

**SITE A VAPOR INTRUSION INVESTIGATION REPORT
NEW BRIGHTON/ARDEN HILLS SUPERFUND SITE**

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Prepared for:

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Twin Cities Army Ammunition Plant
470 Hwy 96 West, Suite 100
Shoreview, Minnesota 55126**

**FEBRUARY 2014
FINAL REPORT**

WENCK ASSOCIATES, INC.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

February 20, 2014

REPLY TO THE ATTENTION OF: SR-6J

Mr. Michael R. Fix
Commander's Representative
Twin Cities Army Ammunition Plant
470 West Highway 96 - Suite 100
Shoreview, MN 55126-3218

Subject: **Consistency Test for the Site A Vapor Intrusion Investigation Report, New Brighton/Arden Hills Superfund Site**

Dear Mr. Fix:

The U.S. Environmental Protection Agency (EPA) and the Minnesota Pollution Control Agency (MPCA) have completed review of the subject **Site A Vapor Intrusion Investigation Report, New Brighton/Arden Hills Superfund Site**. Our review included review of the following documentation:

1. Site A Vapor Intrusion Investigation Report, New Brighton/Arden Hills Superfund Site, Draft-Final Report, December 2013;
2. MPCA comments (January 22, 2014) and Army responses/redline revisions (February 6, 2014);
3. USEPA comments (January 23, 2014) and Army responses/redline revisions (February 6, 2014);

Based upon the referenced documentation and the changes and redline revisions indicated in the responses to the regulators' comments, EPA and MPCA have determined that, in accordance with Chapter XIV of the TCAAP Federal Facility Agreement, the Site A Vapor Intrusion Investigation Report, New Brighton Arden Hills Superfund Site passes the Consistency Test.

If you have any questions, please contact Tom Barounis of the EPA at (312) 353-5577 or Amy Hadiaris of the MPCA at (651) 757-2402.

Sincerely,

Tom Barounis
Remedial Project Manager
U.S. Environmental Protection Agency

for Amy Hadiaris
Project Manager
Minnesota Pollution Control Agency

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List of Acronyms

Army	-	United States Army
COC	-	Chemical of Concern
CSM	-	Conceptual Site Model
FFA	-	Federal Facility Agreement
FY	-	Fiscal Year
GPS	-	Global Positioning System
IRIS	-	Integrated Risk Information System
ISV	-	Intrusion Screening Value
LCS	-	Laboratory Control Sample
LNAPL	-	Light Non-Aqueous Phase Liquid
µg/L	-	Micrograms per Liter
µg/m ³	-	Micrograms per Cubic Meter
MDH	-	Minnesota Department of Health
MNA	-	Monitored Natural Attenuation
MNARNG	-	Minnesota Army National Guard
MPCA	-	Minnesota Pollution Control Agency
MS	-	Matrix Spike
MS/MSD	-	Matrix Spike / Matrix Spike Duplicate
NPL	-	National Priorities List
OU	-	Operable Unit
PPB	-	Parts per Billion
QA	-	Quality Assurance
QAPP	-	Quality Assurance Project Plan
QC	-	Quality Control
RL	-	Reporting Limit
ROD	-	Record of Decision

List of Acronyms (cont'd)

RPD	-	Relative Percent Difference
TCAAP	-	Twin Cities Army Ammunition Plant
USEPA	-	United States Environmental Protection Agency
VOC	-	Volatile Organic Compound
Wenck	-	Wenck Associates, Inc.

1.0 Introduction

This report documents a soil vapor investigation conducted in the vicinity of Site A at the New Brighton/Arden Hills Superfund Site, associated with the Twin Cities Army Ammunition Plant (TCAAP). The purpose of the investigation was to acquire definitive soil vapor results relative to the volatile organic compound (VOC) contamination at Site A, and thus determine the potential for any vapor intrusion into residences located along the north side of County Road I. A vapor intrusion report had been prepared previously: *Off-TCAAP Vapor Intrusion Pathway Analysis, Operable Unit 1, Operable Unit 3, and Operable Unit 2 (Site A)*, prepared by Tecumseh/Wenck Installation Support Services, May 2005. This report concluded that the vapor intrusion pathway for the off-Site Site A plume is incomplete, since the concentrations in groundwater were below the U.S. Environmental Protection Agency (USEPA) generic screening criteria. However, in December 2012, the Minnesota Pollution Control Agency (MPCA) requested that soil gas sampling be conducted since their 2008/2010 vapor intrusion guidance is newer than the 2005 report, and since that guidance states that groundwater screening levels should not be used as a single line of evidence for decisions regarding vapor intrusion risk. Based on this MPCA request, the Army conducted the investigation work described herein.

1.1 TCAAP BACKGROUND

TCAAP was constructed between August 1941 and January 1943 in the northern portion of the Minneapolis – St. Paul metropolitan area, in Ramsey County, and is surrounded by the cities of New Brighton, Arden Hills, Mounds View, and Shoreview, Minnesota (Figure 1-1).

TCAAP primarily produced and proof-tested small-caliber ammunition and related materials for the Army. Other uses included manufacture of munitions-related components, handling/storage of strategic and critical materials for other government agencies, and various non-military tenant

activities. Production began in 1942 and then alternated between periods of activity and standby related to wars. The last manufacturing operations ceased in 2005.

During periods of activity, solvents were utilized as part of some manufacturing operations. Disposal of solvents and other wastes at the TCAAP property resulted in soil contamination and also groundwater contamination, which has migrated beyond the original TCAAP boundary. Groundwater contamination was first discovered in July 1981, which led to investigation of the soil and groundwater on and off the TCAAP property. It was determined that TCAAP was the source of contamination, and so the TCAAP property and area of affected groundwater contamination was placed on the National Priorities List (NPL) in 1983 as the New Brighton/Arden Hills Superfund Site.

Since 1983, when the New Brighton/Arden Hills Superfund Site was placed on the NPL, the size of TCAAP has periodically shrunk as a result of property transfers. Some property has been transferred out of federal-ownership to Ramsey County and the City of Arden Hills. Other property is still owned by the federal government, but control has been reassigned to the Army Reserve or the National Guard Bureau. The National Guard Bureau has licensed the property it controls to the Minnesota Army National Guard (MNARNG). Figure 1-2 shows the property presently under federal ownership, along with the organizations responsible for control. These property transfers do not alter the responsibilities of the U.S. Army under the Federal Facility Agreement (FFA), signed in 1987 between the Army, the USEPA, and the MPCA.

Operable Unit 2 (OU2) includes all soil, sediment, surface water, and groundwater contamination on the original TCAAP property (Figure 1-1). A number of known and potential contaminant source areas have been identified on the original TCAAP property, including Site A.

1.2 SITE A BACKGROUND

Site A is located on the property licensed to the MNARNG, as shown on Figure 1-2.

Shallow groundwater at Site A has been impacted by VOCs and antimony. The selected remedy in the OU2 Record of Decision (ROD) incorporates the use of a groundwater extraction system, which began operation May 31, 1994. The groundwater system was shut off (with regulatory approval) on September 4, 2008, while implementation of Monitored Natural Attenuation (MNA) is evaluated as a potential remedy component in lieu of groundwater extraction and discharge. The groundwater system has not been removed and will be kept in place in the event that MNA does not adequately control plume migration and one or more extraction wells need to be restarted. The decision to proceed with MNA was based in part on the June 2000 MPCA and USEPA natural attenuation study at this site, and also on follow-up MPCA/USEPA microcosm studies that have verified that abiotic degradation of VOCs in Site A groundwater is occurring at substantial rates. Such degradation acts to reduce contaminant mass and mobility by breaking down the contaminants as they move downgradient. The decision to proceed with MNA was also based on the absence of any likely receptors. The closest potential groundwater receptor is located approximately 1,000 feet downgradient from 01U352 (EW-2) and 01U353 (EW-3), and this domestic well has not been operable for many years (and even when it was, the water was only used for irrigation purposes). Beyond this unlikely receptor, there are no other existing downgradient receptors between it and Rice Creek, which is approximately 1,800 feet away.

The Conceptual Site Model (CSM) is that VOCs in groundwater may be a source for VOCs in the soil vapor in the immediate vicinity of groundwater impacted by VOCs and, if present in soil vapor at sufficiently high levels, may result in vapor intrusion into residences located along the north side of County Road I, most of which presumably have basements. Shallow groundwater is present in the Site A vicinity (Unit 1 aquifer) at a depth of approximately 15 feet below ground surface, and generally flows to the west/northwest as it crosses County Road I. Prior investigation work at Site A determined that the source of VOC contamination was the “1945 Trench”. Remediation of the VOC-contaminated soils in the source area was completed in FY 2003, with 688 cubic yards of contaminated soil excavated and transported off-site to a

permitted disposal facility (see Figures 1-3 and 1-4 for the location of the soil excavation area at the former 1945 Trench). The Site A Former 1945 Trench Closeout Report received regulatory consistency in FY 2004. Hence, the groundwater VOC plume is the expected potential source area for VOCs in soil vapor. Soils above the water table are generally described as silty sand or sand, which would allow for movement of soil vapor. Available information on buried utilities in the vicinity is included in Appendix A. This information suggests that utility corridors do not provide any preferential vapor migration pathways of concern. There are no water main or sanitary sewer lines located along County Road I between Fairview Avenue and Aldine Street, which eliminates the potential vapor migration pathway where vapor follows residential service lines extending from sanitary sewer lines or water mains directly up to the point of service line entry into a residence. Also, no storm sewer lines are present along County Road I. The only utility that presents a potential vapor migration pathway is the City of St. Paul water lines (two 60-inch pipes). However, these lines run only in an east-west direction for a long distance, and even if vapor were to migrate within these pathways, there are no “branches” or services lines extending from these lines into the residential area, hence no migration pathway of concern exists.

In the Unit 1 groundwater at Site A, tetrachloroethene and trichloroethene continue to be degraded to cis-1,2-dichloroethene via natural attenuation (likely through an abiotic process involving the presence of the mineral magnetite in soils). This degradation generally occurs within the distance between the source area and the first line of extraction wells (EW-1 through 4). Figure 1-3 indicates that in June 2013, tetrachloroethene only exceeded 1 microgram per liter ($\mu\text{g/L}$) in wells upgradient from the first line of recovery wells, with only one result exceeding the cleanup level of $7 \mu\text{g/L}$ (01U126 at $8.9 \mu\text{g/L}$). Trichloroethene results are very low throughout the plume, never exceeding $4 \mu\text{g/L}$ in June 2013 (see Table 1-1), and well below the groundwater cleanup level of $30 \mu\text{g/L}$. Cis-1,2-dichloroethene continues to be degraded as the plume migrates. In June 2013, the maximum cis-1,2-dichloroethene concentration was $510 \mu\text{g/L}$ at 01U139 (Figure 1-4). On the north side of County Road I, the only Site A VOC detected in wells 01U901 through 904 was cis-1,2-dichloroethene, with the highest detection being $57 \mu\text{g/L}$ at 01U904 (versus the groundwater cleanup level of $70 \mu\text{g/L}$).

1.3 INVESTIGATION QAPP

The planned sampling locations and the field and analytical procedures were described in the *Quality Assurance Project Plan for Site A Vapor Intrusion Investigation* (Wenck, Revision 2, June 4, 2013). Investigation work was conducted in accordance with this Quality Assurance Project Plan (QAPP), which was approved by the USEPA and MPCA on June 17, 2013.

2.0 Investigation Results

2.1 SAMPLING PROCEDURES

The sampling procedures are described in greater detail in Appendix B. In summary, 10 soil gas probes were installed along the north side of County Road I to facilitate soil gas sample collection (Figure 2-1). The locations were placed on approximately 100-foot centers, though Locations 8 and 9 were adjusted slightly due to the presence of thick tree cover. These locations extend beyond the edges of the cis-1,2-dichloroethene plume in both directions. Soil gas samples were grab samples collected at a depth of 6 feet below ground surface, which complies with MPCA guidance. This guidance suggests sample collection at least 3 feet below ground surface and not less than 2 feet above the water table, and notes that soil gas samples are typically collected at depths from 3 to 8 feet. The depth of 6 feet placed the sample collection location at approximately half the depth to groundwater, which is approximately 15 feet. The line of probes was located as far north as possible without having to be located on the parcels of individual residences, which would have greatly complicated property access (many different property owners would have been involved).

In addition to the above line of probes, to provide an indication of soil gas concentrations in a worst-case area, one soil gas sample was collected approximately 10 feet west of the highest cis-1,2-dichloroethene concentration in groundwater in the June 2013 sampling event (well 01U139). Also, to provide additional data south of County Road I, three soil gas samples were collected along the northern edge of TCAAP, just inside the fence and within the plume footprint. The probe depth for sampling these four locations was also 6 feet (grab sample).

Soil gas samples were collected using Summa Canisters, with analysis for VOCs by EPA Method TO-15 by Pace Analytical Services, Minneapolis, Minnesota. The list of VOCs analyzed included the 6 Site A shallow groundwater Chemicals of Concern (COCs) that are

chlorinated: cis-1,2-dichloroethene, trichloroethene, tetrachloroethene, 1,1-dichloroethene, 1,2-dichloroethane, and chloroform. Of these, cis-1,2-dichloroethene is of primary importance given that it is the only VOC detected in groundwater on the north side of County Road I. Among the 7 VOCs that are Site A groundwater COCs, one petroleum-related compound (benzene) was not analyzed, since it was deemed far more likely to be related to an unknown (non-TCAAP) petroleum source along County Road I (i.e., contamination resulting from road or utility construction and/or general road use). Benzene is not a primary COC at Site A. The majority of wells have no detectable benzene and it is not detectable in any of the wells north of County Road I. Lastly, though it is not a COC in groundwater, vinyl chloride was added to the list of reported analytes, since it is a potential degradation product of other chlorinated VOCs.

2.2 INVESTIGATION RESULTS

The soil gas sampling at the 14 locations shown on Figure 2-1 was conducted by Wenck (and a soil probe subcontractor) on July 22 and 23, 2013. Analytical results are shown in Table 2-1. For reference, this table also shows the applicable action levels for each VOC. As identified in the approved QAPP, the action levels shown in this table are the MPCA Residential 10X Intrusion Screening Values (ISVs) that are used for soil gas risk evaluations. Values below 10X the ISVs are not considered to pose a risk to receptors. The following should also be noted:

- 1) The MPCA does not have a Residential X10 ISV for cis-1,2-dichloroethene. MPCA has recommended using 600 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) as a screening value for the Residential X10 ISV, which uses trans-1,2-dichloroethene as a surrogate.
- 2) The MPCA has recommended using an interim trichloroethene Residential X10 ISV of $20 \mu\text{g}/\text{m}^3$ in vapor intrusion investigations, due to recent changes to trichloroethene toxicity values in the USEPA's Integrated Risk Information System (IRIS).
- 3) Vinyl chloride is not a COC in Site A groundwater; however, the MPCA requested that vinyl chloride also be reported since it is a potential degradation product of other chlorinated VOCs.

The results shown in Table 2-1 suggest that no significant VOC concentrations are present in soil gas in the vicinity of the 14 samples collected. With the exception of tetrachloroethene, no analytes were detected in any of the 14 samples. Tetrachloroethene was detected in every sample at an extremely uniform concentration of approximately 4 to 7 $\mu\text{g}/\text{m}^3$; however, these detections do not appear to be real. First, the tetrachloroethene concentrations are far too uniform to actually exist in the environment across these 14 widely-spaced sample locations. Second, cis-1,2-dichloroethene was detected in groundwater in many of the wells in the soil gas sampling vicinity, and yet was consistently not detectable in all of the soil vapor samples; and conversely, tetrachloroethene, which was not detectable in groundwater in any of the wells in the soil gas sampling vicinity, had all soil vapor samples show its detection. This significant inconsistency cannot be explained, suggesting that these tetrachloroethene detections do not reflect actual concentrations in soil gas at Site A. It seems most likely that the reported tetrachloroethene detections reflect a field or laboratory source of contamination. The laboratory reviewed their available information for this sample set with regard to any potential laboratory source of contamination/carryover, and they have indicated that they found no definitive evidence of that. Wenck also researched the possibility of detecting tetrachloroethene due to contamination from polyethylene tubing, which was used to connect the soil gas probe to each Summa Canister that was used to collect a sample. In one study (Hayes et al., 2006), air was drawn through a short segment of polyethylene tubing and then analyzed for VOCs, and this study found 0.2 parts per billion (ppb) tetrachloroethene (0.2 ppb is approximately 1.4 $\mu\text{g}/\text{m}^3$). This result is relatively close to the uniform detection levels shown in Table 2-1. Given a uniform sampling depth (6 feet), and hence a uniform length of tubing, a relatively uniform detection of tetrachloroethene could potentially have resulted from the tubing itself. Finally, while the tetrachloroethene detections appear to be an artifact (contamination) from either a field or laboratory source, even if the tetrachloroethene detections were actually present in Site A soil gas, the 4 to 7 $\mu\text{g}/\text{m}^3$ level is approaching two orders of magnitude below the tetrachloroethene soil gas action level of 200 $\mu\text{g}/\text{m}^3$ (Residential x10 ISV), which would support a conclusion that there is no significant soil vapor risk due to tetrachloroethene.

The reason cis-1,2-dichloroethene could not be detected in soil gas (even though frequently detected in groundwater) is most likely due to the suspected presence a layer of “clean water” (i.e., containing no VOCs) at the top of the Unit 1 aquifer. While there are no actual nested monitoring wells at the site, the well screen for 01U125 only extends a few feet into the top of the Unit 1 aquifer, versus the well screens for most Site A monitoring wells which either fully (or nearly fully) penetrate the aquifer. Sampling of 01U125 was ceased in 1999 precisely because it only penetrated the upper few feet and because its water quality results between 1987 and 1999 (i.e., consistently non-detect) did not match other higher-concentration wells in the immediate vicinity. A clean layer of water at the top of a surficial aquifer (when it is not an LNAPL site) can easily occur as groundwater travels downgradient from a source area, since ongoing infiltration of precipitation continually adds clean water to the top. If such a clean layer does exist on the north side of County Road I, which is a considerable distance downgradient in terms of precipitation “building up” this layer, it can act as an effective barrier to the upward migration of contaminant vapors from the “underlying” VOC plume (as noted on Page 9 of the MPCA 2010 Vapor Intrusion Technical Support Document).

2.3 DATA USABILITY

Sampling and analysis were conducted in accordance with the QAPP (Wenck, 2013). Refer to this QAPP for details regarding sampling/analytical methods and procedures. All samples collected for this project were analyzed by Pace Analytical Services at their Minneapolis, Minnesota location. Pace Analytical Services is a certified environmental laboratory with the Minnesota Department of Health (MDH). The analytical report is included in Attachment B.2 of Appendix B.

All of the analytical data (100%) was validated by Diane Short & Associates, Lakewood, Colorado (see Appendix B). The Wenck data usability assessment, which provides an overall assessment of the usability of the data collected for this project, is provided in Appendix B. Based on this data usability assessment, the project data are deemed to have met the data quality

objectives specified in the QAPP and to be fully usable for the purpose of determining that VOC concentrations in soil vapor on the north side of County Road I are less than 10 times the MPCA Residential ISVs. No data was rejected, and no data qualifiers were applied.

3.0 Conclusions

Based on the Site A vapor intrusion investigation results presented herein, the following conclusions are made:

- All soil gas results were well below the MPCA Residential 10X Intrusion Screening Values (ISVs) that are used for soil gas risk evaluations. Values below 10X the ISVs are not considered to pose a risk to receptors, per the MPCA 2008/2010 vapor intrusion guidance.
- The soil gas results shown in Table 2-1 suggest that no significant VOC concentrations are present in soil gas in the vicinity of the 14 samples collected. With the exception of tetrachloroethene, no analytes were detected in any of the 14 samples.
- The low detections of tetrachloroethene appear to be an artifact (contamination) from either a field or laboratory source. However, even if the tetrachloroethene detections were actually present in Site A soil gas, the 4 to 7 $\mu\text{g}/\text{m}^3$ level is approaching two orders of magnitude below the tetrachloroethene soil gas action level of 200 $\mu\text{g}/\text{m}^3$ (Residential x10 ISV), which would support a conclusion that there is no significant soil vapor risk due to tetrachloroethene.
- No further vapor intrusion investigation work is warranted.

4.0 References

Hayes, H. C., D. J. Benton, and N. Khan, September 2006. *Impact of Sampling Media on Soil Gas Measurements.*

Minnesota Pollution Control Agency and U.S. Environmental Protection Agency, June 2000. *Evaluation of Natural Attenuation of Chlorinated Solvents in Ground Water at the Twin Cities Army Ammunition Plant – Site A.*

Minnesota Pollution Control Agency, September 2008. *Risk-Based Guidance for the Vapor Intrusion Pathway.* (Including February 2009 ISV Update)

Minnesota Pollution Control Agency, August 2010. *Vapor Intrusion Technical Support Document.*

Shaw Environmental, Inc., January 2004. *Final Remedial Action Completion and Shallow Soil Sites Close Out Report, Volume VIII – Site A Former 1945 Trench Activities. Revision 2.*

Tecumseh/Wenck Installation Support Services, May 2005. *Off-TCAAP Vapor Intrusion Pathway Analysis, Operable Unit 1, Operable Unit 3, and Operable Unit 2 (Site A).*

Wenck Associates, Inc., June 4, 2013. *Quality Assurance Project Plan, Site A Vapor Intrusion Investigation. Revision 2.*

Tables

**Table 1-1
Site A Groundwater Quality Data**

Fiscal Year 2013

Site A Vapor Intrusion Investigation

		Tetra- chloro- ethene (µg/l)	Tri- chloro- ethene (µg/l)	cis-1,2-Di- chloro- ethene (µg/l)	1,1-Di- chloro- ethene (µg/l)	1,2-Di- chloro- ethane (µg/l)	Chloro- form (µg/l)	Benzene (µg/l)	Antimony (µg/l)
Site A Cleanup Level ⁽¹⁾		7	30	70	6	4	60	10	6
01U039	12/19/12	<1	<1	<1	<1	<1	<1	<1	---
01U039	6/26/13	<1	<1	<1	<1	<1	<1	<1	---
01U102	6/25/13	JP 0.72	<1	<1	<1	<1	<1	<1	---
01U103	6/25/13	<1	<1	<1	<1	<1	<1	<1	2.8
01U103	D 6/25/13	---	---	---	---	---	---	---	2.9
01U108	6/25/13	JP 0.72	<1	<1	<1	<1	<1	<1	---
01U115	6/26/13	<1	JP 0.44	2.3	<1	<1	<1	<1	---
01U115	D 6/26/13	<1	JP 0.45	2.3	<1	<1	<1	<1	---
01U116	6/26/13	<1	JP 0.94	JP 0.66	<1	<1	<1	<1	---
01U117	6/25/13	2.2	1.4	15	<1	<1	<1	<1	---
01U126	6/25/13	8.9	4.0	<1	<1	<1	<1	<1	---
01U138	6/25/13	<1	JP 0.50	<1	<1	<1	<1	<1	---
01U139	12/19/12	<1	1.5	400	JP 0.44	<1	<1	9.5	---
01U139	6/27/13	<1	1.1	510	JP 0.76	<1	<1	16	---
01U140	12/19/12	<1	<1	82	<1	<1	<1	JP 0.75	---
01U140	6/26/13	<1	<1	59	<1	<1	<1	JP 0.72	---
01U140	D 6/26/13	<1	<1	59	<1	<1	<2	JP 0.63	---
01U157	12/19/12	<1	1.6	96	<1	<1	<1	JP 0.55	---
01U157	6/26/13	<1	1.7	31	<1	<1	<1	JP 0.30	---
01U157	D 6/26/13	<1	1.8	32	<1	<1	<1	<1	---
01U158	12/19/12	<1	JP 0.92	58	<1	<1	<1	JP 0.77	---
01U158	6/27/13	<1	1.2	54	<1	<1	<1	JP 0.73	---
01U158	D 6/27/13	<1	1.2	55	<1	<1	<1	JP 0.73	---
01U350	6/25/13	2.8	JP 0.75	<1	<1	<1	<1	<1	---
01U901	12/18/12	<1	<1	<1	<1	<1	<1	<1	---
01U901	6/24/13	<1	<1	<1	<1	<1	<1	<1	---
01U902	12/18/12	<1	<1	8.3	<1	<1	<1	<1	---
01U902	6/24/13	<1	<1	15	<1	<1	<1	<1	<1
01U903	6/24/13	<1	<1	<1	<1	<1	<1	<1	---
01U904	12/18/12	<1	<1	32	<1	<1	<1	<1	---
01U904	6/24/13	<1	<1	57	<1	<1	<1	<1	<1

**Table 1-1
Site A Groundwater Quality Data**

Fiscal Year 2013

Site A Vapor Intrusion Investigation

		Tetra- chloro- ethene (µg/l)	Tri- chloro- ethene (µg/l)	cis-1,2-Di- chloro- ethene (µg/l)	1,1-Di- chloro- ethene (µg/l)	1,2-Di- chloro- ethane (µg/l)	Chloro- form (µg/l)	Benzene (µg/l)	Antimony (µg/l)
Site A Cleanup Level ⁽¹⁾		7	30	70	6	4	60	10	6
<u>Extraction Wells:</u>									
01U351 (EW-1)	6/25/13	<1	JP 0.51	JP 0.85	<1	<1	<1	<1	---
01U352 (EW-2)	12/26/12	<1	<1	6.7	<1	<1	<1	<1	---
01U352 (EW-2)	6/26/13	<1	<1	9.2	<1	<1	<1	<1	---
01U353 (EW-3)	12/26/12	<1	JP 0.32	43	<1	<1	<1	JP 0.74	---
01U353 (EW-3) D	12/26/12	<1	<1	42	<1	<1	<1	JP 0.69	---
01U353 (EW-3)	6/26/13	<1	JP 0.51	140	<1	<1	<1	3.5	---
01U354 (EW-4)	12/26/12	<1	JP 0.54	<1	<1	<1	<1	<1	---
01U354 (EW-4)	6/25/13	<1	JP 0.84	<1	<1	<1	<1	<1	---
01U355 (EW-5)	12/26/12	<1	JP 0.89	72	<1	<1	<1	2.4	---
01U355 (EW-5)	6/27/13	<1	JP 0.70	43	<1	<1	<1	1.7	---
01U356 (EW-6)	12/19/12	<1	JP 0.57	78	<1	<1	<1	1.7	---
01U356 (EW-6)	6/27/13	<1	JP 0.67	97	<1	<1	<1	1.6	---
01U357 (EW-7)	12/19/12	<1	<1	80	<1	<1	<1	1.7	---
01U357 (EW-7)	6/26/13	<1	<1	55	<1	<1	<1	1.2	---
01U358 (EW-8)	12/19/12	<1	<1	JP 0.45	<1	<1	<1	<1	---
01U358 (EW-8) D	12/19/12	<1	<1	JP 0.52	<1	<1	<1	<1	---
01U358 (EW-8)	6/26/13	<1	<1	JP 0.49	<1	<1	<1	<1	---

Notes:

- (1) Cleanup levels for Site A Shallow Groundwater are from Table 1 of the OU2 ROD. Bolding (in red color) indicates exceedance of the cleanup level.
- Not Sampled.
- D Duplicate sample.
- JP The value is below the reporting level, but above the method detection limit. Results should be considered estimated.

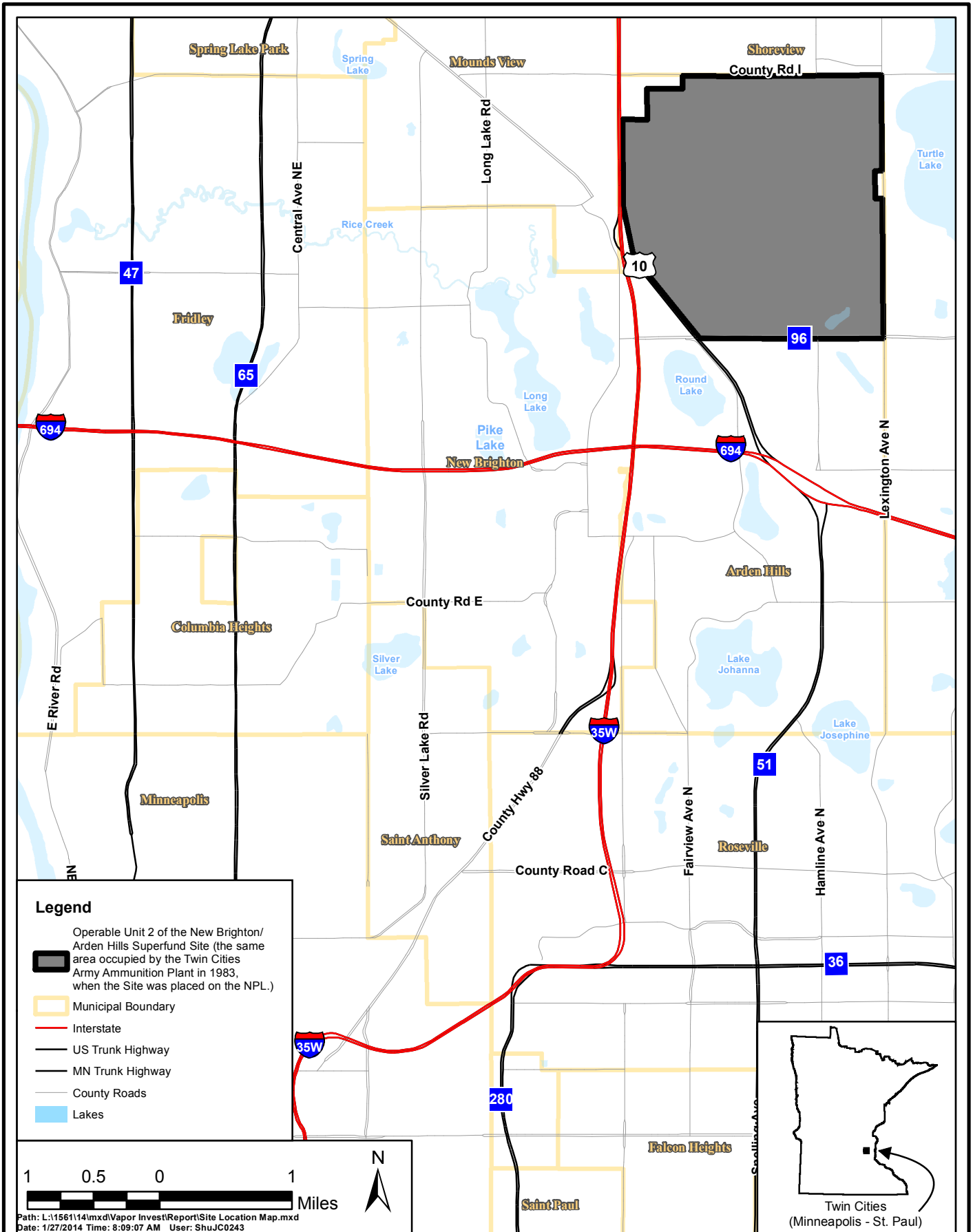
**Table 2-1
Soil Gas VOC Results**

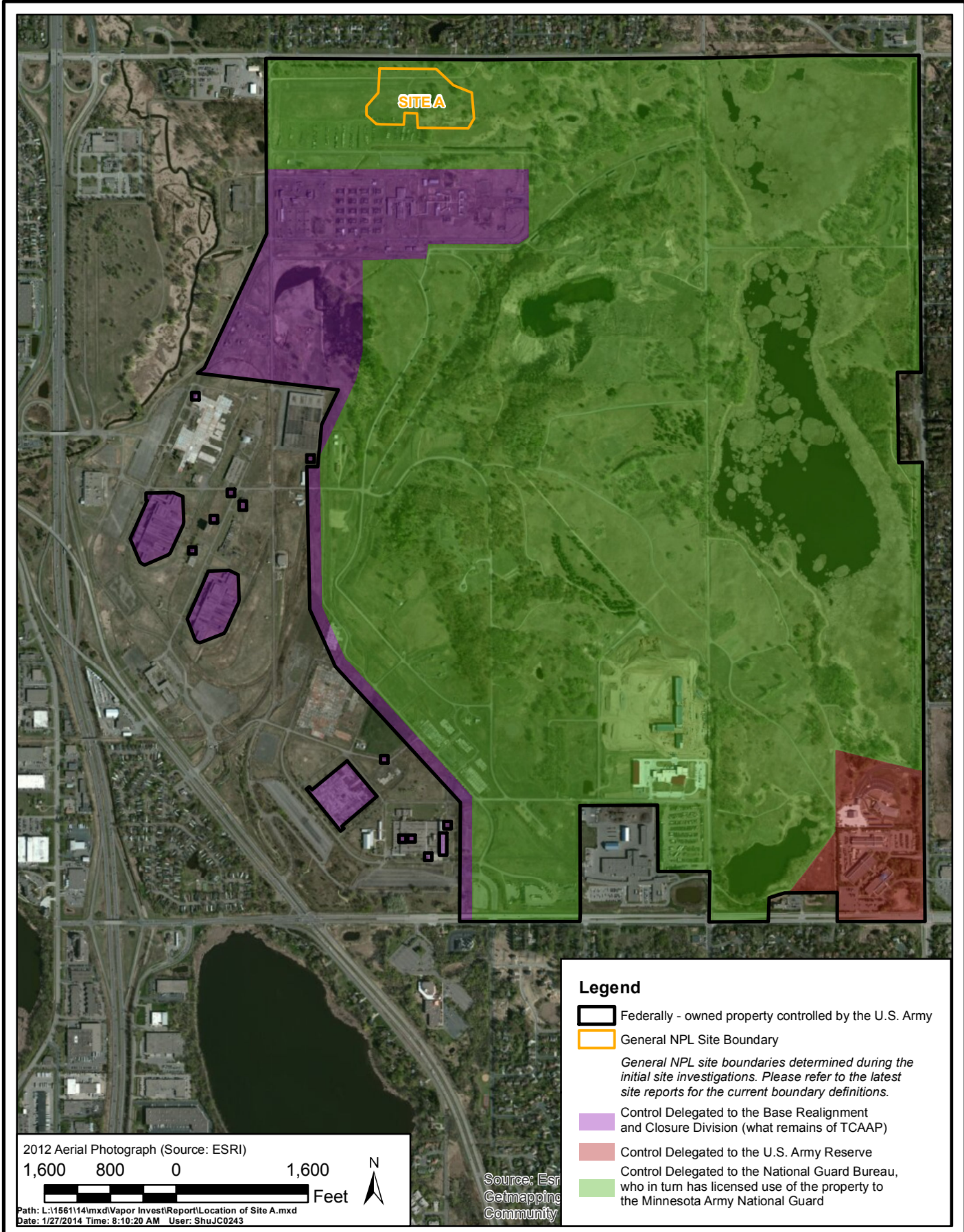
Site A Vapor Intrusion Investigation

Sample Location No.	Field Sample ID	Sample Depth (ft)	Date Collected	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	1,2-Dichloroethane	1,1-Dichloroethene	Chloroform	Vinyl Chloride
Action Level:				200	20	600	4	2,000	1,000	10
1	SG07221301	6	7/22/13	5.4	< 0.79	< 1.2	< 0.59	< 1.2	< 1.4	< 0.37
1 D	SG07221302	6	7/22/13	4.7	< 0.79	< 1.2	< 0.59	< 1.2	< 1.4	< 0.37
2	SG07221303	6	7/22/13	7.2	< 1.1	< 1.6	< 0.82	< 1.6	< 2.0	< 0.52
3	SG07221304	6	7/22/13	5.5	< 0.82	< 1.2	< 0.61	< 1.2	< 1.5	< 0.39
4	SG07221305	6	7/22/13	5.3	< 0.79	< 1.2	< 0.59	< 1.2	< 1.4	< 0.37
5	SG07221306	6	7/22/13	5.8	< 0.79	< 1.2	< 0.59	< 1.2	< 1.4	< 0.37
6	SG07221307	6	7/22/13	5.4	< 0.79	< 1.2	< 0.59	< 1.2	< 1.4	< 0.37
7	SG07221308	6	7/22/13	5.1	< 0.82	< 1.2	< 0.61	< 1.2	< 1.5	< 0.39
8	SG07221309	6	7/22/13	4.9	< 0.79	< 1.2	< 0.59	< 1.2	< 1.4	< 0.37
9	SG07221310	6	7/22/13	5.0	< 0.79	< 1.2	< 0.59	< 1.2	< 1.4	< 0.37
10	SG07221311	6	7/22/13	5.2	< 0.82	< 1.2	< 0.61	< 1.2	< 1.5	< 0.39
11	SG07231301	6	7/23/13	4.3	< 0.79	< 1.2	< 0.59	< 1.2	< 1.4	< 0.37
11 D	SG07231302	6	7/23/13	4.4	< 0.82	< 1.2	< 0.61	< 1.2	< 1.5	< 0.39
12	SG07221314	6	7/22/13	7.3	< 0.89	< 1.3	< 0.66	< 1.3	< 1.6	< 0.42
13	SG07221313	6	7/22/13	5.3	< 0.82	< 1.2	< 0.61	< 1.2	< 1.5	< 0.39
14	SG07221312	6	7/22/13	5.7	< 0.85	< 1.3	< 0.64	< 1.3	< 1.5	< 0.40






Notes:
 Results are $\mu\text{g}/\text{m}^3$
 D = Duplicate
 < = Less than the Reporting Limit (RL)
 Sample Depth = Approximate depth (in feet) below ground surface from which a discrete soil gas sample was collected.
 The Action Level shown is the MPCA Residential 10X Intrusion Screening Value (ISV) appropriate for soil gas risk evaluations. Values below 10X the ISVs are not considered to pose a risk to receptors. Note the following:
 - The MPCA does not have a Residential X10 ISV for cis-1,2-dichloroethene. MPCA has recommended using $600 \mu\text{g}/\text{m}^3$ as a screening value for the Residential X10 ISV, which uses trans-1,2-dichloroethene as a surrogate.
 - The MPCA has recommended using an interim trichloroethene Residential X10 ISV of $20 \mu\text{g}/\text{m}^3$ in vapor intrusion investigations, due to recent changes to trichloroethene toxicity values in the USEPA's Integrated Risk Information System (IRIS).
 - Vinyl chloride is not a Contaminant of Concern in Site A groundwater; however, the MPCA requested that vinyl chloride also be reported since it is a potential degradation product of other chlorinated VOCs.


Figures



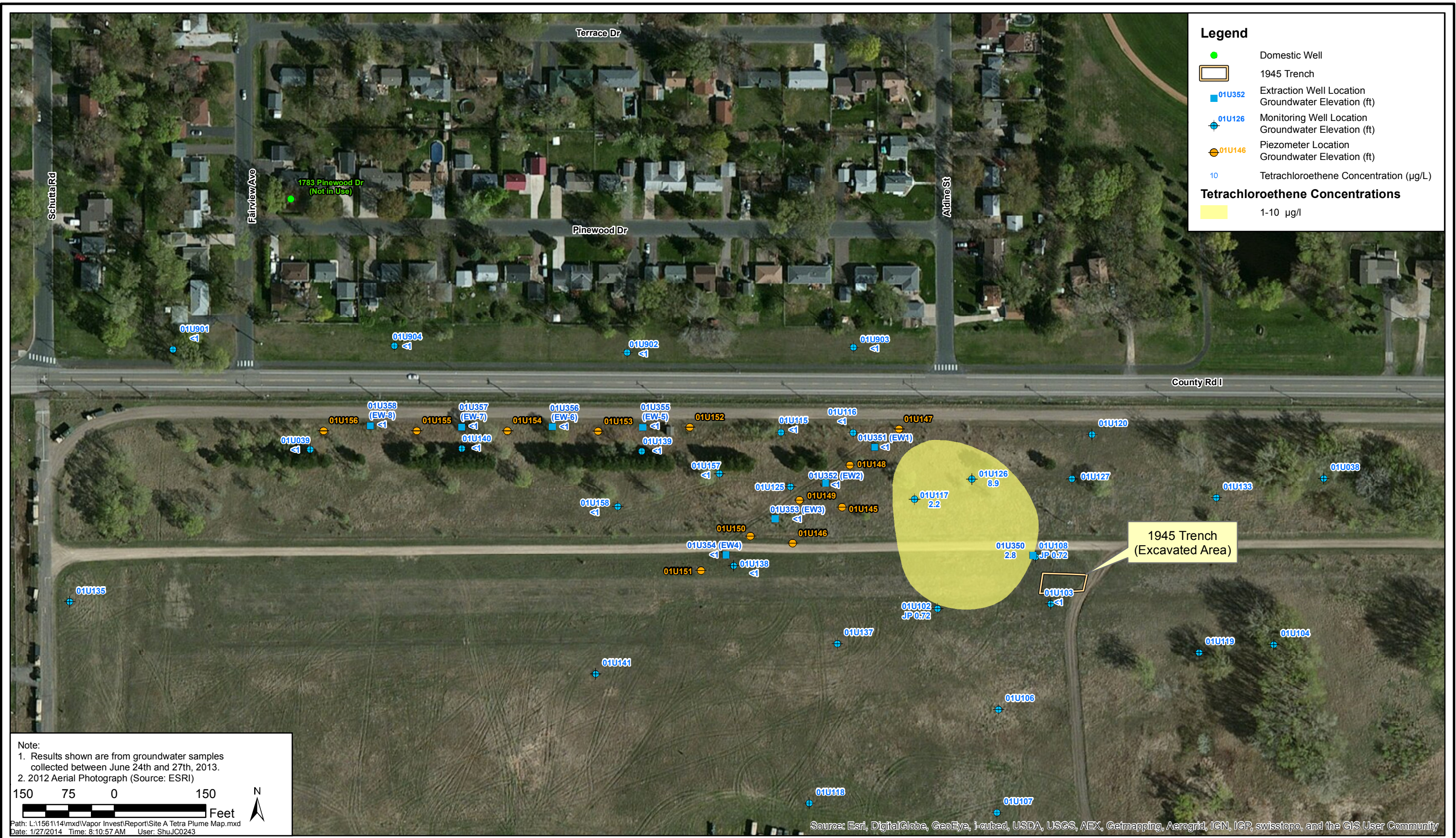


Legend

-  Federally - owned property controlled by the U.S. Army
-  General NPL Site Boundary
- General NPL site boundaries determined during the initial site investigations. Please refer to the latest site reports for the current boundary definitions.*
-  Control Delegated to the Base Realignment and Closure Division (what remains of TCAAP)
-  Control Delegated to the U.S. Army Reserve
-  Control Delegated to the National Guard Bureau, who in turn has licensed use of the property to the Minnesota Army National Guard

2012 Aerial Photograph (Source: ESRI)
 1,600 800 0 1,600 Feet 
 Path: L:\1561\14\mxd\Vapor Invest\Report\Location of Site A.mxd
 Date: 1/27/2014 Time: 8:10:20 AM User: ShuJC0243

Source: Esri
 Getmapping
 Community



SITE A VAPOR INTRUSION INVESTIGATION REPORT

Site A, Unit 1 Groundwater, Tetrachloroethene Isoconcentration Map, Summer 2013



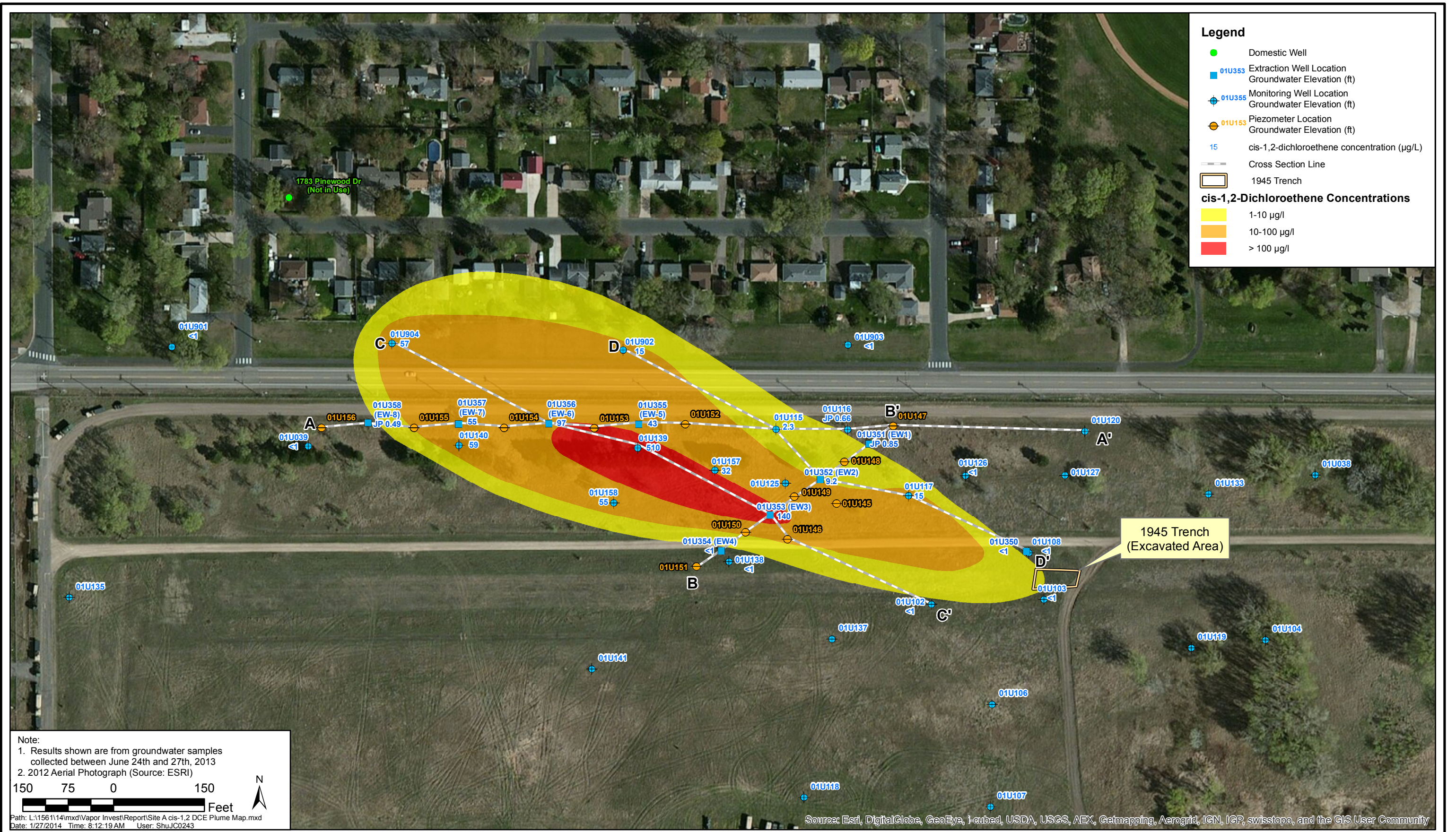
Engineers - Scientists
Business Professionals
www.wenck.com

Wenck

1800 Pioneer Creek Center
Maple Plain, MN 55359-0429
1-800-472-2232

FEB 2014

Figure 1-3



SITE A VAPOR INTRUSION INVESTIGATION REPORT

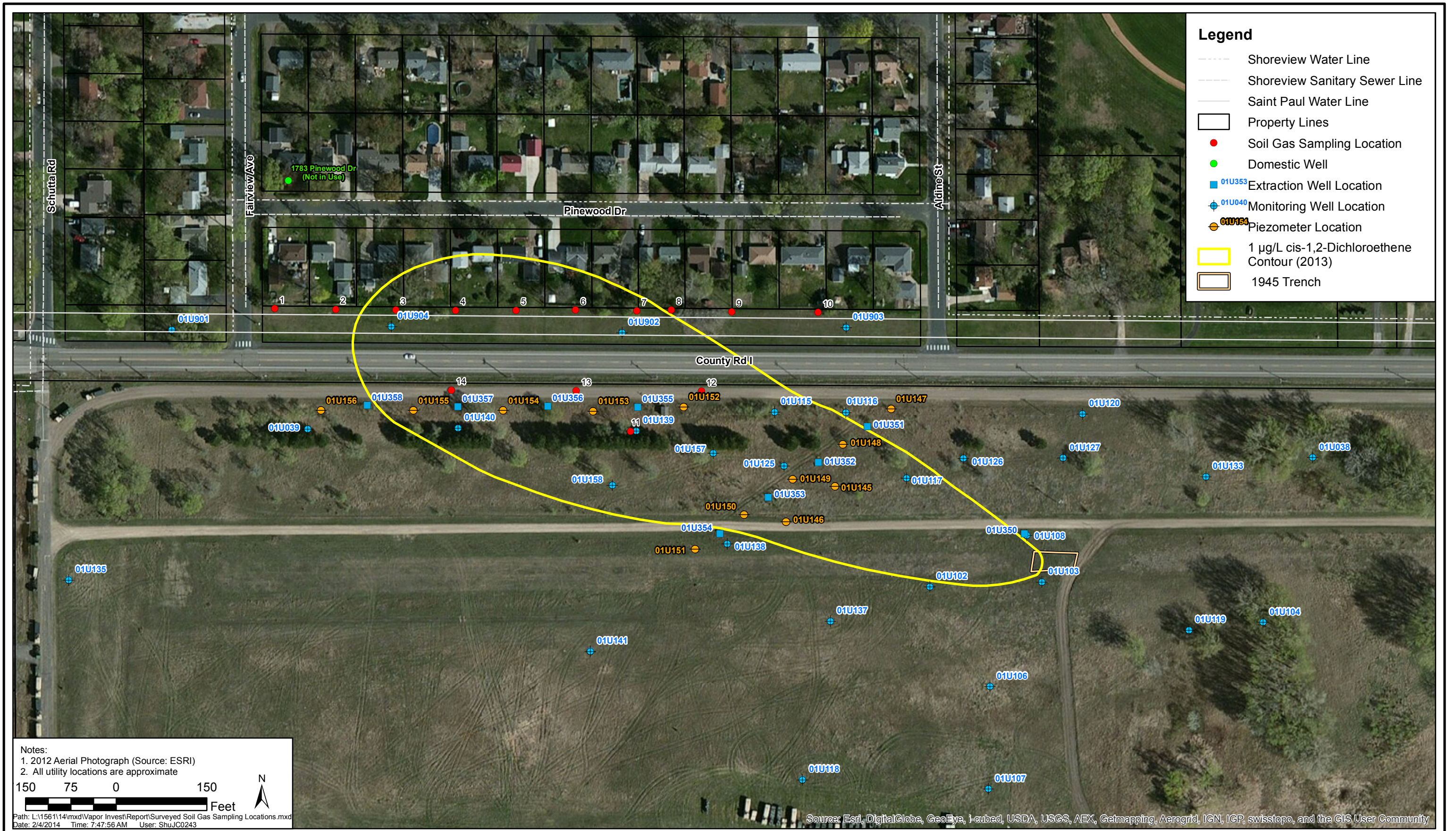
Site A, Unit 1 Groundwater, cis-1,2-Dichloroethene Isoconcentration Map, Summer 2013



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1800 Pioneer Creek Center
Maple Plain, MN 55359-0429
1-800-472-2232

FEB 2014

Figure 1-4



- Legend**
- Shoreview Water Line
 - Shoreview Sanitary Sewer Line
 - Saint Paul Water Line
 - Property Lines
 - Soil Gas Sampling Location
 - Domestic Well
 - 01U353 Extraction Well Location
 - ⊕ 01U040 Monitoring Well Location
 - ⊙ 01U154 Piezometer Location
 - 1 µg/L cis-1,2-Dichloroethene Contour (2013)
 - 1945 Trench

Notes:
 1. 2012 Aerial Photograph (Source: ESRI)
 2. All utility locations are approximate

150 75 0 150
 Feet

Path: L:\156114\mxd\Vapor Invest\Report\Surveyed Soil Gas Sampling Locations.mxd
 Date: 2/4/2014 Time: 7:47:56 AM User: ShuJC0243

Source: Esri, DigitalGlobe, GeoEye, I-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

SITE A VAPOR INTRUSION INVESTIGATION REPORT

Soil Gas Sampling Locations



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 Engineers - Scientists
 Business Professionals
 www.wenck.com

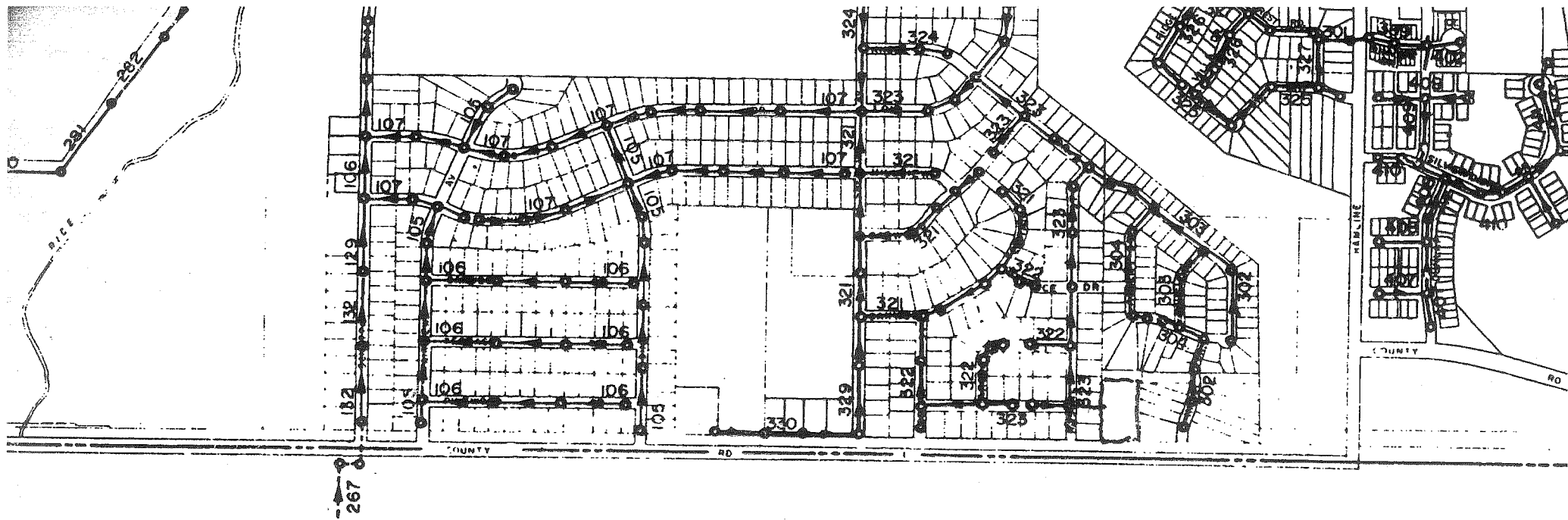
1800 Pioneer Creek Center
 Maple Plain, MN 55359-0429
 1-800-472-2232

FEB 2014

Figure 2-1

Appendix A

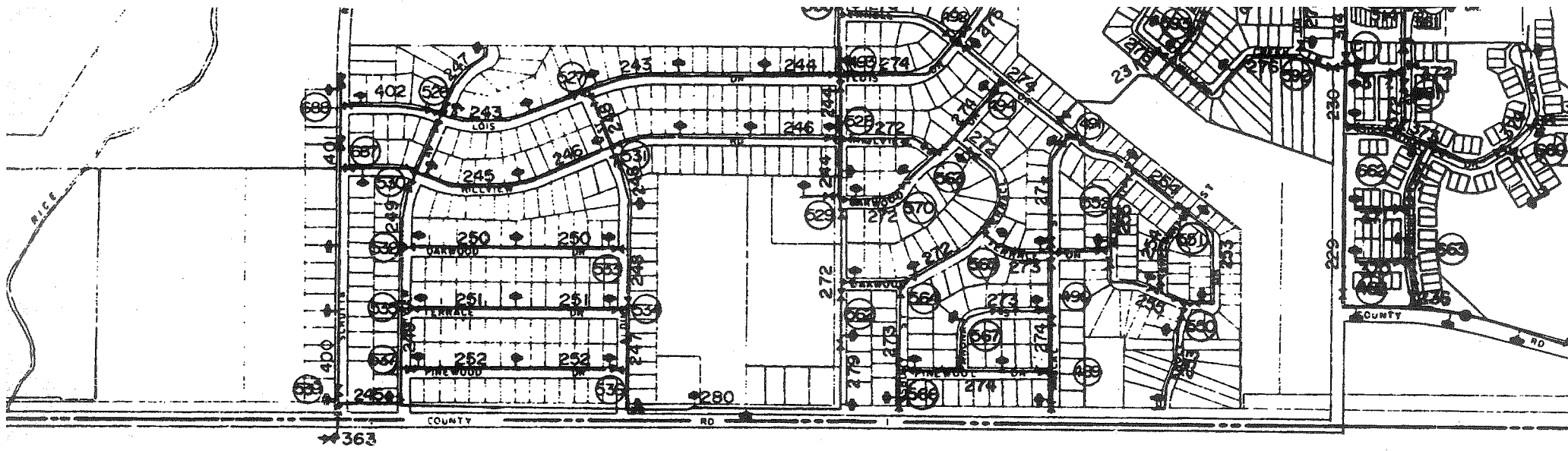
Information on Buried Utilities



SANITARY SEWER INDEX MAP

<u>ET NO.</u>	<u>PROJECT NO.</u>	<u>SHEET NO.</u>	<u>PROJECT NO.</u>
	OTHER ENGINEERS		
	O.S.M.	329-330	77-9A B.R.W.
	65-4A O.S.M.	331-333	82-10 CARLEY
	65-6 & 65-3 O.S.M.	334	82-12 R. NELSON
	66-1A O.S.M.	335-357	82-16 D.C. OLSON
	66-9A O.S.M.	338-340	83-7A S.E.H.
	67-1A O.S.M. 77-4 S.E.H.	341-349	83-9 CARLEY
	68-7 O.S.M. 77-4 S.E.H.	350-355	83-10 D.C. OLSON
	68-9 O.S.M.	356-357	83-24 D.C. OLSON
	68-10 O.S.M.	358	83-26 SUBURBAN
	68-2 & 68-9 O.S.M.	359-372	84-8 MERILA
	68-11 O.S.M.	373-379	84-9, 84-26 D.C. OL
	BRIGADOON PLAT 3 O.S.M	380-381	84-15 WESTWOOD
	68-20 O.S.M.	382-383	84-21 R. NELSON
	CARLEY	384-388	84-23 CARLEY

3
 4
 7
 4
 9-115A
 11-129A
 13
 19



WATER MAIN INDEX MAP

PROJECT NO.

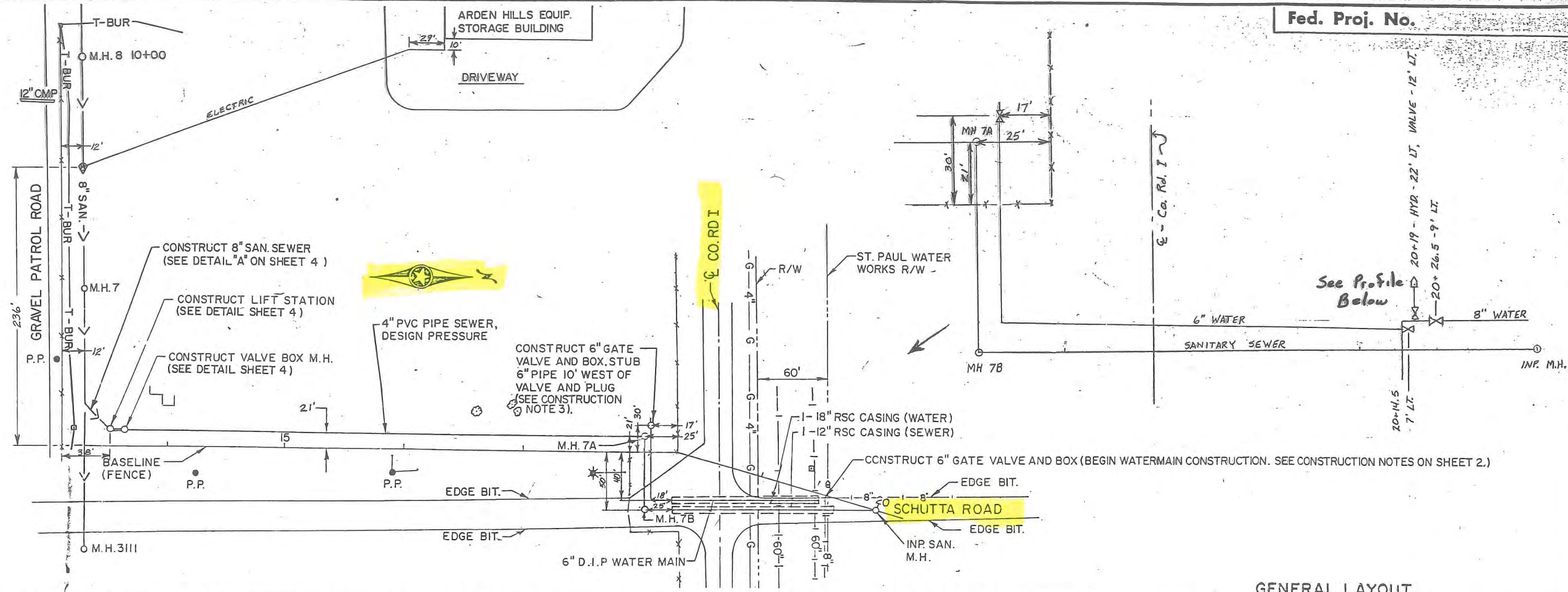
MINN WATER CO.
 MINN WATER CO.
 65-4A O.S.M.
 67-5 O.S.M.
 68-6B O.S.M.
 68-5, 68-19 O.S.M.
 65-14A O.S.M.
 68-12 O.S.M.
 68-1 Ph. B O.S.M.
 BRIGADOON PLAT 3 O.S.M.
 CENTRAL WATER CO.
 68-1 PHASE C O.S.M.
 69-3, 5, 9 & 10 O.S.M.
 70-1 & 70 - 5B O.S.M.
 71-2 O.S.M.
 71-5 O.S.M.
 72-1, 2, 3A O.S.M.
 73-1, 1A, 3, 4A, 4C, 10 O.S.M.
 74-2A-2B-2C 74-4 74-9R 74-1A 74-3 O.S.M.

SHEET NO.

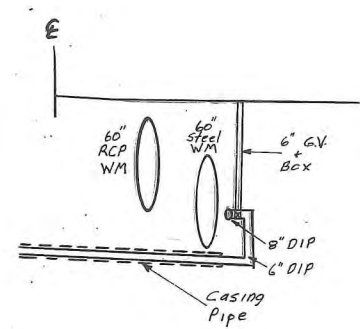
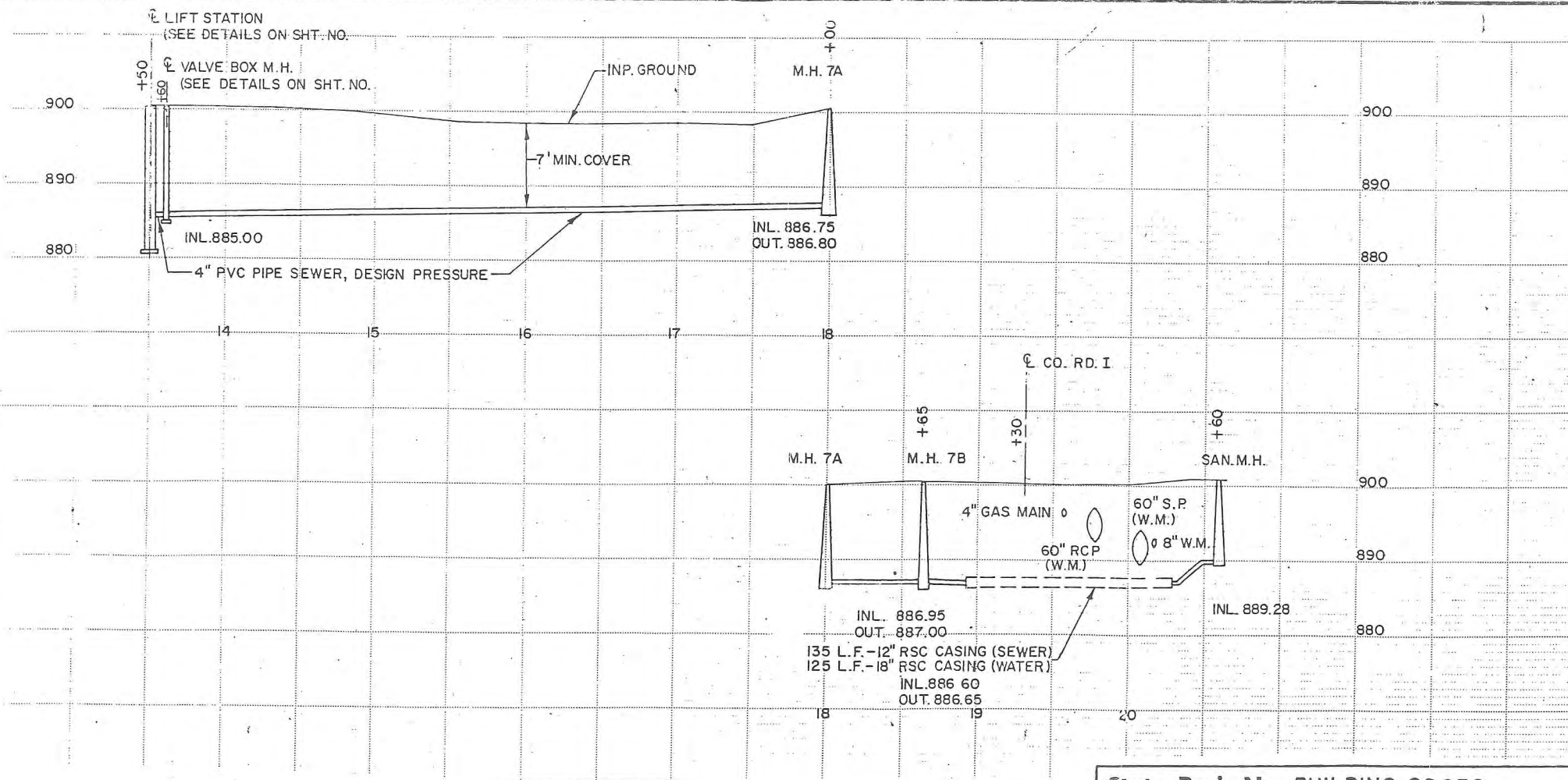
320-332
 333-338
 339-340
 341
 342-346
 347-348
 349
 350
 351
 352
 353
 354
 355-356
 357
 358-360
 361
 362
 363
 364

PROJECT NO.

84-8 MERILA
 84-9 OLSON
 84-15 WESTWOOD
 83-26 SUBURBAN
 84-23 CARLEY
 85-11 CARLEY
 85-10 CARLEY
 84-26 OLSON
 76-5 S.E.H.
 85-20 CARLEY
 85-30 D. BROWN
 85-31 CARLEY
 85-32 SUBURBAN
 86-1 JR. HILL
 86-7 CARLEY
 86-21 MATEFFY
 2-PVD-86 MERILA
 84-24 MNDOT



GENERAL LAYOUT



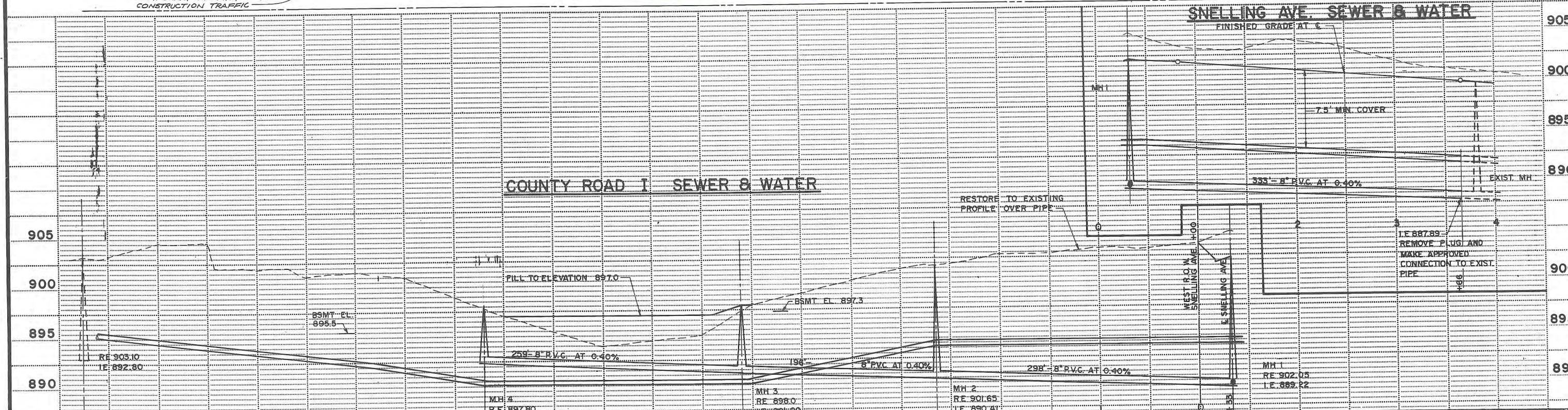
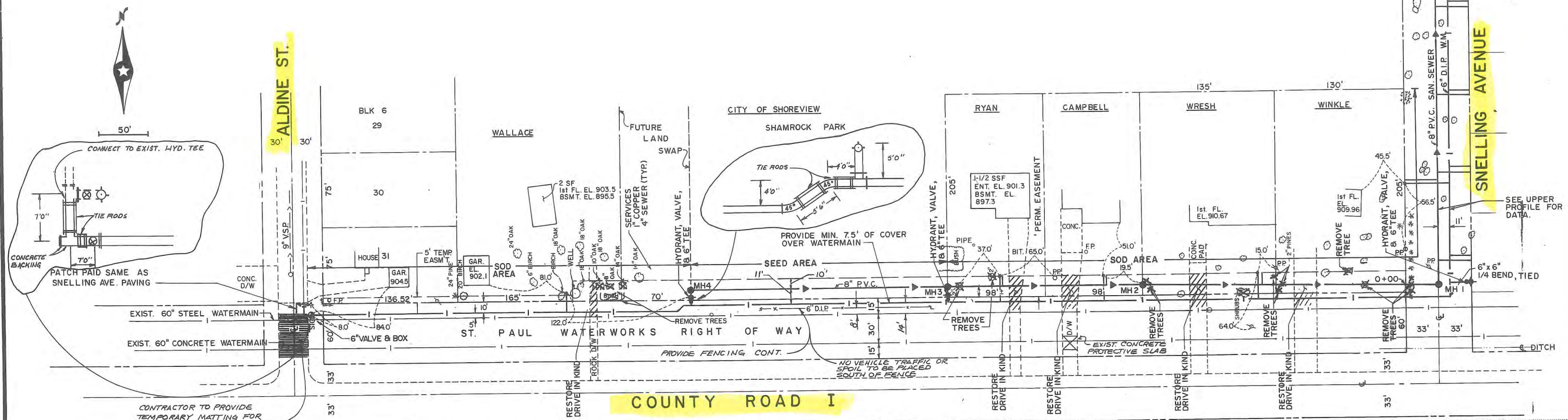
ARDEN HILLS TRAINING CENTER



SEWER PROFILE

ROGER MOHROR
SUPT. OF WATERSUPPLY
298-4266

EXIST. MH
EXIST. 20' STUB
6" VALVE & BOX
REMOVE PLUG & CONNECT TO EXIST. STUB.



AS-BUILT NOTE:
ELEVATION AND TOPO HAS NOT BEEN RESHOT AFTER CONSTRUCTION AND ACCORDINGLY MAY BE ONLY APPROXIMATE

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16.

BRW
Barrett, Ringrose, Wolfeld, Jarvis, Gardner
612-379-7878
Minneapolis, Minnesota

ORIGINAL DATE: 11-23-83
REVISIONS: 12-21-83
3-23-84 2/28/84

SNELLING AVE. IMPROVEMENTS
CITY PROJECT 77-9A
77-9B
SANITARY SEWER AND WATERMAIN

CONTRACTOR: O & P CONTRACTING

Date _____ Minn. Reg. No. _____

S.A.P. NO.

SHEET 4 OF 4

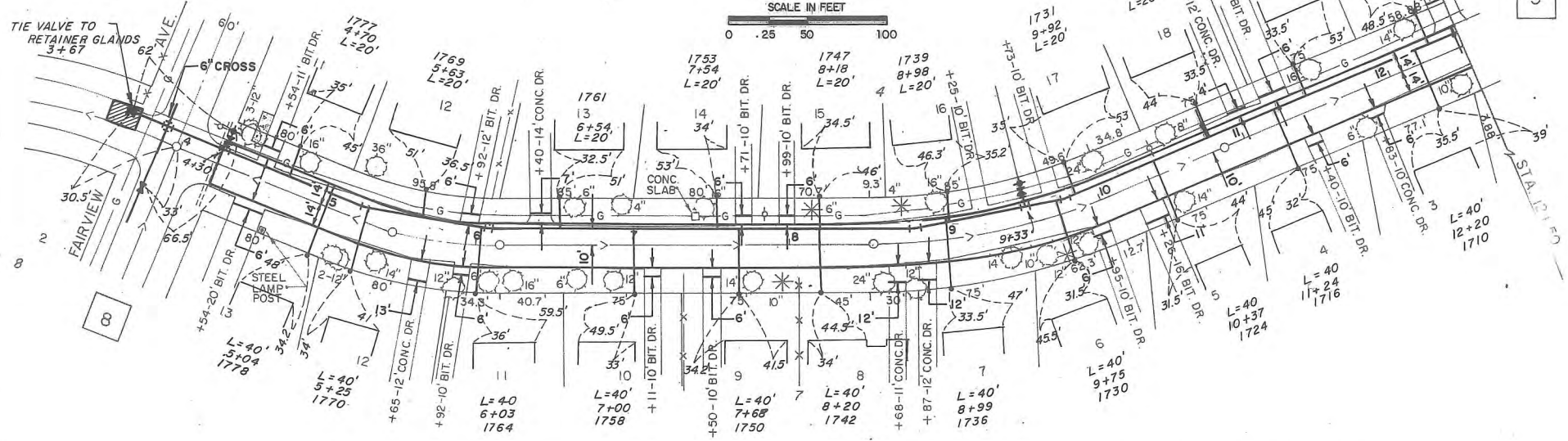
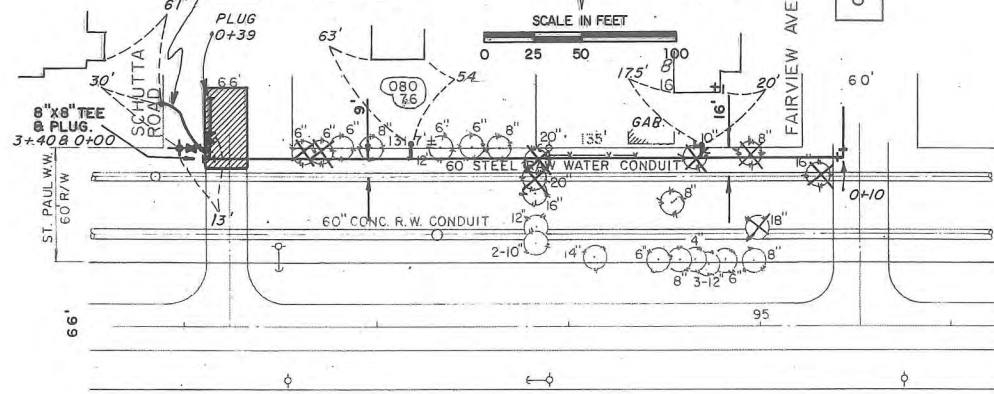
S-330 W-280

SERVICE TAPPED SOUTH OF
HYD. TEE. L=40'

SERVICE ABANDONED
AT CORP. 9/30/88 L=7'

1811
2+37

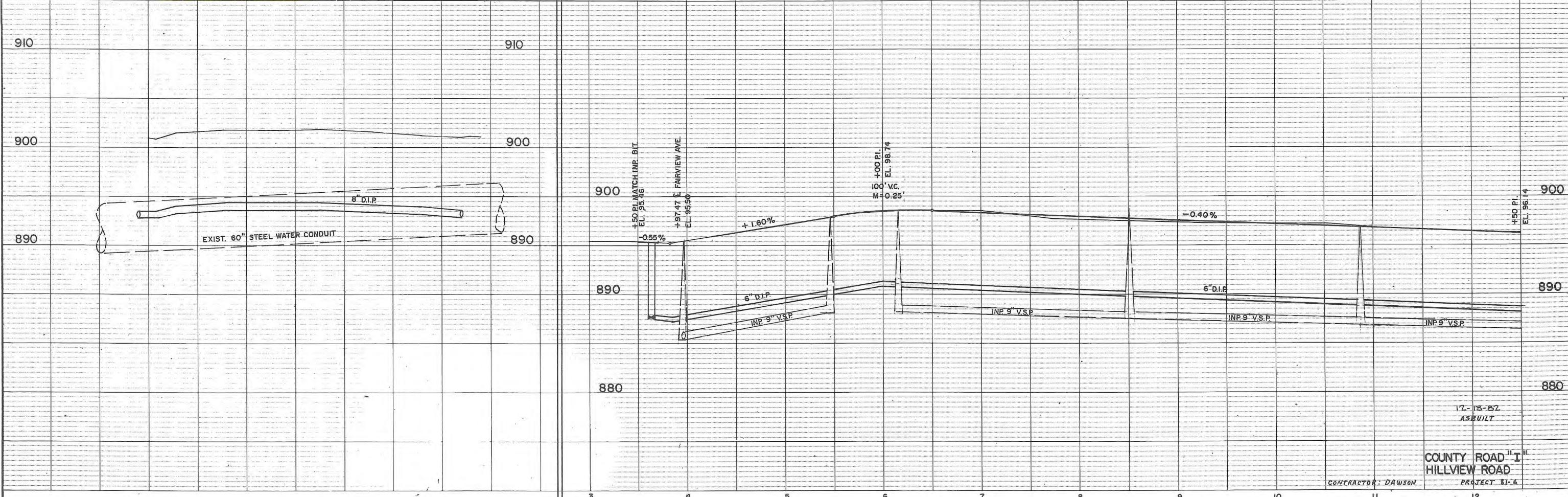
5533
0+84
L=7'



NOTE: ALL WATER SERVICE IS 1" COPPER

COUNTY ROAD "I"

HILLVIEW ROAD



SURVEY:	SCALE:	NO.	DATE	REVISIONS
DESIGN:				
DRAWN:				

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.
Edward August
 Date: 4-30-82 Reg. No. 8402

SEH SHORT - ELLIOTT - HENDRICKSON, INC.
 Saint Paul, Minnesota • Chippewa Falls, Wisconsin

SHOREVIEW, MINNESOTA

WATERMAIN
 CONTRACTOR: DAWSON
 PROJECT #1-6

FILE NO.:	61136
DATE:	4-30-82
	4
	11

W-245

RAMSEY CO.
OPEN SPACE

1831 CO. RD. I
261+47.64 J MARTIN

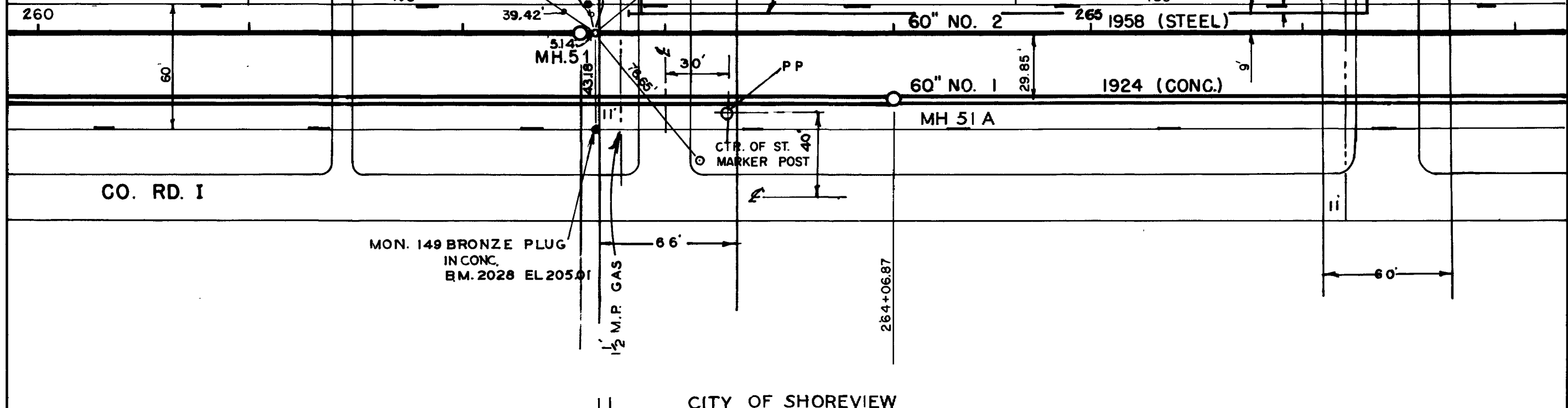
PI 262+59.80 BK=
262+66.79 AH

SCHUTTA RD.

8" D.I.P. (1982)



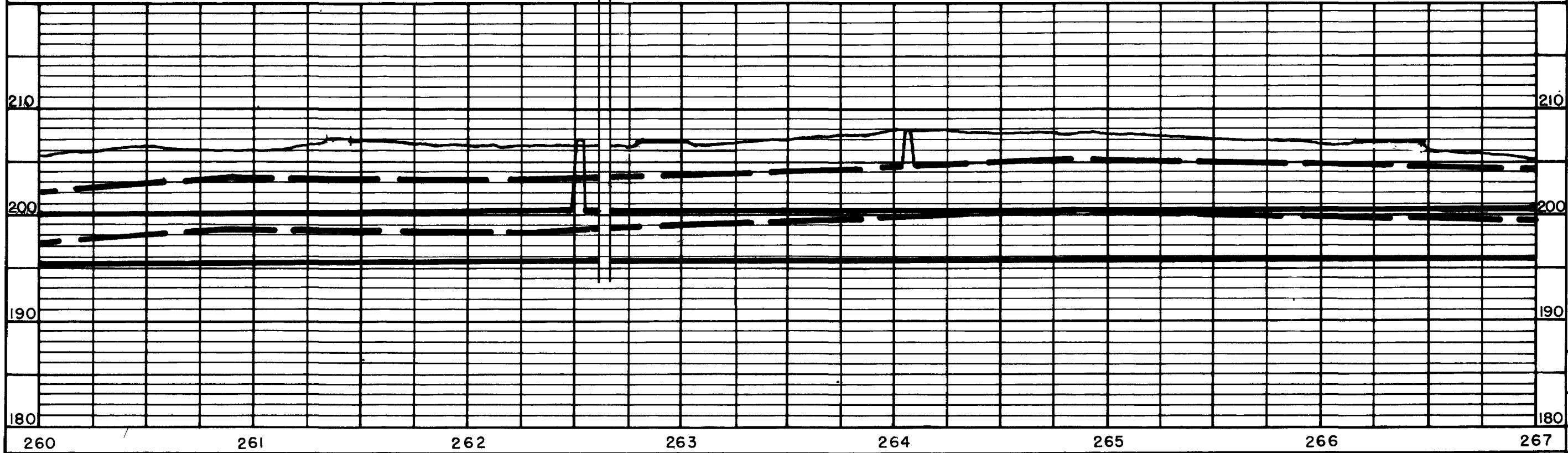
FAIRVIEW AVE.



CO. RD. I

MON. 149 BRONZE PLUG
IN CONC.
B.M. 2028 EL 205.01

CITY OF SHOREVIEW



DR	RJC7-72
TR	RJC7-72
REVISIONS	
2-76	
12-91	

60" CONDUITS FROM MISSISSIPPI RIVER TO CHARLES LAKE
STA. 260 TO STA. 267

SCALE: 1" = 50'

A 2
6559
SH 38

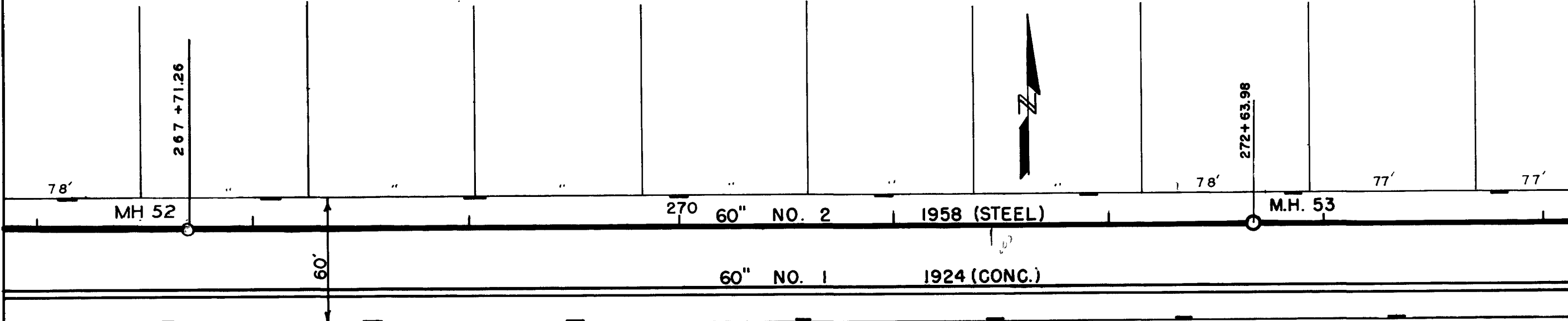
REFER TO GENERAL PLANS PAGES SEE SH B A2 6559

REFER TO DETAIL PLANS PAGES

PAGE

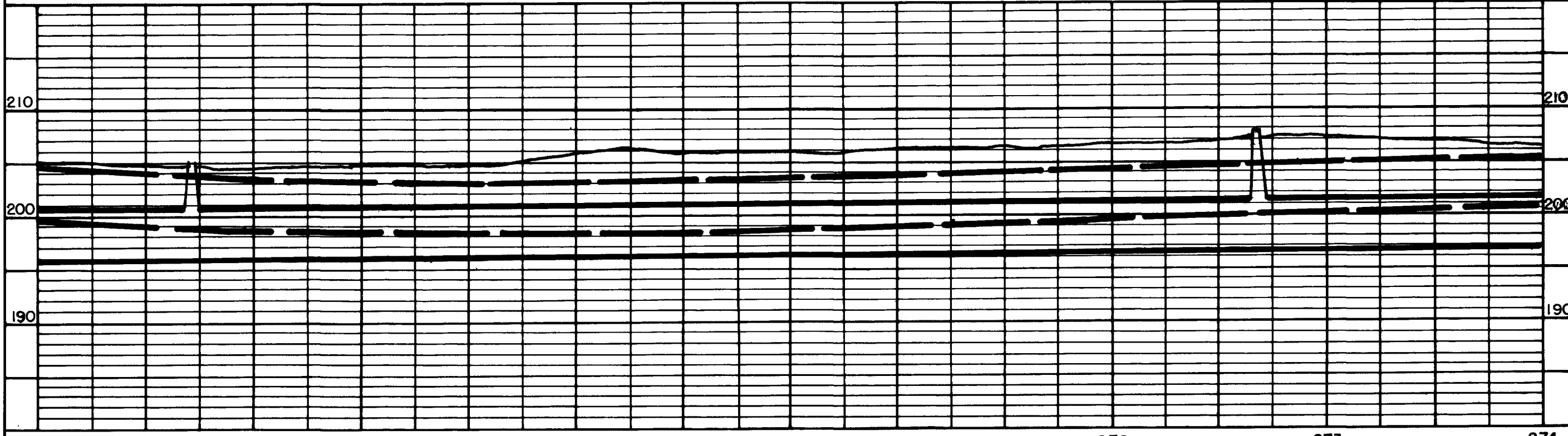
TRIM PRINTS TO THIS LINE

DR	RJC	7-72
TR	RJC	7-72
REVISIONS		
2-76		
12-91		



CO. RD. I

CITY OF SHOREVIEW



267 268 269 270 271 272 273 274

REFER TO GENERAL PLANS PAGES SEE SH B A2 6 559

REFER TO DETAIL PLANS PAGES

SCALE: 1" = 50'

60" CONDUITS FROM MISSISSIPPI RIVER TO CHARLES LAKE
STA. 267 TO STA. 274

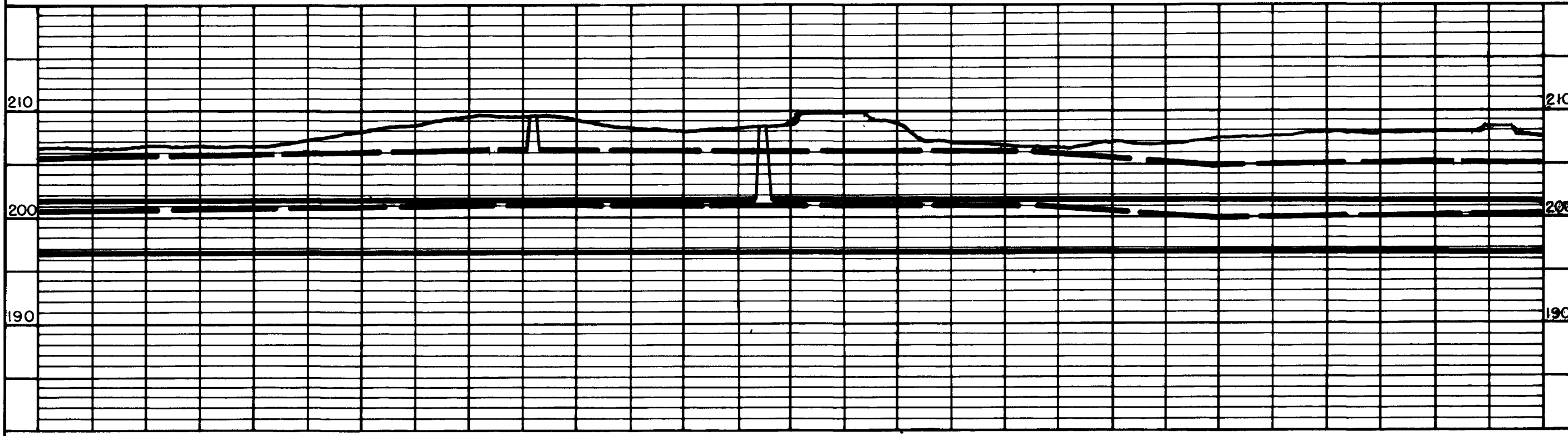
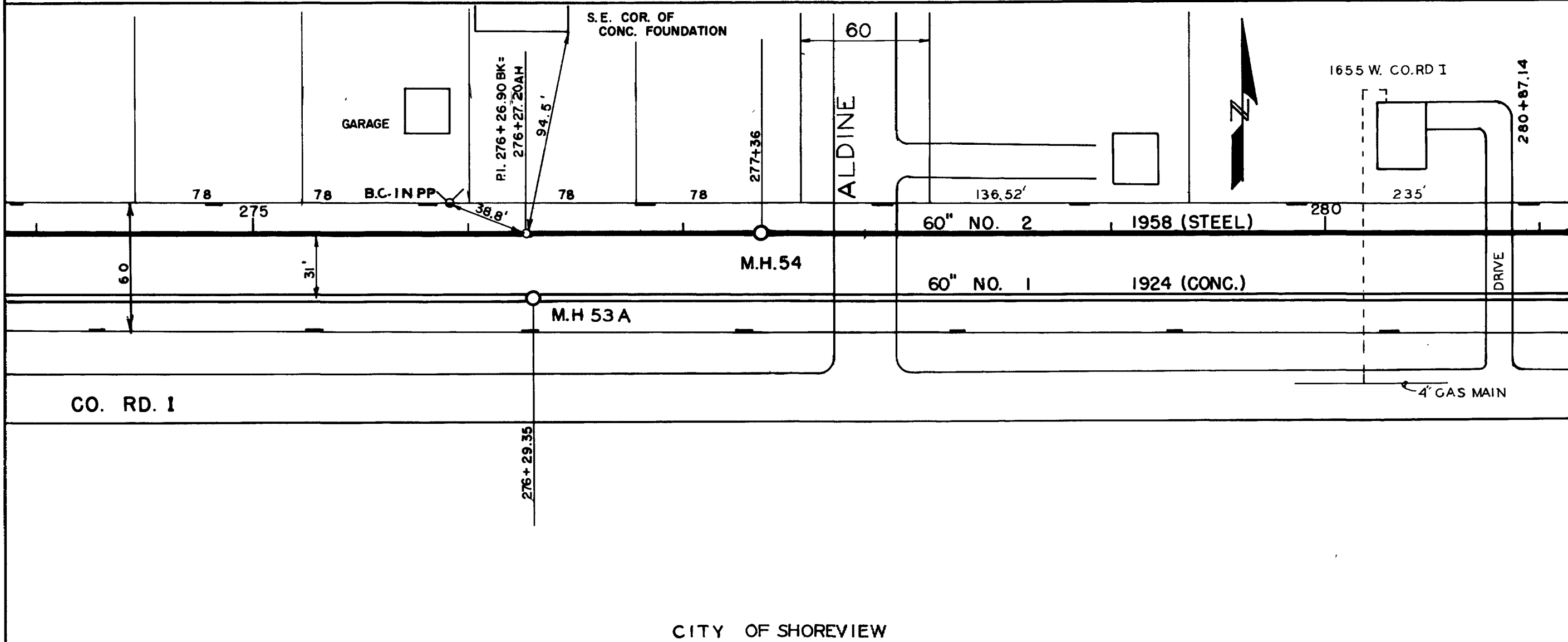
A 2

6559

SH 39

PAGE

TRIM PRINTS TO THIS LINE



DR	RJC 7-72
TR	RJC 7-72
REVISIONS	
2-78	
12-91	

SCALE: 1" = 50'

60" CONDUITS FROM MISSISSIPPI RIVER TO CHARLES LAKE
STA. 274 TO STA. 281

A 2
6559
SH 40

274 275 276 277 278 279 280 281

REFER TO GENERAL PLANS PAGES SEE SH.B A2-6559 REFER TO DETAIL PLANS PAGES

TRIM PRINTS TO THIS LINE ↘

Appendix B

Data Usability Assessment

Appendix B
Data Usability Assessment
Site A Vapor Intrusion Investigation

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Field Duplicates.....	8
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- B.1 Completeness Summary
- B.2 QC Sample and Data Validation Frequency
- B.3 Method Blank Results
- B.4 Laboratory Control Sample (LCS) Results
- B.5 Surrogate Results
- B.6 Laboratory Duplicate Results
- B.7 Field Duplicate Results

ATTACHMENTS

- B.1 Field Audit Form
- B.2 Analytical Report on CD-ROM (Pace Analytical Services)
- B.3 Field Data Validation Form
- B.4 Analytical Data Validation Report

Introduction

This appendix provides an assessment of data usability for the analytical data generated during the July 2013 soil gas sampling in the Site A vicinity, as specified in the Quality Assurance Project Plan for Site A Vapor Intrusion Investigation (Wenck, Revision 2, June 4, 2013). Note that all references to the “QAPP” within this appendix refer to the above QAPP. The intent of this sampling was to acquire definitive soil vapor results relative to the volatile organic compound (VOC) contamination at Site A, and thus determine the potential for any vapor intrusion into residences located along the north side of County Road I.

Summary of Field Work

The sampling described in this section was conducted by Wenck (and a soil probe subcontractor) on July 22 and 23, 2013.

Ten (10) soil gas probes were installed along the north side of County Road I to facilitate soil gas sample collection. The locations were placed on approximately 100-foot centers (two were shifted slightly due to the presence of trees) and extended beyond the edges of the cis-1,2-dichloroethene plume in both directions. Soil gas samples were grab samples collected at a depth of 6 feet below ground surface, which complies with MPCA guidance. This guidance suggests sample collection at least 3 feet below ground surface and not less than 2 feet above the water table, and notes that soil gas samples are typically collected at depths from 3 to 8 feet. The depth of 6 feet placed the sample collection location approximately half the depth to the groundwater level, which is approximately 15 feet. The line of probes was located as far north as possible without having to be located on the parcels of individual residences, which would have greatly complicated property access (many different property owners would have been involved).

In addition to the above line of probes, to provide an indication of soil gas concentrations in a worst-case area, one soil gas sample was collected approximately 10 feet west of the highest cis-1,2-dichloroethene concentration in groundwater in the December 2012

sampling event (well 01U139). Also, to provide additional data south of County Road I, three soil gas samples were collected along the northern edge of TCAAP, just inside the fence and within the plume footprint. The probe depth for sampling these four locations was also 6 feet (grab sample).

Equipment used in the probing operations was steam-cleaned prior to arrival at the Site. The sampler was driven to the specified 6-foot depth below grade, and then the borehole was sealed at the surface with bentonite grout to prevent short circuiting to the surface during sample collection. After sealing, the protective sheath covering the stainless steel inner screen was retracted to expose approximately one foot of the screen to the formation.

New disposable nitrile gloves were worn for each sample location. After exposing the sample zone, the sampler was equipped with a new piece of polyethylene tubing. Prior to collecting the sample, a minimum of three volumes (i.e., total volume of the sampling point and tube) was purged using a graduated syringe. Prior to attaching the tubing the Summa Canister, a vacuum gauge was connected to the canister to verify that the vacuum level shown on the regulator assembly matched the stated vacuum level. After sample collection, the vacuum gauge was rechecked to verify that the sample canister was adequately filled and an organic vapor detector (PID) was connected to the tubing (the highest reading was recorded in the field notes and on the chain of custody form).

The borehole was not sealed (and was not required to be sealed given that no water table was intersected).

Soil gas samples were collected for analysis by EPA Method TO-15 by Pace Analytical Services, Minneapolis, Minnesota. The VOC list included the six (6) Site A shallow groundwater Chemicals of Concern (COCs) that are chlorinated: cis-1,2-dichloroethene, trichloroethene, tetrachloroethene, 1,1-dichloroethene, 1,2-dichloroethane, and chloroform. Of these, cis-1,2-dichloroethene is of primary importance given that it is the

only VOC detected in groundwater on the north side of County Road I. Among the 7 VOCs that are Site A COCs, one petroleum-related compound (benzene) was not analyzed, since it was deemed far more likely to be related to an unknown (non-TCAAP) petroleum source along County Road I (i.e., contamination resulting from road or utility construction and/or general road use). Benzene is not a primary COC at Site A: the majority of wells have no detectable benzene and it is not detectable in any of the wells north of County Road I. Lastly, though it is not a COC in groundwater, vinyl chloride was added to the list of reported analytes, since it is a potential degradation product of other chlorinated VOCs.

All samples were labeled with a unique sample number with consistent format, date, parameters to be analyzed, site ID, and sampler's initials. Samples that were collected as field duplicates were collected, numbered, packaged, and shipped in the same manner as other samples and were submitted "blind" to the laboratory.

Field personnel were responsible for sample custody from the time of collection until the time of delivery to the laboratory. Samples were kept in the secure possession of the sampler, meaning that they were either within sight of the sampler, in the sampler's secure vehicle, within a locked building at TCAAP, or within the secure office of the sampling firm. Chain-of-custody forms for chemical analyses were Pace Analytical Services standard forms, which were completed in ink. Sample canisters were hand delivered to the laboratory.

Field Audit

The field audit specified in the QAPP was conducted by the Wenck QA Manager on July 22, 2013 (the first day of sampling). The Field Audit Form, signed by the QA Manager and the sampler, is included in Attachment B.1. The audit confirmed that soil gas sampling, custody, and shipping procedures were in accordance with the QAPP.

Laboratory Analysis

Samples were analyzed by the laboratory specified in the QAPP, using the analytical method specified therein. Specifically, Pace Analytical Services (Minneapolis, Minnesota) analyzed soil gas (air) samples using the following method:

- VOCs EPA Method TO-15

The analytical report for this project is included on CD-ROM in Attachment B.2.

Completeness

The field and analytical completeness goals specified in the QAPP were both 95%. Completeness information is shown in Table B.1. Field completeness was 100% (i.e., all of the planned samples were collected), and analytical completeness was 100% (i.e., all of the samples that were collected were analyzed by the laboratory and produced valid data). Hence, QAPP-specified field and analytical completeness goals were met.

Field Data Validation

The QAPP specified that 100% of the data receive field data validation, and this requirement was met. Field data validation was performed by the Wenck QA manager, as specified in the QAPP, and is documented on the Field Data Validation Form included in Attachment B.3. The QAPP requirements were documented as having been met for all items reviewed.

Analytical Data Validation

The QAPP required that 100% of the data receive full analytical data validation, and this requirement was met (Table B.2). Analytical data validation was performed by Diane Short & Associates, as specified in the QAPP, and is documented in the Analytical Data Validation Report included in Attachment B.4. The QAPP requirements were documented as having been met, and all data were found to be usable, with no data qualification required.

Reporting Limits

The reporting limits that were achieved for the project were in compliance with the QAPP. In all cases the achieved reporting limits were low enough to be below the Action Level that is applicable to soil gas (the MPCA Residential 10X Intrusion Screening Value [ISV]), thus allowing an acceptable comparison thereto.

QC Sample Frequency

An analysis of the actual frequency of QC sample collection (field duplicates) versus the QAPP goal is shown in Table B.2. Field duplicates have a collection goal of 10%. The actual QC sample frequency of 14% met the QAPP goal.

Blanks

The results for method blanks are shown in Table B.3. There were no detections reported in either method blank. These results suggest that there were no significant impacts from laboratory sources of contamination.

Laboratory Control Samples

Laboratory control sample (LCS) results are shown in Tables B.4. All LCS percent recoveries were within the QC limit of 60 to 130% for all seven analytes. The average recoveries ranged from 93 to 102%, with a combined average recovery of 98%. These results show very good laboratory accuracy. Based on the LCS results, there is no indication of a significant bias for any of the analytes.

Surrogates

Surrogate recovery results are shown in Table B.5. All surrogate recoveries were within the QC limit of 50 to 130%. The range of recoveries for the three surrogates was 98 to 107%; 91 to 115%; and 85 to 89%. Overall, these results show very good laboratory accuracy.

Laboratory Duplicates

Laboratory duplicate results are shown in Table B.6. The QC limit is 25% (or plus or minus two times the RL if the sample or duplicate result is less than five times the RL). All of the results were within the QC limits. For most results, the plus or minus two times the RL criteria was applicable and was met in all of those cases. Where results were high enough to warrant calculation of RPDs, the RPD results were 2% or less. Overall, these results show very good laboratory accuracy.

Field Duplicates

Field duplicates were delivered to the laboratory “blind”, i.e., the laboratory did not know which parent sample a duplicate was associated with. Field duplicate results are shown in Table B.7.

All of the results were within the QC limit of 50% (or plus or minus the four times the RL if the sample or duplicate result is less than five times the RL). The plus or minus four times the RL criteria was applicable to all results and was met in all cases. These results show very good field/laboratory precision, and suggest that sample heterogeneity is not a significant issue for the Site A soil gas samples.

Data Usability Conclusion

Based on this data usability assessment, the project data are deemed to have met the data quality objectives specified in the QAPP and to be fully usable for the purpose of determining that VOC concentrations in soil vapor on the north side of County Road I are less than 10 times the MPCA Residential ISVs. No data was rejected, nor have any data qualifiers been applied.

Tables

**Table B.1
Completeness Summary**

Site A Vapor Intrusion Investigation

Sampling Event	Number of VOC Samples Planned	Number of VOC Samples Collected	Number of VOC Samples Analyzed
July 2013	14	14	14
Project Total	14	14	14
	Actual Field Completeness:	100%	
	Field Completeness Goal:	95%	
	Actual Analytical Completeness:		100%
	Analytical Completeness Goal:		95%

Table B.2
QC Sample and Data Validation Frequency

Site A Vapor Intrusion Investigation

Sampling Event	VOCs		
	Number of Samples	Number of Field Duplicates	Number with Full Data Validation
July 2013	14	2	14
Project Total	14	2	14
Percentages		14.3%	100.0%
QAPP Goal		10%	100%
Goal Met for Project?		Yes	Yes

**Table B.3
Method Blank Results**

Site A Vapor Intrusion Investigation

Sampling Event	Tetrachloro-ethene ($\mu\text{g}/\text{m}^3$)	Trichloro-ethene ($\mu\text{g}/\text{m}^3$)	cis-1,2-Dichloro-ethene ($\mu\text{g}/\text{m}^3$)	1,2-Dichloro-ethane ($\mu\text{g}/\text{m}^3$)	1,1-Dichloro-ethene ($\mu\text{g}/\text{m}^3$)	Chloroform ($\mu\text{g}/\text{m}^3$)	Vinyl Chloride ($\mu\text{g}/\text{m}^3$)	Qualifiers (if any)
July 2013	< 0.69	< 0.55	< 0.81	< 0.41	< 0.81	< 0.99	< 0.26	None
July 2013	< 0.69	< 0.55	< 0.81	< 0.41	< 0.81	< 0.99	< 0.26	None

Notes:

< = Less than the Reporting Limit (RL)

**Table B.4
Laboratory Control Sample (LCS) Results**

Site A Vapor Intrusion Investigation

Sampling Event	Percent Recovery							Qualifiers (if any)
	Tetrachloro- ethene (%)	Trichloro- ethene (%)	cis-1,2-Dichloro- ethene (%)	1,2-Dichloro- ethane (%)	1,1-Dichloro- ethene (%)	Chloroform (%)	Vinyl Chloride (%)	
<i>QC Limits:</i>	<i>60-130</i>	<i>60-130</i>	<i>60-130</i>	<i>60-130</i>	<i>60-130</i>	<i>60-130</i>	<i>60-130</i>	
July 2013	99	93	99	104	96	102	96	(None)
July 2013	104	95	97	100	91	100	90	(None)
Average Recovery:	102	94	98	102	94	101	93	
Combined Average Recovery for All VOCs:	98							

**Table B.5
Surrogate Results**

Site A Vapor Intrusion Investigation

Sampling Event	Toluene-d8 % Recovery Range	1,4-Dichlorobenzene-d4 % Recovery Range	Hexane-d14 % Recovery Range	Qualifiers (if any)
<i>QC Limits:</i>	50-130	50-130	50-130	
July 2013	98-107	91-115	85-89	(None)

Table B.6
Laboratory Duplicate Results

Site A Vapor Intrusion Investigation

Sampling Event	Tetrachloro-ethene (RPD)	Trichloro-ethene (RPD)	cis-1,2-Dichloro-ethene (RPD)	1,2-Dichloro-ethane (RPD)	1,1-Dichloro-ethene (RPD)	Chloroform (RPD)	Vinyl Chloride (RPD)	Qualifiers (if any)
July 2013	1.0	± 2xRL	± 2xRL	± 2xRL	± 2xRL	± 2xRL	± 2xRL	(None)
July 2013 ⁽¹⁾	0.3	2	2	± 2xRL	± 2xRL	± 2xRL	± 2xRL	(None)
Average Recovery:	0.7	2	2	---	---	---	---	

Notes:

QC Limit is 25% RPD, or ± 2 x Reporting Limit (RL) if the sample or duplicate value is less than 5 times the RL.

RPD = Relative Percent Difference

(1) The parent sample for this laboratory duplicate was not a sample originating from TCAAP.

(2) Average Recovery excludes consideration of results that are indicated to be ± 2xRL.

Table B.7
Field Duplicate Results

Site A Vapor Intrusion Investigation

Sample Location	Date Collected	Tetrachloroethene (µg/m ³)	Trichloroethene (µg/m ³)	cis-1,2-Dichloroethene (µg/m ³)	1,2-Dichloroethane (µg/m ³)	1,1-Dichloroethene (µg/m ³)	Chloroform (µg/m ³)	Vinyl Chloride (µg/m ³)	Qualifiers (if any)
1 (SG07221301)	7/22/13	5.4	< 0.79	< 1.2	< 0.59	< 1.2	< 1.4	< 0.37	
1D (SG07221302)	7/22/13	4.7	< 0.79	< 1.2	< 0.59	< 1.2	< 1.4	< 0.37	
	RPD:	± 4xRL	± 4xRL	± 4xRL	± 4xRL	± 4xRL	± 4xRL	± 4xRL	(None)
11 (SG07231301)	7/23/13	4.3	< 0.79	< 1.2	< 0.59	< 1.2	< 1.4	< 0.37	
11D (SG07231302)	7/23/13	4.4	< 0.82	< 1.2	< 0.61	< 1.2	< 1.5	< 0.39	
	RPD:	± 4xRL	± 4xRL	± 4xRL	± 4xRL	± 4xRL	± 4xRL	± 4xRL	(None)
	Average Recovery:	---	---	---	---	---	---	---	

Notes:

QC Limit is 50% RPD, or ± 4 x Reporting Limit (RL) if the sample or duplicate value is less than 5 times the RL.

RPD = Relative Percent Difference

Attachment B.1

Field Audit Form

FIELD AUDIT FORM

Site/Event:	Site A Vapor Intrusion Investigation
Sampling Firm:	Wenck
Auditor's Name(s): (print & sign)	Ryan Lefers Heather Libby Heather Libby
Sampler's Name(s): (print & sign)	Ryan Lefers Ryan Lefers
Date Conducted:	7/22/13

Are the sample containers that are being used in accordance with QAPP, with regard to container size and type, use of correct preservatives, and were copies of the Batch Certification for bottle cleanliness received and properly filed?	<input checked="" type="radio"/> Yes No (circle one)
Comments:	

Is sample labeling being performed in accordance with the procedures in QAPP SOP F-1 with regard to including all required information, using proper sample numbering format, and labeling of field duplicates to be blind to the laboratory?	<input checked="" type="radio"/> Yes No (circle one)
Comments:	

Is sample collection being performed in accordance with the procedures in QAPP SOP F-1 with regard to use of proper equipment, sealing probe rod at ground surface before sampling, use of clean nitrile gloves at each location, and sample collection procedures?	<input checked="" type="radio"/> Yes No (circle one)
Comments: at SB#6	

Is equipment decontamination being performed in accordance with the procedures in QAPP SOP F-2, with regard to type of decontamination fluids, decontamination of sampling equipment between sampling locations, and spent decontamination fluid disposal?	<input checked="" type="radio"/> Yes No (circle one)
Comments:	

FIELD AUDIT FORM (cont'd)

Have sampling personnel received adequate training, in accordance with the QAPP?	<input checked="" type="radio"/> Yes No (circle one)
Comments:	

Is field documentation being performed in accordance with procedures in QAPP SOP F-1 with regard to completing logbooks (bound, entries in ink, cross-outs are initialed, required information is documented)?	<input checked="" type="radio"/> Yes No (circle one)
Comments:	

Is field documentation being performed in accordance with procedures in QAPP SOP F-1 with regard to completing Chain-of-Custody forms (entries in ink, cross-outs are initialed, required information is properly filled out, shipping bill number is documented, and all transfers are documented with signature/date/time)?	<input checked="" type="radio"/> Yes No (circle one)
Comments:	

Is sample packing and delivery being performed in accordance with the procedures in QAPP SOP F-1?	<input checked="" type="radio"/> Yes No (circle one)
Comments: plan to have a courier pick up samples at end of project.	

FIELD AUDIT FORM (cont'd)

Additional Comments:

none

Action Items (if any):

none

FIELD AUDIT FORM (cont'd)

Follow-up Audits (if any):

nothing

Attachment B.2

Analytical Report on CD-ROM (Pace Analytical Services, Minneapolis, MN)

ATTACHMENT B.2
Analytical Report on CD-ROM
(Pace Analytical Services, Minneapolis, MN)

Sampling Event

Parameters

Pace Project Number

July 2013

VOCs in Air (TO15)

10236207

July 30, 2013

Mr. Matt Bowers
Wenck Associates, Inc.
1800 Pioneer Creek Ctr.
Maple Plain, MN 55359

RE: Project: 1561-12-02 Site A Vapor TCAAP
Pace Project No.: 10236207

Dear Mr. Bowers:

Enclosed are the analytical results for sample(s) received by the laboratory on July 23, 2013. 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,



Mariah Peronto

mariah.peronto@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 1561-12-02 Site A Vapor TCAAP

Pace Project No.: 10236207

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

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: Pace

Florida/NELAP Certification #: E87605

Georgia Certification #: 959

Hawaii Certification #Pace

Idaho Certification #: MN00064

Illinois Certification #: 200011

Kansas Certification #: E-10167

Louisiana Certification #: 03086

Louisiana Certification #: LA080009

Maine Certification #: 2007029

Maryland Certification #: 322

Michigan DEQ Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT CERT0092

Nevada Certification #: MN_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Dakota Certification #: R-036

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Tennessee Certification #: 02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia/DCLS Certification #: 002521

Virginia/VELAP Certification #: 460163

Washington Certification #: C754

West Virginia Certification #: 382

Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 1561-12-02 Site A Vapor TCAAP

Pace Project No.: 10236207

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10236207001	SG07221301	Air	07/22/13 09:50	07/23/13 15:30
10236207002	SG07221302	Air	07/22/13 00:00	07/23/13 15:30
10236207003	SG07221303	Air	07/22/13 10:45	07/23/13 15:30
10236207004	SG07221304	Air	07/22/13 11:10	07/23/13 15:30
10236207005	SG07221305	Air	07/22/13 11:30	07/23/13 15:30
10236207006	SG07221306	Air	07/22/13 11:55	07/23/13 15:30
10236207007	SG07221307	Air	07/22/13 13:00	07/23/13 15:30
10236207008	SG07221308	Air	07/22/13 13:20	07/23/13 15:30
10236207009	SG07221309	Air	07/22/13 13:40	07/23/13 15:30
10236207010	SG07221310	Air	07/22/13 14:10	07/23/13 15:30
10236207011	SG07221311	Air	07/22/13 14:40	07/23/13 15:30
10236207012	SG07221312	Air	07/22/13 15:15	07/23/13 15:30
10236207013	SG07221313	Air	07/22/13 15:35	07/23/13 15:30
10236207014	SG07221314	Air	07/22/13 16:05	07/23/13 15:30
10236207015	SG07231301	Air	07/23/13 08:30	07/23/13 15:30
10236207016	SG07231302	Air	07/23/13 00:00	07/23/13 15:30

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SAMPLE ANALYTE COUNT

Project: 1561-12-02 Site A Vapor TCAAP

Pace Project No.: 10236207

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10236207001	SG07221301	TO-15	DR1	10
10236207002	SG07221302	TO-15	DR1	10
10236207003	SG07221303	TO-15	DR1	10
10236207004	SG07221304	TO-15	DR1	10
10236207005	SG07221305	TO-15	DR1	10
10236207006	SG07221306	TO-15	DR1	10
10236207007	SG07221307	TO-15	DR1	10
10236207008	SG07221308	TO-15	DR1	10
10236207009	SG07221309	TO-15	DR1	10
10236207010	SG07221310	TO-15	DR1	10
10236207011	SG07221311	TO-15	DR1	10
10236207012	SG07221312	TO-15	DR1	10
10236207013	SG07221313	TO-15	DR1	10
10236207014	SG07221314	TO-15	DR1	10
10236207015	SG07231301	TO-15	DR1	10
10236207016	SG07231302	TO-15	DR1	10

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PROJECT NARRATIVE

Project: 1561-12-02 Site A Vapor TCAAP

Pace Project No.: 10236207

Method: TO-15

Description: TO15 MSV AIR

Client: Wenck Associates, Inc.

Date: July 30, 2013

General Information:

16 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 1561-12-02 Site A Vapor TCAAP

Pace Project No.: 10236207

Sample: SG07221301		Lab ID: 10236207001		Collected: 07/22/13 09:50	Received: 07/23/13 15:30	Matrix: Air		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Chloroform	ND	ug/m3	1.4	1.44		07/26/13 14:08	67-66-3	
1,2-Dichloroethane	ND	ug/m3	0.59	1.44		07/26/13 14:08	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.44		07/26/13 14:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		07/26/13 14:08	156-59-2	
Tetrachloroethene	5.4	ug/m3	0.99	1.44		07/26/13 14:08	127-18-4	
Trichloroethene	ND	ug/m3	0.79	1.44		07/26/13 14:08	79-01-6	
Vinyl chloride	ND	ug/m3	0.37	1.44		07/26/13 14:08	75-01-4	
Surrogates								
Toluene-d8 (S)	102	%	62-129	1.44		07/26/13 14:08	2037-26-5	
1,4-Dichlorobenzene-d4 (S)	99	%	72-131	1.44		07/26/13 14:08	3855-82-1	
Hexane-d14 (S)	87	%	75-125	1.44		07/26/13 14:08	21666-38-6	

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ANALYTICAL RESULTS

Project: 1561-12-02 Site A Vapor TCAAP

Pace Project No.: 10236207

Sample: SG07221302	Lab ID: 10236207002	Collected: 07/22/13 00:00	Received: 07/23/13 15:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Chloroform	ND	ug/m3	1.4	1.44		07/26/13 05:34	67-66-3	
1,2-Dichloroethane	ND	ug/m3	0.59	1.44		07/26/13 05:34	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.44		07/26/13 05:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		07/26/13 05:34	156-59-2	
Tetrachloroethene	4.7	ug/m3	0.99	1.44		07/26/13 05:34	127-18-4	
Trichloroethene	ND	ug/m3	0.79	1.44		07/26/13 05:34	79-01-6	
Vinyl chloride	ND	ug/m3	0.37	1.44		07/26/13 05:34	75-01-4	
Surrogates								
Toluene-d8 (S)	99 %		62-129	1.44		07/26/13 05:34	2037-26-5	
1,4-Dichlorobenzene-d4 (S)	94 %		72-131	1.44		07/26/13 05:34	3855-82-1	
Hexane-d14 (S)	85 %		75-125	1.44		07/26/13 05:34	21666-38-6	

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ANALYTICAL RESULTS

Project: 1561-12-02 Site A Vapor TCAAP

Pace Project No.: 10236207

Sample: SG07221303	Lab ID: 10236207003	Collected: 07/22/13 10:45	Received: 07/23/13 15:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Chloroform	ND	ug/m3	2.0	2		07/26/13 14:39	67-66-3	
1,2-Dichloroethane	ND	ug/m3	0.82	2		07/26/13 14:39	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.6	2		07/26/13 14:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.6	2		07/26/13 14:39	156-59-2	
Tetrachloroethene	7.2	ug/m3	1.4	2		07/26/13 14:39	127-18-4	
Trichloroethene	ND	ug/m3	1.1	2		07/26/13 14:39	79-01-6	
Vinyl chloride	ND	ug/m3	0.52	2		07/26/13 14:39	75-01-4	
Surrogates								
Toluene-d8 (S)	100	%	62-129	2		07/26/13 14:39	2037-26-5	
1,4-Dichlorobenzene-d4 (S)	93	%	72-131	2		07/26/13 14:39	3855-82-1	
Hexane-d14 (S)	89	%	75-125	2		07/26/13 14:39	21666-38-6	

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ANALYTICAL RESULTS

Project: 1561-12-02 Site A Vapor TCAAP

Pace Project No.: 10236207

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: SG07221304		Lab ID: 10236207004		Collected: 07/22/13 11:10	Received: 07/23/13 15:30	Matrix: Air		
TO15 MSV AIR								
Analytical Method: TO-15								
Chloroform	ND	ug/m3	1.5	1.49		07/26/13 04:34	67-66-3	
1,2-Dichloroethane	ND	ug/m3	0.61	1.49		07/26/13 04:34	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.49		07/26/13 04:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		07/26/13 04:34	156-59-2	
Tetrachloroethene	5.5	ug/m3	1.0	1.49		07/26/13 04:34	127-18-4	
Trichloroethene	ND	ug/m3	0.82	1.49		07/26/13 04:34	79-01-6	
Vinyl chloride	ND	ug/m3	0.39	1.49		07/26/13 04:34	75-01-4	
Surrogates								
Toluene-d8 (S)	103	%	62-129	1.49		07/26/13 04:34	2037-26-5	
1,4-Dichlorobenzene-d4 (S)	94	%	72-131	1.49		07/26/13 04:34	3855-82-1	
Hexane-d14 (S)	85	%	75-125	1.49		07/26/13 04:34	21666-38-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1561-12-02 Site A Vapor TCAAP

Pace Project No.: 10236207

Sample: SG07221305		Lab ID: 10236207005		Collected: 07/22/13 11:30	Received: 07/23/13 15:30	Matrix: Air		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Chloroform	ND	ug/m3	1.4	1.44		07/25/13 21:26	67-66-3	
1,2-Dichloroethane	ND	ug/m3	0.59	1.44		07/25/13 21:26	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.44		07/25/13 21:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		07/25/13 21:26	156-59-2	
Tetrachloroethene	5.3	ug/m3	0.99	1.44		07/25/13 21:26	127-18-4	
Trichloroethene	ND	ug/m3	0.79	1.44		07/25/13 21:26	79-01-6	
Vinyl chloride	ND	ug/m3	0.37	1.44		07/25/13 21:26	75-01-4	
Surrogates								
Toluene-d8 (S)	102	%	62-129	1.44		07/25/13 21:26	2037-26-5	
1,4-Dichlorobenzene-d4 (S)	92	%	72-131	1.44		07/25/13 21:26	3855-82-1	
Hexane-d14 (S)	86	%	75-125	1.44		07/25/13 21:26	21666-38-6	

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ANALYTICAL RESULTS

Project: 1561-12-02 Site A Vapor TCAAP

Pace Project No.: 10236207

Sample: SG07221306	Lab ID: 10236207006	Collected: 07/22/13 11:55	Received: 07/23/13 15:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Chloroform	ND	ug/m3	1.4	1.44		07/26/13 02:32	67-66-3	
1,2-Dichloroethane	ND	ug/m3	0.59	1.44		07/26/13 02:32	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.44		07/26/13 02:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		07/26/13 02:32	156-59-2	
Tetrachloroethene	5.8	ug/m3	0.99	1.44		07/26/13 02:32	127-18-4	
Trichloroethene	ND	ug/m3	0.79	1.44		07/26/13 02:32	79-01-6	
Vinyl chloride	ND	ug/m3	0.37	1.44		07/26/13 02:32	75-01-4	
Surrogates								
Toluene-d8 (S)	105 %		62-129	1.44		07/26/13 02:32	2037-26-5	
1,4-Dichlorobenzene-d4 (S)	94 %		72-131	1.44		07/26/13 02:32	3855-82-1	
Hexane-d14 (S)	88 %		75-125	1.44		07/26/13 02:32	21666-38-6	

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ANALYTICAL RESULTS

Project: 1561-12-02 Site A Vapor TCAAP

Pace Project No.: 10236207

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: SG07221307 Lab ID: 10236207007 Collected: 07/22/13 13:00 Received: 07/23/13 15:30 Matrix: Air								
TO15 MSV AIR Analytical Method: TO-15								
Chloroform	ND	ug/m3	1.4	1.44		07/25/13 23:59	67-66-3	
1,2-Dichloroethane	ND	ug/m3	0.59	1.44		07/25/13 23:59	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.44		07/25/13 23:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		07/25/13 23:59	156-59-2	
Tetrachloroethene	5.4	ug/m3	0.99	1.44		07/25/13 23:59	127-18-4	
Trichloroethene	ND	ug/m3	0.79	1.44		07/25/13 23:59	79-01-6	
Vinyl chloride	ND	ug/m3	0.37	1.44		07/25/13 23:59	75-01-4	
Surrogates								
Toluene-d8 (S)	102	%	62-129	1.44		07/25/13 23:59	2037-26-5	
1,4-Dichlorobenzene-d4 (S)	94	%	72-131	1.44		07/25/13 23:59	3855-82-1	
Hexane-d14 (S)	88	%	75-125	1.44		07/25/13 23:59	21666-38-6	

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ANALYTICAL RESULTS

Project: 1561-12-02 Site A Vapor TCAAP

Pace Project No.: 10236207

Sample: SG07221308	Lab ID: 10236207008	Collected: 07/22/13 13:20	Received: 07/23/13 15:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Chloroform	ND	ug/m3	1.5	1.49		07/26/13 01:31	67-66-3	
1,2-Dichloroethane	ND	ug/m3	0.61	1.49		07/26/13 01:31	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.49		07/26/13 01:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		07/26/13 01:31	156-59-2	
Tetrachloroethene	5.1	ug/m3	1.0	1.49		07/26/13 01:31	127-18-4	
Trichloroethene	ND	ug/m3	0.82	1.49		07/26/13 01:31	79-01-6	
Vinyl chloride	ND	ug/m3	0.39	1.49		07/26/13 01:31	75-01-4	
Surrogates								
Toluene-d8 (S)	104	%	62-129	1.49		07/26/13 01:31	2037-26-5	
1,4-Dichlorobenzene-d4 (S)	93	%	72-131	1.49		07/26/13 01:31	3855-82-1	
Hexane-d14 (S)	87	%	75-125	1.49		07/26/13 01:31	21666-38-6	

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ANALYTICAL RESULTS

Project: 1561-12-02 Site A Vapor TCAAP

Pace Project No.: 10236207

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: SG07221309 Lab ID: 10236207009 Collected: 07/22/13 13:40 Received: 07/23/13 15:30 Matrix: Air								
TO15 MSV AIR								
Analytical Method: TO-15								
Chloroform	ND	ug/m3	1.4	1.44		07/26/13 03:02	67-66-3	
1,2-Dichloroethane	ND	ug/m3	0.59	1.44		07/26/13 03:02	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.44		07/26/13 03:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		07/26/13 03:02	156-59-2	
Tetrachloroethene	4.9	ug/m3	0.99	1.44		07/26/13 03:02	127-18-4	
Trichloroethene	ND	ug/m3	0.79	1.44		07/26/13 03:02	79-01-6	
Vinyl chloride	ND	ug/m3	0.37	1.44		07/26/13 03:02	75-01-4	
Surrogates								
Toluene-d8 (S)	103	%	62-129	1.44		07/26/13 03:02	2037-26-5	
1,4-Dichlorobenzene-d4 (S)	91	%	72-131	1.44		07/26/13 03:02	3855-82-1	
Hexane-d14 (S)	85	%	75-125	1.44		07/26/13 03:02	21666-38-6	

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ANALYTICAL RESULTS

Project: 1561-12-02 Site A Vapor TCAAP

Pace Project No.: 10236207

Sample: SG07221310	Lab ID: 10236207010	Collected: 07/22/13 14:10	Received: 07/23/13 15:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Chloroform	ND	ug/m3	1.4	1.44		07/26/13 01:00	67-66-3	
1,2-Dichloroethane	ND	ug/m3	0.59	1.44		07/26/13 01:00	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.44		07/26/13 01:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		07/26/13 01:00	156-59-2	
Tetrachloroethene	5.0	ug/m3	0.99	1.44		07/26/13 01:00	127-18-4	
Trichloroethene	ND	ug/m3	0.79	1.44		07/26/13 01:00	79-01-6	
Vinyl chloride	ND	ug/m3	0.37	1.44		07/26/13 01:00	75-01-4	
Surrogates								
Toluene-d8 (S)	101	%	62-129	1.44		07/26/13 01:00	2037-26-5	
1,4-Dichlorobenzene-d4 (S)	93	%	72-131	1.44		07/26/13 01:00	3855-82-1	
Hexane-d14 (S)	88	%	75-125	1.44		07/26/13 01:00	21666-38-6	

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ANALYTICAL RESULTS

Project: 1561-12-02 Site A Vapor TCAAP

Pace Project No.: 10236207

Sample: SG07221311	Lab ID: 10236207011	Collected: 07/22/13 14:40	Received: 07/23/13 15:30	Matrix: Air				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Chloroform	ND	ug/m3	1.5	1.49		07/25/13 22:27	67-66-3	
1,2-Dichloroethane	ND	ug/m3	0.61	1.49		07/25/13 22:27	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.49		07/25/13 22:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		07/25/13 22:27	156-59-2	
Tetrachloroethene	5.2	ug/m3	1.0	1.49		07/25/13 22:27	127-18-4	
Trichloroethene	ND	ug/m3	0.82	1.49		07/25/13 22:27	79-01-6	
Vinyl chloride	ND	ug/m3	0.39	1.49		07/25/13 22:27	75-01-4	
Surrogates								
Toluene-d8 (S)	99 %		62-129	1.49		07/25/13 22:27	2037-26-5	
1,4-Dichlorobenzene-d4 (S)	99 %		72-131	1.49		07/25/13 22:27	3855-82-1	
Hexane-d14 (S)	86 %		75-125	1.49		07/25/13 22:27	21666-38-6	

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ANALYTICAL RESULTS

Project: 1561-12-02 Site A Vapor TCAAP

Pace Project No.: 10236207

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: SG07221312		Lab ID: 10236207012		Collected: 07/22/13 15:15	Received: 07/23/13 15:30	Matrix: Air		
TO15 MSV AIR								
Analytical Method: TO-15								
Chloroform	ND	ug/m3	1.5	1.55		07/25/13 20:25	67-66-3	
1,2-Dichloroethane	ND	ug/m3	0.64	1.55		07/25/13 20:25	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.3	1.55		07/25/13 20:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.55		07/25/13 20:25	156-59-2	
Tetrachloroethene	5.7	ug/m3	1.1	1.55		07/25/13 20:25	127-18-4	
Trichloroethene	ND	ug/m3	0.85	1.55		07/25/13 20:25	79-01-6	
Vinyl chloride	ND	ug/m3	0.40	1.55		07/25/13 20:25	75-01-4	
Surrogates								
Toluene-d8 (S)	100	%	62-129	1.55		07/25/13 20:25	2037-26-5	
1,4-Dichlorobenzene-d4 (S)	94	%	72-131	1.55		07/25/13 20:25	3855-82-1	
Hexane-d14 (S)	88	%	75-125	1.55		07/25/13 20:25	21666-38-6	

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ANALYTICAL RESULTS

Project: 1561-12-02 Site A Vapor TCAAP

Pace Project No.: 10236207

Sample: SG07221313		Lab ID: 10236207013		Collected: 07/22/13 15:35	Received: 07/23/13 15:30	Matrix: Air		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Chloroform	ND	ug/m3	1.5	1.49		07/26/13 03:33	67-66-3	
1,2-Dichloroethane	ND	ug/m3	0.61	1.49		07/26/13 03:33	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.49		07/26/13 03:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		07/26/13 03:33	156-59-2	
Tetrachloroethene	5.3	ug/m3	1.0	1.49		07/26/13 03:33	127-18-4	
Trichloroethene	ND	ug/m3	0.82	1.49		07/26/13 03:33	79-01-6	
Vinyl chloride	ND	ug/m3	0.39	1.49		07/26/13 03:33	75-01-4	
Surrogates								
Toluene-d8 (S)	107	%	62-129	1.49		07/26/13 03:33	2037-26-5	
1,4-Dichlorobenzene-d4 (S)	96	%	72-131	1.49		07/26/13 03:33	3855-82-1	
Hexane-d14 (S)	89	%	75-125	1.49		07/26/13 03:33	21666-38-6	

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ANALYTICAL RESULTS

Project: 1561-12-02 Site A Vapor TCAAP

Pace Project No.: 10236207

Sample: SG07221314		Lab ID: 10236207014		Collected: 07/22/13 16:05	Received: 07/23/13 15:30	Matrix: Air		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Chloroform	ND	ug/m3	1.6	1.61		07/26/13 02:01	67-66-3	
1,2-Dichloroethane	ND	ug/m3	0.66	1.61		07/26/13 02:01	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.3	1.61		07/26/13 02:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.61		07/26/13 02:01	156-59-2	
Tetrachloroethene	7.3	ug/m3	1.1	1.61		07/26/13 02:01	127-18-4	
Trichloroethene	ND	ug/m3	0.89	1.61		07/26/13 02:01	79-01-6	
Vinyl chloride	ND	ug/m3	0.42	1.61		07/26/13 02:01	75-01-4	
Surrogates								
Toluene-d8 (S)	98	%	62-129	1.61		07/26/13 02:01	2037-26-5	
1,4-Dichlorobenzene-d4 (S)	115	%	72-131	1.61		07/26/13 02:01	3855-82-1	
Hexane-d14 (S)	85	%	75-125	1.61		07/26/13 02:01	21666-38-6	

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ANALYTICAL RESULTS

Project: 1561-12-02 Site A Vapor TCAAP

Pace Project No.: 10236207

Sample: SG07231301		Lab ID: 10236207015		Collected: 07/23/13 08:30	Received: 07/23/13 15:30	Matrix: Air		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Chloroform	ND	ug/m3	1.4	1.44		07/26/13 05:04	67-66-3	
1,2-Dichloroethane	ND	ug/m3	0.59	1.44		07/26/13 05:04	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.44		07/26/13 05:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		07/26/13 05:04	156-59-2	
Tetrachloroethene	4.3	ug/m3	0.99	1.44		07/26/13 05:04	127-18-4	
Trichloroethene	ND	ug/m3	0.79	1.44		07/26/13 05:04	79-01-6	
Vinyl chloride	ND	ug/m3	0.37	1.44		07/26/13 05:04	75-01-4	
Surrogates								
Toluene-d8 (S)	102	%	62-129	1.44		07/26/13 05:04	2037-26-5	
1,4-Dichlorobenzene-d4 (S)	101	%	72-131	1.44		07/26/13 05:04	3855-82-1	
Hexane-d14 (S)	86	%	75-125	1.44		07/26/13 05:04	21666-38-6	

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ANALYTICAL RESULTS

Project: 1561-12-02 Site A Vapor TCAAP

Pace Project No.: 10236207

Sample: SG07231302		Lab ID: 10236207016		Collected: 07/23/13 00:00	Received: 07/23/13 15:30	Matrix: Air		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Chloroform	ND	ug/m3	1.5	1.49		07/26/13 00:30	67-66-3	
1,2-Dichloroethane	ND	ug/m3	0.61	1.49		07/26/13 00:30	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.49		07/26/13 00:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.49		07/26/13 00:30	156-59-2	
Tetrachloroethene	4.4	ug/m3	1.0	1.49		07/26/13 00:30	127-18-4	
Trichloroethene	ND	ug/m3	0.82	1.49		07/26/13 00:30	79-01-6	
Vinyl chloride	ND	ug/m3	0.39	1.49		07/26/13 00:30	75-01-4	
Surrogates								
Toluene-d8 (S)	98	%	62-129	1.49		07/26/13 00:30	2037-26-5	
1,4-Dichlorobenzene-d4 (S)	108	%	72-131	1.49		07/26/13 00:30	3855-82-1	
Hexane-d14 (S)	87	%	75-125	1.49		07/26/13 00:30	21666-38-6	

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QUALITY CONTROL DATA

Project: 1561-12-02 Site A Vapor TCAAP

Pace Project No.: 10236207

QC Batch: AIR/17870

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Associated Lab Samples: 10236207002, 10236207004, 10236207005, 10236207006, 10236207007, 10236207008, 10236207009, 10236207010, 10236207011, 10236207012, 10236207013, 10236207014, 10236207015, 10236207016

METHOD BLANK: 1487046

Matrix: Air

Associated Lab Samples: 10236207002, 10236207004, 10236207005, 10236207006, 10236207007, 10236207008, 10236207009, 10236207010, 10236207011, 10236207012, 10236207013, 10236207014, 10236207015, 10236207016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/m3	ND	0.81	07/25/13 14:47	
1,2-Dichloroethane	ug/m3	ND	0.41	07/25/13 14:47	
Chloroform	ug/m3	ND	0.99	07/25/13 14:47	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	07/25/13 14:47	
Tetrachloroethene	ug/m3	ND	0.69	07/25/13 14:47	
Trichloroethene	ug/m3	ND	0.55	07/25/13 14:47	
Vinyl chloride	ug/m3	ND	0.26	07/25/13 14:47	

LABORATORY CONTROL SAMPLE: 1487047

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/m3	40.3	38.9	96	64-136	
1,2-Dichloroethane	ug/m3	41.2	42.8	104	66-136	
Chloroform	ug/m3	49.7	50.7	102	66-129	
cis-1,2-Dichloroethene	ug/m3	40.3	39.8	99	73-135	
Tetrachloroethene	ug/m3	69	68.1	99	66-135	
Trichloroethene	ug/m3	54.6	51.0	93	68-134	
Vinyl chloride	ug/m3	26	25.1	96	64-134	
1,4-Dichlorobenzene-d4 (S)	%			105	72-131	
Hexane-d14 (S)	%			94	75-125	
Toluene-d8 (S)	%			102	62-129	

SAMPLE DUPLICATE: 1487813

Parameter	Units	10236207012 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2-Dichloroethane	ug/m3	ND	ND			25
Chloroform	ug/m3	ND	ND			25
cis-1,2-Dichloroethene	ug/m3	ND	ND			25
Tetrachloroethene	ug/m3	5.7	5.6	1		25
Trichloroethene	ug/m3	ND	ND			25
Vinyl chloride	ug/m3	ND	ND			25
1,4-Dichlorobenzene-d4 (S)	%	94	94	.2		
Hexane-d14 (S)	%	88	88	.004		
Toluene-d8 (S)	%	100	100	.3		

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QUALITY CONTROL DATA

Project: 1561-12-02 Site A Vapor TCAAP

QC Project No.: 10236207

QC Batch: AIR/17876 Analysis Method: TO-15
 QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
 Associated Lab Samples: 10236207001, 10236207003

METHOD BLANK: 1488122 Matrix: Air

Associated Lab Samples: 10236207001, 10236207003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/m3	ND	0.81	07/26/13 13:38	
1,2-Dichloroethane	ug/m3	ND	0.41	07/26/13 13:38	
Chloroform	ug/m3	ND	0.99	07/26/13 13:38	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	07/26/13 13:38	
Tetrachloroethene	ug/m3	ND	0.69	07/26/13 13:38	
Trichloroethene	ug/m3	ND	0.55	07/26/13 13:38	
Vinyl chloride	ug/m3	ND	0.26	07/26/13 13:38	

LABORATORY CONTROL SAMPLE: 1488123

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/m3	40.3	36.7	91	64-136	
1,2-Dichloroethane	ug/m3	41.2	41.2	100	66-136	
Chloroform	ug/m3	49.7	49.5	100	66-129	
cis-1,2-Dichloroethene	ug/m3	40.3	39.0	97	73-135	
Tetrachloroethene	ug/m3	69	71.9	104	66-135	
Trichloroethene	ug/m3	54.6	52.2	95	68-134	
Vinyl chloride	ug/m3	26	23.4	90	64-134	
1,4-Dichlorobenzene-d4 (S)	%			106	72-131	
Hexane-d14 (S)	%			87	75-125	
Toluene-d8 (S)	%			99	62-129	

SAMPLE DUPLICATE: 1489056

Parameter	Units	5083964004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1-Dichloroethene	ug/m3	ND	ND			25
1,2-Dichloroethane	ug/m3	ND	ND			25
Chloroform	ug/m3	ND	ND			25
cis-1,2-Dichloroethene	ug/m3	9.3	9.1	2		25
Tetrachloroethene	ug/m3	8.4	8.3	.3		25
Trichloroethene	ug/m3	6.0	6.1	2		25
Vinyl chloride	ug/m3	ND	ND			25

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 1561-12-02 Site A Vapor TCAAP

Pace Project No.: 10236207

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.

PRL - Pace Reporting Limit.

RL - Reporting 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.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1561-12-02 Site A Vapor TCAAP

Pace Project No.: 10236207

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10236207001	SG07221301	TO-15	AIR/17876		
10236207002	SG07221302	TO-15	AIR/17870		
10236207003	SG07221303	TO-15	AIR/17876		
10236207004	SG07221304	TO-15	AIR/17870		
10236207005	SG07221305	TO-15	AIR/17870		
10236207006	SG07221306	TO-15	AIR/17870		
10236207007	SG07221307	TO-15	AIR/17870		
10236207008	SG07221308	TO-15	AIR/17870		
10236207009	SG07221309	TO-15	AIR/17870		
10236207010	SG07221310	TO-15	AIR/17870		
10236207011	SG07221311	TO-15	AIR/17870		
10236207012	SG07221312	TO-15	AIR/17870		
10236207013	SG07221313	TO-15	AIR/17870		
10236207014	SG07221314	TO-15	AIR/17870		
10236207015	SG07231301	TO-15	AIR/17870		
10236207016	SG07231302	TO-15	AIR/17870		

REPORT OF LABORATORY ANALYSIS

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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.

10236207

Section A Required Client Information:			Section B Required Project Information:			Section C Invoice Information:		
Company: <u>Wenck</u>			Report To: <u>Matt Bowes</u>			Attention: <u>Melissa Winterhalter</u>		
Address: <u>1800 Pioneer Creek Cir Maple Plain, MN 55359</u>			Copy To:			Company Name: <u>Wenck</u>		
Email To: <u>m.bowes@wenck.com</u>			Purchase Order No.:			Address:		
Phone: <u>953-479-4200</u> Fax: <u>953-479-4242</u>			Project Name: <u>Site A Vapor</u>			Pace Quote Reference:		
Requested Due Date/TAT:			Project Number: <u>1561-12-02</u>			Pace Project Manager/Sales Rep. <u>Marion Peranto</u>		
<p>*Section D Required Client Information</p> <p>AIR SAMPLE ID</p> <p>Sample IDs MUST BE UNIQUE</p>			<p>Valid Media Codes</p> <p>MEDIA</p> <p>TB</p> <p>1 Liter Summa Can 1LC</p> <p>6 Liter Summa Can 6LC</p> <p>Low Volume Puff LVP</p> <p>High Volume Puff HVP</p> <p>Other PM10</p>			Method:		
						<p>Method:</p> <p>PM10 _____</p> <p>3C-Fixed Gas (%) _____</p> <p>TO-3 _____</p> <p>TO-3M (Methane) _____</p> <p>TO-4 (PCBs) _____</p> <p>TO-13 (PAH) _____</p> <p>TO-14 _____</p> <p>TO-15 _____</p> <p>TO-15 Short List* _____</p>		
<p>Report Level I. _____ II. _____ III. _____ IV. _____ Other _____</p>			<p>Reporting Units</p> <p>ug/m³ _____</p> <p>ppbv _____</p> <p>ppmv _____</p> <p>Other _____</p>			<p>Location of Sampling by State _____</p> <p>Location of Reporting Units</p> <p>Location of Reporting Units</p>		
<p>Report Level I. _____ II. _____ III. _____ IV. _____ Other _____</p>			<p>Flow Control Number</p>			<p>Temp in °C</p>		

ITEM #	AIR SAMPLE ID	Media Code	COLLECTED		Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Pace Lab ID	REQUIRE DISPOSE BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
			DATE	TIME												Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
1	SG07221301	6LC	0.2	9:50	-26	0													
2	SG07221302	0.2			-27	0													
3	SG07221303	0.9	10:15		-27	0													
4	SG07221304	0.4	11:10		-27	0													
5	SG07221305	0.4	11:50		-26	0													
6	SG07221306	0.0	11:55		-25	0													
7	SG07221307	1.1	13:00		-25	0													
8	SG07221308	1.2	13:20		-25	-1													
9	SG07221309	0.7	13:40		-26	0													
10	SG07221310	1.0	14:10		-26	0													
11	SG07221311	0.4	14:40		-25	0													
12	SG07221312	0.1	15:15		-26	-2													

Comments: Analyze for:
 1,2 - Dichloroethane
 1,1 - Dichloroethane
 Chloroform
 cis-1,2 - Dichloroethane
 Tetrachloroethane
 Trichloroethane
 Vinyl Chloride ORIGINAL



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

10236207

Section A
Required Client Information:
 Company: Wenck
 Address: 1800 Pinner-Crk Cntr
Maple Plain, MN 55359
 Email To: mbowers@wenck.com
 Phone: 763-477-4200 Fax: 763-477-4242
 Requested Due Date/TAT:

Section B
Required Project Information:
 Report To: Matt Bowers
 Copy To:
 Purchase Order No.:
 Project Name: Site A Vapor
 Project Number: 1561-12-02

Section C
Invoice Information:
 Attention: Melissa Winkler
 Company Name: Wenck
 Address:
 Pace Quote Reference:
 Pace Project Manager/Sales Rep: Mariah Peranto
 Pace Profile #:

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

10747
 Page: 2 of 2
 10236207

Valid Media Codes

ITEM #	AIR SAMPLE ID Sample IDs MUST BE UNIQUE	MEDIA	CODE	COLLECTED		Summa Can Number	Flow Control Number	Method:	Pace Lab ID
				DATE	TIME				
1	SG07221313	Tedar Bag	11C	7/22/13	15:35	-27	0		TO-15
2	SG072213	1 Liter Summa Can	11C	7/22/13	16:05	-27	-1		TO-14
3	SG07231301	5 Liter Summa Can	6LC	7/23/13	8:55	-27	-1		TO-13 (PAM)
4	SG07231302	Low Volume Purif	LVP	7/23/13	9:30	-27	-2		TO-3M (Methane)
5		High Volume Purif	HVP						TO-3
6		Other	PM10						3C-Fixed Gas (%)
7									TO-3M (Methane)
8									TO-13 (PAM)
9									TO-14
10									TO-15
11									TO-15 Short List*
12									

Comments:
 Analyze for:
 1,2-Dichloroethane
 1,1-Dichloroethane
 Chloroform
 cis-1,2-Dichloroethene
 Tetrachloroethene
 Trichloroethene
 Vinyl Chloride ORIGINAL


RELIQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Ryan Lefers/Wenck	7/23/13	15:30	Ryan Lefers	7/23/13	15:30	Y/N Y/N Y/N Y/N Y/N

Temp in °C: _____
 Received on Ice: _____
 Custody Sealed Cooler: _____
 Samples Intact: _____

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Ryan Lefers
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed (MM/DD/YY): 07/23/13

Air Sample Condition Upon Receipt

Client Name: Worck **Project #:** _____

WO#: 10236207


Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Tracking Number: _____

Custody Seal on Cooler/Box Present? Yes No **Seals Intact?** Yes No **Optional:** Proj. Due Date: _____ Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags Foam None Other: _____

Temp. (TO17 and TO13 samples only) (°C): cool **Corrected Temp (°C):** _____ **Thermom. Used:** B88A912167504 80512447 72337080
Temp should be above freezing to 6°C **Correction Factor:** _____ **Date & Initials of Person Examining Contents:** 6/23/13

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Media: <u>10 cans 4 vac gauges</u>		11. <u>sample 14 is labeled SG07221314</u>
Sample Labels Match COC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.

Samples Received: <u>Canisters</u>					
Canisters		Flow Controllers		Stand-Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
SG07221301	pace 2148			SG07221311	pace 2152
11 02	11 2132			12	11 2151
11 03	11 2178			13	11 0533
11 04	11 2173			SG072213	11 0962
11 05	11 2097			SG072301	11 0445
11 06	11 2181			11 02	11 1354
11 07	11 2120				
11 08	11 2090				
11 09	11 2186				
11 10	11 2192				

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: Matt Bowers **Date/Time:** 7/24/13 16:37

Comments/Resolution: Sample ID SG072213 should actually be SG07221314 per email from matt.

Project Manager Review: Mariah Hunt **Date:** 7/24/13

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)

Fraction: TO15

Instrument: 10AIRD Method:
 Column: J&W DB-5 0.32mm Helium Tune Standard: 8137-92-17

 Misc. Prep. Info:
 ISTD Lot: 8137-92-17

 Surrogate Lot: 8137-92-17
 Cal. Standard: 8137-94-4/8137-94-5

Path/File	Lab ID	Matrix/Batch	Type	DF	pH	Method	Date & Time	Oper.	Comments
20501BFB.D	BFB	L/	Tune	1		50NG_BFB	7/24/13 12:36	DR1	
20502.D	CCAL	G/	CCal	1		TO15_203-13	7/24/13 13:04	DR1	
20503BFB.D	BFB	L/	Tune	1		50NG_BFB	7/24/13 13:45	DR1	
20504.D	CAL1	G/	Ical	1		TO15_205-13	7/24/13 14:12	DR1	
20505.D	CAL2	G/	Ical	1		TO15_205-13	7/24/13 14:40	DR1	
20506.D	CAL3	G/	Ical	1		TO15_205-13	7/24/13 15:08	DR1	
20507.D	CAL4	G/	Ical	1		TO15_205-13	7/24/13 15:36	DR1	
20508.D	CAL5	G/	Ical	1		TO15_205-13	7/24/13 16:06	DR1	
20509.D	CAL6	G/	Ical	1		TO15_205-13	7/24/13 16:39	DR1	
20510.D	ICV	G/	LCS	1		TO15_205-13	7/24/13 17:07	DR1	8137-85-16
20511L.D	1486238	G/17860	LCS	1		TO15_205-13	7/24/13 17:35	DR1	
20511.D	LCS	G/	LCS	1		TO15_205-13	7/24/13 17:35	DR1	
20511LT.D	1486802	G/17866	LCS	1		TO15_205-13	7/24/13 17:35	DR1	
20512.D	0	G/	Sample	1		TO15_205-13	7/24/13 18:03	DR1	
20513.D	BLANK	G/	Blank	1		TO15_205-13	7/24/13 18:33	DR1	
20513L.D	1486237	G/17860	Blank	1		TO15_205-13	7/24/13 18:33	DR1	
20513LT.D	1486801	G/17866	Blank	1		TO15_205-13	7/24/13 18:33	DR1	
20514.D	10235314003	G/17856	Sample	1984		TO15_205-13	7/24/13 19:01	DR1	
20515.D	3098565001	G/17860	Sample	4.032		TO15_205-13	7/24/13 19:31	DR1	
20516.D	10235314001	G/17860	Sample	1.49		TO15_205-13	7/24/13 20:01	DR1	
20517.D	10236127003	G/17866	Sample	1.34		TO15_205-13	7/24/13 20:32	DR1	
20518.D	1486906	G/17866	Duplicate	1.34		TO15_205-13	7/24/13 21:03	DR1	
20519.D	10236127001	G/17866	Sample	1.34		TO15_205-13	7/24/13 21:33	DR1	
20520.D	-DUP	G/17866	Duplicate	1.34		TO15_205-13	7/24/13 22:03	DR1	
20521.D	10236127002	G/17866	Sample	1.49		TO15_205-13	7/24/13 22:34	DR1	
20522.D	10236188001	G/17860	Sample	1.8		TO15_205-13	7/24/13 23:06	DR1	
20523.D	10235407018	G/17860	Sample	451.584		TO15_205-13	7/24/13 23:34	DR1	
20524.D	10235407016	G/17860	Sample	935.424		TO15_205-13	7/25/13 00:02	DR1	
20525.D	10235407012	G/17860	Sample	4.742		TO15_205-13	7/25/13 00:32	DR1	
20526.D	10235407015	G/17860	Sample	225.792		TO15_205-13	7/25/13 00:59	DR1	
20527.D	10235407013	G/17848	Sample	24.555		TO15_205-13	7/25/13 01:27	DR1	
20528.D	10235407017	G/17860	Sample	3034.64		TO15_205-13	7/25/13 01:54	DR1	
20529.D	10235407014	G/17860	Sample	4.742		TO15_205-13	7/25/13 02:25	DR1	
20530.D	92165848002	G/17860	Sample	1.44		TO15_205-13	7/25/13 02:55	DR1	
20531.D	92165848001	G/17860	Sample	1.7956		TO15_205-13	7/25/13 03:26	DR1	
20532.D	10236055002	G/17860	Sample	1.8		TO15_205-13	7/25/13 03:56	DR1	
20533.D	10236055001	G/17860	Sample	1.74		TO15_205-13	7/25/13 04:27	DR1	
20534.D	10235583003	G/17860	Sample	1.94		TO15_205-13	7/25/13 04:58	DR1	
20535.D	10235583001	G/17860	Sample	1.8		TO15_205-13	7/25/13 05:28	DR1	
20536.D	10235583002	G/17860	Sample	1.8		TO15_205-13	7/25/13 06:00	DR1	
20537.D	0	G/	Sample	1		TO15_205-13	7/25/13 07:28	DR1	
20538.D	CERT	G/	Sample	1		TO15_205-13	7/25/13 07:59	DR1	
20539.D	CERT	G/	Sample	1		TO15_205-13	7/25/13 08:42	DR1	
20540.D	10236188001	G/17860	Sample	1152		TO15_205-13	7/25/13 09:11	DR1	
20541.D	CERT	G/	Sample	1		TO15_205-13	7/25/13 09:42	DR1	
20542.D	CERT	G/	Sample	1		TO15_205-13	7/25/13 10:12	DR1	

Instrument: 10AIRD	Method:	Misc. Prep. Info:	Surrogate Lot: 8137-92-17
Column: J&W DB-5 0.32mm Helium	Tune Standard: 8137-92-17	ISTD Lot: 8137-92-17	Cal. Standard: 8137-94-4/8137-94-5

Path/File	Lab ID	Matrix/Batch	Type	DF	pH	Method	Date & Time	Oper.	Comments
20543.D	CERT	G/	Sample	1		TO15_205-13	7/25/13 10:44	DR1	
20544.D	92165848002	G/17860	Sample	460.8		TO15_205-13	7/25/13 11:11	DR1	
20545.D	92165848001	G/17860	Sample	574.592		TO15_205-13	7/25/13 11:39	DR1	
20546.D	10235407015	G/17860	Sample	1806.336		TO15_205-13	7/25/13 12:13	DR1	

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\1072413.B\
 Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one

Run order verified:

 Report Date: 07/25/2013 12:52
 Reviewed By/Date:

Instrument: 10AIRD Method:
 Column: J&W DB-5 0.32mm Helium Tune Standard: 8137-92-17

 Misc. Prep. Info:
 ISTD Lot: 8137-92-17

 Surrogate Lot: 8137-92-17
 Cal. Standard: 8137-94-5

Path/File	Lab ID	Matrix/Batch	Type	DF	pH	Method	Date & Time	Oper.	Comments
20601BFB.D	BFB	L/	Tune	1		50NG_BFB	7/25/13 12:41	DR1	
20602.D	CCAL	G/	CCal	1		TO15_205-13	7/25/13 13:08	DR1	
20602L.D	1487047	G/17870	LCS	1		TO15_205-13	7/25/13 13:08	DR1	
20603.D	0	G/	Sample	1		TO15_205-13	7/25/13 13:46	DR1	
20604.D	CERT	G/	Sample	1		TO15_205-13	7/25/13 14:17	DR1	
20605L.D	1487046	G/17870	Blank	1		TO15_205-13	7/25/13 14:47	CJR	
20605.D	BLANK	G/	Blank	1		TO15_205-13	7/25/13 14:47	CJR	
20606.D	92165855006	G/17861	Sample	1.39		TO15_205-13	7/25/13 15:37	CJR	
20607.D	92165855007	G/17861	Sample	3.36		TO15_205-13	7/25/13 16:07	CJR	
20608.D	92165165001	G/17861	Sample	9879.552		TO15_205-13	7/25/13 16:35	CJR	
20609.D	10235541011	G/17863	Sample	268.8		TO15_205-13	7/25/13 17:02	DR1	
20610.D	10235407018	G/17870	Sample	451.58		TO15_205-13	7/25/13 17:30	DR1	
20611.D	10235583003	G/17870	Sample	3.2592		TO15_205-13	7/25/13 18:00	DR1	
20612.D	10235583002	G/17870	Sample	60.48		TO15_205-13	7/25/13 18:28	DR1	
20613.D	10235583001	G/17870	Sample	36		TO15_205-13	7/25/13 18:56	DR1	
20614.D	10236055001	G/17870	Sample	1.74		TO15_205-13	7/25/13 19:27	DR1	
20615.D	10236055002	G/17870	Sample	18		TO15_205-13	7/25/13 19:55	DR1	
20616.D	10236207012	G/17870	Sample	1.55		TO15_205-13	7/25/13 20:25	DR1	
20617.D	1487813	G/17870	Duplicate	1.55		TO15_205-13	7/25/13 20:56	DR1	
20618.D	10236207005	G/17870	Sample	1.44		TO15_205-13	7/25/13 21:26	DR1	
20619.D	-DUP	G/17870	Duplicate	1.44		TO15_205-13	7/25/13 21:57	DR1	
20620.D	10236207011	G/17870	Sample	1.49		TO15_205-13	7/25/13 22:27	DR1	
20621.D	MISINJ	G/	Sample	1		TO15_205-13	7/25/13 22:58	DR1	
20622.D	10236207001	G/17870	Sample	1.44		TO15_205-13	7/25/13 23:29	DR1	
20623.D	10236207007	G/17870	Sample	1.44		TO15_205-13	7/25/13 23:59	DR1	
20624.D	10236207016	G/17870	Sample	1.49		TO15_205-13	7/26/13 00:30	DR1	
20625.D	10236207010	G/17870	Sample	1.44		TO15_205-13	7/26/13 01:00	DR1	
20626.D	10236207008	G/17870	Sample	1.49		TO15_205-13	7/26/13 01:31	DR1	
20627.D	10236207014	G/17870	Sample	1.61		TO15_205-13	7/26/13 02:01	DR1	
20628.D	10236207006	G/17870	Sample	1.44		TO15_205-13	7/26/13 02:32	DR1	
20629.D	10236207009	G/17870	Sample	1.44		TO15_205-13	7/26/13 03:02	DR1	
20630.D	10236207013	G/17870	Sample	1.49		TO15_205-13	7/26/13 03:33	DR1	
20631.D	10236207003	G/17870	Sample	1.49		TO15_205-13	7/26/13 04:03	DR1	
20632.D	10236207004	G/17870	Sample	1.49		TO15_205-13	7/26/13 04:34	DR1	
20633.D	10236207015	G/17870	Sample	1.44		TO15_205-13	7/26/13 05:04	DR1	
20634.D	10236207002	G/17870	Sample	1.44		TO15_205-13	7/26/13 05:34	DR1	
20635.D	0	G/	Sample	1		TO15_205-13	7/26/13 07:23	DR1	
20636.D	CERT	G/	Sample	1		TO15_205-13	7/26/13 07:53	DR1	
20637.D	CERT	G/	Sample	1		TO15_205-13	7/26/13 08:24	DR1	
20638.D	CERT	G/	Sample	1		TO15_205-13	7/26/13 08:54	DR1	
20639.D	CERT	G/	Sample	1		TO15_205-13	7/26/13 09:25	DR1	
20640.D	CERT	G/	Sample	1		TO15_205-13	7/26/13 09:55	DR1	
20641.D	10235583003	G/17870	Sample	32.592		TO15_205-13	7/26/13 10:22	DR1	

Instrument: 10AIRD	Method:	Misc. Prep. Info:	Surrogate Lot: 8137-92-17
Column: J&W DB-5 0.32mm Helium	Tune Standard: 8137-92-17	ISTD Lot: 8137-92-17	Cal. Standard: 8137-94-5

Path/File	Lab ID	Matrix/Batch	Type	DF	pH	Method	Date & Time	Oper.	Comments
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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.1\072513.B\
 Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one

Run order verified:

 Report Date: 07/26/2013 11:20
 Reviewed By/Date:

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

 Method:
 Tune Standard: 8137-92-17

 Misc. Prep. Info:
 ISTD Lot: 8137-92-17

 Surrogate Lot: 8137-92-17
 Cal. Standard: 8137-94-5

Path/File	Lab ID	Matrix/Batch	Type	DF	pH	Method	Date & Time	Oper.	Comments
20701BFB.D	BFB	L/	Tune	1		50NG_BFB	7/26/13 10:59	DR1	
20702A.D	1488129	G/17877	LCS	1		TO15_205-13	7/26/13 11:27	DR1	
20702.D	CCAL	G/	CCal	1		TO15_205-13	7/26/13 11:27	DR1	
20702L.D	1488123	G/17876	LCS	1		TO15_205-13	7/26/13 11:27	DR1	
20703.D	0	G/	Sample	1		TO15_205-13	7/26/13 12:06	DR1	
20704.D	IC	G/	Sample	1		TO15_205-13	7/26/13 12:37	DR1	
20705.D	IC	G/	Sample	1		TO15_205-13	7/26/13 13:07	DR1	
20706A.D	1488128	G/17877	Blank	1		TO15_205-13	7/26/13 13:38	DR1	
20706.D	IC	G/	Sample	1		TO15_205-13	7/26/13 13:38	DR1	
20706L.D	1488122	G/17876	Blank	1		TO15_205-13	7/26/13 13:38	DR1	
20707.D	10236207001	G/17876	Sample	1.44		TO15_205-13	7/26/13 14:08	DR1	
20708.D	10236207003	G/17876	Sample	1.9966		TO15_205-13	7/26/13 14:39	DR1	
20709.D	5083964003	G/17876	Sample	1.49		TO15_205-13	7/26/13 15:10	DR1	
20710.D	-DUP	G/17876	Duplicate	1.49		TO15_205-13	7/26/13 15:40	DR1	
20711.D	5083964004	G/17876	Sample	1.61		TO15_205-13	7/26/13 16:11	DR1	
20712.D	1489056	G/17876	Duplicate	1.61		TO15_205-13	7/26/13 16:41	DR1	
20713.D	5083964002	G/17876	Sample	1.55		TO15_205-13	7/26/13 17:11	DR1	
20714.D	5083964005	G/17876	Sample	1.61		TO15_205-13	7/26/13 17:42	DR1	
20715.D	5083964001	G/17876	Sample	1.55		TO15_205-13	7/26/13 18:12	DR1	
20716.D	10236154001	G/17876	Sample	1.55		TO15_205-13	7/26/13 18:43	DR1	
20717.D	10235747001	G/17876	Sample	1.44		TO15_205-13	7/26/13 19:13	DR1	
20718.D	60149323002	G/17876	Sample	2.88		TO15_205-13	7/26/13 19:44	DR1	
20719.D	60149323004	G/17876	Sample	3.36		TO15_205-13	7/26/13 20:14	DR1	
20720.D	60149323003	G/17876	Sample	2.52		TO15_205-13	7/26/13 20:45	DR1	
20721.D	60149323001	G/17876	Sample	1.61		TO15_205-13	7/26/13 21:15	DR1	
20722.D	10235724004	G/17876	Sample	2.24		TO15_205-13	7/26/13 21:45	DR1	
20723.D	10235724003	G/17876	Sample	1.75		TO15_205-13	7/26/13 22:16	DR1	
20724.D	10235724002	G/17876	Sample	1.44		TO15_205-13	7/26/13 22:46	DR1	
20725.D	10235724001	G/17876	Sample	1.49		TO15_205-13	7/26/13 23:17	DR1	
20726.D	92166053002	G/17877	Sample	5427.2		TO15_205-13	7/26/13 23:44	DR1	
20727.D	92166053001	G/17877	Sample	4684.8		TO15_205-13	7/27/13 00:12	DR1	
20728.D	92165843014	G/17877	Sample	28.8		TO15_205-13	7/27/13 00:40	DR1	

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\1072613.B\
 Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one

Run order verified:

 Report Date: 07/29/2013 10:02
 Reviewed By/Date:

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2013 14:12
 End Cal Date : 24-JUL-2013 16:39
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\192.168.10.12\chem\10airD.i\072413.b\TO15_205-13.m
 Last Edit : 25-Jul-2013 07:24 drandall

Calibration File Names:

Level 1: \\192.168.10.12\chem\10airD.i\072413.b\20504.d
 Level 2: \\192.168.10.12\chem\10airD.i\072413.b\20505.d
 Level 3: \\192.168.10.12\chem\10airD.i\072413.b\20506.d
 Level 4: \\192.168.10.12\chem\10airD.i\072413.b\20507.d
 Level 5: \\192.168.10.12\chem\10airD.i\072413.b\20508.d
 Level 6: \\192.168.10.12\chem\10airD.i\072413.b\20509.d

Compound	0.1000000	0.2000000	1.0000	10.0000	20.0000	30.0000	Curve	Coefficients			%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
1 Propylene	598	1467	6143	71678	157114	250479	LINR	0.01178	0.12694		0.99975
2 Dichlorodifluoromethane	1.43246	1.32113	1.22674	1.14182	1.09950	1.07322	AVRG		1.21581		11.46450
3 Dichlorotetrafluoroethane	1.11341	1.06704	0.95137	0.93521	0.90890	0.88582	AVRG		0.97696		9.38917
4 Chloromethane	0.31940	0.29952	0.26705	0.26552	0.25638	0.25767	AVRG		0.27759		9.30020
5 Vinyl chloride	0.31750	0.30128	0.25711	0.26370	0.25834	0.26285	AVRG		0.27680		9.35276
6 1,3-Butadiene	0.16194	0.17560	0.15335	0.15959	0.16383	0.16597	AVRG		0.16338		4.52467
7 Bromomethane	0.40114	0.37484	0.33324	0.32543	0.31711	0.33977	AVRG		0.34859		9.33181
8 Chloroethane	0.16090	0.15011	0.13470	0.13144	0.13322	0.13911	AVRG		0.14158		8.19071
9 Ethanol	++++	0.17340	0.14098	0.13185	0.14137	0.13662	AVRG		0.14485		11.33865
10 Vinyl Bromide	0.41645	0.35630	0.31628	0.32922	0.32382	0.32603	AVRG		0.34468		10.94397
11 Acrolein	363	810	4505	54068	119156	186644	LINR	0.01058	0.09508		0.99996
12 Trichlorofluoromethane	1.61247	1.49119	1.29644	1.26067	1.16852	1.10598	AVRG		1.32254		14.64731
13 Acetone	1.02754	0.71171	0.60438	0.56416	0.54027	0.52960	AVRG		0.66294		28.72546
14 Isopropyl Alcohol	0.55980	0.44585	0.37839	0.42507	0.40480	0.39495	AVRG		0.43481		15.08550

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2013 14:12
 End Cal Date : 24-JUL-2013 16:39
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\192.168.10.12\chem\10airD.i\072413.b\TO15_205-13.m
 Last Edit : 25-Jul-2013 07:24 drandall

Compound	0.1000000	0.2000000	1.0000	10.0000	20.0000	30.0000	Curve	Coefficients			%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
15 1,1-Dichloroethene	0.69524	0.61381	0.56027	0.57962	0.54206	0.53803	AVRG		0.58817		10.09075
16 Acrylonitrile	849	1826	9857	115367	241605	391459	LINR	0.00921	0.19772		0.99939
17 Tert Butyl Alcohol	0.91482	0.69932	0.63043	0.65700	0.64368	0.62771	AVRG		0.69550		15.89595
18 Freon 113	1.05094	0.96017	0.85709	0.84408	0.79934	0.78398	AVRG		0.88260		11.68176
19 Methylene chloride	++++	0.48865	0.36844	0.35064	0.33361	0.33667	AVRG		0.37560		17.22004
20 Allyl Chloride	0.13629	0.12876	0.13554	0.14859	0.14622	0.15018	AVRG		0.14093		6.11285
21 Carbon Disulfide	1.43900	1.13586	0.97937	1.02953	0.97719	0.99714	AVRG		1.09302		16.42210
22 trans-1,2-dichloroethene	0.40165	0.39391	0.35093	0.37957	0.36926	0.37201	AVRG		0.37789		4.82214
23 Methyl Tert Butyl Ether	1.07521	0.76673	0.85830	0.95677	0.96146	0.97525	AVRG		0.93229		11.41282
24 Vinyl Acetate	3142	6380	32699	416883	905164	1398540	LINR	0.00496	0.71491		0.99995
25 1,1-Dichloroethane	0.70487	0.70266	0.62701	0.65432	0.63050	0.61784	AVRG		0.65620		5.90805
27 Methyl Ethyl Ketone	0.15832	0.13227	0.14470	0.16617	0.15913	0.16031	AVRG		0.15348		8.18968
28 n-Hexane	0.47376	0.47204	0.42595	0.43358	0.40785	0.42071	AVRG		0.43898		6.28412
29 cis-1,2-Dichloroethene	1627	3243	16249	190331	428292	707334	LINR	0.02871	0.35638		0.99940
30 Ethyl Acetate	2362	3382	21971	272944	634668	1019802	LINR	0.02944	0.51752		0.99906
31 Chloroform	0.86922	0.81173	0.75122	0.81969	0.81704	0.83396	AVRG		0.81714		4.70047
32 Tetrahydrofuran	496	899	6892	108934	244926	406611	LINR	0.03952	0.20548		0.99828
33 1,1,1-Trichloroethane	0.87541	0.81209	0.82264	0.92208	0.91288	0.91132	AVRG		0.87607		5.51314
34 1,2-Dichloroethane	0.64223	0.57320	0.55849	0.64167	0.61406	0.61121	AVRG		0.60681		5.71153
35 Benzene	3866	6919	35586	484923	1114889	1855595	LINR	0.03936	0.93578		0.99779
36 Carbon tetrachloride	0.96077	0.91675	0.88117	1.00998	0.95921	0.91712	AVRG		0.94083		4.80517
37 Cyclohexane	1091	2029	12525	178983	425277	704383	LINR	0.04622	0.35619		0.99752

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2013 14:12
 End Cal Date : 24-JUL-2013 16:39
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\192.168.10.12\chem\10airD.i\072413.b\TO15_205-13.m
 Last Edit : 25-Jul-2013 07:24 drandall

Compound	0.1000000	0.2000000	1.0000	10.0000	20.0000	30.0000	Curve	Coefficients			%RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	or R ²
39 2,2,4-Trimethylpentane	3648	7149	41700	560310	1296294	2147818	LINR	0.03967	1.08443		0.99794
40 Heptane	933	1829	13056	180631	425068	703828	LINR	0.04426	0.35581		0.99772
41 1,2-Dichloropropane	1161	2299	11313	146979	339638	561074	LINR	0.03676	0.28321		0.99807
42 Trichloroethene	1310	2666	13513	189383	456634	772238	LINR	0.05412	0.38914		0.99596
43 1,4-Dioxane	115	261	5139	88039	205659	325591	LINR	0.03657	0.16650		0.99943
44 Bromodichloromethane	4590	8253	43225	537547	1161953	1833083	LINR	0.00896	0.93207		0.99992
45 Methyl Isobutyl Ketone	1457	2363	16374	268956	615766	1009496	LINR	0.03942	0.51160		0.99861
46 cis-1,3-Dichloropropene	1505	2984	19995	281800	633437	1040841	LINR	0.03346	0.52632		0.99872
47 trans-1,3-Dichloropropene	1295	2580	17366	319593	735267	1194806	LINR	0.04005	0.60720		0.99889
49 Toluene	4344	7427	42639	624331	1475852	2421853	LINR	0.04255	1.22656		0.99805
50 1,1,2-Trichloroethane	1705	3196	16004	218875	509640	838093	LINR	0.03816	0.42372		0.99817
51 Methyl Butyl Ketone	861	1784	14464	268647	605329	998198	LINR	0.03306	1.30701		0.99938
52 Dibromochloromethane	2691	5177	29111	413209	928734	1468306	LINR	0.01262	1.93390		0.99986
53 1,2-Dibromoethane	2229	3897	23125	341622	786329	1277318	LINR	0.02598	1.67375		0.99944
54 Tetrachloroethene	2078	3660	20377	309066	740015	1219067	LINR	0.03791	1.59481		0.99846
56 Chlorobenzene	3413	5466	29337	407316	957687	1594094	LINR	0.03465	2.07757		0.99840
57 Ethyl Benzene	3265	5838	47007	804065	1848303	3011647	LINR	0.03156	3.95191		0.99943
58 m&p-Xylene	2647	4157	38768	647710	1467337	2396346	LINR	0.02928	3.14174		0.99955
59 Bromoform	3066	4685	26790	435698	999486	1614133	LINR	0.02565	2.11935		0.99957
60 Styrene	1161	2016	20488	412859	959097	1618524	LINR	0.04725	2.11282		0.99820
61 o-Xylene	2665	4816	44715	687174	1539287	2464397	LINR	0.01991	3.24224		0.99988
62 1,1,2,2-Tetrachloroethane	3123	5330	25903	391648	881865	1439646	LINR	0.02235	1.88281		0.99956

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2013 14:12
 End Cal Date : 24-JUL-2013 16:39
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\192.168.10.12\chem\10airD.i\072413.b\TO15_205-13.m
 Last Edit : 25-Jul-2013 07:24 drandall

Compound	0.1000000	0.2000000	1.0000	10.0000	20.0000	30.0000	Curve	Coefficients			%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
63 Isopropylbenzene	5790	8781	52278	851143	1944777	3146350	LINR	0.02562	4.12955		0.99959
64 N-Propylbenzene	3862	5957	53920	1024653	2328723	3774204	LINR	0.03032	4.96212		0.99963
65 4-Ethyltoluene	2549	4151	41970	781913	1819880	2938195	LINR	0.03372	3.86831		0.99944
66 1,3,5-Trimethylbenzene	2418	4492	40316	697148	1587896	2587970	LINR	0.03055	3.39602		0.99954
67 1,2,4-Trimethylbenzene	1655	3040	28266	656662	1531165	2499072	LINR	0.04064	3.28754		0.99921
68 1,3-Dichlorobenzene	1991	3029	20428	395622	937380	1545425	LINR	0.04208	2.02585		0.99868
69 Sec- Butylbenzene	2907	5351	49537	931653	2122231	3461034	LINR	0.03252	4.54449		0.99952
71 Benzyl Chloride	2868	4461	26556	569442	1311772	2162623	LINR	0.03829	2.83460		0.99909
72 1,4-Dichlorobenzene	2775	4268	22882	384440	904829	1513446	LINR	0.04096	1.97456		0.99824
73 1,2-Dichlorobenzene	1775	2665	16908	330351	775997	1275151	LINR	0.03946	1.67222		0.99891
74 N-Butylbenzene	1934	3605	38681	720417	1634656	2639238	LINR	0.02928	3.47325		0.99971
75 1,2,4-Trichlorobenzene	1081	1682	10899	208176	551490	940377	QUAD	0.02914	1.01334	-0.05787	0.99878
76 Naphthalene	927	1699	13607	319830	852884	1458422	QUAD	0.03500	0.65478	-0.02448	0.99870
77 Hexachlorobutadiene	2045	3393	17285	239804	607525	1000076	LINR	0.04565	1.30960		0.99712
=====											
\$ 26 Hexane-d14 (S)	0.49106	0.48892	0.48669	0.48285	0.47958	0.46826	AVRG		0.48289		1.71410
\$ 48 Toluene-d8 (S)	0.65757	0.67014	0.68442	0.72990	0.71034	0.73800	AVRG		0.69840		4.69008
\$ 70 1,4-dichlorobenzene-d4 (S)	0.36999	0.34931	0.41300	0.42277	0.44335	0.42345	AVRG		0.40365		8.93768

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-JUL-2013 14:12
End Cal Date : 24-JUL-2013 16:39
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airD.i\072413.b\T015_205-13.m
Last Edit : 25-Jul-2013 07:24 drandall

Average %RSD Results.	
Calculated Average %RSD =	22.19441
Maximum Average %RSD =	40.00000
* Passed Average %RSD Test.	

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

Data File: \\192.168.10.12\chem\10airD.i\072413.b\20504.d
 Report Date: 25-Jul-2013 07:28

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072413.b\20504.d
 Lab Smp Id: CAL1
 Inj Date : 24-JUL-2013 14:12
 Operator : DR1 Inst ID: 10airD.i
 Smp Info :
 Misc Info :
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\072413.b\TO15_205-13.m
 Meth Date : 25-Jul-2013 07:24 drandall Quant Type: ISTD
 Cal Date : 24-JUL-2013 14:12 Cal File: 20504.d
 Als bottle: 4 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10AIRPC4

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	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ppbv)	ON-COL (ppbv)
1 Propylene	41		2.988	2.988	(0.491)	598	0.10000	0.0866 (M)
2 Dichlorodifluoromethane	85		3.011	3.011	(0.495)	8324	0.10000	0.118
3 Dichlorotetrafluoroethane	85		3.103	3.103	(0.510)	6470	0.10000	0.114
4 Chloromethane	50		3.106	3.106	(0.510)	1856	0.10000	0.115 (M)
5 Vinyl chloride	62		3.195	3.195	(0.525)	1845	0.10000	0.115 (M)
6 1,3-Butadiene	54		3.234	3.234	(0.531)	941	0.10000	0.0991
7 Bromomethane	94		3.398	3.398	(0.558)	2331	0.10000	0.115 (M)
8 Chloroethane	64		3.447	3.447	(0.566)	935	0.10000	0.100 (M)
9 Ethanol	31		3.529	3.529	(0.580)	1615	0.10000	0.162 (M)
10 Vinyl Bromide	106		3.581	3.581	(0.588)	2420	0.10000	0.121 (M)
11 Acrolein	56		3.722	3.722	(0.612)	363	0.10000	0.0817 (M)
12 Trichlorofluoromethane	101		3.696	3.696	(0.607)	9370	0.10000	0.122 (M)
13 Acetone	43		3.782	3.782	(0.621)	5971	0.10000	0.161 (M)
14 Isopropyl Alcohol	45		3.785	3.785	(0.622)	3253	0.10000	0.132 (M)
15 1,1-Dichloroethene	61		3.982	3.982	(0.654)	4040	0.10000	0.118
16 Acrylonitrile	53		4.034	4.034	(0.663)	849	0.10000	0.101 (M)
17 Tert Butyl Alcohol	59		4.008	4.008	(0.658)	5316	0.10000	0.100 (M)
18 Freon 113	101		4.034	4.034	(0.663)	6107	0.10000	0.119
19 Methylene chloride	49		4.096	4.096	(0.673)	3700	0.10000	0.152
20 Allyl Chloride	76		4.109	4.109	(0.675)	792	0.10000	0.0938 (M)
21 Carbon Disulfide	76		4.231	4.231	(0.695)	8362	0.10000	0.132 (M)
22 trans-1,2-dichloroethene	96		4.421	4.421	(0.726)	2334	0.10000	0.106 (M)
23 Methyl Tert Butyl Ether	73		4.477	4.477	(0.735)	6248	0.10000	0.100

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
24 Vinyl Acetate	43		4.601	4.601	(0.756)	3142	0.10000	0.0805 (M)	
25 1,1-Dichloroethane	63		4.578	4.578	(0.752)	4096	0.10000	0.107	
\$ 26 Hexane-d14 (S)	66		4.696	4.696	(0.772)	285354	10.0000	10.2	
27 Methyl Ethyl Ketone	72		4.818	4.818	(0.792)	920	0.10000	0.114 (M)	
28 n-Hexane	57		4.815	4.815	(0.791)	2753	0.10000	0.103	
29 cis-1,2-Dichloroethene	96		4.972	4.972	(0.817)	1627	0.10000	0.0892	
30 Ethyl Acetate	43		5.024	5.024	(0.825)	2362	0.10000	0.100 (M)	
31 Chloroform	83		5.110	5.110	(0.839)	5051	0.10000	0.106 (M)	
32 Tetrahydrofuran	42		5.352	5.352	(0.879)	496	0.10000	0.0535 (M)	
33 1,1,1-Trichloroethane	97		5.595	5.595	(0.919)	5087	0.10000	0.0999 (M)	
34 1,2-Dichloroethane	62		5.615	5.615	(0.922)	3732	0.10000	0.110 (M)	
35 Benzene	78		5.880	5.880	(0.966)	3866	0.10000	0.0873	
36 Carbon tetrachloride	117		5.900	5.900	(0.969)	5583	0.10000	0.102	
37 Cyclohexane	56		5.913	5.913	(0.971)	1091	0.10000	0.0630 (M)	
* 38 1,4-Difluorobenzene	114		6.087	6.087	(1.000)	581097	10.0000		
39 2,2,4-Trimethylpentane	57		6.261	6.261	(1.029)	3648	0.10000	0.0740 (M)	
40 Heptane	43		6.438	6.438	(1.058)	933	0.10000	0.0573 (M)	
41 1,2-Dichloropropane	63		6.503	6.503	(1.068)	1161	0.10000	0.100 (M)	
42 Trichloroethene	130		6.536	6.536	(1.074)	1310	0.10000	0.0788 (M)	
43 1,4-Dioxane	88		6.730	6.730	(1.106)	115	0.10000	0.100 (M)	
44 Bromodichloromethane	83		6.648	6.648	(1.092)	4590	0.10000	0.0935	
45 Methyl Isobutyl Ketone	43		7.241	7.241	(1.190)	1457	0.10000	0.0733 (M)	
46 cis-1,3-Dichloropropene	75		7.281	7.281	(1.196)	1505	0.10000	0.0648 (M)	
47 trans-1,3-Dichloropropene	75		7.776	7.776	(1.277)	1295	0.10000	0.0490 (M)	
\$ 48 Toluene-d8 (S)	98		7.841	7.841	(1.288)	382112	10.0000	9.42	
49 Toluene	91		7.940	7.940	(1.304)	4344	0.10000	0.0795	
50 1,1,2-Trichloroethane	97		7.940	7.940	(1.304)	1705	0.10000	0.0851 (M)	
51 Methyl Butyl Ketone	43		8.268	8.268	(0.853)	861	0.10000	0.0531 (M)	
52 Dibromochloromethane	129		8.556	8.556	(0.883)	2691	0.10000	0.0904 (M)	
53 1,2-Dibromoethane	107		8.825	8.825	(0.911)	2229	0.10000	0.0923	
54 Tetrachloroethene	166		8.917	8.917	(0.920)	2078	0.10000	0.0902 (M)	
* 55 Chlorobenzene - d5	117		9.688	9.688	(1.000)	180160	10.0000		
56 Chlorobenzene	112		9.733	9.733	(1.005)	3413	0.10000	0.104 (M)	
57 Ethyl Benzene	91		10.042	10.042	(1.037)	3265	0.10000	0.0577 (M)	
58 m&p-Xylene	91		10.209	10.209	(1.054)	2647	0.10000	0.0646 (M)	
59 Bromoform	173		10.648	10.648	(1.099)	3066	0.10000	0.0966 (M)	
60 Styrene	104		10.711	10.711	(1.106)	1161	0.10000	0.0482 (M)	
61 o-Xylene	91		10.786	10.786	(1.113)	2665	0.10000	0.0622 (M)	
62 1,1,2,2-Tetrachloroethane	83		11.088	11.088	(1.145)	3123	0.10000	0.103	
63 Isopropylbenzene	105		11.455	11.455	(1.182)	5790	0.10000	0.0945 (M)	
64 N-Propylbenzene	91		12.121	12.121	(1.251)	3862	0.10000	0.141 (M)	
65 4-Ethyltoluene	105		12.311	12.311	(1.271)	2549	0.10000	0.0479 (M)	
66 1,3,5-Trimethylbenzene	105		12.419	12.419	(1.282)	2418	0.10000	0.0554 (M)	
67 1,2,4-Trimethylbenzene	105		13.013	13.013	(1.343)	1655	0.10000	0.0435 (M)	
68 1,3-Dichlorobenzene	146		13.373	13.373	(1.380)	1991	0.10000	0.0717 (M)	
69 Sec- Butylbenzene	105		13.393	13.393	(1.382)	2907	0.10000	0.0514 (M)	
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.449	13.449	(1.388)	66658	10.0000	8.44 (M)	
71 Benzyl Chloride	91		13.482	13.482	(1.392)	2868	0.10000	0.0805 (M)	
72 1,4-Dichlorobenzene	146		13.492	13.492	(1.393)	2775	0.10000	0.0970 (M)	
73 1,2-Dichlorobenzene	146		14.042	14.042	(1.450)	1775	0.10000	0.0821 (M)	
74 N-Butylbenzene	91		14.331	14.331	(1.479)	1934	0.10000	0.0462 (M)	
75 1,2,4-Trichlorobenzene	180		16.692	16.692	(1.723)	1081	0.10000	0.0668 (M)	
76 Naphthalene	128		16.873	16.873	(1.742)	927	0.10000	0.0405 (M)	
77 Hexachlorobutadiene	225		17.230	17.230	(1.779)	2045	0.10000	0.102 (M)	

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Report Date: 25-Jul-2013 07:28

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\072413.b\20504.d
Report Date: 25-Jul-2013 07:28

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 20504.d
Lab Smp Id: CAL1
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\072413.b\TO15_205-13.m
Misc Info:

Calibration Date: 24-JUL-2013
Calibration Time: 15:36

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	581097	0.23
55 Chlorobenzene - d	221404	132842	309966	180160	-18.63

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	-0.06
55 Chlorobenzene - d	9.69	9.36	10.02	9.69	-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\072413.b\20504.D

Date : 24-JUL-2013 14:12

Client ID:

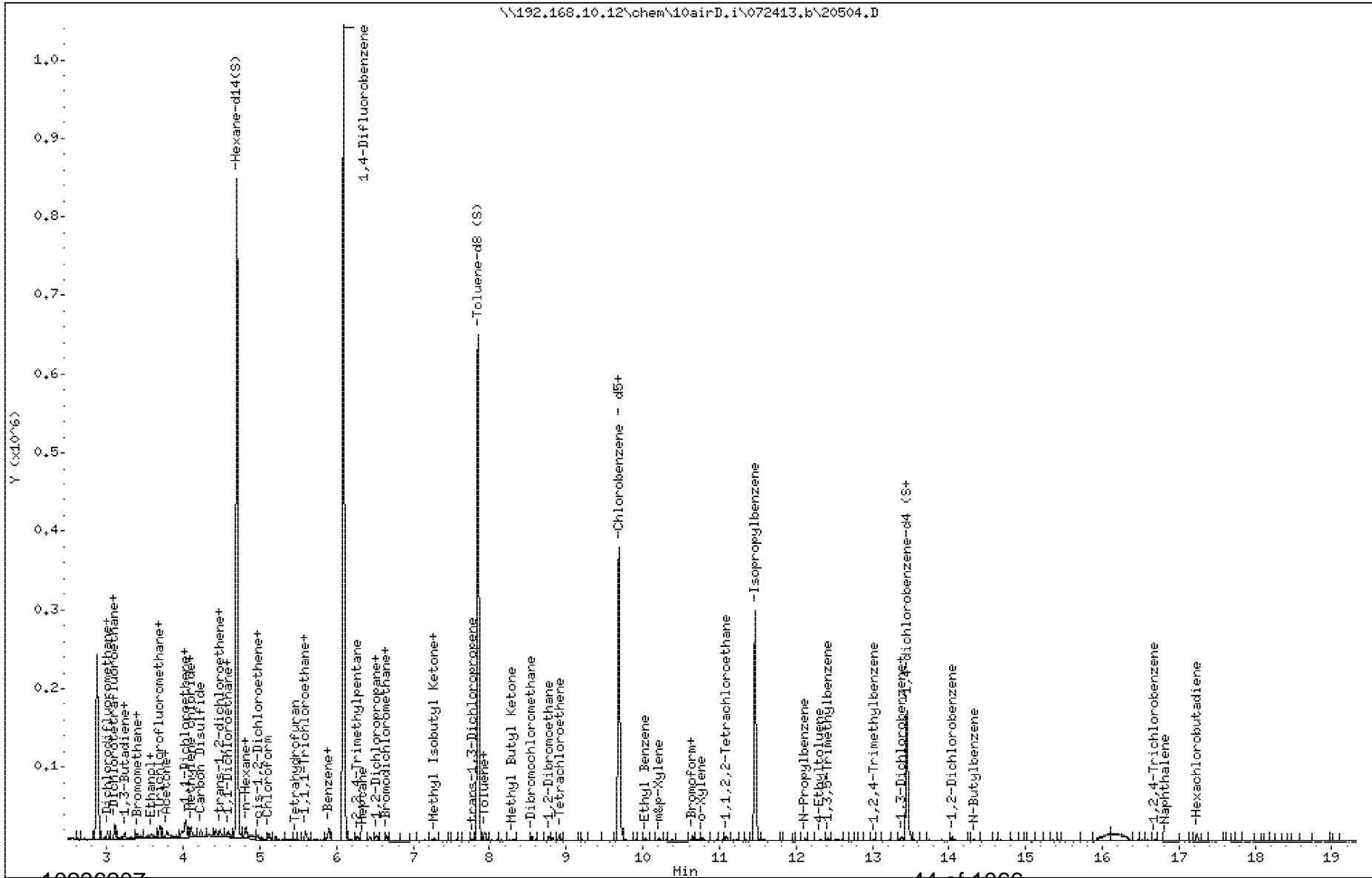
Instrument: 10airD.i

Sample Info:

Operator: DR1

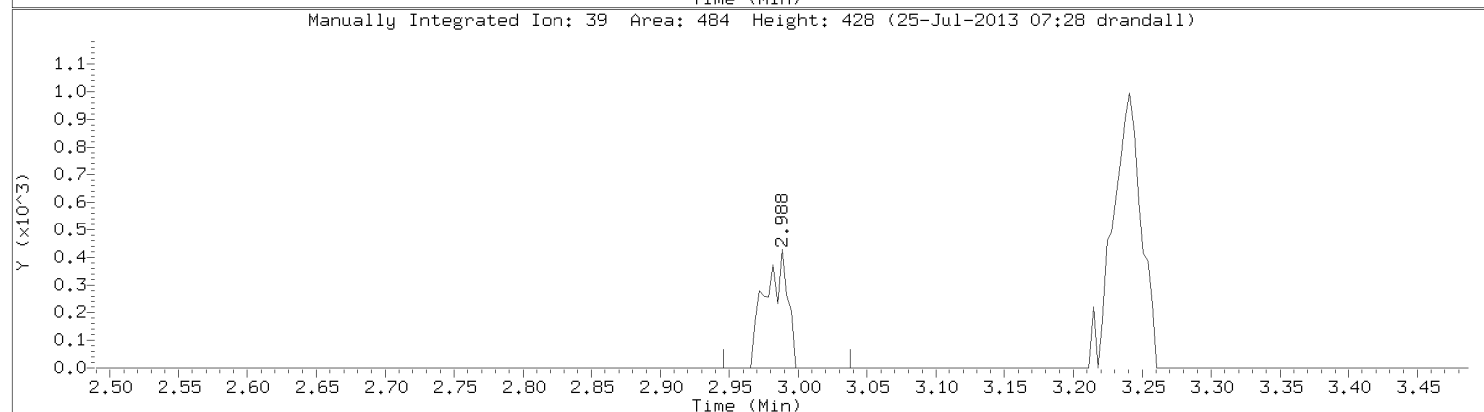
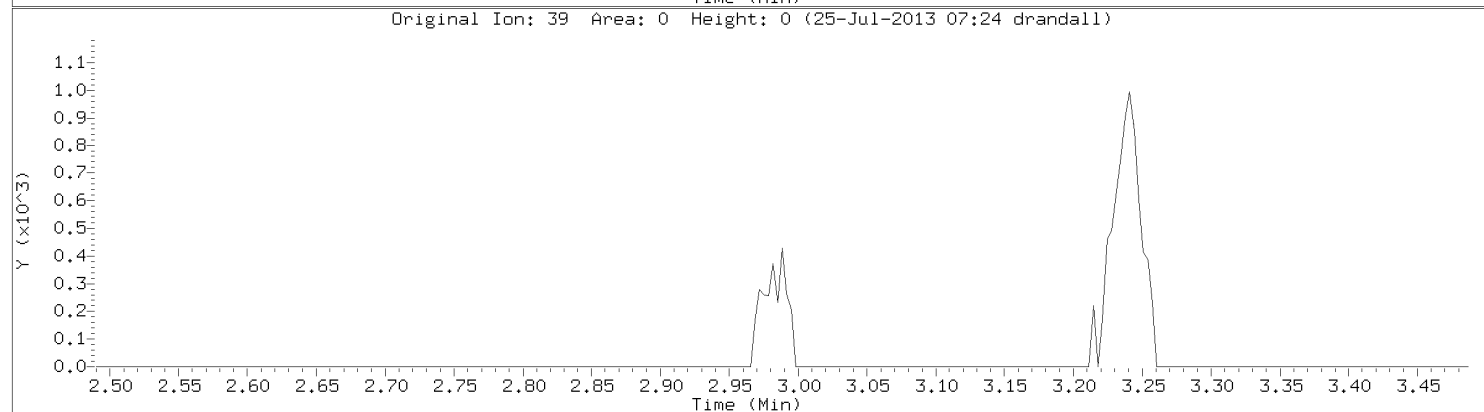
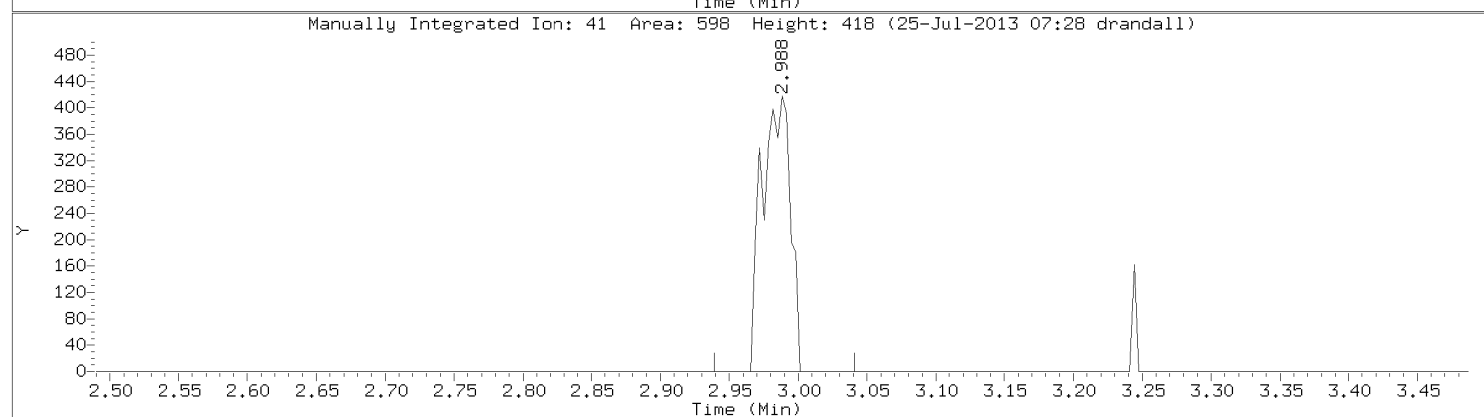
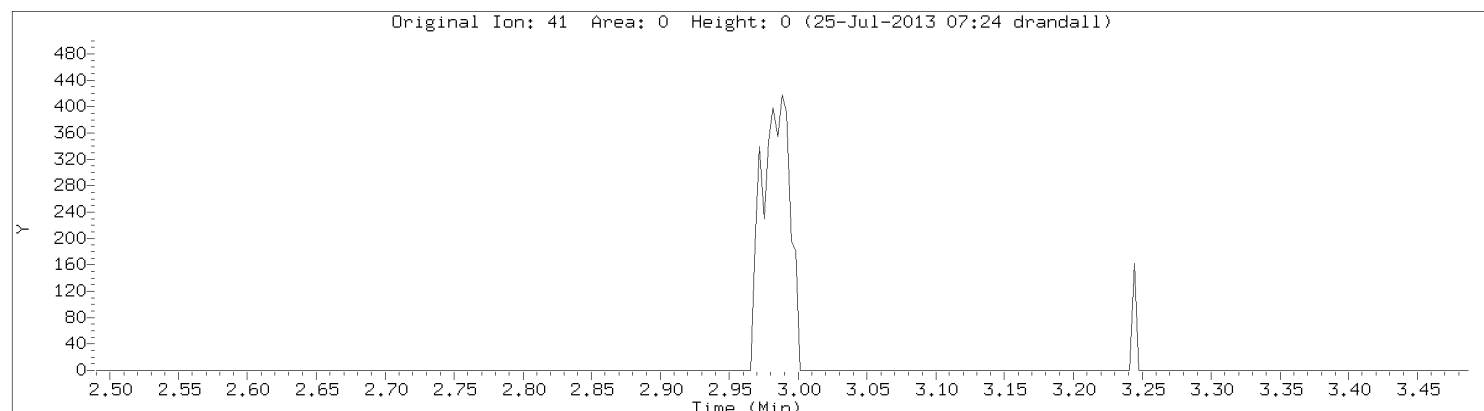
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Column diameter: 0.32



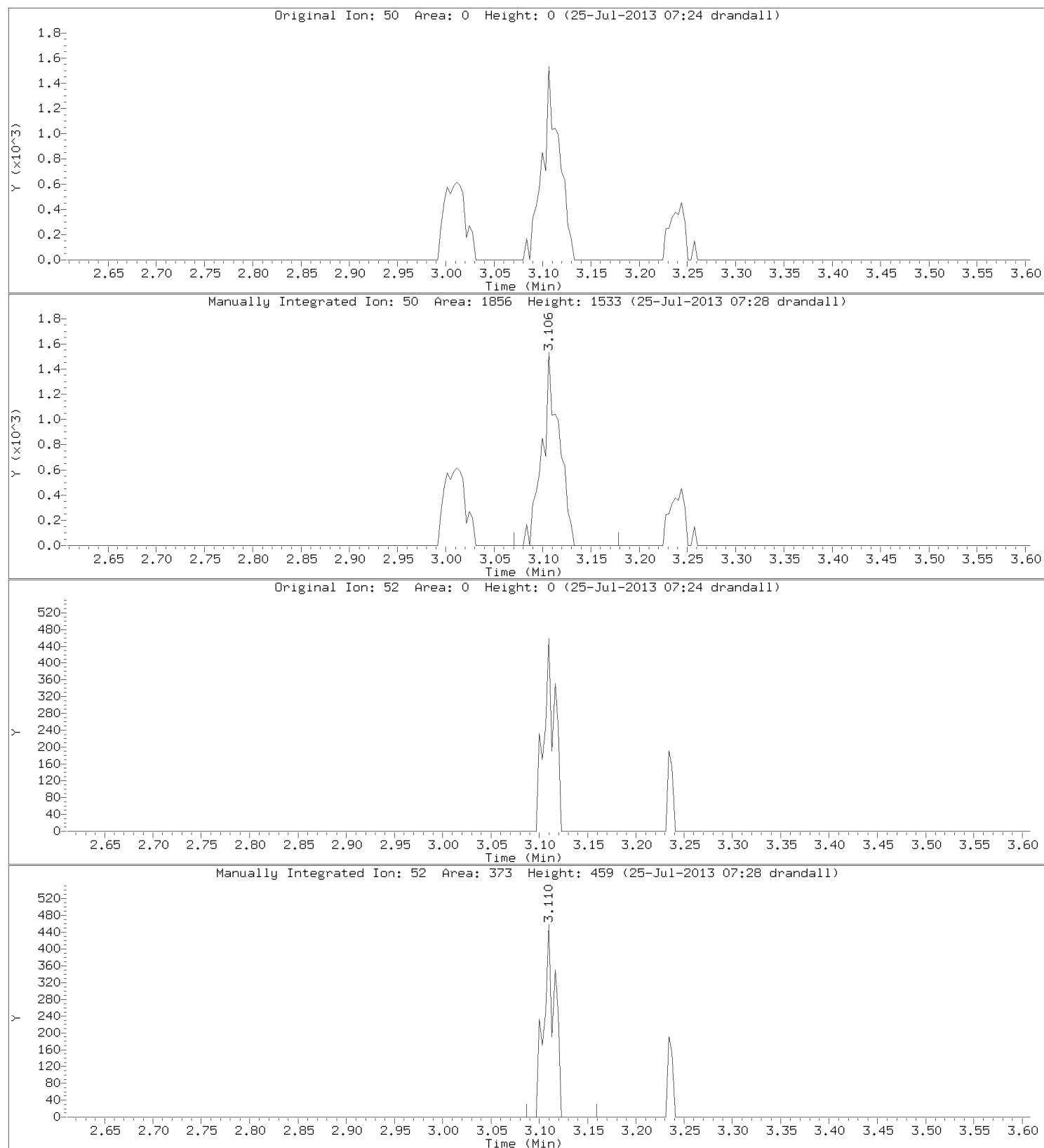
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Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Propylene
CAS Number: 76-14-2



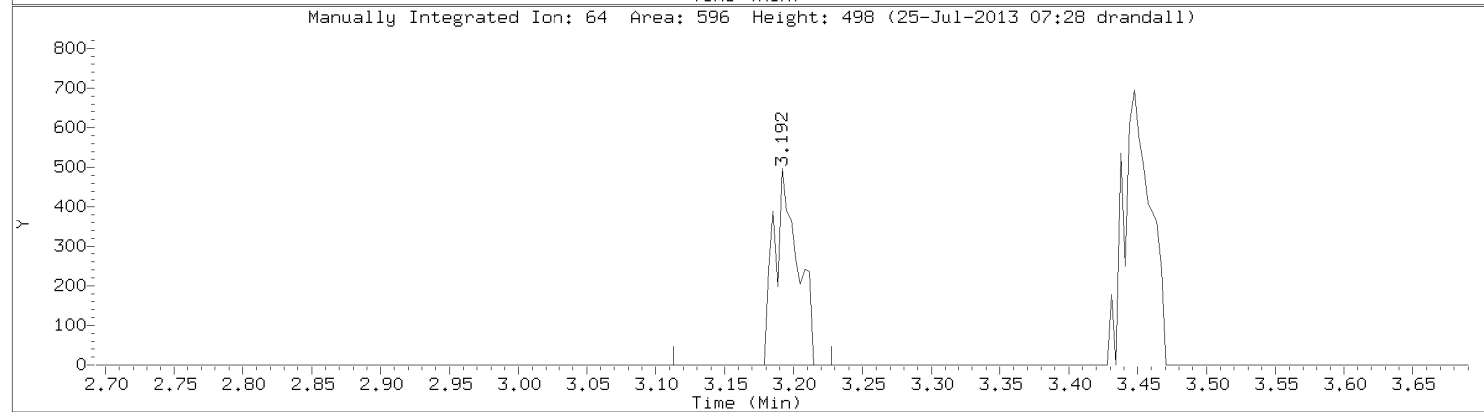
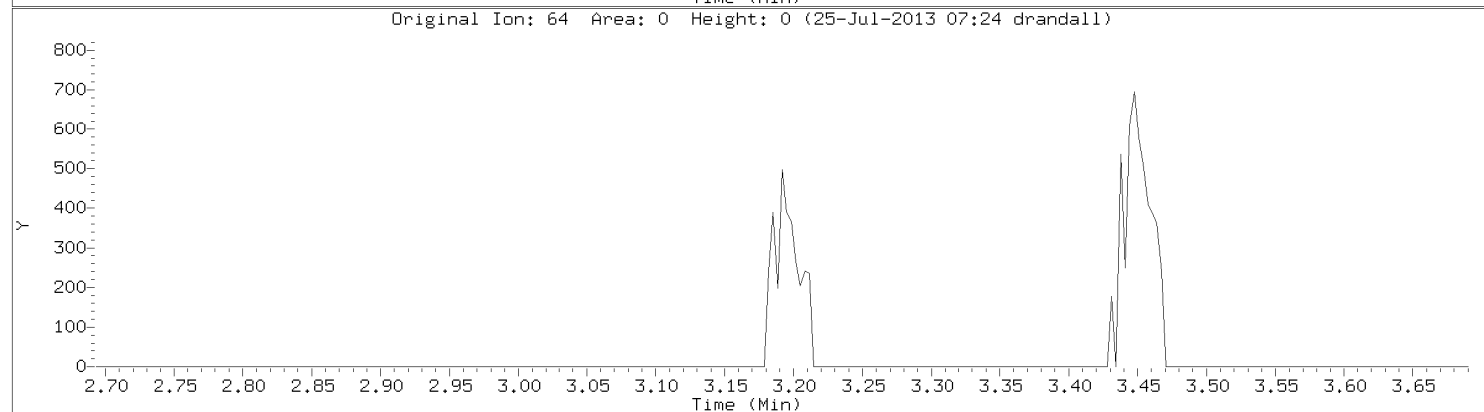
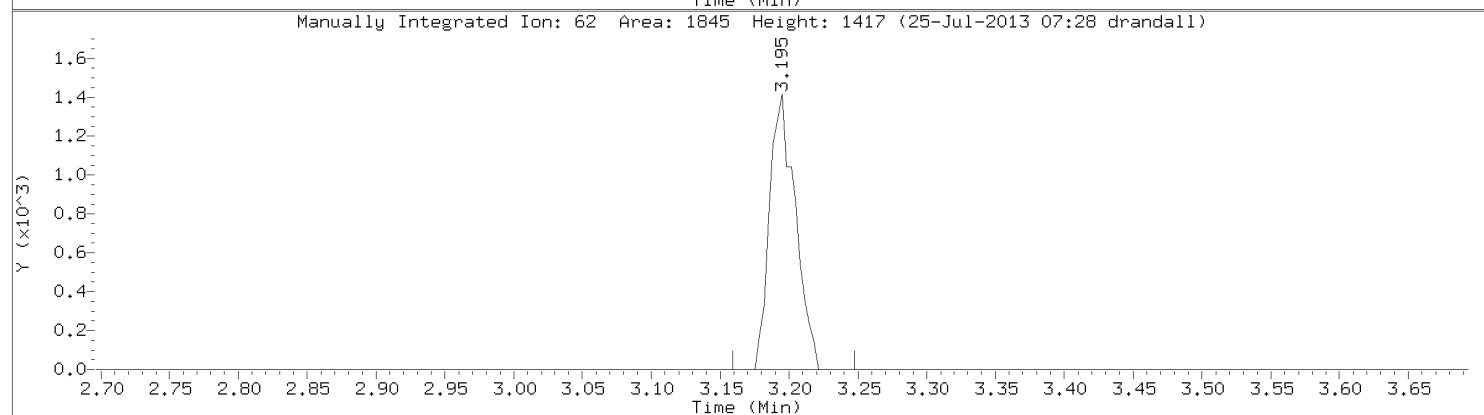
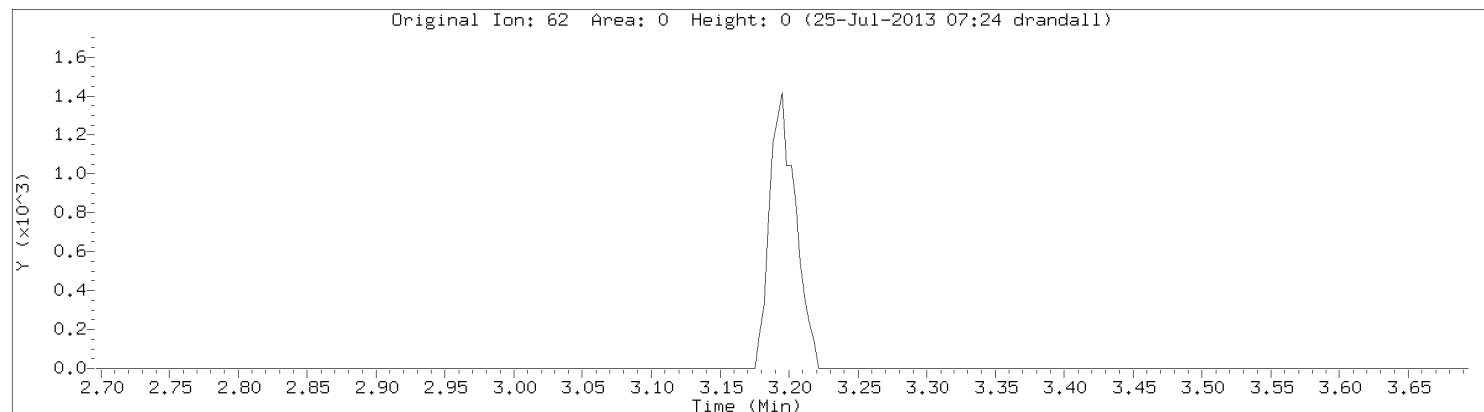
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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Chloromethane
CAS Number: 74-87-3



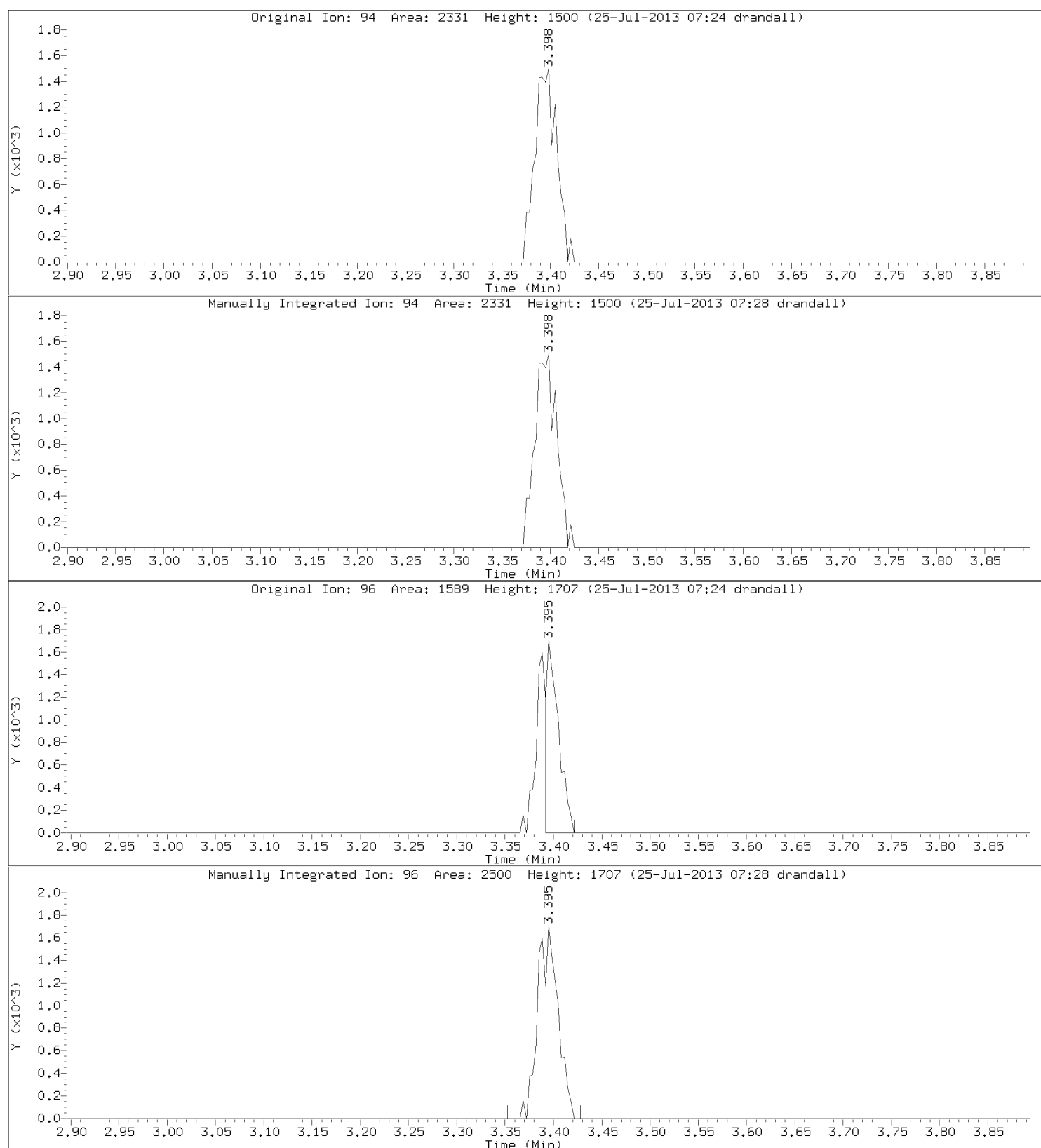
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Lab Sample ID: CAL1

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



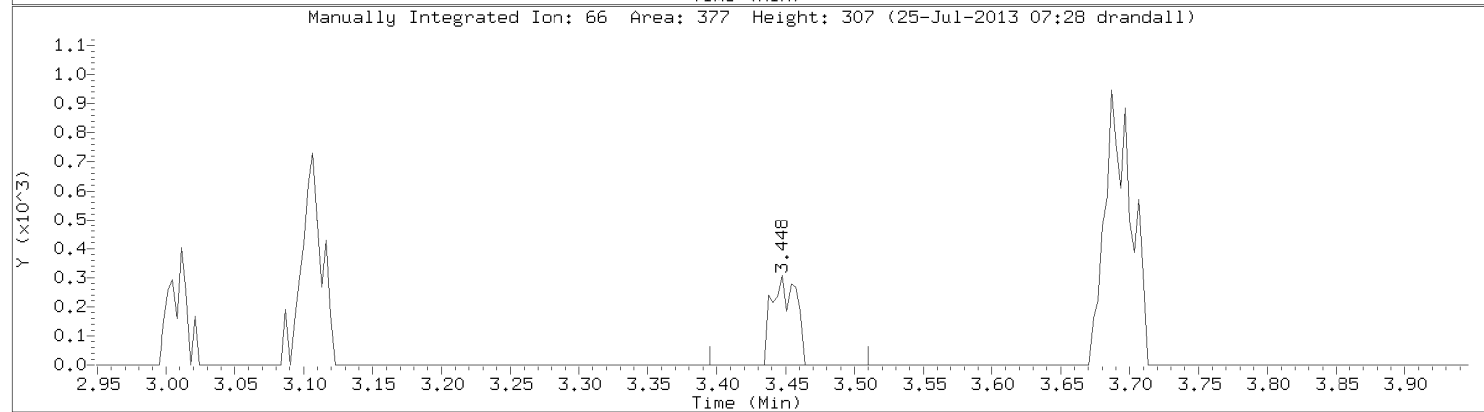
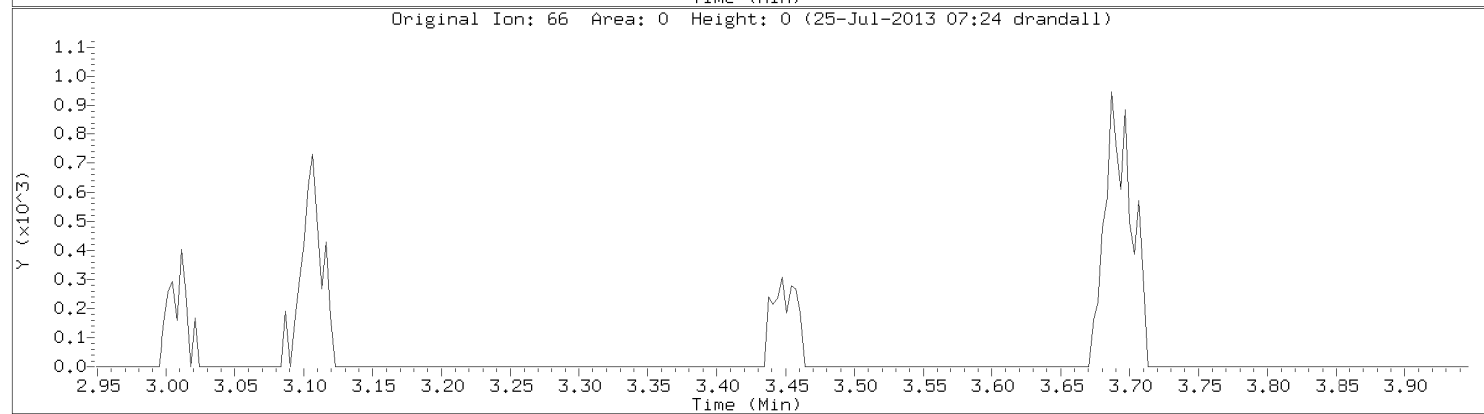
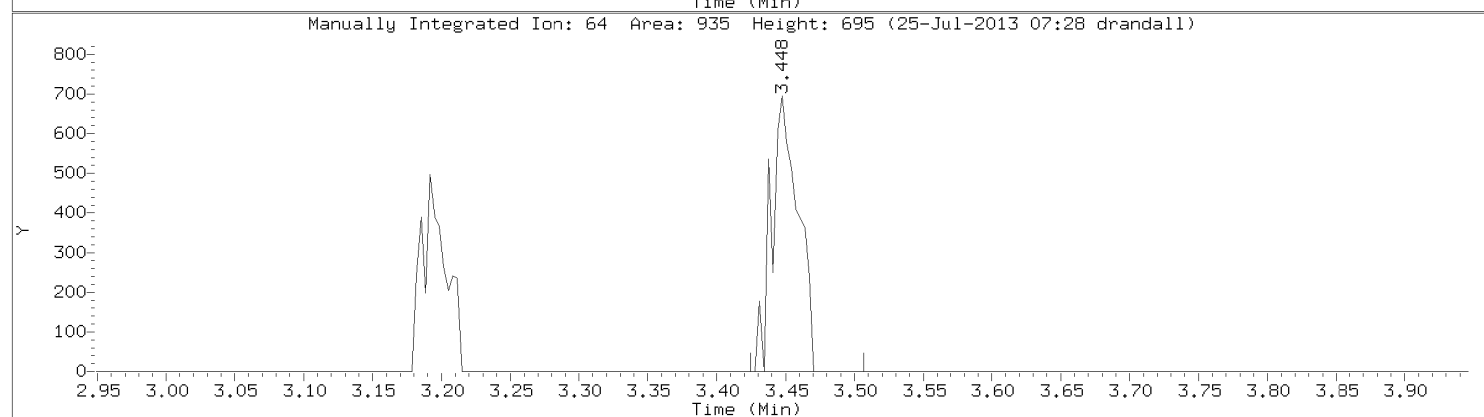
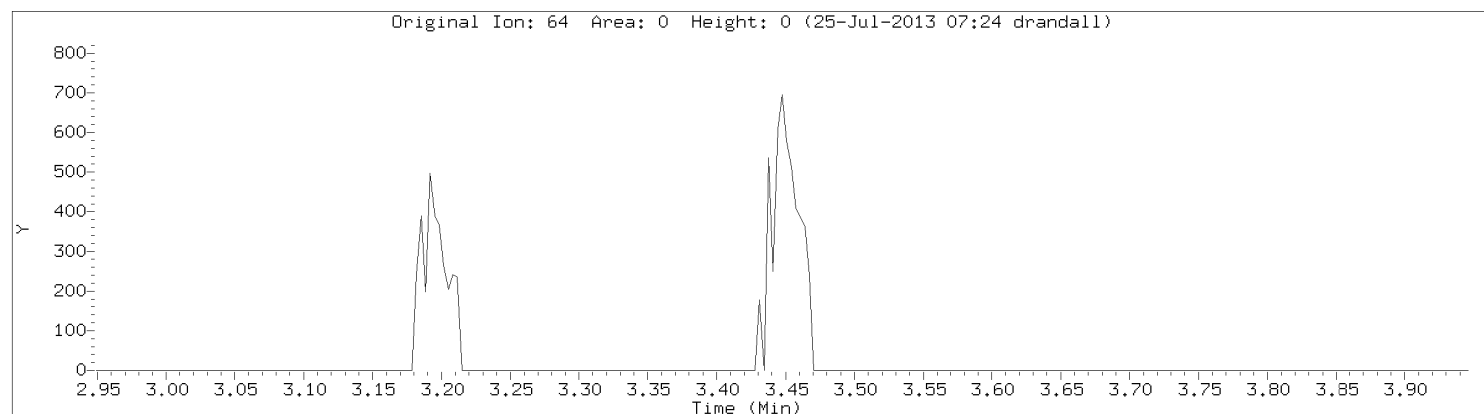
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Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Bromomethane
CAS Number: 74-83-9



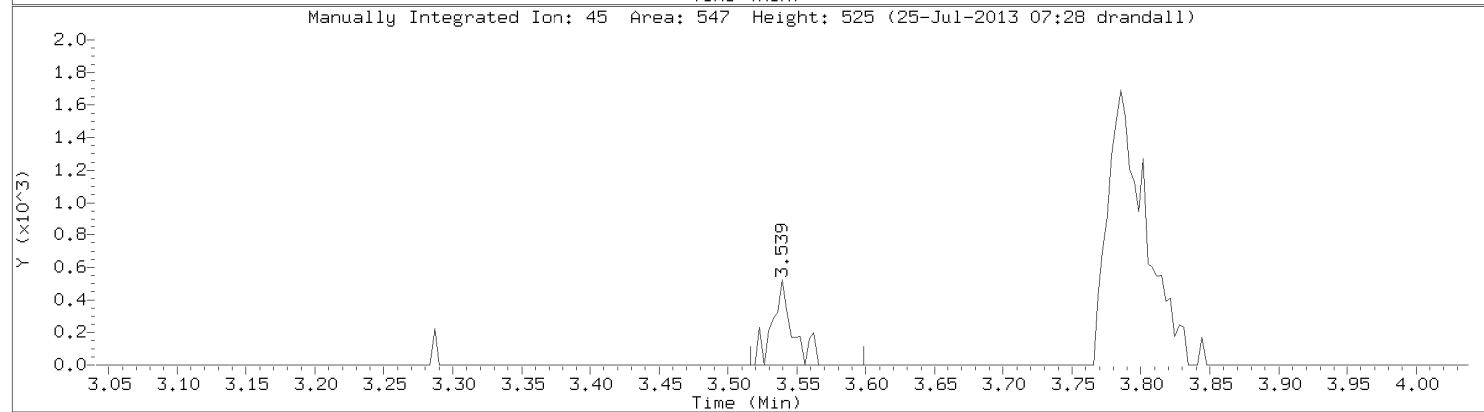
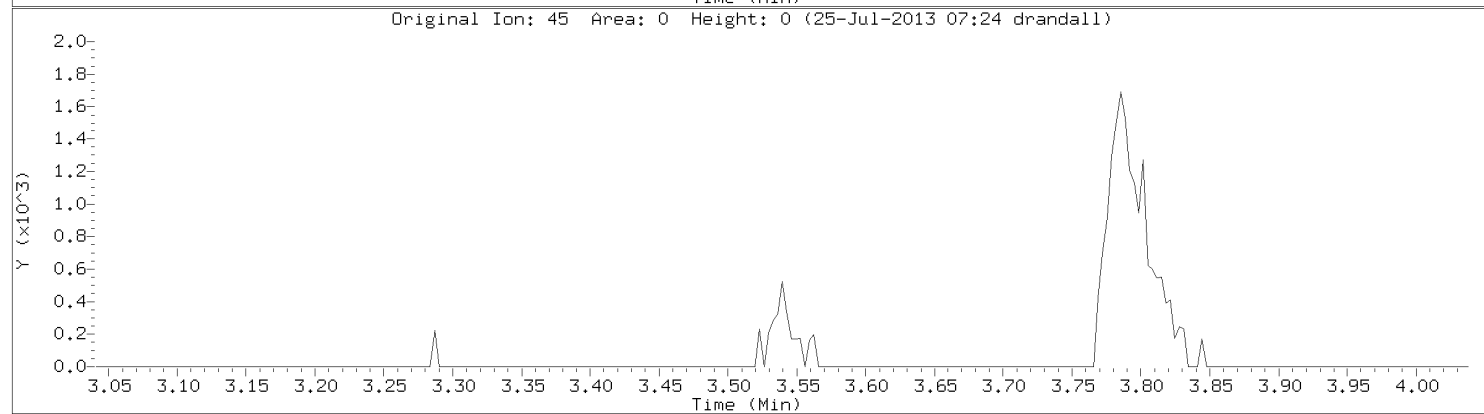
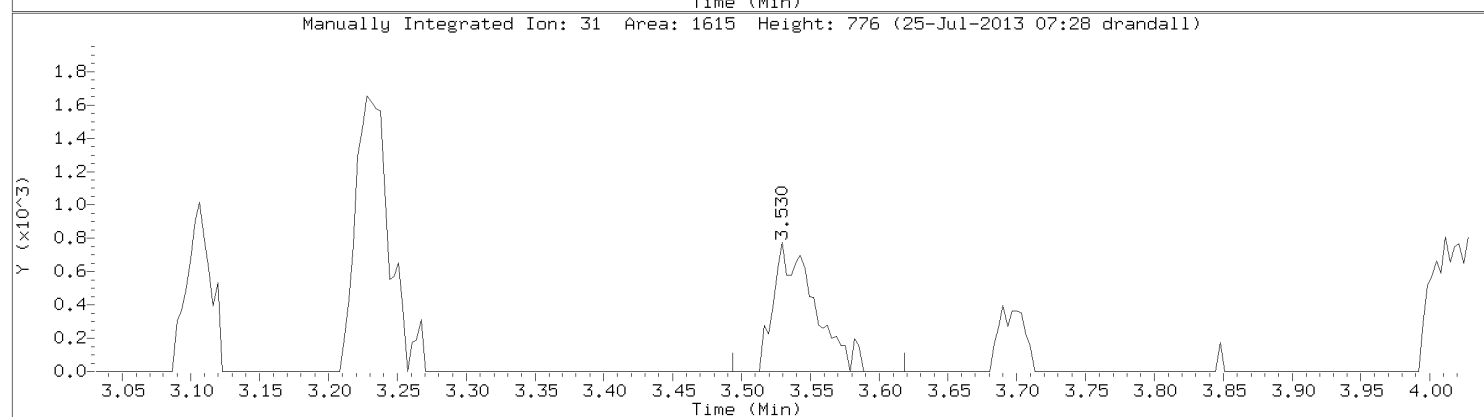
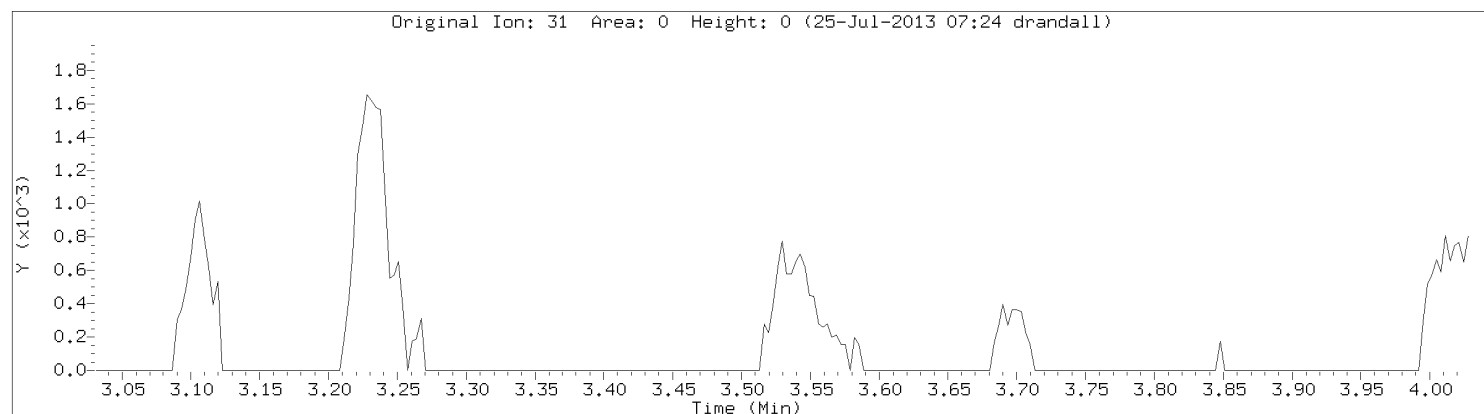
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Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Chloroethane
CAS Number: 75-00-3



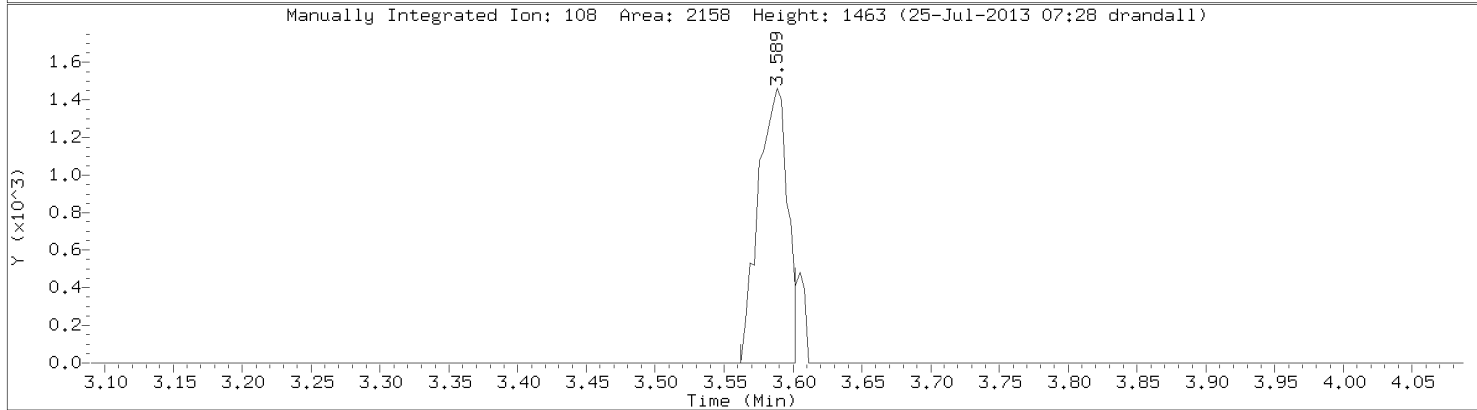
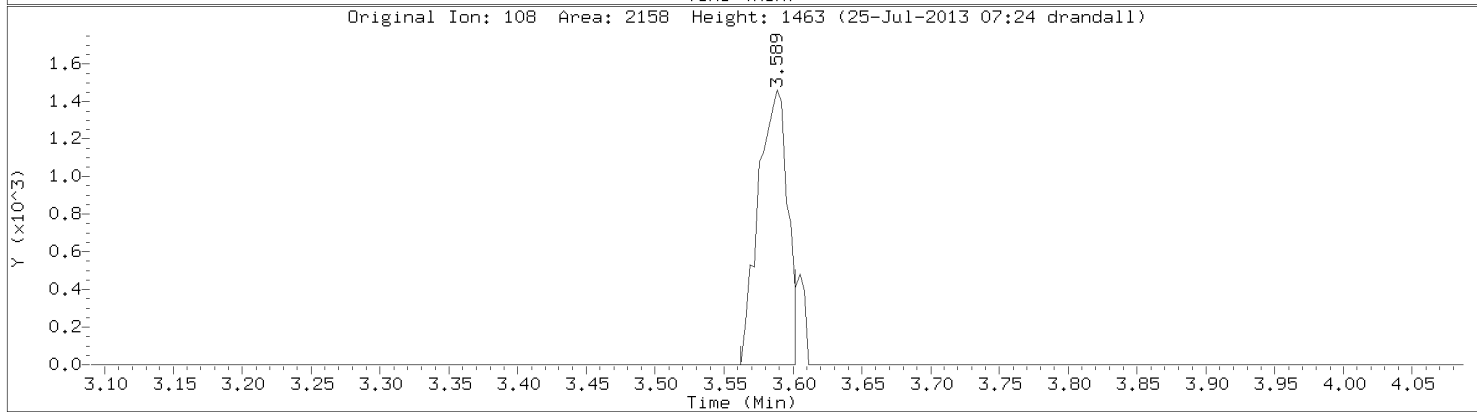
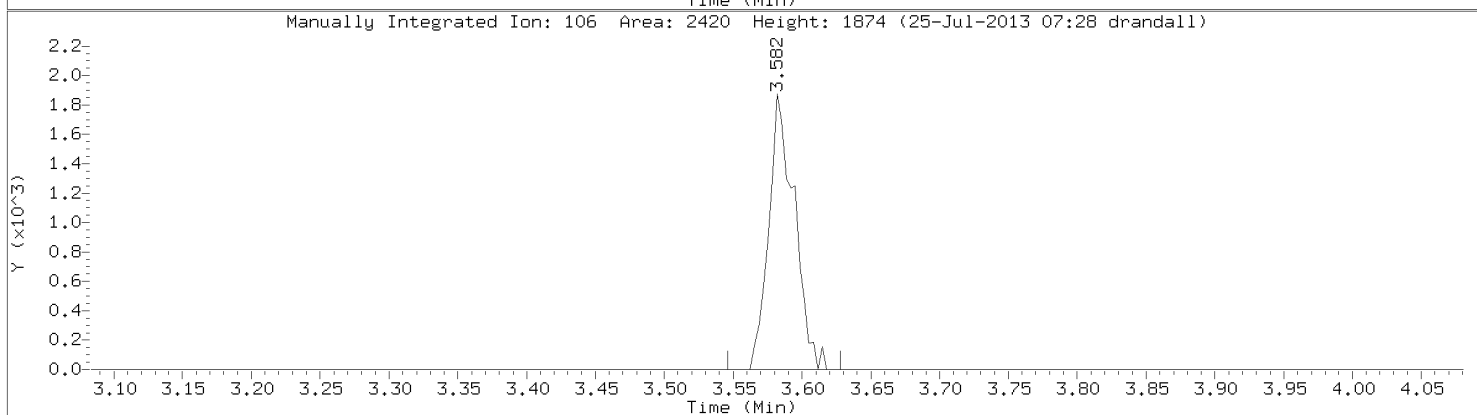
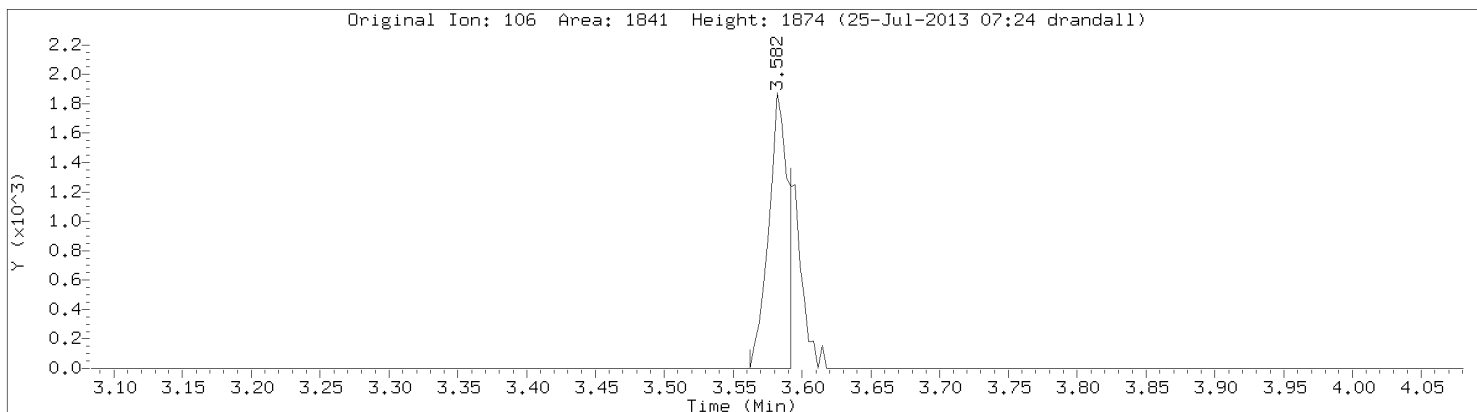
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Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Ethanol
CAS Number: 64-17-5



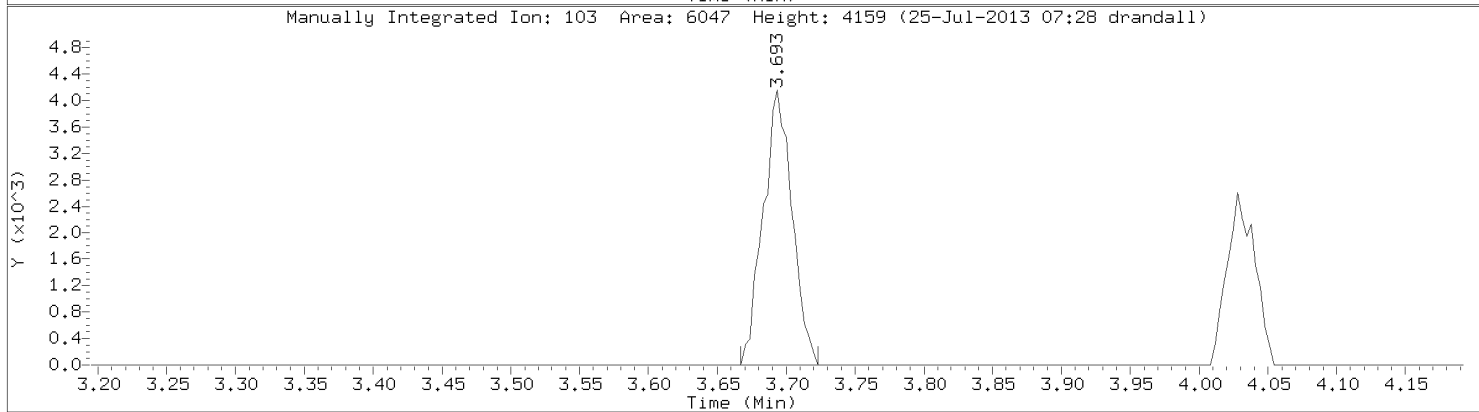
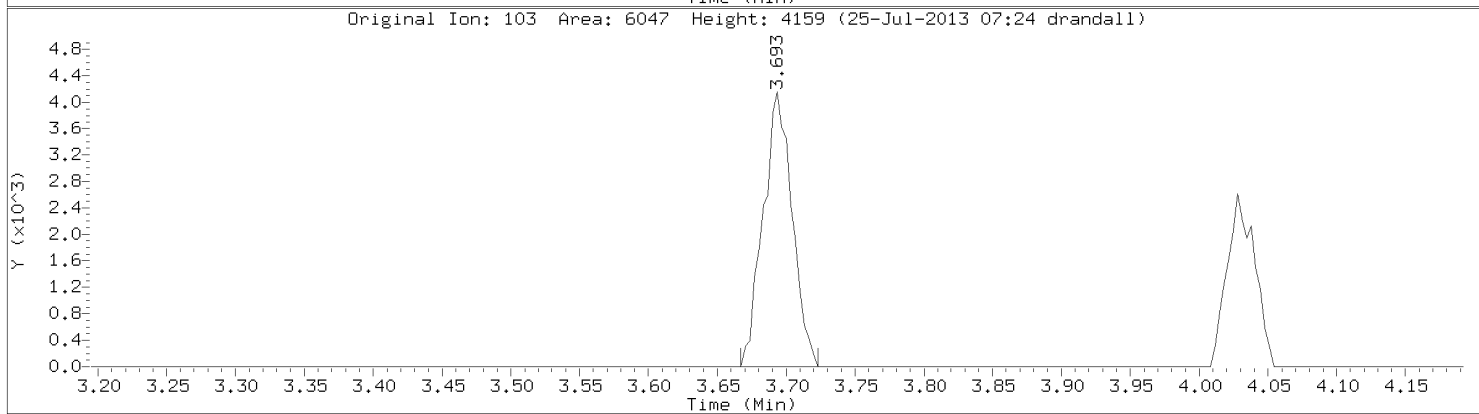
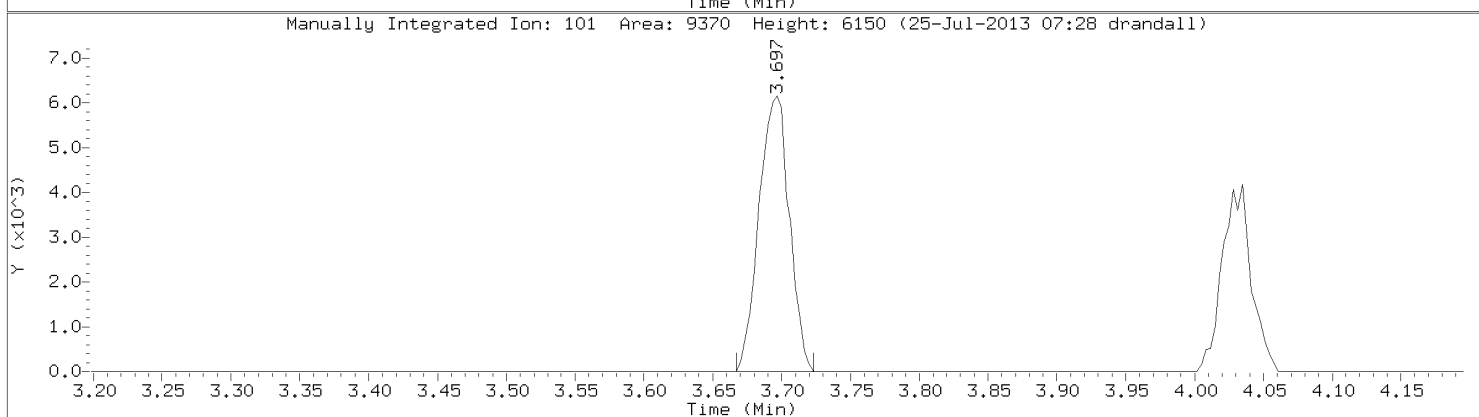
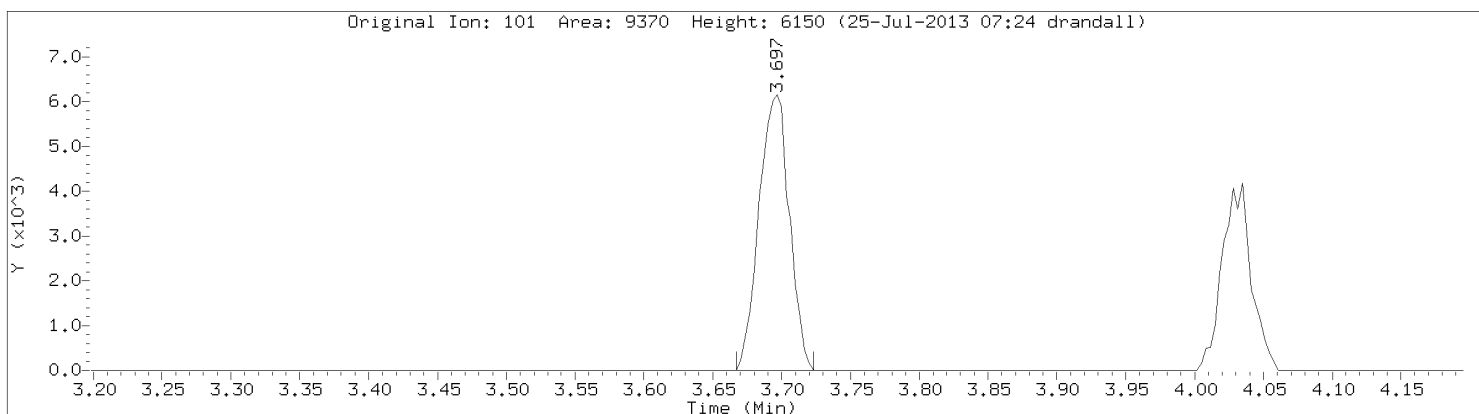
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Instrument: 10airD.i
Lab Sample ID: CAL1

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

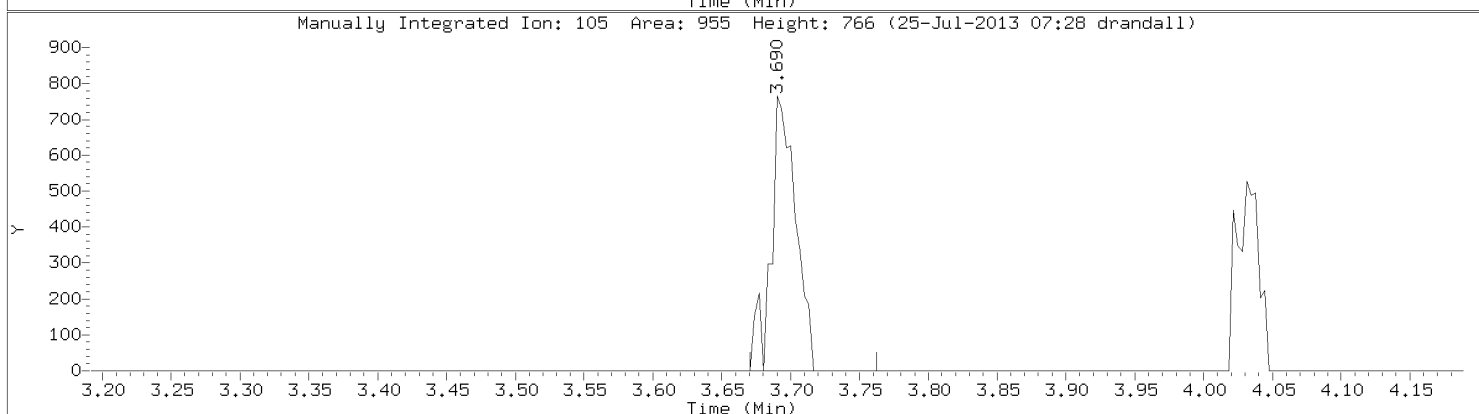
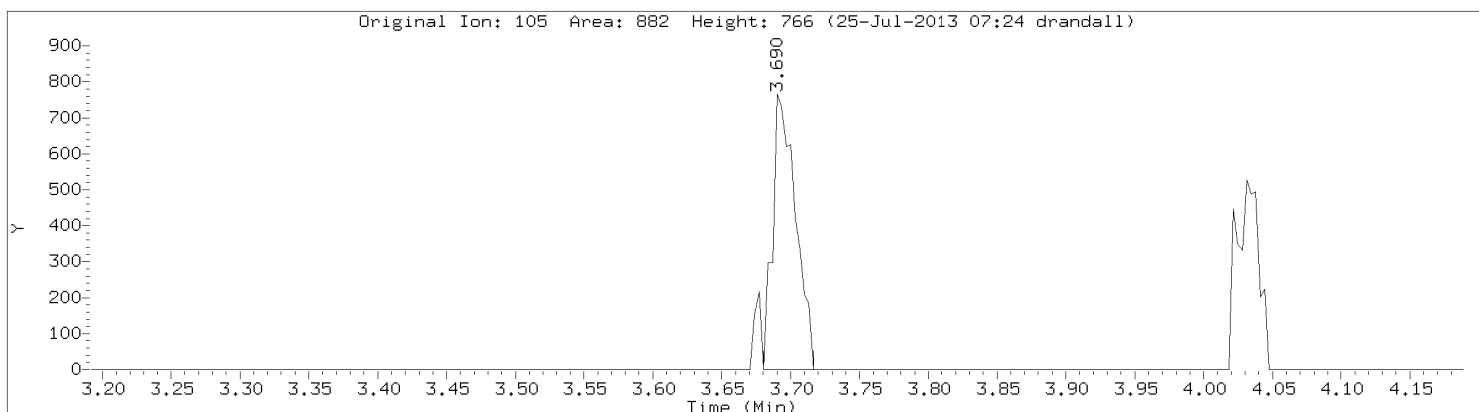


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Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

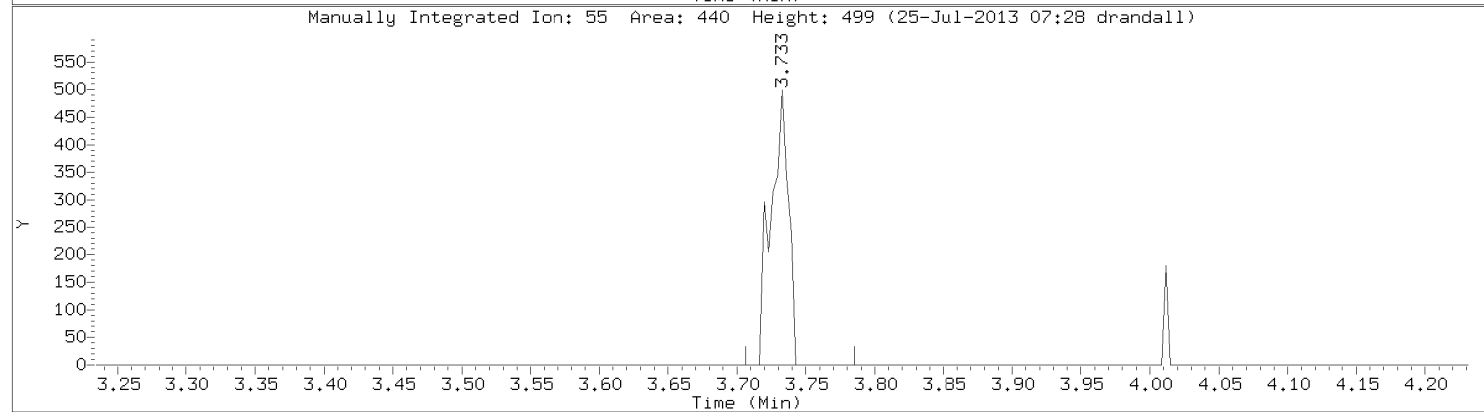
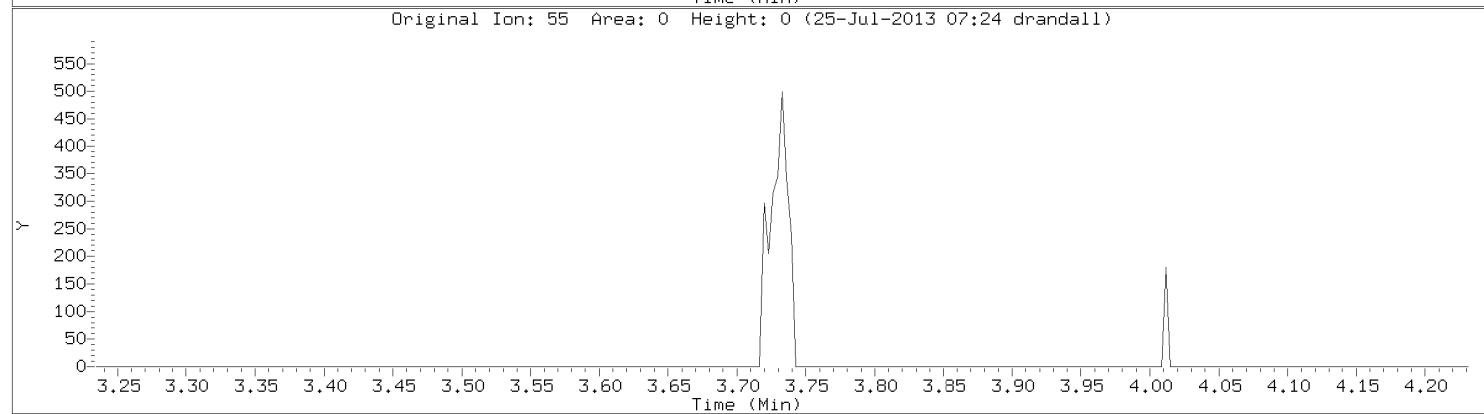
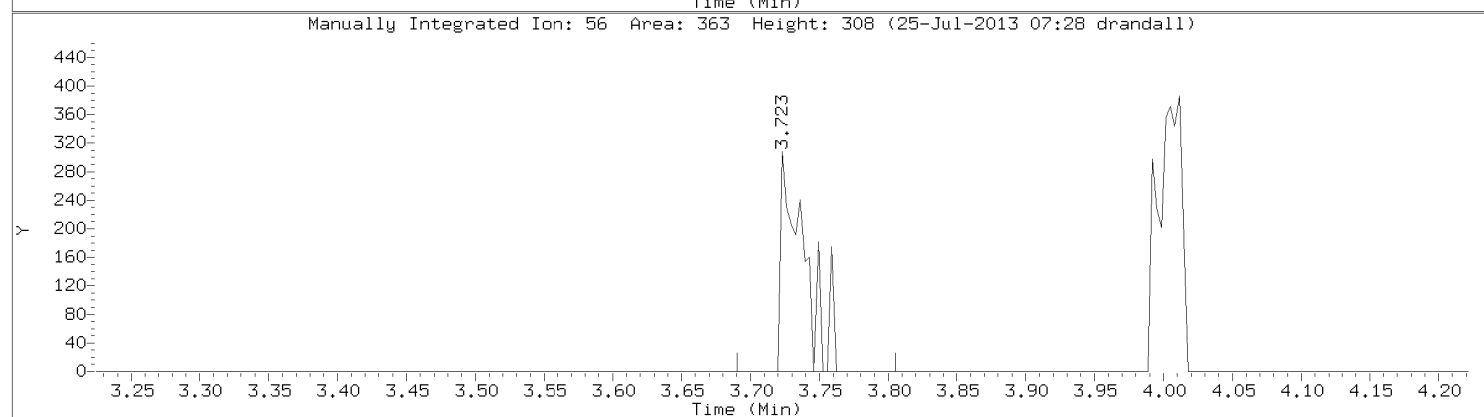
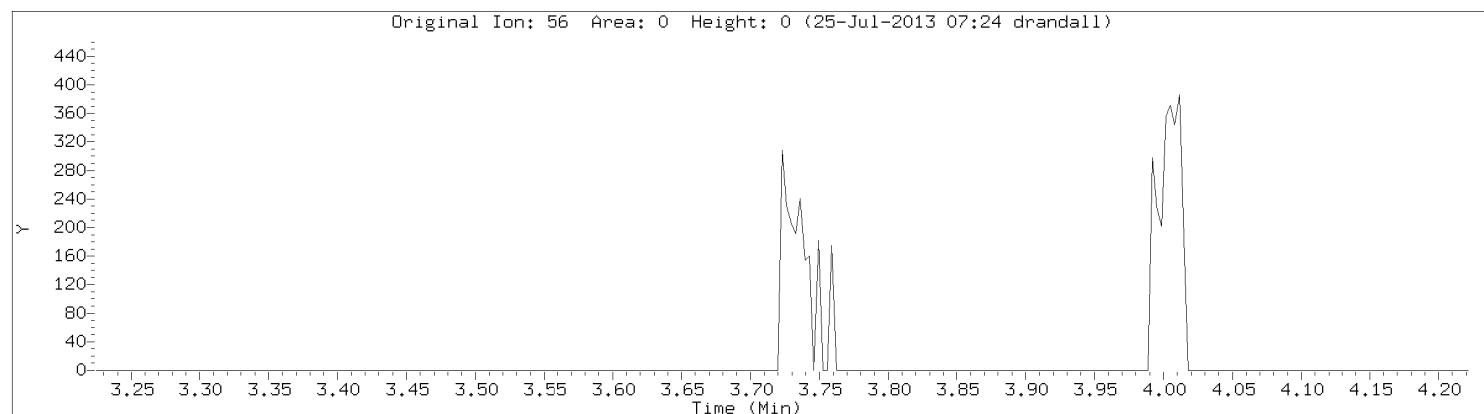


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Instrument: 10airD.i
Lab Sample ID: CAL1



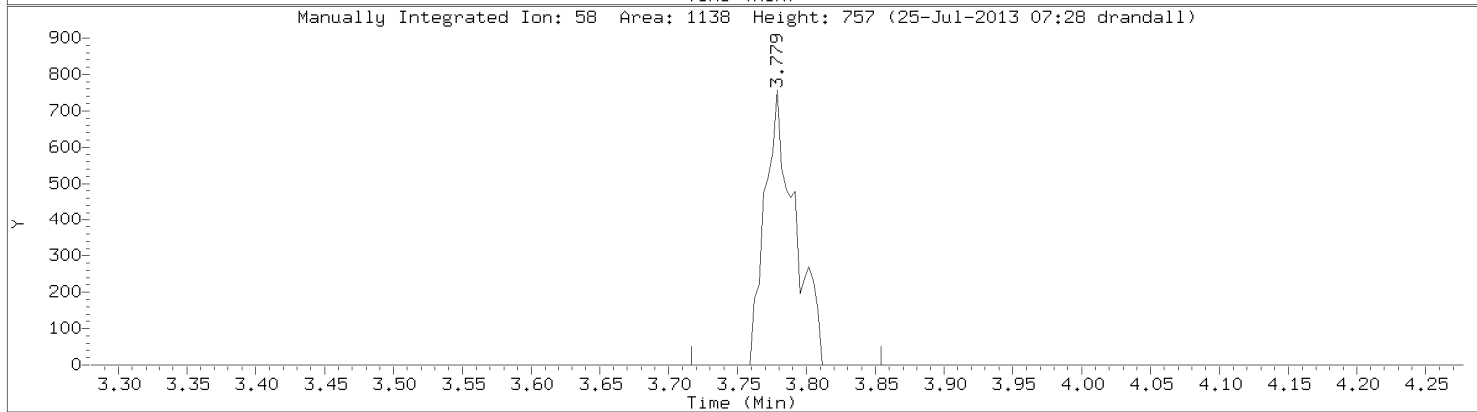
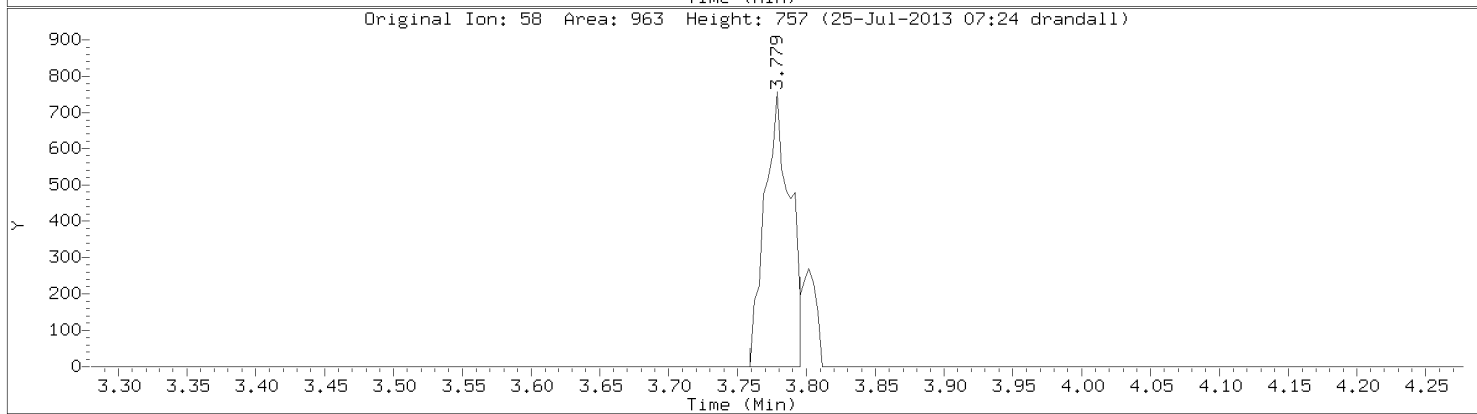
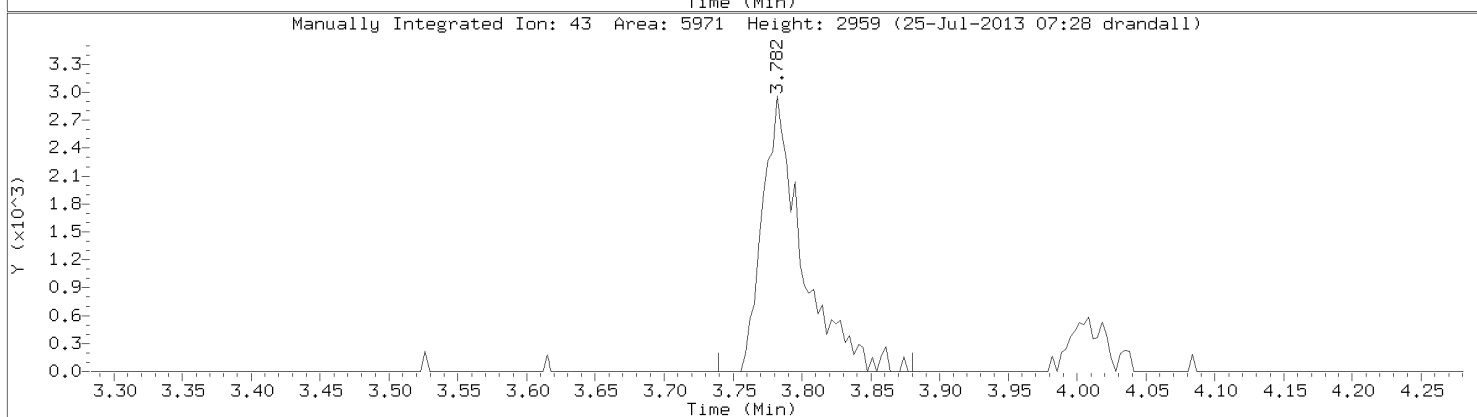
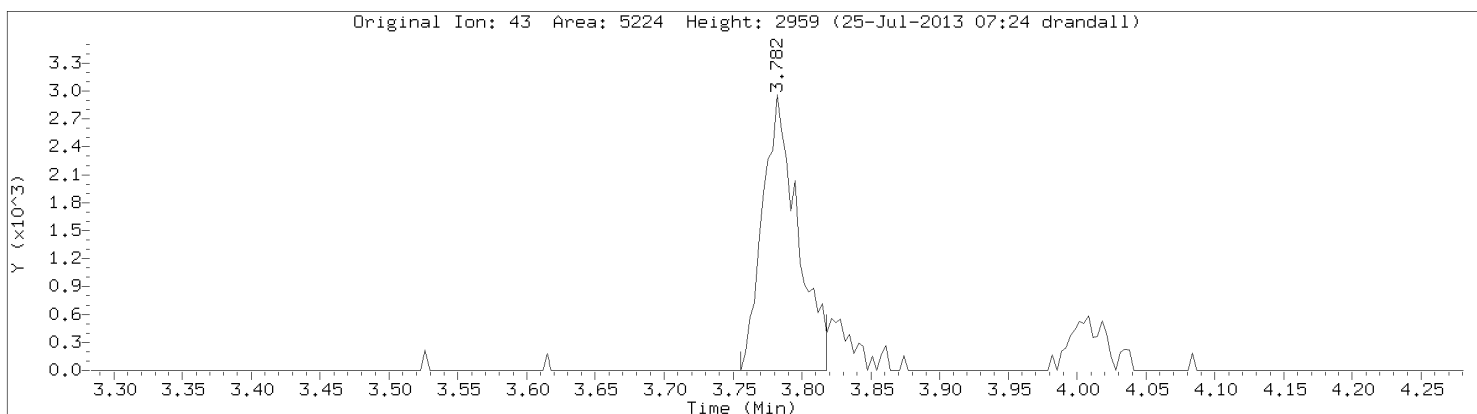
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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Acrolein
CAS Number: 107-02-08



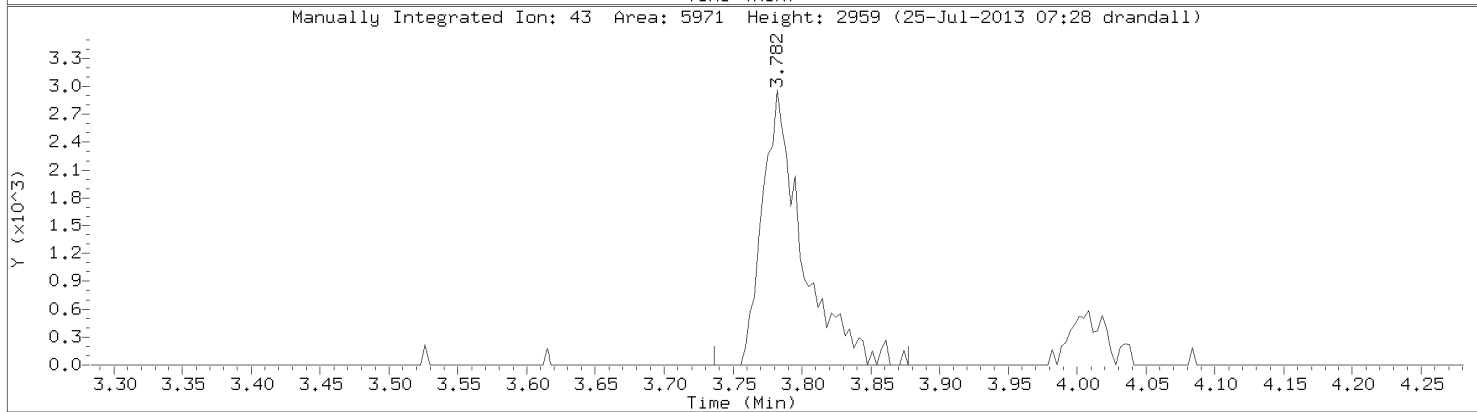
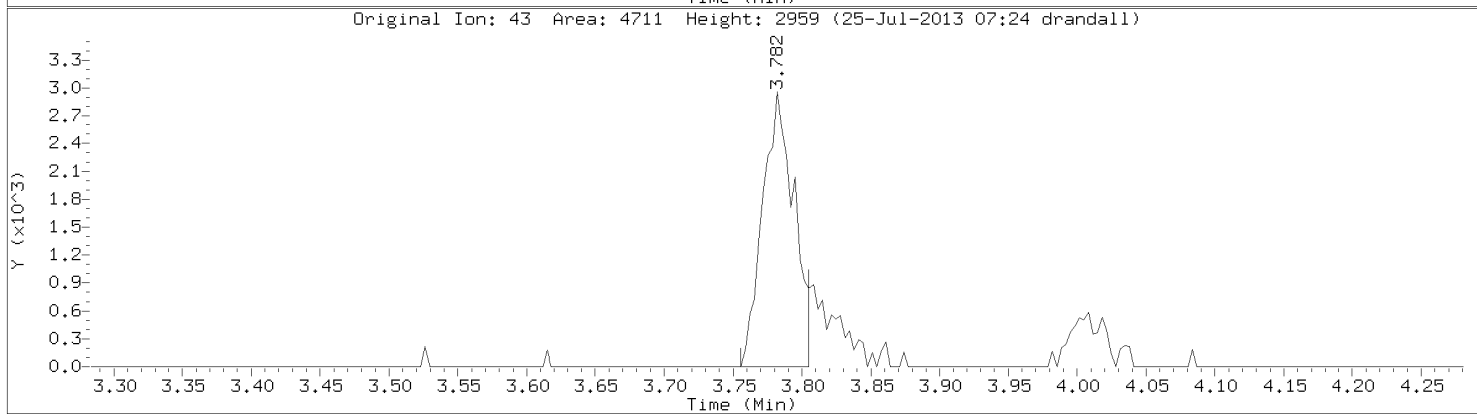
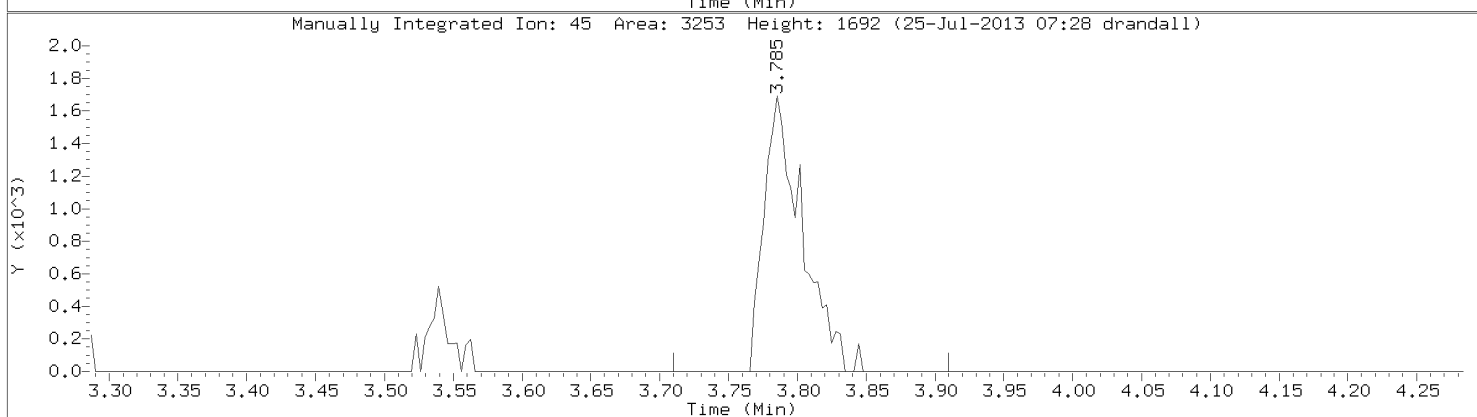
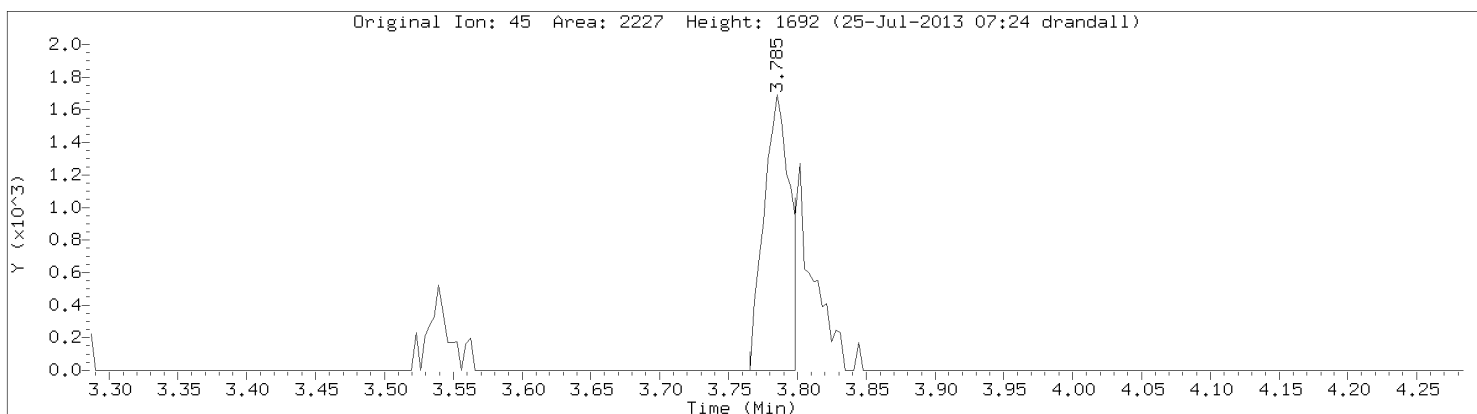
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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Acetone
CAS Number: 67-64-1



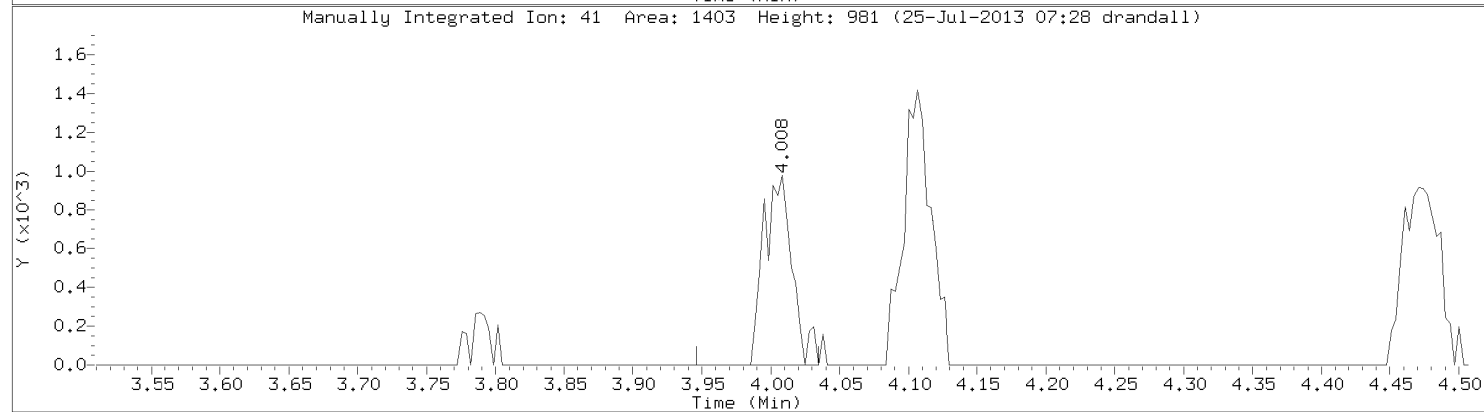
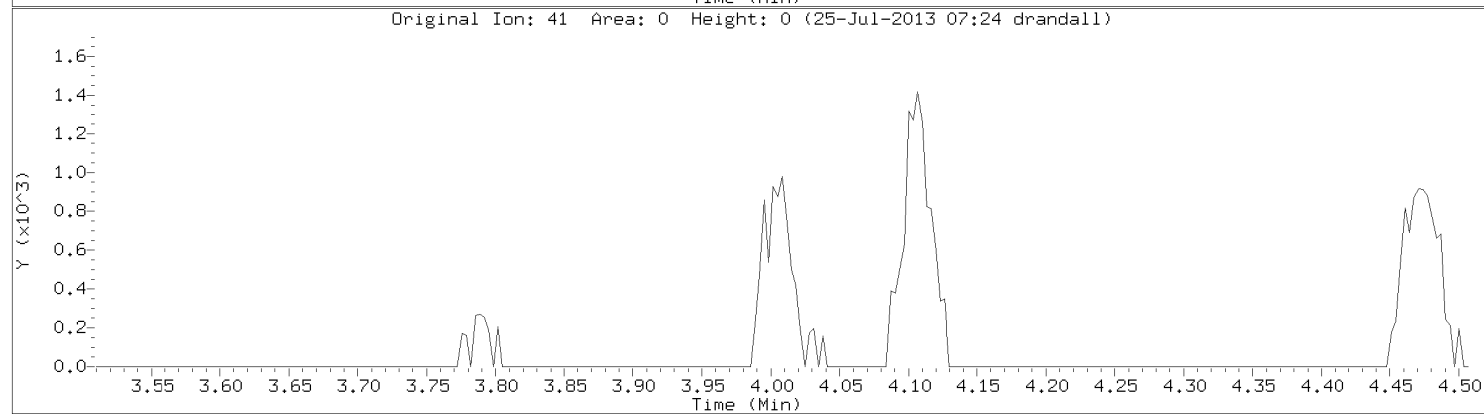
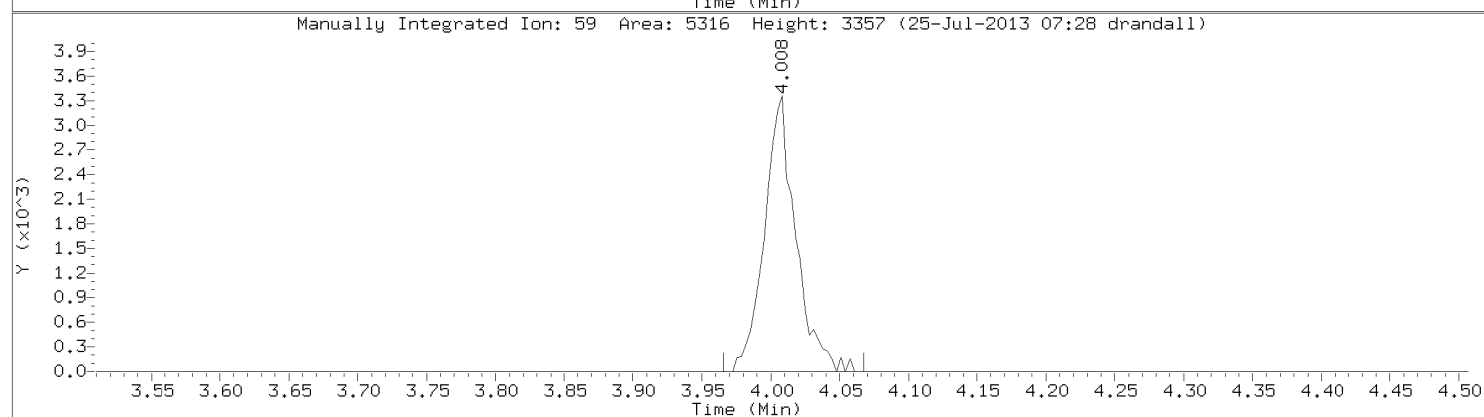
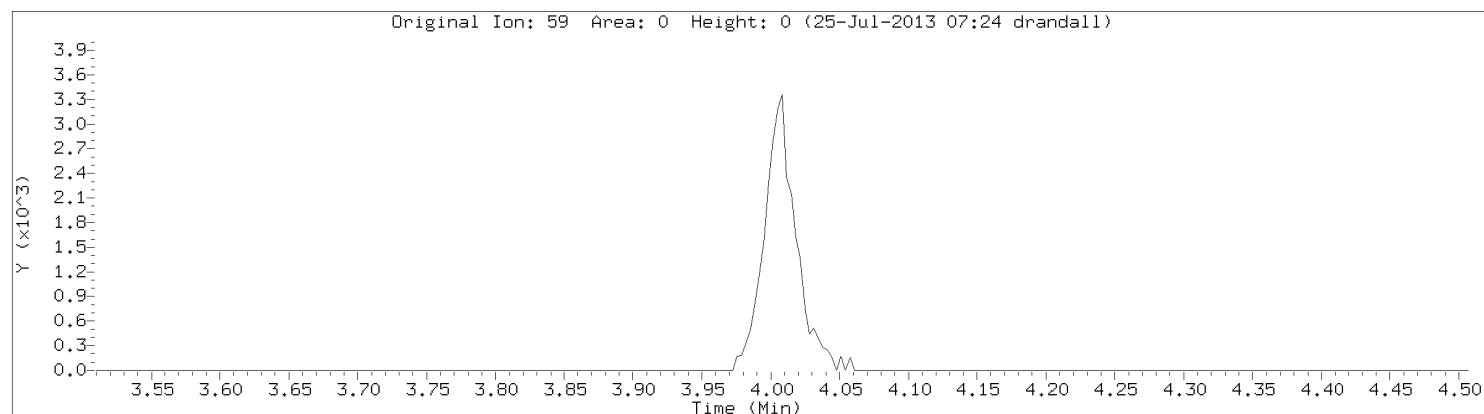
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Instrument: 10airD.i
Lab Sample ID: CAL1

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



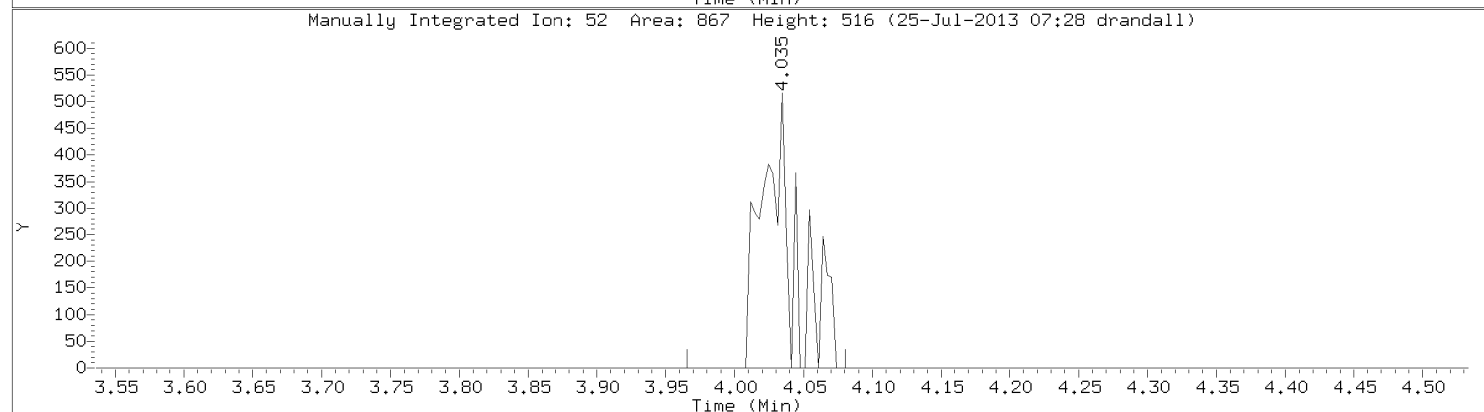
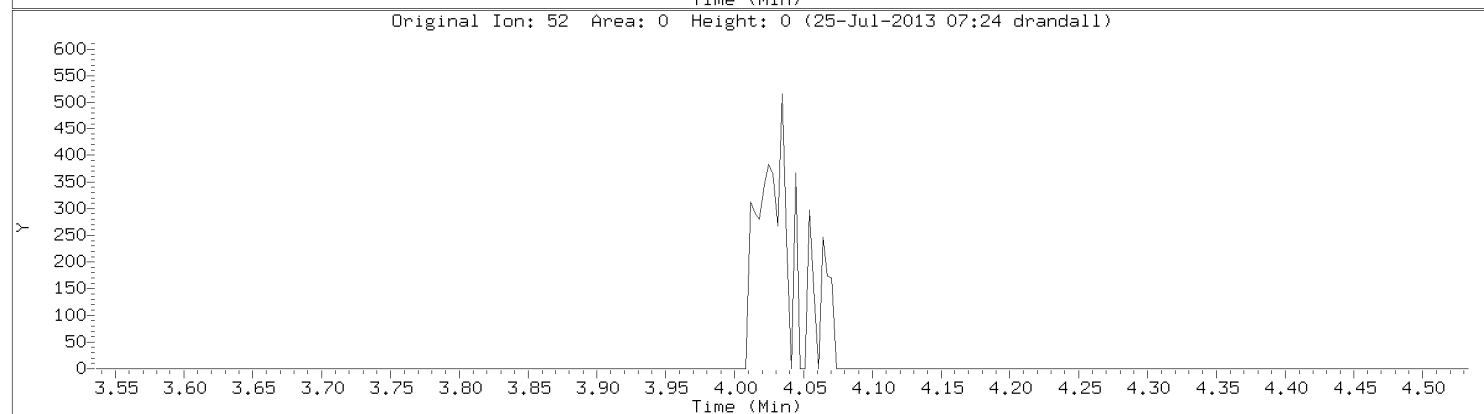
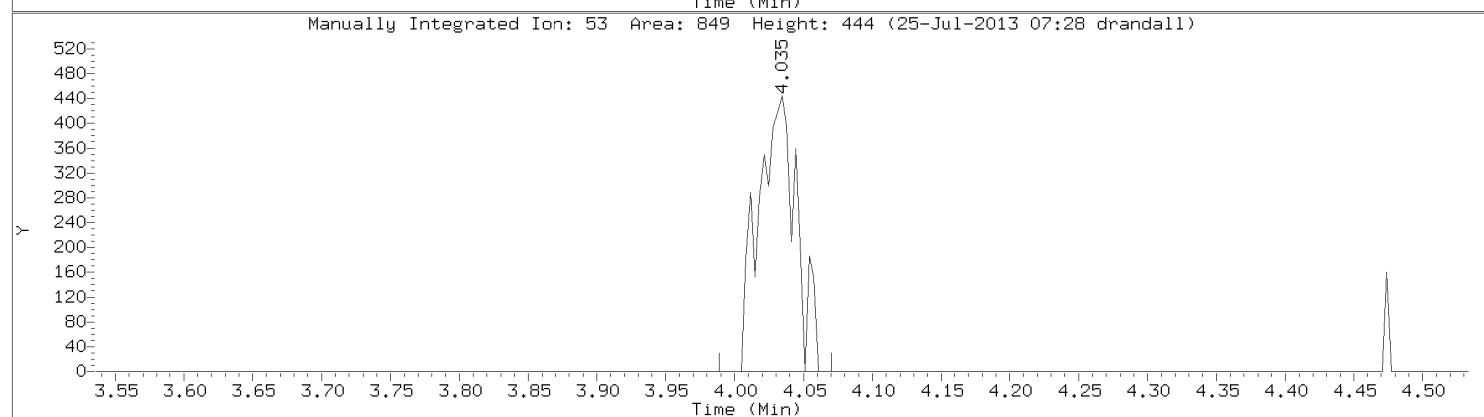
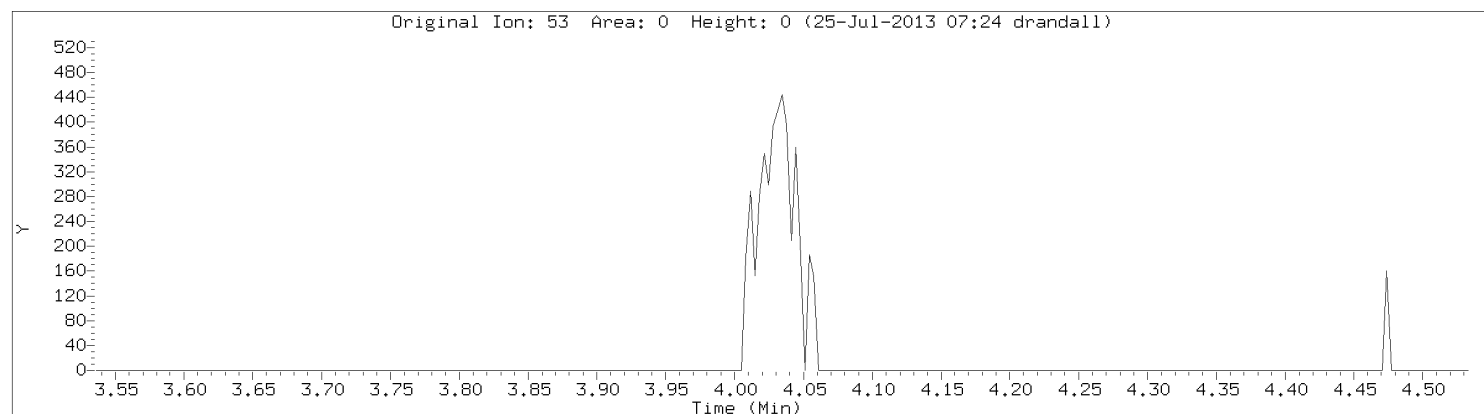
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Instrument: 10airD.i
Lab Sample ID: CAL1

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



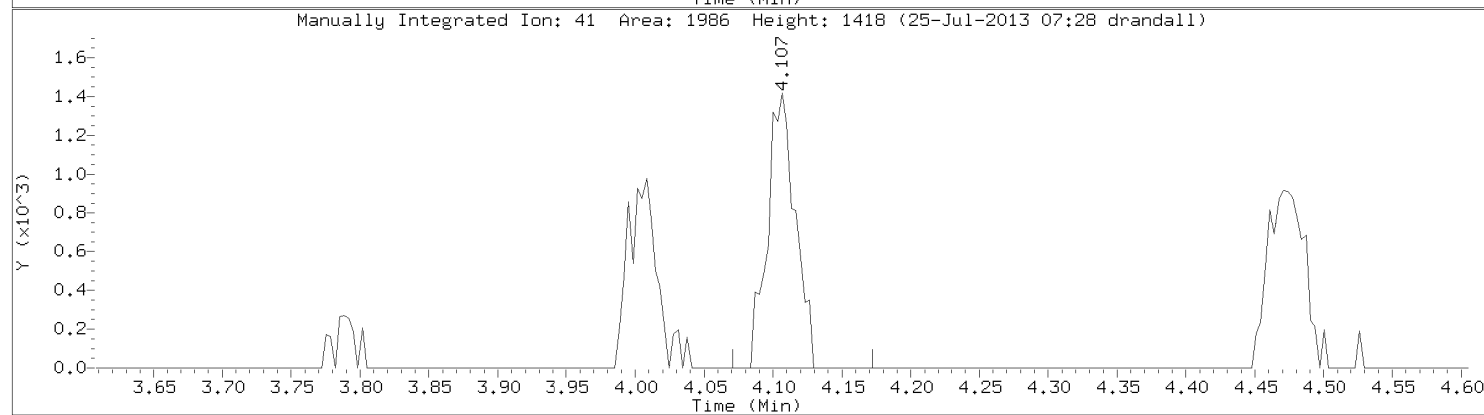
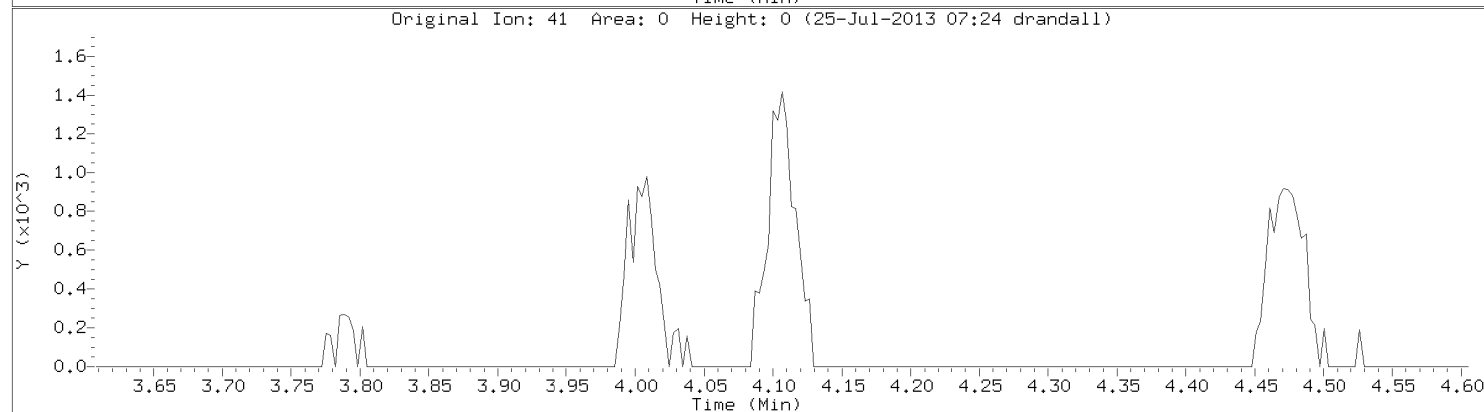
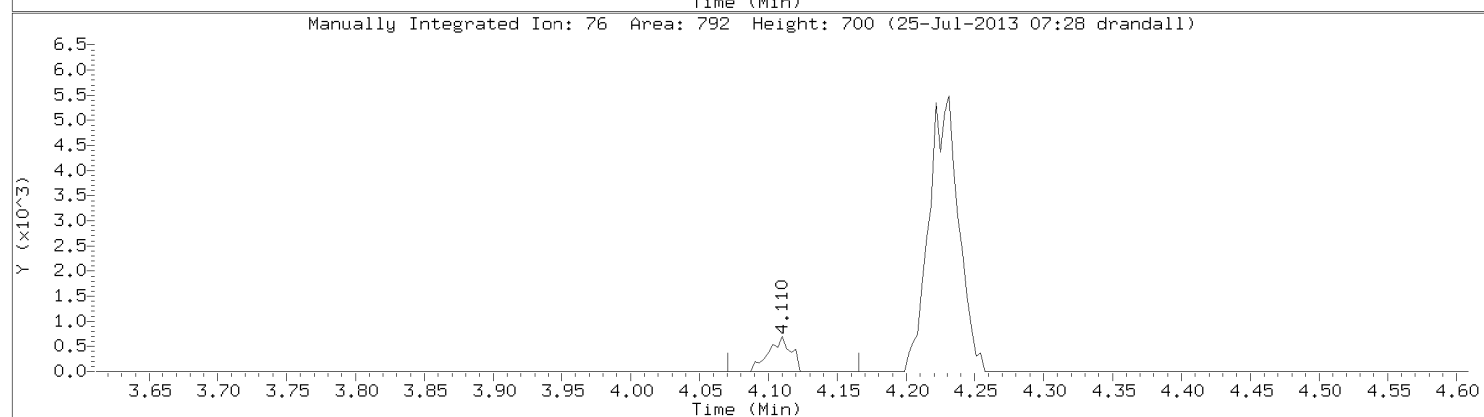
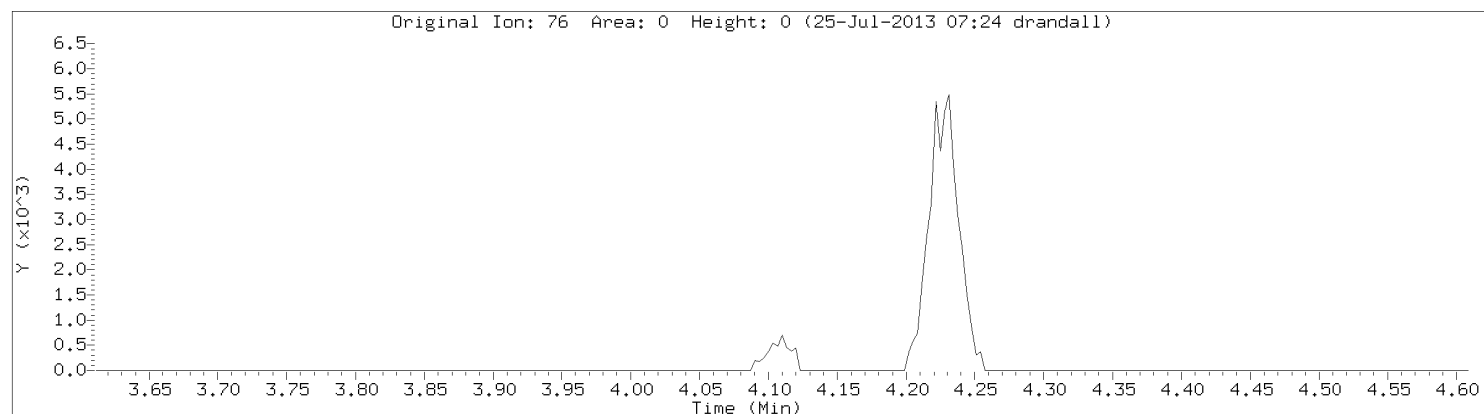
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Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Acrylonitrile
CAS Number: 107-13-1

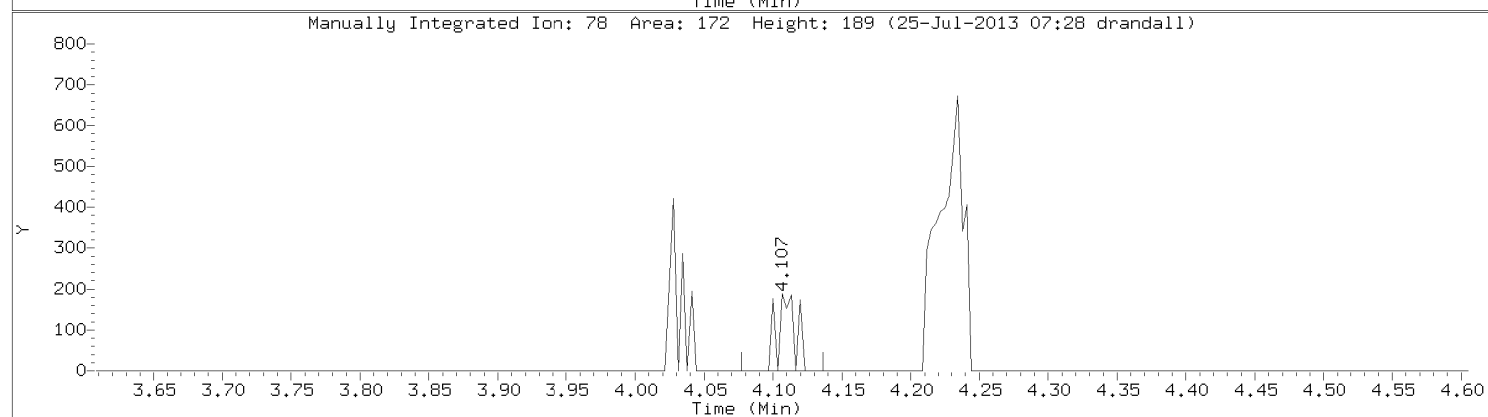
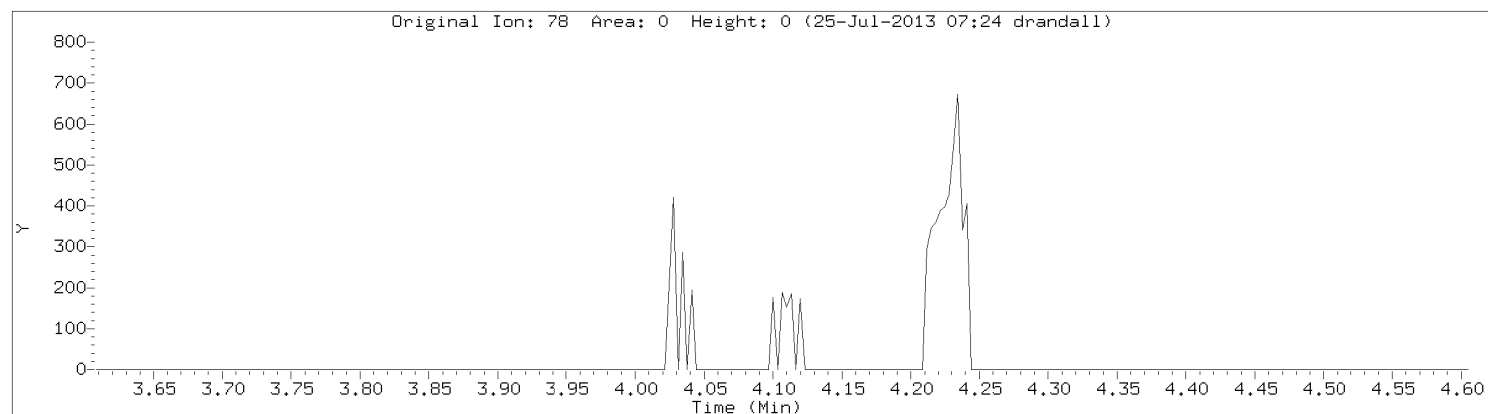


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Instrument: 10airD.i
Lab Sample ID: CAL1

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

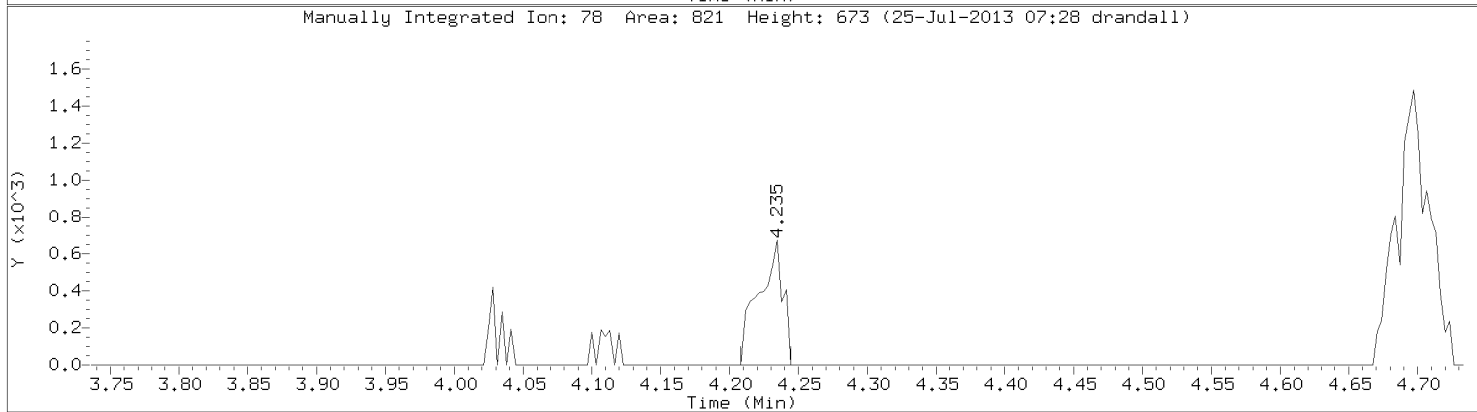
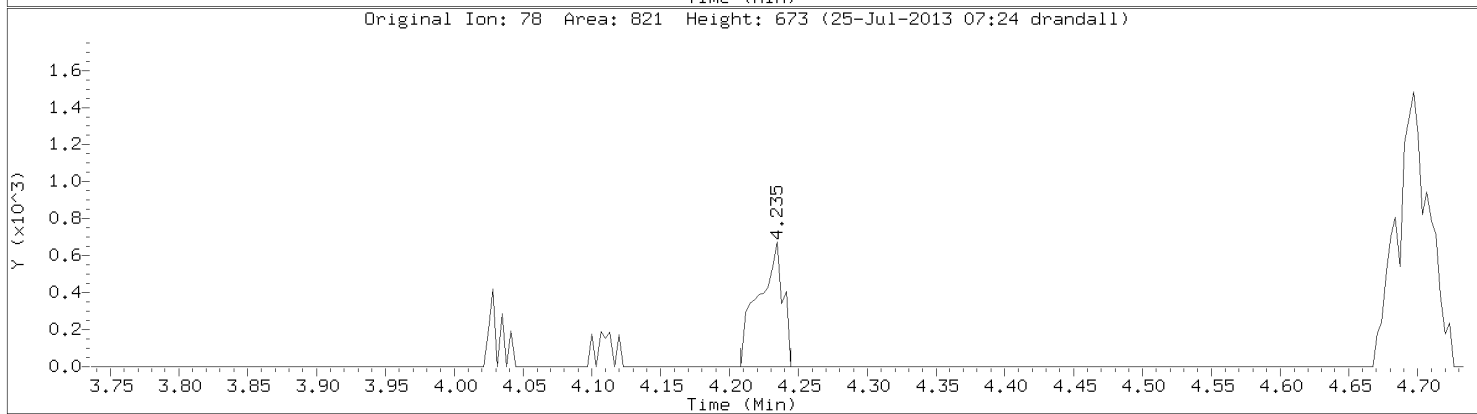
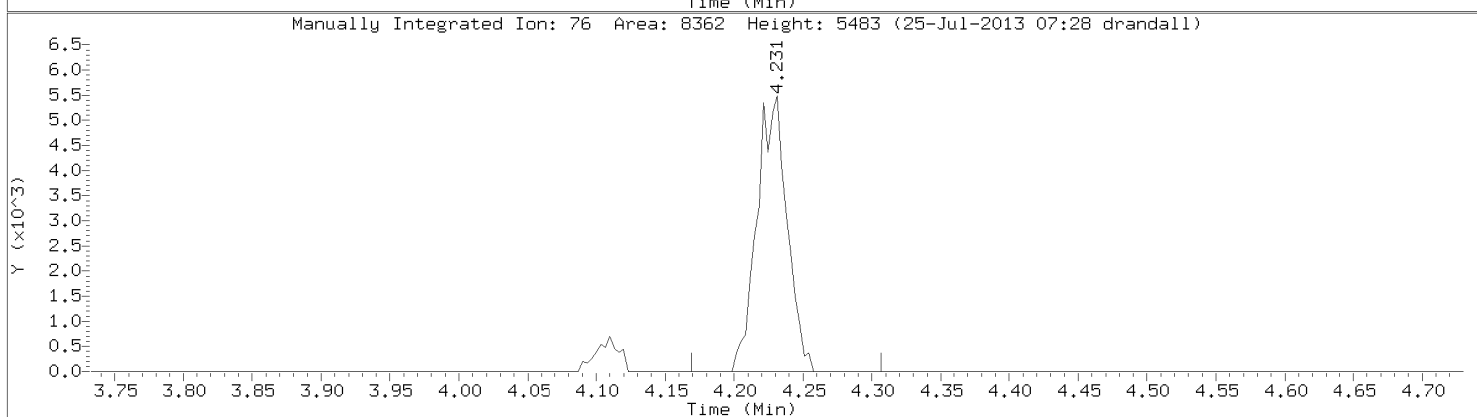
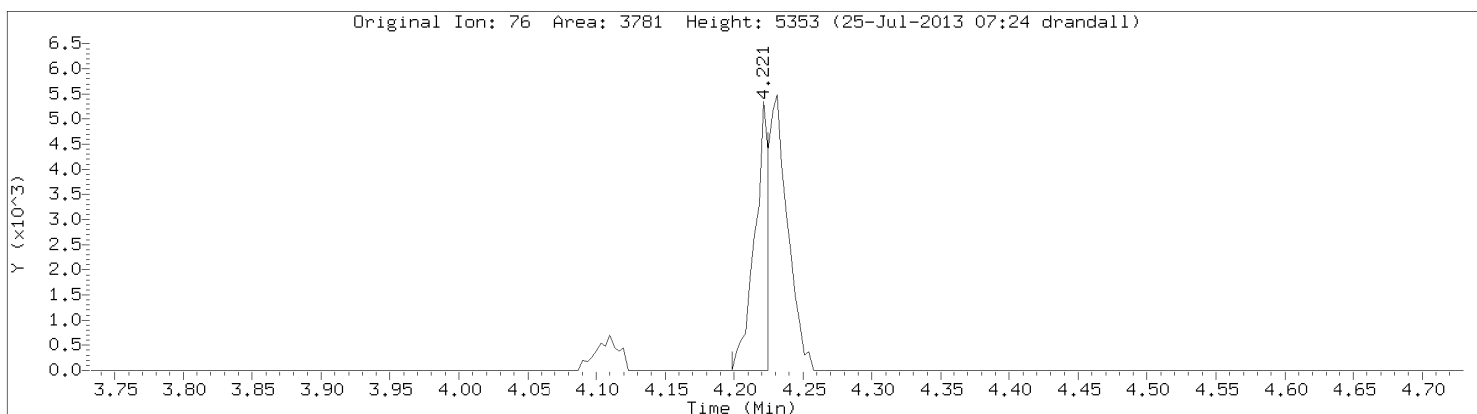


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Lab Sample ID: CAL1



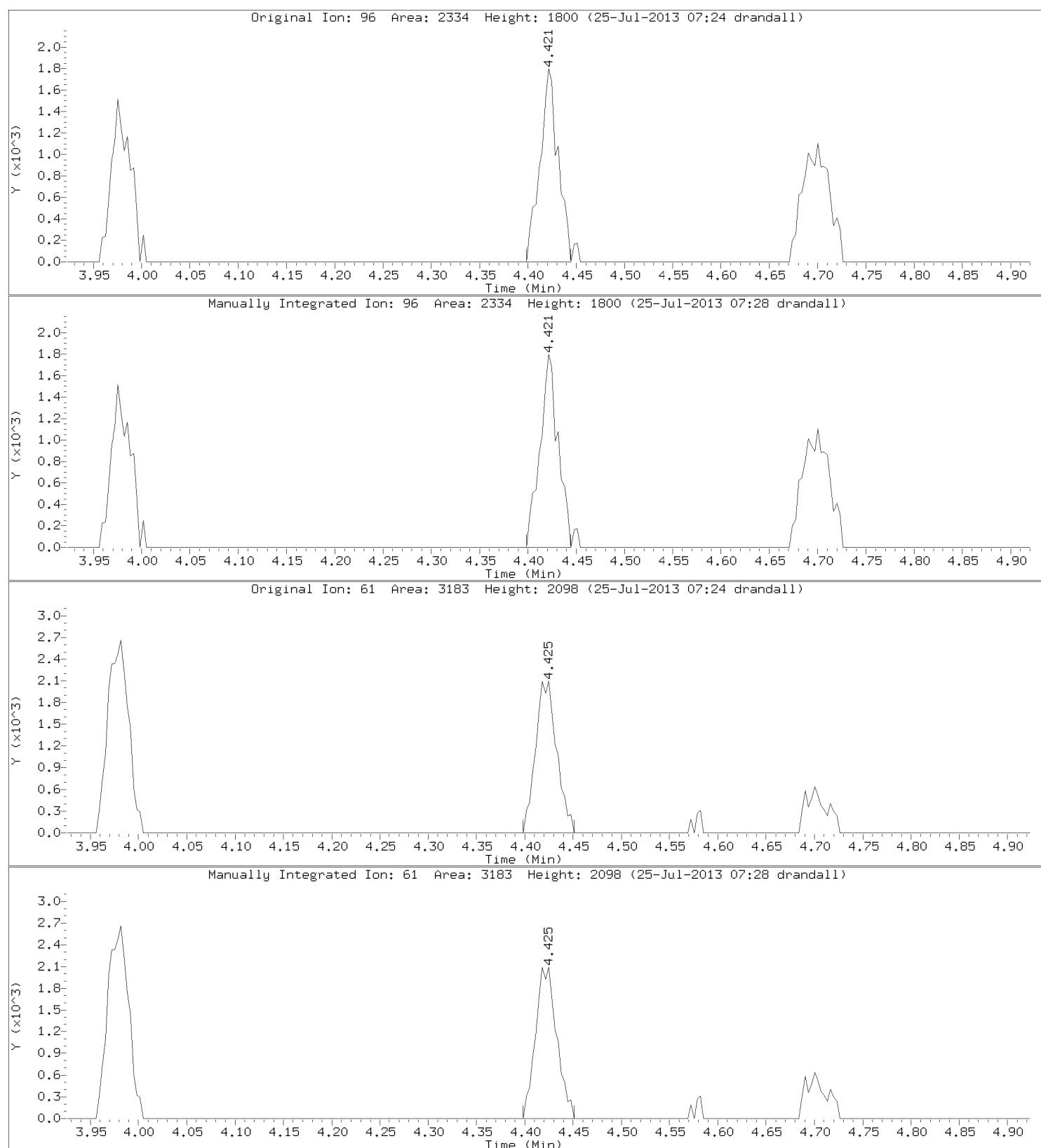
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Instrument: 10airD.i
Lab Sample ID: CAL1

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

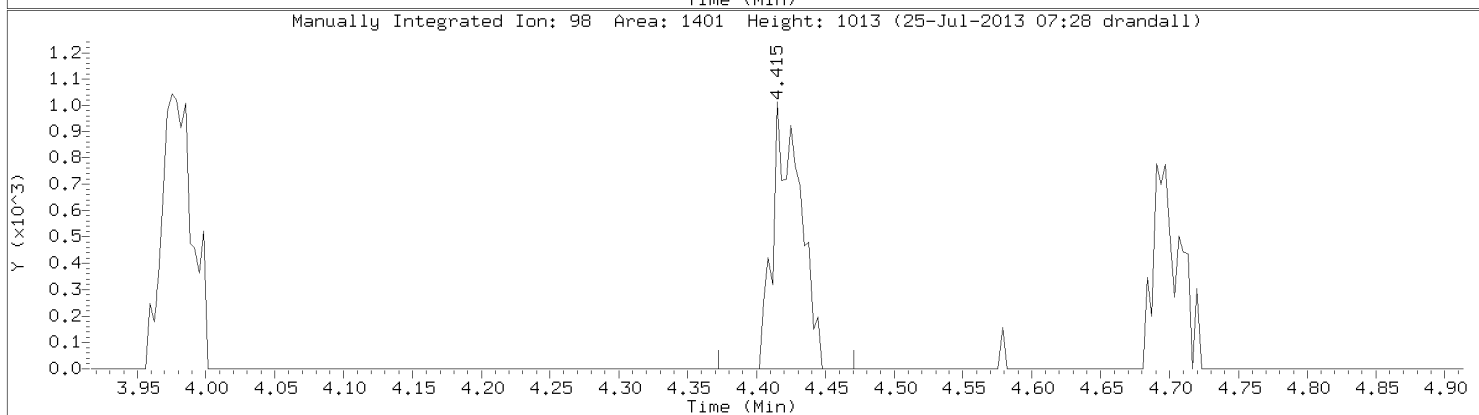
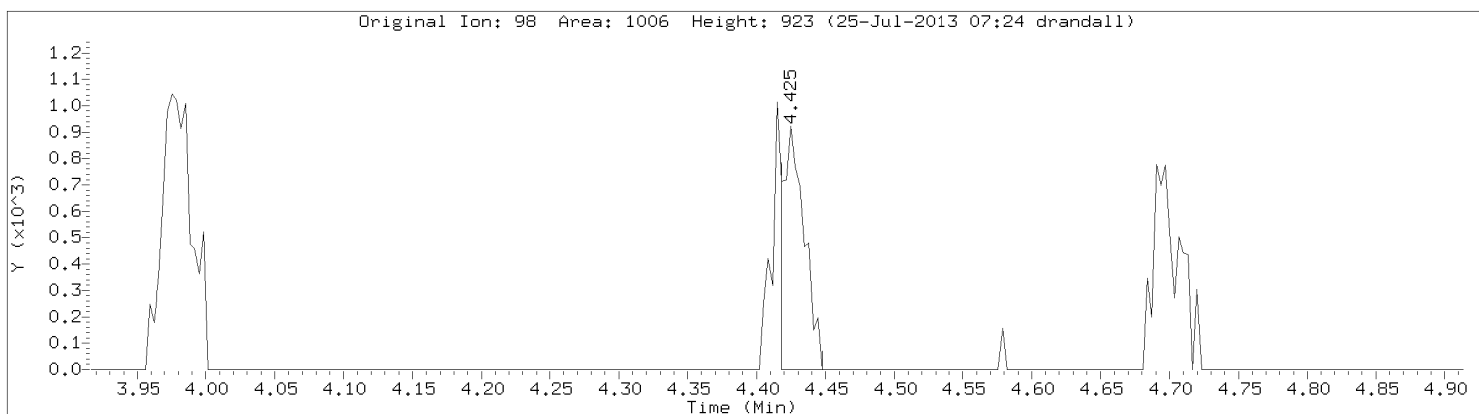


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Instrument: 10airD.i
Lab Sample ID: CAL1

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

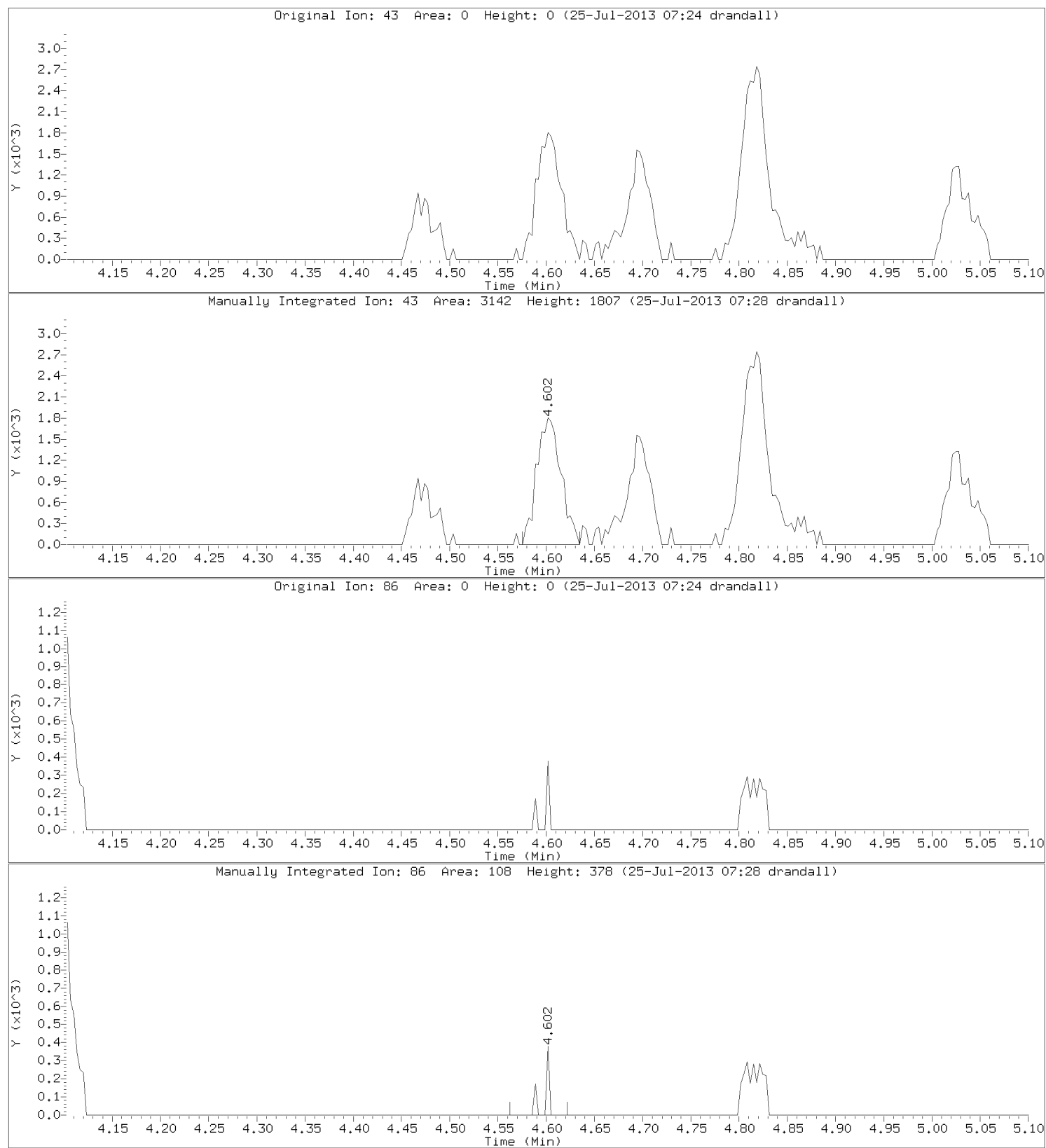


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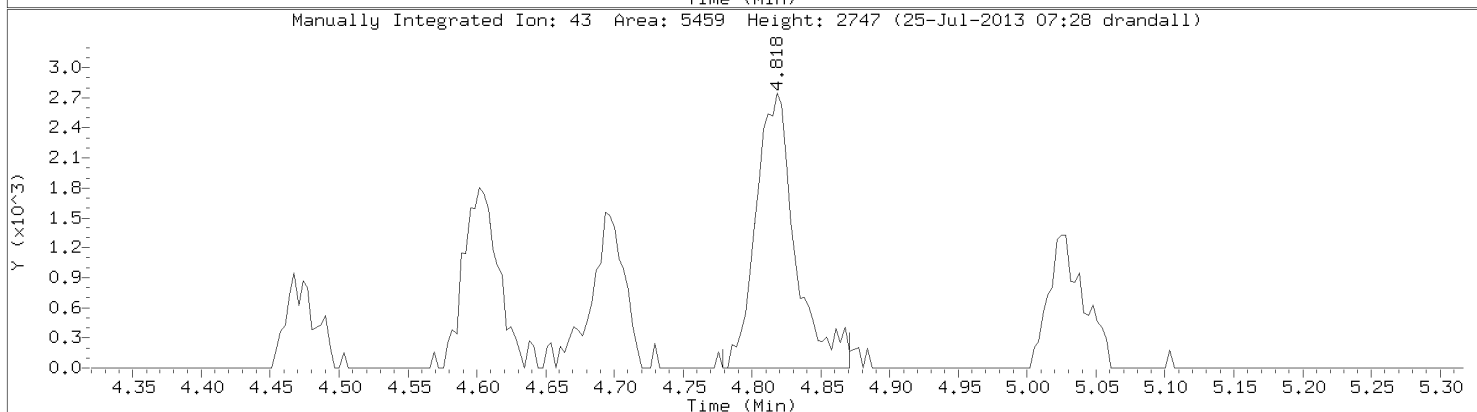
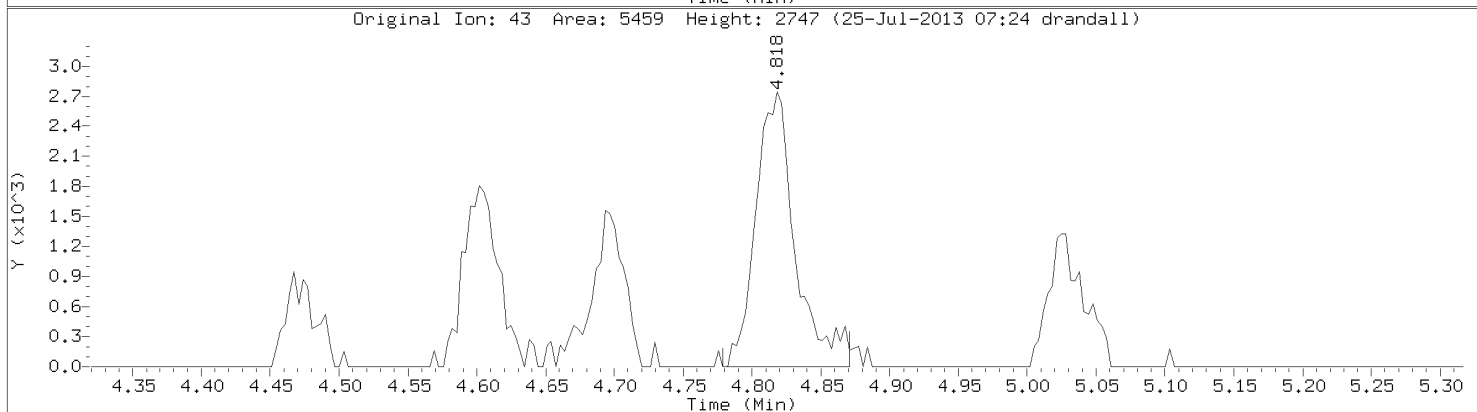
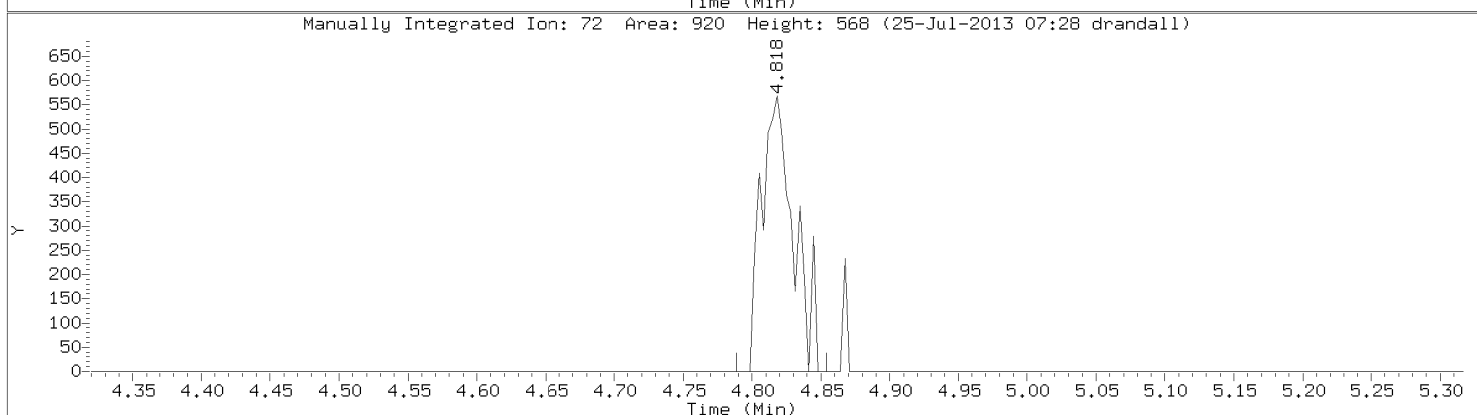
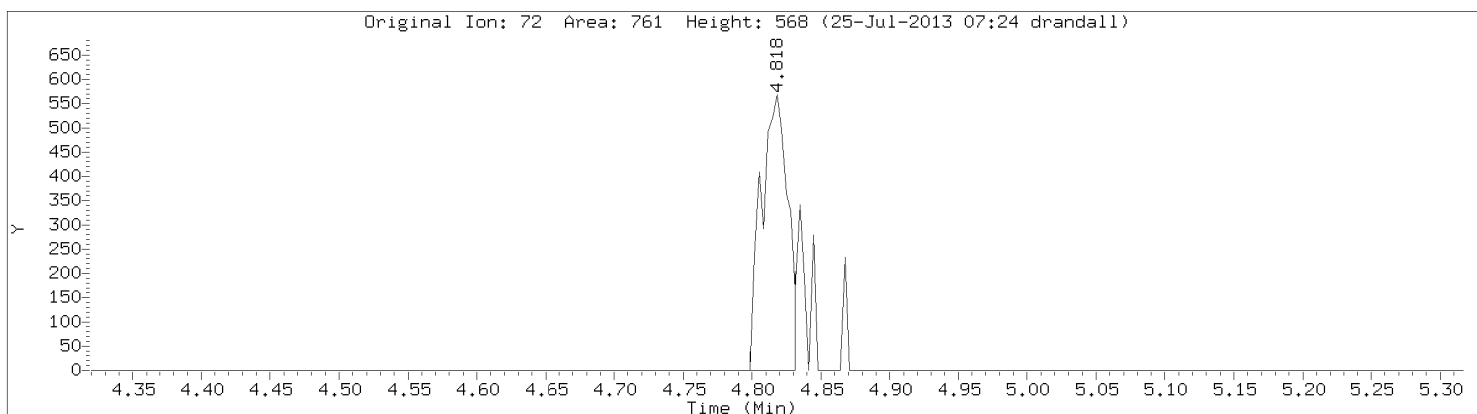
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Instrument: 10airD.i
Lab Sample ID: CAL1

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



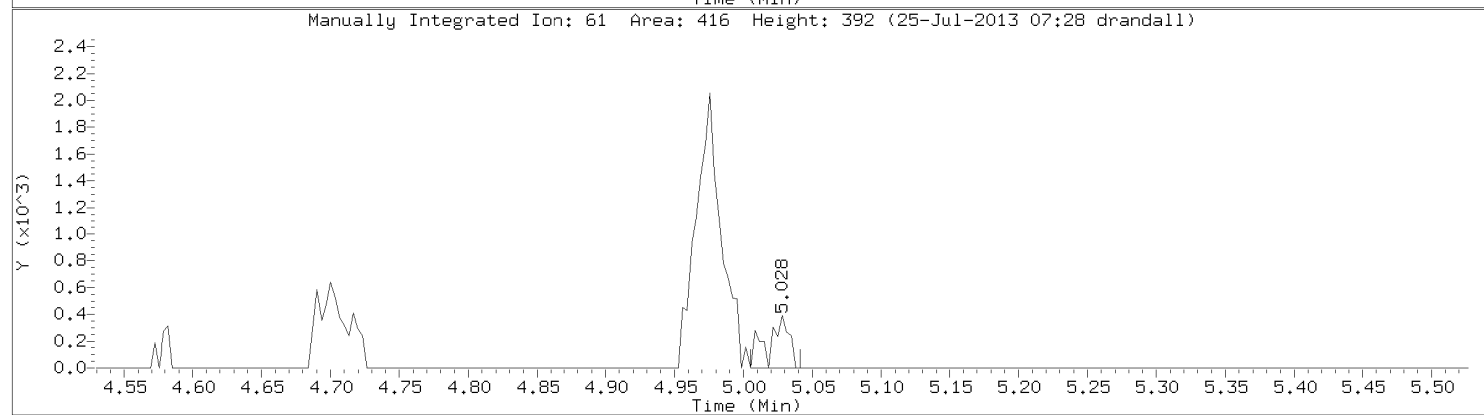
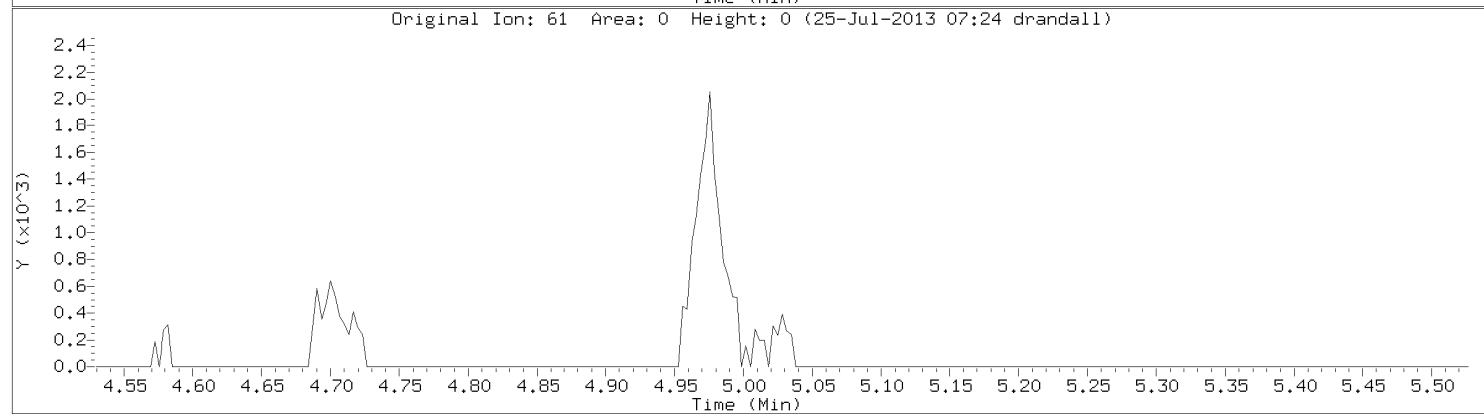
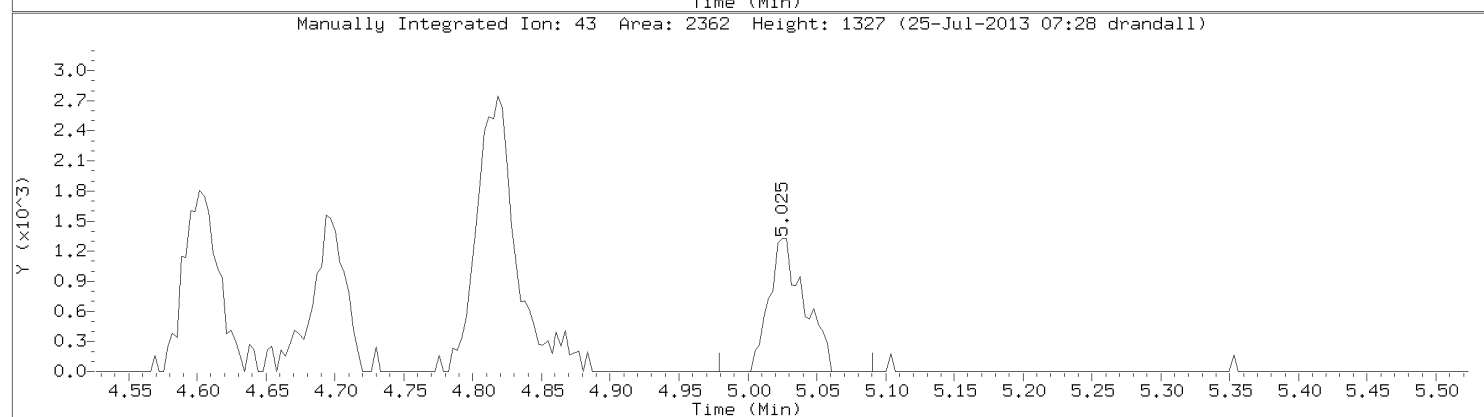
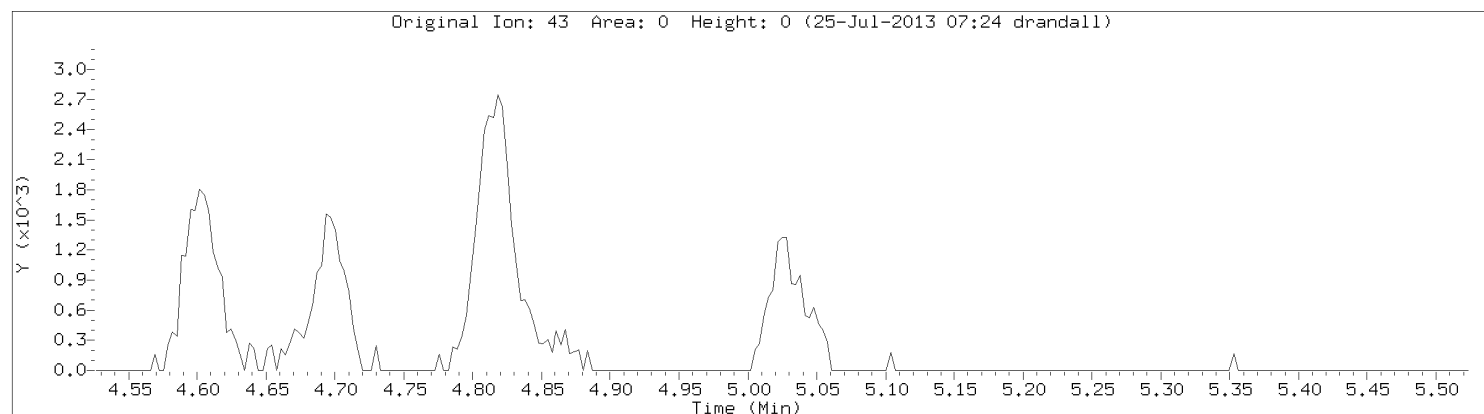
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Instrument: 10airD.i
Lab Sample ID: CAL1

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

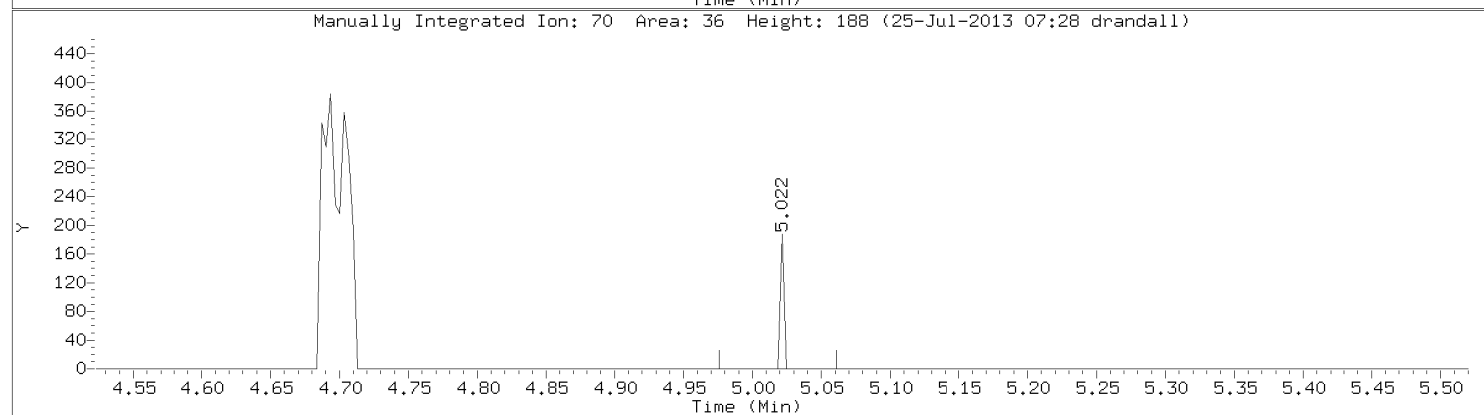
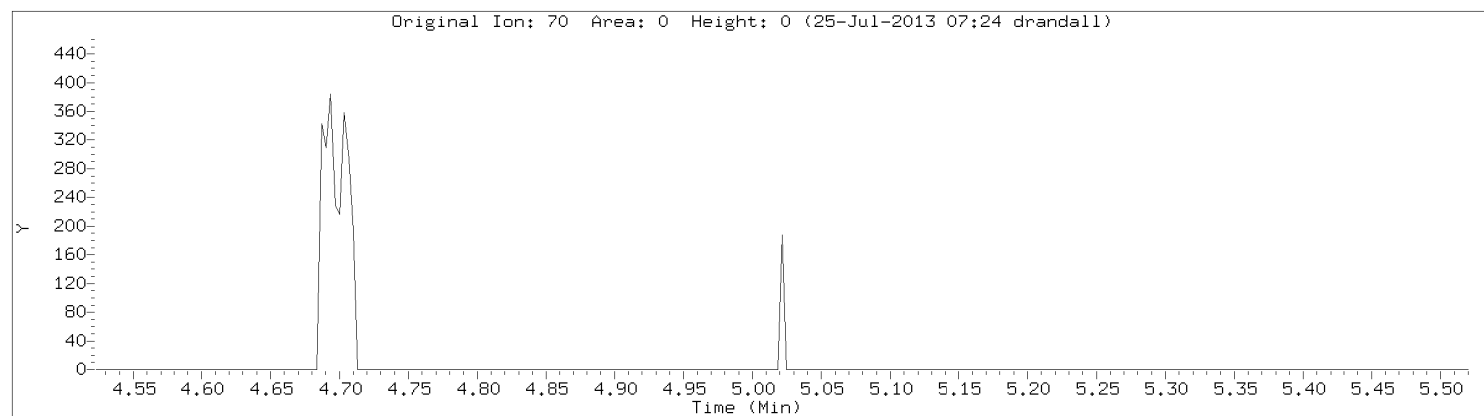


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Instrument: 10airD.i
Lab Sample ID: CAL1

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

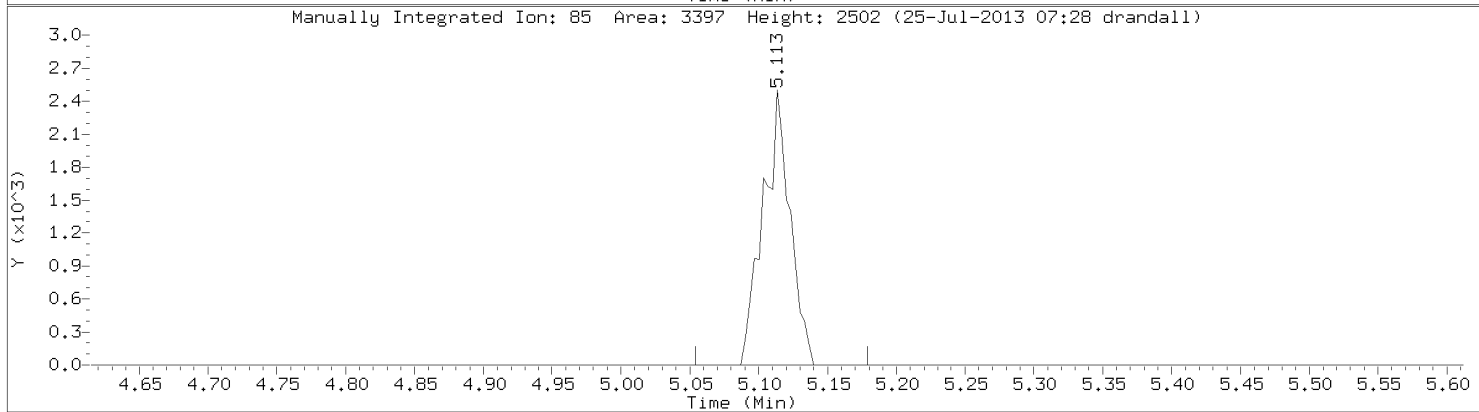
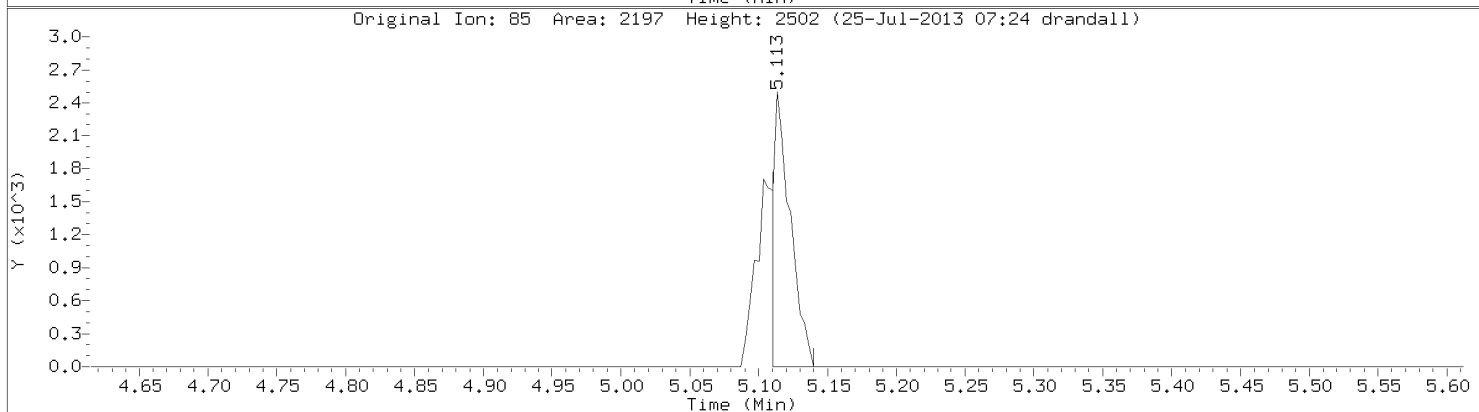
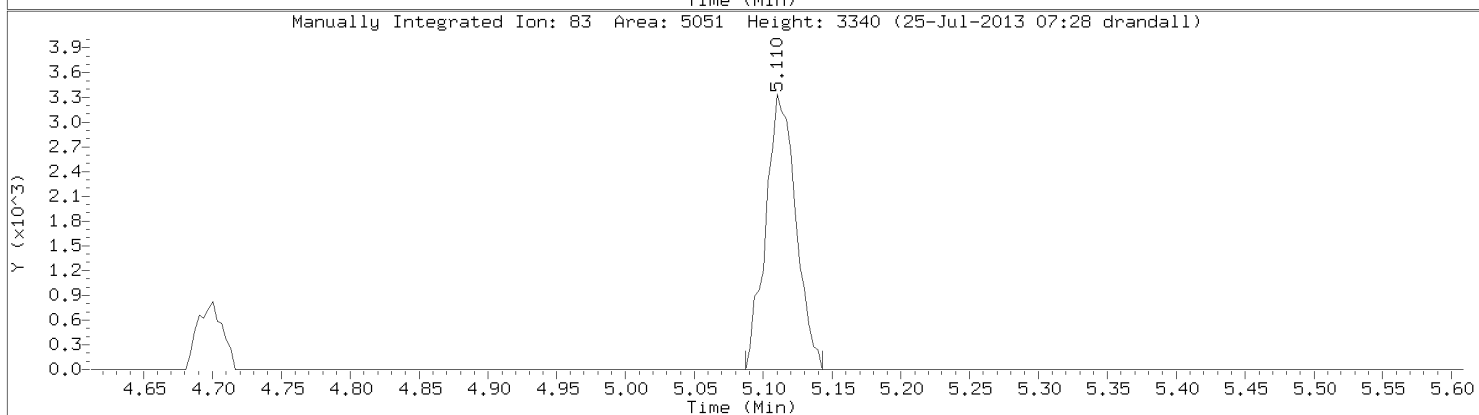
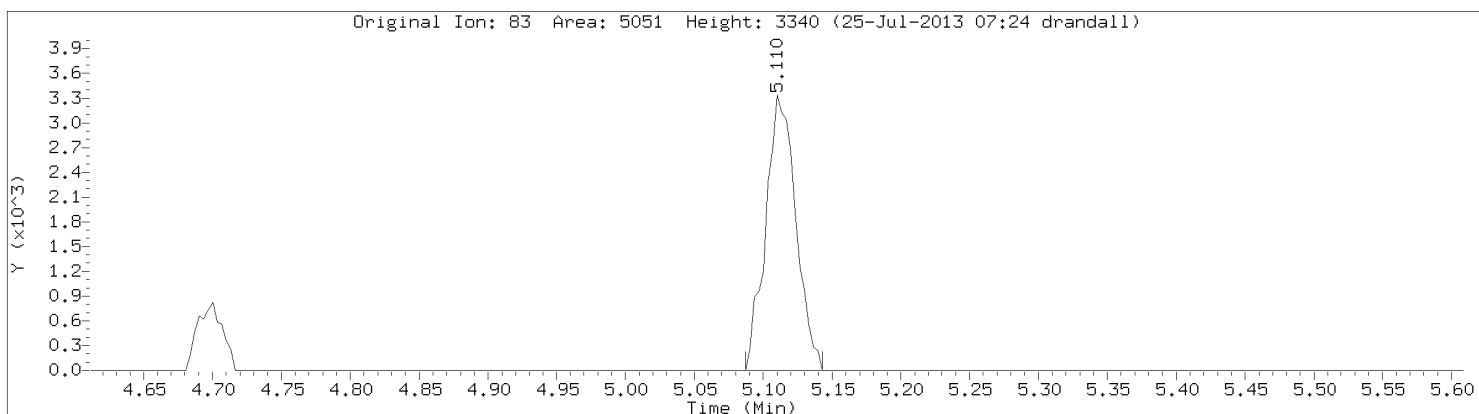


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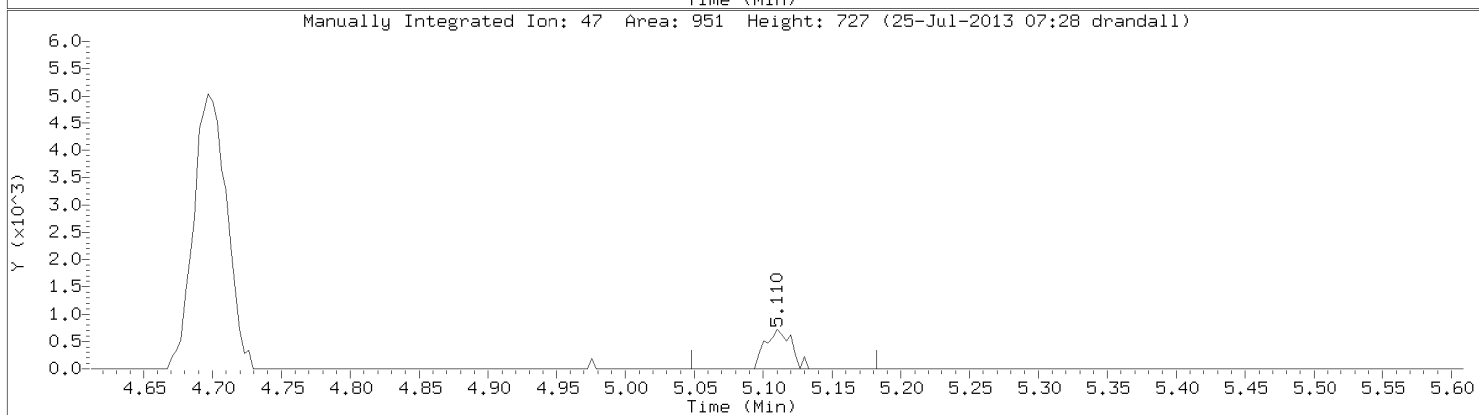
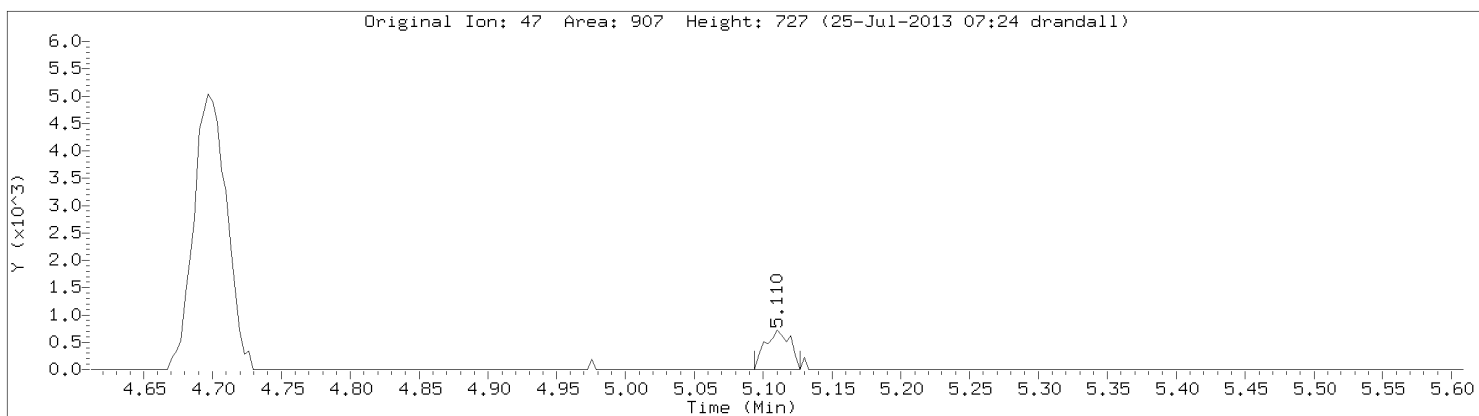


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Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Chloroform
CAS Number: 67-66-3

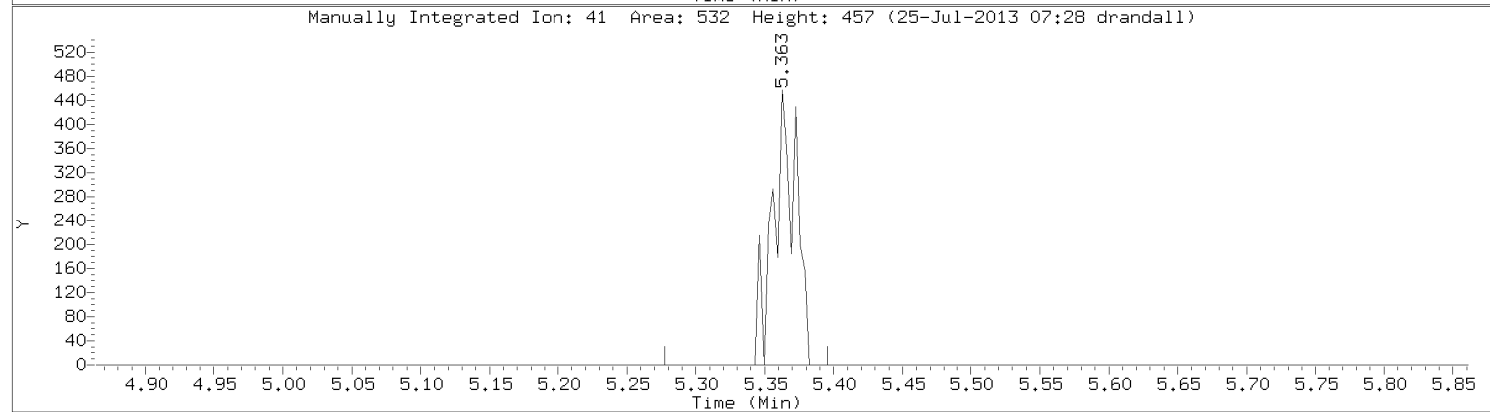
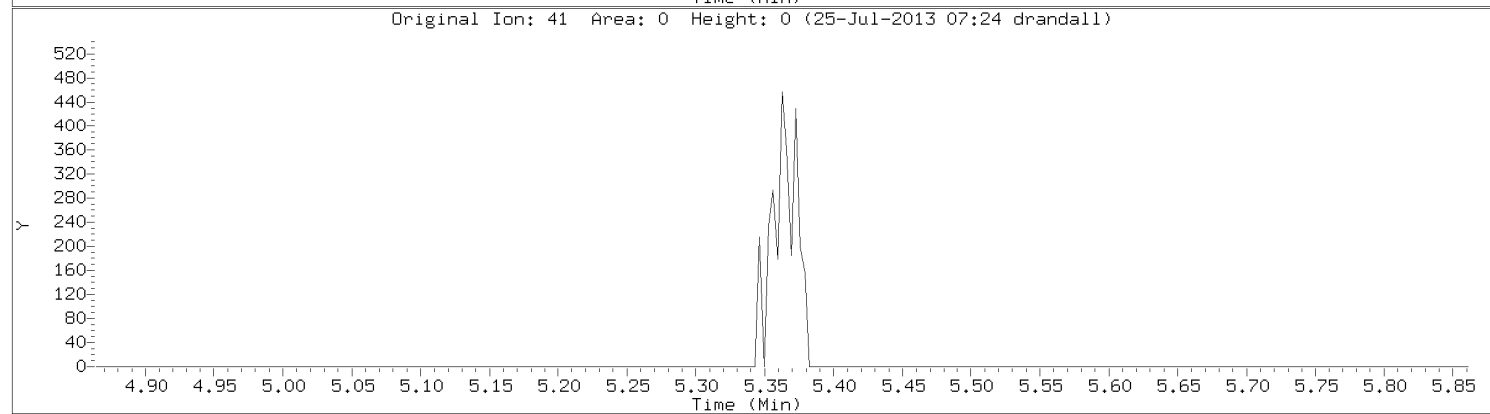
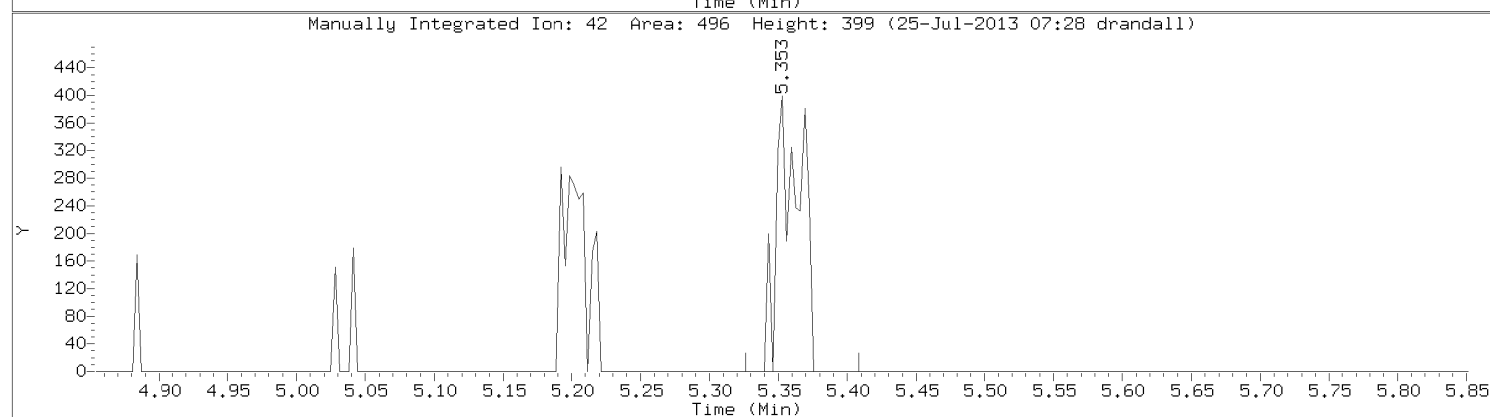
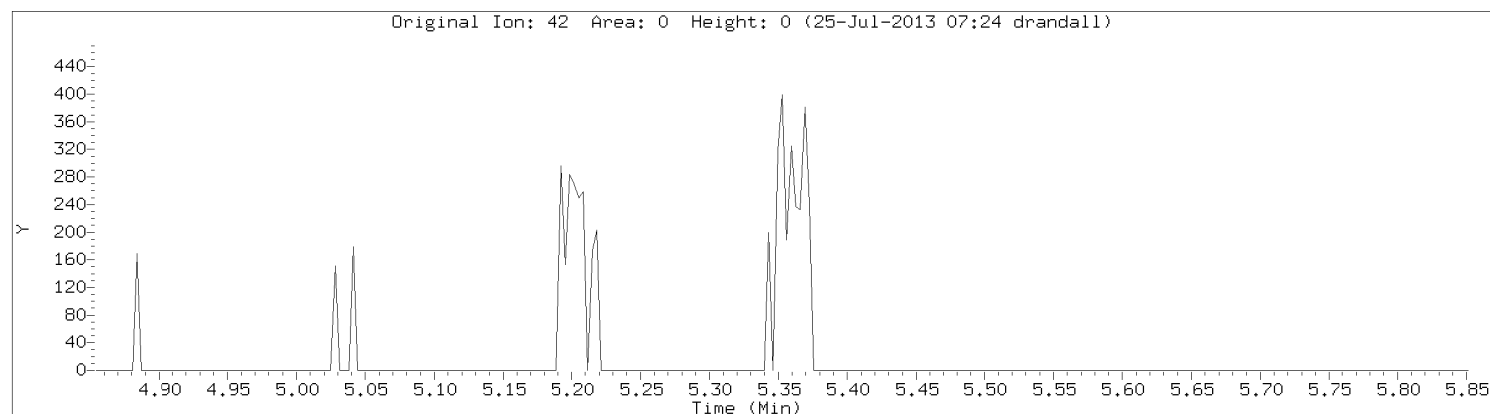


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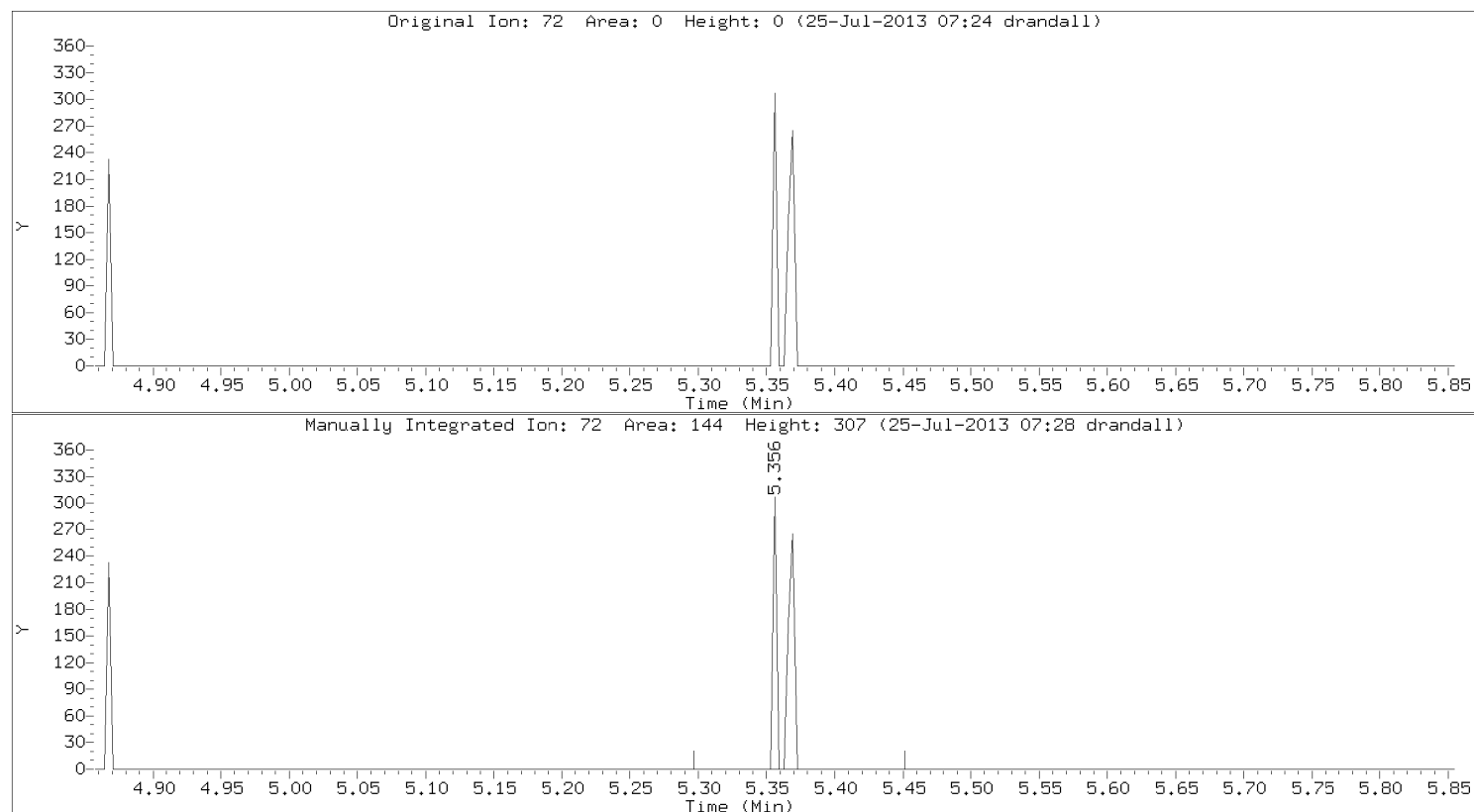


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Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Tetrahydrofuran
CAS Number: 109-99-9

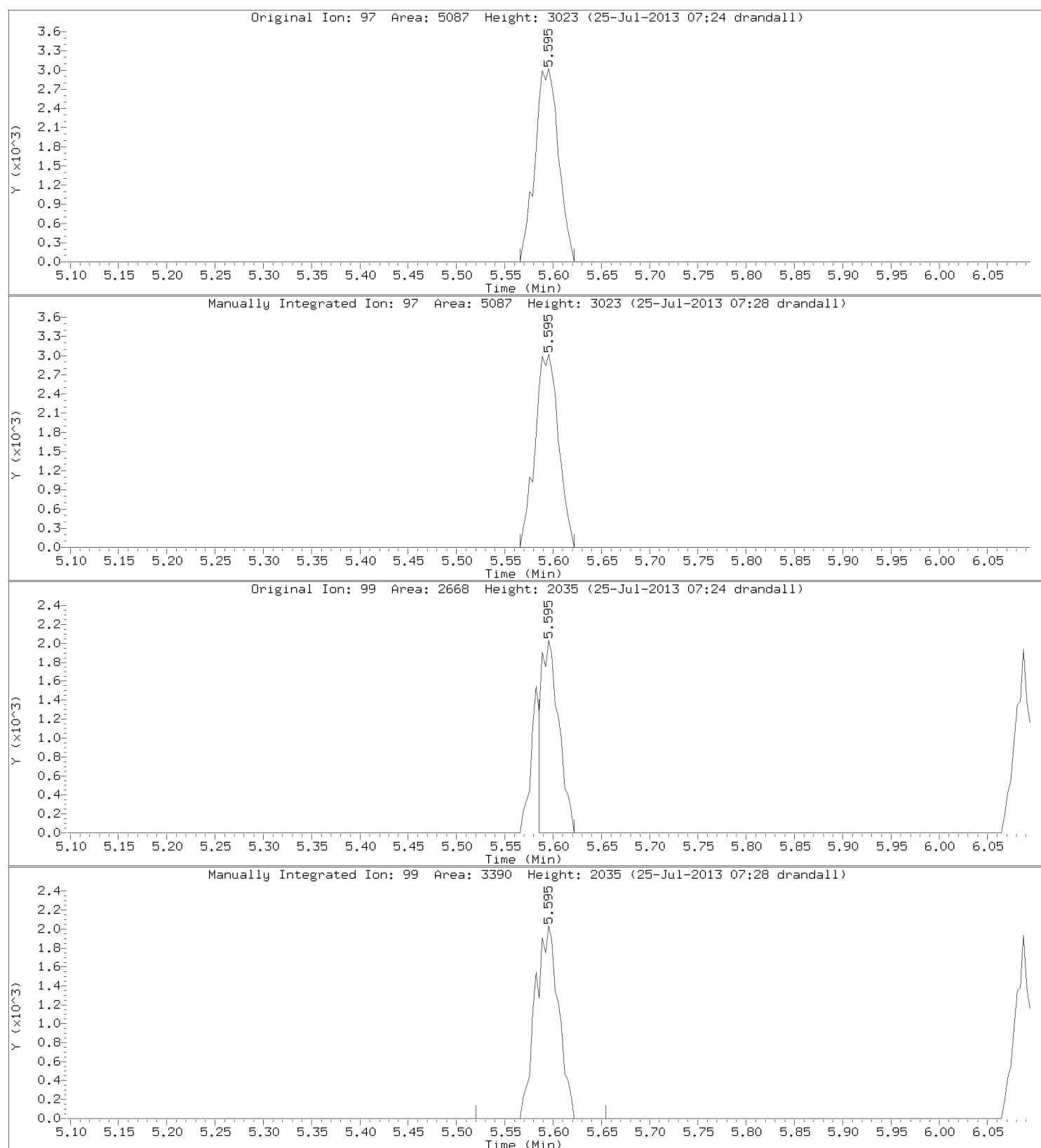


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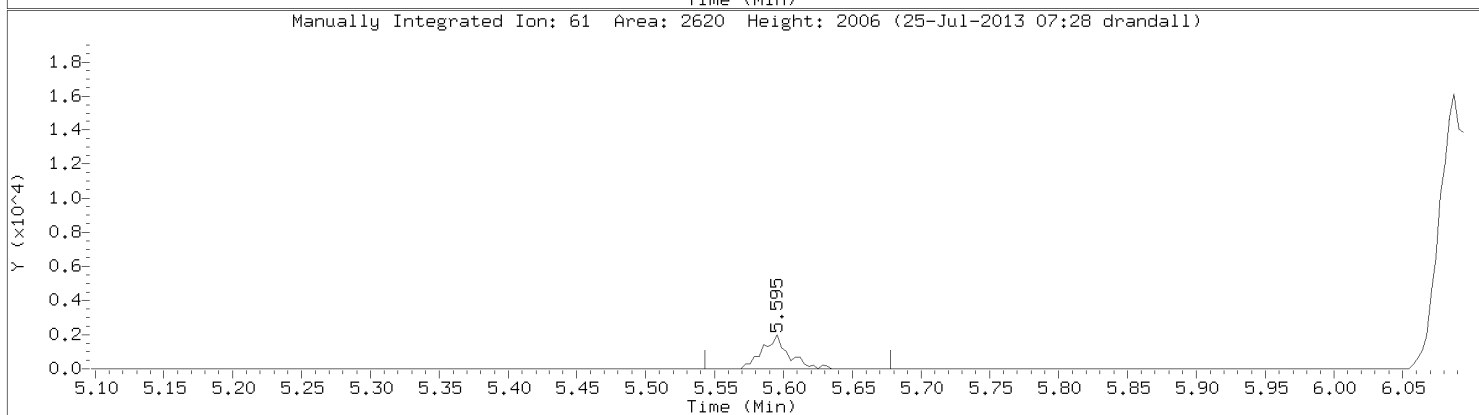
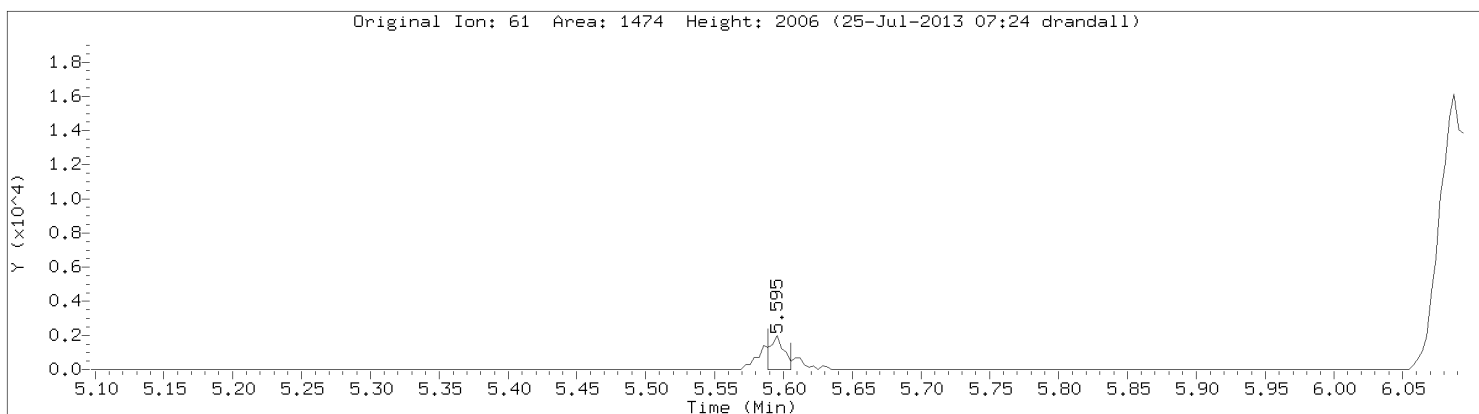


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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

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

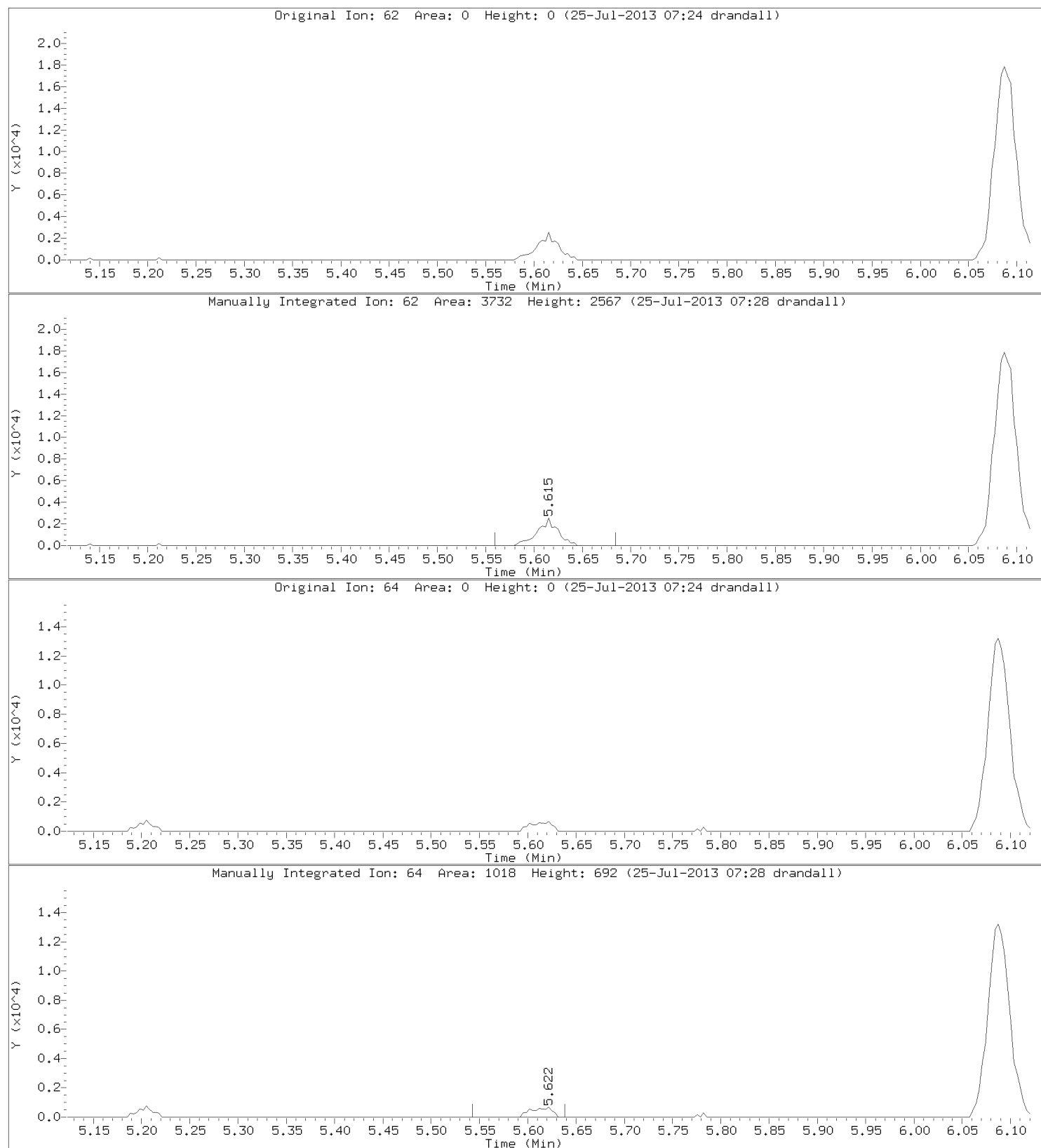


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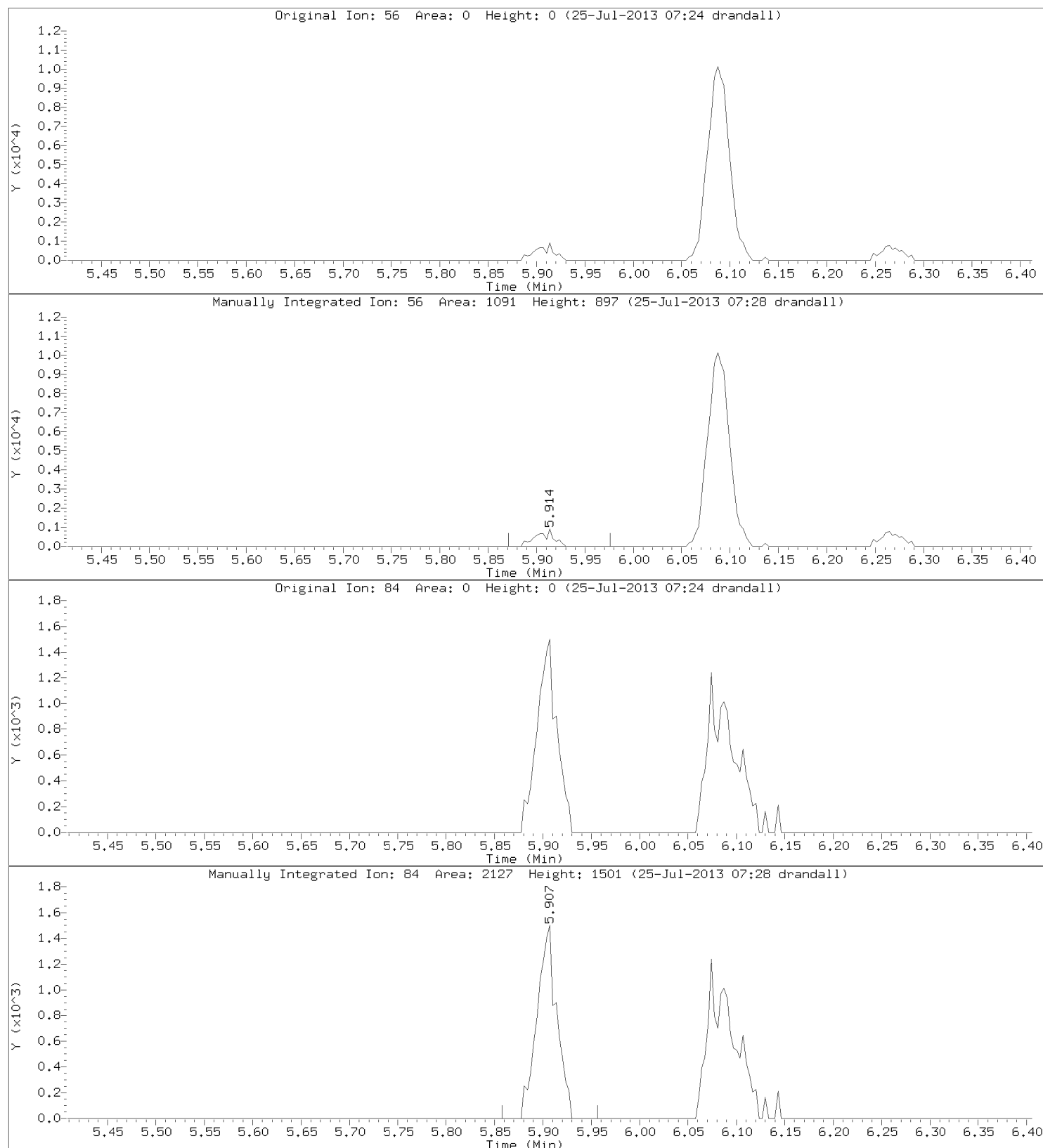
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Instrument: 10airD.i
Lab Sample ID: CAL1

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

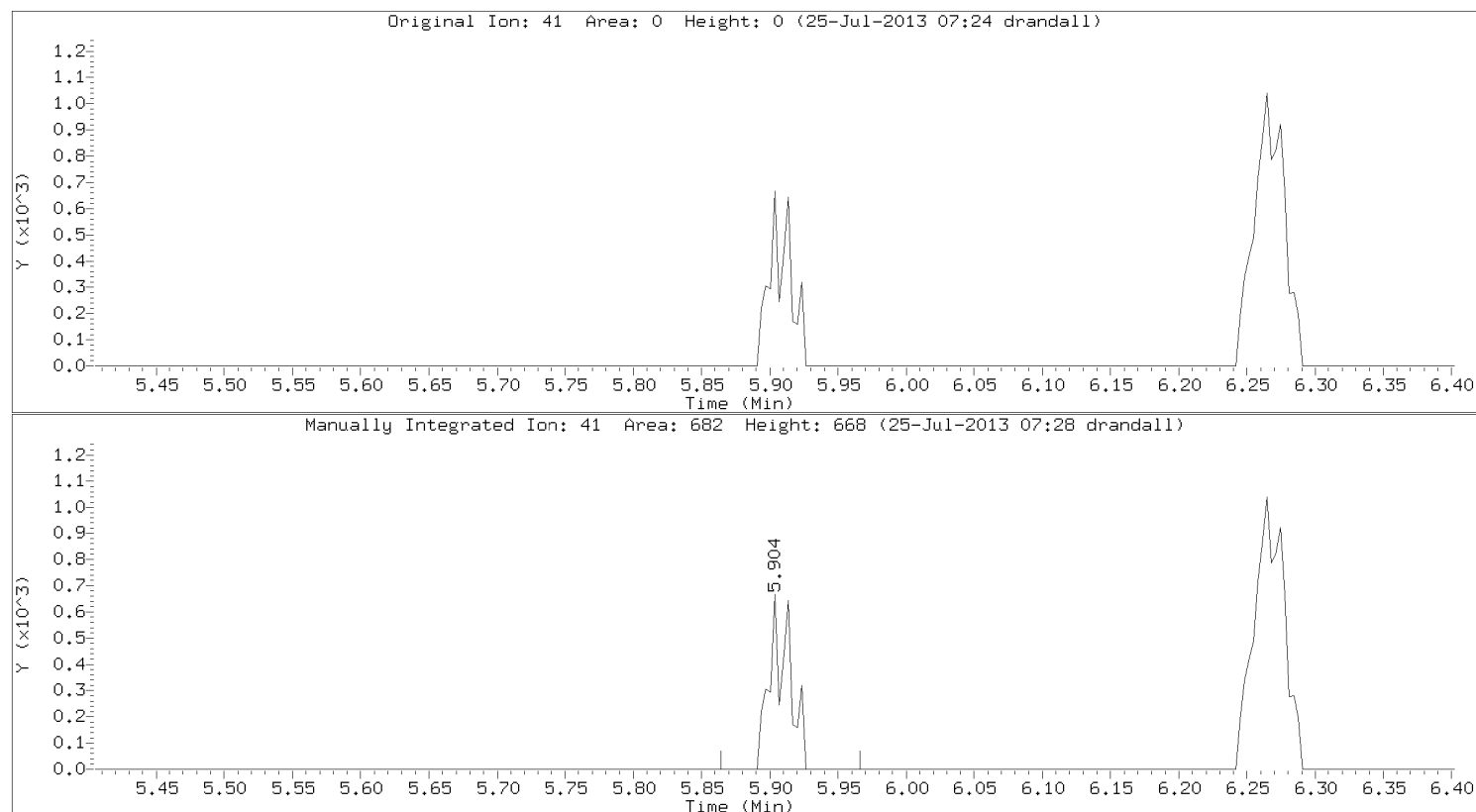


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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Cyclohexane
CAS Number: 110-82-7

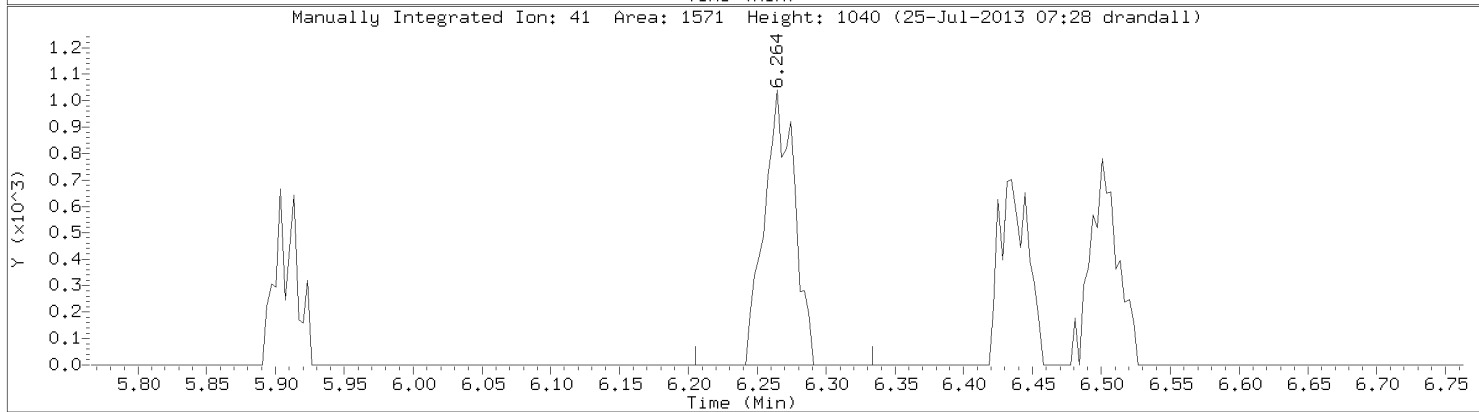
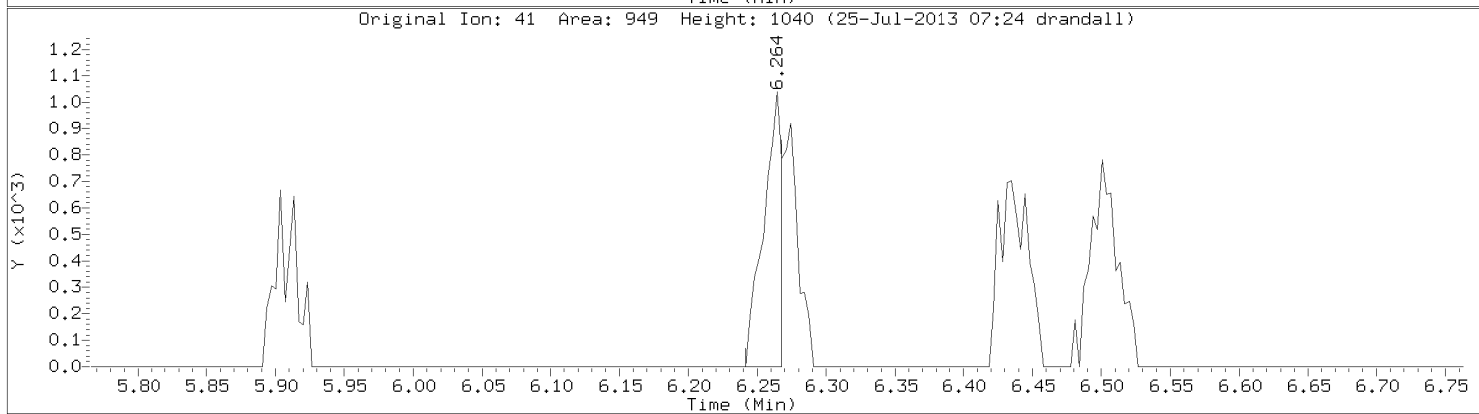
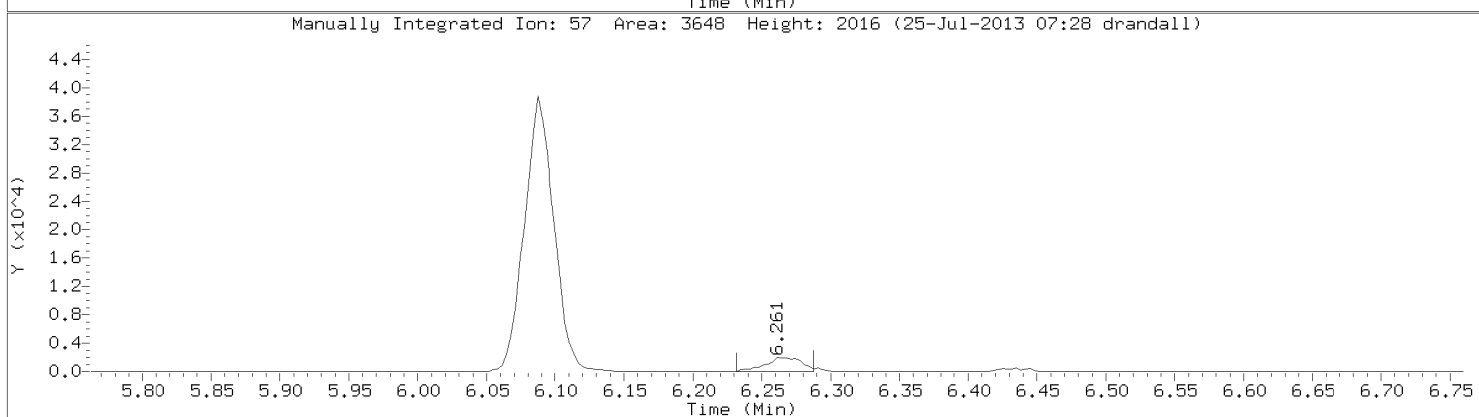
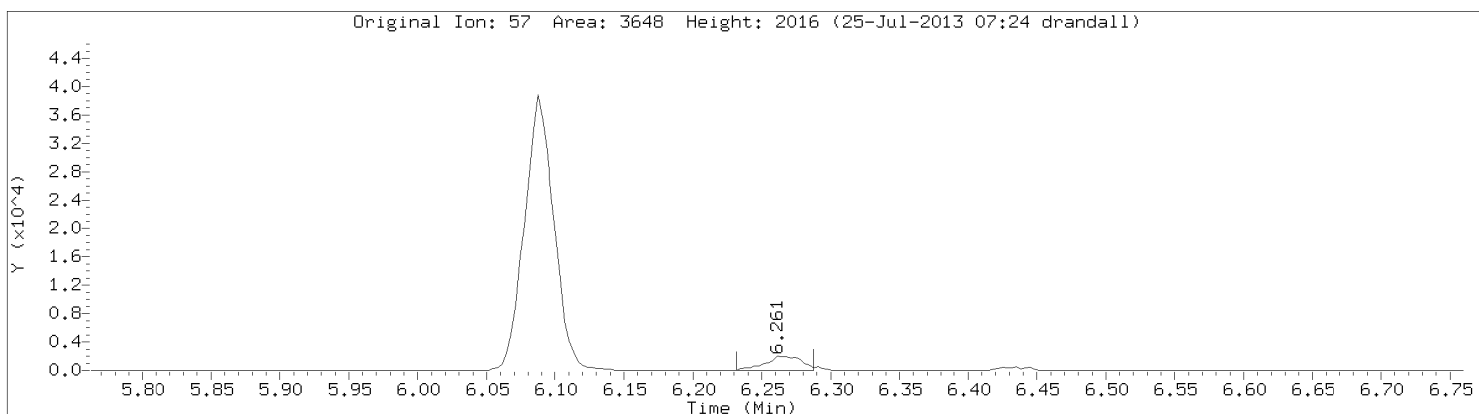


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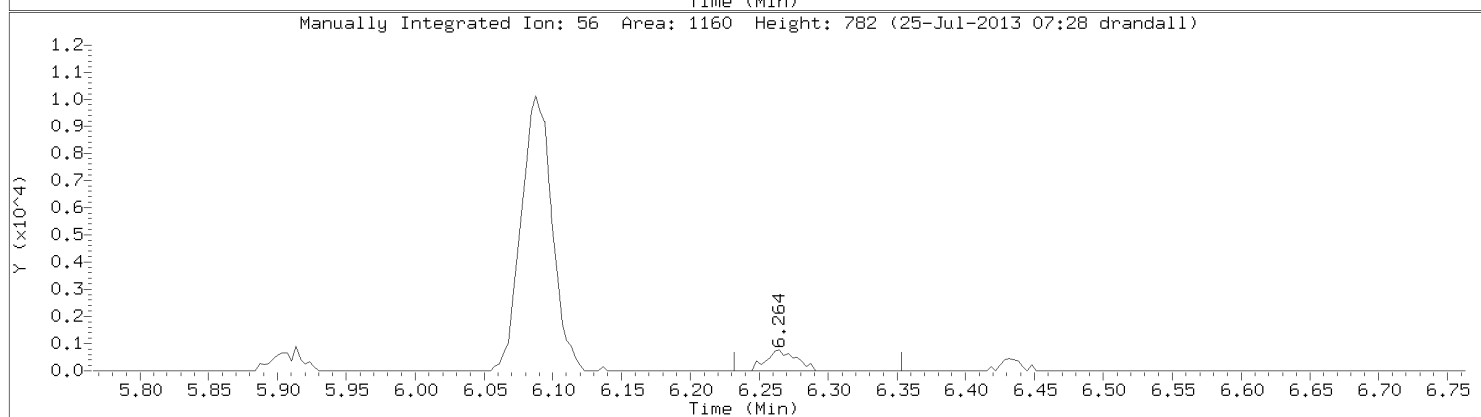
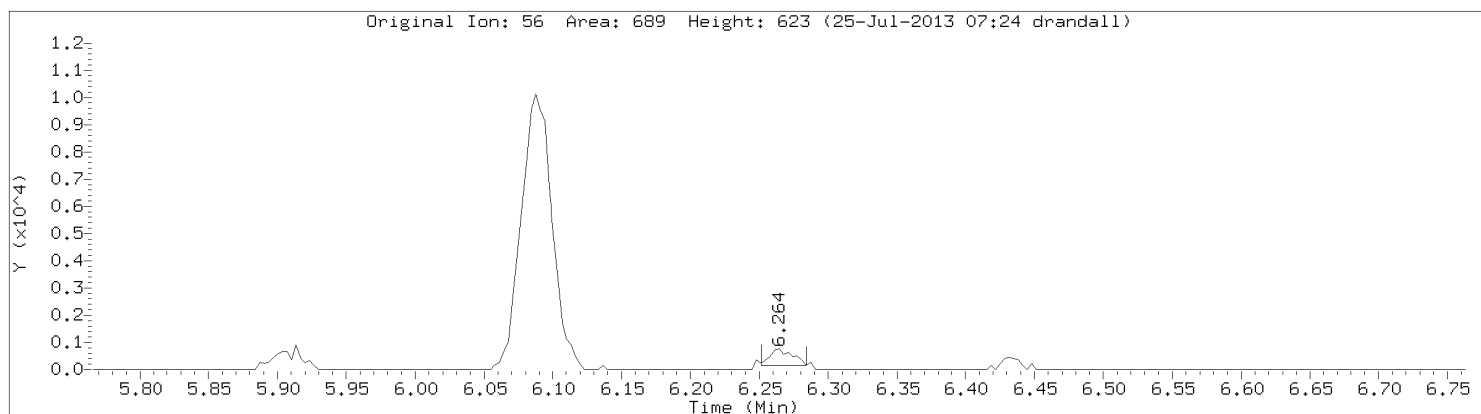


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Instrument: 10airD.i
Lab Sample ID: CAL1

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

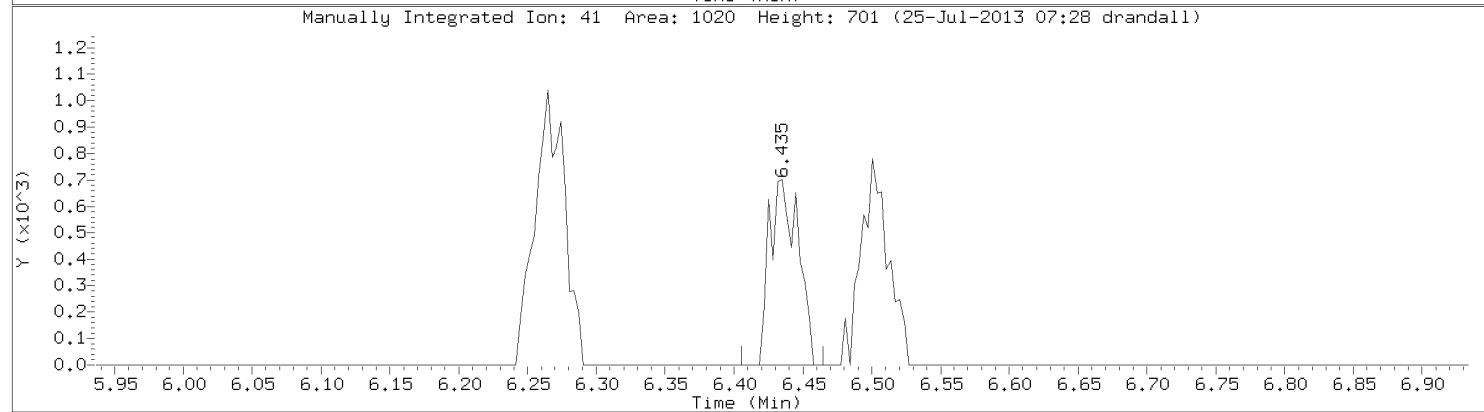
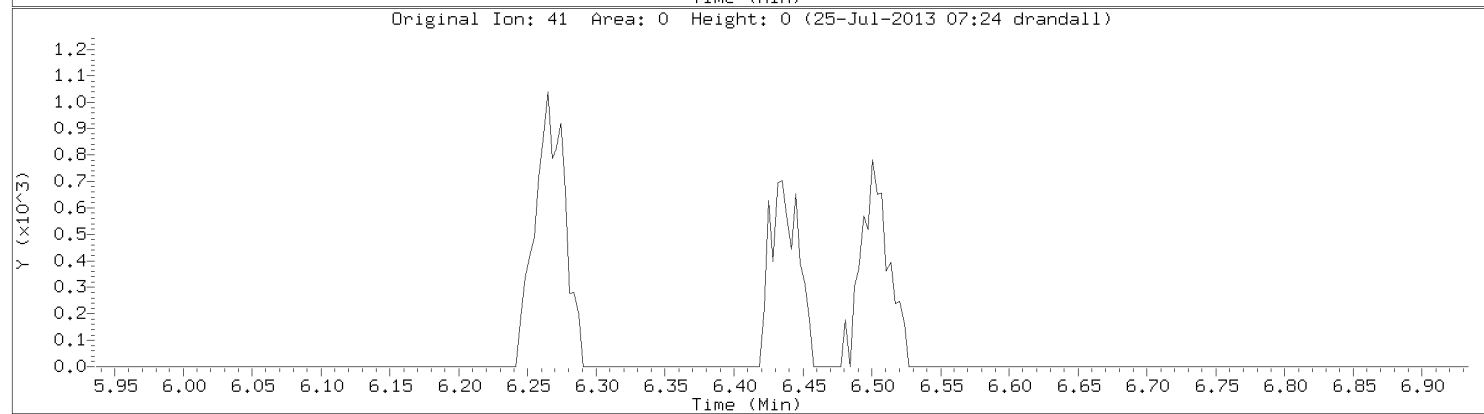
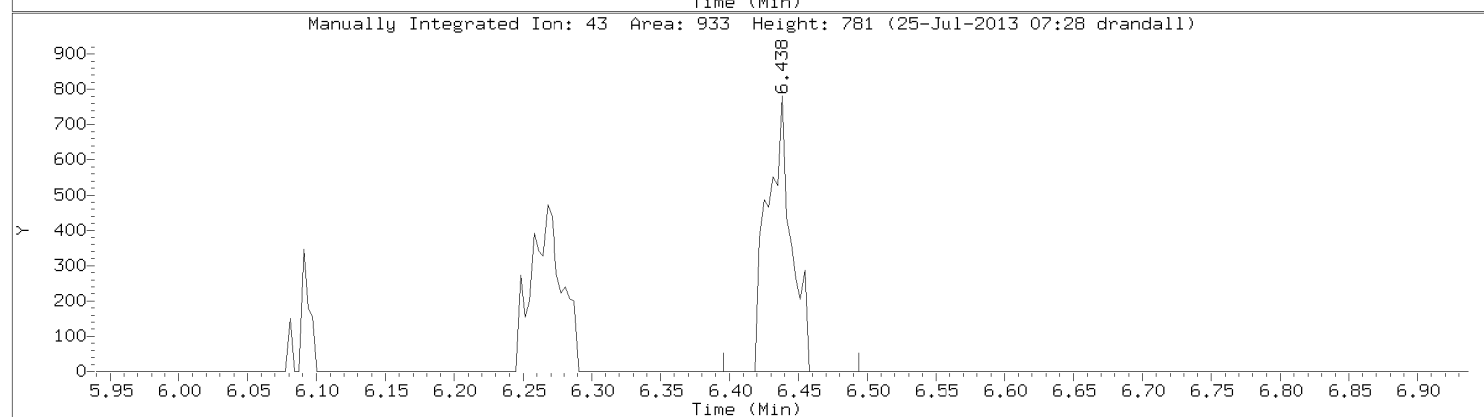
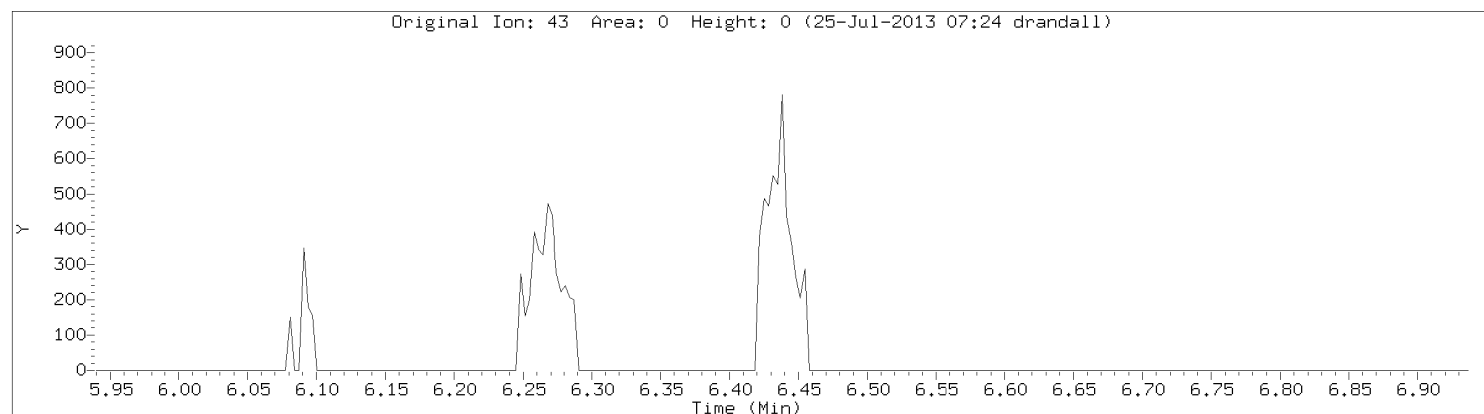


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Lab Sample ID: CAL1



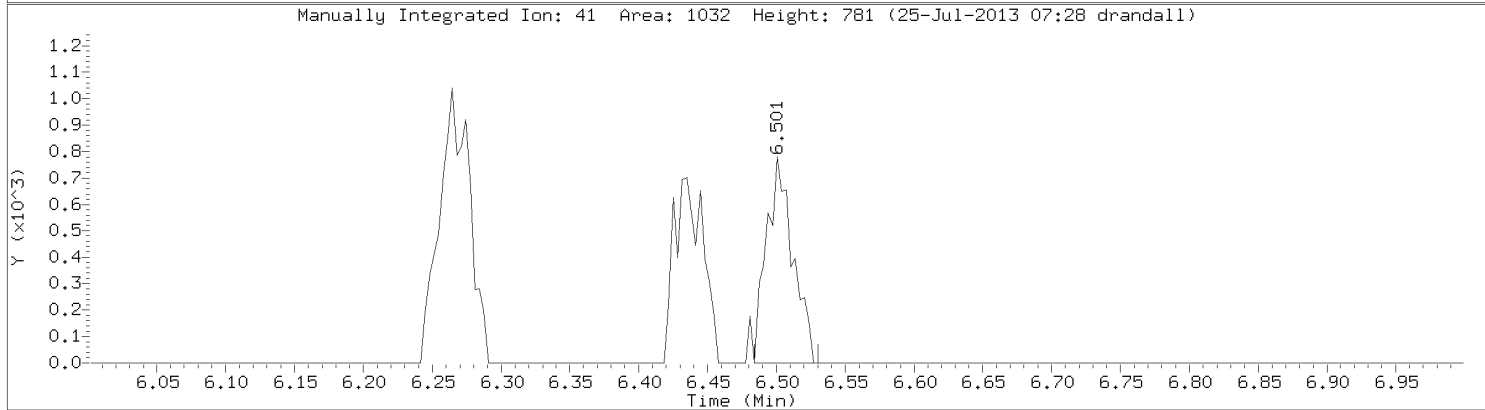
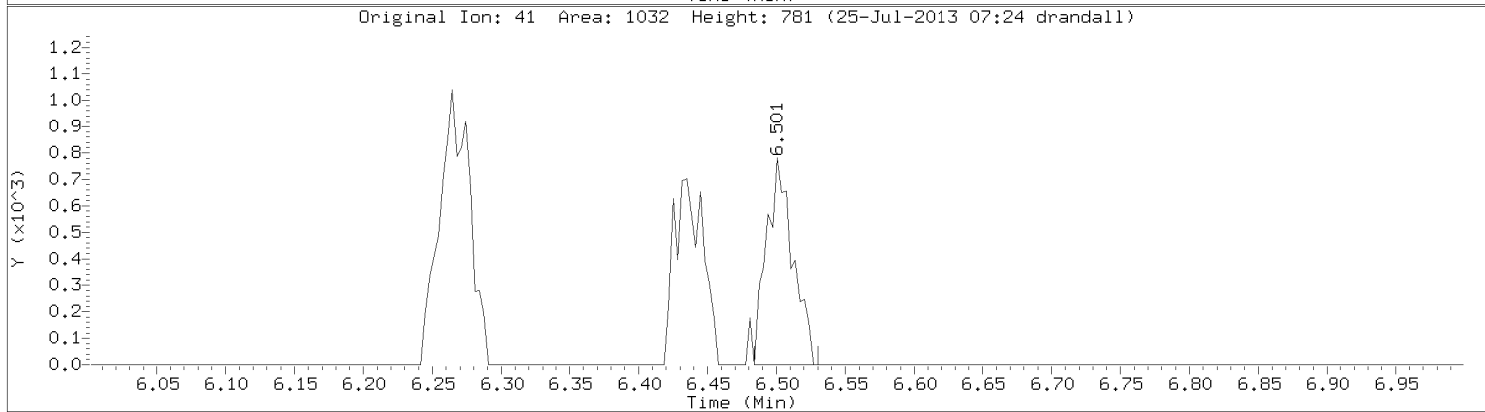
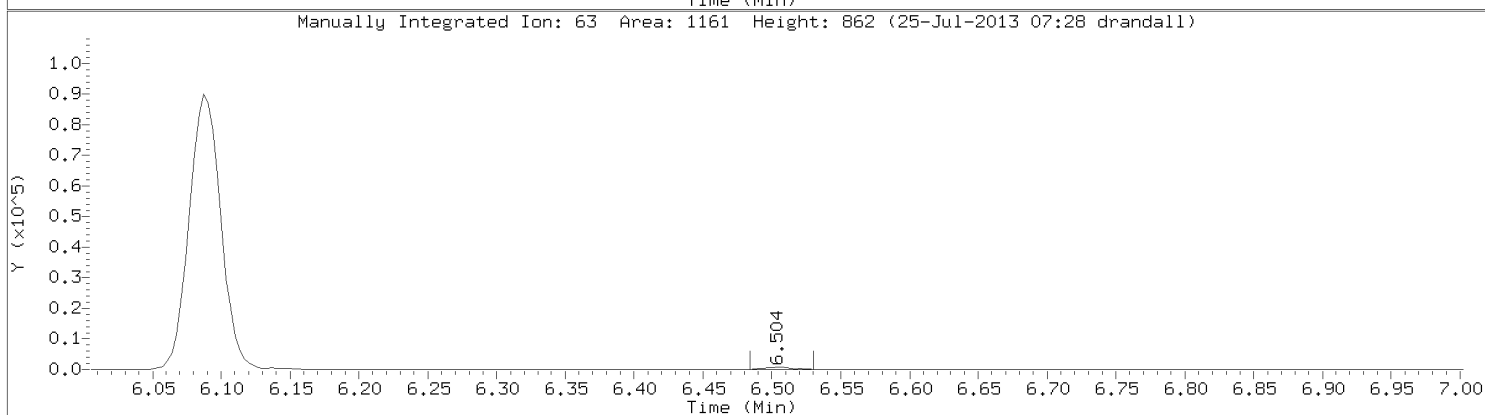
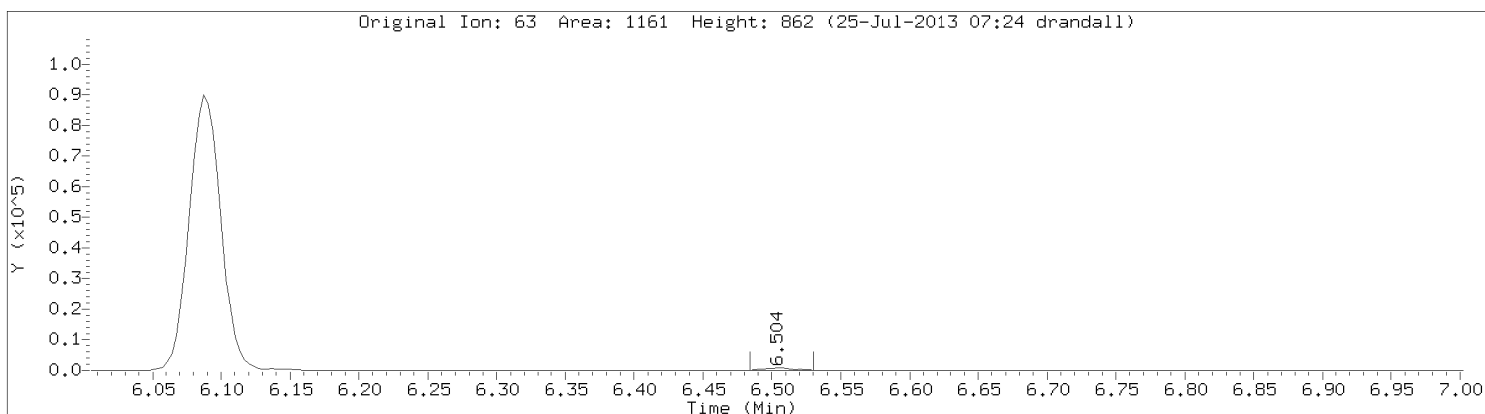
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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Heptane
CAS Number: 142-82-5

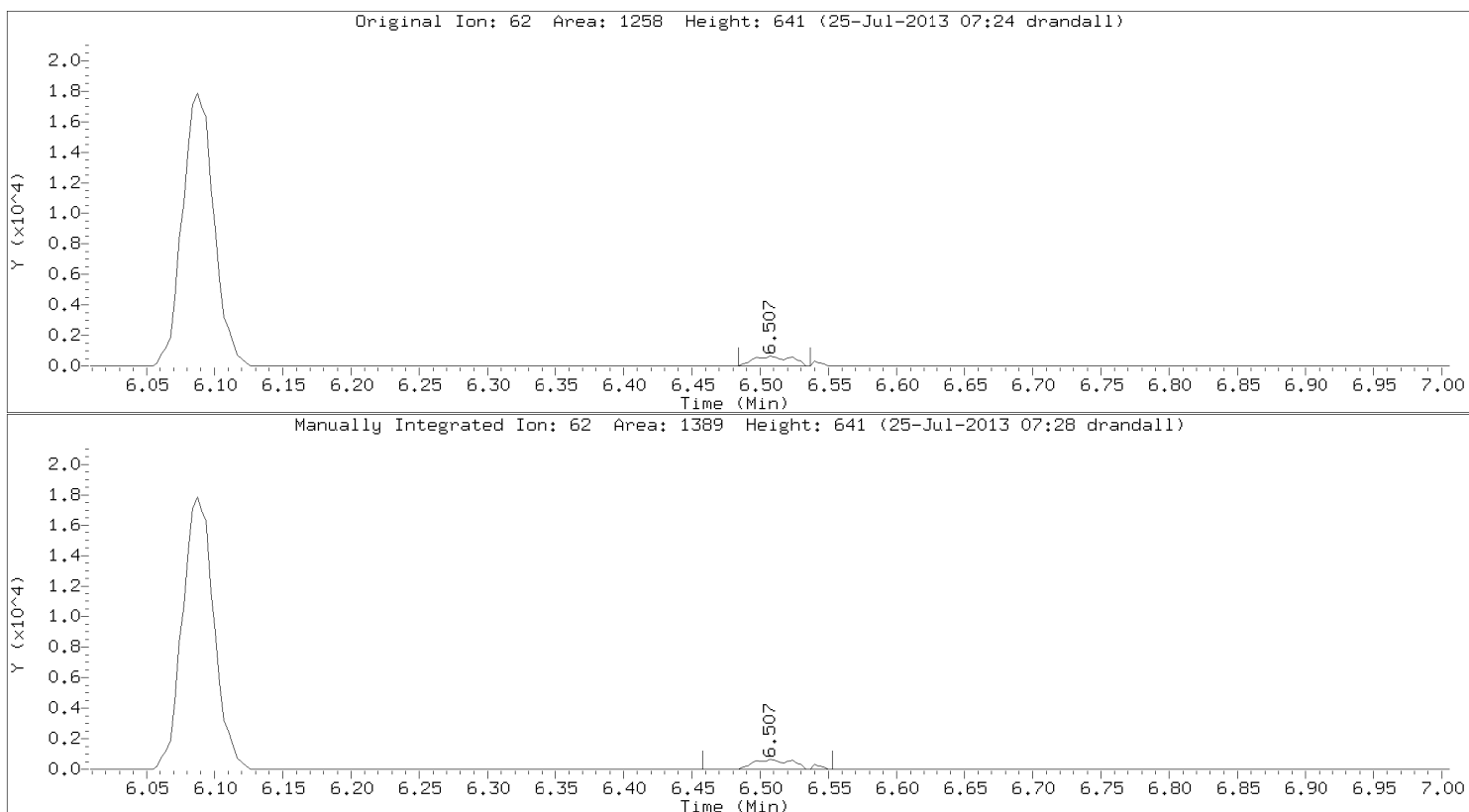


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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

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

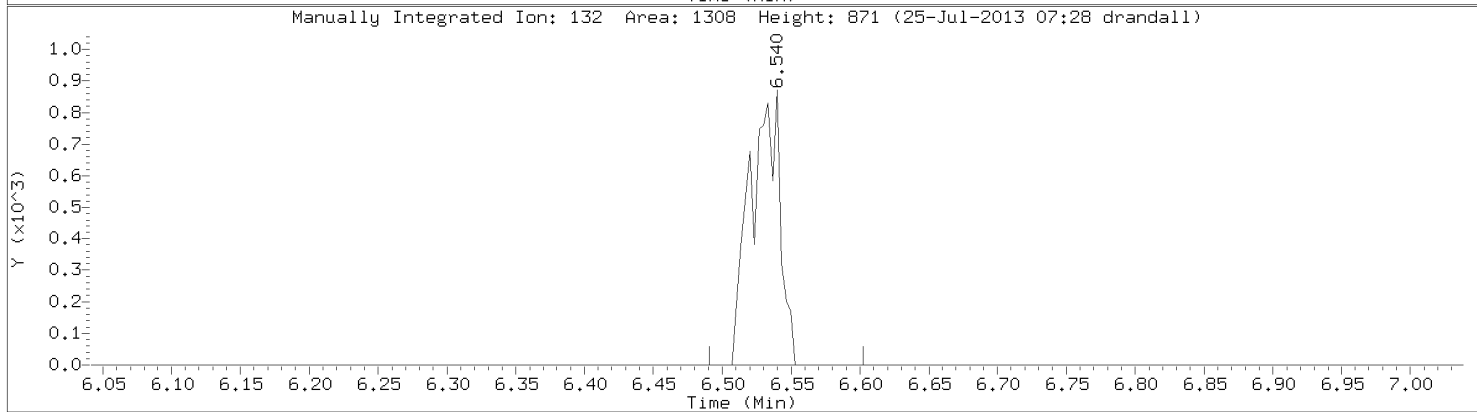
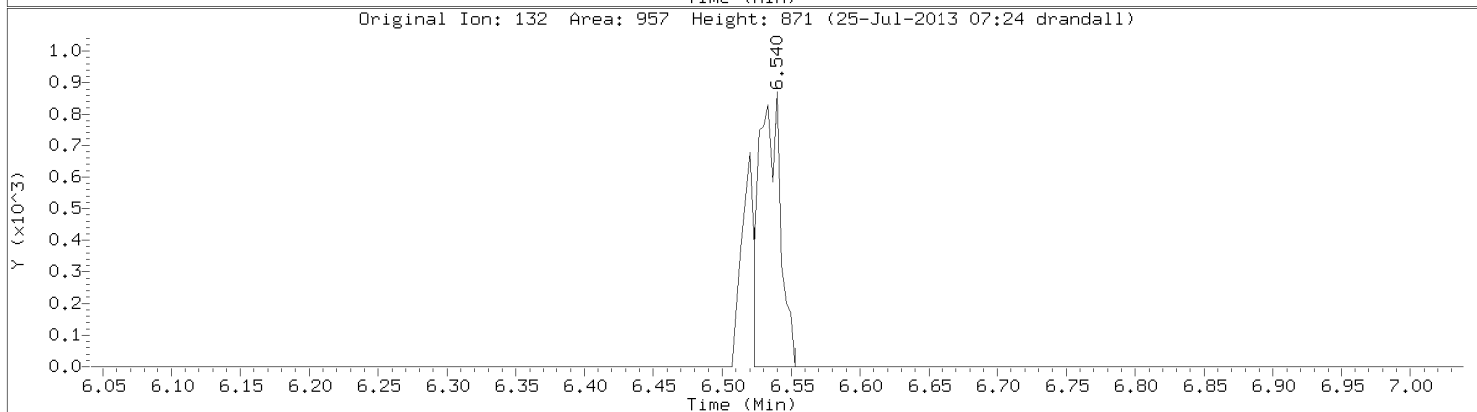
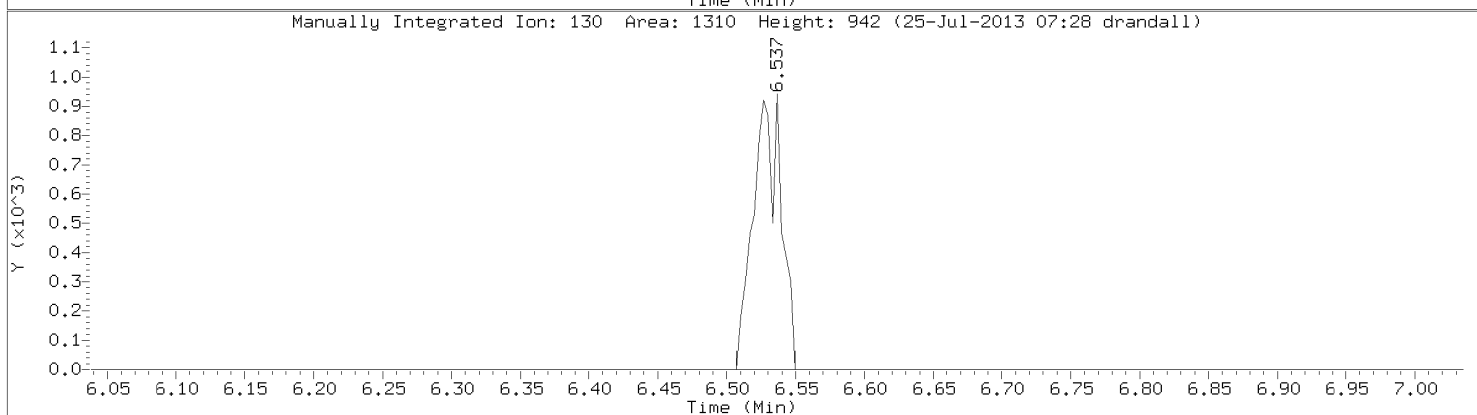
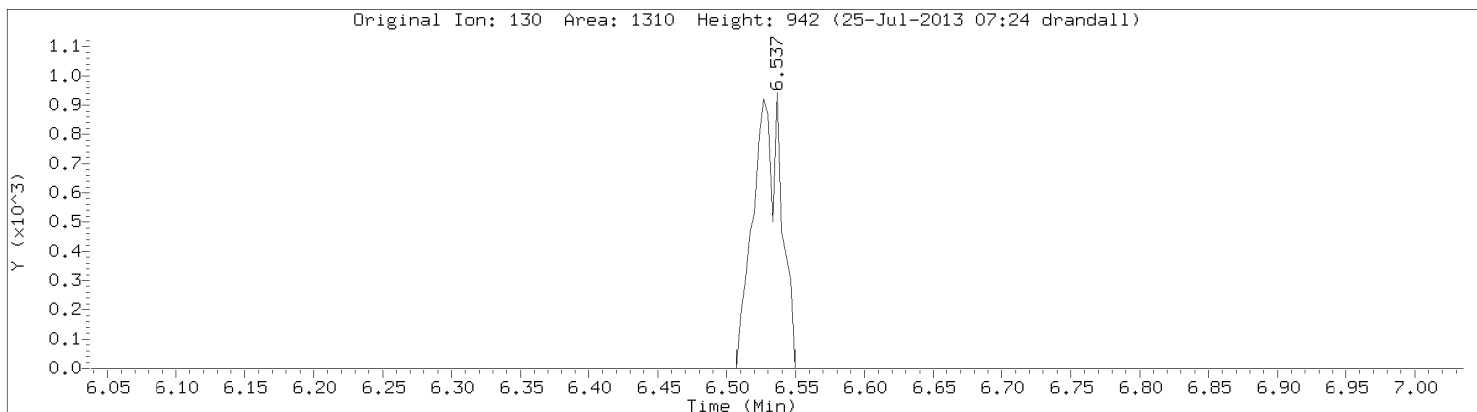


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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

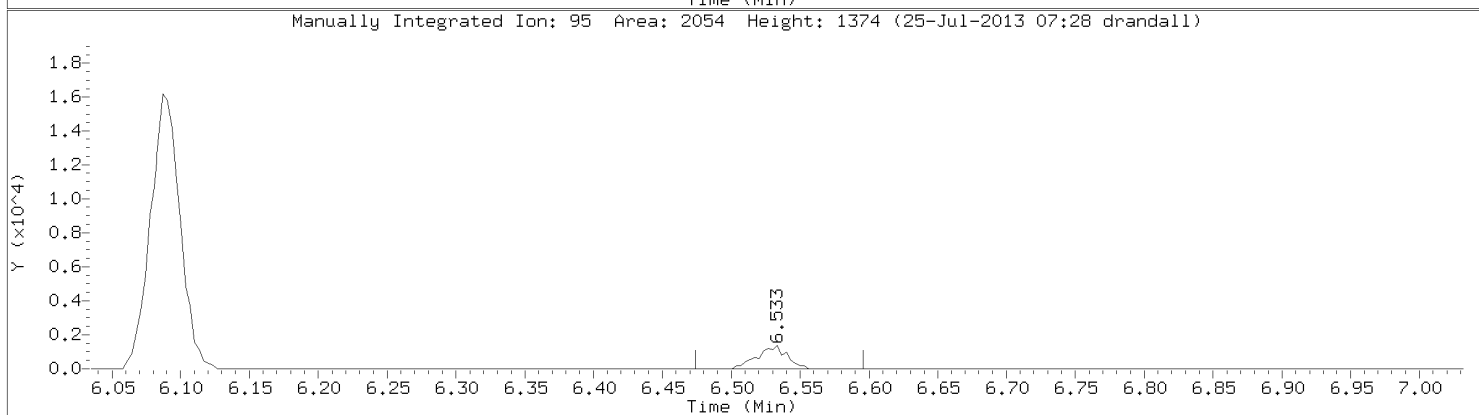
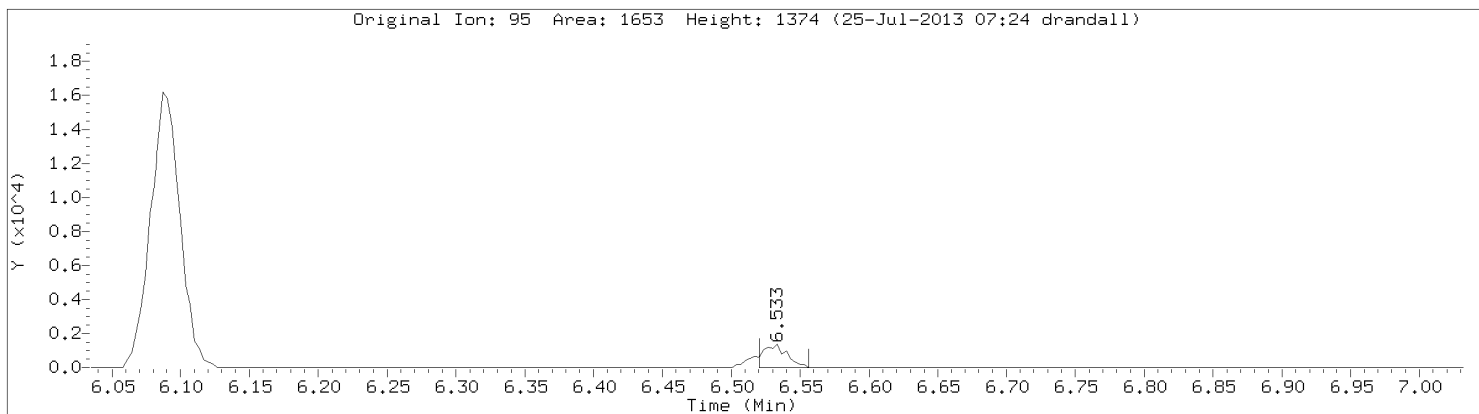


Data File: \\192.168.10.12\chem\10airD.i\072413.b\20504.d
Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Trichloroethene
CAS Number: 79-01-6

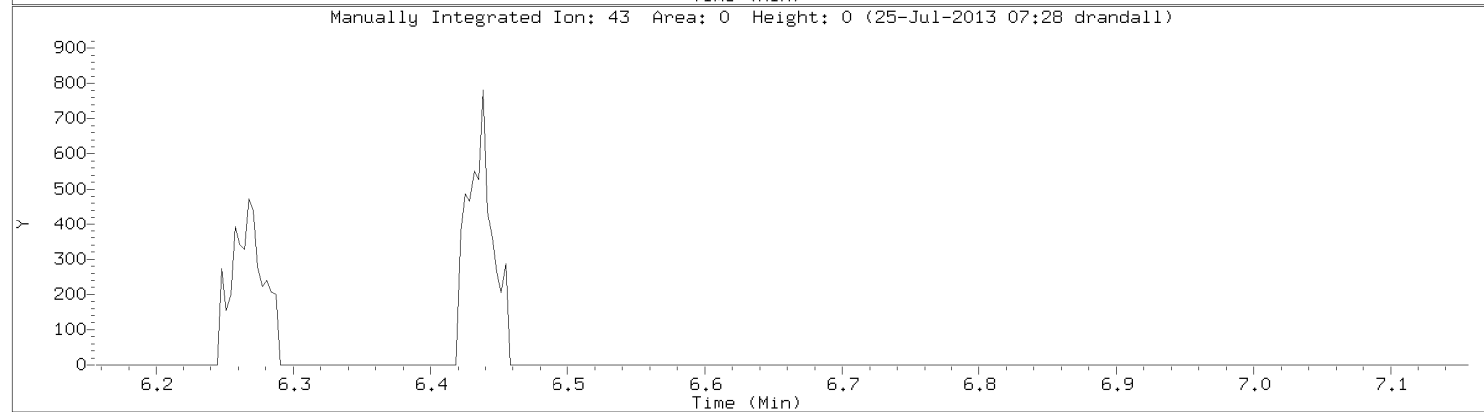
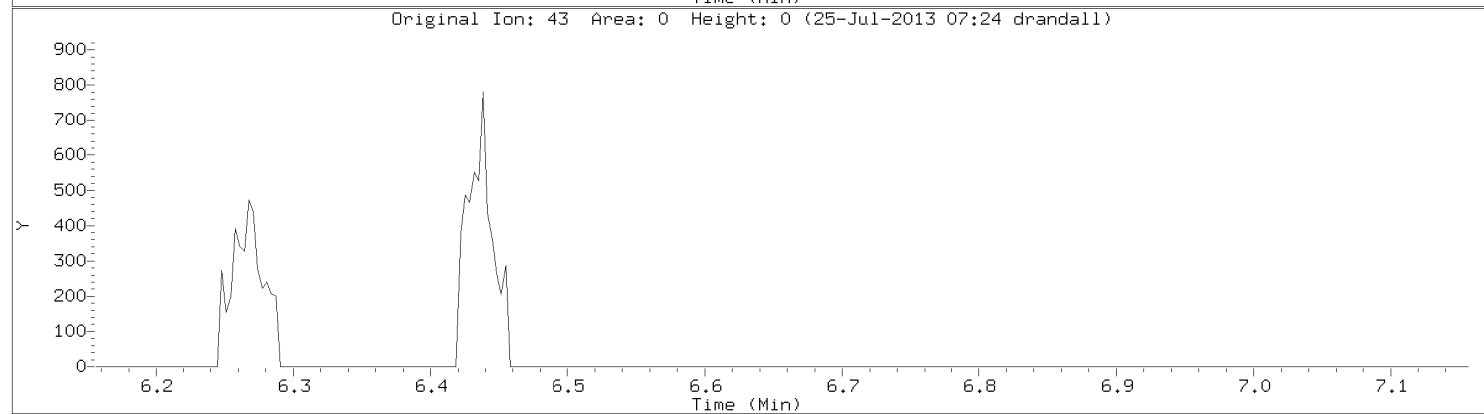
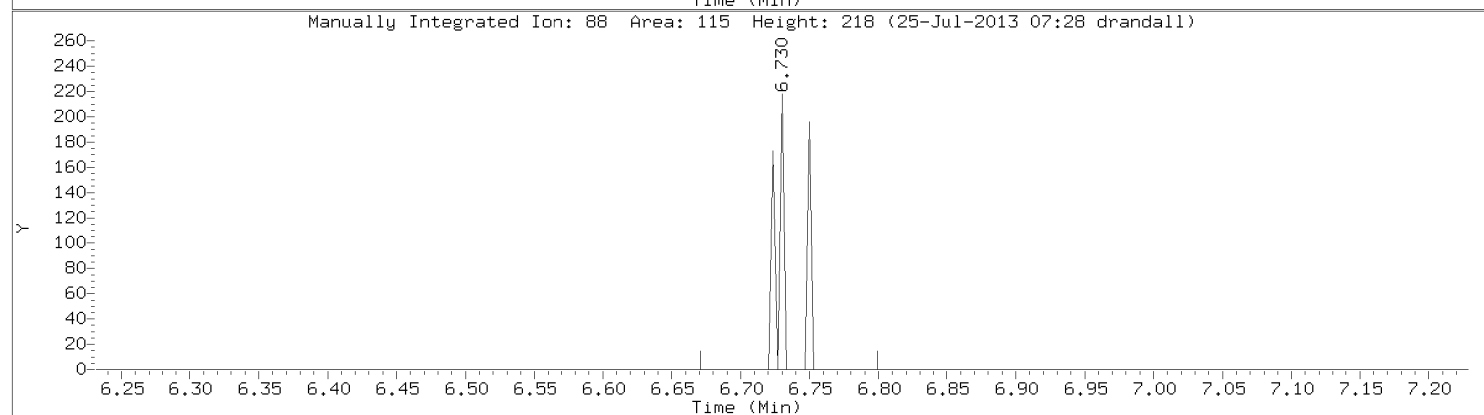
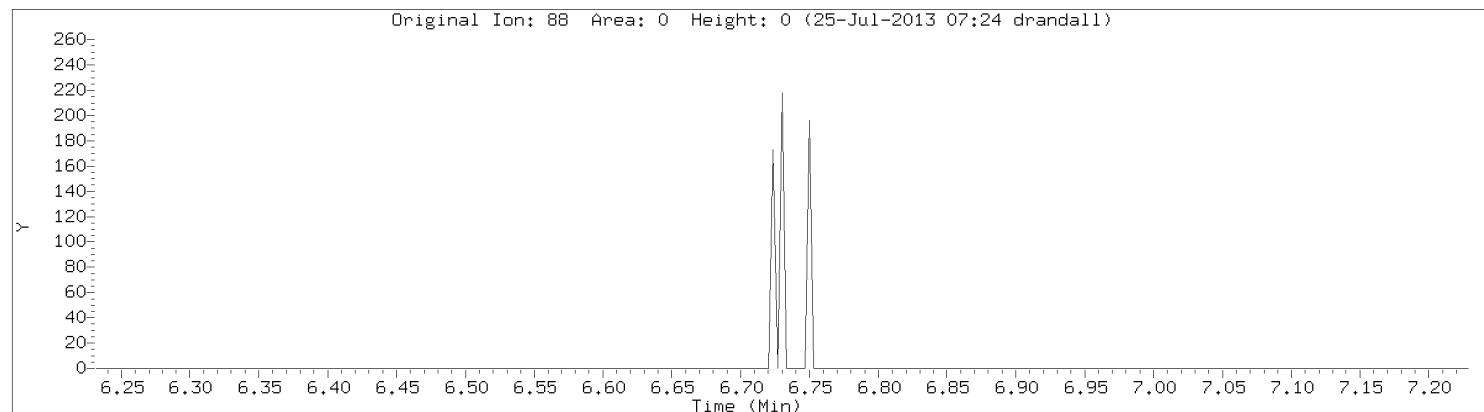


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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1



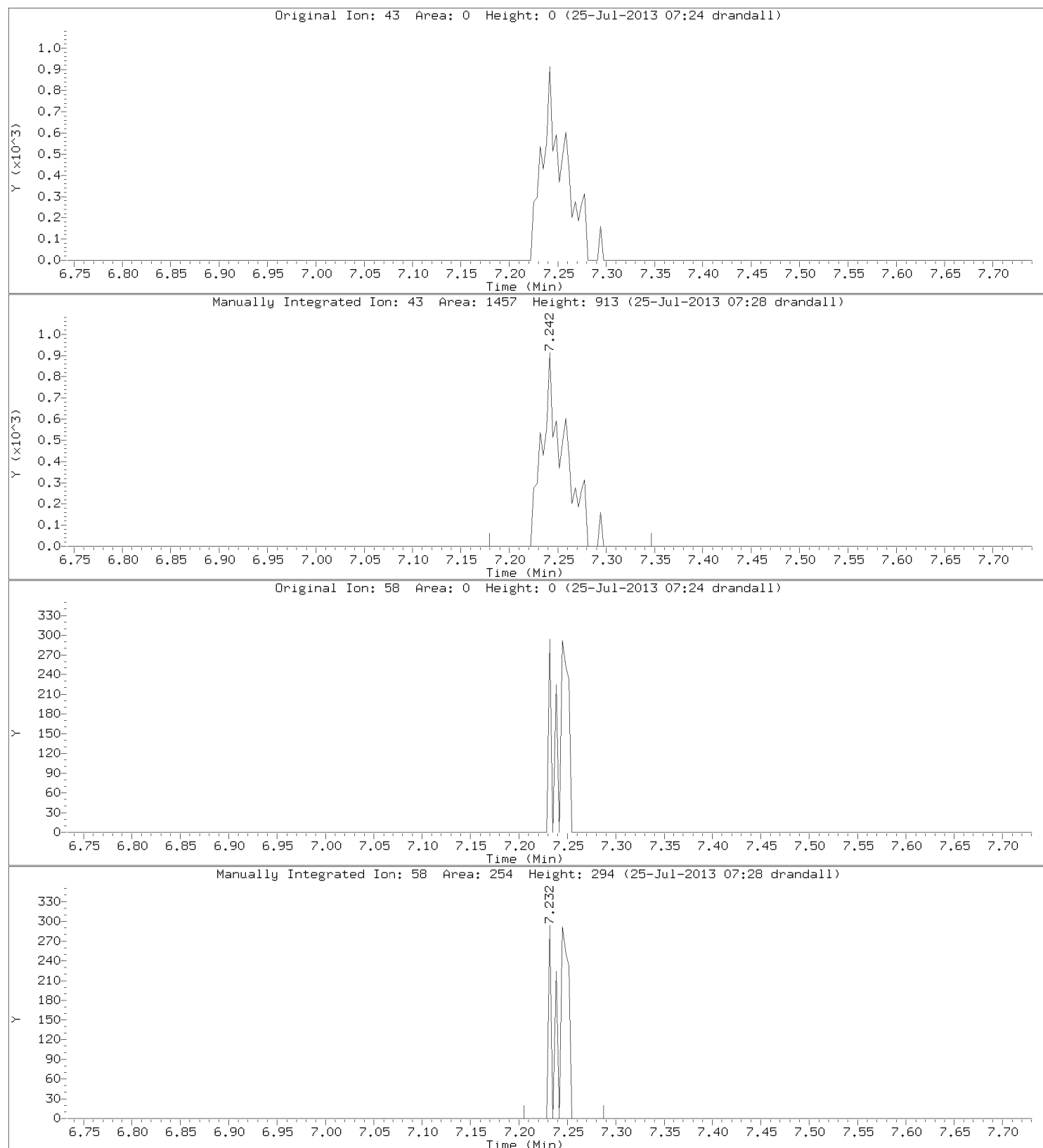
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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

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

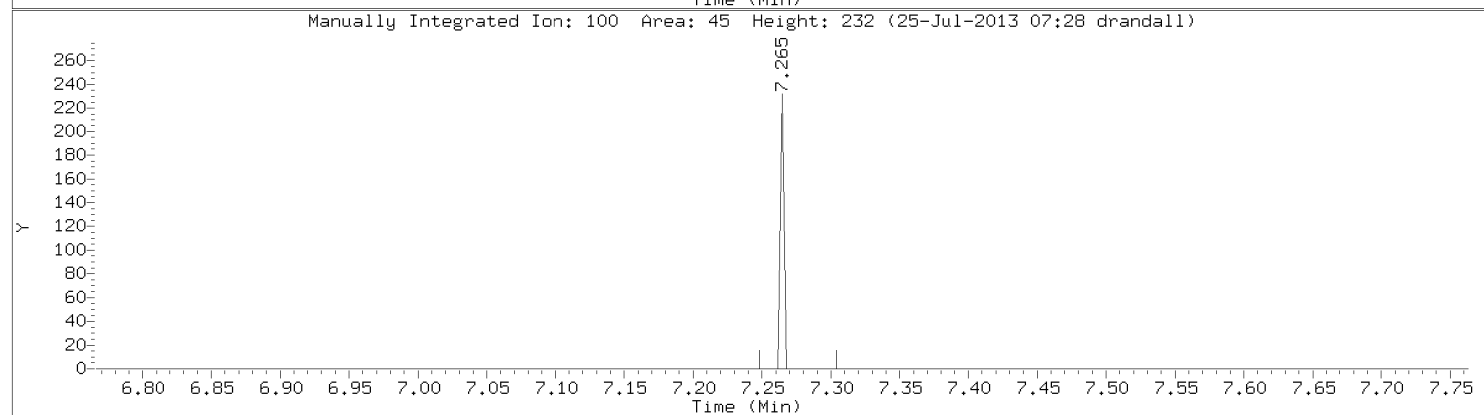
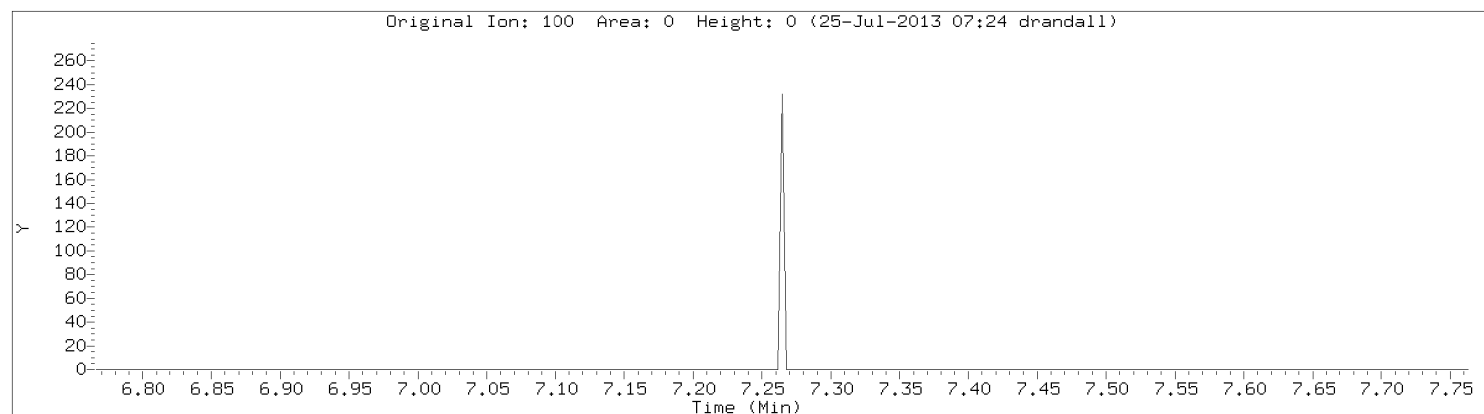


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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

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

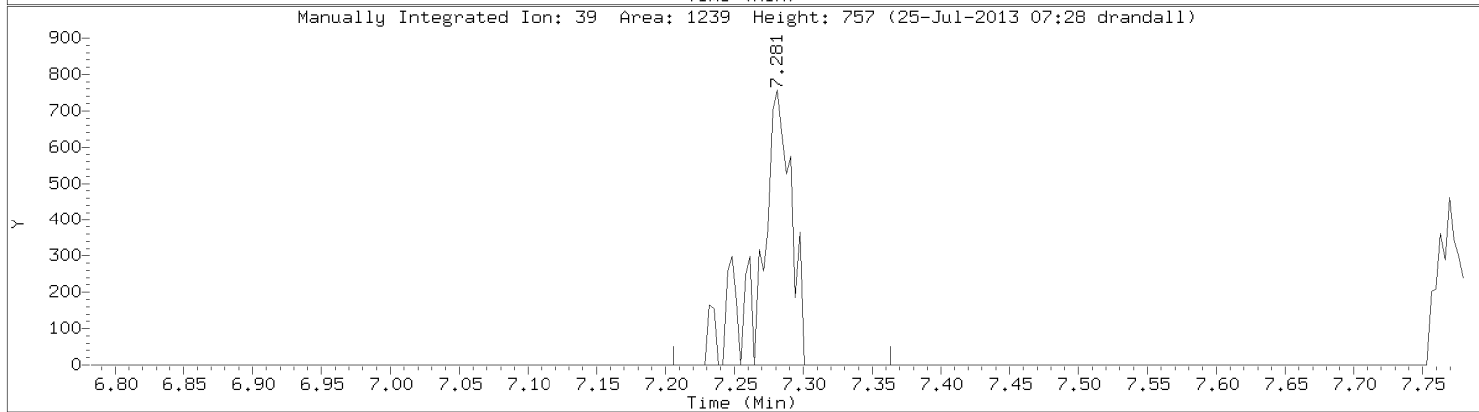
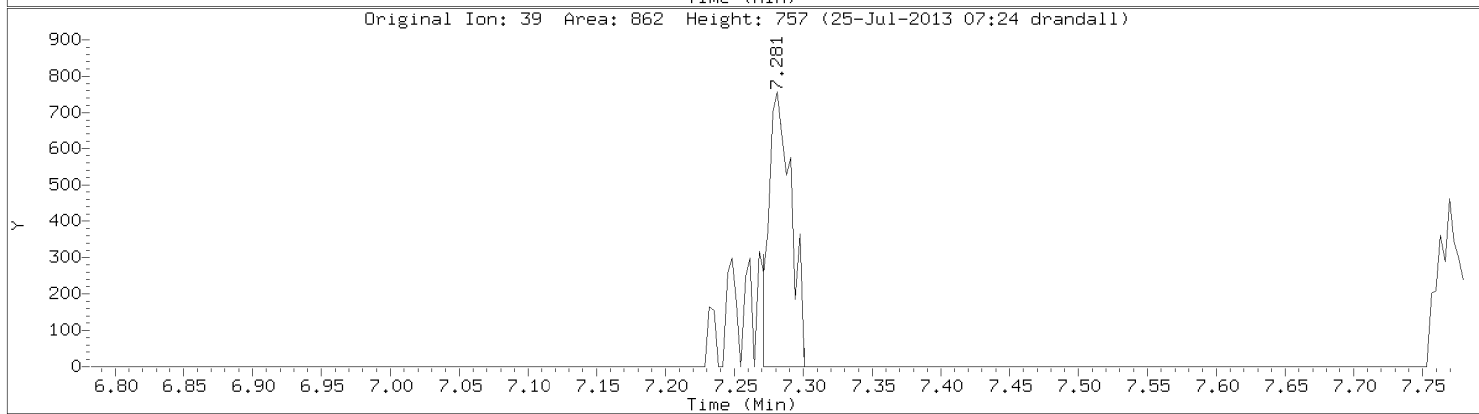
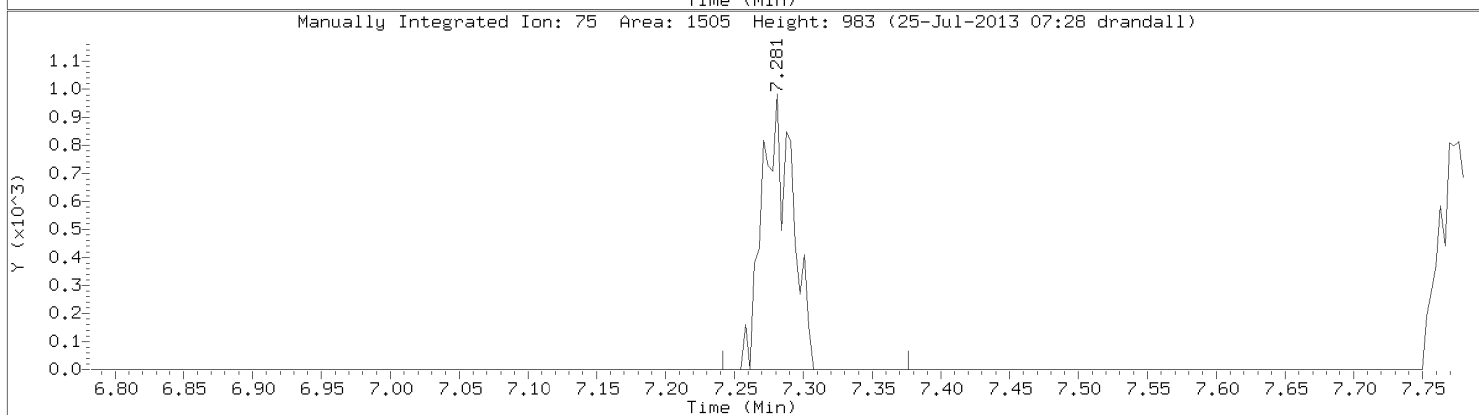
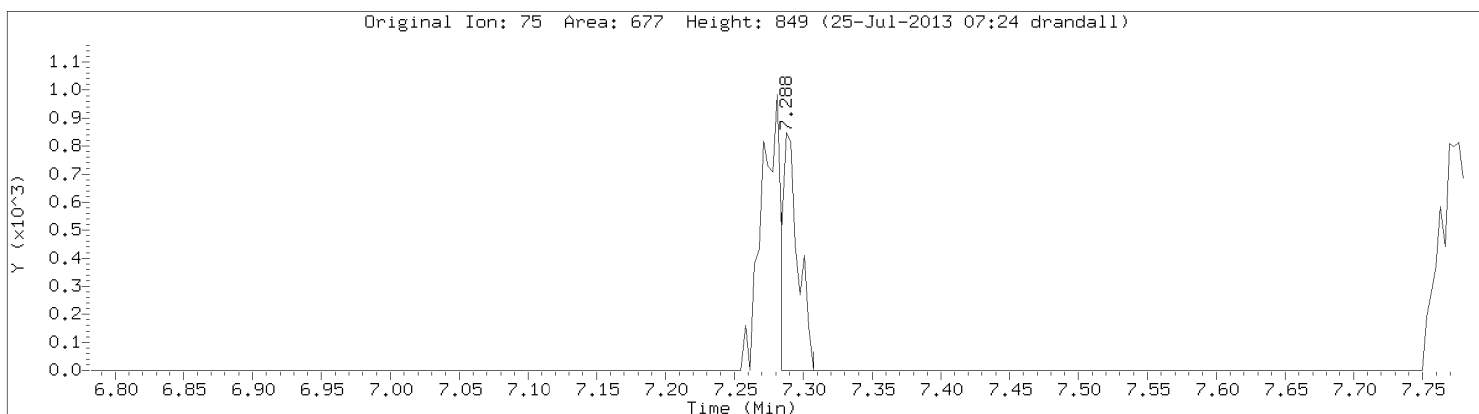


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Instrument: 10airD.i
Lab Sample ID: CAL1

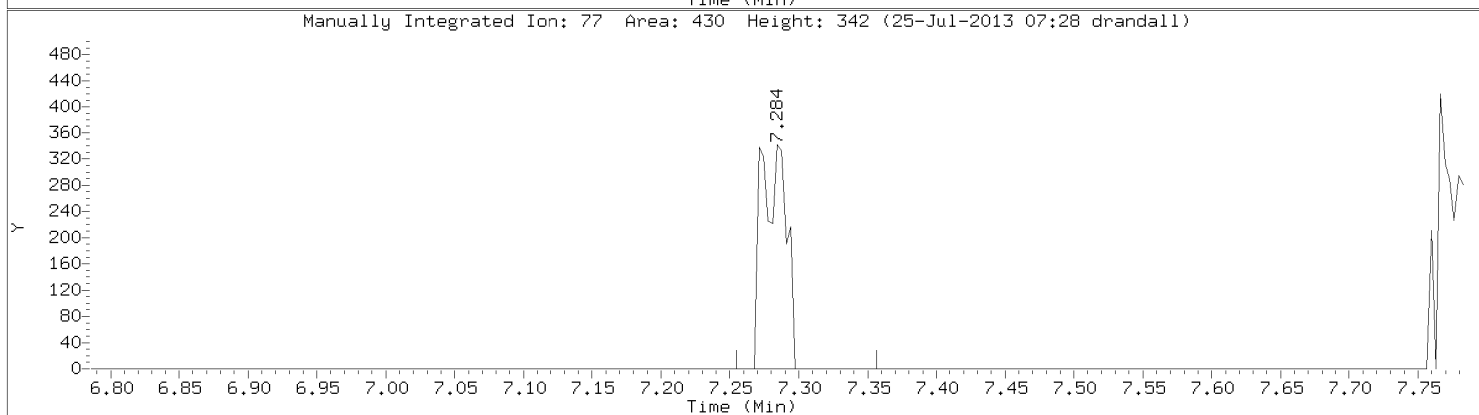
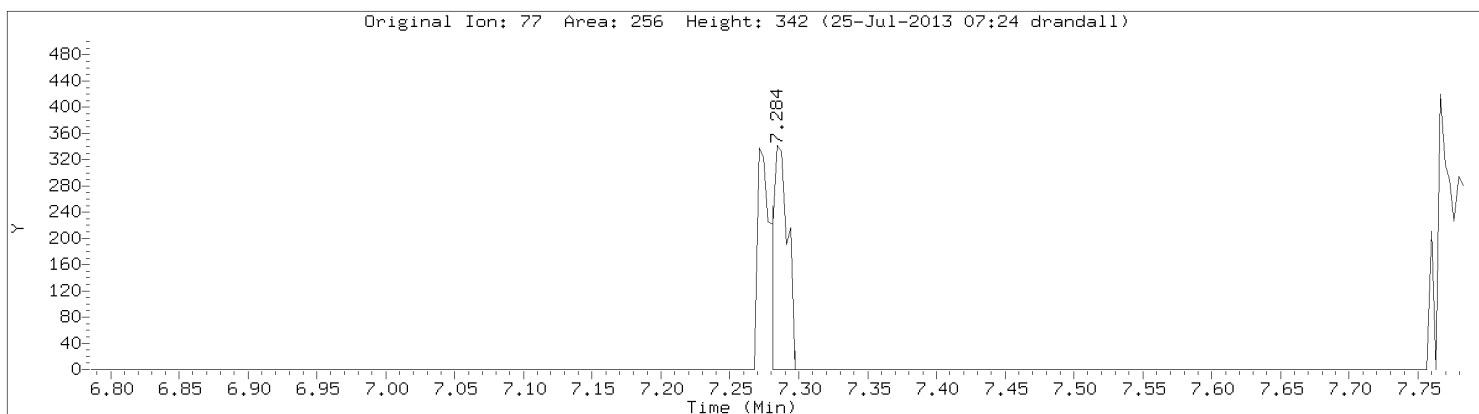


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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

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

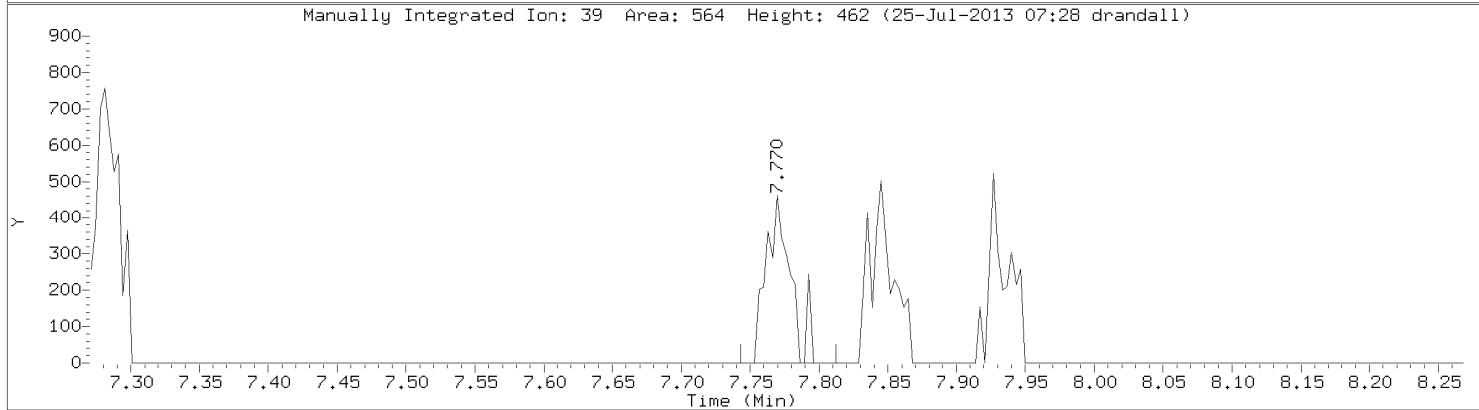
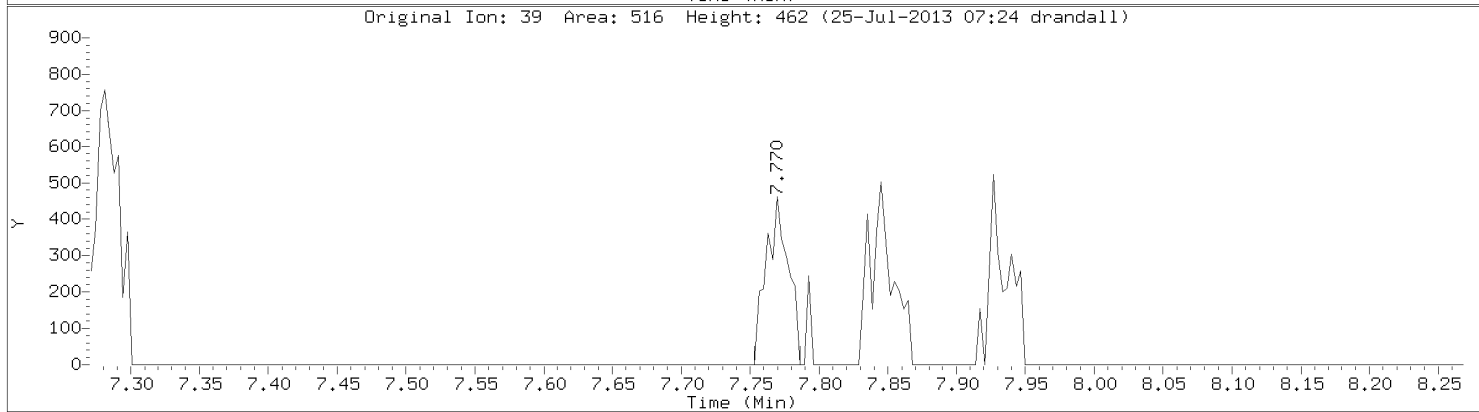
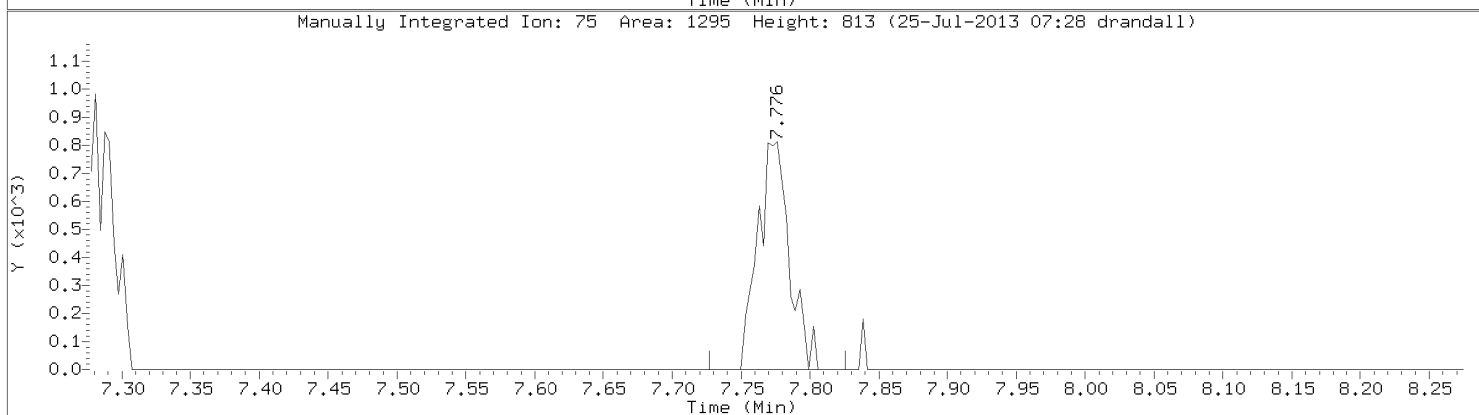
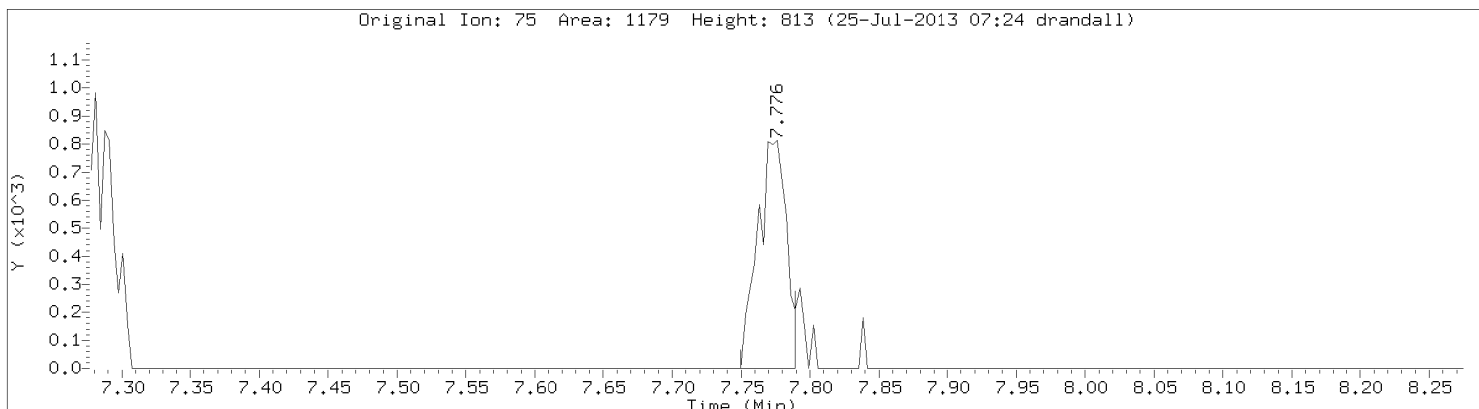


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Lab Sample ID: CAL1

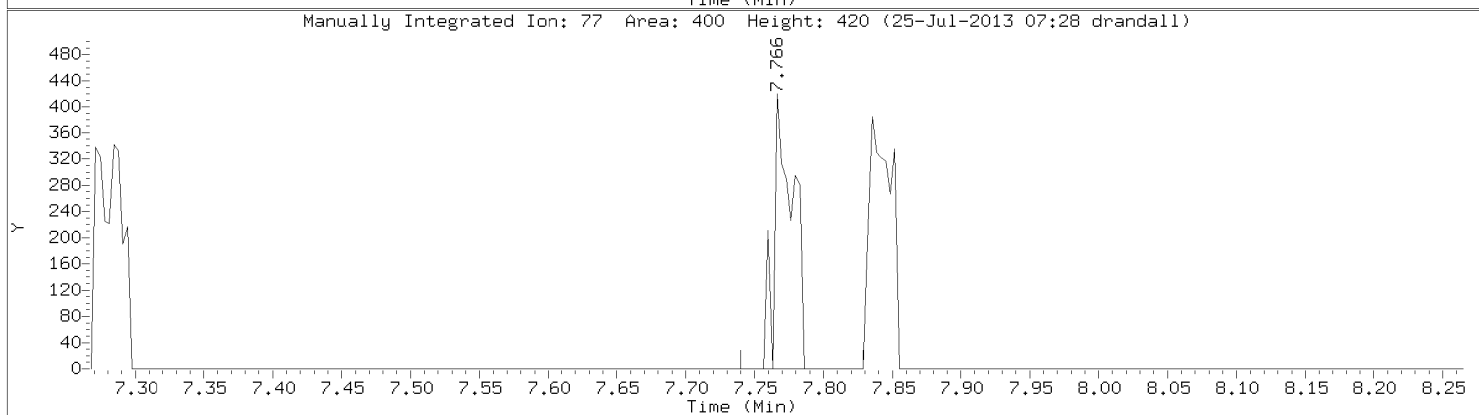
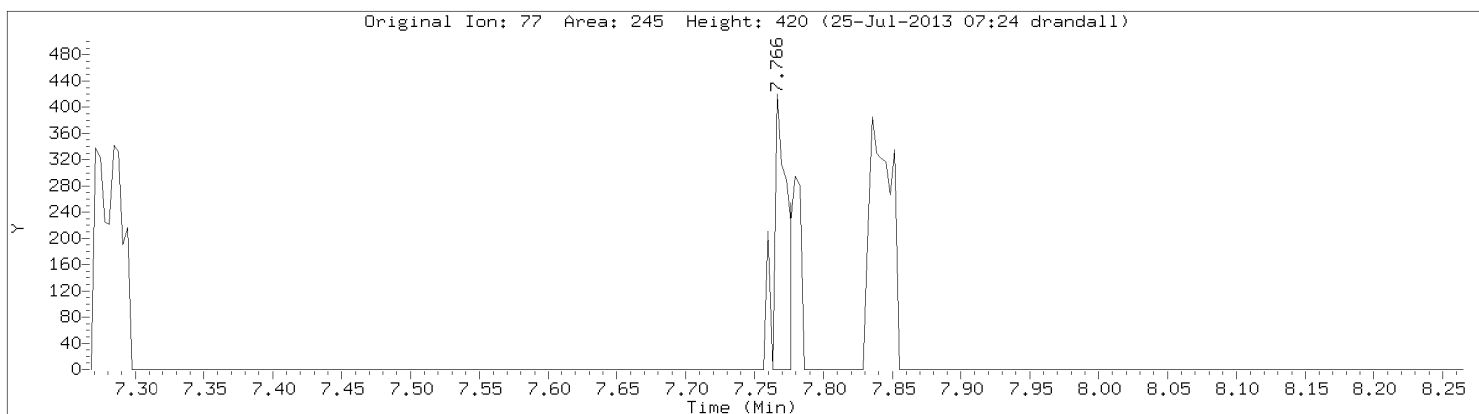


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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

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

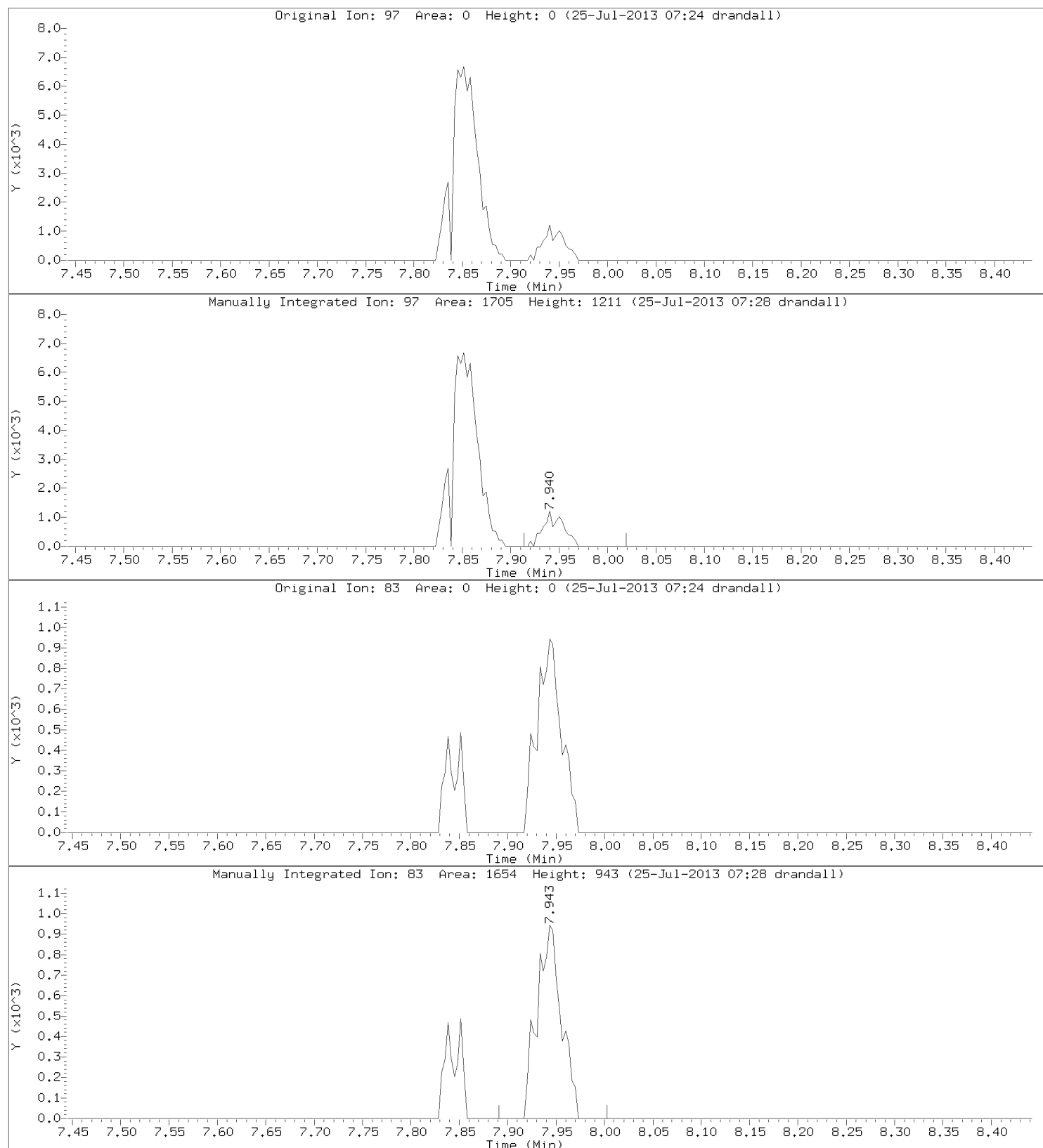


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Instrument: 10airD.i
Lab Sample ID: CAL1



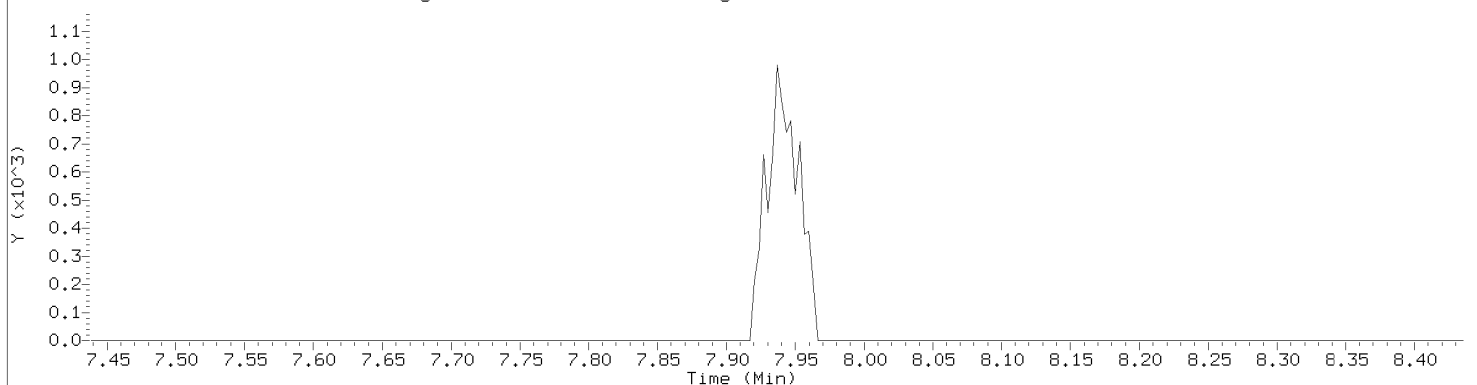
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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

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

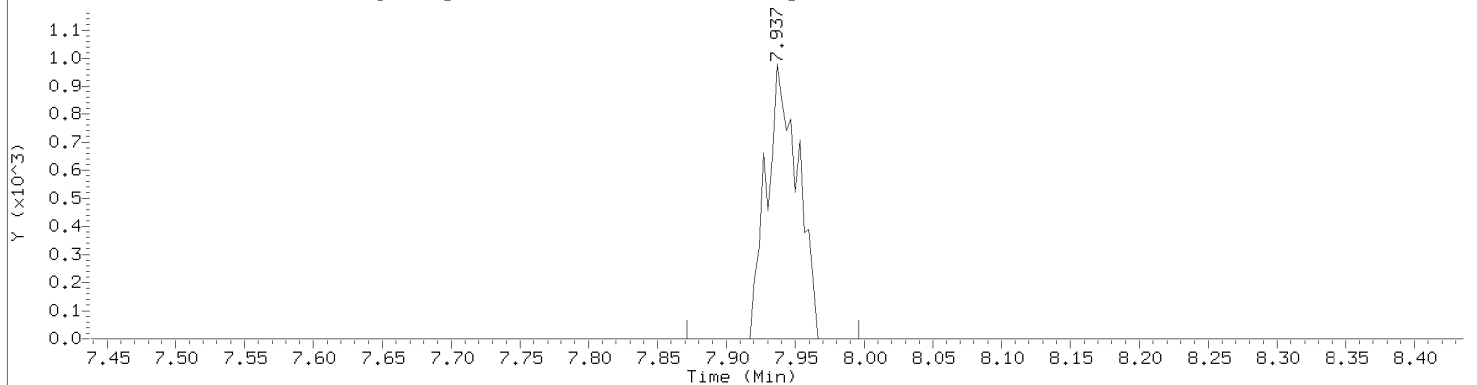


Data File: \\192.168.10.12\chem\10airD.i\072413.b\20504.d
Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

Original Ion: 61 Area: 0 Height: 0 (25-Jul-2013 07:24 drandall)

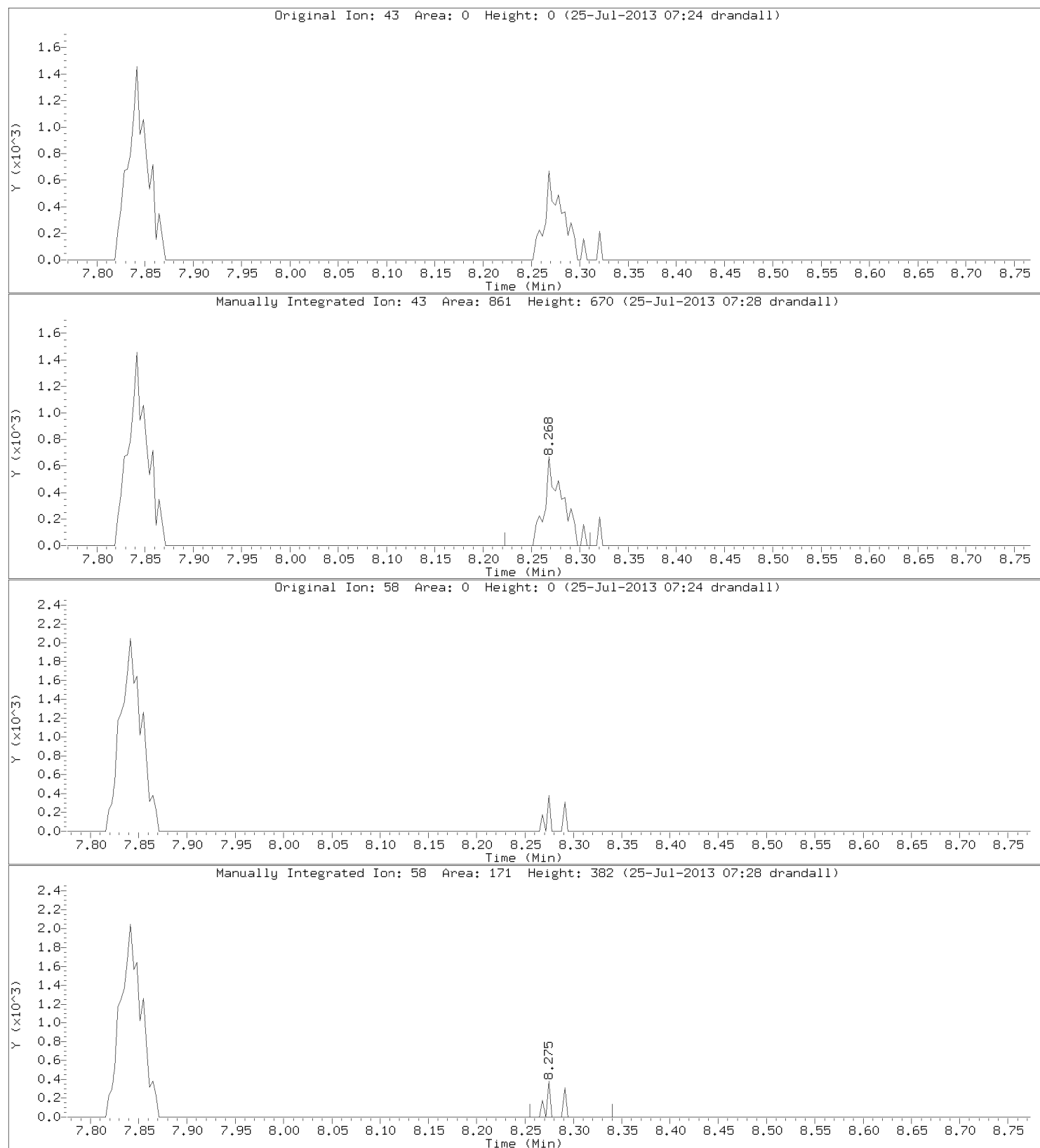


Manually Integrated Ion: 61 Area: 1547 Height: 980 (25-Jul-2013 07:28 drandall)



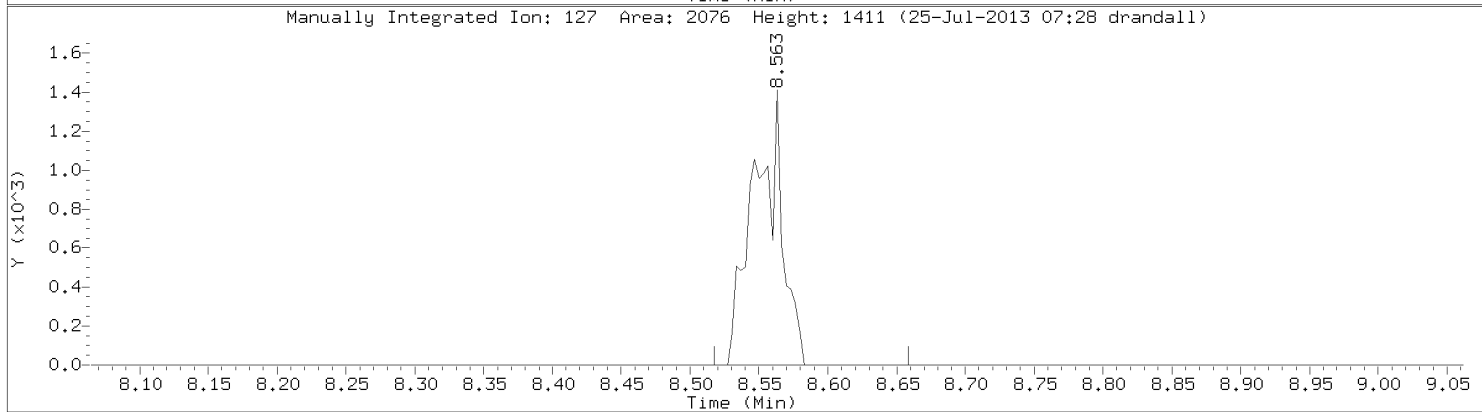
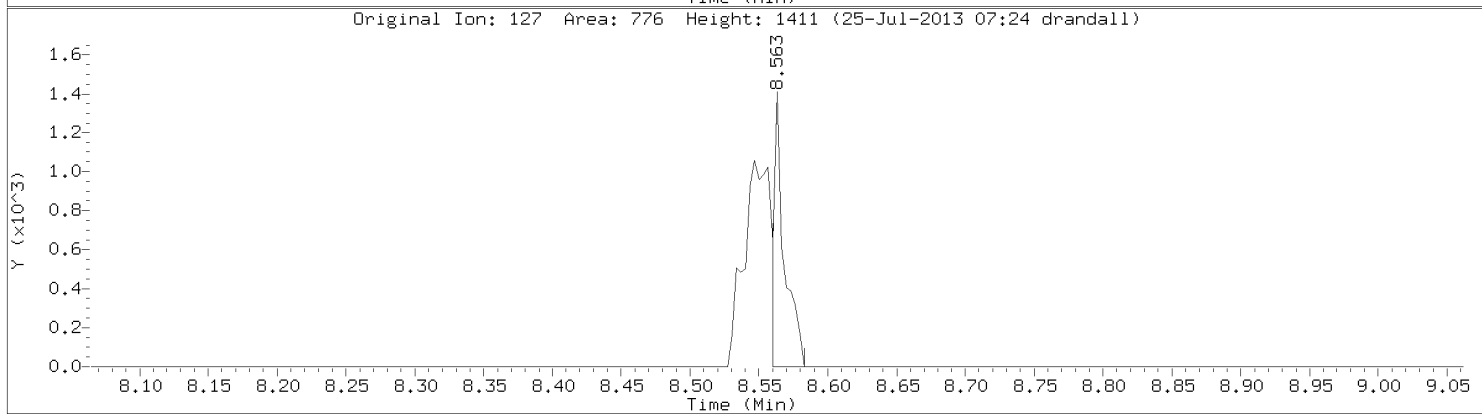
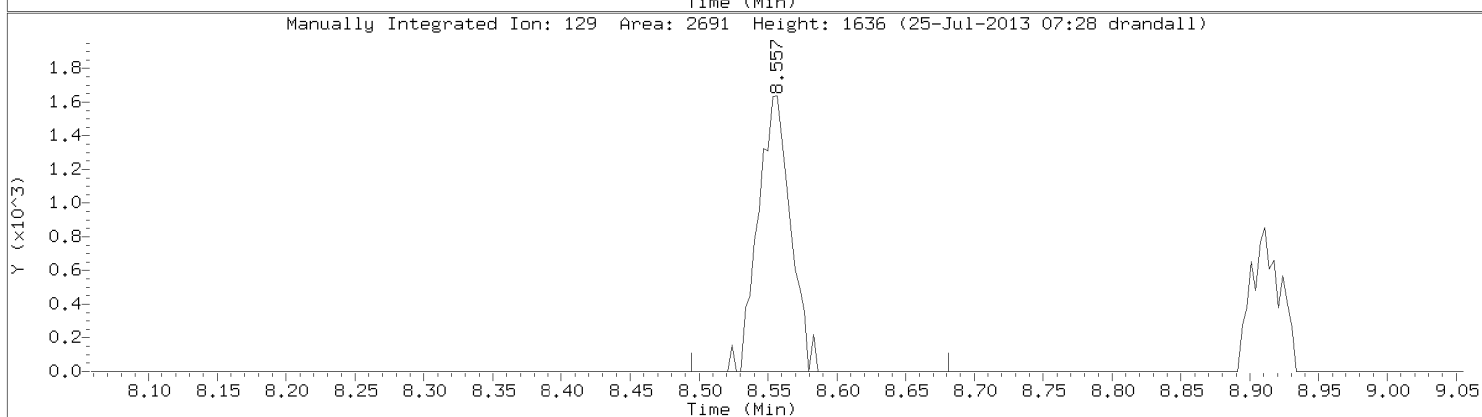
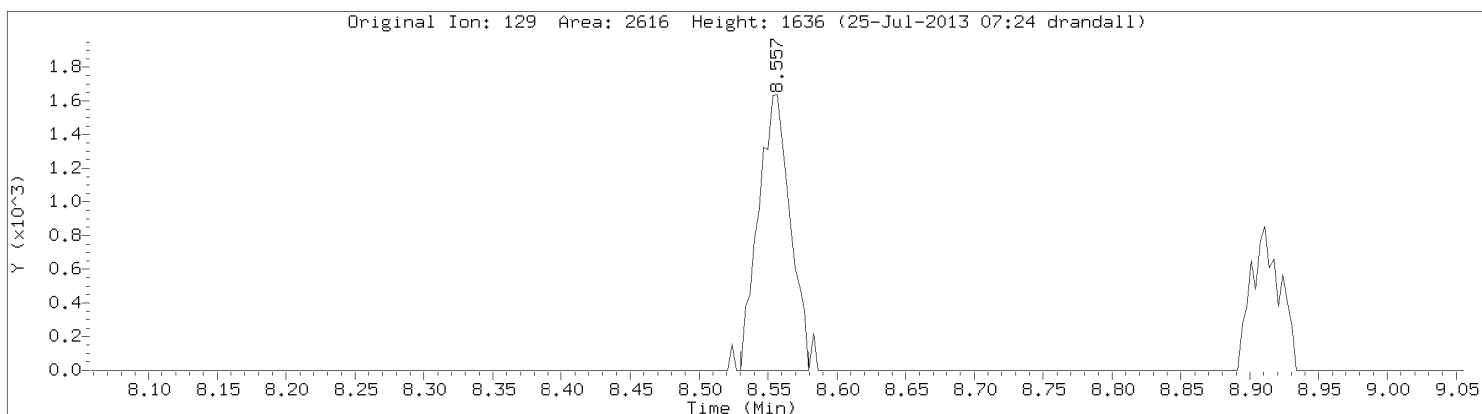
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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

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



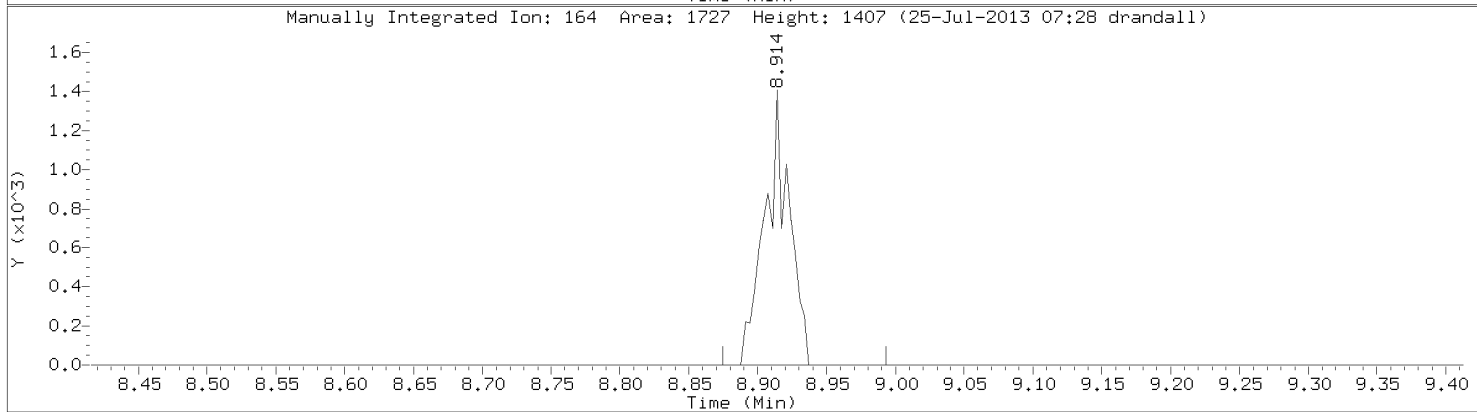
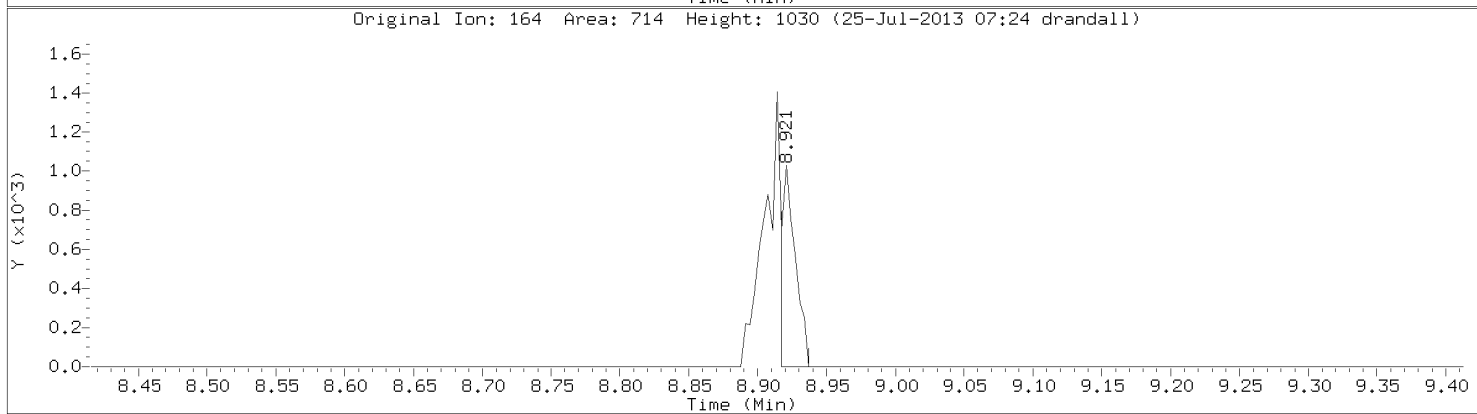
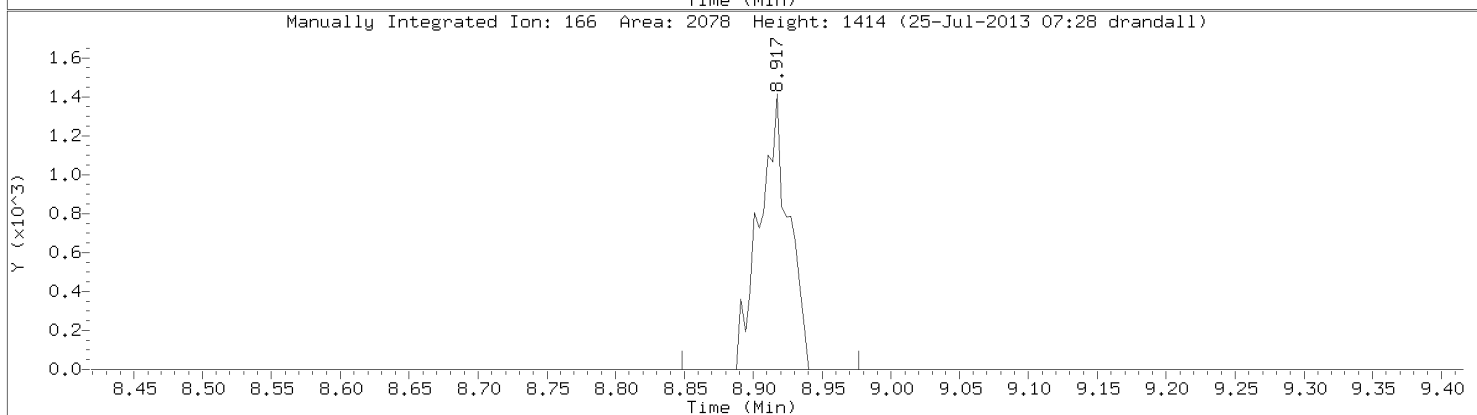
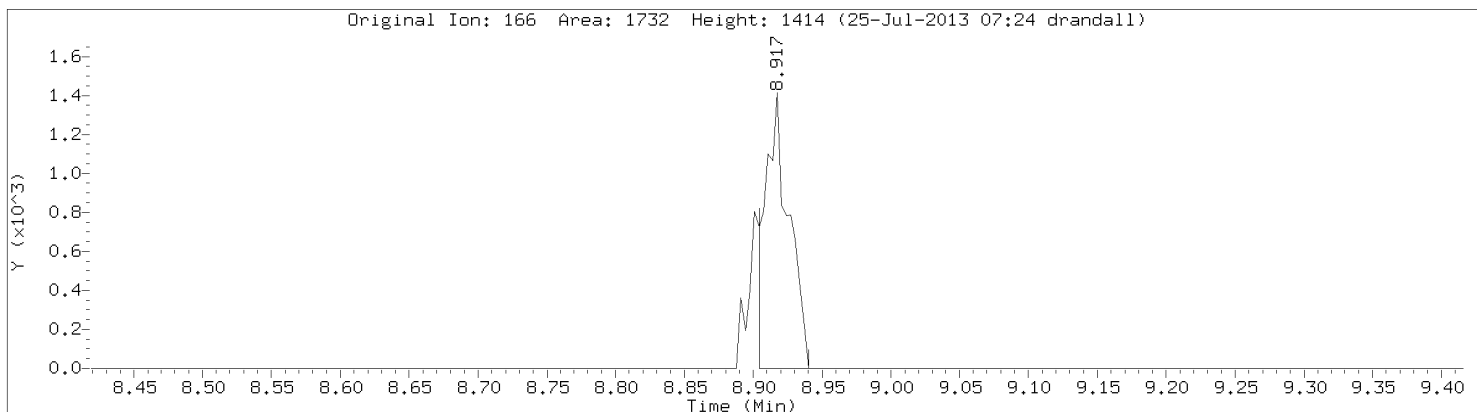
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Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Dibromochloromethane
CAS Number: 124-48-1

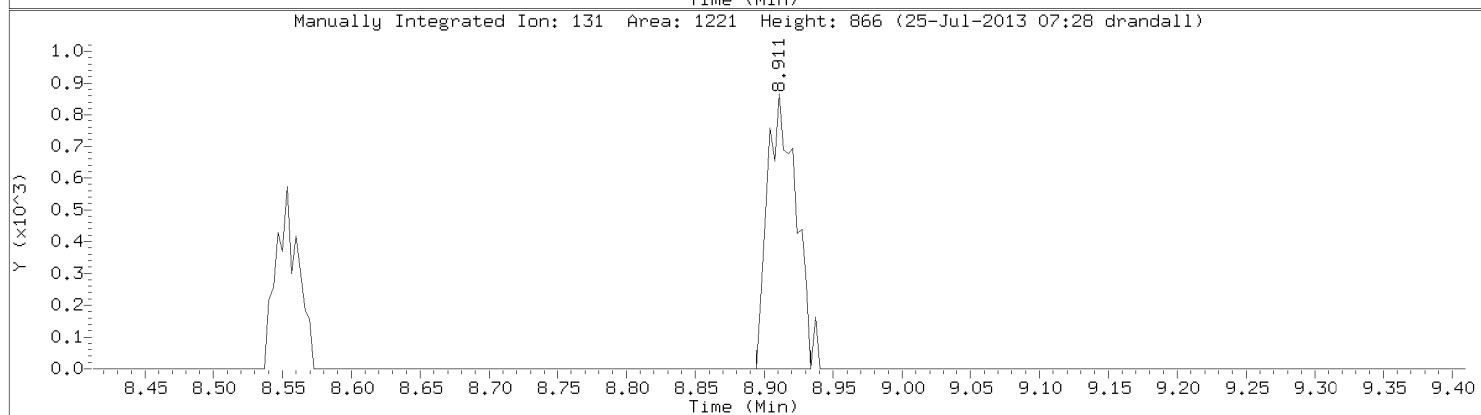
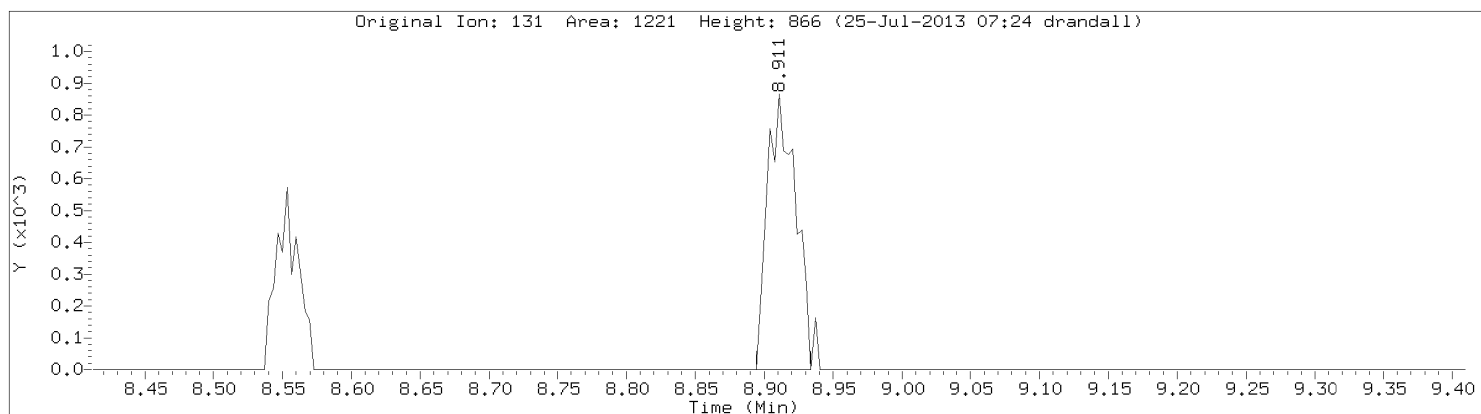


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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Tetrachloroethene
CAS Number: 127-18-4

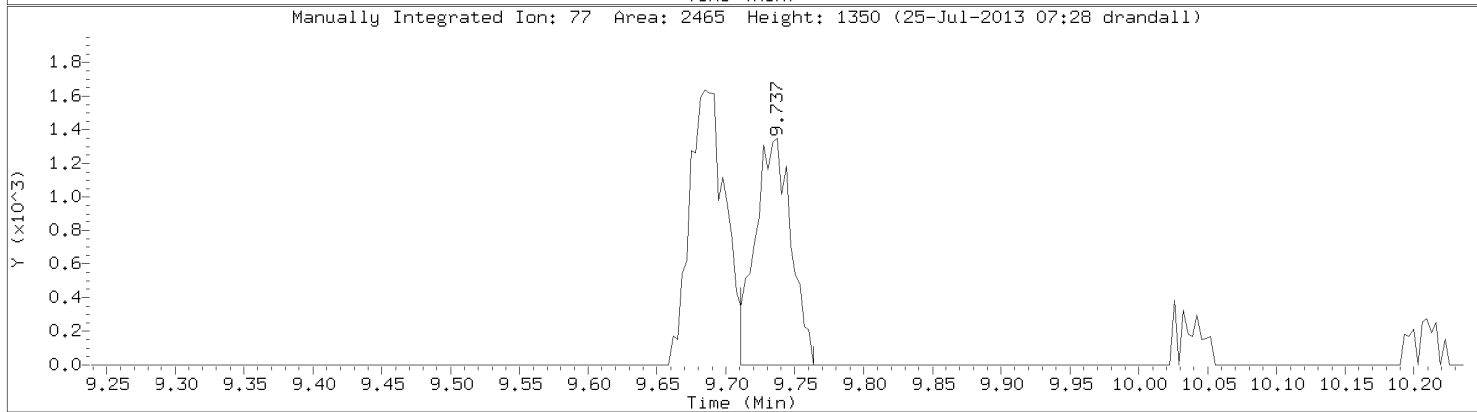
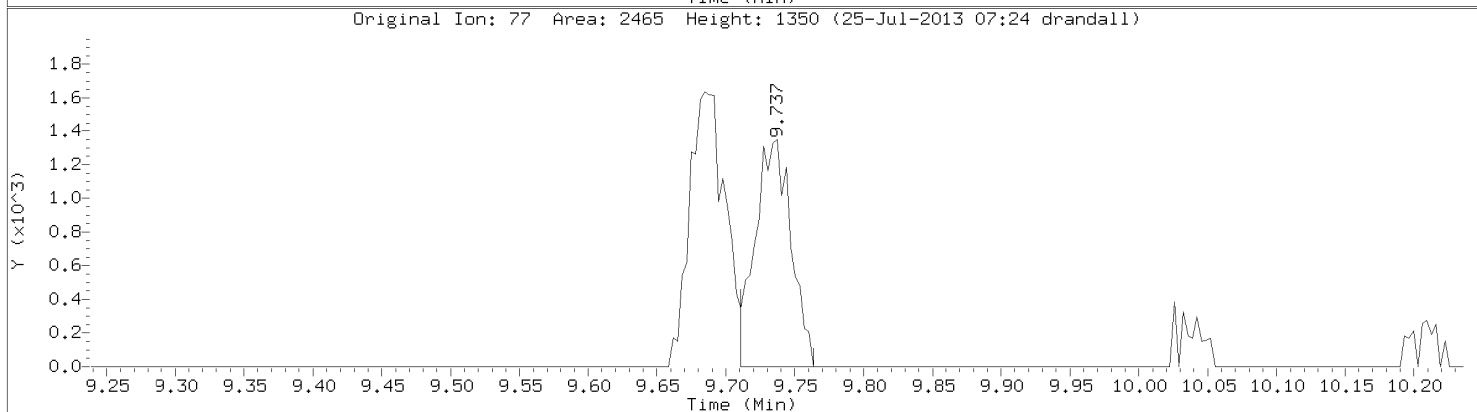
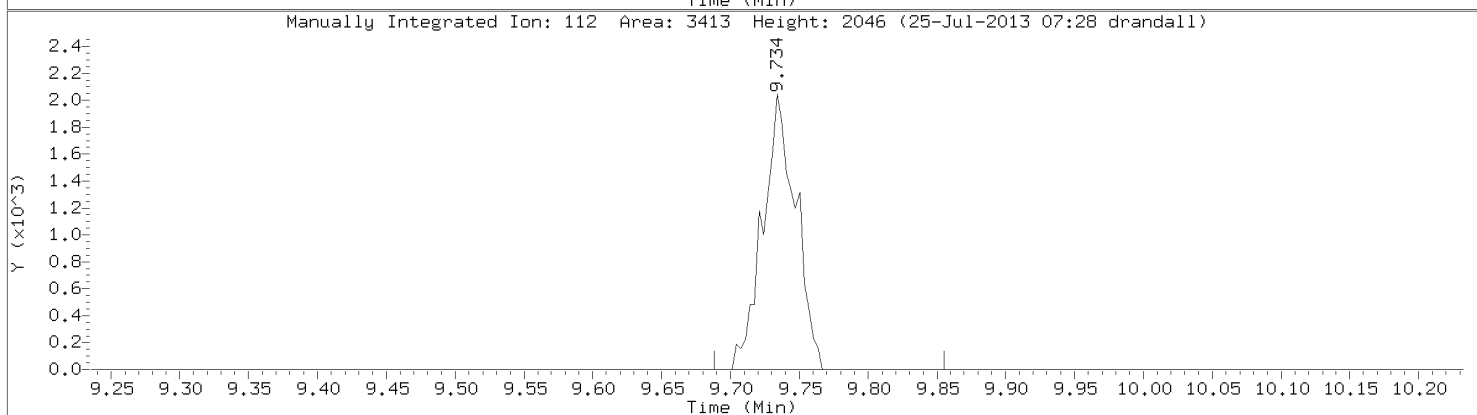
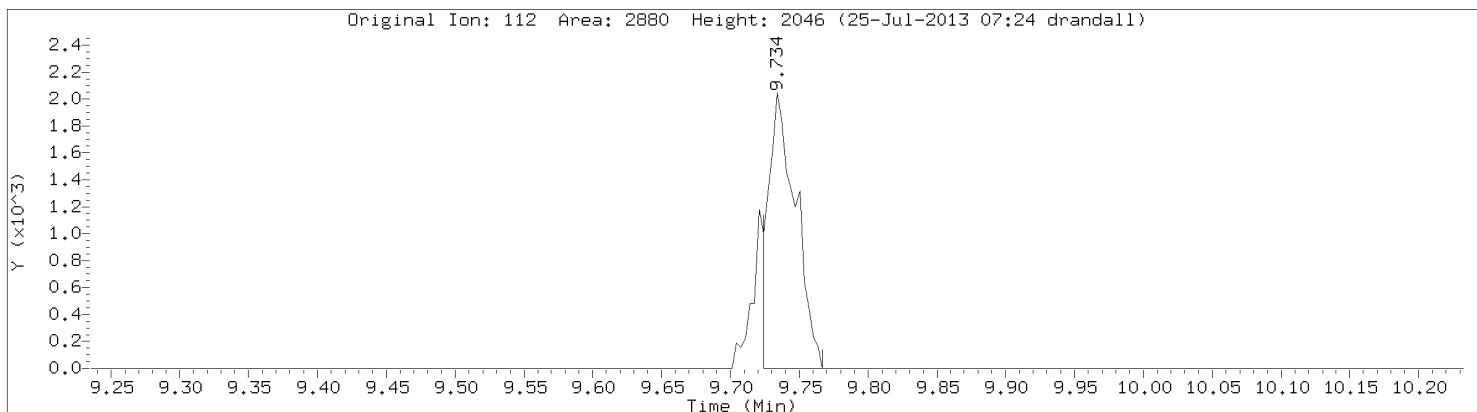


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Lab Sample ID: CAL1

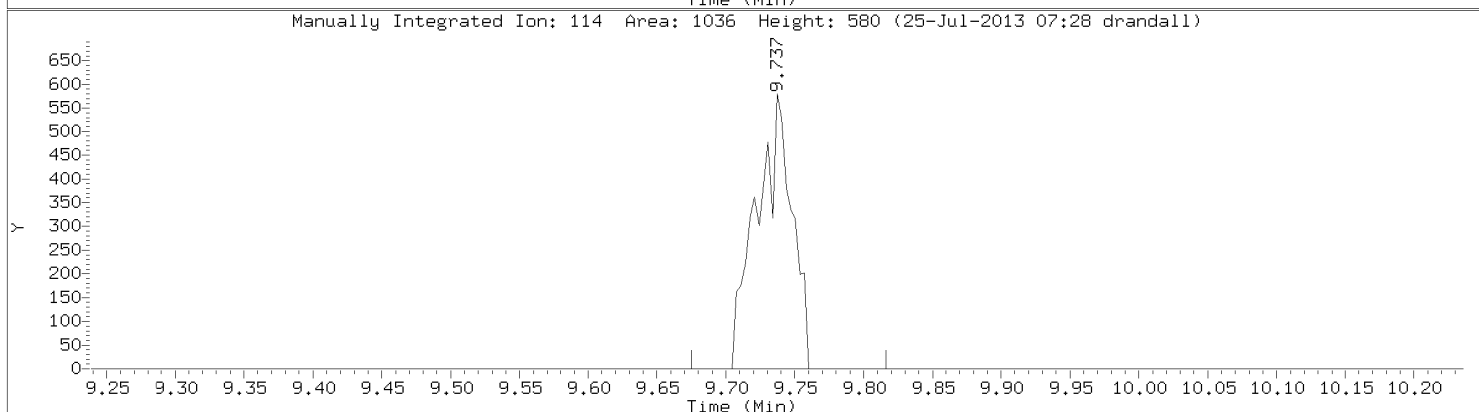
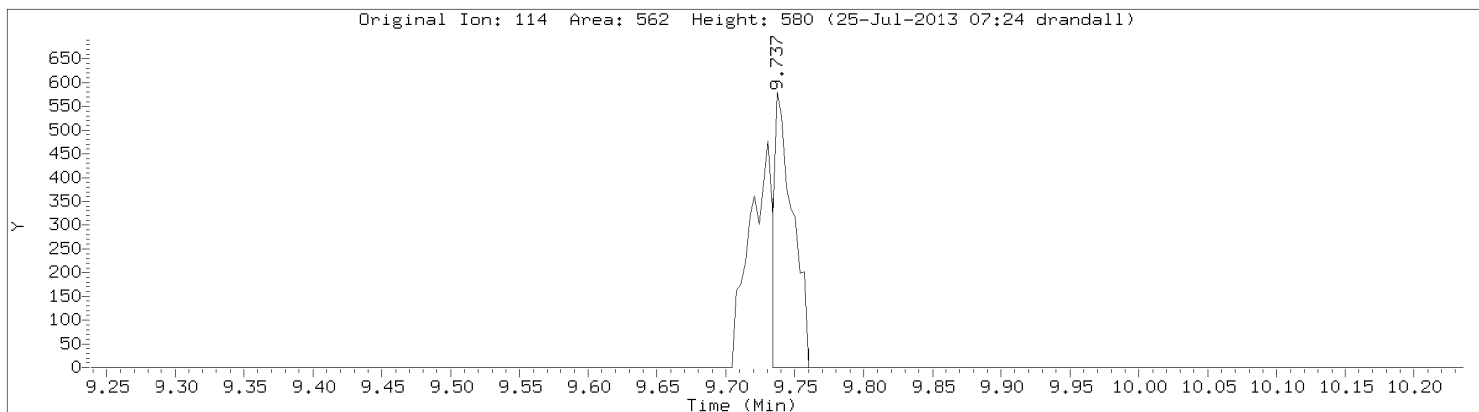


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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Chlorobenzene
CAS Number: 108-90-7

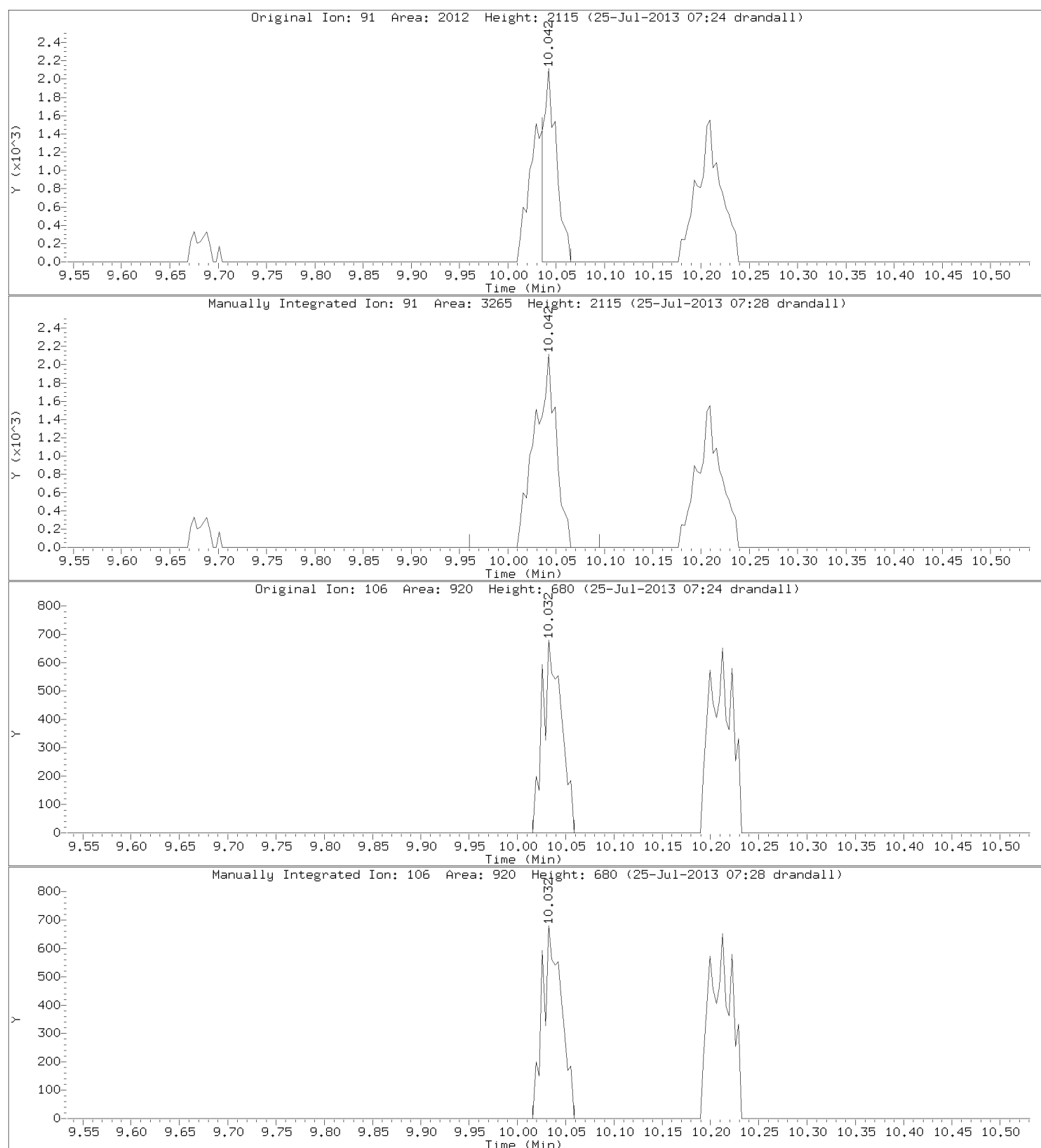


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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1



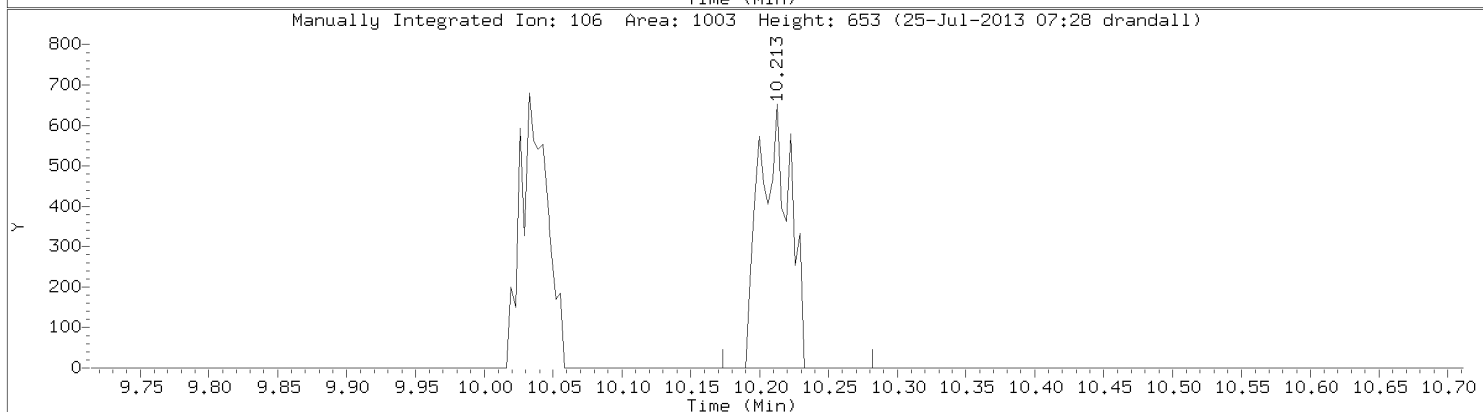
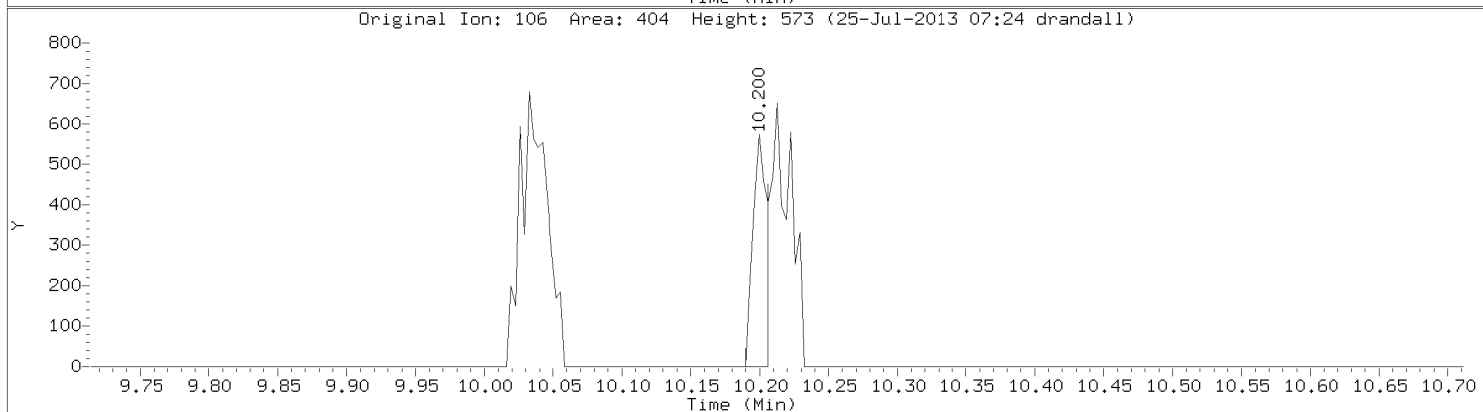
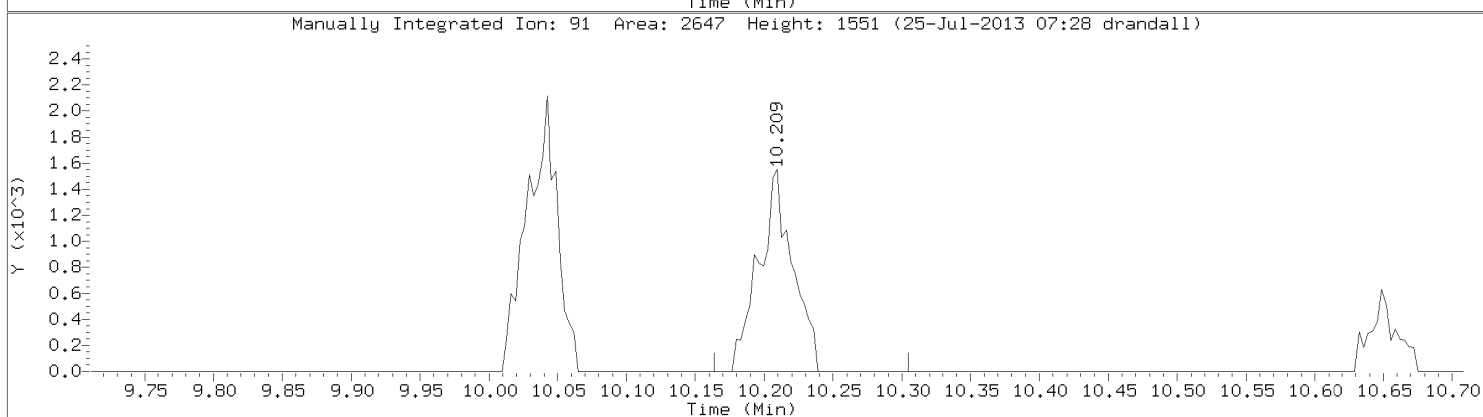
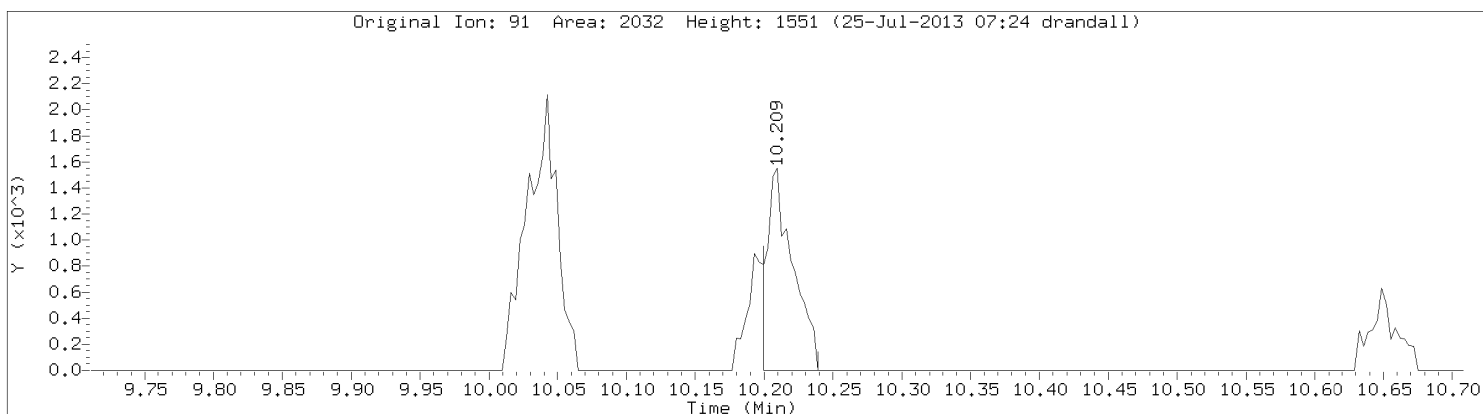
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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

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



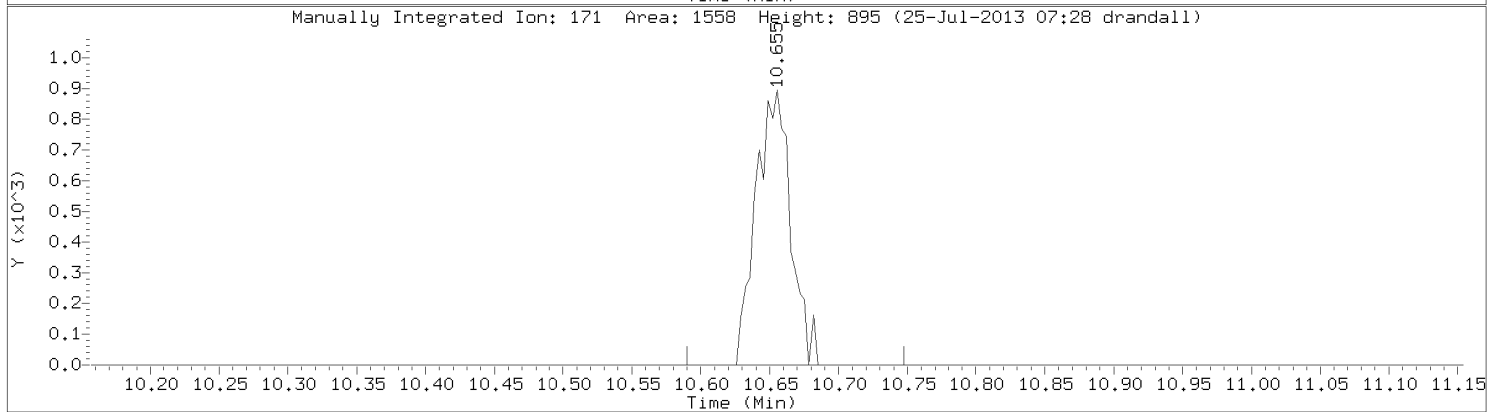
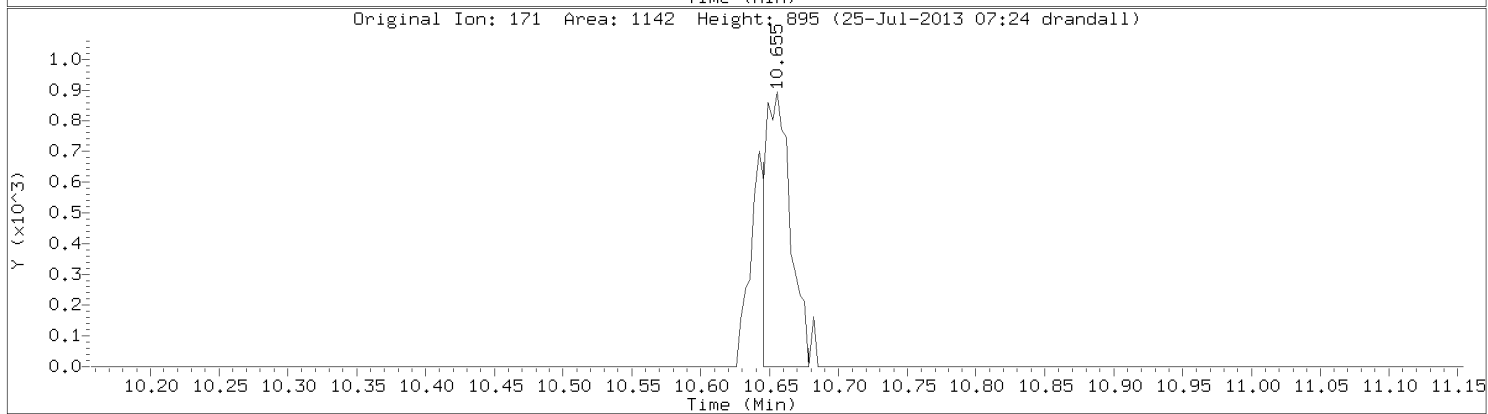
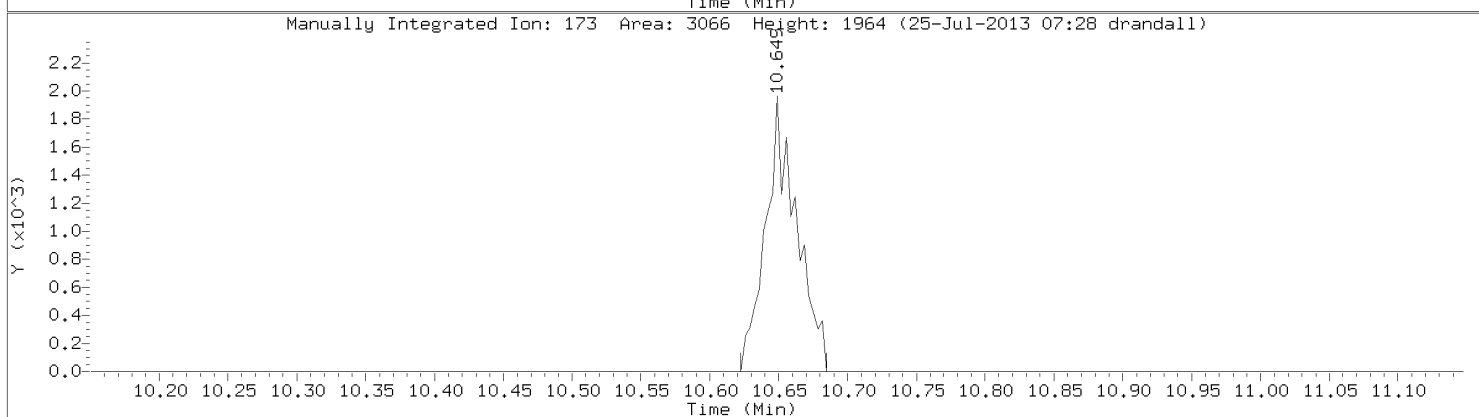
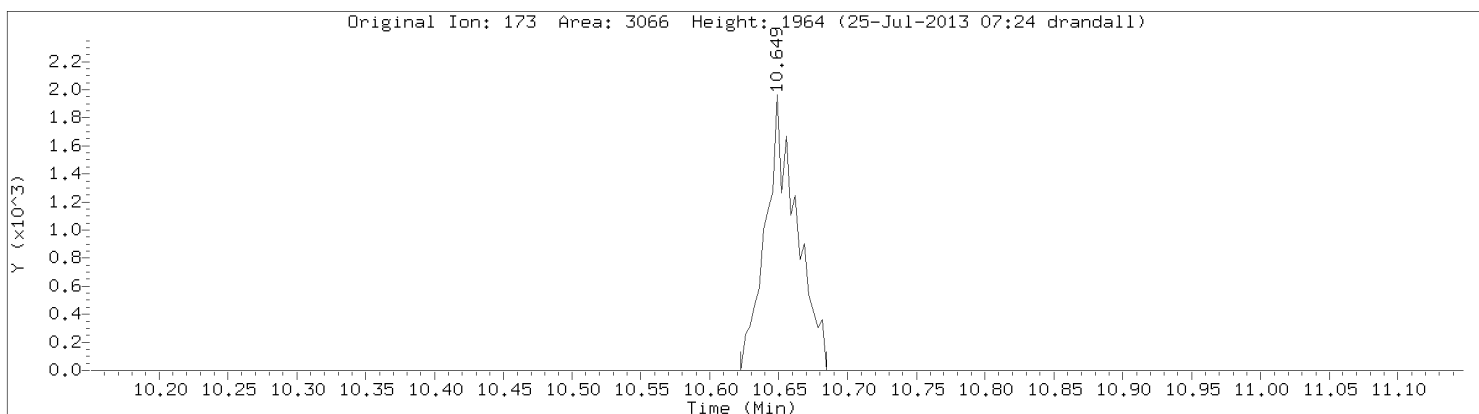
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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

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



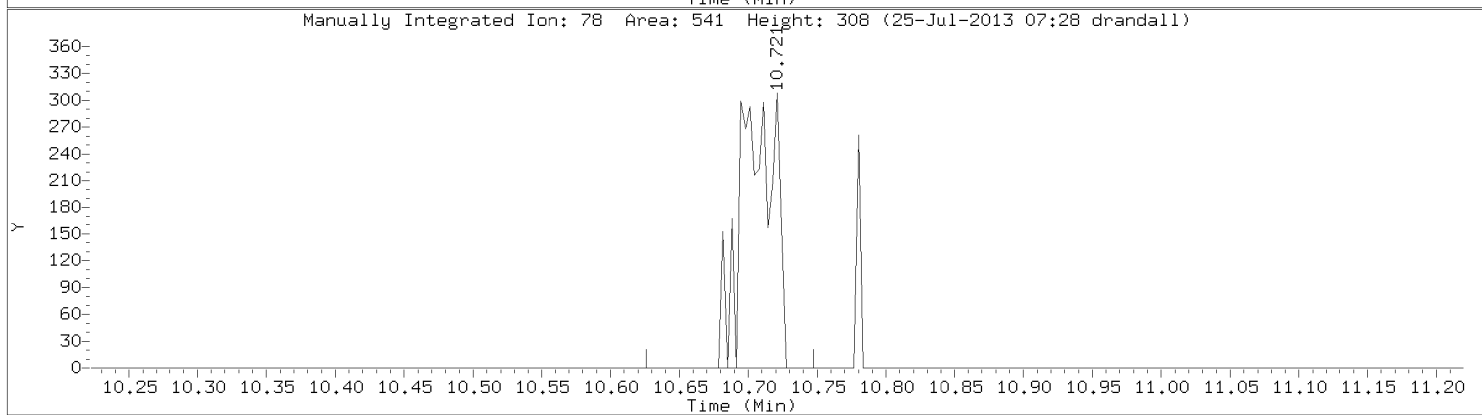
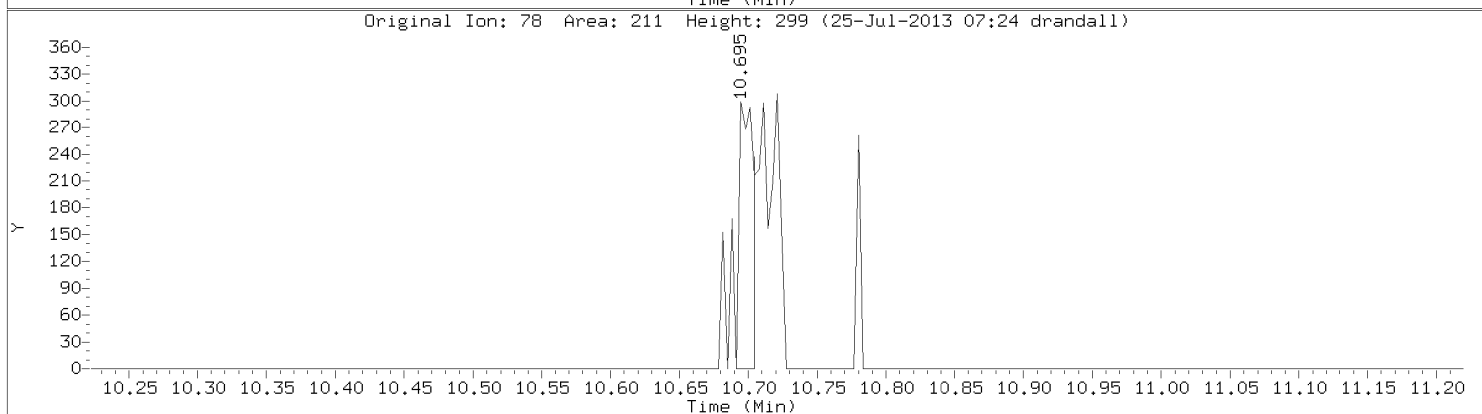
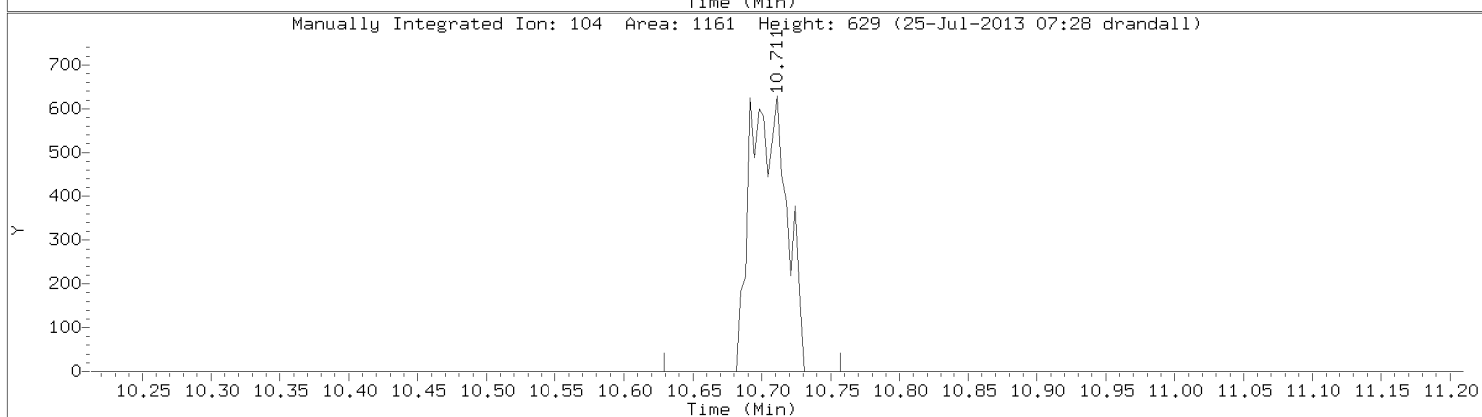
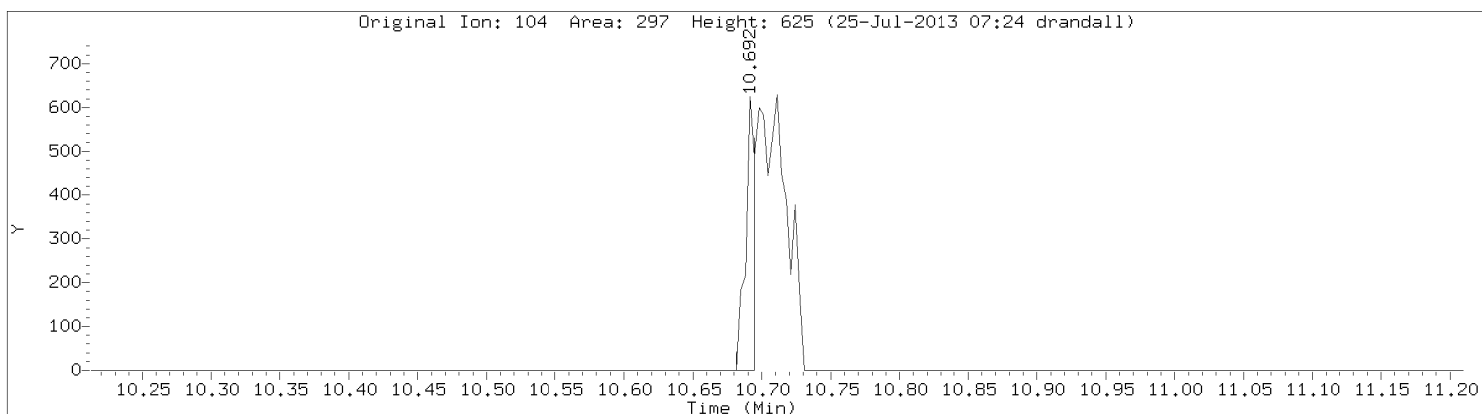
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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Bromoform
CAS Number: 75-25-2

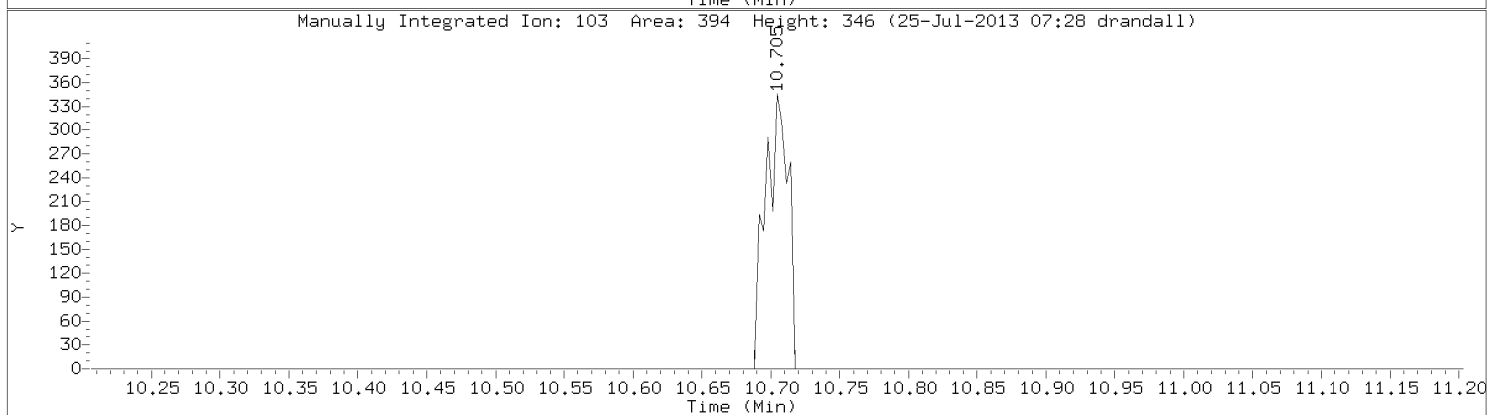
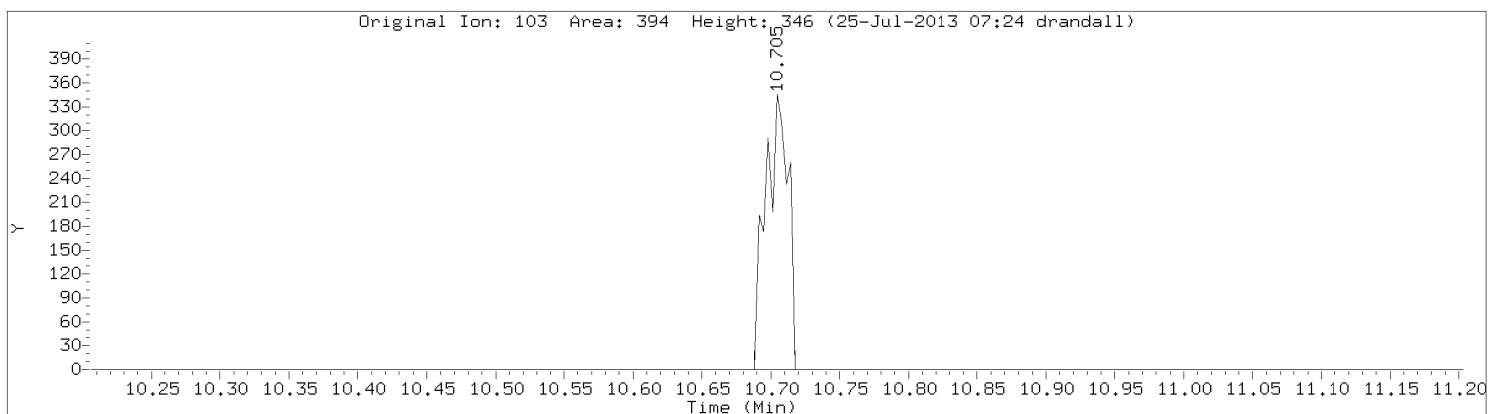


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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Styrene
CAS Number: 100-42-5

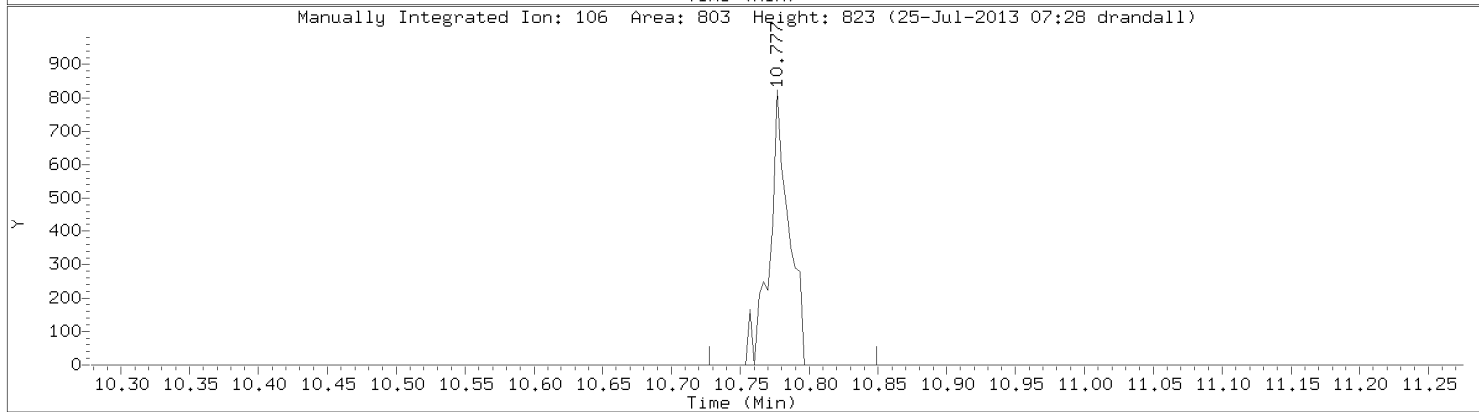
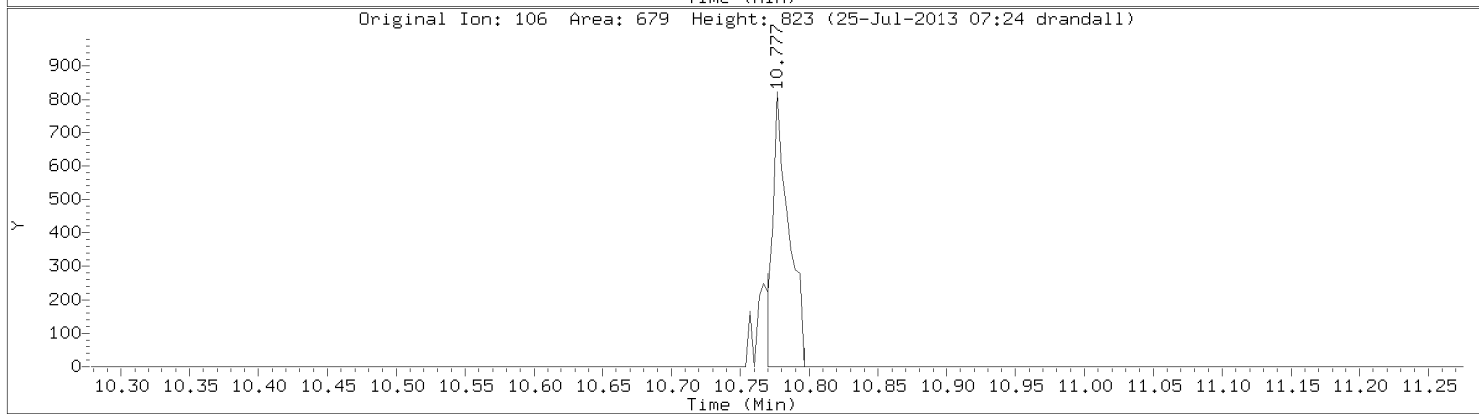
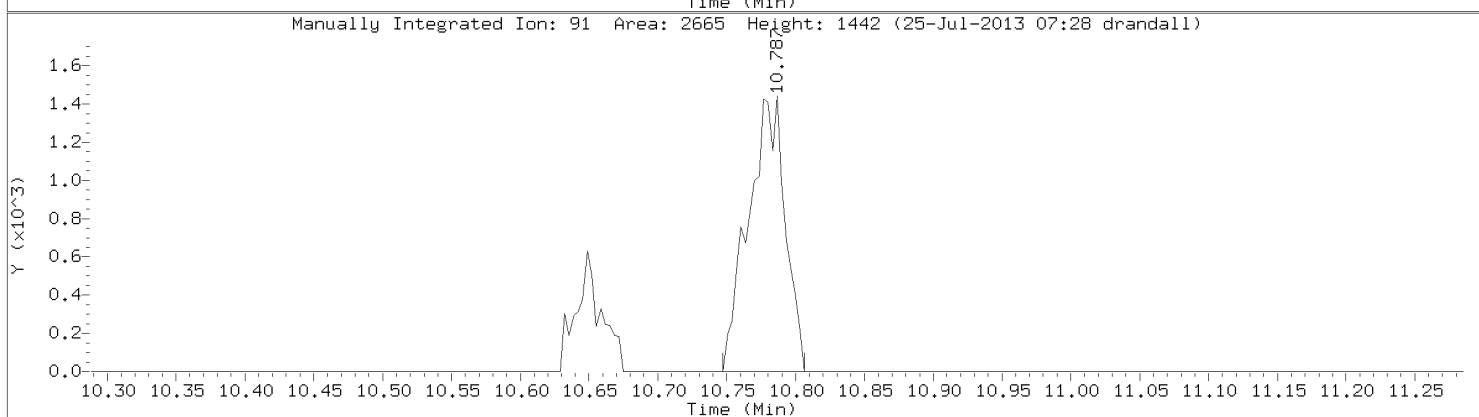
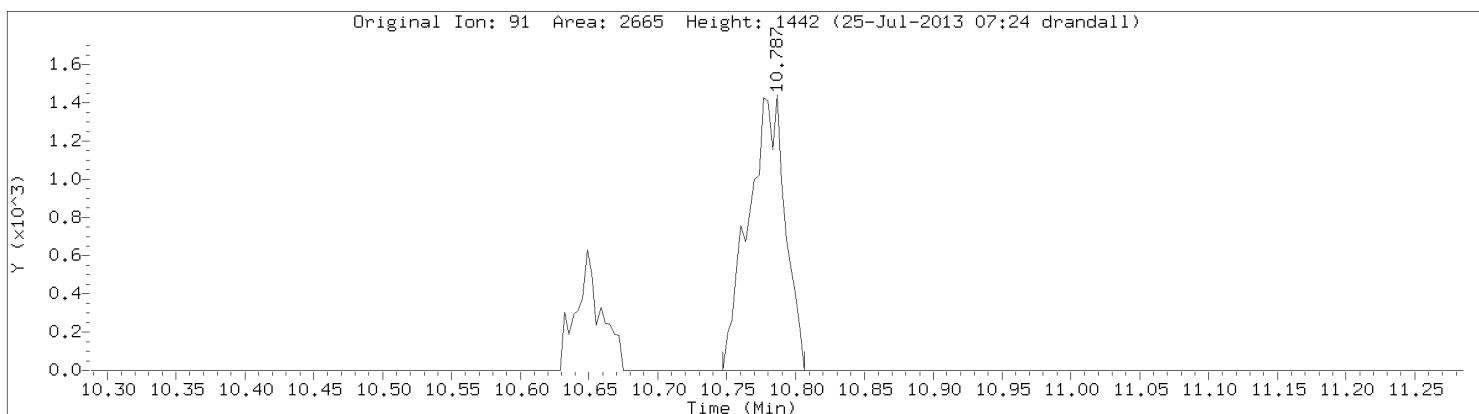


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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1



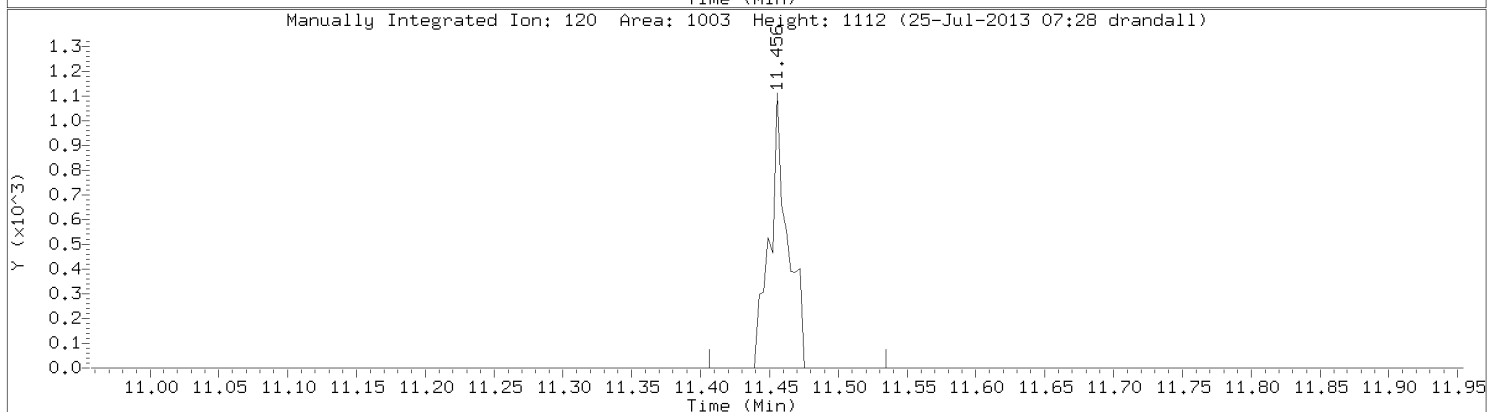
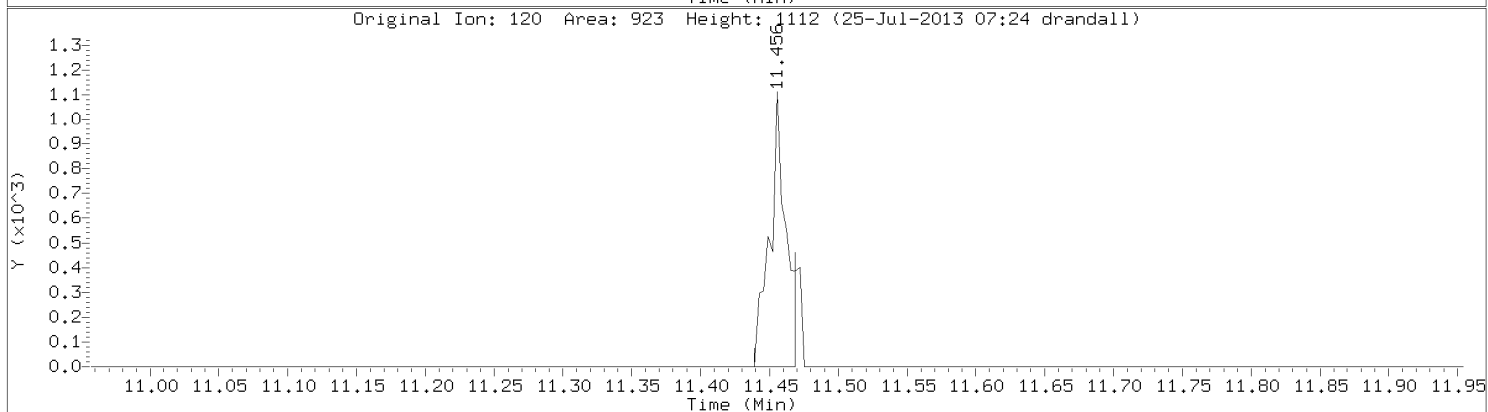
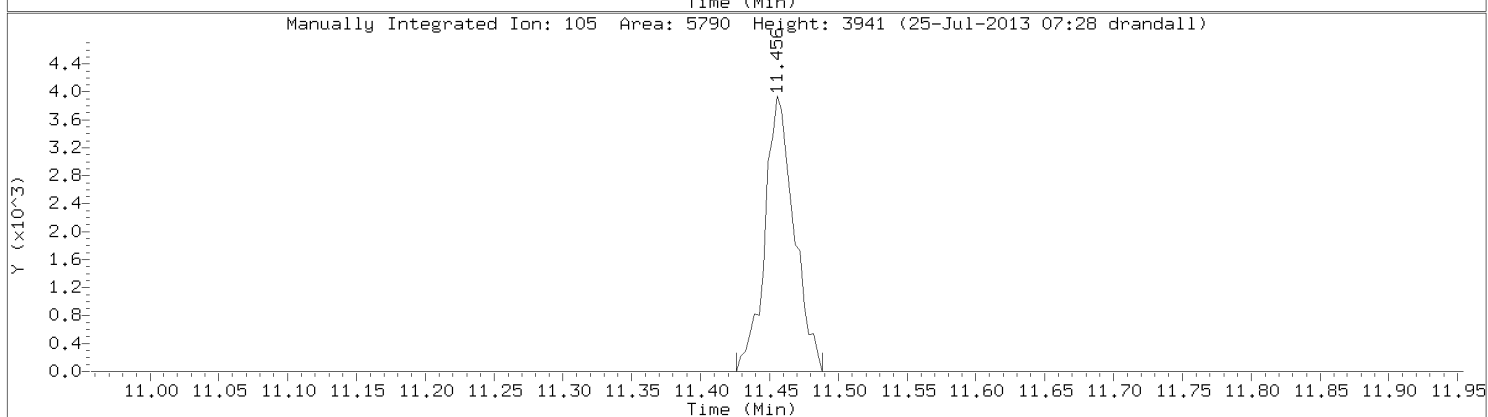
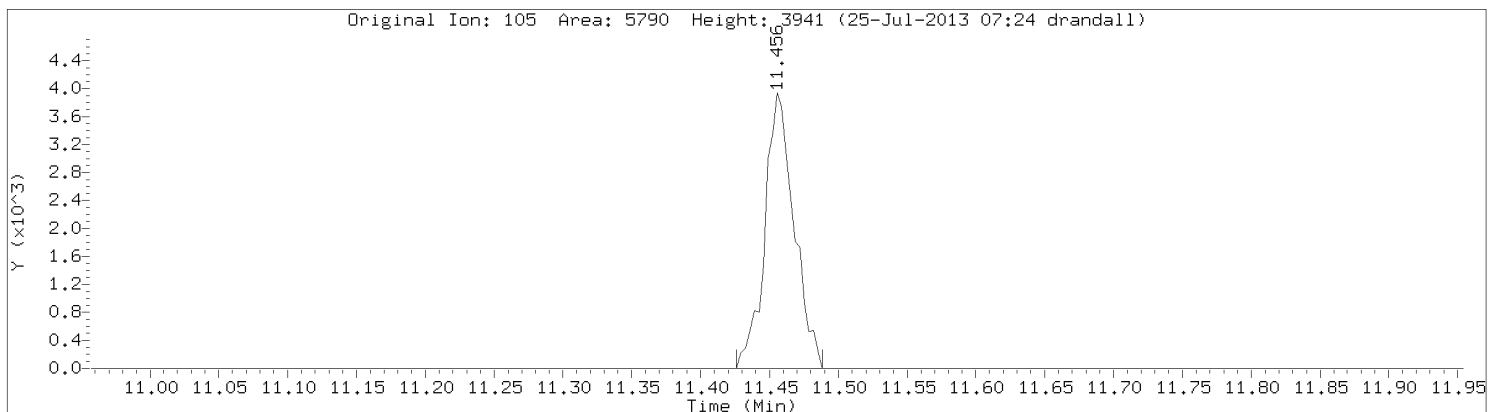
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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

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



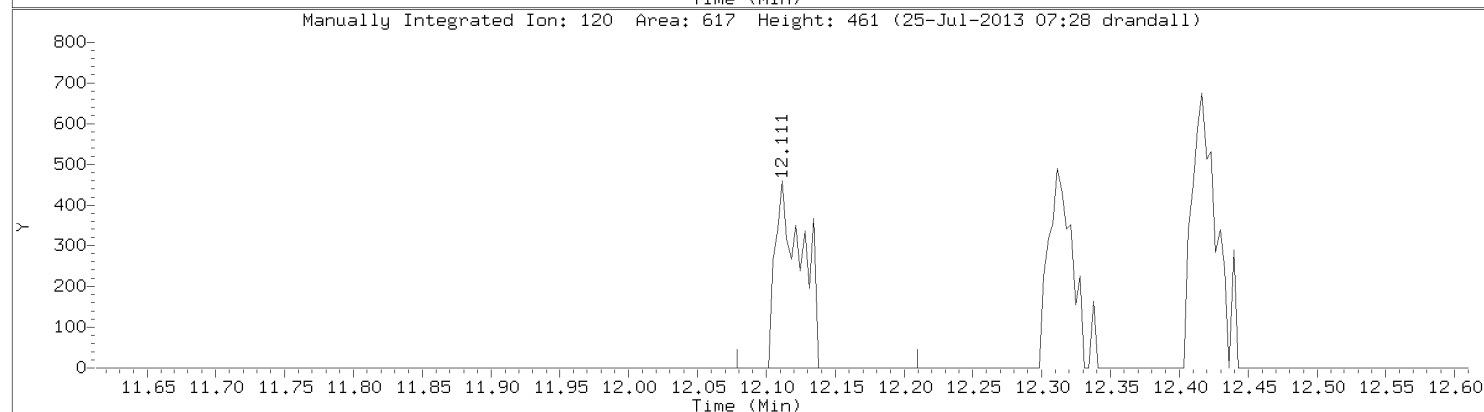
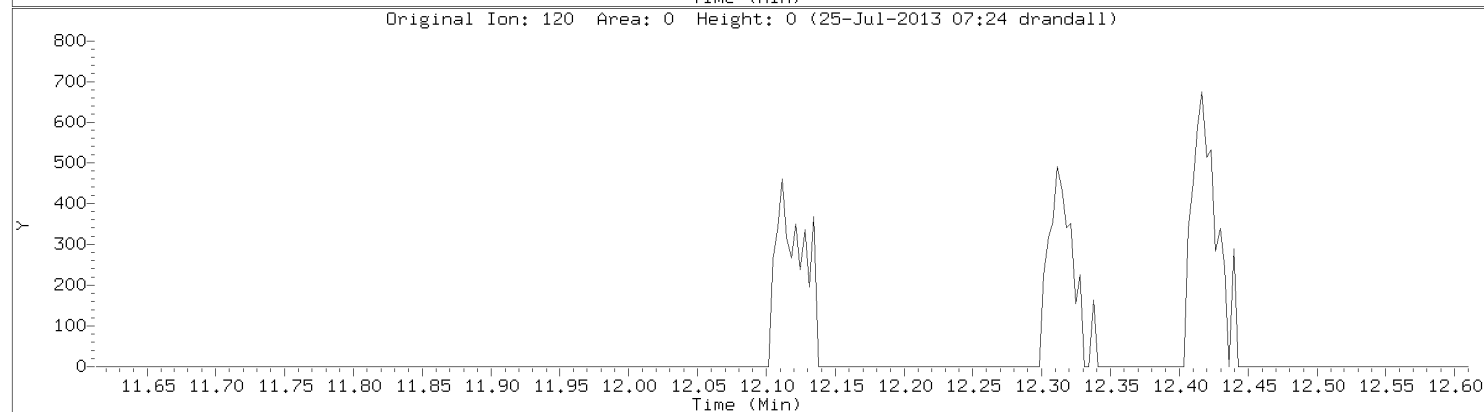
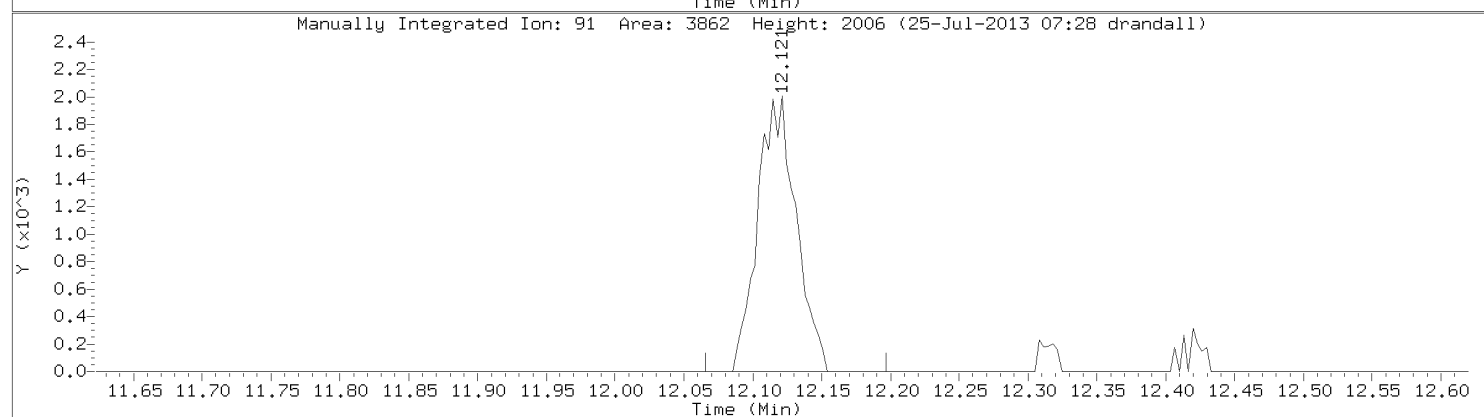
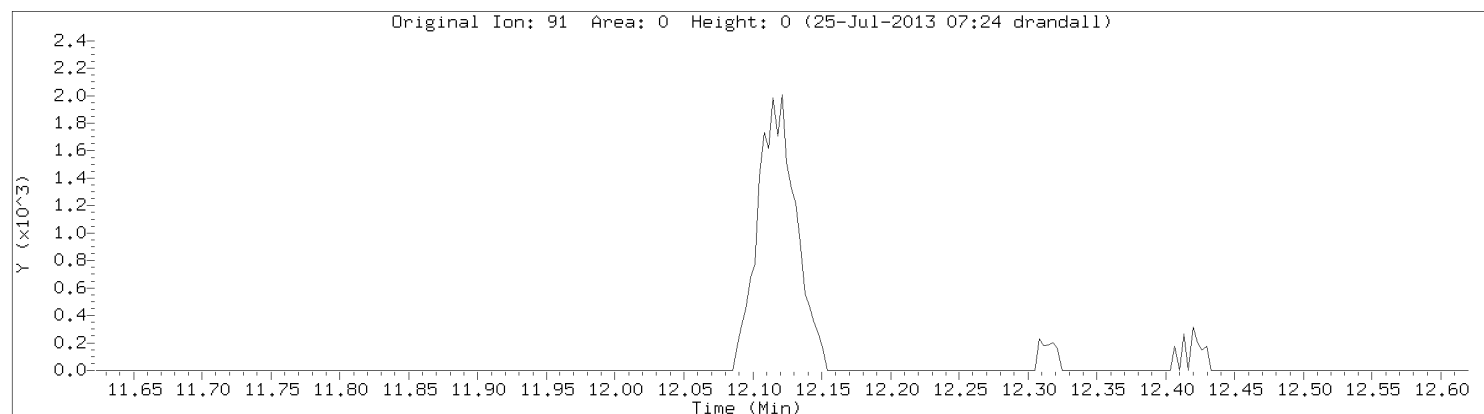
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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Isopropylbenzene
CAS Number:



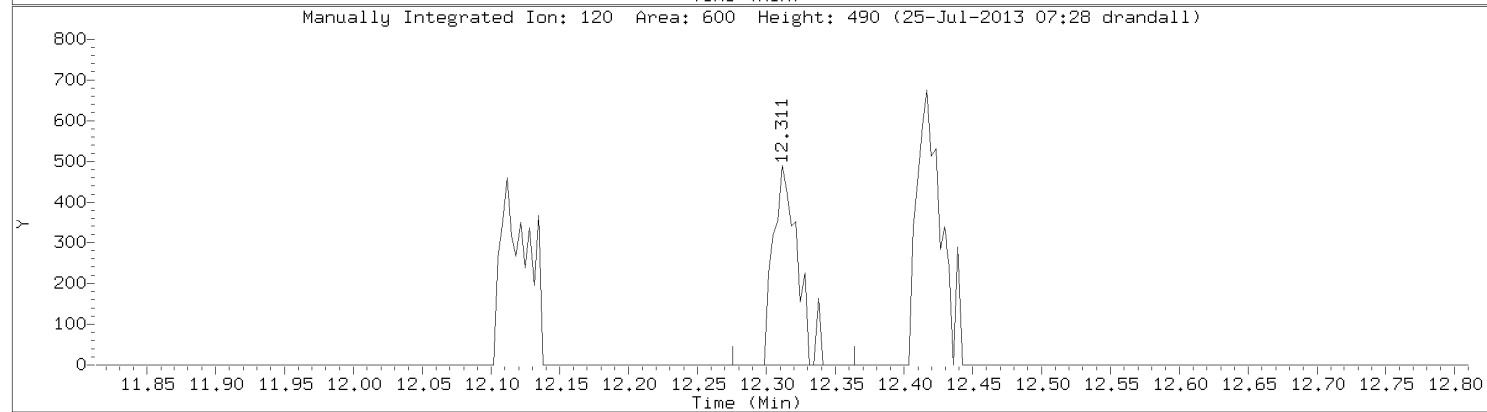
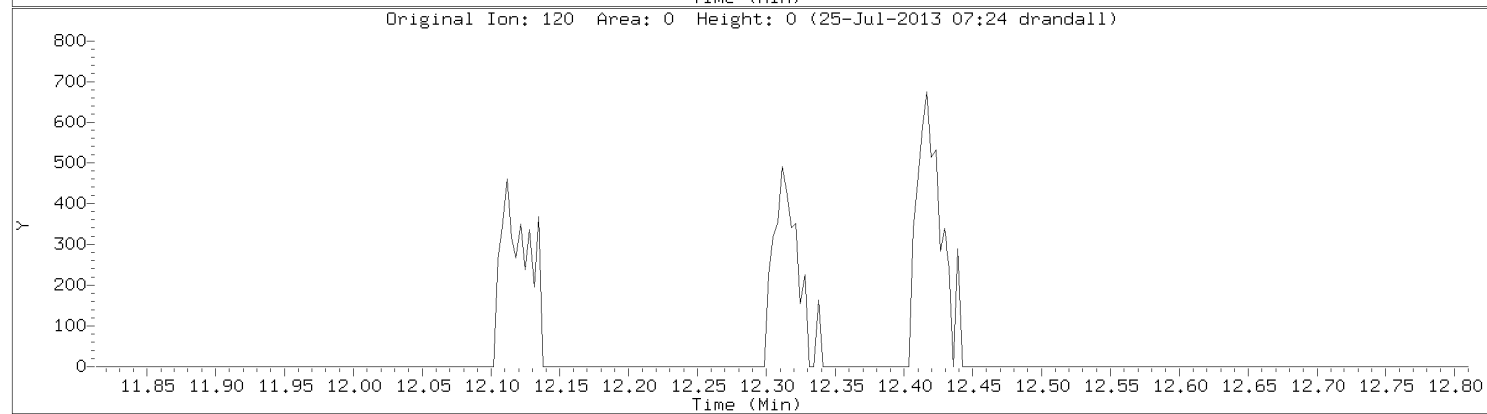
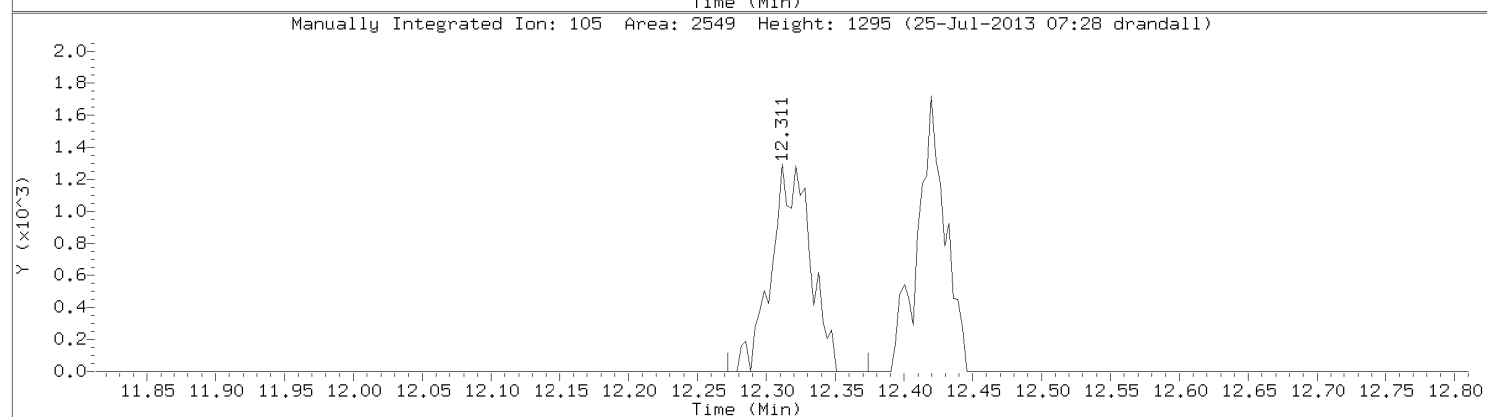
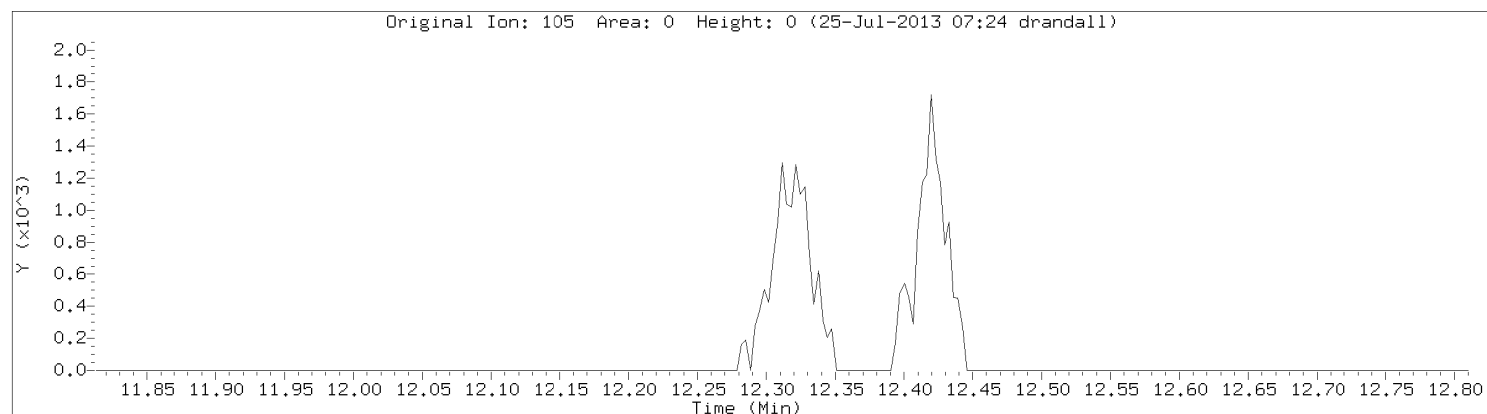
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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

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

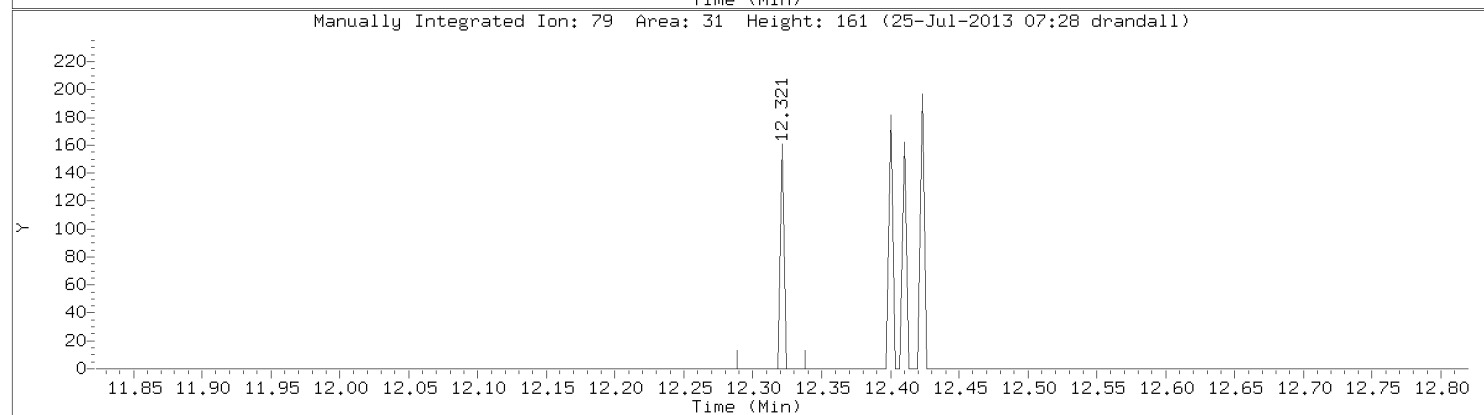
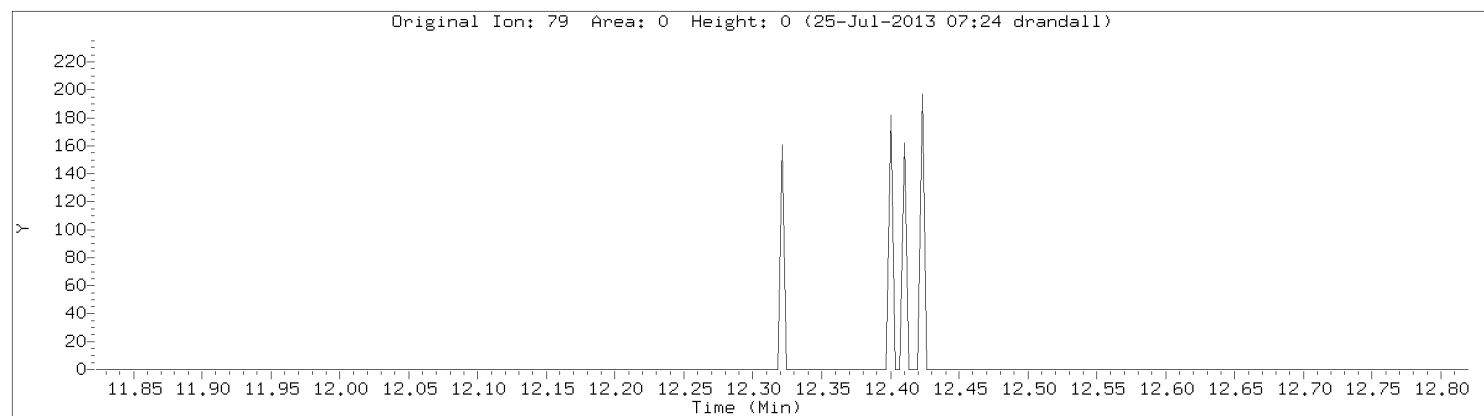


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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

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

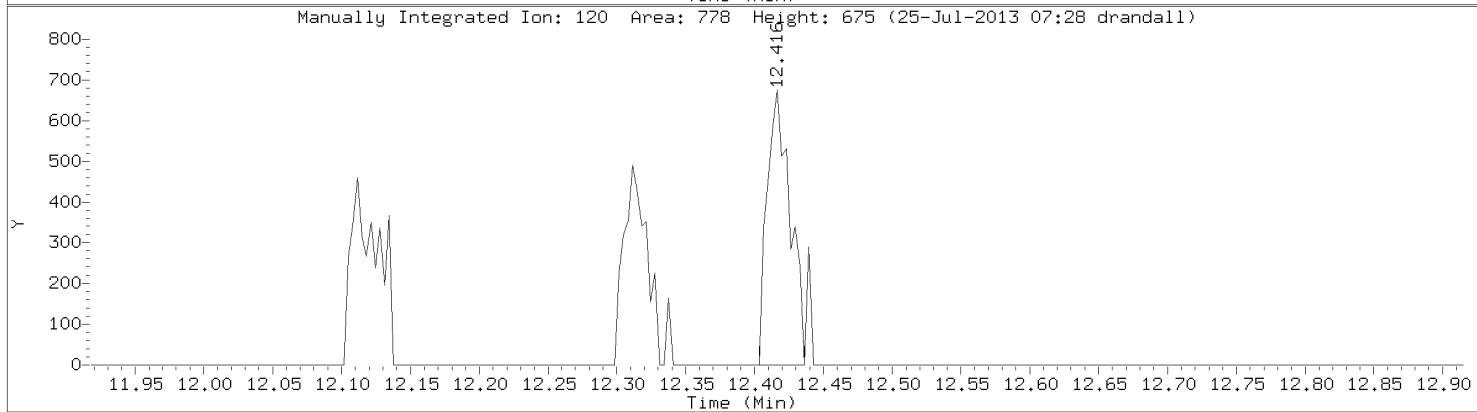
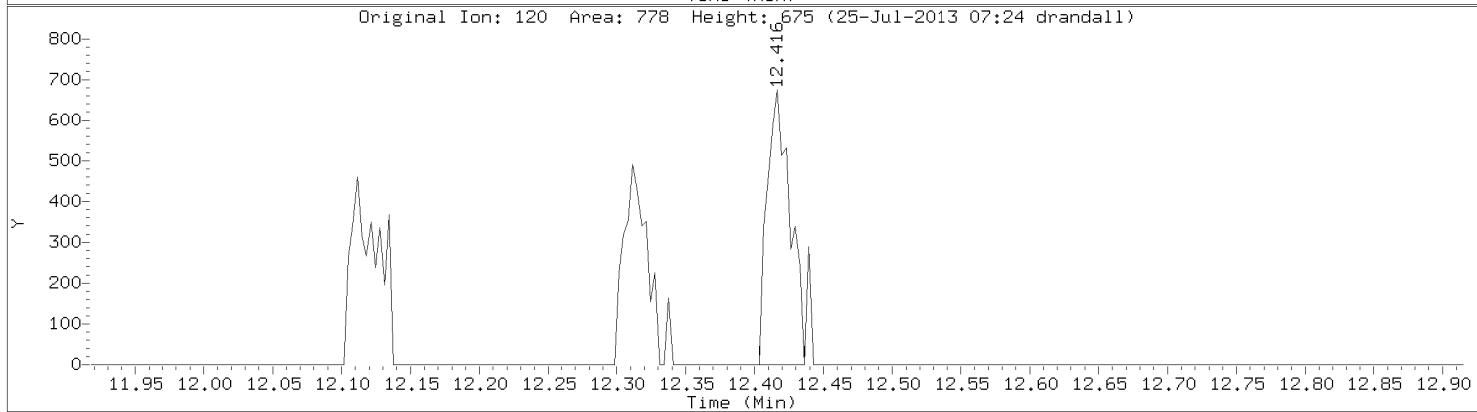
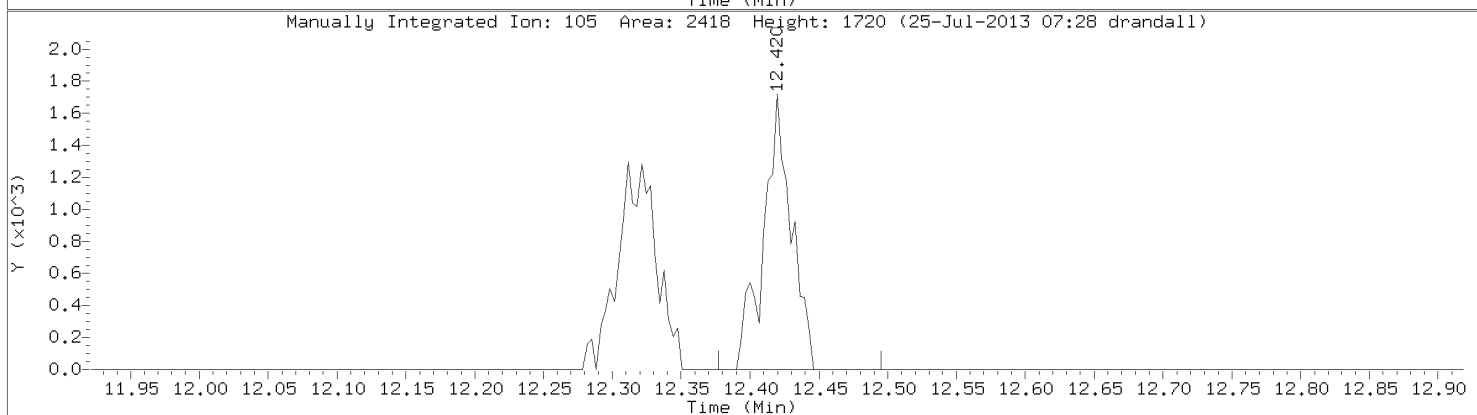
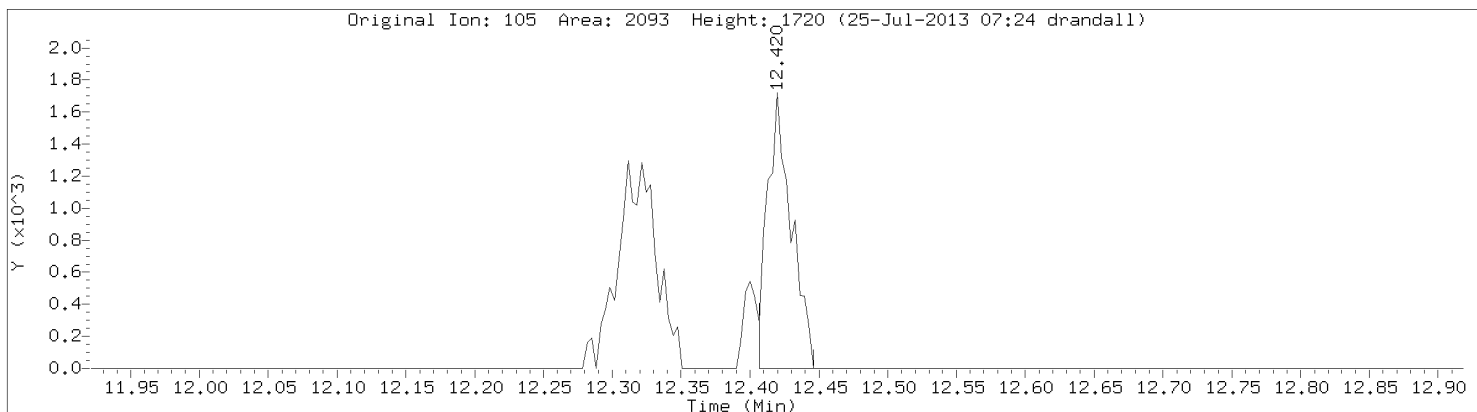


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Lab Sample ID: CAL1



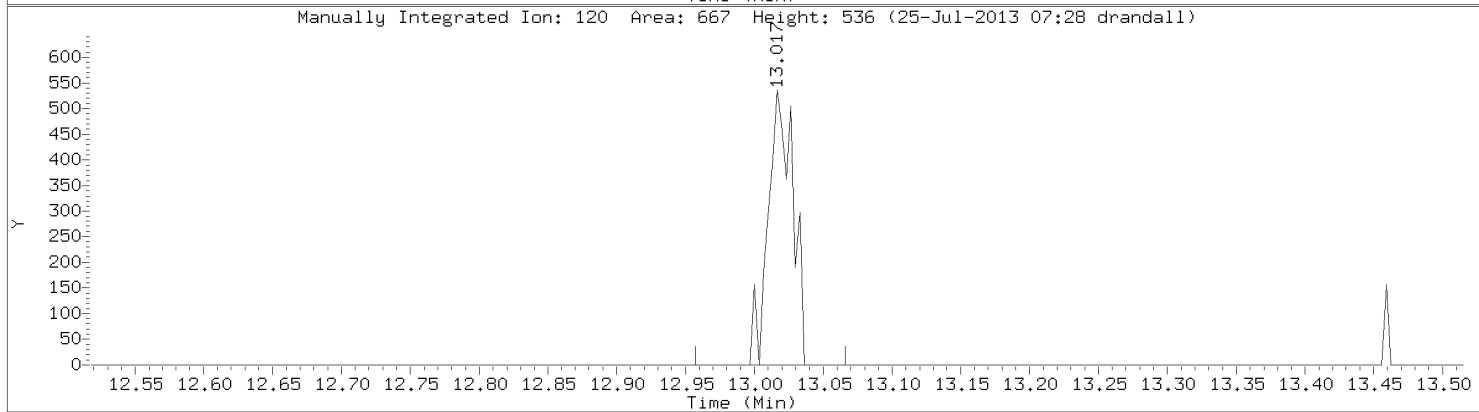
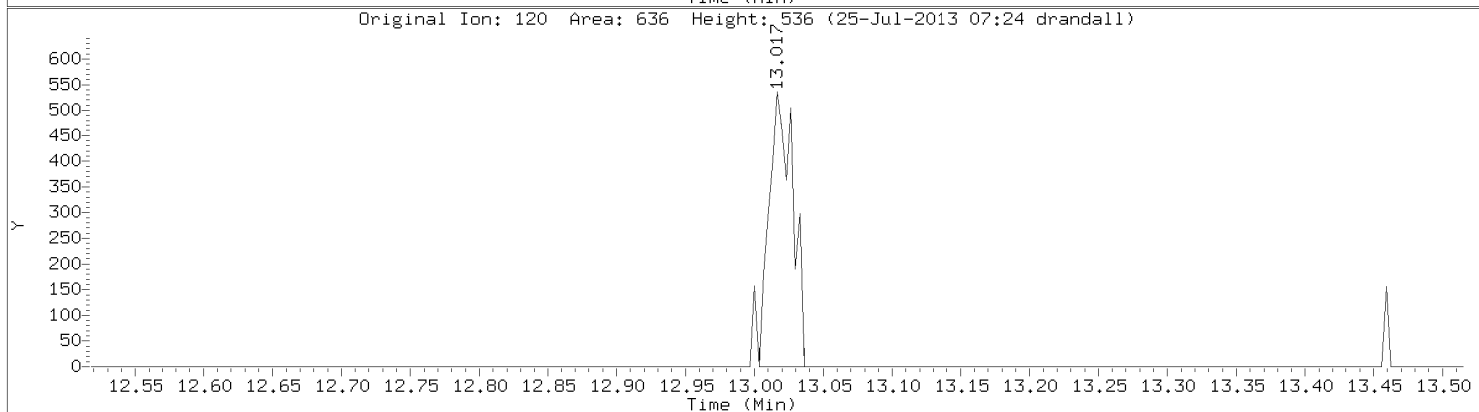
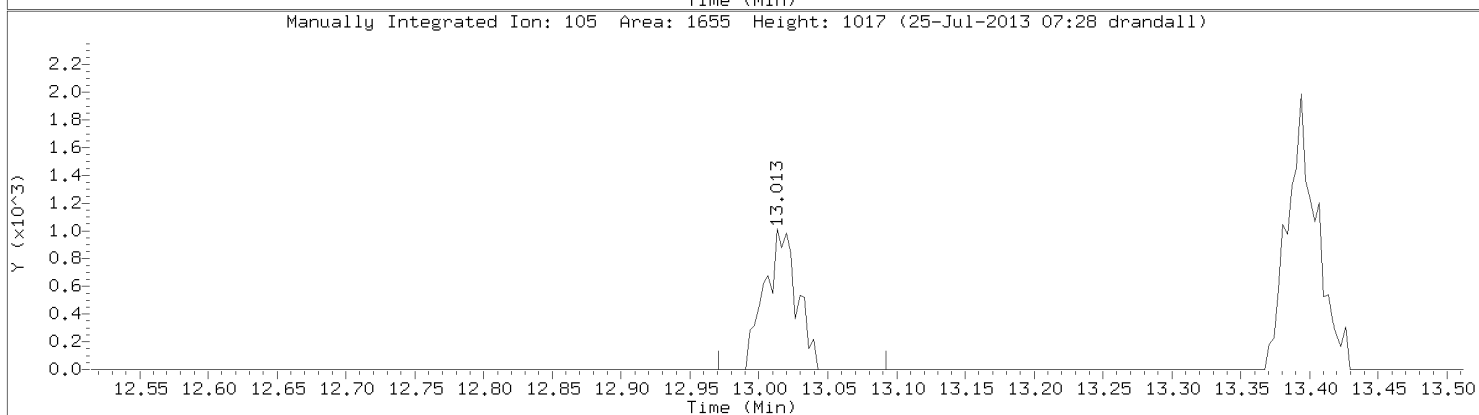
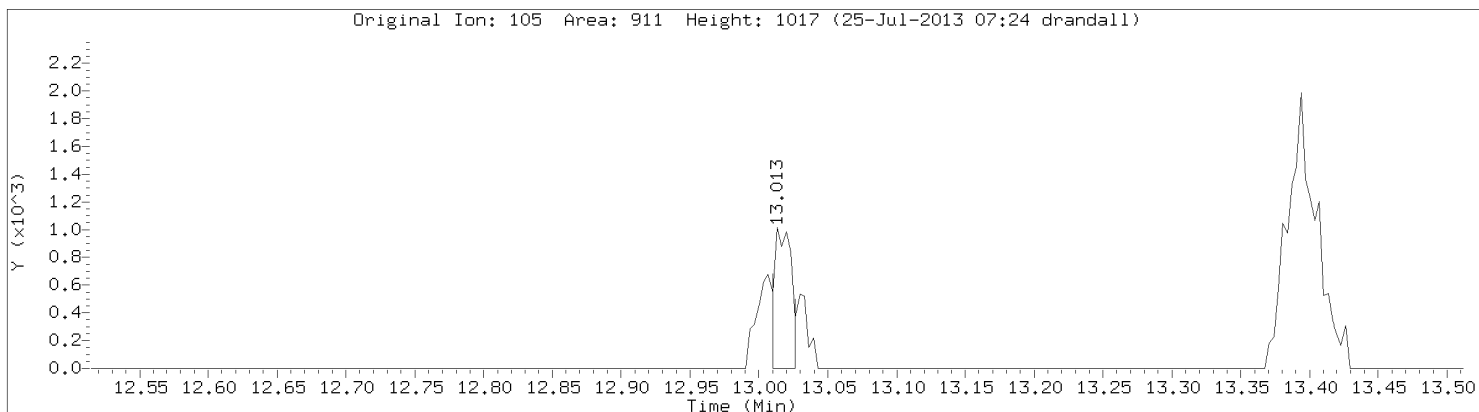
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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

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



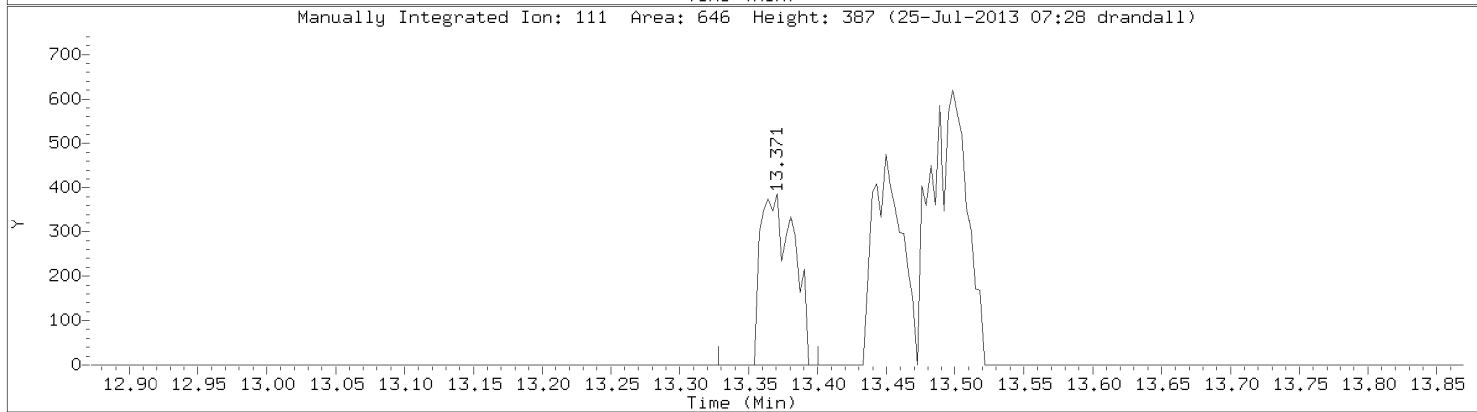
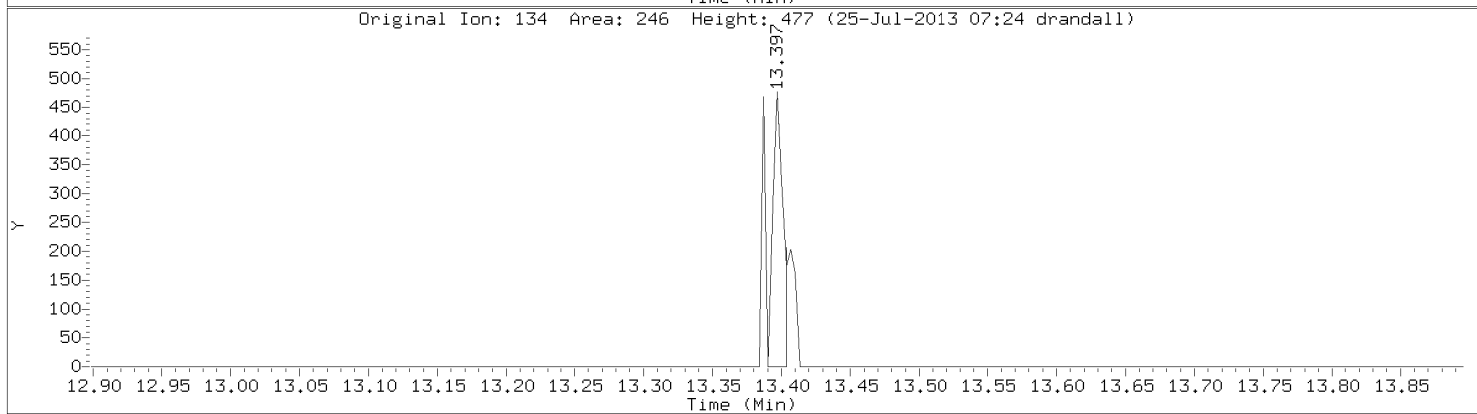
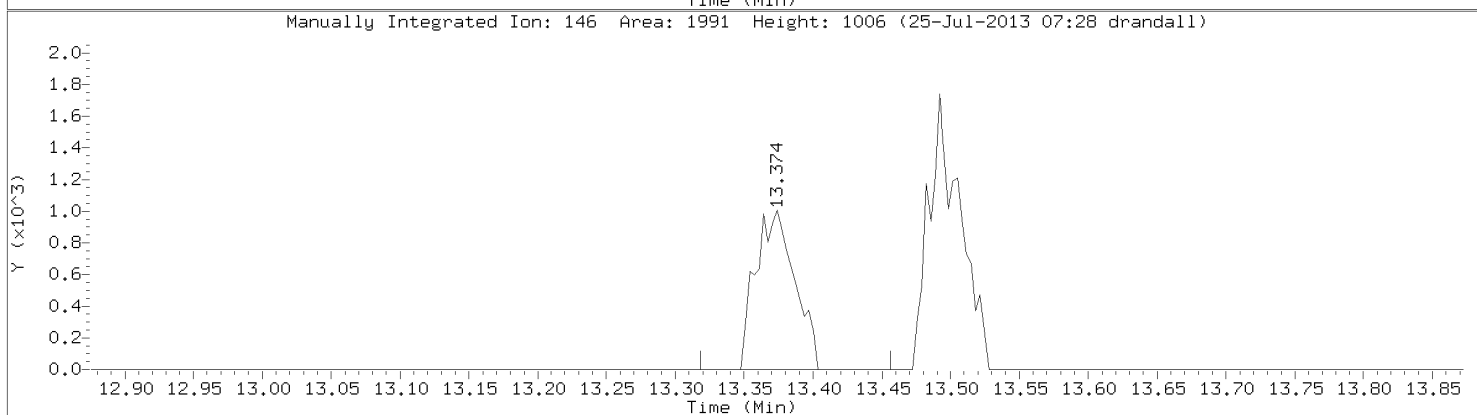
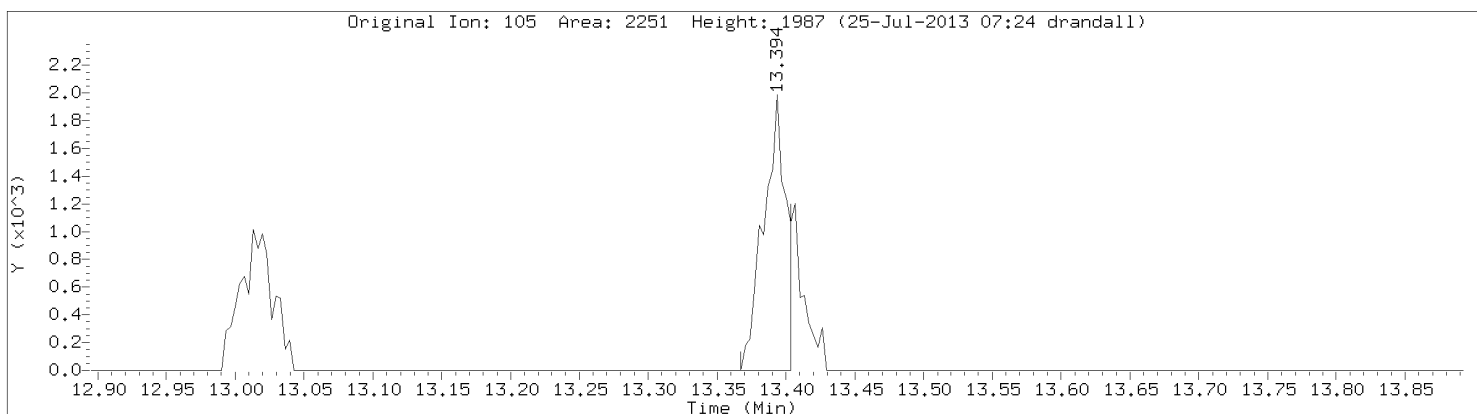
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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

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

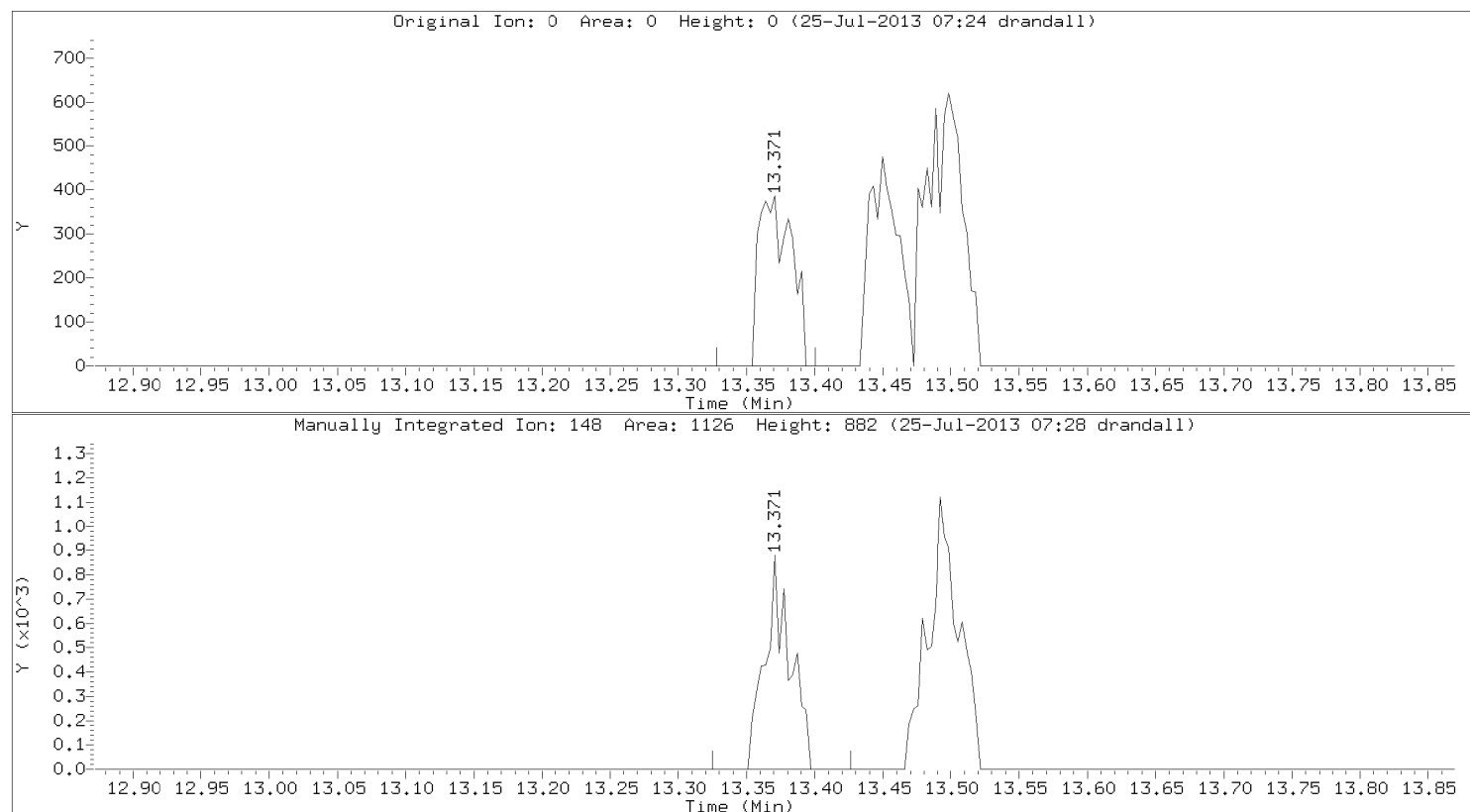


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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

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

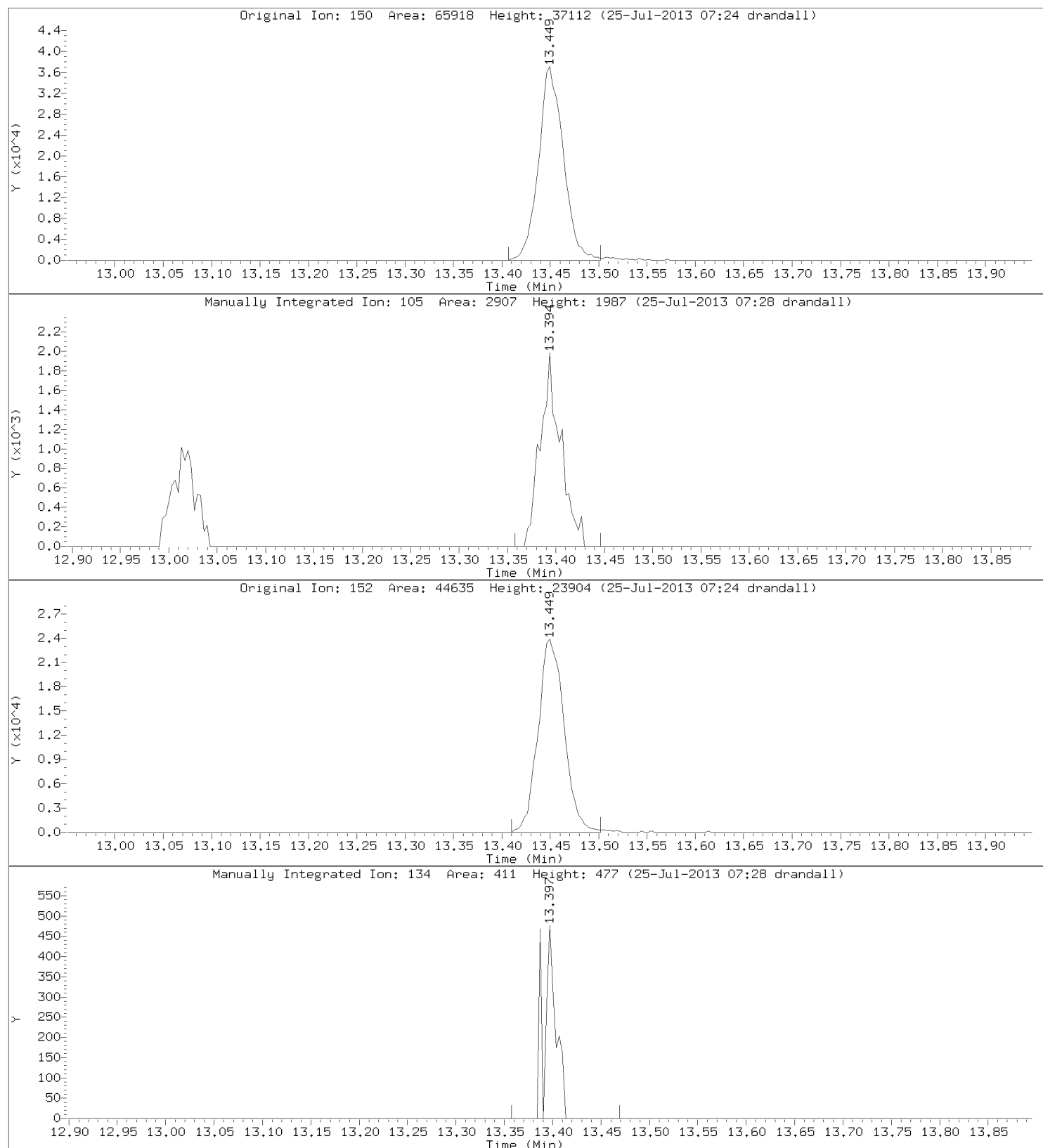


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Instrument: 10airD.i
Lab Sample ID: CAL1



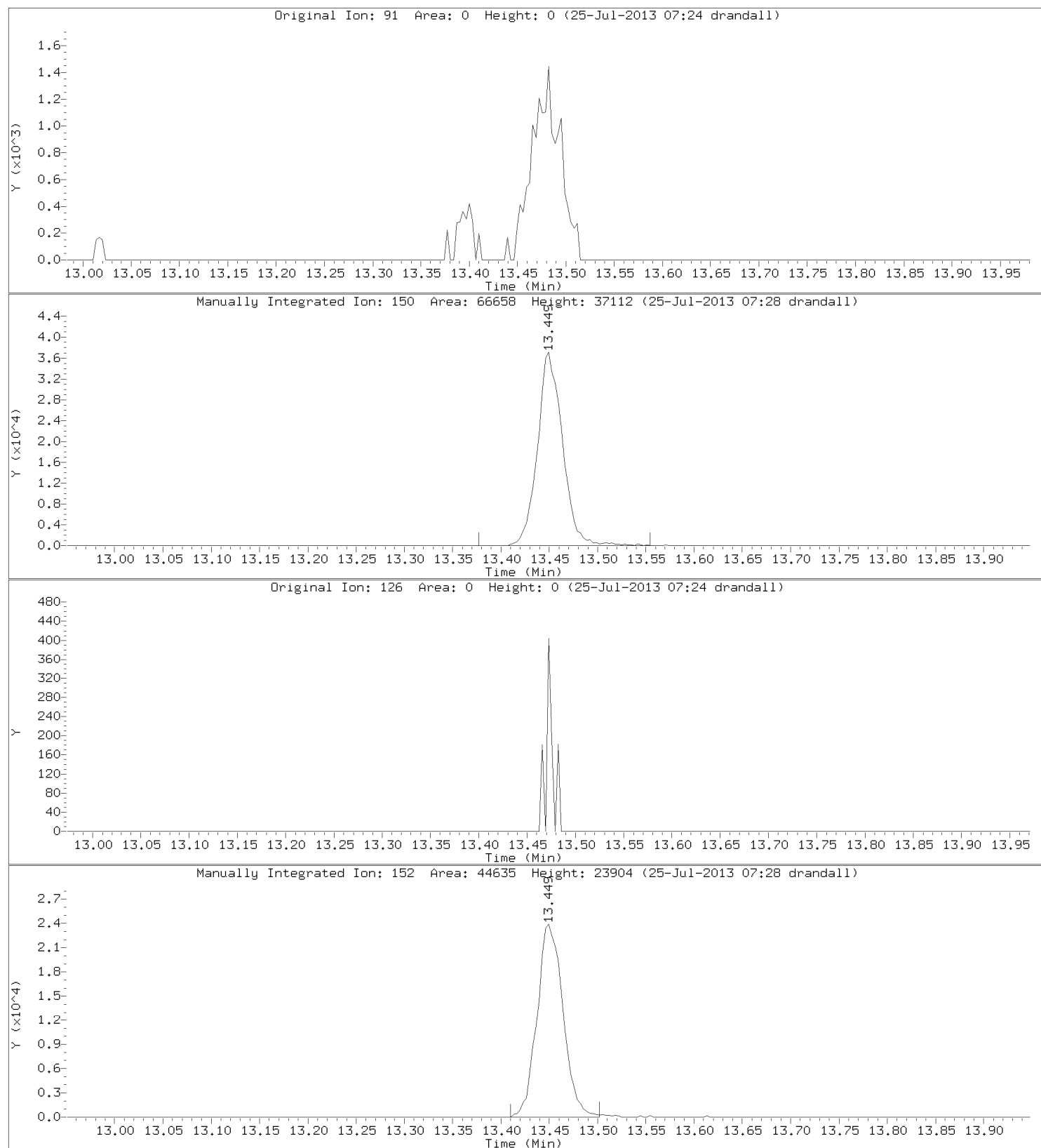
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Instrument: 10airD.i
Lab Sample ID: CAL1

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



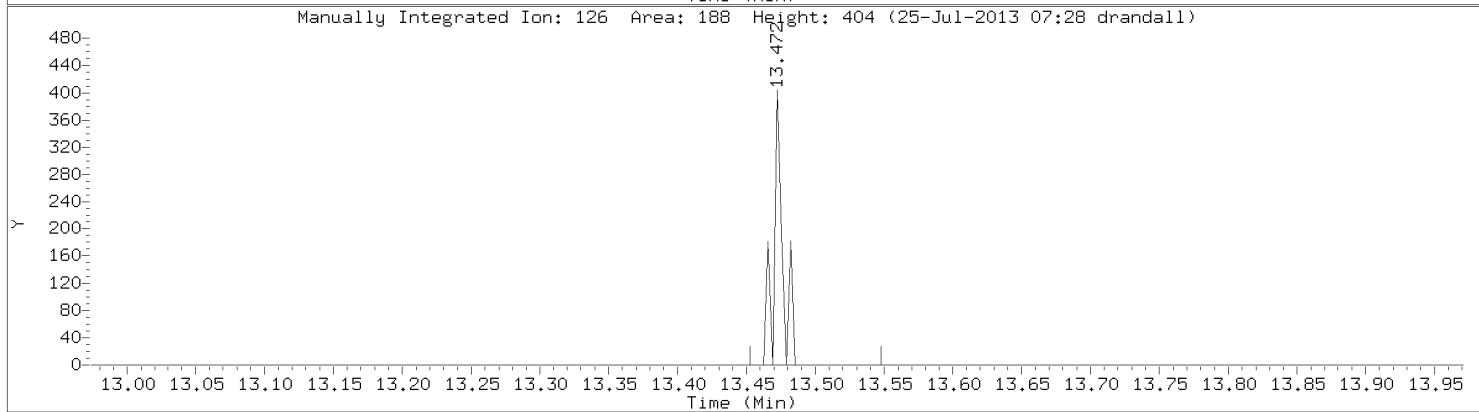
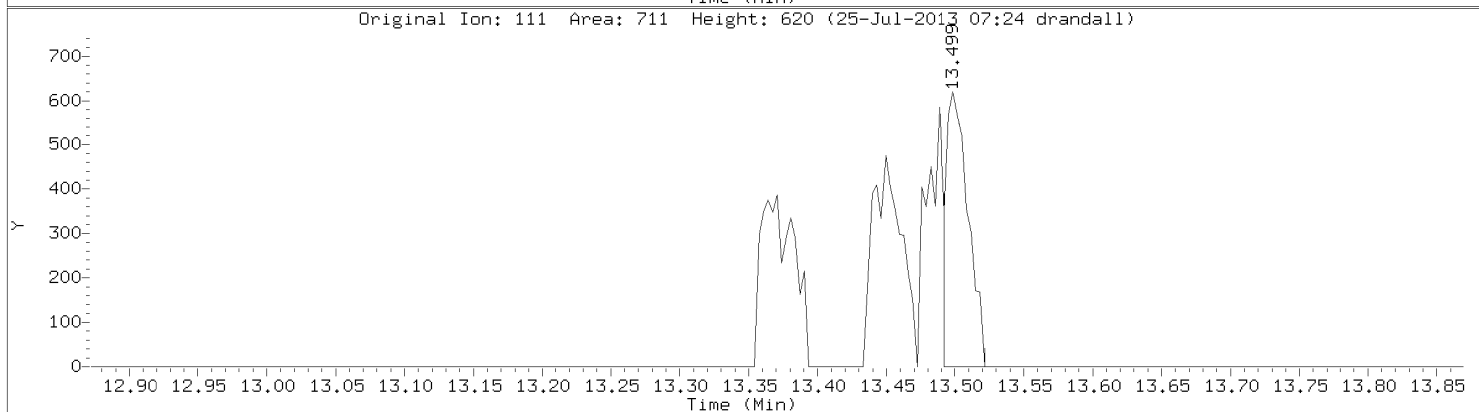
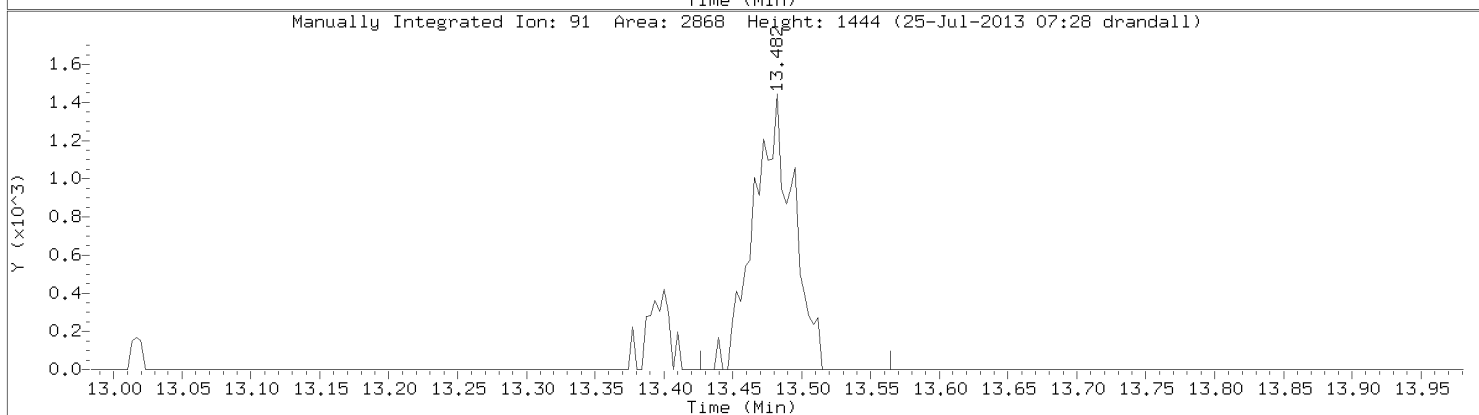
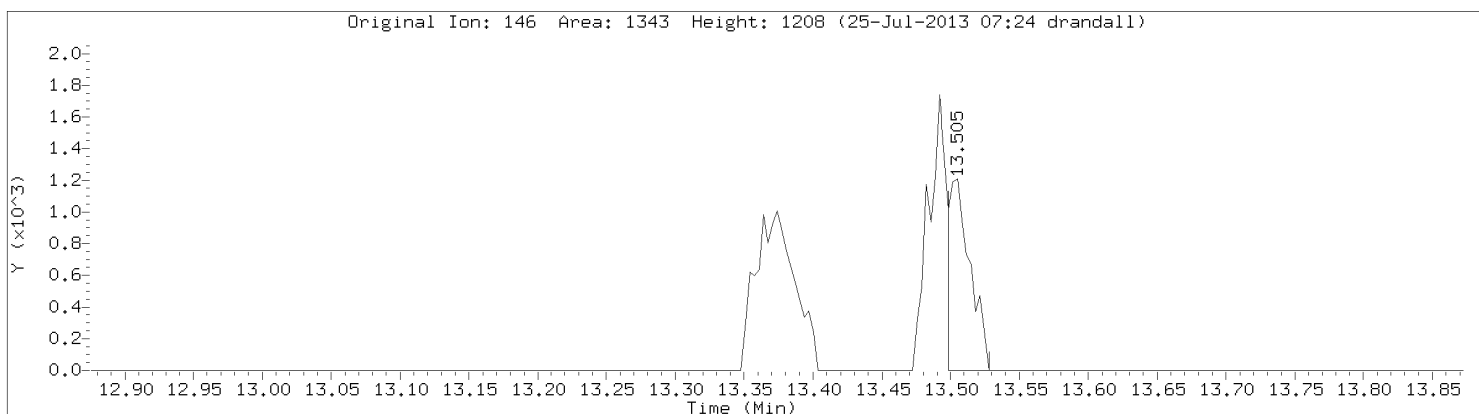
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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:



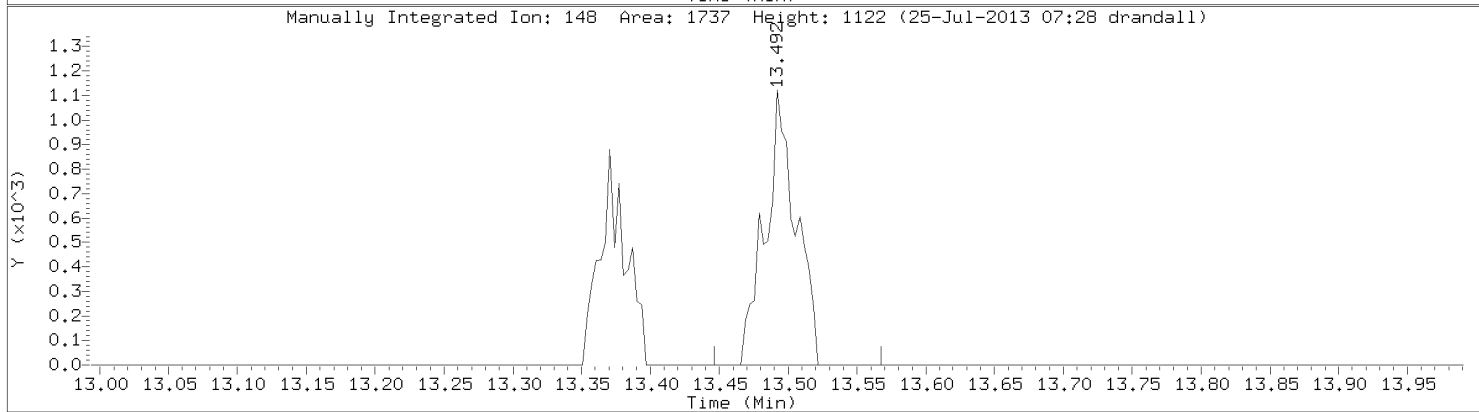
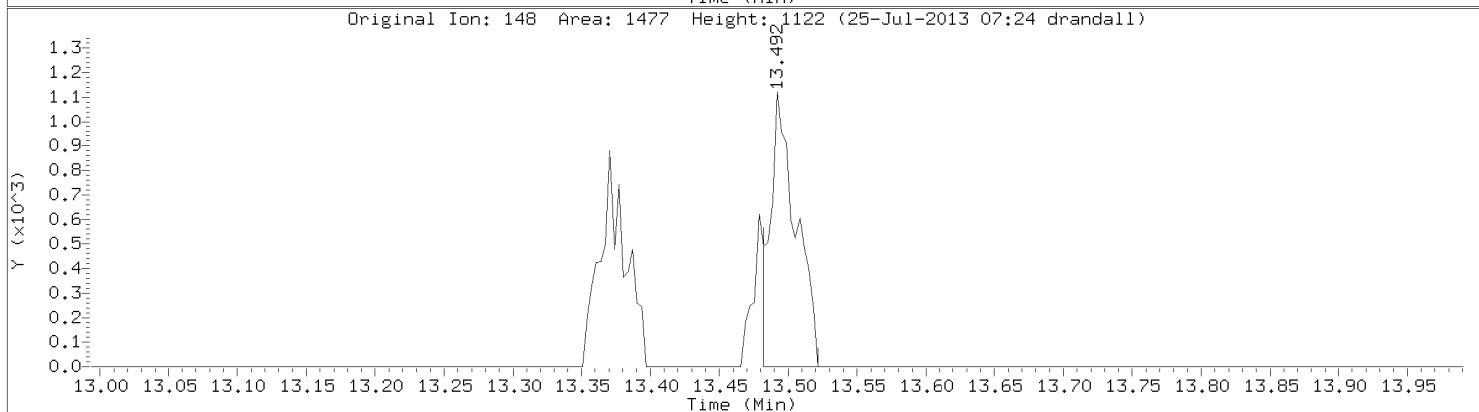
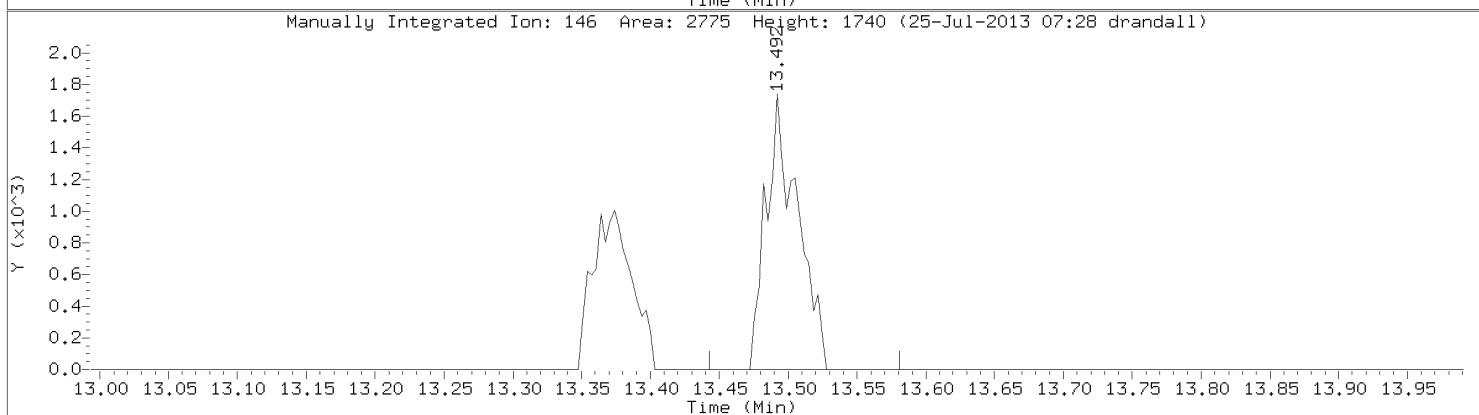
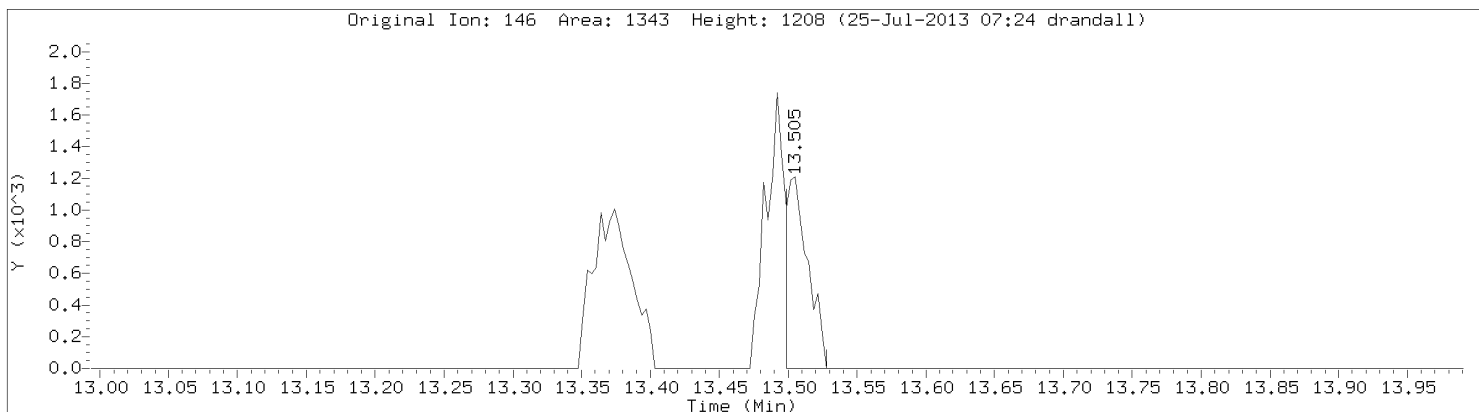
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Instrument: 10airD.i
Lab Sample ID: CAL1

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

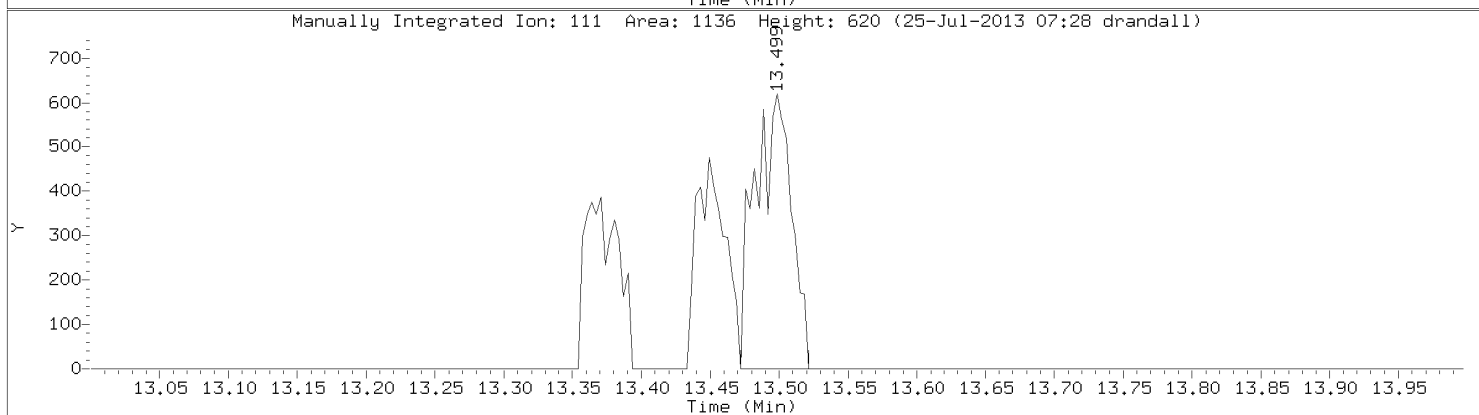
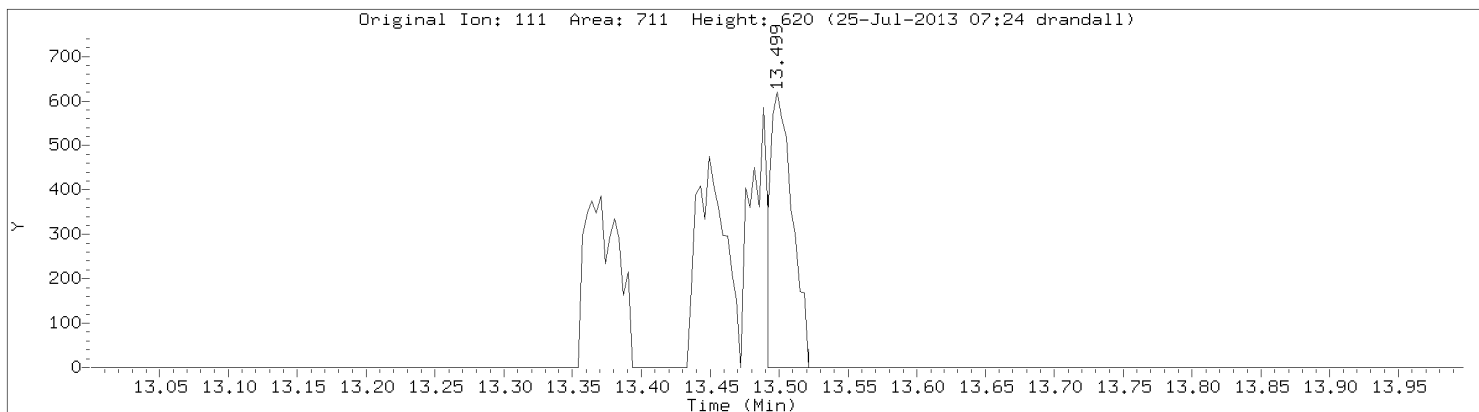


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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

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

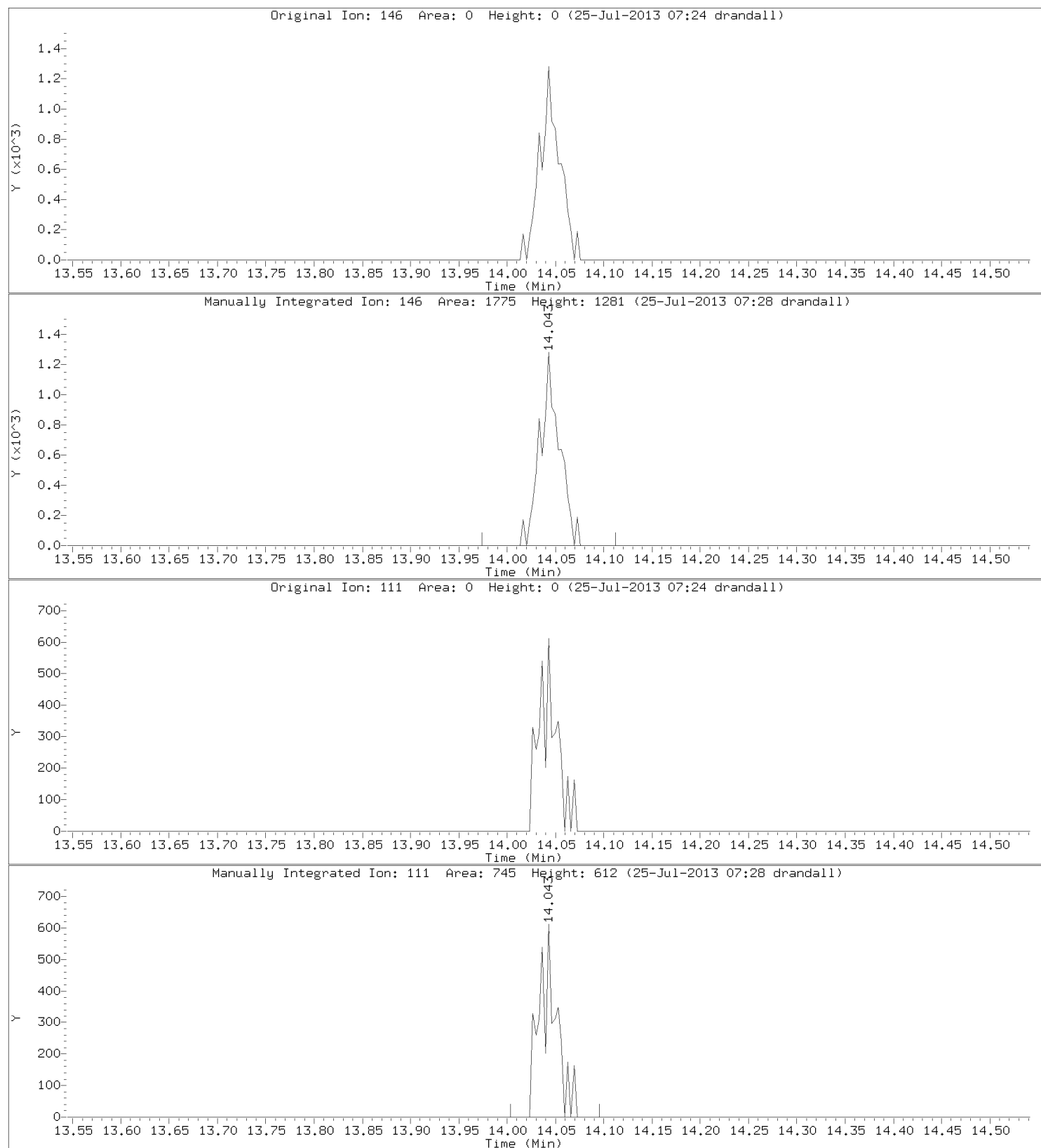


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Lab Sample ID: CAL1

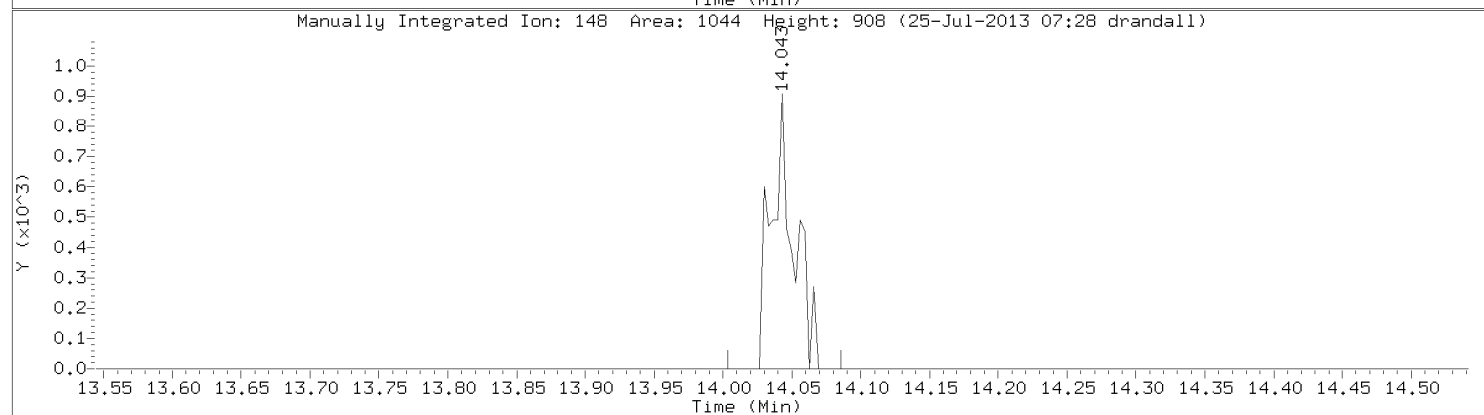
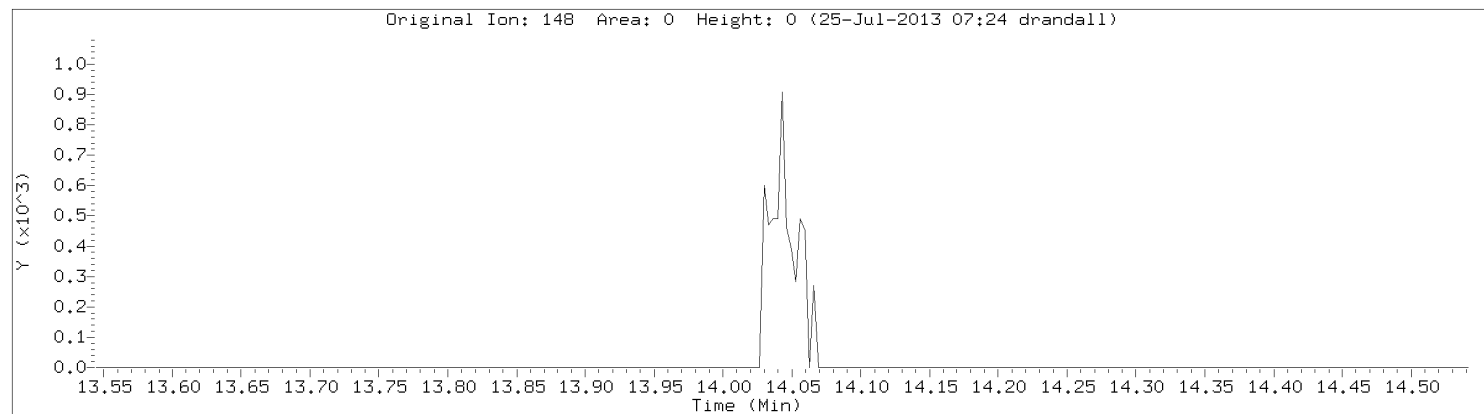


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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

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

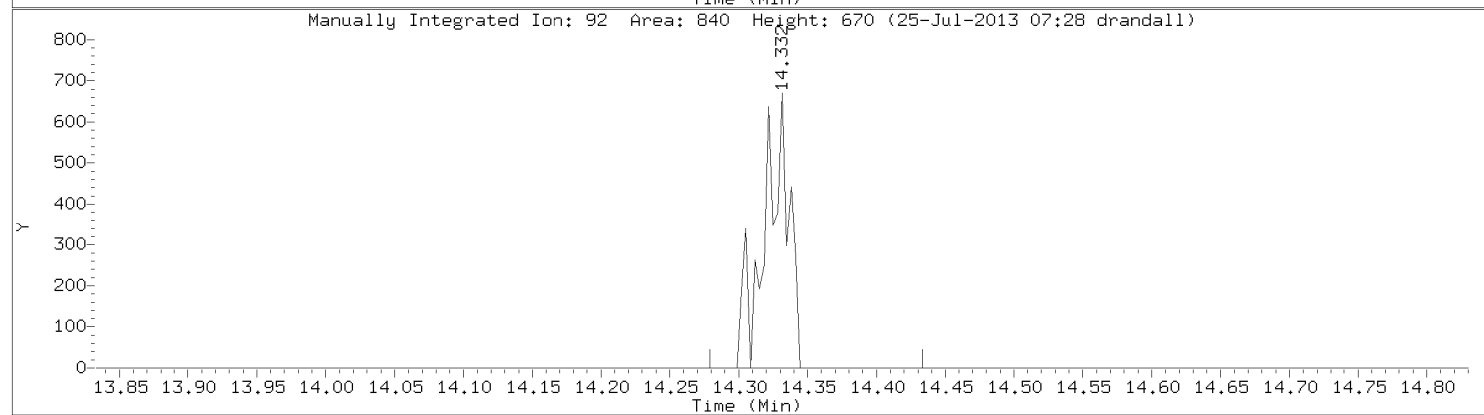
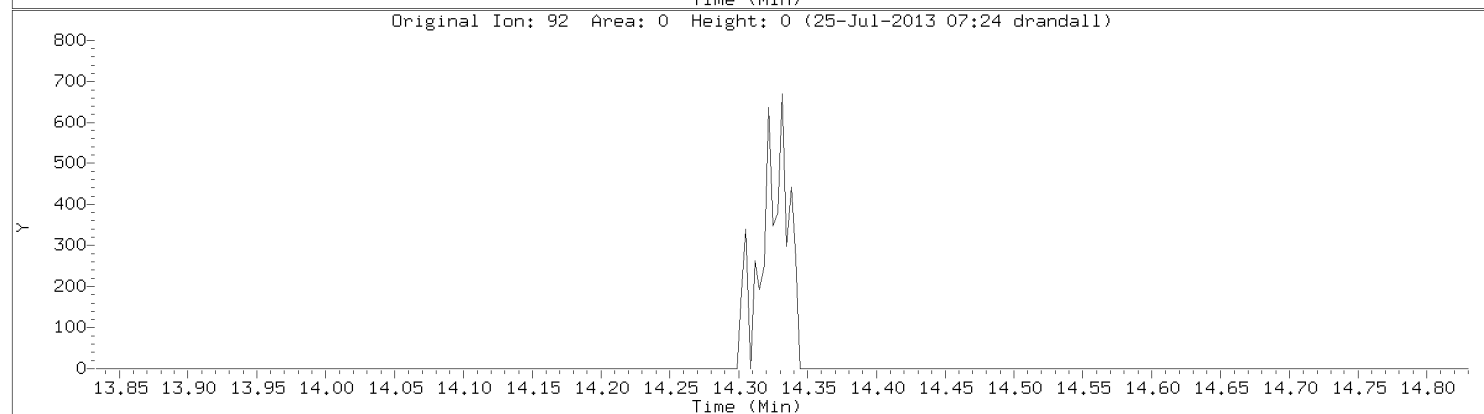
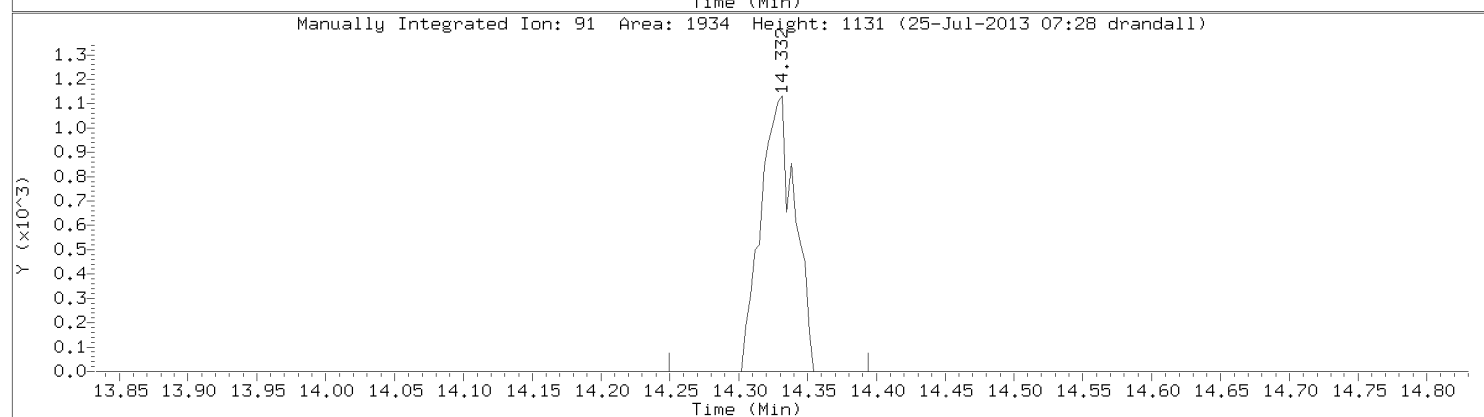
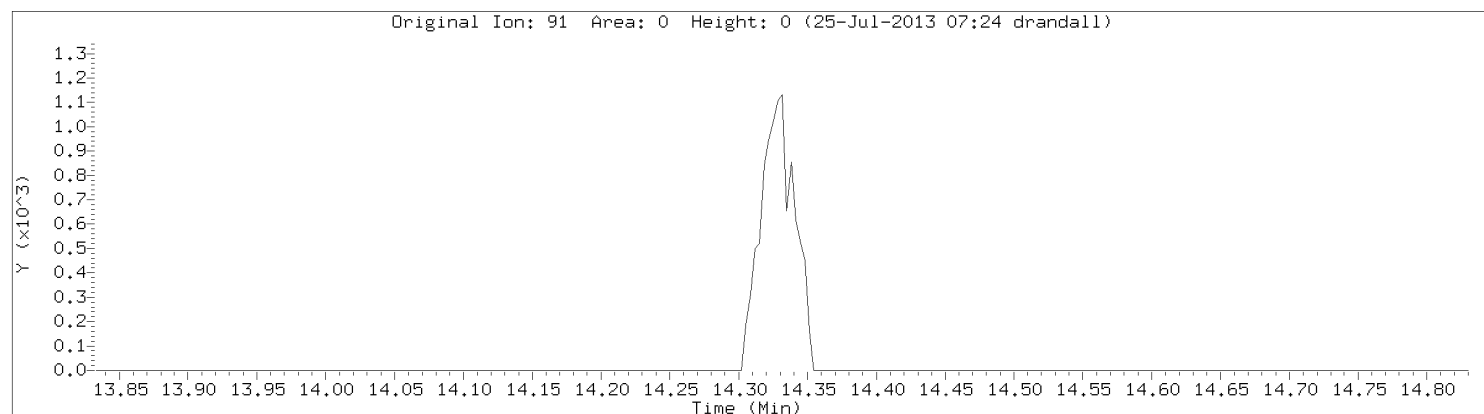


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Lab Sample ID: CAL1



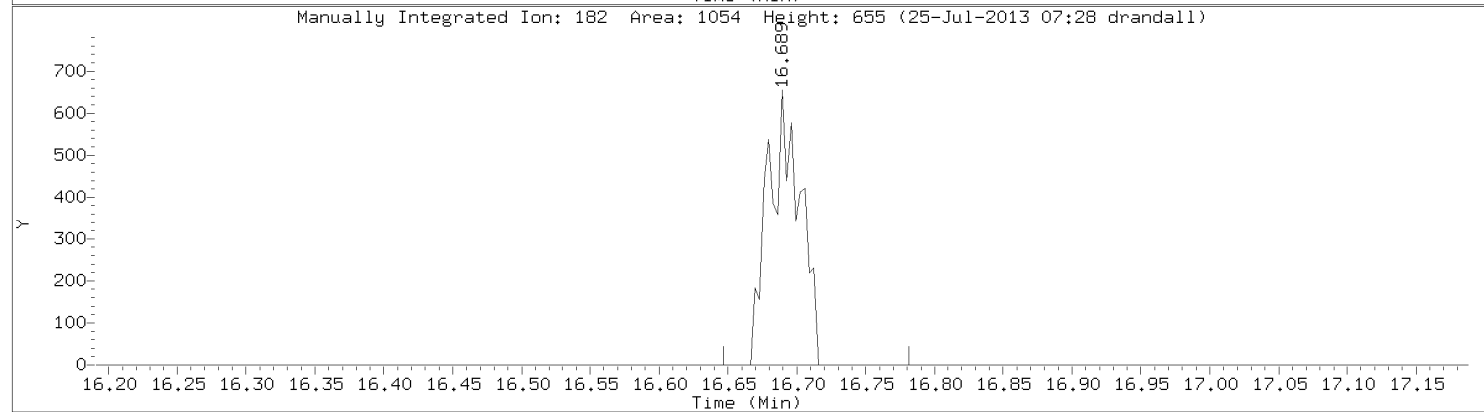
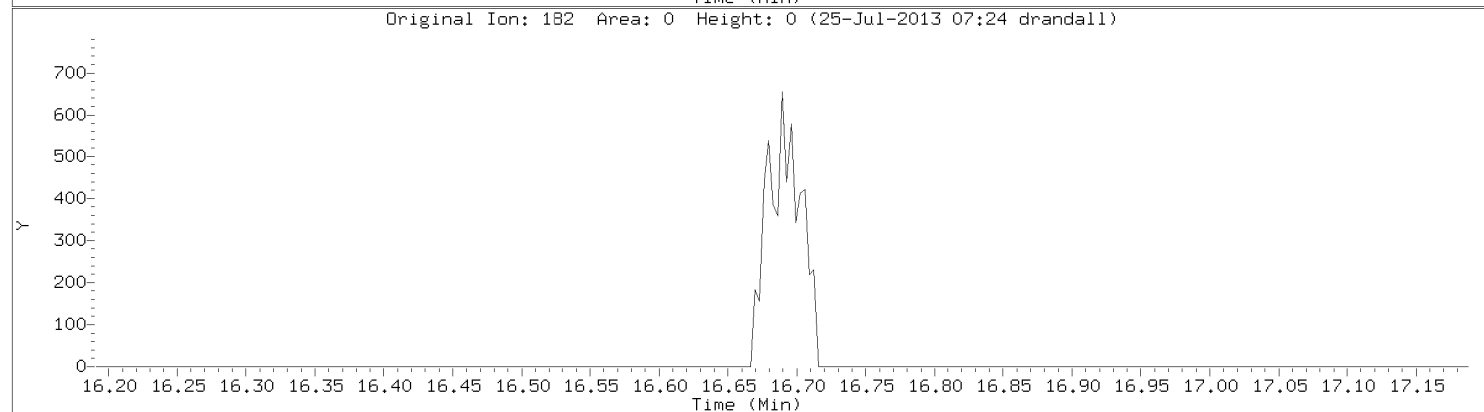
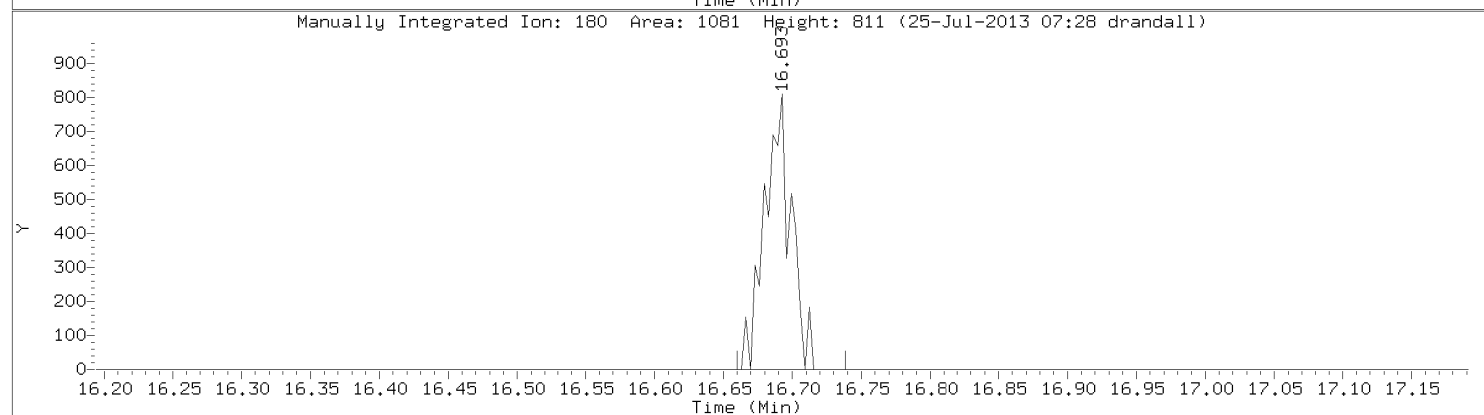
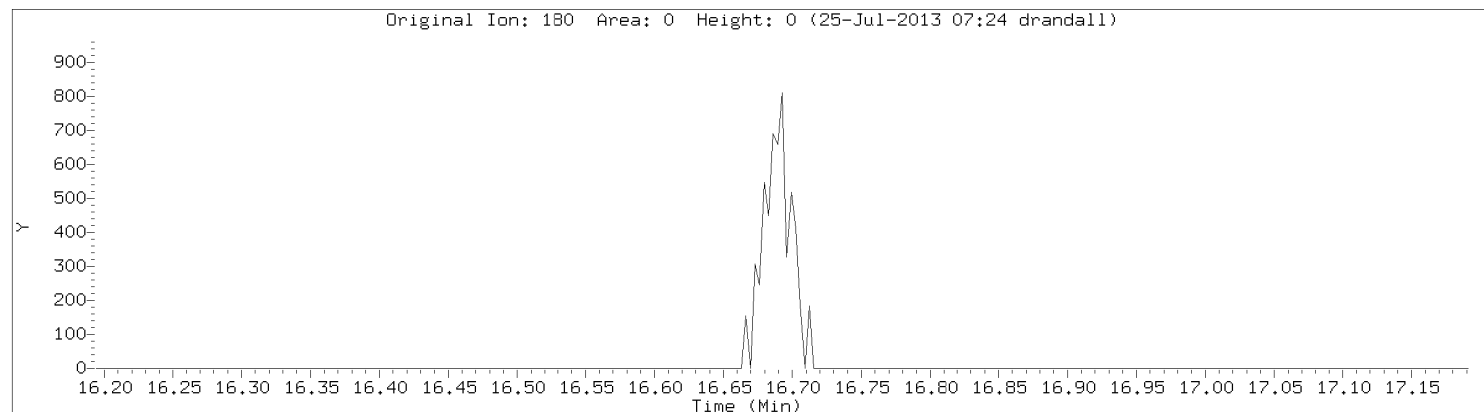
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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

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

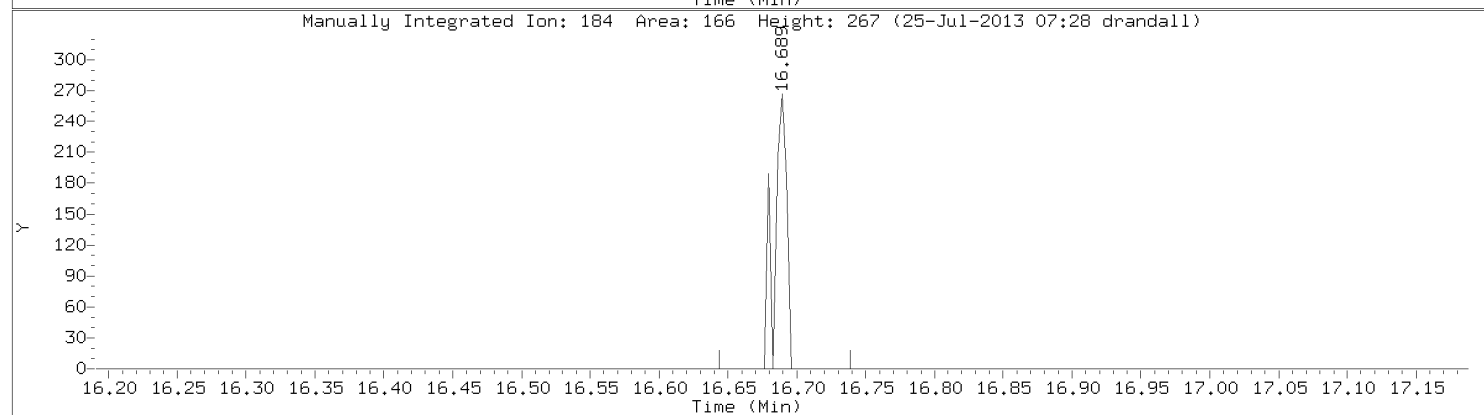
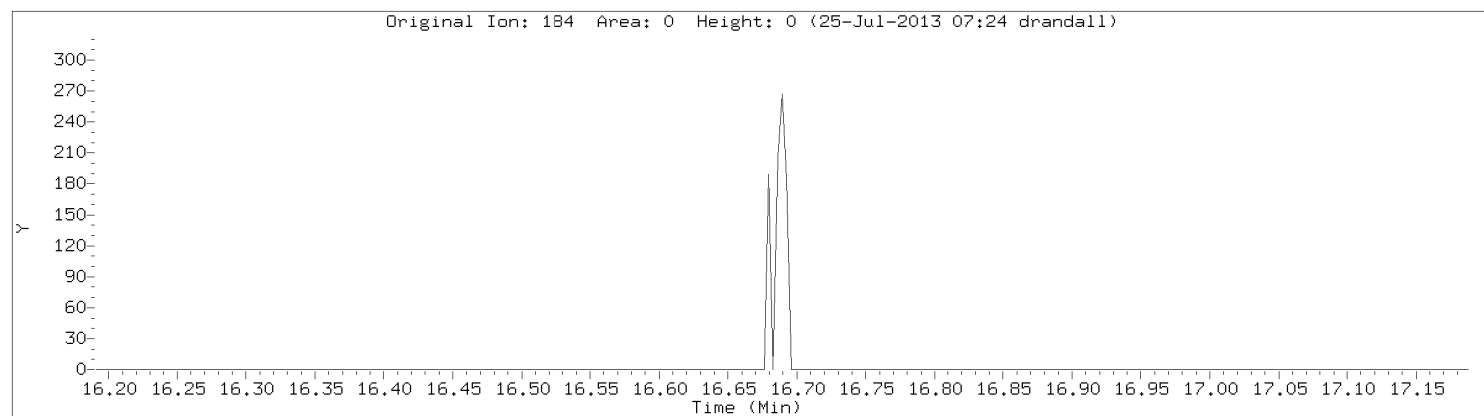


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Instrument: 10airD.i
Lab Sample ID: CAL1

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

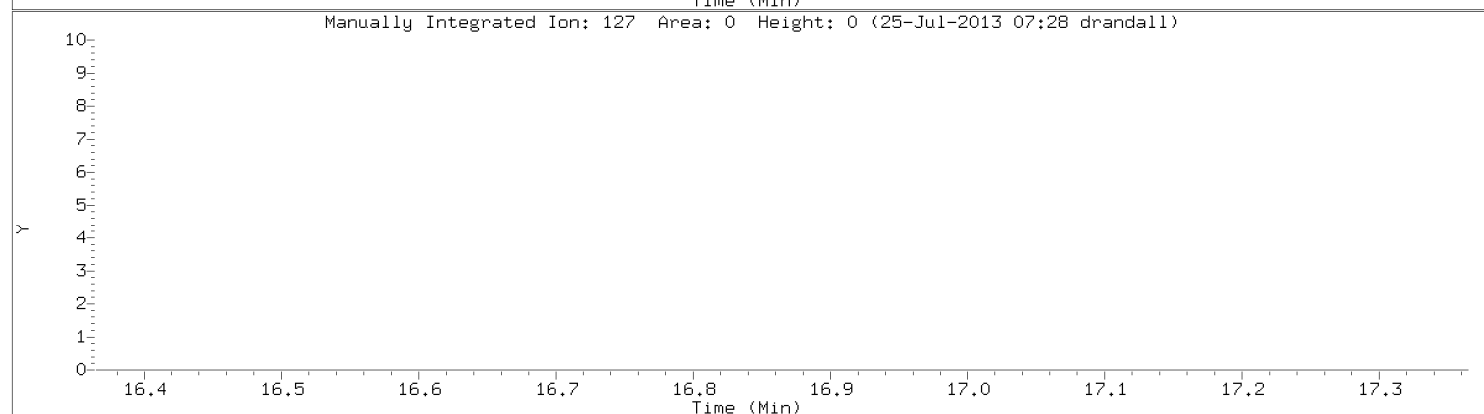
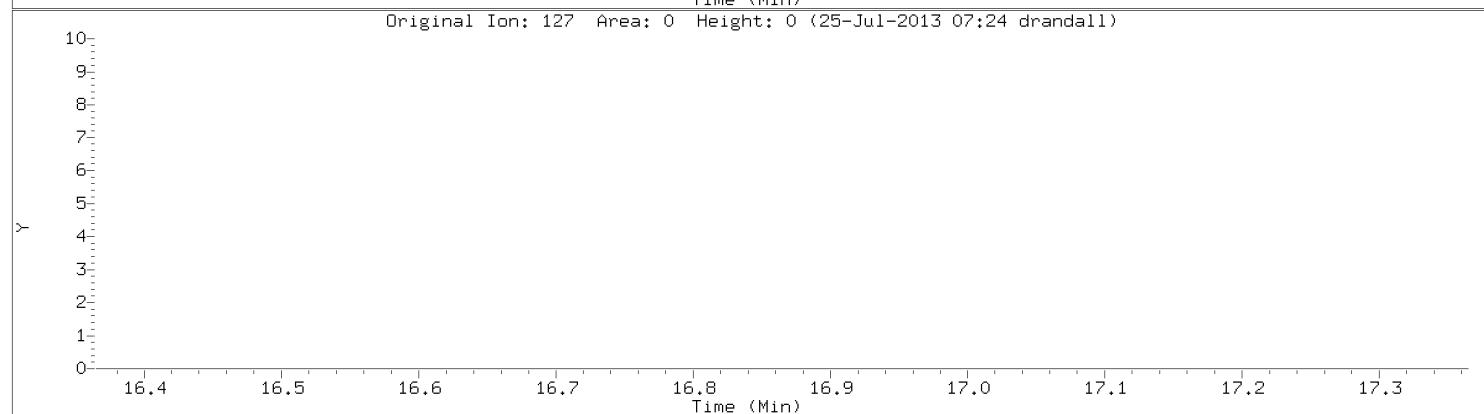
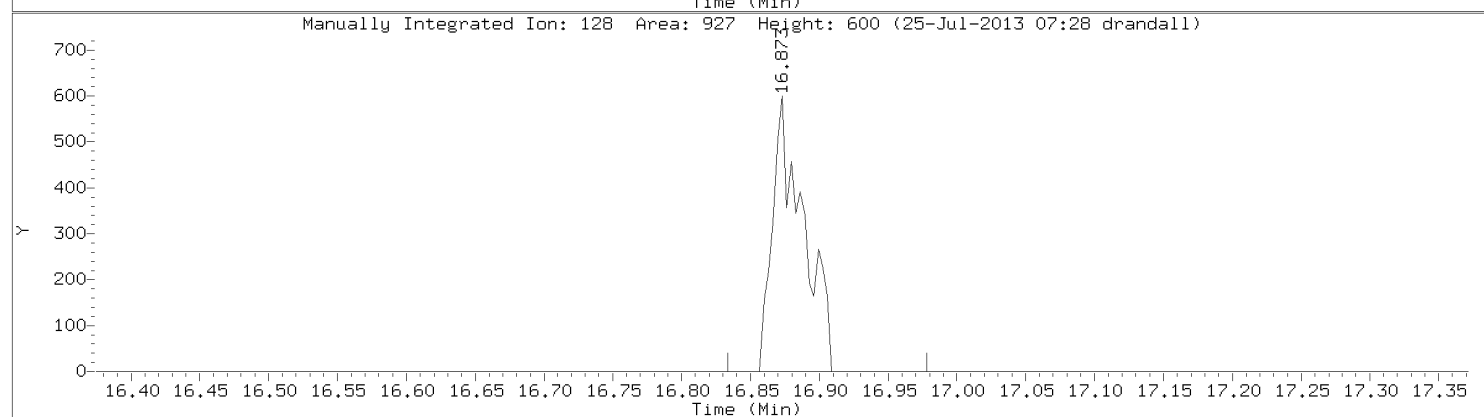
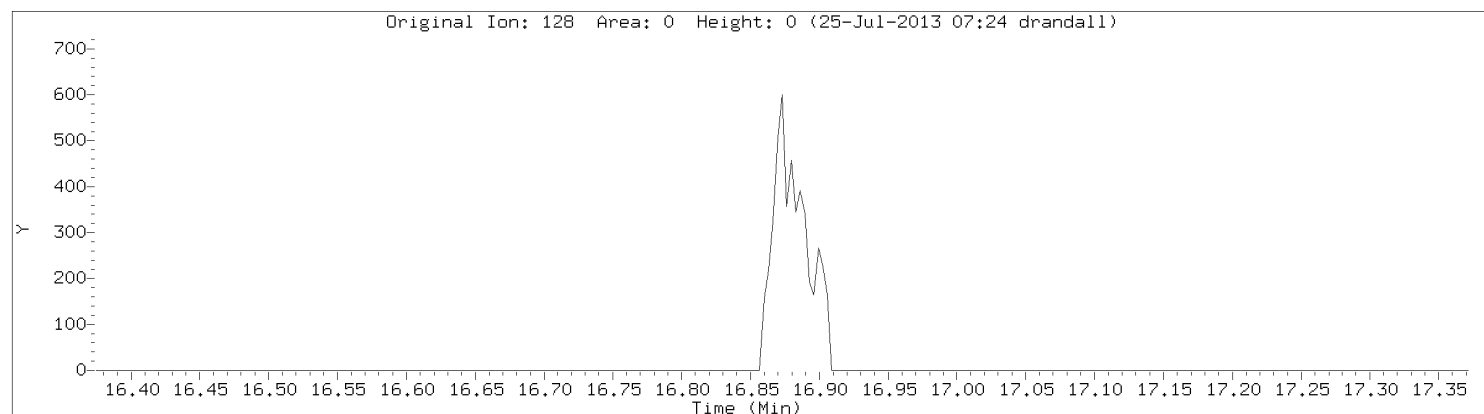


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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1



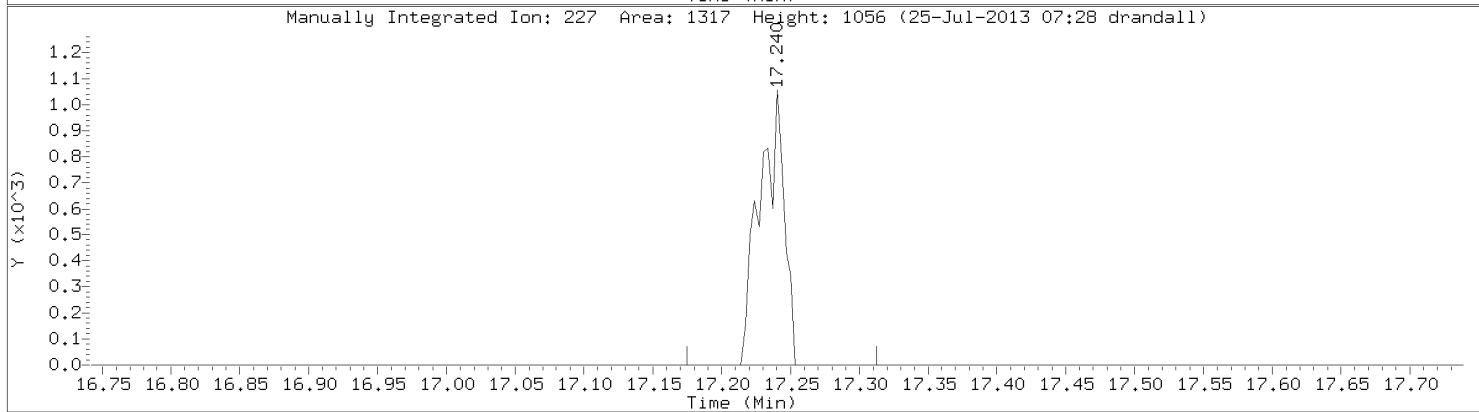
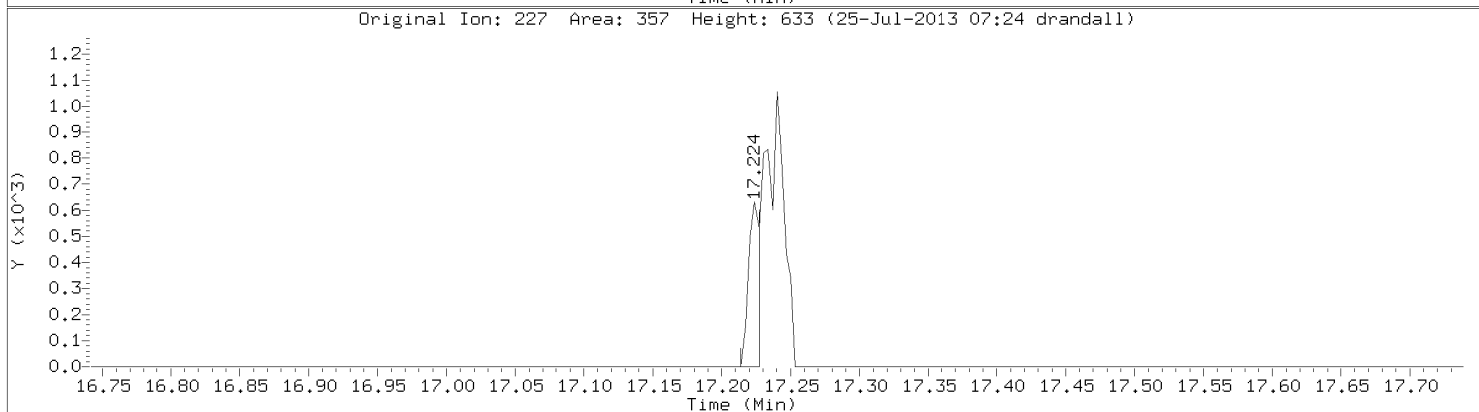
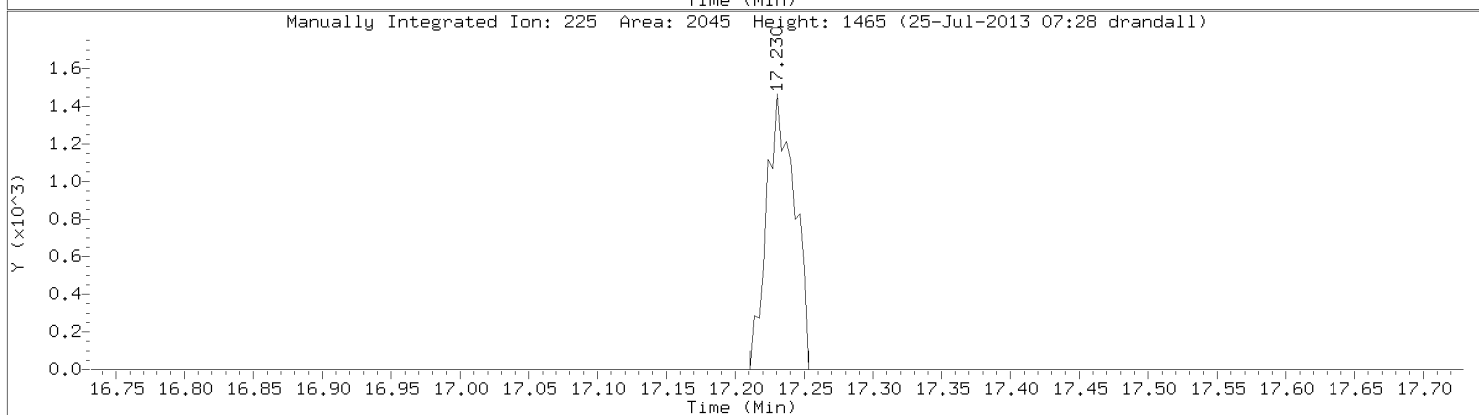
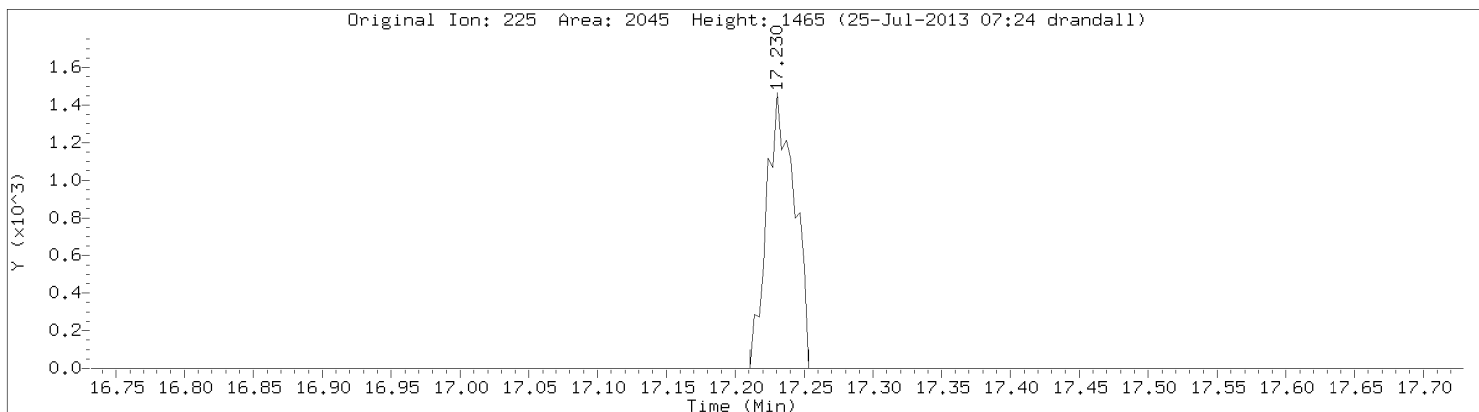
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Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Naphthalene
CAS Number: 91-20-3

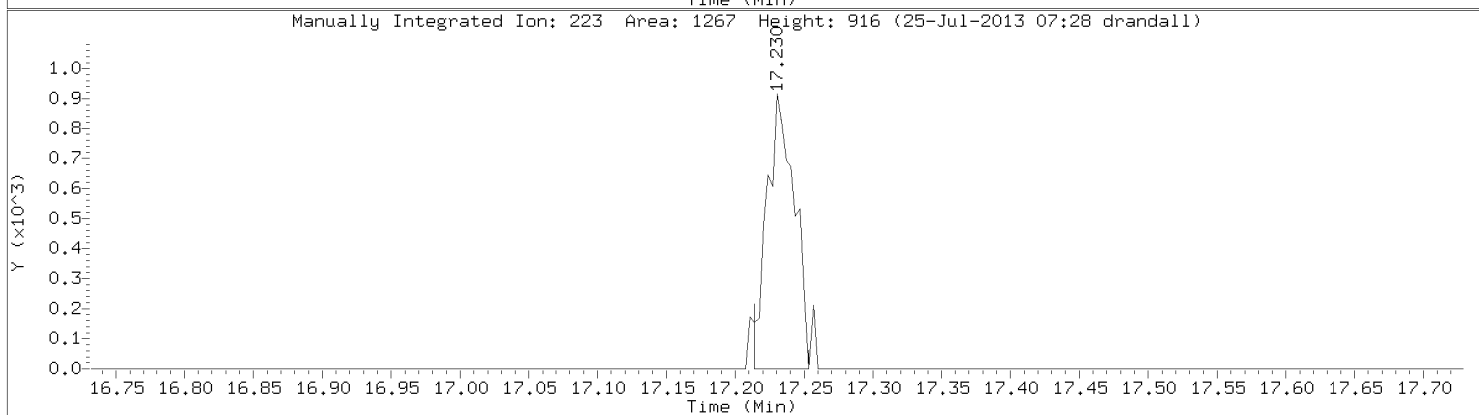
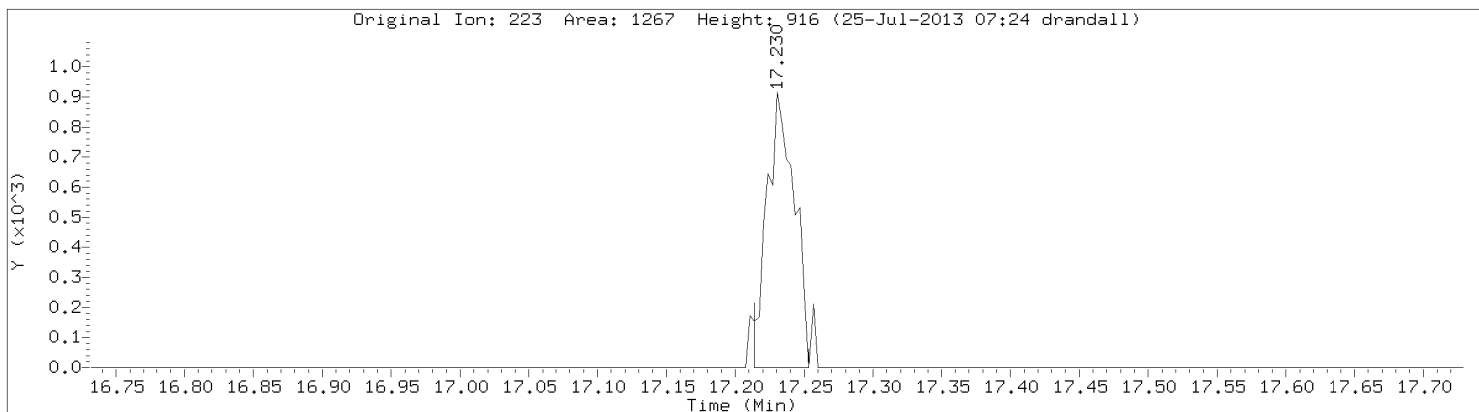


Data File: \\192.168.10.12\chem\10airD.i\072413.b\20504.d
Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1

Compound: Hexachlorobutadiene
CAS Number: 87-68-3



Data File: \\192.168.10.12\chem\10airD.i\072413.b\20504.d
Injection Date: 24-JUL-2013 14:12
Instrument: 10airD.i
Lab Sample ID: CAL1



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072413.b\20505.d
 Lab Smp Id: CAL2
 Inj Date : 24-JUL-2013 14:40
 Operator : DR1 Inst ID: 10airD.i
 Smp Info :
 Misc Info :
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\072413.b\TO15_205-13.m
 Meth Date : 25-Jul-2013 07:24 drandall Quant Type: ISTD
 Cal Date : 24-JUL-2013 14:40 Cal File: 20505.d
 Als bottle: 5 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10AIRPC4

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 MASS	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ppbv)	ON-COL (ppbv)
1 Propylene	41		2.981	2.981	(0.490)	1467	0.20000	0.216 (M)
2 Dichlorodifluoromethane	85		3.008	3.008	(0.494)	15032	0.20000	0.217
3 Dichlorotetrafluoroethane	85		3.106	3.106	(0.510)	12141	0.20000	0.218
4 Chloromethane	50		3.106	3.106	(0.510)	3408	0.20000	0.216 (M)
5 Vinyl chloride	62		3.195	3.195	(0.525)	3428	0.20000	0.218 (M)
6 1,3-Butadiene	54		3.237	3.237	(0.532)	1998	0.20000	0.215
7 Bromomethane	94		3.395	3.395	(0.557)	4265	0.20000	0.215 (M)
8 Chloroethane	64		3.447	3.447	(0.566)	1708	0.20000	0.193 (M)
9 Ethanol	31		3.545	3.545	(0.582)	1973	0.20000	0.201 (M)
10 Vinyl Bromide	106		3.588	3.588	(0.589)	4054	0.20000	0.207
11 Acrolein	56		3.736	3.736	(0.613)	810	0.20000	0.174 (M)
12 Trichlorofluoromethane	101		3.696	3.696	(0.607)	16967	0.20000	0.226
13 Acetone	43		3.778	3.778	(0.620)	8098	0.20000	0.215 (M)
14 Isopropyl Alcohol	45		3.788	3.788	(0.622)	5073	0.20000	0.205 (M)
15 1,1-Dichloroethene	61		3.975	3.975	(0.653)	6984	0.20000	0.209
16 Acrylonitrile	53		4.031	4.031	(0.662)	1826	0.20000	0.195 (M)
17 Tert Butyl Alcohol	59		4.005	4.005	(0.658)	7957	0.20000	0.173 (M)
18 Freon 113	101		4.031	4.031	(0.662)	10925	0.20000	0.218
19 Methylene chloride	49		4.093	4.093	(0.672)	5560	0.20000	0.233 (M)
20 Allyl Chloride	76		4.110	4.110	(0.675)	1465	0.20000	0.181 (M)
21 Carbon Disulfide	76		4.228	4.228	(0.694)	12924	0.20000	0.208
22 trans-1,2-dichloroethene	96		4.421	4.421	(0.726)	4482	0.20000	0.208
23 Methyl Tert Butyl Ether	73		4.474	4.474	(0.735)	8724	0.20000	0.166 (M)

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
24 Vinyl Acetate	43		4.601	4.601	(0.756)	6380	0.20000	0.173 (M)	
25 1,1-Dichloroethane	63		4.582	4.582	(0.752)	7995	0.20000	0.214	
\$ 26 Hexane-d14 (S)	66		4.697	4.697	(0.771)	278149	10.0000	10.1	
27 Methyl Ethyl Ketone	72		4.815	4.815	(0.791)	1505	0.20000	0.174 (M)	
28 n-Hexane	57		4.811	4.811	(0.790)	5371	0.20000	0.205	
29 cis-1,2-Dichloroethene	96		4.982	4.982	(0.818)	3243	0.20000	0.182	
30 Ethyl Acetate	43		5.028	5.028	(0.826)	3382	0.20000	0.169 (M)	
31 Chloroform	83		5.116	5.116	(0.840)	9236	0.20000	0.199 (M)	
32 Tetrahydrofuran	42		5.359	5.359	(0.880)	899	0.20000	0.108 (M)	
33 1,1,1-Trichloroethane	97		5.592	5.592	(0.918)	9240	0.20000	0.185 (M)	
34 1,2-Dichloroethane	62		5.615	5.615	(0.922)	6522	0.20000	0.189 (M)	
35 Benzene	78		5.877	5.877	(0.965)	6919	0.20000	0.160	
36 Carbon tetrachloride	117		5.900	5.900	(0.969)	10431	0.20000	0.195	
37 Cyclohexane	56		5.910	5.910	(0.970)	2029	0.20000	0.130 (M)	
* 38 1,4-Difluorobenzene	114		6.090	6.090	(1.000)	568909	10.0000		
39 2,2,4-Trimethylpentane	57		6.267	6.267	(1.029)	7149	0.20000	0.148	
40 Heptane	43		6.431	6.431	(1.056)	1829	0.20000	0.124 (M)	
41 1,2-Dichloropropane	63		6.507	6.507	(1.068)	2299	0.20000	0.201 (M)	
42 Trichloroethene	130		6.526	6.526	(1.072)	2666	0.20000	0.158 (M)	
43 1,4-Dioxane	88		6.743	6.743	(1.107)	261	0.20000	0.215 (M)	
44 Bromodichloromethane	83		6.651	6.651	(1.092)	8253	0.20000	0.172	
45 Methyl Isobutyl Ketone	43		7.245	7.245	(1.190)	2363	0.20000	0.112 (M)	
46 cis-1,3-Dichloropropene	75		7.281	7.281	(1.195)	2984	0.20000	0.131 (M)	
47 trans-1,3-Dichloropropene	75		7.773	7.773	(1.276)	2580	0.20000	0.109 (M)	
\$ 48 Toluene-d8 (S)	98		7.841	7.841	(1.288)	381246	10.0000	9.60	
49 Toluene	91		7.927	7.927	(1.302)	7427	0.20000	0.139	
50 1,1,2-Trichloroethane	97		7.943	7.943	(1.304)	3196	0.20000	0.163 (M)	
51 Methyl Butyl Ketone	43		8.268	8.268	(0.853)	1784	0.20000	0.108 (M)	
52 Dibromochloromethane	129		8.556	8.556	(0.883)	5177	0.20000	0.170 (M)	
53 1,2-Dibromoethane	107		8.825	8.825	(0.911)	3897	0.20000	0.155 (M)	
54 Tetrachloroethene	166		8.910	8.910	(0.920)	3660	0.20000	0.157 (M)	
* 55 Chlorobenzene - d5	117		9.688	9.688	(1.000)	179791	10.0000		
56 Chlorobenzene	112		9.737	9.737	(1.005)	5466	0.20000	0.168	
57 Ethyl Benzene	91		10.039	10.039	(1.036)	5838	0.20000	0.112 (M)	
58 m&p-Xylene	91		10.212	10.212	(1.054)	4157	0.20000	0.101 (M)	
59 Bromoform	173		10.652	10.652	(1.100)	4685	0.20000	0.148 (M)	
60 Styrene	104		10.701	10.701	(1.105)	2016	0.20000	0.0815 (M)	
61 o-Xylene	91		10.776	10.776	(1.112)	4816	0.20000	0.109 (M)	
62 1,1,2,2-Tetrachloroethane	83		11.091	11.091	(1.145)	5330	0.20000	0.177	
63 Isopropylbenzene	105		11.462	11.462	(1.183)	8781	0.20000	0.144	
64 N-Propylbenzene	91		12.111	12.111	(1.250)	5957	0.20000	0.174 (M)	
65 4-Ethyltoluene	105		12.311	12.311	(1.271)	4151	0.20000	0.0869 (M)	
66 1,3,5-Trimethylbenzene	105		12.423	12.423	(1.282)	4492	0.20000	0.103 (M)	
67 1,2,4-Trimethylbenzene	105		13.016	13.016	(1.344)	3040	0.20000	0.0801 (M)	
68 1,3-Dichlorobenzene	146		13.367	13.367	(1.380)	3029	0.20000	0.114 (M)	
69 Sec- Butylbenzene	105		13.397	13.397	(1.383)	5351	0.20000	0.0947 (M)	
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.449	13.449	(1.388)	62802	10.0000	7.97	
71 Benzyl Chloride	91		13.485	13.485	(1.392)	4461	0.20000	0.121 (M)	
72 1,4-Dichlorobenzene	146		13.495	13.495	(1.393)	4268	0.20000	0.150 (M)	
73 1,2-Dichlorobenzene	146		14.043	14.043	(1.450)	2665	0.20000	0.120 (M)	
74 N-Butylbenzene	91		14.328	14.328	(1.479)	3605	0.20000	0.0846 (M)	
75 1,2,4-Trichlorobenzene	180		16.689	16.689	(1.723)	1682	0.20000	0.113 (M)	
76 Naphthalene	128		16.873	16.873	(1.742)	1699	0.20000	0.0830 (M)	
77 Hexachlorobutadiene	225		17.237	17.237	(1.779)	3393	0.20000	0.170 (M)	

Data File: \\192.168.10.12\chem\10airD.i\072413.b\20505.d
Report Date: 25-Jul-2013 07:30

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\072413.b\20505.d
Report Date: 25-Jul-2013 07:30

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 20505.d
Lab Smp Id: CAL2
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\072413.b\TO15_205-13.m
Misc Info:

Calibration Date: 24-JUL-2013
Calibration Time: 15:36
Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	568909	-1.87
55 Chlorobenzene - d	221404	132842	309966	179791	-18.80

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	-0.00
55 Chlorobenzene - d	9.69	9.36	10.02	9.69	-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\072413.b\20505.D

Date : 24-JUL-2013 14:40

Client ID:

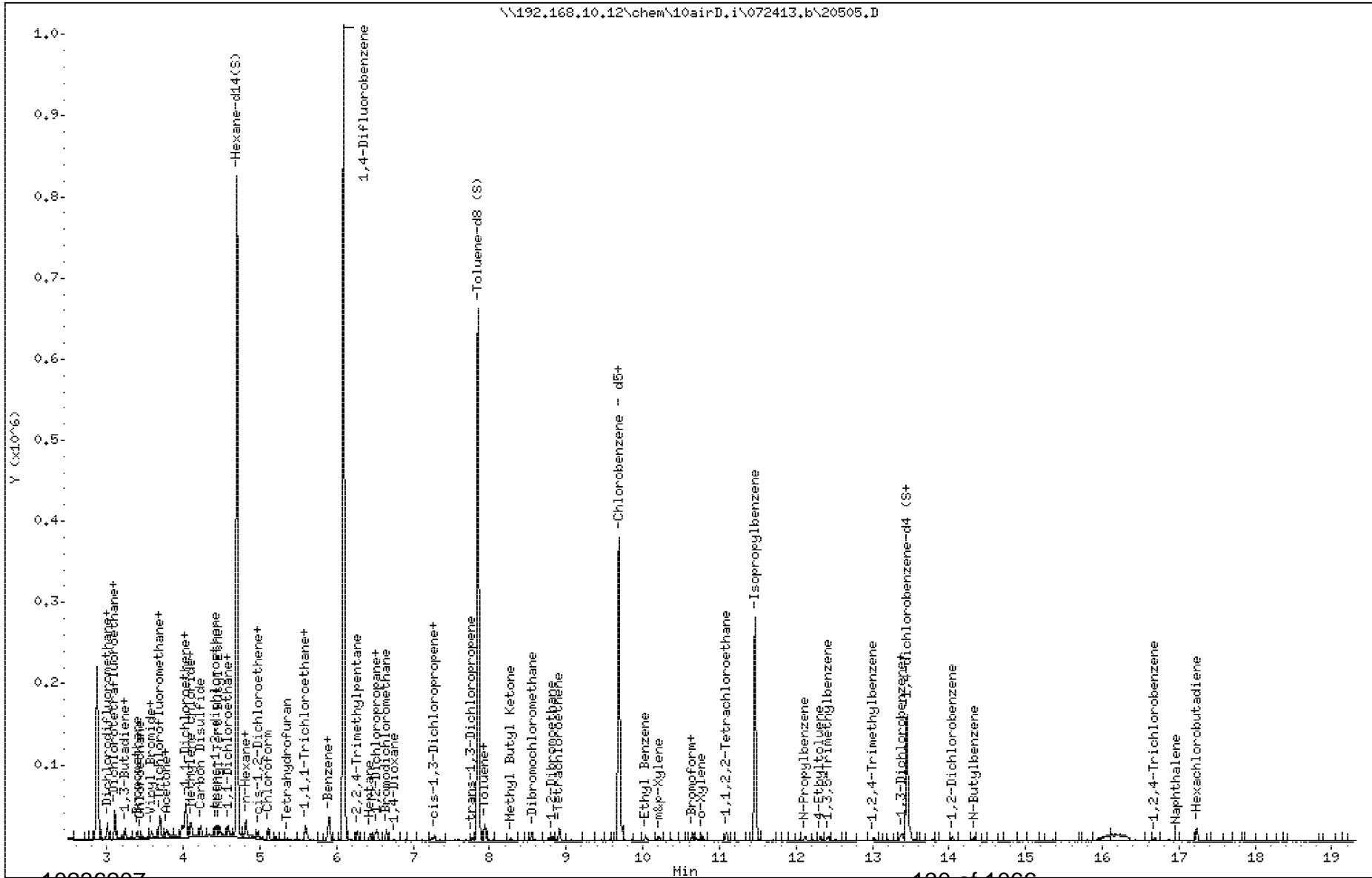
Instrument: 10airD.i

Sample Info:

Operator: DR1

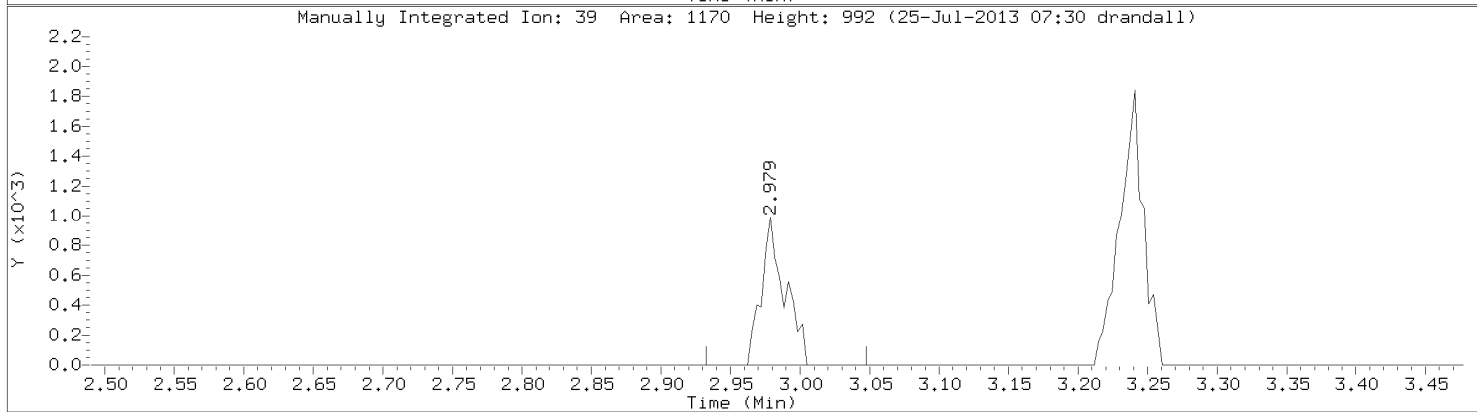
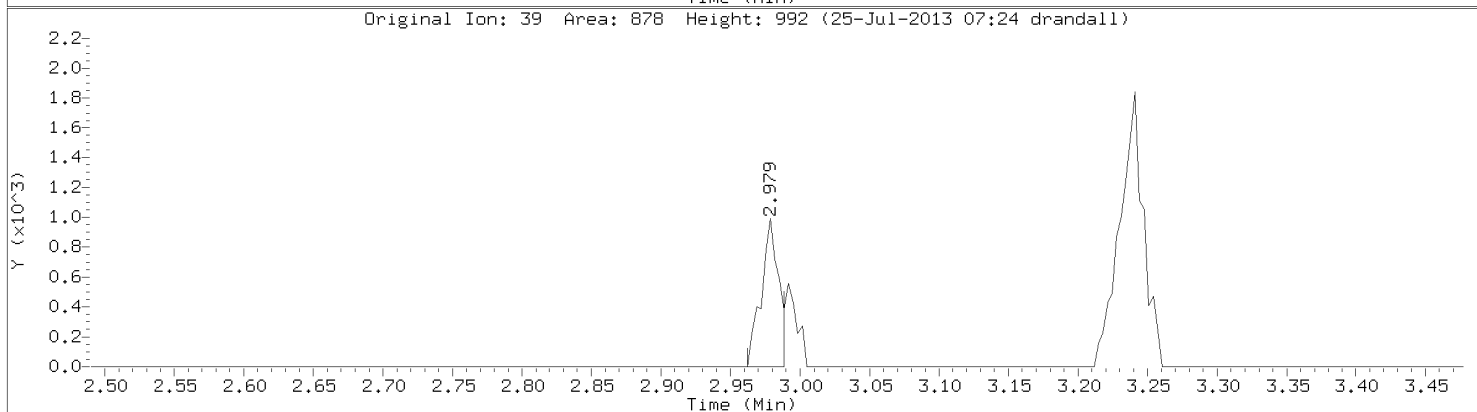
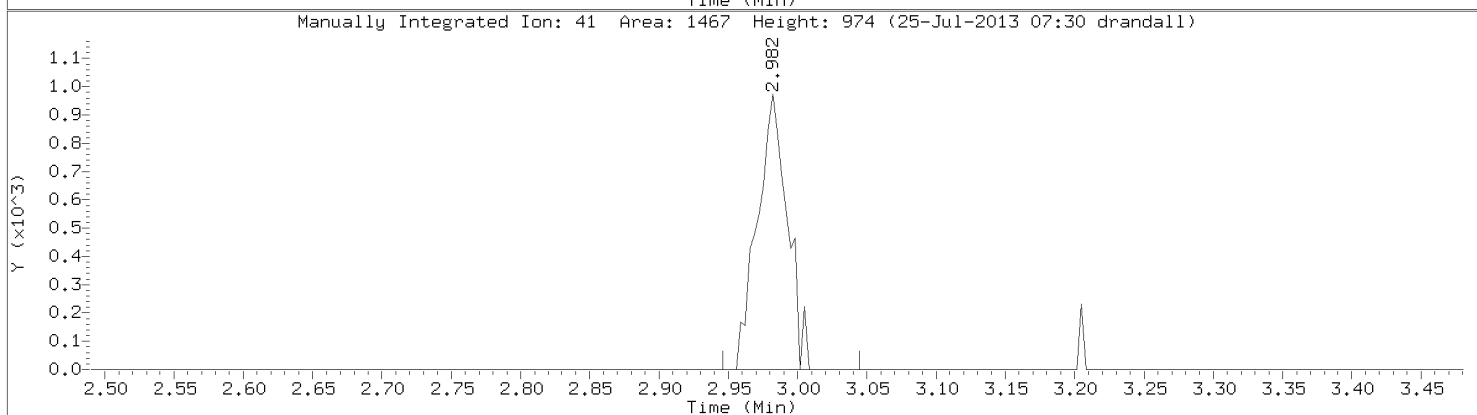
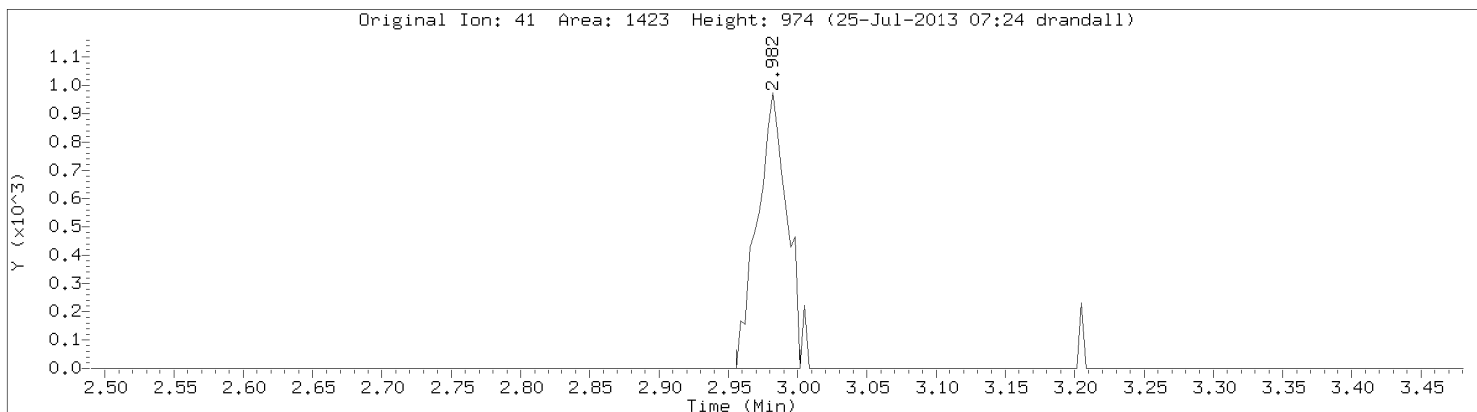
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Column diameter: 0.32



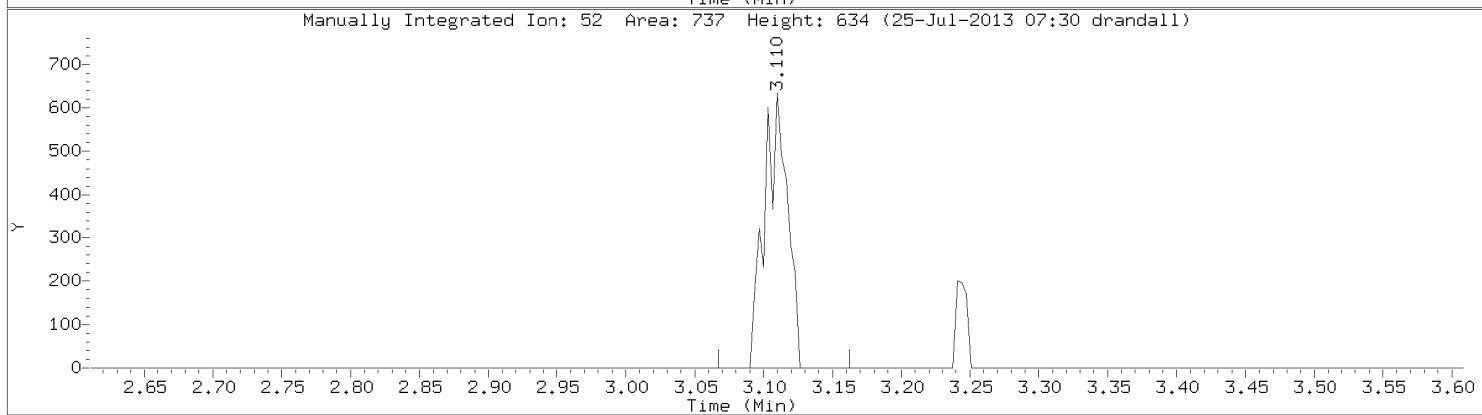
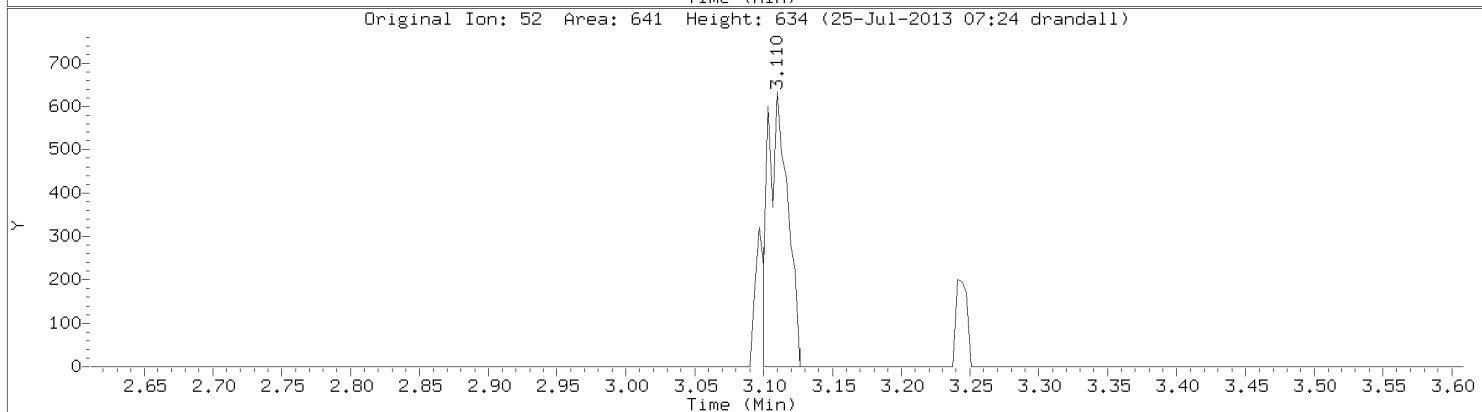
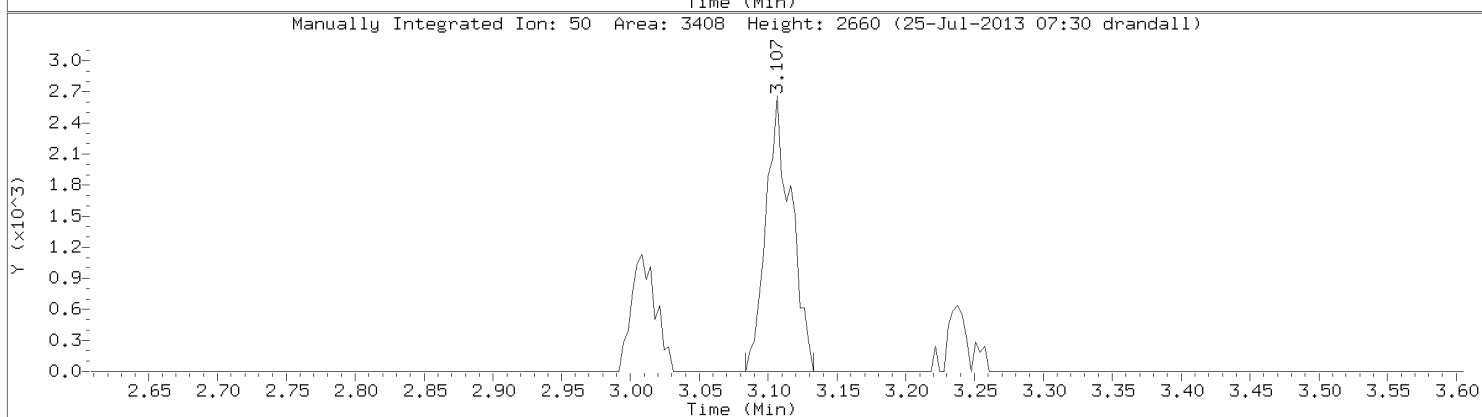
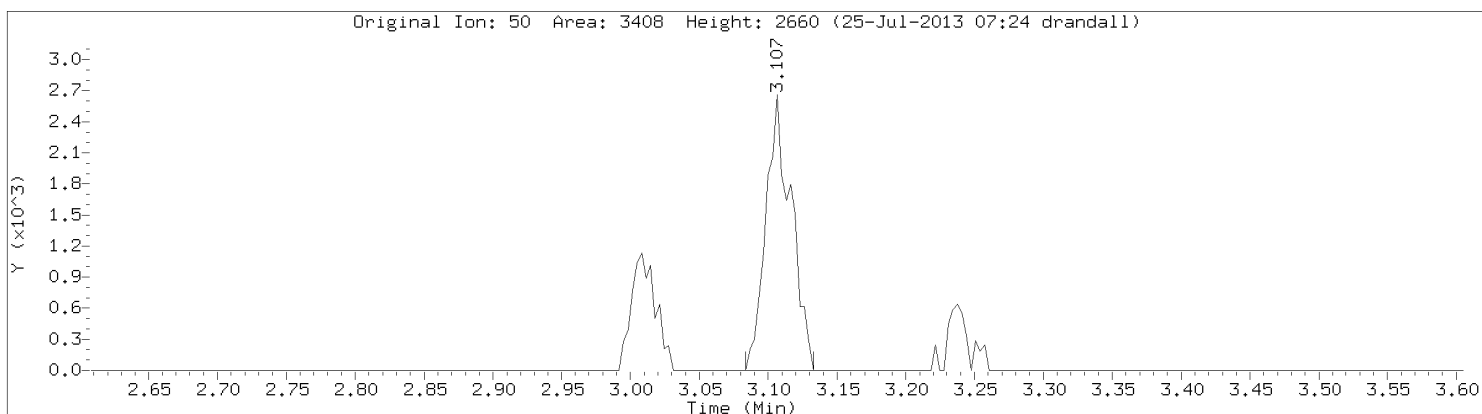
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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Propylene
CAS Number: 76-14-2



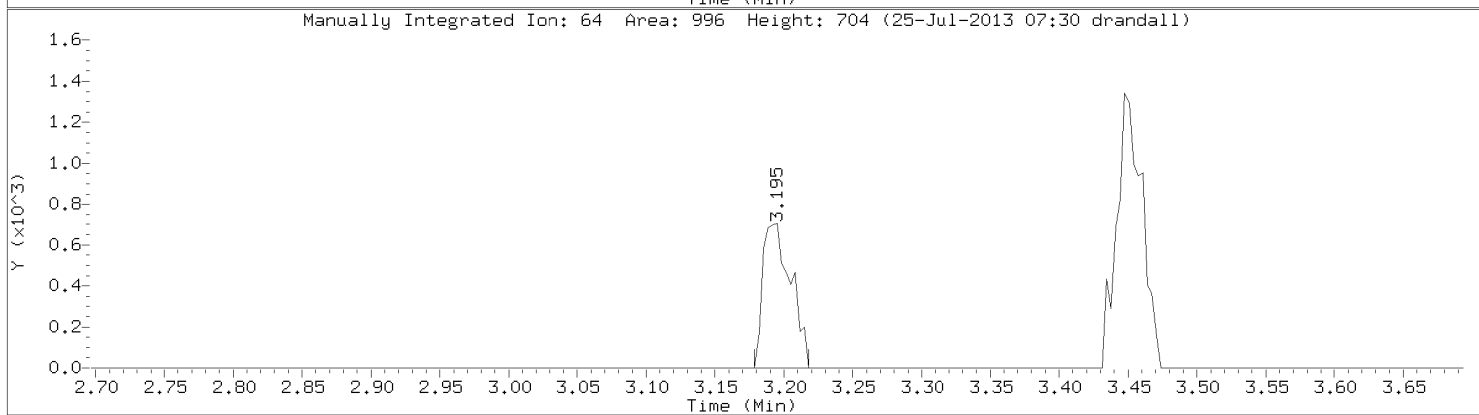
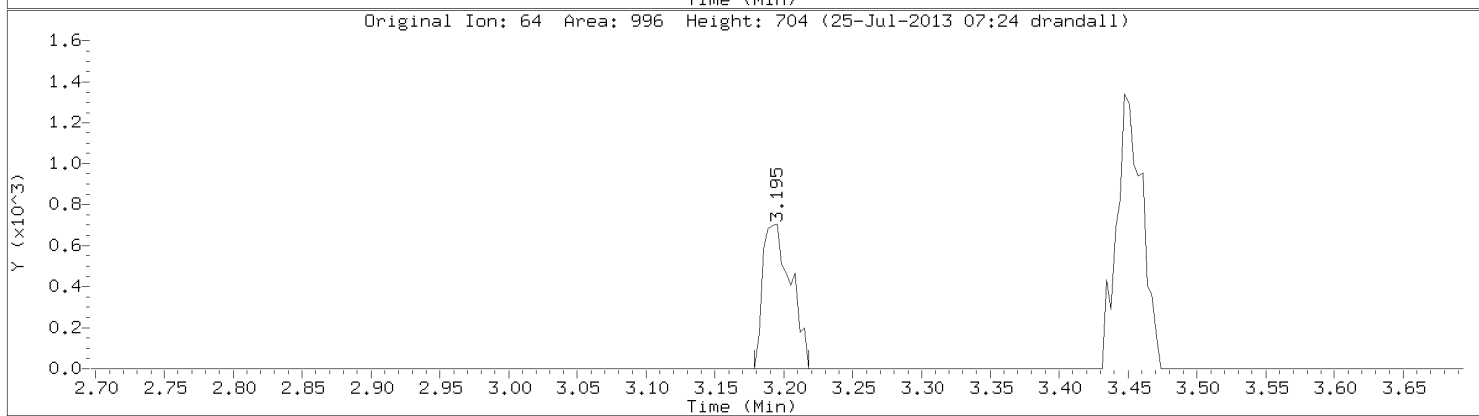
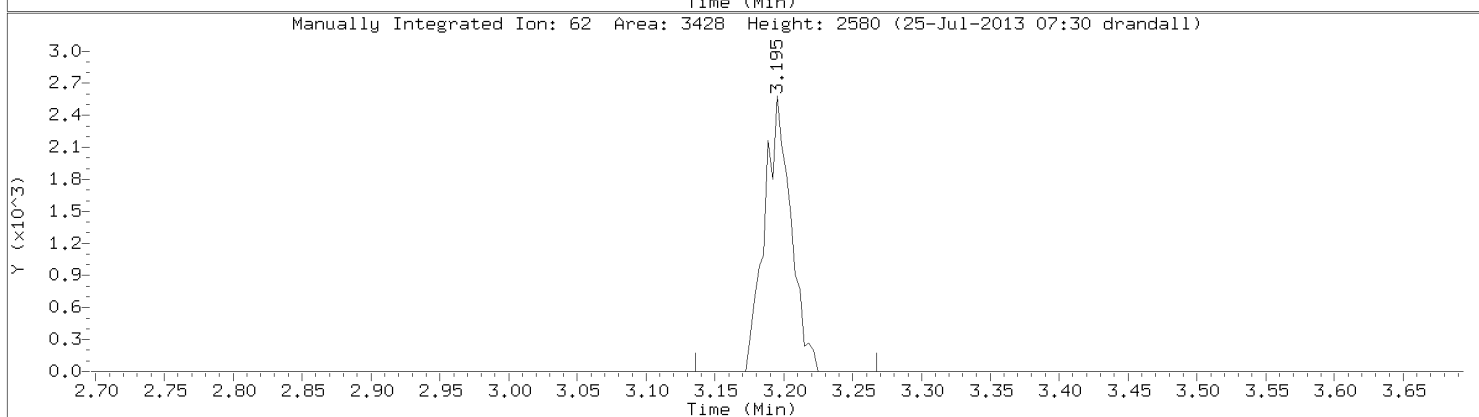
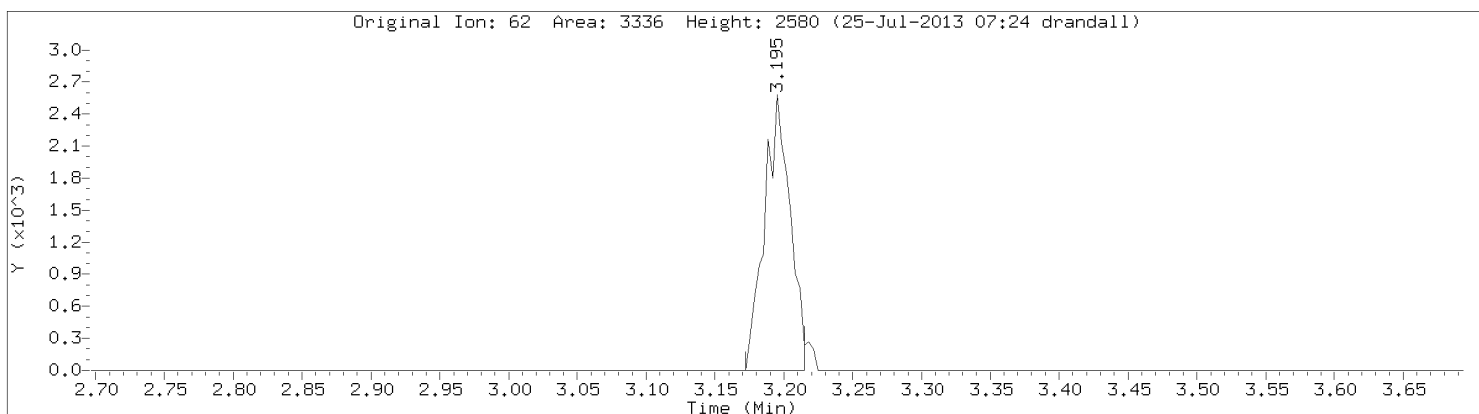
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Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Chloromethane
CAS Number: 74-87-3



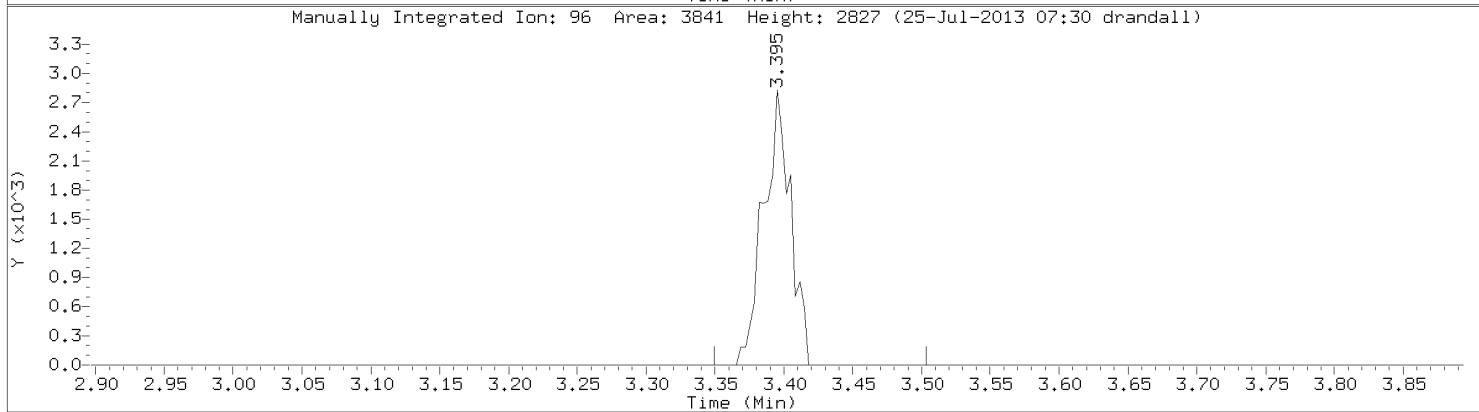
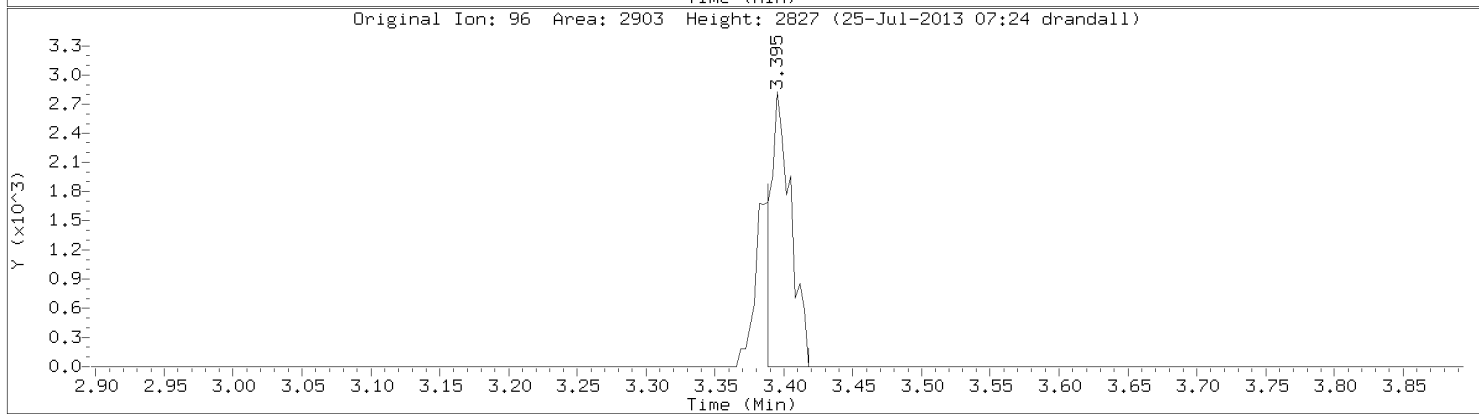
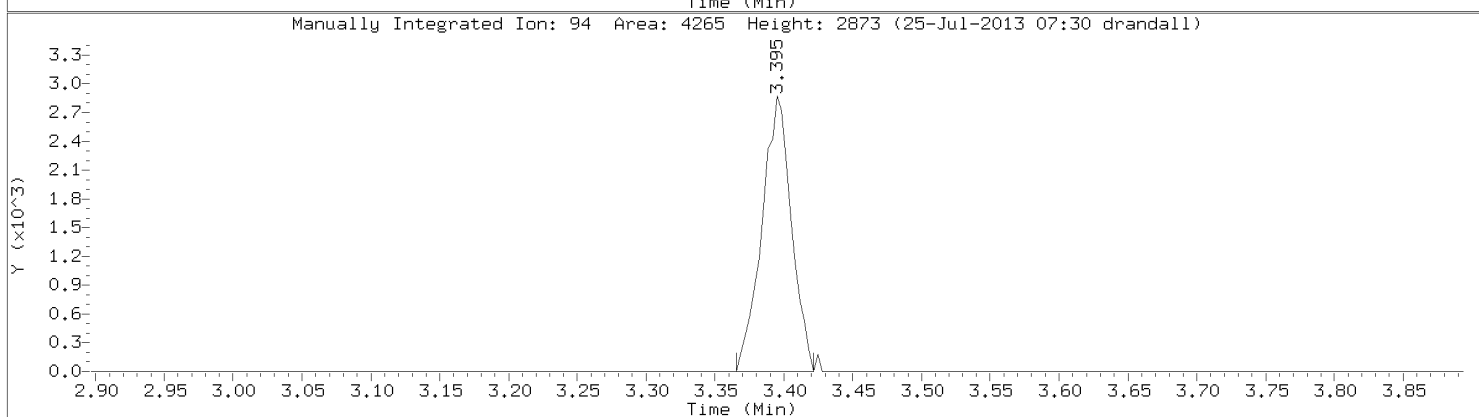
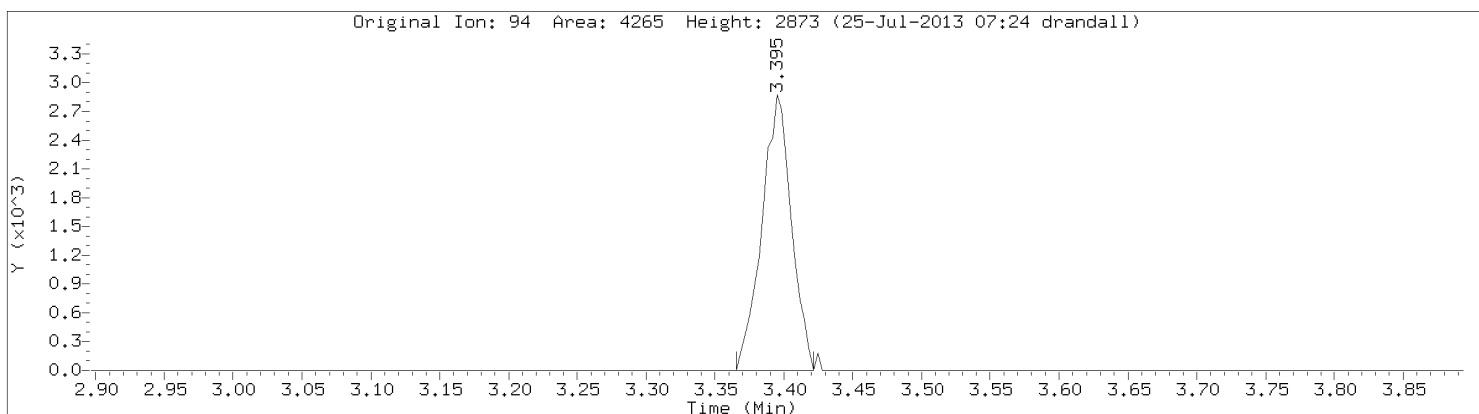
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Instrument: 10airD.i
Lab Sample ID: CAL2

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



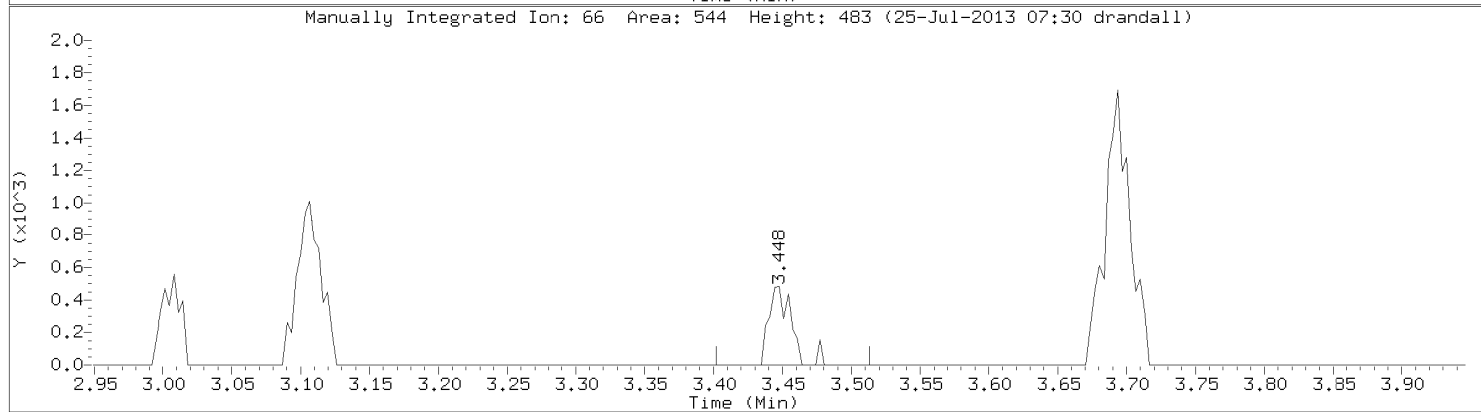
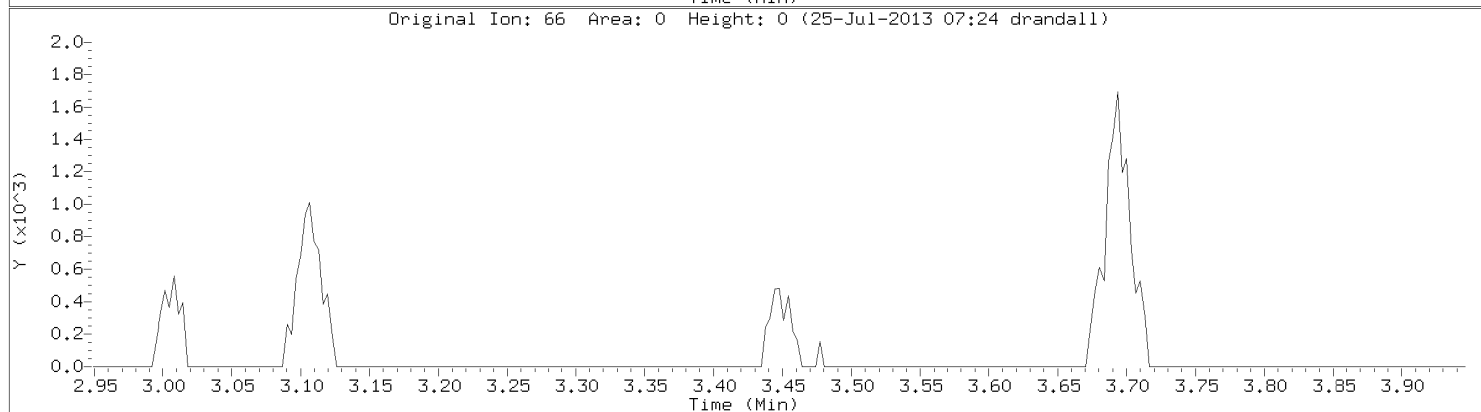
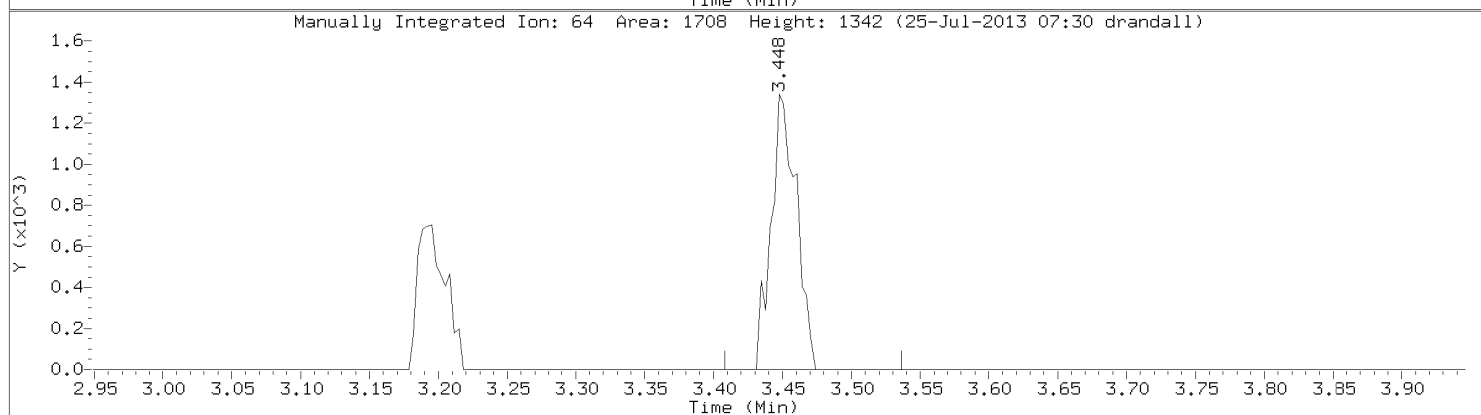
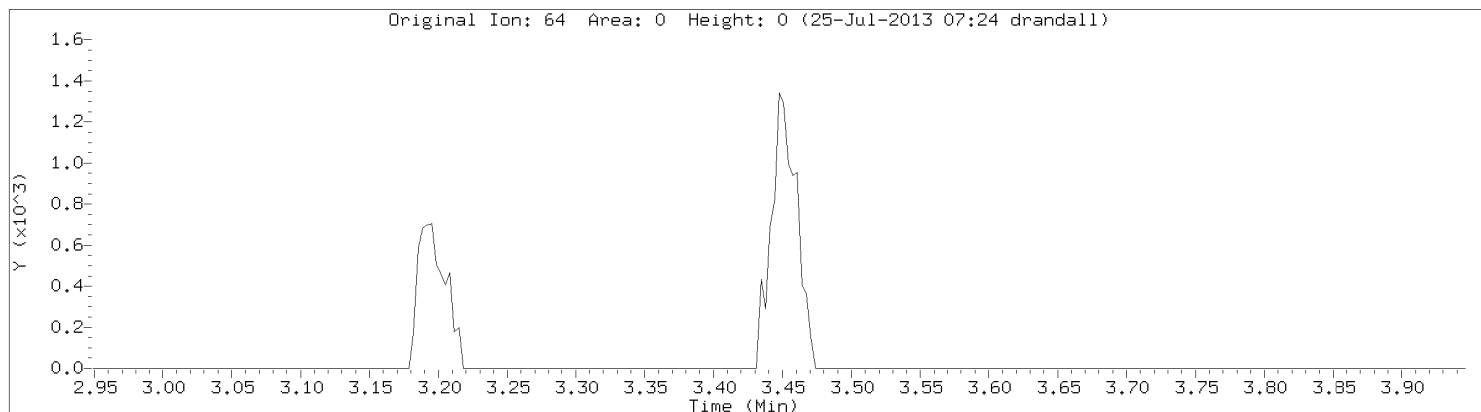
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Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Bromomethane
CAS Number: 74-83-9



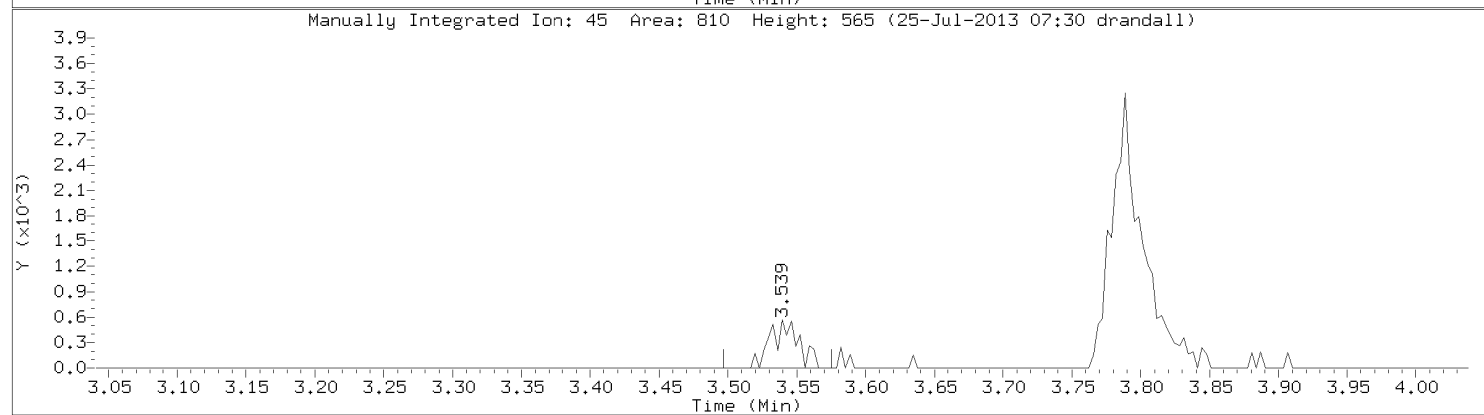
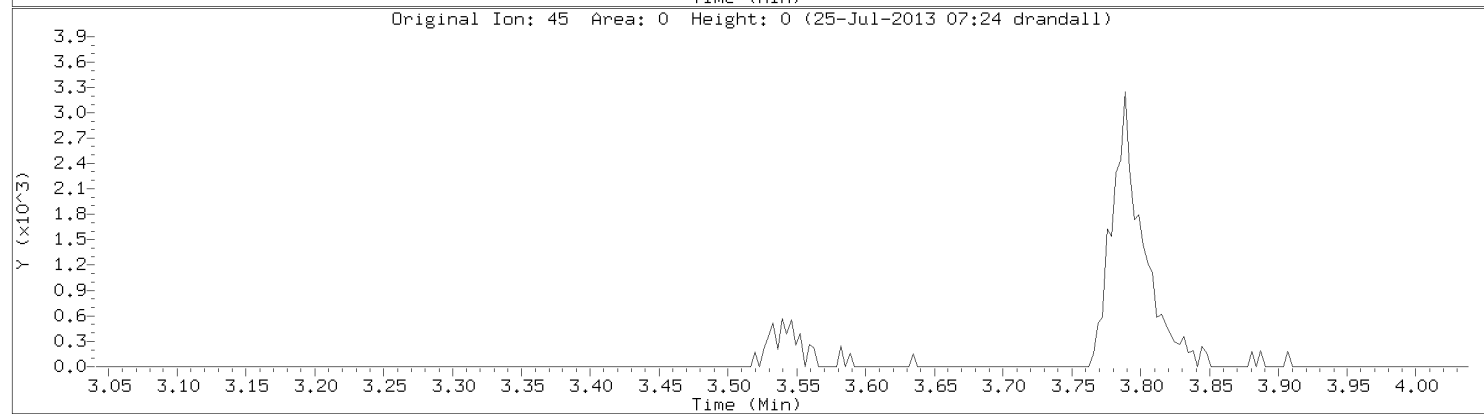
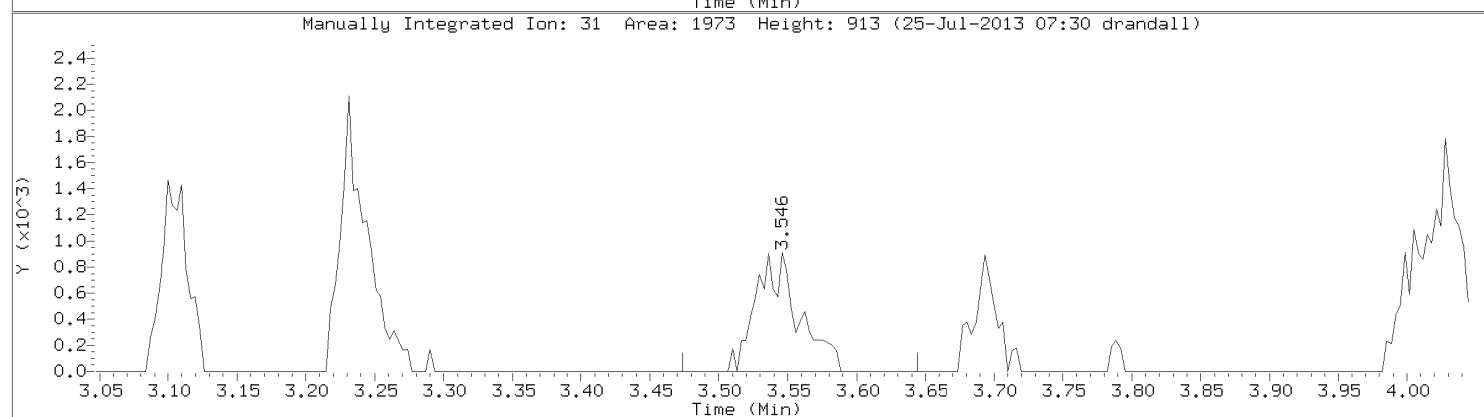
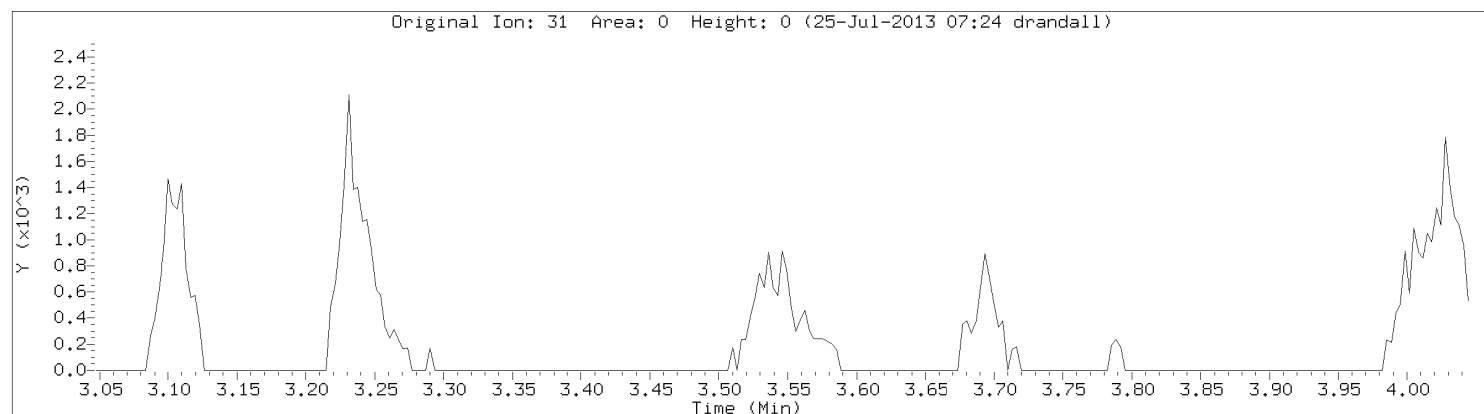
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Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Chloroethane
CAS Number: 75-00-3



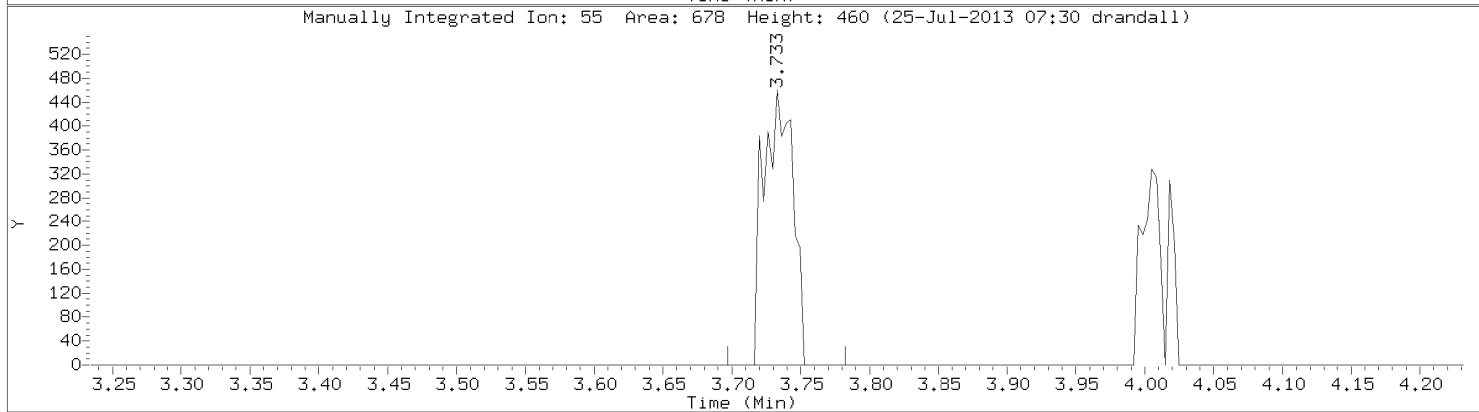
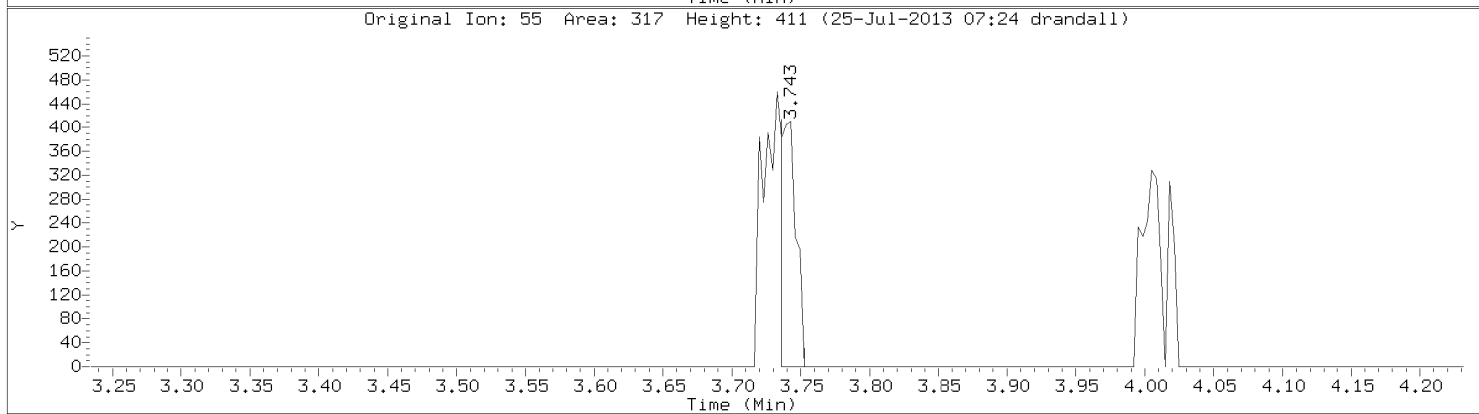
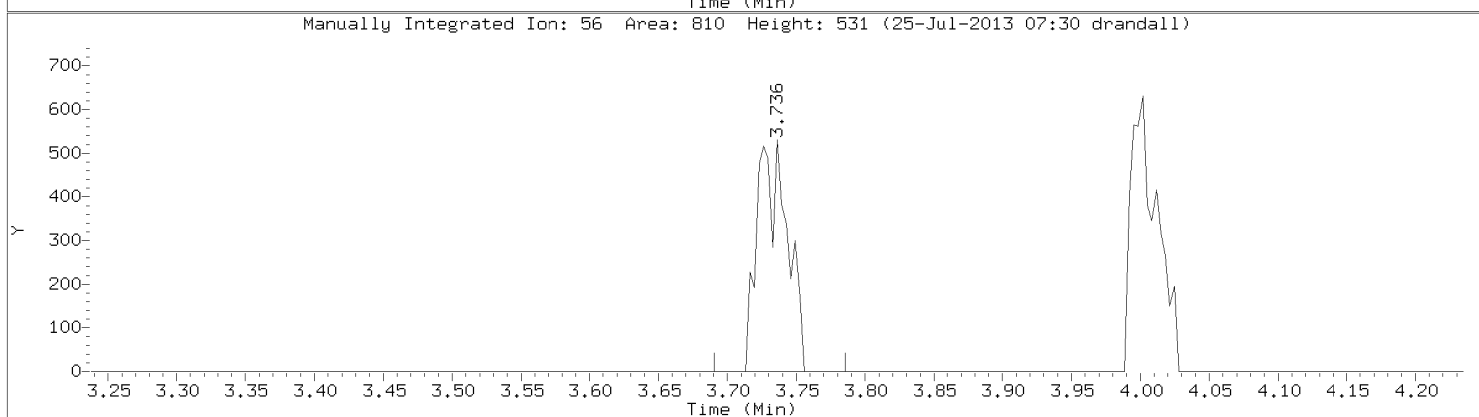
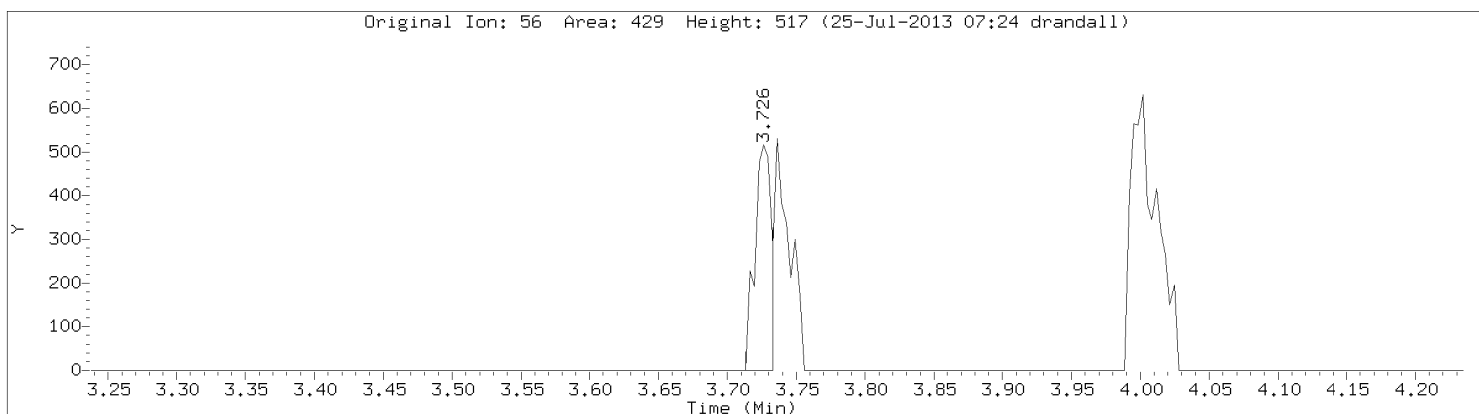
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Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Ethanol
CAS Number: 64-17-5



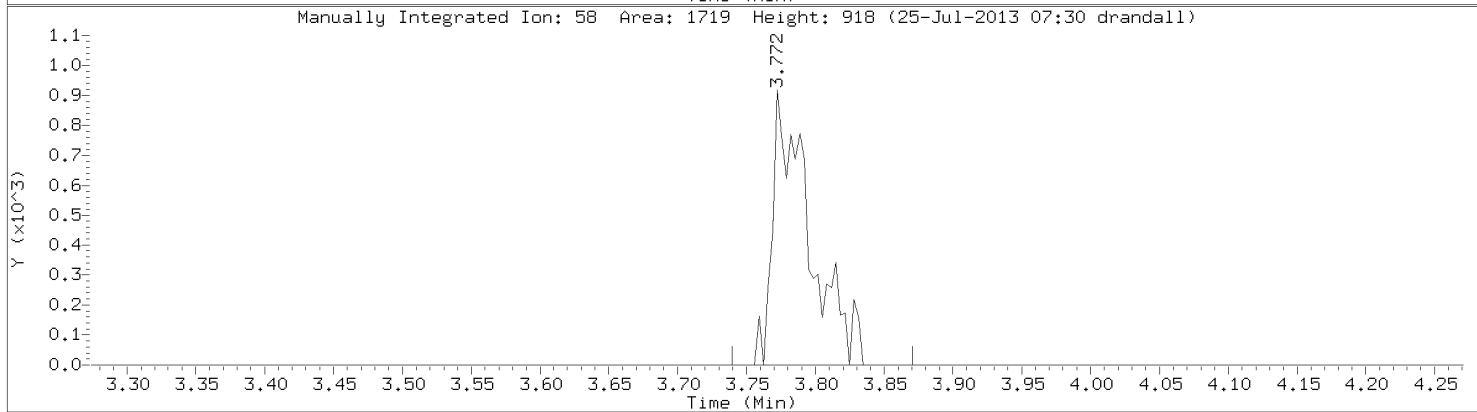
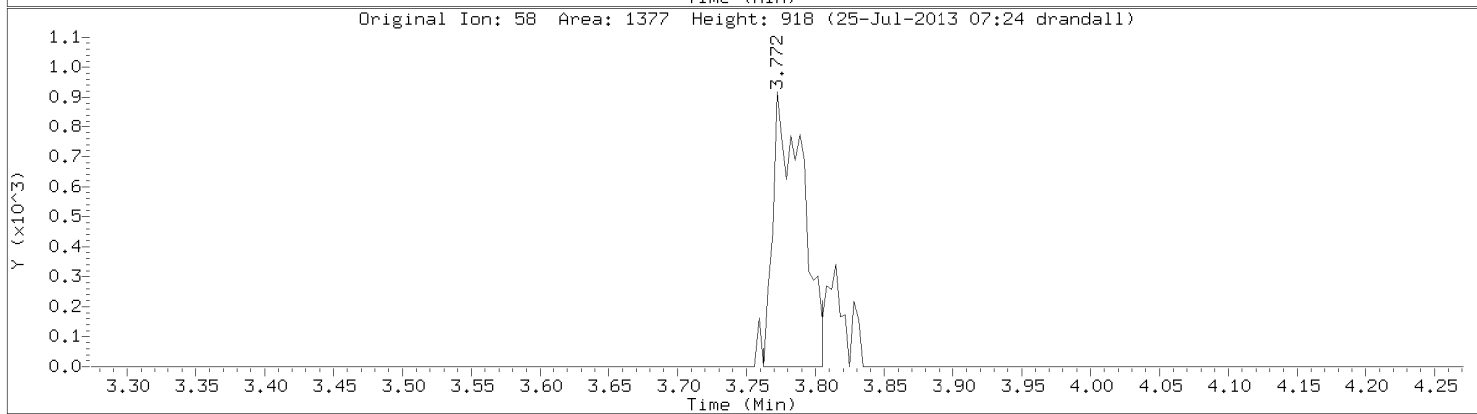
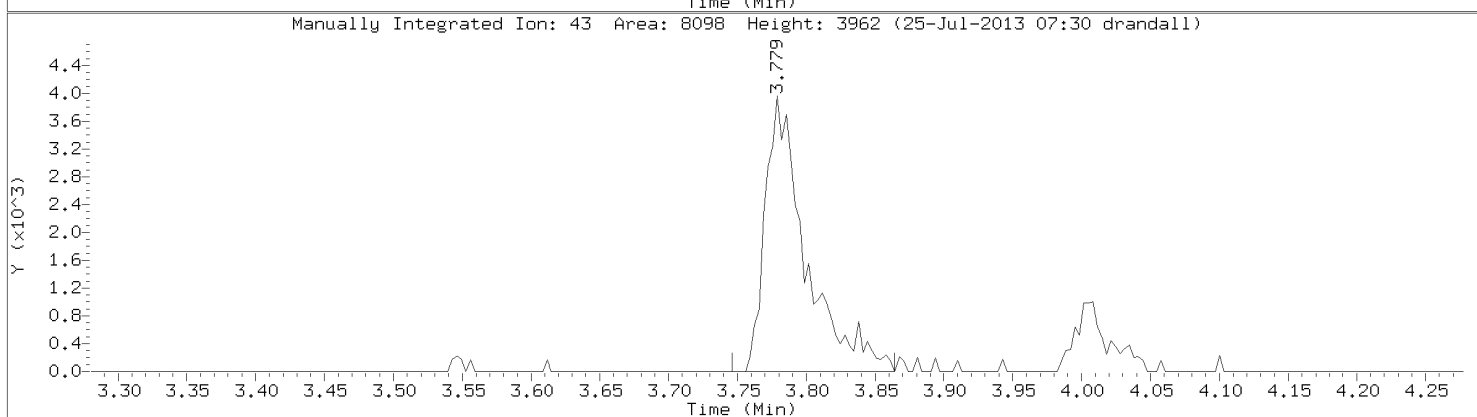
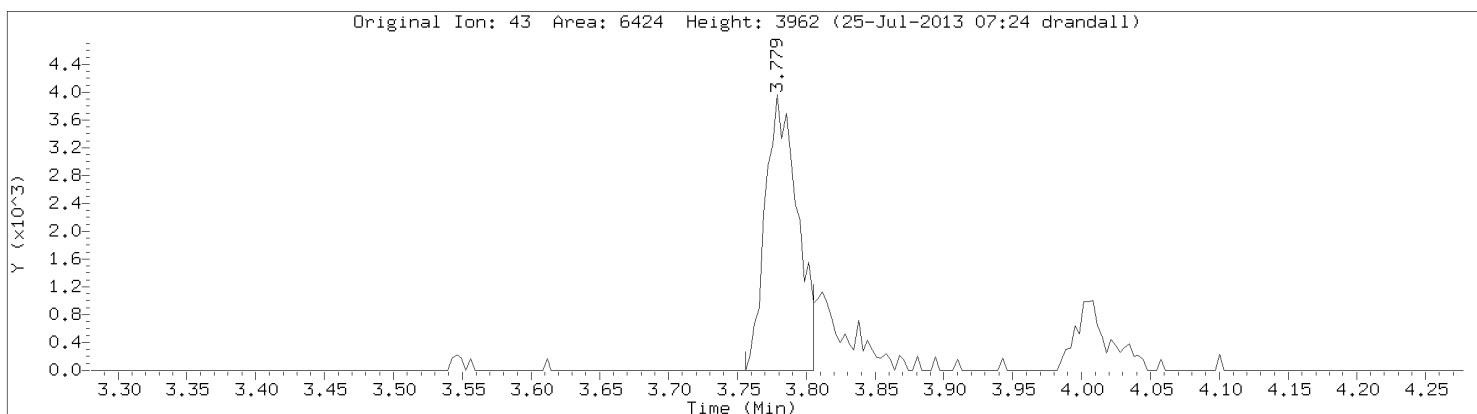
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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Acrolein
CAS Number: 107-02-08



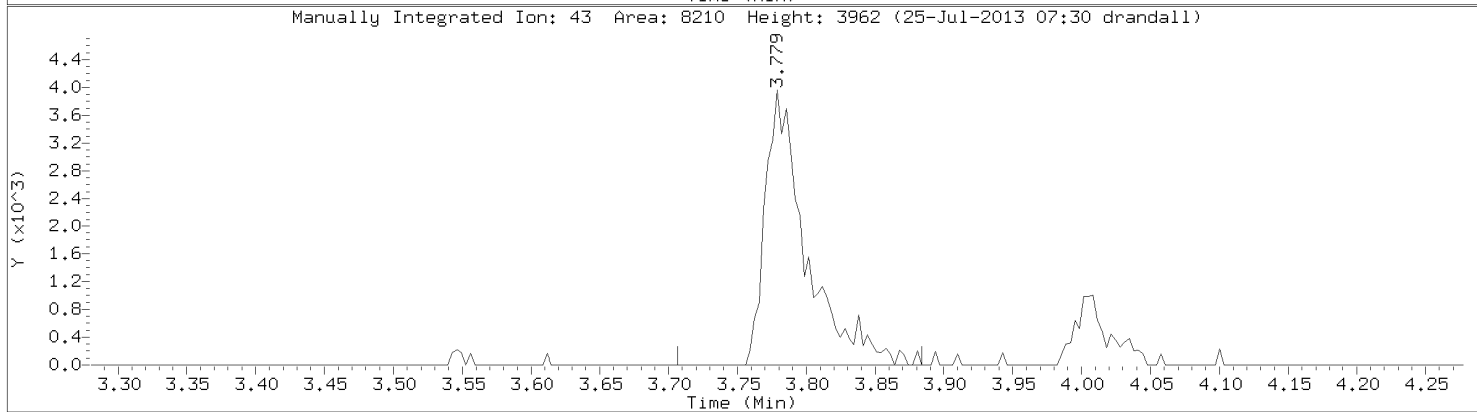
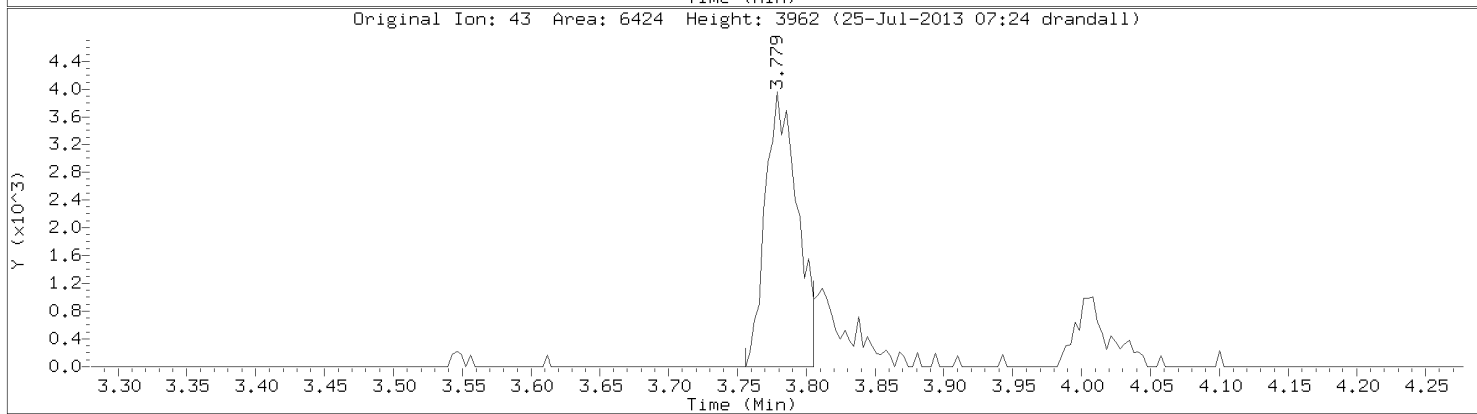
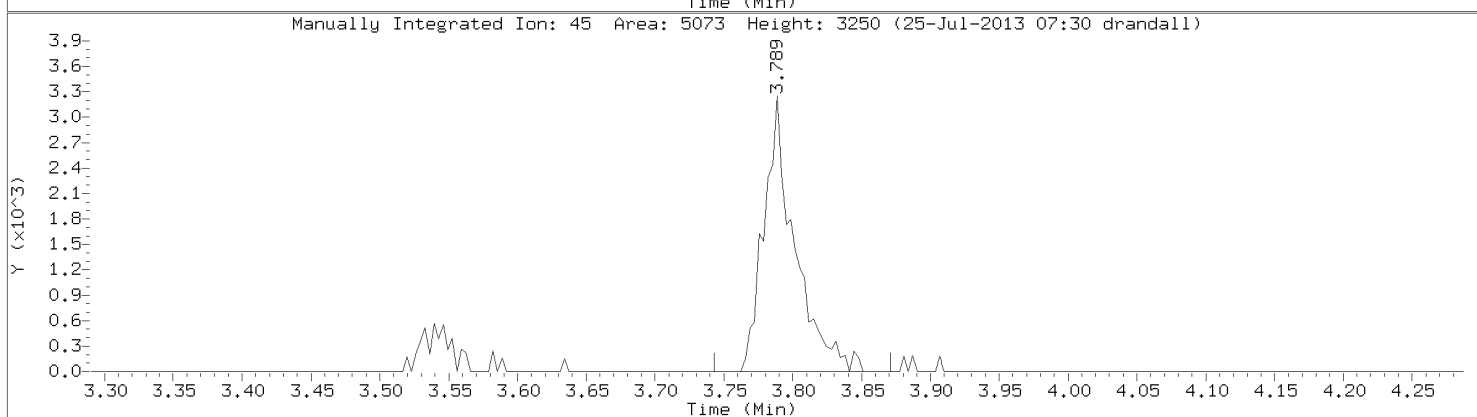
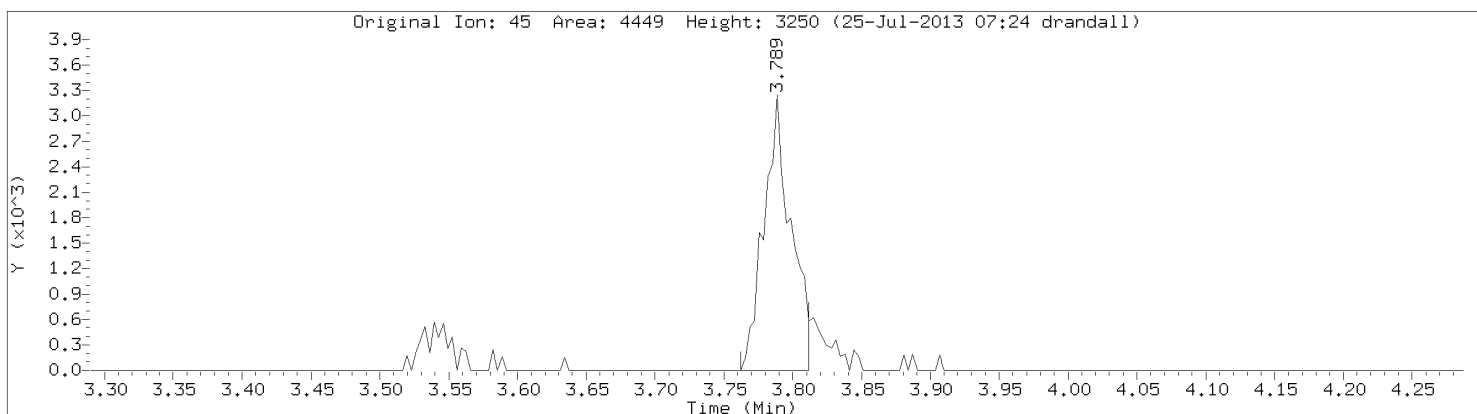
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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Acetone
CAS Number: 67-64-1



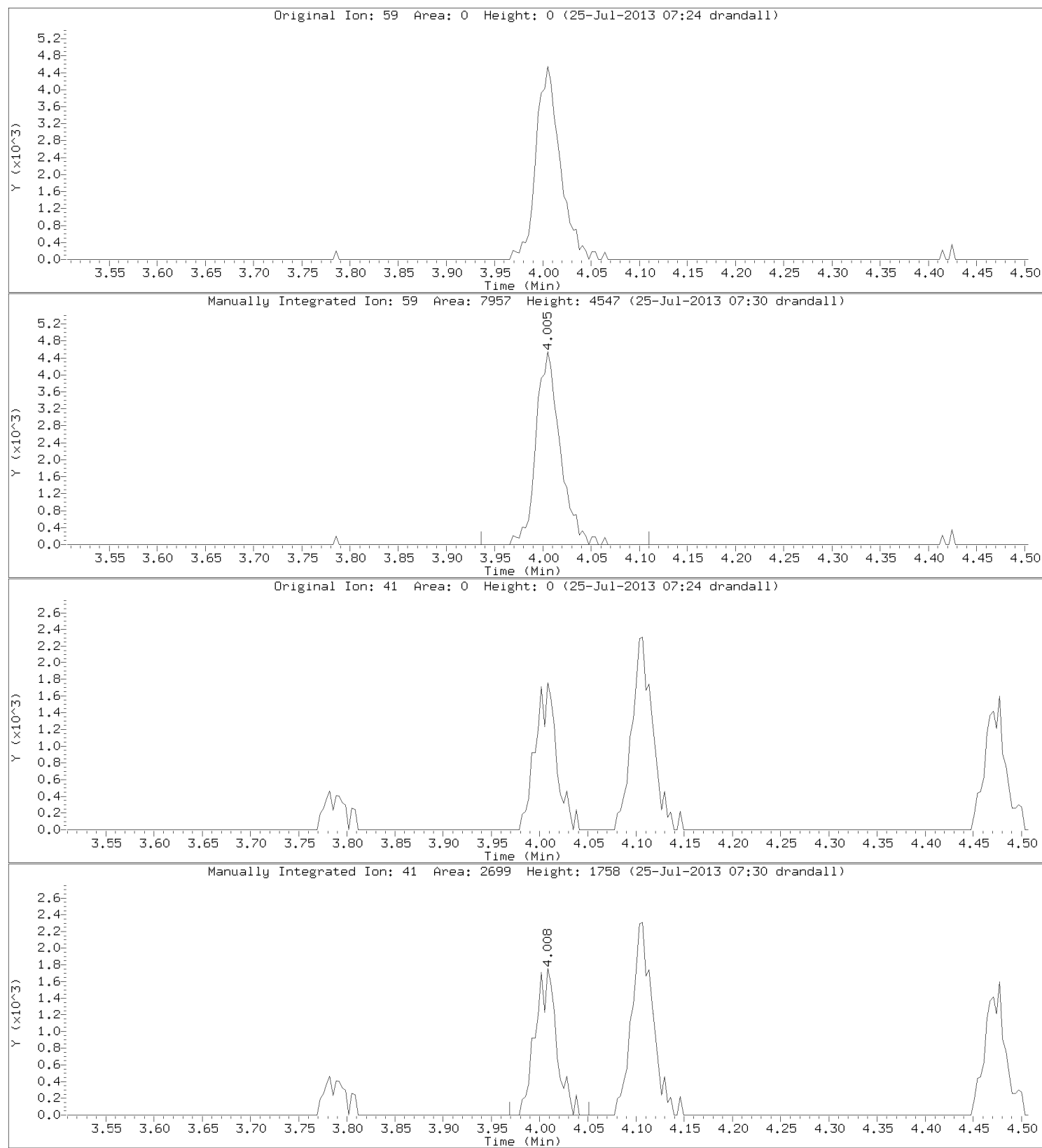
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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

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



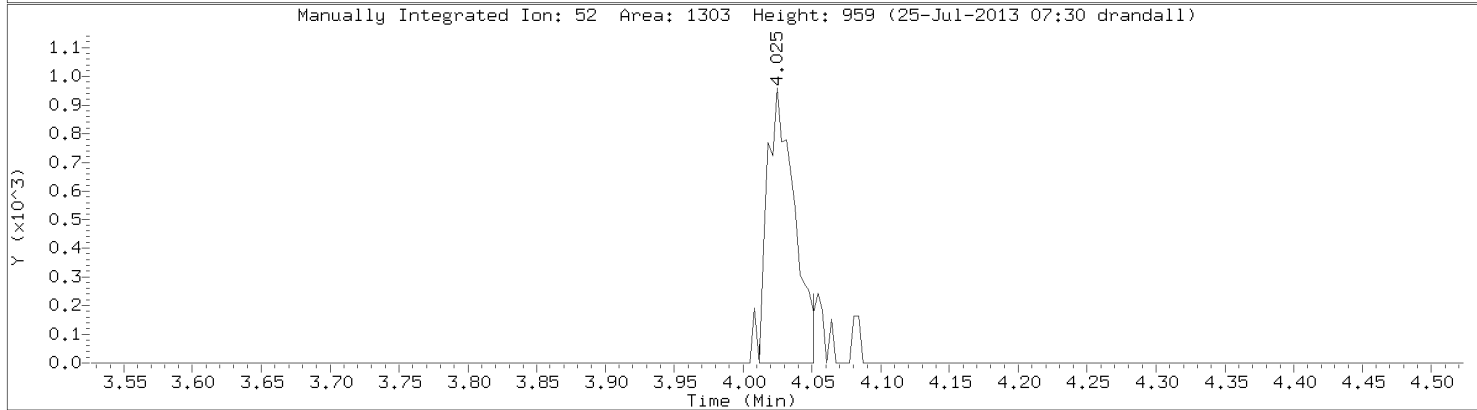
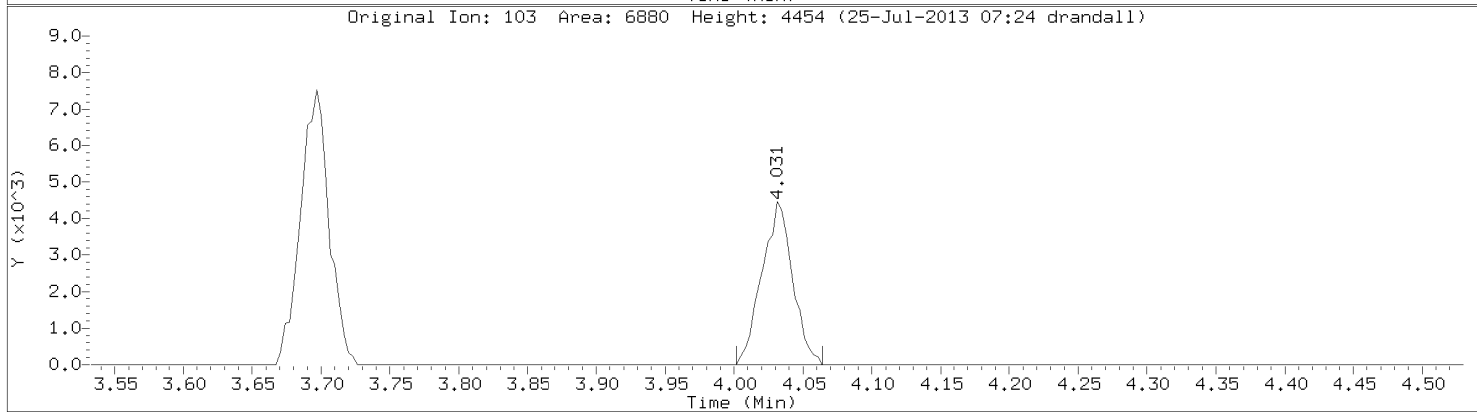
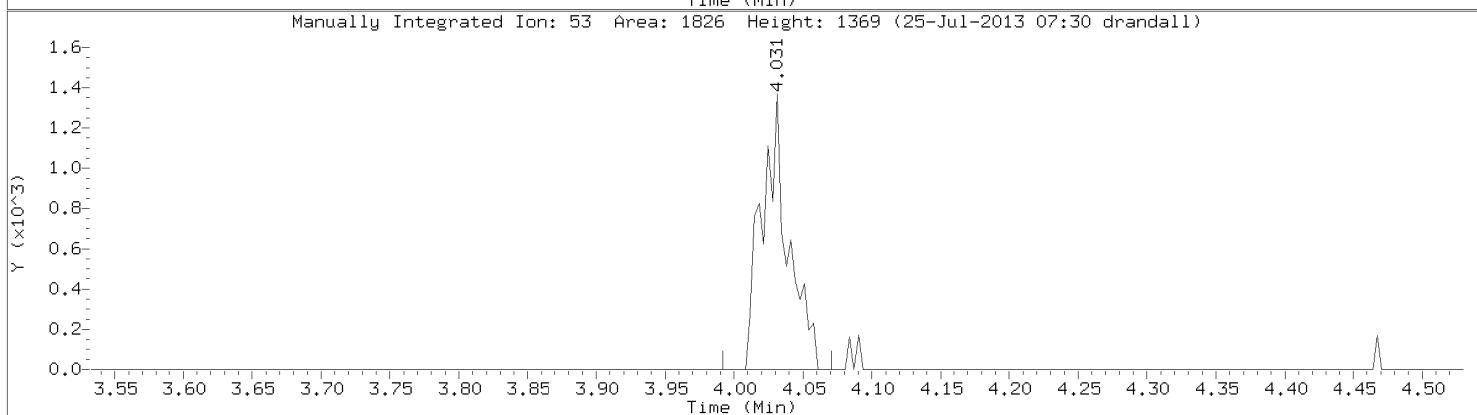
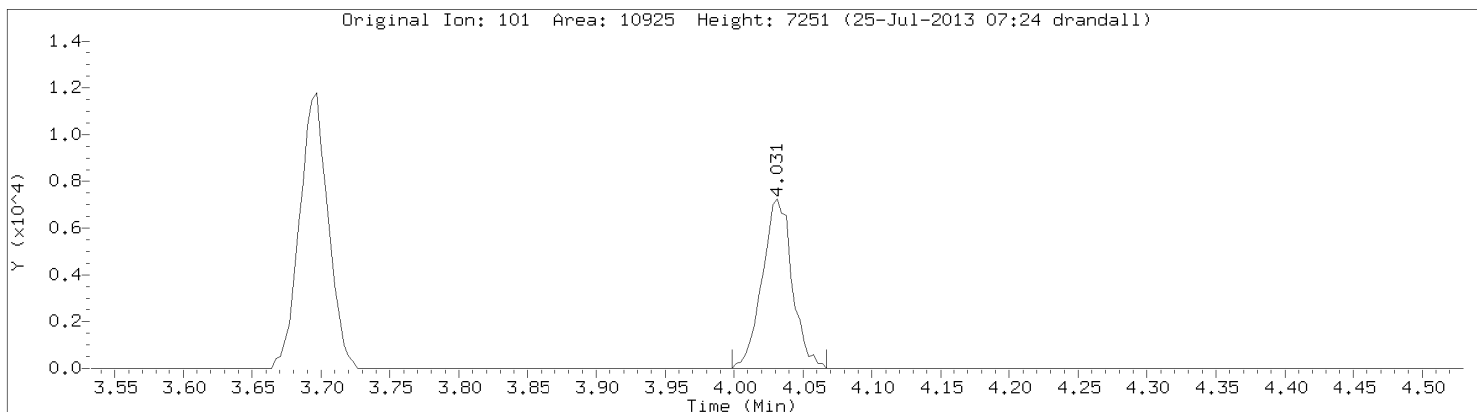
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Instrument: 10airD.i
Lab Sample ID: CAL2

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



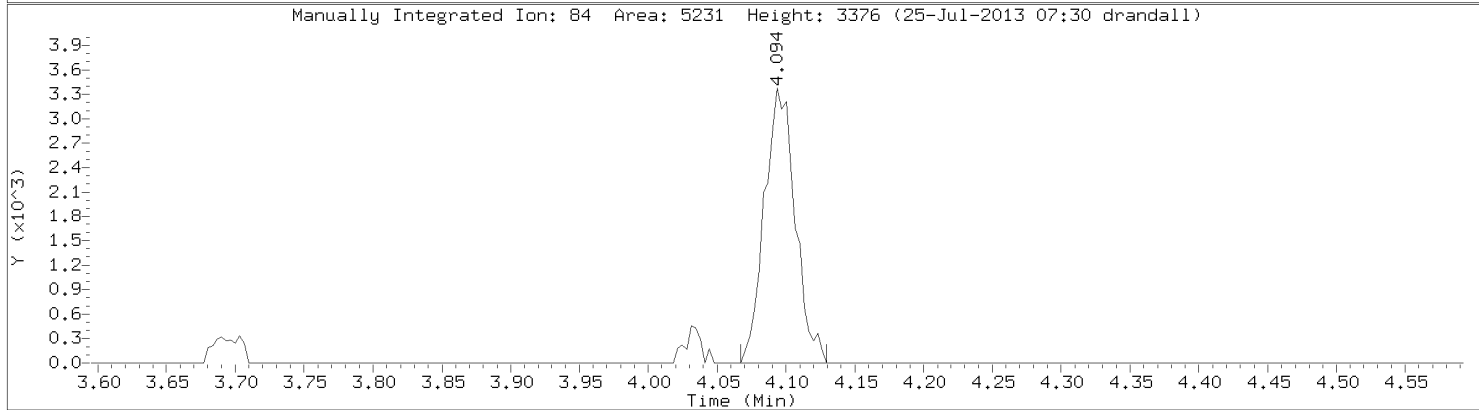
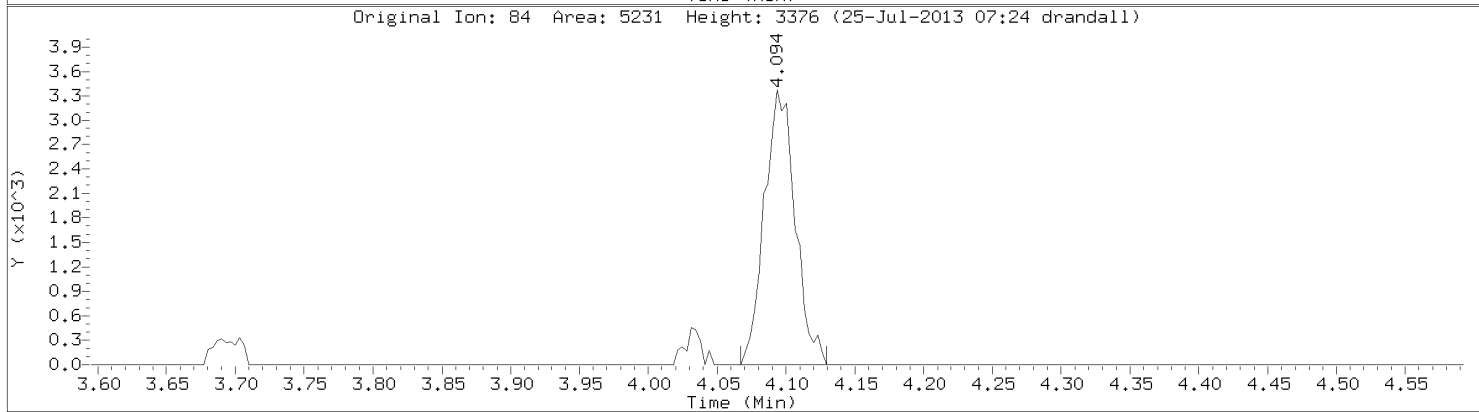
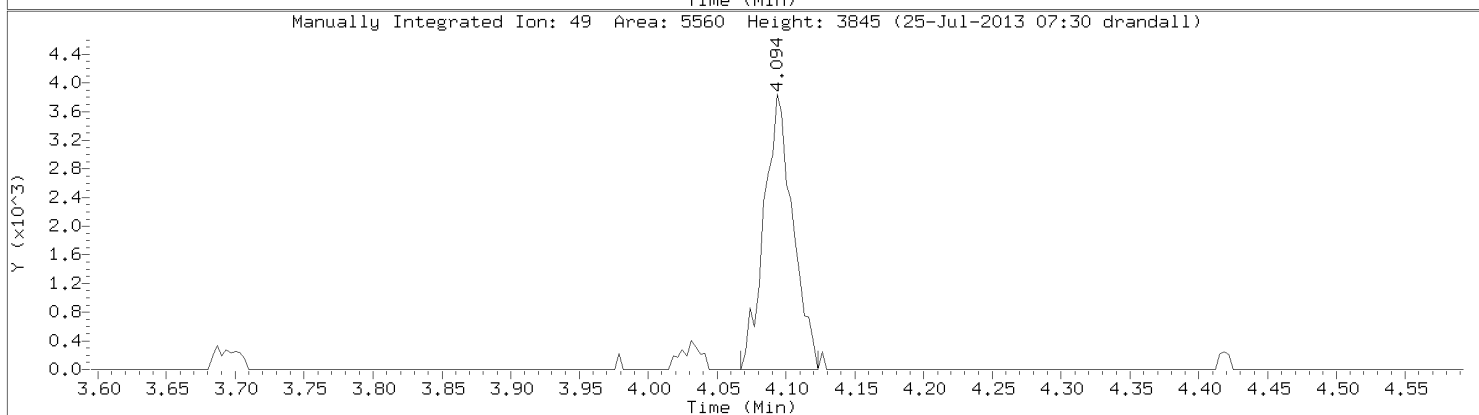
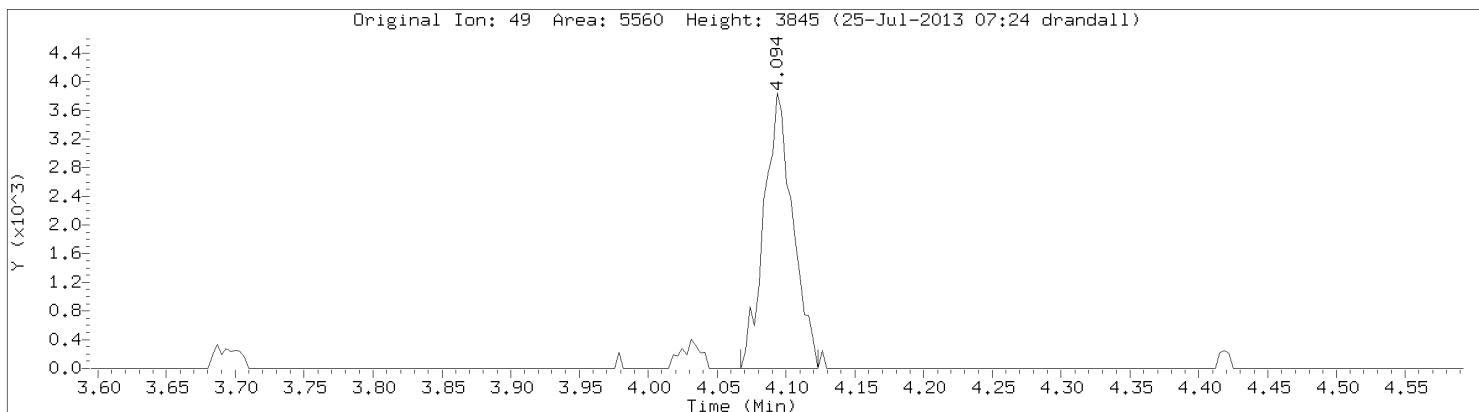
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Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Acrylonitrile
CAS Number: 107-13-1

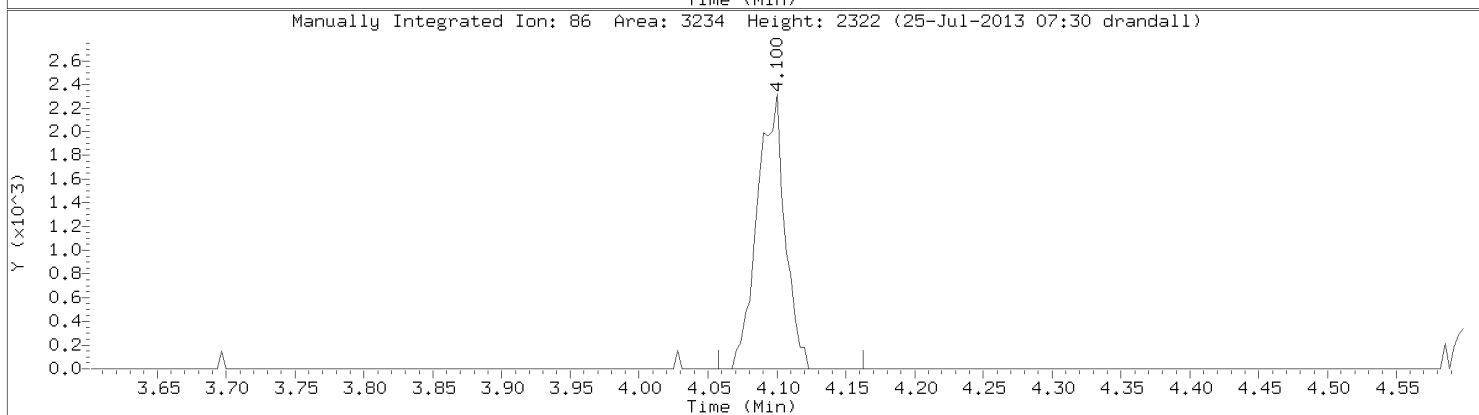
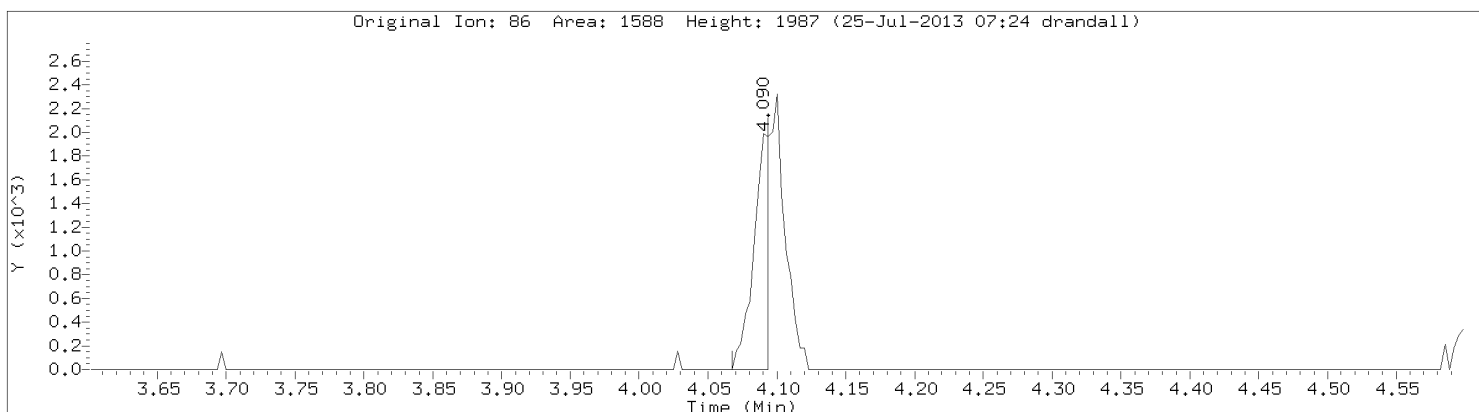


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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Methylene chloride
CAS Number: 75-09-2

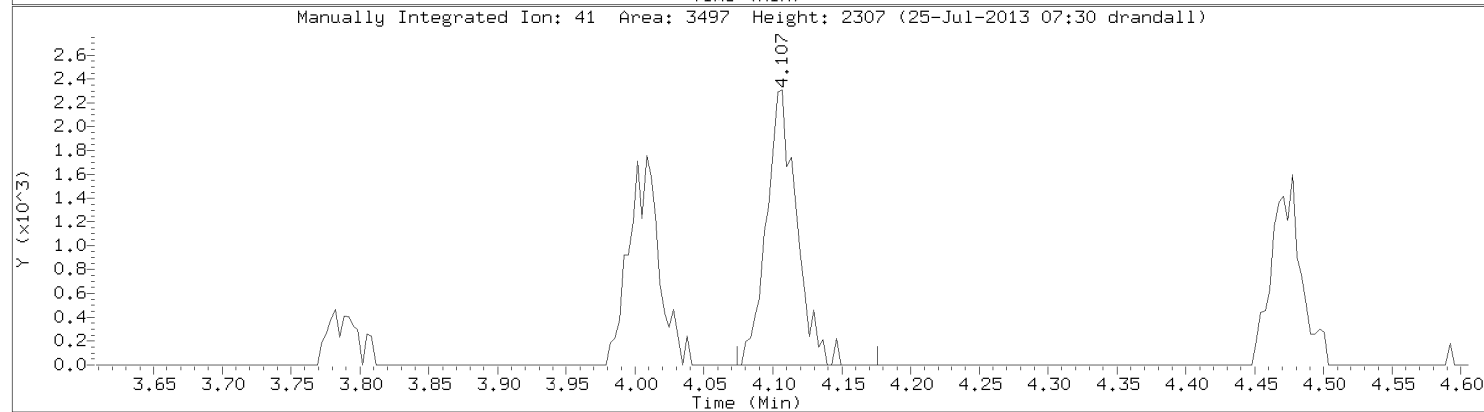
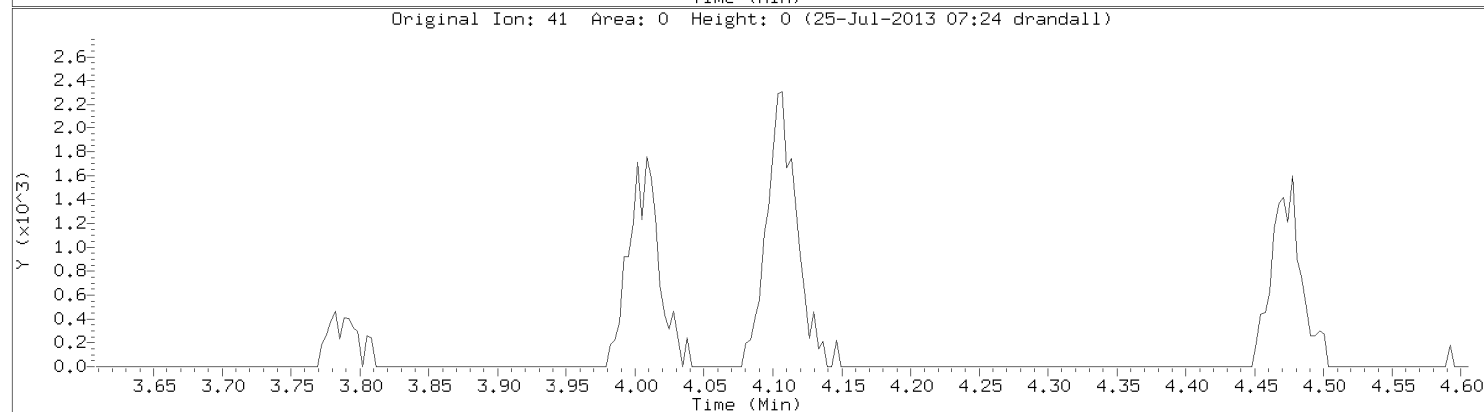
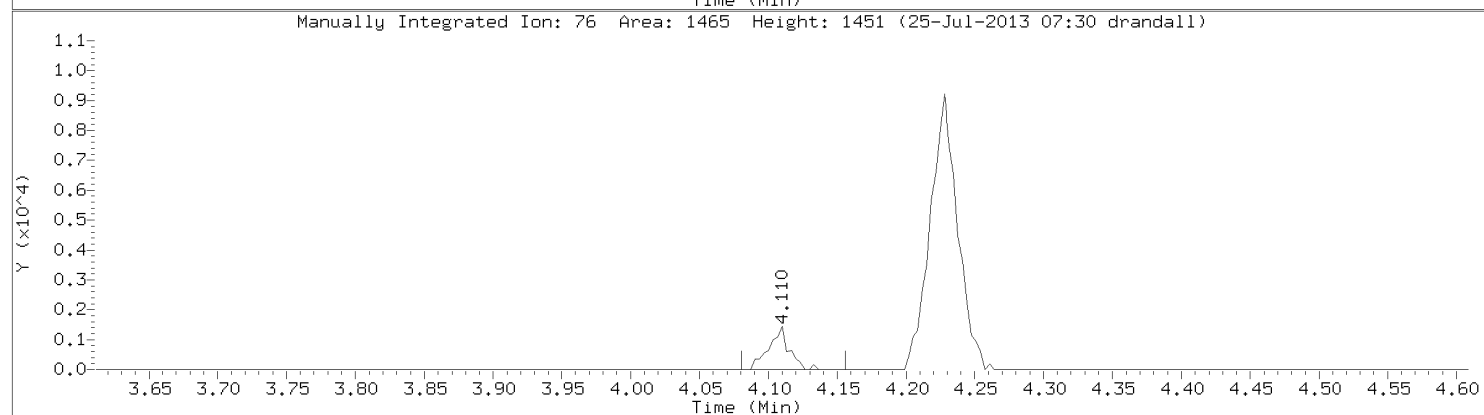
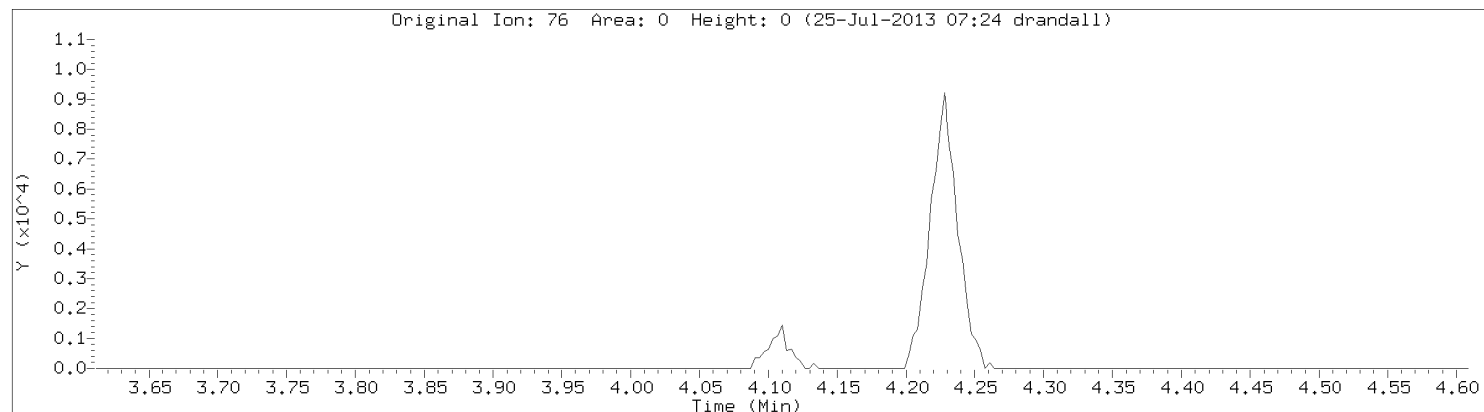


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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

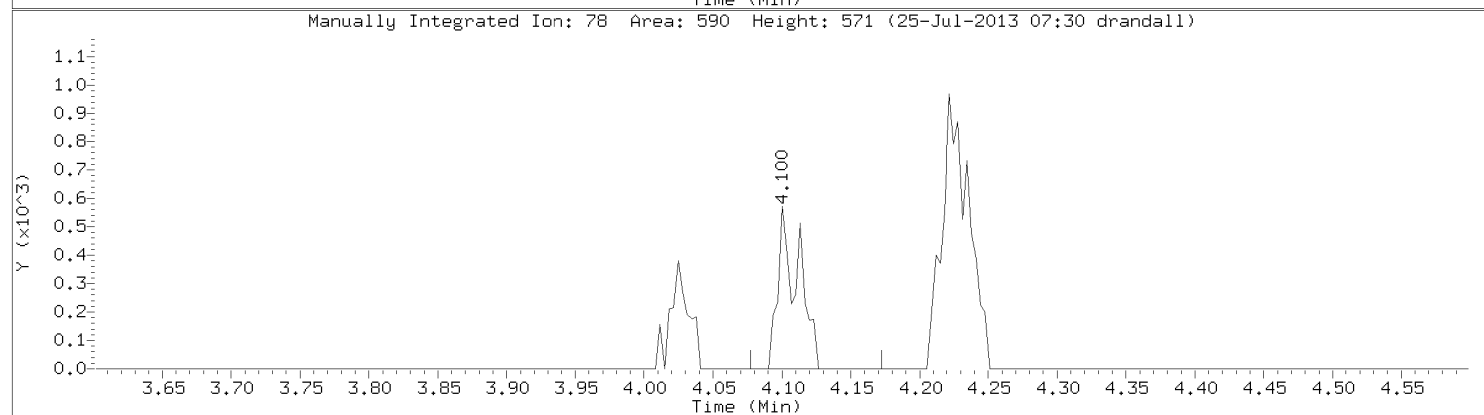
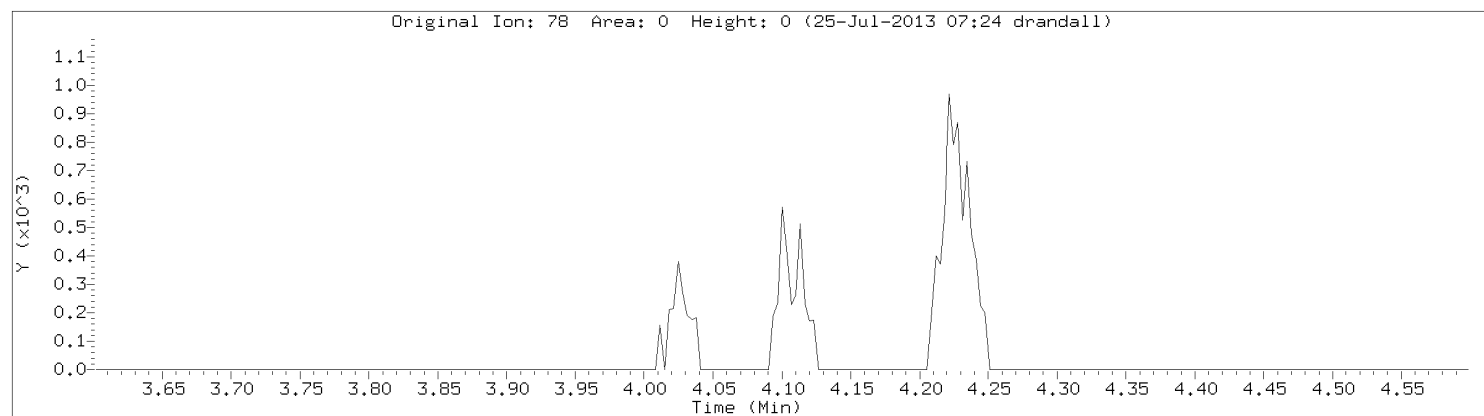


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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

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

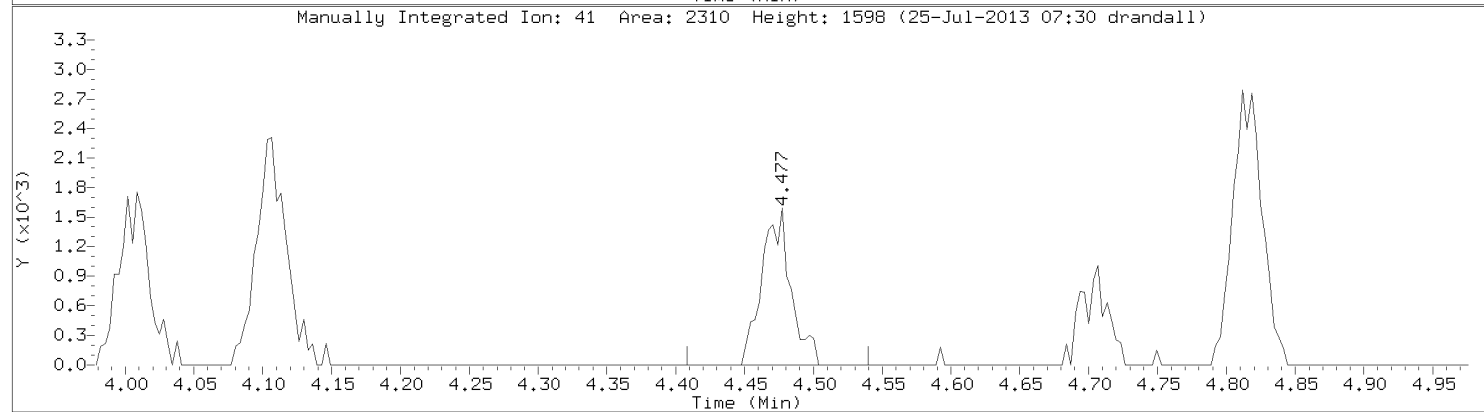
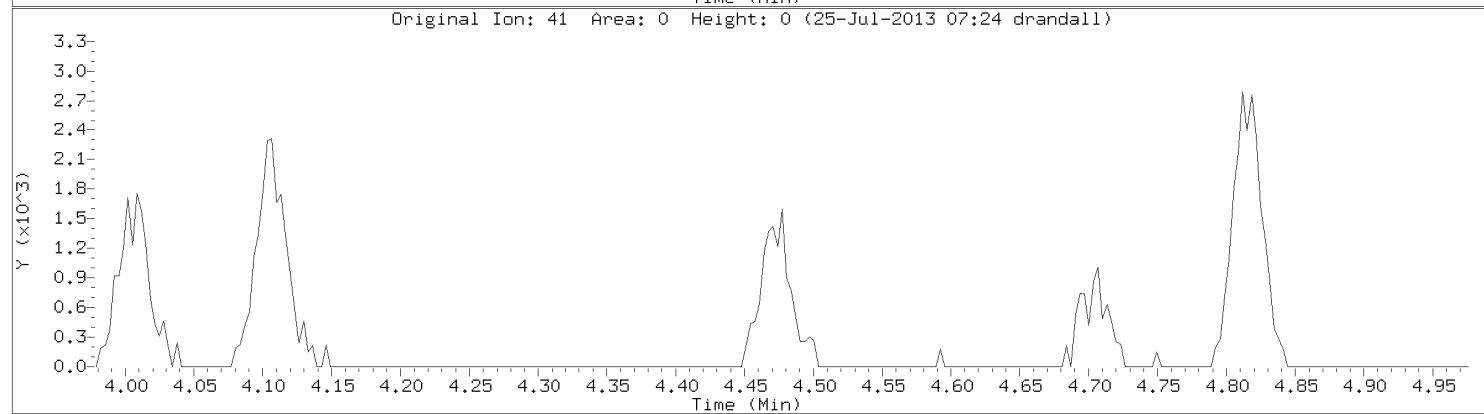
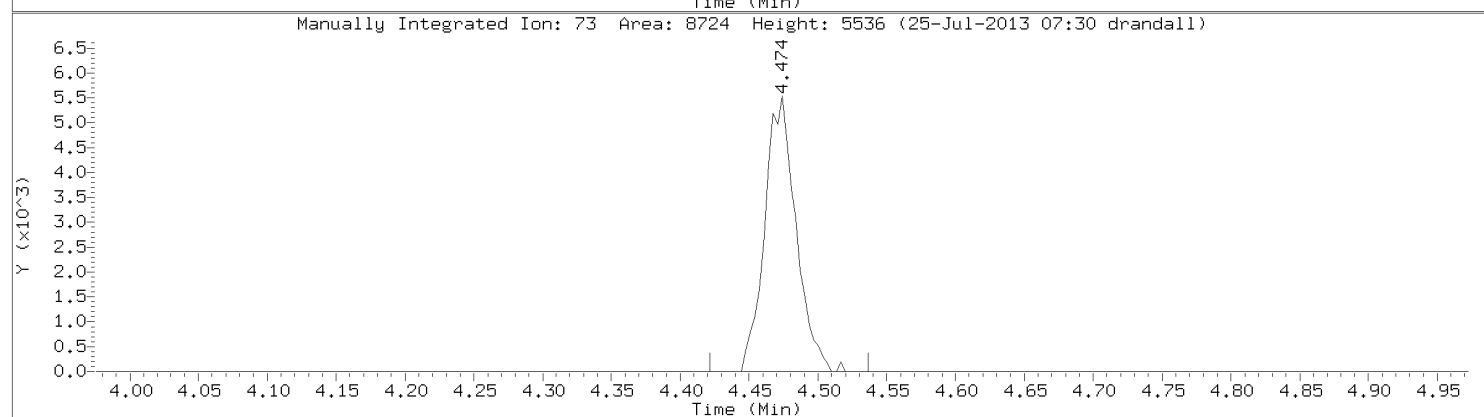
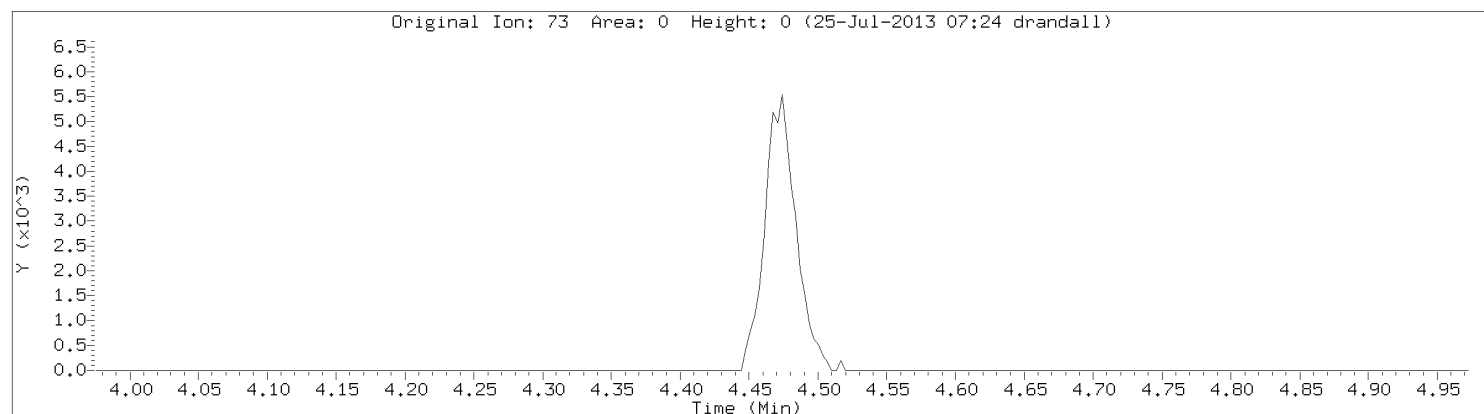


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Lab Sample ID: CAL2



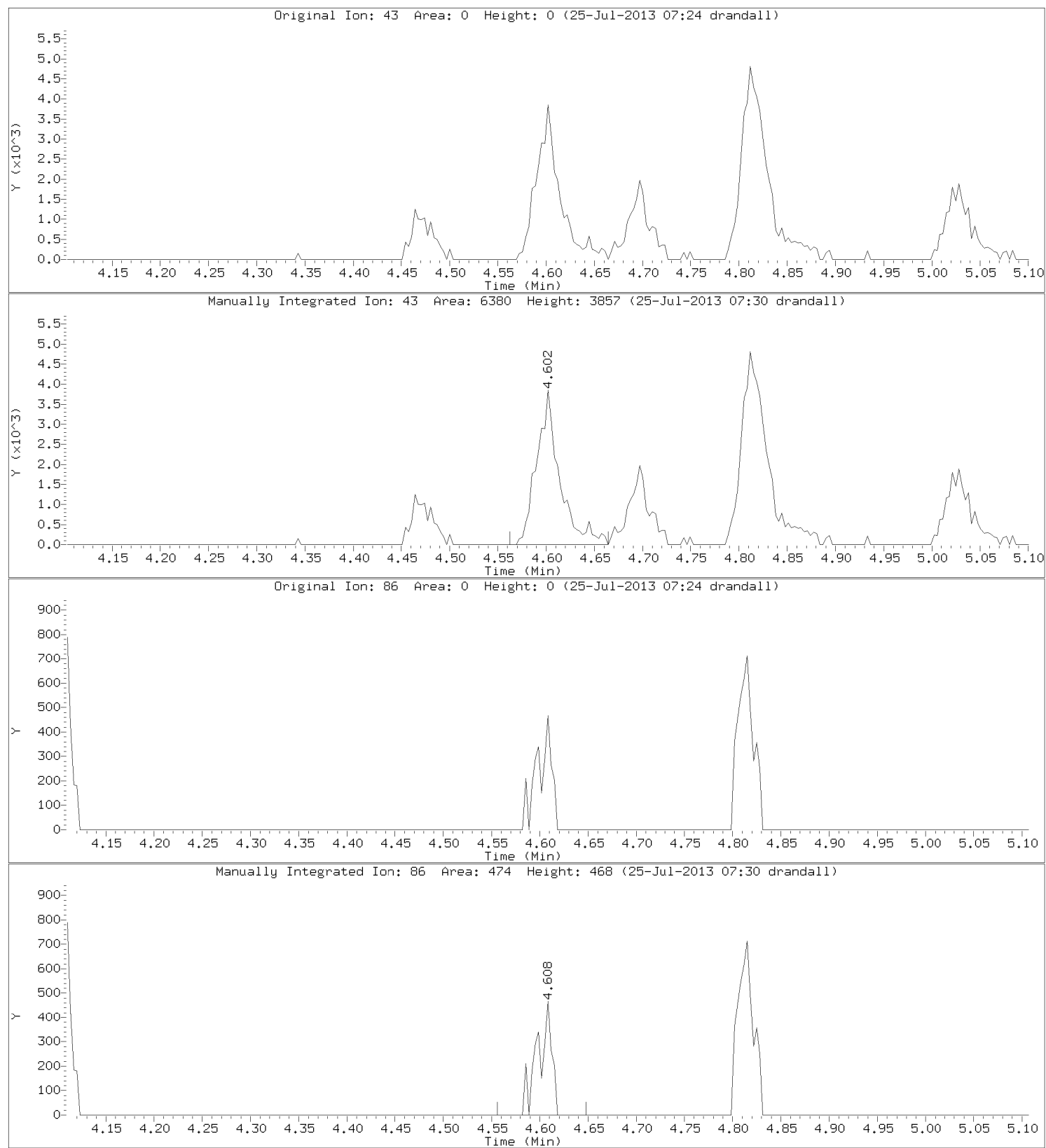
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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

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



Data File: \\192.168.10.12\chem\10airD.i\072413.b\20505.d
Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

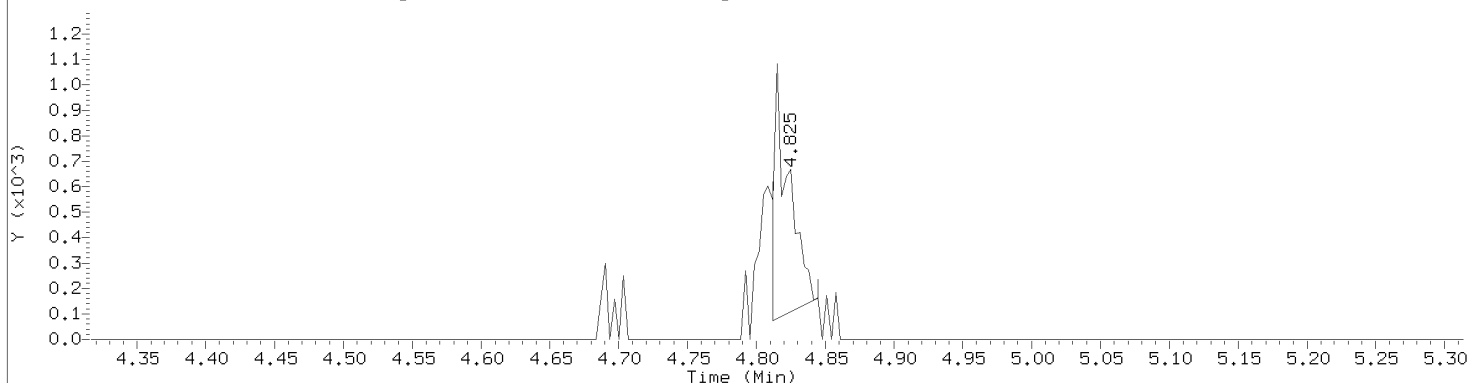
Compound: Vinyl Acetate
CAS Number: 108-05-4



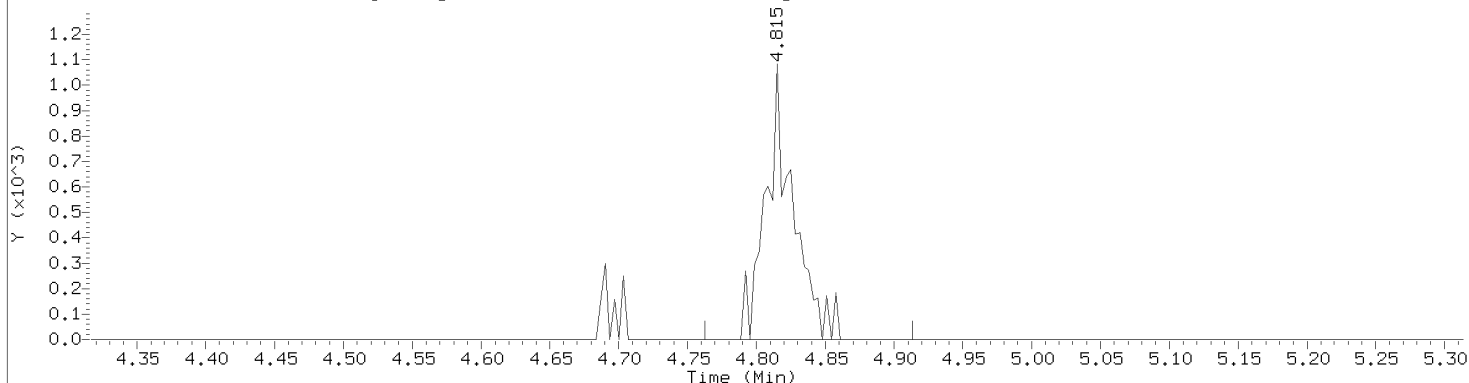
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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

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

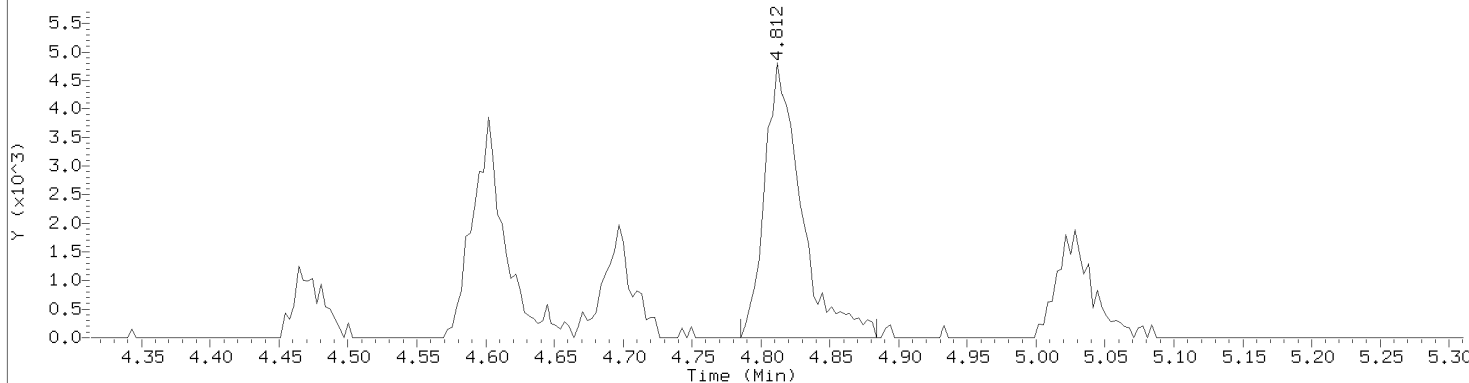
Original Ion: 72 Area: 771 Height: 560 (25-Jul-2013 07:24 drandall)



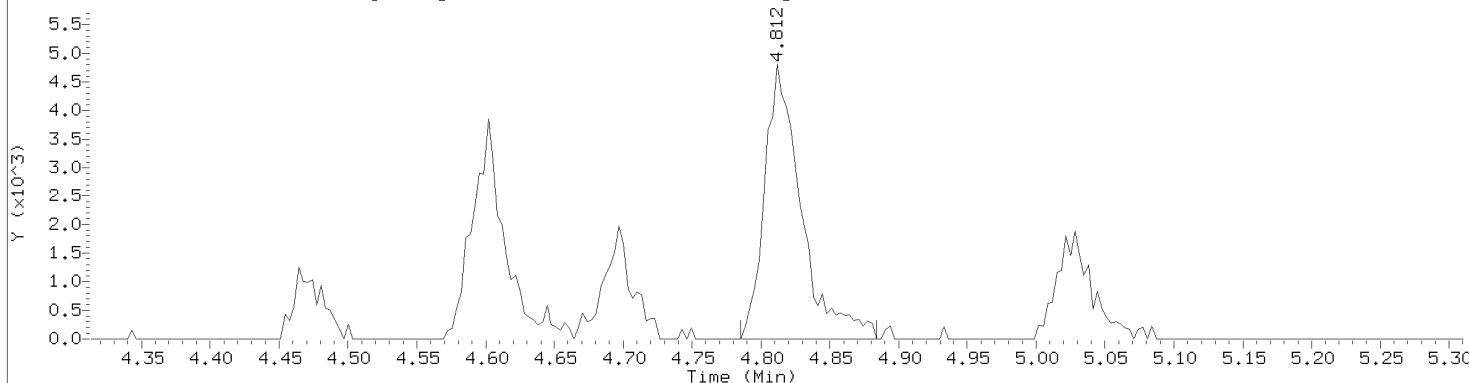
Manually Integrated Ion: 72 Area: 1505 Height: 1083 (25-Jul-2013 07:30 drandall)



Original Ion: 43 Area: 8885 Height: 4812 (25-Jul-2013 07:24 drandall)

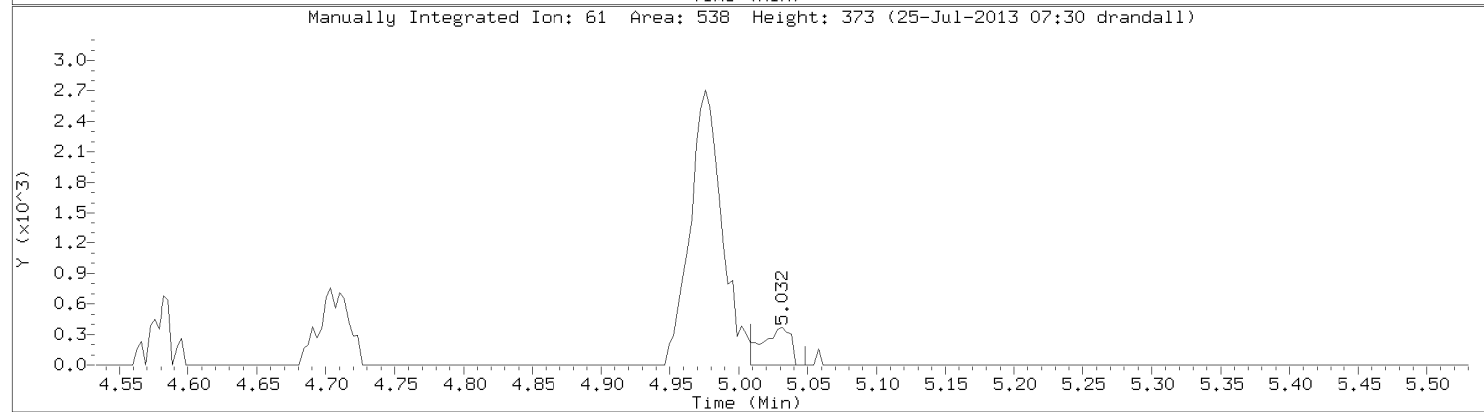
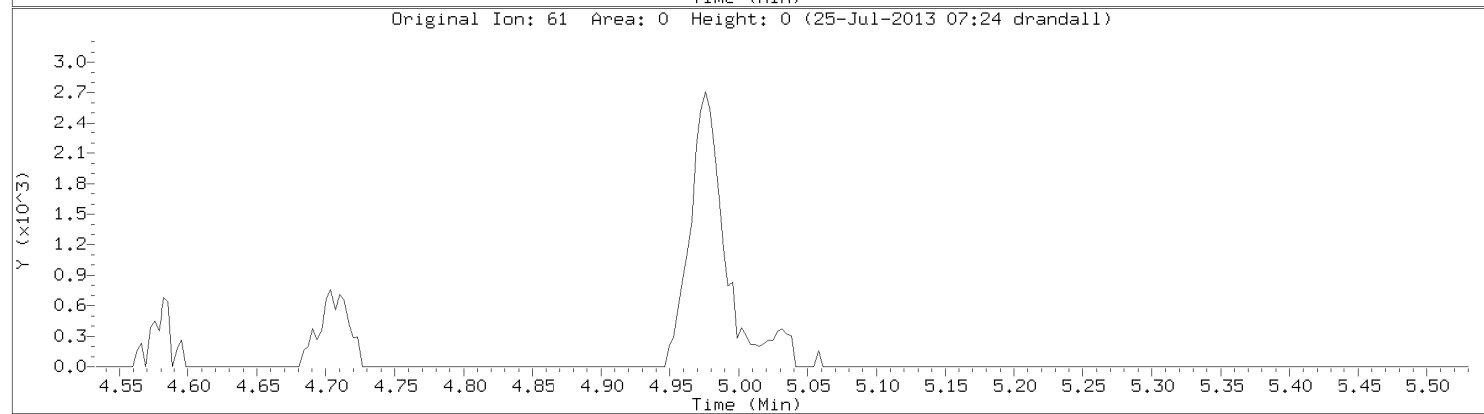
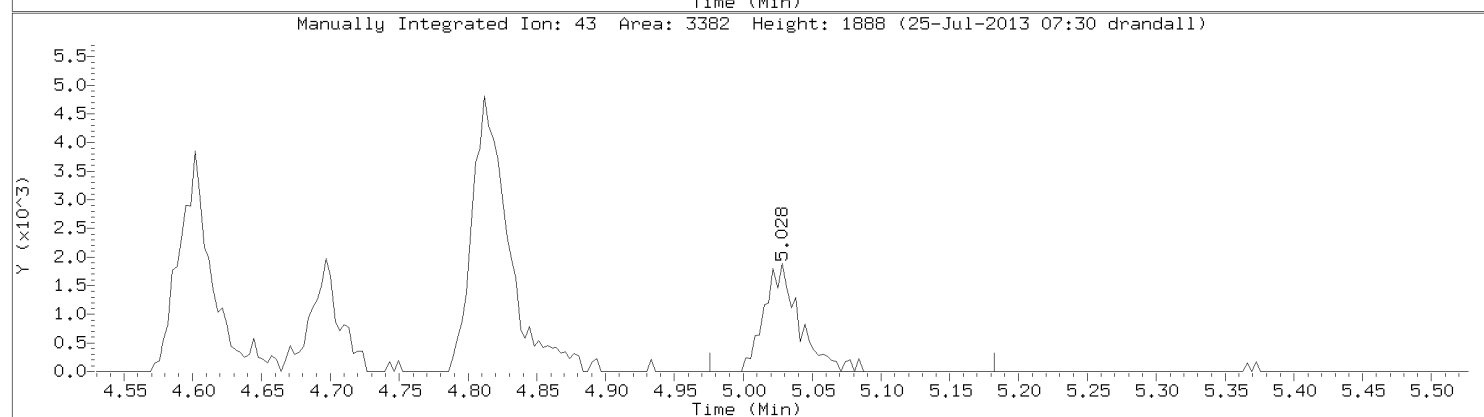
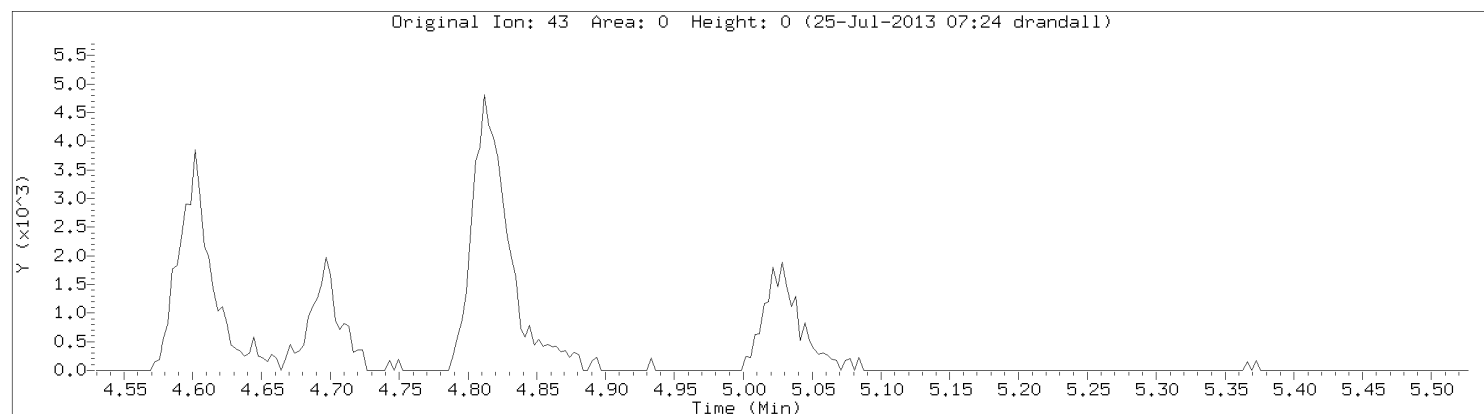


Manually Integrated Ion: 43 Area: 8885 Height: 4812 (25-Jul-2013 07:30 drandall)

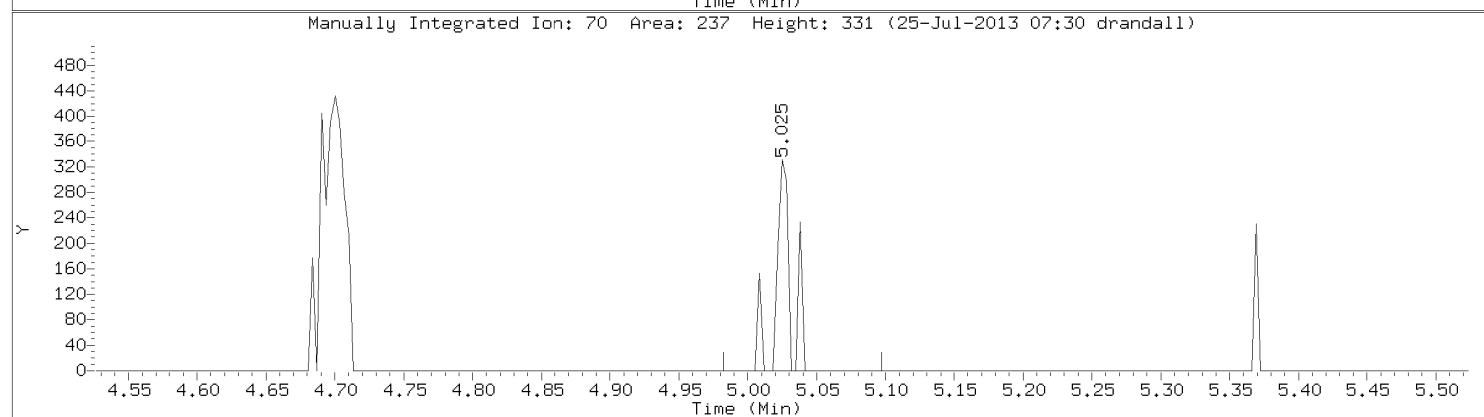
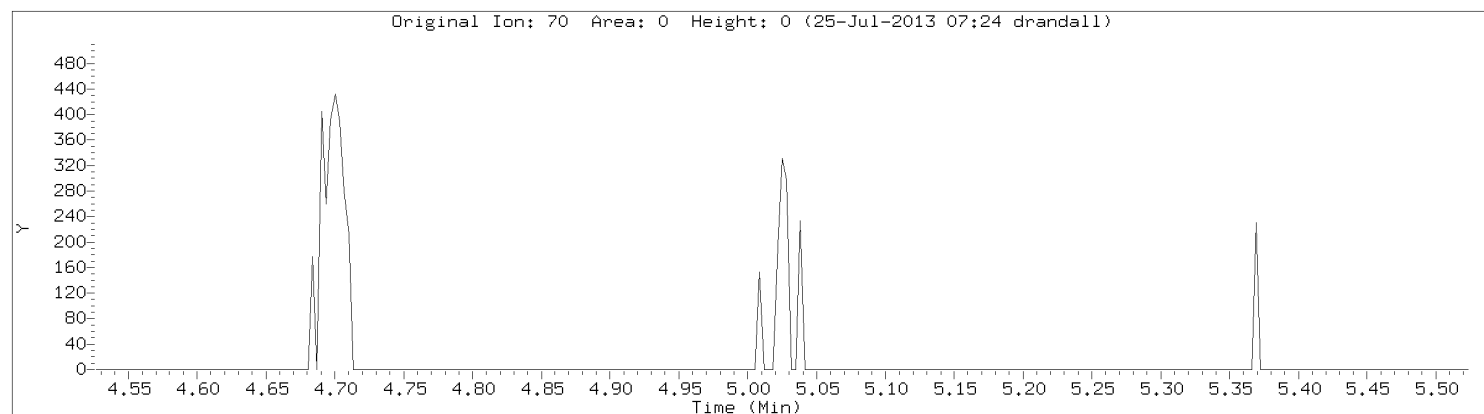


Data File: \\192.168.10.12\chem\10airD.i\072413.b\20505.d
Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

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

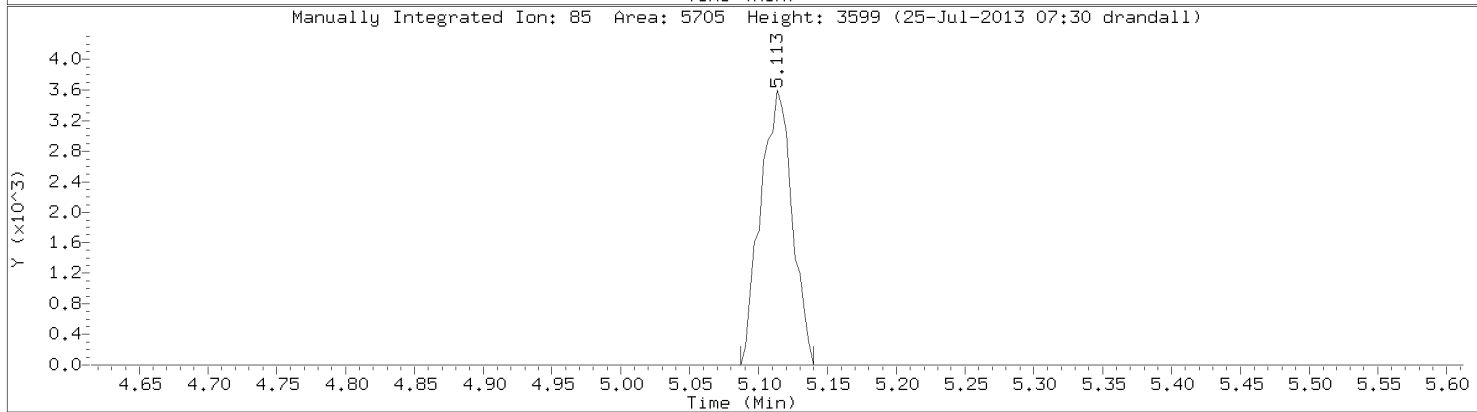
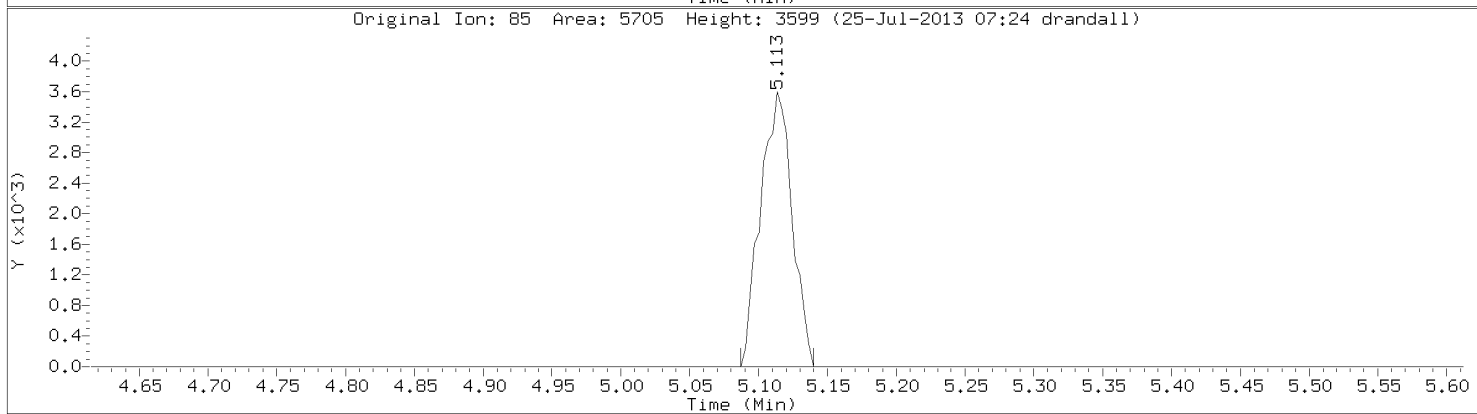
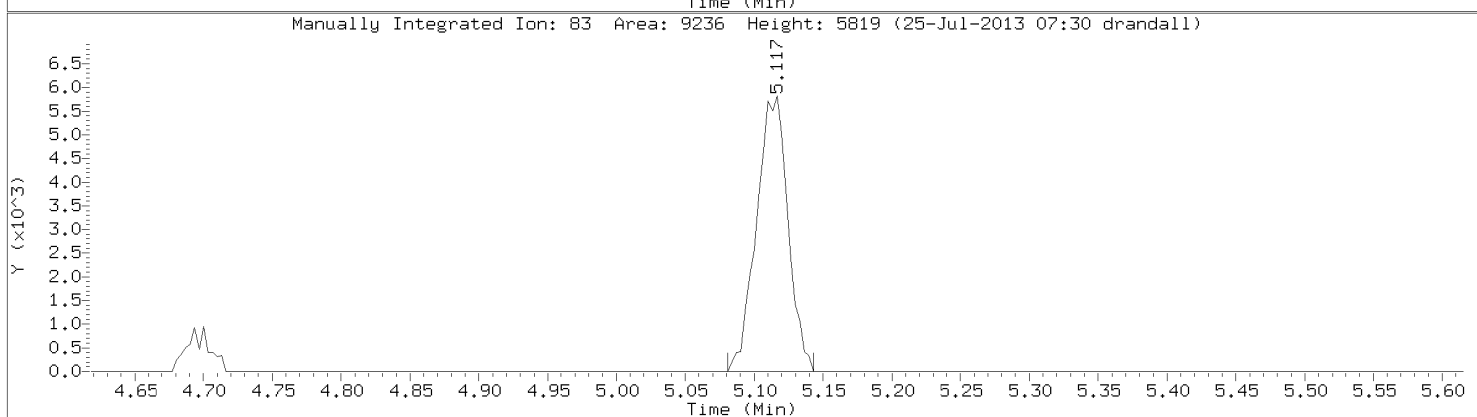
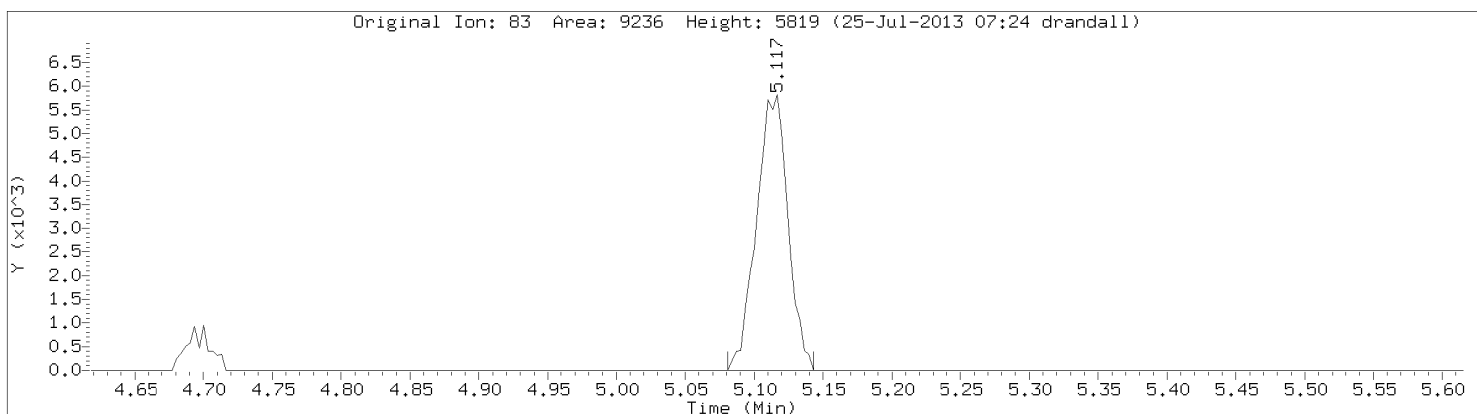


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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

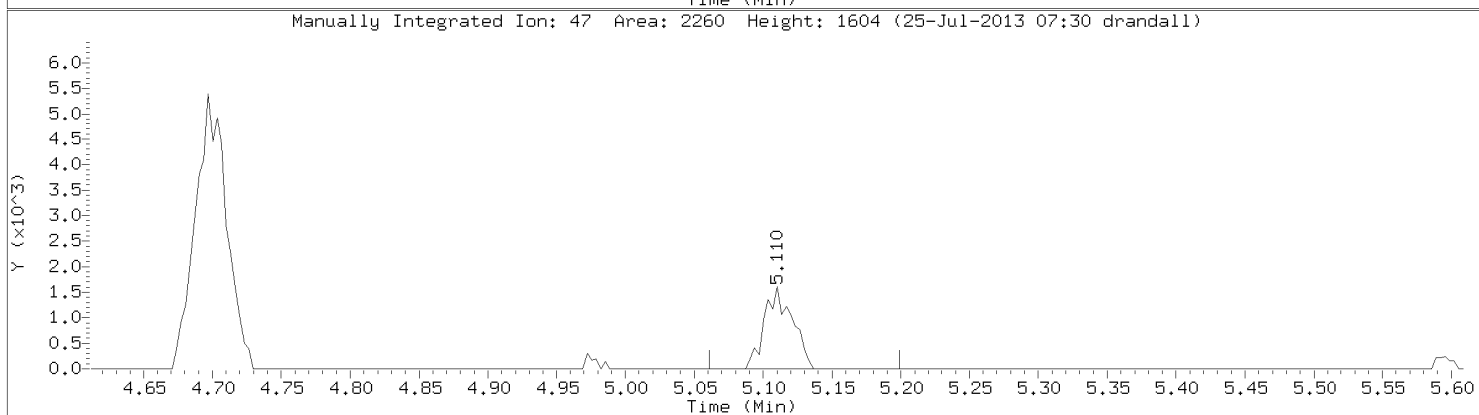
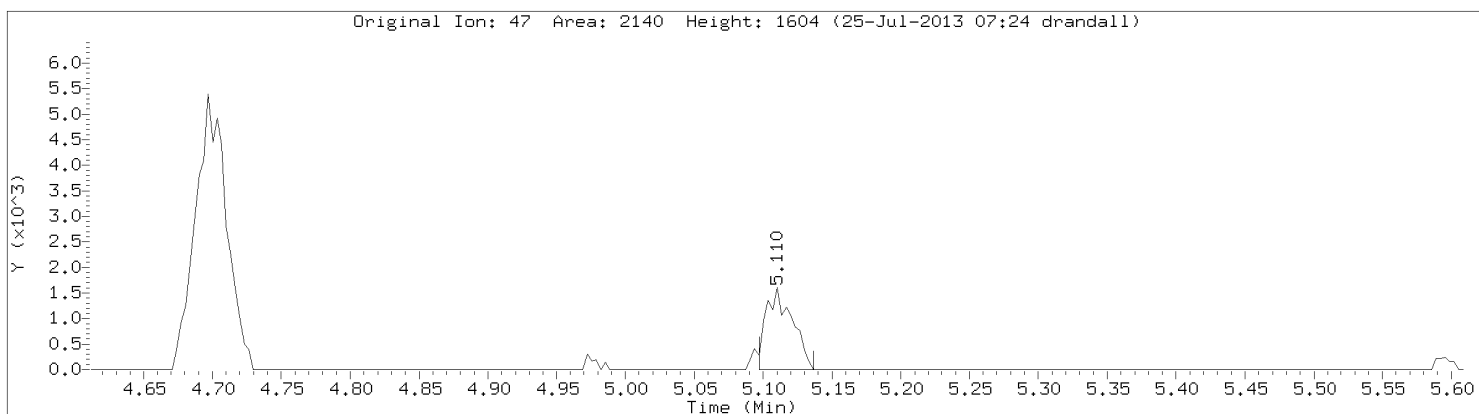


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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Chloroform
CAS Number: 67-66-3

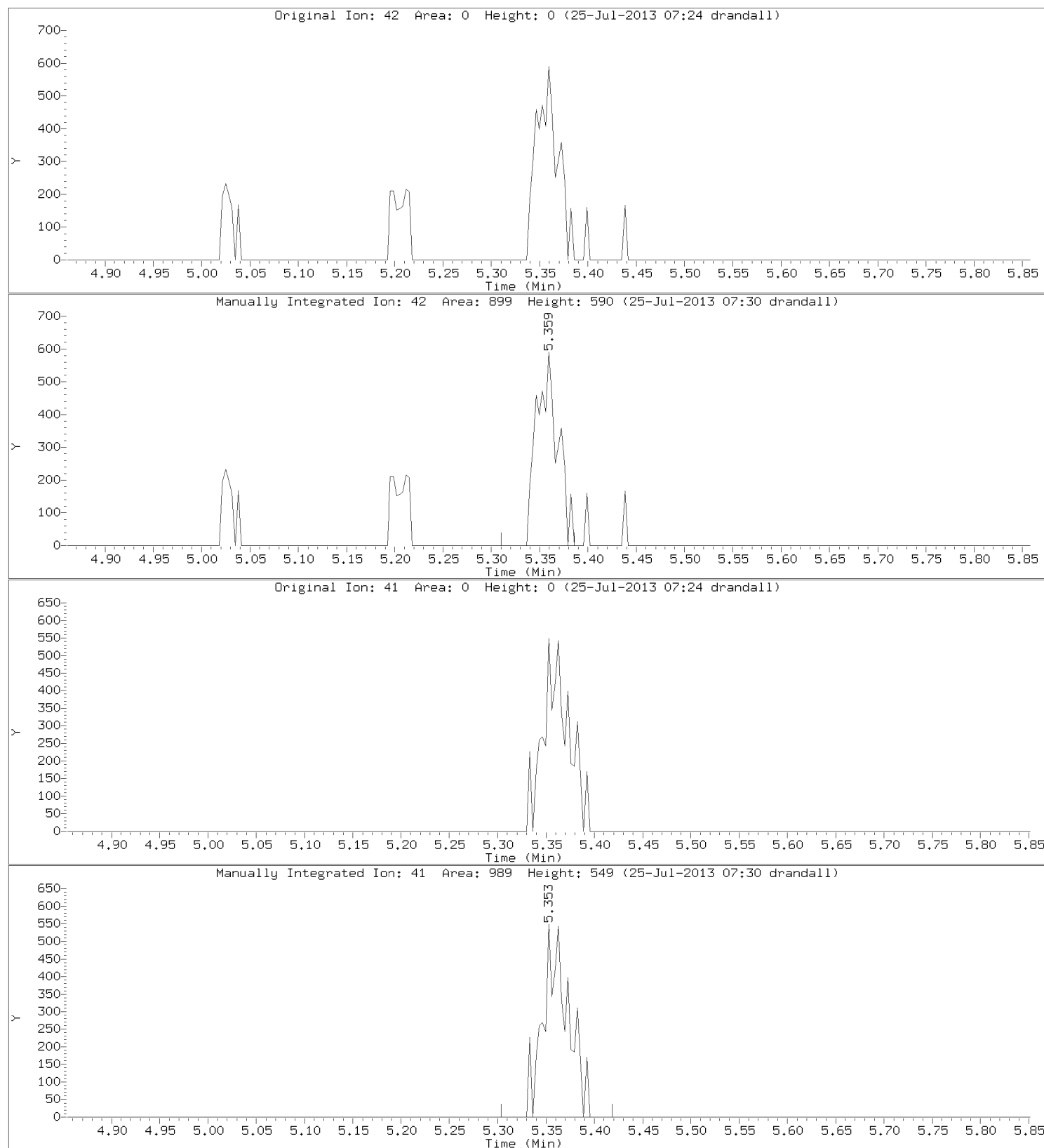


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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

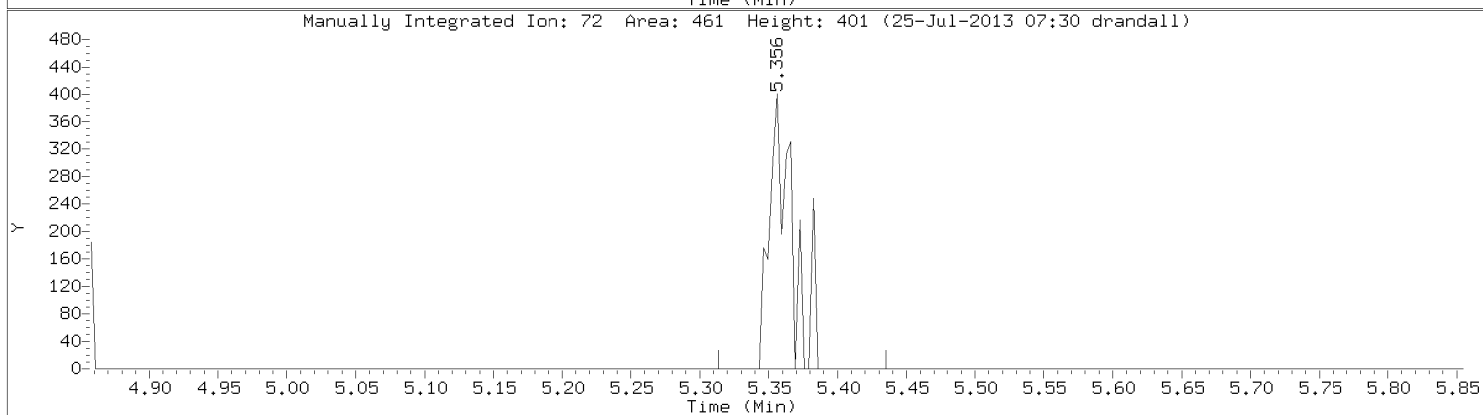
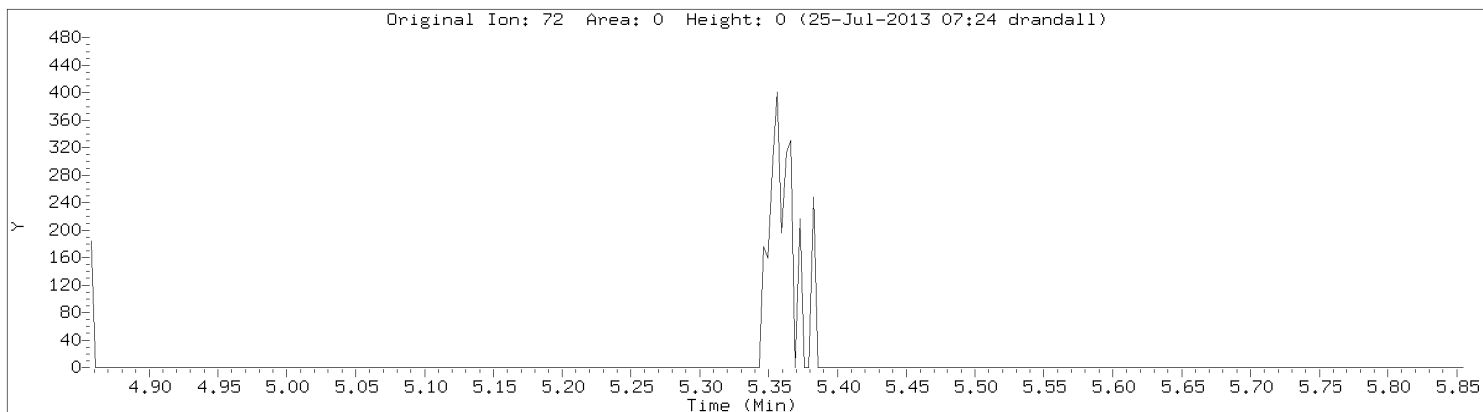


Data File: \\192.168.10.12\chem\10airD.i\072413.b\20505.d
Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Tetrahydrofuran
CAS Number: 109-99-9

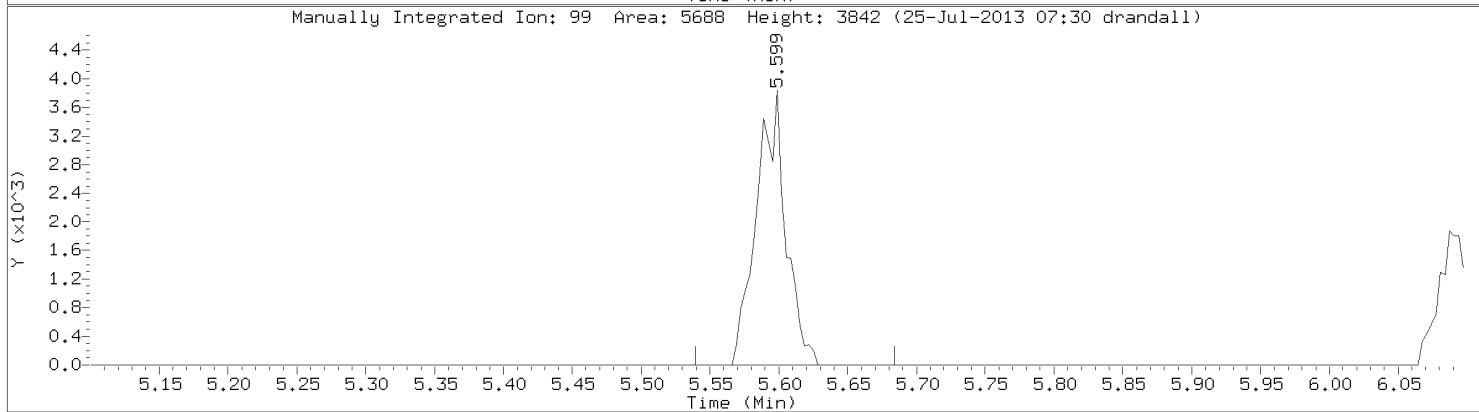
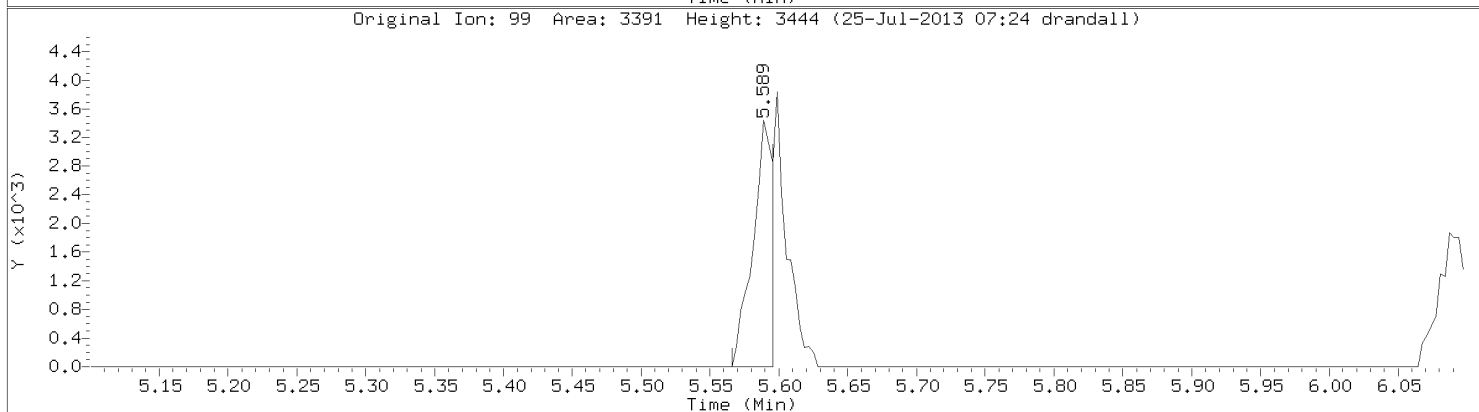
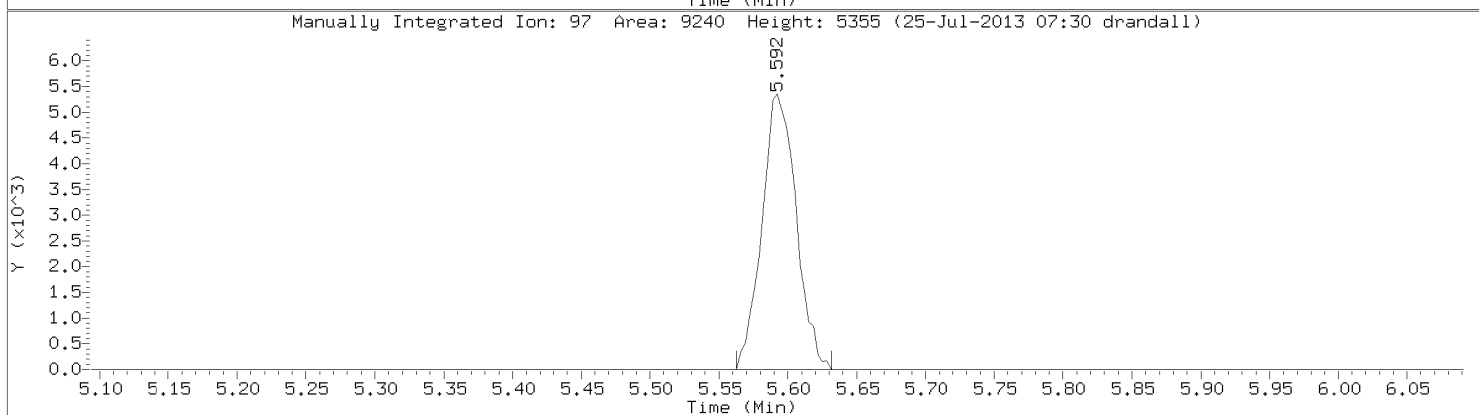
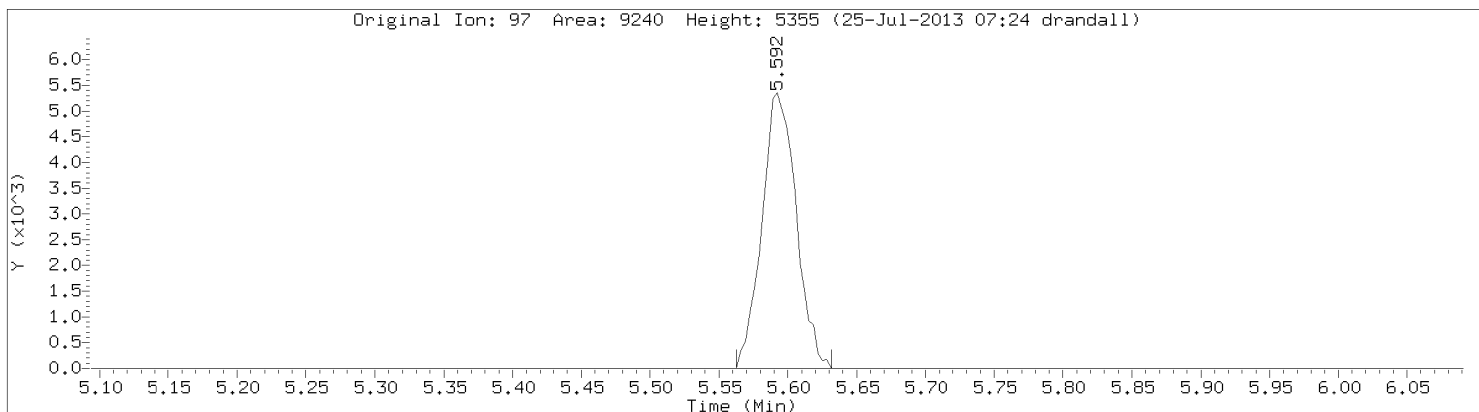


Data File: \\192.168.10.12\chem\10airD.i\072413.b\20505.d
Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

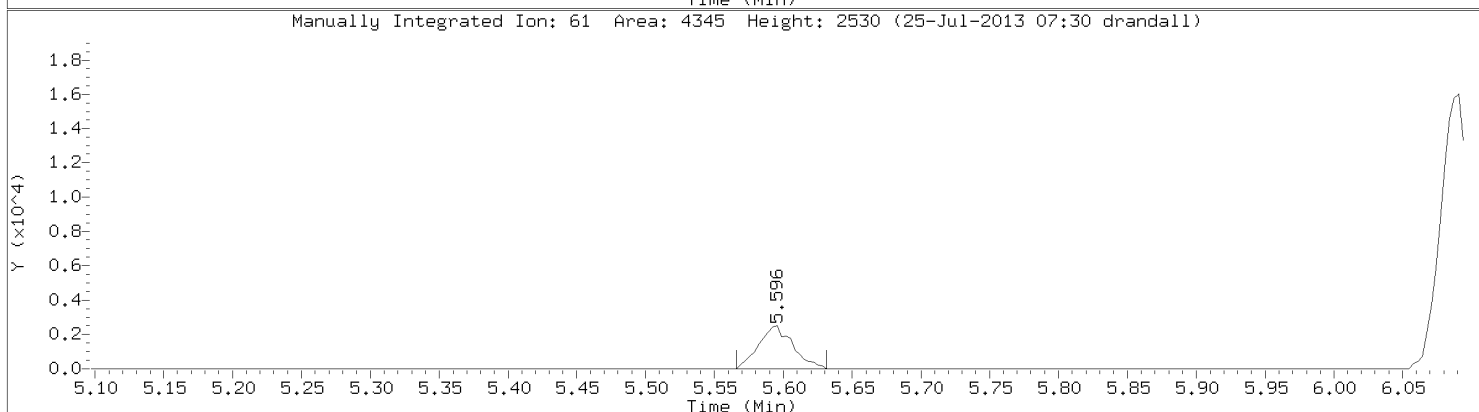
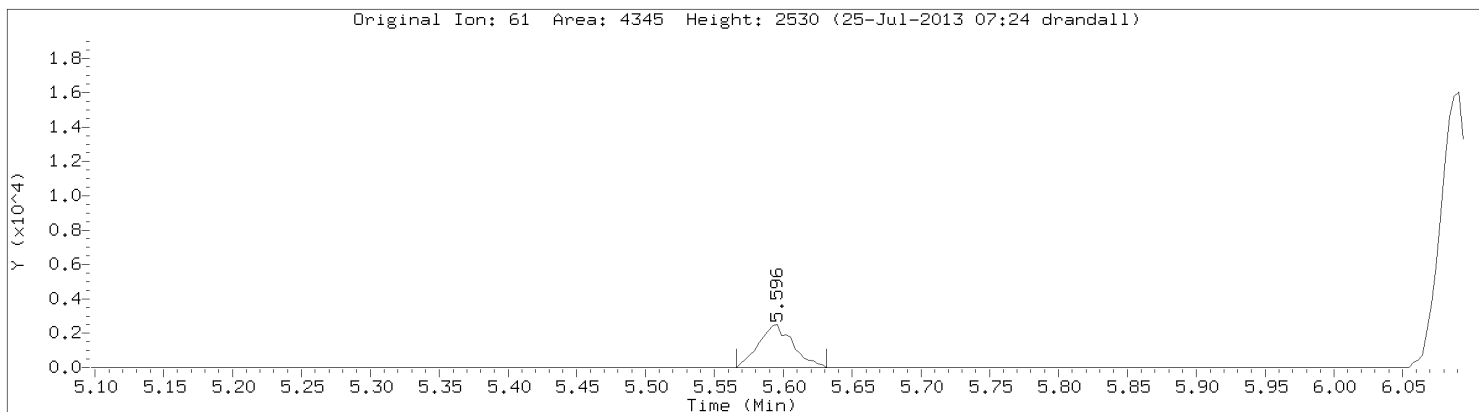


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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

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

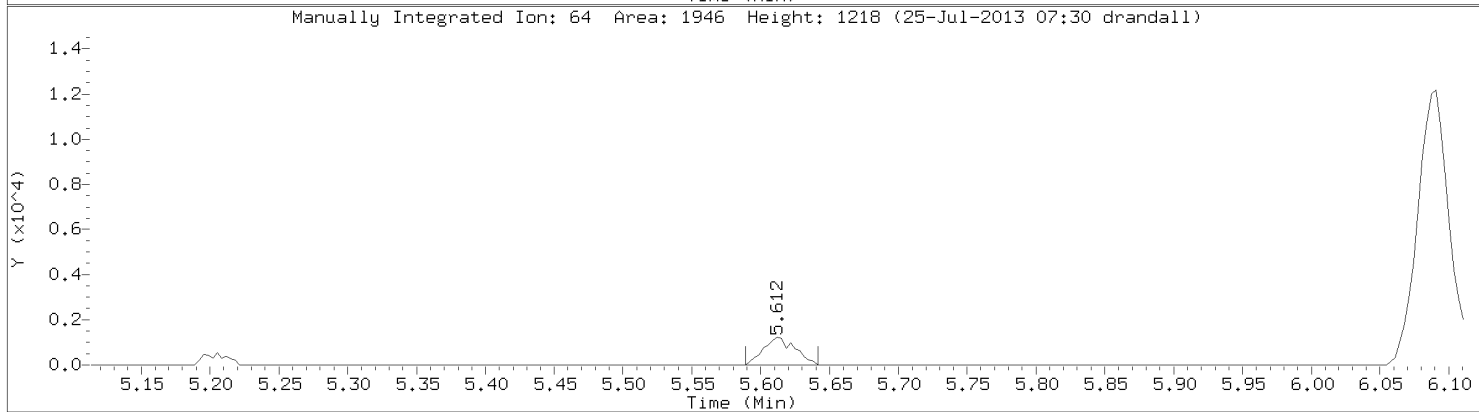
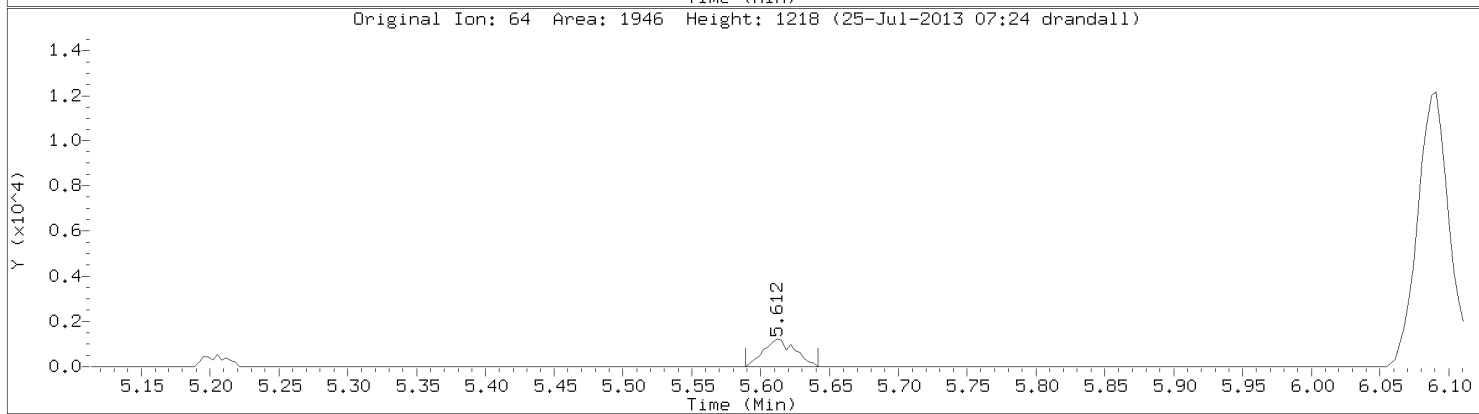
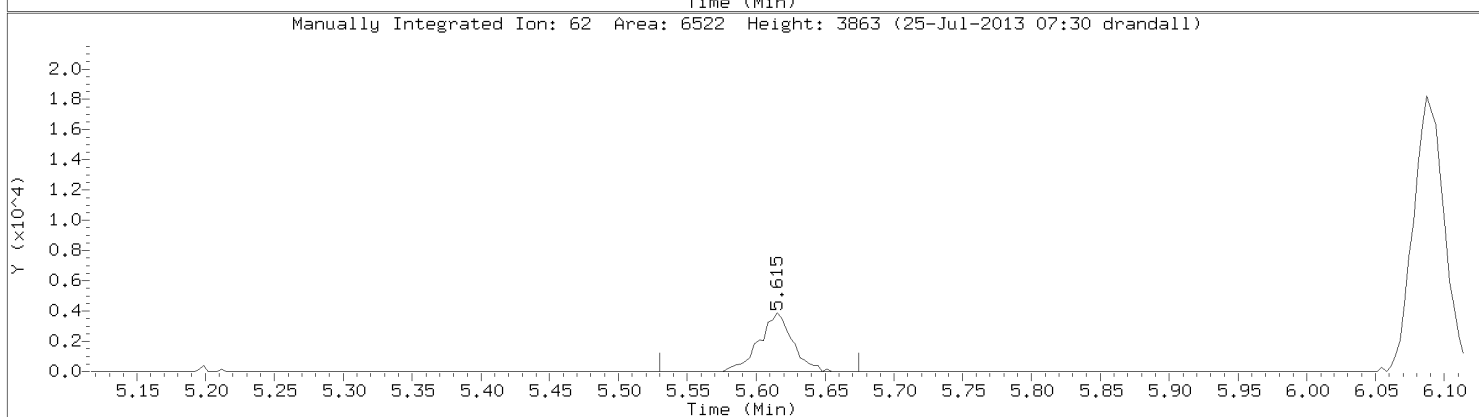
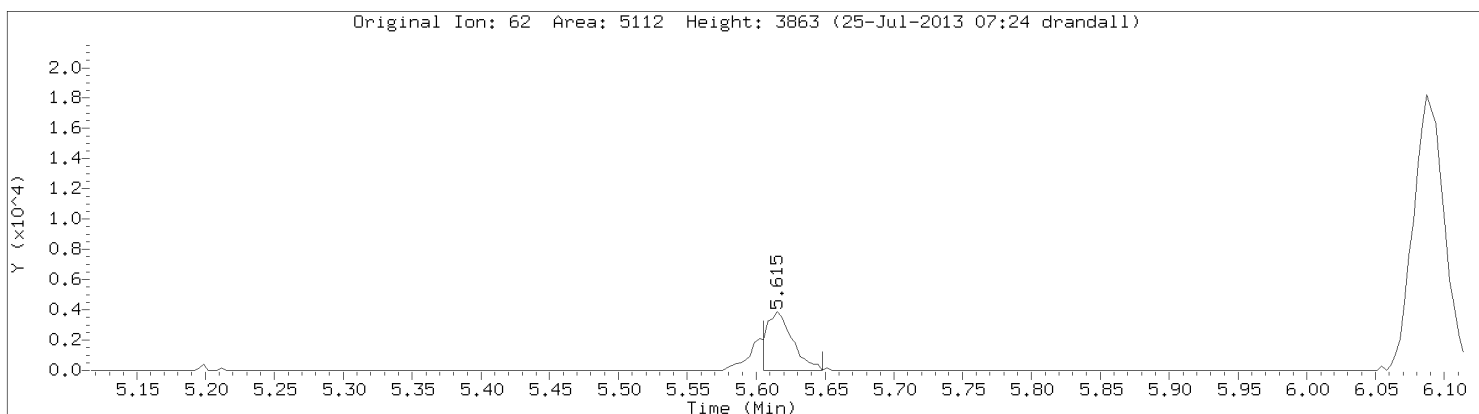


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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2



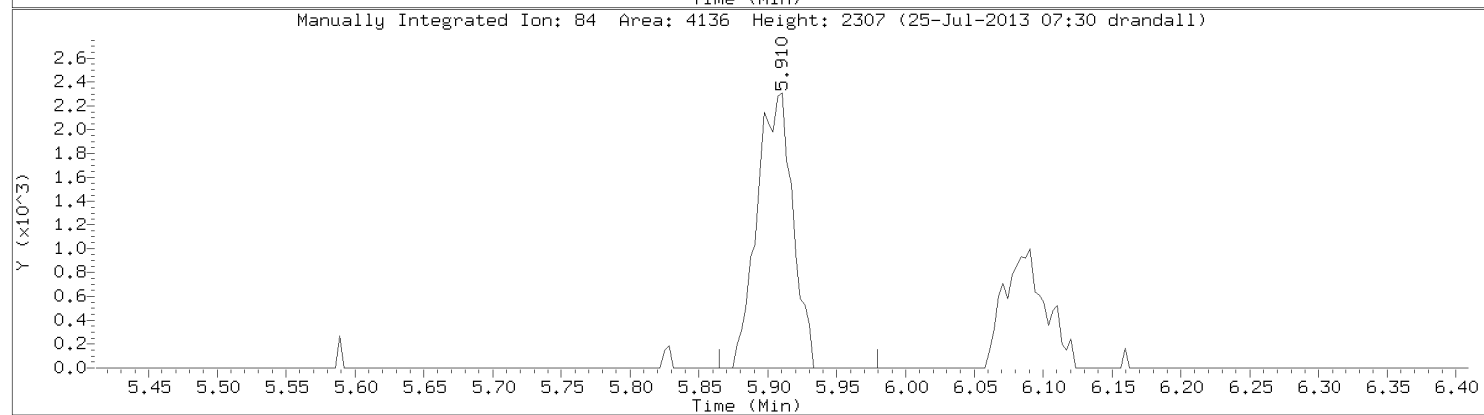
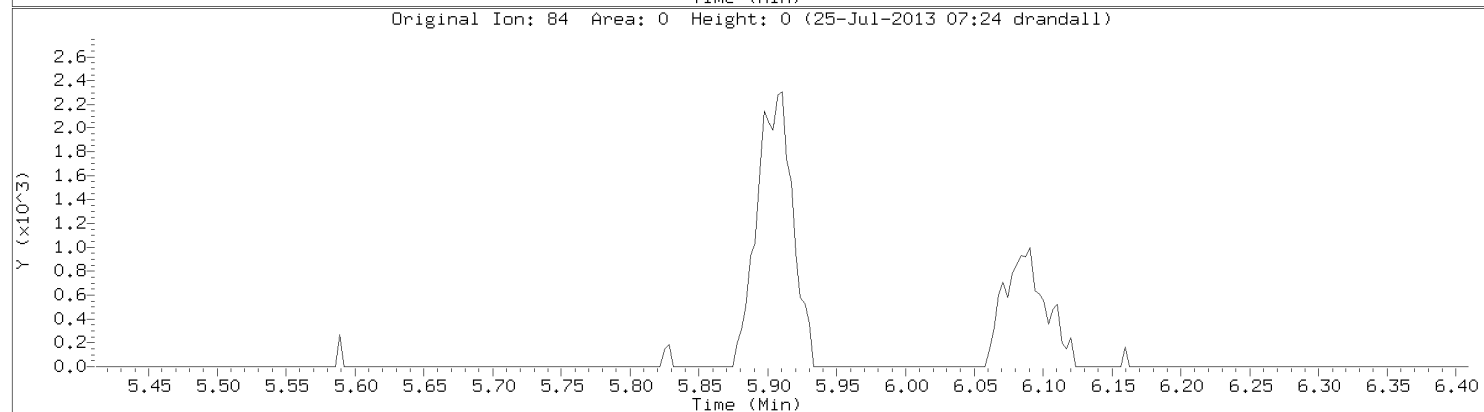
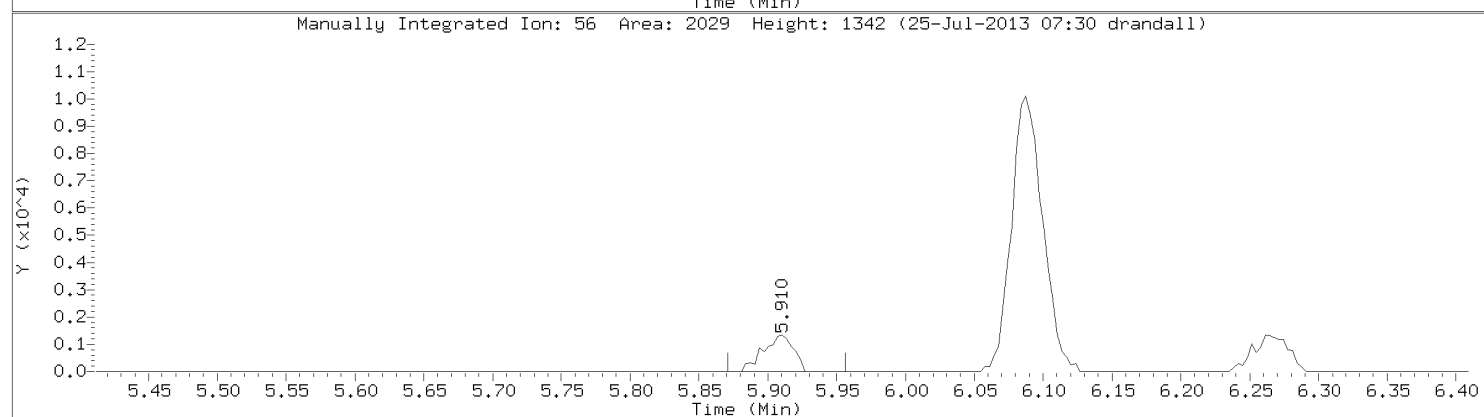
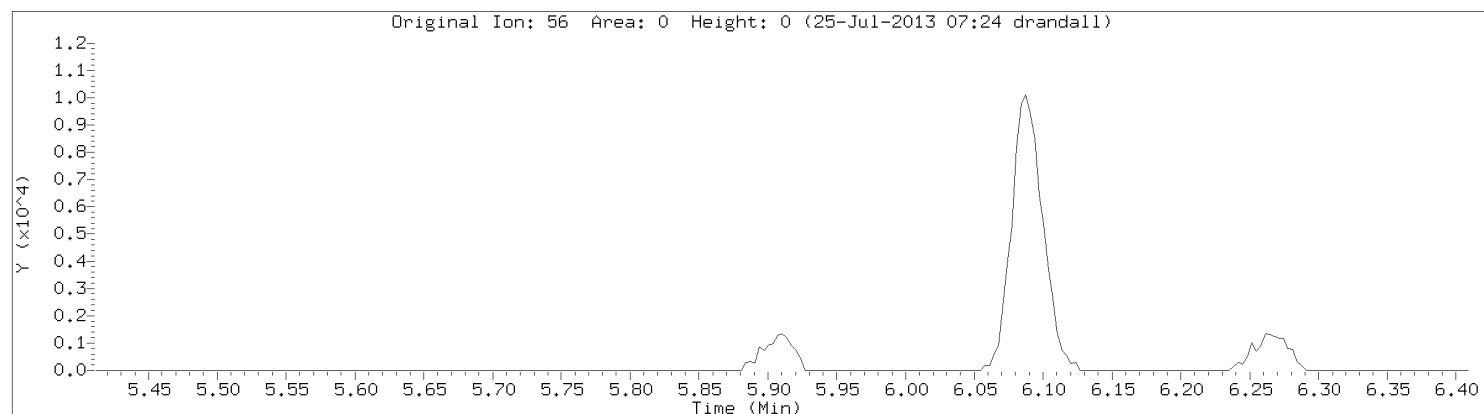
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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

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

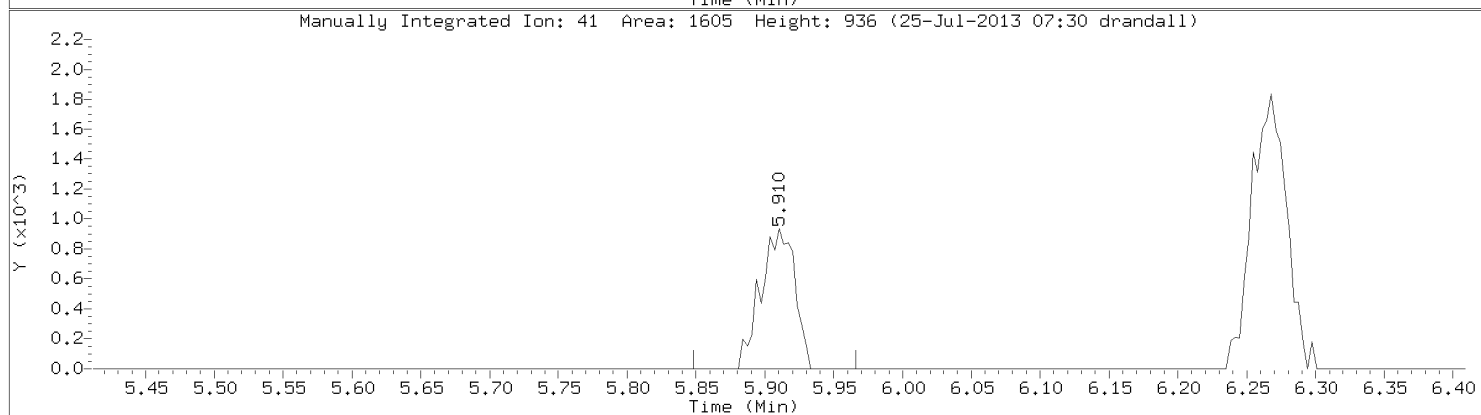
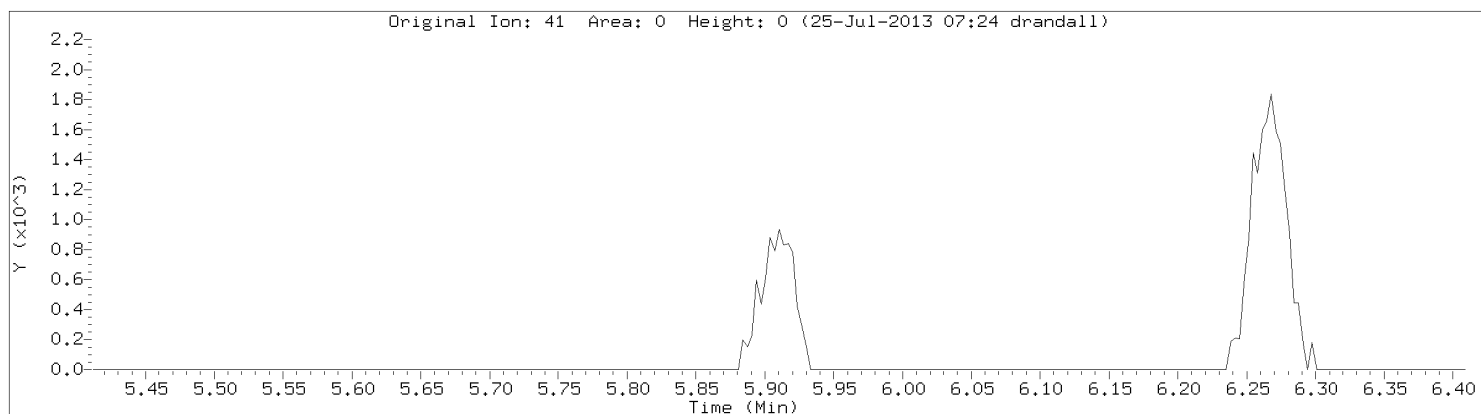


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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Cyclohexane
CAS Number: 110-82-7

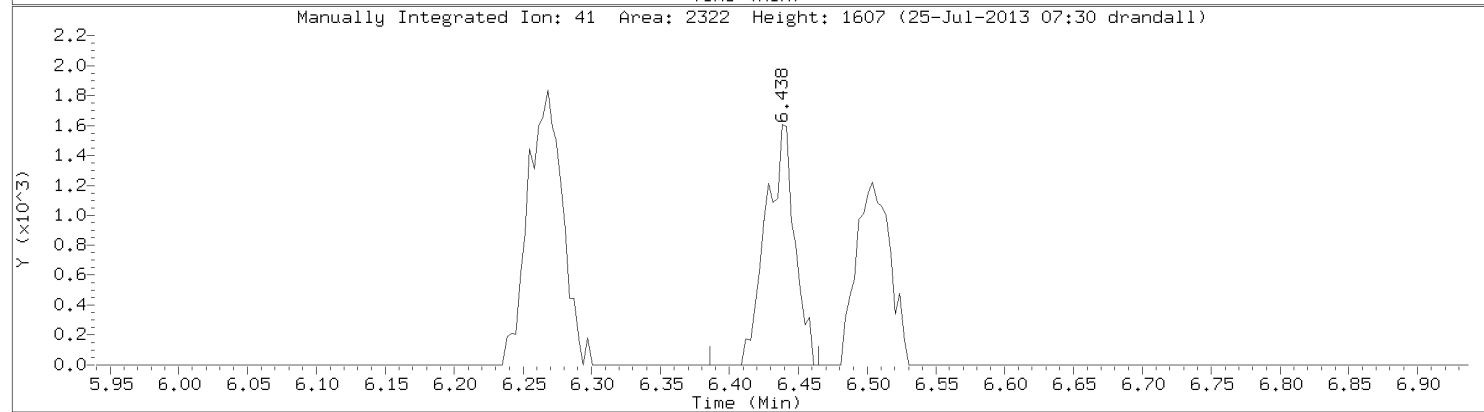
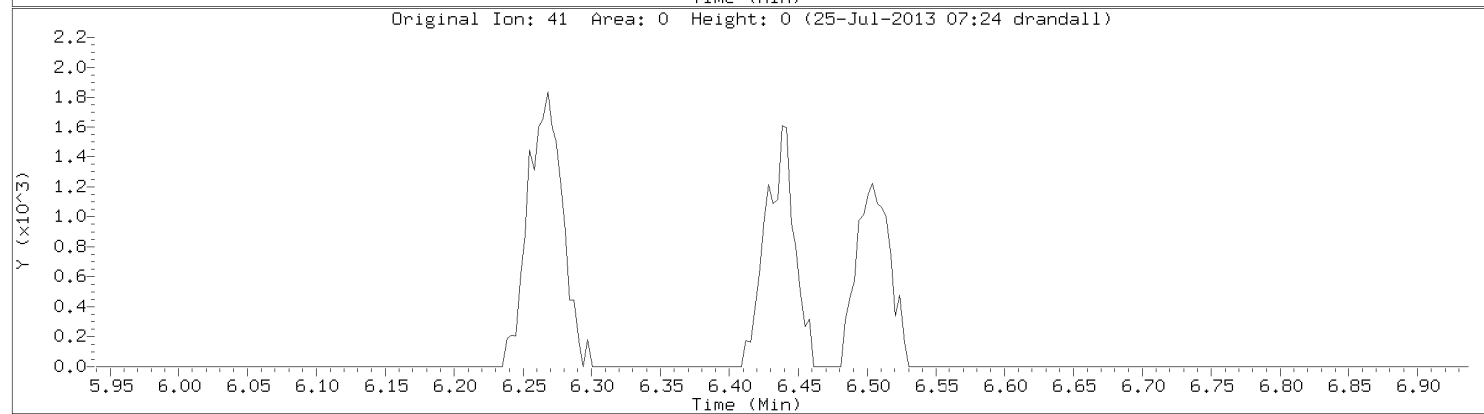
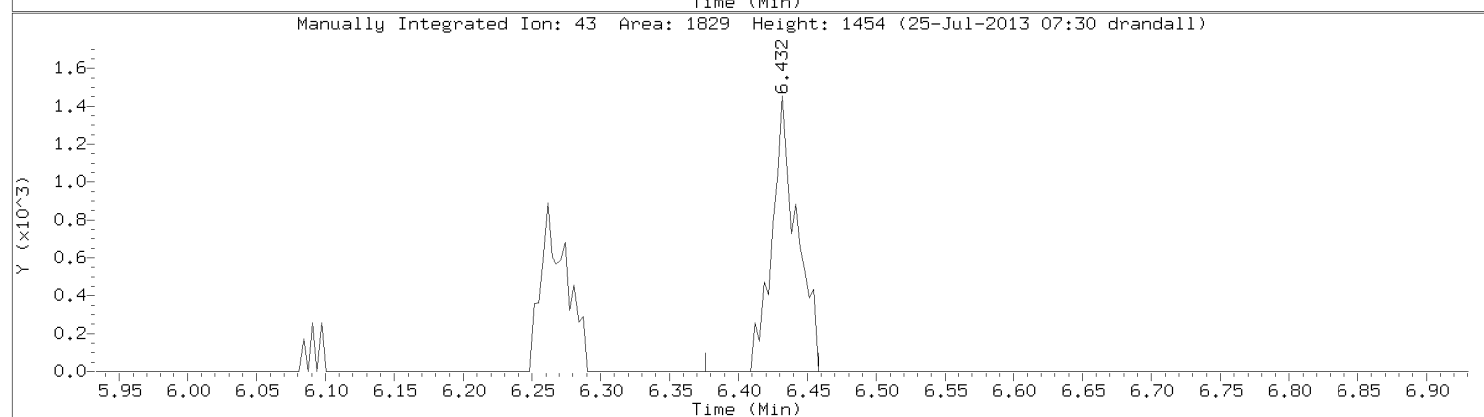
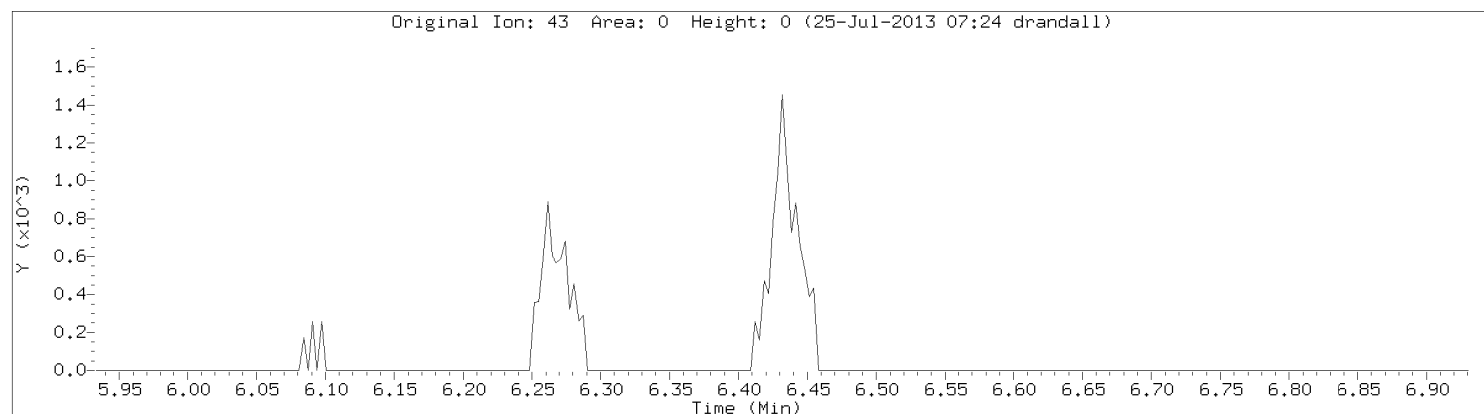


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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2



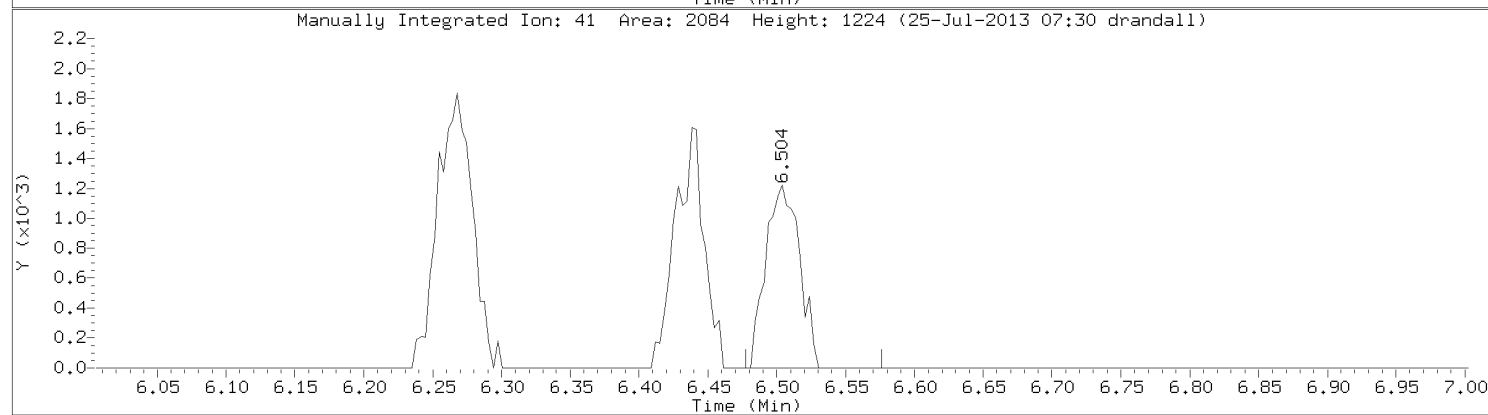
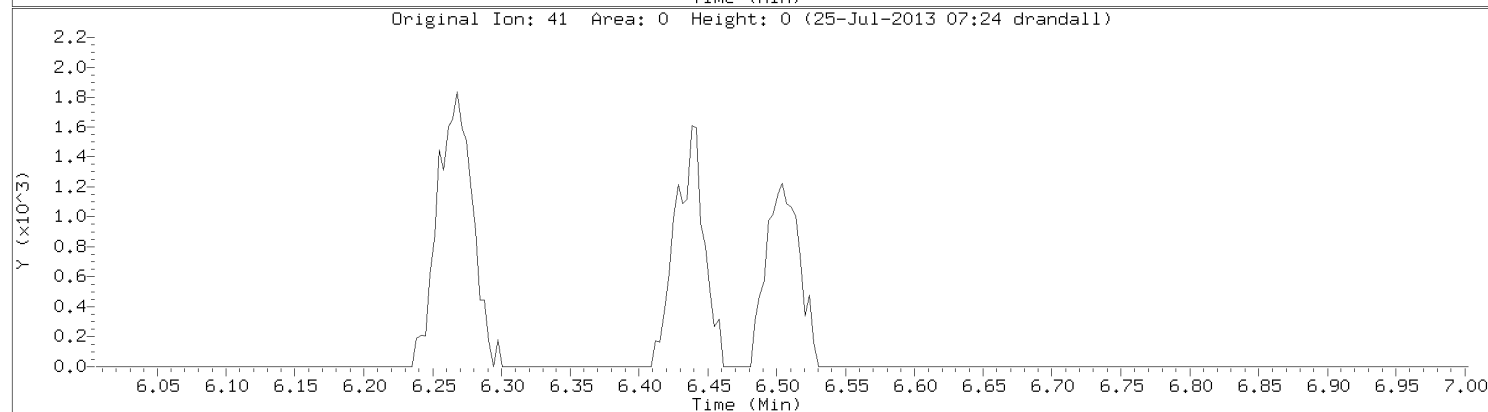
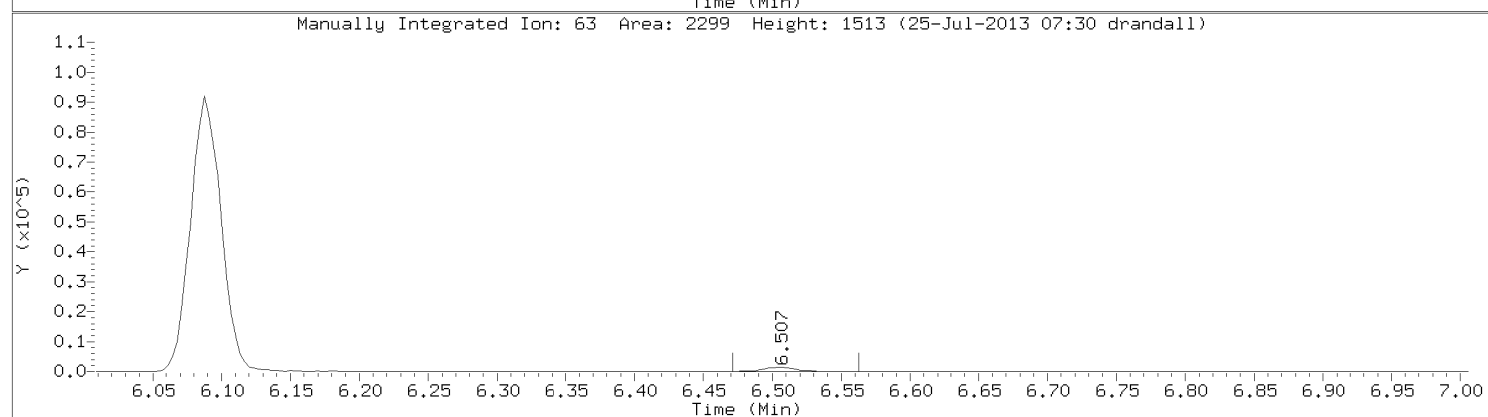
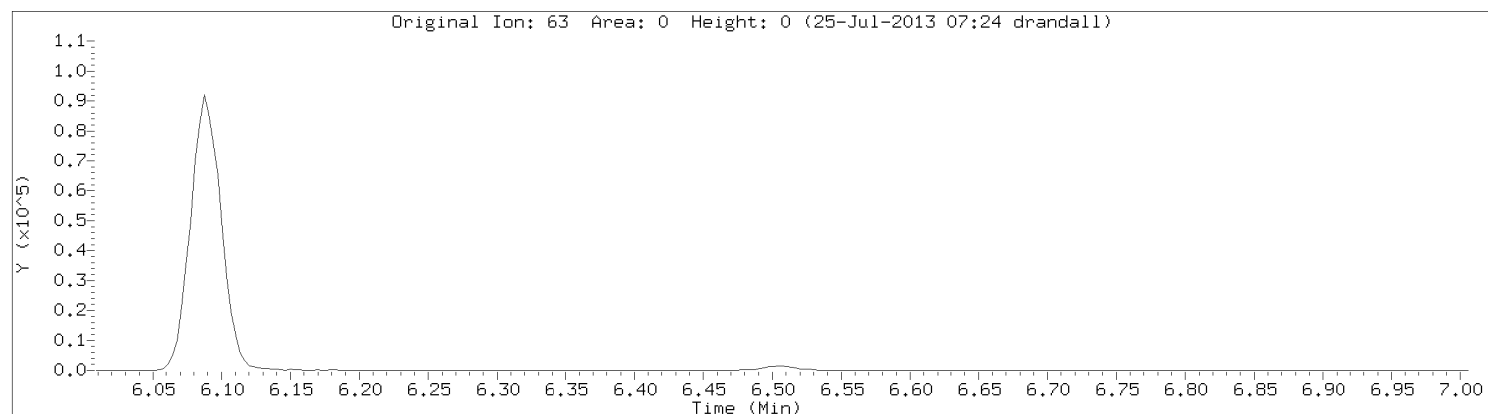
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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Heptane
CAS Number: 142-82-5

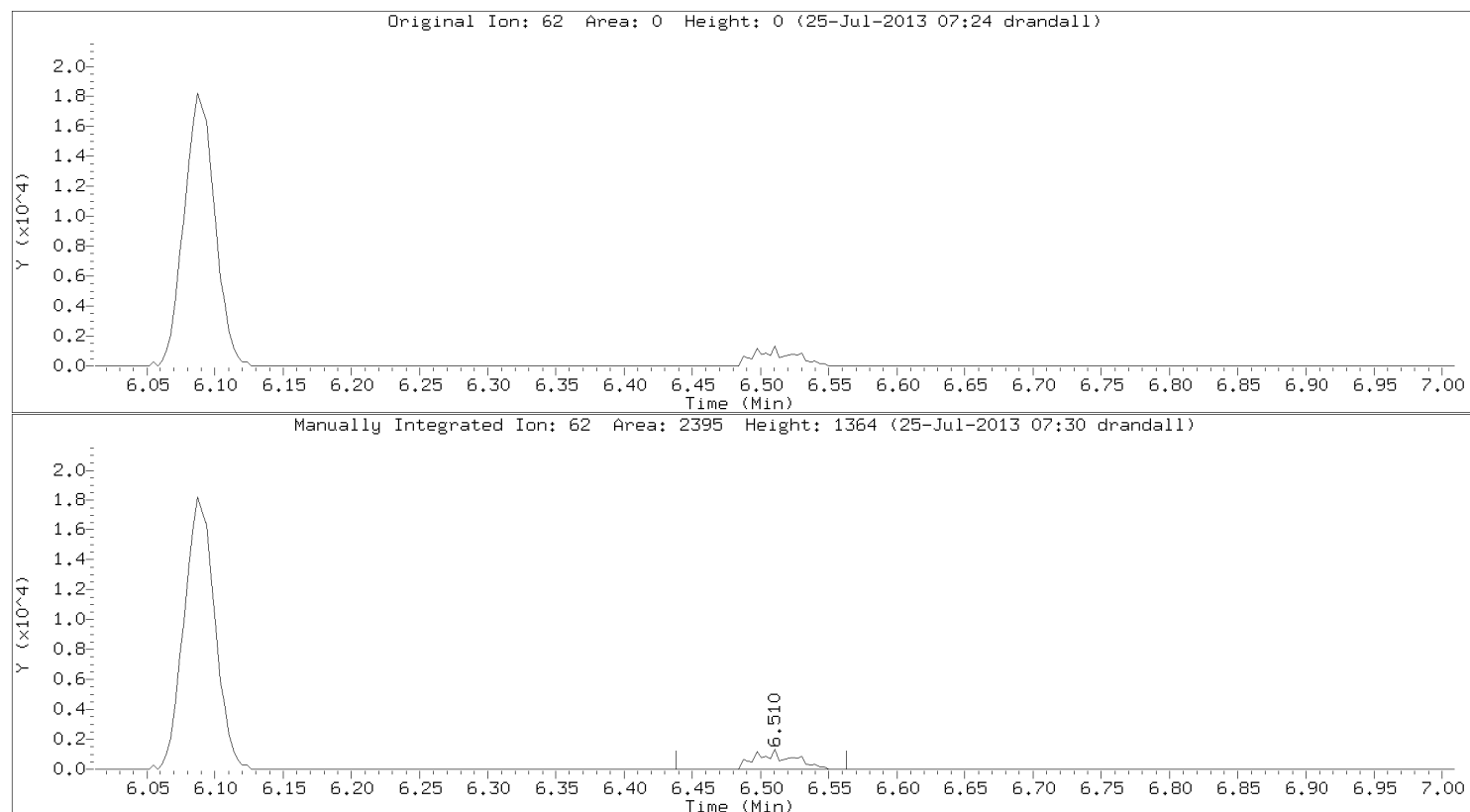


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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

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

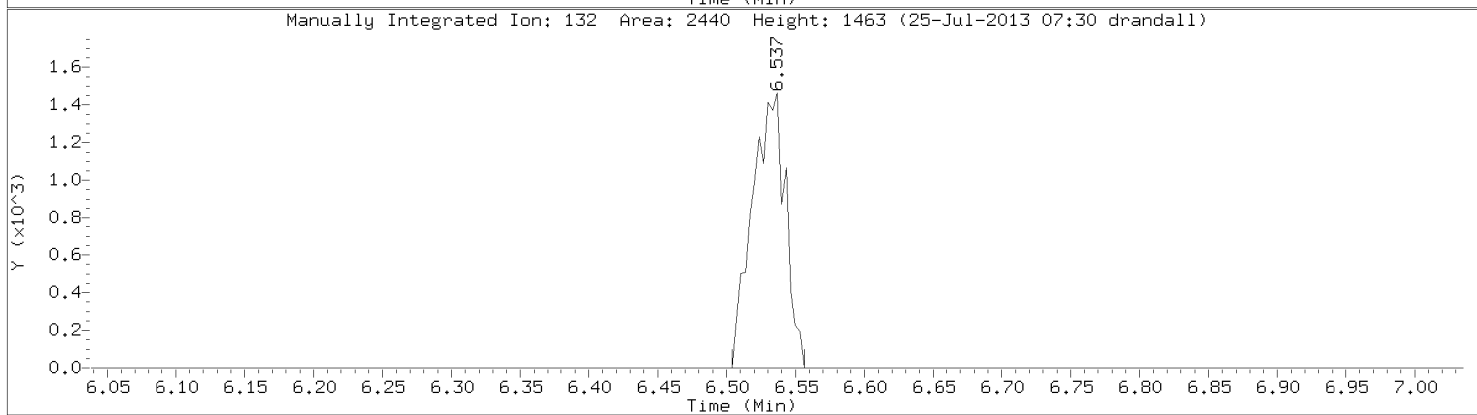
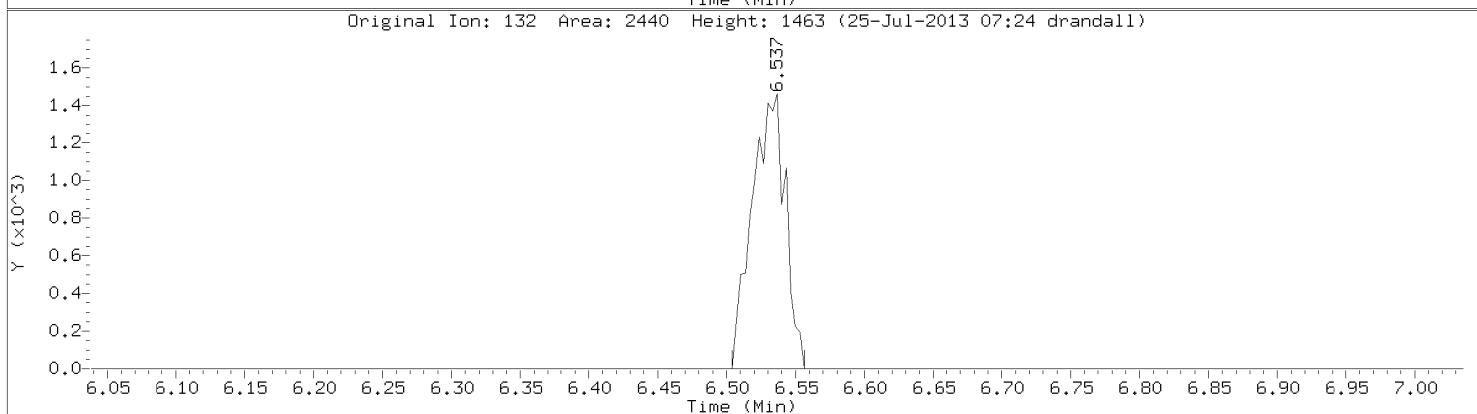
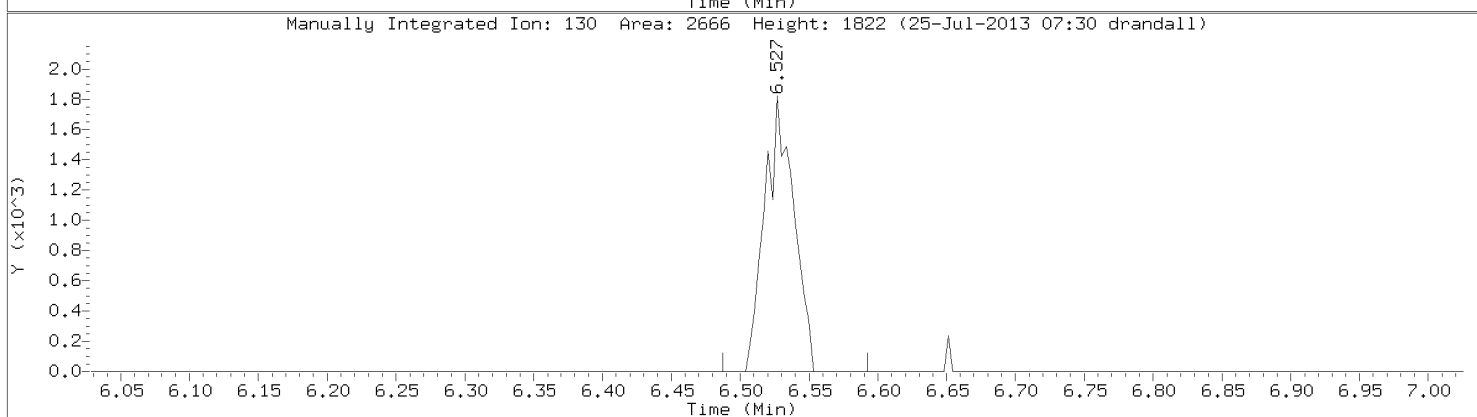
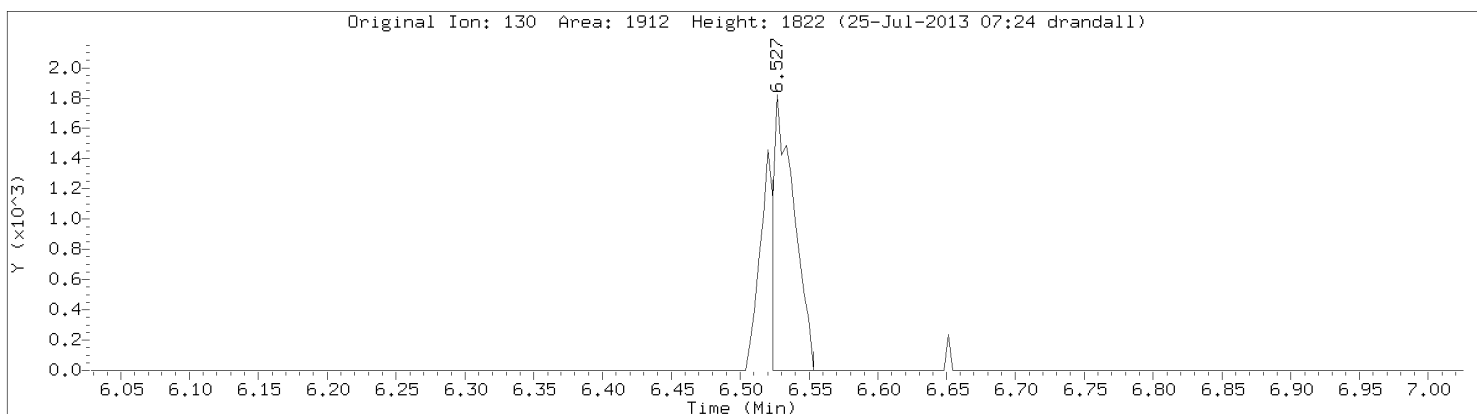


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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

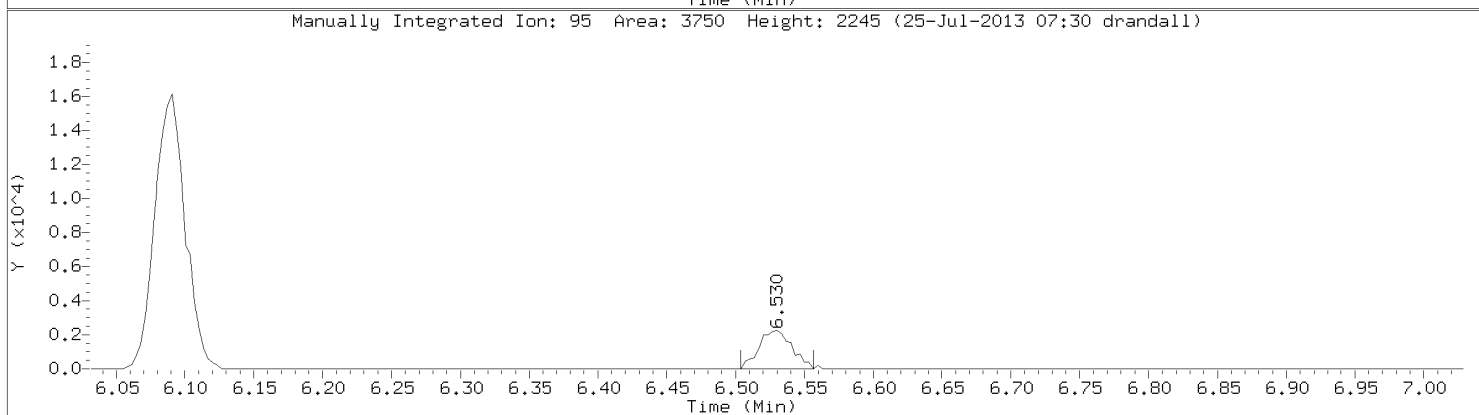
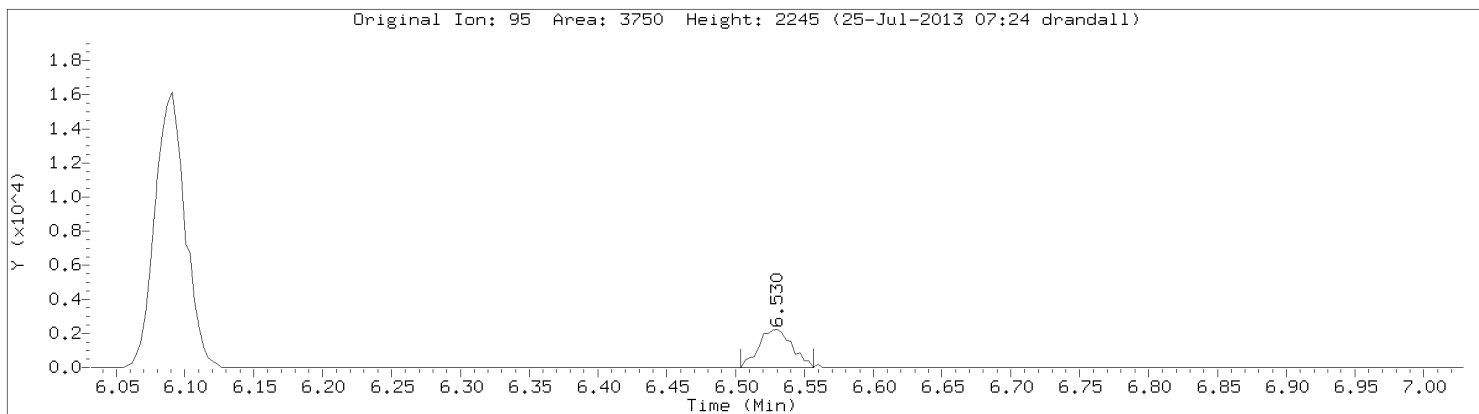


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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Trichloroethene
CAS Number: 79-01-6

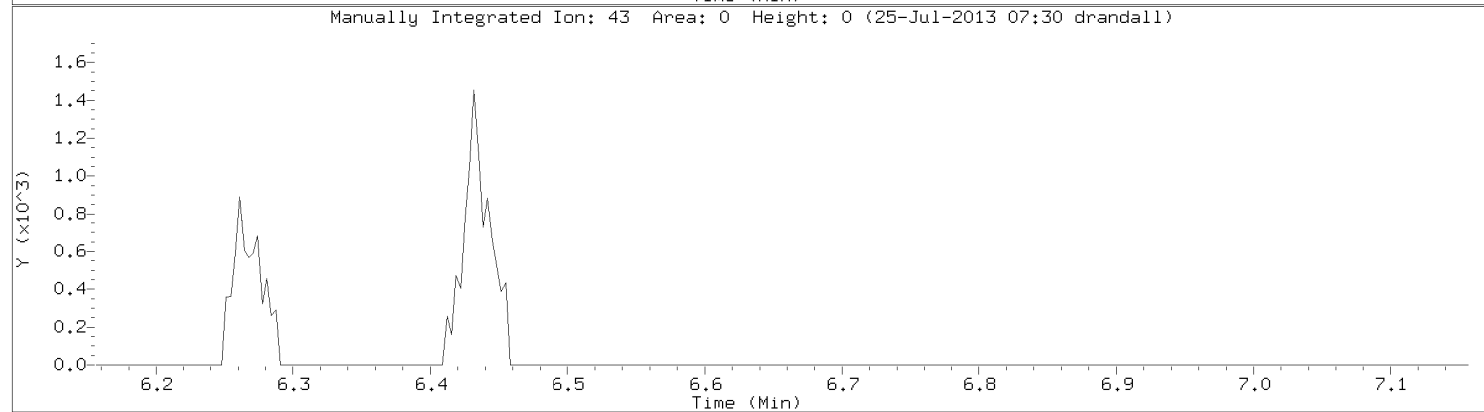
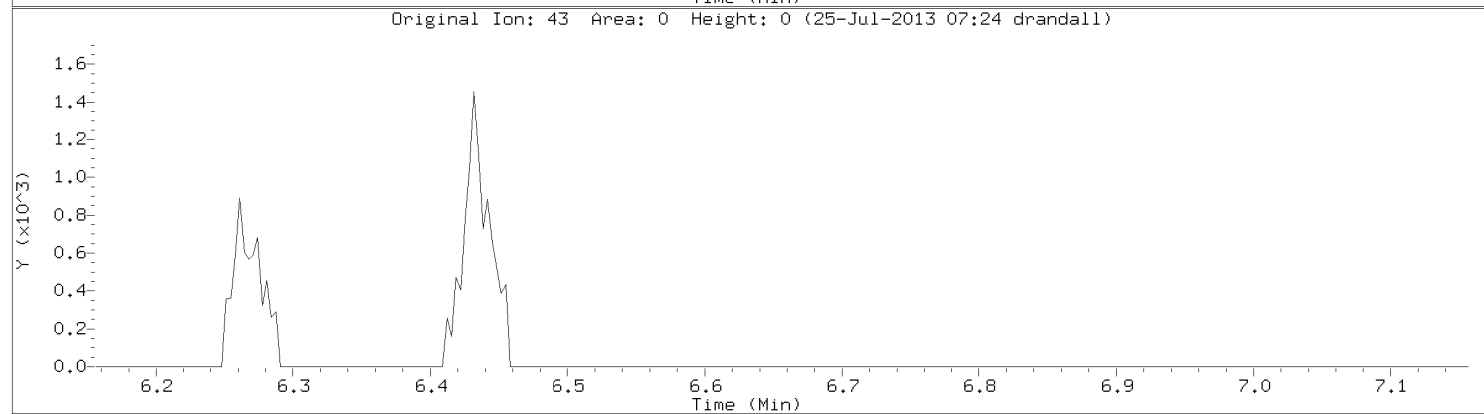
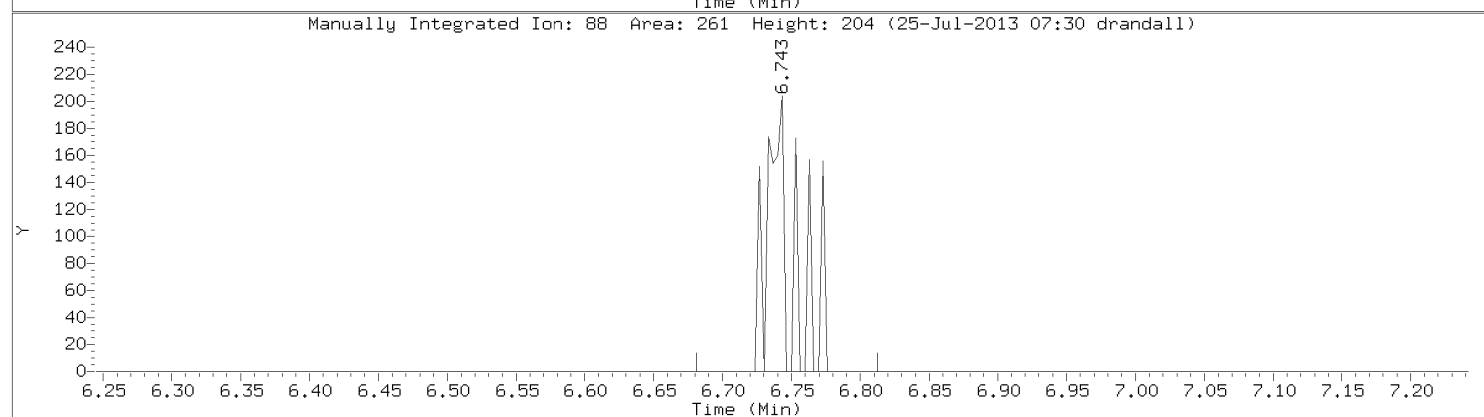
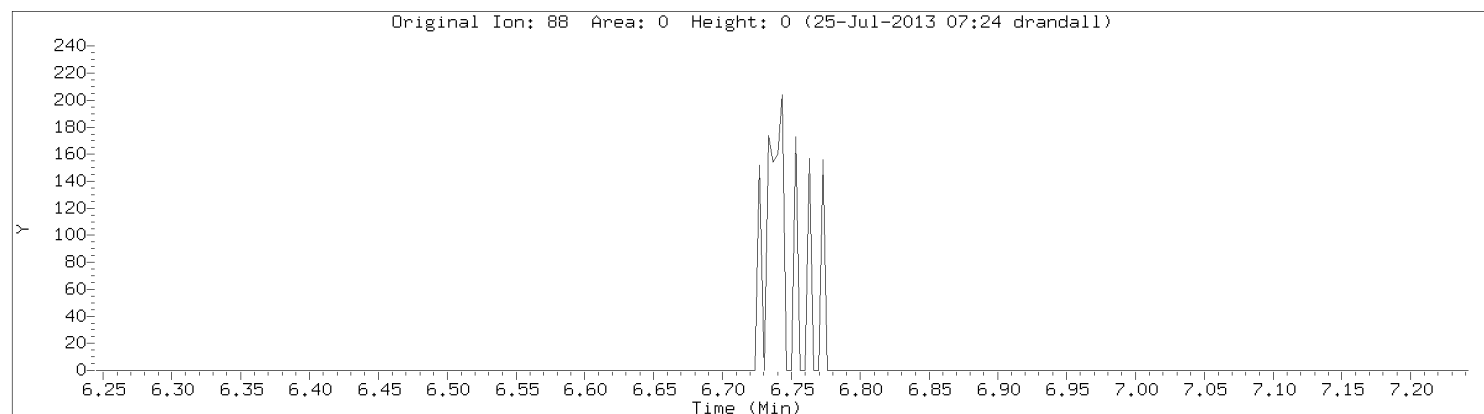


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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2



Data File: \\192.168.10.12\chem\10airD.i\072413.b\20505.d
Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

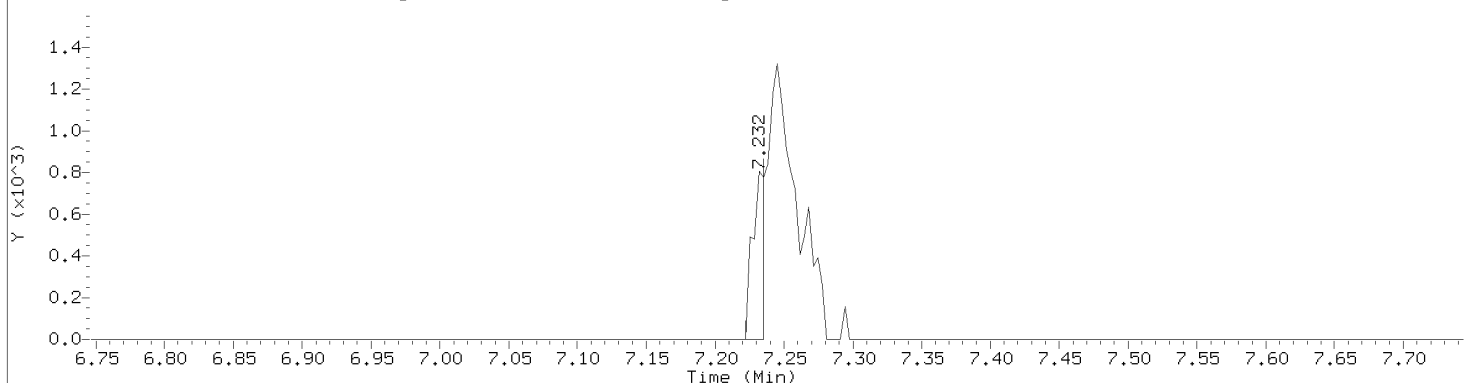
Compound: 1,4-Dioxane
CAS Number: 123-91-1



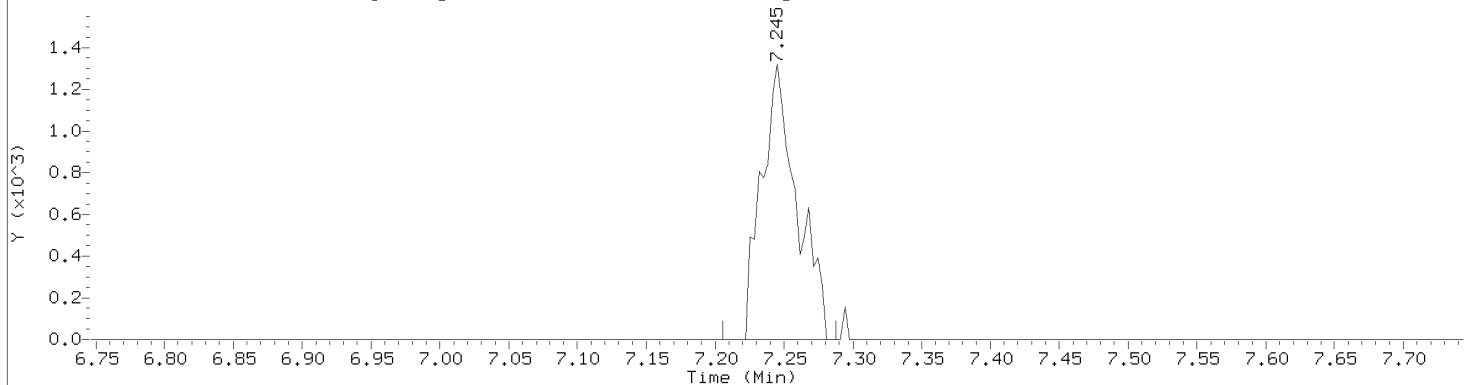
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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

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

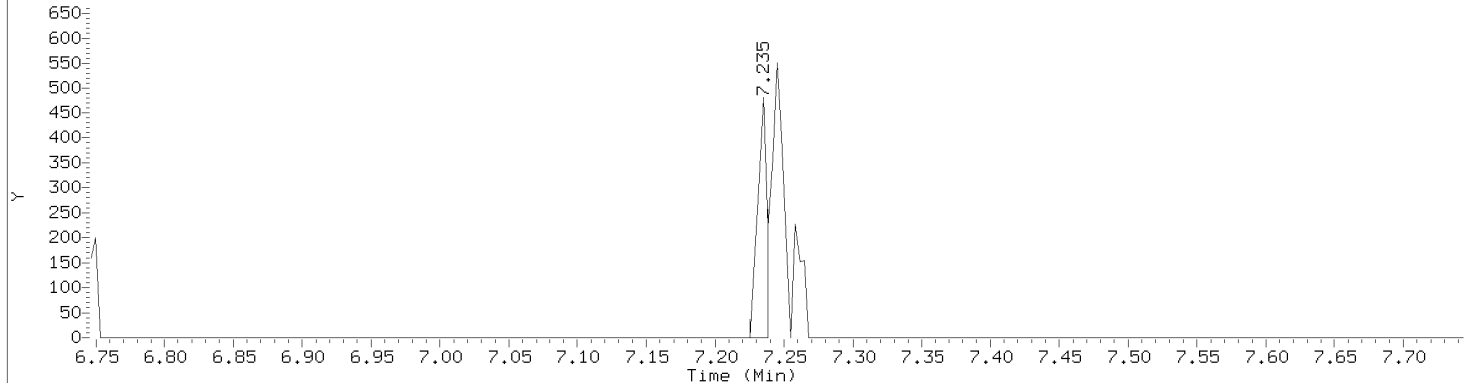
Original Ion: 43 Area: 502 Height: 805 (25-Jul-2013 07:24 drandall)



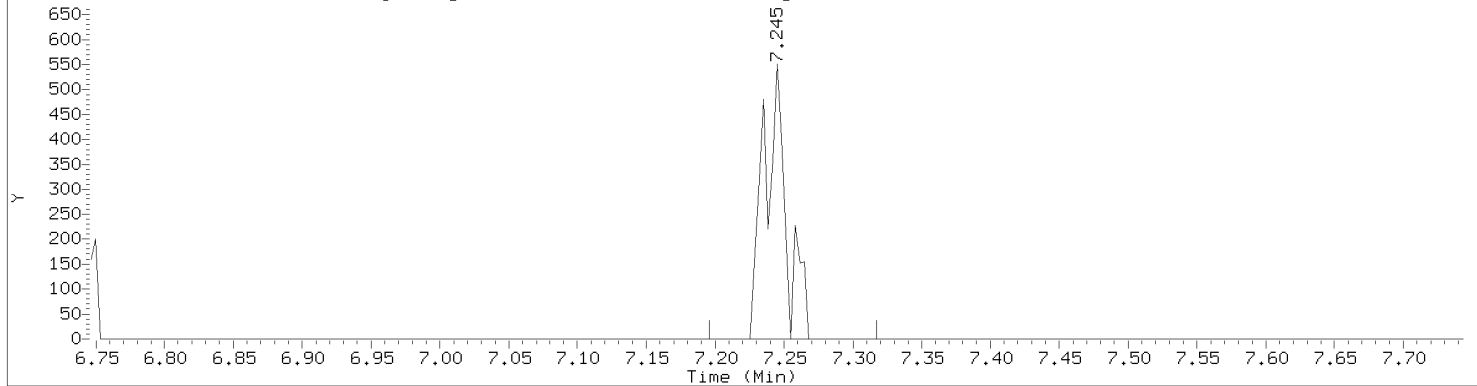
Manually Integrated Ion: 43 Area: 2363 Height: 1321 (25-Jul-2013 07:30 drandall)



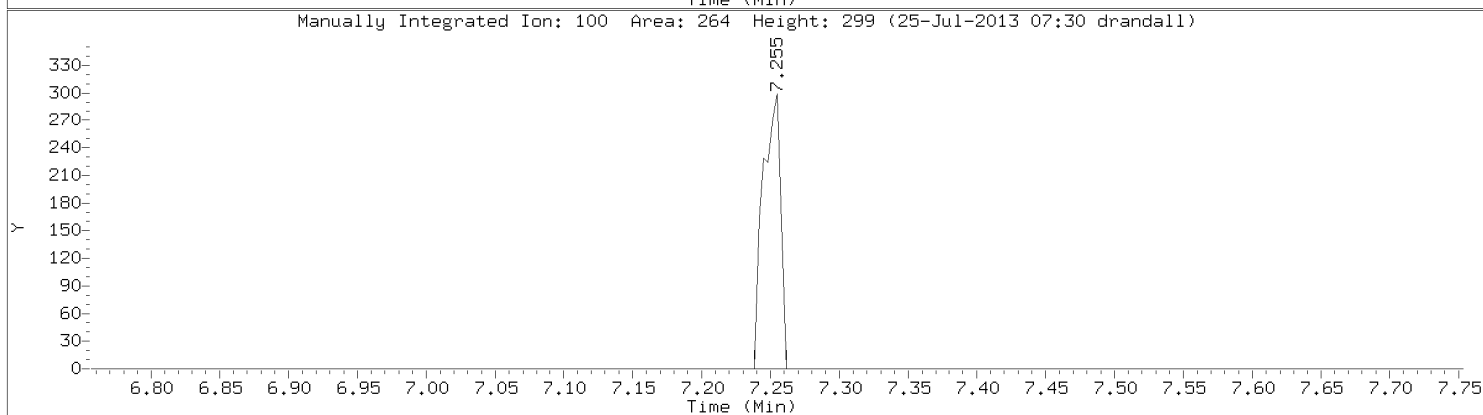
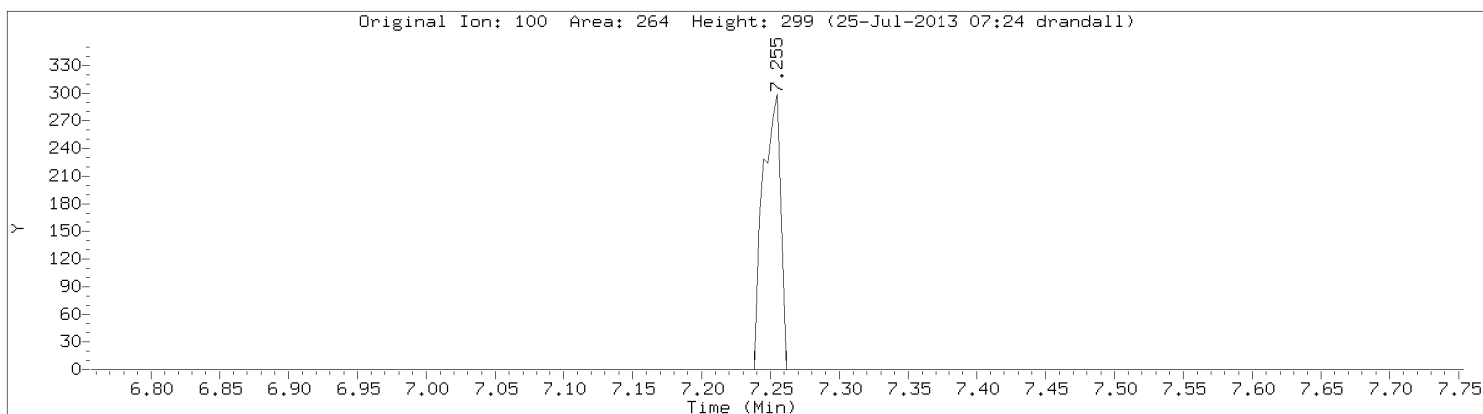
Original Ion: 58 Area: 230 Height: 481 (25-Jul-2013 07:24 drandall)



Manually Integrated Ion: 58 Area: 630 Height: 551 (25-Jul-2013 07:30 drandall)

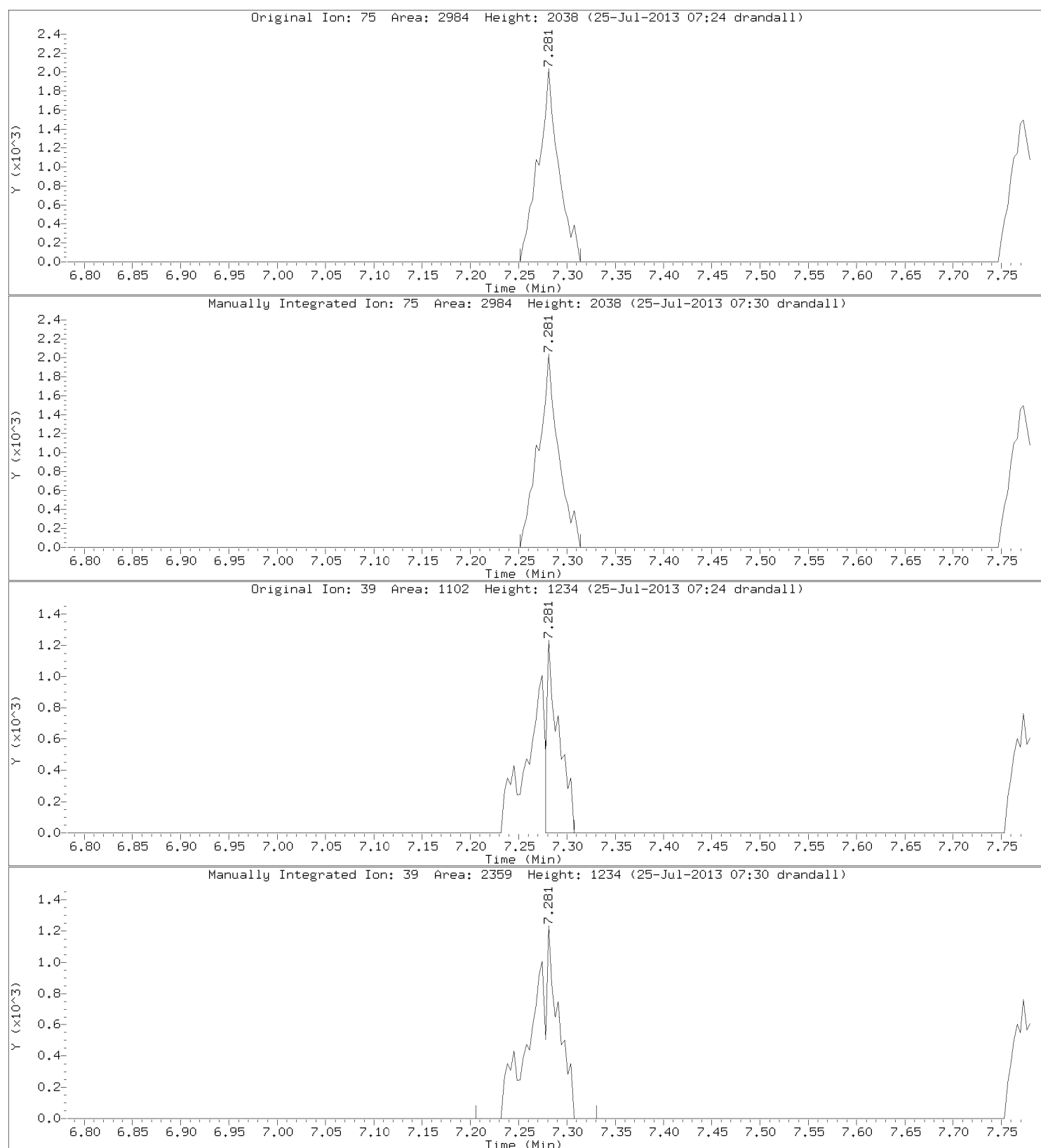


Data File: \\192.168.10.12\chem\10airD.i\072413.b\20505.d
Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

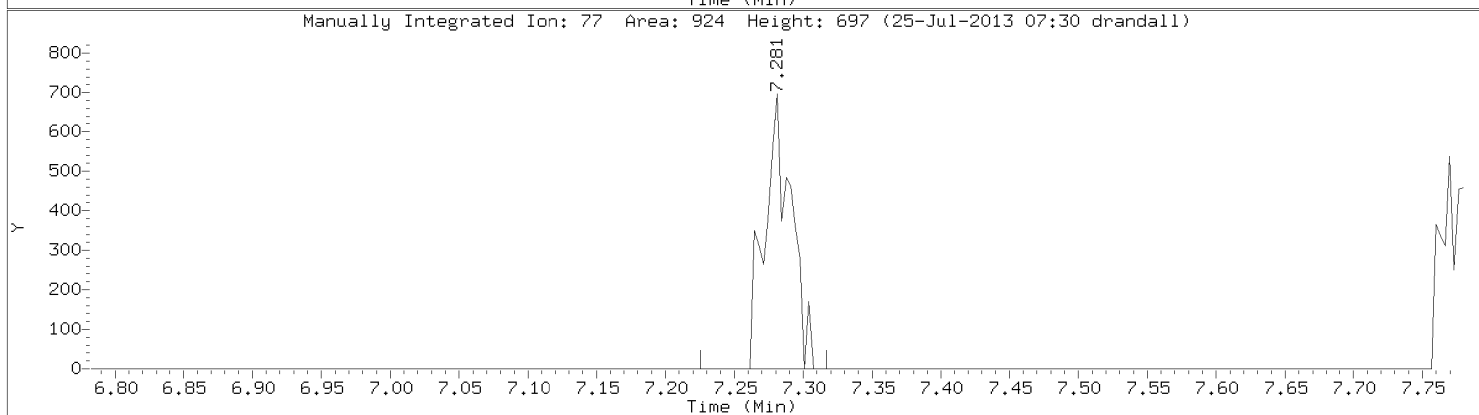
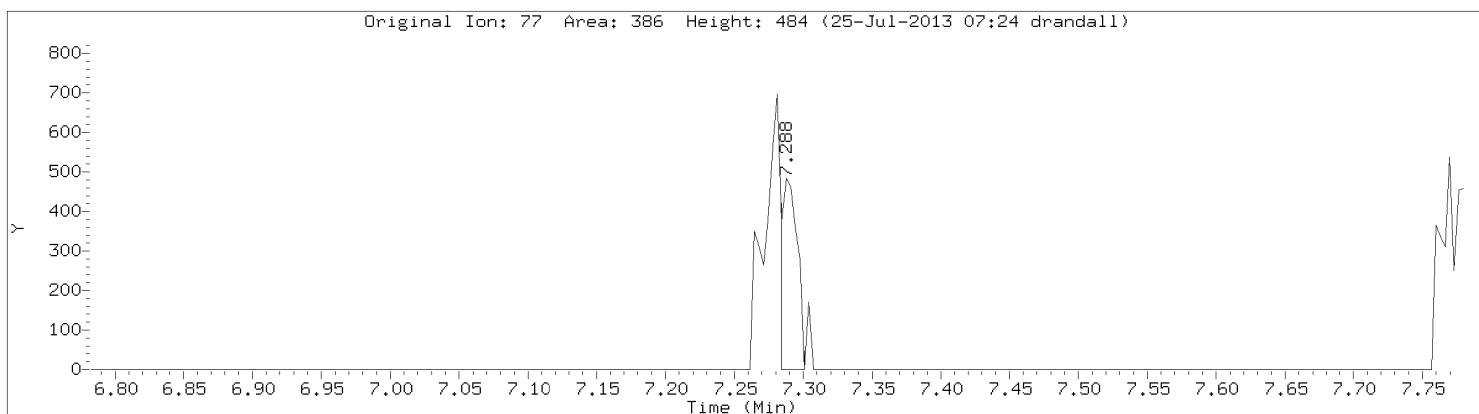


Data File: \\192.168.10.12\chem\10airD.i\072413.b\20505.d
Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

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

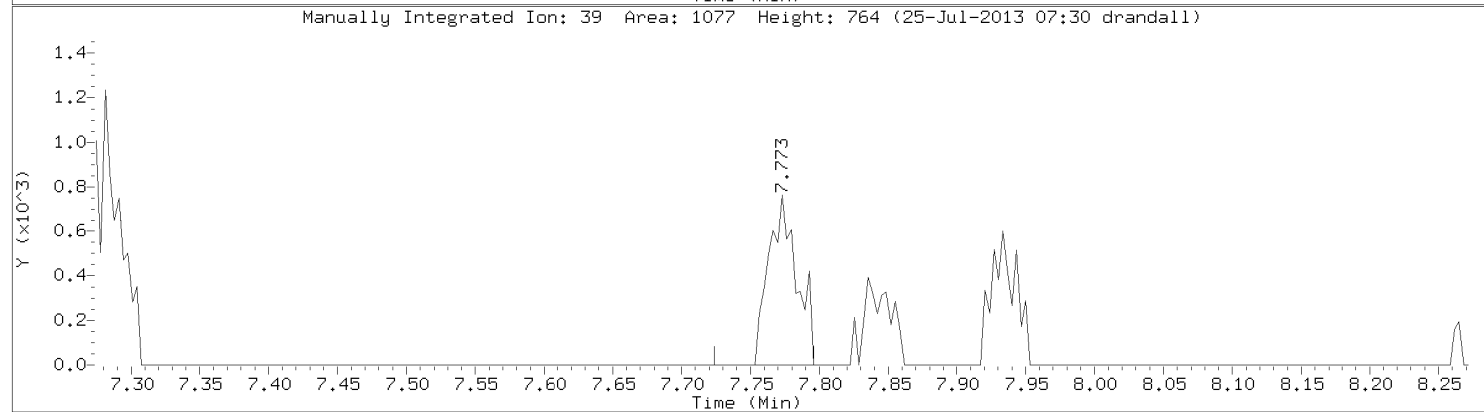
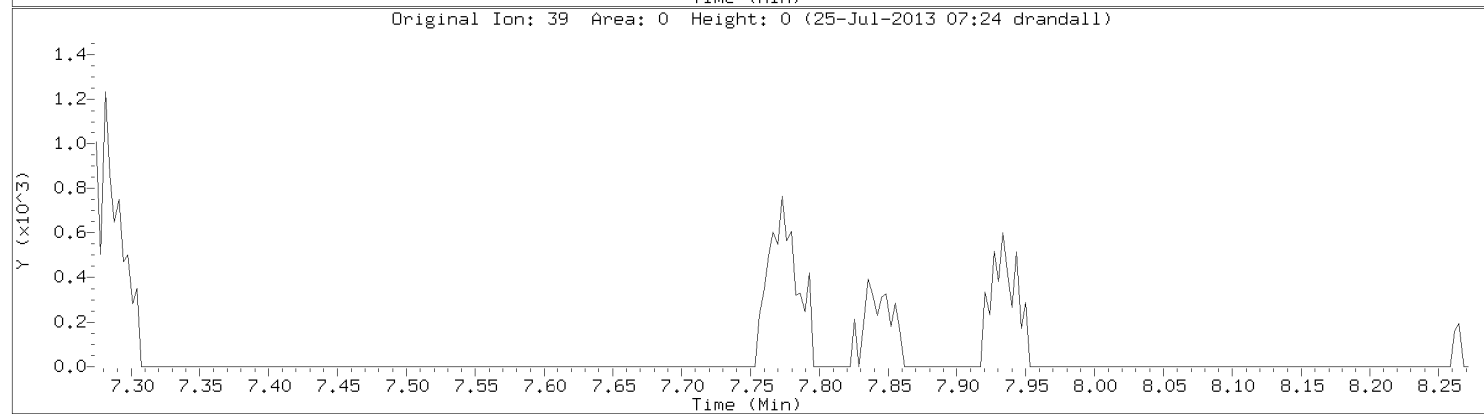
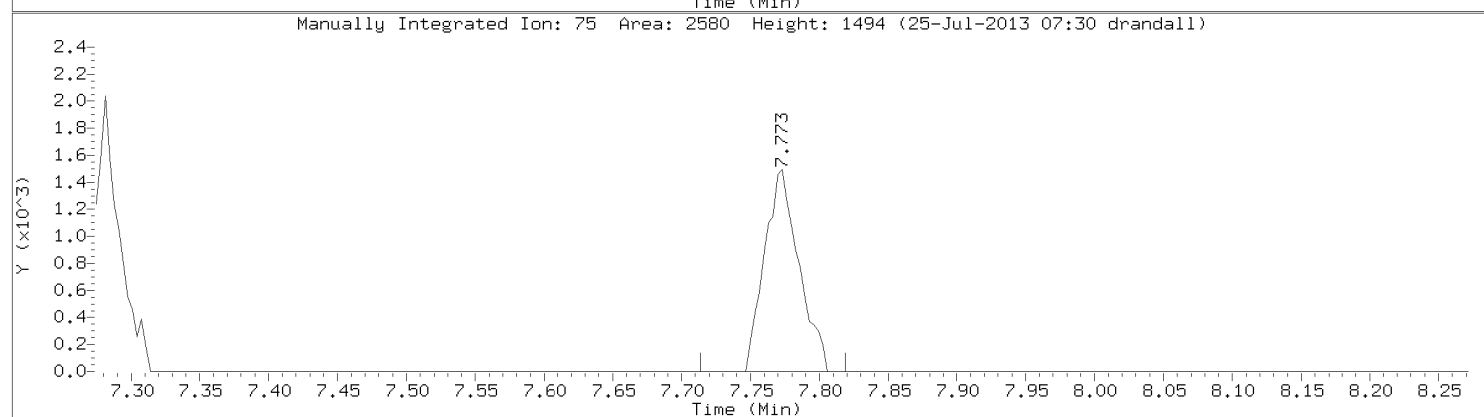
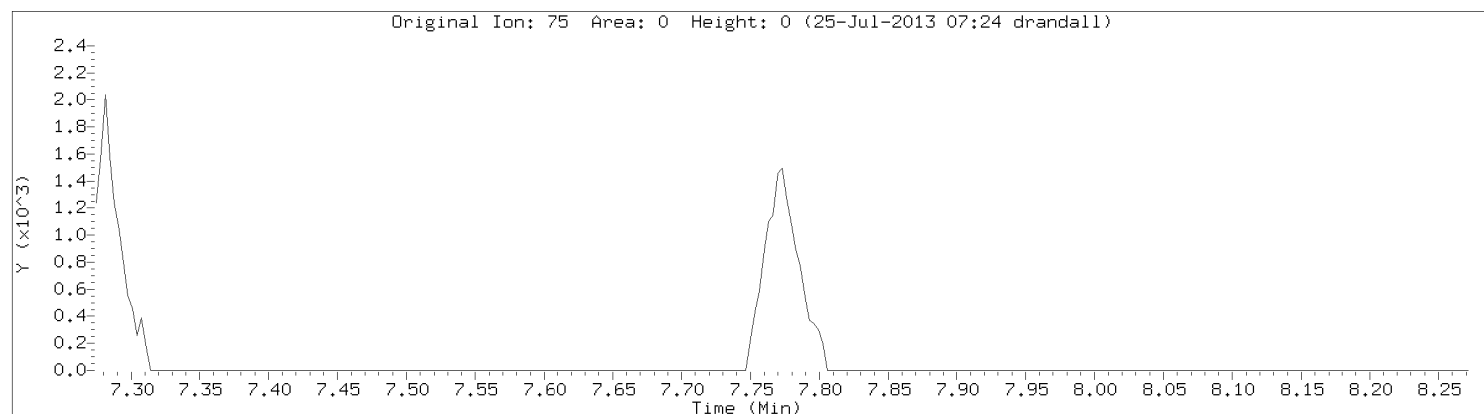


Data File: \\192.168.10.12\chem\10airD.i\072413.b\20505.d
Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

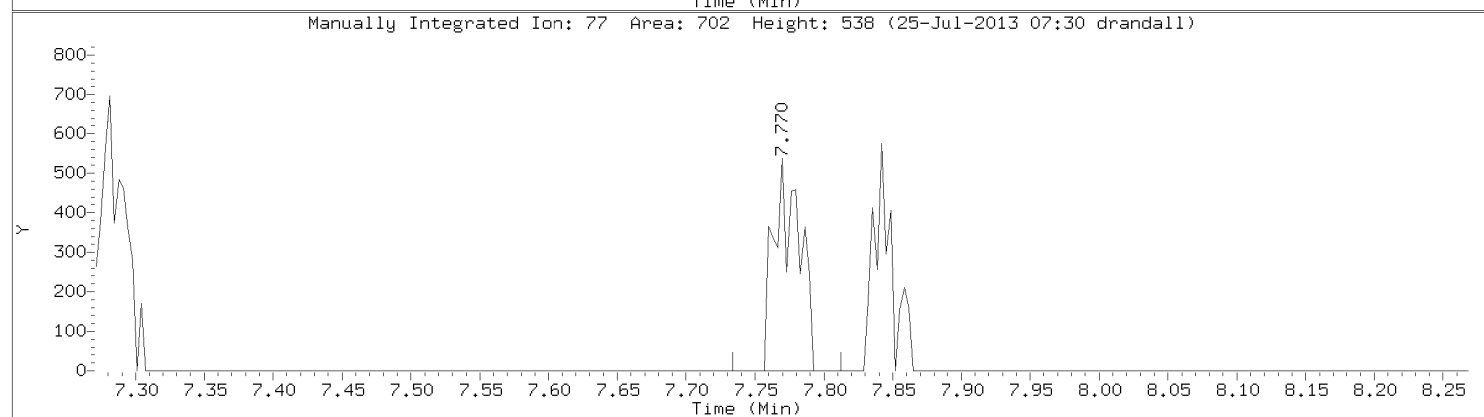
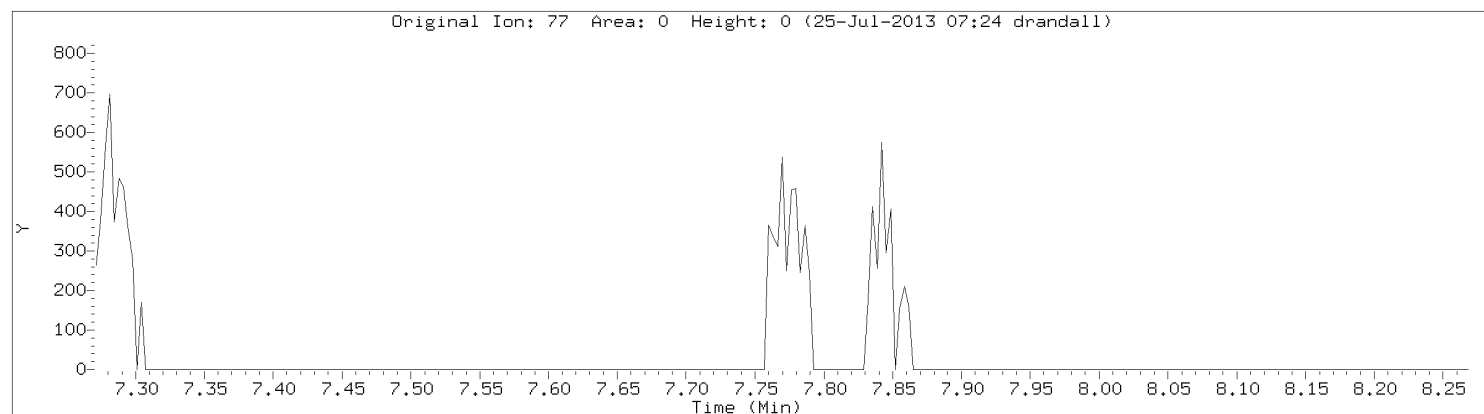


Data File: \\192.168.10.12\chem\10airD.i\072413.b\20505.d
Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

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

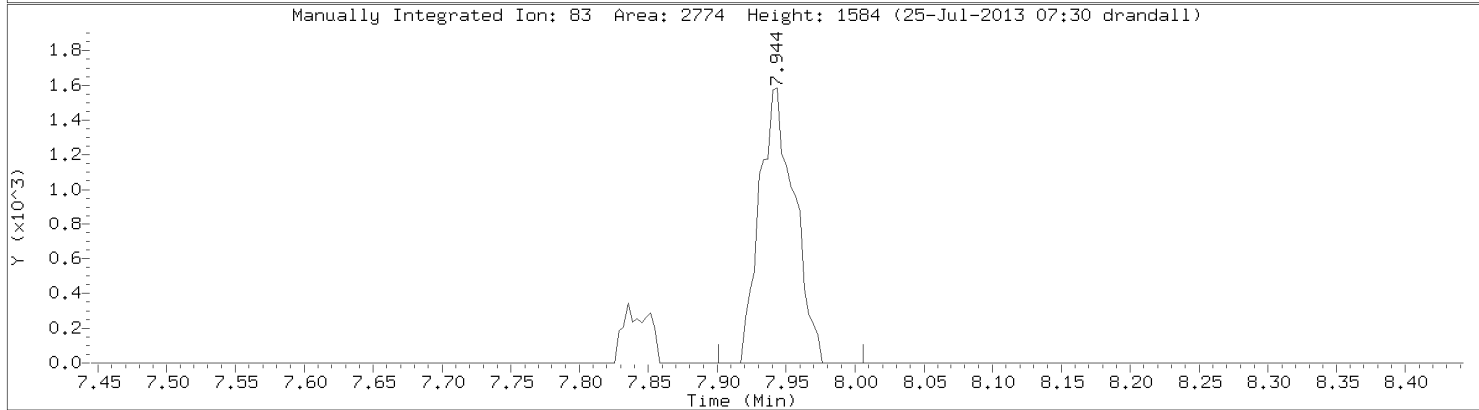
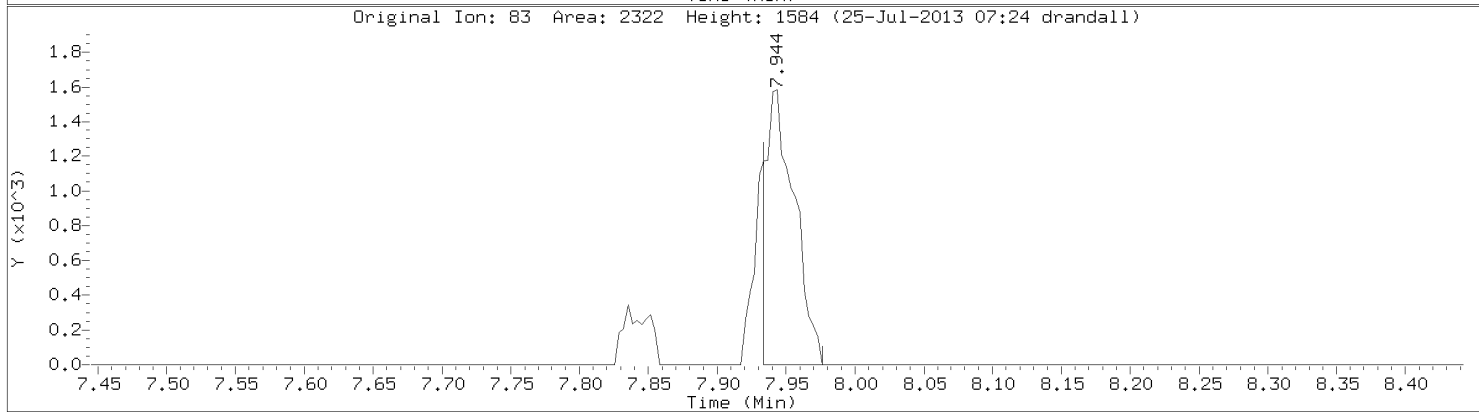
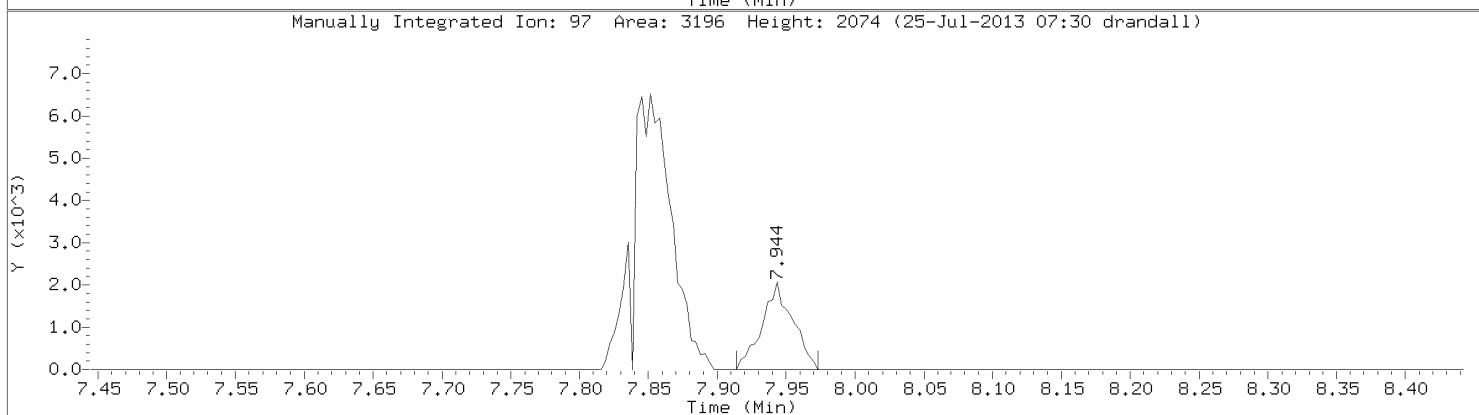
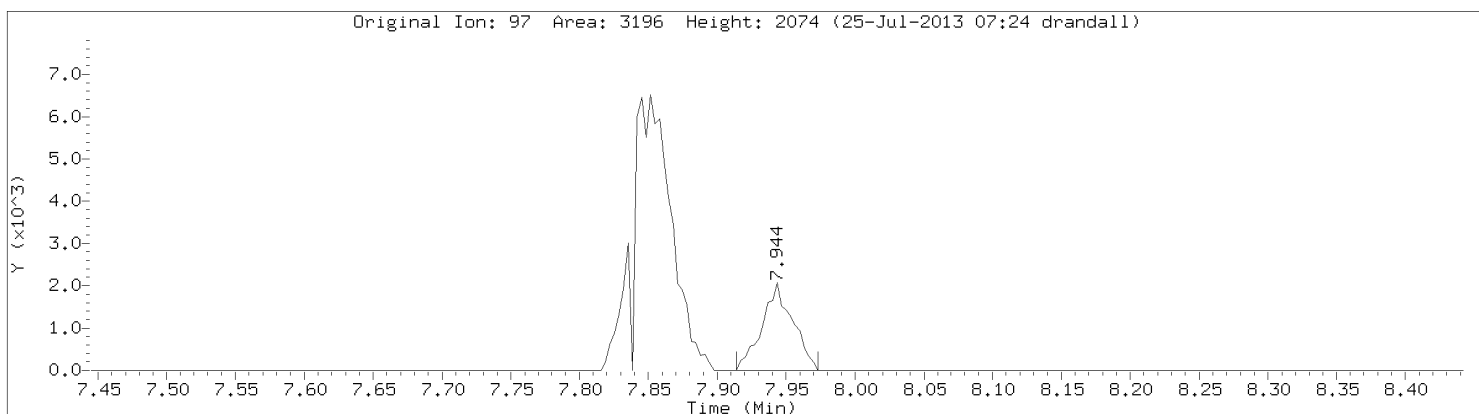


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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

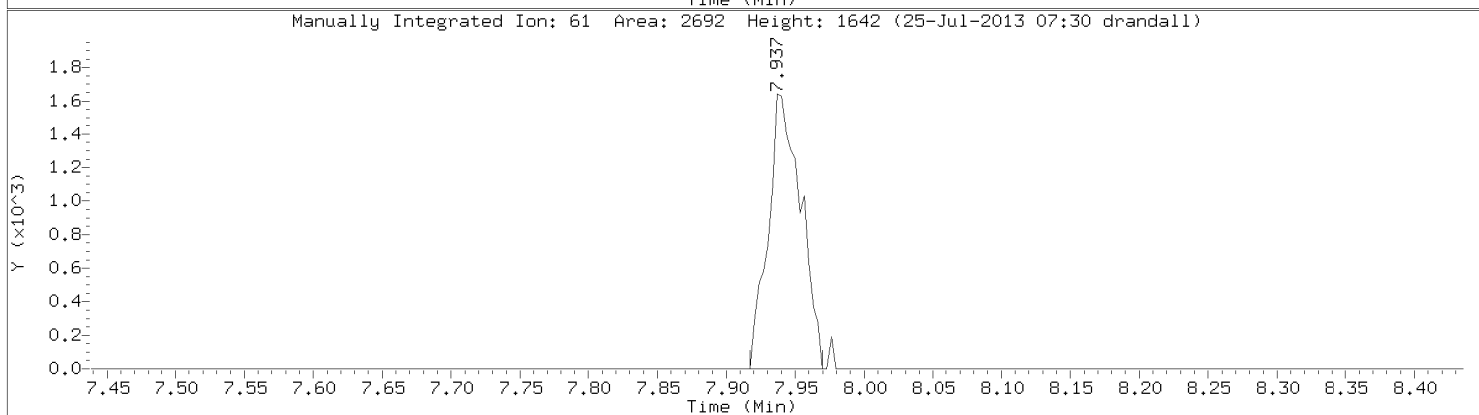
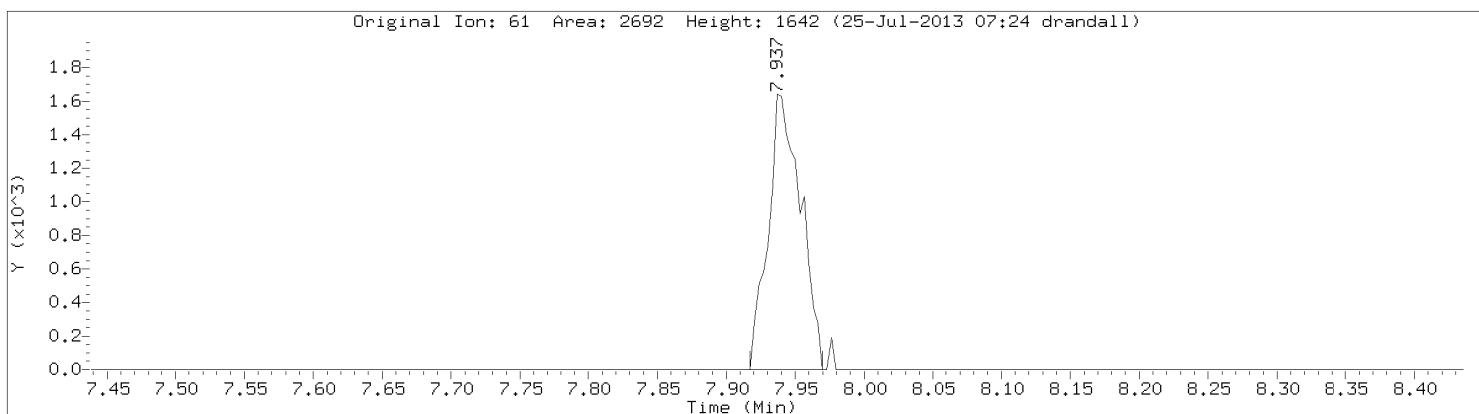


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Instrument: 10airD.i
Lab Sample ID: CAL2

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

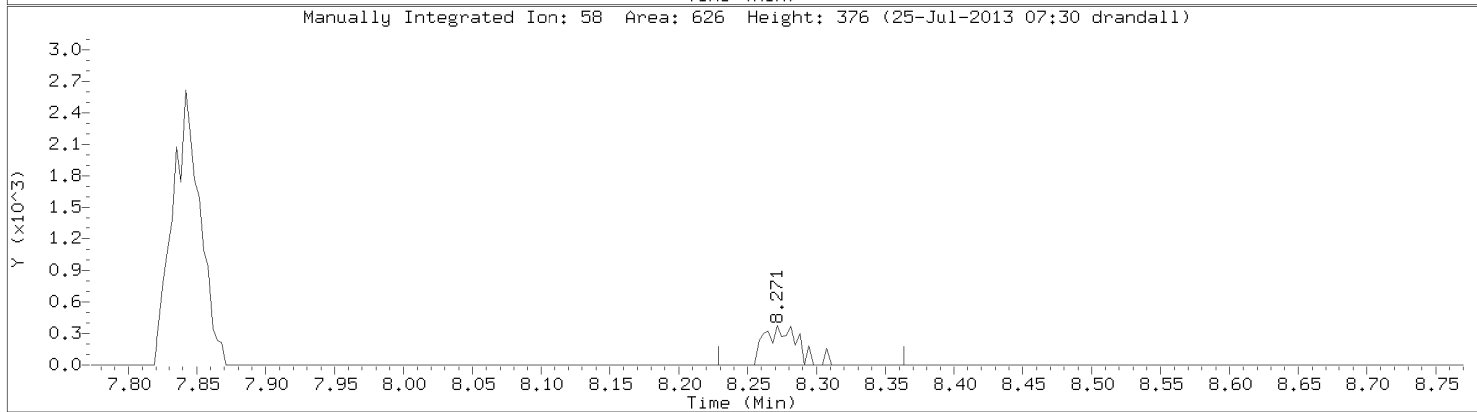
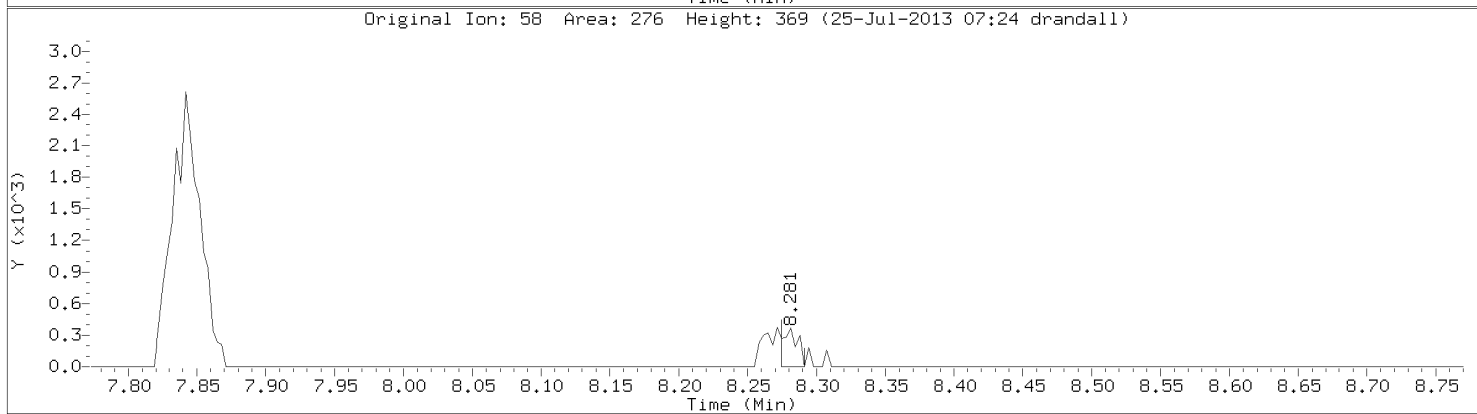
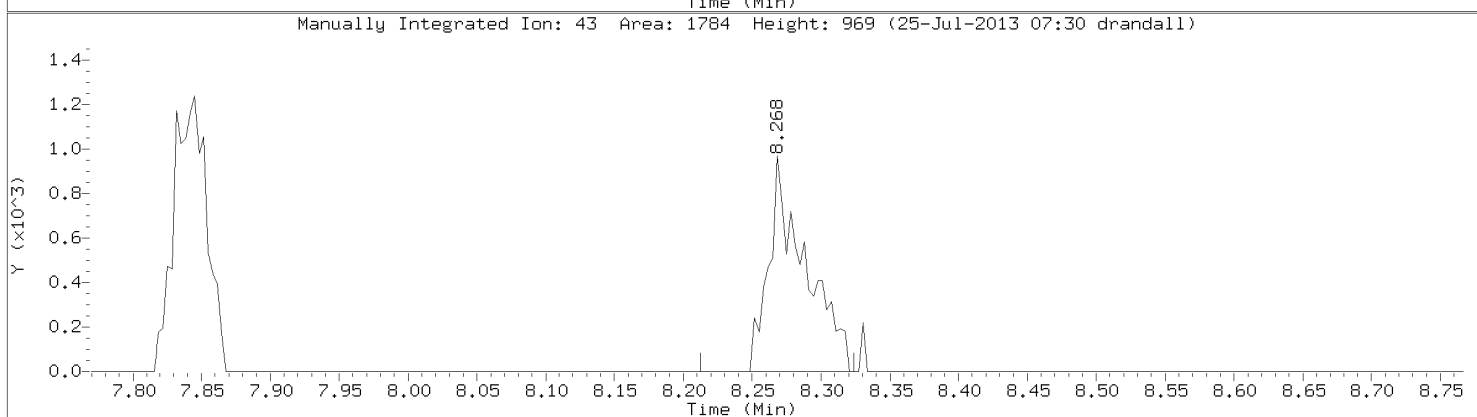
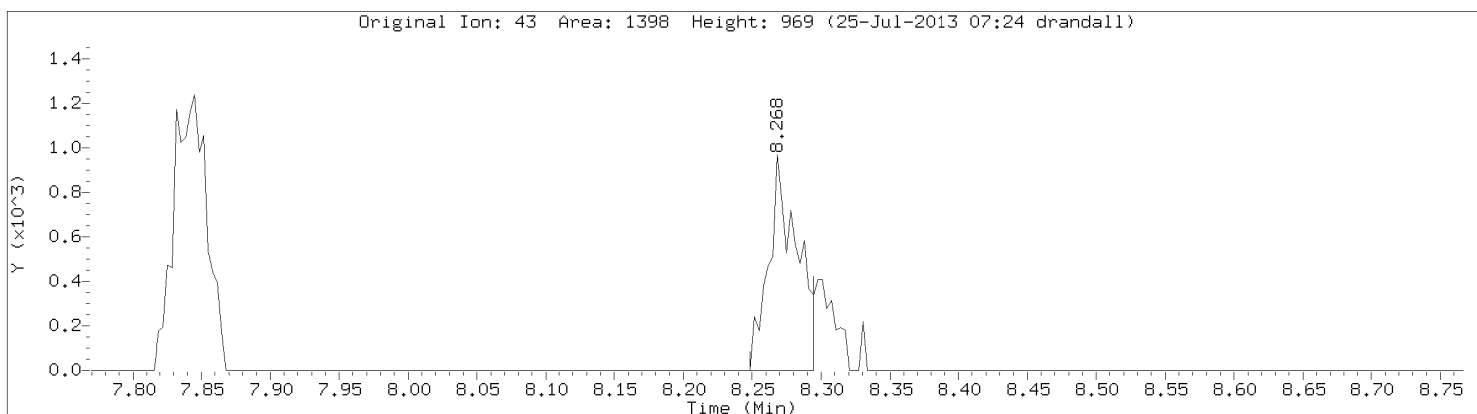


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Lab Sample ID: CAL2



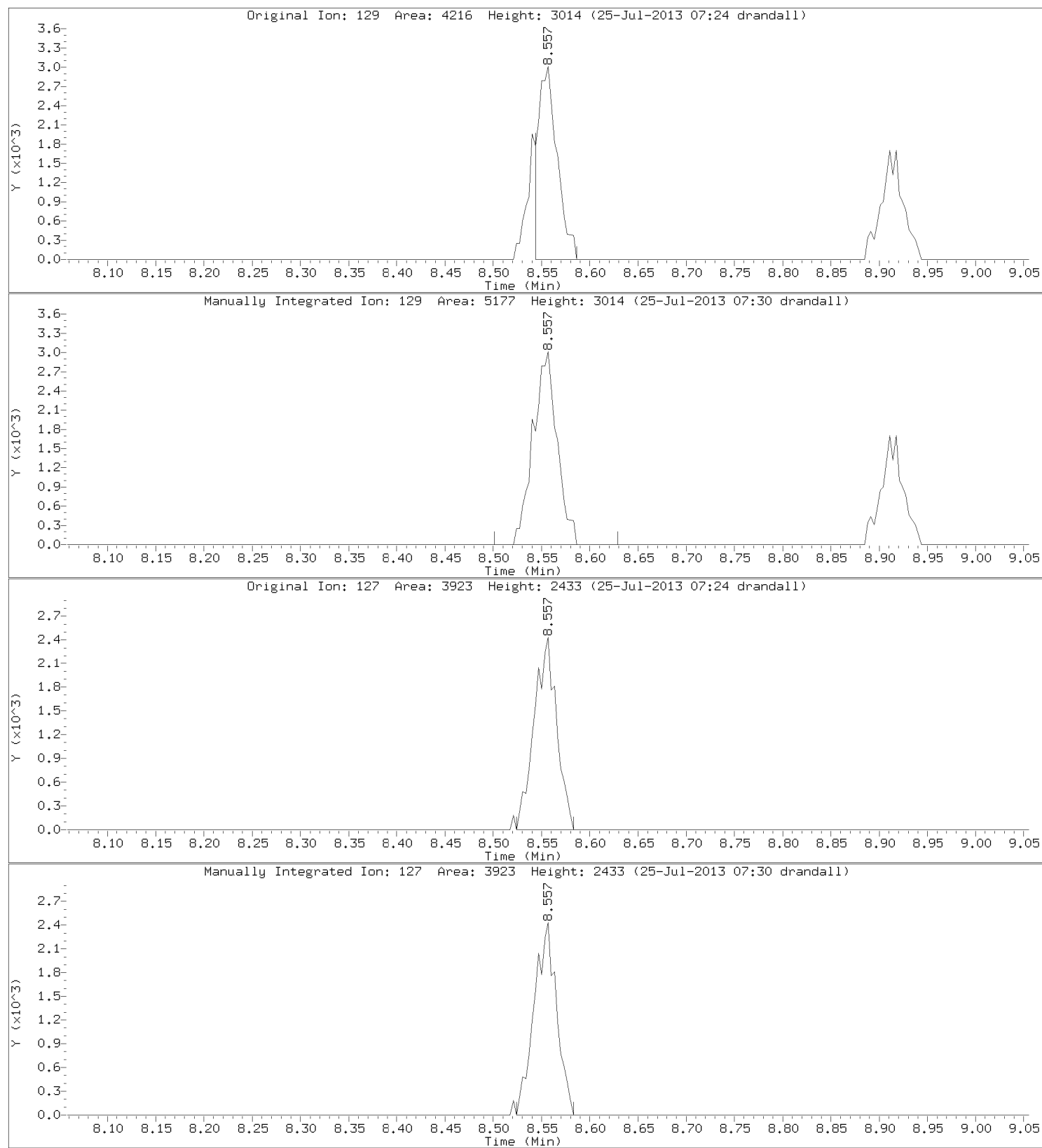
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Instrument: 10airD.i
Lab Sample ID: CAL2

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



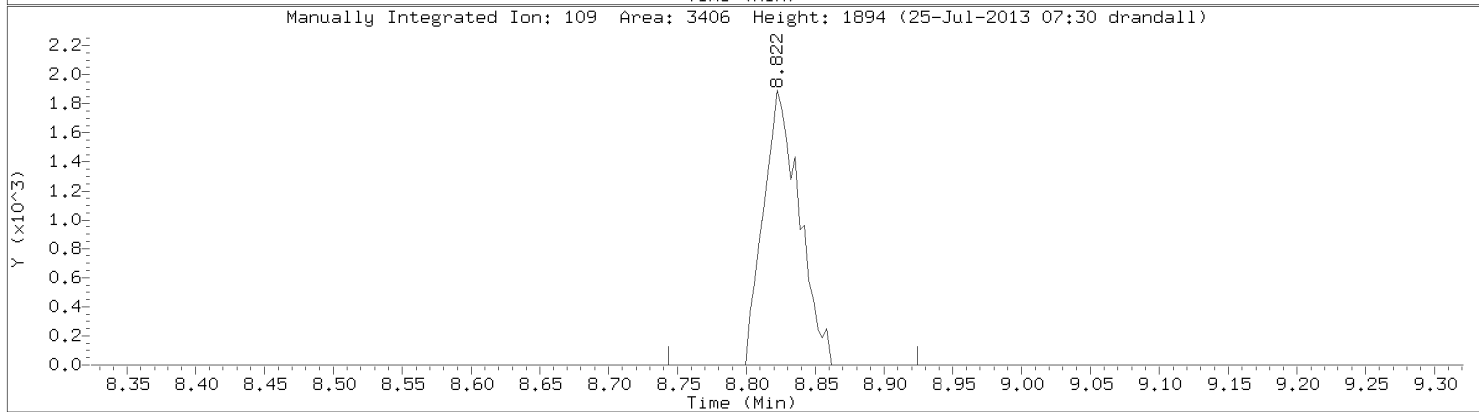
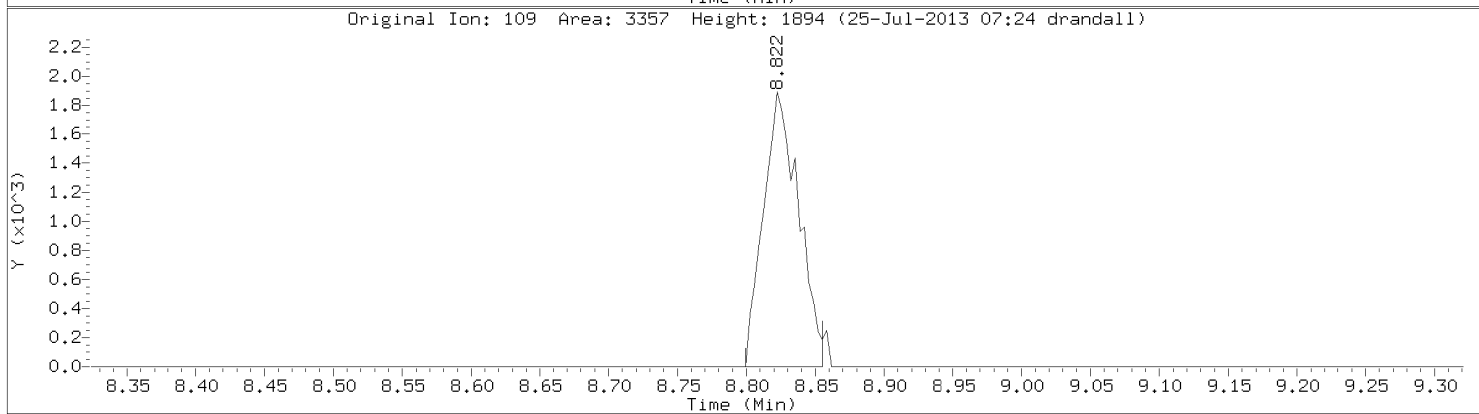
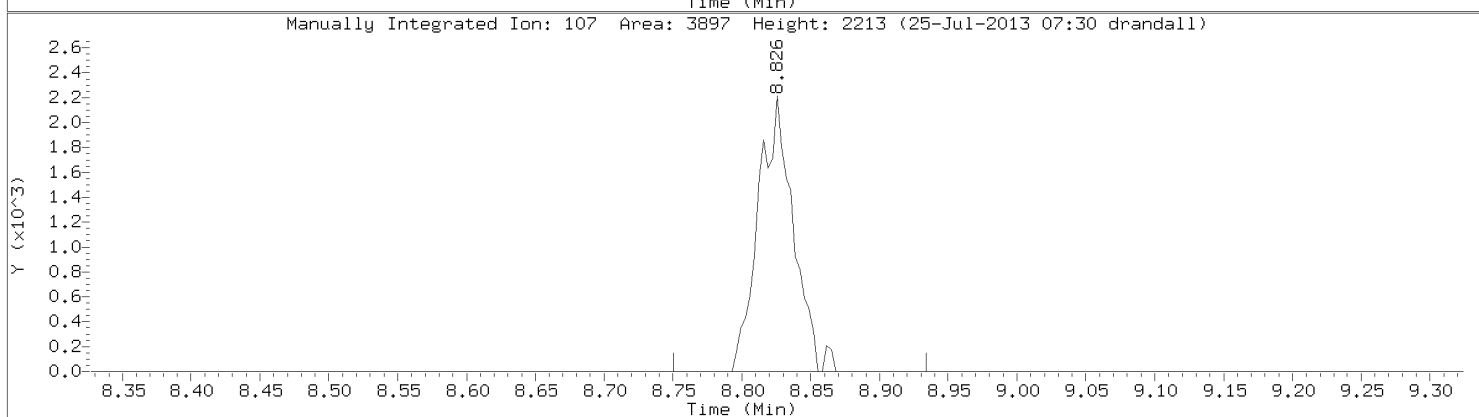
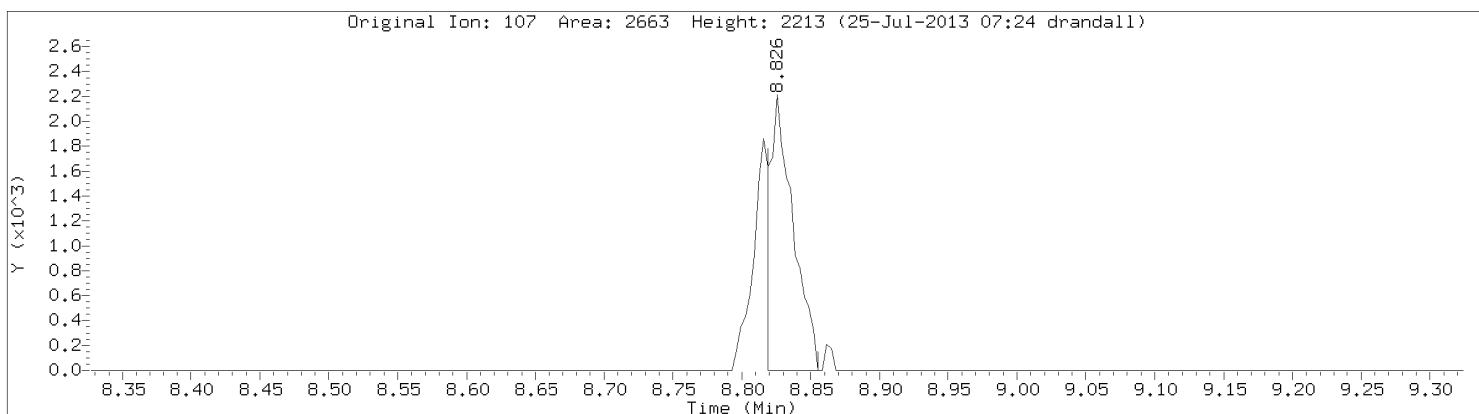
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Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Dibromochloromethane
CAS Number: 124-48-1



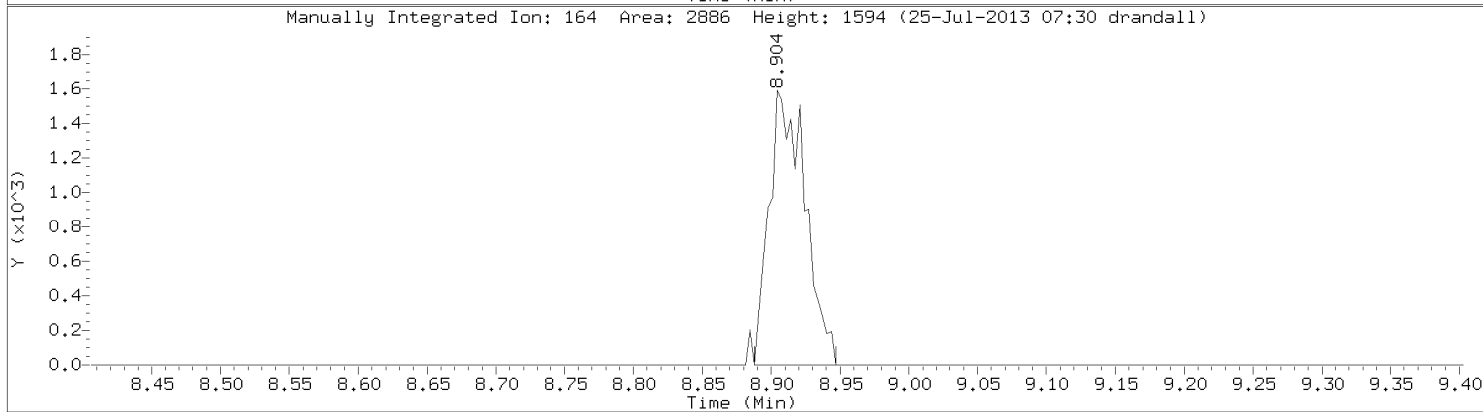
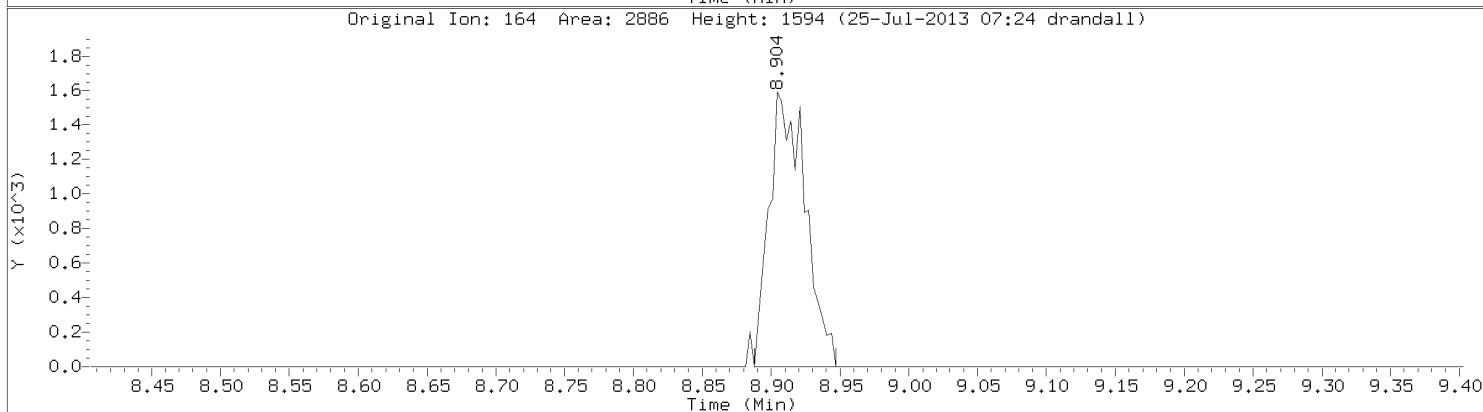
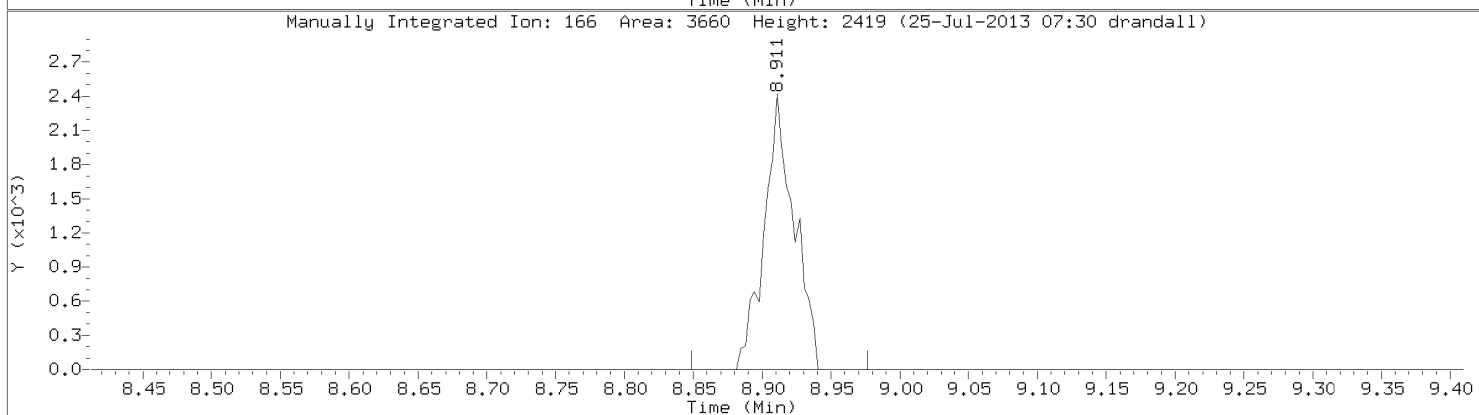
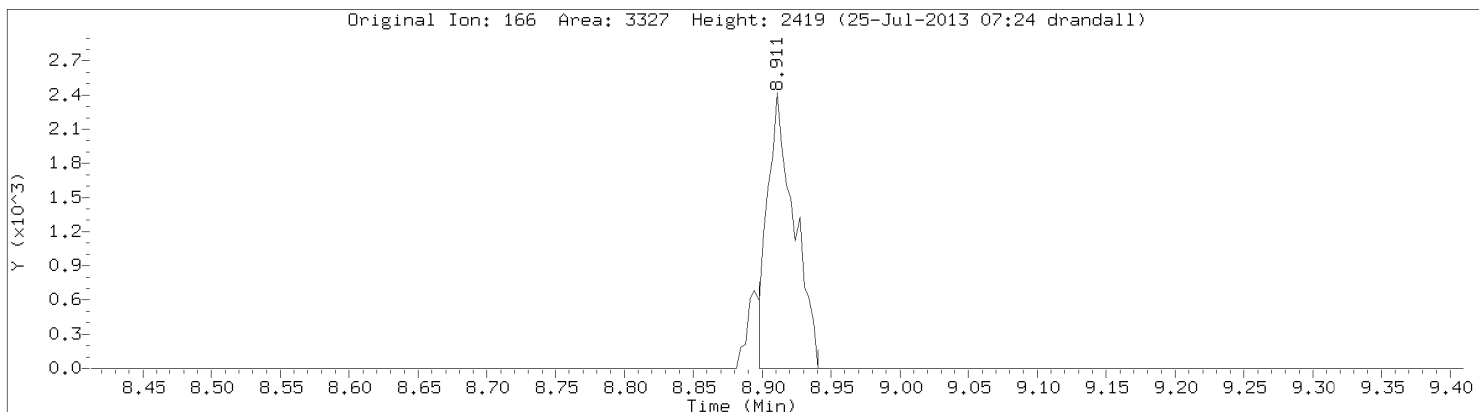
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Lab Sample ID: CAL2

Compound: 1,2-Dibromoethane
CAS Number: 106-93-4

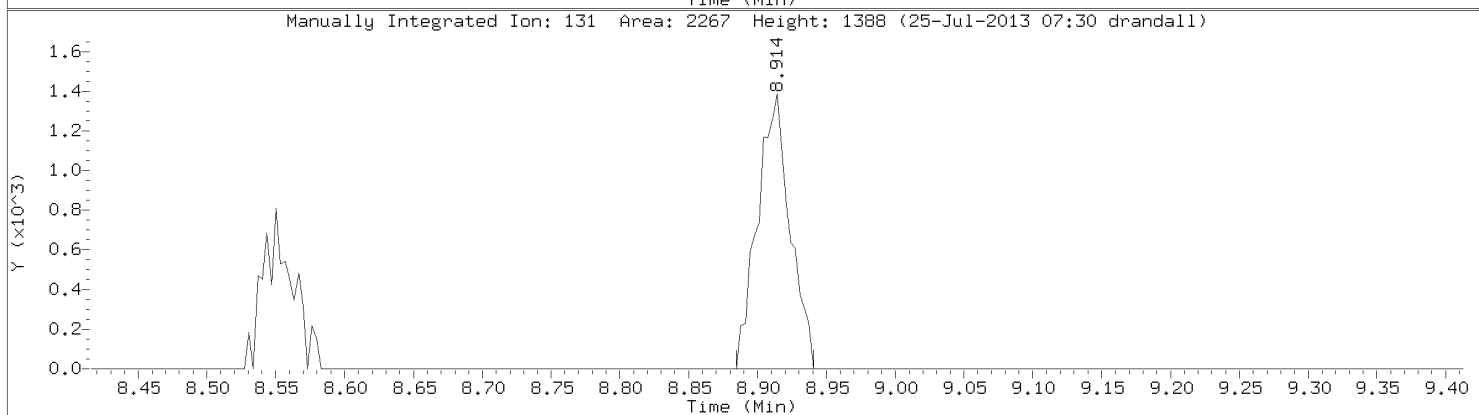
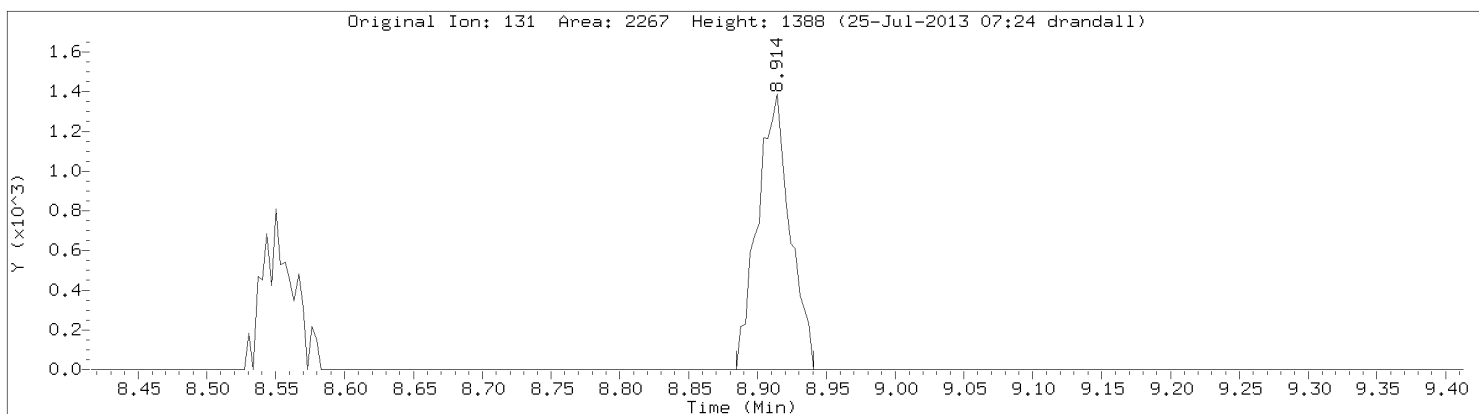


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Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Tetrachloroethene
CAS Number: 127-18-4

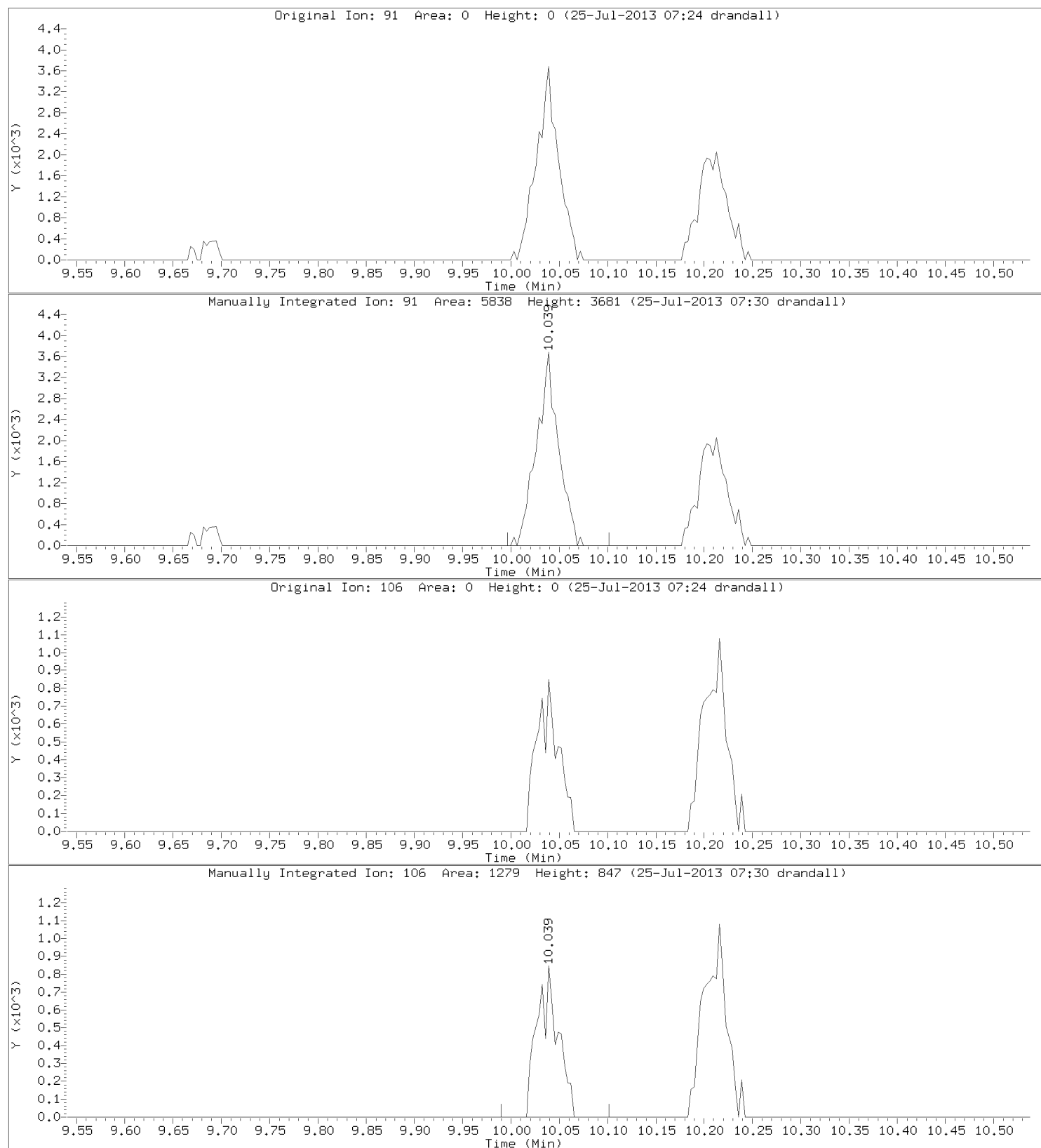


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Lab Sample ID: CAL2



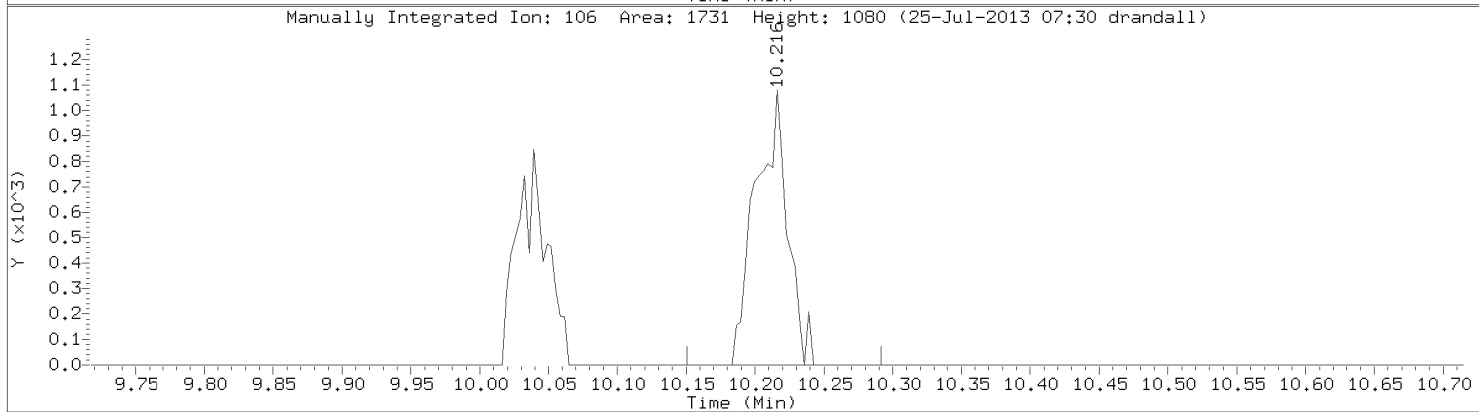
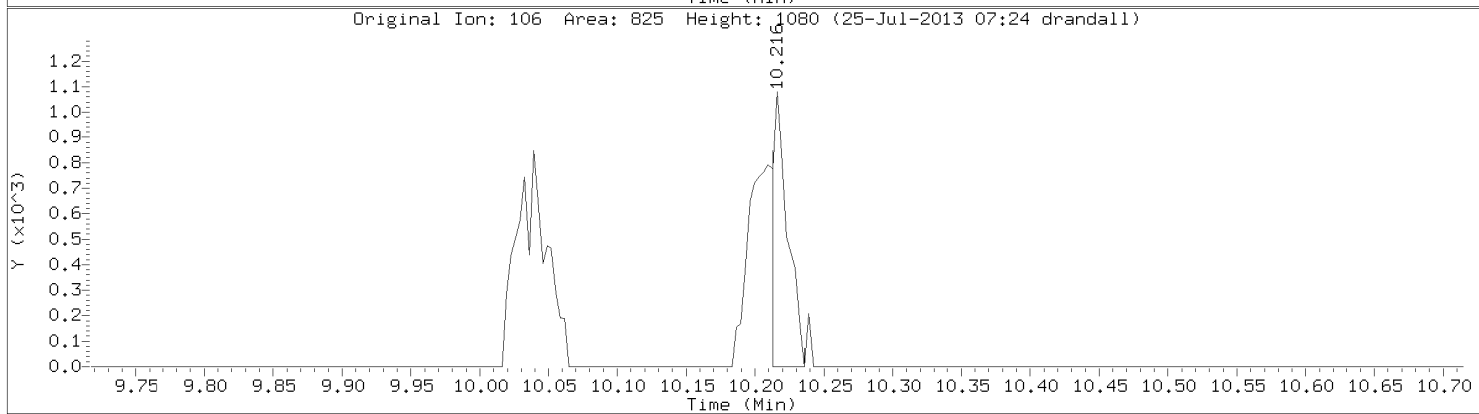
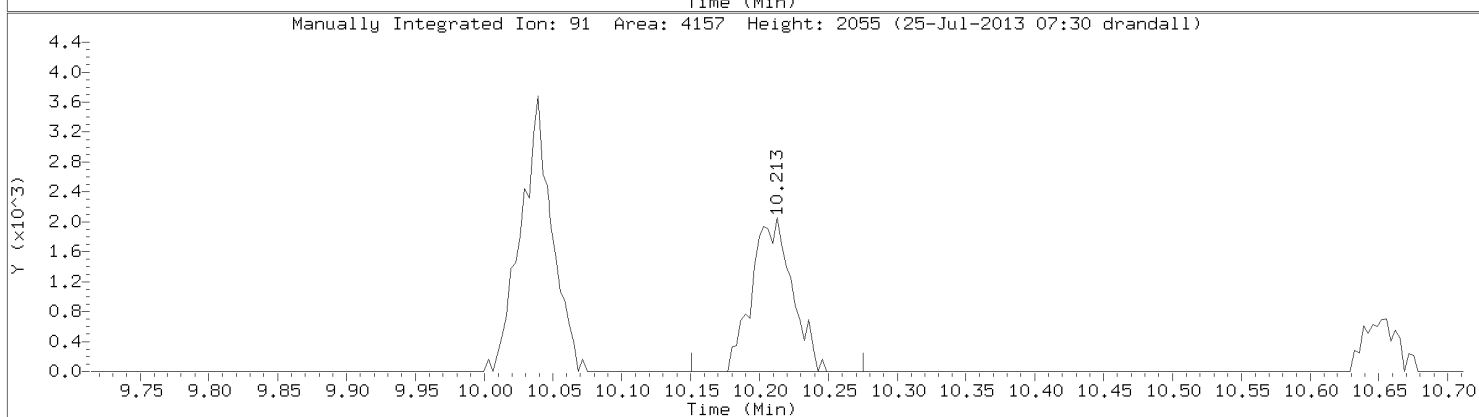
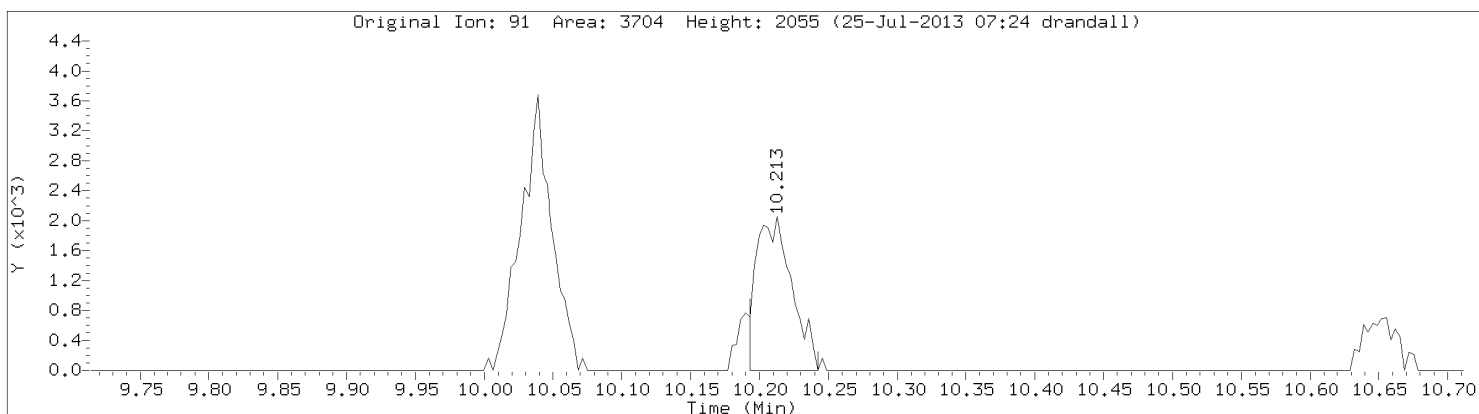
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Instrument: 10airD.i
Lab Sample ID: CAL2

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



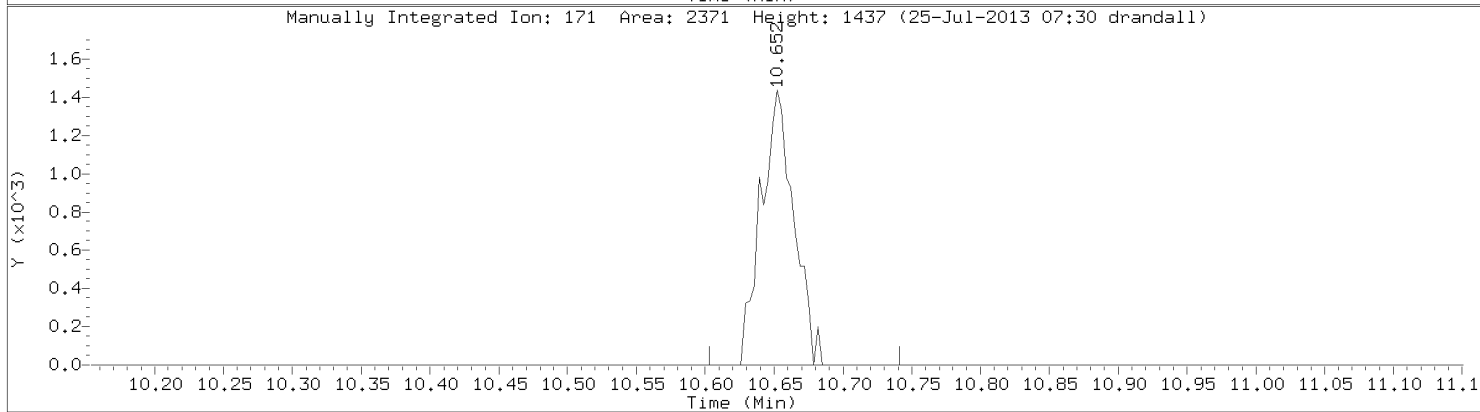
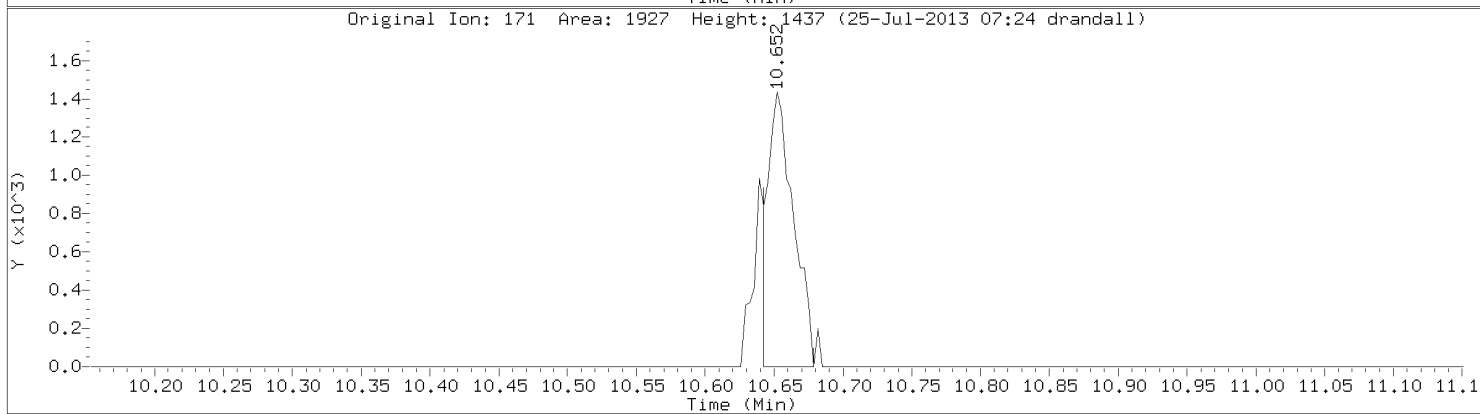
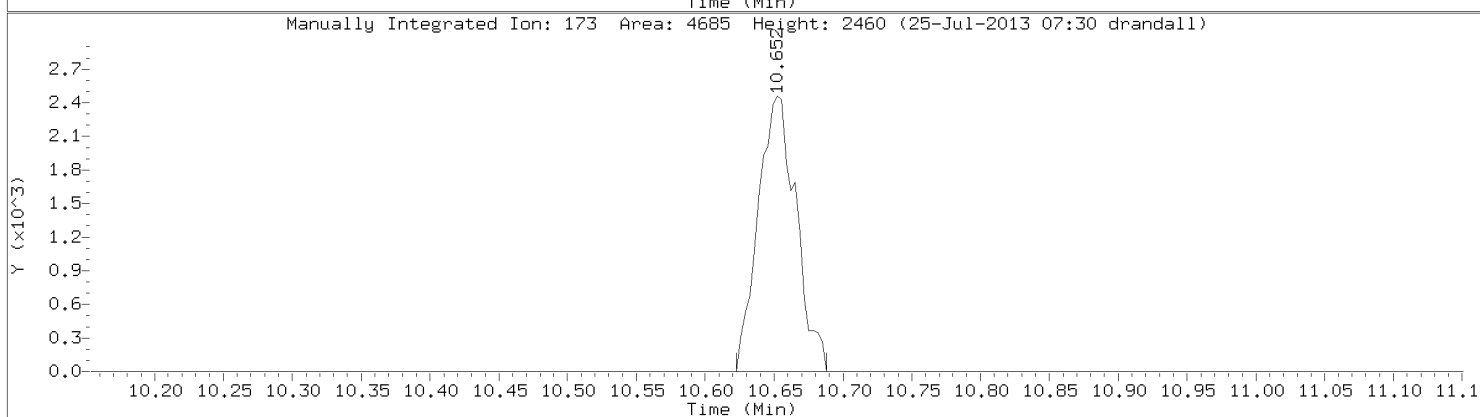
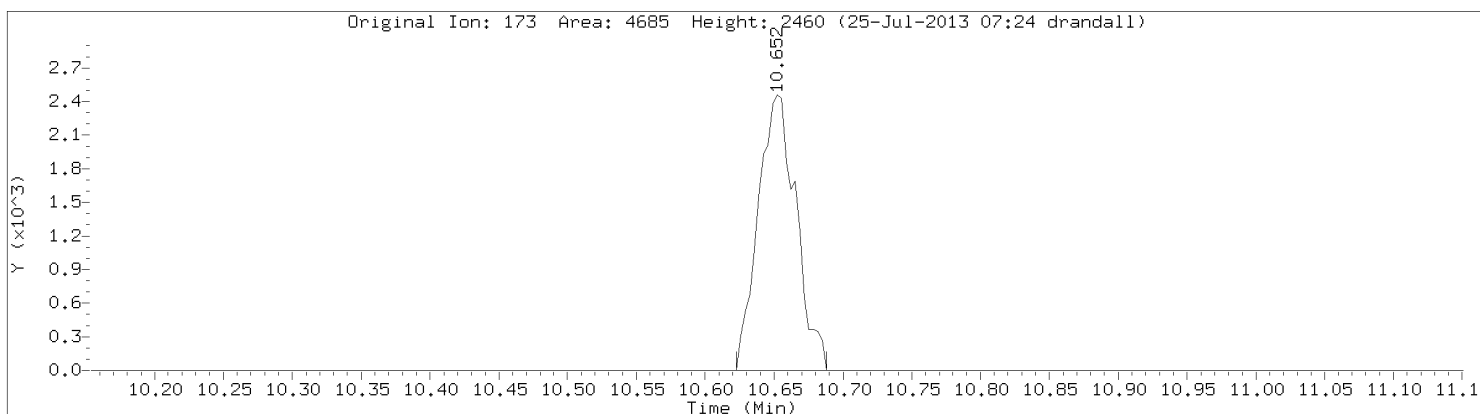
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Instrument: 10airD.i
Lab Sample ID: CAL2

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



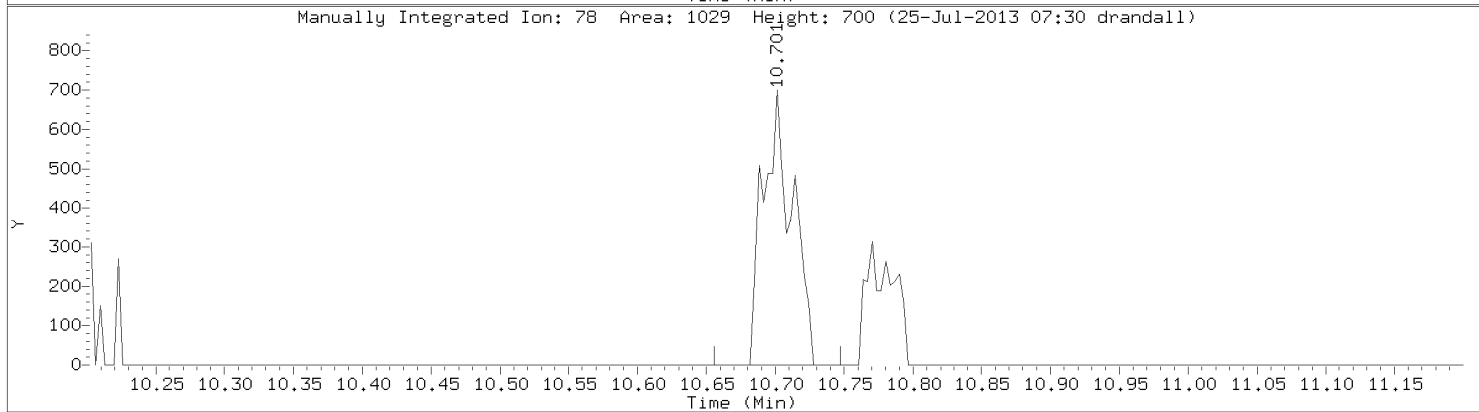
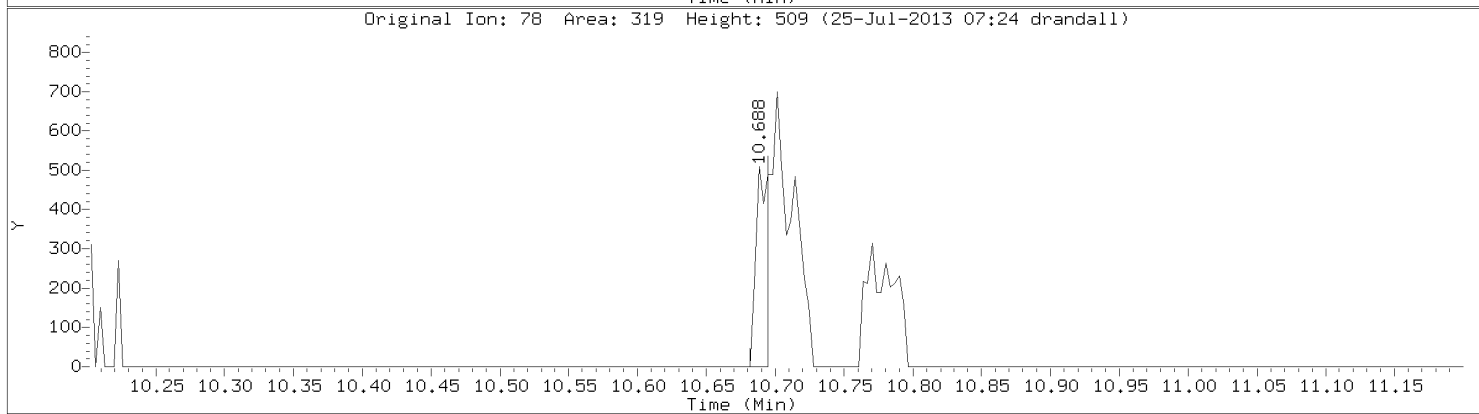
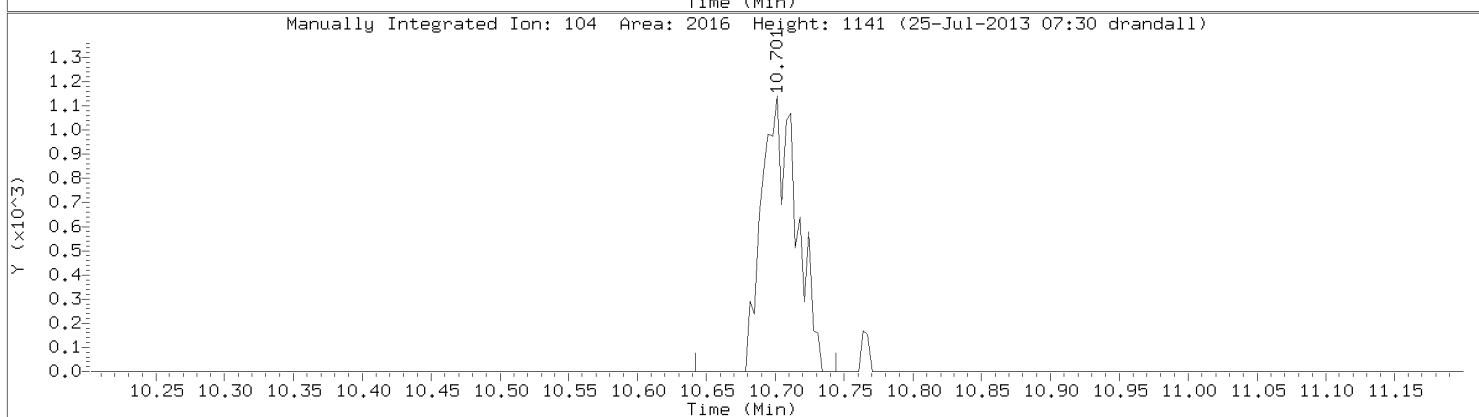
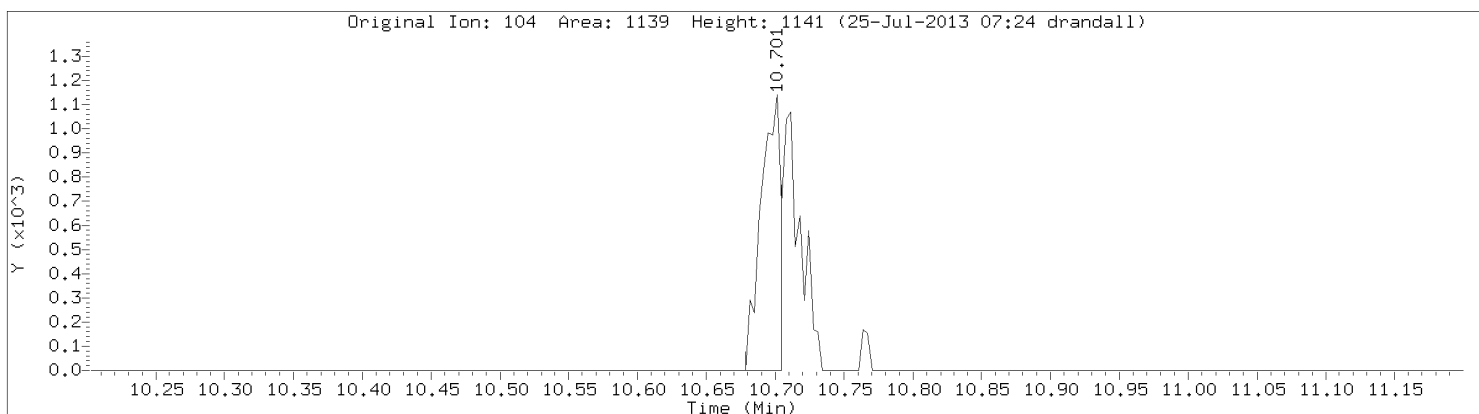
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Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Bromoform
CAS Number: 75-25-2

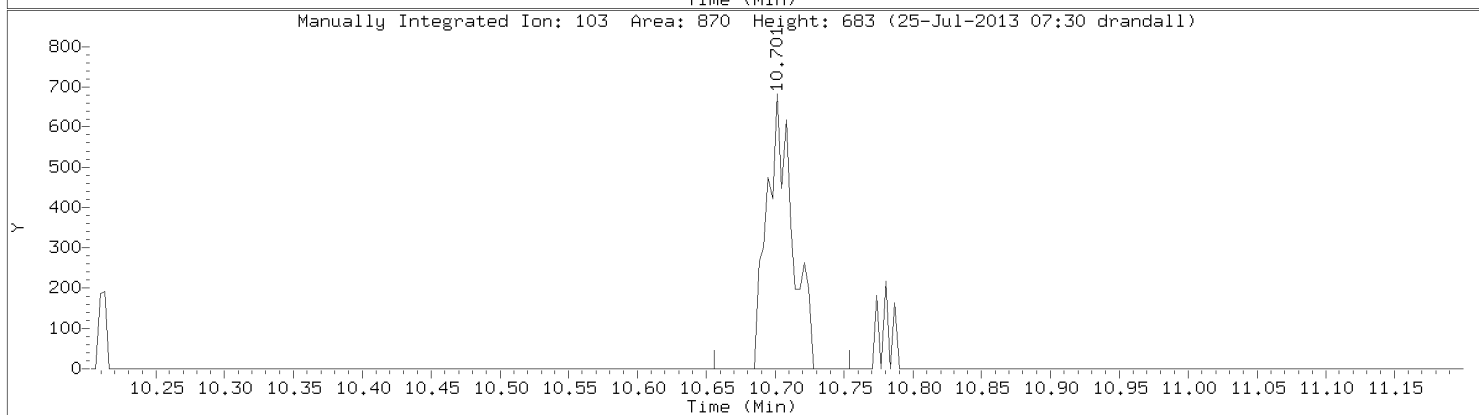
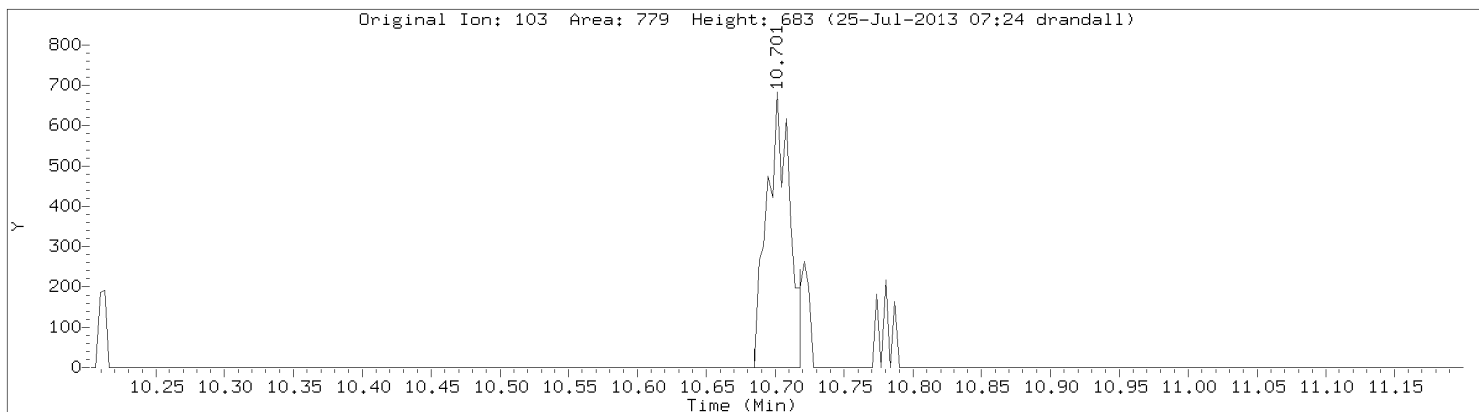


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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Styrene
CAS Number: 100-42-5

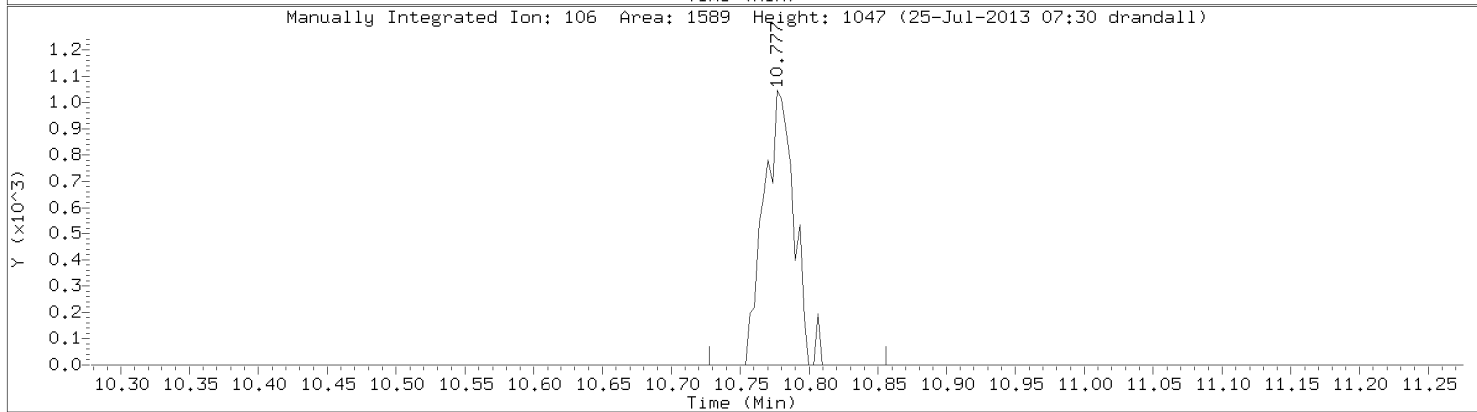
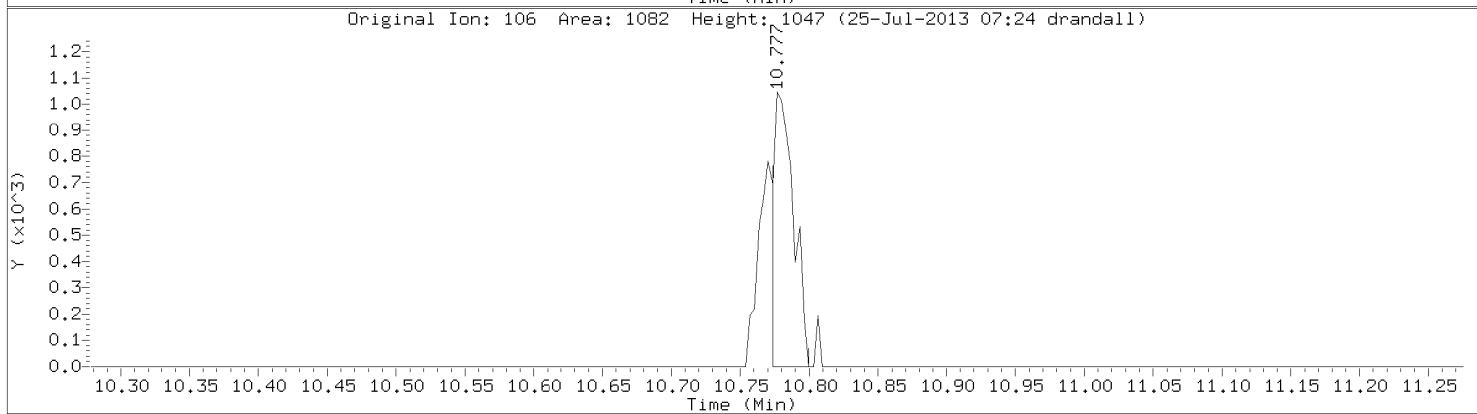
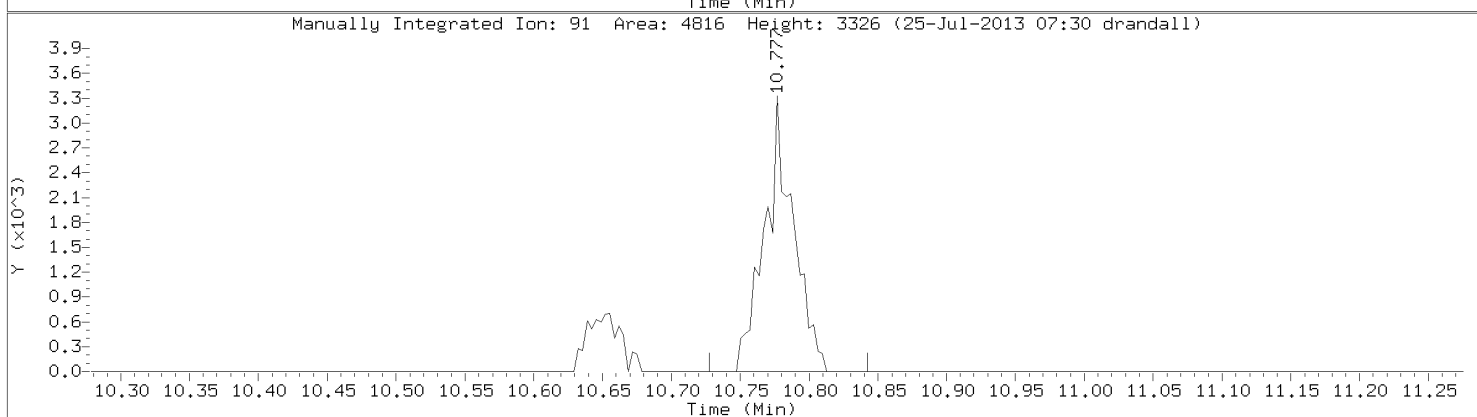
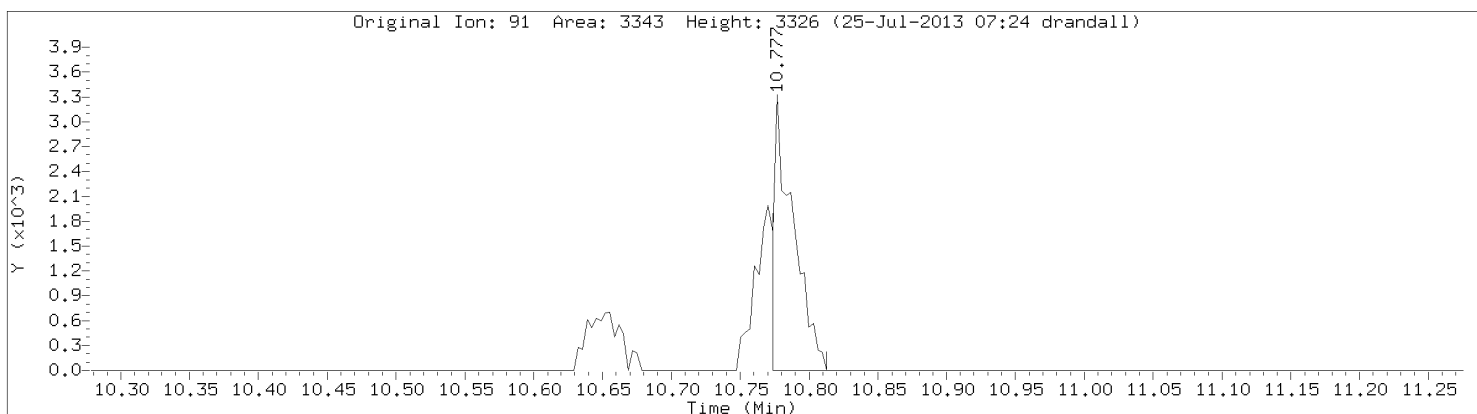


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Instrument: 10airD.i
Lab Sample ID: CAL2



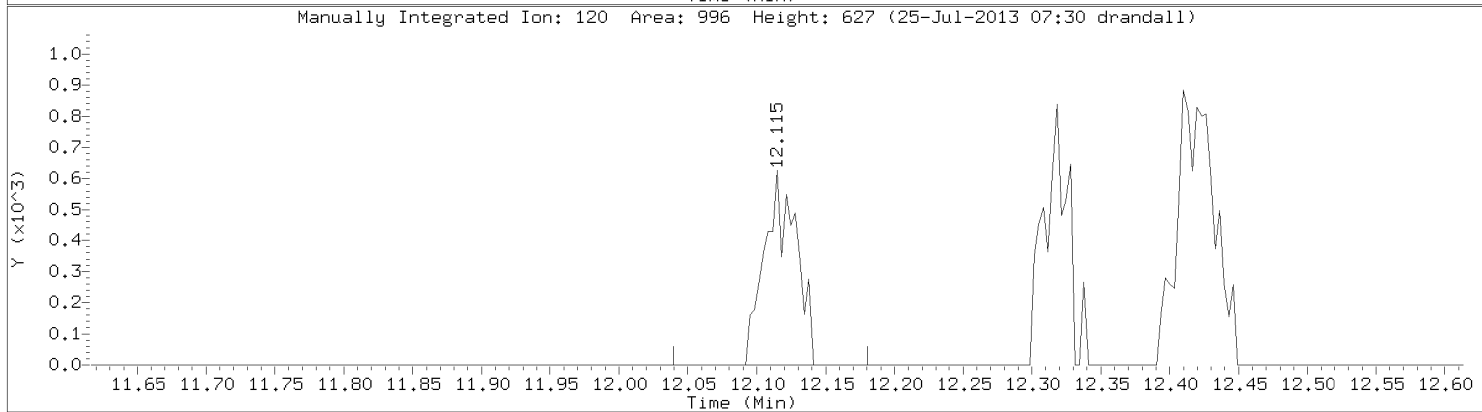
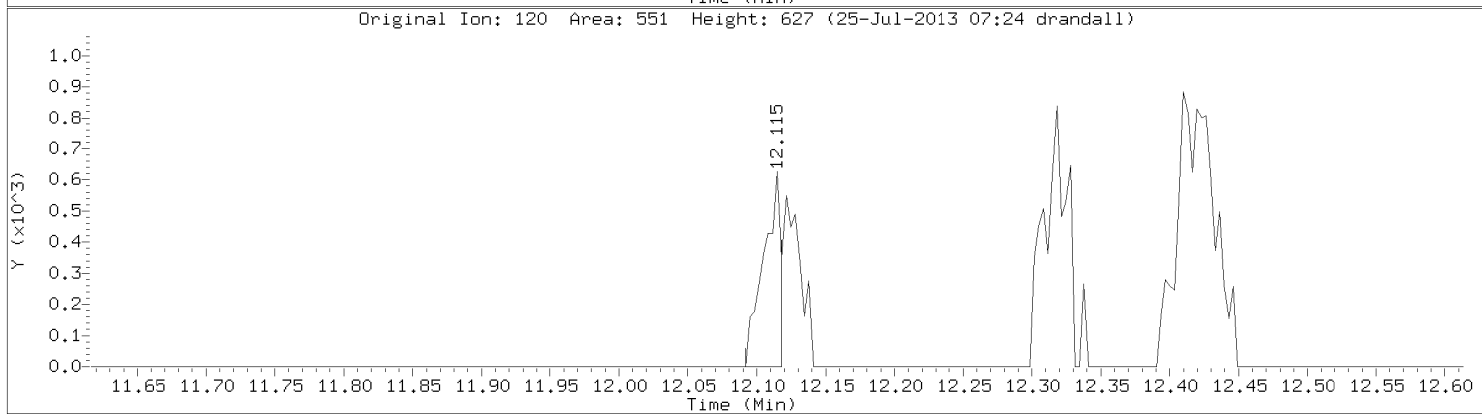
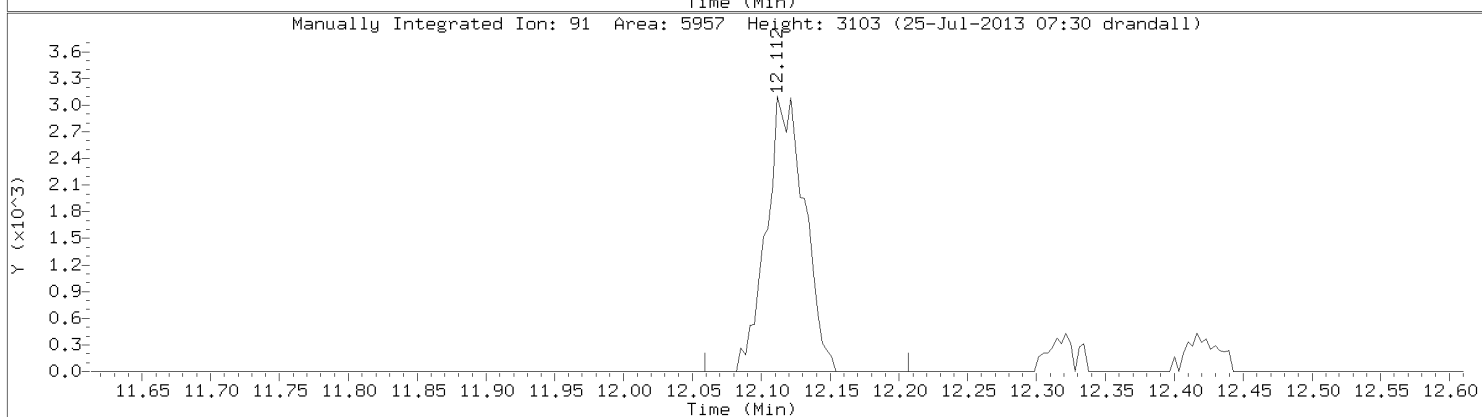
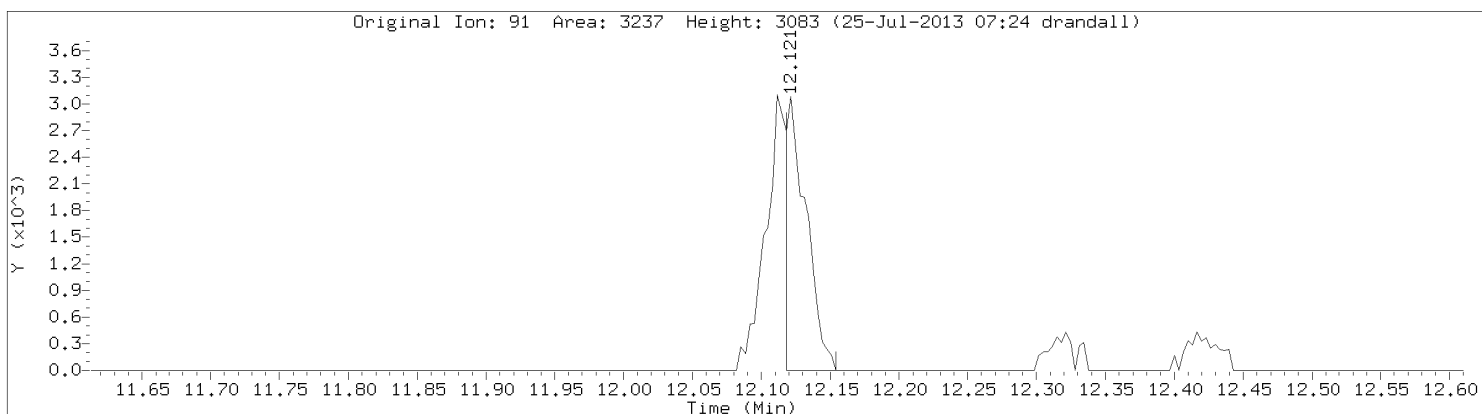
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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

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



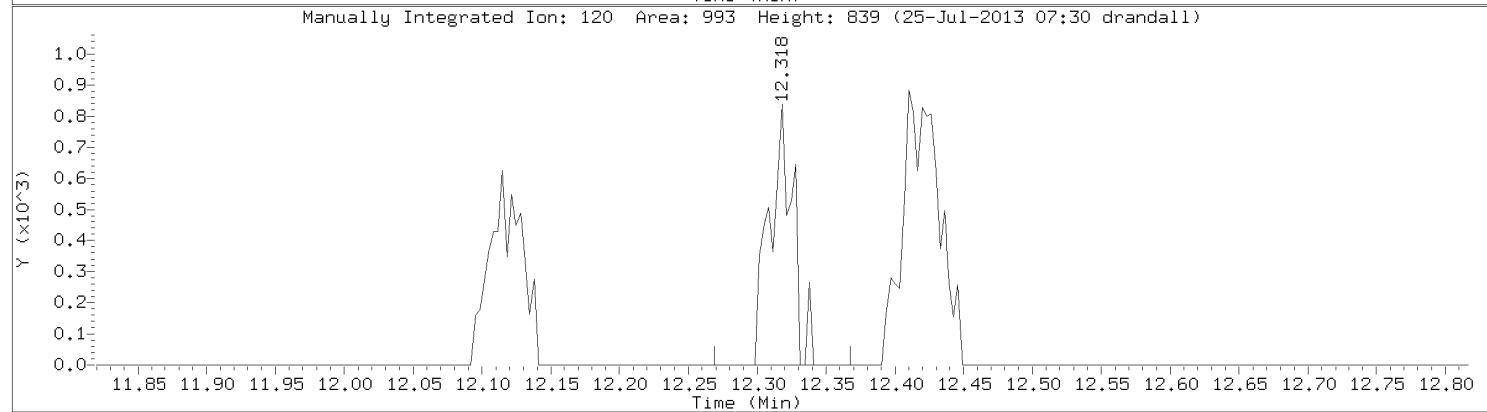
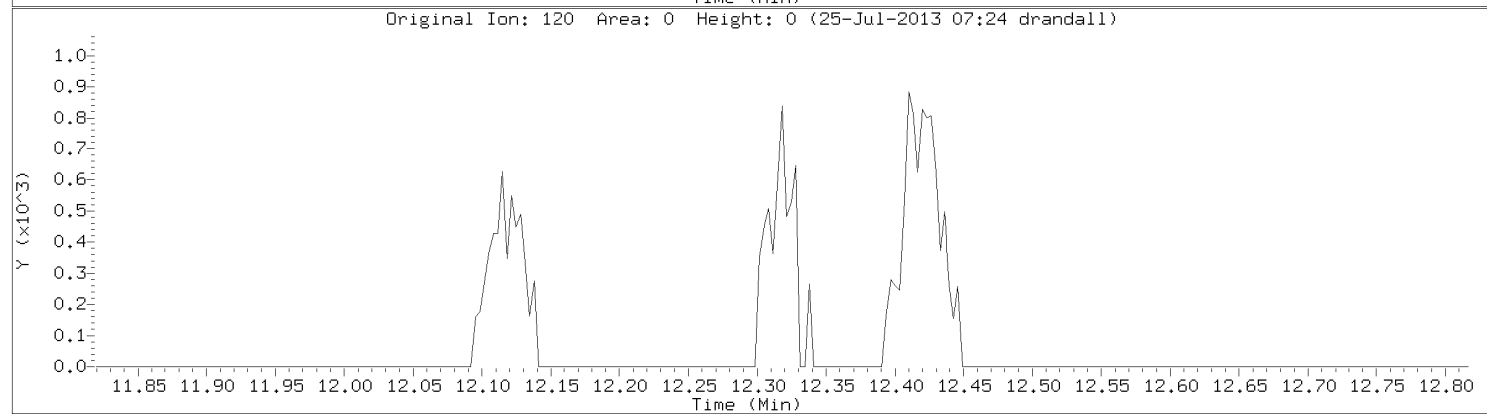
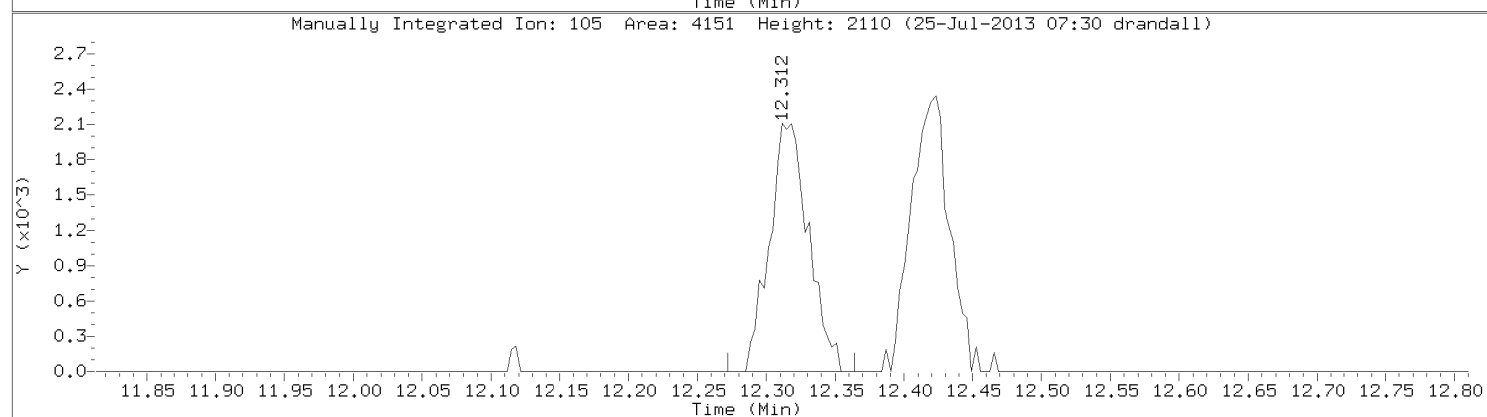
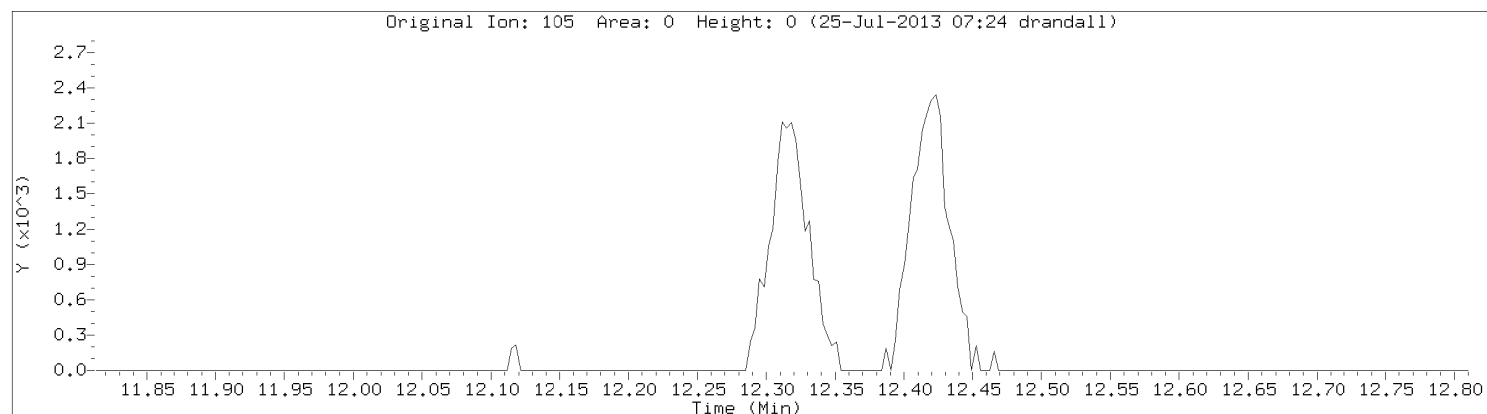
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Instrument: 10airD.i
Lab Sample ID: CAL2

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

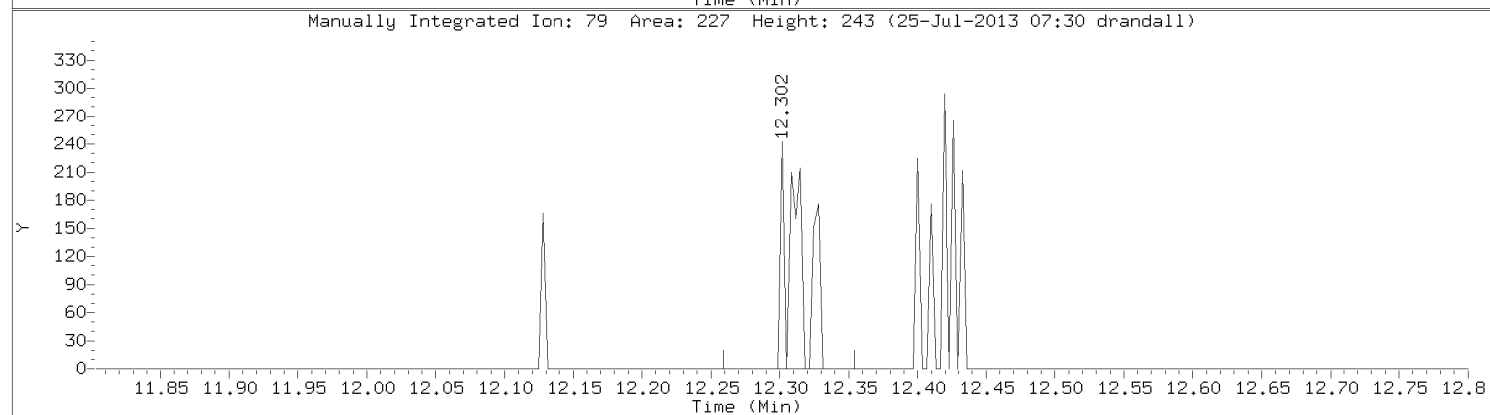
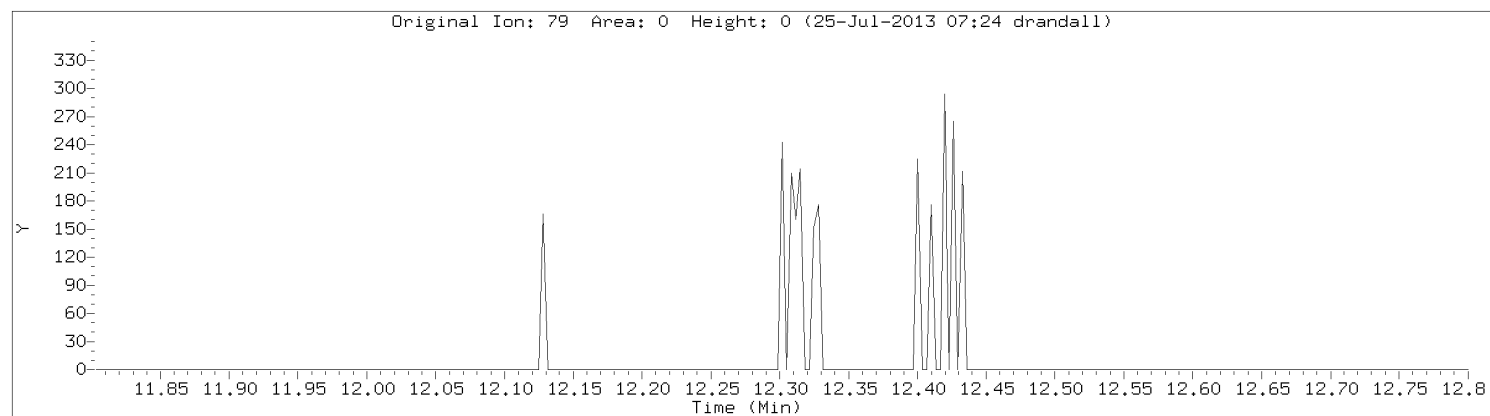


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Instrument: 10airD.i
Lab Sample ID: CAL2

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

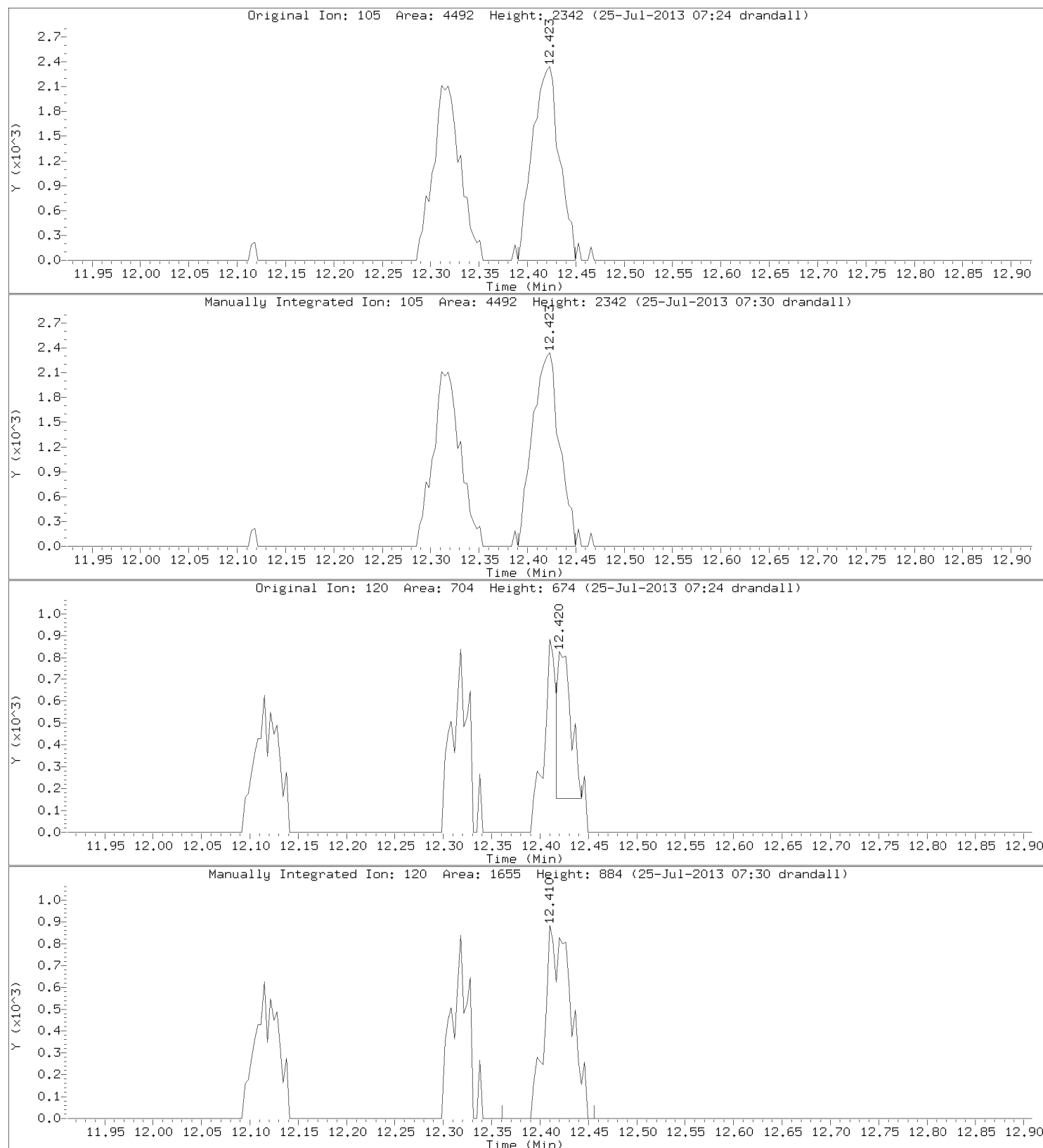


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Lab Sample ID: CAL2



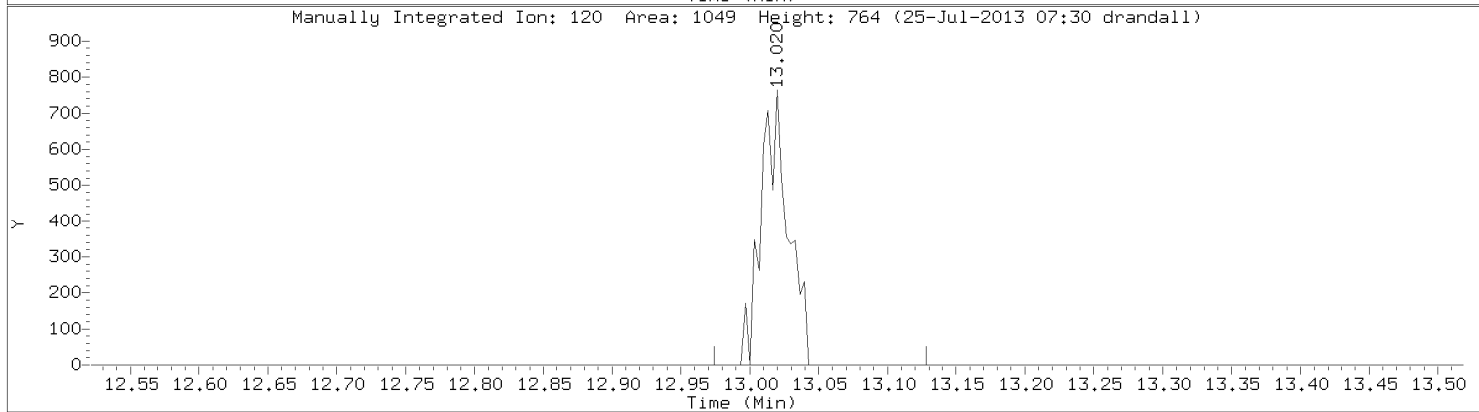
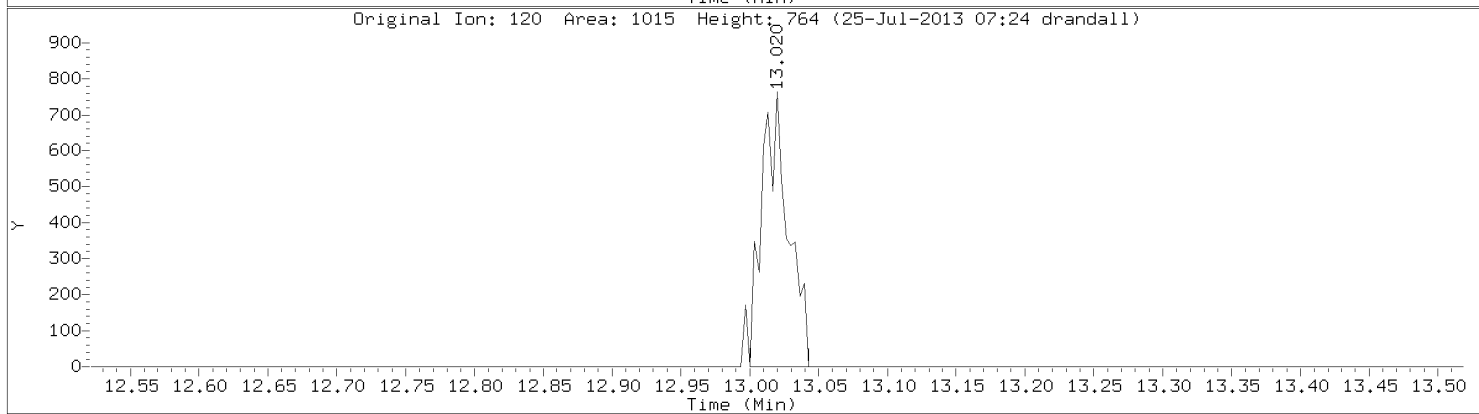
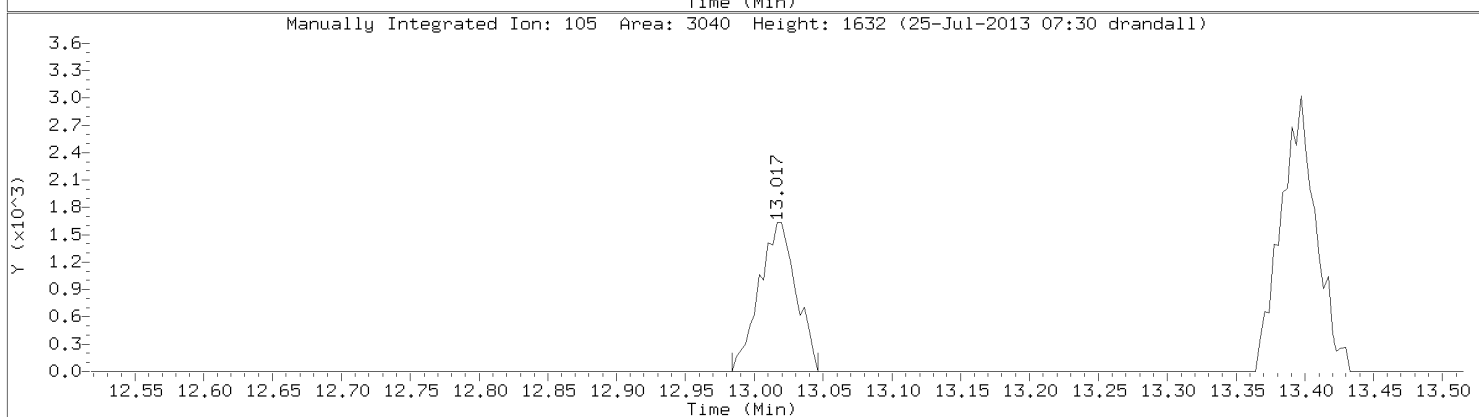
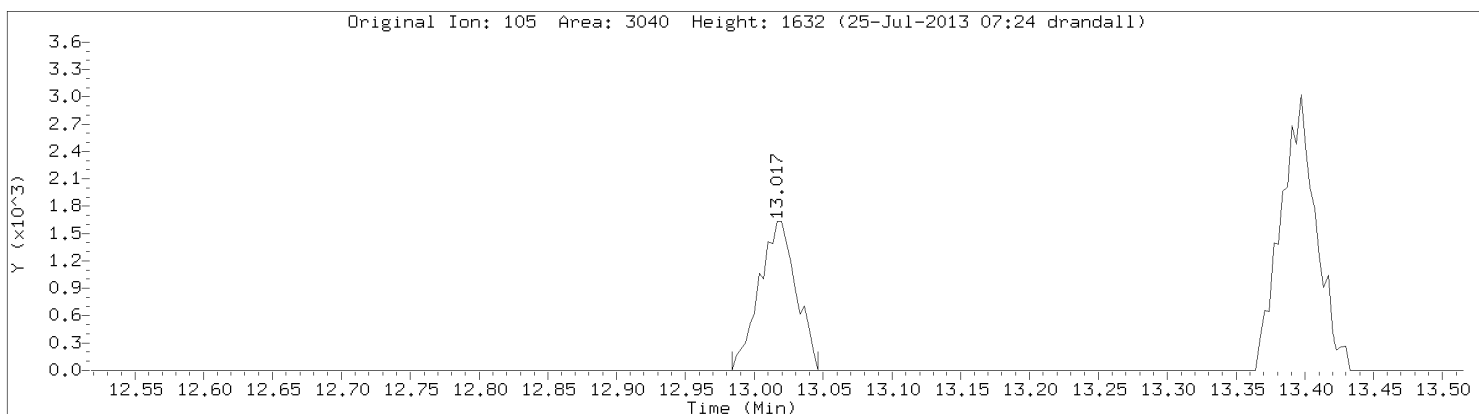
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Instrument: 10airD.i
Lab Sample ID: CAL2

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



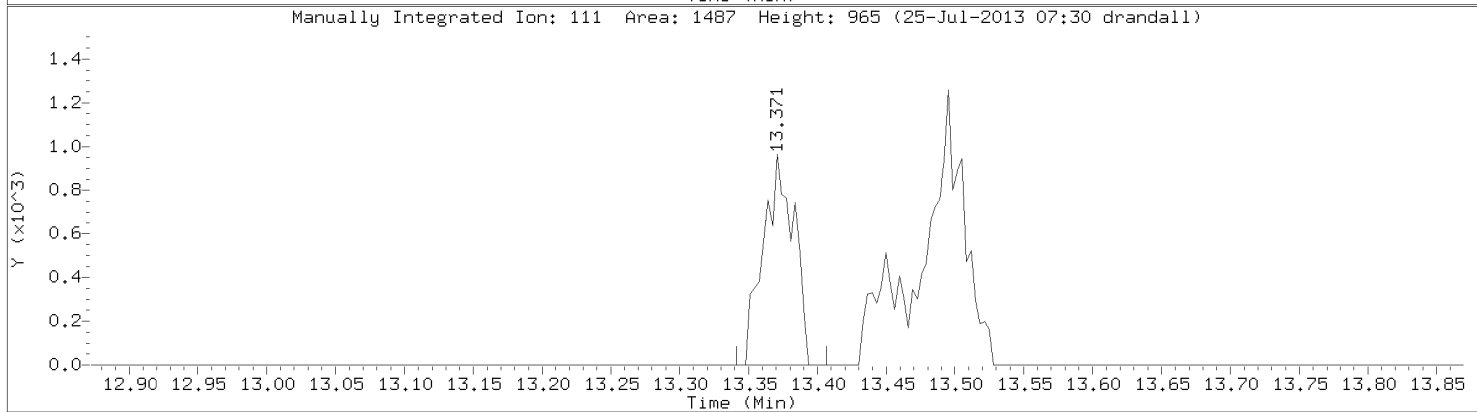
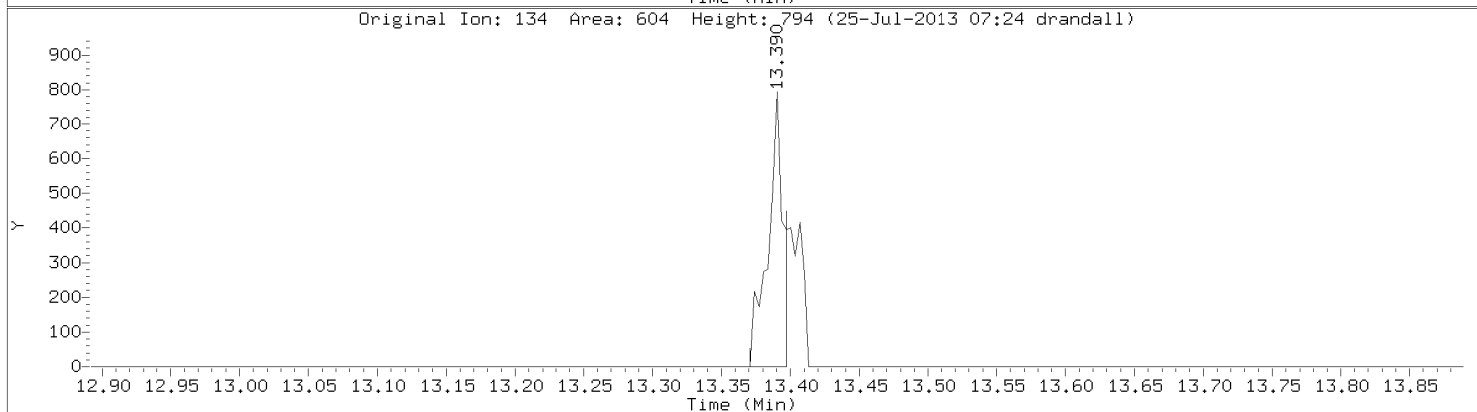
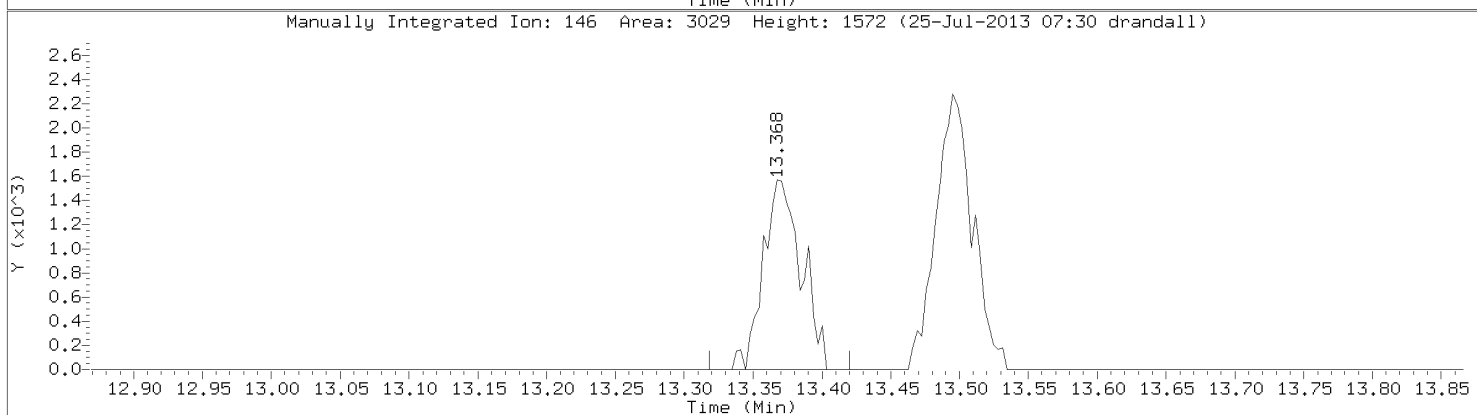
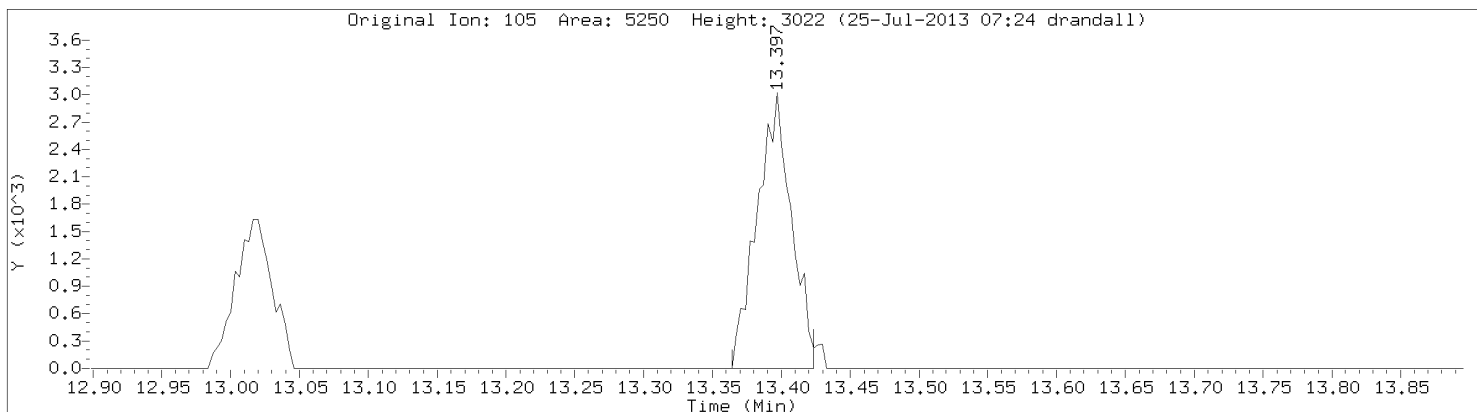
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Instrument: 10airD.i
Lab Sample ID: CAL2

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

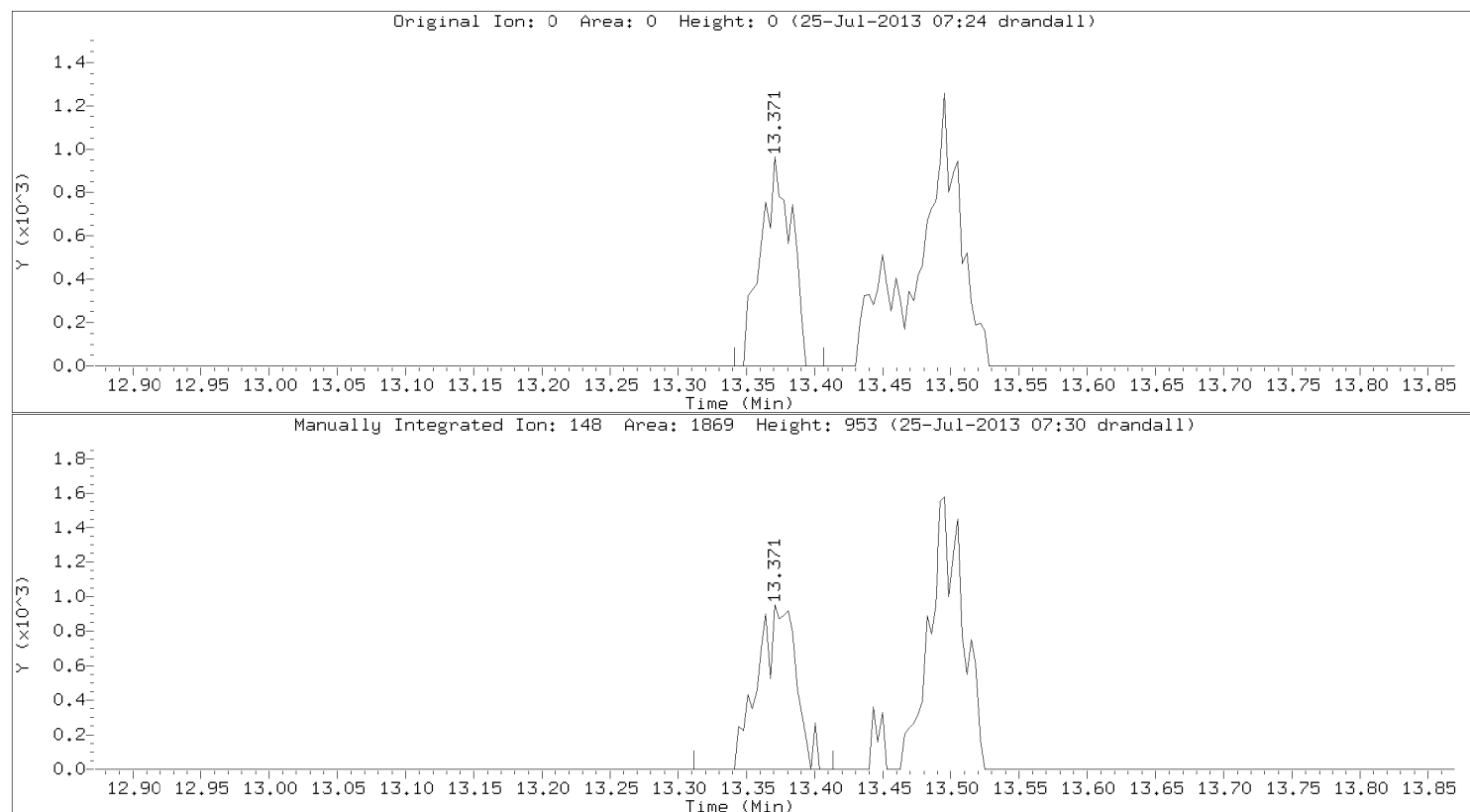


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Instrument: 10airD.i
Lab Sample ID: CAL2

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

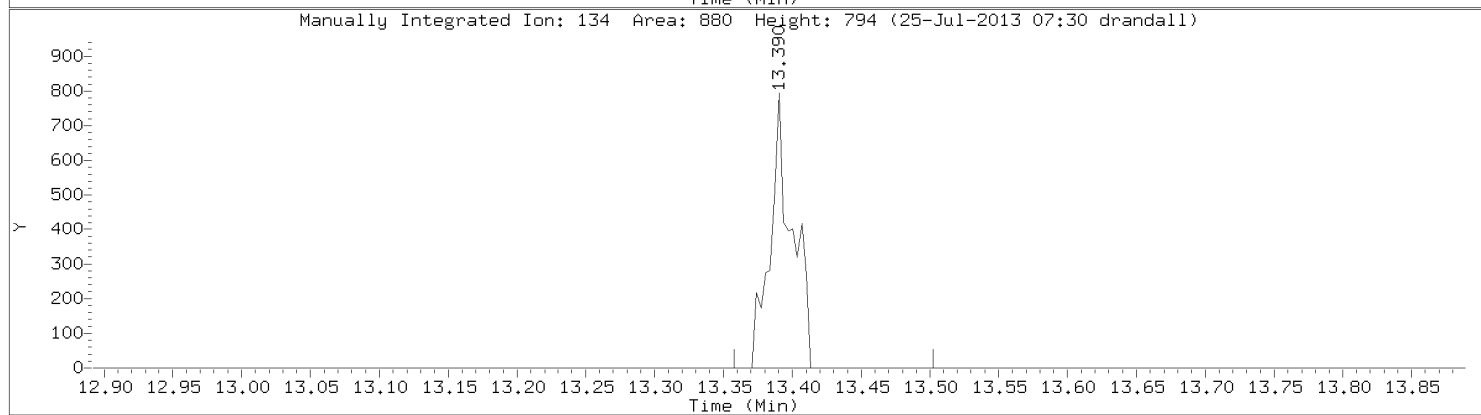
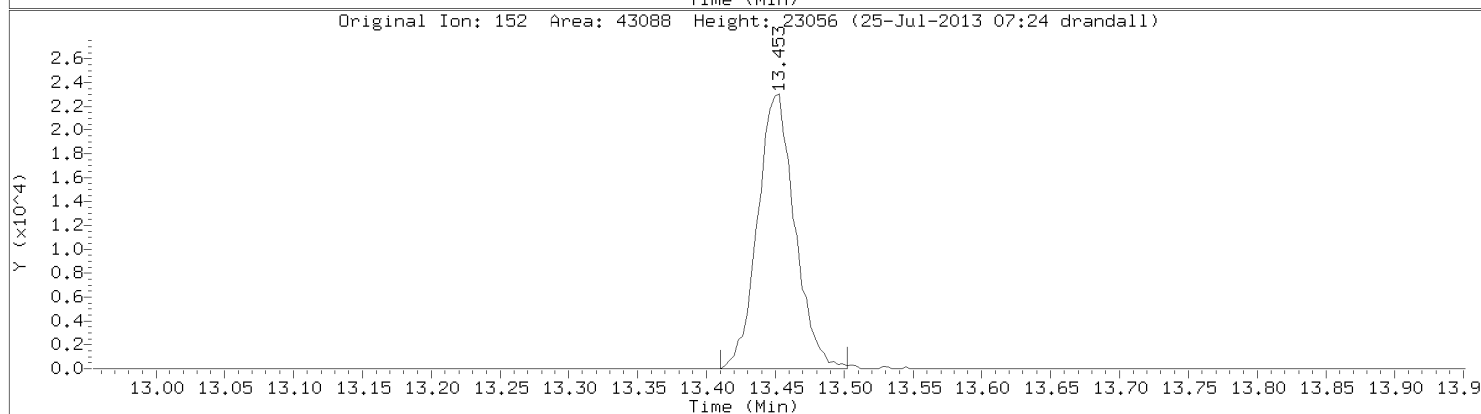
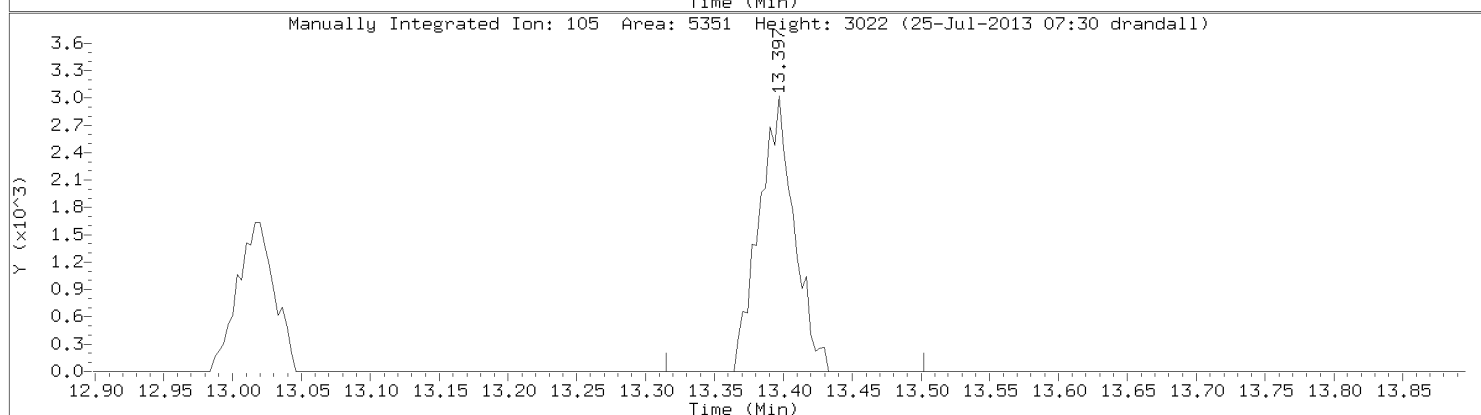
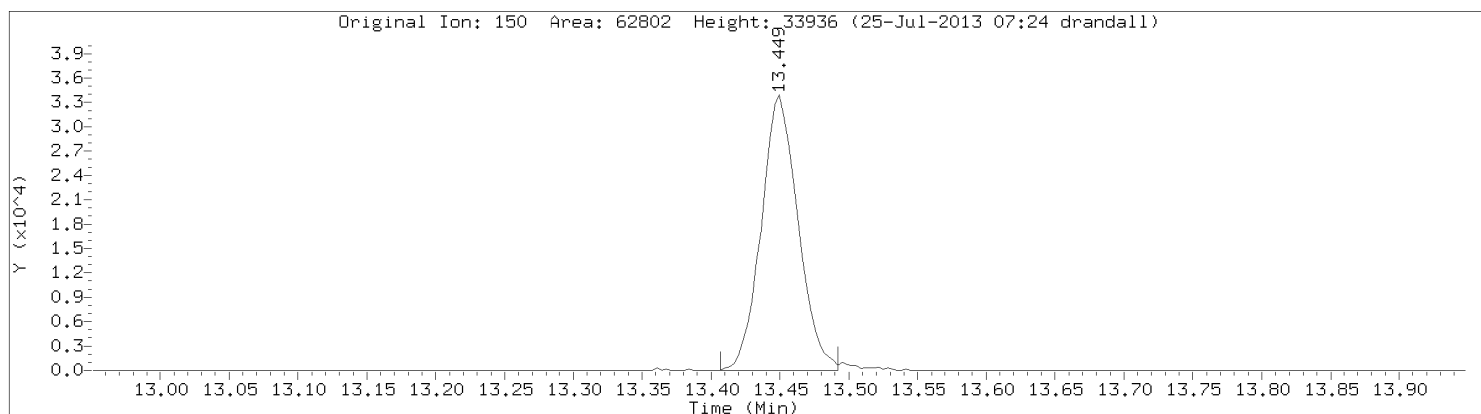


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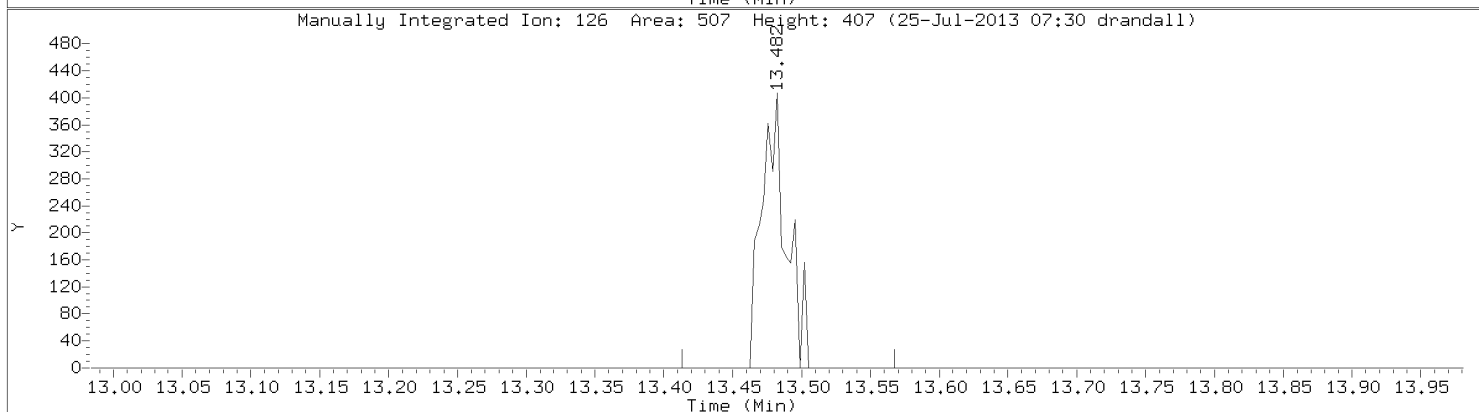
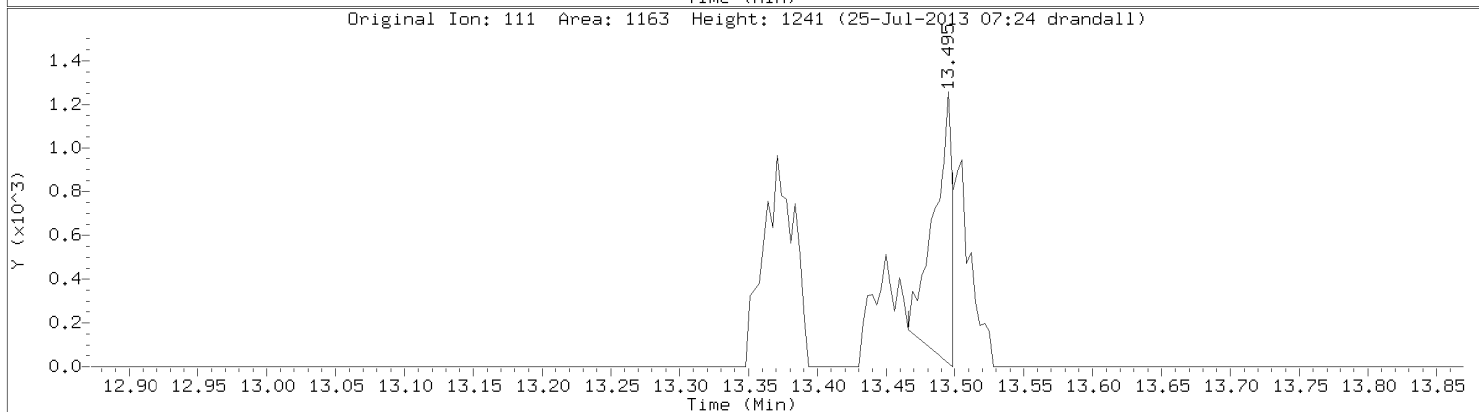
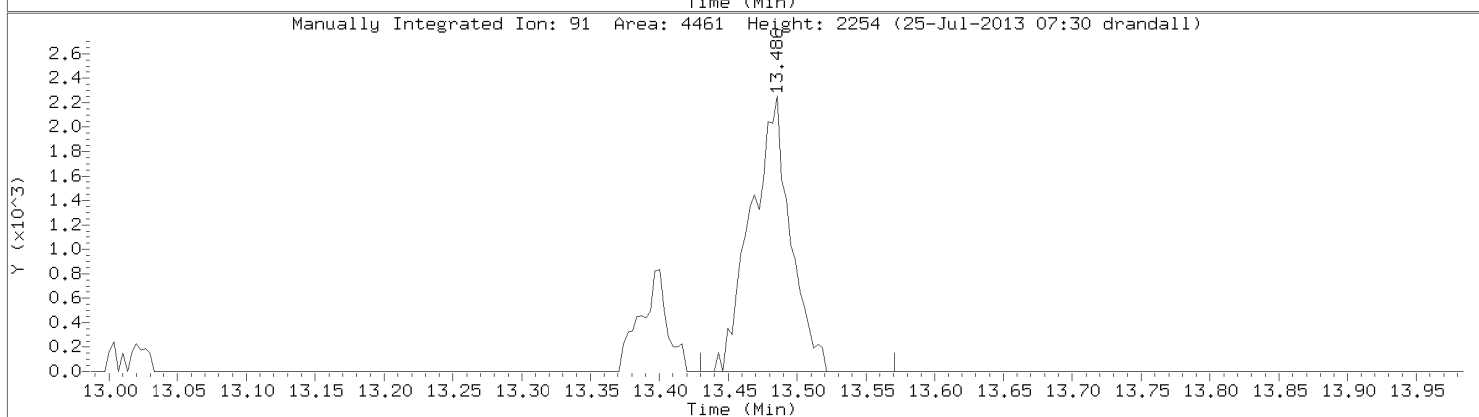
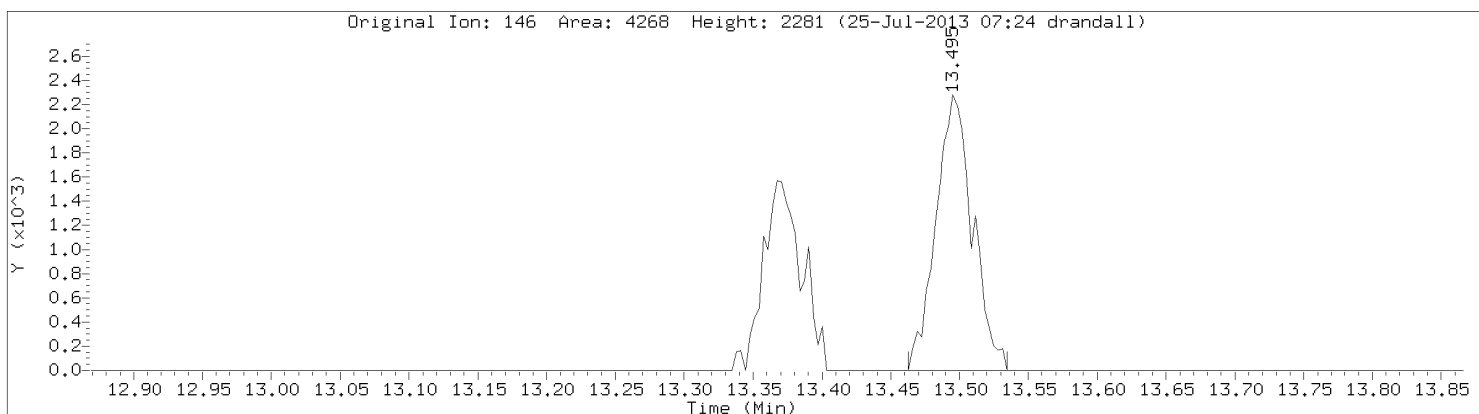
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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

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



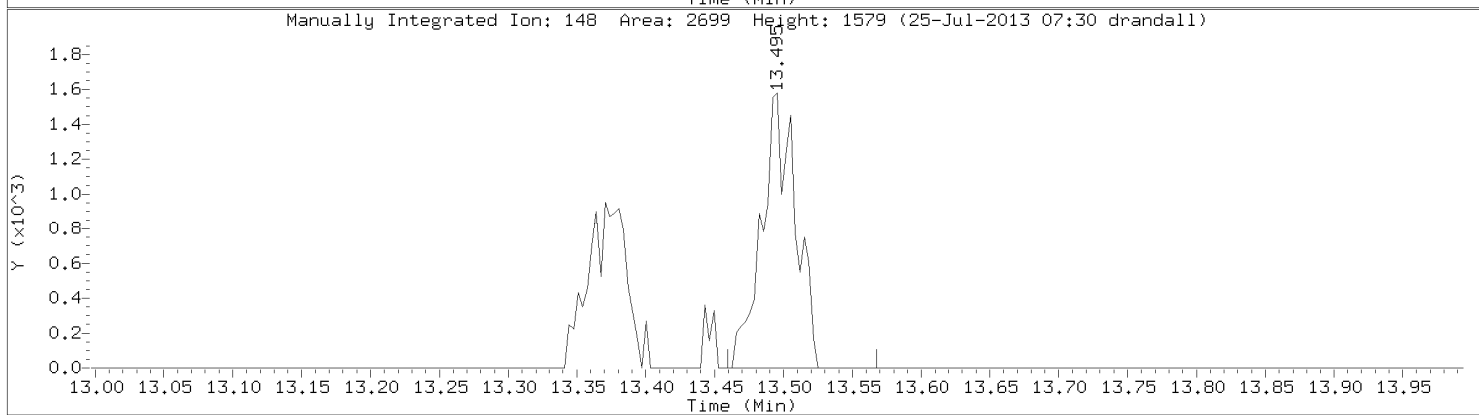
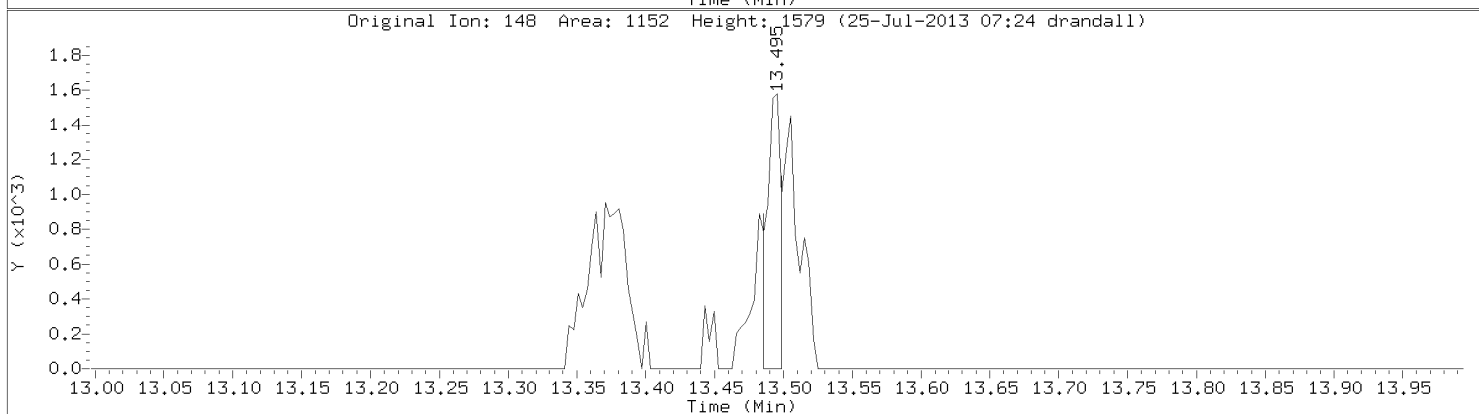
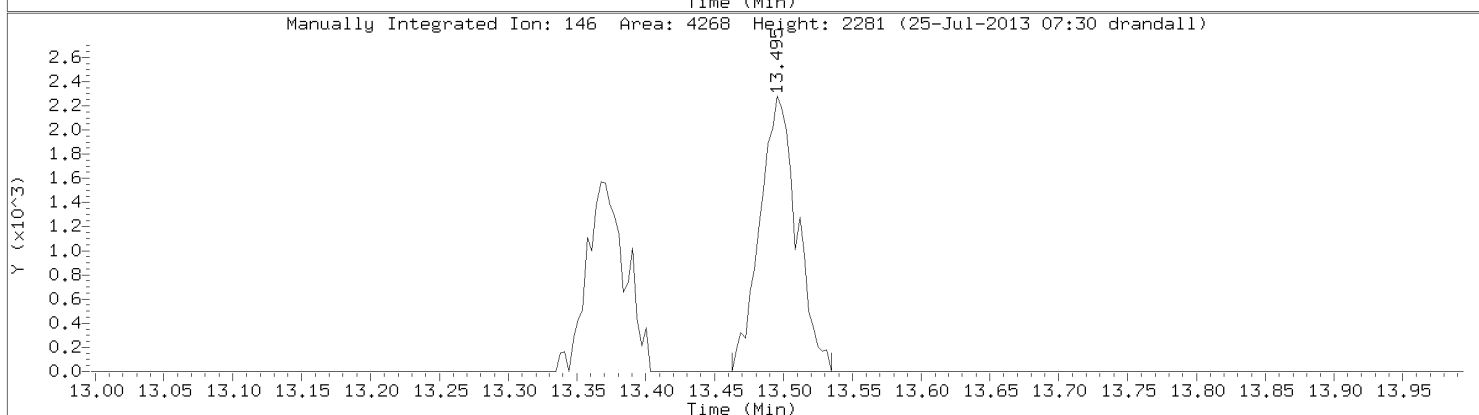
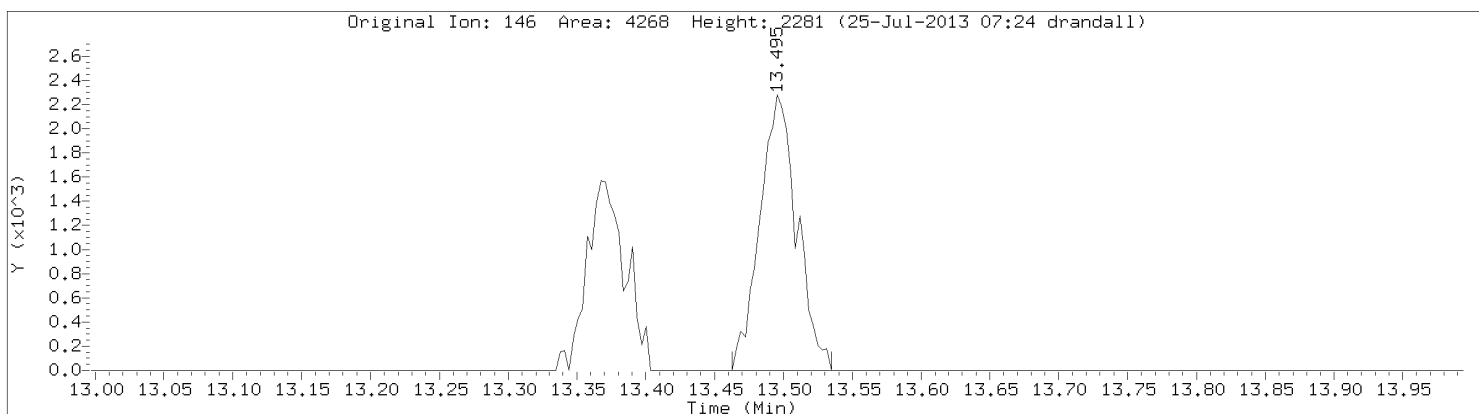
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Instrument: 10airD.i
Lab Sample ID: CAL2

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

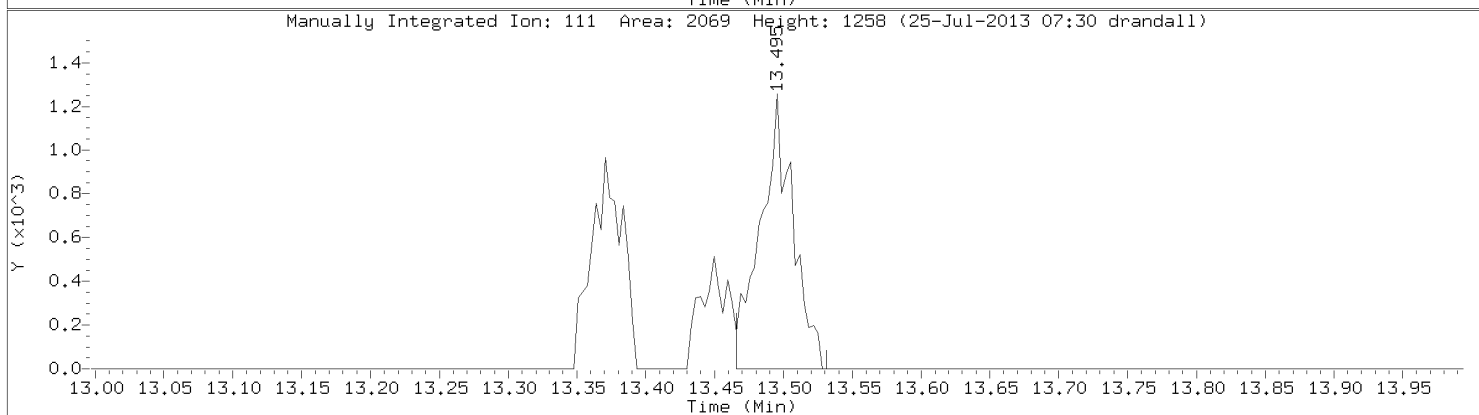
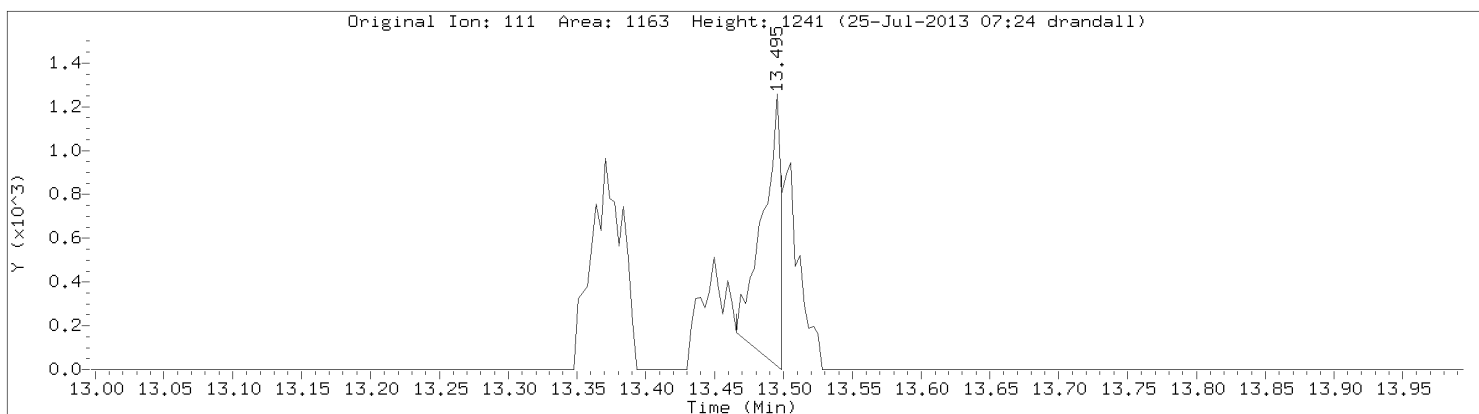


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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

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

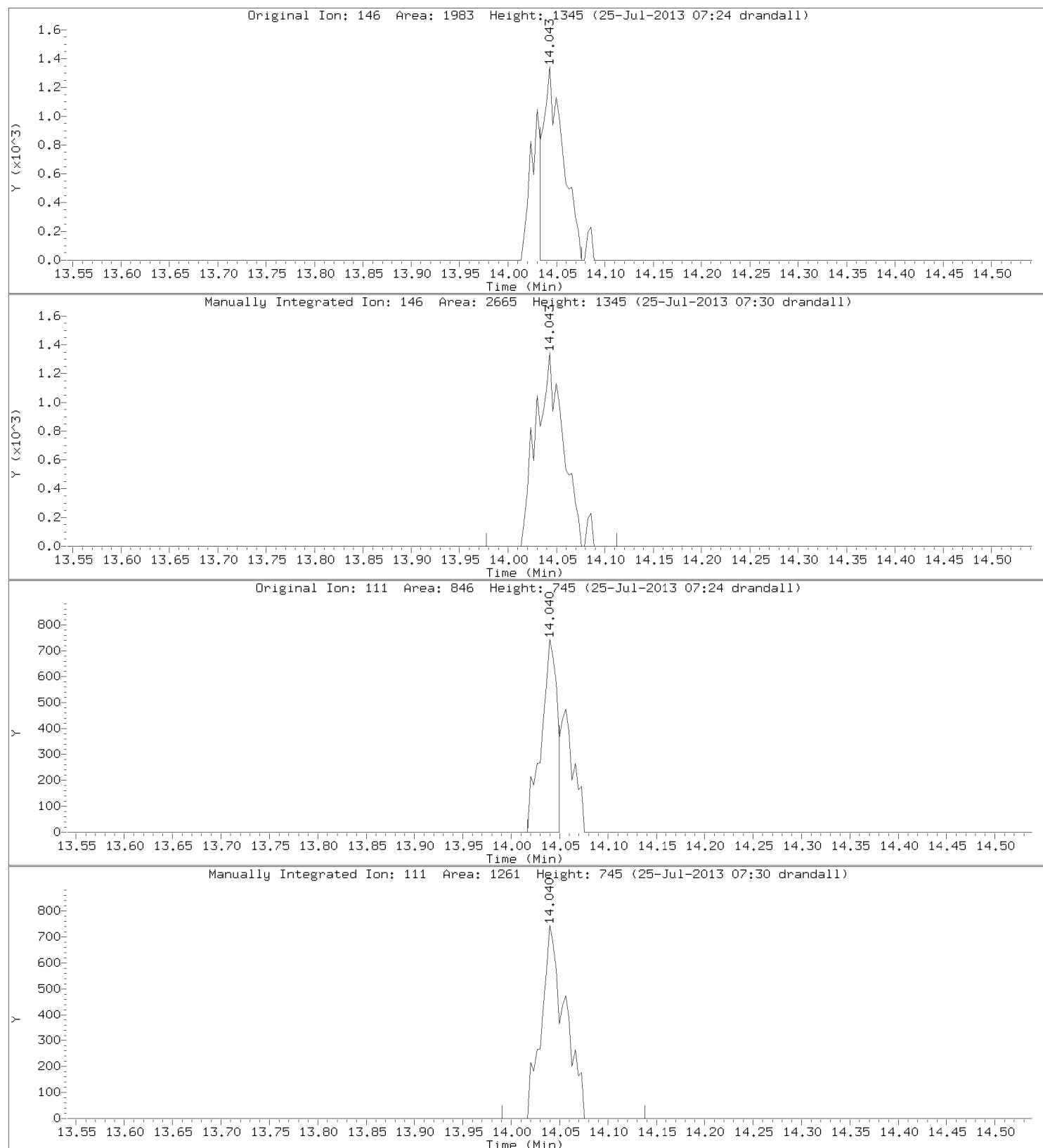


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Instrument: 10airD.i
Lab Sample ID: CAL2

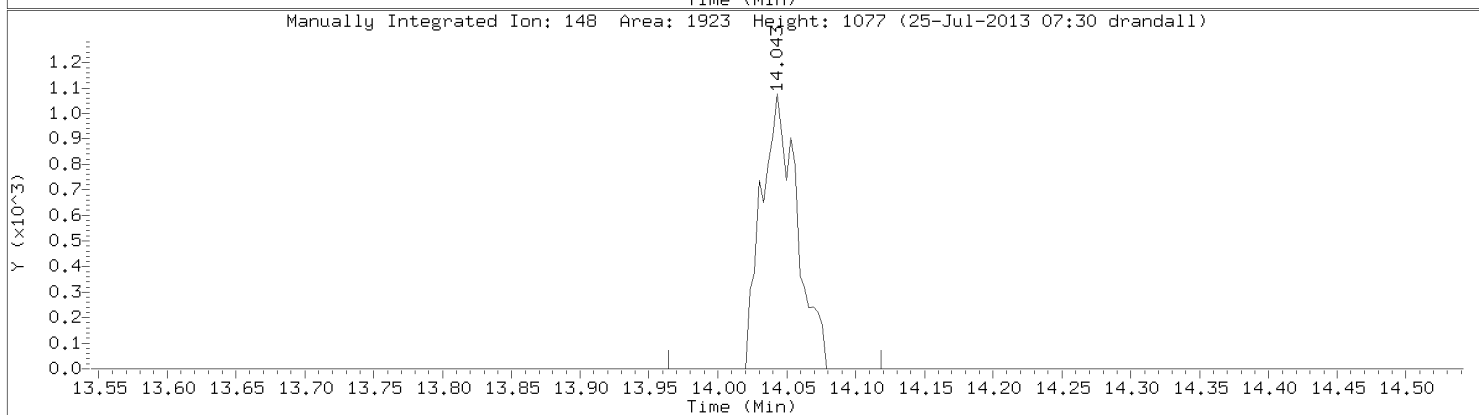
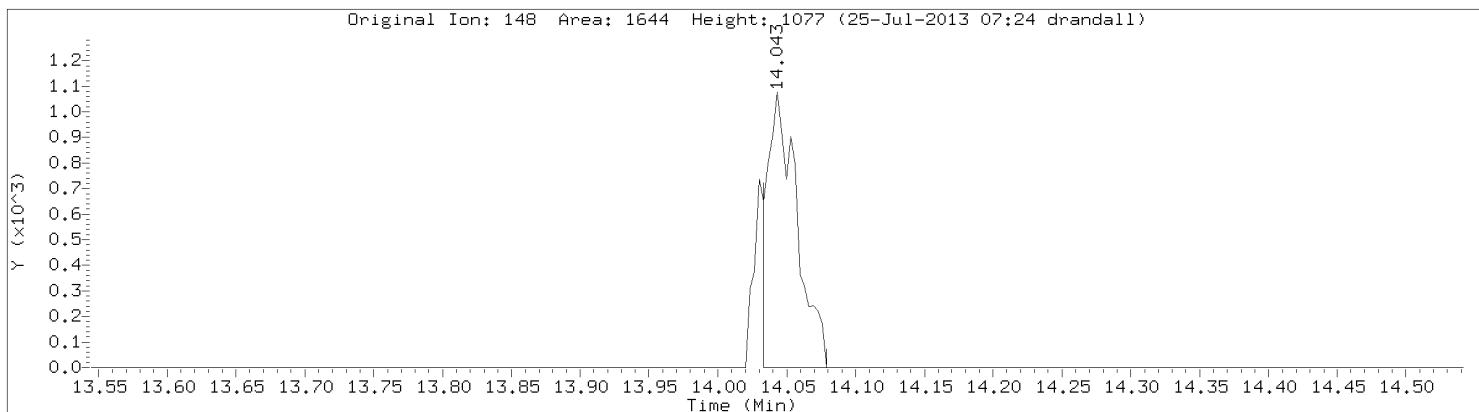


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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

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

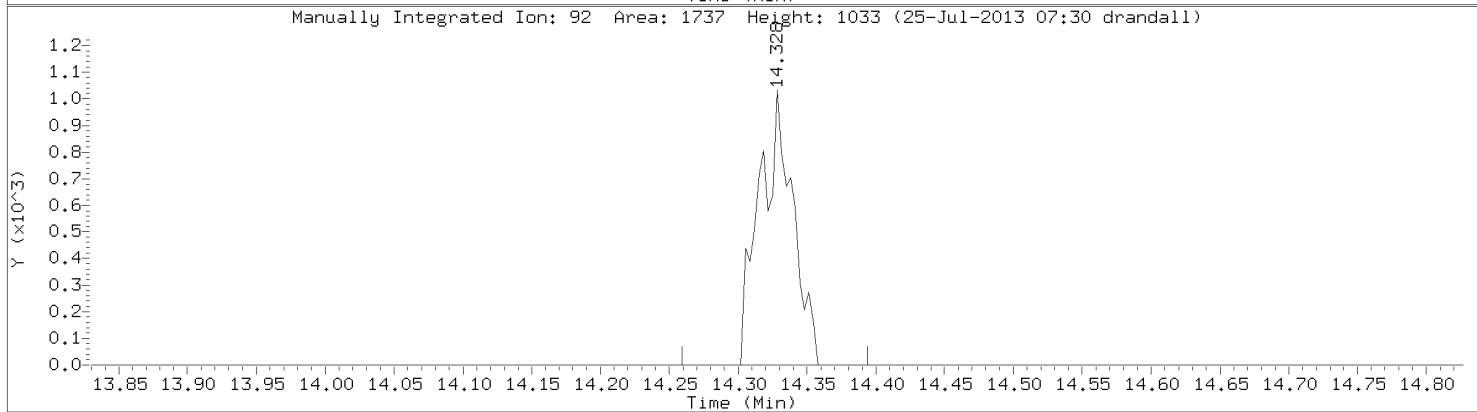
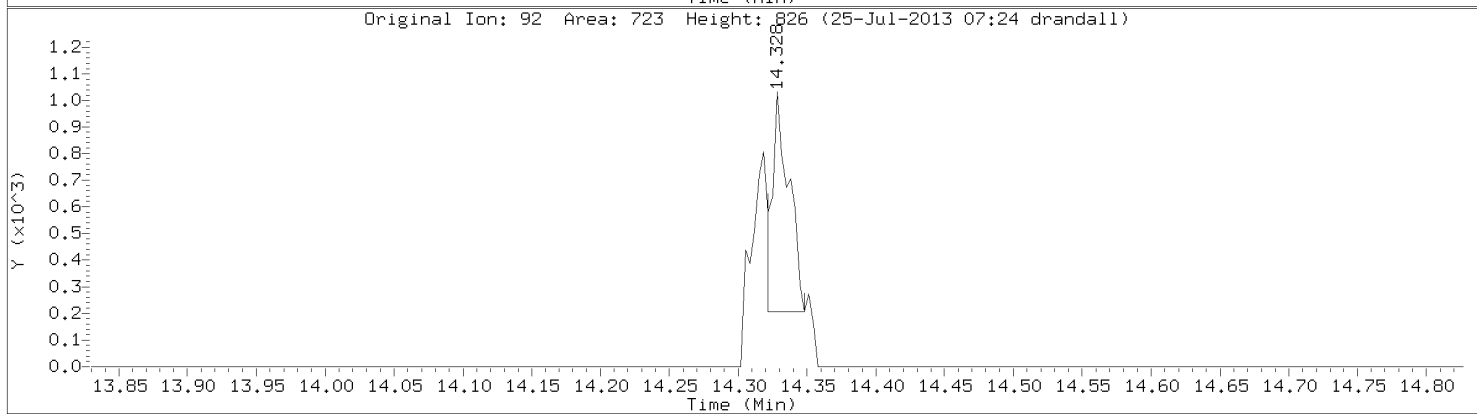
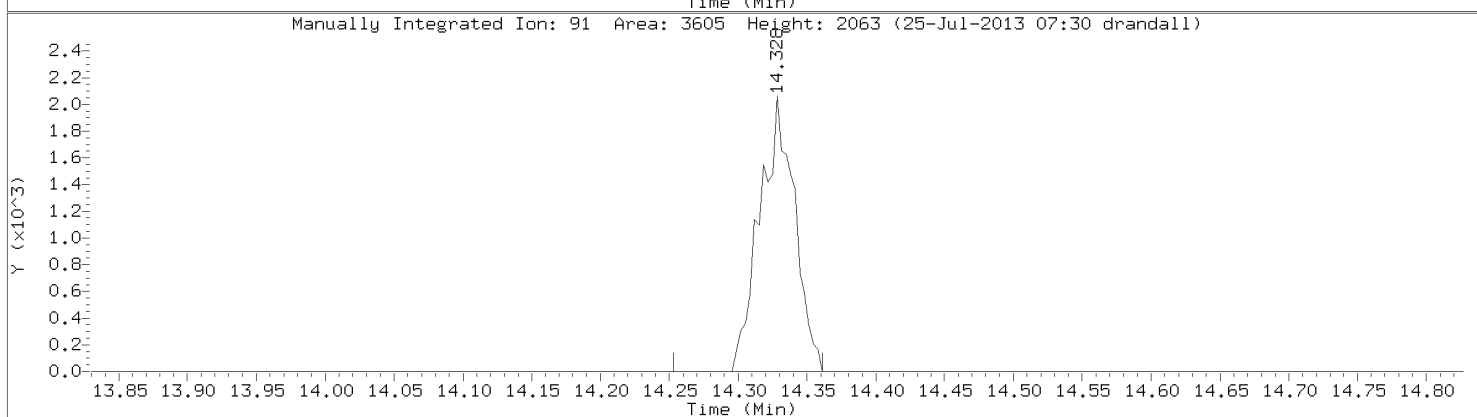
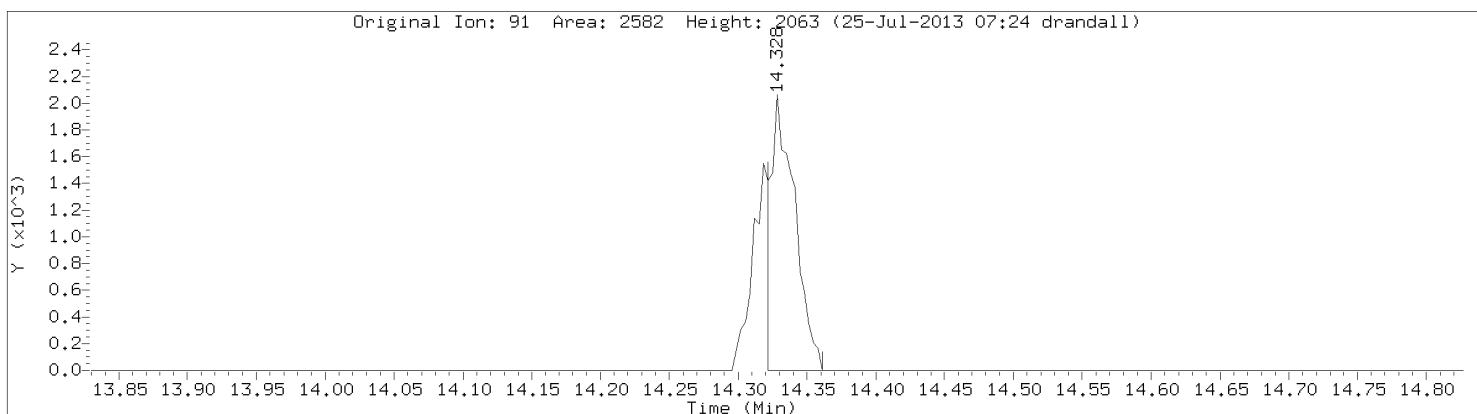


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Instrument: 10airD.i
Lab Sample ID: CAL2



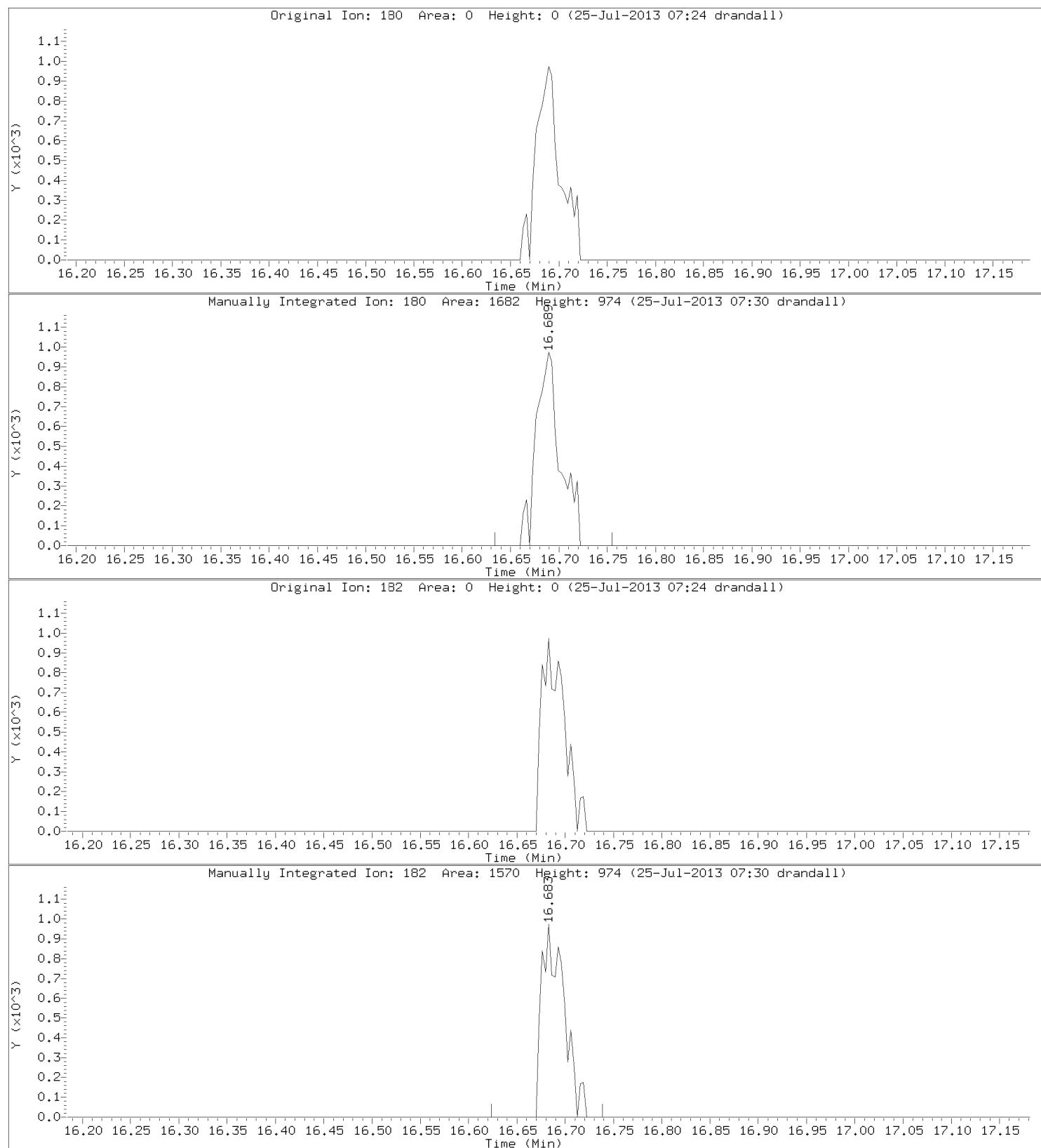
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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

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

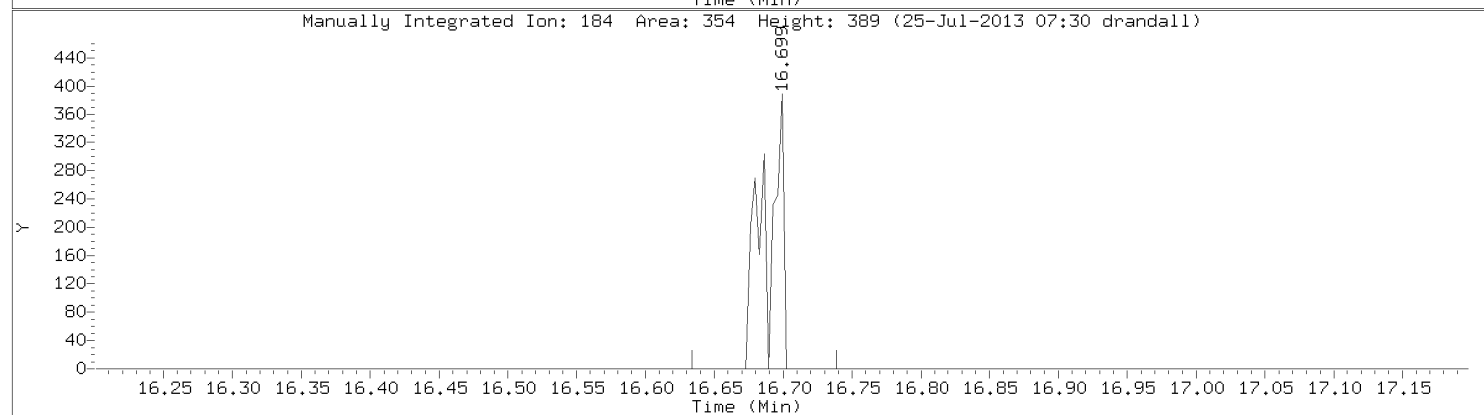
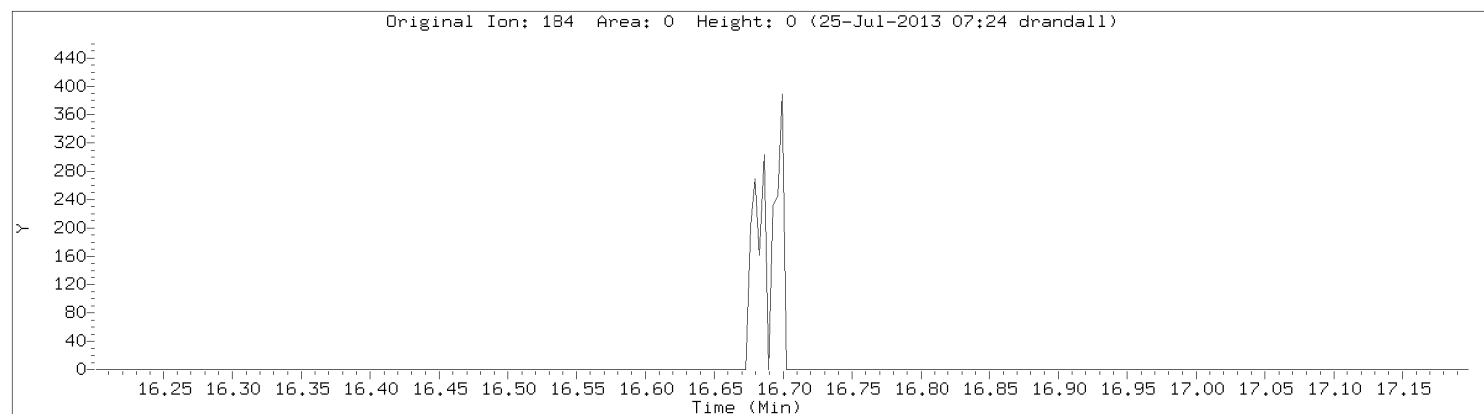


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Instrument: 10airD.i
Lab Sample ID: CAL2

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

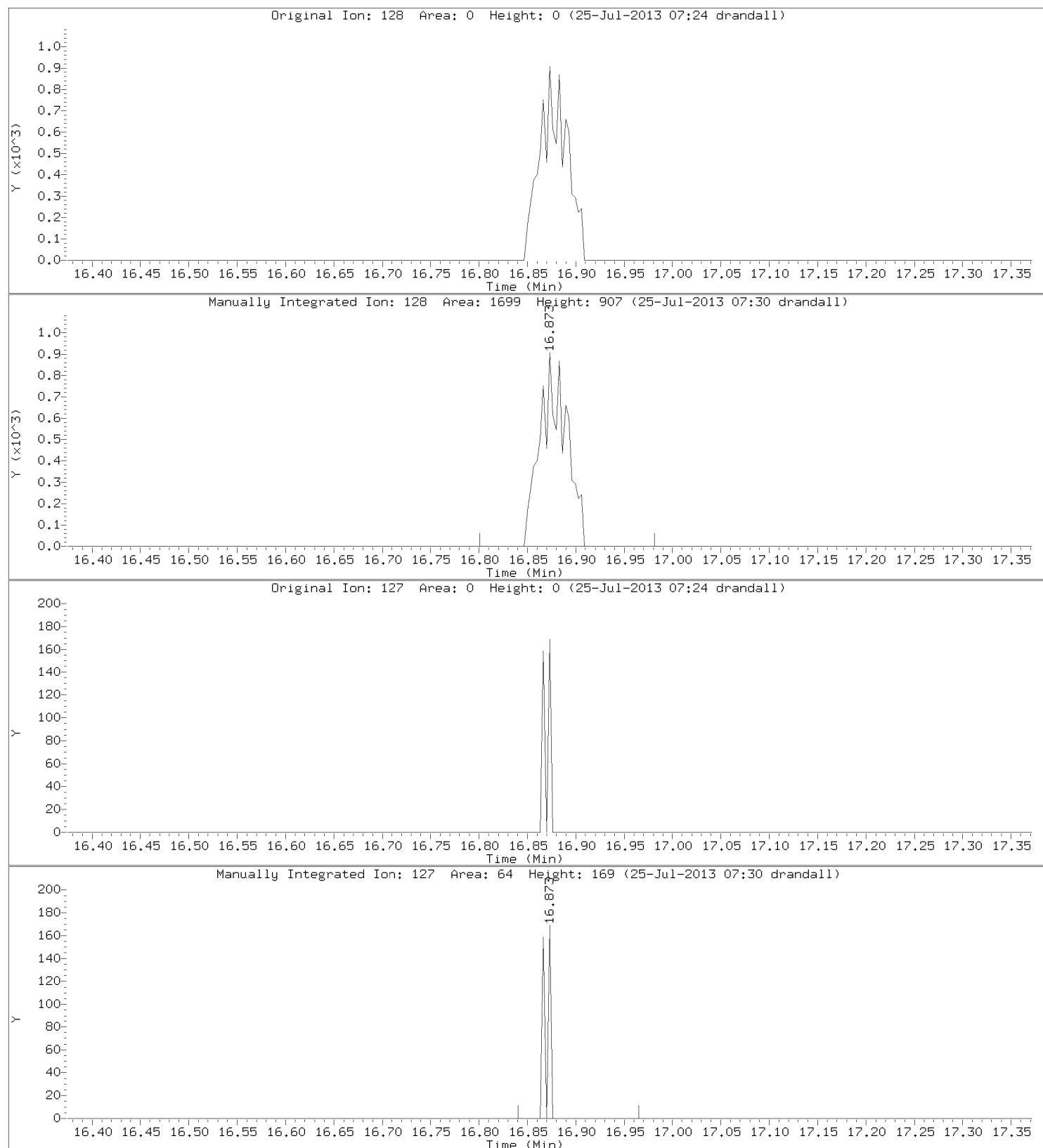


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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2



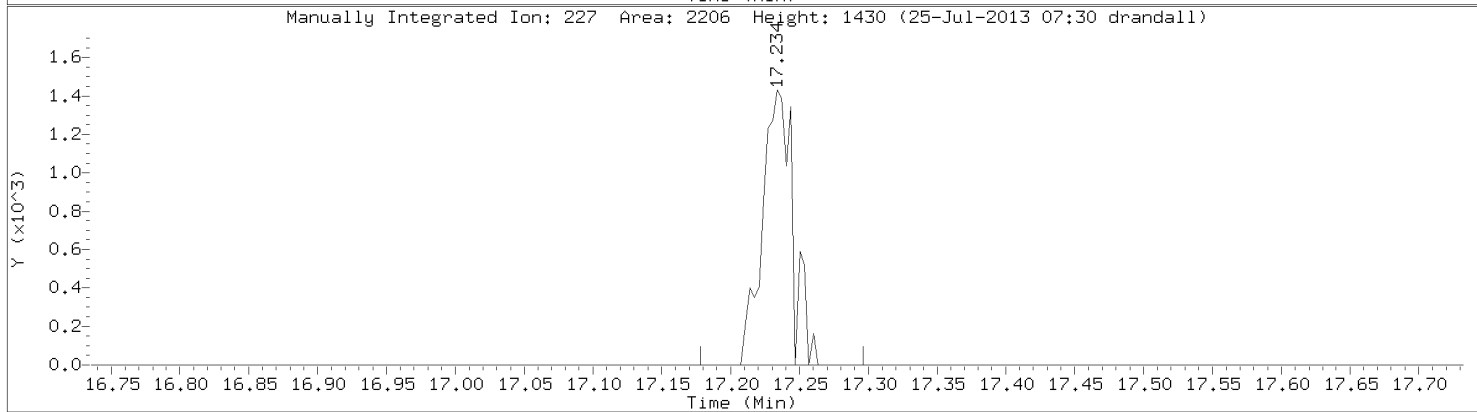
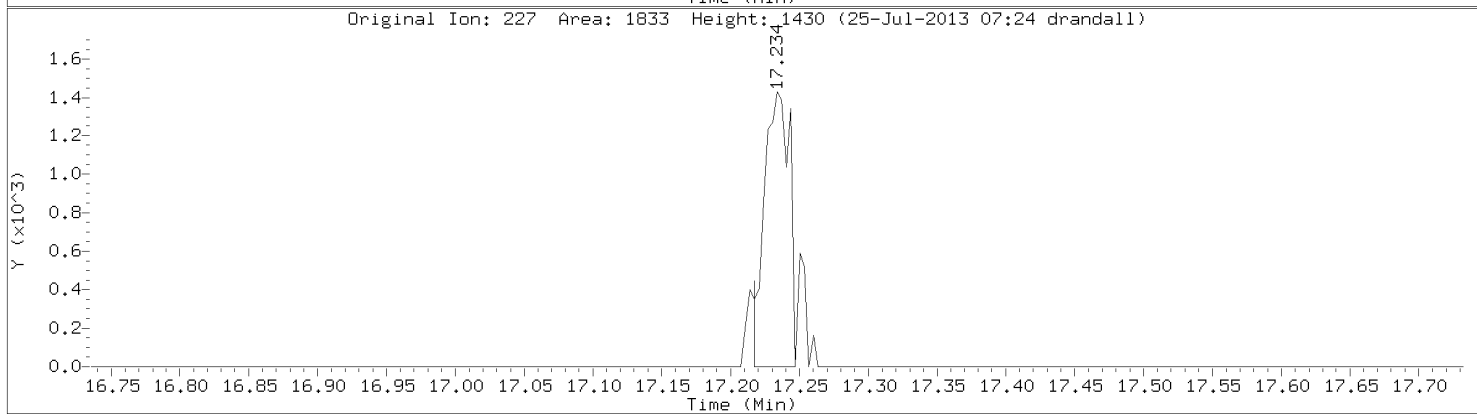
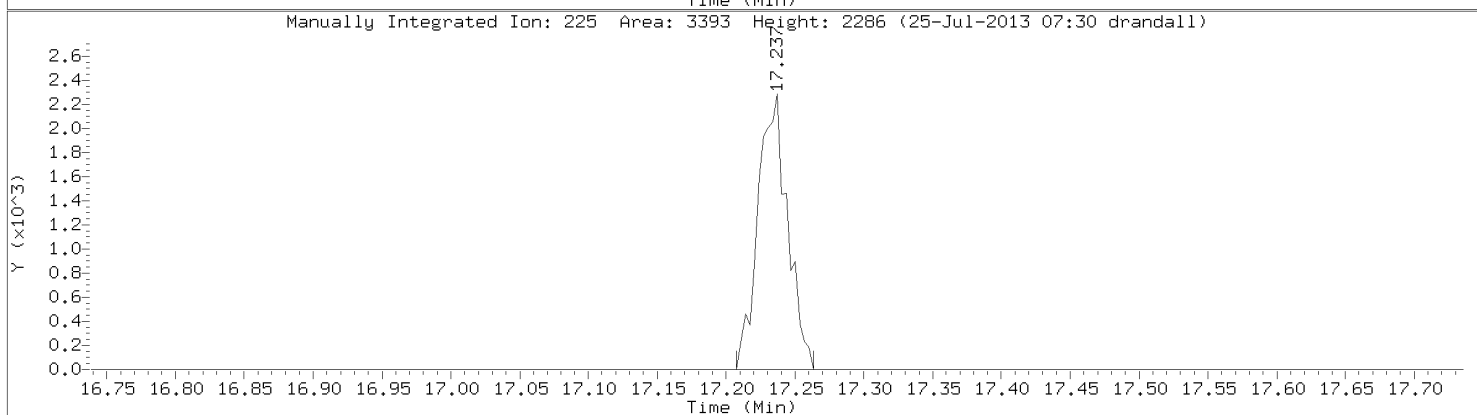
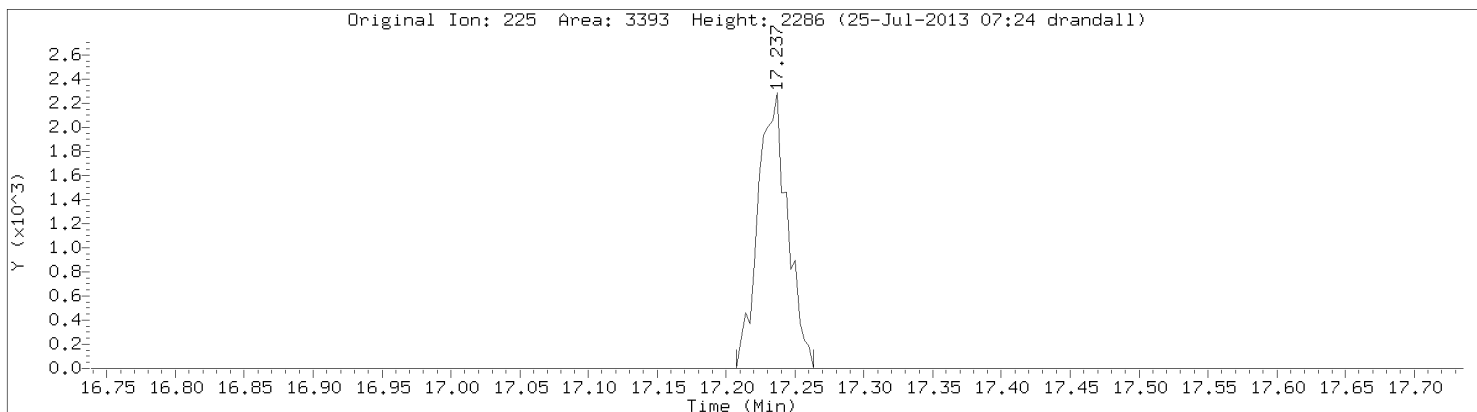
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Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Naphthalene
CAS Number: 91-20-3

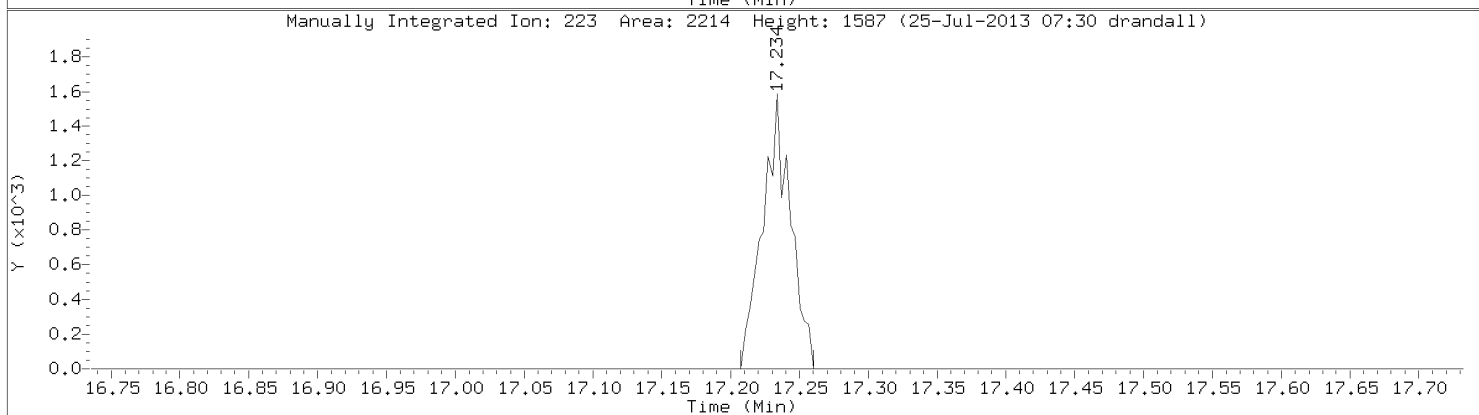
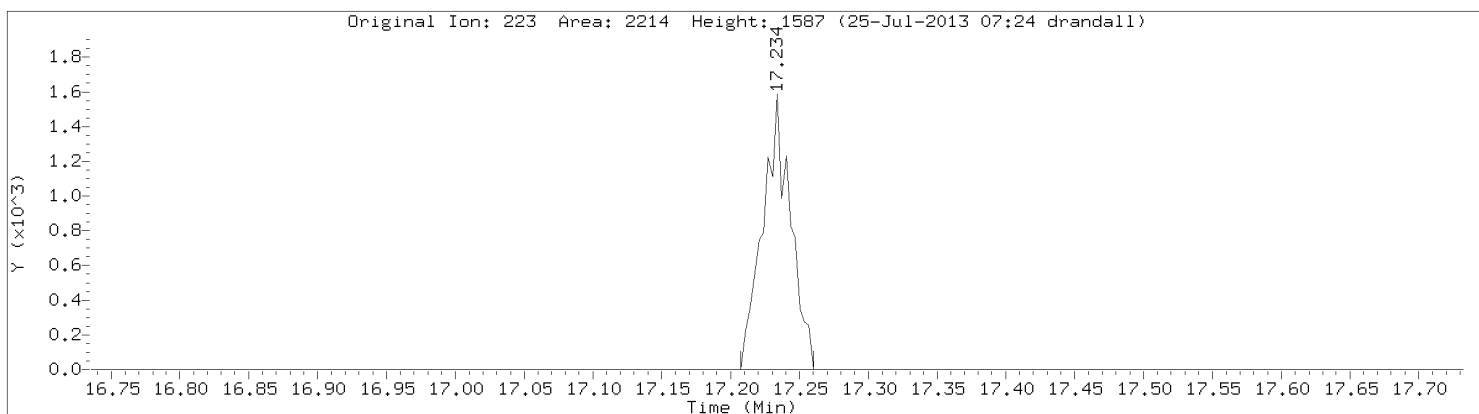


Data File: \\192.168.10.12\chem\10airD.i\072413.b\20505.d
Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2

Compound: Hexachlorobutadiene
CAS Number: 87-68-3



Data File: \\192.168.10.12\chem\10airD.i\072413.b\20505.d
Injection Date: 24-JUL-2013 14:40
Instrument: 10airD.i
Lab Sample ID: CAL2



Data File: \\192.168.10.12\chem\10airD.i\072413.b\20506.d
 Report Date: 25-Jul-2013 07:32

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072413.b\20506.d
 Lab Smp Id: CAL3
 Inj Date : 24-JUL-2013 15:08
 Operator : DR1 Inst ID: 10airD.i
 Smp Info :
 Misc Info :
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\072413.b\TO15_205-13.m
 Meth Date : 25-Jul-2013 07:24 drandall Quant Type: ISTD
 Cal Date : 24-JUL-2013 15:08 Cal File: 20506.d
 Als bottle: 6 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10AIRPC4

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	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ppbv)	ON-COL (ppbv)
1 Propylene	41	2.981	2.981 (0.490)		6143	1.00000	0.920
2 Dichlorodifluoromethane	85	3.008	3.008 (0.494)		68516	1.00000	1.01
3 Dichlorotetrafluoroethane	85	3.106	3.106 (0.510)		53136	1.00000	0.974
4 Chloromethane	50	3.109	3.109 (0.511)		14915	1.00000	0.962
5 Vinyl chloride	62	3.191	3.191 (0.524)		14360	1.00000	0.929
6 1,3-Butadiene	54	3.234	3.234 (0.531)		8565	1.00000	0.939
7 Bromomethane	94	3.391	3.391 (0.557)		18612	1.00000	0.956
8 Chloroethane	64	3.447	3.447 (0.566)		7523	1.00000	0.907 (M)
9 Ethanol	31	3.516	3.516 (0.578)		7874	1.00000	0.844 (M)
10 Vinyl Bromide	106	3.585	3.585 (0.589)		17665	1.00000	0.918 (M)
11 Acrolein	56	3.706	3.706 (0.609)		4505	1.00000	0.974 (M)
12 Trichlorofluoromethane	101	3.693	3.693 (0.607)		72409	1.00000	0.980
13 Acetone	43	3.752	3.752 (0.616)		33756	1.00000	0.912 (M)
14 Isopropyl Alcohol	45	3.765	3.765 (0.619)		21134	1.00000	0.870
15 1,1-Dichloroethene	61	3.975	3.975 (0.653)		31292	1.00000	0.952
16 Acrylonitrile	53	4.001	4.001 (0.657)		9857	1.00000	0.987 (M)
17 Tert Butyl Alcohol	59	3.985	3.985 (0.655)		35211	1.00000	0.843 (M)
18 Freon 113	101	4.031	4.031 (0.662)		47870	1.00000	0.971
19 Methylene chloride	49	4.093	4.093 (0.672)		20578	1.00000	0.879
20 Allyl Chloride	76	4.110	4.110 (0.675)		7570	1.00000	0.962 (M)
21 Carbon Disulfide	76	4.228	4.228 (0.695)		54700	1.00000	0.896
22 trans-1,2-dichloroethene	96	4.418	4.418 (0.726)		19600	1.00000	0.929
23 Methyl Tert Butyl Ether	73	4.460	4.460 (0.733)		47938	1.00000	0.954 (M)

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
24 Vinyl Acetate	43		4.582	4.582	(0.753)	32699	1.00000	0.916 (M)	
25 1,1-Dichloroethane	63		4.578	4.578	(0.752)	35020	1.00000	0.956	
\$ 26 Hexane-d14 (S)	66		4.697	4.697	(0.772)	271828	10.0000	10.1	
27 Methyl Ethyl Ketone	72		4.792	4.792	(0.787)	8082	1.00000	0.951	
28 n-Hexane	57		4.815	4.815	(0.791)	23790	1.00000	0.925	
29 cis-1,2-Dichloroethene	96		4.972	4.972	(0.817)	16249	1.00000	0.927	
30 Ethyl Acetate	43		5.005	5.005	(0.822)	21971	1.00000	1.08 (M)	
31 Chloroform	83		5.110	5.110	(0.839)	41957	1.00000	0.919	
32 Tetrahydrofuran	42		5.329	5.329	(0.876)	6892	1.00000	0.845 (M)	
33 1,1,1-Trichloroethane	97		5.595	5.595	(0.919)	45946	1.00000	0.939	
34 1,2-Dichloroethane	62		5.611	5.611	(0.922)	31193	1.00000	0.920	
35 Benzene	78		5.877	5.877	(0.966)	35586	1.00000	0.836	
36 Carbon tetrachloride	117		5.900	5.900	(0.969)	49215	1.00000	0.936	
37 Cyclohexane	56		5.907	5.907	(0.970)	12525	1.00000	0.844 (M)	
* 38 1,4-Difluorobenzene	114		6.087	6.087	(1.000)	558520	10.0000		
39 2,2,4-Trimethylpentane	57		6.264	6.264	(1.029)	41700	1.00000	0.880	
40 Heptane	43		6.435	6.435	(1.057)	13056	1.00000	0.898	
41 1,2-Dichloropropane	63		6.500	6.500	(1.068)	11313	1.00000	1.00 (M)	
42 Trichloroethene	130		6.530	6.530	(1.073)	13513	1.00000	0.814	
43 1,4-Dioxane	88		6.687	6.687	(1.099)	5139	1.00000	2.05 (M)	
44 Bromodichloromethane	83		6.648	6.648	(1.092)	43225	1.00000	0.916	
45 Methyl Isobutyl Ketone	43		7.228	7.228	(1.187)	16374	1.00000	0.794	
46 cis-1,3-Dichloropropene	75		7.277	7.277	(1.196)	19995	1.00000	0.896	
47 trans-1,3-Dichloropropene	75		7.773	7.773	(1.277)	17366	1.00000	0.746	
\$ 48 Toluene-d8 (S)	98		7.841	7.841	(1.288)	382265	10.0000	9.80	
49 Toluene	91		7.933	7.933	(1.303)	42639	1.00000	0.812	
50 1,1,2-Trichloroethane	97		7.940	7.940	(1.304)	16004	1.00000	0.831	
51 Methyl Butyl Ketone	43		8.255	8.255	(0.852)	14464	1.00000	0.819	
52 Dibromochloromethane	129		8.550	8.550	(0.883)	29111	1.00000	0.893	
53 1,2-Dibromoethane	107		8.822	8.822	(0.911)	23125	1.00000	0.861	
54 Tetrachloroethene	166		8.910	8.910	(0.920)	20377	1.00000	0.819	
* 55 Chlorobenzene - d5	117		9.688	9.688	(1.000)	192217	10.0000		
56 Chlorobenzene	112		9.737	9.737	(1.005)	29337	1.00000	0.843	
57 Ethyl Benzene	91		10.039	10.039	(1.036)	47007	1.00000	0.847	
58 m&p-Xylene	91		10.209	10.209	(1.054)	38768	1.00000	0.879	
59 Bromoform	173		10.652	10.652	(1.100)	26790	1.00000	0.791 (M)	
60 Styrene	104		10.704	10.704	(1.105)	20488	1.00000	0.774	
61 o-Xylene	91		10.773	10.773	(1.112)	44715	1.00000	0.950	
62 1,1,2,2-Tetrachloroethane	83		11.088	11.088	(1.145)	25903	1.00000	0.804	
63 Isopropylbenzene	105		11.452	11.452	(1.182)	52278	1.00000	0.800	
64 N-Propylbenzene	91		12.114	12.114	(1.250)	53920	1.00000	1.27 (M)	
65 4-Ethyltoluene	105		12.314	12.314	(1.271)	41970	1.00000	0.822	
66 1,3,5-Trimethylbenzene	105		12.416	12.416	(1.282)	40316	1.00000	0.865	
67 1,2,4-Trimethylbenzene	105		13.016	13.016	(1.344)	28266	1.00000	0.696	
68 1,3-Dichlorobenzene	146		13.367	13.367	(1.380)	20428	1.00000	0.726 (H)	
69 Sec- Butylbenzene	105		13.393	13.393	(1.382)	49537	1.00000	0.820	
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.446	13.446	(1.388)	79385	10.0000	9.43	
71 Benzyl Chloride	91		13.475	13.475	(1.391)	26556	1.00000	0.671 (M)	
72 1,4-Dichlorobenzene	146		13.495	13.495	(1.393)	22882	1.00000	0.750	
73 1,2-Dichlorobenzene	146		14.039	14.039	(1.449)	16908	1.00000	0.714	
74 N-Butylbenzene	91		14.325	14.325	(1.479)	38681	1.00000	0.850	
75 1,2,4-Trichlorobenzene	180		16.676	16.676	(1.721)	10899	1.00000	0.686	
76 Naphthalene	128		16.863	16.863	(1.741)	13607	1.00000	0.622 (M)	
77 Hexachlorobutadiene	225		17.233	17.233	(1.779)	17285	1.00000	0.813	

Data File: \\192.168.10.12\chem\10airD.i\072413.b\20506.d
Report Date: 25-Jul-2013 07:32

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: \\192.168.10.12\chem\10airD.i\072413.b\20506.d
Report Date: 25-Jul-2013 07:32

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 20506.d
Lab Smp Id: CAL3
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\072413.b\TO15_205-13.m
Misc Info:

Calibration Date: 24-JUL-2013
Calibration Time: 15:36

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	558520	-3.67
55 Chlorobenzene - d	221404	132842	309966	192217	-13.18

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	-0.05
55 Chlorobenzene - d	9.69	9.36	10.02	9.69	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\072413.b\20506.D

Date : 24-JUL-2013 15:08

Client ID:

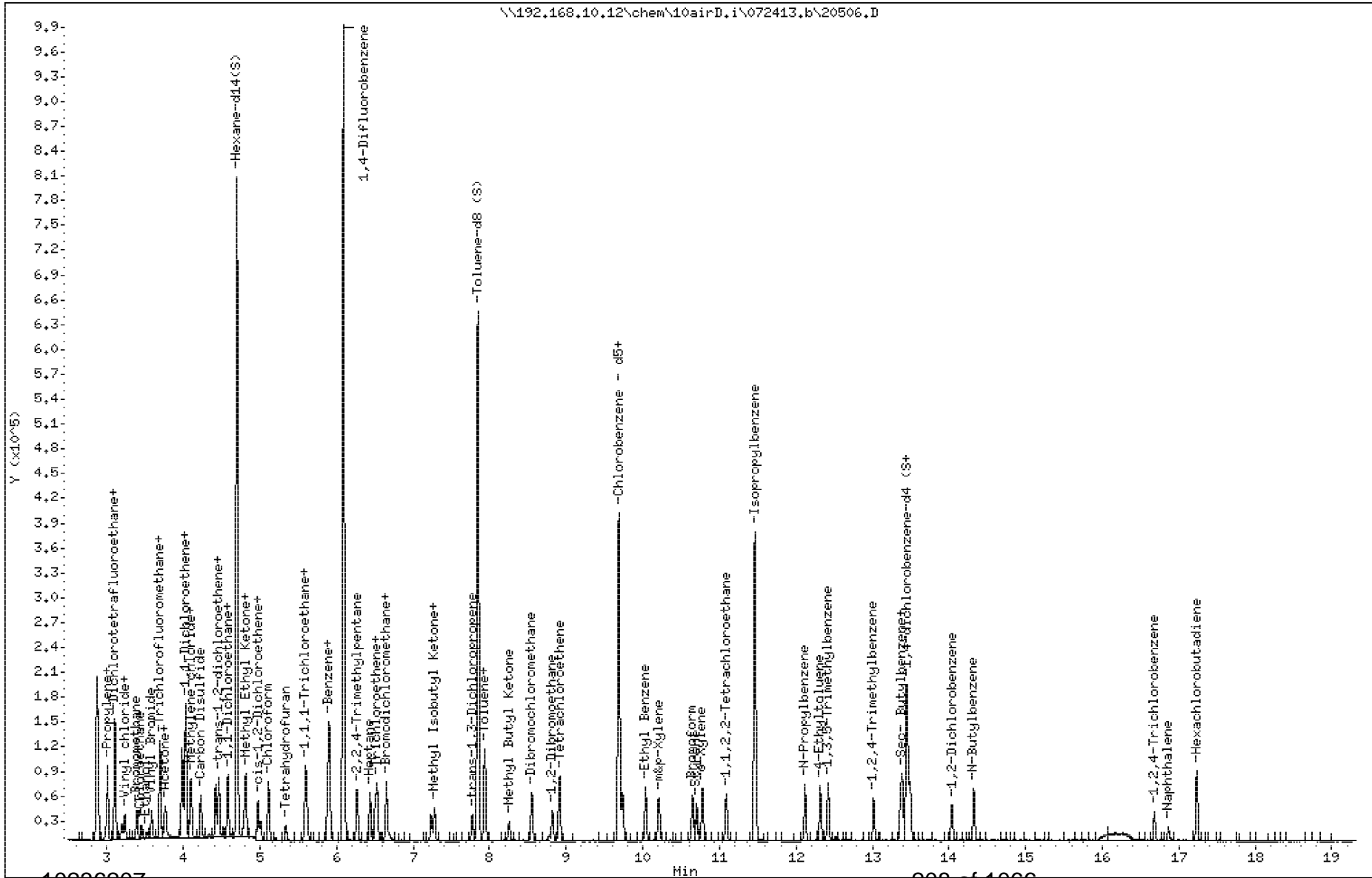
Instrument: 10airD.i

Sample Info:

Operator: DR1

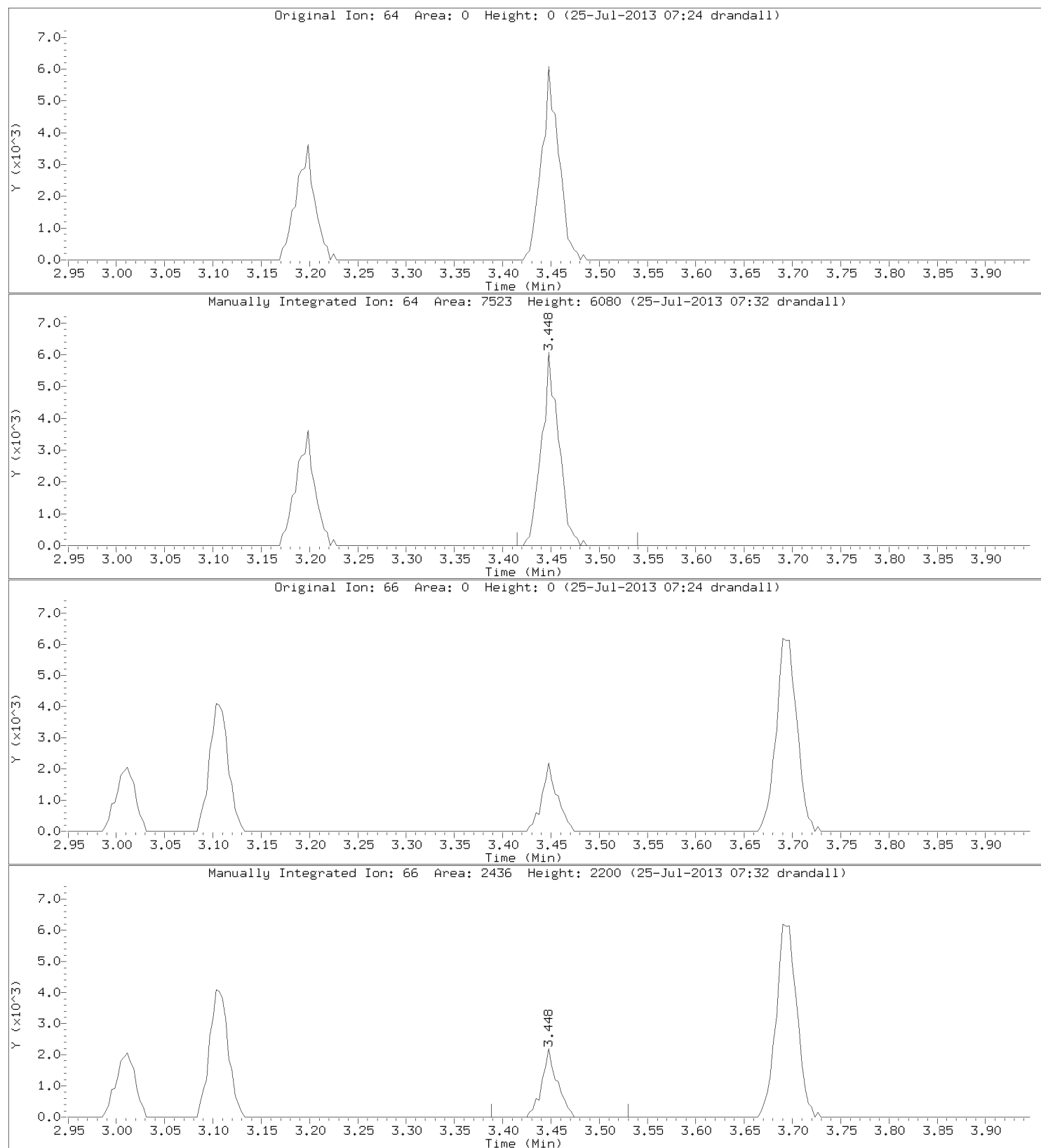
Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\072413.b\20506.d
Injection Date: 24-JUL-2013 15:08
Instrument: 10airD.i
Lab Sample ID: CAL3

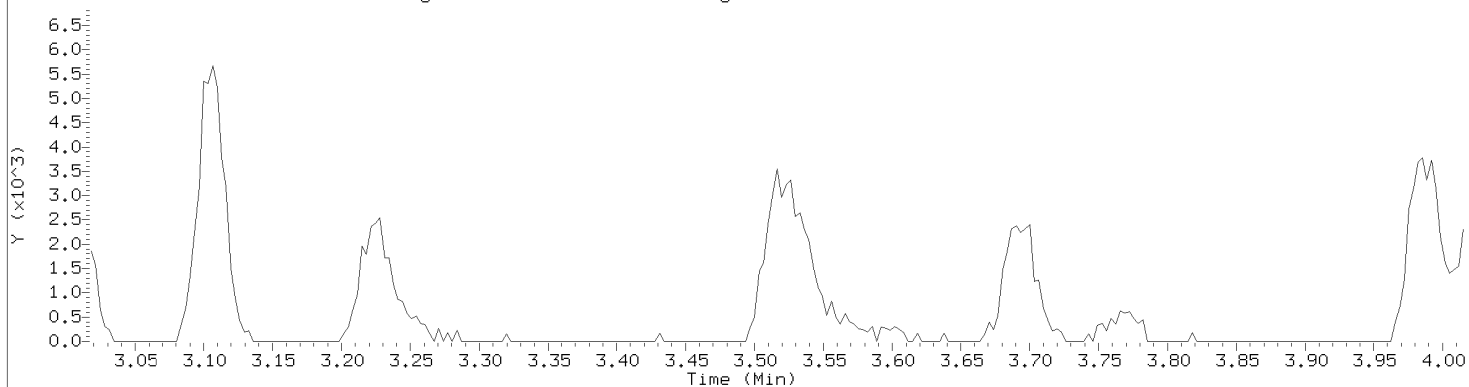
Compound: Chloroethane
CAS Number: 75-00-3



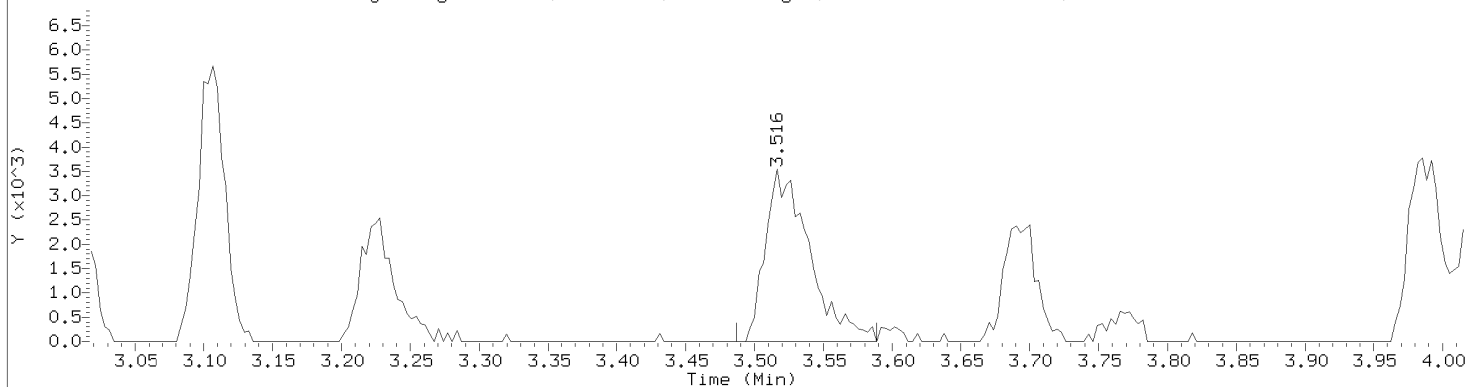
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Injection Date: 24-JUL-2013 15:08
Instrument: 10airD.i
Lab Sample ID: CAL3

Compound: Ethanol
CAS Number: 64-17-5

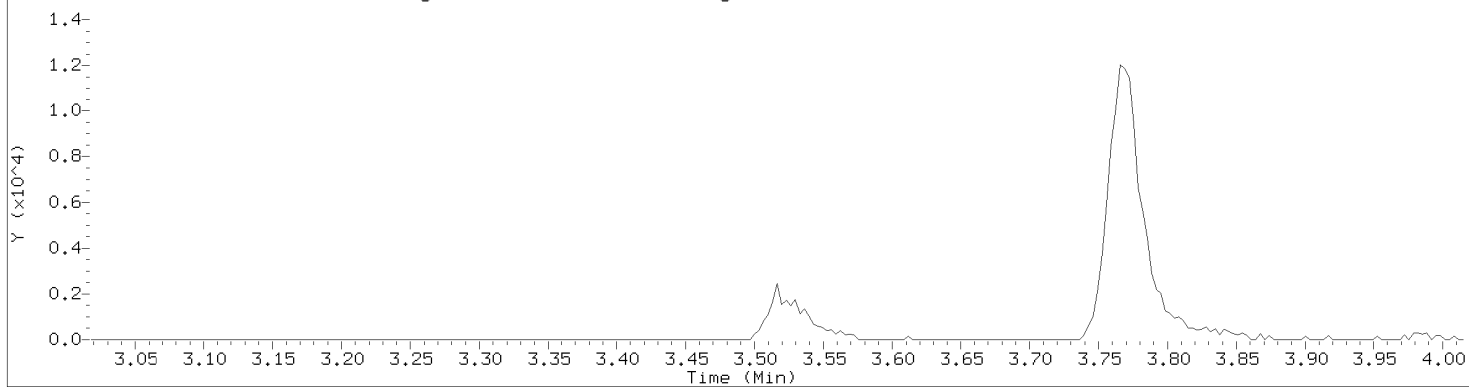
Original Ion: 31 Area: 0 Height: 0 (25-Jul-2013 07:24 drandall)



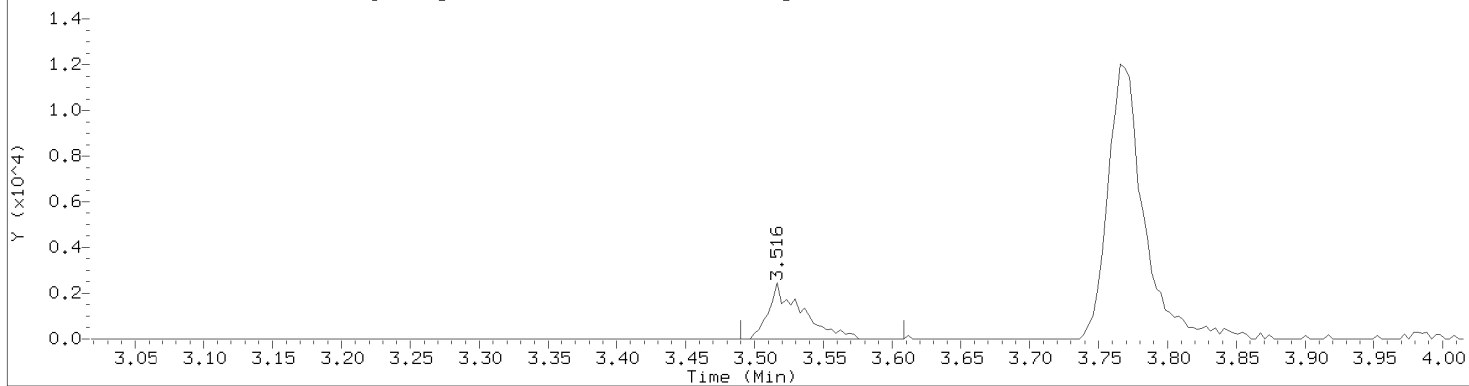
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Original Ion: 45 Area: 0 Height: 0 (25-Jul-2013 07:24 drandall)

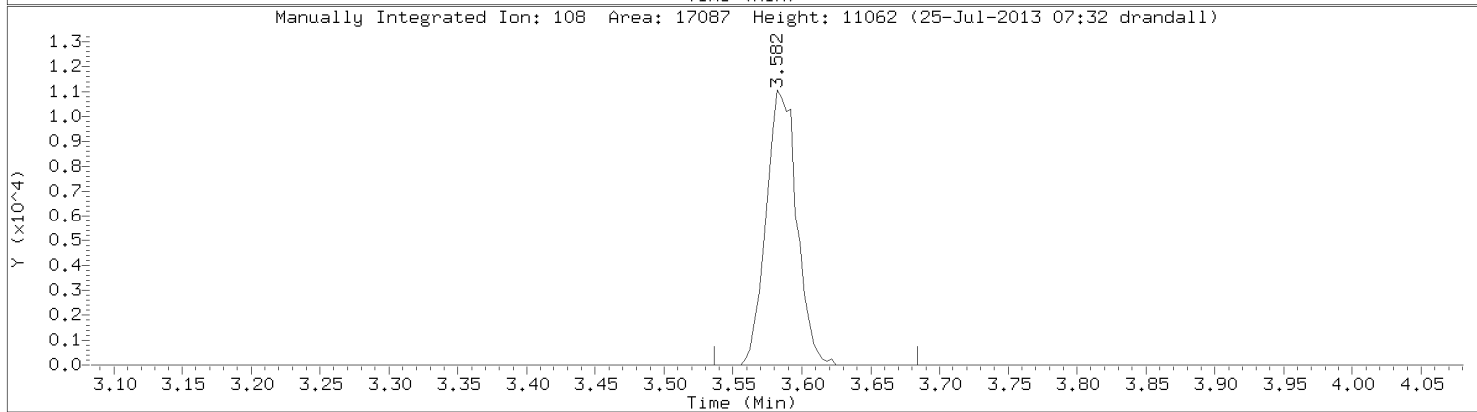
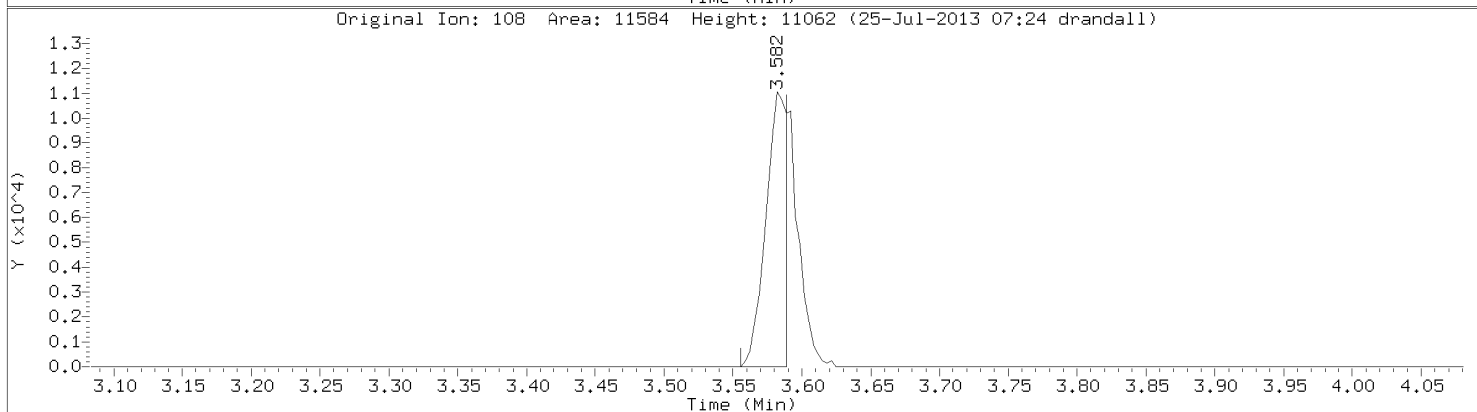
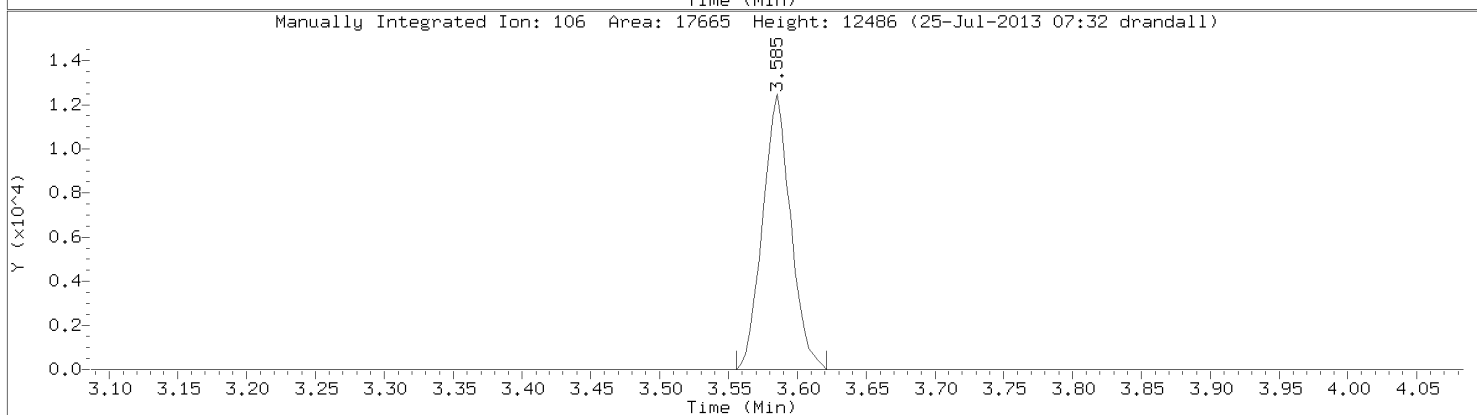
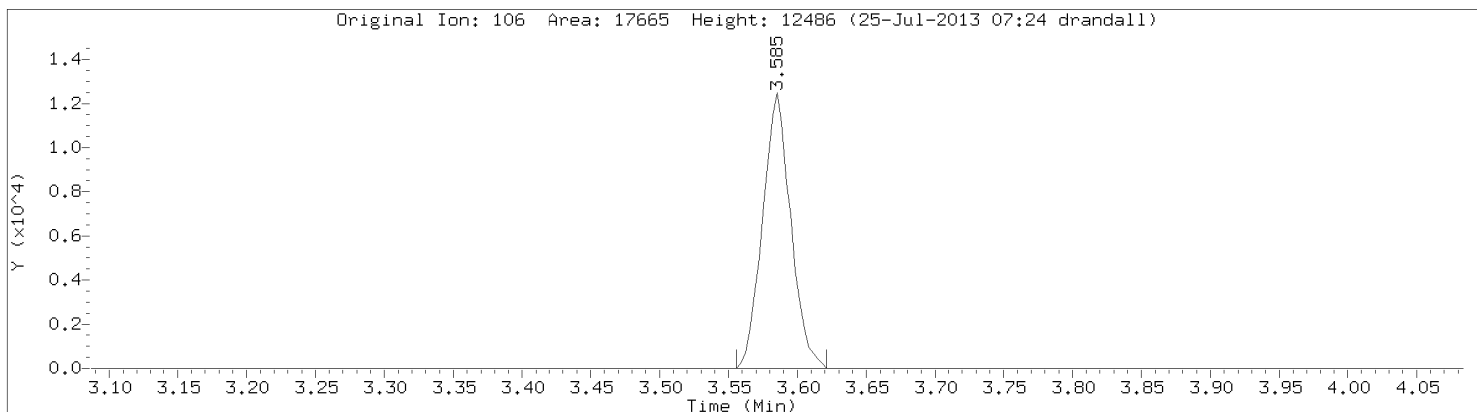


Manually Integrated Ion: 45 Area: 4087 Height: 2468 (25-Jul-2013 07:32 drandall)



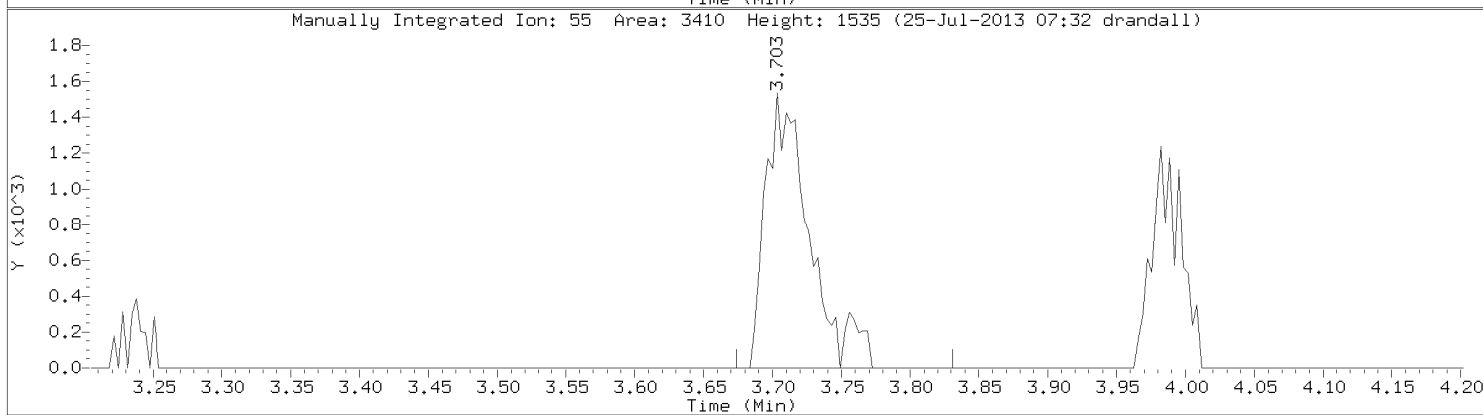
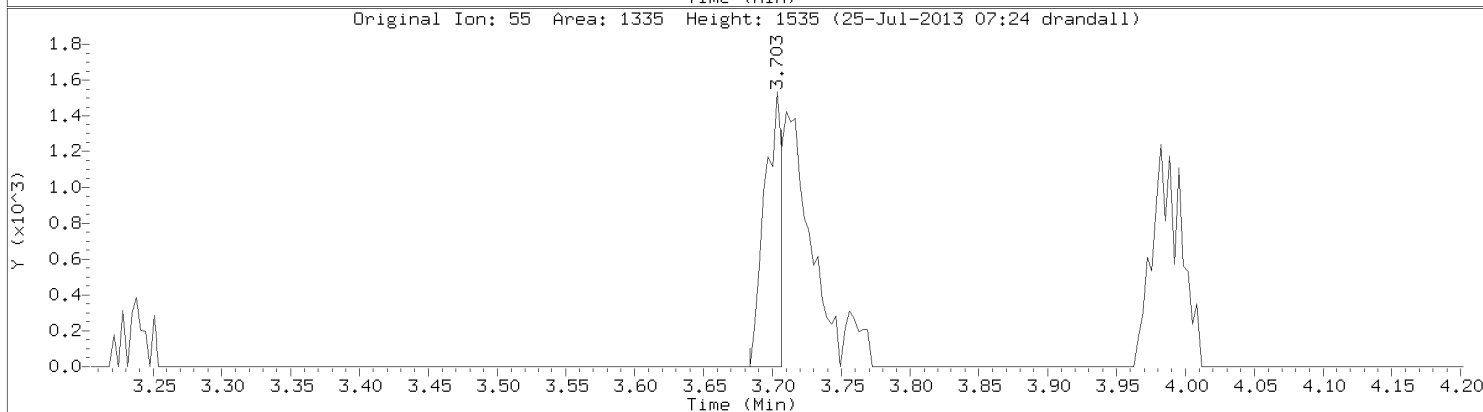
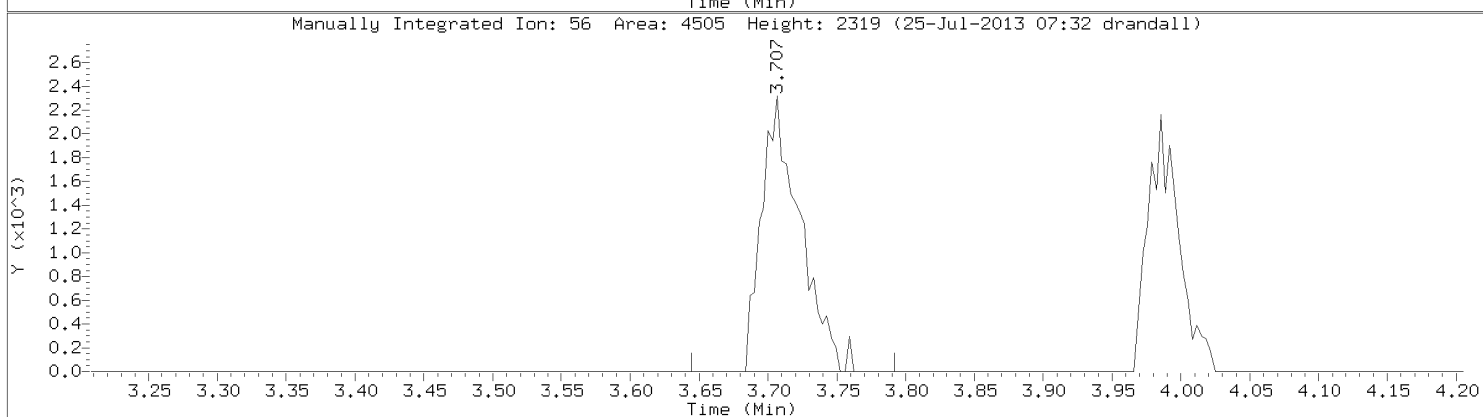
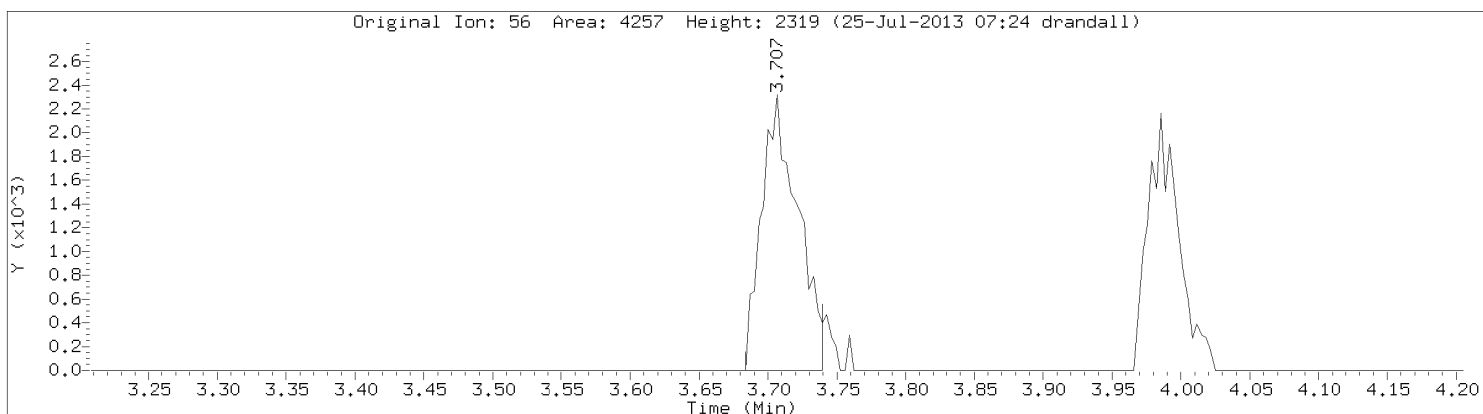
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Injection Date: 24-JUL-2013 15:08
Instrument: 10airD.i
Lab Sample ID: CAL3

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



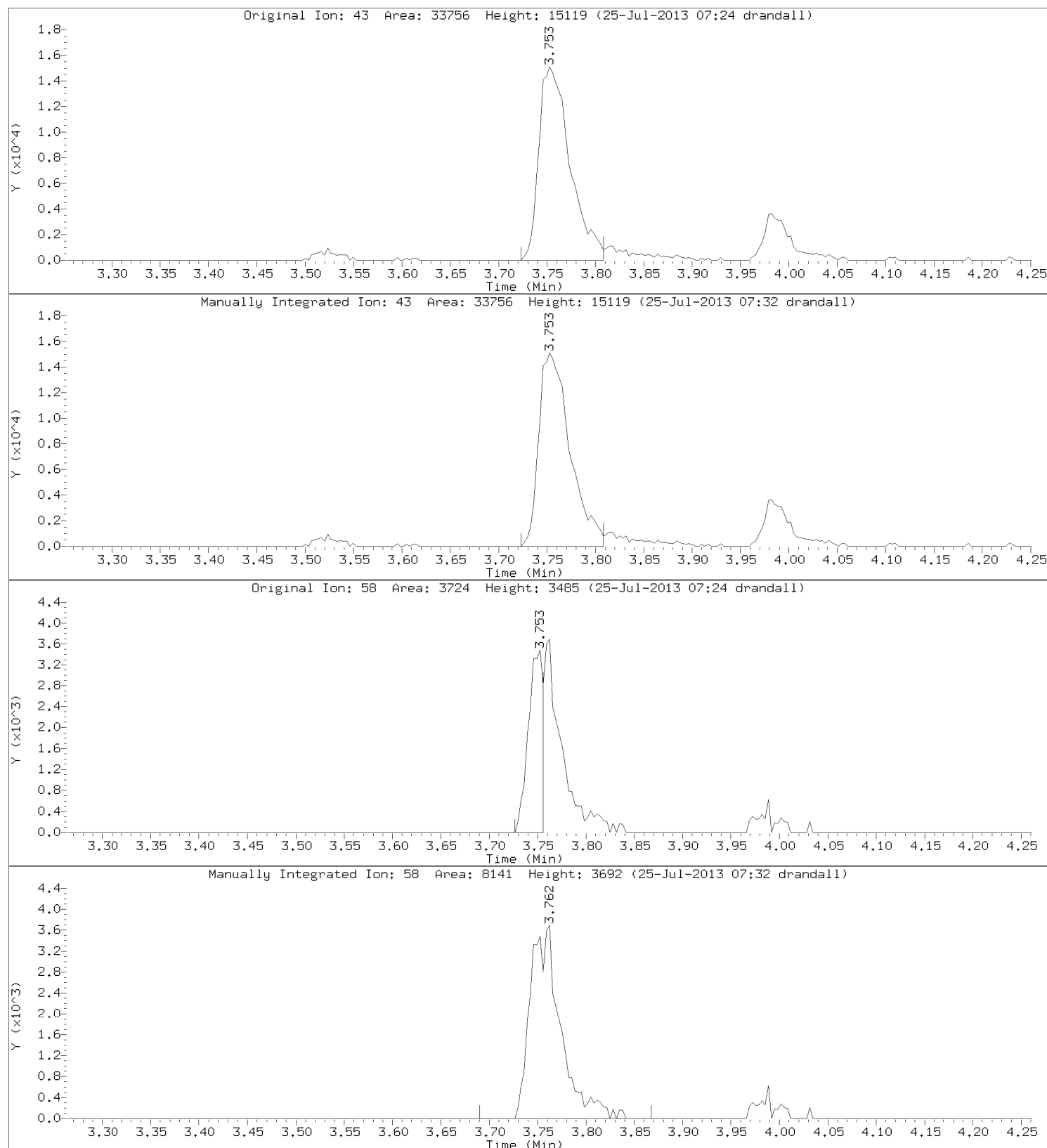
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Injection Date: 24-JUL-2013 15:08
Instrument: 10airD.i
Lab Sample ID: CAL3

Compound: Acrolein
CAS Number: 107-02-08



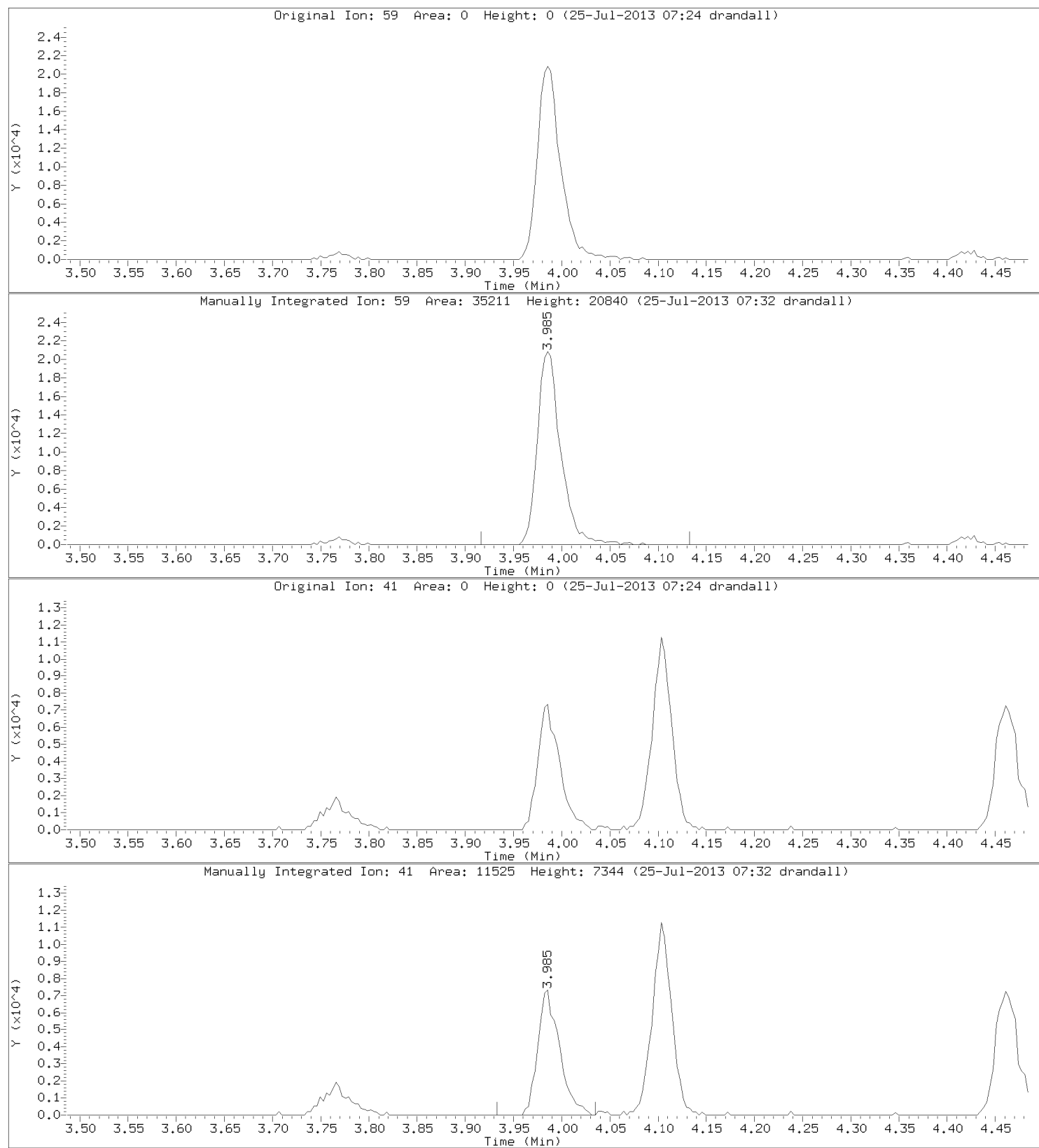
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Injection Date: 24-JUL-2013 15:08
Instrument: 10airD.i
Lab Sample ID: CAL3

Compound: Acetone
CAS Number: 67-64-1



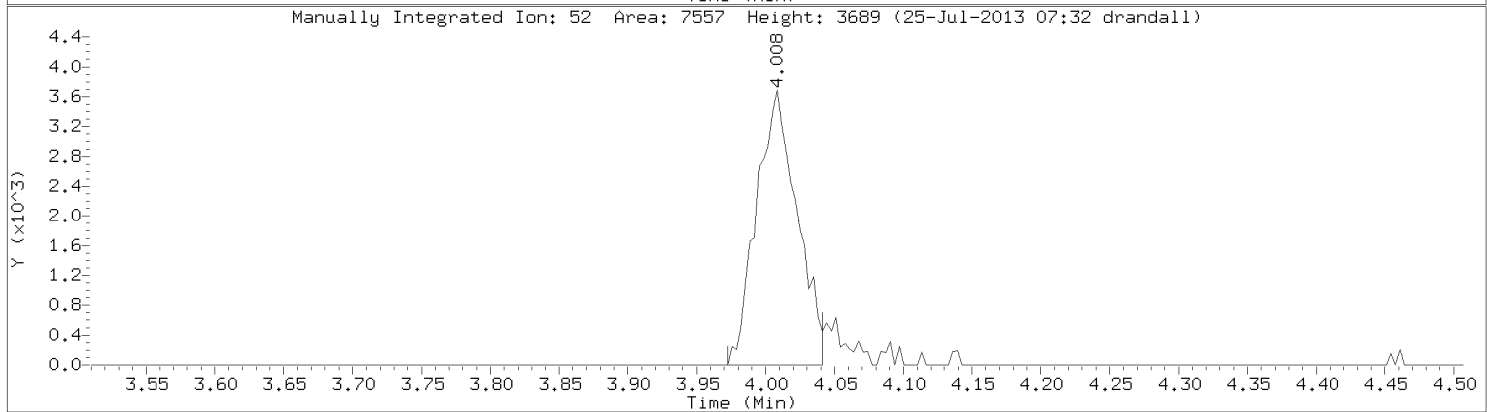
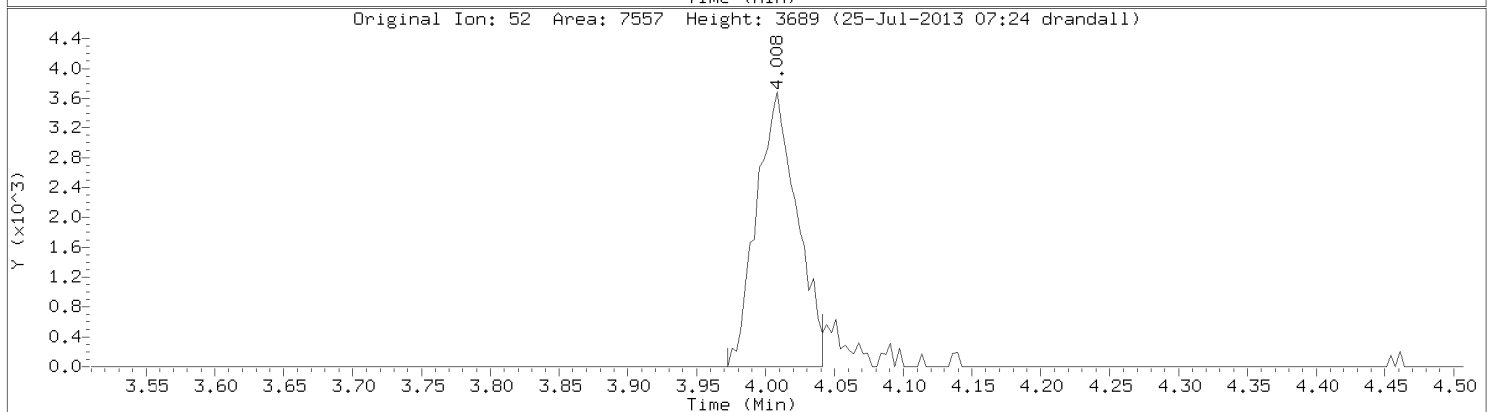
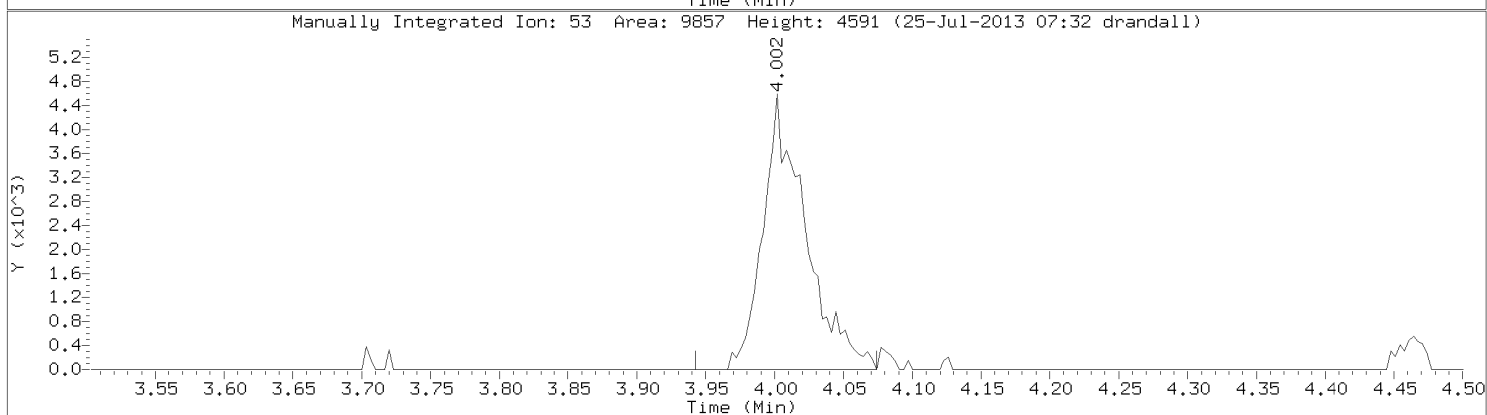
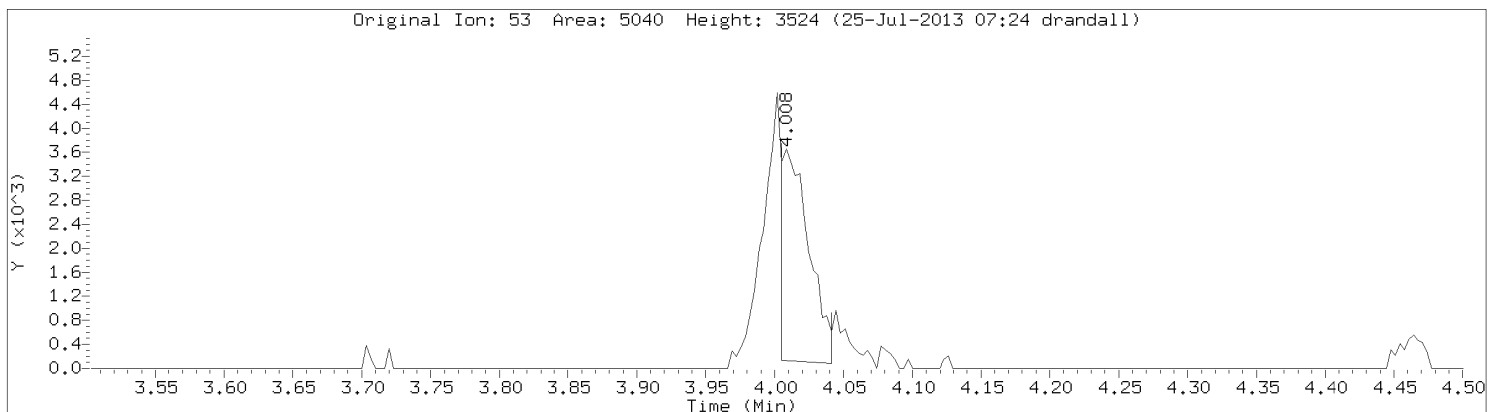
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Instrument: 10airD.i
Lab Sample ID: CAL3

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



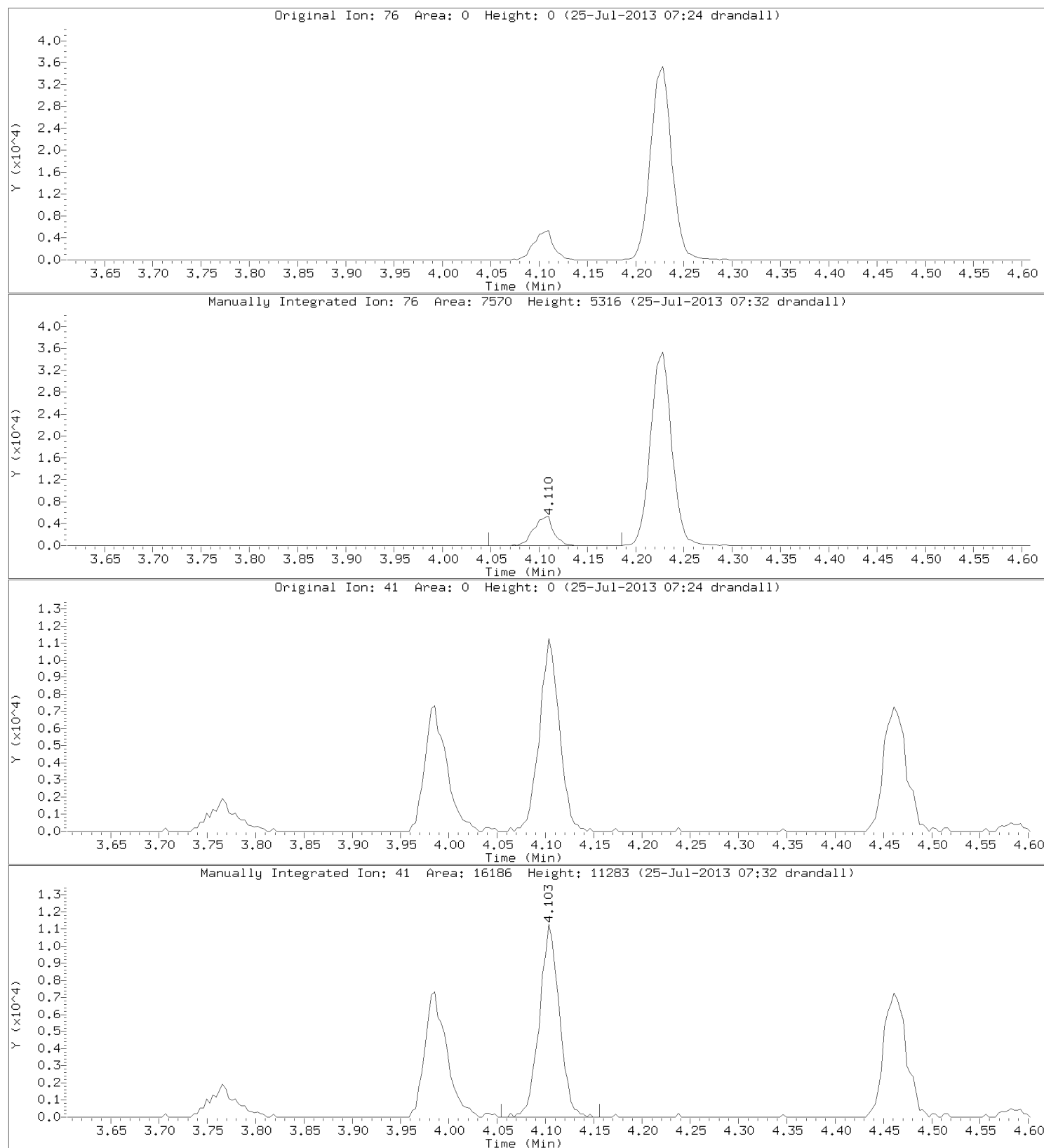
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Instrument: 10airD.i
Lab Sample ID: CAL3

Compound: Acrylonitrile
CAS Number: 107-13-1

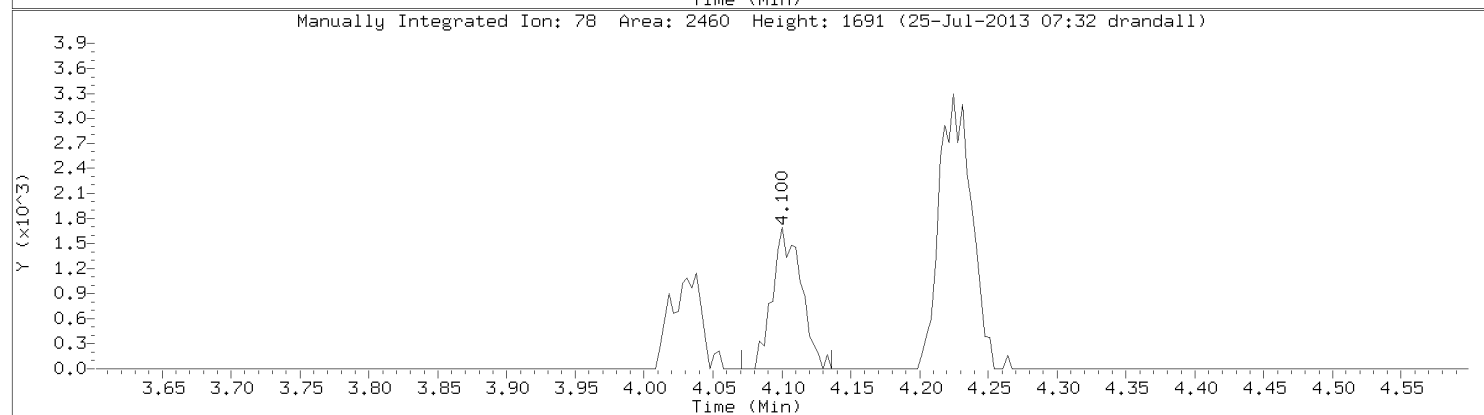
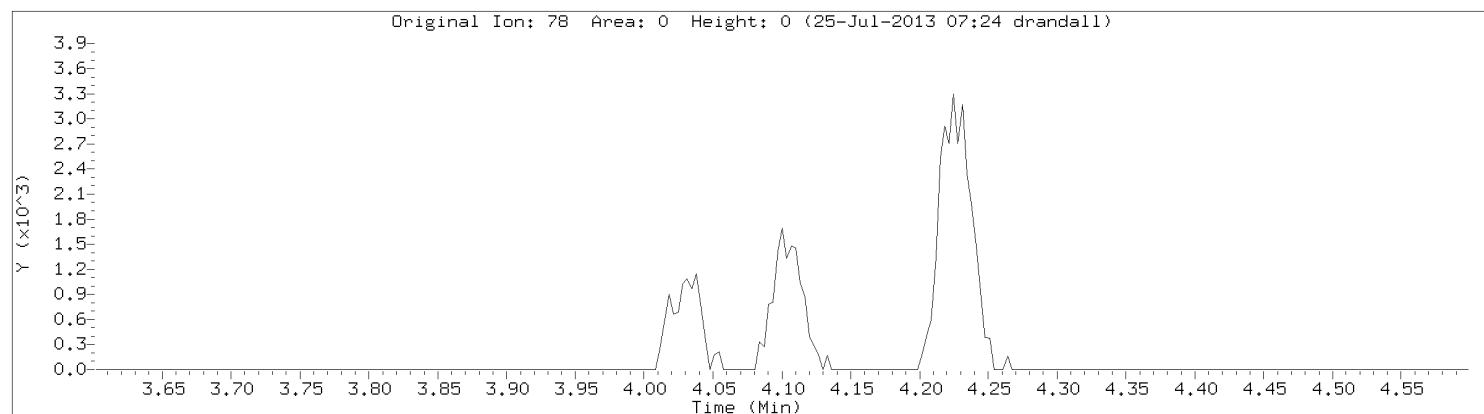


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Instrument: 10airD.i
Lab Sample ID: CAL3

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

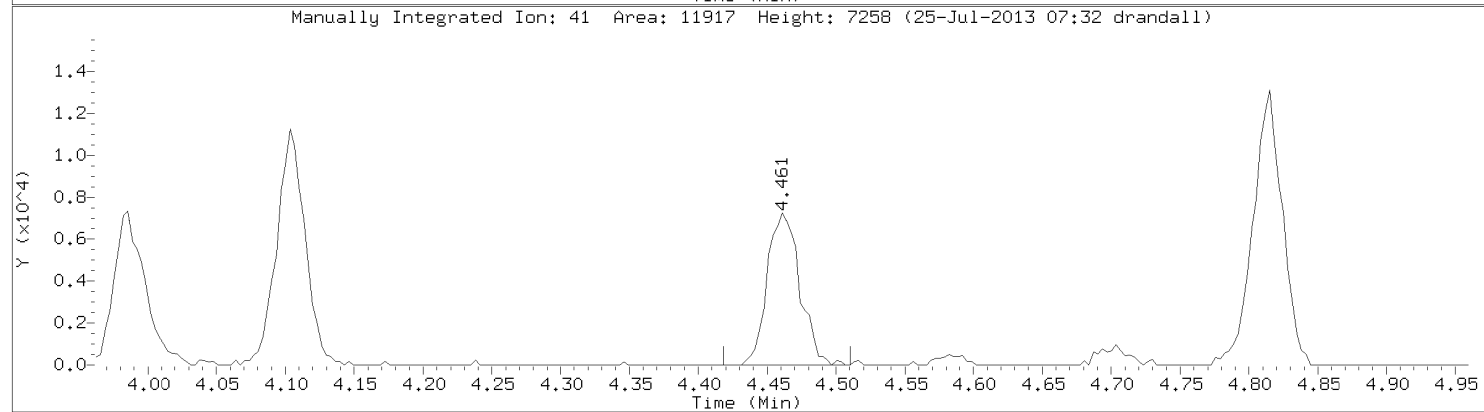
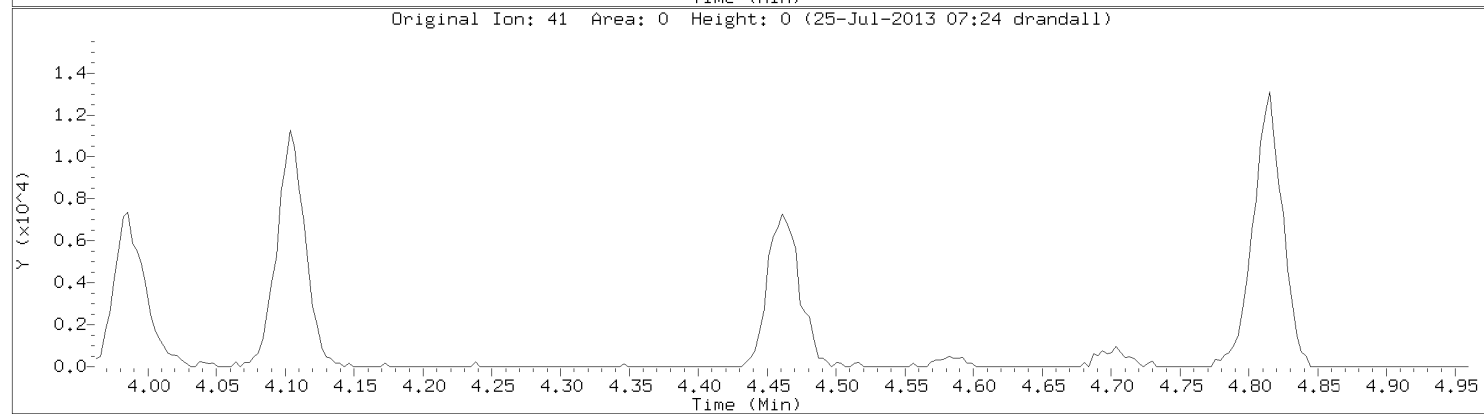
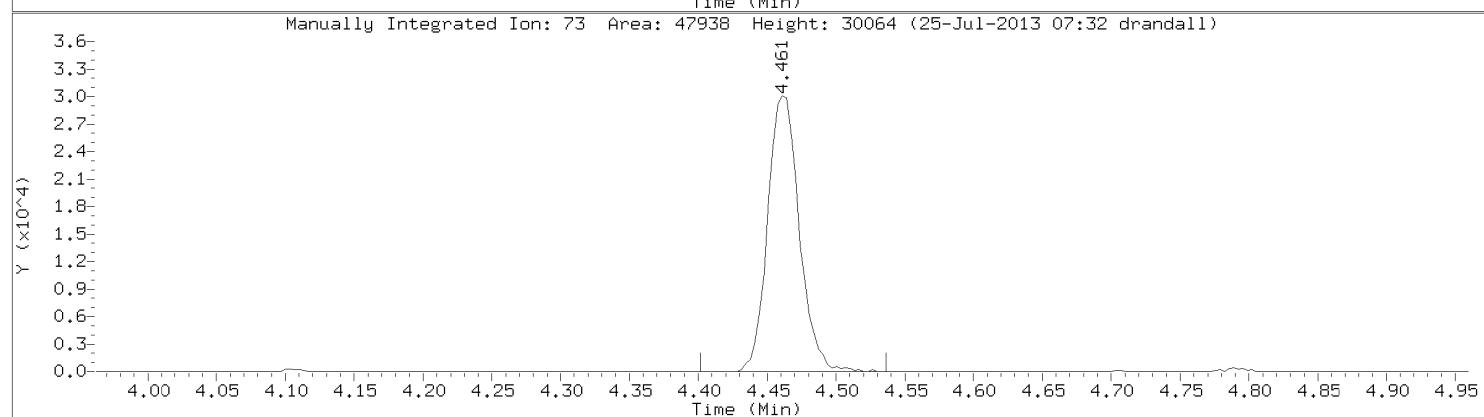
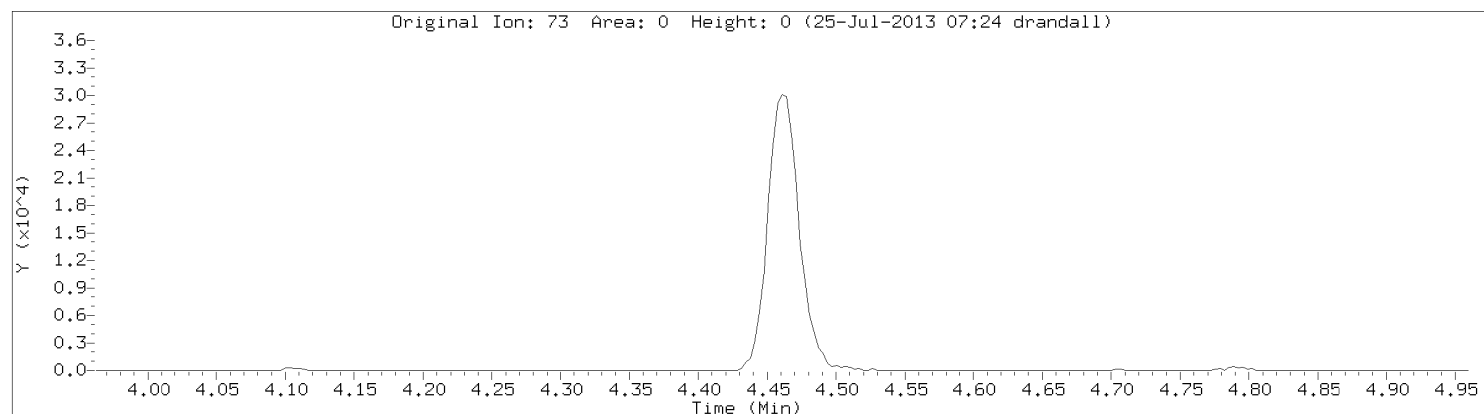


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Lab Sample ID: CAL3



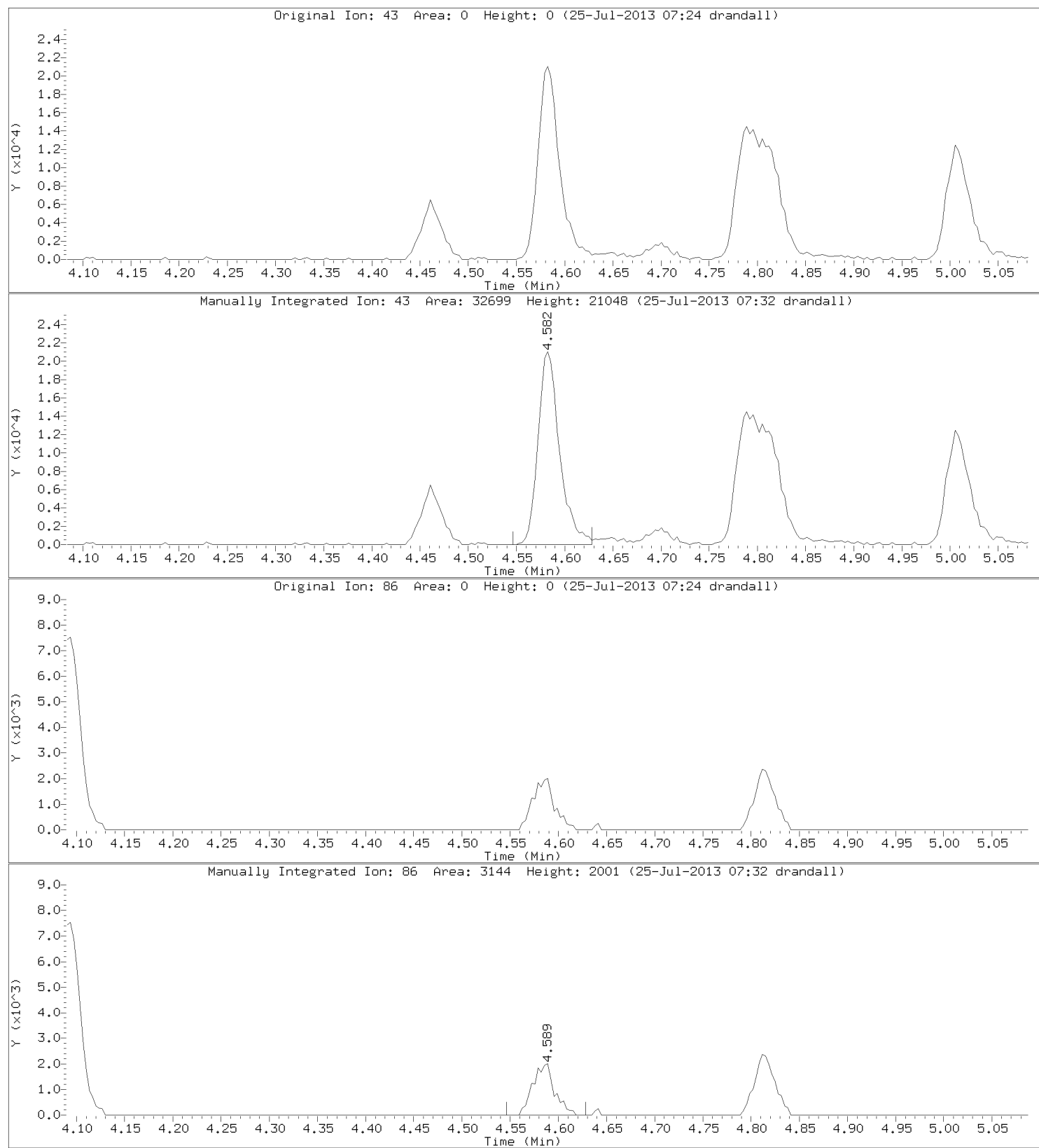
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Instrument: 10airD.i
Lab Sample ID: CAL3

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



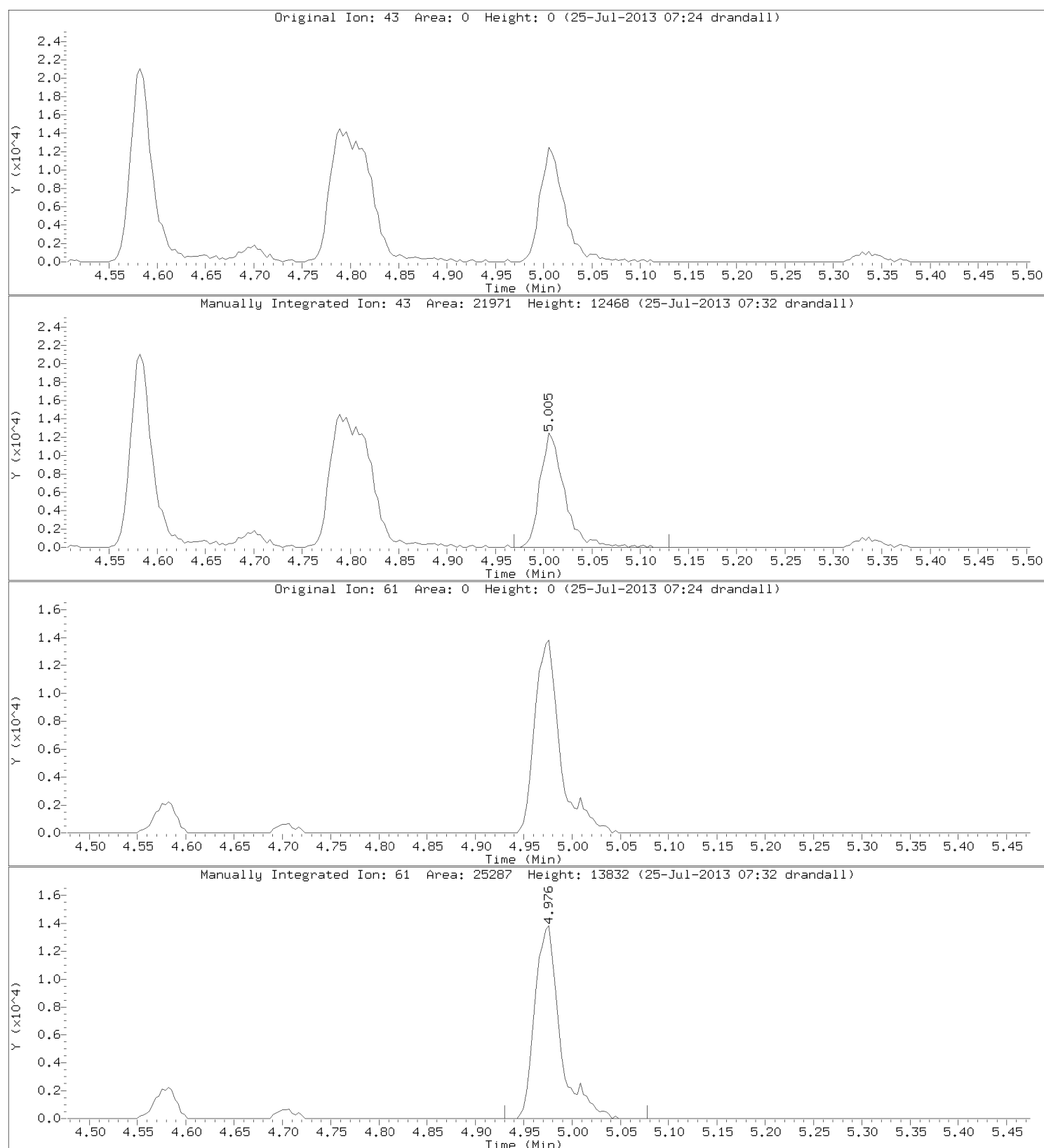
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Instrument: 10airD.i
Lab Sample ID: CAL3

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

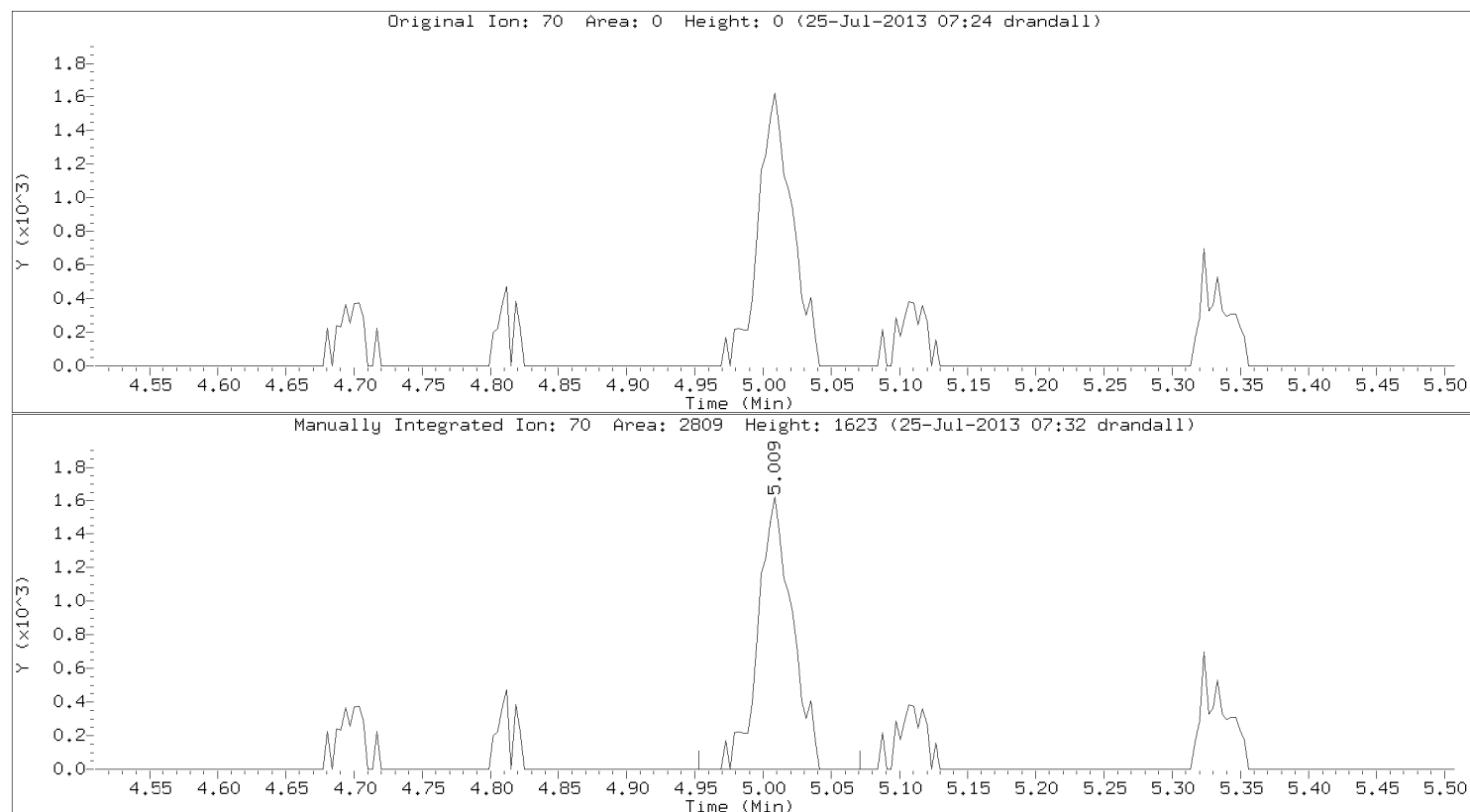


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Instrument: 10airD.i
Lab Sample ID: CAL3

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

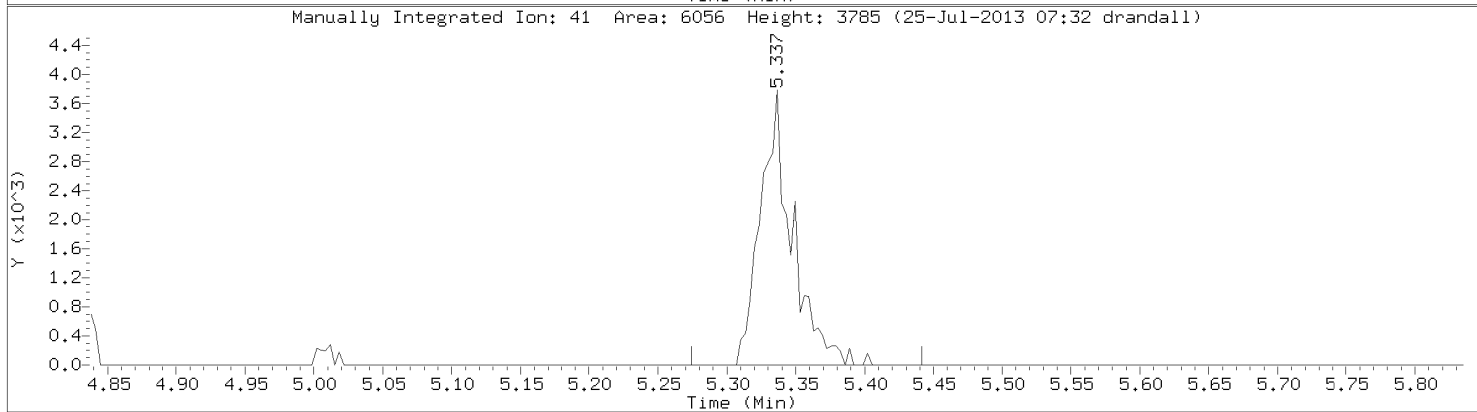
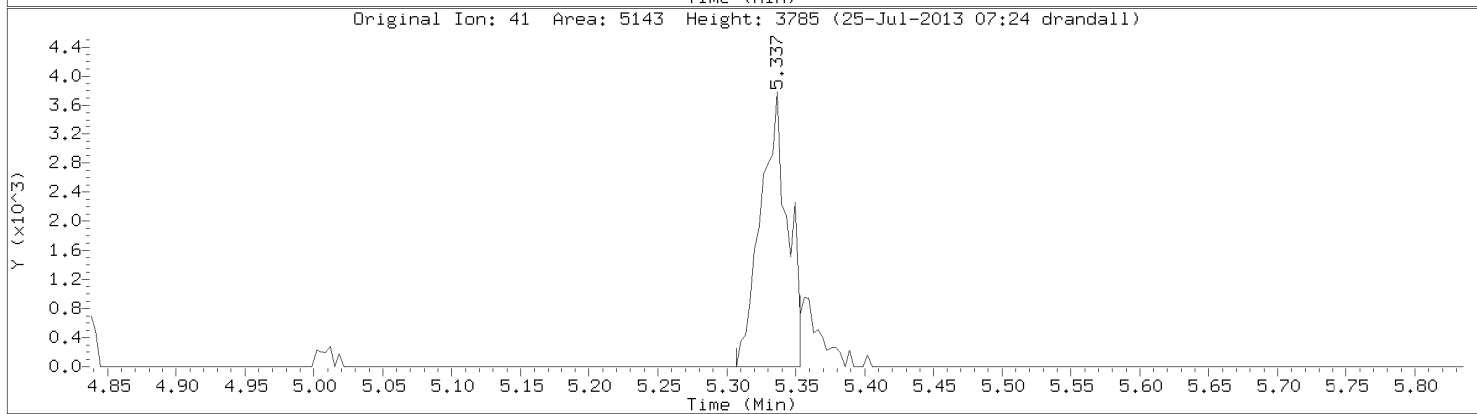
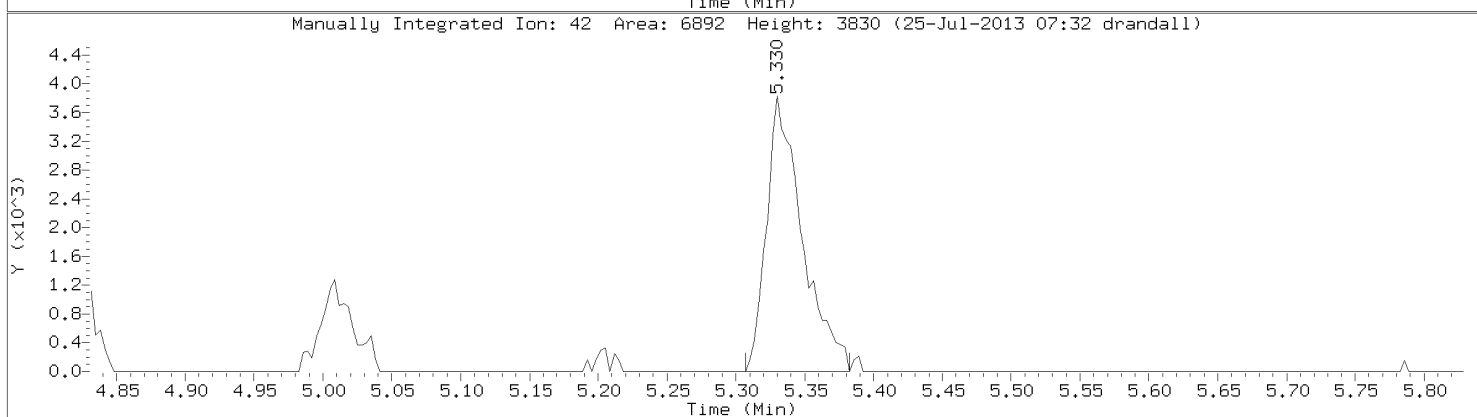
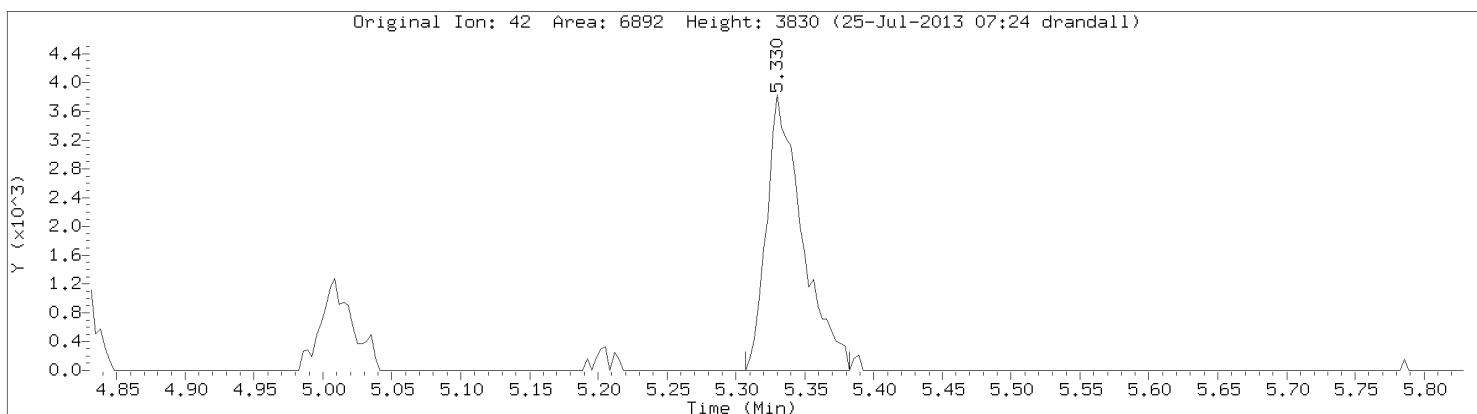


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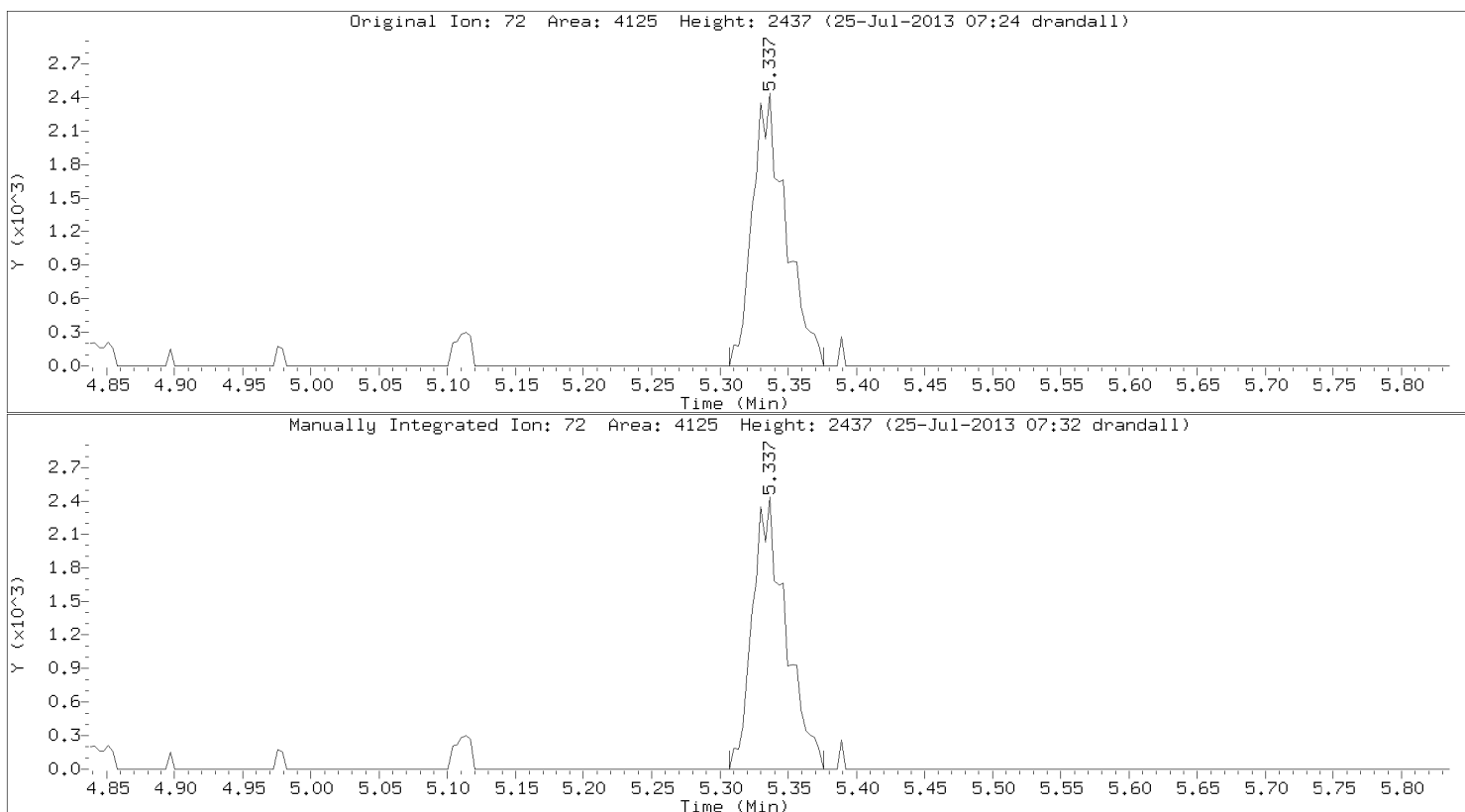


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Instrument: 10airD.i
Lab Sample ID: CAL3

Compound: Tetrahydrofuran
CAS Number: 109-99-9

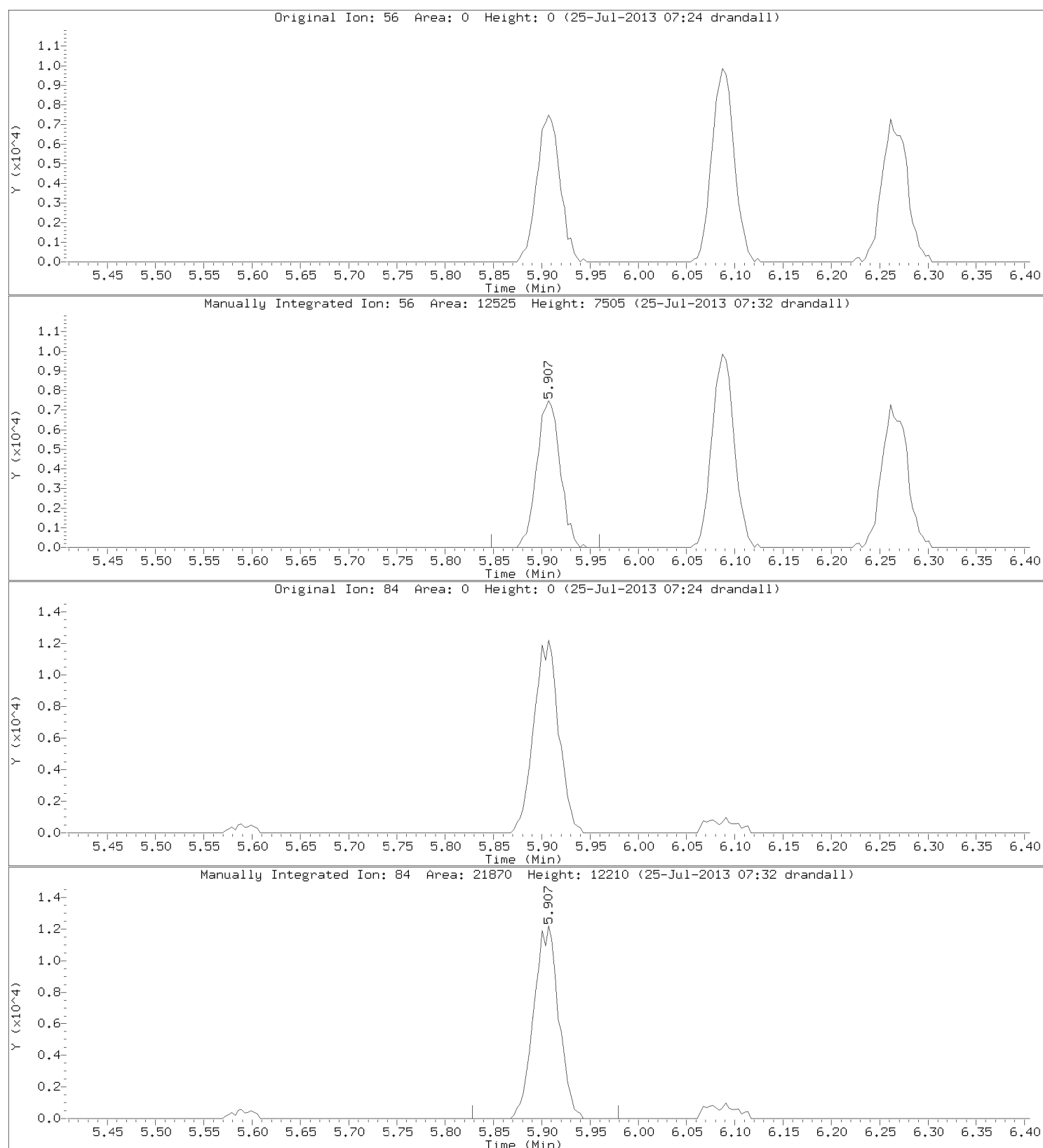


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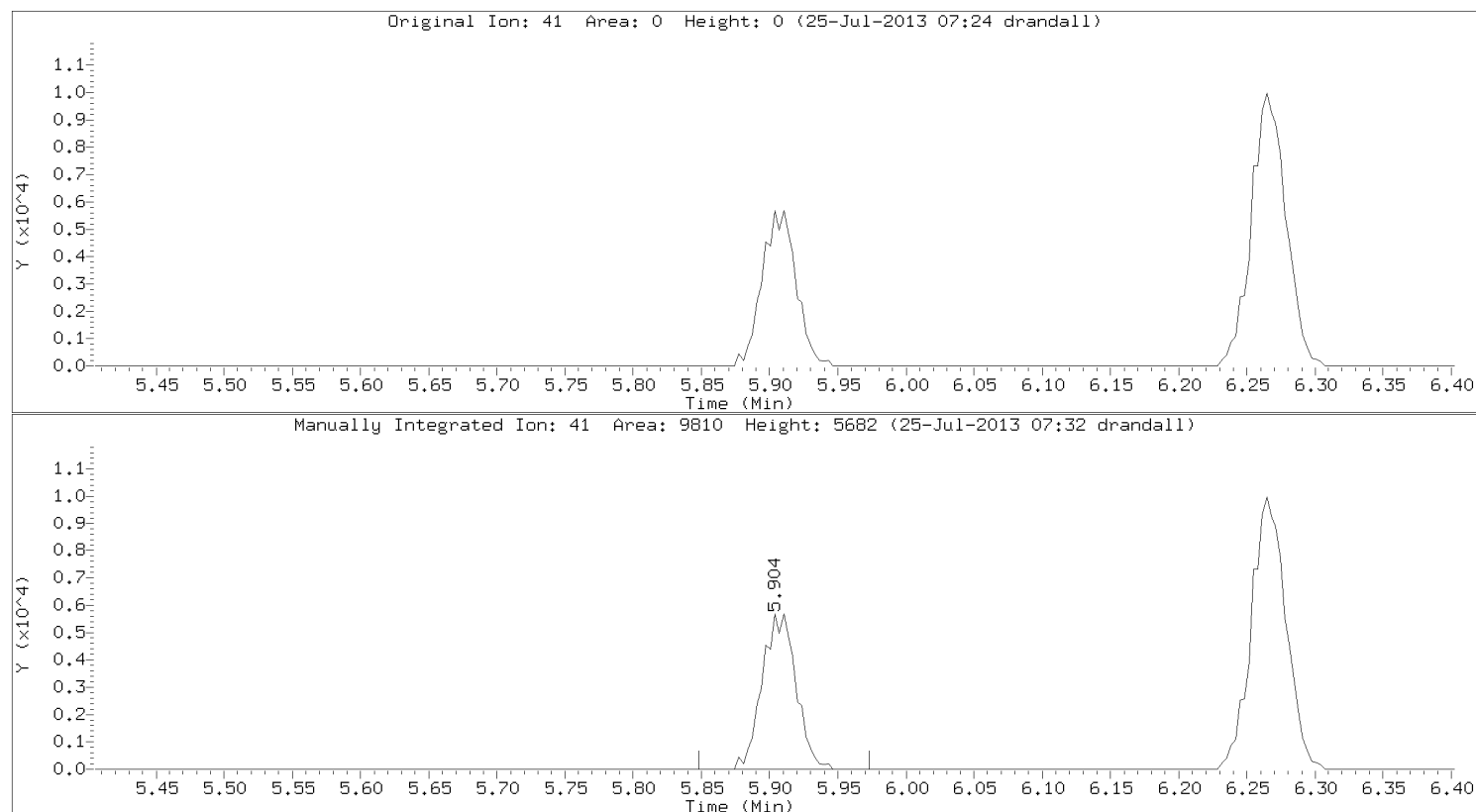


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Injection Date: 24-JUL-2013 15:08
Instrument: 10airD.i
Lab Sample ID: CAL3

Compound: Cyclohexane
CAS Number: 110-82-7

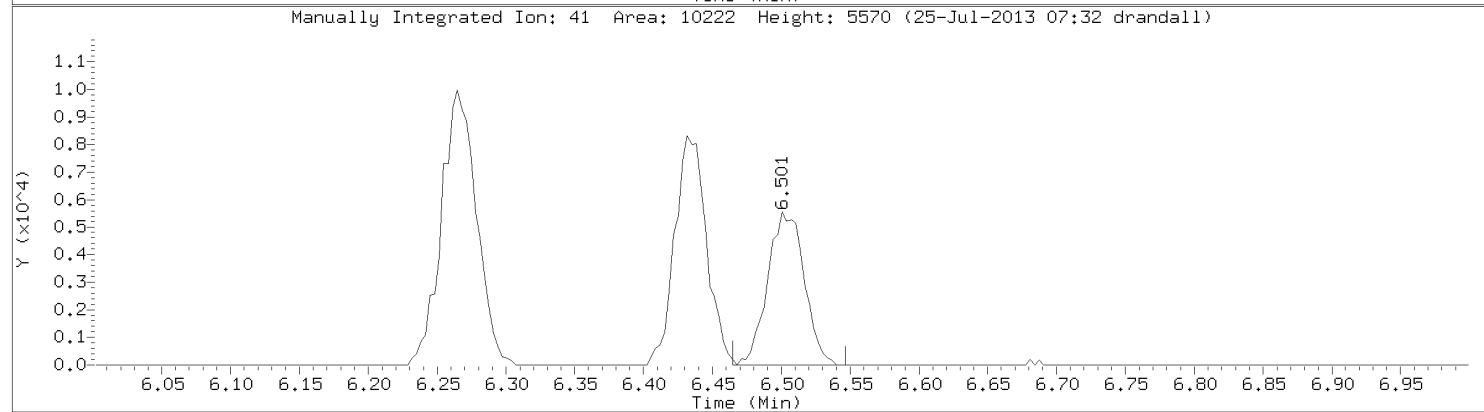
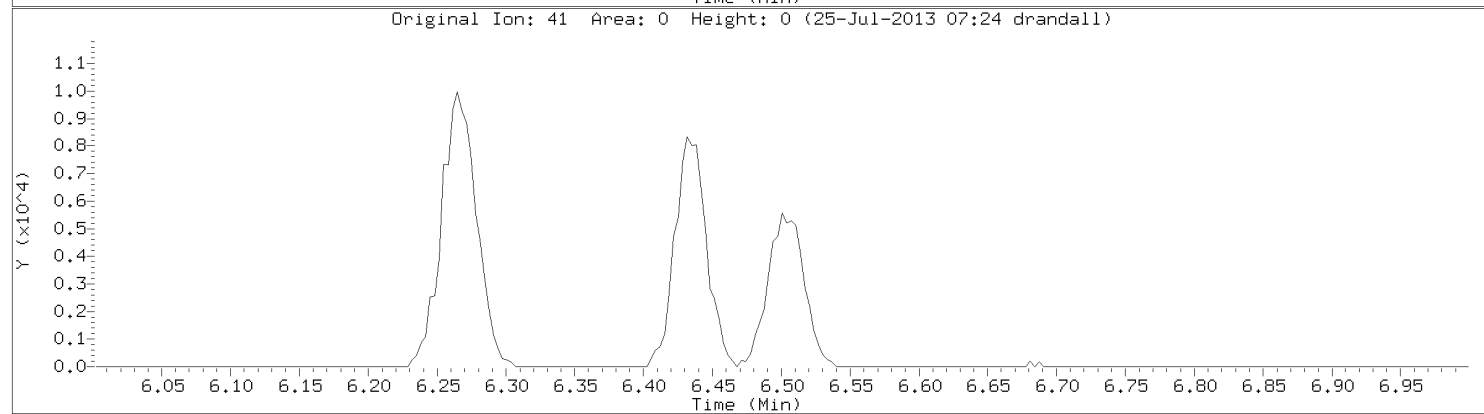
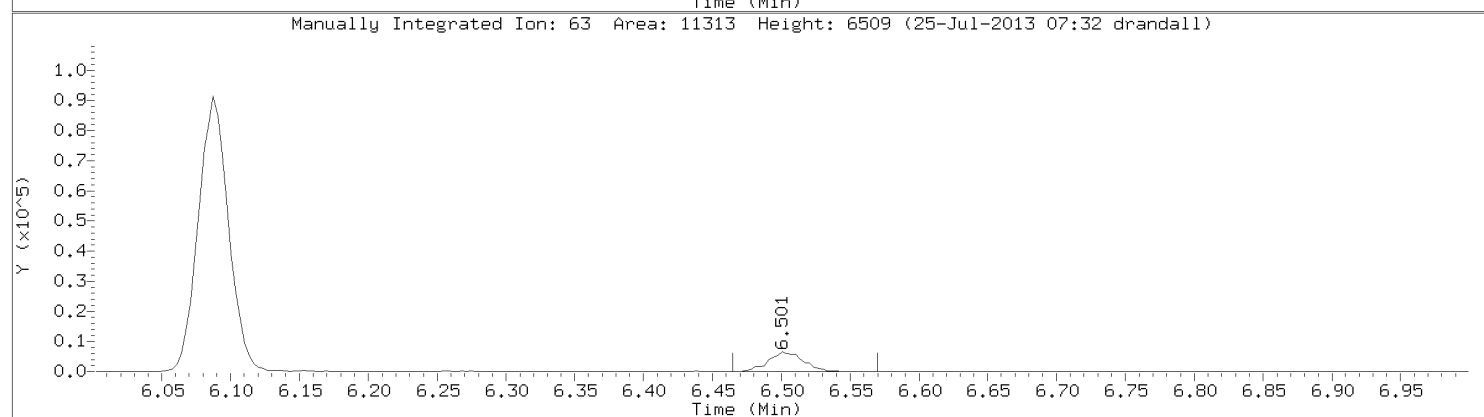
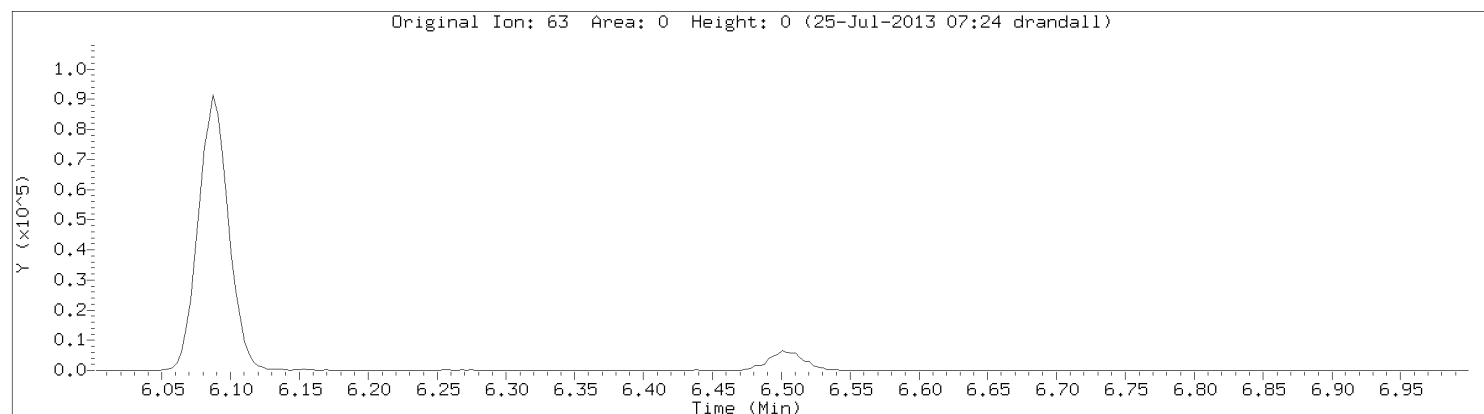


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Lab Sample ID: CAL3

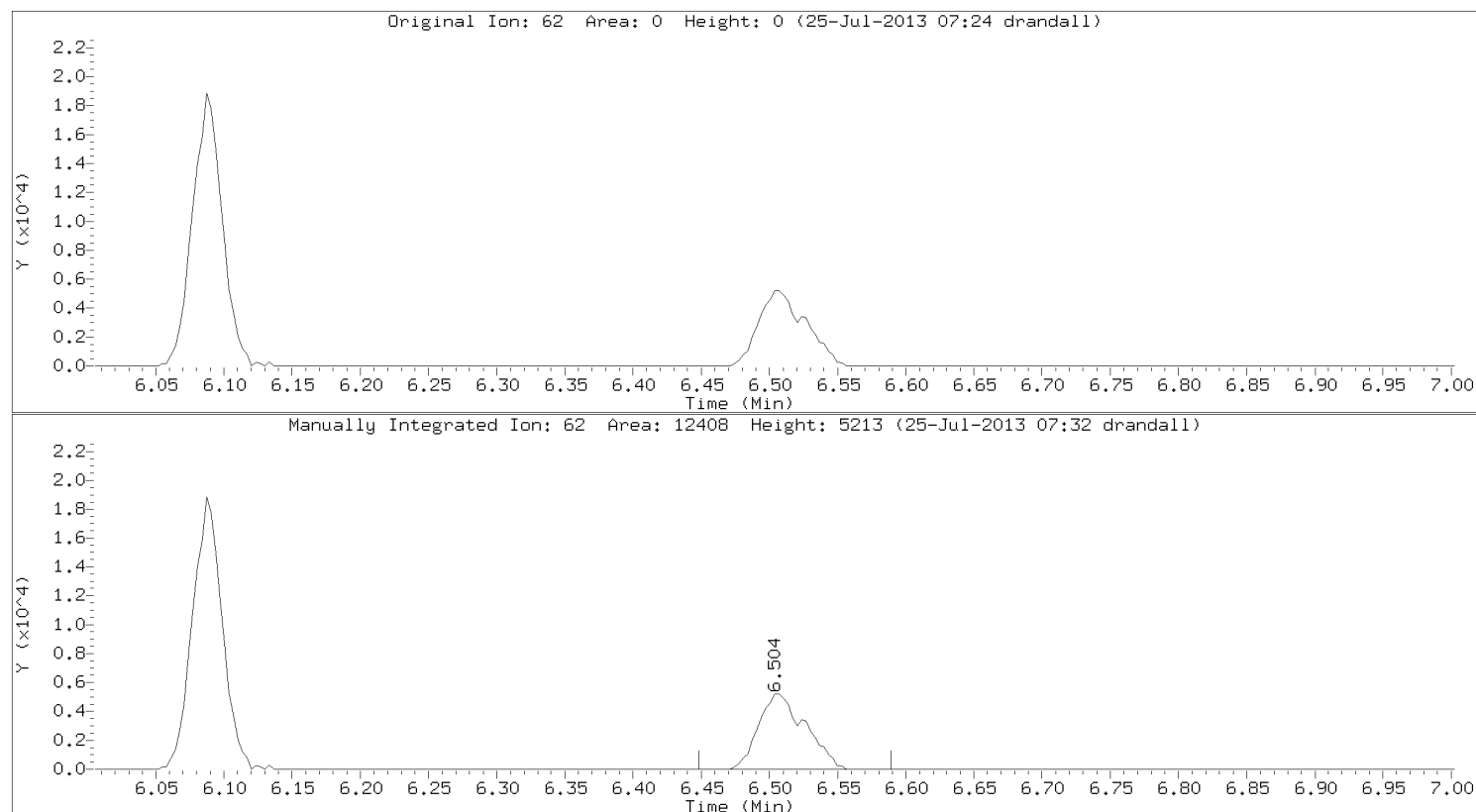


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Injection Date: 24-JUL-2013 15:08
Instrument: 10airD.i
Lab Sample ID: CAL3

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

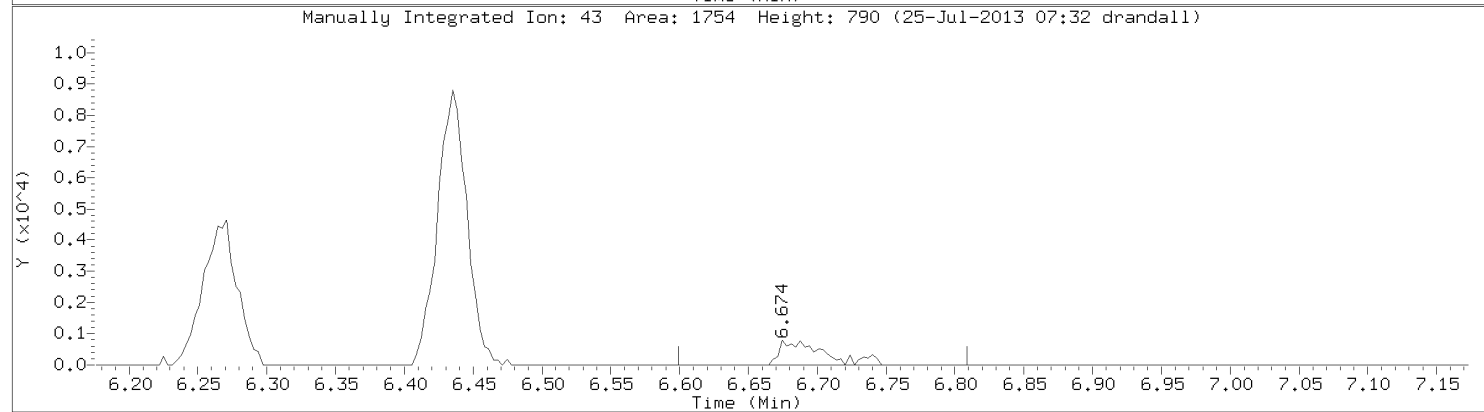
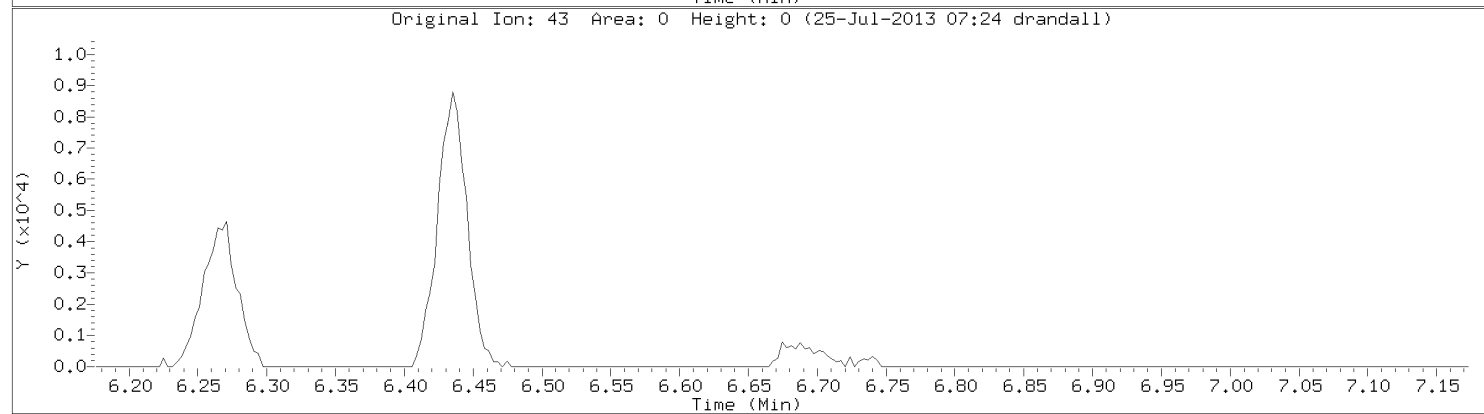
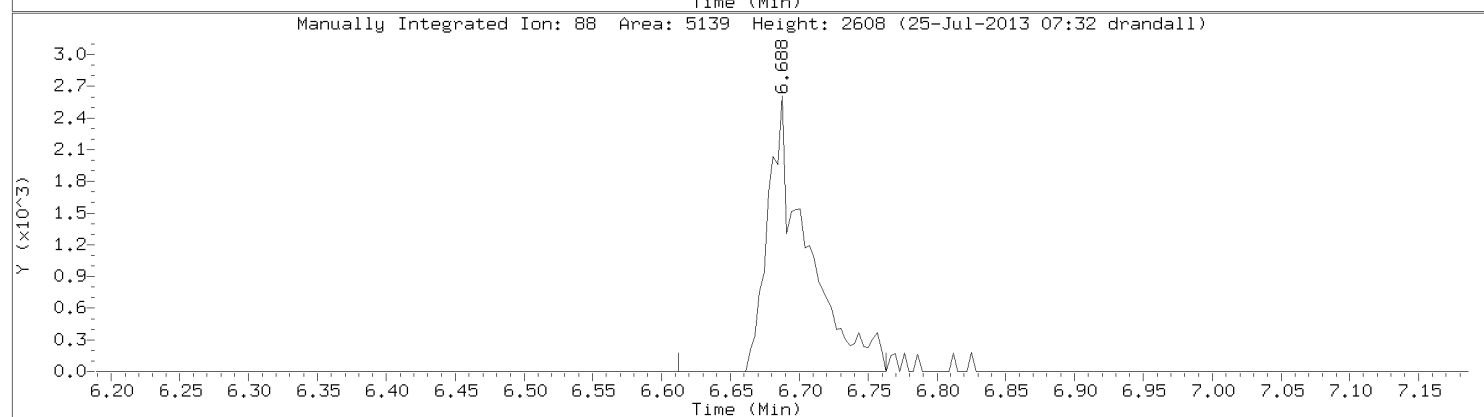
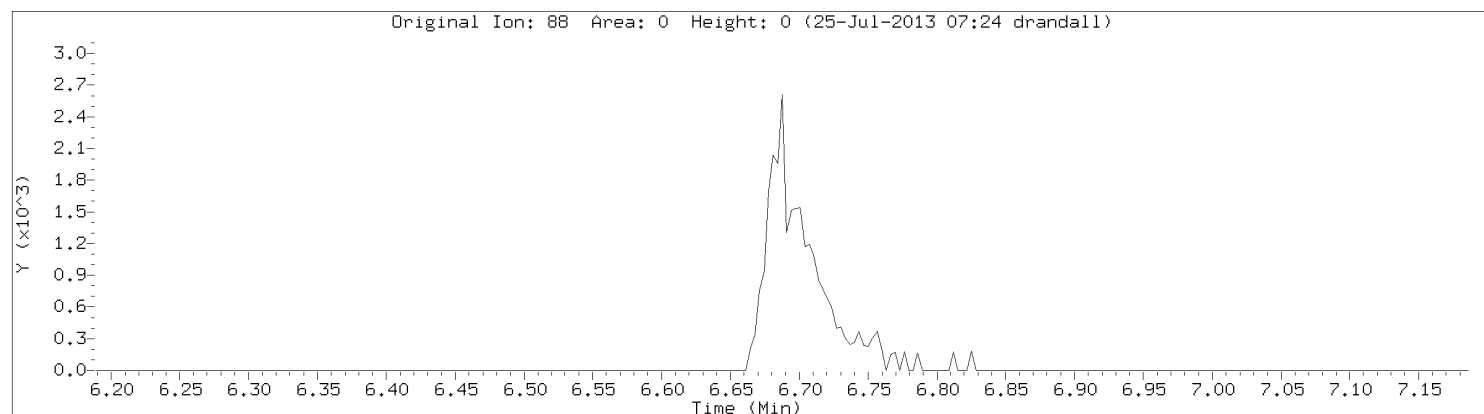


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Lab Sample ID: CAL3



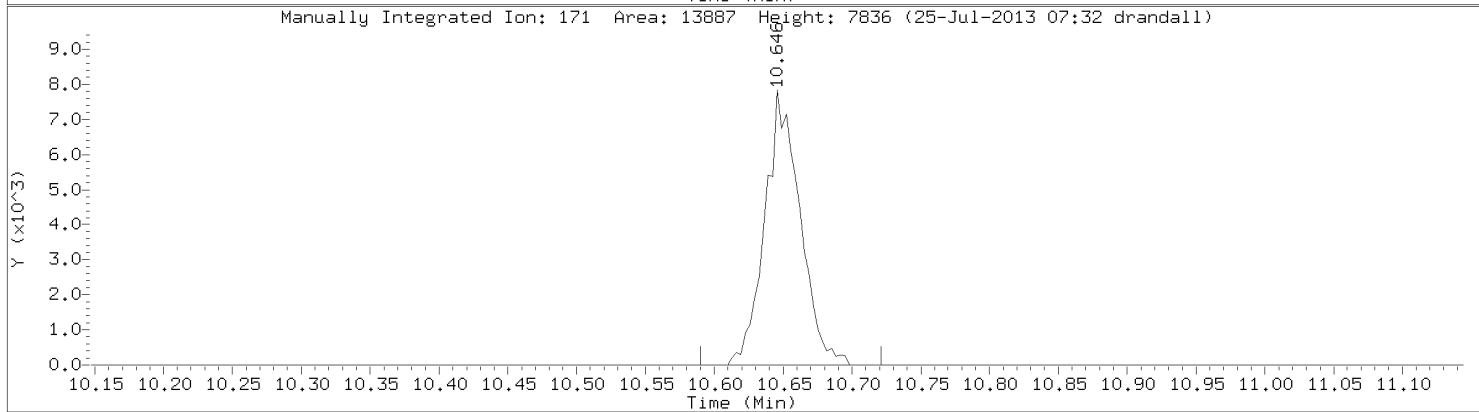
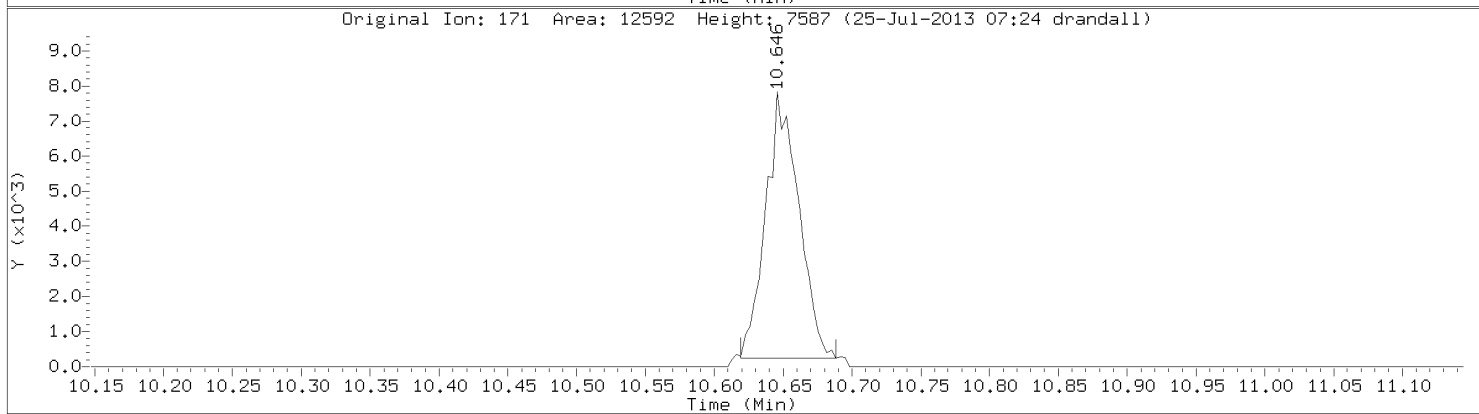
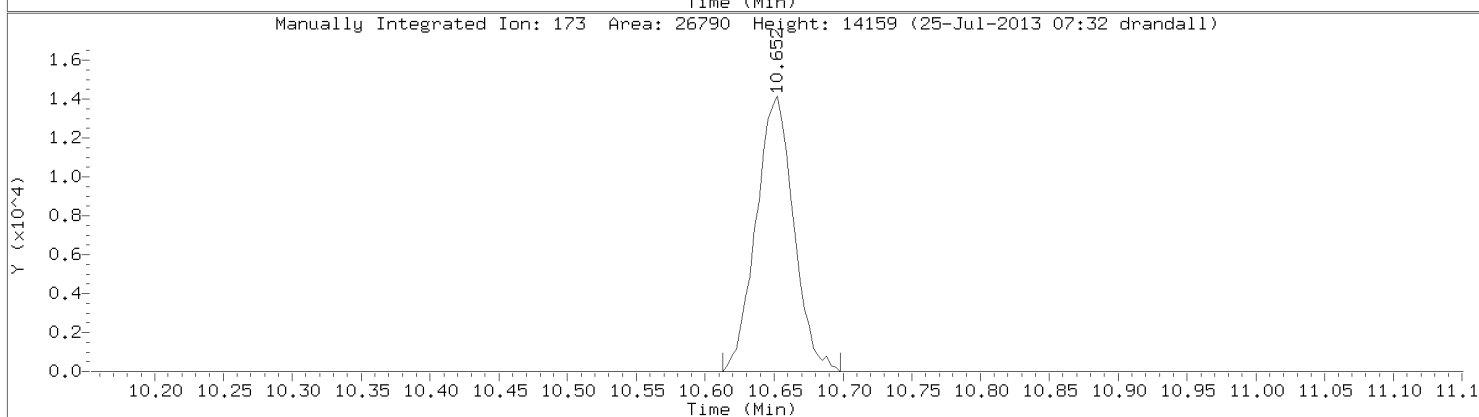
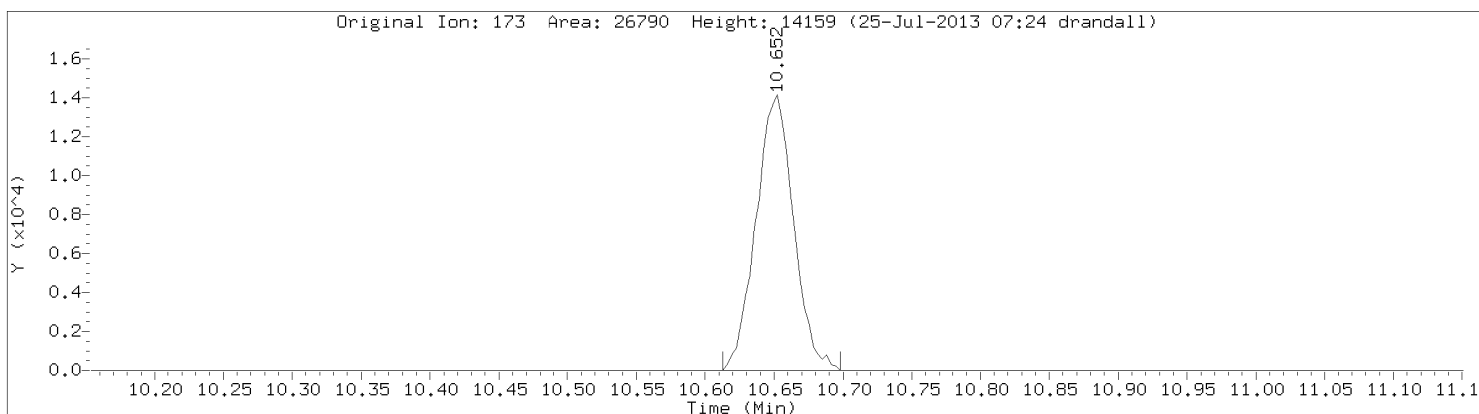
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Instrument: 10airD.i
Lab Sample ID: CAL3

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



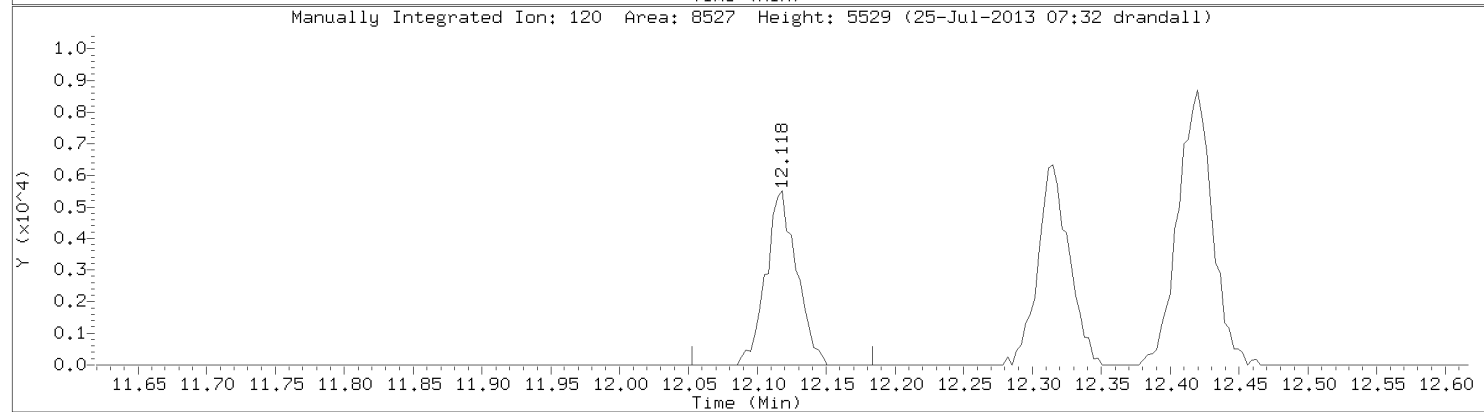
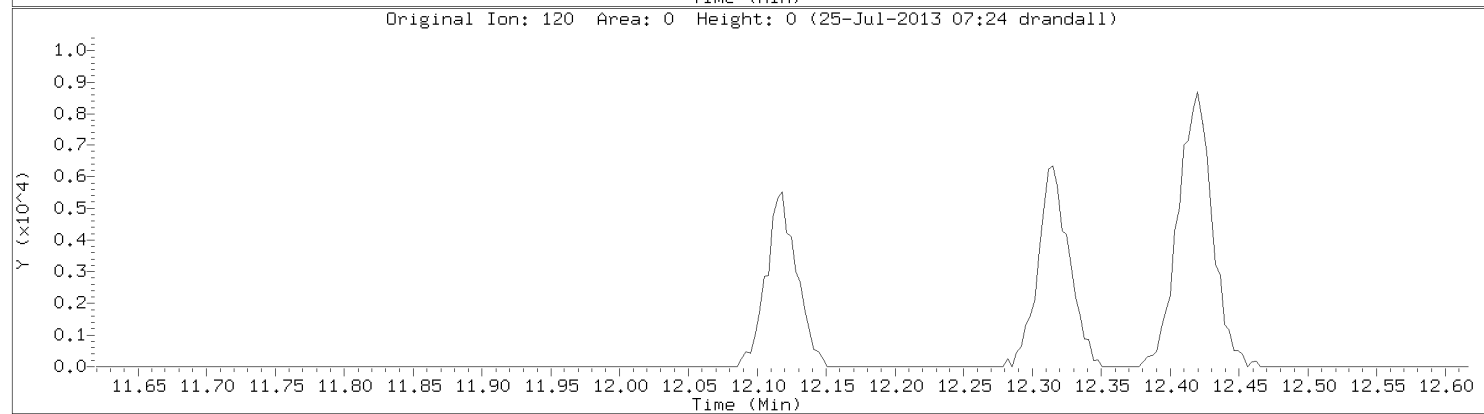
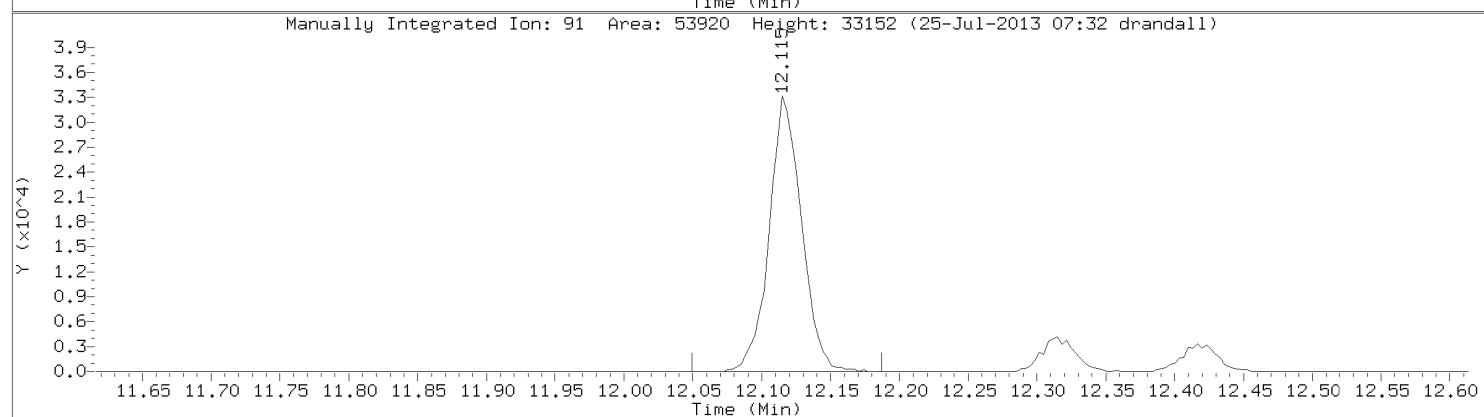
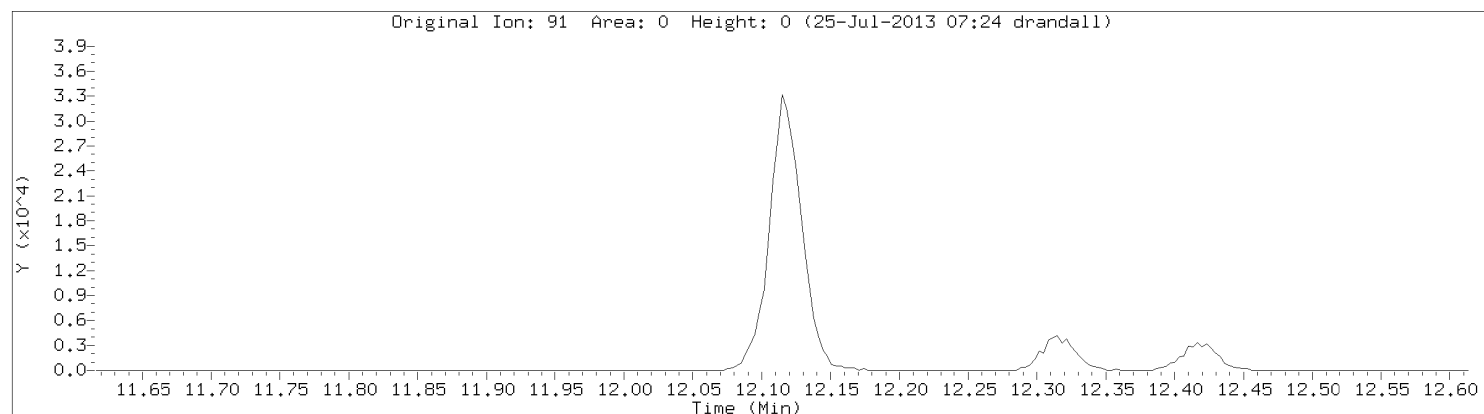
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Injection Date: 24-JUL-2013 15:08
Instrument: 10airD.i
Lab Sample ID: CAL3

Compound: Bromoform
CAS Number: 75-25-2



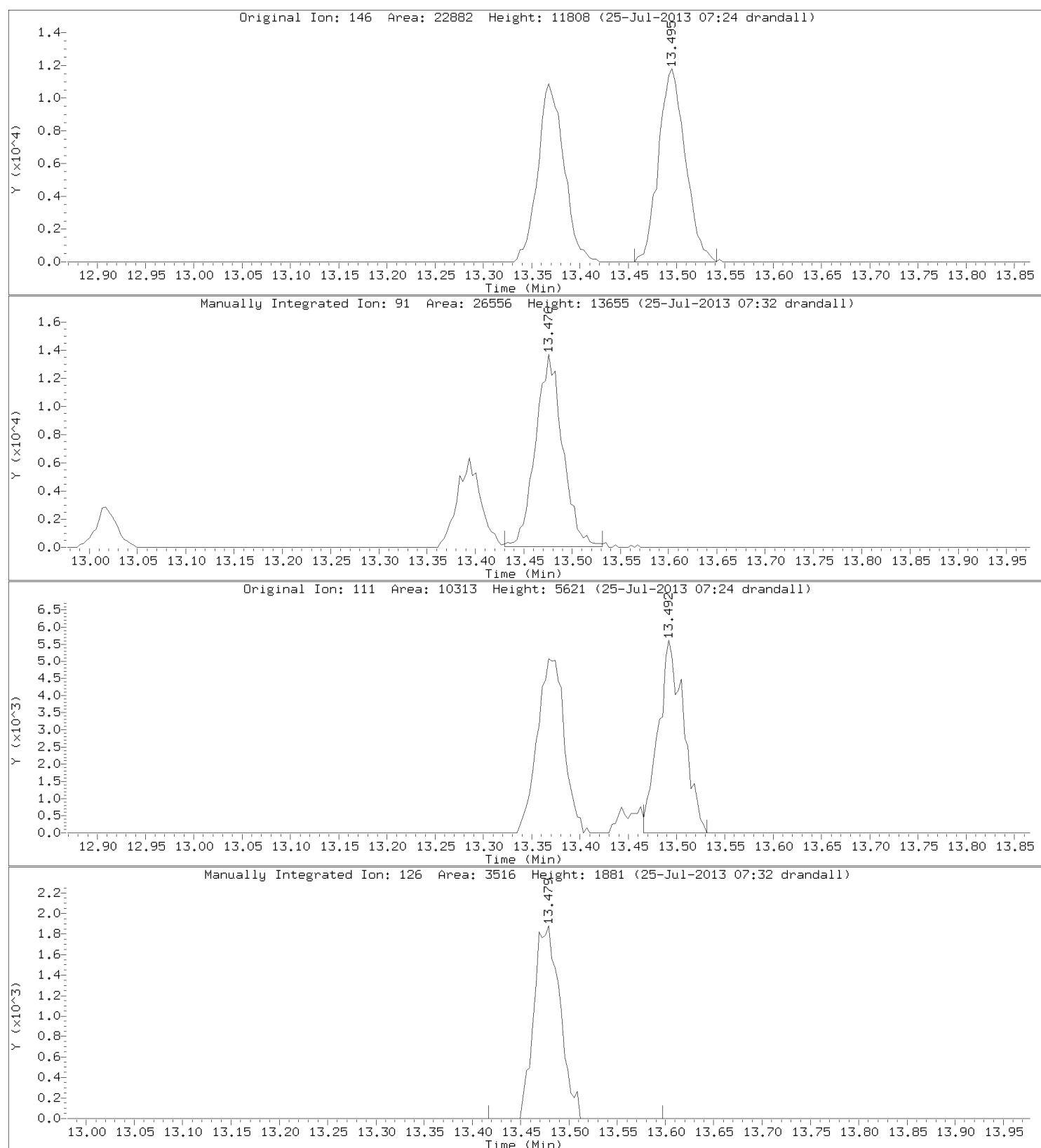
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Injection Date: 24-JUL-2013 15:08
Instrument: 10airD.i
Lab Sample ID: CAL3

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



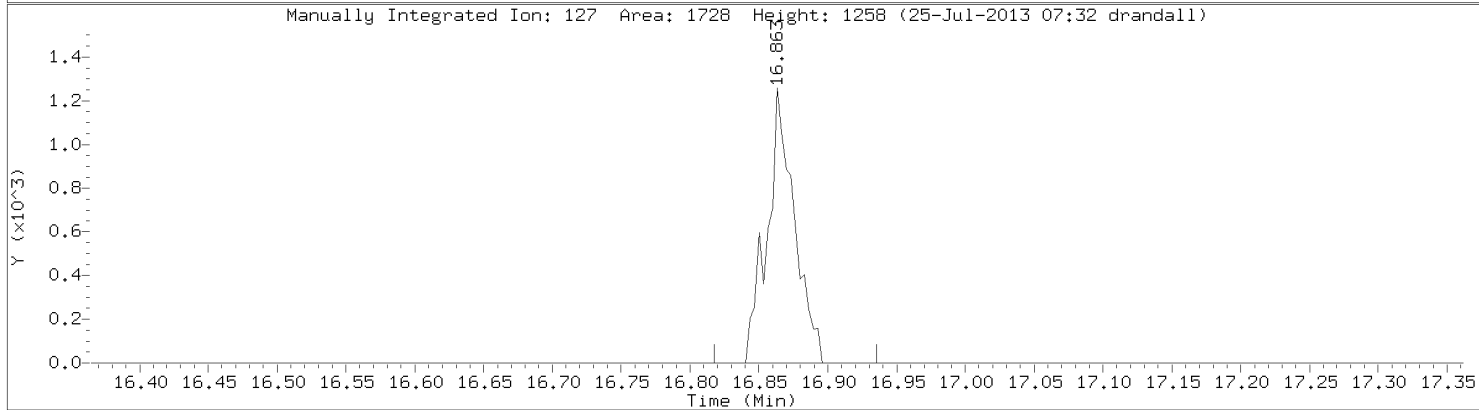
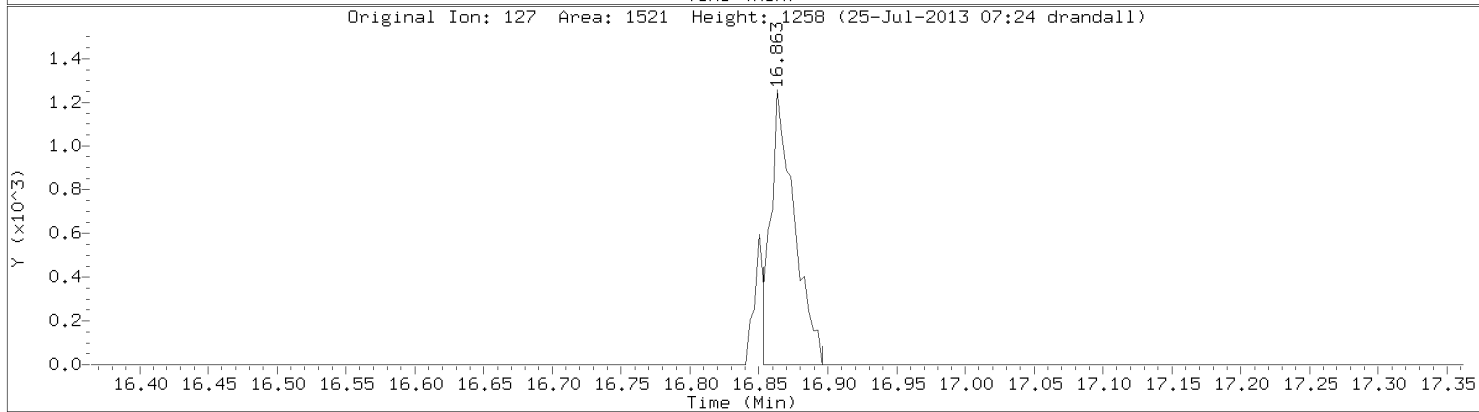
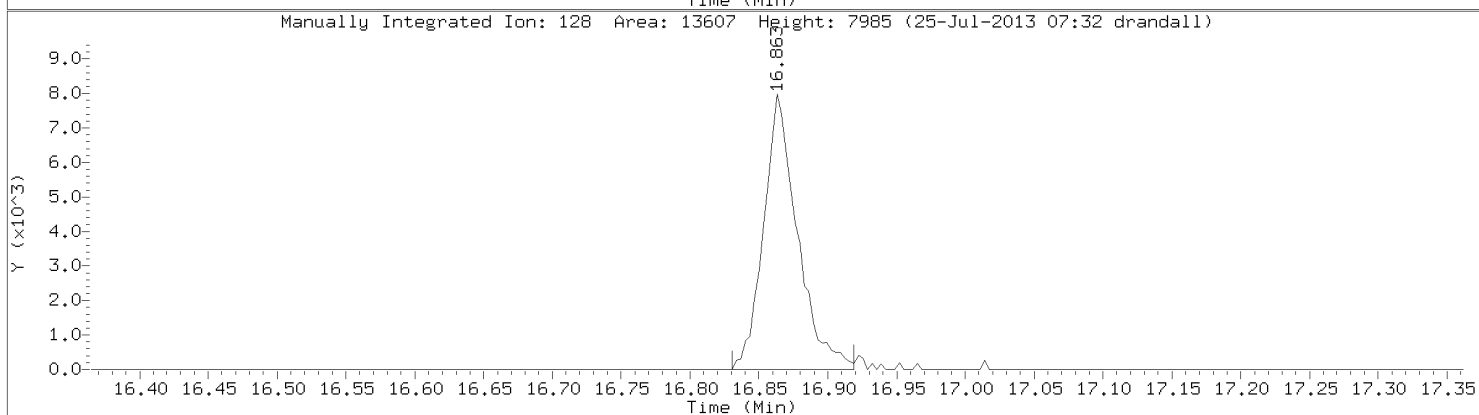
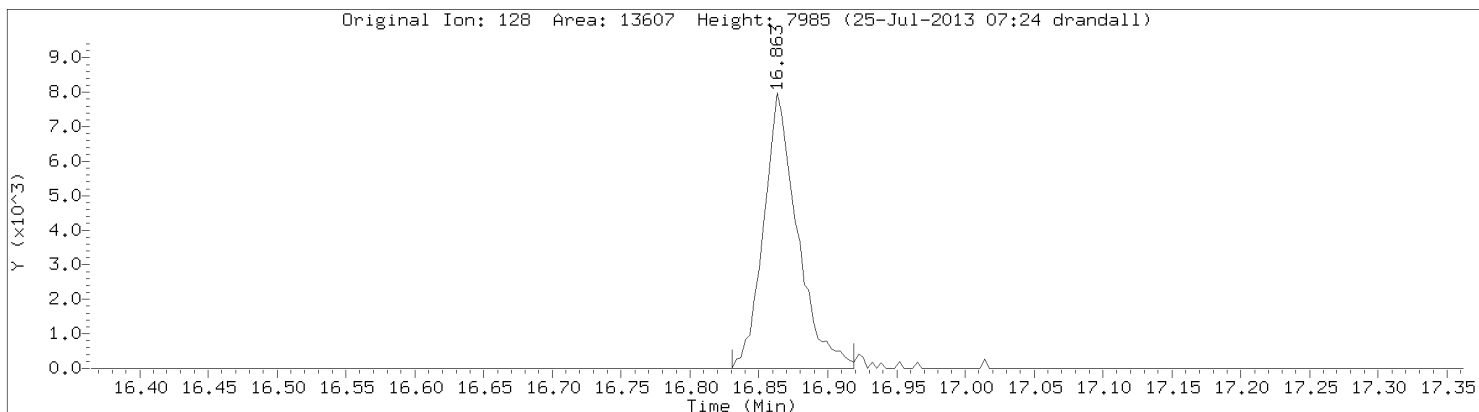
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Injection Date: 24-JUL-2013 15:08
Instrument: 10airD.i
Lab Sample ID: CAL3

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



Data File: \\192.168.10.12\chem\10airD.i\072413.b\20506.d
Injection Date: 24-JUL-2013 15:08
Instrument: 10airD.i
Lab Sample ID: CAL3

Compound: Naphthalene
CAS Number: 91-20-3



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072413.b\20507.d
 Lab Smp Id: CAL4
 Inj Date : 24-JUL-2013 15:36
 Operator : DR1 Inst ID: 10airD.i
 Smp Info :
 Misc Info :
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\072413.b\TO15_205-13.m
 Meth Date : 25-Jul-2013 07:24 drandall Quant Type: ISTD
 Cal Date : 24-JUL-2013 15:36 Cal File: 20507.d
 Als bottle: 7 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10AIRPC4

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	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ppbv)	ON-COL (ppbv)
1 Propylene	41		2.981	2.981	(0.490)	71678	10.0000	10.3
2 Dichlorodifluoromethane	85		3.008	3.008	(0.494)	662001	10.0000	9.39
3 Dichlorotetrafluoroethane	85		3.103	3.103	(0.510)	542211	10.0000	9.57
4 Chloromethane	50		3.106	3.106	(0.510)	153942	10.0000	9.56
5 Vinyl chloride	62		3.191	3.191	(0.524)	152886	10.0000	9.53
6 1,3-Butadiene	54		3.237	3.237	(0.532)	92526	10.0000	9.77
7 Bromomethane	94		3.391	3.391	(0.557)	188679	10.0000	9.34
8 Chloroethane	64		3.447	3.447	(0.566)	76204	10.0000	9.11 (M)
9 Ethanol	31		3.500	3.500	(0.575)	76446	10.0000	7.89
10 Vinyl Bromide	106		3.585	3.585	(0.589)	190876	10.0000	9.55
11 Acrolein	56		3.683	3.683	(0.605)	54068	10.0000	11.3
12 Trichlorofluoromethane	101		3.693	3.693	(0.606)	730906	10.0000	9.53
13 Acetone	43		3.729	3.729	(0.612)	327086	10.0000	8.51
14 Isopropyl Alcohol	45		3.752	3.752	(0.616)	246446	10.0000	9.78
15 1,1-Dichloroethene	61		3.975	3.975	(0.653)	336052	10.0000	9.85
16 Acrylonitrile	53		3.985	3.985	(0.654)	115367	10.0000	11.1
17 Tert Butyl Alcohol	59		3.982	3.982	(0.654)	380914	10.0000	9.06 (M)
18 Freon 113	101		4.031	4.031	(0.662)	489374	10.0000	9.56
19 Methylene chloride	49		4.090	4.090	(0.672)	203294	10.0000	8.37
20 Allyl Chloride	76		4.106	4.106	(0.674)	86149	10.0000	10.5
21 Carbon Disulfide	76		4.224	4.224	(0.694)	596896	10.0000	9.42
22 trans-1,2-dichloroethene	96		4.421	4.421	(0.726)	220067	10.0000	10.0
23 Methyl Tert Butyl Ether	73		4.457	4.457	(0.732)	554709	10.0000	10.5 (M)

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
24 Vinyl Acetate	43		4.575	4.575	(0.751)	416883	10.0000	11.2	
25 1,1-Dichloroethane	63		4.582	4.582	(0.752)	379360	10.0000	9.97	
\$ 26 Hexane-d14 (S)	66		4.697	4.697	(0.771)	279944	10.0000	10.0	
27 Methyl Ethyl Ketone	72		4.775	4.775	(0.784)	96344	10.0000	10.9	
28 n-Hexane	57		4.815	4.815	(0.791)	251379	10.0000	9.61 (M)	
29 cis-1,2-Dichloroethene	96		4.975	4.975	(0.817)	190331	10.0000	10.5	
30 Ethyl Acetate	43		4.998	4.998	(0.821)	272944	10.0000	12.0 (M)	
31 Chloroform	83		5.116	5.116	(0.840)	475236	10.0000	10.0	
32 Tetrahydrofuran	42		5.313	5.313	(0.872)	108934	10.0000	12.9	
33 1,1,1-Trichloroethane	97		5.595	5.595	(0.919)	534598	10.0000	10.5	
34 1,2-Dichloroethane	62		5.611	5.611	(0.921)	372025	10.0000	10.6	
35 Benzene	78		5.884	5.884	(0.966)	484923	10.0000	11.0	
36 Carbon tetrachloride	117		5.903	5.903	(0.969)	585564	10.0000	10.7	
37 Cyclohexane	56		5.907	5.907	(0.970)	178983	10.0000	11.6	
* 38 1,4-Difluorobenzene	114		6.090	6.090	(1.000)	579775	10.0000		
39 2,2,4-Trimethylpentane	57		6.267	6.267	(1.029)	560310	10.0000	11.4	
40 Heptane	43		6.438	6.438	(1.057)	180631	10.0000	12.0	
41 1,2-Dichloropropane	63		6.507	6.507	(1.068)	146979	10.0000	11.8 (M)	
42 Trichloroethene	130		6.530	6.530	(1.072)	189383	10.0000	11.0	
43 1,4-Dioxane	88		6.651	6.651	(1.092)	88039	10.0000	21.2 (M)	
44 Bromodichloromethane	83		6.651	6.651	(1.092)	537547	10.0000	11.0	
45 Methyl Isobutyl Ketone	43		7.225	7.225	(1.186)	268956	10.0000	12.6	
46 cis-1,3-Dichloropropene	75		7.277	7.277	(1.195)	281800	10.0000	12.2	
47 trans-1,3-Dichloropropene	75		7.769	7.769	(1.276)	319593	10.0000	13.2	
\$ 48 Toluene-d8 (S)	98		7.845	7.845	(1.288)	423180	10.0000	10.4	
49 Toluene	91		7.937	7.937	(1.303)	624331	10.0000	11.4	
50 1,1,2-Trichloroethane	97		7.946	7.946	(1.305)	218875	10.0000	11.0	
51 Methyl Butyl Ketone	43		8.241	8.241	(0.851)	268647	10.0000	13.2	
52 Dibromochloromethane	129		8.556	8.556	(0.883)	413209	10.0000	11.0	
53 1,2-Dibromoethane	107		8.822	8.822	(0.911)	341622	10.0000	11.0	
54 Tetrachloroethene	166		8.914	8.914	(0.920)	309066	10.0000	10.8	
* 55 Chlorobenzene - d5	117		9.688	9.688	(1.000)	221404	10.0000		
56 Chlorobenzene	112		9.737	9.737	(1.005)	407316	10.0000	10.2	
57 Ethyl Benzene	91		10.039	10.039	(1.036)	804065	10.0000	12.6	
58 m&p-Xylene	91		10.209	10.209	(1.054)	647710	10.0000	12.7	
59 Bromoform	173		10.652	10.652	(1.100)	435698	10.0000	11.2	
60 Styrene	104		10.701	10.701	(1.105)	412859	10.0000	13.5	
61 o-Xylene	91		10.780	10.780	(1.113)	687174	10.0000	12.7	
62 1,1,2,2-Tetrachloroethane	83		11.091	11.091	(1.145)	391648	10.0000	10.6	
63 Isopropylbenzene	105		11.455	11.455	(1.182)	851143	10.0000	11.3	
64 N-Propylbenzene	91		12.114	12.114	(1.250)	1024653	10.0000	16.5 (M)	
65 4-Ethyltoluene	105		12.314	12.314	(1.271)	781913	10.0000	13.3	
66 1,3,5-Trimethylbenzene	105		12.419	12.419	(1.282)	697148	10.0000	13.0	
67 1,2,4-Trimethylbenzene	105		13.016	13.016	(1.344)	656662	10.0000	14.0	
68 1,3-Dichlorobenzene	146		13.367	13.367	(1.380)	395622	10.0000	12.2	
69 Sec- Butylbenzene	105		13.393	13.393	(1.382)	931653	10.0000	13.4	
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.452	13.452	(1.389)	93604	10.0000	9.65	
71 Benzyl Chloride	91		13.475	13.475	(1.391)	569442	10.0000	12.5	
72 1,4-Dichlorobenzene	146		13.498	13.498	(1.393)	384440	10.0000	10.9	
73 1,2-Dichlorobenzene	146		14.036	14.036	(1.449)	330351	10.0000	12.1	
74 N-Butylbenzene	91		14.321	14.321	(1.478)	720417	10.0000	13.7	
75 1,2,4-Trichlorobenzene	180		16.679	16.679	(1.722)	208176	10.0000	11.4	
76 Naphthalene	128		16.859	16.859	(1.740)	319830	10.0000	12.7	
77 Hexachlorobutadiene	225		17.233	17.233	(1.779)	239804	10.0000	9.79	

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Report Date: 25-Jul-2013 07:33

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\072413.b\20507.d
Report Date: 25-Jul-2013 07:33

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 20507.d
Lab Smp Id: CAL4
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\072413.b\TO15_205-13.m
Misc Info:

Calibration Date: 24-JUL-2013
Calibration Time: 15:36

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	579775	0.00
55 Chlorobenzene - d	221404	132842	309966	221404	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	0.00
55 Chlorobenzene - d	9.69	9.36	10.02	9.69	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\072413.b\20507.D

Date : 24-JUL-2013 15:36

Client ID:

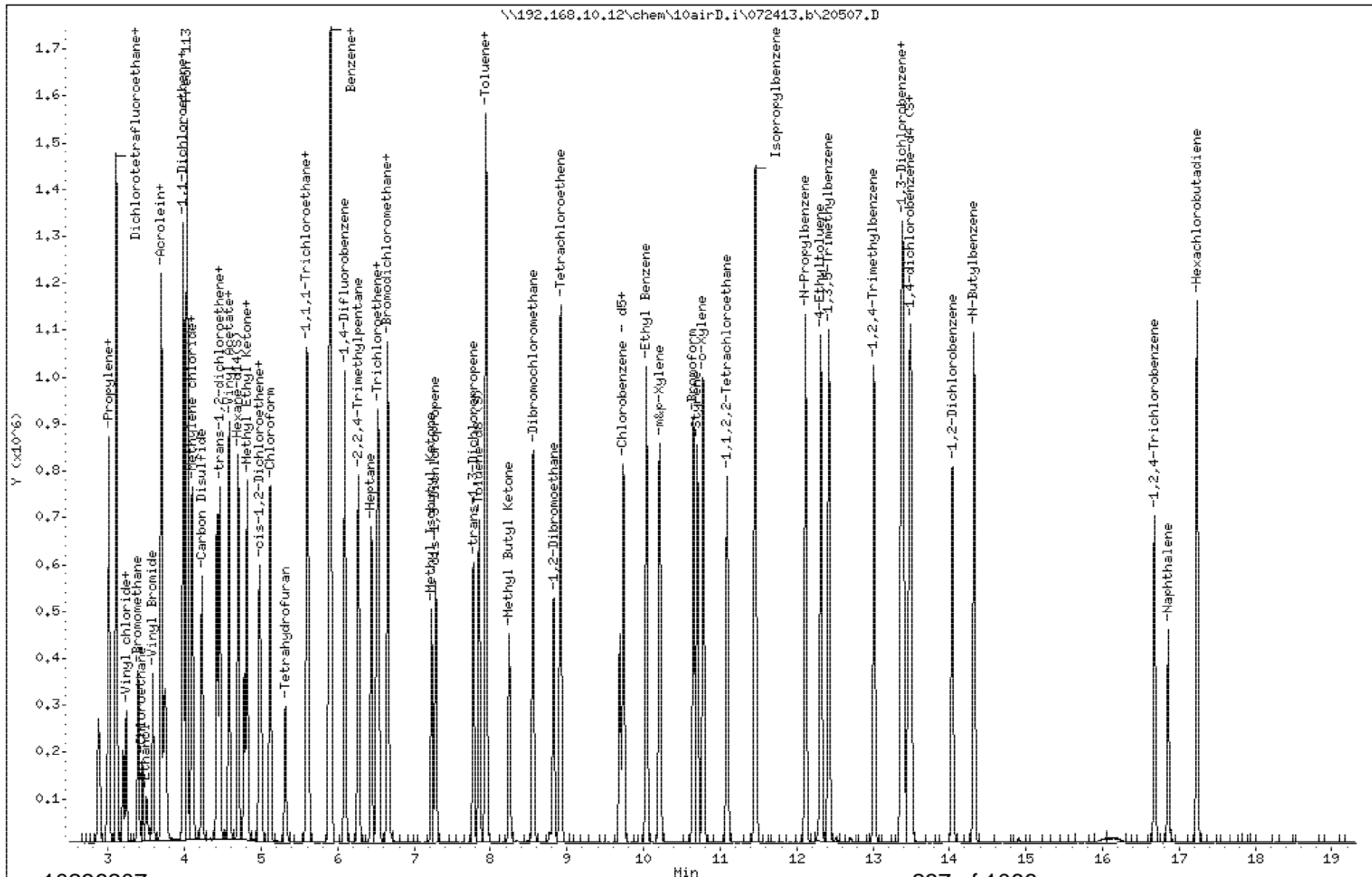
Instrument: 10airD.i

Sample Info:

Operator: DR1

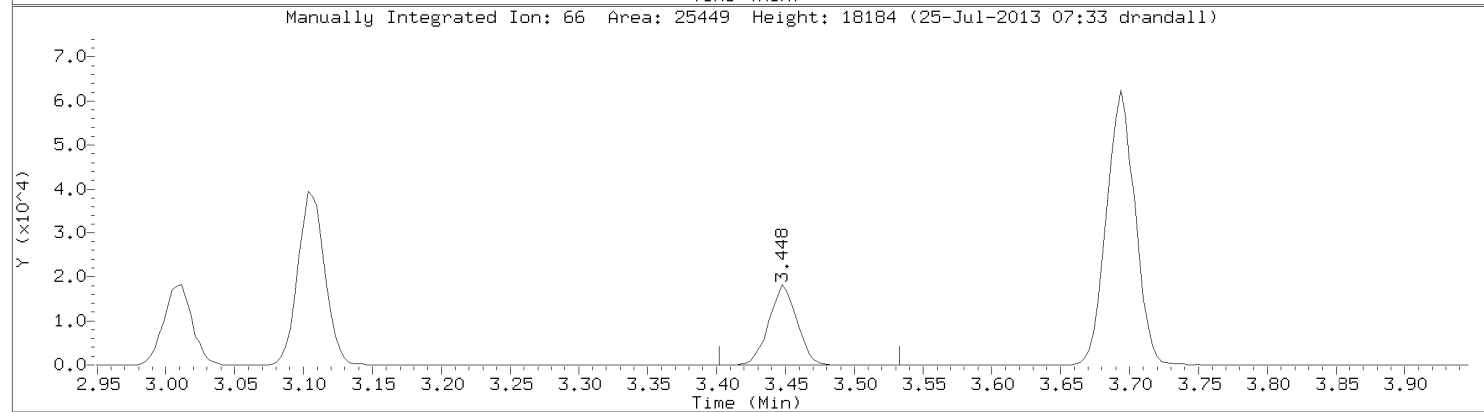
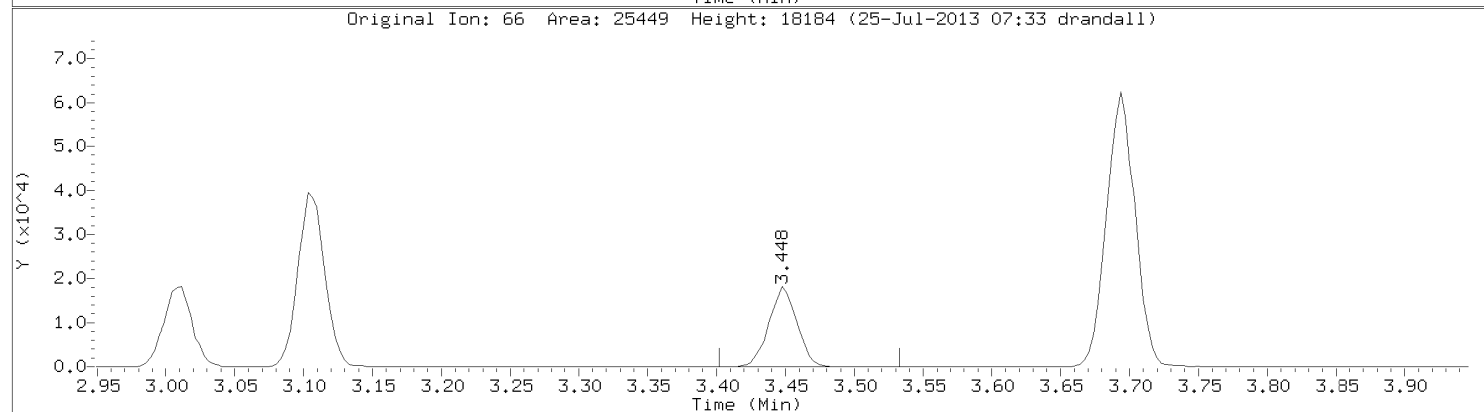
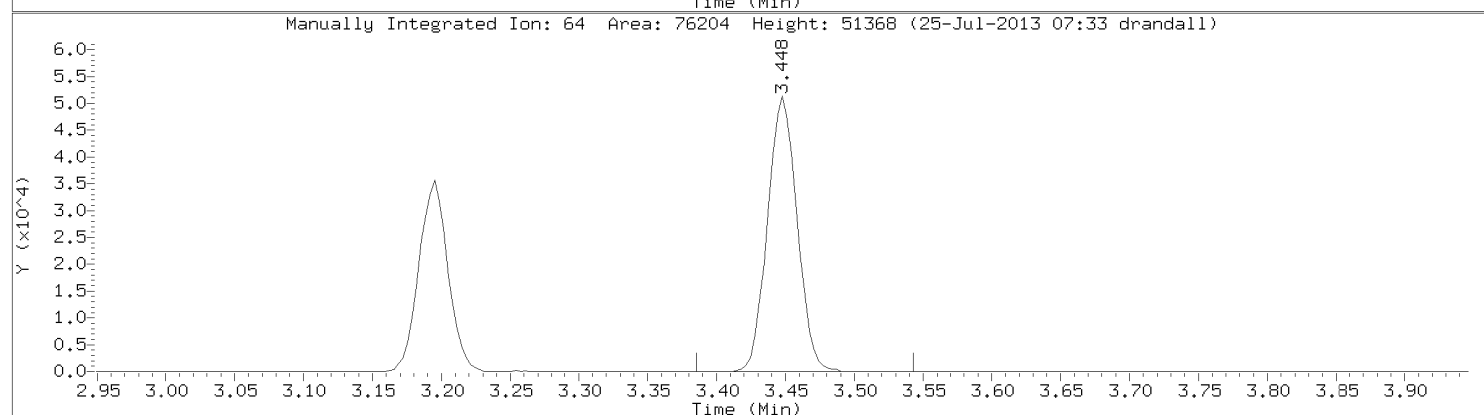
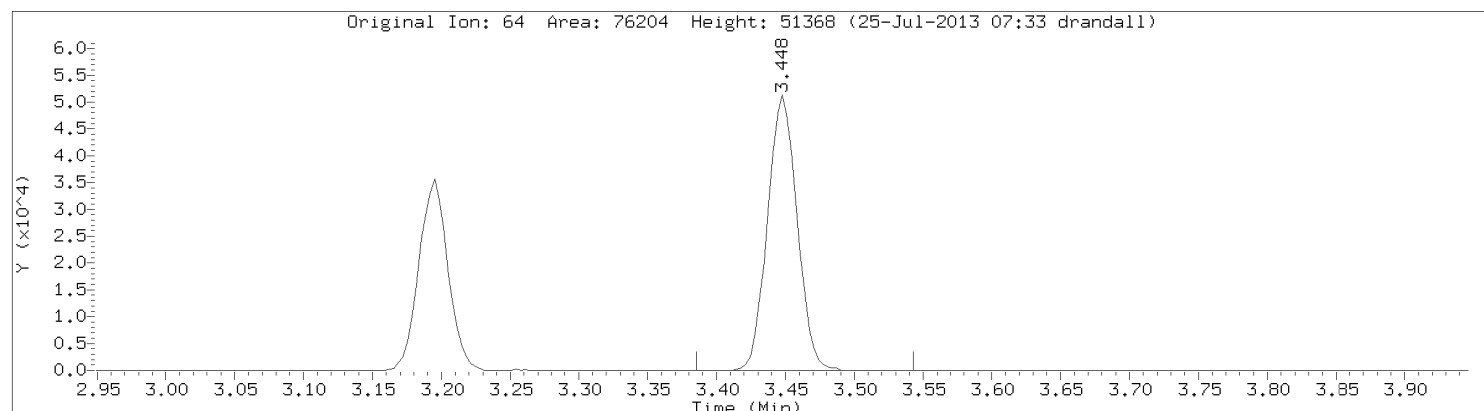
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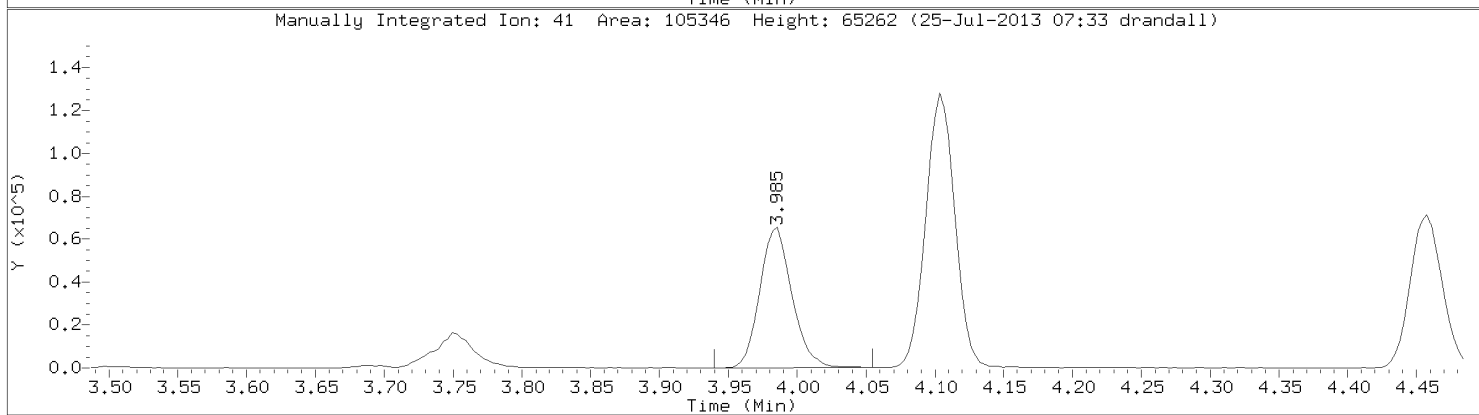
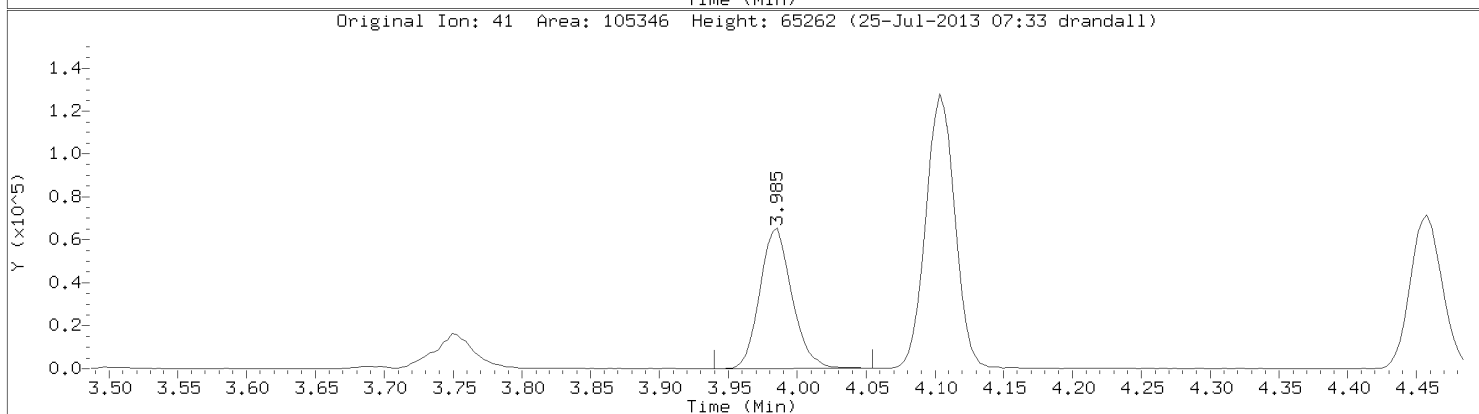
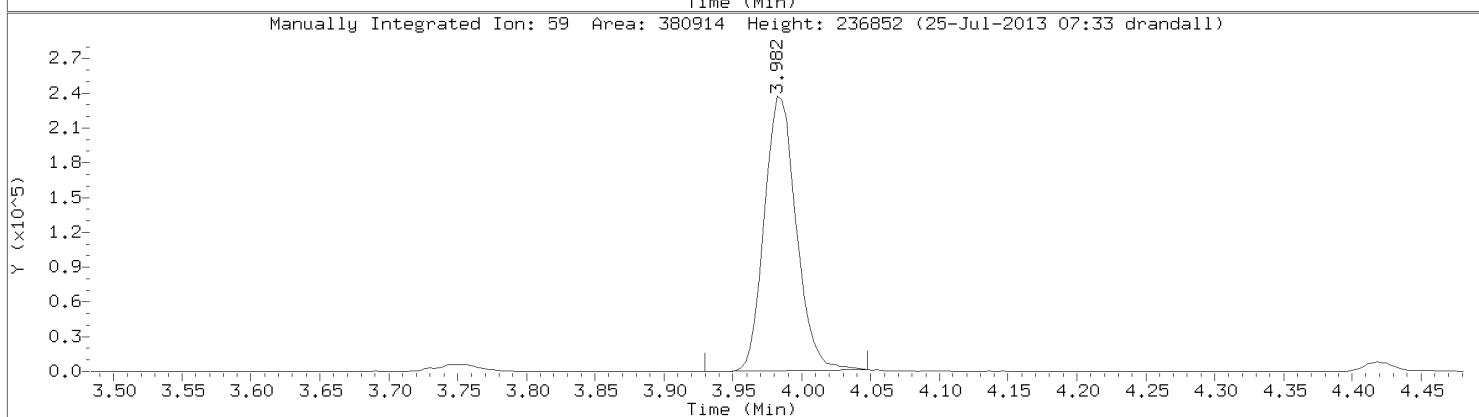
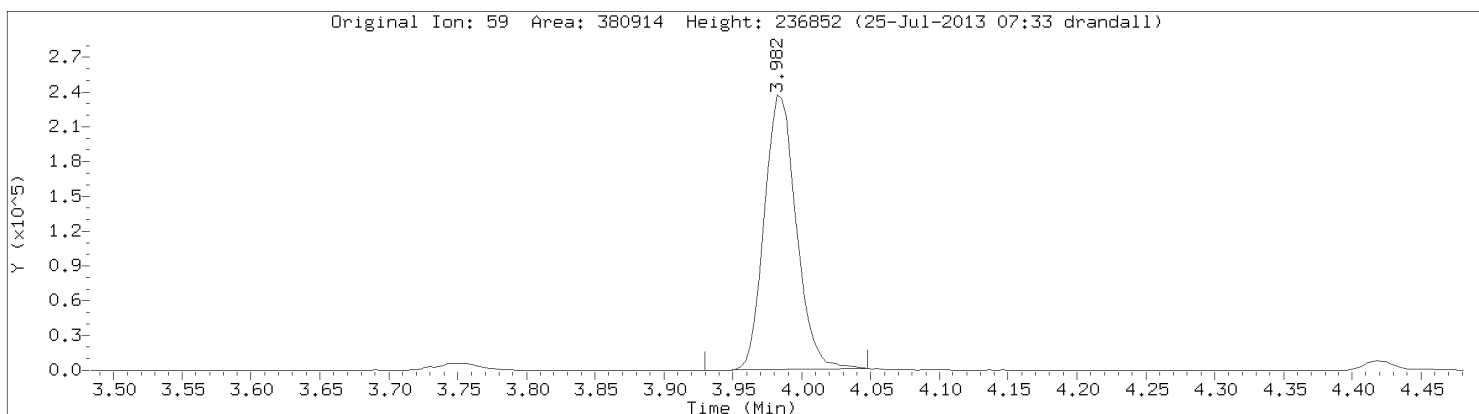
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Injection Date: 24-JUL-2013 15:36
Instrument: 10airD.i
Lab Sample ID: CAL4

Compound: Chloroethane
CAS Number: 75-00-3



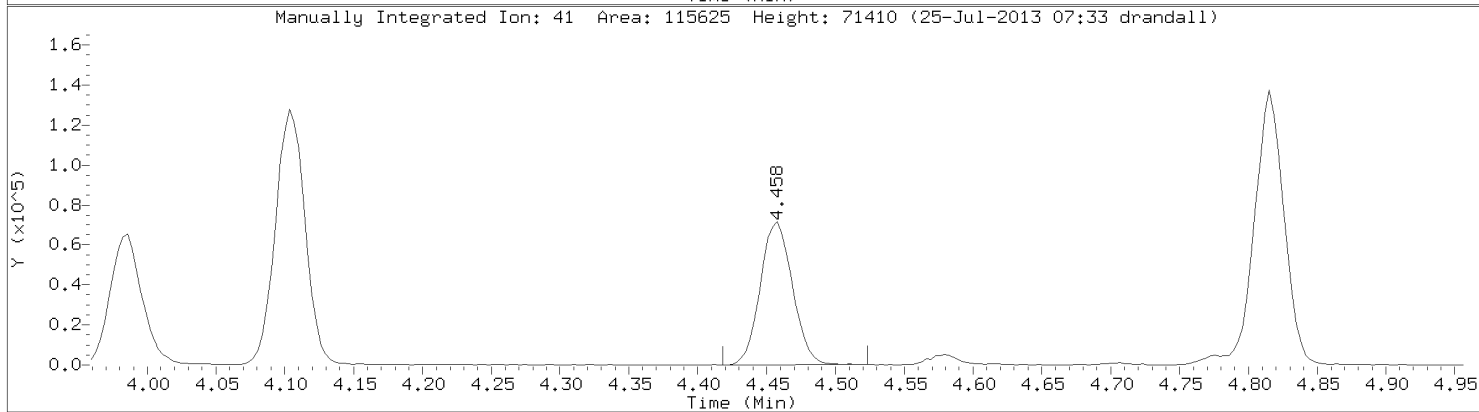
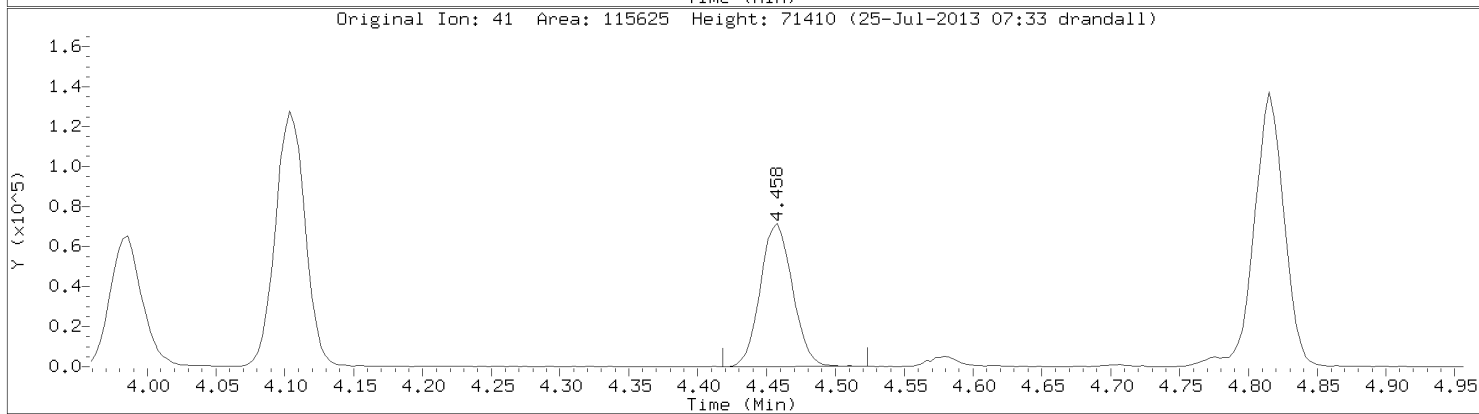
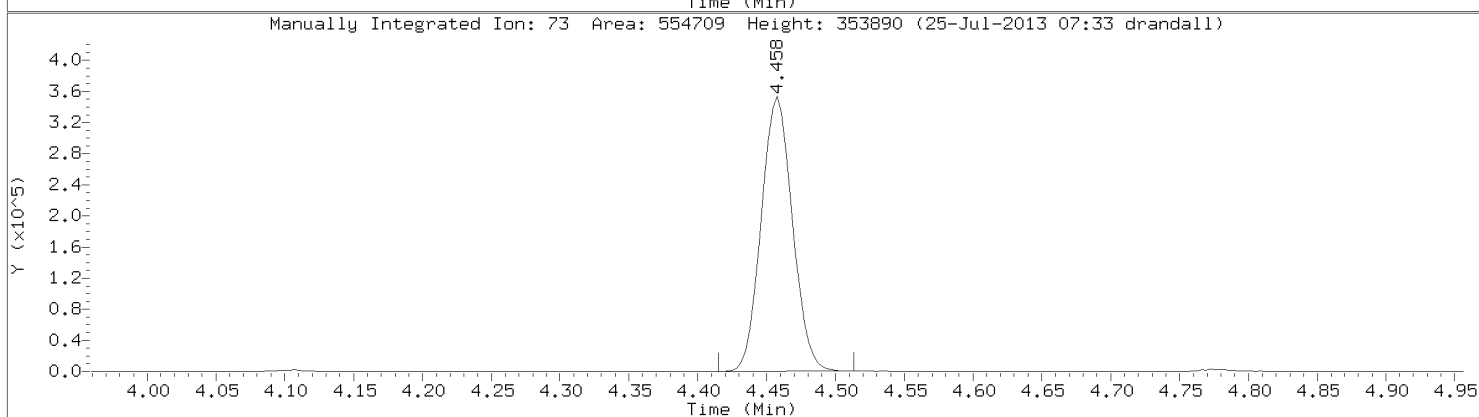
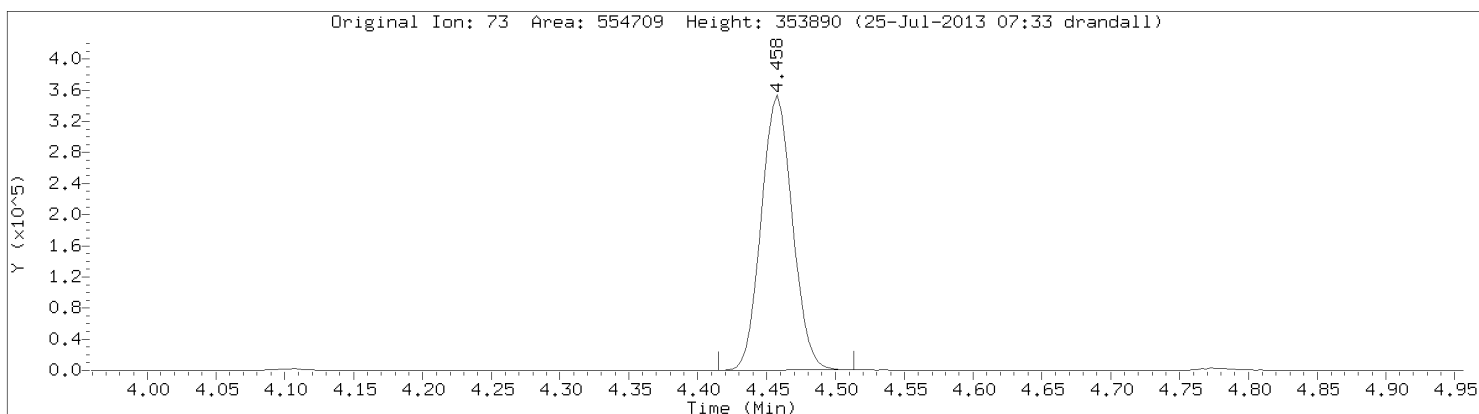
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Injection Date: 24-JUL-2013 15:36
Instrument: 10airD.i
Lab Sample ID: CAL4

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



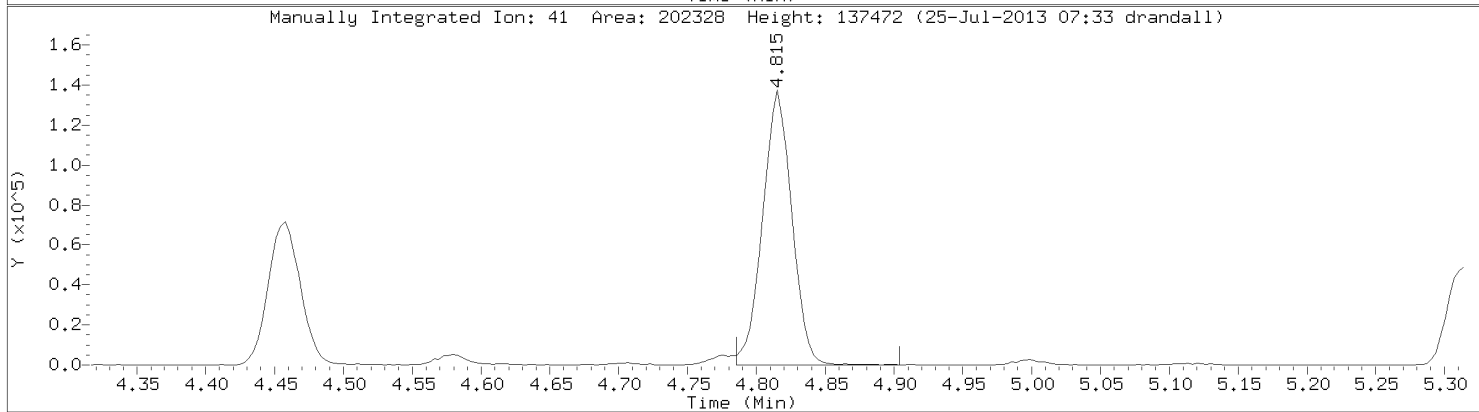
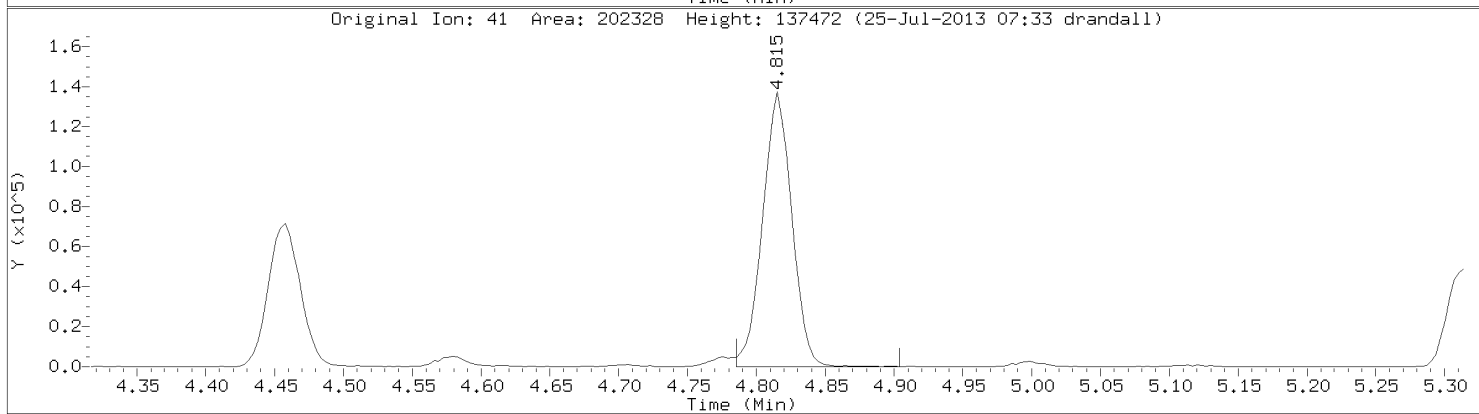
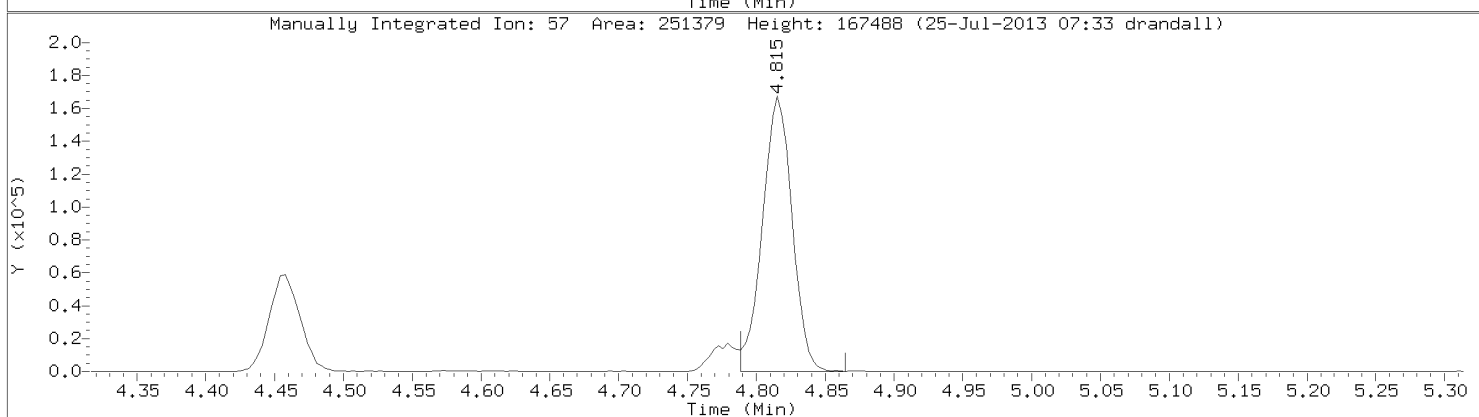
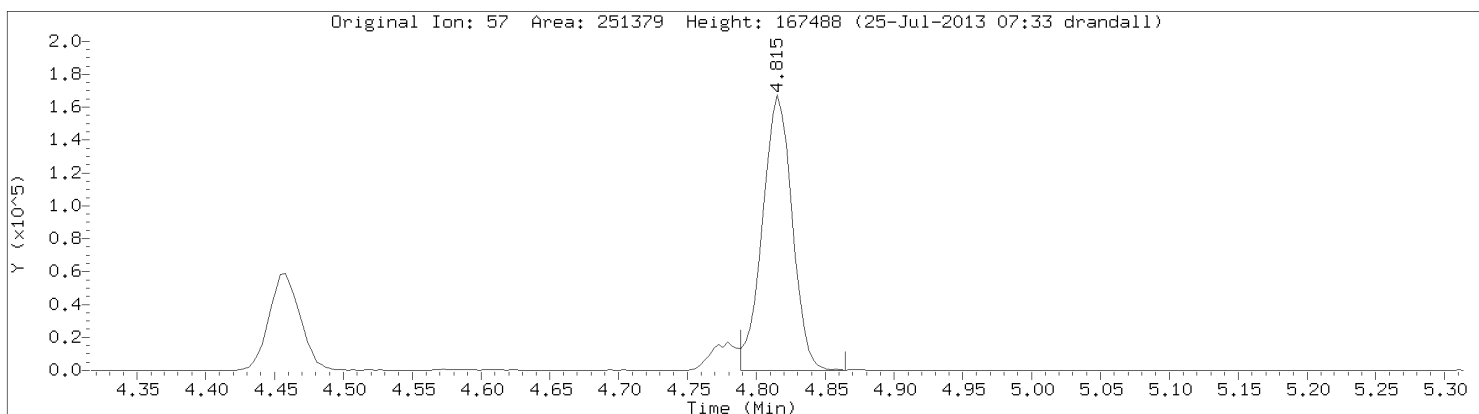
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Instrument: 10airD.i
Lab Sample ID: CAL4

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

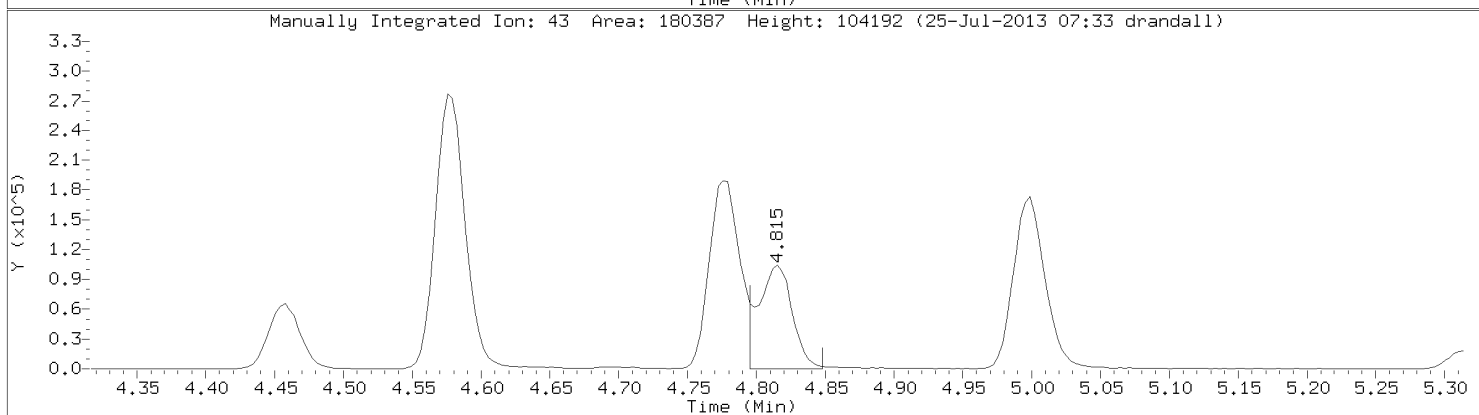
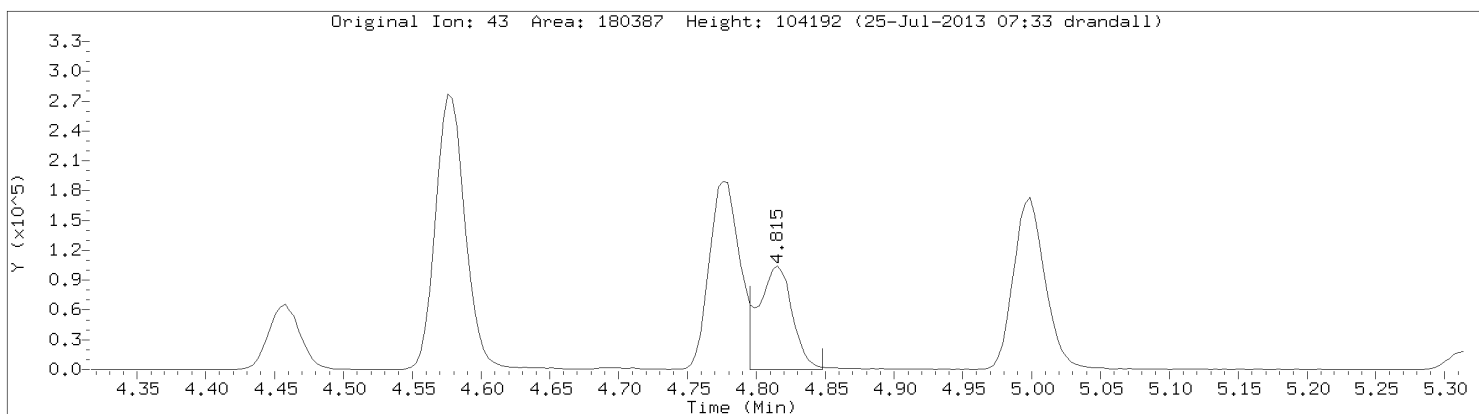


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Injection Date: 24-JUL-2013 15:36
Instrument: 10airD.i
Lab Sample ID: CAL4

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

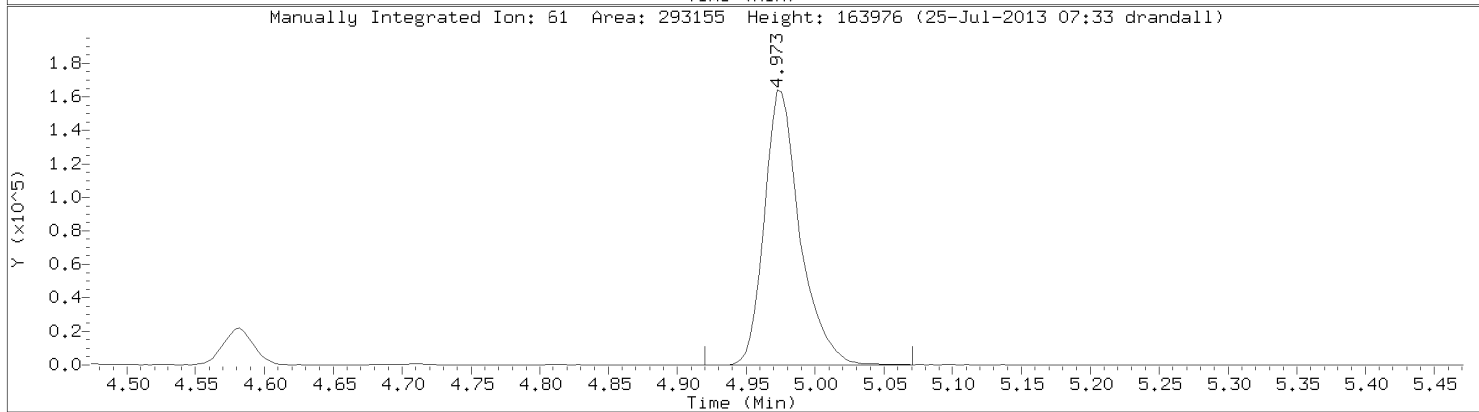
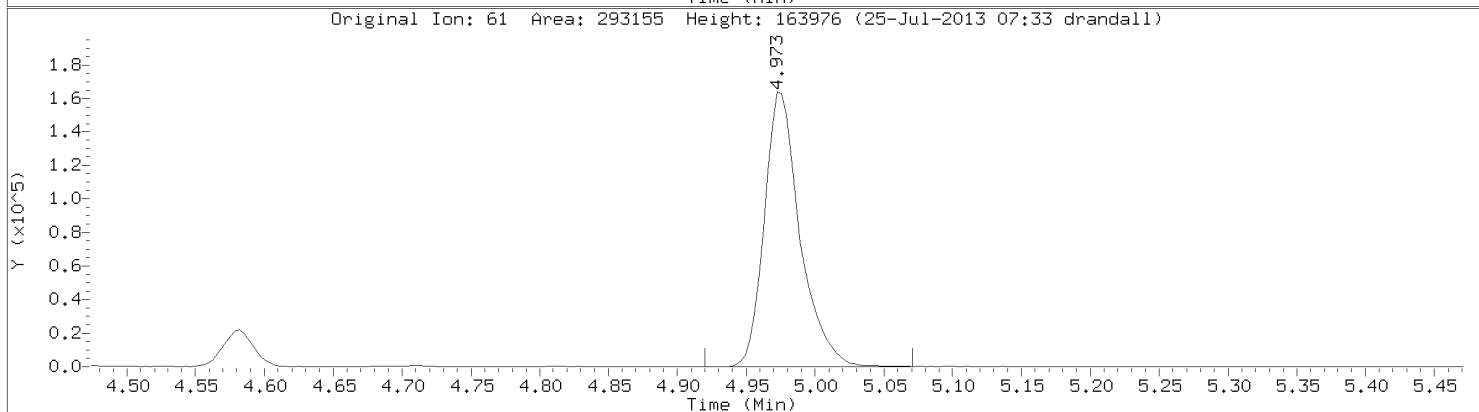
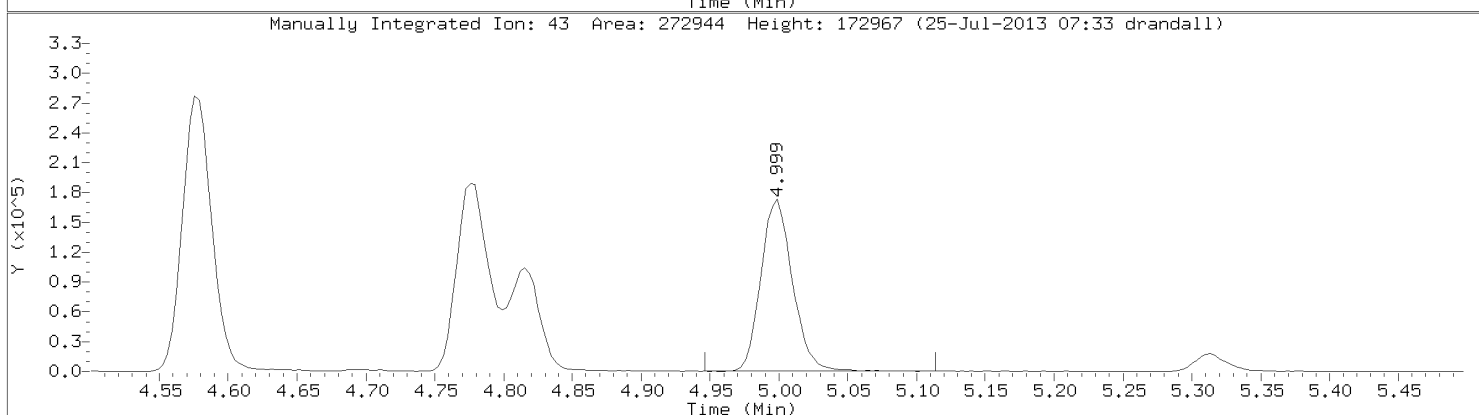
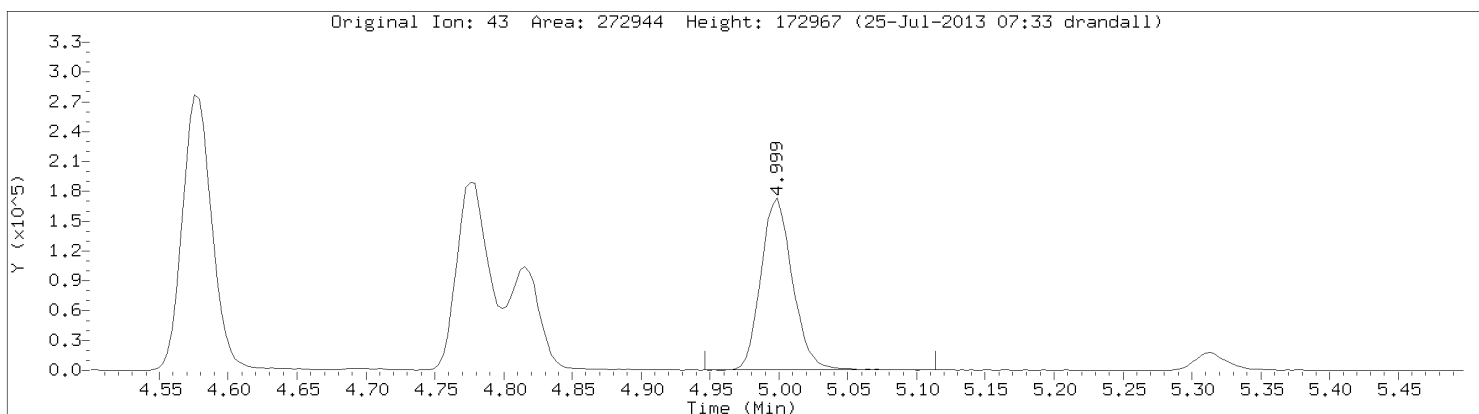


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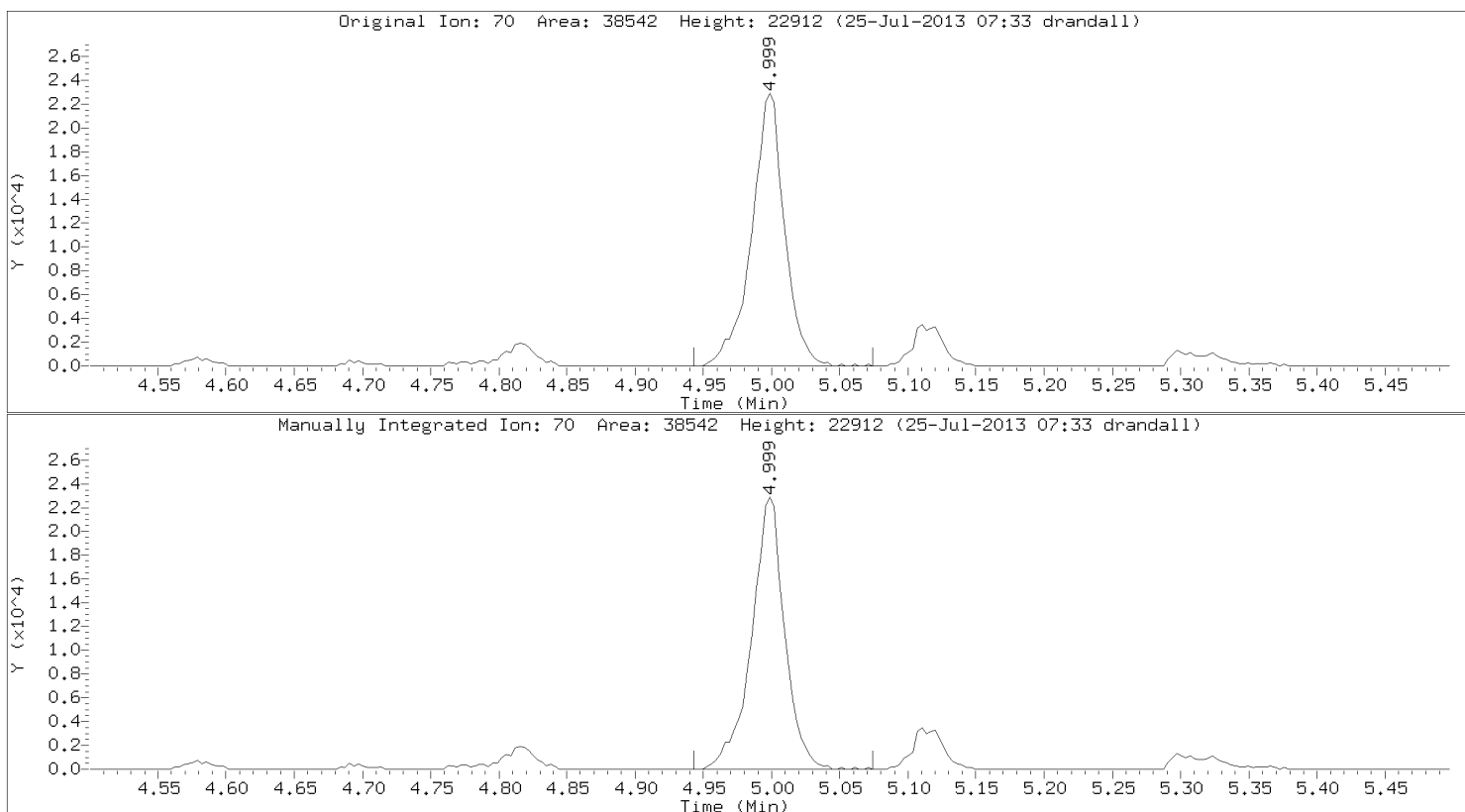


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Instrument: 10airD.i
Lab Sample ID: CAL4

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

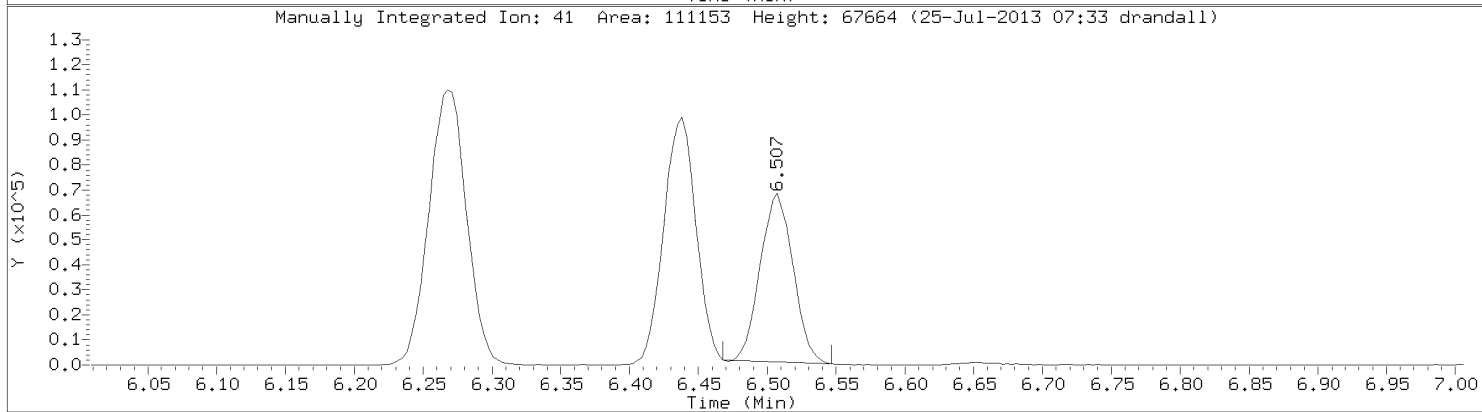
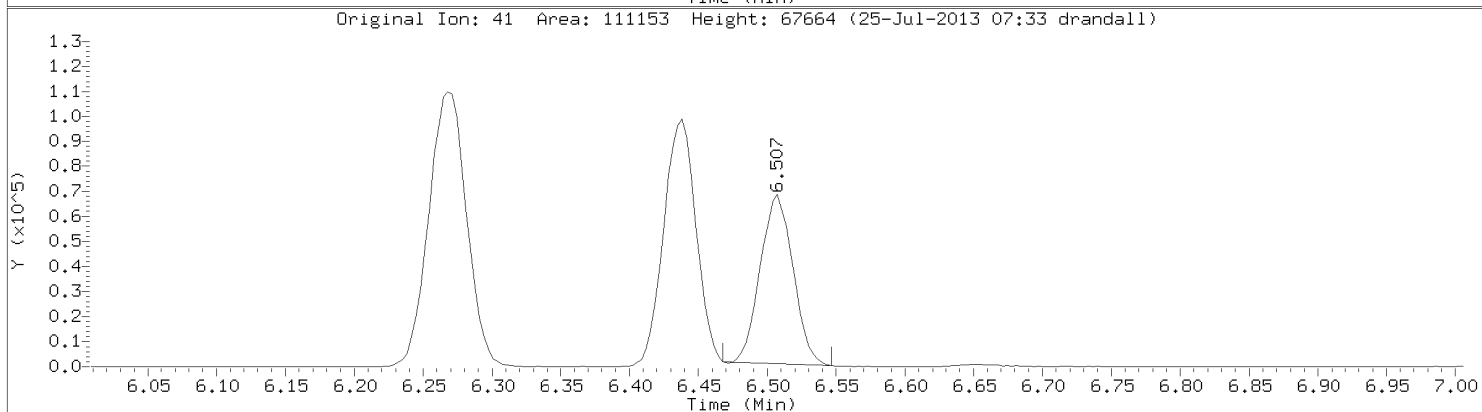
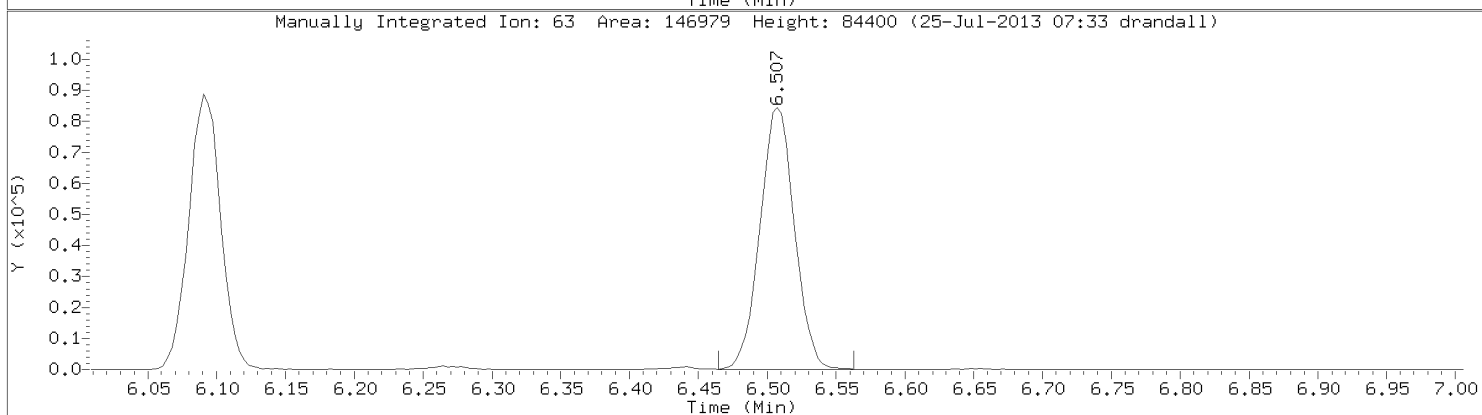
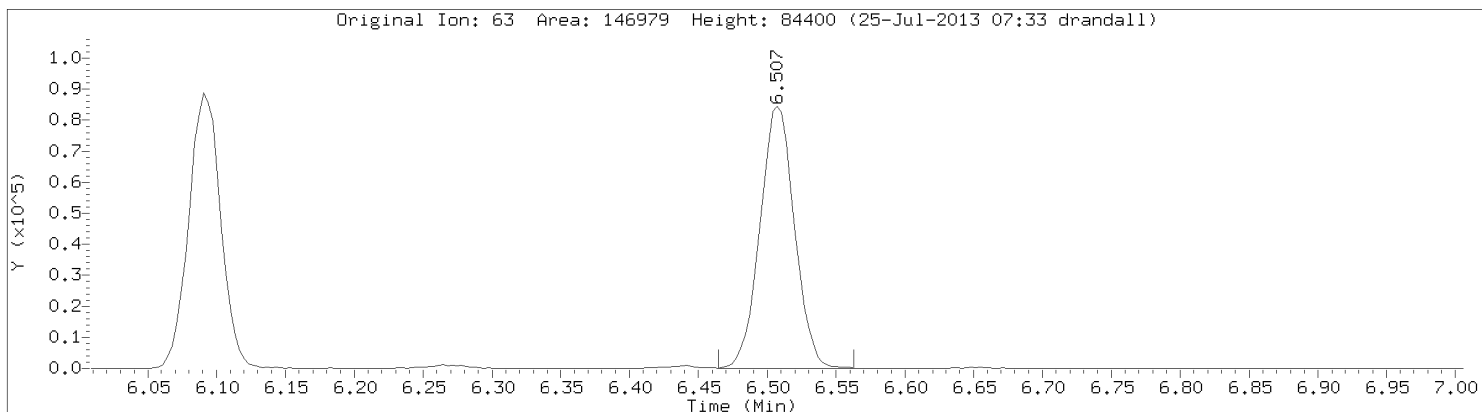


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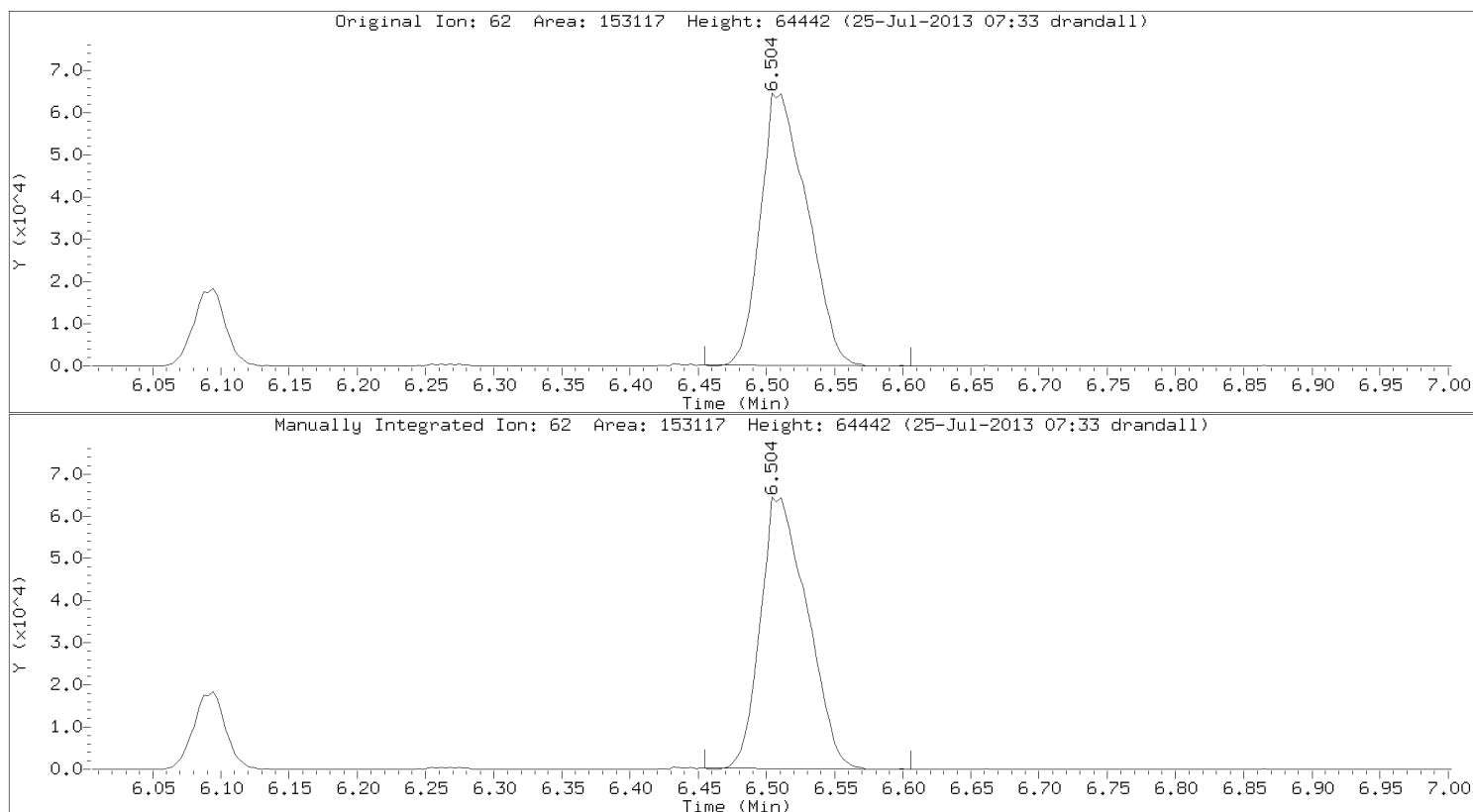


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Instrument: 10airD.i
Lab Sample ID: CAL4

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

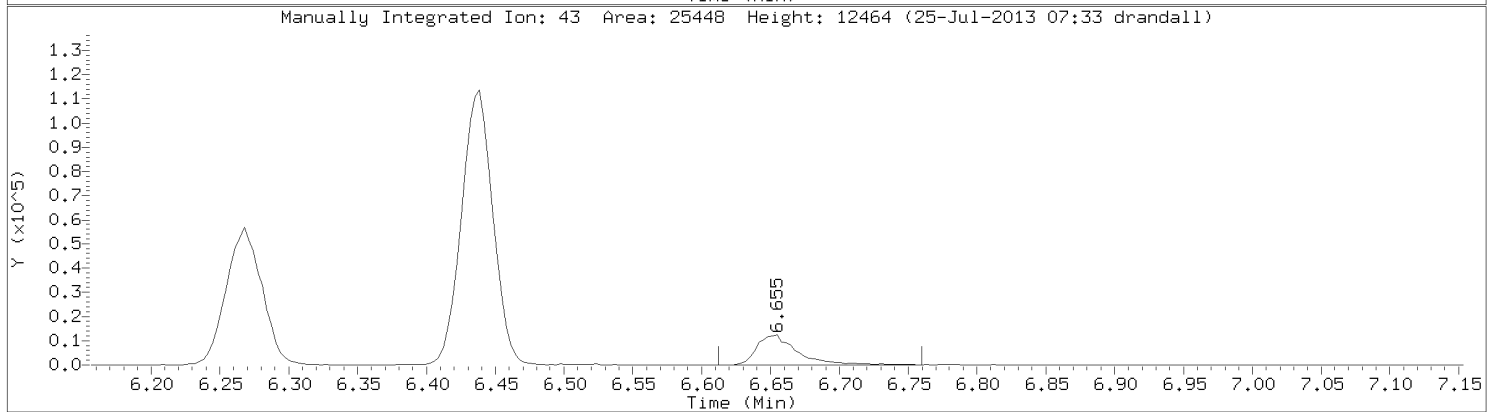
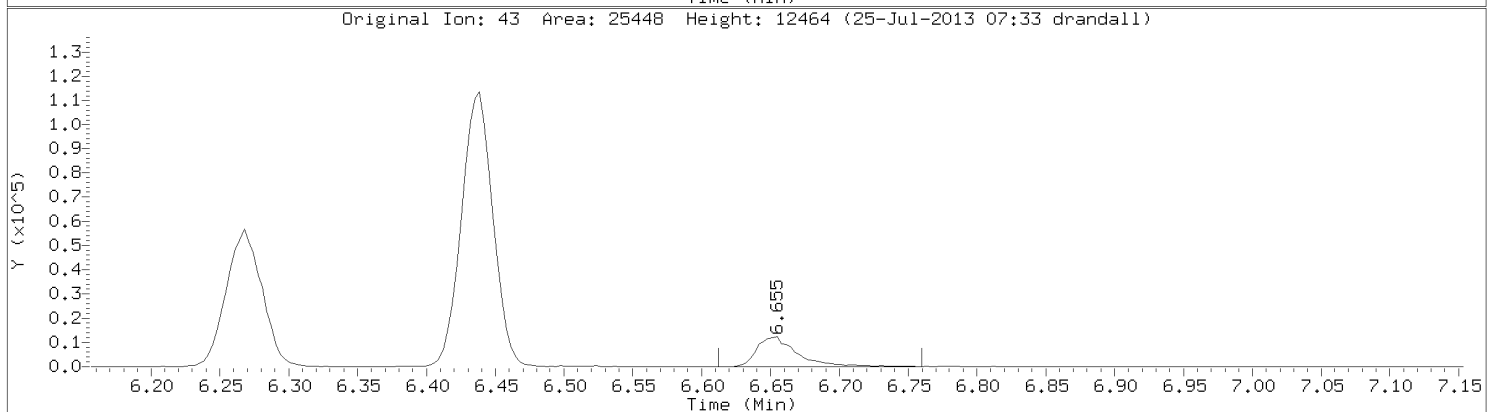
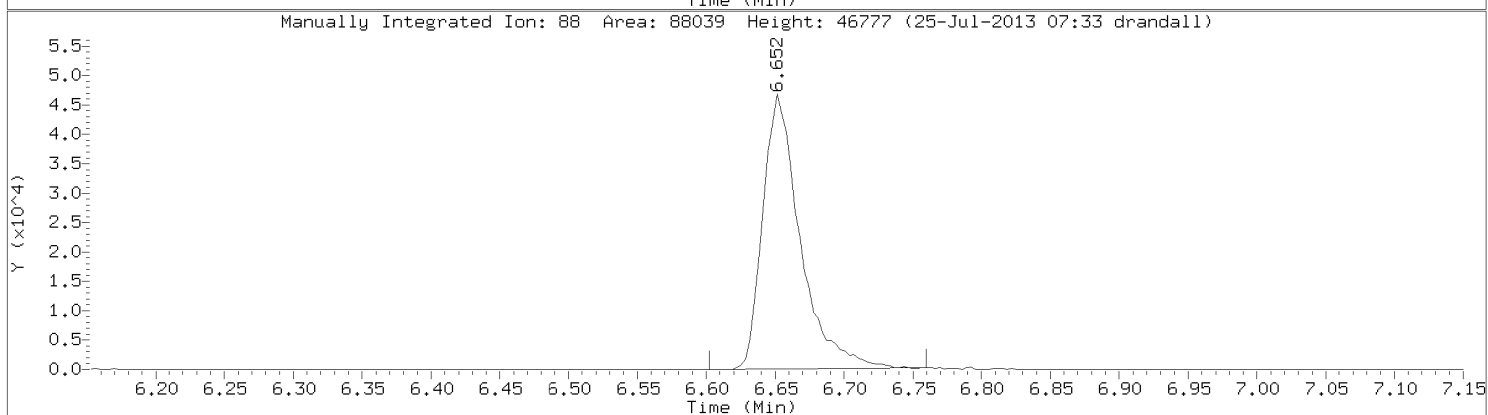
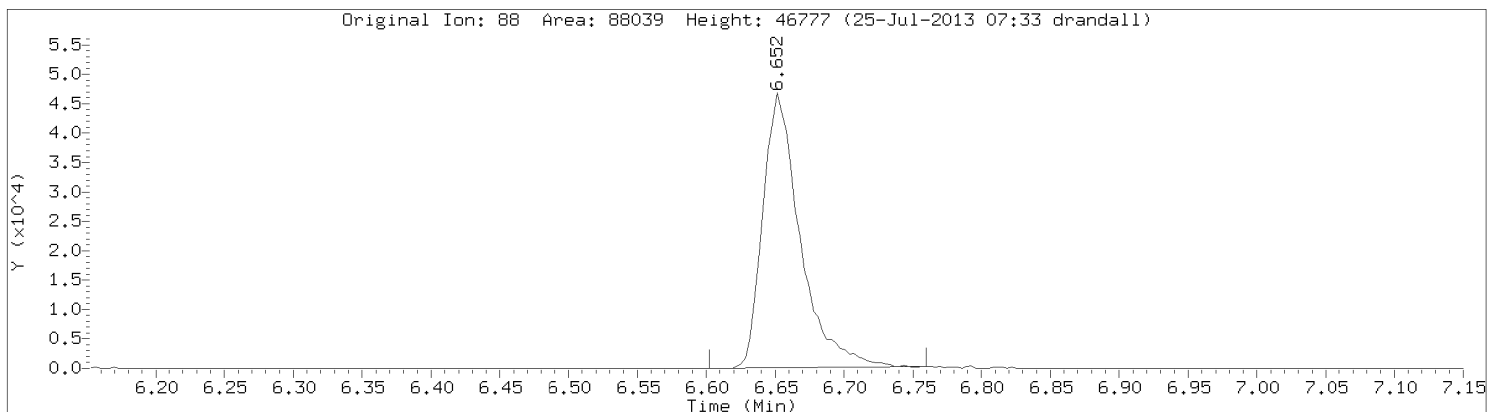


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Instrument: 10airD.i
Lab Sample ID: CAL4



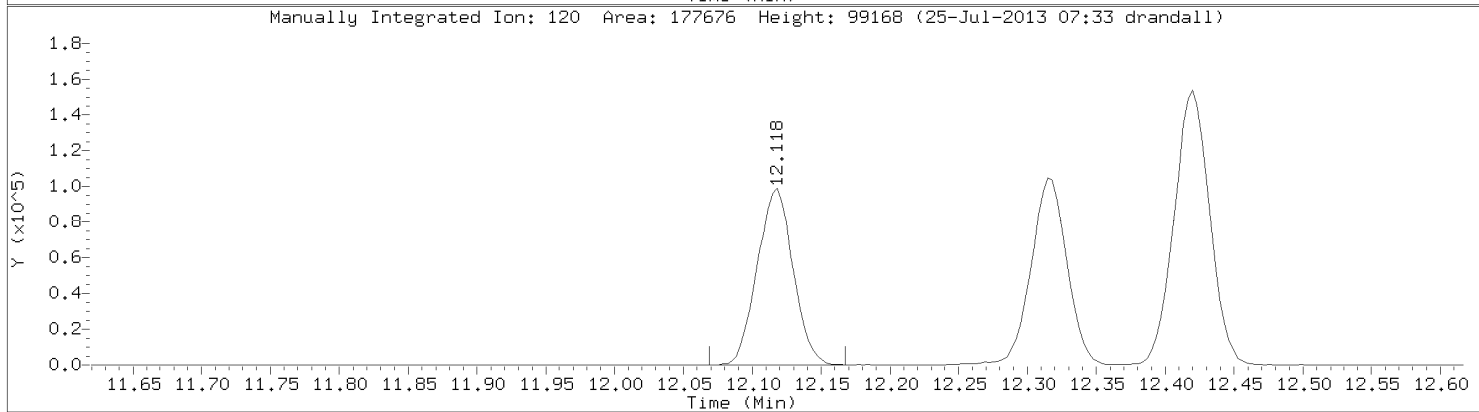
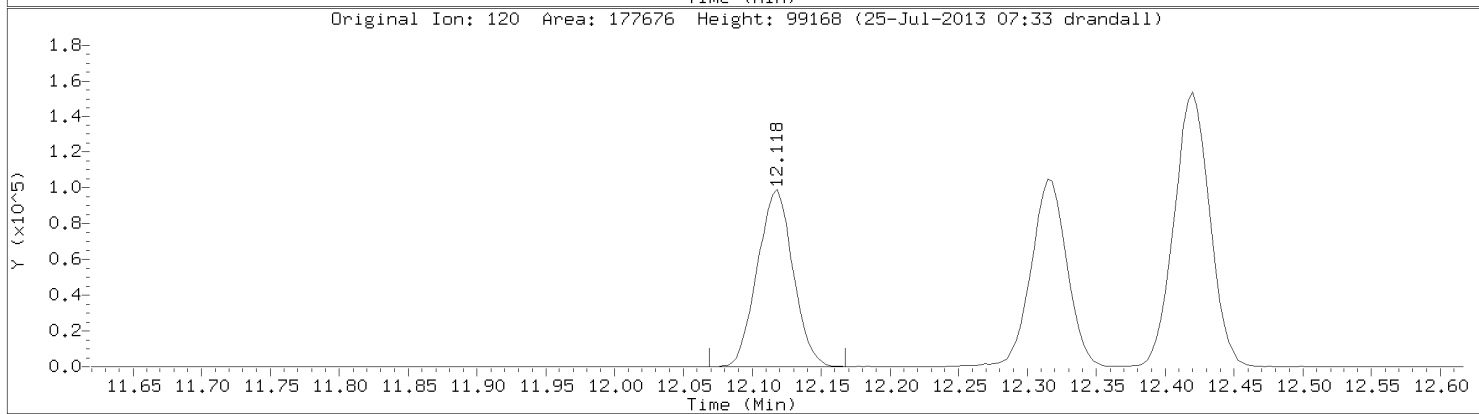
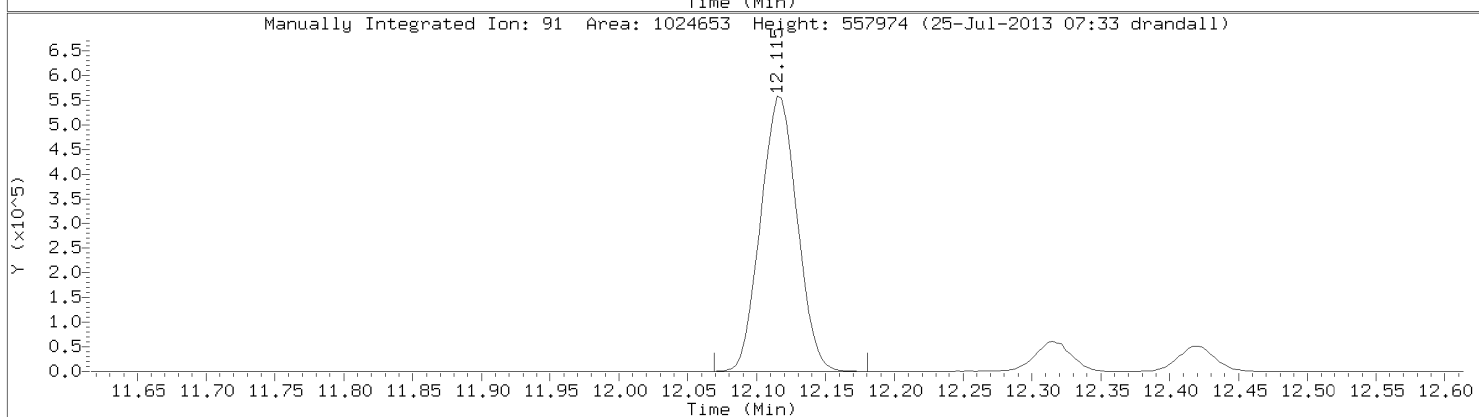
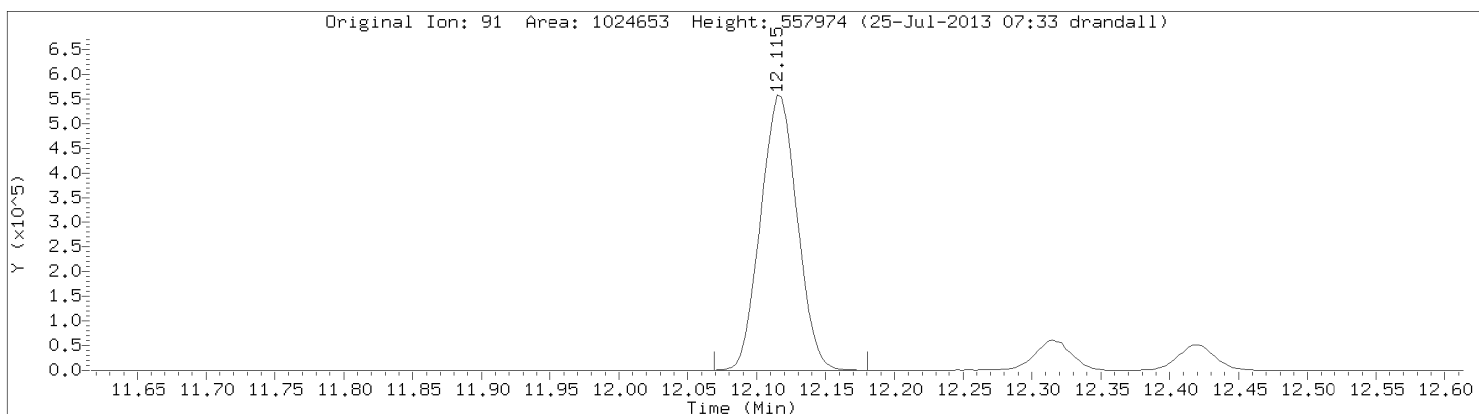
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Injection Date: 24-JUL-2013 15:36
Instrument: 10airD.i
Lab Sample ID: CAL4

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



Data File: \\192.168.10.12\chem\10airD.i\072413.b\20507.d
Injection Date: 24-JUL-2013 15:36
Instrument: 10airD.i
Lab Sample ID: CAL4

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



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072413.b\20508.d
 Lab Smp Id: CAL5
 Inj Date : 24-JUL-2013 16:06
 Operator : DR1 Inst ID: 10airD.i
 Smp Info :
 Misc Info :
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\072413.b\TO15_205-13.m
 Meth Date : 25-Jul-2013 07:24 drandall Quant Type: ISTD
 Cal Date : 24-JUL-2013 16:06 Cal File: 20508.d
 Als bottle: 8 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10AIRPC4

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	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ppbv)	ON-COL (ppbv)
1 Propylene	41		2.978	2.978	(0.489)	157114	20.0000	20.8
2 Dichlorodifluoromethane	85		3.008	3.008	(0.494)	1390239	20.0000	18.1
3 Dichlorotetrafluoroethane	85		3.106	3.106	(0.510)	1149246	20.0000	18.6
4 Chloromethane	50		3.106	3.106	(0.510)	324175	20.0000	18.5
5 Vinyl chloride	62		3.191	3.191	(0.524)	326650	20.0000	18.7
6 1,3-Butadiene	54		3.237	3.237	(0.531)	207148	20.0000	20.0
7 Bromomethane	94		3.391	3.391	(0.557)	400968	20.0000	18.2
8 Chloroethane	64		3.447	3.447	(0.566)	168452	20.0000	18.8 (M)
9 Ethanol	31		3.496	3.496	(0.574)	178754	20.0000	16.9
10 Vinyl Bromide	106		3.585	3.585	(0.588)	409450	20.0000	18.8
11 Acrolein	56		3.687	3.687	(0.605)	119156	20.0000	22.8
12 Trichlorofluoromethane	101		3.693	3.693	(0.606)	1477511	20.0000	17.7
13 Acetone	43		3.729	3.729	(0.612)	683130	20.0000	16.3
14 Isopropyl Alcohol	45		3.755	3.755	(0.616)	511845	20.0000	18.6
15 1,1-Dichloroethene	61		3.978	3.978	(0.653)	685394	20.0000	18.4
16 Acrylonitrile	53		3.985	3.985	(0.654)	241605	20.0000	21.4
17 Tert Butyl Alcohol	59		3.988	3.988	(0.655)	813889	20.0000	18.2 (M)
18 Freon 113	101		4.031	4.031	(0.662)	1010707	20.0000	18.1
19 Methylene chloride	49		4.093	4.093	(0.672)	421832	20.0000	15.9
20 Allyl Chloride	76		4.106	4.106	(0.674)	184884	20.0000	20.8
21 Carbon Disulfide	76		4.228	4.228	(0.694)	1235591	20.0000	17.9
22 trans-1,2-dichloroethene	96		4.421	4.421	(0.726)	466907	20.0000	19.5
23 Methyl Tert Butyl Ether	73		4.457	4.457	(0.731)	1215697	20.0000	20.8 (M)

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
24 Vinyl Acetate	43		4.579	4.579	(0.751)	905164	20.0000	22.4	
25 1,1-Dichloroethane	63		4.582	4.582	(0.752)	797222	20.0000	19.2	
\$ 26 Hexane-d14 (S)	66		4.700	4.700	(0.771)	303200	10.0000	9.93	
27 Methyl Ethyl Ketone	72		4.779	4.779	(0.784)	201205	20.0000	20.9	
28 n-Hexane	57		4.815	4.815	(0.790)	515693	20.0000	18.4 (M)	
29 cis-1,2-Dichloroethene	96		4.975	4.975	(0.817)	428292	20.0000	21.6	
30 Ethyl Acetate	43		4.998	4.998	(0.820)	634668	20.0000	24.2 (M)	
31 Chloroform	83		5.120	5.120	(0.840)	1033090	20.0000	20.0	
32 Tetrahydrofuran	42		5.313	5.313	(0.872)	244926	20.0000	26.5	
33 1,1,1-Trichloroethane	97		5.598	5.598	(0.919)	1154273	20.0000	20.8	
34 1,2-Dichloroethane	62		5.618	5.618	(0.922)	776434	20.0000	20.2	
35 Benzene	78		5.887	5.887	(0.966)	1114889	20.0000	23.1	
36 Carbon tetrachloride	117		5.903	5.903	(0.969)	1212850	20.0000	20.4	
37 Cyclohexane	56		5.910	5.910	(0.970)	425277	20.0000	25.3	
* 38 1,4-Difluorobenzene	114		6.094	6.094	(1.000)	632216	10.0000		
39 2,2,4-Trimethylpentane	57		6.271	6.271	(1.029)	1296294	20.0000	24.2	
40 Heptane	43		6.438	6.438	(1.056)	425068	20.0000	25.8	
41 1,2-Dichloropropane	63		6.510	6.510	(1.068)	339638	20.0000	23.8 (M)	
42 Trichloroethene	130		6.533	6.533	(1.072)	456634	20.0000	24.3	
43 1,4-Dioxane	88		6.648	6.648	(1.091)	205659	20.0000	36.2 (AM)	
44 Bromodichloromethane	83		6.654	6.654	(1.092)	1161953	20.0000	21.8	
45 Methyl Isobutyl Ketone	43		7.225	7.225	(1.186)	615766	20.0000	26.4	
46 cis-1,3-Dichloropropene	75		7.281	7.281	(1.195)	633437	20.0000	25.1	
47 trans-1,3-Dichloropropene	75		7.773	7.773	(1.276)	735267	20.0000	27.9	
\$ 48 Toluene-d8 (S)	98		7.848	7.848	(1.288)	449088	10.0000	10.2	
49 Toluene	91		7.940	7.940	(1.303)	1475852	20.0000	24.8	
50 1,1,2-Trichloroethane	97		7.946	7.946	(1.304)	509640	20.0000	23.4	
51 Methyl Butyl Ketone	43		8.245	8.245	(0.851)	605329	20.0000	27.5	
52 Dibromochloromethane	129		8.560	8.560	(0.883)	928734	20.0000	22.9	
53 1,2-Dibromoethane	107		8.829	8.829	(0.911)	786329	20.0000	23.5	
54 Tetrachloroethene	166		8.917	8.917	(0.920)	740015	20.0000	23.9	
* 55 Chlorobenzene - d5	117		9.691	9.691	(1.000)	239389	10.0000		
56 Chlorobenzene	112		9.740	9.740	(1.005)	957687	20.0000	22.1	
57 Ethyl Benzene	91		10.039	10.039	(1.036)	1848303	20.0000	26.8	
58 m&p-Xylene	91		10.212	10.212	(1.054)	1467337	20.0000	26.7	
59 Bromoform	173		10.655	10.655	(1.099)	999486	20.0000	23.7	
60 Styrene	104		10.704	10.704	(1.105)	959097	20.0000	29.1	
61 o-Xylene	91		10.783	10.783	(1.113)	1539287	20.0000	26.3	
62 1,1,2,2-Tetrachloroethane	83		11.091	11.091	(1.144)	881865	20.0000	22.0	
63 Isopropylbenzene	105		11.459	11.459	(1.182)	1944777	20.0000	23.9	
64 N-Propylbenzene	91		12.118	12.118	(1.250)	2328723	20.0000	30.2 (AM)	
65 4-Ethyltoluene	105		12.318	12.318	(1.271)	1819880	20.0000	28.6	
66 1,3,5-Trimethylbenzene	105		12.423	12.423	(1.282)	1587896	20.0000	27.4	
67 1,2,4-Trimethylbenzene	105		13.020	13.020	(1.343)	1531165	20.0000	30.3 (A)	
68 1,3-Dichlorobenzene	146		13.374	13.374	(1.380)	937380	20.0000	26.8	
69 Sec- Butylbenzene	105		13.400	13.400	(1.383)	2122231	20.0000	28.2	
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.456	13.456	(1.388)	106134	10.0000	10.1	
71 Benzyl Chloride	91		13.482	13.482	(1.391)	1311772	20.0000	26.6	
72 1,4-Dichlorobenzene	146		13.505	13.505	(1.394)	904829	20.0000	23.8	
73 1,2-Dichlorobenzene	146		14.039	14.039	(1.449)	775997	20.0000	26.3	
74 N-Butylbenzene	91		14.325	14.325	(1.478)	1634656	20.0000	28.8	
75 1,2,4-Trichlorobenzene	180		16.679	16.679	(1.721)	551490	20.0000	27.9	
76 Naphthalene	128		16.860	16.860	(1.740)	852884	20.0000	31.3 (A)	
77 Hexachlorobutadiene	225		17.233	17.233	(1.778)	607525	20.0000	22.9	

Data File: \\192.168.10.12\chem\10airD.i\072413.b\20508.d
Report Date: 25-Jul-2013 07:33

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\10airD.i\072413.b\20508.d
Report Date: 25-Jul-2013 07:33

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 20508.d
Lab Smp Id: CAL5
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\072413.b\TO15_205-13.m
Misc Info:

Calibration Date: 24-JUL-2013
Calibration Time: 15:36
Level: LOW
Sample Type: AIR

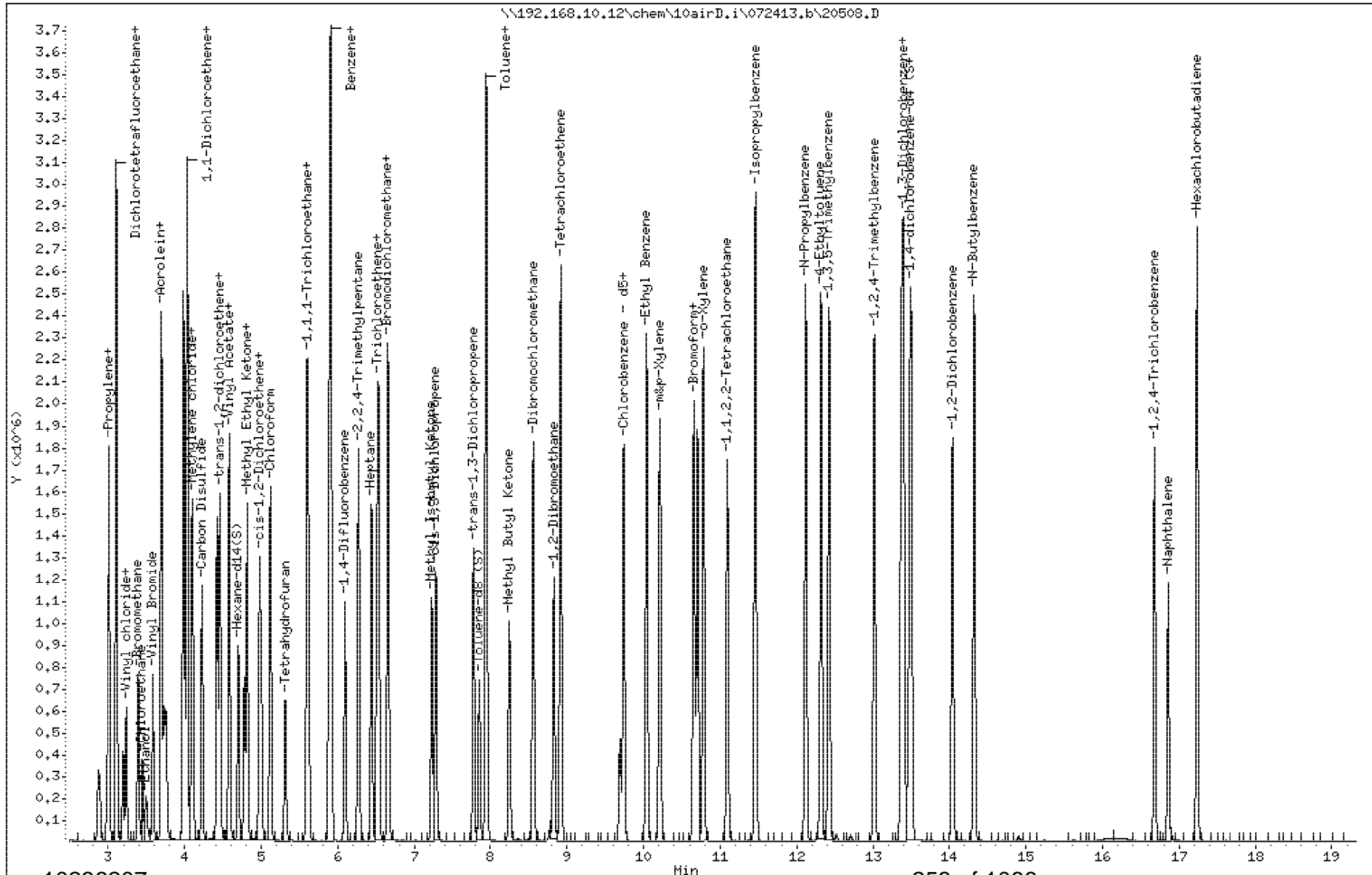
Test Mode:

Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	632216	9.05
55 Chlorobenzene - d	221404	132842	309966	239389	8.12

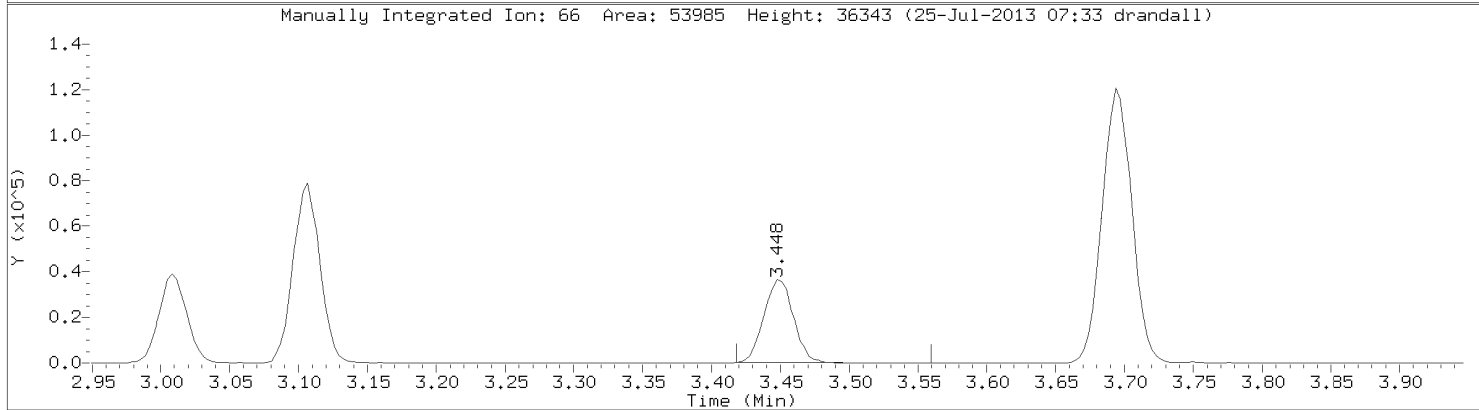
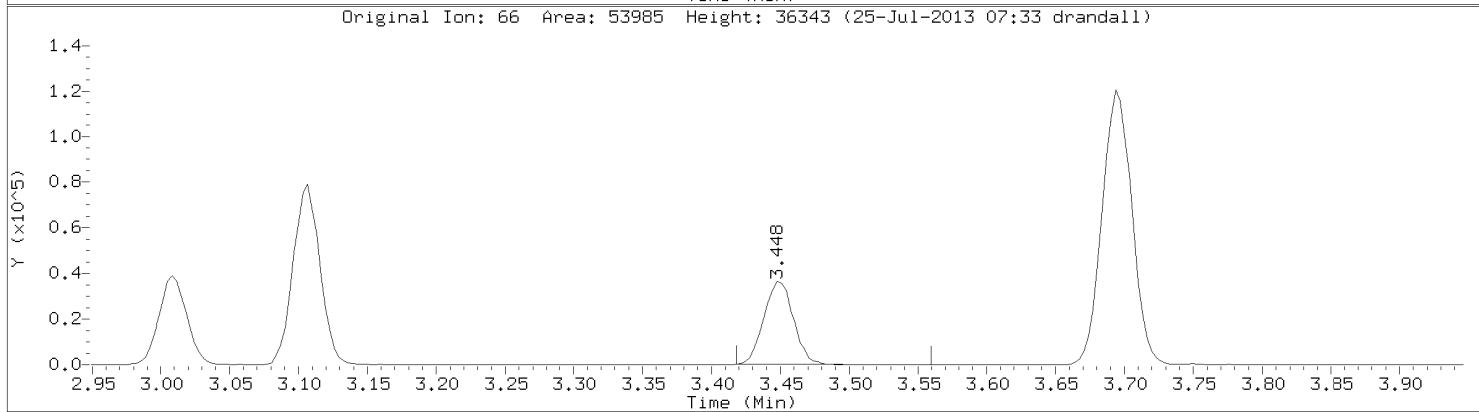
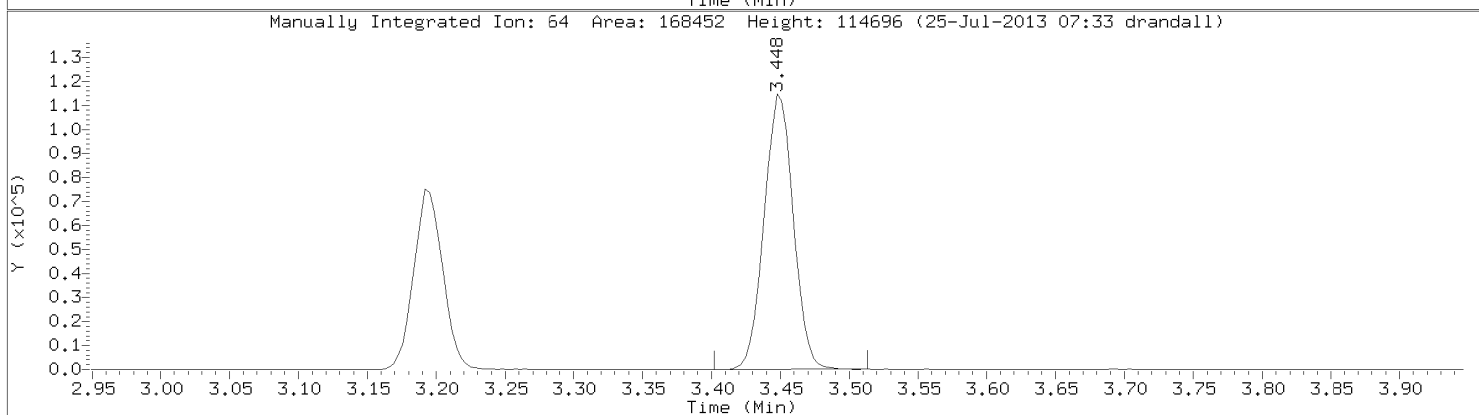
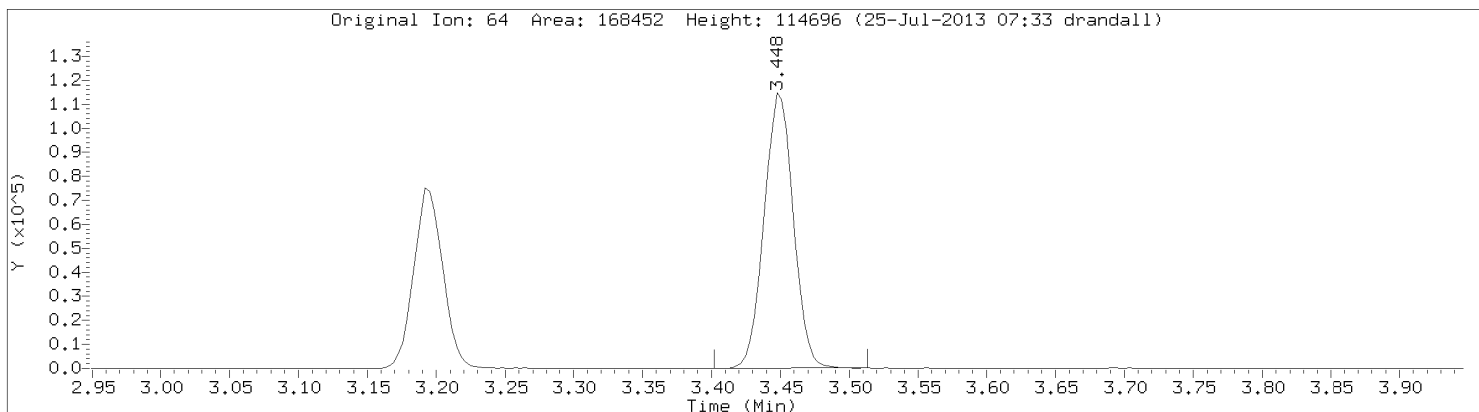
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	0.06
55 Chlorobenzene - d	9.69	9.36	10.02	9.69	0.04

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.



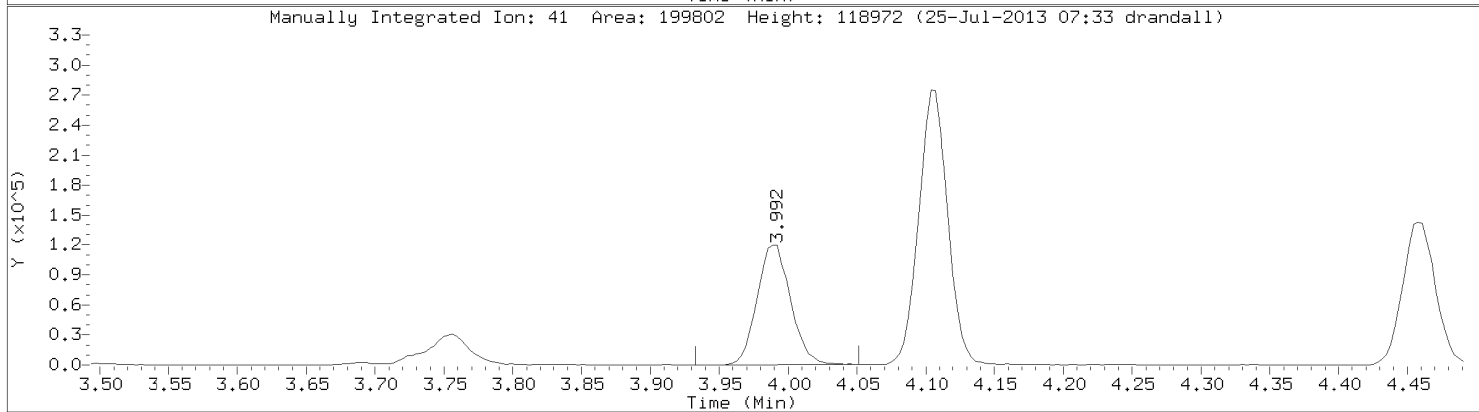
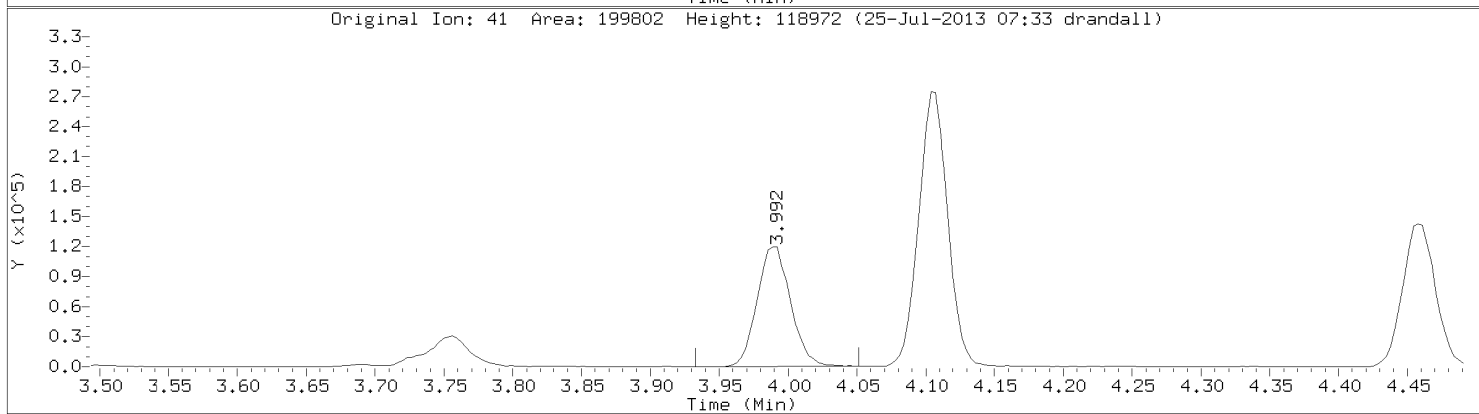
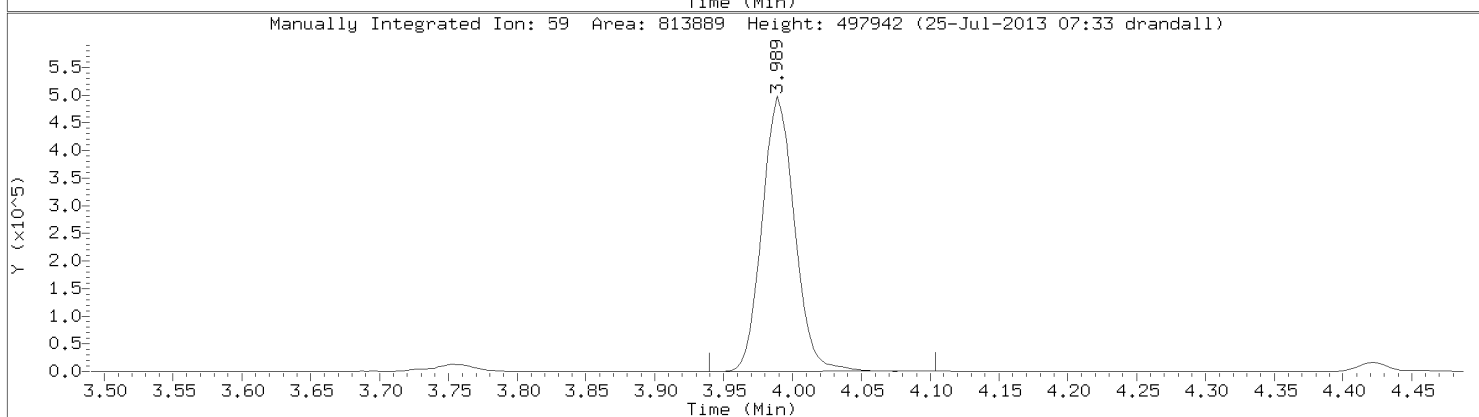
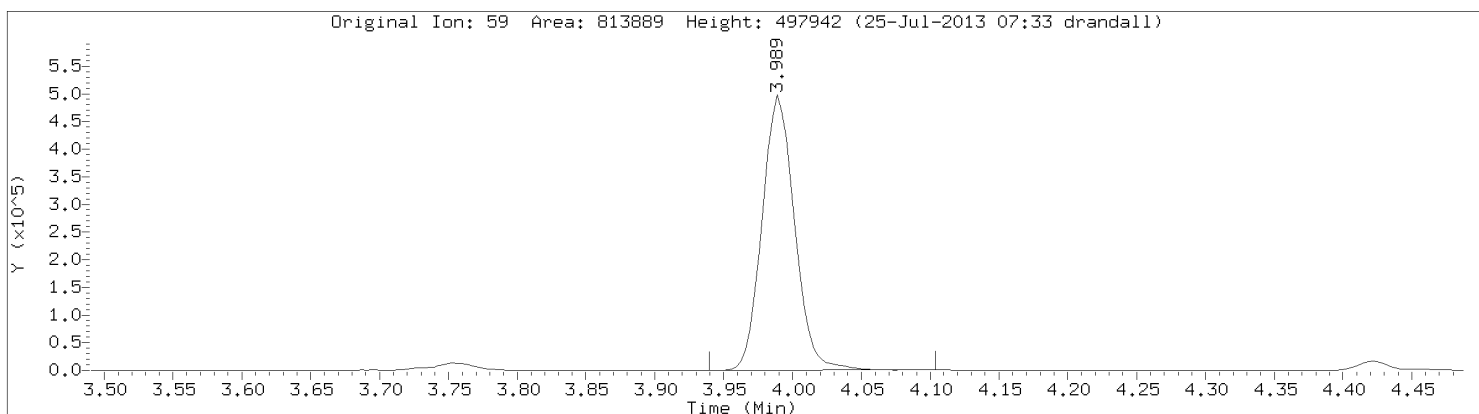
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Injection Date: 24-JUL-2013 16:06
Instrument: 10airD.i
Lab Sample ID: CAL5

Compound: Chloroethane
CAS Number: 75-00-3



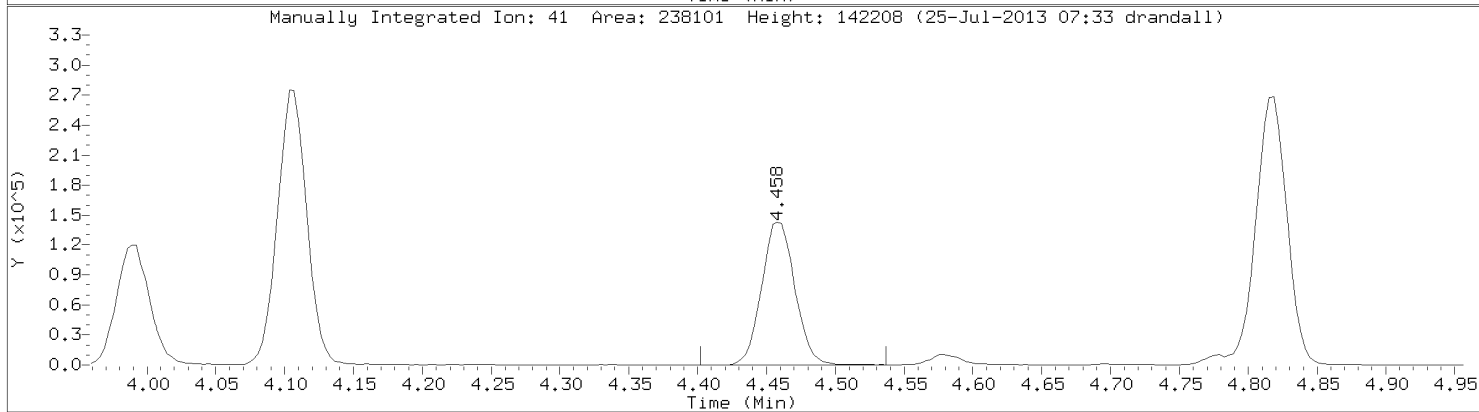
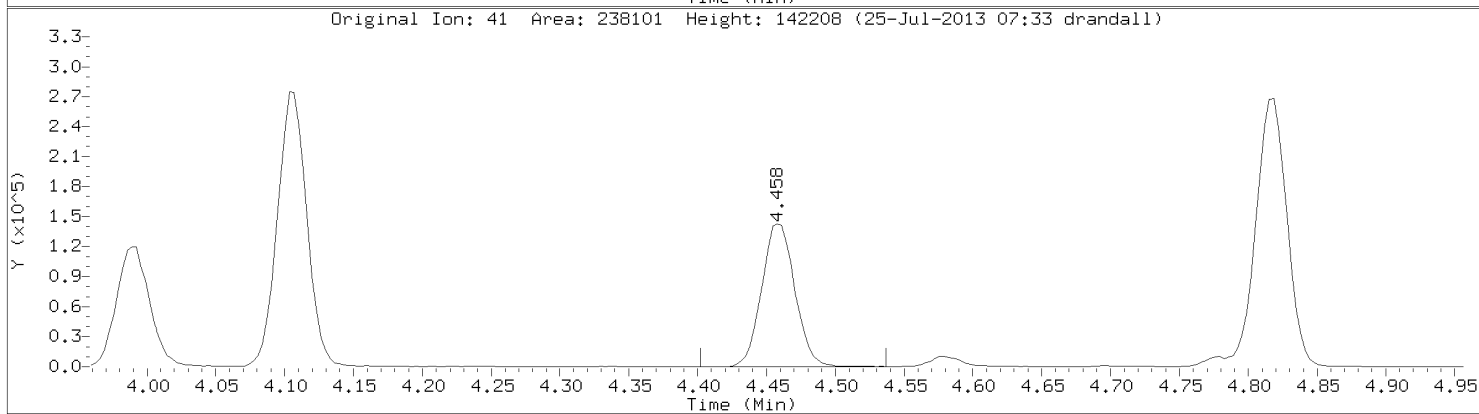
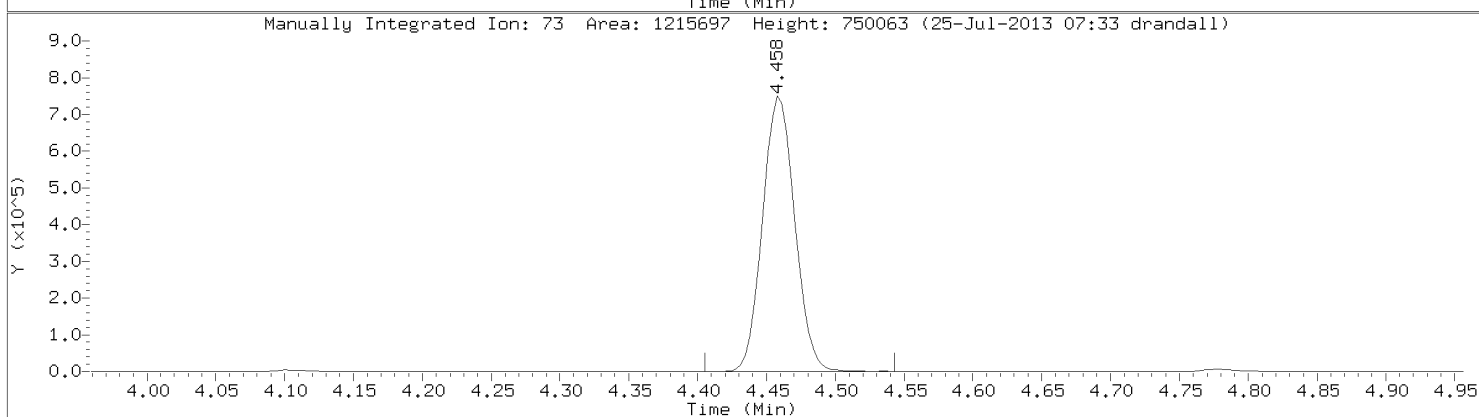
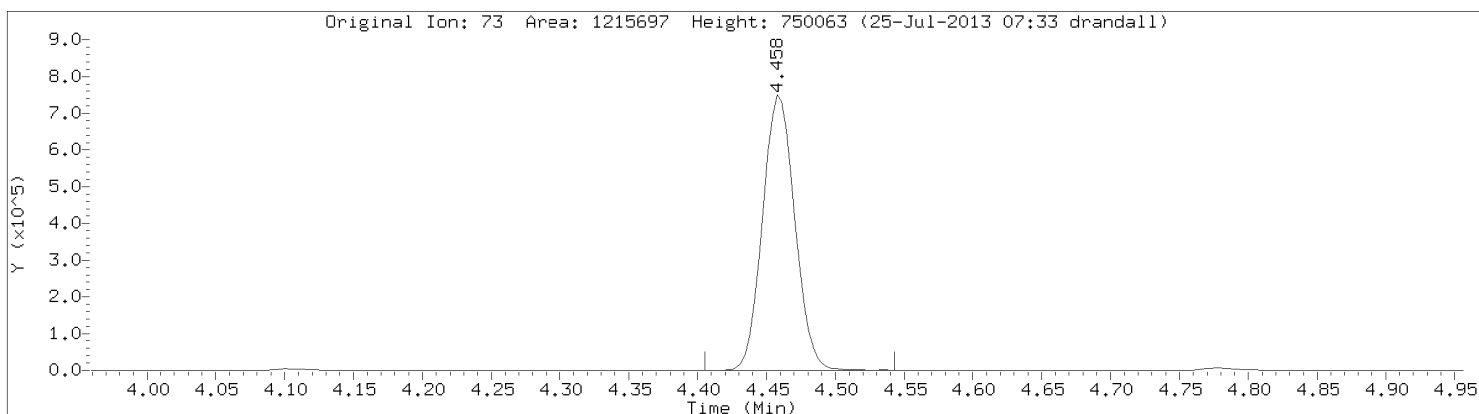
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Injection Date: 24-JUL-2013 16:06
Instrument: 10airD.i
Lab Sample ID: CAL5

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



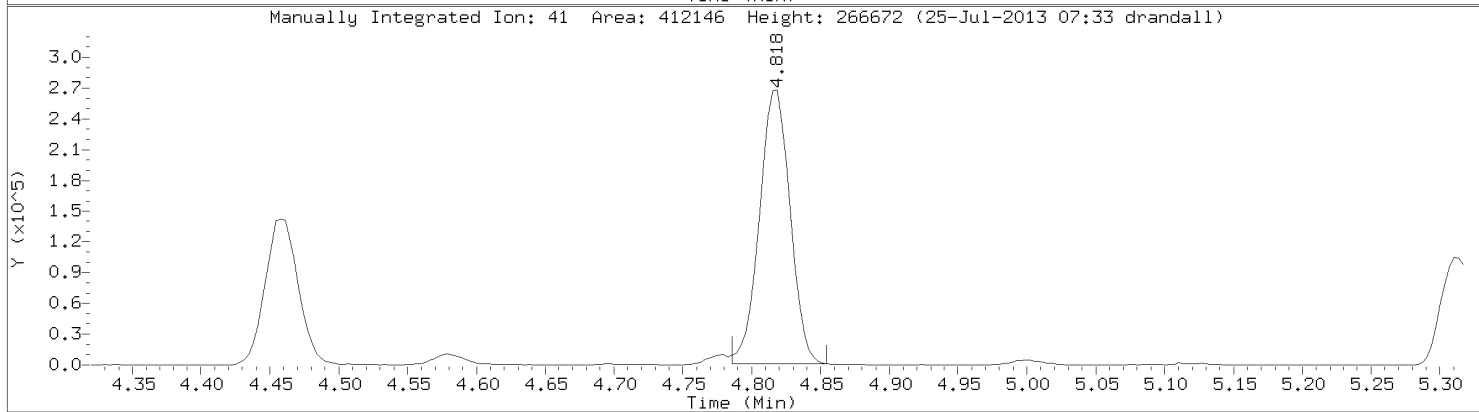
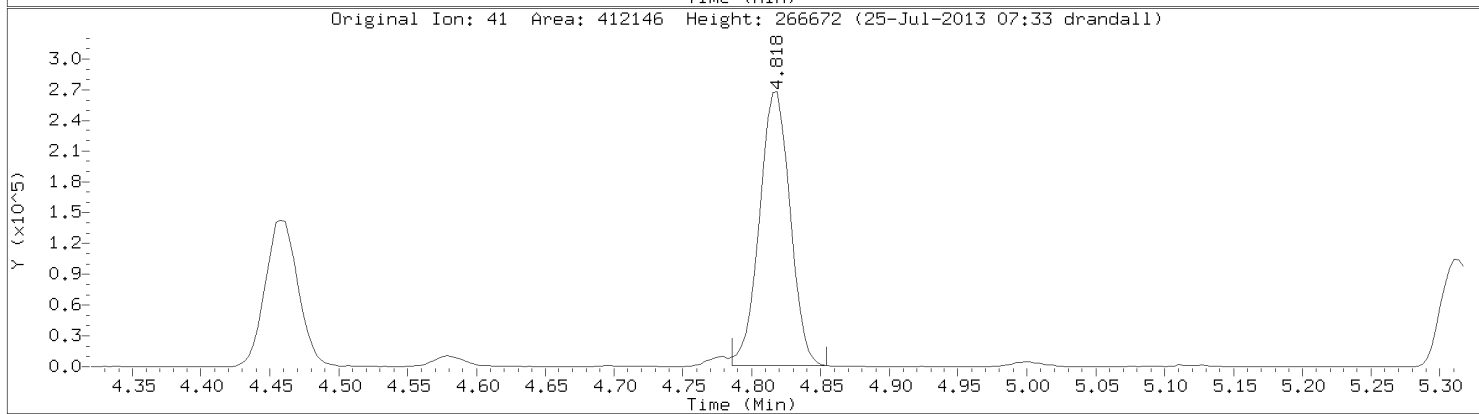
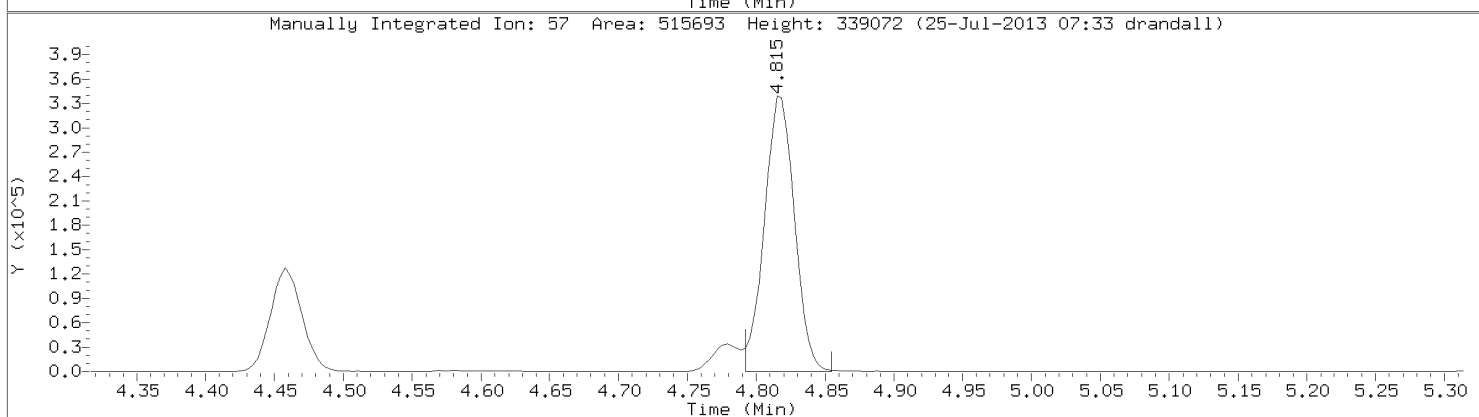
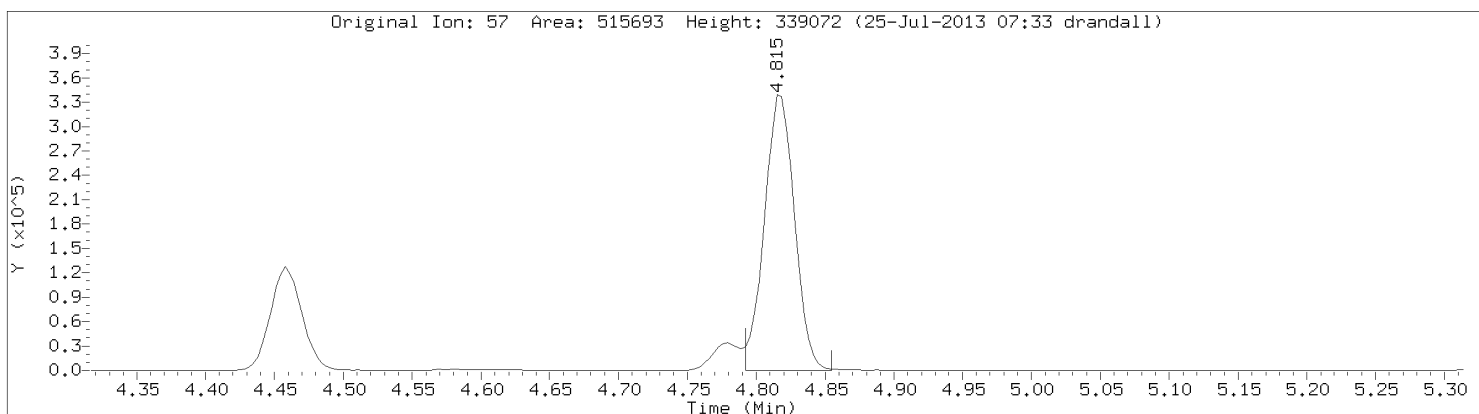
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Injection Date: 24-JUL-2013 16:06
Instrument: 10airD.i
Lab Sample ID: CAL5

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

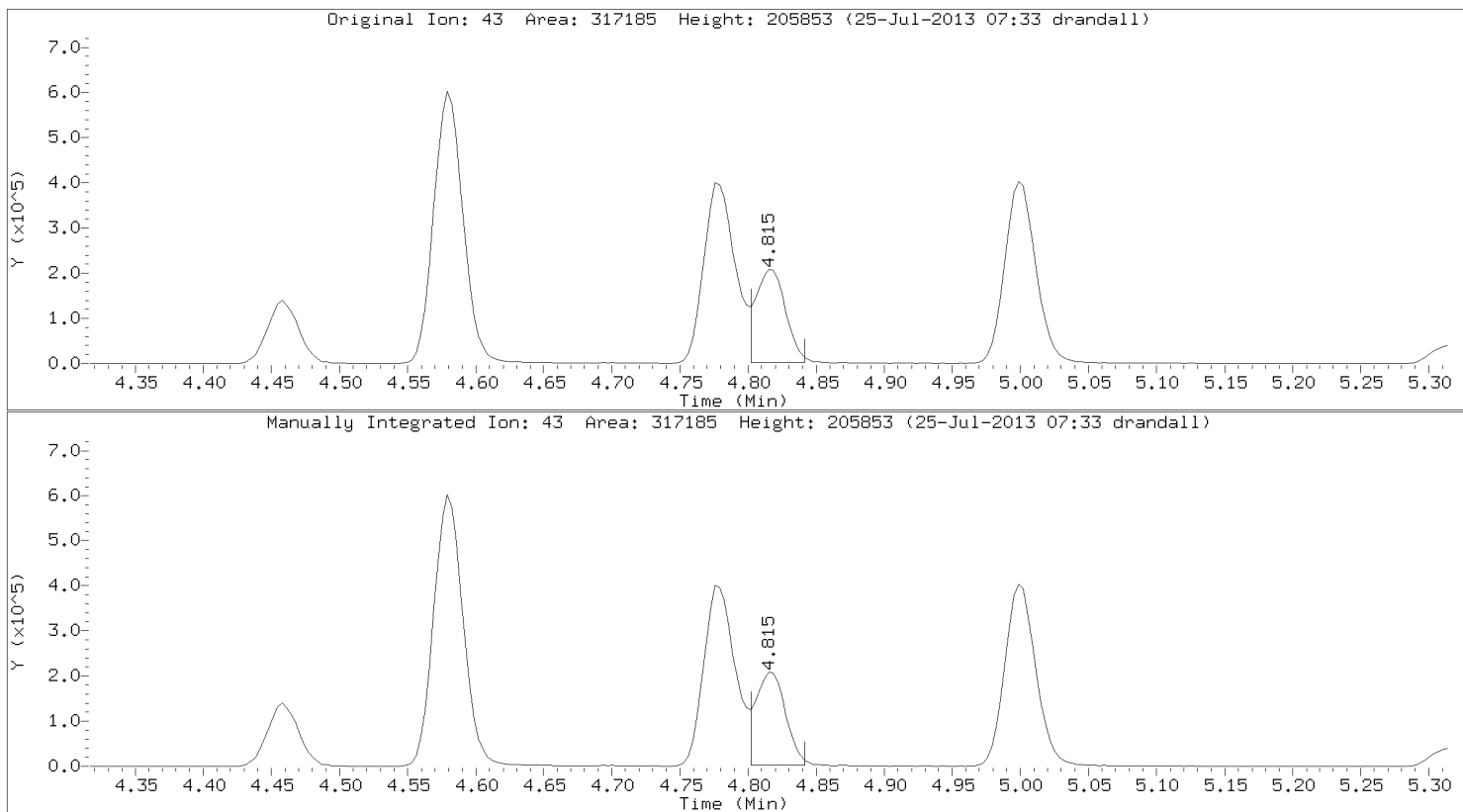


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Injection Date: 24-JUL-2013 16:06
Instrument: 10airD.i
Lab Sample ID: CAL5

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

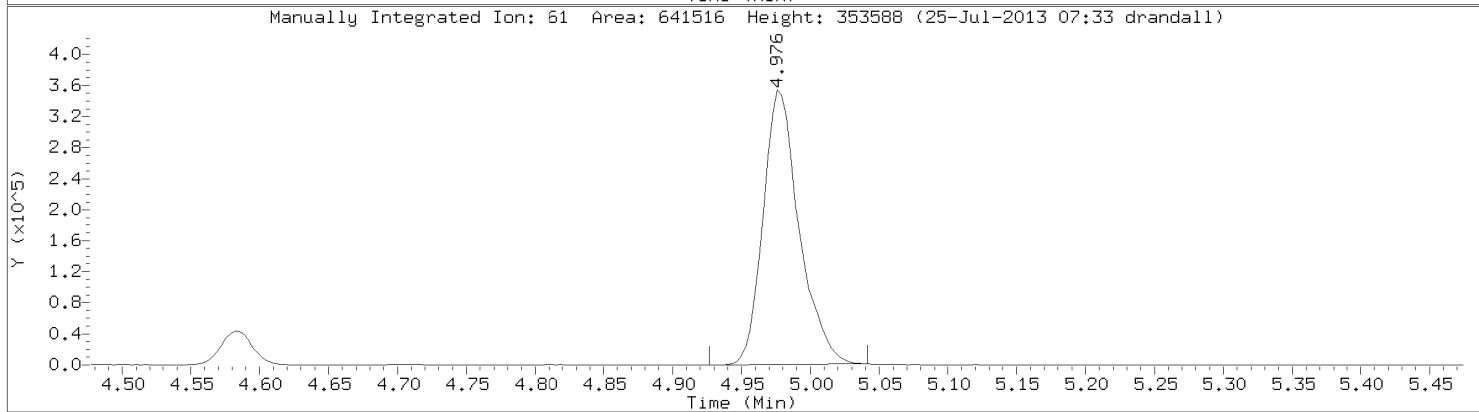
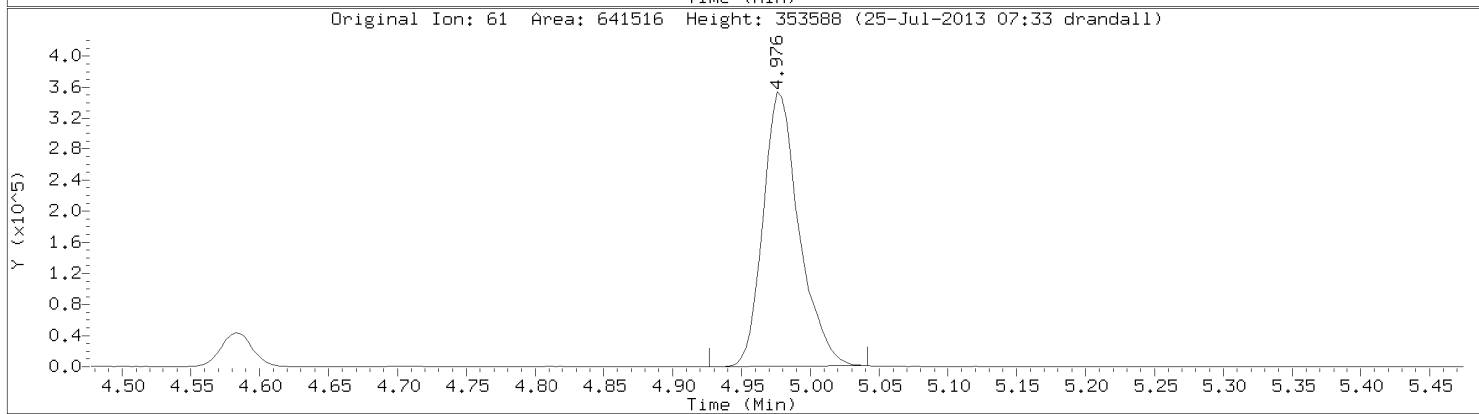
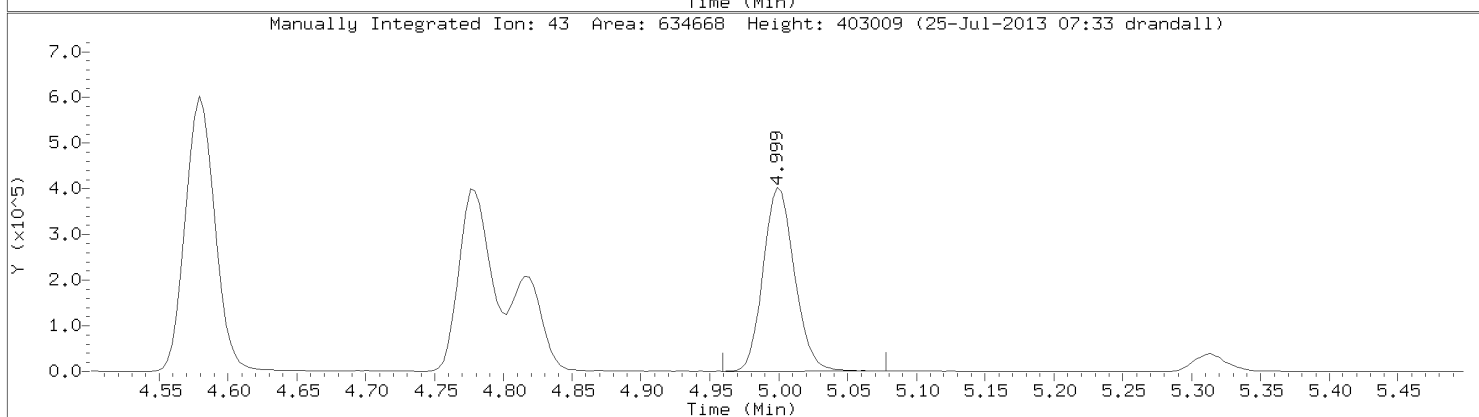
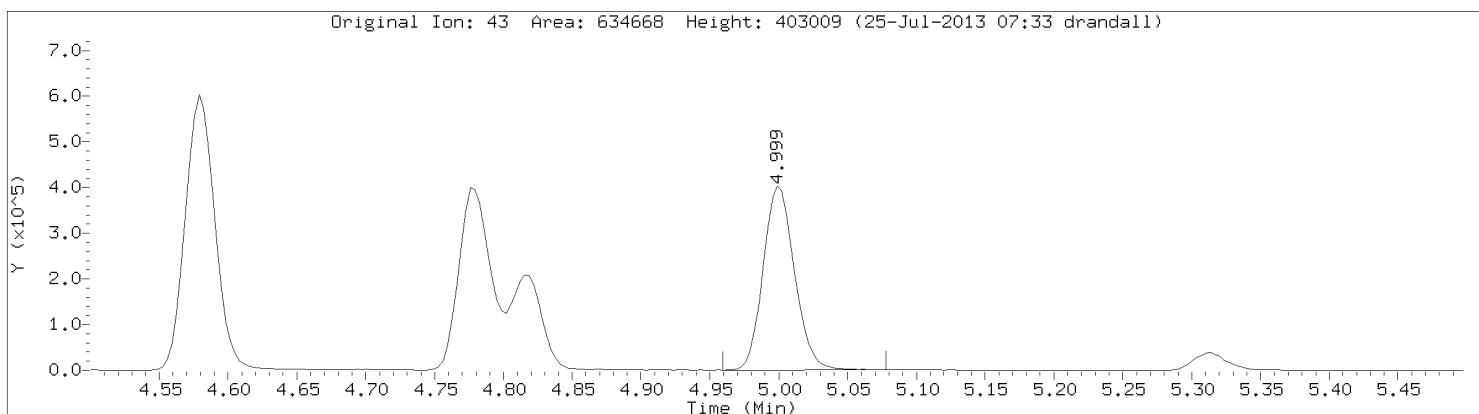


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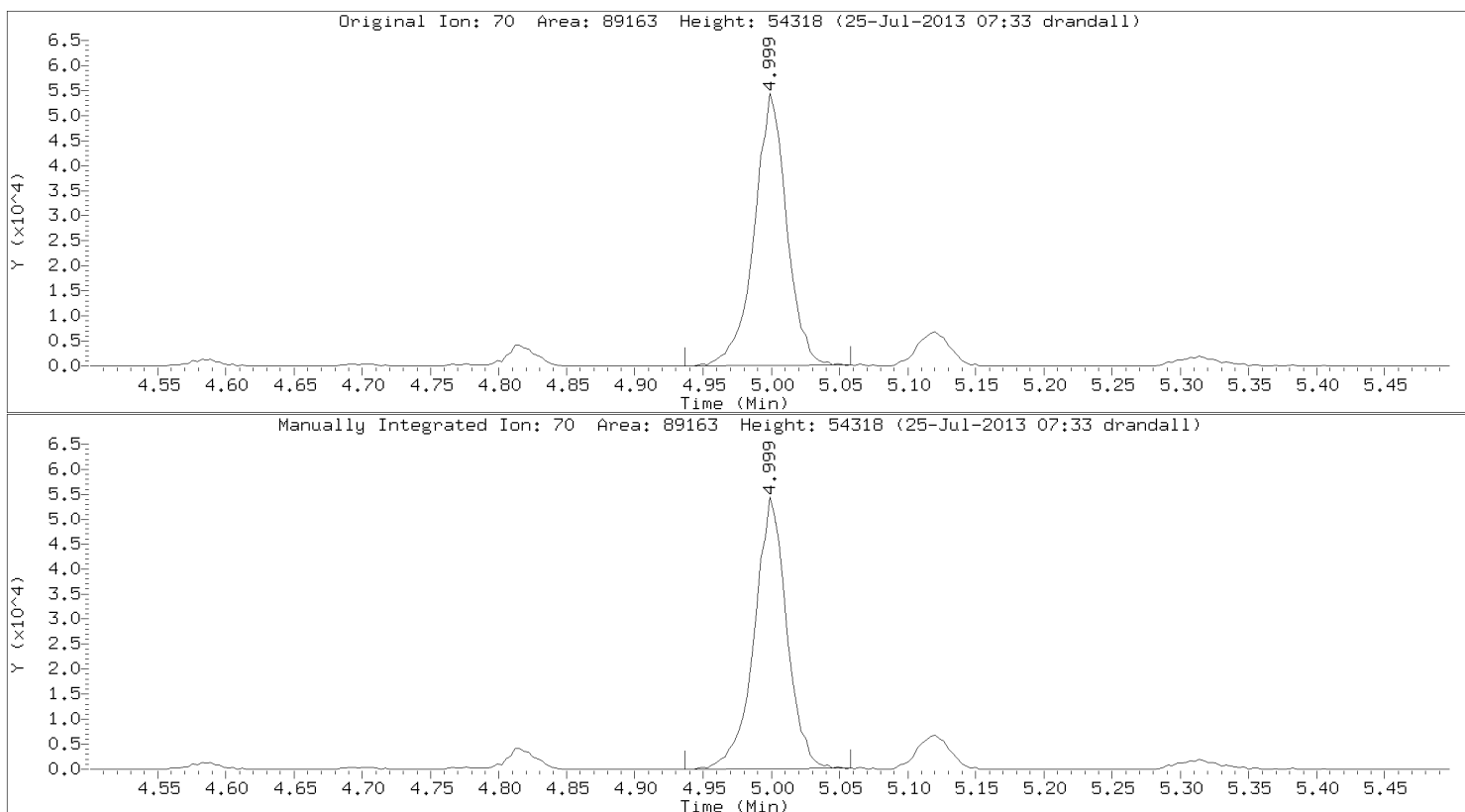


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Injection Date: 24-JUL-2013 16:06
Instrument: 10airD.i
Lab Sample ID: CAL5

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

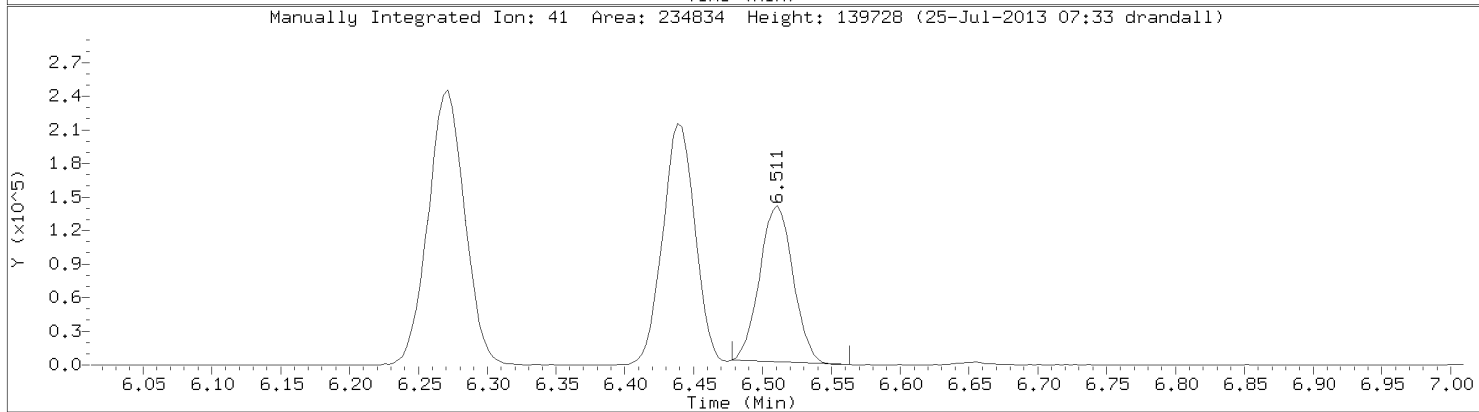
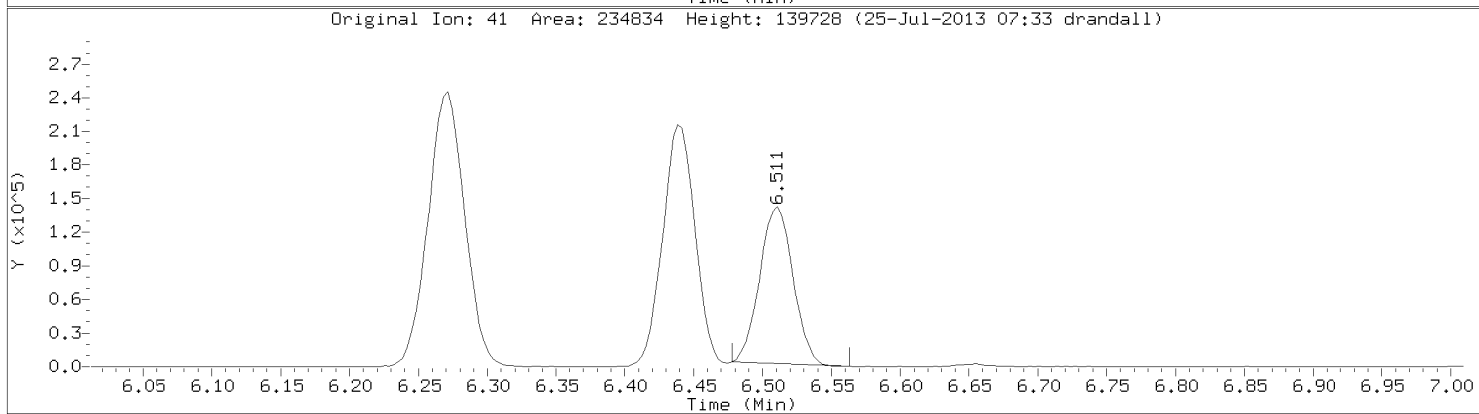
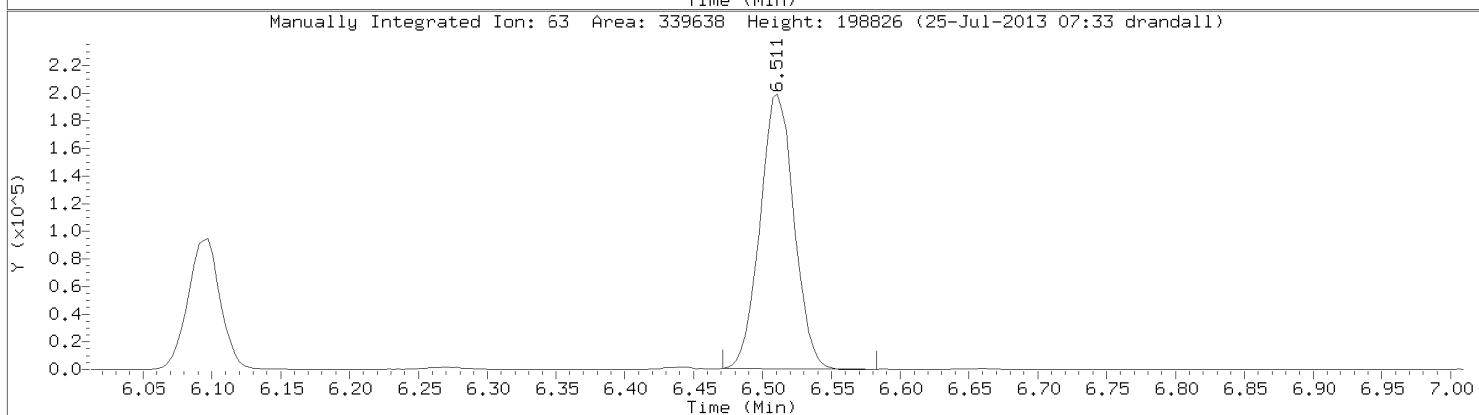
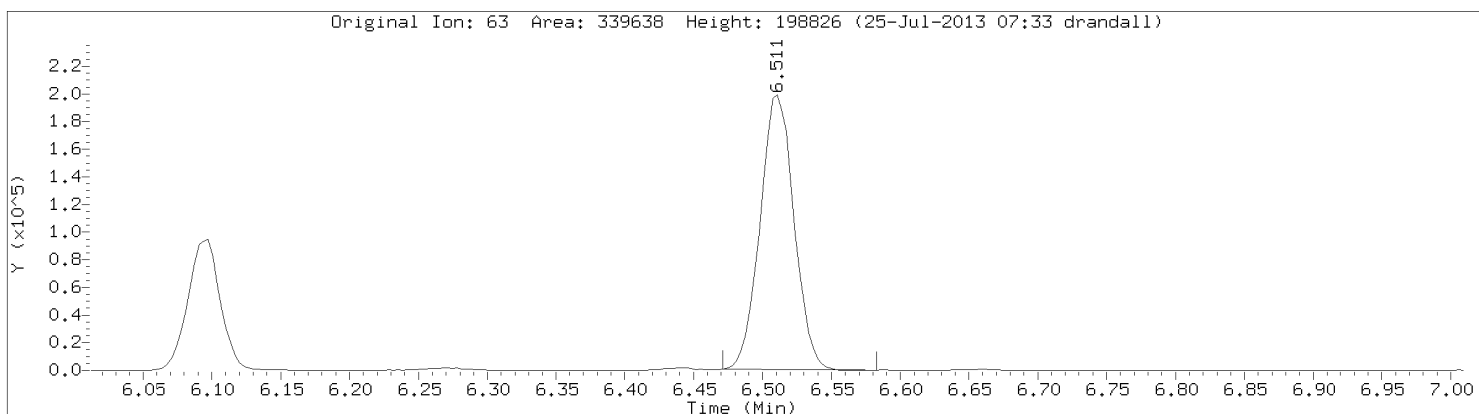


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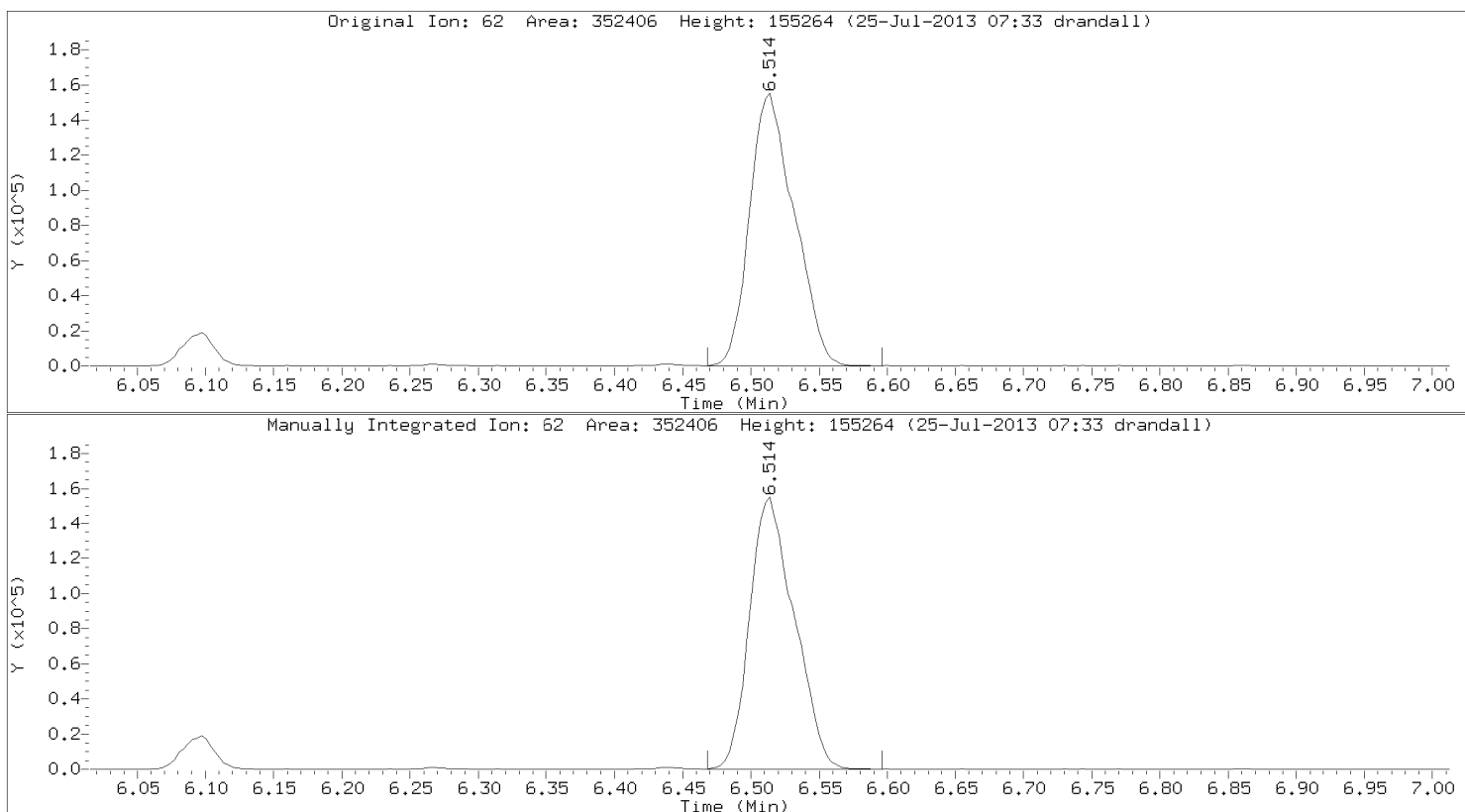


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Injection Date: 24-JUL-2013 16:06
Instrument: 10airD.i
Lab Sample ID: CAL5

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

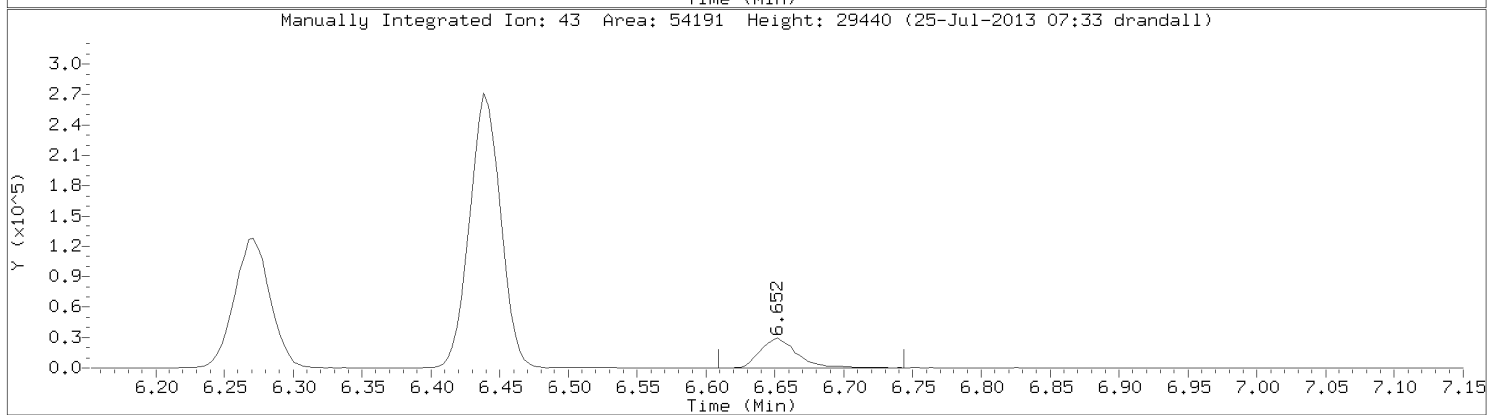
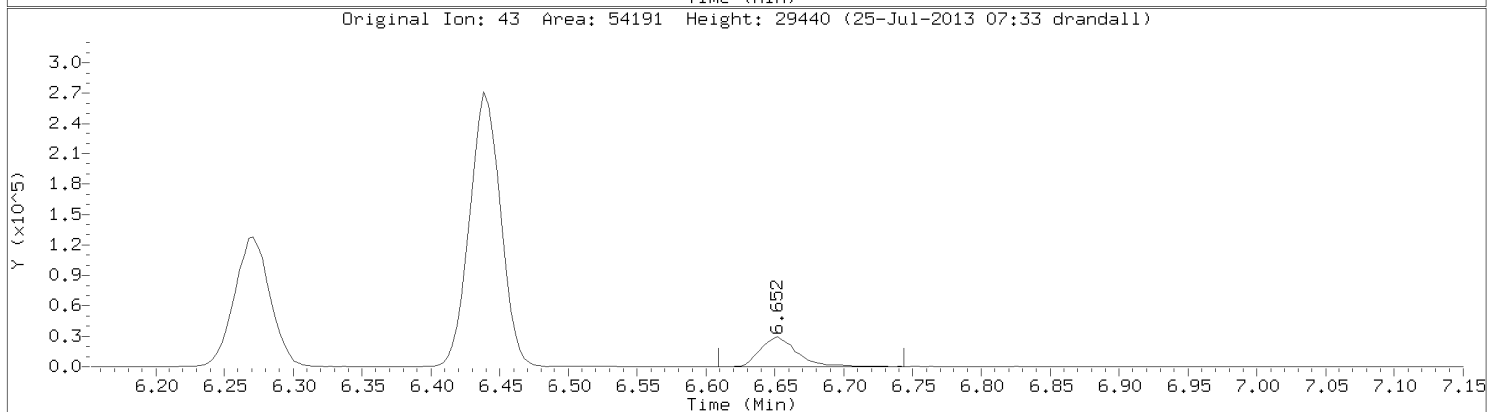
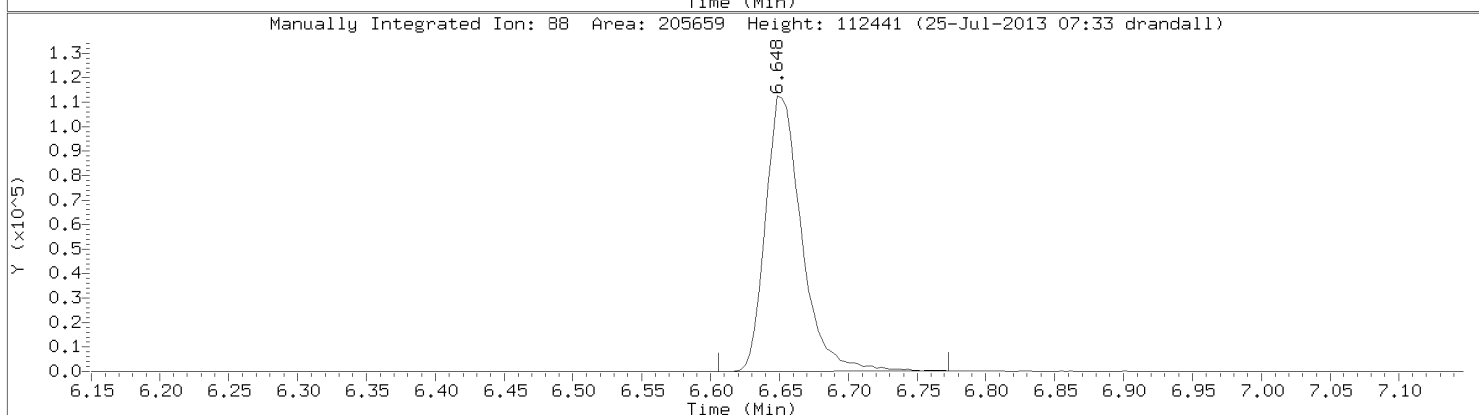
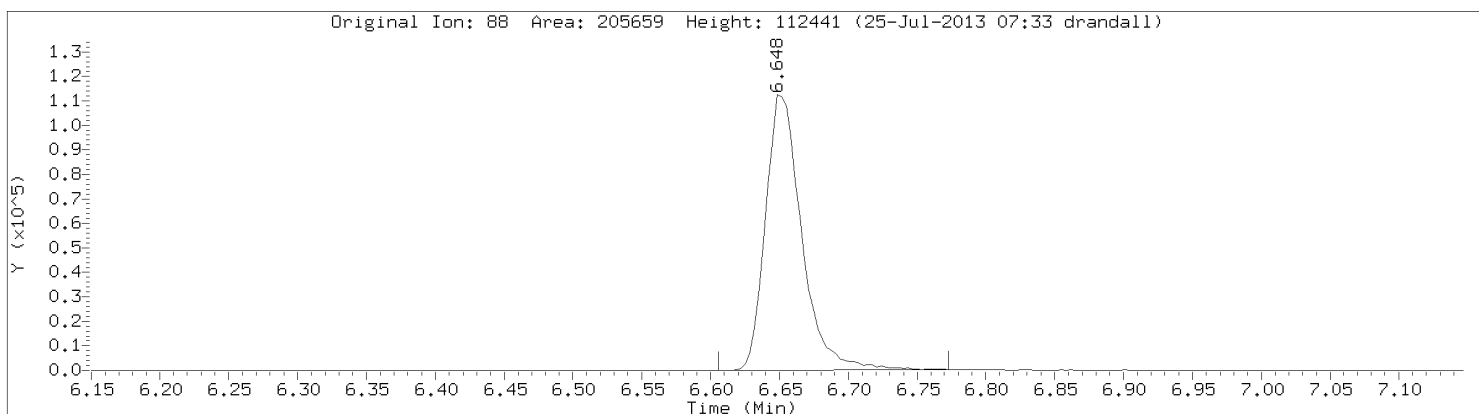


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Lab Sample ID: CAL5



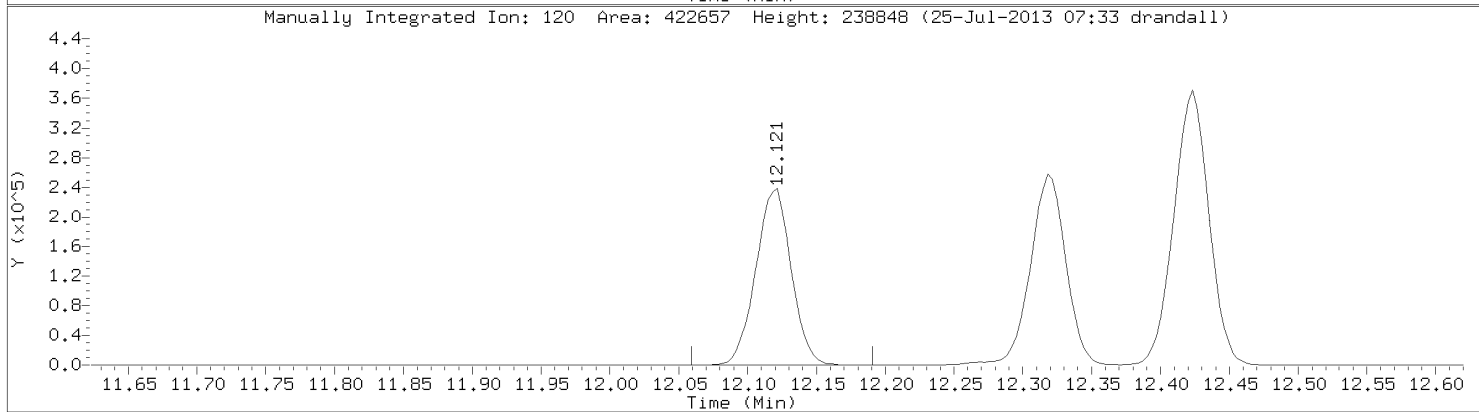
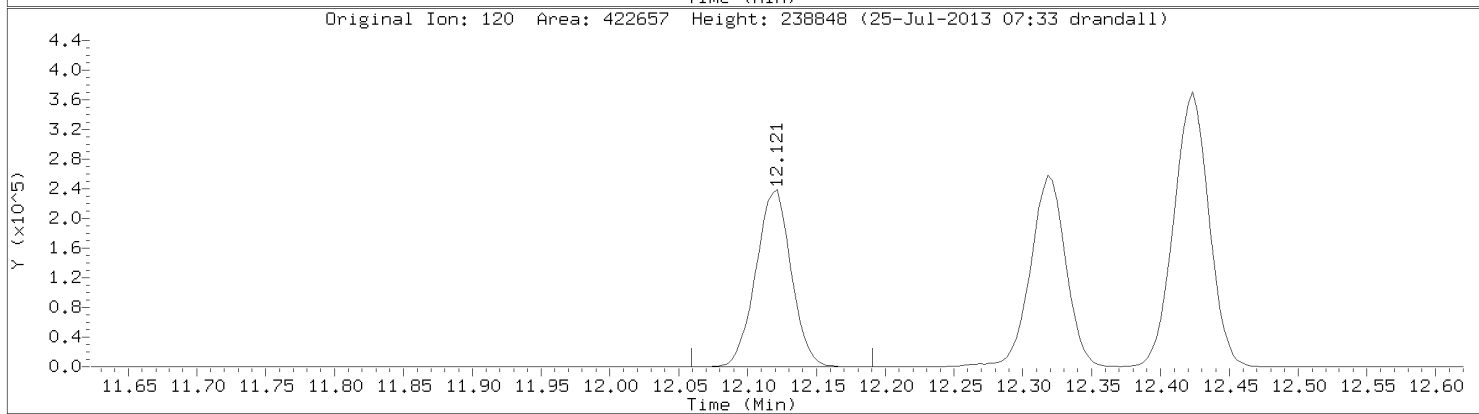
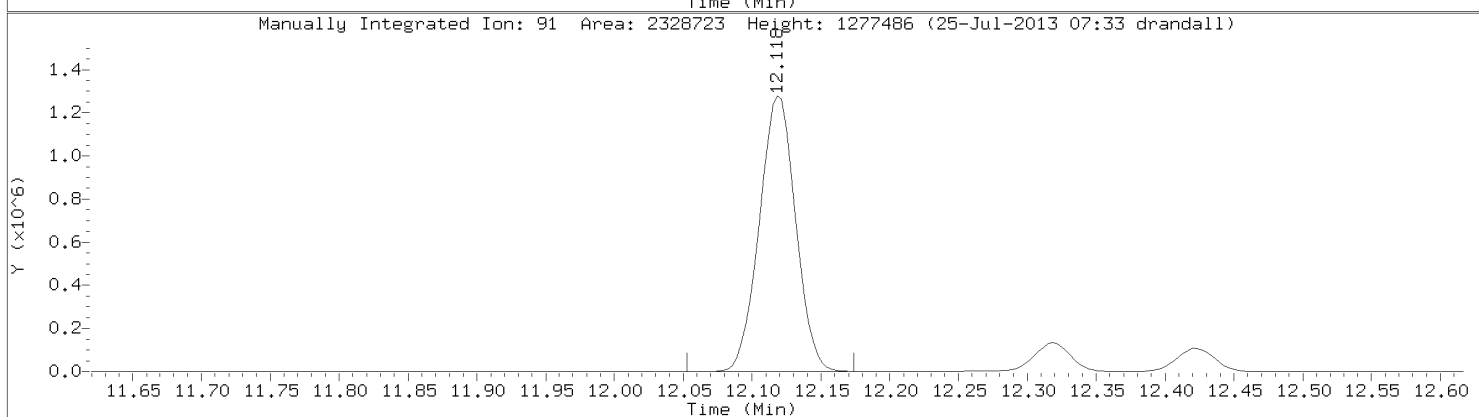
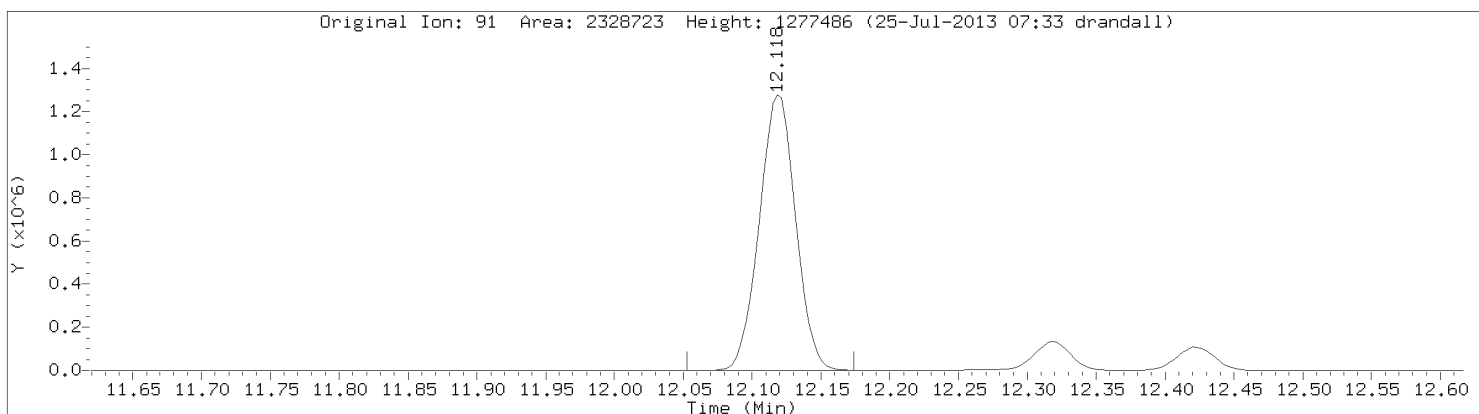
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Injection Date: 24-JUL-2013 16:06
Instrument: 10airD.i
Lab Sample ID: CAL5

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



Data File: \\192.168.10.12\chem\10airD.i\072413.b\20508.d
Injection Date: 24-JUL-2013 16:06
Instrument: 10airD.i
Lab Sample ID: CAL5

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



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072413.b\20509.d
 Lab Smp Id: CAL6
 Inj Date : 24-JUL-2013 16:39
 Operator : DR1 Inst ID: 10airD.i
 Smp Info :
 Misc Info :
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\072413.b\TO15_205-13.m
 Meth Date : 25-Jul-2013 07:24 drandall Quant Type: ISTD
 Cal Date : 24-JUL-2013 16:39 Cal File: 20509.d
 Als bottle: 9 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10AIRPC4

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 MASS	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ppbv)	ON-COL (ppbv)
1 Propylene	41		2.981	2.981	(0.489)	250479	30.0000	32.0 (A)
2 Dichlorodifluoromethane	85		3.008	3.008	(0.494)	2108870	30.0000	26.5
3 Dichlorotetrafluoroethane	85		3.106	3.106	(0.510)	1740618	30.0000	27.2
4 Chloromethane	50		3.106	3.106	(0.510)	506310	30.0000	27.8
5 Vinyl chloride	62		3.195	3.195	(0.524)	516487	30.0000	28.5
6 1,3-Butadiene	54		3.237	3.237	(0.531)	326126	30.0000	30.5 (A)
7 Bromomethane	94		3.391	3.391	(0.557)	667634	30.0000	29.2
8 Chloroethane	64		3.447	3.447	(0.566)	273343	30.0000	29.5 (M)
9 Ethanol	31		3.493	3.493	(0.573)	268455	30.0000	24.5
10 Vinyl Bromide	106		3.585	3.585	(0.588)	640635	30.0000	28.4
11 Acrolein	56		3.683	3.683	(0.604)	186644	30.0000	34.4 (A)
12 Trichlorofluoromethane	101		3.693	3.693	(0.606)	2173225	30.0000	25.1
13 Acetone	43		3.726	3.726	(0.611)	1040664	30.0000	24.0
14 Isopropyl Alcohol	45		3.755	3.755	(0.616)	776064	30.0000	27.2
15 1,1-Dichloroethene	61		3.978	3.978	(0.653)	1057221	30.0000	27.4
16 Acrylonitrile	53		3.985	3.985	(0.654)	391459	30.0000	33.4 (A)
17 Tert Butyl Alcohol	59		3.988	3.988	(0.655)	1233445	30.0000	27.1 (M)
18 Freon 113	101		4.031	4.031	(0.662)	1540502	30.0000	26.6
19 Methylene chloride	49		4.093	4.093	(0.672)	661558	30.0000	24.1
20 Allyl Chloride	76		4.106	4.106	(0.674)	295107	30.0000	32.0 (A)
21 Carbon Disulfide	76		4.224	4.224	(0.693)	1959368	30.0000	27.4
22 trans-1,2-dichloroethene	96		4.421	4.421	(0.726)	730991	30.0000	29.5
23 Methyl Tert Butyl Ether	73		4.457	4.457	(0.731)	1916359	30.0000	31.4 (AM)

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
24 Vinyl Acetate	43		4.579	4.579	(0.751)	1398540	30.0000	33.4 (A)	
25 1,1-Dichloroethane	63		4.582	4.582	(0.752)	1214048	30.0000	28.2	
\$ 26 Hexane-d14 (S)	66		4.700	4.700	(0.771)	306707	10.0000	9.70	
27 Methyl Ethyl Ketone	72		4.779	4.779	(0.784)	315011	30.0000	31.3 (AM)	
28 n-Hexane	57		4.818	4.818	(0.791)	826689	30.0000	28.8 (M)	
29 cis-1,2-Dichloroethene	96		4.979	4.979	(0.817)	707334	30.0000	34.4 (A)	
30 Ethyl Acetate	43		4.998	4.998	(0.820)	1019802	30.0000	36.1 (AM)	
31 Chloroform	83		5.120	5.120	(0.840)	1638710	30.0000	30.6 (A)	
32 Tetrahydrofuran	42		5.310	5.310	(0.871)	406611	30.0000	42.5 (A)	
33 1,1,1-Trichloroethane	97		5.598	5.598	(0.919)	1790721	30.0000	31.2 (A)	
34 1,2-Dichloroethane	62		5.618	5.618	(0.922)	1201020	30.0000	30.2 (A)	
35 Benzene	78		5.887	5.887	(0.966)	1855595	30.0000	37.2 (A)	
36 Carbon tetrachloride	117		5.907	5.907	(0.969)	1802120	30.0000	29.2	
37 Cyclohexane	56		5.910	5.910	(0.970)	704383	30.0000	40.5 (A)	
* 38 1,4-Difluorobenzene	114		6.094	6.094	(1.000)	654995	10.0000		
39 2,2,4-Trimethylpentane	57		6.271	6.271	(1.029)	2147818	30.0000	38.7 (A)	
40 Heptane	43		6.441	6.441	(1.057)	703828	30.0000	41.3 (A)	
41 1,2-Dichloropropane	63		6.513	6.513	(1.069)	561074	30.0000	36.4 (AM)	
42 Trichloroethene	130		6.533	6.533	(1.072)	772238	30.0000	39.7 (A)	
43 1,4-Dioxane	88		6.651	6.651	(1.091)	325591	30.0000	48.5 (AM)	
44 Bromodichloromethane	83		6.654	6.654	(1.092)	1833083	30.0000	33.1 (A)	
45 Methyl Isobutyl Ketone	43		7.228	7.228	(1.186)	1009496	30.0000	41.7 (A)	
46 cis-1,3-Dichloropropene	75		7.281	7.281	(1.195)	1040841	30.0000	39.8 (A)	
47 trans-1,3-Dichloropropene	75		7.773	7.773	(1.276)	1194806	30.0000	43.8 (A)	
\$ 48 Toluene-d8 (S)	98		7.848	7.848	(1.288)	483387	10.0000	10.6	
49 Toluene	91		7.940	7.940	(1.303)	2421853	30.0000	39.3 (A)	
50 1,1,2-Trichloroethane	97		7.950	7.950	(1.305)	838093	30.0000	37.1 (A)	
51 Methyl Butyl Ketone	43		8.245	8.245	(0.851)	998198	30.0000	42.7 (A)	
52 Dibromochloromethane	129		8.560	8.560	(0.883)	1468306	30.0000	34.0 (A)	
53 1,2-Dibromoethane	107		8.828	8.828	(0.911)	1277318	30.0000	35.9 (A)	
54 Tetrachloroethene	166		8.917	8.917	(0.920)	1219067	30.0000	37.0 (A)	
* 55 Chlorobenzene - d5	117		9.691	9.691	(1.000)	254595	10.0000		
56 Chlorobenzene	112		9.740	9.740	(1.005)	1594094	30.0000	34.6 (A)	
57 Ethyl Benzene	91		10.039	10.039	(1.036)	3011647	30.0000	41.0 (A)	
58 m&p-Xylene	91		10.212	10.212	(1.054)	2396346	30.0000	41.0 (A)	
59 Bromoform	173		10.658	10.658	(1.100)	1614133	30.0000	36.0 (A)	
60 Styrene	104		10.708	10.708	(1.105)	1618524	30.0000	46.2 (A)	
61 o-Xylene	91		10.783	10.783	(1.113)	2464397	30.0000	39.5 (A)	
62 1,1,2,2-Tetrachloroethane	83		11.094	11.094	(1.145)	1439646	30.0000	33.7 (A)	
63 Isopropylbenzene	105		11.458	11.458	(1.182)	3146350	30.0000	36.3 (A)	
64 N-Propylbenzene	91		12.121	12.121	(1.251)	3774204	30.0000	42.3 (AM)	
65 4-Ethyltoluene	105		12.321	12.321	(1.271)	2938195	30.0000	43.5 (A)	
66 1,3,5-Trimethylbenzene	105		12.426	12.426	(1.282)	2587970	30.0000	41.9 (A)	
67 1,2,4-Trimethylbenzene	105		13.019	13.019	(1.343)	2499072	30.0000	46.5 (A)	
68 1,3-Dichlorobenzene	146		13.374	13.374	(1.380)	1545425	30.0000	41.5 (A)	
69 Sec- Butylbenzene	105		13.403	13.403	(1.383)	3461034	30.0000	43.3 (A)	
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.459	13.459	(1.389)	107808	10.0000	10.5 (M)	
71 Benzyl Chloride	91		13.485	13.485	(1.391)	2162623	30.0000	41.2 (A)	
72 1,4-Dichlorobenzene	146		13.508	13.508	(1.394)	1513446	30.0000	37.4 (A)	
73 1,2-Dichlorobenzene	146		14.043	14.043	(1.449)	1275151	30.0000	40.7 (A)	
74 N-Butylbenzene	91		14.325	14.325	(1.478)	2639238	30.0000	43.8 (A)	
75 1,2,4-Trichlorobenzene	180		16.682	16.682	(1.721)	940377	30.0000	44.7 (A)	
76 Naphthalene	128		16.860	16.860	(1.740)	1458422	30.0000	50.3 (A)	
77 Hexachlorobutadiene	225		17.237	17.237	(1.779)	1000076	30.0000	35.5 (A)	

Data File: \\192.168.10.12\chem\10airD.i\072413.b\20509.d
Report Date: 25-Jul-2013 07:35

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\072413.b\20509.d
Report Date: 25-Jul-2013 07:35

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 20509.d
Lab Smp Id: CAL6
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\072413.b\TO15_205-13.m
Misc Info:

Calibration Date: 24-JUL-2013
Calibration Time: 15:36

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	654995	12.97
55 Chlorobenzene - d	221404	132842	309966	254595	14.99

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	0.05
55 Chlorobenzene - d	9.69	9.36	10.02	9.69	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\072413.b\20509.D

Date : 24-JUL-2013 16:39

Client ID:

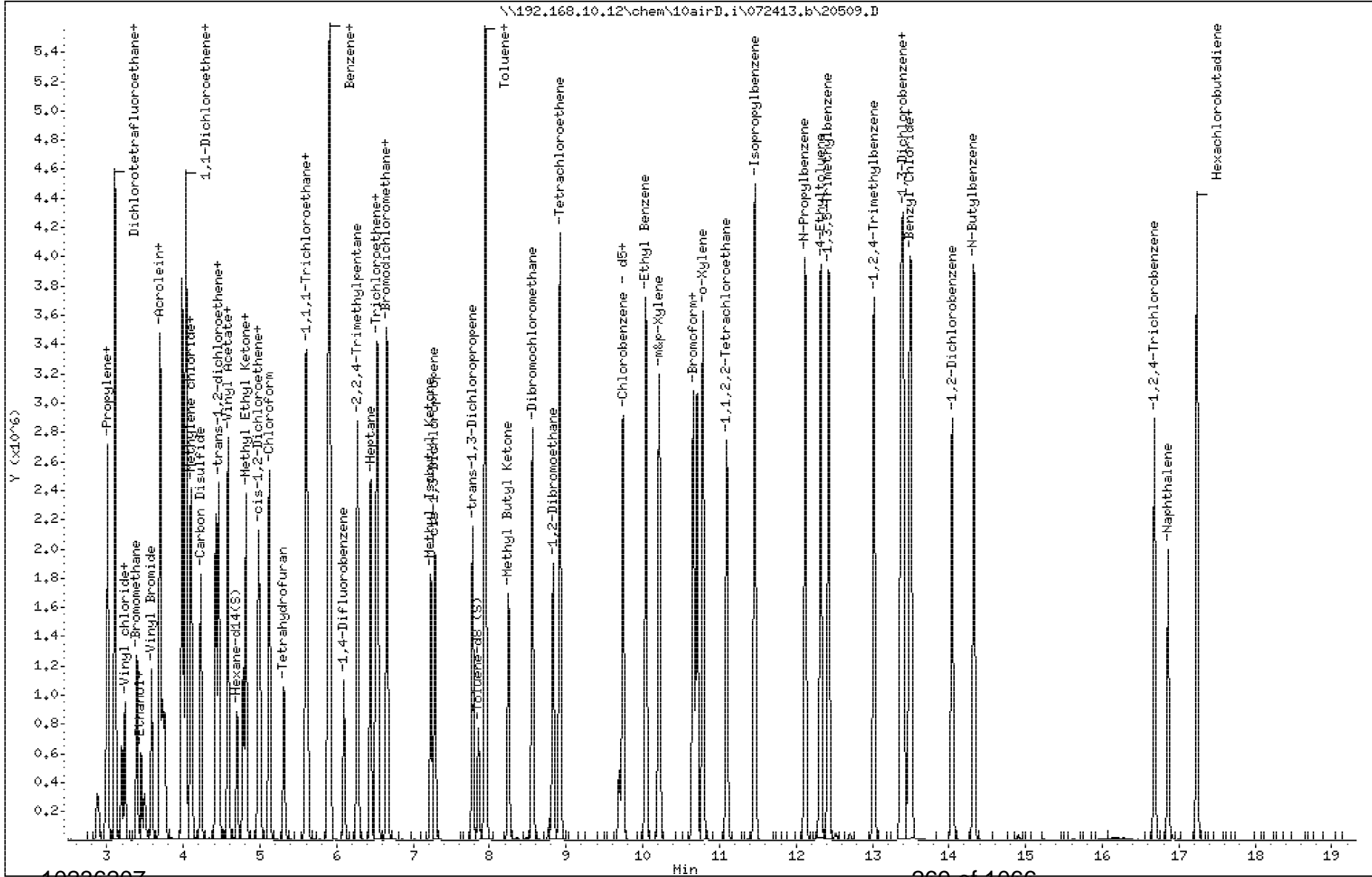
Instrument: 10airD.i

Sample Info:

Operator: DR1

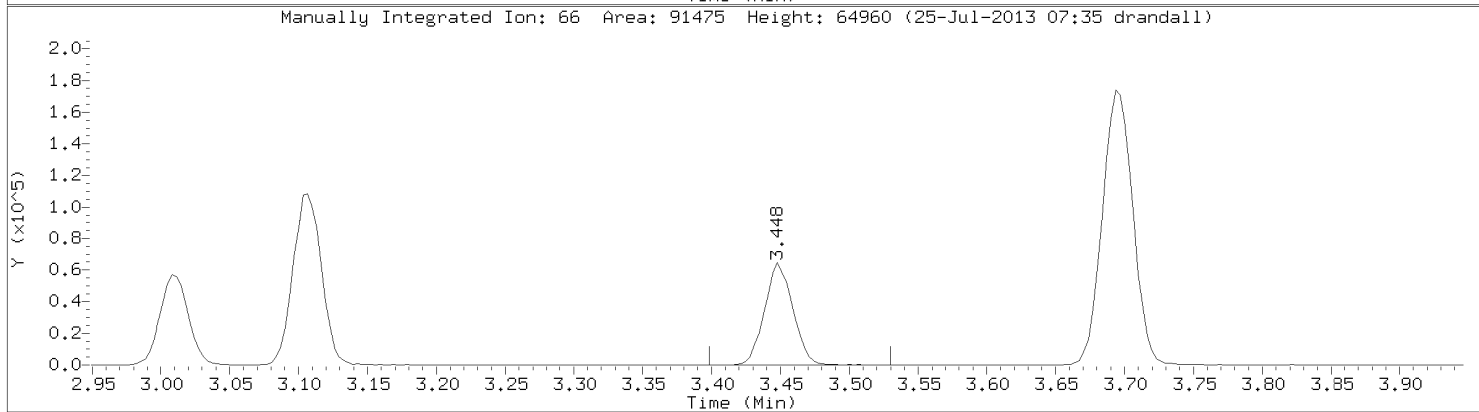
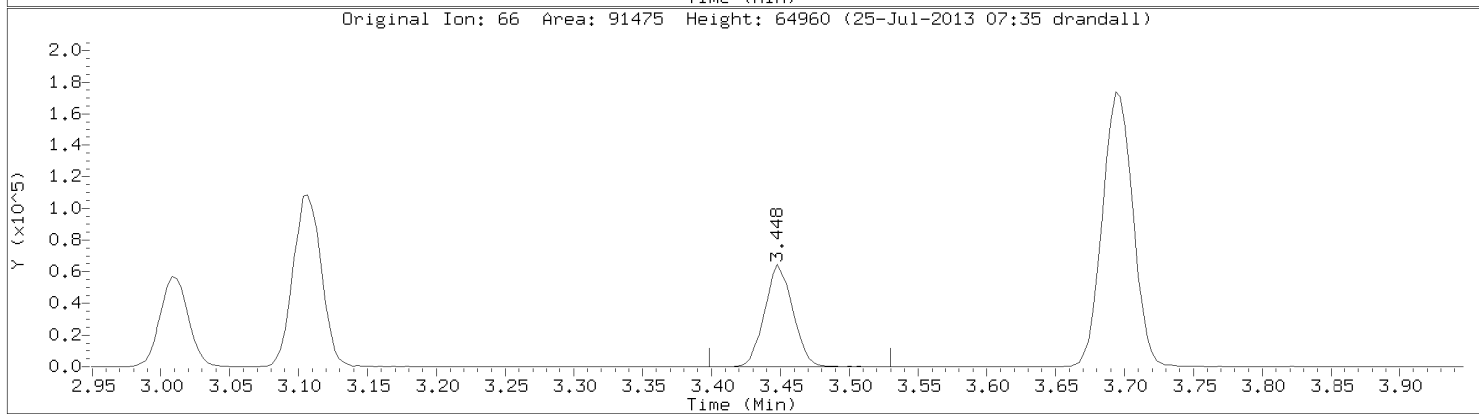
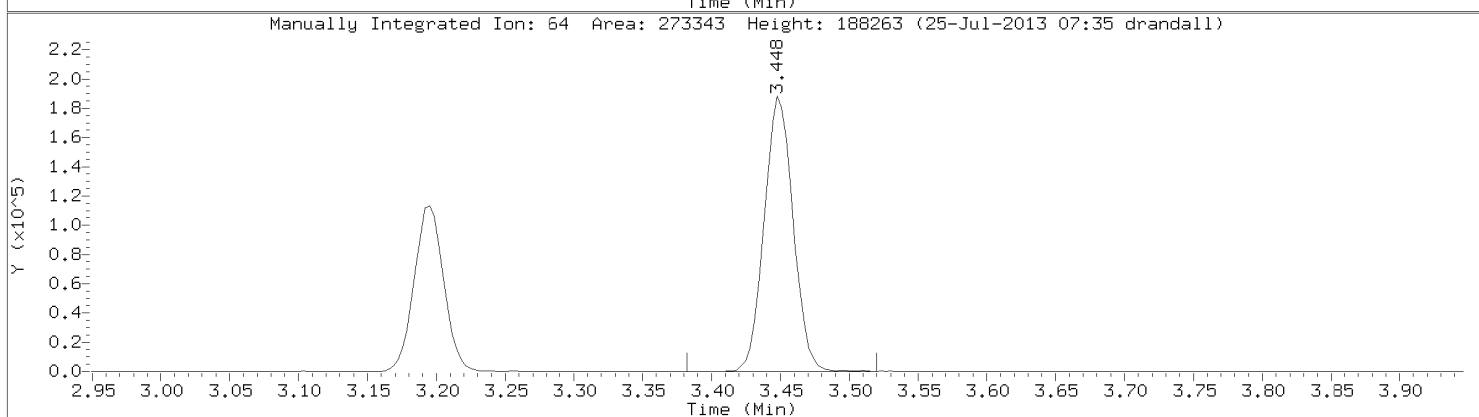
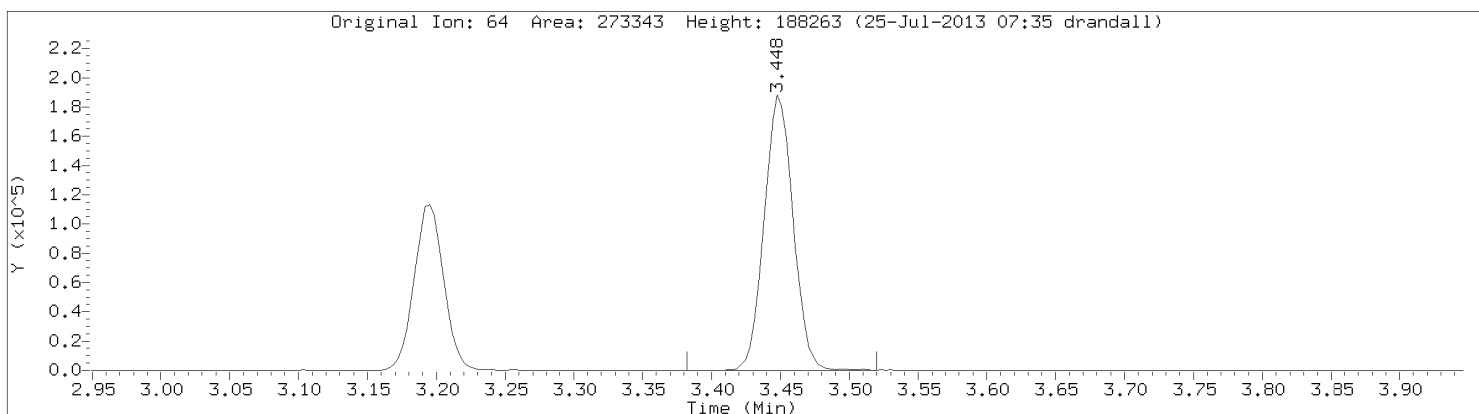
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Column diameter: 0.32



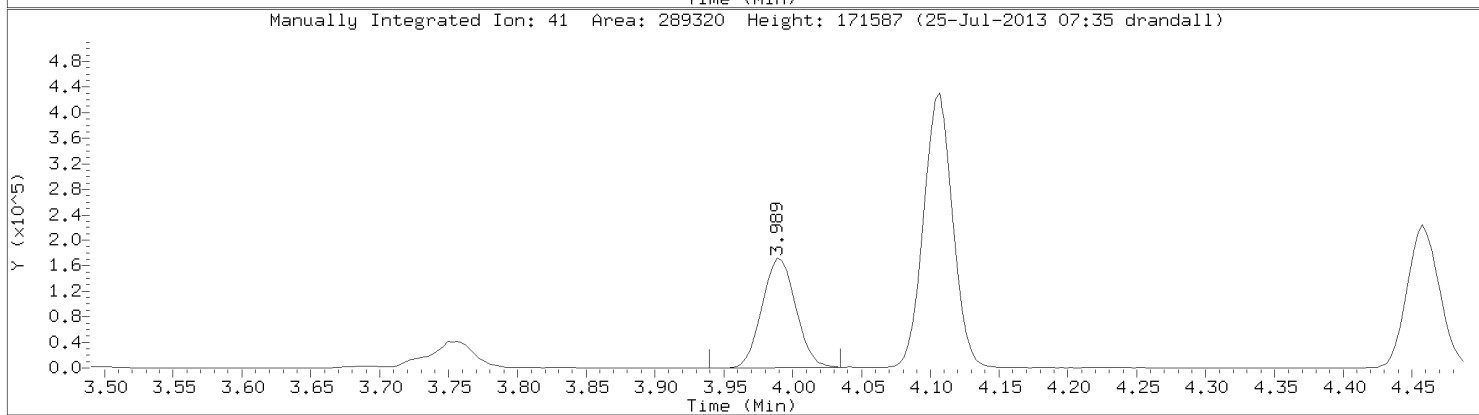
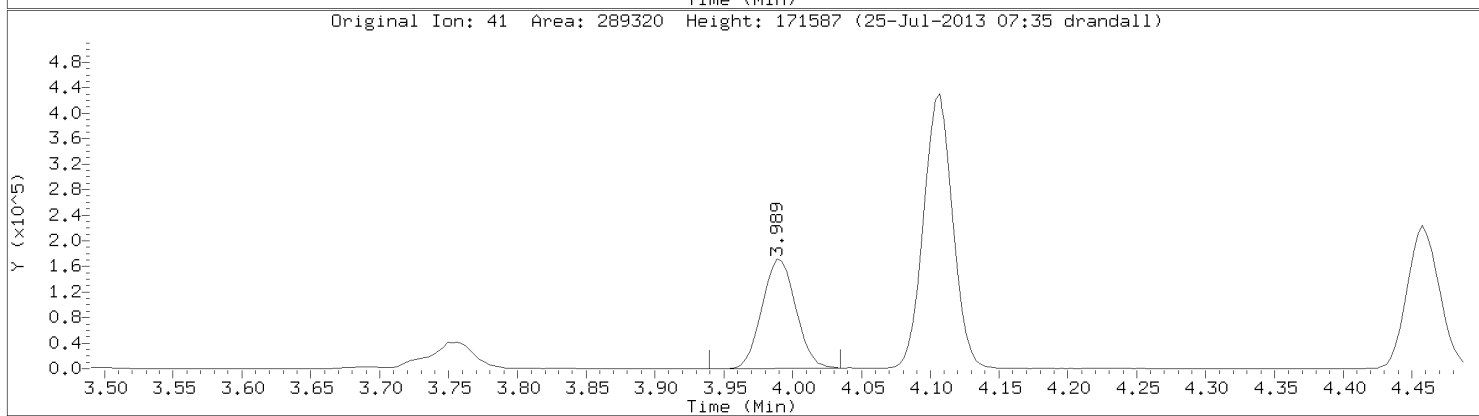
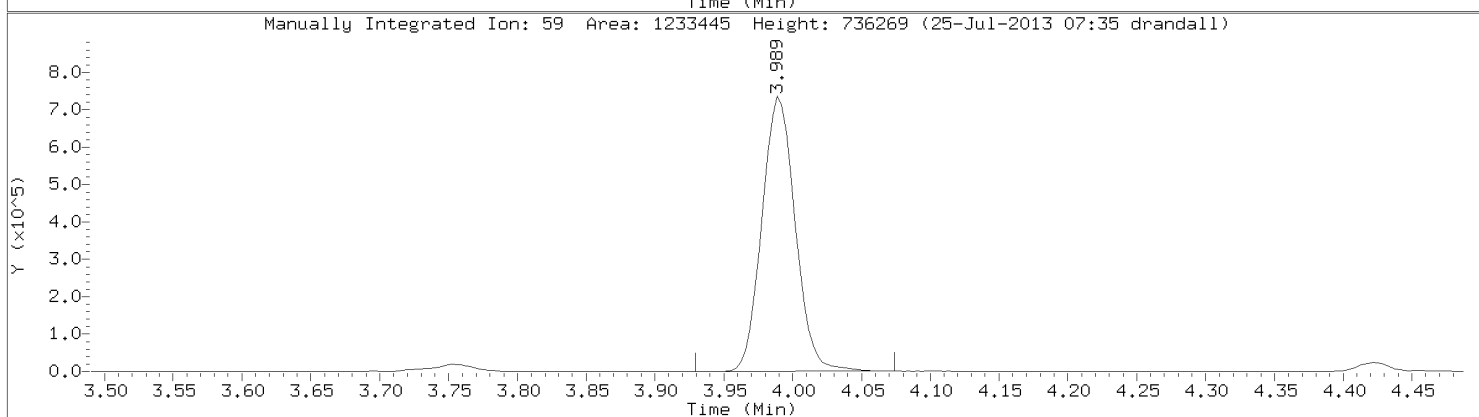
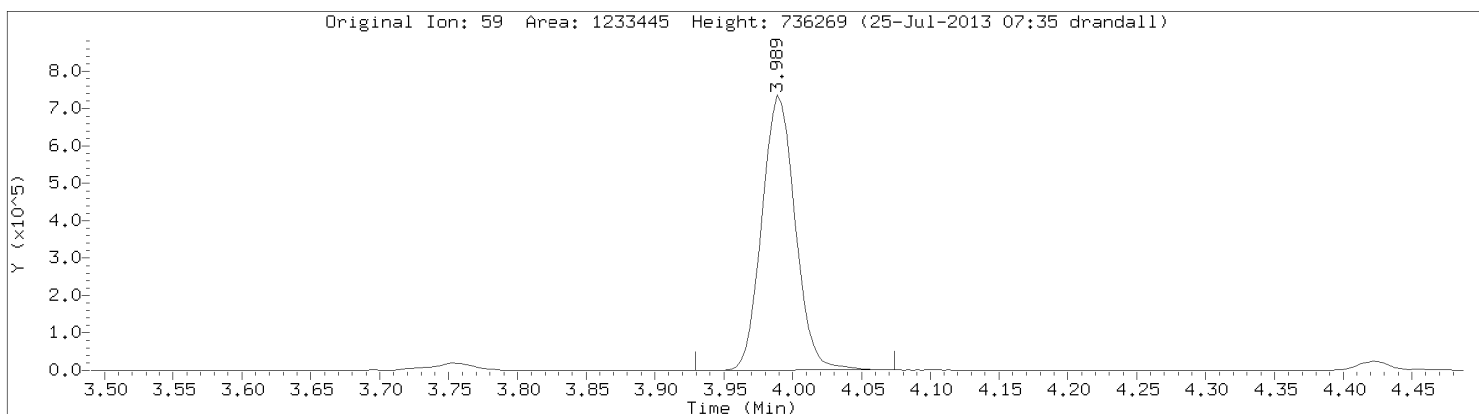
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Injection Date: 24-JUL-2013 16:39
Instrument: 10airD.i
Lab Sample ID: CAL6

Compound: Chloroethane
CAS Number: 75-00-3



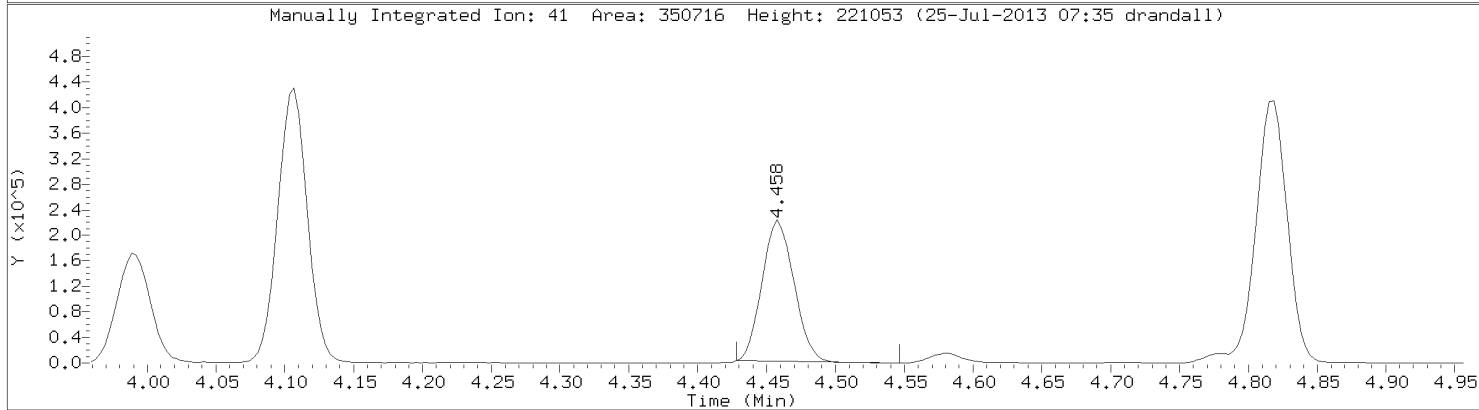
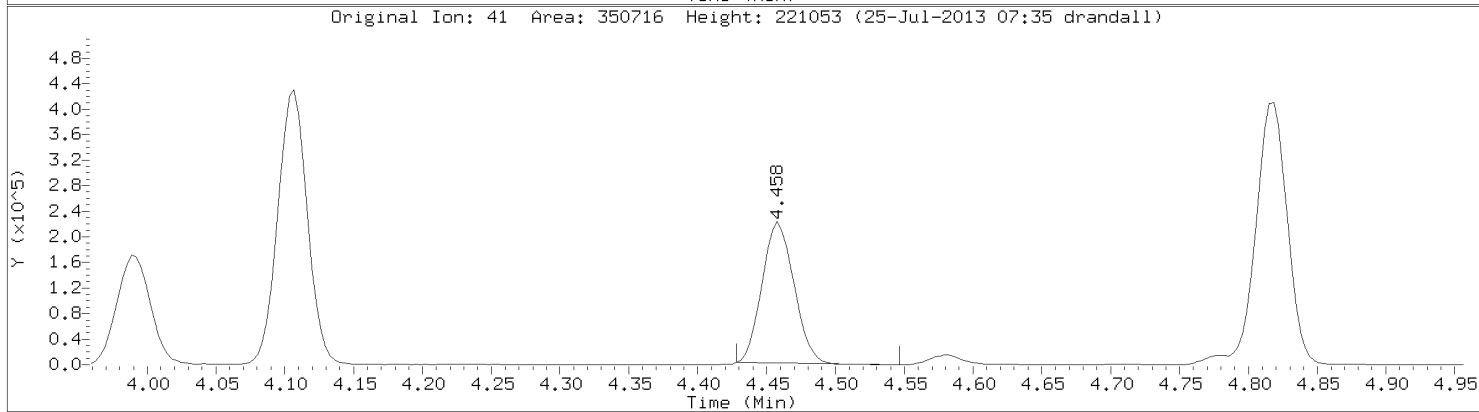
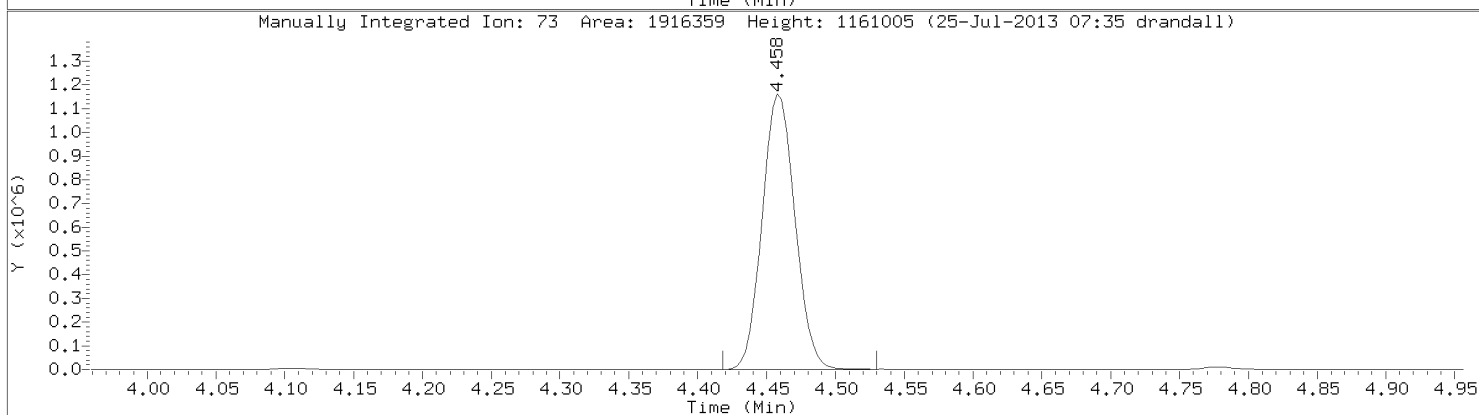
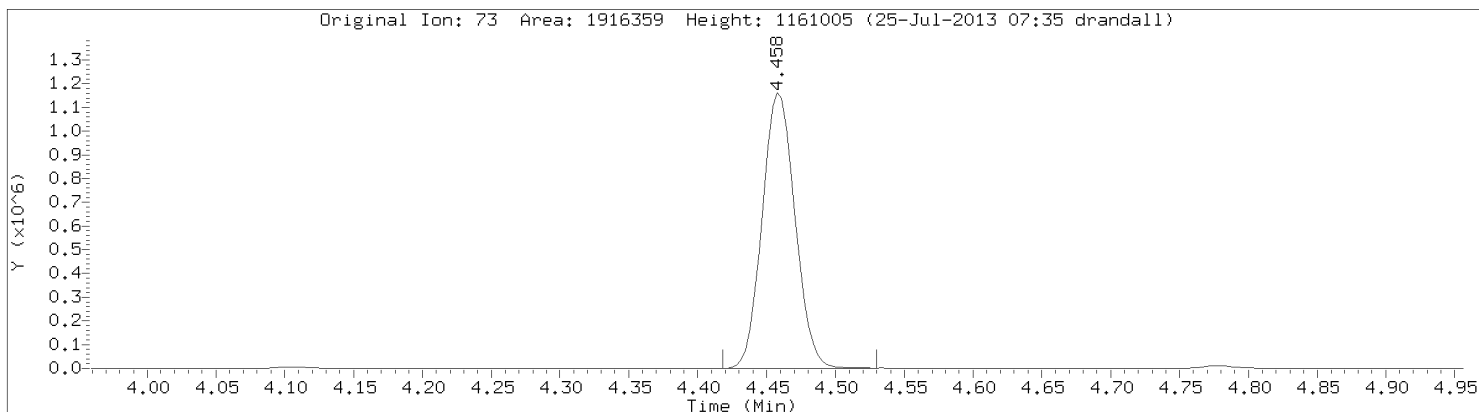
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Injection Date: 24-JUL-2013 16:39
Instrument: 10airD.i
Lab Sample ID: CAL6

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



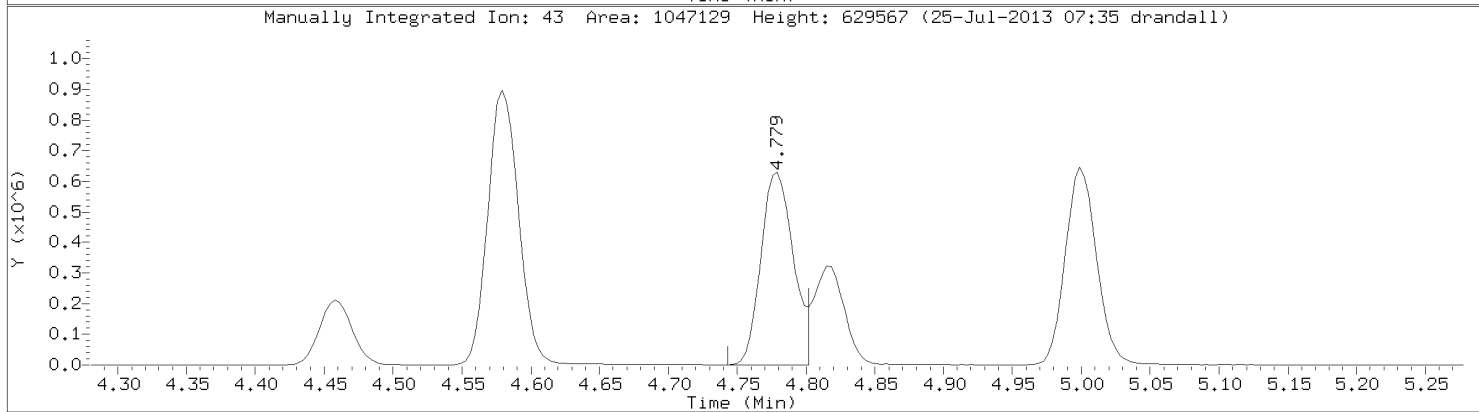
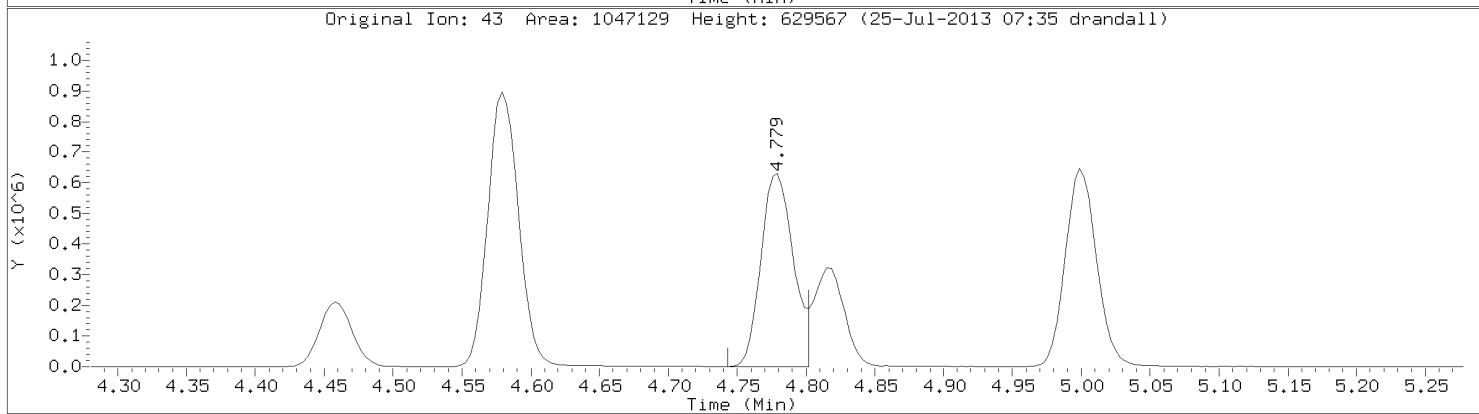
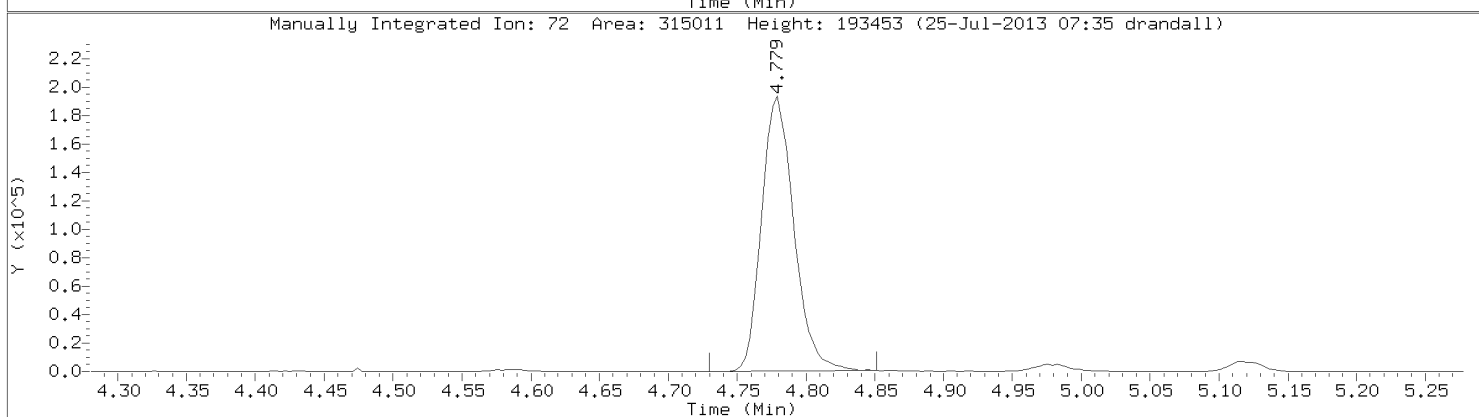
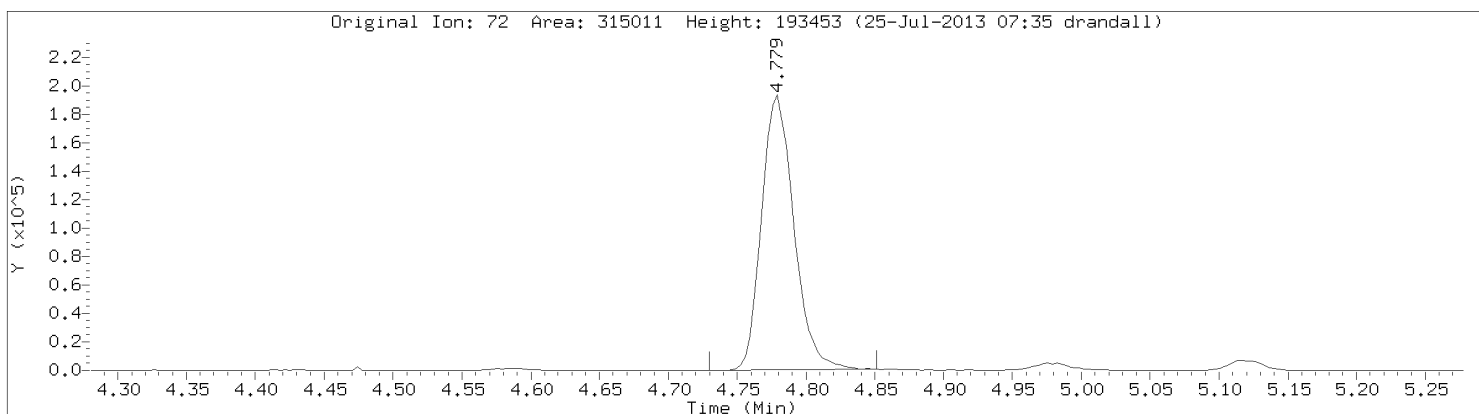
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Instrument: 10airD.i
Lab Sample ID: CAL6

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



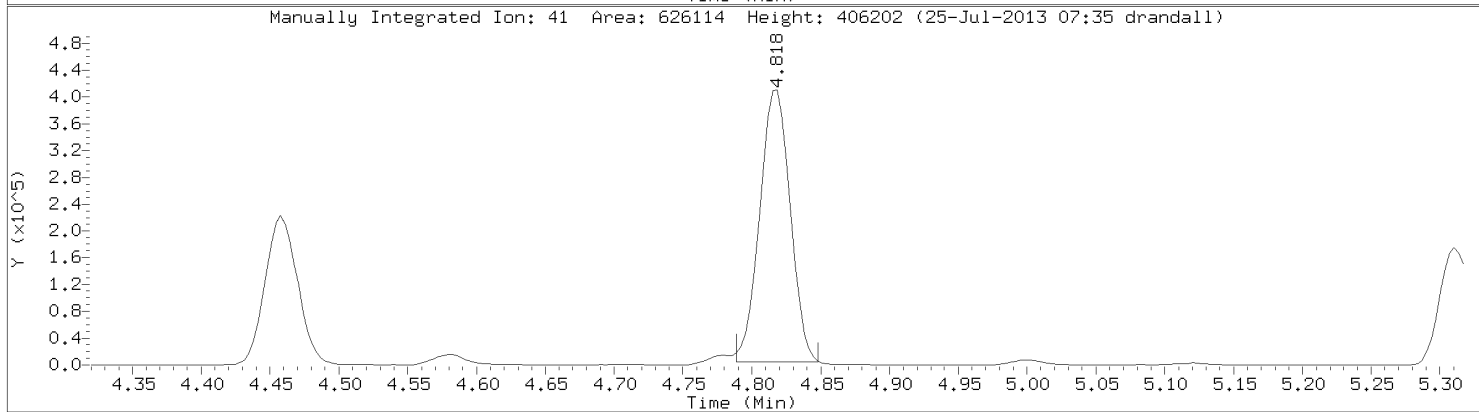
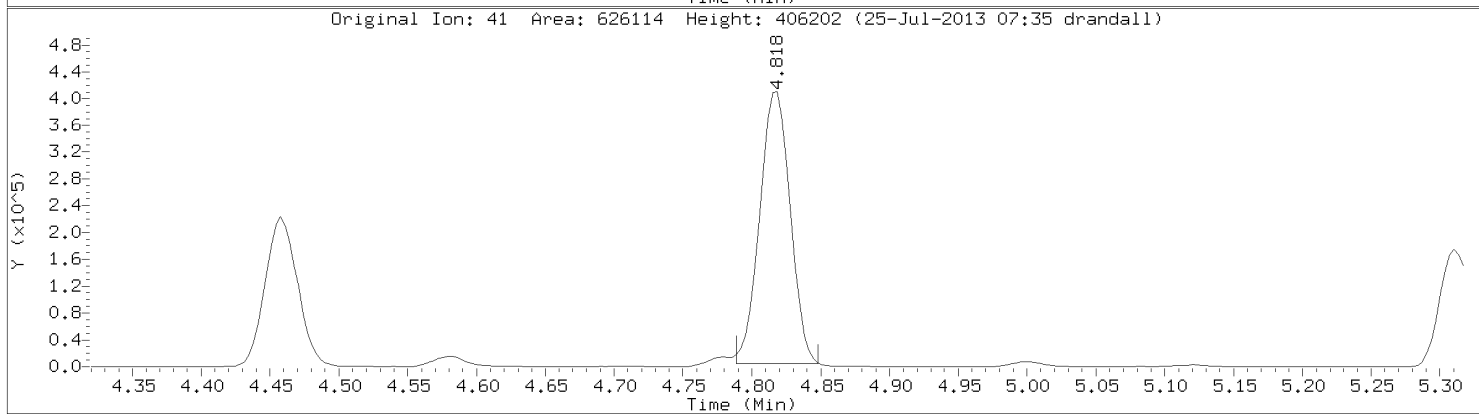
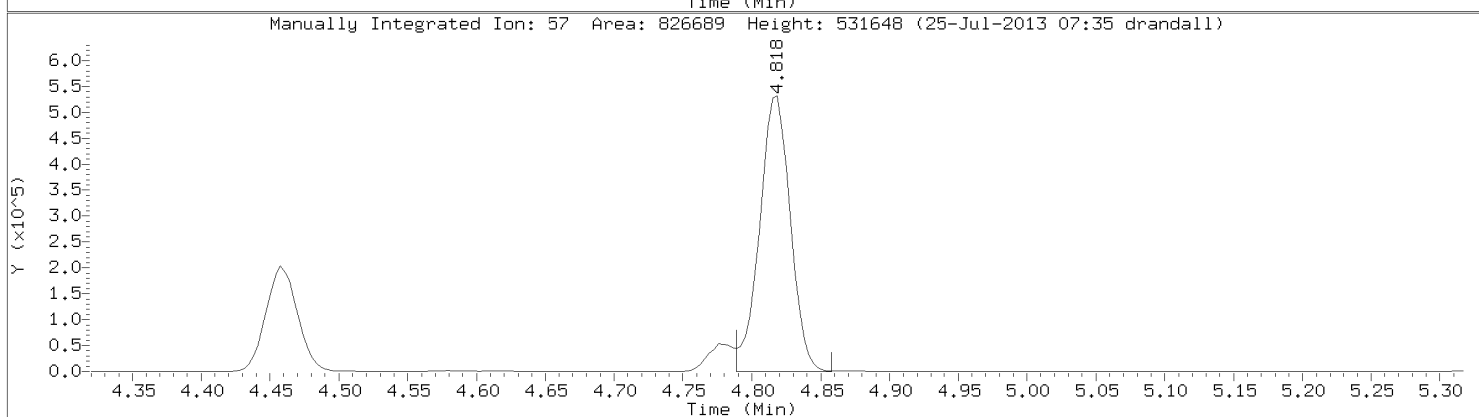
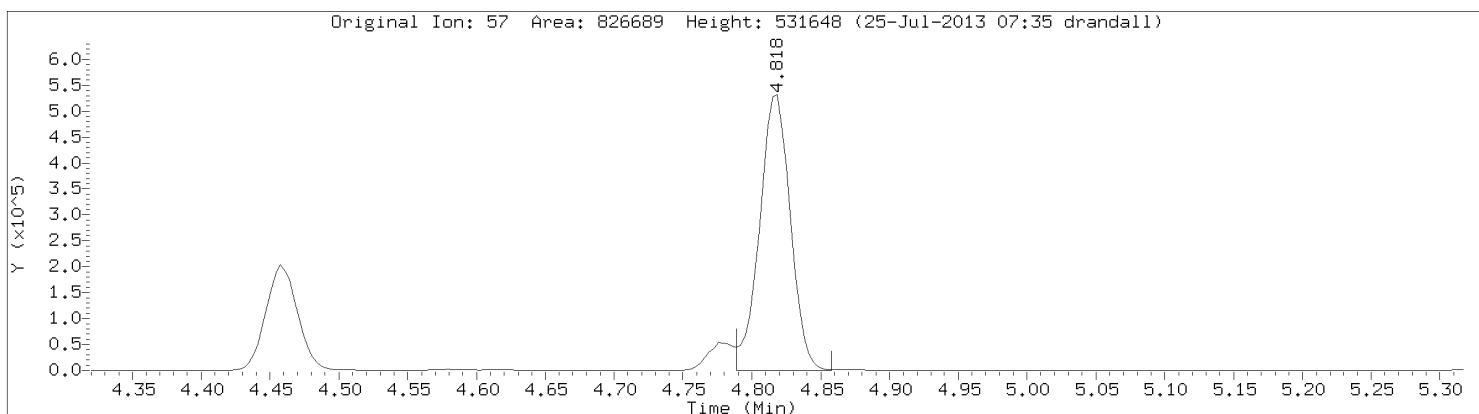
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Injection Date: 24-JUL-2013 16:39
Instrument: 10airD.i
Lab Sample ID: CAL6

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

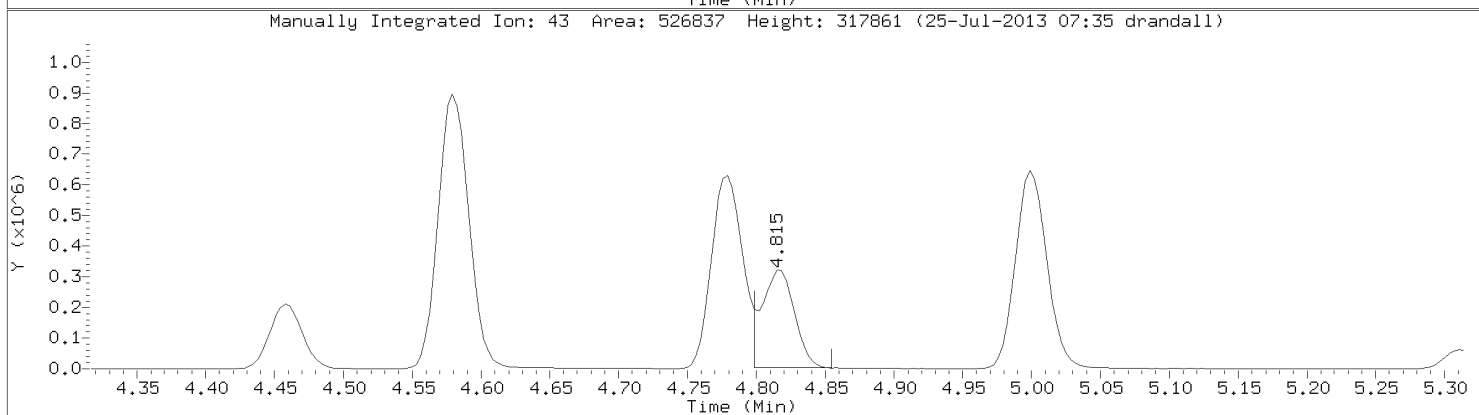
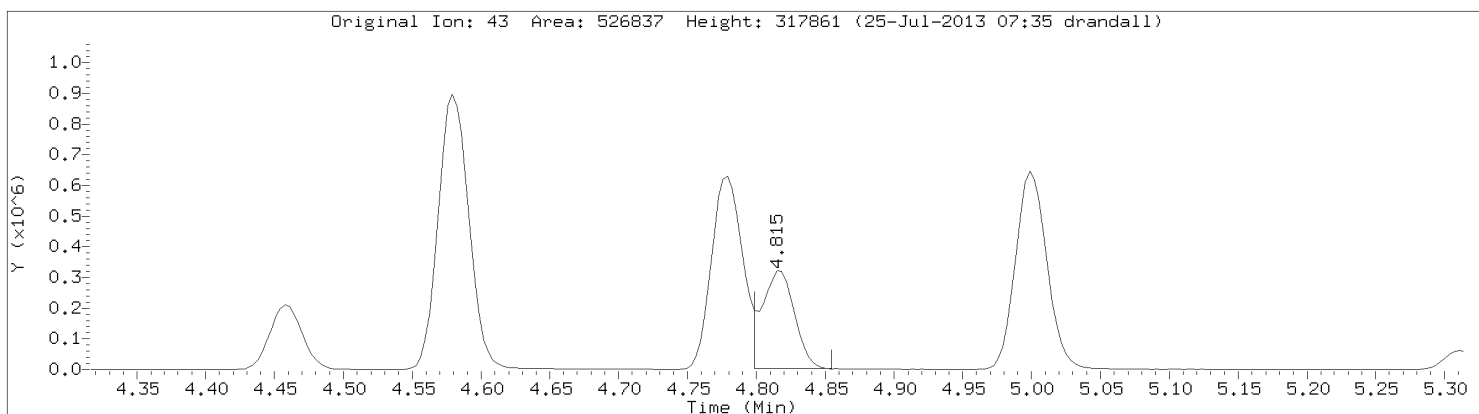


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Injection Date: 24-JUL-2013 16:39
Instrument: 10airD.i
Lab Sample ID: CAL6

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

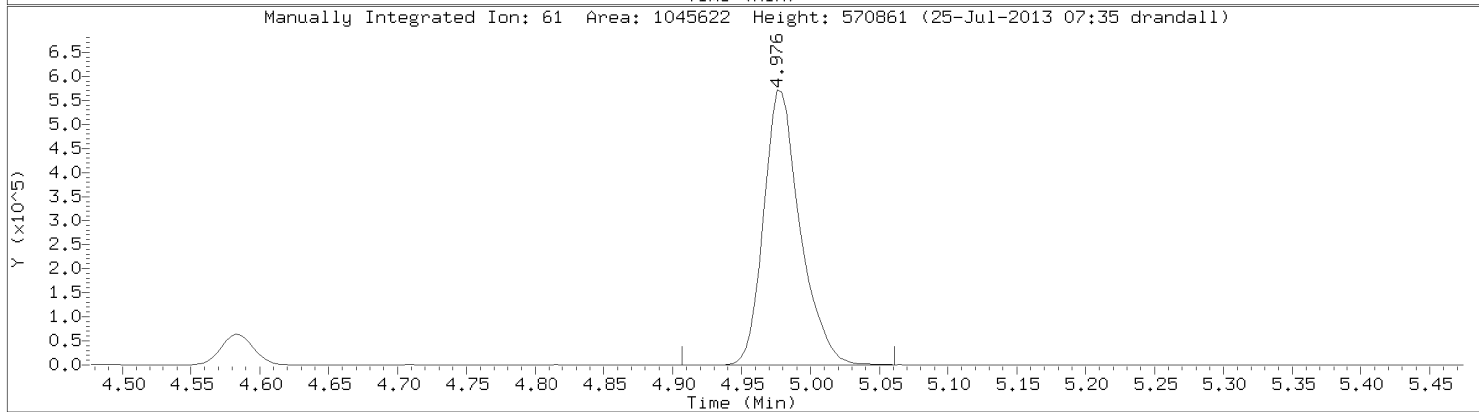
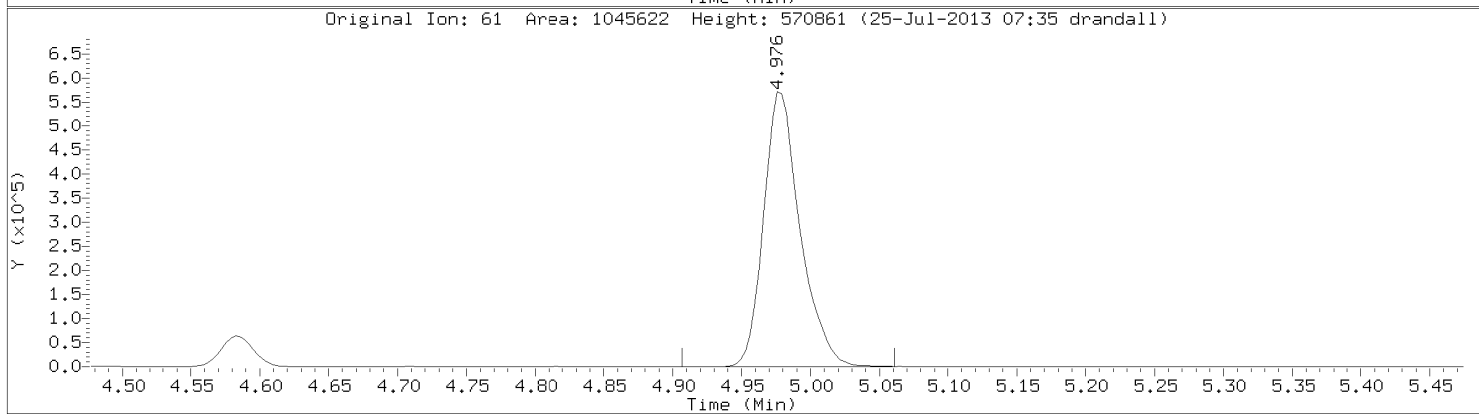
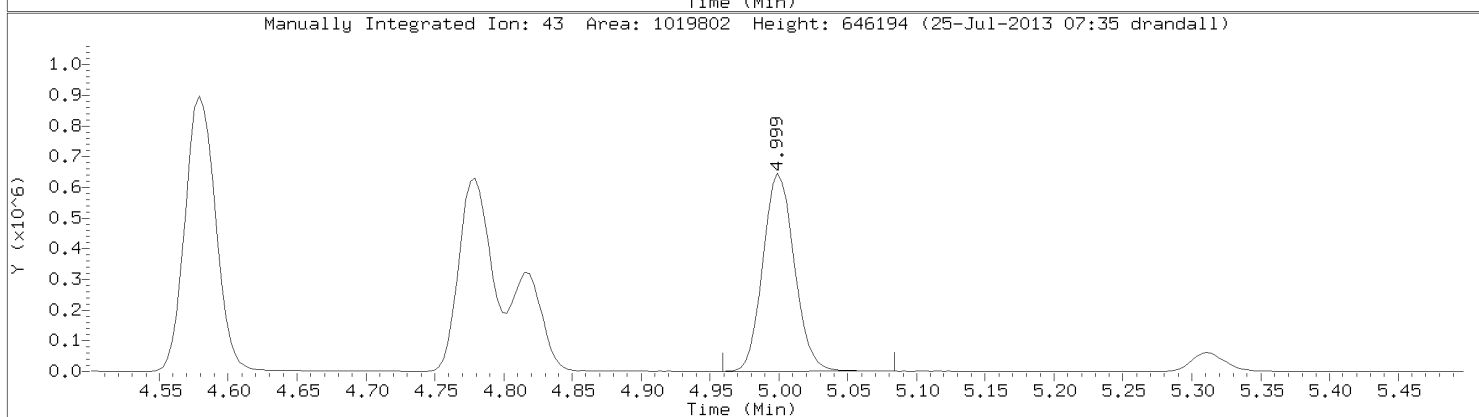
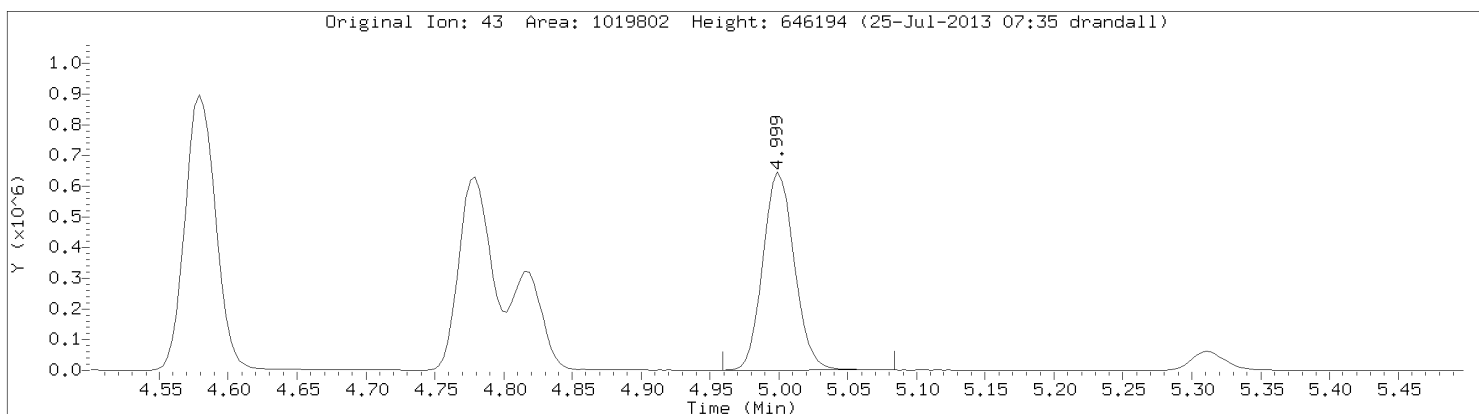


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Lab Sample ID: CAL6

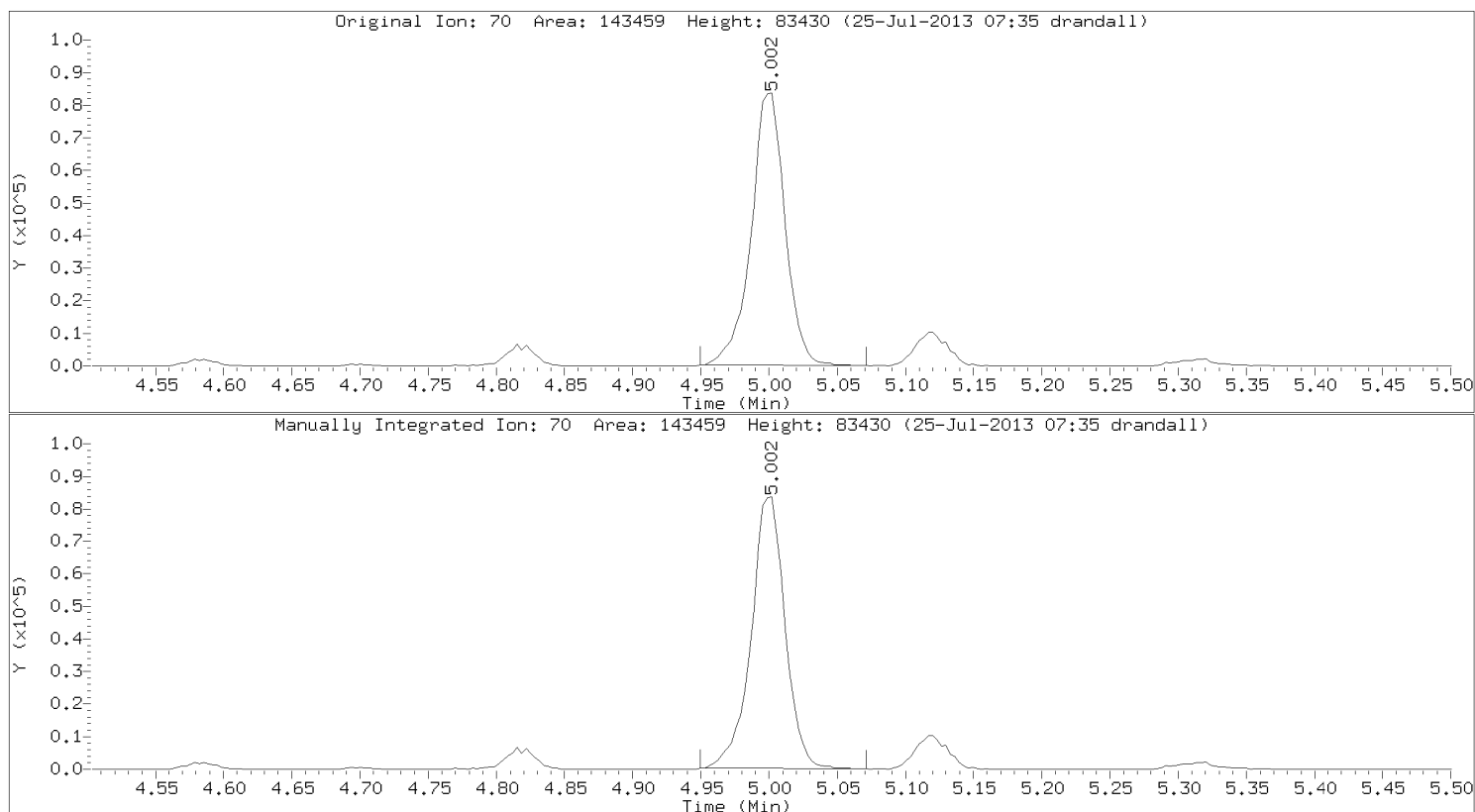


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Instrument: 10airD.i
Lab Sample ID: CAL6

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

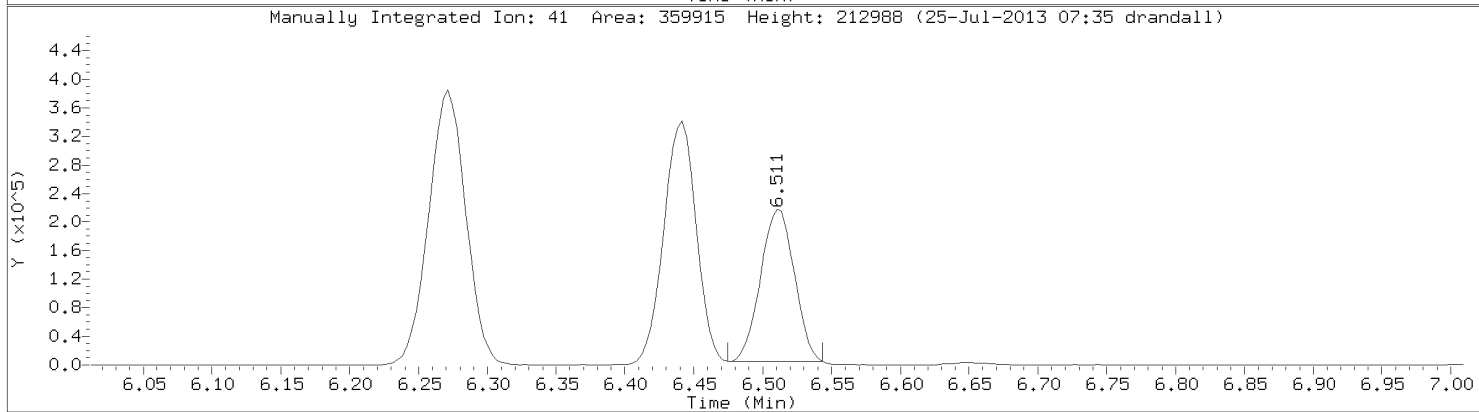
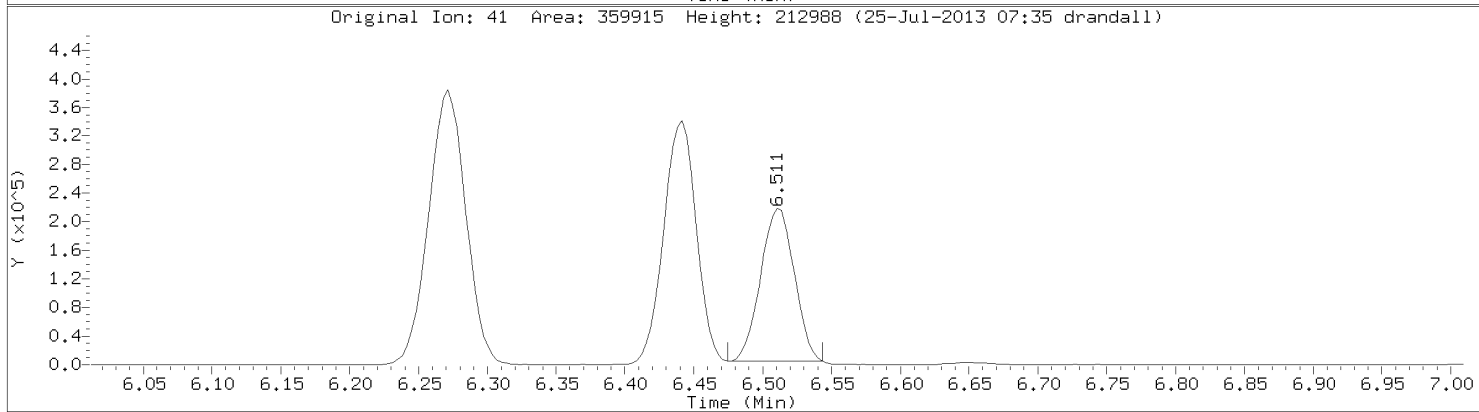
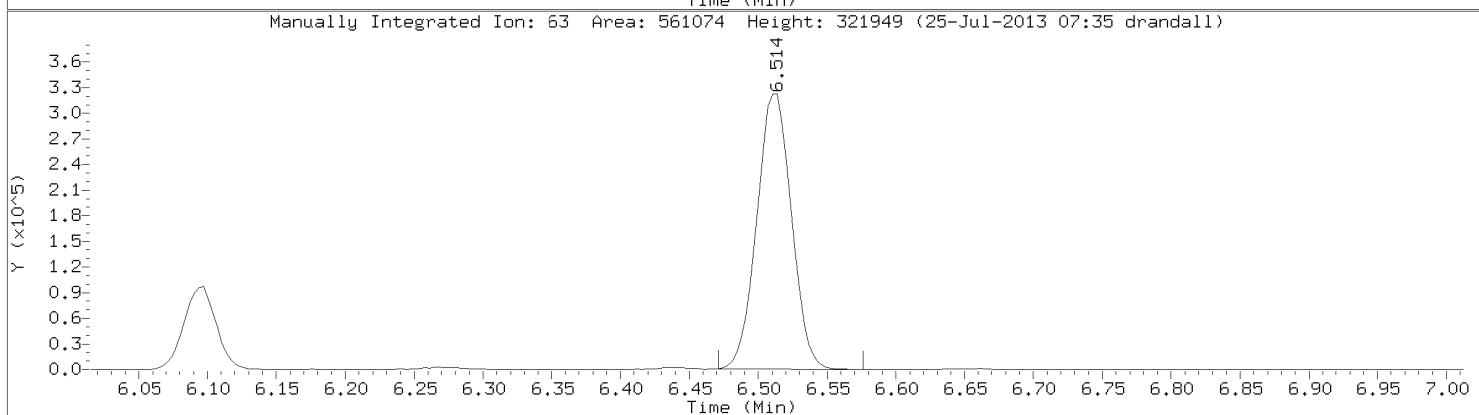
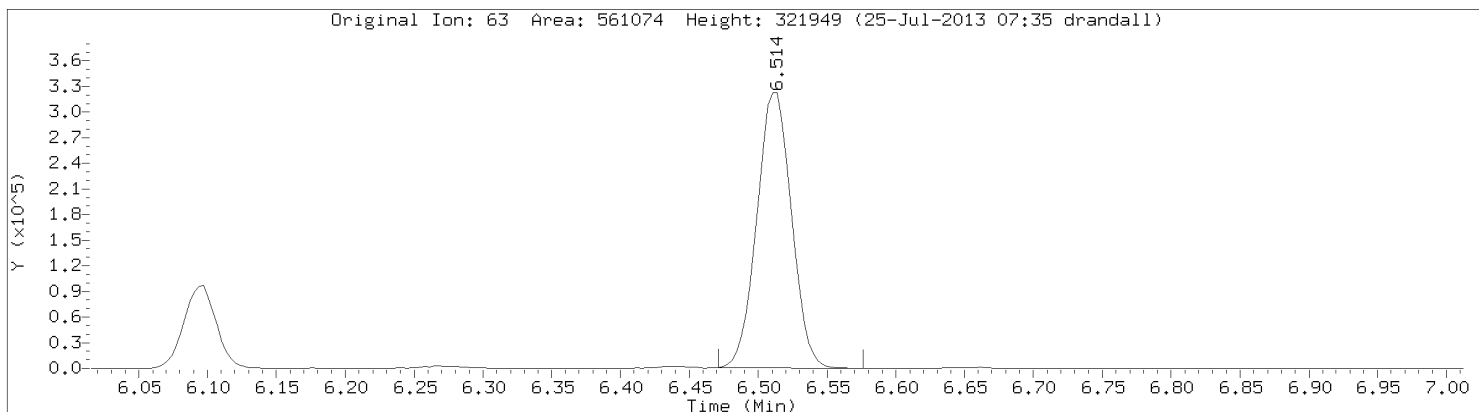


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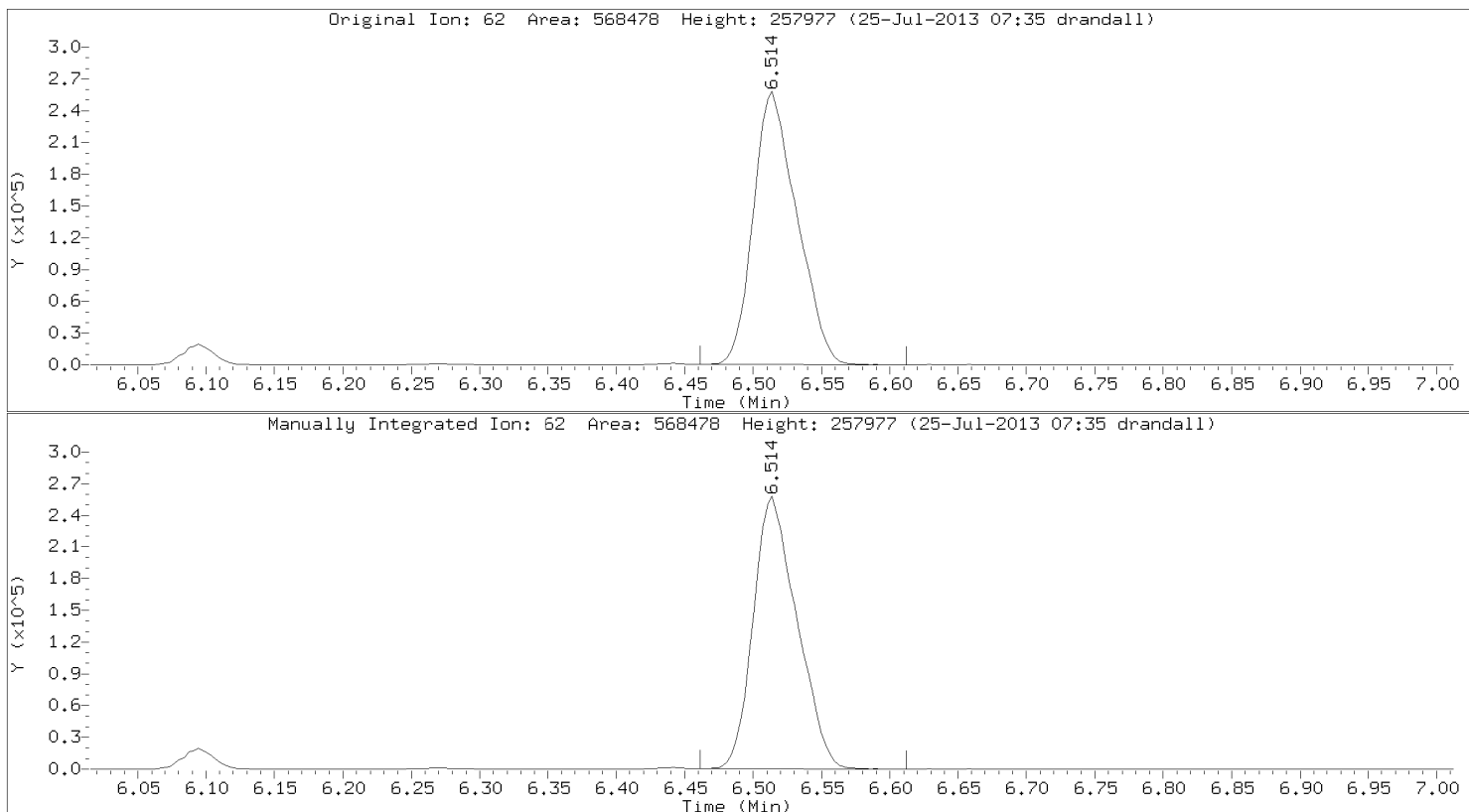


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Injection Date: 24-JUL-2013 16:39
Instrument: 10airD.i
Lab Sample ID: CAL6

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

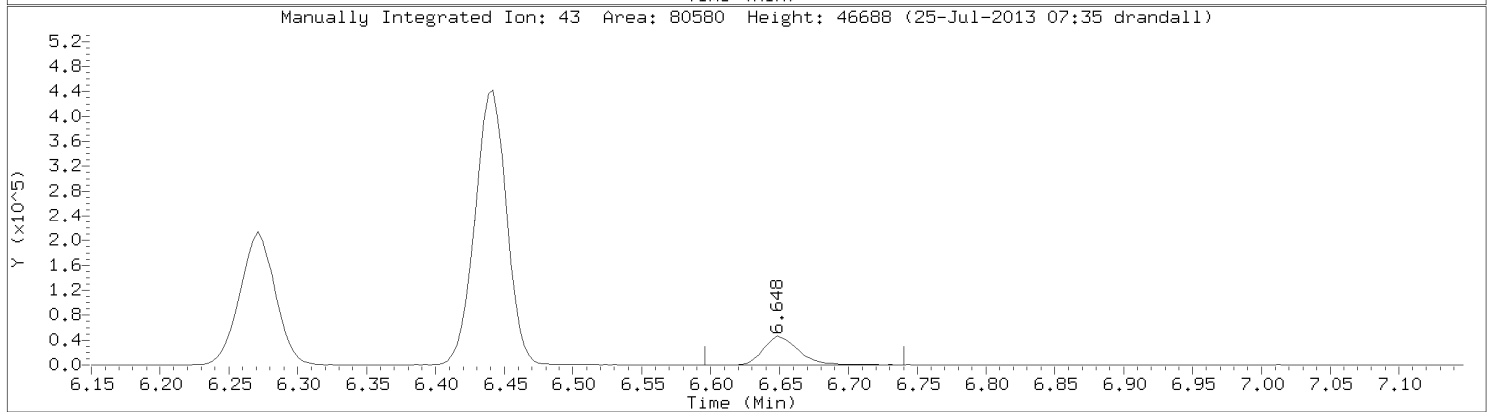
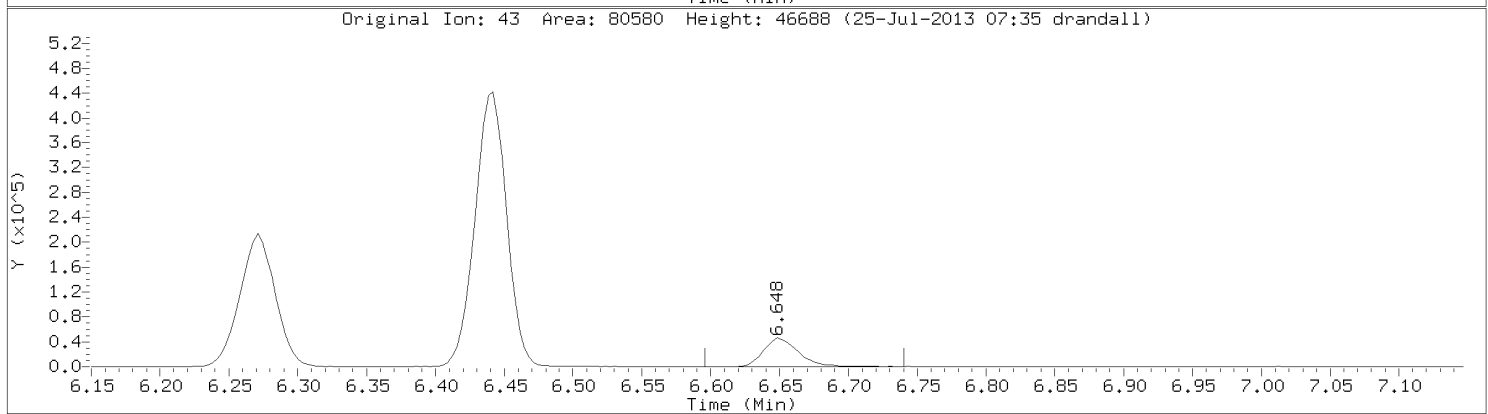
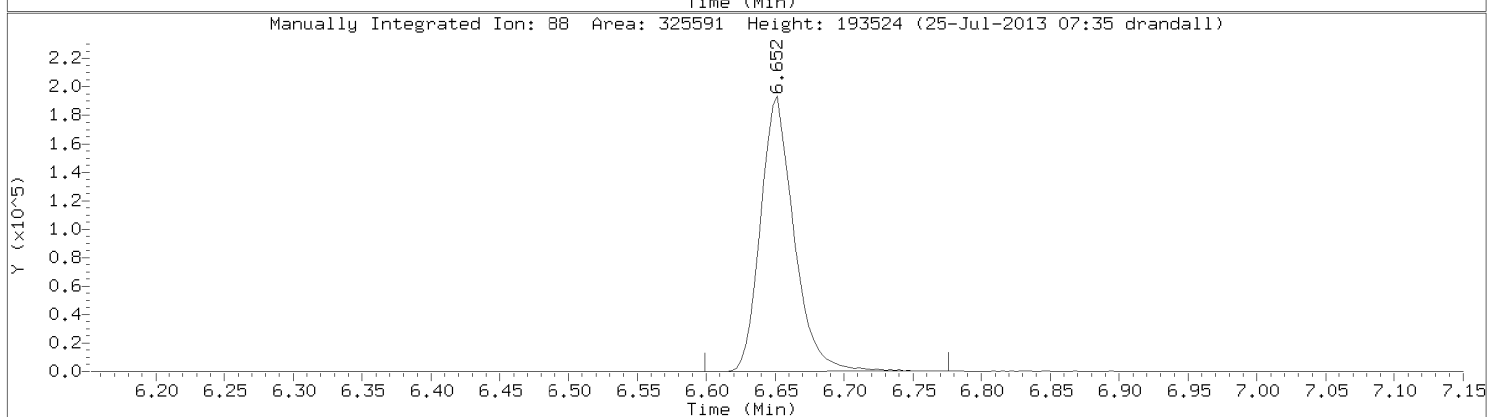
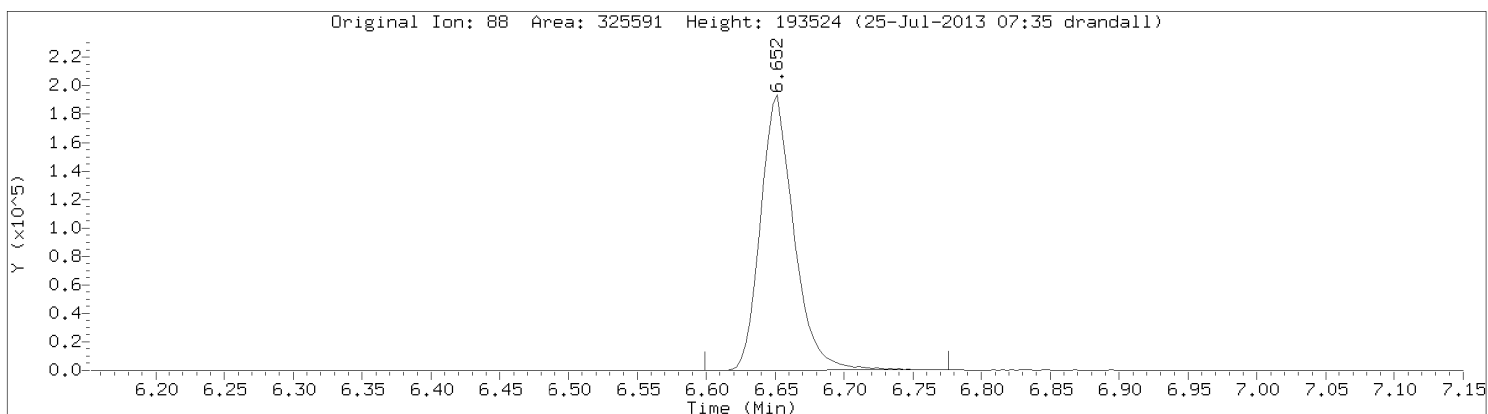


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Instrument: 10airD.i
Lab Sample ID: CAL6



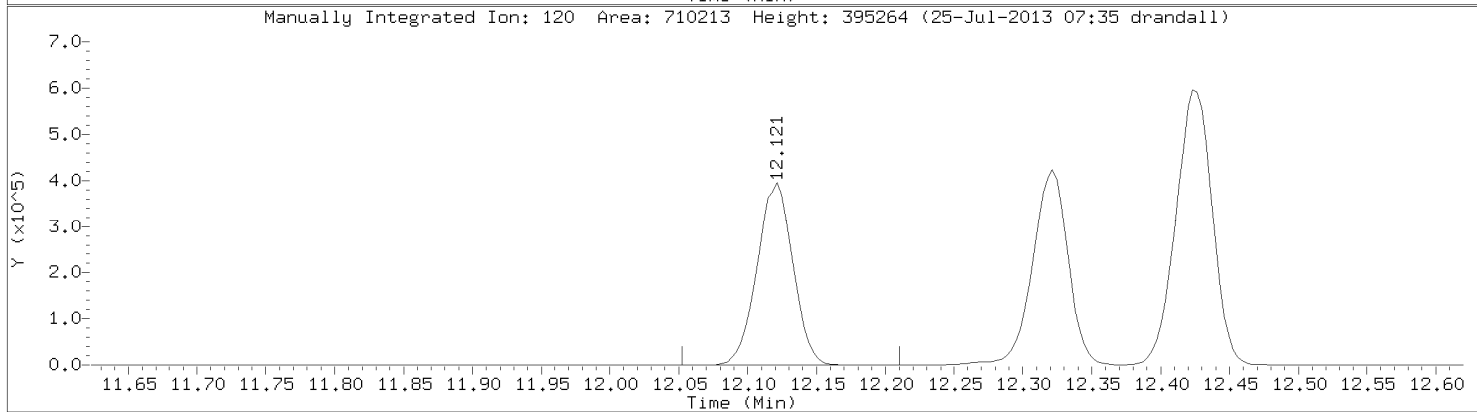
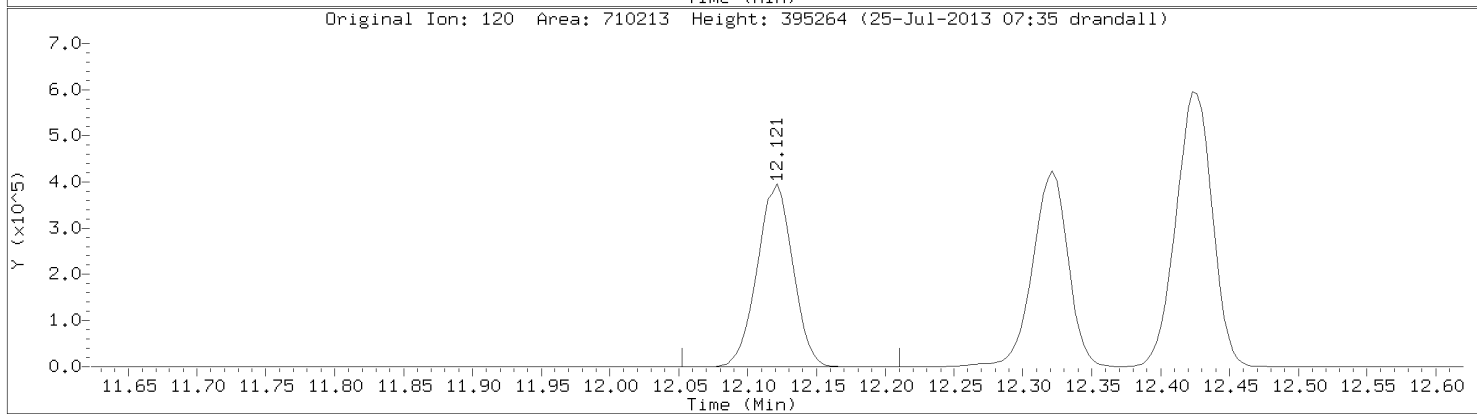
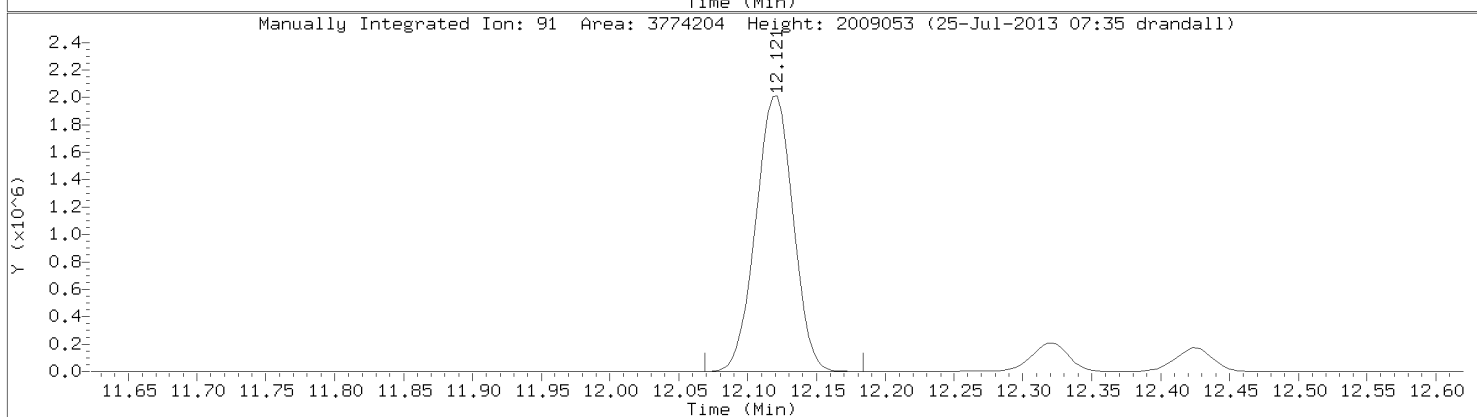
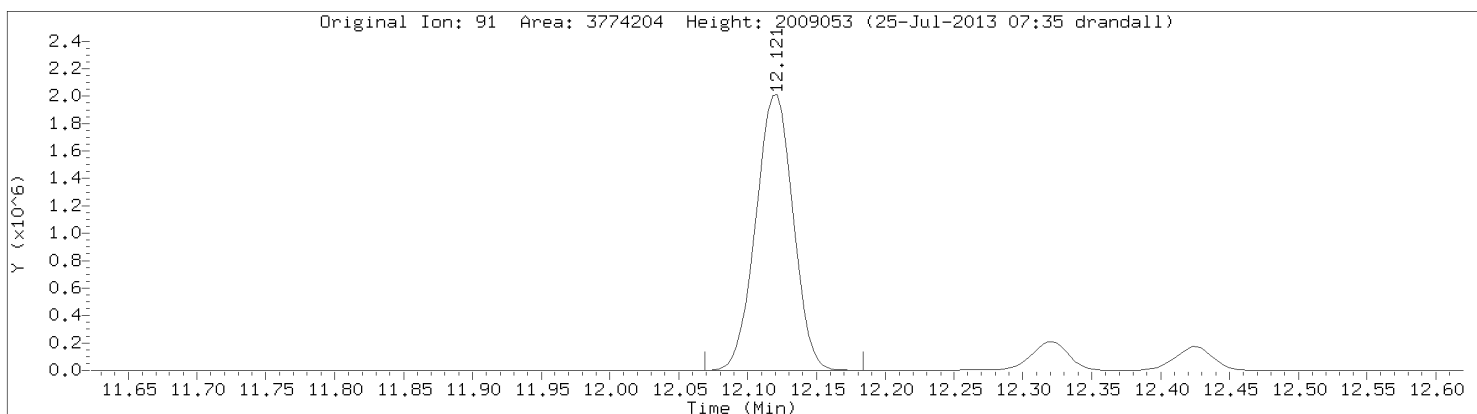
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Injection Date: 24-JUL-2013 16:39
Instrument: 10airD.i
Lab Sample ID: CAL6

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



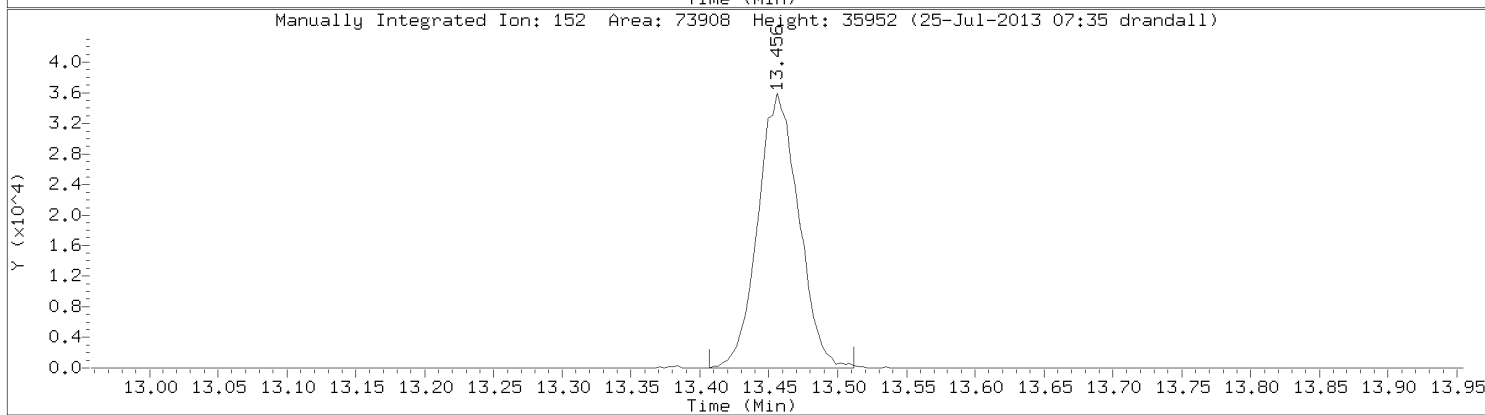
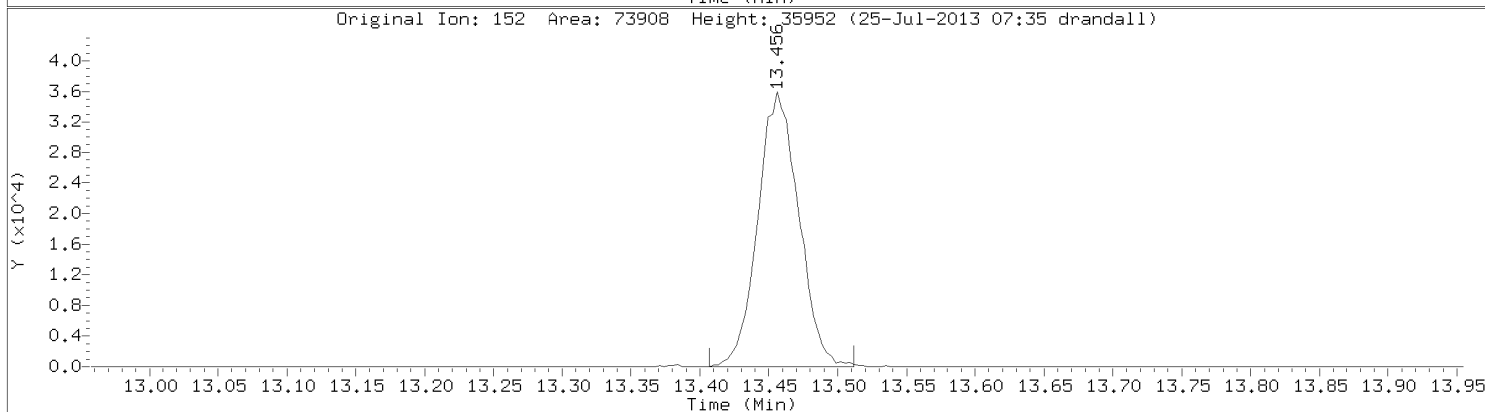
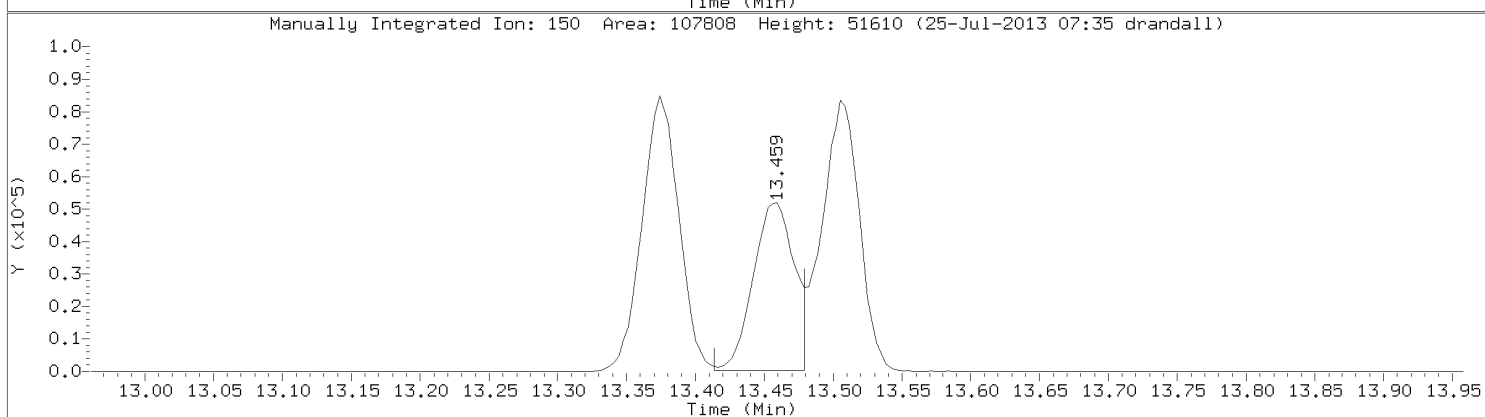
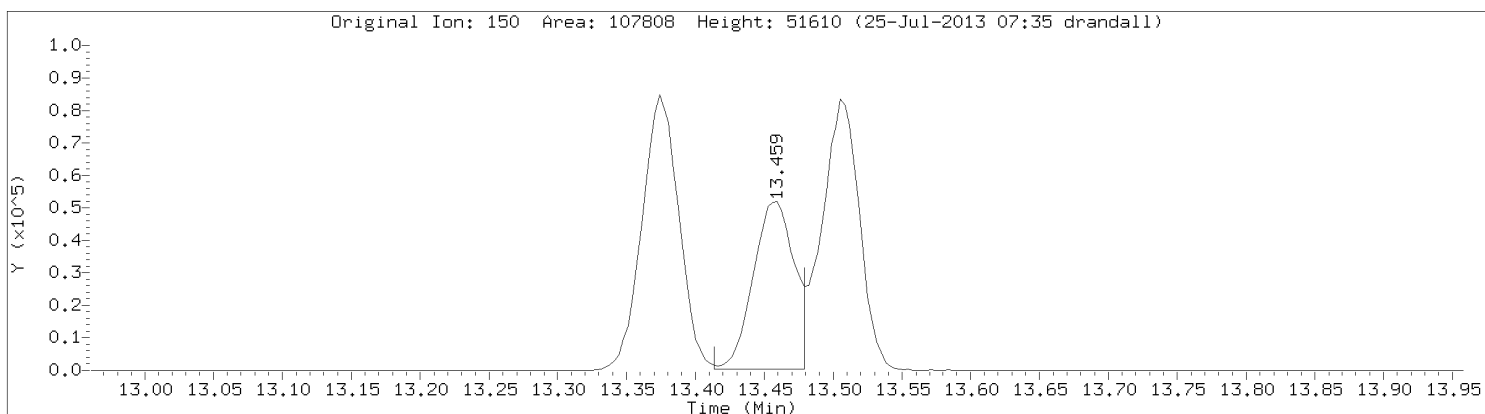
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Injection Date: 24-JUL-2013 16:39
Instrument: 10airD.i
Lab Sample ID: CAL6

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



Data File: \\192.168.10.12\chem\10airD.i\072413.b\20509.d
Injection Date: 24-JUL-2013 16:39
Instrument: 10airD.i
Lab Sample ID: CAL6

Compound: 1,4-dichlorobenzene-d4 (S)
CAS Number:



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072413.b\20510.d
 Lab Smp Id: ICV
 Inj Date : 24-JUL-2013 17:07
 Operator : DR1 Inst ID: 10airD.i
 Smp Info :
 Misc Info :
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\072413.b\TO15_205-13.m
 Meth Date : 25-Jul-2013 07:45 drandall Quant Type: ISTD
 Cal Date : 24-JUL-2013 16:39 Cal File: 20509.d
 Als bottle: 10 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10AIRPC4

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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
1 Propylene	41		2.978	2.982	(0.489)	82724	9.89466	9.89
2 Dichlorodifluoromethane	85		3.008	3.008	(0.494)	716844	8.84547	8.84
3 Dichlorotetrafluoroethane	85		3.103	3.107	(0.509)	571092	8.76985	8.77
4 Chloromethane	50		3.106	3.107	(0.510)	181470	9.80769	9.81
5 Vinyl chloride	62		3.191	3.195	(0.524)	169313	9.17687	9.18
6 1,3-Butadiene	54		3.234	3.238	(0.531)	103670	9.51965	9.52
7 Bromomethane	94		3.391	3.392	(0.557)	152039	6.54342	6.54
8 Chloroethane	64		3.447	3.448	(0.566)	69096	7.32175	7.32 (M)
9 Ethanol	31		3.496	3.494	(0.574)	82849	8.58115	8.58
10 Vinyl Bromide	106		3.582	3.585	(0.588)	213692	9.30101	9.30
11 Acrolein	56		3.683	3.684	(0.604)	47053	7.53024	7.53
12 Trichlorofluoromethane	101		3.693	3.694	(0.606)	751132	8.52057	8.52
13 Acetone	43		3.729	3.726	(0.612)	371328	8.40317	8.40
14 Isopropyl Alcohol	45		3.752	3.756	(0.616)	292012	10.0754	10.1
15 1,1-Dichloroethene	61		3.978	3.979	(0.653)	421428	10.7494	10.7
16 Acrylonitrile	53		3.985	3.985	(0.654)	119899	9.18960	9.19
17 Tert Butyl Alcohol	59		3.982	3.989	(0.653)	412448	8.89688	8.90 (M)
18 Freon 113	101		4.031	4.030	(0.662)	479488	8.15037	8.15
19 Methylene chloride	49		4.090	4.094	(0.671)	238437	9.52370	9.52
20 Allyl Chloride	76		4.103	4.107	(0.673)	92229	9.81811	9.82
21 Carbon Disulfide	76		4.224	4.224	(0.693)	452992	6.21766	6.22
22 trans-1,2-dichloroethene	96		4.418	4.422	(0.725)	257509	10.2233	10.2
23 Methyl Tert Butyl Ether	73		4.457	4.458	(0.731)	622686	10.0203	10.0 (M)

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppbv)	FINAL (ppbv)
24 Vinyl Acetate	43		4.575	4.579	(0.751)	480925	10.1418	10.1	
25 1,1-Dichloroethane	63		4.579	4.582	(0.751)	427257	9.76820	9.77	
\$ 26 Hexane-d14 (S)	66		4.697	4.700	(0.771)	310399	9.64343	9.64	
27 Methyl Ethyl Ketone	72		4.775	4.779	(0.784)	111278	10.8769	10.9	
28 n-Hexane	57		4.815	4.818	(0.790)	282241	9.64577	9.64 (M)	
29 cis-1,2-Dichloroethene	96		4.972	4.979	(0.816)	221843	9.62593	9.62	
30 Ethyl Acetate	43		4.995	4.999	(0.820)	354768	10.5789	10.6 (M)	
31 Chloroform	83		5.113	5.120	(0.839)	567369	10.4167	10.4	
32 Tetrahydrofuran	42		5.310	5.310	(0.871)	140902	10.6828	10.7	
33 1,1,1-Trichloroethane	97		5.595	5.599	(0.918)	595374	10.1957	10.2	
34 1,2-Dichloroethane	62		5.615	5.619	(0.921)	446376	11.0359	11.0	
35 Benzene	78		5.880	5.887	(0.965)	598217	9.98416	9.98	
36 Carbon tetrachloride	117		5.903	5.907	(0.969)	625025	9.96661	9.97	
37 Cyclohexane	56		5.907	5.910	(0.969)	221669	9.79877	9.80	
* 38 1,4-Difluorobenzene	114		6.094	6.094	(1.000)	666557	10.0000		
39 2,2,4-Trimethylpentane	57		6.267	6.271	(1.029)	661268	9.54492	9.54	
40 Heptane	43		6.435	6.442	(1.056)	241554	10.6274	10.6	
41 1,2-Dichloropropane	63		6.507	6.514	(1.068)	176330	9.70822	9.71 (M)	
42 Trichloroethene	130		6.530	6.533	(1.072)	236350	9.65321	9.65	
43 1,4-Dioxane	88		6.651	6.652	(1.091)	105819	9.90066	9.90 (M)	
44 Bromodichloromethane	83		6.651	6.655	(1.091)	619672	10.0637	10.1	
45 Methyl Isobutyl Ketone	43		7.225	7.229	(1.186)	326124	9.95773	9.96	
46 cis-1,3-Dichloropropene	75		7.277	7.281	(1.194)	378384	11.1202	11.1	
47 trans-1,3-Dichloropropene	75		7.769	7.773	(1.275)	359736	9.28869	9.29	
\$ 48 Toluene-d8 (S)	98		7.845	7.848	(1.287)	497431	10.6855	10.7	
49 Toluene	91		7.937	7.940	(1.302)	759946	9.72069	9.72	
50 1,1,2-Trichloroethane	97		7.943	7.950	(1.303)	238370	8.82148	8.82	
51 Methyl Butyl Ketone	43		8.242	8.244	(0.851)	300821	8.99734	9.00	
52 Dibromochloromethane	129		8.556	8.560	(0.883)	443258	8.75700	8.76	
53 1,2-Dibromoethane	107		8.825	8.829	(0.911)	382474	8.86458	8.86	
54 Tetrachloroethene	166		8.914	8.918	(0.920)	353095	8.71614	8.72	
* 55 Chlorobenzene - d5	117		9.688	9.691	(1.000)	265567	10.0000		
56 Chlorobenzene	112		9.737	9.741	(1.005)	504554	9.49143	9.49	
57 Ethyl Benzene	91		10.035	10.039	(1.036)	934596	9.22077	9.22	
58 m&p-Xylene	91		10.209	10.213	(1.054)	1624726	19.7660	19.8	
59 Bromoform	173		10.652	10.659	(1.100)	517930	9.45872	9.46	
60 Styrene	104		10.701	10.708	(1.105)	573893	10.7005	10.7	
61 o-Xylene	91		10.780	10.783	(1.113)	692755	8.24471	8.24	
62 1,1,2,2-Tetrachloroethane	83		11.091	11.095	(1.145)	499732	10.2179	10.2	
63 Isopropylbenzene	105		11.455	11.459	(1.182)	994036	9.32028	9.32	
64 N-Propylbenzene	91		12.114	12.121	(1.250)	1155090	9.06862	9.07	
65 4-Ethyltoluene	105		12.314	12.321	(1.271)	802508	8.14908	8.15 (M)	
66 1,3,5-Trimethylbenzene	105		12.419	12.426	(1.282)	800283	9.17911	9.18	
67 1,2,4-Trimethylbenzene	105		13.016	13.020	(1.344)	751420	9.01308	9.01	
68 1,3-Dichlorobenzene	146		13.370	13.374	(1.380)	498621	9.68893	9.69	
69 Sec- Butylbenzene	105		13.397	13.404	(1.383)	1095389	9.40150	9.40	
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.449	13.459	(1.388)	110439	10.3026	10.3	
71 Benzyl Chloride	91		13.479	13.486	(1.391)	691251	9.56559	9.56	
72 1,4-Dichlorobenzene	146		13.498	13.509	(1.393)	483206	9.62441	9.62	
73 1,2-Dichlorobenzene	146		14.039	14.043	(1.449)	421856	9.89397	9.89	
74 N-Butylbenzene	91		14.321	14.325	(1.478)	887410	9.91371	9.91	
75 1,2,4-Trichlorobenzene	180		16.679	16.683	(1.722)	361454	13.0115	13.0 (R)	
76 Naphthalene	128		16.856	16.860	(1.740)	577528	13.4316	13.4 (R)	
77 Hexachlorobutadiene	225		17.233	17.236	(1.779)	407124	12.1626	12.2	

Data File: \\192.168.10.12\chem\10airD.i\072413.b\20510.d
Report Date: 25-Jul-2013 07:46

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\072413.b\20510.d
Report Date: 25-Jul-2013 07:46

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 20510.d
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\072413.b\TO15_205-13.m
Misc Info:

Calibration Date: 24-JUL-2013
Calibration Time: 15:36
Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	666557	14.97
55 Chlorobenzene - d	221404	132842	309966	265567	19.95

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	0.05
55 Chlorobenzene - d	9.69	9.36	10.02	9.69	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.

Pace Analytical Services, Inc.

RECOVERY REPORT

Client Name: Client SDG: 072413.b
 Sample Matrix: GAS Fraction: VOA
 Lab Smp Id: ICV
 Level: LOW Operator: DR1
 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\072413.b\T015_205-13.m
 Misc Info:

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
1 Propylene	10.1	9.89	97.97	60-140
2 Dichlorodifluorome	9.60	8.84	92.14	60-140
3 Dichlorotetrafluor	9.70	8.77	90.41	60-140
4 Chloromethane	10.8	9.81	90.81	60-140
5 Vinyl chloride	9.60	9.18	95.59	60-140
6 1,3-Butadiene	9.90	9.52	96.16	60-140
7 Bromomethane	7.20	6.54	90.88	60-140
8 Chloroethane	7.60	7.32	96.34	60-140
9 Ethanol	7.90	8.58	108.62	60-140
10 Vinyl Bromide	9.70	9.30	95.89	60-140
12 Trichlorofluoromet	9.90	8.52	86.07	60-140
13 Acetone	9.40	8.40	89.40	60-140
14 Isopropyl Alcohol	10.2	10.1	98.78	60-140
15 1,1-Dichloroethene	11.5	10.7	93.47	60-140
18 Freon 113	9.30	8.15	87.64	60-140
19 Methylene chloride	9.90	9.52	96.20	60-140
21 Carbon Disulfide	10.0	6.22	62.18	60-140
22 trans-1,2-dichloro	10.2	10.2	100.23	60-140
23 Methyl Tert Butyl	9.60	10.0	104.38	60-140
25 1,1-Dichloroethane	10.2	9.77	95.77	60-140
24 Vinyl Acetate	10.3	10.1	98.46	60-140
27 Methyl Ethyl Keton	10.2	10.9	106.64	60-140
28 n-Hexane	10.1	9.64	95.50	60-140
29 cis-1,2-Dichloroet	10.1	9.62	95.31	60-140
30 Ethyl Acetate	10.7	10.6	98.87	60-140
31 Chloroform	10.9	10.4	95.57	60-140
32 Tetrahydrofuran	10.8	10.7	98.91	60-140
33 1,1,1-Trichloroeth	9.90	10.2	102.99	60-140
34 1,2-Dichloroethane	11.0	11.0	100.33	60-140
35 Benzene	10.6	9.98	94.19	60-140
36 Carbon tetrachlori	10.2	9.97	97.71	60-140
37 Cyclohexane	10.5	9.80	93.32	60-140
* 38 1,4-Difluorobenzen	0.000	10.0	0.00	0-0
39 2,2,4-Trimethylpen	10.0	9.54	95.45	60-140
40 Heptane	11.3	10.6	94.05	60-140
41 1,2-Dichloropropan	10.1	9.71	96.12	60-140
42 Trichloroethene	9.50	9.65	101.61	60-140
44 Bromodichlorometha	9.80	10.1	102.69	60-140
43 1,4-Dioxane	9.70	9.90	102.07	60-140
45 Methyl Isobutyl Ke	9.80	9.96	101.61	60-140

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
46 cis-1,3-Dichloropr	11.6	11.1	95.86	60-140
47 trans-1,3-Dichloro	9.90	9.29	93.83	60-140
49 Toluene	10.4	9.72	93.47	60-140
50 1,1,2-Trichloroeth	9.60	8.82	91.89	60-140
51 Methyl Butyl Keton	9.70	9.00	92.76	60-140
52 Dibromochlorometha	9.30	8.76	94.16	60-140
53 1,2-Dibromoethane	9.60	8.86	92.34	60-140
54 Tetrachloroethene	9.60	8.72	90.79	60-140
* 55 Chlorobenzene - d5	0.000	10.0	0.00	0-0
56 Chlorobenzene	10.3	9.49	92.15	60-140
57 Ethyl Benzene	9.90	9.22	93.14	60-140
58 m&p-Xylene	20.2	19.8	97.85	60-140
59 Bromoform	9.80	9.46	96.52	60-140
60 Styrene	11.6	10.7	92.25	60-140
61 o-Xylene	9.30	8.24	88.65	60-140
62 1,1,2,2-Tetrachlor	9.30	10.2	109.87	60-140
63 Isopropylbenzene	9.30	9.32	100.22	60-140
64 N-Propylbenzene	8.90	9.07	101.89	60-140
65 4-Ethyltoluene	8.30	8.15	98.18	60-140
66 1,3,5-Trimethylben	9.60	9.18	95.62	60-140
67 1,2,4-Trimethylben	9.00	9.01	100.15	60-140
69 Sec- Butylbenzene	9.40	9.40	100.02	60-140
68 1,3-Dichlorobenzen	10.0	9.69	96.89	60-140
71 Benzyl Chloride	9.80	9.56	97.61	60-140
72 1,4-Dichlorobenzen	9.70	9.62	99.22	60-140
73 1,2-Dichlorobenzen	9.70	9.89	102.00	60-140
74 N-Butylbenzene	9.50	9.91	104.35	60-140
75 1,2,4-Trichloroben	9.10	13.0	142.98*	60-140
76 Naphthalene	9.30	13.4	144.43*	60-140
77 Hexachlorobutadien	9.10	12.2	133.66	60-140

SURROGATE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
\$ 26 Hexane-d14(S)	10.0	9.64	96.43	70-130
\$ 48 Toluene-d8 (S)	10.0	10.7	106.85	70-130
\$ 70 1,4-dichlorobenzen	10.0	10.3	103.03	70-130

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Date : 24-JUL-2013 17:07

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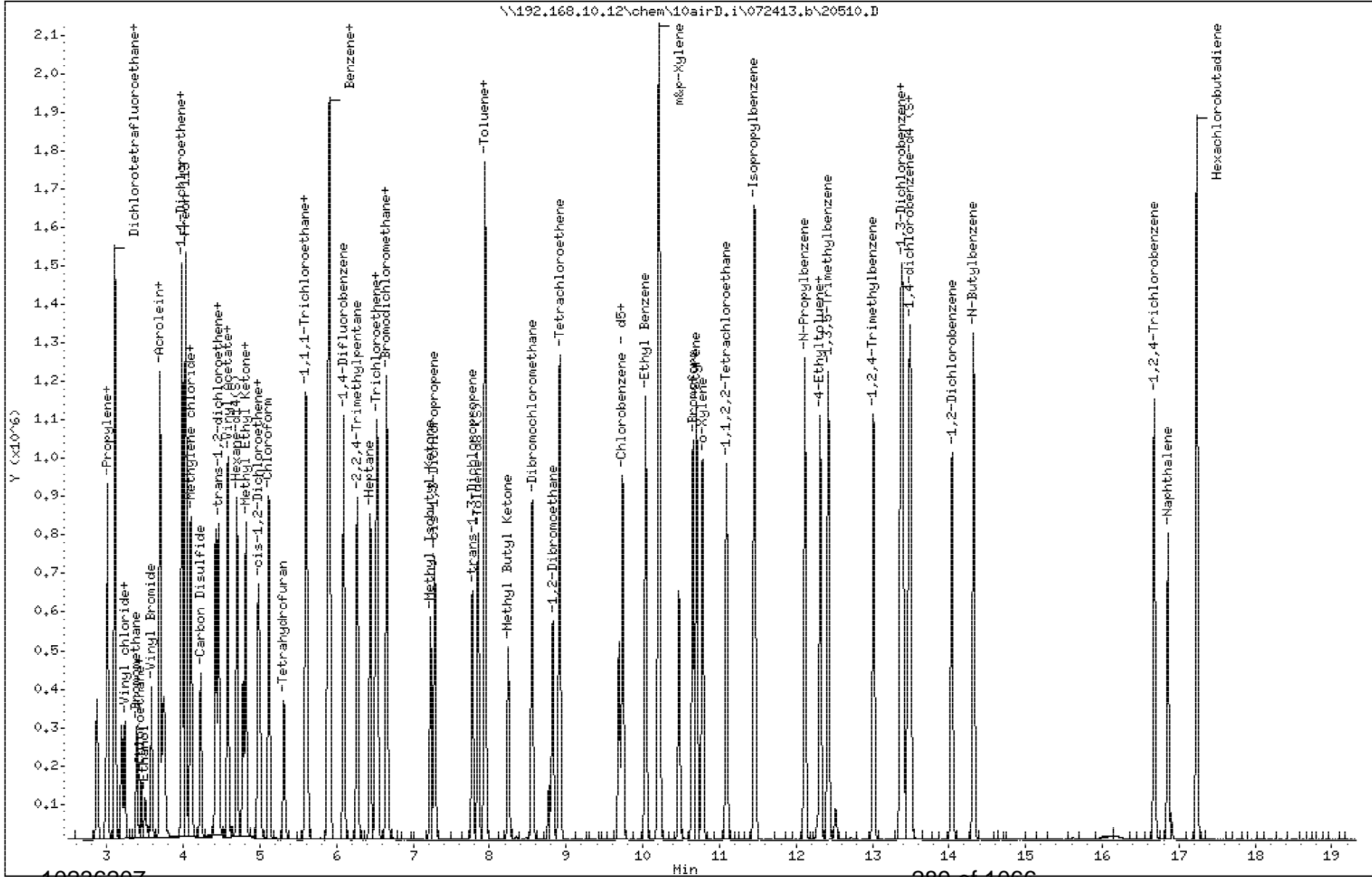
Instrument: 10airD.i

Sample Info:

Operator: DR1

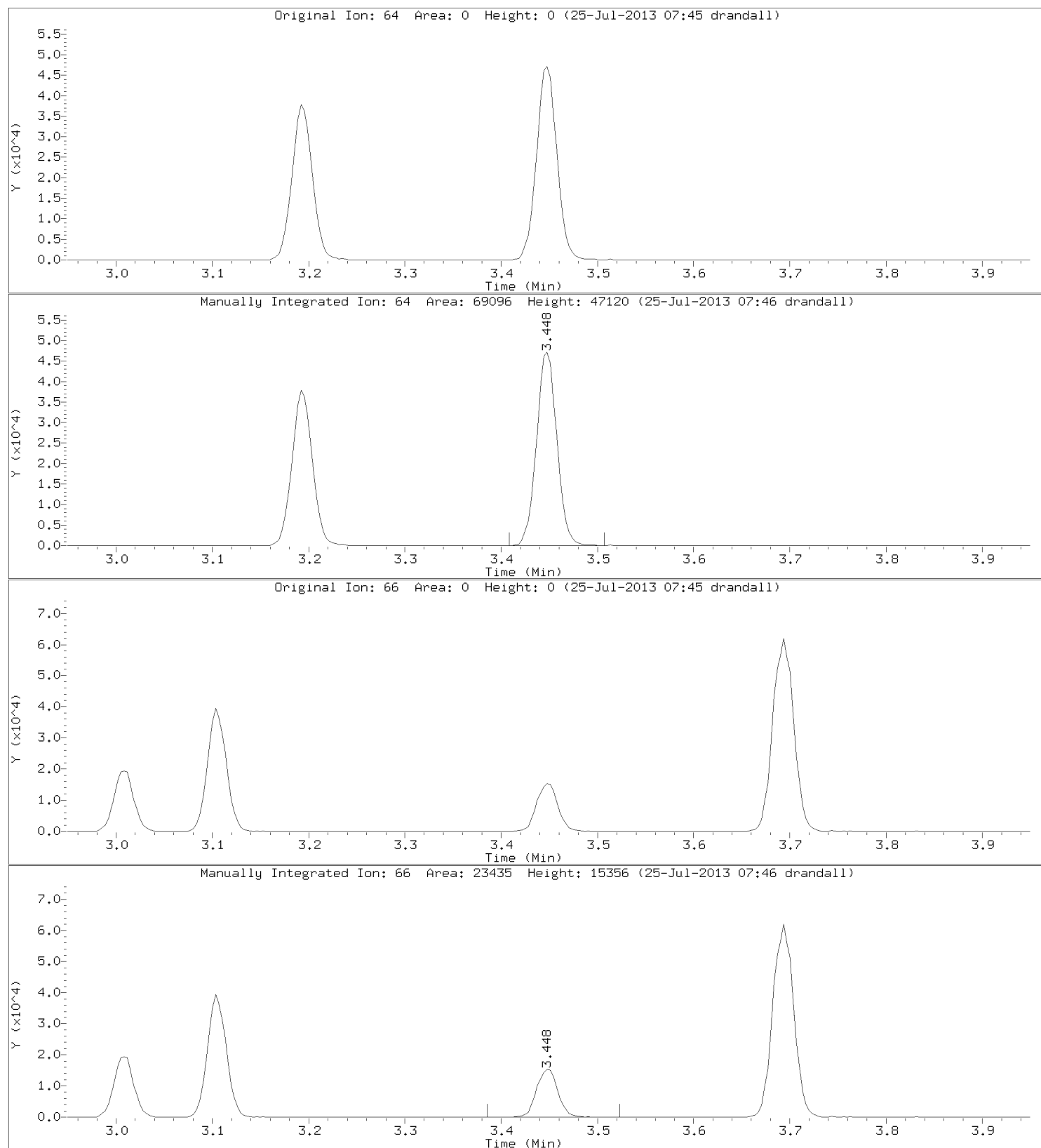
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Column diameter: 0.32



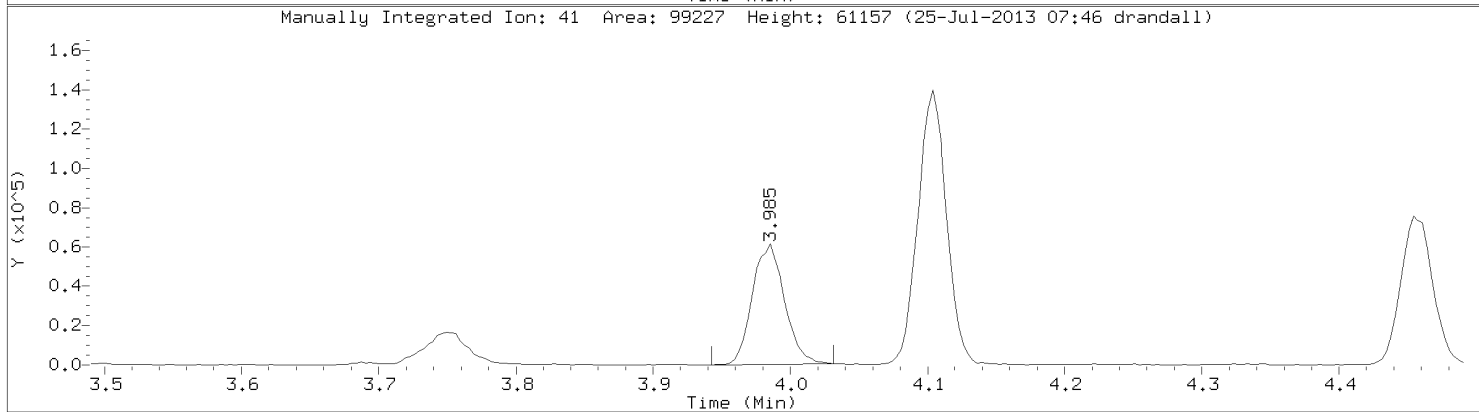
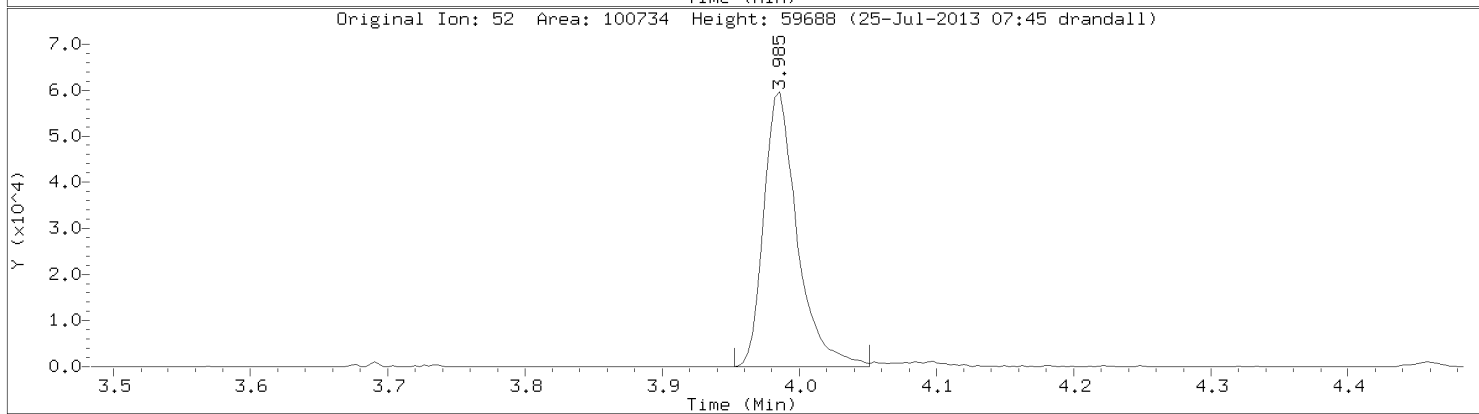
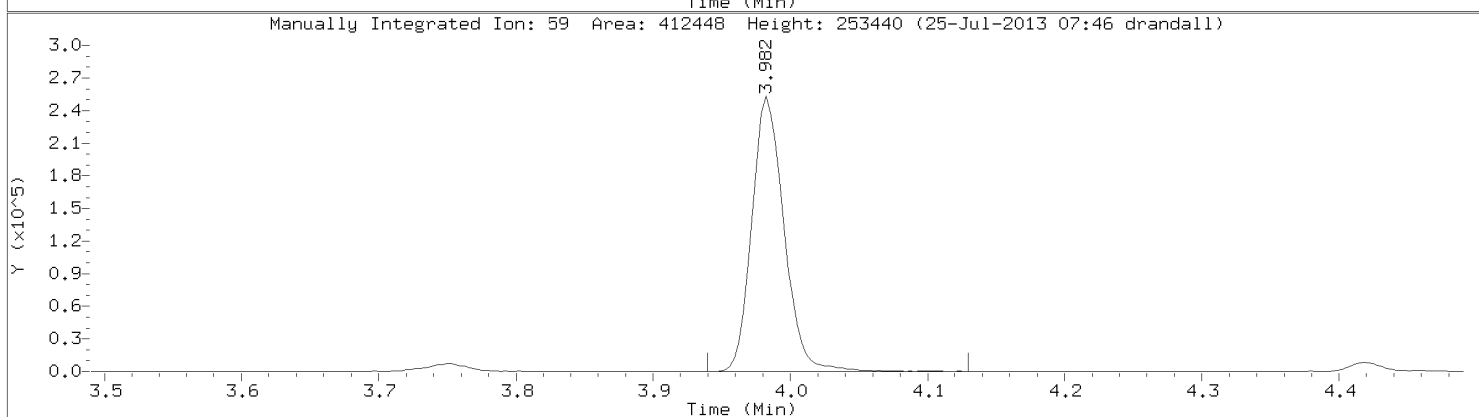
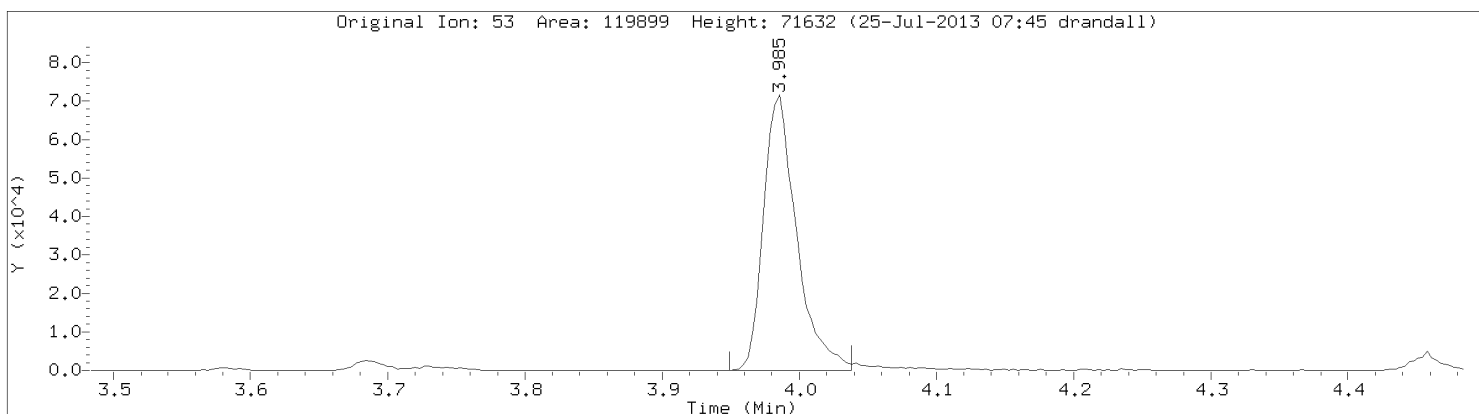
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Injection Date: 24-JUL-2013 17:07
Instrument: 10airD.i
Lab Sample ID: ICV

Compound: Chloroethane
CAS Number: 75-00-3



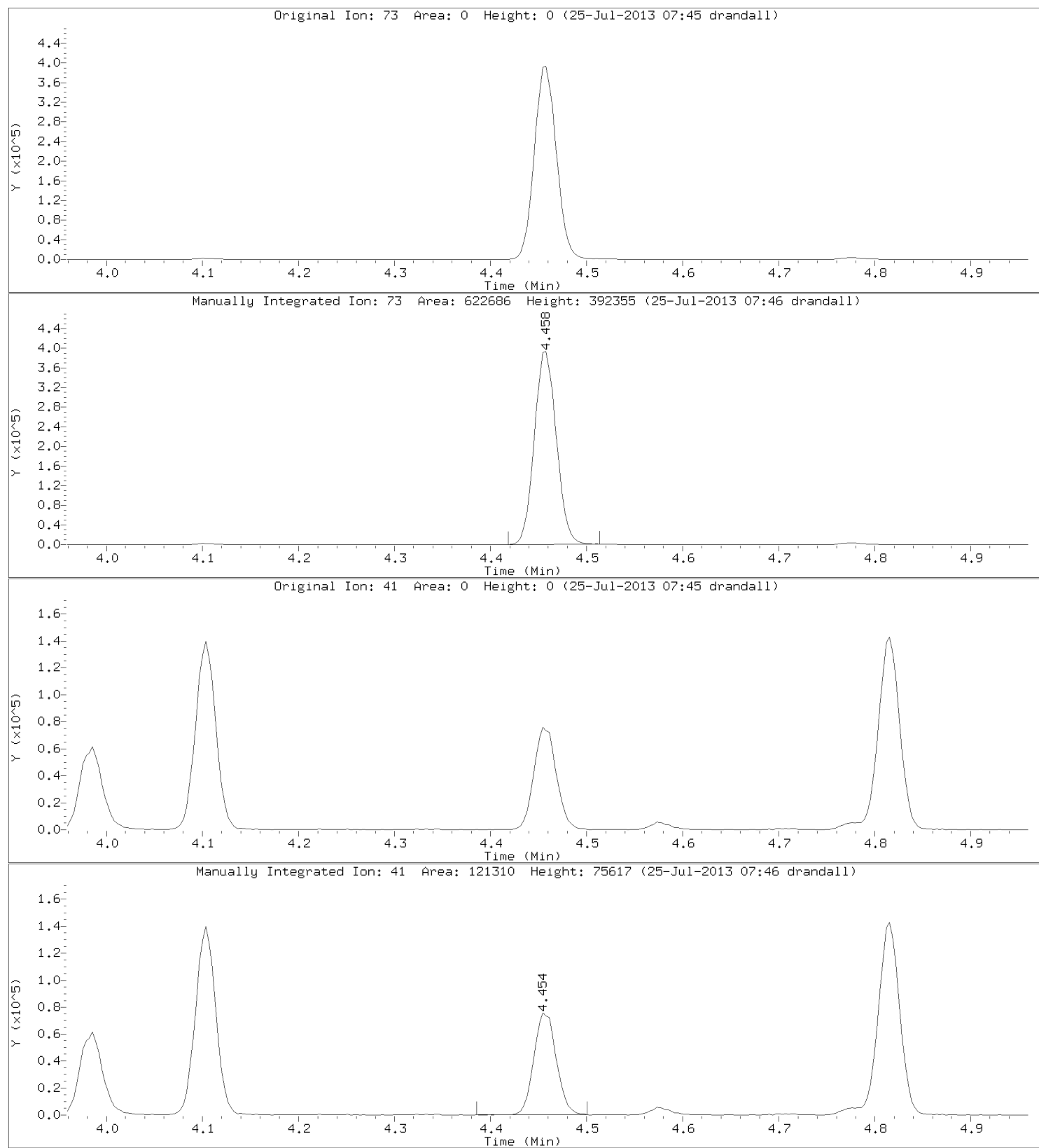
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Instrument: 10airD.i
Lab Sample ID: ICV

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



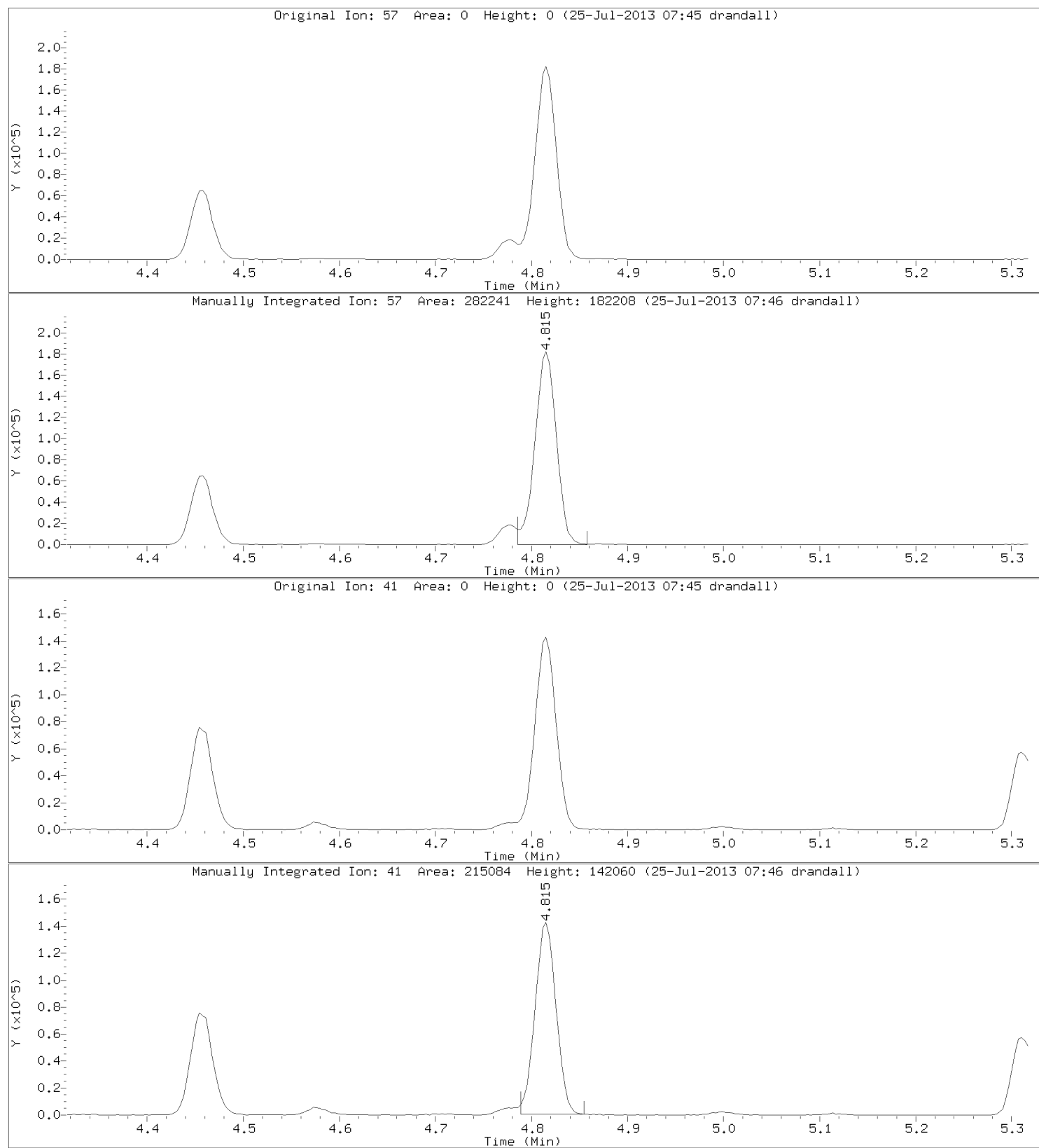
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Instrument: 10airD.i
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Compound: Methyl Tert Butyl Ether
CAS Number: 1634-04-4

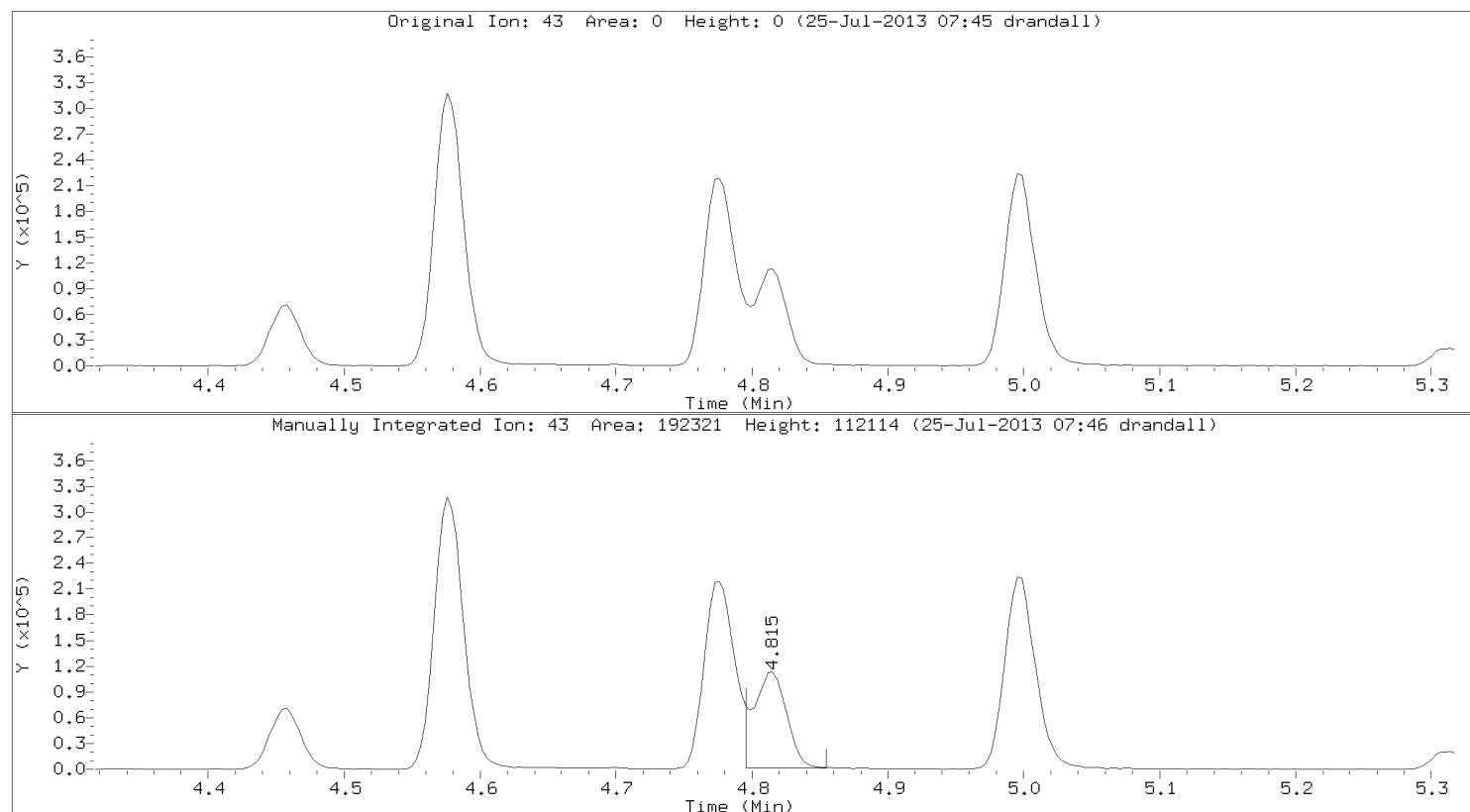


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Instrument: 10airD.i
Lab Sample ID: ICV

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

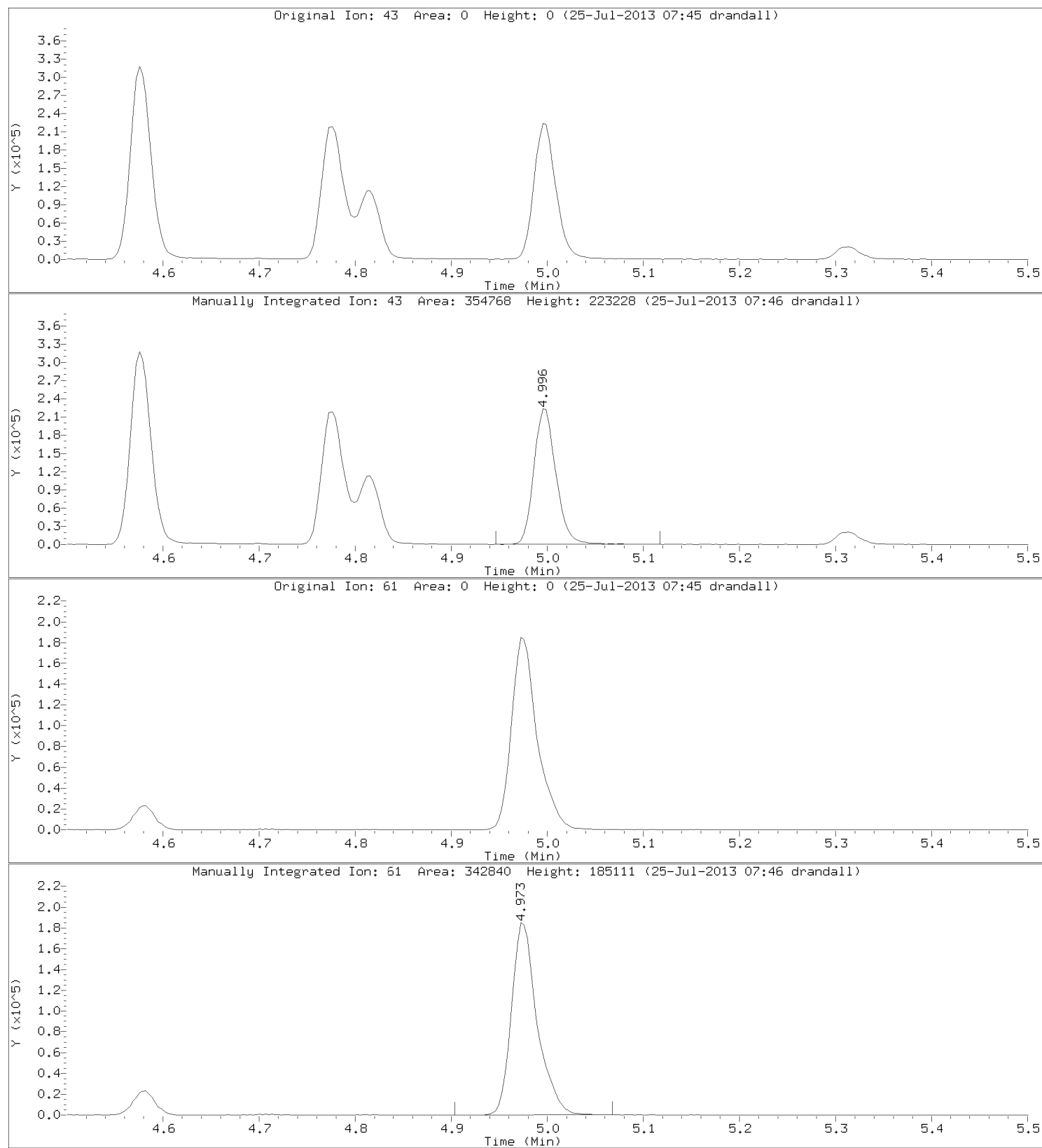


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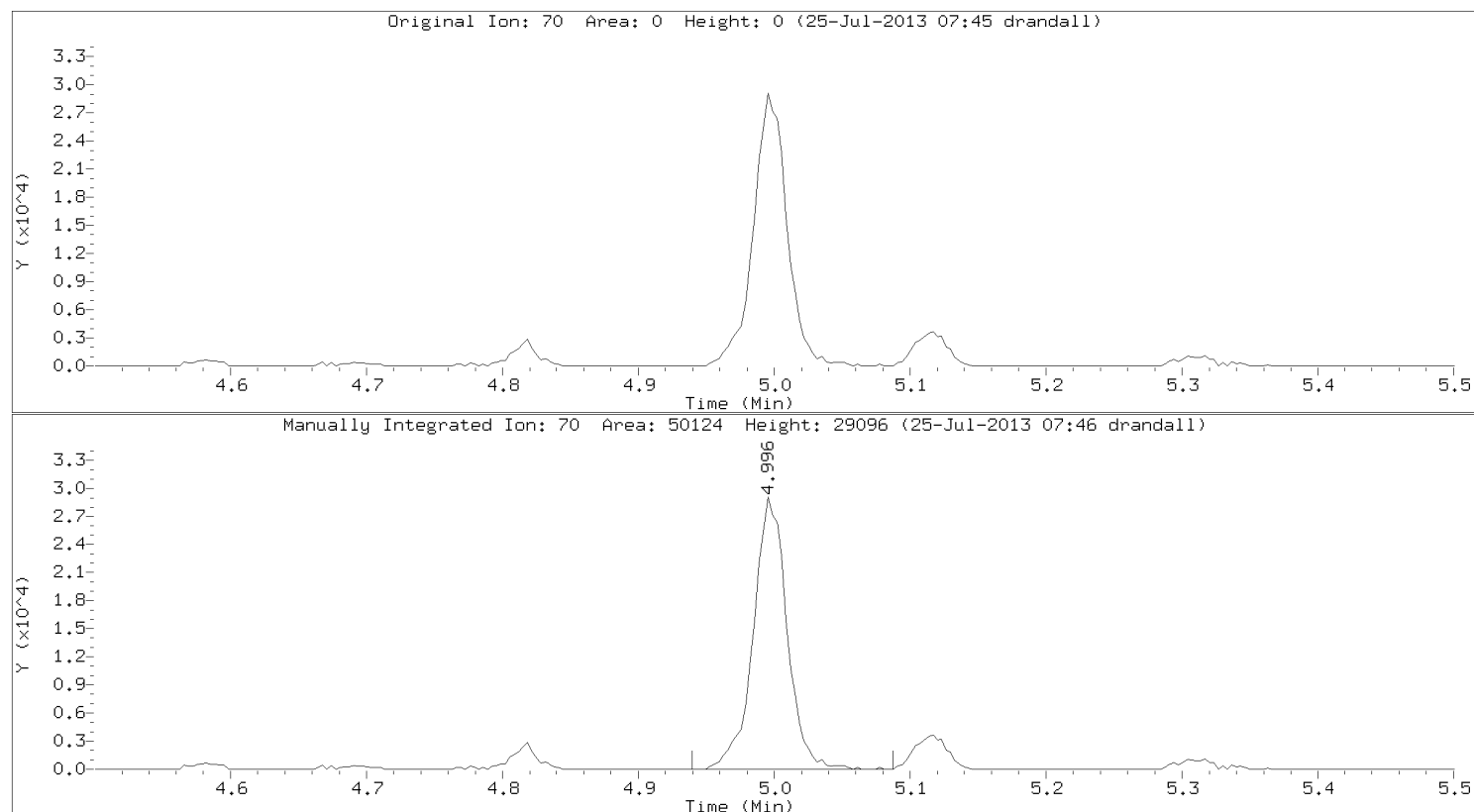


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Instrument: 10airD.i
Lab Sample ID: ICV

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

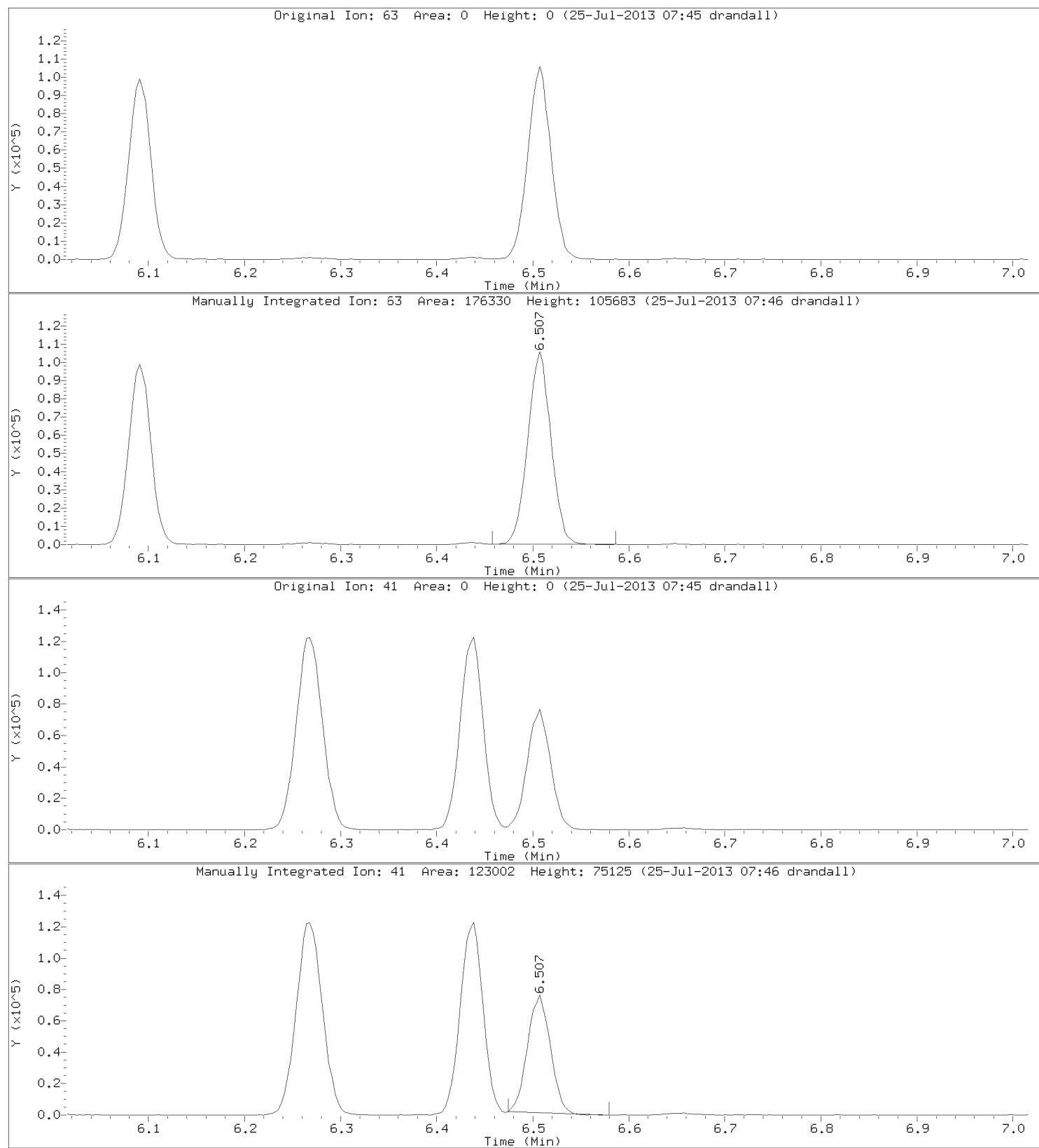


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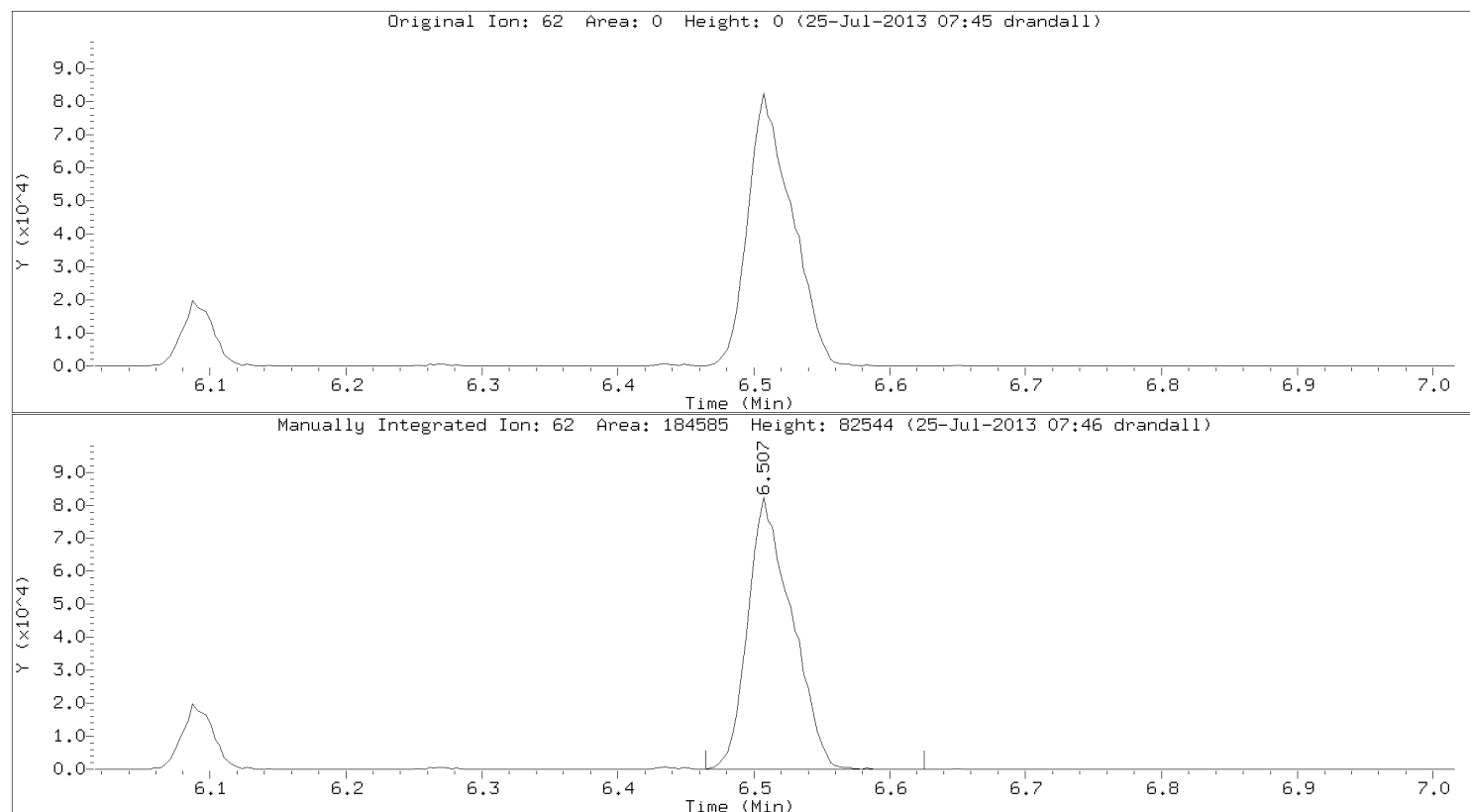


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Injection Date: 24-JUL-2013 17:07
Instrument: 10airD.i
Lab Sample ID: ICV

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

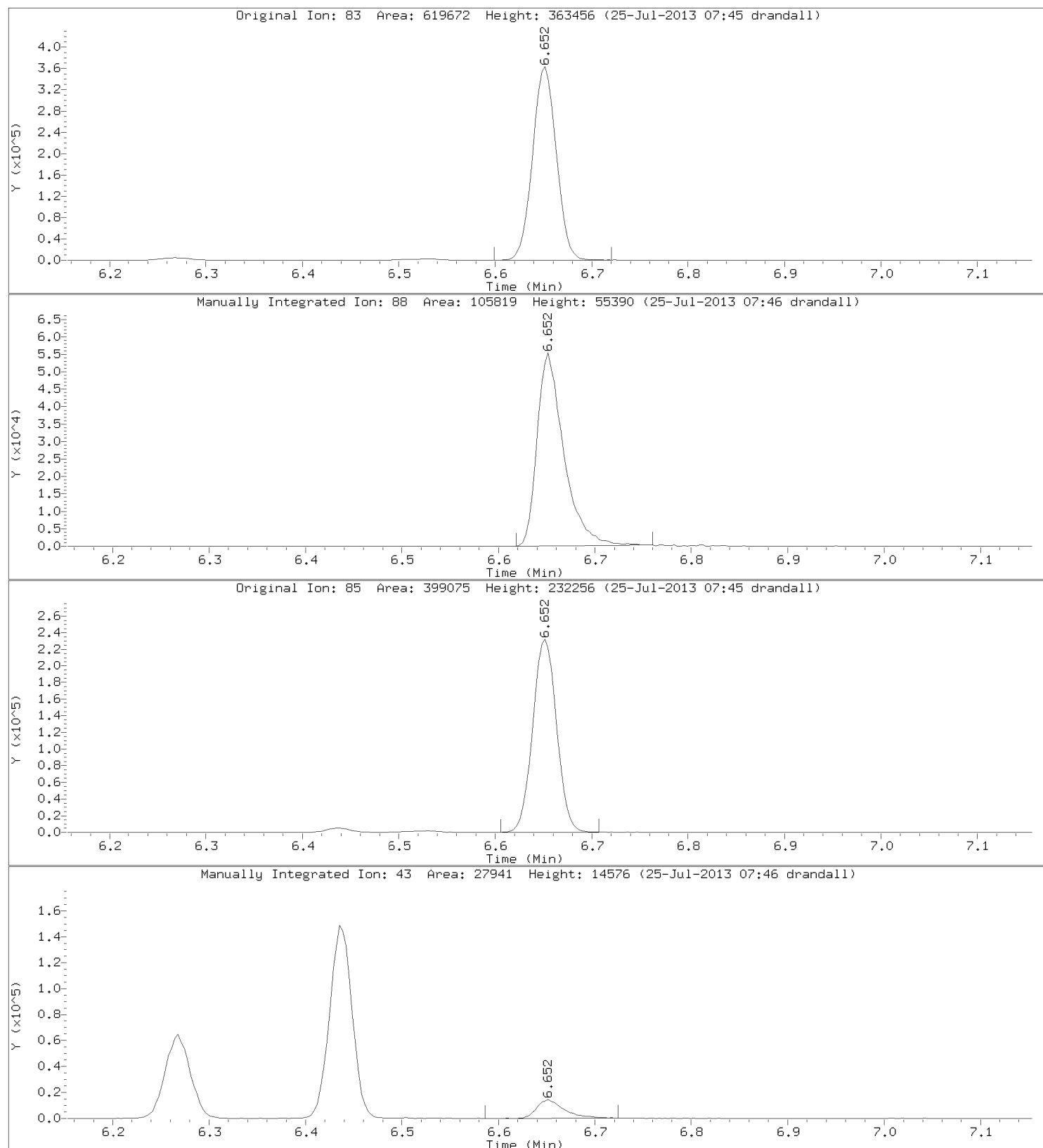


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Instrument: 10airD.i
Lab Sample ID: ICV



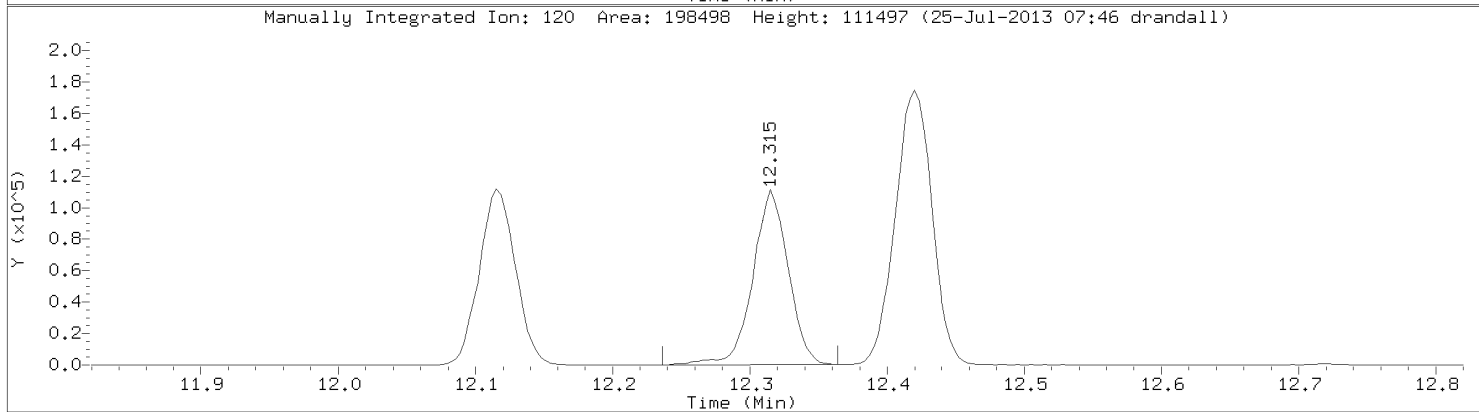
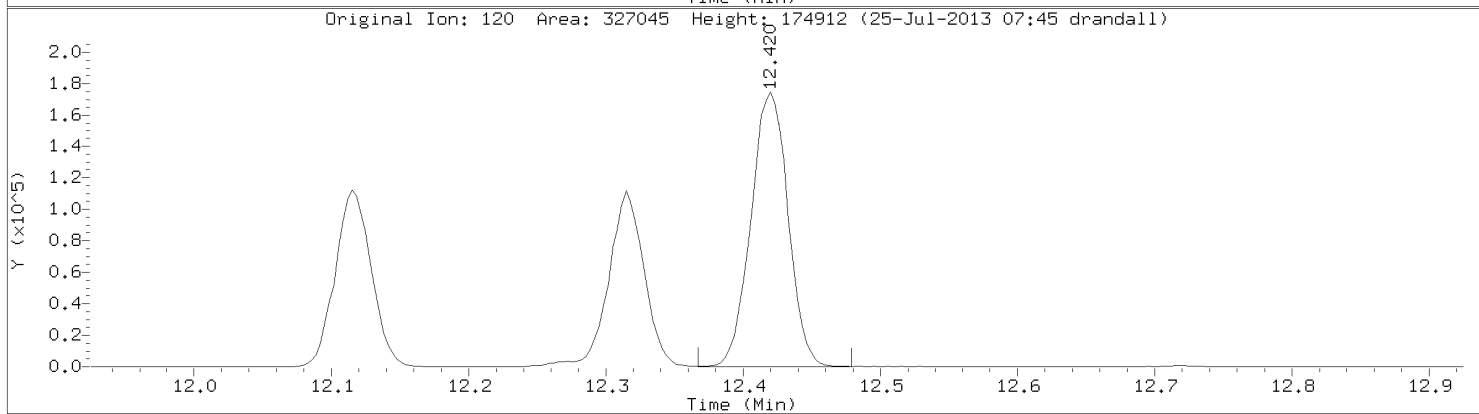
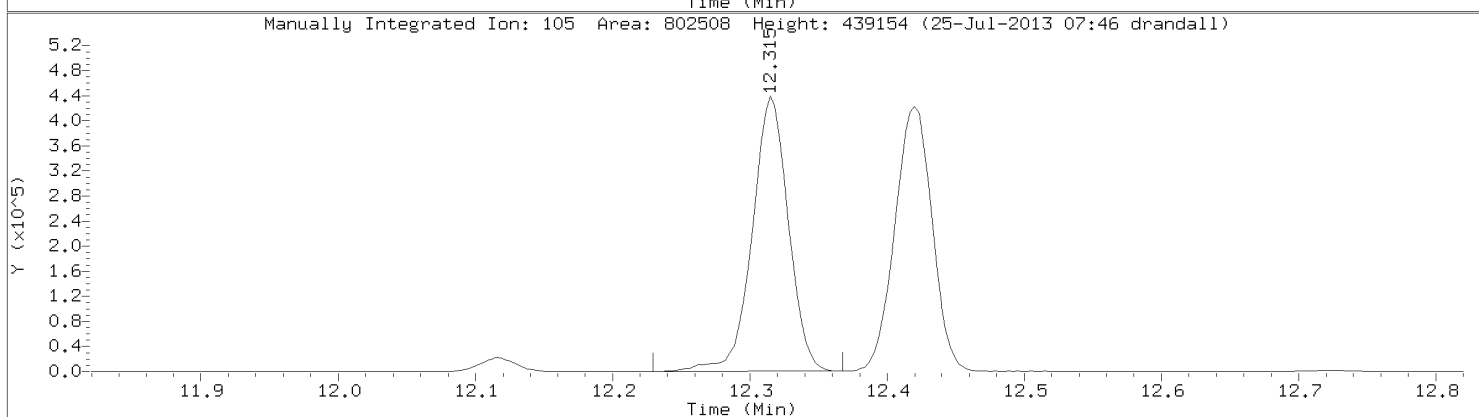
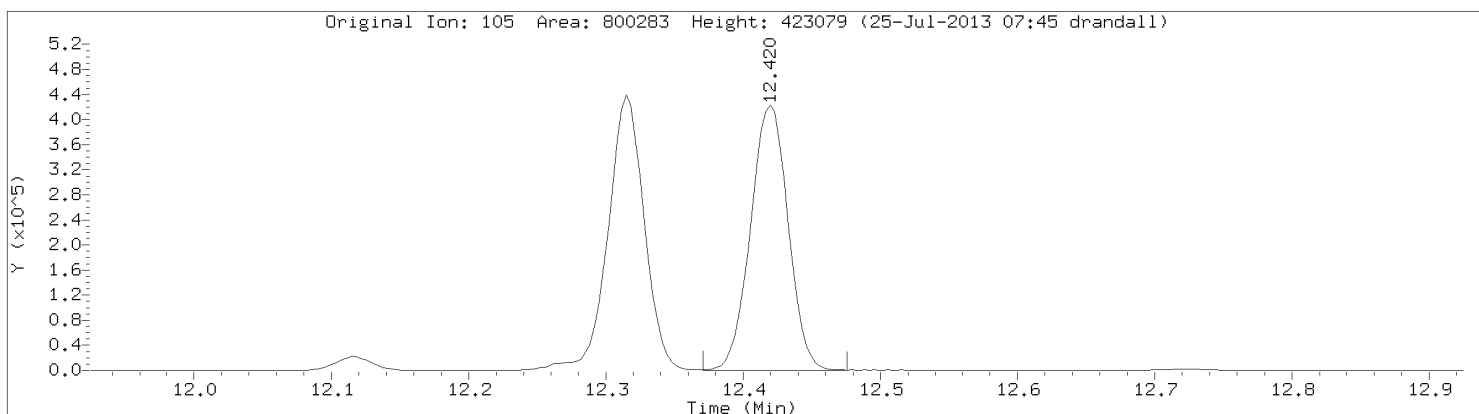
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Injection Date: 24-JUL-2013 17:07
Instrument: 10airD.i
Lab Sample ID: ICV

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

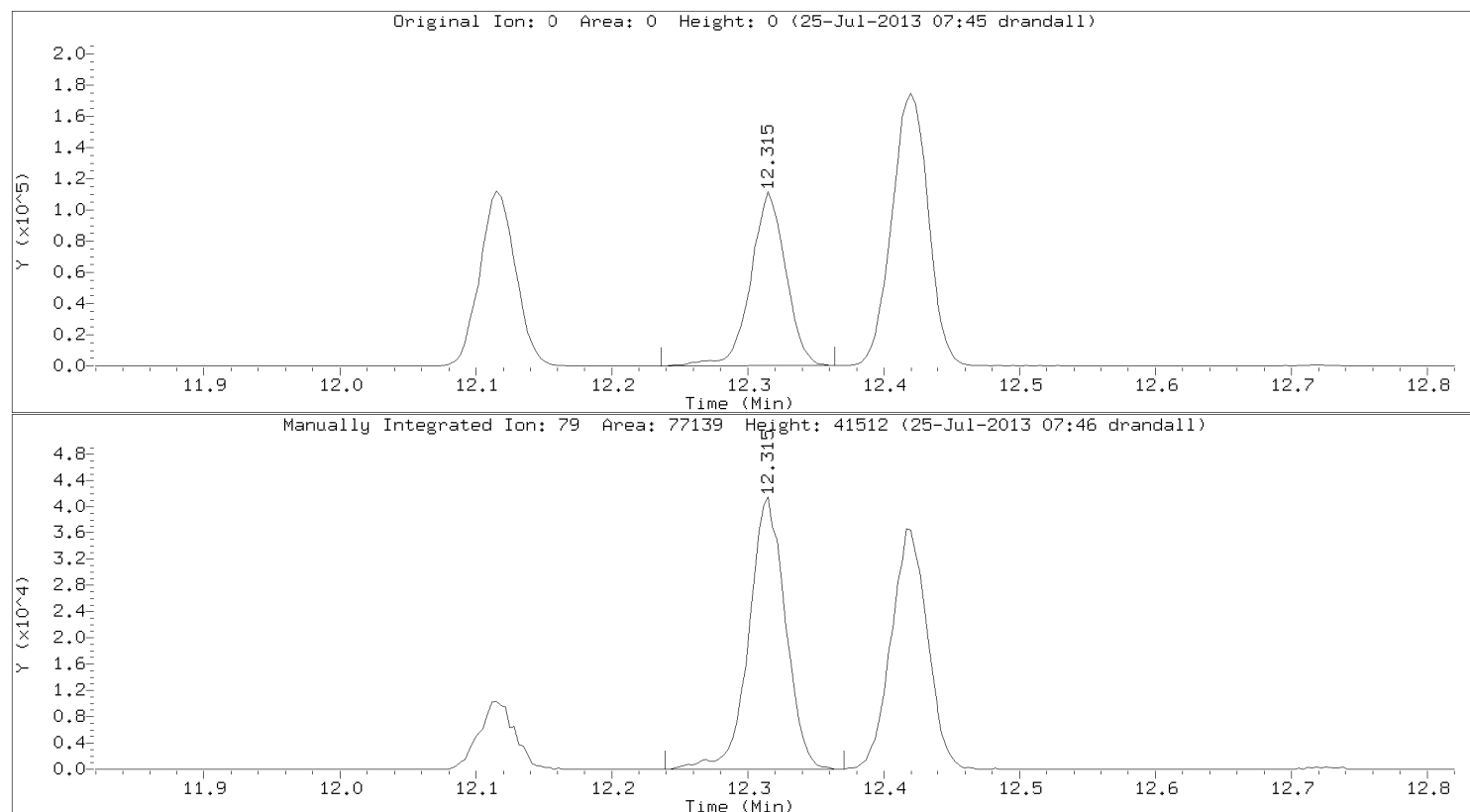


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Injection Date: 24-JUL-2013 17:07
Instrument: 10airD.i
Lab Sample ID: ICV

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



Data File: \\192.168.10.12\chem\10airD.i\072413.b\20510.d
Injection Date: 24-JUL-2013 17:07
Instrument: 10airD.i
Lab Sample ID: ICV



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.: 10236207

Lab File ID: 20503BFB.D

BFB Injection Date: 07/24/2013

Instrument ID: 10AIRD

BFB Injection Time: 13:45

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	20.02
75	30.00 - 66.00% of mass 95	62.66
96	5.00 - 9.00% of mass 95	7.03
173	Less than 2.00% of mass 174	0.63 (0.78)
174	50.00 - 120.00% of mass 95	81.70
175	4.00 - 9.00% of mass 174	6.61 (8.09)
176	93.00 - 101.00% of mass 174	78.31 (95.85)
177	5.00 - 9.00% of mass 176	5.32 (6.79)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CAL1	CAL1	20504.D	07/24/2013	14:12
2	CAL2	CAL2	20505.D	07/24/2013	14:40
3	CAL3	CAL3	20506.D	07/24/2013	15:08
4	CAL4	CAL4	20507.D	07/24/2013	15:36
5	CAL5	CAL5	20508.D	07/24/2013	16:06
6	CAL6	CAL6	20509.D	07/24/2013	16:39
7	ICV (LCS)	ICV	20510.D	07/24/2013	17:07
8	LCS (LCS)	LCS	20511.D	07/24/2013	17:35
9	BLANK (BLK)	BLANK	20513.D	07/24/2013	18:33

Date : 24-JUL-2013 13:45

Client ID: BFB

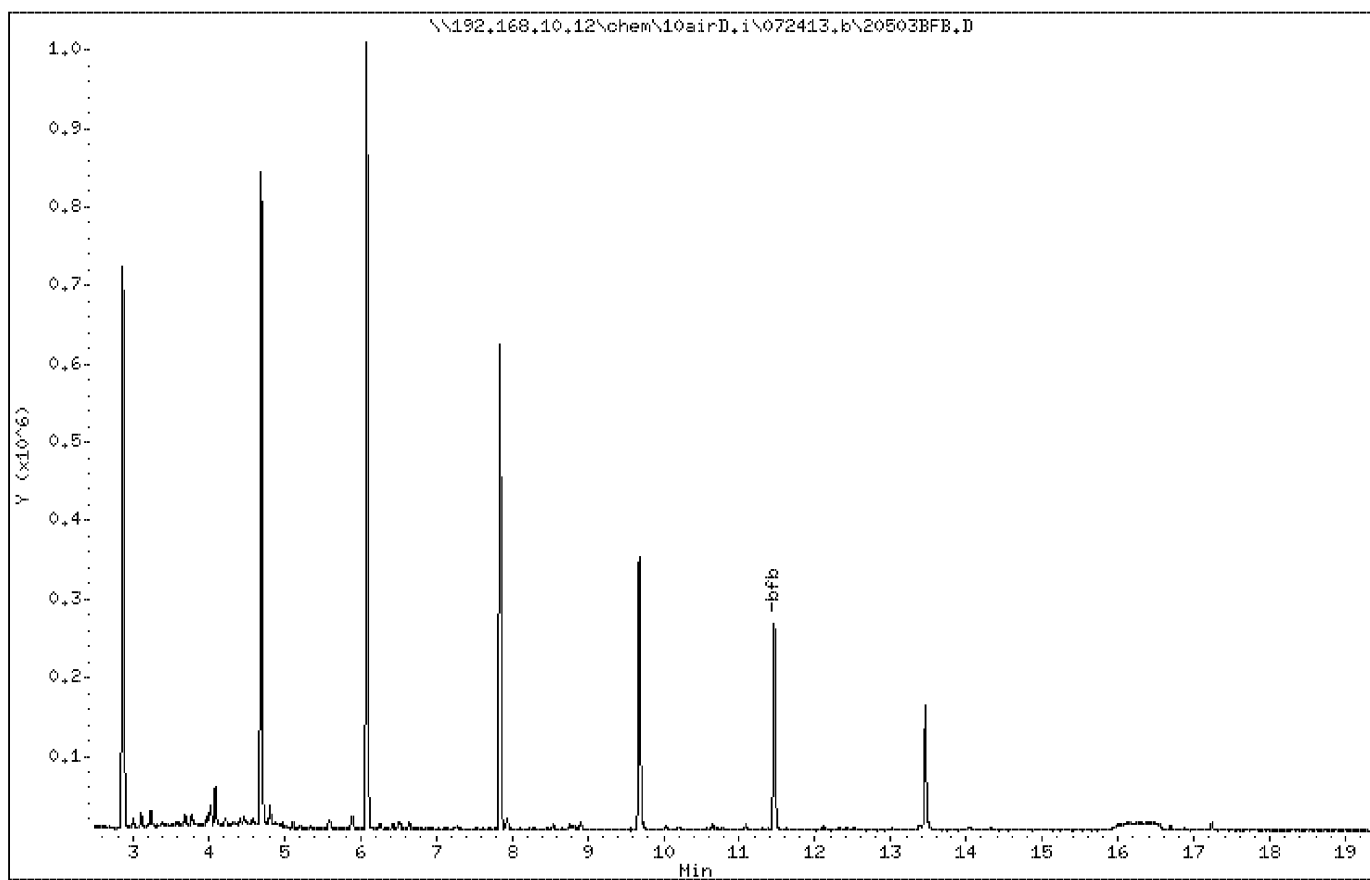
Instrument: 10airD,i

Sample Info:

Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32



Date : 24-JUL-2013 13:45

Client ID: BFB

Instrument: 10airD.i

Sample Info:

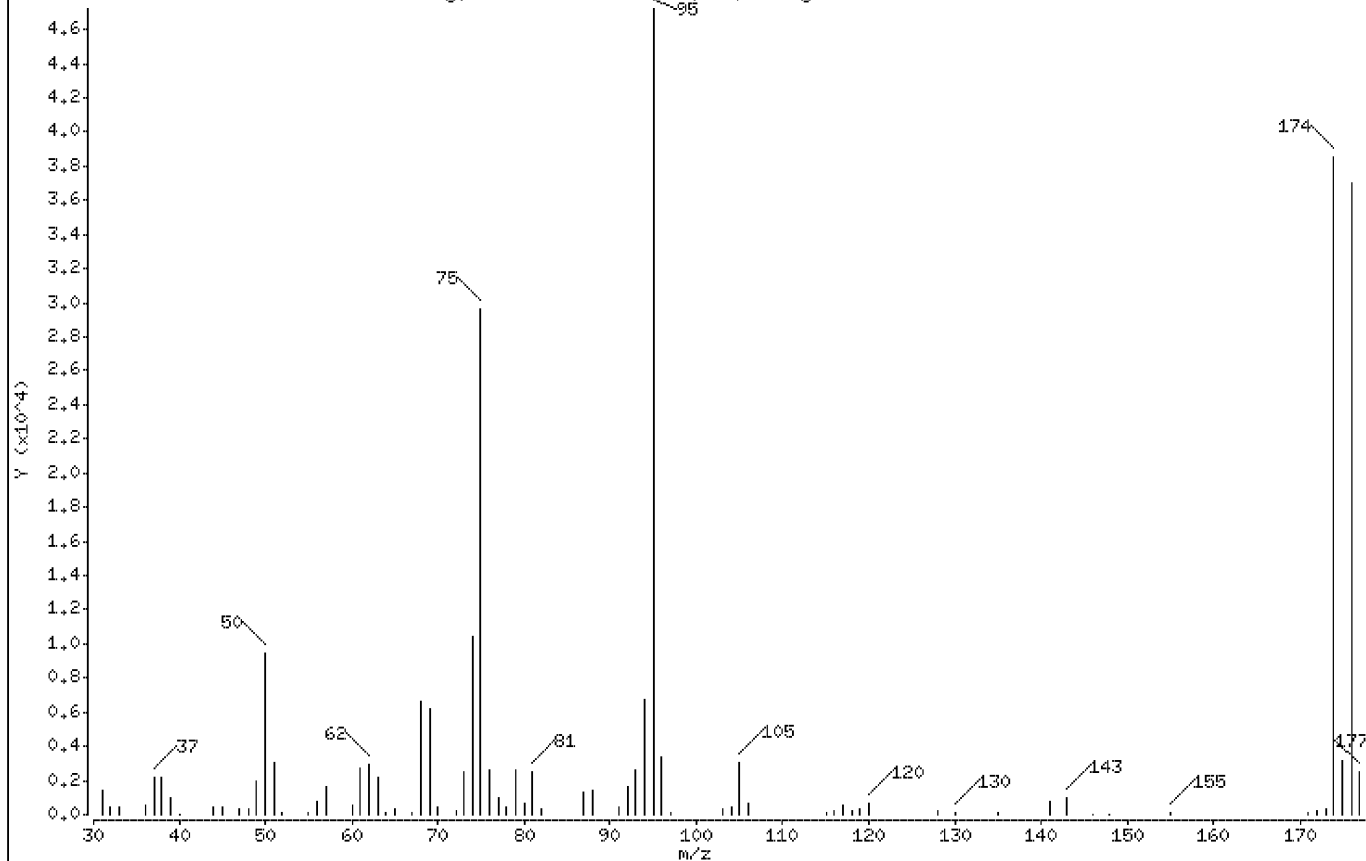
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb

Avg. Scans 2736-2738 (11.46), Background Scan 2723



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	20.02
75	30.00 - 66.00% of mass 95	62.66
96	5.00 - 9.00% of mass 95	7.03
173	Less than 2.00% of mass 174	0.63 (0.78)
174	50.00 - 120.00% of mass 95	81.70
175	4.00 - 9.00% of mass 174	6.61 (8.09)
176	93.00 - 101.00% of mass 174	78.31 (95.85)
177	5.00 - 9.00% of mass 176	5.32 (6.79)

Date : 24-JUL-2013 13:45

Client ID: BFB

Instrument: 10airD.i

Sample Info:

Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

Data File: 20503BFB.D

Spectrum: Avg. Scans 2736-2738 (11.46), Background Scan 2723

Location of Maximum: 95.00

Number of points: 74

m/z	Y	m/z	Y	m/z	Y	m/z	Y
31.00	1435	60.00	588	81.00	2521	119.00	378
32.00	386	61.00	2704	82.00	336	120.00	687
33.00	398	62.00	2927	87.00	1273	128.00	203
36.00	551	63.00	2224	88.00	1366	130.00	71
37.00	2215	64.00	130	91.00	439	135.00	61
38.00	2200	65.00	335	92.00	1604	141.00	774
39.00	1011	67.00	107	93.00	2601	143.00	944
40.00	12	68.00	6577	94.00	6711	146.00	51
44.00	433	69.00	6137	95.00	47216	148.00	52
45.00	448	70.00	487	96.00	3320	155.00	57
47.00	299	72.00	235	97.00	59	171.00	93
48.00	310	73.00	2498	103.00	339	172.00	204
49.00	2007	74.00	10422	104.00	449	173.00	299
50.00	9453	75.00	29584	105.00	3041	174.00	38576
51.00	3006	76.00	2637	106.00	611	175.00	3122
52.00	111	77.00	949	115.00	115	176.00	36976
55.00	114	78.00	461	116.00	169	177.00	2511
56.00	805	79.00	2655	117.00	498		
57.00	1607	80.00	623	118.00	217		

Date : 25-JUL-2013 12:41

Client ID: BFB

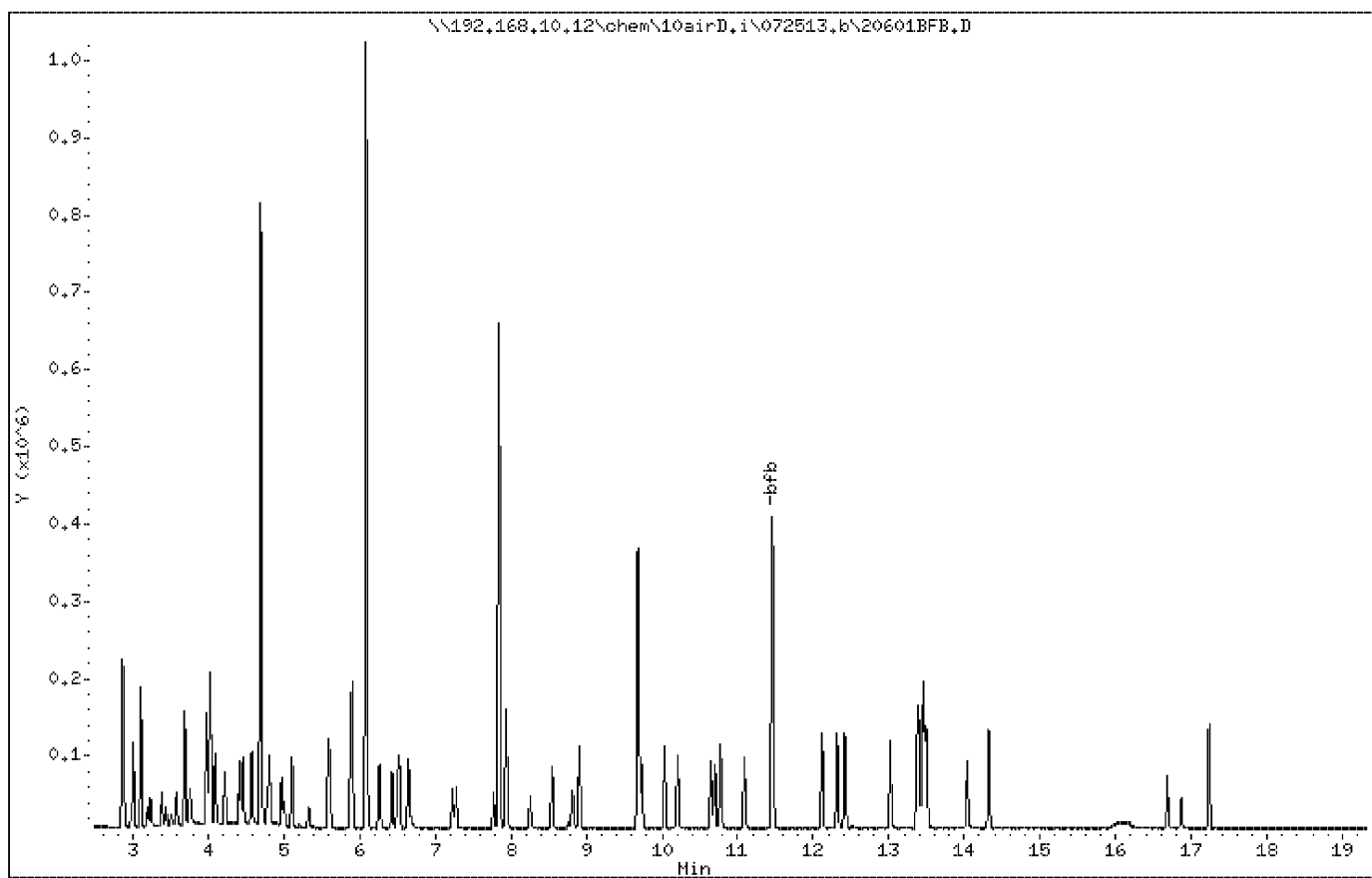
Instrument: 10airD,i

Sample Info:

Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32



Date : 25-JUL-2013 12:41

Client ID: BFB

Instrument: 10airD.i

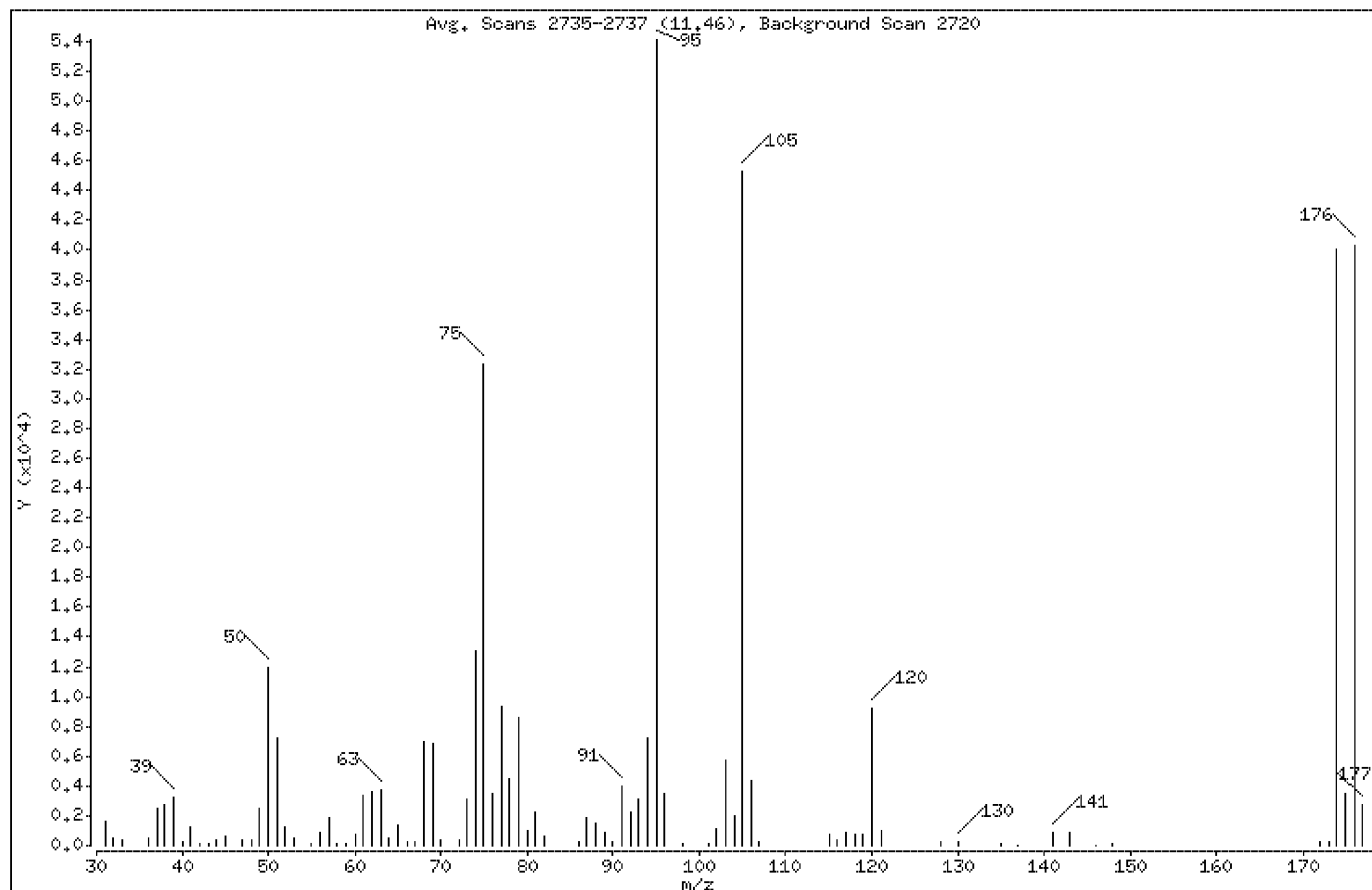
Sample Info:

Operator: DR1

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	22.16
75	30.00 - 66.00% of mass 95	59.70
96	5.00 - 9.00% of mass 95	6.49
173	Less than 2.00% of mass 174	0.42 (0.57)
174	50.00 - 120.00% of mass 95	73.98
175	4.00 - 9.00% of mass 174	6.44 (8.70)
176	93.00 - 101.00% of mass 174	74.54 (100.76)
177	5.00 - 9.00% of mass 176	5.08 (6.82)

Date : 25-JUL-2013 12:41

Client ID: BFB

Instrument: 10airD.i

Sample Info:

Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

Data File: 20601BFB.D

Spectrum: Avg. Scans 2735-2737 (11.46), Background Scan 2720

Location of Maximum: 95.00

Number of points: 87

m/z	Y	m/z	Y	m/z	Y	m/z	Y
31.00	1567	57.00	1843	80.00	1003	115.00	706
32.00	554	58.00	176	81.00	2272	116.00	370
33.00	420	59.00	156	82.00	580	117.00	813
36.00	508	60.00	685	86.00	230	118.00	695
37.00	2434	61.00	3337	87.00	1859	119.00	760
38.00	2726	62.00	3613	88.00	1542	120.00	9198
39.00	3205	63.00	3780	89.00	888	121.00	937
40.00	270	64.00	554	90.00	190	128.00	249
41.00	1205	65.00	1374	91.00	3936	130.00	187
42.00	122	66.00	208	92.00	2285	135.00	88
43.00	70	67.00	212	93.00	3140	137.00	51
44.00	434	68.00	7007	94.00	7268	141.00	872
45.00	564	69.00	6898	95.00	54112	143.00	849
47.00	418	70.00	402	96.00	3511	146.00	51
48.00	354	72.00	362	98.00	133	148.00	146
49.00	2507	73.00	3159	101.00	175	172.00	282
50.00	11991	74.00	13013	102.00	1107	173.00	227
51.00	7253	75.00	32304	103.00	5693	174.00	40032
52.00	1271	76.00	3437	104.00	1962	175.00	3484
53.00	492	77.00	9380	105.00	45312	176.00	40336
55.00	72	78.00	4527	106.00	4408	177.00	2751
56.00	910	79.00	8624	107.00	203		

Date : 26-JUL-2013 10:59

Client ID: BFB

Instrument: 10airD,i

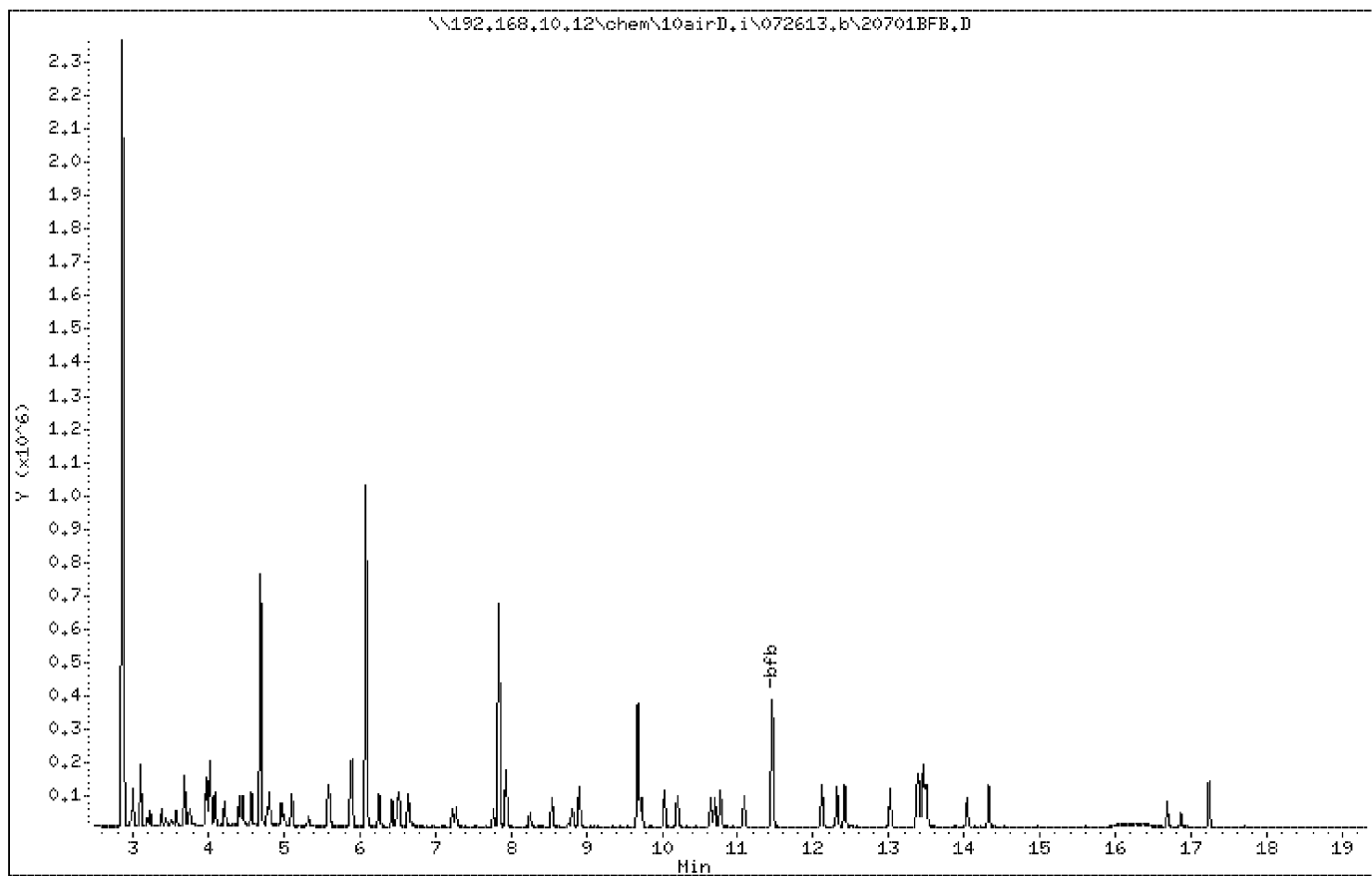
Sample Info:

Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

\\192.168.10.12\chem\10airD,i\072613,b\20701BFB,D



Date : 26-JUL-2013 10:59

Client ID: BFB

Instrument: 10airD.i

Sample Info:

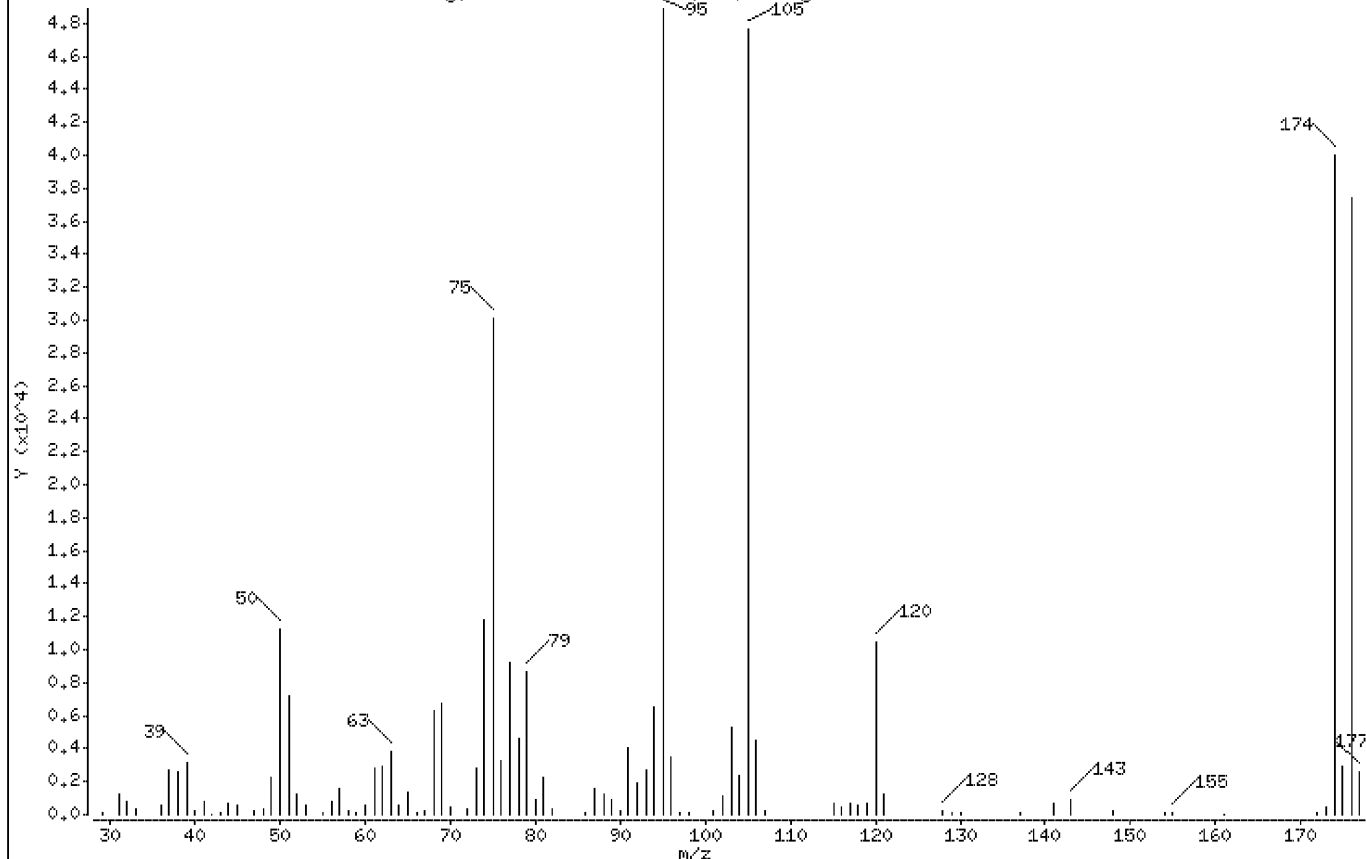
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb

Avg. Scans 2734-2736 (11.46), Background Scan 2719



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	22.94
75	30.00 - 66.00% of mass 95	61.54
96	5.00 - 9.00% of mass 95	7.02
173	Less than 2.00% of mass 174	0.96 (1.17)
174	50.00 - 120.00% of mass 95	81.95
175	4.00 - 9.00% of mass 174	6.06 (7.39)
176	93.00 - 101.00% of mass 174	76.55 (93.41)
177	5.00 - 9.00% of mass 176	5.31 (6.93)

Date : 26-JUL-2013 10:59

Client ID: BFB

Instrument: 10airD.i

Sample Info:

Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

Data File: 20701BFB.D

Spectrum: Avg. Scans 2734-2736 (11.46), Background Scan 2719

Location of Maximum: 95.00

Number of points: 91

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	106	57.00	1625	81.00	2263	116.00	438
31.00	1274	58.00	230	82.00	365	117.00	657
32.00	793	59.00	139	86.00	111	118.00	606
33.00	367	60.00	528	87.00	1532	119.00	656
36.00	540	61.00	2799	88.00	1259	120.00	10410
37.00	2647	62.00	2932	89.00	852	121.00	1244
38.00	2530	63.00	3774	90.00	224	128.00	169
39.00	3197	64.00	512	91.00	4063	129.00	57
40.00	241	65.00	1353	92.00	1929	130.00	120
41.00	812	66.00	92	93.00	2715	137.00	124
42.00	53	67.00	265	94.00	6465	141.00	723
43.00	127	68.00	6272	95.00	48880	143.00	890
44.00	700	69.00	6789	96.00	3429	148.00	200
45.00	562	70.00	448	97.00	60	154.00	62
47.00	228	72.00	313	98.00	59	155.00	118
48.00	283	73.00	2835	101.00	183	161.00	53
49.00	2243	74.00	11792	102.00	1097	172.00	61
50.00	11211	75.00	30080	103.00	5291	173.00	468
51.00	7201	76.00	3289	104.00	2342	174.00	40056
52.00	1209	77.00	9256	105.00	47632	175.00	2962
53.00	516	78.00	4557	106.00	4525	176.00	37416
55.00	77	79.00	8674	107.00	220	177.00	2594
56.00	802	80.00	850	115.00	717		

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airD.i Injection Date: 25-JUL-2013 13:08
 Lab File ID: 20602.d Init. Cal. Date(s): 24-JUL-2013 24-JUL-2013
 Analysis Type: AIR Init. Cal. Times: 14:12 16:39
 Lab Sample ID: CCAL Quant Type: ISTD
 Method: \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Propylene	10.00000	9.86590	0.12374	0.010	-1.34101	30.00000	Linear
2 Dichlorodifluoromethane	1.21581	1.13984	1.13984	0.010	-6.24859	30.00000	Averaged
3 Dichlorotetrafluoroethane	0.97696	0.91327	0.91327	0.010	-6.51927	30.00000	Averaged
4 Chloromethane	0.27759	0.25982	0.25982	0.010	-6.39948	30.00000	Averaged
5 Vinyl chloride	0.27680	0.26711	0.26711	0.010	-3.49996	30.00000	Averaged
6 1,3-Butadiene	0.16338	0.16139	0.16139	0.010	-1.21570	30.00000	Averaged
7 Bromomethane	0.34859	0.32098	0.32098	0.010	-7.92056	30.00000	Averaged
8 Chloroethane	0.14158	0.13091	0.13091	0.010	-7.53589	30.00000	Averaged
9 Ethanol	0.14485	0.15347	0.15347	0.100	5.95733	30.00000	Averaged
10 Vinyl Bromide	0.34468	0.32740	0.32740	0.010	-5.01552	30.00000	Averaged
11 Acrolein	10.00000	9.82560	0.09242	0.010	-1.74402	30.00000	Linear
12 Trichlorofluoromethane	1.32254	1.21525	1.21525	0.010	-8.11233	30.00000	Averaged
13 Acetone	0.66294	0.55478	0.55478	0.010	-16.31617	30.00000	Averaged
14 Isopropyl Alcohol	0.43481	0.42843	0.42843	0.010	-1.46824	30.00000	Averaged
15 1,1-Dichloroethene	0.58817	0.56757	0.56757	0.010	-3.50203	30.00000	Averaged
16 Acrylonitrile	10.00000	9.81192	0.19218	0.010	-1.88085	30.00000	Linear
17 Tert Butyl Alcohol	0.69550	0.66689	0.66689	0.100	-4.11235	30.00000	Averaged
18 Freon 113	0.88260	0.82709	0.82709	0.010	-6.28887	30.00000	Averaged
19 Methylene chloride	0.37560	0.34247	0.34247	0.010	-8.82079	30.00000	Averaged
20 Allyl Chloride	0.14093	0.14363	0.14363	0.010	1.91489	30.00000	Averaged
21 Carbon Disulfide	1.09302	0.99789	0.99789	0.010	-8.70293	30.00000	Averaged
22 trans-1,2-dichloroethene	0.37789	0.36658	0.36658	0.010	-2.99154	30.00000	Averaged
23 Methyl Tert Butyl Ether	0.93229	0.96008	0.96008	0.010	2.98141	30.00000	Averaged
24 Vinyl Acetate	10.00000	9.79759	0.69690	0.010	-2.02406	30.00000	Linear
25 1,1-Dichloroethane	0.65620	0.64146	0.64146	0.010	-2.24611	30.00000	Averaged
26 Hexane-d14(S)	0.48289	0.45235	0.45235	0.200	-6.32498	30.00000	Averaged
27 Methyl Ethyl Ketone	0.15348	0.16161	0.16161	0.010	5.29290	30.00000	Averaged
28 n-Hexane	0.43898	0.42096	0.42096	0.010	-4.10585	30.00000	Averaged
29 cis-1,2-Dichloroethene	10.00000	9.88721	0.34213	0.010	-1.12789	30.00000	Linear
30 Ethyl Acetate	10.00000	9.84445	0.49423	0.010	-1.55546	30.00000	Linear
31 Chloroform	0.81714	0.83442	0.83442	0.010	2.11439	30.00000	Averaged
32 Tetrahydrofuran	10.00000	9.88538	0.19500	0.010	-1.14622	30.00000	Linear
33 1,1,1-Trichloroethane	0.87607	0.91853	0.91853	0.010	4.84686	30.00000	Averaged
34 1,2-Dichloroethane	0.60681	0.63127	0.63127	0.010	4.02999	30.00000	Averaged
35 Benzene	10.00000	9.52375	0.85439	0.300	-4.76253	30.00000	Linear
36 Carbon tetrachloride	0.94083	0.98326	0.98326	0.010	4.50922	30.00000	Averaged
37 Cyclohexane	10.00000	9.35800	0.31686	0.010	-6.42004	30.00000	Linear
39 2,2,4-Trimethylpentane	10.00000	9.64286	1.00269	0.010	-3.57144	30.00000	Linear
40 Heptane	10.00000	9.44060	0.32016	0.010	-5.59397	30.00000	Linear
41 1,2-Dichloropropane	10.00000	9.57040	0.26064	0.010	-4.29604	30.00000	Linear
42 Trichloroethene	10.00000	9.33880	0.34235	0.010	-6.61195	30.00000	Linear
43 1,4-Dioxane	10.00000	10.40616	0.16717	0.010	4.06162	30.00000	Linear
44 Bromodichloromethane	10.00000	10.02806	0.92634	0.010	0.28065	30.00000	Linear

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airD.i Injection Date: 25-JUL-2013 13:08
 Lab File ID: 20602.d Init. Cal. Date(s): 24-JUL-2013 24-JUL-2013
 Analysis Type: AIR Init. Cal. Times: 14:12 16:39
 Lab Sample ID: CCAL Quant Type: ISTD
 Method: \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
45 Methyl Isobutyl Ketone	10.00000	9.73183	0.47771	0.010	-2.68169	30.00000	Linear
46 cis-1,3-Dichloropropene	10.00000	9.83676	0.50012	0.010	-1.63238	30.00000	Linear
47 trans-1,3-Dichloropropene	10.00000	9.70777	0.56514	0.010	-2.92225	30.00000	Linear
48 Toluene-d8 (S)	0.69840	0.71301	0.71301	0.200	2.09238	30.00000	Averaged
49 Toluene	10.00000	9.52756	1.11642	0.300	-4.72441	30.00000	Linear
50 1,1,2-Trichloroethane	10.00000	9.37789	0.38119	0.010	-6.22111	30.00000	Linear
51 Methyl Butyl Ketone	10.00000	10.28491	1.30104	0.010	2.84911	30.00000	Linear
52 Dibromochloromethane	10.00000	10.36308	1.97970	0.010	3.63078	30.00000	Linear
53 1,2-Dibromoethane	10.00000	10.16279	1.65750	0.010	1.62793	30.00000	Linear
54 Tetrachloroethene	10.00000	9.87631	1.51461	0.010	-1.23688	30.00000	Linear
56 Chlorobenzene	10.00000	10.05883	2.01779	0.010	0.58833	30.00000	Linear
57 Ethyl Benzene	10.00000	10.20189	3.90698	0.300	2.01887	30.00000	Linear
58 m&p-Xylene	10.00000	10.19958	3.11244	0.300	1.99575	30.00000	Linear
59 Bromoform	10.00000	10.08342	2.08268	0.010	0.83423	30.00000	Linear
60 Styrene	10.00000	9.95082	2.00261	0.010	-0.49175	30.00000	Linear
61 o-Xylene	10.00000	10.28015	3.26853	0.300	2.80154	30.00000	Linear
62 1,1,2,2-Tetrachloroethane	10.00000	10.07166	1.85422	0.010	0.71661	30.00000	Linear
63 Isopropylbenzene	10.00000	10.25177	4.12773	0.010	2.51769	30.00000	Linear
64 N-Propylbenzene	10.00000	10.29390	4.95752	0.010	2.93899	30.00000	Linear
65 4-Ethyltoluene	10.00000	10.20646	3.81773	0.010	2.06465	30.00000	Linear
66 1,3,5-Trimethylbenzene	10.00000	10.24346	3.37495	0.010	2.43464	30.00000	Linear
67 1,2,4-Trimethylbenzene	10.00000	10.08199	3.18090	0.010	0.81994	30.00000	Linear
68 1,3-Dichlorobenzene	10.00000	9.93065	1.92654	0.010	-0.69353	30.00000	Linear
69 Sec- Butylbenzene	10.00000	10.19955	4.48739	0.010	1.99552	30.00000	Linear
70 1,4-dichlorobenzene-d4 (S)	0.40365	0.42288	0.42288	0.200	4.76481	30.00000	Averaged
71 Benzyl Chloride	10.00000	9.99918	2.72583	0.010	-0.00824	30.00000	Linear
72 1,4-Dichlorobenzene	10.00000	9.94269	1.88237	0.010	-0.57313	30.00000	Linear
73 1,2-Dichlorobenzene	10.00000	10.15983	1.63297	0.010	1.59831	30.00000	Linear
74 N-Butylbenzene	10.00000	10.42549	3.51932	0.010	4.25485	30.00000	Linear
75 1,2,4-Trichlorobenzene	10.00000	10.75219	1.10162	0.010	7.52193	30.00000	Quadratic
76 Naphthalene	10.00000	11.03420	1.74567	0.010	10.34204	30.00000	Quadratic
77 Hexachlorobutadiene	10.00000	10.20176	1.27624	0.010	2.01757	30.00000	Linear

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 3.72032
 Maximum Average %D/Drift = 30.00000
 * Passed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20602.d
 Report Date: 25-Jul-2013 13:31

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072513.b\20602.d
 Lab Smp Id: CCAL
 Inj Date : 25-JUL-2013 13:08
 Operator : DR1 Inst ID: 10airD.i
 Smp Info :
 Misc Info :
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
 Meth Date : 25-Jul-2013 13:31 drandall Quant Type: ISTD
 Cal Date : 24-JUL-2013 16:39 Cal File: 20509.d
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10AIRPC4

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	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ppbv)	ON-COL (ppbv)
1 Propylene	41		2.978	2.982	(0.489)	75482	10.0000	9.86
2 Dichlorodifluoromethane	85		3.008	3.008	(0.494)	695301	10.0000	9.38
3 Dichlorotetrafluoroethane	85		3.103	3.107	(0.510)	557092	10.0000	9.35
4 Chloromethane	50		3.103	3.107	(0.510)	158492	10.0000	9.36
5 Vinyl chloride	62		3.191	3.195	(0.524)	162935	10.0000	9.65
6 1,3-Butadiene	54		3.234	3.238	(0.531)	98449	10.0000	9.88
7 Bromomethane	94		3.391	3.392	(0.557)	195796	10.0000	9.21
8 Chloroethane	64		3.447	3.448	(0.566)	79855	10.0000	9.25 (M)
9 Ethanol	31		3.496	3.494	(0.574)	93619	10.0000	10.6
10 Vinyl Bromide	106		3.585	3.585	(0.589)	199711	10.0000	9.50
11 Acrolein	56		3.683	3.684	(0.605)	56373	10.0000	9.82
12 Trichlorofluoromethane	101		3.693	3.694	(0.606)	741303	10.0000	9.19
13 Acetone	43		3.726	3.726	(0.612)	338413	10.0000	8.37
14 Isopropyl Alcohol	45		3.746	3.756	(0.615)	261340	10.0000	9.85
15 1,1-Dichloroethene	61		3.978	3.979	(0.653)	346218	10.0000	9.65
16 Acrylonitrile	53		3.982	3.985	(0.654)	117231	10.0000	9.81
17 Tert Butyl Alcohol	59		3.982	3.989	(0.654)	406804	10.0000	9.59 (M)
18 Freon 113	101		4.028	4.030	(0.661)	504525	10.0000	9.37
19 Methylene chloride	49		4.090	4.094	(0.672)	208908	10.0000	9.12
20 Allyl Chloride	76		4.100	4.107	(0.673)	87613	10.0000	10.2
21 Carbon Disulfide	76		4.224	4.224	(0.694)	608712	10.0000	9.13
22 trans-1,2-dichloroethene	96		4.418	4.422	(0.725)	223616	10.0000	9.70
23 Methyl Tert Butyl Ether	73		4.454	4.458	(0.731)	585648	10.0000	10.3 (M)

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
24 Vinyl Acetate	43		4.575	4.579	(0.751)	425105	10.0000	9.80	
25 1,1-Dichloroethane	63		4.579	4.582	(0.752)	391291	10.0000	9.78	
\$ 26 Hexane-d14 (S)	66		4.697	4.700	(0.771)	275933	10.0000	9.37	
27 Methyl Ethyl Ketone	72		4.775	4.779	(0.784)	98581	10.0000	10.5	
28 n-Hexane	57		4.815	4.818	(0.791)	256783	10.0000	9.59 (M)	
29 cis-1,2-Dichloroethene	96		4.972	4.979	(0.816)	208699	10.0000	9.89	
30 Ethyl Acetate	43		4.995	4.999	(0.820)	301480	10.0000	9.84 (M)	
31 Chloroform	83		5.113	5.120	(0.840)	508994	10.0000	10.2	
32 Tetrahydrofuran	42		5.310	5.310	(0.872)	118951	10.0000	9.88	
33 1,1,1-Trichloroethane	97		5.595	5.599	(0.919)	560301	10.0000	10.5	
34 1,2-Dichloroethane	62		5.612	5.619	(0.921)	385071	10.0000	10.4	
35 Benzene	78		5.880	5.887	(0.966)	521175	10.0000	9.52	
36 Carbon tetrachloride	117		5.903	5.907	(0.969)	599785	10.0000	10.4	
37 Cyclohexane	56		5.907	5.910	(0.970)	193283	10.0000	9.36	
* 38 1,4-Difluorobenzene	114		6.090	6.094	(1.000)	609998	10.0000		
39 2,2,4-Trimethylpentane	57		6.267	6.271	(1.029)	611636	10.0000	9.64	
40 Heptane	43		6.435	6.442	(1.057)	195298	10.0000	9.44	
41 1,2-Dichloropropane	63		6.507	6.514	(1.068)	158987	10.0000	9.57 (M)	
42 Trichloroethene	130		6.530	6.533	(1.072)	208832	10.0000	9.34	
43 1,4-Dioxane	88		6.648	6.652	(1.092)	101974	10.0000	10.4 (M)	
44 Bromodichloromethane	83		6.651	6.655	(1.092)	565063	10.0000	10.0	
45 Methyl Isobutyl Ketone	43		7.222	7.229	(1.186)	291402	10.0000	9.73	
46 cis-1,3-Dichloropropene	75		7.277	7.281	(1.195)	305073	10.0000	9.84	
47 trans-1,3-Dichloropropene	75		7.769	7.773	(1.276)	344734	10.0000	9.71	
\$ 48 Toluene-d8 (S)	98		7.845	7.848	(1.288)	434934	10.0000	10.2	
49 Toluene	91		7.933	7.940	(1.303)	681013	10.0000	9.53	
50 1,1,2-Trichloroethane	97		7.943	7.950	(1.304)	232525	10.0000	9.38	
51 Methyl Butyl Ketone	43		8.242	8.244	(0.851)	288670	10.0000	10.3	
52 Dibromochloromethane	129		8.553	8.560	(0.883)	439250	10.0000	10.4	
53 1,2-Dibromoethane	107		8.825	8.829	(0.911)	367762	10.0000	10.2	
54 Tetrachloroethene	166		8.914	8.918	(0.920)	336058	10.0000	9.88	
* 55 Chlorobenzene - d5	117		9.688	9.691	(1.000)	221877	10.0000		
56 Chlorobenzene	112		9.737	9.741	(1.005)	447702	10.0000	10.0	
57 Ethyl Benzene	91		10.035	10.039	(1.036)	866868	10.0000	10.2	
58 m&p-Xylene	91		10.206	10.213	(1.053)	690579	10.0000	10.2	
59 Bromoform	173		10.652	10.659	(1.100)	462098	10.0000	10.1	
60 Styrene	104		10.701	10.708	(1.105)	444333	10.0000	9.95	
61 o-Xylene	91		10.776	10.783	(1.112)	725211	10.0000	10.3	
62 1,1,2,2-Tetrachloroethane	83		11.088	11.095	(1.145)	411409	10.0000	10.1	
63 Isopropylbenzene	105		11.455	11.459	(1.182)	915849	10.0000	10.2	
64 N-Propylbenzene	91		12.114	12.121	(1.250)	1099960	10.0000	10.3 (M)	
65 4-Ethyltoluene	105		12.314	12.321	(1.271)	847066	10.0000	10.2	
66 1,3,5-Trimethylbenzene	105		12.419	12.426	(1.282)	748823	10.0000	10.2	
67 1,2,4-Trimethylbenzene	105		13.016	13.020	(1.344)	705769	10.0000	10.1	
68 1,3-Dichlorobenzene	146		13.367	13.374	(1.380)	427455	10.0000	9.93	
69 Sec- Butylbenzene	105		13.393	13.404	(1.382)	995649	10.0000	10.2	
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.449	13.459	(1.388)	93827	10.0000	10.5	
71 Benzyl Chloride	91		13.475	13.486	(1.391)	604799	10.0000	10.0	
72 1,4-Dichlorobenzene	146		13.498	13.509	(1.393)	417655	10.0000	9.94	
73 1,2-Dichlorobenzene	146		14.036	14.043	(1.449)	362318	10.0000	10.2	
74 N-Butylbenzene	91		14.321	14.325	(1.478)	780856	10.0000	10.4	
75 1,2,4-Trichlorobenzene	180		16.679	16.683	(1.722)	244424	10.0000	10.8	
76 Naphthalene	128		16.856	16.860	(1.740)	387324	10.0000	11.0	
77 Hexachlorobutadiene	225		17.233	17.236	(1.779)	283169	10.0000	10.2	

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Report Date: 25-Jul-2013 13:31

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20602.d
Report Date: 25-Jul-2013 13:31

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 20602.d
Lab Smp Id: CCAL
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
Misc Info:

Calibration Date: 24-JUL-2013
Calibration Time: 15:36

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	609998	5.21
55 Chlorobenzene - d	221404	132842	309966	221877	0.21

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	0.00
55 Chlorobenzene - d	9.69	9.36	10.02	9.69	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\072513.b\20602.D

Date : 25-JUL-2013 13:08

Client ID:

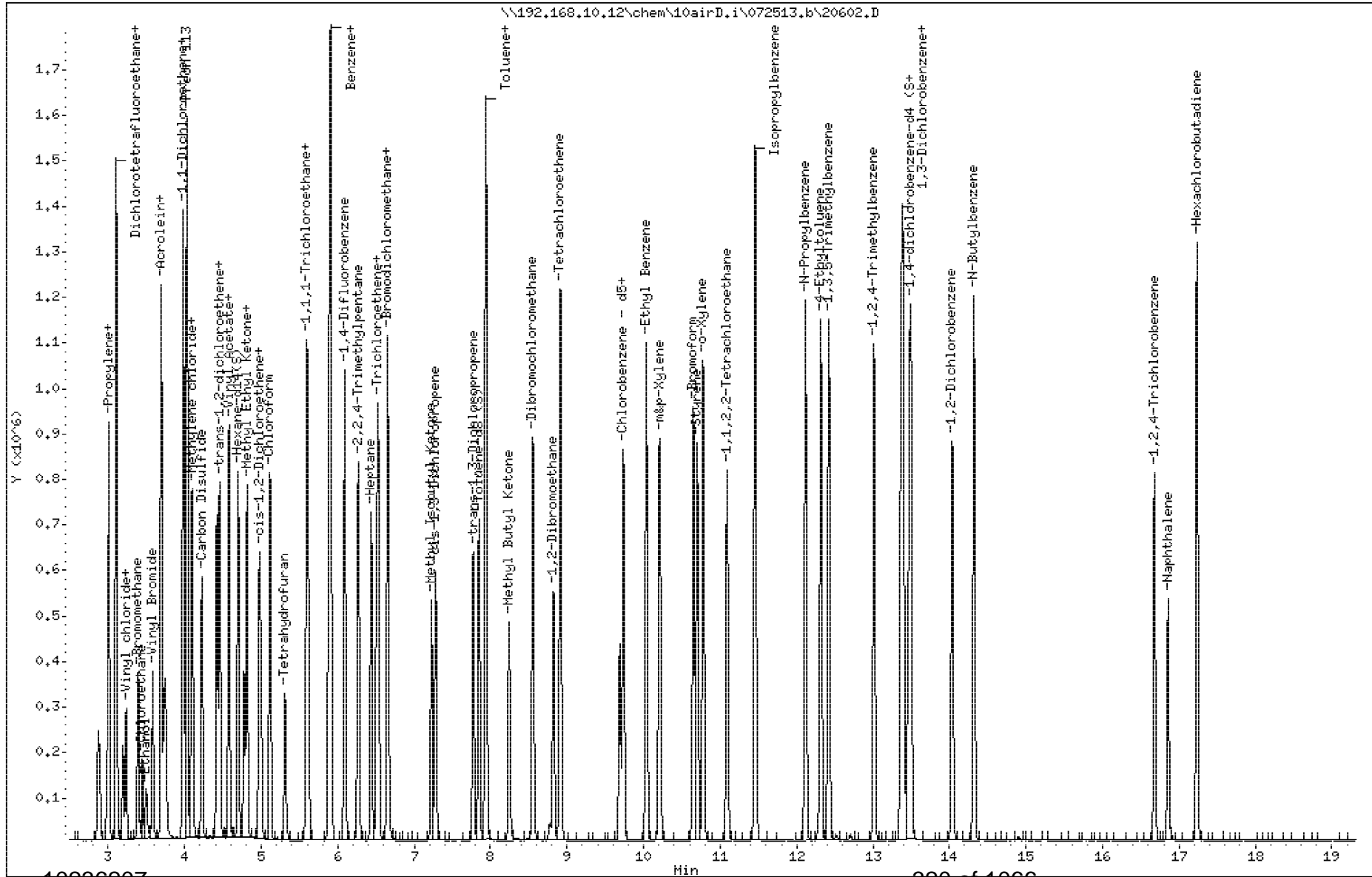
Instrument: 10airD.i

Sample Info:

Operator: DR1

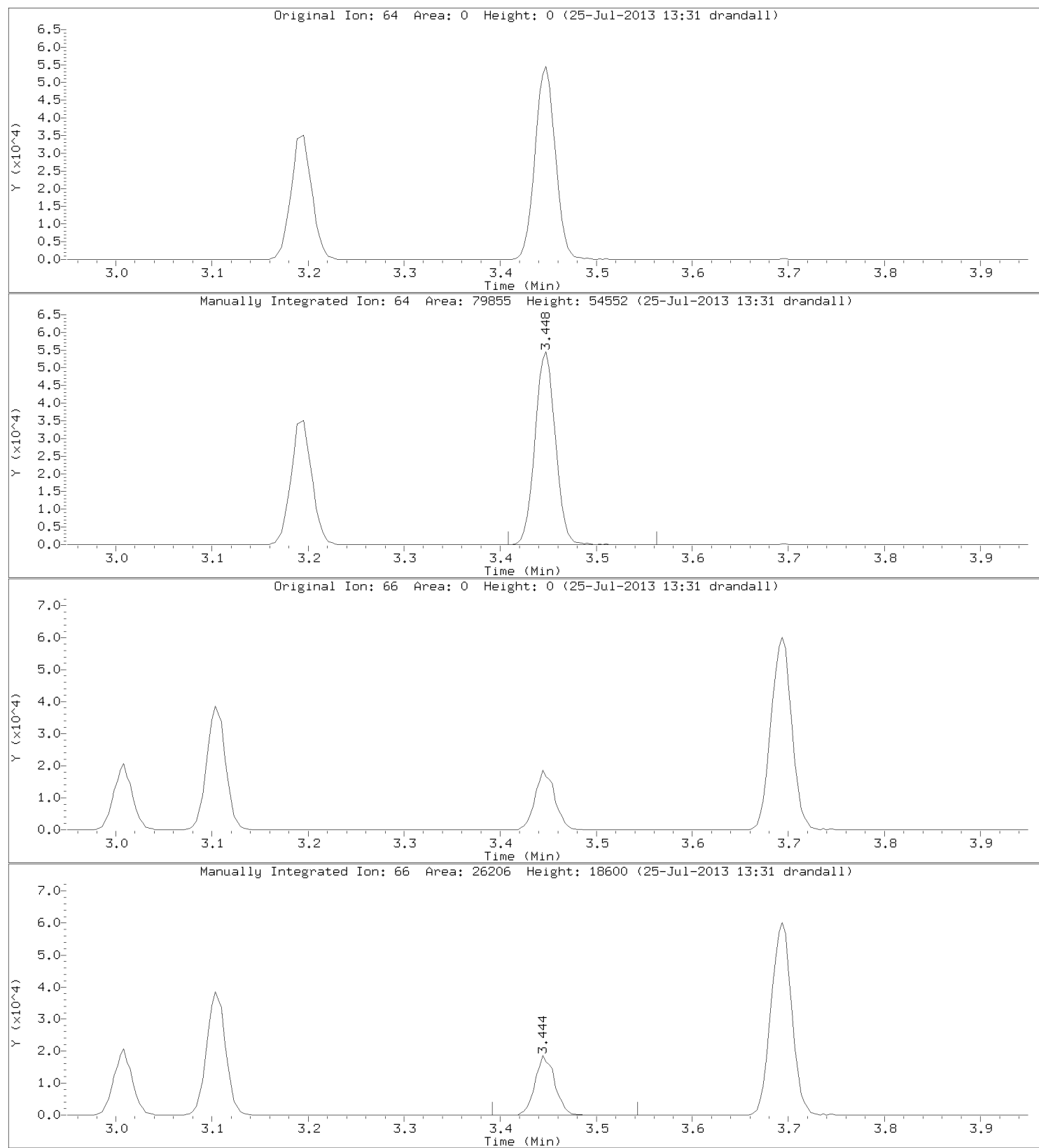
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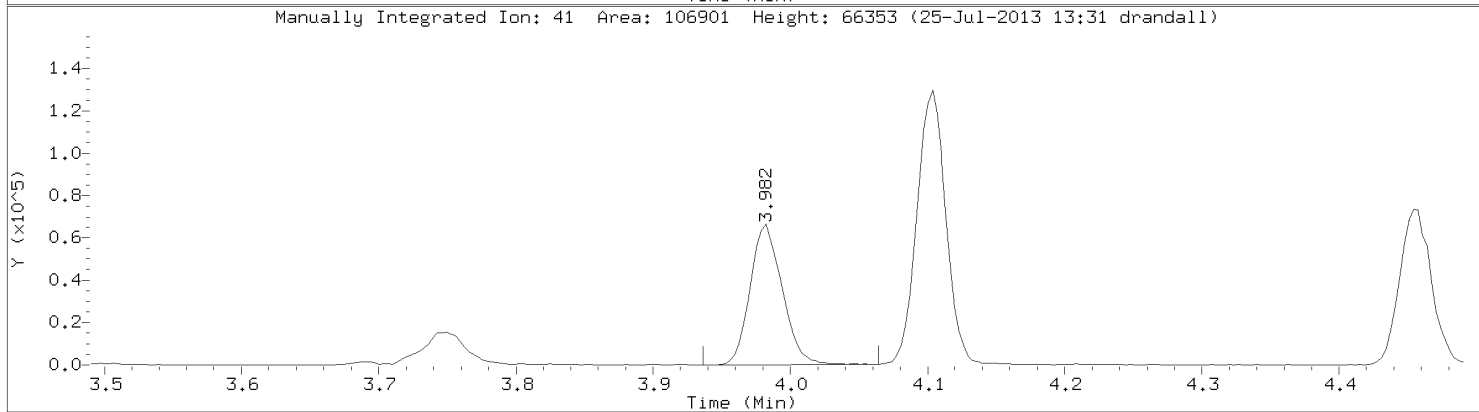
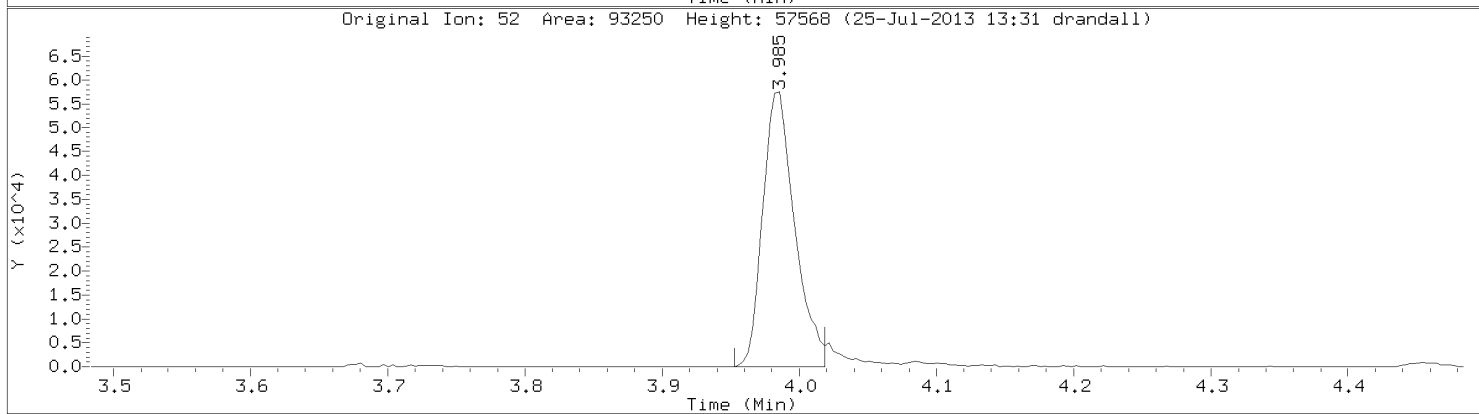
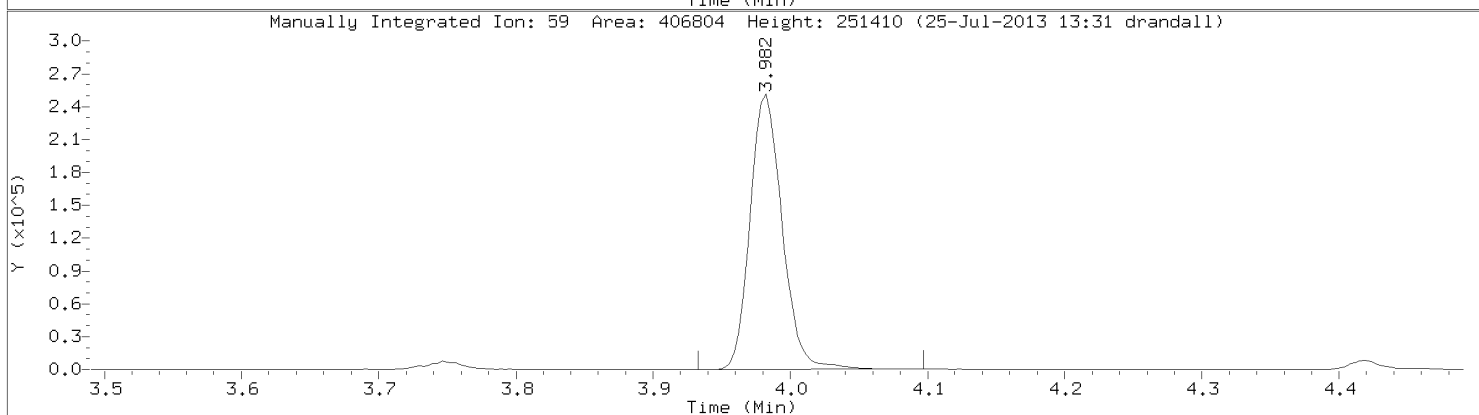
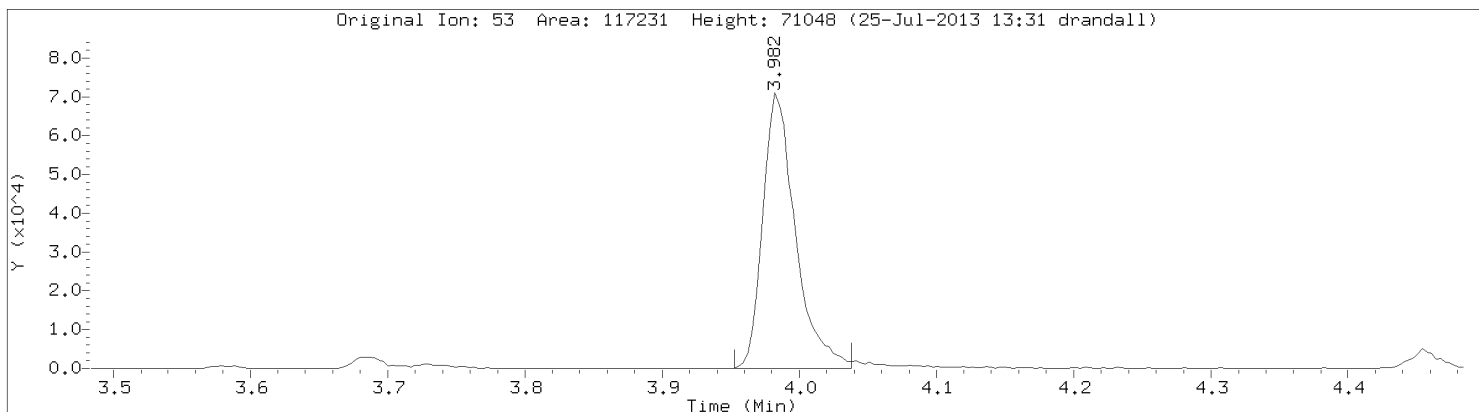
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Injection Date: 25-JUL-2013 13:08
Instrument: 10airD.i
Lab Sample ID: CCAL

Compound: Chloroethane
CAS Number: 75-00-3



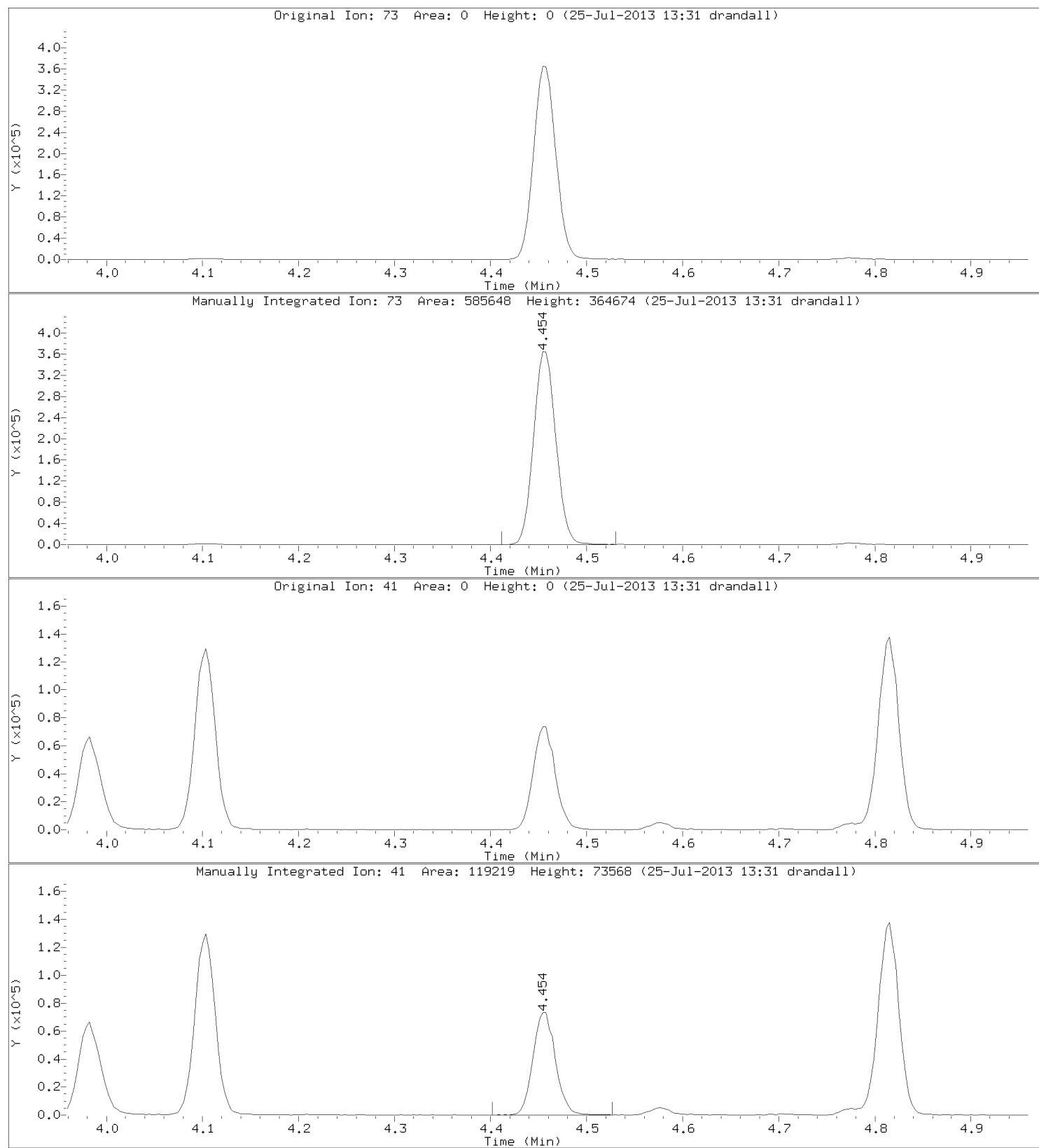
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Instrument: 10airD.i
Lab Sample ID: CCAL

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



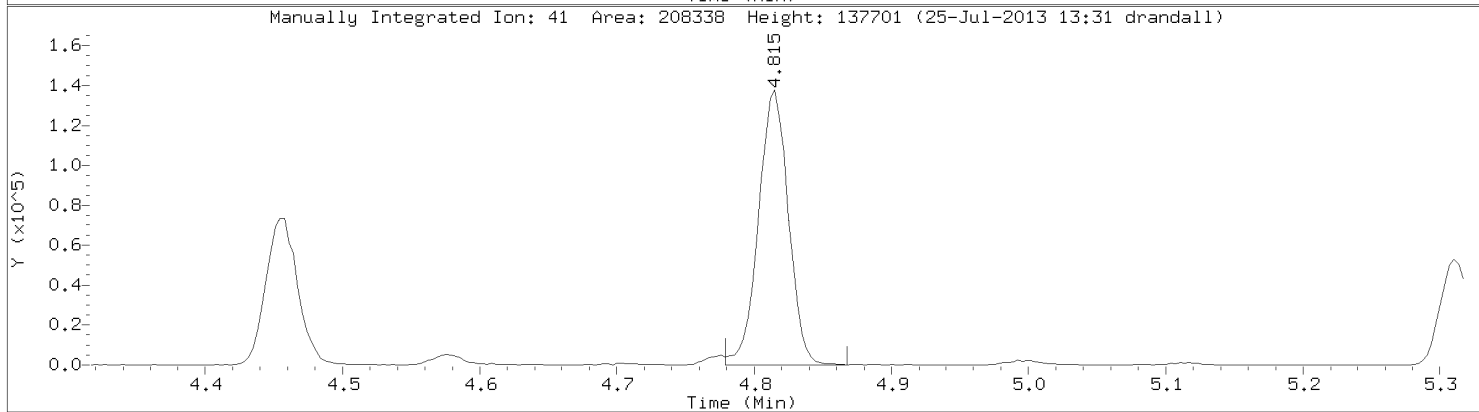
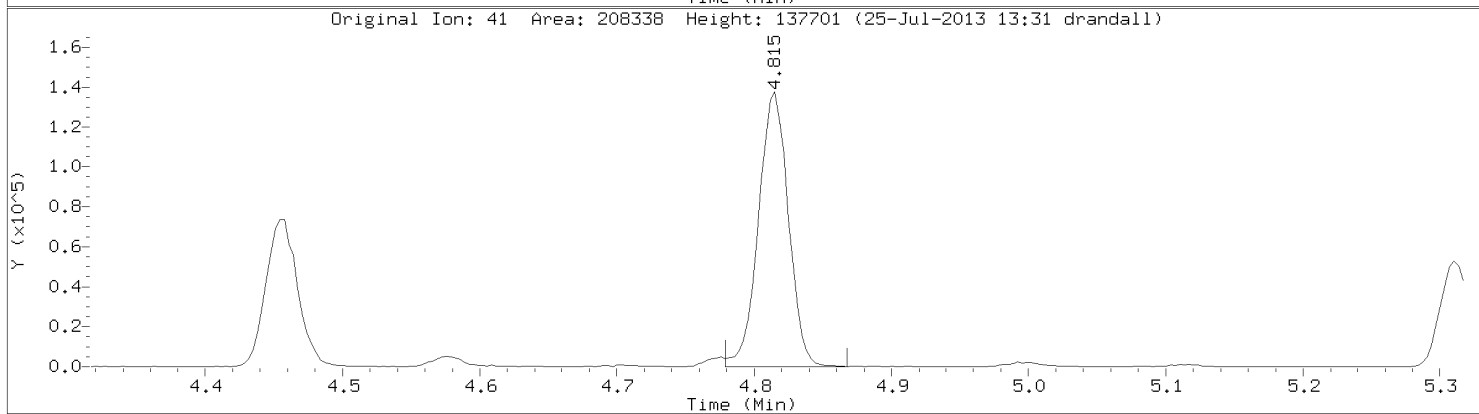
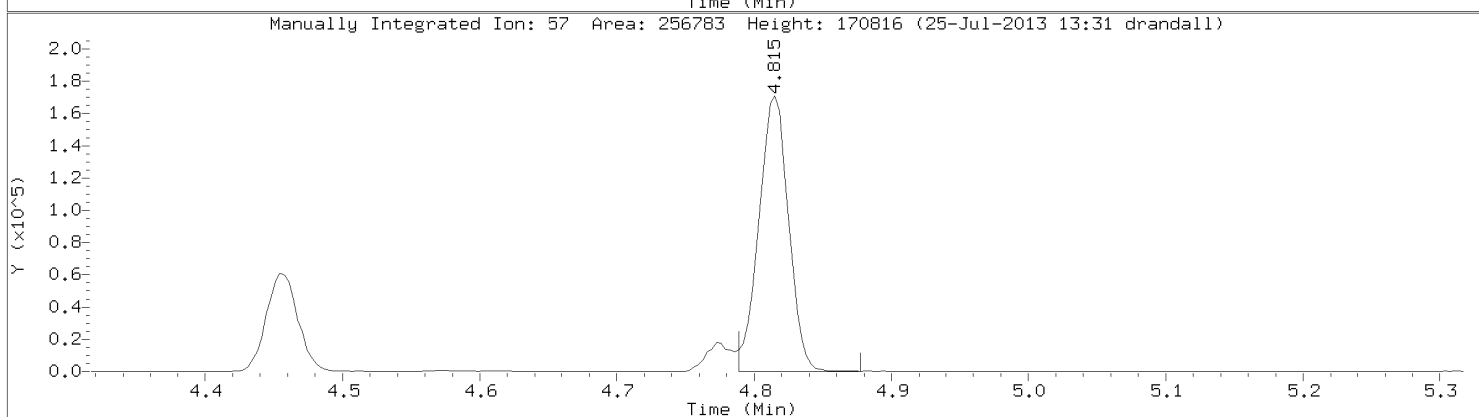
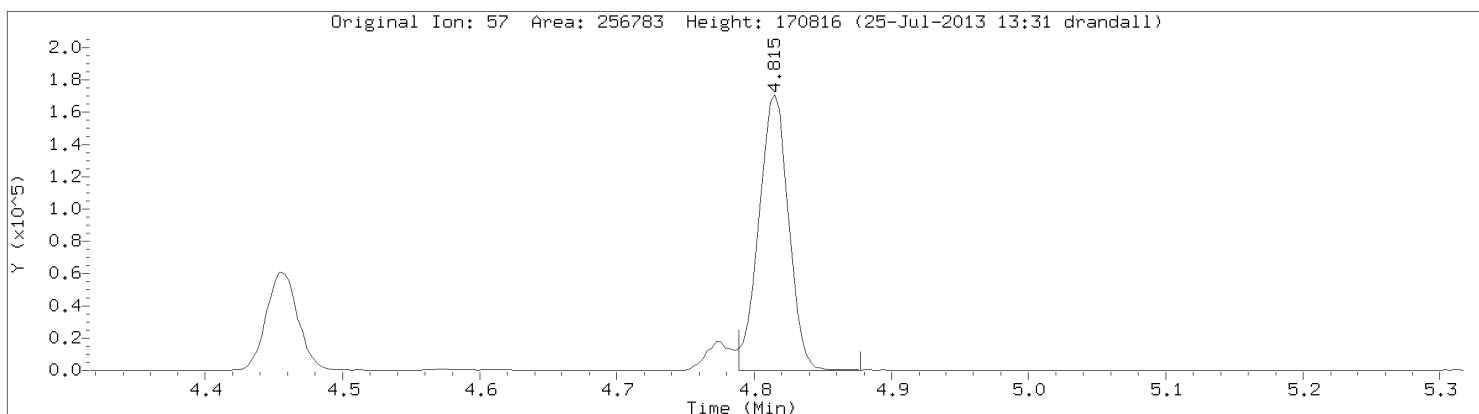
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Instrument: 10airD.i
Lab Sample ID: CCAL

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

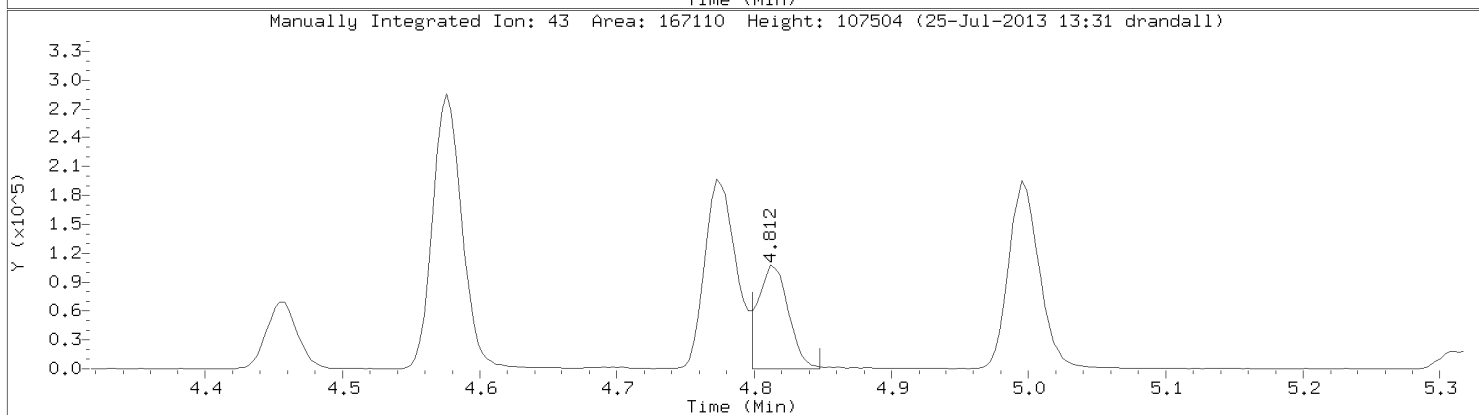
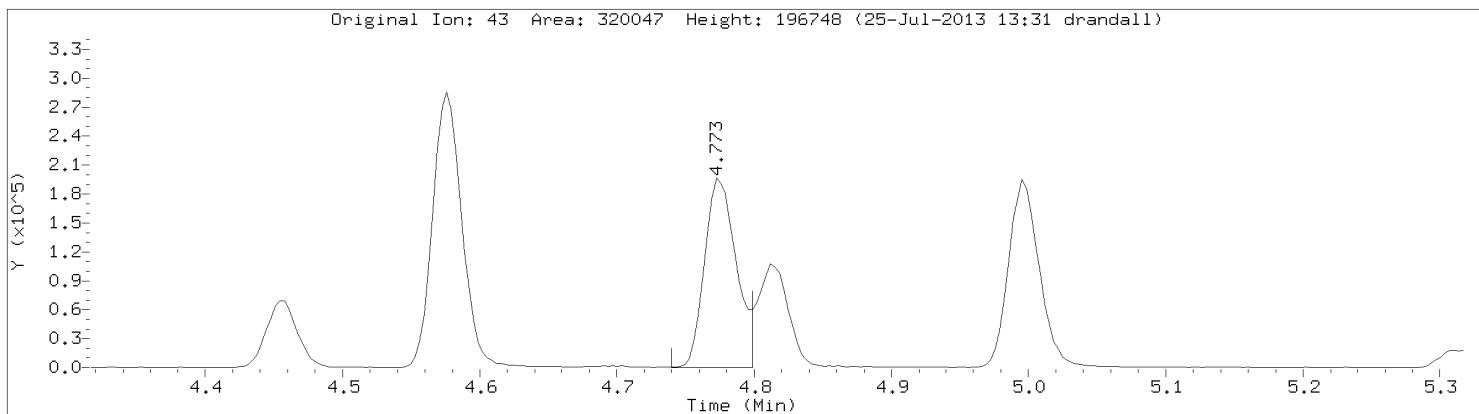


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Injection Date: 25-JUL-2013 13:08
Instrument: 10airD.i
Lab Sample ID: CCAL

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

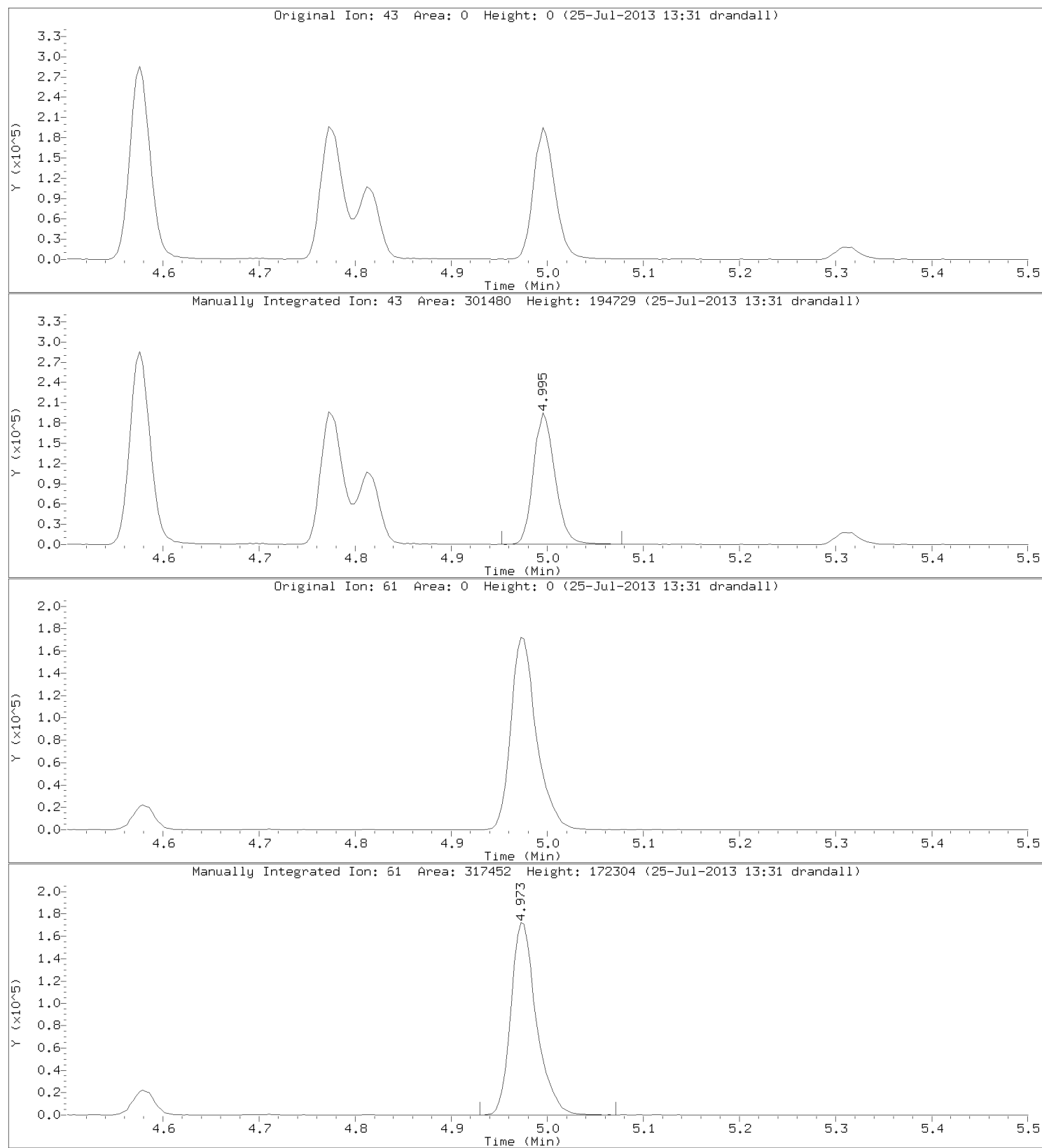


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Injection Date: 25-JUL-2013 13:08
Instrument: 10airD.i
Lab Sample ID: CCAL

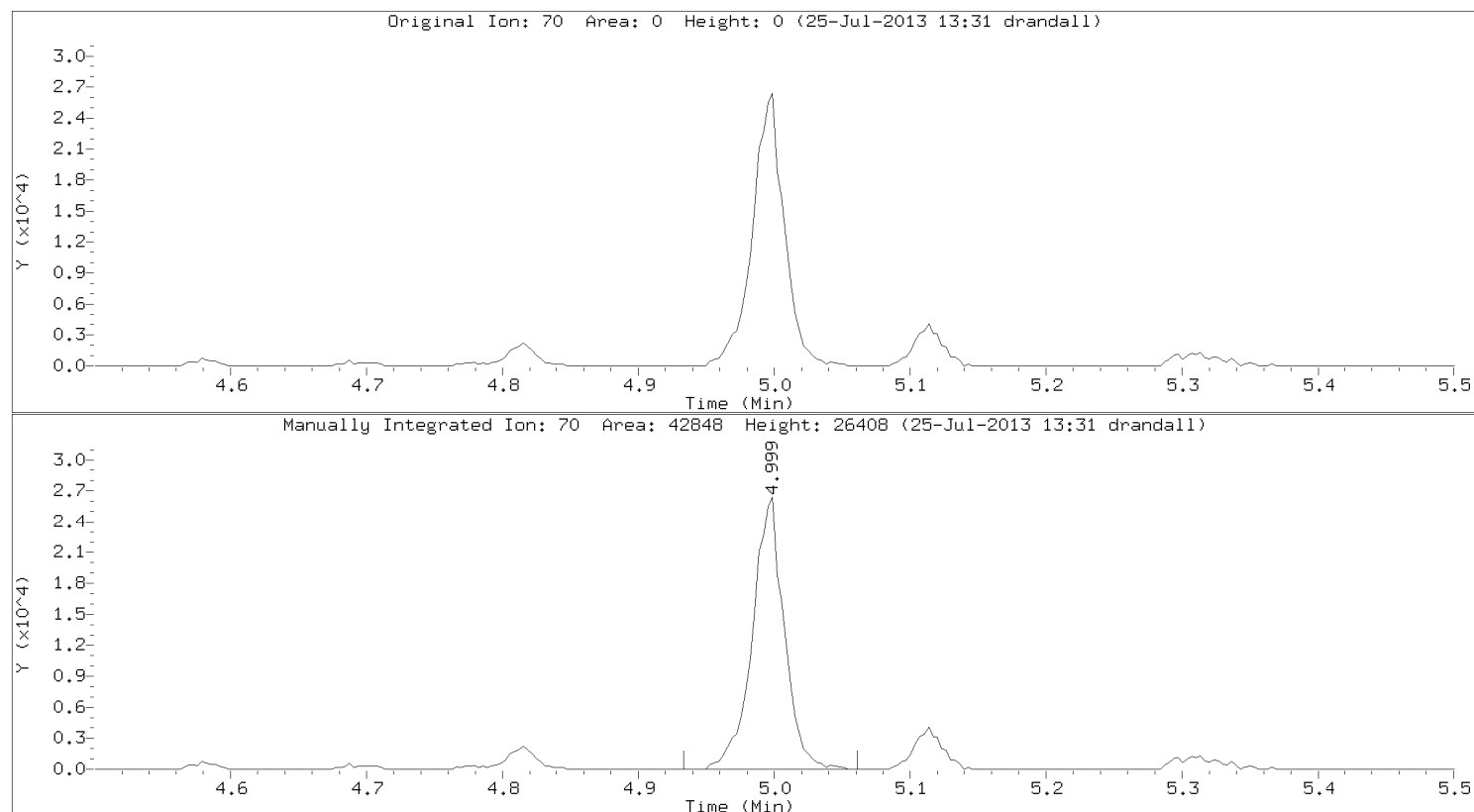


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Injection Date: 25-JUL-2013 13:08
Instrument: 10airD.i
Lab Sample ID: CCAL

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

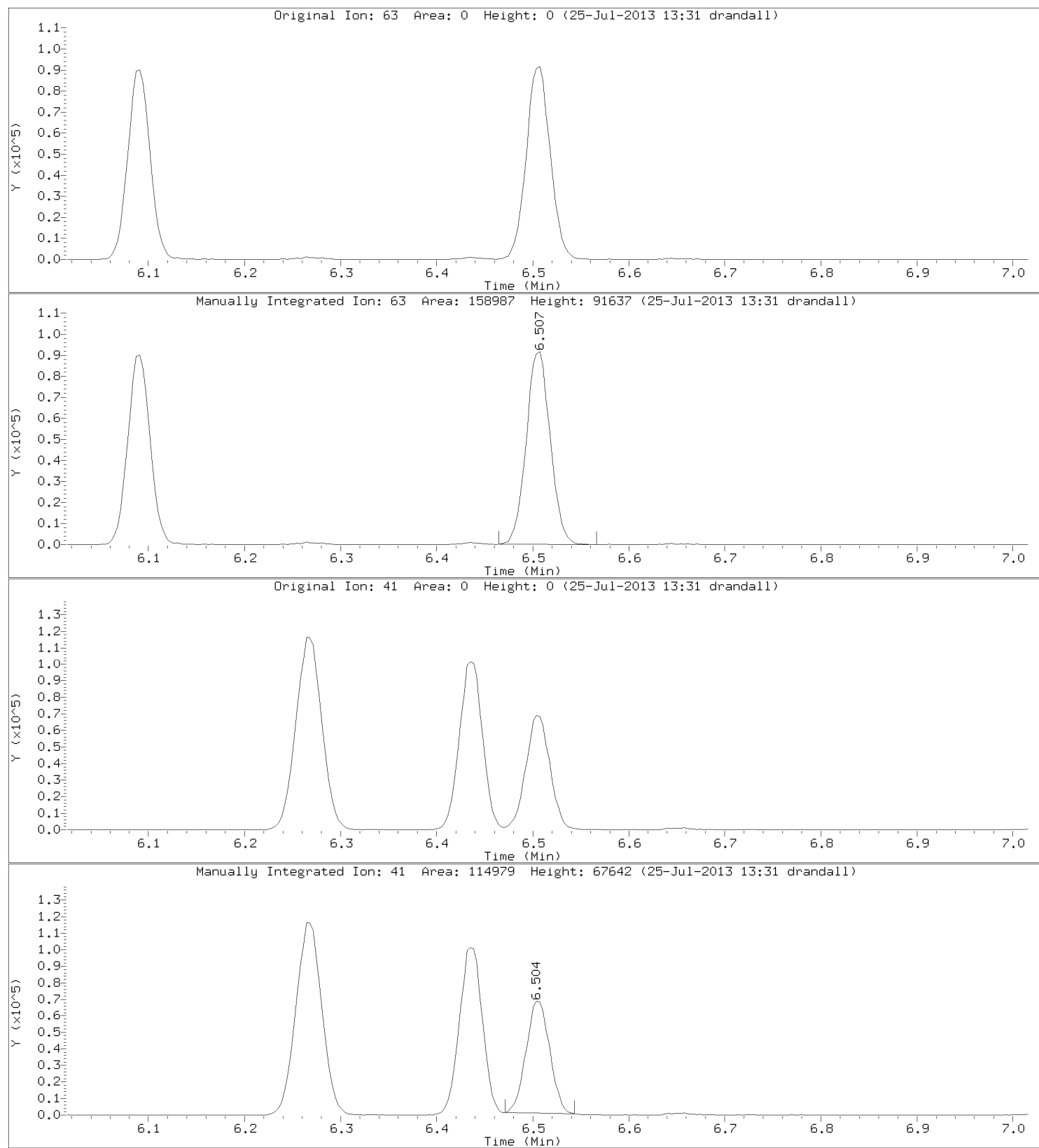


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Lab Sample ID: CCAL

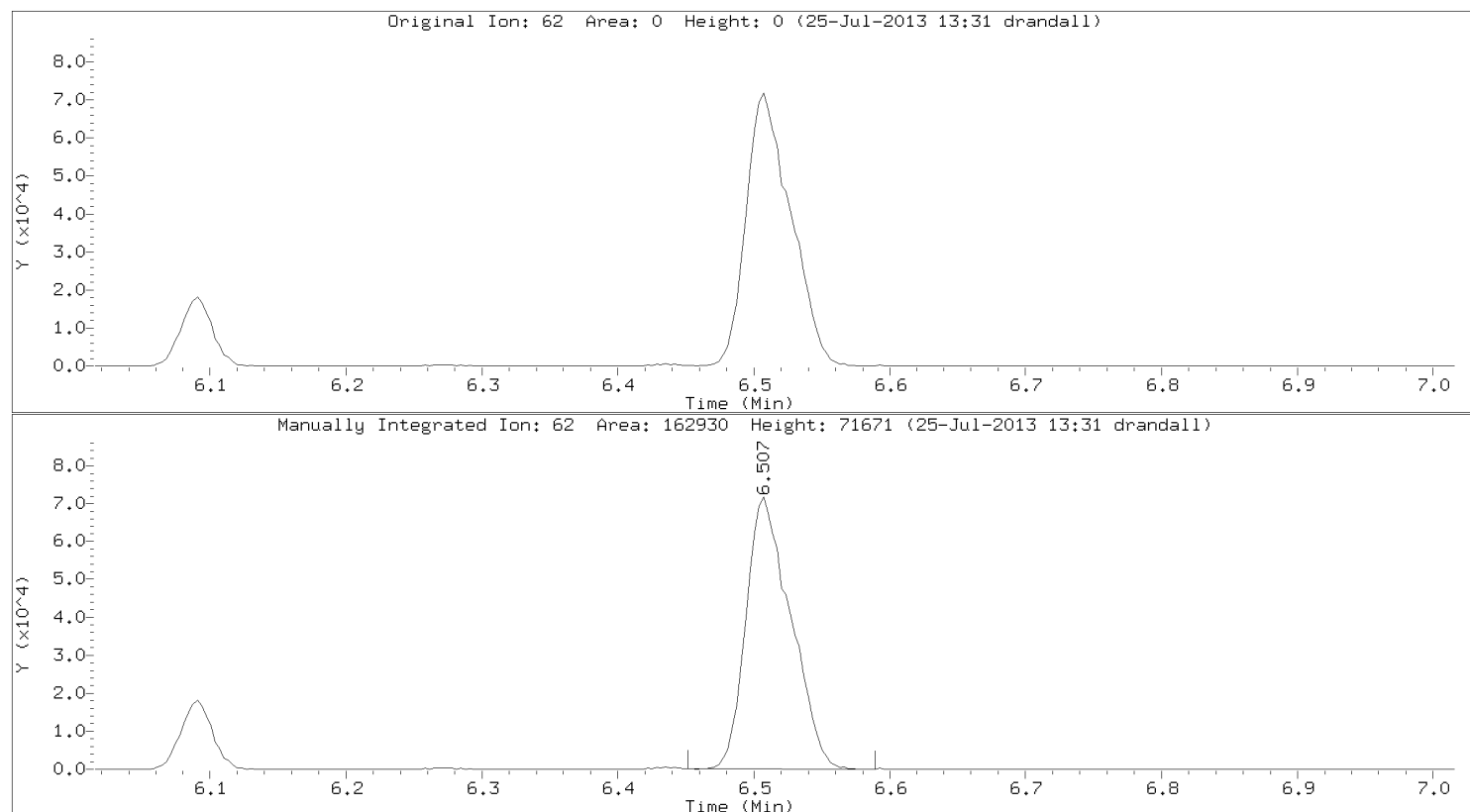


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Injection Date: 25-JUL-2013 13:08
Instrument: 10airD.i
Lab Sample ID: CCAL

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

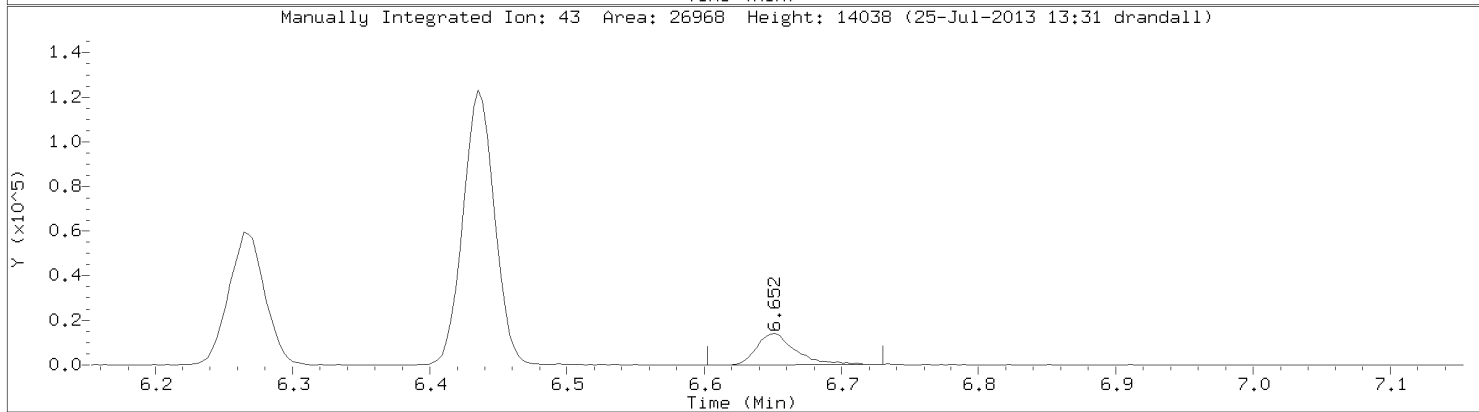
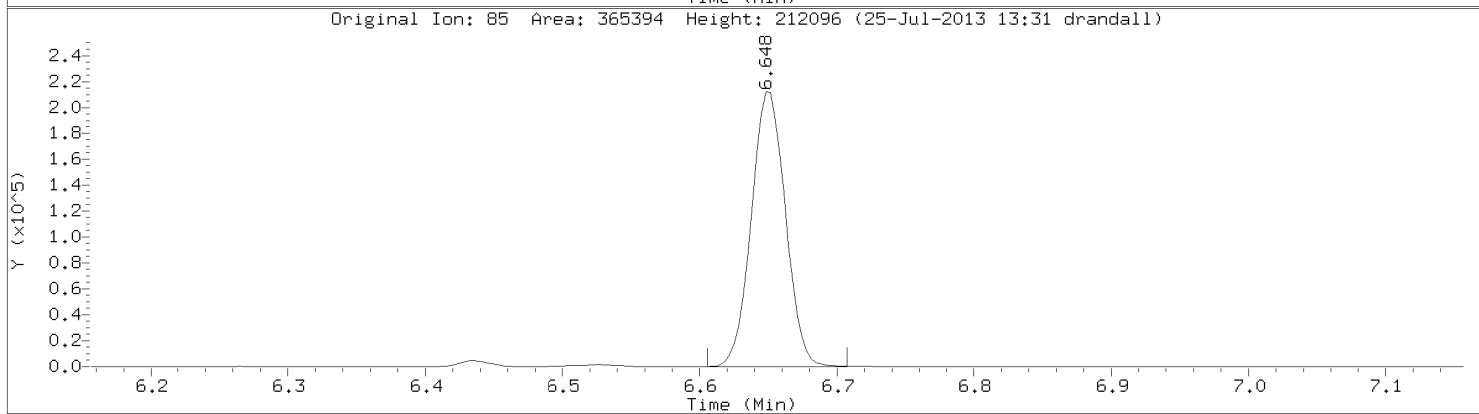
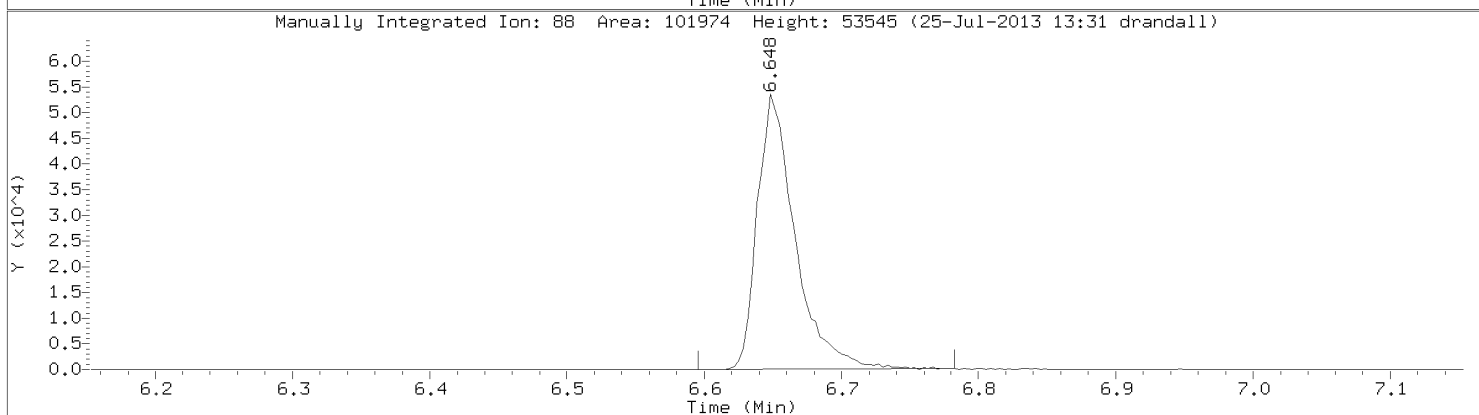
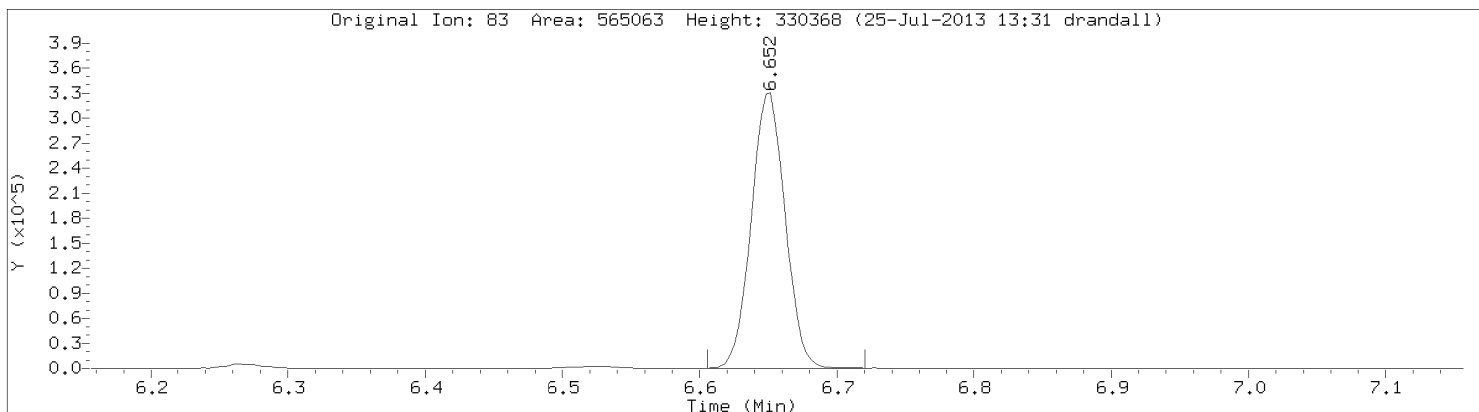


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Injection Date: 25-JUL-2013 13:08
Instrument: 10airD.i
Lab Sample ID: CCAL



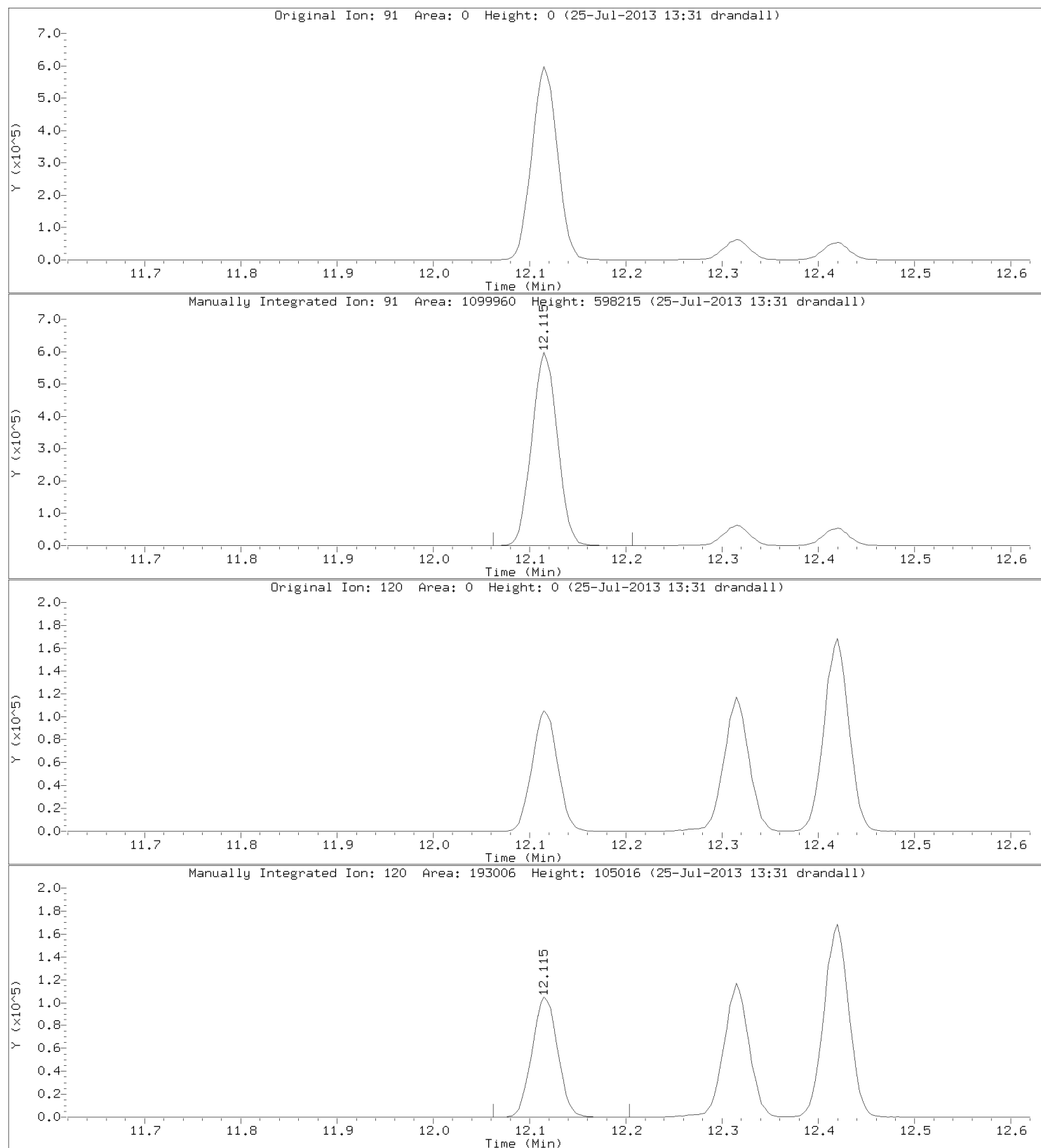
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Injection Date: 25-JUL-2013 13:08
Instrument: 10airD.i
Lab Sample ID: CCAL

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



Data File: \\192.168.10.12\chem\10airD.i\072513.b\20602.d
Injection Date: 25-JUL-2013 13:08
Instrument: 10airD.i
Lab Sample ID: CCAL

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



Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airD.i Injection Date: 26-JUL-2013 11:27
 Lab File ID: 20702.d Init. Cal. Date(s): 24-JUL-2013 24-JUL-2013
 Analysis Type: AIR Init. Cal. Times: 14:12 16:39
 Lab Sample ID: CCAL Quant Type: ISTD
 Method: \\192.168.10.12\chem\10airD.i\072613.b\TO15_205-13.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Propylene	10.00000	9.68302	0.12142	0.010	-3.16976	30.00000	Linear
2 Dichlorodifluoromethane	1.21581	1.09261	1.09261	0.010	-10.13314	30.00000	Averaged
3 Dichlorotetrafluoroethane	0.97696	0.87332	0.87332	0.010	-10.60829	30.00000	Averaged
4 Chloromethane	0.27759	0.24991	0.24991	0.010	-9.96959	30.00000	Averaged
5 Vinyl chloride	0.27680	0.24904	0.24904	0.010	-10.02637	30.00000	Averaged
6 1,3-Butadiene	0.16338	0.15587	0.15587	0.010	-4.59334	30.00000	Averaged
7 Bromomethane	0.34859	0.30133	0.30133	0.010	-13.55781	30.00000	Averaged
8 Chloroethane	0.14158	0.12861	0.12861	0.010	-9.15712	30.00000	Averaged
9 Ethanol	0.14485	0.14238	0.14238	0.100	-1.70124	30.00000	Averaged
10 Vinyl Bromide	0.34468	0.31335	0.31335	0.010	-9.09057	30.00000	Averaged
11 Acrolein	10.00000	9.23601	0.08681	0.010	-7.63990	30.00000	Linear
12 Trichlorofluoromethane	1.32254	1.15900	1.15900	0.010	-12.36587	30.00000	Averaged
13 Acetone	0.66294	0.54822	0.54822	0.010	-17.30535	30.00000	Averaged
14 Isopropyl Alcohol	0.43481	0.41017	0.41017	0.010	-5.66721	30.00000	Averaged
15 1,1-Dichloroethene	0.58817	0.53509	0.53509	0.010	-9.02504	30.00000	Averaged
16 Acrylonitrile	10.00000	9.14851	0.17907	0.010	-8.51493	30.00000	Linear
17 Tert Butyl Alcohol	0.69550	0.64840	0.64840	0.100	-6.77187	30.00000	Averaged
18 Freon 113	0.88260	0.78115	0.78115	0.010	-11.49442	30.00000	Averaged
19 Methylene chloride	0.37560	0.32638	0.32638	0.010	-13.10567	30.00000	Averaged
20 Allyl Chloride	0.14093	0.13357	0.13357	0.010	-5.22312	30.00000	Averaged
21 Carbon Disulfide	1.09302	0.93466	0.93466	0.010	-14.48812	30.00000	Averaged
22 trans-1,2-dichloroethene	0.37789	0.35144	0.35144	0.010	-7.00050	30.00000	Averaged
23 Methyl Tert Butyl Ether	0.93229	0.91270	0.91270	0.010	-2.10068	30.00000	Averaged
24 Vinyl Acetate	10.00000	9.05537	0.64383	0.010	-9.44629	30.00000	Linear
25 1,1-Dichloroethane	0.65620	0.61388	0.61388	0.010	-6.44970	30.00000	Averaged
26 Hexane-d14(S)	0.48289	0.41933	0.41933	0.200	-13.16252	30.00000	Averaged
27 Methyl Ethyl Ketone	0.15348	0.15418	0.15418	0.010	0.45067	30.00000	Averaged
28 n-Hexane	0.43898	0.40348	0.40348	0.010	-8.08634	30.00000	Averaged
29 cis-1,2-Dichloroethene	10.00000	9.68457	0.33491	0.010	-3.15432	30.00000	Linear
30 Ethyl Acetate	10.00000	9.59157	0.48114	0.010	-4.08428	30.00000	Linear
31 Chloroform	0.81714	0.81520	0.81520	0.010	-0.23719	30.00000	Averaged
32 Tetrahydrofuran	10.00000	10.00648	0.19749	0.010	0.06480	30.00000	Linear
33 1,1,1-Trichloroethane	0.87607	0.89506	0.89506	0.010	2.16746	30.00000	Averaged
34 1,2-Dichloroethane	0.60681	0.60812	0.60812	0.010	0.21562	30.00000	Averaged
35 Benzene	10.00000	9.50220	0.85237	0.300	-4.97801	30.00000	Linear
36 Carbon tetrachloride	0.94083	0.94834	0.94834	0.010	0.79812	30.00000	Averaged
37 Cyclohexane	10.00000	9.42726	0.31933	0.010	-5.72743	30.00000	Linear
39 2,2,4-Trimethylpentane	10.00000	9.54097	0.99164	0.010	-4.59033	30.00000	Linear
40 Heptane	10.00000	9.50538	0.32247	0.010	-4.94617	30.00000	Linear
41 1,2-Dichloropropane	10.00000	9.59806	0.26142	0.010	-4.01940	30.00000	Linear
42 Trichloroethene	10.00000	9.54760	0.35047	0.010	-4.52397	30.00000	Linear
43 1,4-Dioxane	10.00000	9.93338	0.15930	0.010	-0.66615	30.00000	Linear
44 Bromodichloromethane	10.00000	9.75224	0.90063	0.010	-2.47759	30.00000	Linear

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airD.i Injection Date: 26-JUL-2013 11:27
 Lab File ID: 20702.d Init. Cal. Date(s): 24-JUL-2013 24-JUL-2013
 Analysis Type: AIR Init. Cal. Times: 14:12 16:39
 Lab Sample ID: CCAL Quant Type: ISTD
 Method: \\192.168.10.12\chem\10airD.i\072613.b\TO15_205-13.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
45 Methyl Isobutyl Ketone	10.00000	9.58659	0.47028	0.010	-4.13408	30.00000	Linear
46 cis-1,3-Dichloropropene	10.00000	9.74254	0.49516	0.010	-2.57460	30.00000	Linear
47 trans-1,3-Dichloropropene	10.00000	9.67640	0.56323	0.010	-3.23599	30.00000	Linear
48 Toluene-d8 (S)	0.69840	0.68786	0.68786	0.200	-1.50897	30.00000	Averaged
49 Toluene	10.00000	9.35999	1.09586	0.300	-6.40015	30.00000	Linear
50 1,1,2-Trichloroethane	10.00000	9.29503	0.37768	0.010	-7.04965	30.00000	Linear
51 Methyl Butyl Ketone	10.00000	10.65349	1.34921	0.010	6.53485	30.00000	Linear
52 Dibromochloromethane	10.00000	10.75867	2.05620	0.010	7.58666	30.00000	Linear
53 1,2-Dibromoethane	10.00000	10.55842	1.72372	0.010	5.58424	30.00000	Linear
54 Tetrachloroethene	10.00000	10.42289	1.60178	0.010	4.22886	30.00000	Linear
56 Chlorobenzene	10.00000	10.58173	2.12643	0.010	5.81731	30.00000	Linear
57 Ethyl Benzene	10.00000	10.40364	3.98671	0.300	4.03645	30.00000	Linear
58 m&p-Xylene	10.00000	10.61190	3.24198	0.300	6.11900	30.00000	Linear
59 Bromoform	10.00000	10.43978	2.15820	0.010	4.39781	30.00000	Linear
60 Styrene	10.00000	10.46391	2.11102	0.010	4.63911	30.00000	Linear
61 o-Xylene	10.00000	10.57107	3.36285	0.300	5.71068	30.00000	Linear
62 1,1,2,2-Tetrachloroethane	10.00000	10.47069	1.92935	0.010	4.70690	30.00000	Linear
63 Isopropylbenzene	10.00000	10.65678	4.29499	0.010	6.56781	30.00000	Linear
64 N-Propylbenzene	10.00000	10.60500	5.11189	0.010	6.05001	30.00000	Linear
65 4-Ethyltoluene	10.00000	10.70303	4.00982	0.010	7.03031	30.00000	Linear
66 1,3,5-Trimethylbenzene	10.00000	10.58698	3.49160	0.010	5.86978	30.00000	Linear
67 1,2,4-Trimethylbenzene	10.00000	10.63979	3.36428	0.010	6.39789	30.00000	Linear
68 1,3-Dichlorobenzene	10.00000	10.52466	2.04688	0.010	5.24660	30.00000	Linear
69 Sec- Butylbenzene	10.00000	10.53703	4.64076	0.010	5.37029	30.00000	Linear
70 1,4-dichlorobenzene-d4 (S)	0.40365	0.42948	0.42948	0.200	6.39968	30.00000	Averaged
71 Benzyl Chloride	10.00000	10.19494	2.78132	0.010	1.94939	30.00000	Linear
72 1,4-Dichlorobenzene	10.00000	10.34341	1.96150	0.010	3.43411	30.00000	Linear
73 1,2-Dichlorobenzene	10.00000	10.66009	1.71662	0.010	6.60089	30.00000	Linear
74 N-Butylbenzene	10.00000	10.71099	3.61848	0.010	7.10995	30.00000	Linear
75 1,2,4-Trichlorobenzene	10.00000	11.37217	1.17193	0.010	13.72171	30.00000	Quadratic
76 Naphthalene	10.00000	11.75605	1.87317	0.010	17.56053	30.00000	Quadratic
77 Hexachlorobutadiene	10.00000	10.59956	1.32834	0.010	5.99561	30.00000	Linear

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 6.30035
 Maximum Average %D/Drift = 30.00000
 * Passed Average %D/Drift Test.

Data File: \\192.168.10.12\chem\10airD.i\072613.b\20702.d
 Report Date: 26-Jul-2013 11:50

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072613.b\20702.d
 Lab Smp Id: CCAL
 Inj Date : 26-JUL-2013 11:27
 Operator : DR1 Inst ID: 10airD.i
 Smp Info :
 Misc Info :
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\072613.b\TO15_205-13.m
 Meth Date : 26-Jul-2013 11:48 drandall Quant Type: ISTD
 Cal Date : 24-JUL-2013 16:39 Cal File: 20509.d
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10AIRPC4

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 MASS	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ppbv)	ON-COL (ppbv)
1 Propylene	41		2.982	2.982	(0.490)	79046	10.0000	9.68
2 Dichlorodifluoromethane	85		3.008	3.008	(0.494)	711305	10.0000	8.99
3 Dichlorotetrafluoroethane	85		3.103	3.107	(0.510)	568543	10.0000	8.94
4 Chloromethane	50		3.106	3.107	(0.510)	162697	10.0000	9.00
5 Vinyl chloride	62		3.191	3.195	(0.524)	162130	10.0000	9.00
6 1,3-Butadiene	54		3.234	3.238	(0.531)	101476	10.0000	9.54
7 Bromomethane	94		3.388	3.392	(0.556)	196168	10.0000	8.64
8 Chloroethane	64		3.444	3.448	(0.566)	83730	10.0000	9.08 (M)
9 Ethanol	31		3.500	3.494	(0.575)	92692	10.0000	9.83
10 Vinyl Bromide	106		3.582	3.585	(0.588)	203995	10.0000	9.09
11 Acrolein	56		3.683	3.684	(0.605)	56514	10.0000	9.24
12 Trichlorofluoromethane	101		3.693	3.694	(0.606)	754524	10.0000	8.76
13 Acetone	43		3.729	3.726	(0.612)	356898	10.0000	8.27
14 Isopropyl Alcohol	45		3.749	3.756	(0.616)	267026	10.0000	9.43
15 1,1-Dichloroethene	61		3.978	3.979	(0.653)	348349	10.0000	9.10
16 Acrylonitrile	53		3.985	3.985	(0.654)	116574	10.0000	9.15
17 Tert Butyl Alcohol	59		3.982	3.989	(0.654)	422115	10.0000	9.32 (M)
18 Freon 113	101		4.031	4.030	(0.662)	508538	10.0000	8.85
19 Methylene chloride	49		4.090	4.094	(0.672)	212477	10.0000	8.69
20 Allyl Chloride	76		4.103	4.107	(0.674)	86955	10.0000	9.48
21 Carbon Disulfide	76		4.224	4.224	(0.694)	608475	10.0000	8.55
22 trans-1,2-dichloroethene	96		4.418	4.422	(0.725)	228789	10.0000	9.30
23 Methyl Tert Butyl Ether	73		4.457	4.458	(0.732)	594181	10.0000	9.79 (M)

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
24 Vinyl Acetate	43		4.575	4.579	(0.751)	419144	10.0000	9.06 (M)	
25 1,1-Dichloroethane	63		4.579	4.582	(0.752)	399643	10.0000	9.36	
\$ 26 Hexane-d14 (S)	66		4.697	4.700	(0.771)	272991	10.0000	8.68	
27 Methyl Ethyl Ketone	72		4.775	4.779	(0.784)	100371	10.0000	10.0	
28 n-Hexane	57		4.815	4.818	(0.791)	262673	10.0000	9.19 (M)	
29 cis-1,2-Dichloroethene	96		4.972	4.979	(0.816)	218030	10.0000	9.68	
30 Ethyl Acetate	43		4.995	4.999	(0.820)	313231	10.0000	9.59 (M)	
31 Chloroform	83		5.116	5.120	(0.840)	530708	10.0000	9.98	
32 Tetrahydrofuran	42		5.310	5.310	(0.872)	128569	10.0000	10.0	
33 1,1,1-Trichloroethane	97		5.595	5.599	(0.919)	582693	10.0000	10.2	
34 1,2-Dichloroethane	62		5.612	5.619	(0.921)	395894	10.0000	10.0	
35 Benzene	78		5.884	5.887	(0.966)	554905	10.0000	9.50	
36 Carbon tetrachloride	117		5.903	5.907	(0.969)	617383	10.0000	10.1	
37 Cyclohexane	56		5.907	5.910	(0.970)	207885	10.0000	9.43	
* 38 1,4-Difluorobenzene	114		6.090	6.094	(1.000)	651013	10.0000		
39 2,2,4-Trimethylpentane	57		6.267	6.271	(1.029)	645568	10.0000	9.54	
40 Heptane	43		6.435	6.442	(1.057)	209930	10.0000	9.50	
41 1,2-Dichloropropane	63		6.503	6.514	(1.068)	170187	10.0000	9.60 (M)	
42 Trichloroethene	130		6.530	6.533	(1.072)	228163	10.0000	9.55	
43 1,4-Dioxane	88		6.651	6.652	(1.092)	103706	10.0000	9.93 (M)	
44 Bromodichloromethane	83		6.651	6.655	(1.092)	586320	10.0000	9.75	
45 Methyl Isobutyl Ketone	43		7.222	7.229	(1.186)	306158	10.0000	9.59	
46 cis-1,3-Dichloropropene	75		7.281	7.281	(1.195)	322357	10.0000	9.74	
47 trans-1,3-Dichloropropene	75		7.769	7.773	(1.276)	366673	10.0000	9.68	
\$ 48 Toluene-d8 (S)	98		7.845	7.848	(1.288)	447804	10.0000	9.85	
49 Toluene	91		7.937	7.940	(1.303)	713422	10.0000	9.36	
50 1,1,2-Trichloroethane	97		7.943	7.950	(1.304)	245874	10.0000	9.30	
51 Methyl Butyl Ketone	43		8.242	8.244	(0.851)	302691	10.0000	10.6	
52 Dibromochloromethane	129		8.553	8.560	(0.883)	461303	10.0000	10.8	
53 1,2-Dibromoethane	107		8.822	8.829	(0.911)	386712	10.0000	10.6	
54 Tetrachloroethene	166		8.914	8.918	(0.920)	359355	10.0000	10.4	
* 55 Chlorobenzene - d5	117		9.688	9.691	(1.000)	224347	10.0000		
56 Chlorobenzene	112		9.737	9.741	(1.005)	477058	10.0000	10.6	
57 Ethyl Benzene	91		10.035	10.039	(1.036)	894406	10.0000	10.4	
58 m&p-Xylene	91		10.206	10.213	(1.053)	727329	10.0000	10.6	
59 Bromoform	173		10.652	10.659	(1.100)	484186	10.0000	10.4	
60 Styrene	104		10.701	10.708	(1.105)	473600	10.0000	10.5	
61 o-Xylene	91		10.776	10.783	(1.112)	754445	10.0000	10.6	
62 1,1,2,2-Tetrachloroethane	83		11.091	11.095	(1.145)	432844	10.0000	10.5	
63 Isopropylbenzene	105		11.455	11.459	(1.182)	963567	10.0000	10.6	
64 N-Propylbenzene	91		12.114	12.121	(1.250)	1146838	10.0000	10.6 (M)	
65 4-Ethyltoluene	105		12.314	12.321	(1.271)	899590	10.0000	10.7	
66 1,3,5-Trimethylbenzene	105		12.419	12.426	(1.282)	783331	10.0000	10.6	
67 1,2,4-Trimethylbenzene	105		13.016	13.020	(1.344)	754766	10.0000	10.6	
68 1,3-Dichlorobenzene	146		13.370	13.374	(1.380)	459211	10.0000	10.5	
69 Sec- Butylbenzene	105		13.397	13.404	(1.383)	1041140	10.0000	10.5	
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.452	13.459	(1.389)	96352	10.0000	10.6	
71 Benzyl Chloride	91		13.475	13.486	(1.391)	623981	10.0000	10.2	
72 1,4-Dichlorobenzene	146		13.498	13.509	(1.393)	440056	10.0000	10.3	
73 1,2-Dichlorobenzene	146		14.036	14.043	(1.449)	385119	10.0000	10.7	
74 N-Butylbenzene	91		14.321	14.325	(1.478)	811796	10.0000	10.7	
75 1,2,4-Trichlorobenzene	180		16.679	16.683	(1.722)	262919	10.0000	11.4	
76 Naphthalene	128		16.856	16.860	(1.740)	420239	10.0000	11.8	
77 Hexachlorobutadiene	225		17.233	17.236	(1.779)	298009	10.0000	10.6	

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Report Date: 26-Jul-2013 11:50

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\072613.b\20702.d
Report Date: 26-Jul-2013 11:50

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 20702.d
Lab Smp Id: CCAL
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\072613.b\TO15_205-13.m
Misc Info:

Calibration Date: 25-JUL-2013
Calibration Time: 13:08

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	651013	12.29
55 Chlorobenzene - d	221404	132842	309966	224347	1.33

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	0.00
55 Chlorobenzene - d	9.69	9.36	10.02	9.69	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 : 26-JUL-2013 11:27

Client ID:

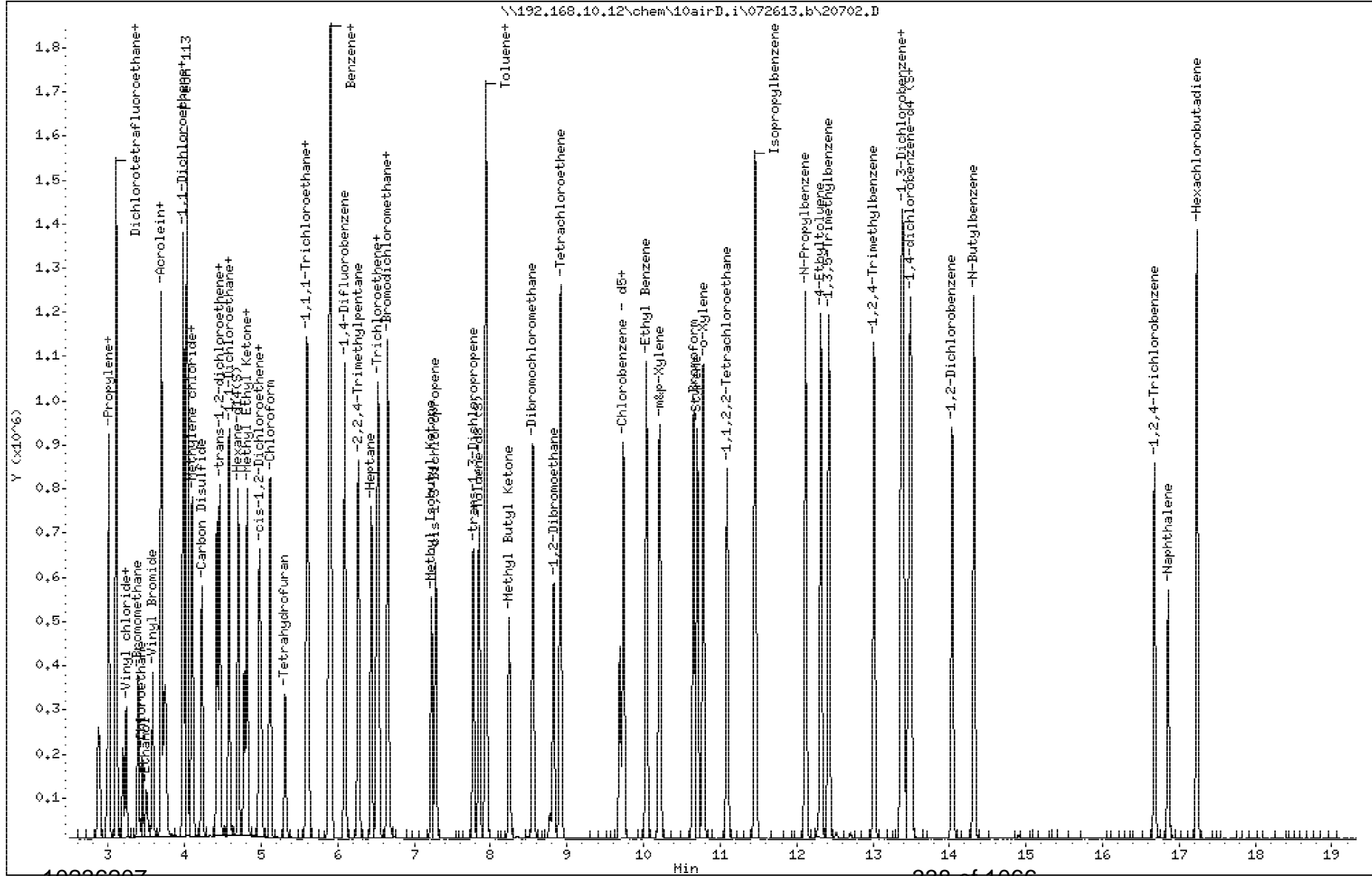
Instrument: 10airD.i

Sample Info:

Operator: DR1

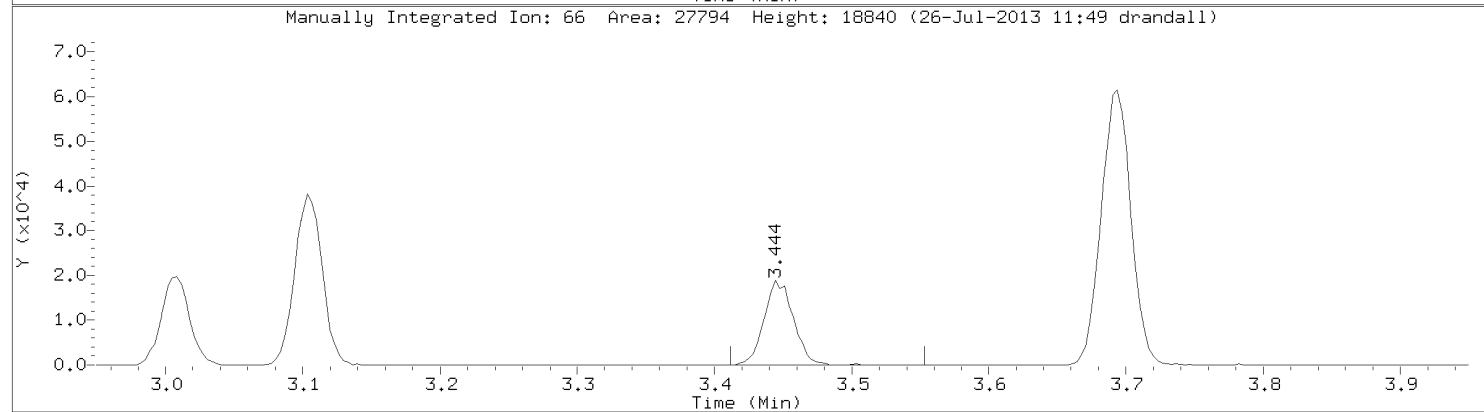
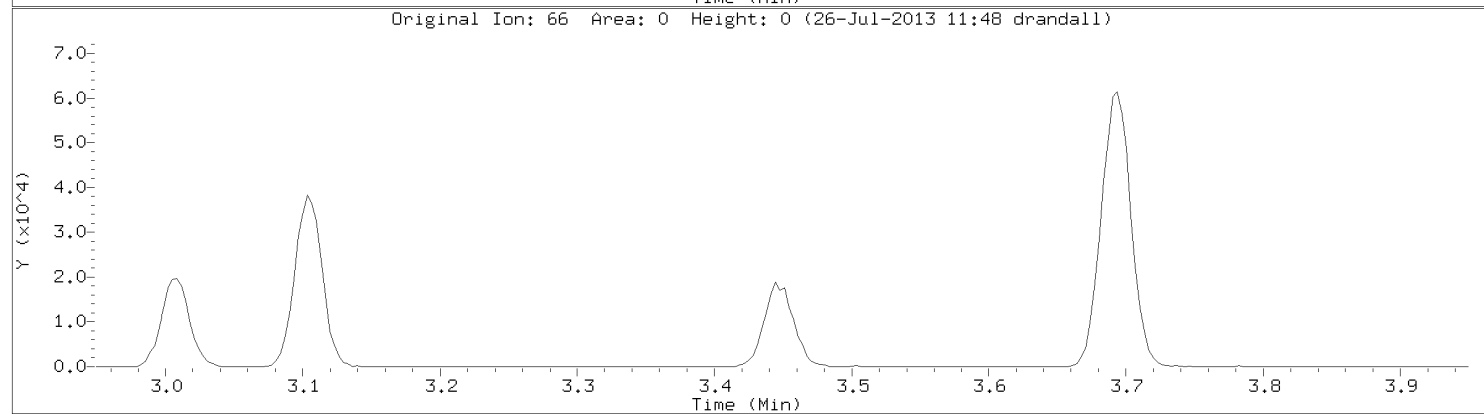
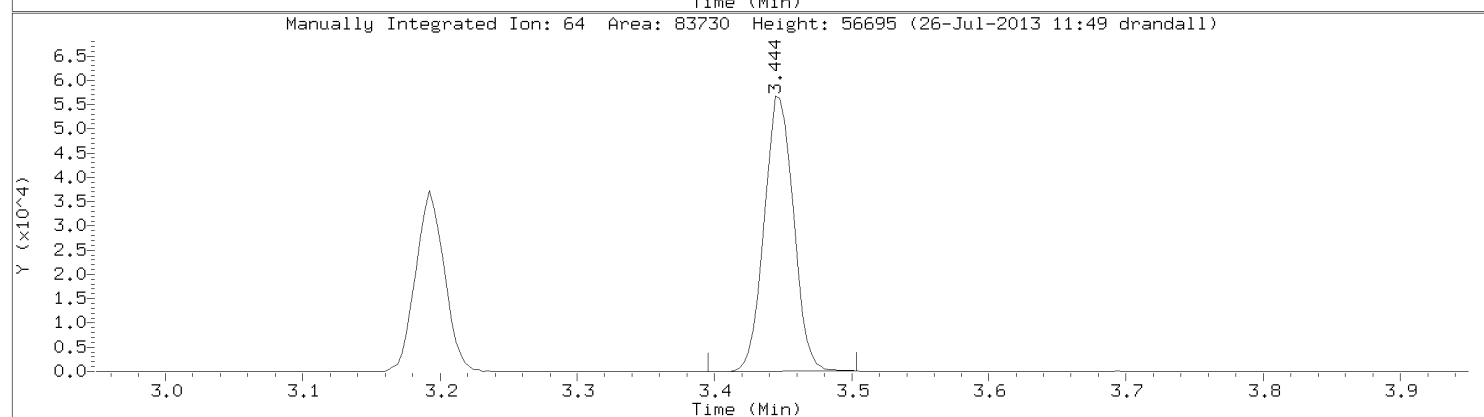
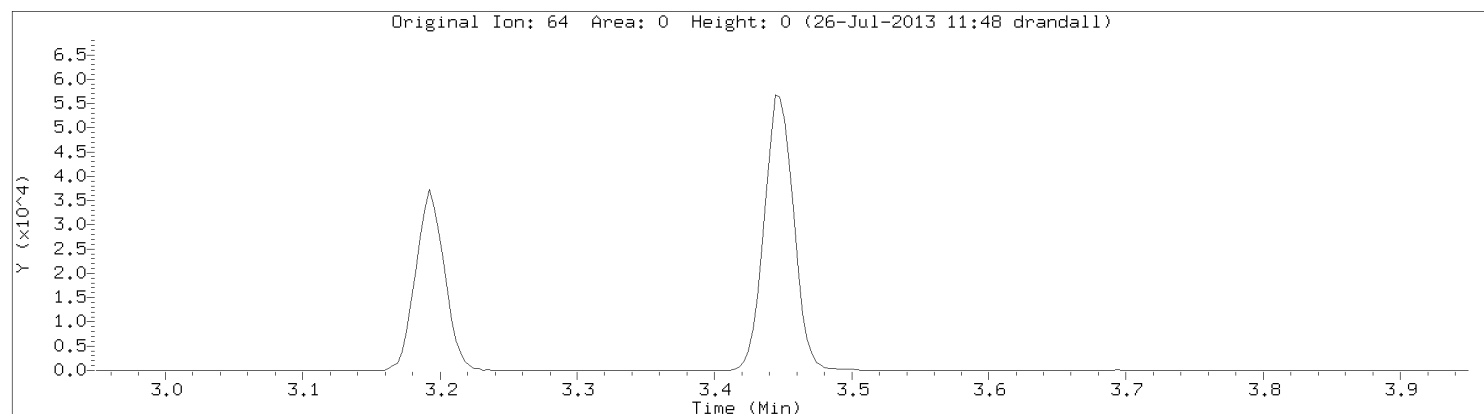
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Column diameter: 0.32



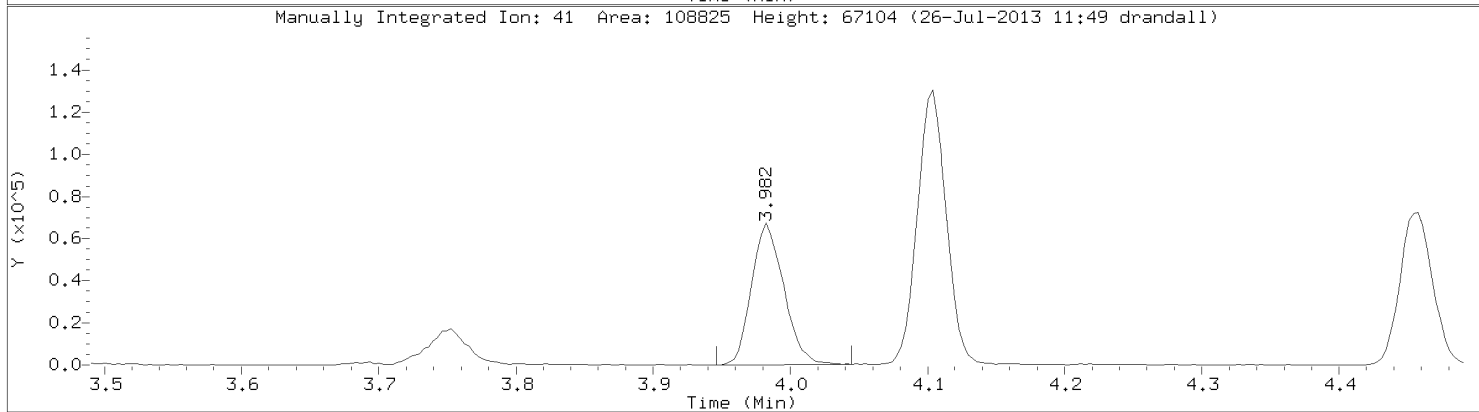
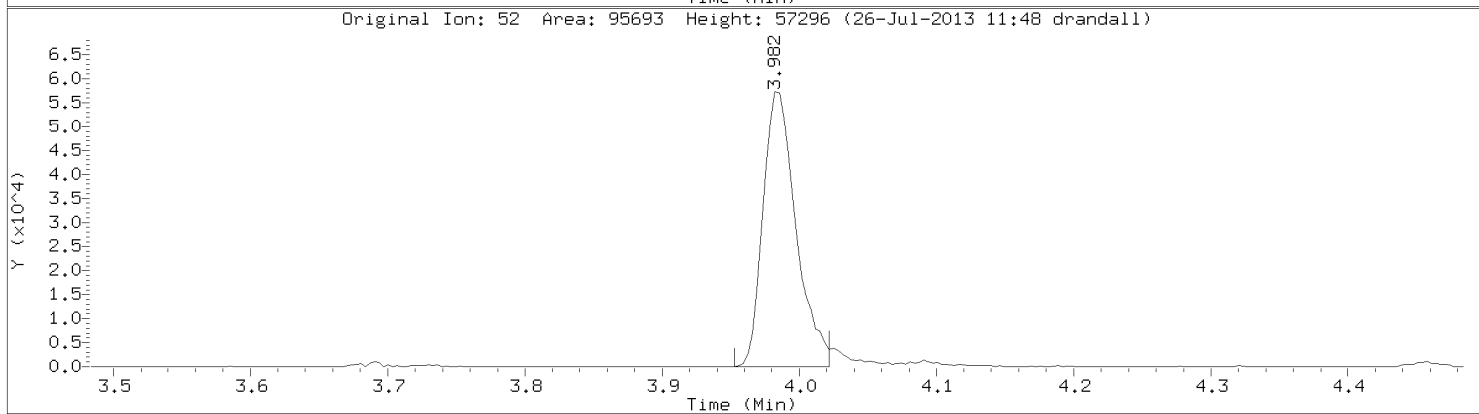
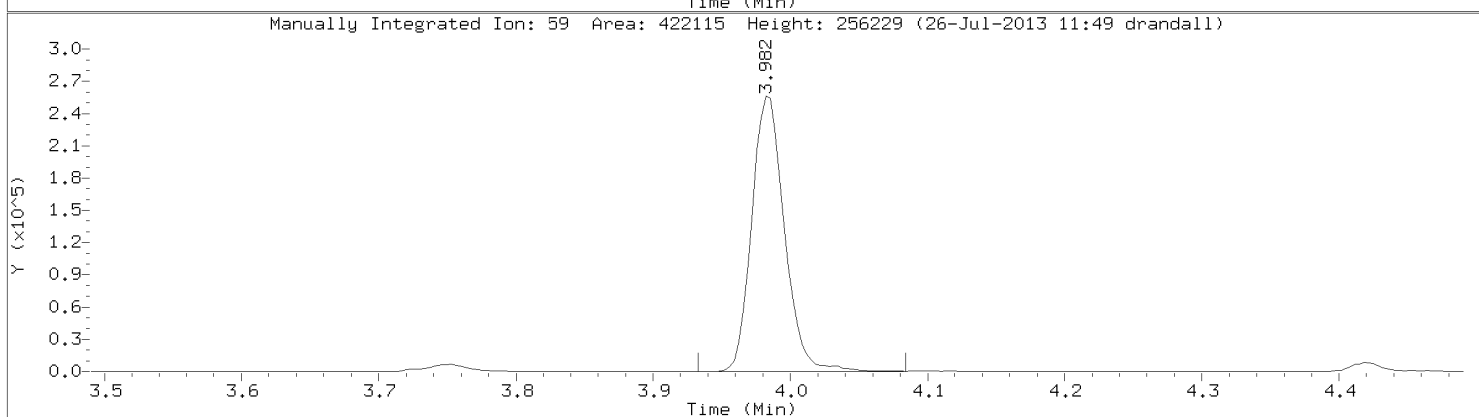
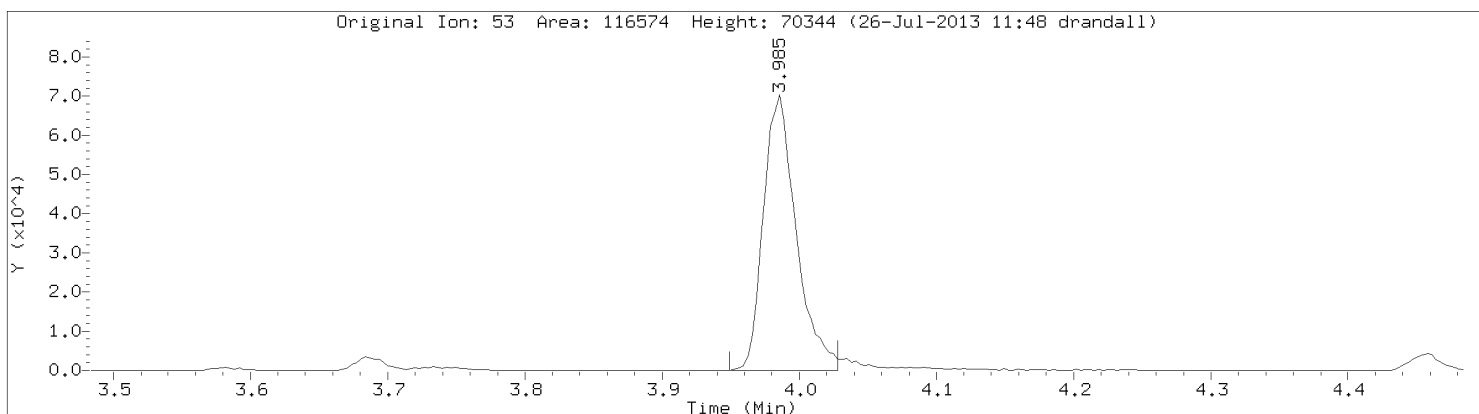
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Injection Date: 26-JUL-2013 11:27
Instrument: 10airD.i
Lab Sample ID: CCAL

Compound: Chloroethane
CAS Number: 75-00-3



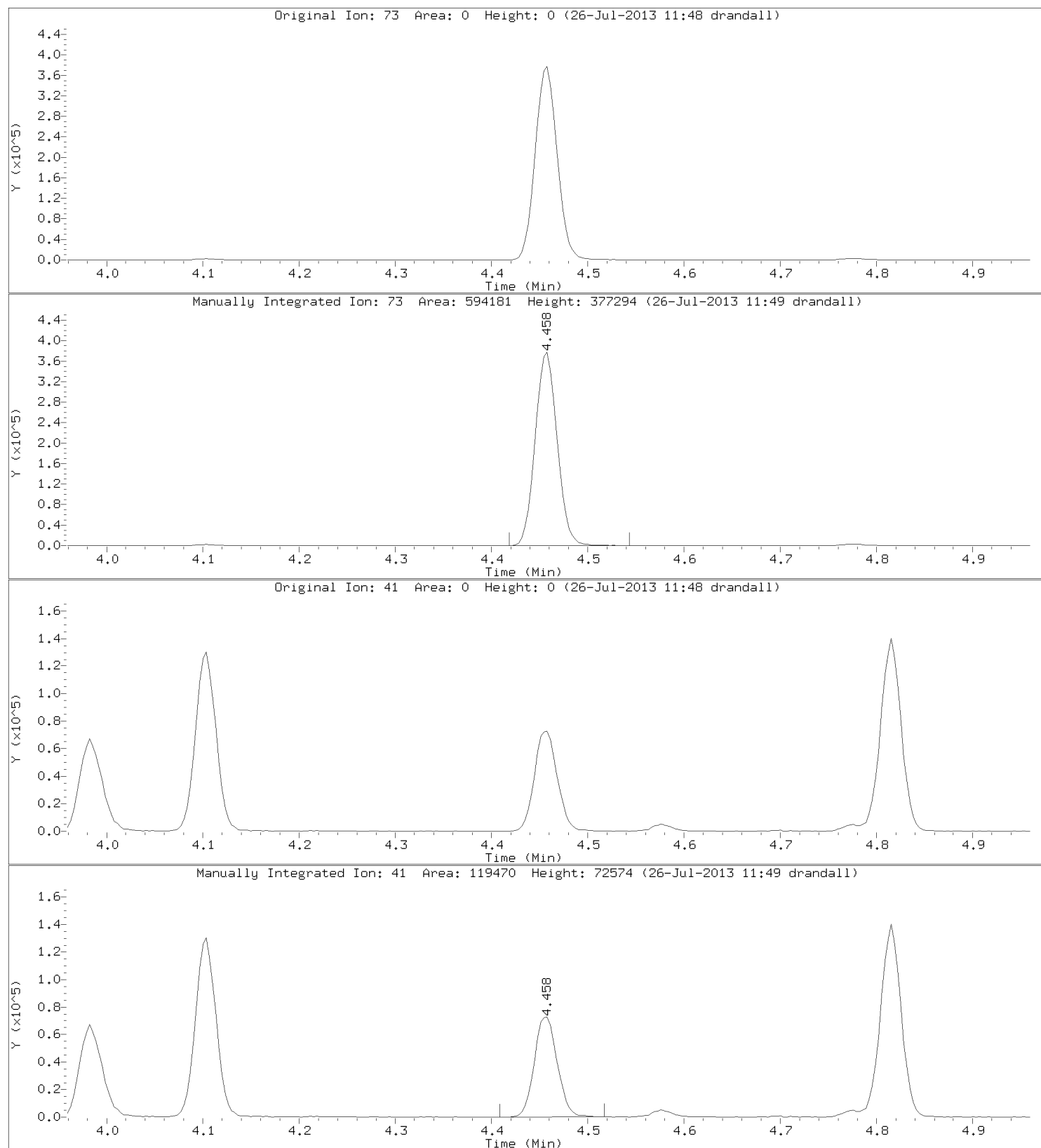
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Injection Date: 26-JUL-2013 11:27
Instrument: 10airD.i
Lab Sample ID: CCAL

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



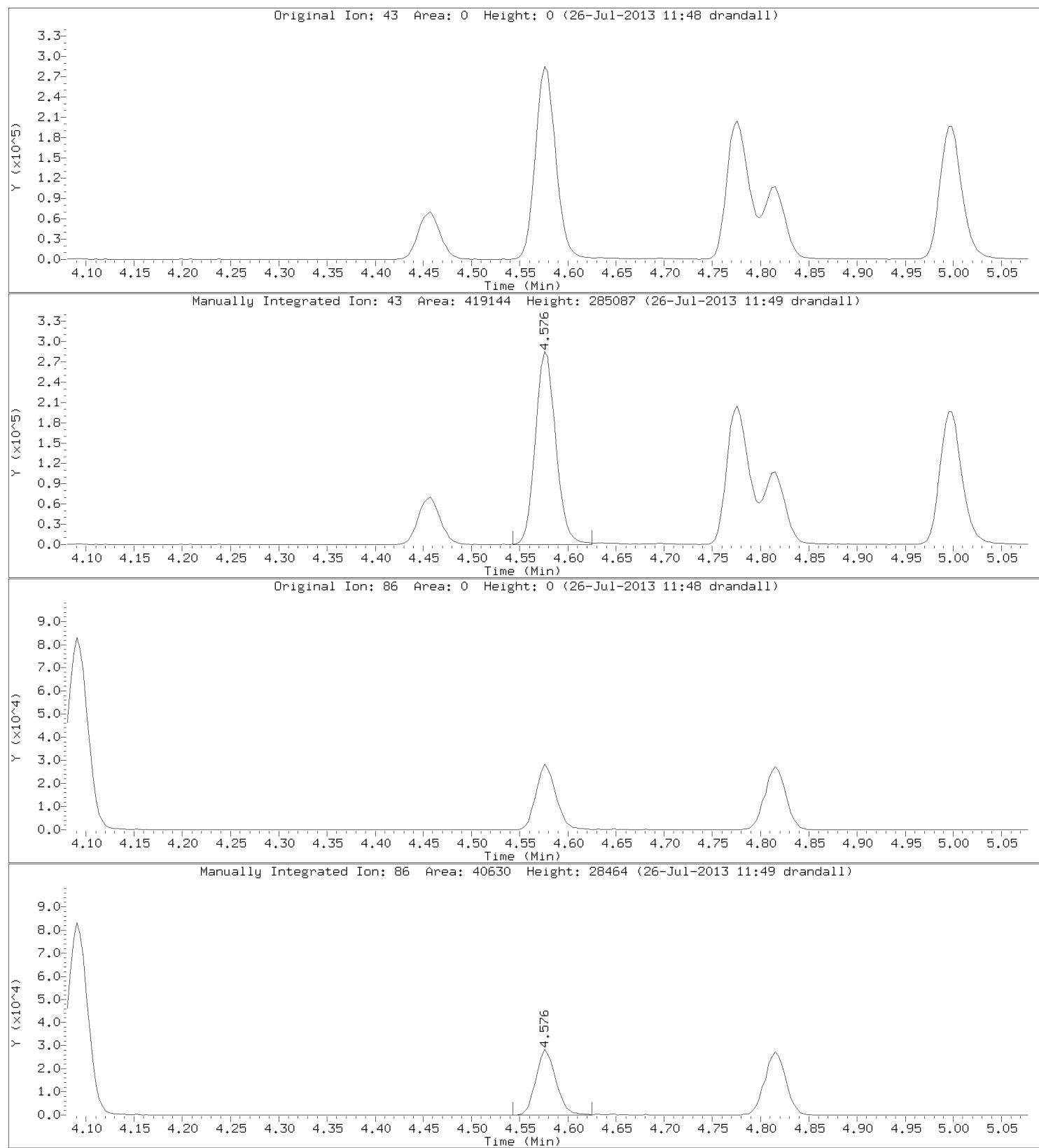
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Instrument: 10airD.i
Lab Sample ID: CCAL

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



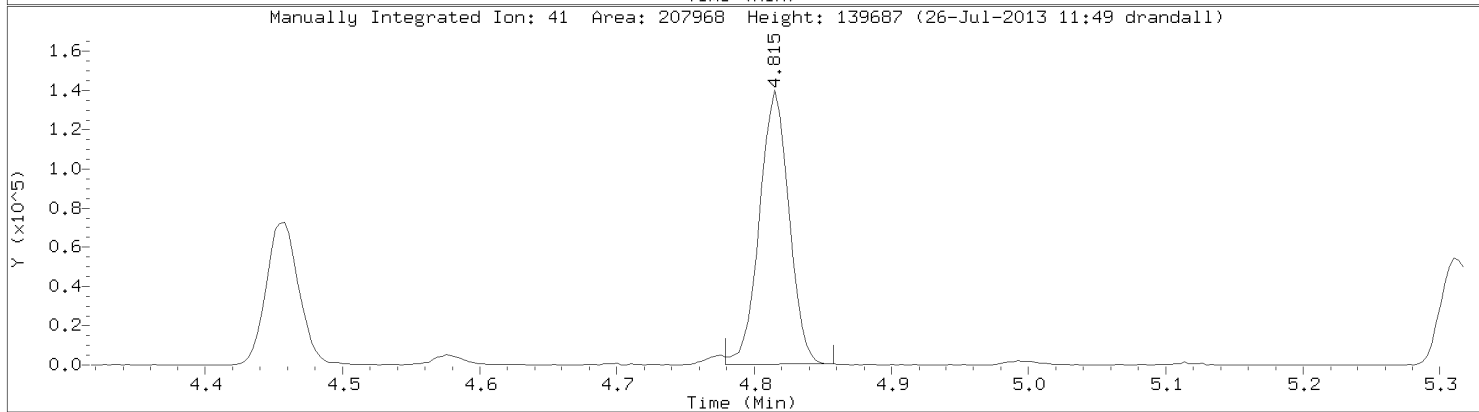
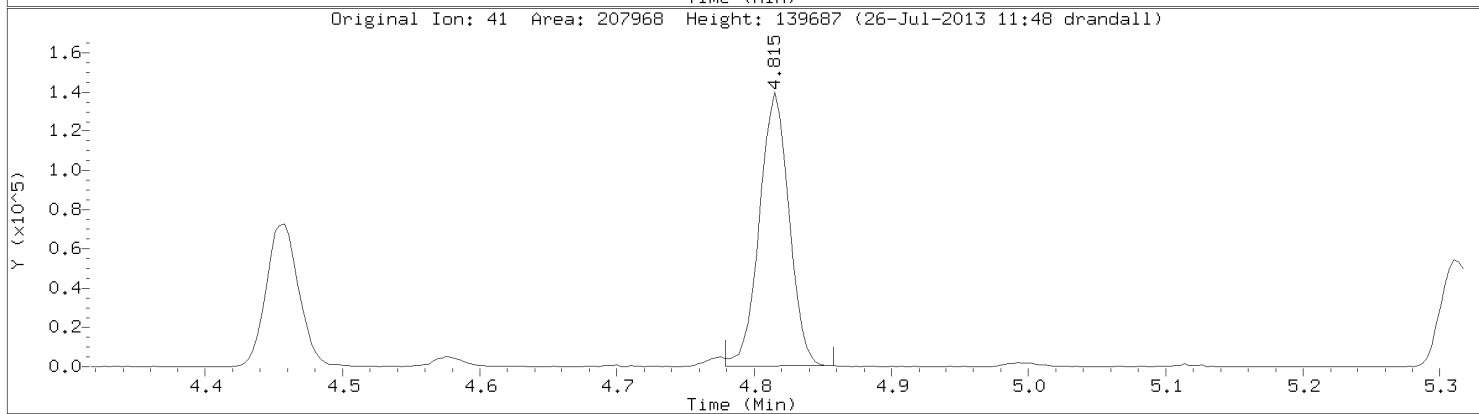
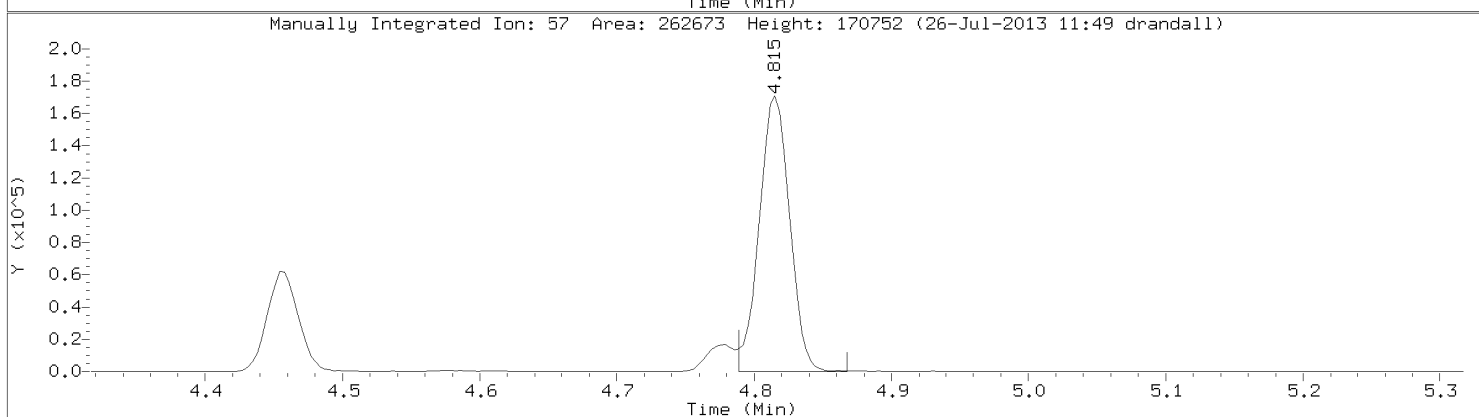
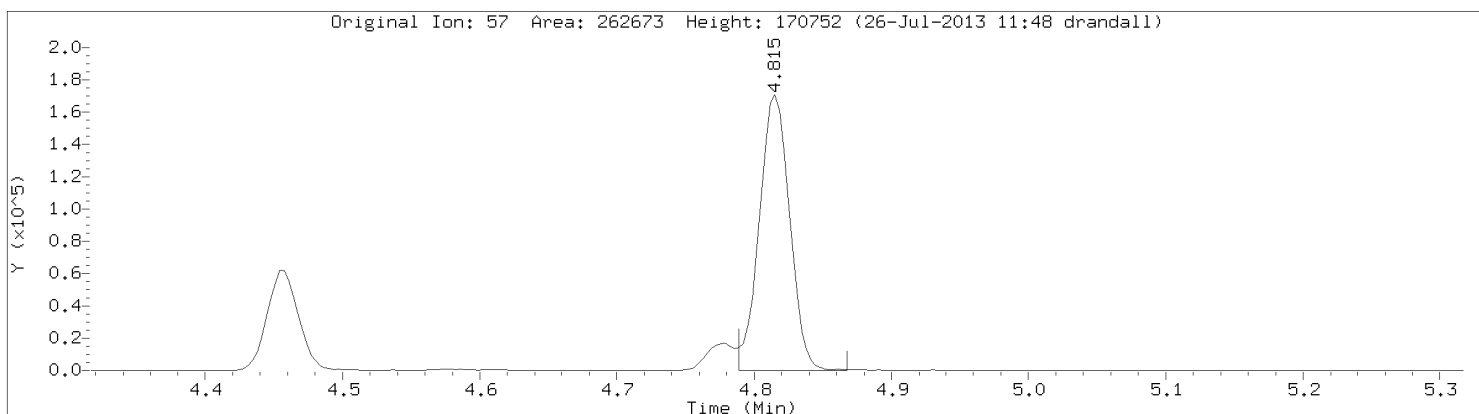
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Instrument: 10airD.i
Lab Sample ID: CCAL

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

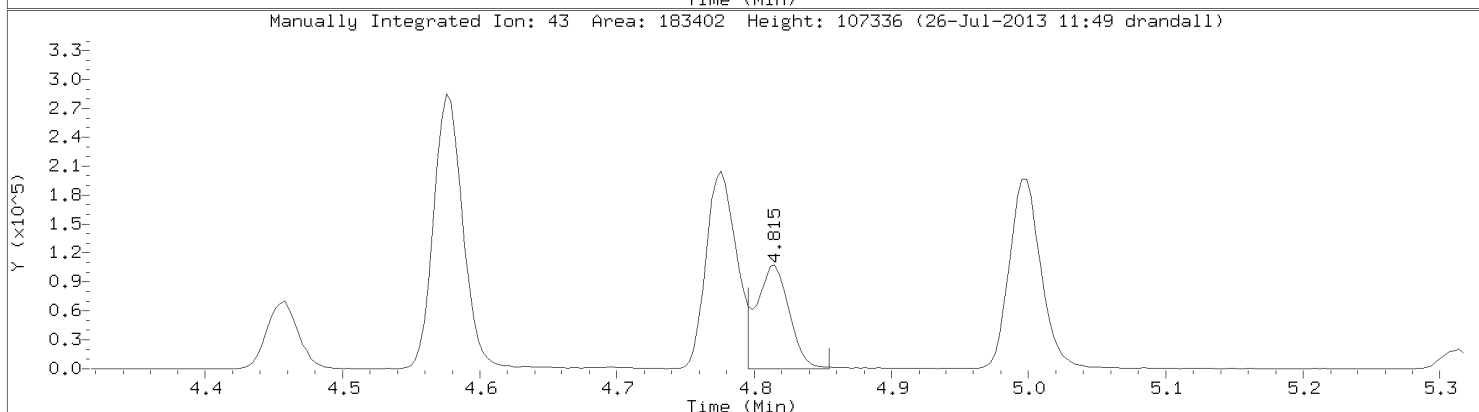
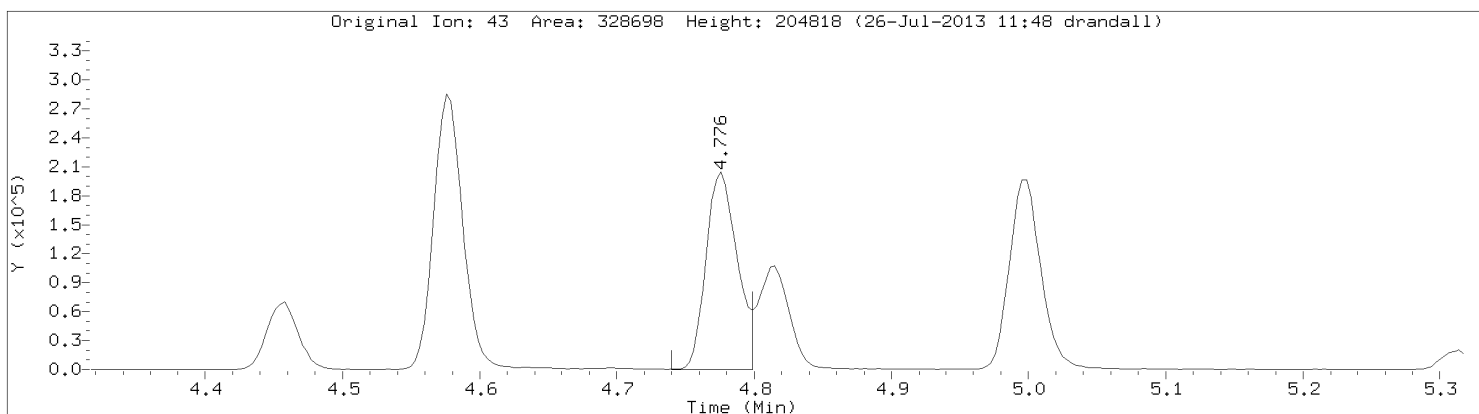


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Injection Date: 26-JUL-2013 11:27
Instrument: 10airD.i
Lab Sample ID: CCAL

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

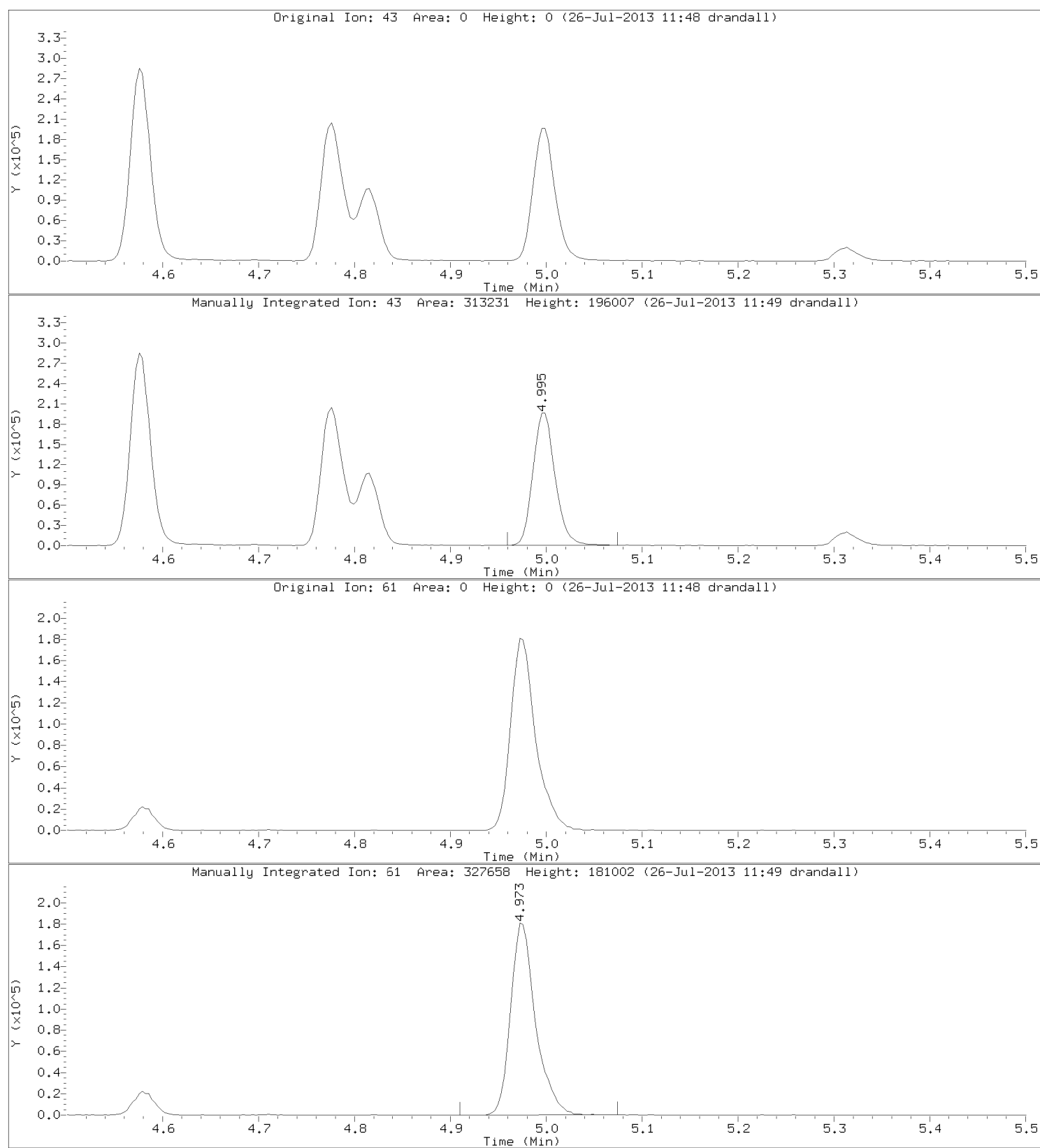


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Lab Sample ID: CCAL

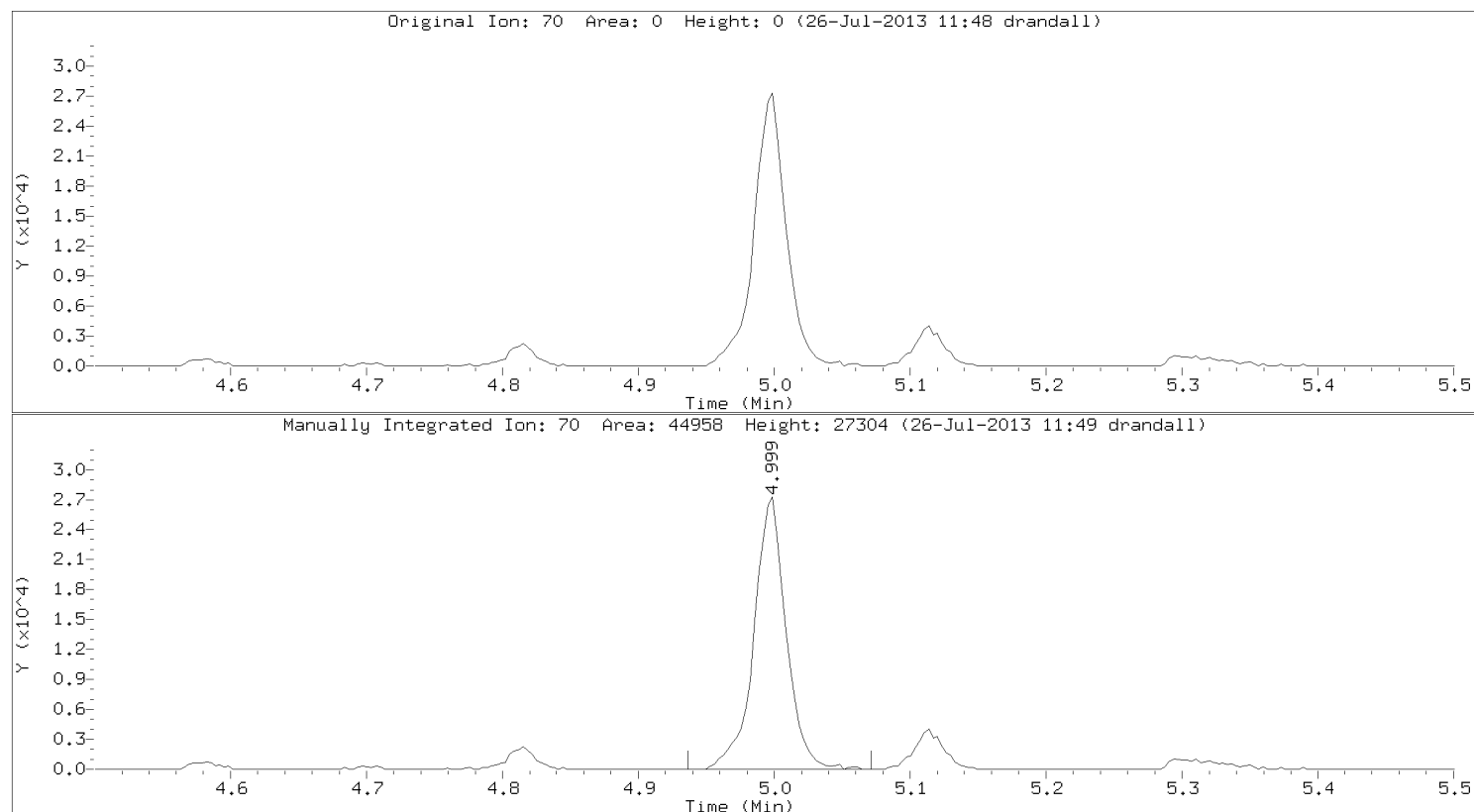


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Injection Date: 26-JUL-2013 11:27
Instrument: 10airD.i
Lab Sample ID: CCAL

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

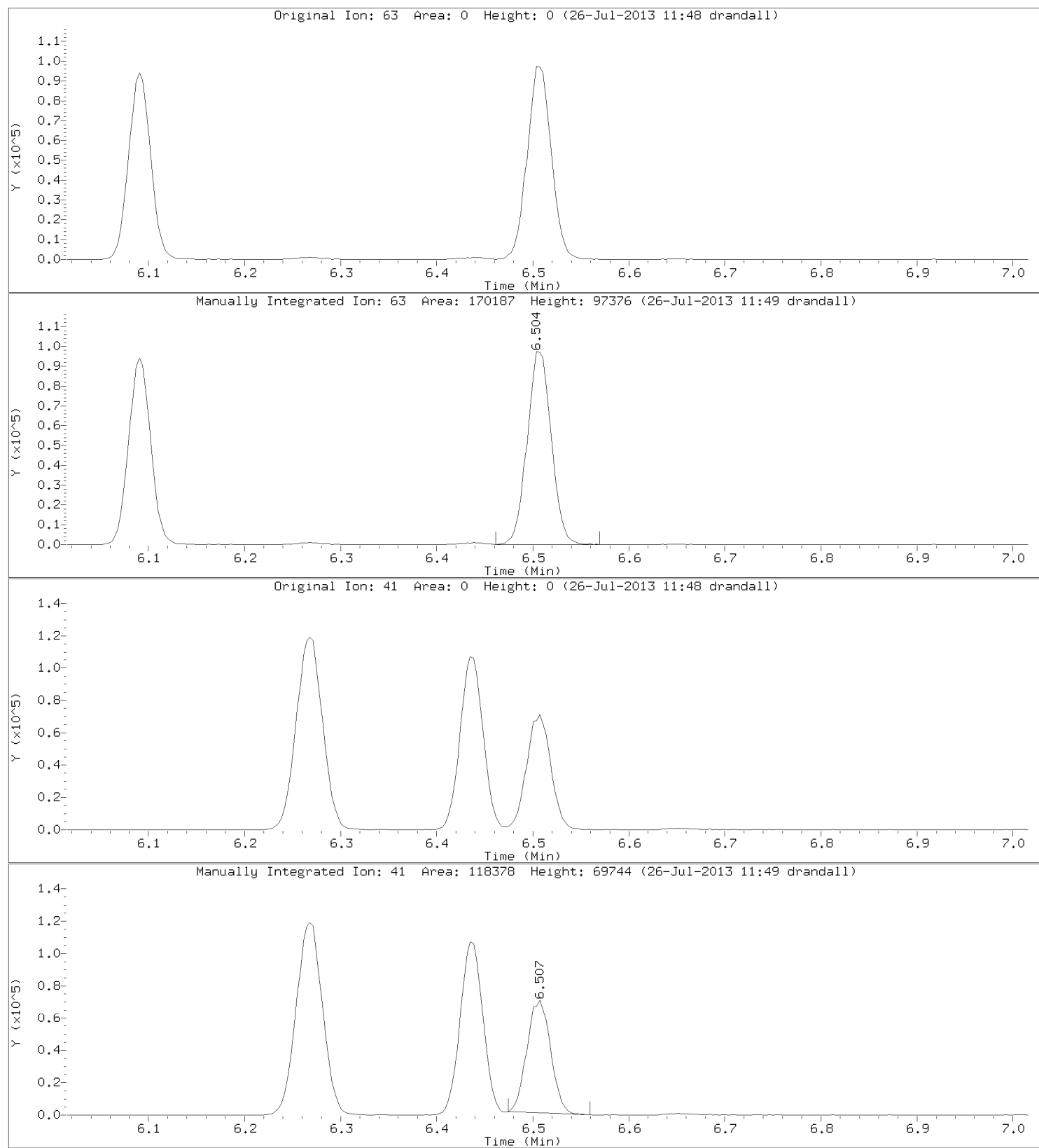


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Instrument: 10airD.i
Lab Sample ID: CCAL

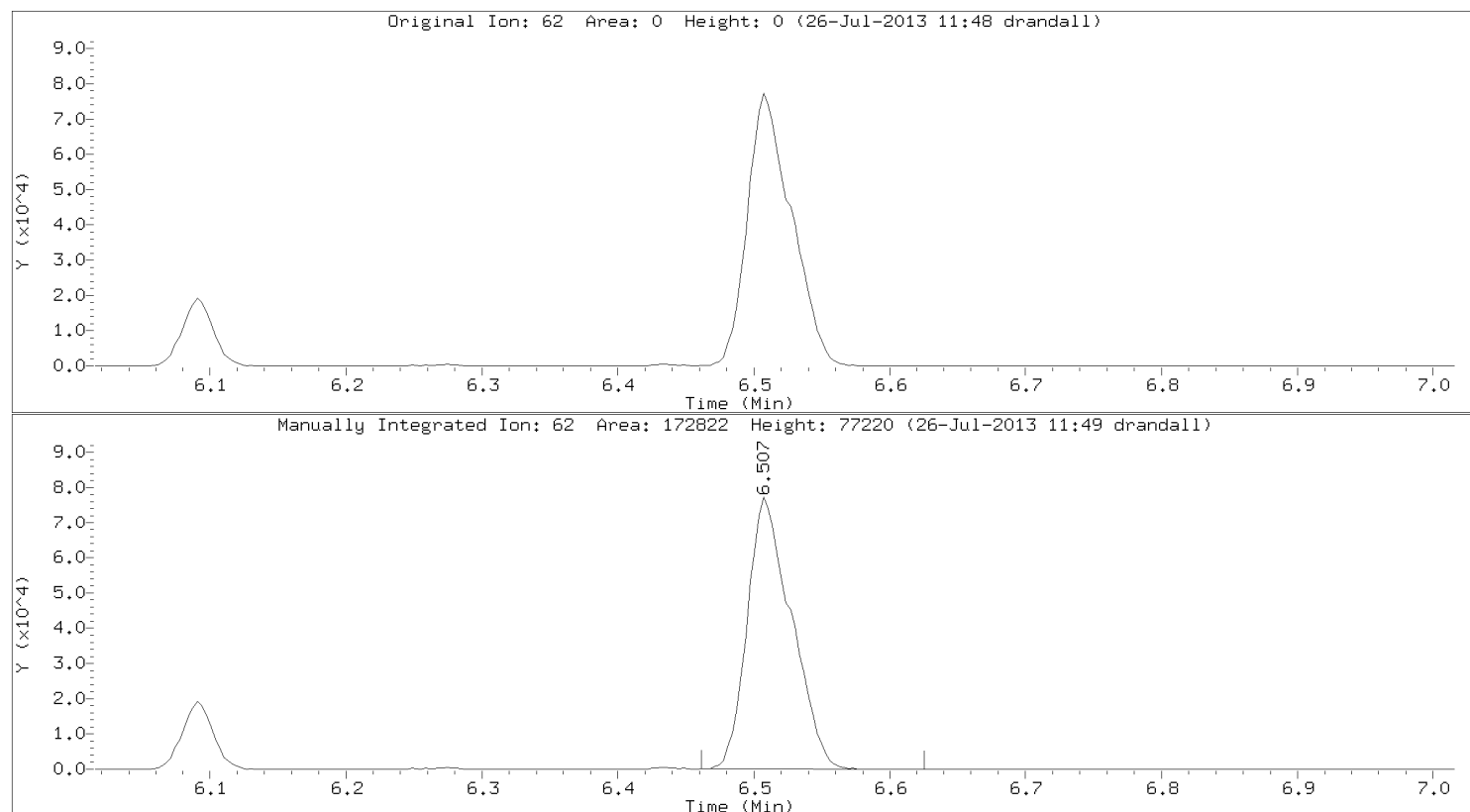


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Injection Date: 26-JUL-2013 11:27
Instrument: 10airD.i
Lab Sample ID: CCAL

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

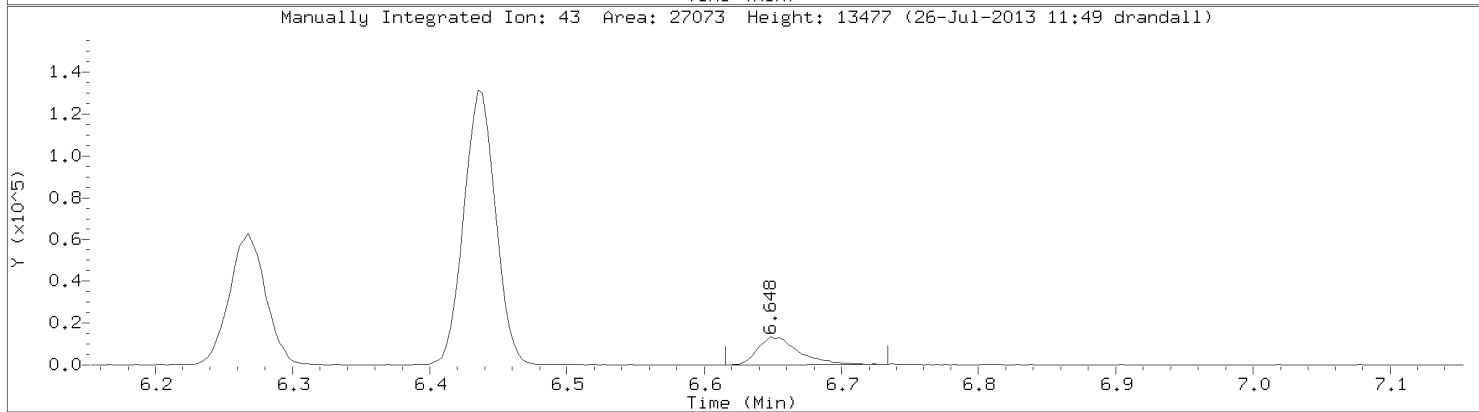
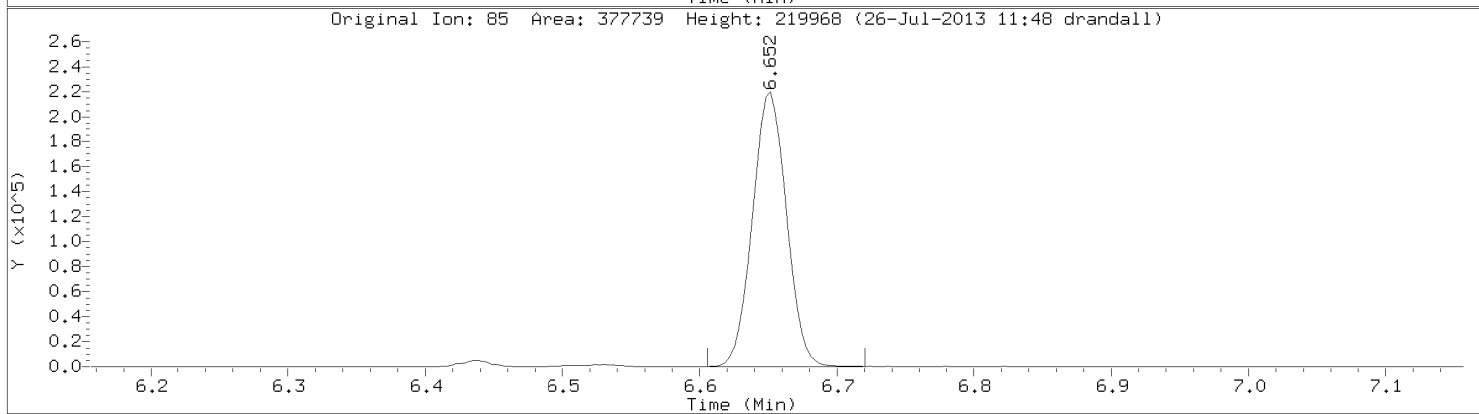
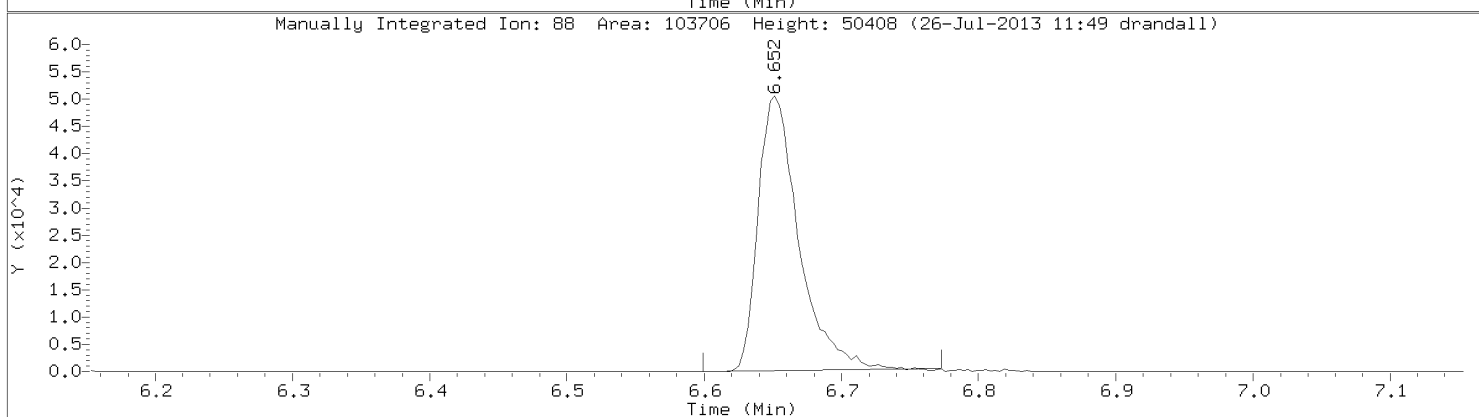
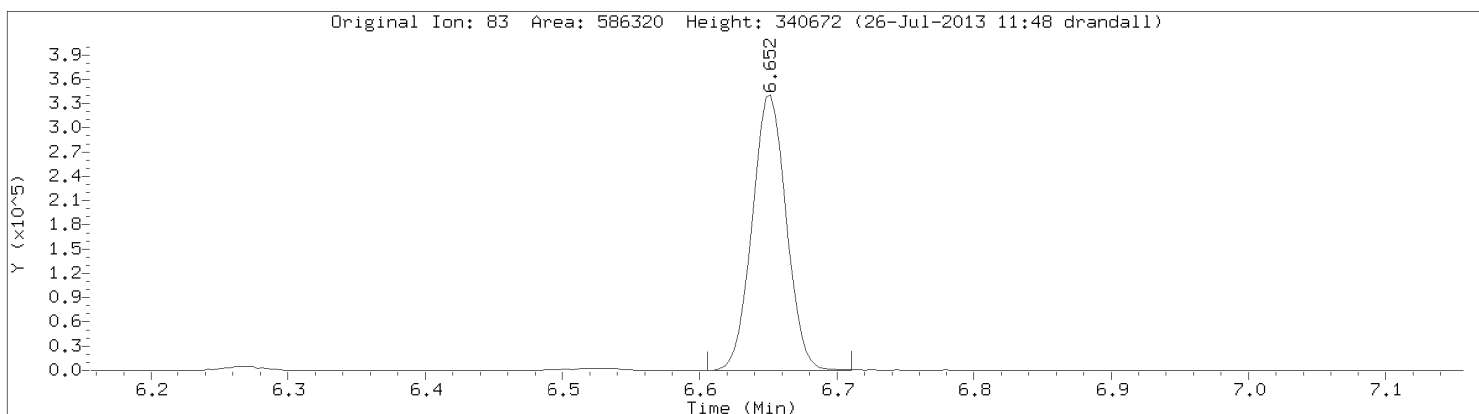


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Instrument: 10airD.i
Lab Sample ID: CCAL



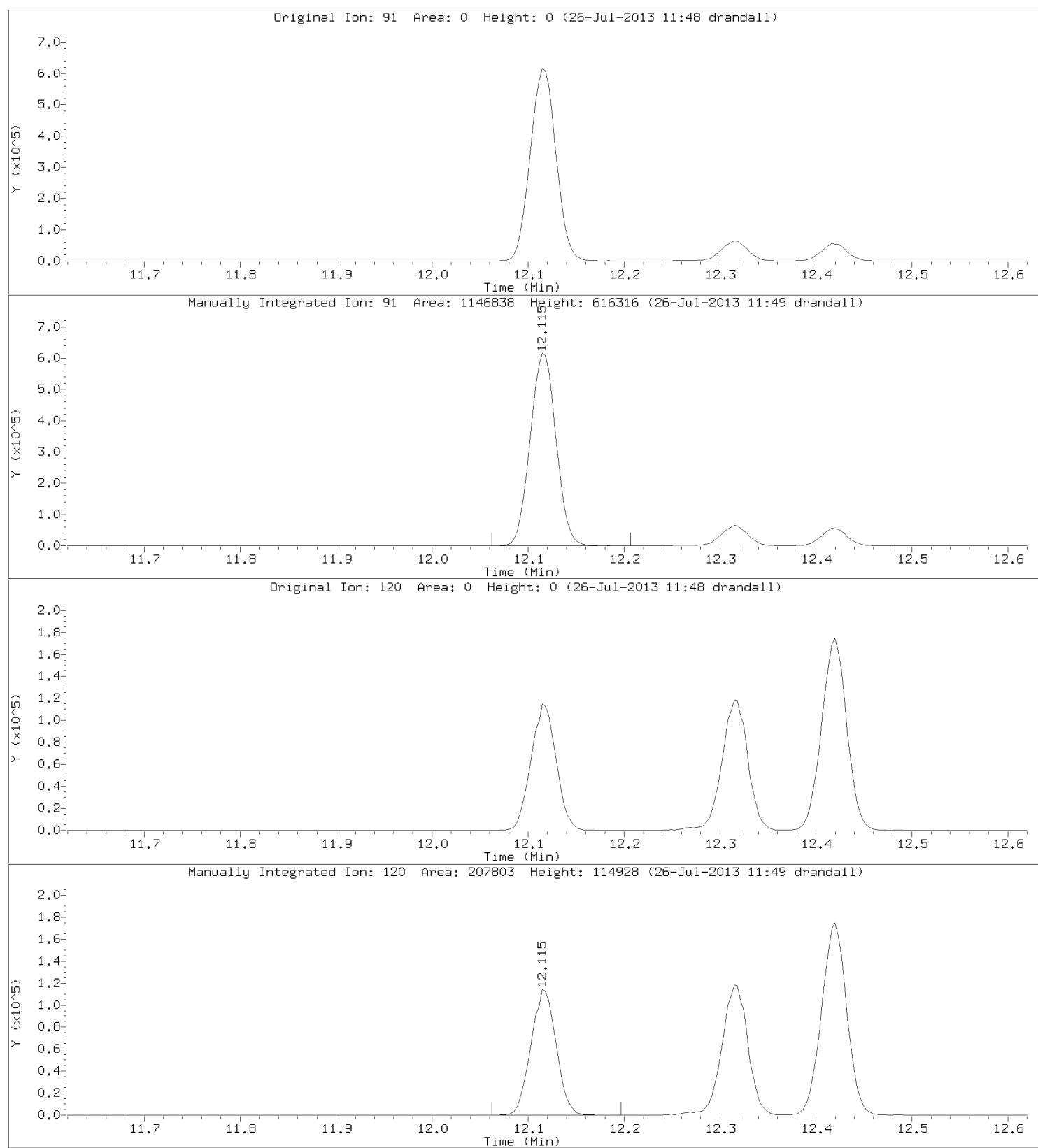
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Injection Date: 26-JUL-2013 11:27
Instrument: 10airD.i
Lab Sample ID: CCAL

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



Data File: \\192.168.10.12\chem\10airD.i\072613.b\20702.d
Injection Date: 26-JUL-2013 11:27
Instrument: 10airD.i
Lab Sample ID: CCAL

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



Data File: \\192.168.10.12\chem\10airD.i\072513.b\20605L.d
Report Date: 26-Jul-2013 09:26

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072513.b\20605L.d
Lab Smp Id: 1487046
Inj Date : 25-JUL-2013 14:47
Operator : CJR
Smp Info :
Misc Info : 17870
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
Meth Date : 25-Jul-2013 16:57 creindl Quant Type: ISTD
Cal Date : 24-JUL-2013 16:39 Cal File: 20509.d
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: 10AIRPC4

Inst ID: 10airD.i

Compound Sublist: all.sub

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	CONCENTRATIONS					
			ON-COLUMN	FINAL	REL RT	RESPONSE		
	MASS		RT	EXP RT	REL RT	RESPONSE	(ppbv)	(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\072513.b\20605L.d
 Report Date: 26-Jul-2013 09:26

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
24 Vinyl Acetate	43		Compound Not Detected.					
25 1,1-Dichloroethane	63		Compound Not Detected.					
\$ 26 Hexane-d14 (S)	66		4.693	4.700	(0.771)	255210	9.89273	9.89
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 Chloroform	83		Compound Not Detected.					
32 Tetrahydrofuran	42		Compound Not Detected.					
33 1,1,1-Trichloroethane	97		Compound Not Detected.					
34 1,2-Dichloroethane	62		Compound Not Detected.					
35 Benzene	78		Compound Not Detected.					
36 Carbon tetrachloride	117		Compound Not Detected.					
37 Cyclohexane	56		Compound Not Detected.					
* 38 1,4-Difluorobenzene	114		6.087	6.094	(1.000)	534232	10.0000	
39 2,2,4-Trimethylpentane	57		Compound Not Detected.					
40 Heptane	43		Compound Not Detected.					
41 1,2-Dichloropropane	63		Compound Not Detected.					
42 Trichloroethene	130		Compound Not Detected.					
43 1,4-Dioxane	88		Compound Not Detected.					
44 Bromodichloromethane	83		Compound Not Detected.					
45 Methyl Isobutyl Ketone	43		Compound Not Detected.					
46 cis-1,3-Dichloropropene	75		Compound Not Detected.					
47 trans-1,3-Dichloropropene	75		Compound Not Detected.					
\$ 48 Toluene-d8 (S)	98		7.841	7.848	(1.288)	350080	9.38287	9.38
49 Toluene	91		Compound Not Detected.					
50 1,1,2-Trichloroethane	97		Compound Not Detected.					
51 Methyl Butyl Ketone	43		Compound Not Detected.					
52 Dibromochloromethane	129		Compound Not Detected.					
53 1,2-Dibromoethane	107		Compound Not Detected.					
54 Tetrachloroethene	166		Compound Not Detected.					
* 55 Chlorobenzene - d5	117		9.684	9.691	(1.000)	173580	10.0000	
56 Chlorobenzene	112		Compound Not Detected.					
57 Ethyl Benzene	91		Compound Not Detected.					
58 m&p-Xylene	91		Compound Not Detected.					
59 Bromoform	173		Compound Not Detected.					
60 Styrene	104		Compound Not Detected.					
61 o-Xylene	91		Compound Not Detected.					
62 1,1,2,2-Tetrachloroethane	83		Compound Not Detected.					
63 Isopropylbenzene	105		Compound Not Detected.					
64 N-Propylbenzene	91		Compound Not Detected.					
65 4-Ethyltoluene	105		Compound Not Detected.					
66 1,3,5-Trimethylbenzene	105		Compound Not Detected.					
67 1,2,4-Trimethylbenzene	105		Compound Not Detected.					
68 1,3-Dichlorobenzene	146		Compound Not Detected.					
69 Sec- Butylbenzene	105		Compound Not Detected.					
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.452	13.459	(1.389)	49196	7.02150	7.02
71 Benzyl Chloride	91		Compound Not Detected.					
72 1,4-Dichlorobenzene	146		Compound Not Detected.					
73 1,2-Dichlorobenzene	146		Compound Not Detected.					
74 N-Butylbenzene	91		Compound Not Detected.					
75 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
76 Naphthalene	128		Compound Not Detected.					
77 Hexachlorobutadiene	225		Compound Not Detected.					

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20605L.d
Report Date: 26-Jul-2013 09:26

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
	MASS					ON-COLUMN	FINAL
=====	====	====	=====	=====	=====	=====	

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20605L.d
 Report Date: 26-Jul-2013 09:26

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 10airD.i
 Lab File ID: 20605L.d
 Lab Smp Id: 1487046
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: CJR
 Method File: \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
 Misc Info: 17870

Calibration Date: 25-JUL-2013
 Calibration Time: 13:08
 Level: LOW
 Sample Type: AIR

Test Mode:

Use Initial Calibration Level 4.
 If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	534232	-7.86
55 Chlorobenzene - d	221404	132842	309966	173580	-21.60

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	-0.05
55 Chlorobenzene - d	9.69	9.36	10.02	9.68	-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\072513.b\20605L.D

Date : 25-JUL-2013 14:47

Client ID:

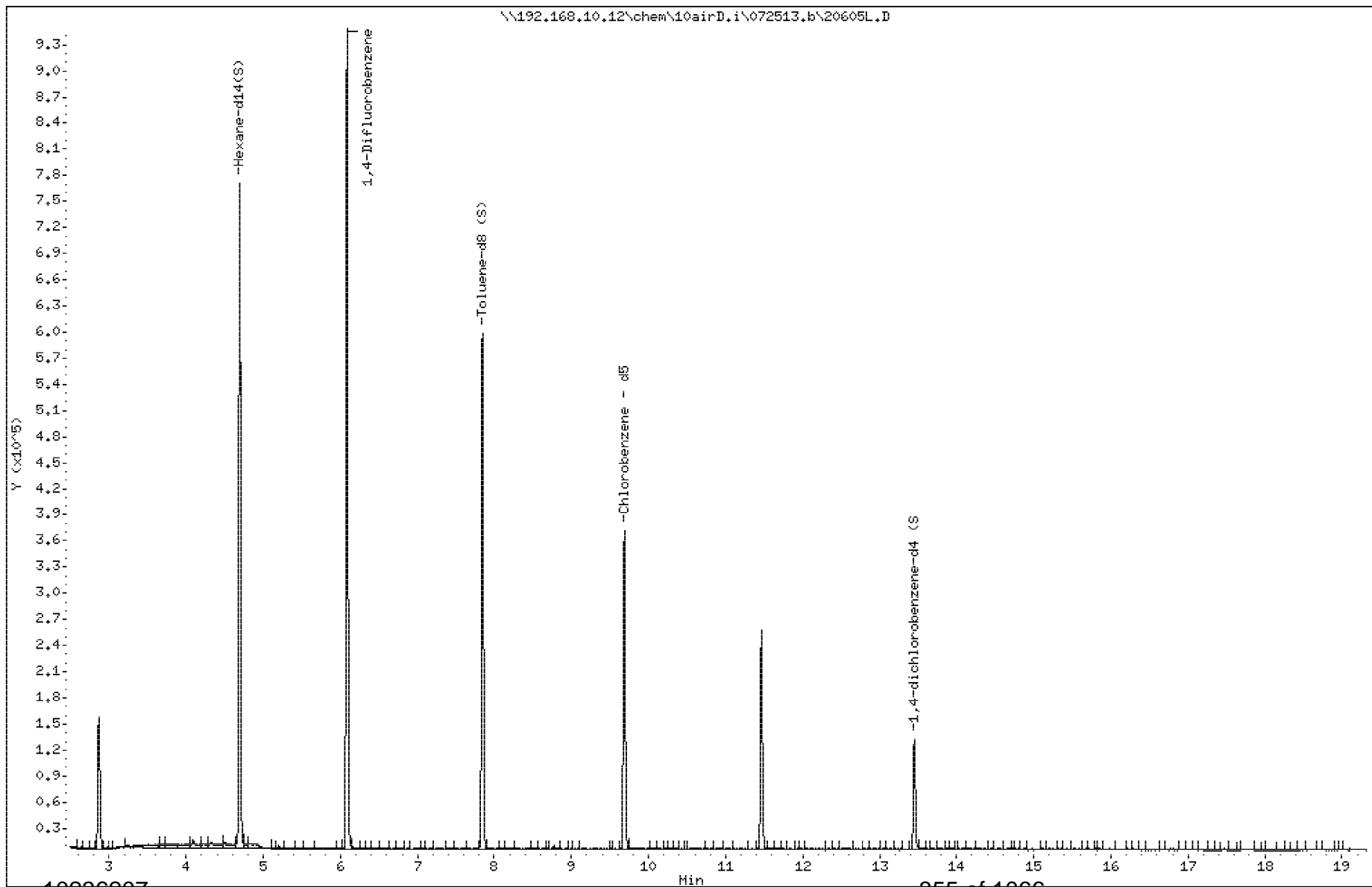
Instrument: 10airD.i

Sample Info:

Operator: CJR

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD.i\072513.b\20605L.d
Injection Date: 25-JUL-2013 14:47
Instrument: 10airD.i
Lab Sample ID: 1487046
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Data File: \\192.168.10.12\chem\10airD.i\072613.b\20706L.d
Report Date: 29-Jul-2013 09:25

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072613.b\20706L.d
Lab Smp Id: 1488122
Inj Date : 26-JUL-2013 13:38
Operator : DR1 Inst ID: 10airD.i
Smp Info :
Misc Info : 17876
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airD.i\072613.b\TO15_205-13.m
Meth Date : 26-Jul-2013 11:48 drandall Quant Type: ISTD
Cal Date : 24-JUL-2013 16:39 Cal File: 20509.d
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14
Processing Host: 10AIRPC4

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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ppbv)	FINAL (ppbv)
1 Propylene	41						
2 Dichlorodifluoromethane	85						
3 Dichlorotetrafluoroethane	85						
4 Chloromethane	50						
5 Vinyl chloride	62						
6 1,3-Butadiene	54						
7 Bromomethane	94						
8 Chloroethane	64						
9 Ethanol	31						
10 Vinyl Bromide	106						
11 Acrolein	56						
12 Trichlorofluoromethane	101						
13 Acetone	43						
14 Isopropyl Alcohol	45						
15 1,1-Dichloroethene	61						
16 Acrylonitrile	53						
17 Tert Butyl Alcohol	59						
18 Freon 113	101						
19 Methylene chloride	49						
20 Allyl Chloride	76						
21 Carbon Disulfide	76						
22 trans-1,2-dichloroethene	96						
23 Methyl Tert Butyl Ether	73						

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
24 Vinyl Acetate	43		Compound Not Detected.					
25 1,1-Dichloroethane	63		Compound Not Detected.					
\$ 26 Hexane-d14 (S)	66		4.697	4.700	(0.772)	247314	9.40849	9.41
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 Chloroform	83		Compound Not Detected.					
32 Tetrahydrofuran	42		Compound Not Detected.					
33 1,1,1-Trichloroethane	97		Compound Not Detected.					
34 1,2-Dichloroethane	62		Compound Not Detected.					
35 Benzene	78		Compound Not Detected.					
36 Carbon tetrachloride	117		Compound Not Detected.					
37 Cyclohexane	56		Compound Not Detected.					
* 38 1,4-Difluorobenzene	114		6.087	6.094	(1.000)	544349	10.0000	
39 2,2,4-Trimethylpentane	57		Compound Not Detected.					
40 Heptane	43		Compound Not Detected.					
41 1,2-Dichloropropane	63		Compound Not Detected.					
42 Trichloroethene	130		Compound Not Detected.					
43 1,4-Dioxane	88		Compound Not Detected.					
44 Bromodichloromethane	83		Compound Not Detected.					
45 Methyl Isobutyl Ketone	43		Compound Not Detected.					
46 cis-1,3-Dichloropropene	75		Compound Not Detected.					
47 trans-1,3-Dichloropropene	75		Compound Not Detected.					
\$ 48 Toluene-d8 (S)	98		7.841	7.848	(1.288)	370627	9.74895	9.75
49 Toluene	91		Compound Not Detected.					
50 1,1,2-Trichloroethane	97		Compound Not Detected.					
51 Methyl Butyl Ketone	43		Compound Not Detected.					
52 Dibromochloromethane	129		Compound Not Detected.					
53 1,2-Dibromoethane	107		Compound Not Detected.					
54 Tetrachloroethene	166		Compound Not Detected.					
* 55 Chlorobenzene - d5	117		9.684	9.691	(1.000)	182794	10.0000	
56 Chlorobenzene	112		Compound Not Detected.					
57 Ethyl Benzene	91		Compound Not Detected.					
58 m&p-Xylene	91		Compound Not Detected.					
59 Bromoform	173		Compound Not Detected.					
60 Styrene	104		Compound Not Detected.					
61 o-Xylene	91		Compound Not Detected.					
62 1,1,2,2-Tetrachloroethane	83		Compound Not Detected.					
63 Isopropylbenzene	105		Compound Not Detected.					
64 N-Propylbenzene	91		Compound Not Detected.					
65 4-Ethyltoluene	105		Compound Not Detected.					
66 1,3,5-Trimethylbenzene	105		Compound Not Detected.					
67 1,2,4-Trimethylbenzene	105		Compound Not Detected.					
68 1,3-Dichlorobenzene	146		Compound Not Detected.					
69 Sec- Butylbenzene	105		Compound Not Detected.					
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.452	13.459	(1.389)	53342	7.22948	7.23
71 Benzyl Chloride	91		Compound Not Detected.					
72 1,4-Dichlorobenzene	146		Compound Not Detected.					
73 1,2-Dichlorobenzene	146		Compound Not Detected.					
74 N-Butylbenzene	91		Compound Not Detected.					
75 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
76 Naphthalene	128		Compound Not Detected.					
77 Hexachlorobutadiene	225		Compound Not Detected.					

Data File: \\192.168.10.12\chem\10airD.i\072613.b\20706L.d
Report Date: 29-Jul-2013 09:25

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
	MASS					ON-COLUMN	FINAL
=====	====	====	=====	=====	=====	=====	

Data File: \\192.168.10.12\chem\10airD.i\072613.b\20706L.d
 Report Date: 29-Jul-2013 09:25

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 10airD.i
 Lab File ID: 20706L.d
 Lab Smp Id: 1488122
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: DR1
 Method File: \\192.168.10.12\chem\10airD.i\072613.b\TO15_205-13.m
 Misc Info: 17876

Calibration Date: 26-JUL-2013
 Calibration Time: 11:27
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Initial Calibration Level 4.
 If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	544349	-6.11
55 Chlorobenzene - d	221404	132842	309966	182794	-17.44

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	-0.05
55 Chlorobenzene - d	9.69	9.36	10.02	9.68	-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\072613.b\20706L.D

Date : 26-JUL-2013 13:38

Client ID:

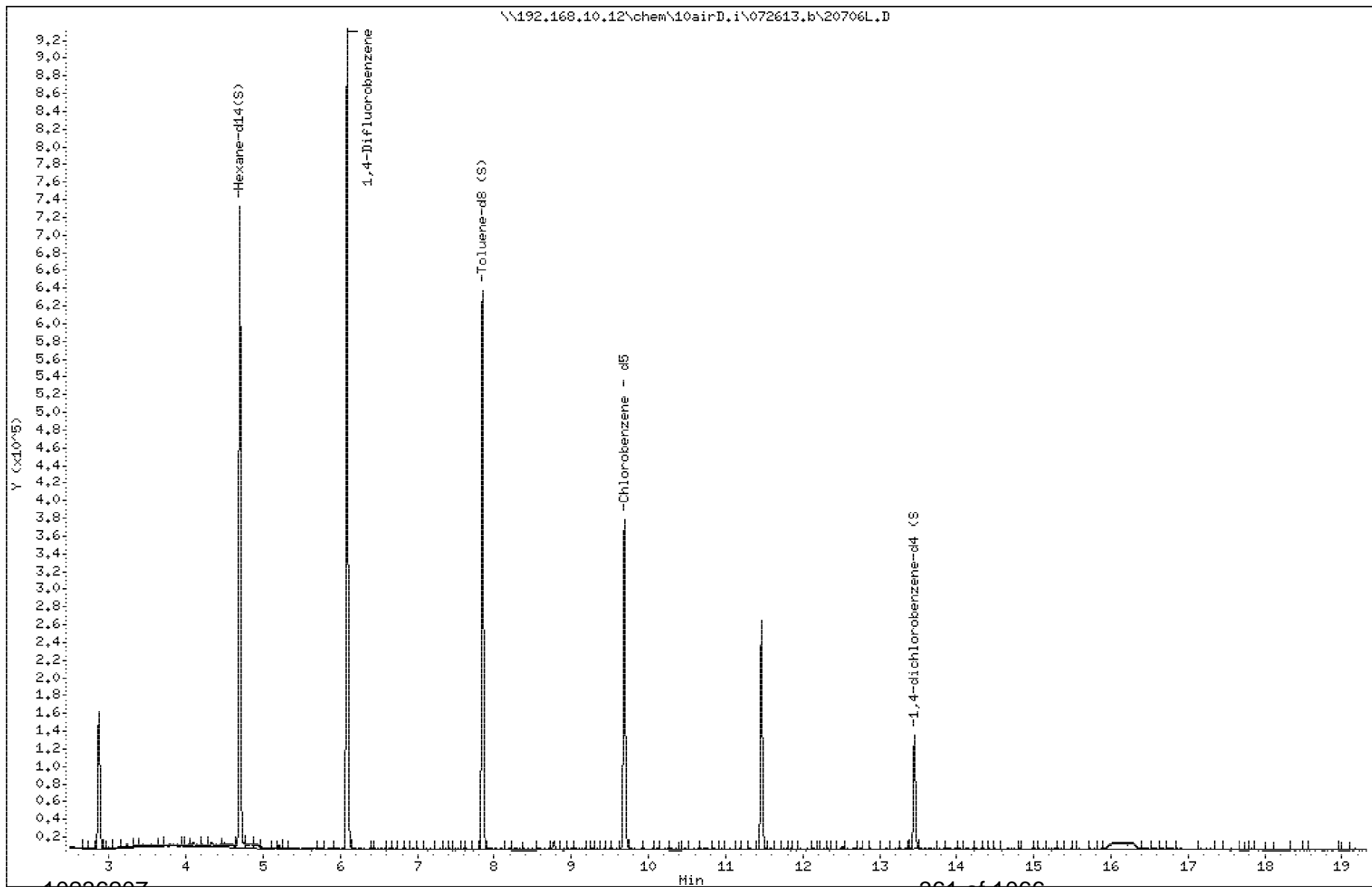
Instrument: 10airD.i

Sample Info:

Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32



Data File: \\192.168.10.12\chem\10airD.i\072613.b\20706L.d
Injection Date: 26-JUL-2013 13:38
Instrument: 10airD.i
Lab Sample ID: 1488122
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072513.b\20602L.d
 Lab Smp Id: 1487047
 Inj Date : 25-JUL-2013 13:08
 Operator : DR1
 Smp Info :
 Misc Info : 17870
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
 Meth Date : 25-Jul-2013 16:57 creindl
 Cal Date : 24-JUL-2013 16:39
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: 10AIRPC4

Inst ID: 10airD.i

Quant Type: ISTD

Cal File: 20509.d

QC Sample: LCS

Compound Sublist: all.sub

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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
1 Propylene	41		2.978	2.982	(0.489)	75482	9.86590	9.86
2 Dichlorodifluoromethane	85		3.008	3.008	(0.494)	695301	9.37514	9.38
3 Dichlorotetrafluoroethane	85		3.103	3.107	(0.510)	557092	9.34807	9.35
4 Chloromethane	50		3.103	3.107	(0.510)	158492	9.36005	9.36
5 Vinyl chloride	62		3.191	3.195	(0.524)	162935	9.65000	9.65
6 1,3-Butadiene	54		3.234	3.238	(0.531)	98449	9.87843	9.88
7 Bromomethane	94		3.391	3.392	(0.557)	195796	9.20794	9.21
8 Chloroethane	64		3.447	3.448	(0.566)	79855	9.24641	9.25 (M)
9 Ethanol	31		3.496	3.494	(0.574)	93619	10.5957	10.6
10 Vinyl Bromide	106		3.585	3.585	(0.589)	199711	9.49845	9.50
11 Acrolein	56		3.683	3.684	(0.605)	56373	9.82560	9.82
12 Trichlorofluoromethane	101		3.693	3.694	(0.606)	741303	9.18877	9.19
13 Acetone	43		3.726	3.726	(0.612)	338413	8.36838	8.37
14 Isopropyl Alcohol	45		3.746	3.756	(0.615)	261340	9.85318	9.85
15 1,1-Dichloroethene	61		3.978	3.979	(0.653)	346218	9.64980	9.65
16 Acrylonitrile	53		3.982	3.985	(0.654)	117231	9.81192	9.81
17 Tert Butyl Alcohol	59		3.982	3.989	(0.654)	406804	9.58876	9.59 (M)
18 Freon 113	101		4.028	4.030	(0.661)	504525	9.37111	9.37
19 Methylene chloride	49		4.090	4.094	(0.672)	208908	9.11792	9.12
20 Allyl Chloride	76		4.100	4.107	(0.673)	87613	10.1915	10.2
21 Carbon Disulfide	76		4.224	4.224	(0.694)	608712	9.12971	9.13
22 trans-1,2-dichloroethene	96		4.418	4.422	(0.725)	223616	9.70085	9.70
23 Methyl Tert Butyl Ether	73		4.454	4.458	(0.731)	585648	10.2981	10.3 (M)

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppbv)	FINAL (ppbv)
24 Vinyl Acetate	43		4.575	4.579	(0.751)	425105	9.79759	9.80	
25 1,1-Dichloroethane	63		4.579	4.582	(0.752)	391291	9.77539	9.78	
\$ 26 Hexane-d14 (S)	66		4.697	4.700	(0.771)	275933	9.36750	9.37	
27 Methyl Ethyl Ketone	72		4.775	4.779	(0.784)	98581	10.5293	10.5	
28 n-Hexane	57		4.815	4.818	(0.791)	256783	9.58942	9.59 (M)	
29 cis-1,2-Dichloroethene	96		4.972	4.979	(0.816)	208699	9.88721	9.89	
30 Ethyl Acetate	43		4.995	4.999	(0.820)	301480	9.84445	9.84 (M)	
31 Chloroform	83		5.113	5.120	(0.840)	508994	10.2114	10.2	
32 Tetrahydrofuran	42		5.310	5.310	(0.872)	118951	9.88538	9.88	
33 1,1,1-Trichloroethane	97		5.595	5.599	(0.919)	560301	10.4847	10.5	
34 1,2-Dichloroethane	62		5.612	5.619	(0.921)	385071	10.4030	10.4	
35 Benzene	78		5.880	5.887	(0.966)	521175	9.52375	9.52	
36 Carbon tetrachloride	117		5.903	5.907	(0.969)	599785	10.4509	10.4	
37 Cyclohexane	56		5.907	5.910	(0.970)	193283	9.35800	9.36	
* 38 1,4-Difluorobenzene	114		6.090	6.094	(1.000)	609998	10.0000		
39 2,2,4-Trimethylpentane	57		6.267	6.271	(1.029)	611636	9.64286	9.64	
40 Heptane	43		6.435	6.442	(1.057)	195298	9.44060	9.44	
41 1,2-Dichloropropane	63		6.507	6.514	(1.068)	158987	9.57040	9.57 (M)	
42 Trichloroethene	130		6.530	6.533	(1.072)	208832	9.33880	9.34	
43 1,4-Dioxane	88		6.648	6.652	(1.092)	101974	10.4062	10.4 (M)	
44 Bromodichloromethane	83		6.651	6.655	(1.092)	565063	10.0281	10.0	
45 Methyl Isobutyl Ketone	43		7.222	7.229	(1.186)	291402	9.73183	9.73	
46 cis-1,3-Dichloropropene	75		7.277	7.281	(1.195)	305073	9.83676	9.84	
47 trans-1,3-Dichloropropene	75		7.769	7.773	(1.276)	344734	9.70777	9.71	
\$ 48 Toluene-d8 (S)	98		7.845	7.848	(1.288)	434934	10.2092	10.2	
49 Toluene	91		7.933	7.940	(1.303)	681013	9.52756	9.53	
50 1,1,2-Trichloroethane	97		7.943	7.950	(1.304)	232525	9.37789	9.38	
51 Methyl Butyl Ketone	43		8.242	8.244	(0.851)	288670	10.2849	10.3	
52 Dibromochloromethane	129		8.553	8.560	(0.883)	439250	10.3631	10.4	
53 1,2-Dibromoethane	107		8.825	8.829	(0.911)	367762	10.1628	10.2	
54 Tetrachloroethene	166		8.914	8.918	(0.920)	336058	9.87631	9.88	
* 55 Chlorobenzene - d5	117		9.688	9.691	(1.000)	221877	10.0000		
56 Chlorobenzene	112		9.737	9.741	(1.005)	447702	10.0588	10.0	
57 Ethyl Benzene	91		10.035	10.039	(1.036)	866868	10.2019	10.2	
58 m&p-Xylene	91		10.206	10.213	(1.053)	690579	10.1996	10.2	
59 Bromoform	173		10.652	10.659	(1.100)	462098	10.0834	10.1	
60 Styrene	104		10.701	10.708	(1.105)	444333	9.95082	9.95	
61 o-Xylene	91		10.776	10.783	(1.112)	725211	10.2802	10.3	
62 1,1,2,2-Tetrachloroethane	83		11.088	11.095	(1.145)	411409	10.0717	10.1	
63 Isopropylbenzene	105		11.455	11.459	(1.182)	915849	10.2518	10.2	
64 N-Propylbenzene	91		12.114	12.121	(1.250)	1099960	10.2939	10.3 (M)	
65 4-Ethyltoluene	105		12.314	12.321	(1.271)	847066	10.2065	10.2	
66 1,3,5-Trimethylbenzene	105		12.419	12.426	(1.282)	748823	10.2435	10.2	
67 1,2,4-Trimethylbenzene	105		13.016	13.020	(1.344)	705769	10.0820	10.1	
68 1,3-Dichlorobenzene	146		13.367	13.374	(1.380)	427455	9.93065	9.93	
69 Sec- Butylbenzene	105		13.393	13.404	(1.382)	995649	10.1996	10.2	
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.449	13.459	(1.388)	93827	10.4765	10.5	
71 Benzyl Chloride	91		13.475	13.486	(1.391)	604799	9.99918	10.0	
72 1,4-Dichlorobenzene	146		13.498	13.509	(1.393)	417655	9.94269	9.94	
73 1,2-Dichlorobenzene	146		14.036	14.043	(1.449)	362318	10.1598	10.2	
74 N-Butylbenzene	91		14.321	14.325	(1.478)	780856	10.4255	10.4	
75 1,2,4-Trichlorobenzene	180		16.679	16.683	(1.722)	244424	10.7522	10.8	
76 Naphthalene	128		16.856	16.860	(1.740)	387324	11.0342	11.0	
77 Hexachlorobutadiene	225		17.233	17.236	(1.779)	283169	10.2018	10.2	

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20602L.d
Report Date: 26-Jul-2013 09:26

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20602L.d
Report Date: 26-Jul-2013 09:26

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 20602L.d
Lab Smp Id: 1487047
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
Misc Info: 17870

Calibration Date: 25-JUL-2013
Calibration Time: 13:08

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	609998	5.21
55 Chlorobenzene - d	221404	132842	309966	221877	0.21

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	0.00
55 Chlorobenzene - d	9.69	9.36	10.02	9.69	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\072513.b\20602L.D

Date : 25-JUL-2013 13:08

Client ID:

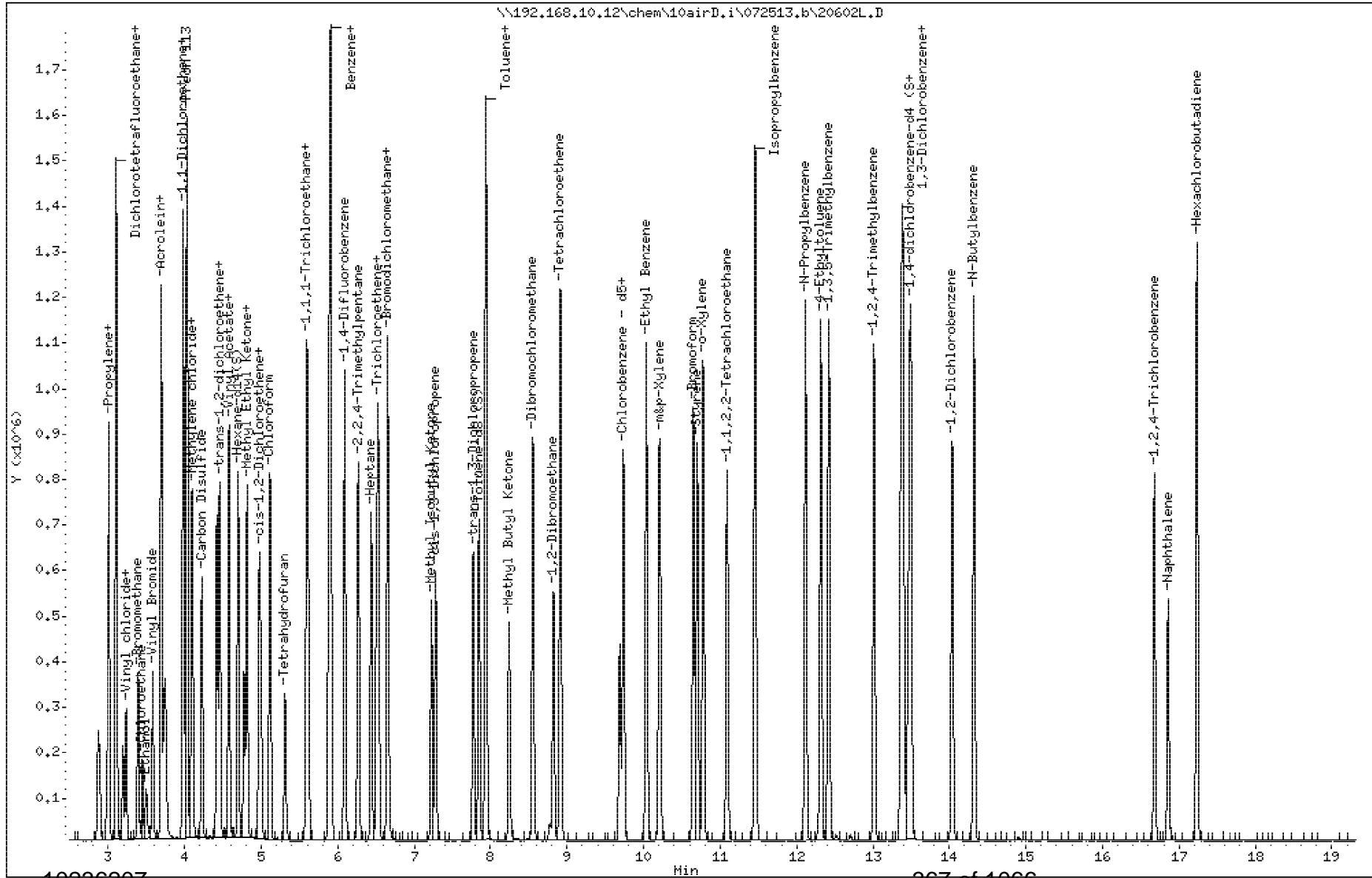
Instrument: 10airD.i

Sample Info:

Operator: DR1

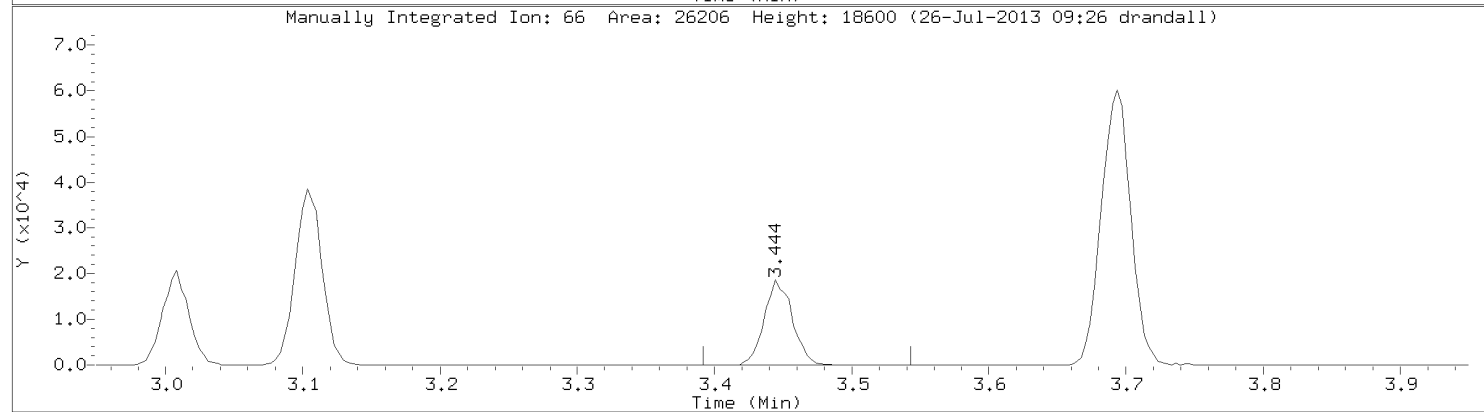
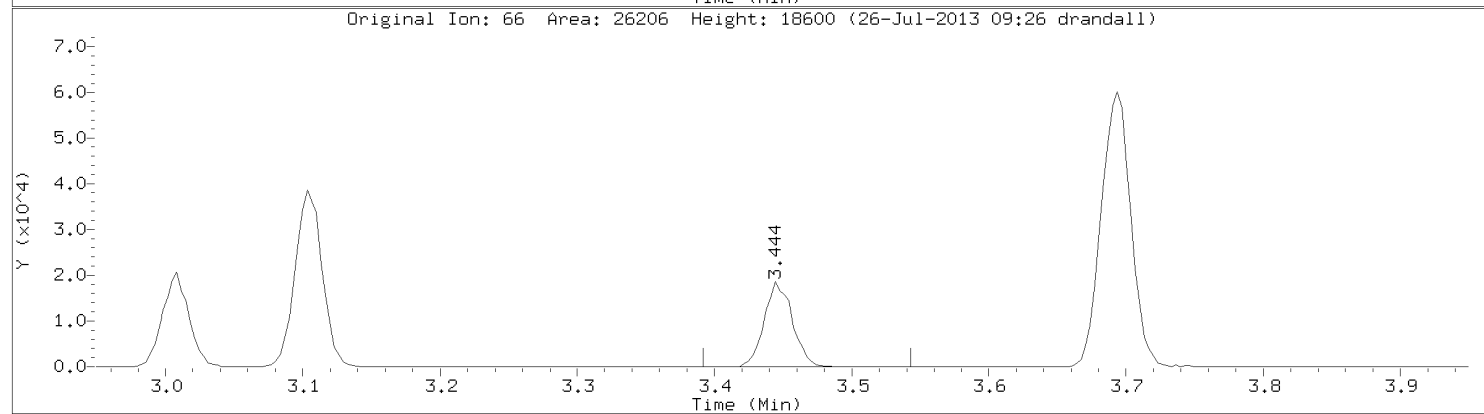
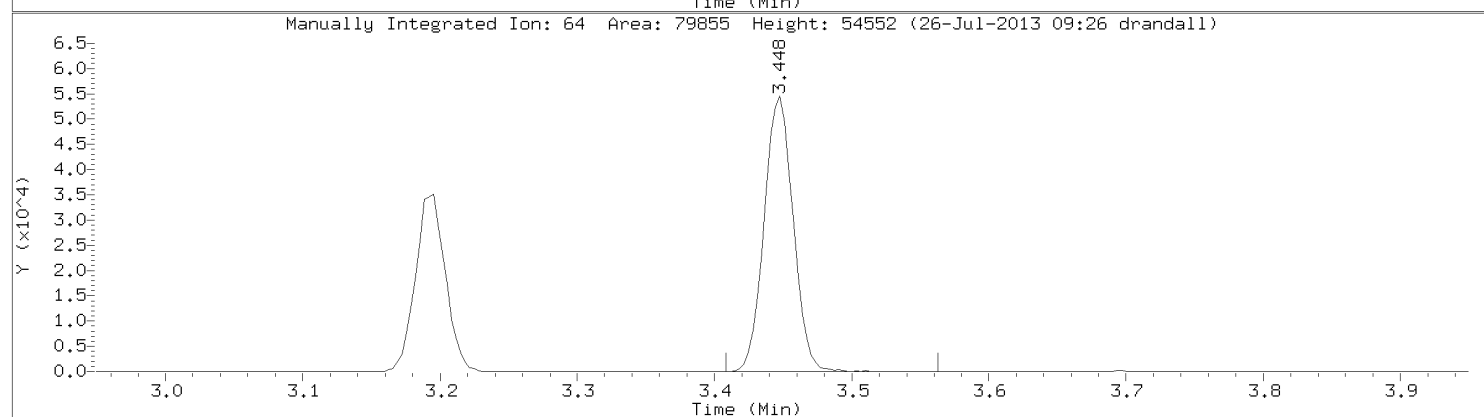
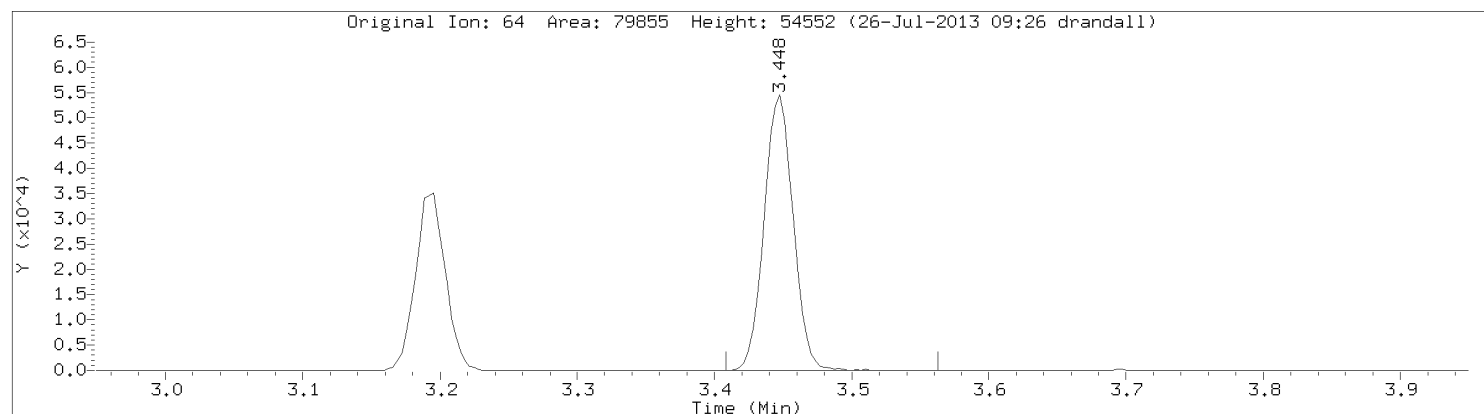
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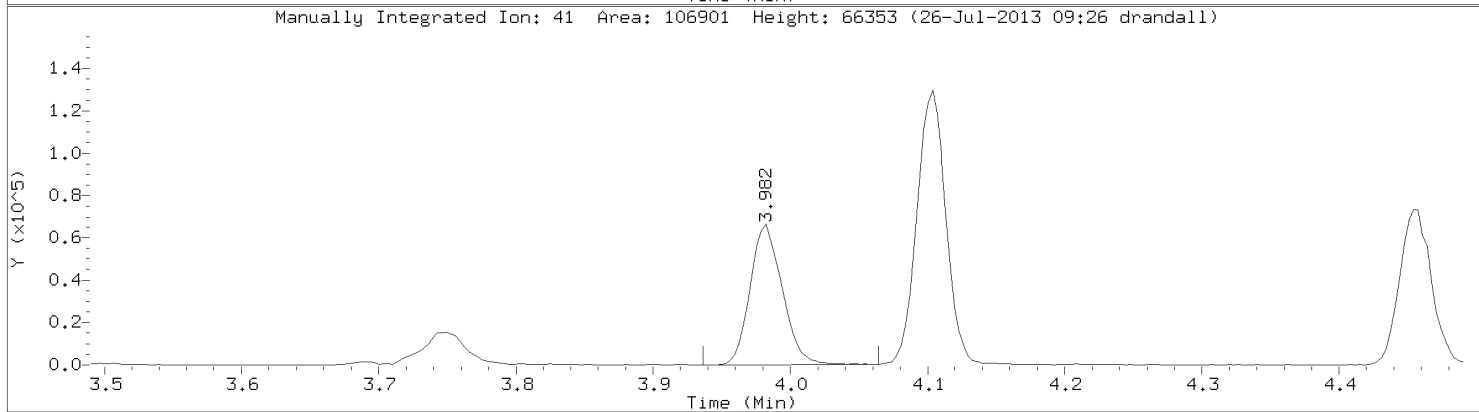
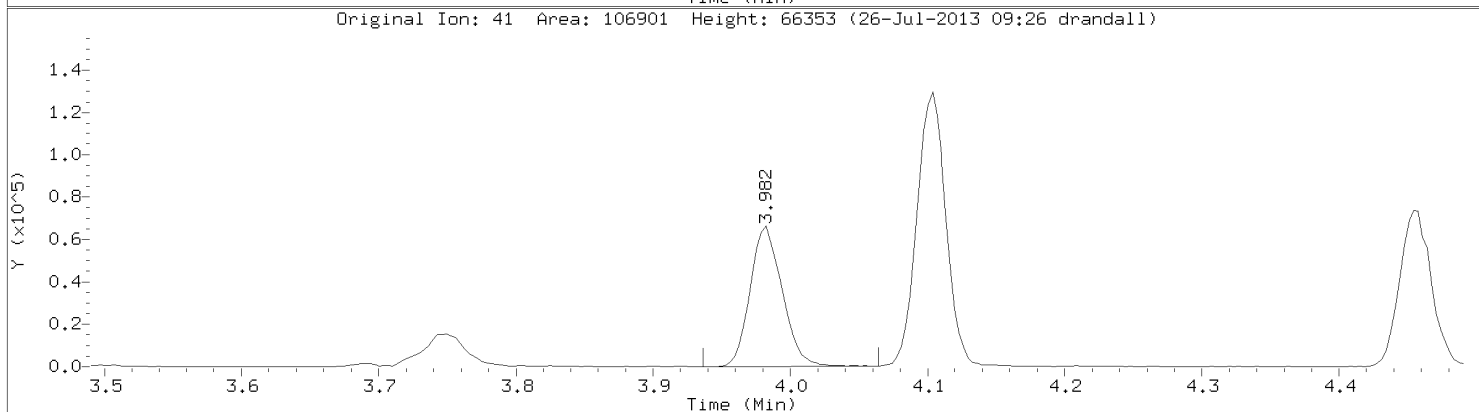
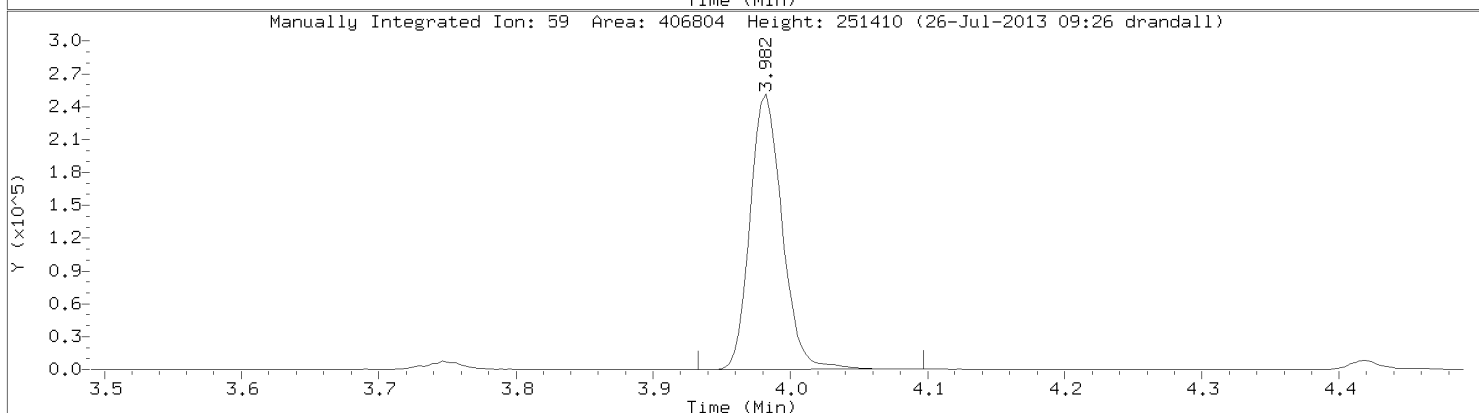
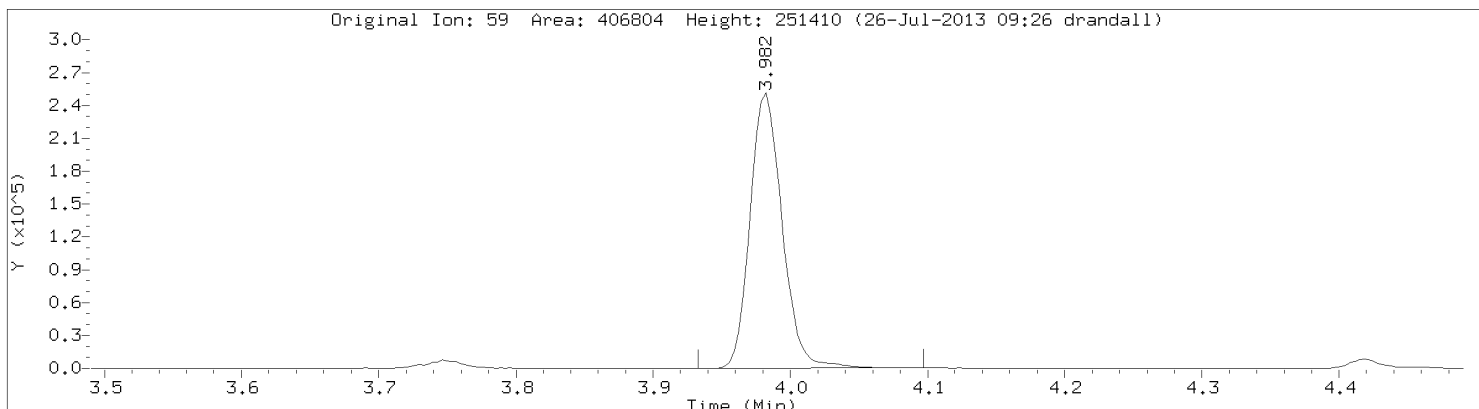
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Injection Date: 25-JUL-2013 13:08
Instrument: 10airD.i
Lab Sample ID: 1487047

Compound: Chloroethane
CAS Number: 75-00-3



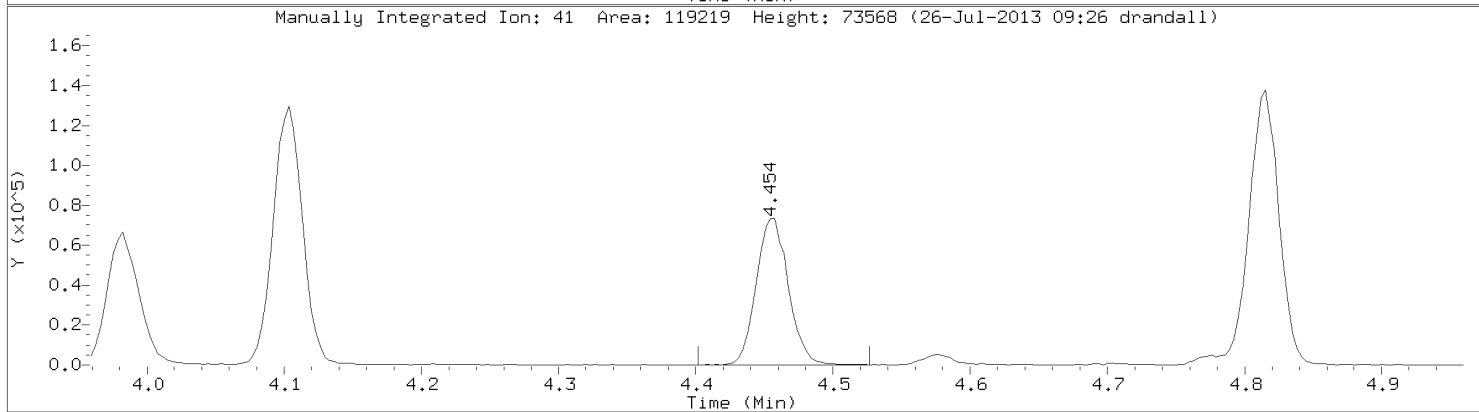
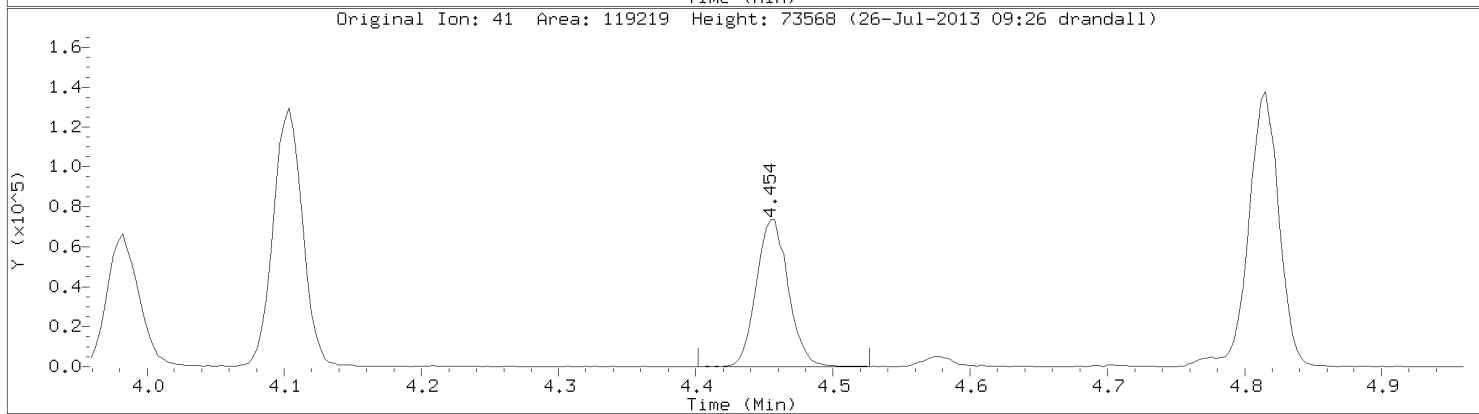
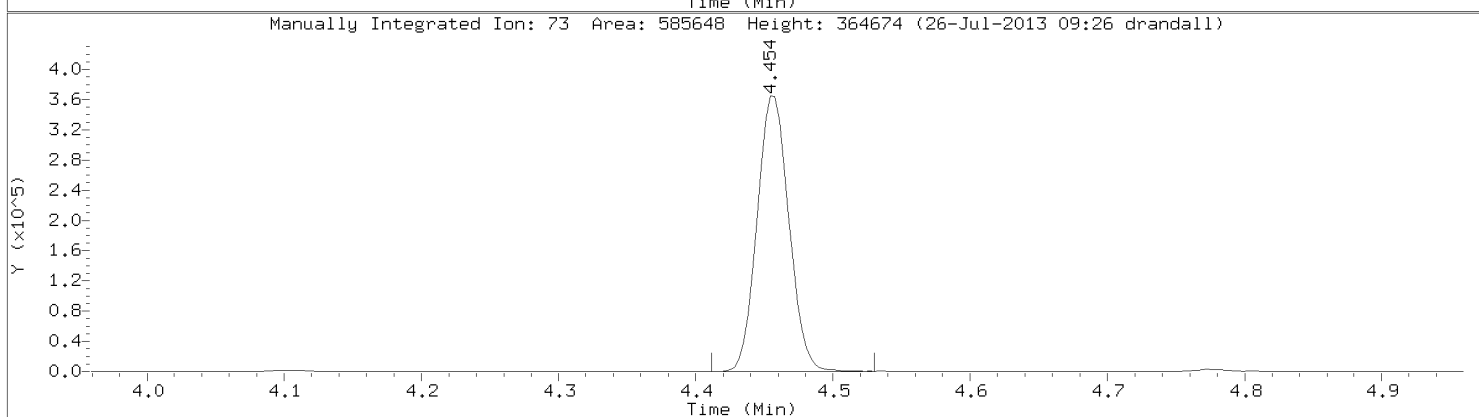
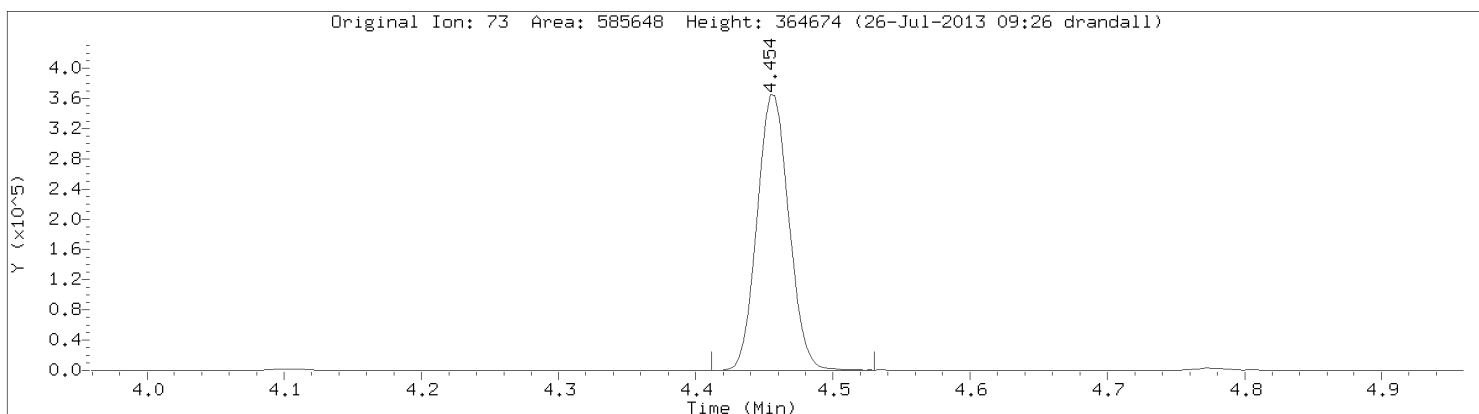
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Injection Date: 25-JUL-2013 13:08
Instrument: 10airD.i
Lab Sample ID: 1487047

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



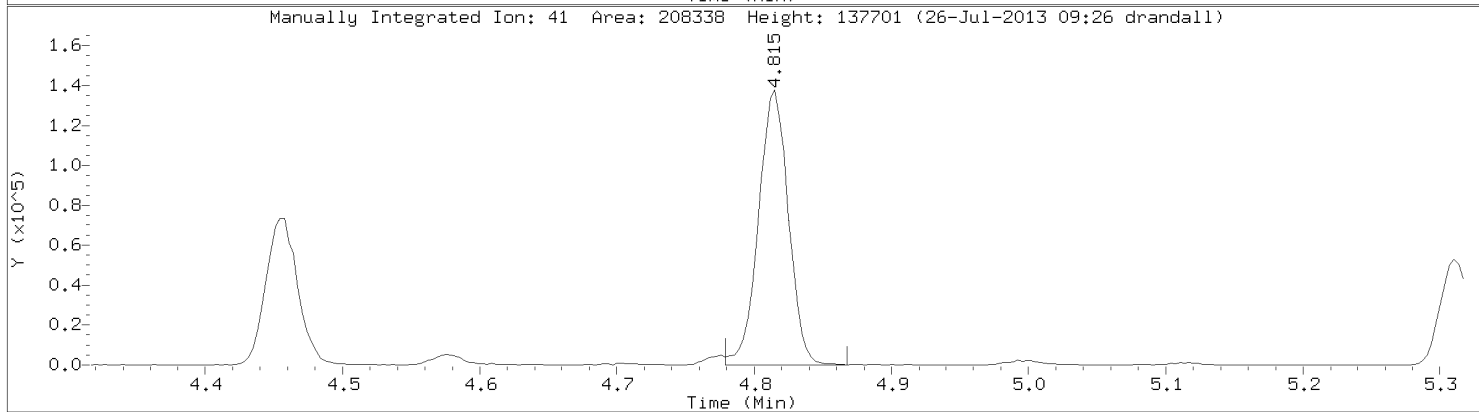
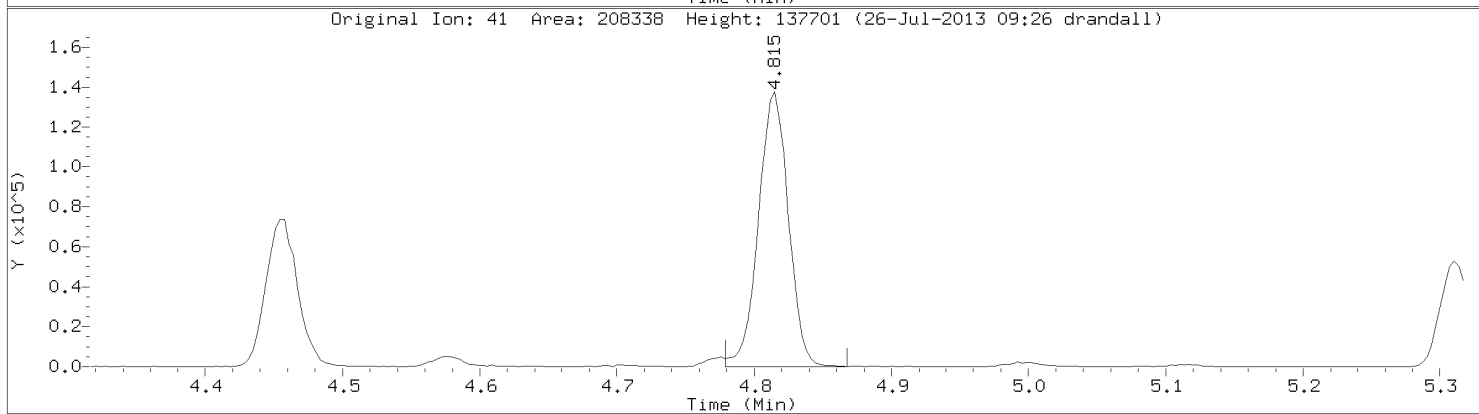
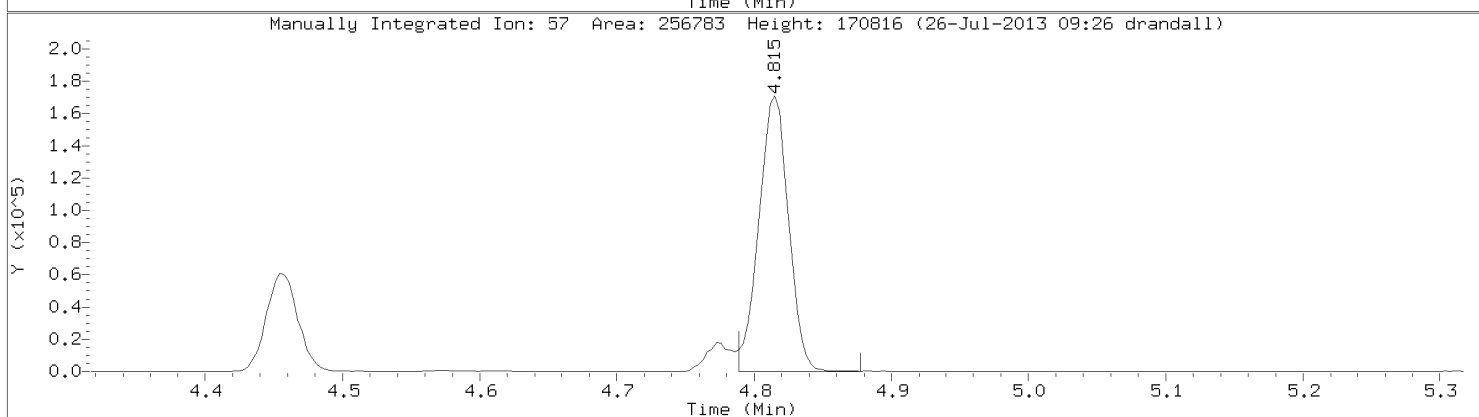
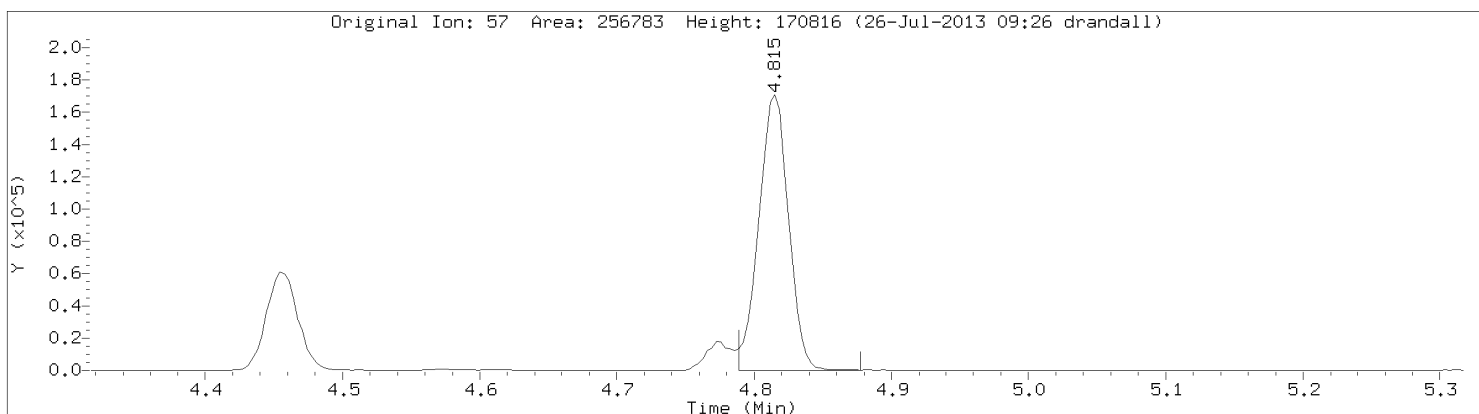
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Injection Date: 25-JUL-2013 13:08
Instrument: 10airD.i
Lab Sample ID: 1487047

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

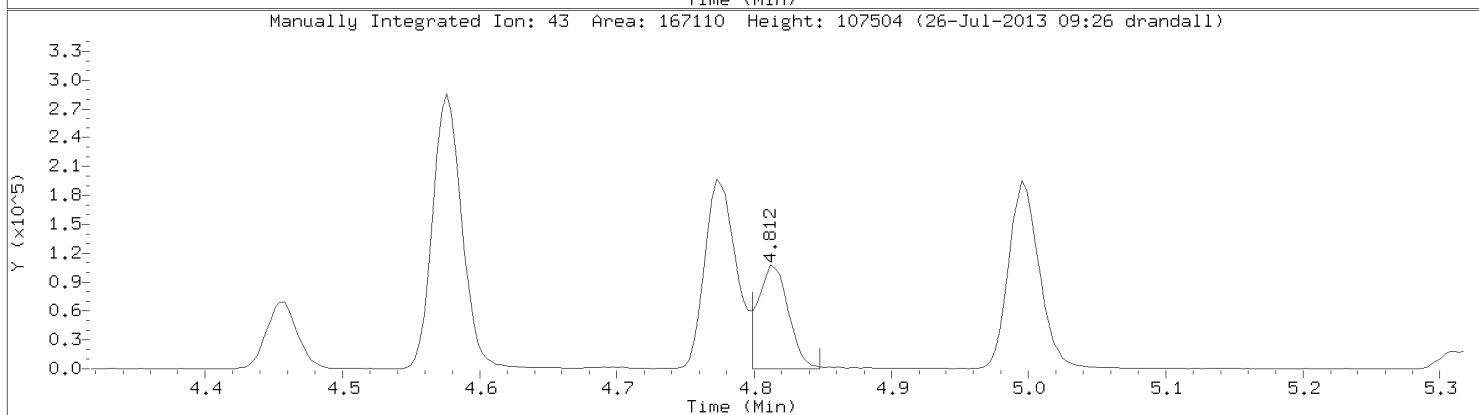
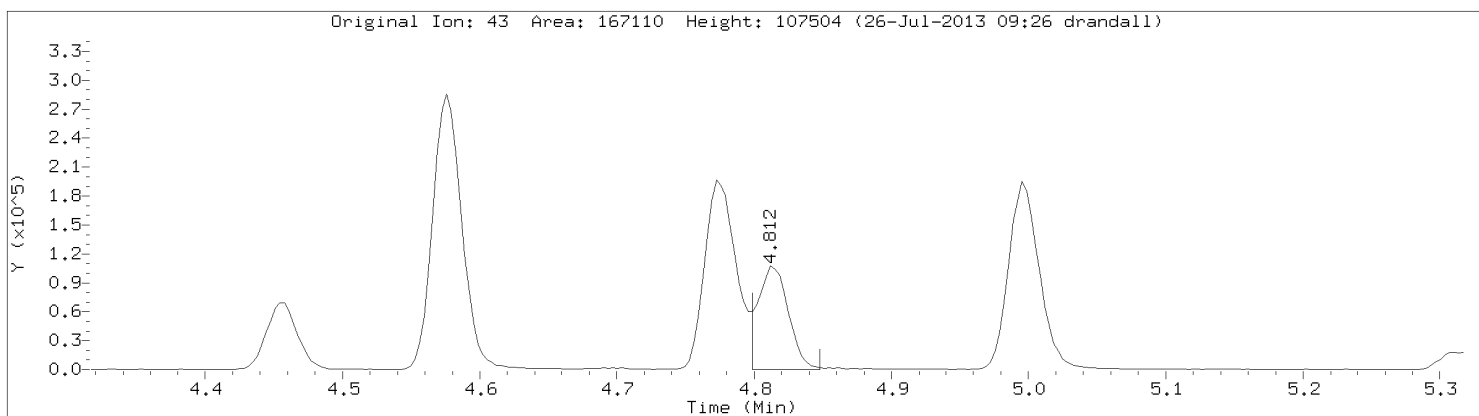


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Injection Date: 25-JUL-2013 13:08
Instrument: 10airD.i
Lab Sample ID: 1487047

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

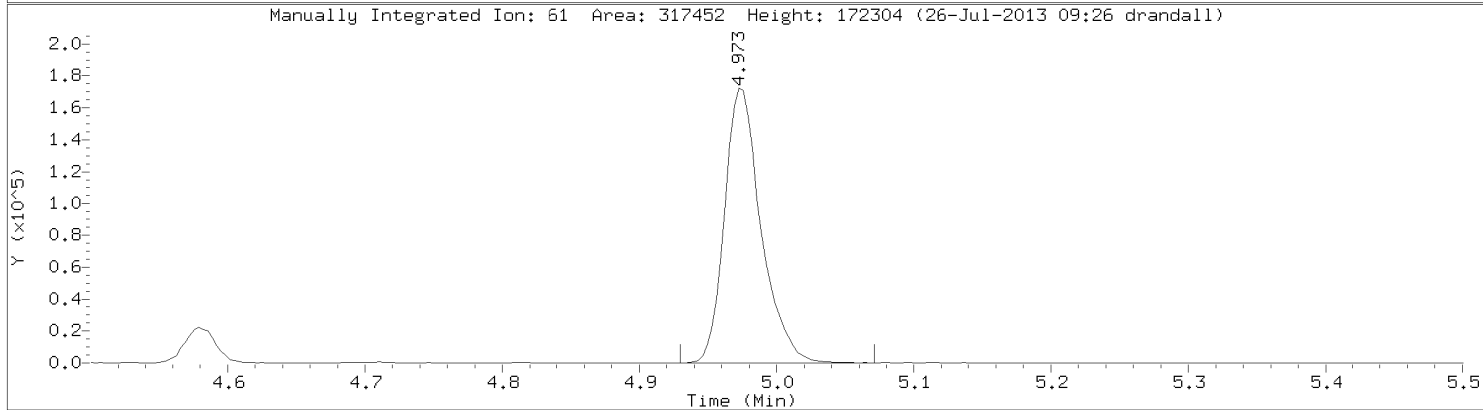
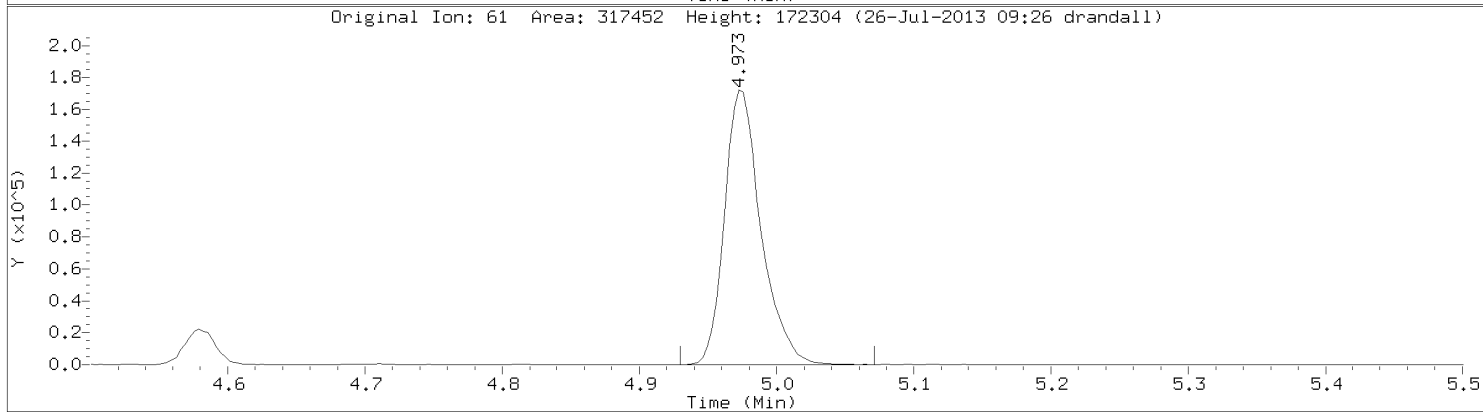
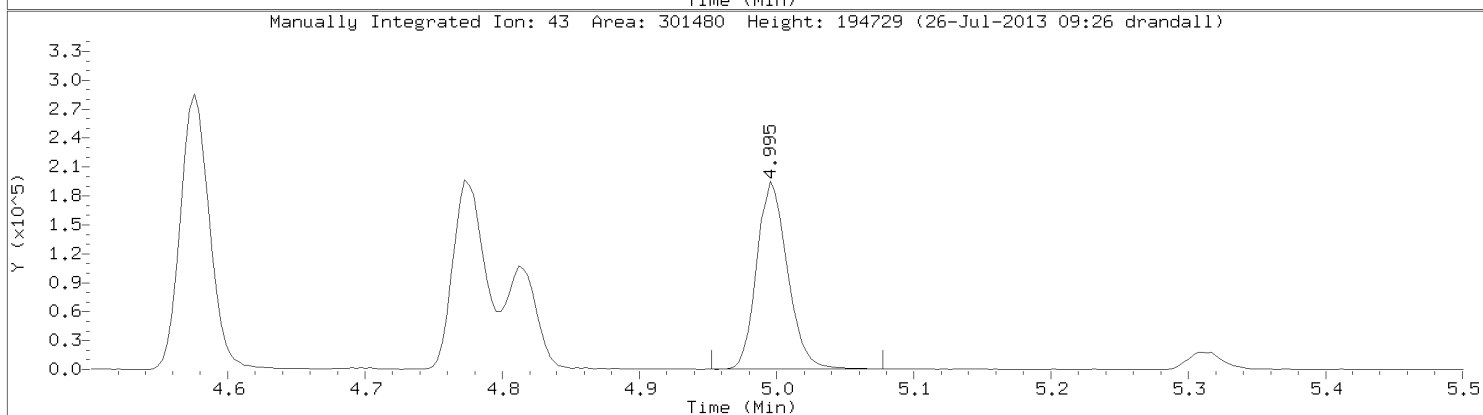
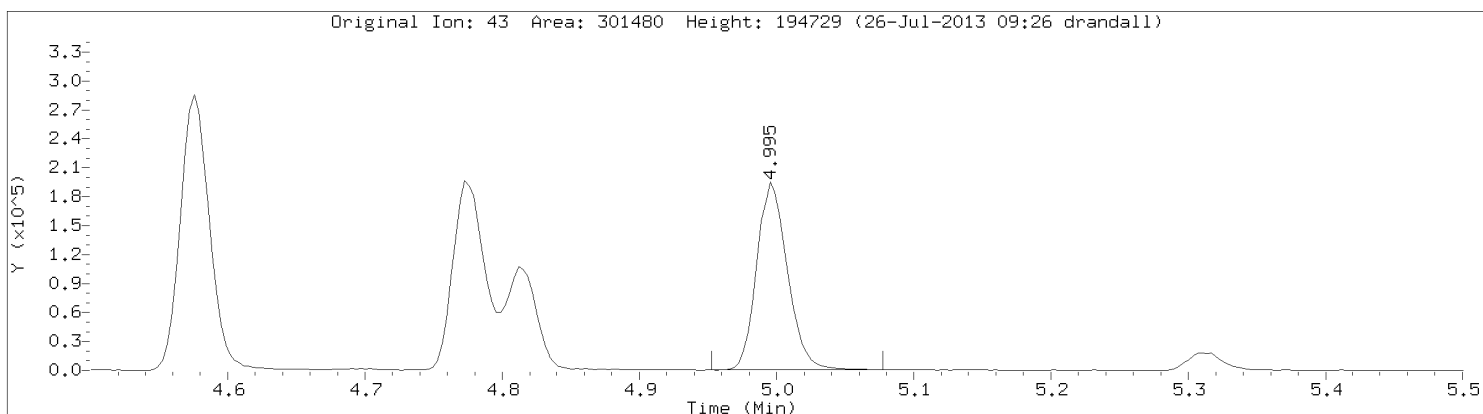


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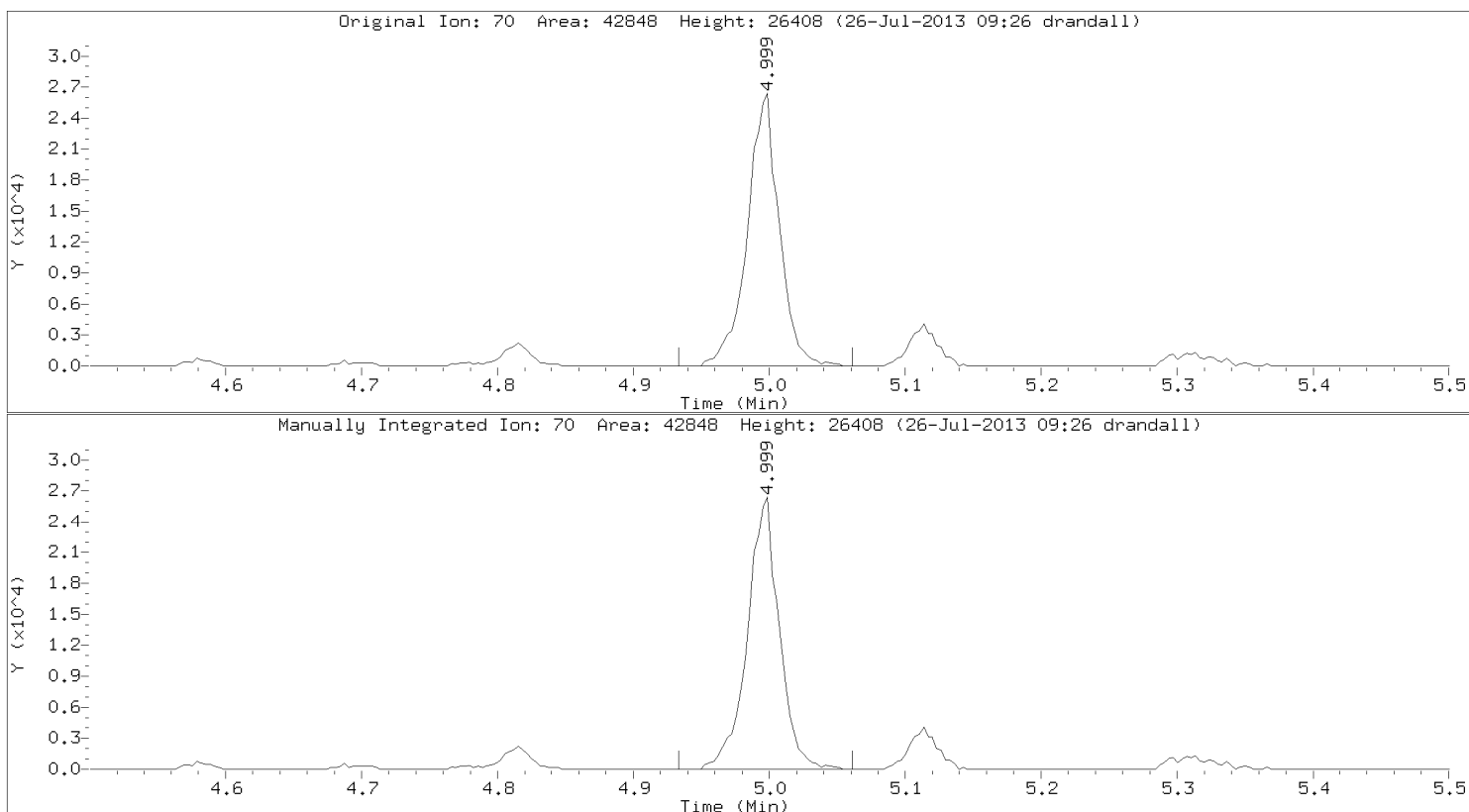


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Instrument: 10airD.i
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Compound: Ethyl Acetate
CAS Number: 141-78-6

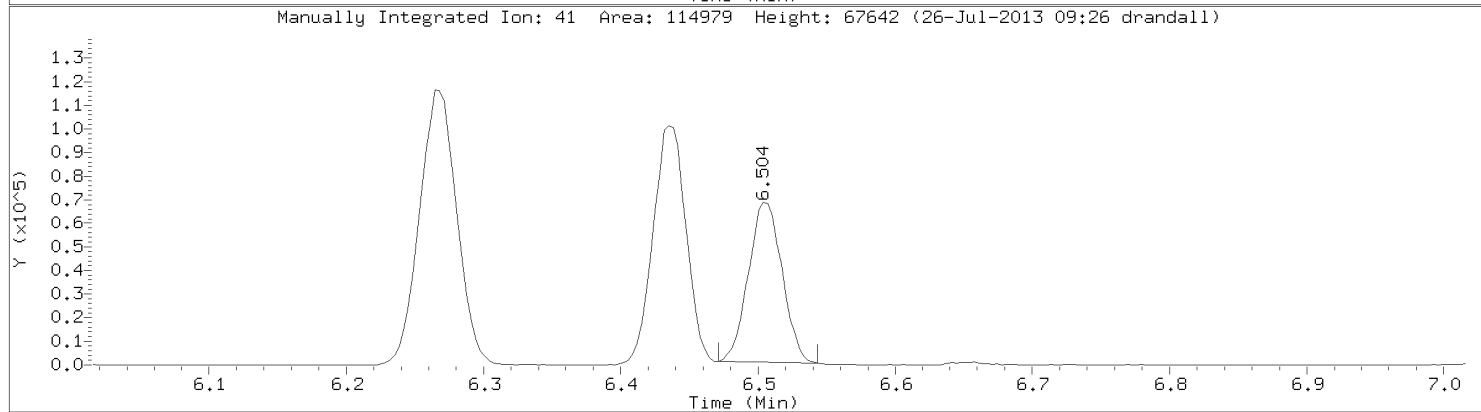
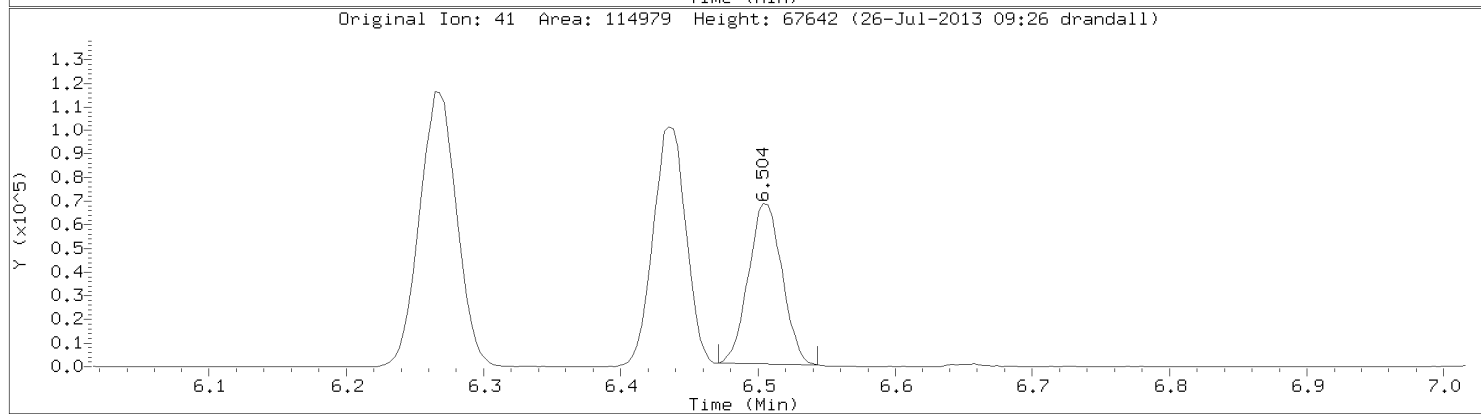
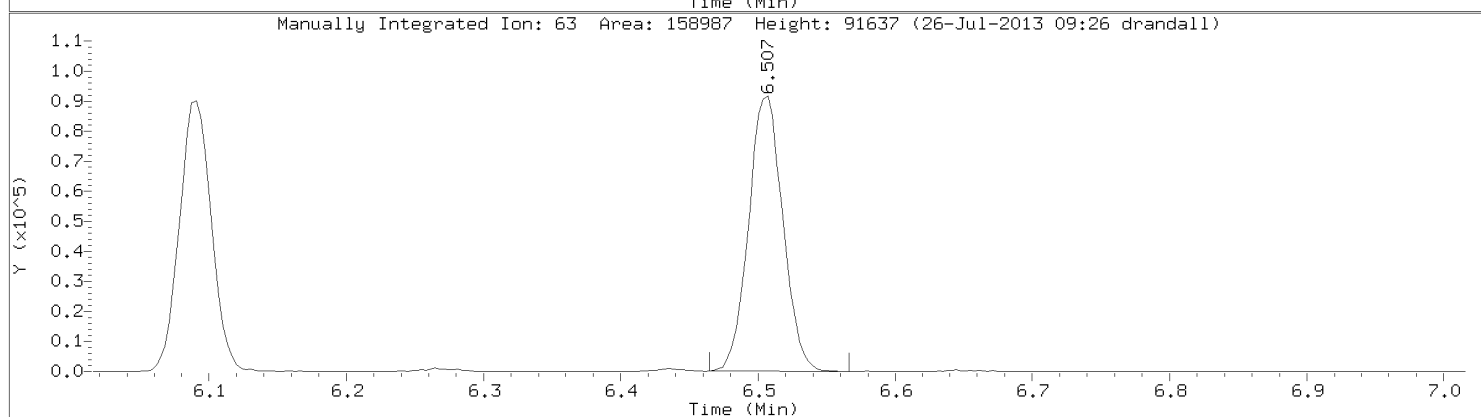
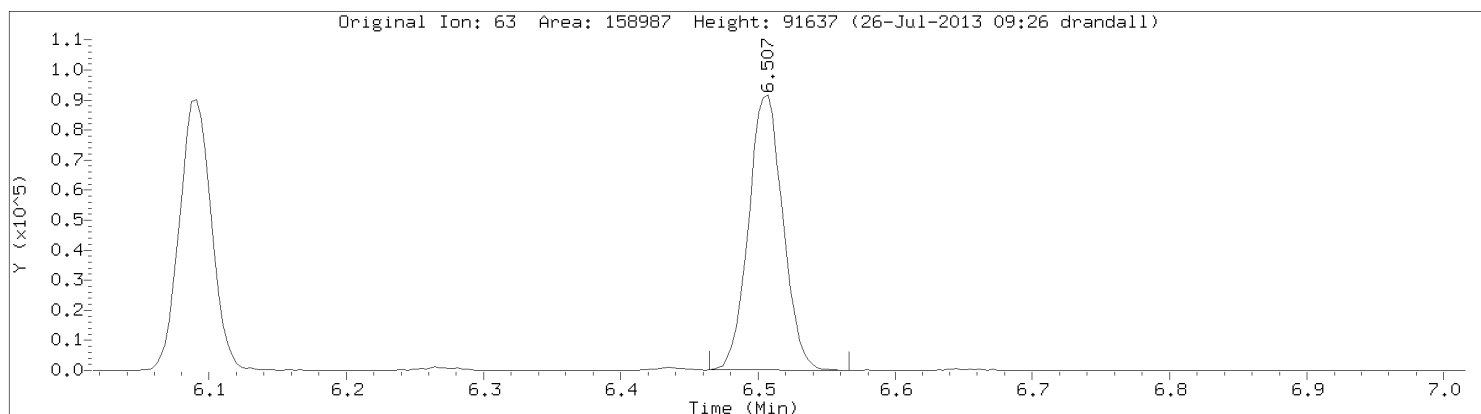


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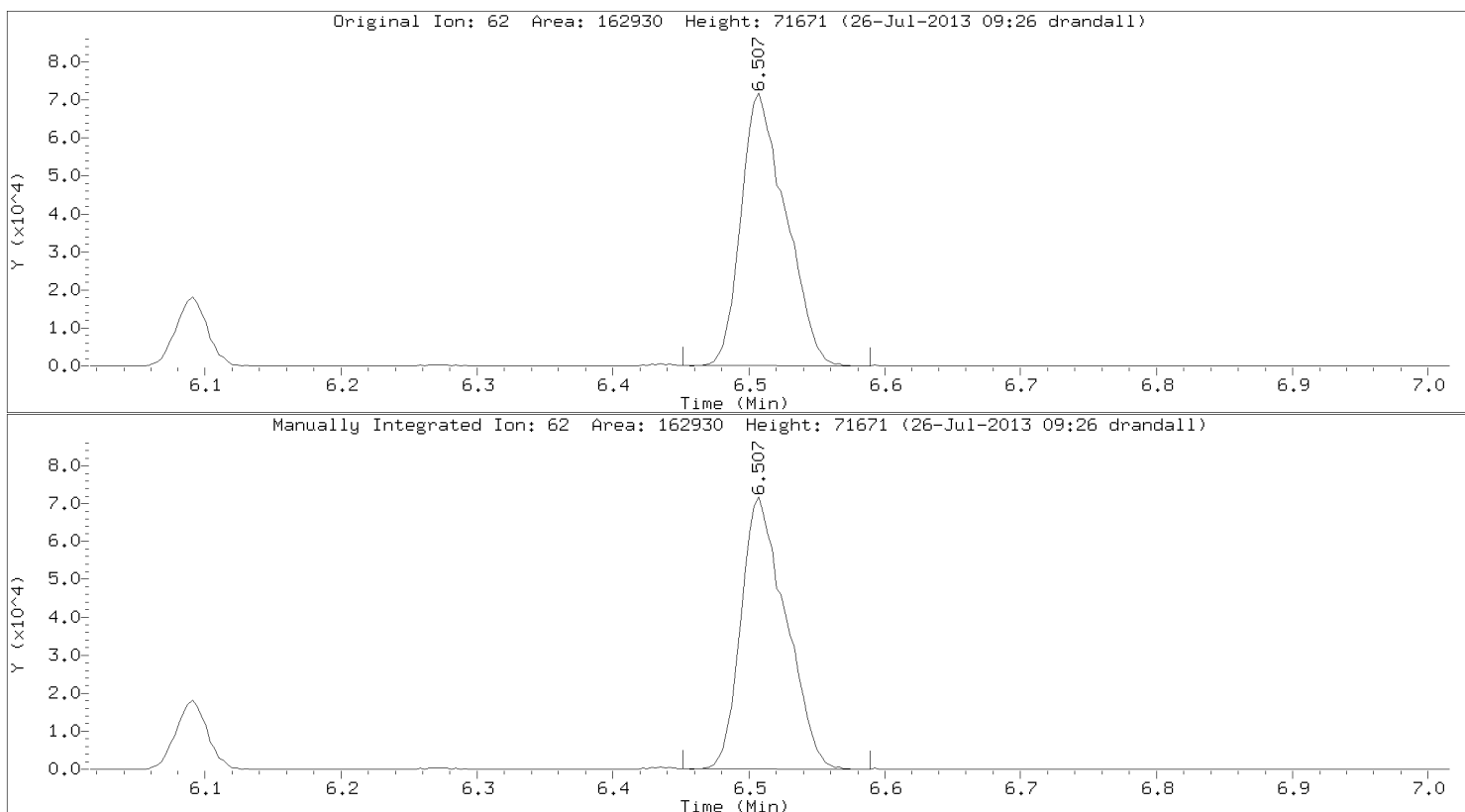


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Instrument: 10airD.i
Lab Sample ID: 1487047

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

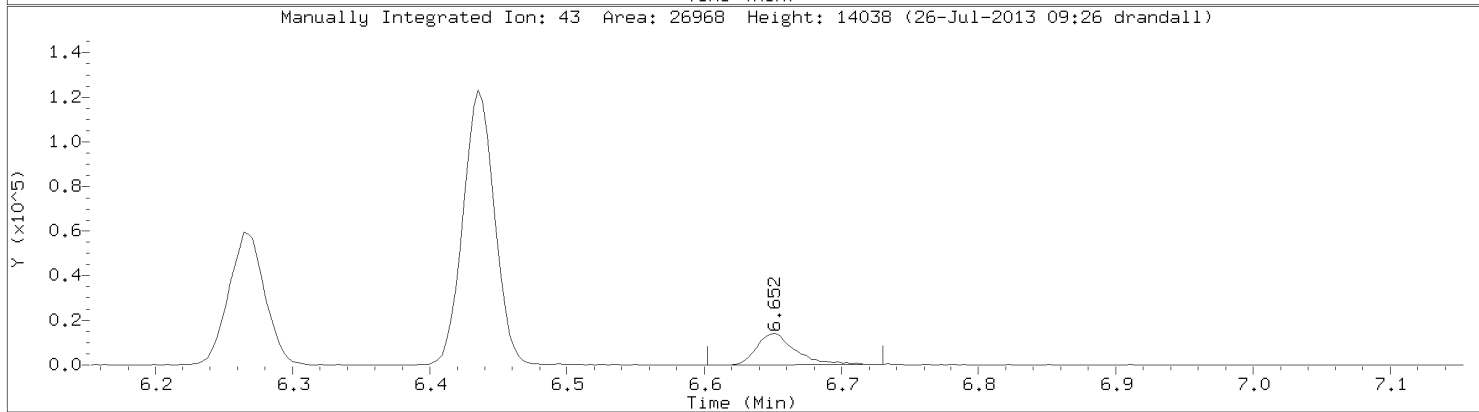
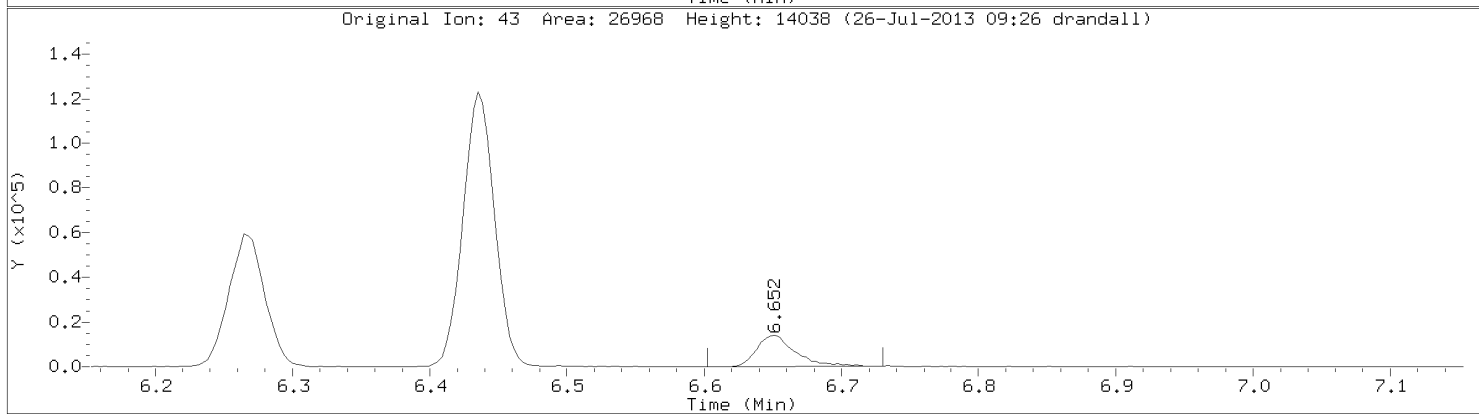
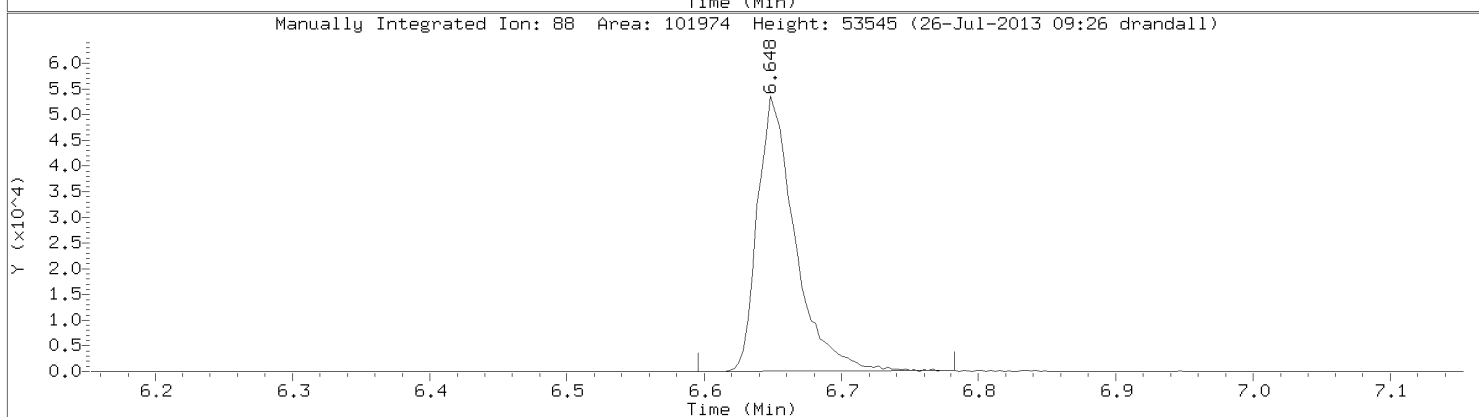
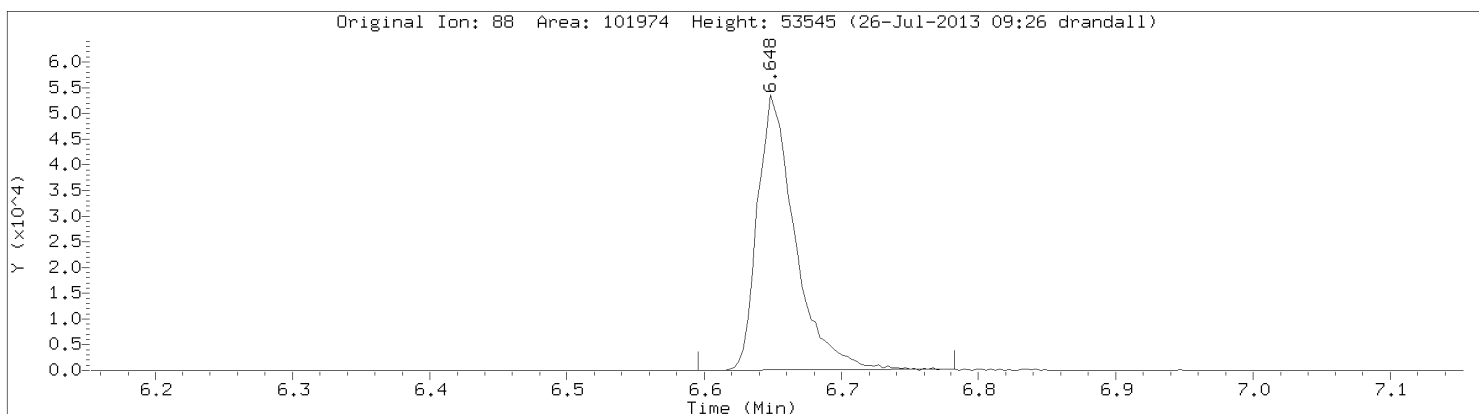


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Lab Sample ID: 1487047



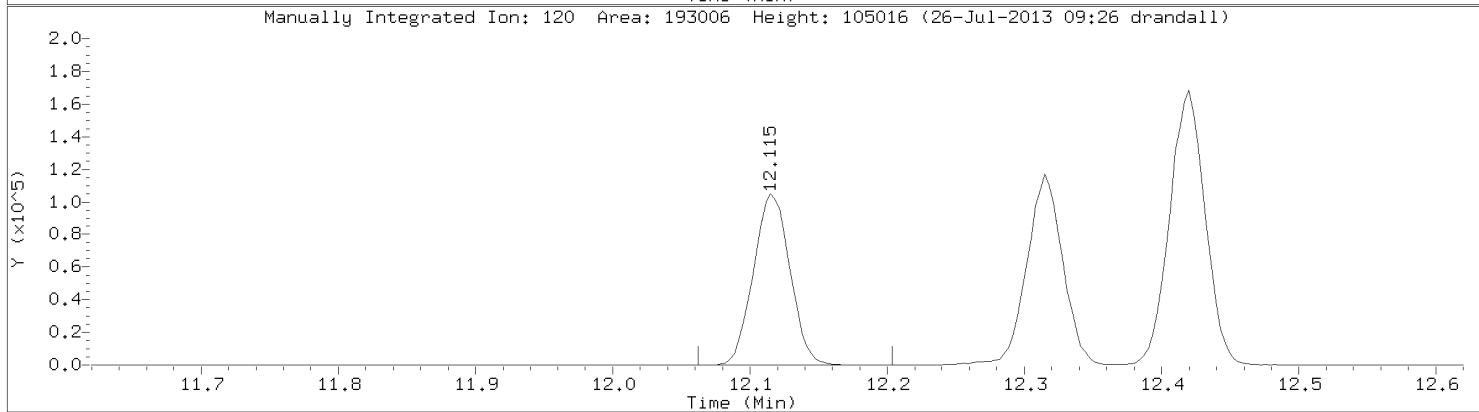
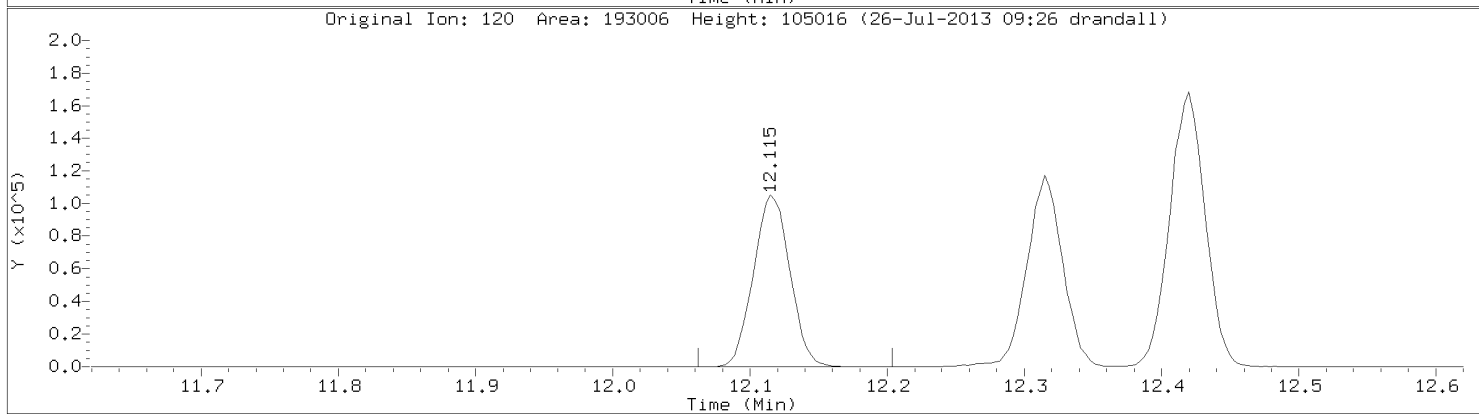
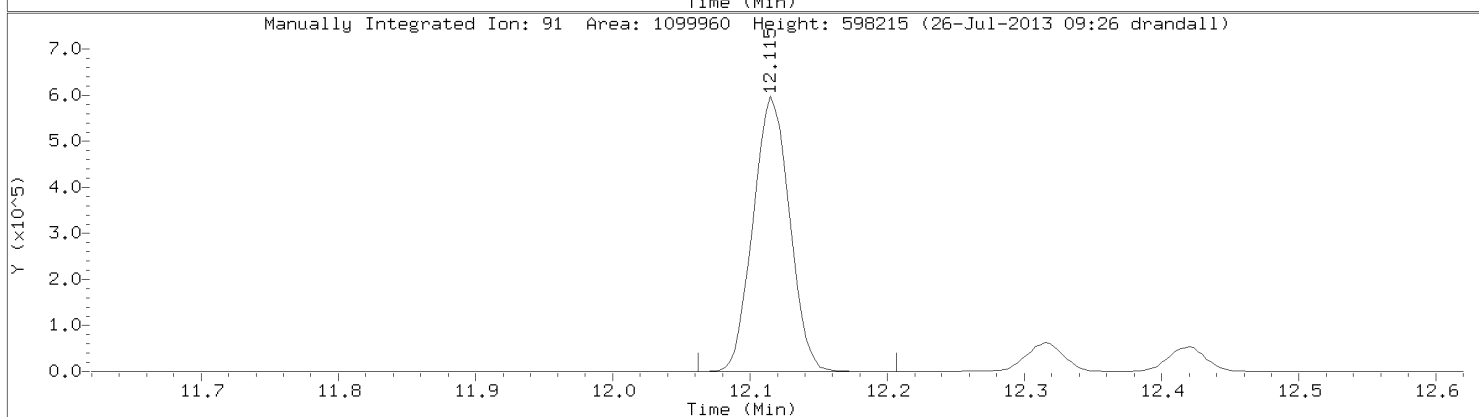
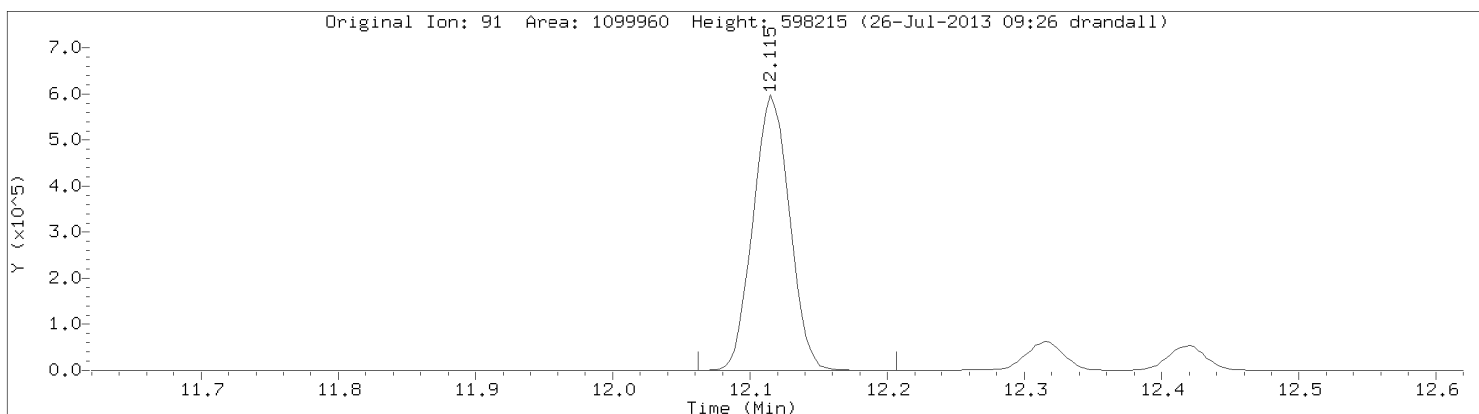
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Injection Date: 25-JUL-2013 13:08
Instrument: 10airD.i
Lab Sample ID: 1487047

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



Data File: \\192.168.10.12\chem\10airD.i\072513.b\20602L.d
Injection Date: 25-JUL-2013 13:08
Instrument: 10airD.i
Lab Sample ID: 1487047

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



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072613.b\20702L.d
 Lab Smp Id: 1488123
 Inj Date : 26-JUL-2013 11:27
 Operator : DR1 Inst ID: 10airD.i
 Smp Info :
 Misc Info : 17876
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\072613.b\TO15_205-13.m
 Meth Date : 26-Jul-2013 11:48 drandall Quant Type: ISTD
 Cal Date : 24-JUL-2013 16:39 Cal File: 20509.d
 Als bottle: 2 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10AIRPC4

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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
1 Propylene	41		2.982	2.982	(0.490)	79046	9.68302	9.68
2 Dichlorodifluoromethane	85		3.008	3.008	(0.494)	711305	8.98669	8.99
3 Dichlorotetrafluoroethane	85		3.103	3.107	(0.510)	568543	8.93917	8.94
4 Chloromethane	50		3.106	3.107	(0.510)	162697	9.00304	9.00
5 Vinyl chloride	62		3.191	3.195	(0.524)	162130	8.99736	9.00
6 1,3-Butadiene	54		3.234	3.238	(0.531)	101476	9.54067	9.54
7 Bromomethane	94		3.388	3.392	(0.556)	196168	8.64422	8.64
8 Chloroethane	64		3.444	3.448	(0.566)	83730	9.08429	9.08 (M)
9 Ethanol	31		3.500	3.494	(0.575)	92692	9.82988	9.83
10 Vinyl Bromide	106		3.582	3.585	(0.588)	203995	9.09094	9.09
11 Acrolein	56		3.683	3.684	(0.605)	56514	9.23601	9.24
12 Trichlorofluoromethane	101		3.693	3.694	(0.606)	754524	8.76341	8.76
13 Acetone	43		3.729	3.726	(0.612)	356898	8.26946	8.27
14 Isopropyl Alcohol	45		3.749	3.756	(0.616)	267026	9.43328	9.43
15 1,1-Dichloroethene	61		3.978	3.979	(0.653)	348349	9.09750	9.10
16 Acrylonitrile	53		3.985	3.985	(0.654)	116574	9.14851	9.15
17 Tert Butyl Alcohol	59		3.982	3.989	(0.654)	422115	9.32281	9.32 (M)
18 Freon 113	101		4.031	4.030	(0.662)	508538	8.85056	8.85
19 Methylene chloride	49		4.090	4.094	(0.672)	212477	8.68943	8.69
20 Allyl Chloride	76		4.103	4.107	(0.674)	86955	9.47769	9.48
21 Carbon Disulfide	76		4.224	4.224	(0.694)	608475	8.55119	8.55
22 trans-1,2-dichloroethene	96		4.418	4.422	(0.725)	228789	9.29995	9.30
23 Methyl Tert Butyl Ether	73		4.457	4.458	(0.732)	594181	9.78993	9.79 (M)

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppbv)	FINAL (ppbv)
24 Vinyl Acetate	43		4.575	4.579	(0.751)	419144	9.05537	9.06 (M)	
25 1,1-Dichloroethane	63		4.579	4.582	(0.752)	399643	9.35503	9.36	
\$ 26 Hexane-d14 (S)	66		4.697	4.700	(0.771)	272991	8.68375	8.68	
27 Methyl Ethyl Ketone	72		4.775	4.779	(0.784)	100371	10.0451	10.0	
28 n-Hexane	57		4.815	4.818	(0.791)	262673	9.19137	9.19 (M)	
29 cis-1,2-Dichloroethene	96		4.972	4.979	(0.816)	218030	9.68457	9.68	
30 Ethyl Acetate	43		4.995	4.999	(0.820)	313231	9.59157	9.59 (M)	
31 Chloroform	83		5.116	5.120	(0.840)	530708	9.97628	9.98	
32 Tetrahydrofuran	42		5.310	5.310	(0.872)	128569	10.0065	10.0	
33 1,1,1-Trichloroethane	97		5.595	5.599	(0.919)	582693	10.2167	10.2	
34 1,2-Dichloroethane	62		5.612	5.619	(0.921)	395894	10.0216	10.0	
35 Benzene	78		5.884	5.887	(0.966)	554905	9.50220	9.50	
36 Carbon tetrachloride	117		5.903	5.907	(0.969)	617383	10.0798	10.1	
37 Cyclohexane	56		5.907	5.910	(0.970)	207885	9.42726	9.43	
* 38 1,4-Difluorobenzene	114		6.090	6.094	(1.000)	651013	10.0000		
39 2,2,4-Trimethylpentane	57		6.267	6.271	(1.029)	645568	9.54097	9.54	
40 Heptane	43		6.435	6.442	(1.057)	209930	9.50538	9.50	
41 1,2-Dichloropropane	63		6.503	6.514	(1.068)	170187	9.59806	9.60 (M)	
42 Trichloroethene	130		6.530	6.533	(1.072)	228163	9.54760	9.55	
43 1,4-Dioxane	88		6.651	6.652	(1.092)	103706	9.93338	9.93 (M)	
44 Bromodichloromethane	83		6.651	6.655	(1.092)	586320	9.75224	9.75	
45 Methyl Isobutyl Ketone	43		7.222	7.229	(1.186)	306158	9.58659	9.59	
46 cis-1,3-Dichloropropene	75		7.281	7.281	(1.195)	322357	9.74254	9.74	
47 trans-1,3-Dichloropropene	75		7.769	7.773	(1.276)	366673	9.67640	9.68	
\$ 48 Toluene-d8 (S)	98		7.845	7.848	(1.288)	447804	9.84910	9.85	
49 Toluene	91		7.937	7.940	(1.303)	713422	9.35999	9.36	
50 1,1,2-Trichloroethane	97		7.943	7.950	(1.304)	245874	9.29503	9.30	
51 Methyl Butyl Ketone	43		8.242	8.244	(0.851)	302691	10.6535	10.6	
52 Dibromochloromethane	129		8.553	8.560	(0.883)	461303	10.7587	10.8	
53 1,2-Dibromoethane	107		8.822	8.829	(0.911)	386712	10.5584	10.6	
54 Tetrachloroethene	166		8.914	8.918	(0.920)	359355	10.4229	10.4	
* 55 Chlorobenzene - d5	117		9.688	9.691	(1.000)	224347	10.0000		
56 Chlorobenzene	112		9.737	9.741	(1.005)	477058	10.5817	10.6	
57 Ethyl Benzene	91		10.035	10.039	(1.036)	894406	10.4036	10.4	
58 m&p-Xylene	91		10.206	10.213	(1.053)	727329	10.6119	10.6	
59 Bromoform	173		10.652	10.659	(1.100)	484186	10.4398	10.4	
60 Styrene	104		10.701	10.708	(1.105)	473600	10.4639	10.5	
61 o-Xylene	91		10.776	10.783	(1.112)	754445	10.5711	10.6	
62 1,1,2,2-Tetrachloroethane	83		11.091	11.095	(1.145)	432844	10.4707	10.5	
63 Isopropylbenzene	105		11.455	11.459	(1.182)	963567	10.6568	10.6	
64 N-Propylbenzene	91		12.114	12.121	(1.250)	1146838	10.6050	10.6 (M)	
65 4-Ethyltoluene	105		12.314	12.321	(1.271)	899590	10.7030	10.7	
66 1,3,5-Trimethylbenzene	105		12.419	12.426	(1.282)	783331	10.5870	10.6	
67 1,2,4-Trimethylbenzene	105		13.016	13.020	(1.344)	754766	10.6398	10.6	
68 1,3-Dichlorobenzene	146		13.370	13.374	(1.380)	459211	10.5247	10.5	
69 Sec- Butylbenzene	105		13.397	13.404	(1.383)	1041140	10.5370	10.5	
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.452	13.459	(1.389)	96352	10.6400	10.6	
71 Benzyl Chloride	91		13.475	13.486	(1.391)	623981	10.1949	10.2	
72 1,4-Dichlorobenzene	146		13.498	13.509	(1.393)	440056	10.3434	10.3	
73 1,2-Dichlorobenzene	146		14.036	14.043	(1.449)	385119	10.6601	10.7	
74 N-Butylbenzene	91		14.321	14.325	(1.478)	811796	10.7110	10.7	
75 1,2,4-Trichlorobenzene	180		16.679	16.683	(1.722)	262919	11.3722	11.4	
76 Naphthalene	128		16.856	16.860	(1.740)	420239	11.7561	11.8	
77 Hexachlorobutadiene	225		17.233	17.236	(1.779)	298009	10.5996	10.6	

Data File: \\192.168.10.12\chem\10airD.i\072613.b\20702L.d
Report Date: 29-Jul-2013 09:25

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\072613.b\20702L.d
Report Date: 29-Jul-2013 09:25

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 20702L.d
Lab Smp Id: 1488123
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\072613.b\TO15_205-13.m
Misc Info: 17876

Calibration Date: 26-JUL-2013
Calibration Time: 11:27

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	651013	12.29
55 Chlorobenzene - d	221404	132842	309966	224347	1.33

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	0.00
55 Chlorobenzene - d	9.69	9.36	10.02	9.69	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\072613.b\20702L.D

Date : 26-JUL-2013 11:27

Client ID:

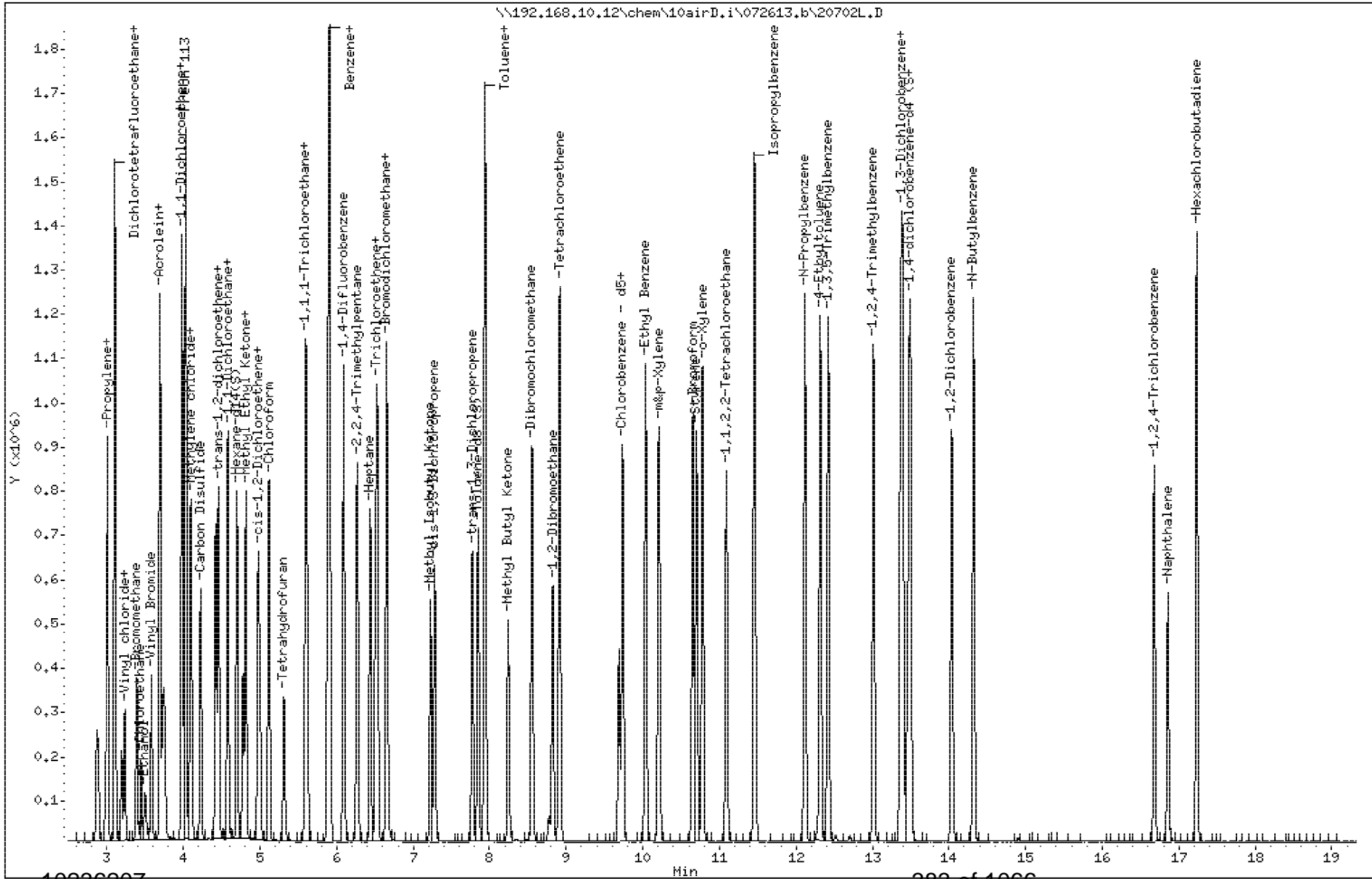
Instrument: 10airD.i

Sample Info:

Operator: DR1

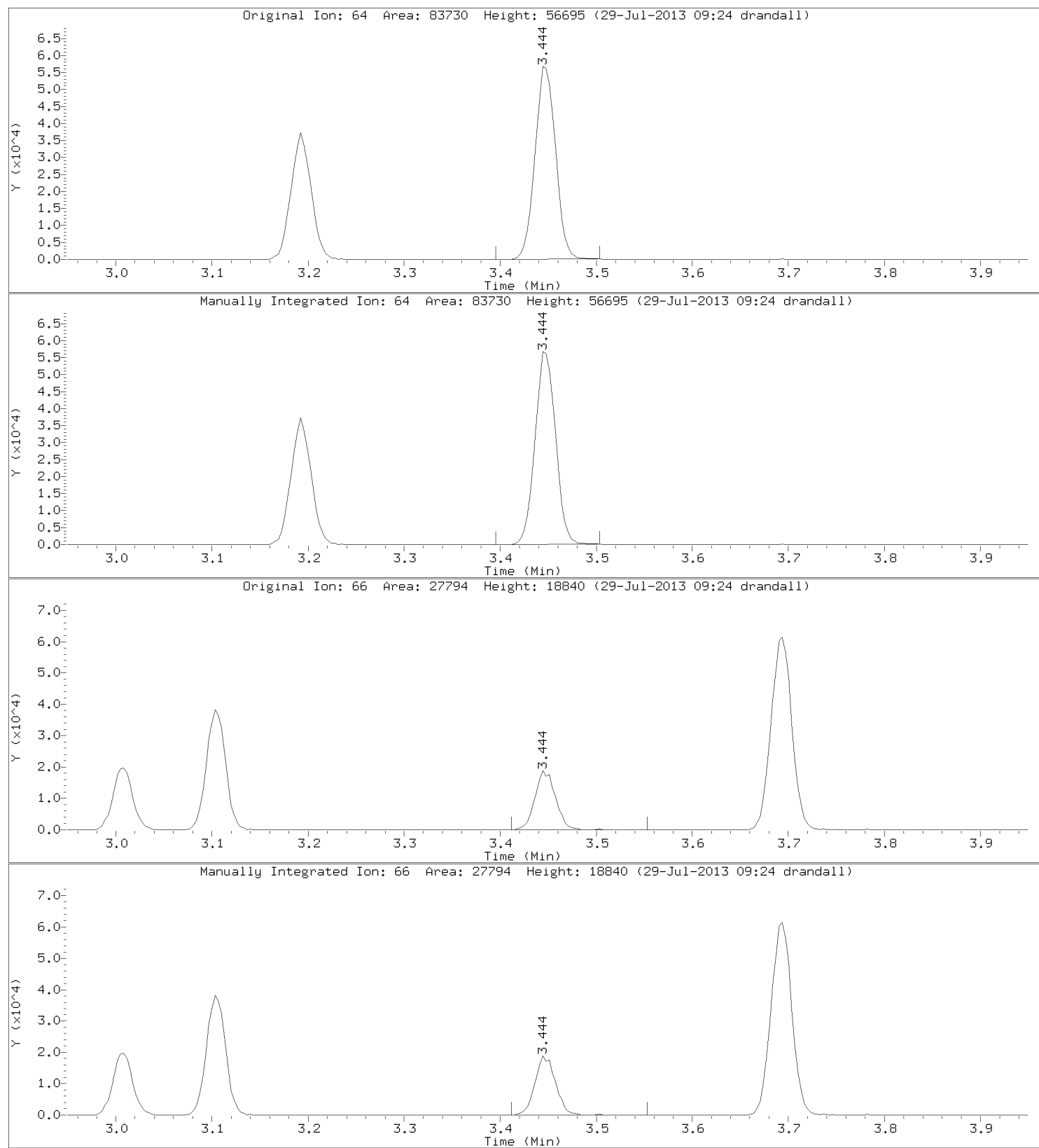
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Column diameter: 0.32



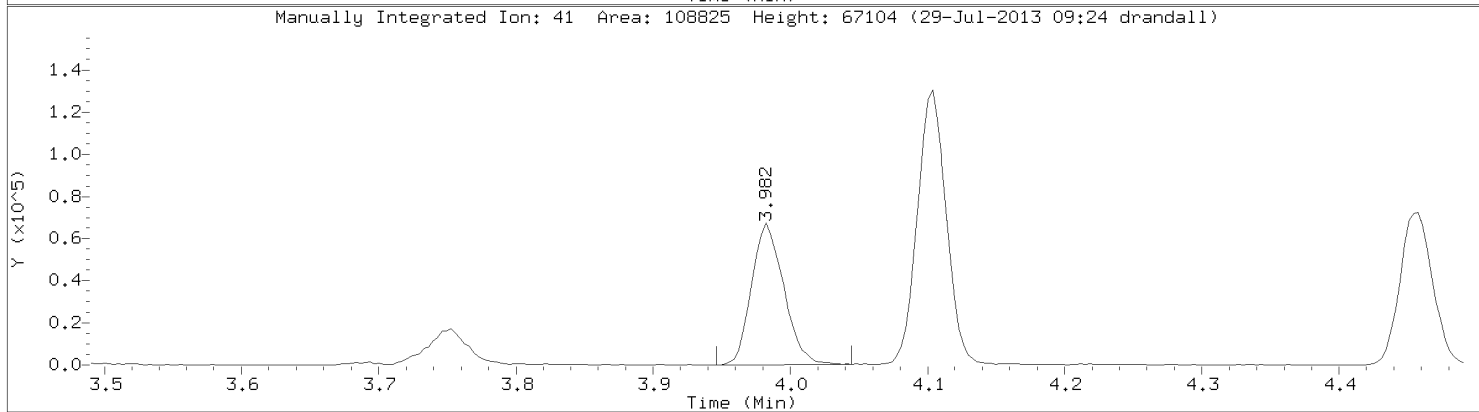
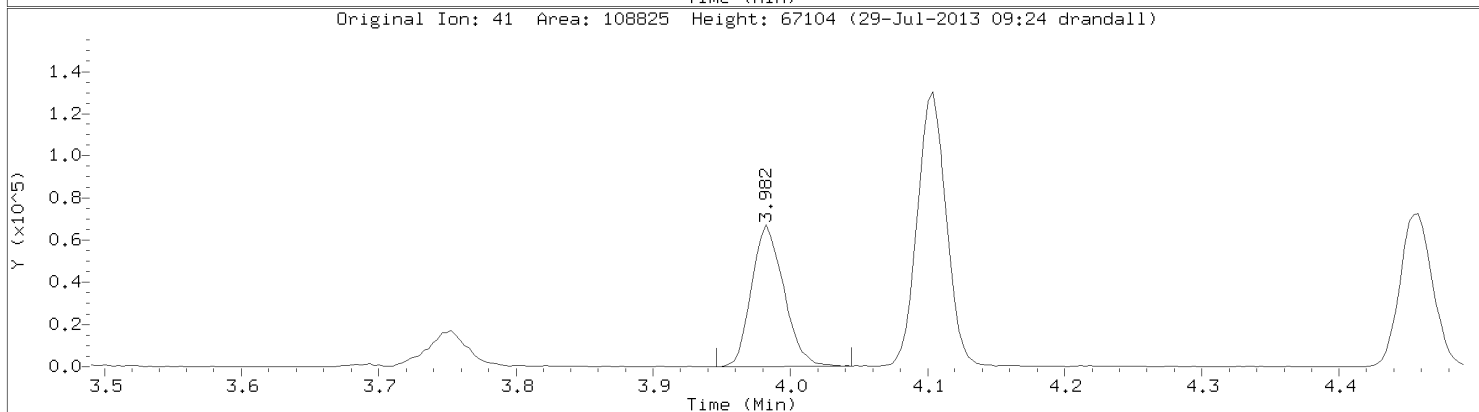
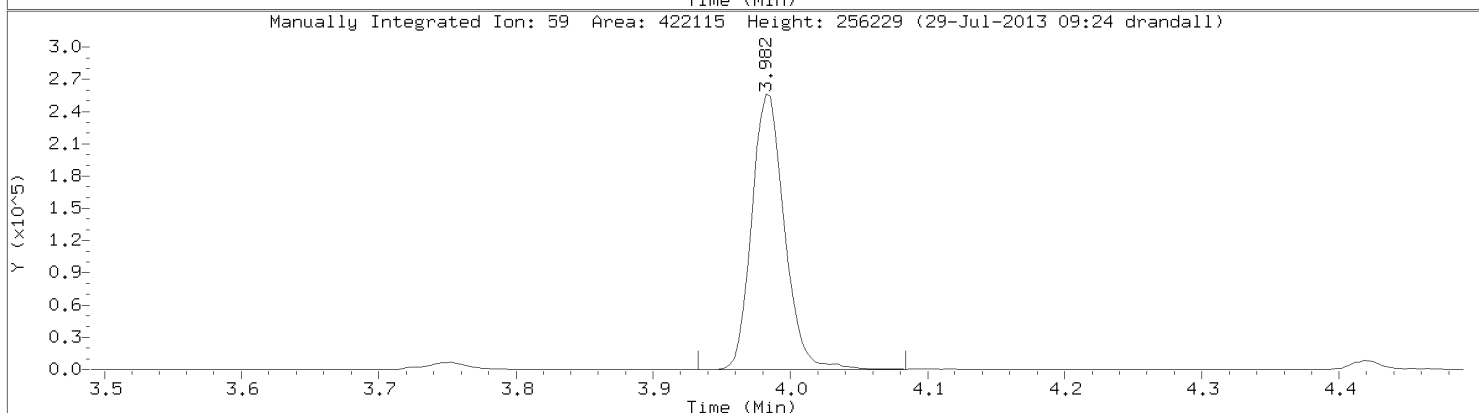
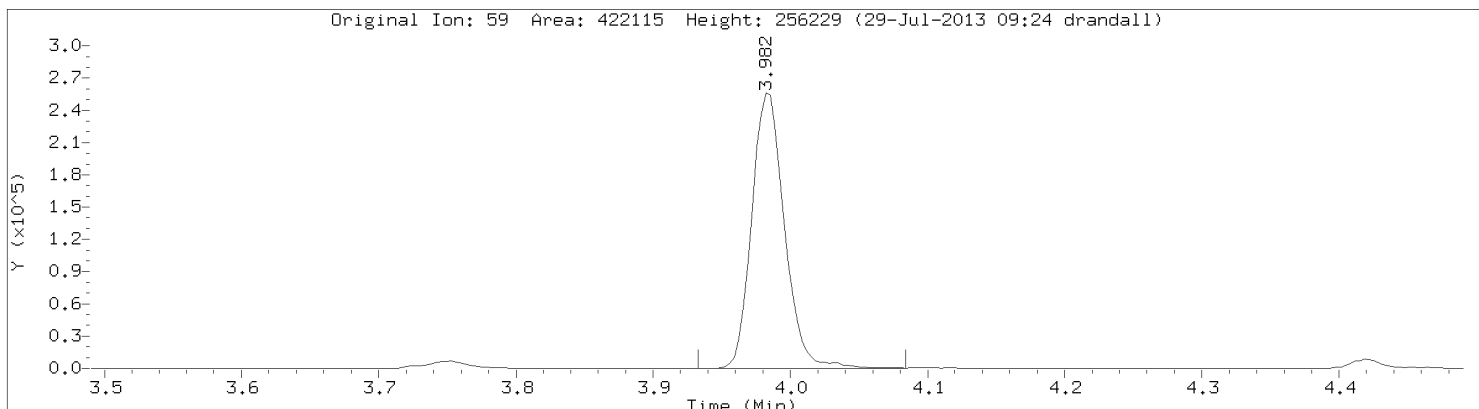
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Injection Date: 26-JUL-2013 11:27
Instrument: 10airD.i
Lab Sample ID: 1488123

Compound: Chloroethane
CAS Number: 75-00-3



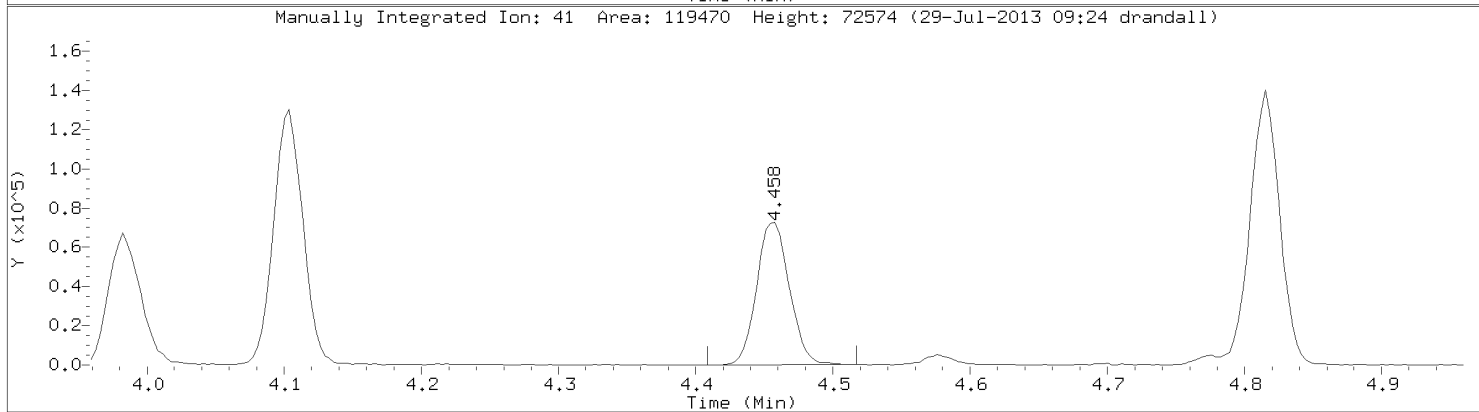
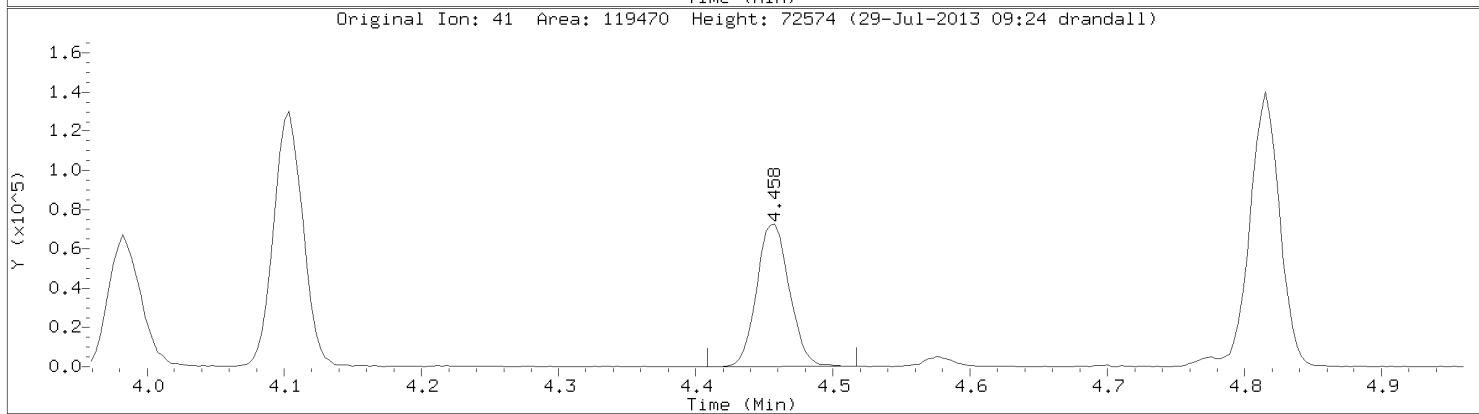
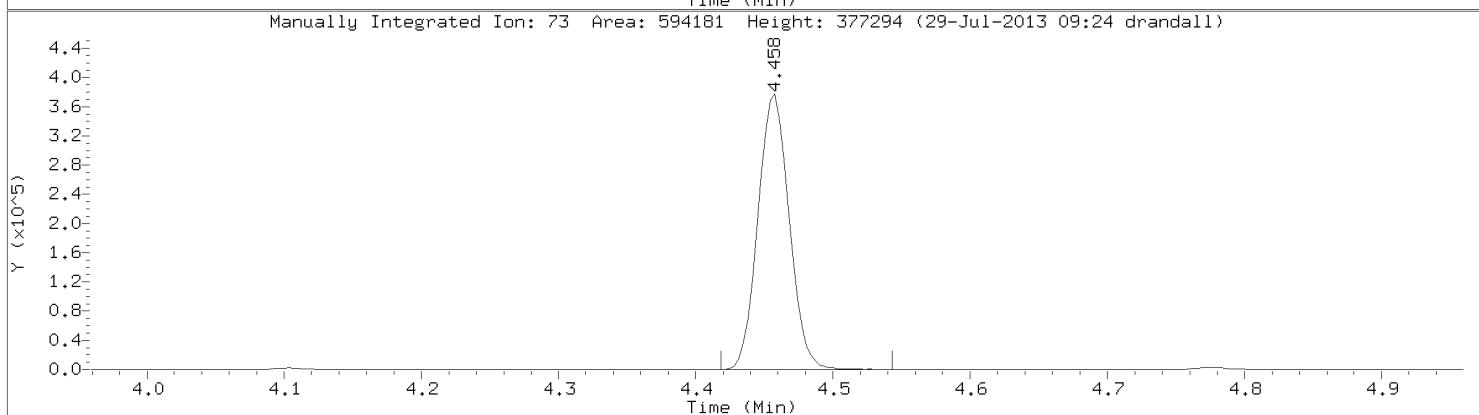
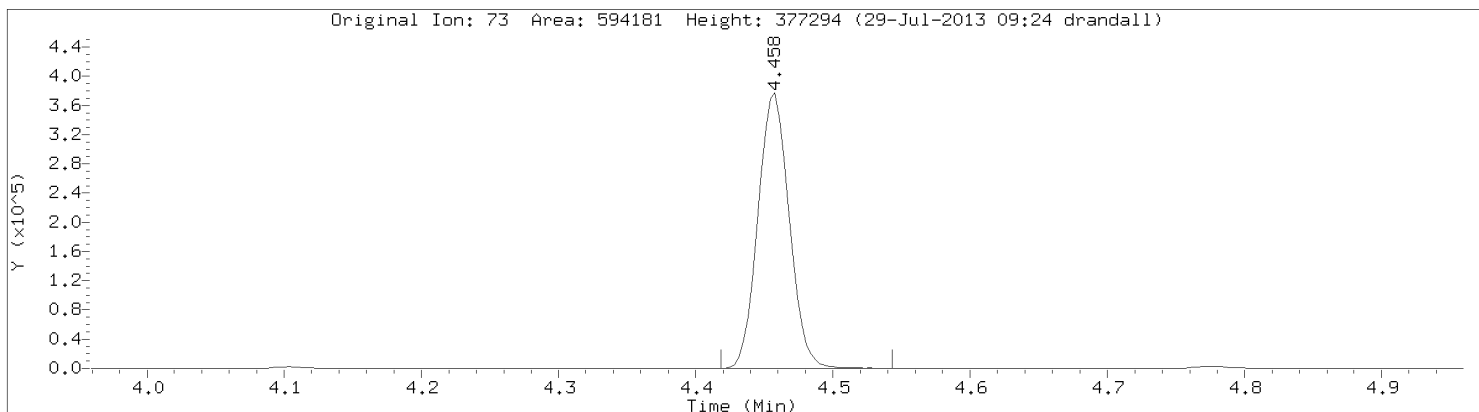
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Injection Date: 26-JUL-2013 11:27
Instrument: 10airD.i
Lab Sample ID: 1488123

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



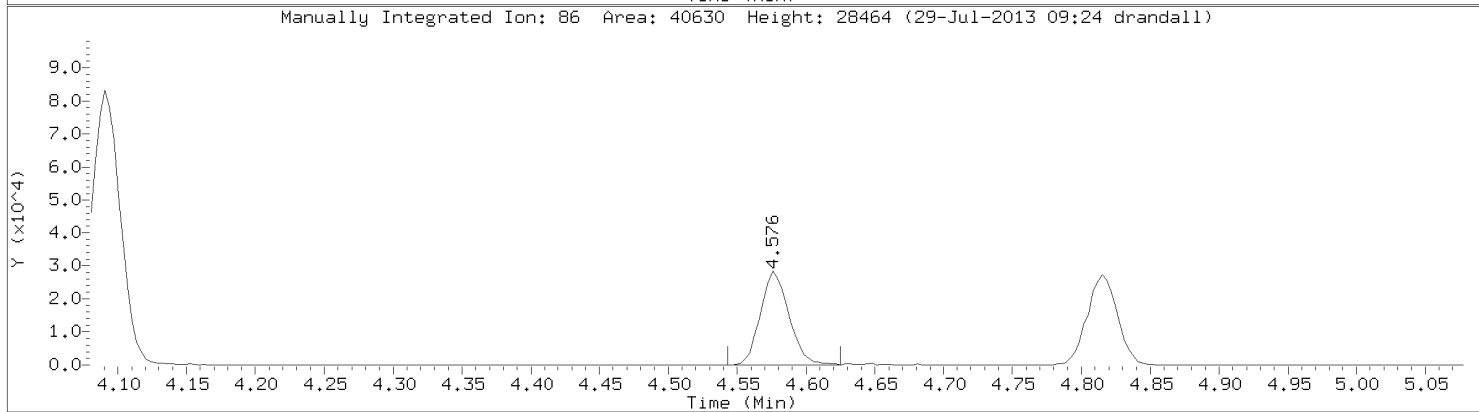
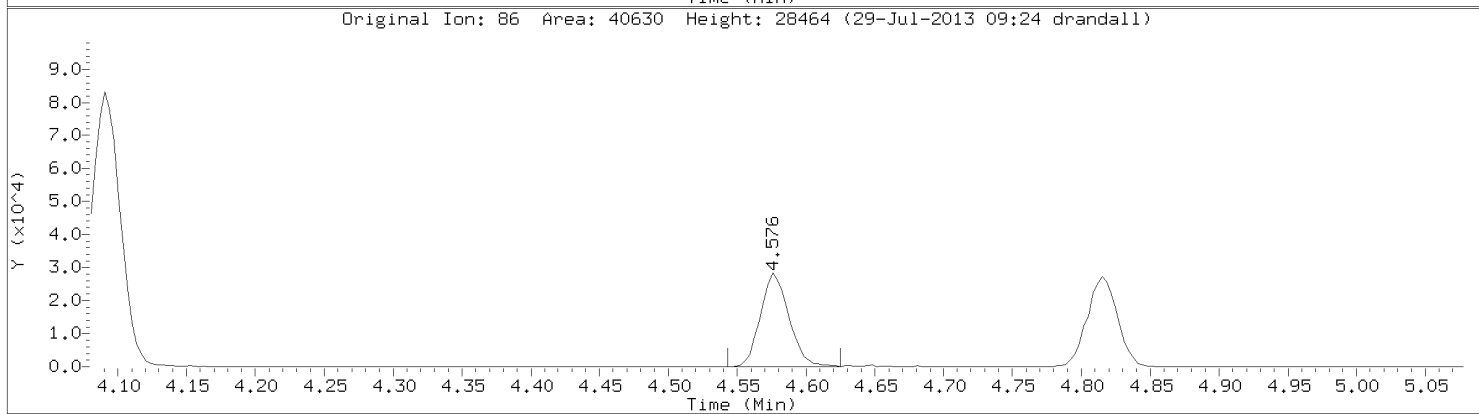
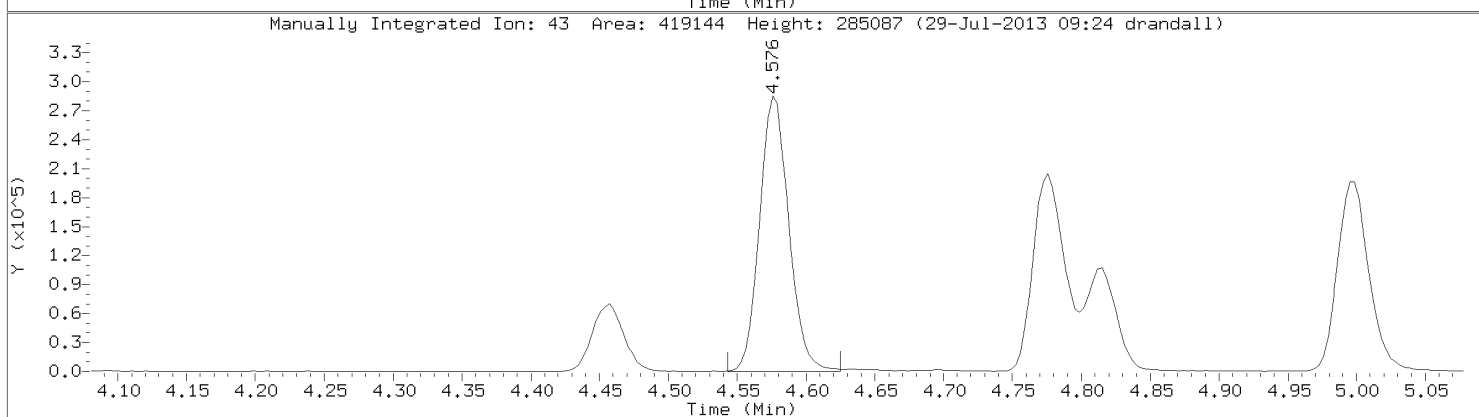
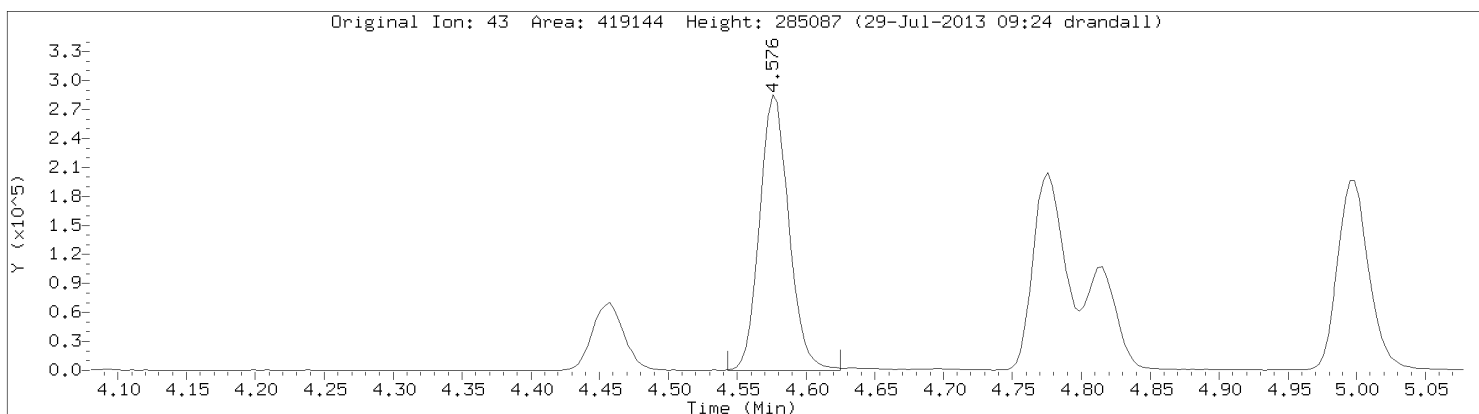
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Injection Date: 26-JUL-2013 11:27
Instrument: 10airD.i
Lab Sample ID: 1488123

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



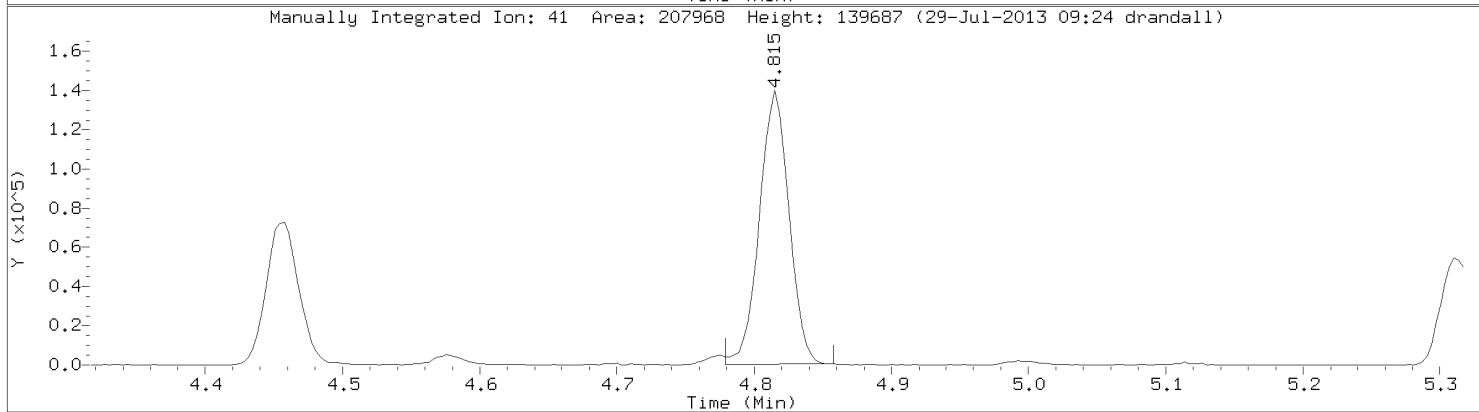
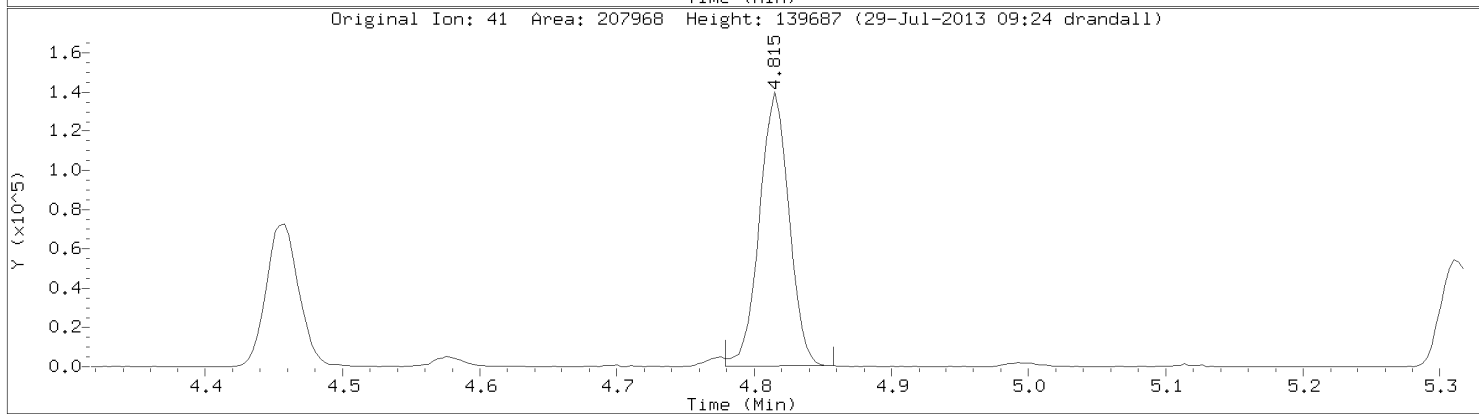
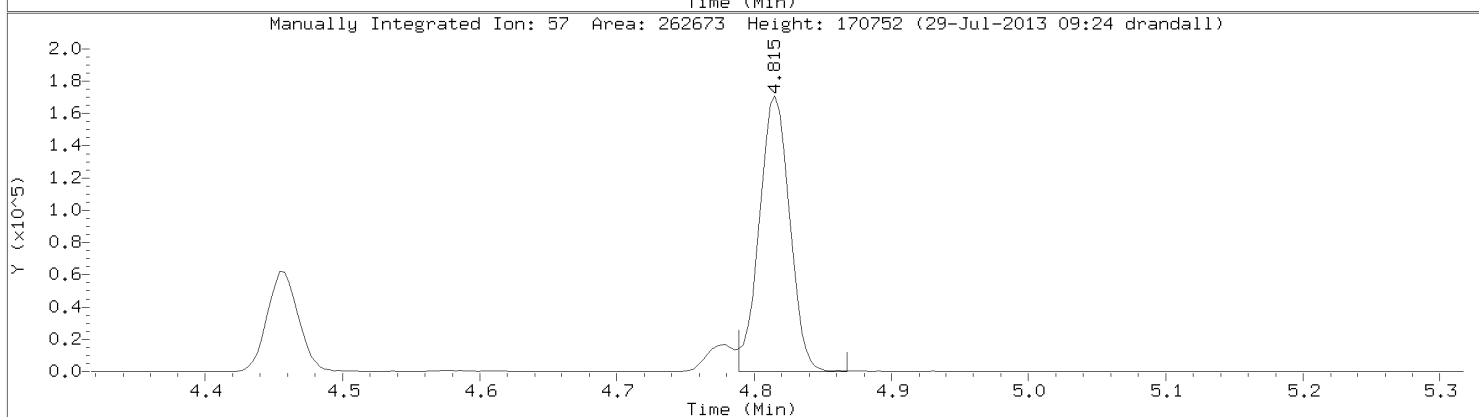
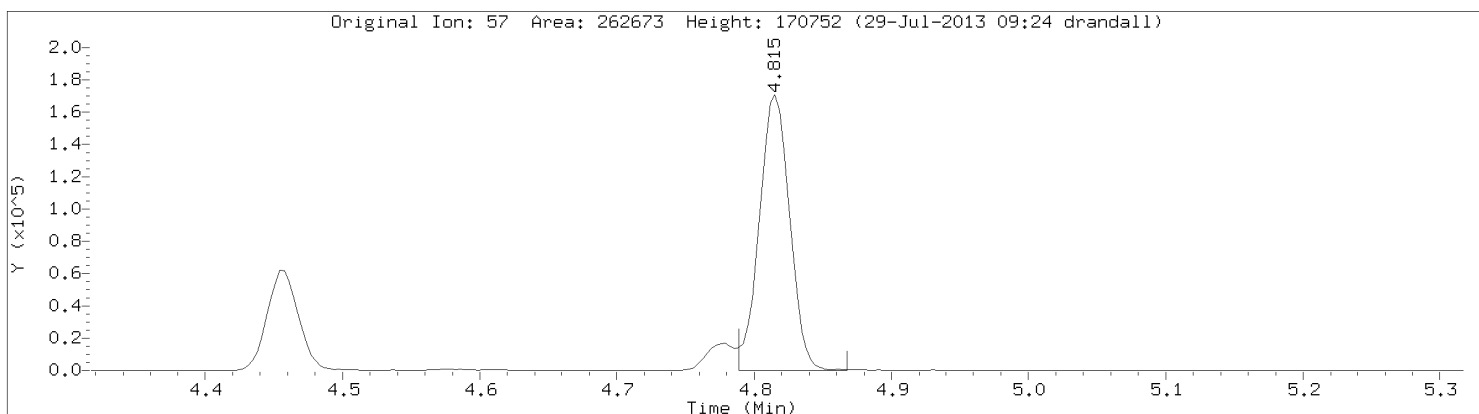
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Injection Date: 26-JUL-2013 11:27
Instrument: 10airD.i
Lab Sample ID: 1488123

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

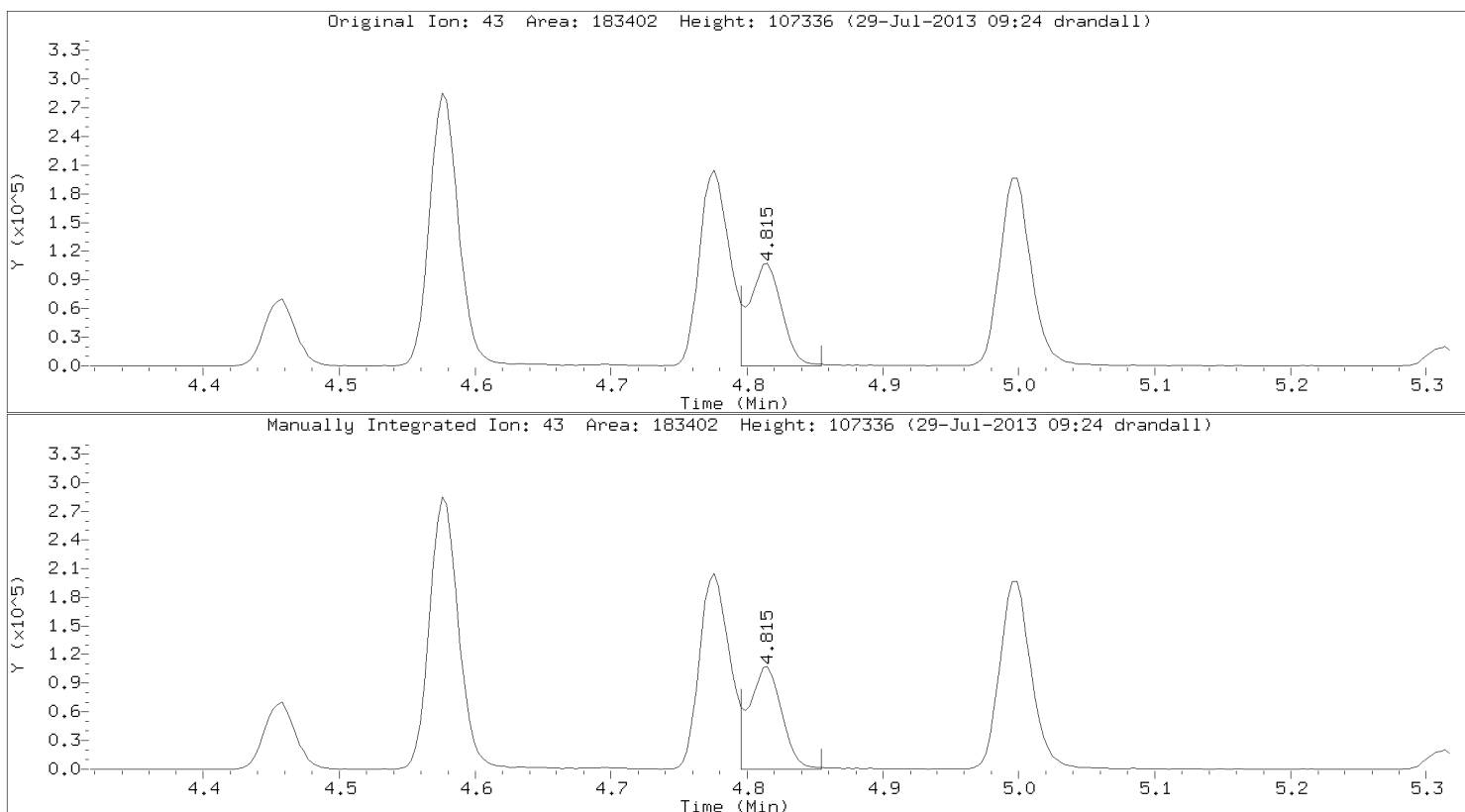


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Injection Date: 26-JUL-2013 11:27
Instrument: 10airD.i
Lab Sample ID: 1488123

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

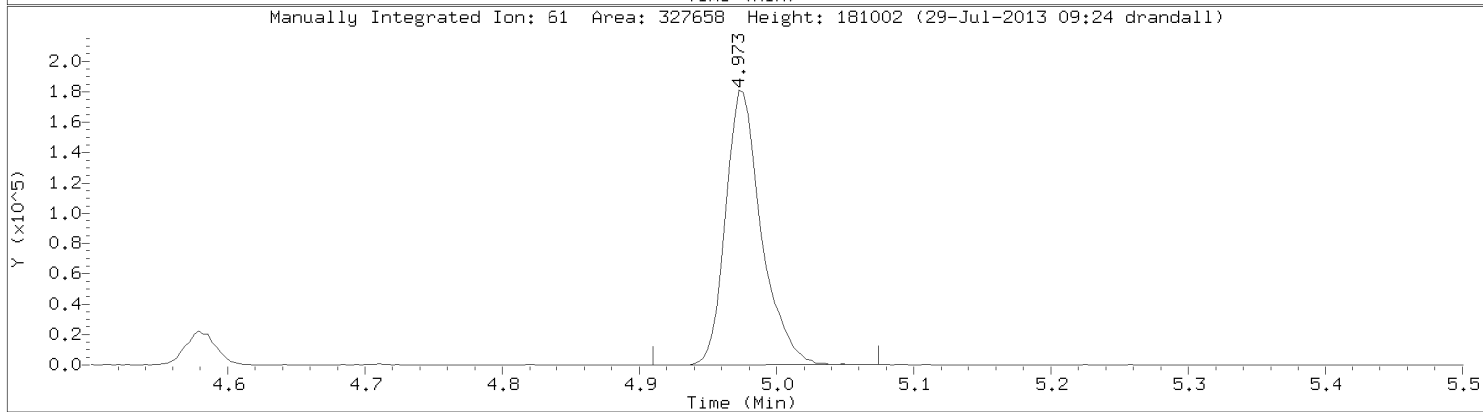
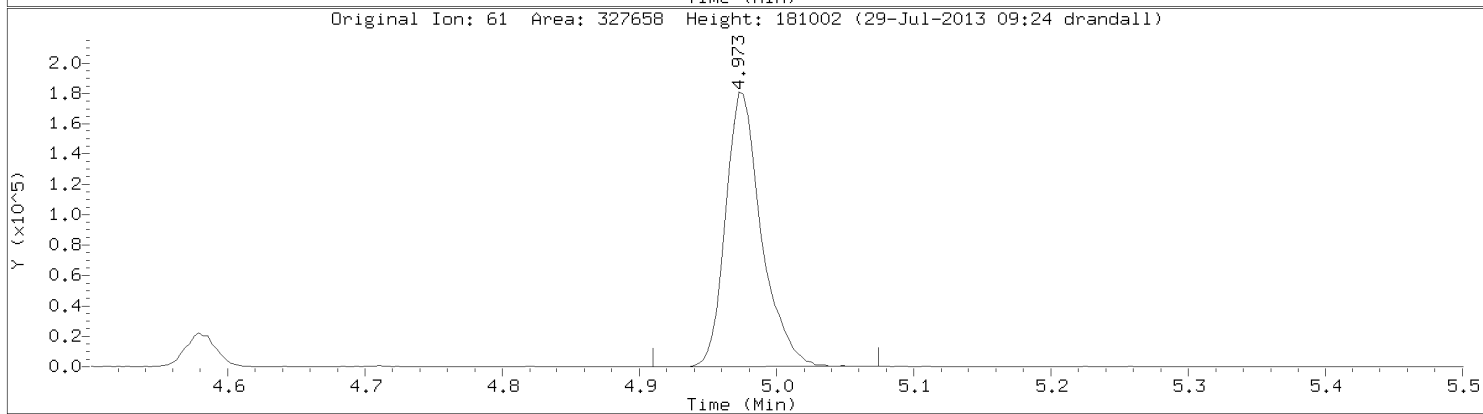
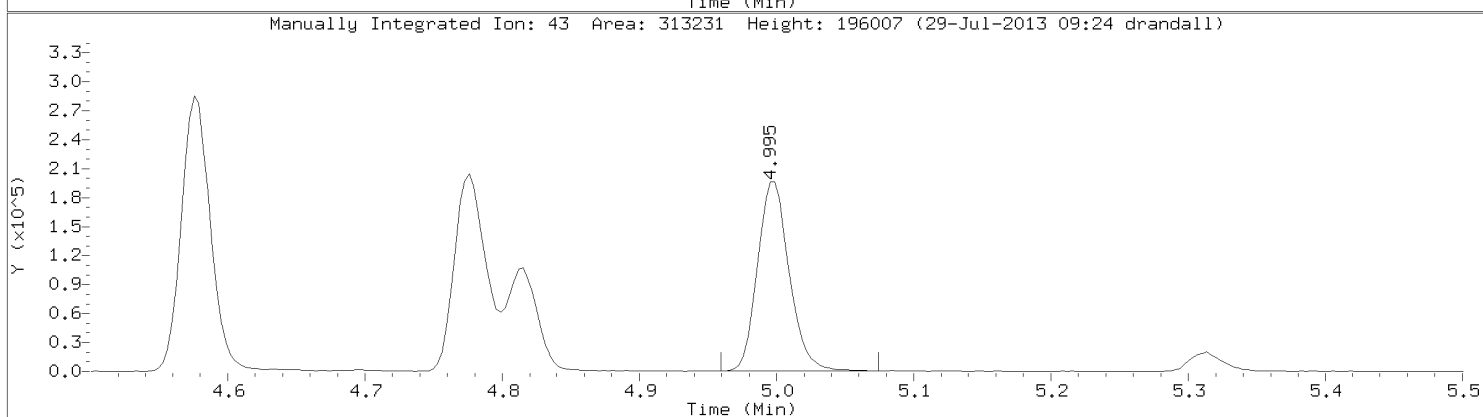
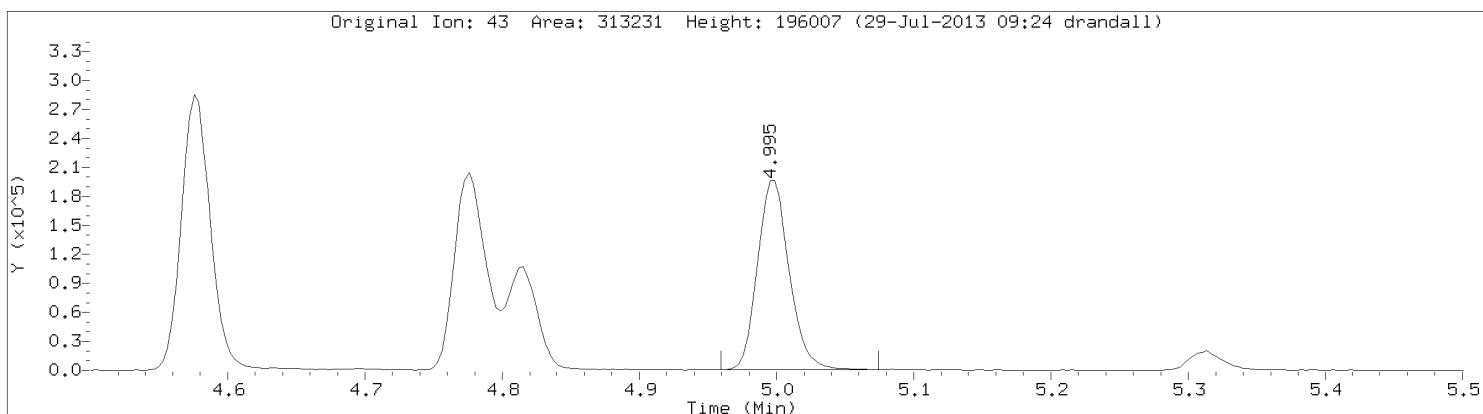


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Instrument: 10airD.i
Lab Sample ID: 1488123

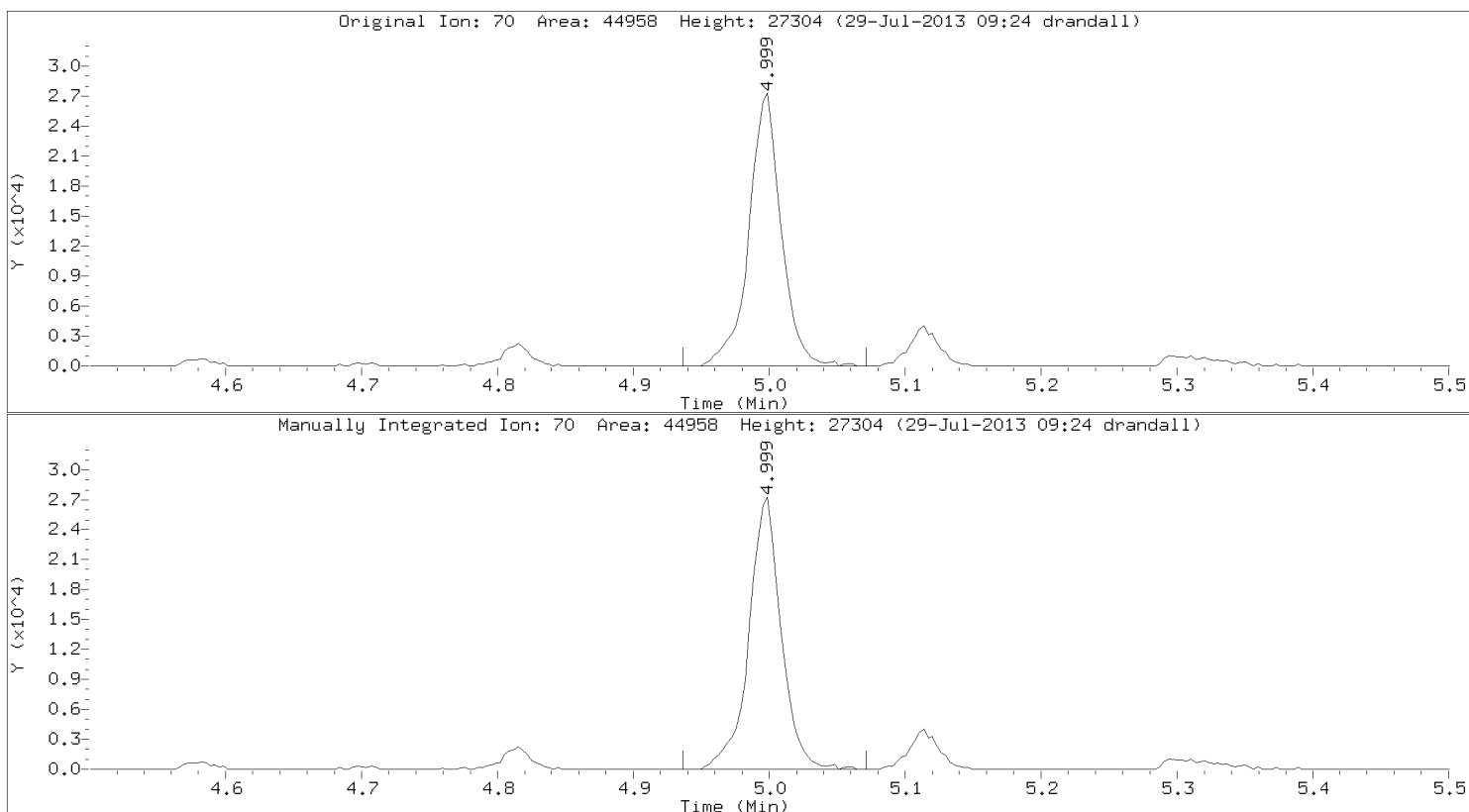


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Injection Date: 26-JUL-2013 11:27
Instrument: 10airD.i
Lab Sample ID: 1488123

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

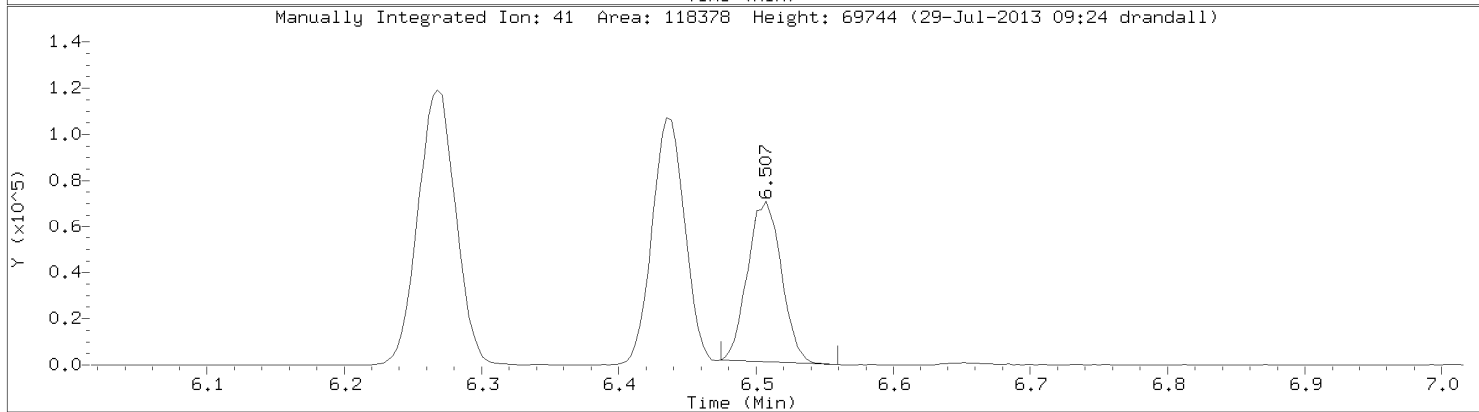
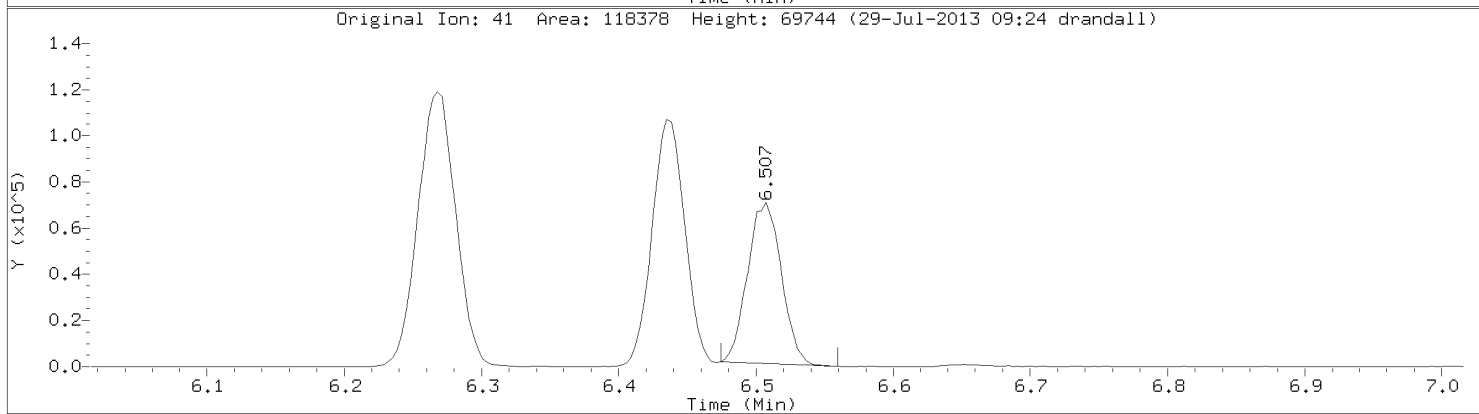
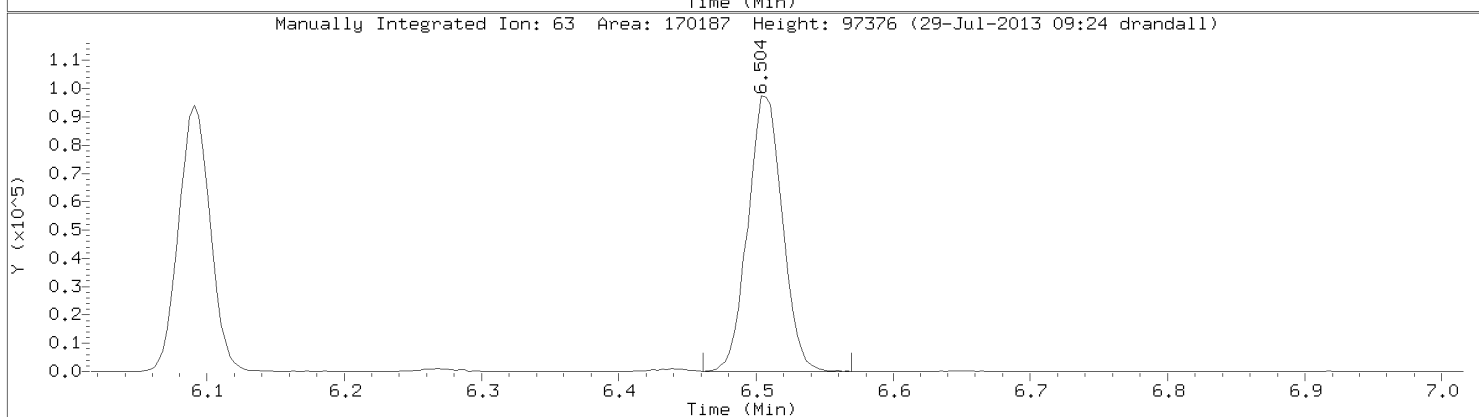
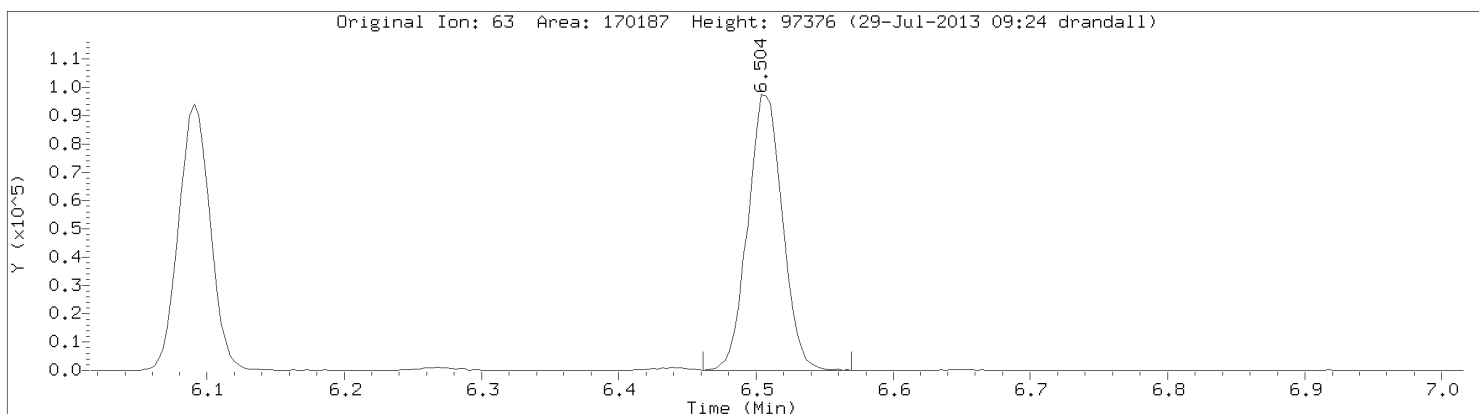


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Instrument: 10airD.i
Lab Sample ID: 1488123

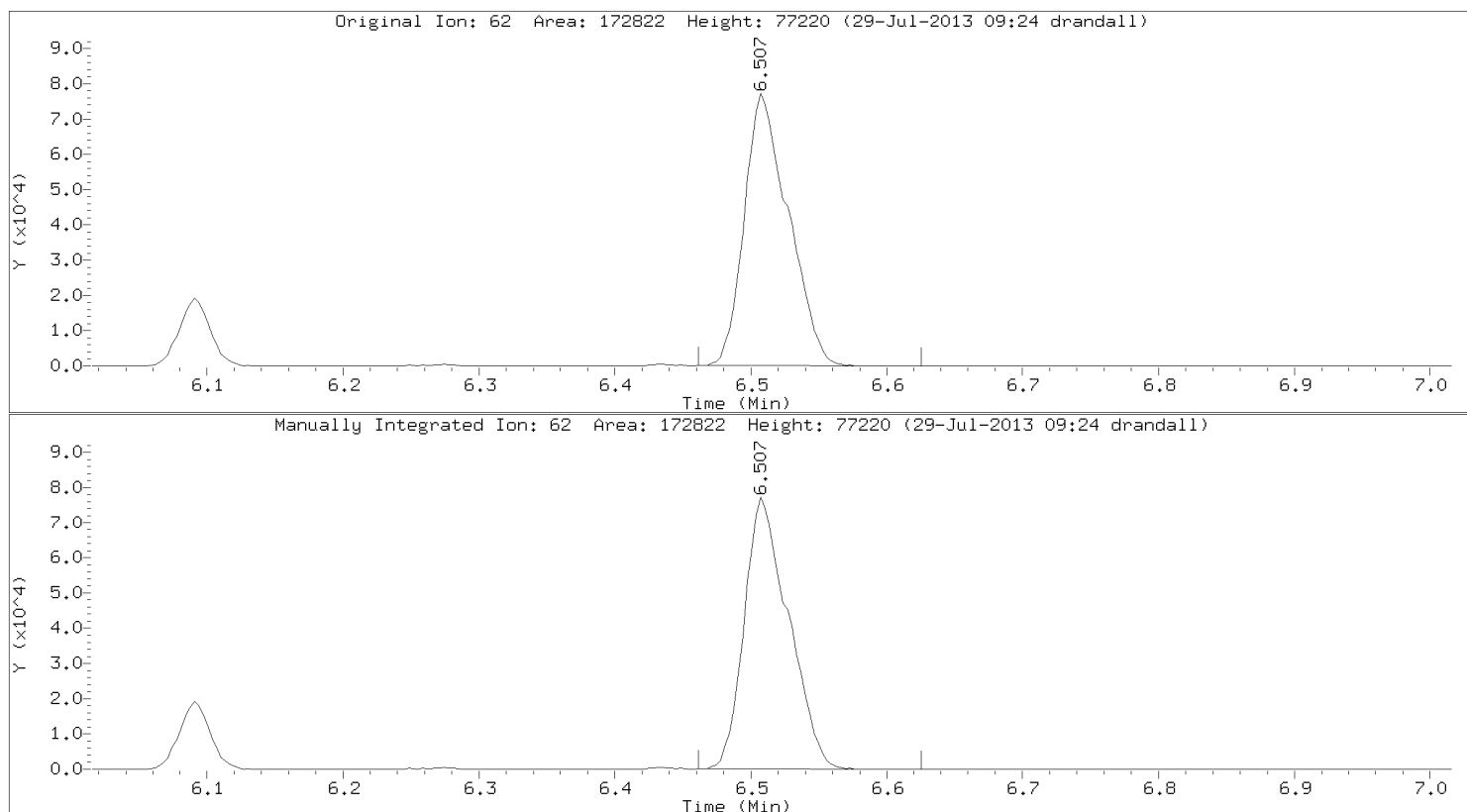


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Injection Date: 26-JUL-2013 11:27
Instrument: 10airD.i
Lab Sample ID: 1488123

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

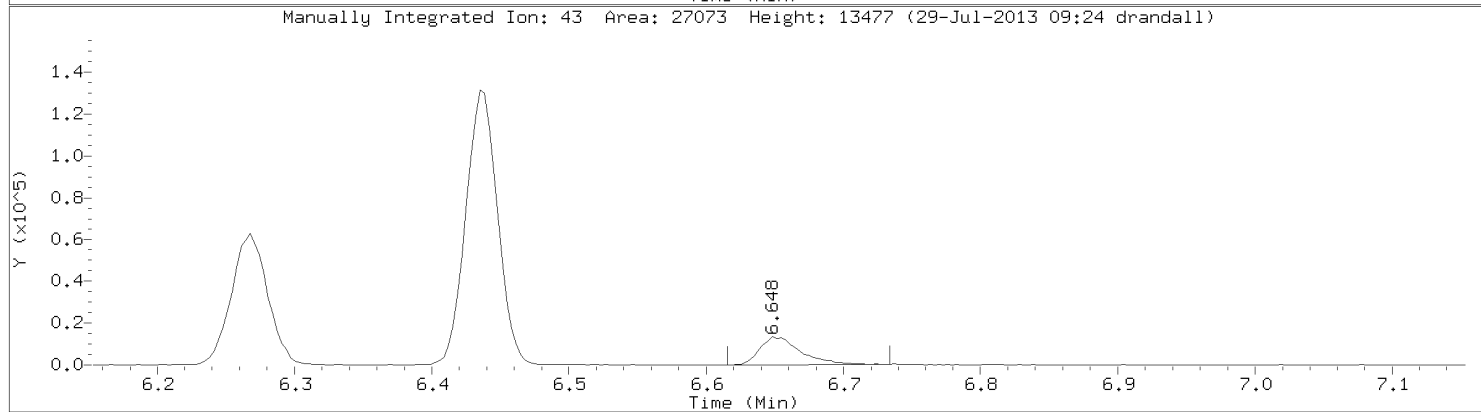
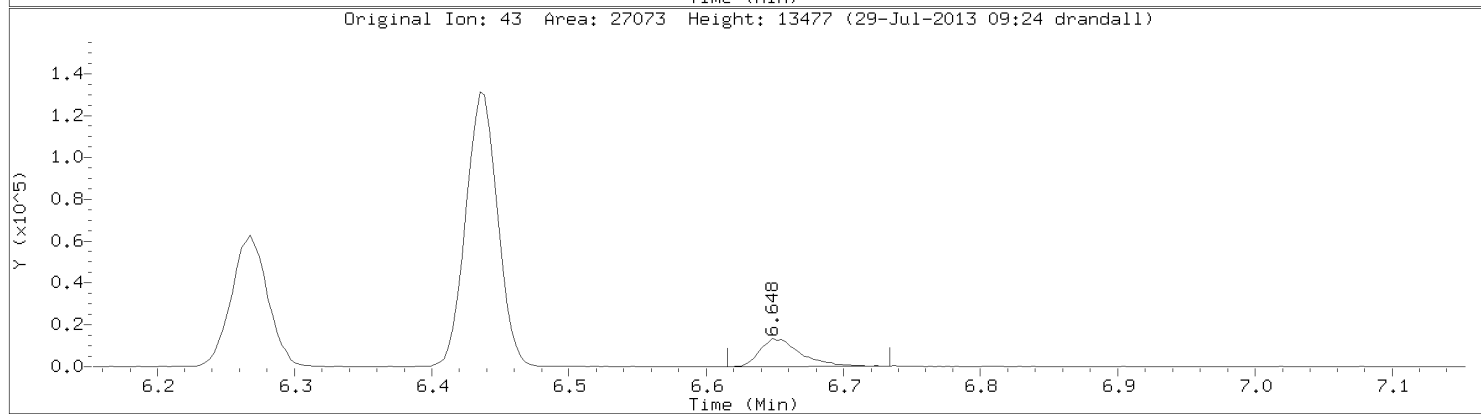
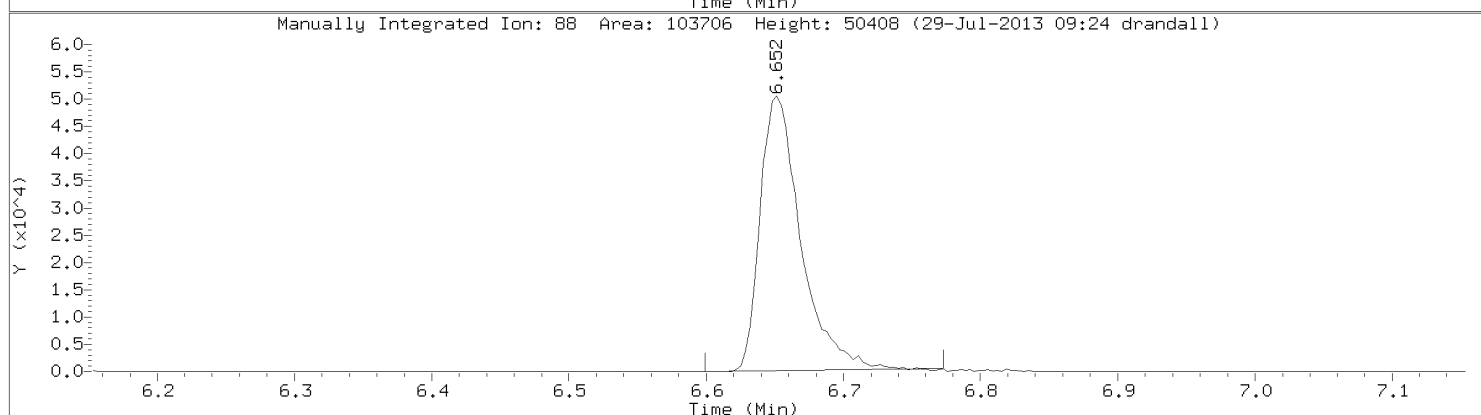
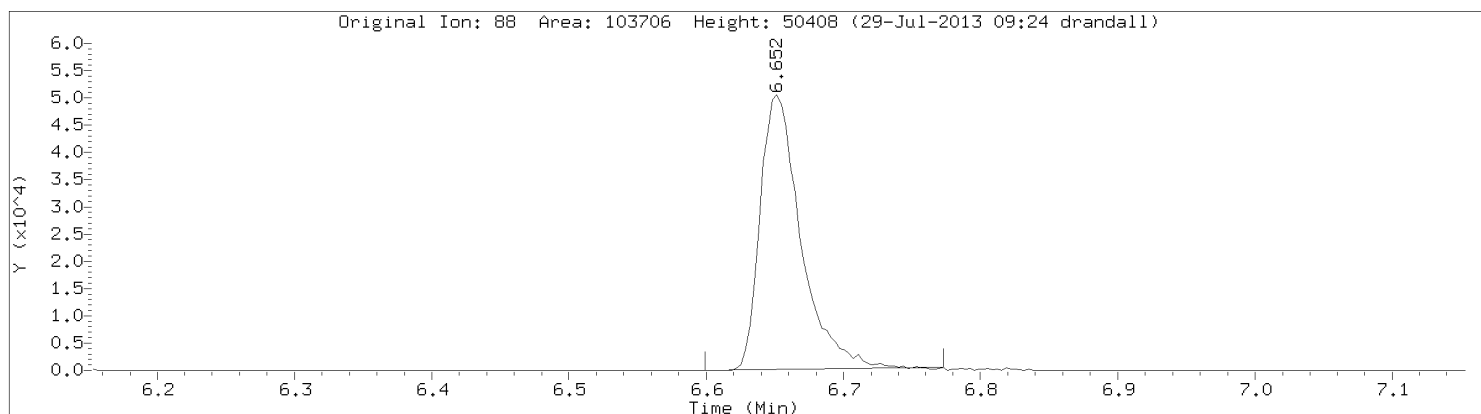


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Injection Date: 26-JUL-2013 11:27
Instrument: 10airD.i
Lab Sample ID: 1488123



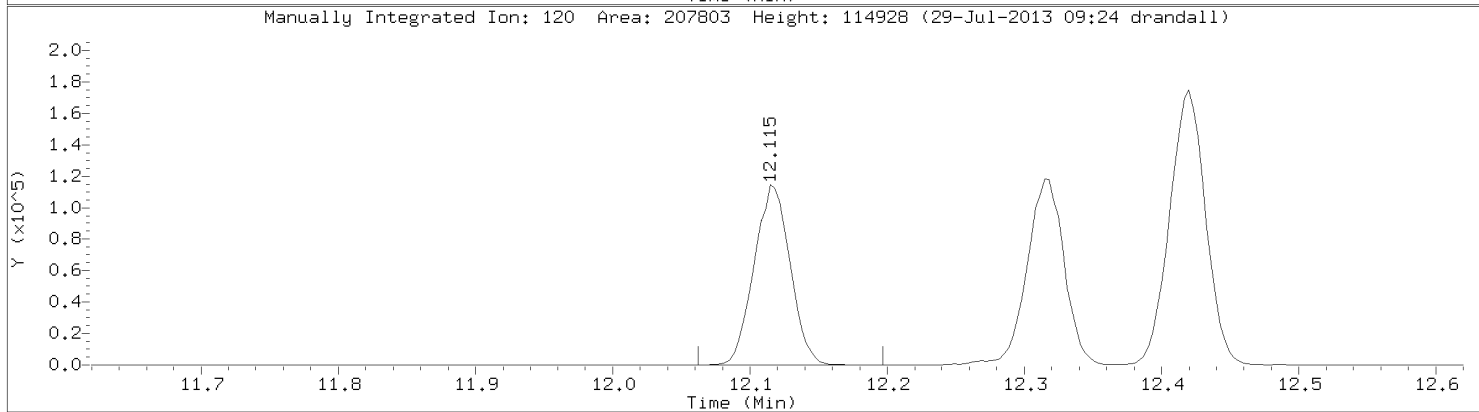
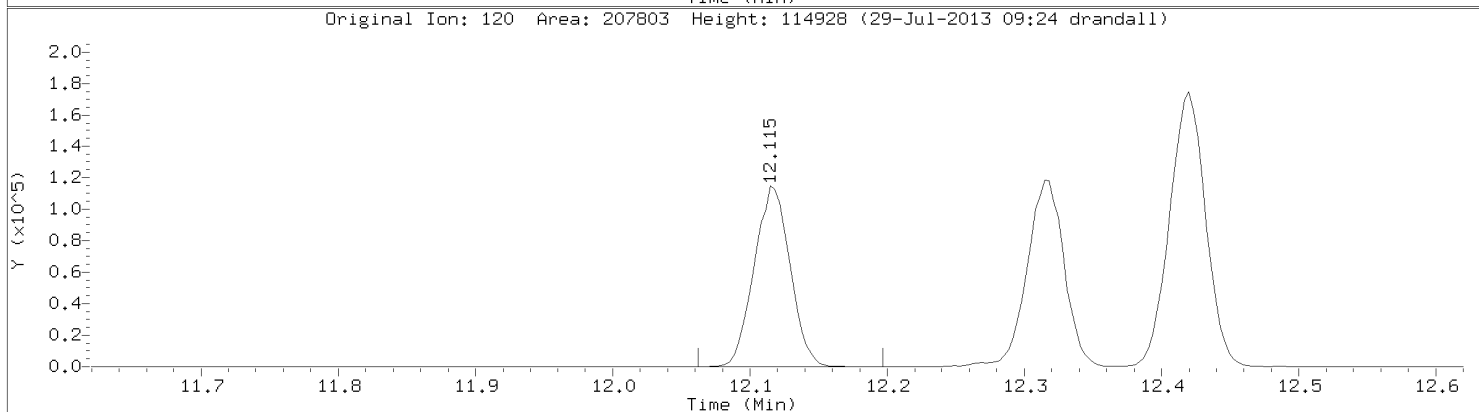
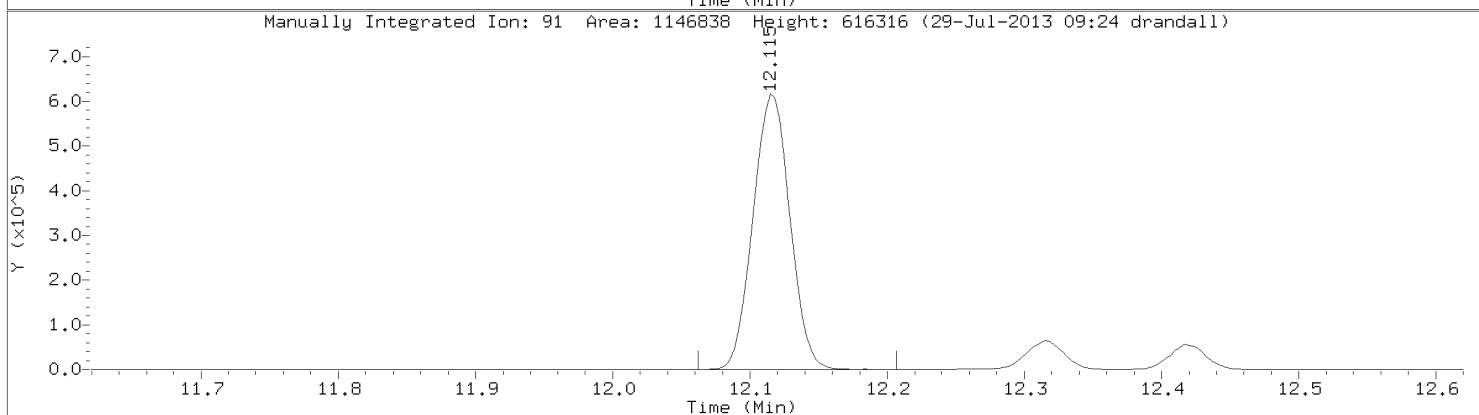
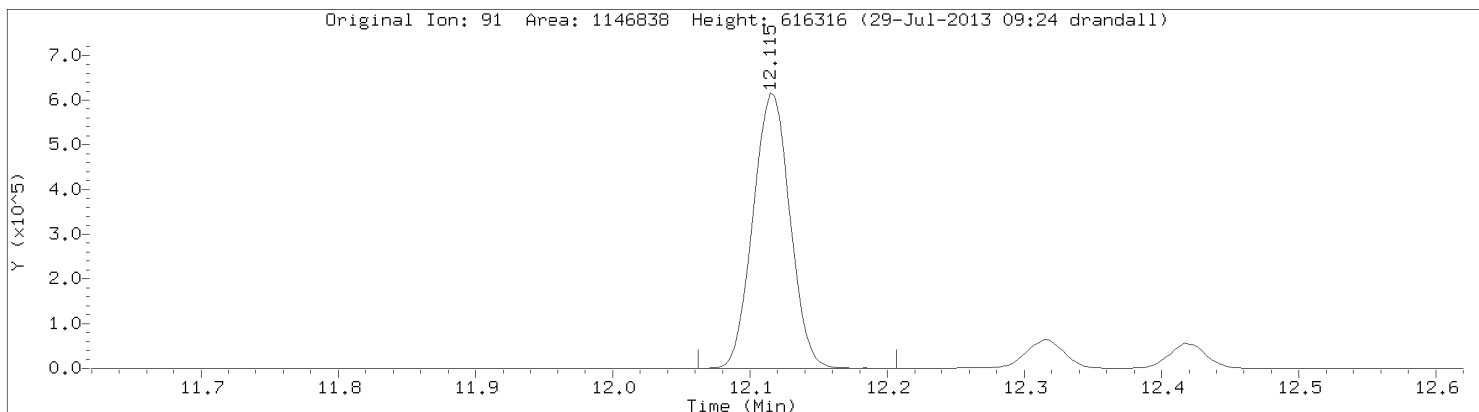
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Injection Date: 26-JUL-2013 11:27
Instrument: 10airD.i
Lab Sample ID: 1488123

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



Data File: \\192.168.10.12\chem\10airD.i\072613.b\20702L.d
Injection Date: 26-JUL-2013 11:27
Instrument: 10airD.i
Lab Sample ID: 1488123

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



Data File: \\192.168.10.12\chem\10airD.i\072613.b\20707.d
 Report Date: 29-Jul-2013 07:41

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072613.b\20707.d
 Lab Smp Id: 10236207001
 Inj Date : 26-JUL-2013 14:08
 Operator : DR1
 Smp Info :
 Misc Info : 17876
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\072613.b\TO15_205-13.m
 Meth Date : 26-Jul-2013 11:48 drandall Quant Type: ISTD
 Cal Date : 24-JUL-2013 16:39 Cal File: 20509.d
 Als bottle: 7
 Dil Factor: 1.44000
 Integrator: HP RTE
 Target Version: 4.14

Inst ID: 10airD.i

Compound Sublist: chlorinated.sub

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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
5 Vinyl chloride	62							
8 Chloroethane	64							
14 Isopropyl Alcohol	45							
15 1,1-Dichloroethene	61							
18 Freon 113	101							
22 trans-1,2-dichloroethene	96							
25 1,1-Dichloroethane	63							
\$ 26 Hexane-d14 (S)	66		4.703	4.700	(0.772)	263053	8.72892	8.73
29 cis-1,2-Dichloroethene	96							
31 Chloroform	83							
33 1,1,1-Trichloroethane	97							
34 1,2-Dichloroethane	62							
36 Carbon tetrachloride	117							
* 38 1,4-Difluorobenzene	114		6.090	6.094	(1.000)	624067	10.0000	
42 Trichloroethene	130							
47 trans-1,3-Dichloropropene	75							
\$ 48 Toluene-d8 (S)	98		7.841	7.848	(1.288)	442432	10.1511	10.2
50 1,1,2-Trichloroethane	97							
54 Tetrachloroethene	166		8.904	8.918	(0.919)	6223	0.54605	0.786 (M)
* 55 Chlorobenzene - d5	117		9.684	9.691	(1.000)	233792	10.0000	
62 1,1,2,2-Tetrachloroethane	83							
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.449	13.459	(1.389)	93756	9.93503	9.94

Data File: \\192.168.10.12\chem\10airD.i\072613.b\20707.d
Report Date: 29-Jul-2013 07:41

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\072613.b\20707.d
Report Date: 29-Jul-2013 07:41

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 20707.d
Lab Smp Id: 10236207001
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\072613.b\TO15_205-13.m
Misc Info: 17876

Calibration Date: 26-JUL-2013
Calibration Time: 11:27

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	624067	7.64
55 Chlorobenzene - d	221404	132842	309966	233792	5.60

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	-0.00
55 Chlorobenzene - d	9.69	9.36	10.02	9.68	-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\072613.b\20707.D

Date : 26-JUL-2013 14:08

Client ID:

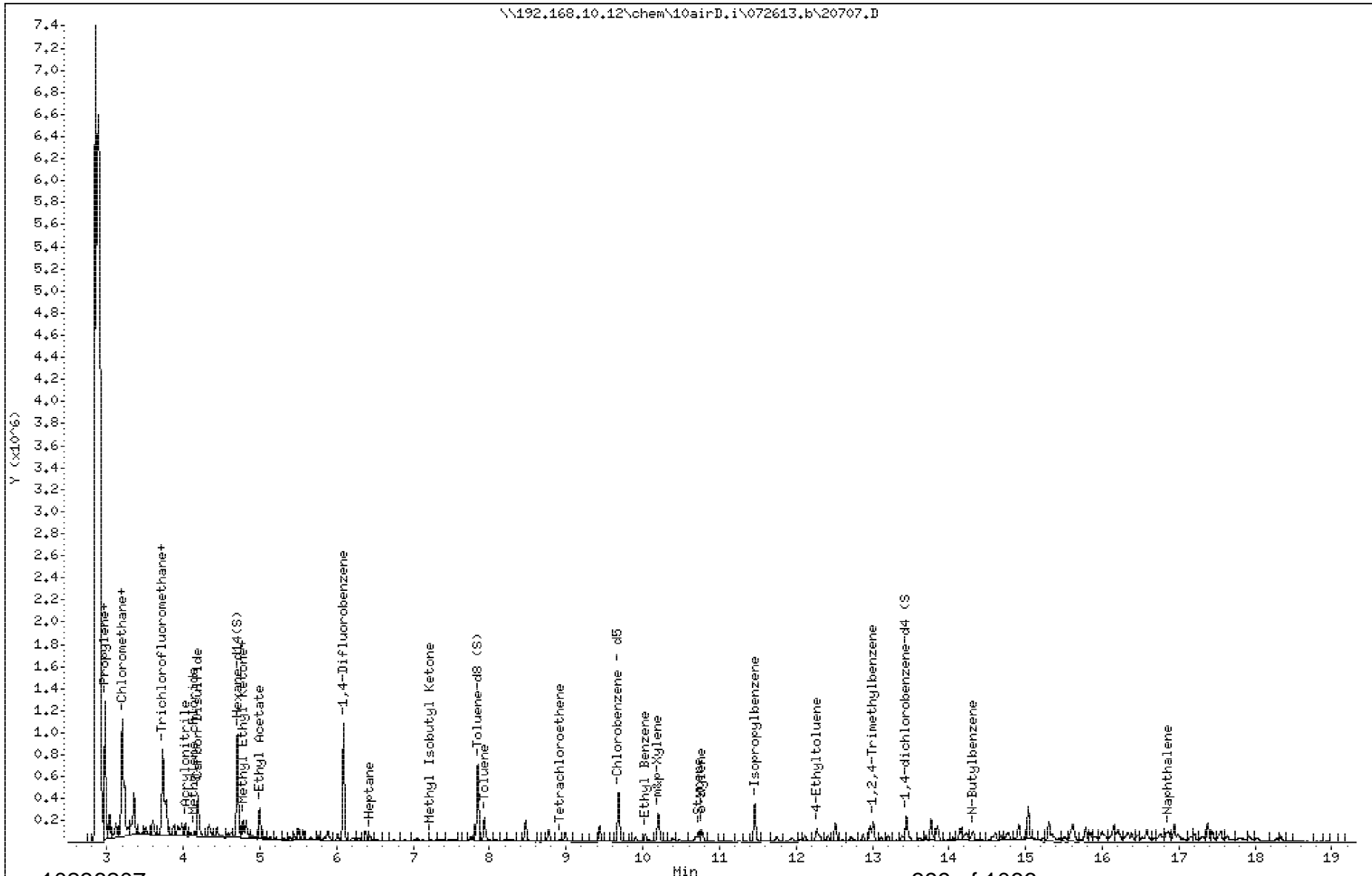
Instrument: 10airD.i

Sample Info:

Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32



Data File: \\192.168.10.12\chem\10airD,1\072613,b\20707.D

Date : 26-JUL-2013 14:08

Client ID:

Instrument: 10airD.i

Sample Info:

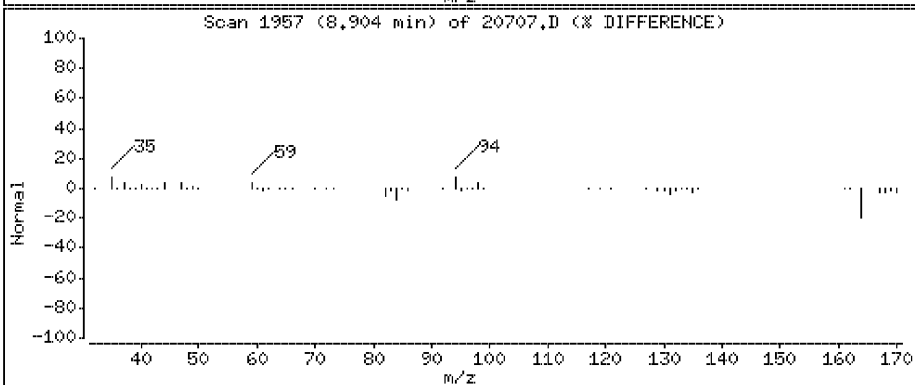
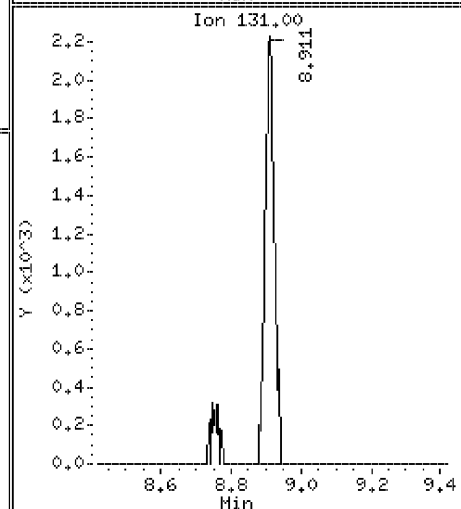
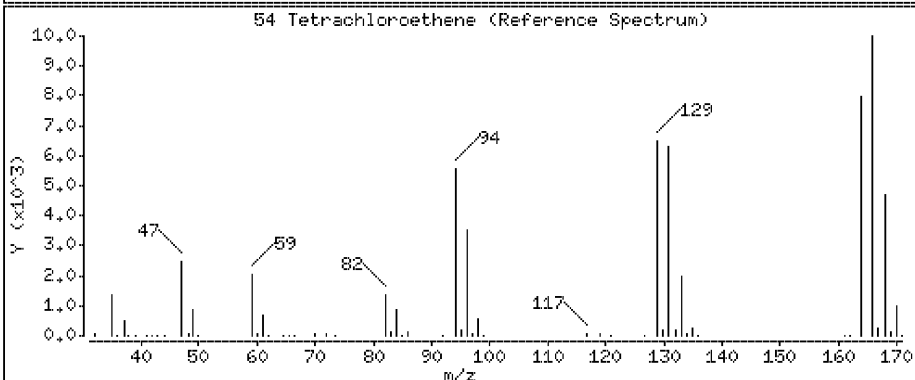
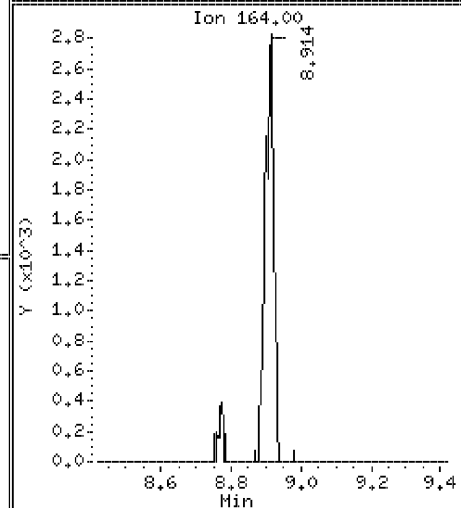
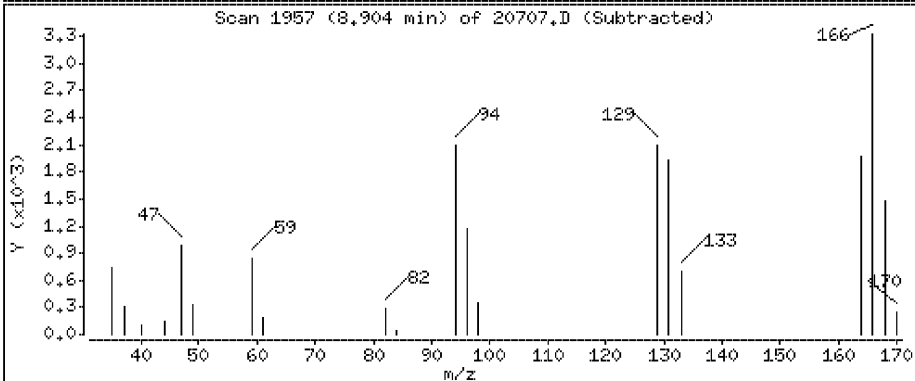
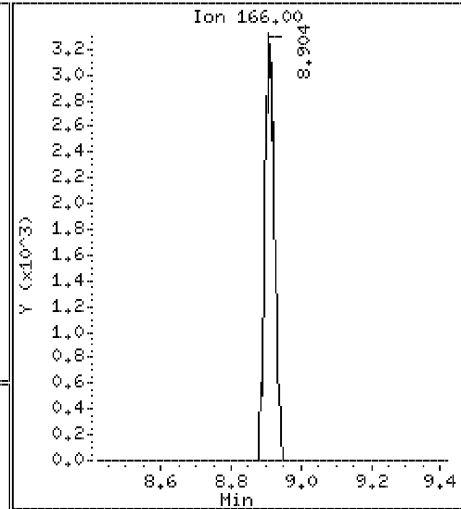
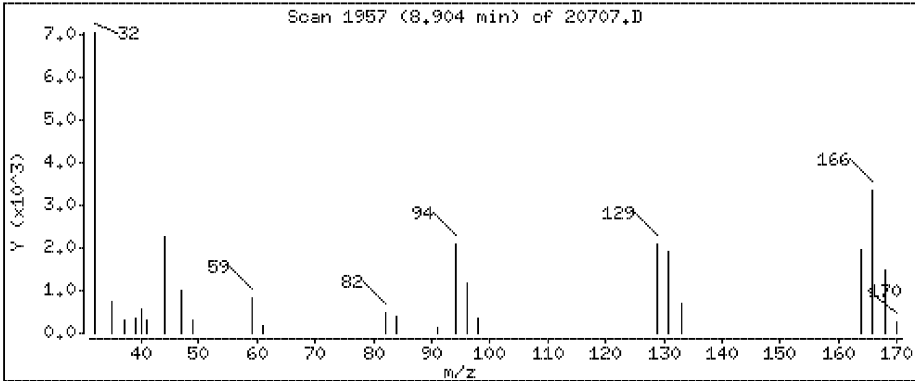
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

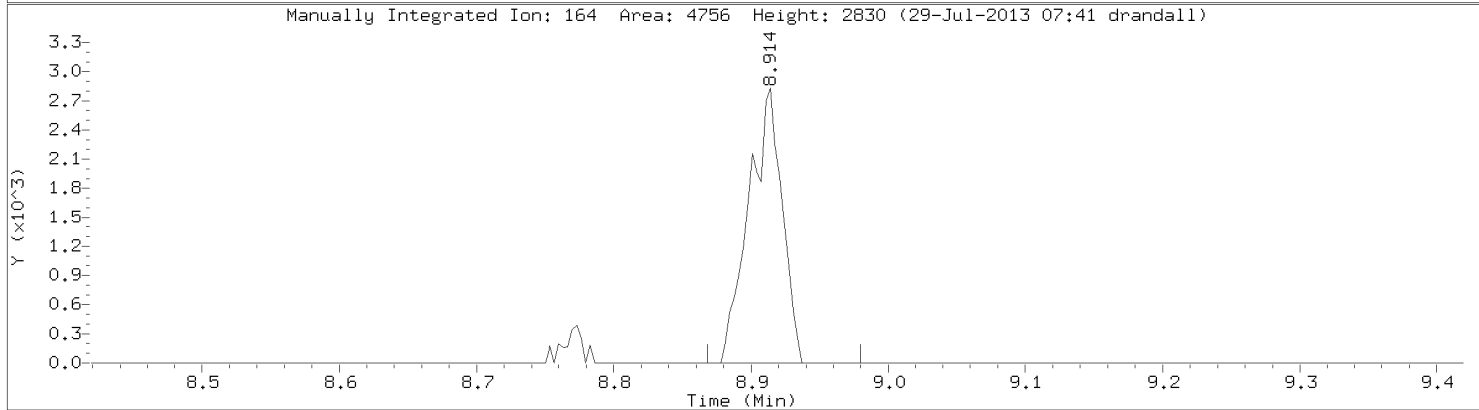
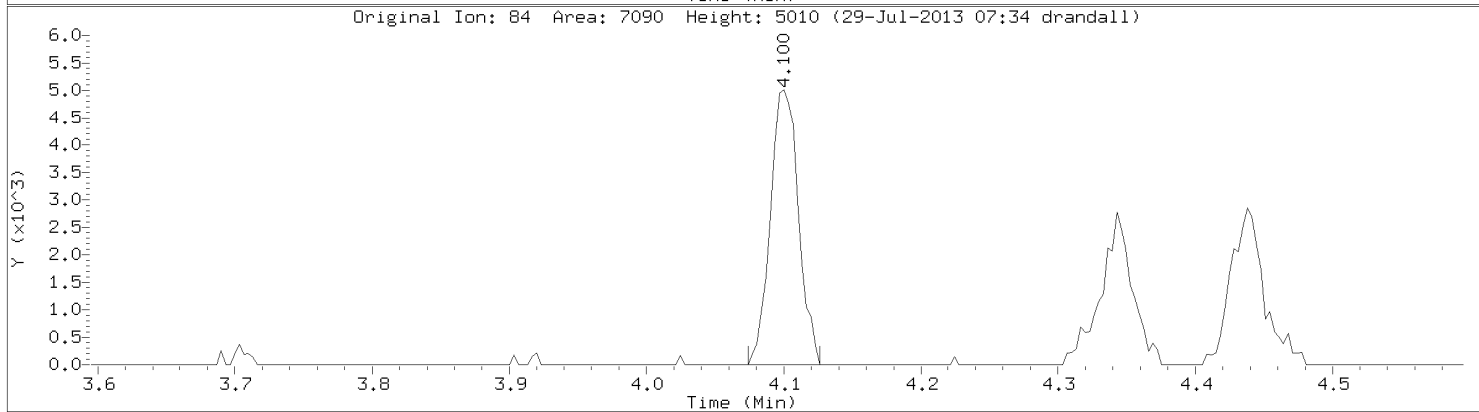
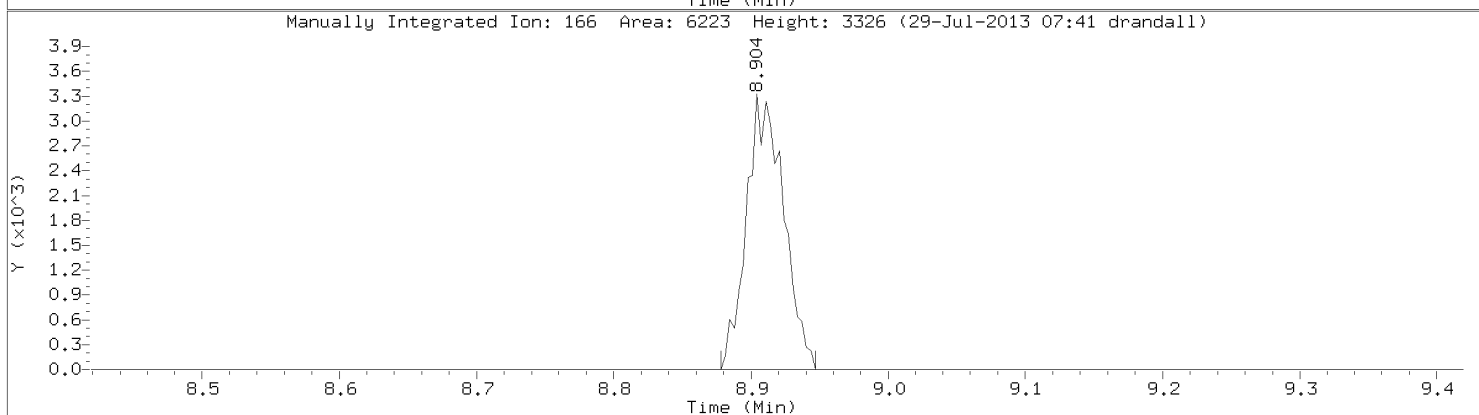
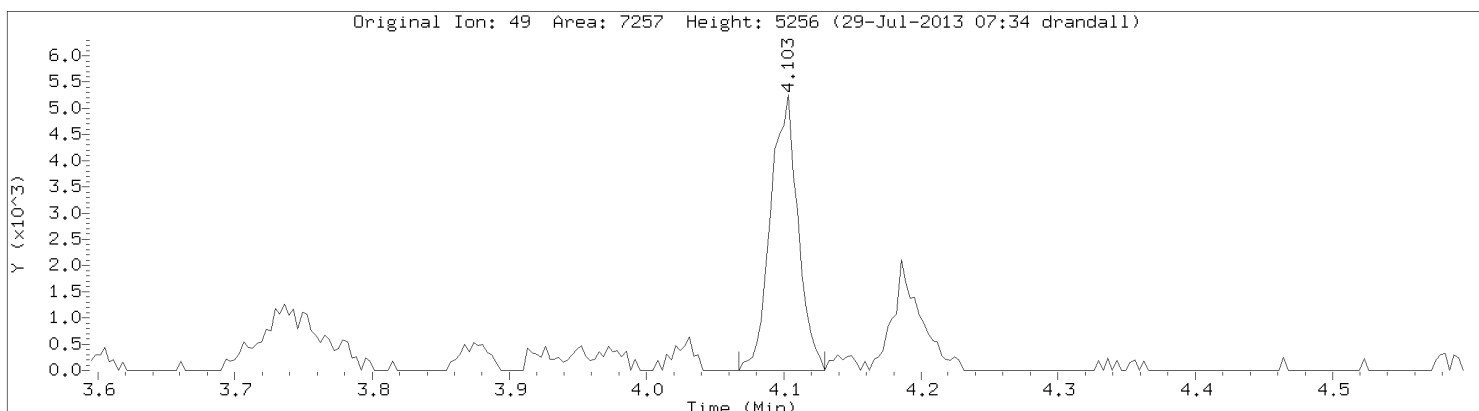
54 Tetrachloroethene

Concentration: 0.786 ppbv

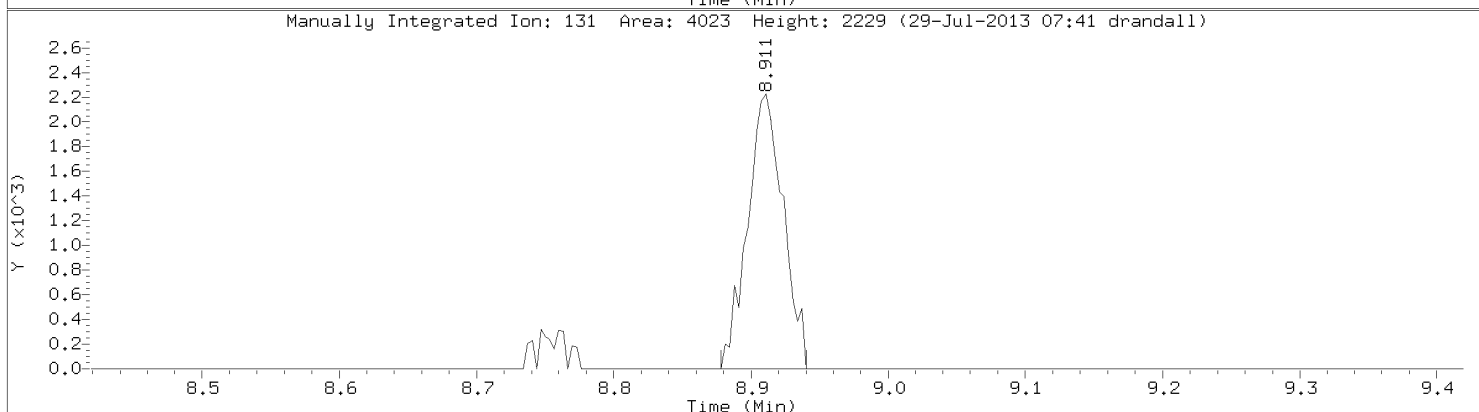
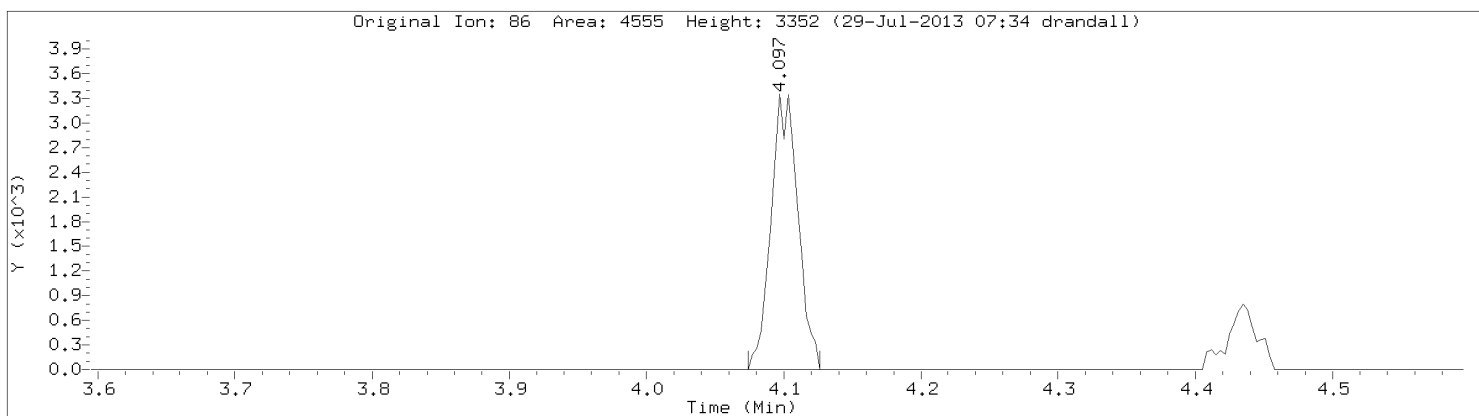


Data File: \\192.168.10.12\chem\10airD.i\072613.b\20707.d
Injection Date: 26-JUL-2013 14:08
Instrument: 10airD.i
Lab Sample ID: 10236207001

Compound: Tetrachloroethene
CAS Number: 127-18-4



Data File: \\192.168.10.12\chem\10airD.i\072613.b\20707.d
Injection Date: 26-JUL-2013 14:08
Instrument: 10airD.i
Lab Sample ID: 10236207001



Data File: \\192.168.10.12\chem\10airD.i\072513.b\20634.d
 Report Date: 26-Jul-2013 10:32

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072513.b\20634.d
 Lab Smp Id: 10236207002
 Inj Date : 26-JUL-2013 05:34
 Operator : DR1 Inst ID: 10airD.i
 Smp Info :
 Misc Info : 17870
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
 Meth Date : 25-Jul-2013 16:57 creindl Quant Type: ISTD
 Cal Date : 24-JUL-2013 16:39 Cal File: 20509.d
 Als bottle: 34
 Dil Factor: 1.44000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10AIRPC4

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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
1 Propylene	41							
2 Dichlorodifluoromethane	85		2.995	3.008	{0.492}	23233	0.25480	0.367
3 Dichlorotetrafluoroethane	85							
4 Chloromethane	50							
5 Vinyl chloride	62							
6 1,3-Butadiene	54							
7 Bromomethane	94							
8 Chloroethane	64							
9 Ethanol	31		3.500	3.494	{0.575}	20312	1.86986	2.69 (M)
10 Vinyl Bromide	106							
11 Acrolein	56							
12 Trichlorofluoromethane	101		3.693	3.694	{0.606}	14369	0.14487	0.209 (M)
13 Acetone	43		3.729	3.726	{0.612}	477264	9.59939	13.8
14 Isopropyl Alcohol	45							
15 1,1-Dichloroethene	61							
16 Acrylonitrile	53							
17 Tert Butyl Alcohol	59		3.982	3.989	{0.654}	72838	1.39645	2.01
18 Freon 113	101							
19 Methylene chloride	49		4.100	4.094	{0.673}	5848	0.20761	0.299
20 Allyl Chloride	76							
21 Carbon Disulfide	76		4.221	4.224	{0.693}	10895	0.13291	0.191
22 trans-1,2-dichloroethene	96							
23 Methyl Tert Butyl Ether	73							

Compounds	QUANT MASS	SIG	CONCENTRATIONS					
			RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppbv)	FINAL (ppbv)
24 Vinyl Acetate	43		Compound Not Detected.					
25 1,1-Dichloroethane	63		Compound Not Detected.					
\$ 26 Hexane-d14 (S)	66		4.703	4.700 (0.772)		307746	8.49773	8.50
27 Methyl Ethyl Ketone	72		4.772	4.779 (0.784)		27277	2.36970	3.41 (Q)
28 n-Hexane	57		4.818	4.818 (0.791)		16144	0.49037	0.706 (QM)
29 cis-1,2-Dichloroethene	96		Compound Not Detected.					
30 Ethyl Acetate	43		4.995	4.999 (0.820)		147625	4.09805	5.90 (Q)
31 Chloroform	83		Compound Not Detected.					
32 Tetrahydrofuran	42		Compound Not Detected.					
33 1,1,1-Trichloroethane	97		Compound Not Detected.					
34 1,2-Dichloroethane	62		Compound Not Detected.					
35 Benzene	78		5.880	5.887 (0.966)		14571	0.60118	0.866 (M)
36 Carbon tetrachloride	117		Compound Not Detected.					
37 Cyclohexane	56		Compound Not Detected.					
* 38 1,4-Difluorobenzene	114		6.090	6.094 (1.000)		749960	10.0000	
39 2,2,4-Trimethylpentane	57		Compound Not Detected.					
40 Heptane	43		6.431	6.442 (1.056)		4438	0.60893	0.877 (M)
41 1,2-Dichloropropane	63		Compound Not Detected.					
42 Trichloroethene	130		Compound Not Detected.					
43 1,4-Dioxane	88		Compound Not Detected.					
44 Bromodichloromethane	83		Compound Not Detected.					
45 Methyl Isobutyl Ketone	43		7.222	7.229 (1.186)		5803	0.54543	0.785 (M)
46 cis-1,3-Dichloropropene	75		Compound Not Detected.					
47 trans-1,3-Dichloropropene	75		Compound Not Detected.					
\$ 48 Toluene-d8 (S)	98		7.838	7.848 (1.287)		516672	9.86450	9.86
49 Toluene	91		7.933	7.940 (1.303)		64657	1.12841	1.62
50 1,1,2-Trichloroethane	97		Compound Not Detected.					
51 Methyl Butyl Ketone	43		Compound Not Detected.					
52 Dibromochloromethane	129		Compound Not Detected.					
53 1,2-Dibromoethane	107		Compound Not Detected.					
54 Tetrachloroethene	166		8.907	8.918 (0.920)		4154	0.47371	0.682 (M)
* 55 Chlorobenzene - d5	117		9.684	9.691 (1.000)		275439	10.0000	
56 Chlorobenzene	112		Compound Not Detected.					
57 Ethyl Benzene	91		10.032	10.039 (1.036)		28541	0.57778	0.832
58 m&p-Xylene	91		10.199	10.213 (1.053)		100748	1.45706	2.10
59 Bromoform	173		10.652	10.659 (1.100)		3061	0.30890	0.445 (MH)
60 Styrene	104		Compound Not Detected.					
61 o-Xylene	91		10.773	10.783 (1.112)		30768	0.54361	0.783
62 1,1,2,2-Tetrachloroethane	83		Compound Not Detected.					
63 Isopropylbenzene	105		Compound Not Detected.					
64 N-Propylbenzene	91		12.114	12.121 (1.251)		13065	0.39875	0.574 (M)
65 4-Ethyltoluene	105		12.308	12.321 (1.271)		19899	0.52399	0.754 (M)
66 1,3,5-Trimethylbenzene	105		12.419	12.426 (1.282)		15942	0.47596	0.685 (M)
67 1,2,4-Trimethylbenzene	105		13.013	13.020 (1.344)		73776	1.22111	1.76
68 1,3-Dichlorobenzene	146		Compound Not Detected.					
69 Sec- Butylbenzene	105		Compound Not Detected.					
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.446	13.459 (1.388)		103999	9.35413	9.35
71 Benzyl Chloride	91		Compound Not Detected.					
72 1,4-Dichlorobenzene	146		Compound Not Detected.					
73 1,2-Dichlorobenzene	146		Compound Not Detected.					
74 N-Butylbenzene	91		Compound Not Detected.					
75 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
76 Naphthalene	128		16.859	16.860 (1.741)		36688	1.21780	1.75
77 Hexachlorobutadiene	225		Compound Not Detected.					

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20634.d
Report Date: 26-Jul-2013 10:32

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
	MASS					ON-COLUMN	FINAL
=====	====	====	=====	=====	=====	(ppbv)	(ppbv)

QC Flag Legend

- 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\10airD.i\072513.b\20634.d
Report Date: 26-Jul-2013 10:32

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 20634.d
Lab Smp Id: 10236207002
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
Misc Info: 17870

Calibration Date: 25-JUL-2013
Calibration Time: 13:08

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	749960	29.35
55 Chlorobenzene - d	221404	132842	309966	275439	24.41

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	0.00
55 Chlorobenzene - d	9.69	9.36	10.02	9.68	-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\072513.b\20634.D

Date : 26-JUL-2013 05:34

Client ID:

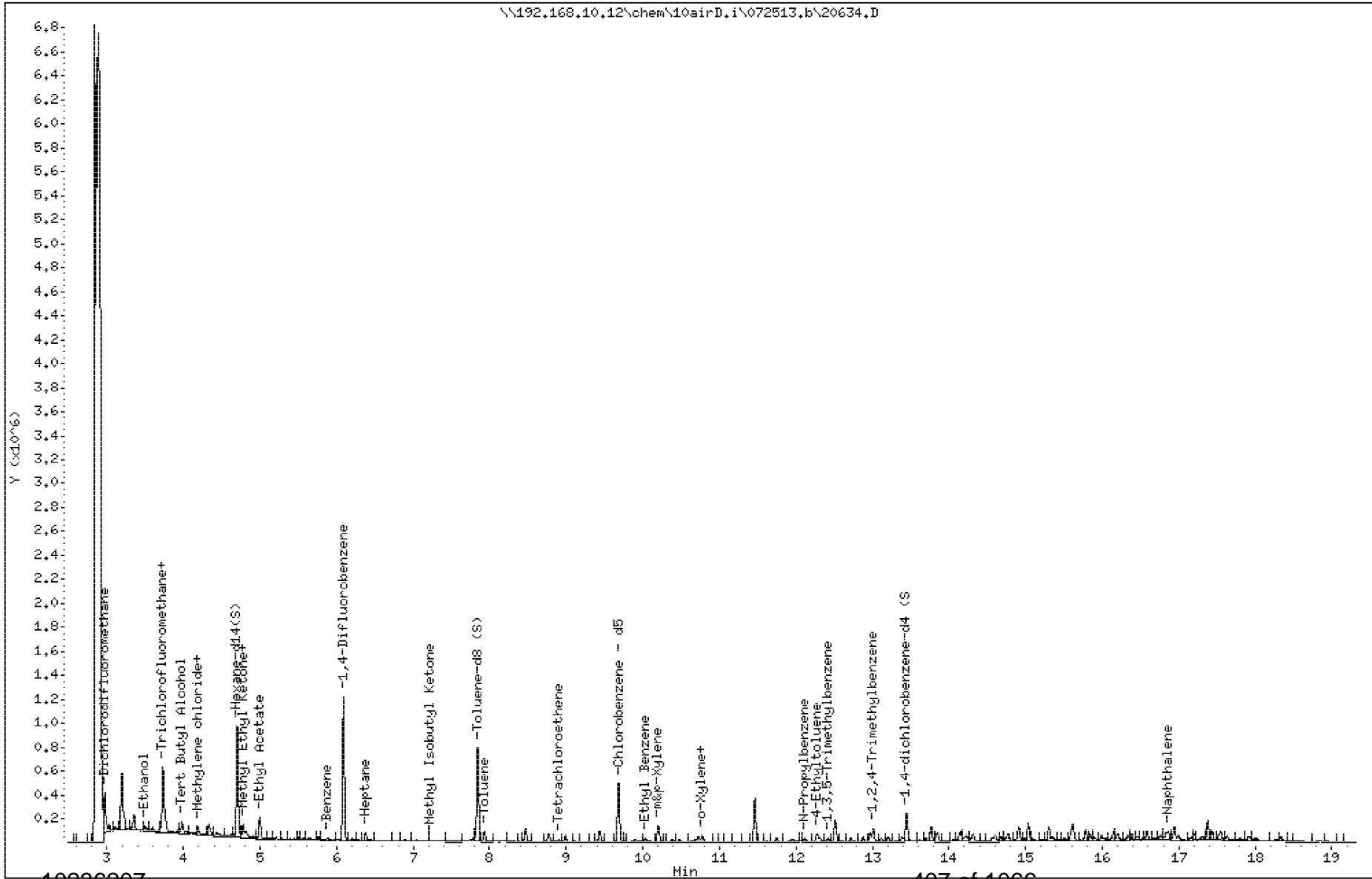
Instrument: 10airD.i

Sample Info:

Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20634.D

Date : 26-JUL-2013 05:34

Client ID:

Instrument: 10airD.i

Sample Info:

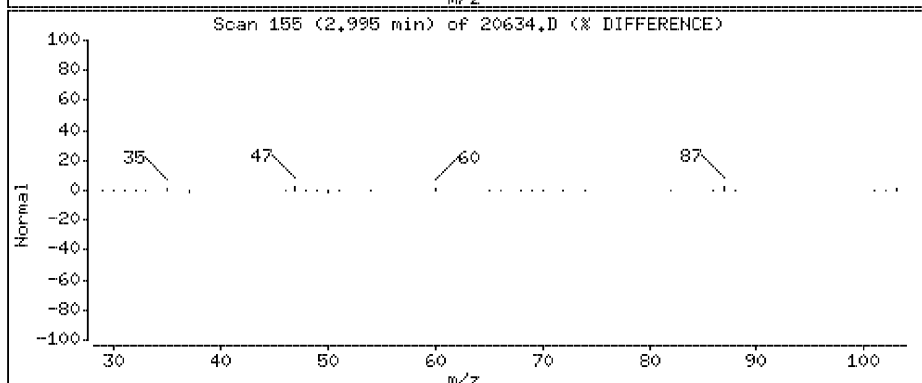
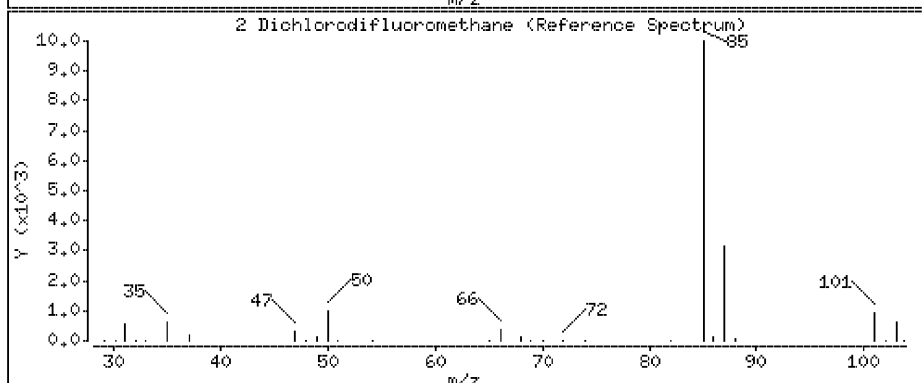
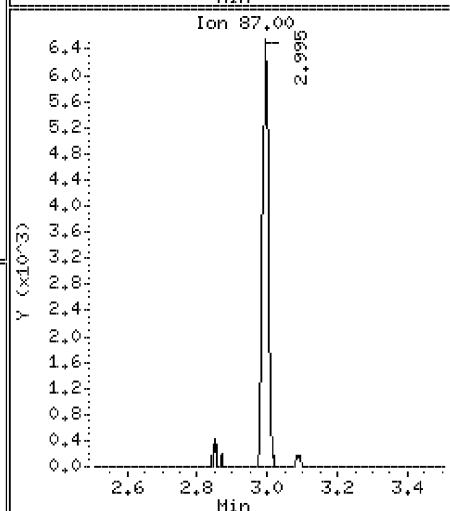
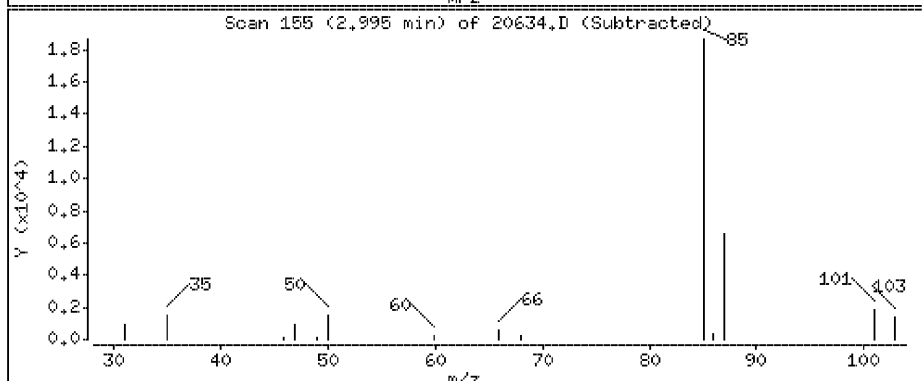
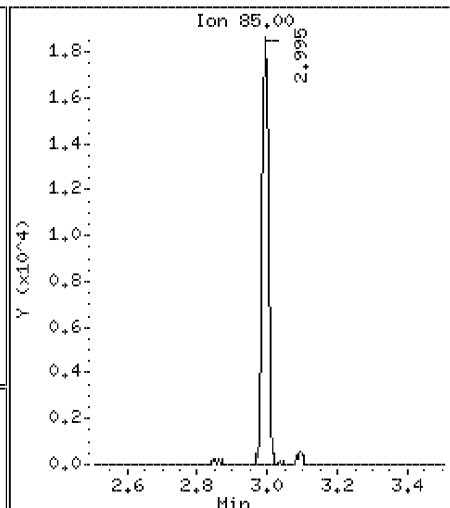
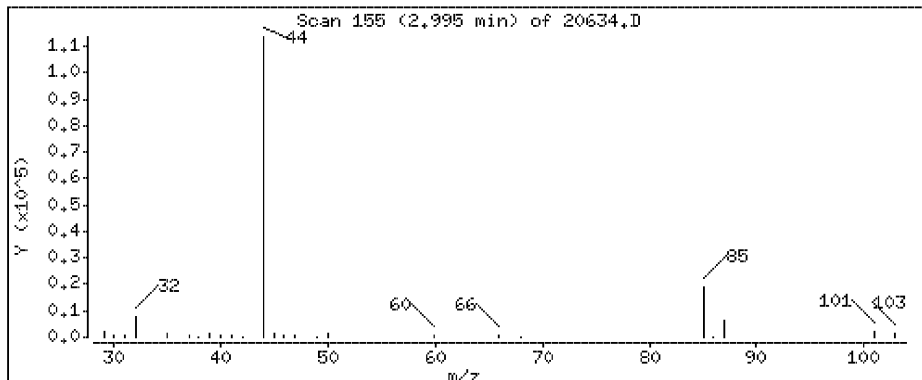
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

2 Dichlorodifluoromethane

Concentration: 0,367 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20634.D

Date : 26-JUL-2013 05:34

Client ID:

Instrument: 10airD.i

Sample Info:

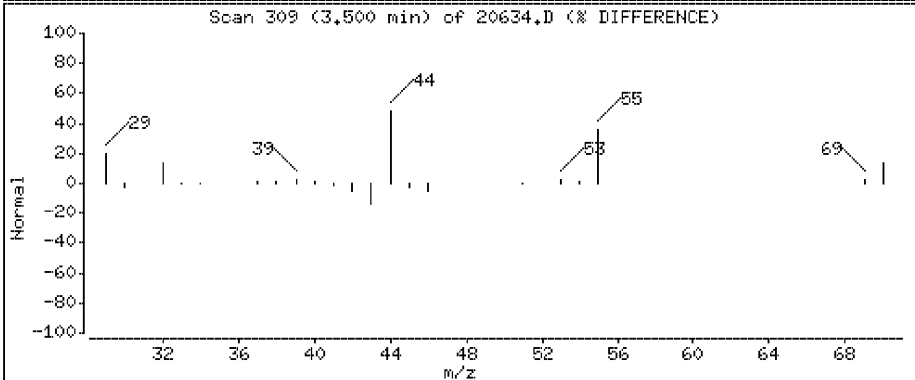
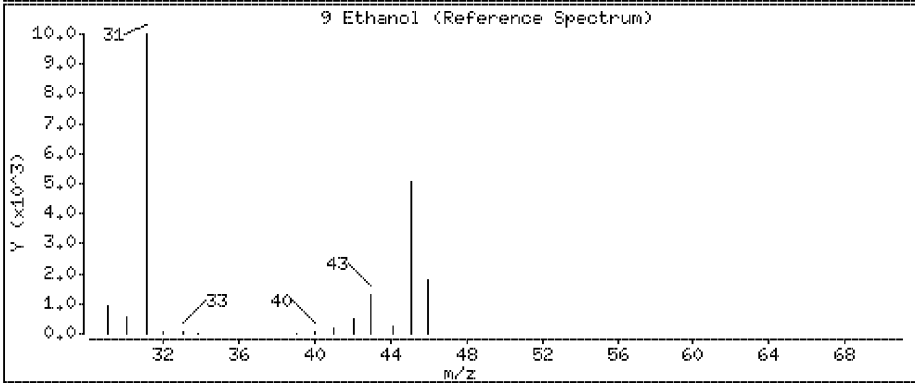
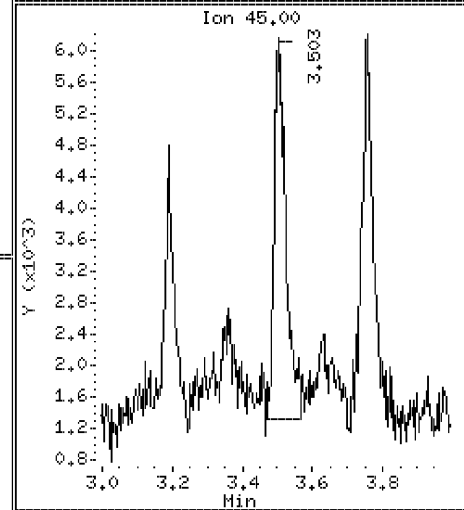
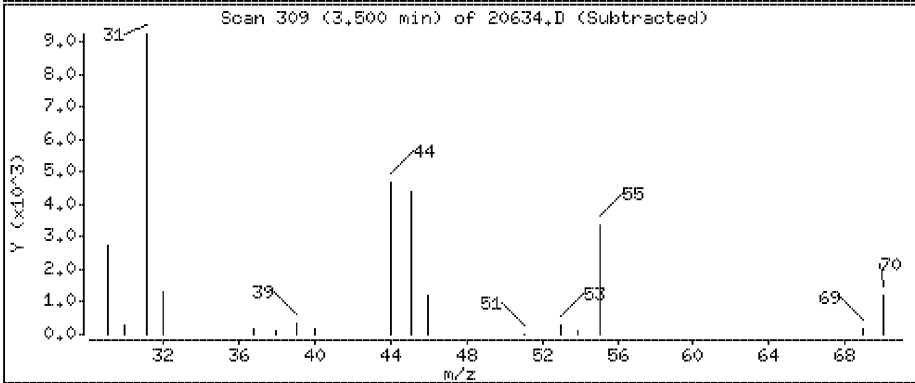
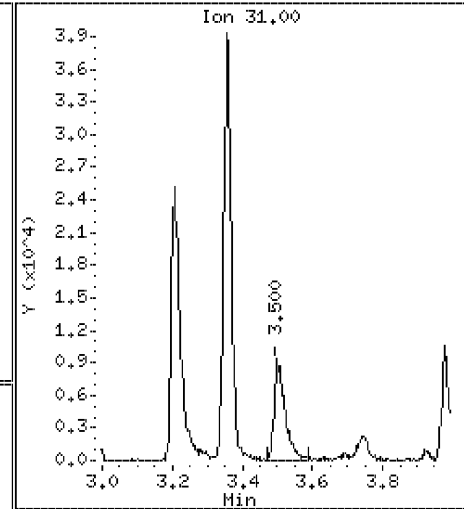
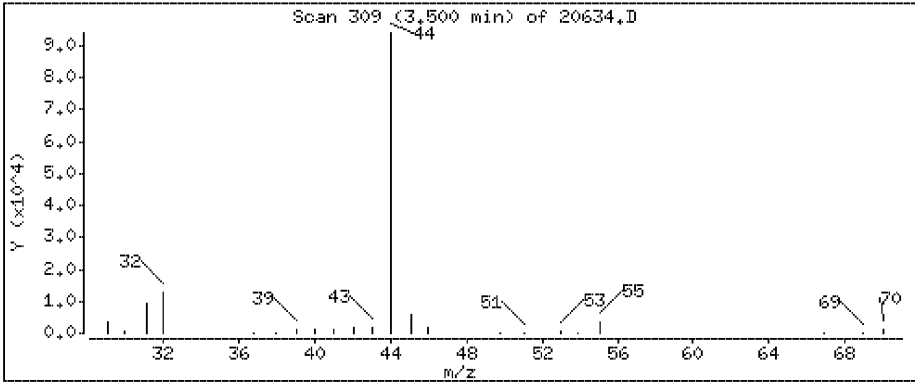
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

9 Ethanol

Concentration: 2.69 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20634.D

Date : 26-JUL-2013 05:34

Client ID:

Instrument: 10airD.i

Sample Info:

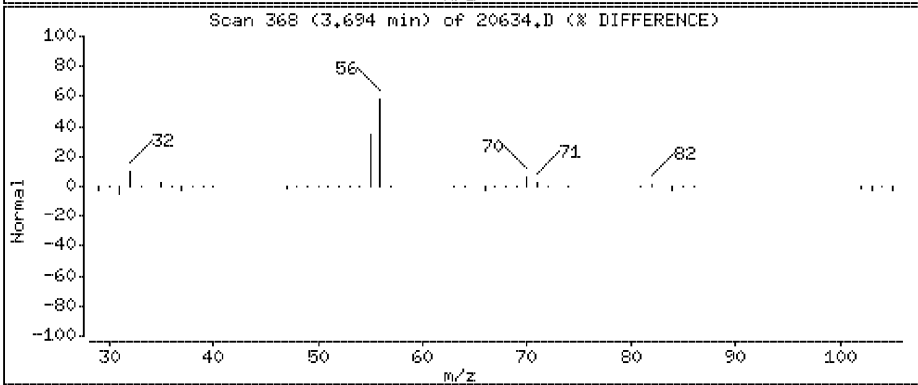
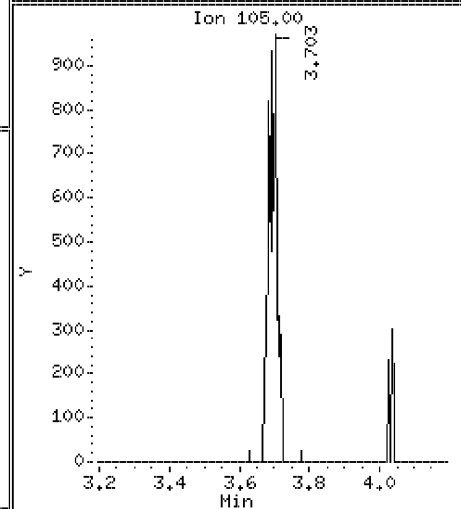
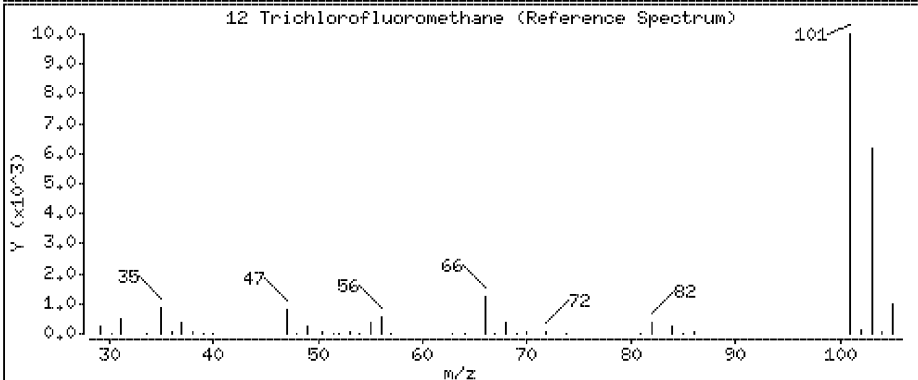
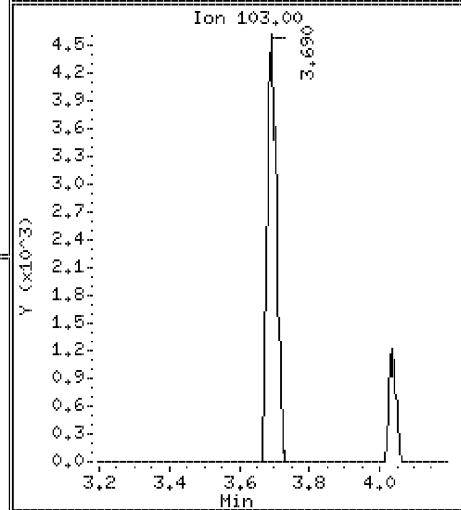
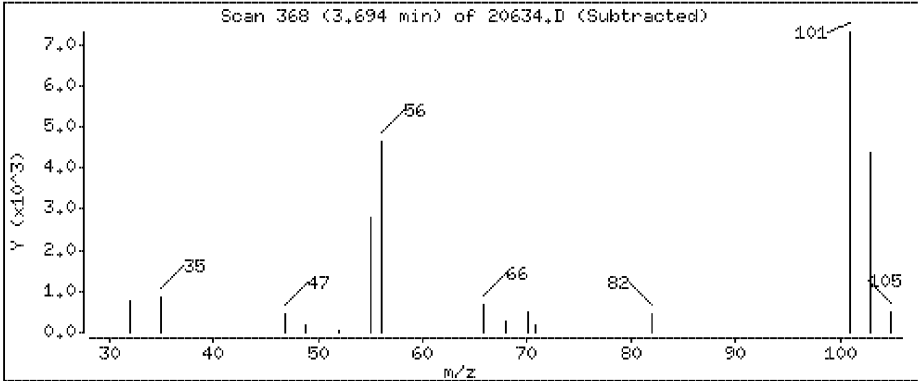
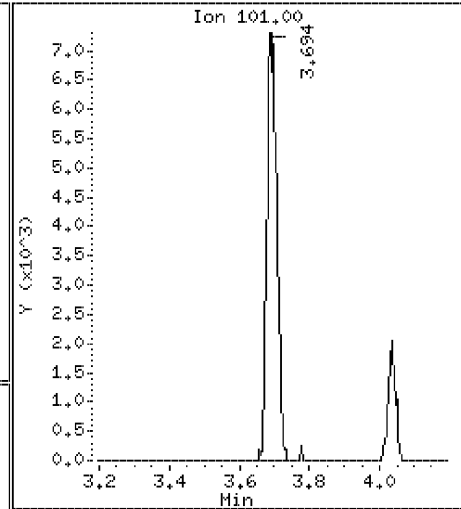
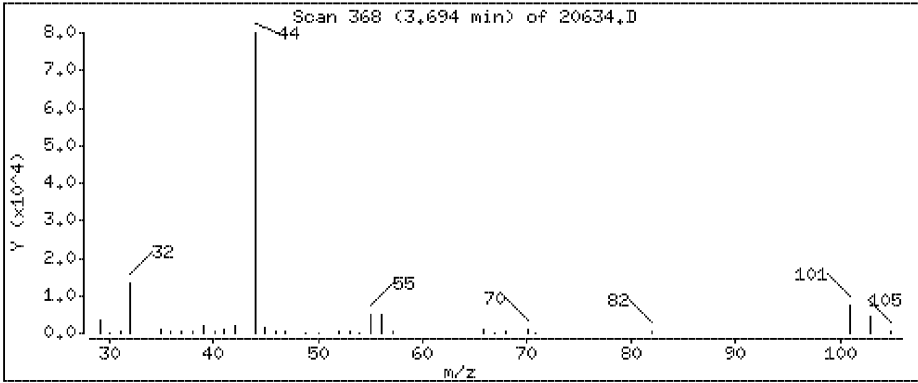
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

12 Trichlorofluoromethane

Concentration: 0.209 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20634.D

Date : 26-JUL-2013 05:34

Client ID:

Instrument: 10airD.i

Sample Info:

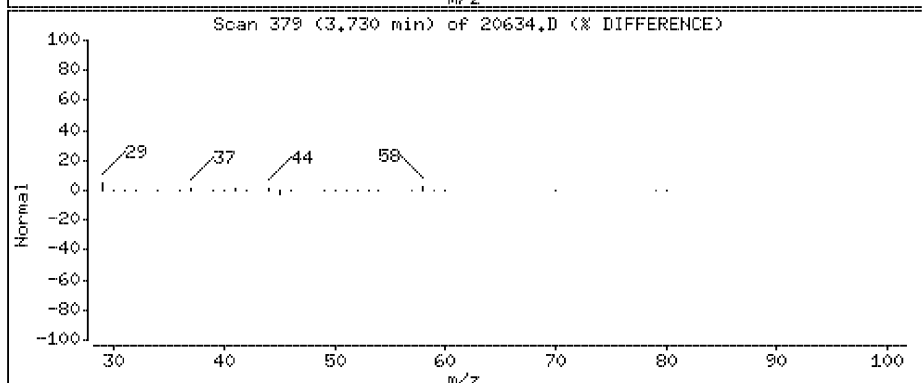
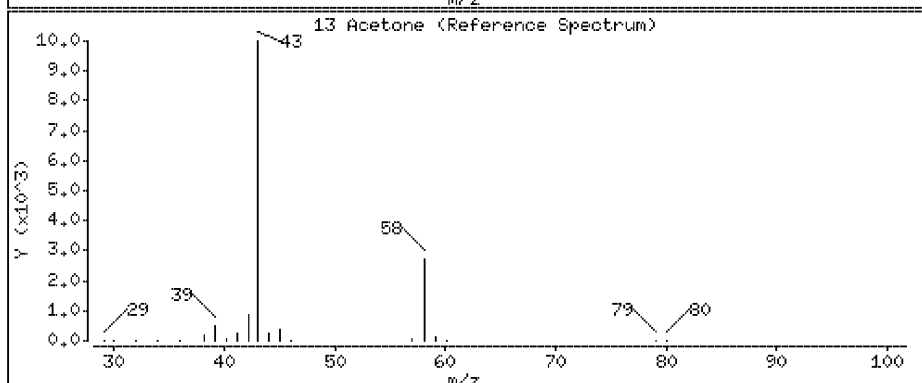
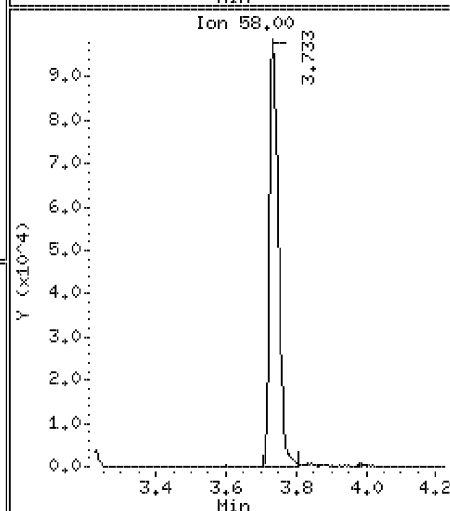
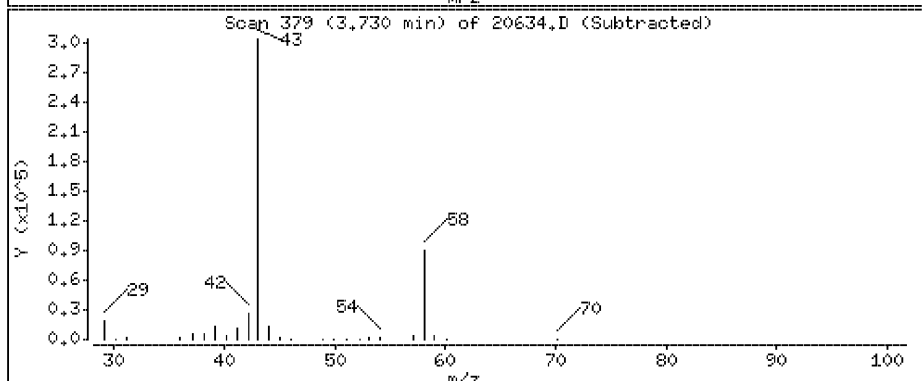
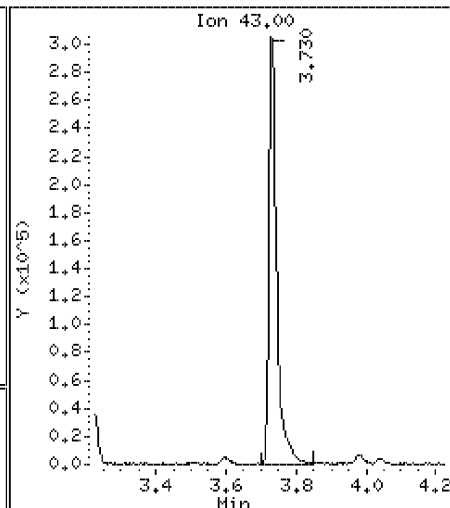
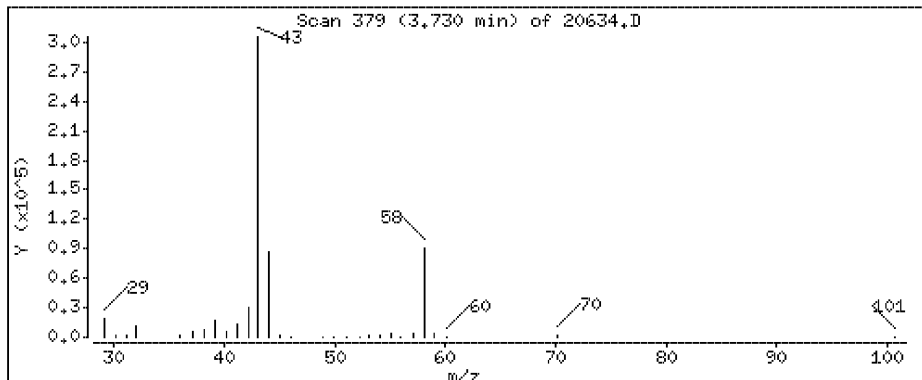
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

13 Acetone

Concentration: 13,8 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20634.D

Date : 26-JUL-2013 05:34

Client ID:

Instrument: 10airD.i

Sample Info:

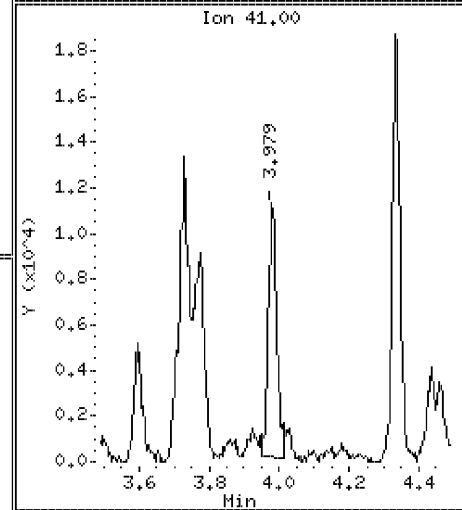
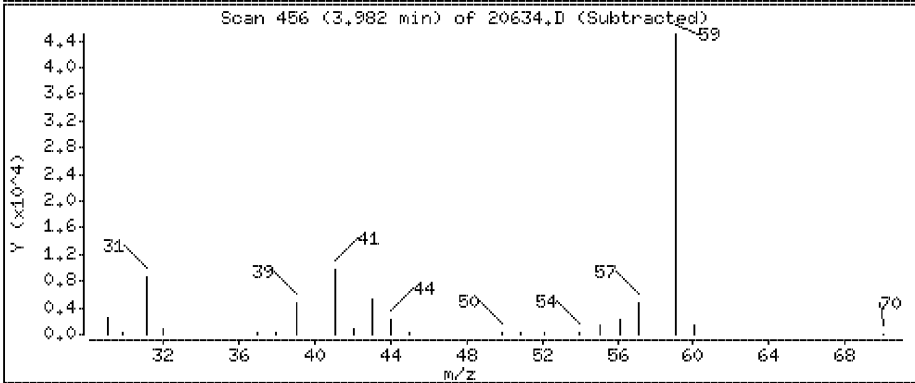
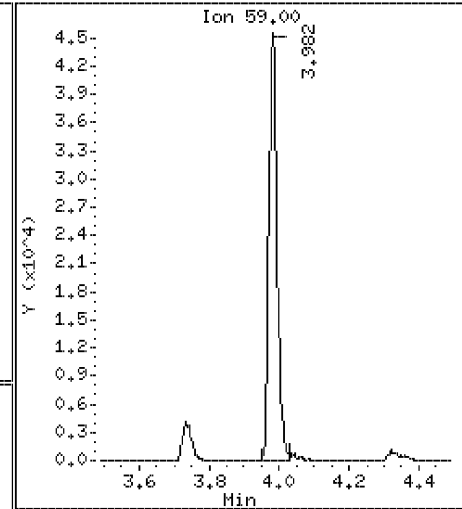
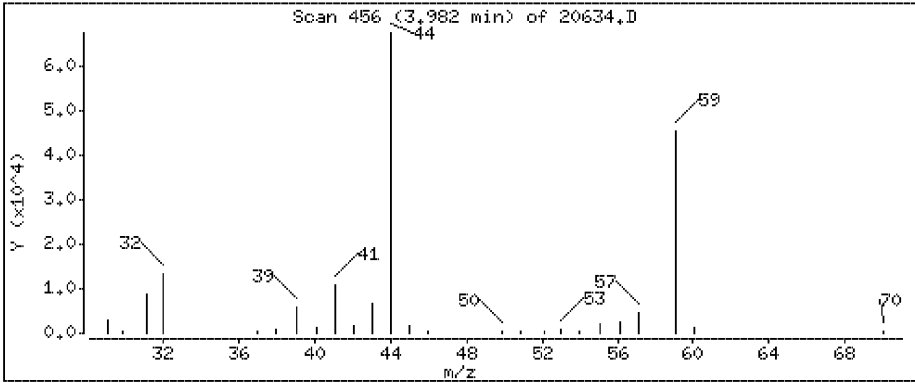
Operator: DR1

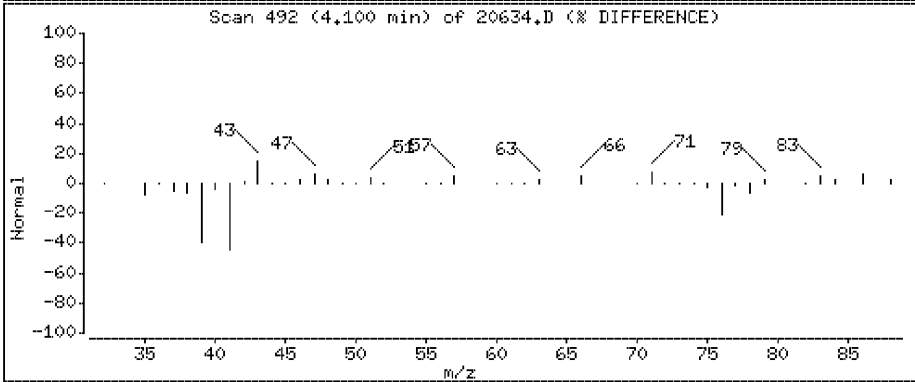
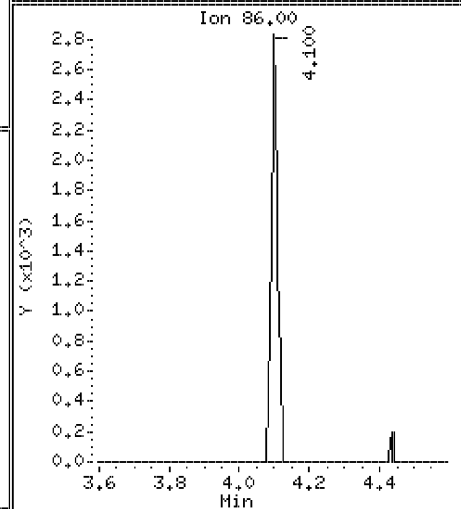
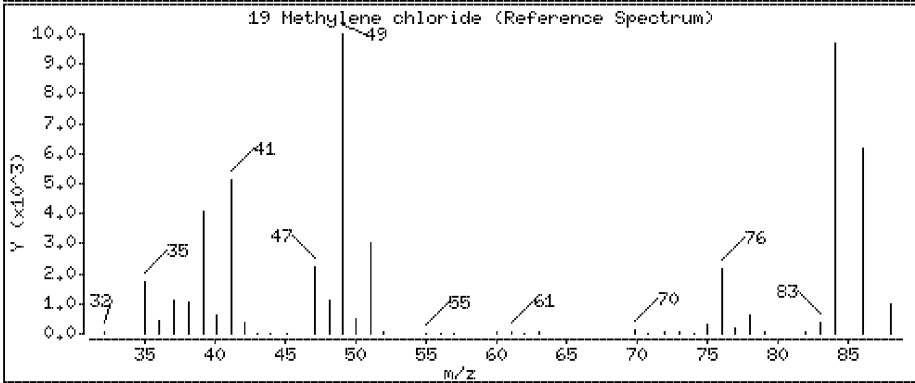
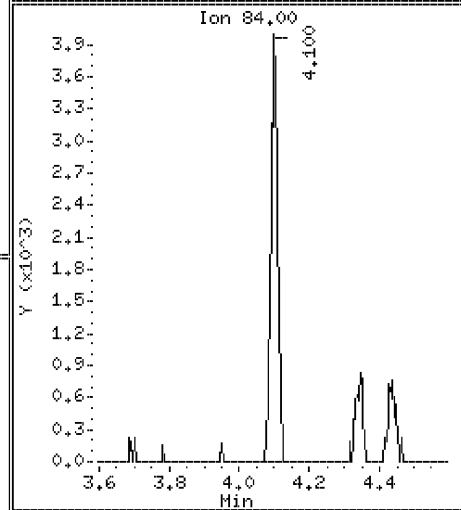
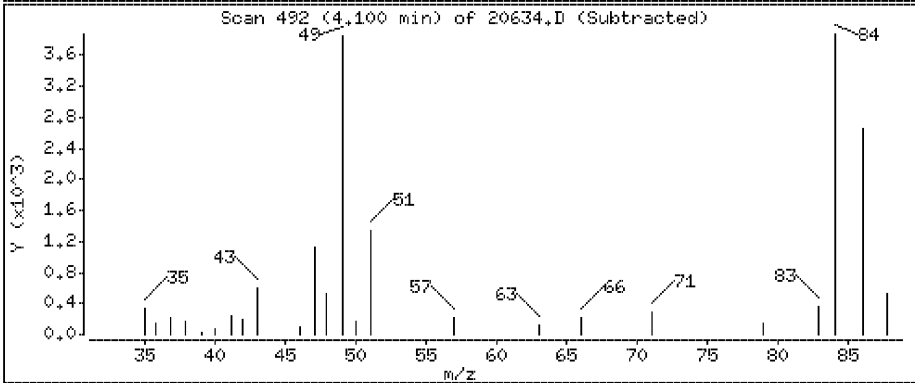
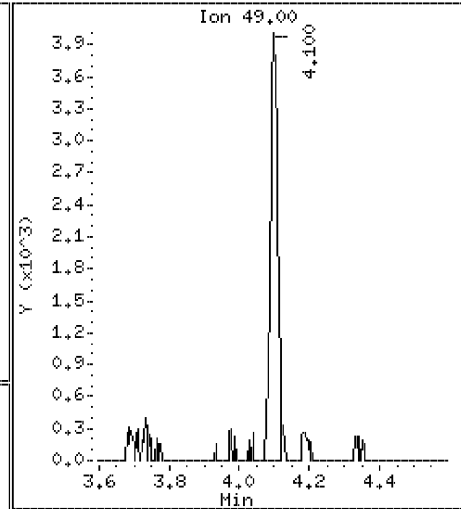
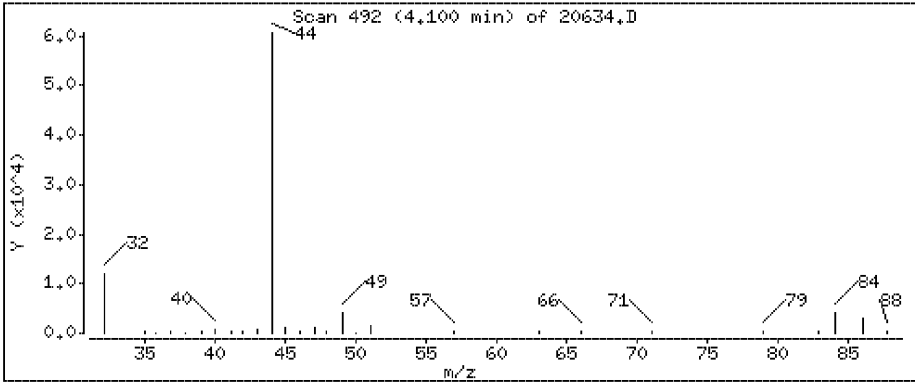
Column phase: J&W DB-5

Column diameter: 0.32

17 Tert Butyl Alcohol

Concentration: 2.01 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20634.D

Date : 26-JUL-2013 05:34

Client ID:

Instrument: 10airD.i

Sample Info:

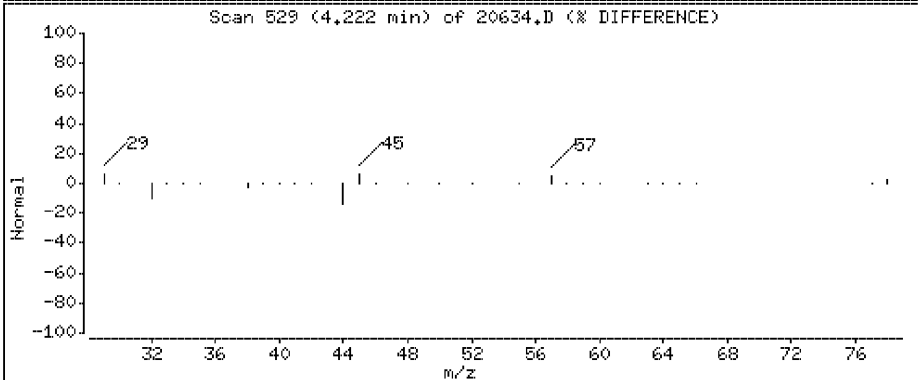
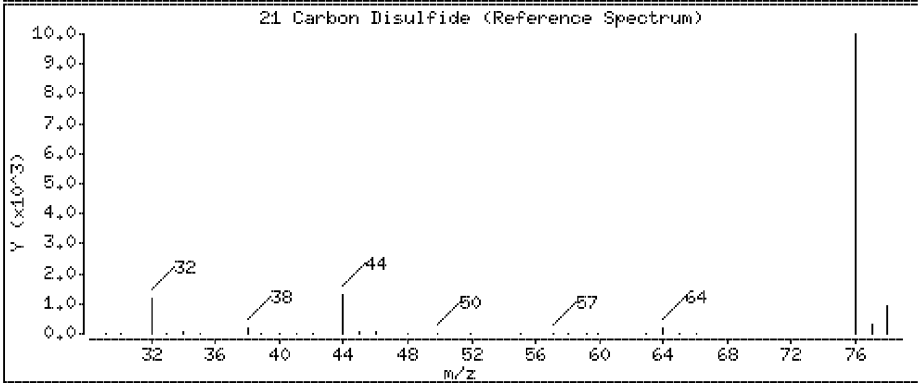
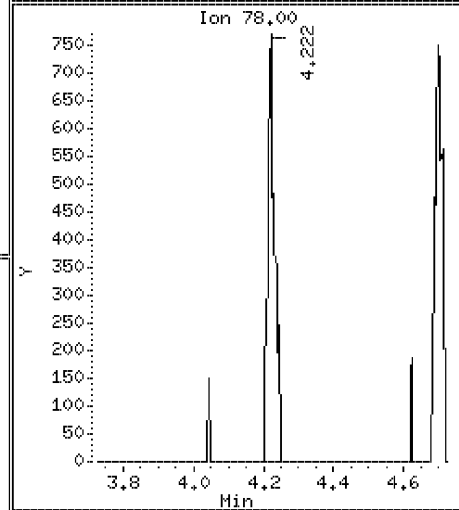
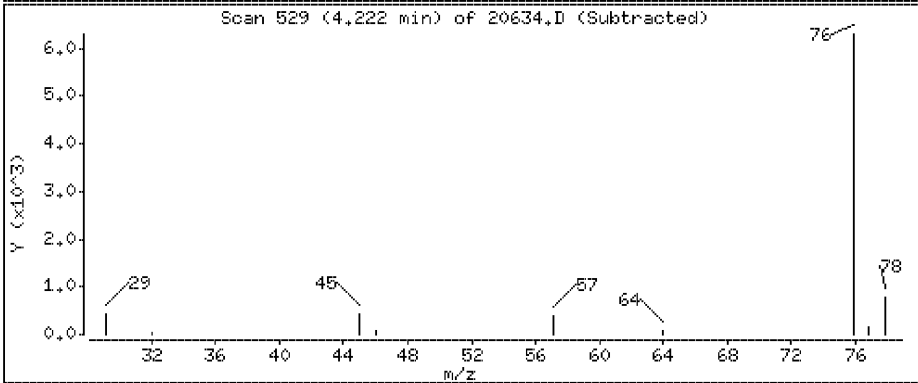
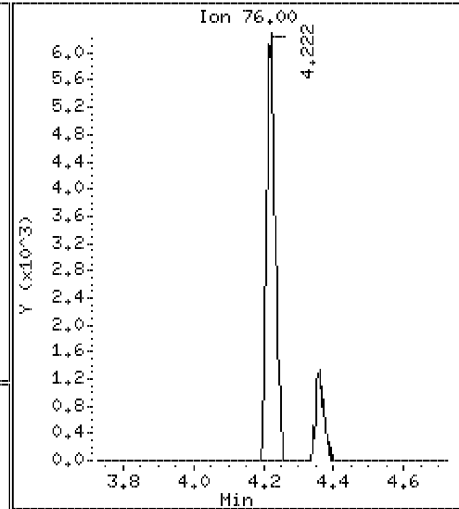
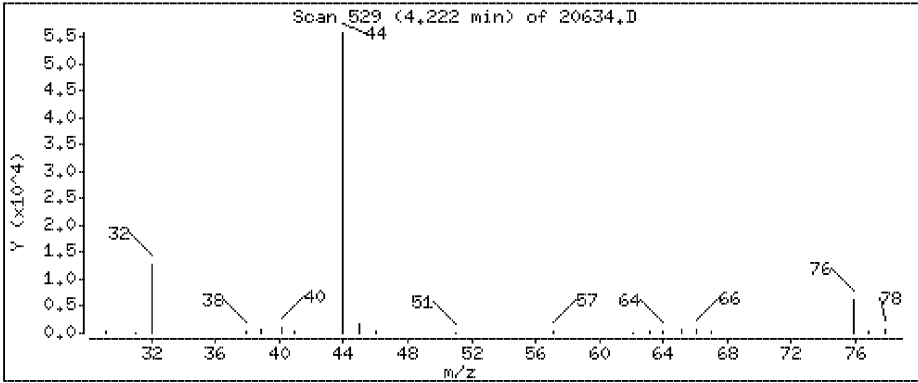
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

21 Carbon Disulfide

Concentration: 0.191 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20634.D

Date : 26-JUL-2013 05:34

Client ID:

Instrument: 10airD.i

Sample Info:

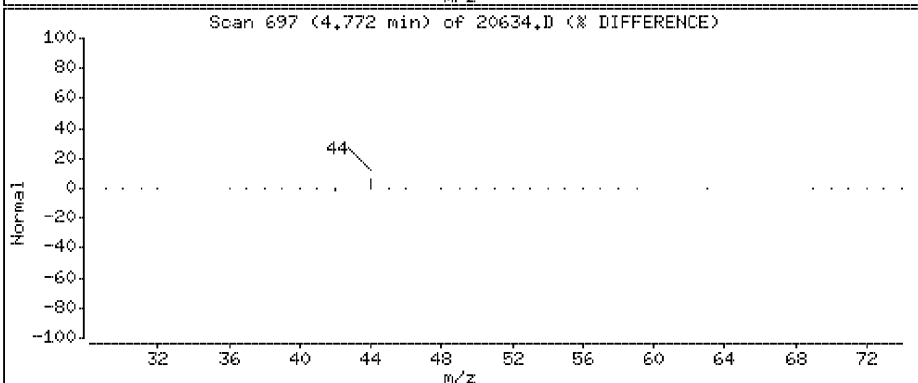
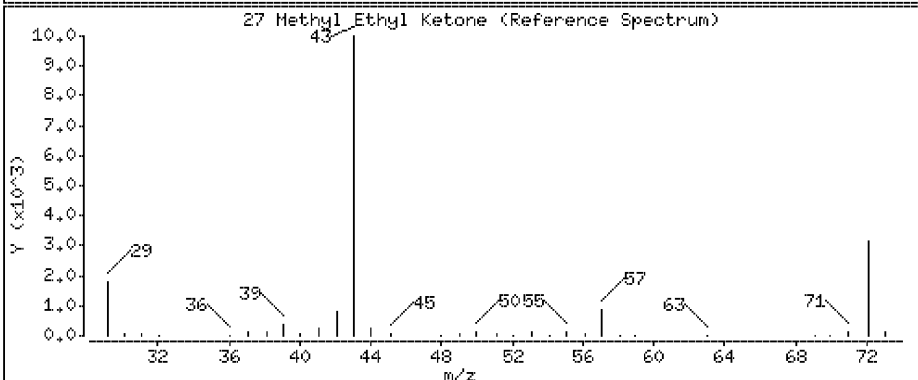
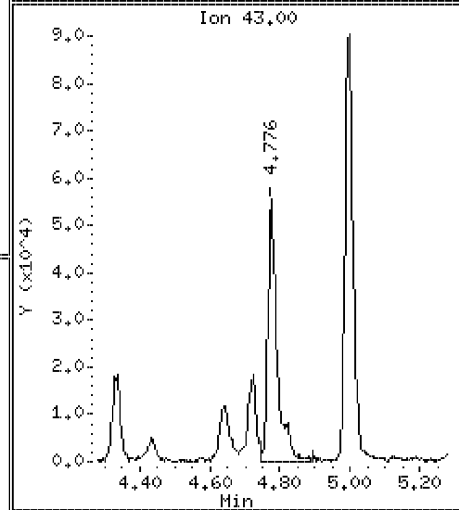
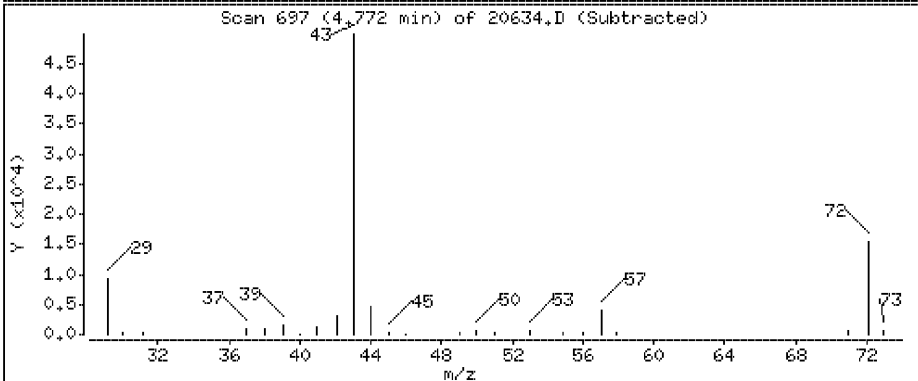
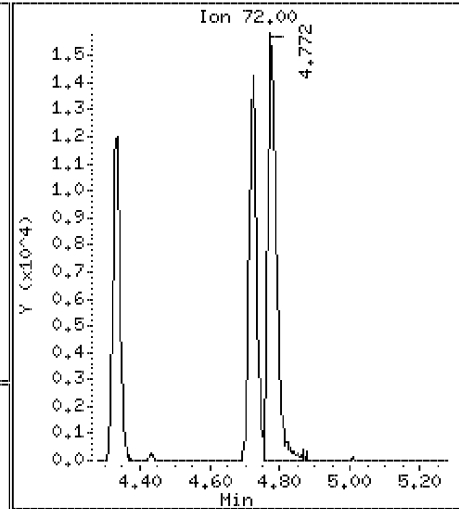
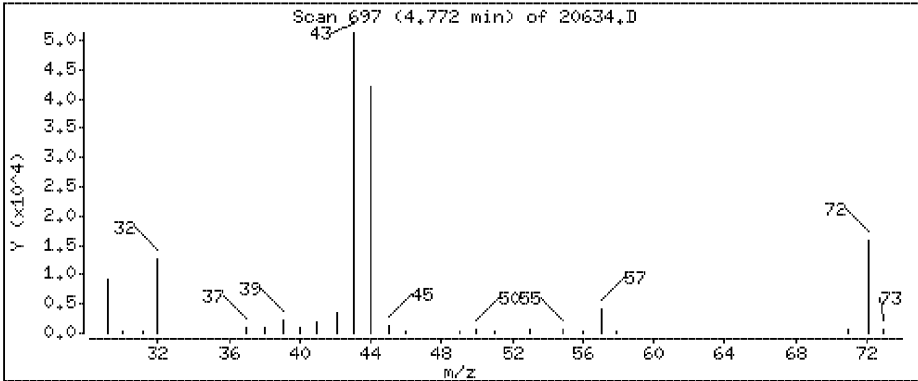
Operator: DR1

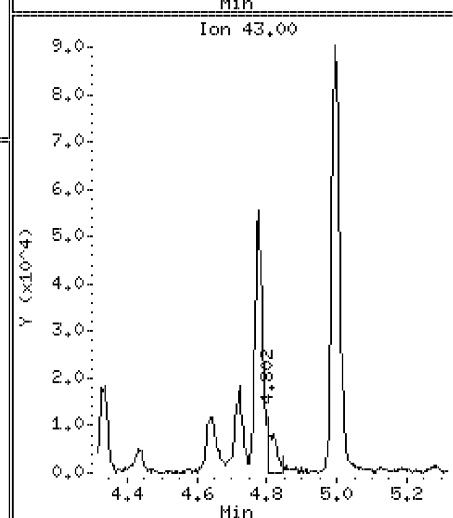
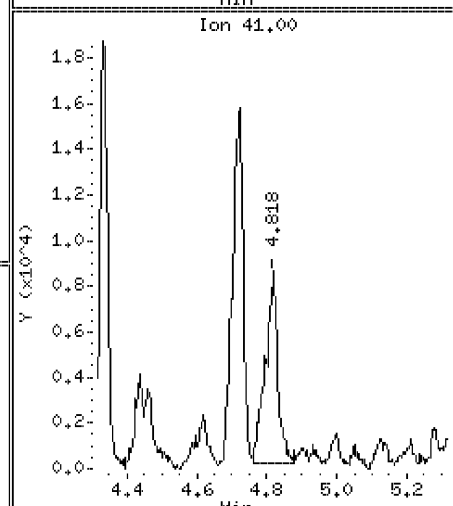
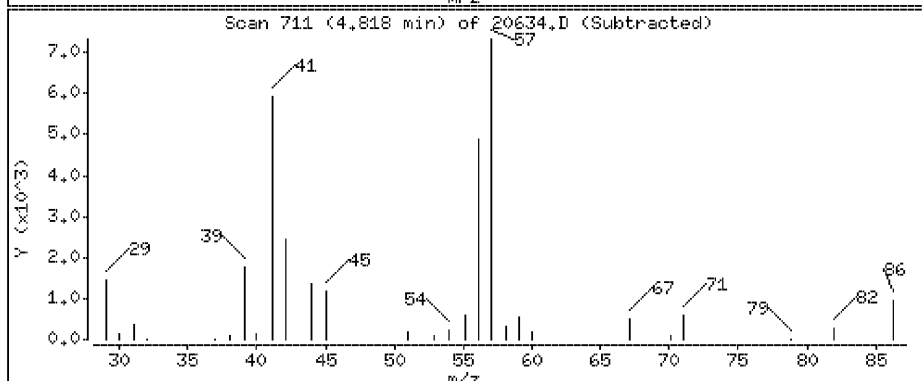
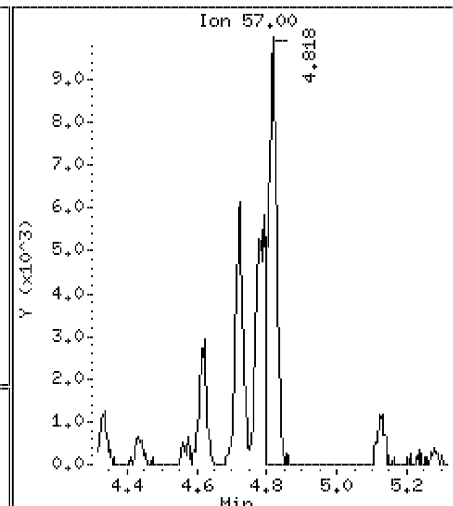
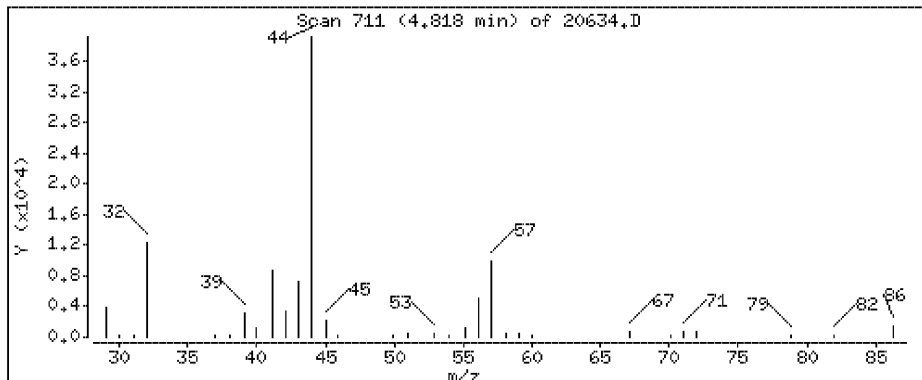
Column phase: J&W DB-5

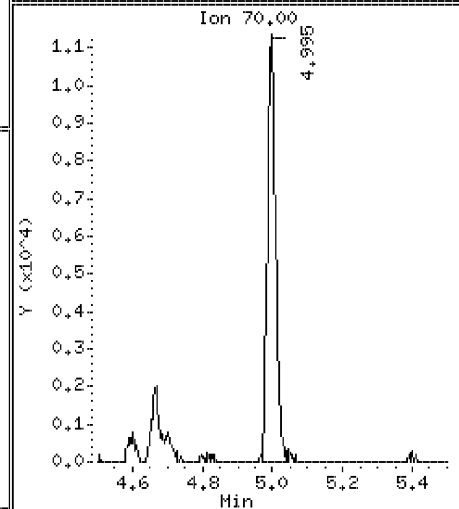
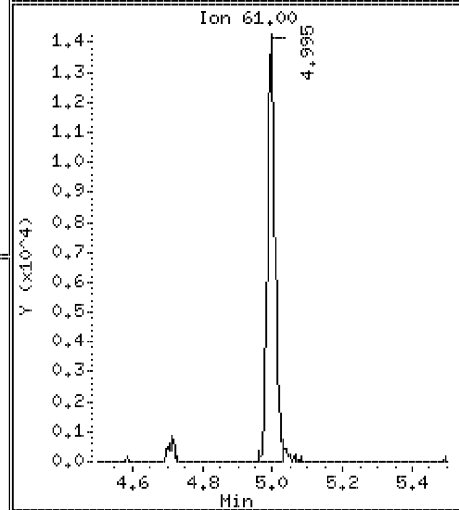
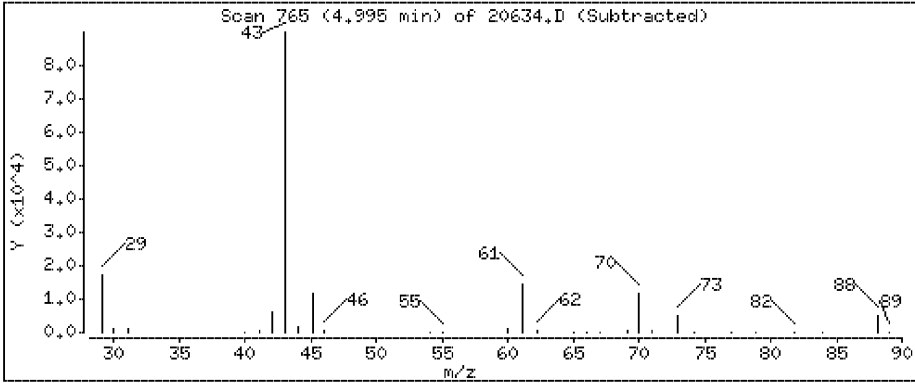
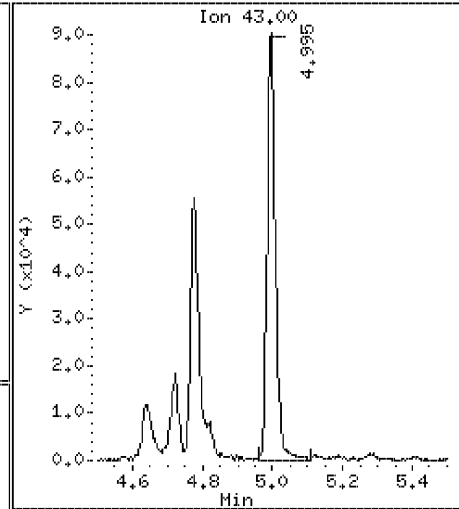
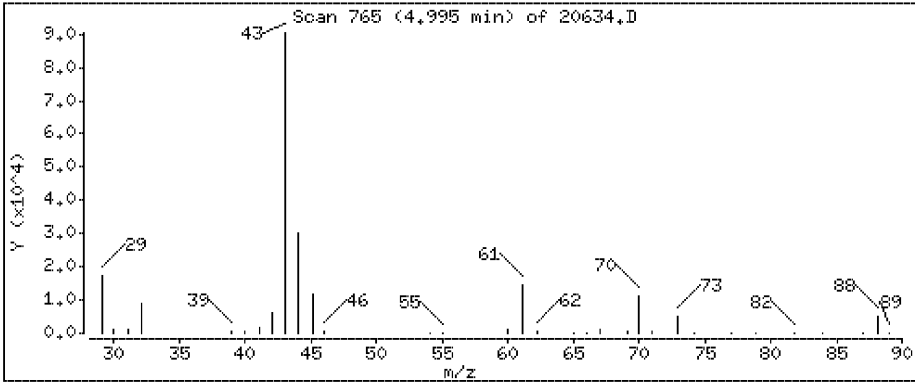
Column diameter: 0.32

27 Methyl Ethyl Ketone

Concentration: 3.41 ppbv

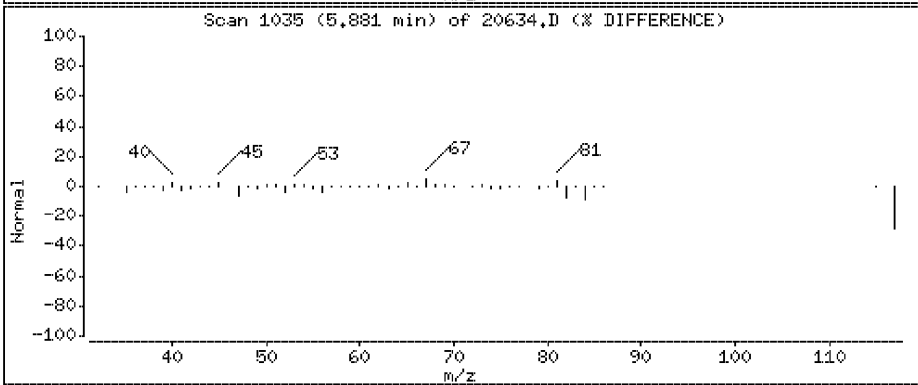
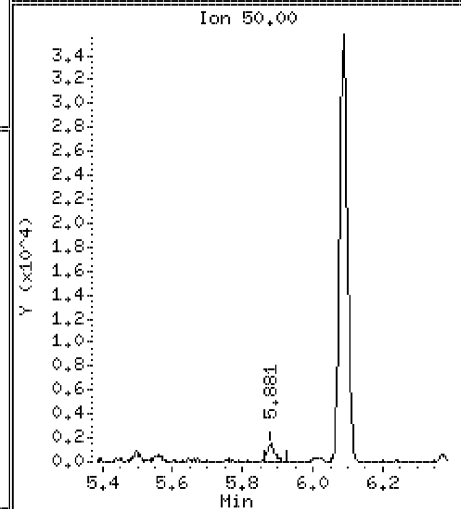
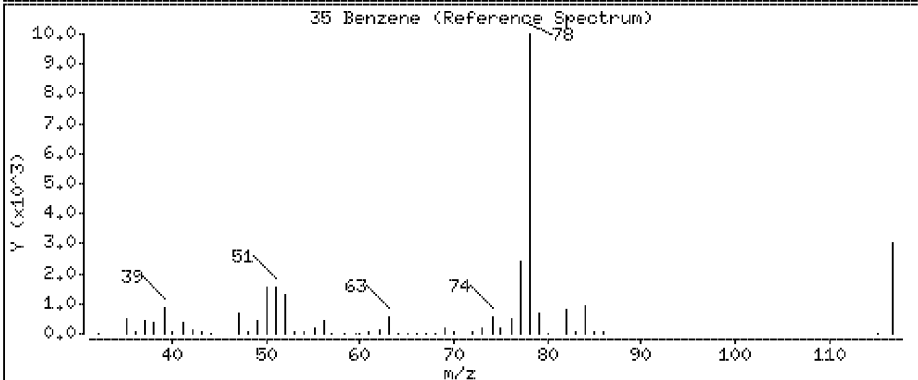
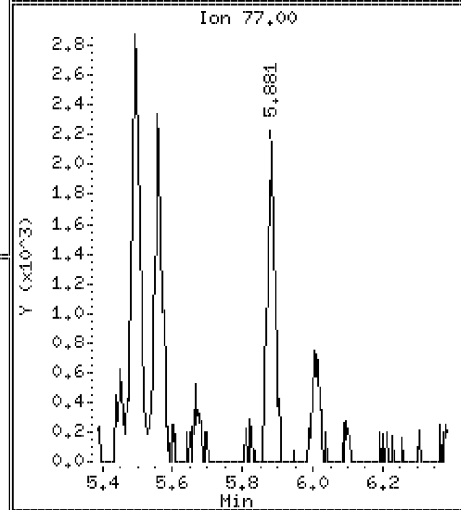
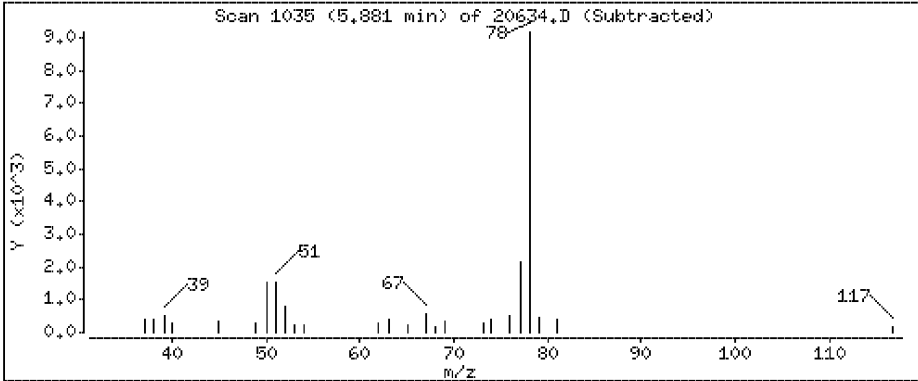
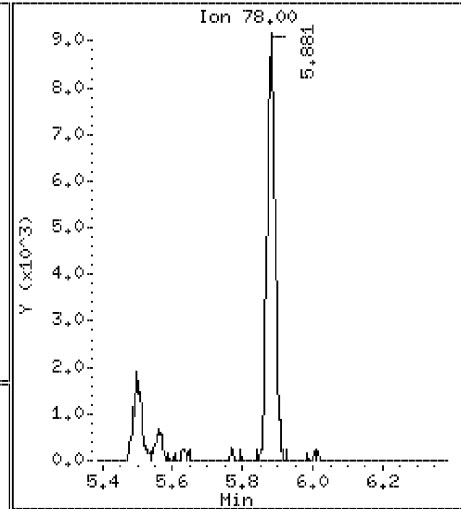
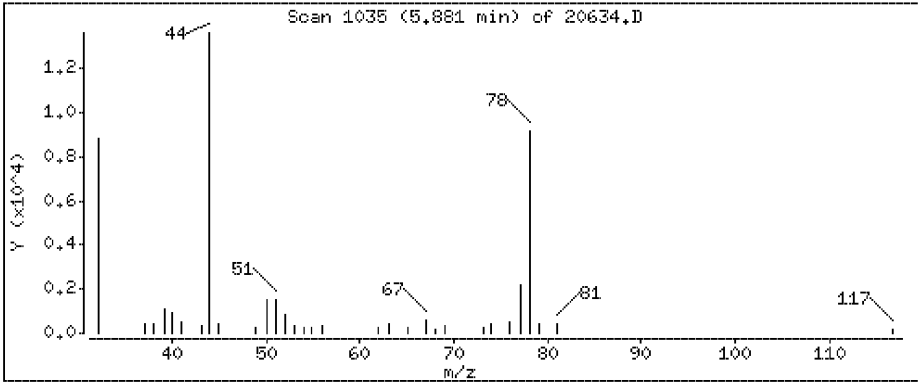






35 Benzene

Concentration: 0.866 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20634.D

Date : 26-JUL-2013 05:34

Client ID:

Instrument: 10airD.i

Sample Info:

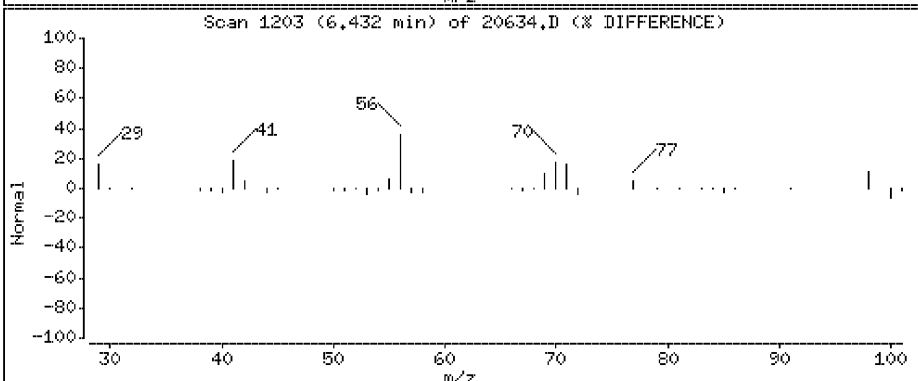
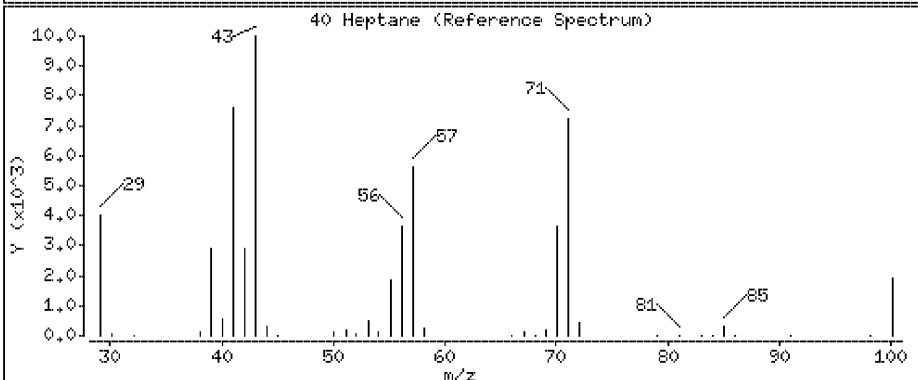
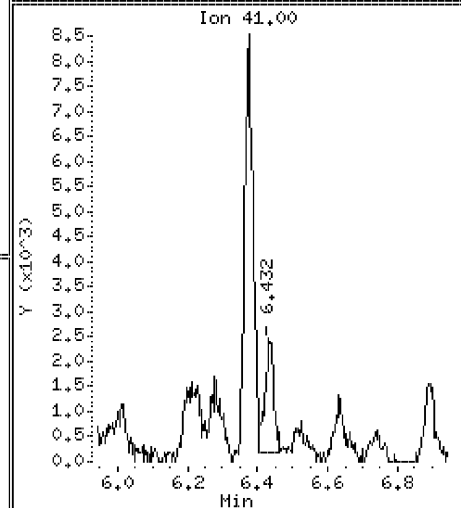
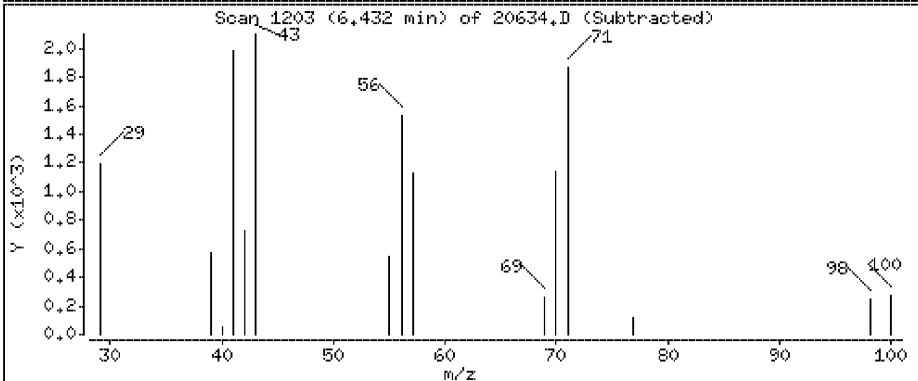
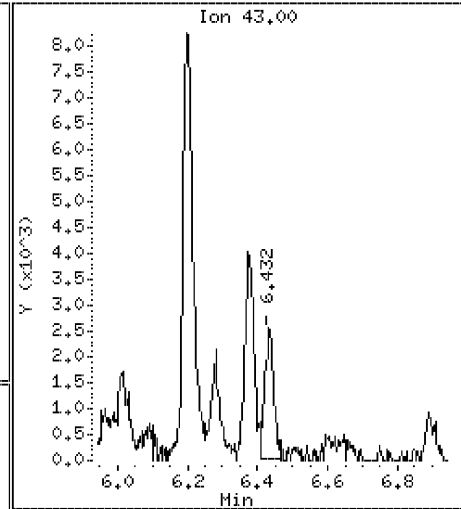
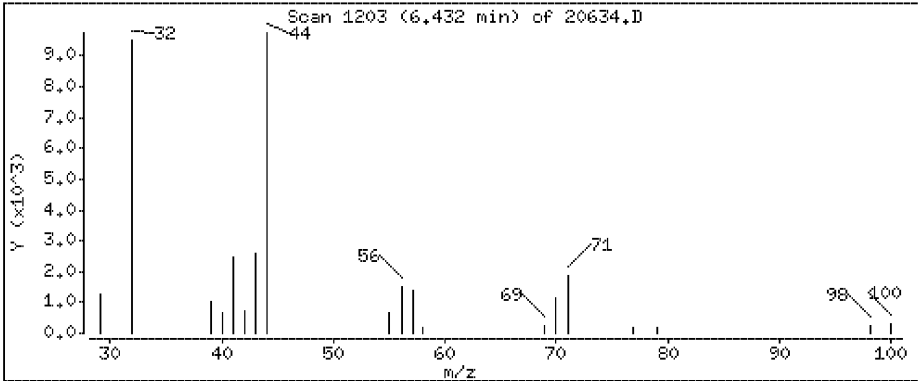
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

40 Heptane

Concentration: 0.877 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20634.D

Date : 26-JUL-2013 05:34

Client ID:

Instrument: 10airD.i

Sample Info:

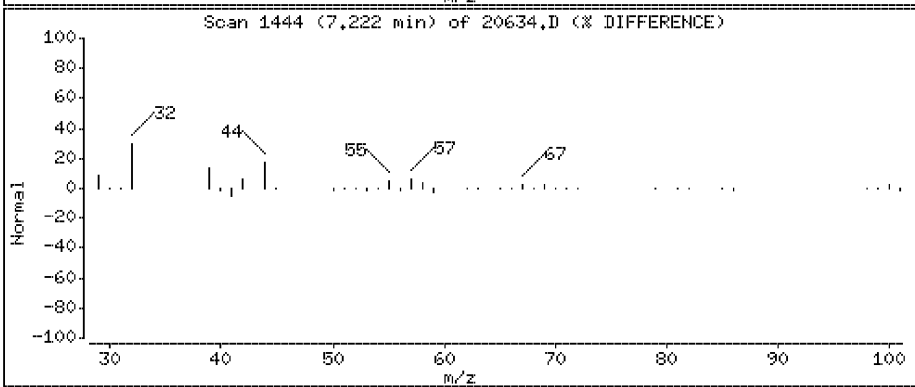
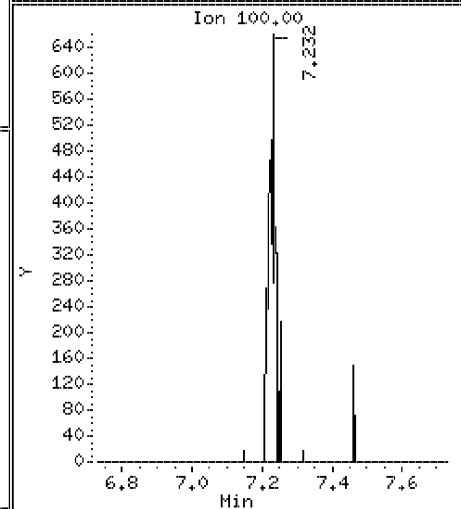
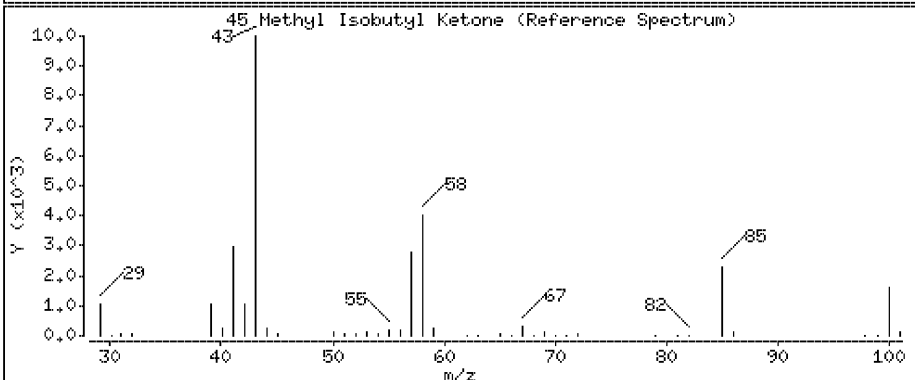
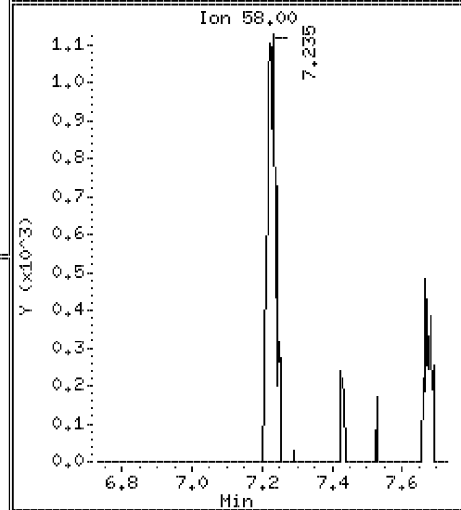
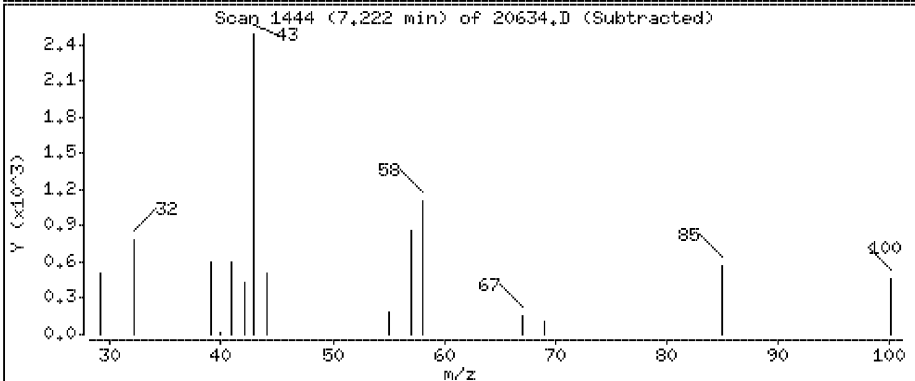
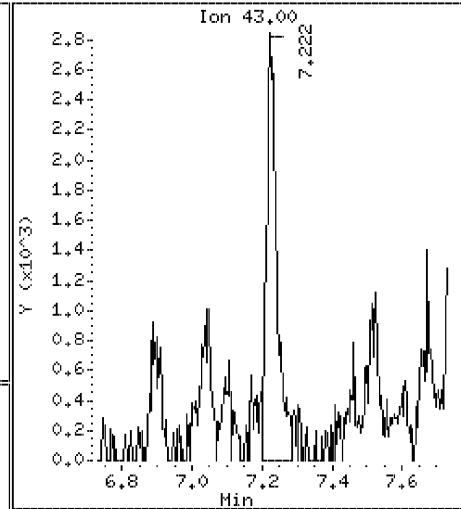
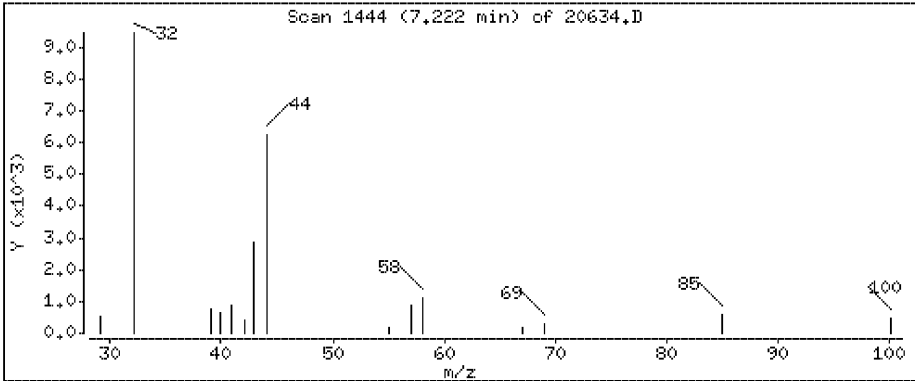
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

45 Methyl Isobutyl Ketone

Concentration: 0.785 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20634.D

Date : 26-JUL-2013 05:34

Client ID:

Instrument: 10airD.i

Sample Info:

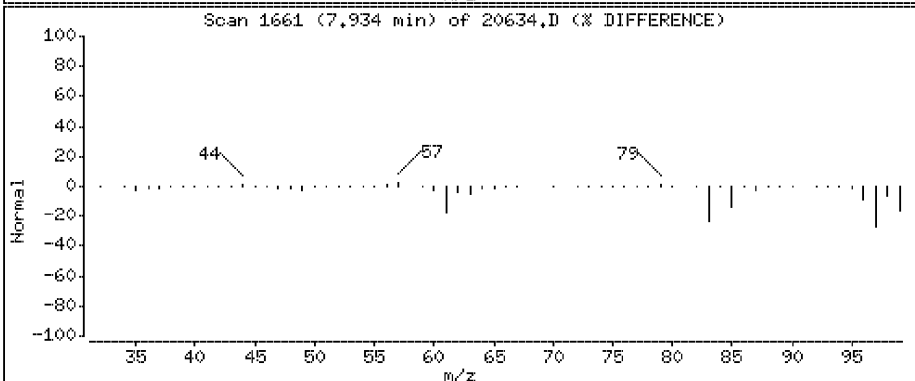
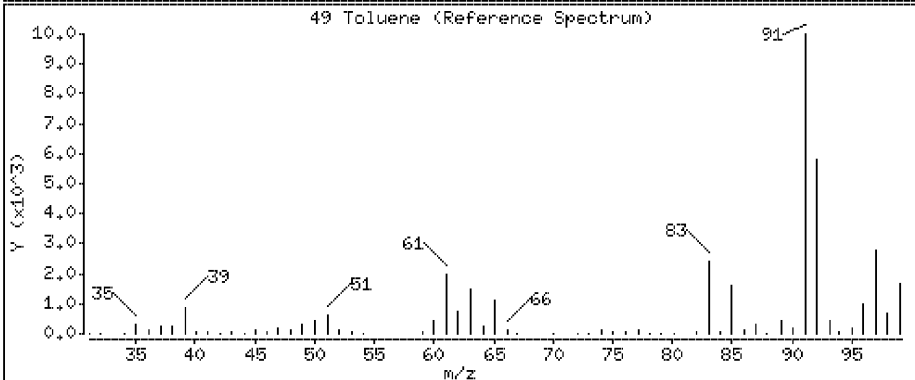
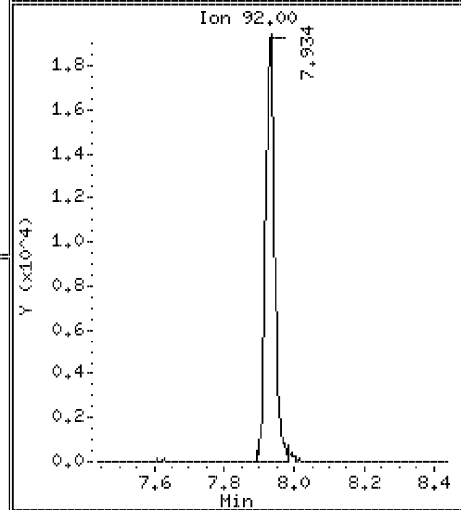
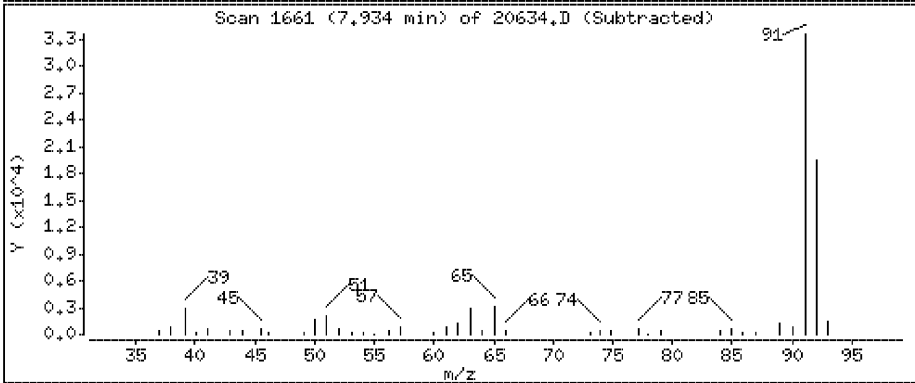
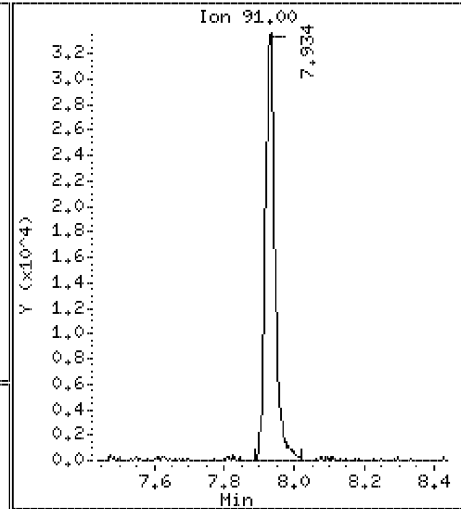
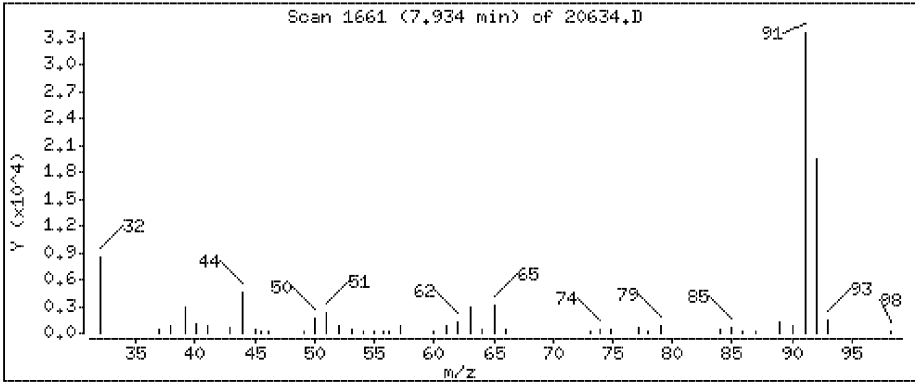
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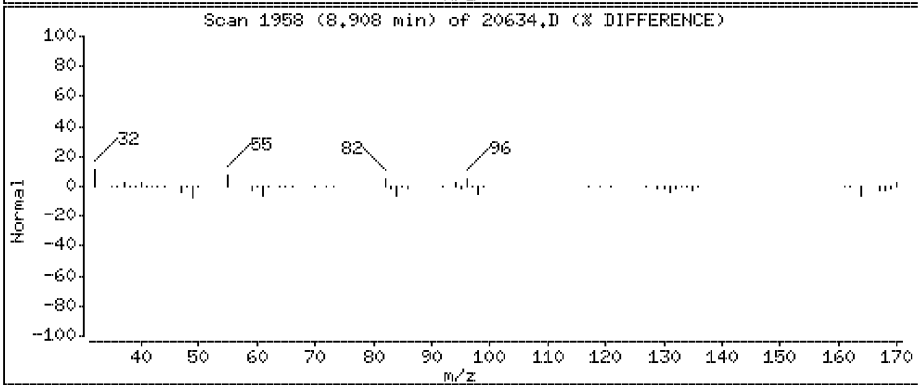
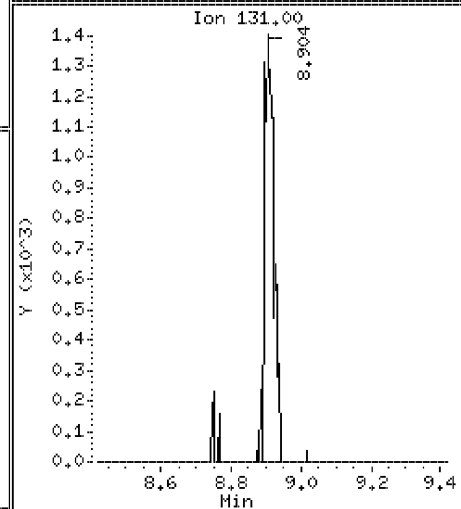
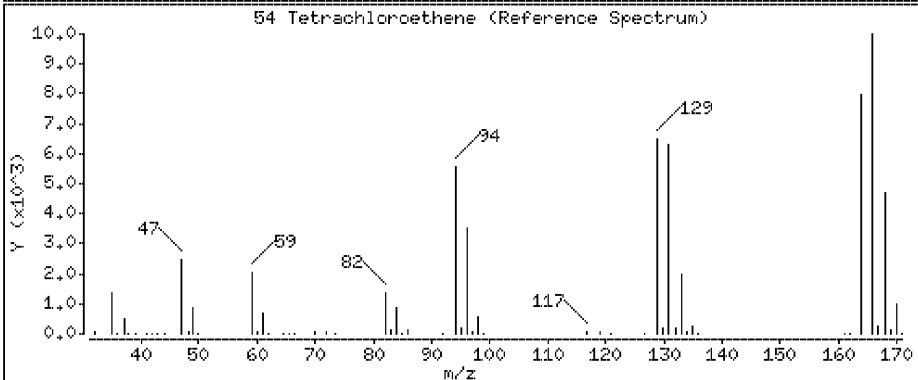
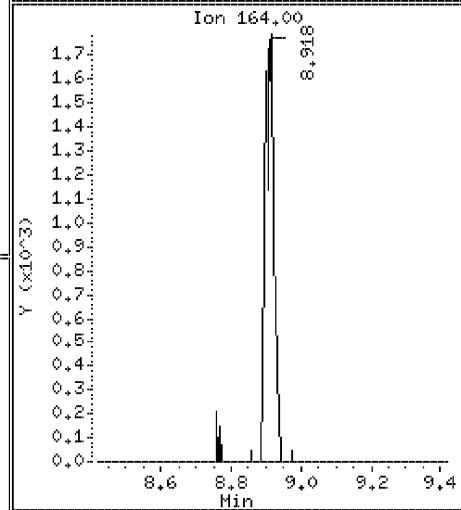
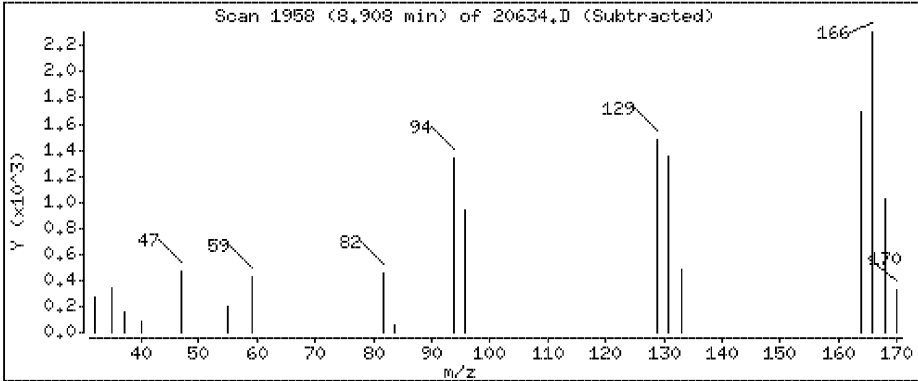
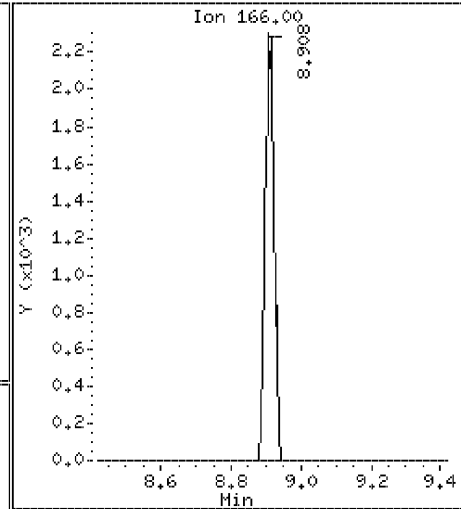
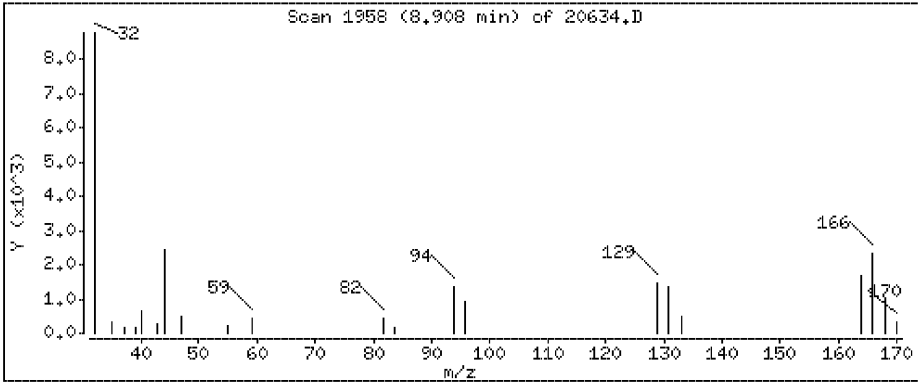
Column phase: J&W DB-5

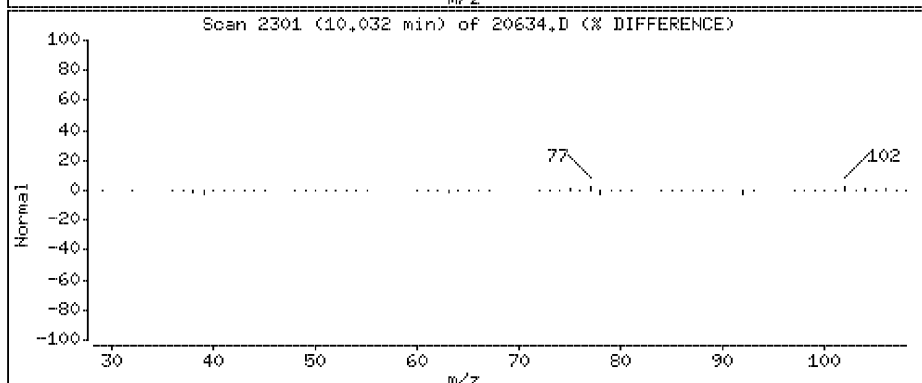
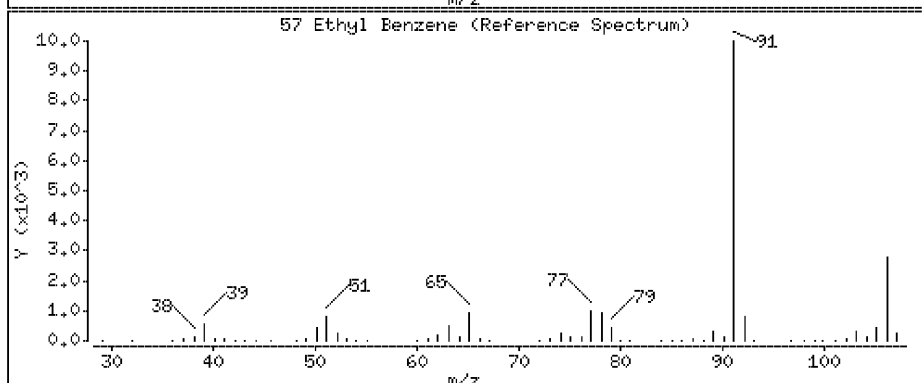
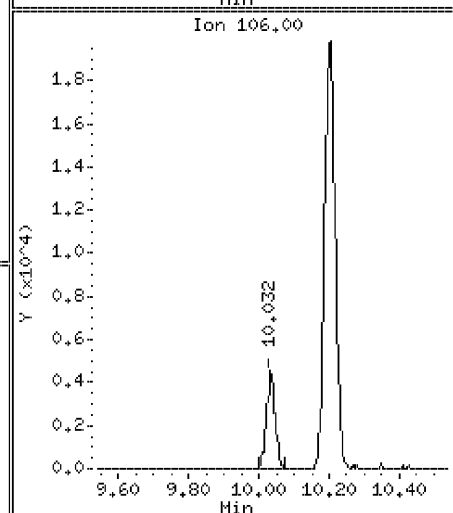
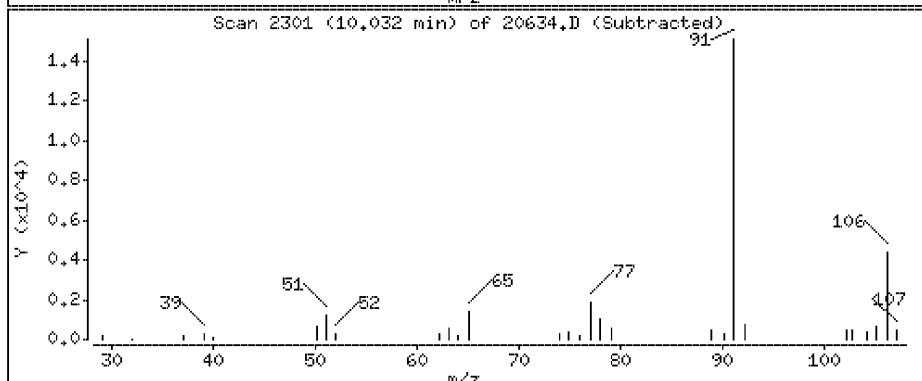
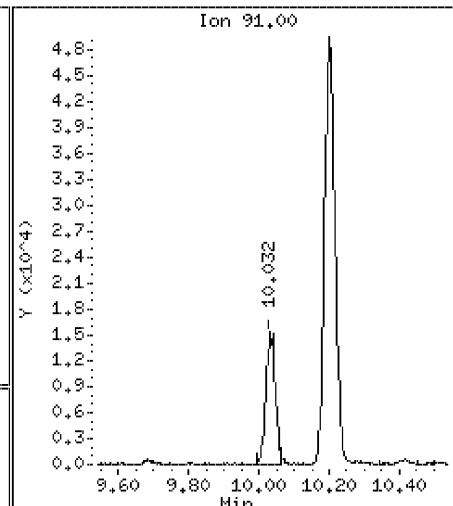
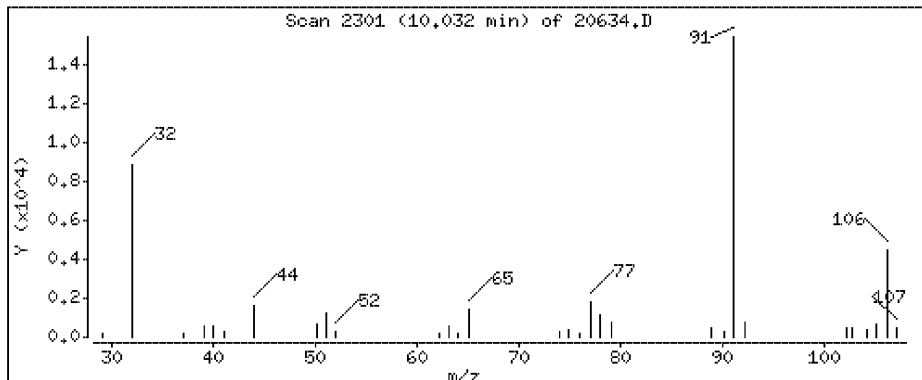
Column diameter: 0.32

49 Toluene

Concentration: 1.62 ppbv







Data File: \\192.168.10.12\chem\10airD,1\072513,b\20634.D

Date : 26-JUL-2013 05:34

Client ID:

Instrument: 10airD.i

Sample Info:

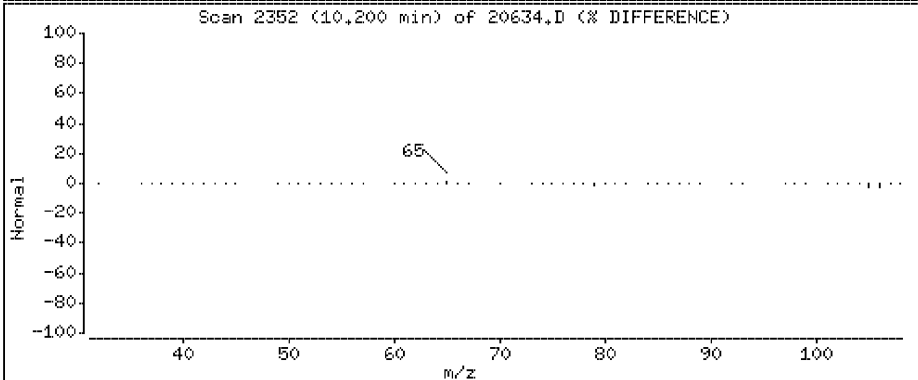
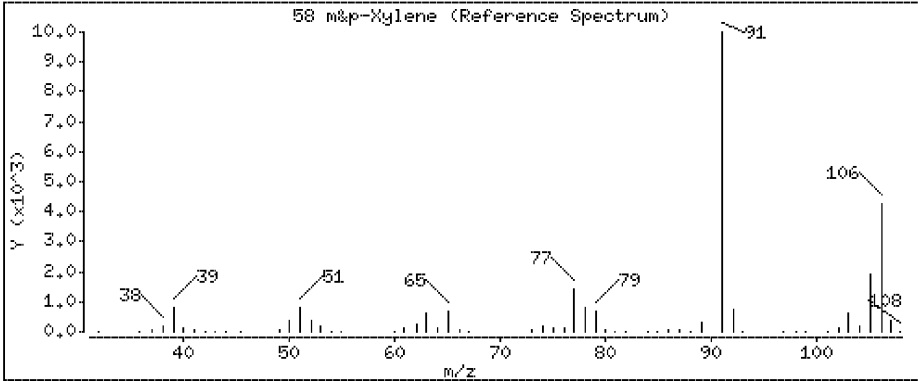
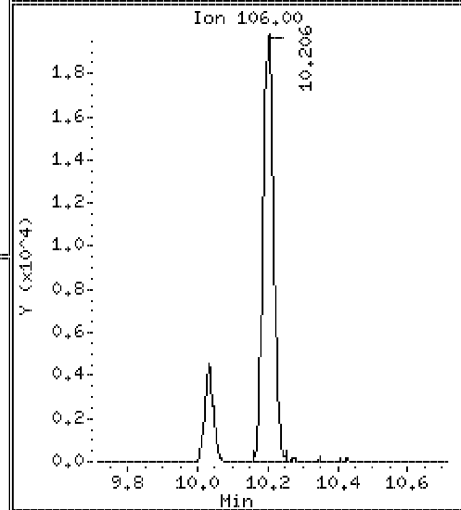
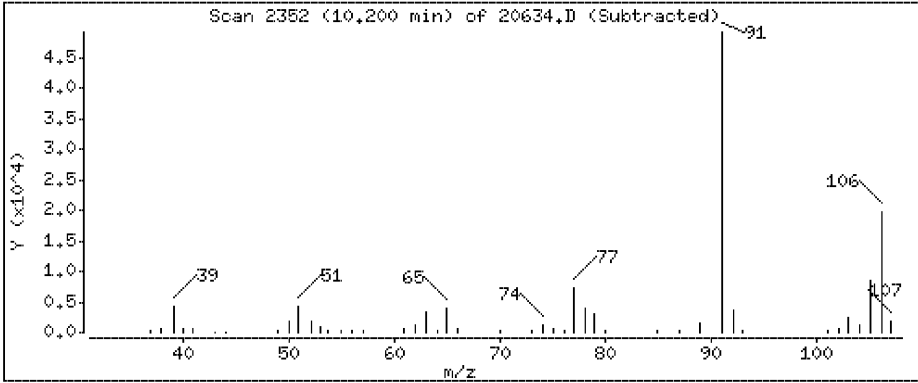
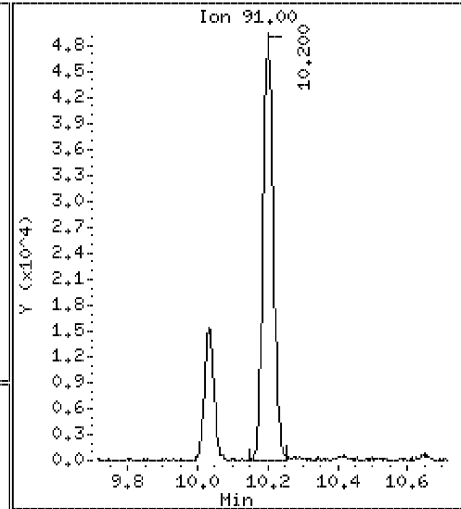
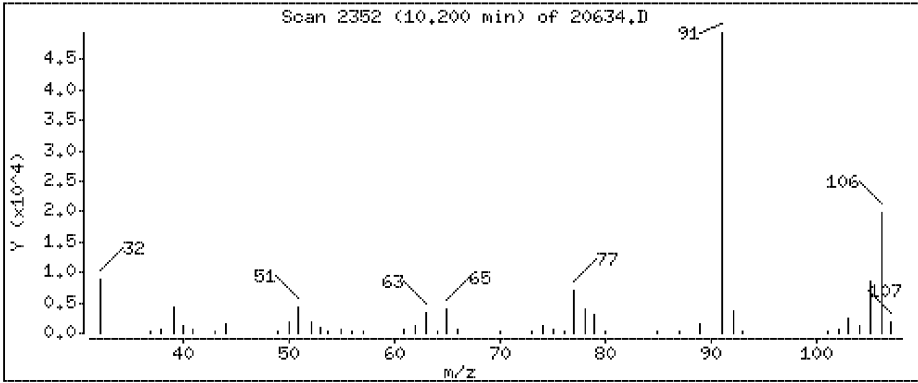
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

58 m&p-Xylene

Concentration: 2.10 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20634.D

Date : 26-JUL-2013 05:34

Client ID:

Instrument: 10airD.i

Sample Info:

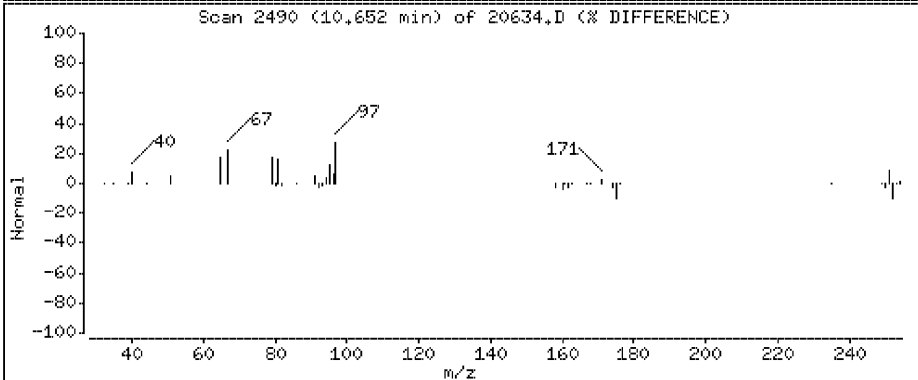
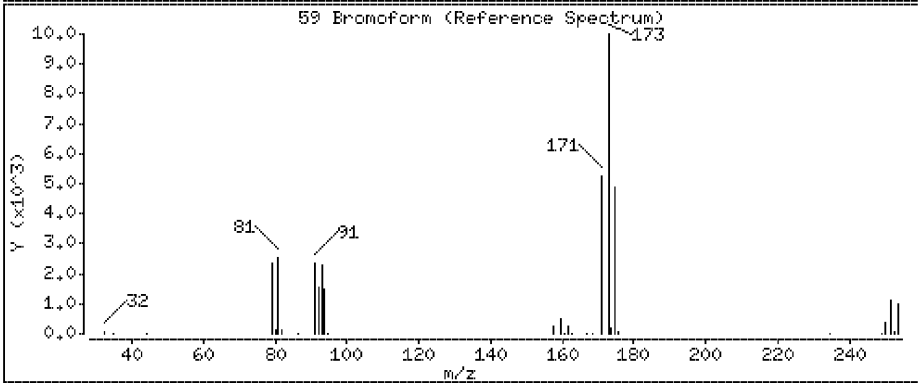
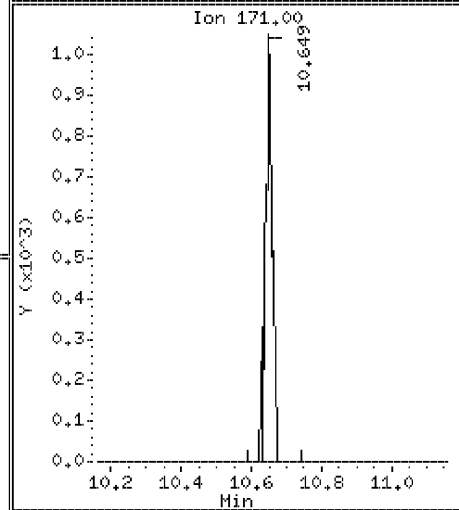
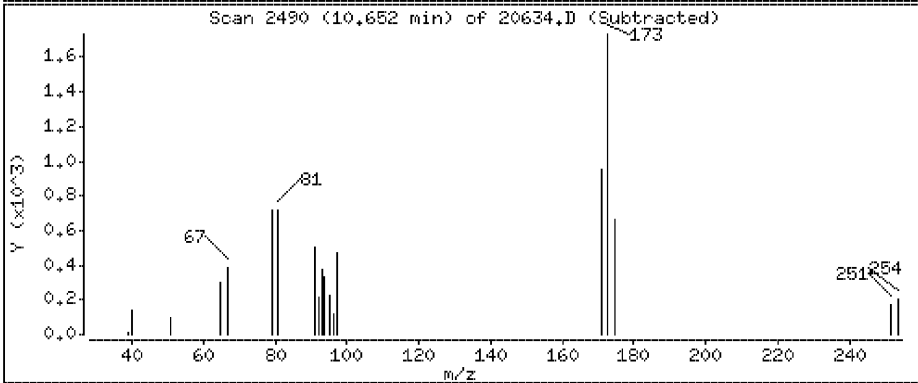
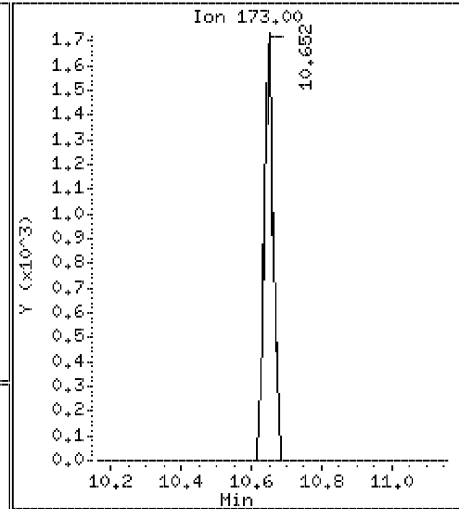
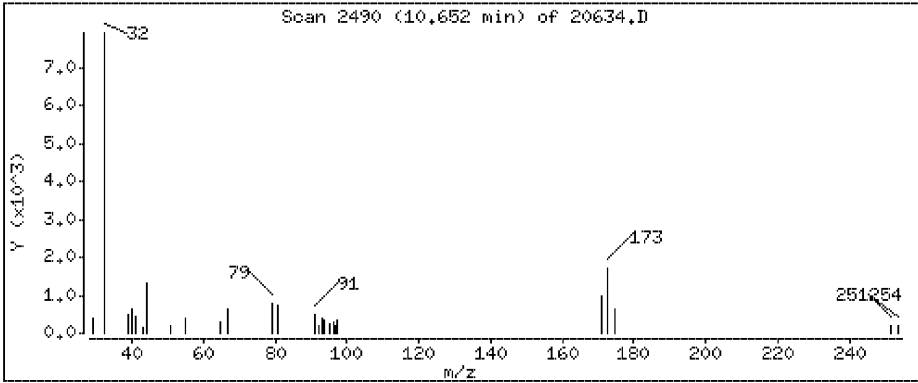
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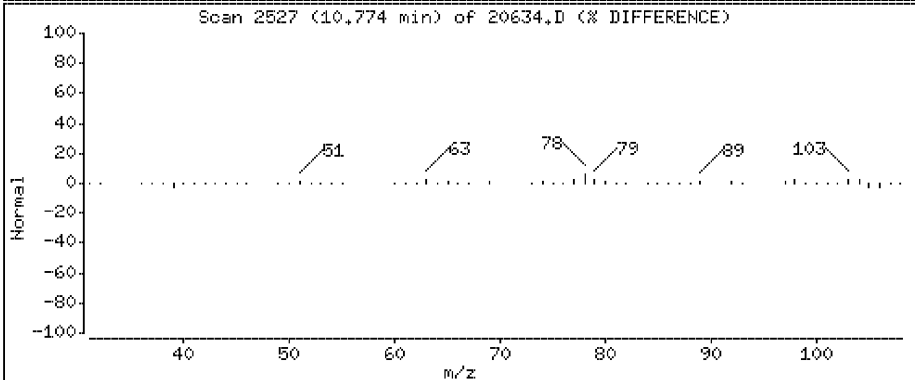
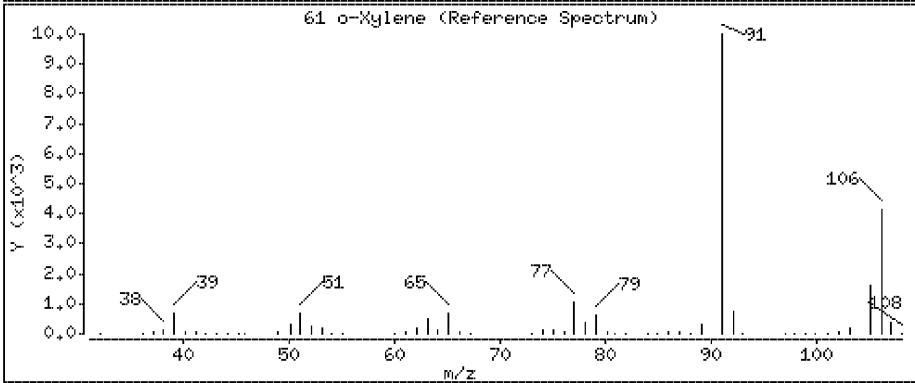
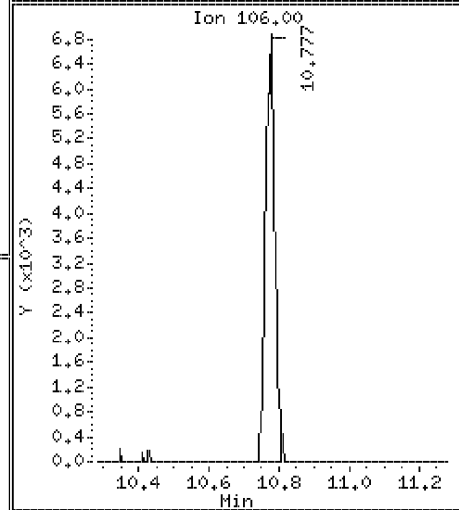
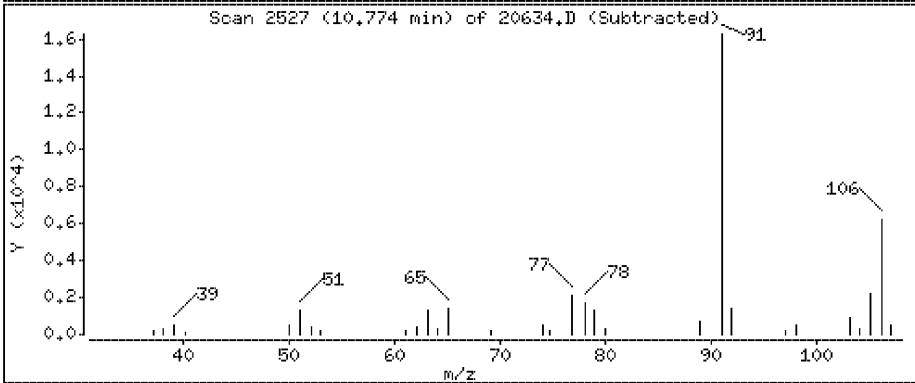
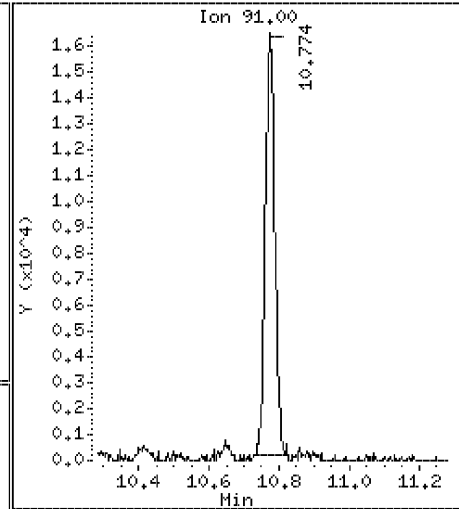
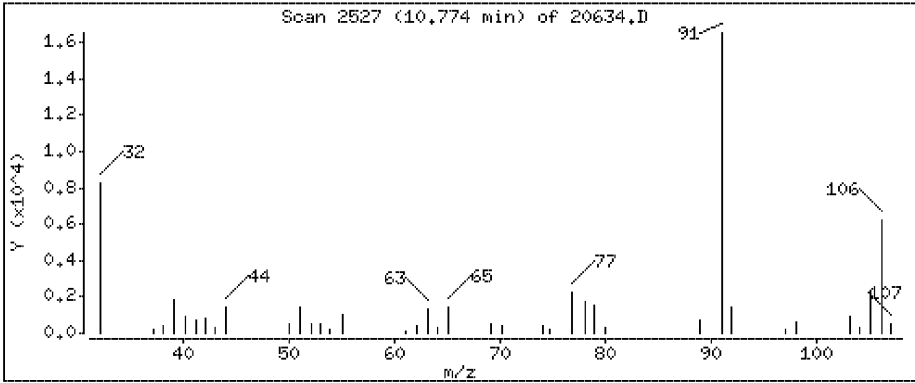
Column phase: J&W DB-5

Column diameter: 0.32

59 Bromoform

Concentration: 0.445 ppbv





Data File: \\192.168.10.12\chem\10airD.i\072513,b\20634.D

Date : 26-JUL-2013 05:34

Client ID:

Instrument: 10airD.i

Sample Info:

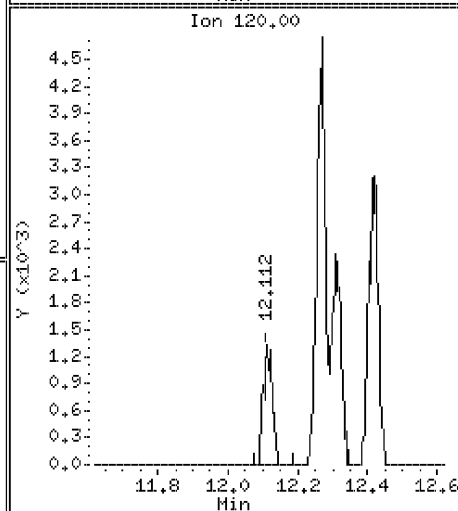
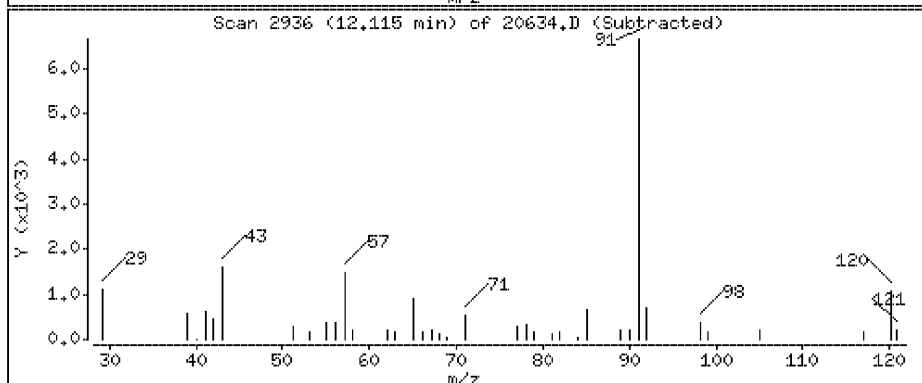
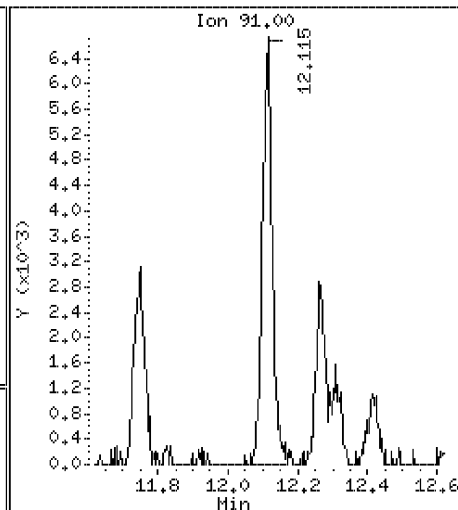
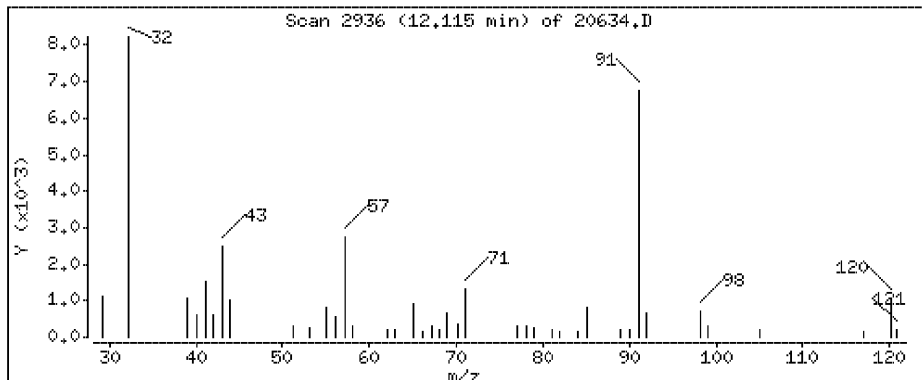
Operator: DR1

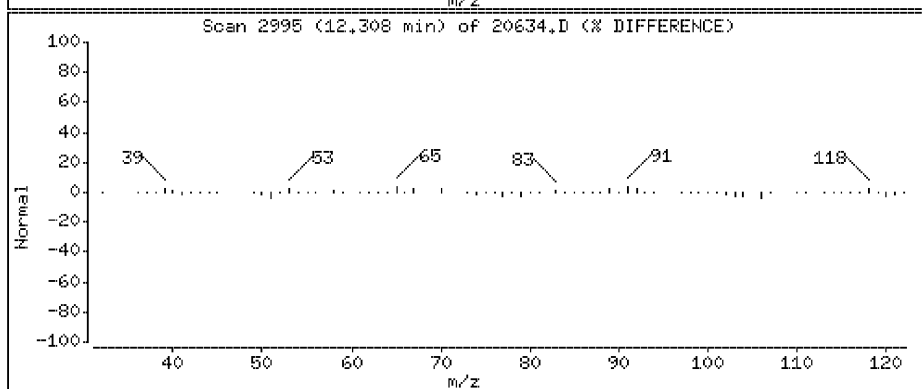
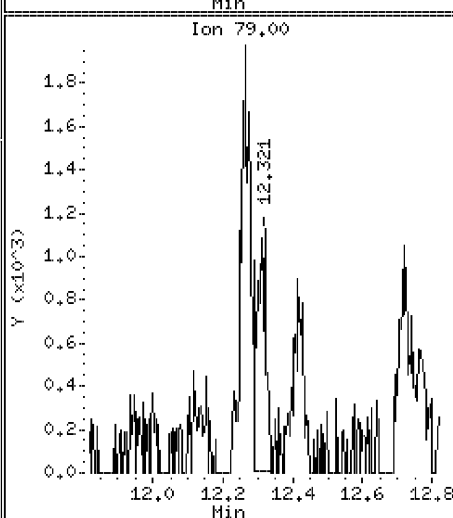
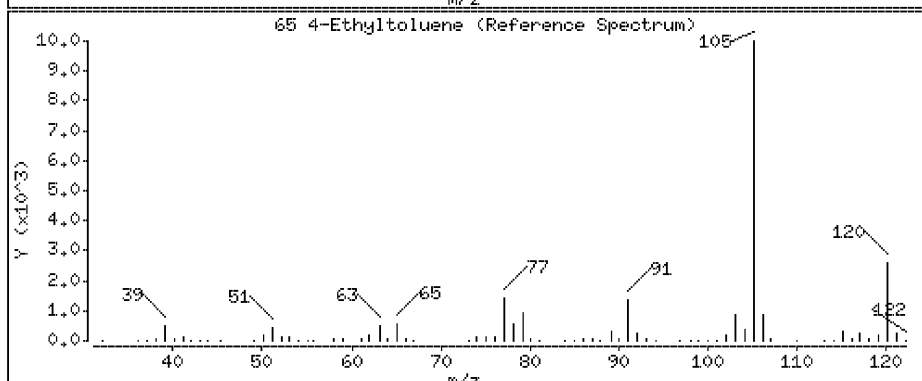
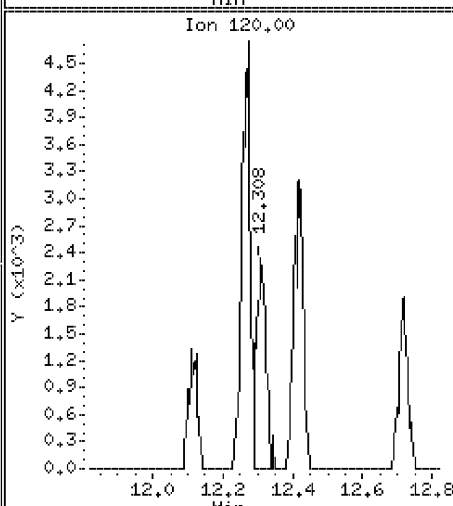
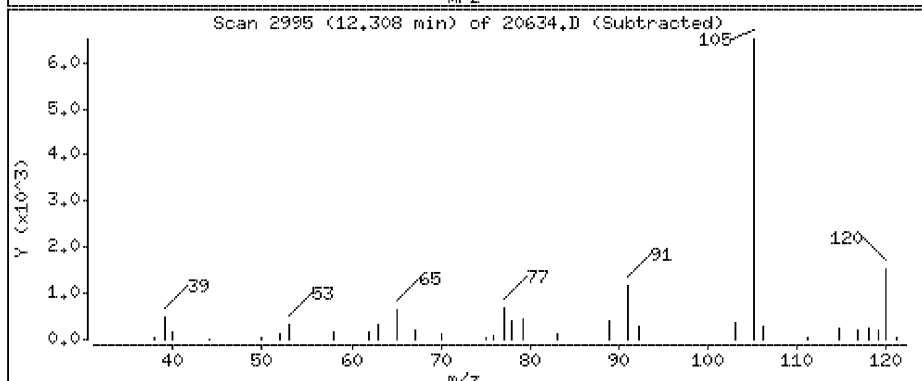
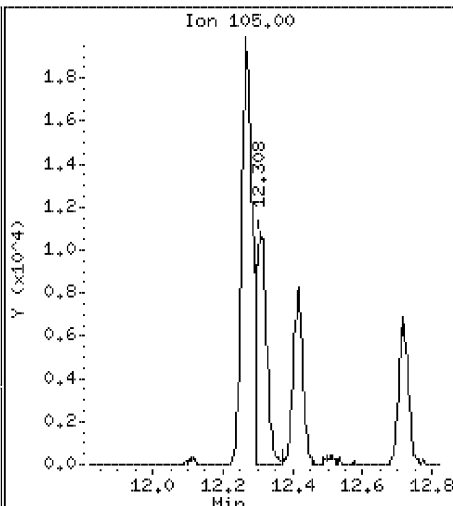
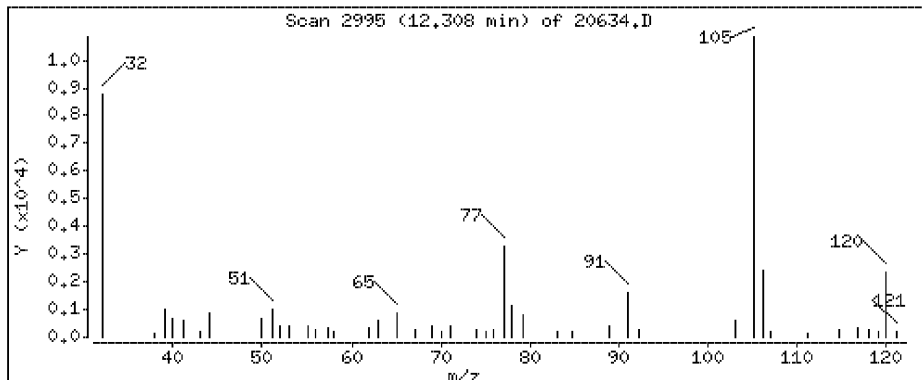
Column phase: J&W DB-5

Column diameter: 0.32

64 N-Propylbenzene

Concentration: 0.574 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20634.D

Date : 26-JUL-2013 05:34

Client ID:

Instrument: 10airD.i

Sample Info:

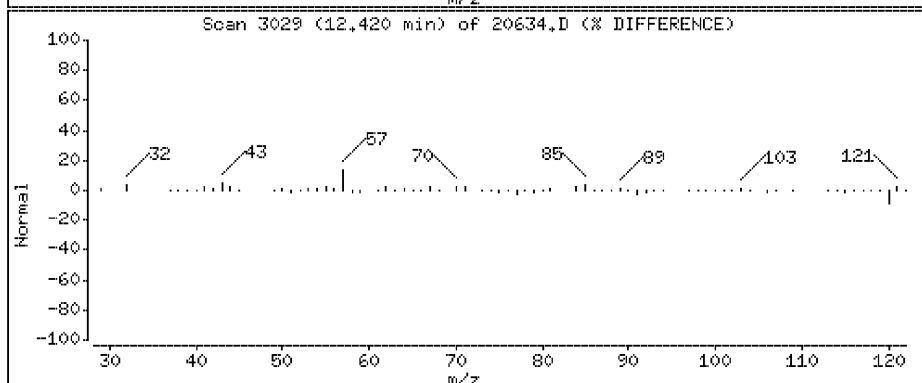
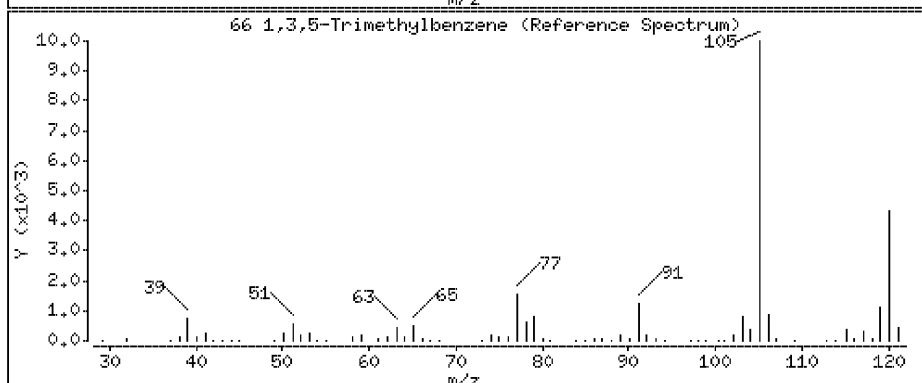
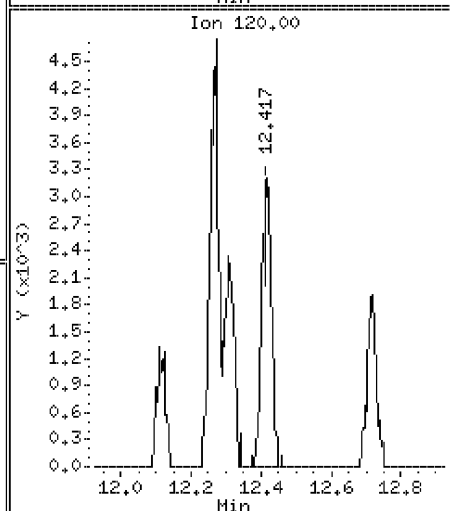
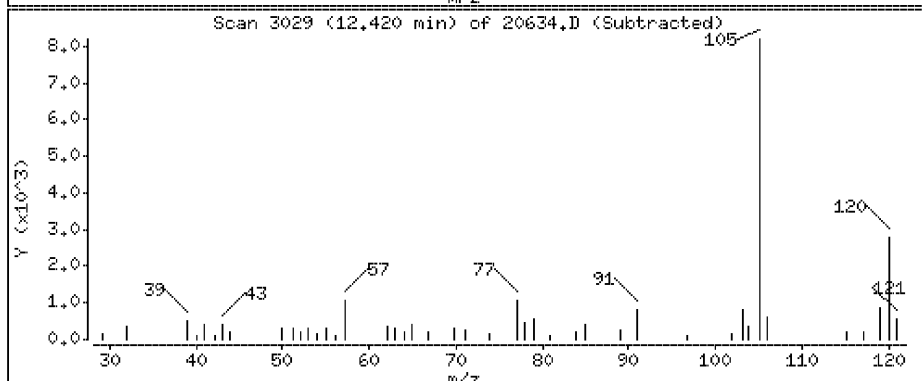
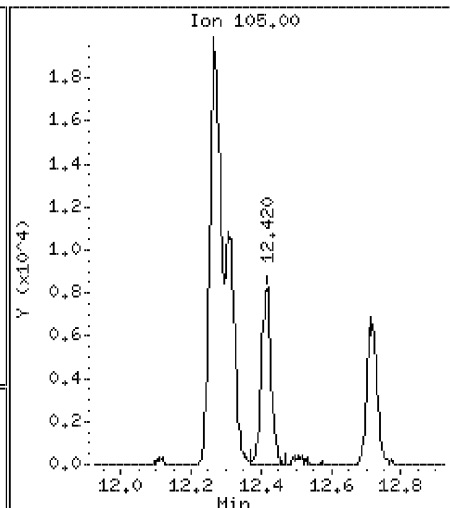
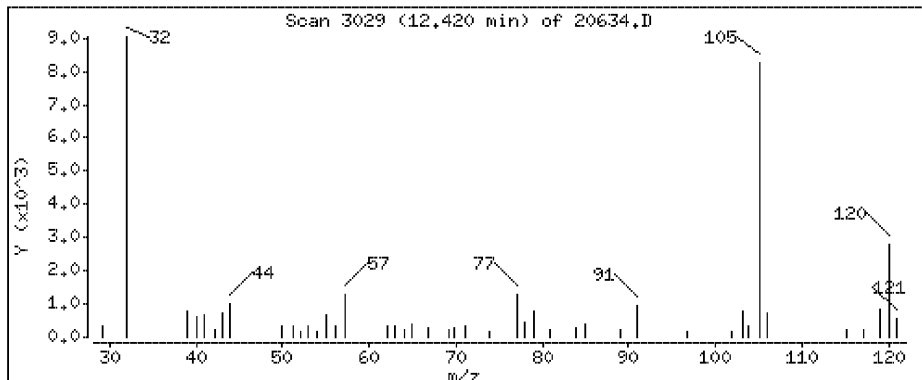
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

66 1,3,5-Trimethylbenzene

Concentration: 0.685 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20634.D

Date : 26-JUL-2013 05:34

Client ID:

Instrument: 10airD.i

Sample Info:

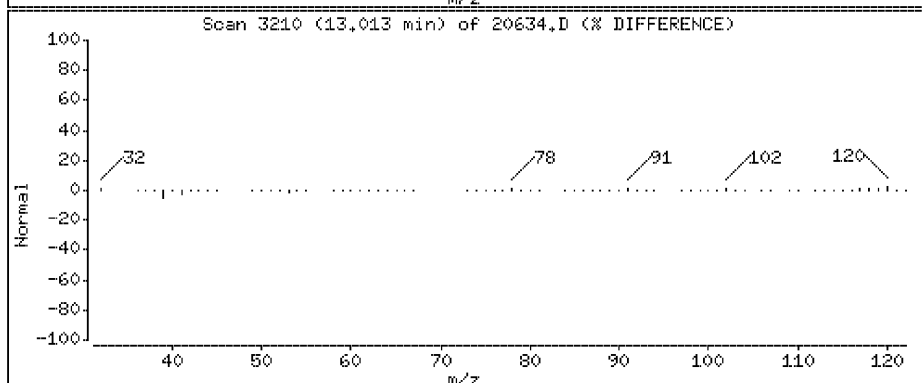
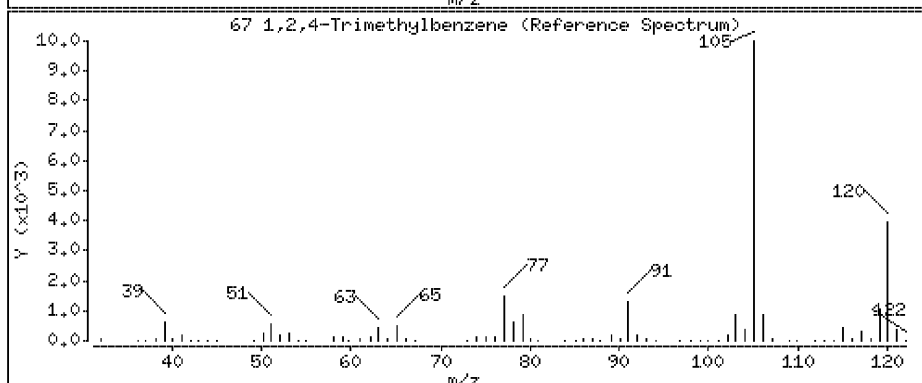
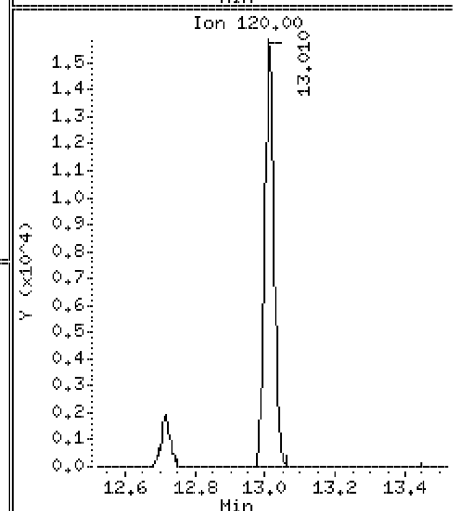
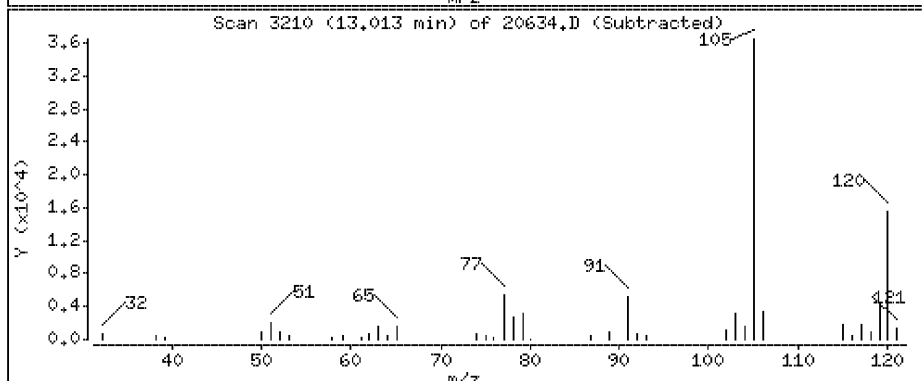
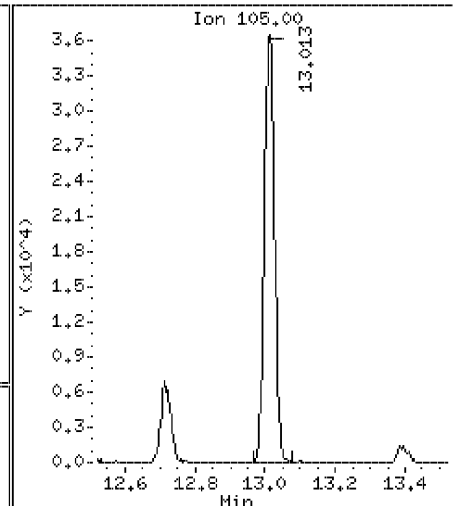
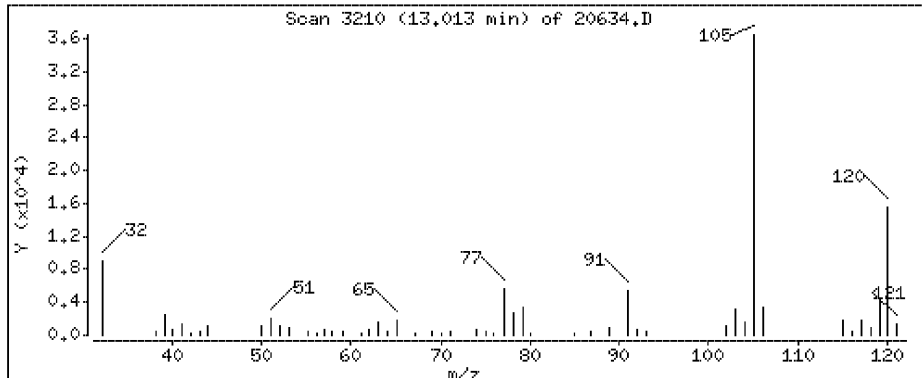
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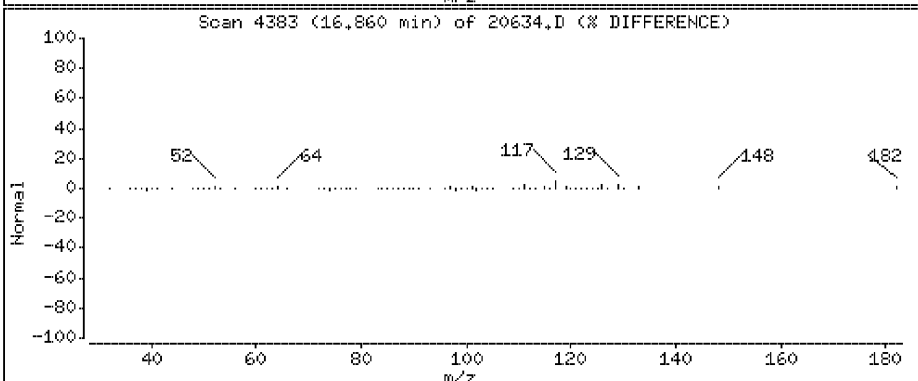
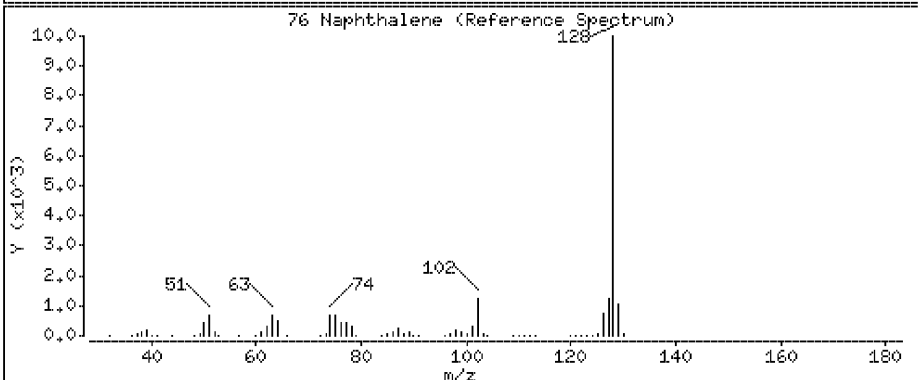
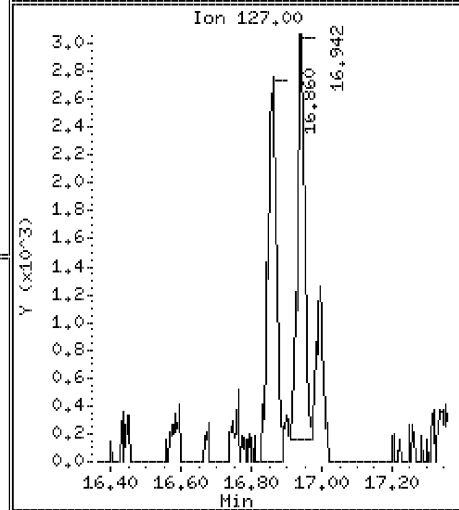
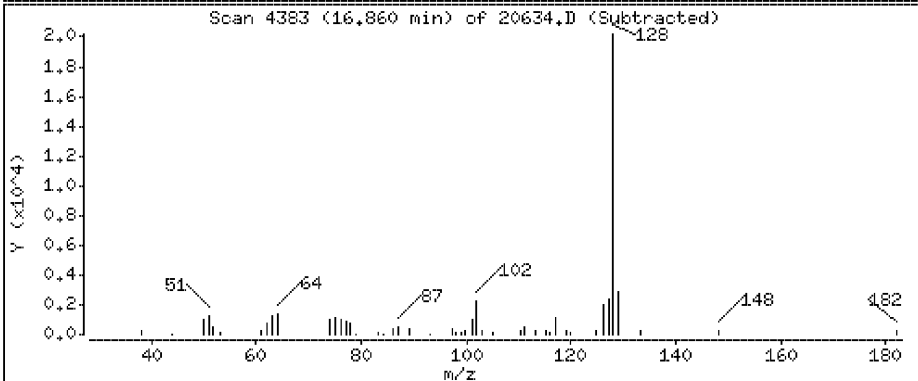
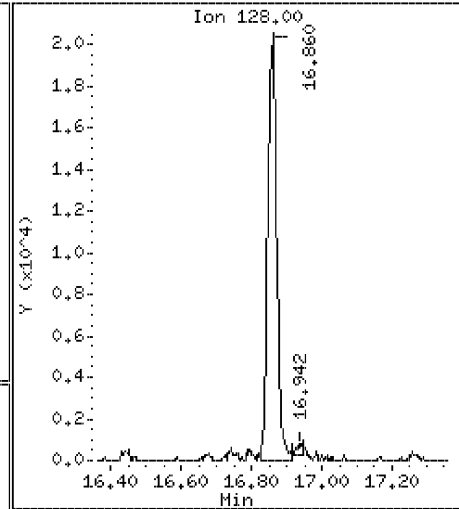
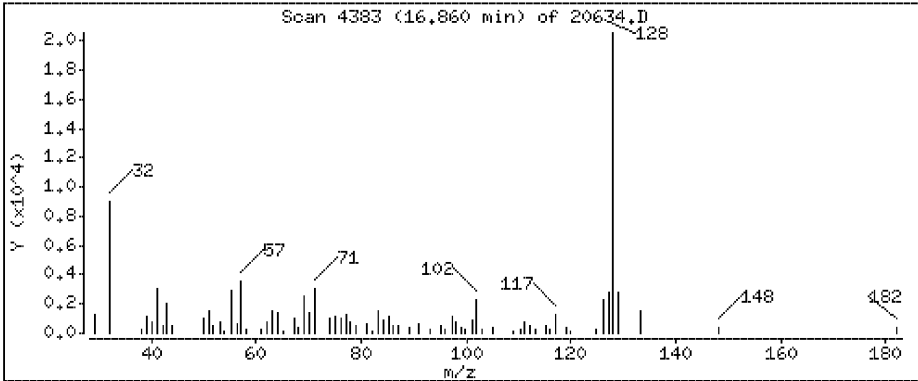
Column phase: J&W DB-5

Column diameter: 0.32

67 1,2,4-Trimethylbenzene

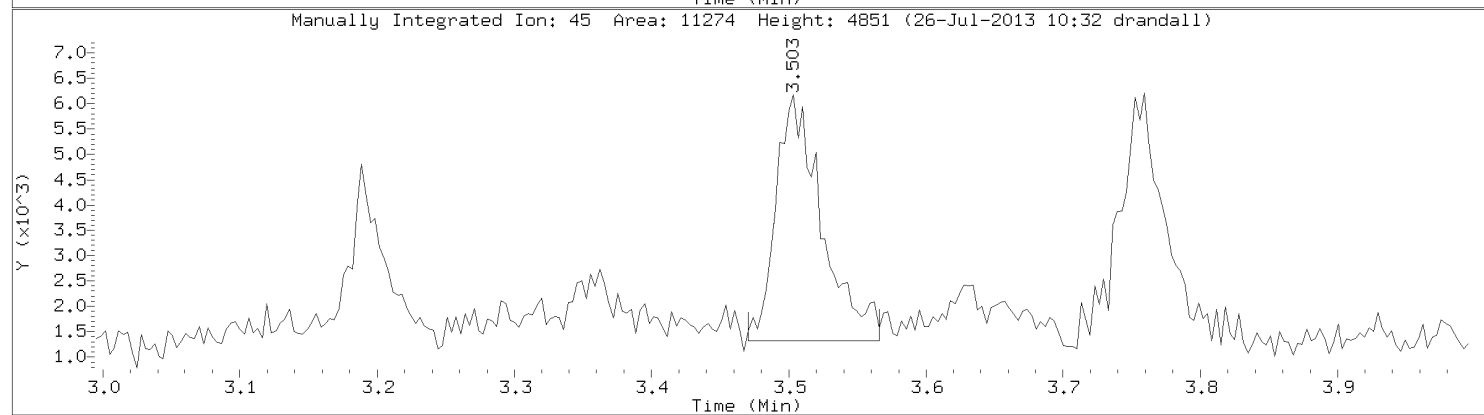
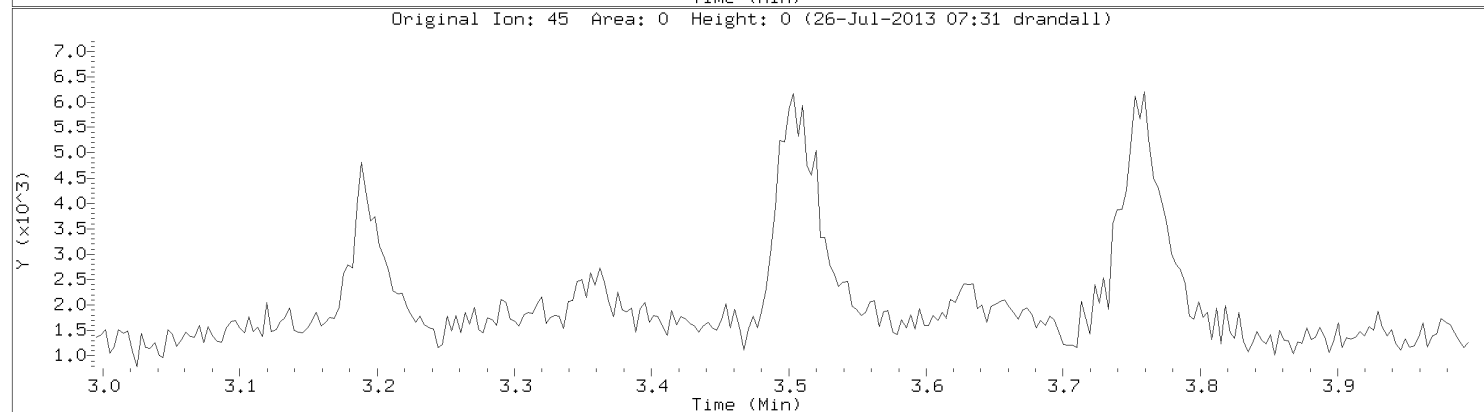
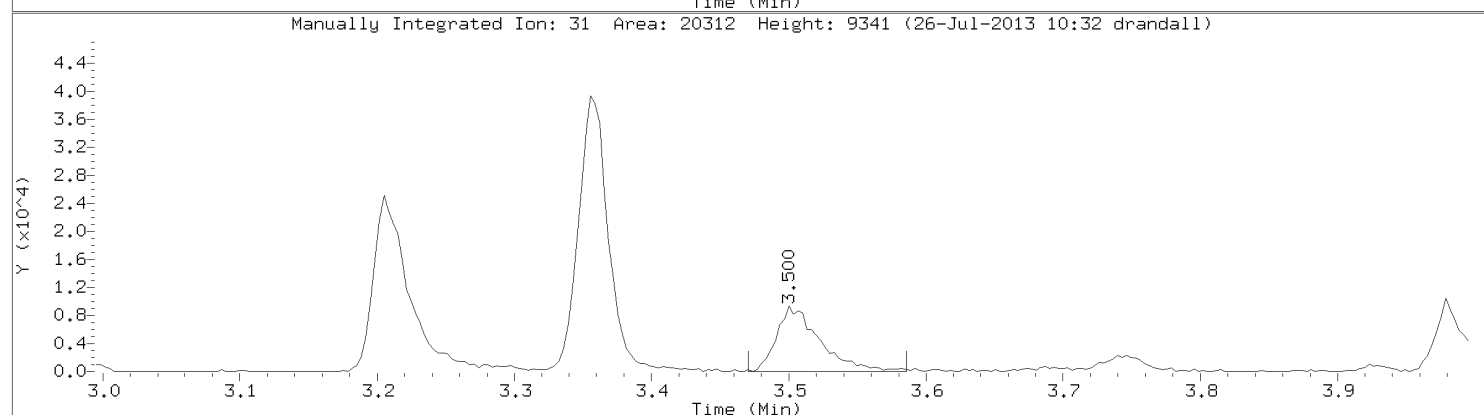
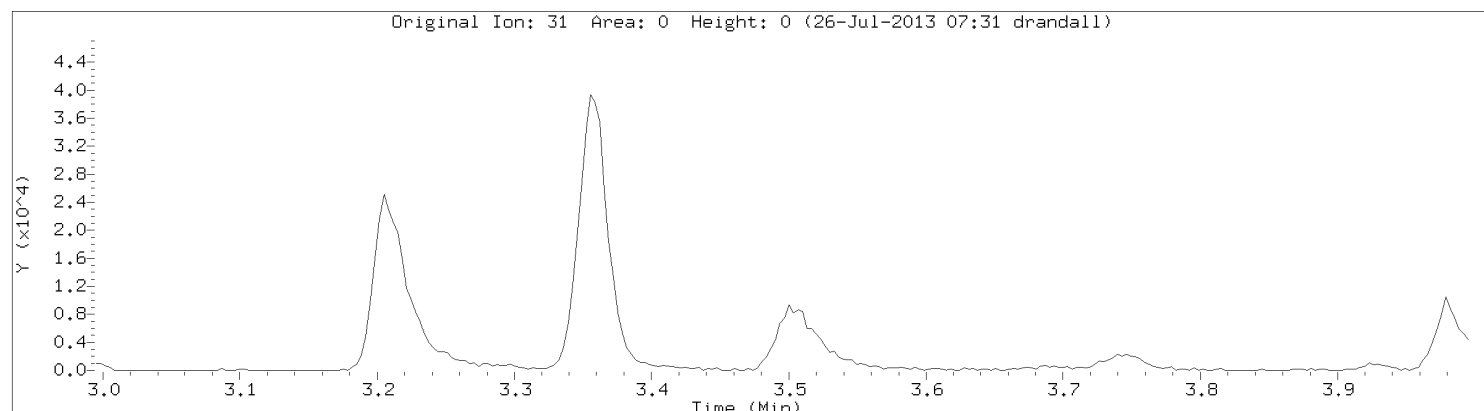
Concentration: 1.76 ppbv





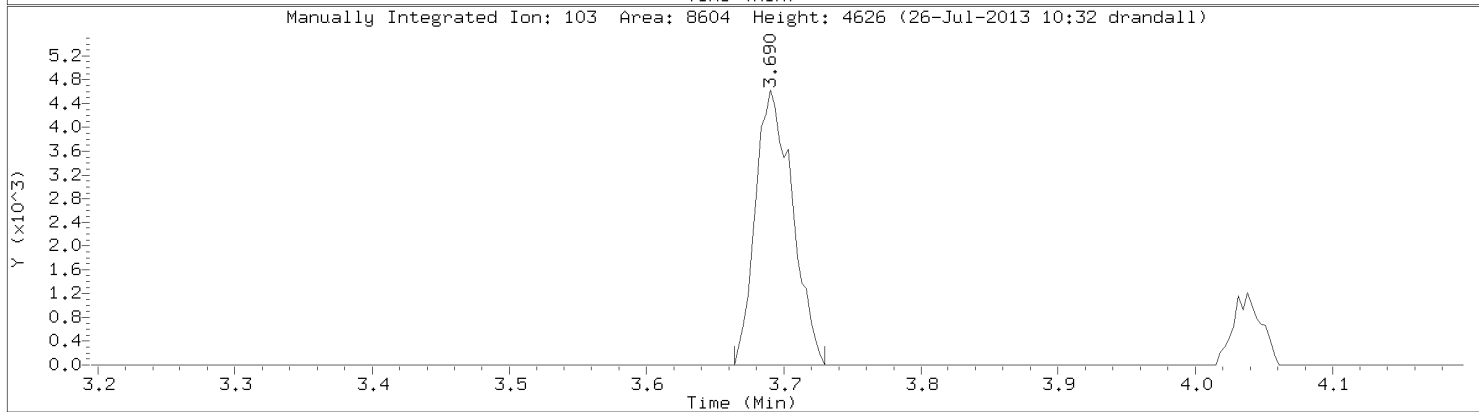
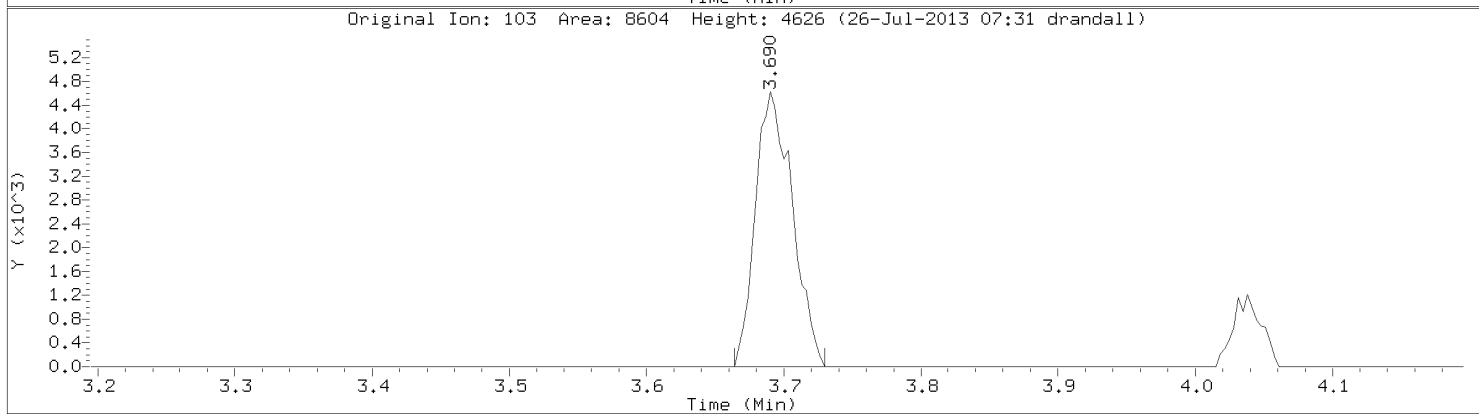
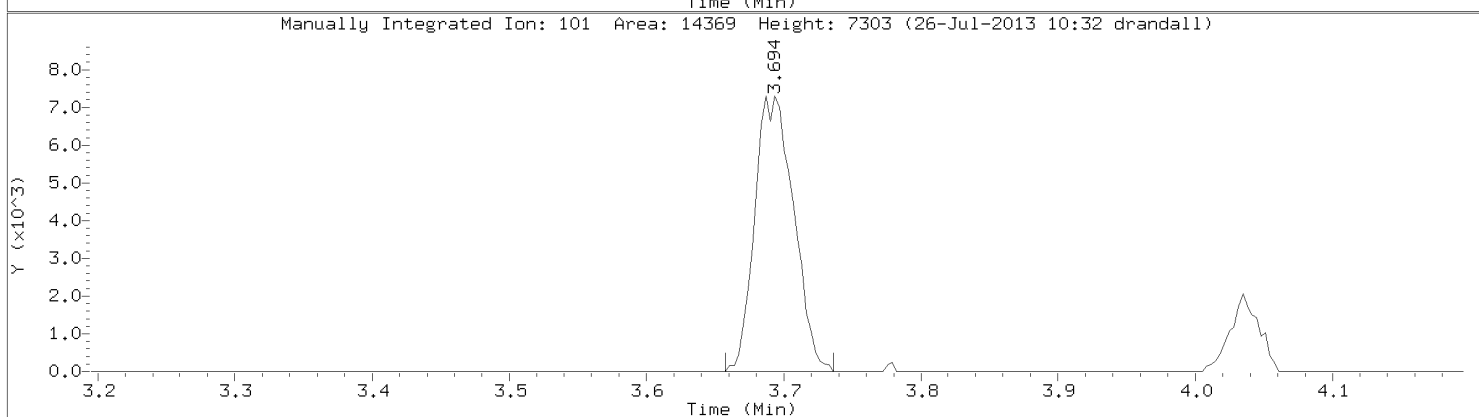
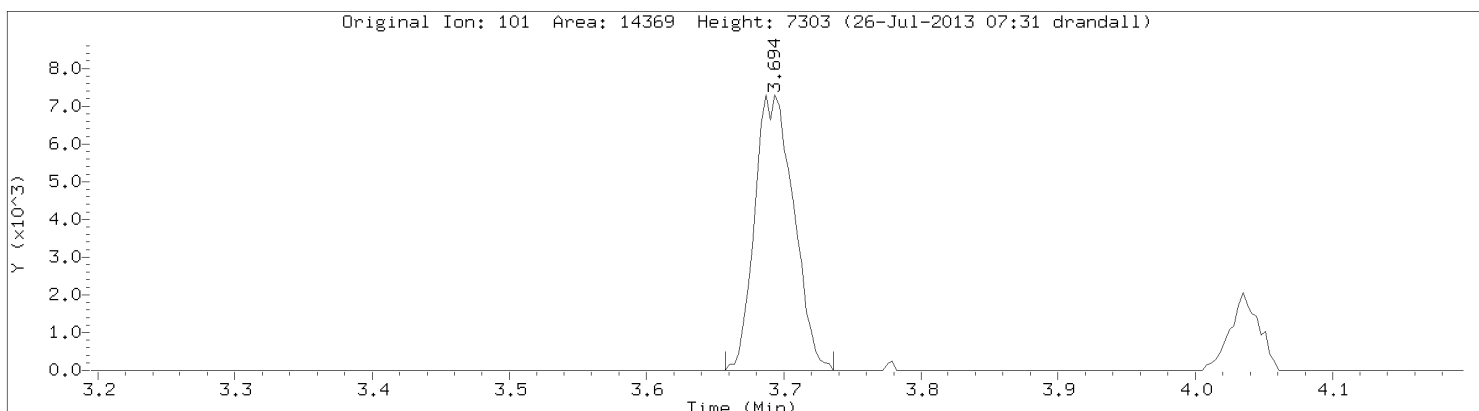
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Injection Date: 26-JUL-2013 05:34
Instrument: 10airD.i
Lab Sample ID: 10236207002

Compound: Ethanol
CAS Number: 64-17-5

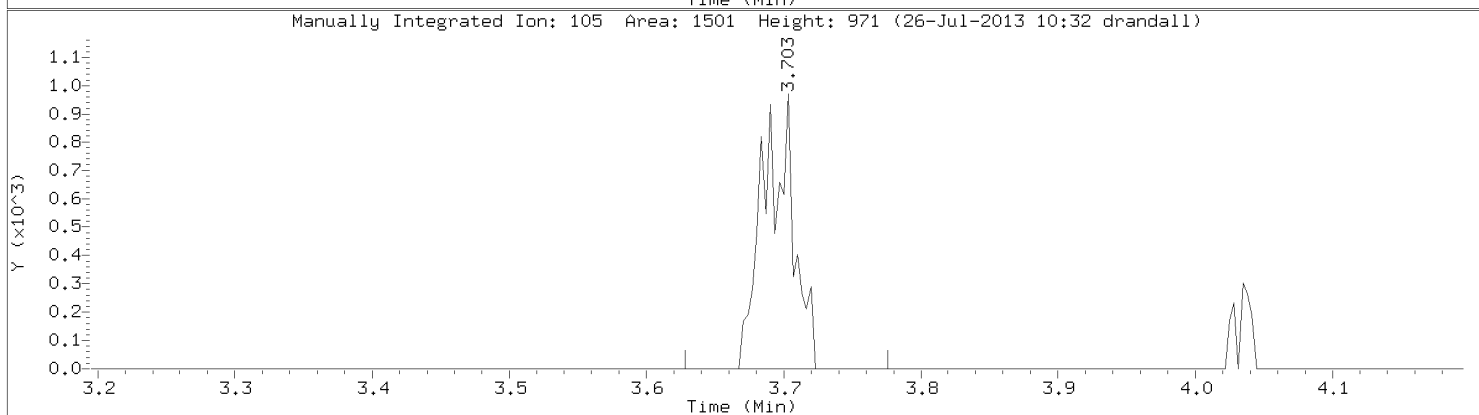
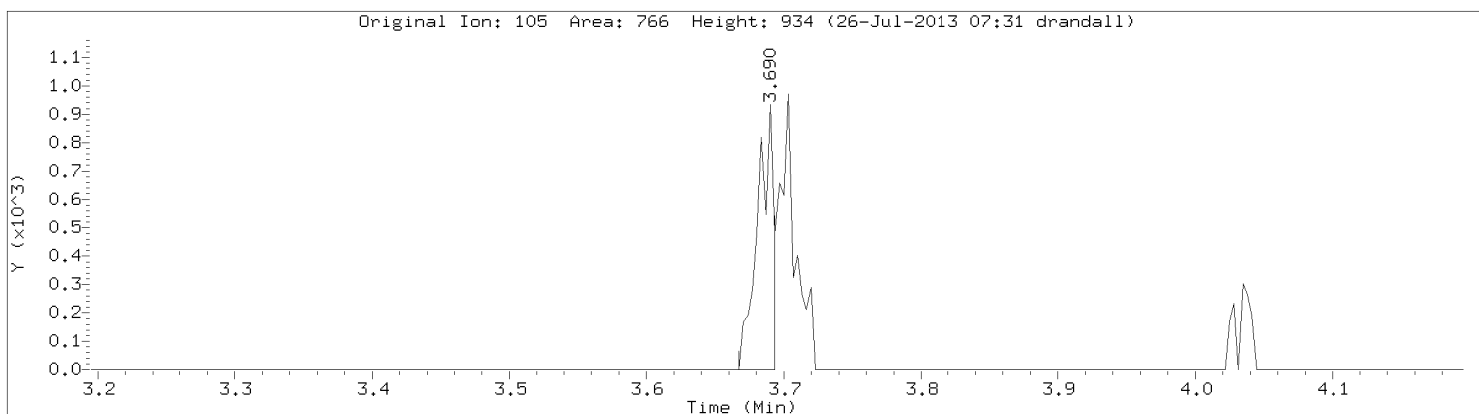


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Injection Date: 26-JUL-2013 05:34
Instrument: 10airD.i
Lab Sample ID: 10236207002

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

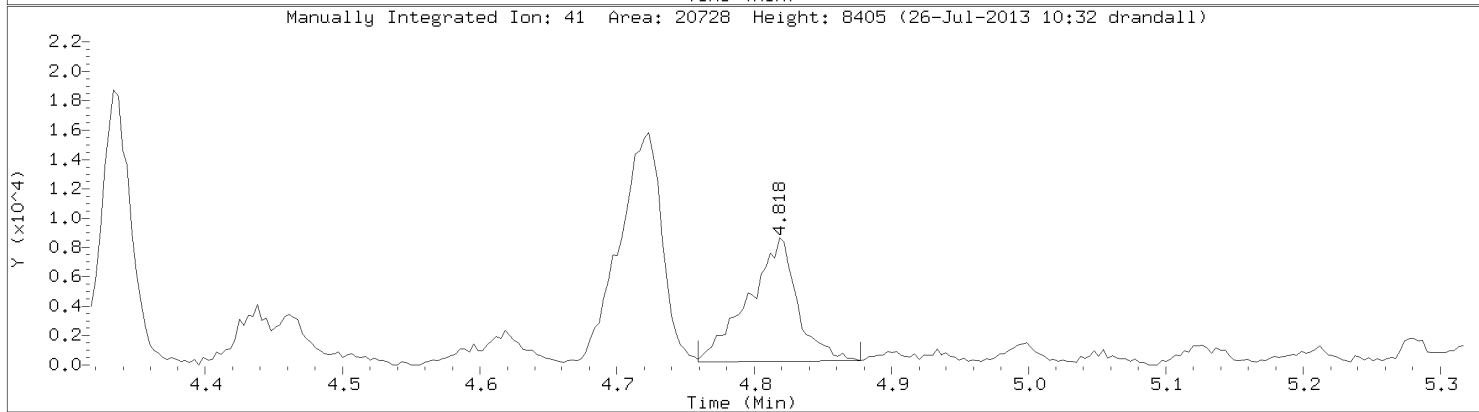
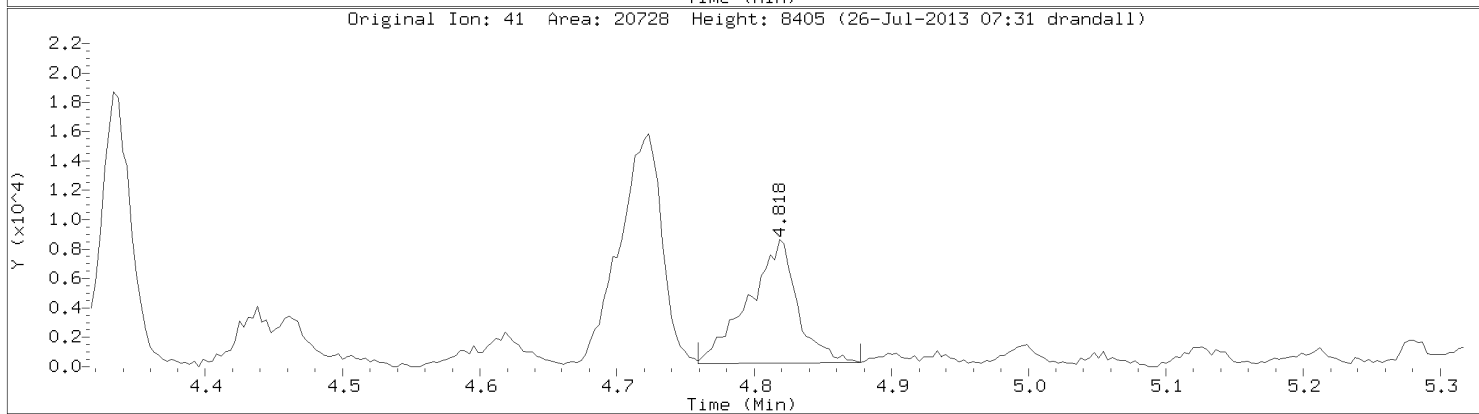
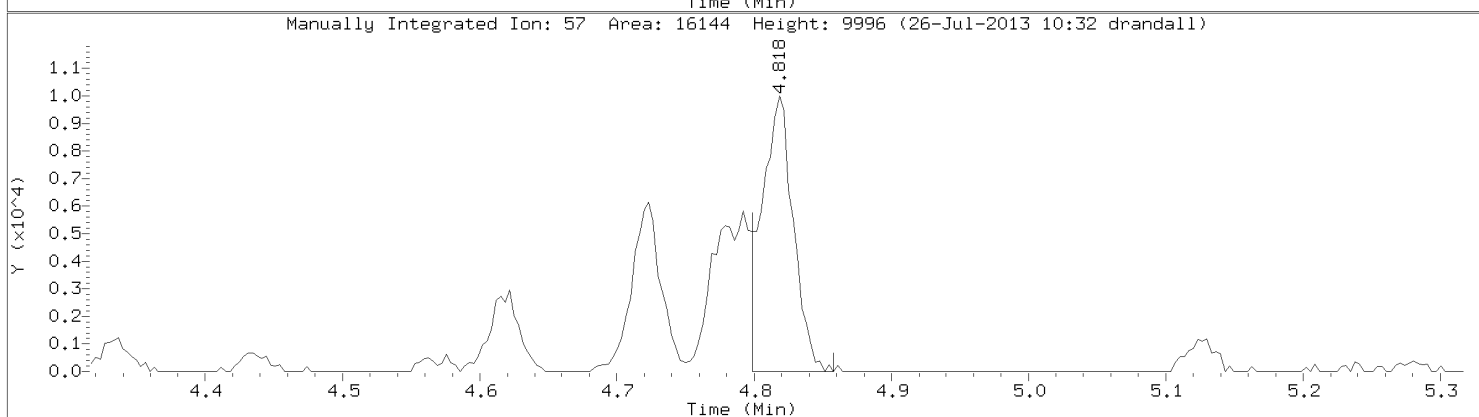
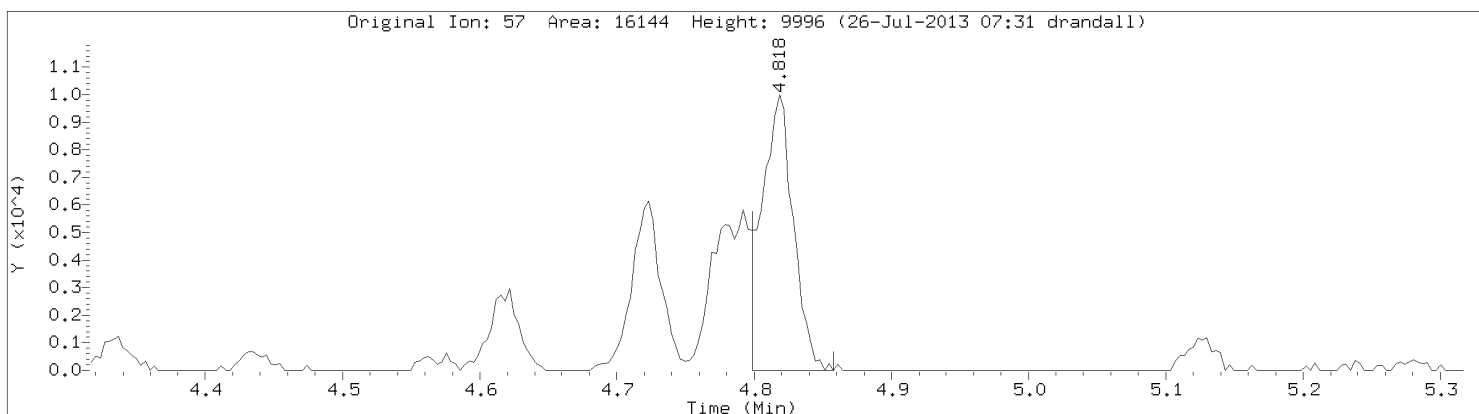


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Injection Date: 26-JUL-2013 05:34
Instrument: 10airD.i
Lab Sample ID: 10236207002

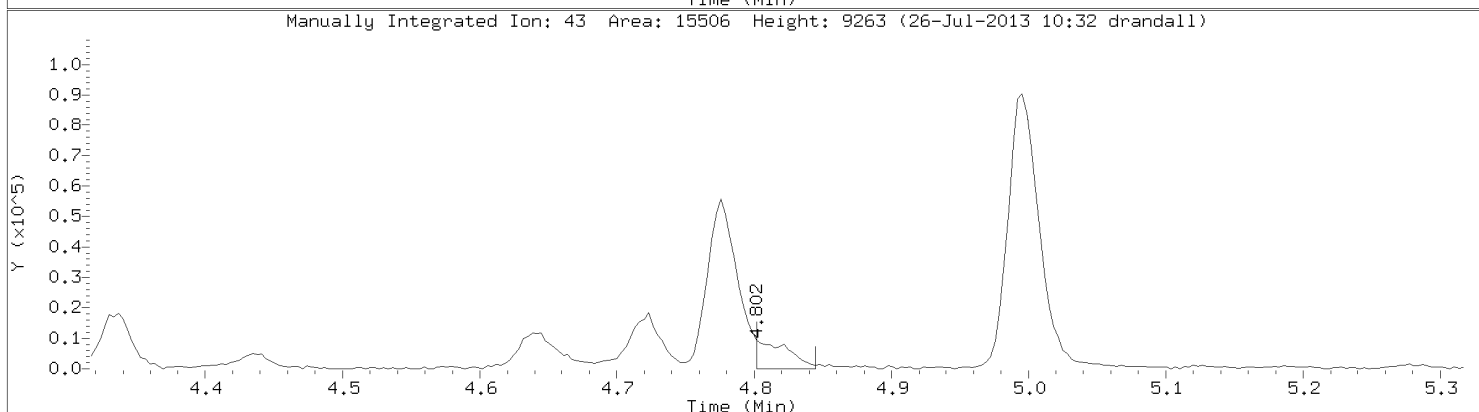
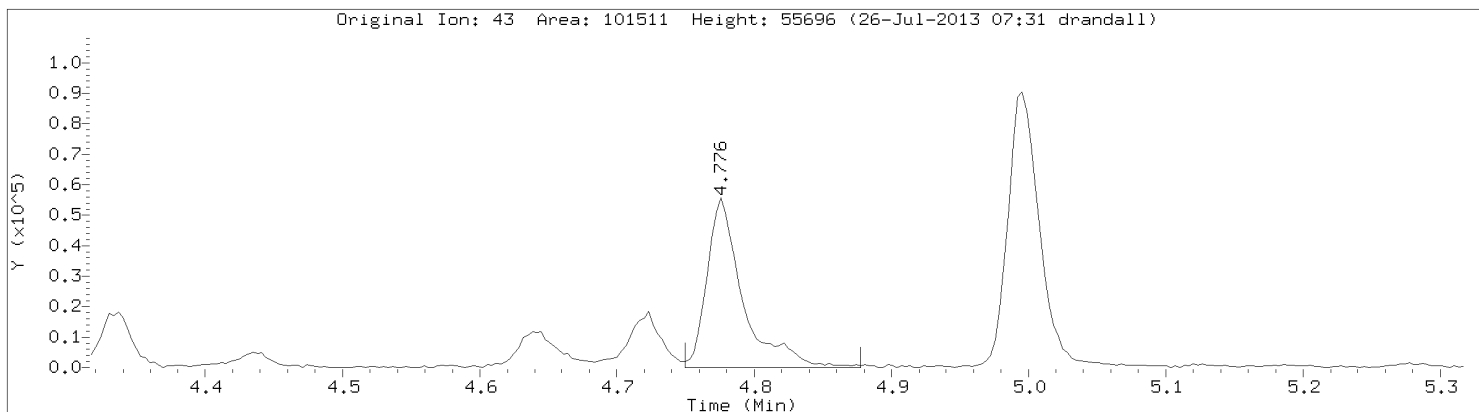


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Injection Date: 26-JUL-2013 05:34
Instrument: 10airD.i
Lab Sample ID: 10236207002

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

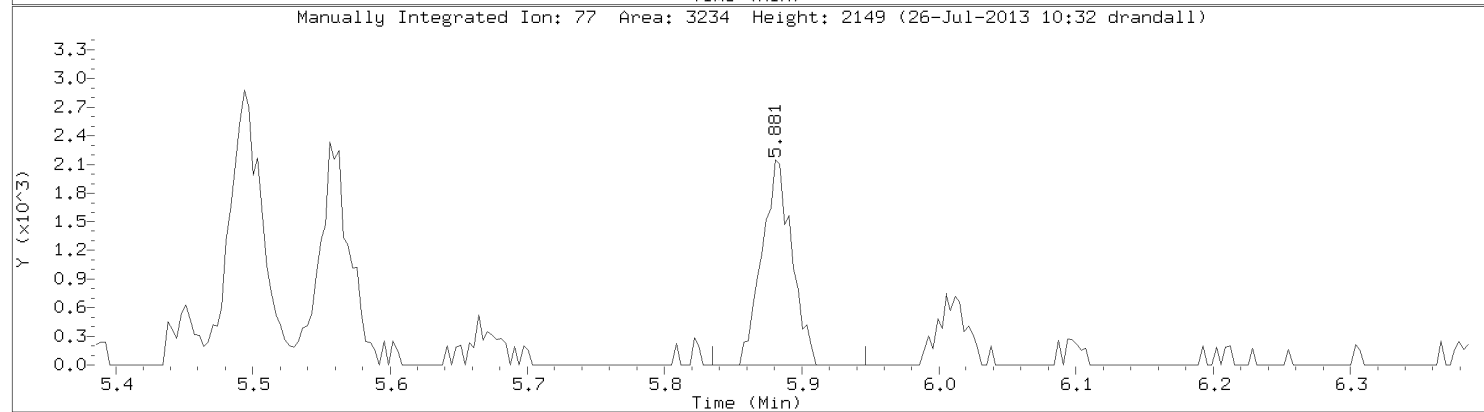
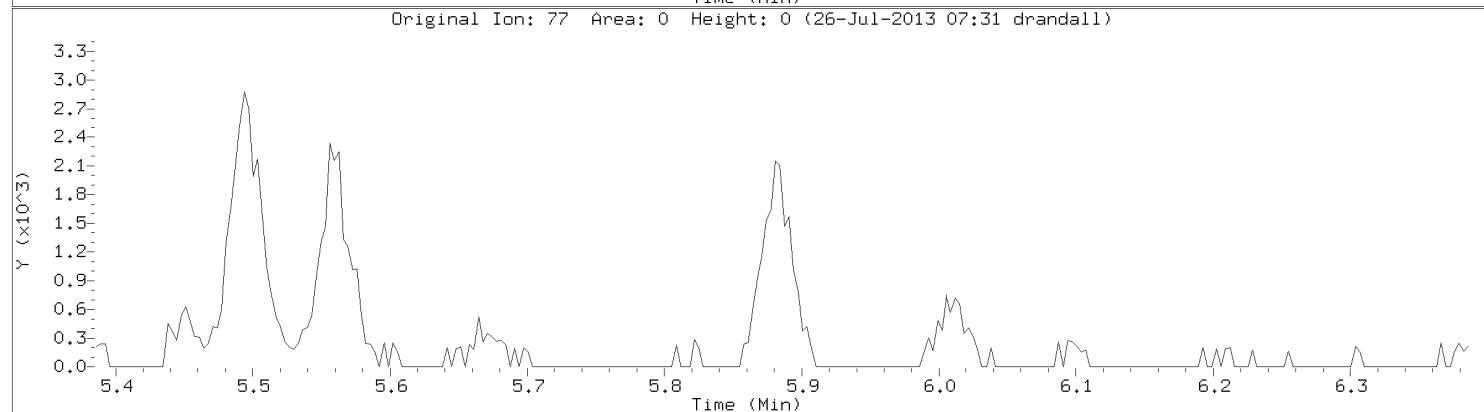
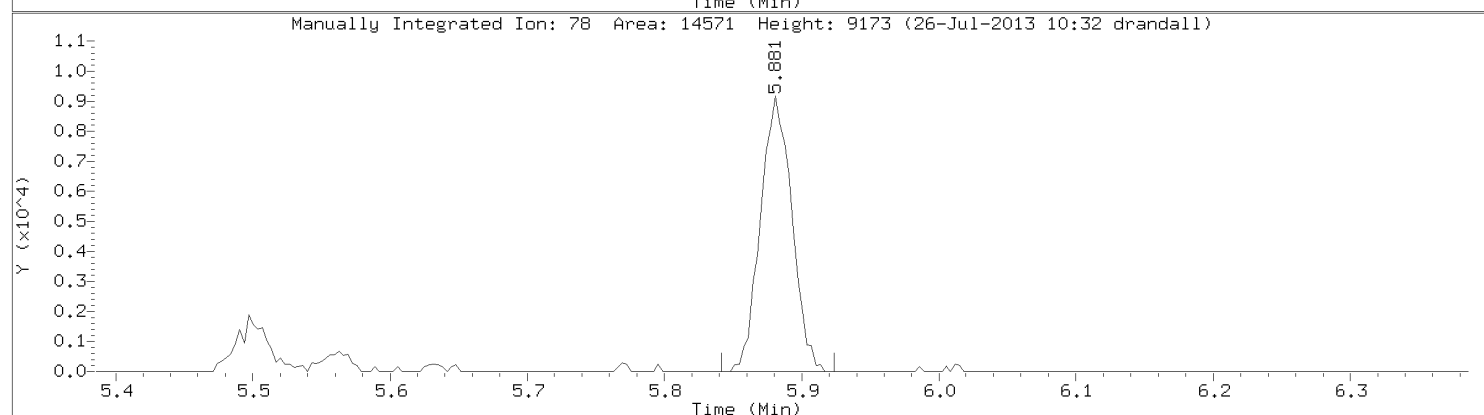
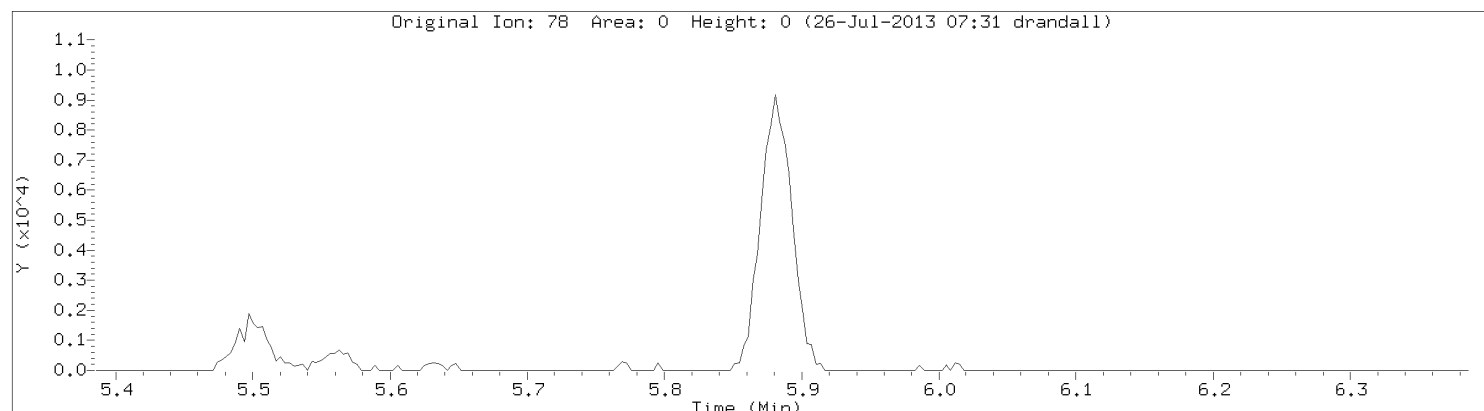


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Injection Date: 26-JUL-2013 05:34
Instrument: 10airD.i
Lab Sample ID: 10236207002

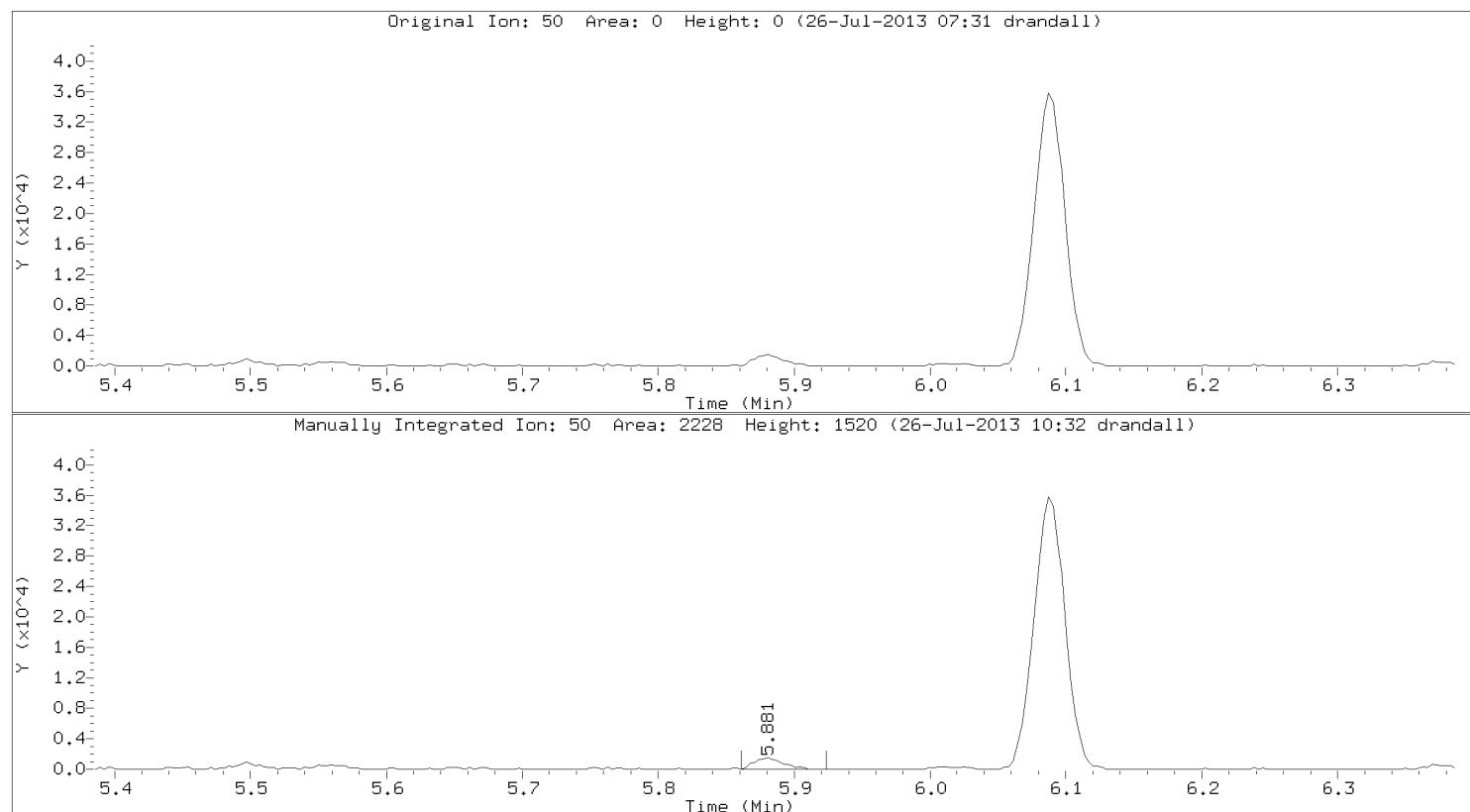


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Injection Date: 26-JUL-2013 05:34
Instrument: 10airD.i
Lab Sample ID: 10236207002

Compound: Benzene
CAS Number: 71-43-2

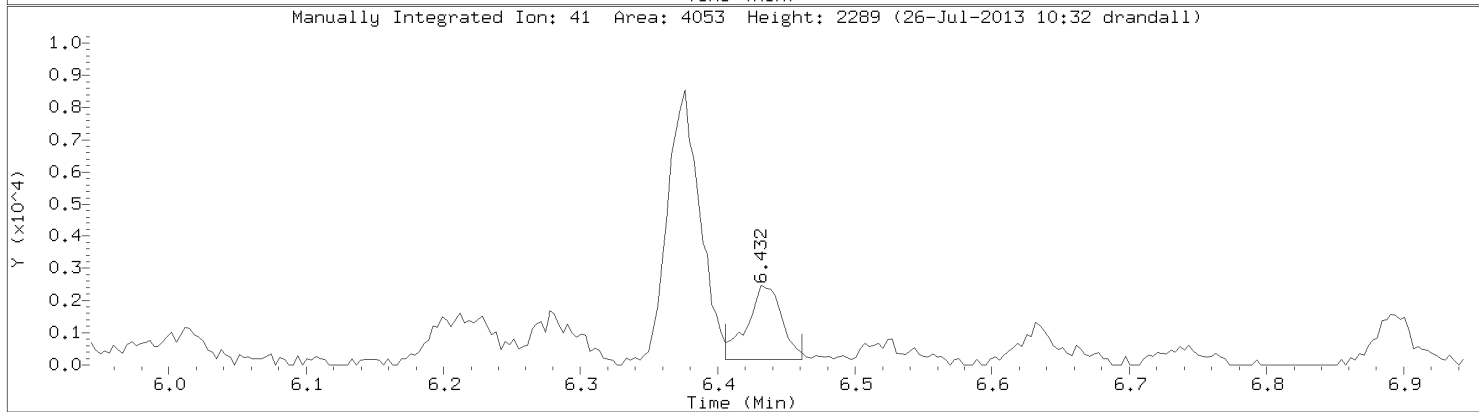
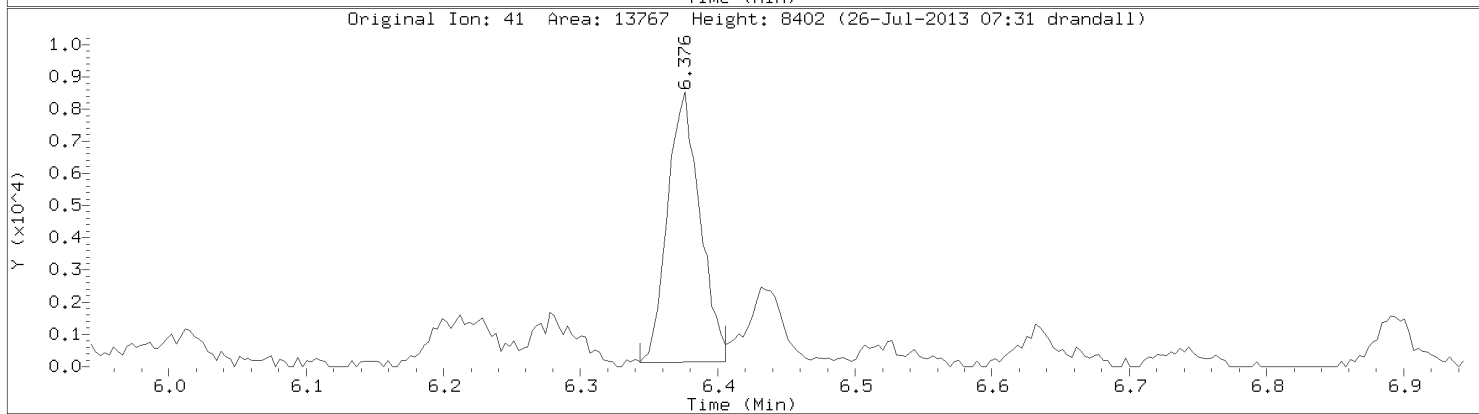
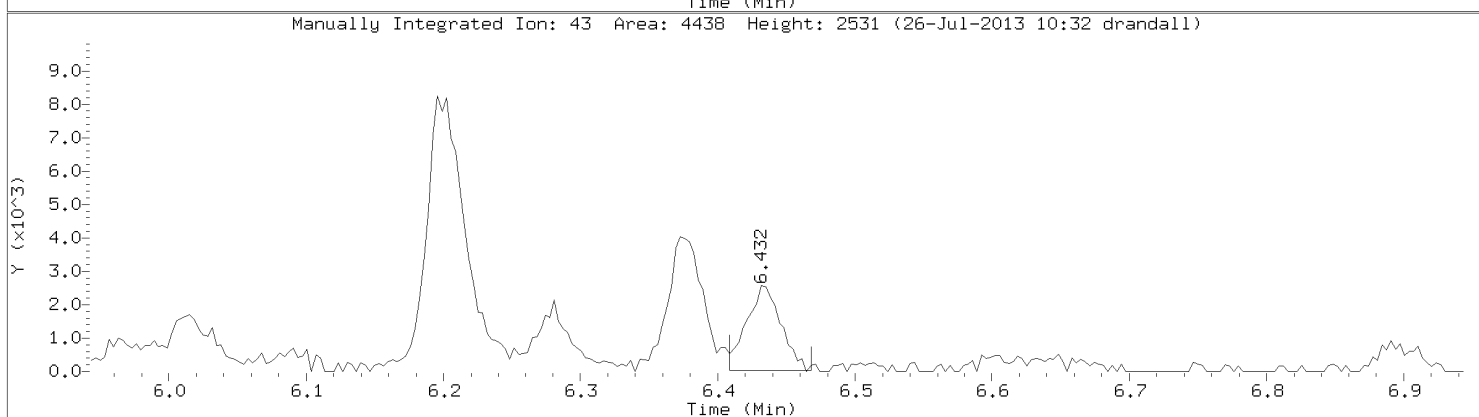
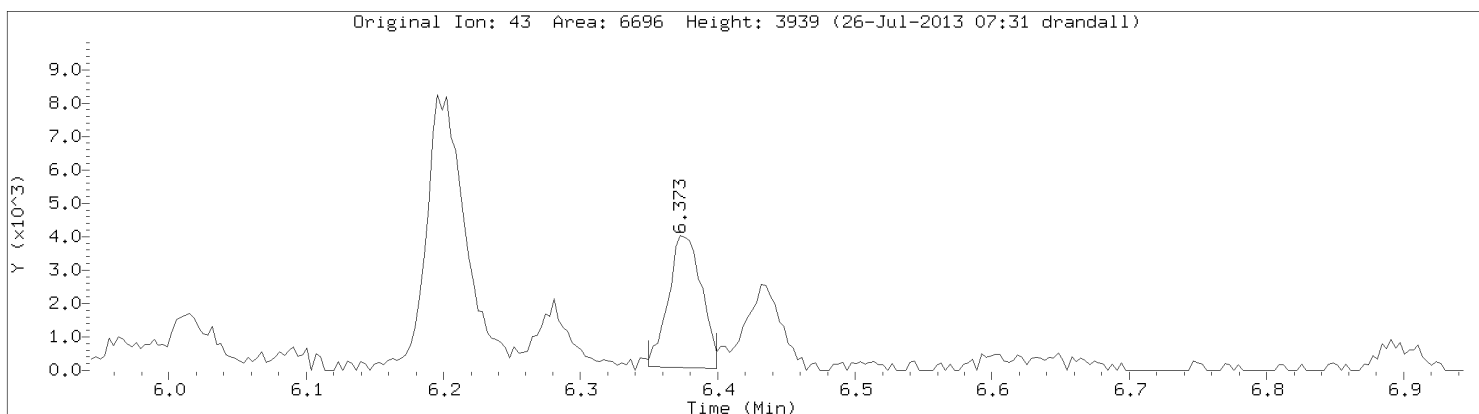


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Instrument: 10airD.i
Lab Sample ID: 10236207002



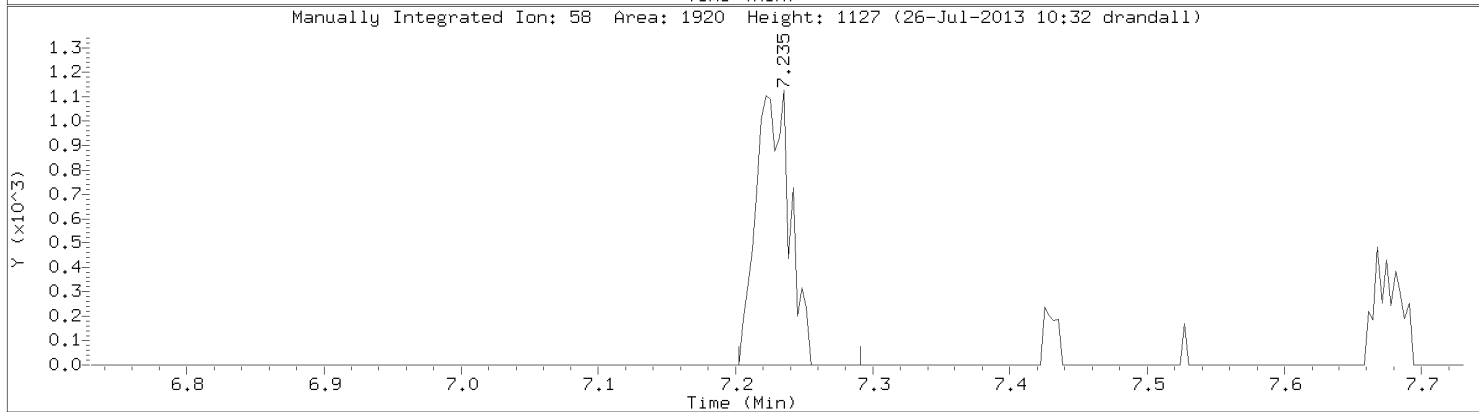
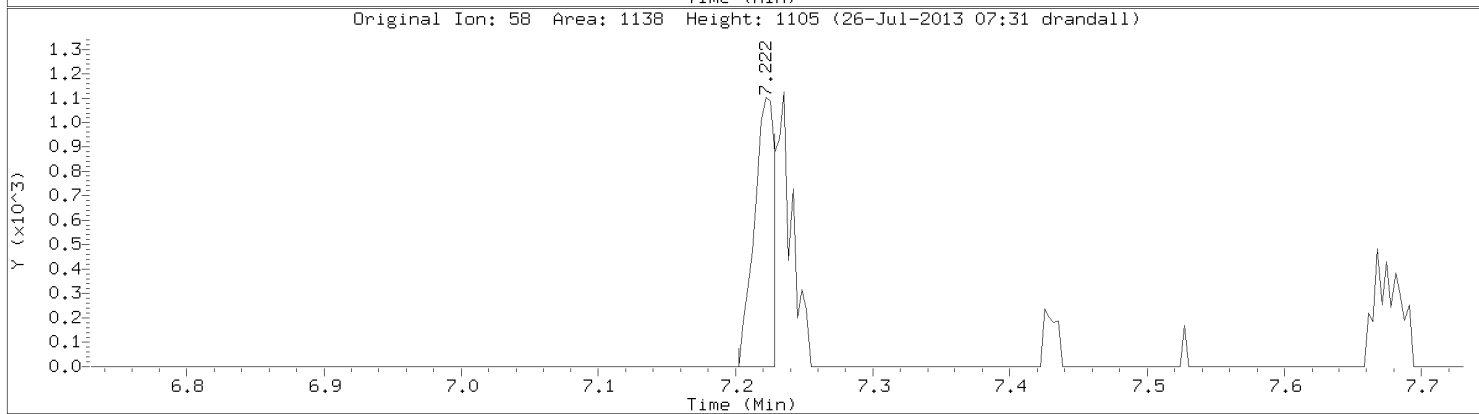
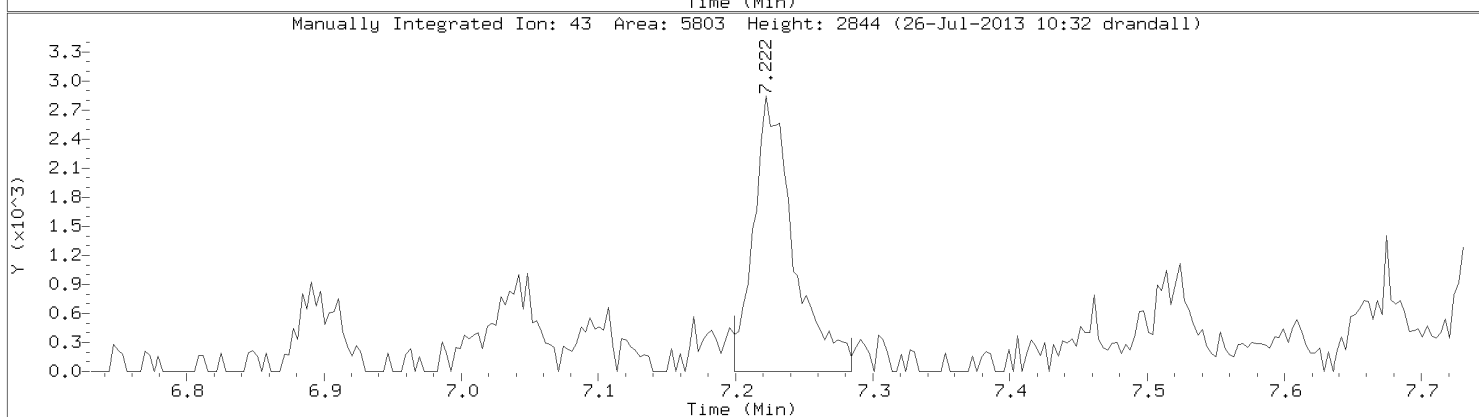
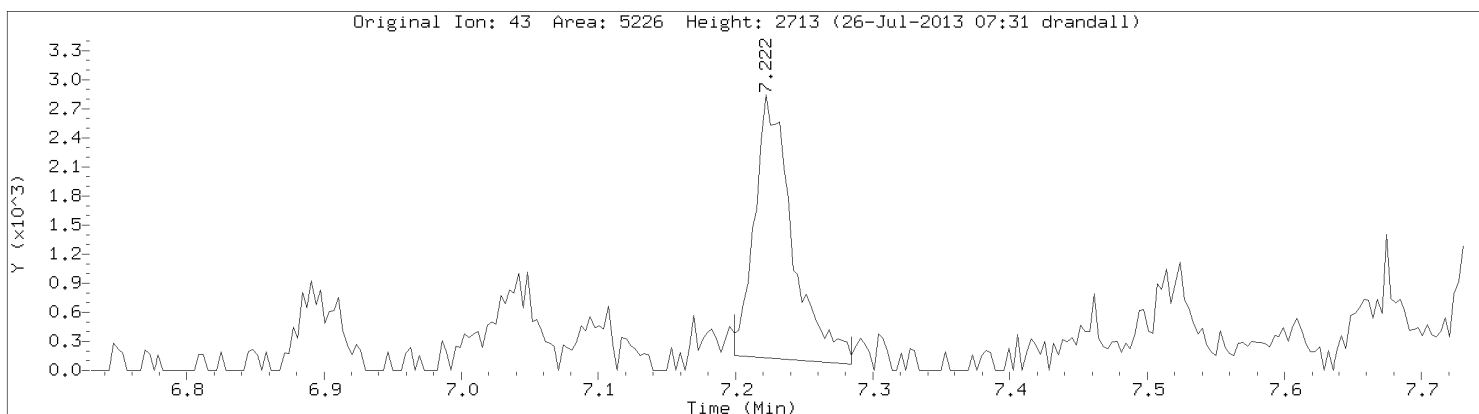
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Injection Date: 26-JUL-2013 05:34
Instrument: 10airD.i
Lab Sample ID: 10236207002

Compound: Heptane
CAS Number: 142-82-5

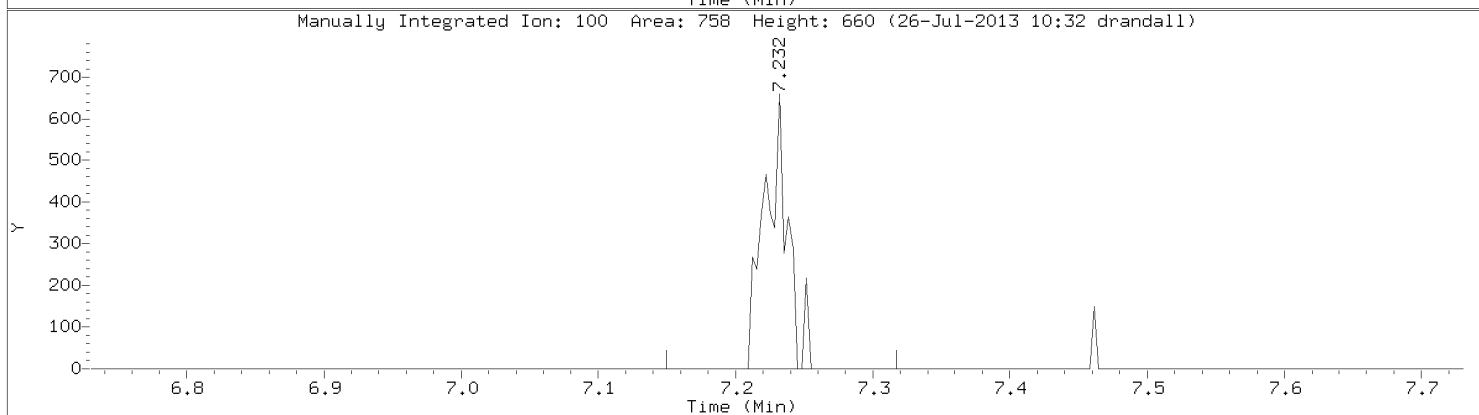
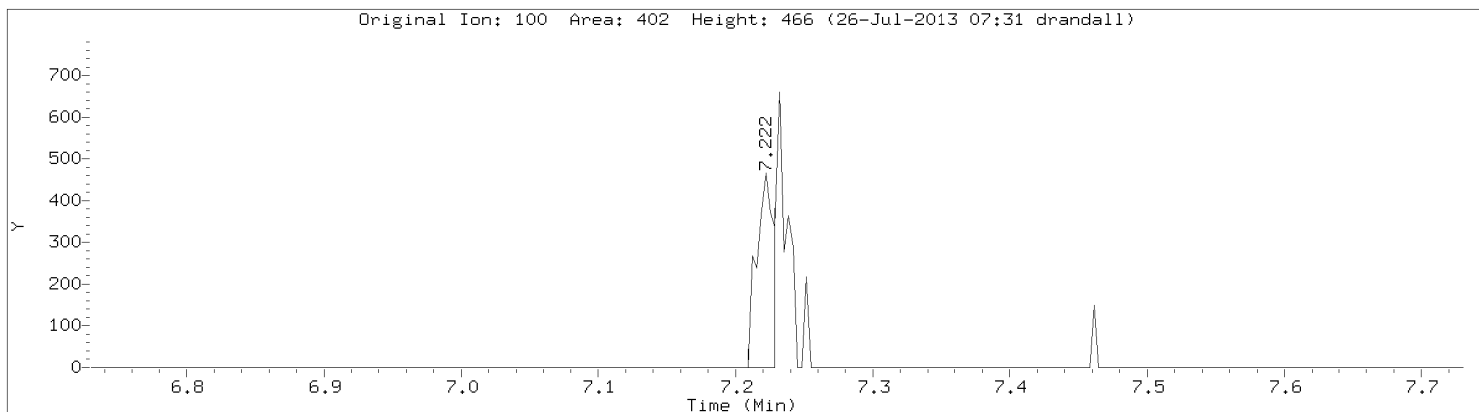


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Injection Date: 26-JUL-2013 05:34
Instrument: 10airD.i
Lab Sample ID: 10236207002

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

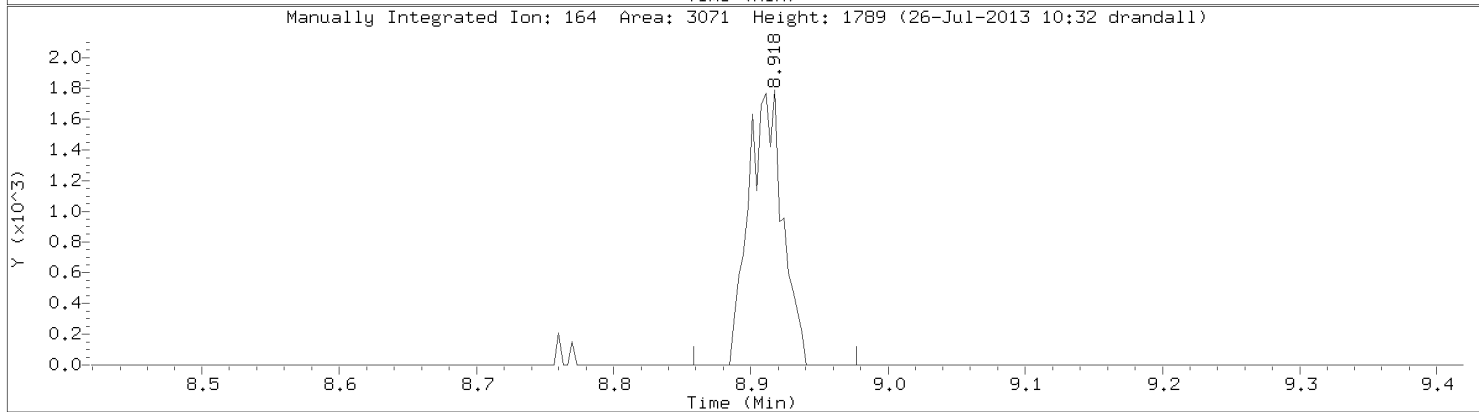
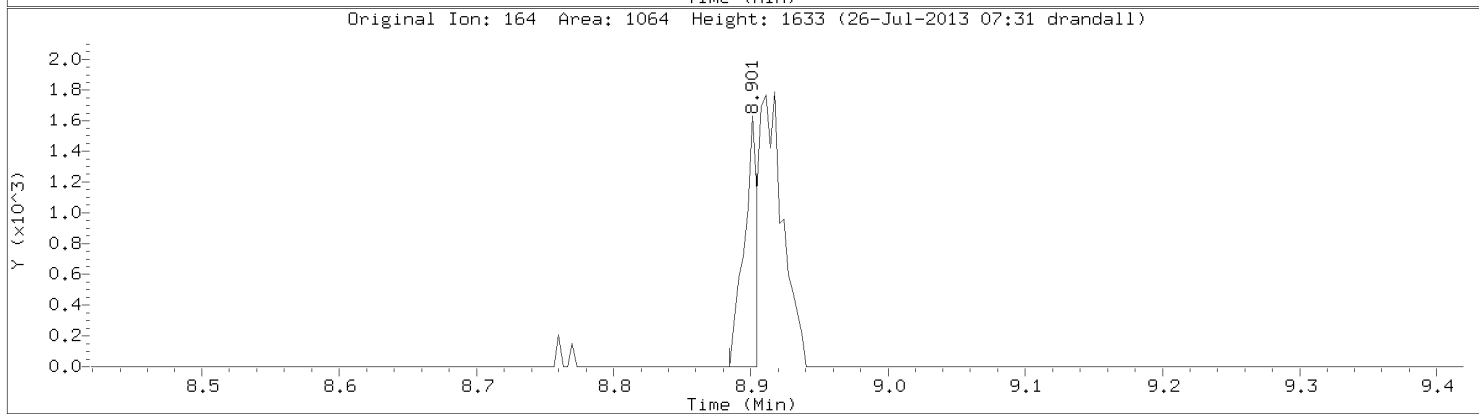
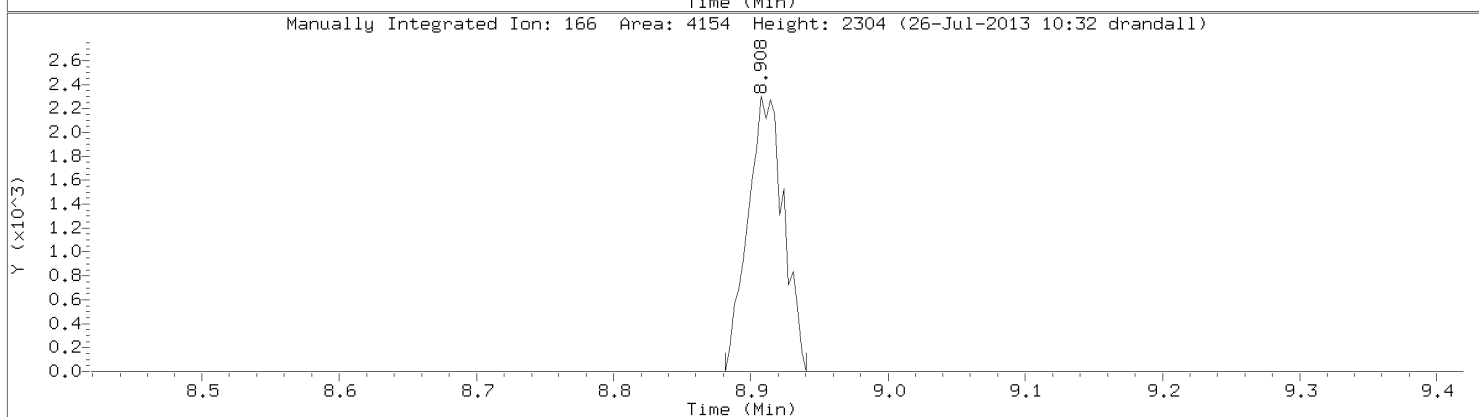
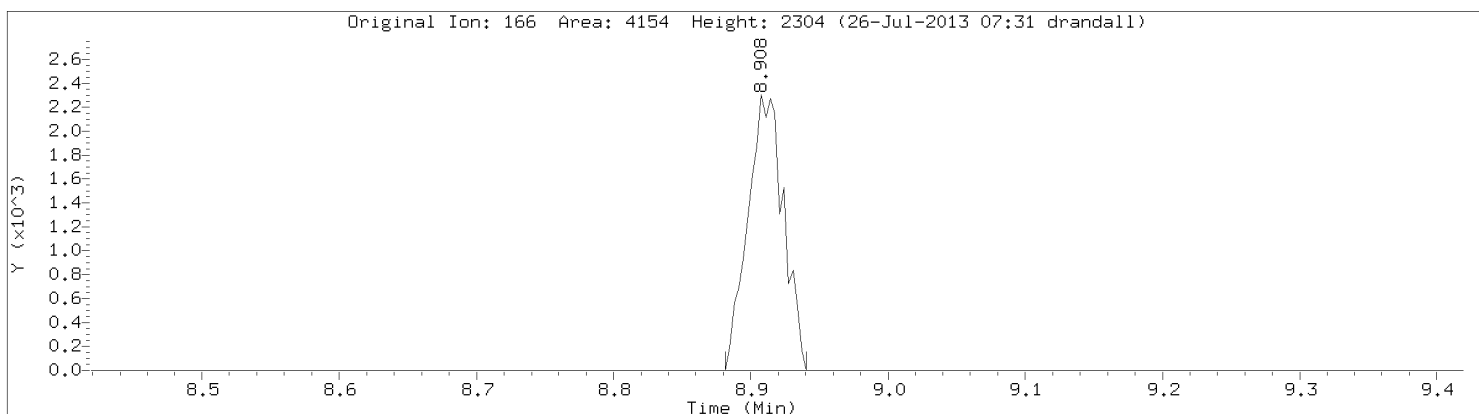


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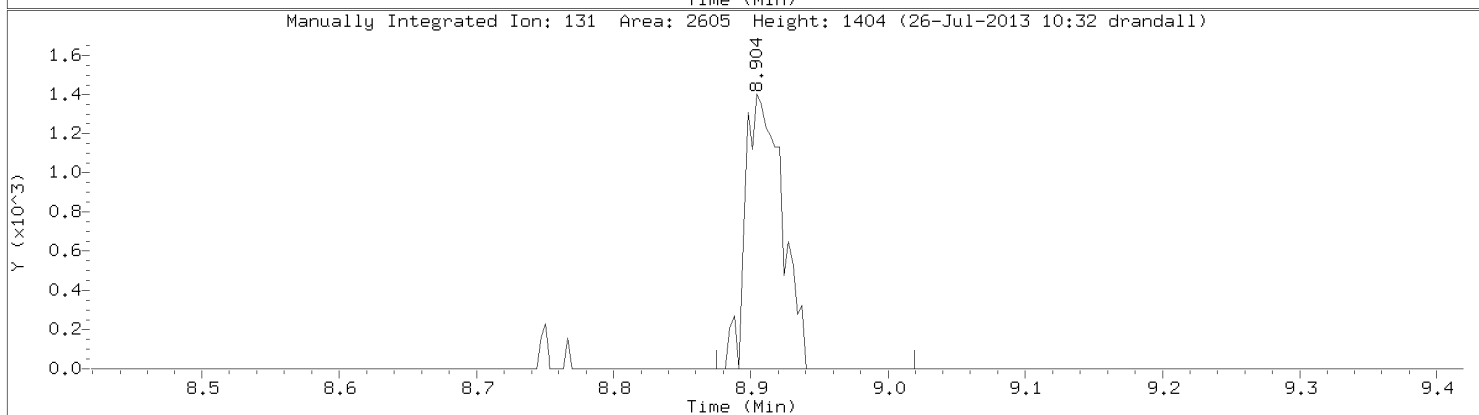
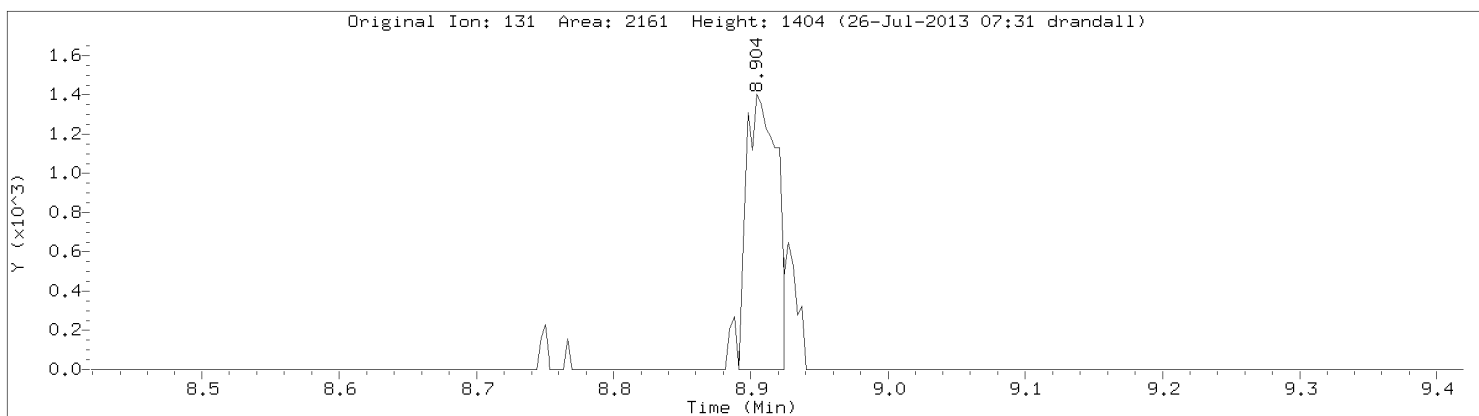


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Injection Date: 26-JUL-2013 05:34
Instrument: 10airD.i
Lab Sample ID: 10236207002

Compound: Tetrachloroethene
CAS Number: 127-18-4

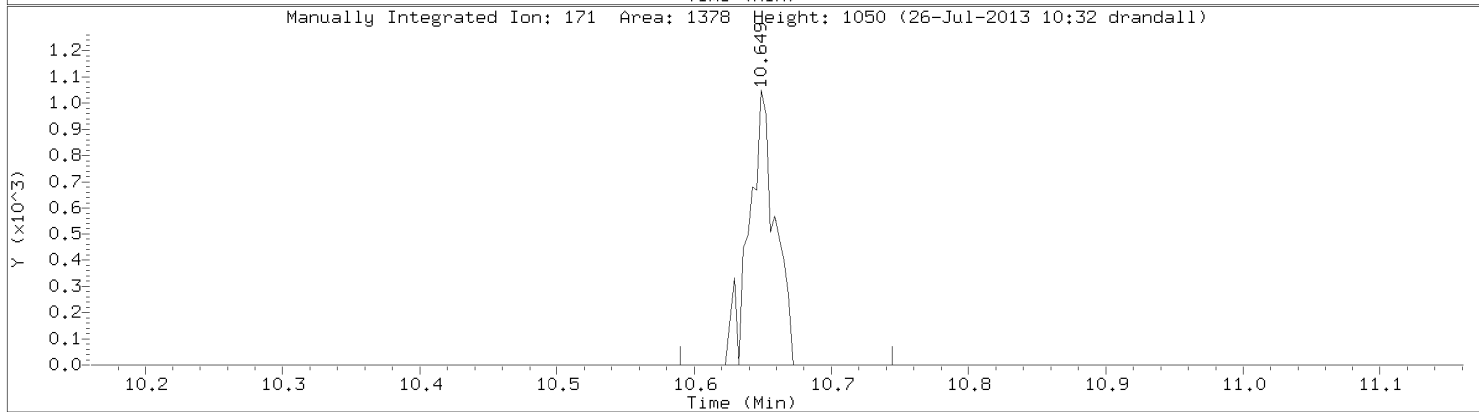
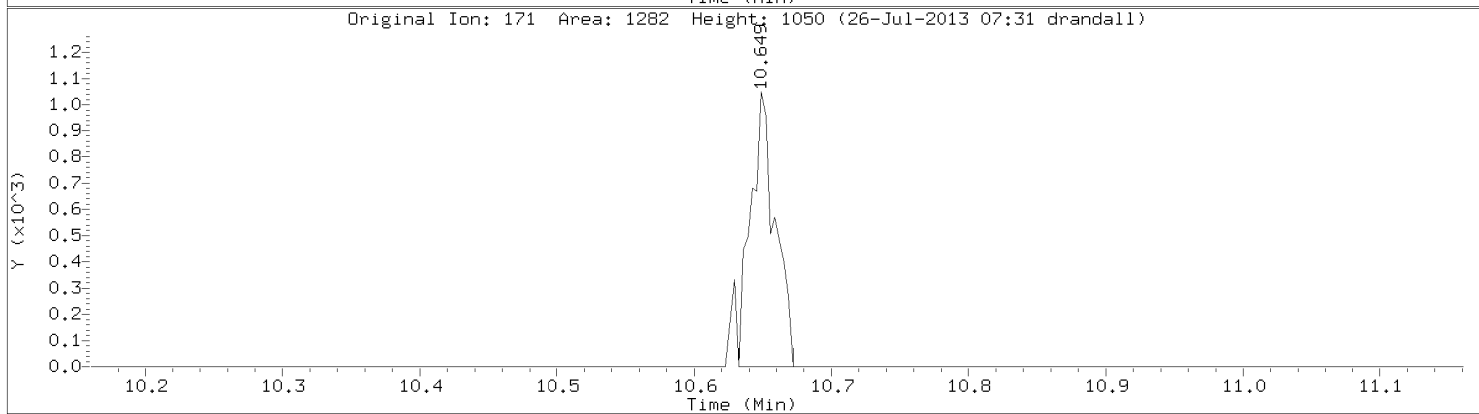
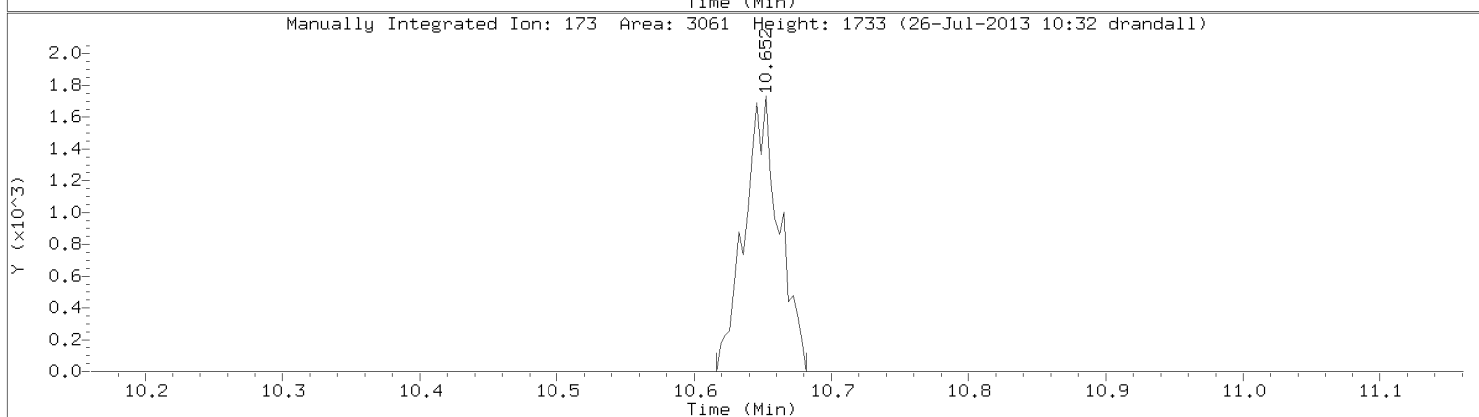
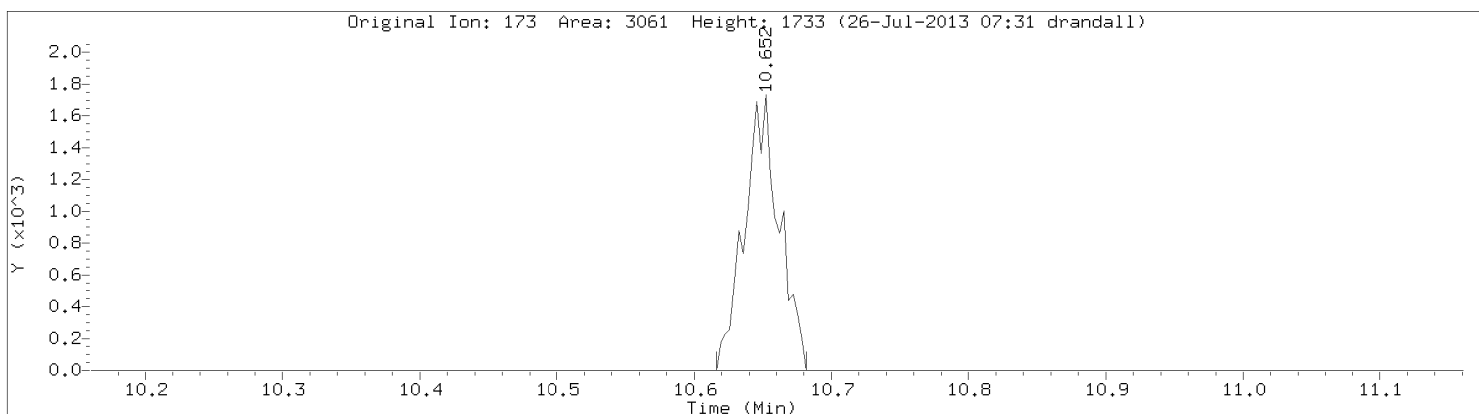


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Injection Date: 26-JUL-2013 05:34
Instrument: 10airD.i
Lab Sample ID: 10236207002



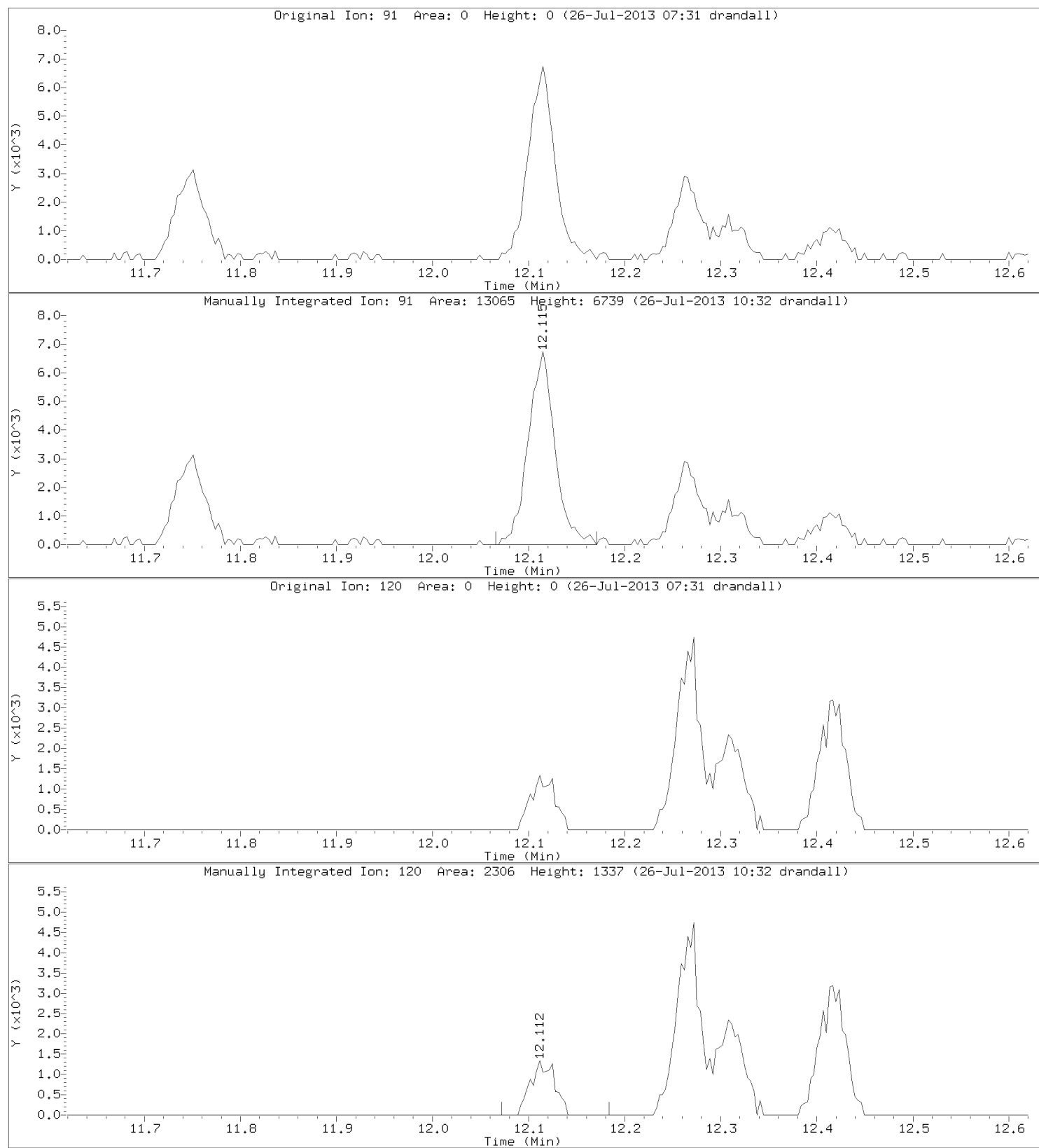
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Injection Date: 26-JUL-2013 05:34
Instrument: 10airD.i
Lab Sample ID: 10236207002

Compound: Bromoform
CAS Number: 75-25-2



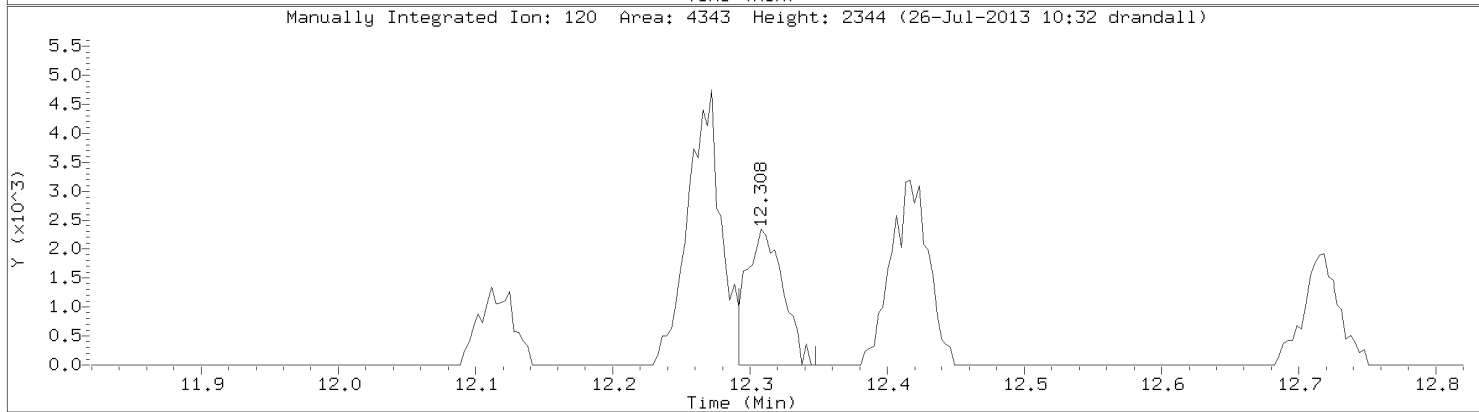
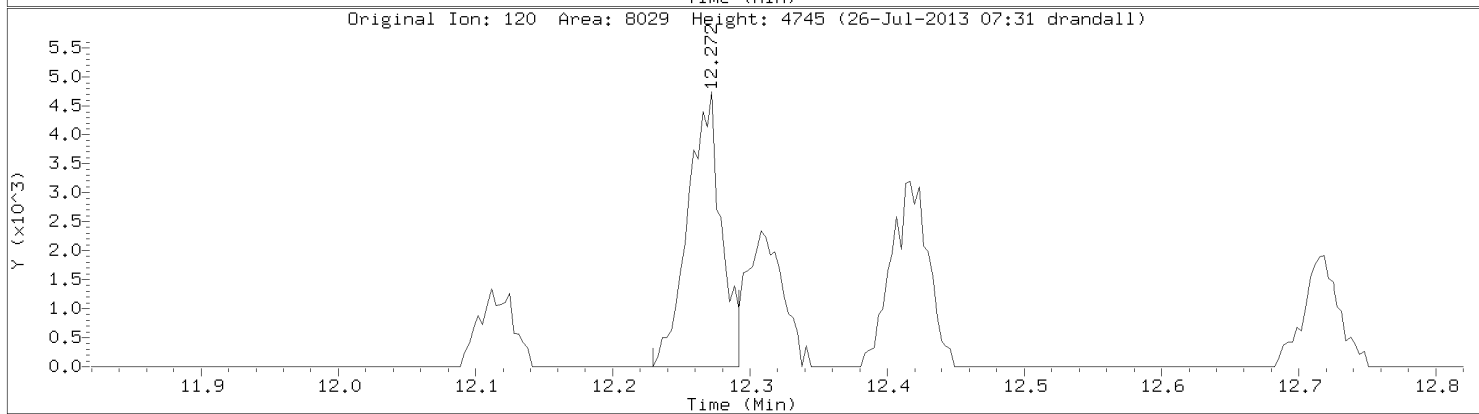
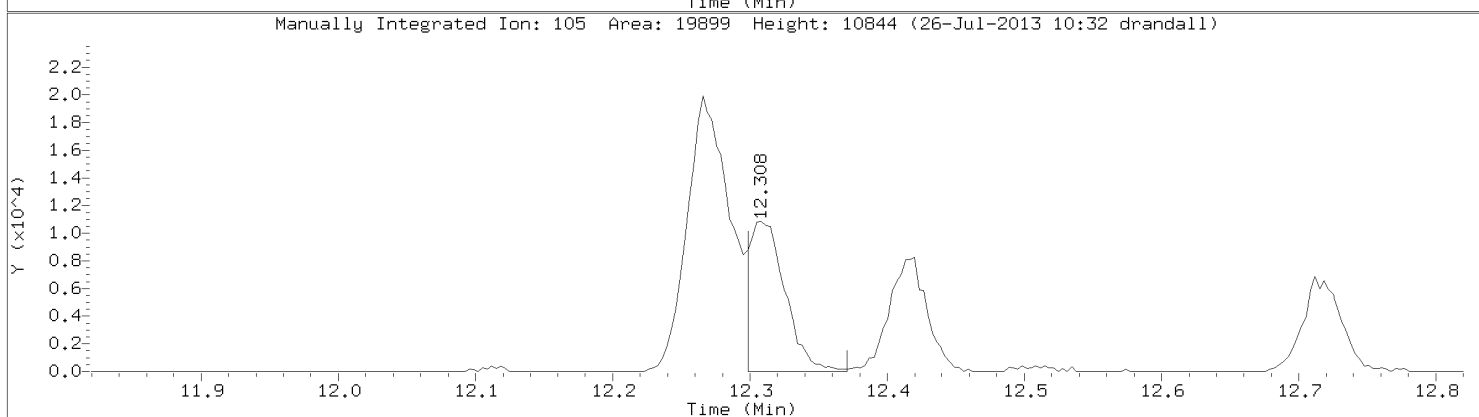
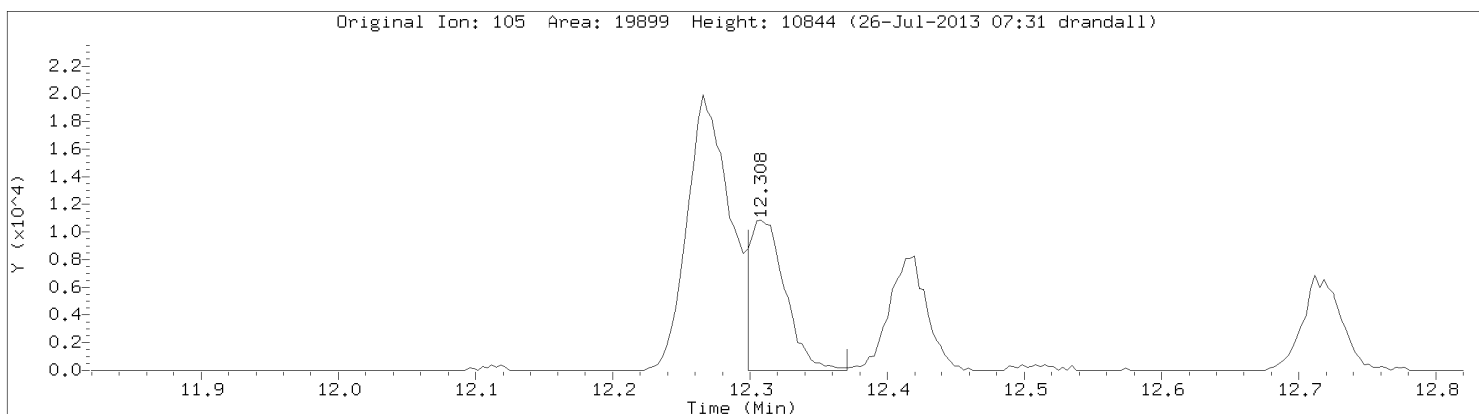
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Injection Date: 26-JUL-2013 05:34
Instrument: 10airD.i
Lab Sample ID: 10236207002

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

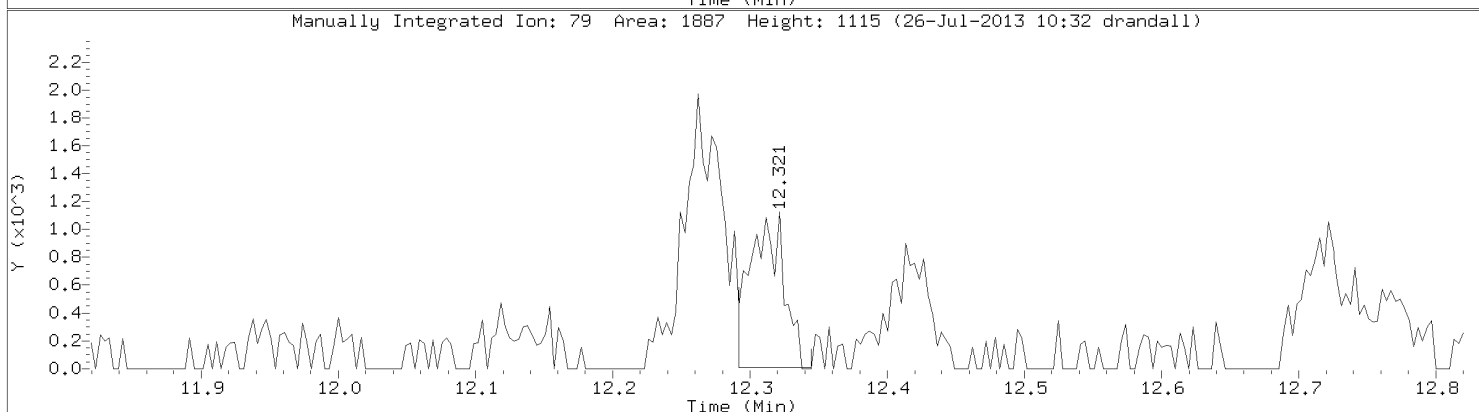
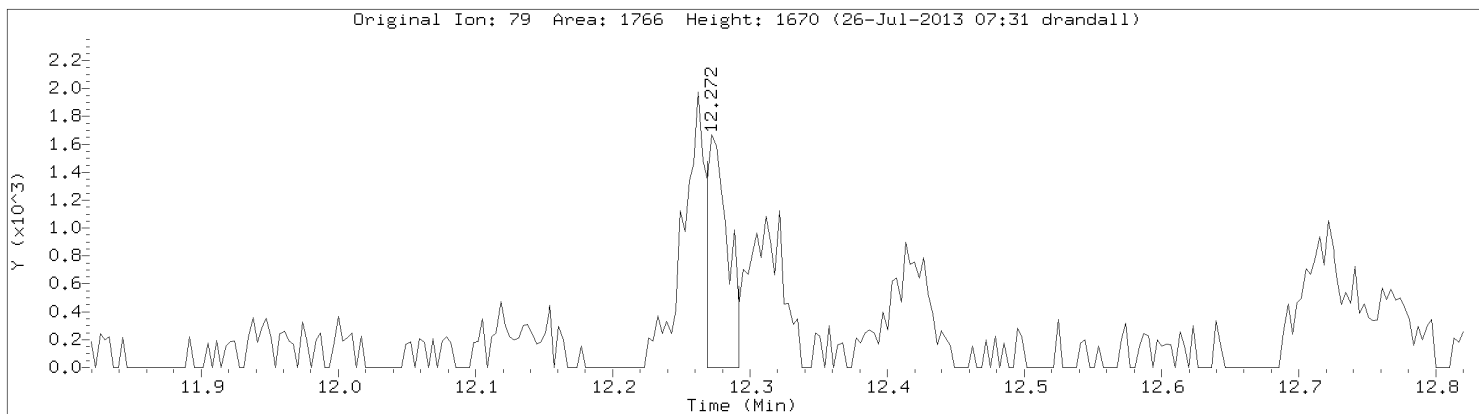


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Injection Date: 26-JUL-2013 05:34
Instrument: 10airD.i
Lab Sample ID: 10236207002

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

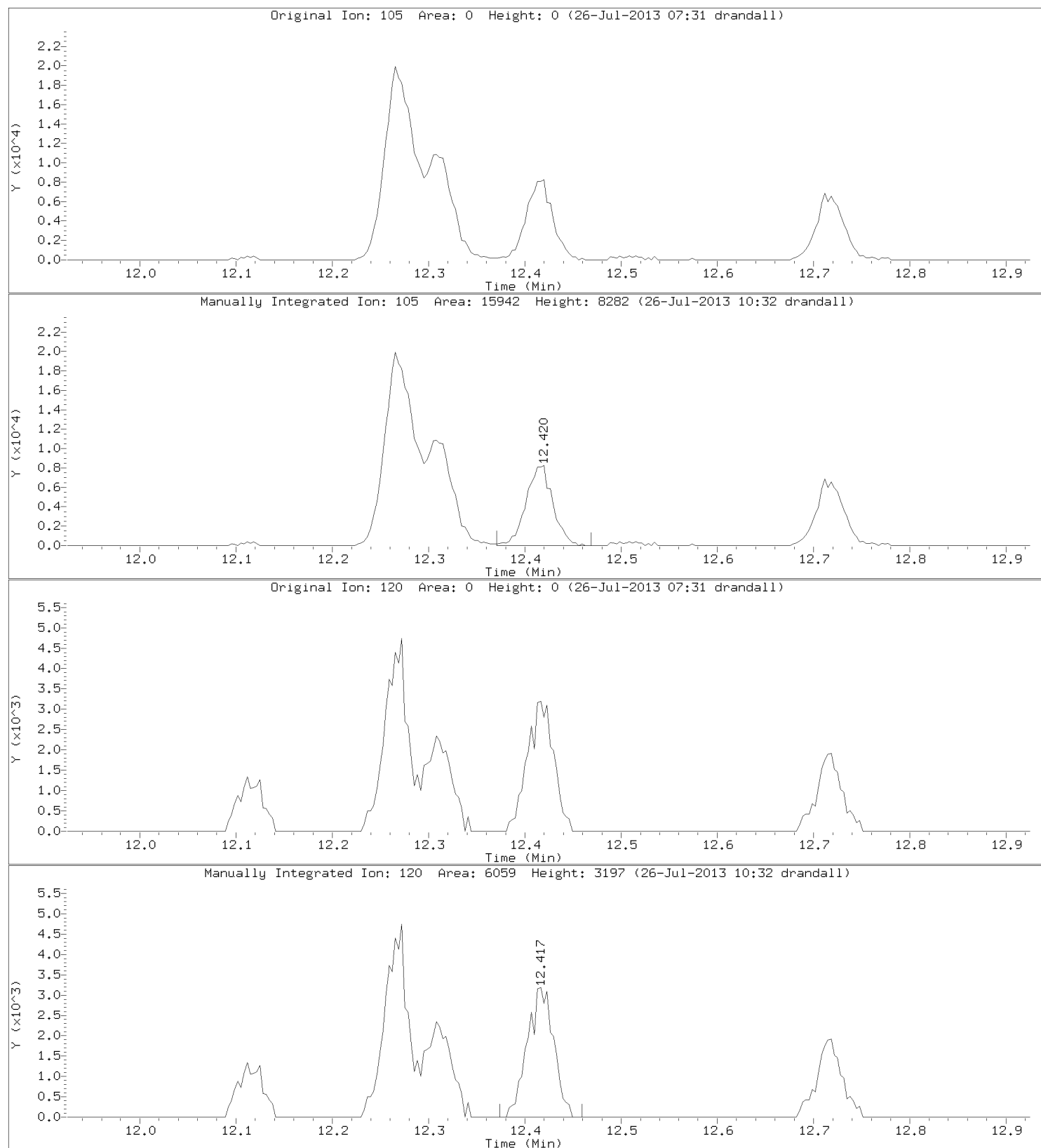


Data File: \\192.168.10.12\chem\10airD.i\072513.b\20634.d
Injection Date: 26-JUL-2013 05:34
Instrument: 10airD.i
Lab Sample ID: 10236207002



Data File: \\192.168.10.12\chem\10airD.i\072513.b\20634.d
Injection Date: 26-JUL-2013 05:34
Instrument: 10airD.i
Lab Sample ID: 10236207002

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



Data File: \\192.168.10.12\chem\10airD.i\072613.b\20708.d
 Report Date: 29-Jul-2013 07:41

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072613.b\20708.d
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 Inj Date : 26-JUL-2013 14:39
 Operator : DR1
 Smp Info :
 Misc Info : 17876
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\072613.b\TO15_205-13.m
 Meth Date : 26-Jul-2013 11:48 drandall Quant Type: ISTD
 Cal Date : 24-JUL-2013 16:39 Cal File: 20509.d
 Als bottle: 8
 Dil Factor: 1.99660
 Integrator: HP RTE
 Target Version: 4.14

Inst ID: 10airD.i

Compound Sublist: chlorinated.sub

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.997	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
5 Vinyl chloride	62							
8 Chloroethane	64							
14 Isopropyl Alcohol	45							
15 1,1-Dichloroethene	61							
18 Freon 113	101							
22 trans-1,2-dichloroethene	96							
25 1,1-Dichloroethane	63							
\$ 26 Hexane-d14 (S)	66		4.697	4.700	(0.772)	302965	8.86769	8.87
29 cis-1,2-Dichloroethene	96							
31 Chloroform	83							
33 1,1,1-Trichloroethane	97							
34 1,2-Dichloroethane	62							
36 Carbon tetrachloride	117							
* 38 1,4-Difluorobenzene	114		6.087	6.094	(1.000)	707507	10.0000	
42 Trichloroethene	130							
47 trans-1,3-Dichloropropene	75							
\$ 48 Toluene-d8 (S)	98		7.838	7.848	(1.288)	495211	10.0221	10.0
50 1,1,2-Trichloroethane	97							
54 Tetrachloroethene	166		8.910	8.918	(0.920)	6056	0.52497	1.05 (M)
* 55 Chlorobenzene - d5	117		9.684	9.691	(1.000)	260406	10.0000	
62 1,1,2,2-Tetrachloroethane	83							
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.446	13.459	(1.388)	97756	9.30020	9.30

Data File: \\192.168.10.12\chem\10airD.i\072613.b\20708.d
Report Date: 29-Jul-2013 07:41

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airD.i\072613.b\20708.d
Report Date: 29-Jul-2013 07:41

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 20708.d
Lab Smp Id: 10236207003
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\072613.b\TO15_205-13.m
Misc Info: 17876

Calibration Date: 26-JUL-2013
Calibration Time: 11:27

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	707507	22.03
55 Chlorobenzene - d	221404	132842	309966	260406	17.62

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	-0.05
55 Chlorobenzene - d	9.69	9.36	10.02	9.68	-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\072613.b\20708.D

Date : 26-JUL-2013 14:39

Client ID:

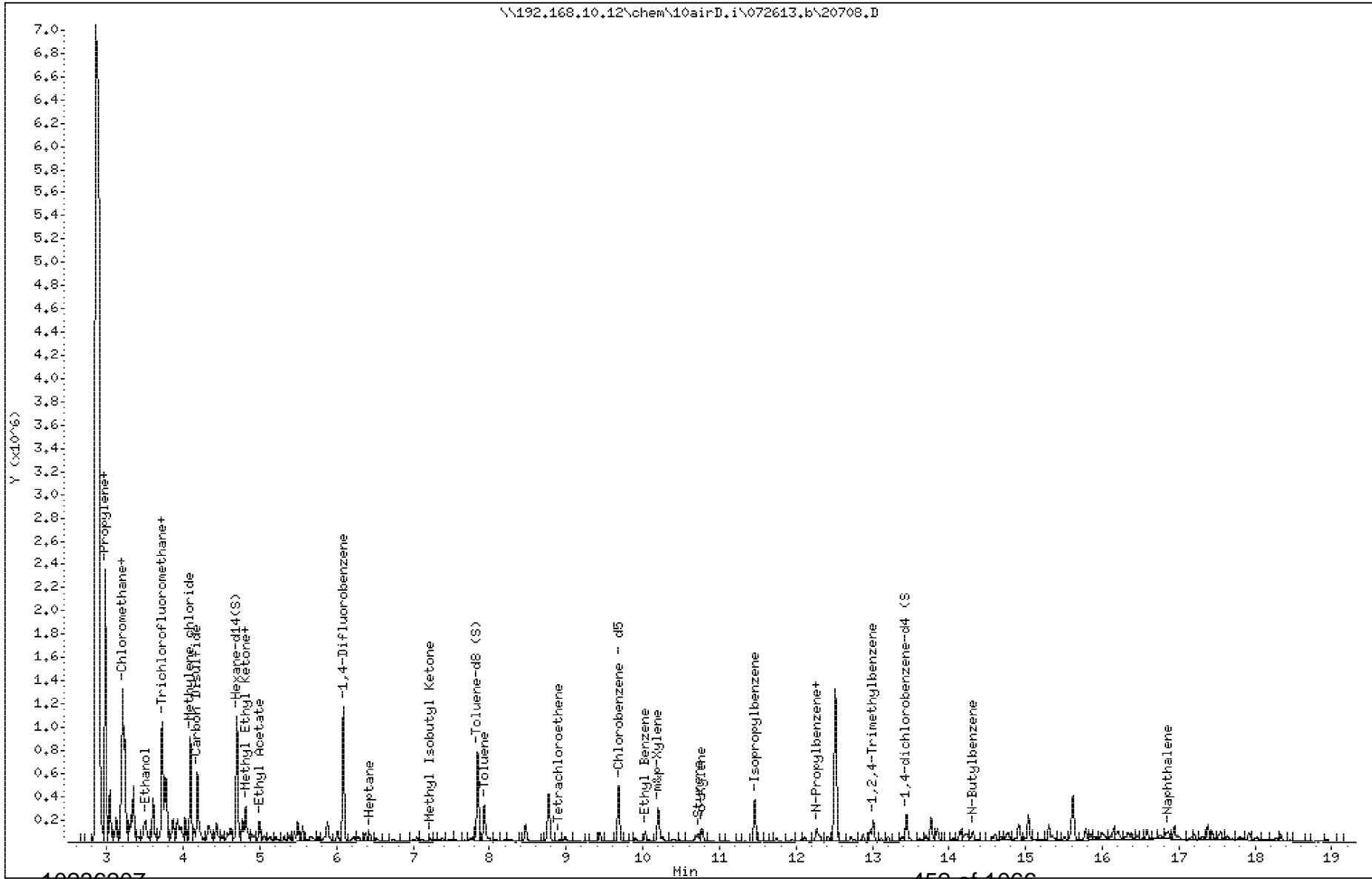
Instrument: 10airD.i

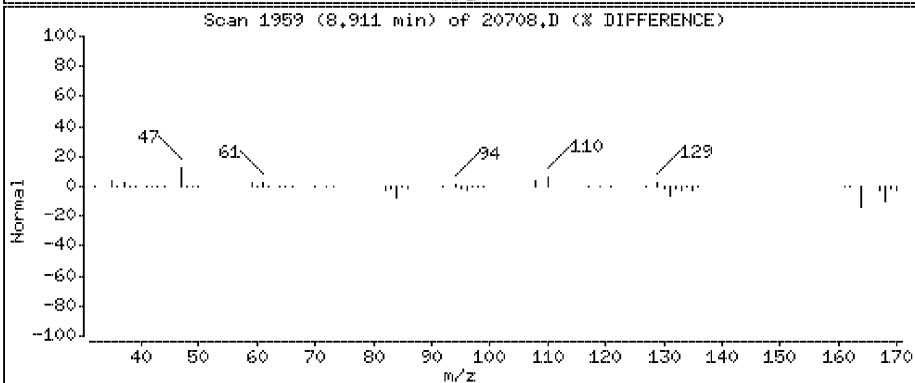
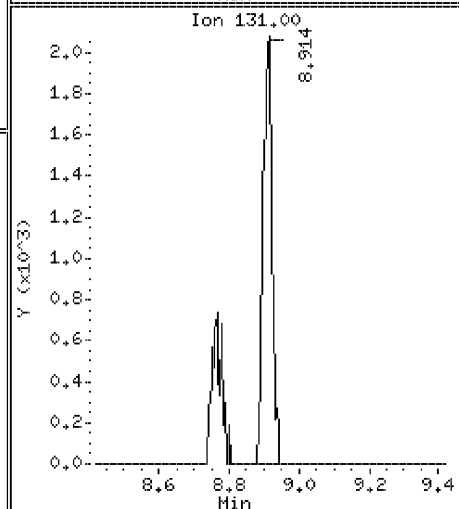
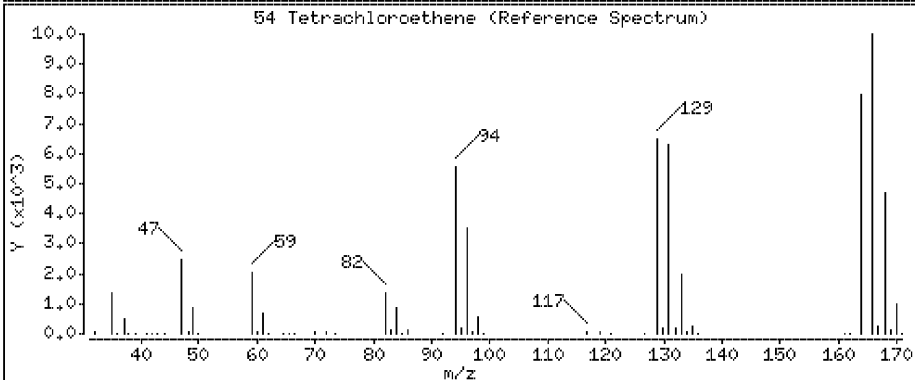
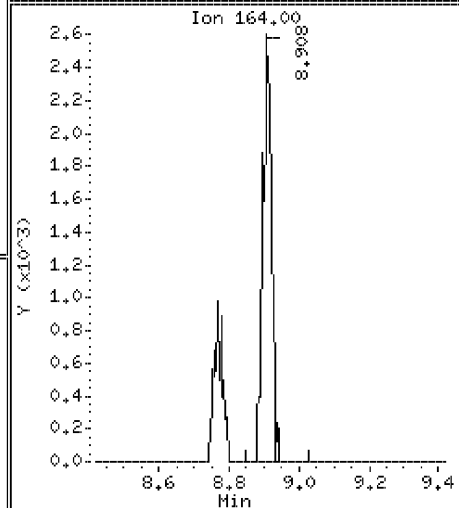
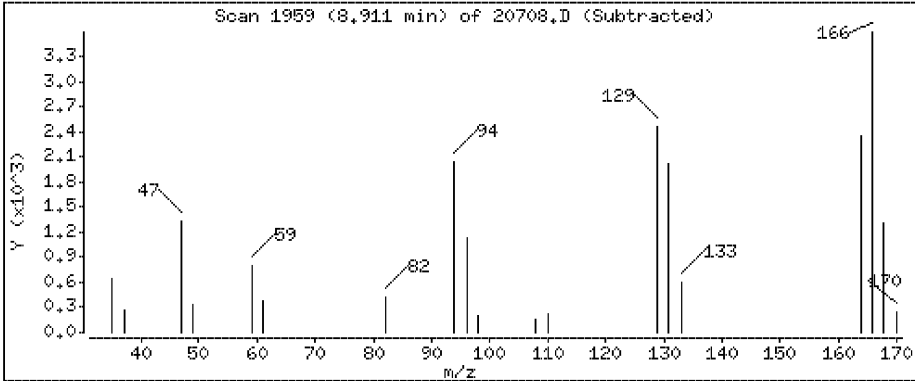
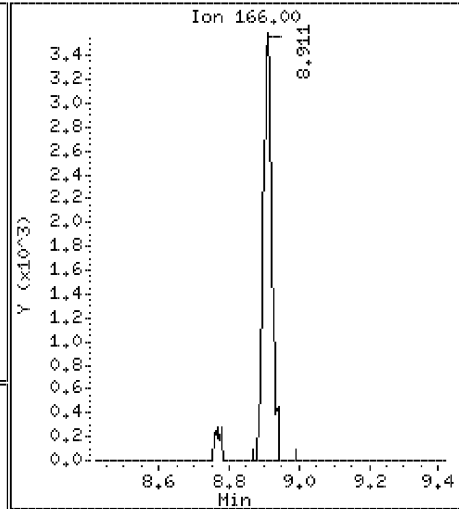
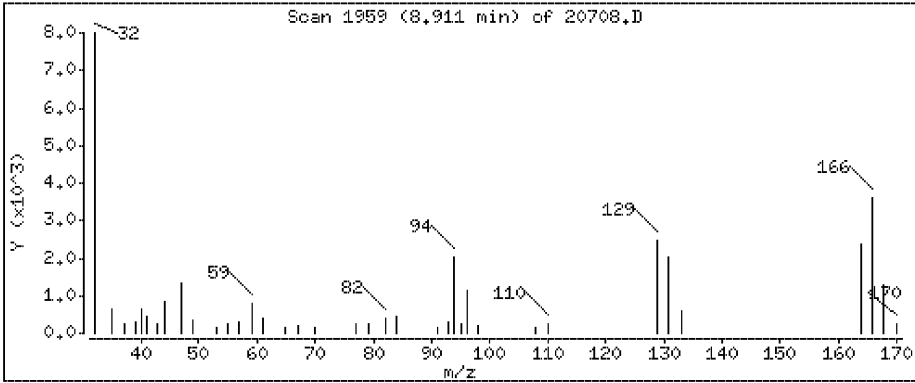
Sample Info:

Operator: DR1

Column phase: J&W DB-5

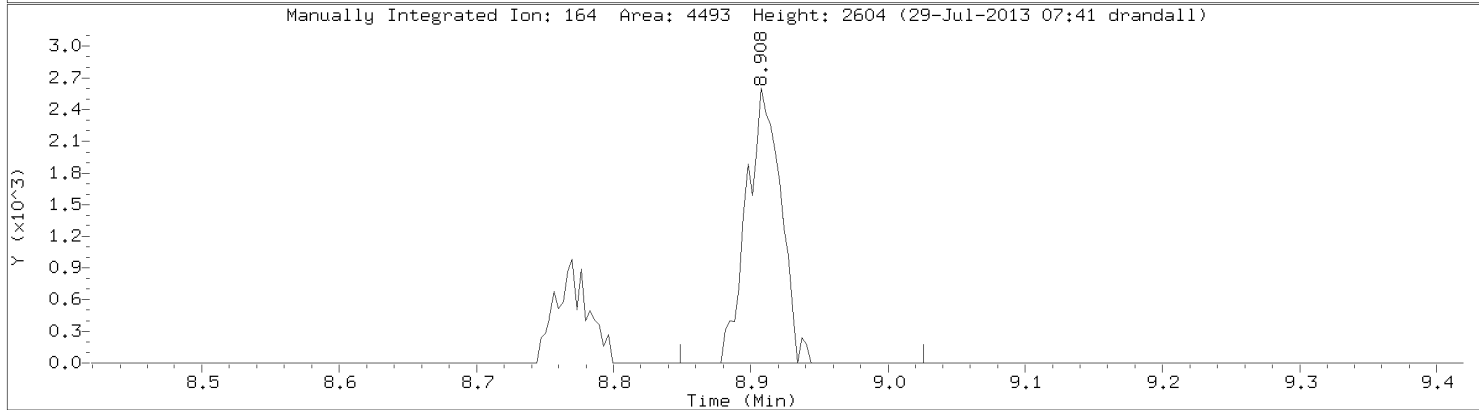
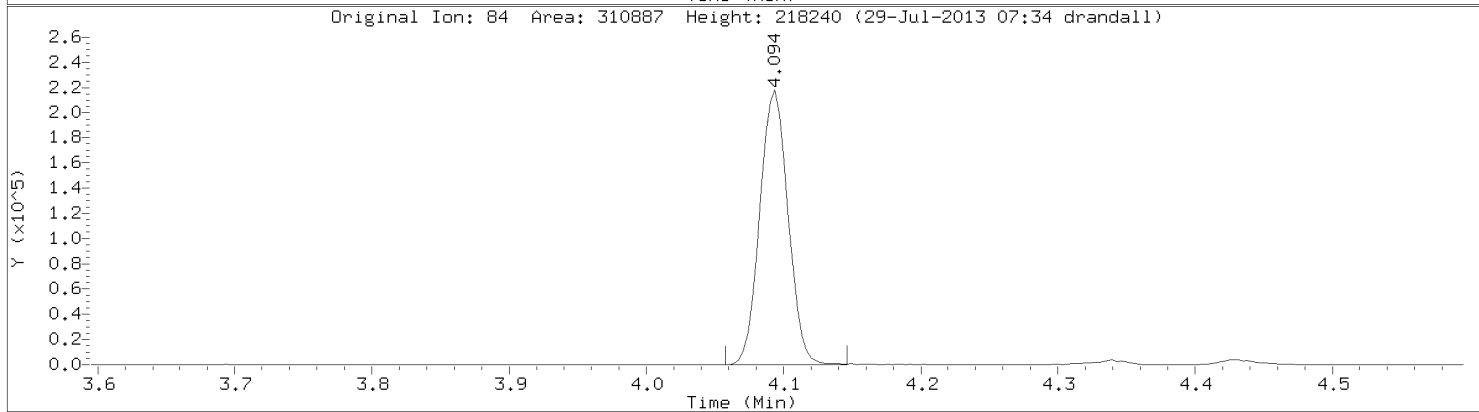
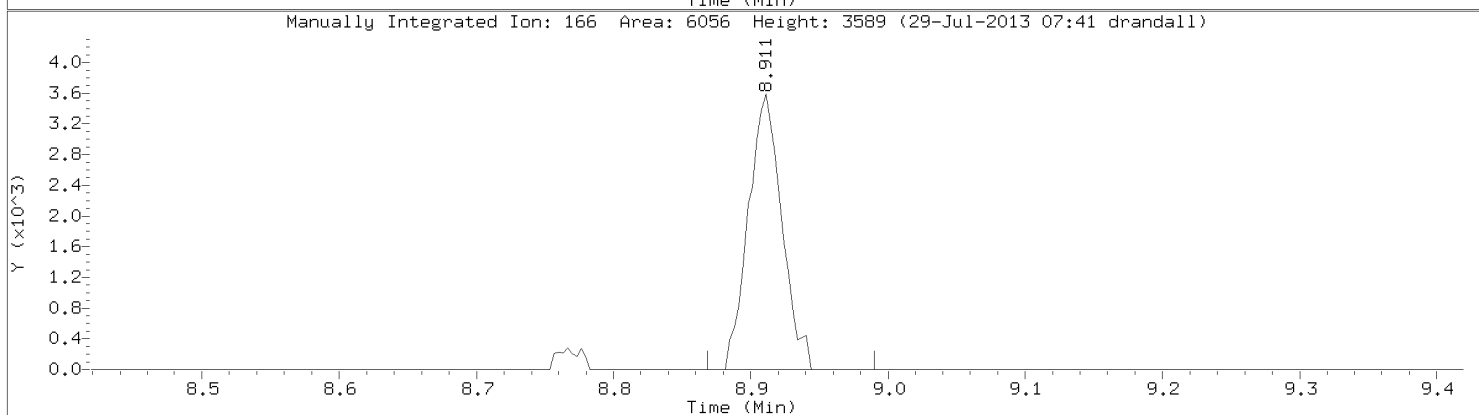
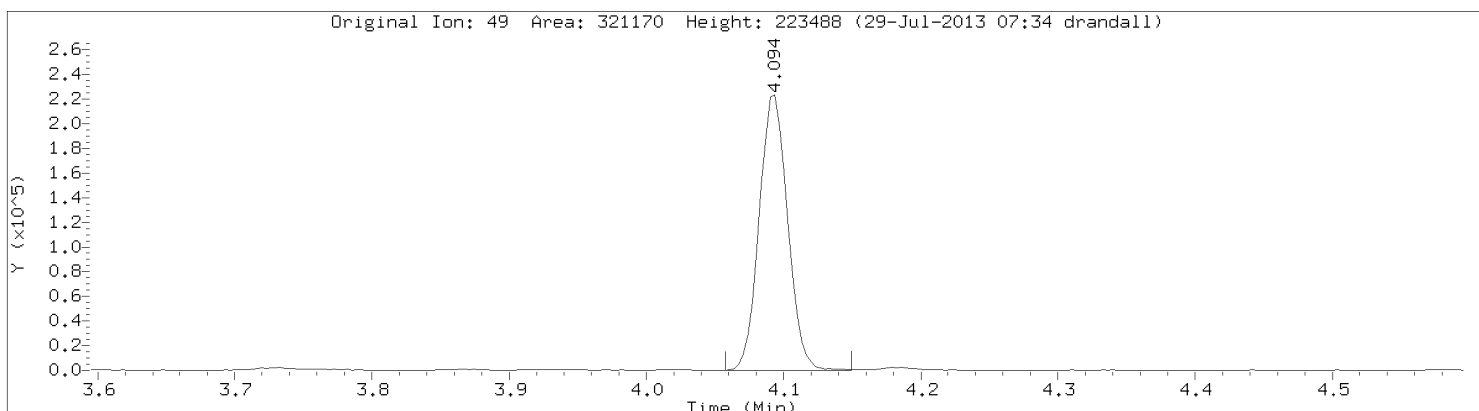
Column diameter: 0.32



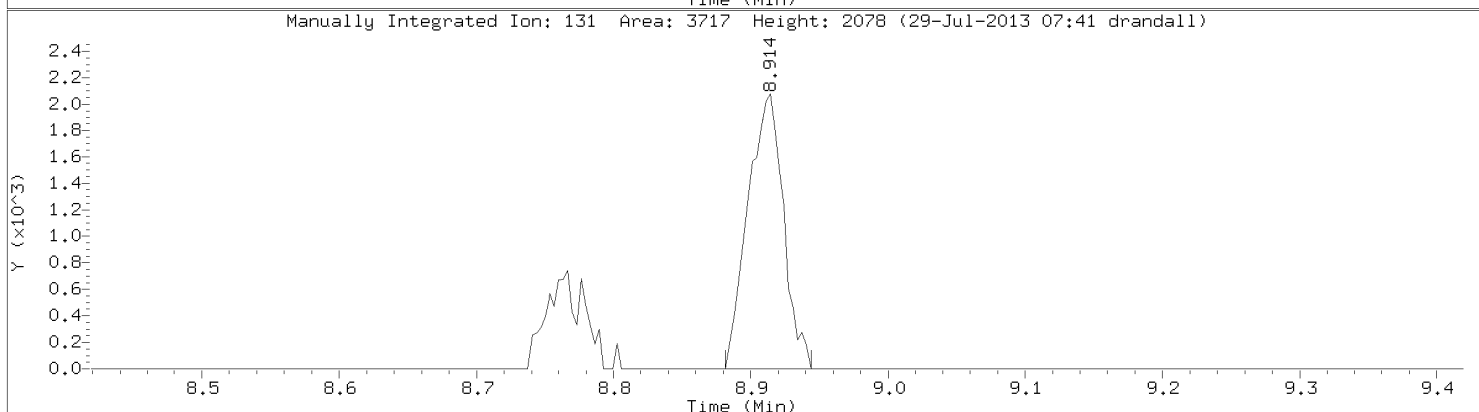
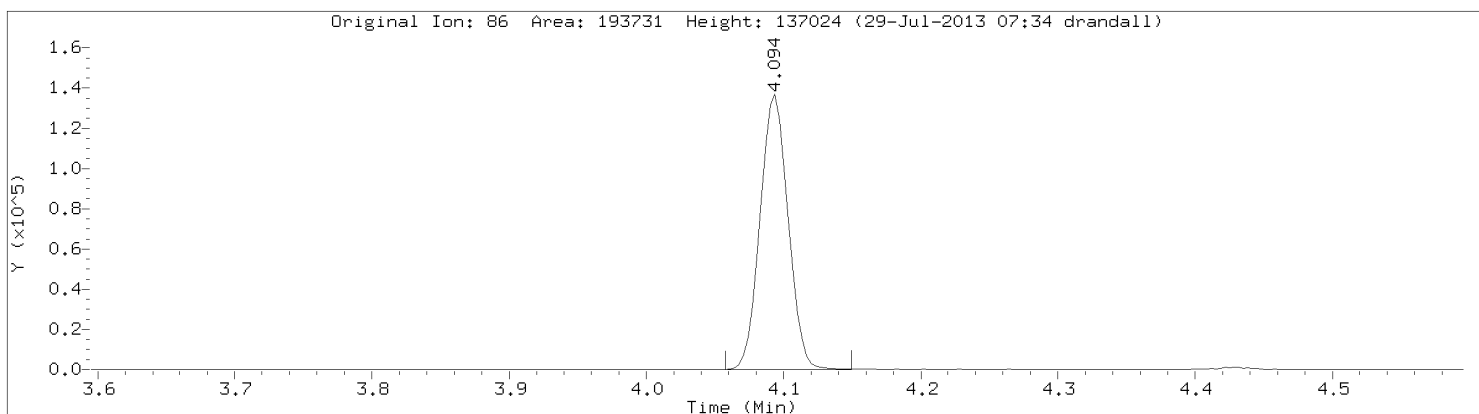


Data File: \\192.168.10.12\chem\10airD.i\072613.b\20708.d
Injection Date: 26-JUL-2013 14:39
Instrument: 10airD.i
Lab Sample ID: 10236207003

Compound: Tetrachloroethene
CAS Number: 127-18-4



Data File: \\192.168.10.12\chem\10airD.i\072613.b\20708.d
Injection Date: 26-JUL-2013 14:39
Instrument: 10airD.i
Lab Sample ID: 10236207003



Data File: \\192.168.10.12\chem\10airD.i\072513.b\20632.d
 Report Date: 26-Jul-2013 08:38

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072513.b\20632.d
 Lab Smp Id: 10236207004
 Inj Date : 26-JUL-2013 04:34
 Operator : DR1
 Smp Info :
 Misc Info : 17870
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
 Meth Date : 25-Jul-2013 16:57 creindl Quant Type: ISTD
 Cal Date : 24-JUL-2013 16:39 Cal File: 20509.d
 Als bottle: 32
 Dil Factor: 1.49000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: 10AIRPC4

Inst ID: 10airD.i

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.490	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
1 Propylene	41		2.968	2.982	(0.487)	706966	75.9324	113 (A)
2 Dichlorodifluoromethane	85		2.998	3.008	(0.492)	21548	0.24126	0.359
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		3.516	3.494	(0.577)	27616	2.59540	3.87 (M)
10 Vinyl Bromide	106							Compound Not Detected.
11 Acrolein	56							Compound Not Detected.
12 Trichlorofluoromethane	101		3.700	3.694	(0.608)	14324	0.14744	0.220 (M)
13 Acetone	43		3.729	3.726	(0.612)	428168	8.79196	13.1 (Q)
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		3.988	3.989	(0.655)	32991	0.64573	0.962 (QM)
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		4.231	4.224	(0.695)	35128	0.43750	0.652
22 trans-1,2-dichloroethene	96							Compound Not Detected.
23 Methyl Tert Butyl Ether	73							Compound Not Detected.

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
24 Vinyl Acetate	43		Compound Not Detected.					
25 1,1-Dichloroethane	63		Compound Not Detected.					
\$ 26 Hexane-d14 (S)	66		4.703	4.700	(0.772)	300588	8.47361	8.47
27 Methyl Ethyl Ketone	72		4.775	4.779	(0.784)	32472	2.88000	4.29 (Q)
28 n-Hexane	57		4.818	4.818	(0.791)	138947	4.30876	6.42 (M)
29 cis-1,2-Dichloroethene	96		Compound Not Detected.					
30 Ethyl Acetate	43		4.998	4.999	(0.821)	67083	2.05900	3.07 (QM)
31 Chloroform	83		Compound Not Detected.					
32 Tetrahydrofuran	42		Compound Not Detected.					
33 1,1,1-Trichloroethane	97		Compound Not Detected.					
34 1,2-Dichloroethane	62		Compound Not Detected.					
35 Benzene	78		5.880	5.887	(0.966)	1414662	20.9726	31.2
36 Carbon tetrachloride	117		Compound Not Detected.					
37 Cyclohexane	56		Compound Not Detected.					
* 38 1,4-Difluorobenzene	114		6.090	6.094	(1.000)	734601	10.0000	
39 2,2,4-Trimethylpentane	57		6.267	6.271	(1.029)	79291	1.39199	2.07 (QM)
40 Heptane	43		6.431	6.442	(1.056)	73182	3.24243	4.83
41 1,2-Dichloropropane	63		Compound Not Detected.					
42 Trichloroethene	130		Compound Not Detected.					
43 1,4-Dioxane	88		Compound Not Detected.					
44 Bromodichloromethane	83		Compound Not Detected.					
45 Methyl Isobutyl Ketone	43		Compound Not Detected.					
46 cis-1,3-Dichloropropene	75		Compound Not Detected.					
47 trans-1,3-Dichloropropene	75		Compound Not Detected.					
\$ 48 Toluene-d8 (S)	98		7.841	7.848	(1.288)	529919	10.3290	10.3
49 Toluene	91		7.933	7.940	(1.303)	1786538	20.2532	30.2
50 1,1,2-Trichloroethane	97		Compound Not Detected.					
51 Methyl Butyl Ketone	43		Compound Not Detected.					
52 Dibromochloromethane	129		Compound Not Detected.					
53 1,2-Dibromoethane	107		Compound Not Detected.					
54 Tetrachloroethene	166		8.910	8.918	(0.920)	7267	0.53985	0.804
* 55 Chlorobenzene - d5	117		9.681	9.691	(1.000)	283539	10.0000	
56 Chlorobenzene	112		Compound Not Detected.					
57 Ethyl Benzene	91		10.032	10.039	(1.036)	326688	3.23109	4.81
58 m&p-Xylene	91		10.203	10.213	(1.054)	731282	8.50205	12.7
59 Bromoform	173		Compound Not Detected.					
60 Styrene	104		10.698	10.708	(1.105)	22244	0.84378	1.26
61 o-Xylene	91		10.776	10.783	(1.113)	229092	2.69110	4.01
62 1,1,2,2-Tetrachloroethane	83		Compound Not Detected.					
63 Isopropylbenzene	105		Compound Not Detected.					
64 N-Propylbenzene	91		12.114	12.121	(1.251)	41541	0.59842	0.892 (M)
65 4-Ethyltoluene	105		12.311	12.321	(1.272)	57609	0.86247	1.28 (M)
66 1,3,5-Trimethylbenzene	105		12.413	12.426	(1.282)	43101	0.75315	1.12 (M)
67 1,2,4-Trimethylbenzene	105		13.013	13.020	(1.344)	153160	2.04946	3.05
68 1,3-Dichlorobenzene	146		Compound Not Detected.					
69 Sec- Butylbenzene	105		Compound Not Detected.					
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.449	13.459	(1.389)	107897	9.42750	9.43
71 Benzyl Chloride	91		Compound Not Detected.					
72 1,4-Dichlorobenzene	146		Compound Not Detected.					
73 1,2-Dichlorobenzene	146		Compound Not Detected.					
74 N-Butylbenzene	91		Compound Not Detected.					
75 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
76 Naphthalene	128		16.856	16.860	(1.741)	43939	1.35880	2.02
77 Hexachlorobutadiene	225		Compound Not Detected.					

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20632.d
Report Date: 26-Jul-2013 08:38

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
	MASS					ON-COLUMN	FINAL
=====	====	====	=====	=====	=====	=====	

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\072513.b\20632.d
Report Date: 26-Jul-2013 08:38

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 20632.d
Lab Smp Id: 10236207004
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
Misc Info: 17870

Calibration Date: 25-JUL-2013
Calibration Time: 13:08

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	734601	26.70
55 Chlorobenzene - d	221404	132842	309966	283539	28.06

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	0.00
55 Chlorobenzene - d	9.69	9.36	10.02	9.68	-0.07

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\072513.b\20632.D

Date : 26-JUL-2013 04:34

Client ID:

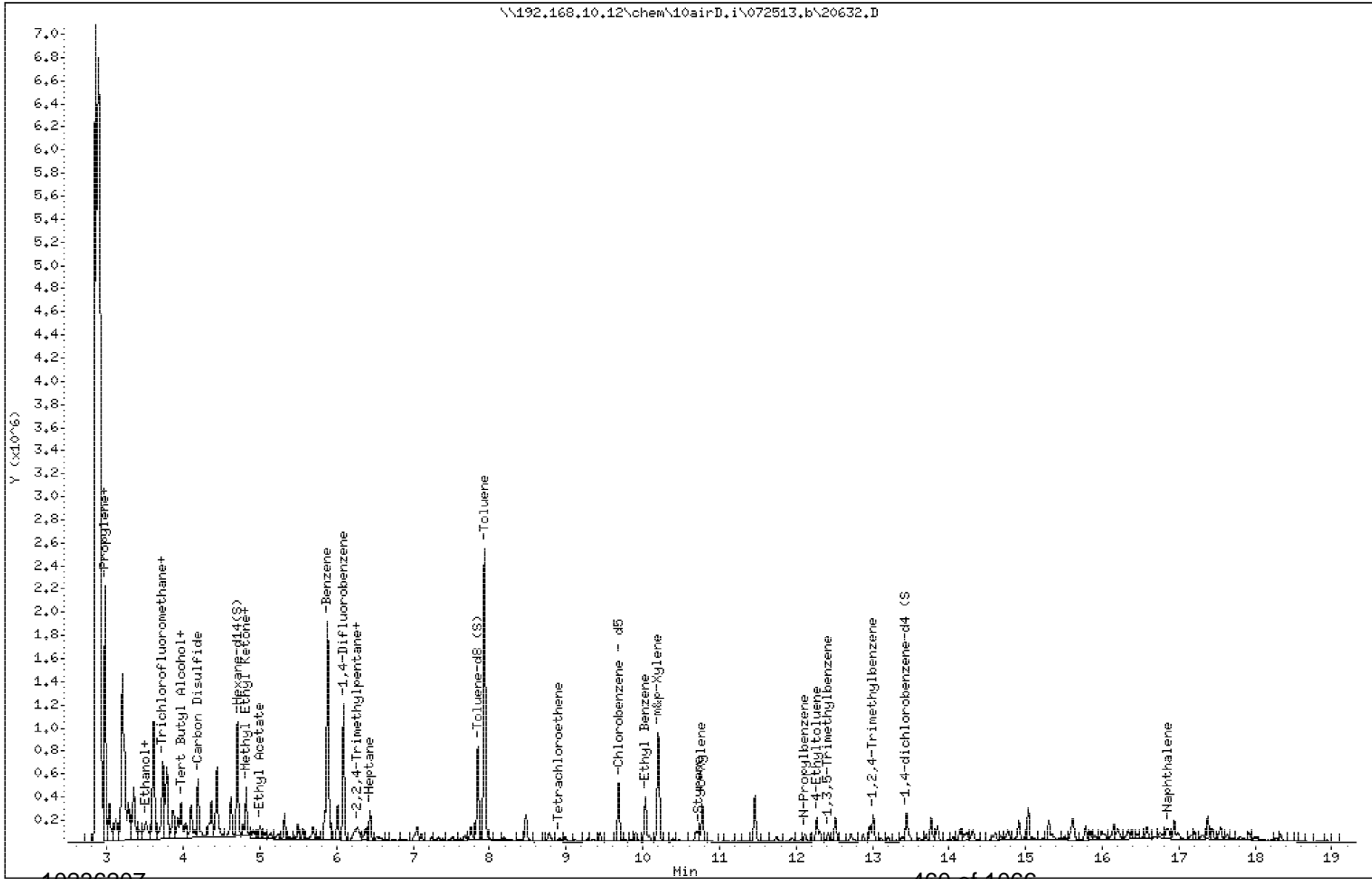
Instrument: 10airD.i

Sample Info:

Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20632.D

Date : 26-JUL-2013 04:34

Client ID:

Instrument: 10airD.i

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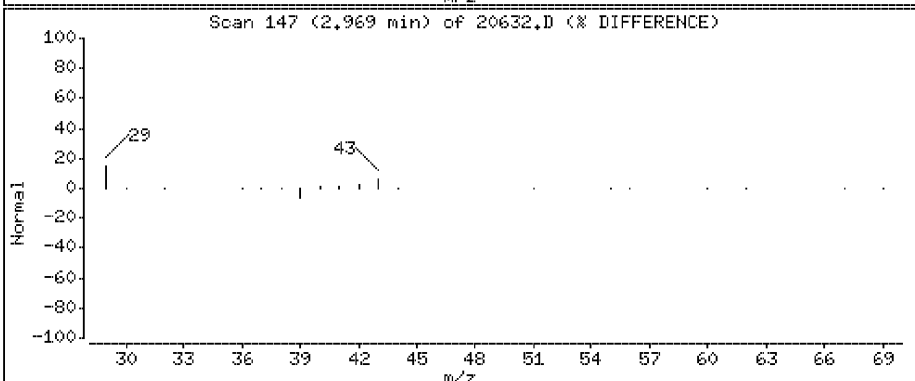
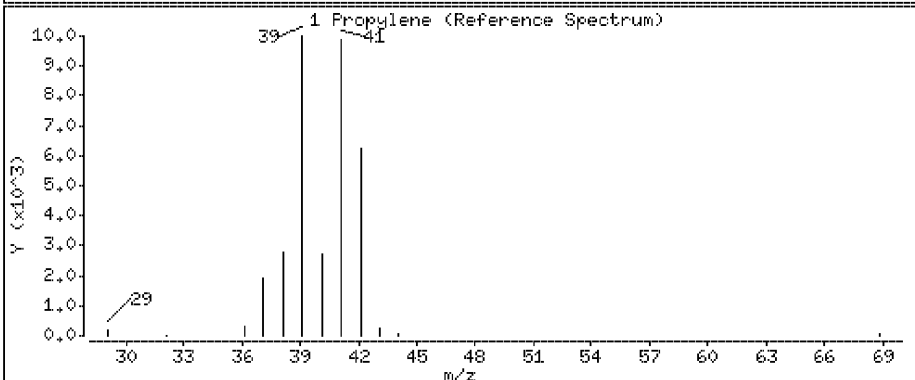
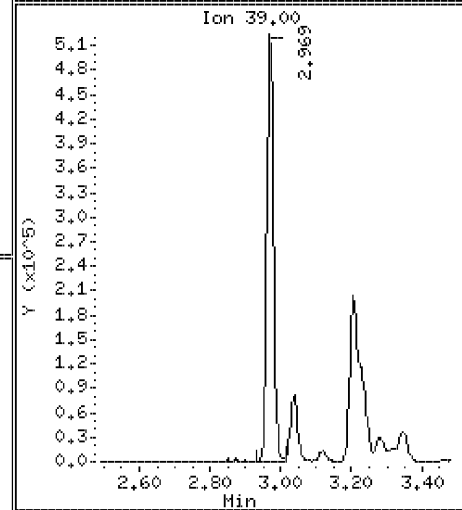
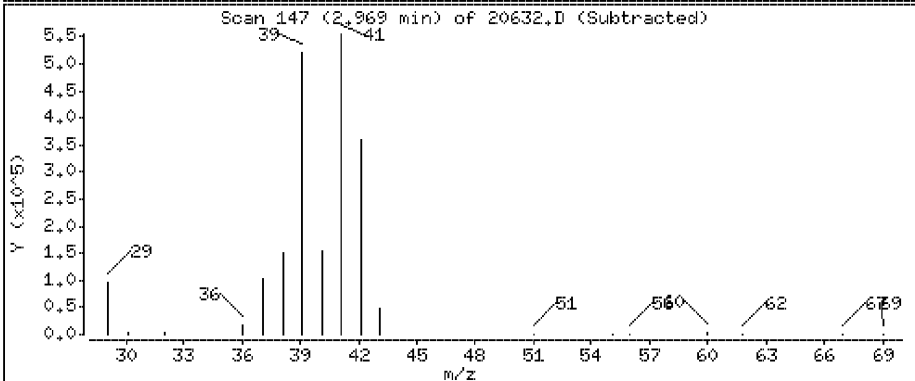
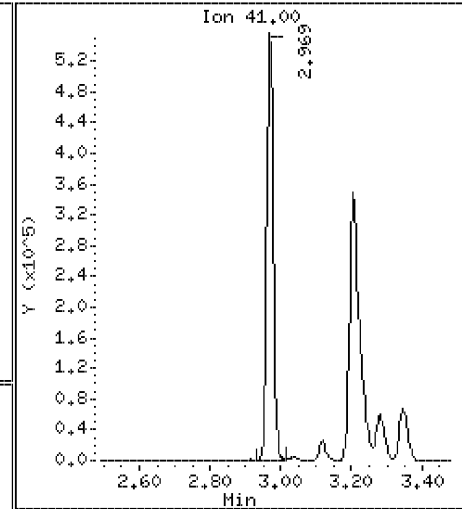
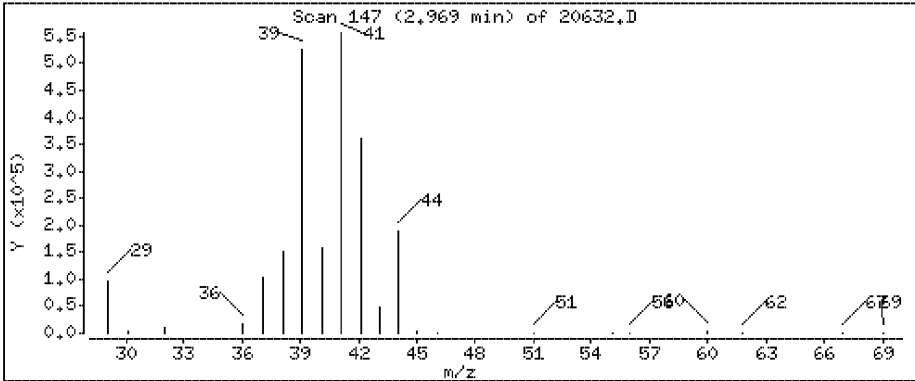
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

1 Propylene

Concentration: 113 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20632.D

Date : 26-JUL-2013 04:34

Client ID:

Instrument: 10airD.i

Sample Info:

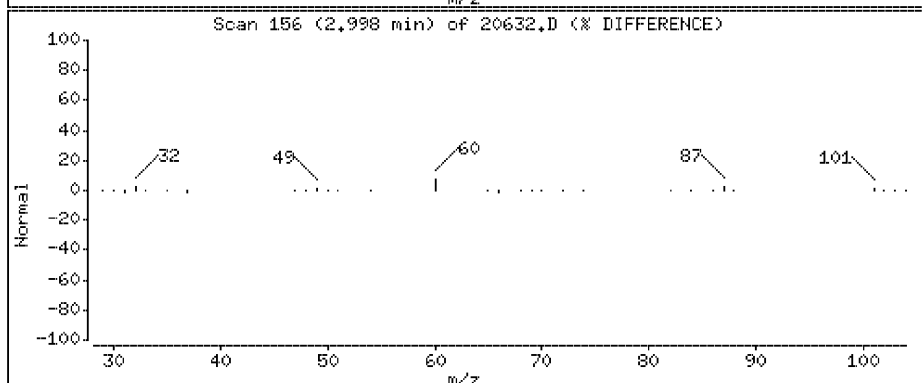
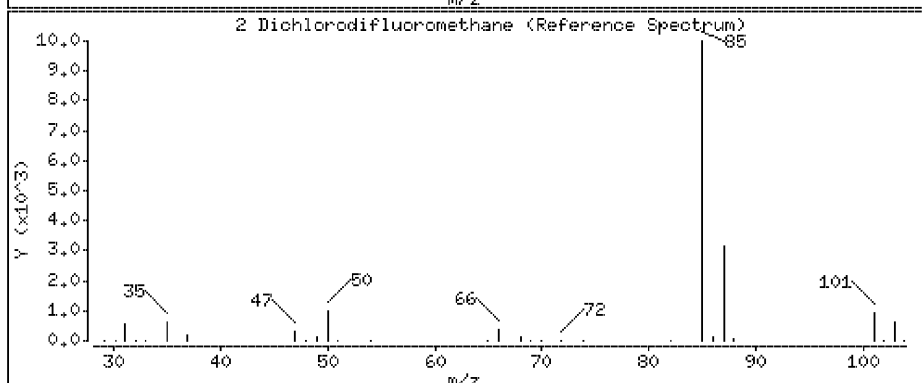
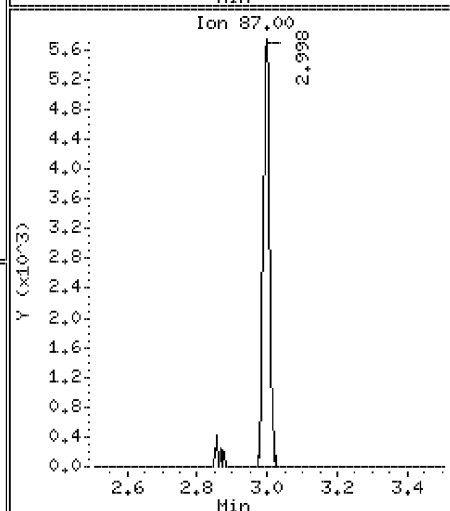
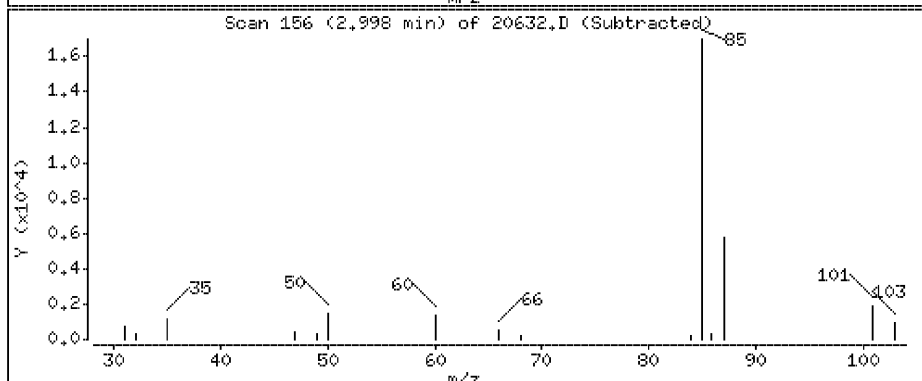
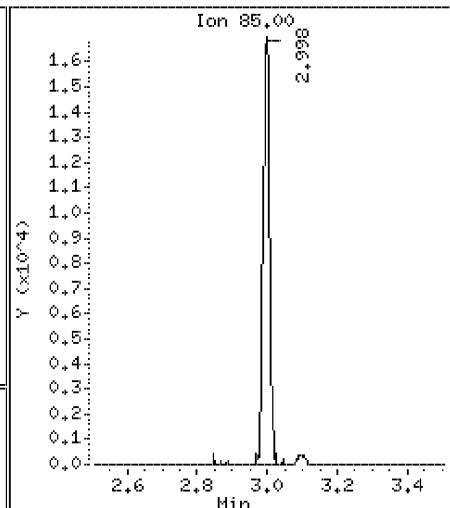
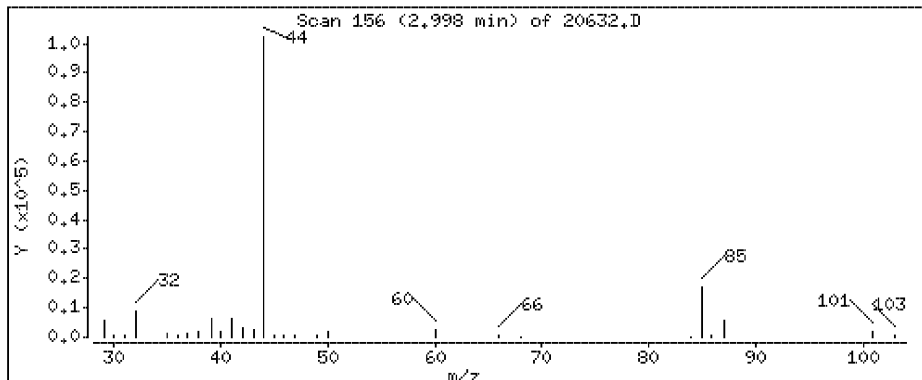
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

2 Dichlorodifluoromethane

Concentration: 0.359 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20632.D

Date : 26-JUL-2013 04:34

Client ID:

Instrument: 10airD.i

Sample Info:

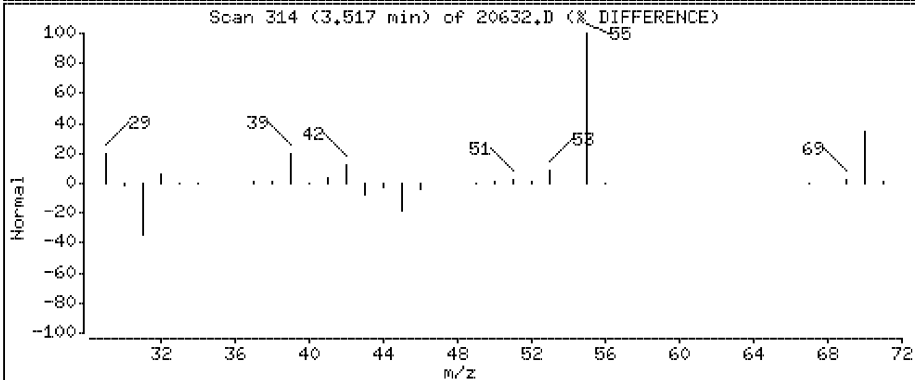
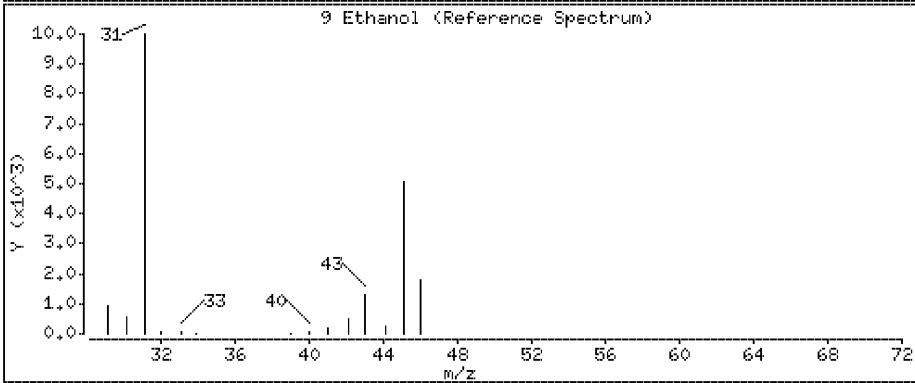
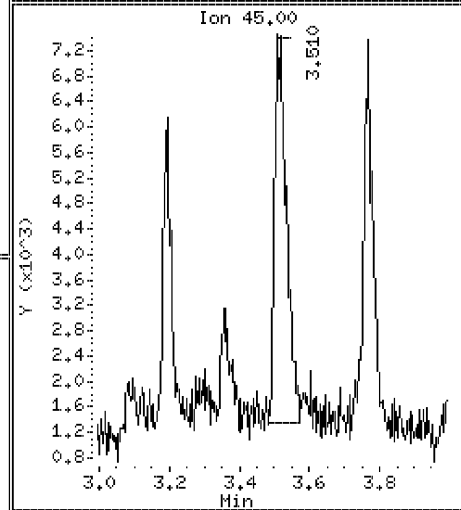
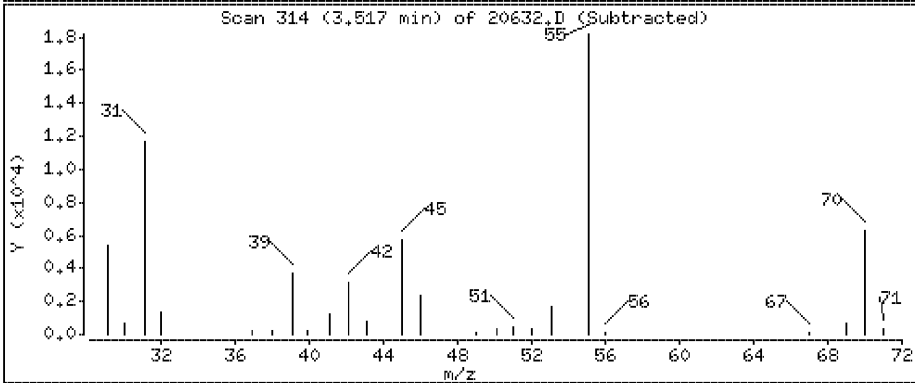
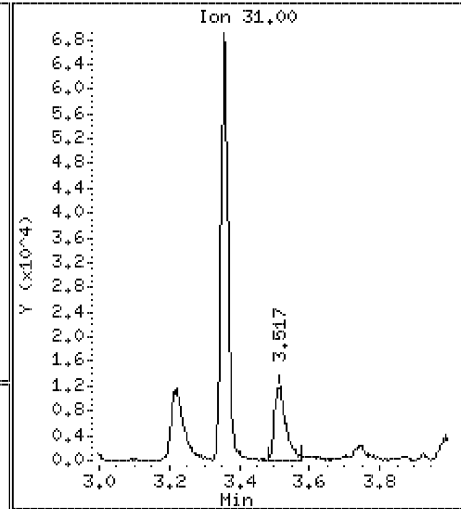
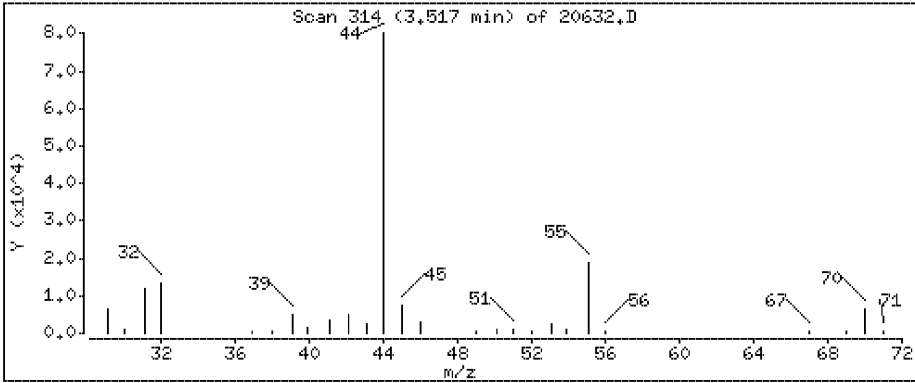
Operator: DR1

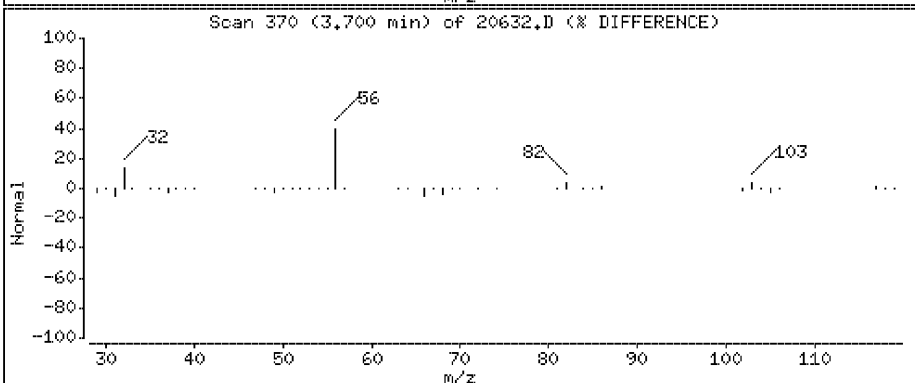
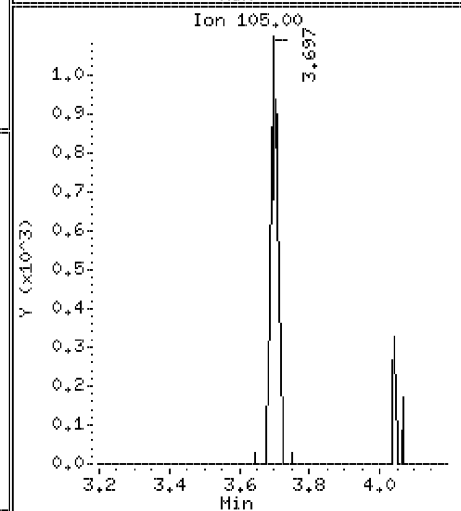
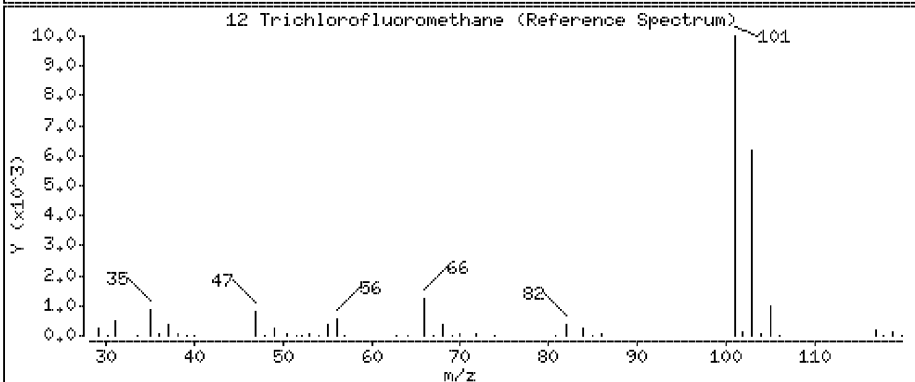
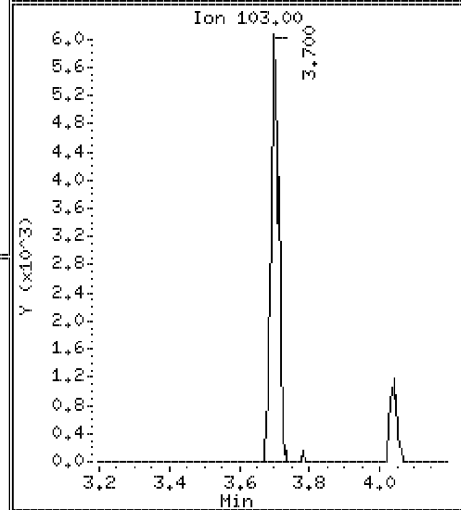
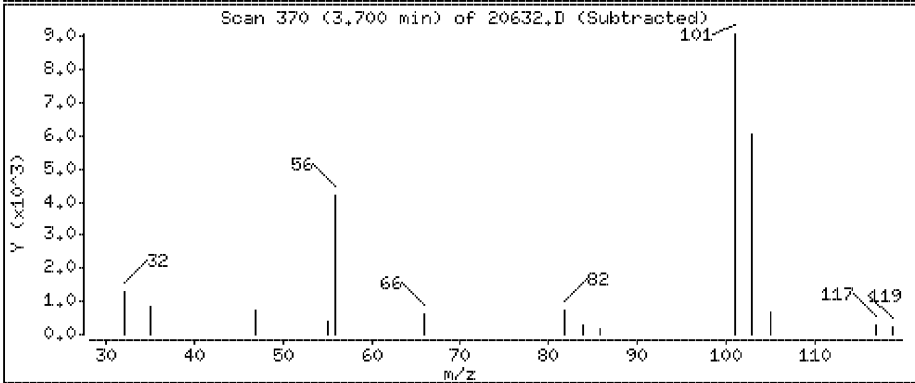
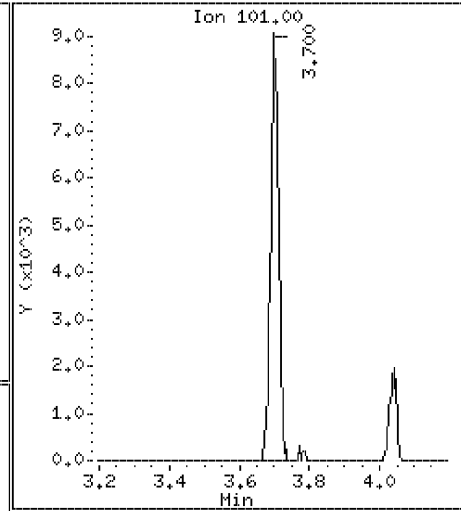
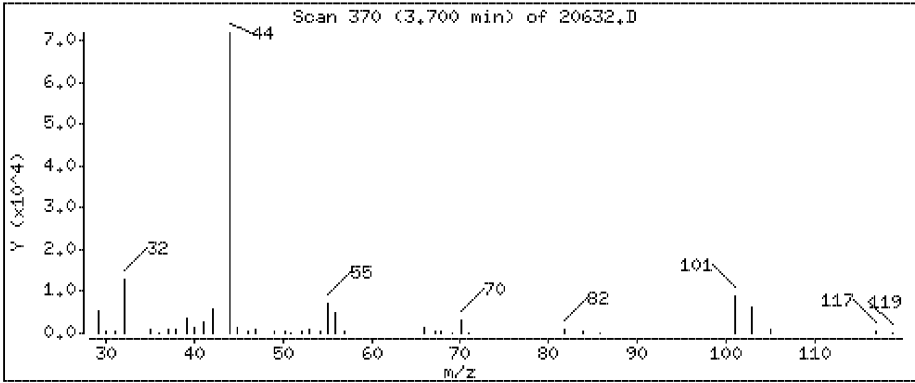
Column phase: J&W DB-5

Column diameter: 0.32

9 Ethanol

Concentration: 3.87 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20632.D

Date : 26-JUL-2013 04:34

Client ID:

Instrument: 10airD.i

Sample Info:

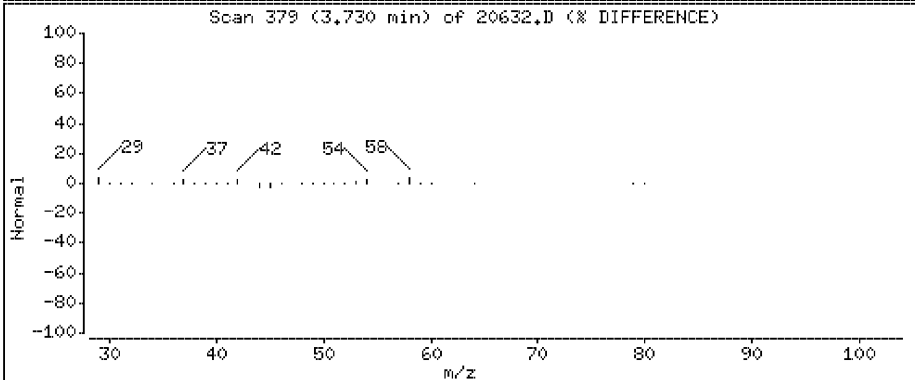
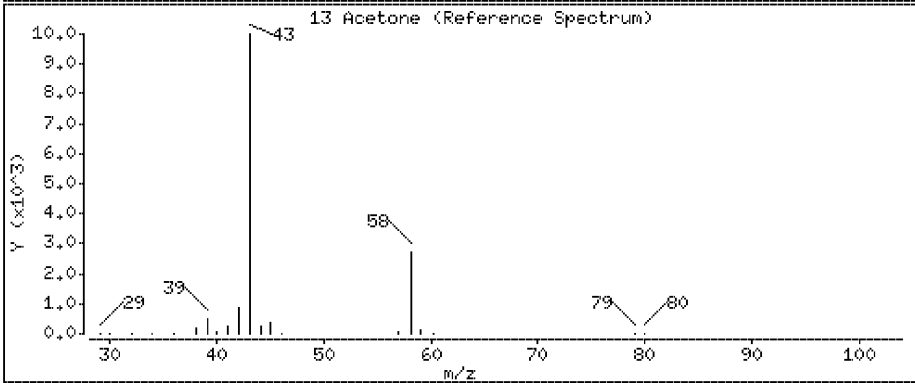
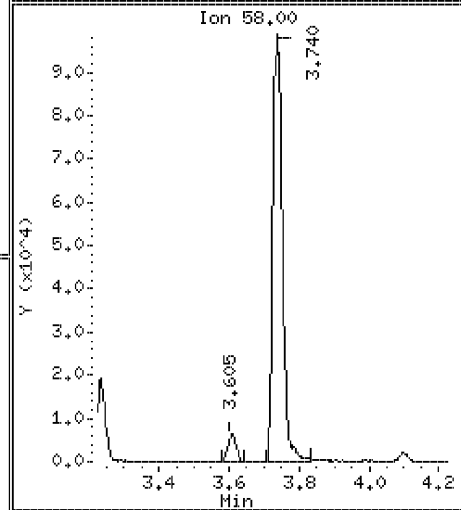
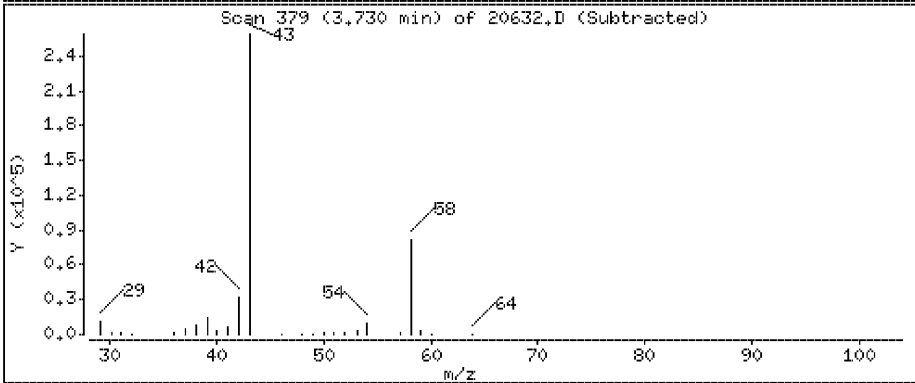
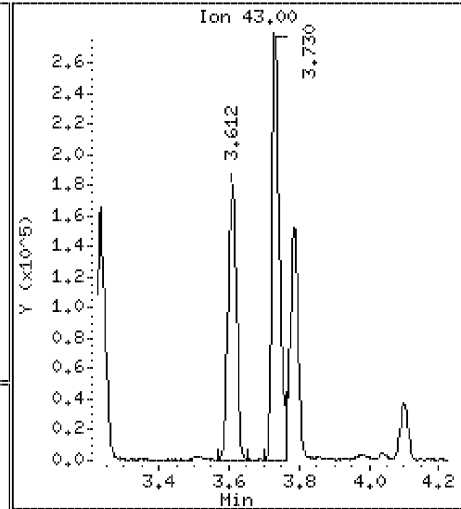
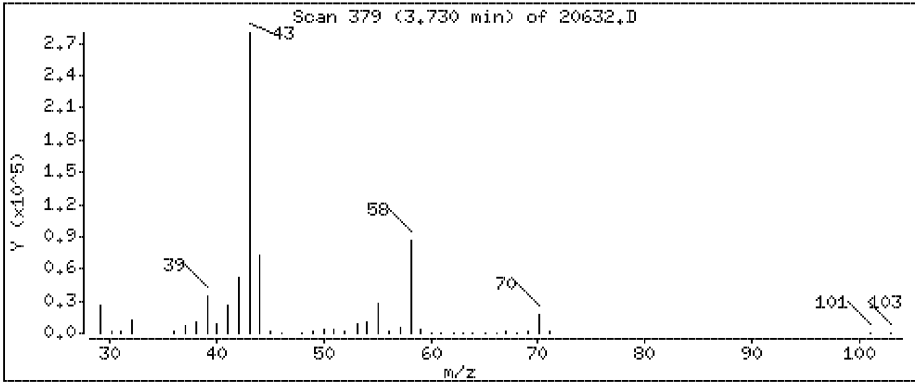
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

13 Acetone

Concentration: 13.1 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20632.D

Date : 26-JUL-2013 04:34

Client ID:

Instrument: 10airD.i

Sample Info:

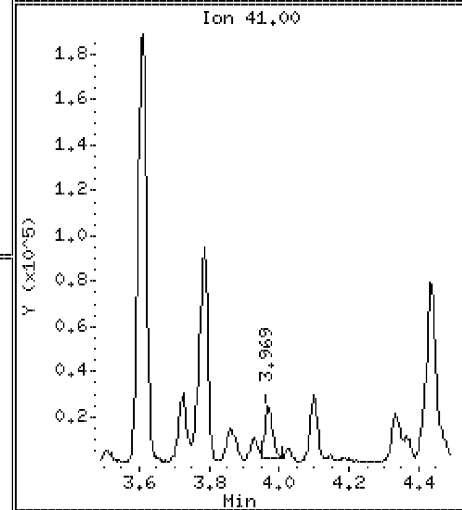
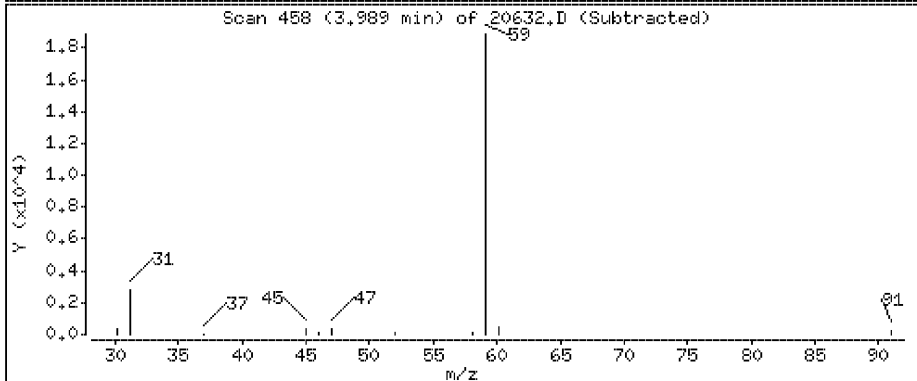
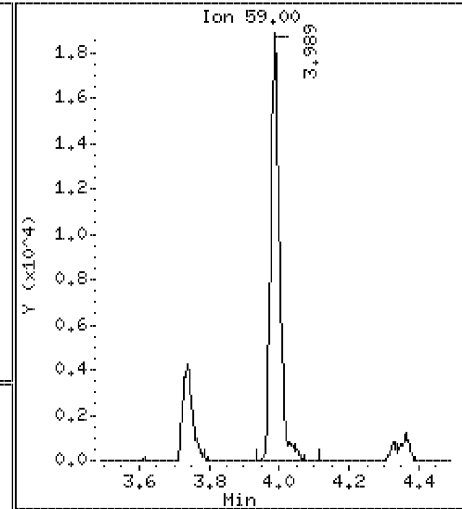
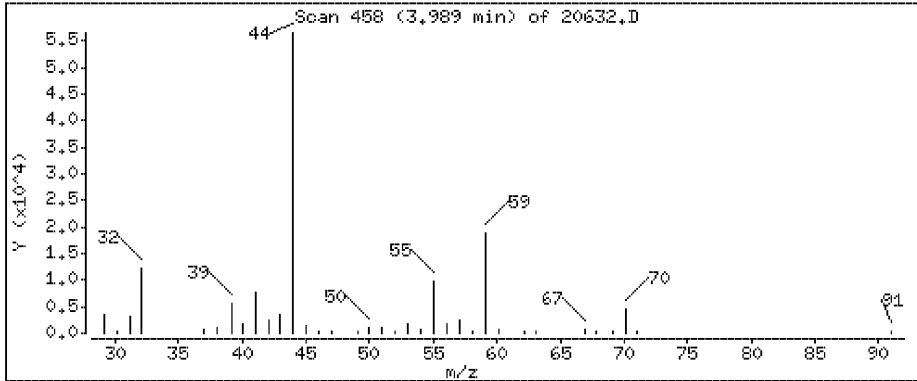
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

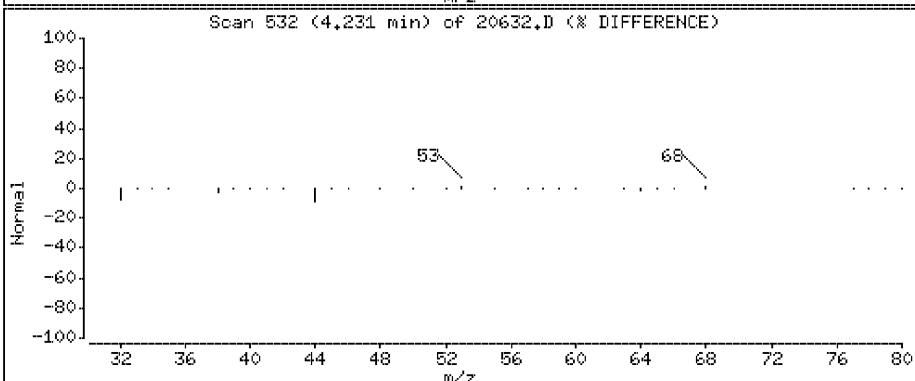
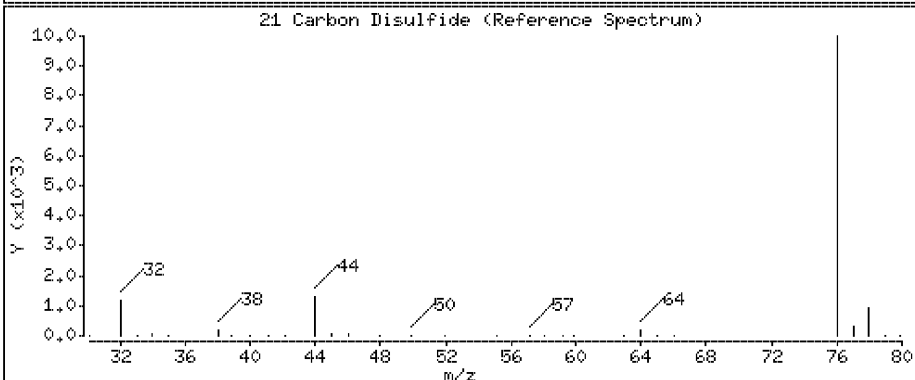
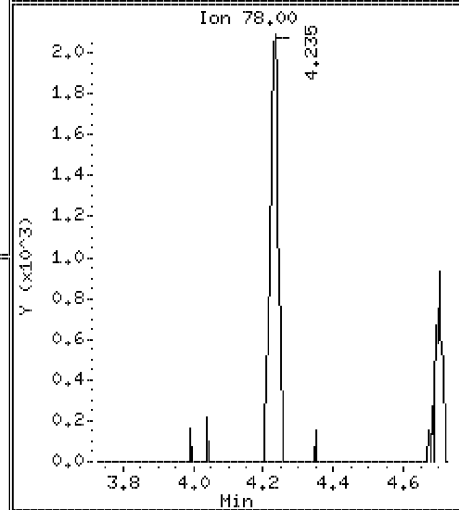
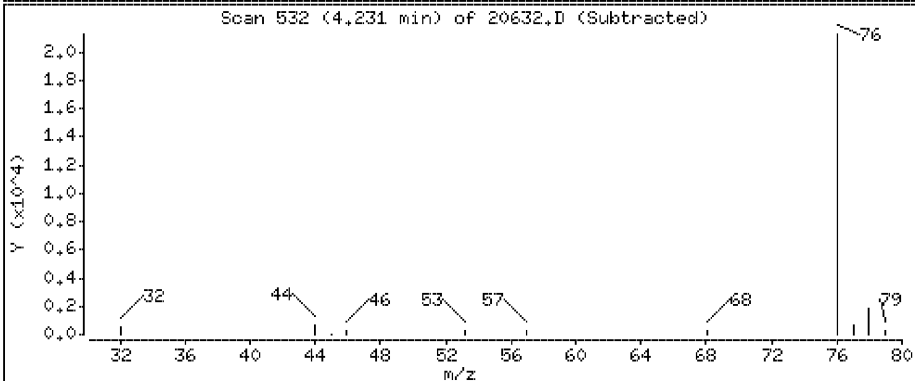
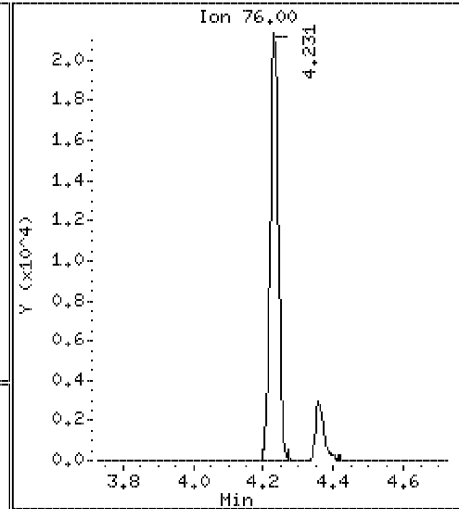
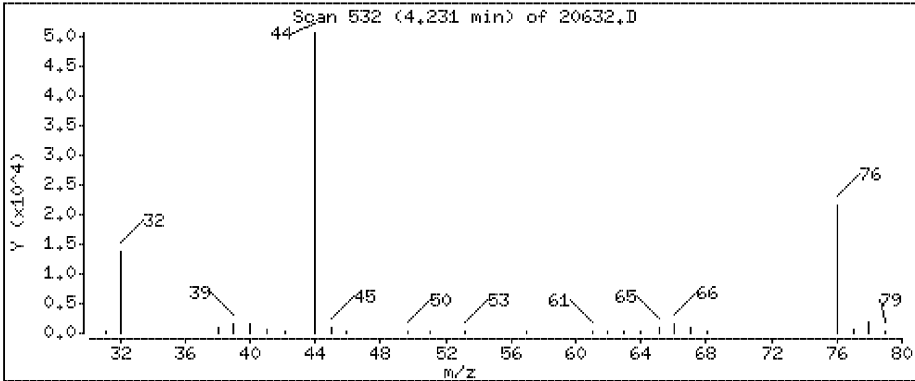
17 Tert Butyl Alcohol

Concentration: 0.962 ppbv



21 Carbon Disulfide

Concentration: 0,652 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20632.D

Date : 26-JUL-2013 04:34

Client ID:

Instrument: 10airD.i

Sample Info:

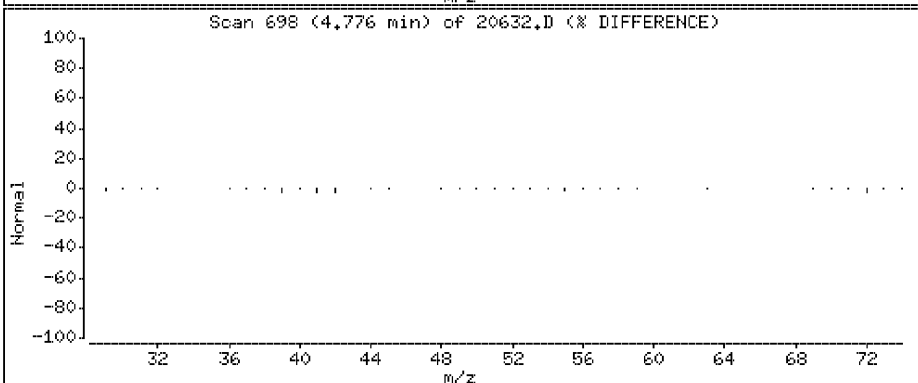
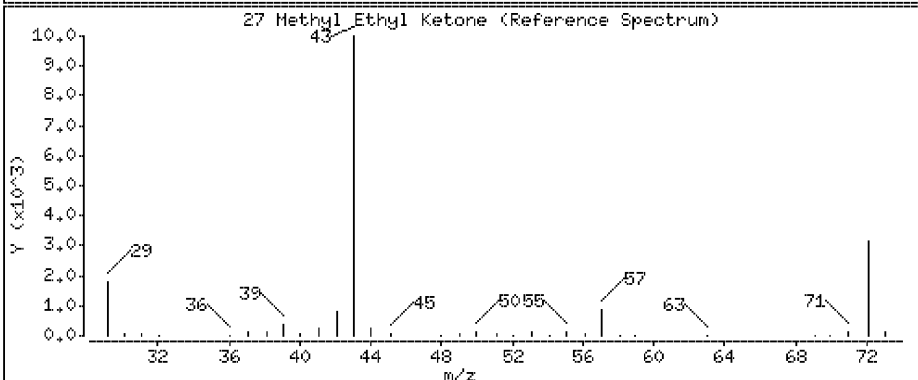
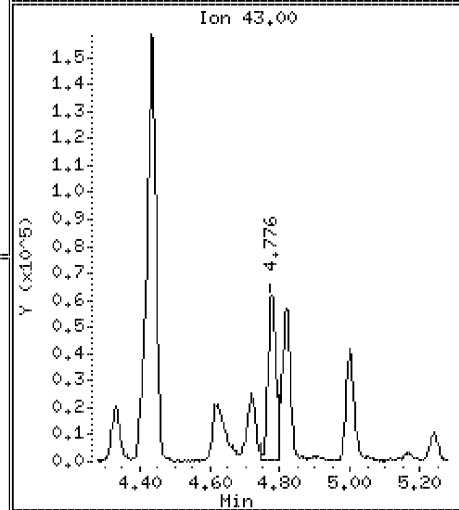
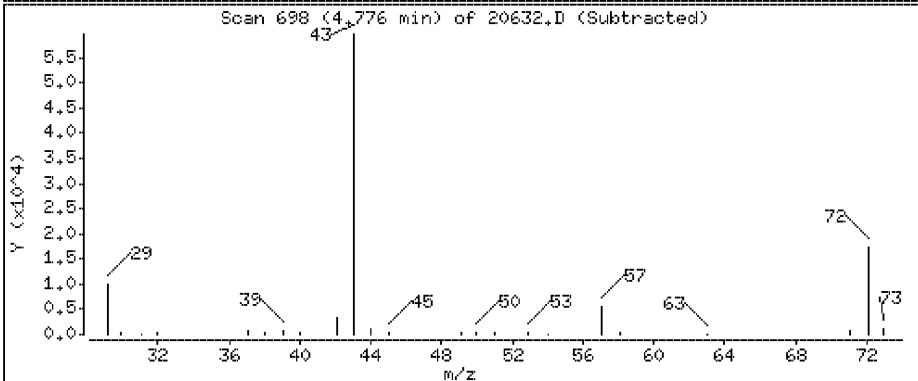
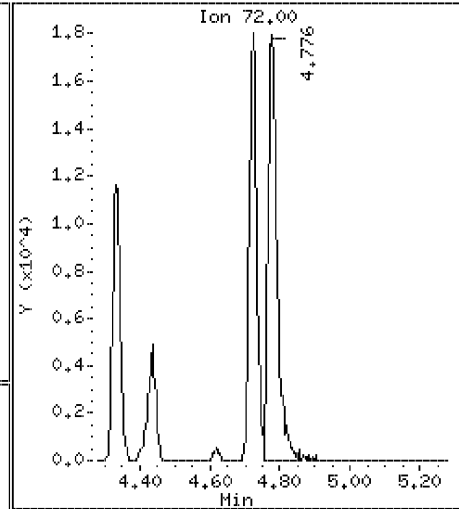
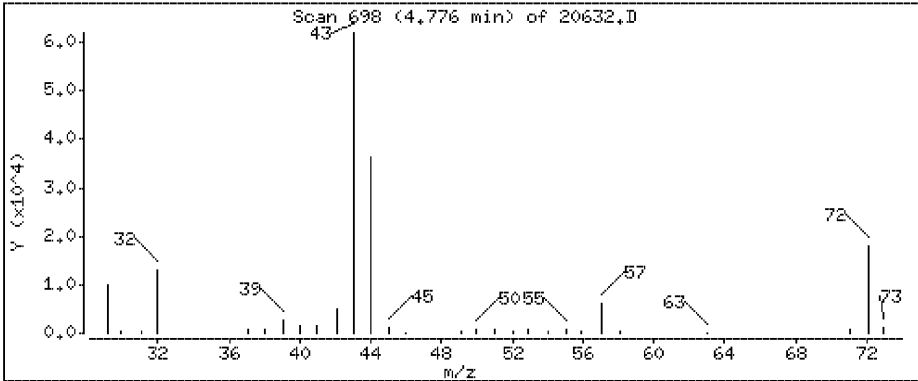
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

27 Methyl Ethyl Ketone

Concentration: 4.29 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20632.D

Date : 26-JUL-2013 04:34

Client ID:

Instrument: 10airD.i

Sample Info:

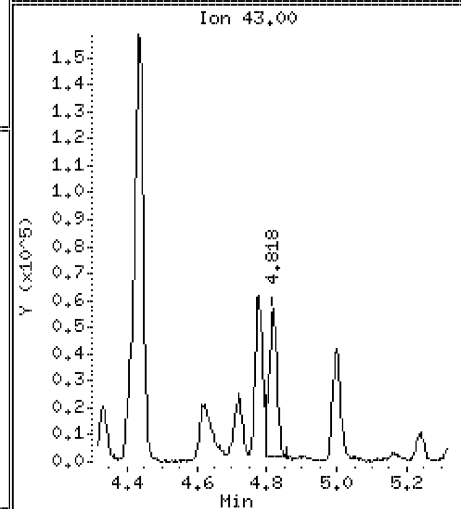
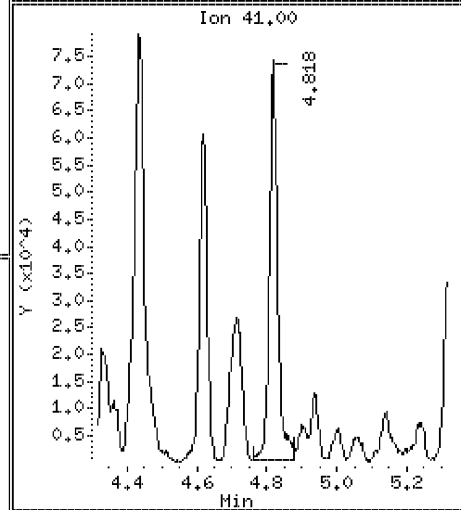
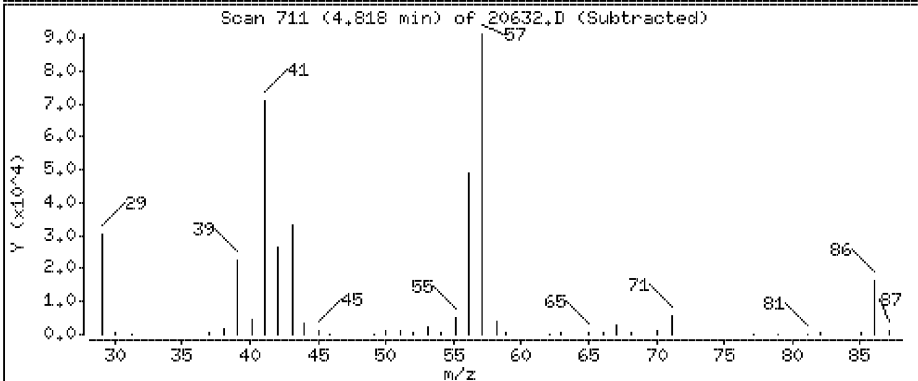
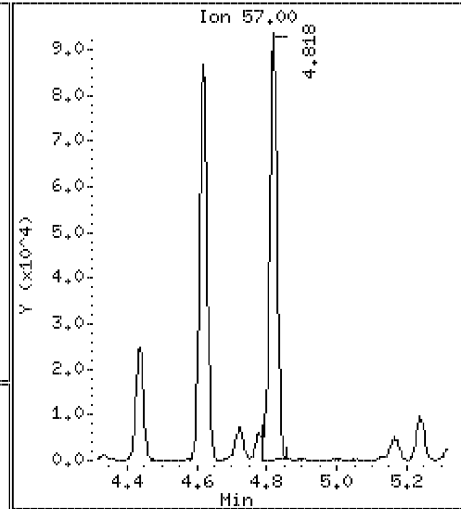
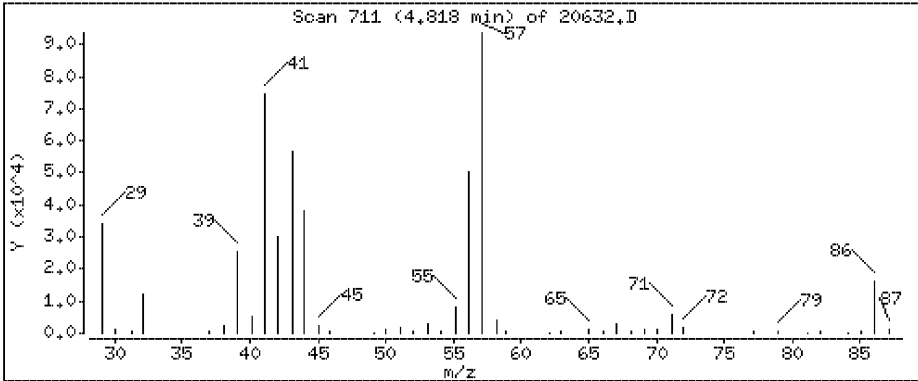
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

28 n-Hexane

Concentration: 6.42 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20632.D

Date : 26-JUL-2013 04:34

Client ID:

Instrument: 10airD.i

Sample Info:

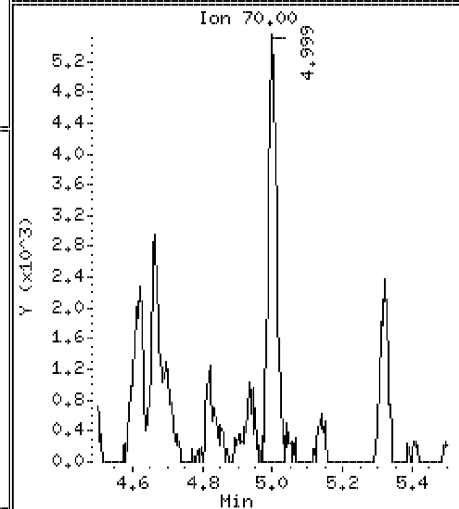
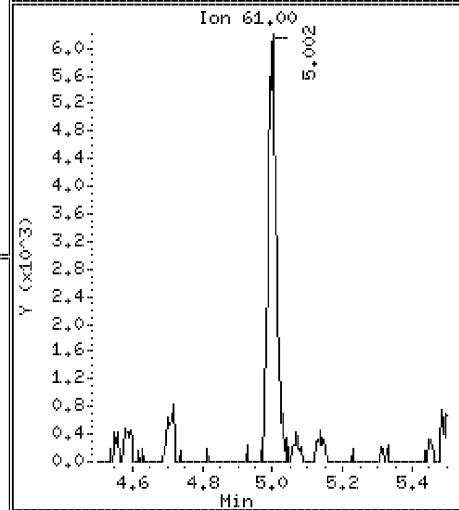
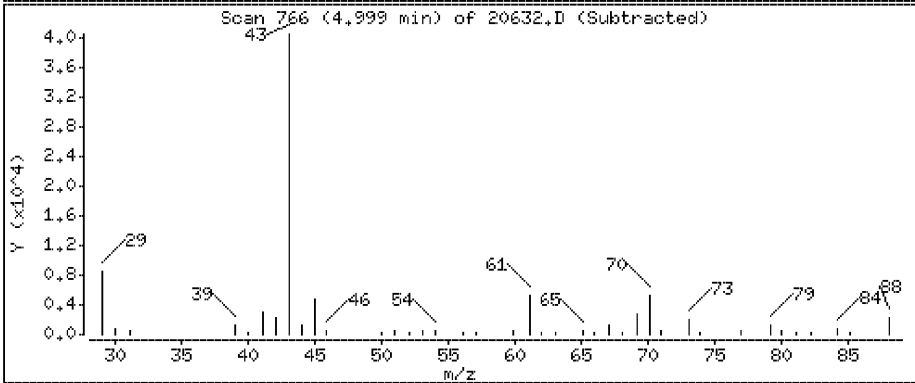
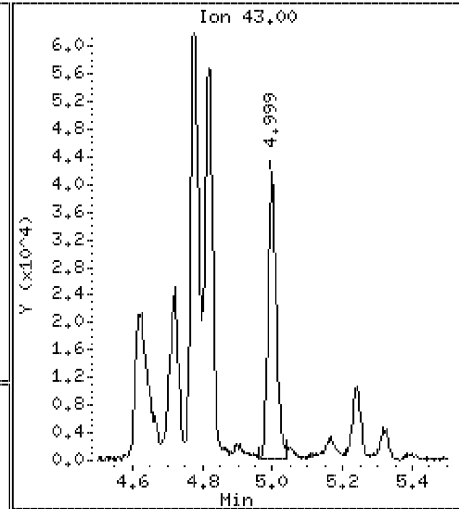
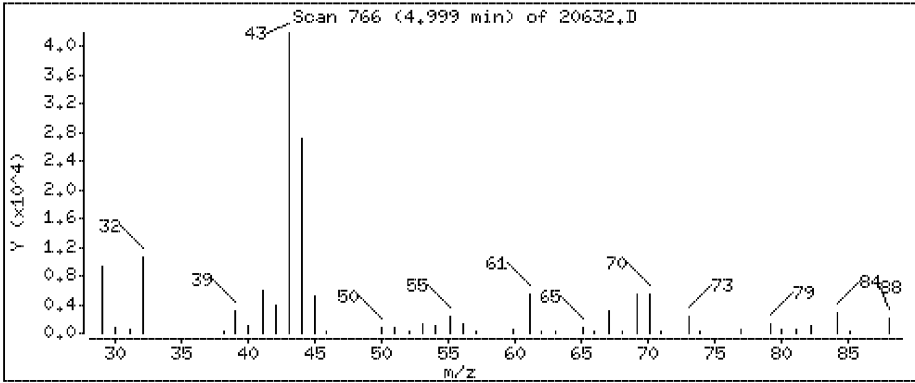
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

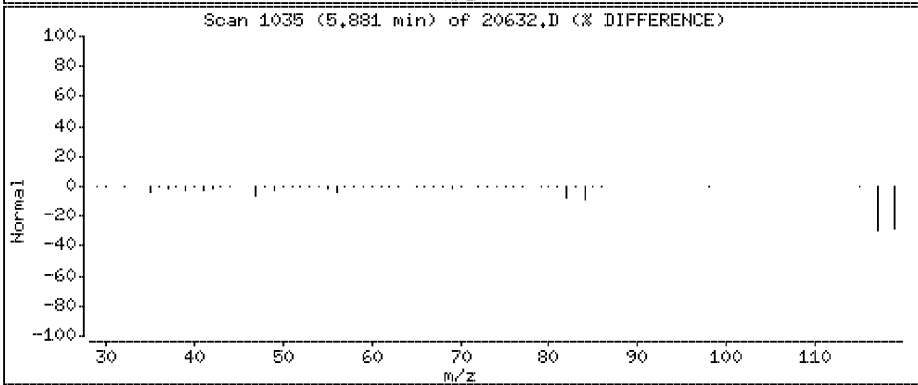
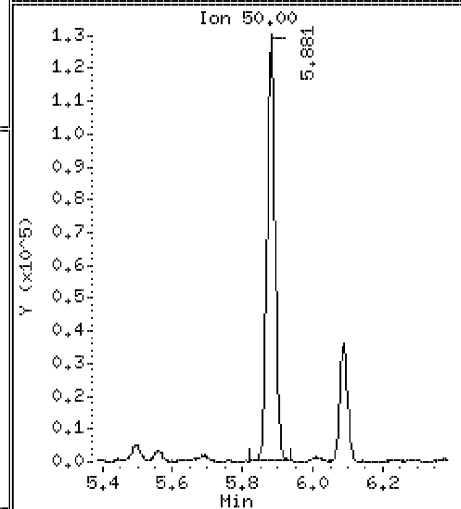
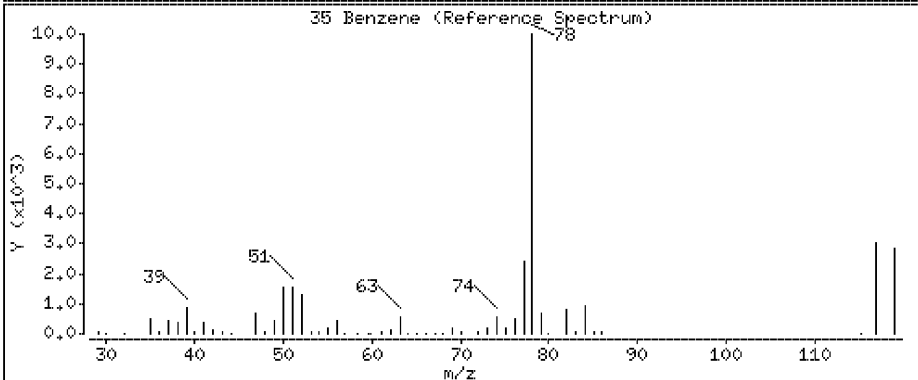
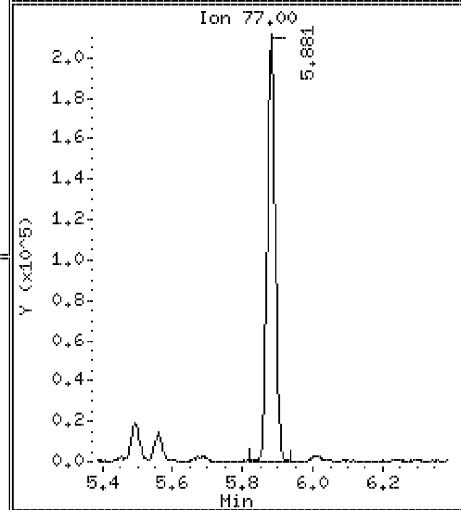
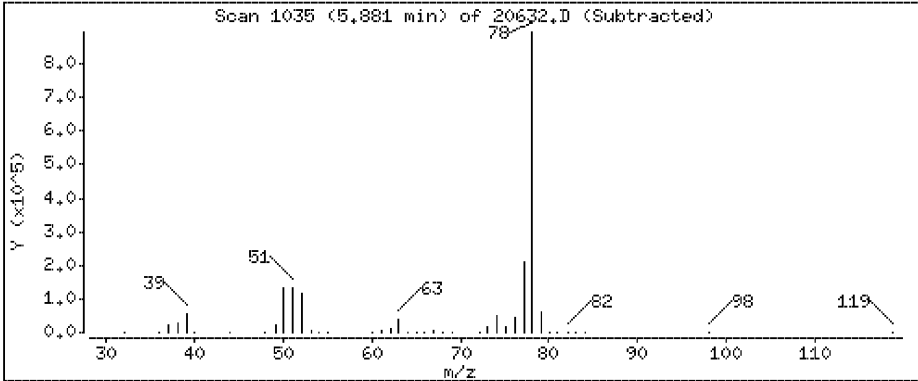
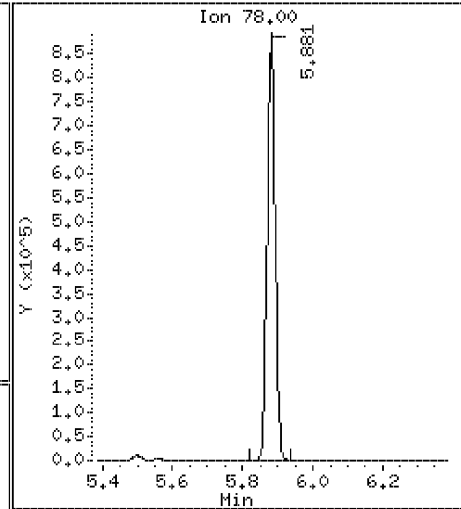
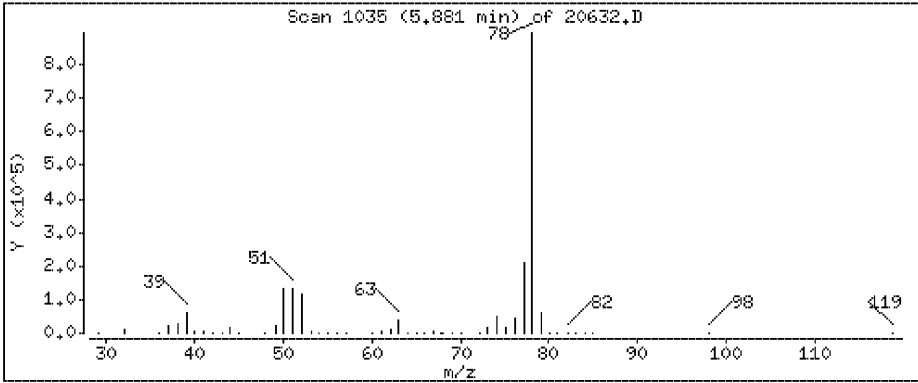
30 Ethyl Acetate

Concentration: 3.07 ppbv



35 Benzene

Concentration: 31.2 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20632.D

Date : 26-JUL-2013 04:34

Client ID:

Instrument: 10airD.i

Sample Info:

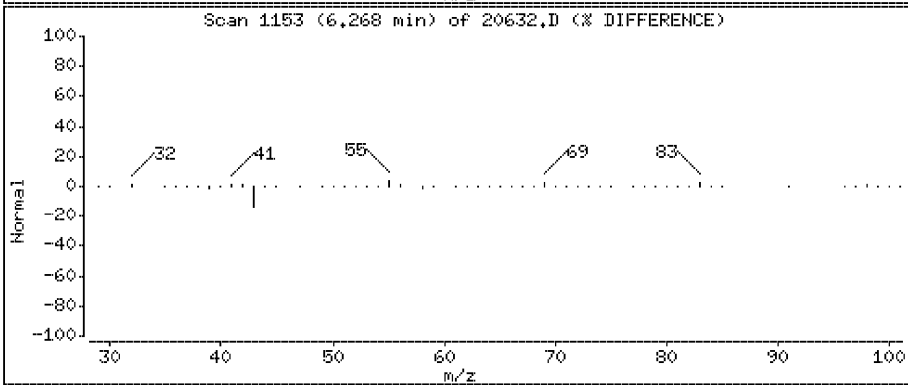
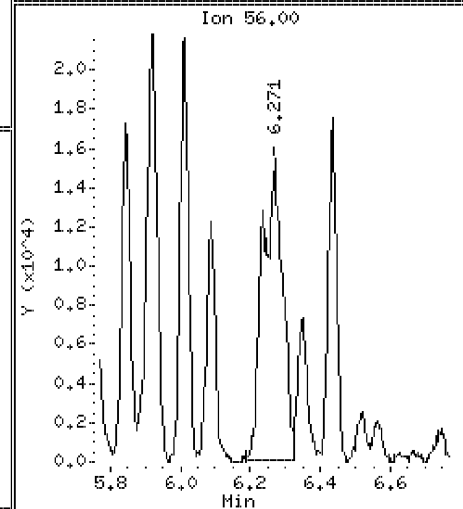
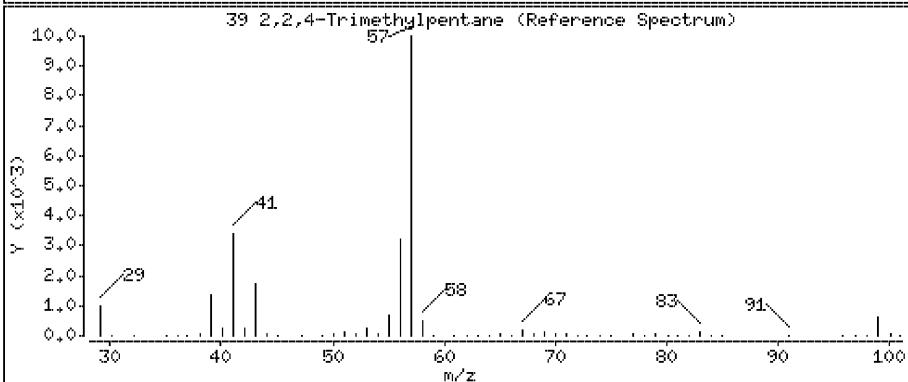
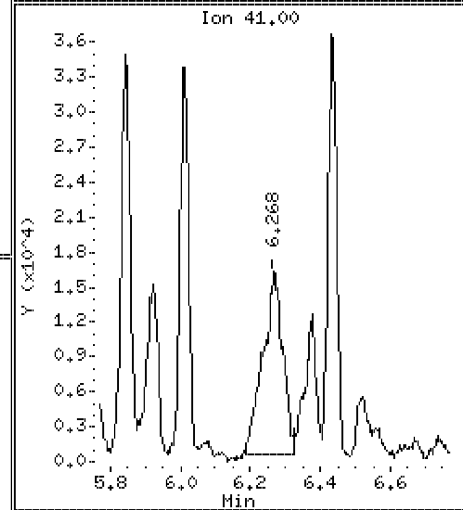
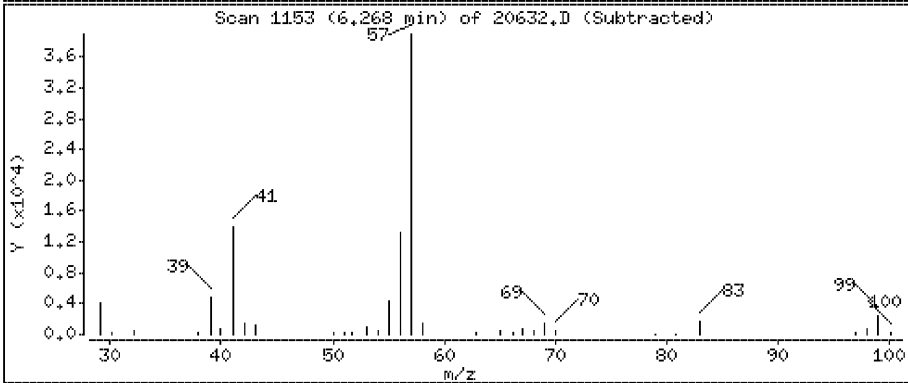
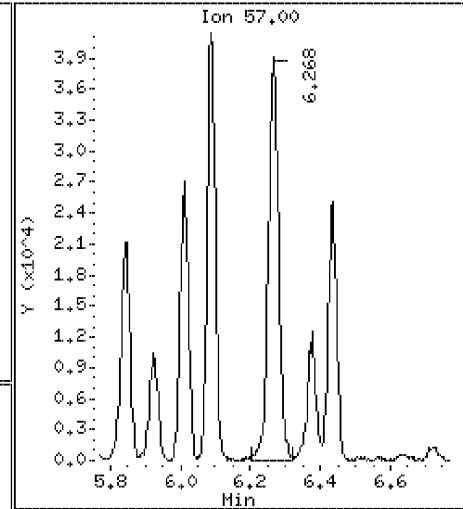
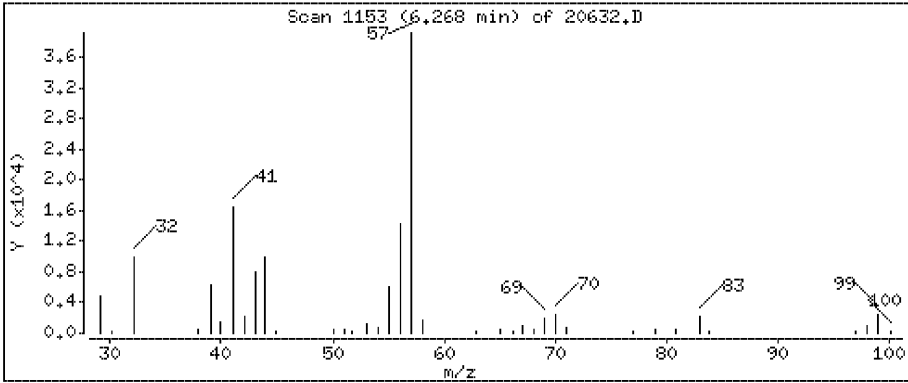
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

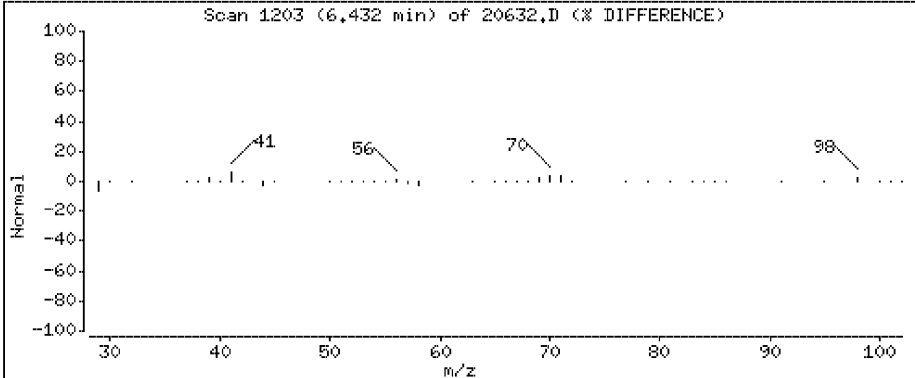
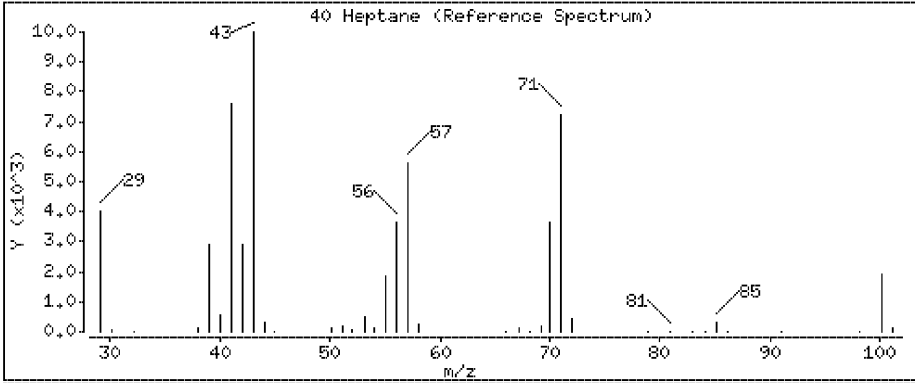
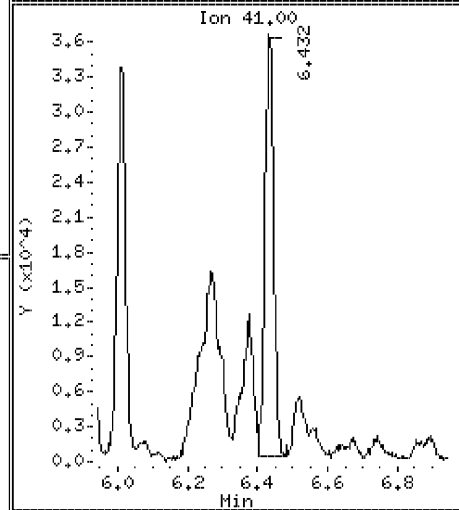
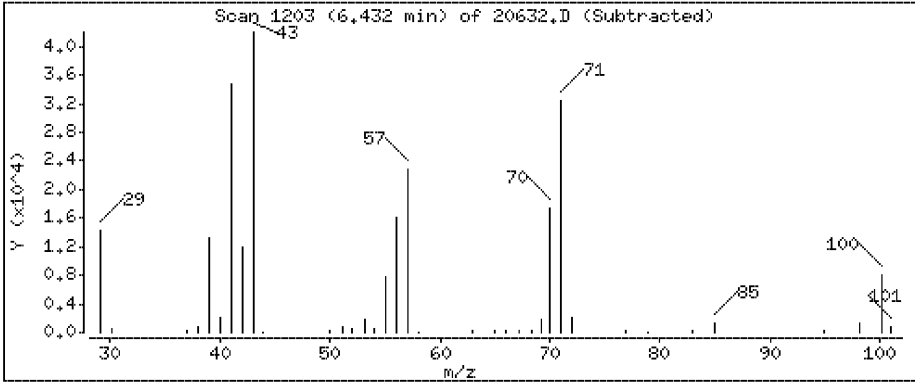
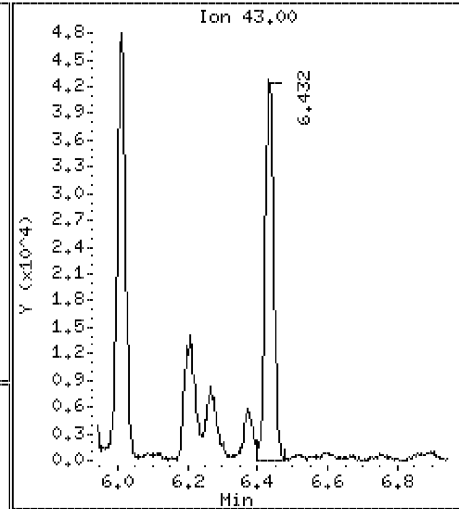
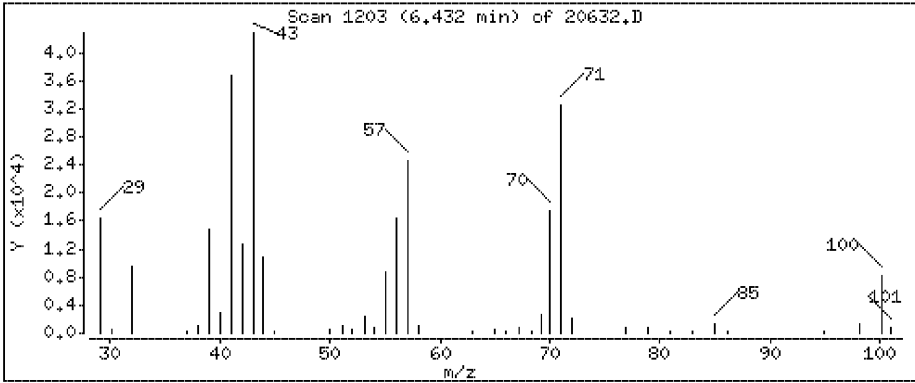
39 2,2,4-Trimethylpentane

Concentration: 2.07 ppbv



40 Heptane

Concentration: 4.83 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20632.D

Date : 26-JUL-2013 04:34

Client ID:

Instrument: 10airD.i

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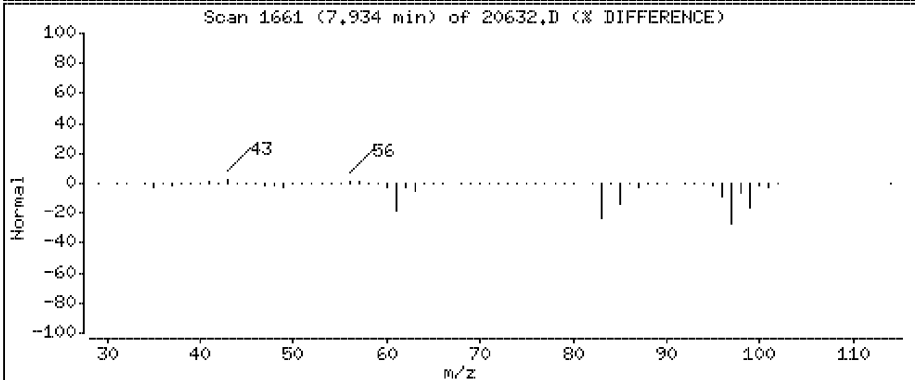
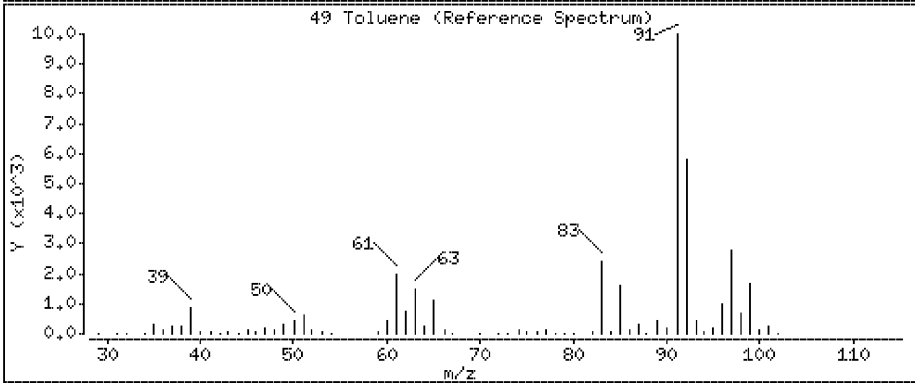
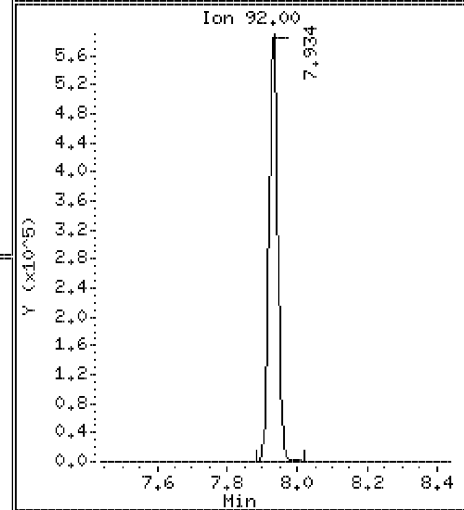
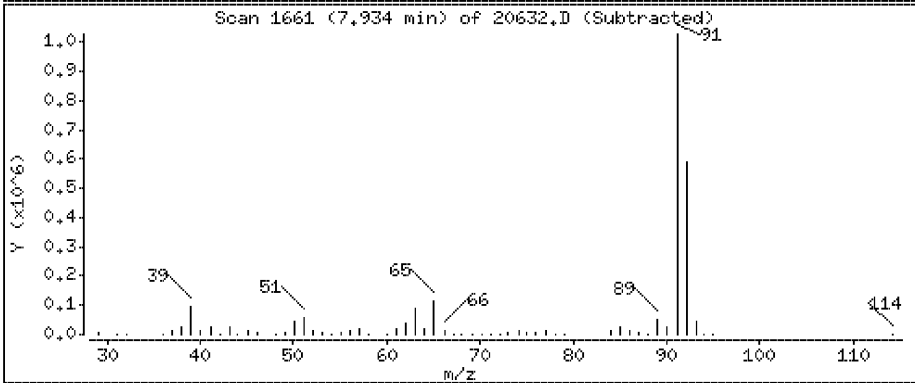
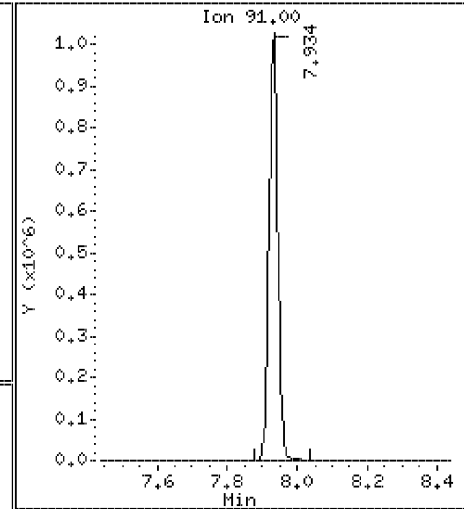
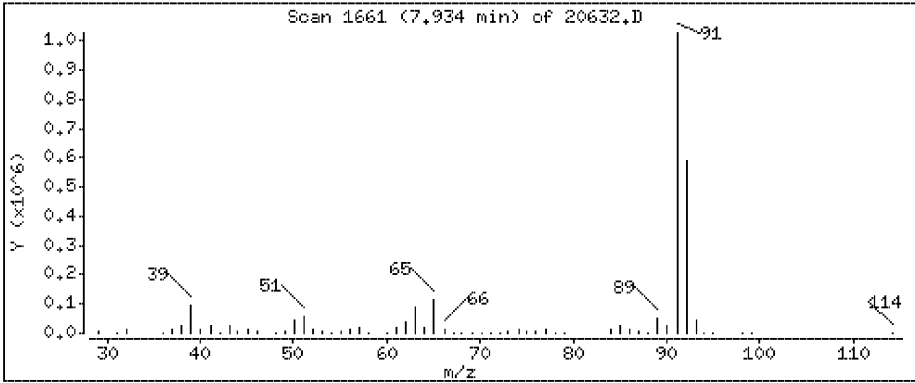
Operator: DR1

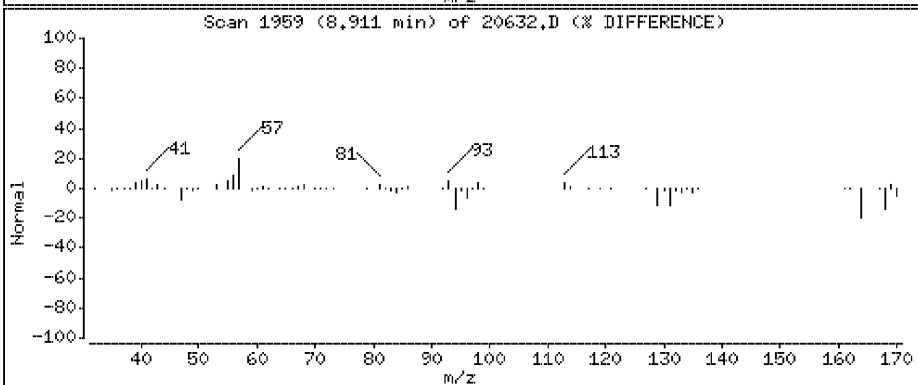
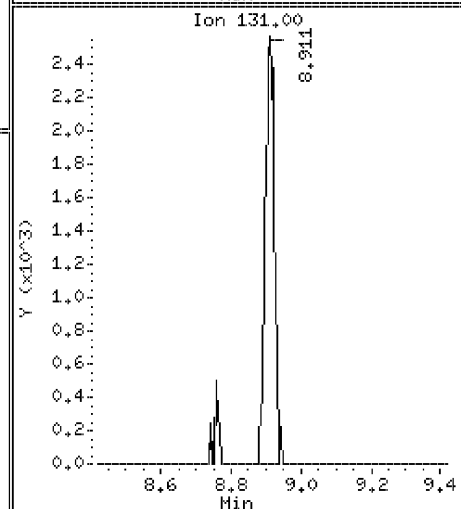
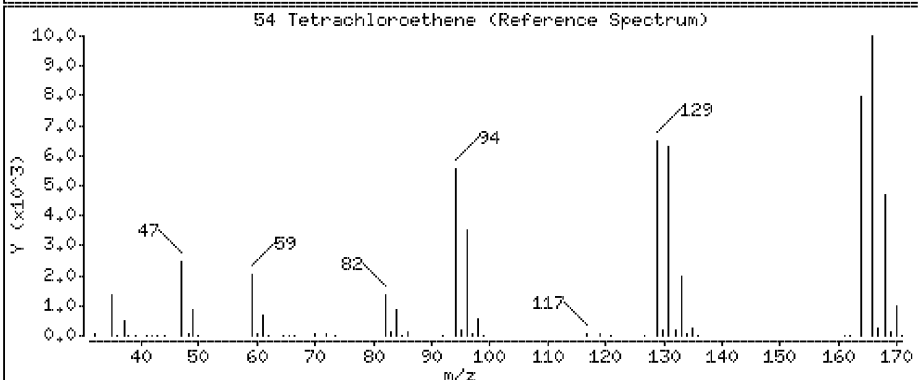
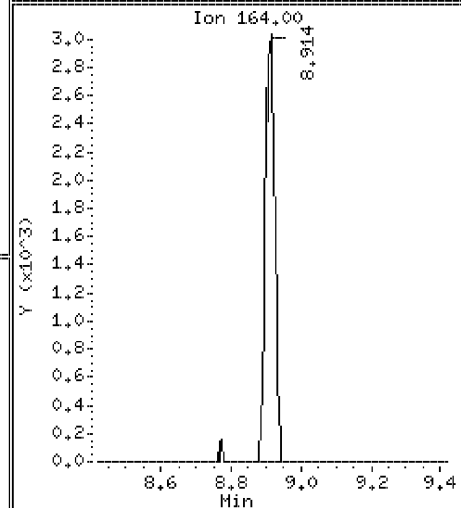
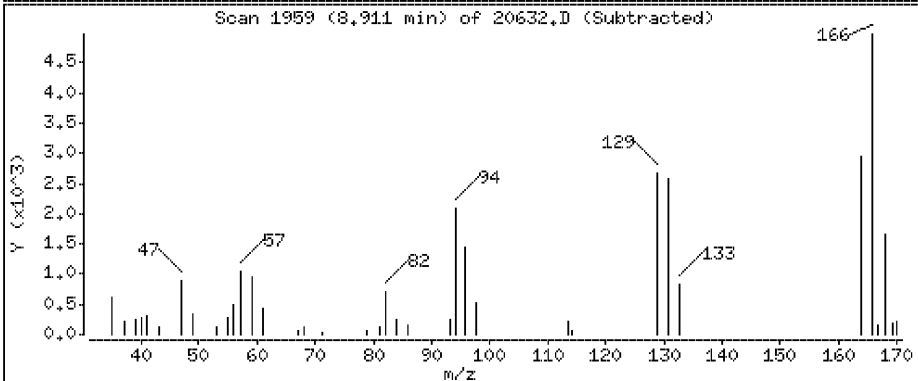
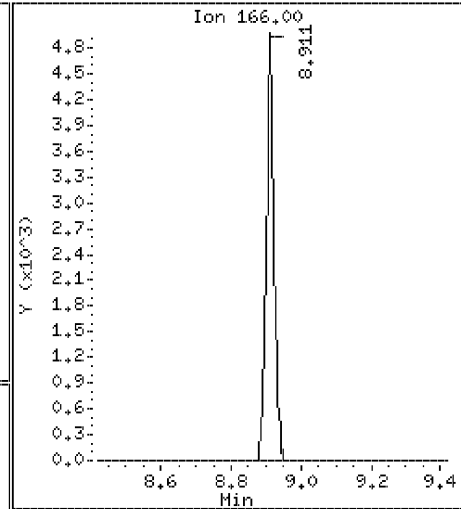
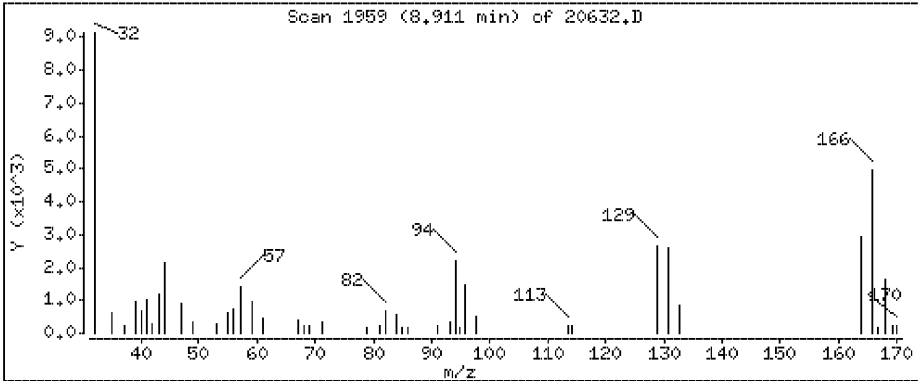
Column phase: J&W DB-5

Column diameter: 0,32

49 Toluene

Concentration: 30,2 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20632.D

Date : 26-JUL-2013 04:34

Client ID:

Instrument: 10airD.i

Sample Info:

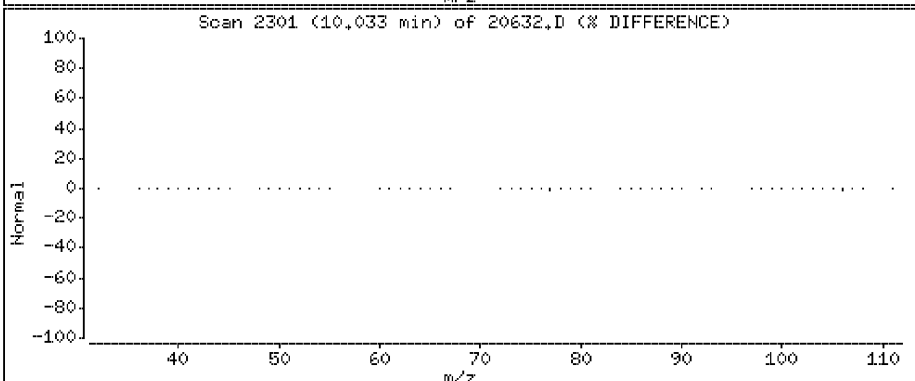
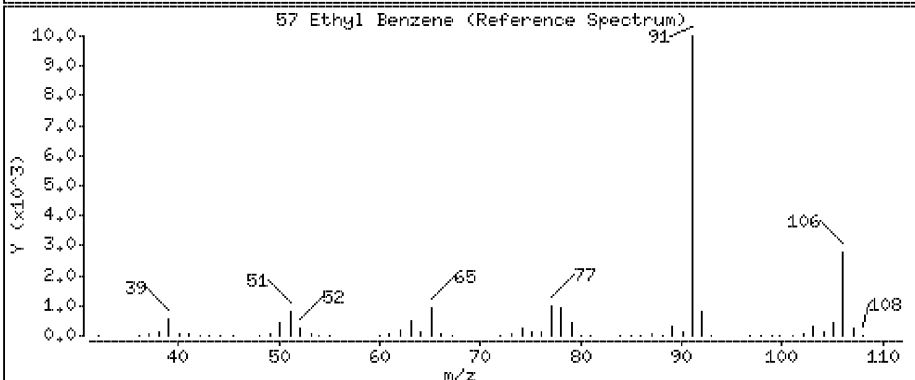
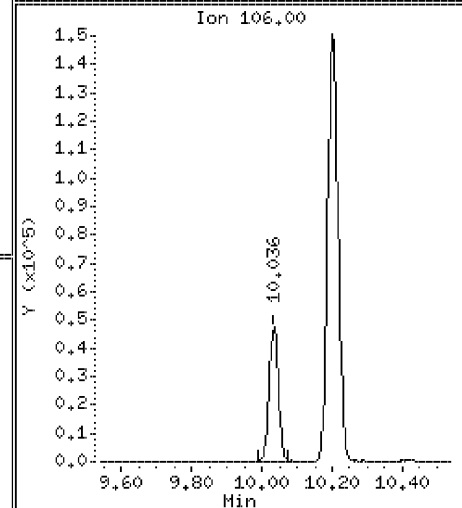
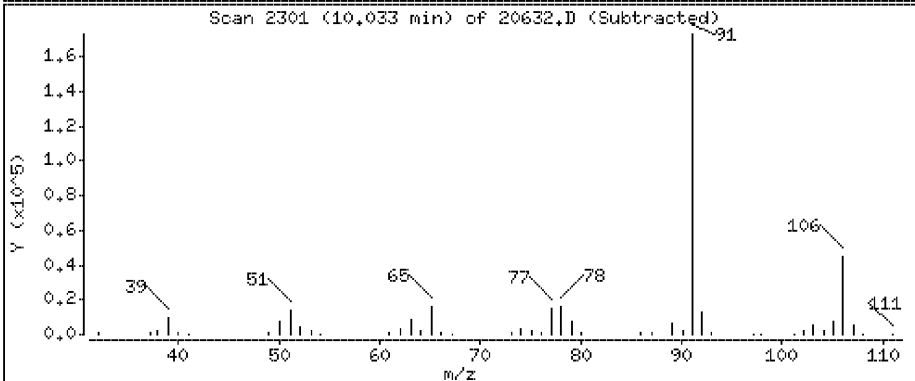
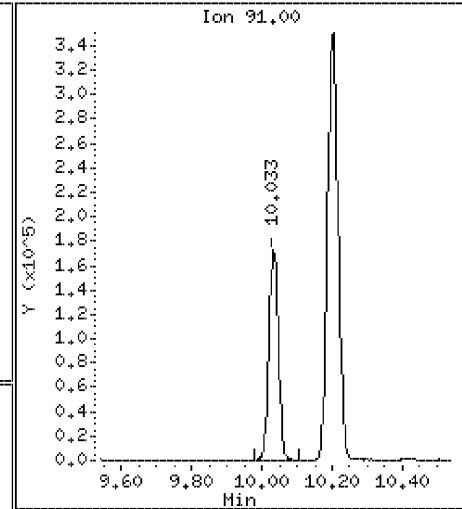
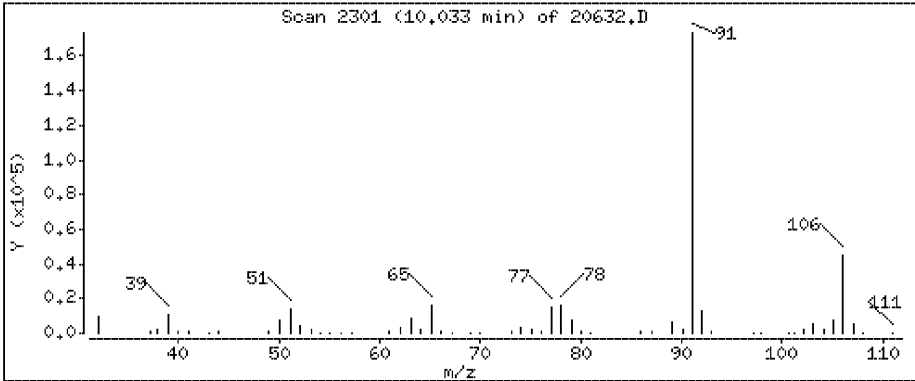
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

57 Ethyl Benzene

Concentration: 4.81 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20632.D

Date : 26-JUL-2013 04:34

Client ID:

Instrument: 10airD.i

Sample Info:

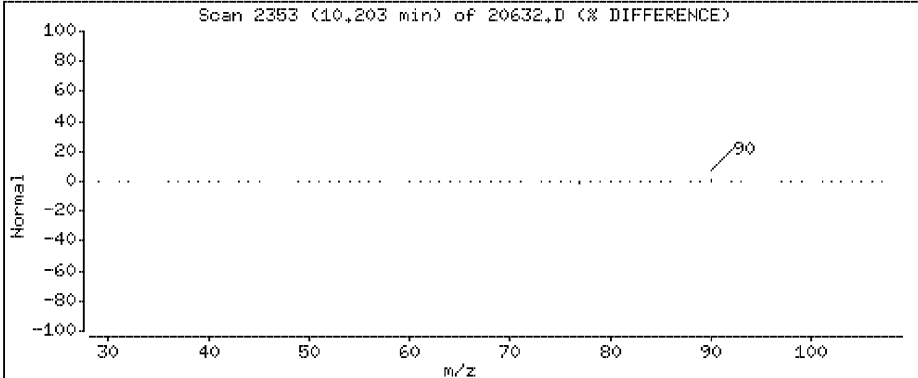
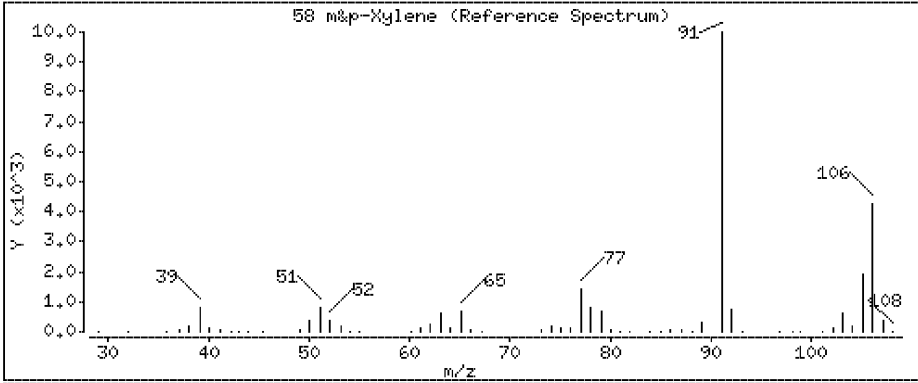
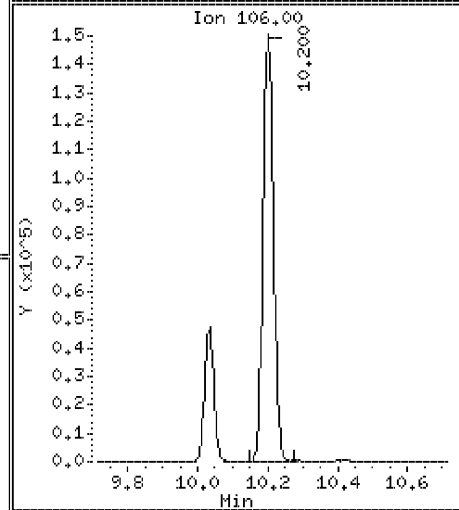
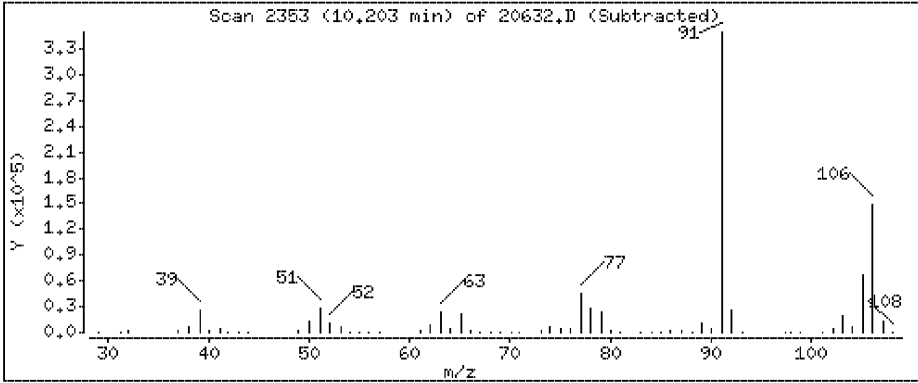
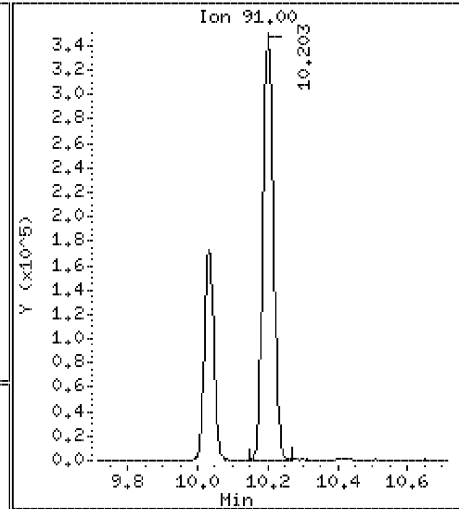
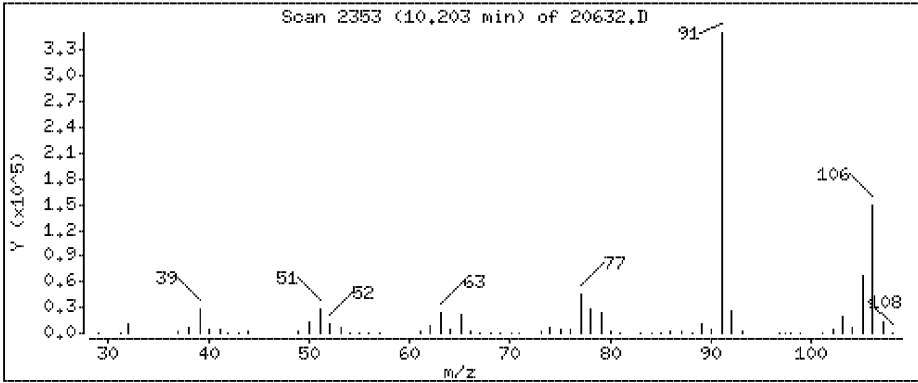
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

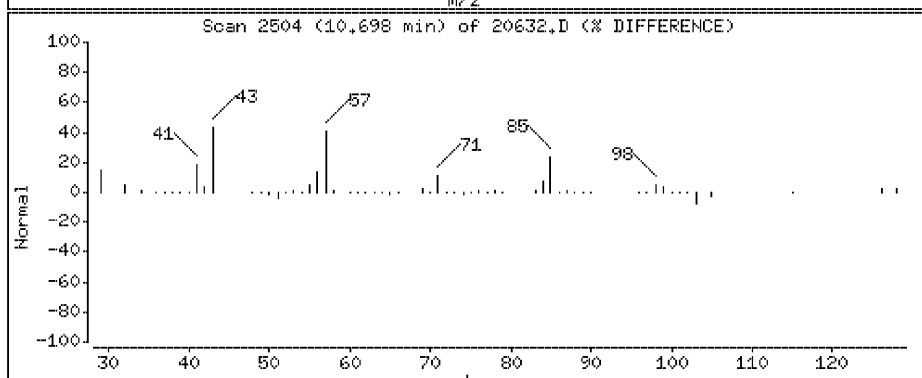
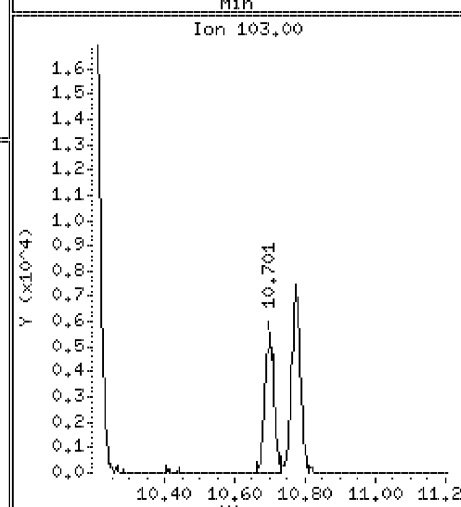
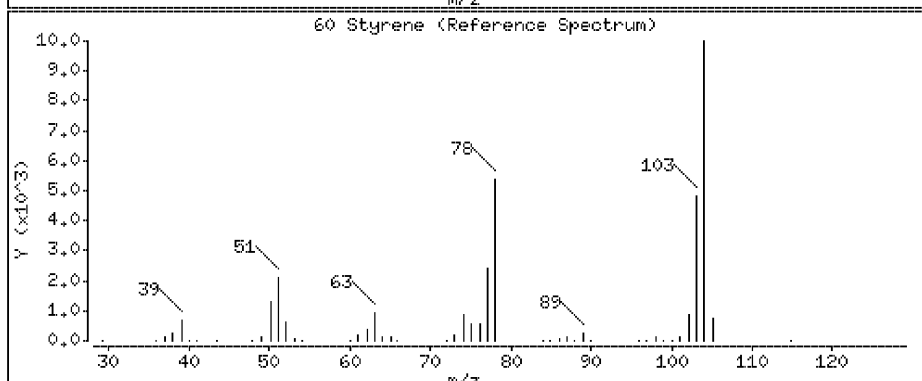
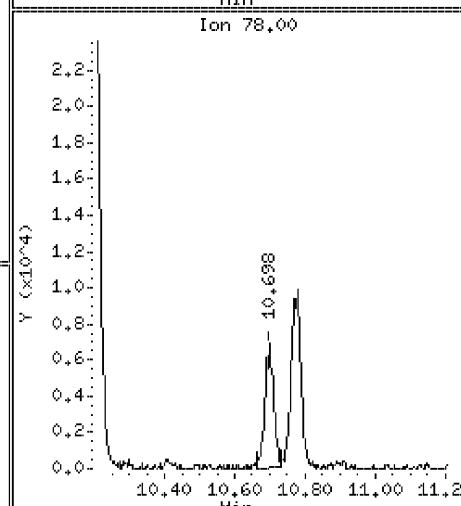
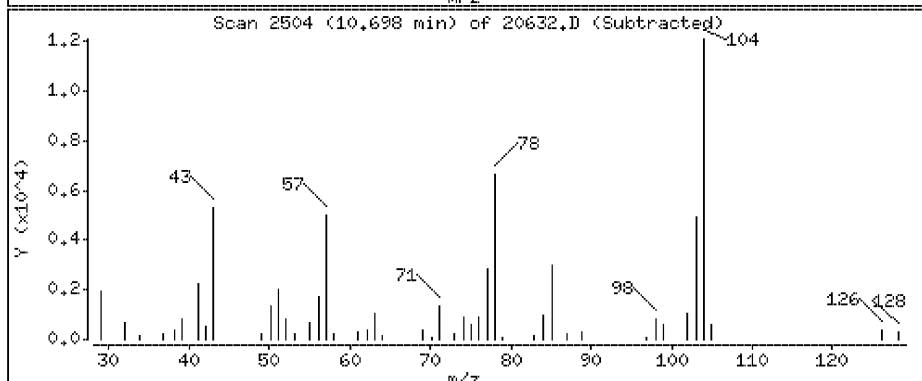
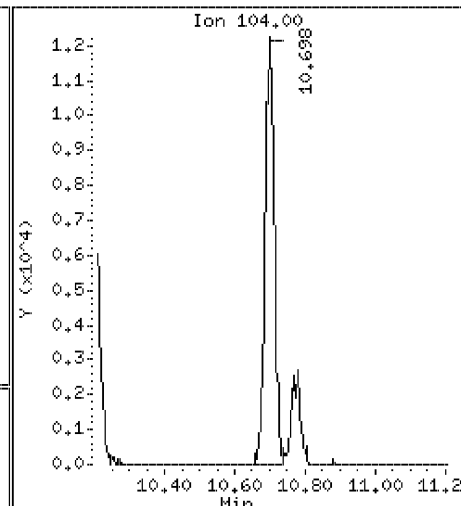
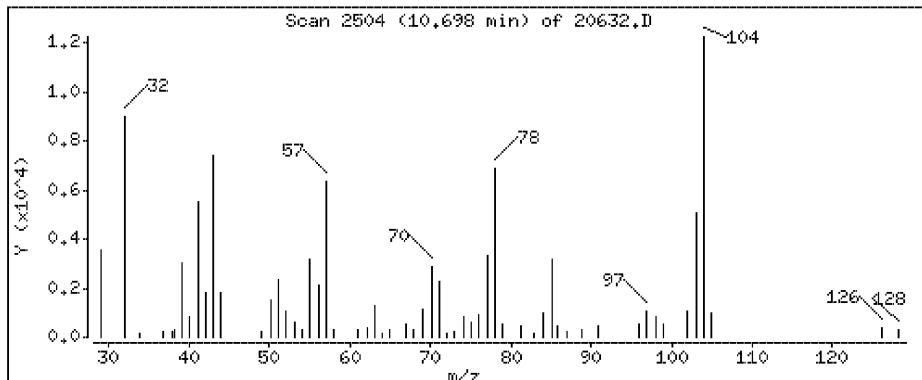
58 m&p-Xylene

Concentration: 12.7 ppbv



60 Styrene

Concentration: 1.26 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20632.D

Date : 26-JUL-2013 04:34

Client ID:

Instrument: 10airD.i

Sample Info:

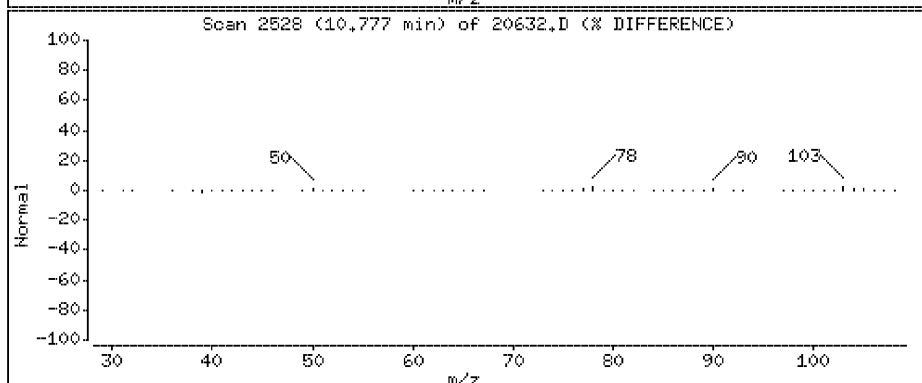
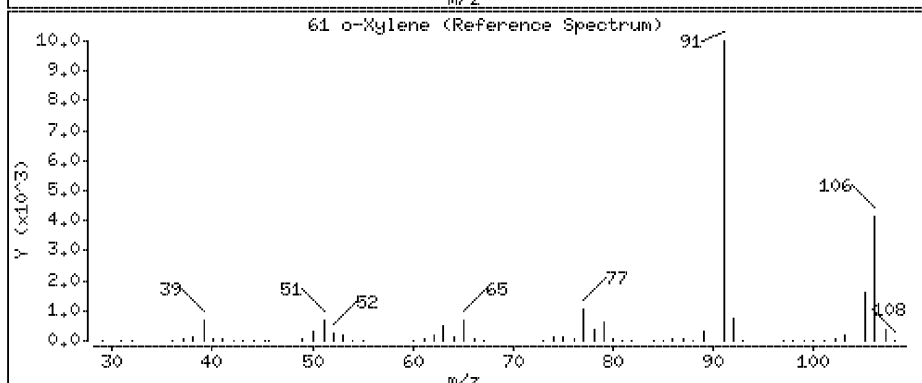
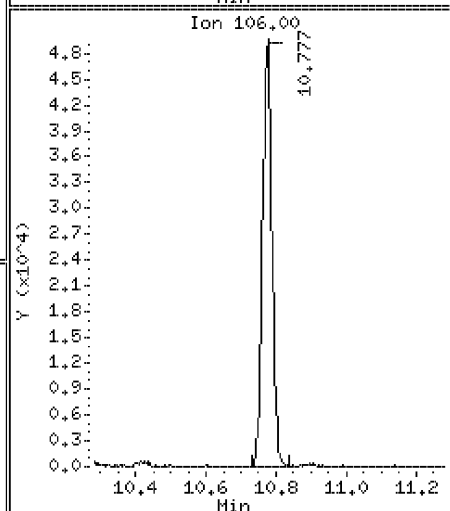
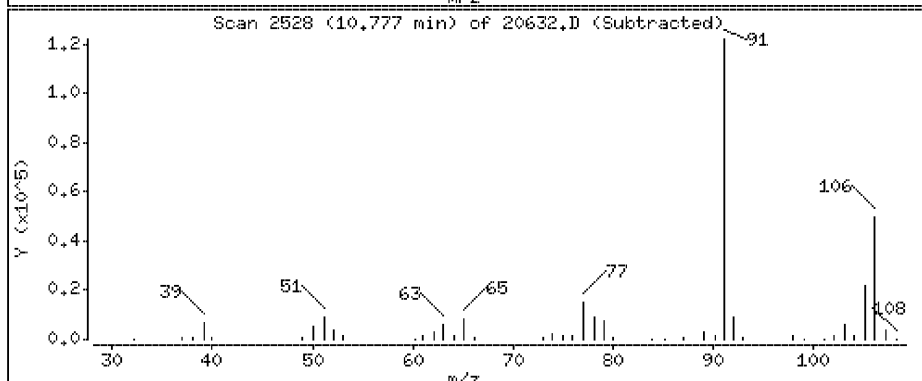
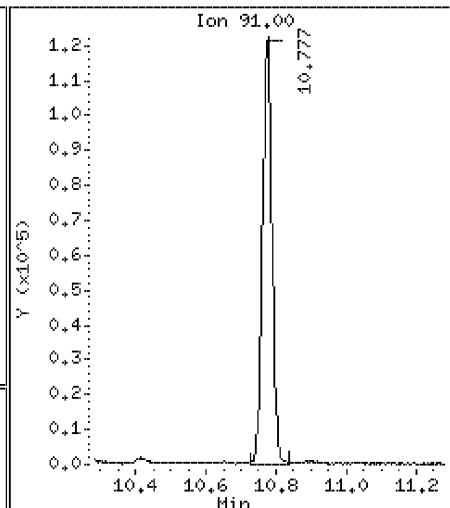
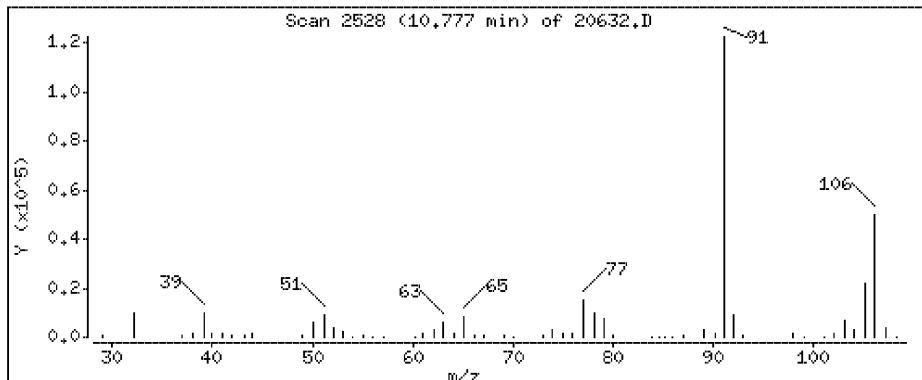
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

61 o-Xylene

Concentration: 4.01 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20632.D

Date : 26-JUL-2013 04:34

Client ID:

Instrument: 10airD.i

Sample Info:

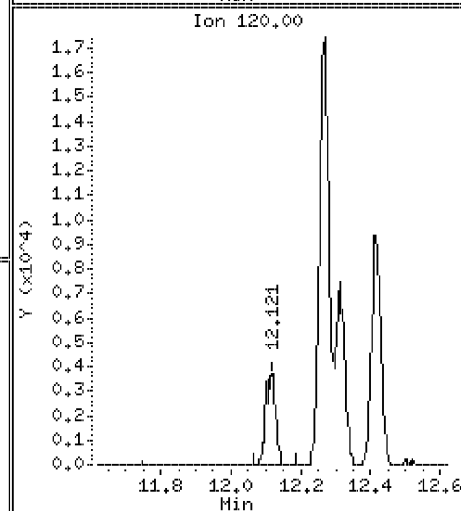
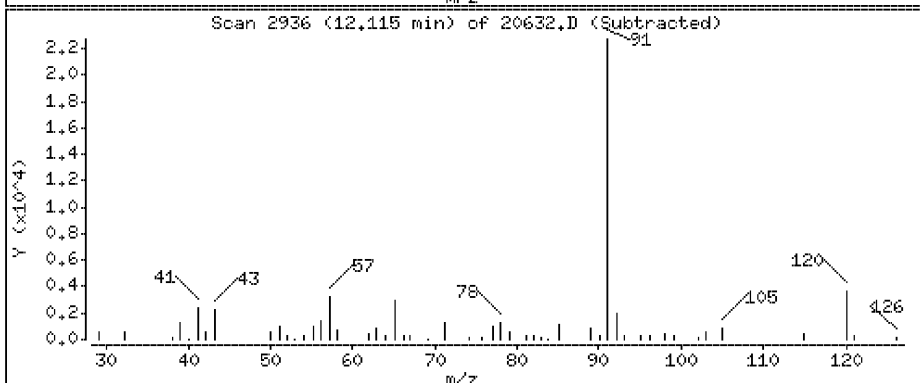
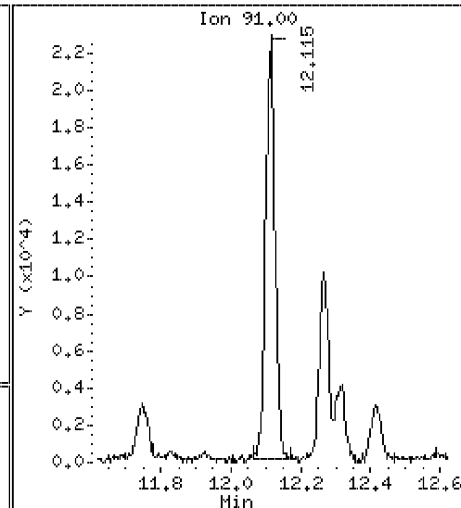
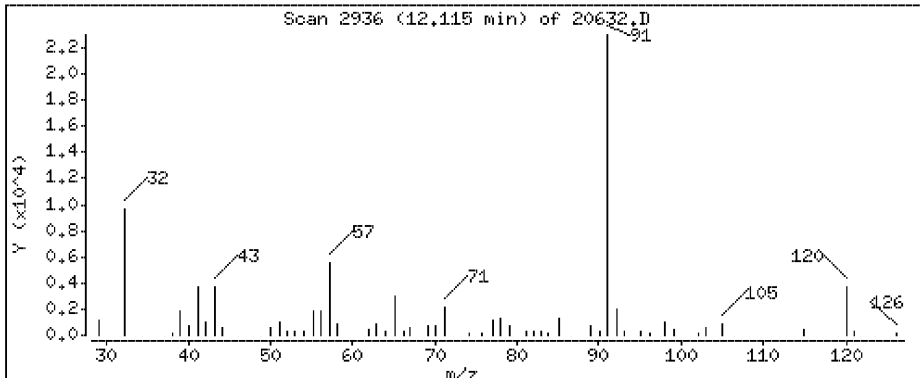
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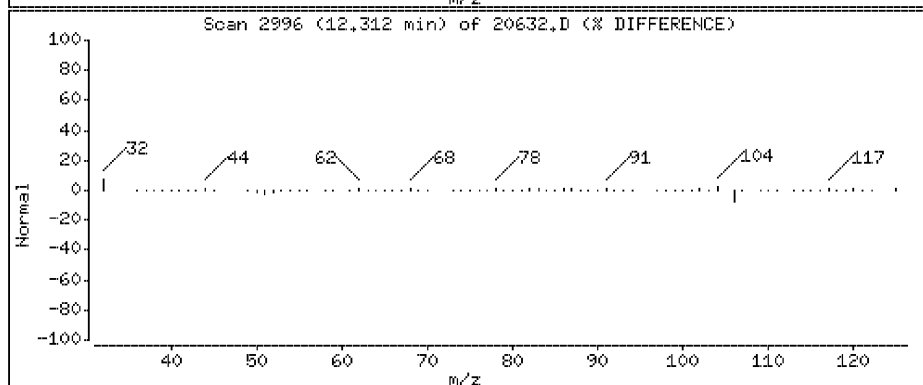
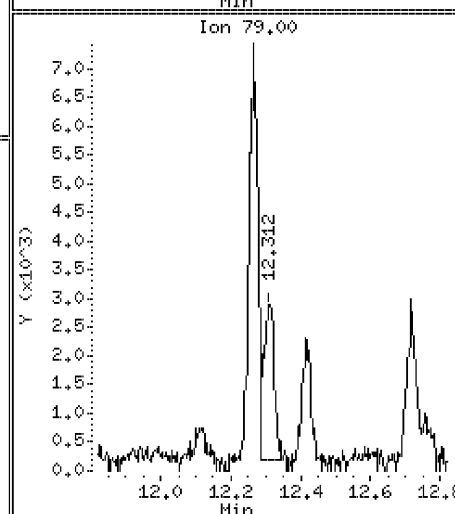
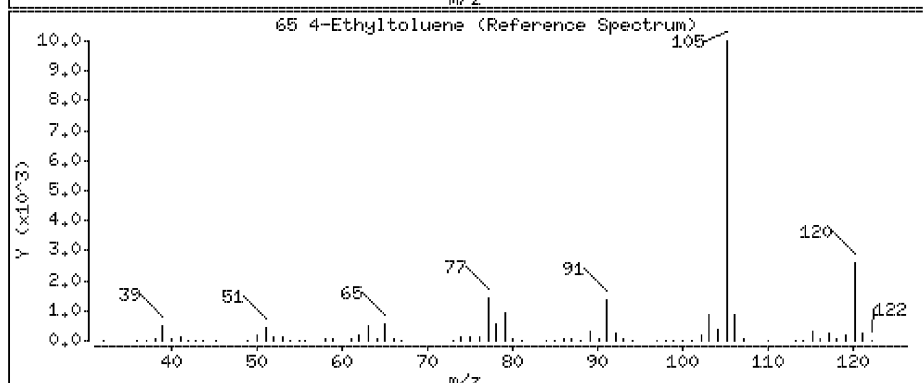
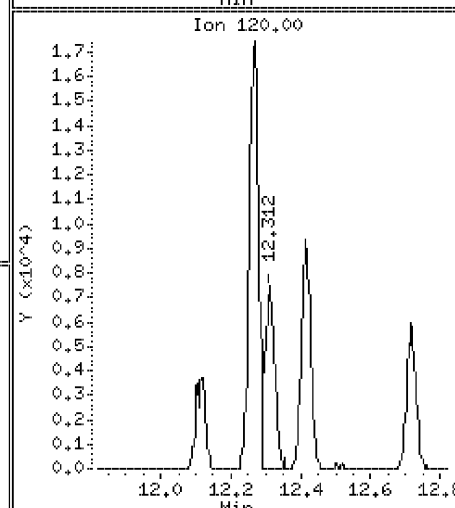
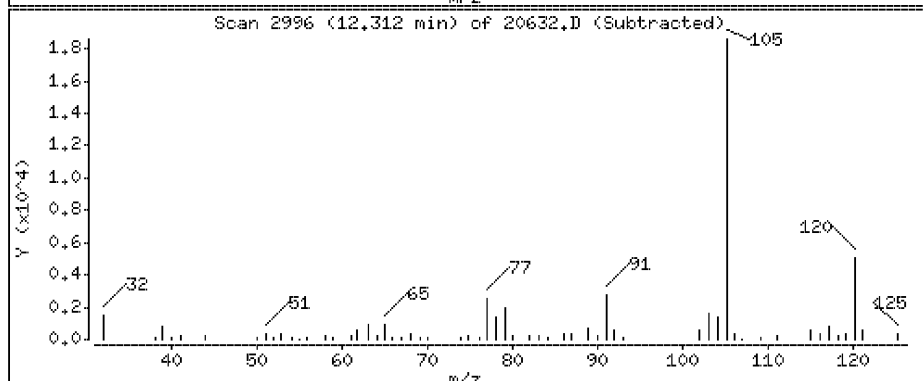
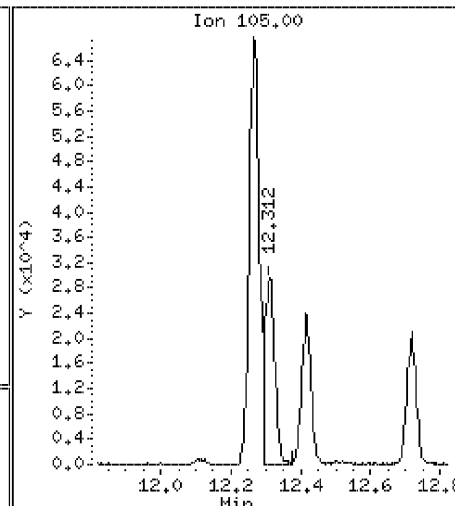
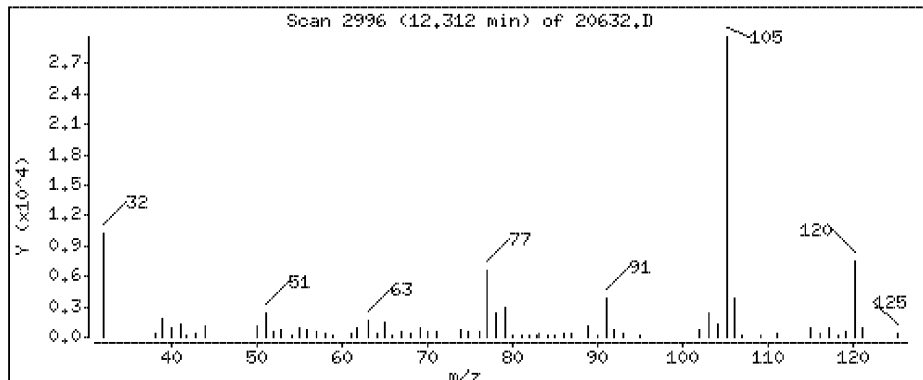
Column phase: J&W DB-5

Column diameter: 0.32

64 N-Propylbenzene

Concentration: 0.892 ppbv





Data File: \\192.168.10.12\chem\10airD,i\072513,b\20632.D

Date : 26-JUL-2013 04:34

Client ID:

Instrument: 10airD,i

Sample Info:

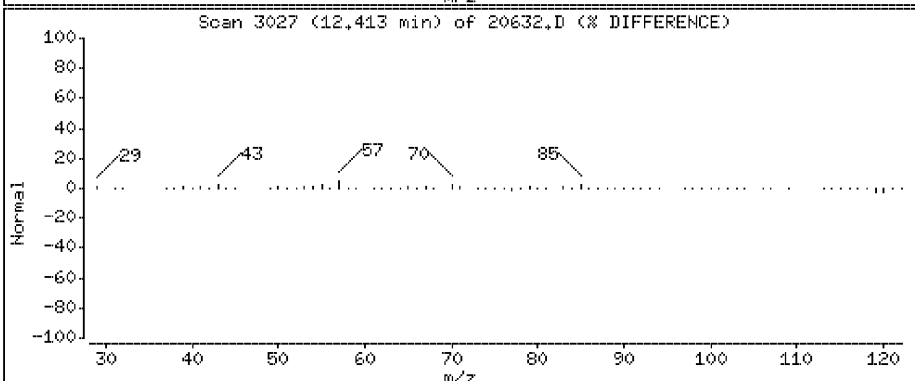
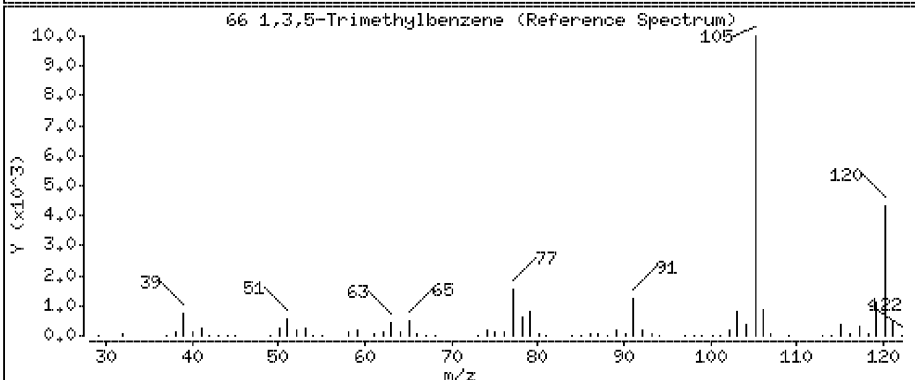
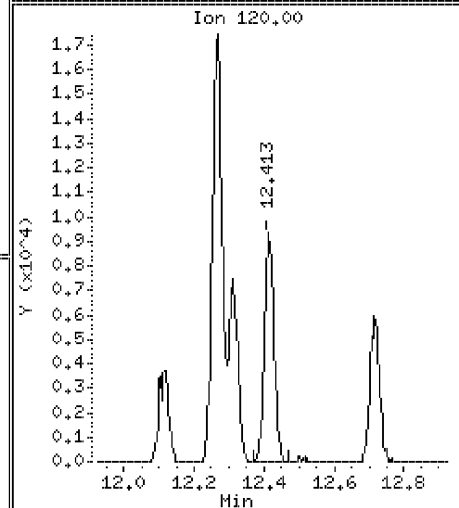
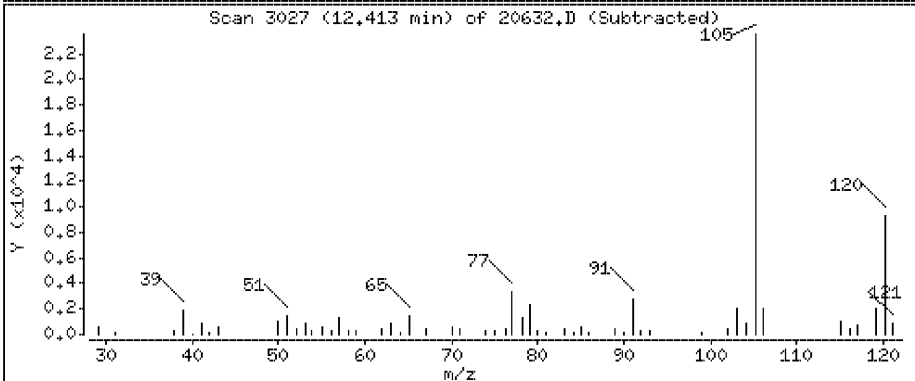
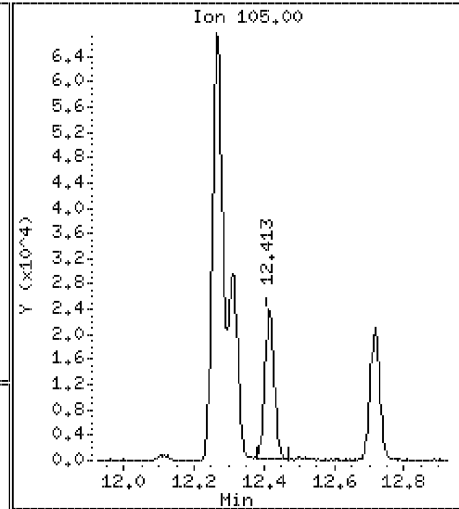
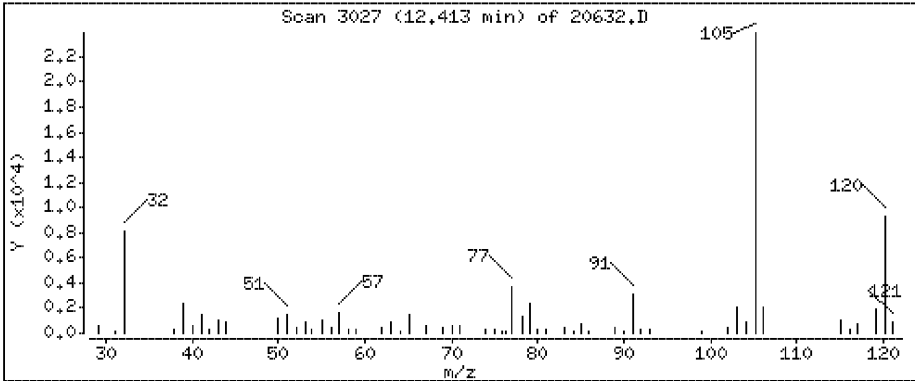
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

66 1,3,5-Trimethylbenzene

Concentration: 1.12 ppbv



Data File: \\192.168.10.12\chem\10airD,i\072513,b\20632.D

Date : 26-JUL-2013 04:34

Client ID:

Instrument: 10airD.i

Sample Info:

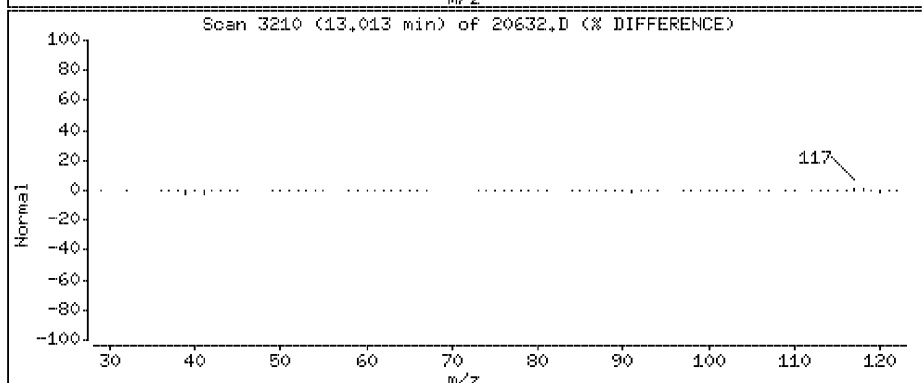
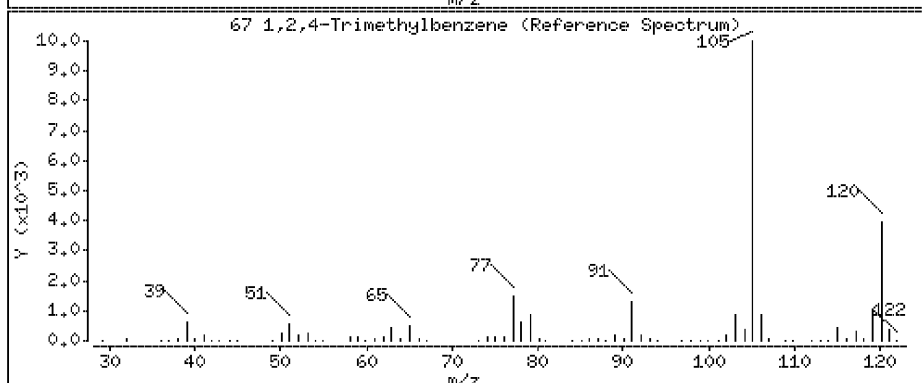
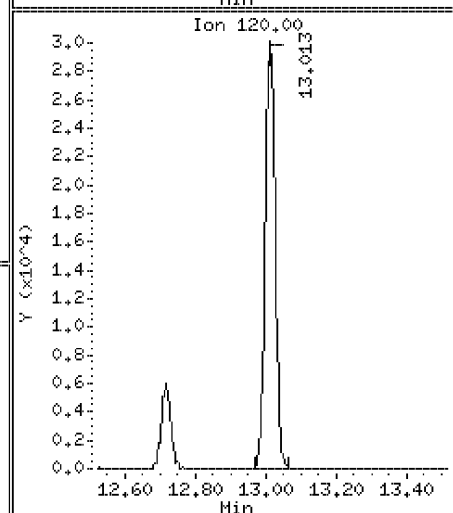
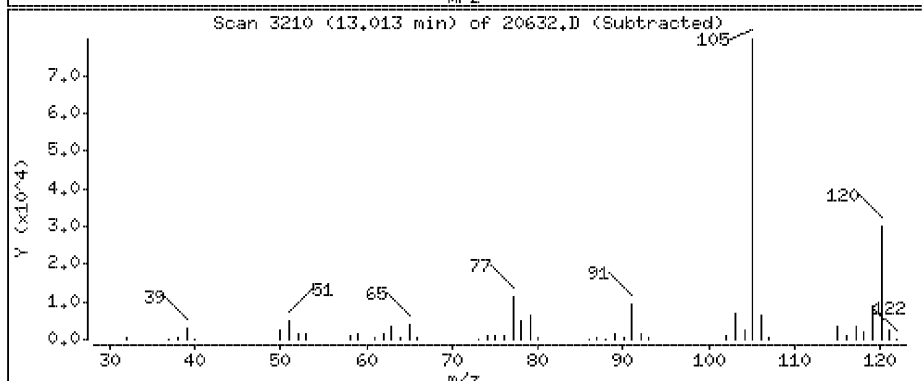
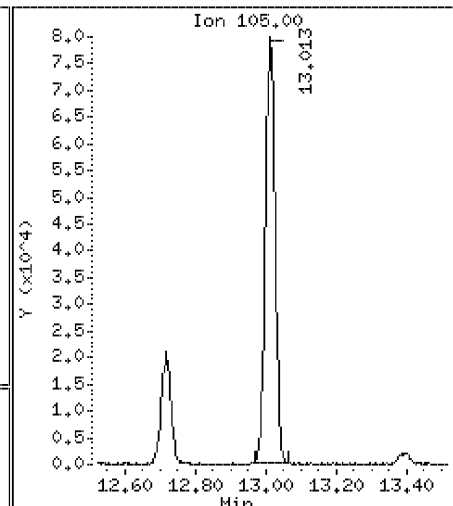
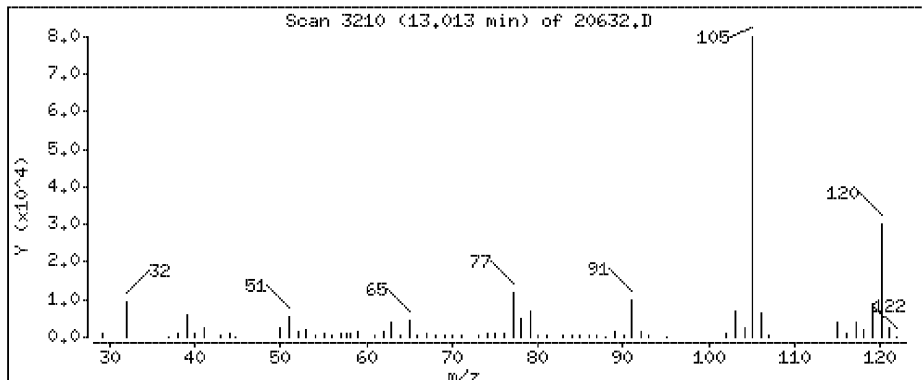
Operator: DR1

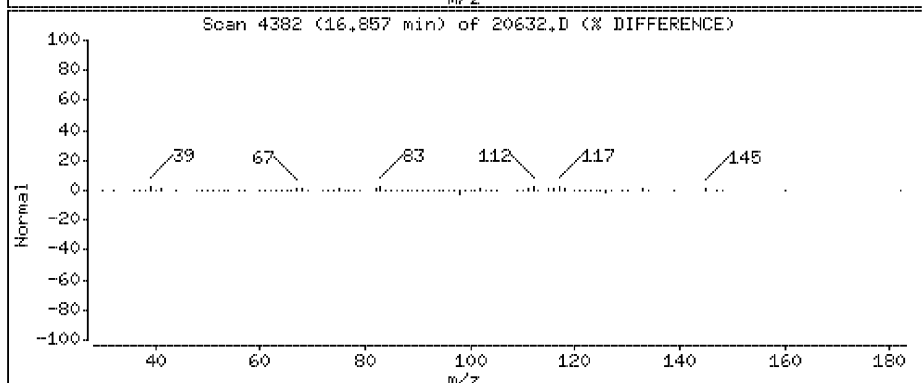
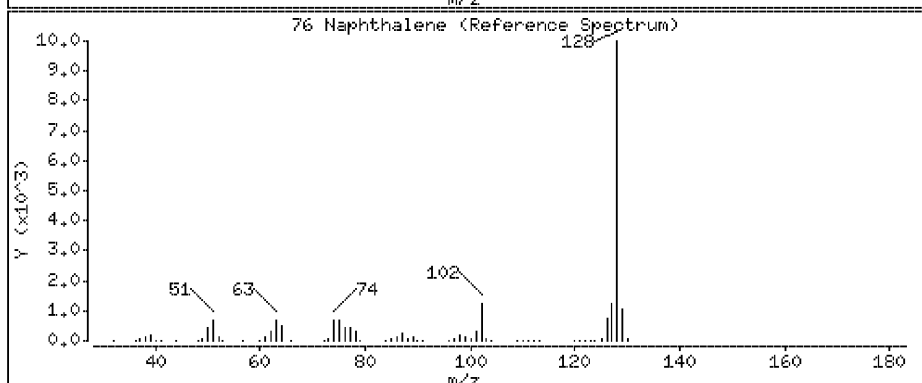
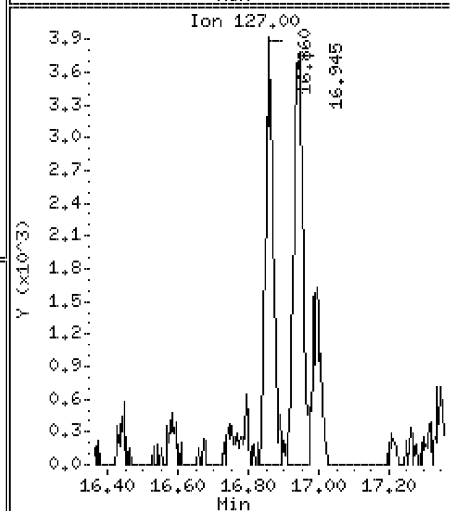
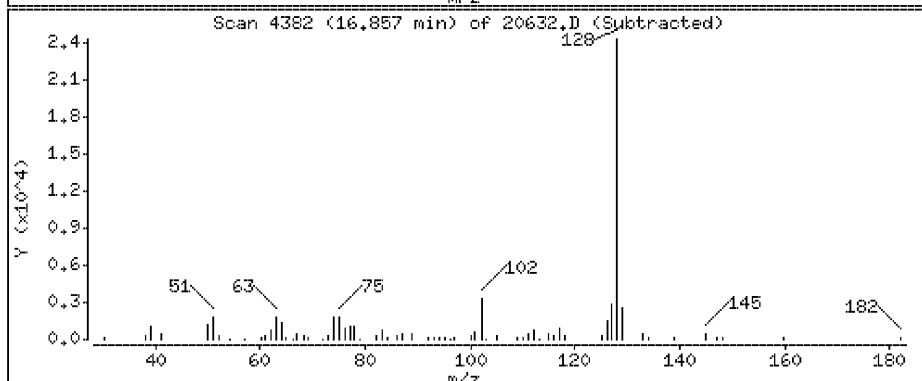
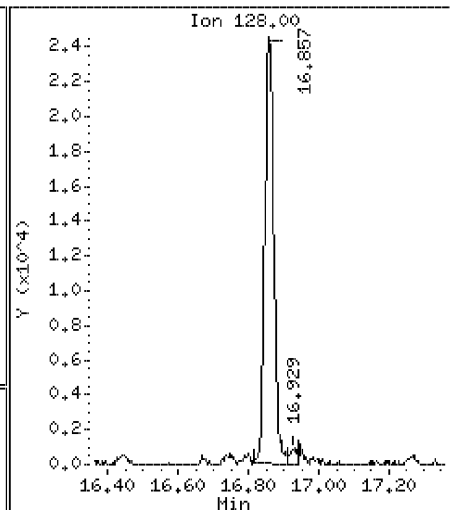
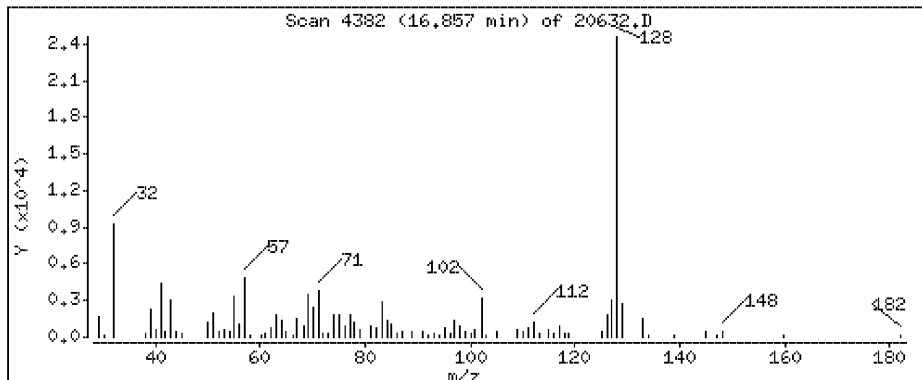
Column phase: J&W DB-5

Column diameter: 0.32

67 1,2,4-Trimethylbenzene

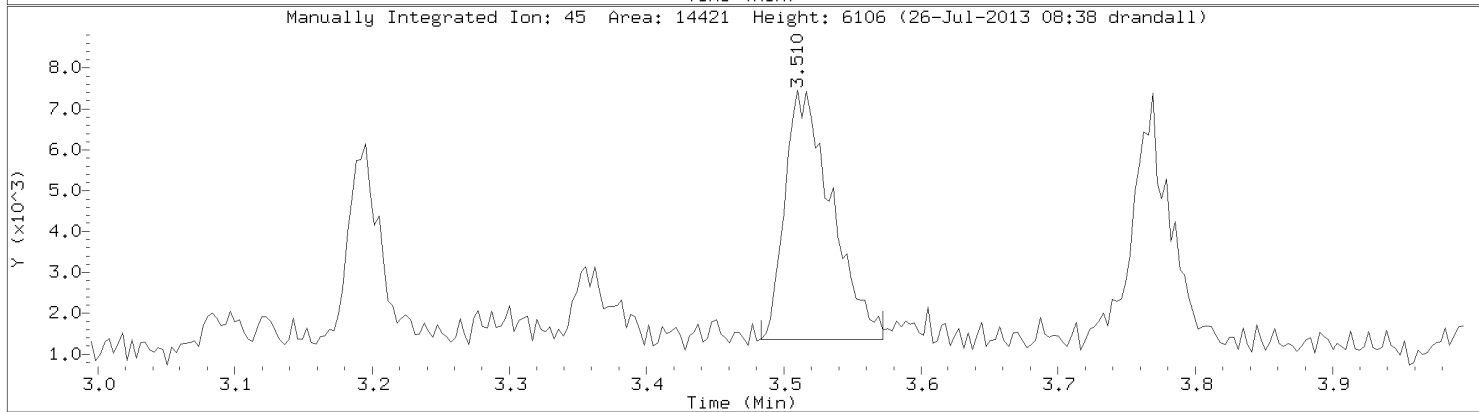
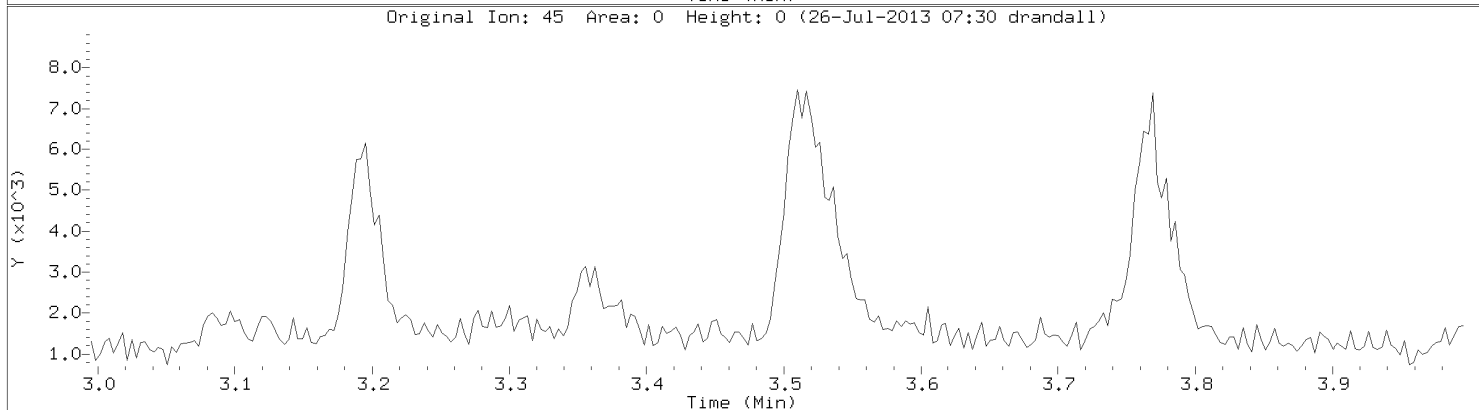
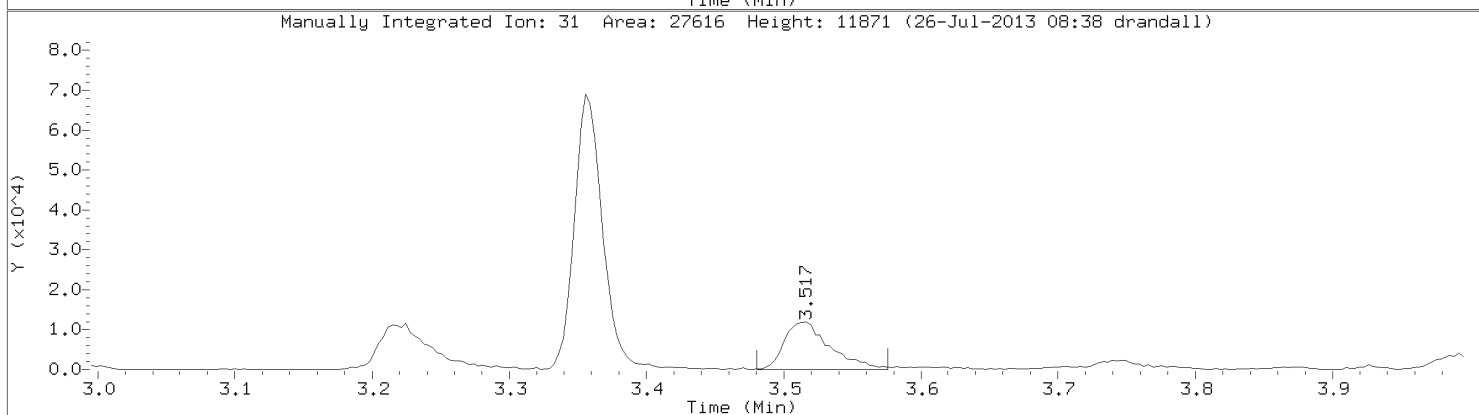
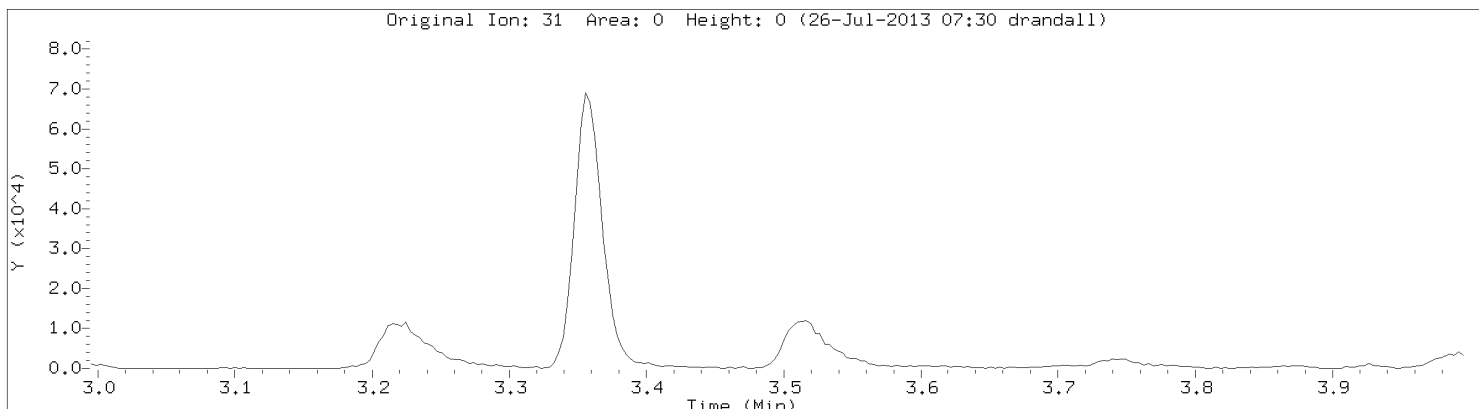
Concentration: 3.05 ppbv





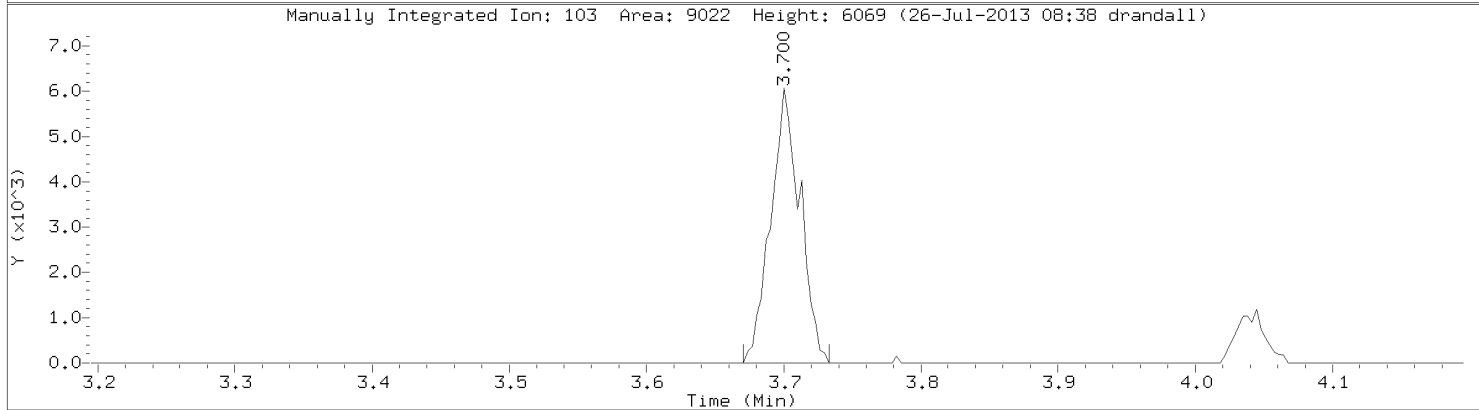
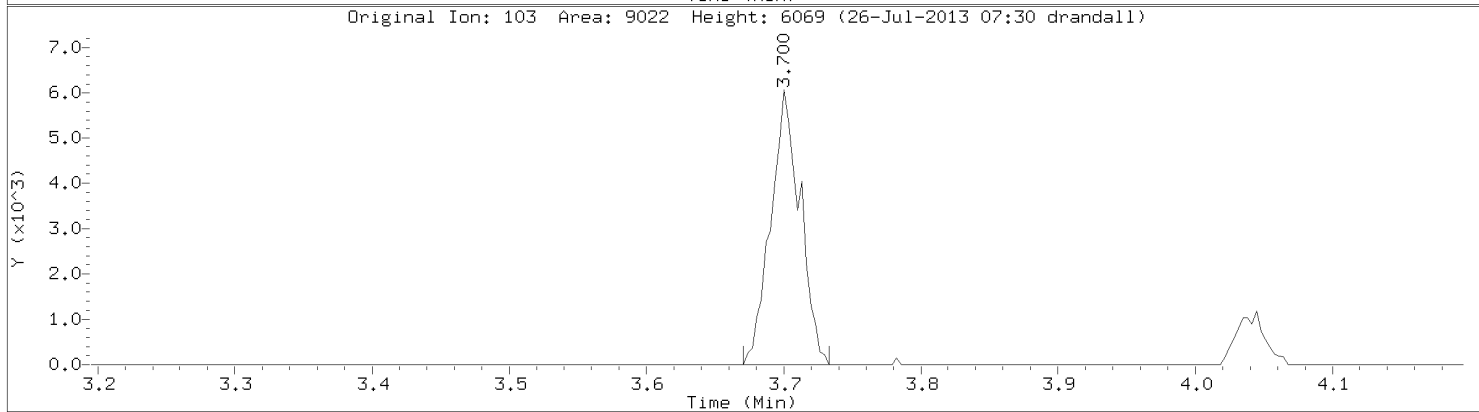
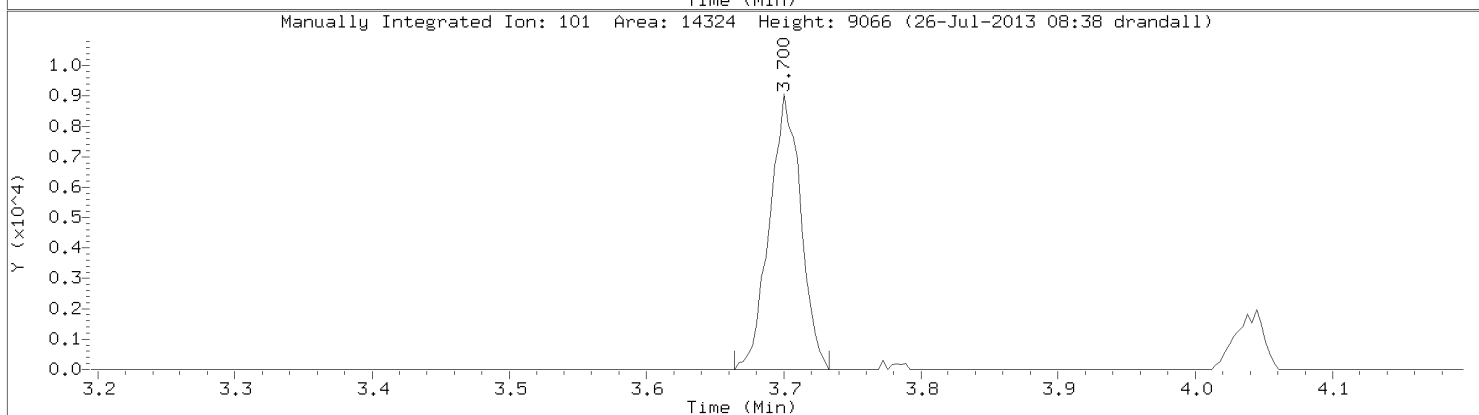
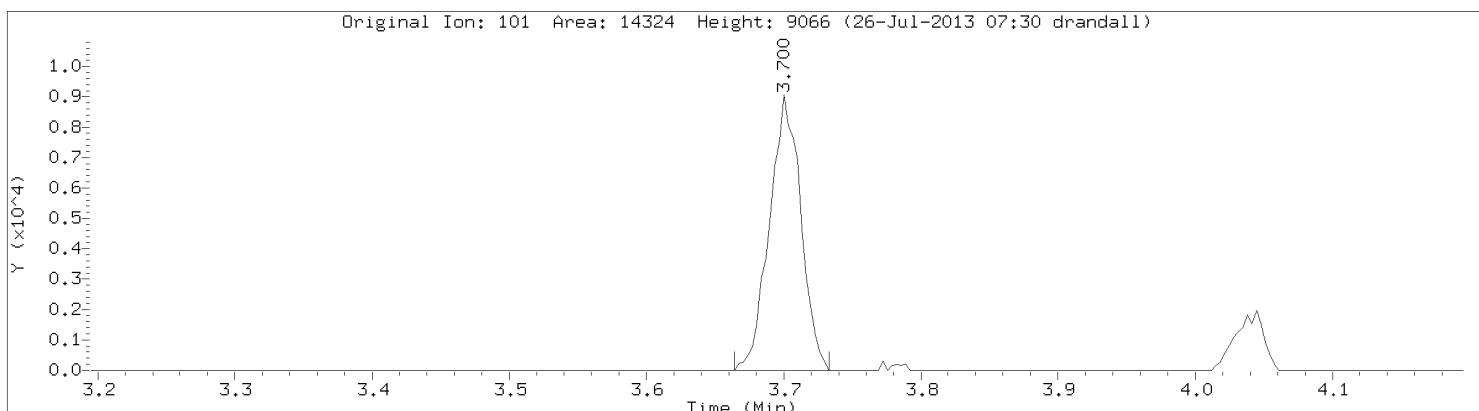
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Injection Date: 26-JUL-2013 04:34
Instrument: 10airD.i
Lab Sample ID: 10236207004

Compound: Ethanol
CAS Number: 64-17-5

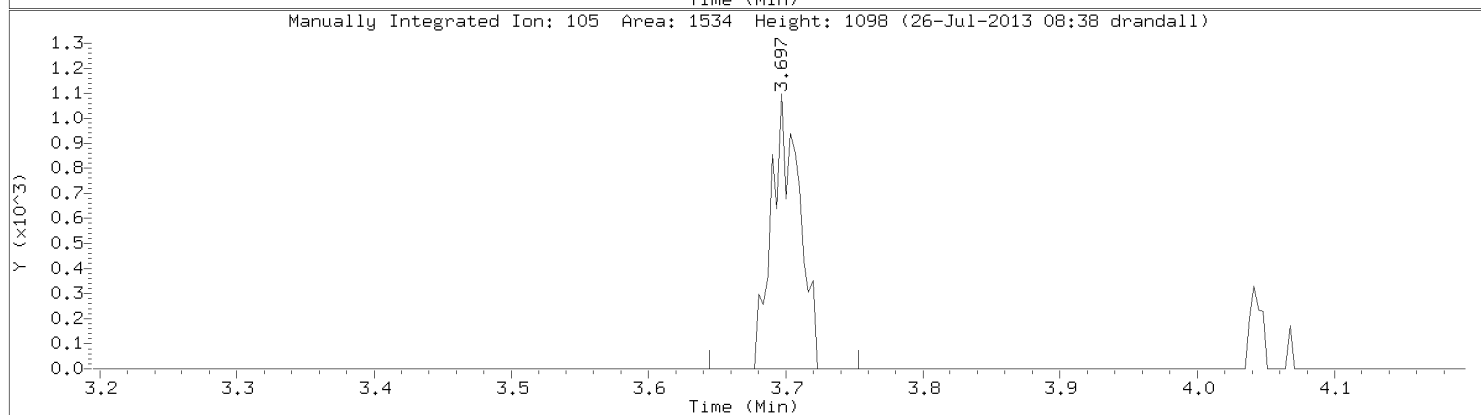
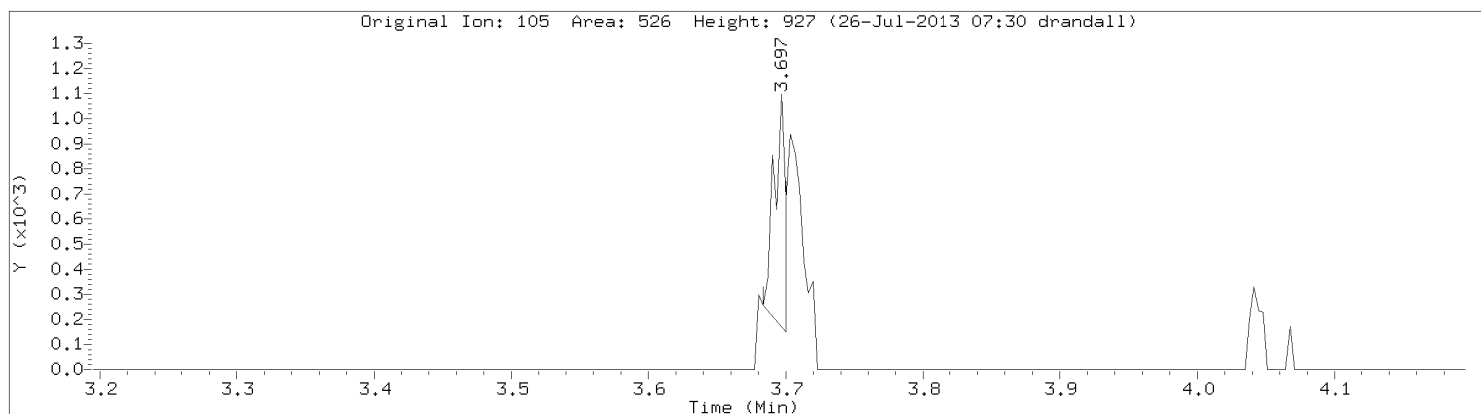


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Injection Date: 26-JUL-2013 04:34
Instrument: 10airD.i
Lab Sample ID: 10236207004

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

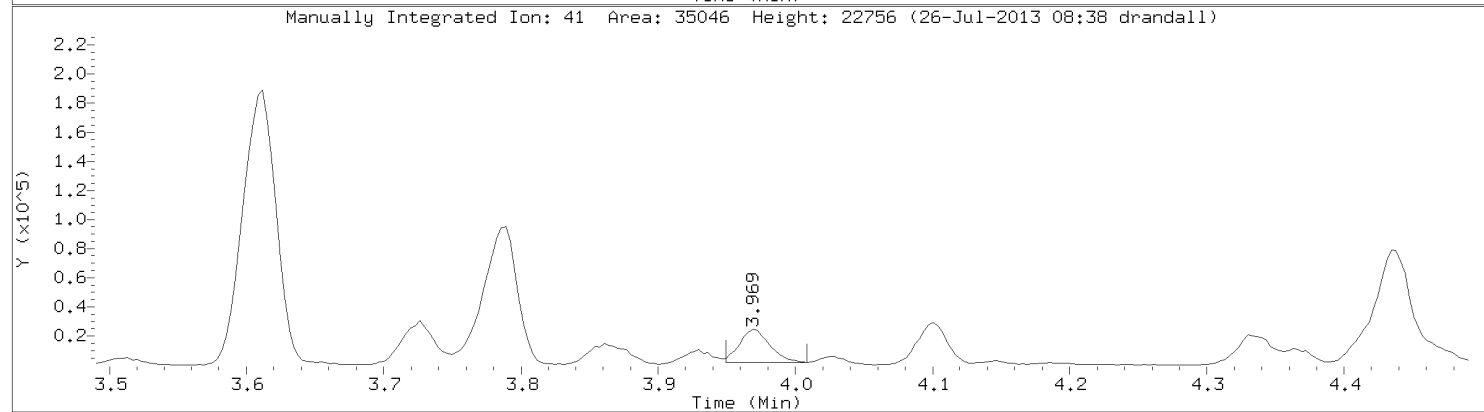
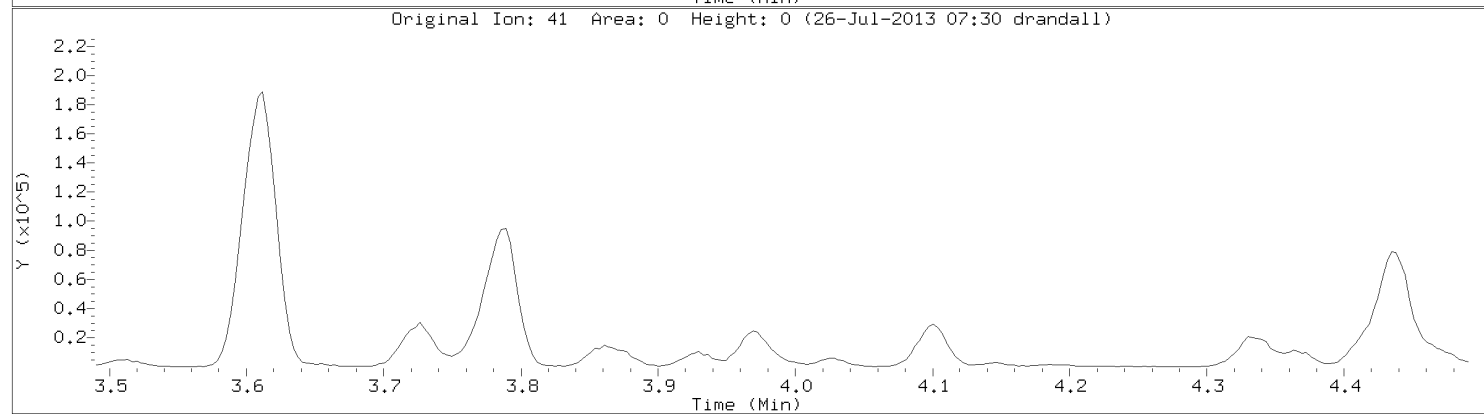
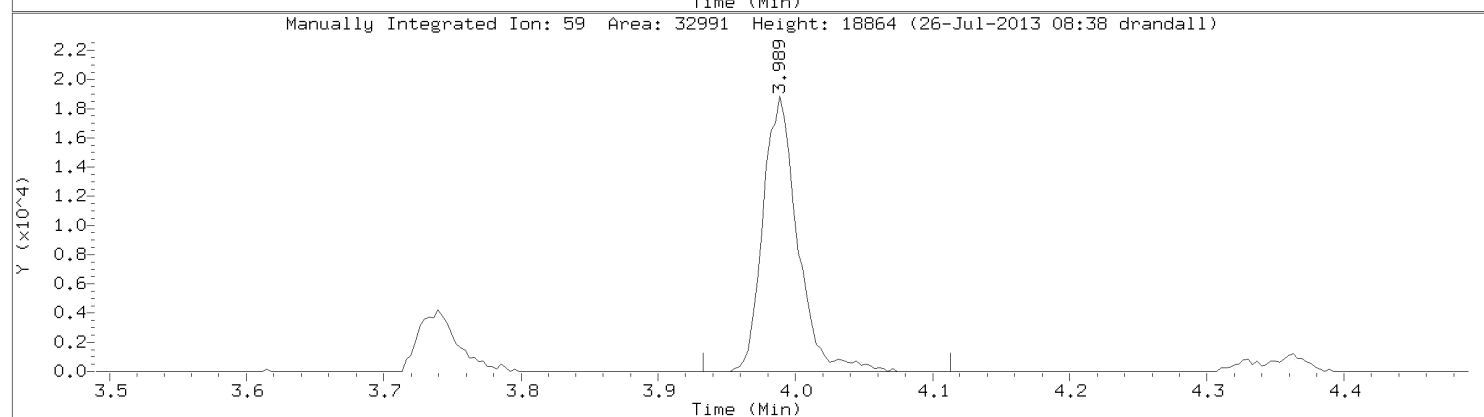
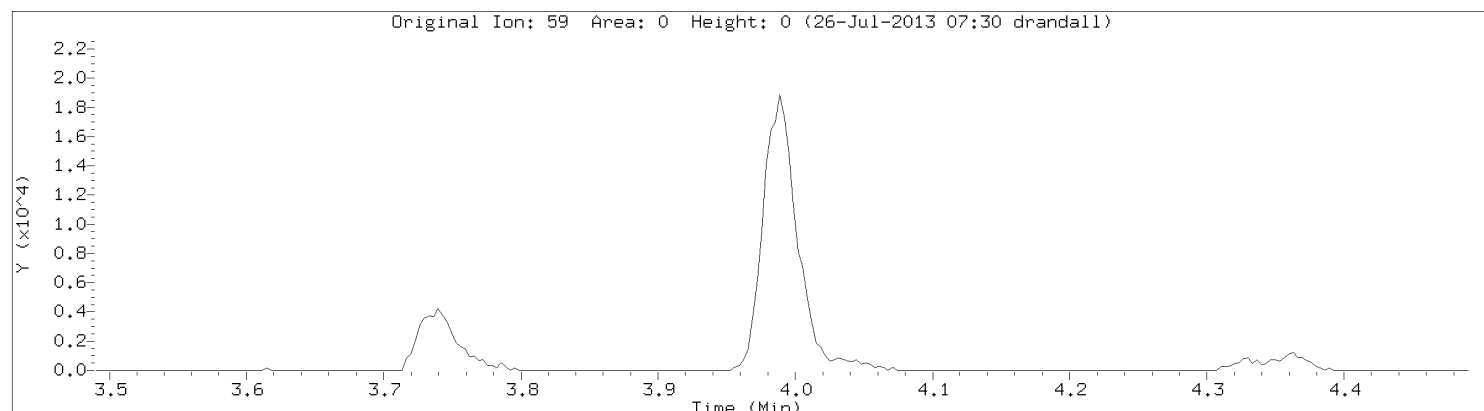


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Injection Date: 26-JUL-2013 04:34
Instrument: 10airD.i
Lab Sample ID: 10236207004



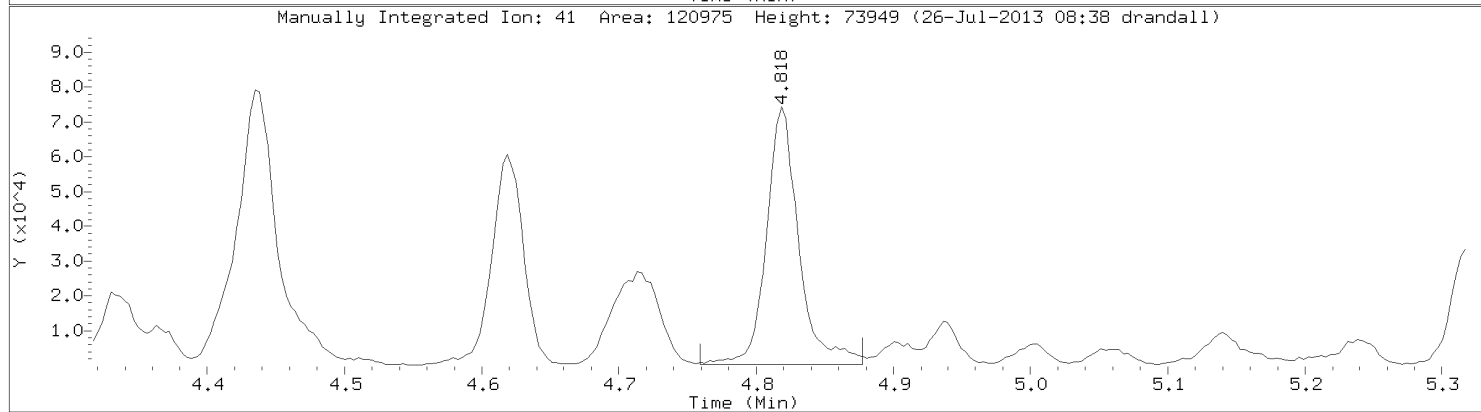
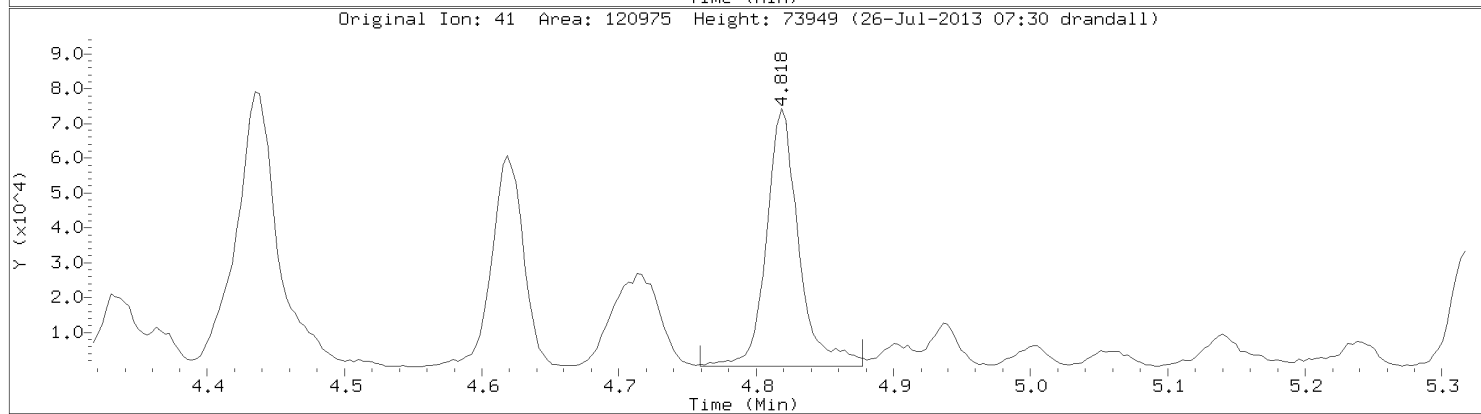
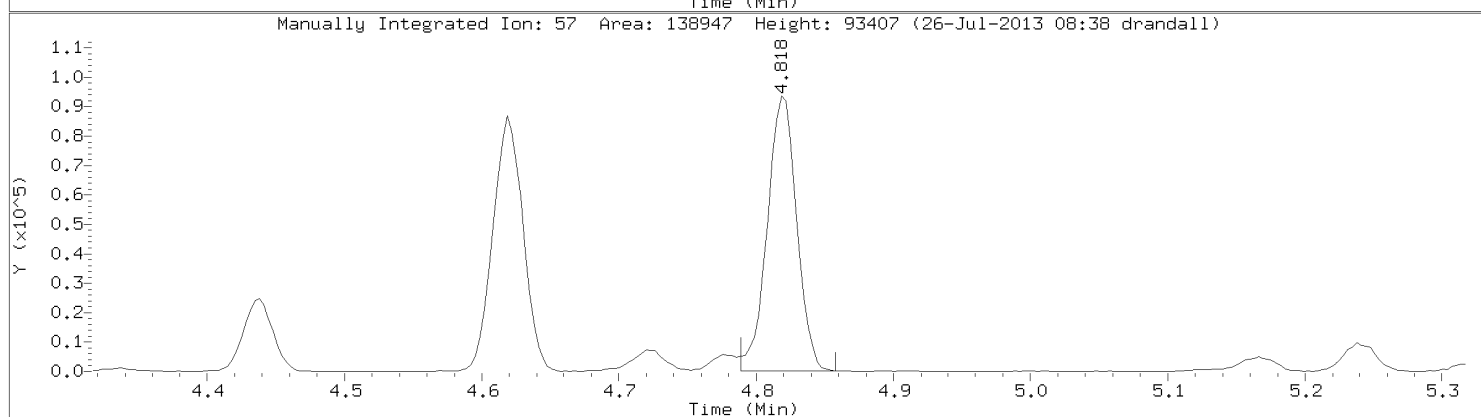
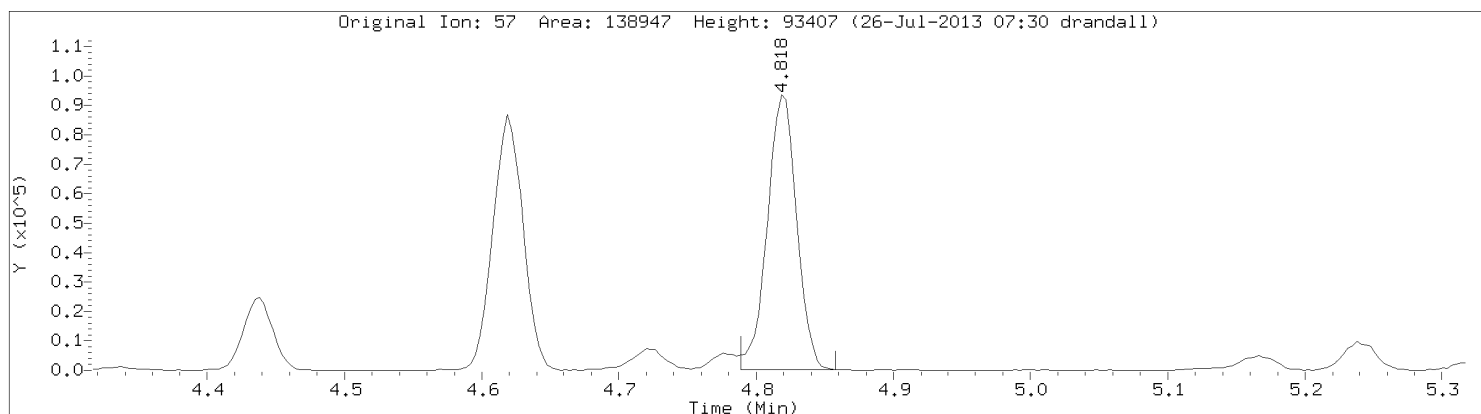
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Injection Date: 26-JUL-2013 04:34
Instrument: 10airD.i
Lab Sample ID: 10236207004

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

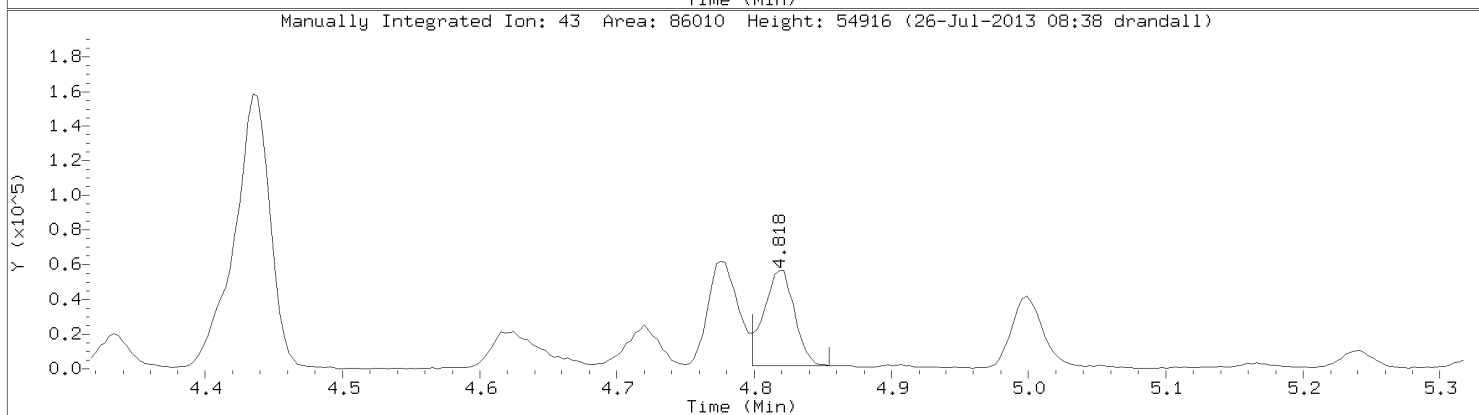
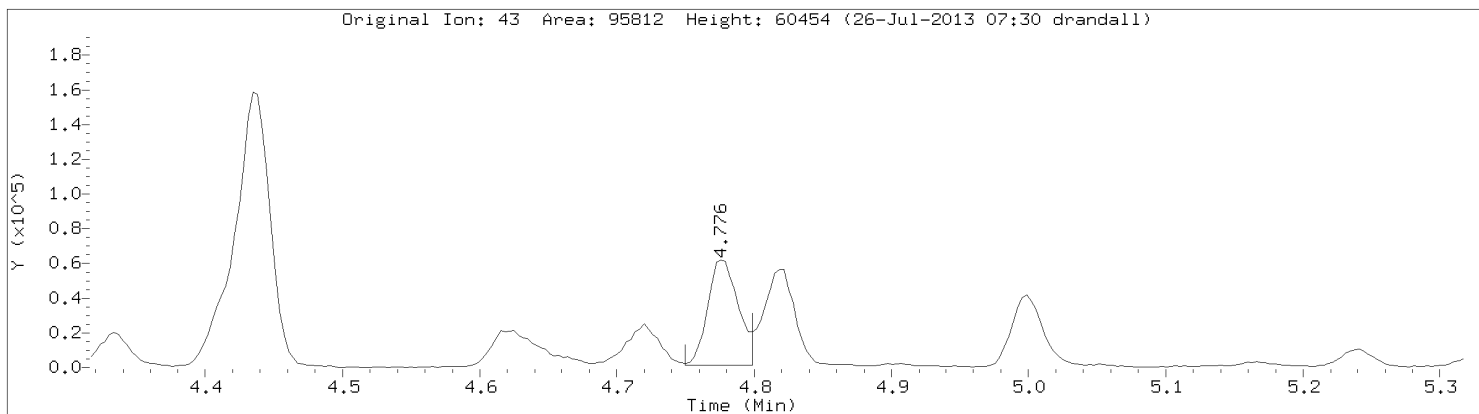


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Injection Date: 26-JUL-2013 04:34
Instrument: 10airD.i
Lab Sample ID: 10236207004

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

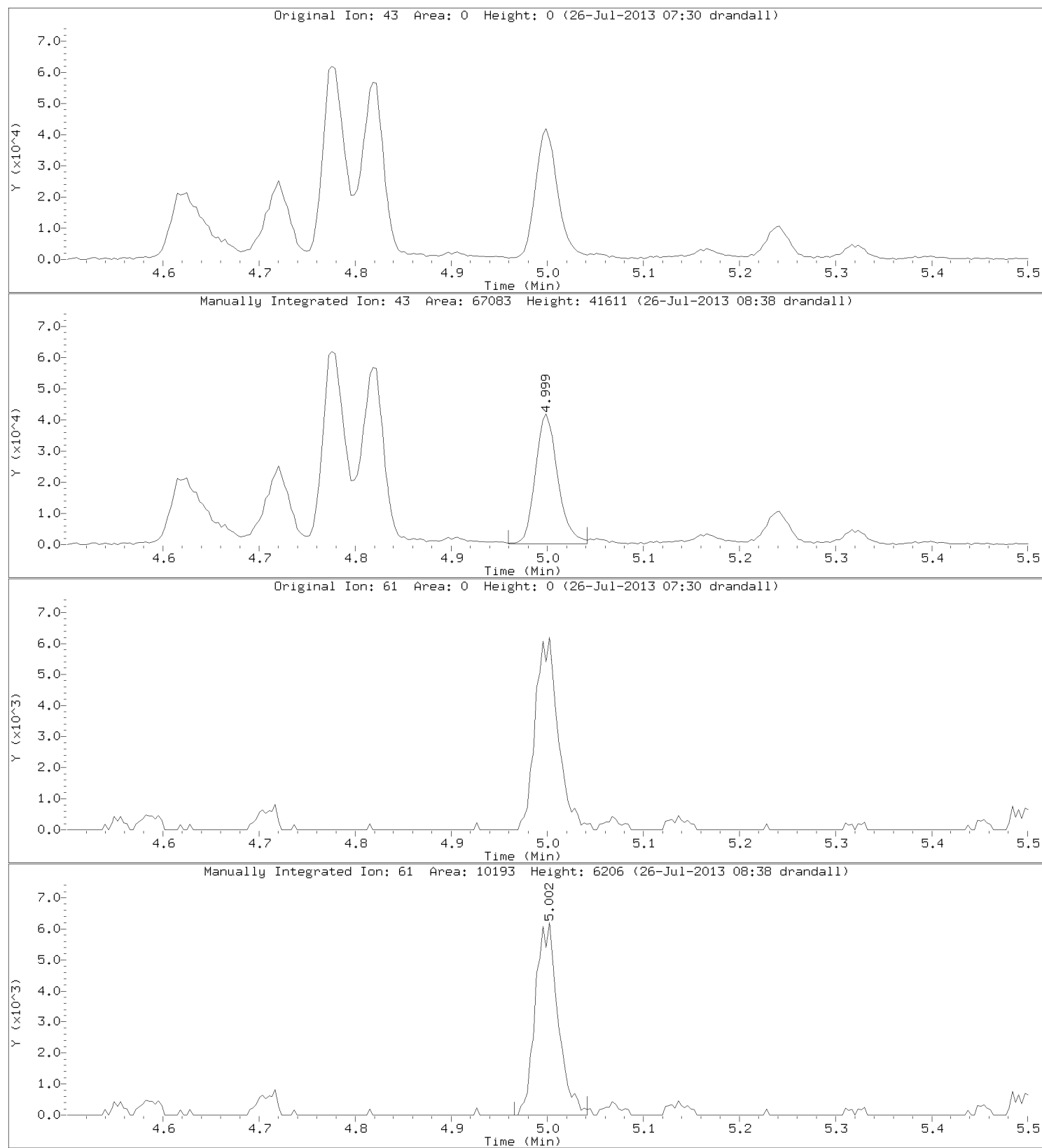


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Injection Date: 26-JUL-2013 04:34
Instrument: 10airD.i
Lab Sample ID: 10236207004

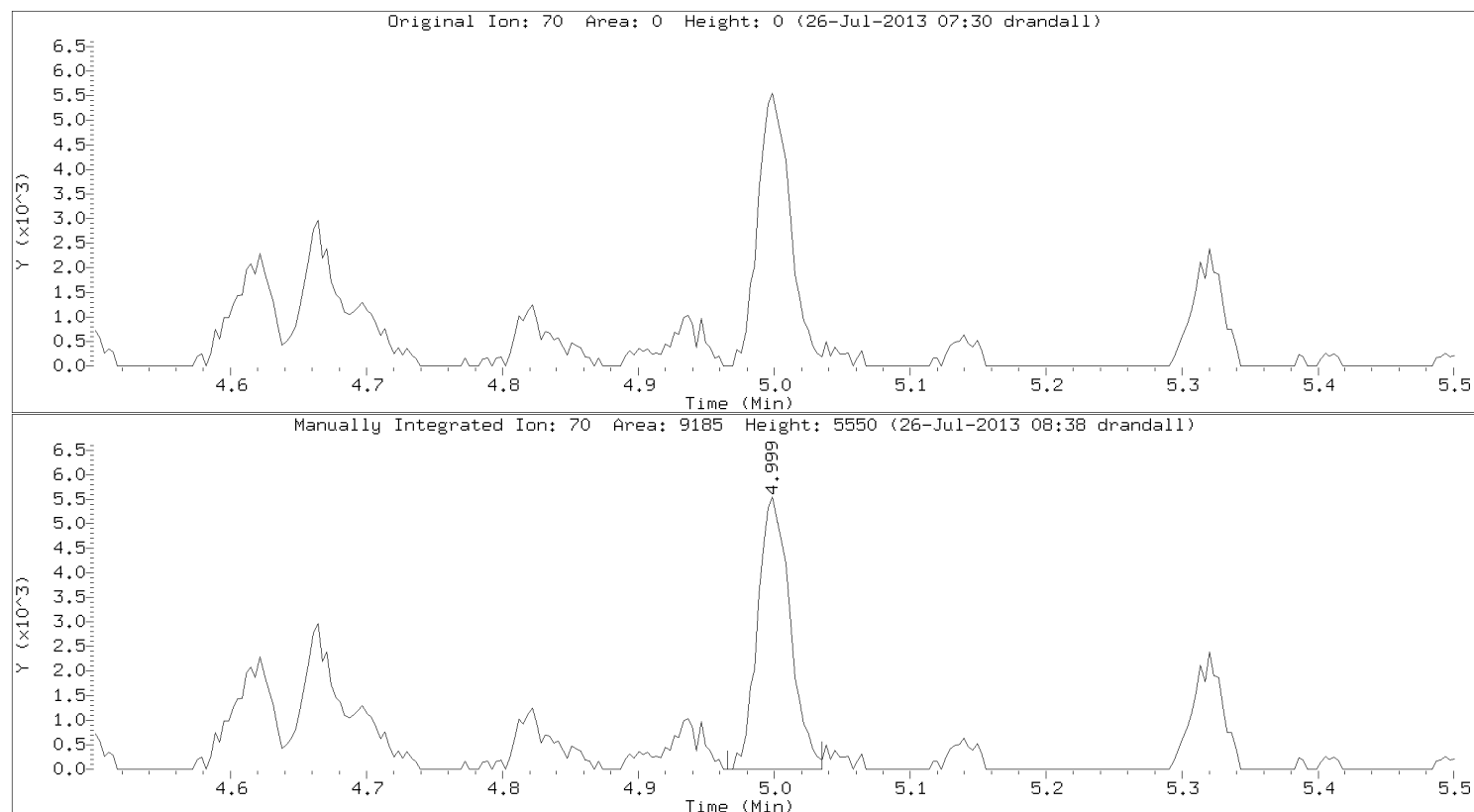


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Injection Date: 26-JUL-2013 04:34
Instrument: 10airD.i
Lab Sample ID: 10236207004

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

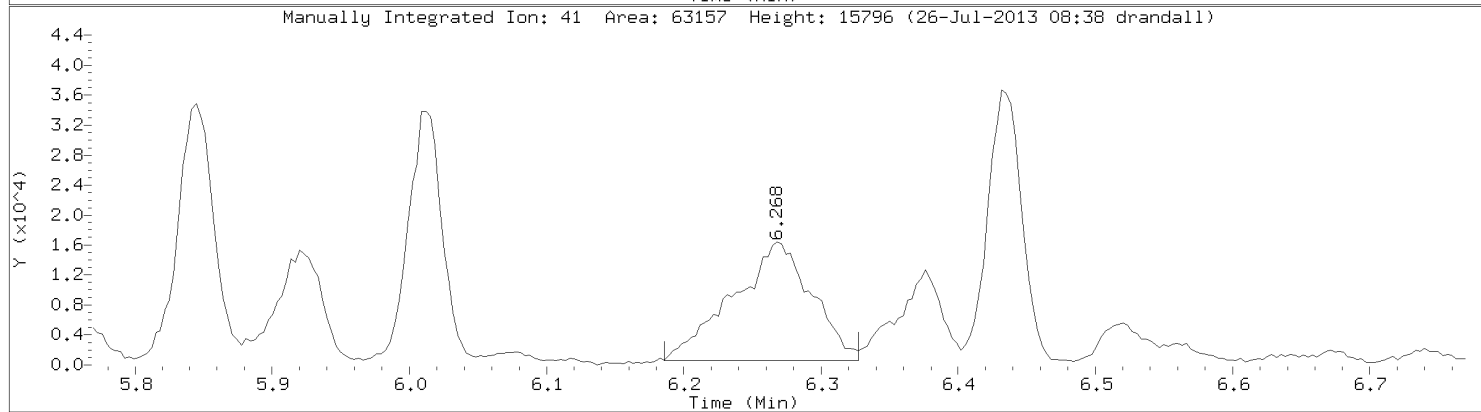
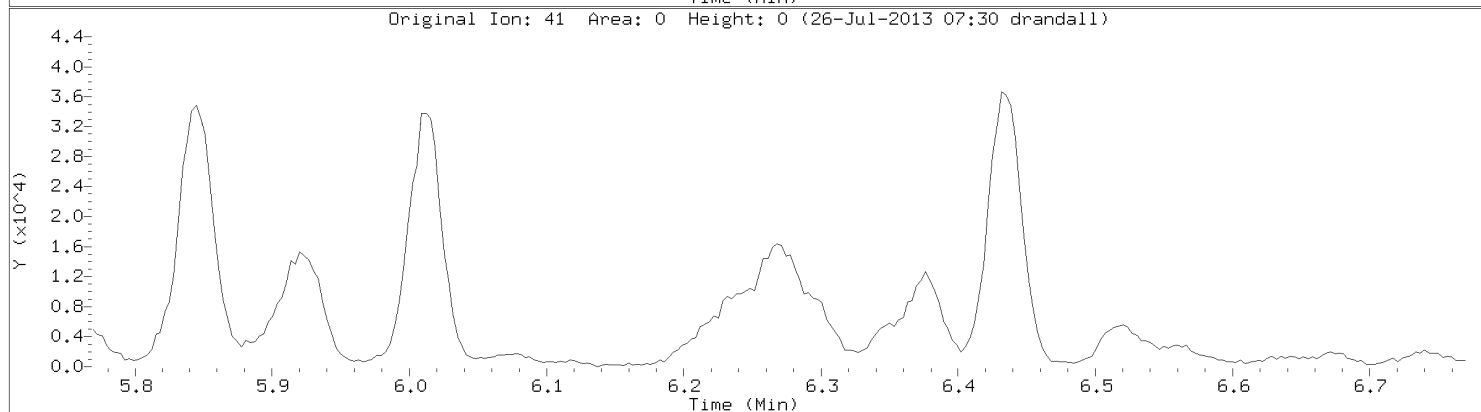
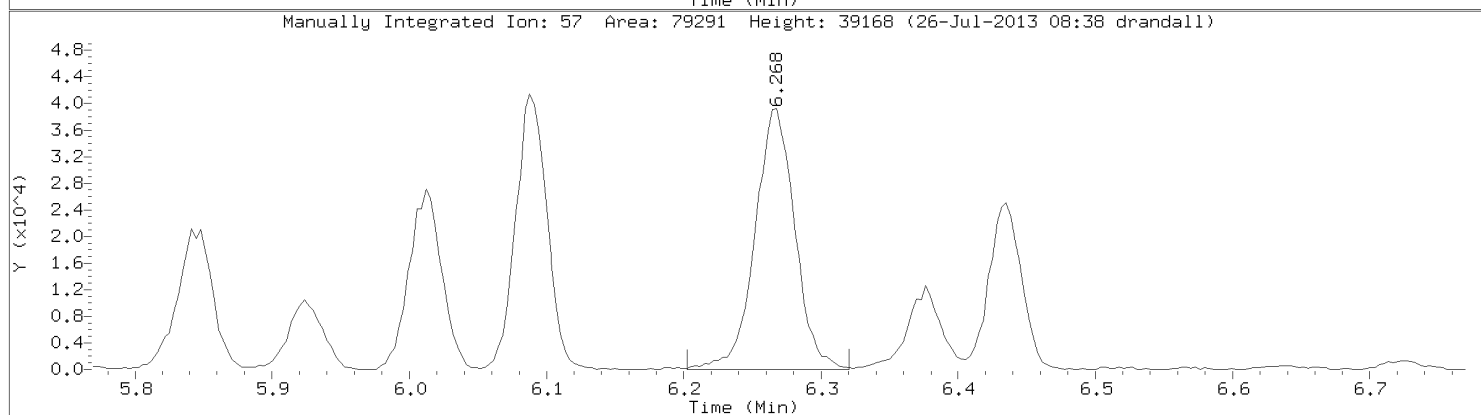
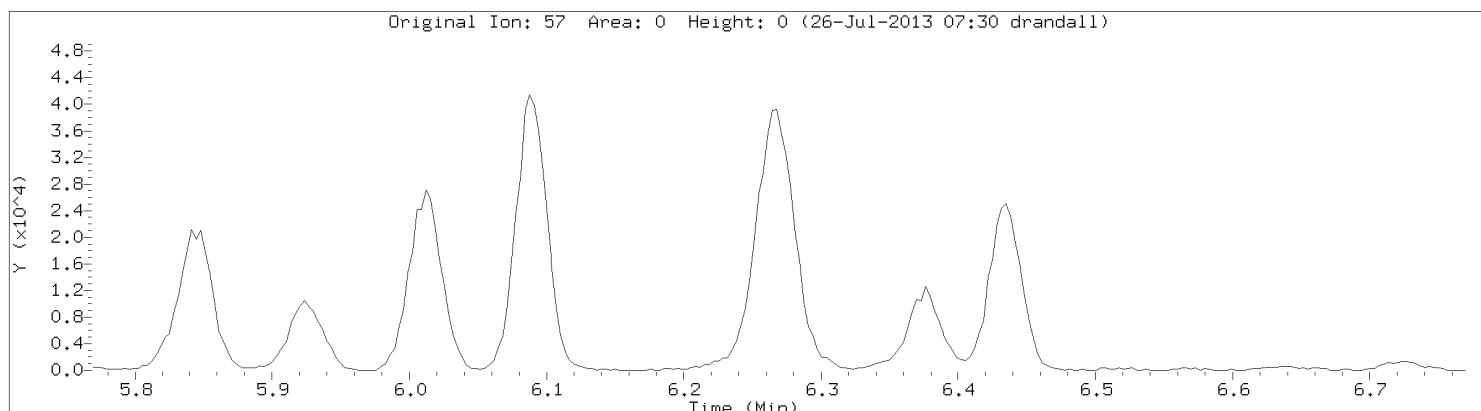


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Lab Sample ID: 10236207004

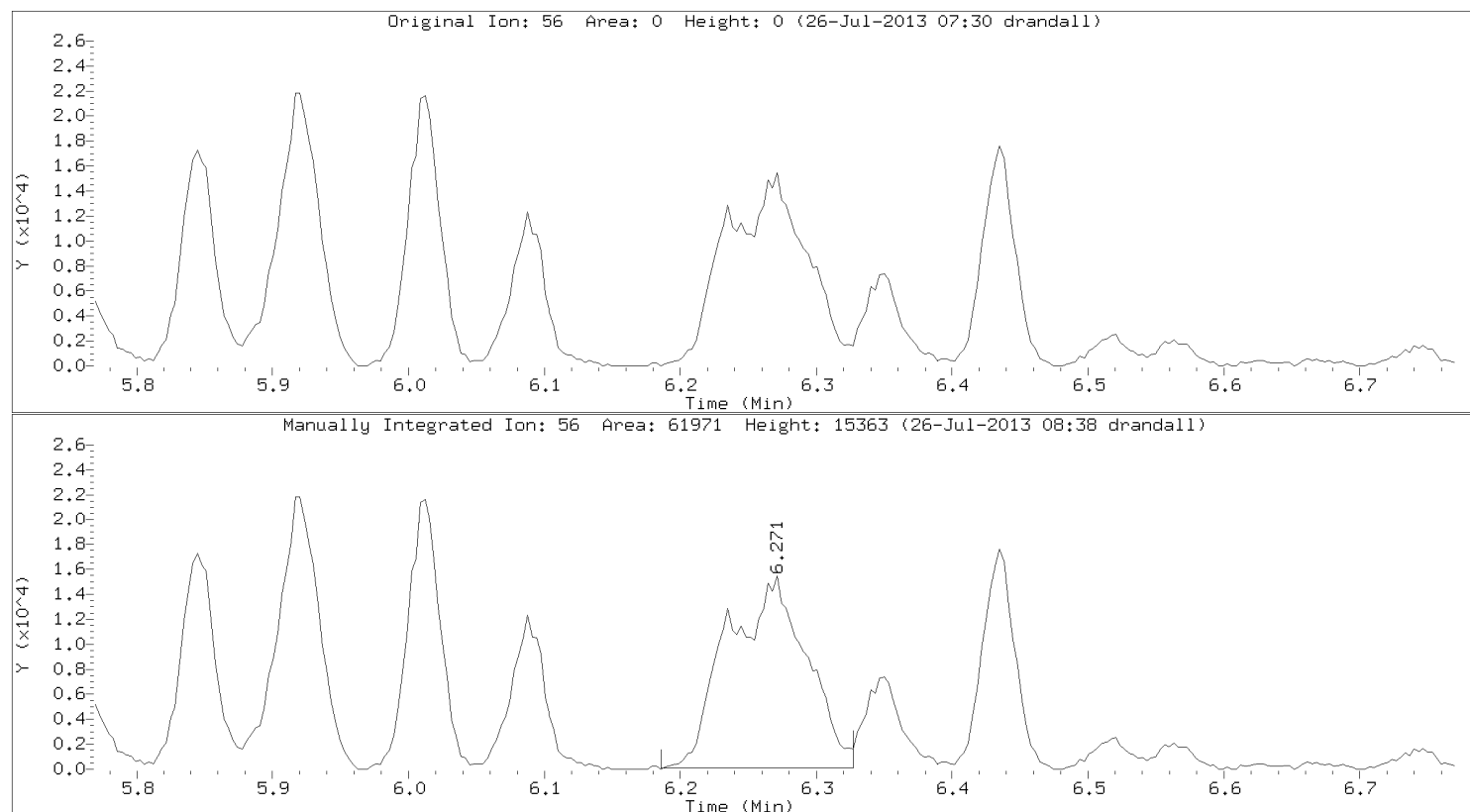


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Injection Date: 26-JUL-2013 04:34
Instrument: 10airD.i
Lab Sample ID: 10236207004

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

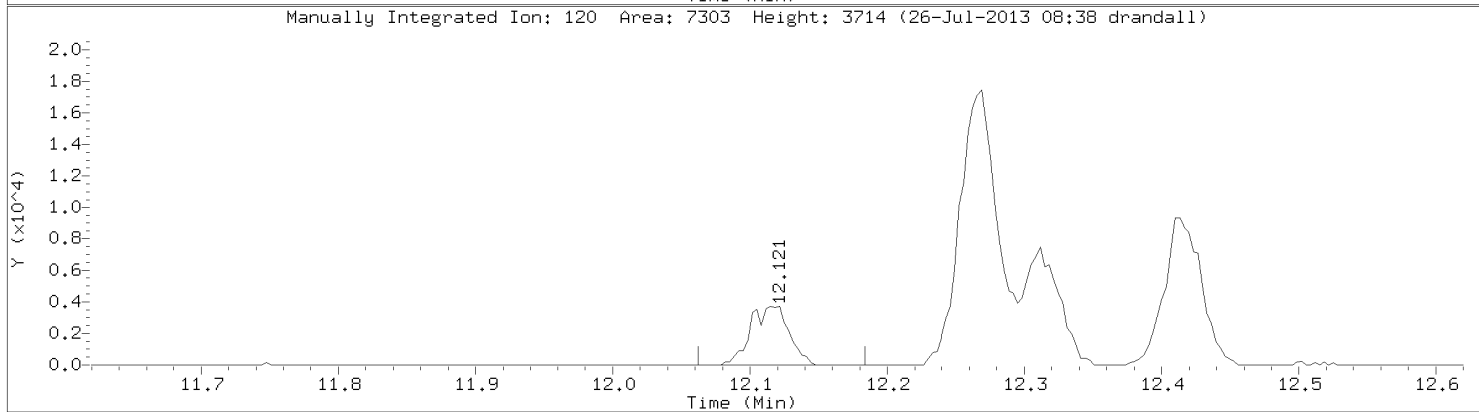
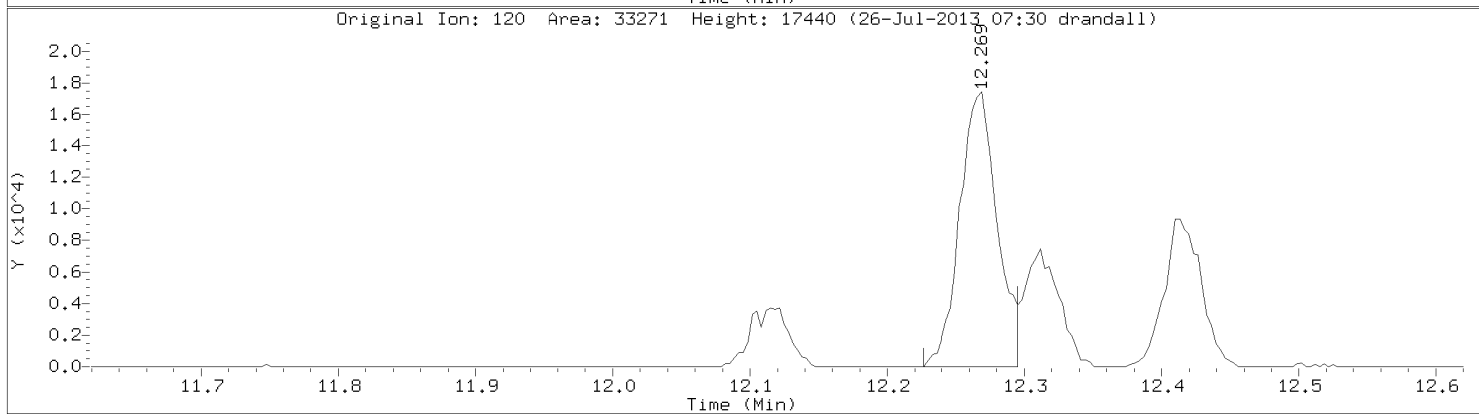
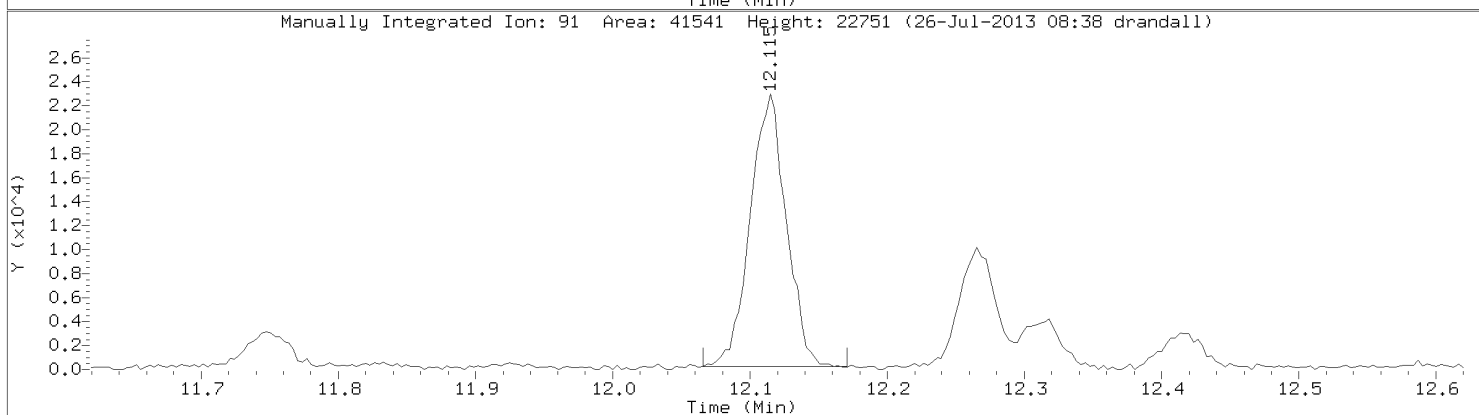
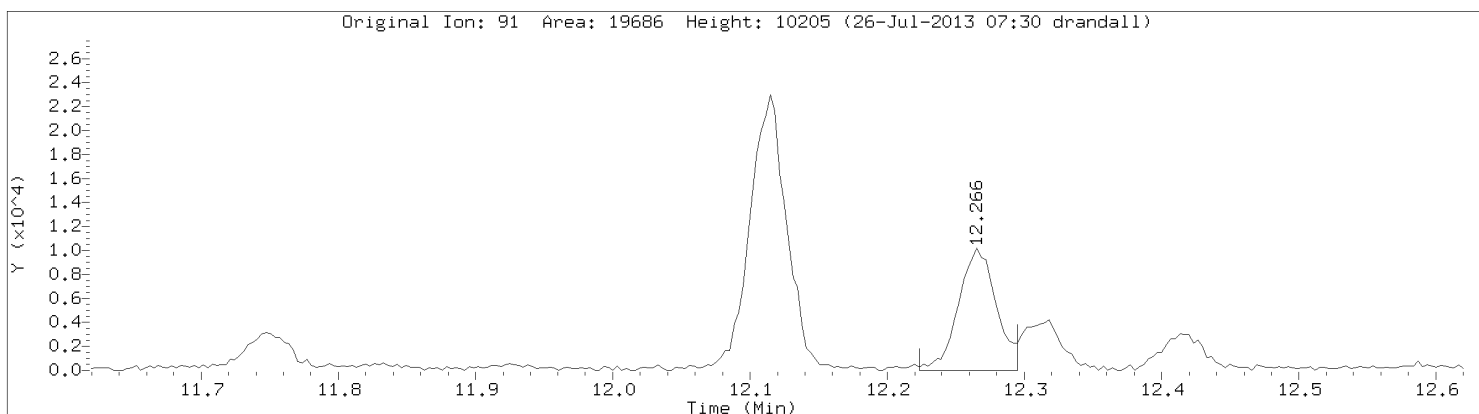


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Injection Date: 26-JUL-2013 04:34
Instrument: 10airD.i
Lab Sample ID: 10236207004



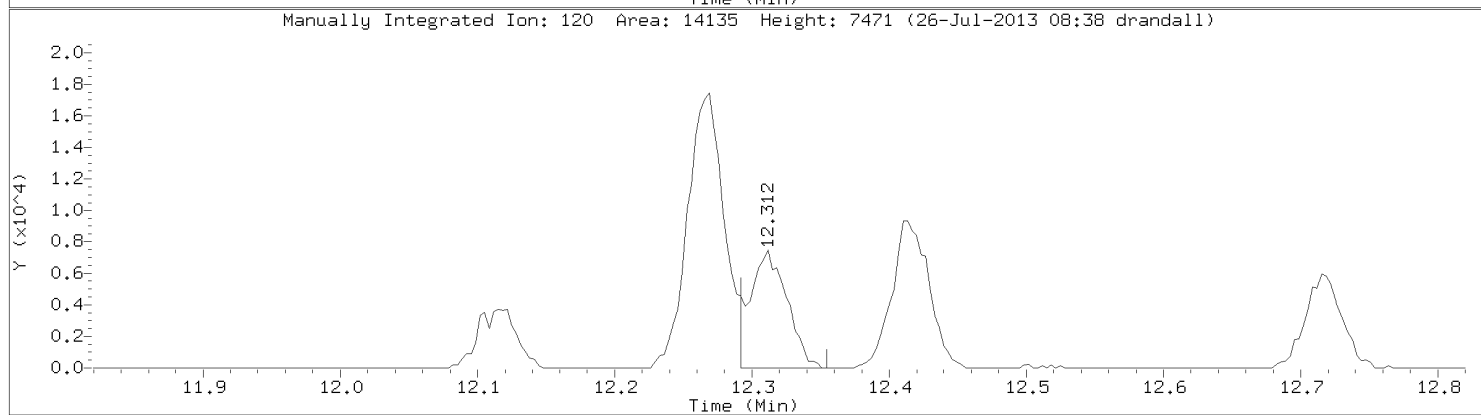
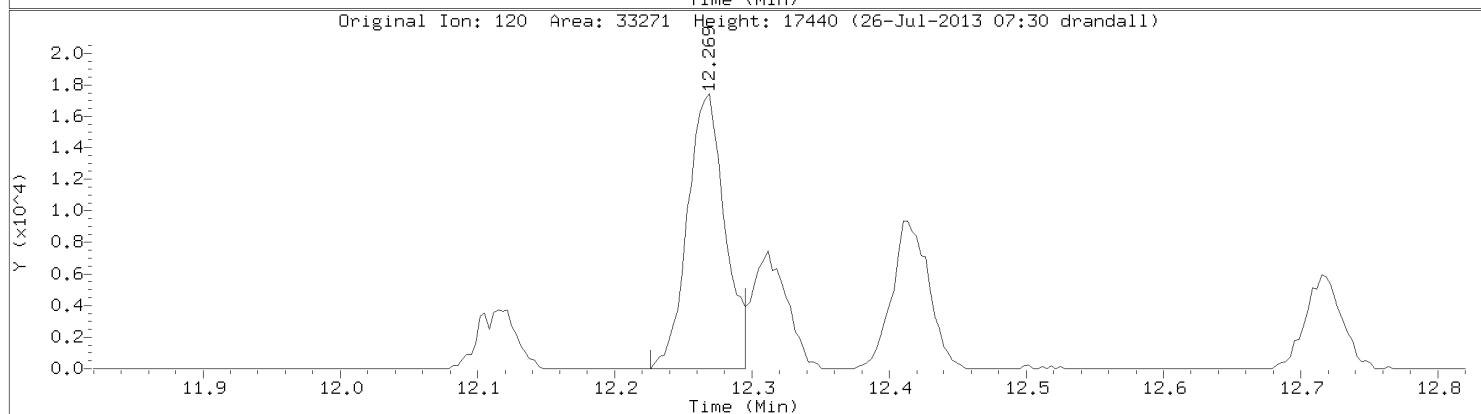
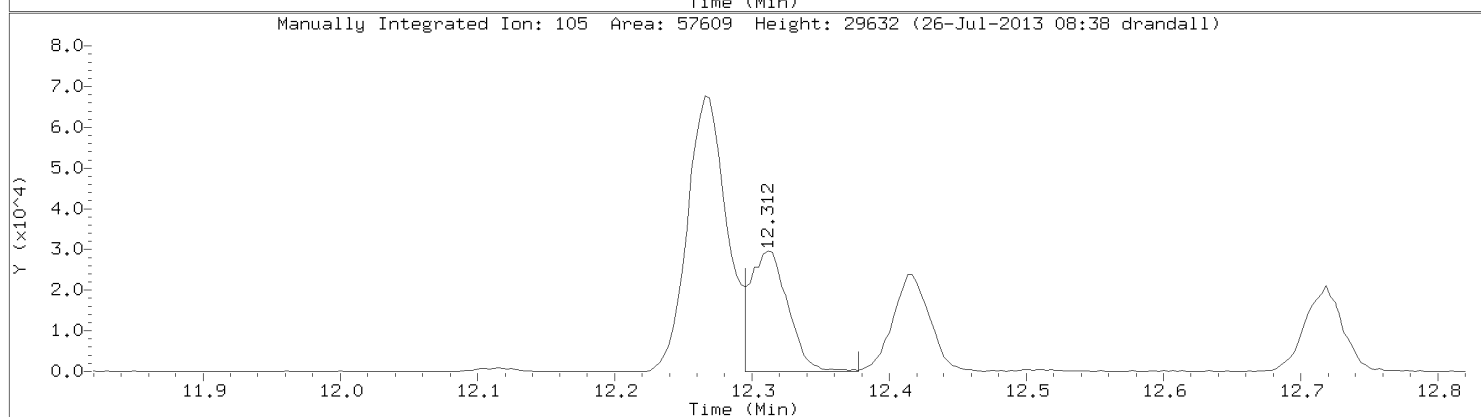
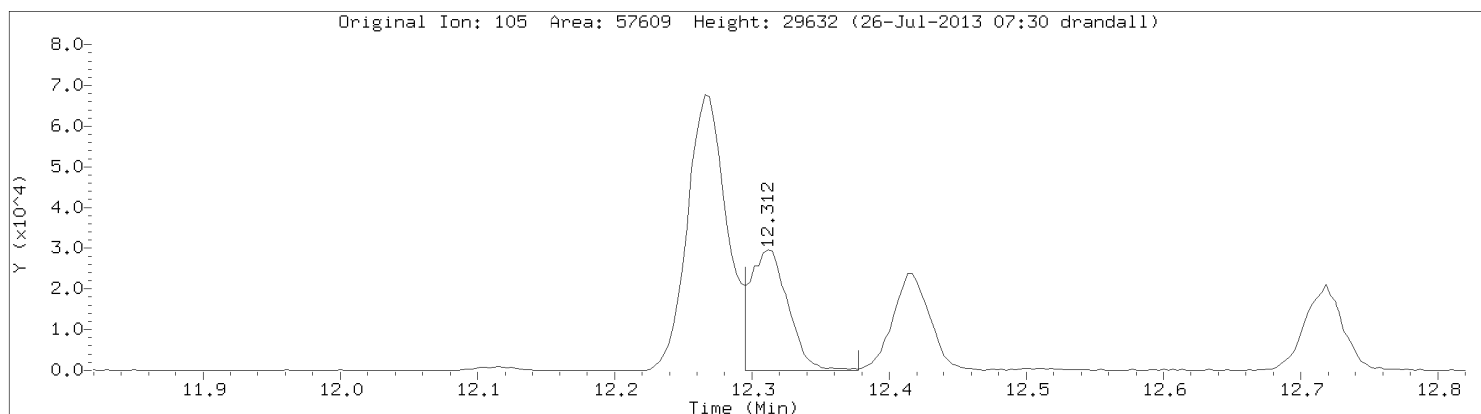
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Injection Date: 26-JUL-2013 04:34
Instrument: 10airD.i
Lab Sample ID: 10236207004

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

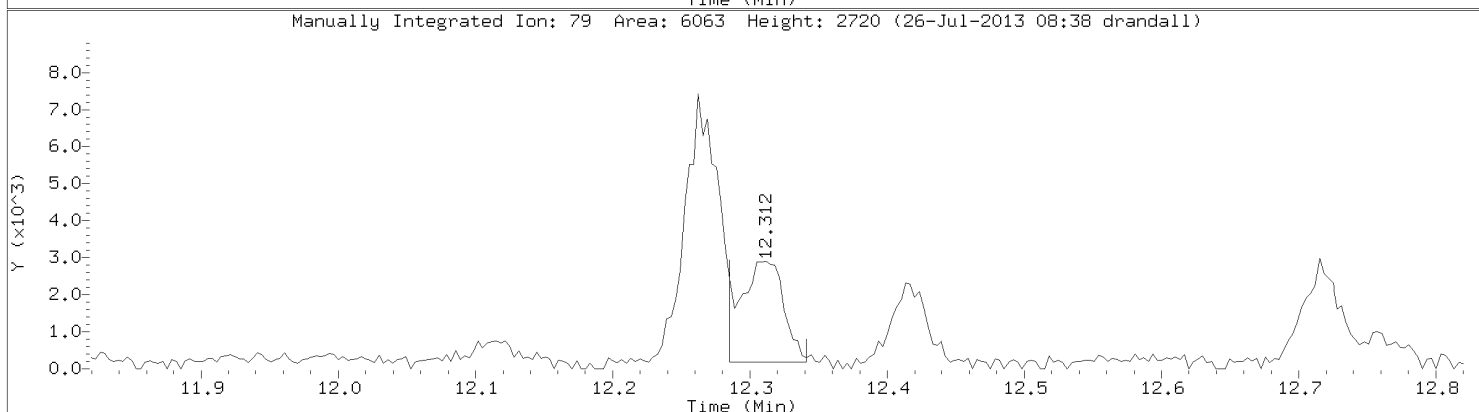
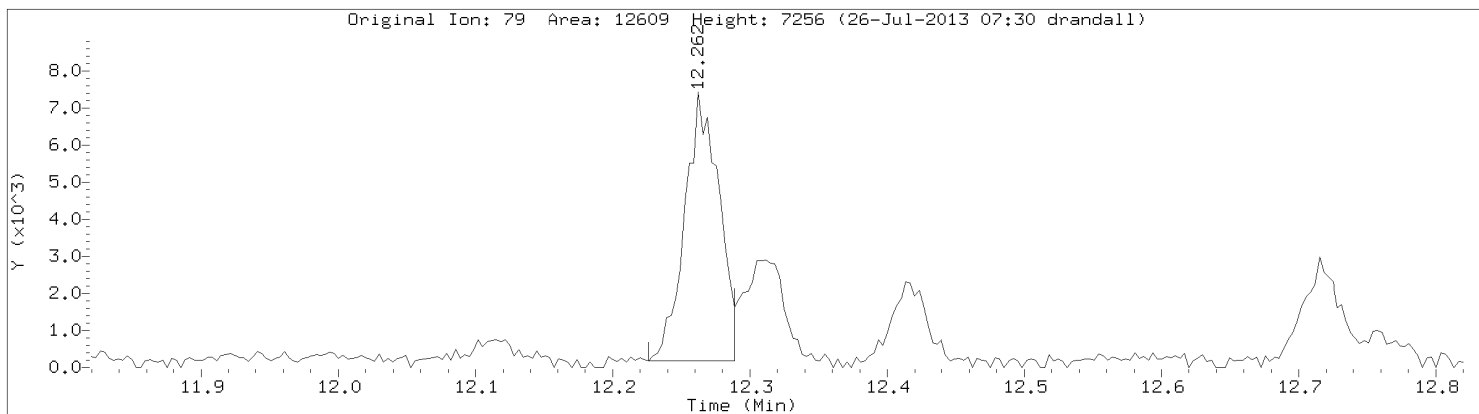


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Injection Date: 26-JUL-2013 04:34
Instrument: 10airD.i
Lab Sample ID: 10236207004

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

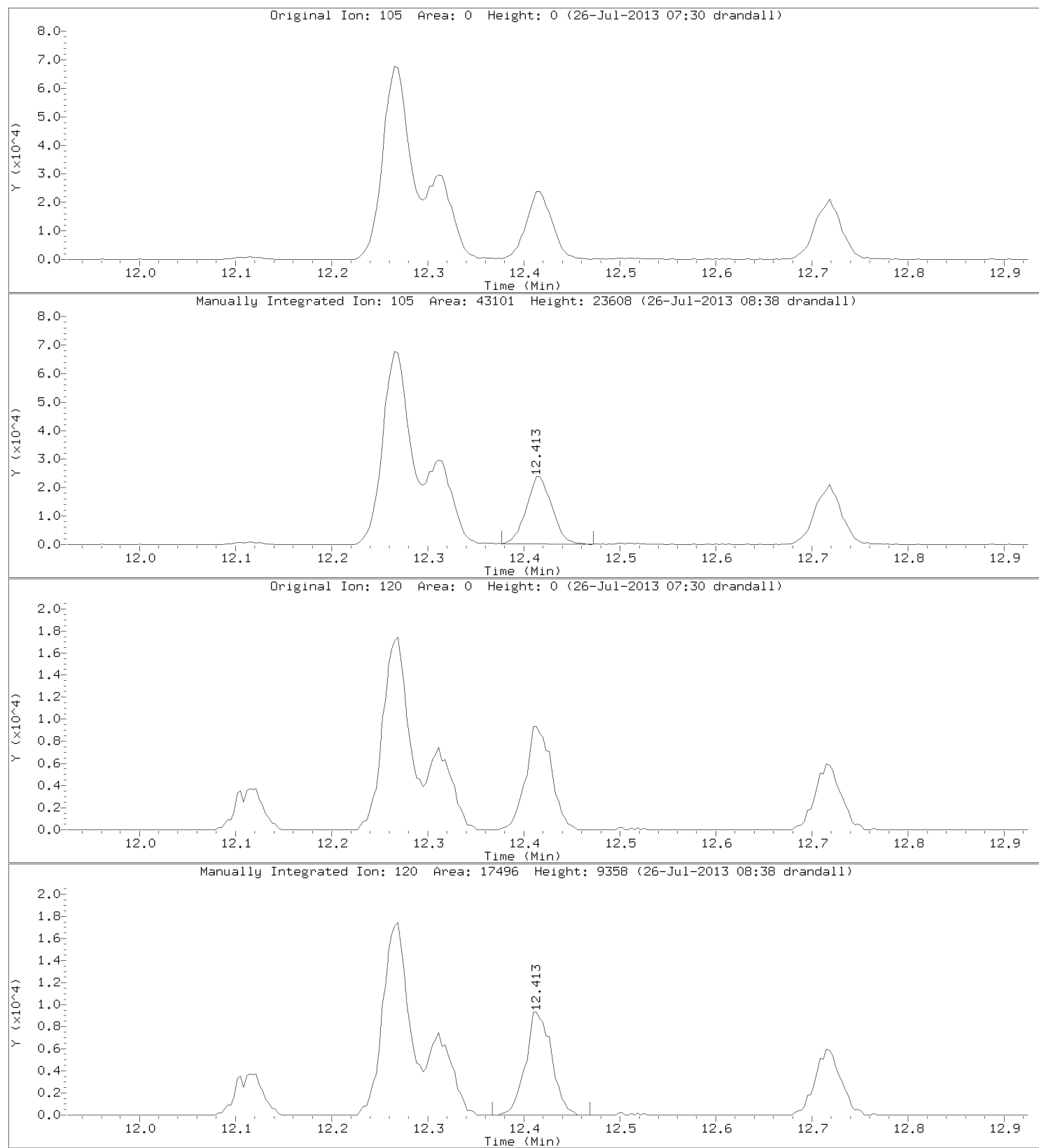


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Injection Date: 26-JUL-2013 04:34
Instrument: 10airD.i
Lab Sample ID: 10236207004



Data File: \\192.168.10.12\chem\10airD.i\072513.b\20632.d
Injection Date: 26-JUL-2013 04:34
Instrument: 10airD.i
Lab Sample ID: 10236207004

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



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072513.b\20618.d
 Lab Smp Id: 10236207005
 Inj Date : 25-JUL-2013 21:26
 Operator : DR1 Inst ID: 10airD.i
 Smp Info :
 Misc Info : 17870
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
 Meth Date : 25-Jul-2013 16:57 creindl Quant Type: ISTD
 Cal Date : 24-JUL-2013 16:39 Cal File: 20509.d
 Als bottle: 18
 Dil Factor: 1.44000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

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 MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
1 Propylene	41		2.975	2.982	(0.489)	379497	38.4938	55.4 (A)
2 Dichlorodifluoromethane	85		3.001	3.008	(0.493)	23717	0.25040	0.360
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		3.493	3.494	(0.574)	74563	6.60791	9.52 (M)
10 Vinyl Bromide	106					Compound Not Detected.		
11 Acrolein	56					Compound Not Detected.		
12 Trichlorofluoromethane	101		3.696	3.694	(0.607)	12369	0.12005	0.173
13 Acetone	43		3.726	3.726	(0.612)	591446	11.4521	16.5
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		3.978	3.989	(0.654)	72104	1.33079	1.92 (M)
18 Freon 113	101					Compound Not Detected.		
19 Methylene chloride	49		4.100	4.094	(0.674)	8986	0.30710	0.442
20 Allyl Chloride	76					Compound Not Detected.		
21 Carbon Disulfide	76		4.228	4.224	(0.695)	39975	0.46947	0.676
22 trans-1,2-dichloroethene	96					Compound Not Detected.		
23 Methyl Tert Butyl Ether	73					Compound Not Detected.		
24 Vinyl Acetate	43					Compound Not Detected.		

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppbv)	FINAL (ppbv)
25 1,1-Dichloroethane	63		Compound Not Detected.						
\$ 26 Hexane-d14 (S)	66		4.700	4.700	(0.772)	324213	8.61835	8.62	
27 Methyl Ethyl Ketone	72		4.772	4.779	(0.784)	42779	3.57775	5.15	
28 n-Hexane	57		4.815	4.818	(0.791)	62047	1.81435	2.61 (M)	
29 cis-1,2-Dichloroethene	96		Compound Not Detected.						
30 Ethyl Acetate	43		4.995	4.999	(0.821)	59520	1.77077	2.55 (Q)	
31 Chloroform	83		Compound Not Detected.						
32 Tetrahydrofuran	42		Compound Not Detected.						
33 1,1,1-Trichloroethane	97		Compound Not Detected.						
34 1,2-Dichloroethane	62		Compound Not Detected.						
35 Benzene	78		5.880	5.887	(0.966)	177143	2.82349	4.06	
36 Carbon tetrachloride	117		Compound Not Detected.						
37 Cyclohexane	56		5.910	5.910	(0.971)	12708	0.92014	1.32 (QM)	
* 38 1,4-Difluorobenzene	114		6.087	6.094	(1.000)	779031	10.0000		
39 2,2,4-Trimethylpentane	57		Compound Not Detected.						
40 Heptane	43		6.435	6.442	(1.057)	20349	1.17673	1.69 (M)	
41 1,2-Dichloropropane	63		Compound Not Detected.						
42 Trichloroethene	130		Compound Not Detected.						
43 1,4-Dioxane	88		Compound Not Detected.						
44 Bromodichloromethane	83		Compound Not Detected.						
45 Methyl Isobutyl Ketone	43		7.222	7.229	(1.186)	10289	0.65235	0.939 (M)	
46 cis-1,3-Dichloropropene	75		Compound Not Detected.						
47 trans-1,3-Dichloropropene	75		Compound Not Detected.						
\$ 48 Toluene-d8 (S)	98		7.841	7.848	(1.288)	557405	10.2451	10.2	
49 Toluene	91		7.930	7.940	(1.303)	334825	3.92960	5.66	
50 1,1,2-Trichloroethane	97		Compound Not Detected.						
51 Methyl Butyl Ketone	43		Compound Not Detected.						
52 Dibromochloromethane	129		Compound Not Detected.						
53 1,2-Dibromoethane	107		Compound Not Detected.						
54 Tetrachloroethene	166		8.914	8.918	(0.920)	7024	0.53002	0.763 (M)	
* 55 Chlorobenzene - d5	117		9.684	9.691	(1.000)	291914	10.0000		
56 Chlorobenzene	112		Compound Not Detected.						
57 Ethyl Benzene	91		10.035	10.039	(1.036)	90712	1.10191	1.59	
58 m&p-Xylene	91		10.202	10.213	(1.053)	277898	3.32295	4.78	
59 Bromoform	173		Compound Not Detected.						
60 Styrene	104		10.698	10.708	(1.105)	12800	0.68000	0.979 (M)	
61 o-Xylene	91		10.776	10.783	(1.113)	90802	1.15847	1.67	
62 1,1,2,2-Tetrachloroethane	83		Compound Not Detected.						
63 Isopropylbenzene	105		Compound Not Detected.						
64 N-Propylbenzene	91		12.114	12.121	(1.251)	24485	0.47220	0.680 (M)	
65 4-Ethyltoluene	105		12.308	12.321	(1.271)	33784	0.63641	0.916 (M)	
66 1,3,5-Trimethylbenzene	105		12.419	12.426	(1.282)	24336	0.55102	0.793 (M)	
67 1,2,4-Trimethylbenzene	105		13.013	13.020	(1.344)	110265	1.55535	2.24	
68 1,3-Dichlorobenzene	146		Compound Not Detected.						
69 Sec- Butylbenzene	105		Compound Not Detected.						
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.449	13.459	(1.389)	108724	9.22721	9.23	
71 Benzyl Chloride	91		Compound Not Detected.						
72 1,4-Dichlorobenzene	146		Compound Not Detected.						
73 1,2-Dichlorobenzene	146		Compound Not Detected.						
74 N-Butylbenzene	91		14.318	14.325	(1.478)	14245	0.43334	0.624 (M)	
75 1,2,4-Trichlorobenzene	180		Compound Not Detected.						
76 Naphthalene	128		16.856	16.860	(1.741)	39467	1.23079	1.77	
77 Hexachlorobutadiene	225		Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20618.d
Report Date: 26-Jul-2013 08:08

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\072513.b\20618.d
Report Date: 26-Jul-2013 08:08

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 20618.d
Lab Smp Id: 10236207005
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
Misc Info: 17870

Calibration Date: 25-JUL-2013
Calibration Time: 13:08

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	779031	34.37
55 Chlorobenzene - d	221404	132842	309966	291914	31.85

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	-0.05
55 Chlorobenzene - d	9.69	9.36	10.02	9.68	-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\072513.b\20618.D

Date : 25-JUL-2013 21:26

Client ID:

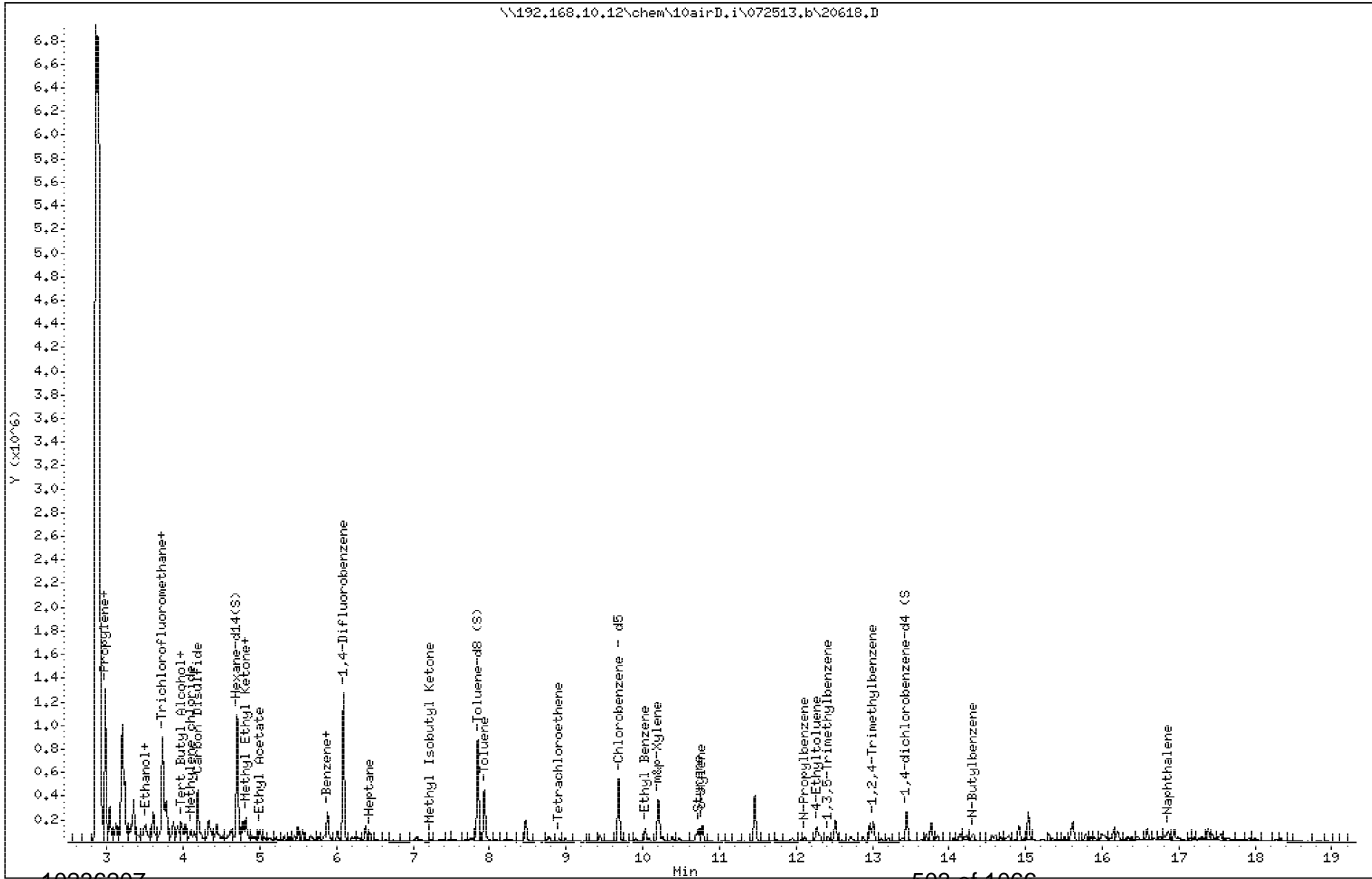
Instrument: 10airD.i

Sample Info:

Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20618.D

Date : 25-JUL-2013 21:26

Client ID:

Instrument: 10airD.i

Sample Info:

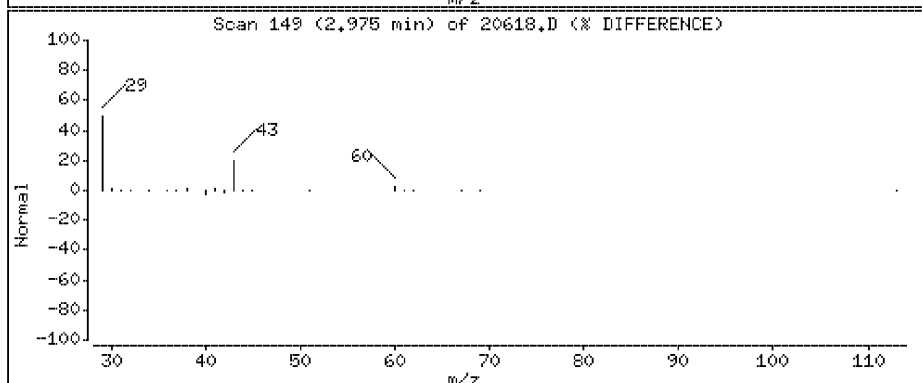
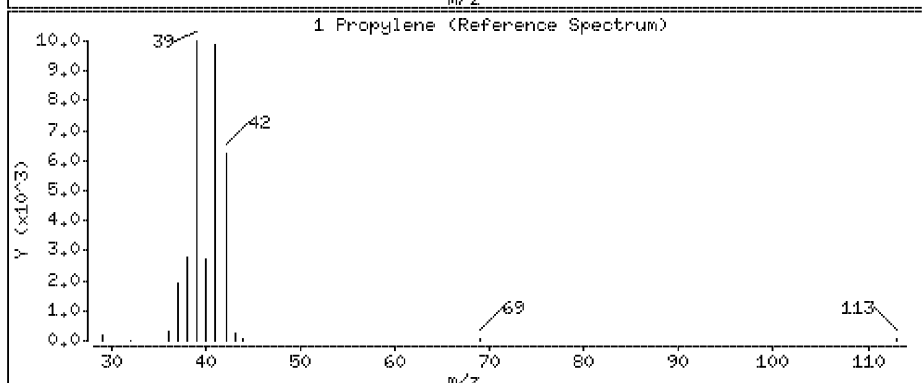
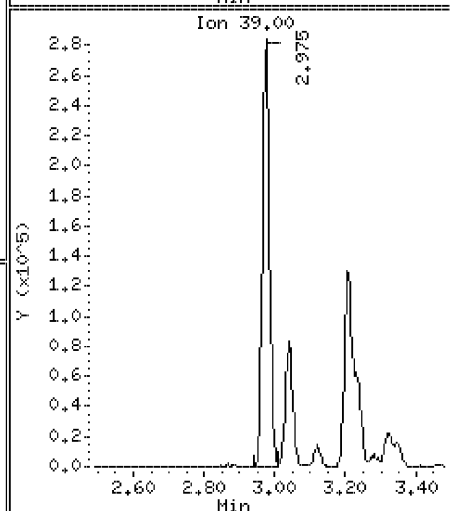
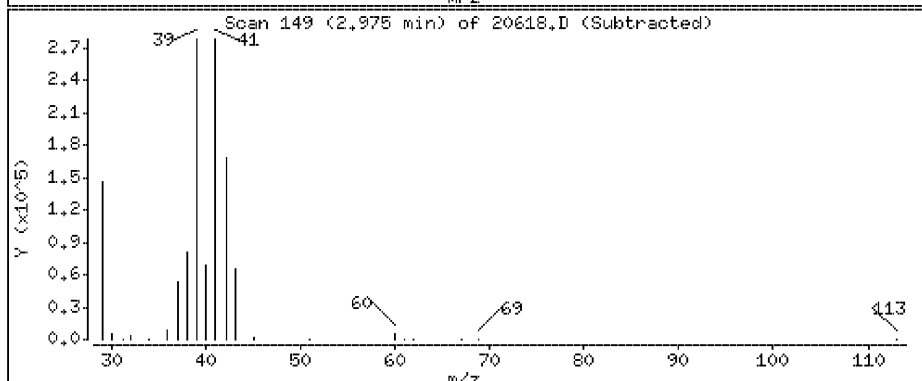
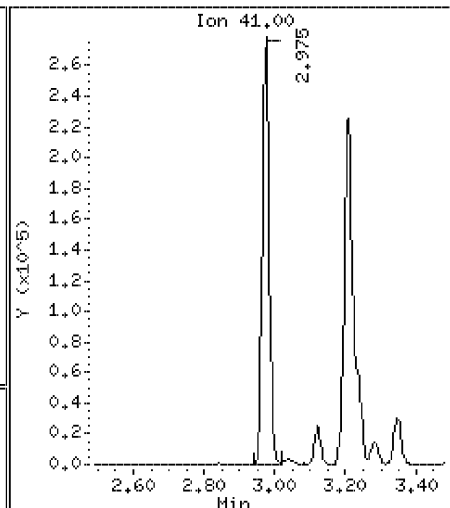
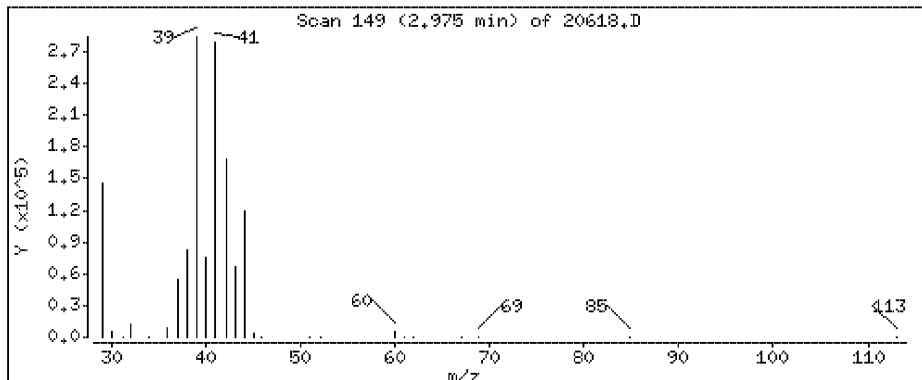
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

1 Propylene

Concentration: 55,4 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20618.D

Date : 25-JUL-2013 21:26

Client ID:

Instrument: 10airD.i

Sample Info:

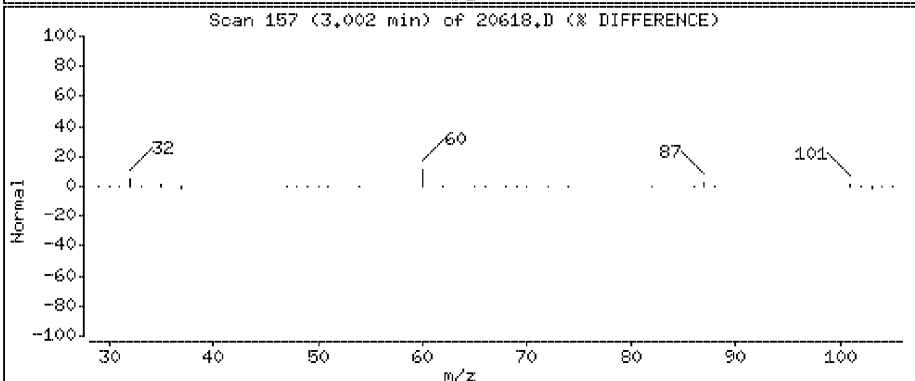
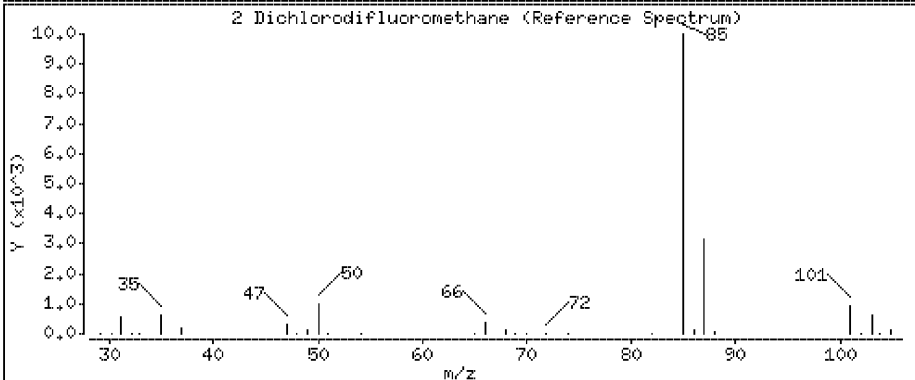
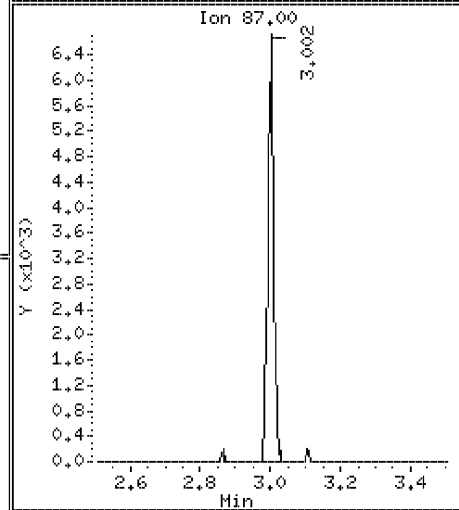
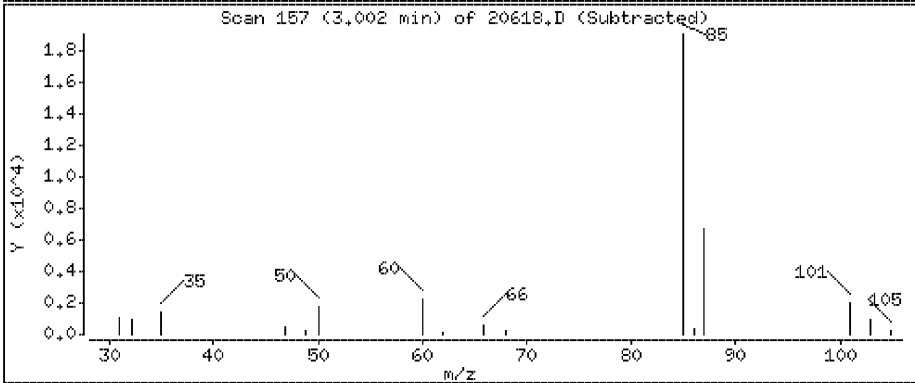
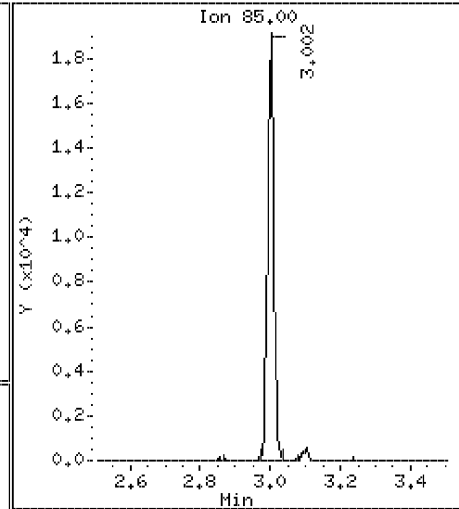
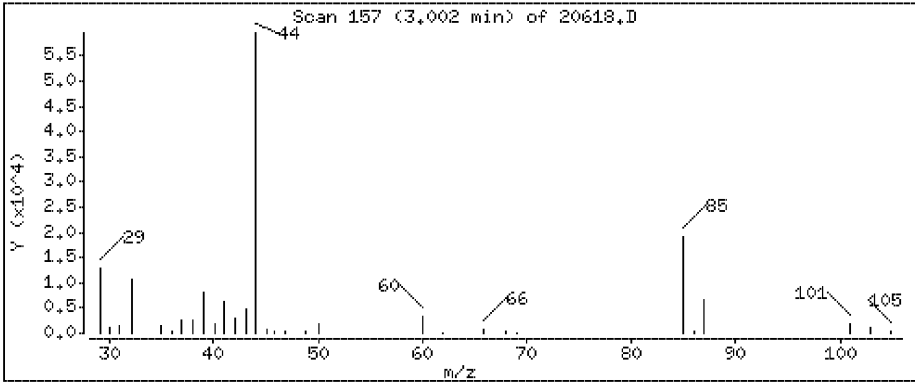
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

2 Dichlorodifluoromethane

Concentration: 0,360 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20618.D

Date : 25-JUL-2013 21:26

Client ID:

Instrument: 10airD.i

Sample Info:

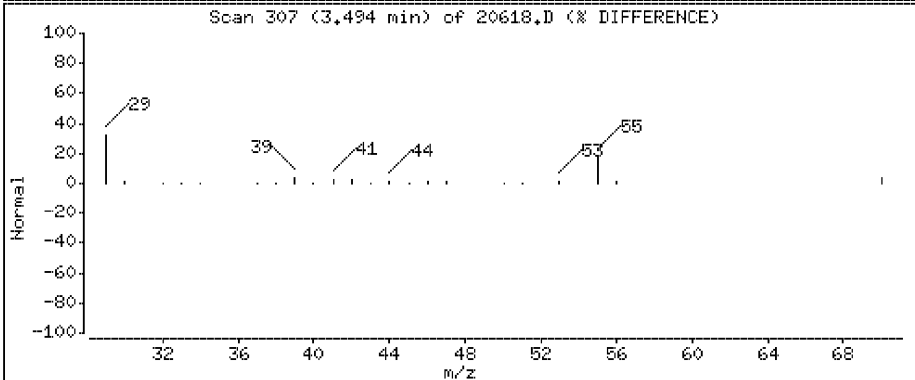
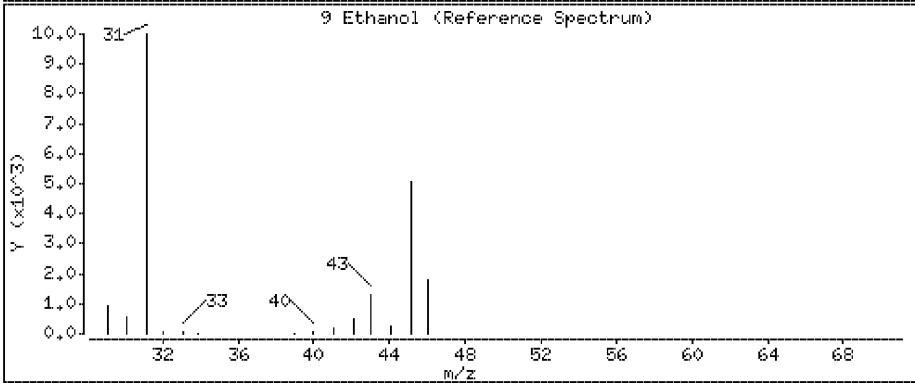
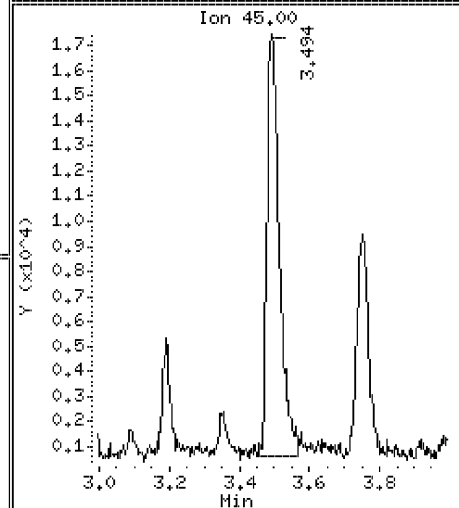
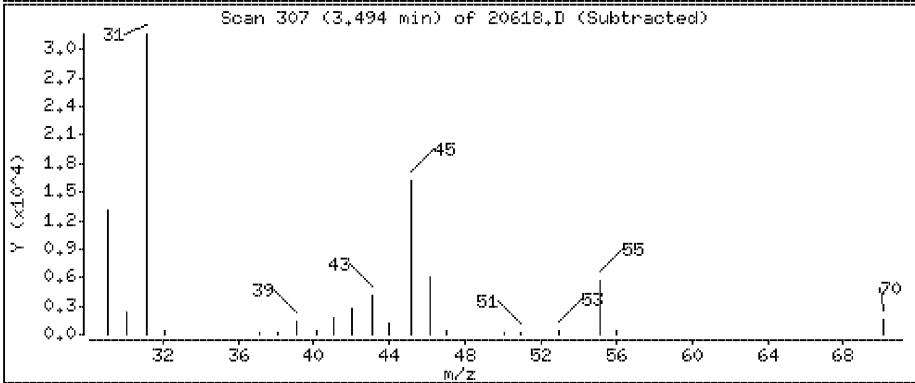
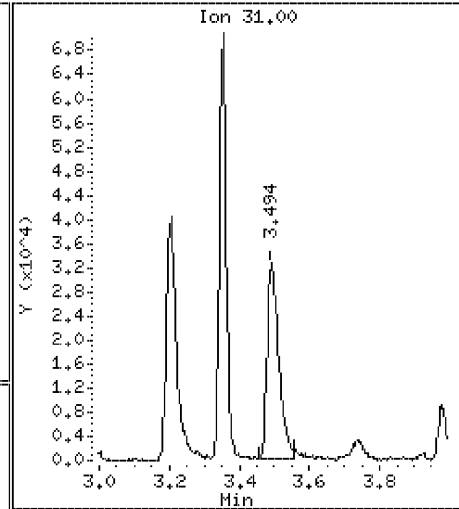
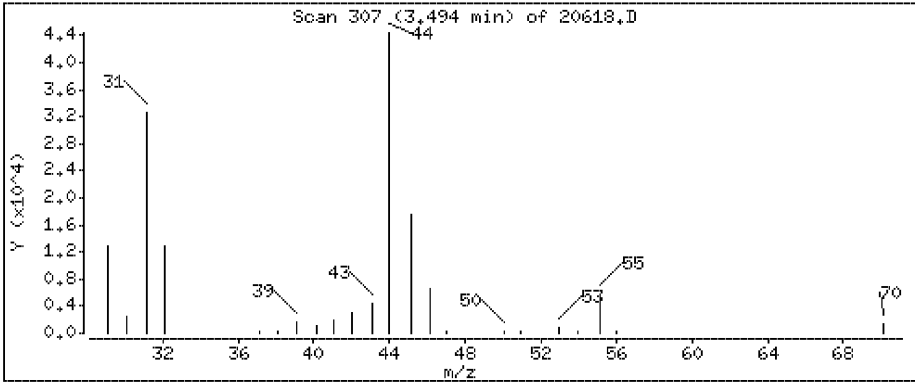
Operator: DR1

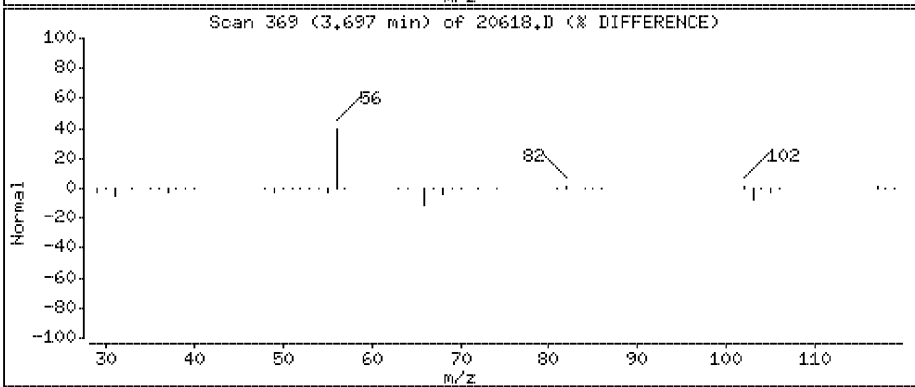
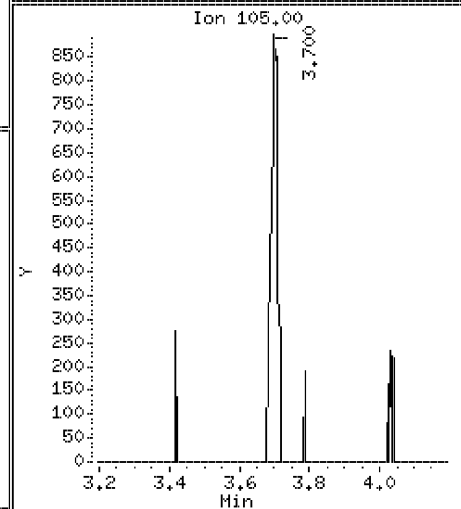
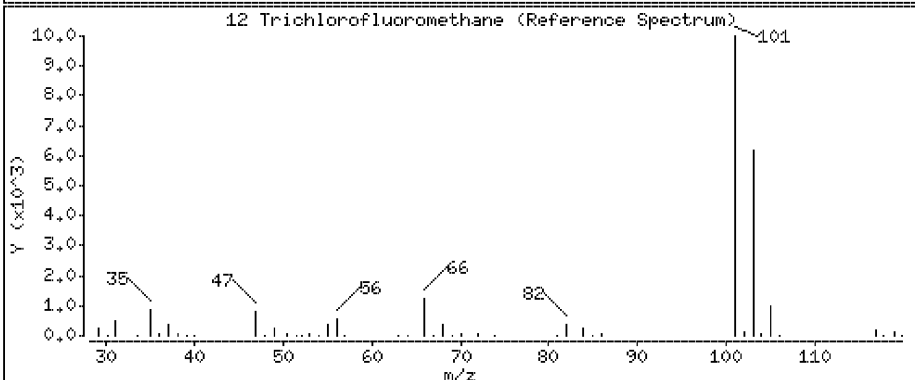
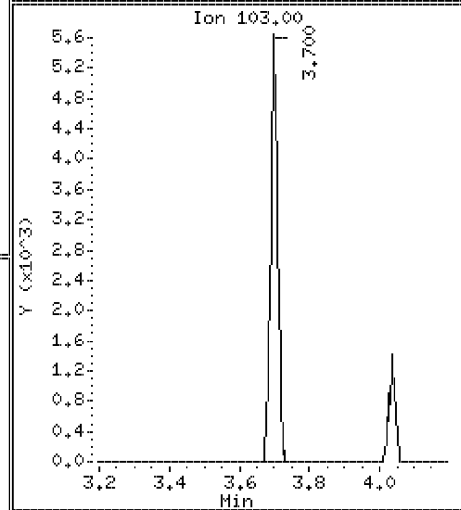
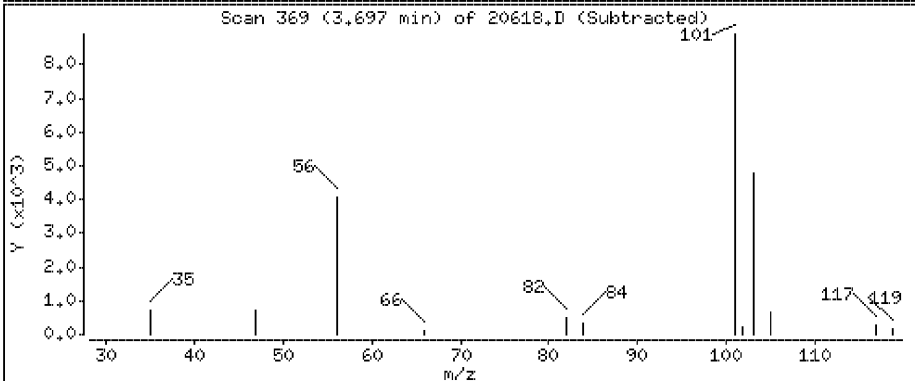
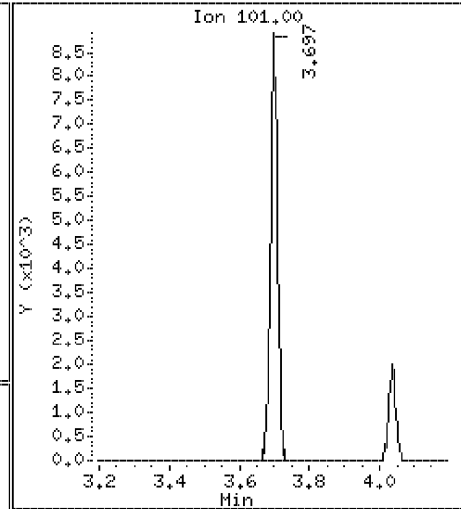
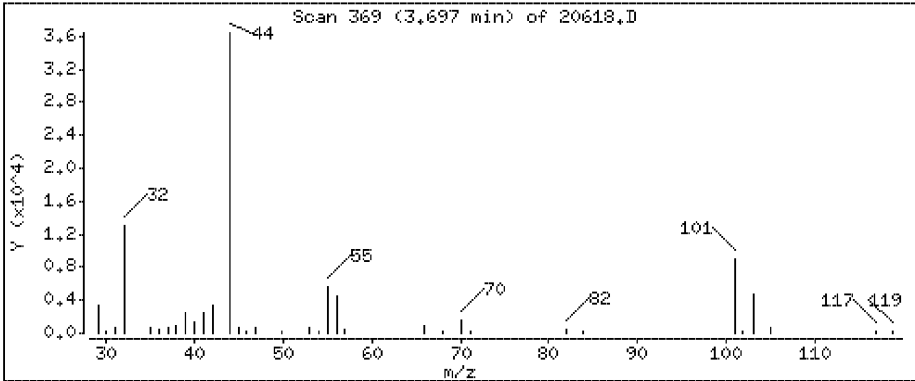
Column phase: J&W DB-5

Column diameter: 0.32

9 Ethanol

Concentration: 9.52 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20618.D

Date : 25-JUL-2013 21:26

Client ID:

Instrument: 10airD.i

Sample Info:

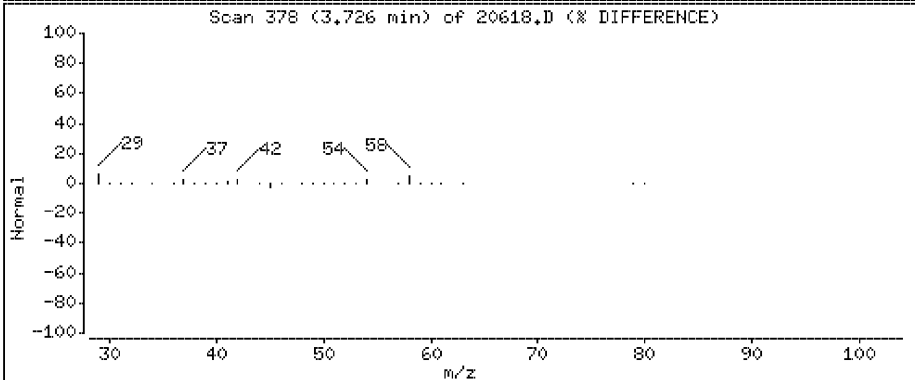
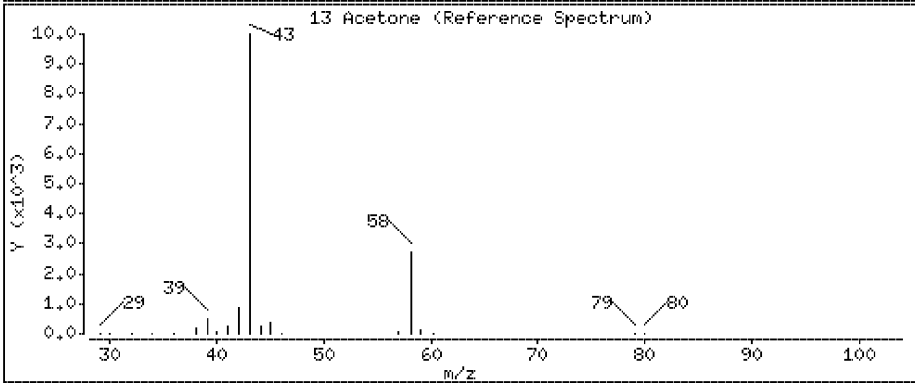
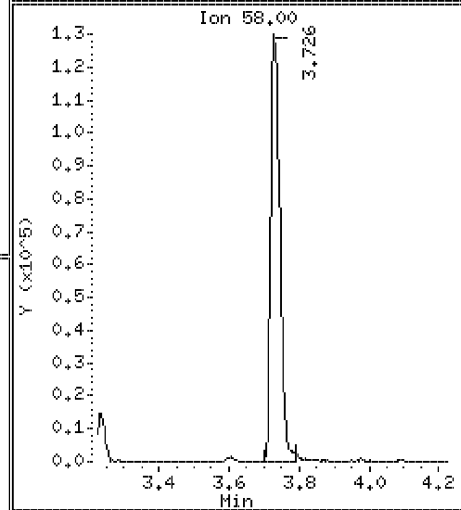
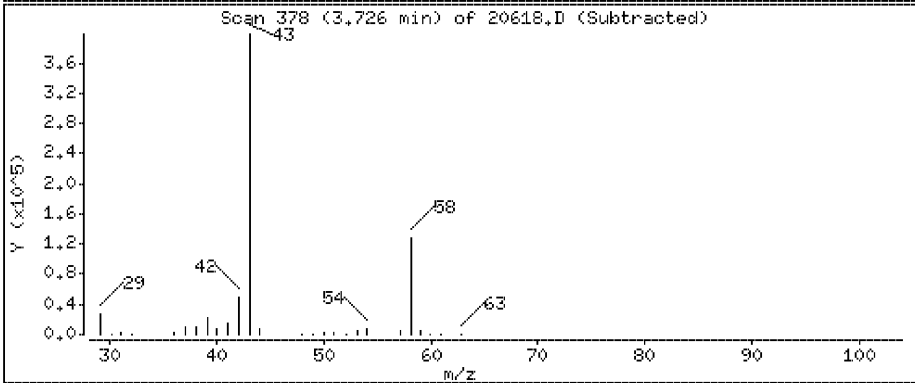
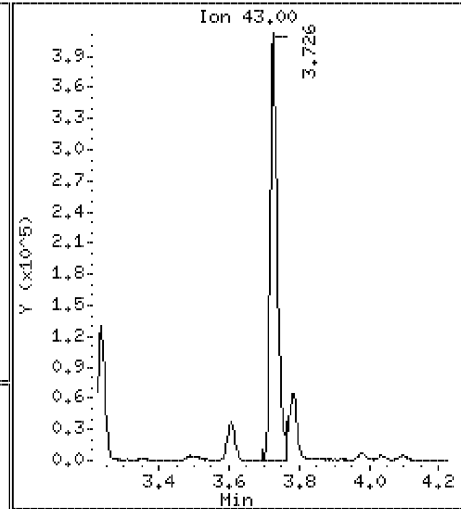
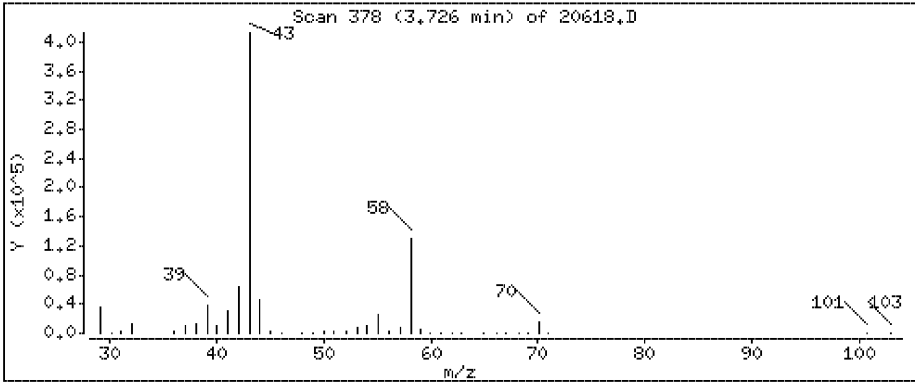
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

13 Acetone

Concentration: 16,5 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20618.D

Date : 25-JUL-2013 21:26

Client ID:

Instrument: 10airD.i

Sample Info:

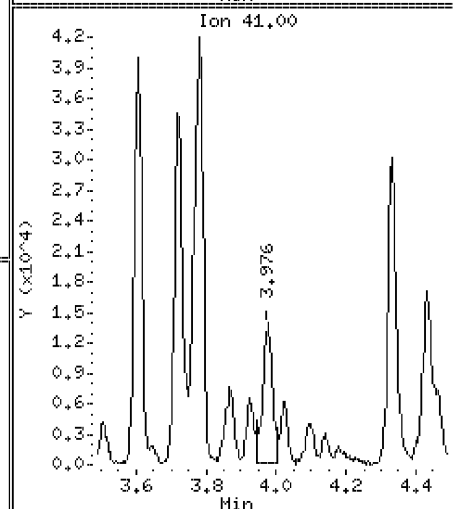
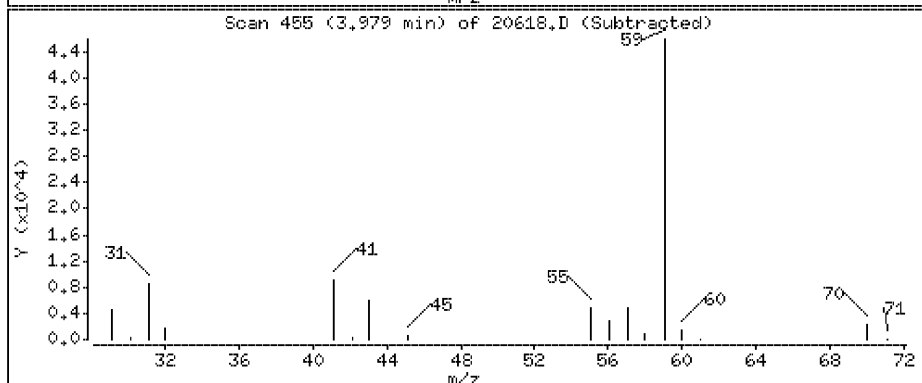
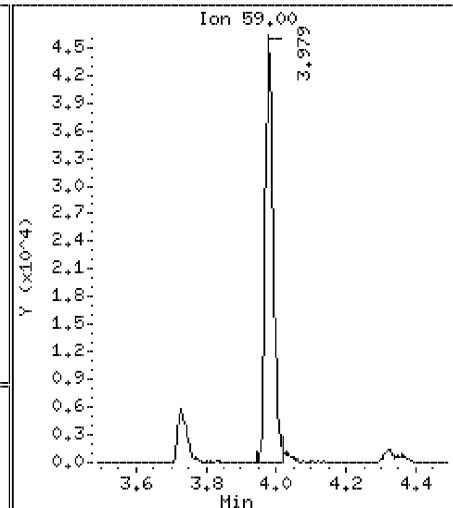
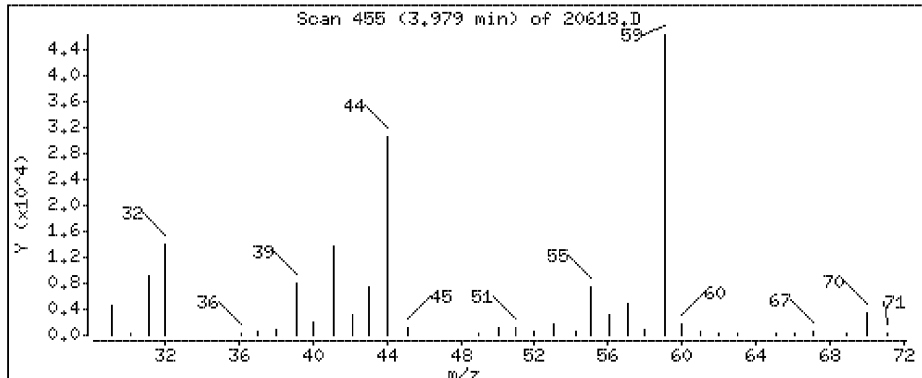
Operator: DR1

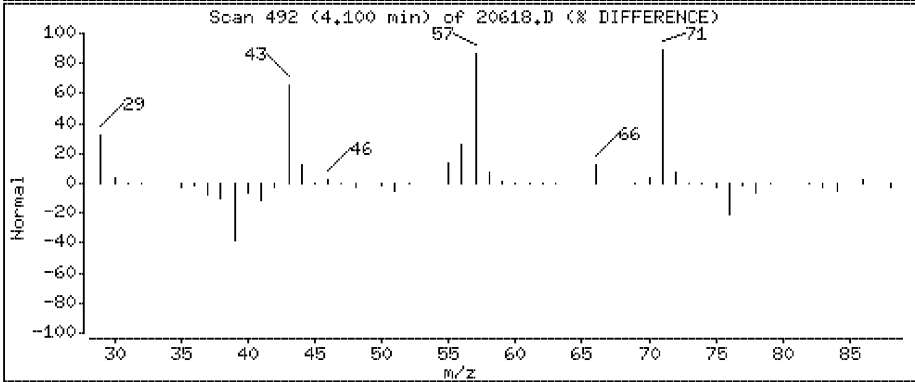
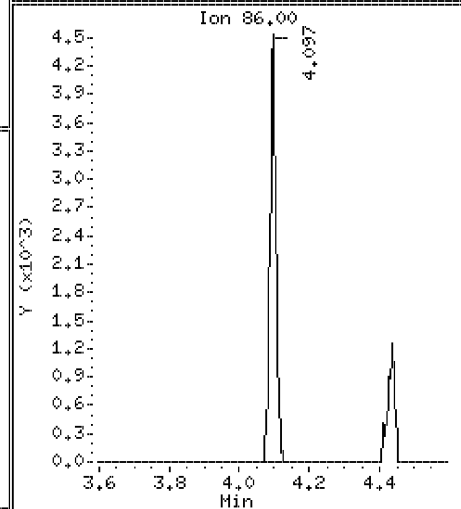
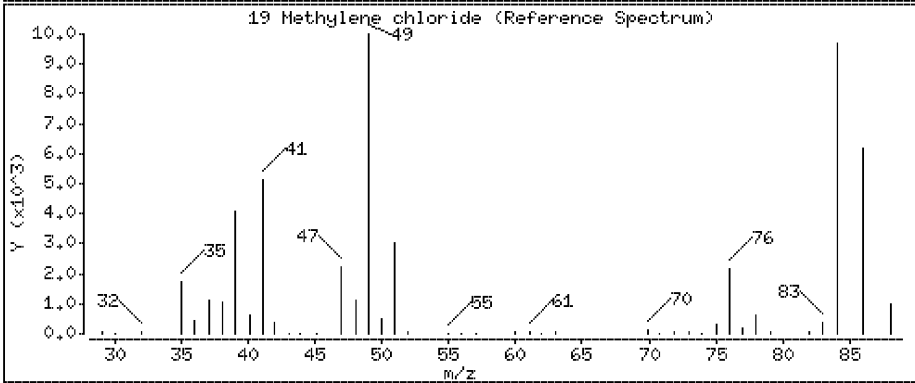
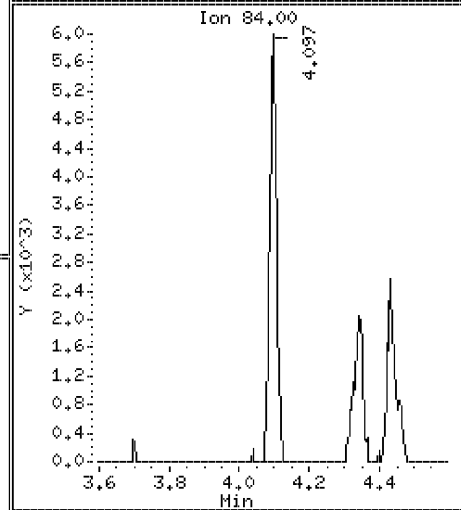
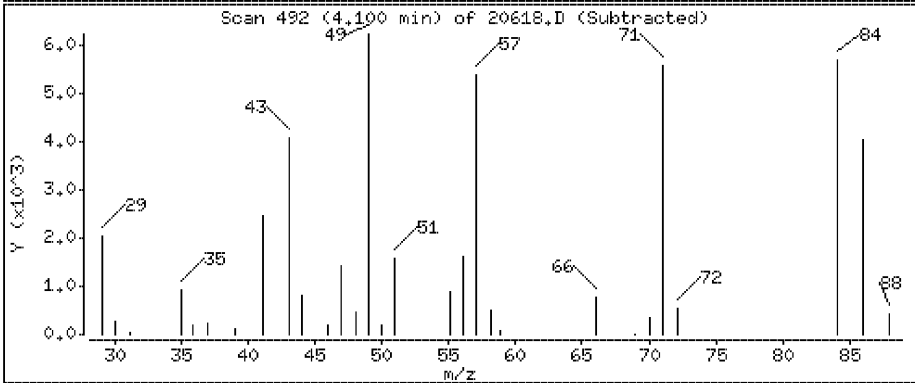
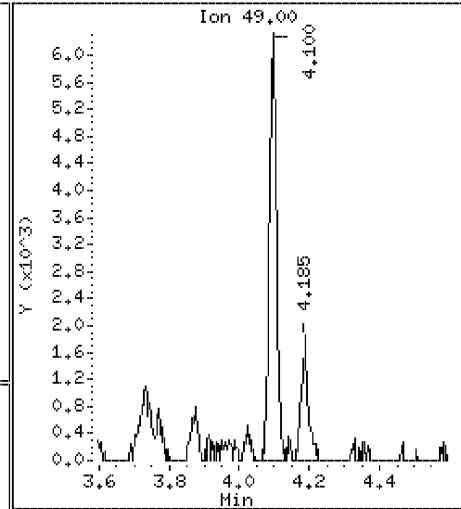
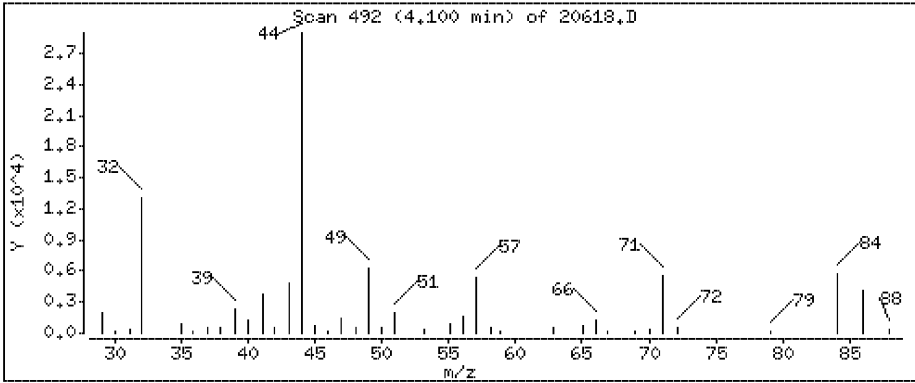
Column phase: J&W DB-5

Column diameter: 0.32

17 Tert Butyl Alcohol

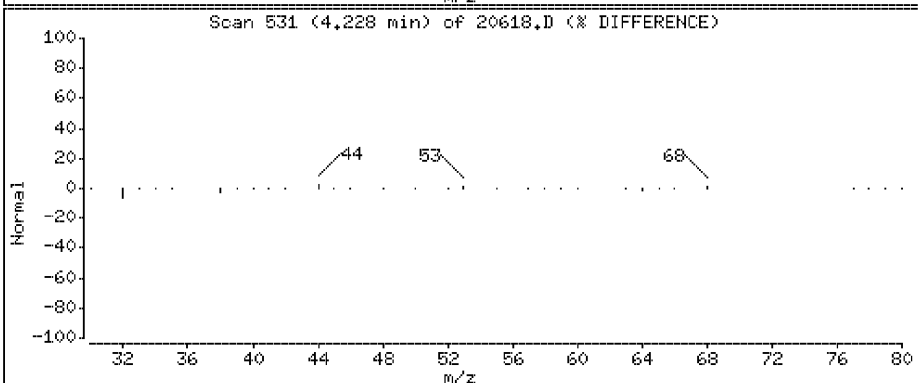
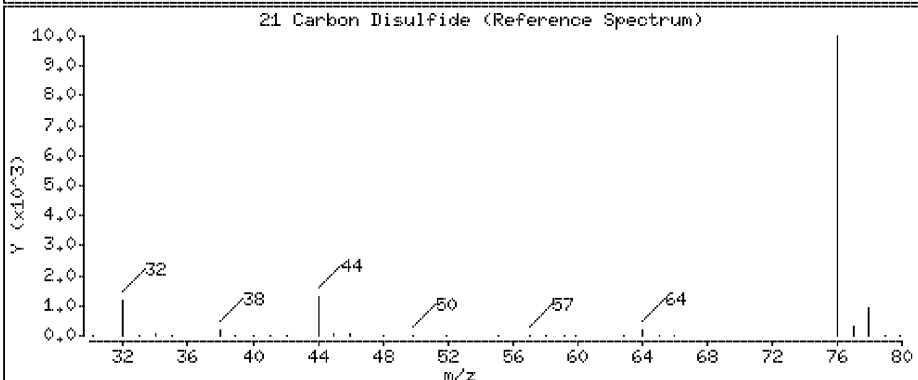
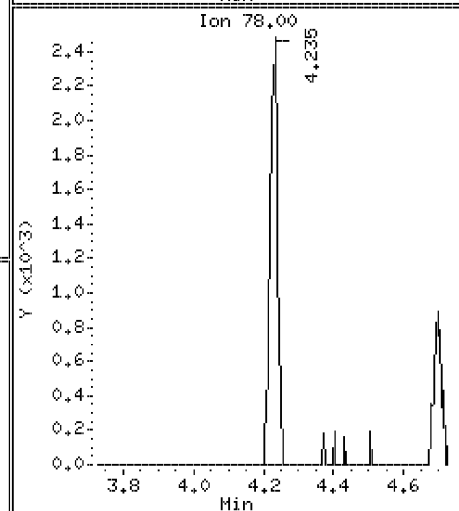
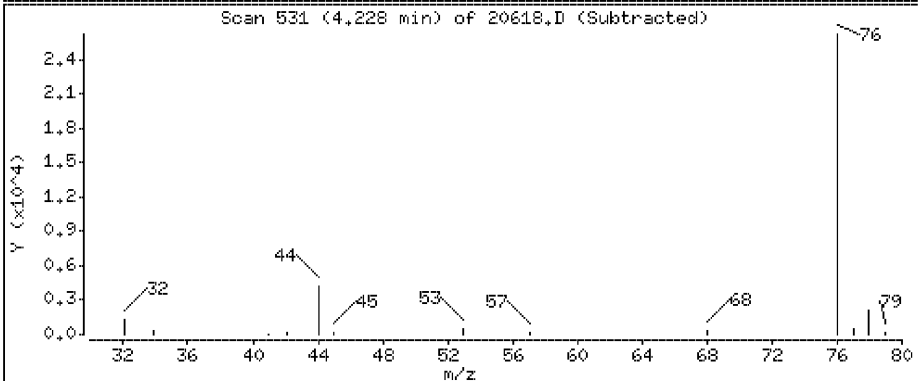
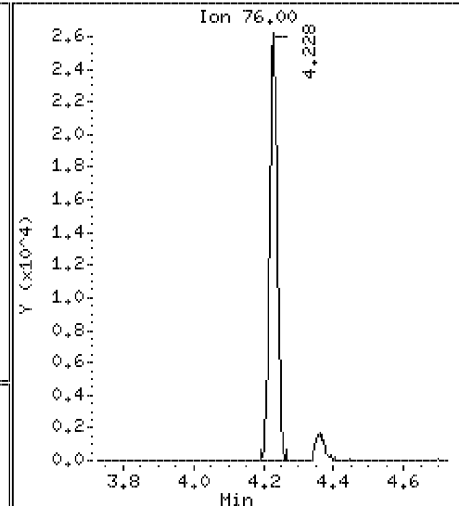
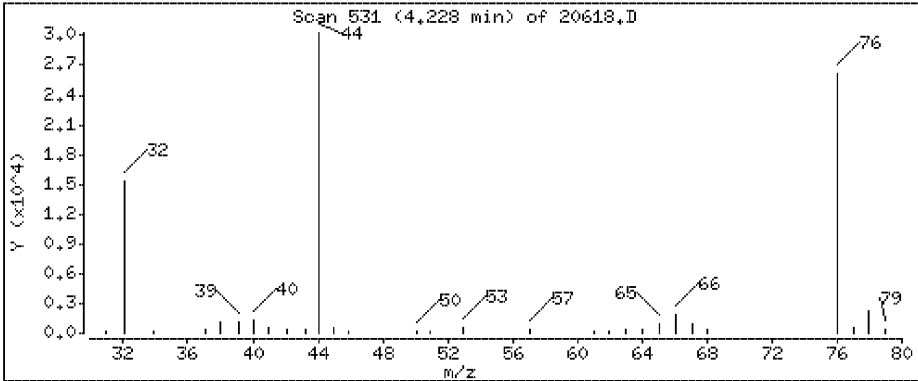
Concentration: 1.92 ppbv





21 Carbon Disulfide

Concentration: 0,676 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20618.D

Date : 25-JUL-2013 21:26

Client ID:

Instrument: 10airD.i

Sample Info:

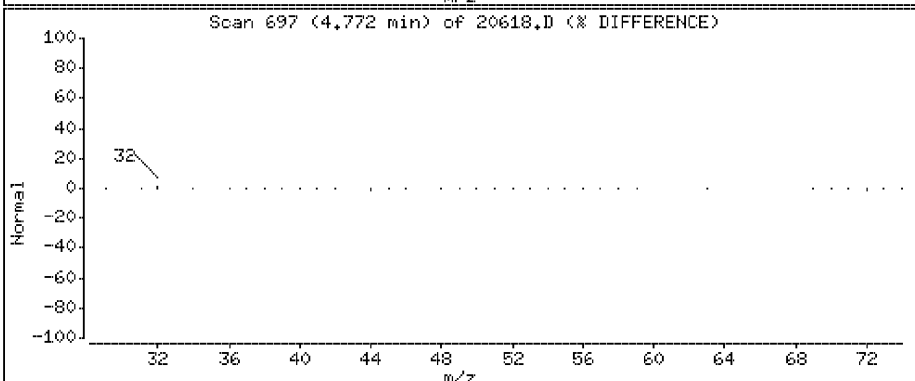
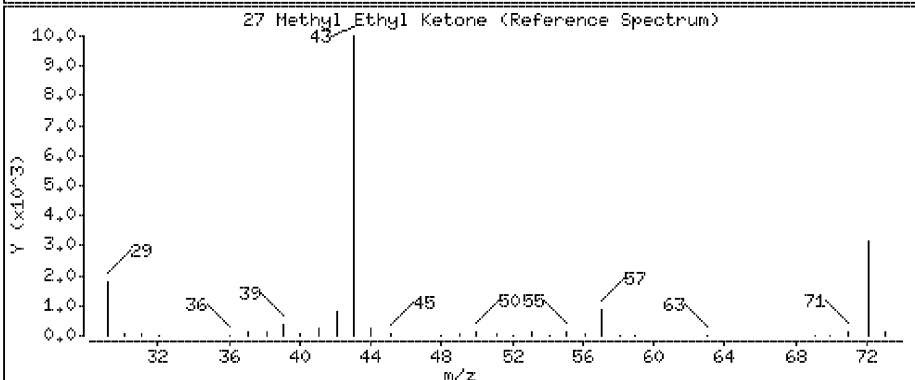
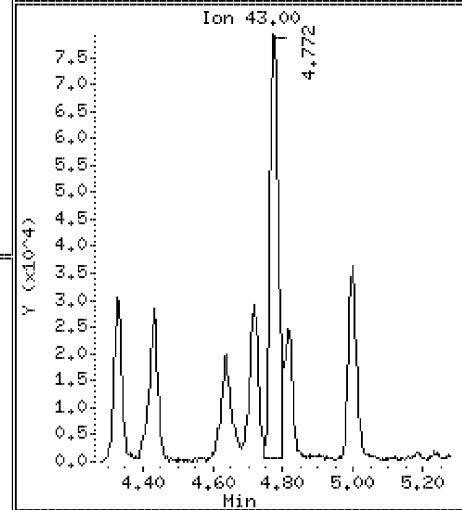
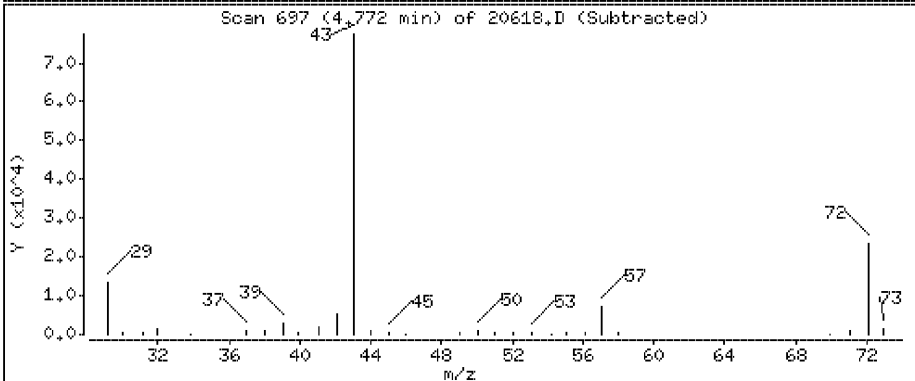
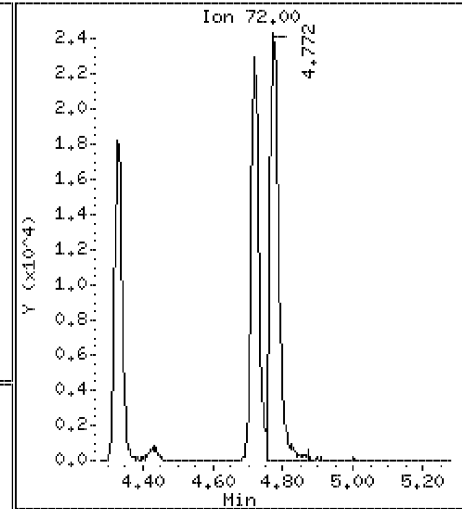
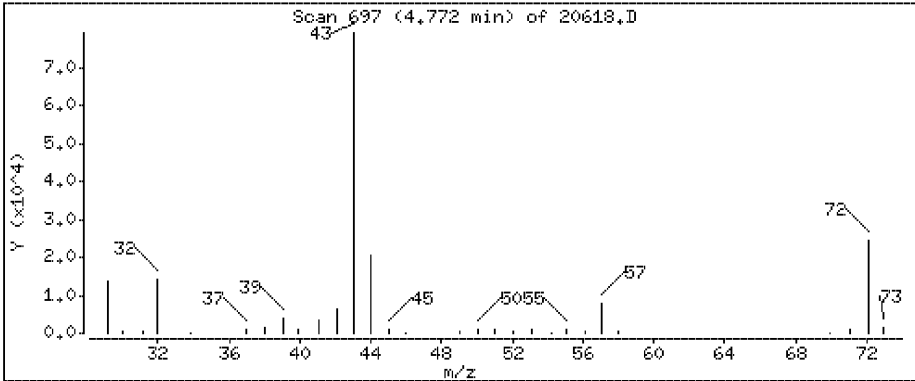
Operator: DR1

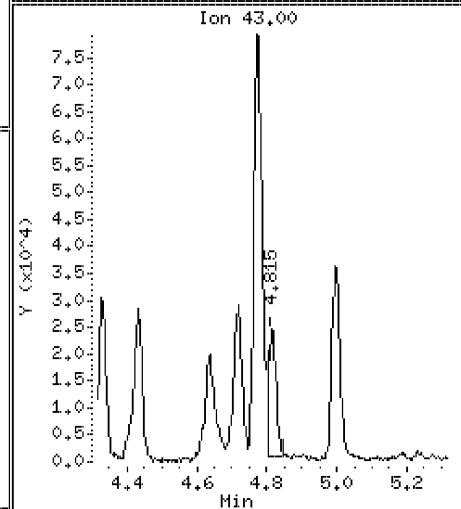
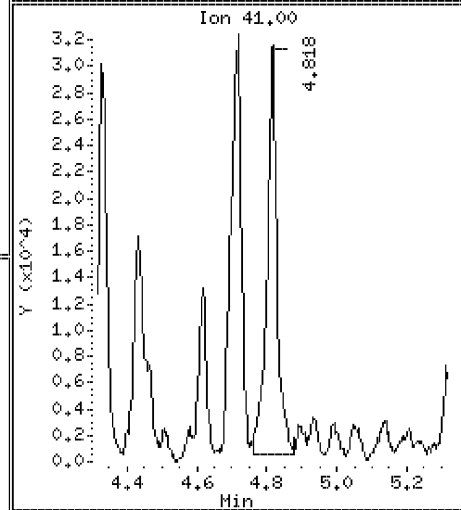
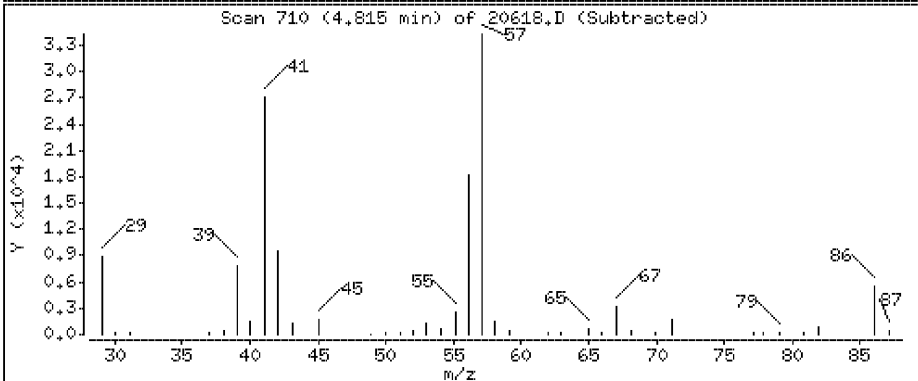
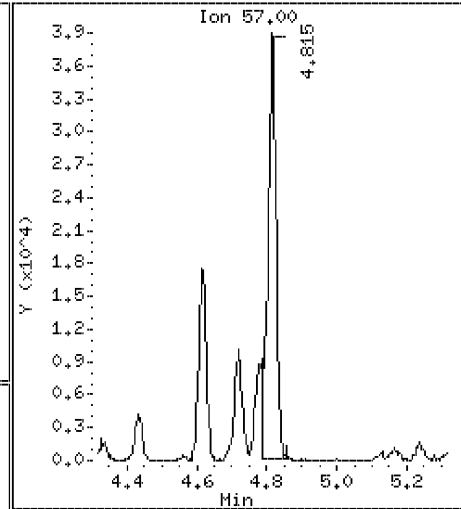
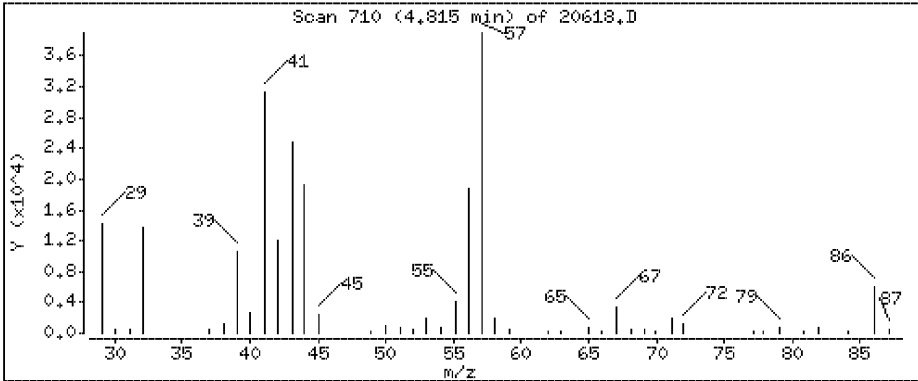
Column phase: J&W DB-5

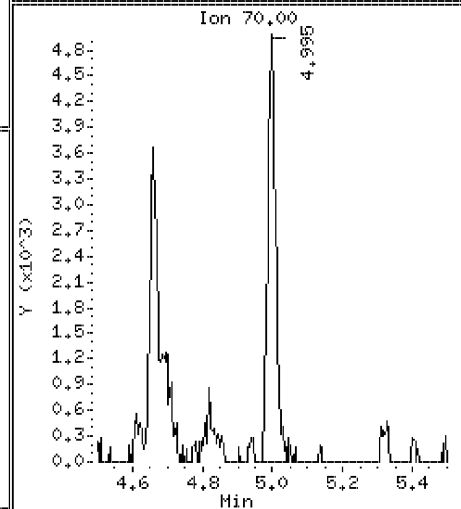
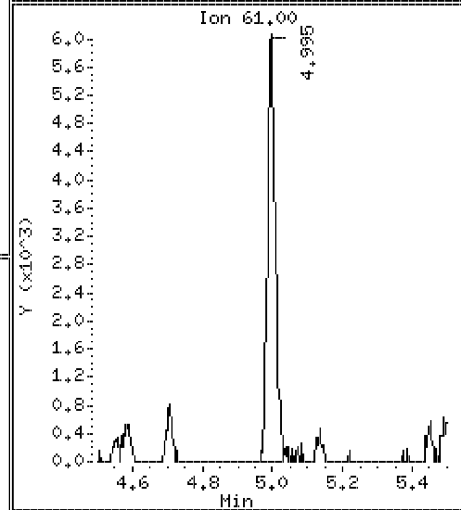
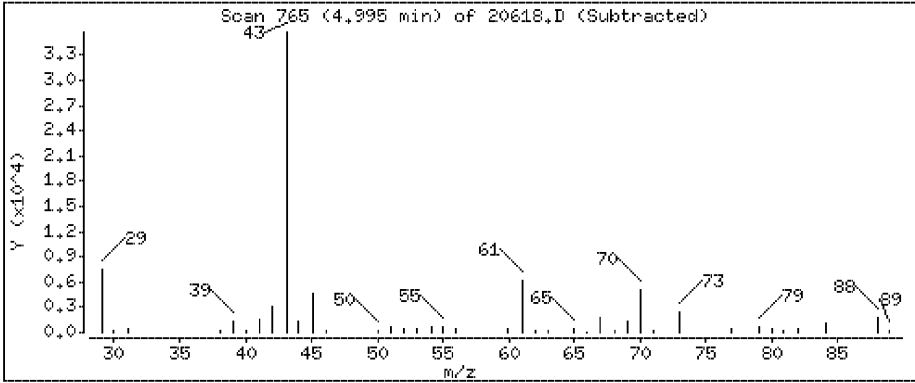
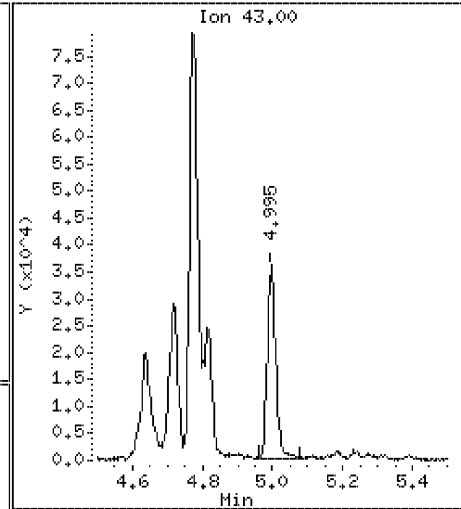
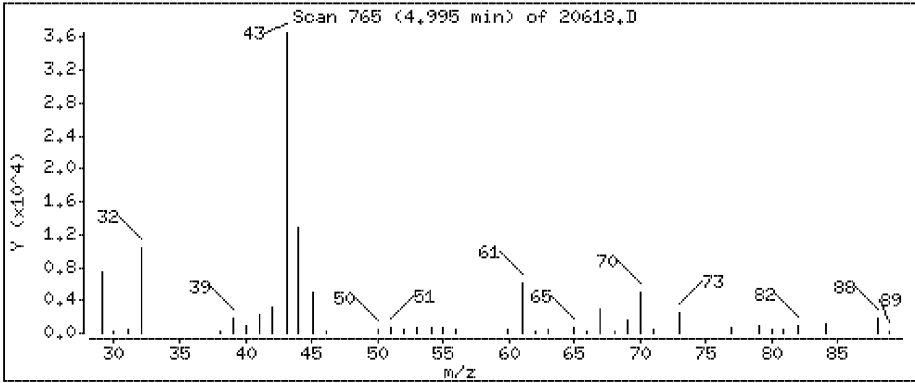
Column diameter: 0.32

27 Methyl Ethyl Ketone

Concentration: 5.15 ppbv

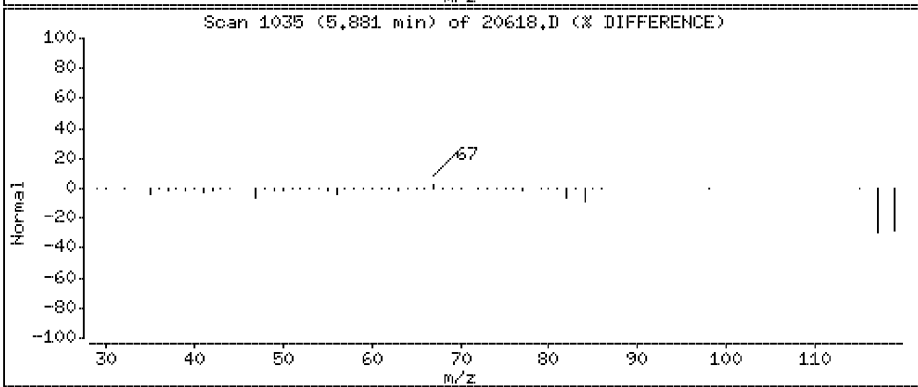
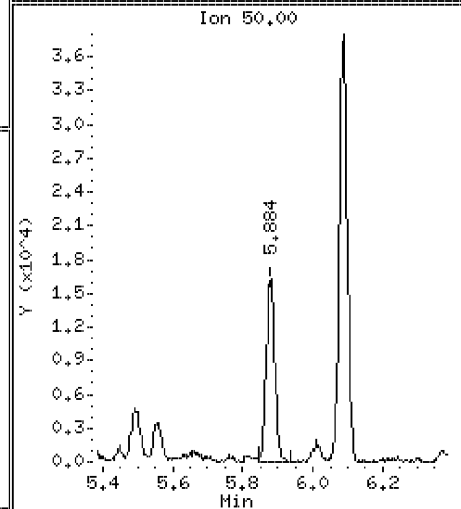
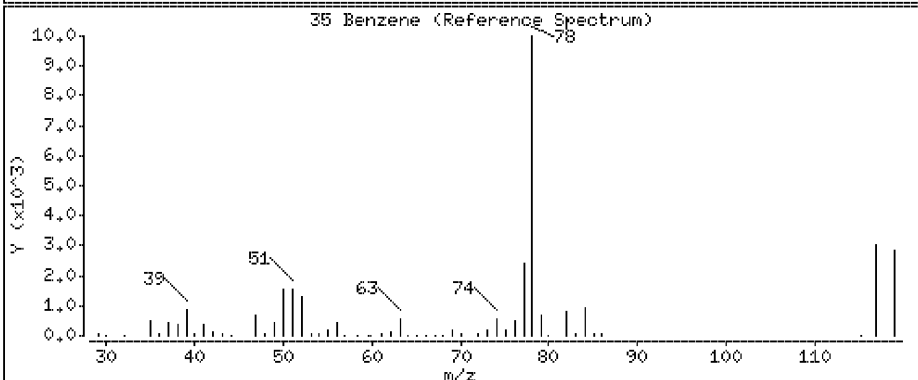
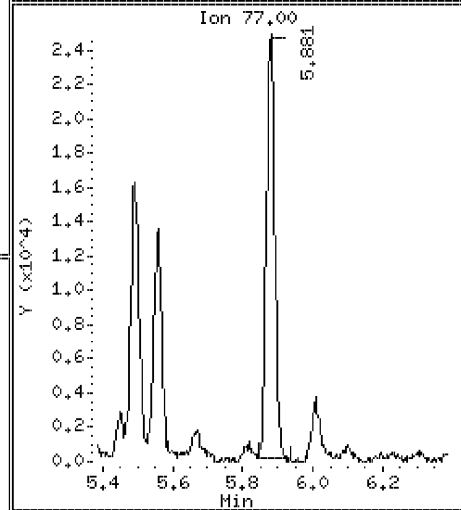
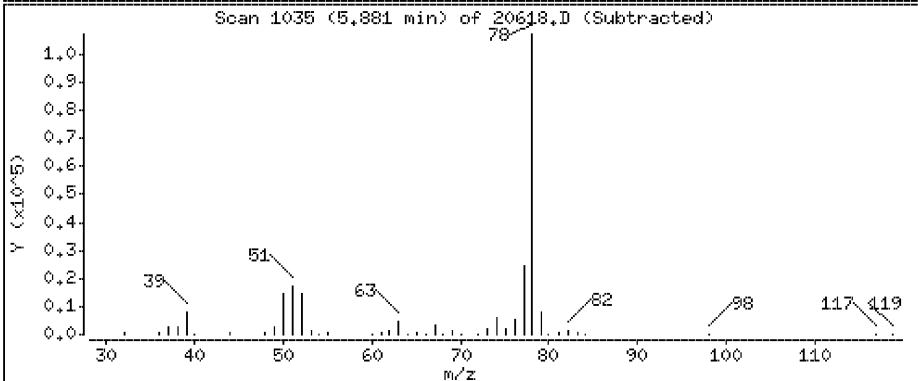
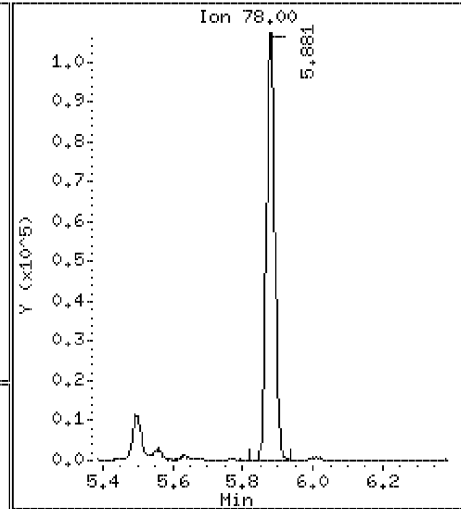
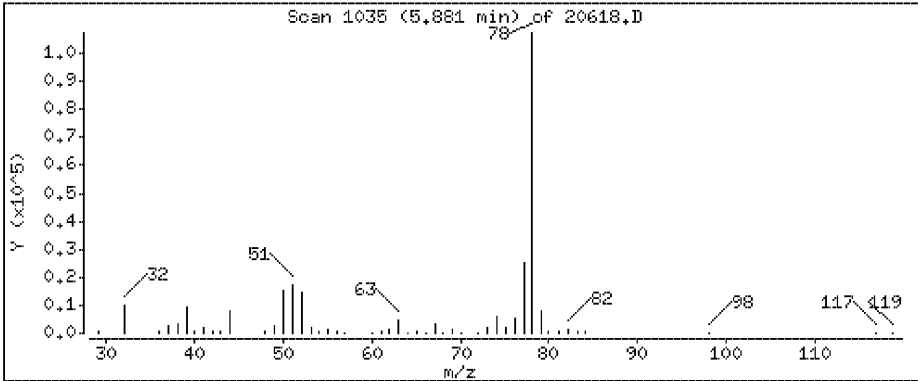


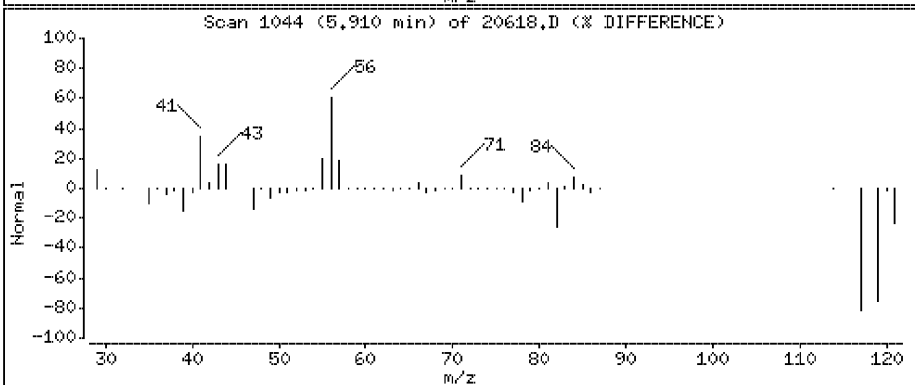
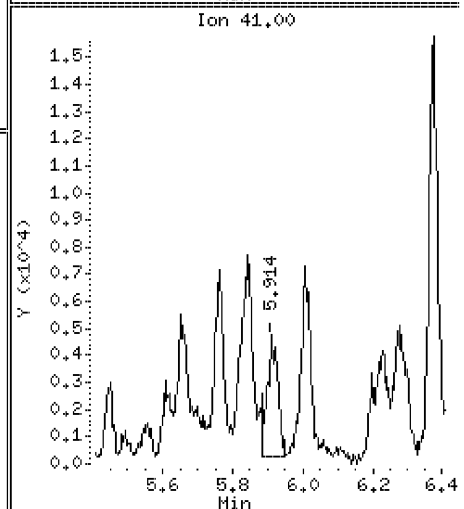
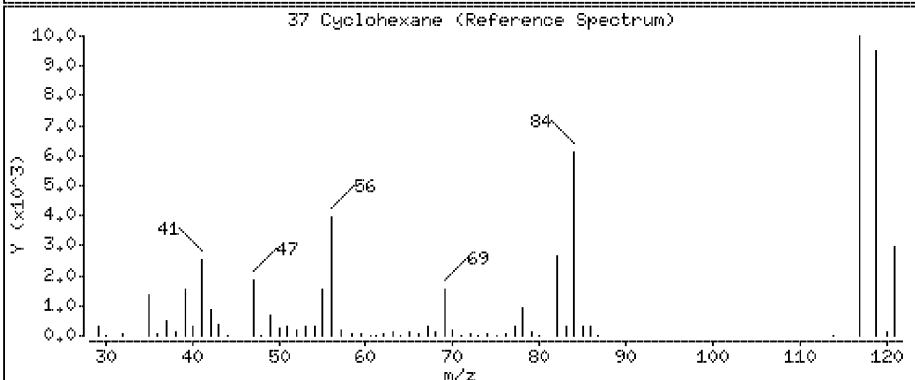
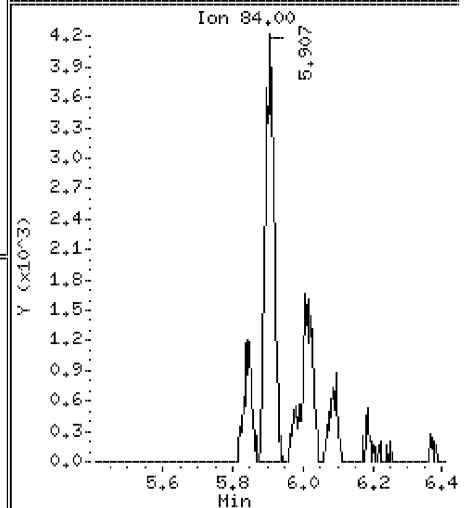
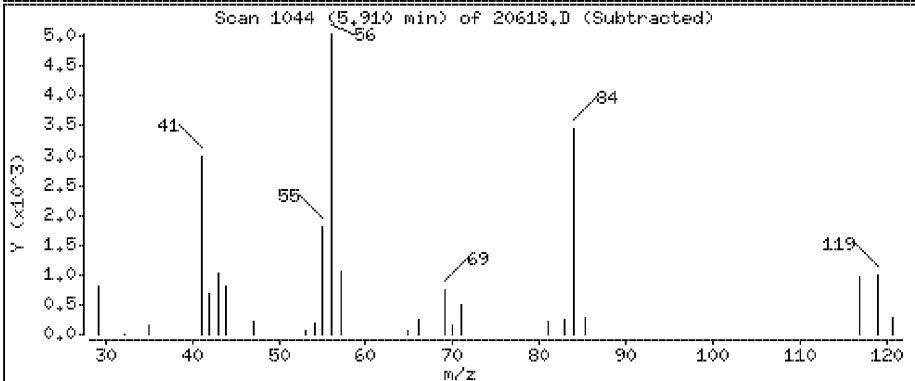
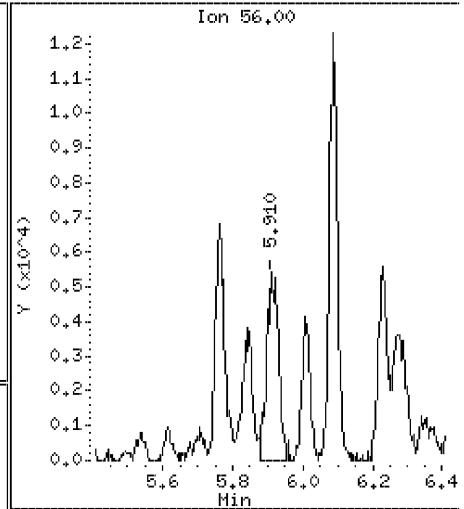
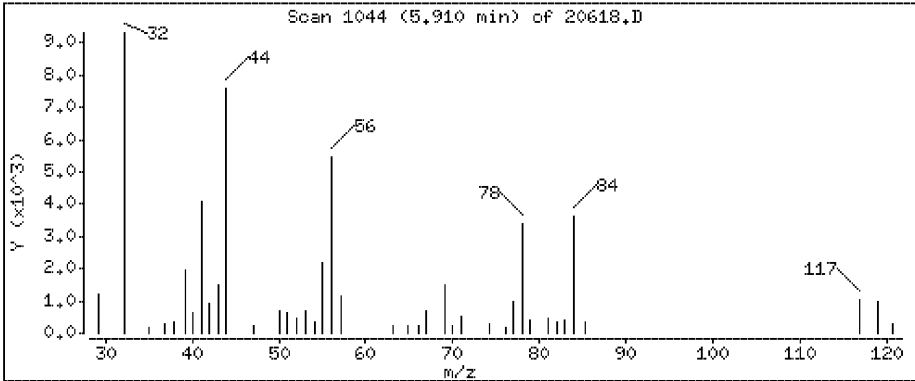


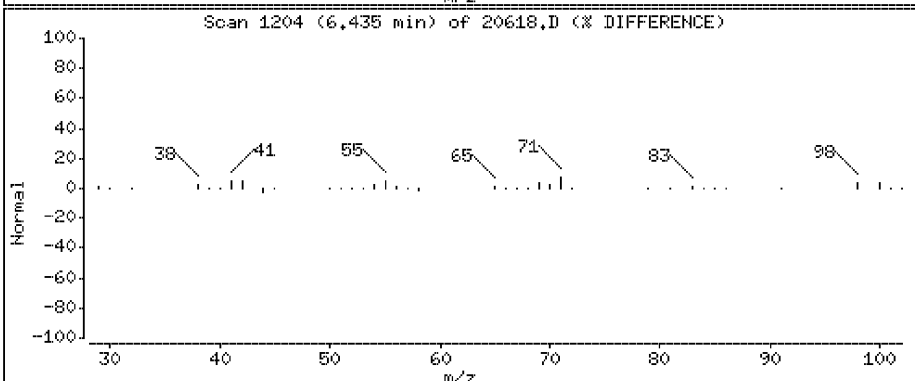
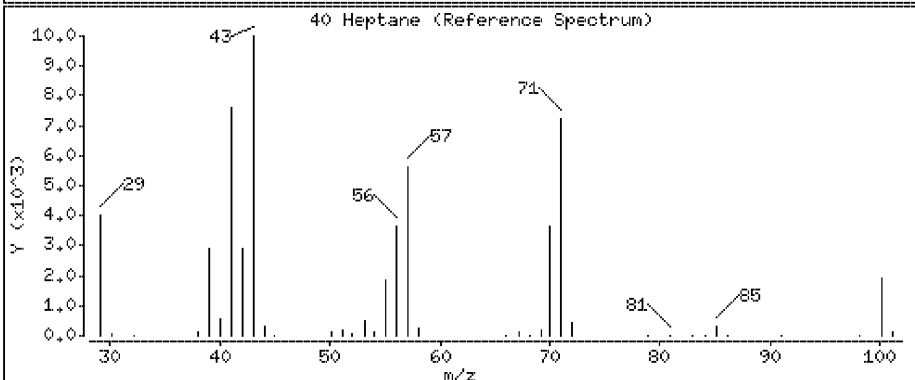
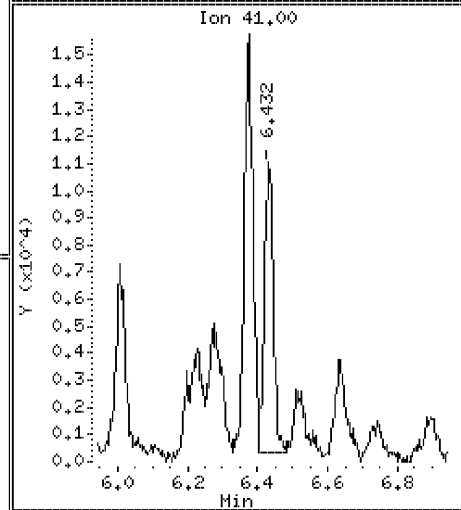
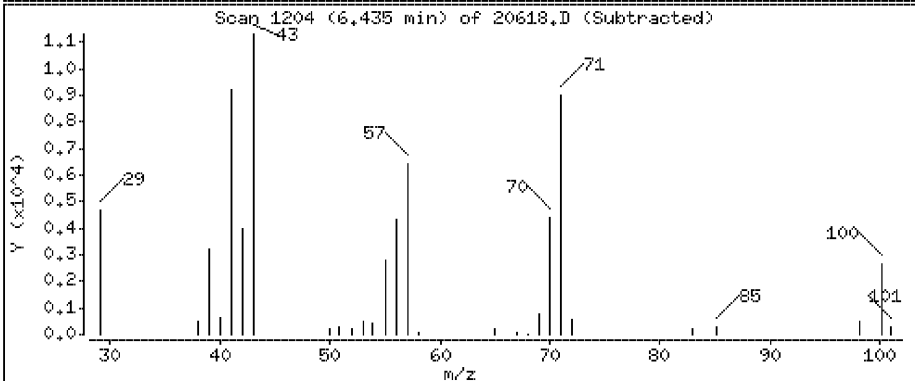
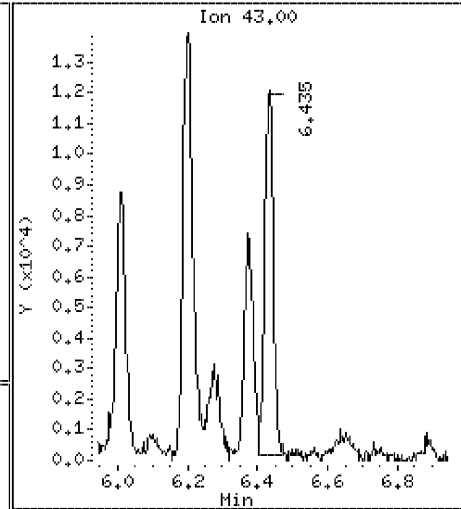
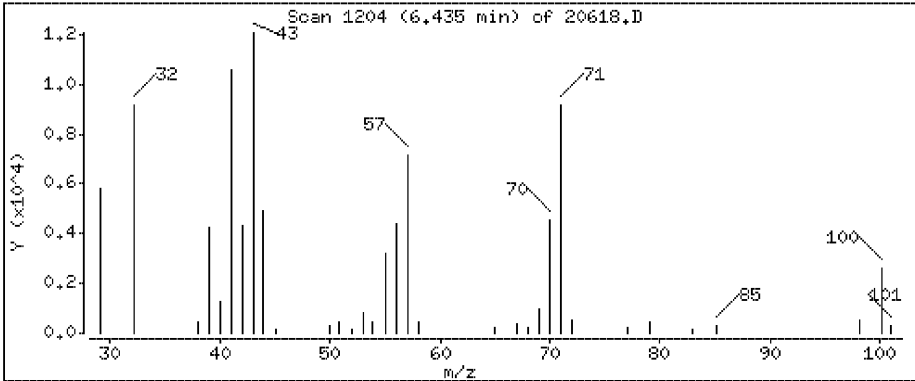


35 Benzene

Concentration: 4.06 ppbv







Data File: \\192.168.10.12\chem\10airD,1\072513,b\20618.D

Date : 25-JUL-2013 21:26

Client ID:

Instrument: 10airD.i

Sample Info:

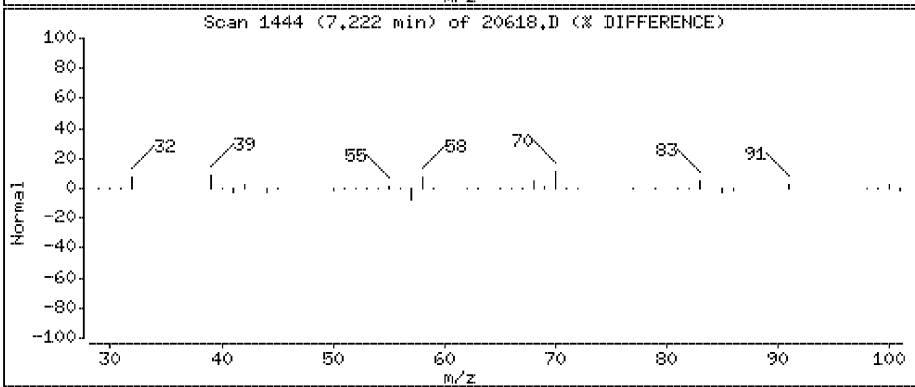
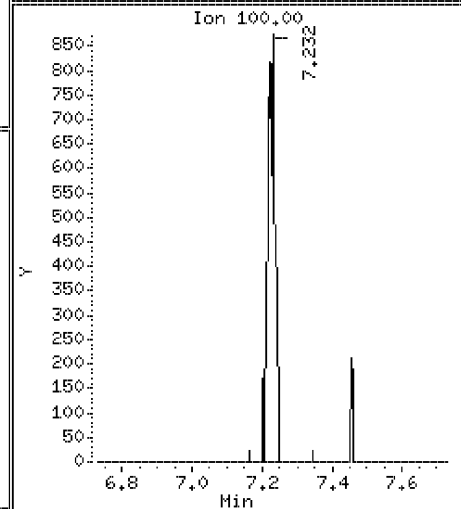
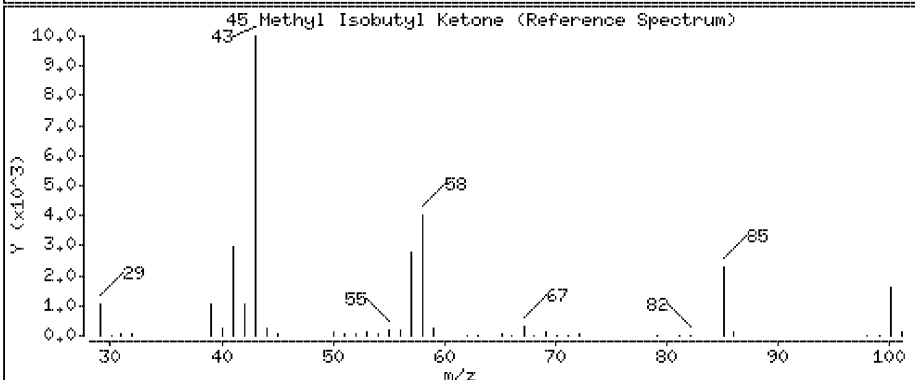
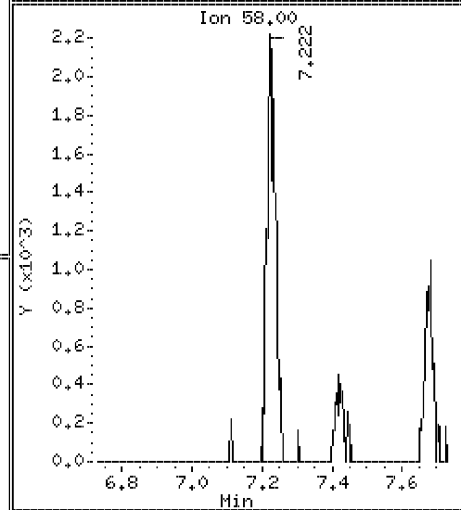
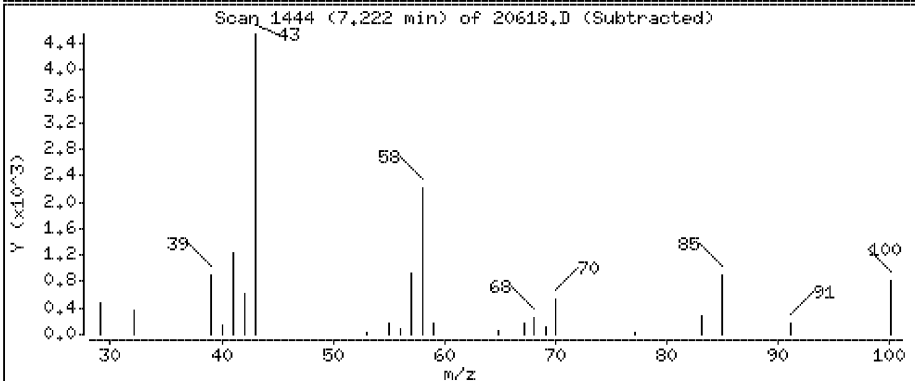
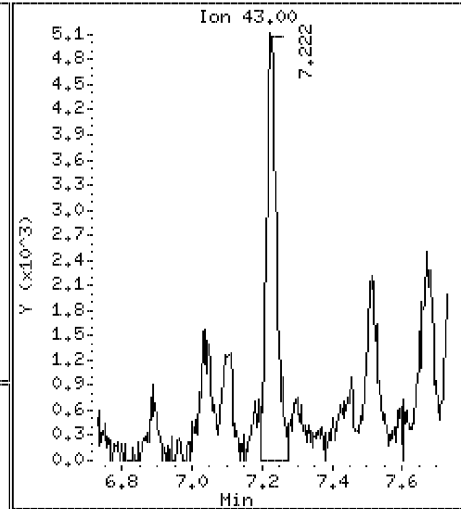
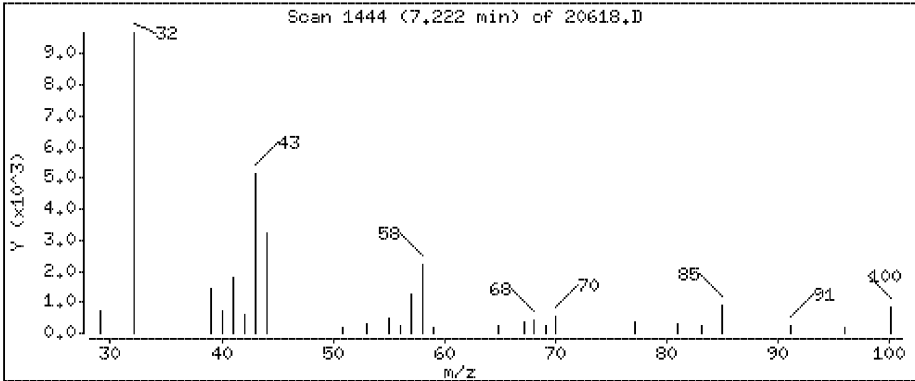
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

45 Methyl Isobutyl Ketone

Concentration: 0.939 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20618.D

Date : 25-JUL-2013 21:26

Client ID:

Instrument: 10airD.i

Sample Info:

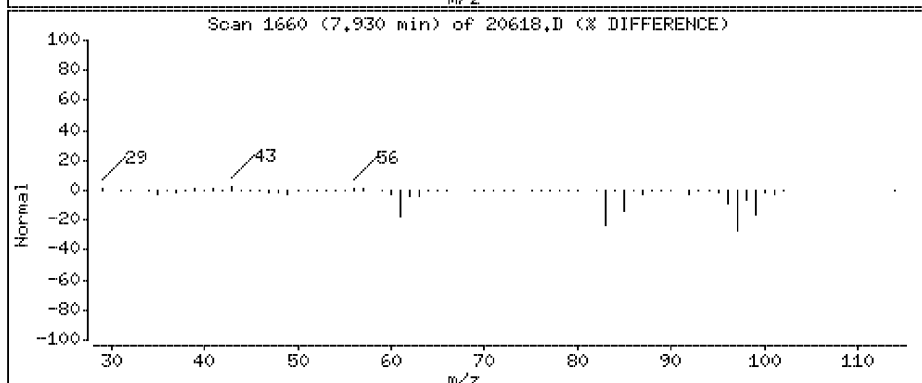
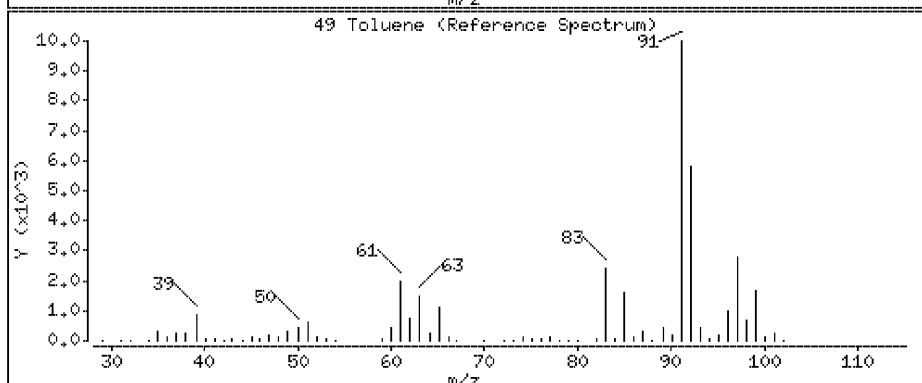
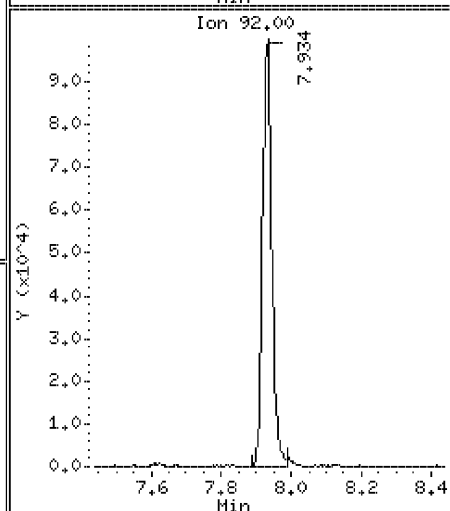
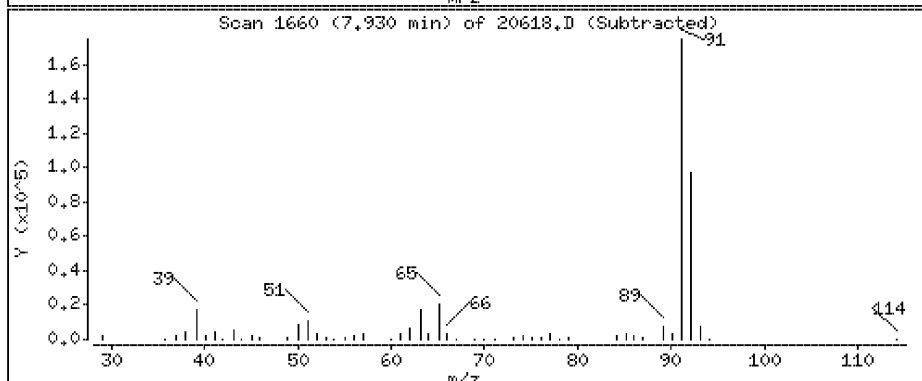
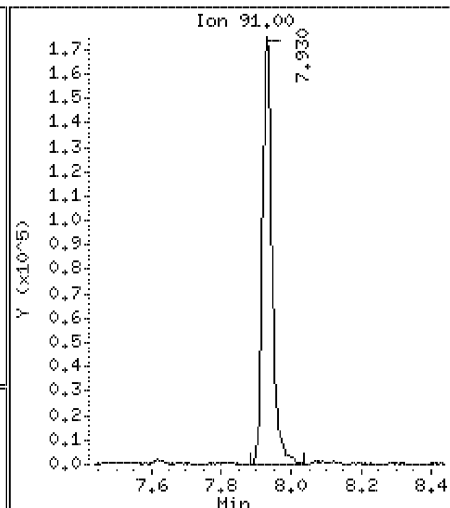
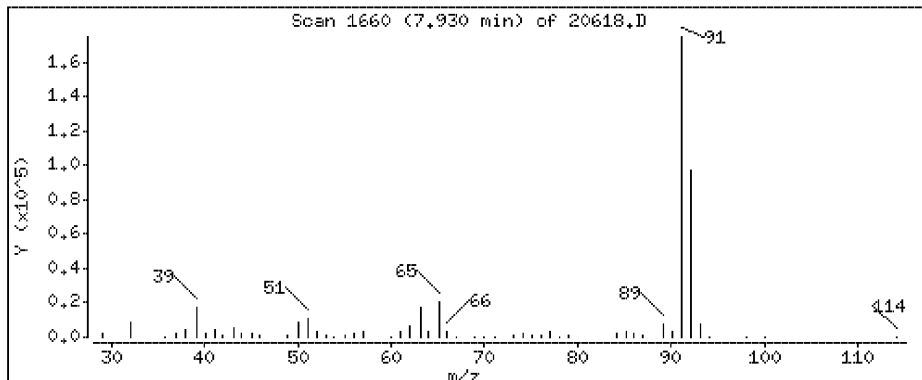
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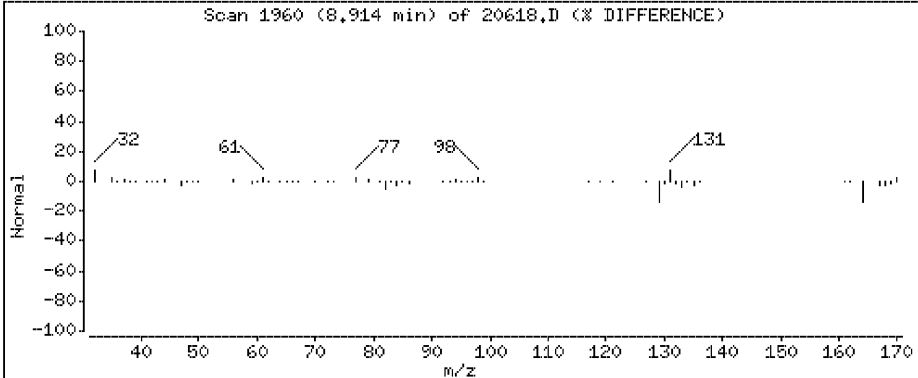
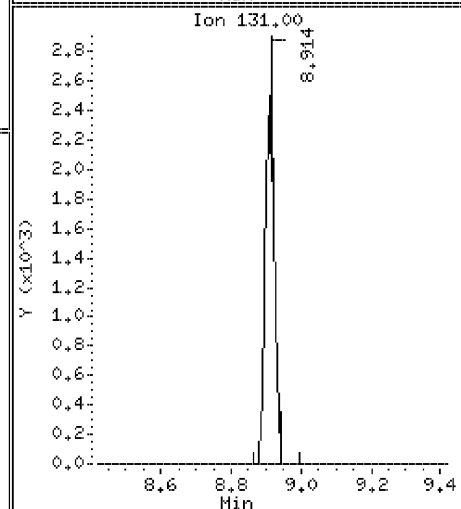
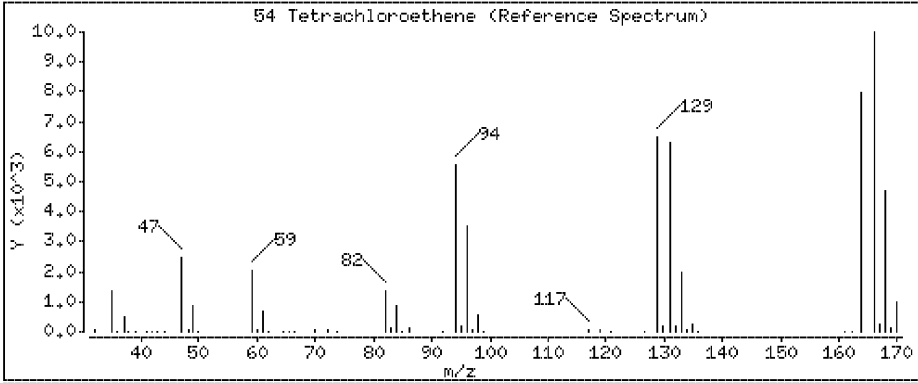
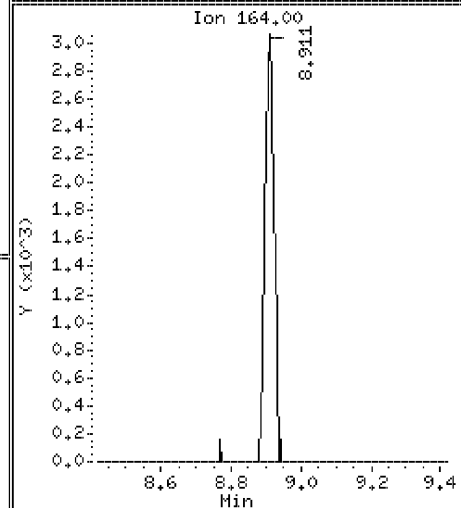
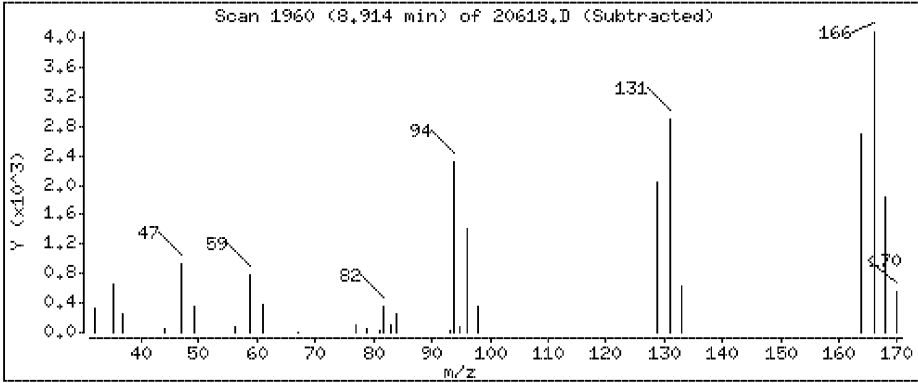
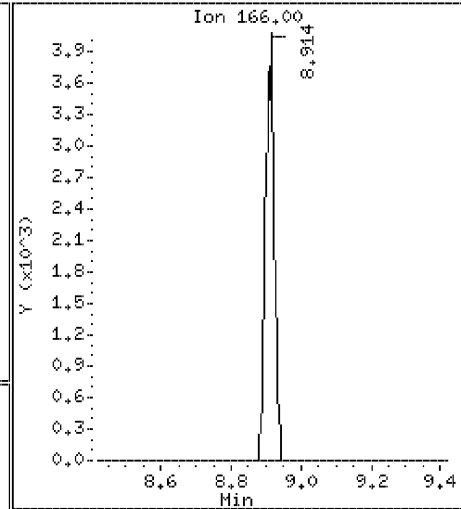
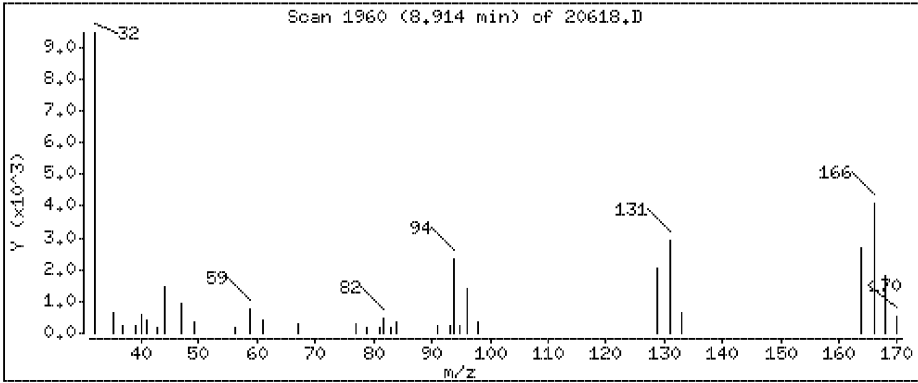
Column phase: J&W DB-5

Column diameter: 0.32

49 Toluene

Concentration: 5.66 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20618.D

Date : 25-JUL-2013 21:26

Client ID:

Instrument: 10airD.i

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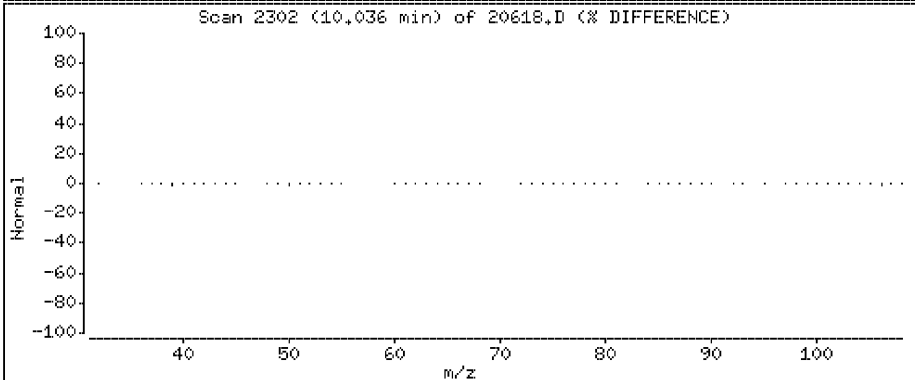
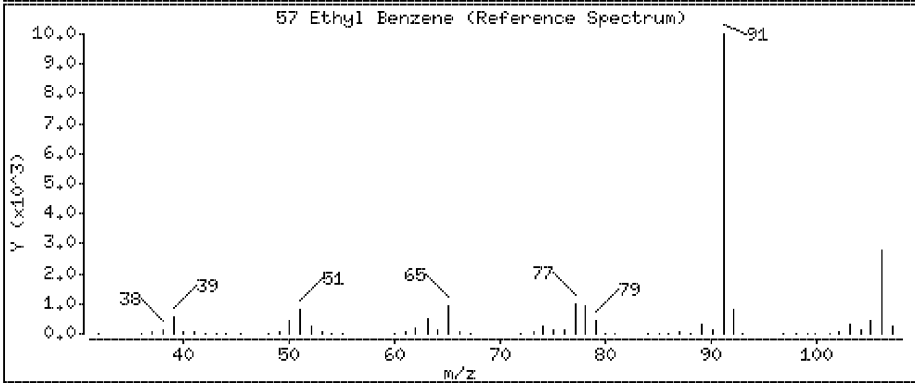
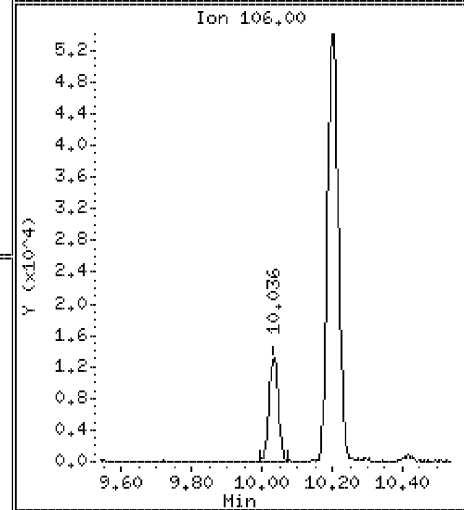
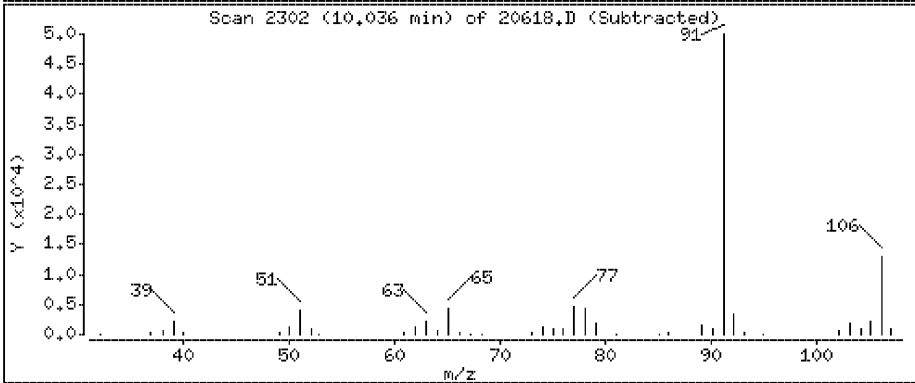
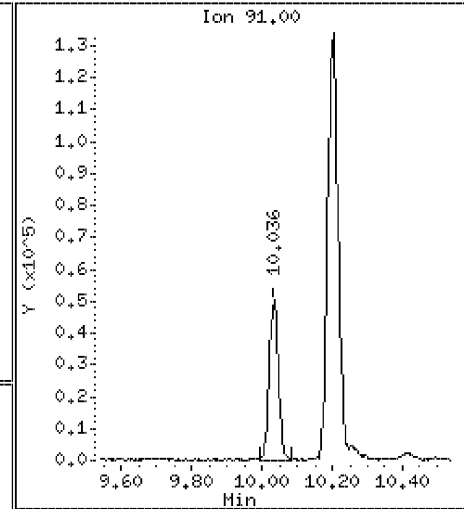
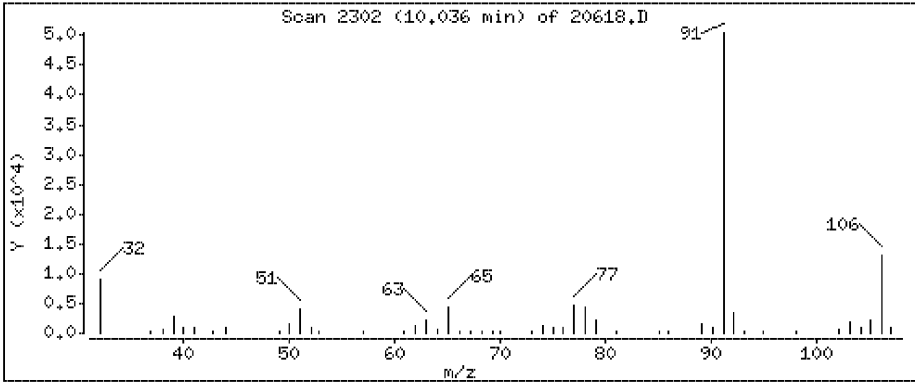
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

57 Ethyl Benzene

Concentration: 1.59 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20618.D

Date : 25-JUL-2013 21:26

Client ID:

Instrument: 10airD.i

Sample Info:

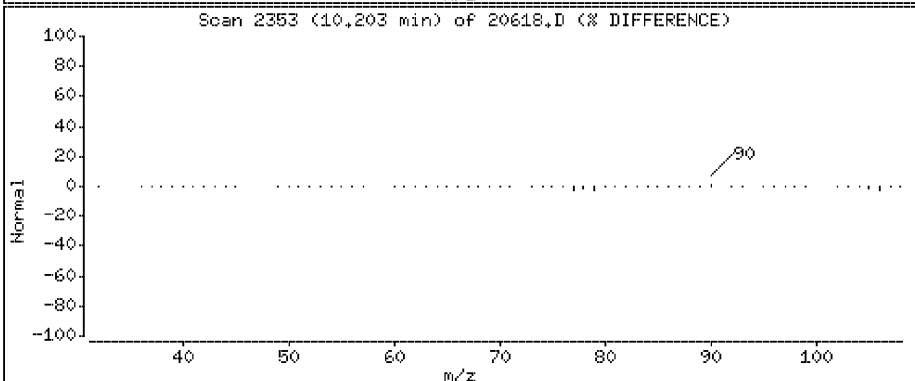
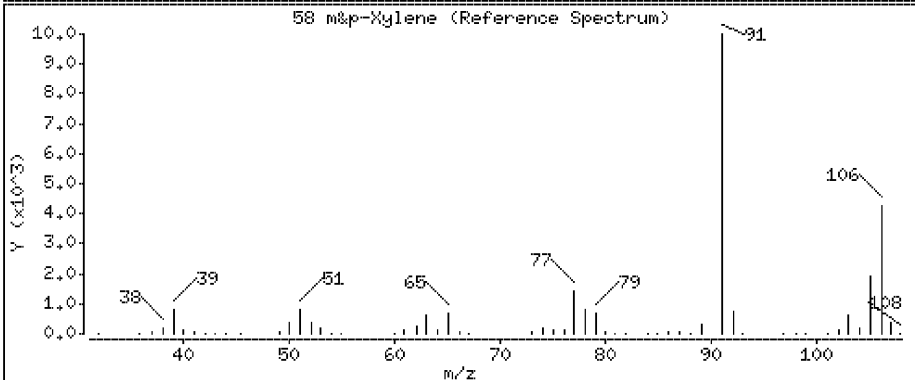
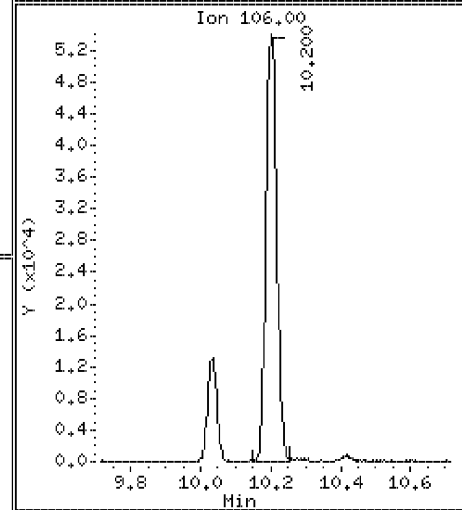
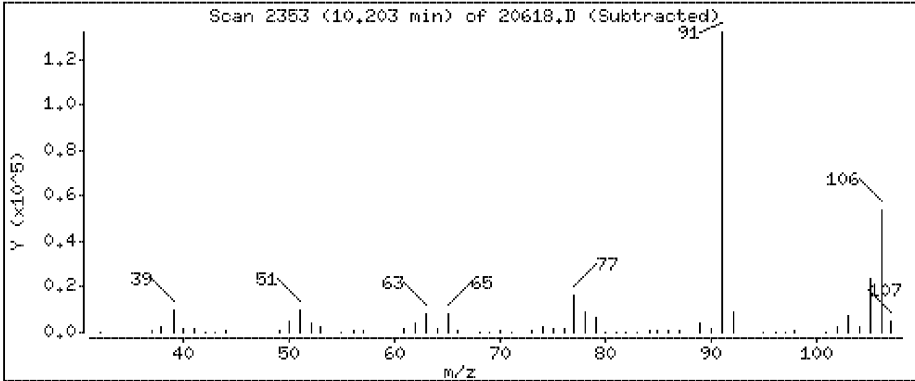
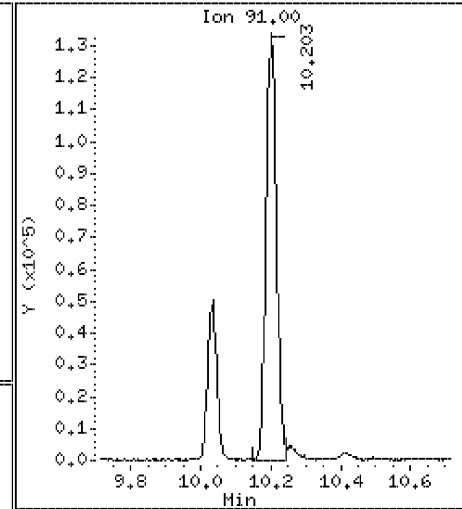
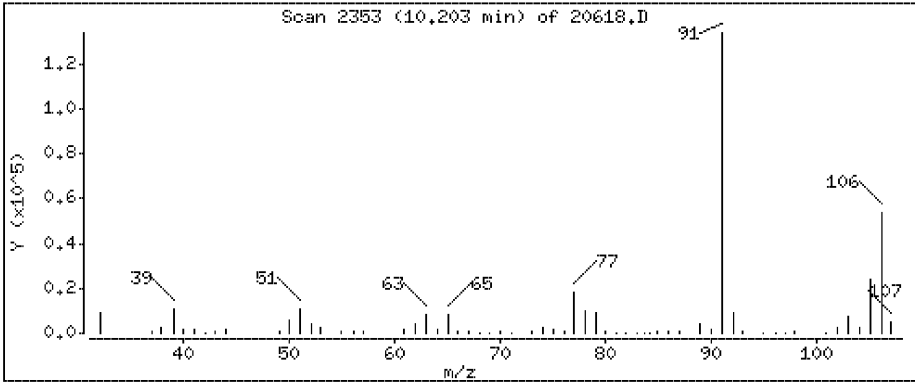
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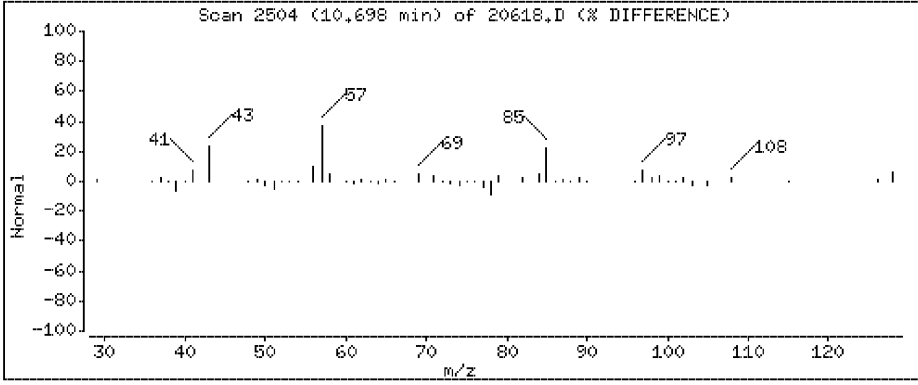
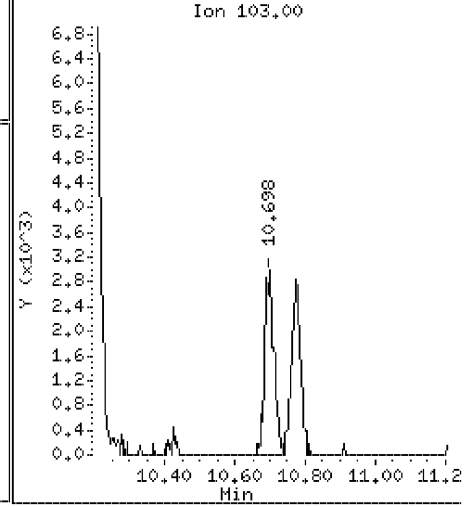
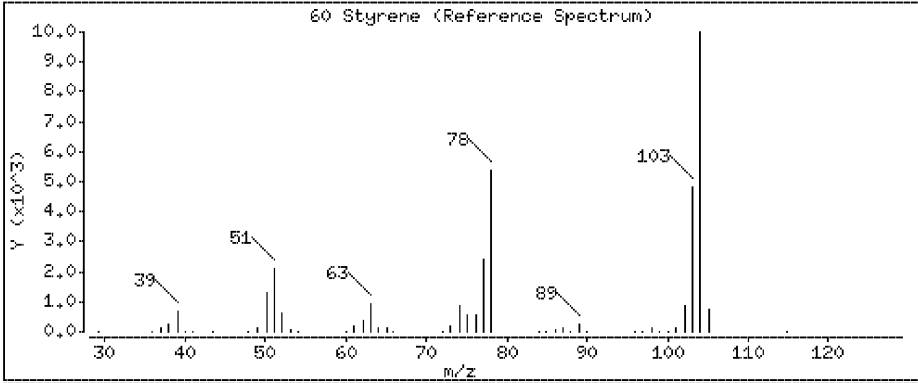
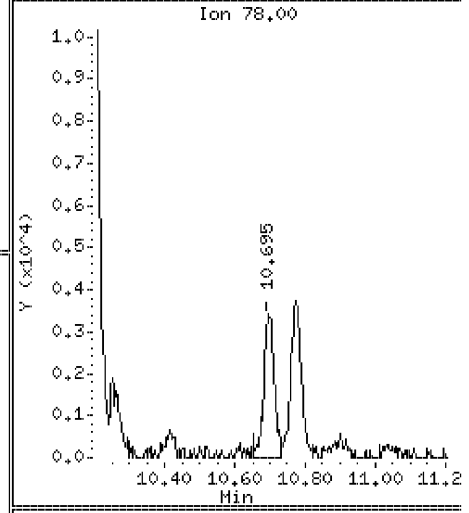
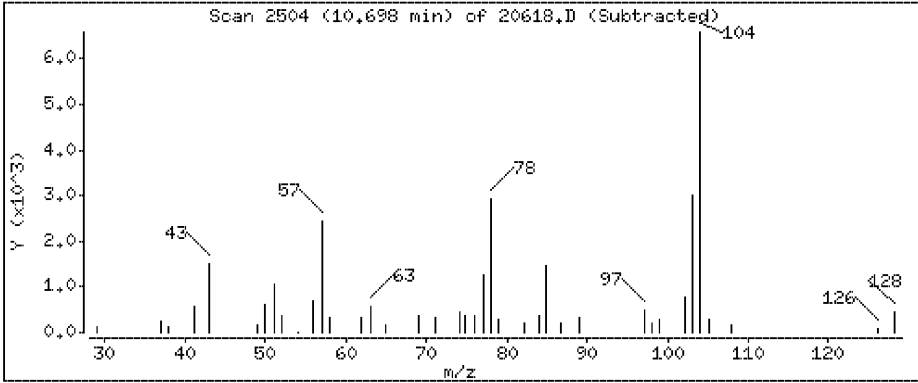
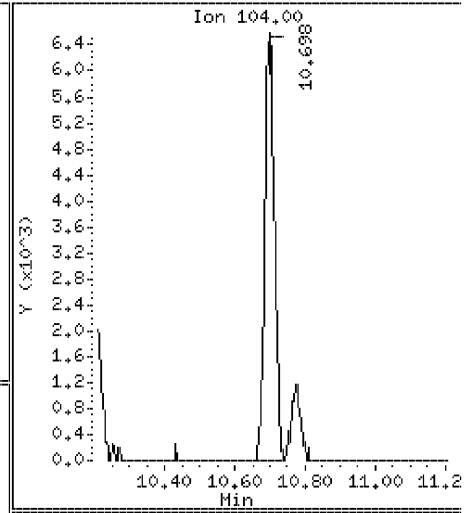
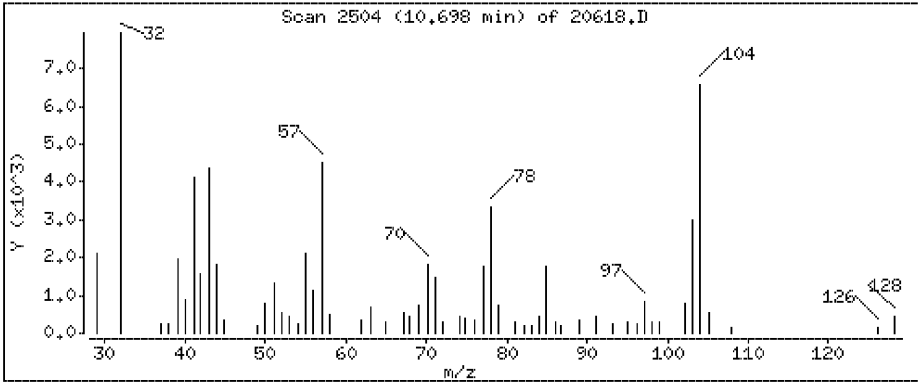
Column phase: J&W DB-5

Column diameter: 0.32

58 m&p-Xylene

Concentration: 4.78 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20618.D

Date : 25-JUL-2013 21:26

Client ID:

Instrument: 10airD.i

Sample Info:

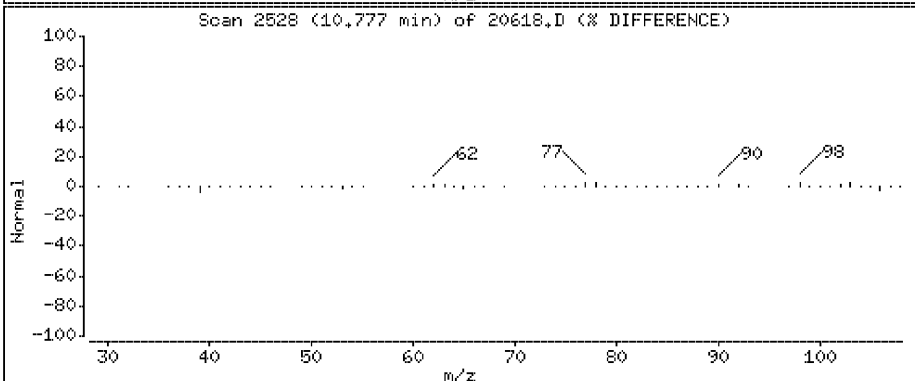
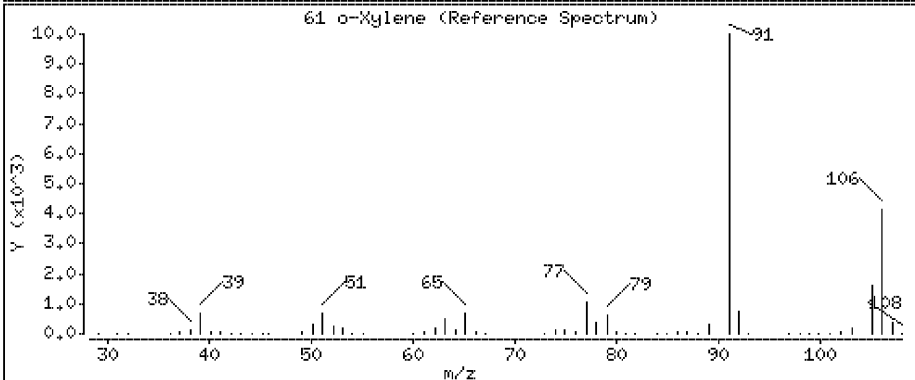
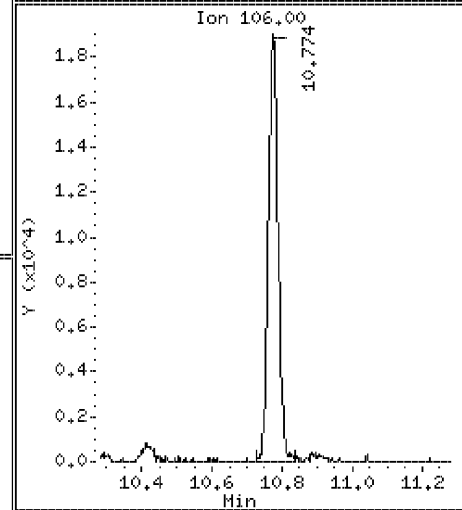
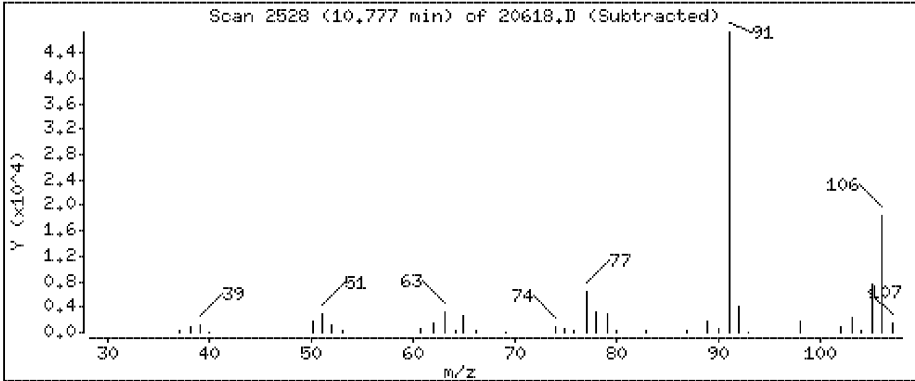
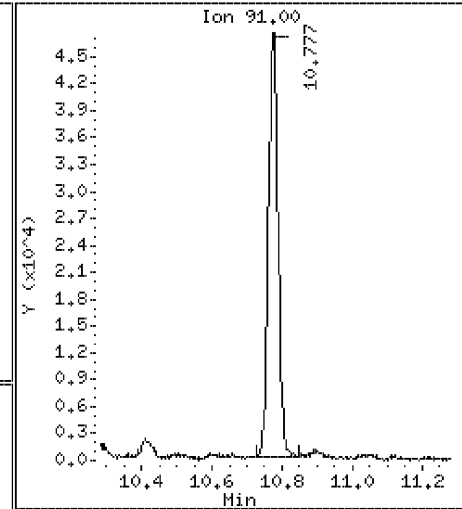
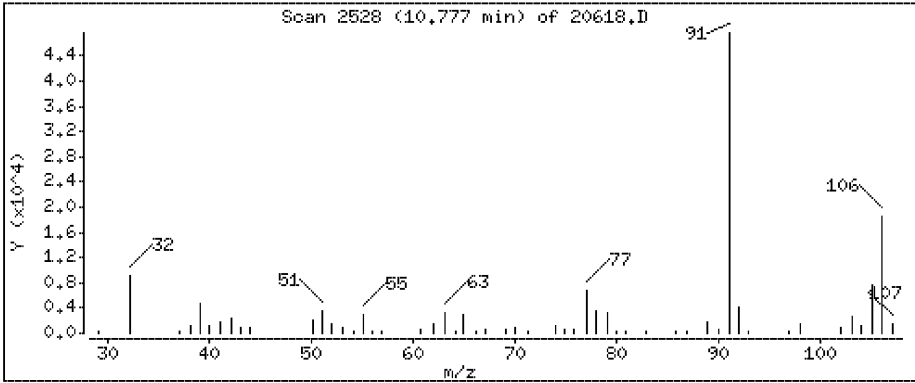
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

61 o-Xylene

Concentration: 1.67 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20618.D

Date : 25-JUL-2013 21:26

Client ID:

Instrument: 10airD.i

Sample Info:

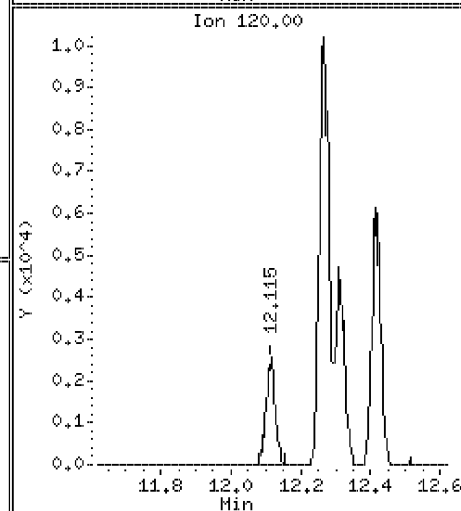
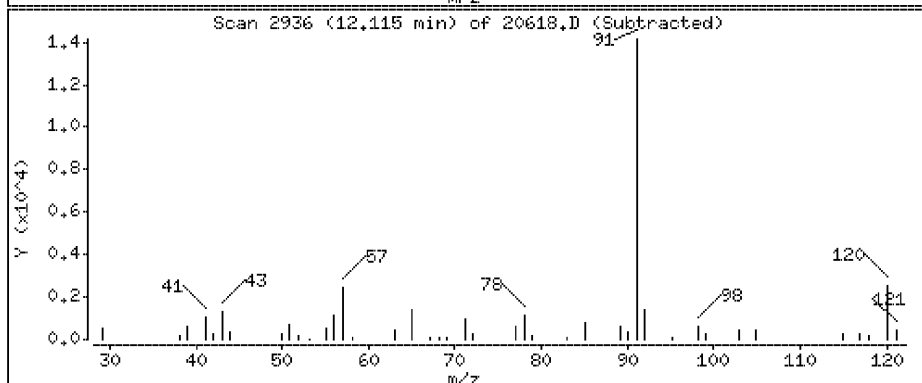
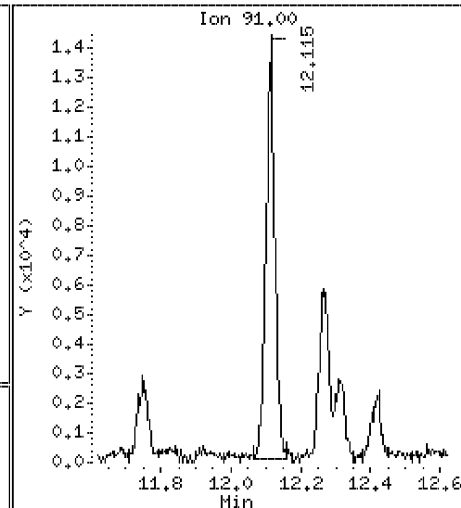
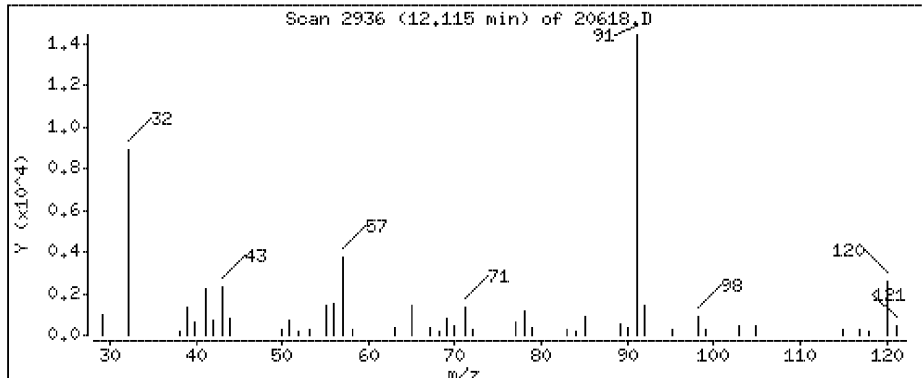
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

64 N-Propylbenzene

Concentration: 0.680 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20618.D

Date : 25-JUL-2013 21:26

Client ID:

Instrument: 10airD.i

Sample Info:

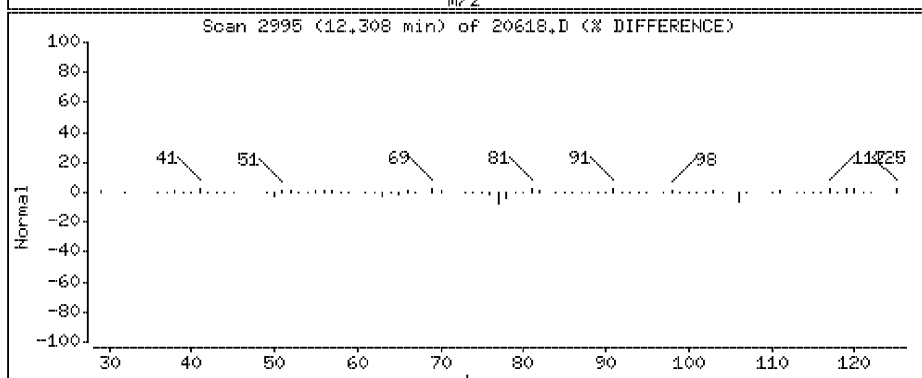
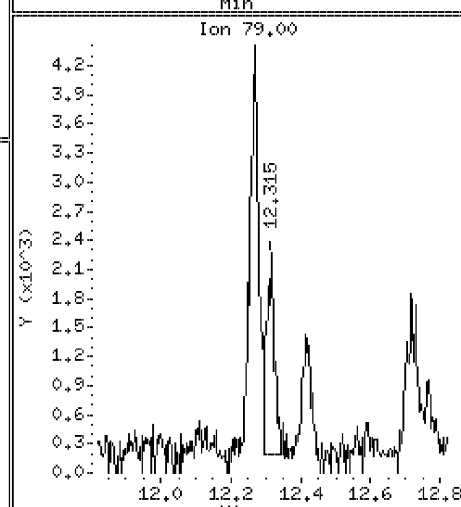
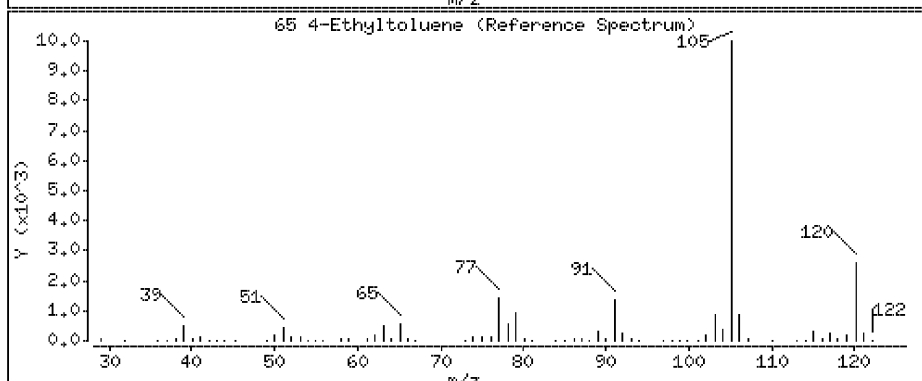
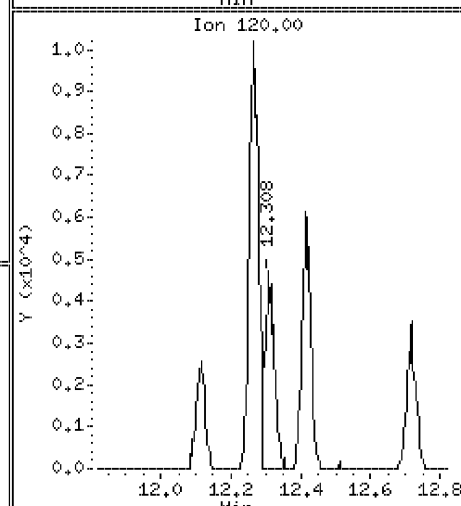
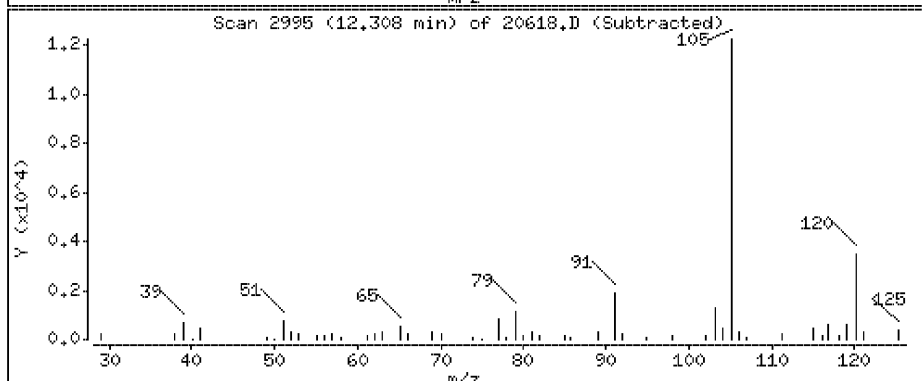
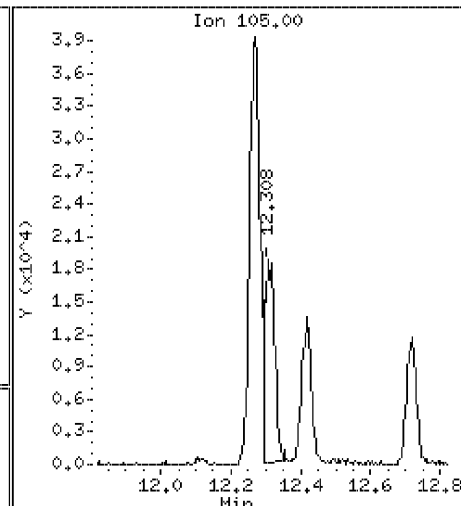
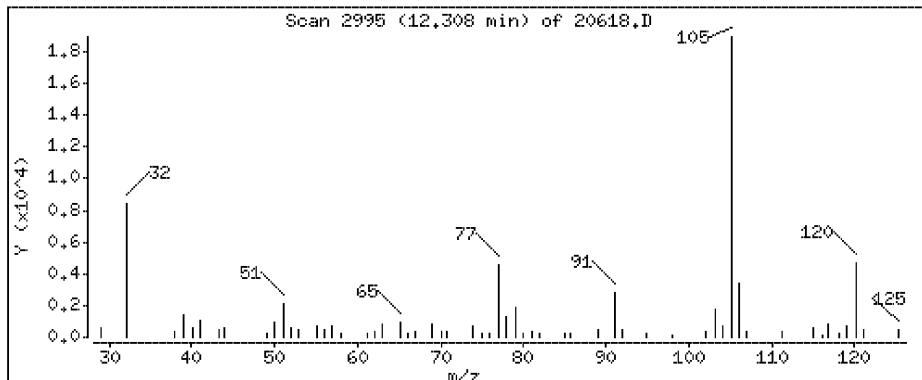
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

65 4-Ethyltoluene

Concentration: 0.916 ppbv



Data File: \\192.168.10.12\chem\10airD,i\072513,b\20618.D

Date : 25-JUL-2013 21:26

Client ID:

Instrument: 10airD.i

Sample Info:

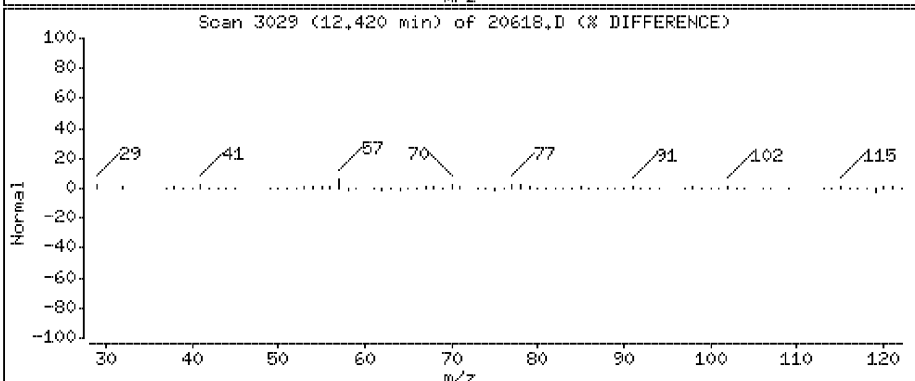
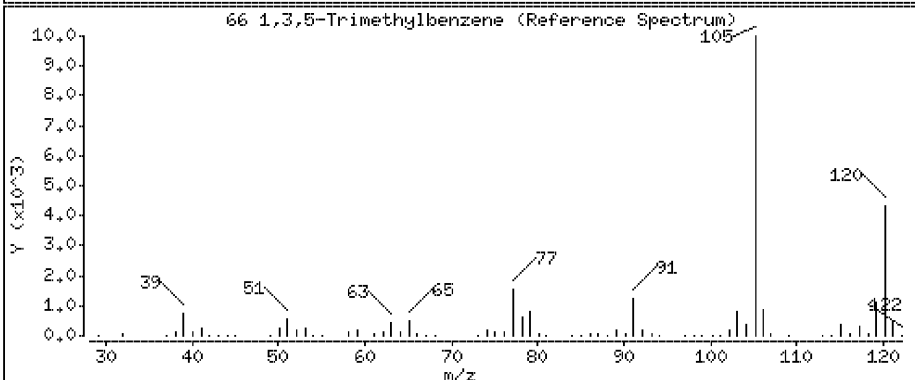
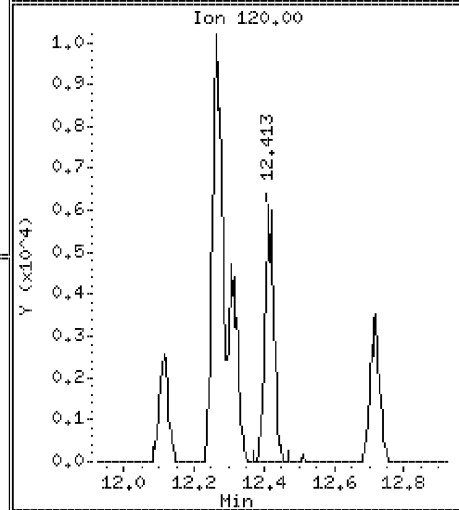
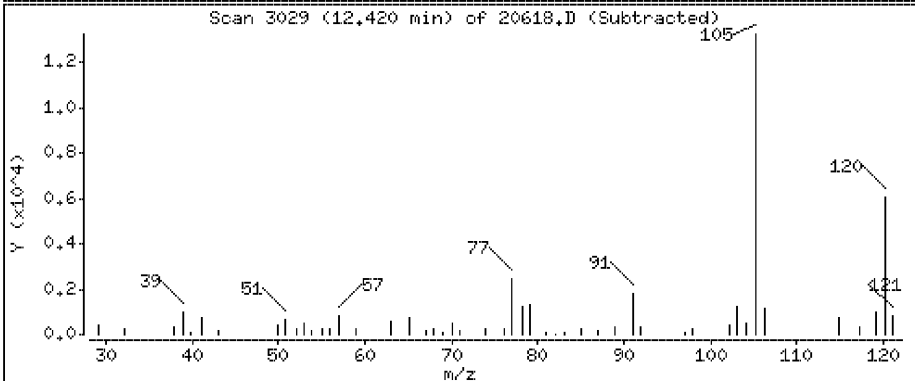
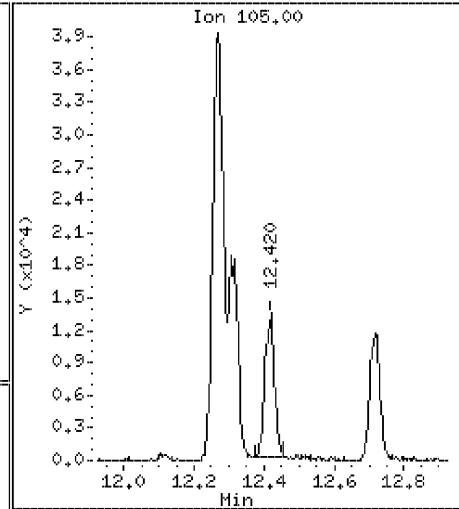
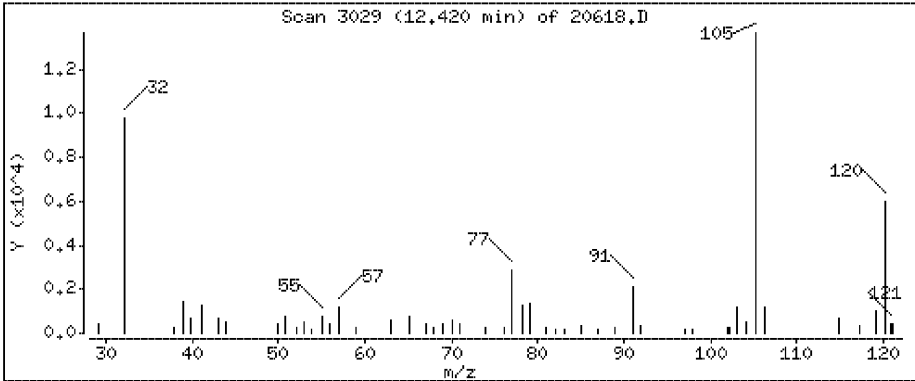
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

66 1,3,5-Trimethylbenzene

Concentration: 0.793 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20618.D

Date : 25-JUL-2013 21:26

Client ID:

Instrument: 10airD.i

Sample Info:

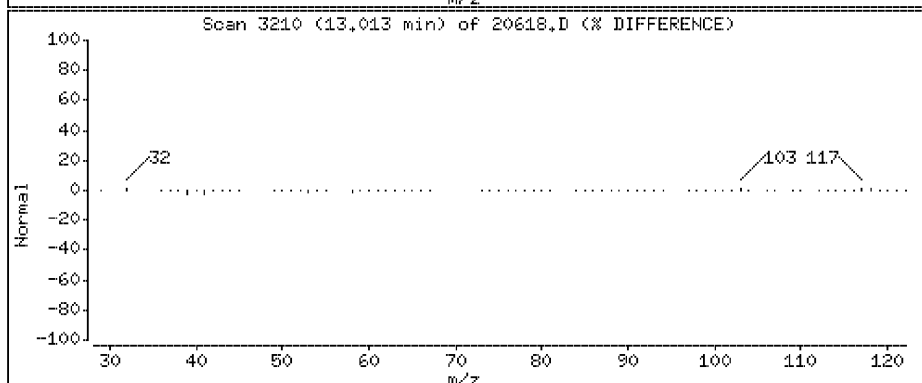
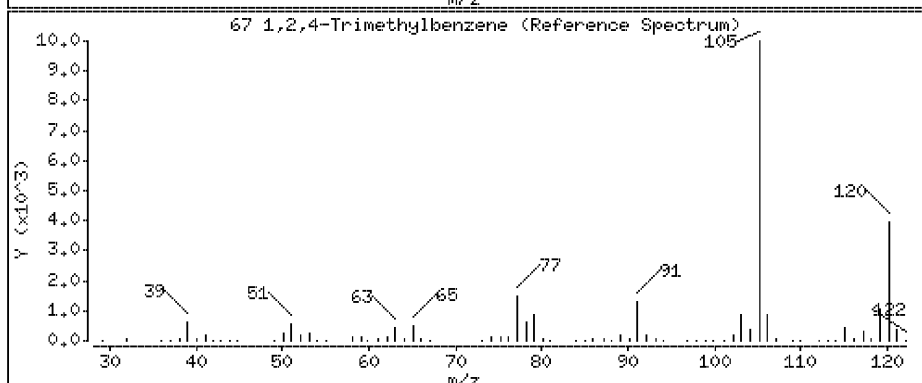
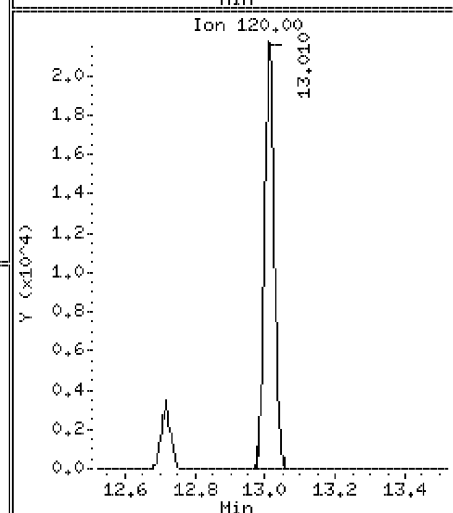
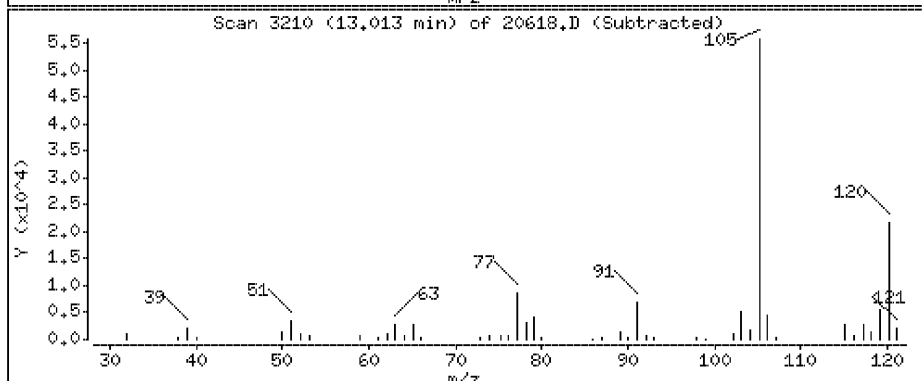
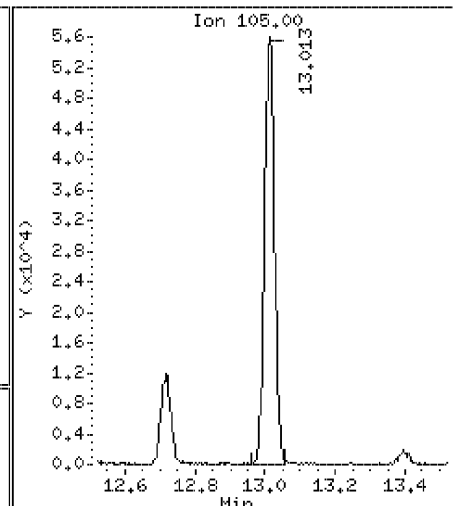
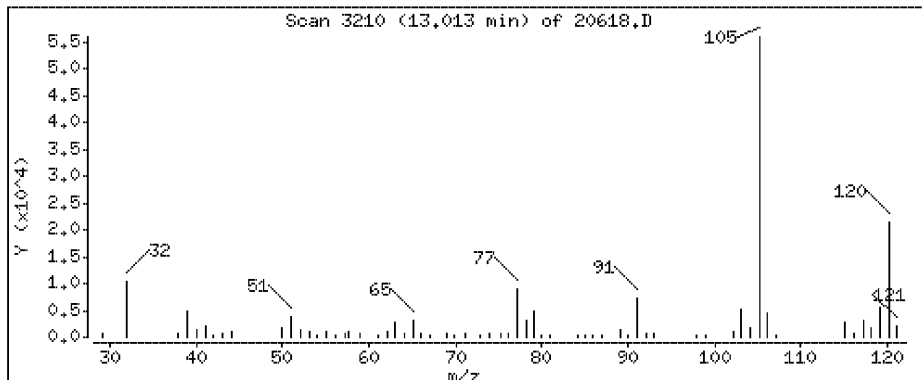
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

67 1,2,4-Trimethylbenzene

Concentration: 2,24 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20618.D

Date : 25-JUL-2013 21:26

Client ID:

Instrument: 10airD.i

Sample Info:

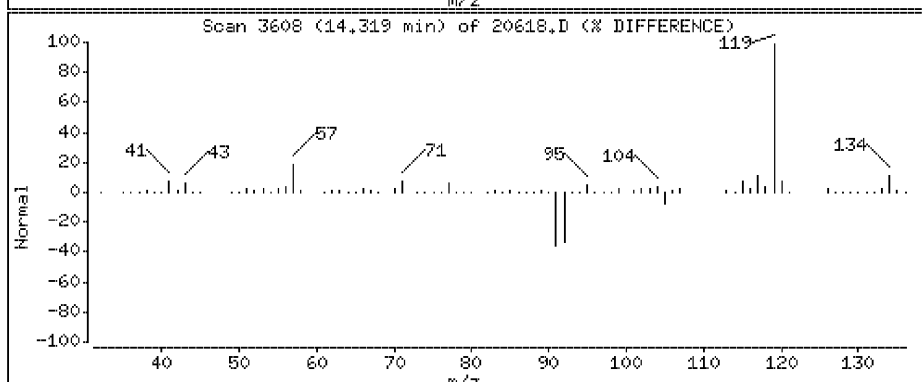
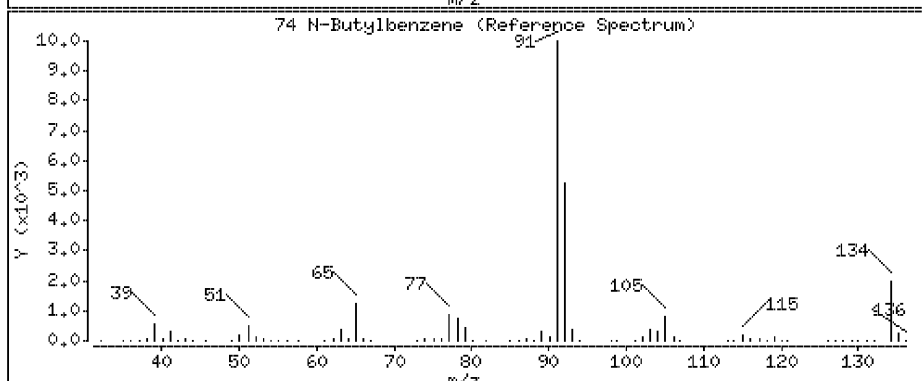
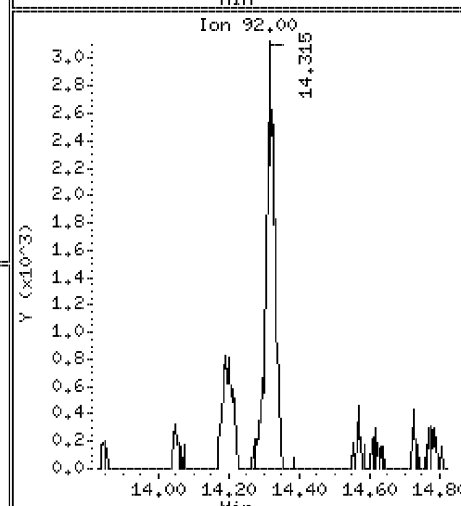
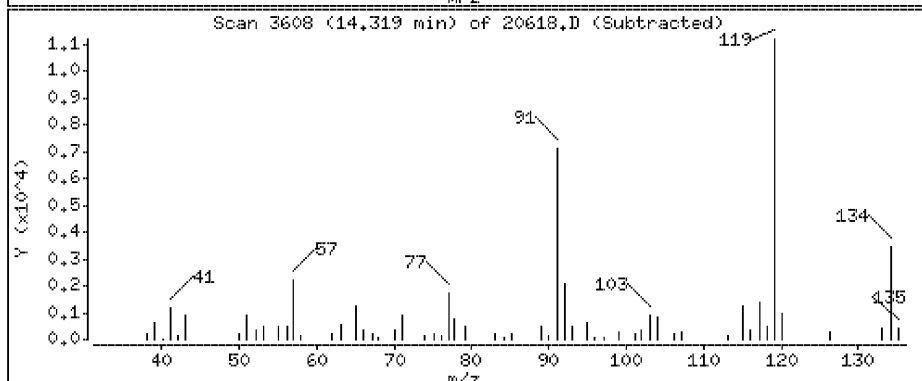
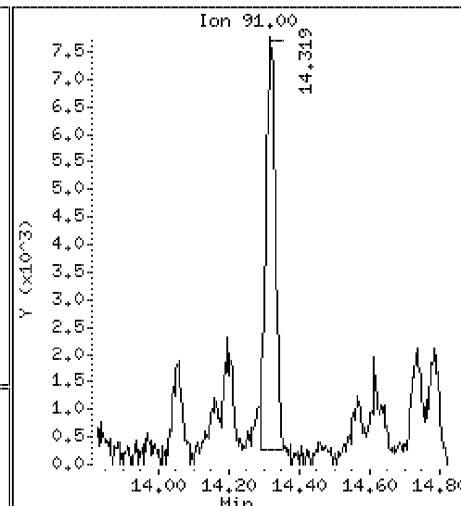
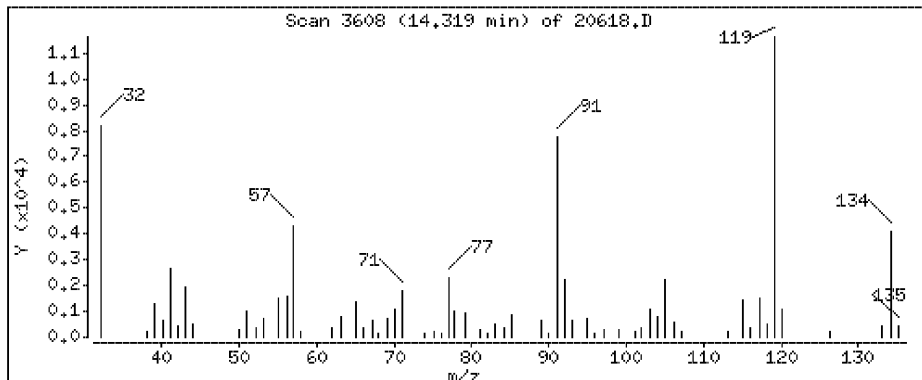
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

74 N-Butylbenzene

Concentration: 0.624 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20618.D

Date : 25-JUL-2013 21:26

Client ID:

Instrument: 10airD.i

Sample Info:

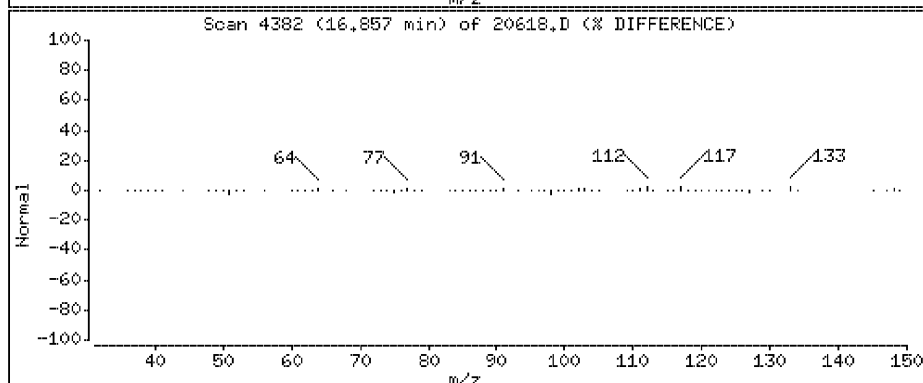
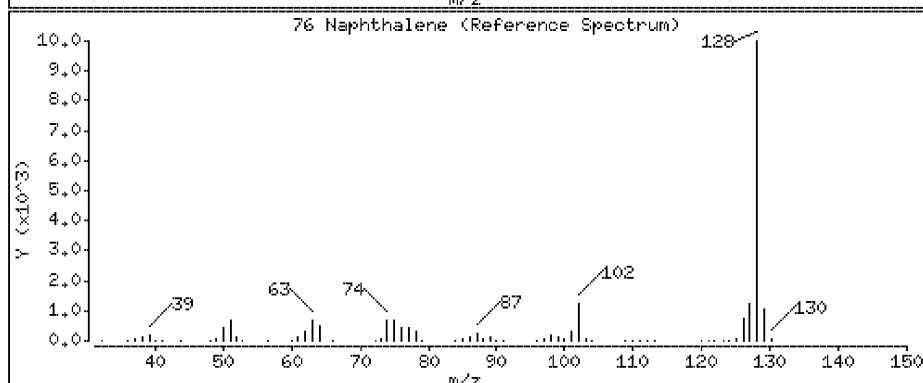
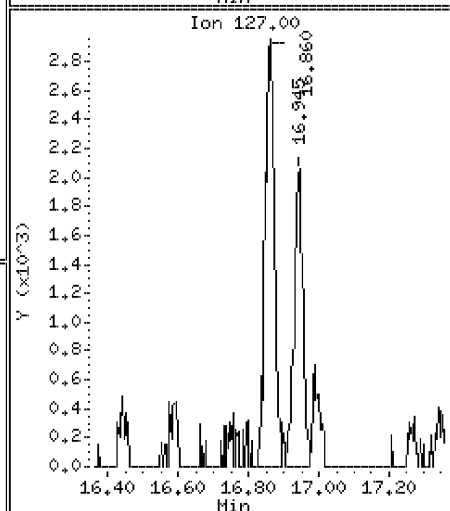
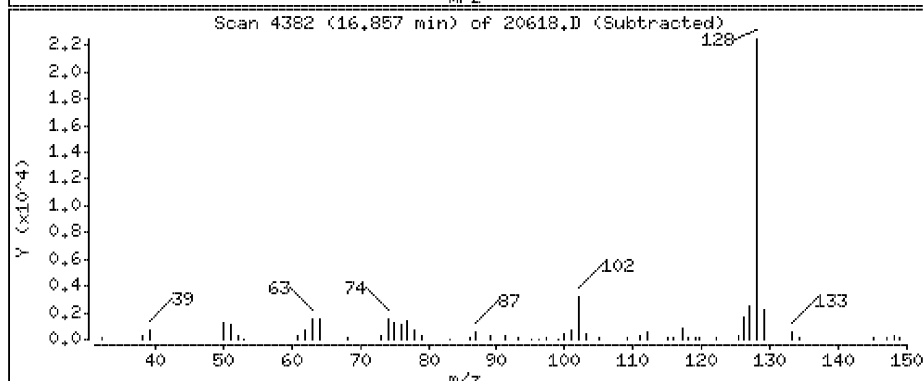
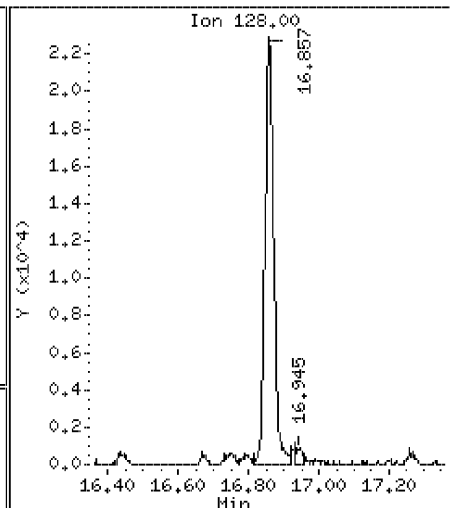
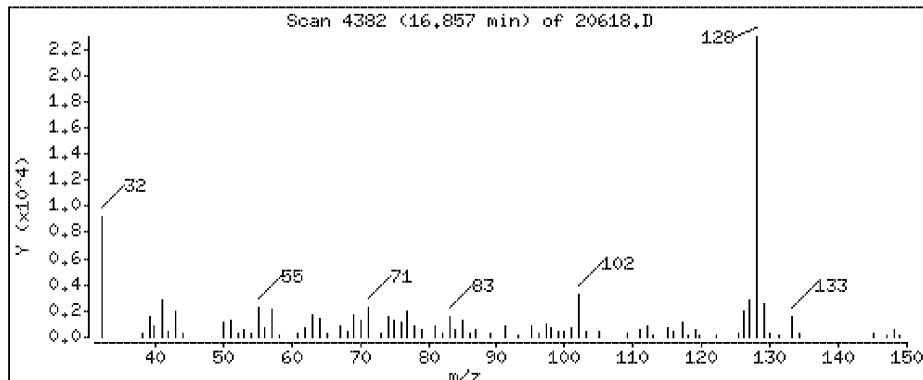
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

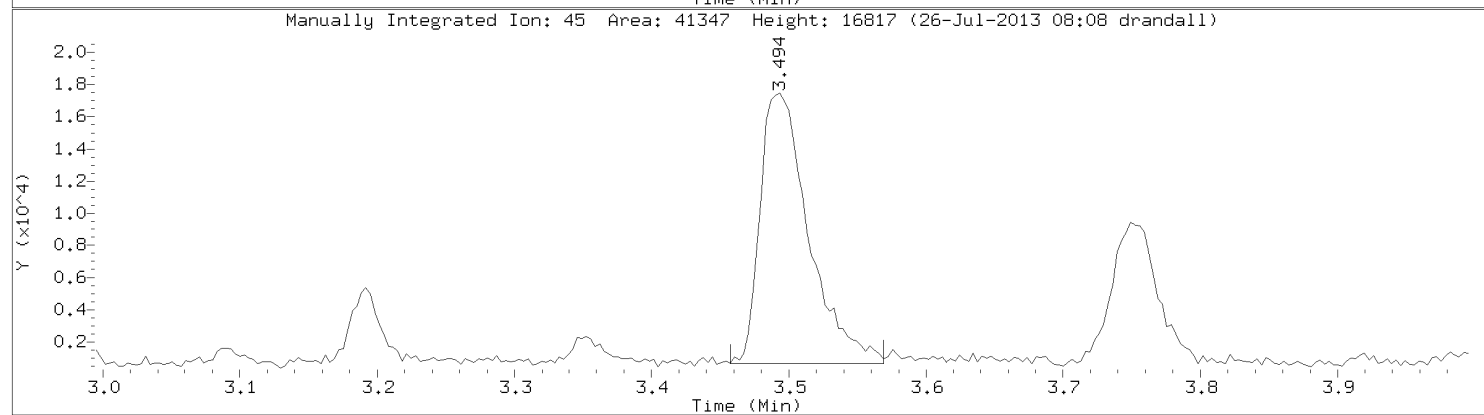
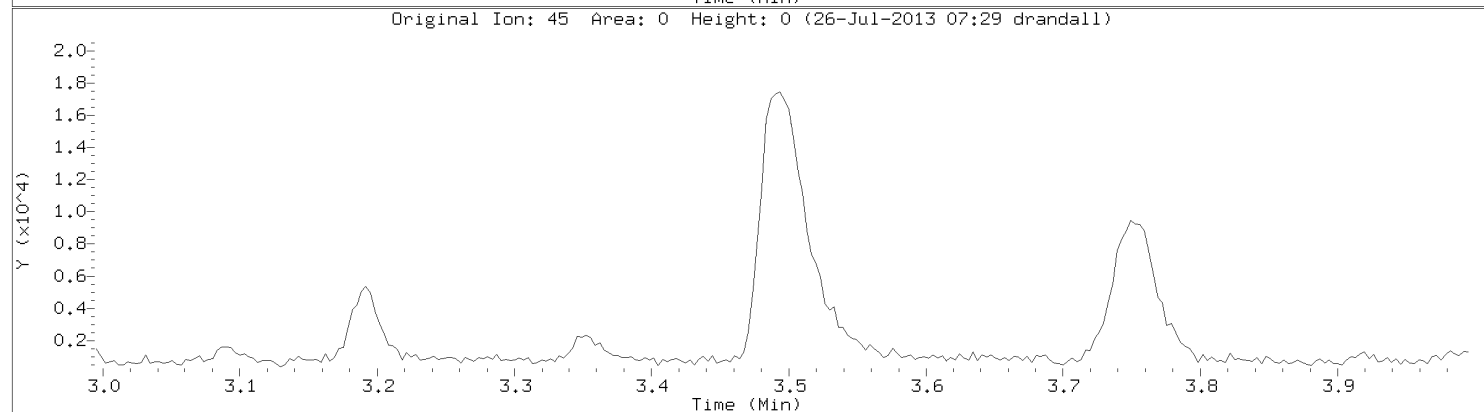
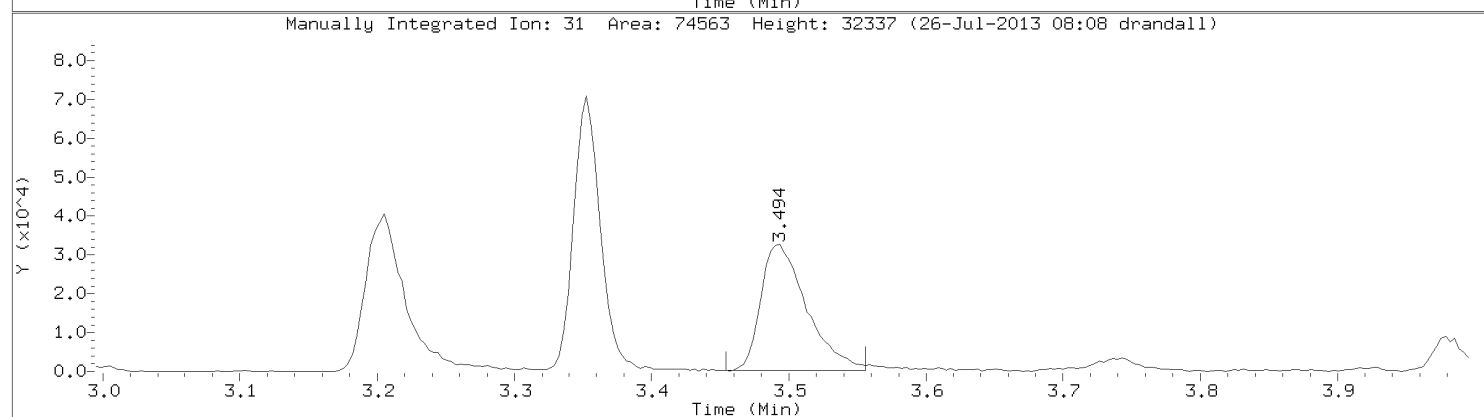
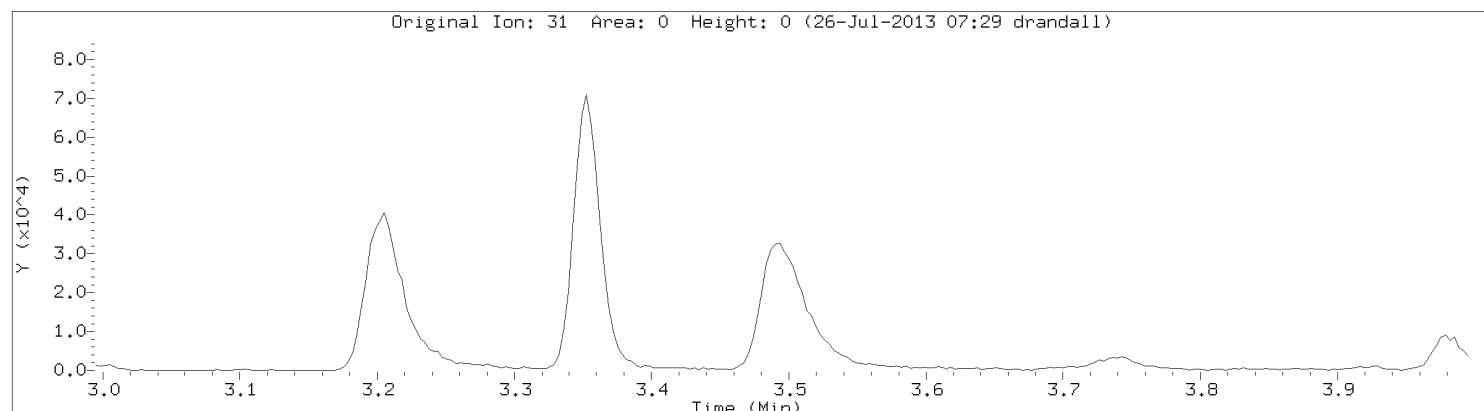
76 Naphthalene

Concentration: 1.77 ppbv



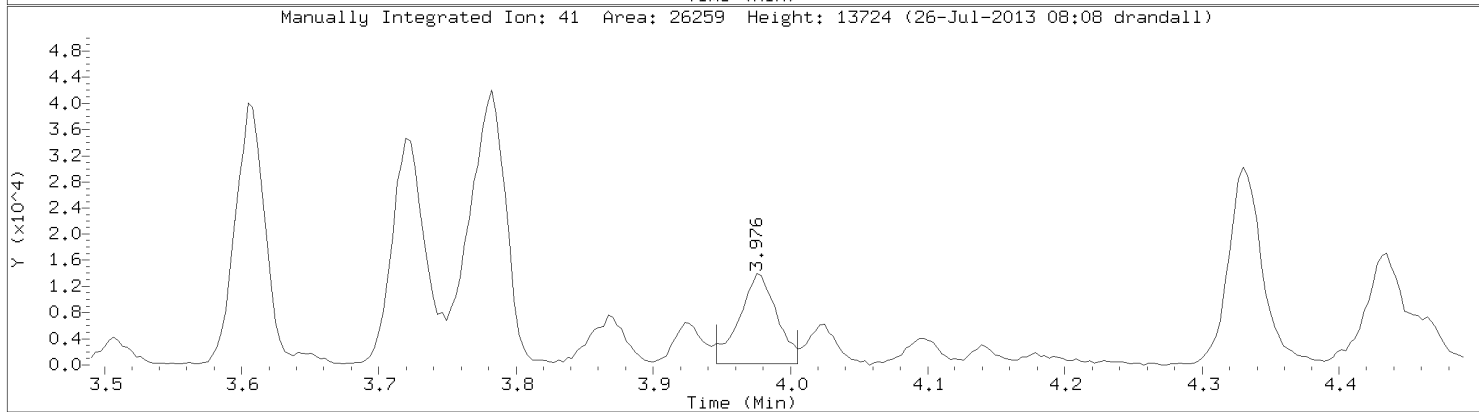
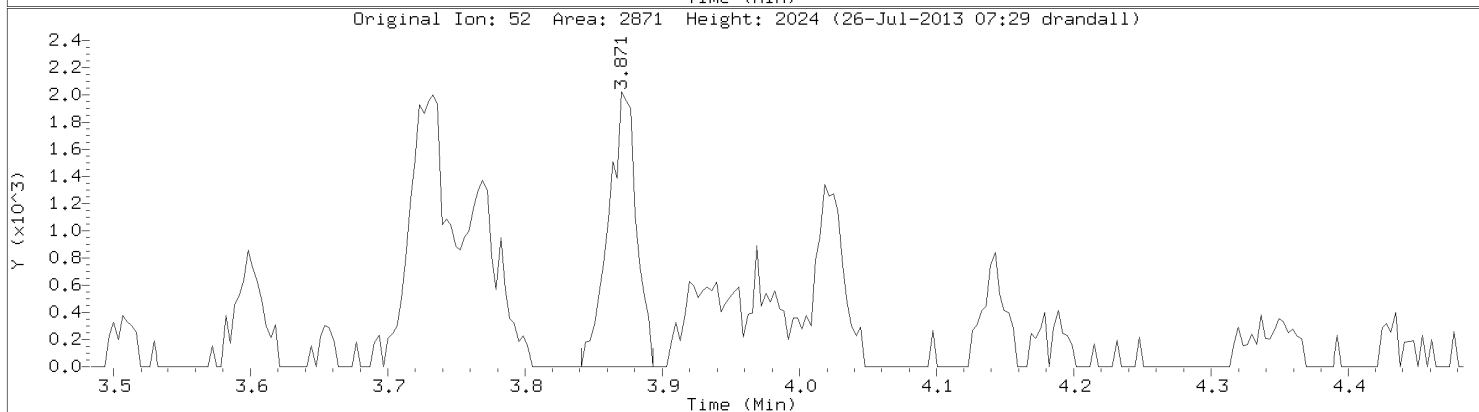
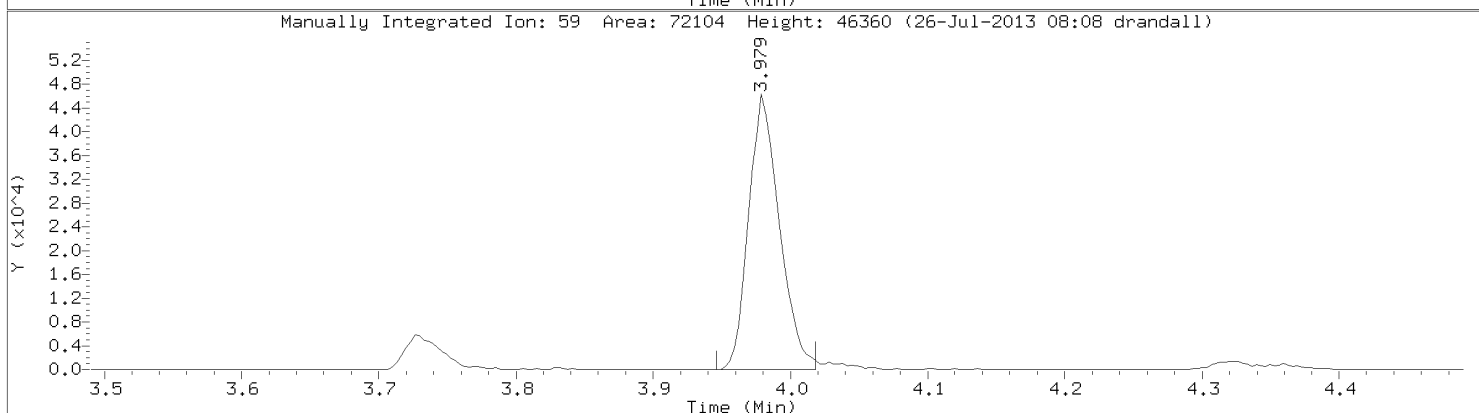
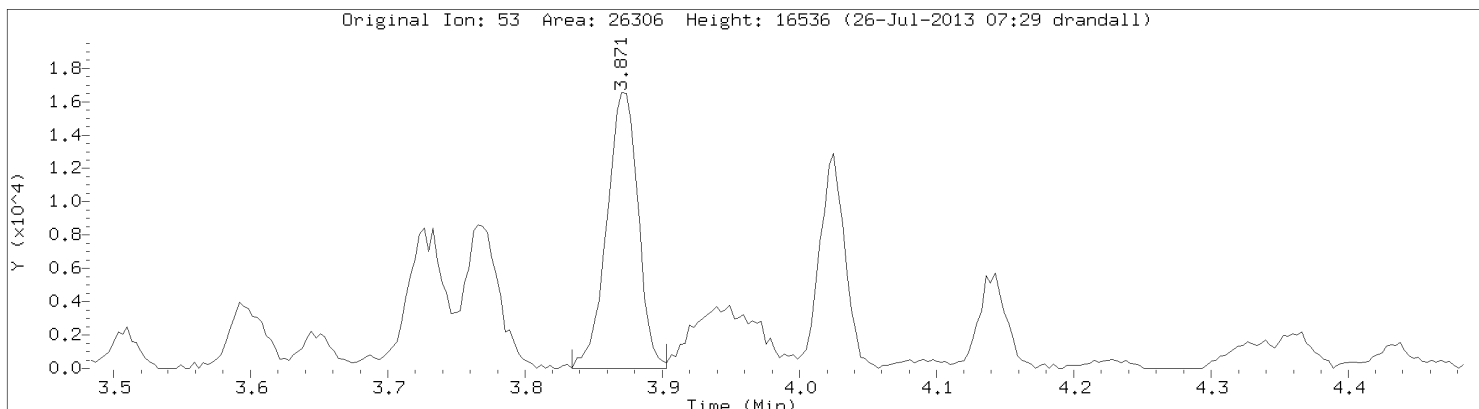
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Injection Date: 25-JUL-2013 21:26
Instrument: 10airD.i
Lab Sample ID: 10236207005

Compound: Ethanol
CAS Number: 64-17-5



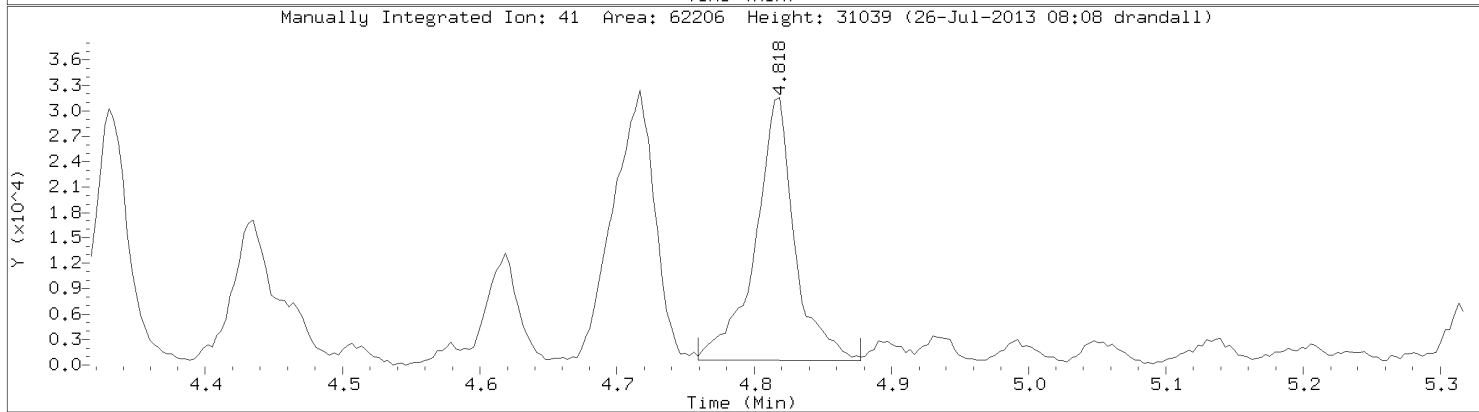
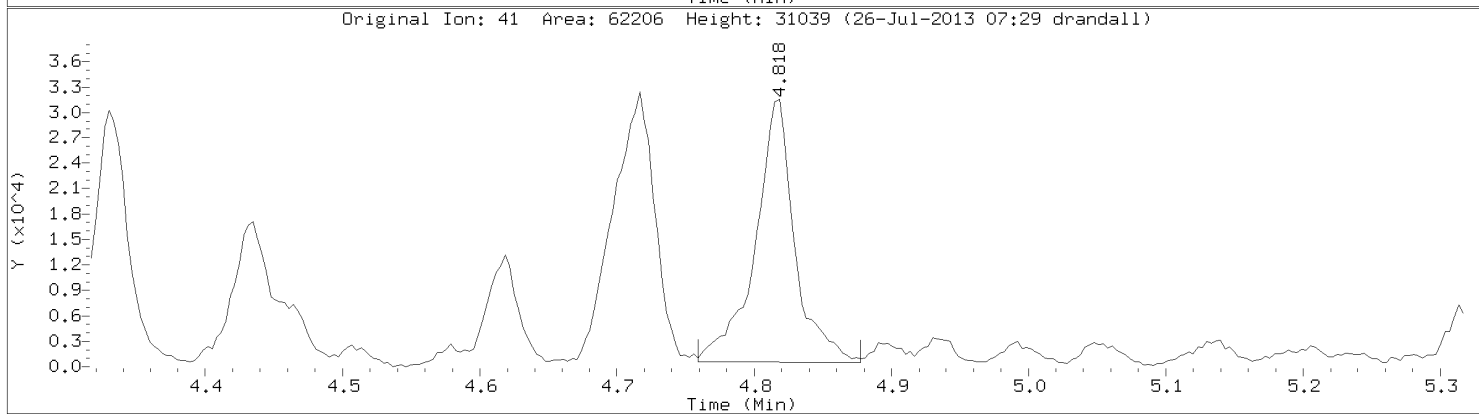
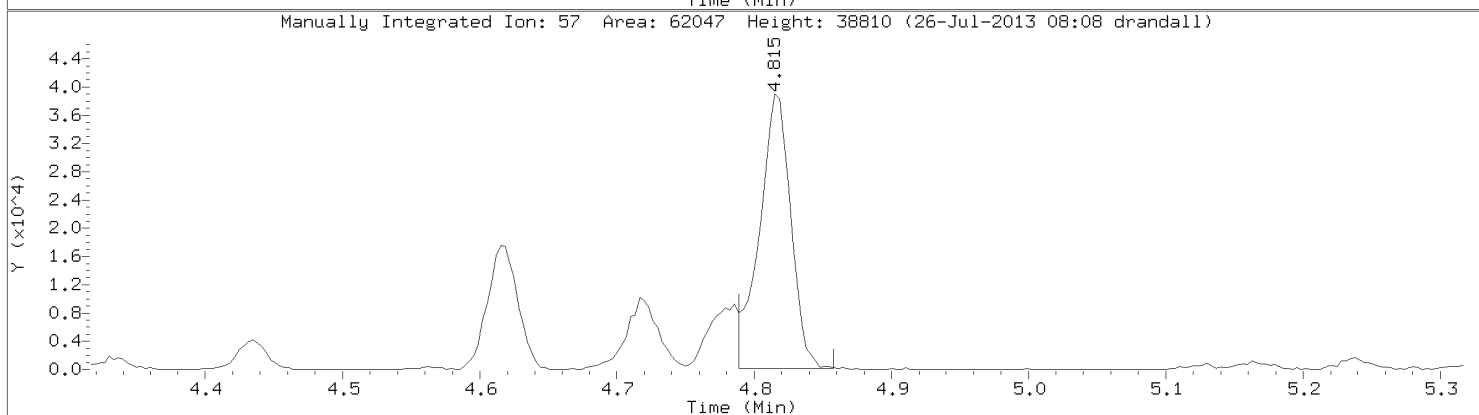
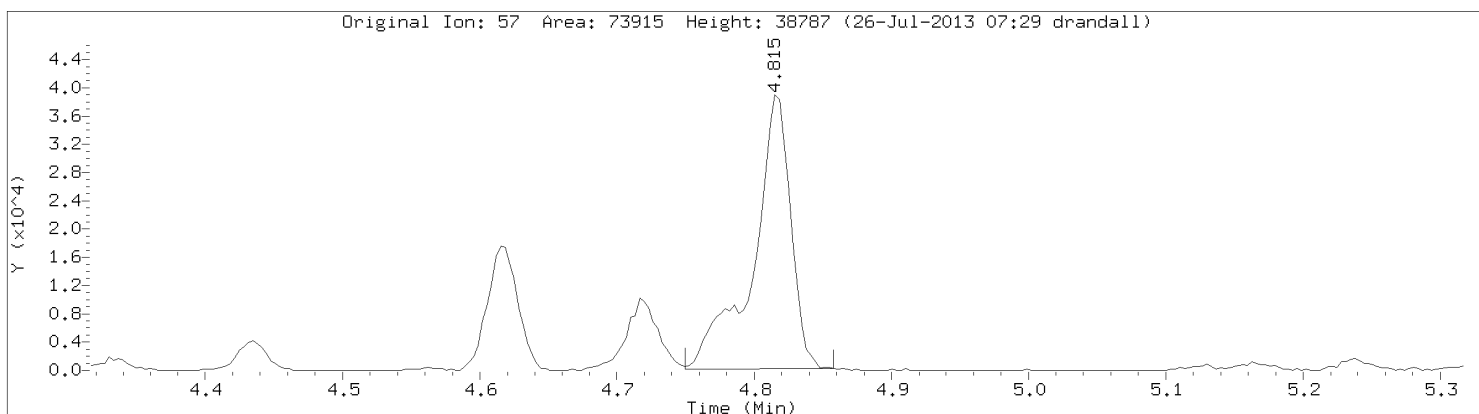
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Injection Date: 25-JUL-2013 21:26
Instrument: 10airD.i
Lab Sample ID: 10236207005

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

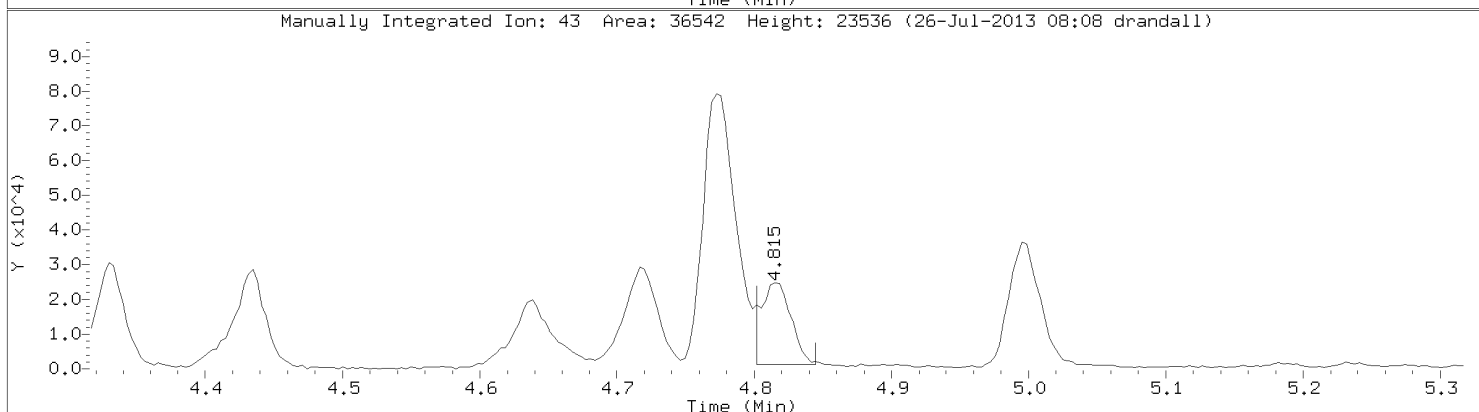
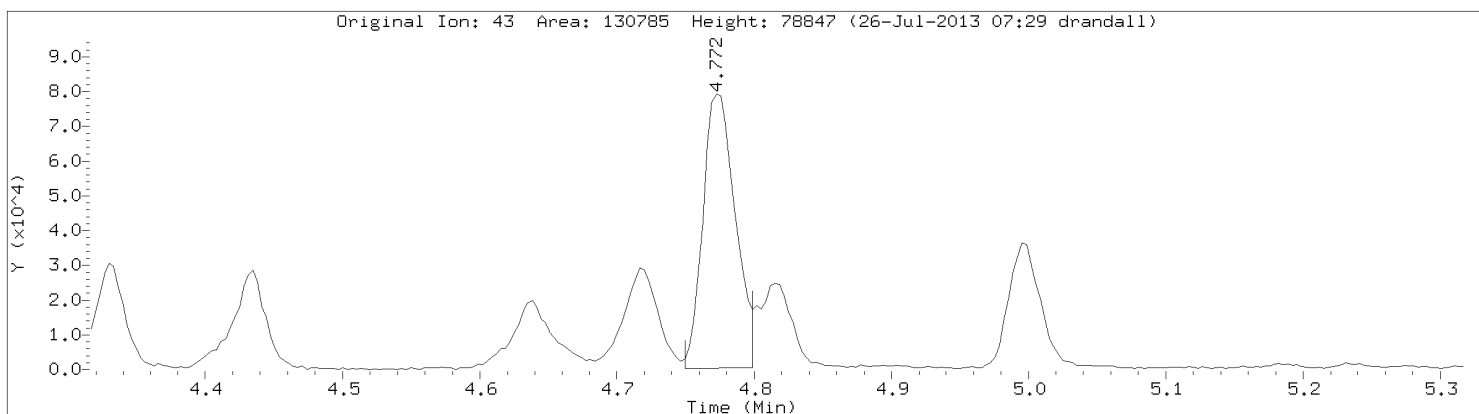


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Injection Date: 25-JUL-2013 21:26
Instrument: 10airD.i
Lab Sample ID: 10236207005

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

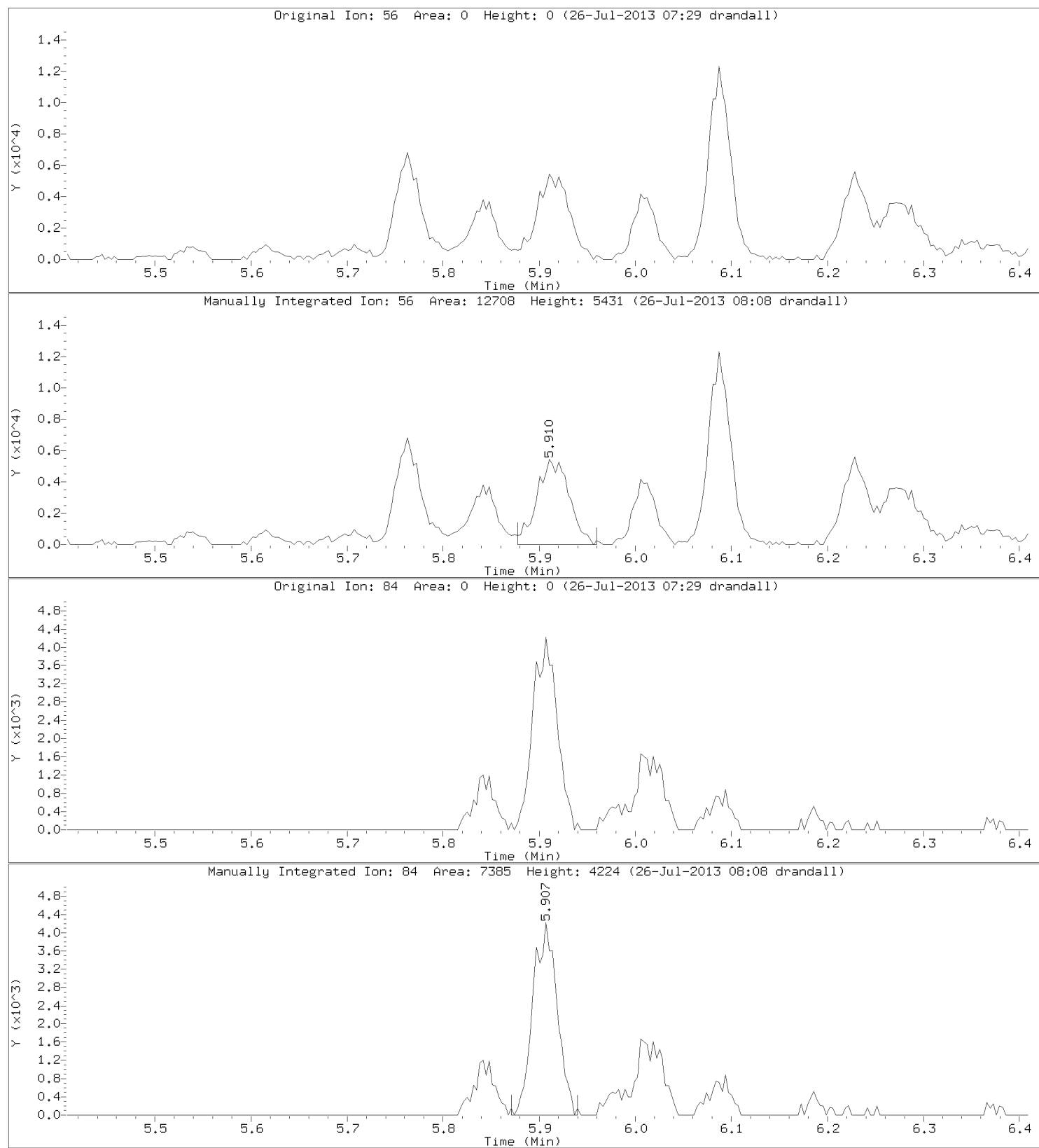


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Injection Date: 25-JUL-2013 21:26
Instrument: 10airD.i
Lab Sample ID: 10236207005

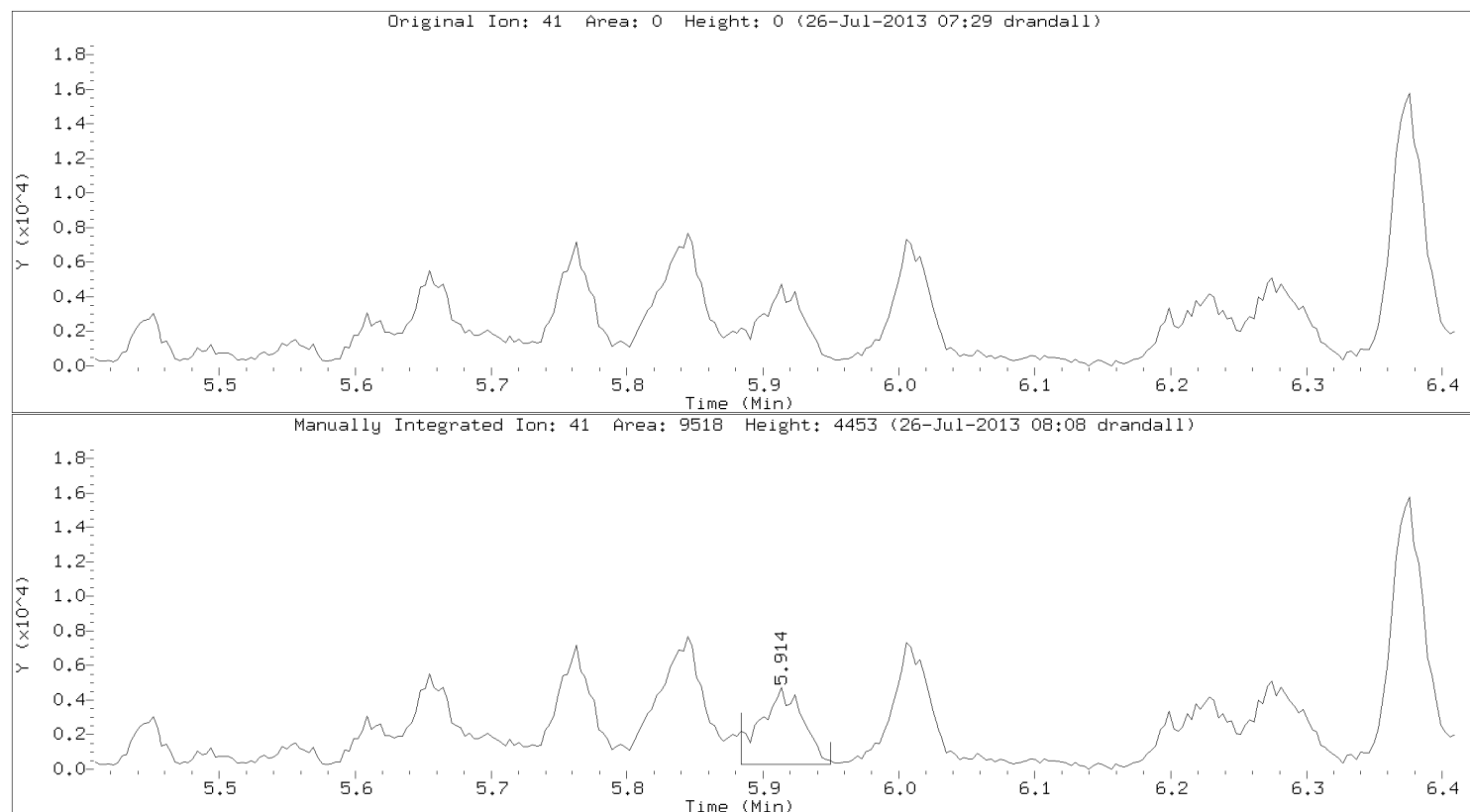


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Injection Date: 25-JUL-2013 21:26
Instrument: 10airD.i
Lab Sample ID: 10236207005

Compound: Cyclohexane
CAS Number: 110-82-7

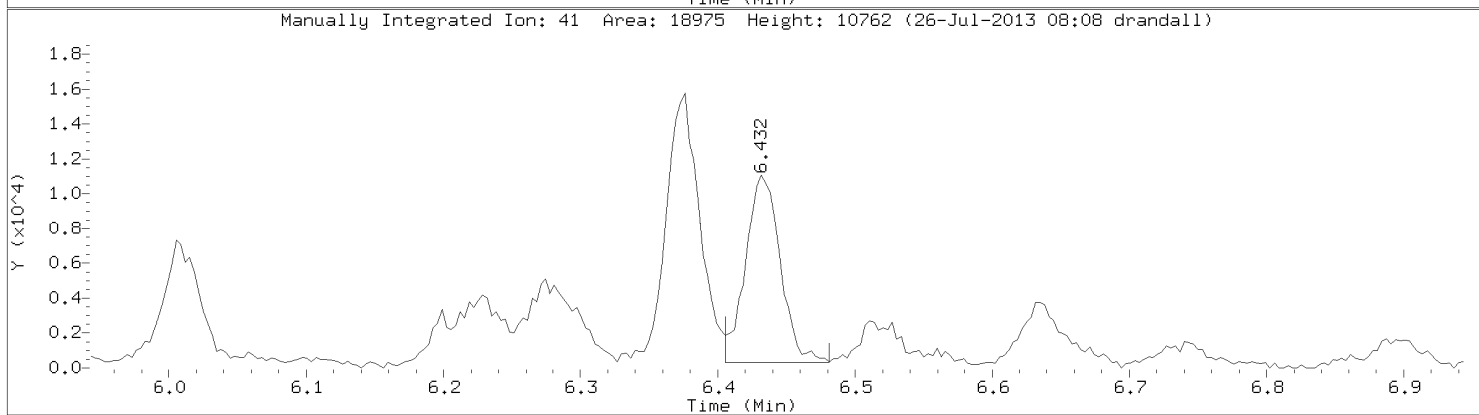
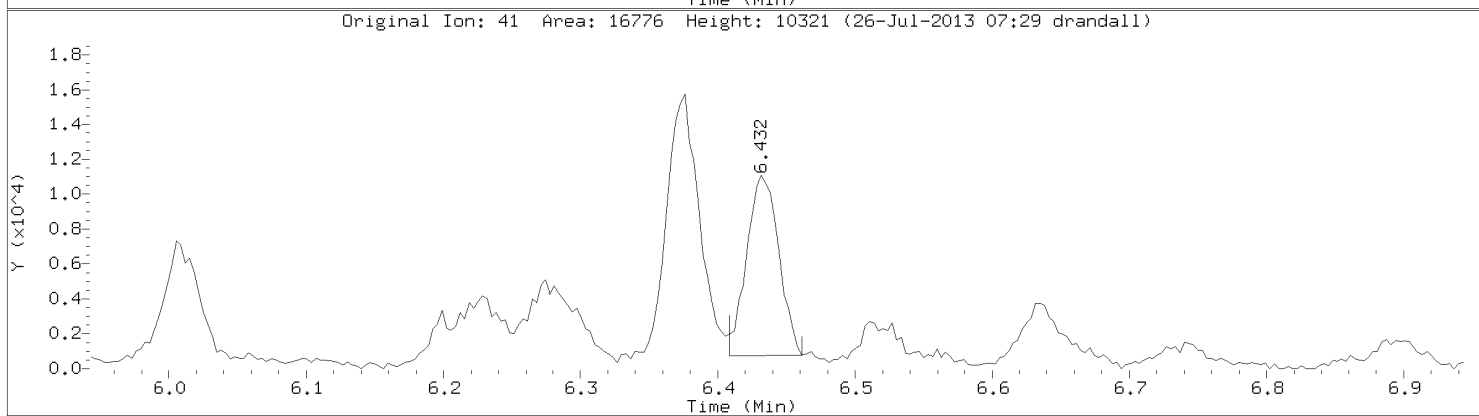
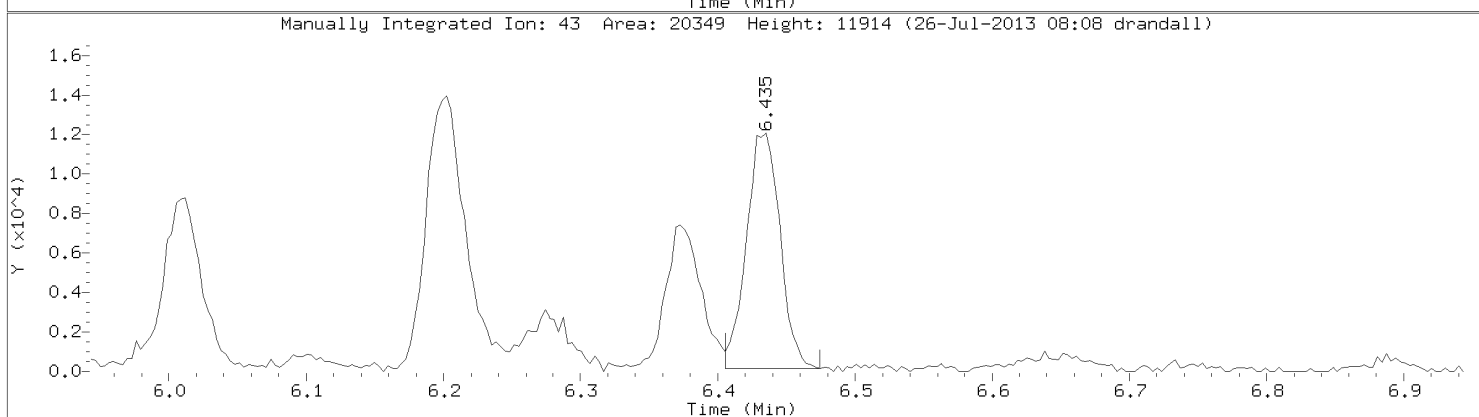
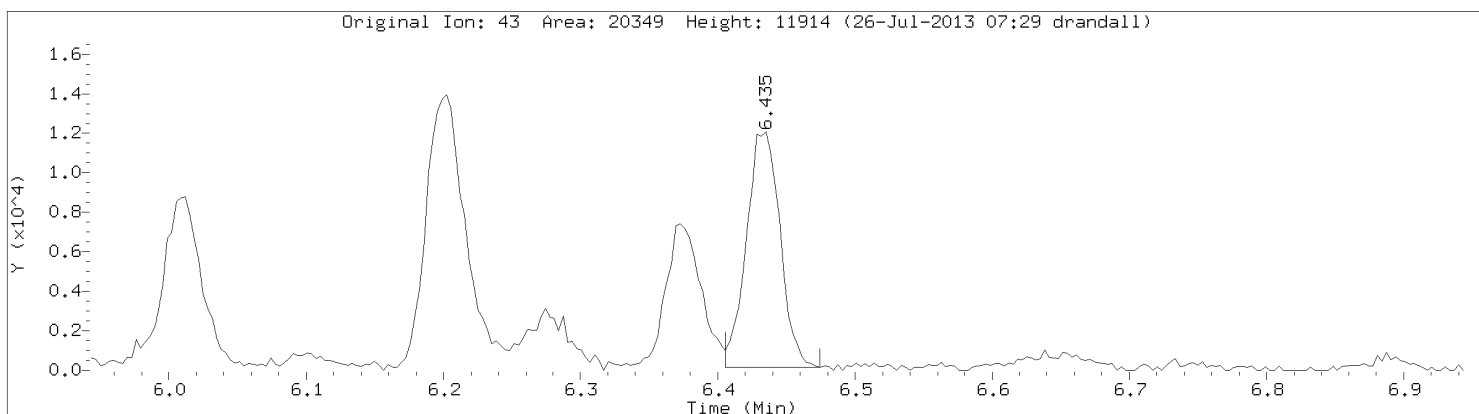


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Injection Date: 25-JUL-2013 21:26
Instrument: 10airD.i
Lab Sample ID: 10236207005



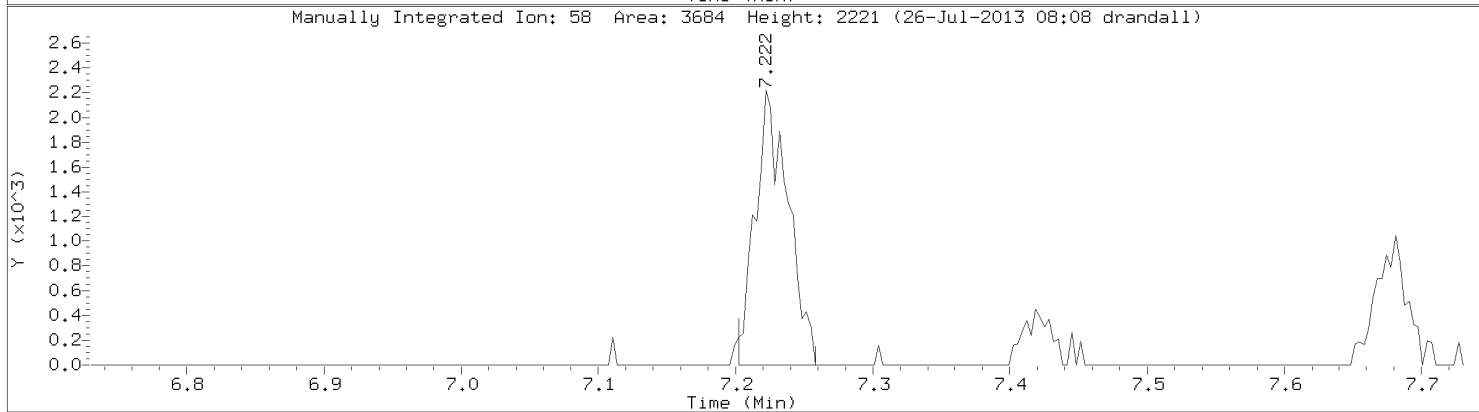
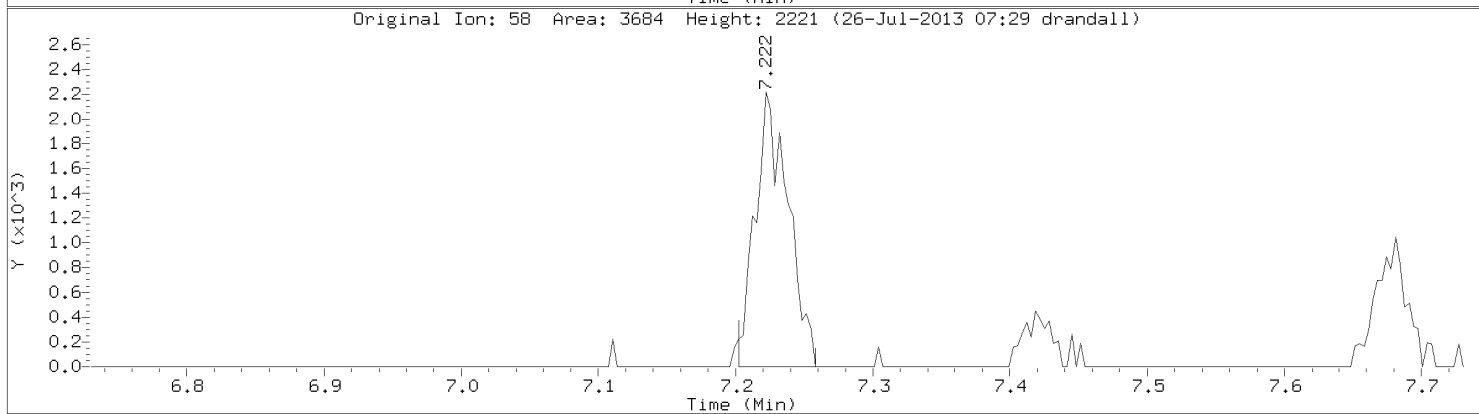
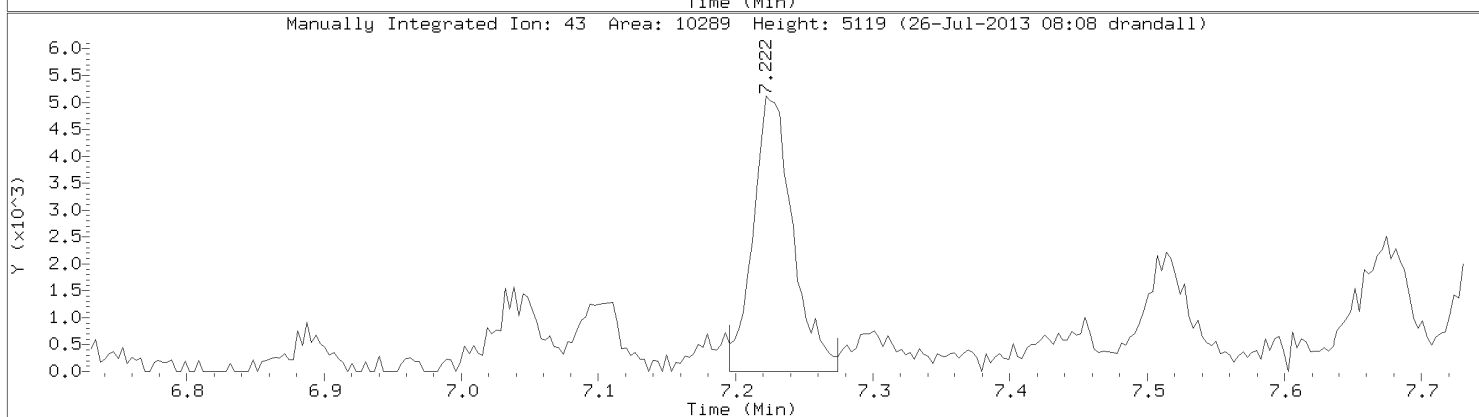
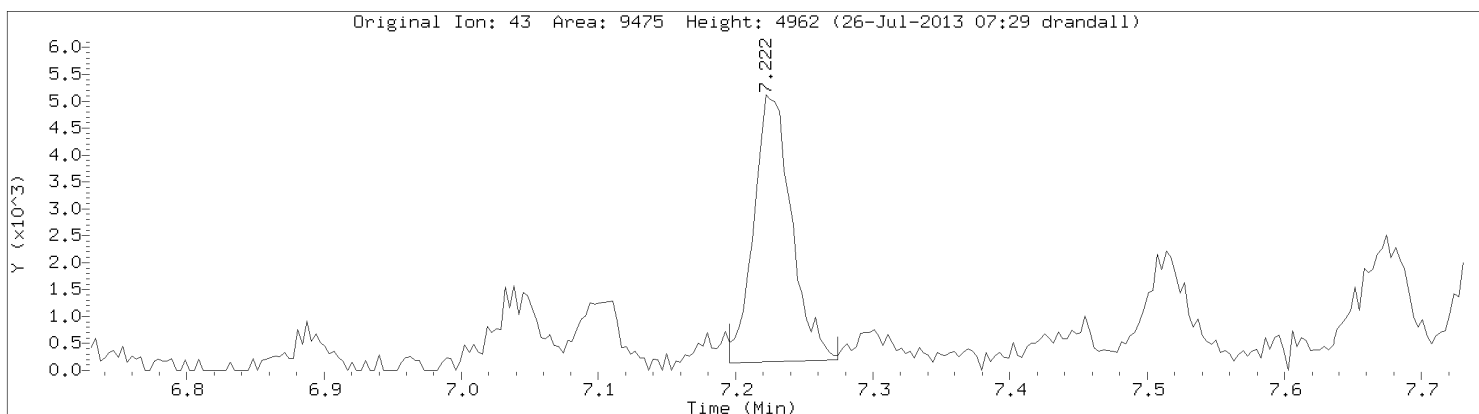
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Injection Date: 25-JUL-2013 21:26
Instrument: 10airD.i
Lab Sample ID: 10236207005

Compound: Heptane
CAS Number: 142-82-5

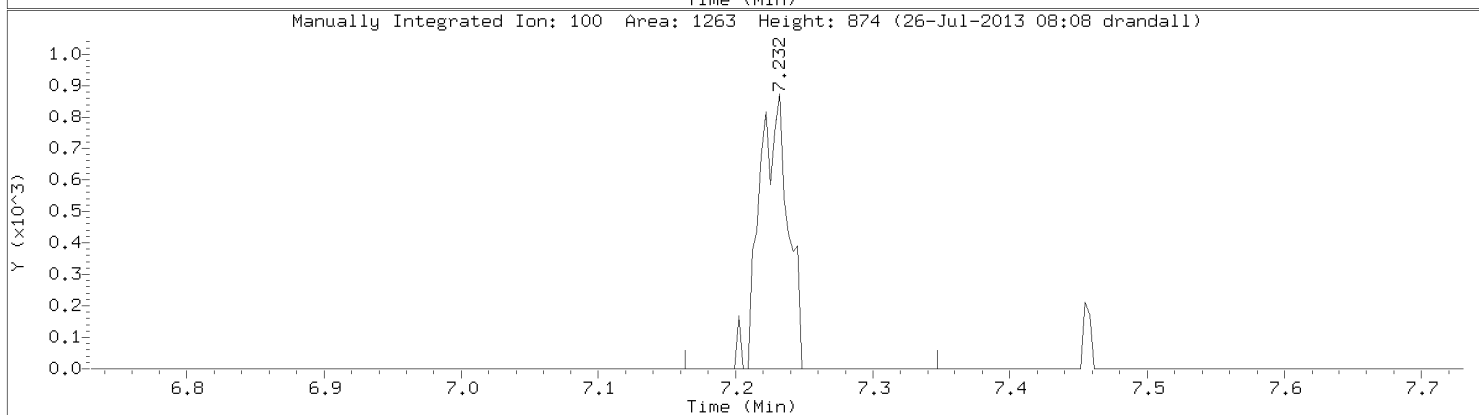
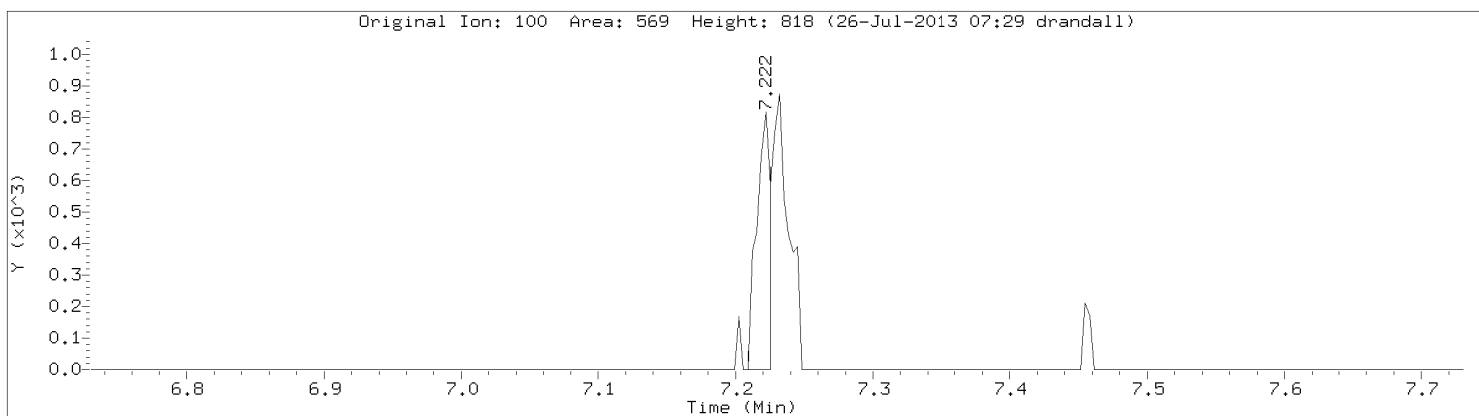


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Injection Date: 25-JUL-2013 21:26
Instrument: 10airD.i
Lab Sample ID: 10236207005

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

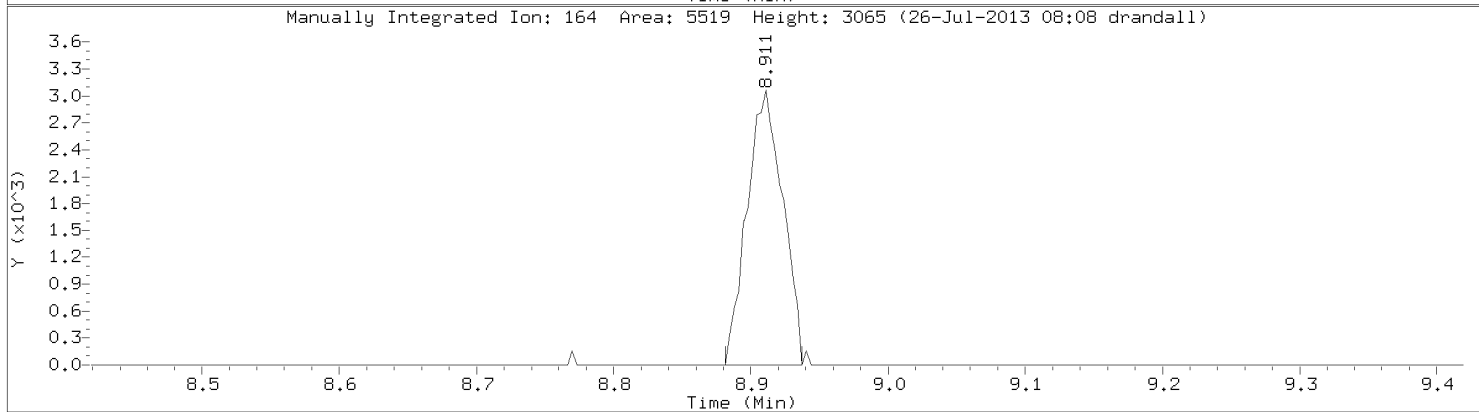
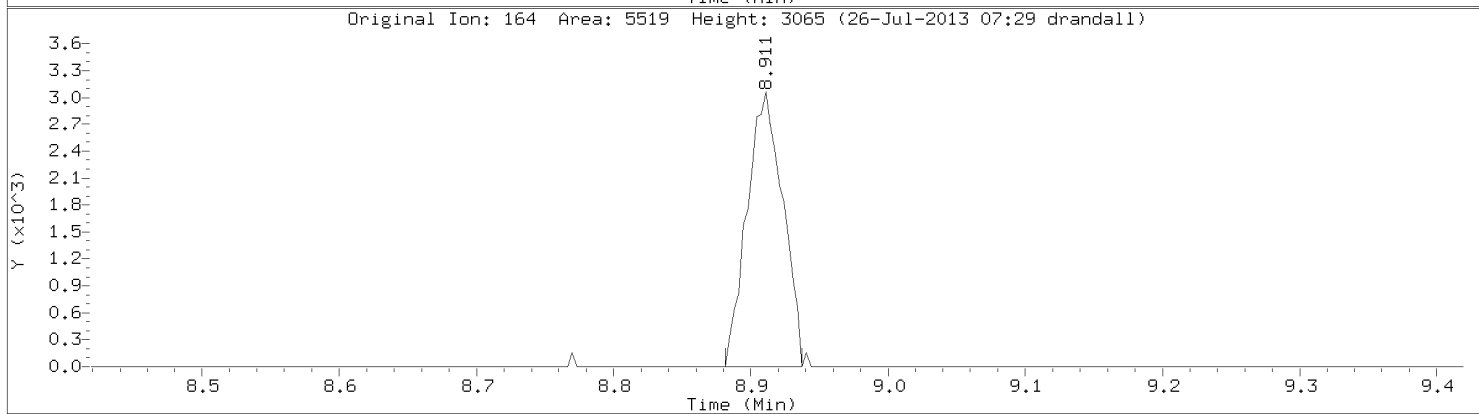
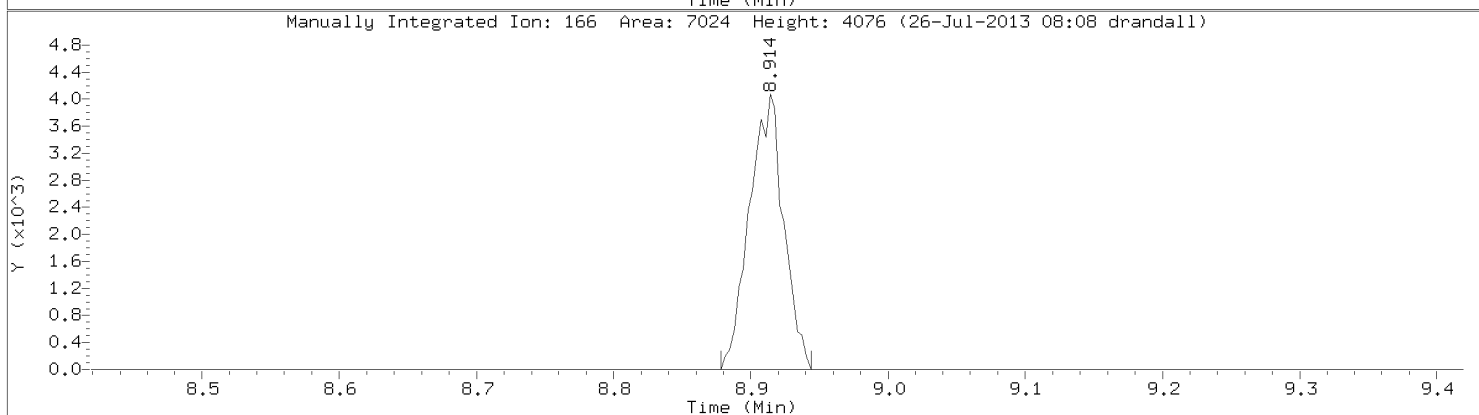
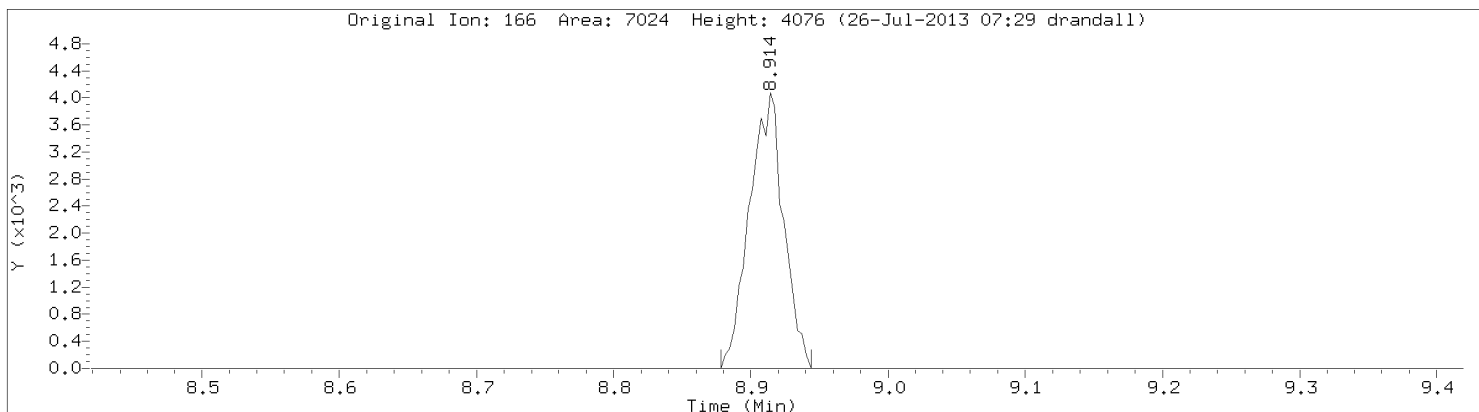


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Lab Sample ID: 10236207005

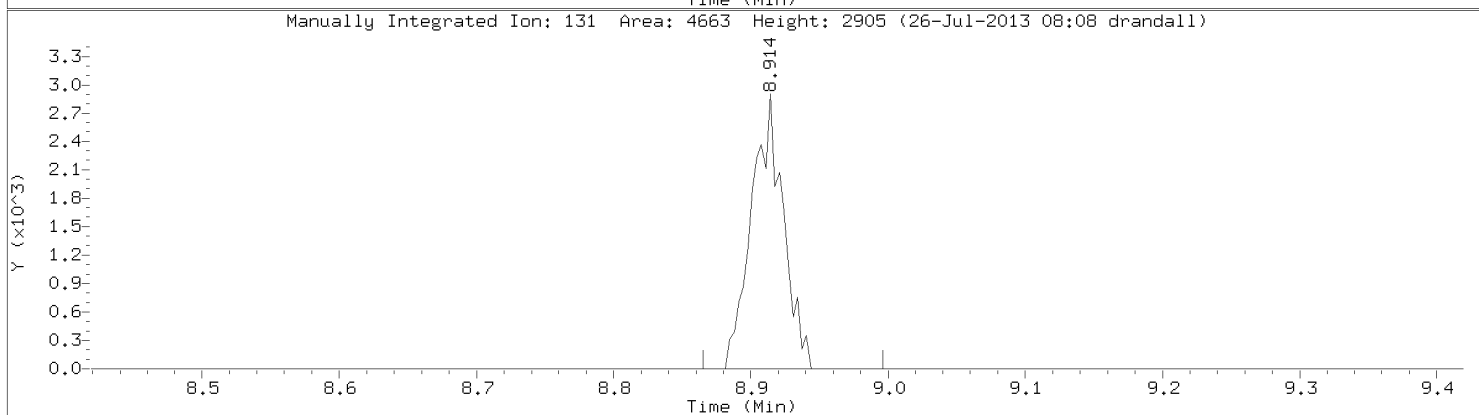
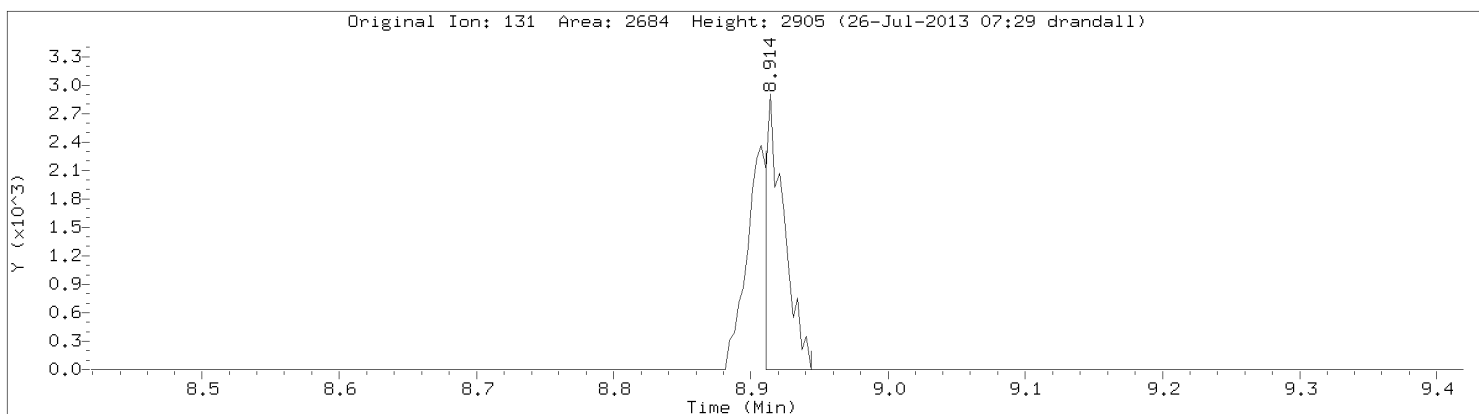


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Injection Date: 25-JUL-2013 21:26
Instrument: 10airD.i
Lab Sample ID: 10236207005

Compound: Tetrachloroethene
CAS Number: 127-18-4

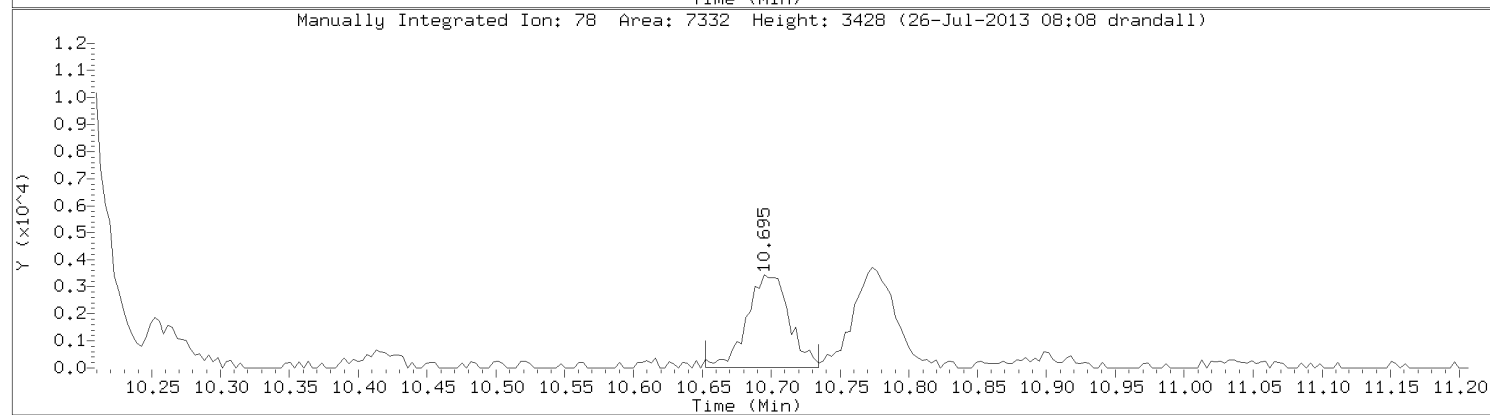
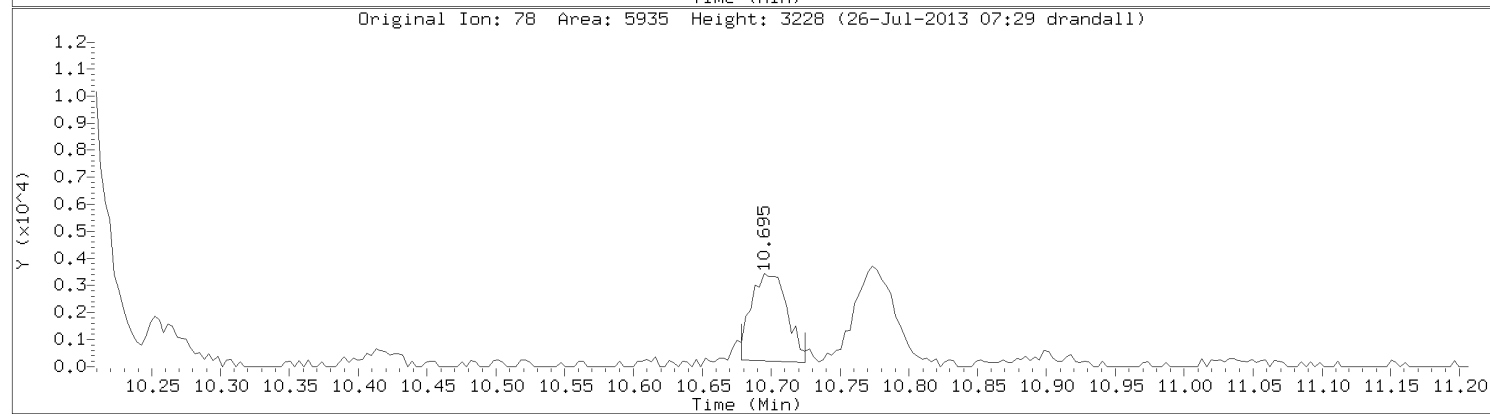
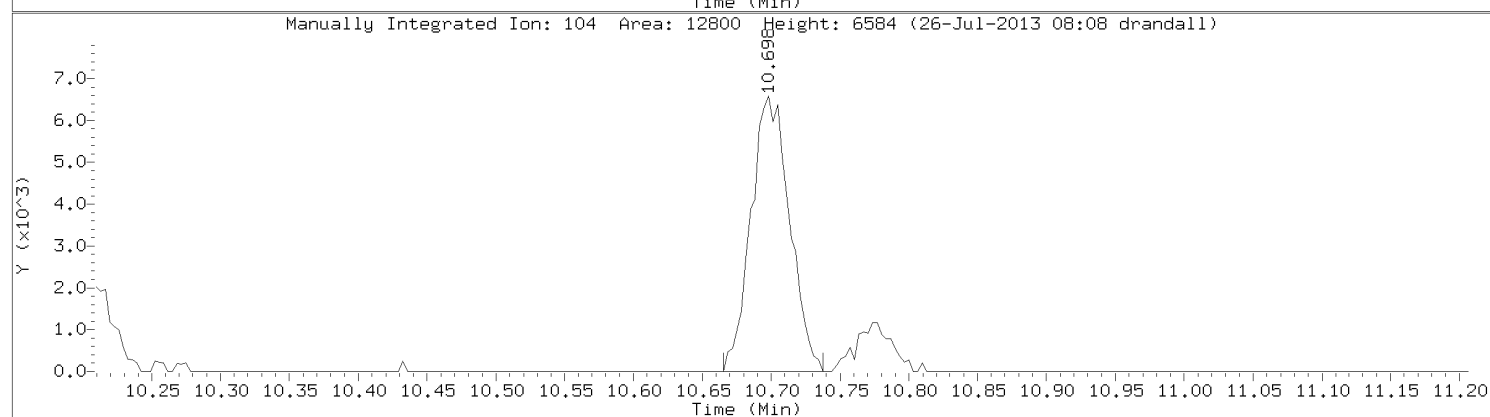
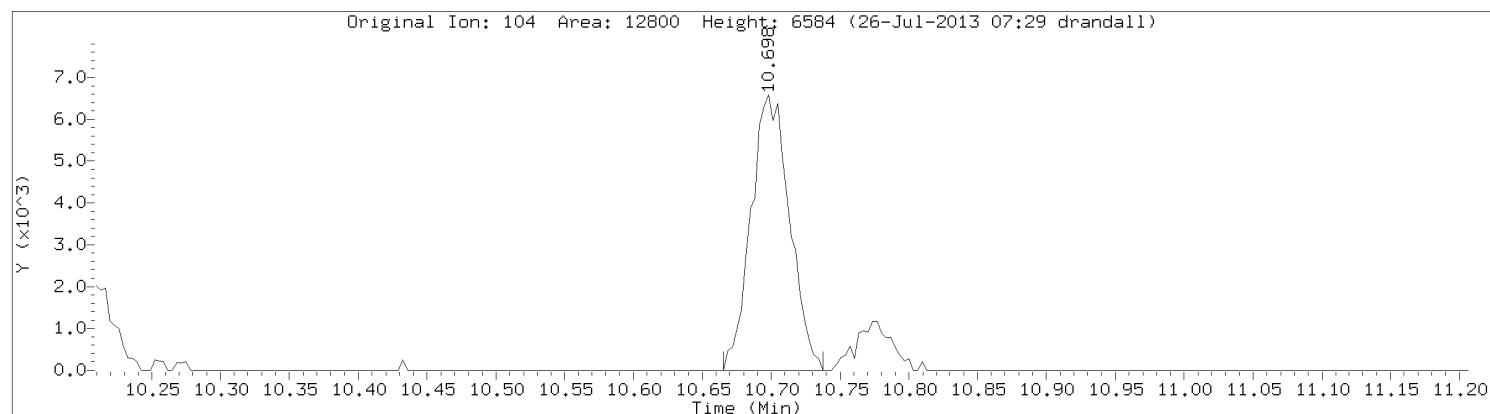


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Injection Date: 25-JUL-2013 21:26
Instrument: 10airD.i
Lab Sample ID: 10236207005

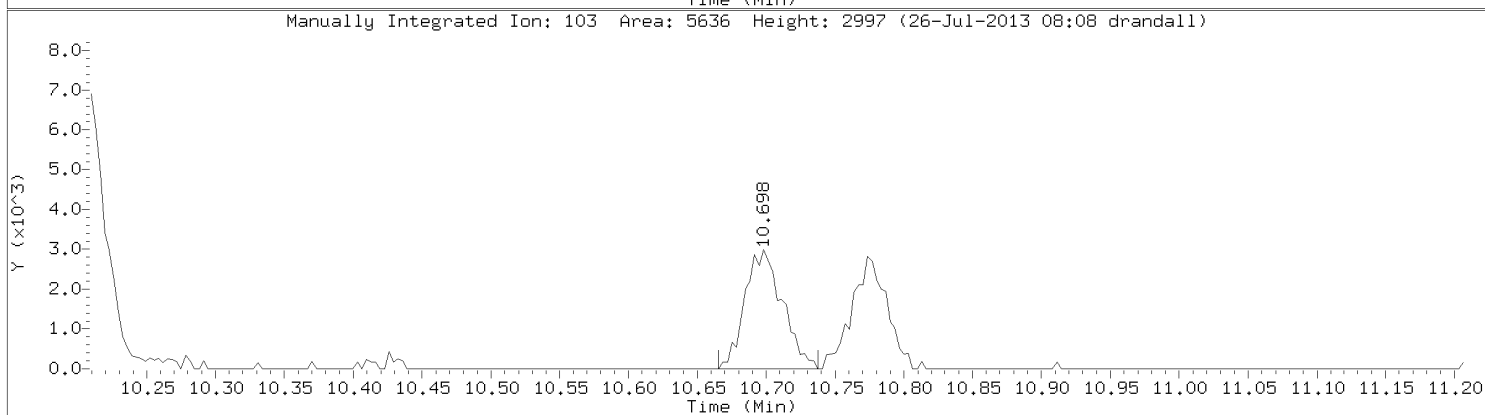
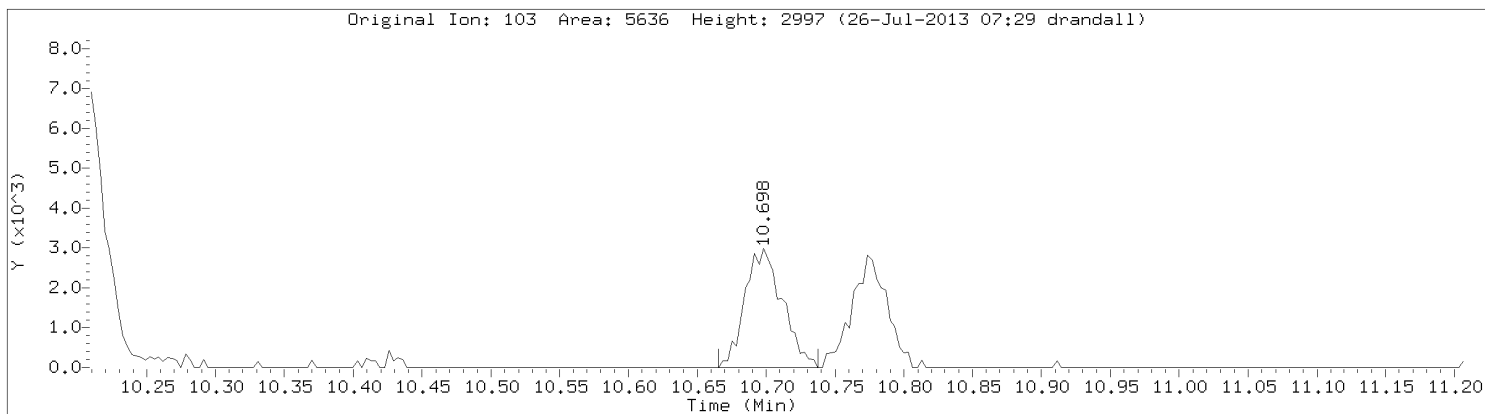


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Injection Date: 25-JUL-2013 21:26
Instrument: 10airD.i
Lab Sample ID: 10236207005

Compound: Styrene
CAS Number: 100-42-5

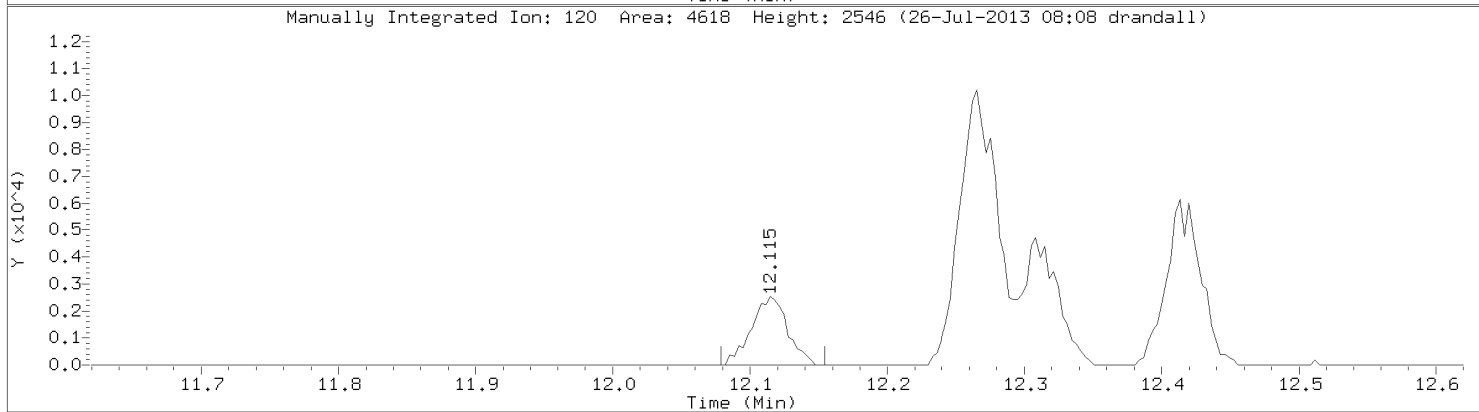
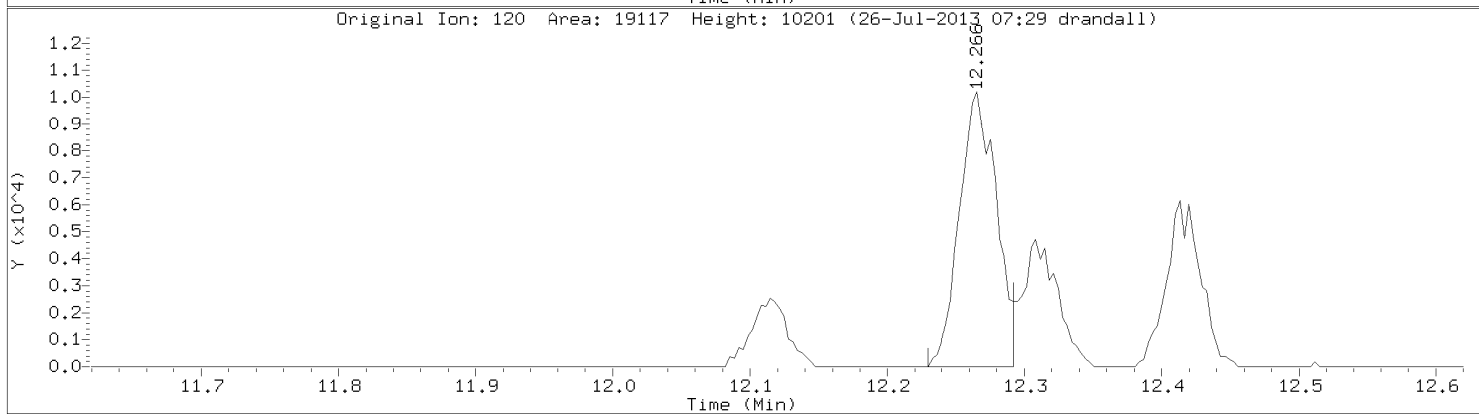
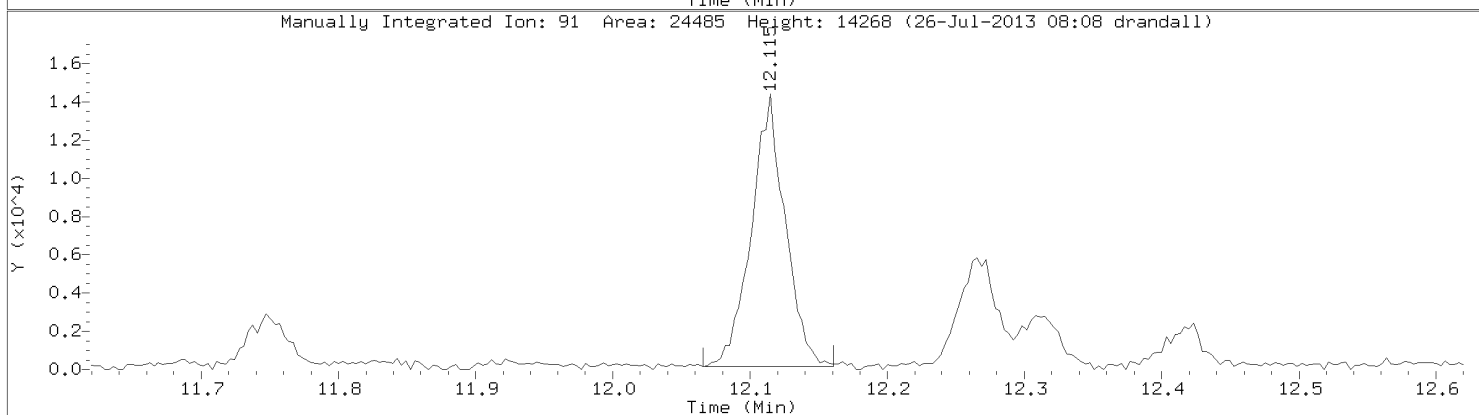
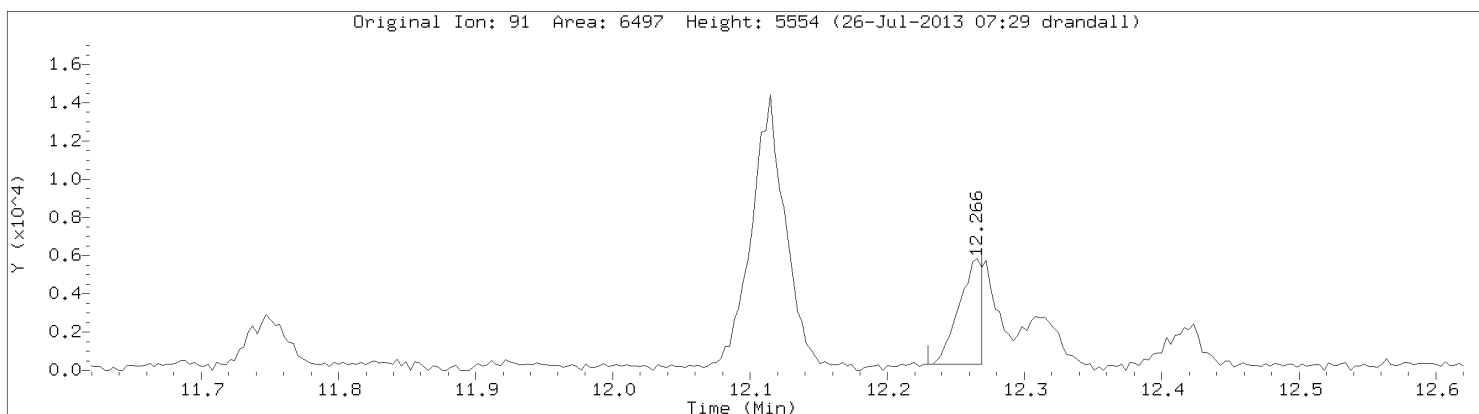


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Injection Date: 25-JUL-2013 21:26
Instrument: 10airD.i
Lab Sample ID: 10236207005



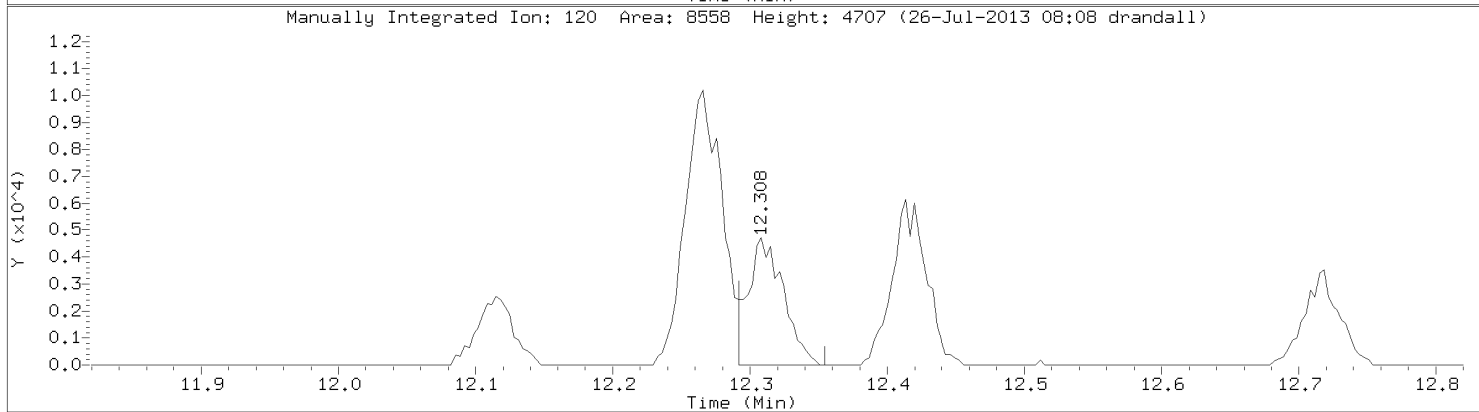
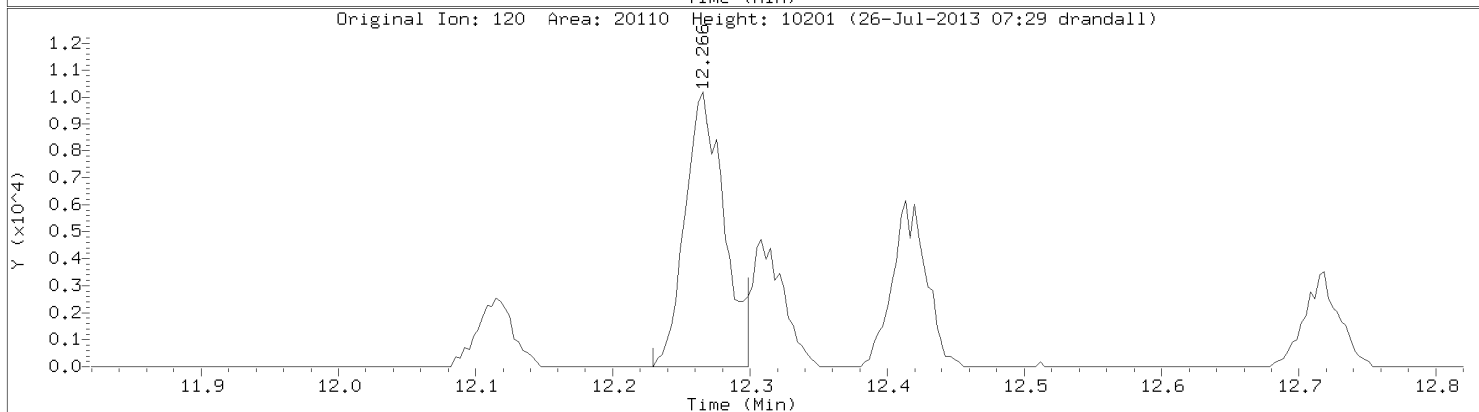
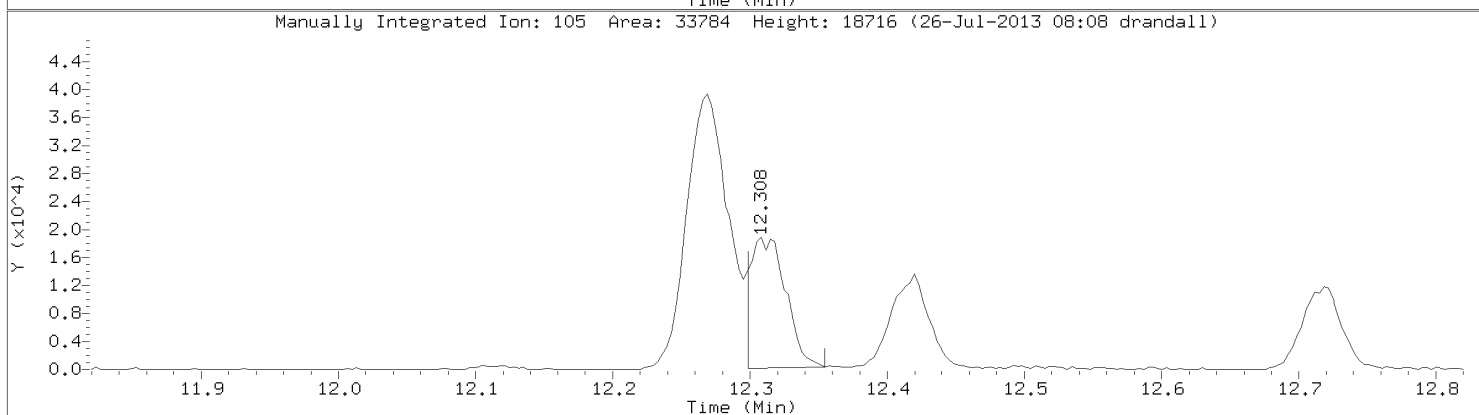
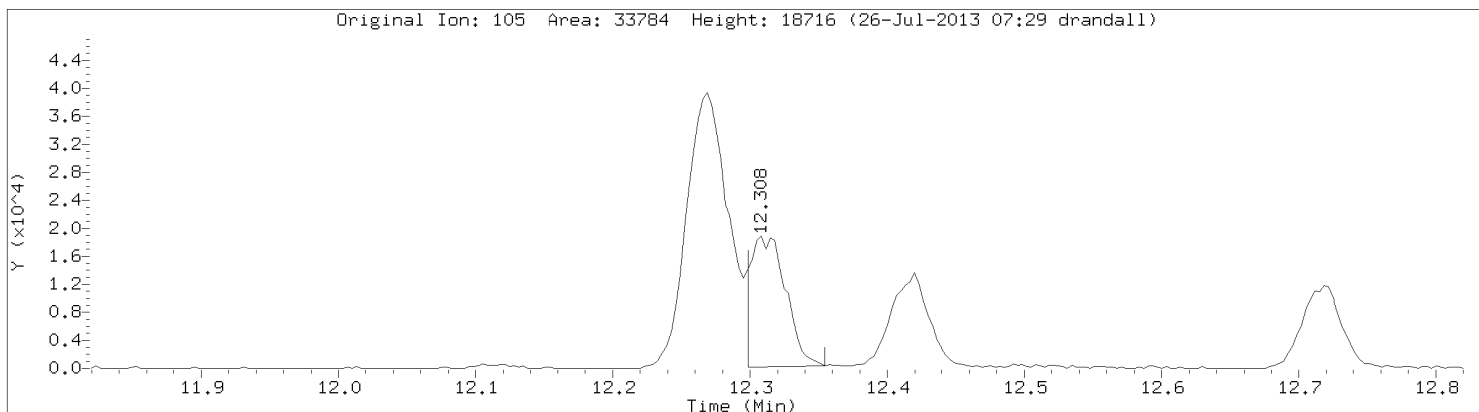
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Injection Date: 25-JUL-2013 21:26
Instrument: 10airD.i
Lab Sample ID: 10236207005

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

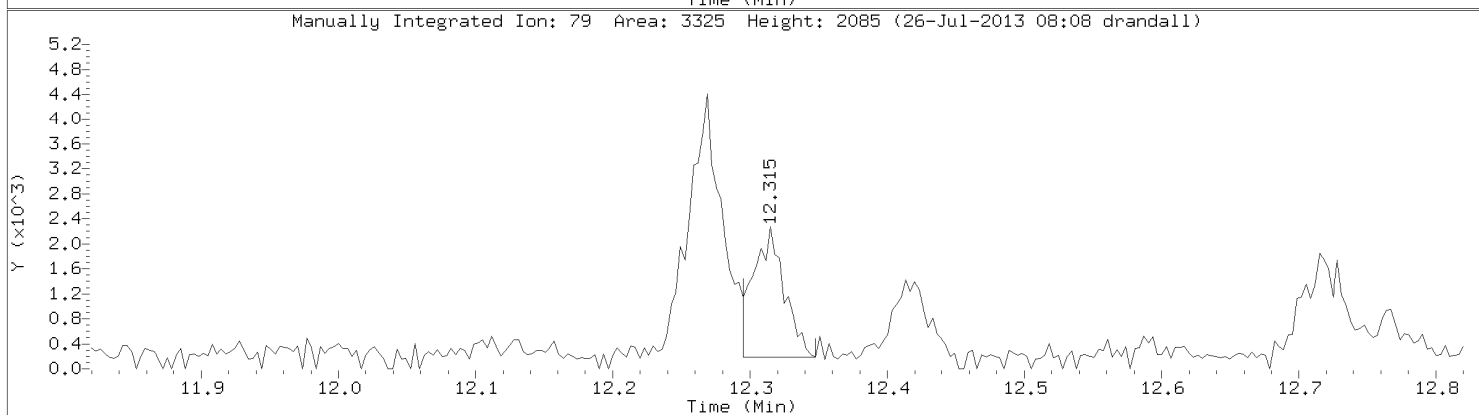
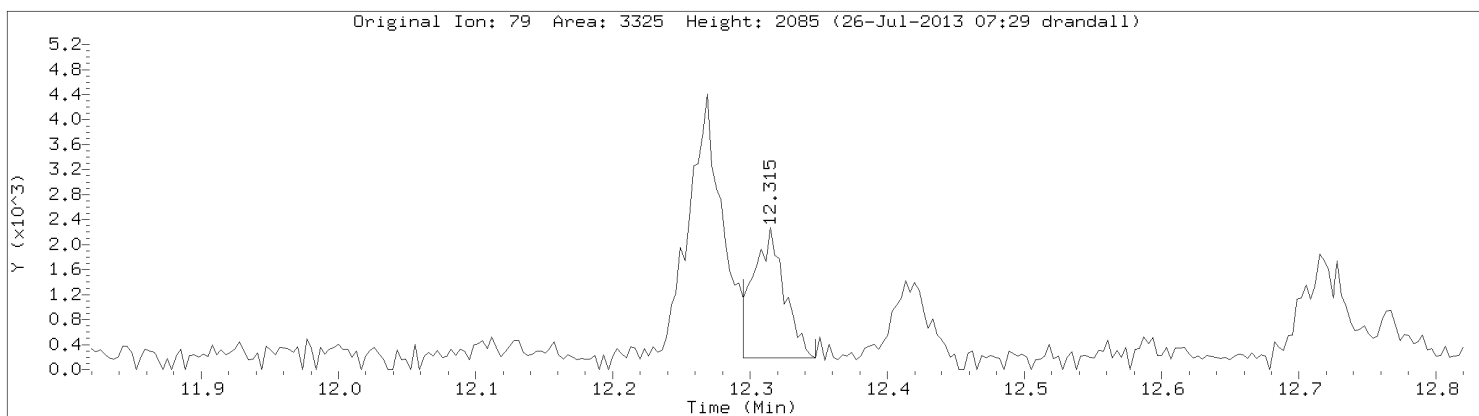


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Injection Date: 25-JUL-2013 21:26
Instrument: 10airD.i
Lab Sample ID: 10236207005

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

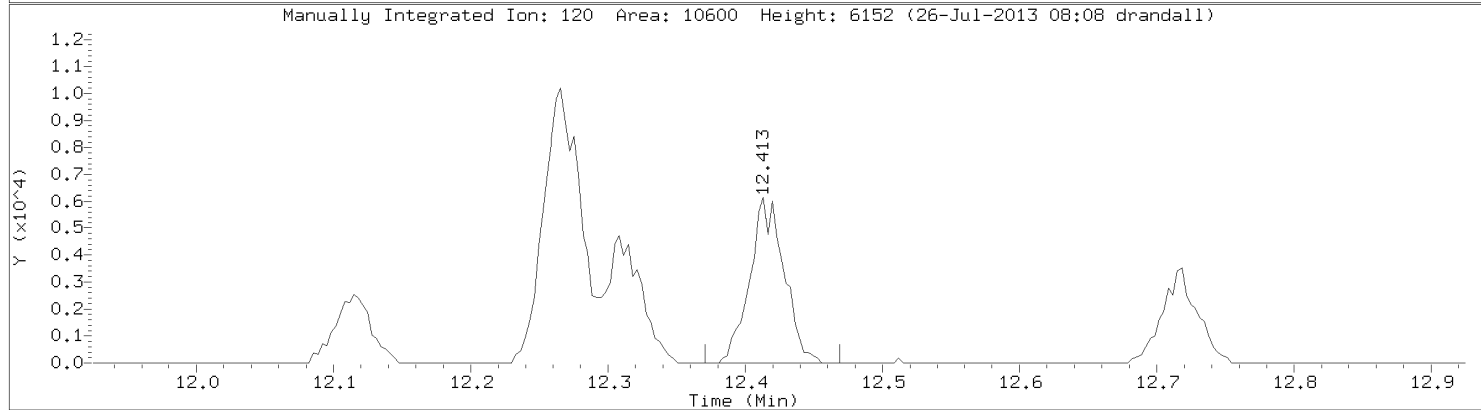
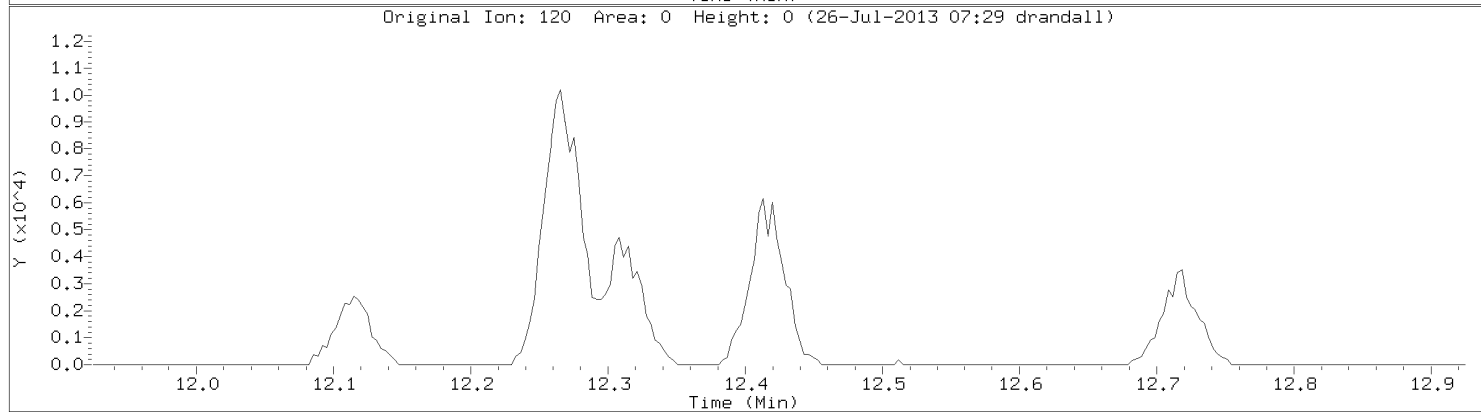
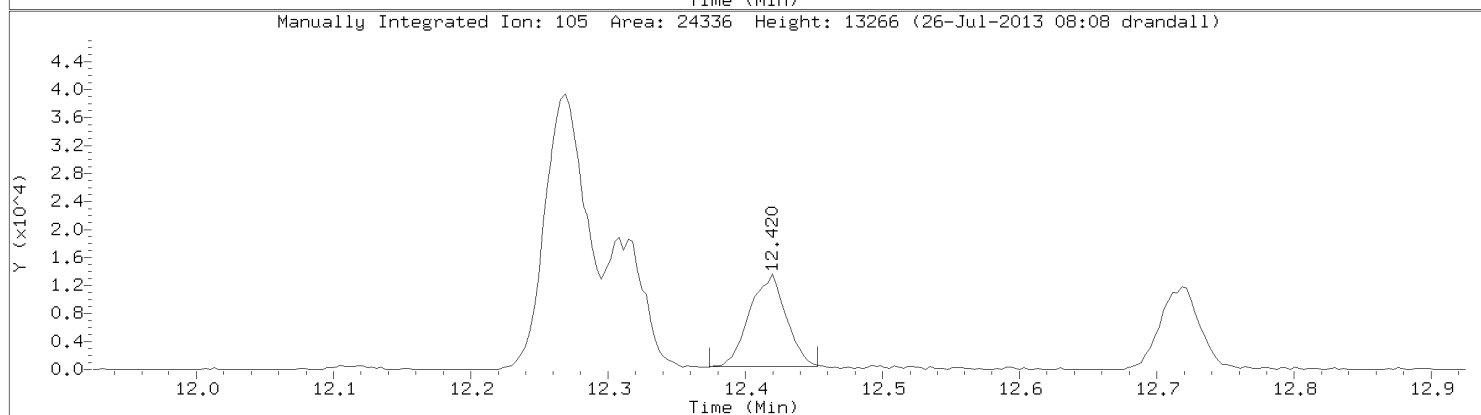
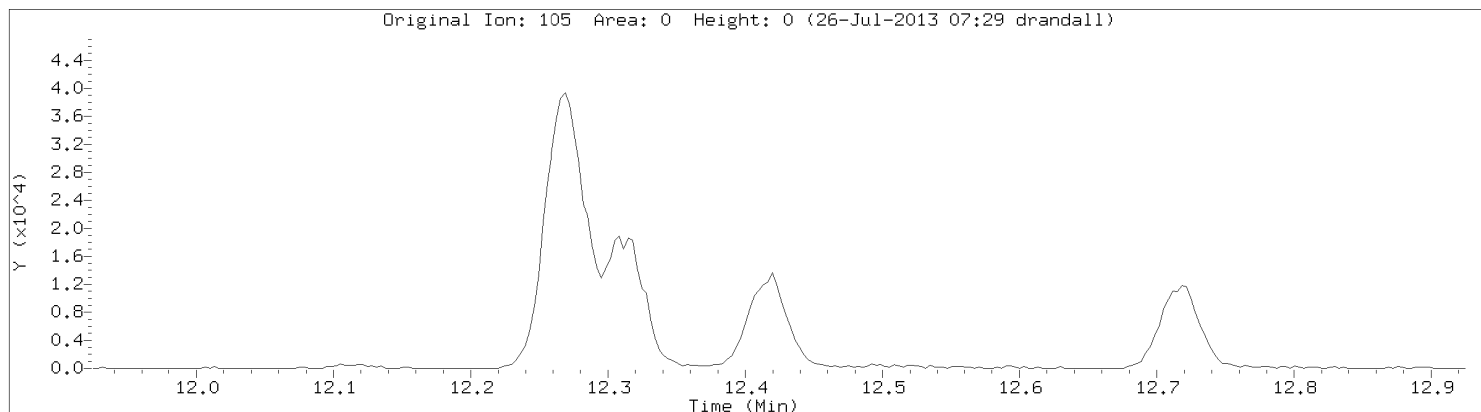


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Injection Date: 25-JUL-2013 21:26
Instrument: 10airD.i
Lab Sample ID: 10236207005



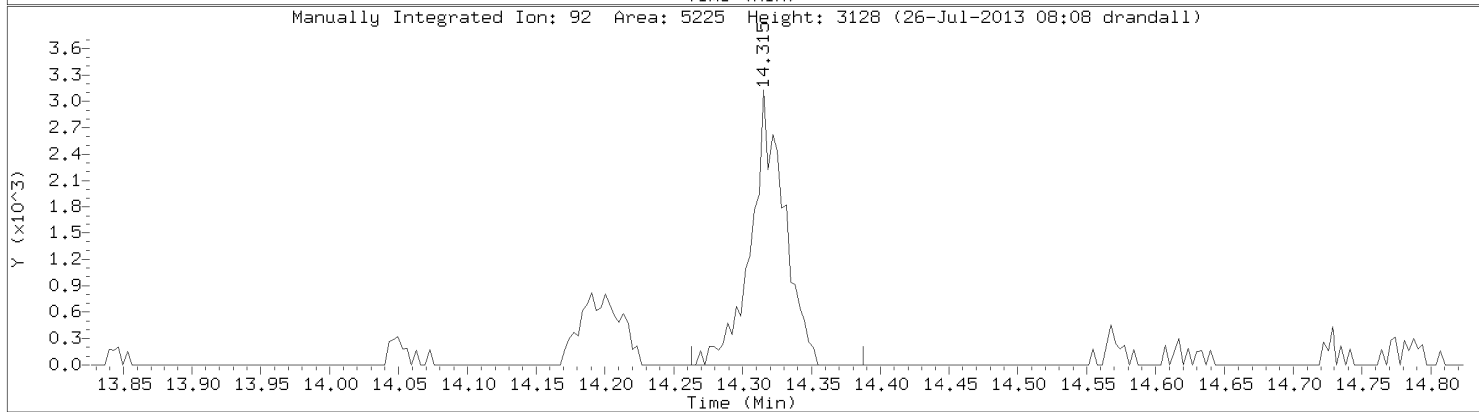
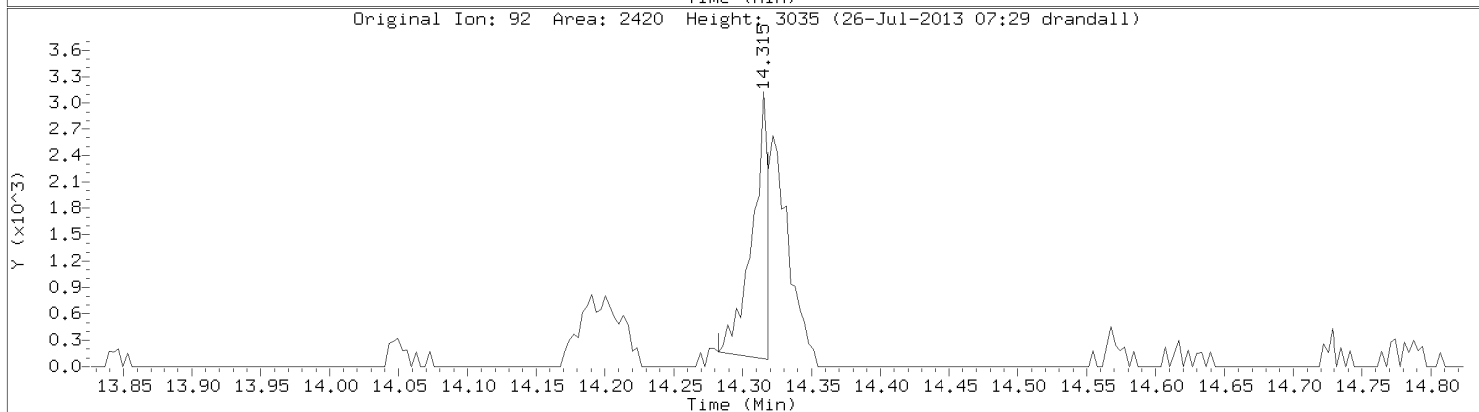
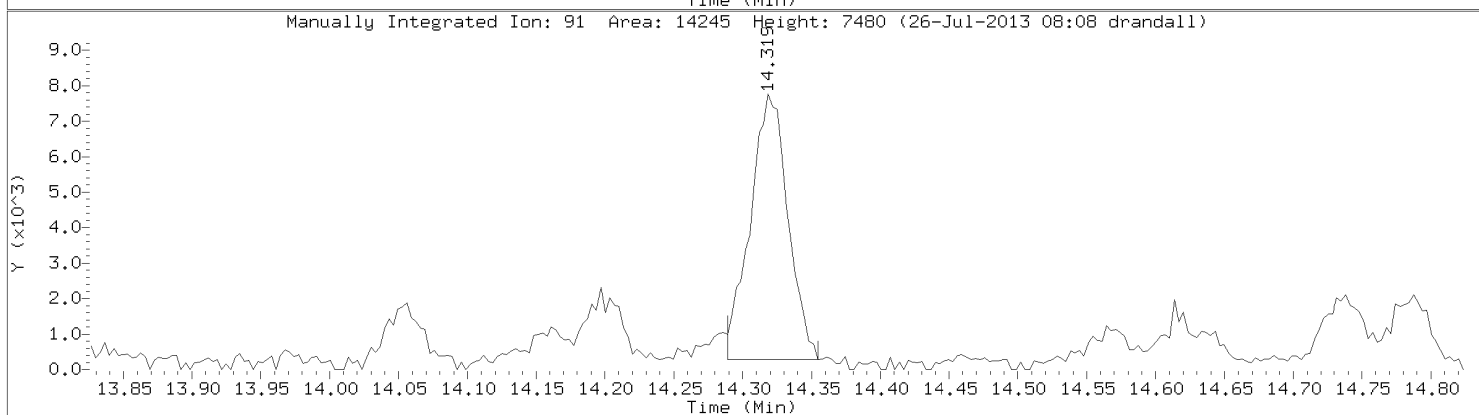
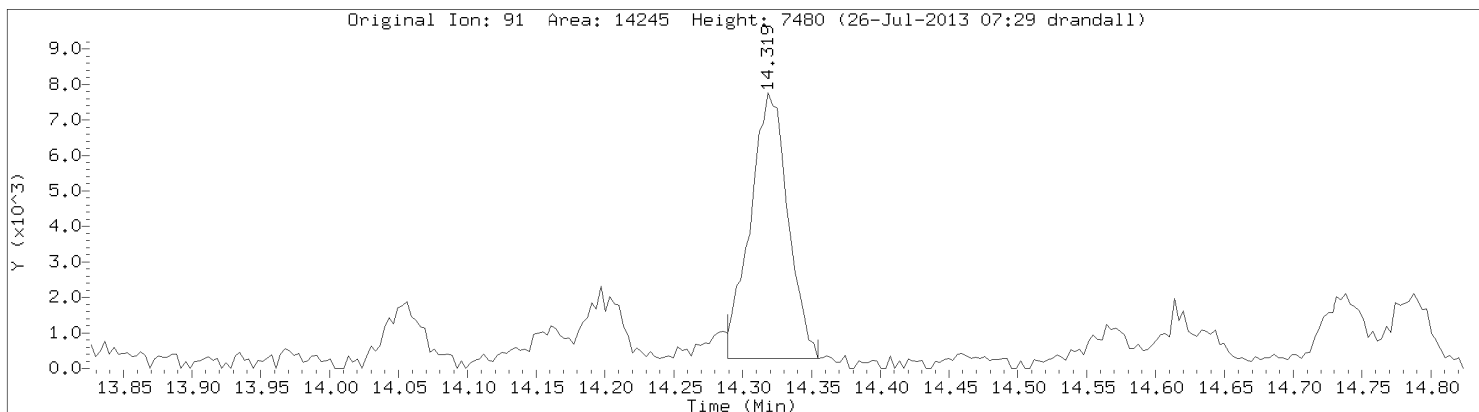
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Injection Date: 25-JUL-2013 21:26
Instrument: 10airD.i
Lab Sample ID: 10236207005

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



Data File: \\192.168.10.12\chem\10airD.i\072513.b\20618.d
Injection Date: 25-JUL-2013 21:26
Instrument: 10airD.i
Lab Sample ID: 10236207005

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



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072513.b\20628.d
 Lab Smp Id: 10236207006
 Inj Date : 26-JUL-2013 02:32
 Operator : DR1 Inst ID: 10airD.i
 Smp Info :
 Misc Info : 17870
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
 Meth Date : 25-Jul-2013 16:57 creindl Quant Type: ISTD
 Cal Date : 24-JUL-2013 16:39 Cal File: 20509.d
 Als bottle: 28
 Dil Factor: 1.44000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10AIRPC4

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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
1 Propylene	41		2.972	2.982	(0.488)	196861	21.0256	30.3
2 Dichlorodifluoromethane	85		2.998	3.008	(0.493)	31419	0.34839	0.502
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		3.493	3.494	(0.574)	74149	6.90150	9.94
10 Vinyl Bromide	106					Compound Not Detected.		
11 Acrolein	56		3.690	3.684	(0.606)	9983	1.52129	2.19 (M)
12 Trichlorofluoromethane	101		3.700	3.694	(0.608)	13325	0.13583	0.196 (M)
13 Acetone	43		3.726	3.726	(0.612)	471527	9.58897	13.8
14 Isopropyl Alcohol	45		3.756	3.756	(0.617)	20544	0.63698	0.917 (Q)
15 1,1-Dichloroethene	61					Compound Not Detected.		
16 Acrylonitrile	53					Compound Not Detected.		
17 Tert Butyl Alcohol	59		3.982	3.989	(0.654)	37750	0.73175	1.05 (M)
18 Freon 113	101					Compound Not Detected.		
19 Methylene chloride	49		4.093	4.094	(0.672)	8003	0.28725	0.414
20 Allyl Chloride	76					Compound Not Detected.		
21 Carbon Disulfide	76		4.224	4.224	(0.694)	22606	0.27883	0.402 (M)
22 trans-1,2-dichloroethene	96					Compound Not Detected.		
23 Methyl Tert Butyl Ether	73					Compound Not Detected.		

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
24 Vinyl Acetate	43		Compound Not Detected.					
25 1,1-Dichloroethane	63		Compound Not Detected.					
\$ 26 Hexane-d14 (S)	66		4.700	4.700	(0.772)	316271	8.82979	8.83
27 Methyl Ethyl Ketone	72		4.772	4.779	(0.784)	33060	2.90389	4.18
28 n-Hexane	57		4.815	4.818	(0.791)	40973	1.25833	1.81 (M)
29 cis-1,2-Dichloroethene	96		Compound Not Detected.					
30 Ethyl Acetate	43		4.995	4.999	(0.821)	45122	1.46990	2.12 (QM)
31 Chloroform	83		Compound Not Detected.					
32 Tetrahydrofuran	42		Compound Not Detected.					
33 1,1,1-Trichloroethane	97		Compound Not Detected.					
34 1,2-Dichloroethane	62		Compound Not Detected.					
35 Benzene	78		5.881	5.887	(0.966)	192528	3.16727	4.56
36 Carbon tetrachloride	117		Compound Not Detected.					
37 Cyclohexane	56		5.913	5.910	(0.971)	7800	0.75739	1.09 (QM)
* 38 1,4-Difluorobenzene	114		6.087	6.094	(1.000)	741750	10.0000	
39 2,2,4-Trimethylpentane	57		6.267	6.271	(1.030)	11464	0.53917	0.776 (QM)
40 Heptane	43		6.431	6.442	(1.057)	13863	0.96788	1.39 (M)
41 1,2-Dichloropropane	63		Compound Not Detected.					
42 Trichloroethene	130		Compound Not Detected.					
43 1,4-Dioxane	88		Compound Not Detected.					
44 Bromodichloromethane	83		Compound Not Detected.					
45 Methyl Isobutyl Ketone	43		7.228	7.229	(1.187)	8882	0.62825	0.905 (M)
46 cis-1,3-Dichloropropene	75		Compound Not Detected.					
47 trans-1,3-Dichloropropene	75		Compound Not Detected.					
\$ 48 Toluene-d8 (S)	98		7.838	7.848	(1.288)	544110	10.5033	10.5
49 Toluene	91		7.930	7.940	(1.303)	359177	4.37339	6.30
50 1,1,2-Trichloroethane	97		Compound Not Detected.					
51 Methyl Butyl Ketone	43		8.245	8.244	(0.851)	8484	0.55191	0.795
52 Dibromochloromethane	129		Compound Not Detected.					
53 1,2-Dibromoethane	107		Compound Not Detected.					
54 Tetrachloroethene	166		8.907	8.918	(0.920)	9759	0.58779	0.846
* 55 Chlorobenzene - d5	117		9.685	9.691	(1.000)	293286	10.0000	
56 Chlorobenzene	112		Compound Not Detected.					
57 Ethyl Benzene	91		10.032	10.039	(1.036)	100853	1.18572	1.71
58 m&p-Xylene	91		10.199	10.213	(1.053)	308902	3.64525	5.25
59 Bromoform	173		Compound Not Detected.					
60 Styrene	104		10.701	10.708	(1.105)	13872	0.69633	1.00
61 o-Xylene	91		10.773	10.783	(1.112)	98445	1.23436	1.78
62 1,1,2,2-Tetrachloroethane	83		Compound Not Detected.					
63 Isopropylbenzene	105		Compound Not Detected.					
64 N-Propylbenzene	91		12.114	12.121	(1.251)	28146	0.49656	0.715 (M)
65 4-Ethyltoluene	105		12.311	12.321	(1.271)	44221	0.72701	1.05 (M)
66 1,3,5-Trimethylbenzene	105		12.416	12.426	(1.282)	35870	0.66567	0.958
67 1,2,4-Trimethylbenzene	105		13.013	13.020	(1.344)	152466	1.98766	2.86
68 1,3-Dichlorobenzene	146		Compound Not Detected.					
69 Sec- Butylbenzene	105		Compound Not Detected.					
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.449	13.459	(1.389)	111080	9.38306	9.38
71 Benzyl Chloride	91		Compound Not Detected.					
72 1,4-Dichlorobenzene	146		Compound Not Detected.					
73 1,2-Dichlorobenzene	146		Compound Not Detected.					
74 N-Butylbenzene	91		Compound Not Detected.					
75 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
76 Naphthalene	128		16.860	16.860	(1.741)	47583	1.40587	2.02
77 Hexachlorobutadiene	225		Compound Not Detected.					

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20628.d
Report Date: 26-Jul-2013 08:29

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
	MASS					ON-COLUMN	FINAL
=====	====	====	=====	=====	=====	(ppbv)	(ppbv)

QC Flag Legend

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

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20628.d
 Report Date: 26-Jul-2013 08:29

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 10airD.i
 Lab File ID: 20628.d
 Lab Smp Id: 10236207006
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: DR1
 Method File: \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
 Misc Info: 17870

Calibration Date: 25-JUL-2013
 Calibration Time: 13:08

Level: LOW
 Sample Type: AIR

Test Mode:

Use Initial Calibration Level 4.
 If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	741750	27.94
55 Chlorobenzene - d	221404	132842	309966	293286	32.47

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	-0.05
55 Chlorobenzene - d	9.69	9.36	10.02	9.69	-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\072513.b\20628.D

Date : 26-JUL-2013 02:32

Client ID:

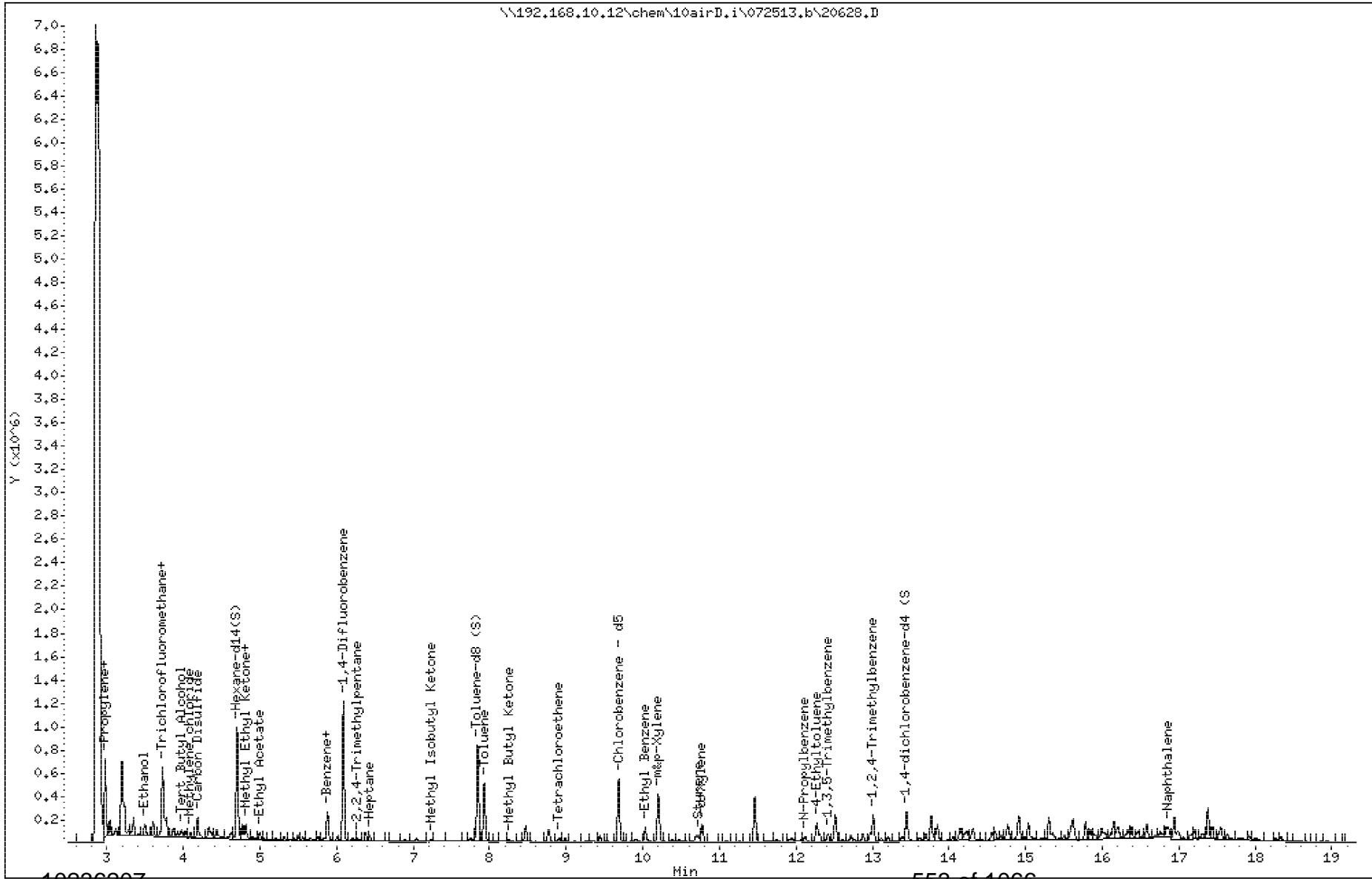
Instrument: 10airD.i

Sample Info:

Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20628.D

Date : 26-JUL-2013 02:32

Client ID:

Instrument: 10airD.i

Sample Info:

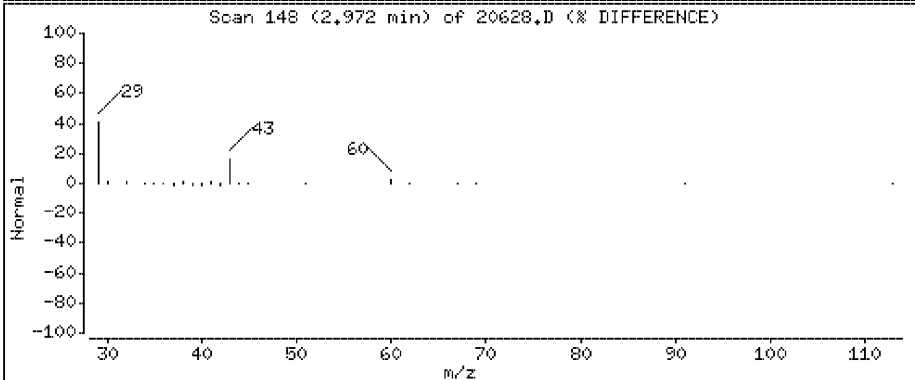
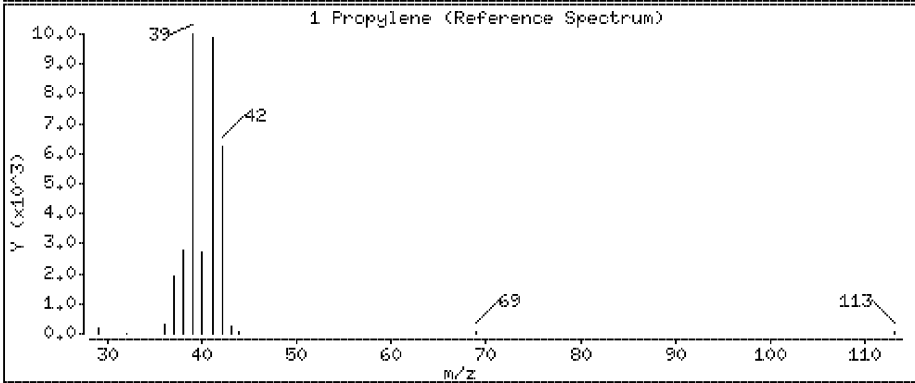
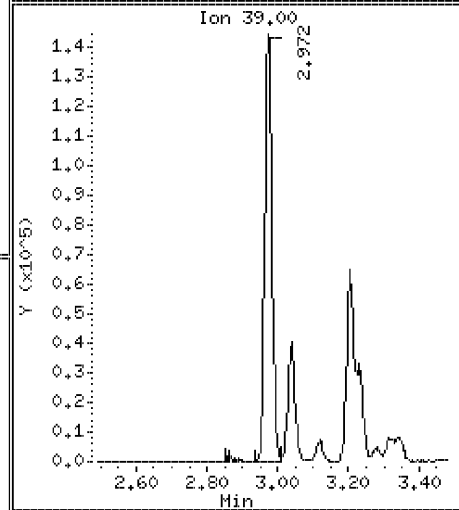
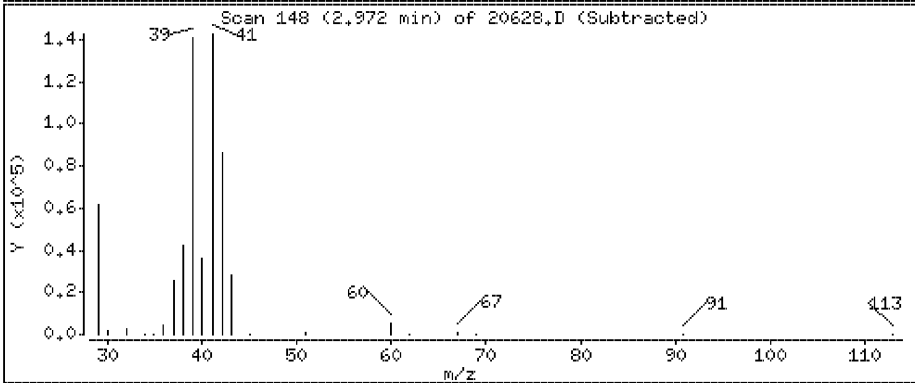
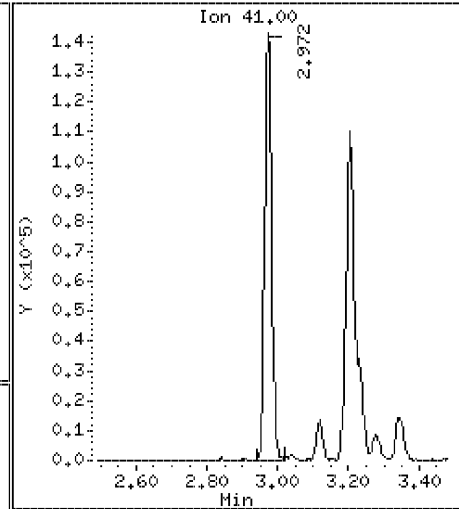
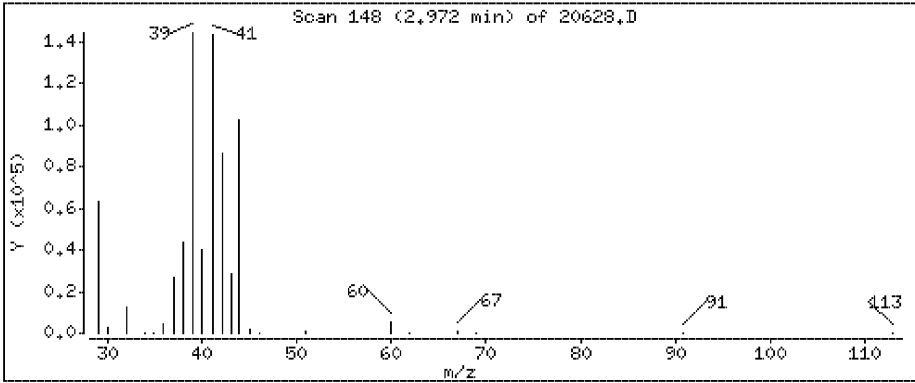
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

1 Propylene

Concentration: 30,3 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20628.D

Date : 26-JUL-2013 02:32

Client ID:

Instrument: 10airD.i

Sample Info:

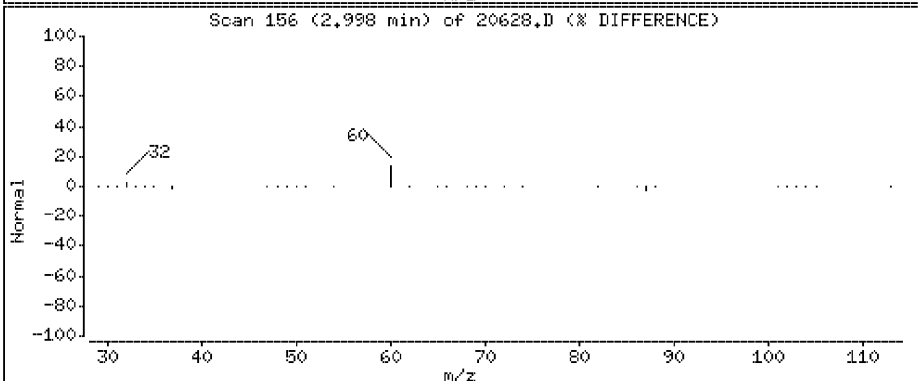
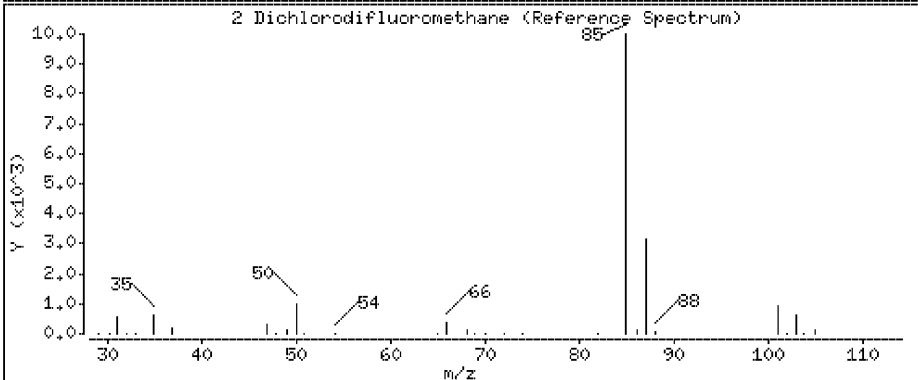
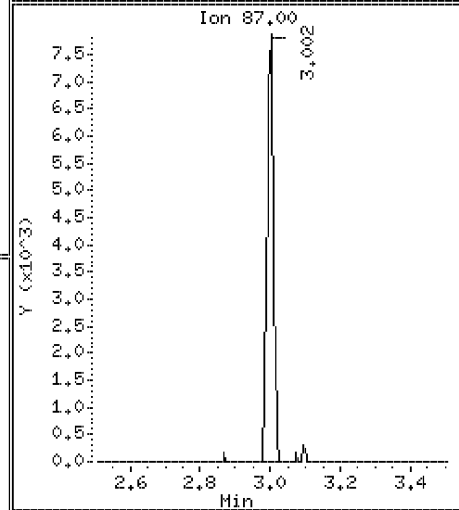
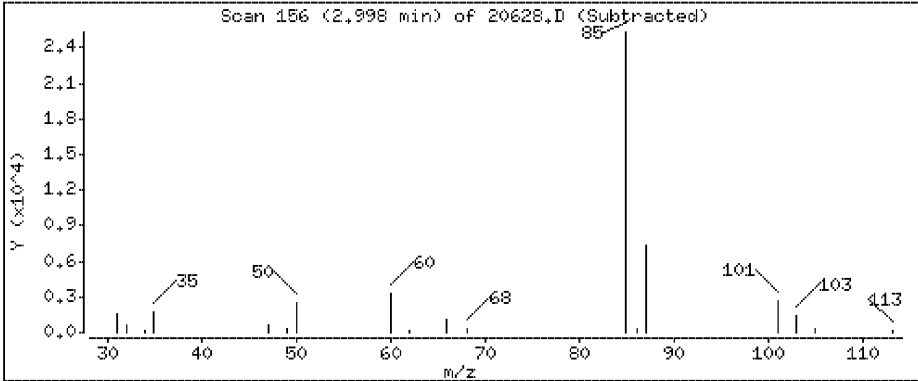
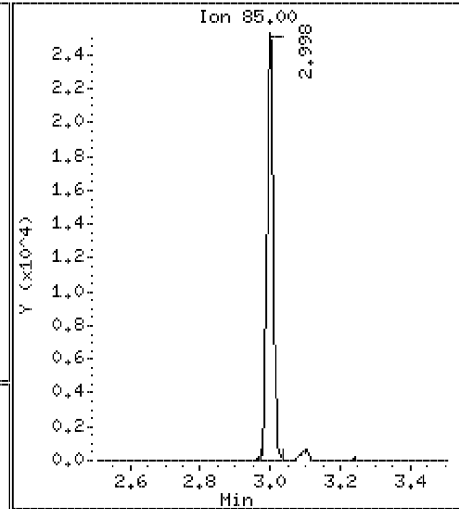
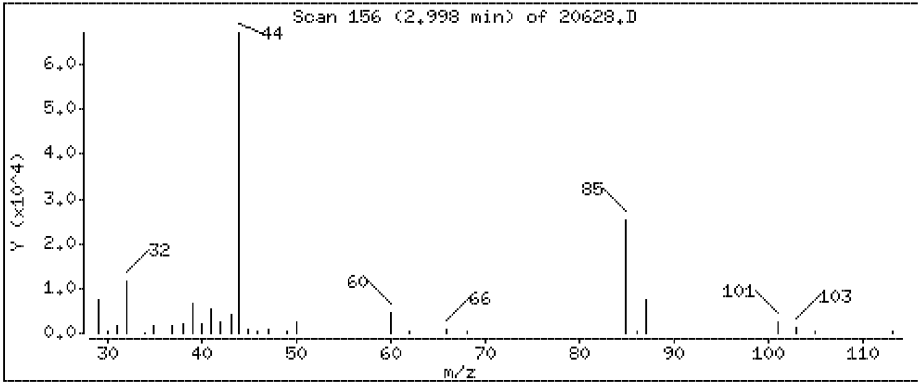
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

2 Dichlorodifluoromethane

Concentration: 0.502 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20628.D

Date : 26-JUL-2013 02:32

Client ID:

Instrument: 10airD.i

Sample Info:

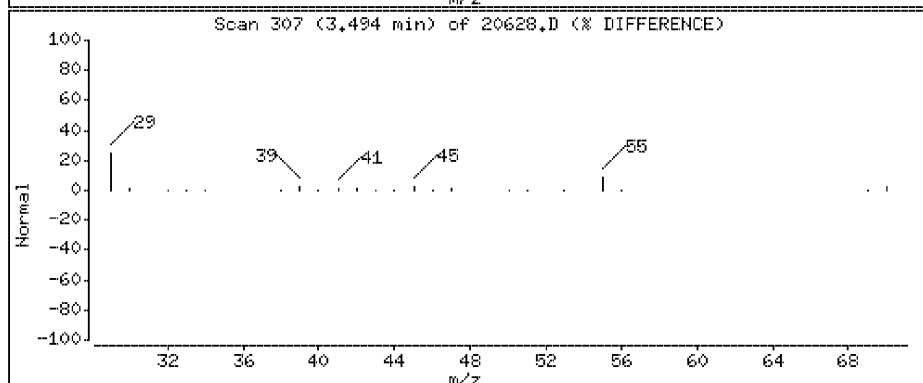
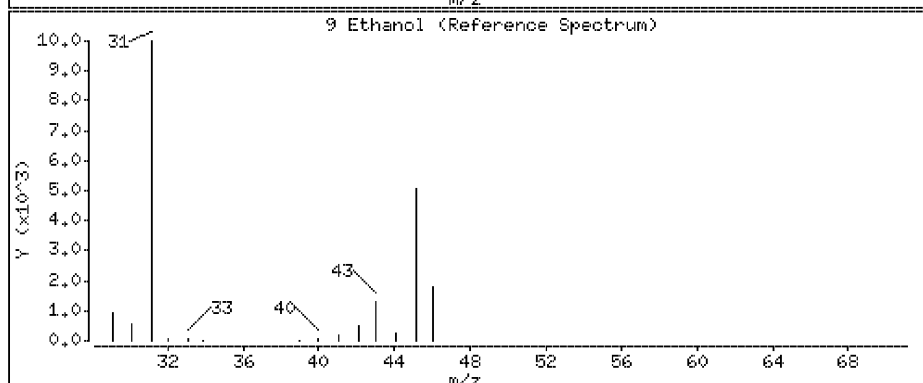
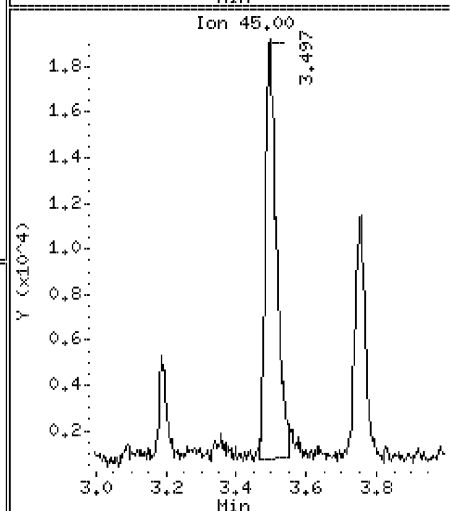
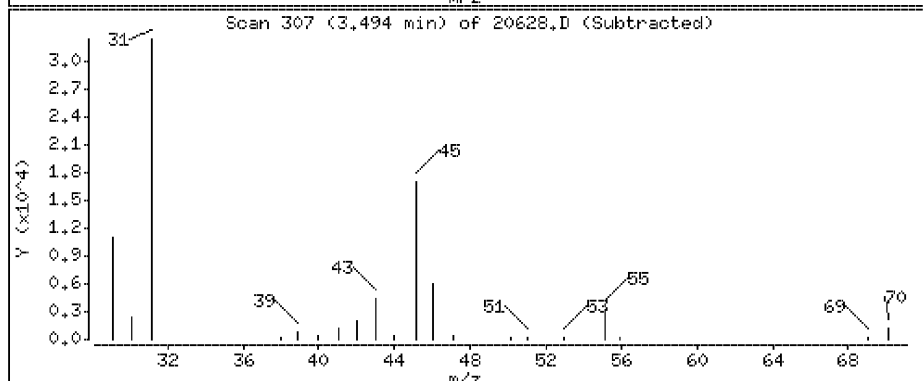
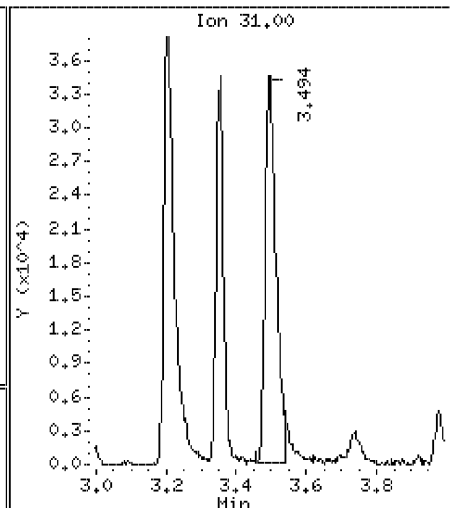
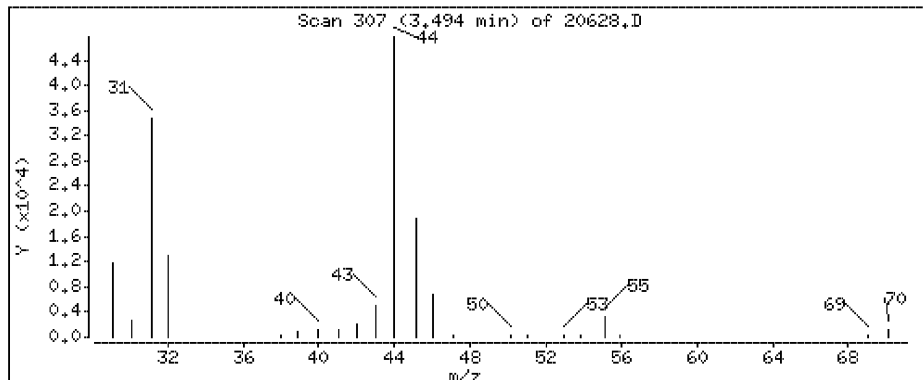
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

9 Ethanol

Concentration: 9.94 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20628.D

Date : 26-JUL-2013 02:32

Client ID:

Instrument: 10airD.i

Sample Info:

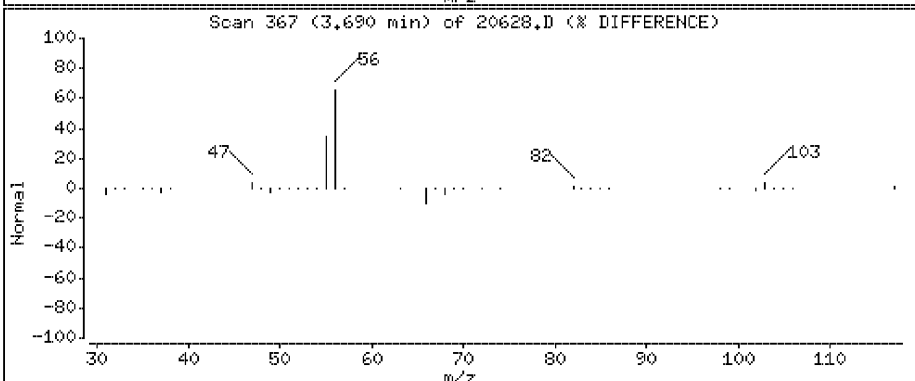
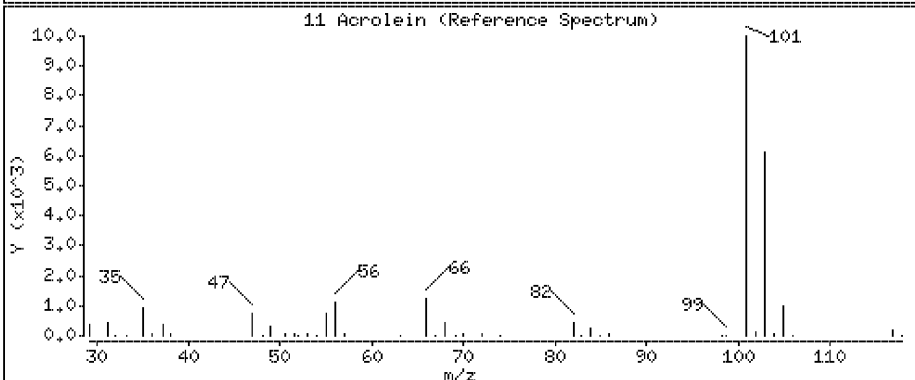
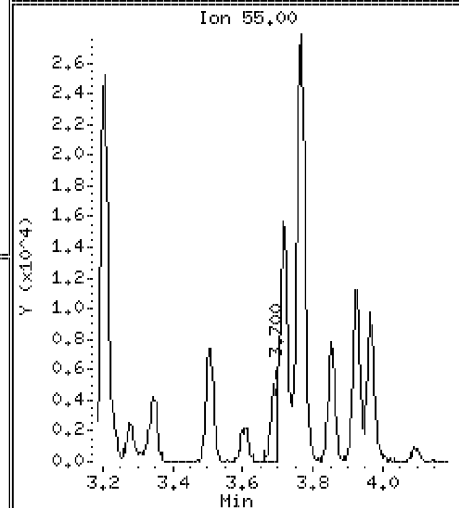
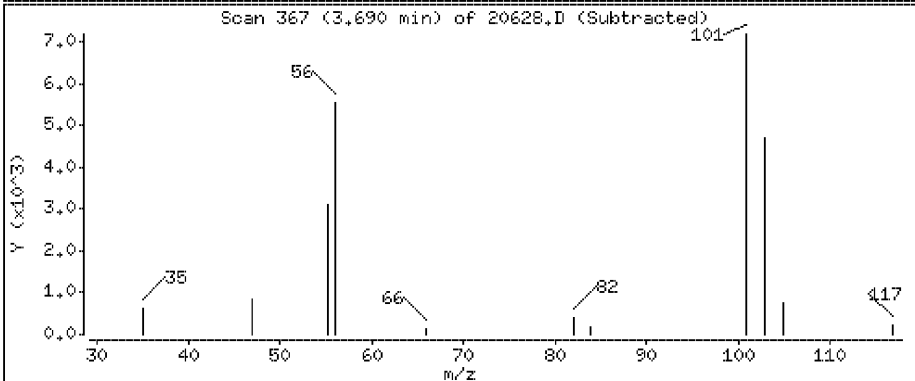
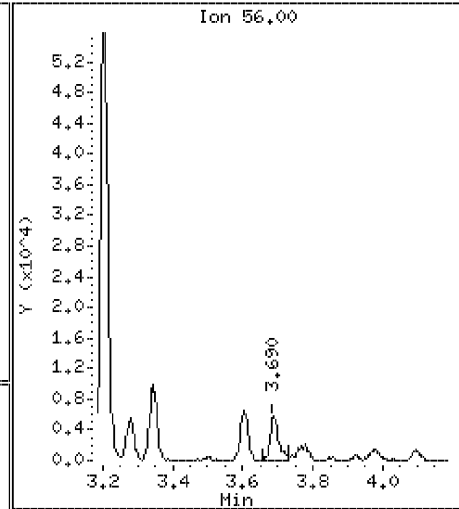
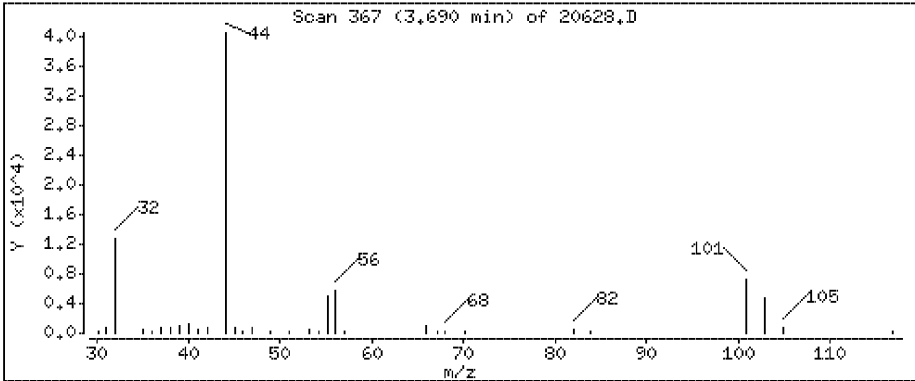
Operator: DR1

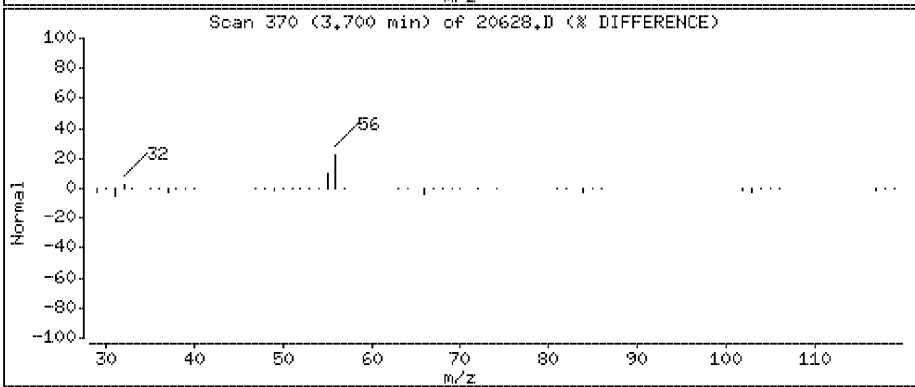
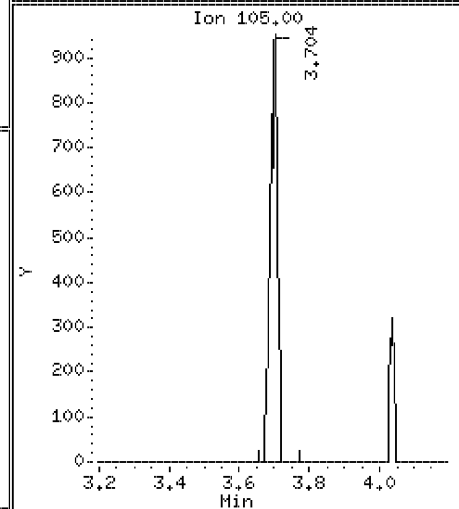
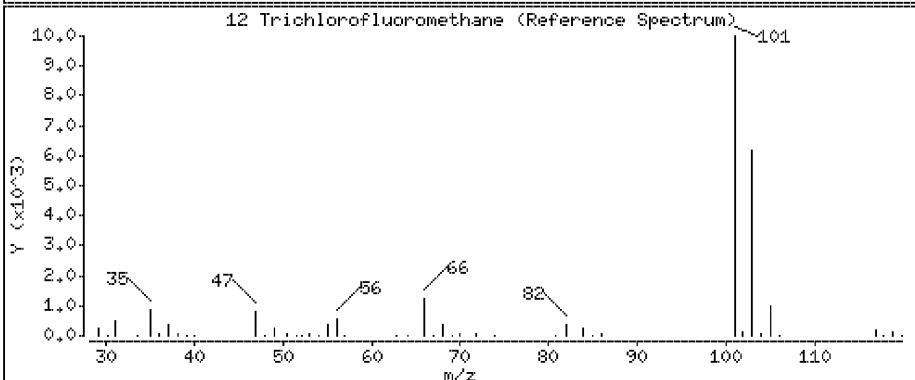
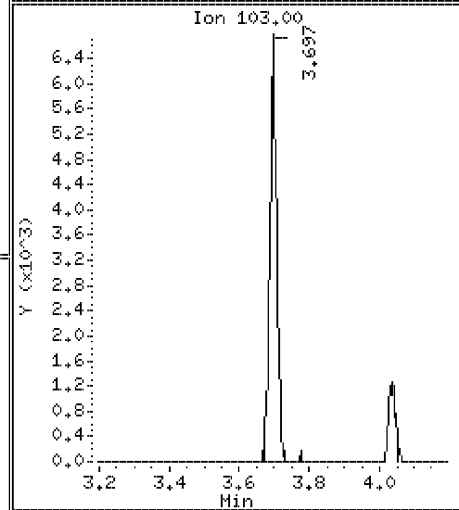
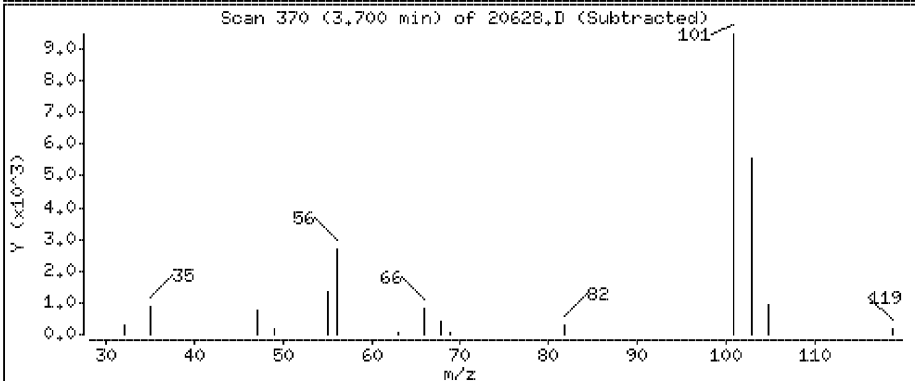
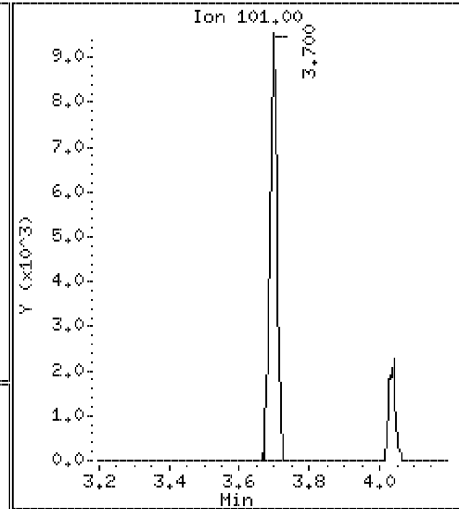
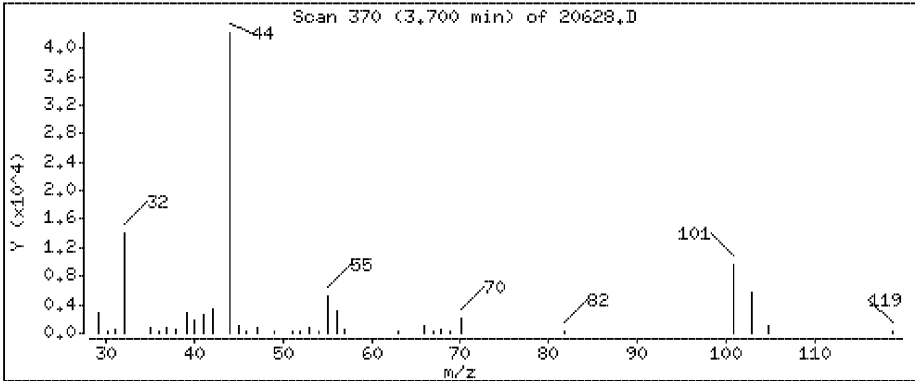
Column phase: J&W DB-5

Column diameter: 0.32

11 Acrolein

Concentration: 2.19 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20628.D

Date : 26-JUL-2013 02:32

Client ID:

Instrument: 10airD.i

Sample Info:

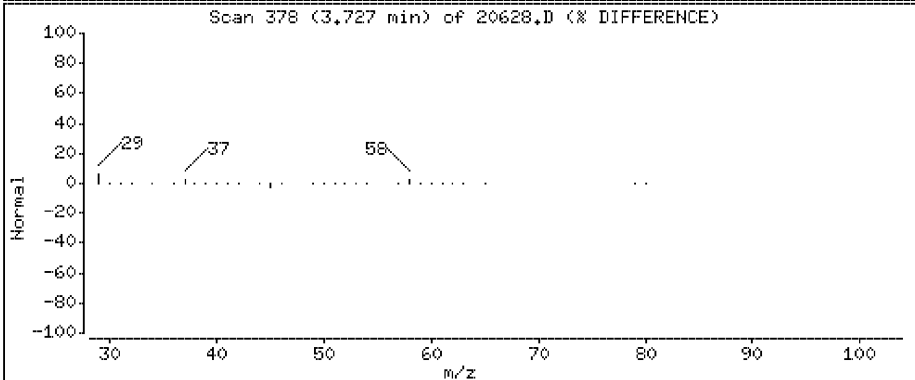
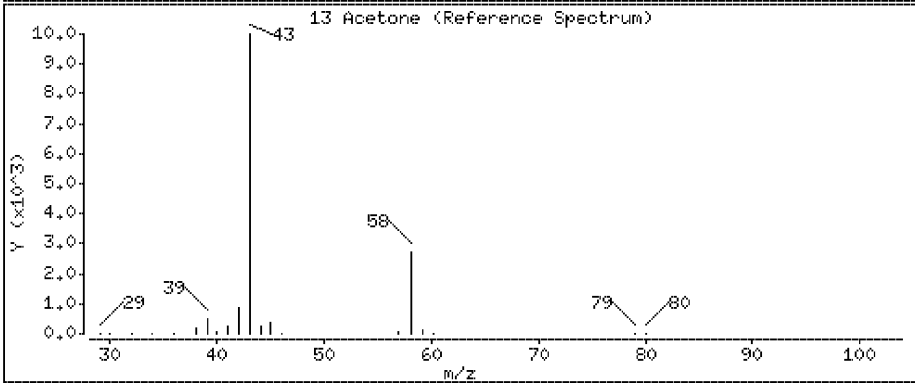
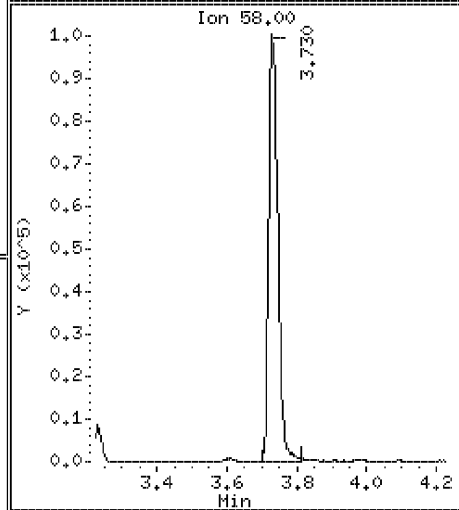
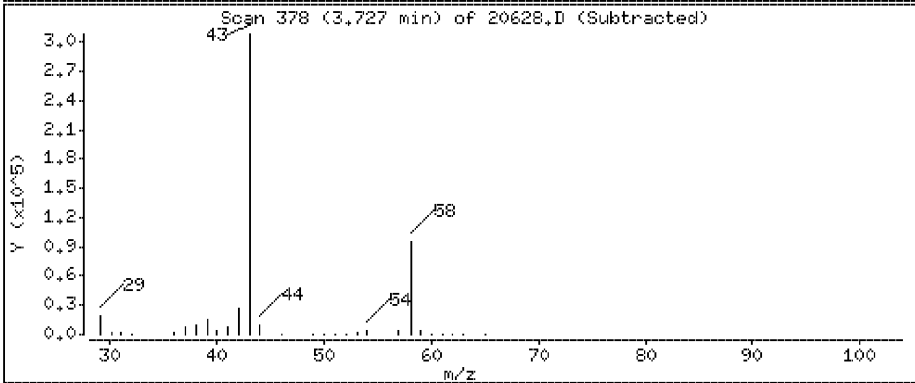
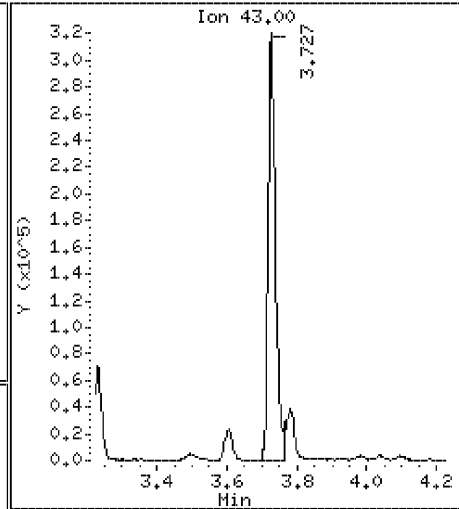
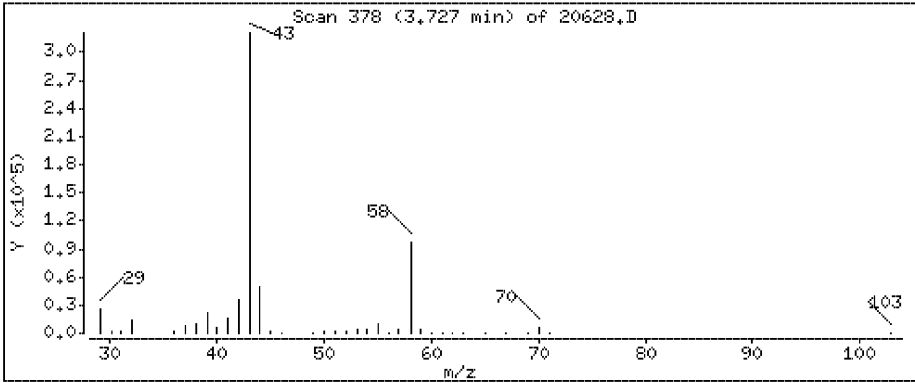
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

13 Acetone

Concentration: 13.8 ppbv



Data File: \\192.168.10.12\chem\10airD,i\072513,b\20628.D

Date : 26-JUL-2013 02:32

Client ID:

Instrument: 10airD,i

Sample Info:

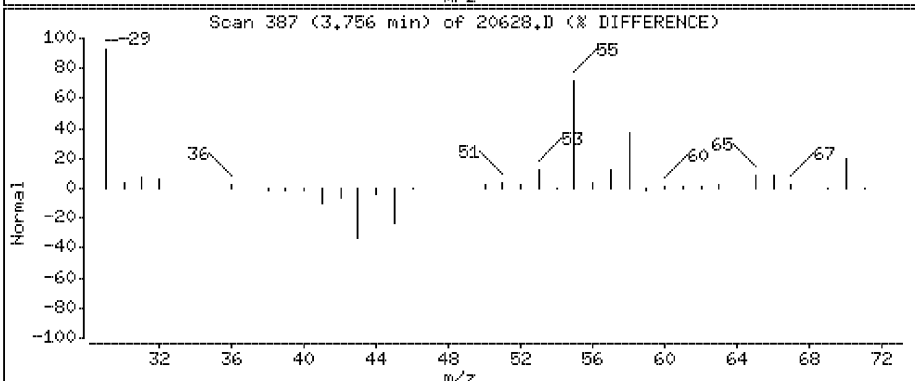
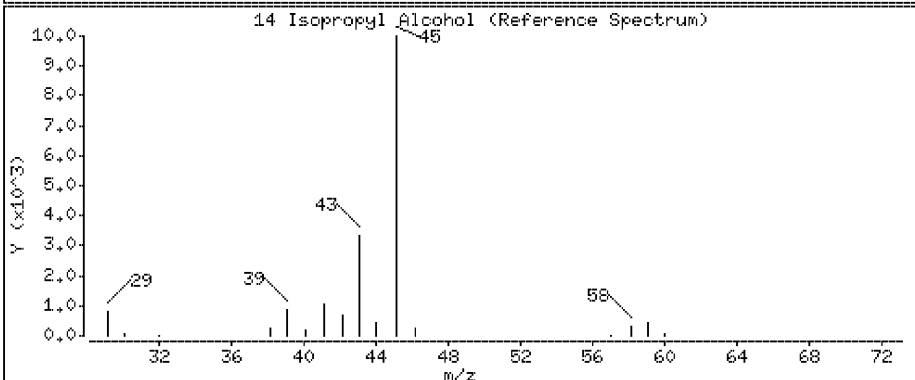
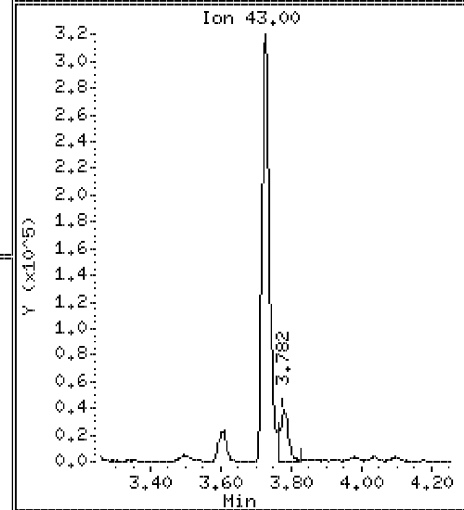
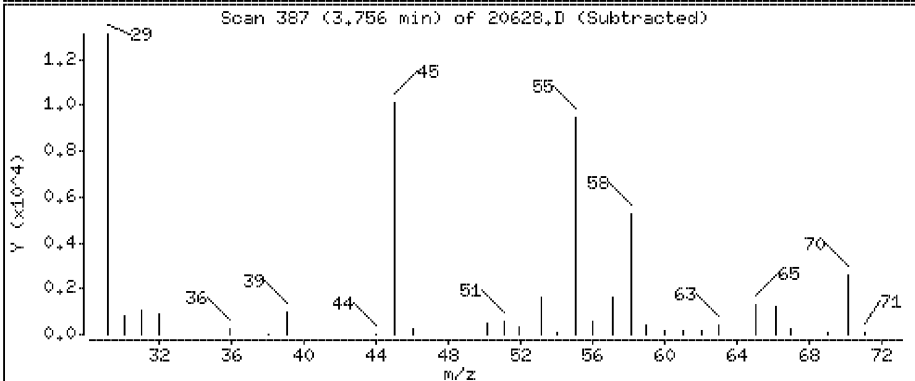
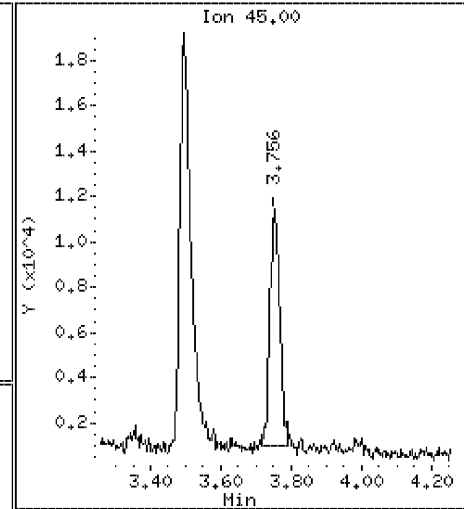
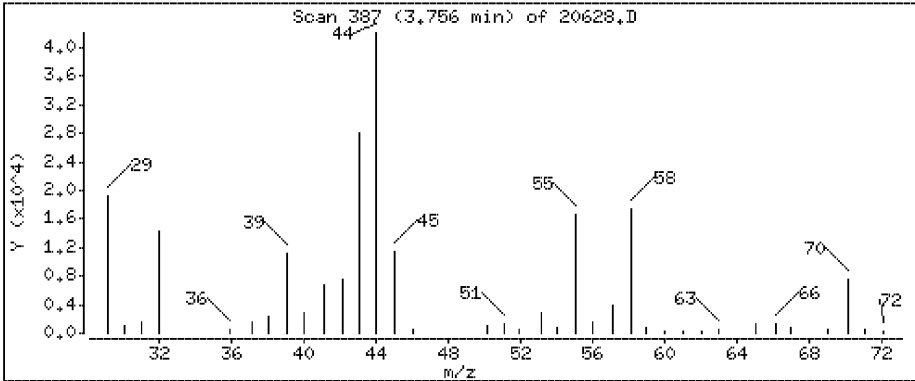
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

14 Isopropyl Alcohol

Concentration: 0,917 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20628.D

Date : 26-JUL-2013 02:32

Client ID:

Instrument: 10airD.i

Sample Info:

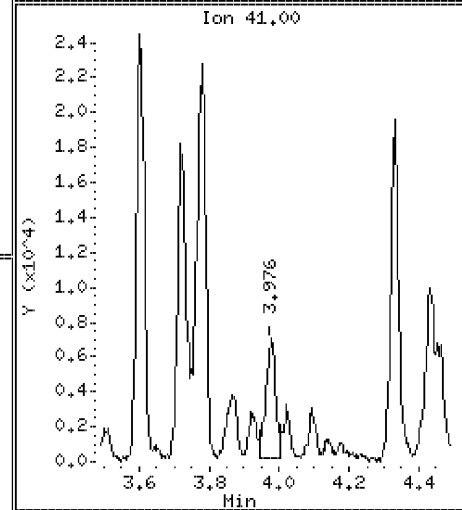
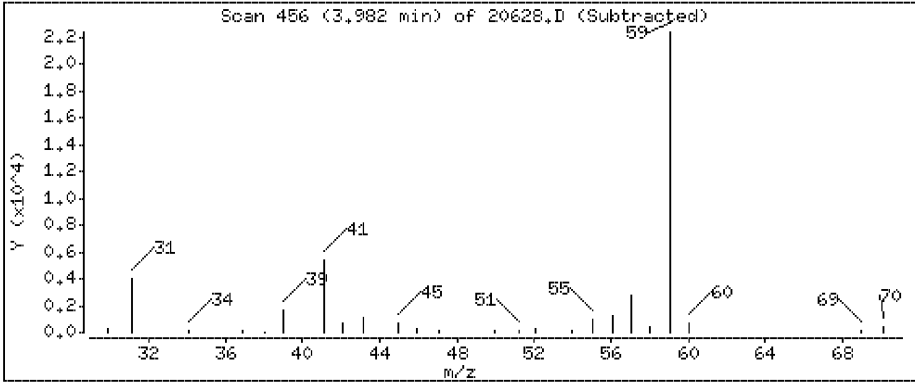
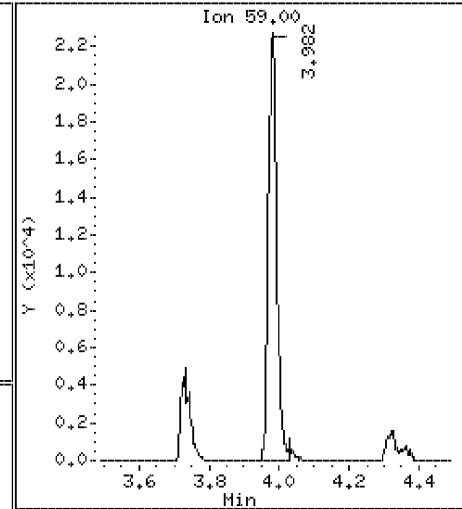
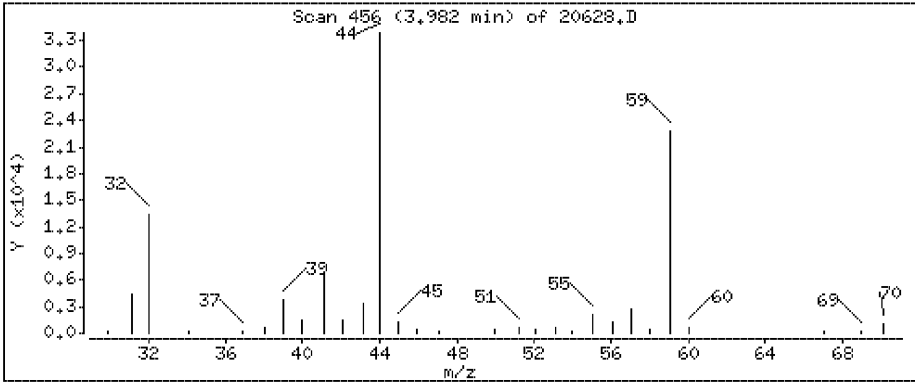
Operator: DR1

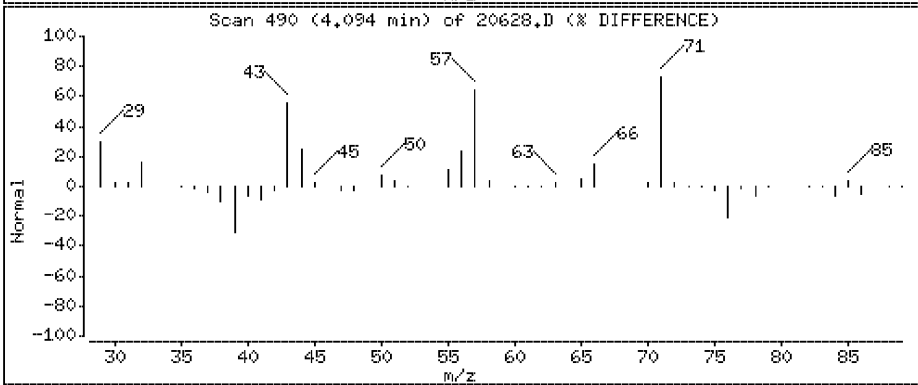
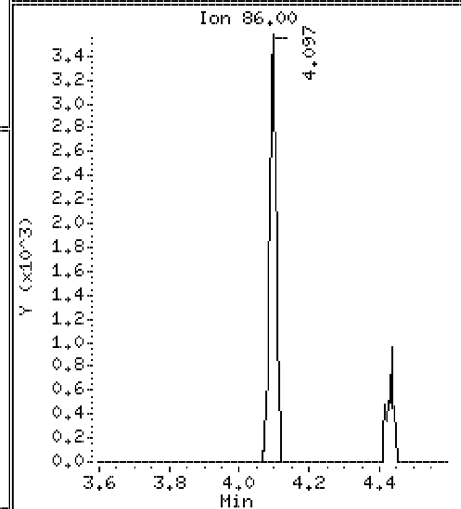
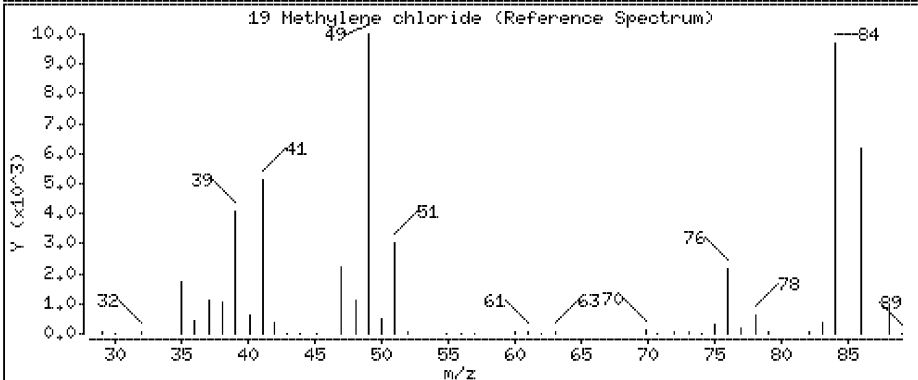
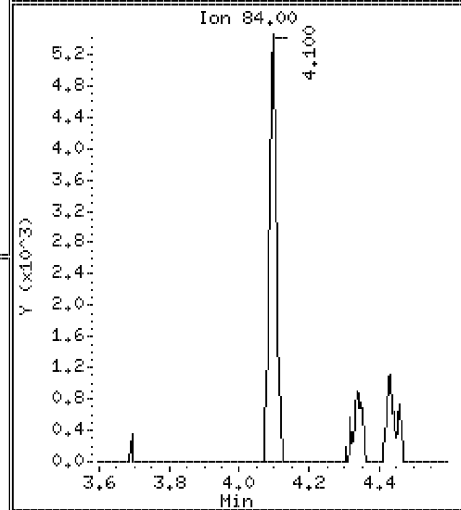
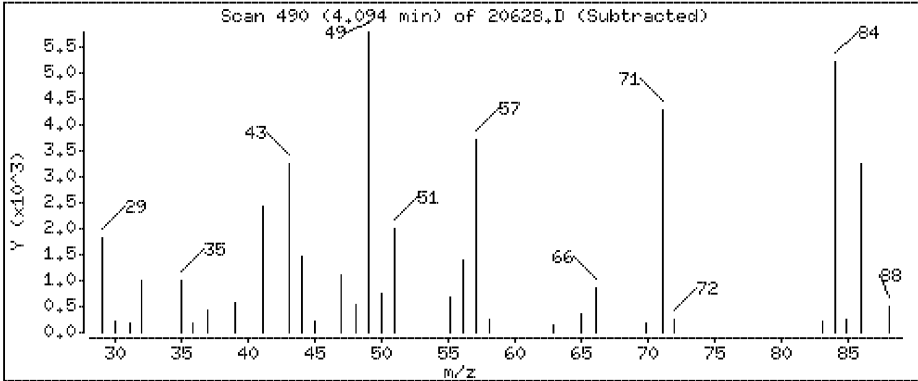
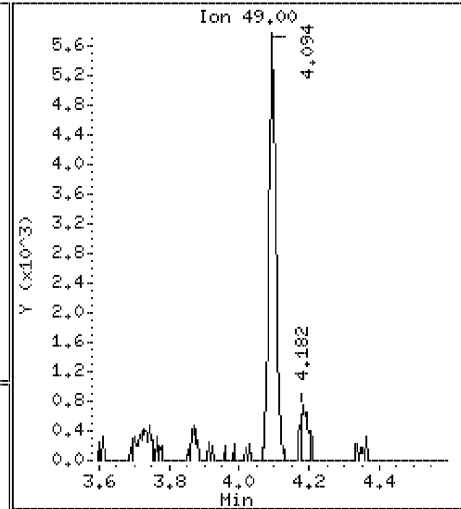
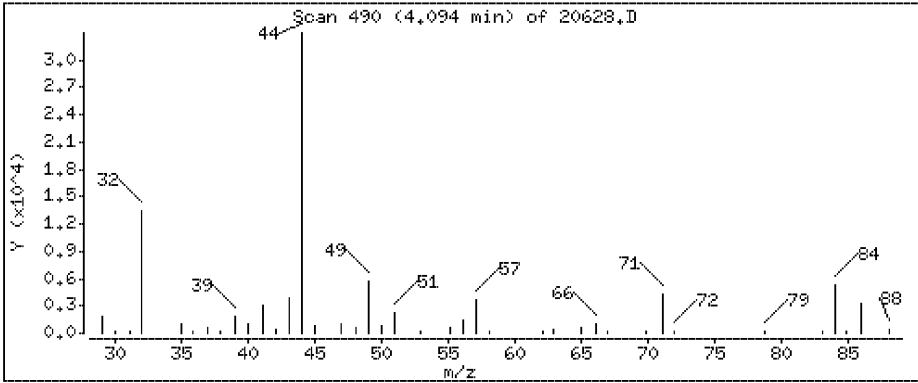
Column phase: J&W DB-5

Column diameter: 0.32

17 Tert Butyl Alcohol

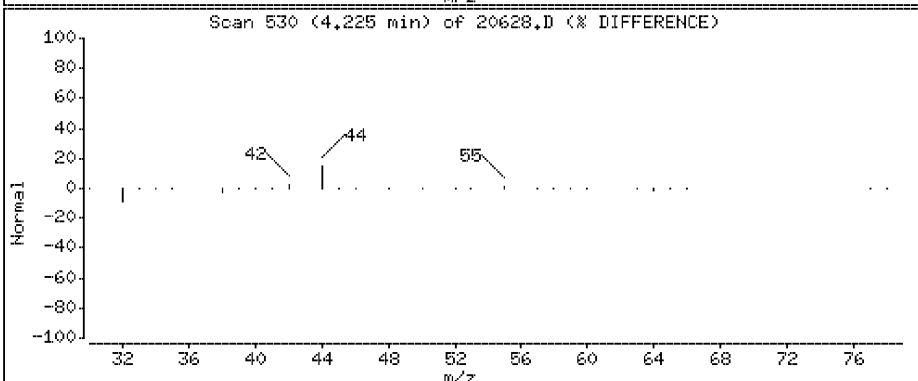
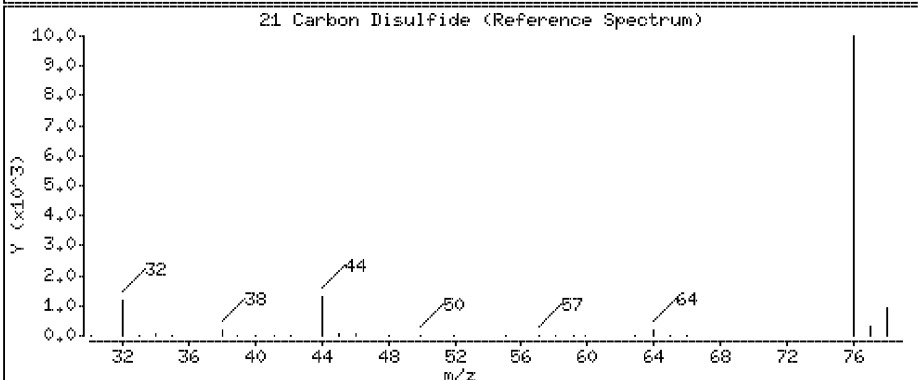
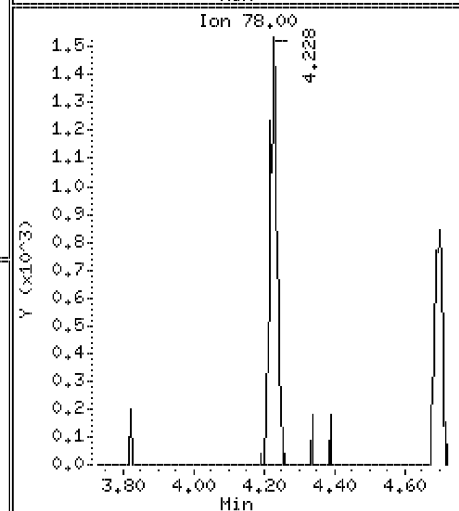
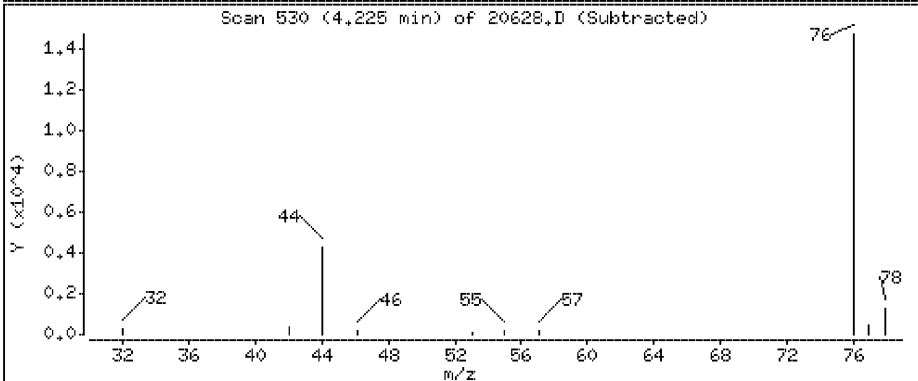
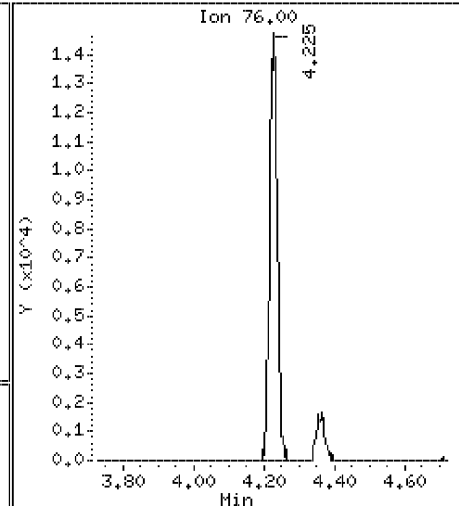
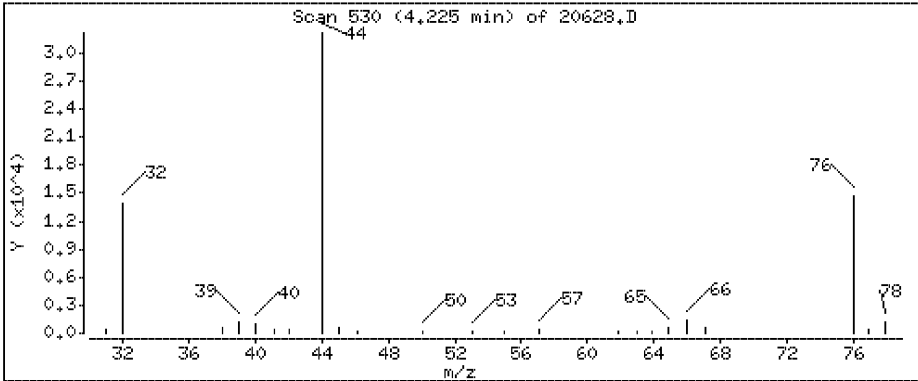
Concentration: 1.05 ppbv





21 Carbon Disulfide

Concentration: 0.402 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20628.D

Date : 26-JUL-2013 02:32

Client ID:

Instrument: 10airD.i

Sample Info:

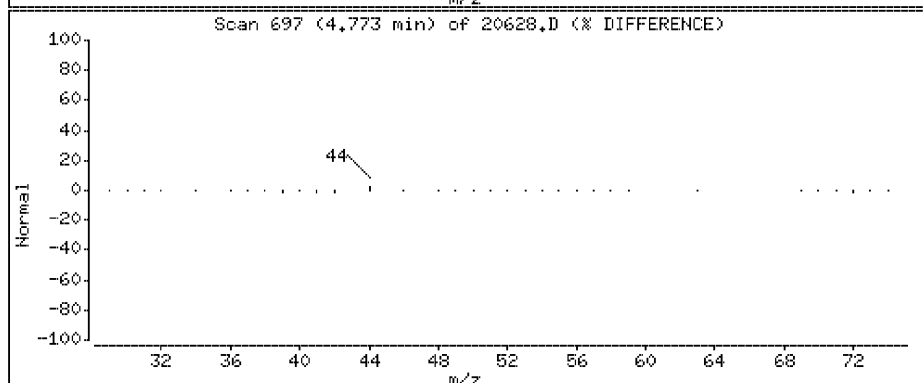
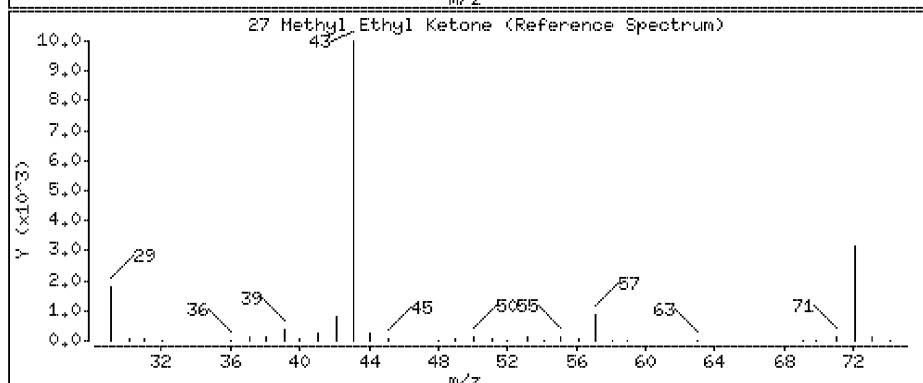
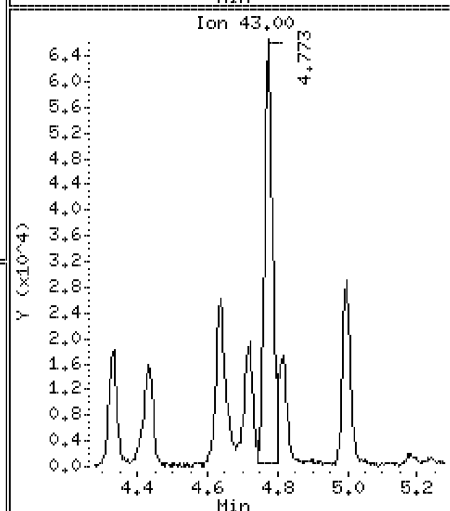
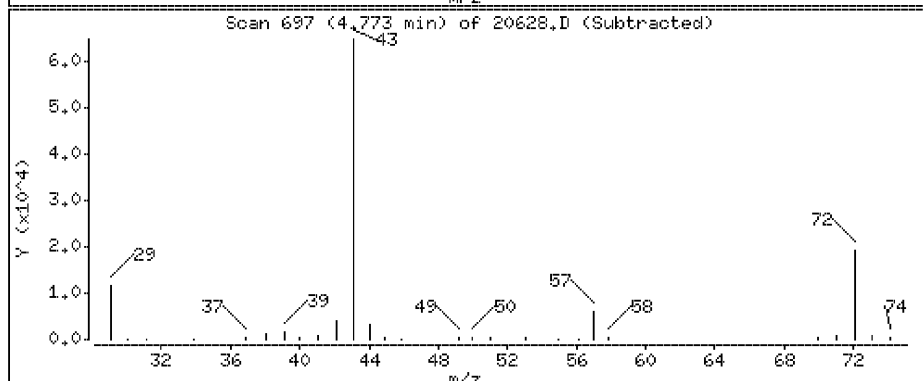
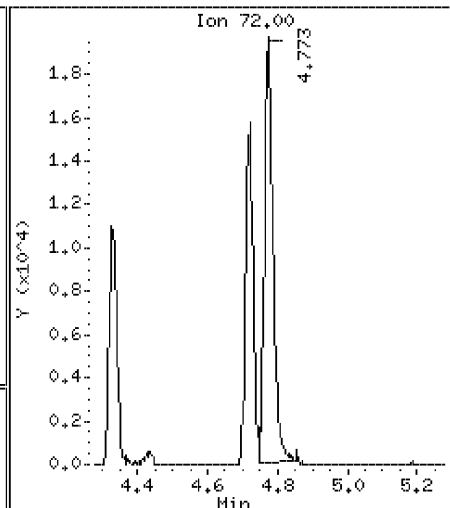
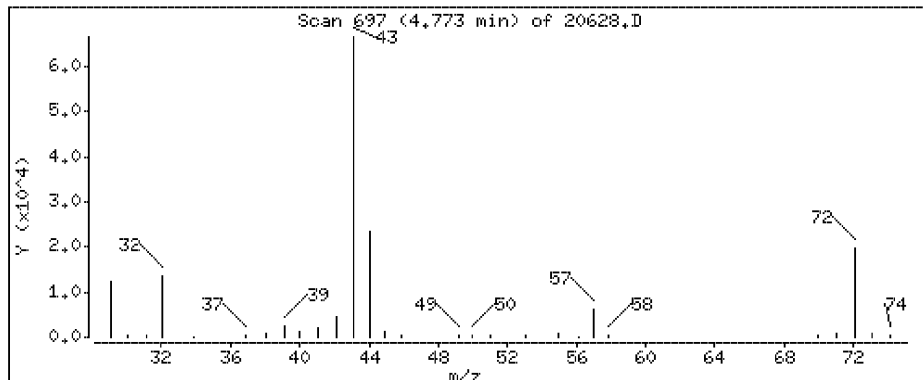
Operator: DR1

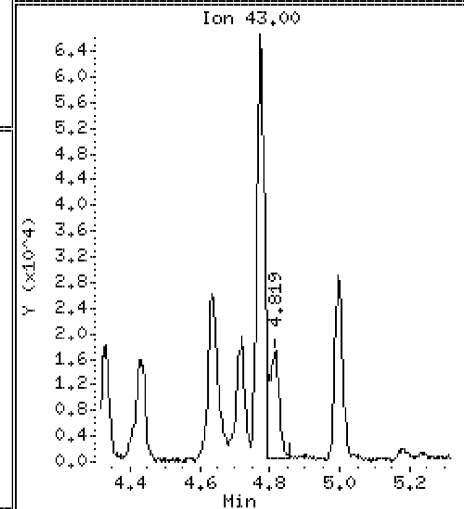
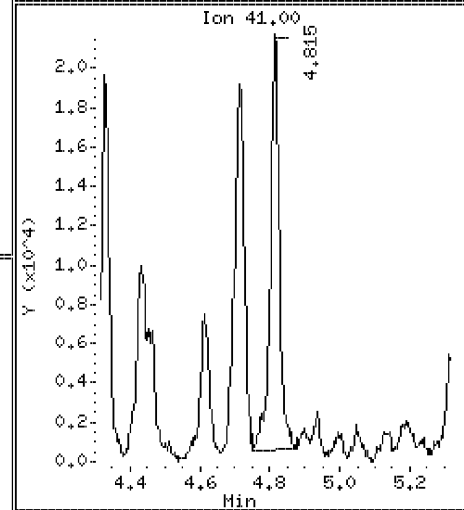
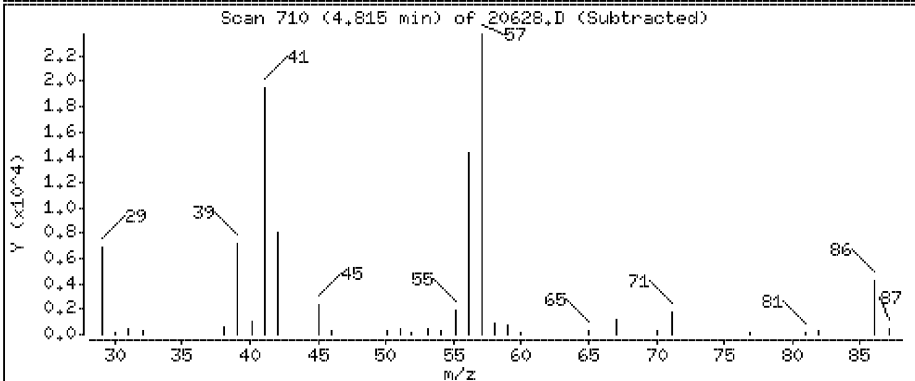
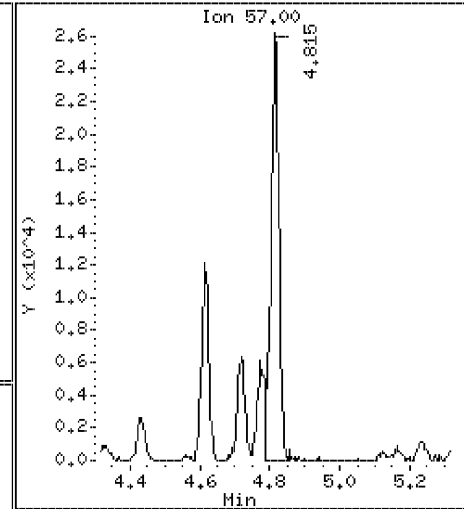
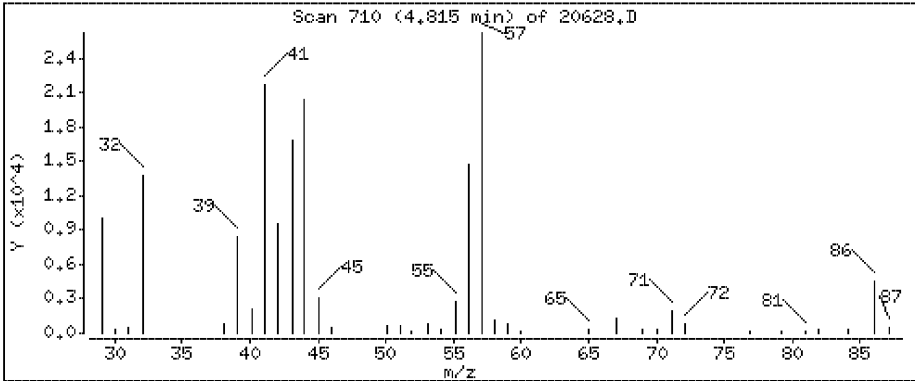
Column phase: J&W DB-5

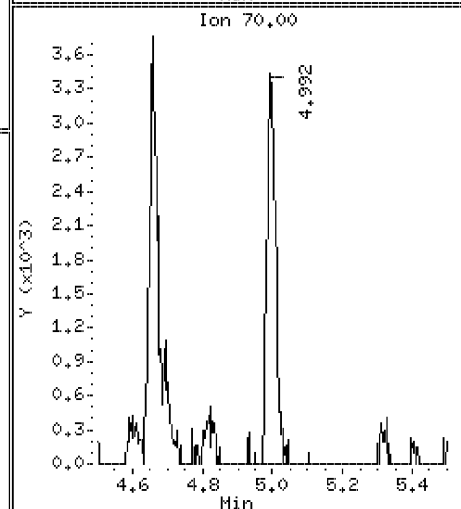
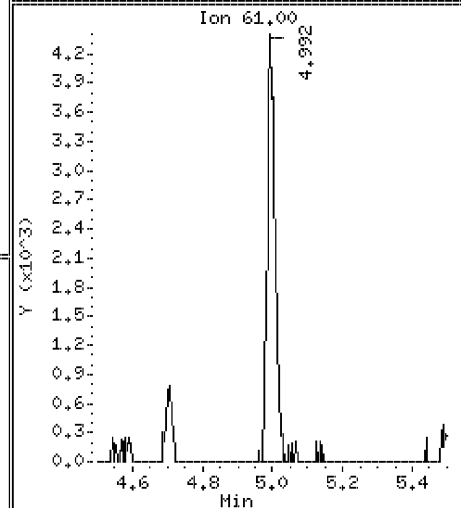
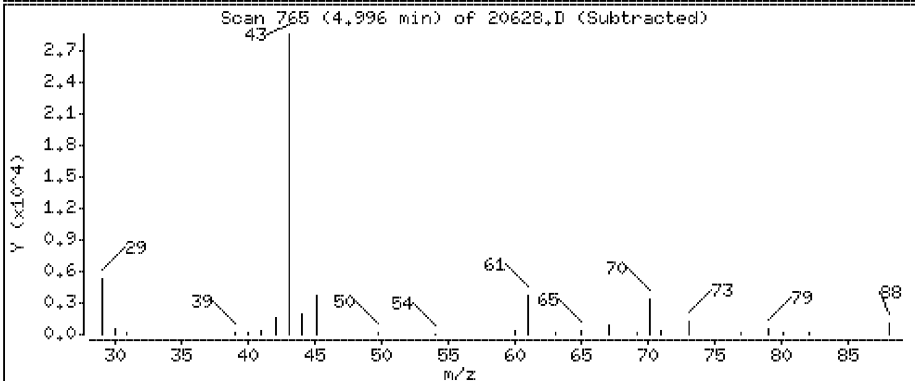
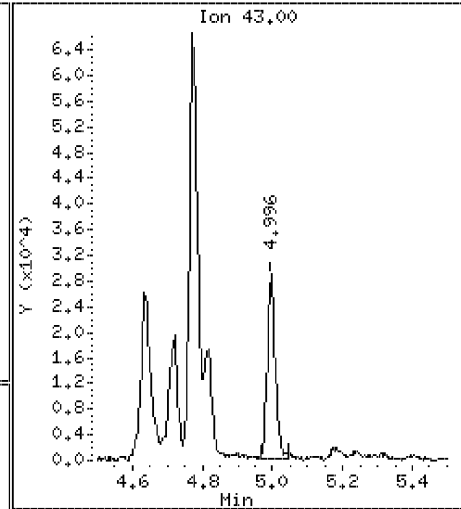
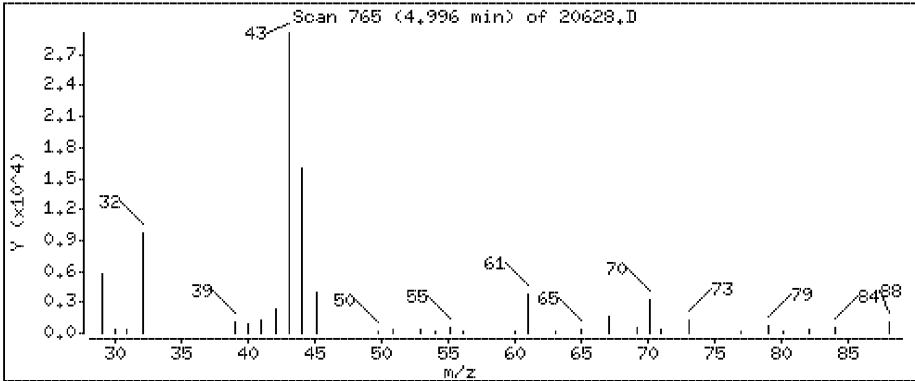
Column diameter: 0.32

27 Methyl Ethyl Ketone

Concentration: 4.18 ppbv







Data File: \\192.168.10.12\chem\10airD,1\072513,b\20628.D

Date : 26-JUL-2013 02:32

Client ID:

Instrument: 10airD.i

Sample Info:

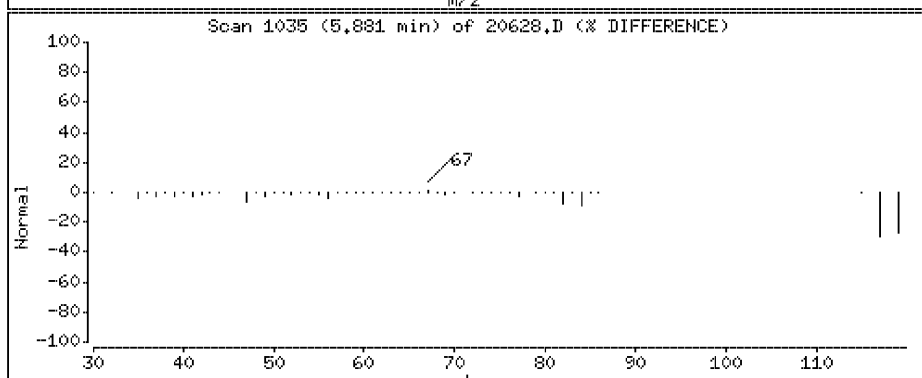
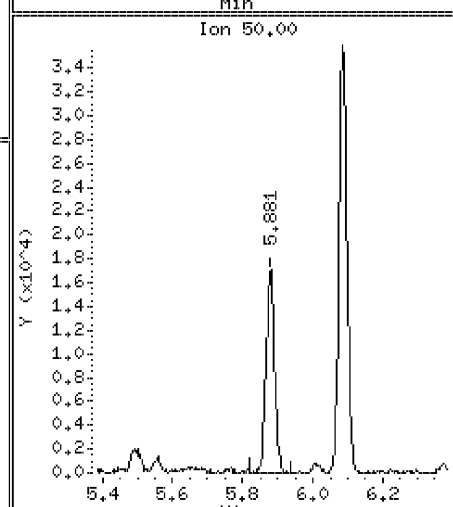
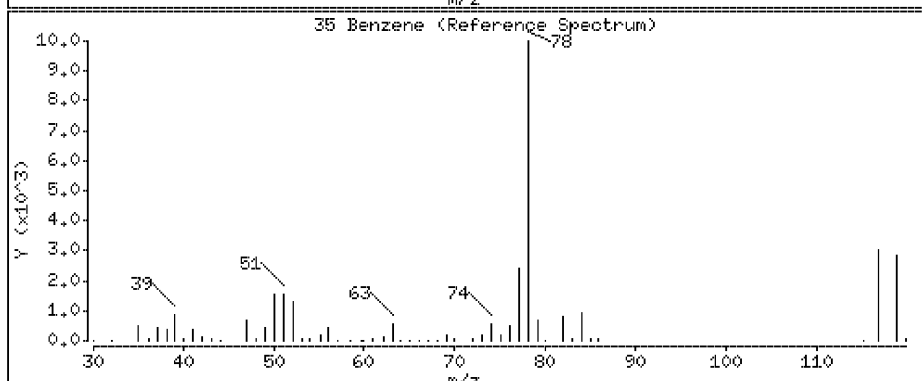
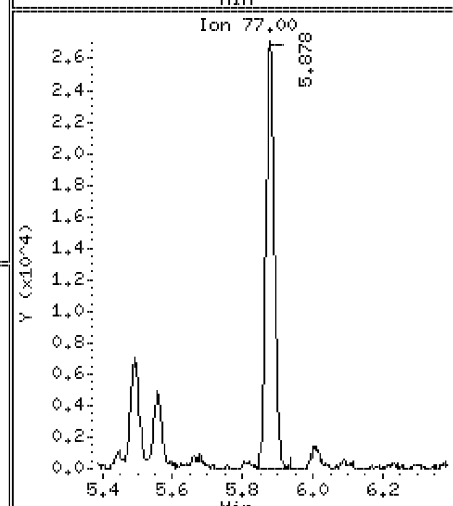
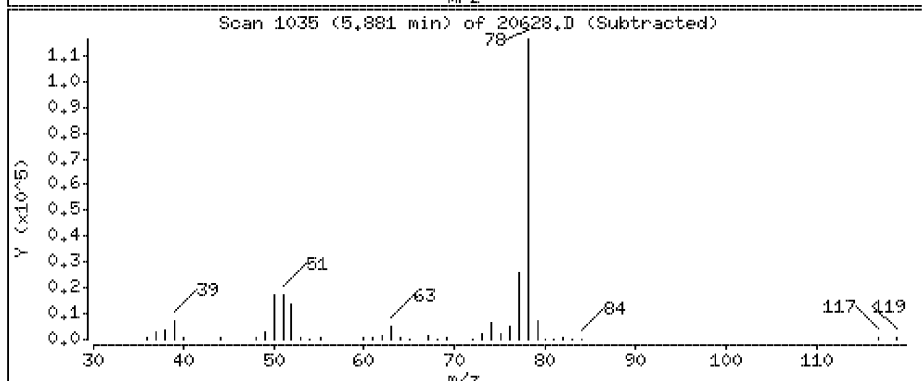
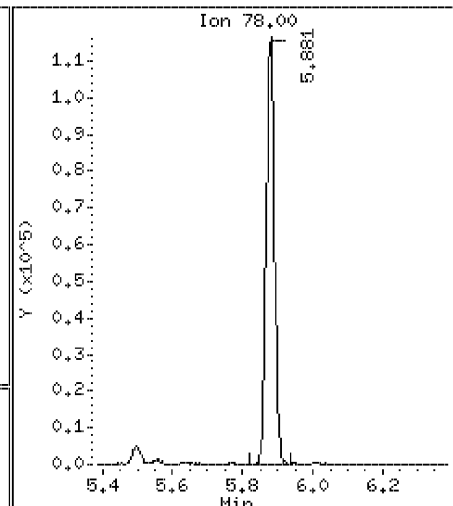
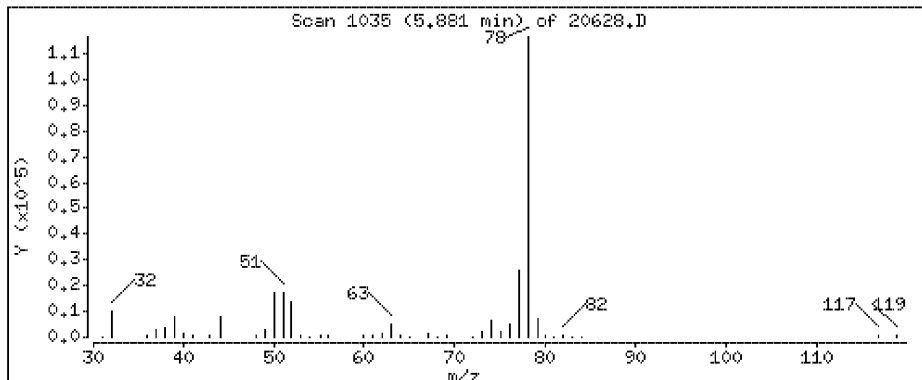
Operator: DR1

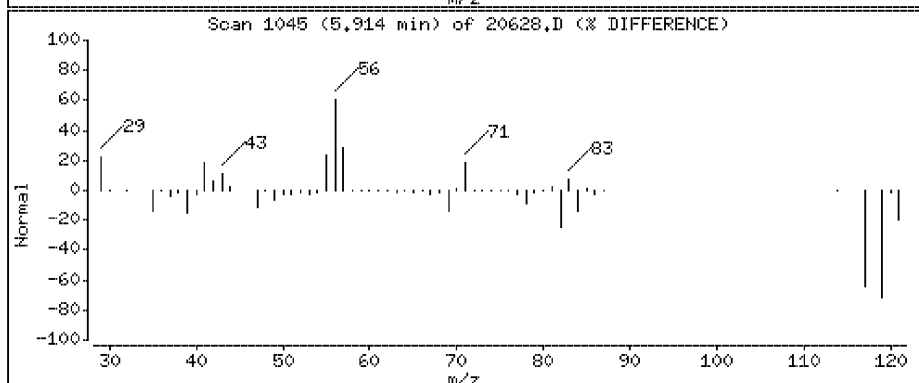
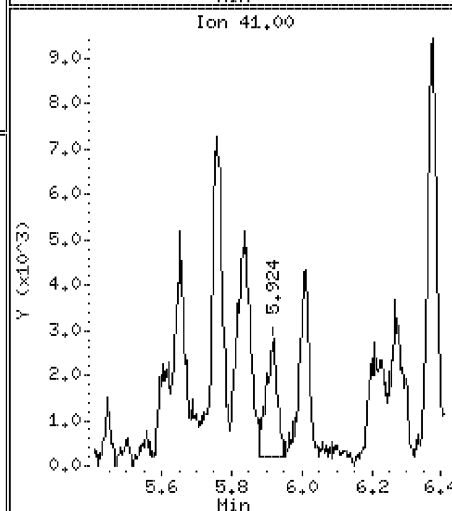
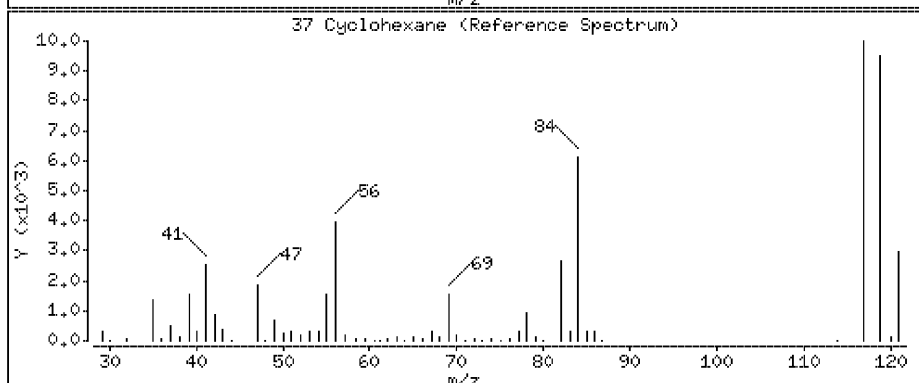
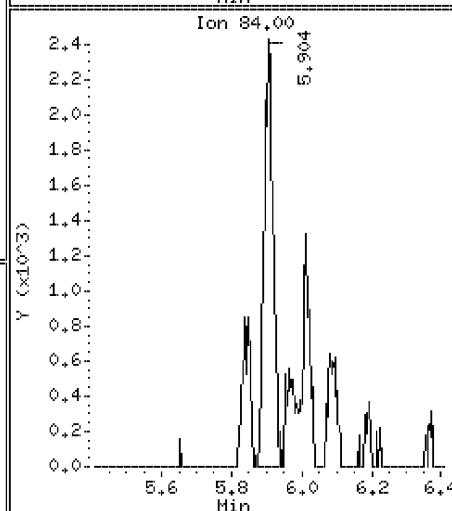
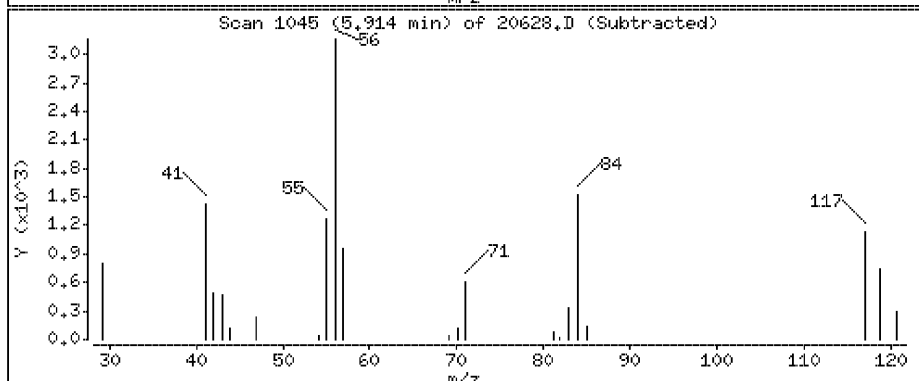
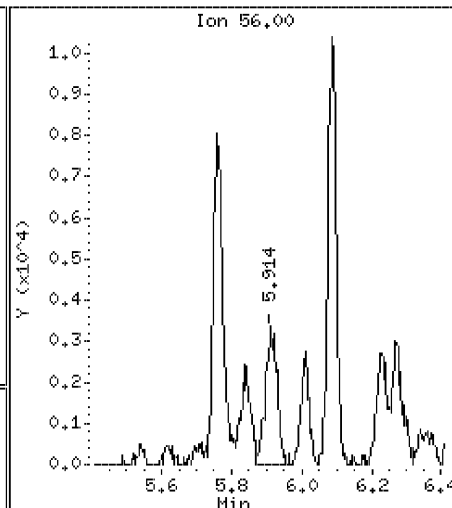
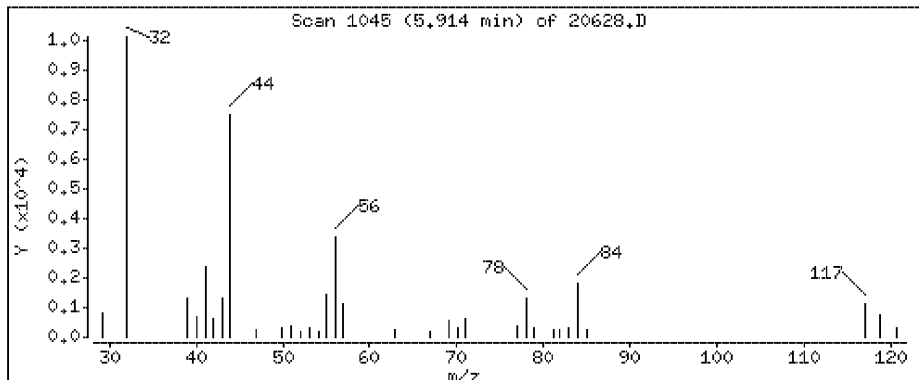
Column phase: J&W DB-5

Column diameter: 0.32

35 Benzene

Concentration: 4.56 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20628.D

Date : 26-JUL-2013 02:32

Client ID:

Instrument: 10airD.i

Sample Info:

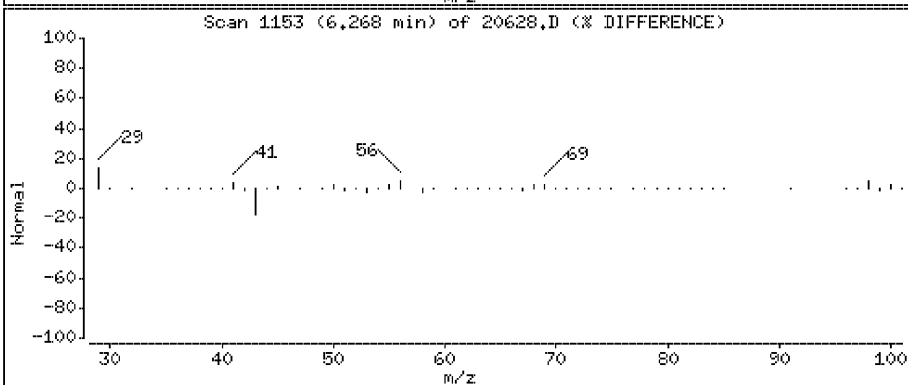
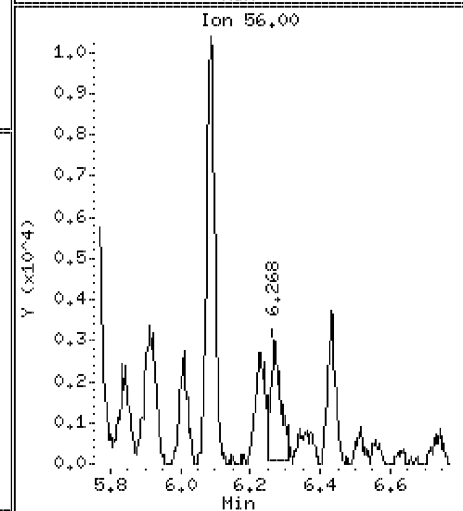
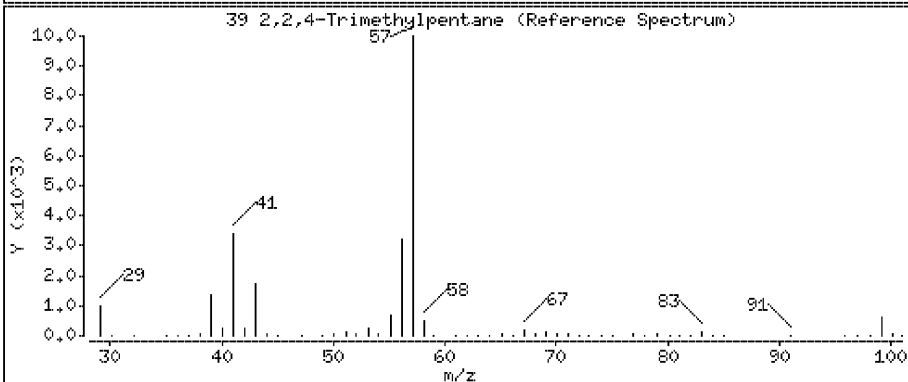
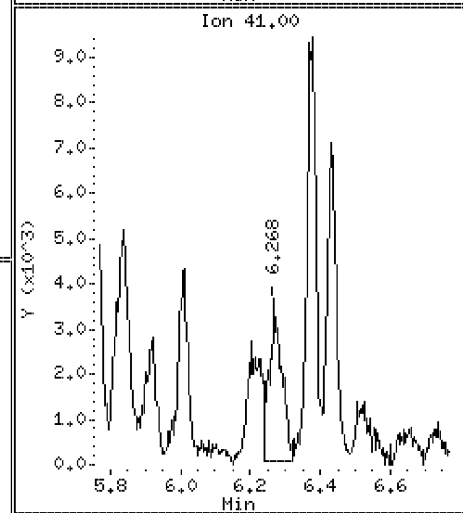
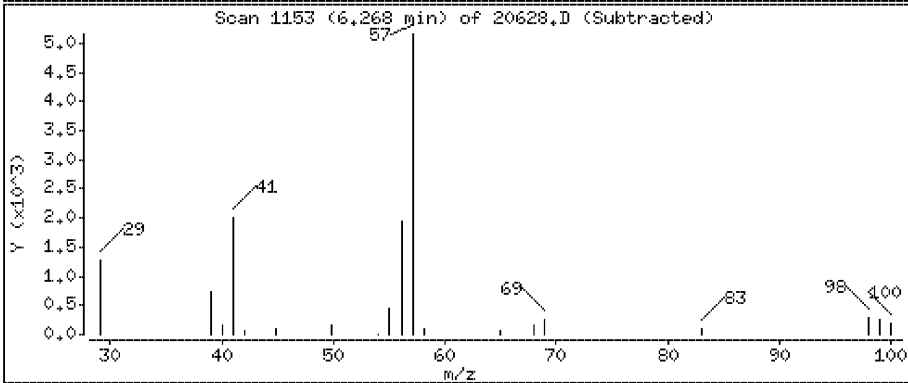
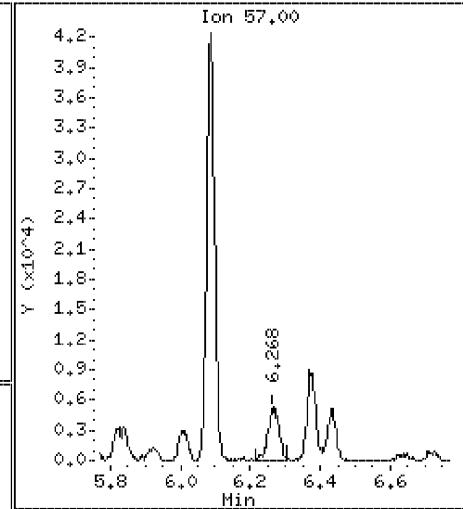
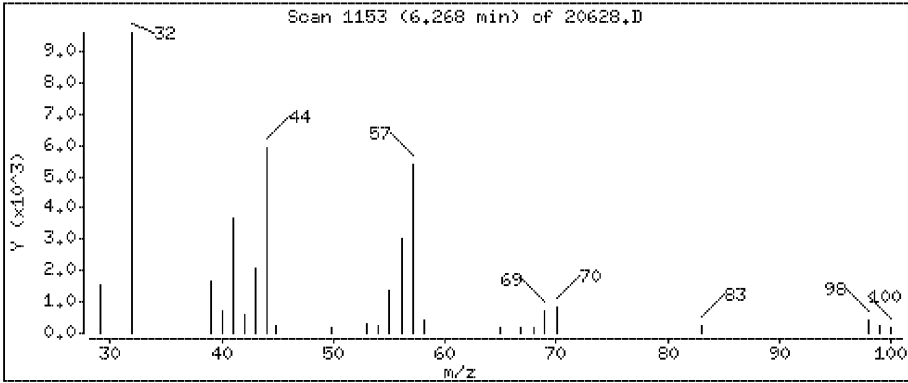
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

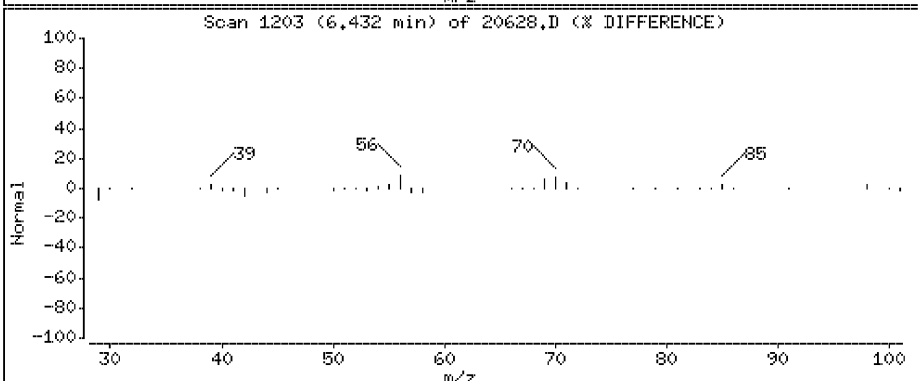
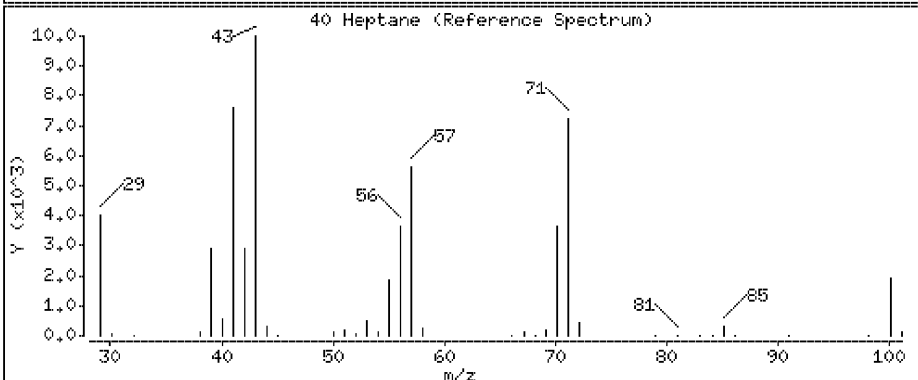
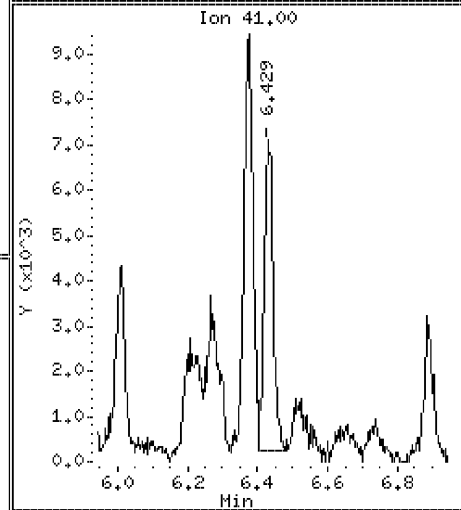
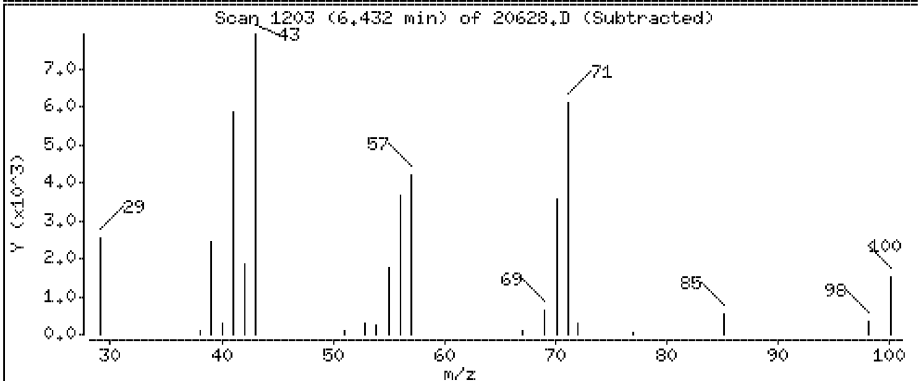
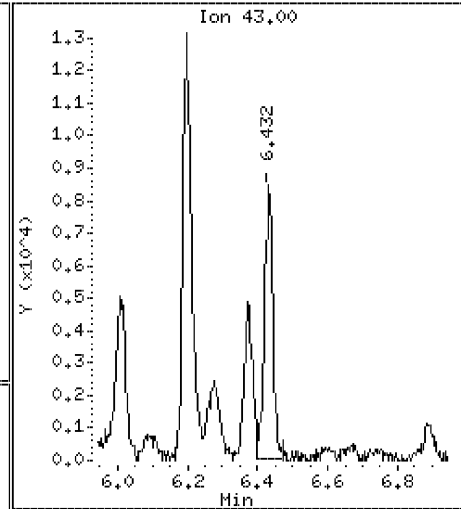
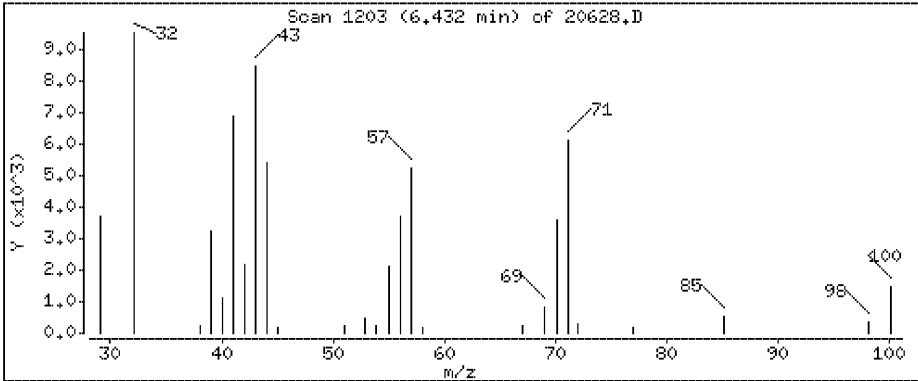
39 2,2,4-Trimethylpentane

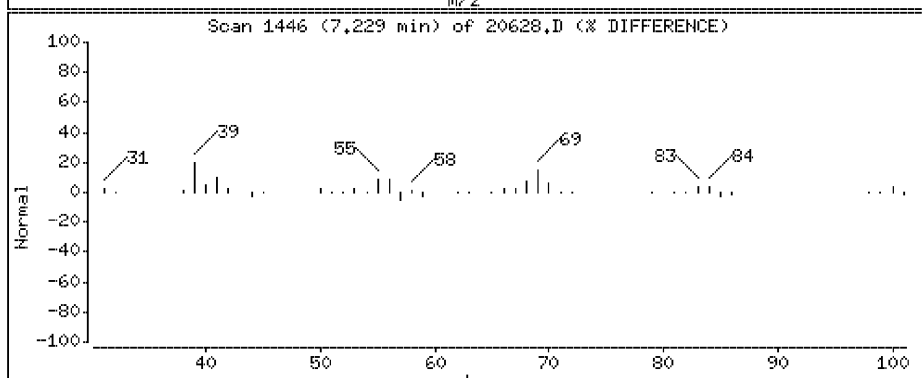
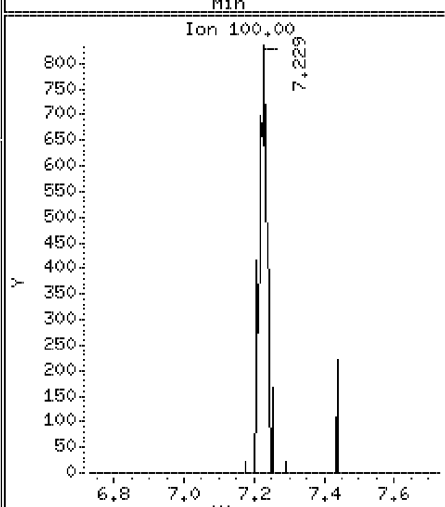
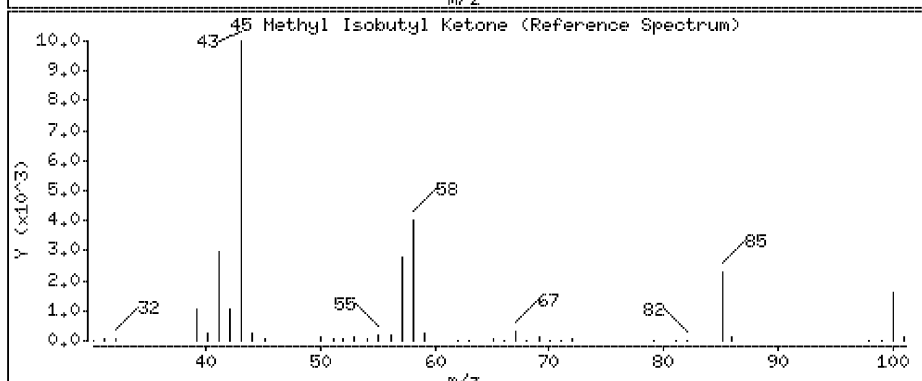
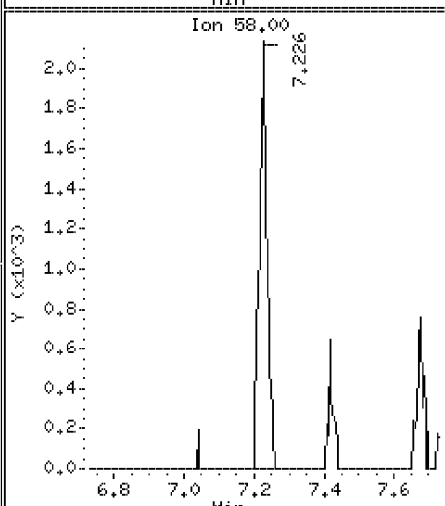
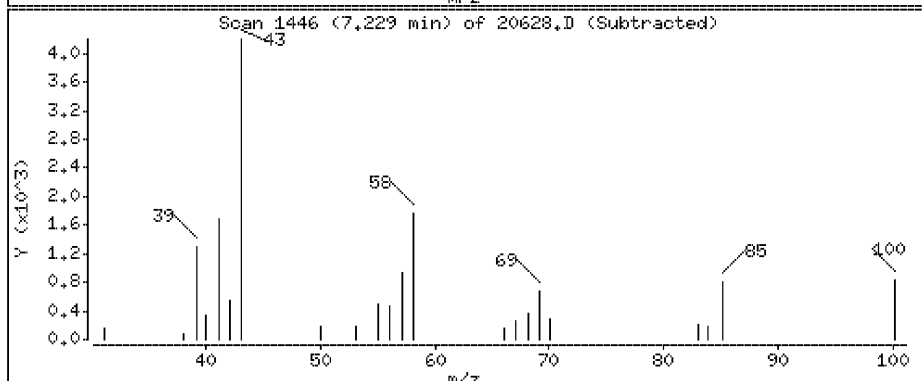
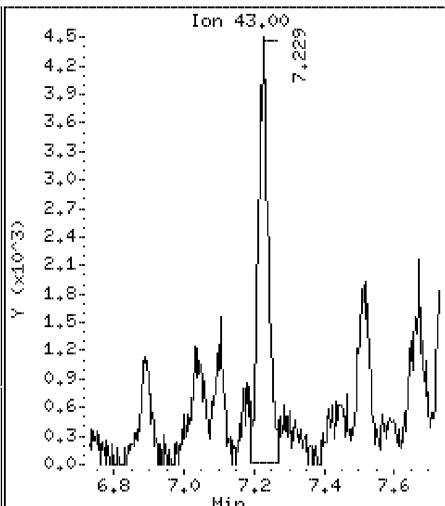
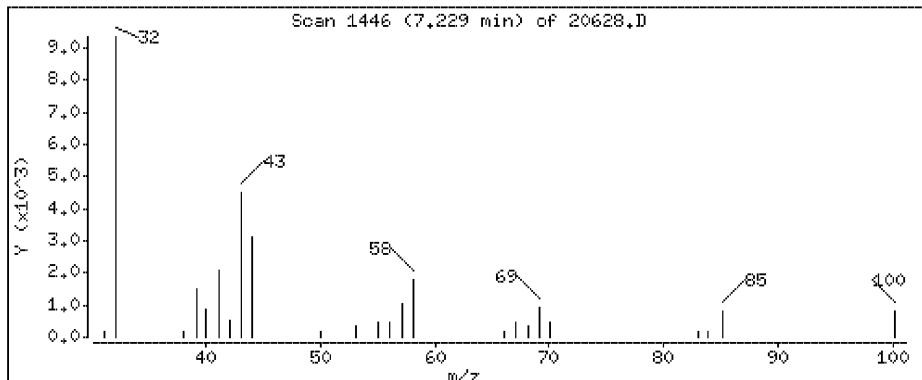
Concentration: 0.776 ppbv



40 Heptane

Concentration: 1.39 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20628.D

Date : 26-JUL-2013 02:32

Client ID:

Instrument: 10airD.i

Sample Info:

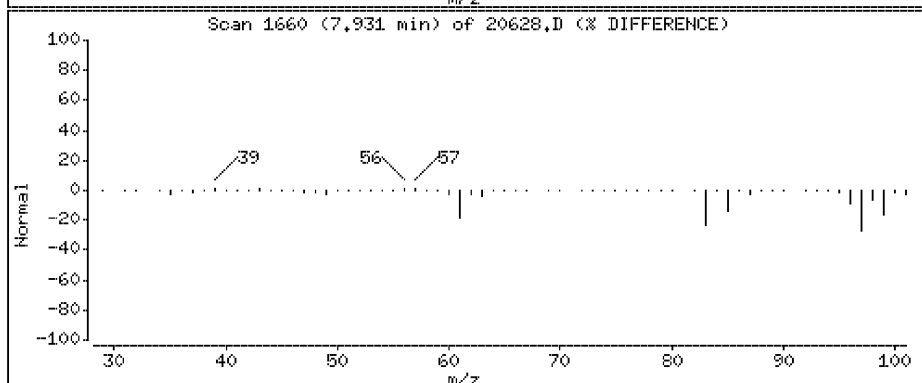
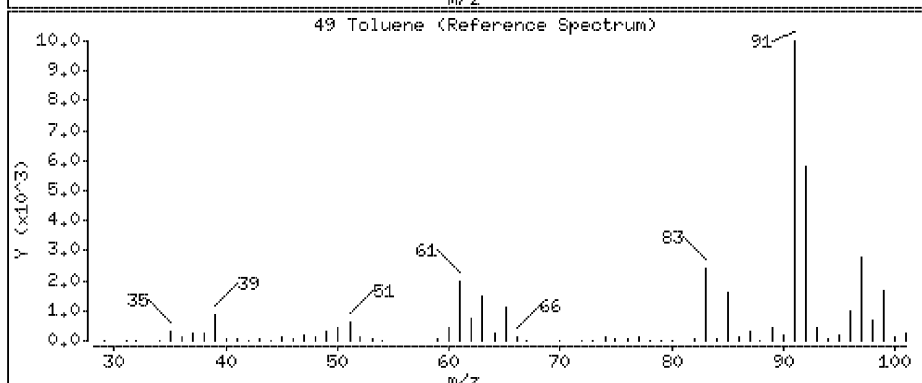
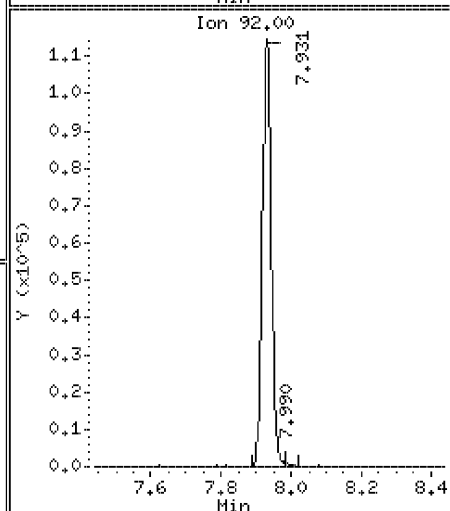
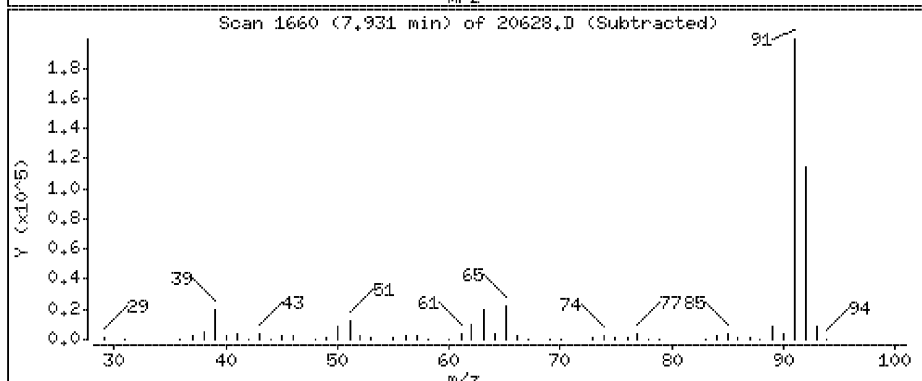
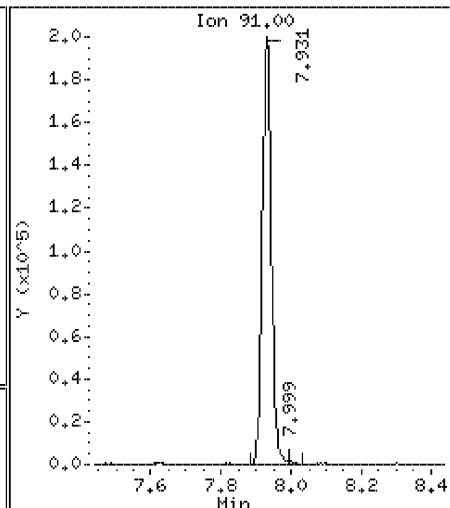
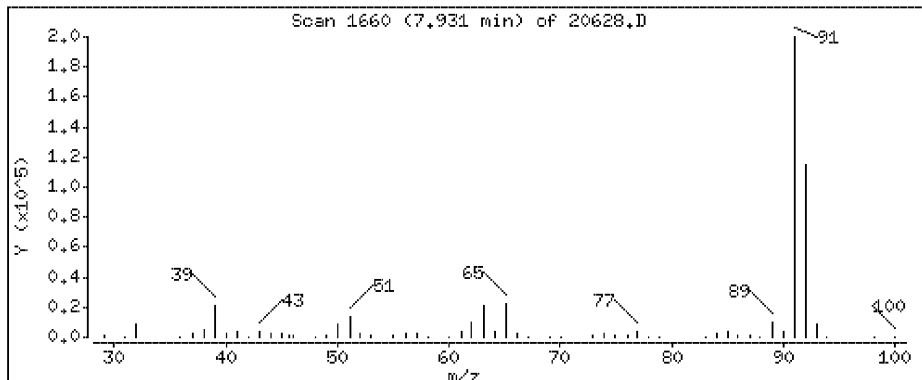
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

49 Toluene

Concentration: 6.30 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20628.D

Date : 26-JUL-2013 02:32

Client ID:

Instrument: 10airD.i

Sample Info:

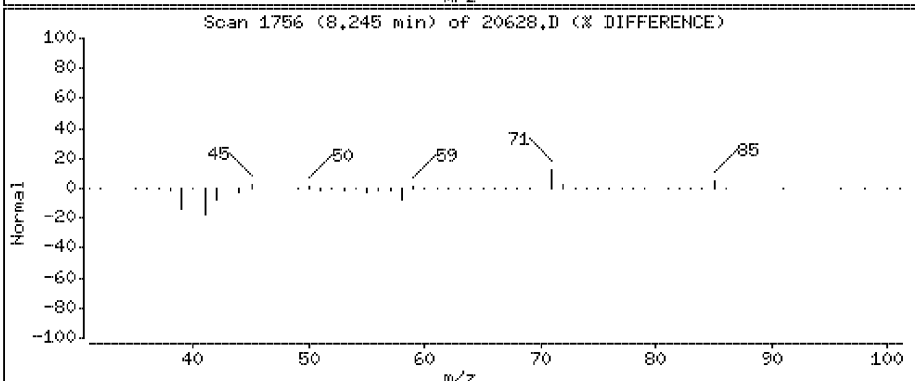
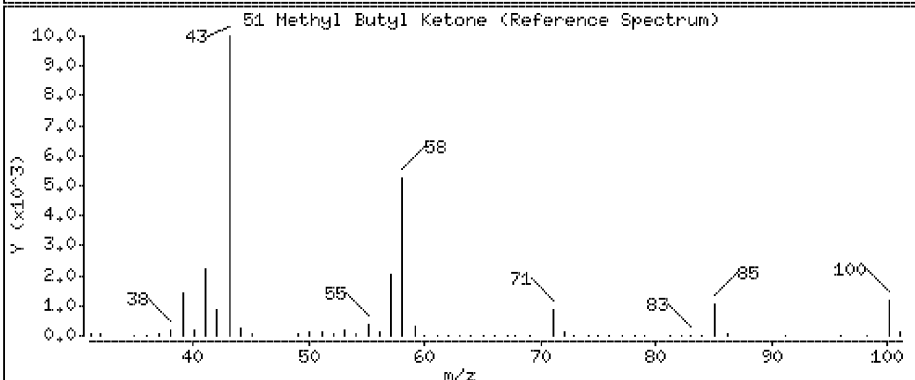
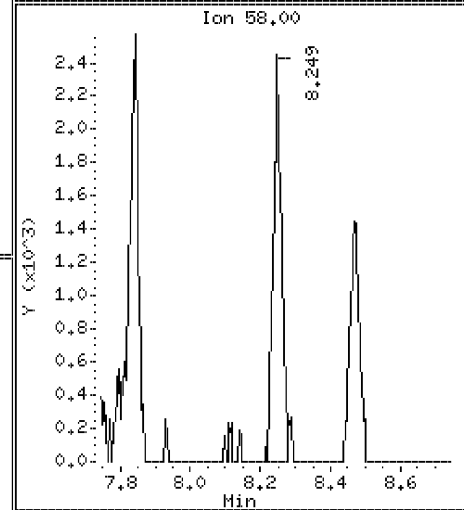
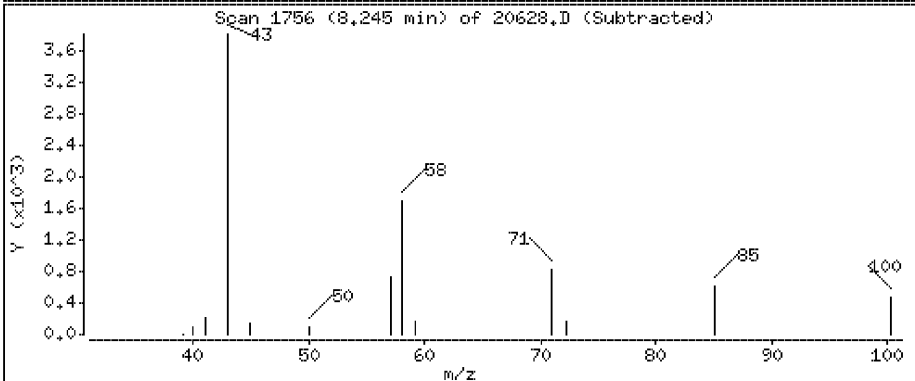
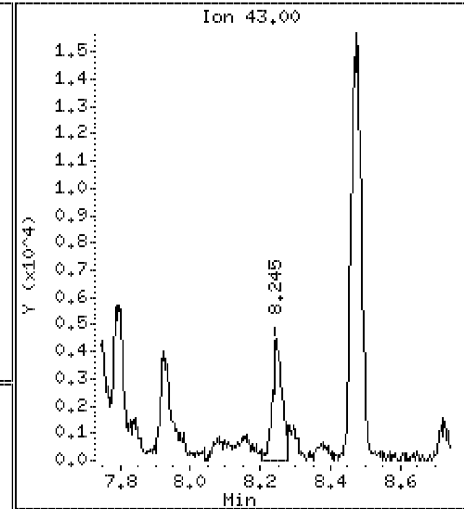
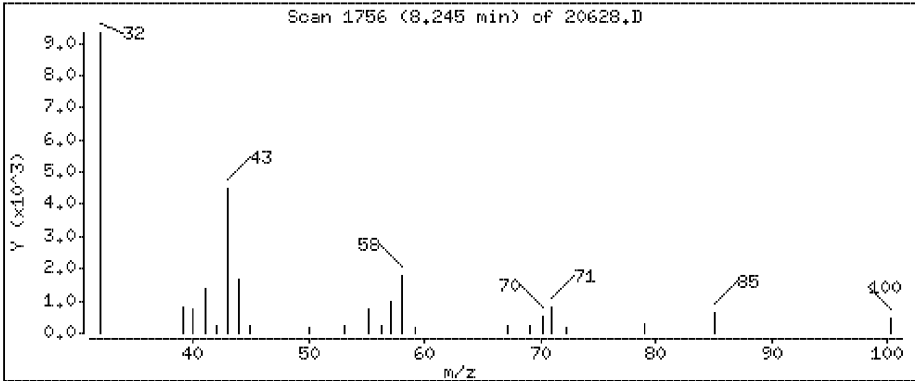
Operator: DR1

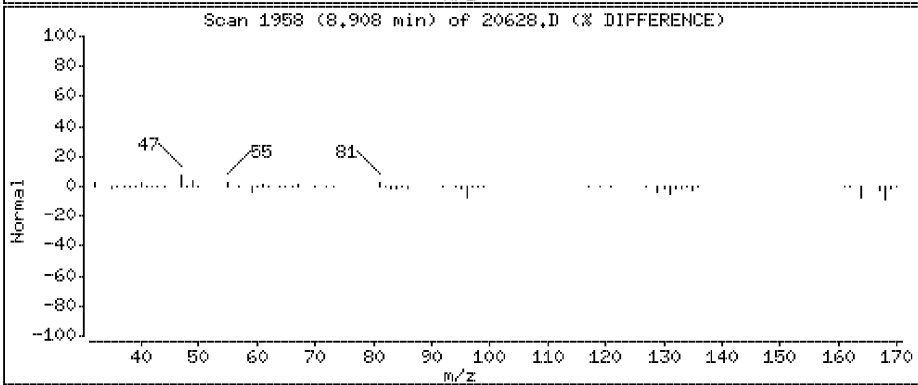
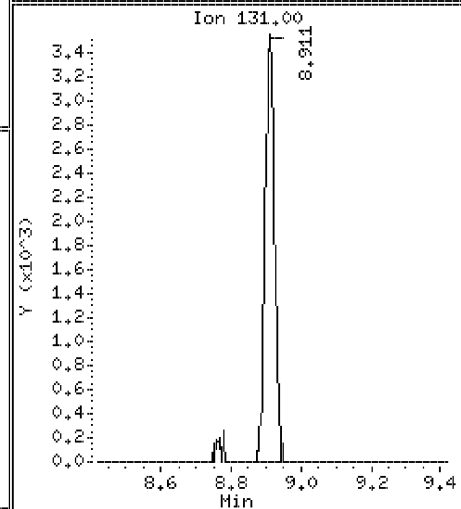
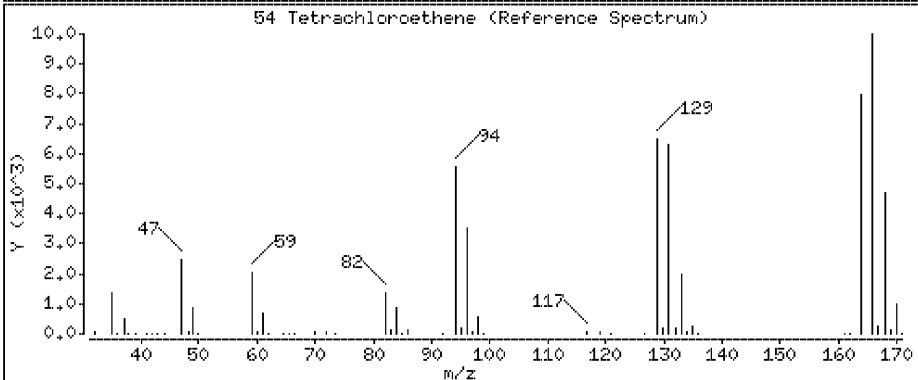
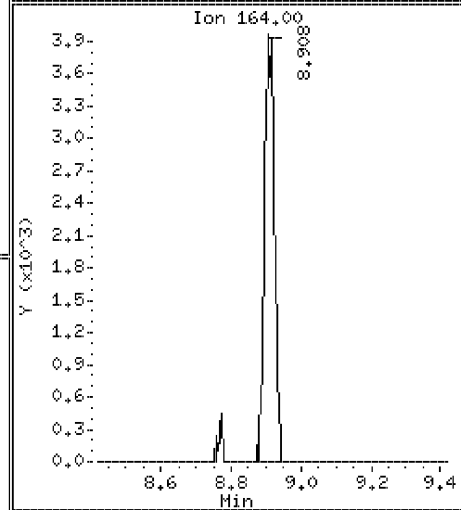
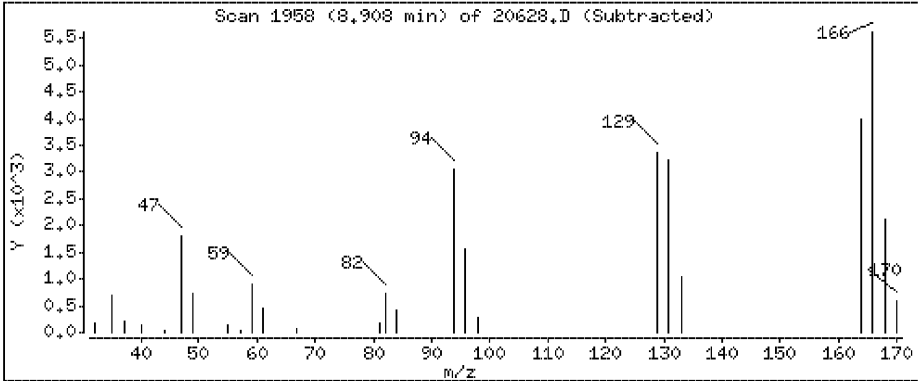
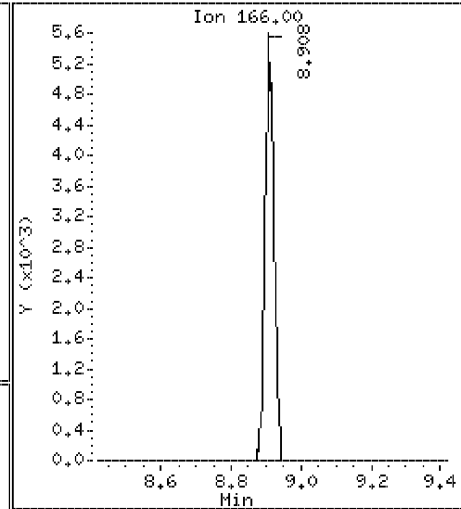
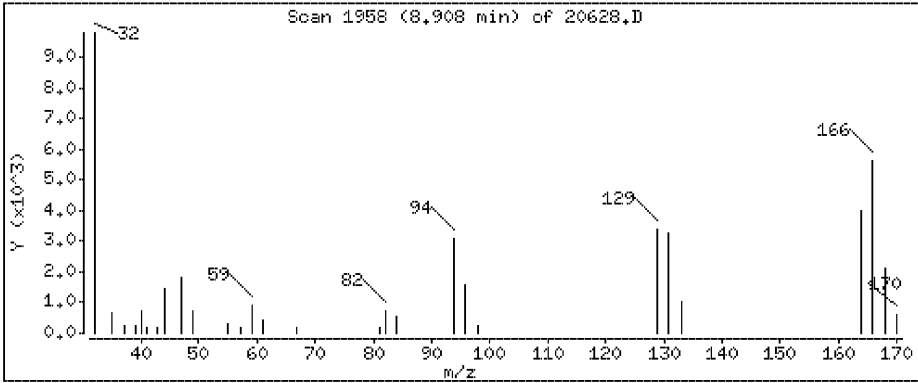
Column phase: J&W DB-5

Column diameter: 0.32

51 Methyl Butyl Ketone

Concentration: 0.795 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20628.D

Date : 26-JUL-2013 02:32

Client ID:

Instrument: 10airD.i

Sample Info:

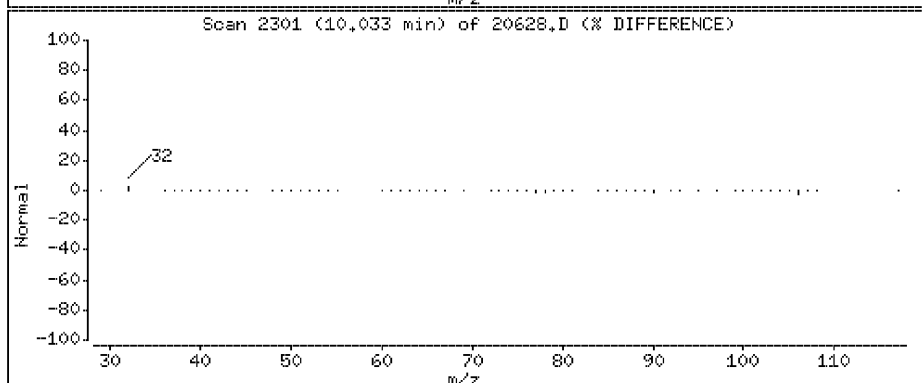
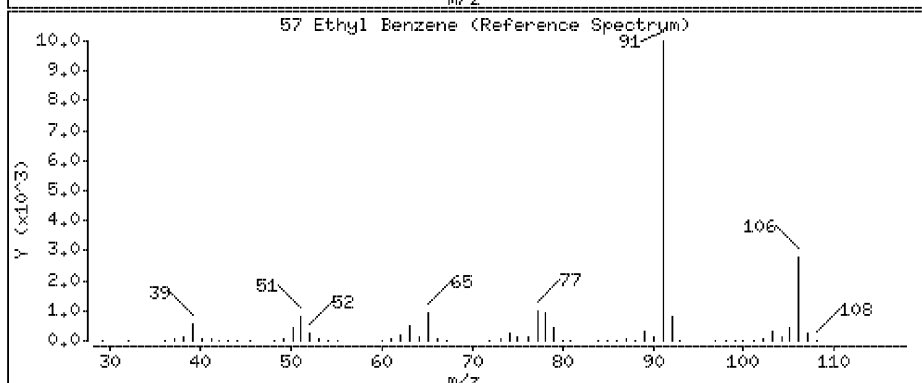
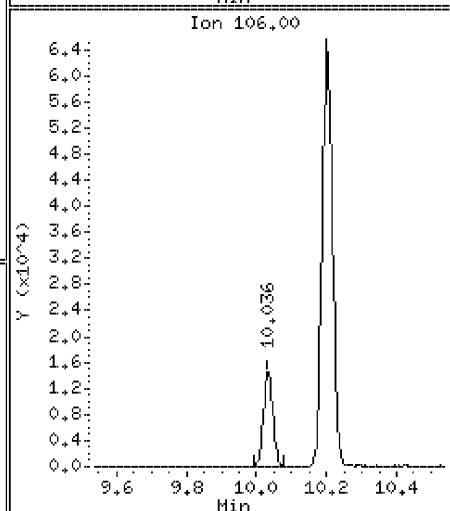
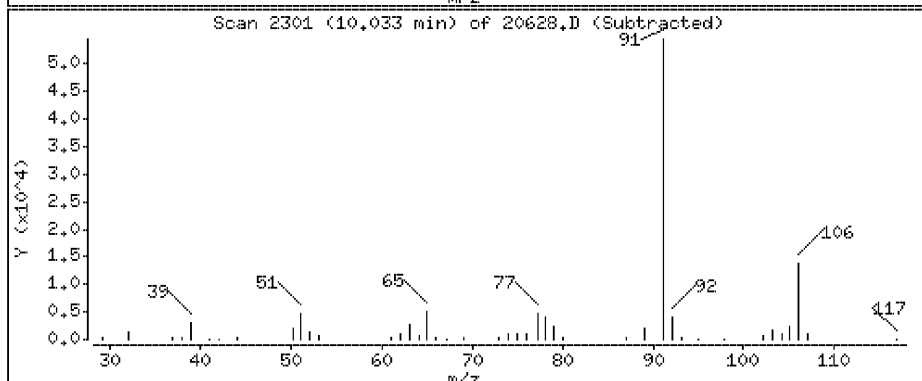
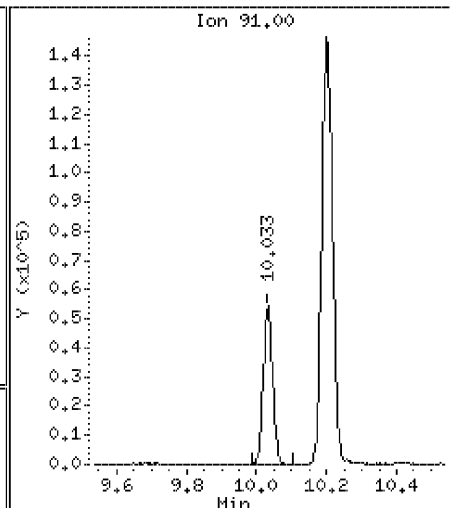
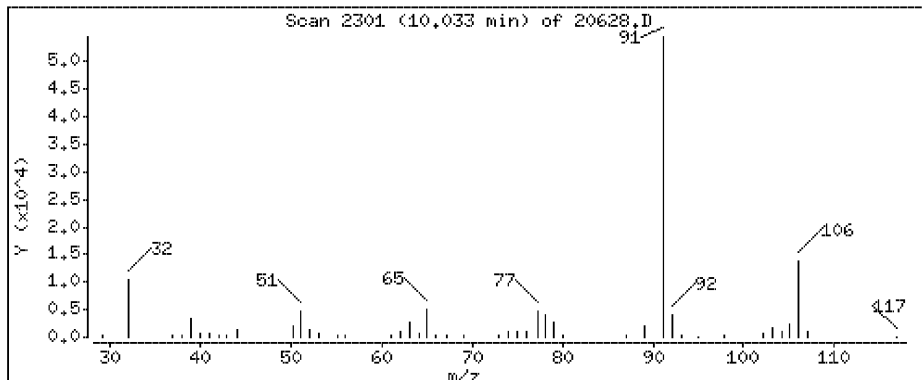
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

57 Ethyl Benzene

Concentration: 1.71 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20628.D

Date : 26-JUL-2013 02:32

Client ID:

Instrument: 10airD.i

Sample Info:

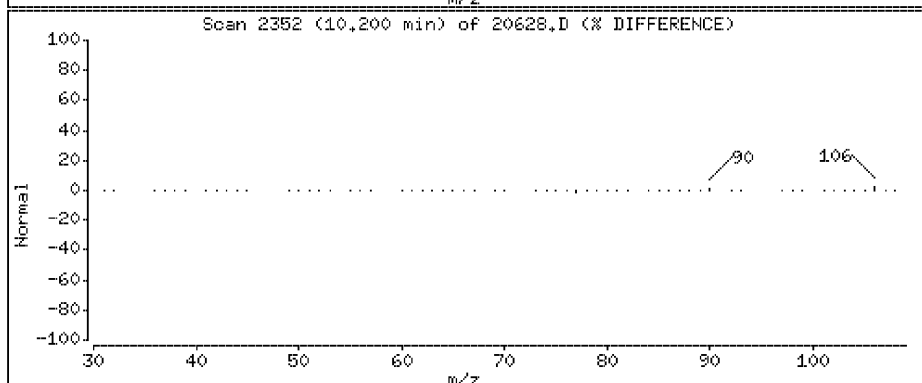
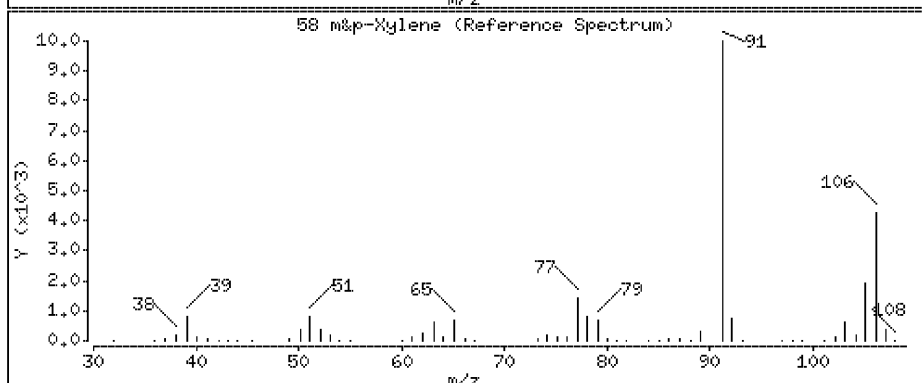
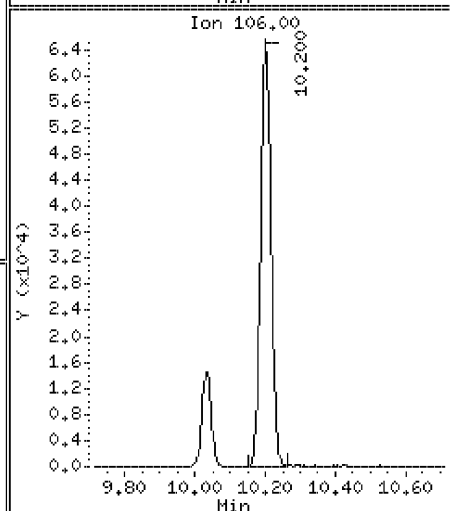
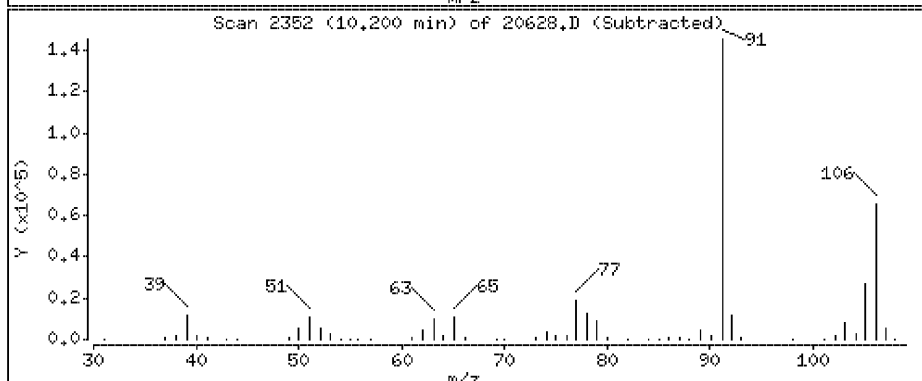
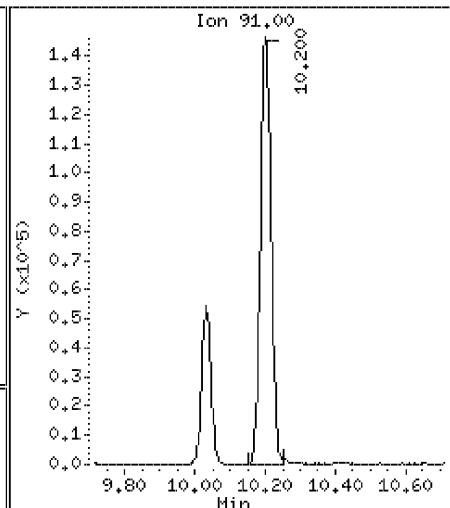
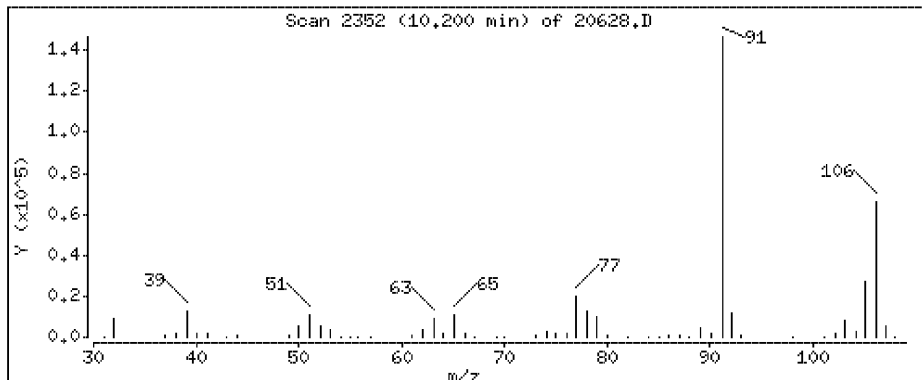
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

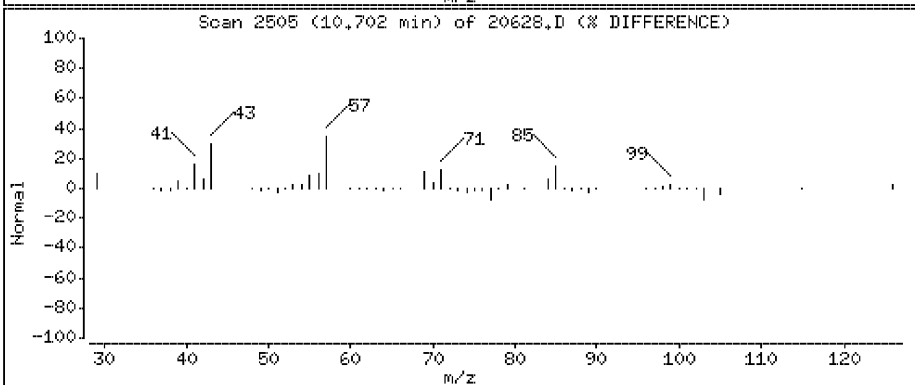
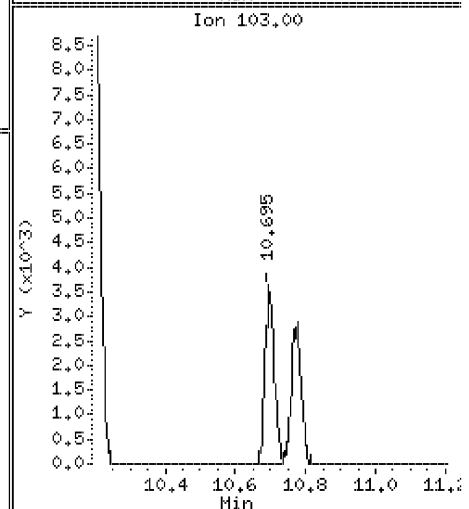
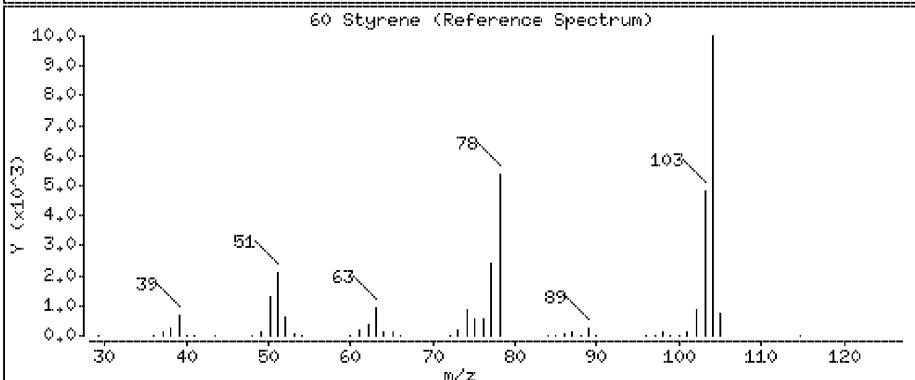
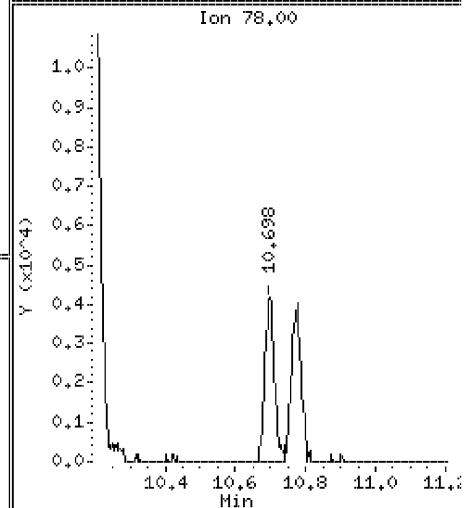
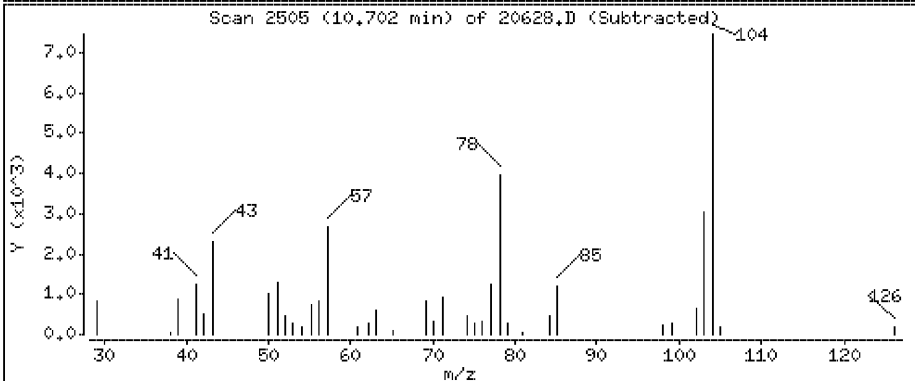
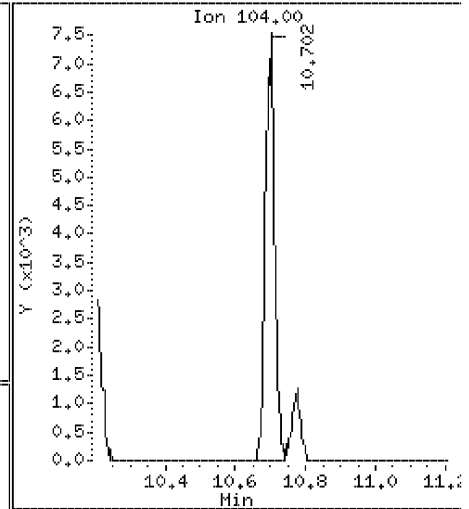
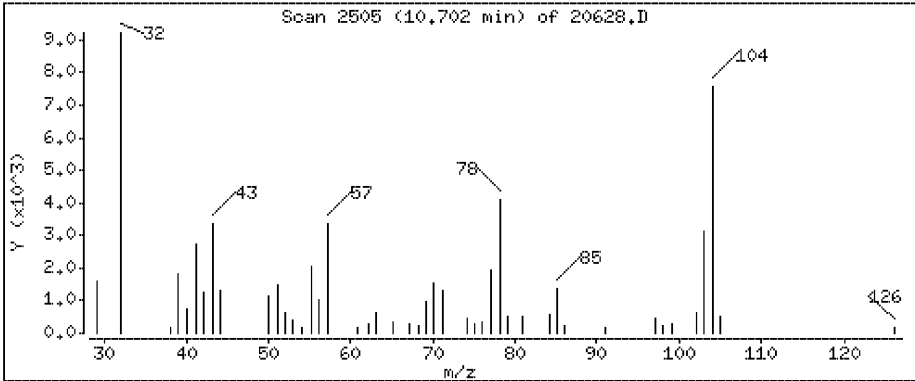
58 m&p-Xylene

Concentration: 5,25 ppbv



60 Styrene

Concentration: 1.00 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20628.D

Date : 26-JUL-2013 02:32

Client ID:

Instrument: 10airD.i

Sample Info:

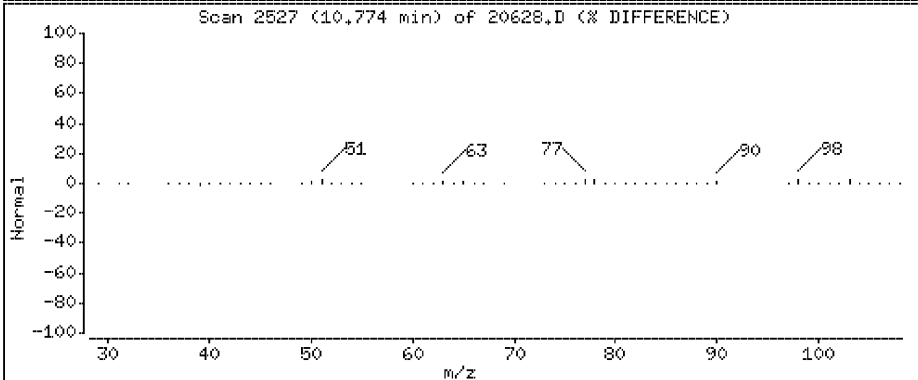
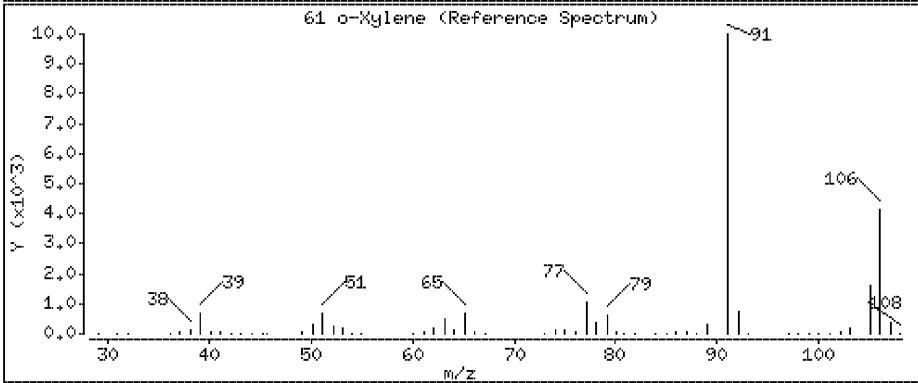
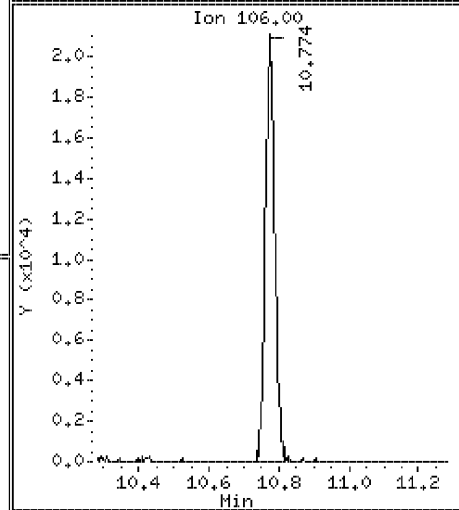
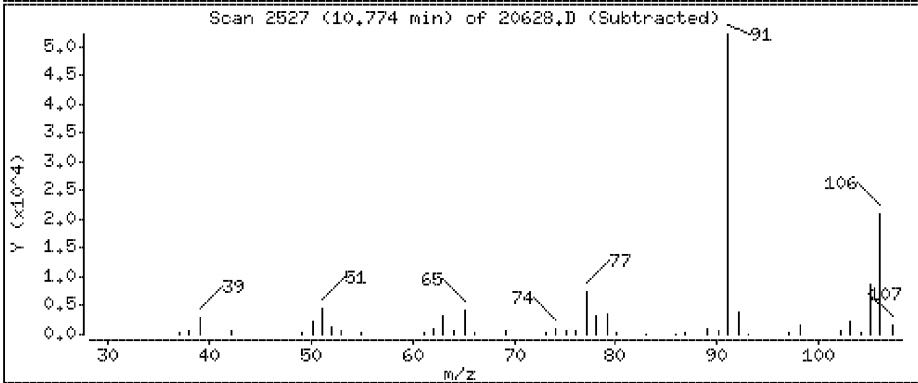
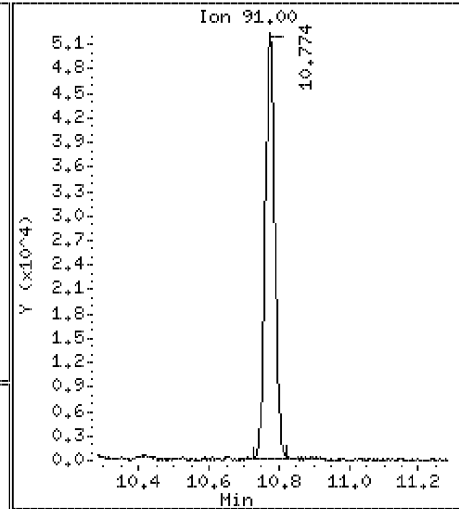
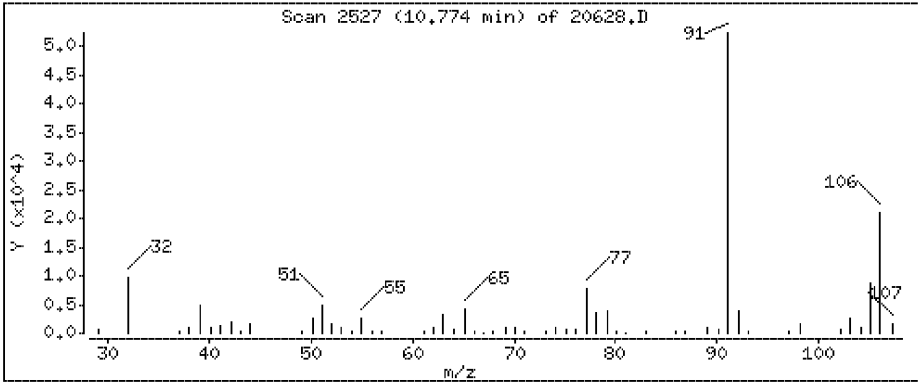
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

61 o-Xylene

Concentration: 1.78 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20628.D

Date : 26-JUL-2013 02:32

Client ID:

Instrument: 10airD.i

Sample Info:

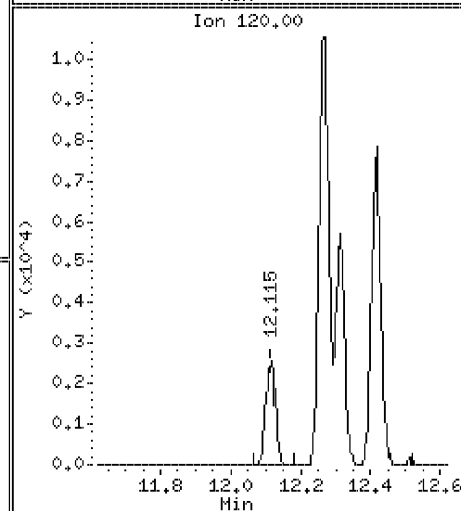
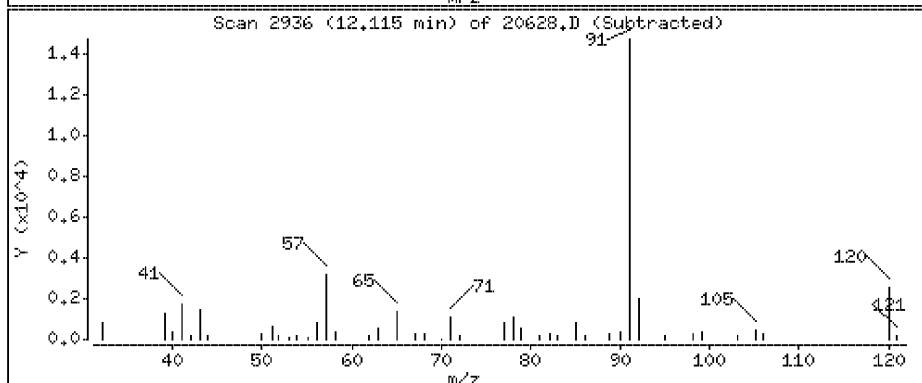
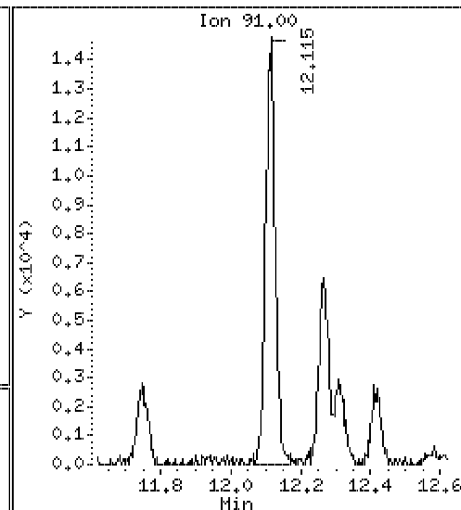
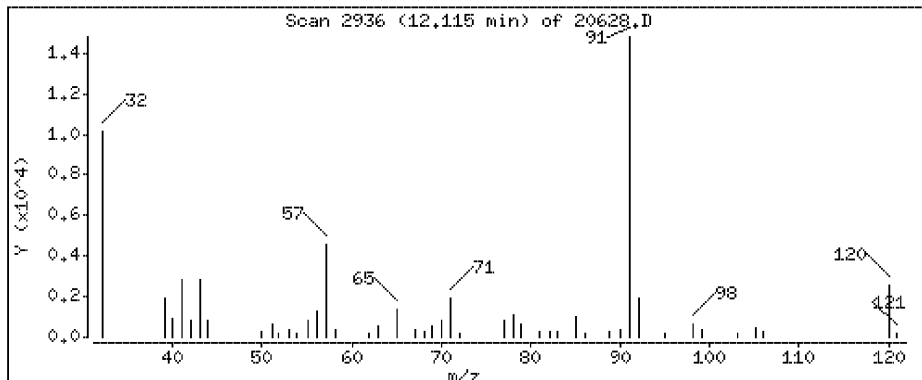
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

64 N-Propylbenzene

Concentration: 0.715 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20628.D

Date : 26-JUL-2013 02:32

Client ID:

Instrument: 10airD.i

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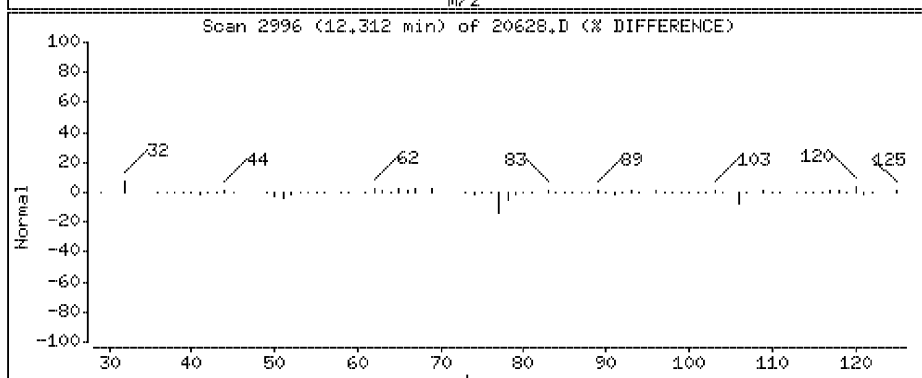
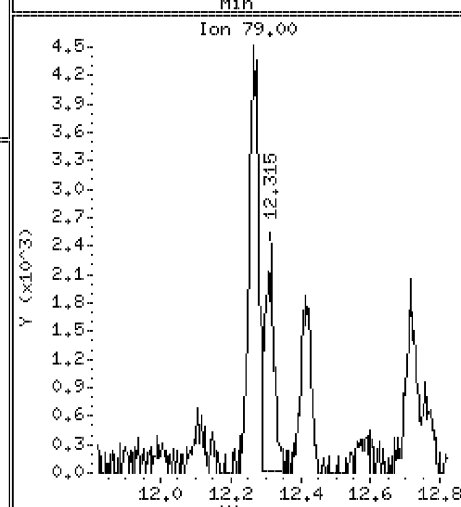
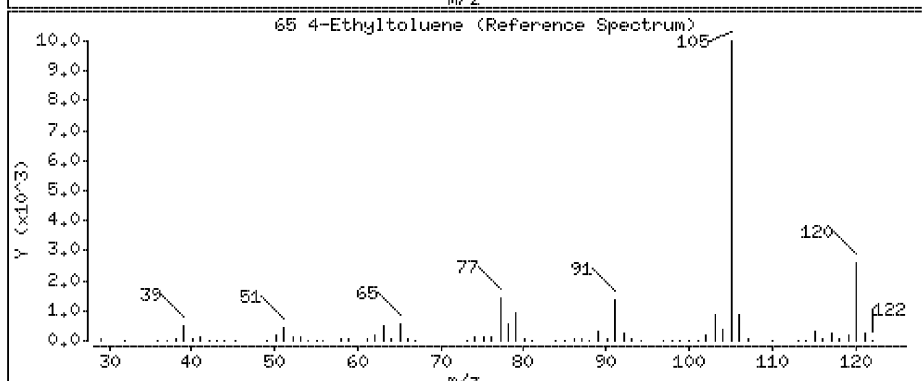
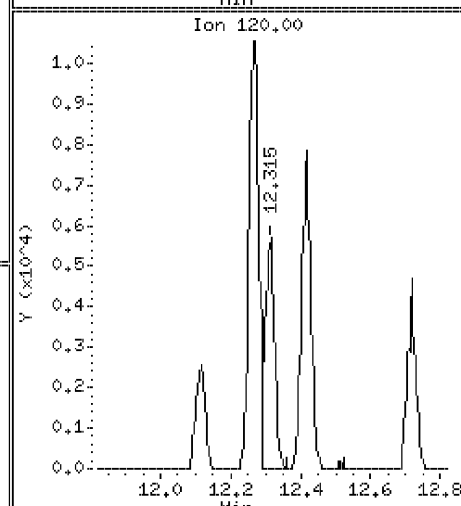
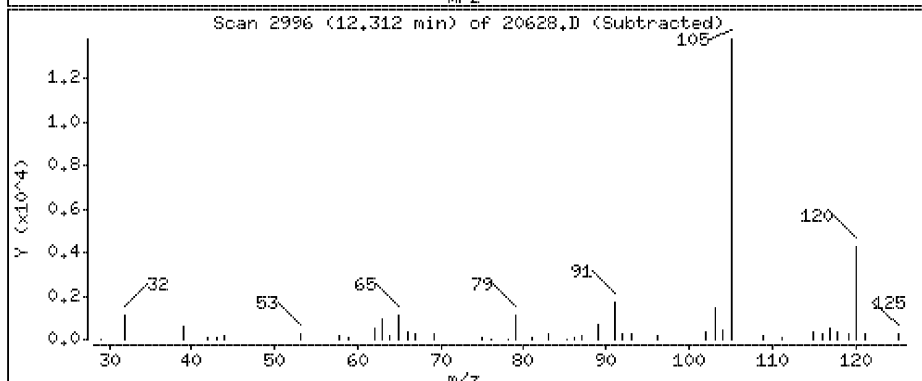
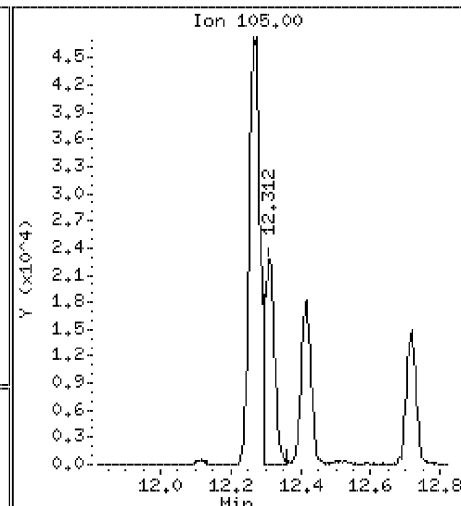
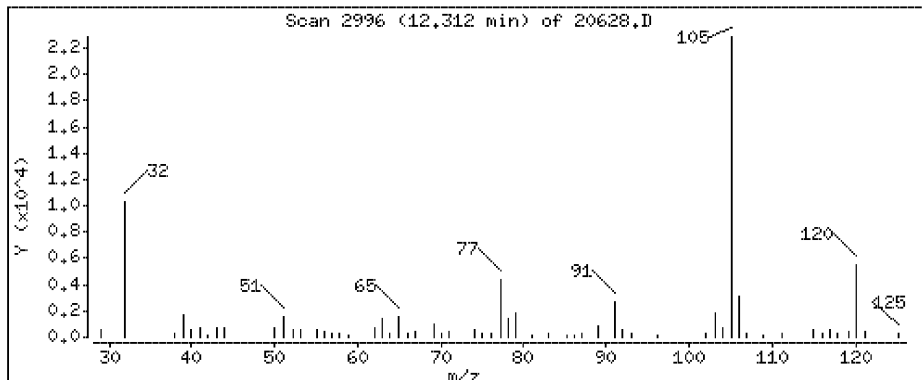
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

65 4-Ethyltoluene

Concentration: 1.05 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20628.D

Date : 26-JUL-2013 02:32

Client ID:

Instrument: 10airD.i

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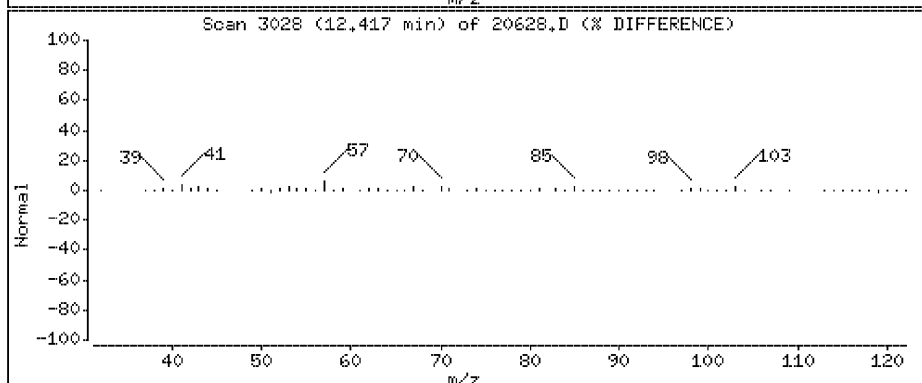
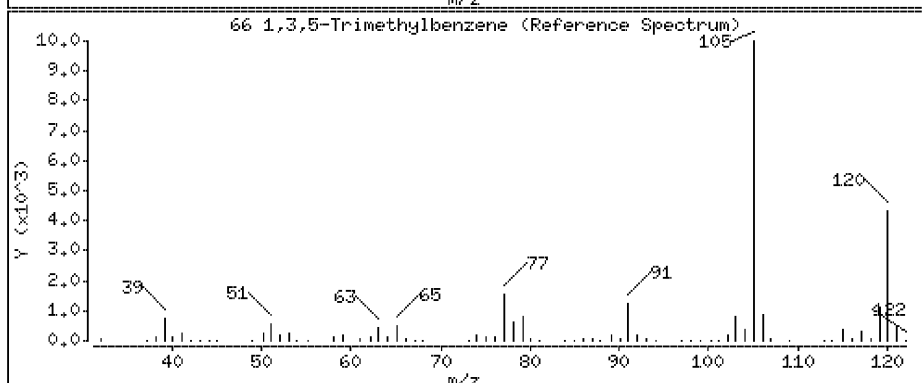
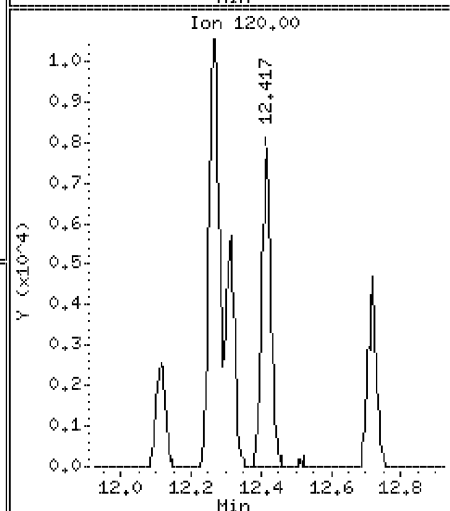
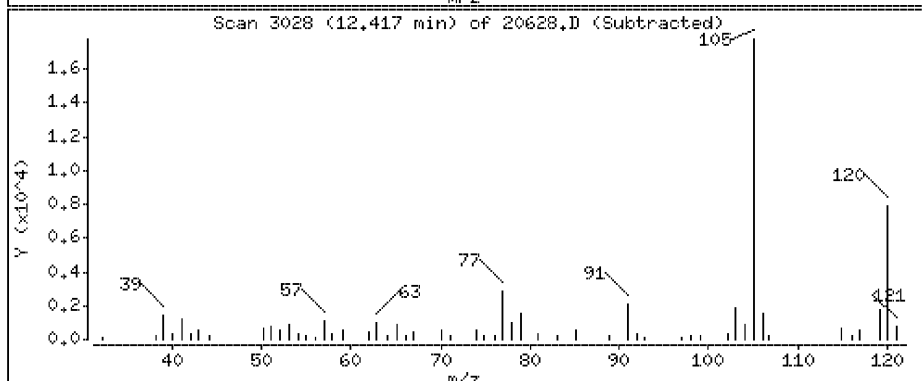
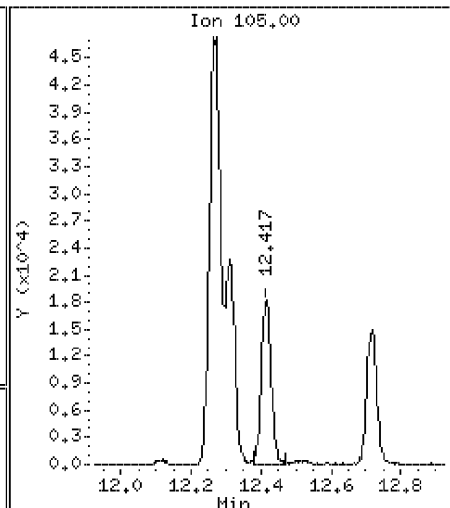
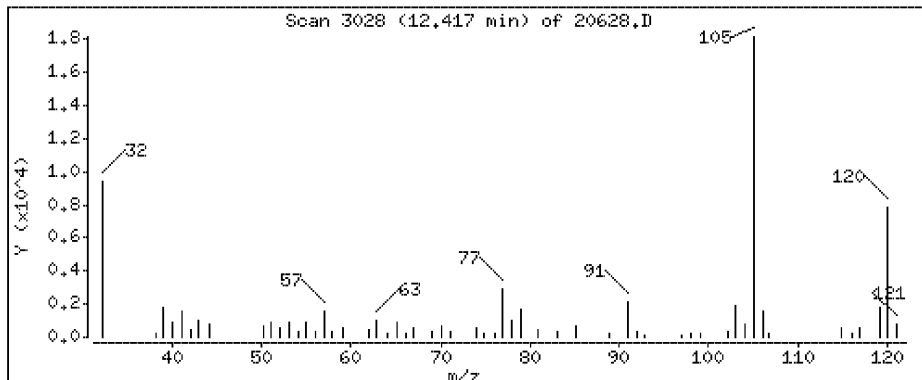
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

66 1,3,5-Trimethylbenzene

Concentration: 0.958 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20628.D

Date : 26-JUL-2013 02:32

Client ID:

Instrument: 10airD.i

Sample Info:

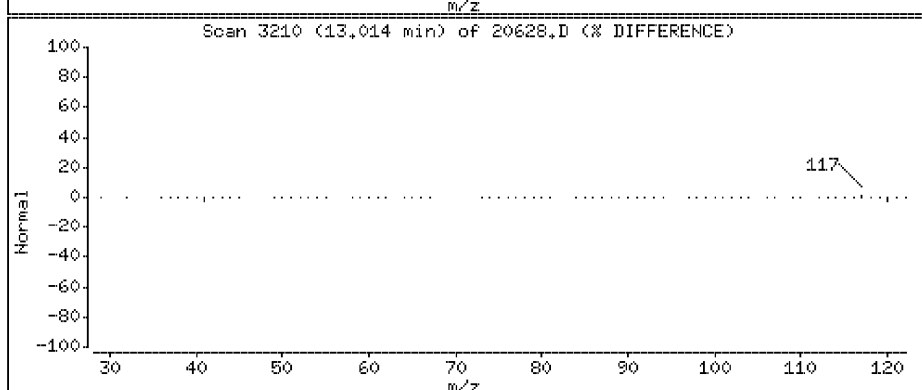
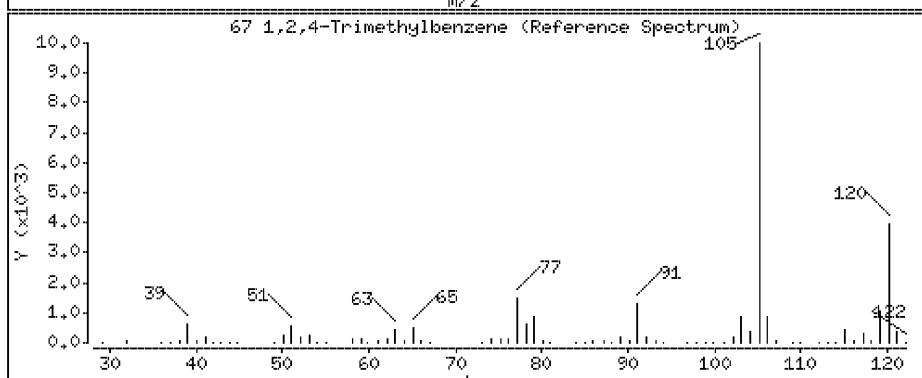
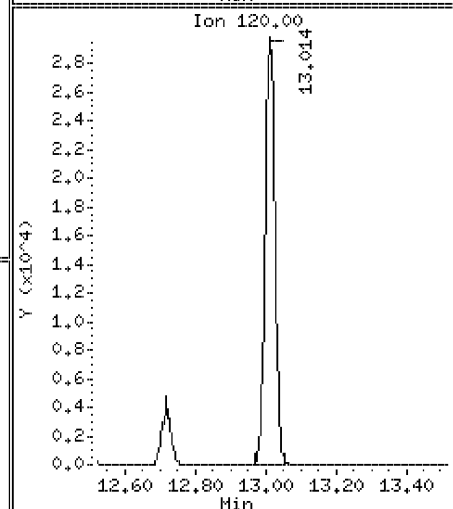
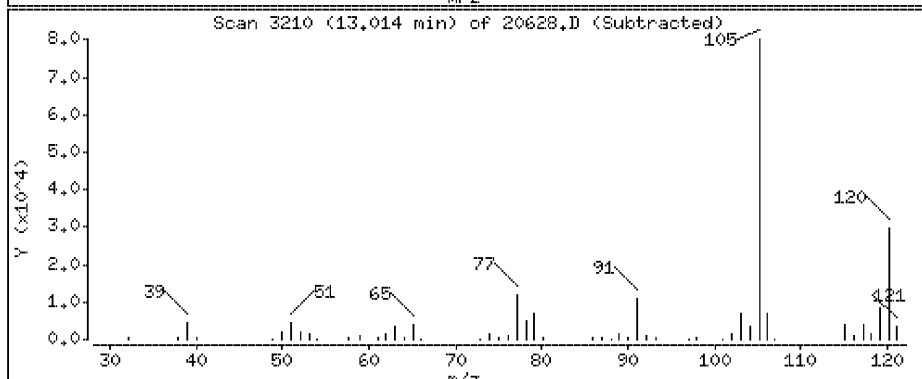
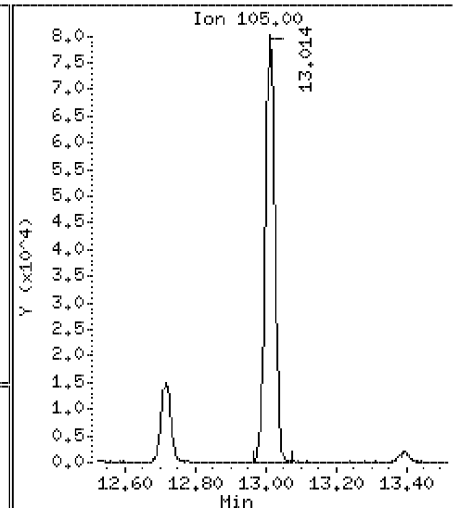
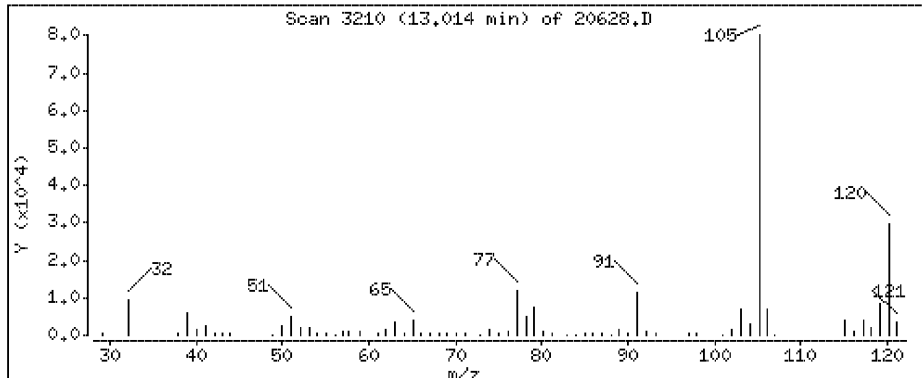
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

67 1,2,4-Trimethylbenzene

Concentration: 2.86 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20628.D

Date : 26-JUL-2013 02:32

Client ID:

Instrument: 10airD.i

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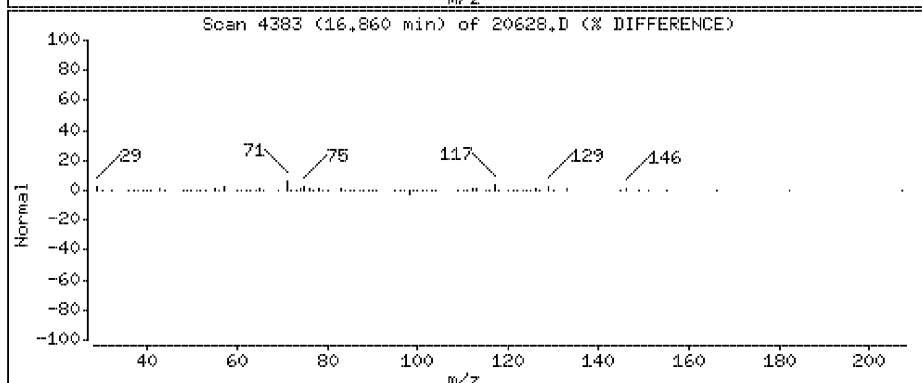
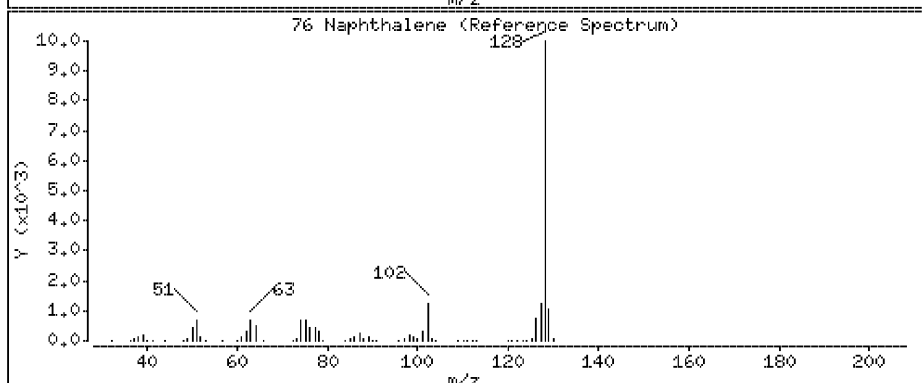
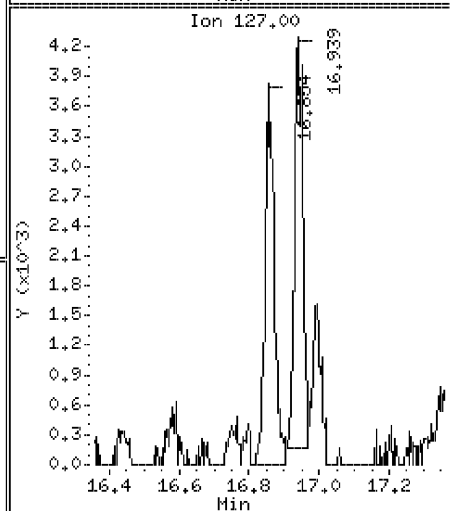
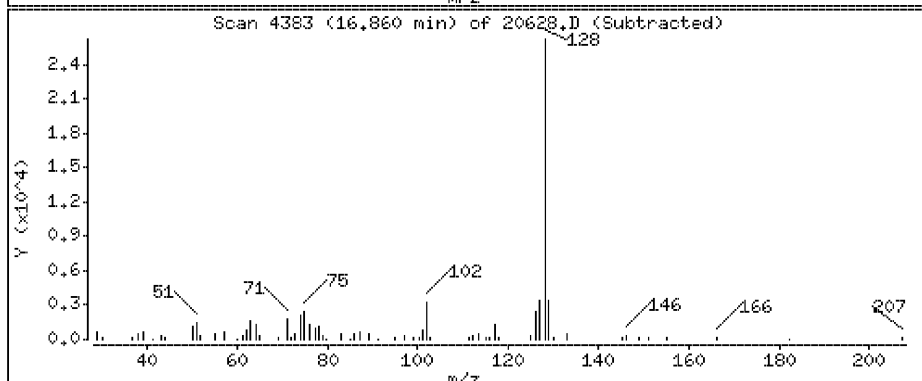
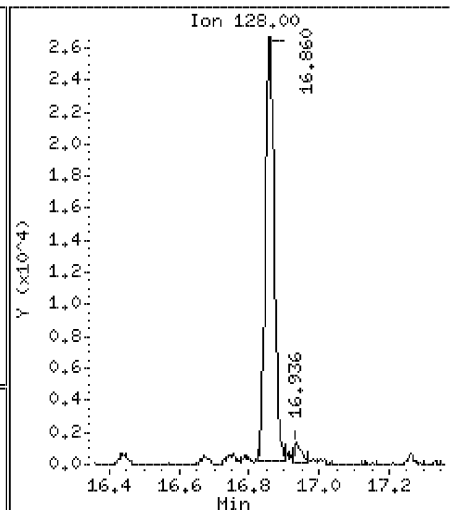
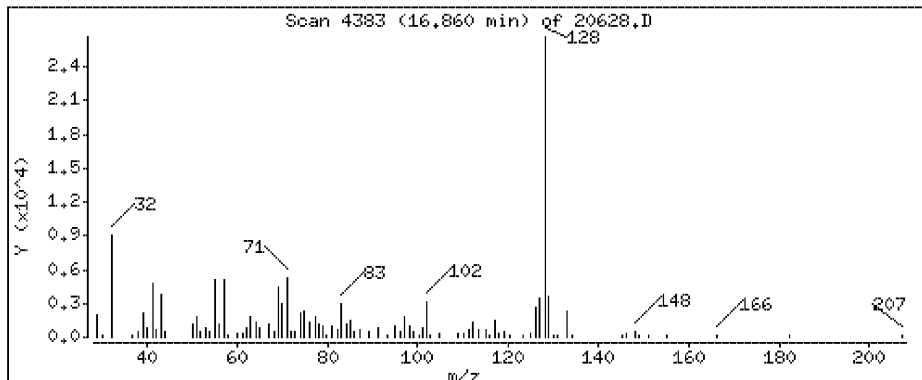
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

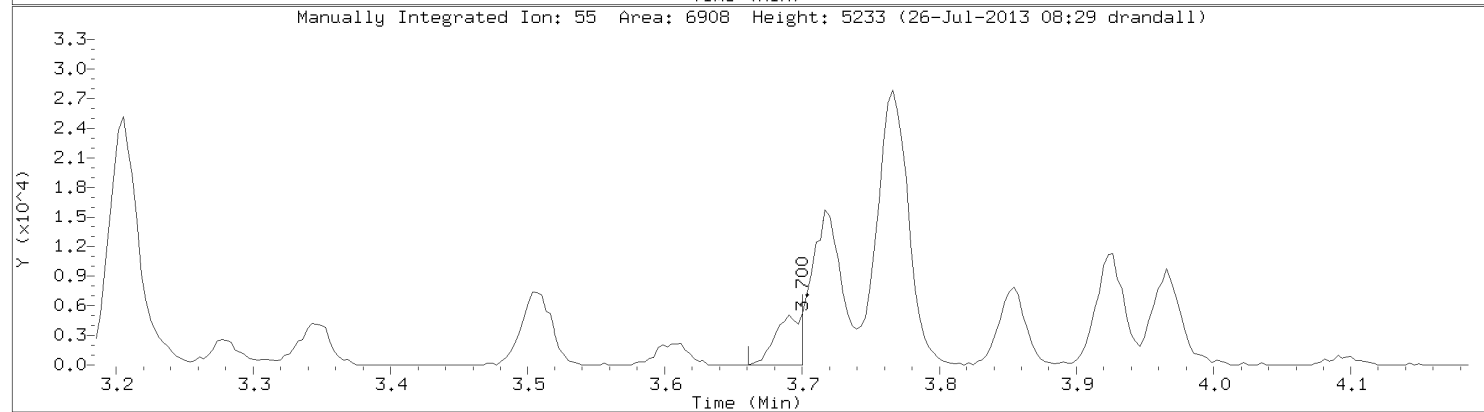
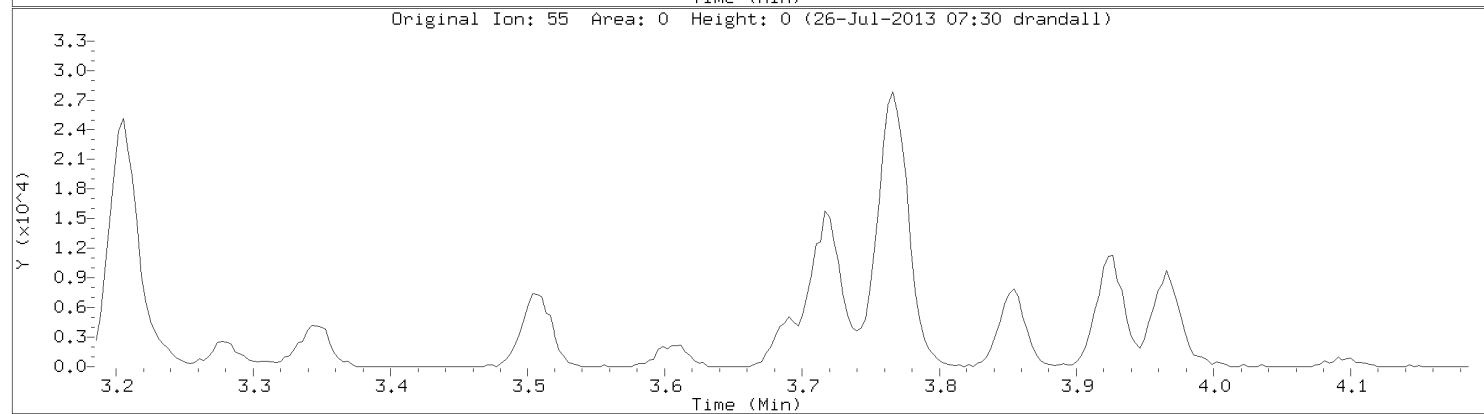
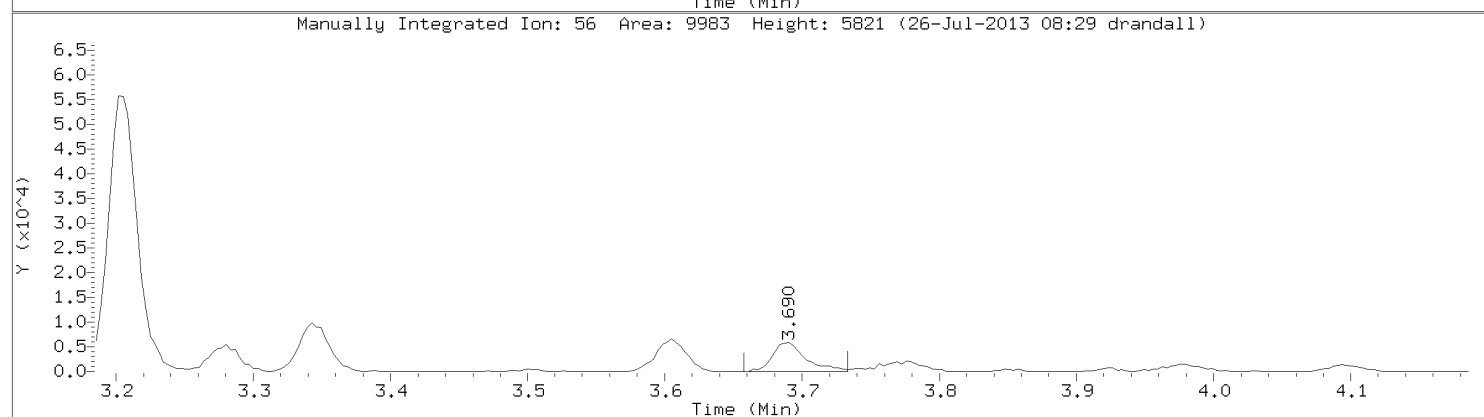
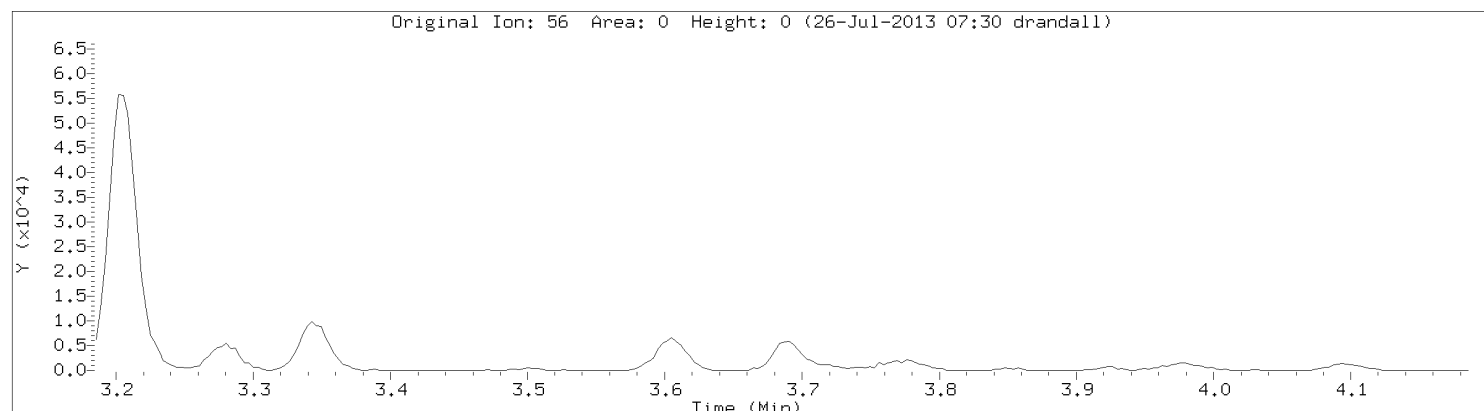
76 Naphthalene

Concentration: 2.02 ppbv



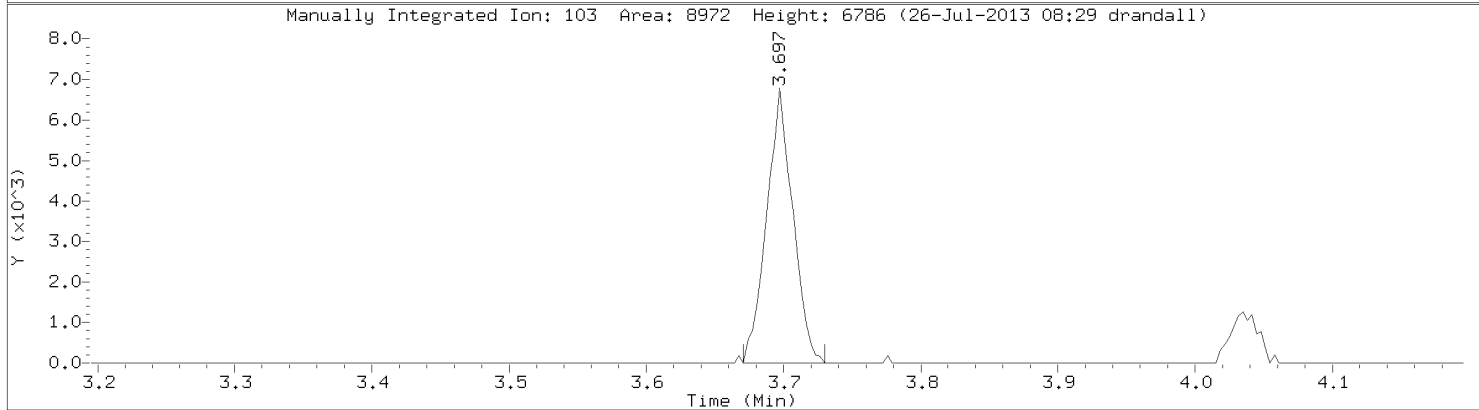
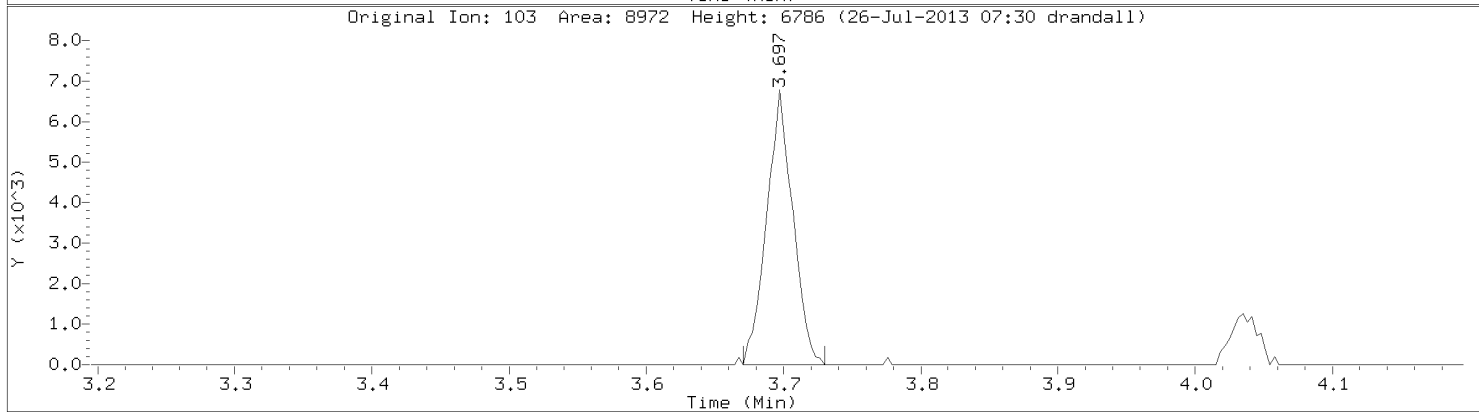
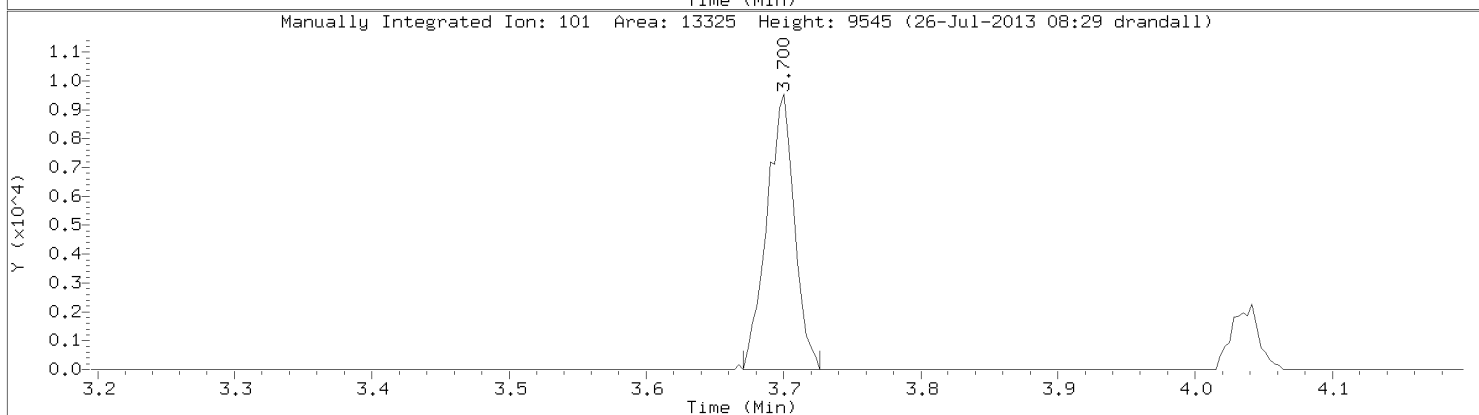
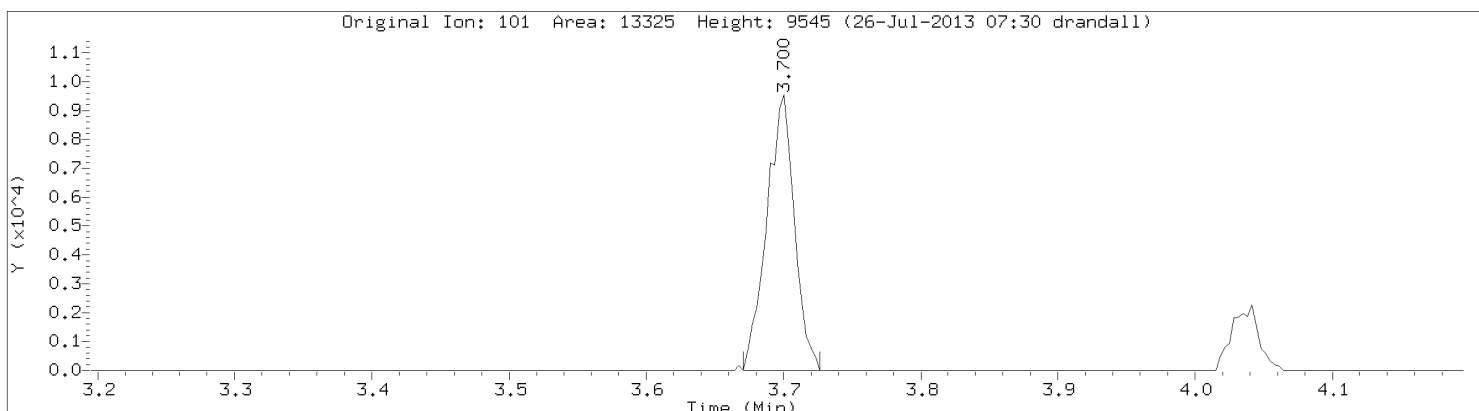
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Injection Date: 26-JUL-2013 02:32
Instrument: 10airD.i
Lab Sample ID: 10236207006

Compound: Acrolein
CAS Number: 107-02-08

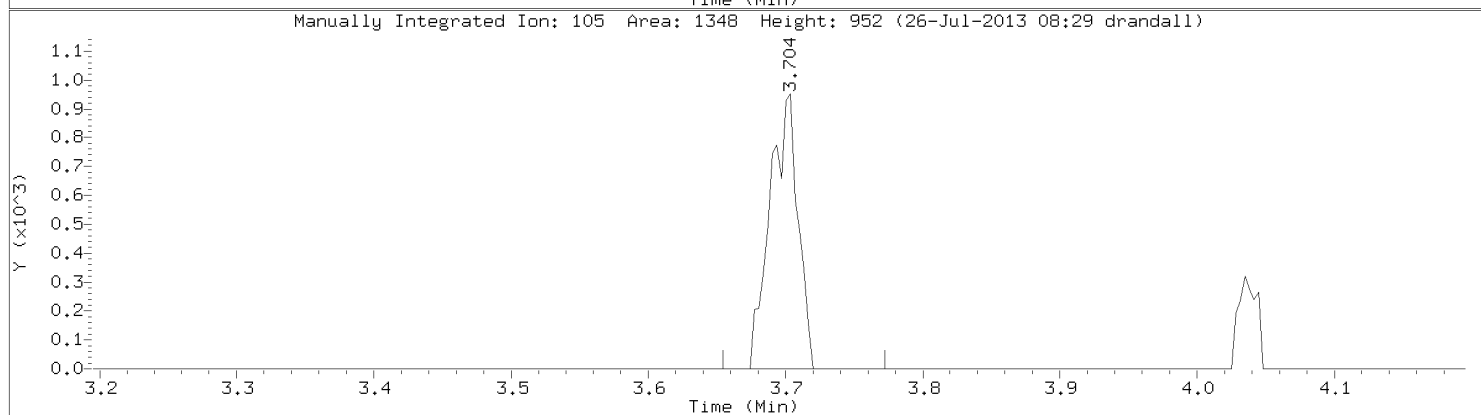
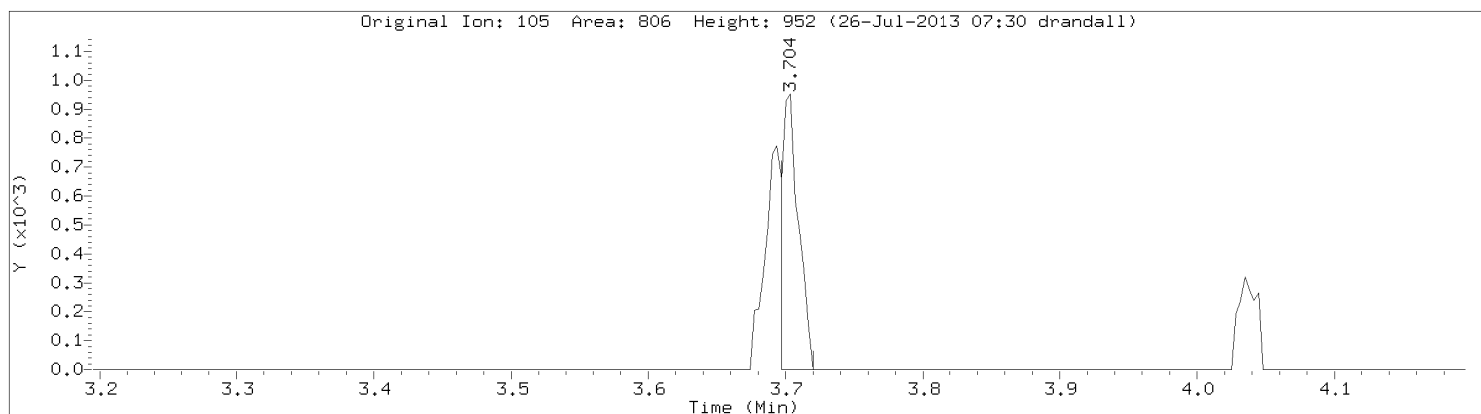


Data File: \\192.168.10.12\chem\10airD.i\072513.b\20628.d
Injection Date: 26-JUL-2013 02:32
Instrument: 10airD.i
Lab Sample ID: 10236207006

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

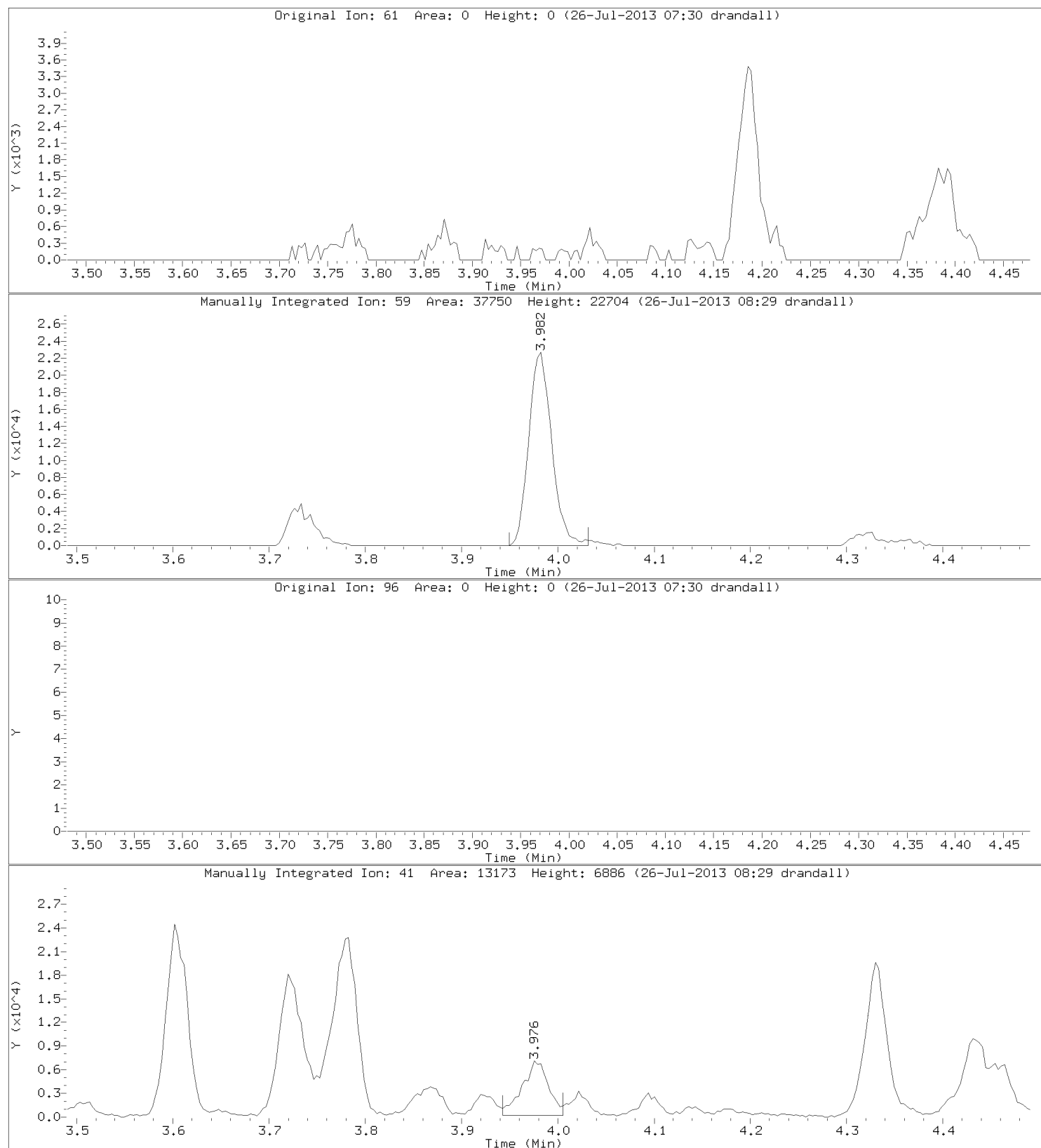


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Injection Date: 26-JUL-2013 02:32
Instrument: 10airD.i
Lab Sample ID: 10236207006



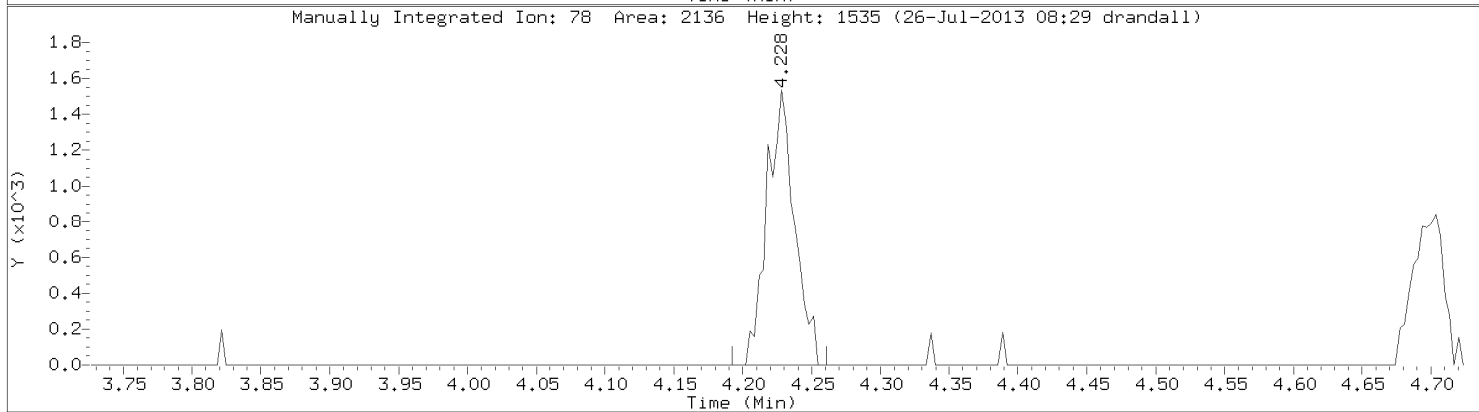
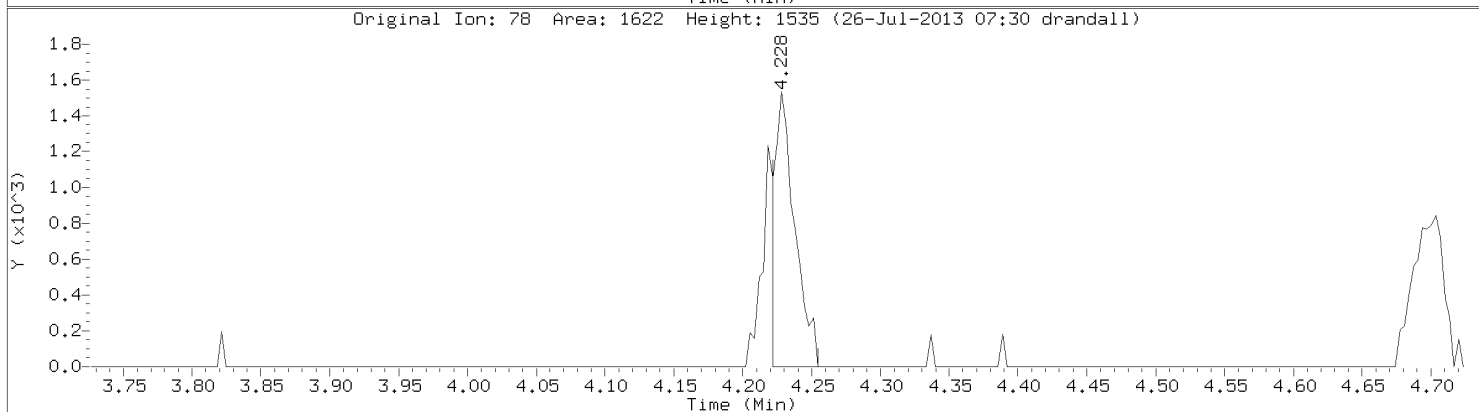
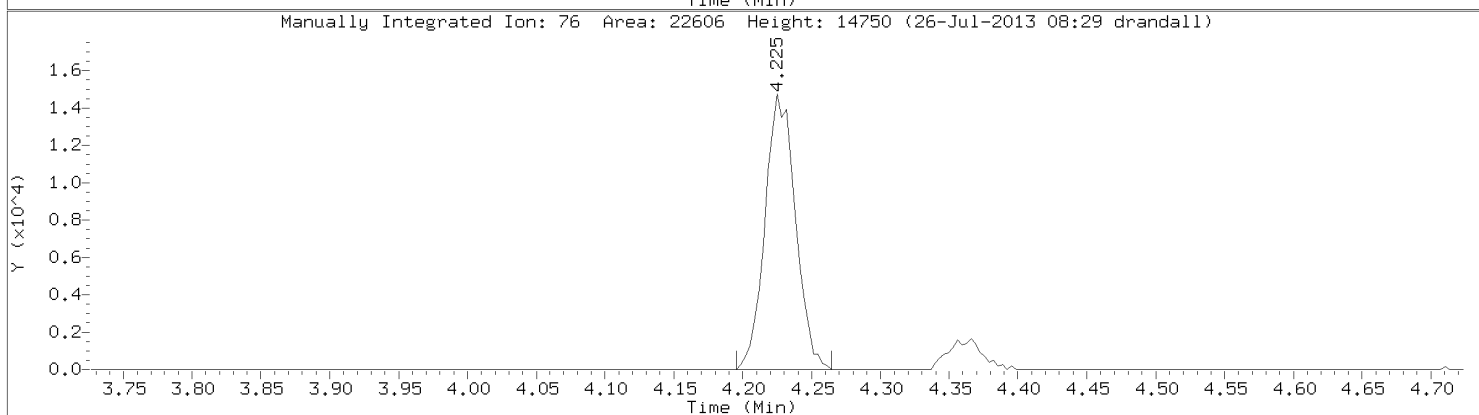
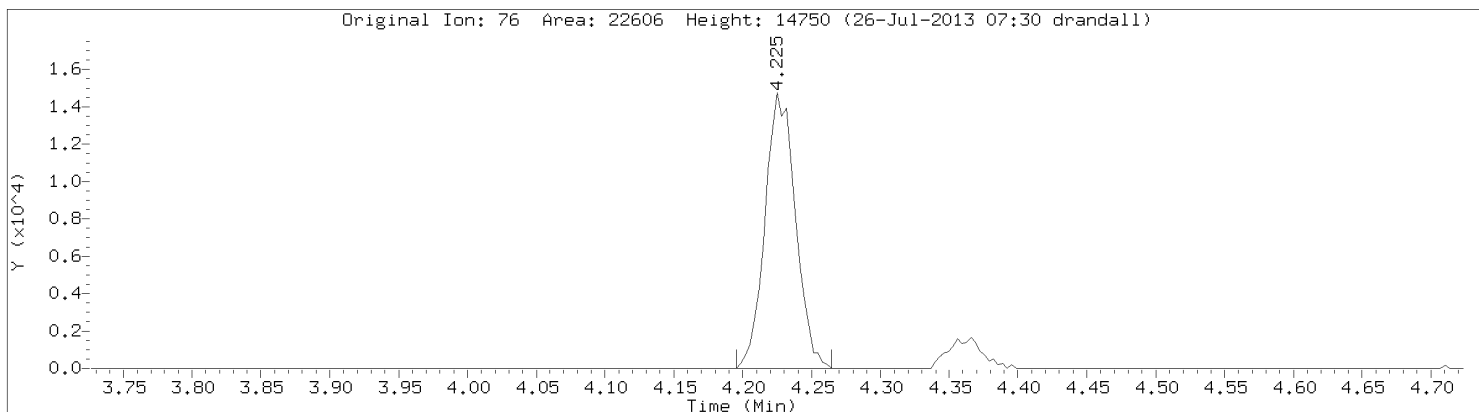
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Injection Date: 26-JUL-2013 02:32
Instrument: 10airD.i
Lab Sample ID: 10236207006

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



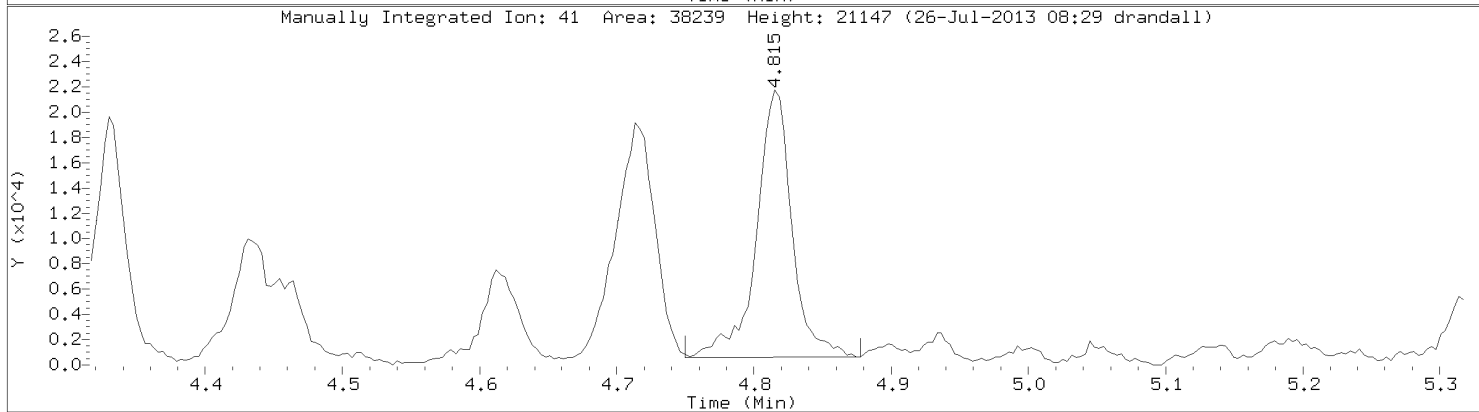
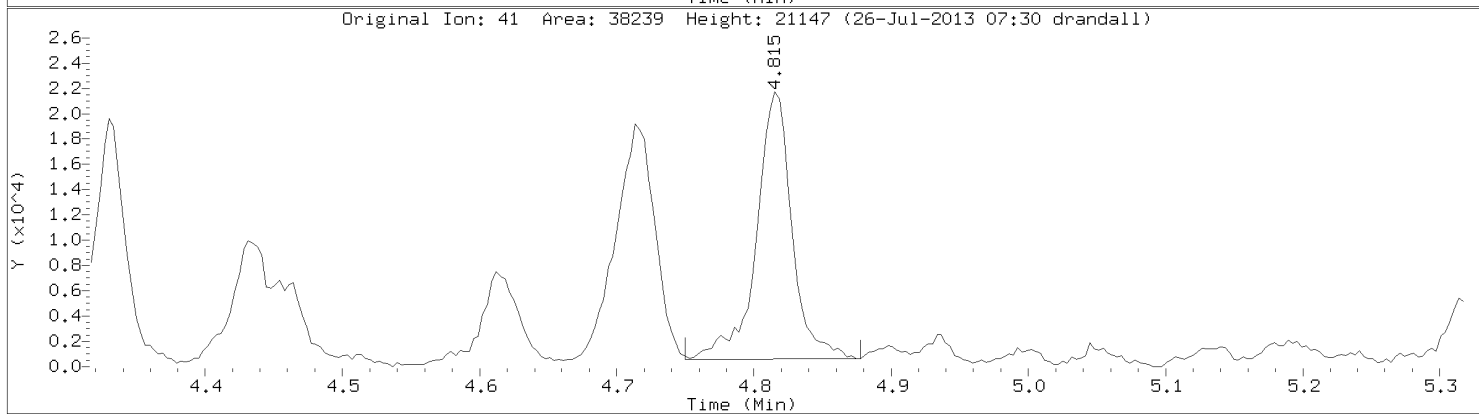
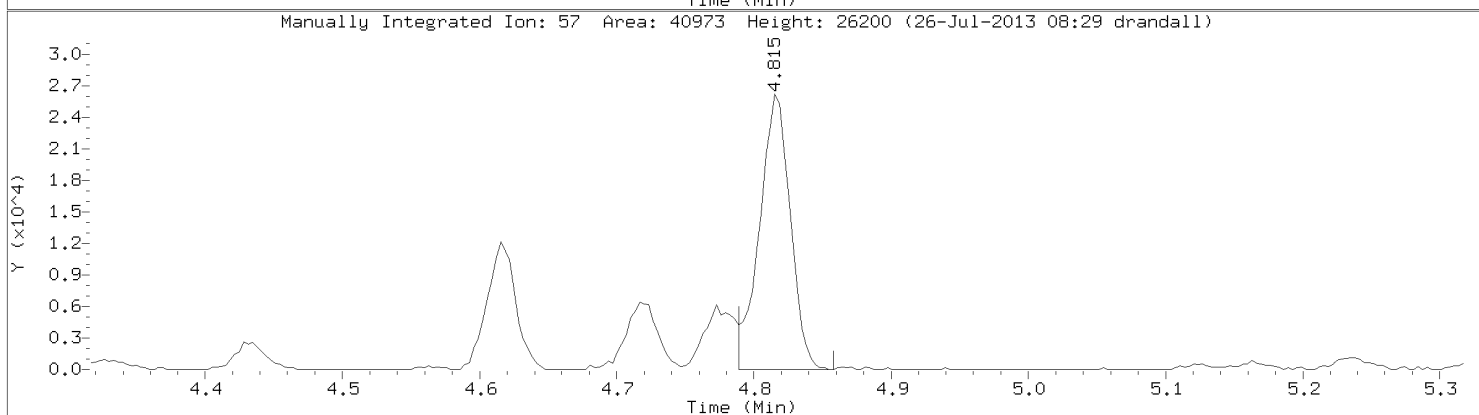
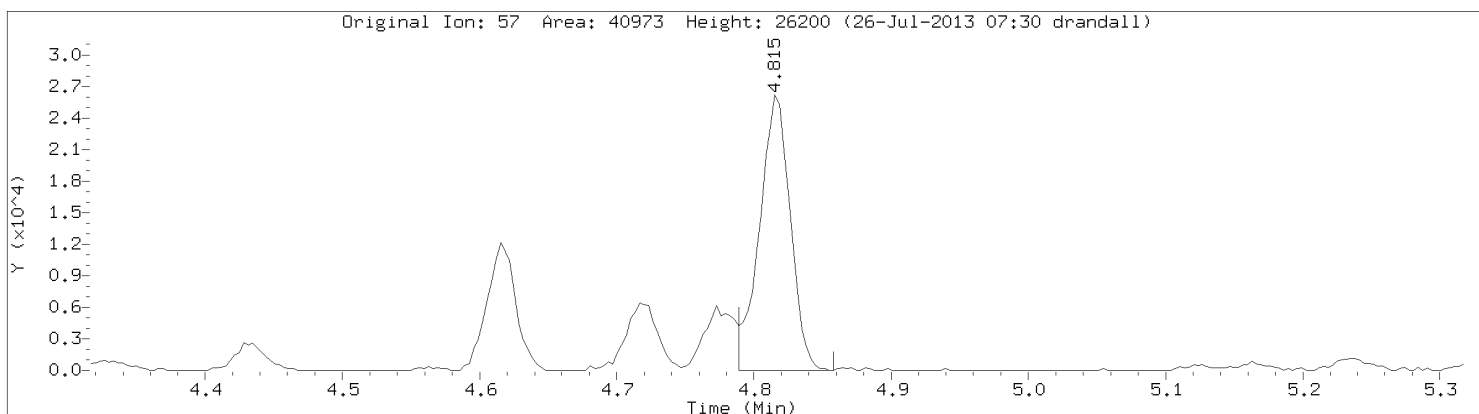
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Injection Date: 26-JUL-2013 02:32
Instrument: 10airD.i
Lab Sample ID: 10236207006

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

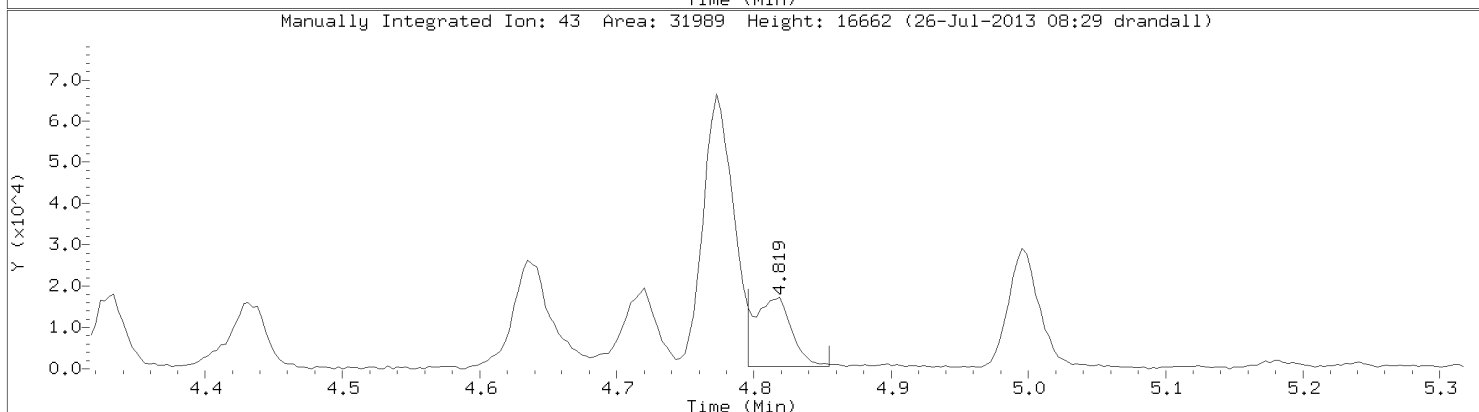
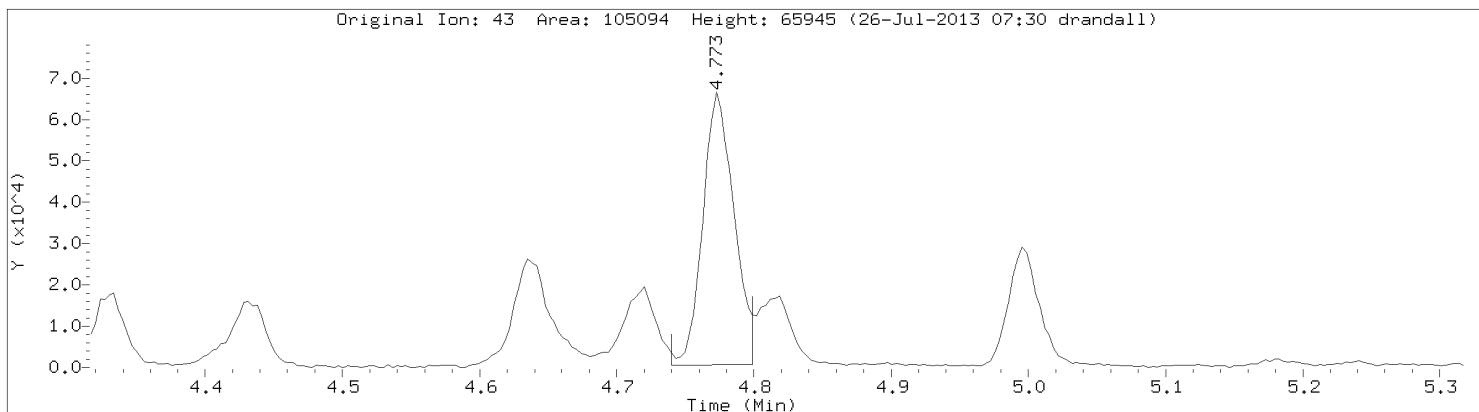


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Injection Date: 26-JUL-2013 02:32
Instrument: 10airD.i
Lab Sample ID: 10236207006

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

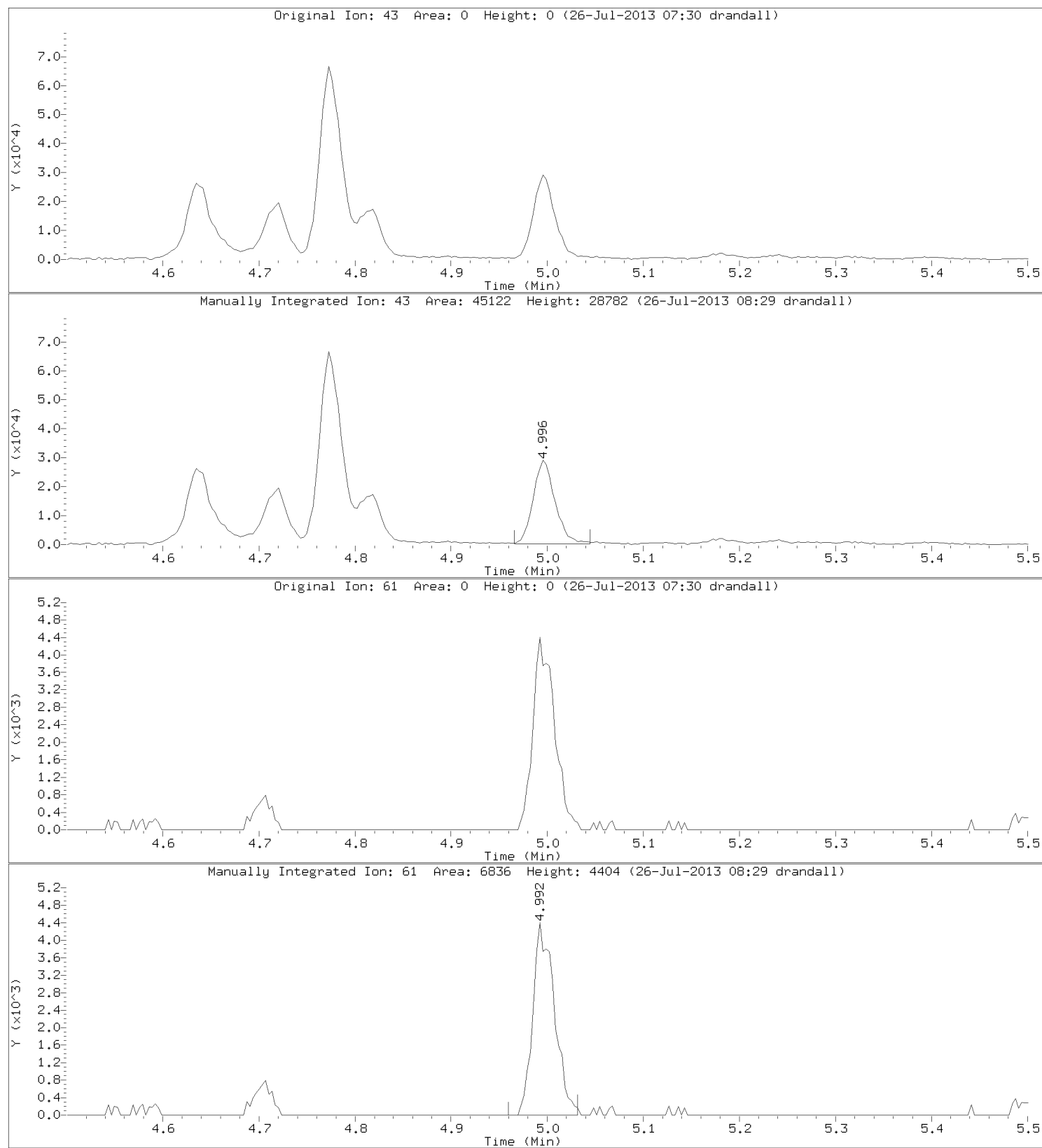


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Instrument: 10airD.i
Lab Sample ID: 10236207006

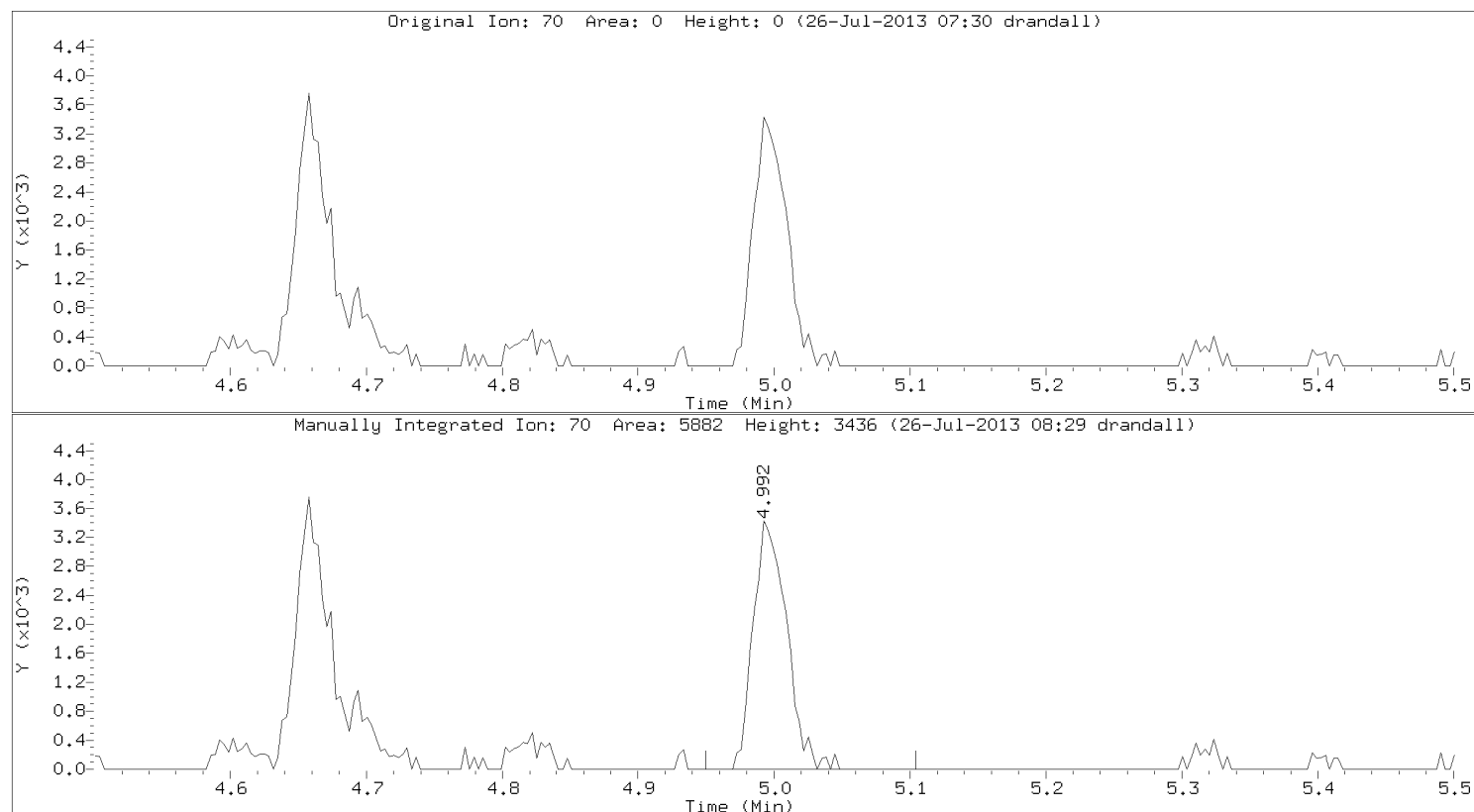


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Injection Date: 26-JUL-2013 02:32
Instrument: 10airD.i
Lab Sample ID: 10236207006

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

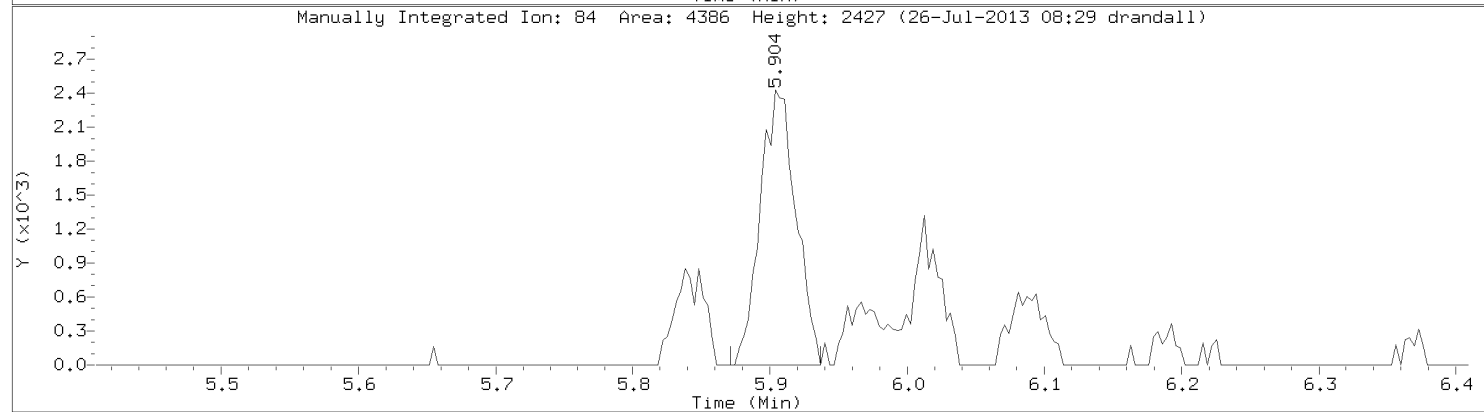
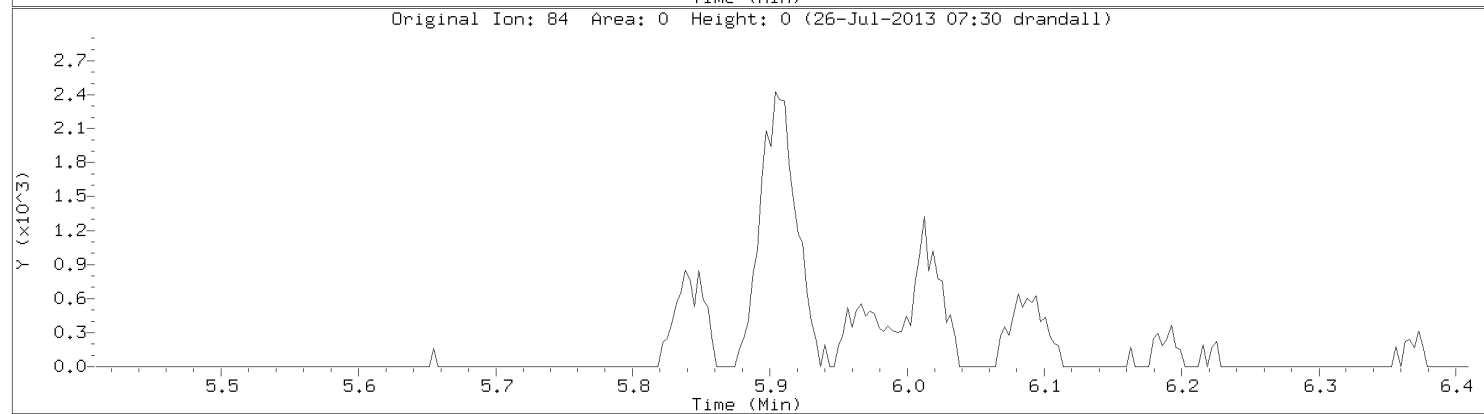
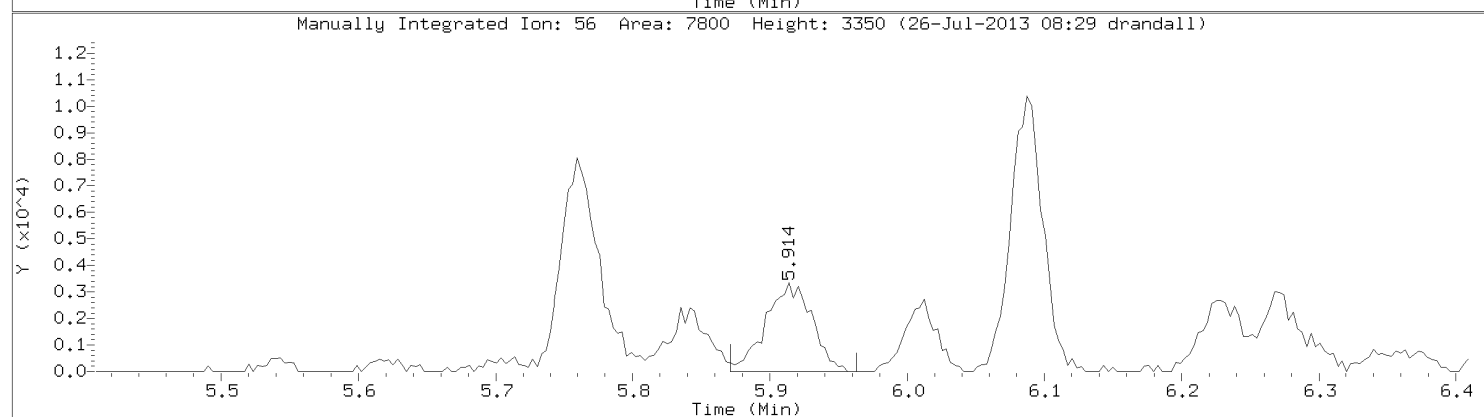
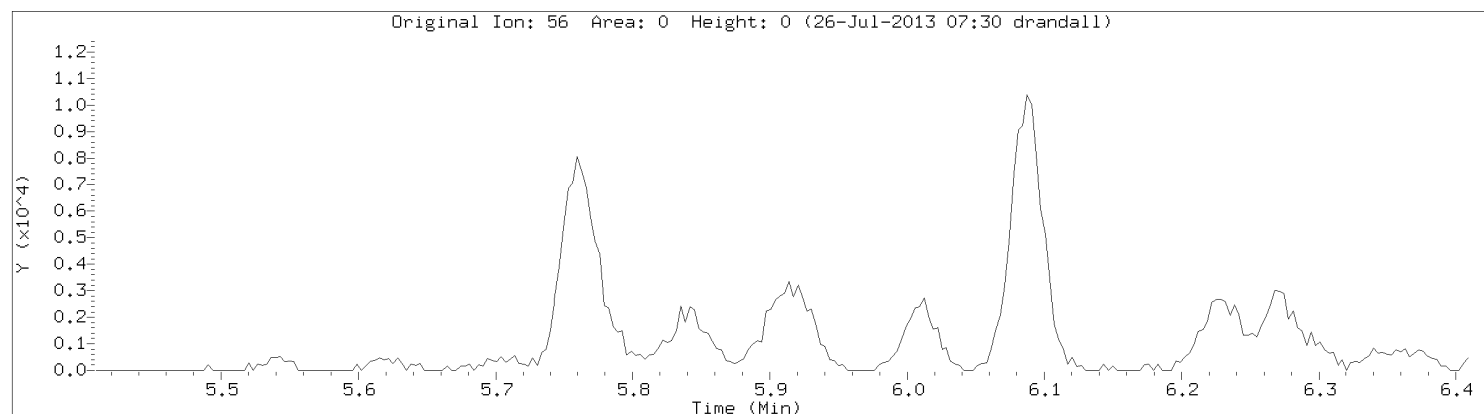


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Lab Sample ID: 10236207006

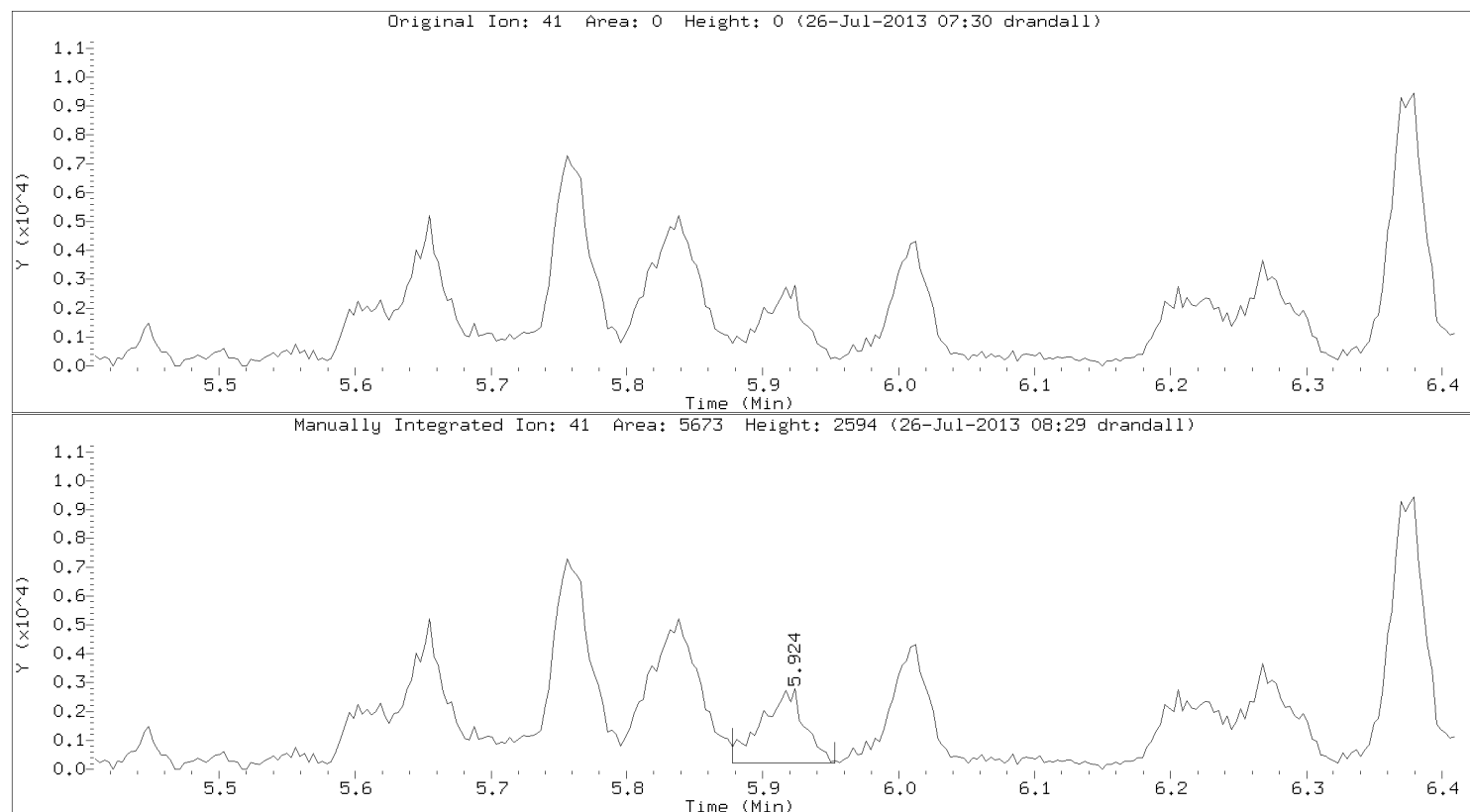


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Injection Date: 26-JUL-2013 02:32
Instrument: 10airD.i
Lab Sample ID: 10236207006

Compound: Cyclohexane
CAS Number: 110-82-7

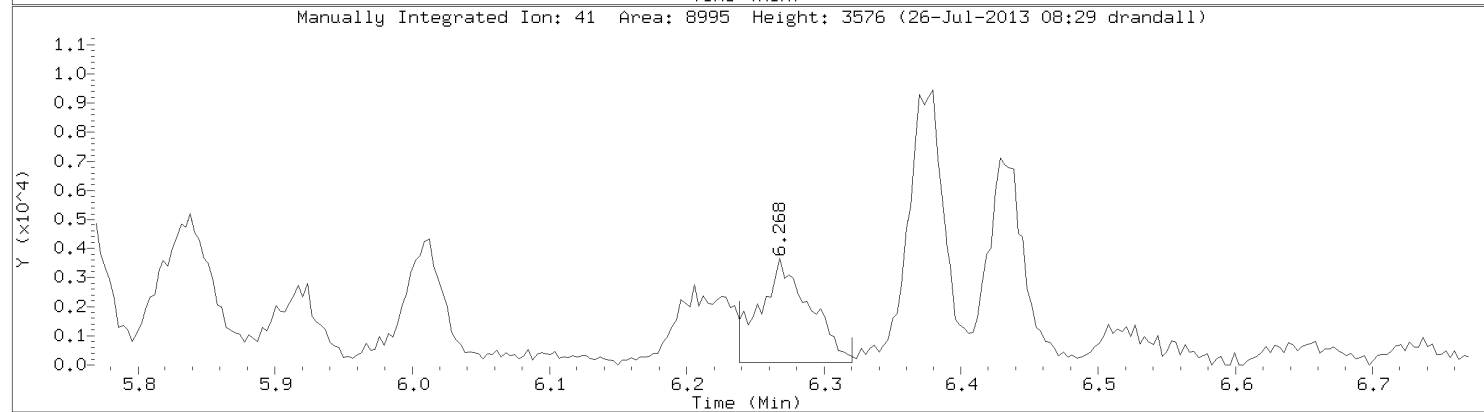
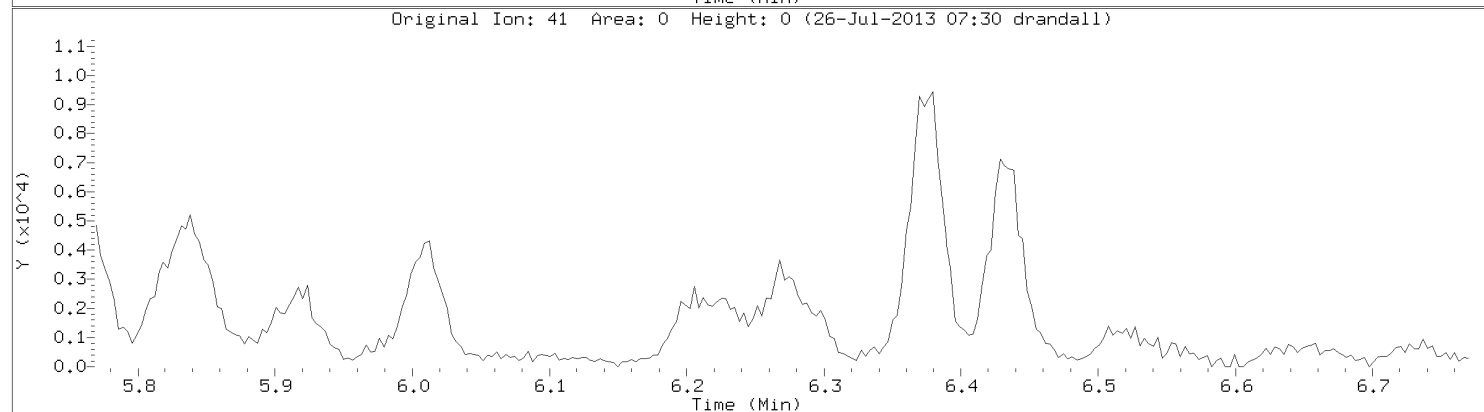
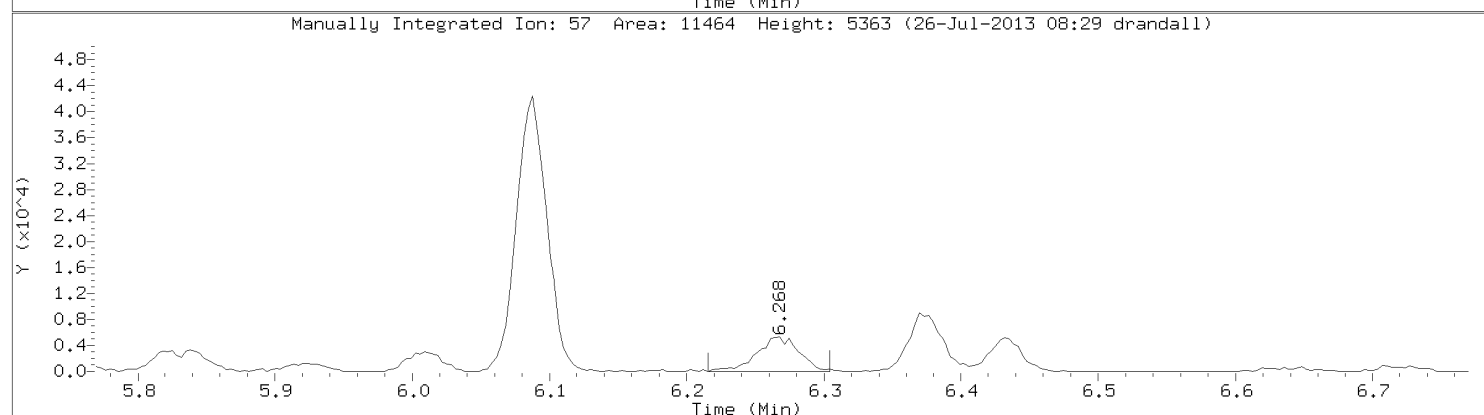
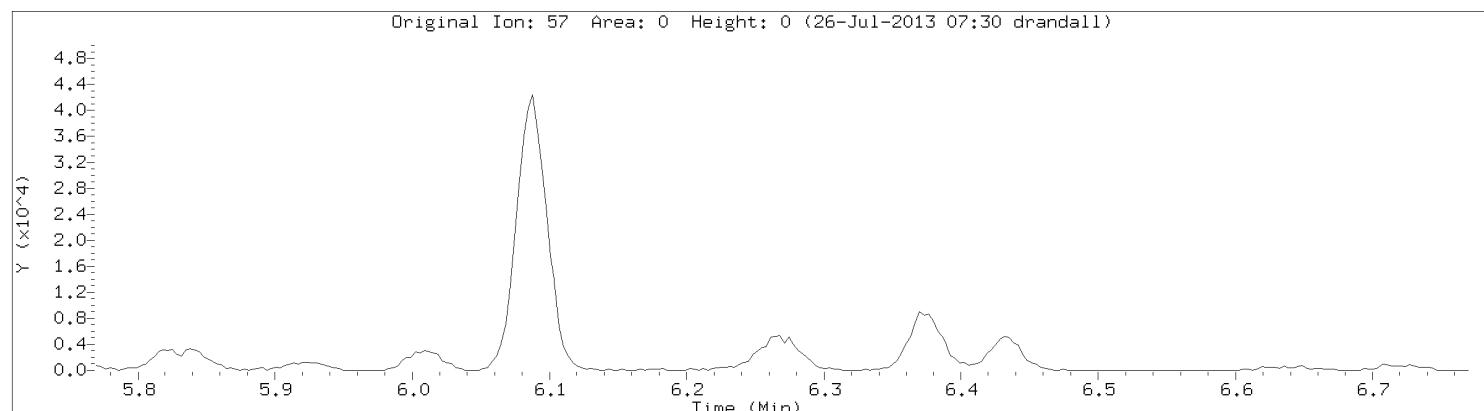


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Lab Sample ID: 10236207006

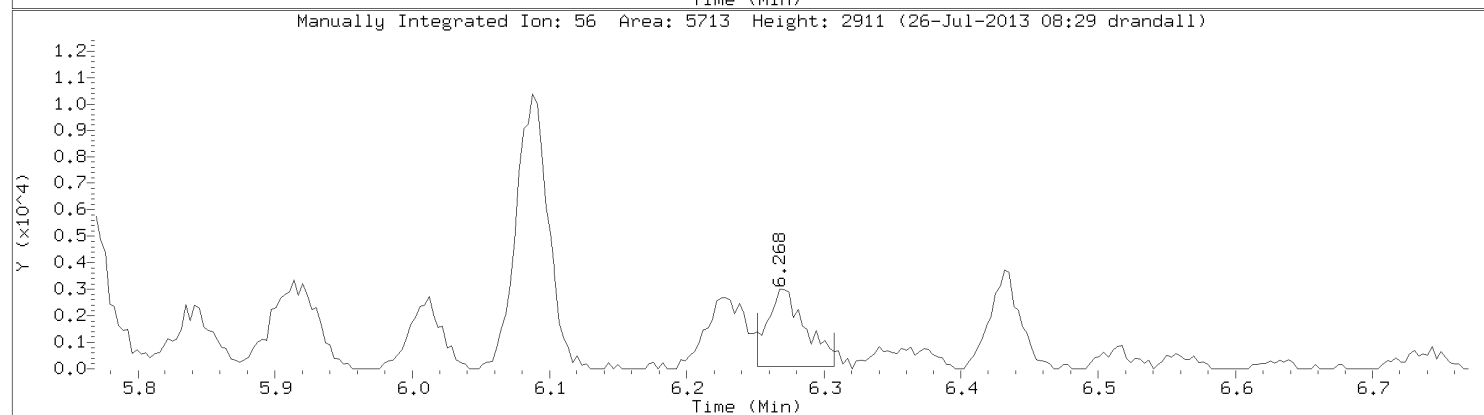
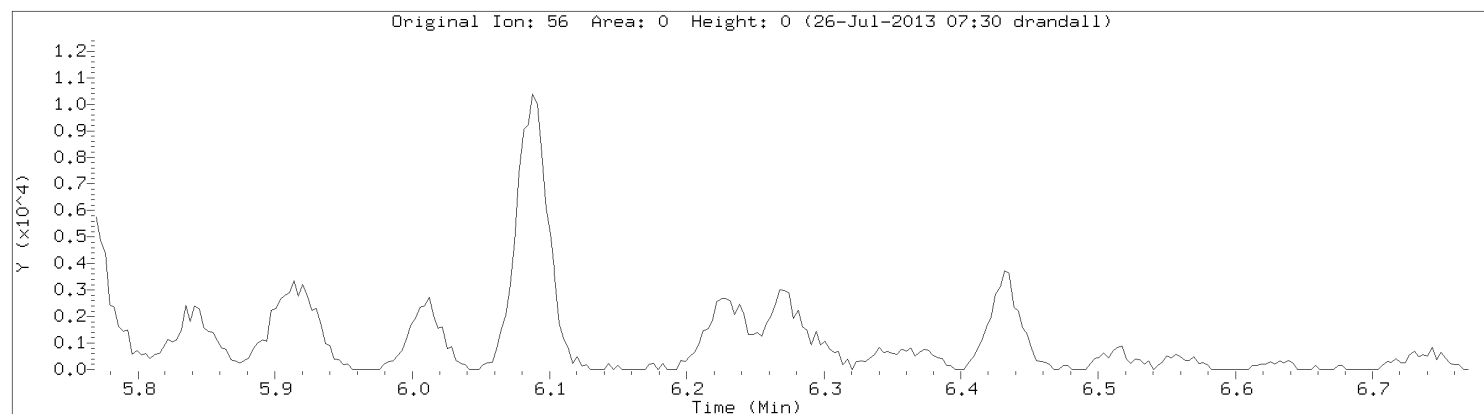


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Injection Date: 26-JUL-2013 02:32
Instrument: 10airD.i
Lab Sample ID: 10236207006

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

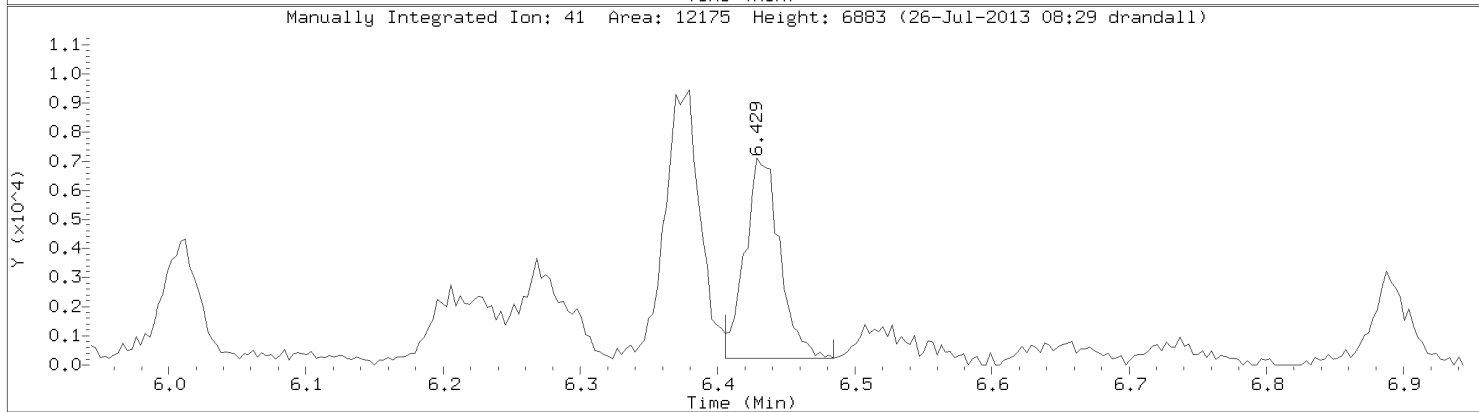
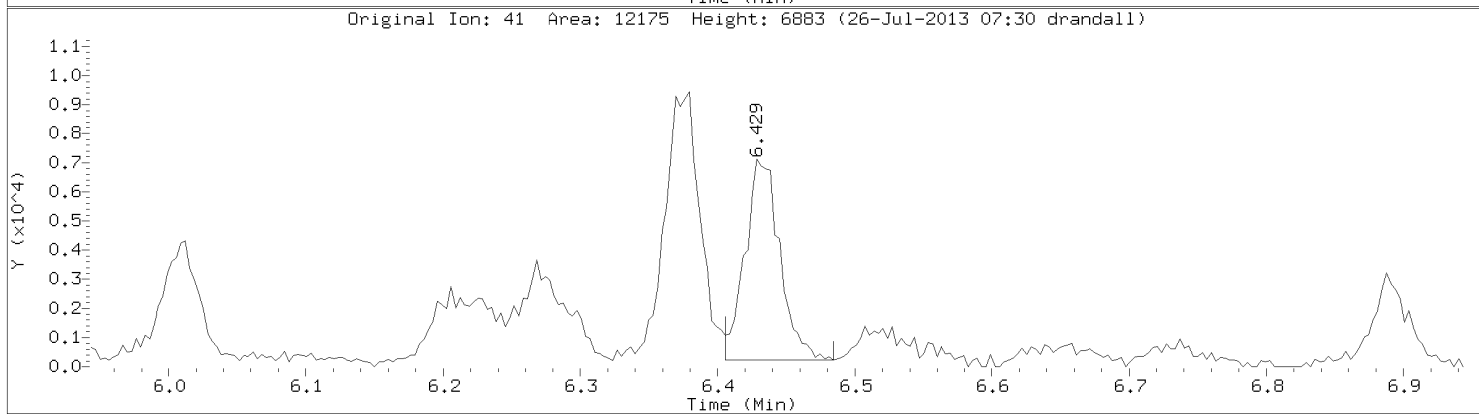
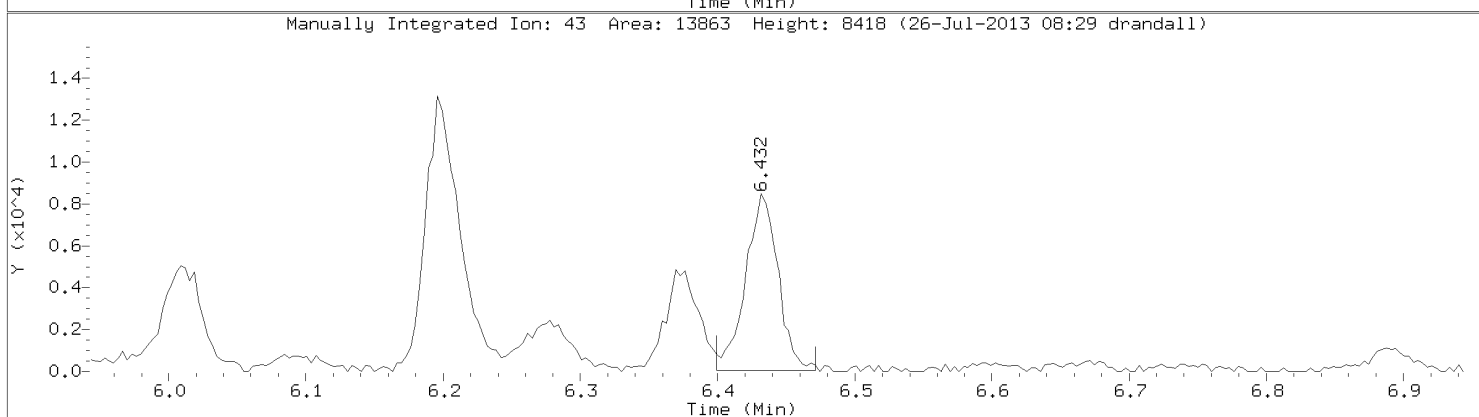
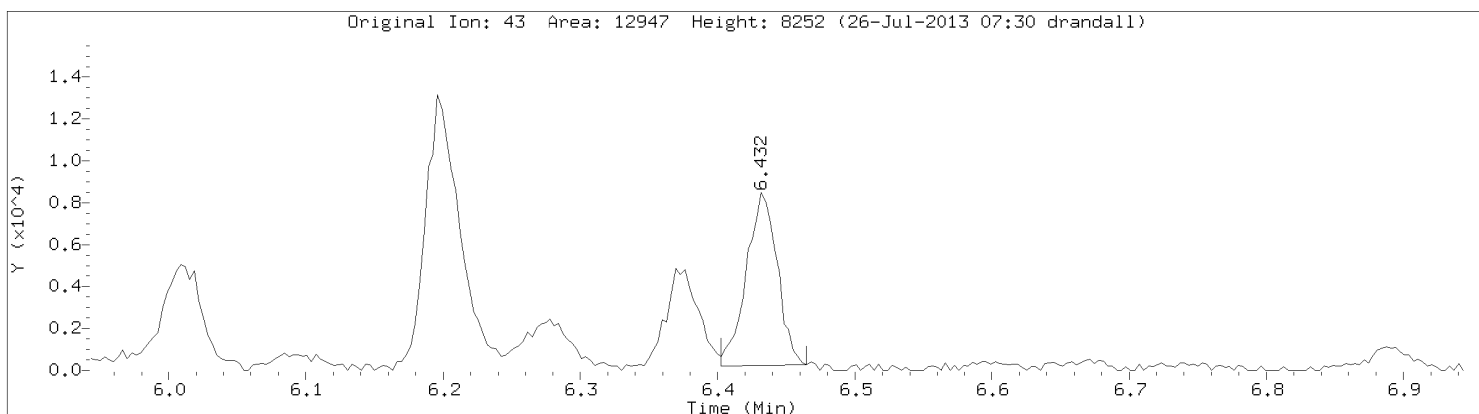


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Lab Sample ID: 10236207006



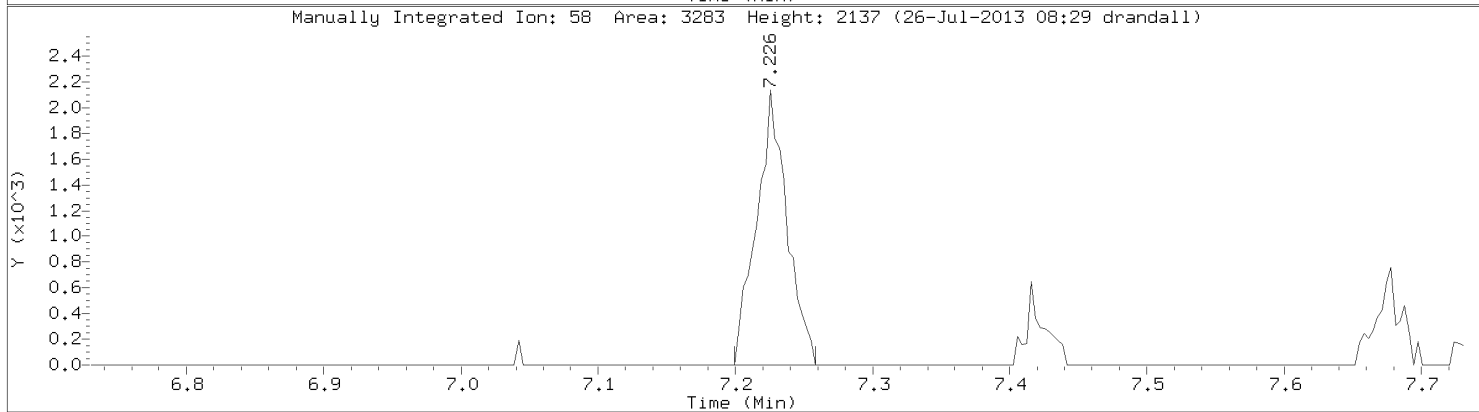
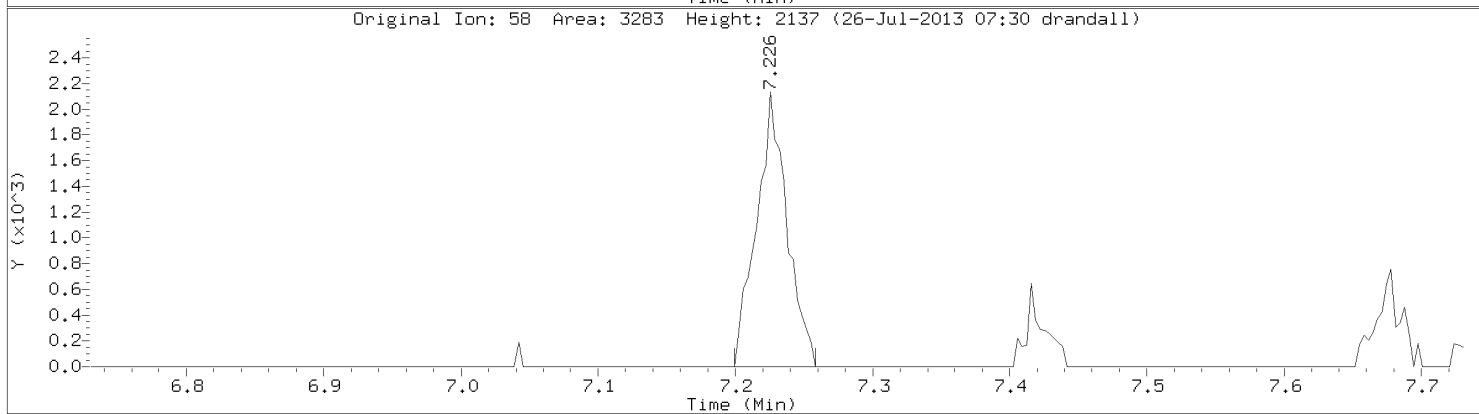
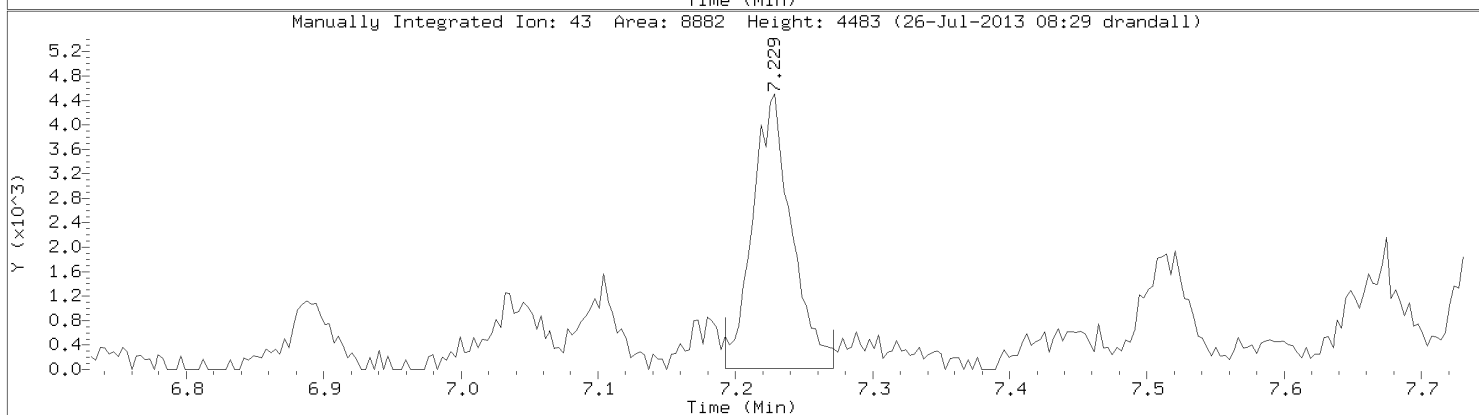
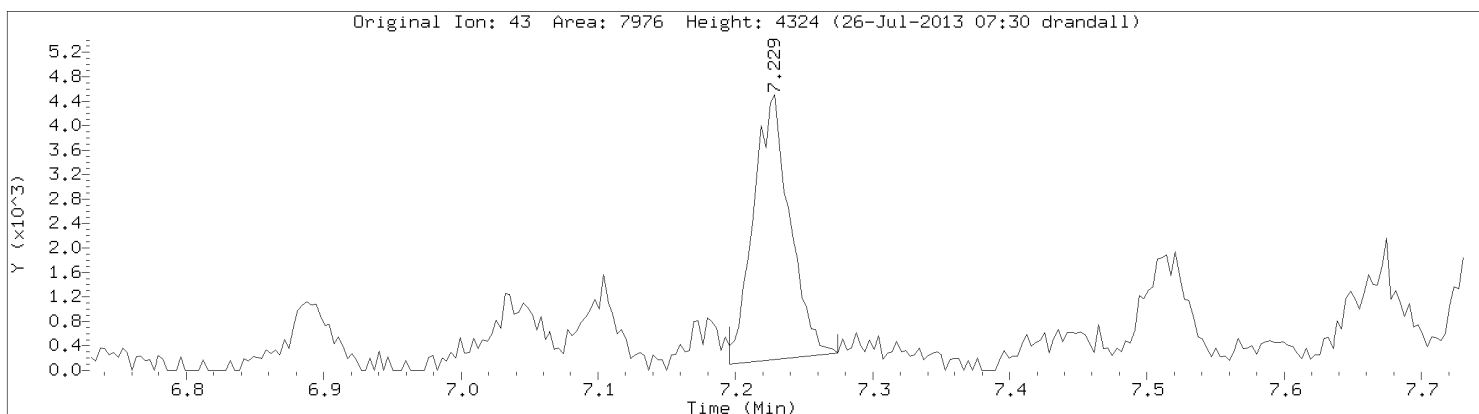
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Injection Date: 26-JUL-2013 02:32
Instrument: 10airD.i
Lab Sample ID: 10236207006

Compound: Heptane
CAS Number: 142-82-5

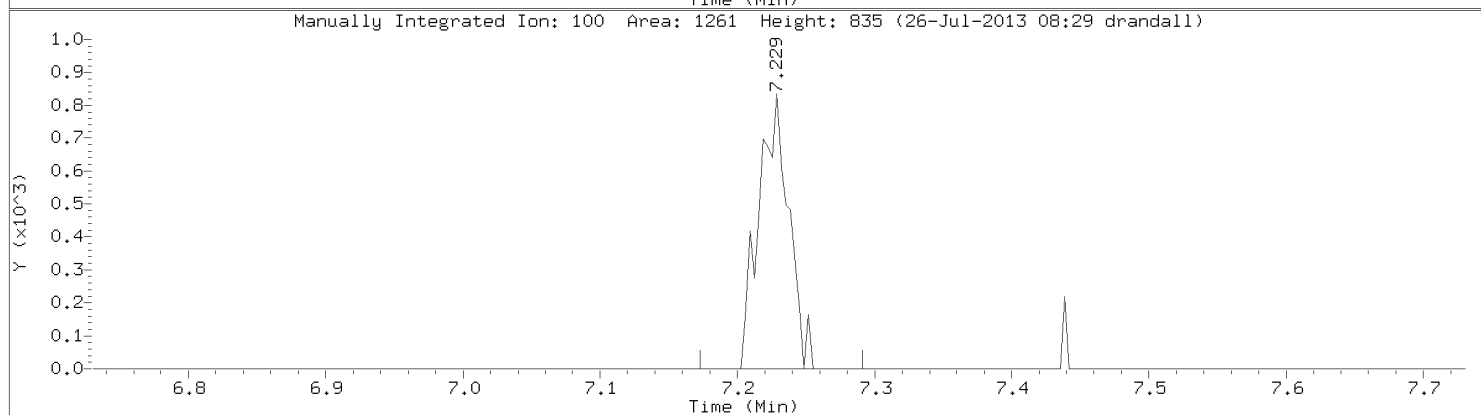
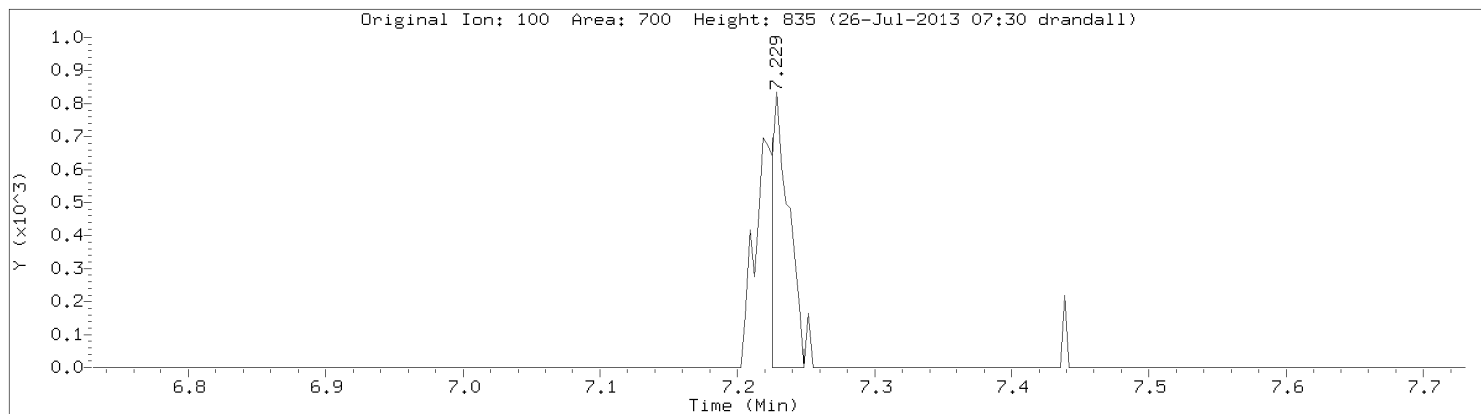


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Injection Date: 26-JUL-2013 02:32
Instrument: 10airD.i
Lab Sample ID: 10236207006

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

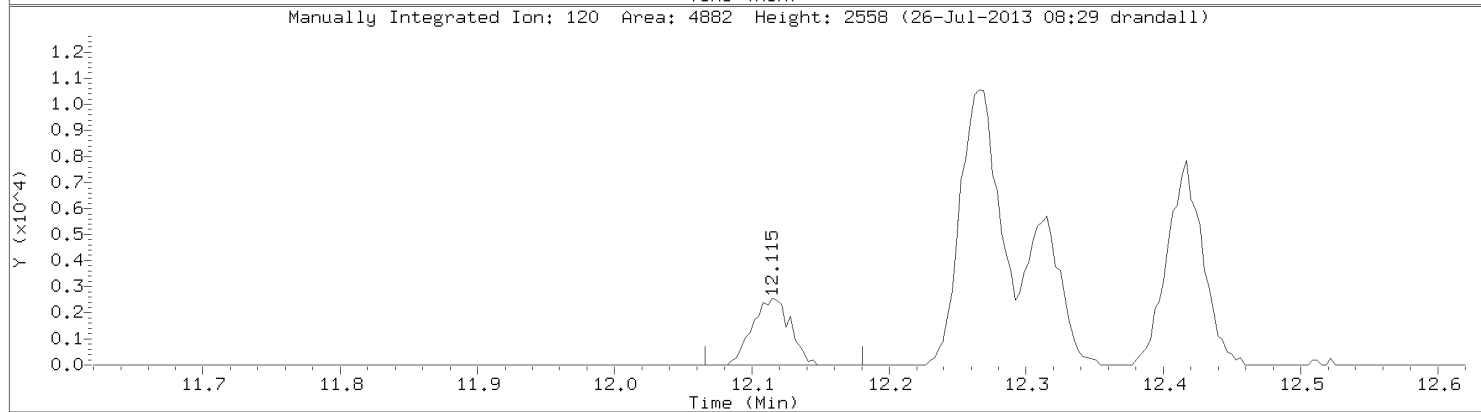
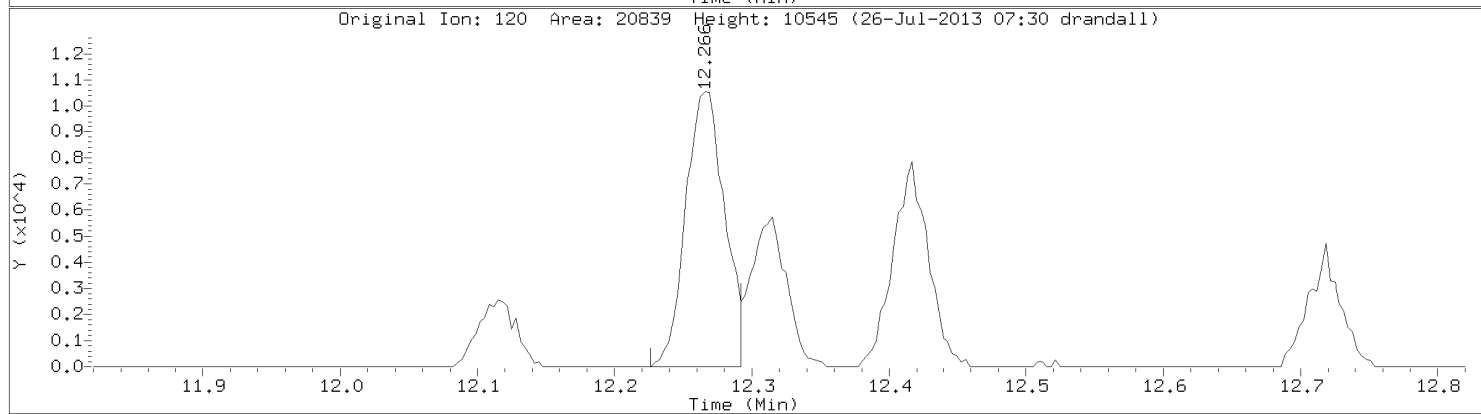
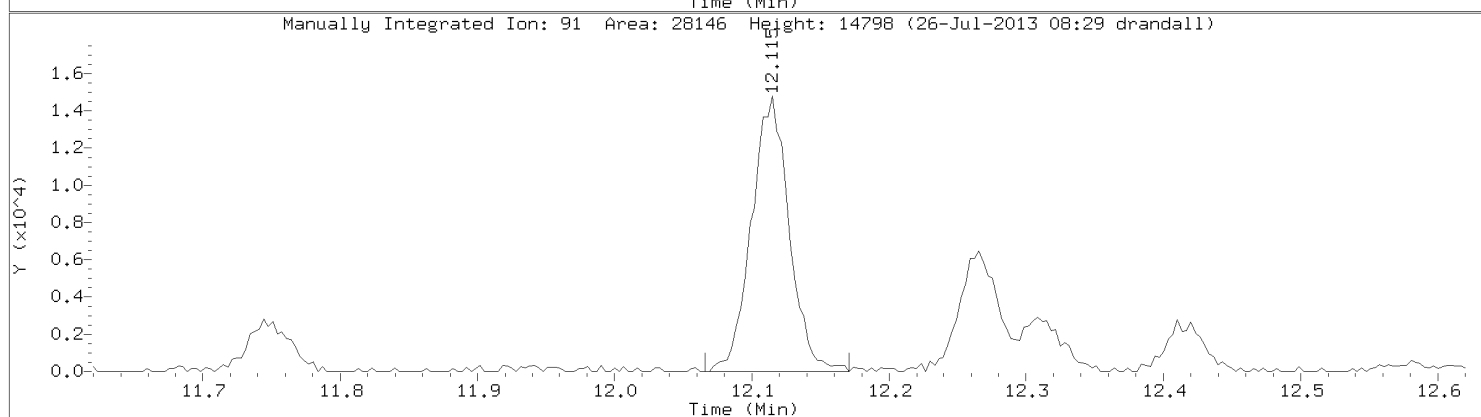
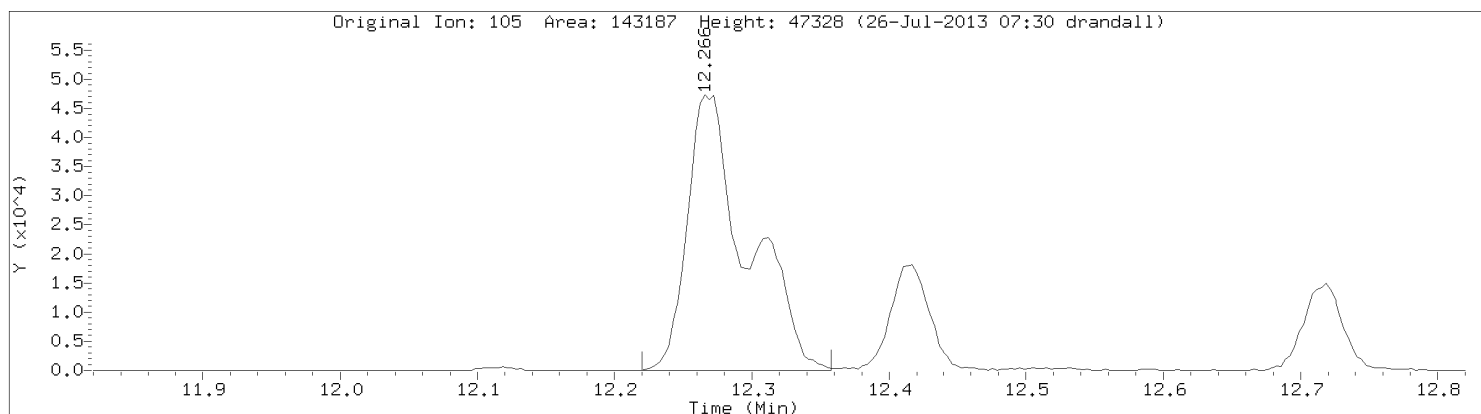


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Injection Date: 26-JUL-2013 02:32
Instrument: 10airD.i
Lab Sample ID: 10236207006



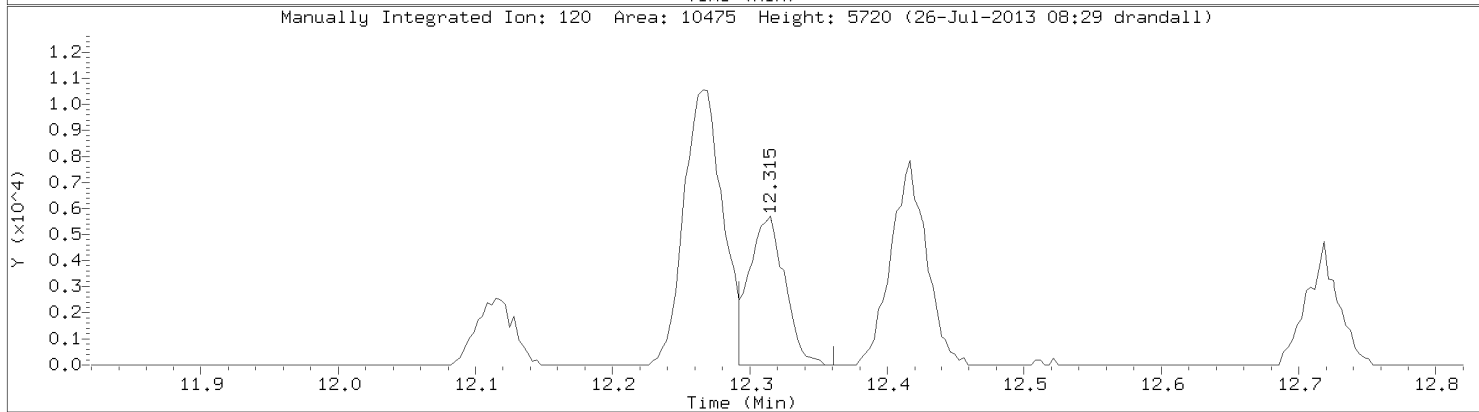
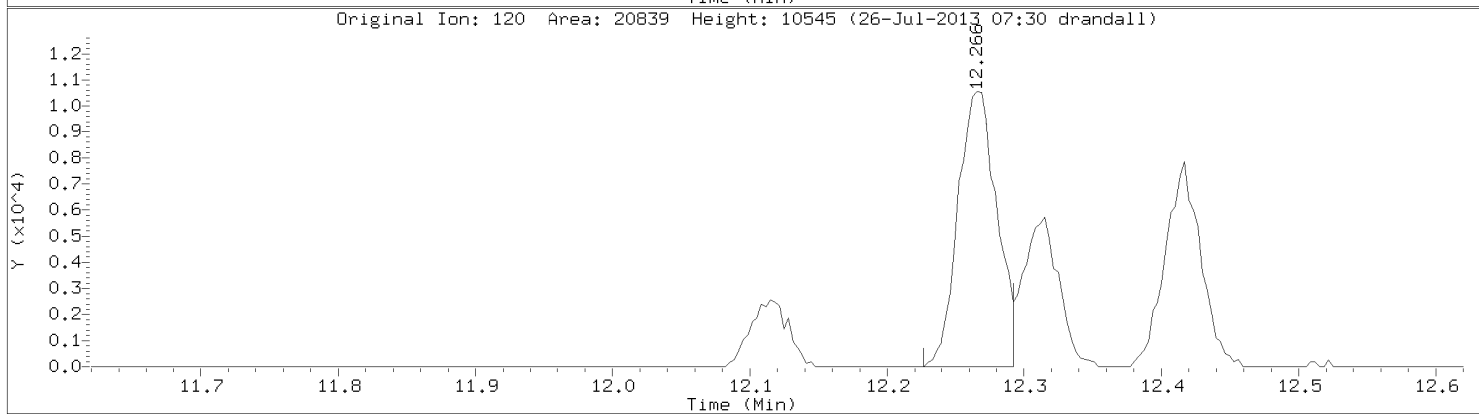
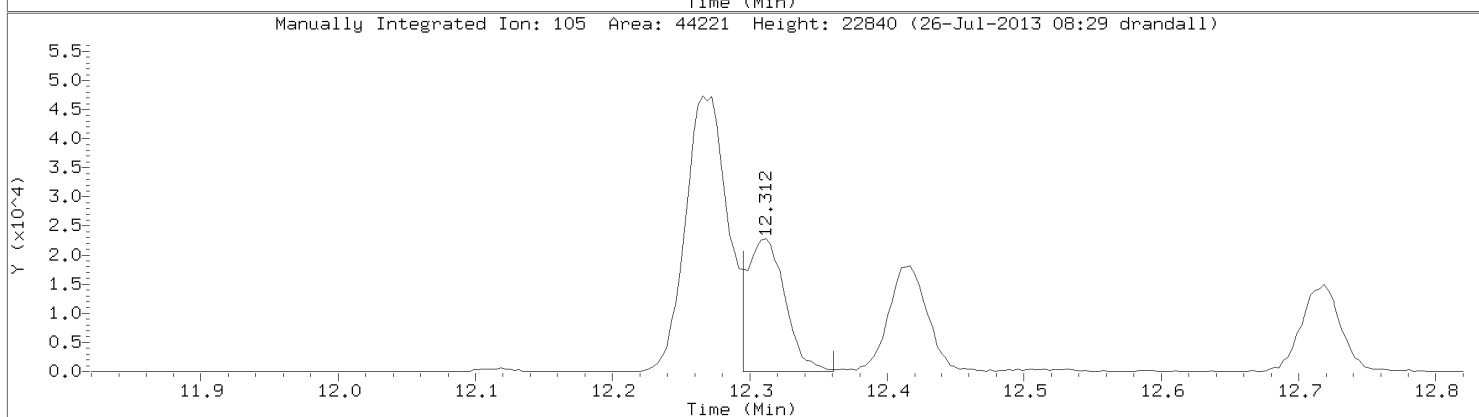
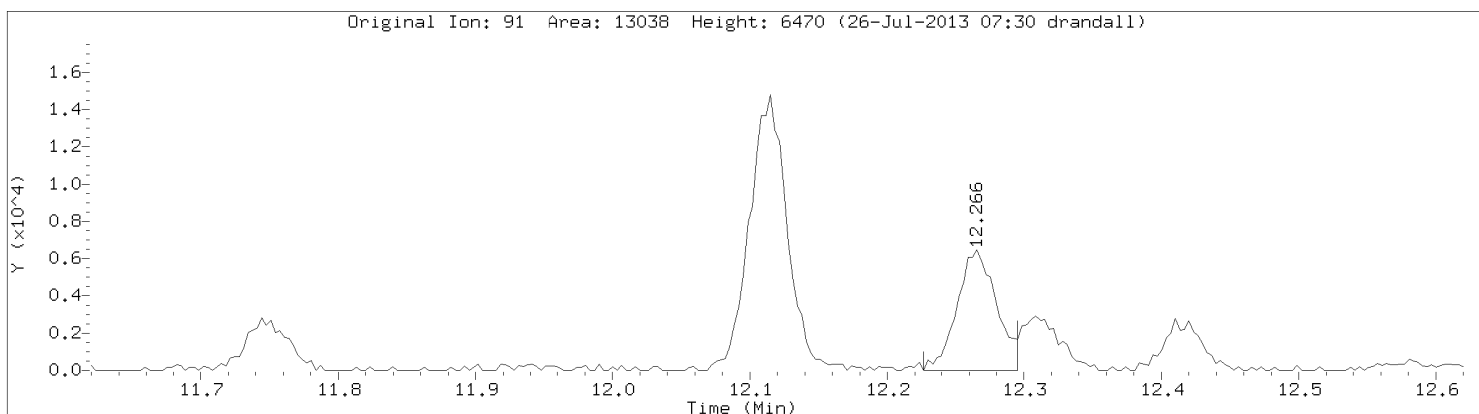
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Injection Date: 26-JUL-2013 02:32
Instrument: 10airD.i
Lab Sample ID: 10236207006

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

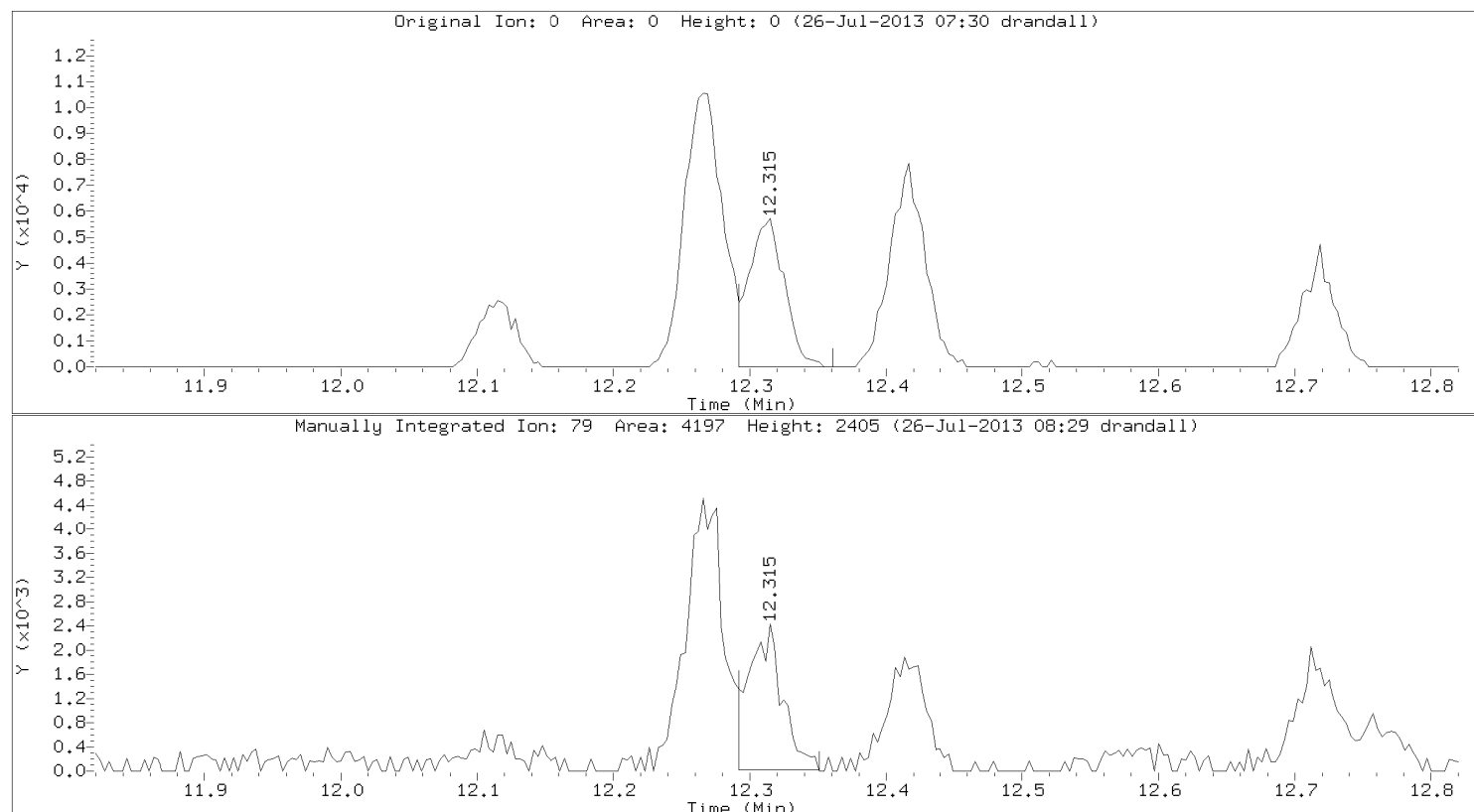


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Injection Date: 26-JUL-2013 02:32
Instrument: 10airD.i
Lab Sample ID: 10236207006

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



Data File: \\192.168.10.12\chem\10airD.i\072513.b\20628.d
Injection Date: 26-JUL-2013 02:32
Instrument: 10airD.i
Lab Sample ID: 10236207006



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072513.b\20623.d
 Lab Smp Id: 10236207007
 Inj Date : 25-JUL-2013 23:59
 Operator : DR1 Inst ID: 10airD.i
 Smp Info :
 Misc Info : 17870
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
 Meth Date : 25-Jul-2013 16:57 creindl Quant Type: ISTD
 Cal Date : 24-JUL-2013 16:39 Cal File: 20509.d
 Als bottle: 23
 Dil Factor: 1.44000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

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 MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
1 Propylene	41		2.972	2.982	(0.488)	128536	14.1495	20.4
2 Dichlorodifluoromethane	85		2.998	3.008	(0.493)	26671	0.30398	0.438
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		3.506	3.494	(0.576)	19187	1.83561	2.64 (M)
10 Vinyl Bromide	106					Compound Not Detected.		
11 Acrolein	56		3.696	3.684	(0.607)	5360	0.88695	1.28 (QM)
12 Trichlorofluoromethane	101		3.693	3.694	(0.607)	13341	0.13978	0.201 (M)
13 Acetone	43		3.732	3.726	(0.613)	314576	6.57548	9.47 (M)
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		3.985	3.989	(0.655)	32676	0.65105	0.938 (M)
18 Freon 113	101					Compound Not Detected.		
19 Methylene chloride	49		4.100	4.094	(0.674)	6382	0.23545	0.339
20 Allyl Chloride	76					Compound Not Detected.		
21 Carbon Disulfide	76		4.221	4.224	(0.693)	22235	0.28190	0.406
22 trans-1,2-dichloroethene	96					Compound Not Detected.		
23 Methyl Tert Butyl Ether	73					Compound Not Detected.		
24 Vinyl Acetate	43					Compound Not Detected.		

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppbv)	FINAL (ppbv)
25 1,1-Dichloroethane	63		Compound Not Detected.						
\$ 26 Hexane-d14(S)	66		4.700	4.700	(0.772)	306293	8.78951	8.79	
27 Methyl Ethyl Ketone	72		4.778	4.779	(0.785)	26485	2.39118	3.44 (Q)	
28 n-Hexane	57		4.818	4.818	(0.792)	27071	0.85455	1.23 (M)	
29 cis-1,2-Dichloroethene	96		Compound Not Detected.						
30 Ethyl Acetate	43		4.998	4.999	(0.821)	34350	1.21422	1.75 (Q)	
31 Chloroform	83		Compound Not Detected.						
32 Tetrahydrofuran	42		Compound Not Detected.						
33 1,1,1-Trichloroethane	97		Compound Not Detected.						
34 1,2-Dichloroethane	62		Compound Not Detected.						
35 Benzene	78		5.884	5.887	(0.967)	41253	1.00444	1.45	
36 Carbon tetrachloride	117		Compound Not Detected.						
37 Cyclohexane	56		5.916	5.910	(0.972)	4345	0.63120	0.909 (QM)	
* 38 1,4-Difluorobenzene	114		6.087	6.094	(1.000)	721641	10.0000		
39 2,2,4-Trimethylpentane	57		Compound Not Detected.						
40 Heptane	43		6.431	6.442	(1.057)	7377	0.72992	1.05 (M)	
41 1,2-Dichloropropane	63		Compound Not Detected.						
42 Trichloroethene	130		Compound Not Detected.						
43 1,4-Dioxane	88		Compound Not Detected.						
44 Bromodichloromethane	83		Compound Not Detected.						
45 Methyl Isobutyl Ketone	43		Compound Not Detected.						
46 cis-1,3-Dichloropropene	75		Compound Not Detected.						
47 trans-1,3-Dichloropropene	75		Compound Not Detected.						
\$ 48 Toluene-d8 (S)	98		7.841	7.848	(1.288)	513411	10.1869	10.2	
49 Toluene	91		7.930	7.940	(1.303)	120570	1.78768	2.57	
50 1,1,2-Trichloroethane	97		Compound Not Detected.						
51 Methyl Butyl Ketone	43		8.248	8.244	(0.852)	5598	0.48753	0.702 (M)	
52 Dibromochloromethane	129		Compound Not Detected.						
53 1,2-Dibromoethane	107		Compound Not Detected.						
54 Tetrachloroethene	166		8.910	8.918	(0.920)	7081	0.54185	0.780	
* 55 Chlorobenzene - d5	117		9.684	9.691	(1.000)	272899	10.0000		
56 Chlorobenzene	112		Compound Not Detected.						
57 Ethyl Benzene	91		10.032	10.039	(1.036)	44953	0.73240	1.05	
58 m&p-Xylene	91		10.202	10.213	(1.053)	154999	2.10065	3.02	
59 Bromoform	173		Compound Not Detected.						
60 Styrene	104		10.694	10.708	(1.104)	5660	0.57063	0.822	
61 o-Xylene	91		10.776	10.783	(1.113)	49067	0.75363	1.08	
62 1,1,2,2-Tetrachloroethane	83		Compound Not Detected.						
63 Isopropylbenzene	105		Compound Not Detected.						
64 N-Propylbenzene	91		12.111	12.121	(1.251)	18268	0.43807	0.631 (M)	
65 4-Ethyltoluene	105		12.311	12.321	(1.271)	33516	0.65472	0.943 (M)	
66 1,3,5-Trimethylbenzene	105		12.416	12.426	(1.282)	27477	0.60201	0.867	
67 1,2,4-Trimethylbenzene	105		13.009	13.020	(1.343)	129970	1.85504	2.67	
68 1,3-Dichlorobenzene	146		Compound Not Detected.						
69 Sec- Butylbenzene	105		Compound Not Detected.						
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.449	13.459	(1.389)	103278	9.37574	9.38	
71 Benzyl Chloride	91		Compound Not Detected.						
72 1,4-Dichlorobenzene	146		Compound Not Detected.						
73 1,2-Dichlorobenzene	146		Compound Not Detected.						
74 N-Butylbenzene	91		Compound Not Detected.						
75 1,2,4-Trichlorobenzene	180		Compound Not Detected.						
76 Naphthalene	128		16.859	16.860	(1.741)	39914	1.30243	1.88	
77 Hexachlorobutadiene	225		Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20623.d
Report Date: 26-Jul-2013 08:13

QC Flag Legend

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

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20623.d
Report Date: 26-Jul-2013 08:13

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 20623.d
Lab Smp Id: 10236207007
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
Misc Info: 17870

Calibration Date: 25-JUL-2013
Calibration Time: 13:08

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	721641	24.47
55 Chlorobenzene - d	221404	132842	309966	272899	23.26

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	-0.06
55 Chlorobenzene - d	9.69	9.36	10.02	9.68	-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\072513.b\20623.D

Date : 25-JUL-2013 23:59

Client ID:

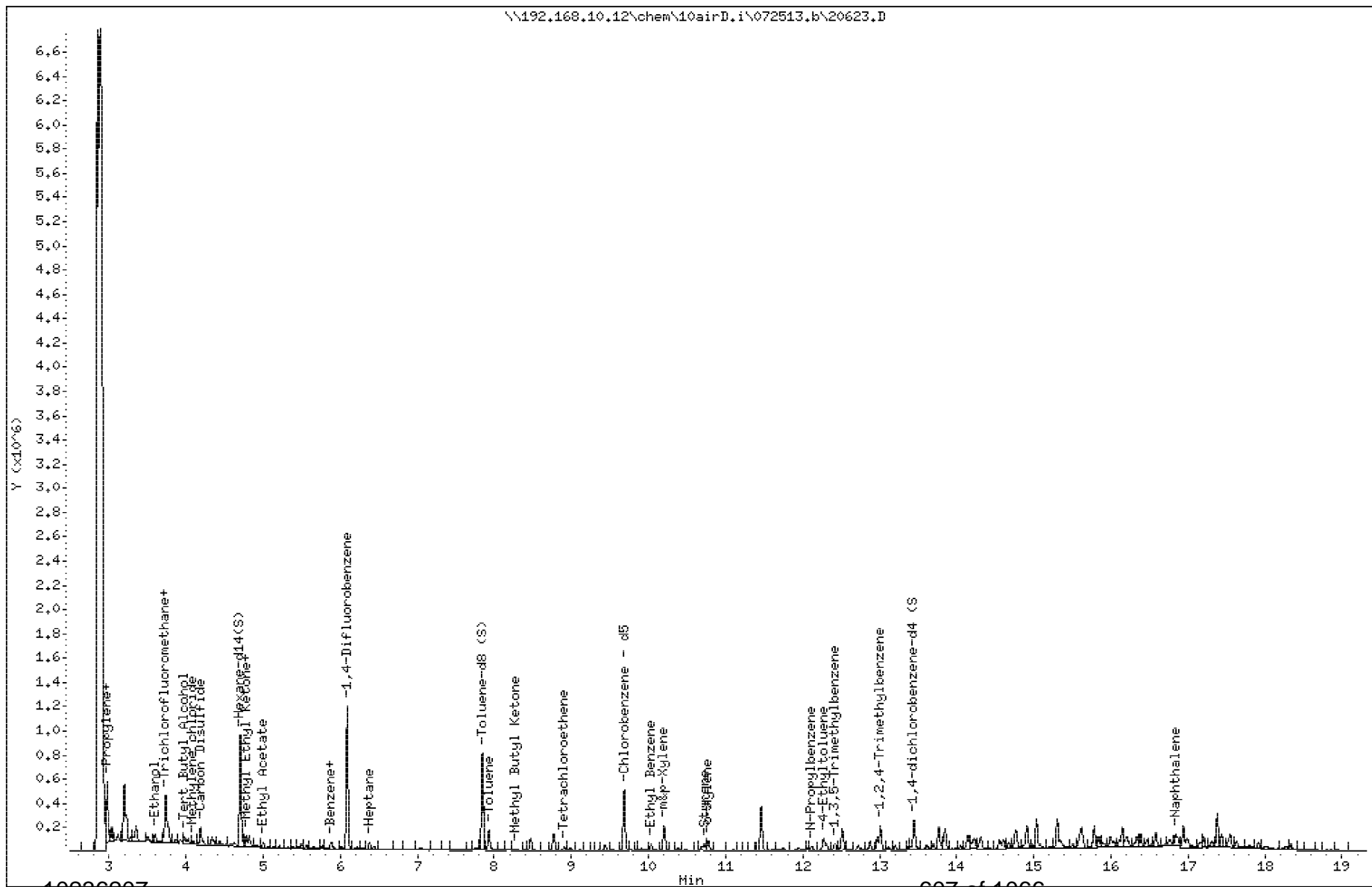
Instrument: 10airD.i

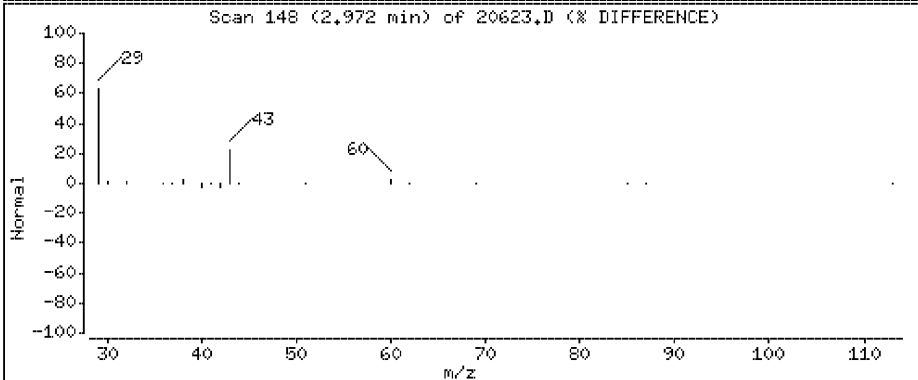
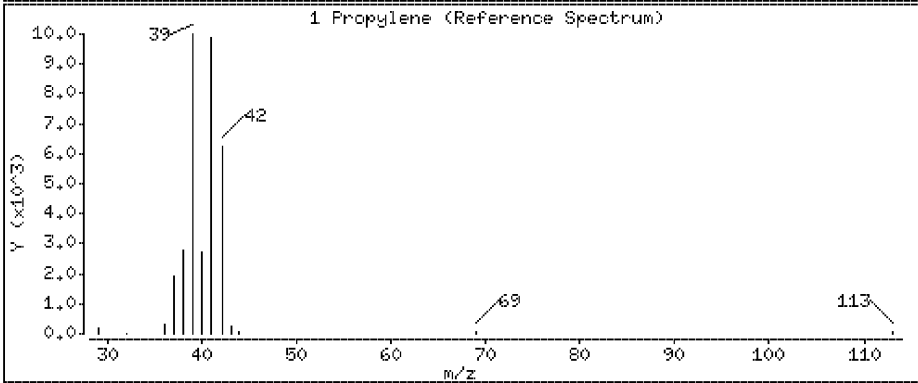
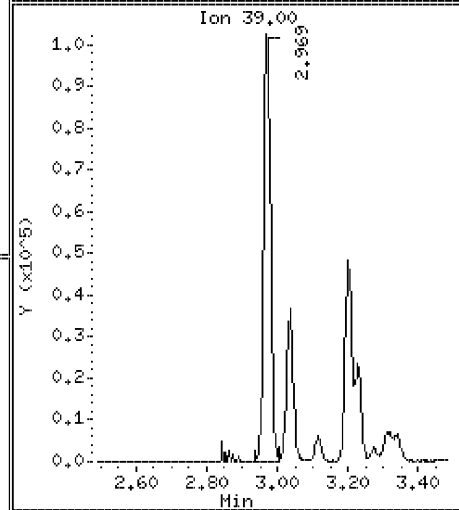
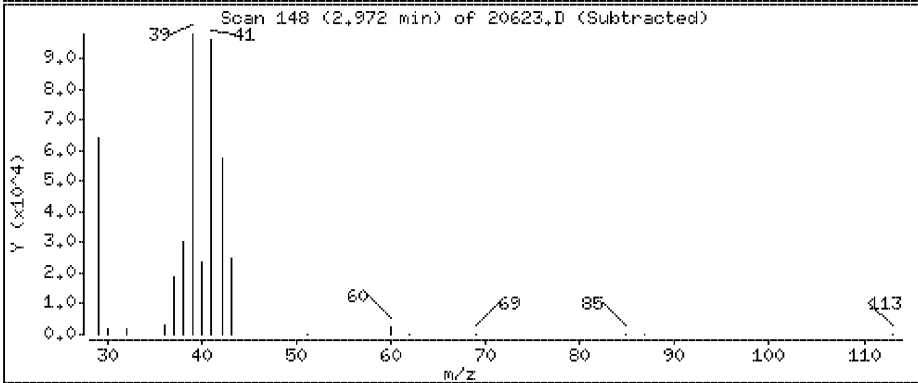
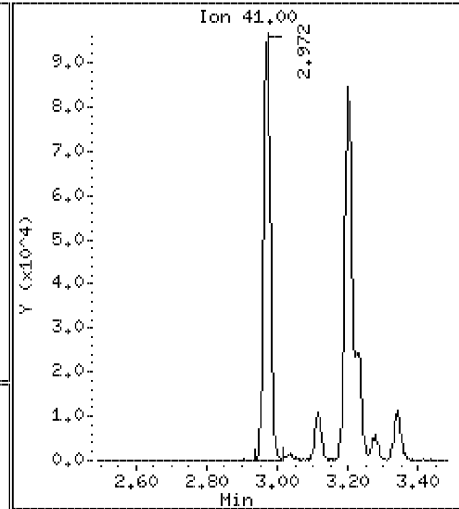
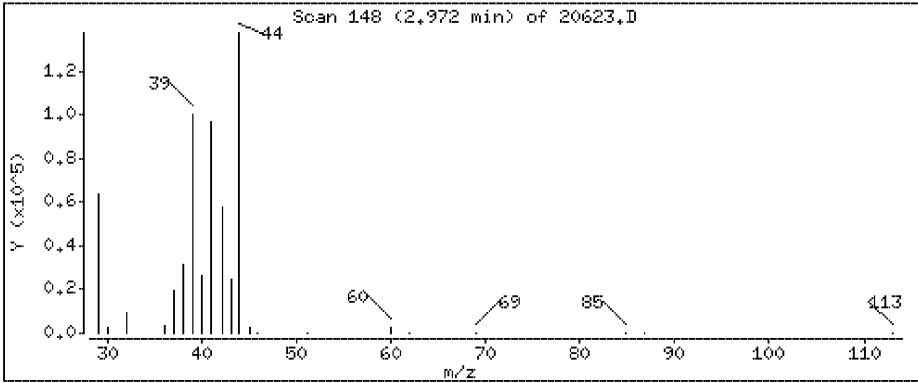
Sample Info:

Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32





Data File: \\192.168.10.12\chem\10airD.i\072513,b\20623.D

Date : 25-JUL-2013 23:59

Client ID:

Instrument: 10airD.i

Sample Info:

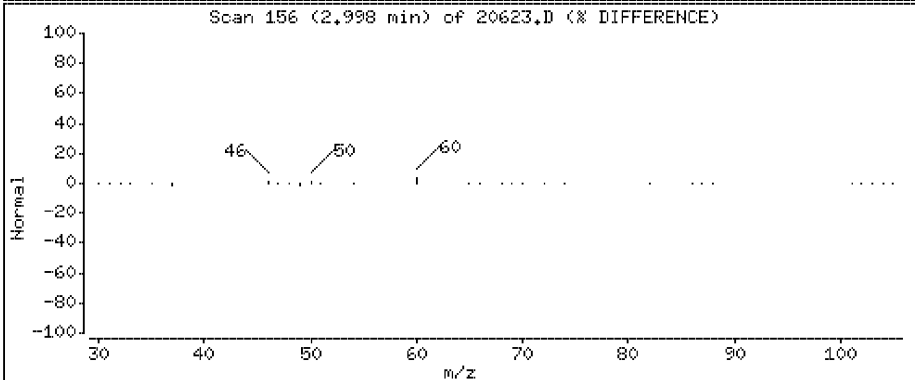
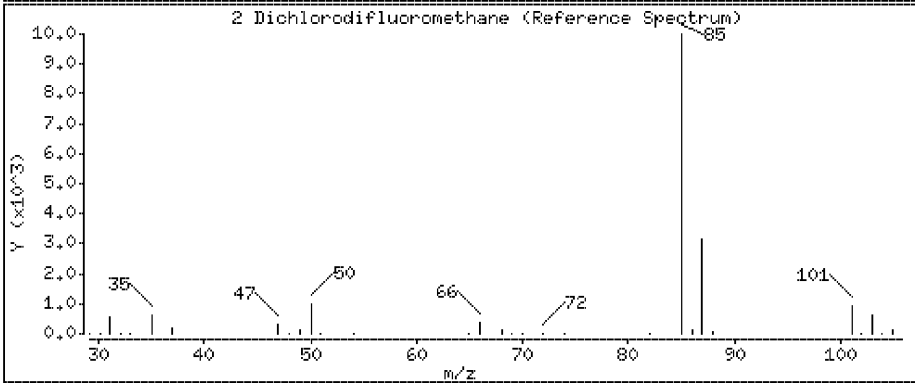
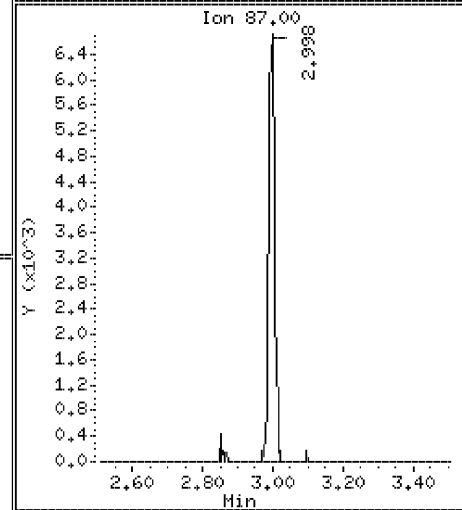
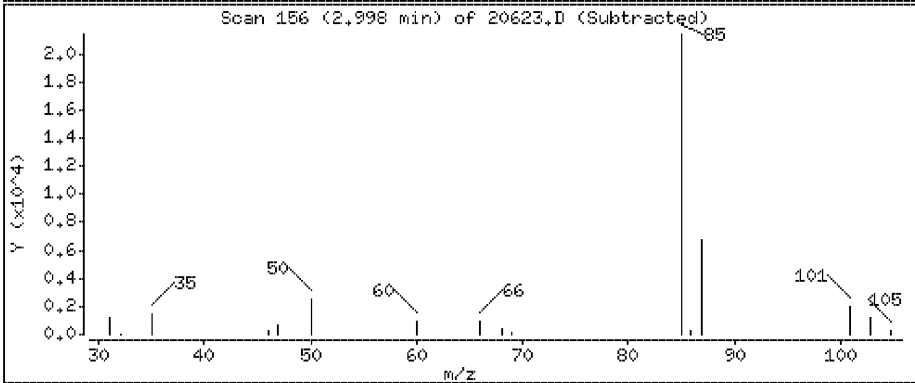
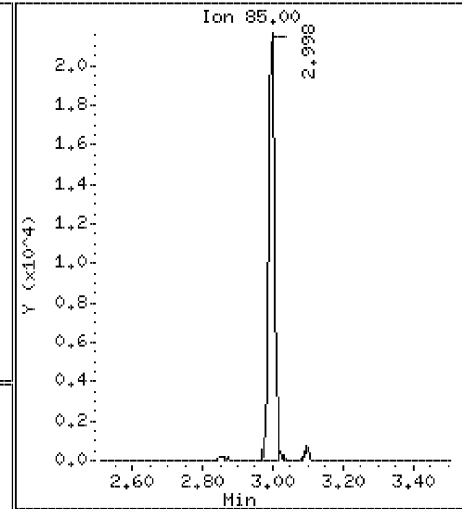
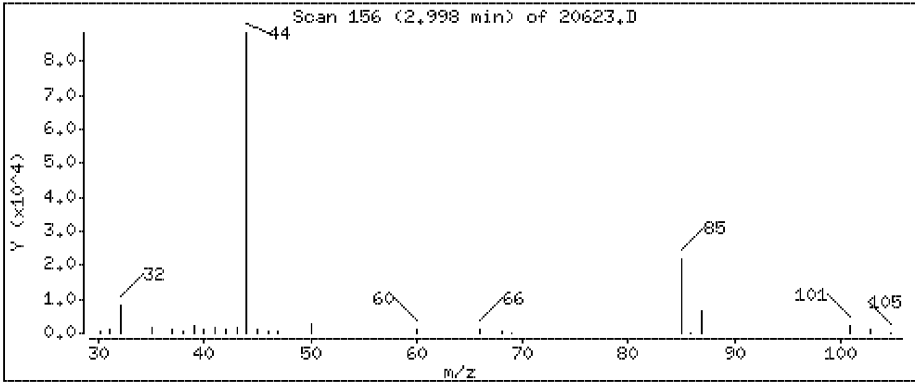
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

2 Dichlorodifluoromethane

Concentration: 0.438 ppbv



Data File: \\192.168.10.12\chem\10airD,i\072513,b\20623.D

Date : 25-JUL-2013 23:59

Client ID:

Instrument: 10airD.i

Sample Info:

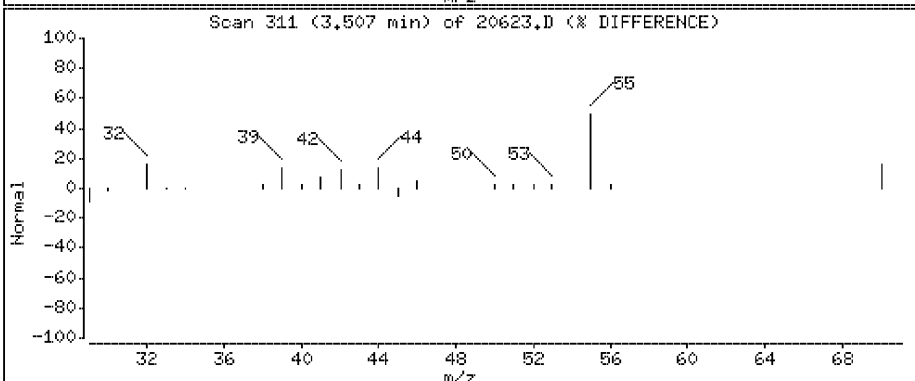
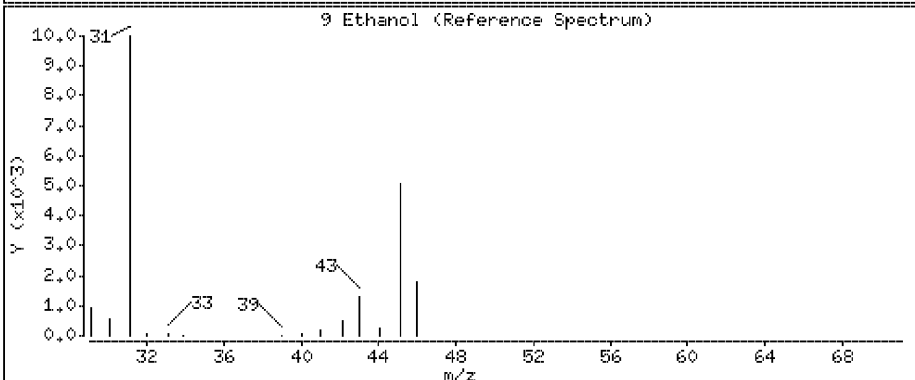
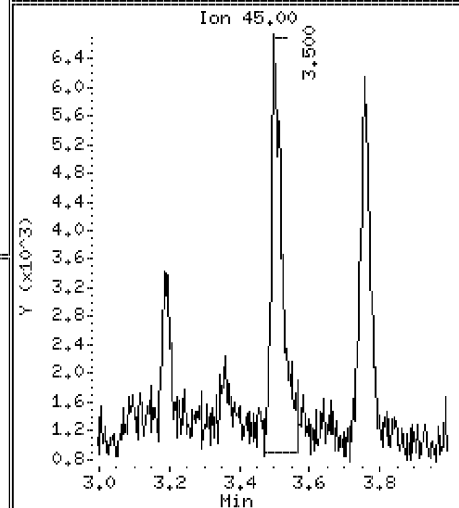
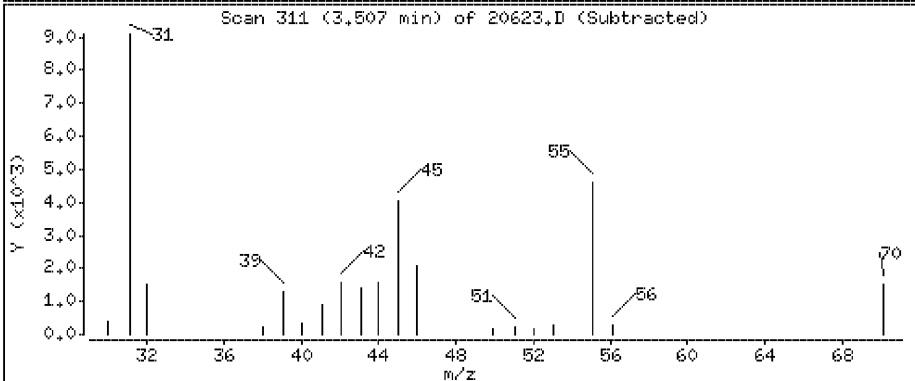
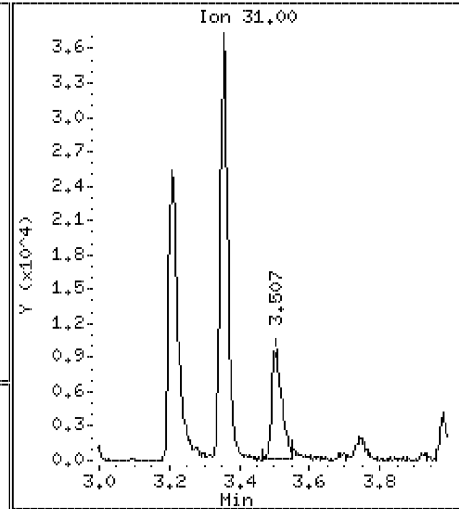
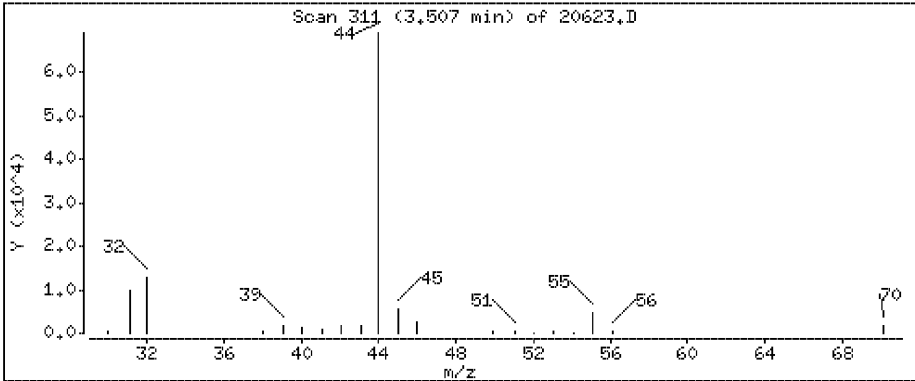
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

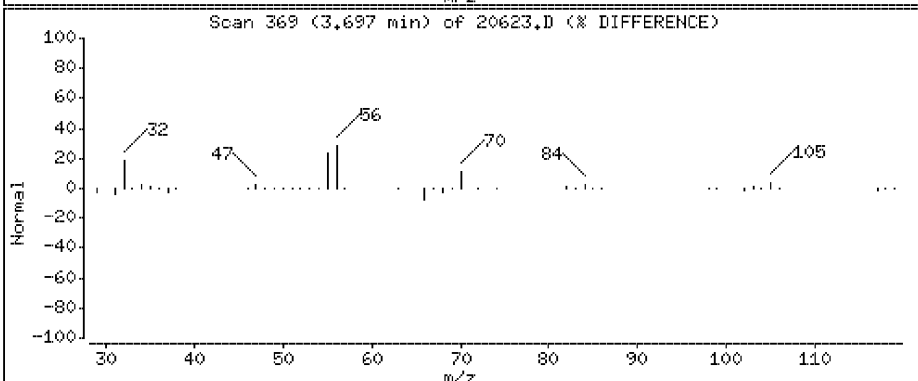
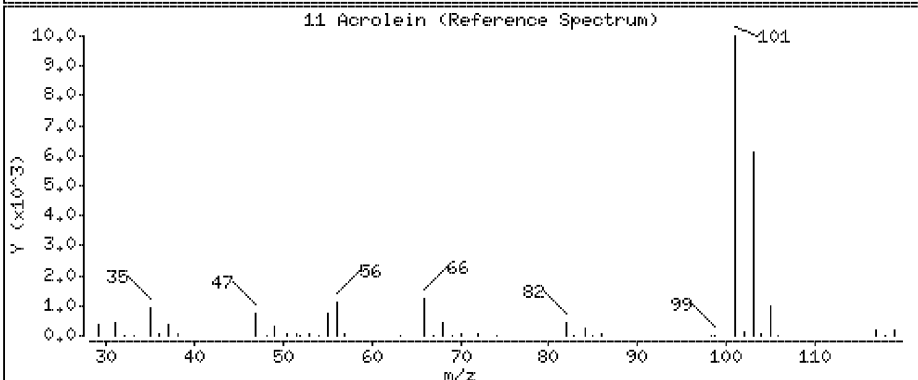
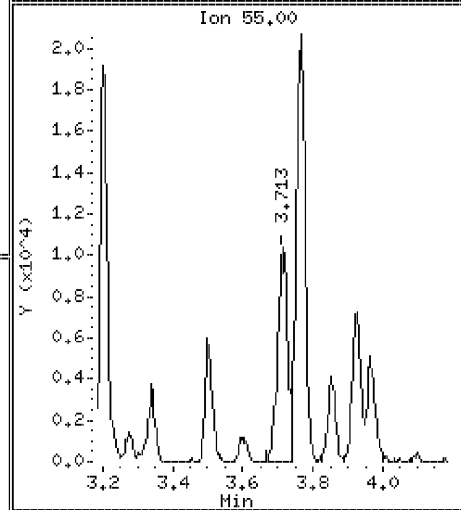
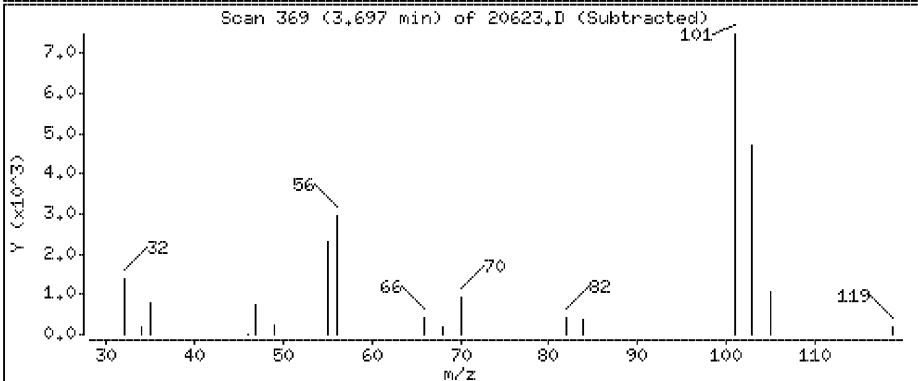
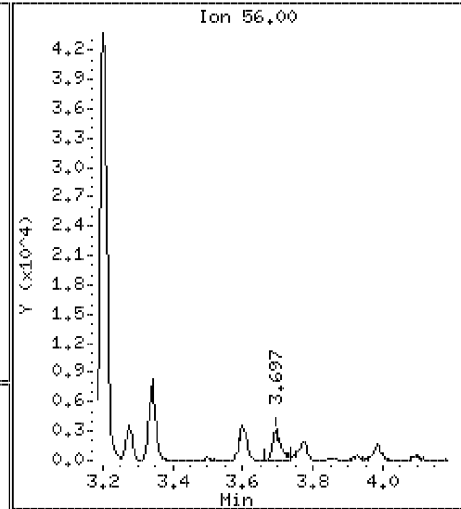
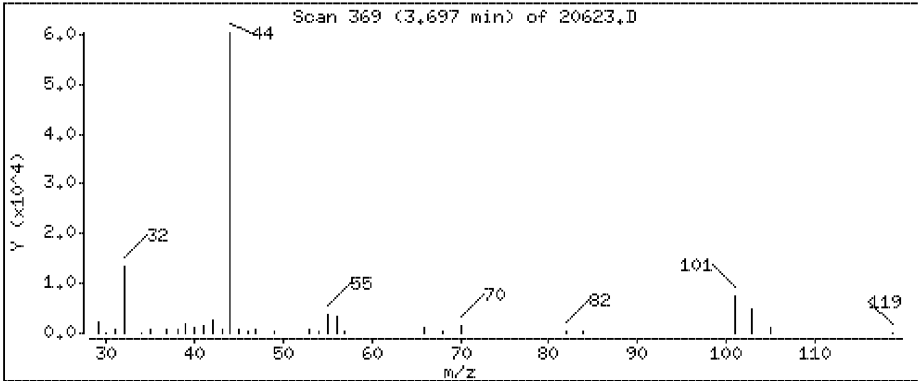
9 Ethanol

Concentration: 2.64 ppbv



11 Acrolein

Concentration: 1.28 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20623.D

Date : 25-JUL-2013 23:59

Client ID:

Instrument: 10airD.i

Sample Info:

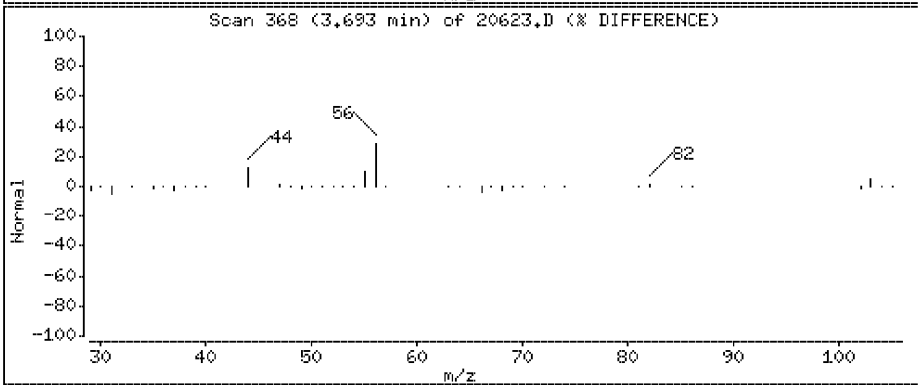
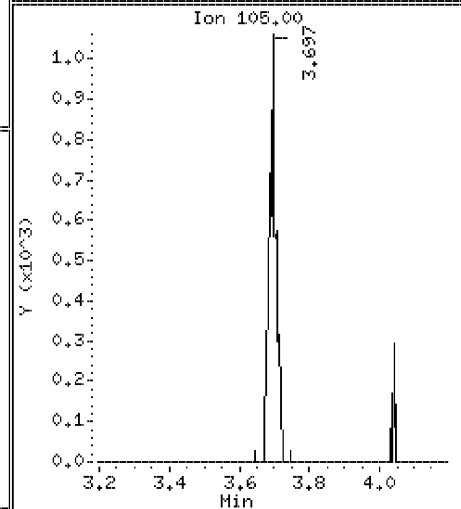
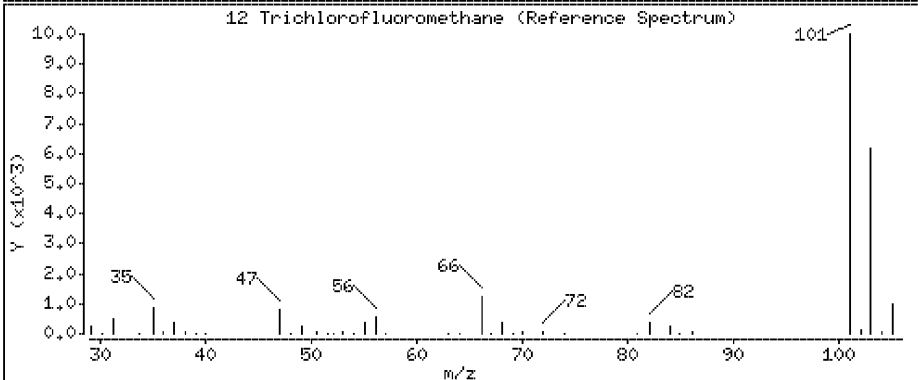
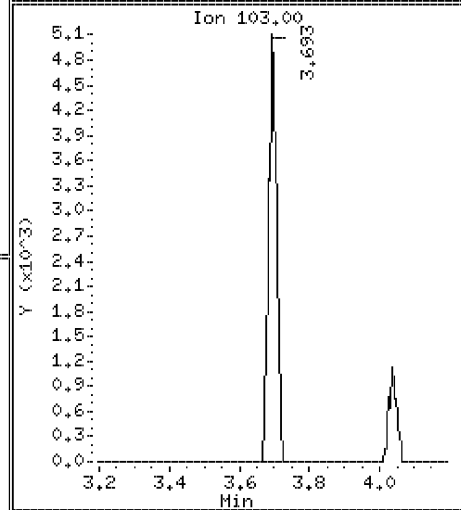
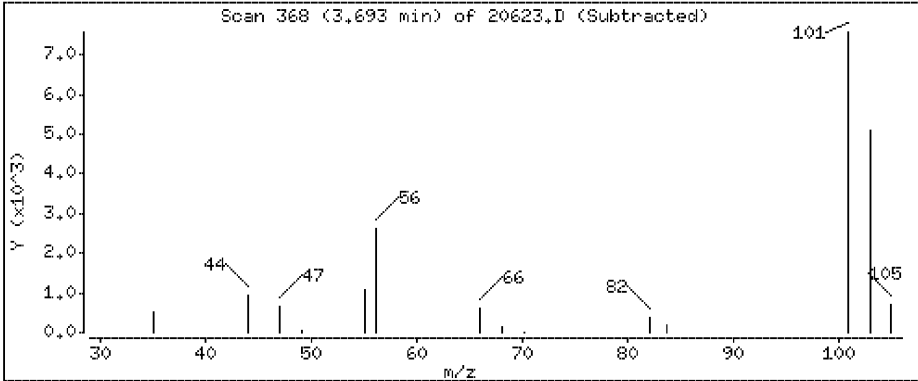
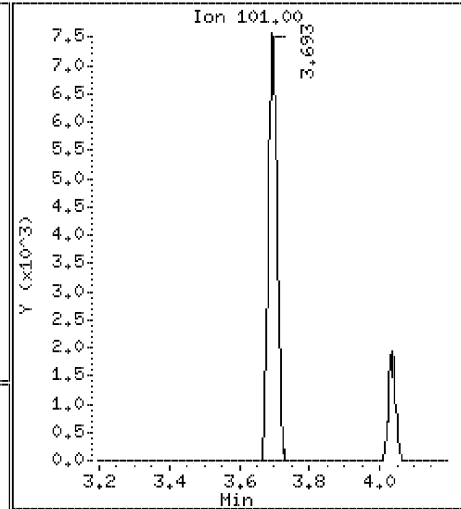
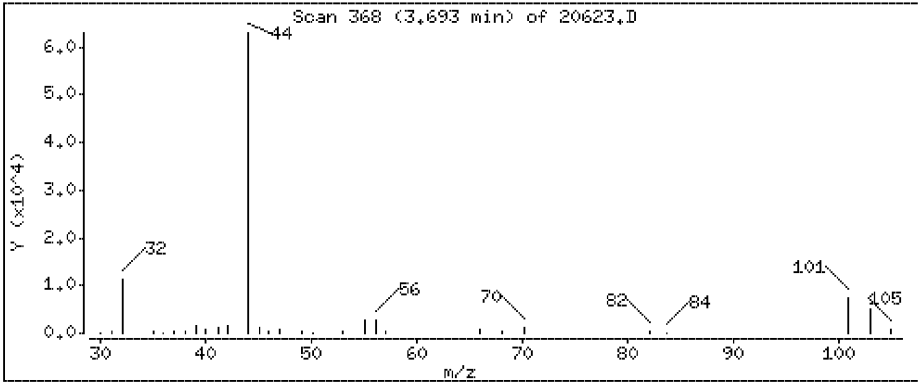
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

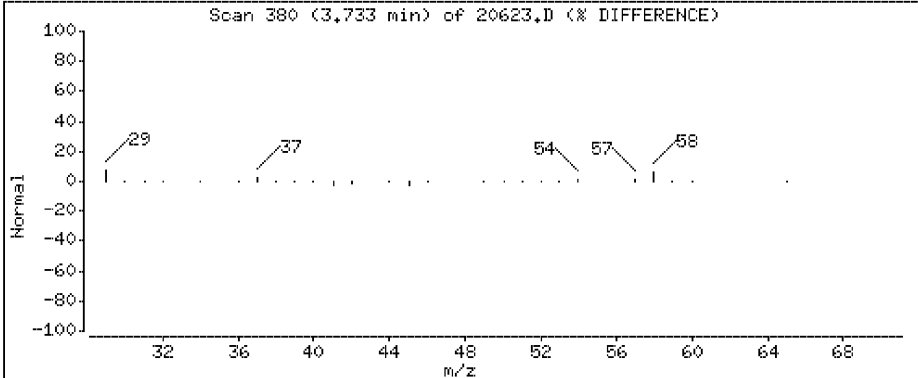
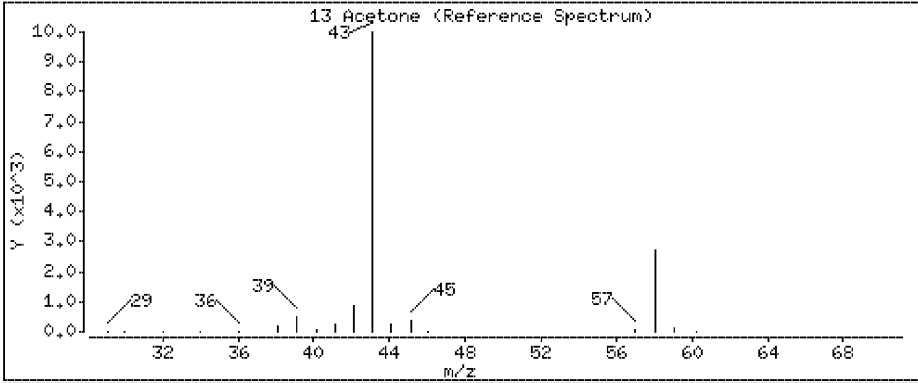
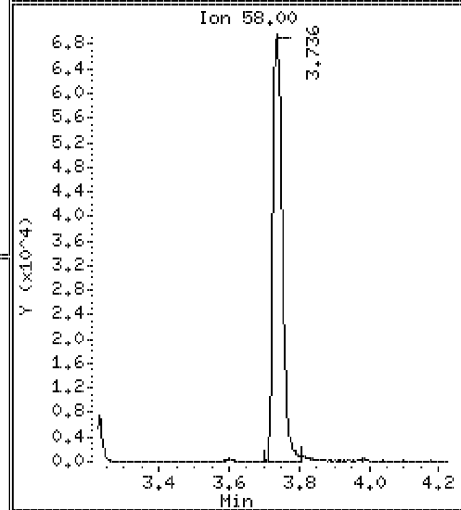
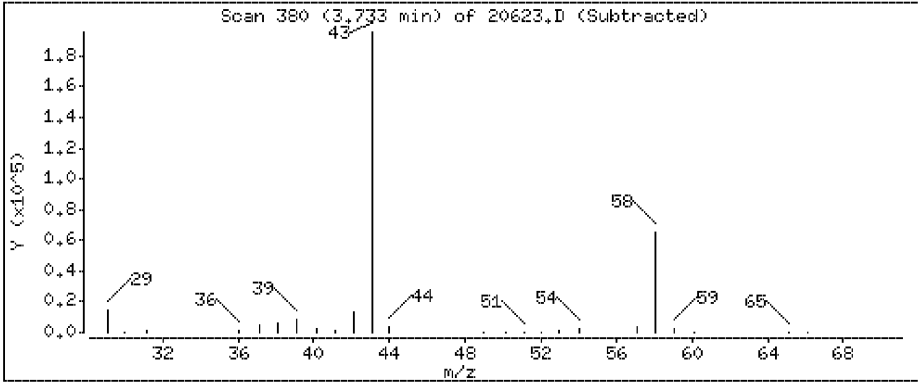
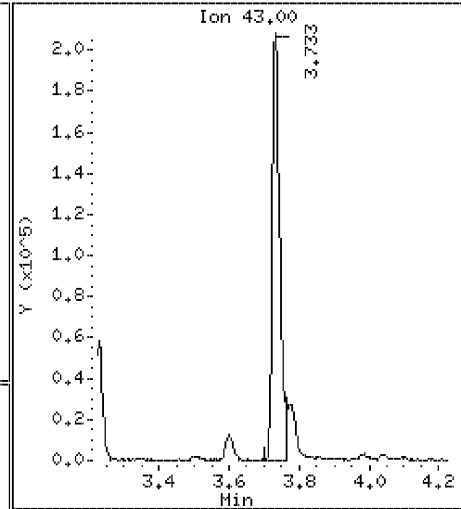
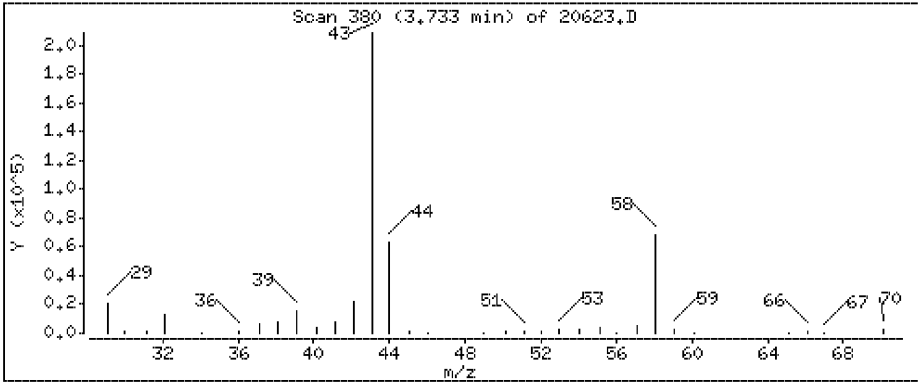
12 Trichlorofluoromethane

Concentration: 0,201 ppbv



13 Acetone

Concentration: 9.47 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20623.D

Date : 25-JUL-2013 23:59

Client ID:

Instrument: 10airD.i

Sample Info:

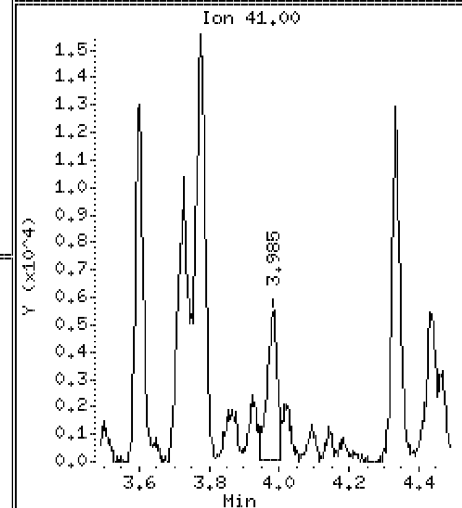
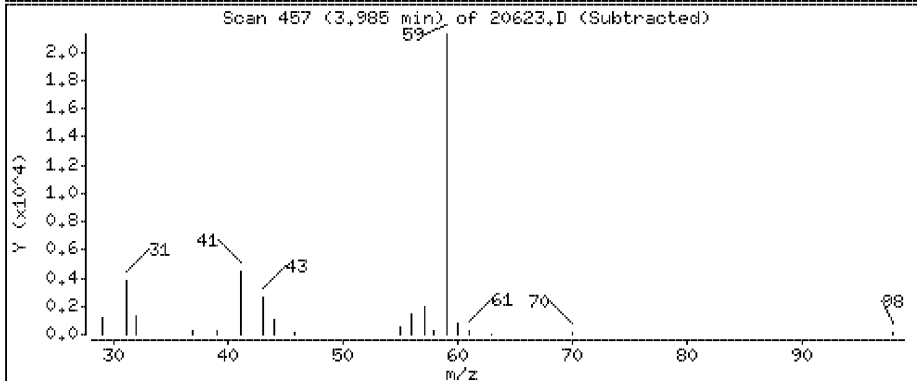
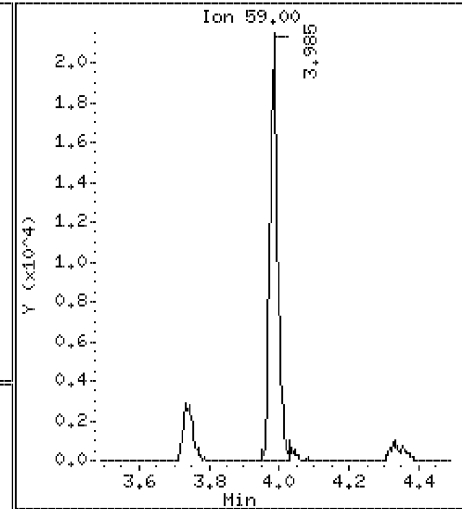
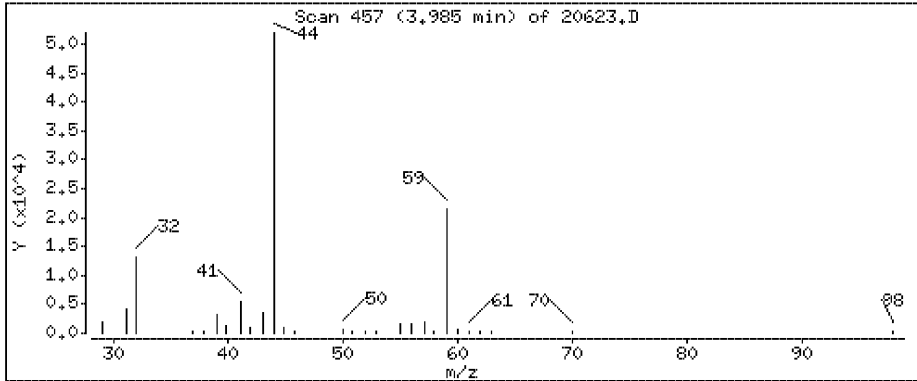
Operator: DR1

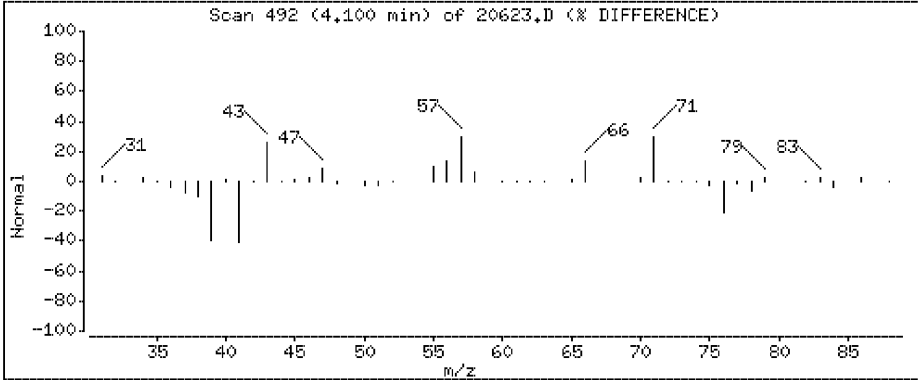
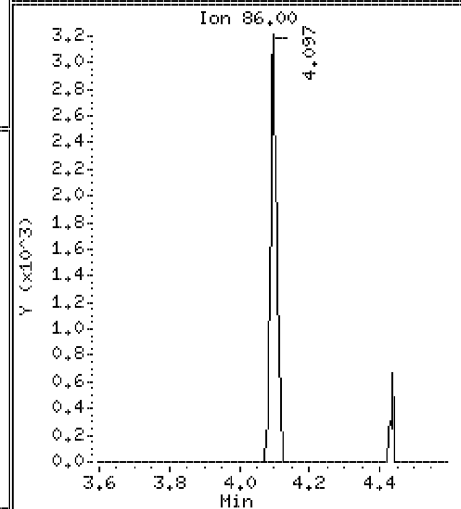
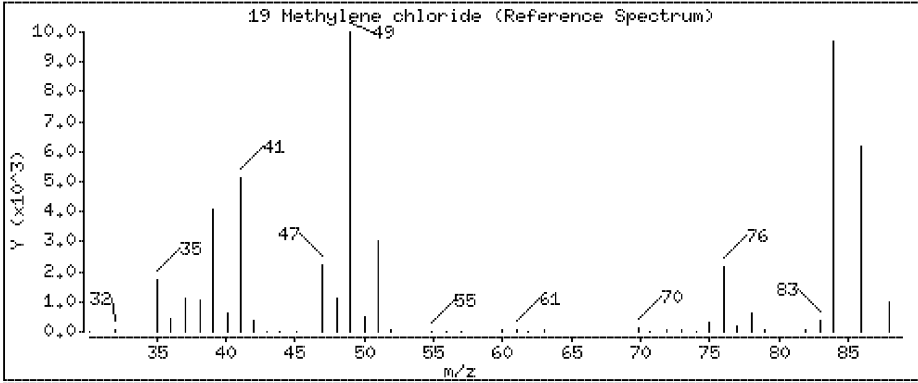
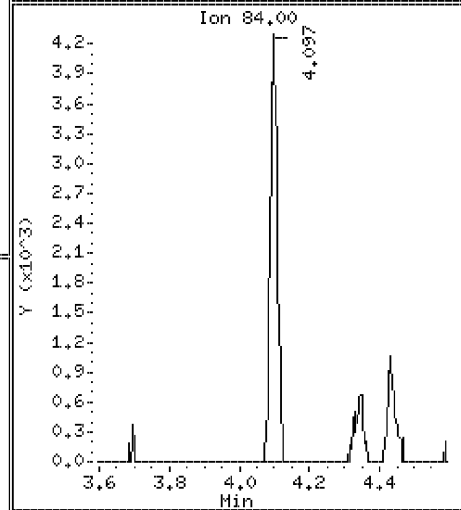
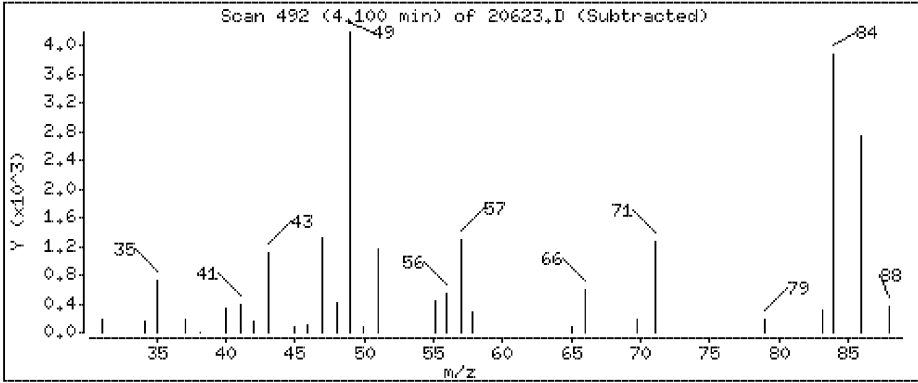
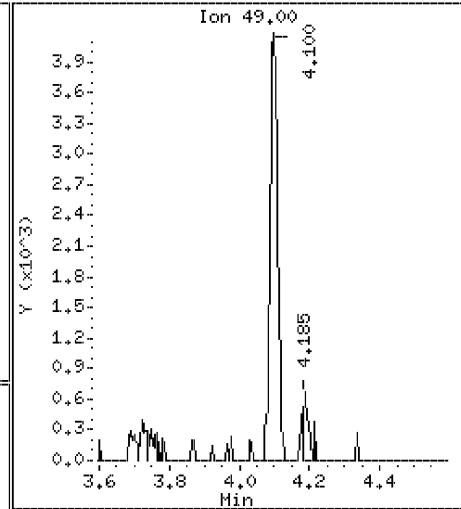
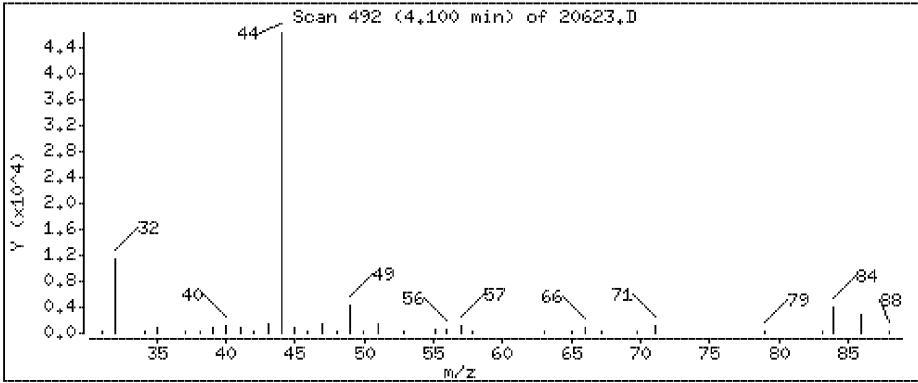
Column phase: J&W DB-5

Column diameter: 0,32

17 Tert Butyl Alcohol

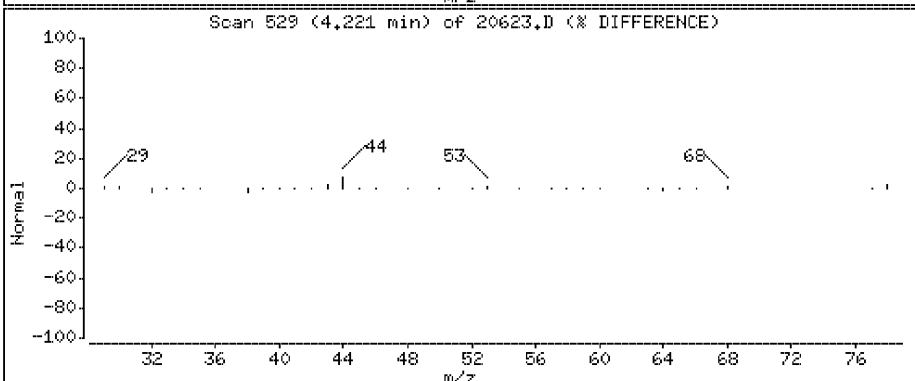
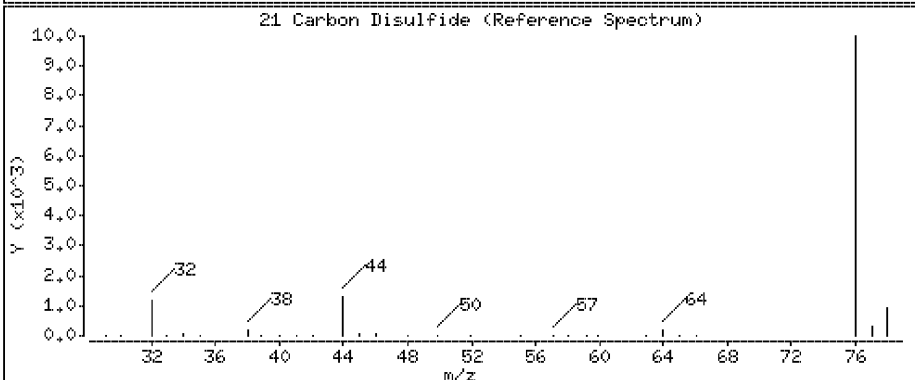
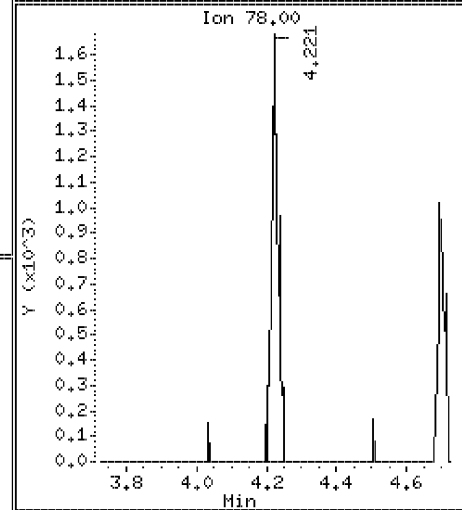
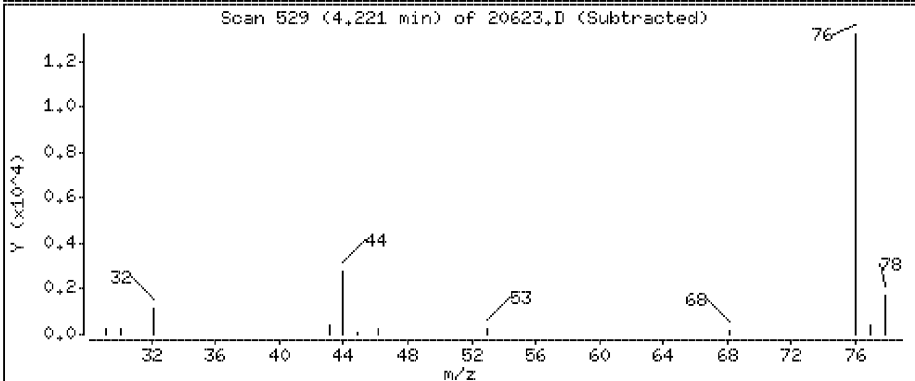
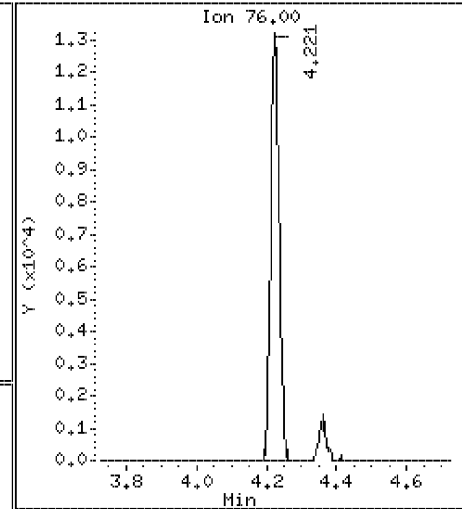
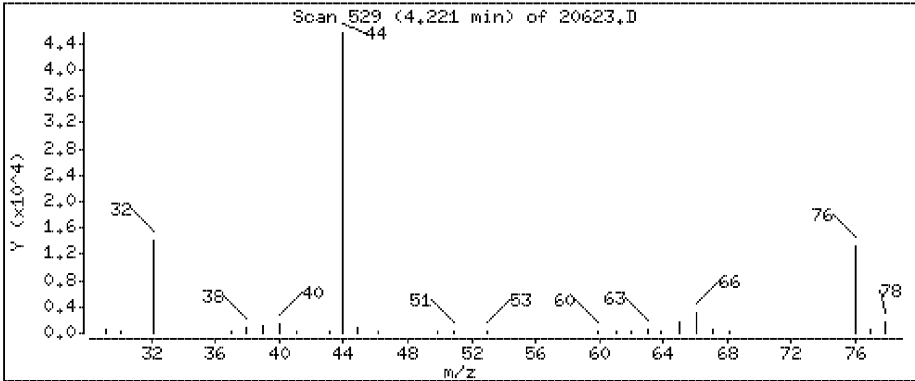
Concentration: 0,938 ppbv





21 Carbon Disulfide

Concentration: 0,406 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20623.D

Date : 25-JUL-2013 23:59

Client ID:

Instrument: 10airD.i

Sample Info:

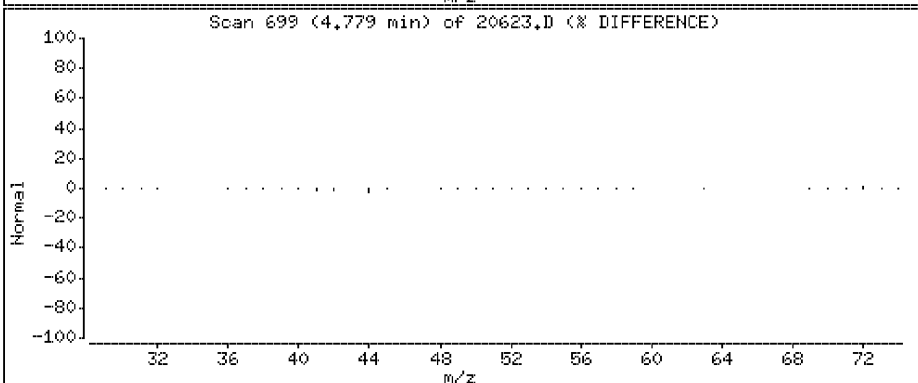
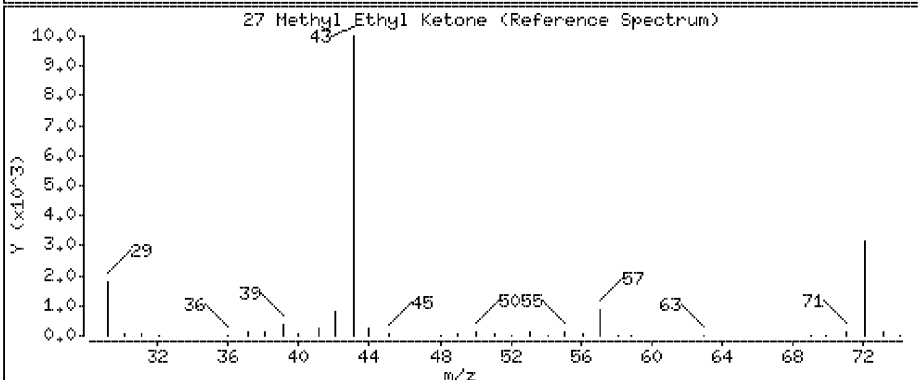
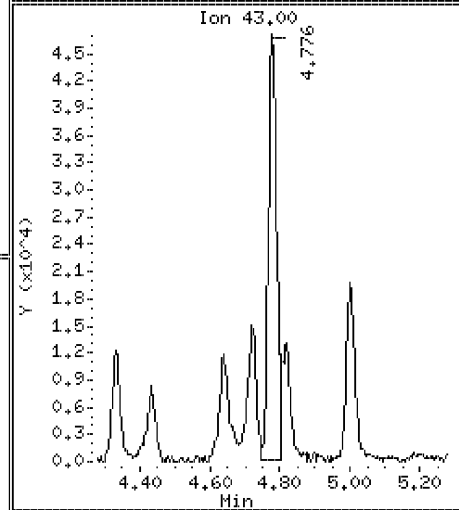
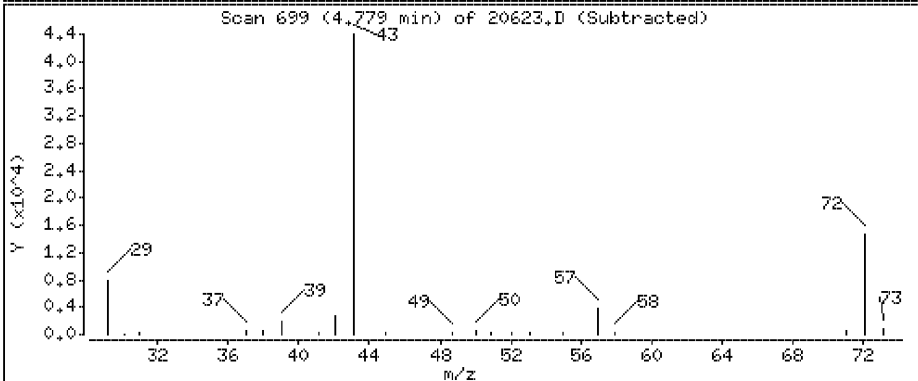
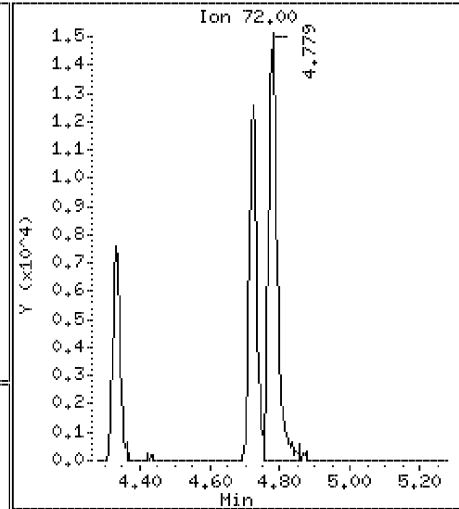
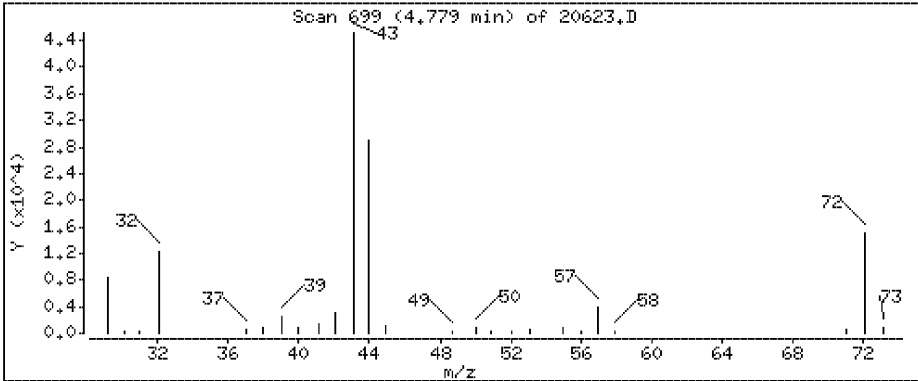
Operator: DR1

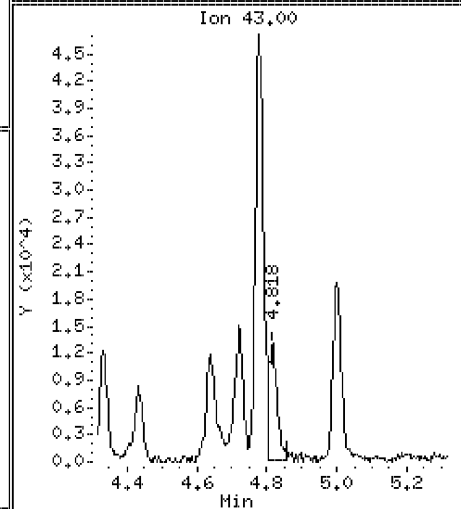
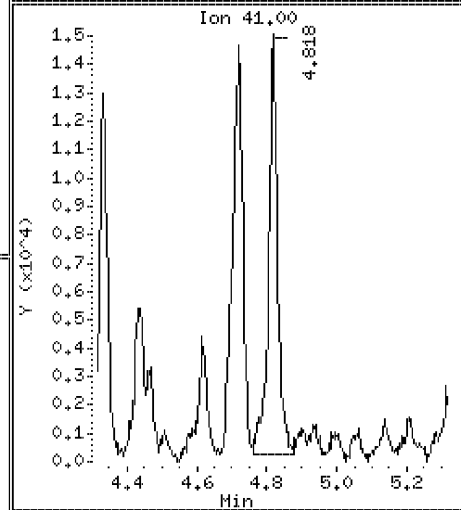
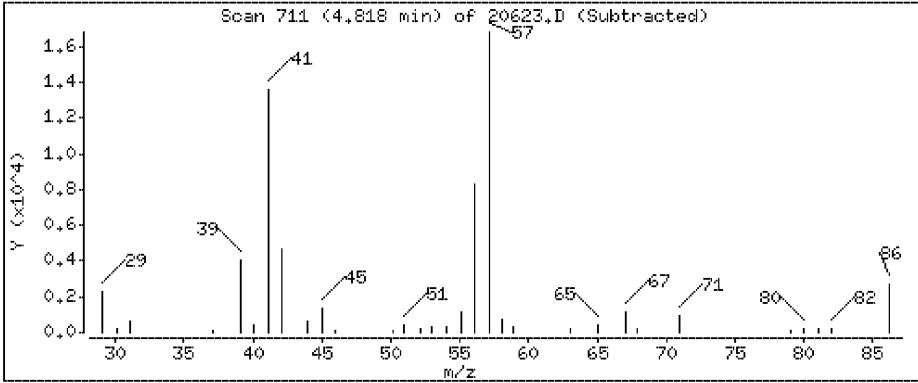
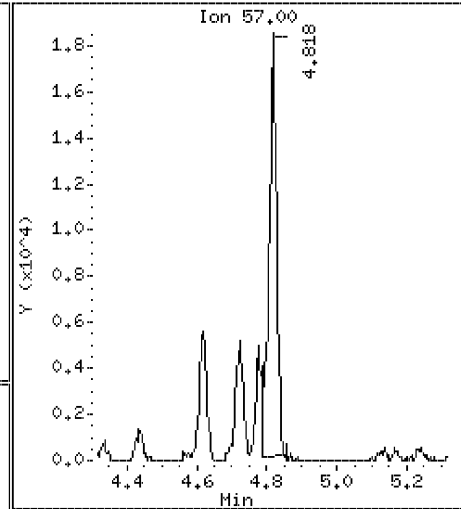
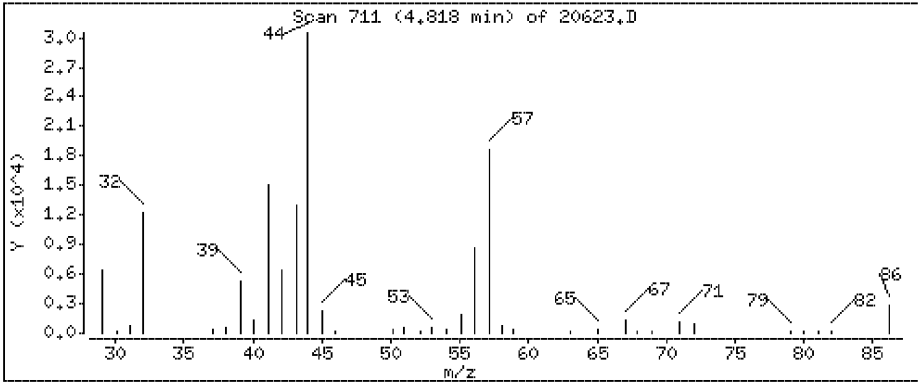
Column phase: J&W DB-5

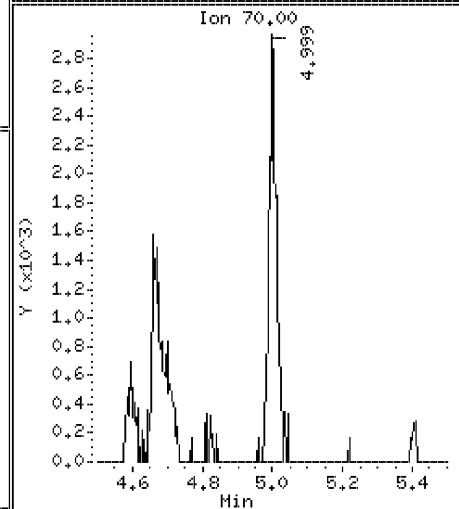
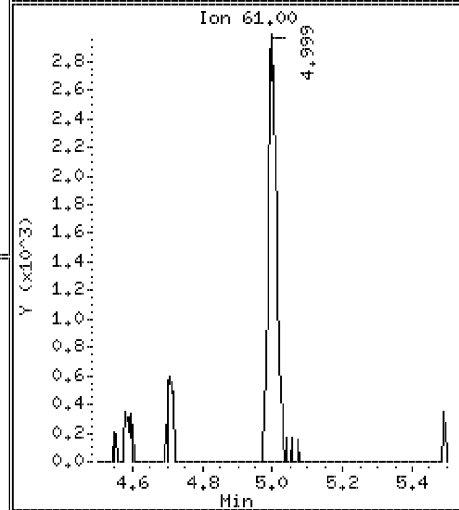
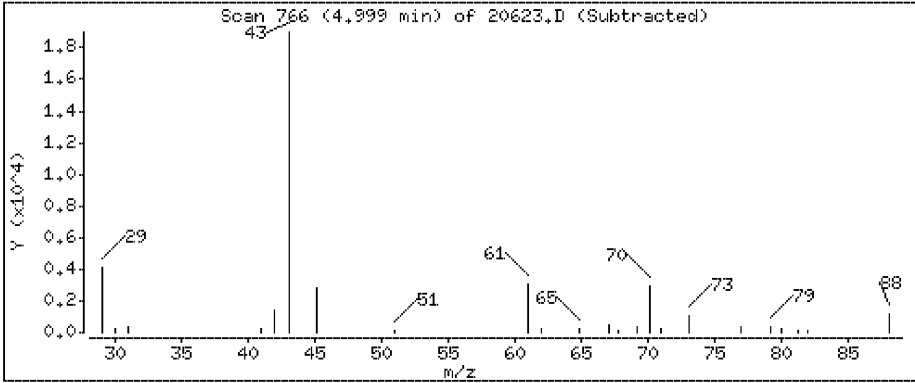
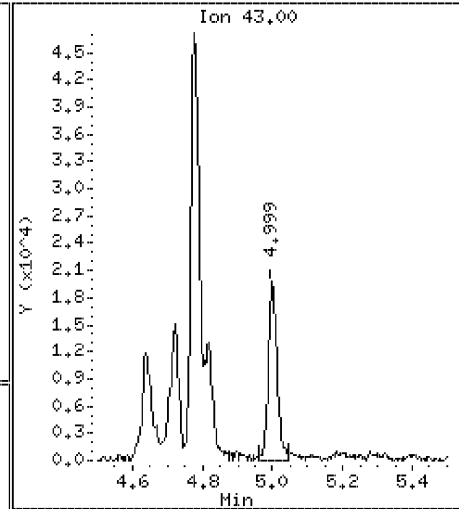
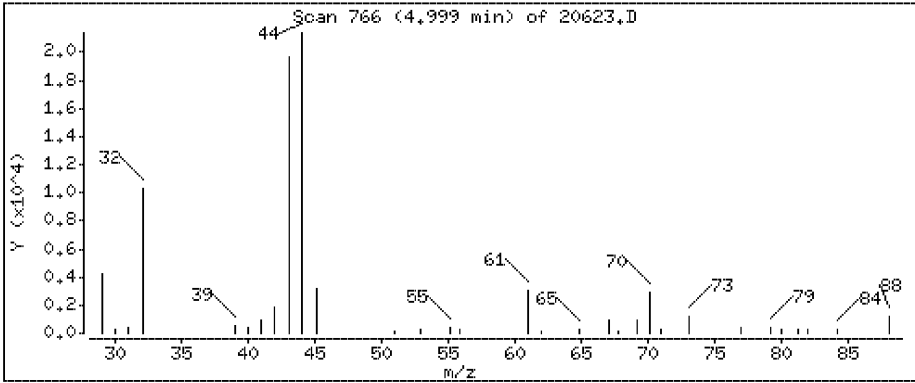
Column diameter: 0.32

27 Methyl Ethyl Ketone

Concentration: 3.44 ppbv

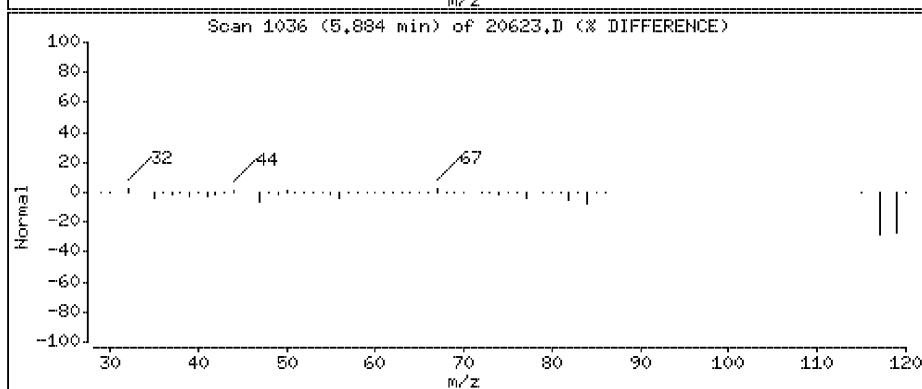
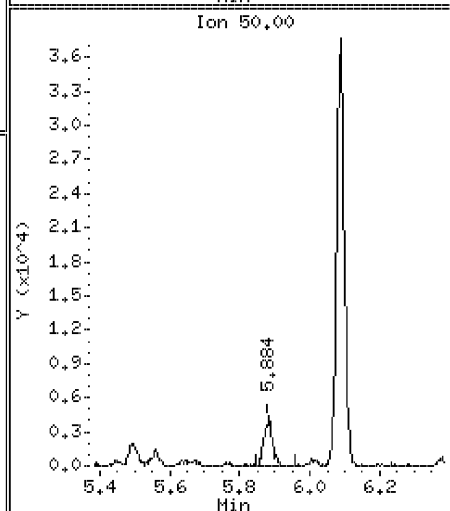
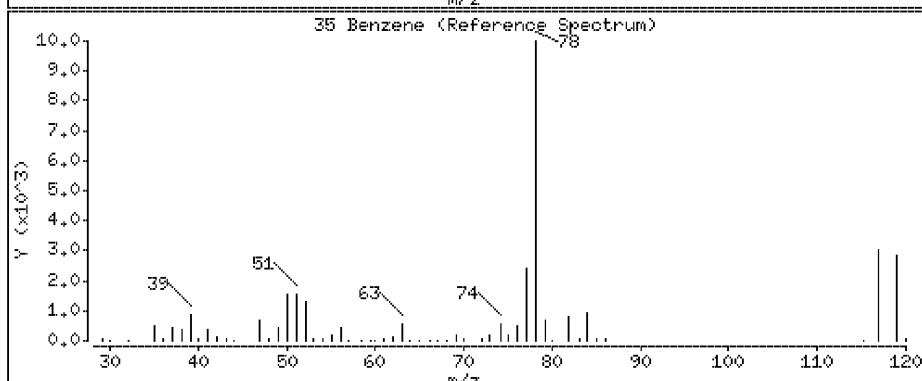
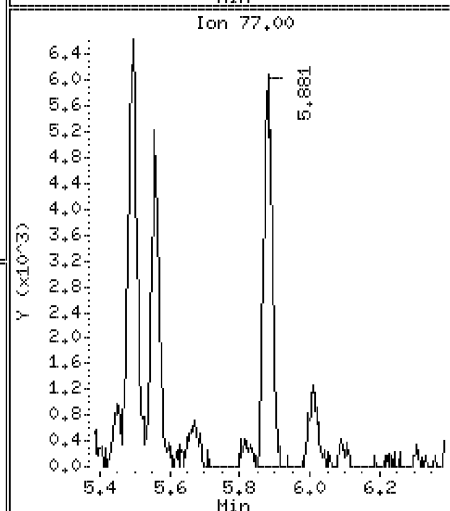
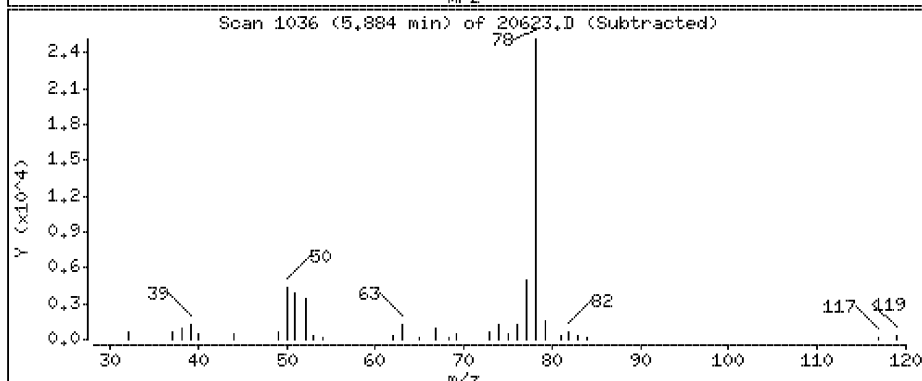
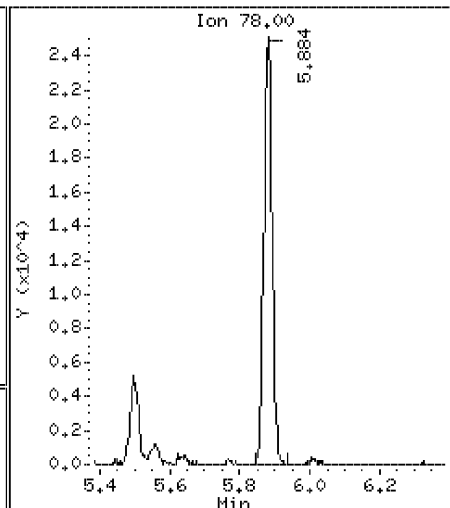
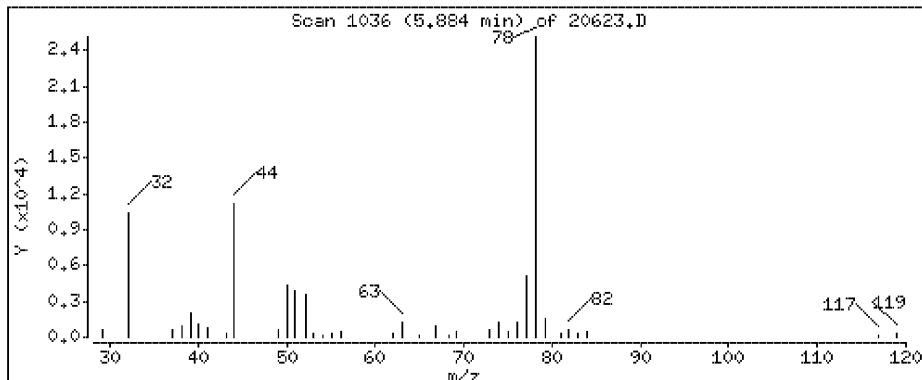


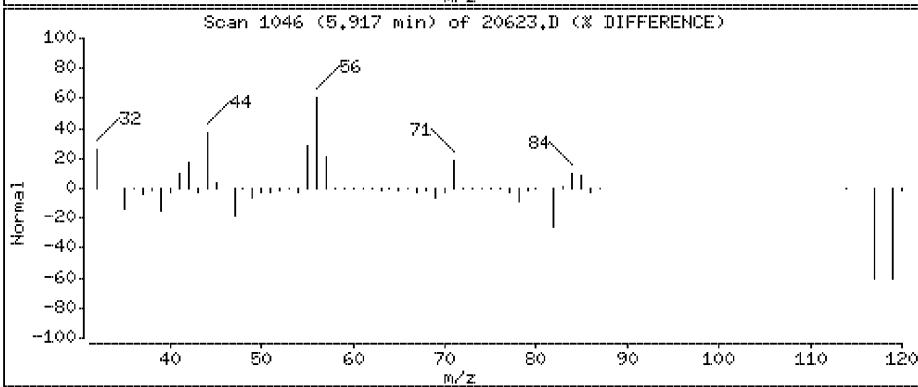
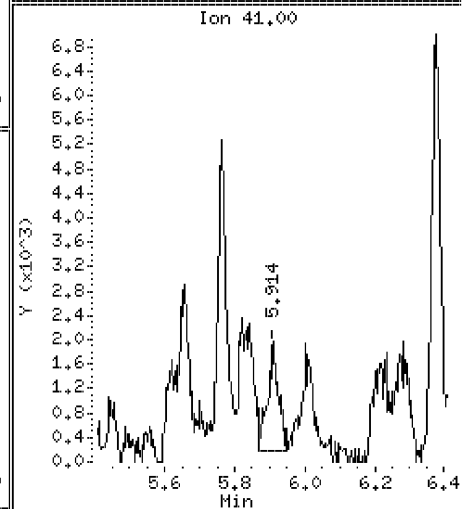
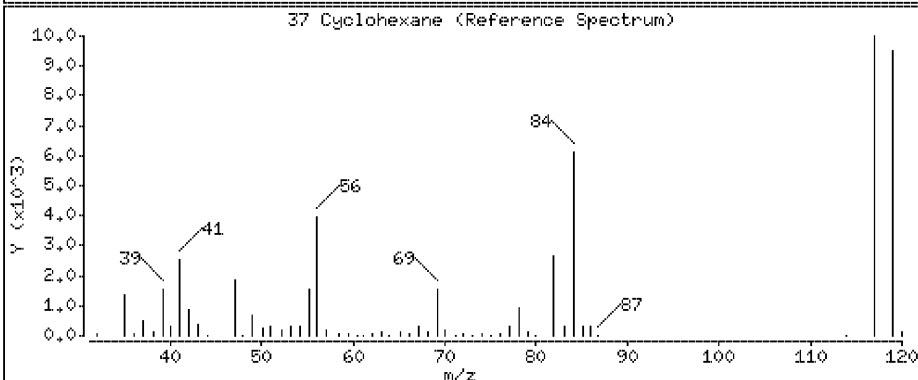
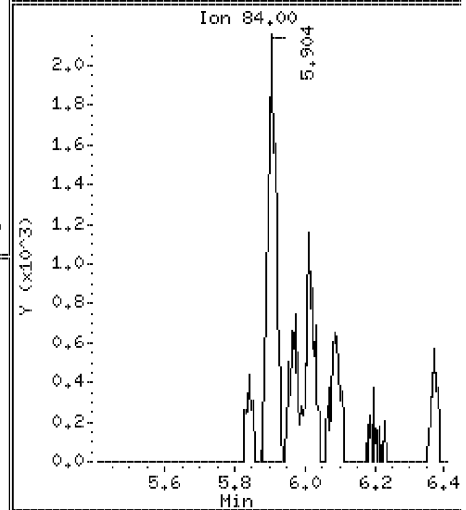
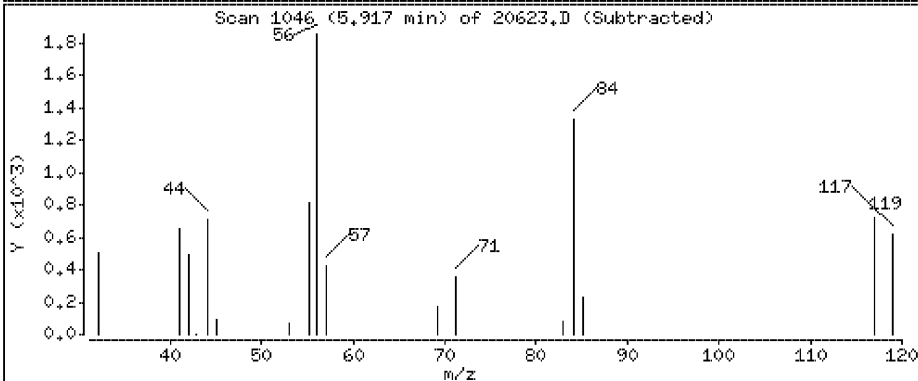
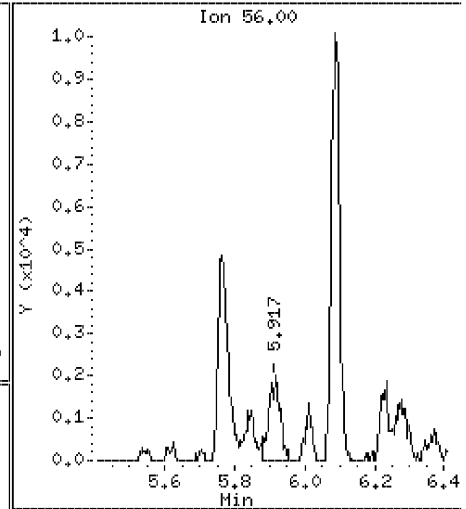
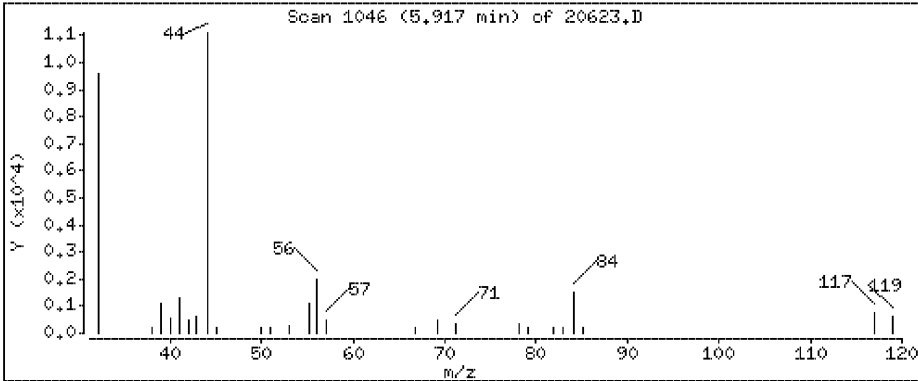




35 Benzene

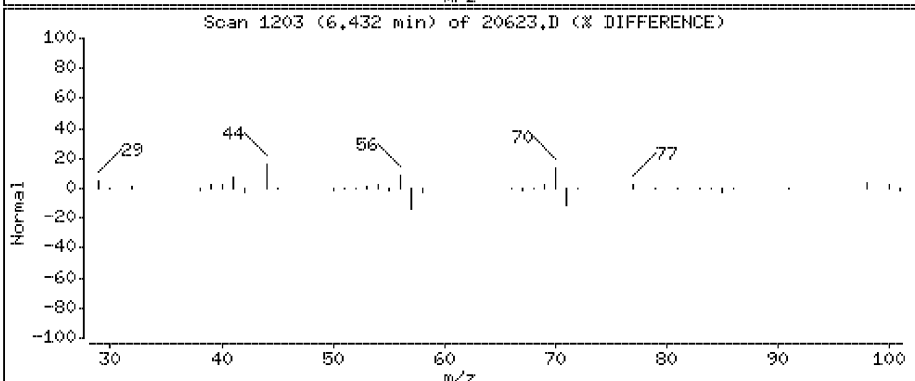
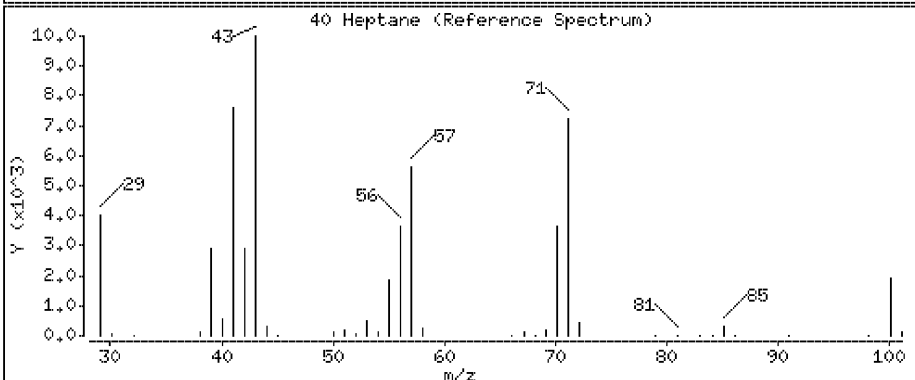
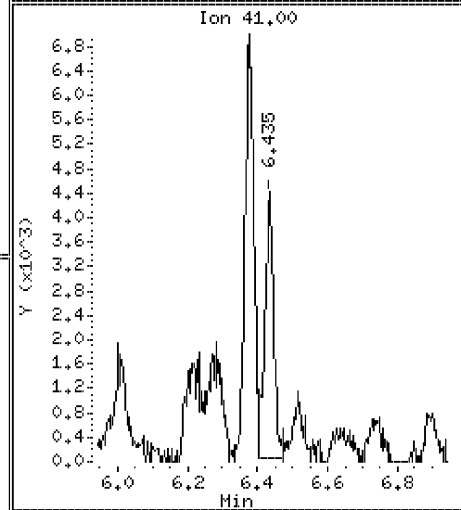
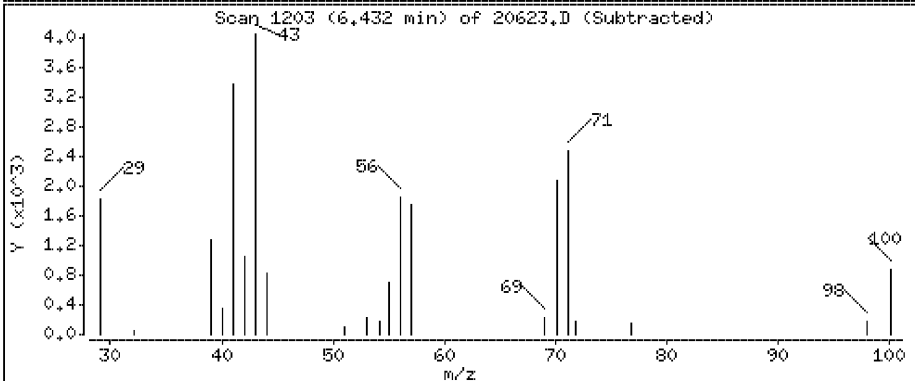
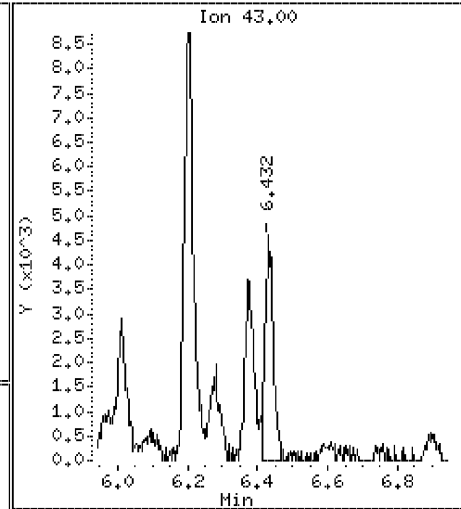
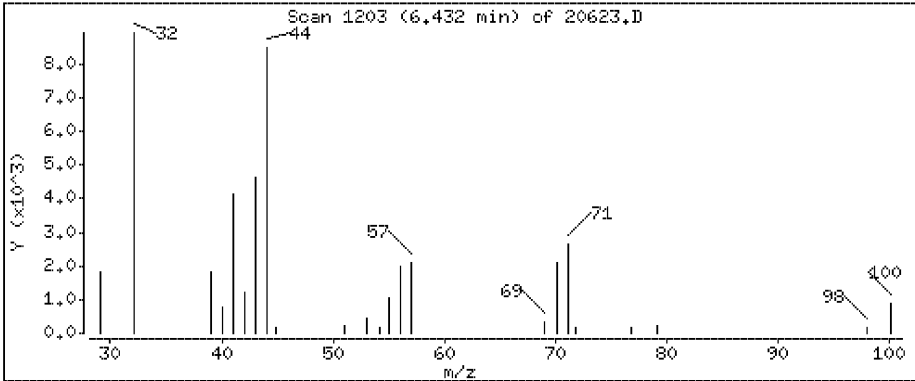
Concentration: 1.45 ppbv





40 Heptane

Concentration: 1.05 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20623.D

Date : 25-JUL-2013 23:59

Client ID:

Instrument: 10airD.i

Sample Info:

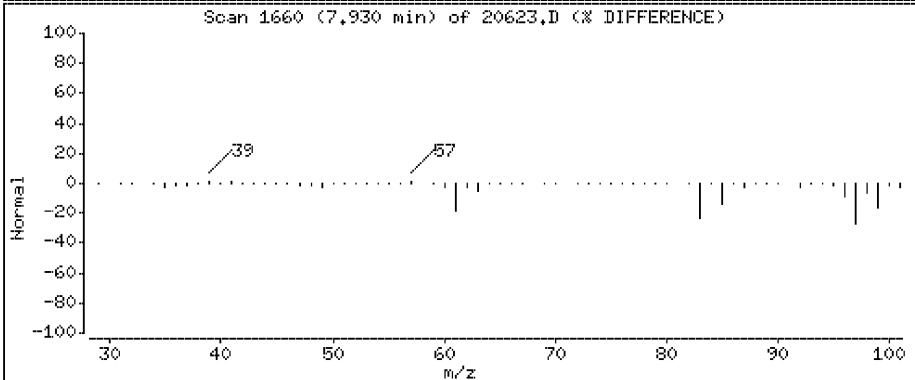
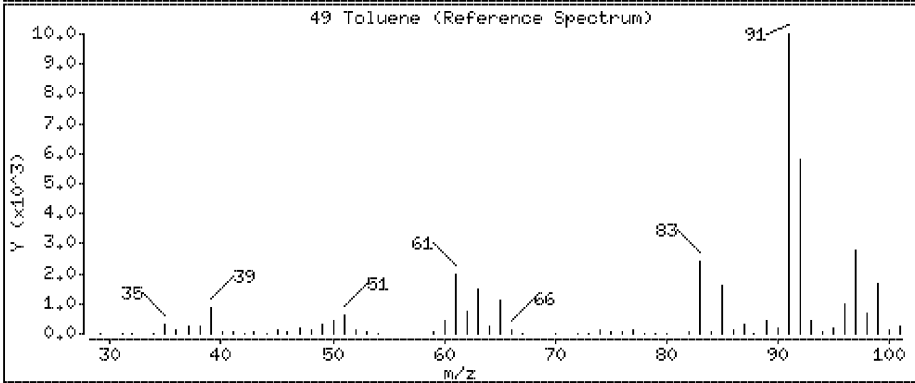
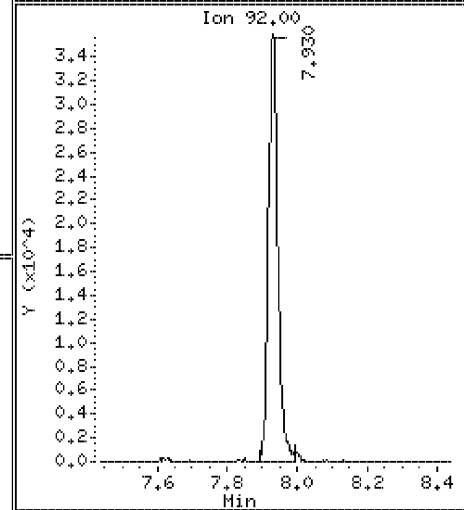
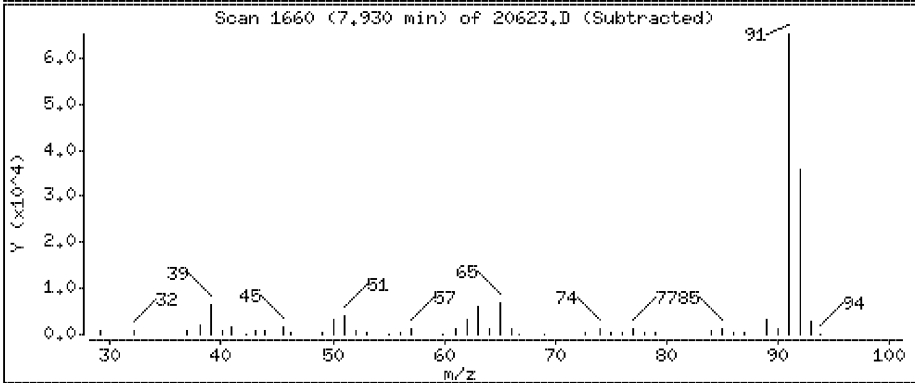
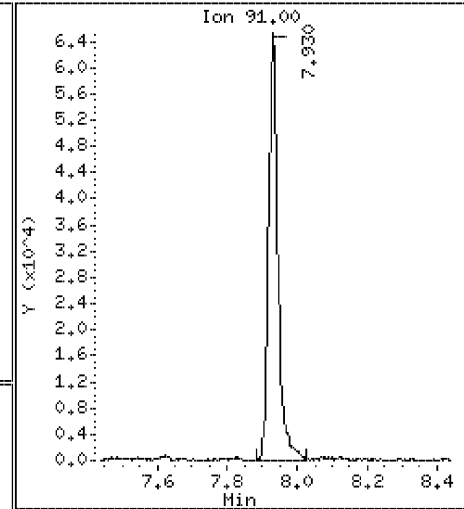
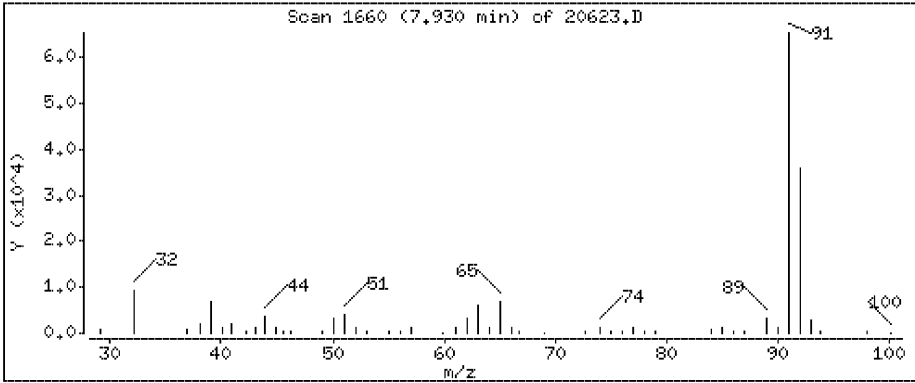
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

49 Toluene

Concentration: 2.57 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20623.D

Date : 25-JUL-2013 23:59

Client ID:

Instrument: 10airD.i

Sample Info:

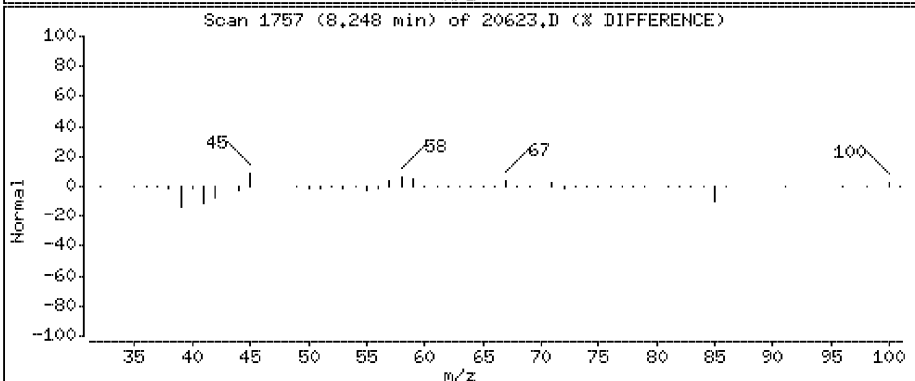
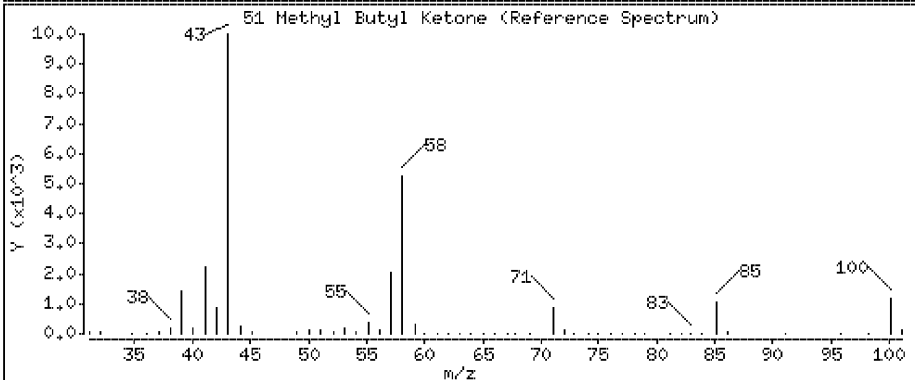
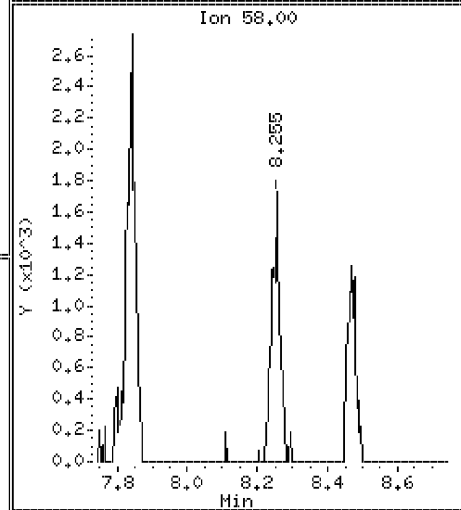
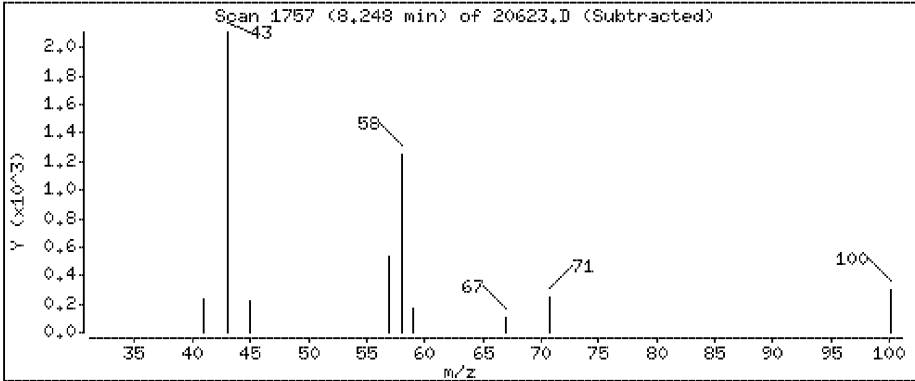
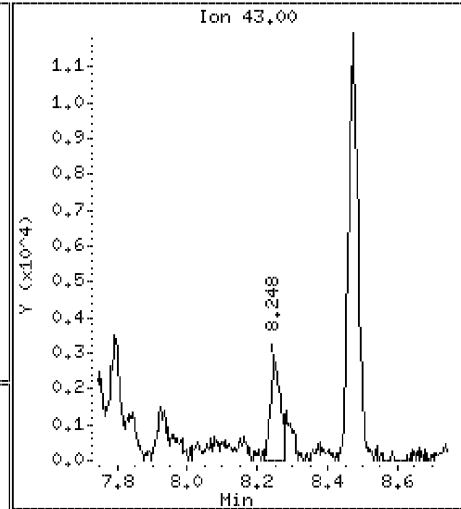
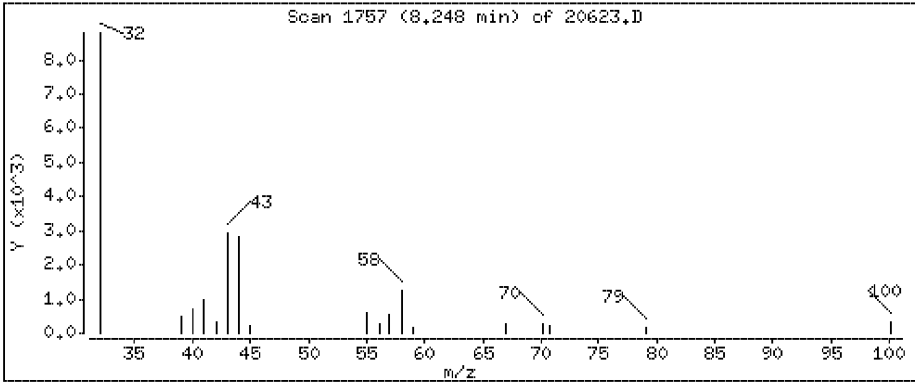
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

51 Methyl Butyl Ketone

Concentration: 0.702 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20623.D

Date : 25-JUL-2013 23:59

Client ID:

Instrument: 10airD.i

Sample Info:

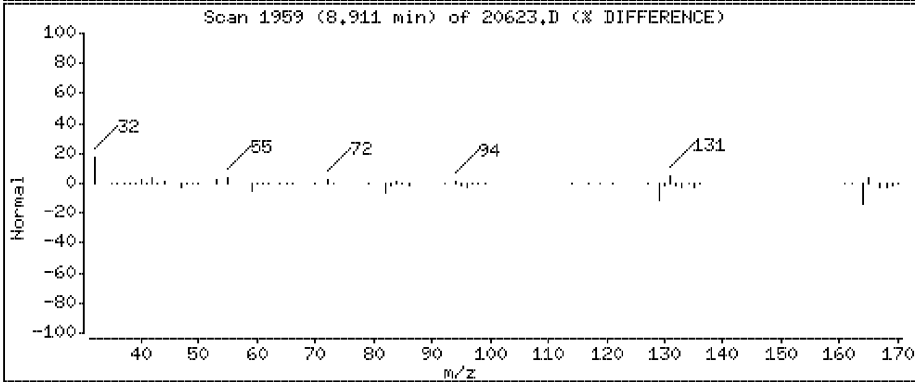
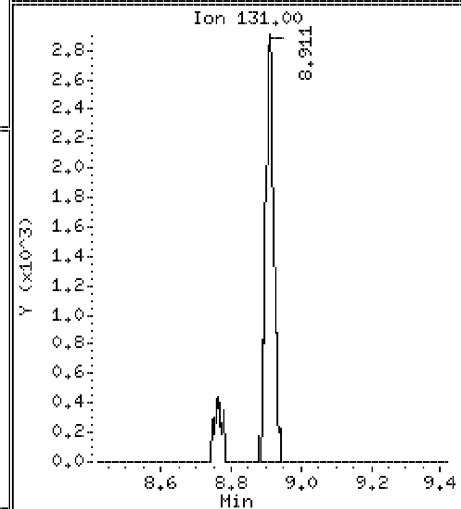
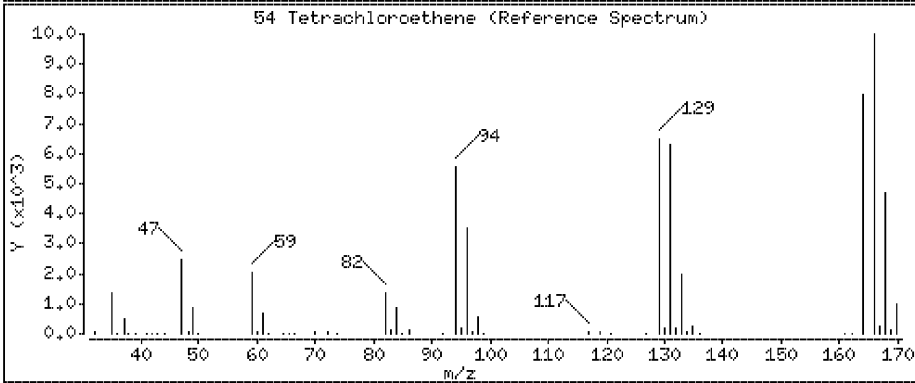
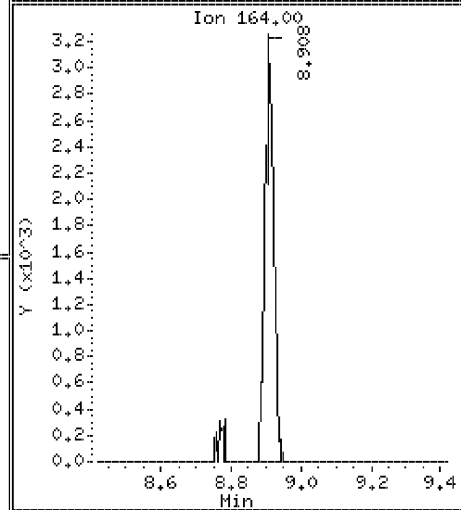
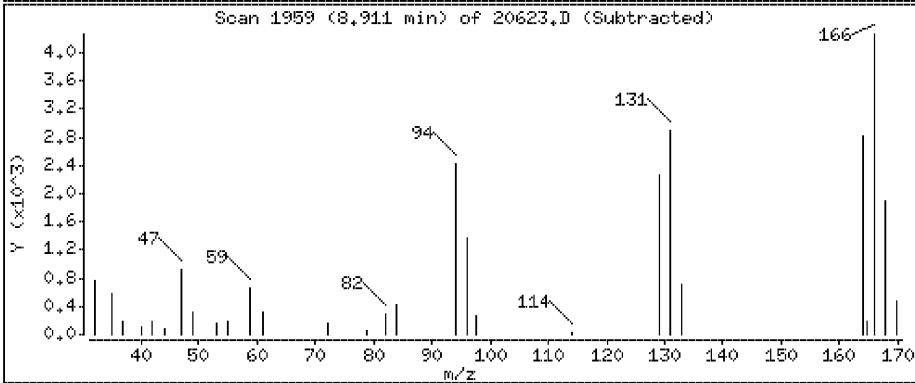
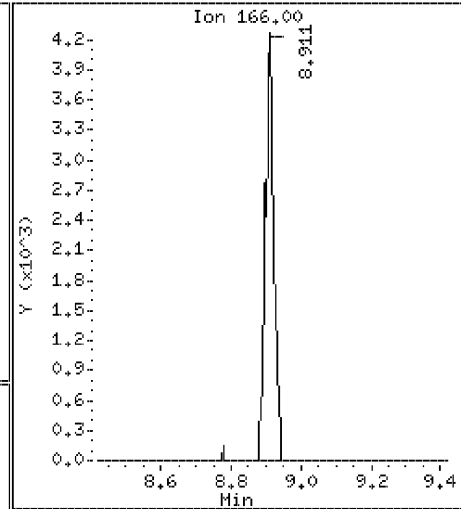
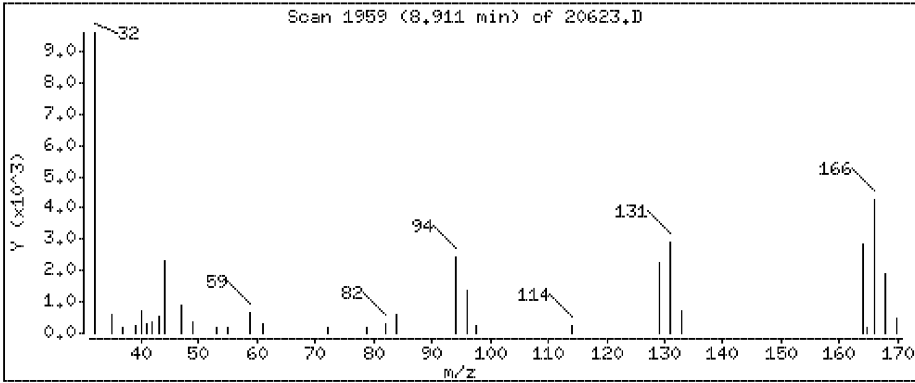
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

54 Tetrachloroethene

Concentration: 0.780 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20623.D

Date : 25-JUL-2013 23:59

Client ID:

Instrument: 10airD.i

Sample Info:

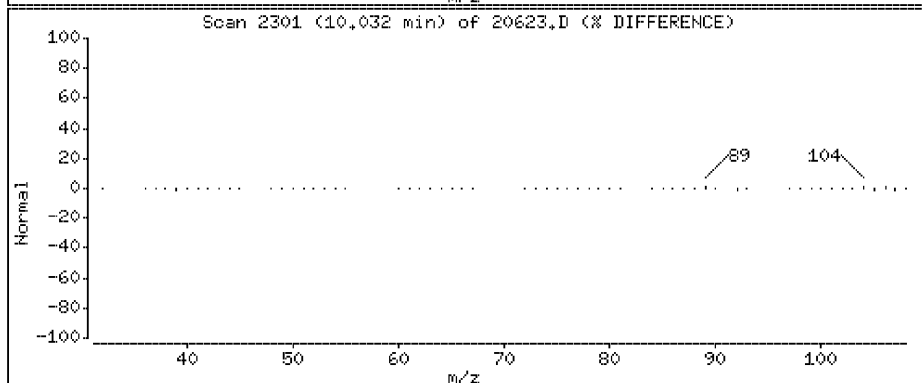
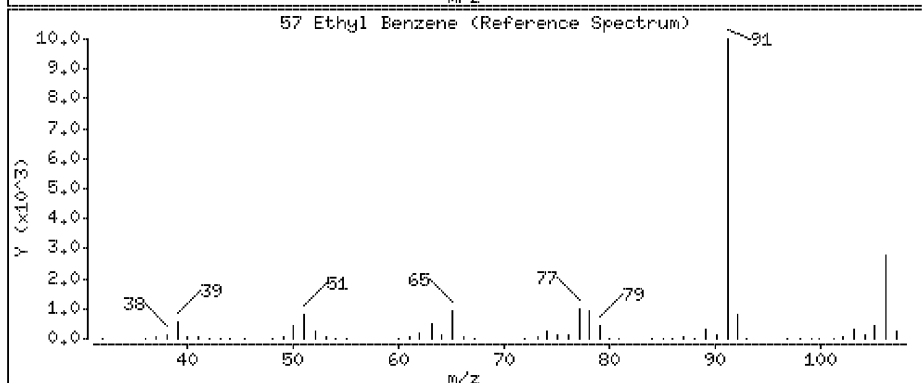
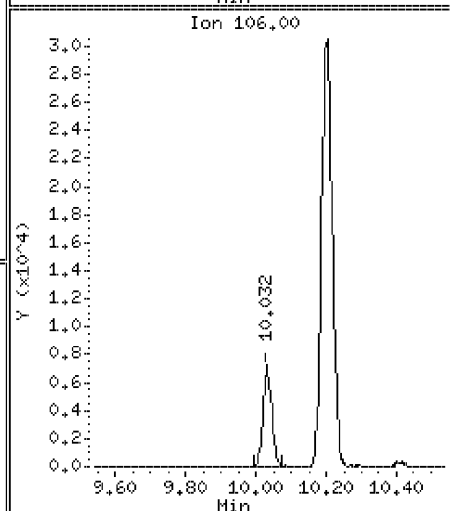
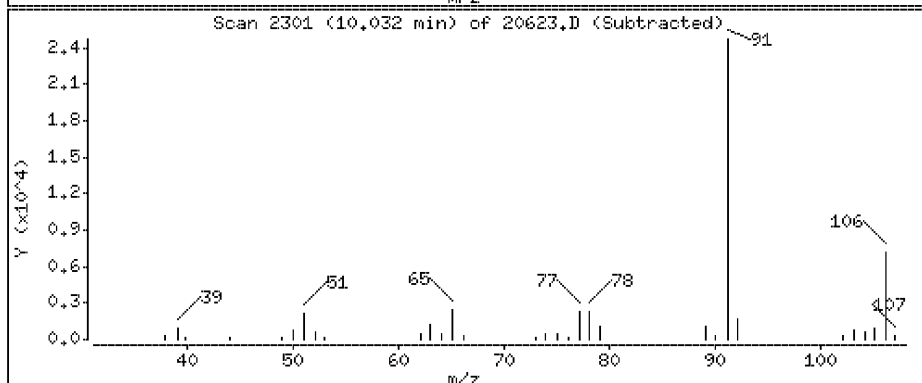
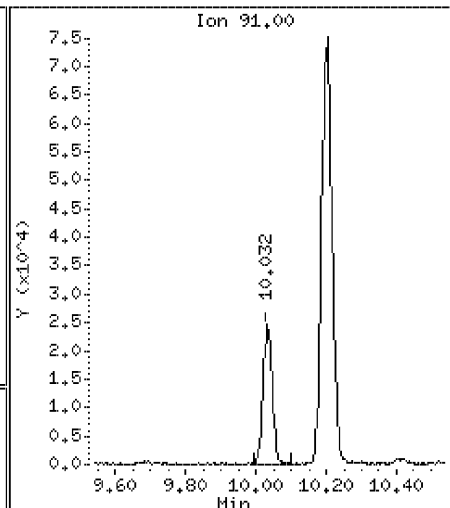
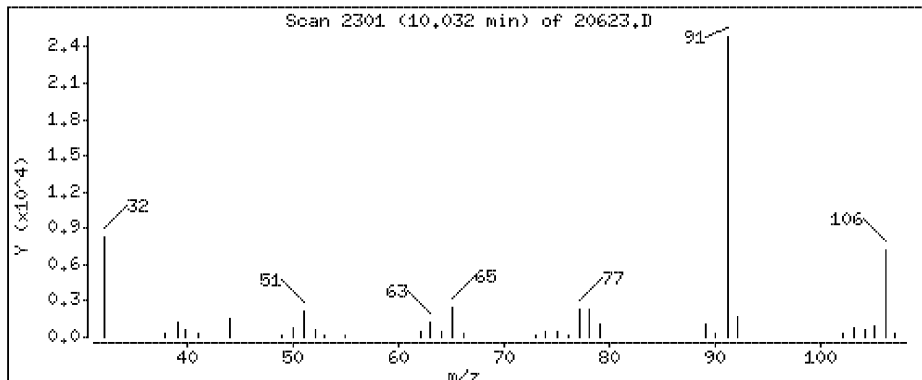
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

57 Ethyl Benzene

Concentration: 1.05 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20623.D

Date : 25-JUL-2013 23:59

Client ID:

Instrument: 10airD.i

Sample Info:

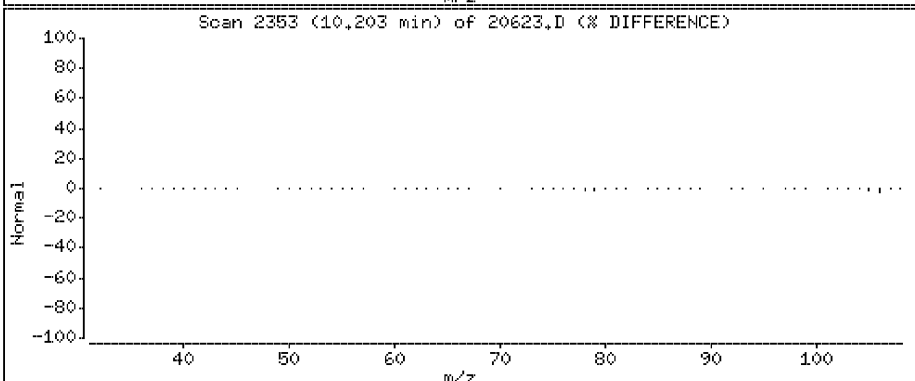
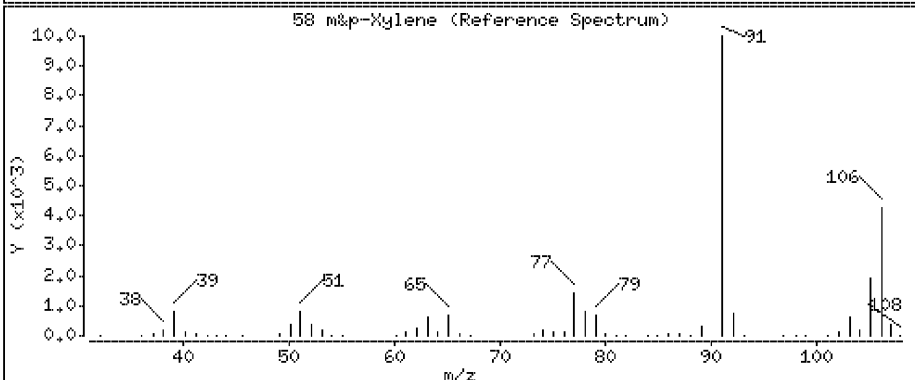
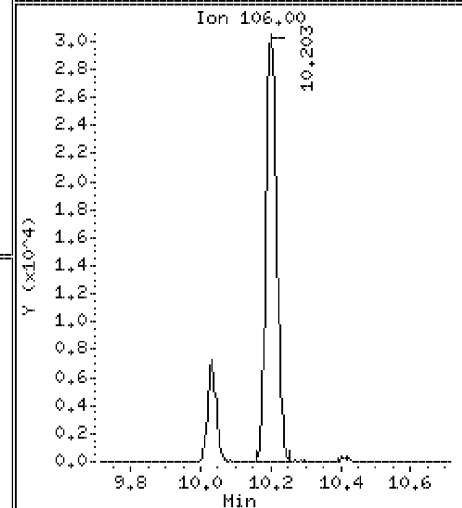
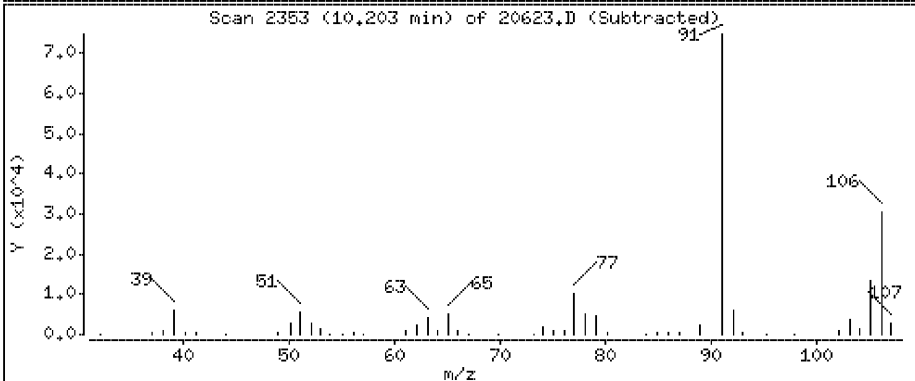
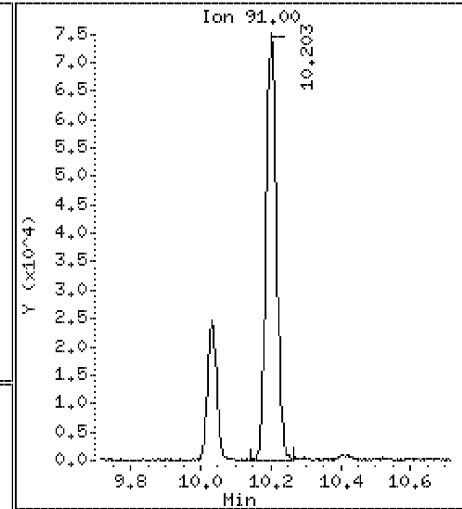
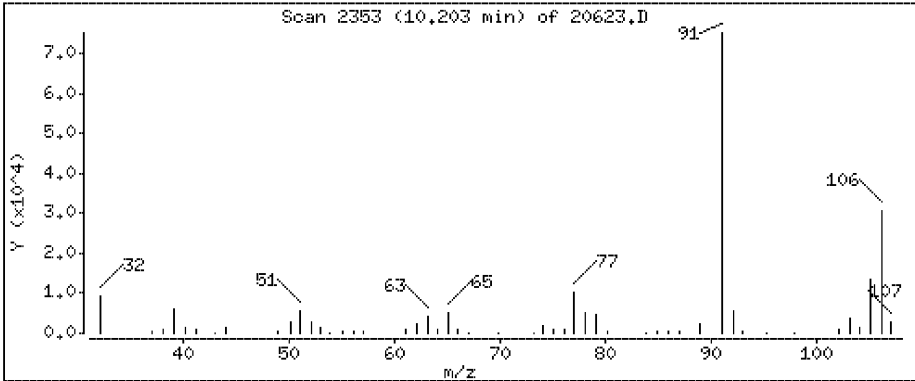
Operator: DR1

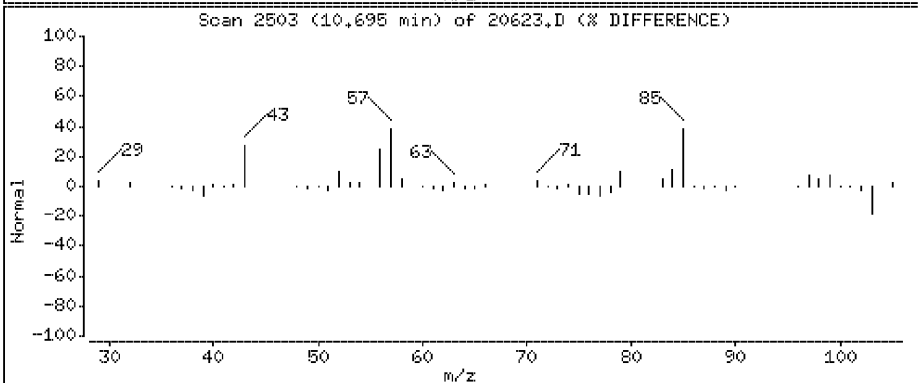
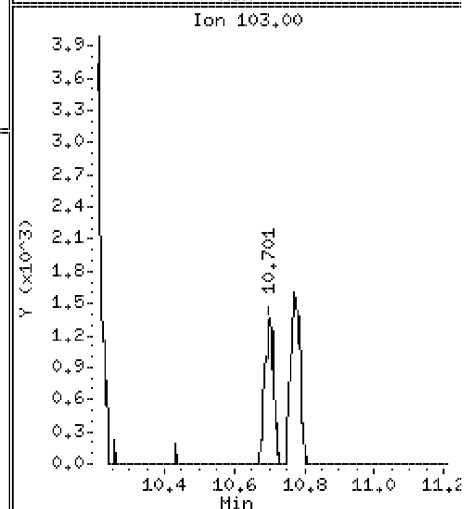
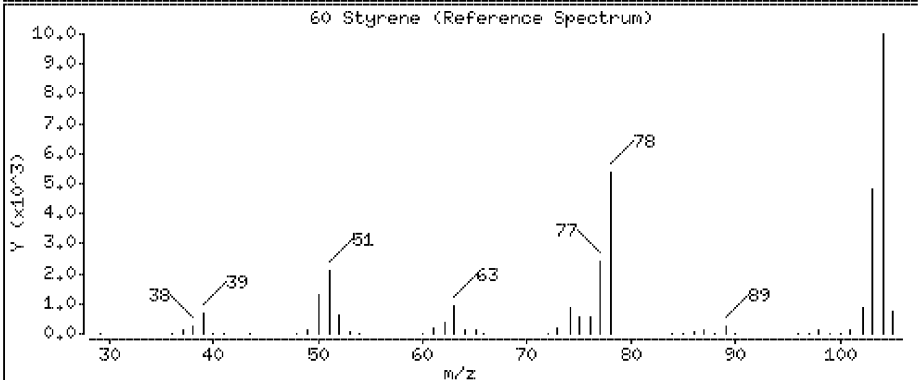
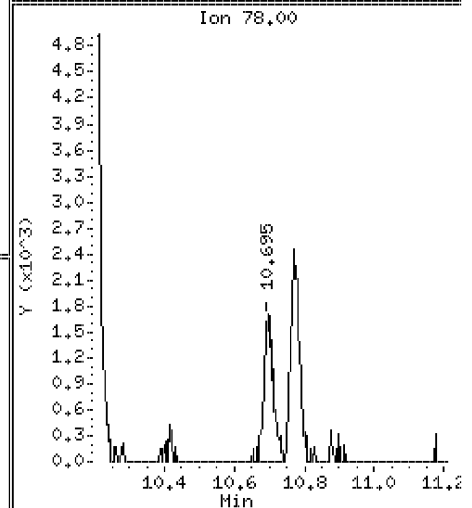
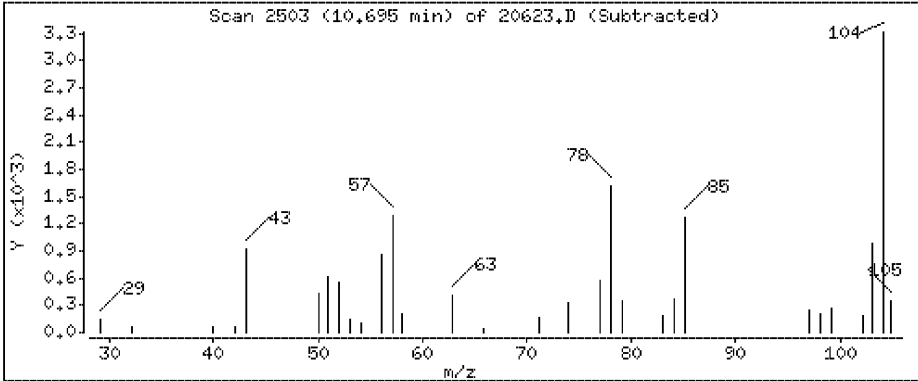
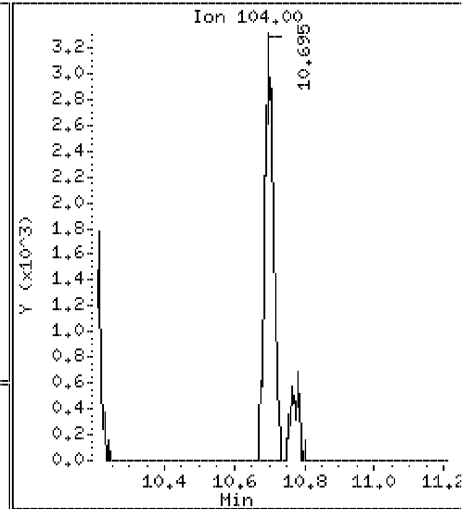
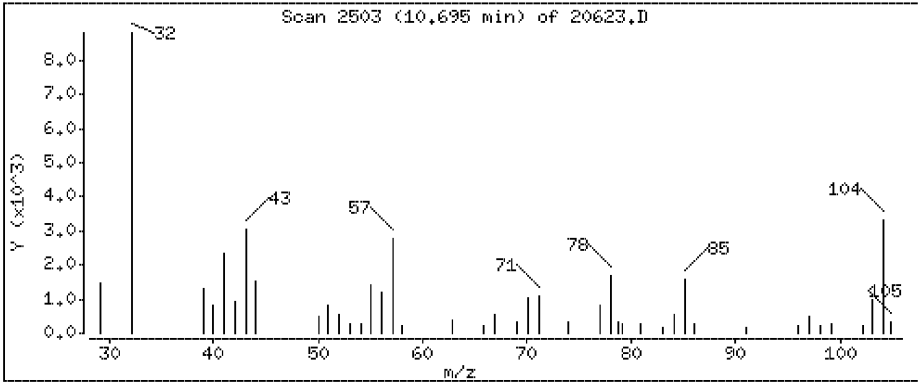
Column phase: J&W DB-5

Column diameter: 0,32

58 m&p-Xylene

Concentration: 3.02 ppbv





Data File: \\192.168.10.12\chem\10airD.i\072513,b\20623.D

Date : 25-JUL-2013 23:59

Client ID:

Instrument: 10airD.i

Sample Info:

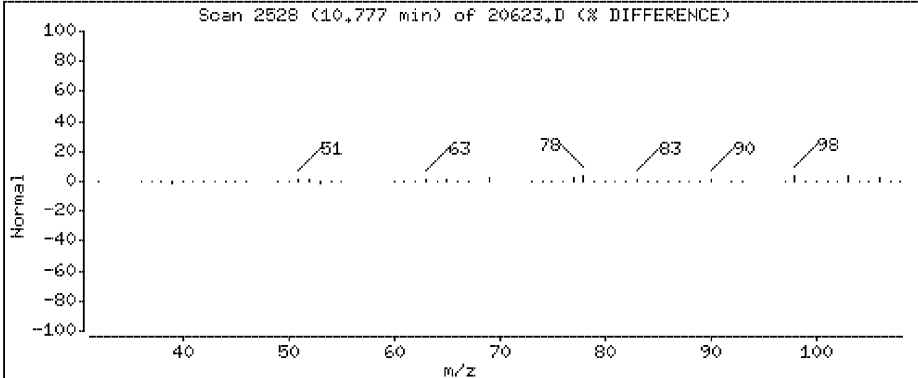
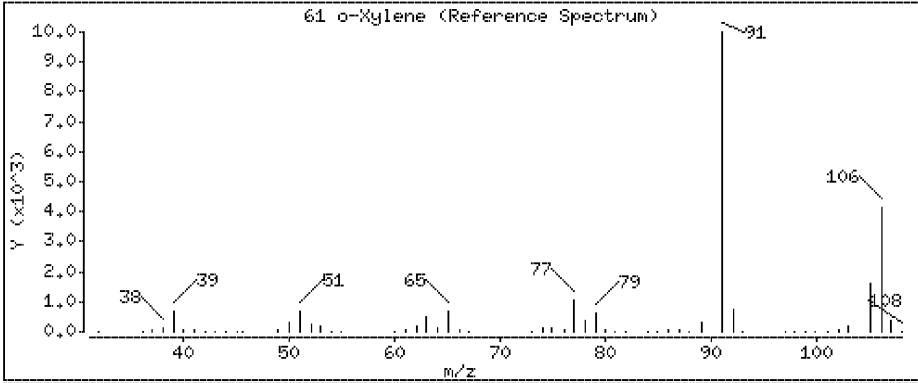
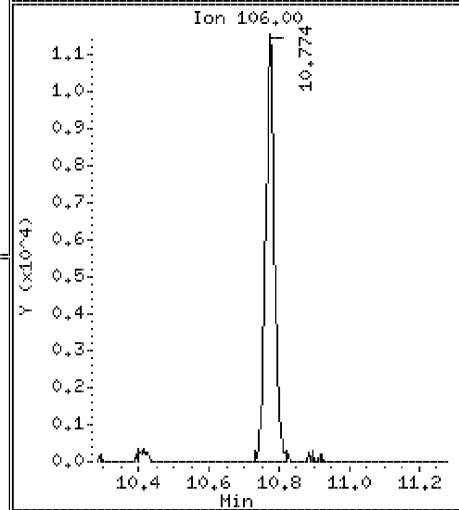
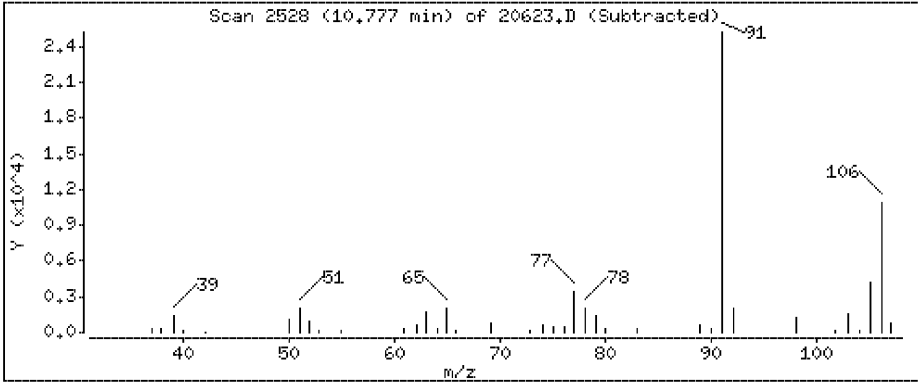
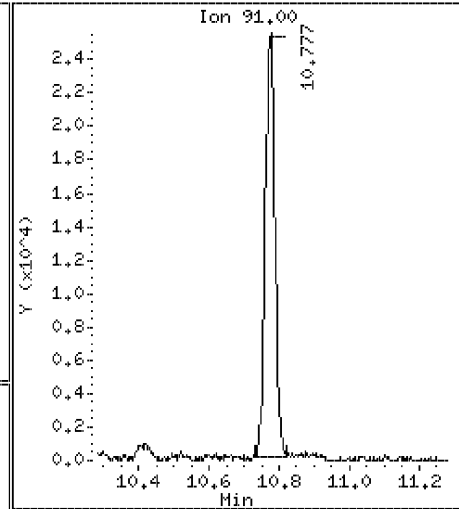
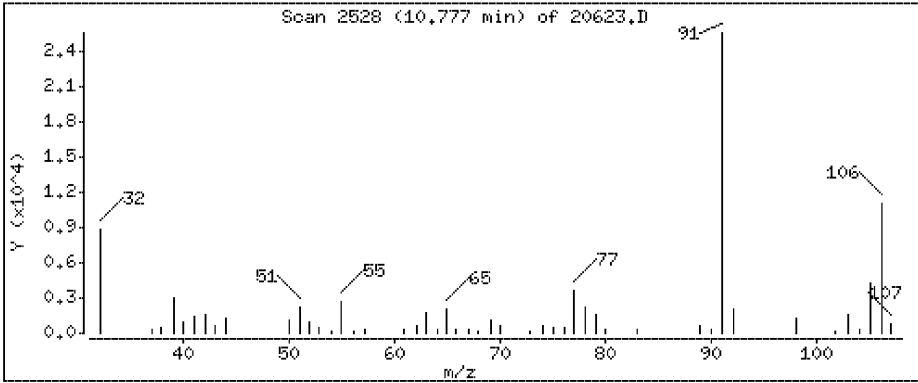
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

61 o-Xylene

Concentration: 1.08 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20623.D

Date : 25-JUL-2013 23:59

Client ID:

Instrument: 10airD.i

Sample Info:

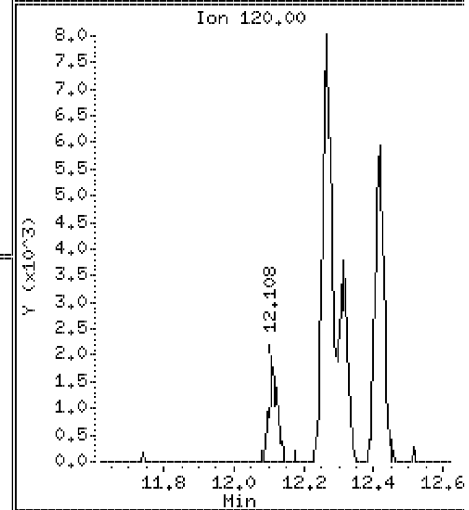
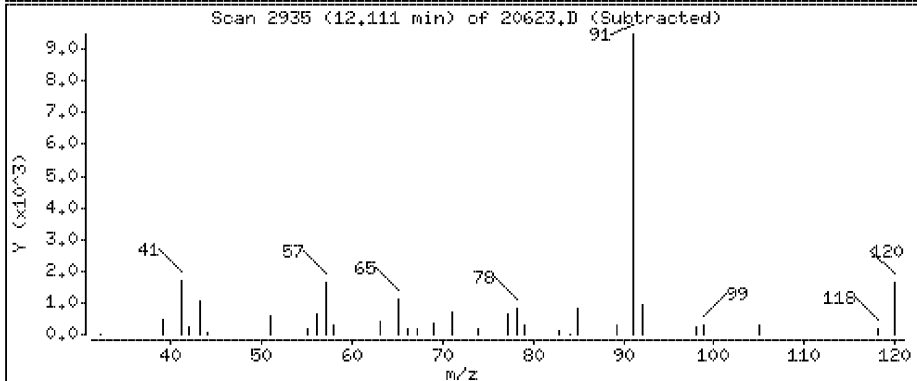
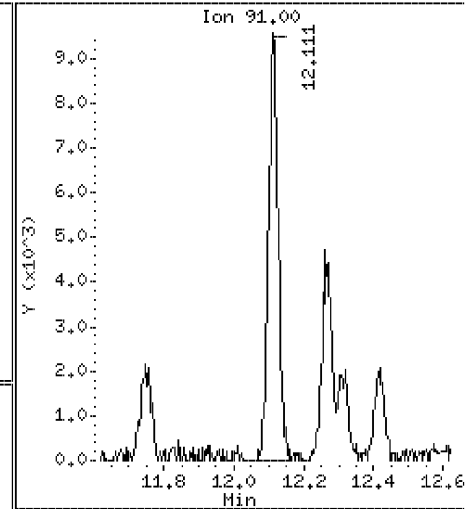
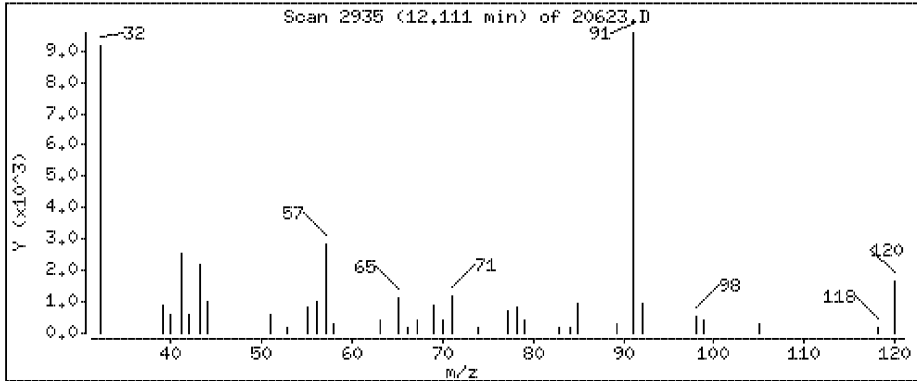
Operator: DR1

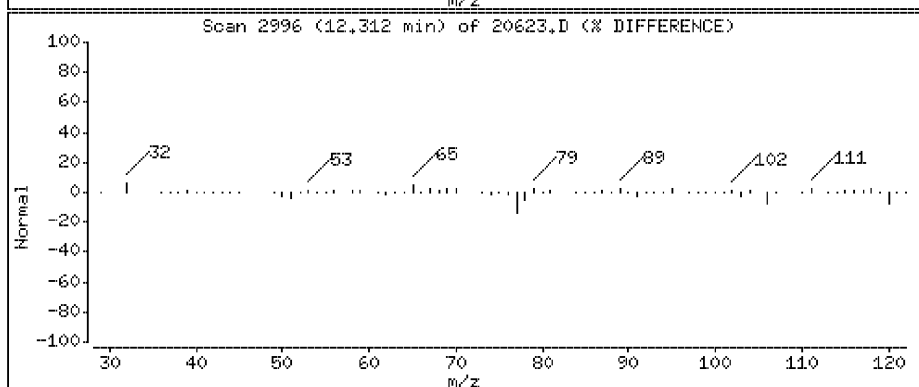
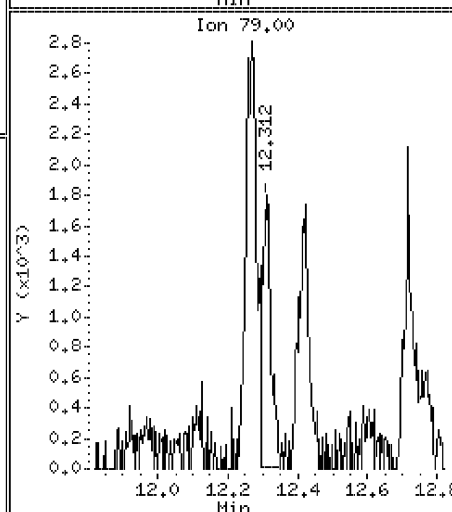
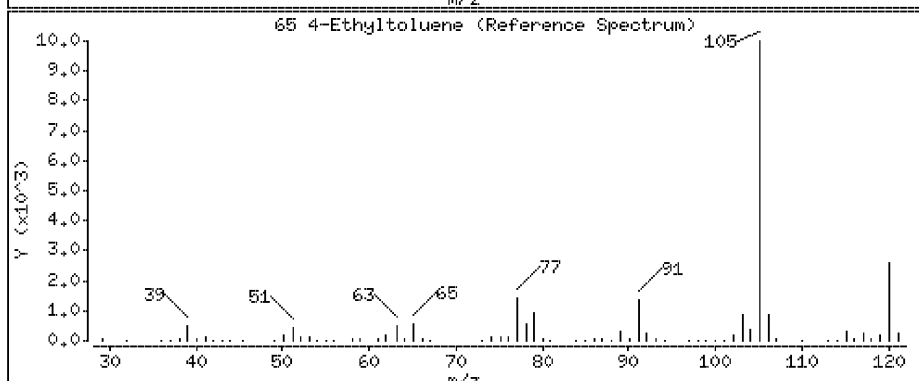
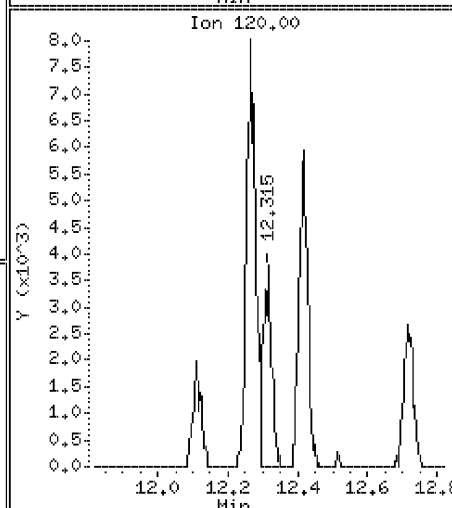
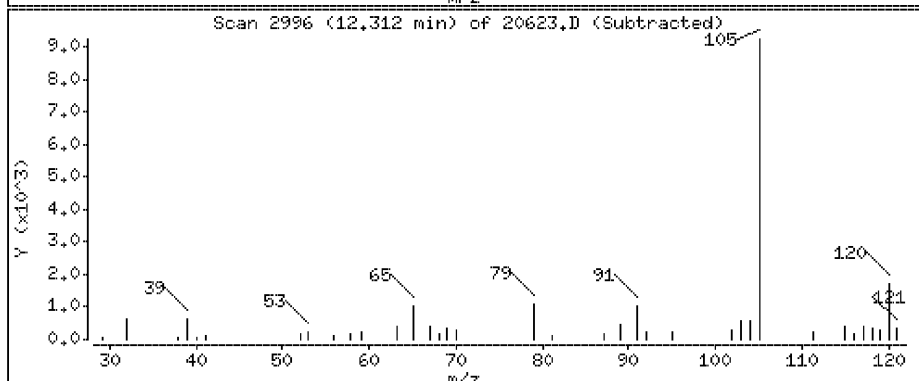
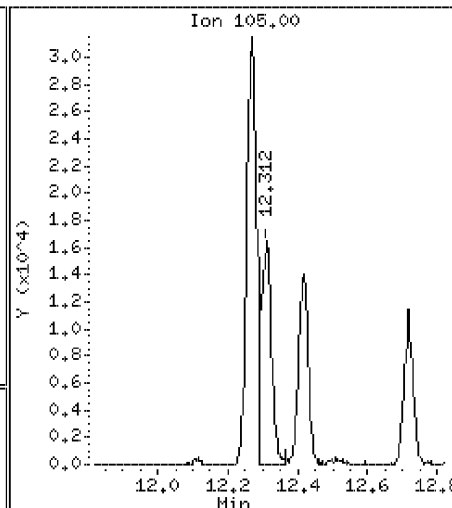
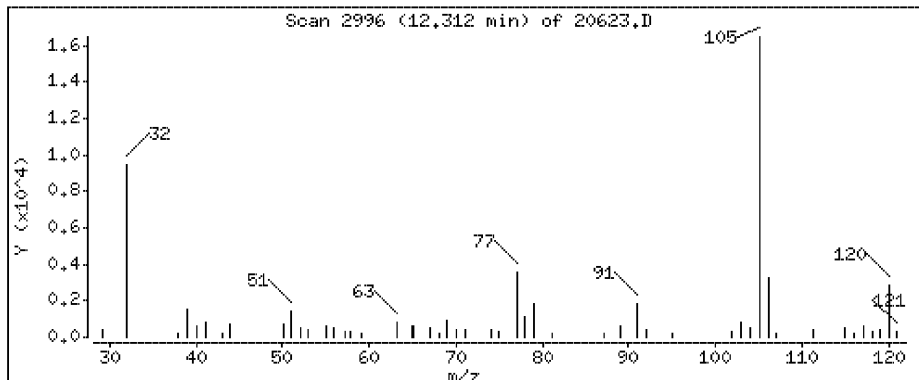
Column phase: J&W DB-5

Column diameter: 0.32

64 N-Propylbenzene

Concentration: 0.631 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20623.D

Date : 25-JUL-2013 23:59

Client ID:

Instrument: 10airD.i

Sample Info:

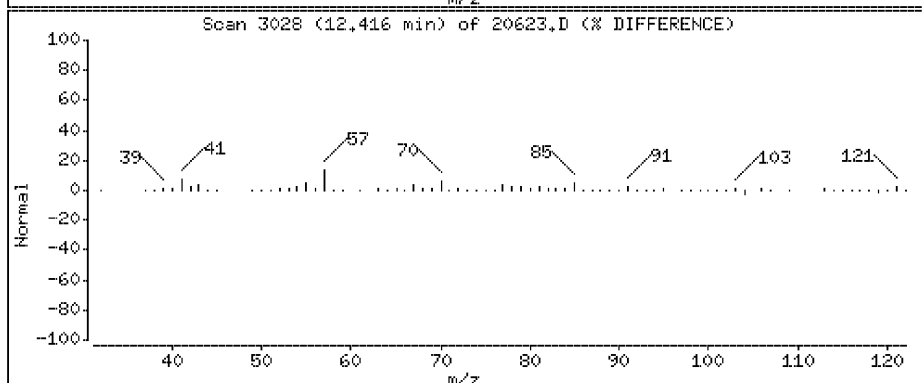
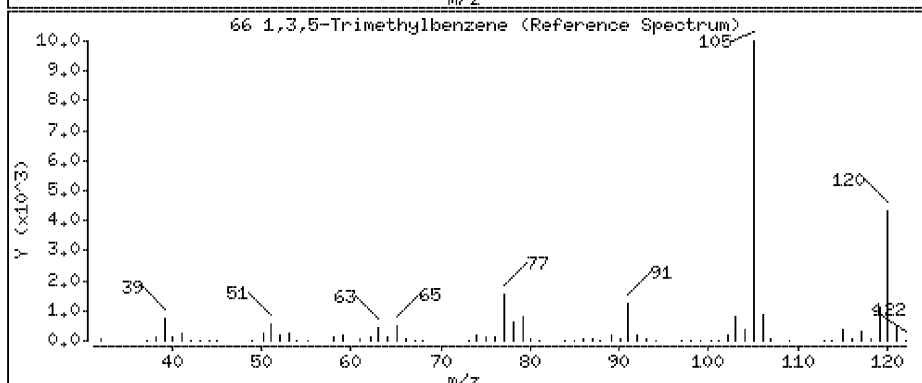
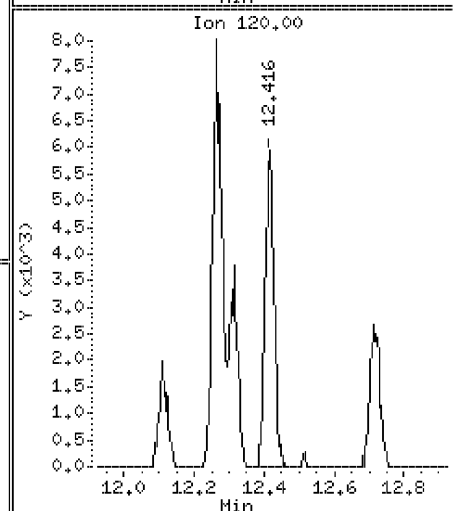
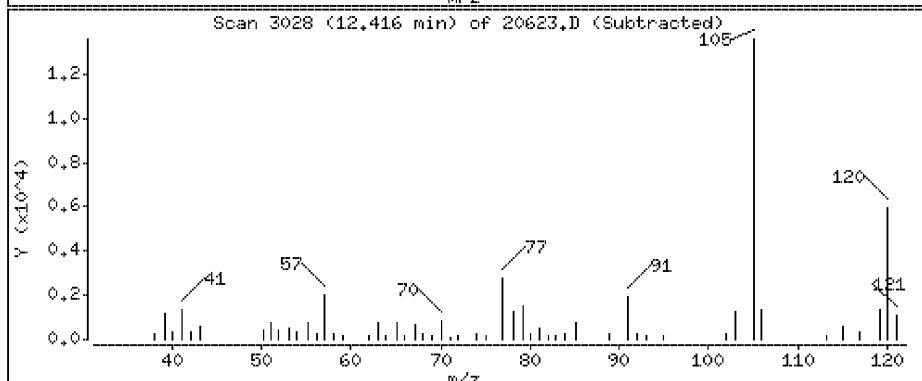
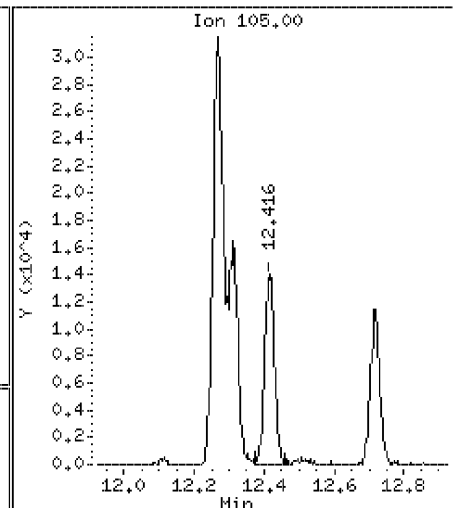
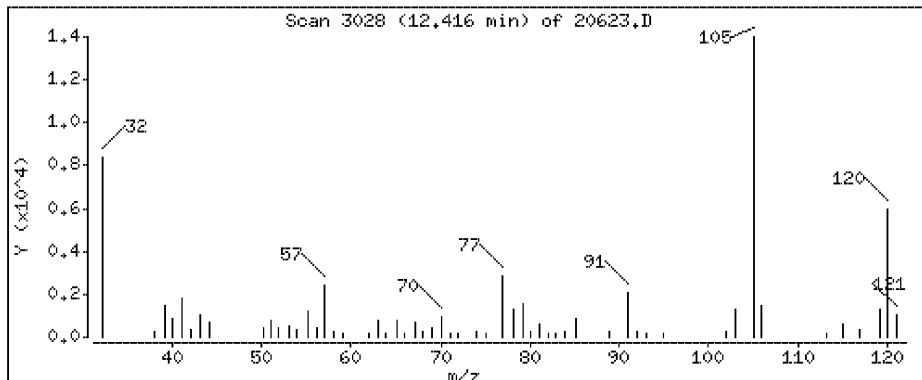
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

66 1,3,5-Trimethylbenzene

Concentration: 0.867 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20623.D

Date : 25-JUL-2013 23:59

Client ID:

Instrument: 10airD.i

Sample Info:

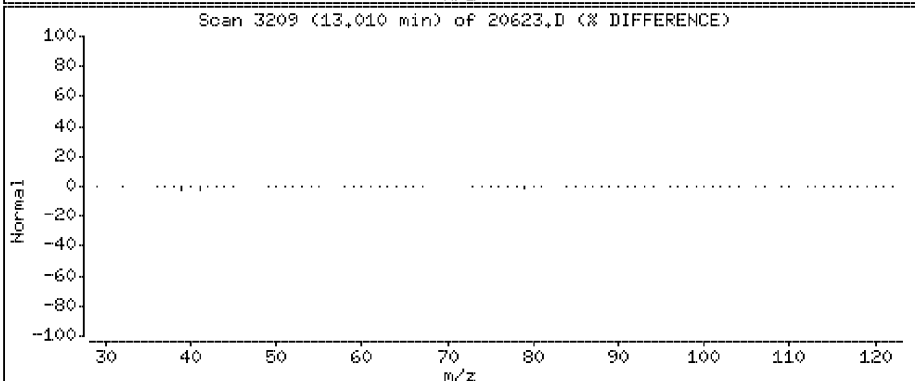
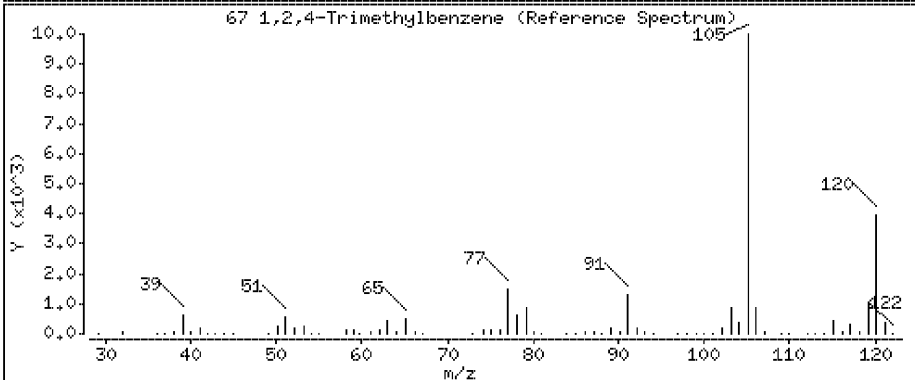
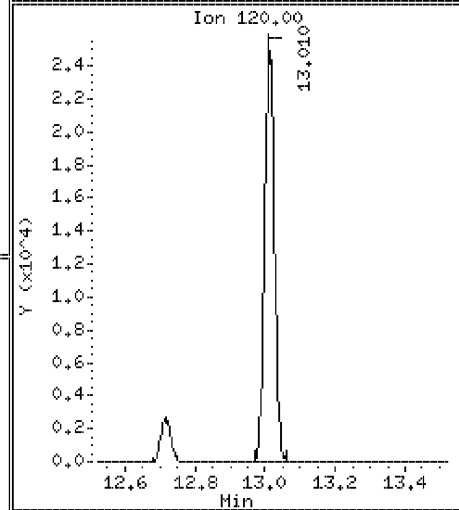
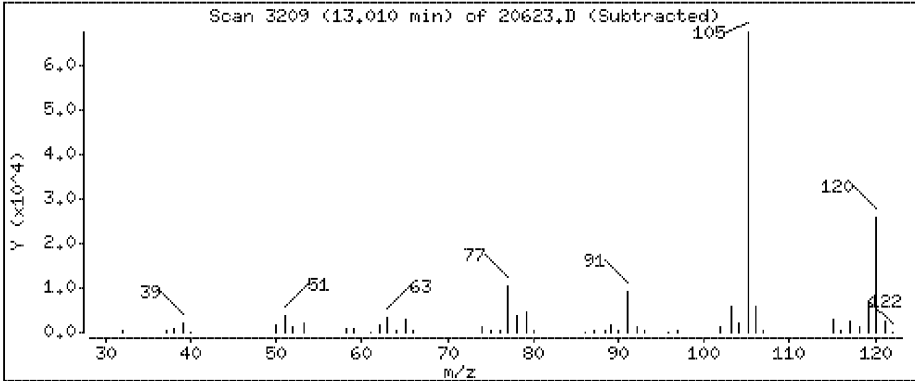
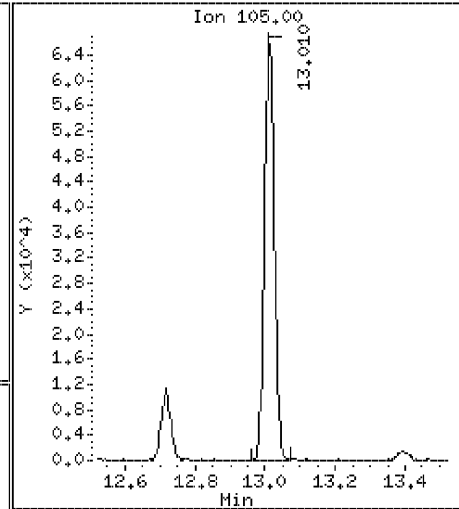
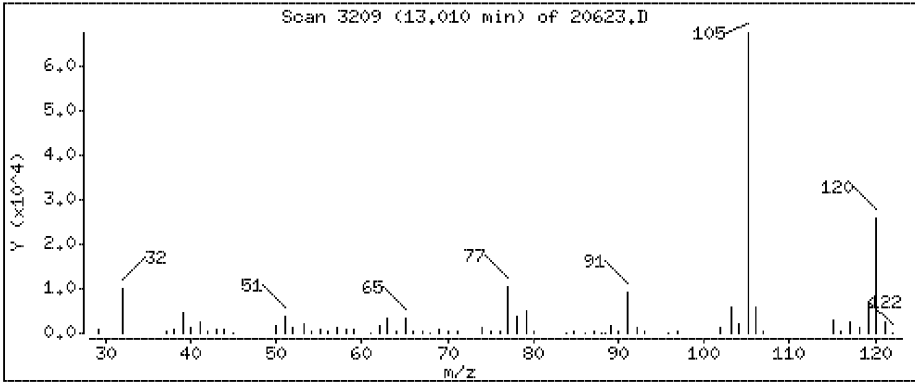
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

67 1,2,4-Trimethylbenzene

Concentration: 2.67 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20623.D

Date : 25-JUL-2013 23:59

Client ID:

Instrument: 10airD.i

Sample Info:

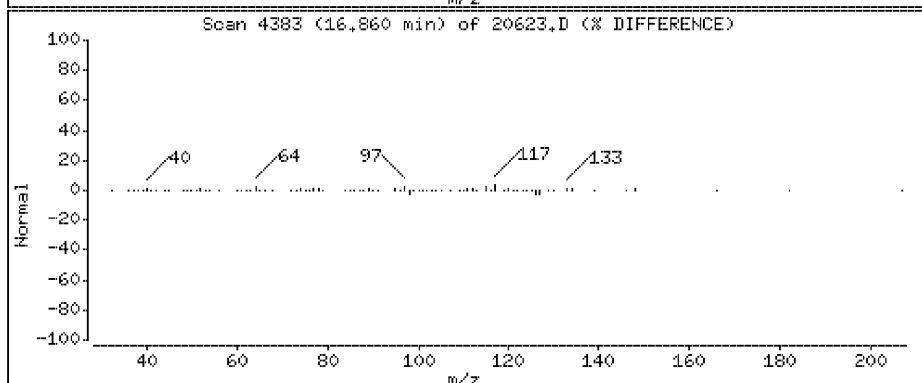
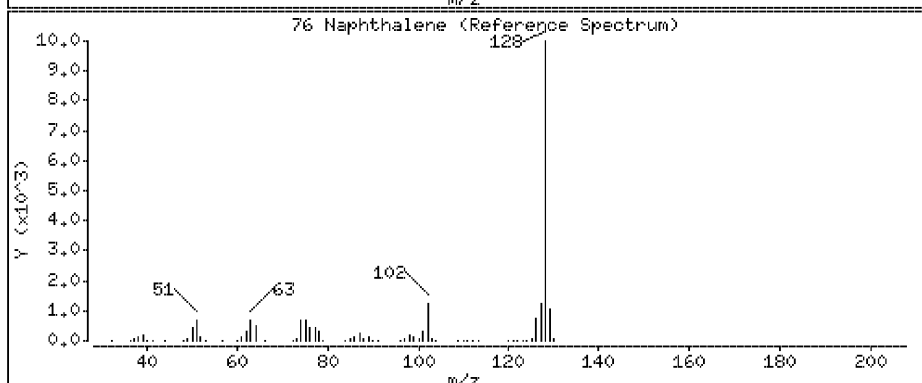
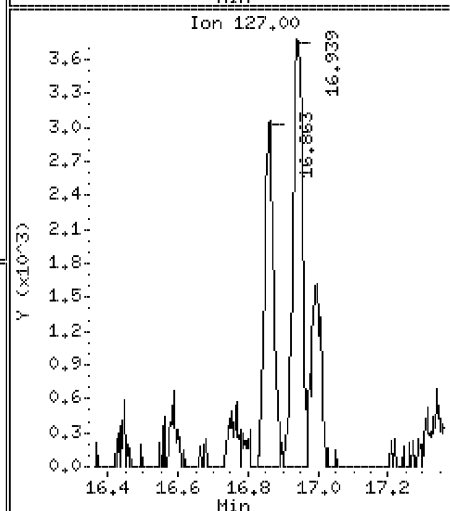
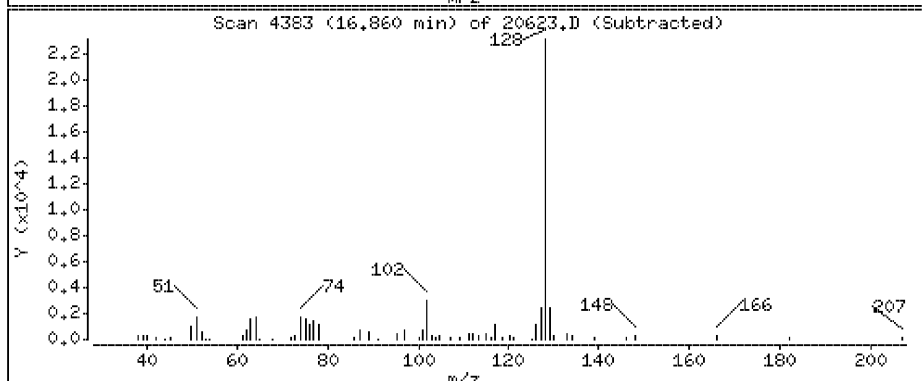
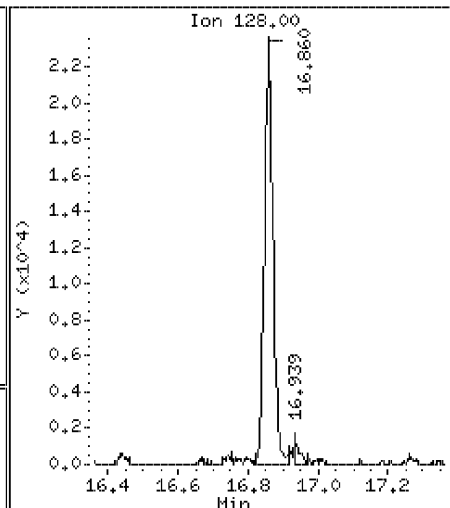
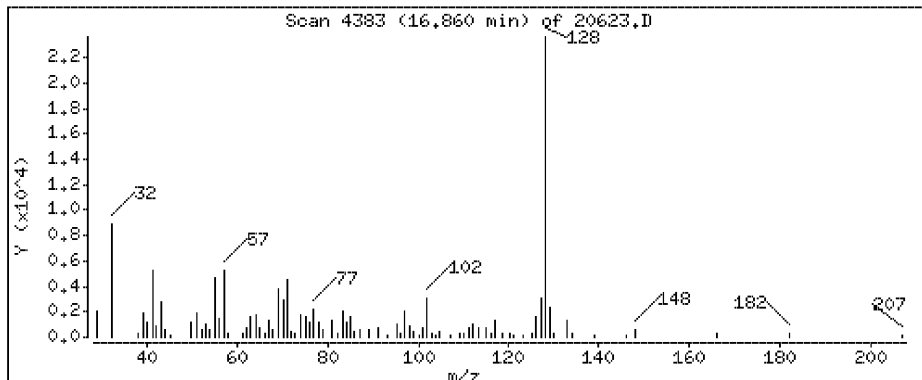
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

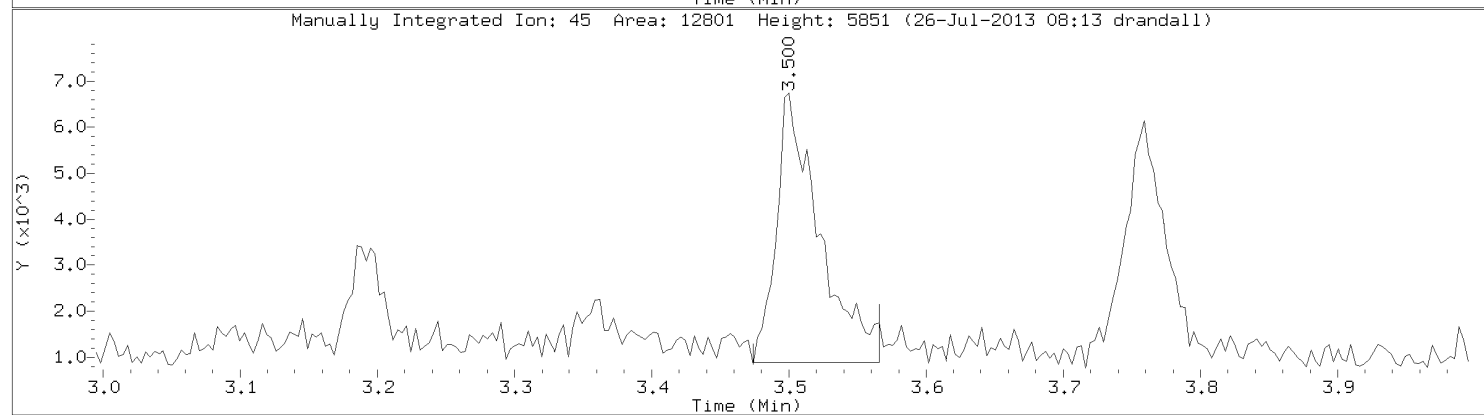
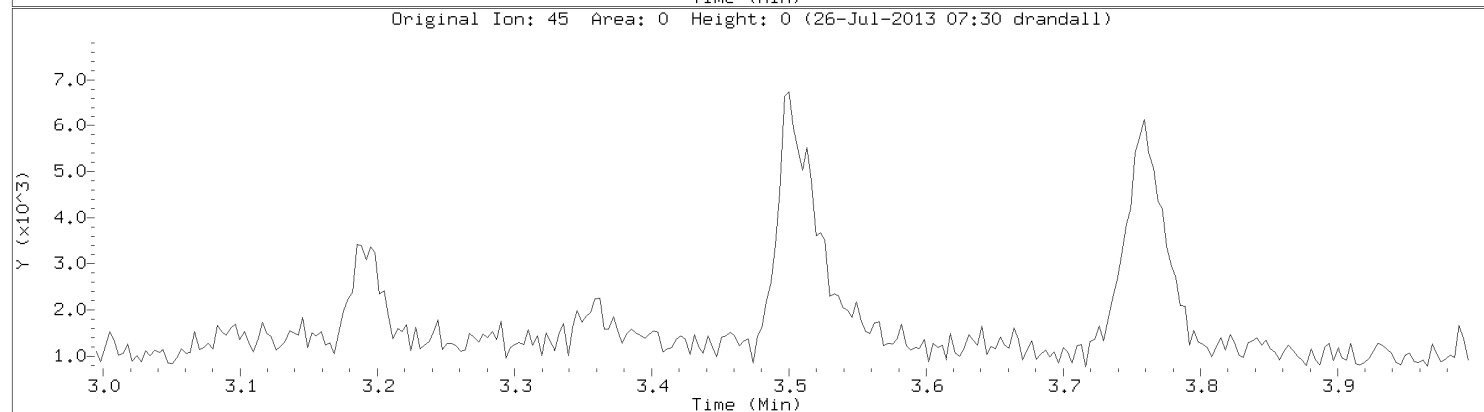
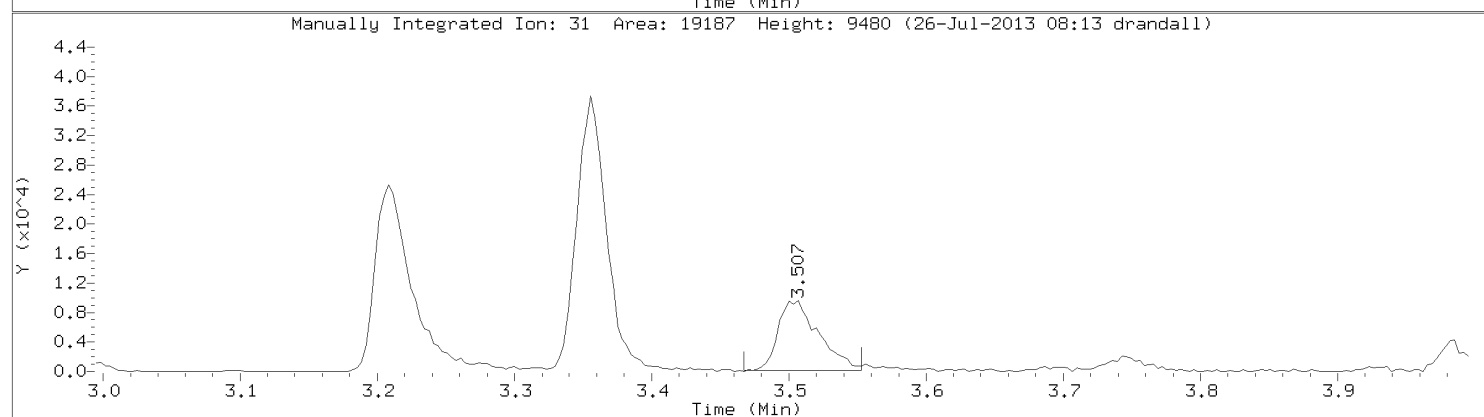
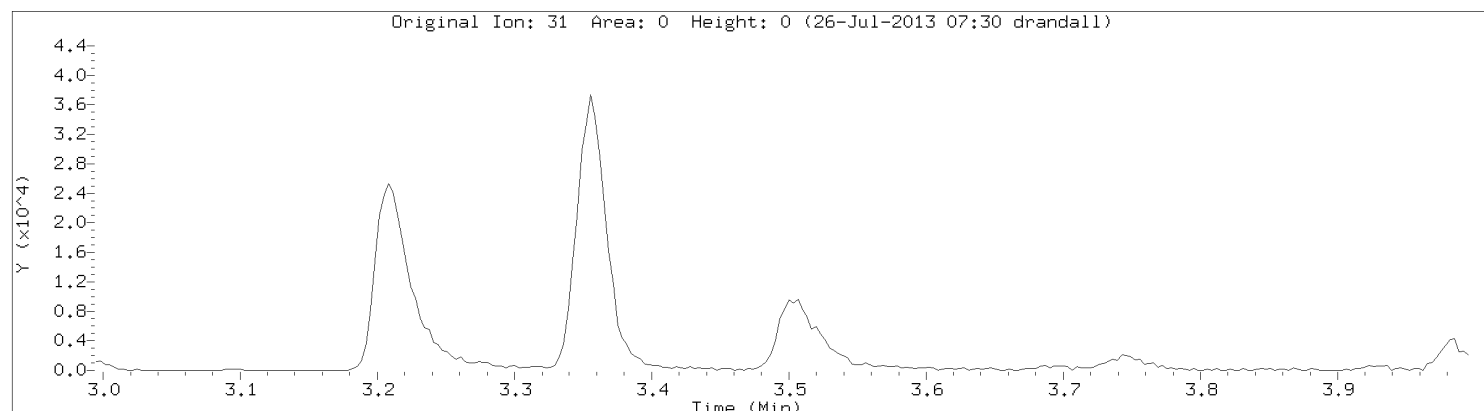
76 Naphthalene

Concentration: 1.88 ppbv



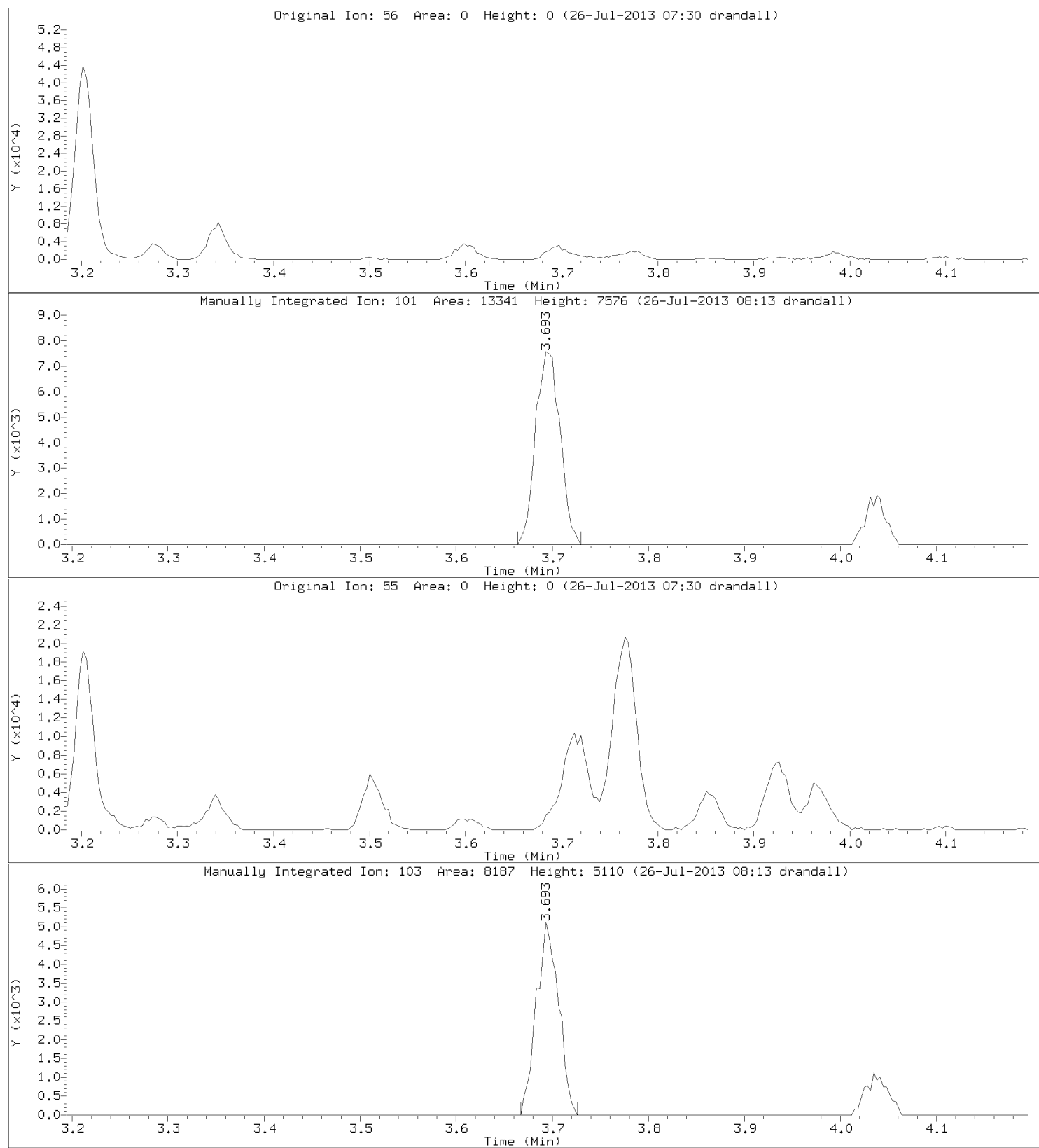
Data File: \\192.168.10.12\chem\10airD.i\072513.b\20623.d
Injection Date: 25-JUL-2013 23:59
Instrument: 10airD.i
Lab Sample ID: 10236207007

Compound: Ethanol
CAS Number: 64-17-5

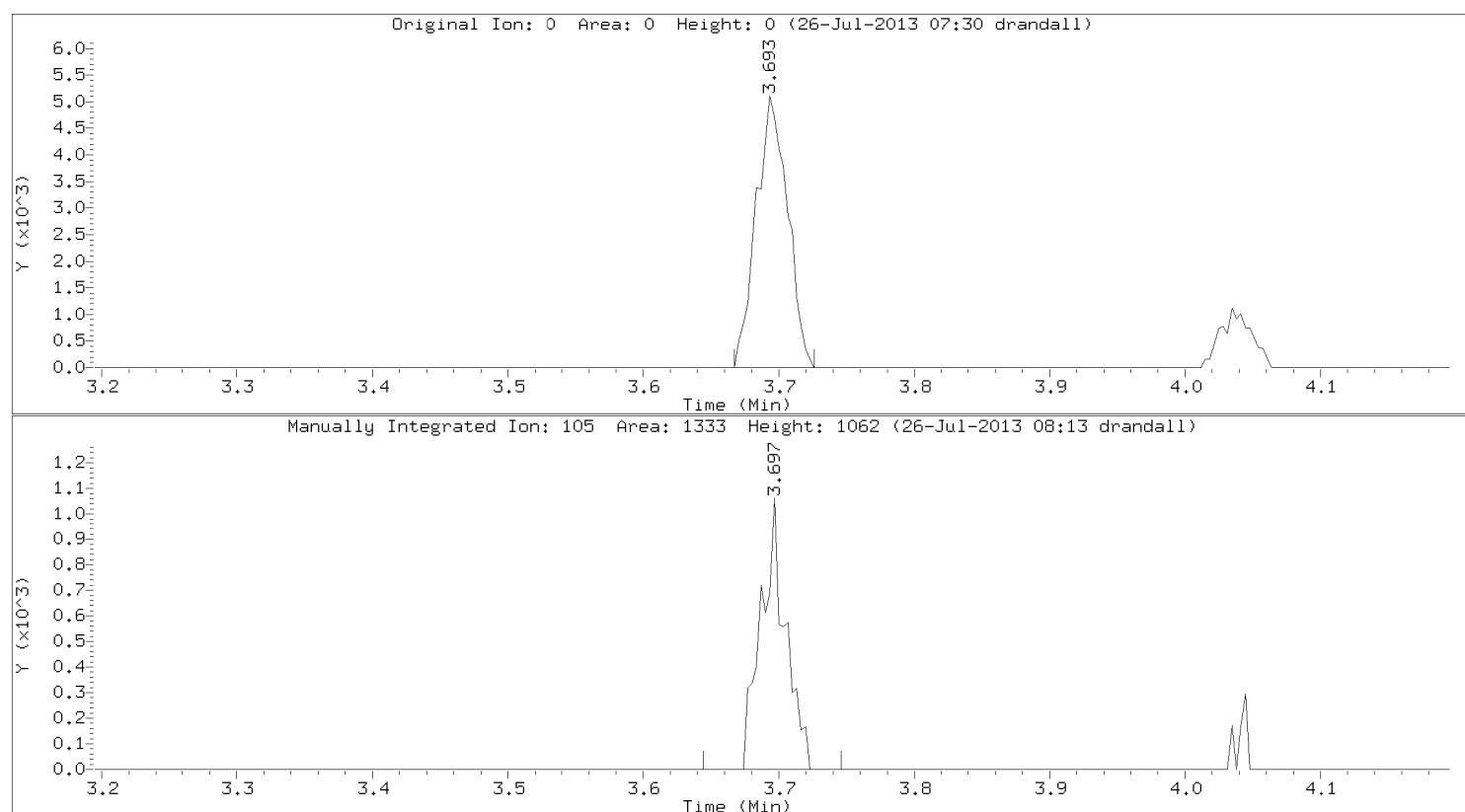


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Injection Date: 25-JUL-2013 23:59
Instrument: 10airD.i
Lab Sample ID: 10236207007

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

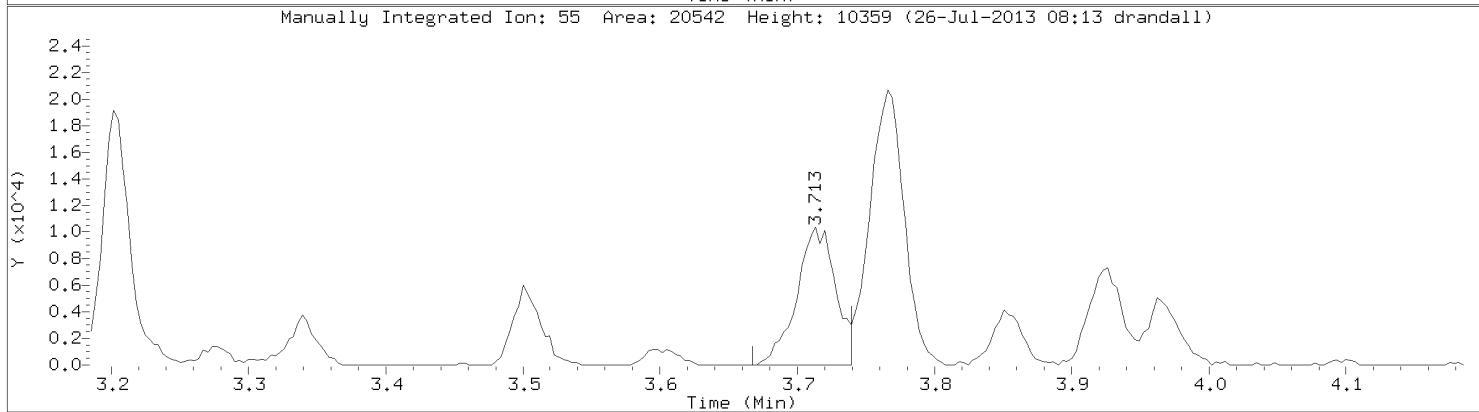
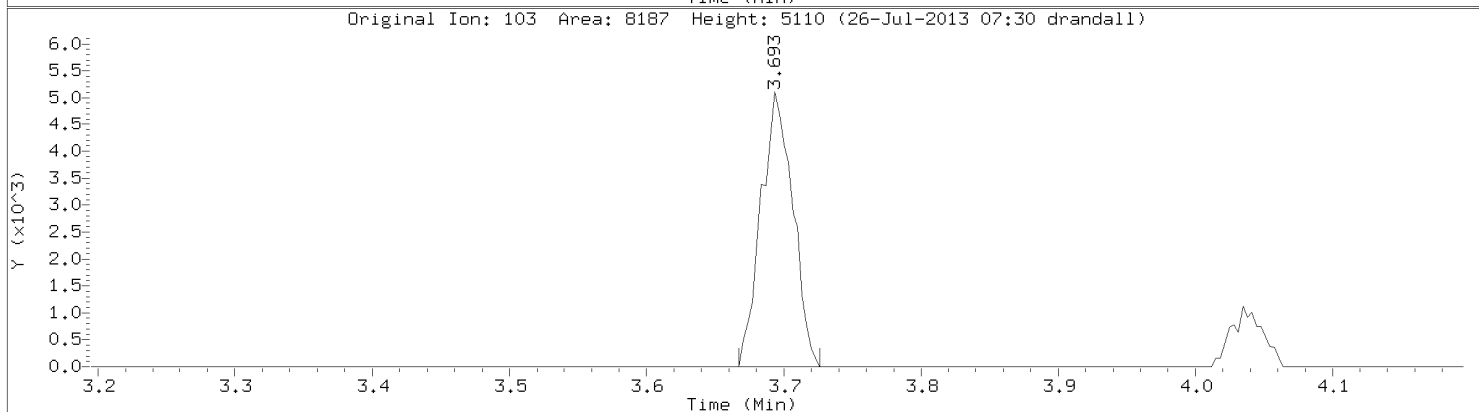
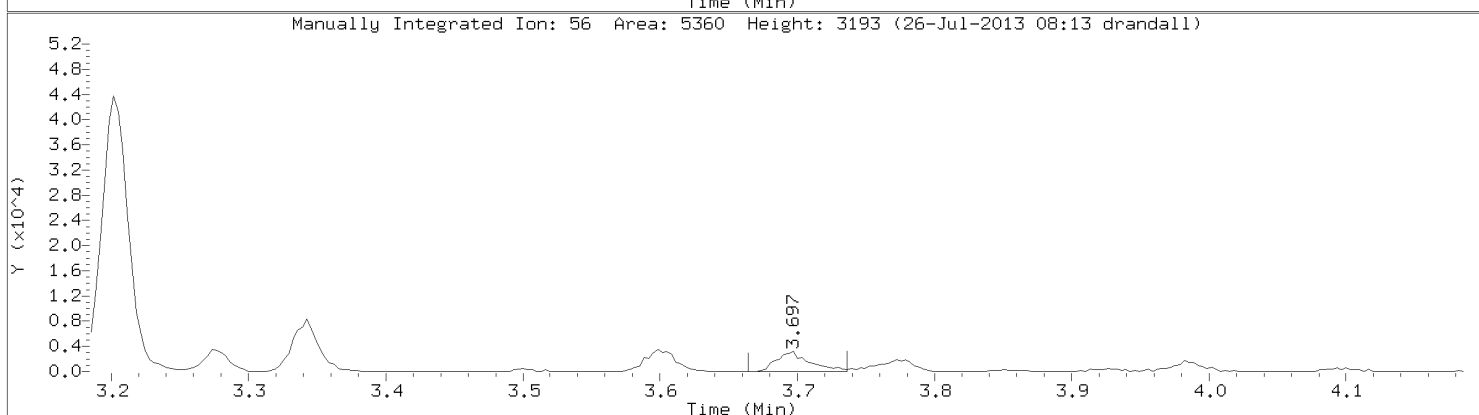
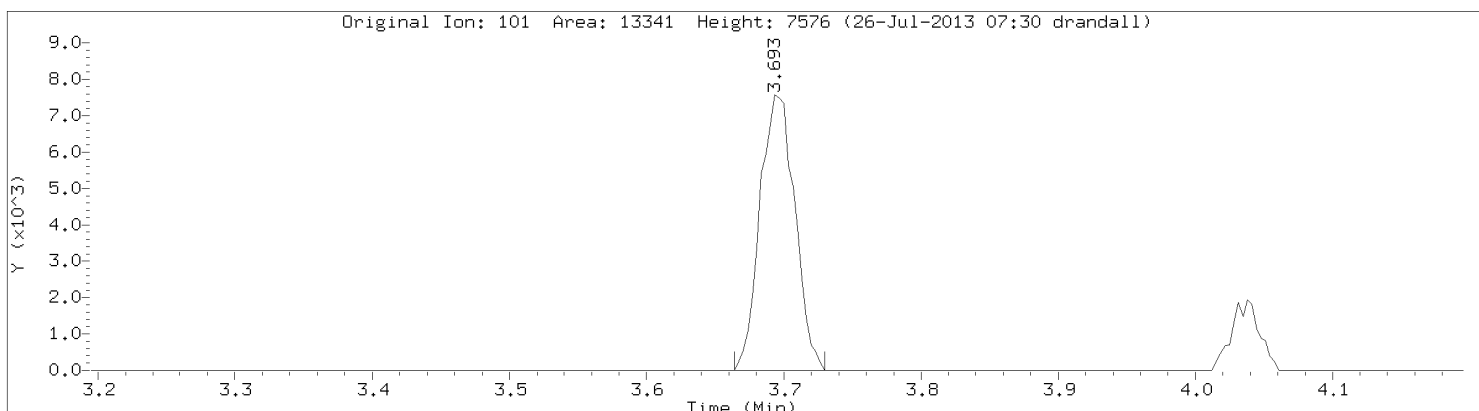


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Injection Date: 25-JUL-2013 23:59
Instrument: 10airD.i
Lab Sample ID: 10236207007



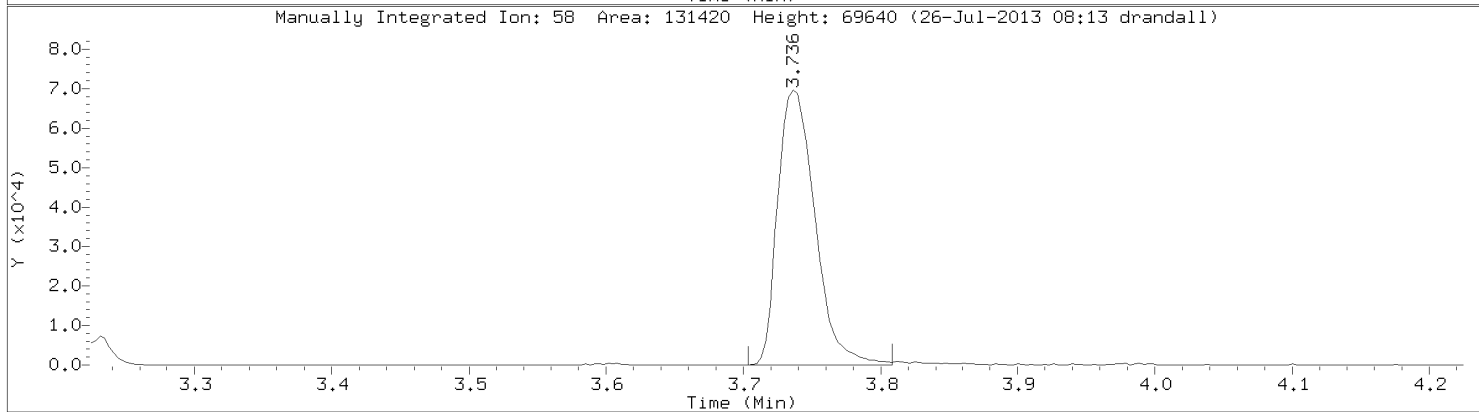
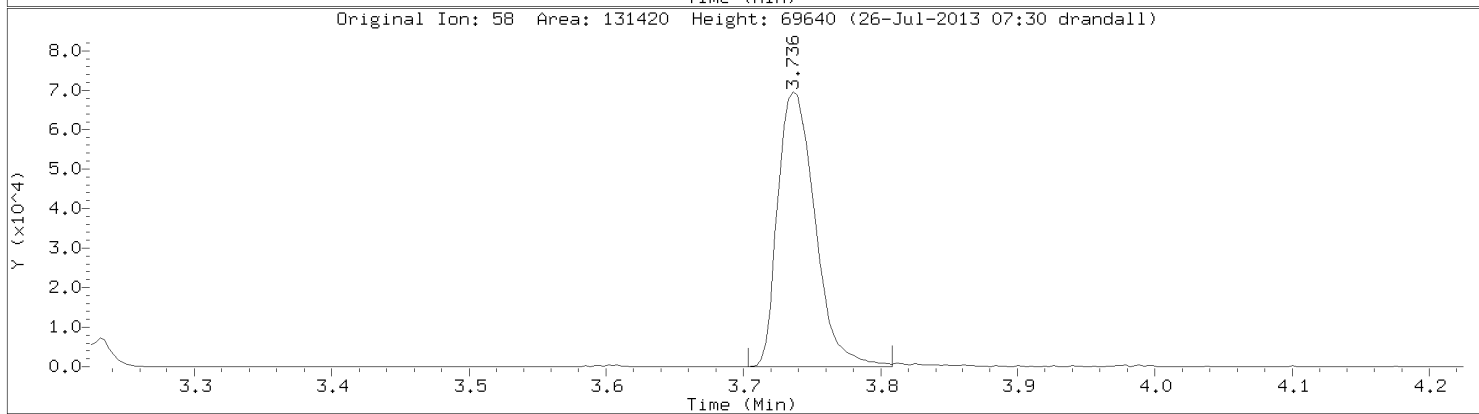
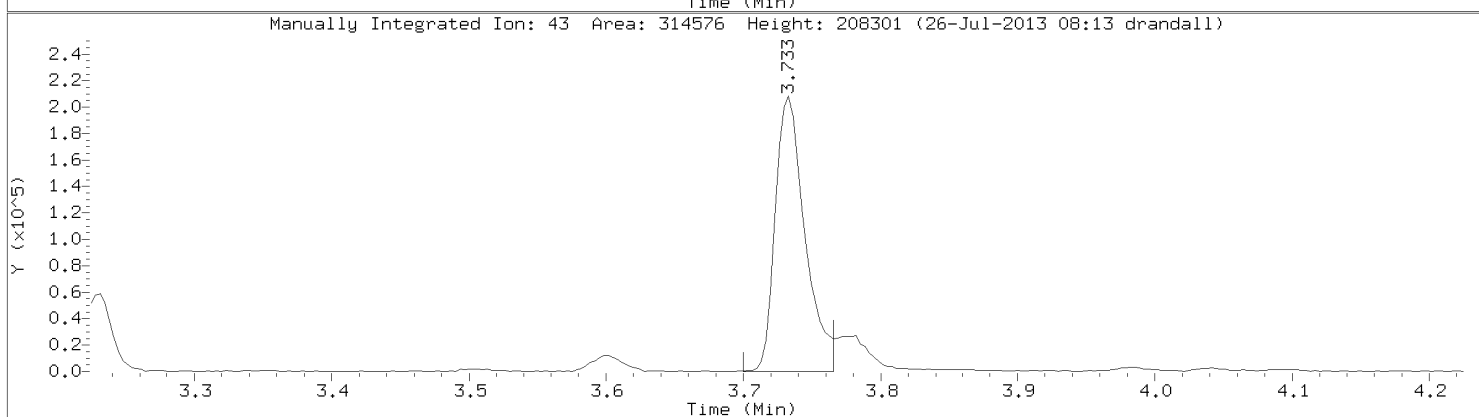
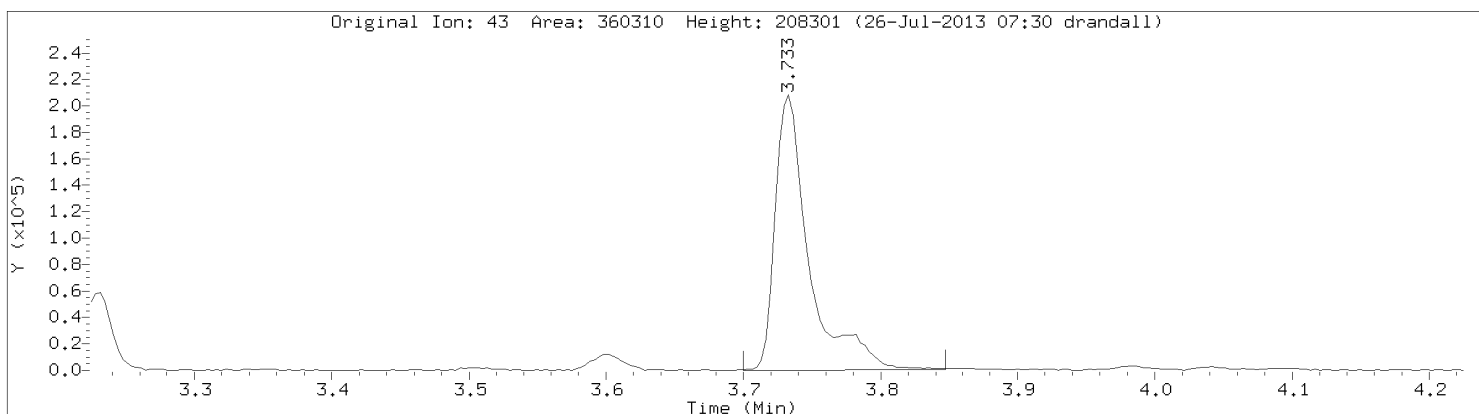
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Injection Date: 25-JUL-2013 23:59
Instrument: 10airD.i
Lab Sample ID: 10236207007

Compound: Acrolein
CAS Number: 107-02-08



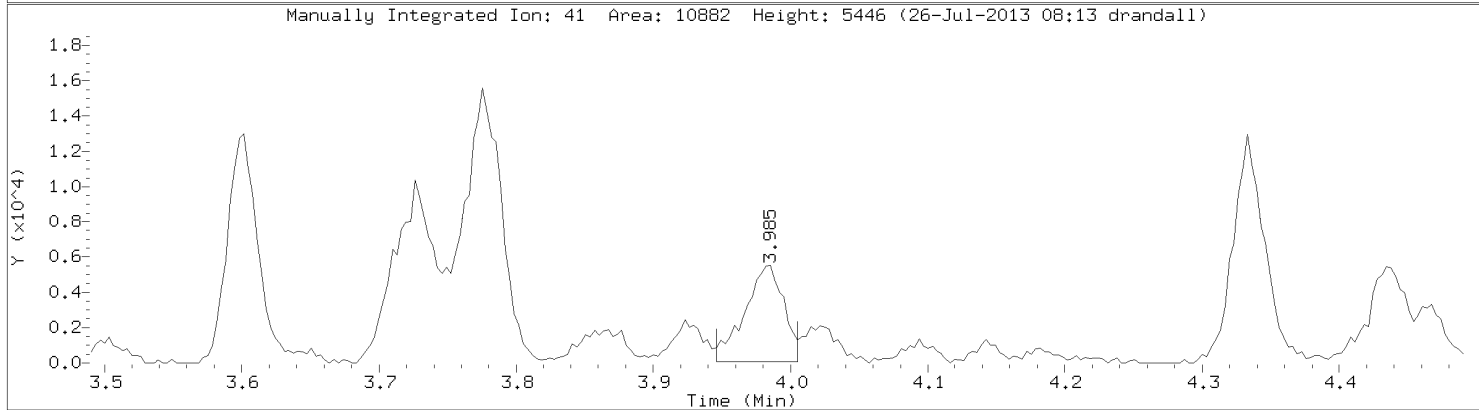
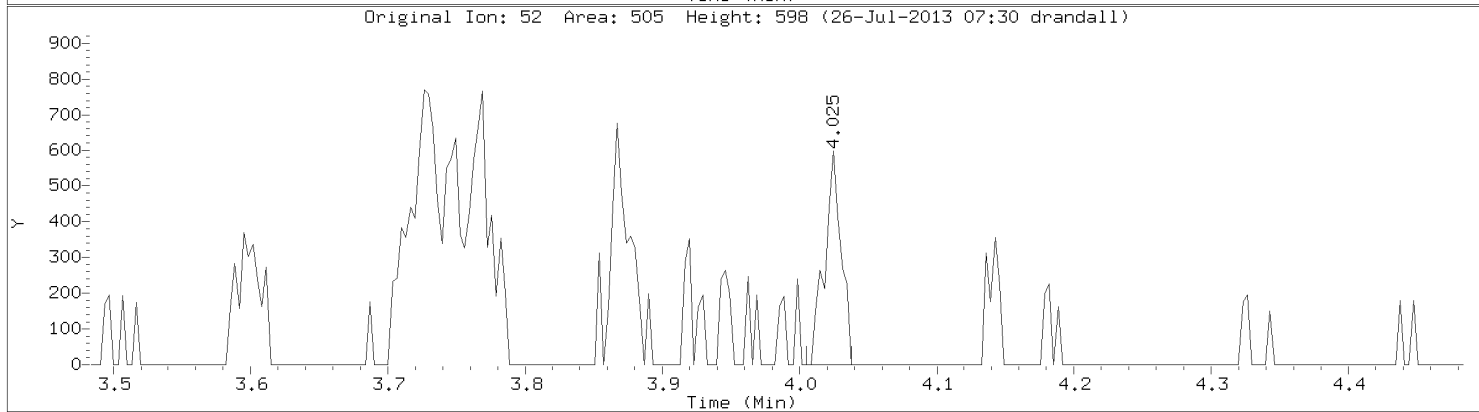
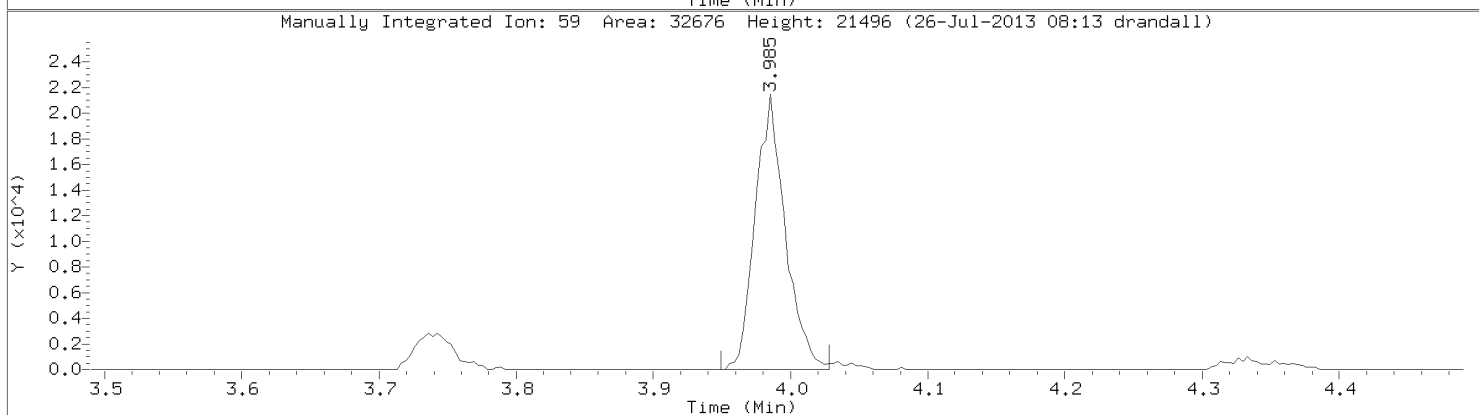
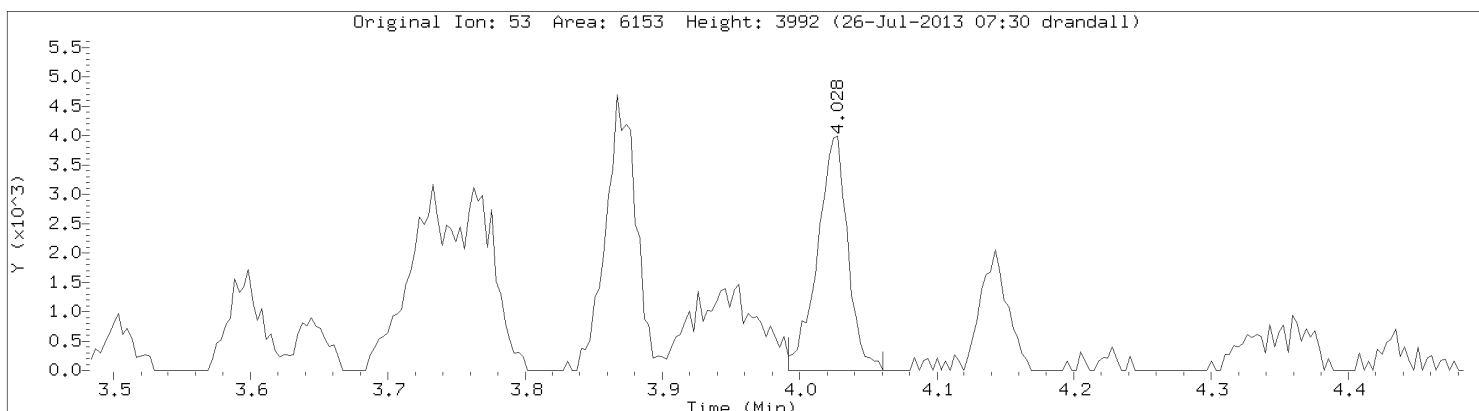
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Injection Date: 25-JUL-2013 23:59
Instrument: 10airD.i
Lab Sample ID: 10236207007

Compound: Acetone
CAS Number: 67-64-1



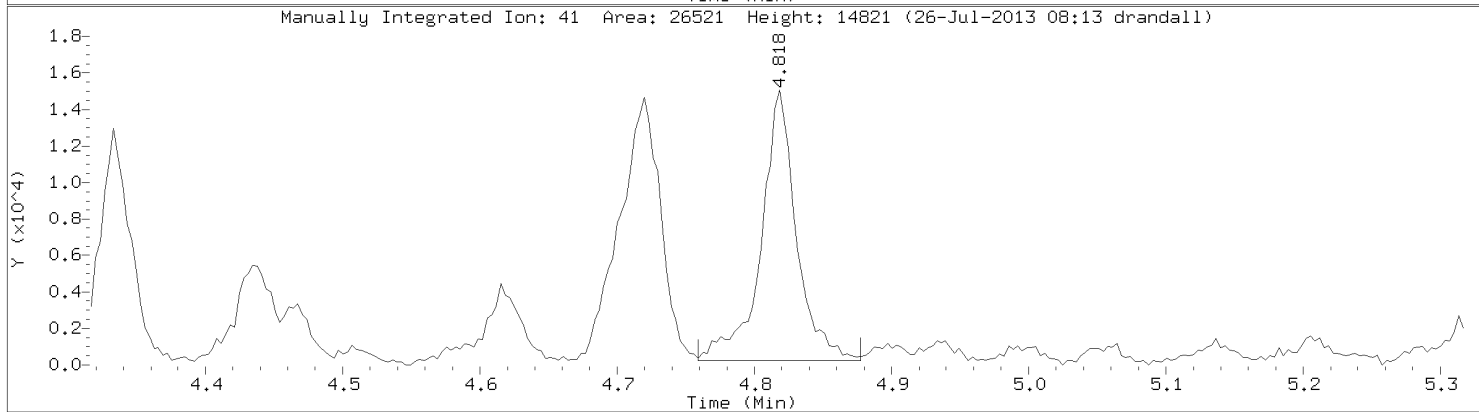
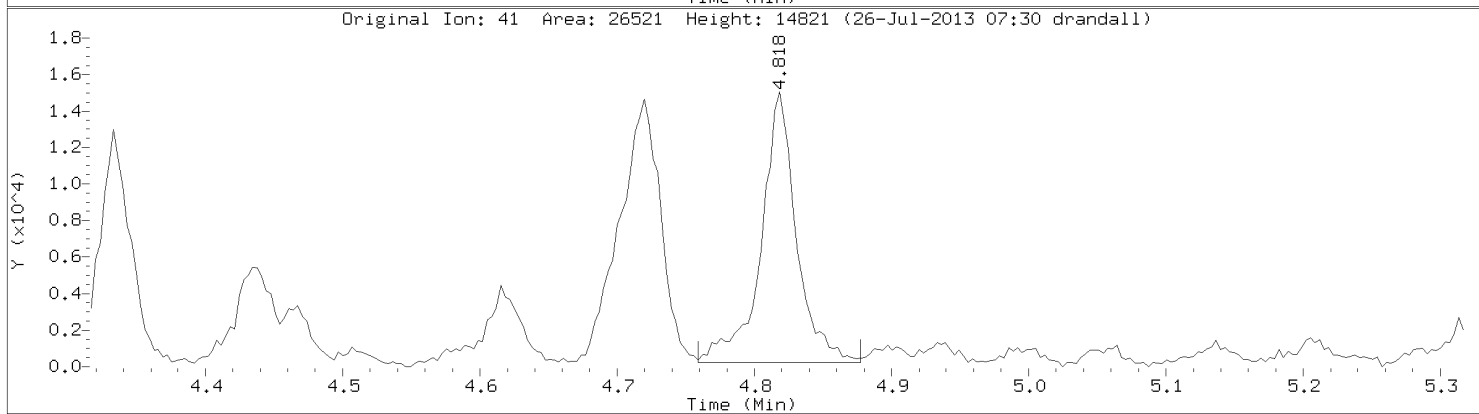
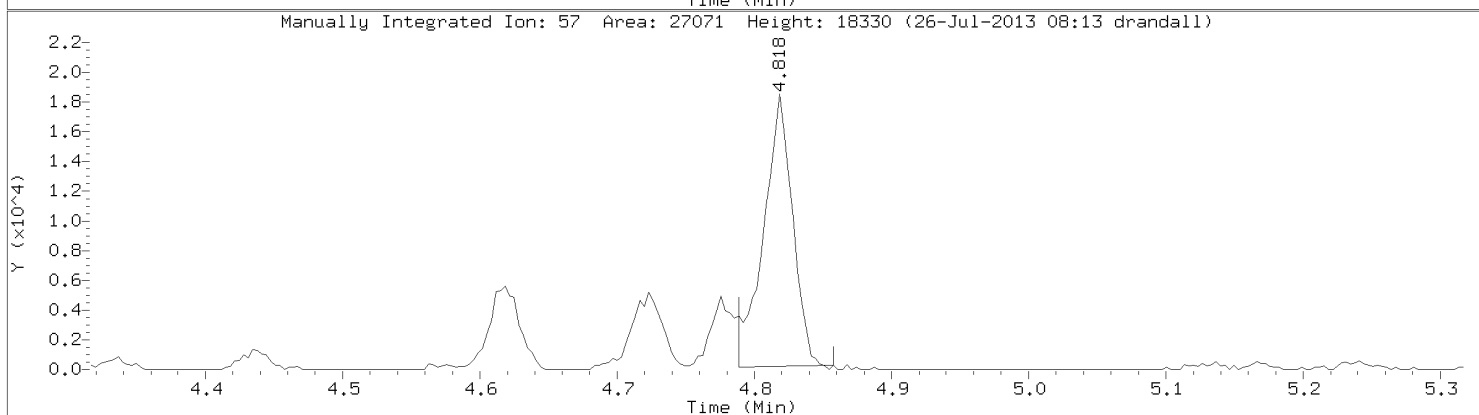
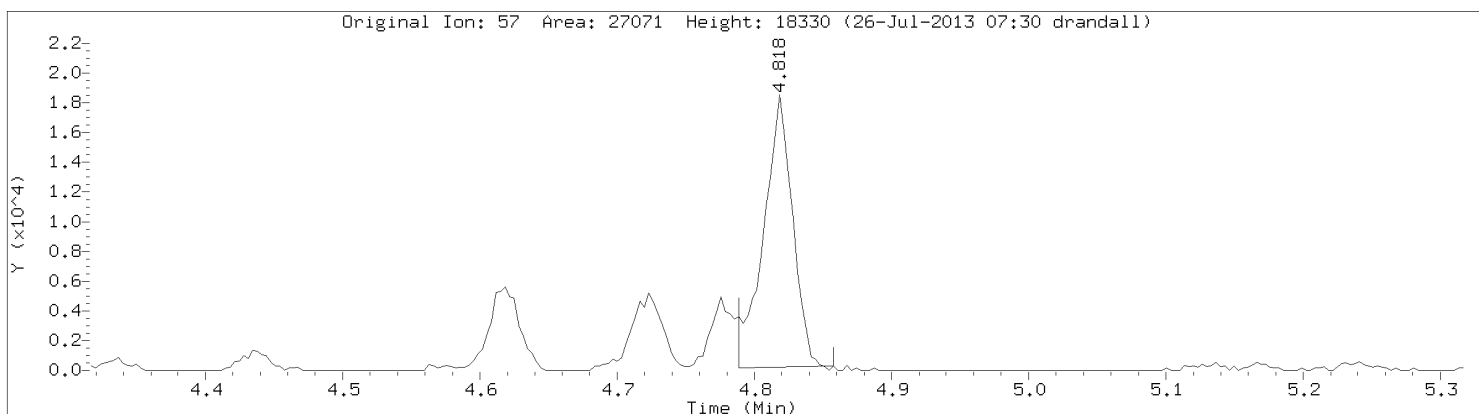
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Injection Date: 25-JUL-2013 23:59
Instrument: 10airD.i
Lab Sample ID: 10236207007

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

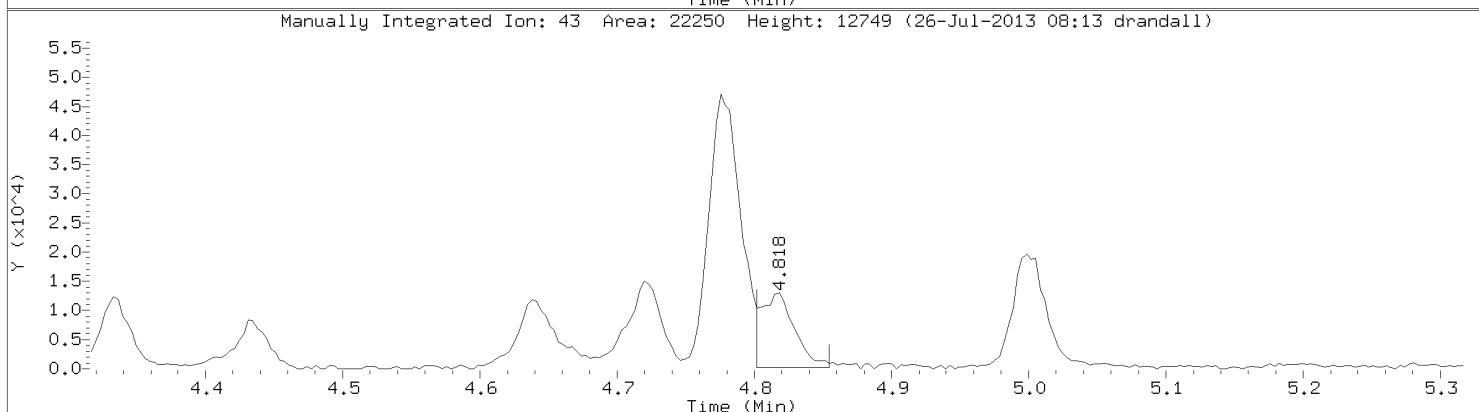
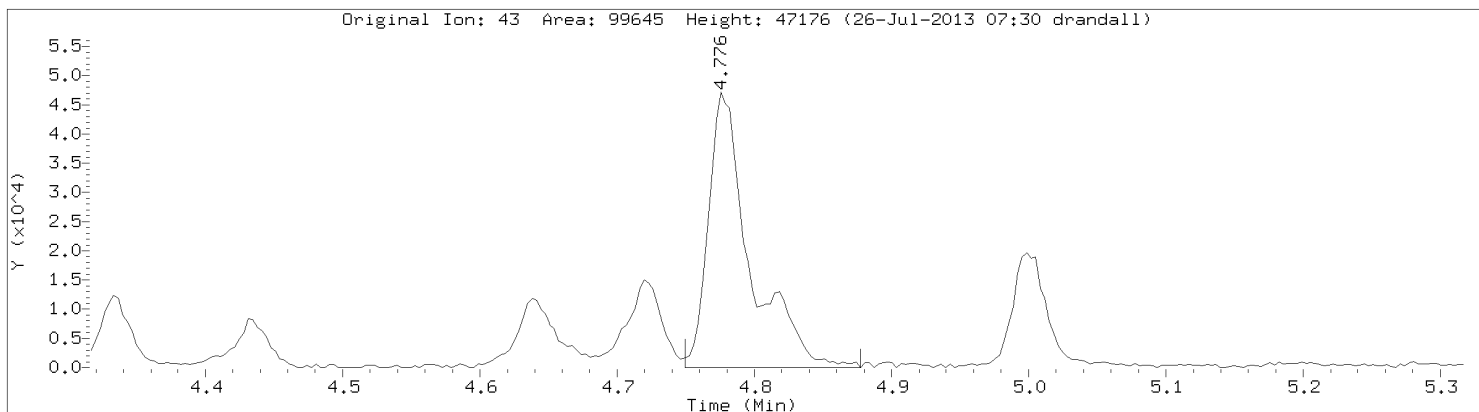


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Injection Date: 25-JUL-2013 23:59
Instrument: 10airD.i
Lab Sample ID: 10236207007

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

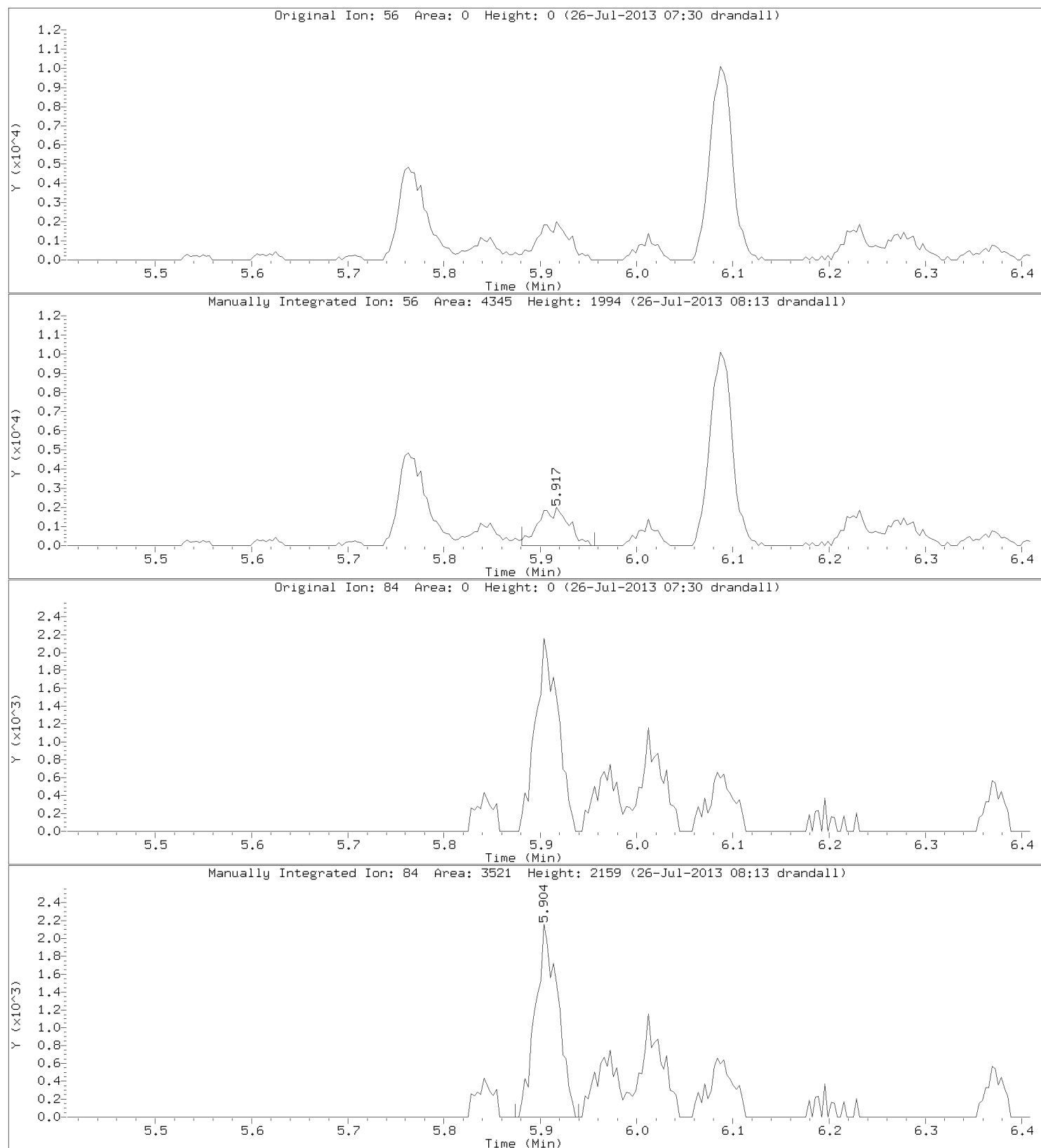


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Instrument: 10airD.i
Lab Sample ID: 10236207007

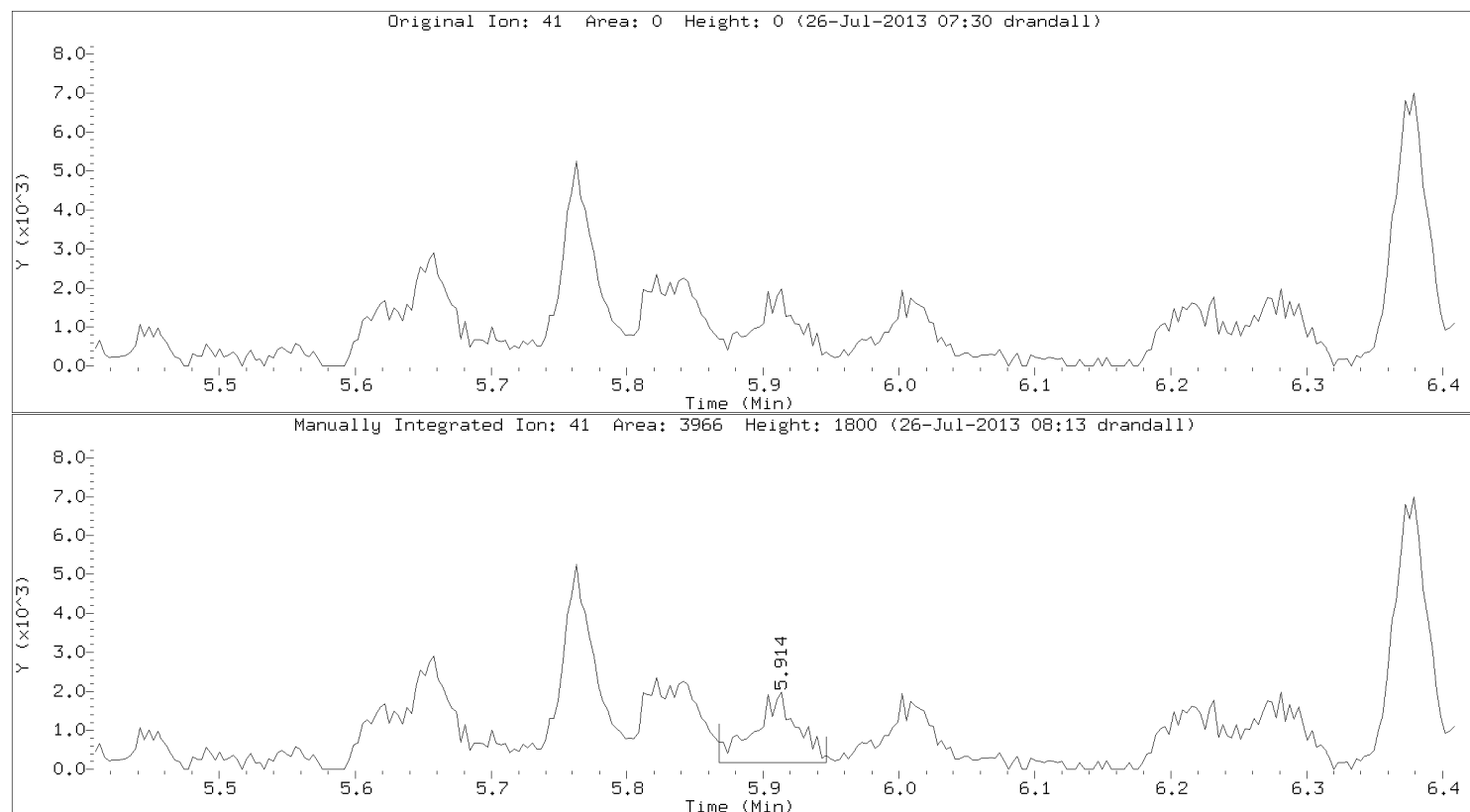


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Injection Date: 25-JUL-2013 23:59
Instrument: 10airD.i
Lab Sample ID: 10236207007

Compound: Cyclohexane
CAS Number: 110-82-7

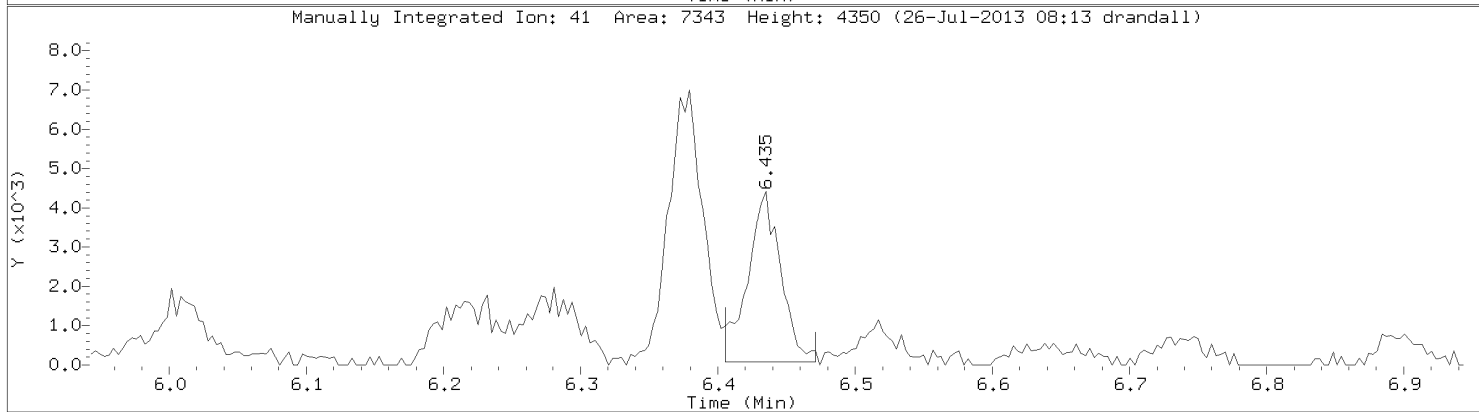
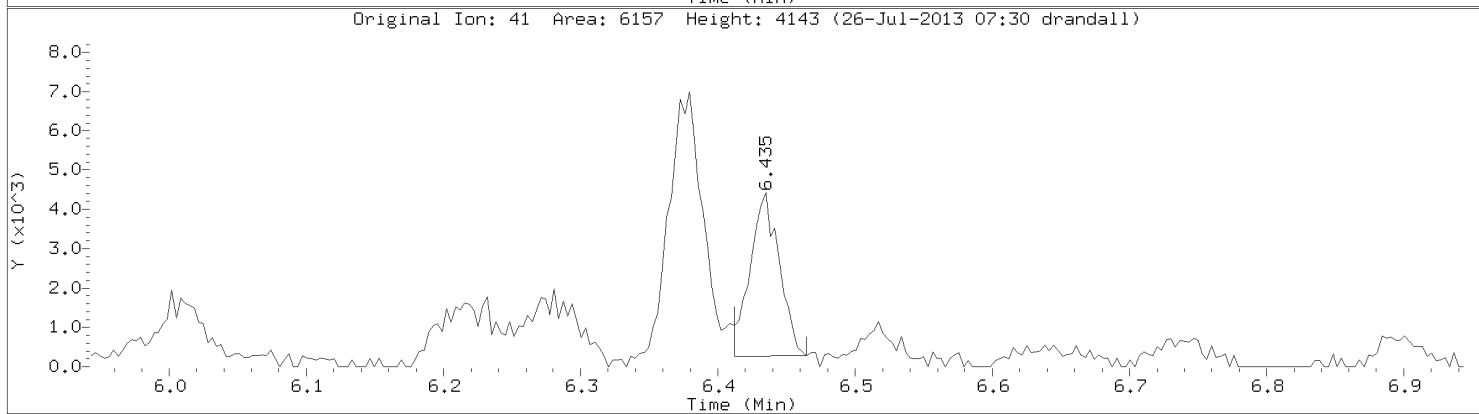
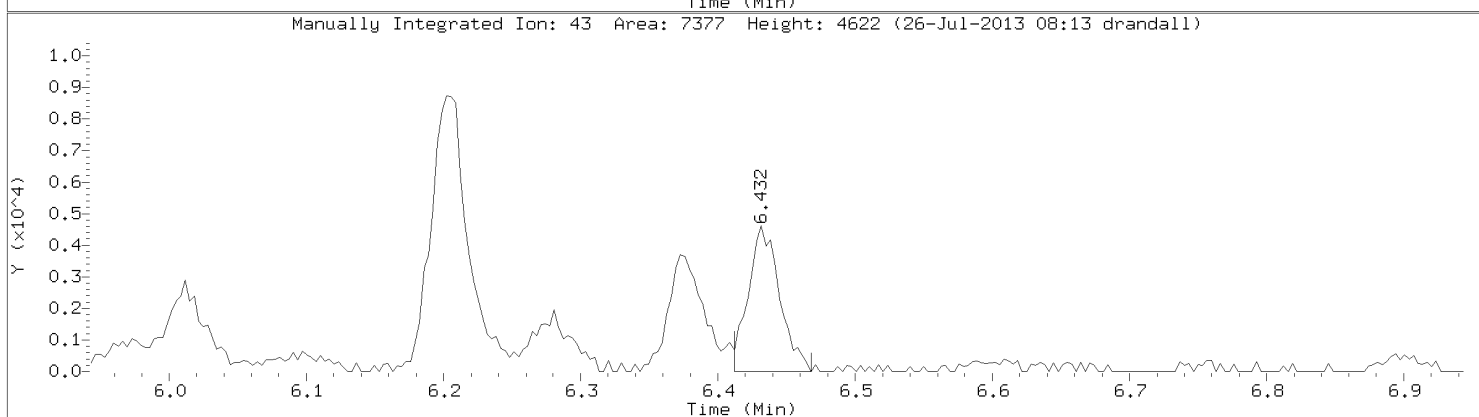
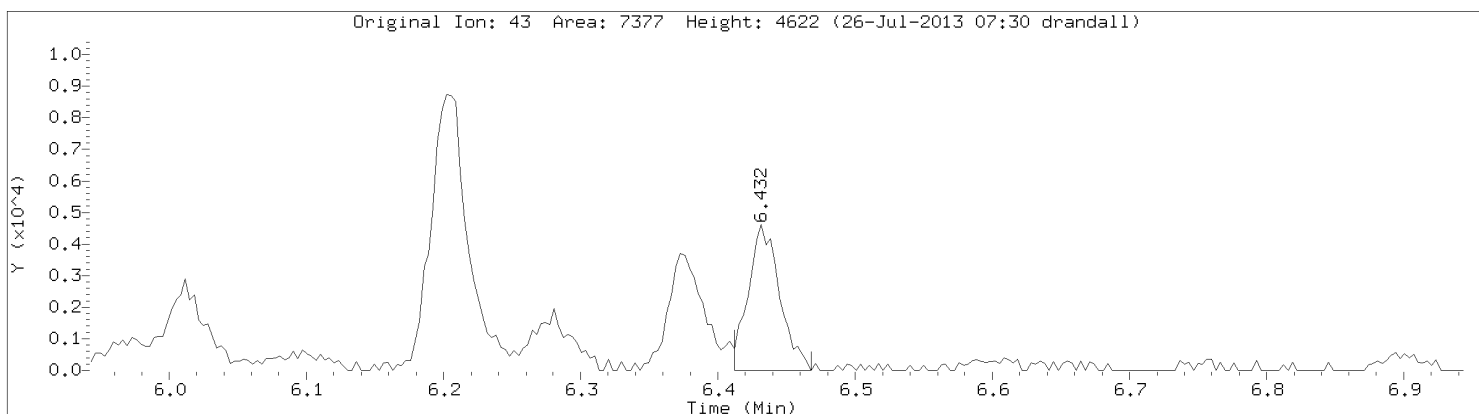


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Injection Date: 25-JUL-2013 23:59
Instrument: 10airD.i
Lab Sample ID: 10236207007



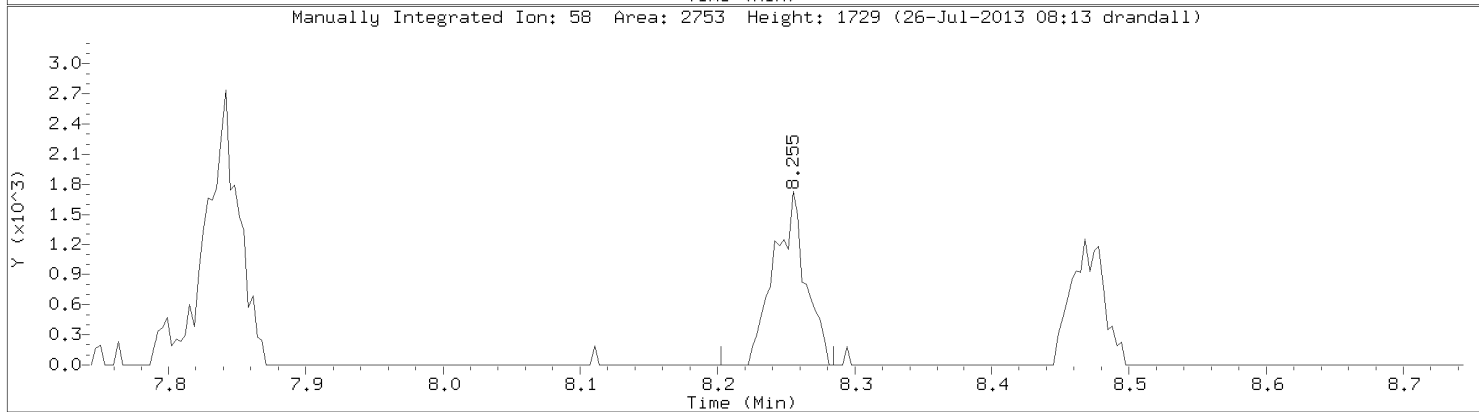
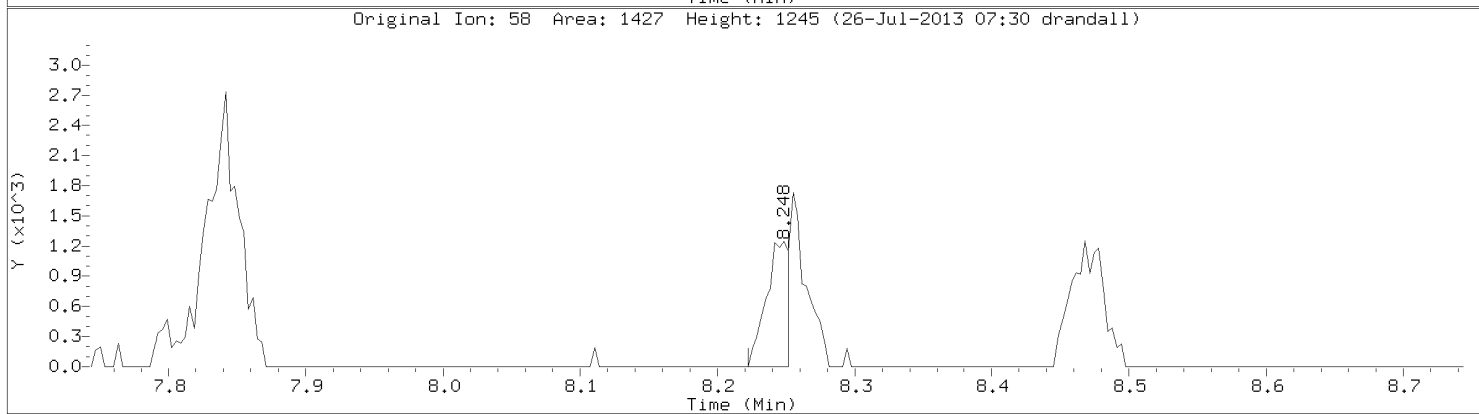
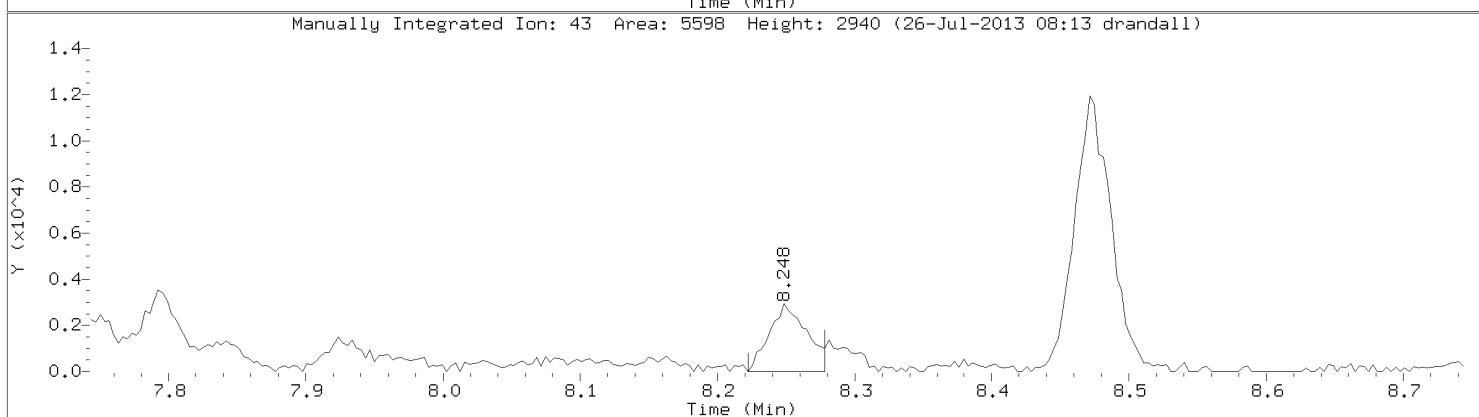
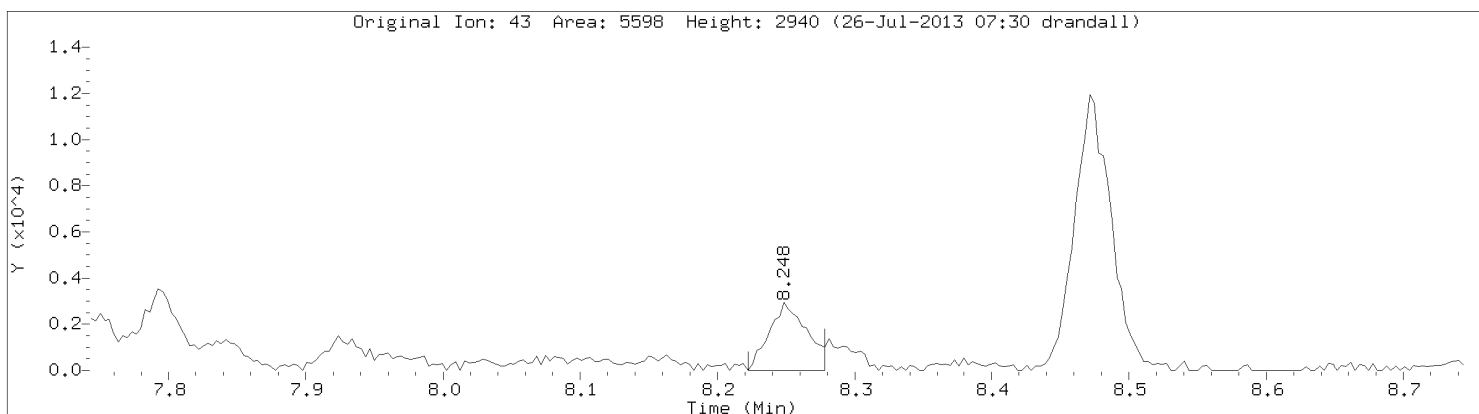
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Injection Date: 25-JUL-2013 23:59
Instrument: 10airD.i
Lab Sample ID: 10236207007

Compound: Heptane
CAS Number: 142-82-5



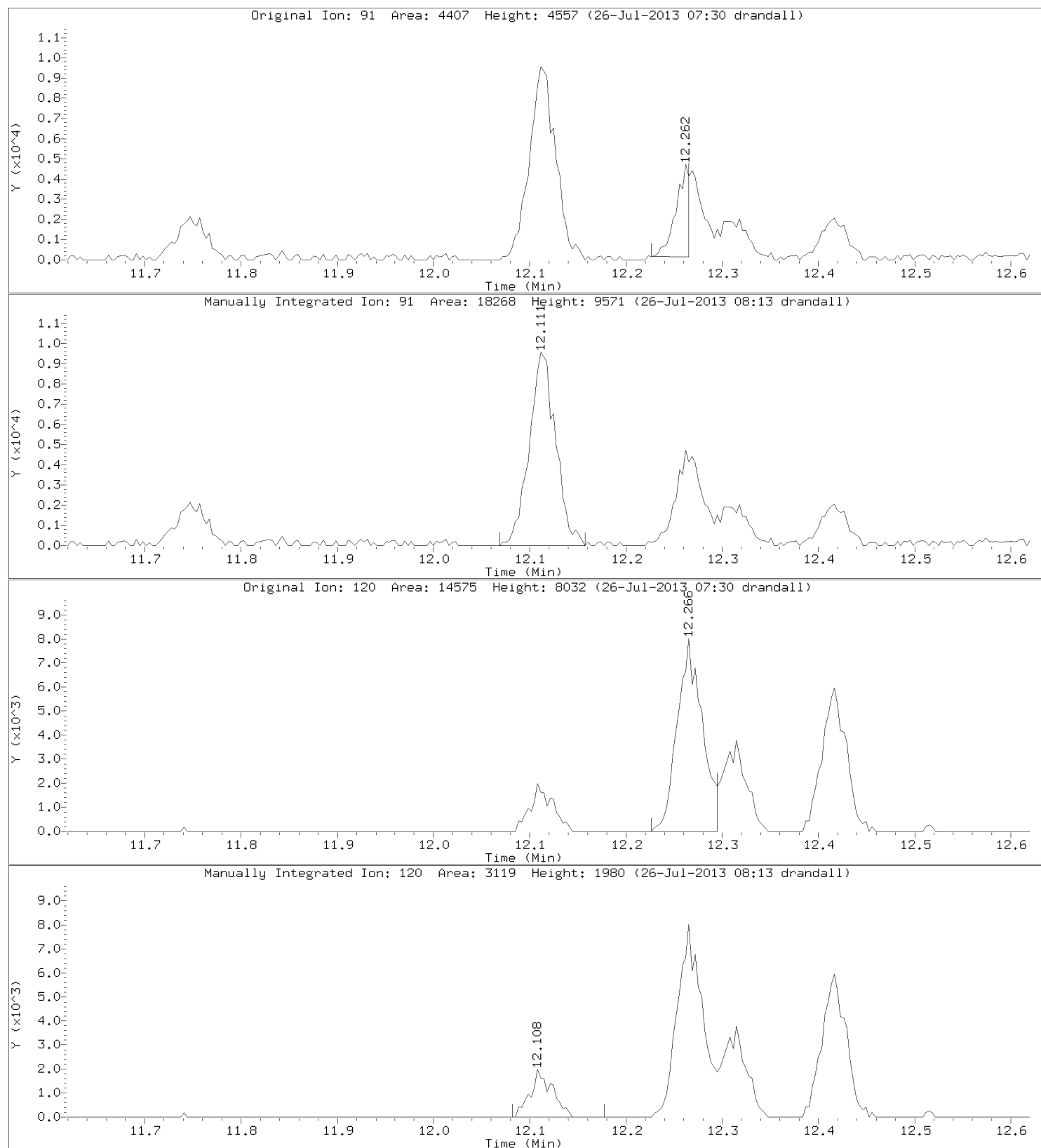
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Injection Date: 25-JUL-2013 23:59
Instrument: 10airD.i
Lab Sample ID: 10236207007

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



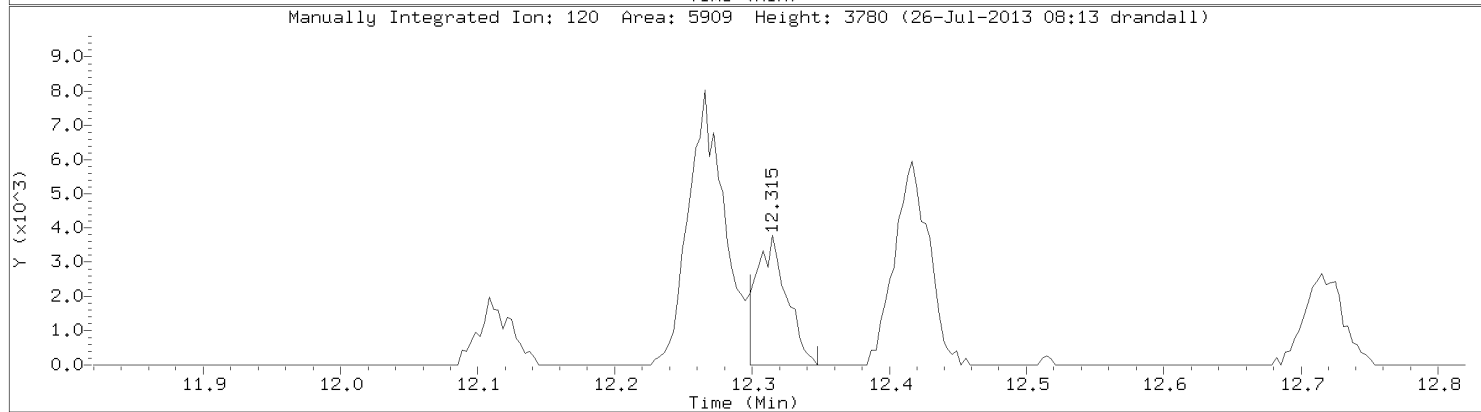
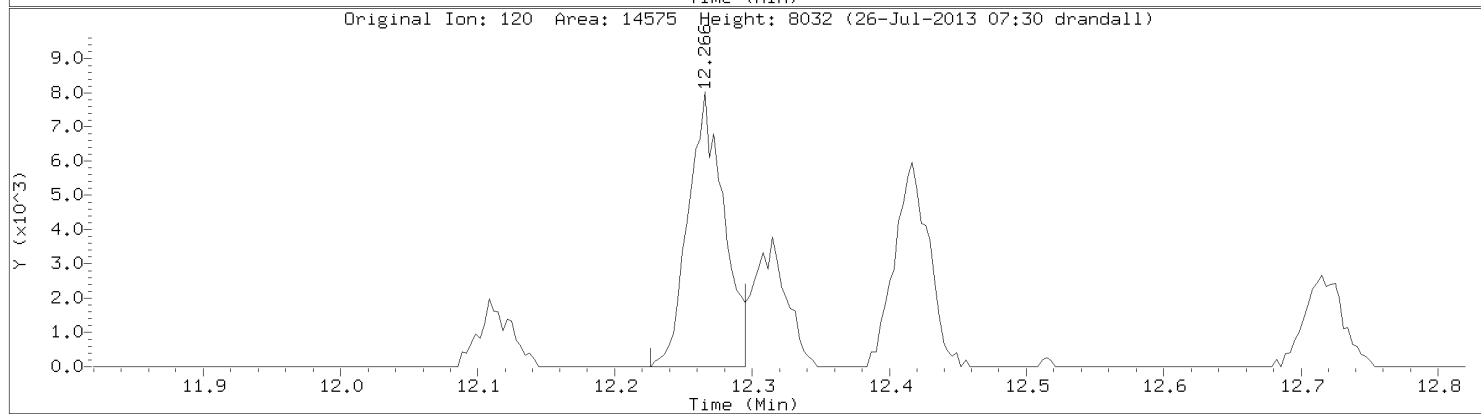
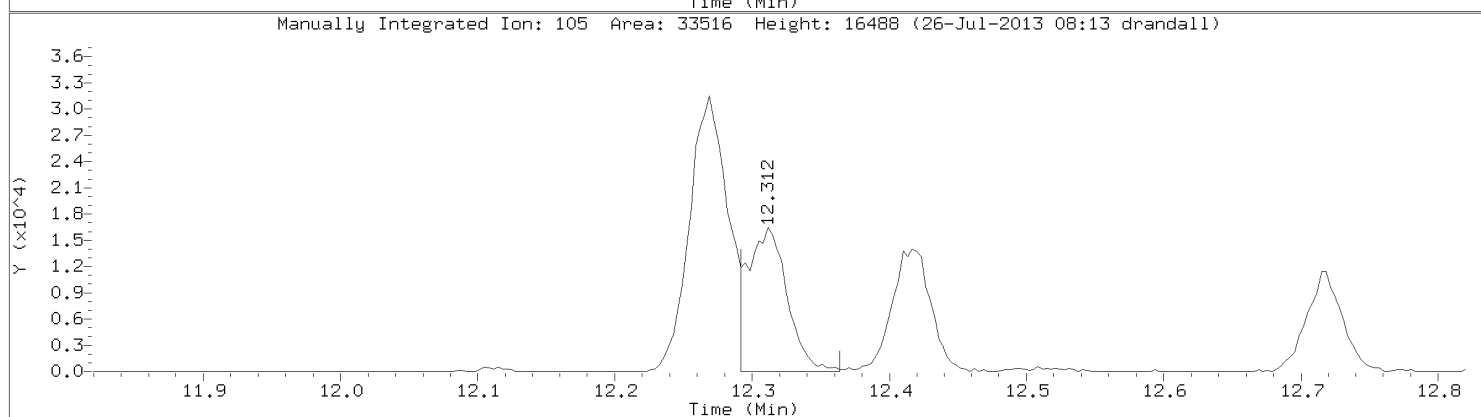
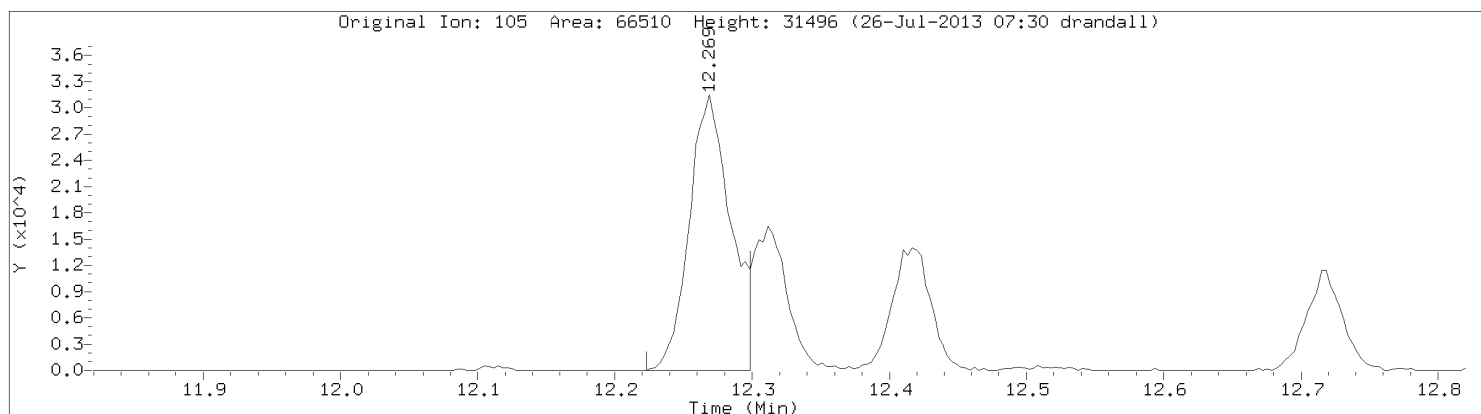
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Injection Date: 25-JUL-2013 23:59
Instrument: 10airD.i
Lab Sample ID: 10236207007

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

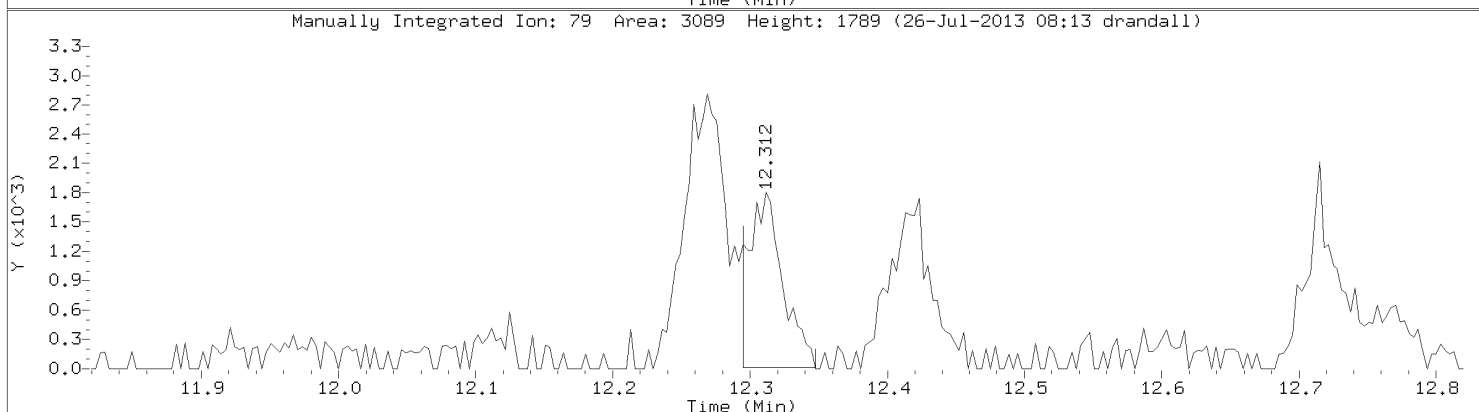
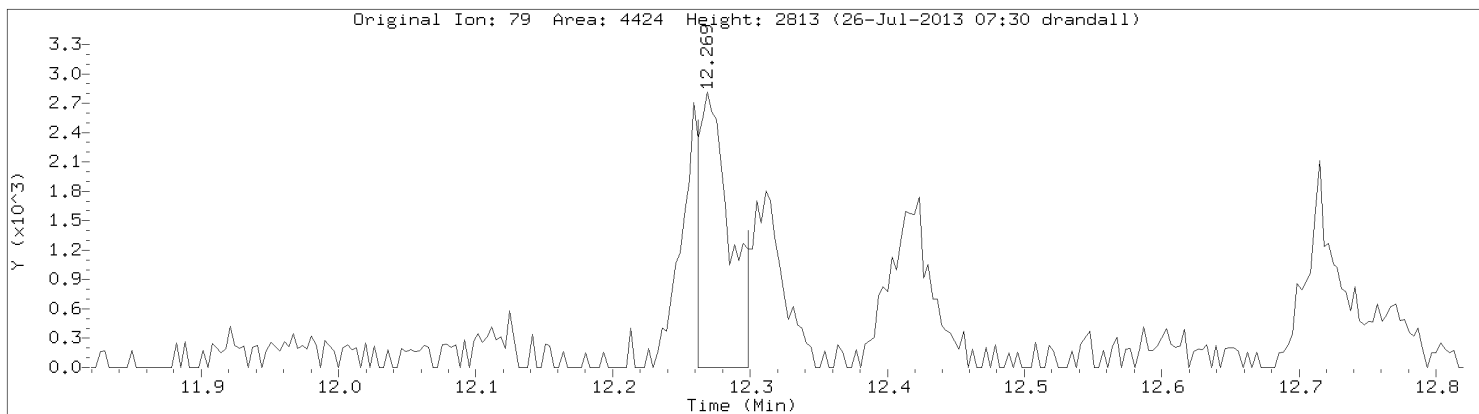


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Injection Date: 25-JUL-2013 23:59
Instrument: 10airD.i
Lab Sample ID: 10236207007

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



Data File: \\192.168.10.12\chem\10airD.i\072513.b\20623.d
Injection Date: 25-JUL-2013 23:59
Instrument: 10airD.i
Lab Sample ID: 10236207007



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072513.b\20626.d
 Lab Smp Id: 10236207008
 Inj Date : 26-JUL-2013 01:31
 Operator : DR1
 Smp Info :
 Misc Info : 17870
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
 Meth Date : 25-Jul-2013 16:57 creindl Quant Type: ISTD
 Cal Date : 24-JUL-2013 16:39 Cal File: 20509.d
 Als bottle: 26
 Dil Factor: 1.49000
 Integrator: HP RTE
 Target Version: 4.14

Inst ID: 10airD.i

Compound Sublist: all.sub

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.490	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
1 Propylene	41		2.972	2.982	(0.488)	258710	28.0473	41.8
2 Dichlorodifluoromethane	85		2.998	3.008	(0.493)	20033	0.22580	0.336
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		3.500	3.494	(0.575)	21713	2.05428	3.06 (M)
10 Vinyl Bromide	106		Compound Not Detected.					
11 Acrolein	56		Compound Not Detected.					
12 Trichlorofluoromethane	101		3.700	3.694	(0.608)	12304	0.12749	0.190 (M)
13 Acetone	43		3.729	3.726	(0.613)	487659	10.0805	15.0 (M)
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		4.096	4.094	(0.673)	6764	0.24678	0.368
20 Allyl Chloride	76		Compound Not Detected.					
21 Carbon Disulfide	76		4.228	4.224	(0.695)	42111	0.52797	0.787
22 trans-1,2-dichloroethene	96		Compound Not Detected.					
23 Methyl Tert Butyl Ether	73		Compound Not Detected.					
24 Vinyl Acetate	43		Compound Not Detected.					

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppbv)	FINAL (ppbv)
25 1,1-Dichloroethane	63		Compound Not Detected.						
\$ 26 Hexane-d14(S)	66		4.700	4.700	(0.772)	306769	8.70571	8.70	
27 Methyl Ethyl Ketone	72		4.775	4.779	(0.785)	37986	3.39158	5.05	
28 n-Hexane	57		4.818	4.818	(0.792)	40693	1.27034	1.89 (M)	
29 cis-1,2-Dichloroethene	96		Compound Not Detected.						
30 Ethyl Acetate	43		4.998	4.999	(0.821)	23308	0.91164	1.36 (QM)	
31 Chloroform	83		Compound Not Detected.						
32 Tetrahydrofuran	42		Compound Not Detected.						
33 1,1,1-Trichloroethane	97		Compound Not Detected.						
34 1,2-Dichloroethane	62		Compound Not Detected.						
35 Benzene	78		5.880	5.887	(0.966)	75786	1.50339	2.24	
36 Carbon tetrachloride	117		Compound Not Detected.						
37 Cyclohexane	56		5.910	5.910	(0.971)	8117	0.77446	1.15 (QM)	
* 38 1,4-Difluorobenzene	114		6.087	6.094	(1.000)	729719	10.0000		
39 2,2,4-Trimethylpentane	57		Compound Not Detected.						
40 Heptane	43		6.431	6.442	(1.057)	11983	0.90413	1.35	
41 1,2-Dichloropropane	63		Compound Not Detected.						
42 Trichloroethene	130		Compound Not Detected.						
43 1,4-Dioxane	88		Compound Not Detected.						
44 Bromodichloromethane	83		Compound Not Detected.						
45 Methyl Isobutyl Ketone	43		7.231	7.229	(1.188)	4067	0.50313	0.750 (M)	
46 cis-1,3-Dichloropropene	75		Compound Not Detected.						
47 trans-1,3-Dichloropropene	75		Compound Not Detected.						
\$ 48 Toluene-d8 (S)	98		7.841	7.848	(1.288)	531974	10.4384	10.4	
49 Toluene	91		7.933	7.940	(1.303)	205647	2.72314	4.06	
50 1,1,2-Trichloroethane	97		Compound Not Detected.						
51 Methyl Butyl Ketone	43		8.251	8.244	(0.852)	6576	0.50852	0.758 (M)	
52 Dibromochloromethane	129		Compound Not Detected.						
53 1,2-Dibromoethane	107		Compound Not Detected.						
54 Tetrachloroethene	166		8.907	8.918	(0.920)	5194	0.49433	0.736	
* 55 Chlorobenzene - d5	117		9.684	9.691	(1.000)	282753	10.0000		
56 Chlorobenzene	112		Compound Not Detected.						
57 Ethyl Benzene	91		10.029	10.039	(1.036)	65458	0.90138	1.34	
58 m&p-Xylene	91		10.202	10.213	(1.053)	203951	2.58870	3.86	
59 Bromoform	173		Compound Not Detected.						
60 Styrene	104		10.701	10.708	(1.105)	8831	0.62029	0.924	
61 o-Xylene	91		10.773	10.783	(1.112)	65905	0.91798	1.37	
62 1,1,2,2-Tetrachloroethane	83		Compound Not Detected.						
63 Isopropylbenzene	105		Compound Not Detected.						
64 N-Propylbenzene	91		12.114	12.121	(1.251)	22448	0.46316	0.690 (M)	
65 4-Ethyltoluene	105		12.308	12.321	(1.271)	34764	0.65506	0.976 (M)	
66 1,3,5-Trimethylbenzene	105		12.419	12.426	(1.282)	28220	0.59942	0.893	
67 1,2,4-Trimethylbenzene	105		13.010	13.020	(1.343)	135567	1.86477	2.78	
68 1,3-Dichlorobenzene	146		Compound Not Detected.						
69 Sec- Butylbenzene	105		Compound Not Detected.						
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.449	13.459	(1.389)	105912	9.27978	9.28	
71 Benzyl Chloride	91		Compound Not Detected.						
72 1,4-Dichlorobenzene	146		Compound Not Detected.						
73 1,2-Dichlorobenzene	146		Compound Not Detected.						
74 N-Butylbenzene	91		Compound Not Detected.						
75 1,2,4-Trichlorobenzene	180		Compound Not Detected.						
76 Naphthalene	128		16.856	16.860	(1.741)	58924	1.70388	2.54 (M)	
77 Hexachlorobutadiene	225		Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20626.d
Report Date: 26-Jul-2013 08:24

QC Flag Legend

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

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20626.d
Report Date: 26-Jul-2013 08:24

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 20626.d
Lab Smp Id: 10236207008
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
Misc Info: 17870

Calibration Date: 25-JUL-2013
Calibration Time: 13:08

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	729719	25.86
55 Chlorobenzene - d	221404	132842	309966	282753	27.71

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	-0.05
55 Chlorobenzene - d	9.69	9.36	10.02	9.68	-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\072513.b\20626.D

Date : 26-JUL-2013 01:31

Client ID:

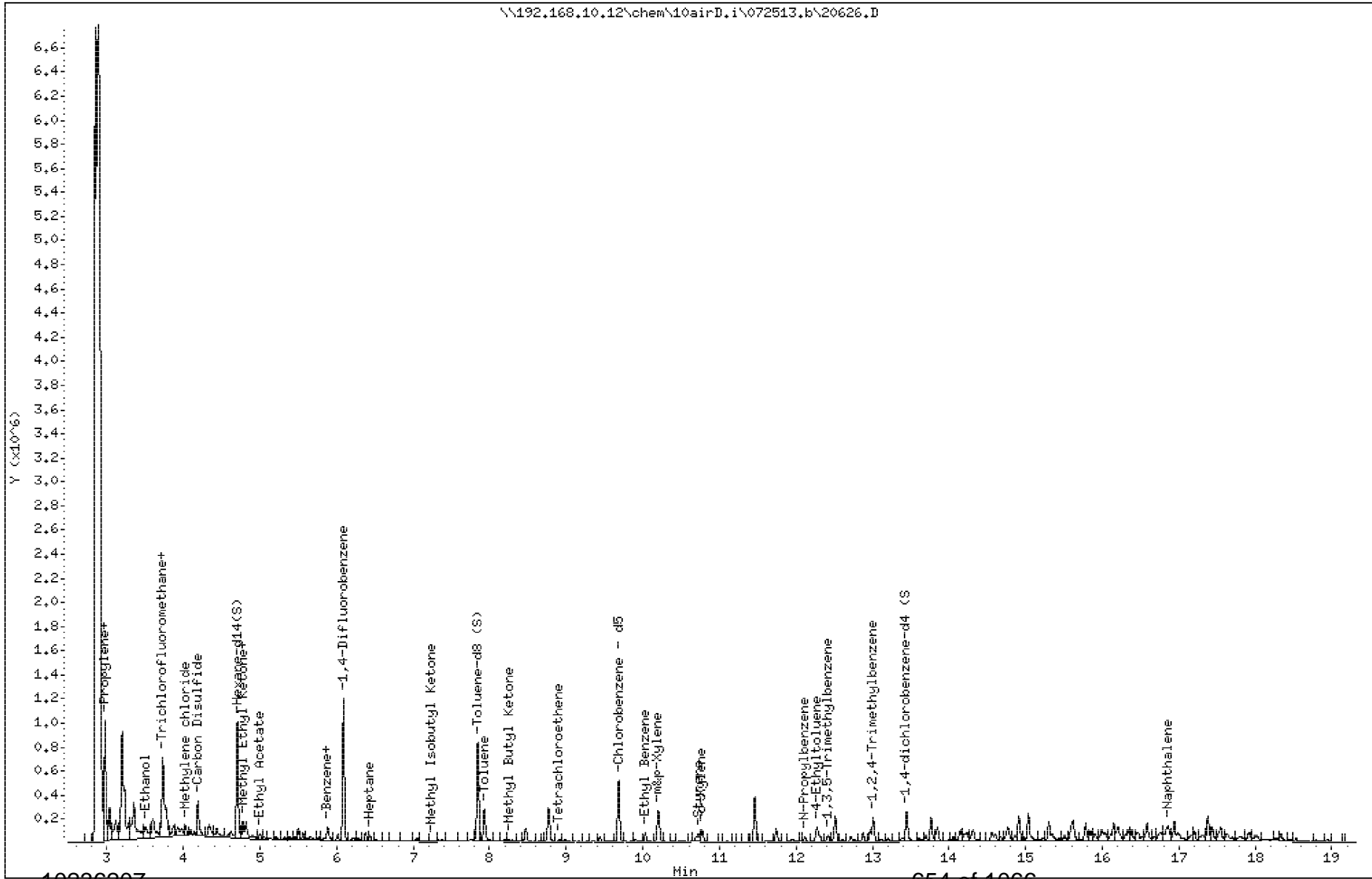
Instrument: 10airD.i

Sample Info:

Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20626.D

Date : 26-JUL-2013 01:31

Client ID:

Instrument: 10airD.i

Sample Info:

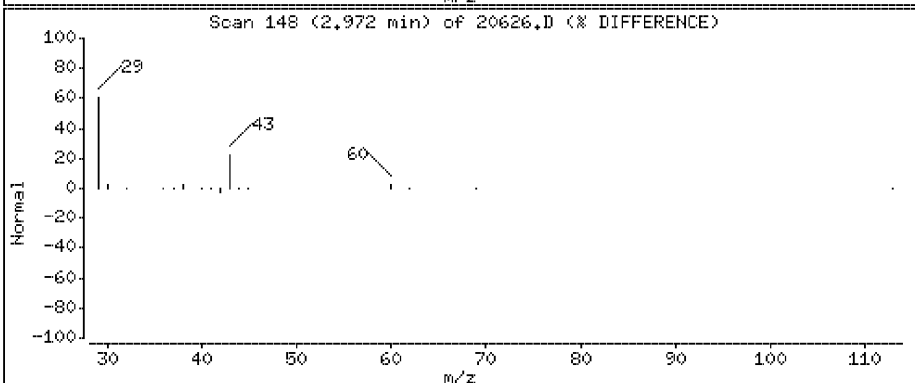
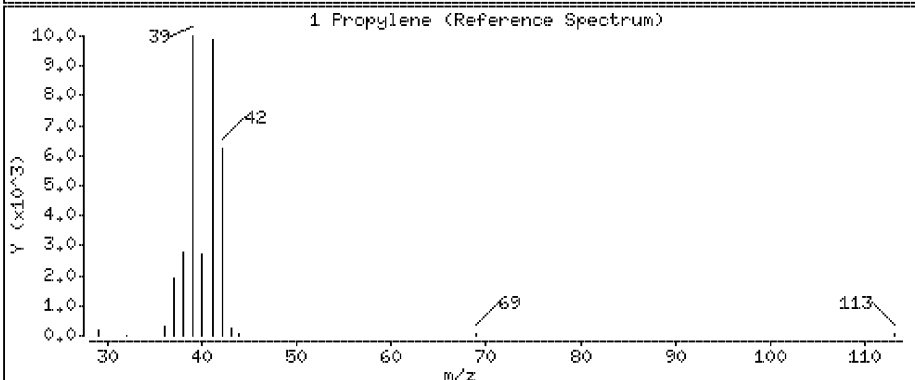
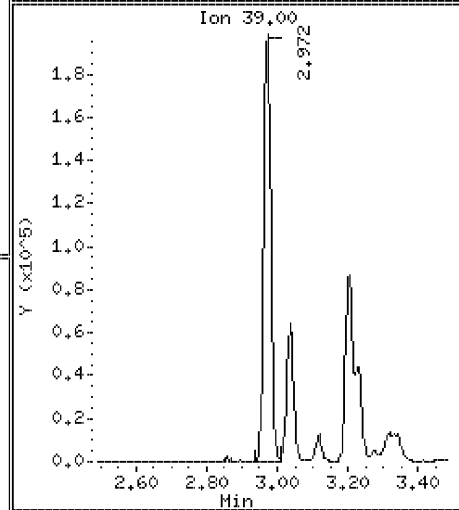
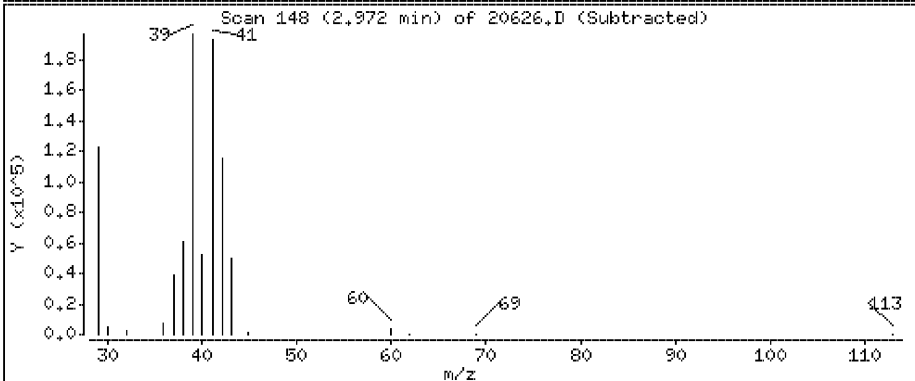
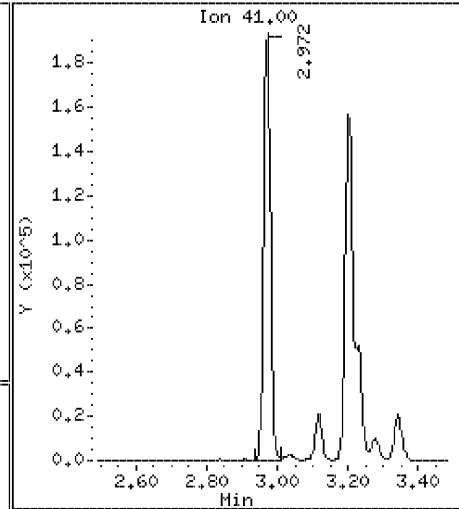
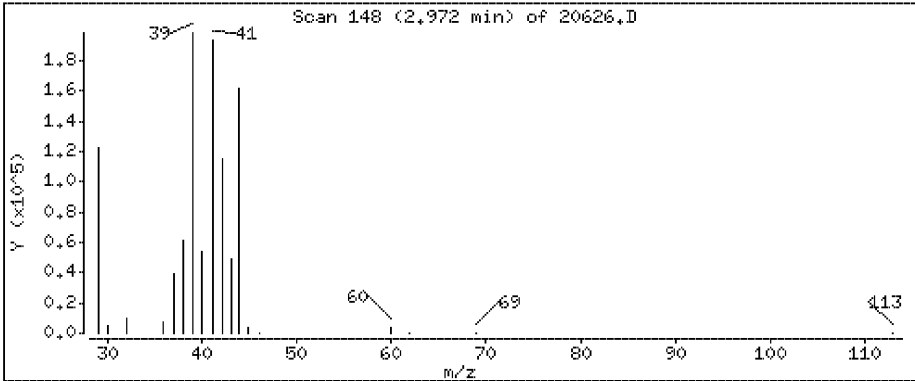
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

1 Propylene

Concentration: 41.8 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20626.D

Date : 26-JUL-2013 01:31

Client ID:

Instrument: 10airD.i

Sample Info:

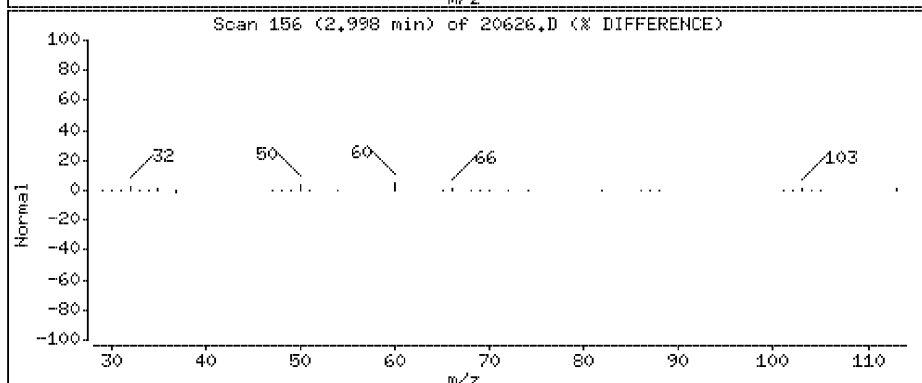
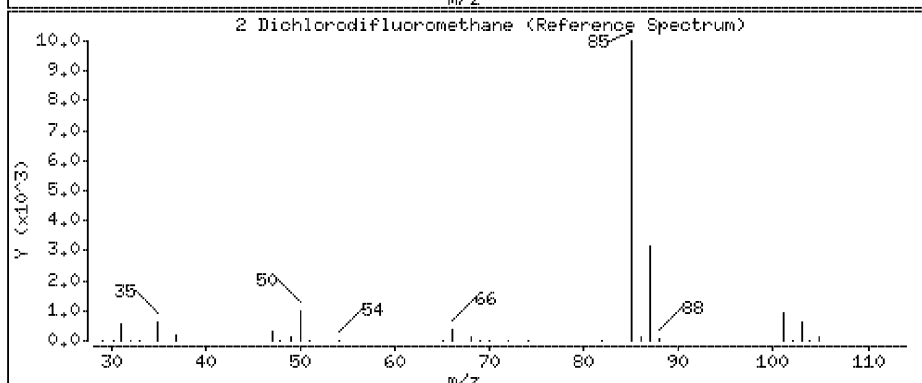
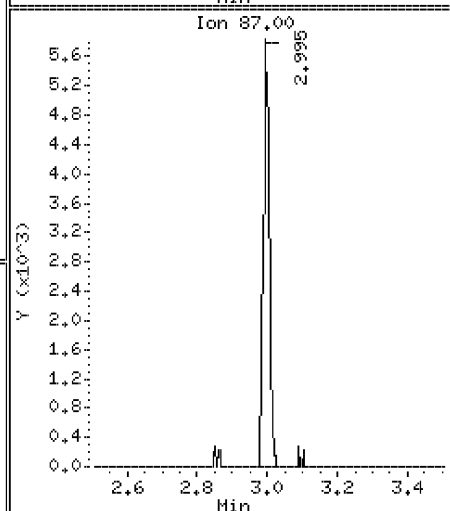
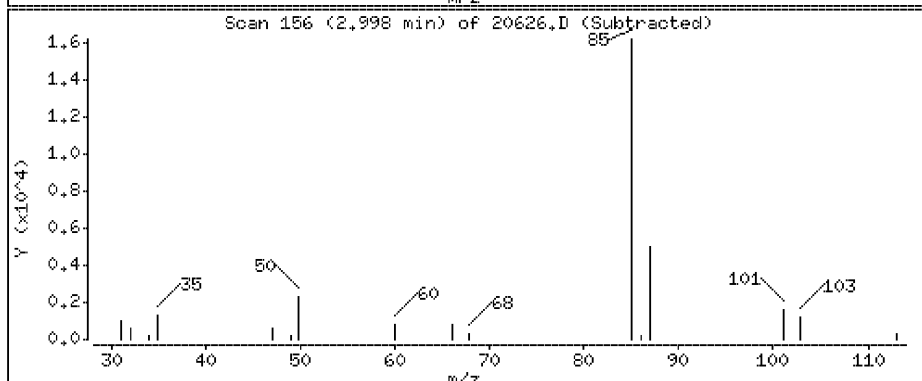
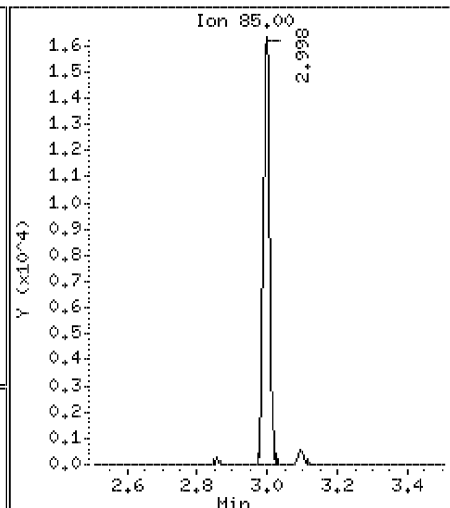
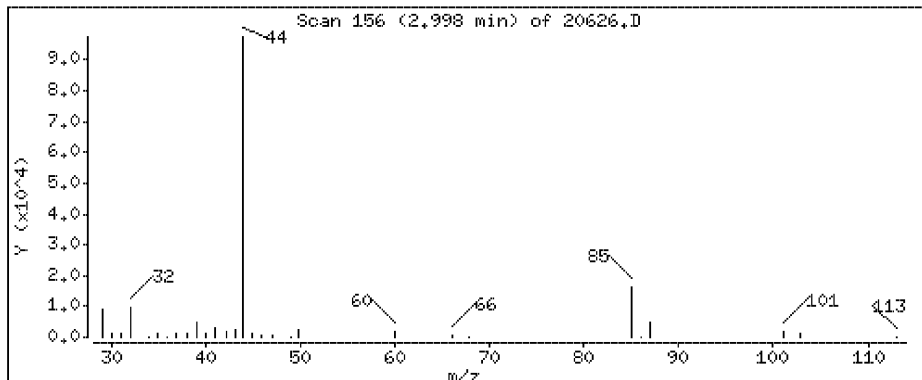
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

2 Dichlorodifluoromethane

Concentration: 0.336 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20626.D

Date : 26-JUL-2013 01:31

Client ID:

Instrument: 10airD.i

Sample Info:

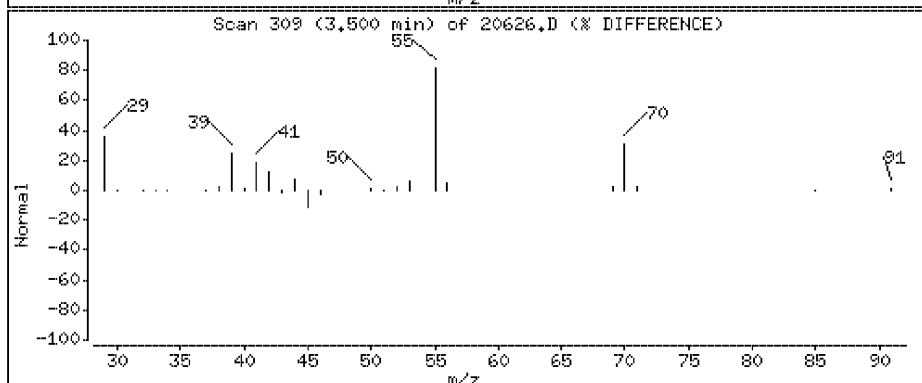
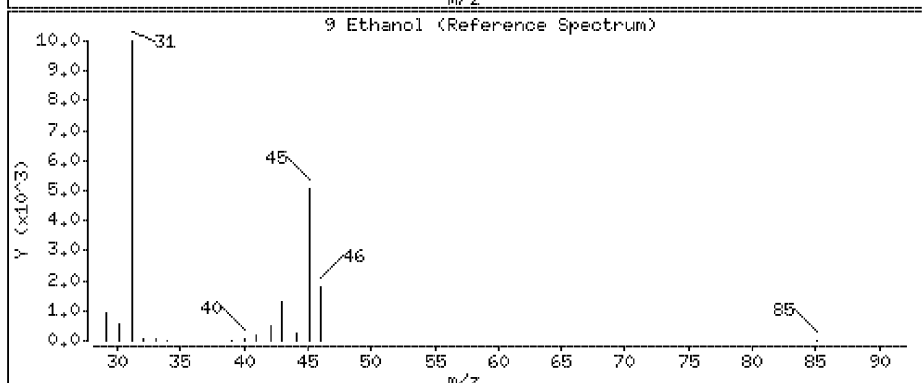
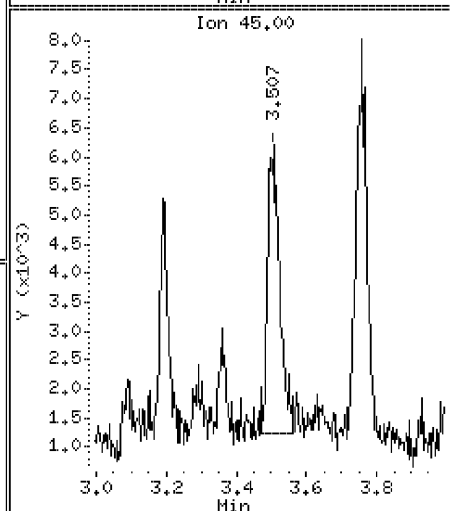
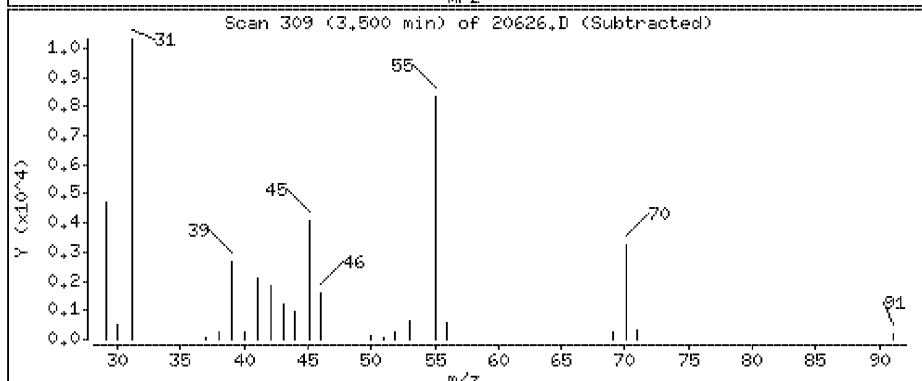
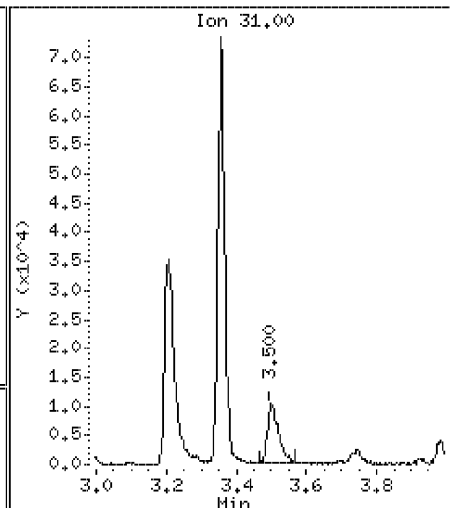
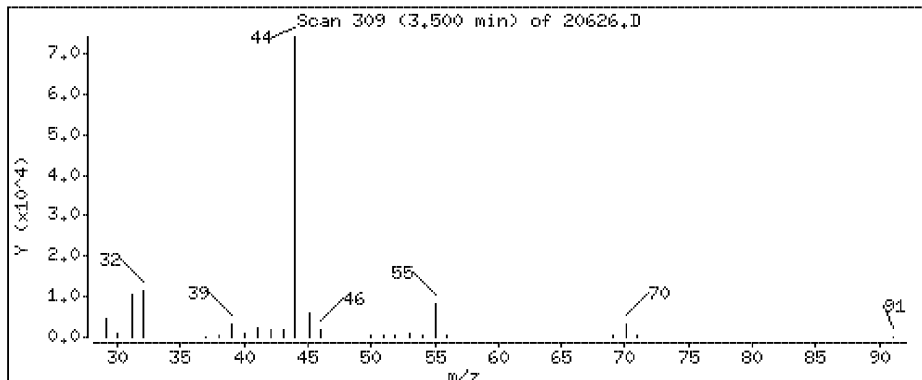
Operator: DR1

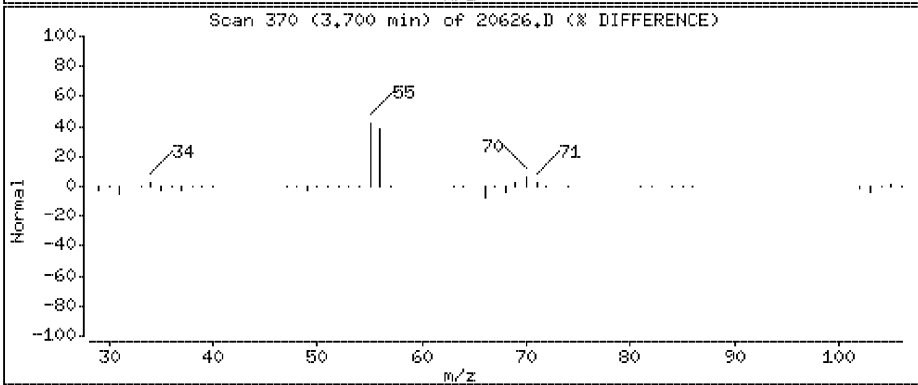
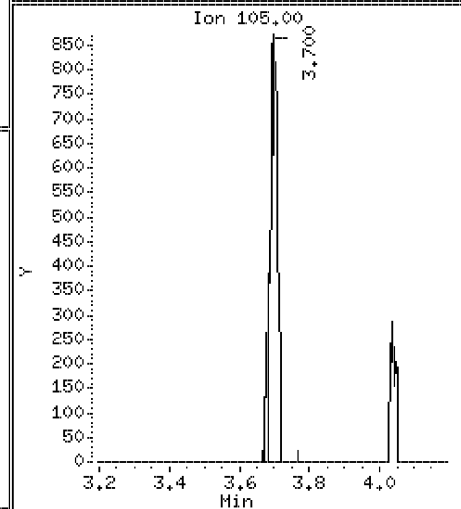
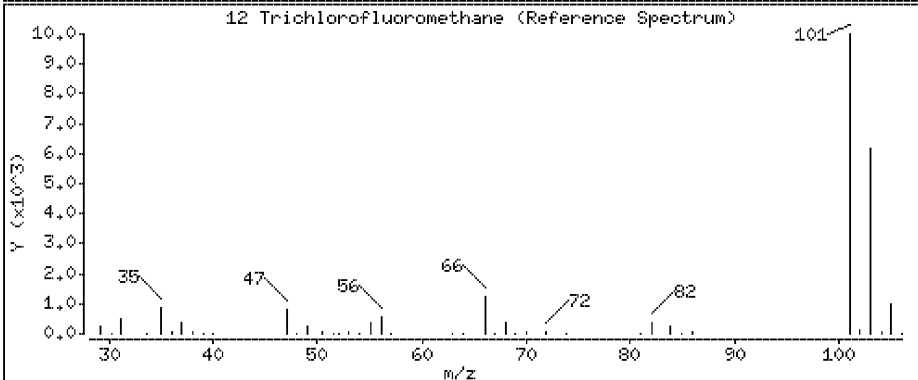
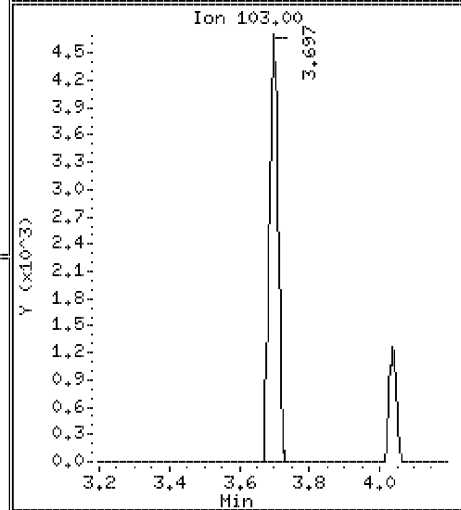
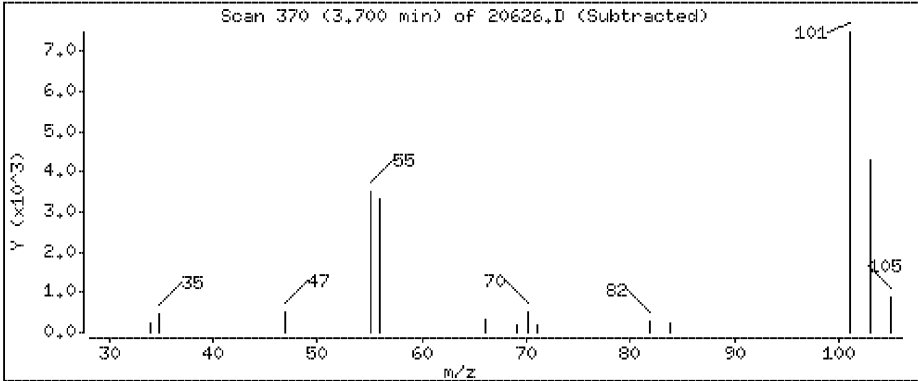
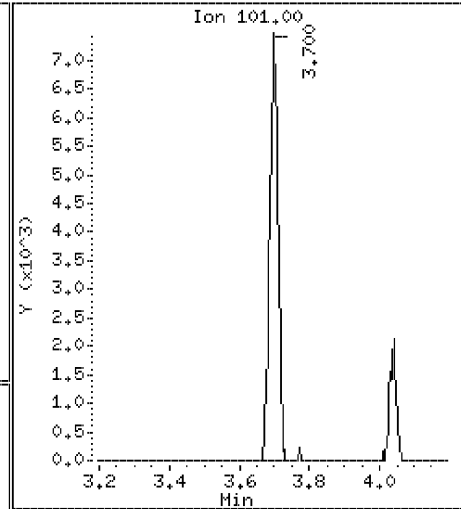
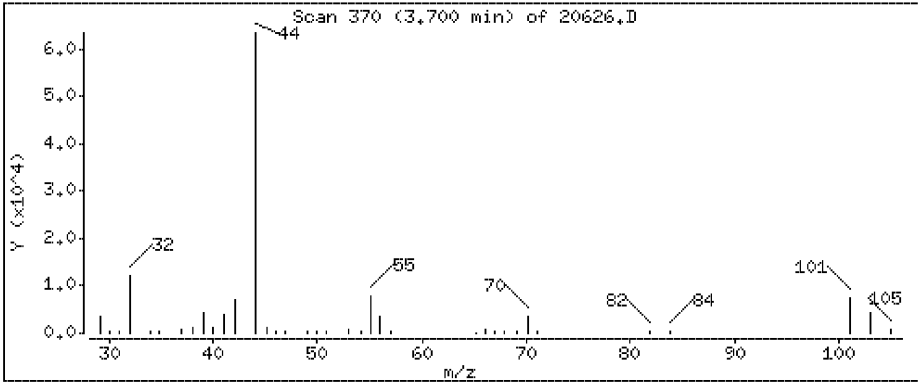
Column phase: J&W DB-5

Column diameter: 0.32

9 Ethanol

Concentration: 3.06 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20626.D

Date : 26-JUL-2013 01:31

Client ID:

Instrument: 10airD.i

Sample Info:

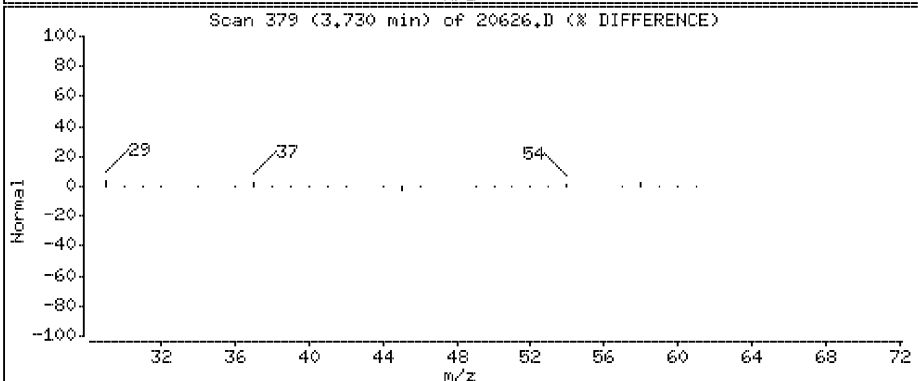
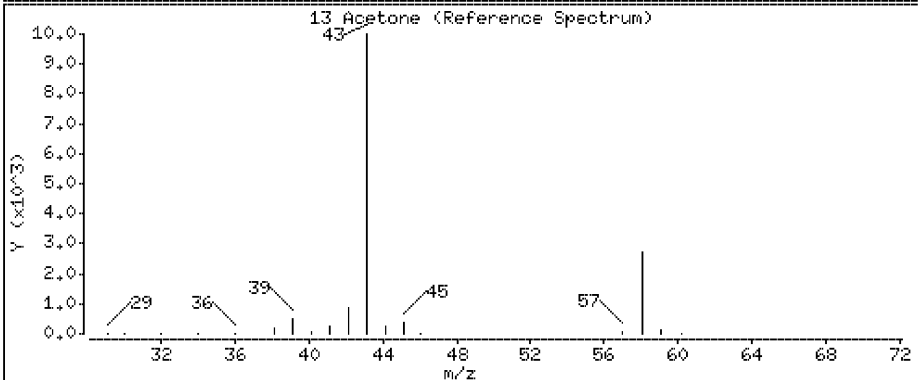
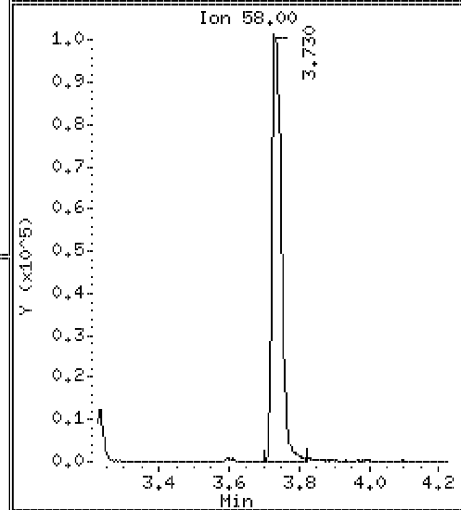
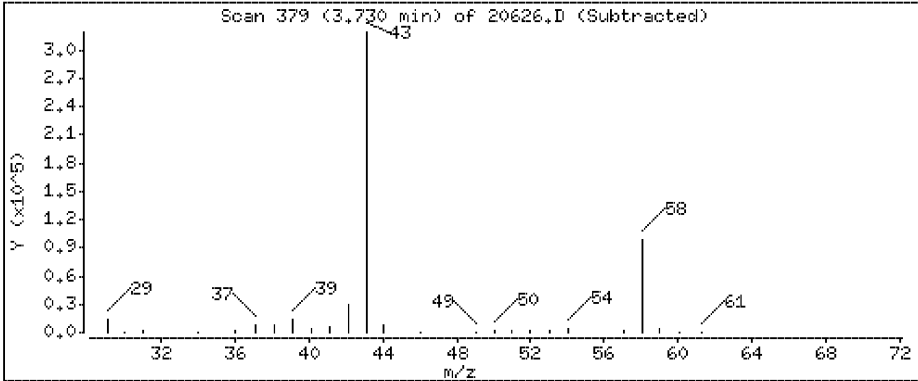
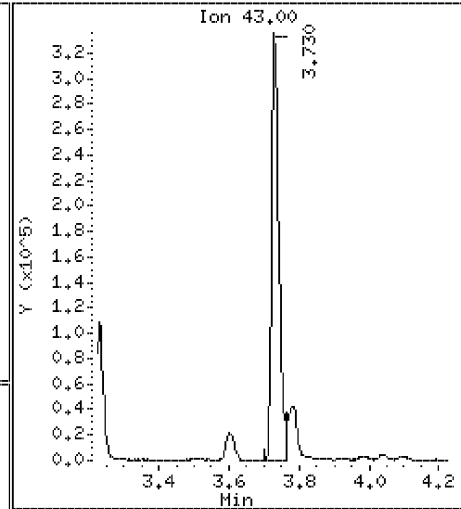
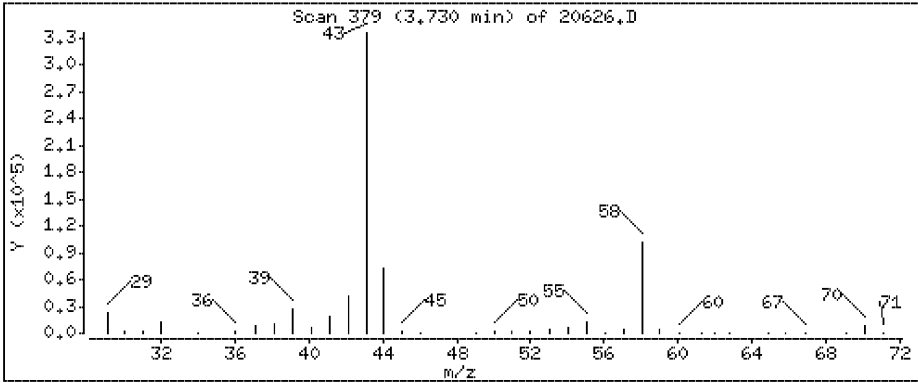
Operator: DR1

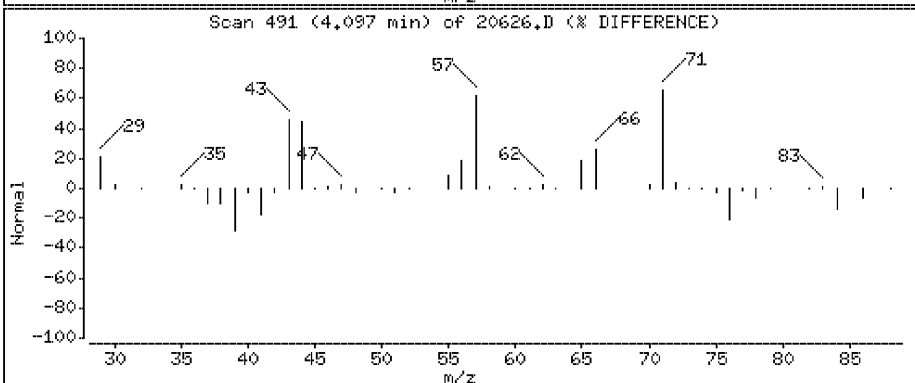
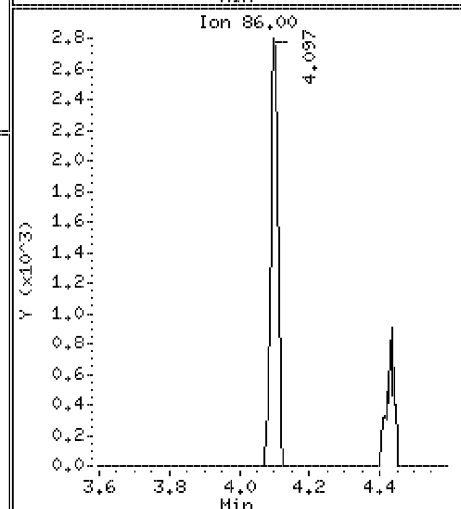
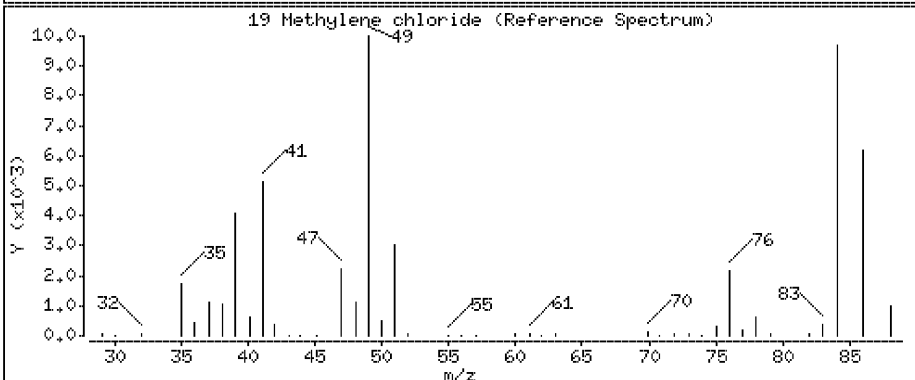
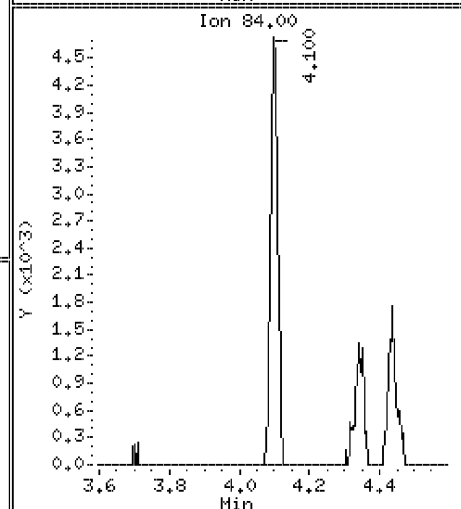
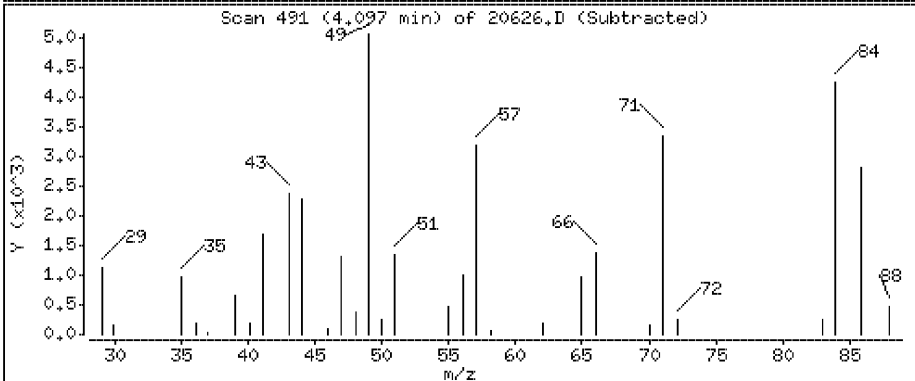
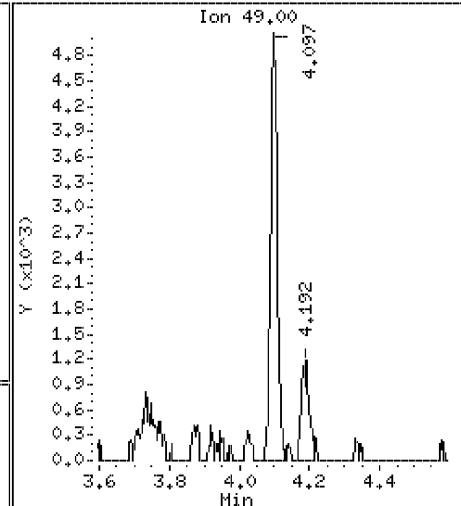
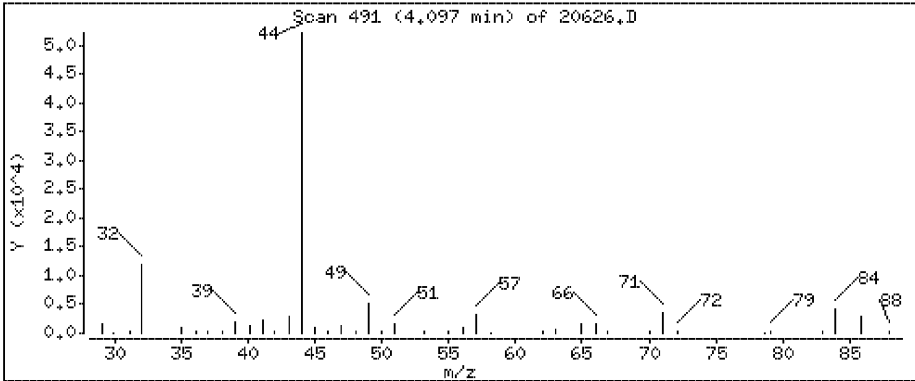
Column phase: J&W DB-5

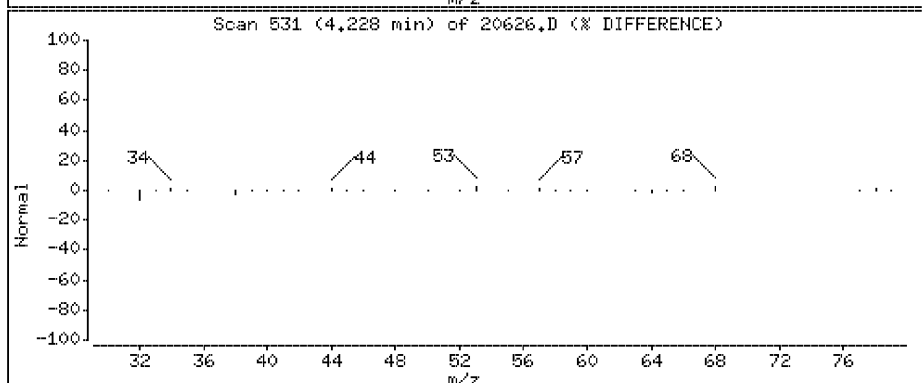
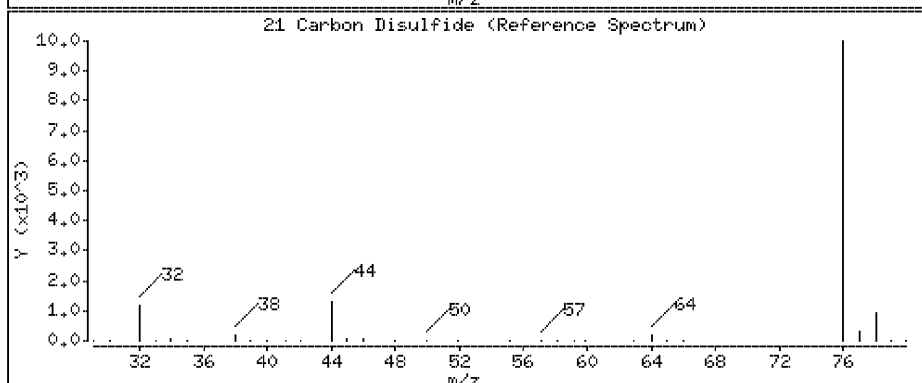
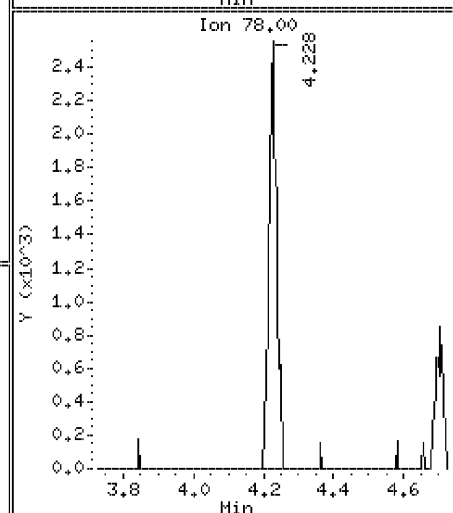
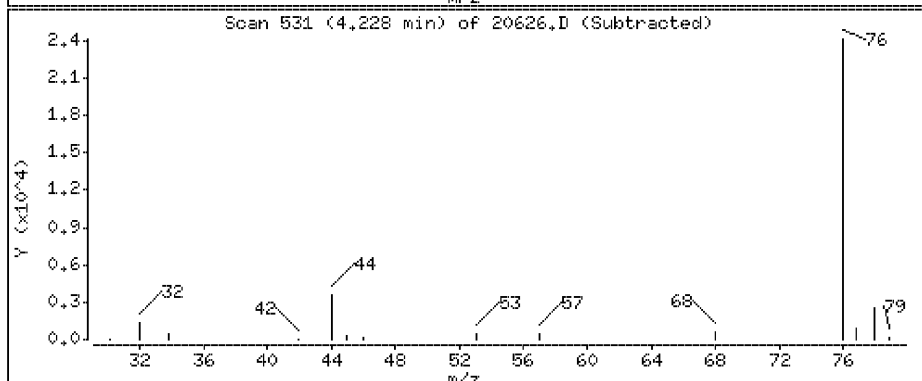
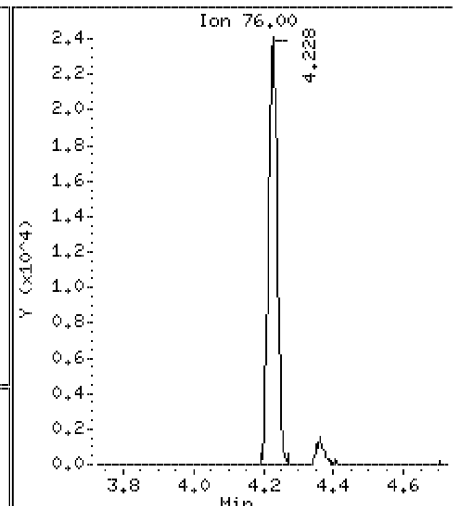
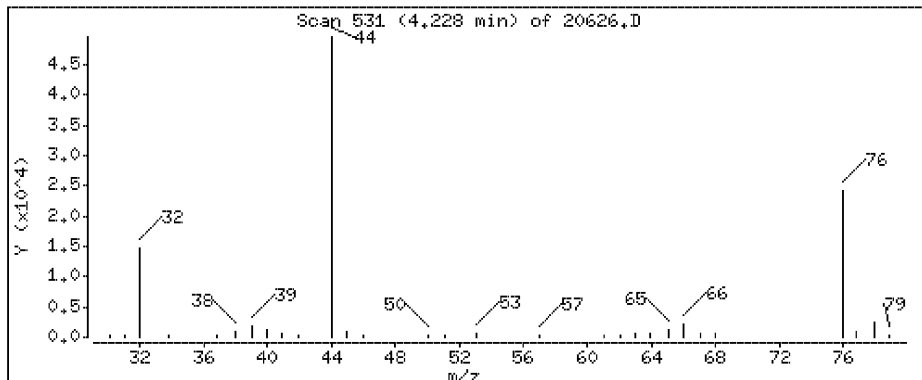
Column diameter: 0.32

13 Acetone

Concentration: 15.0 ppbv







Data File: \\192.168.10.12\chem\10airD,1\072513,b\20626.D

Date : 26-JUL-2013 01:31

Client ID:

Instrument: 10airD.i

Sample Info:

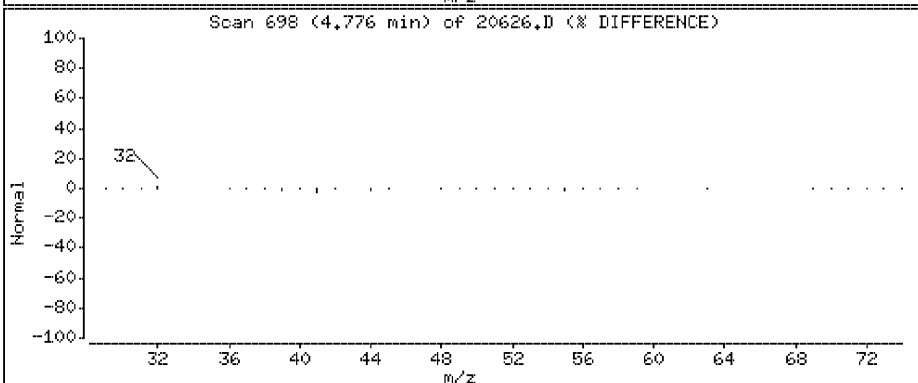
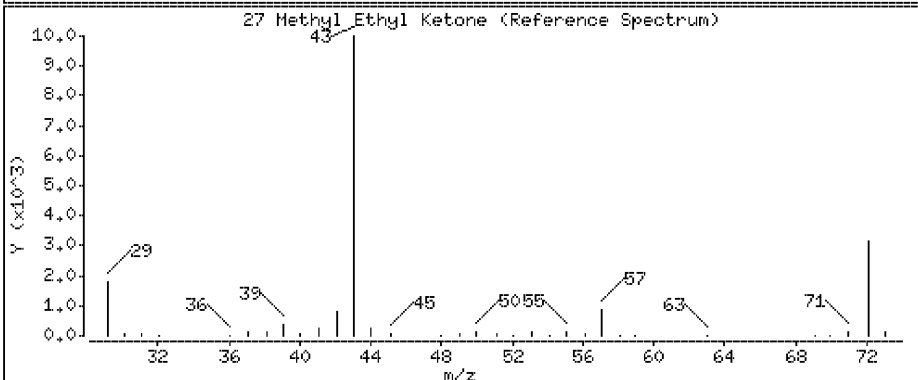
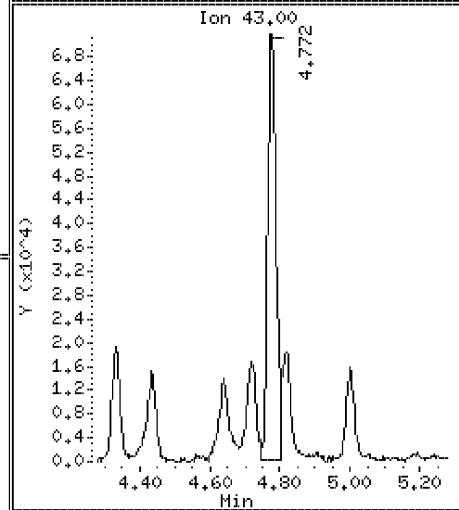
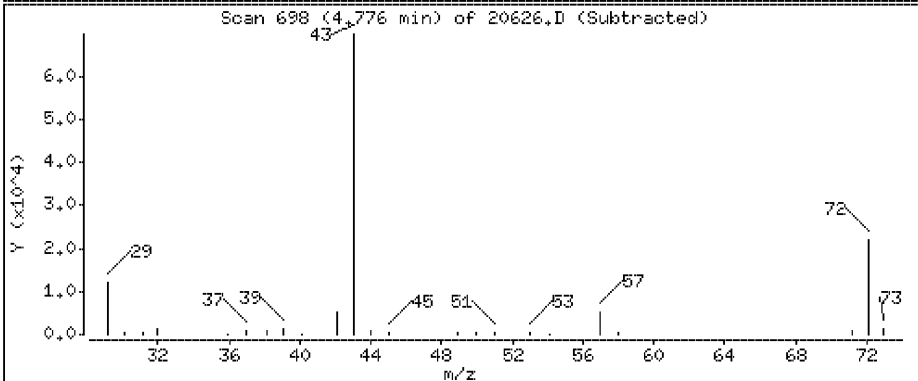
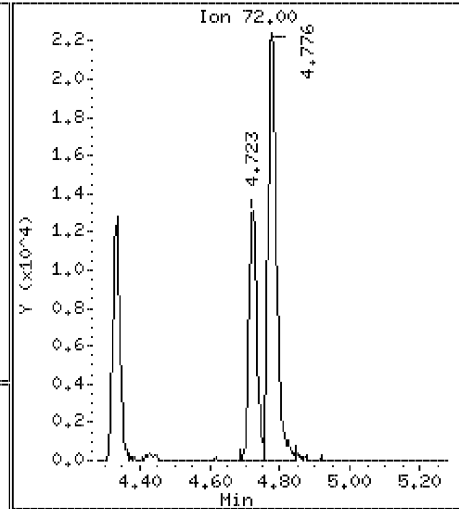
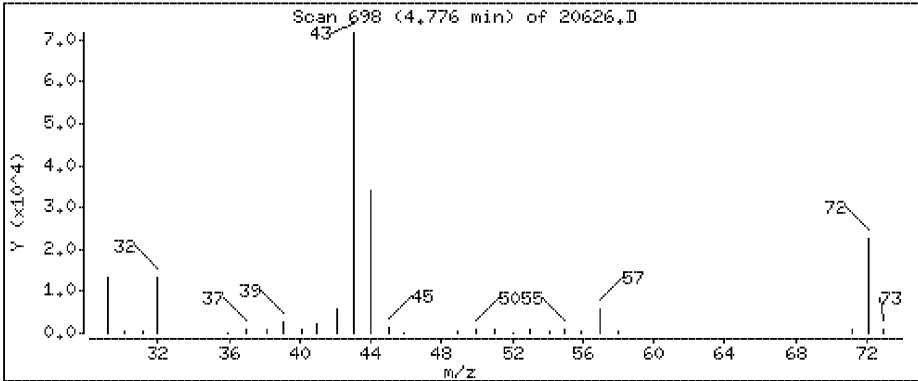
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

27 Methyl Ethyl Ketone

Concentration: 5.05 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20626.D

Date : 26-JUL-2013 01:31

Client ID:

Instrument: 10airD.i

Sample Info:

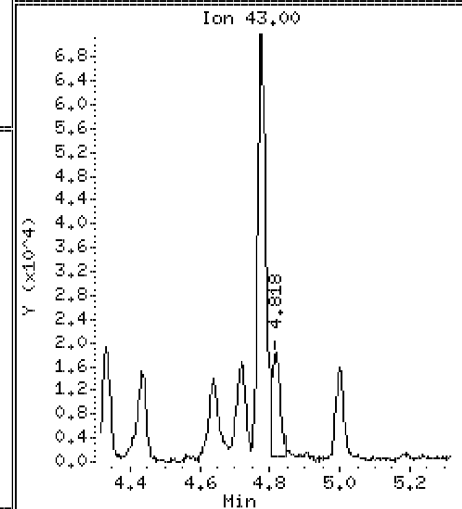
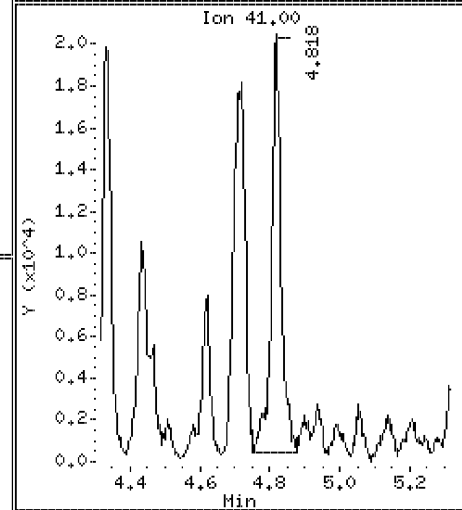
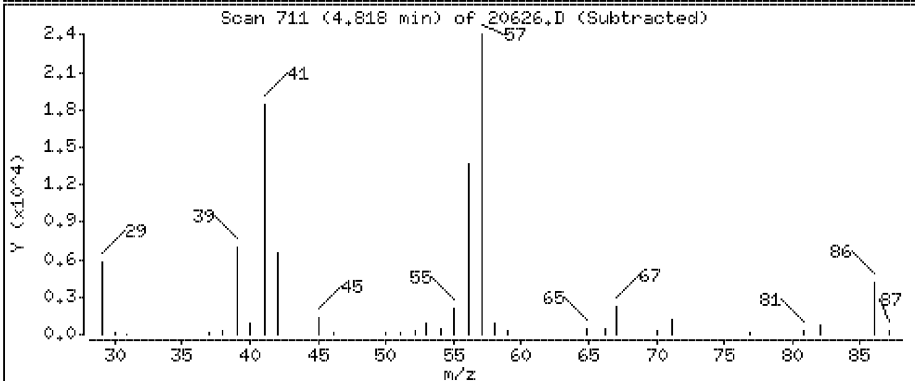
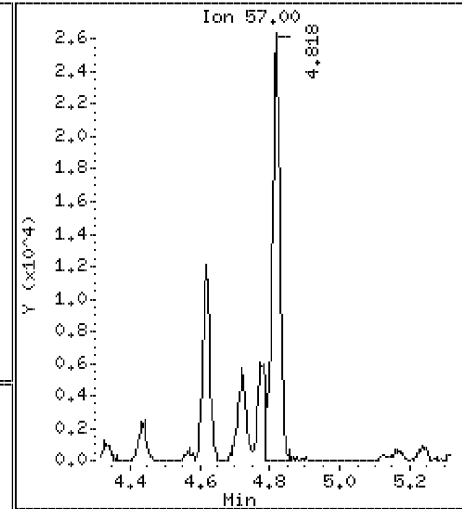
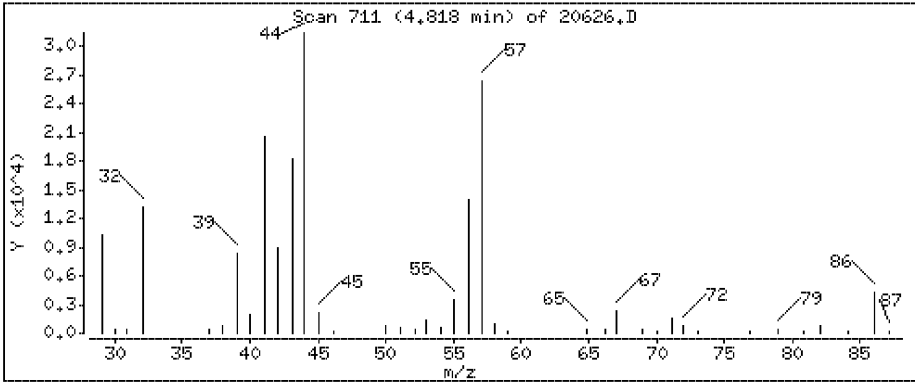
Operator: DR1

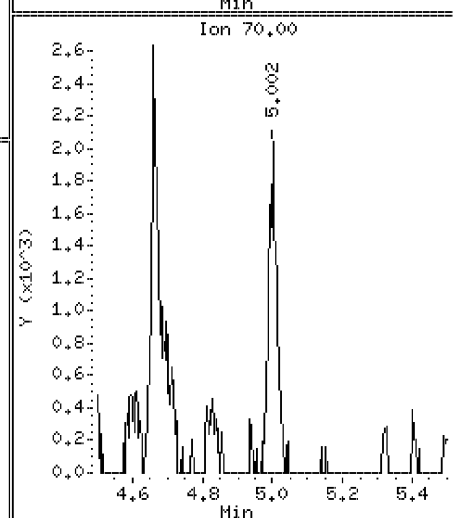
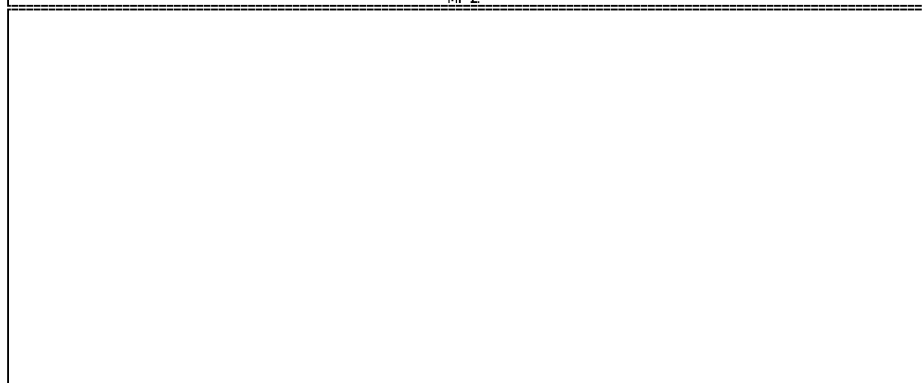
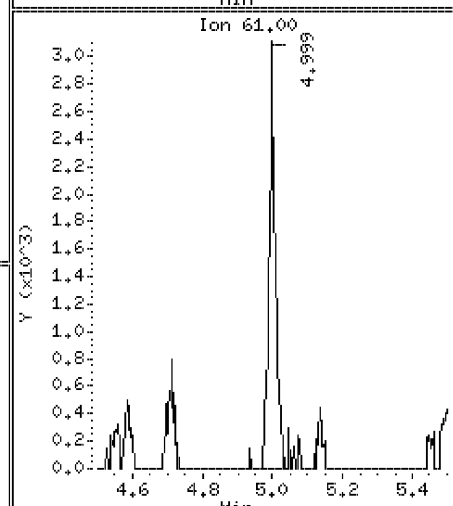
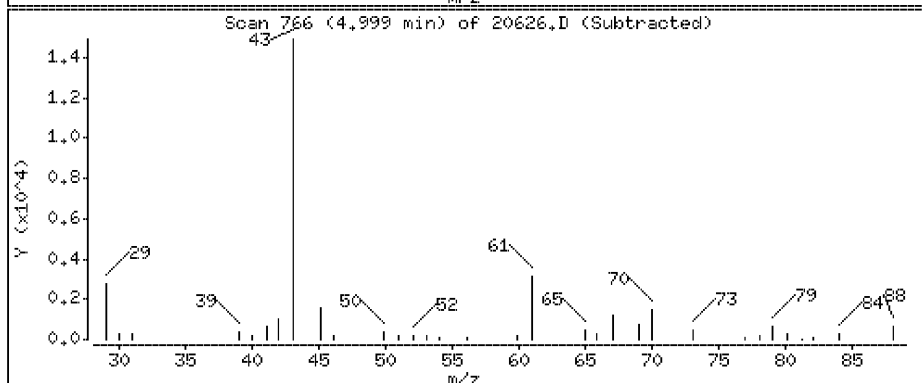
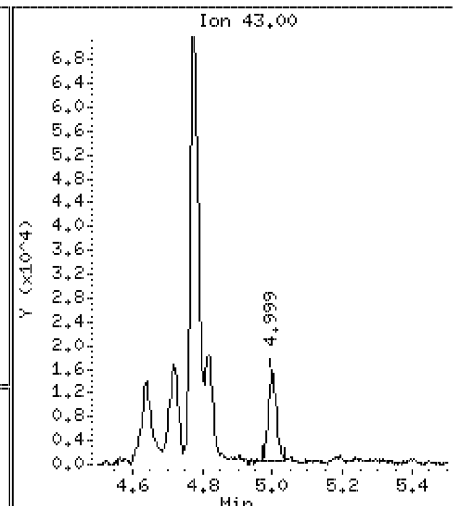
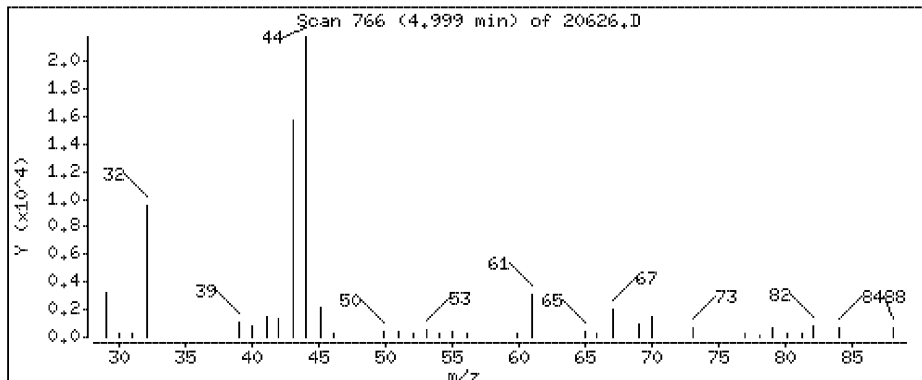
Column phase: J&W DB-5

Column diameter: 0.32

28 n-Hexane

Concentration: 1.89 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20626.D

Date : 26-JUL-2013 01:31

Client ID:

Instrument: 10airD.i

Sample Info:

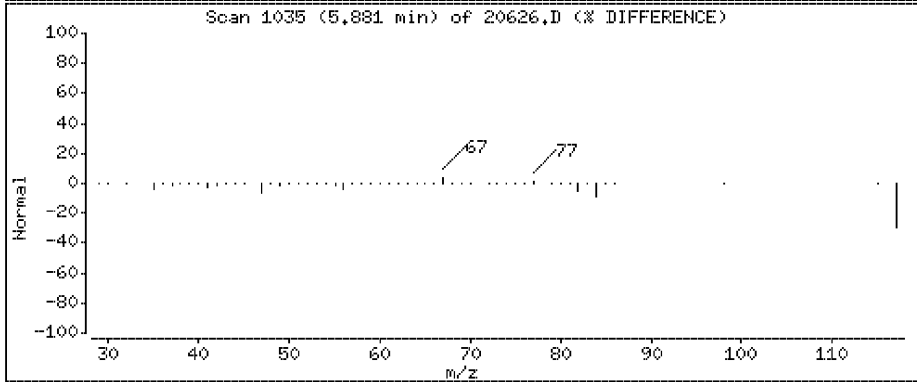
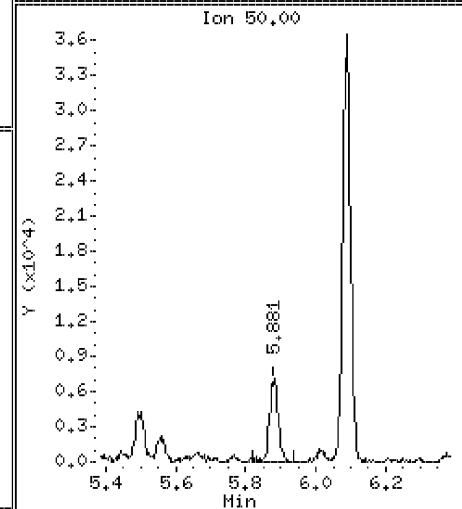
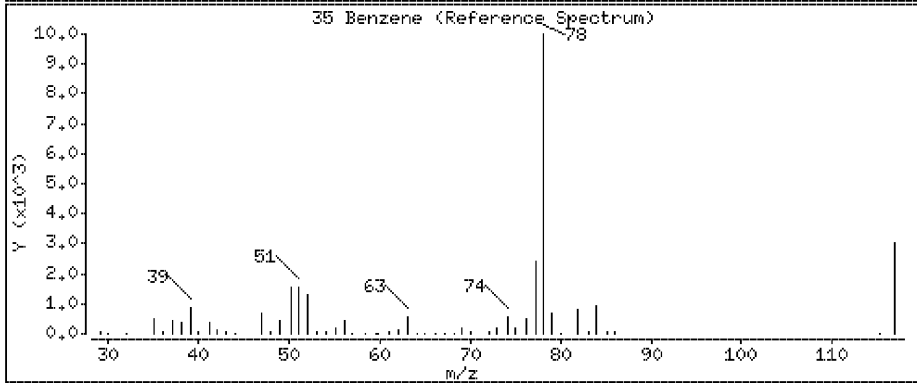
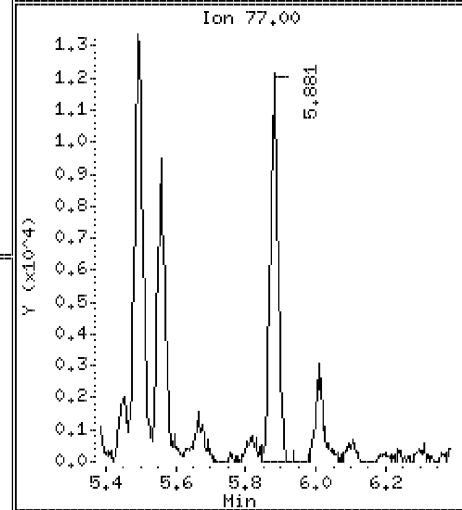
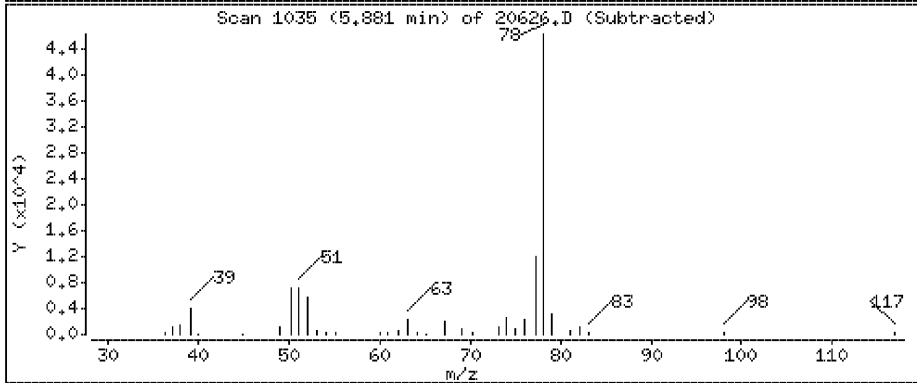
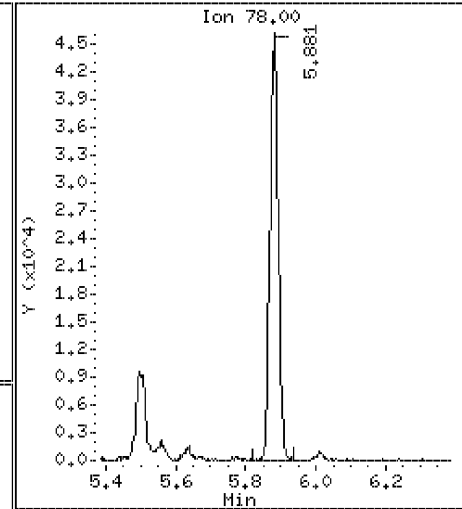
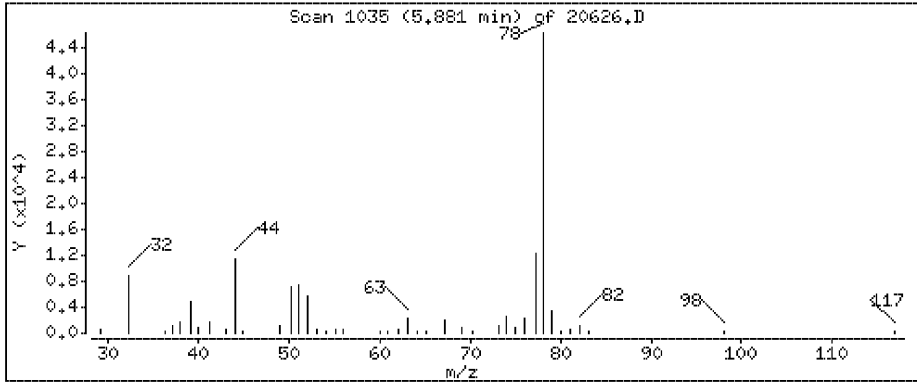
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

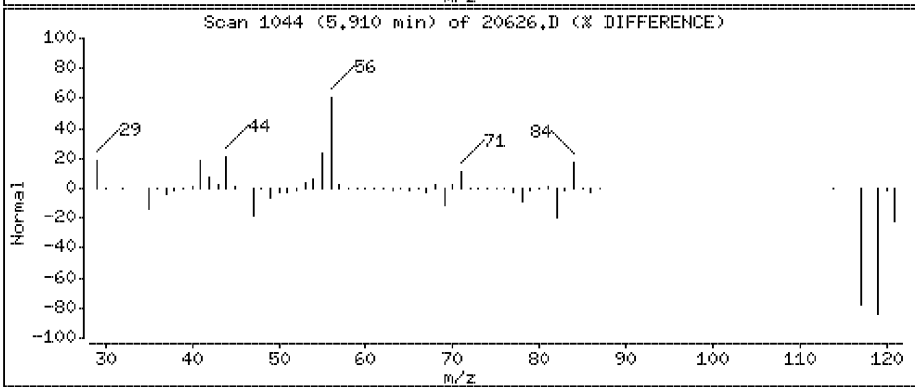
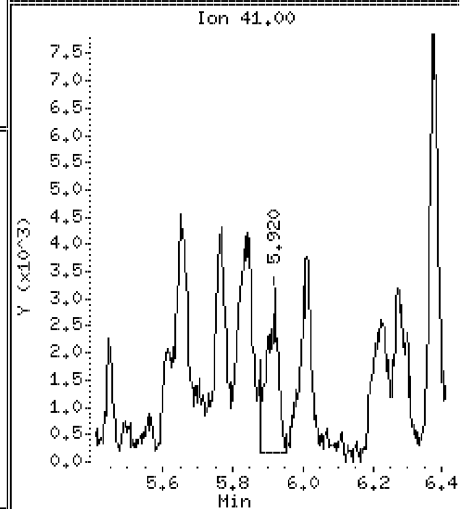
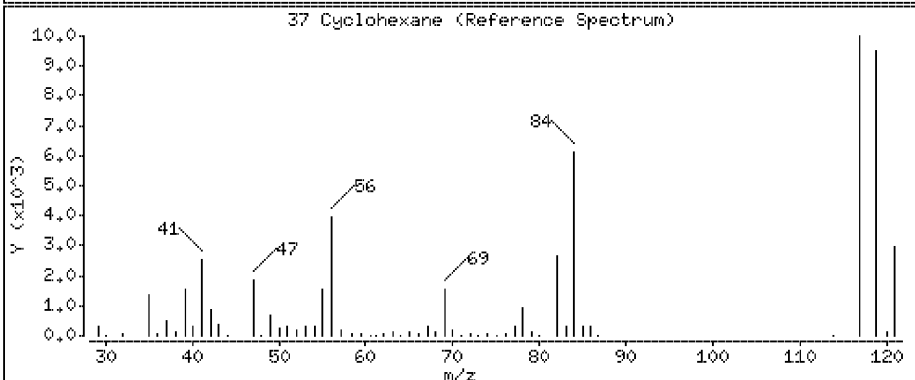
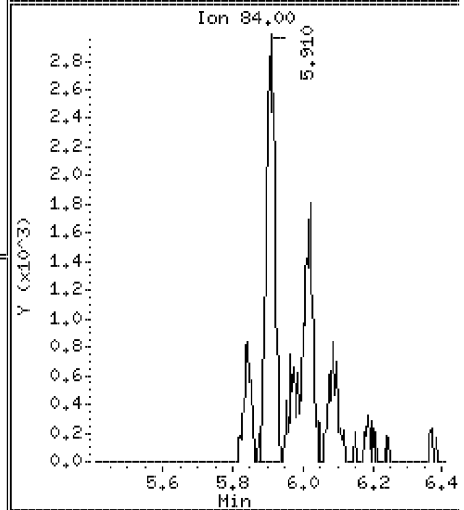
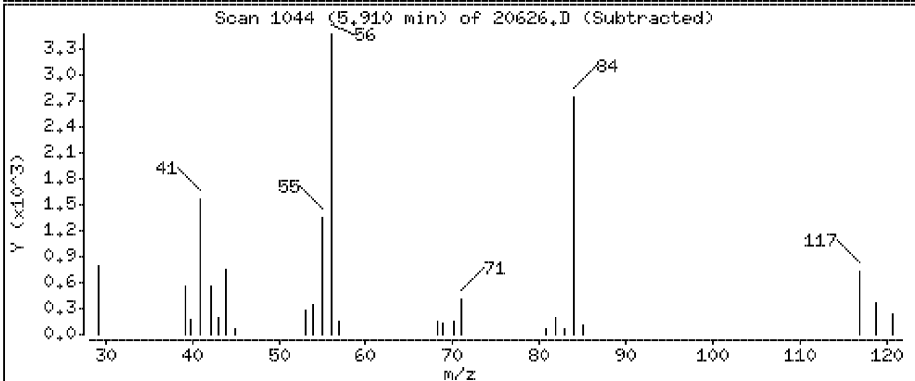
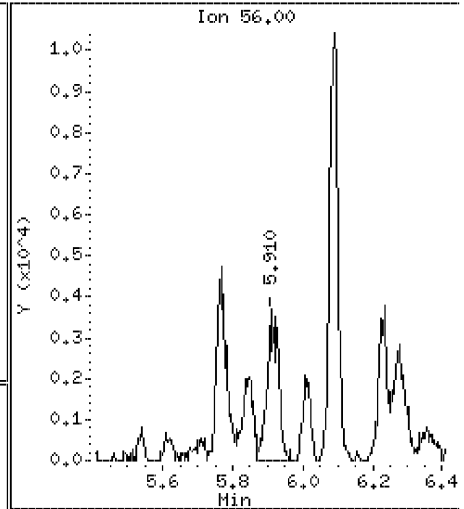
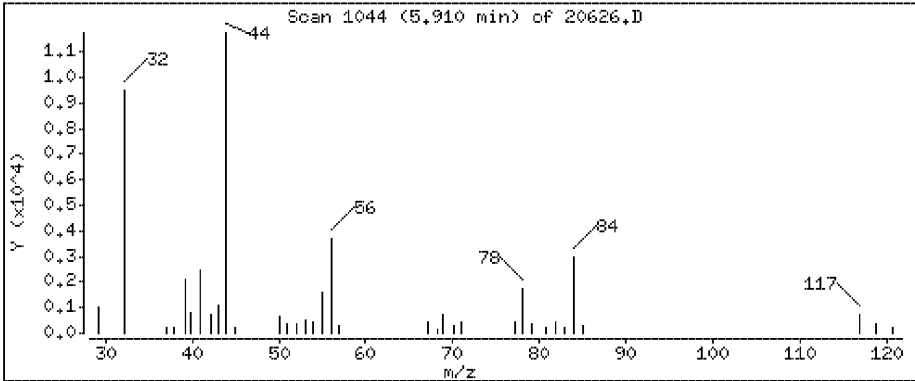
35 Benzene

Concentration: 2.24 ppbv



37 Cyclohexane

Concentration: 1.15 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20626.D

Date : 26-JUL-2013 01:31

Client ID:

Instrument: 10airD.i

Sample Info:

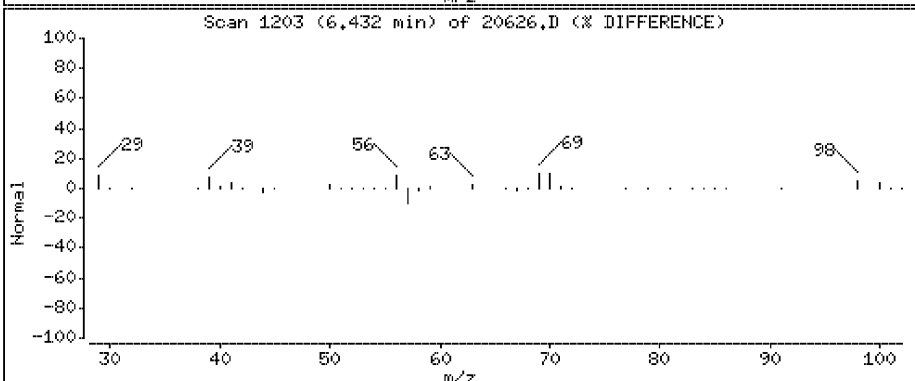
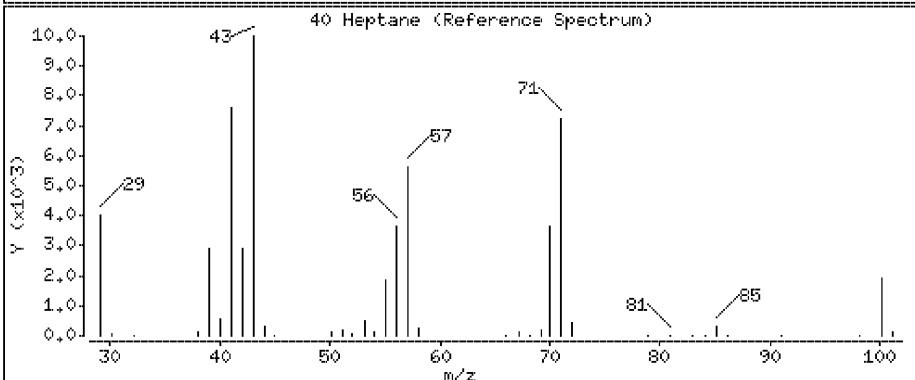
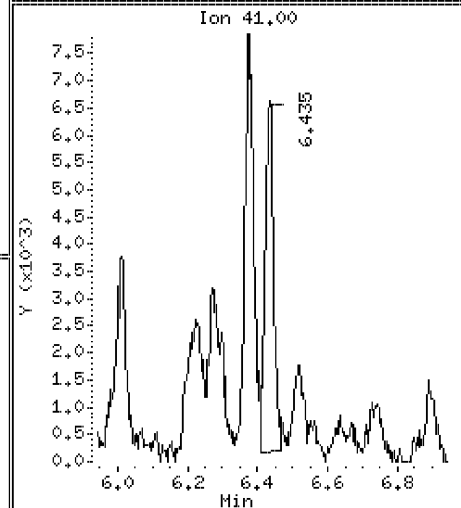
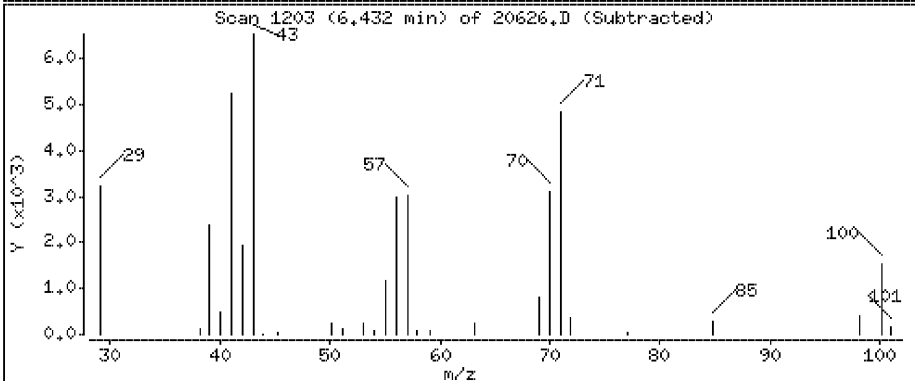
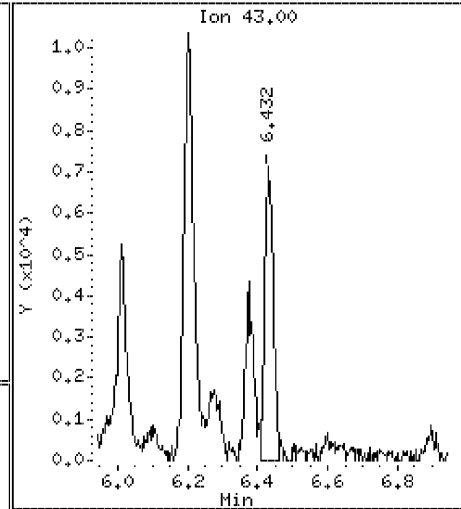
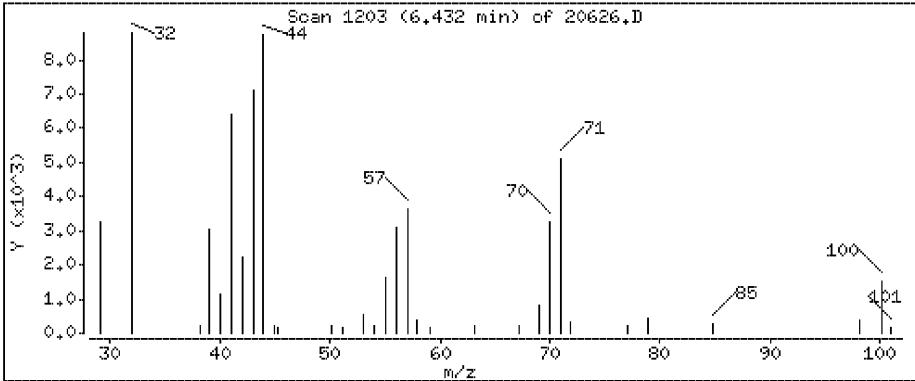
Operator: DR1

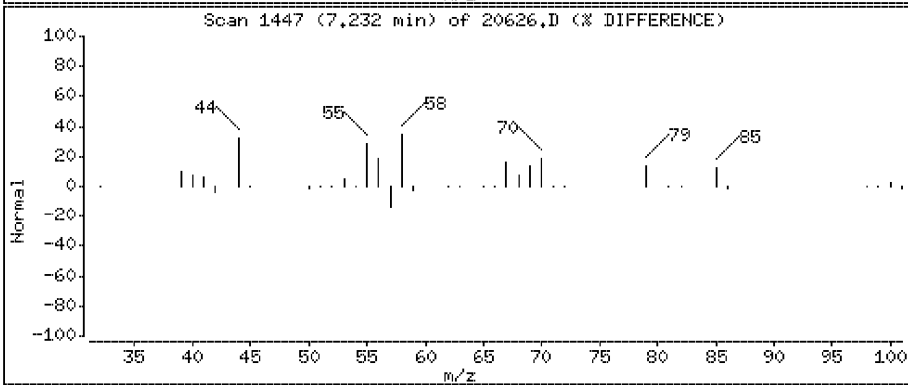
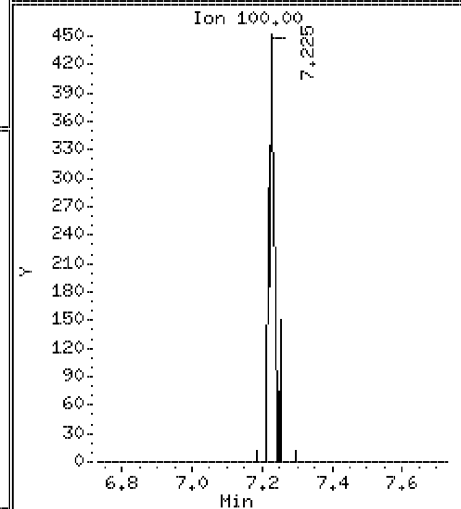
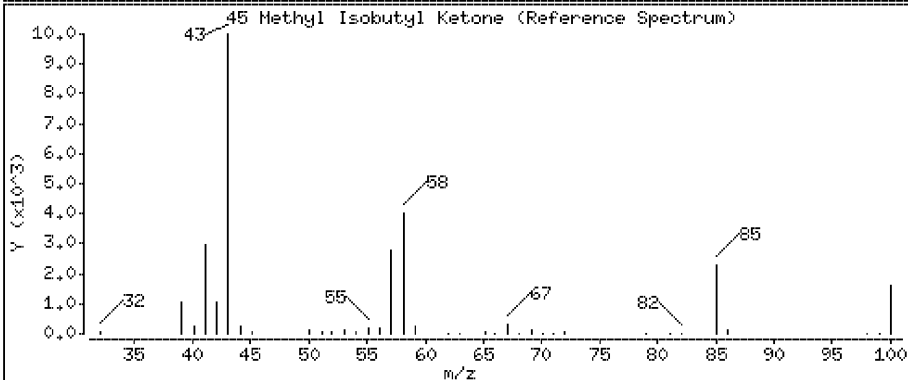
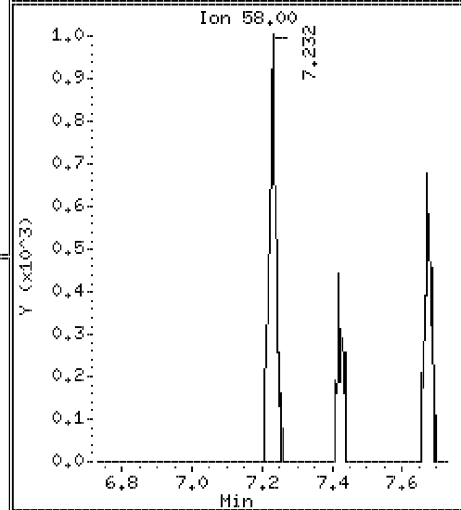
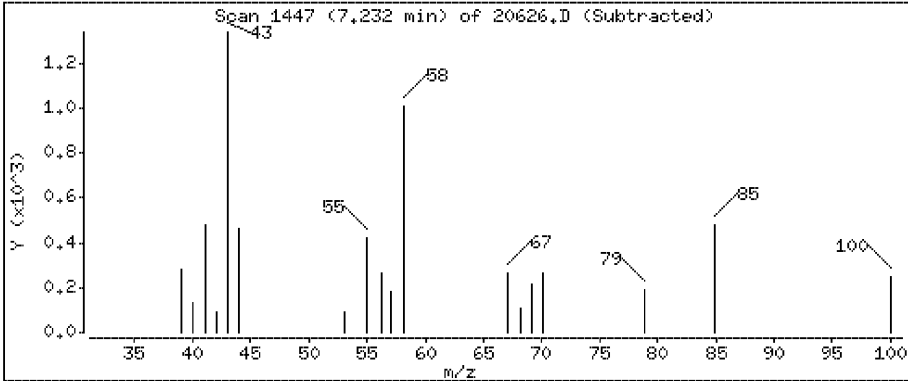
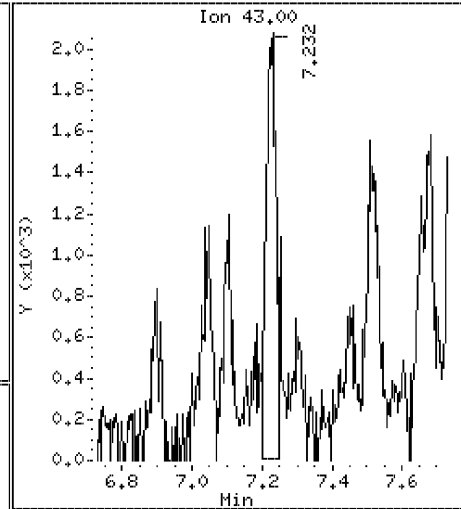
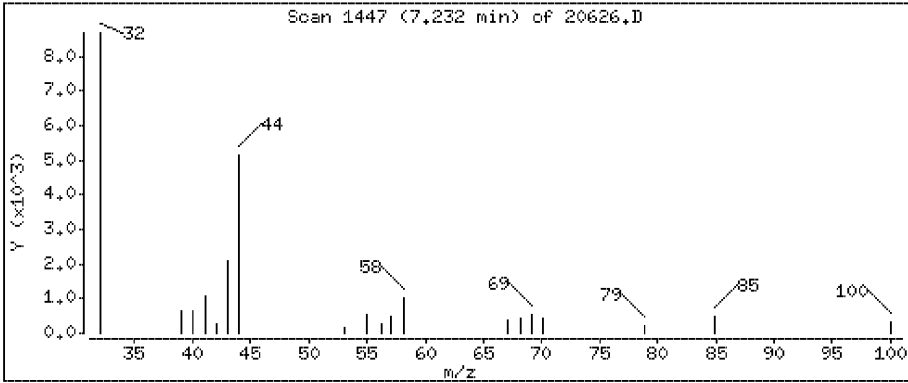
Column phase: J&W DB-5

Column diameter: 0.32

40 Heptane

Concentration: 1.35 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20626.D

Date : 26-JUL-2013 01:31

Client ID:

Instrument: 10airD.i

Sample Info:

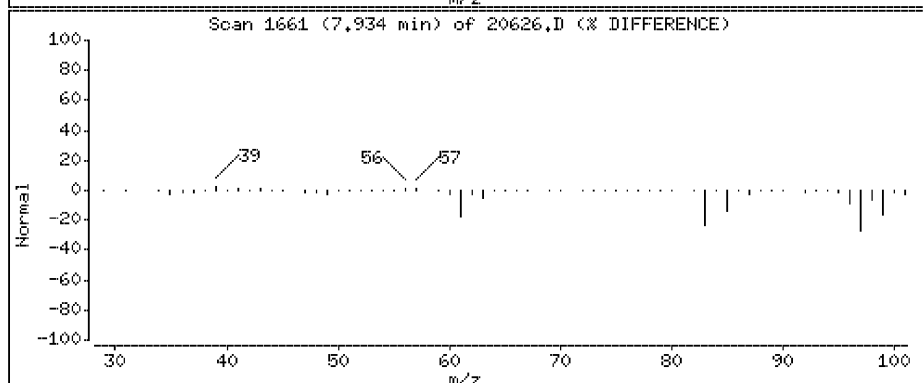
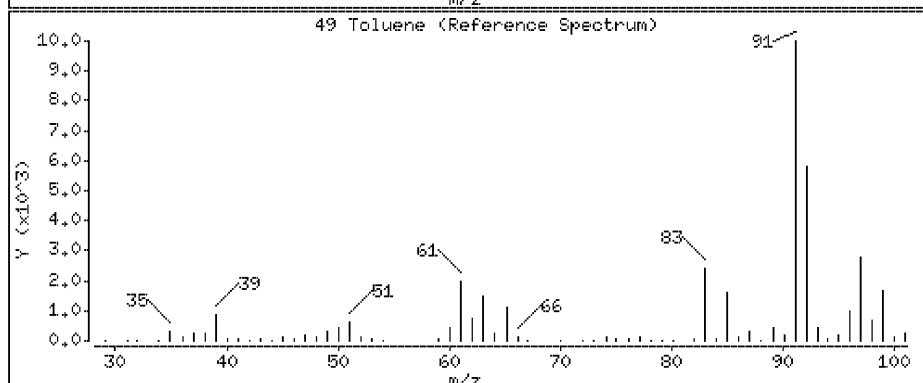
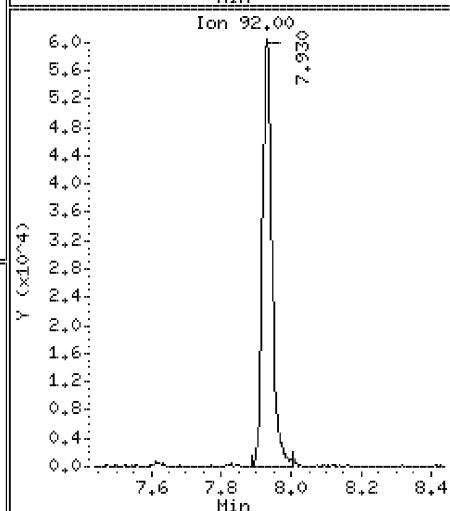
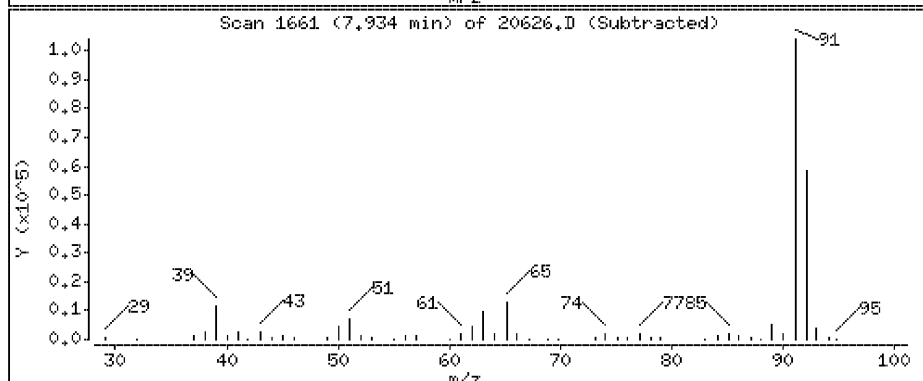
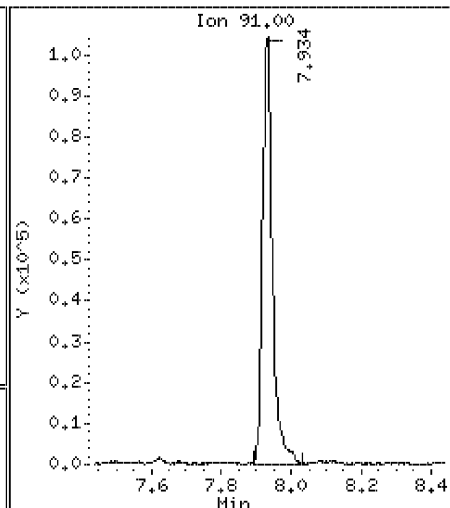
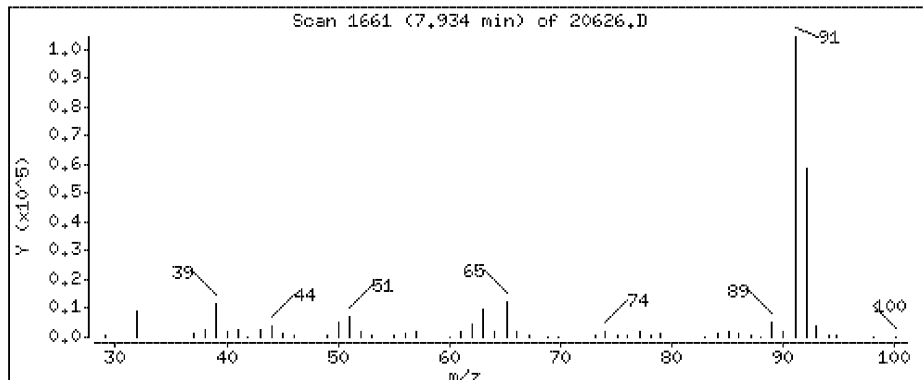
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

49 Toluene

Concentration: 4.06 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20626.D

Date : 26-JUL-2013 01:31

Client ID:

Instrument: 10airD.i

Sample Info:

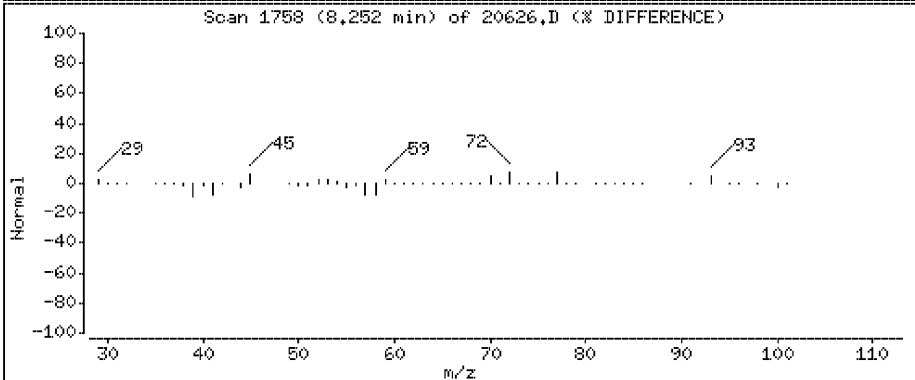
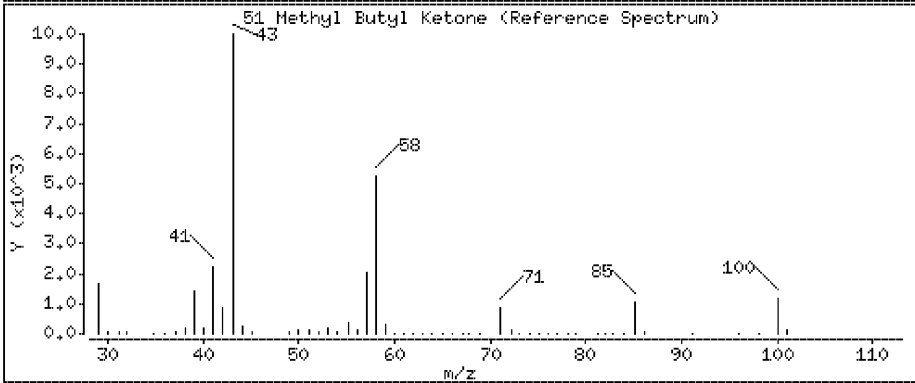
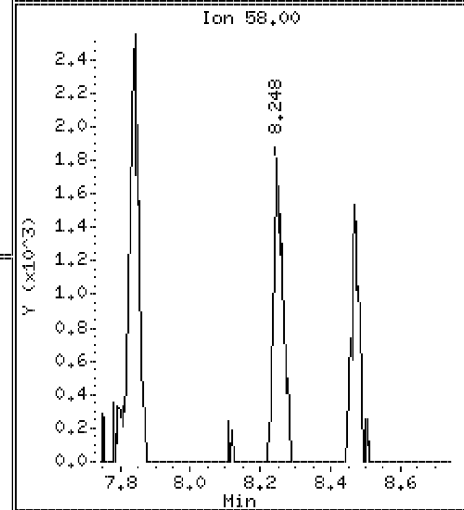
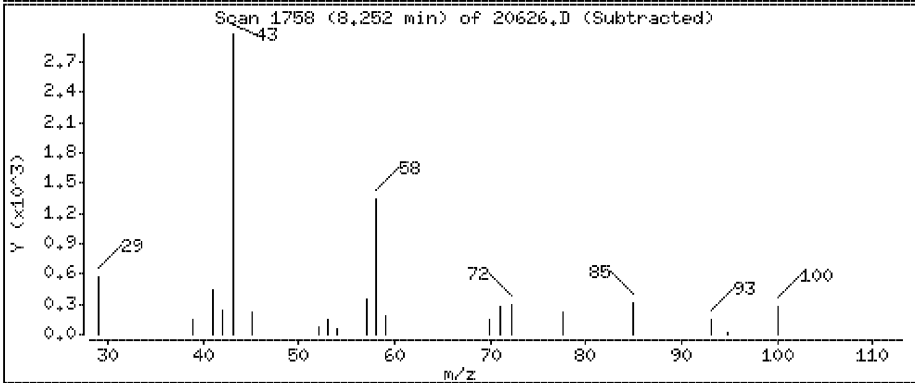
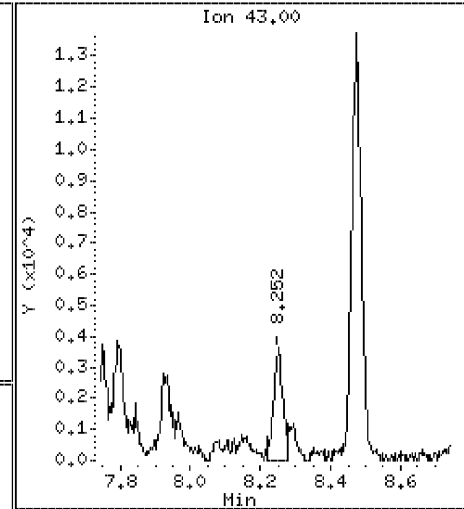
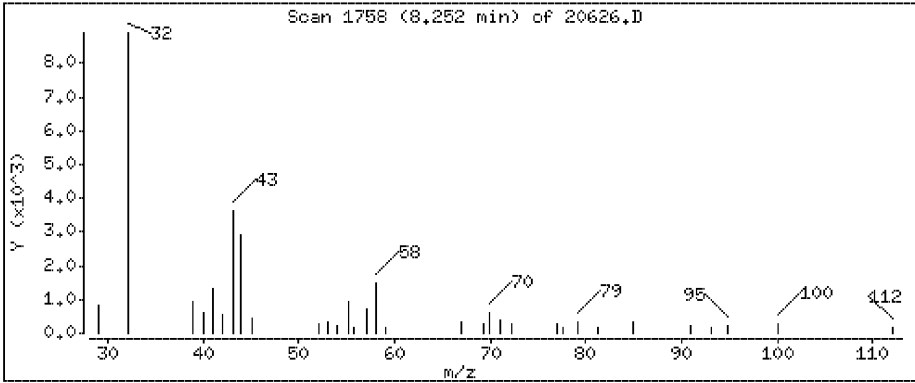
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

51 Methyl Butyl Ketone

Concentration: 0.758 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20626.D

Date : 26-JUL-2013 01:31

Client ID:

Instrument: 10airD.i

Sample Info:

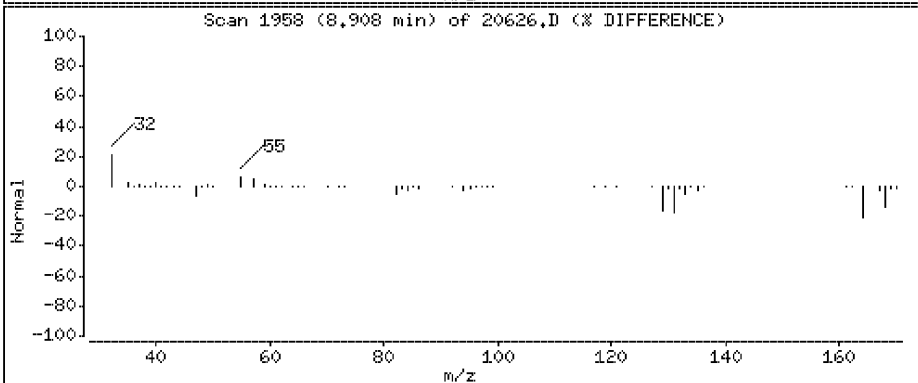
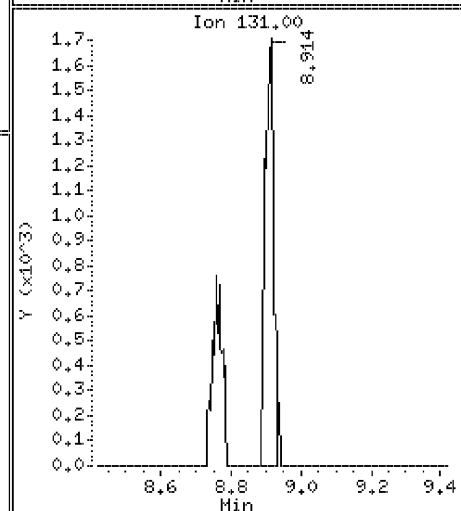
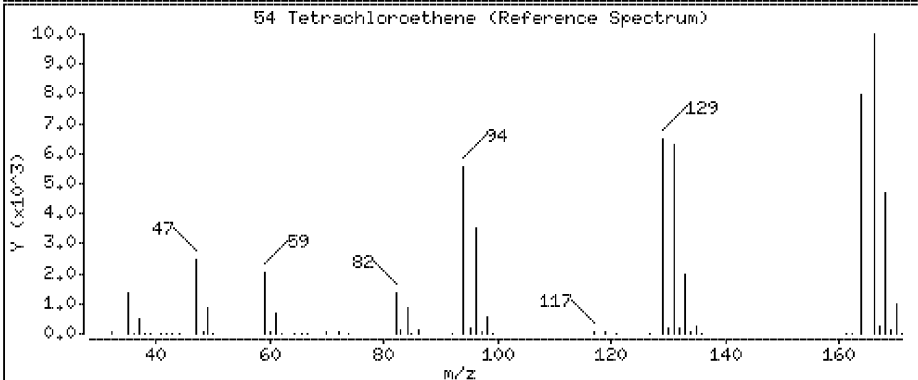
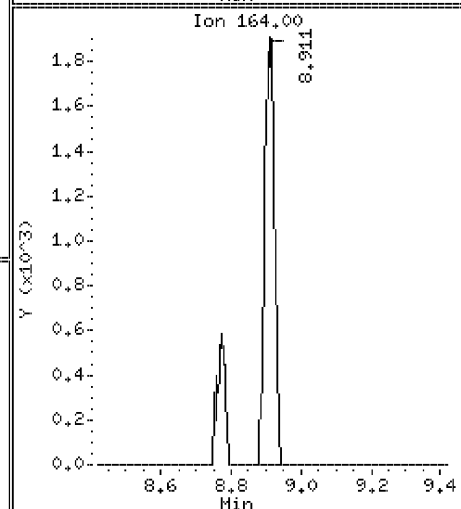
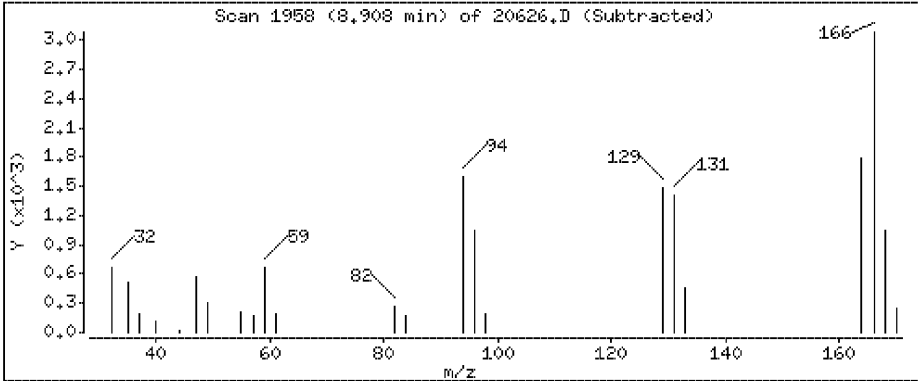
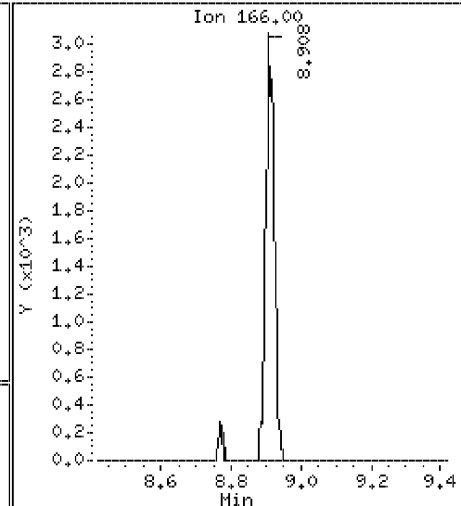
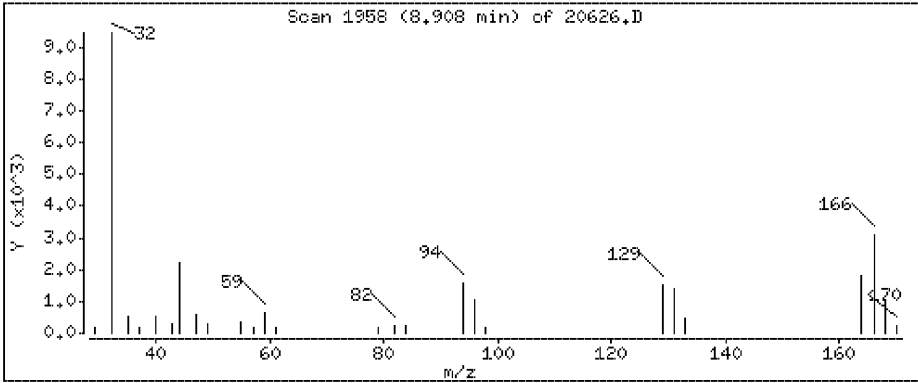
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

54 Tetrachloroethene

Concentration: 0.736 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20626.D

Date : 26-JUL-2013 01:31

Client ID:

Instrument: 10airD.i

Sample Info:

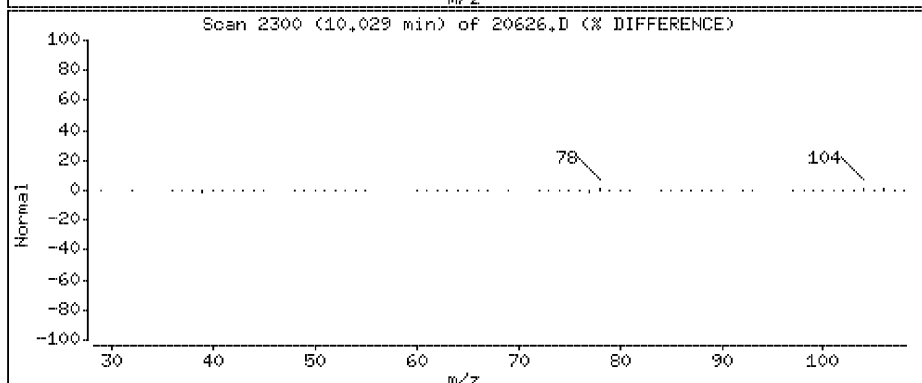
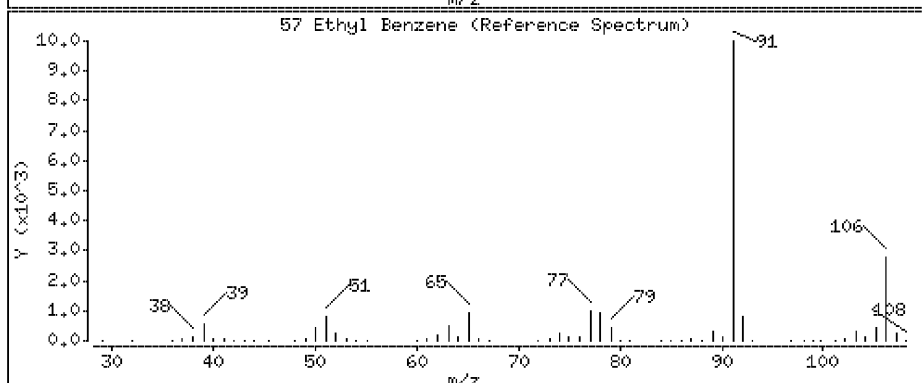
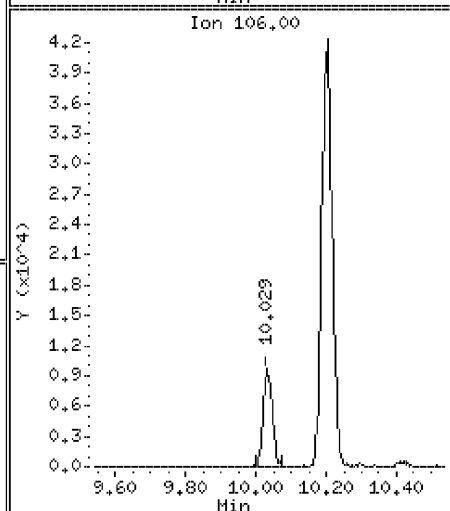
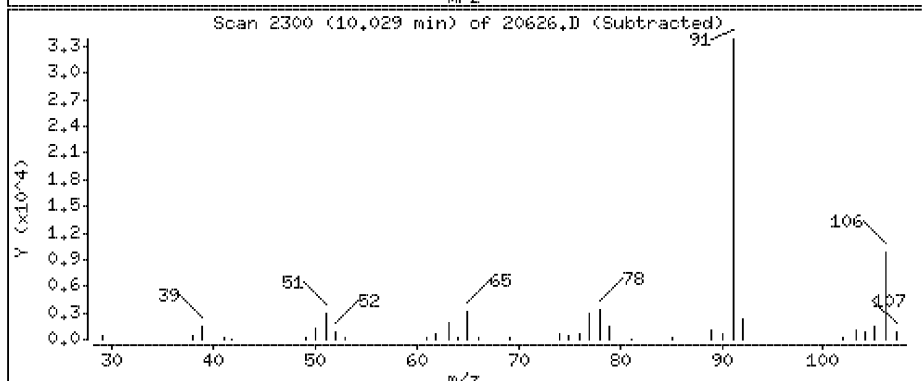
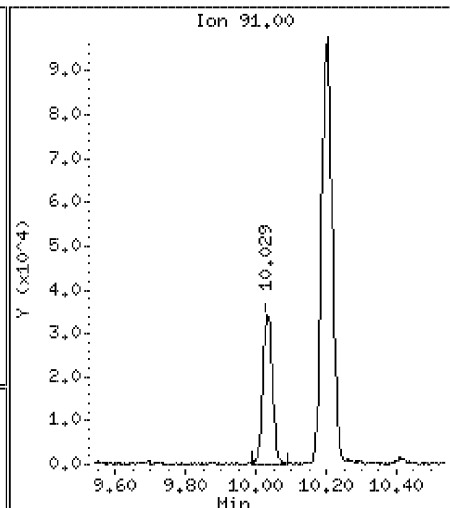
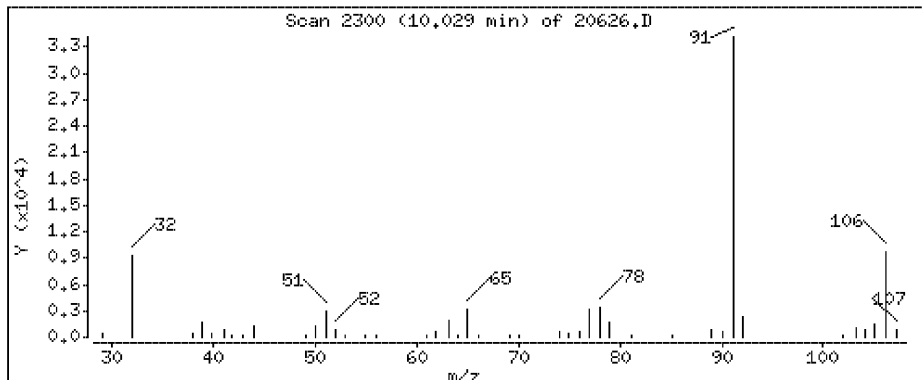
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

57 Ethyl Benzene

Concentration: 1.34 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20626.D

Date : 26-JUL-2013 01:31

Client ID:

Instrument: 10airD.i

Sample Info:

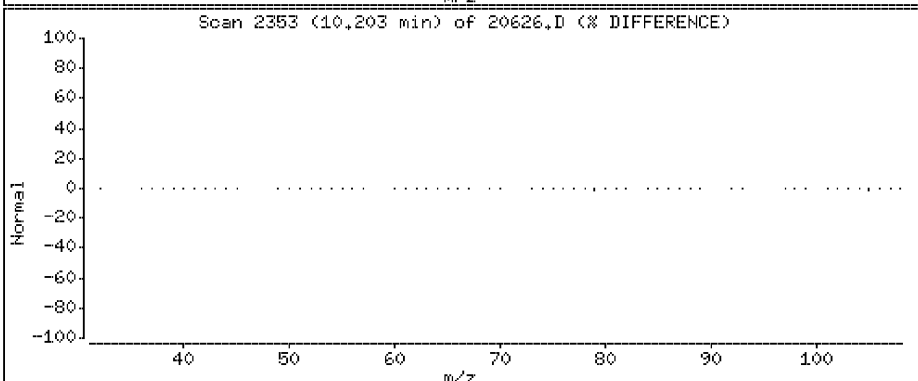
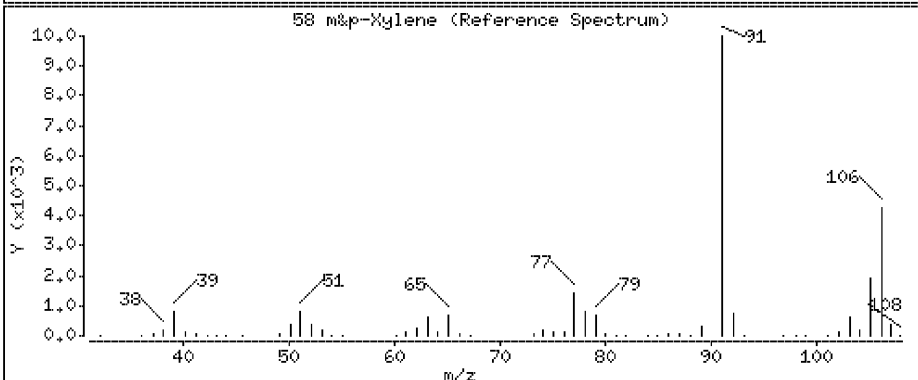
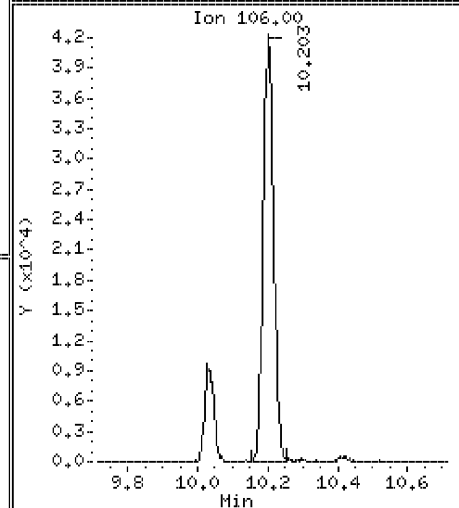
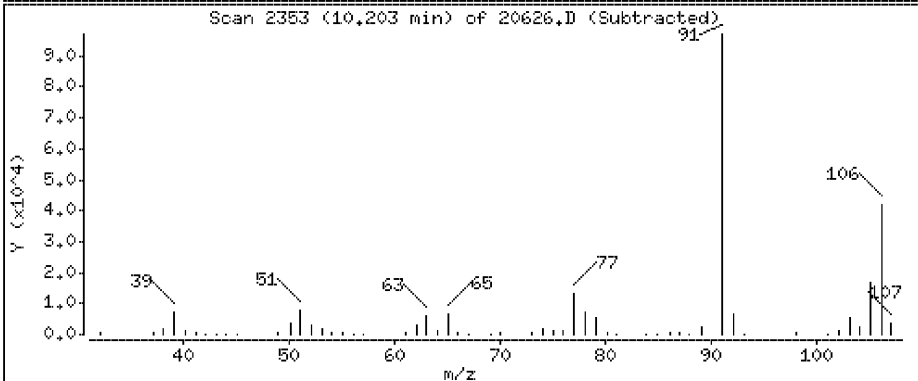
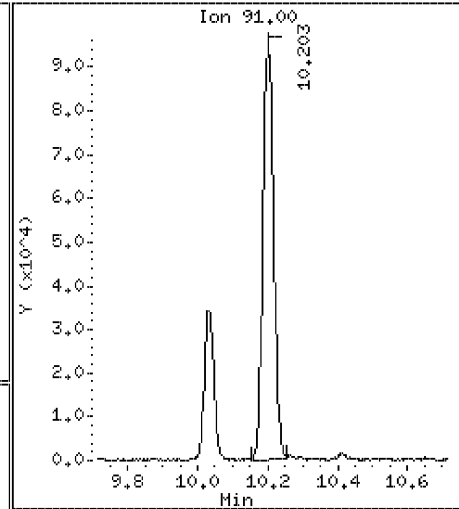
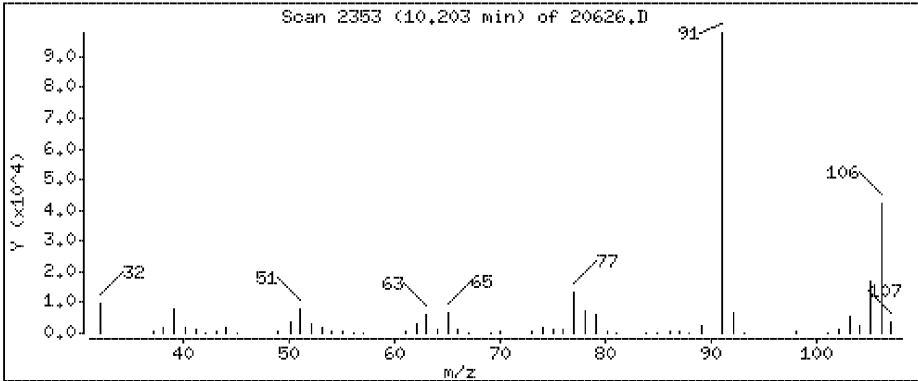
Operator: DR1

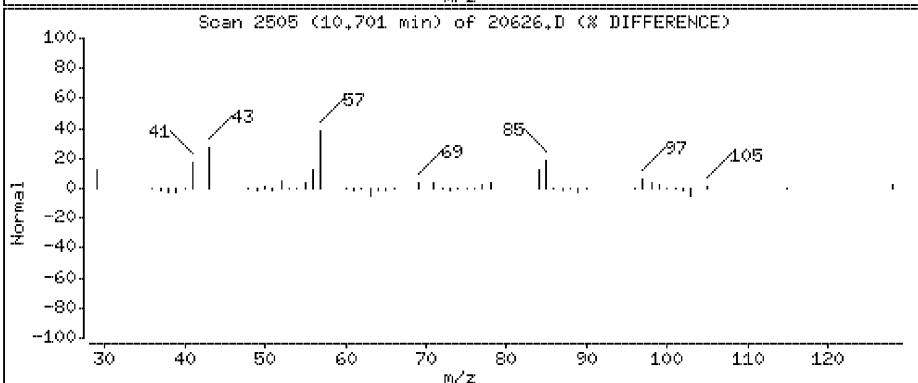
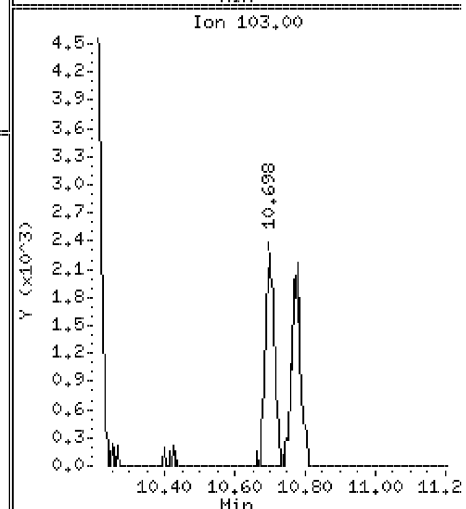
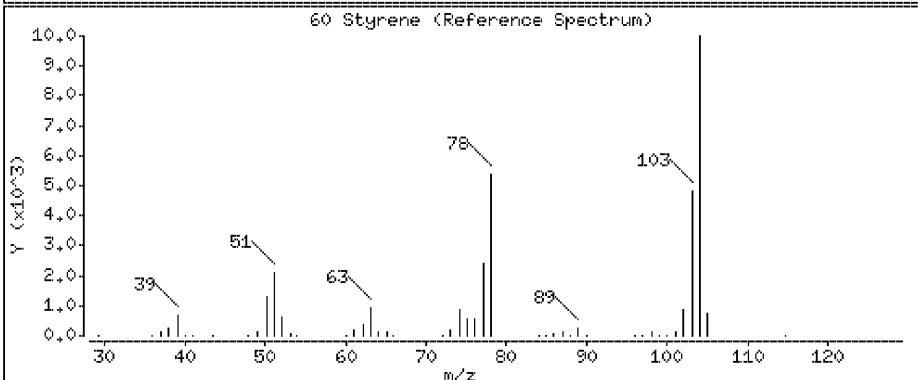
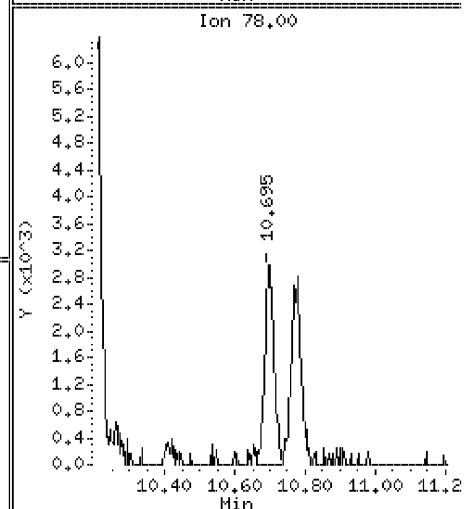
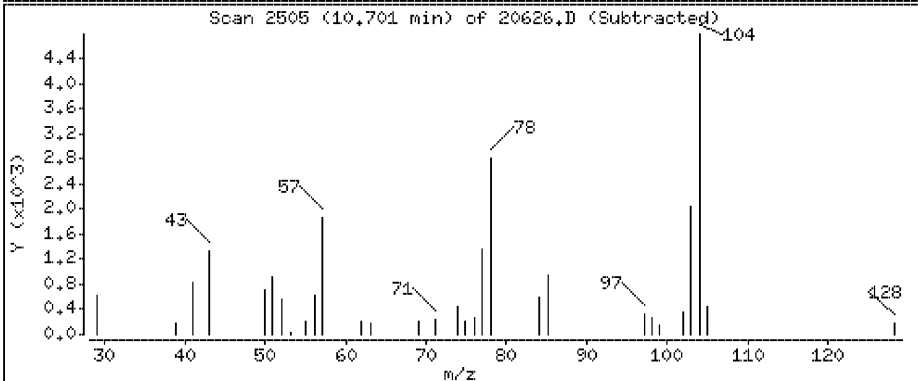
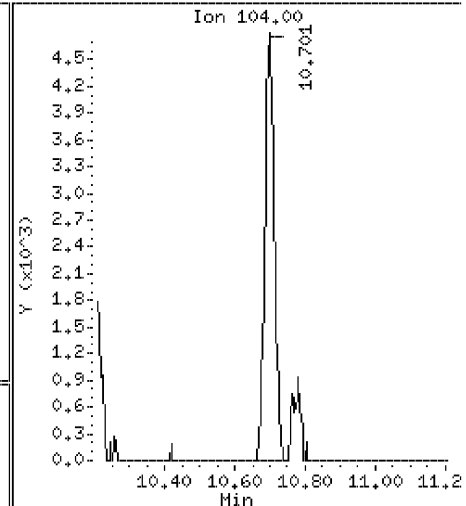
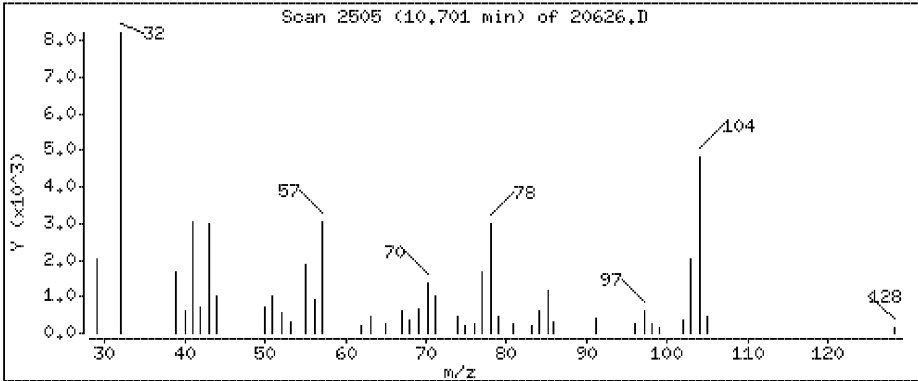
Column phase: J&W DB-5

Column diameter: 0.32

58 m&p-Xylene

Concentration: 3.86 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20626.D

Date : 26-JUL-2013 01:31

Client ID:

Instrument: 10airD.i

Sample Info:

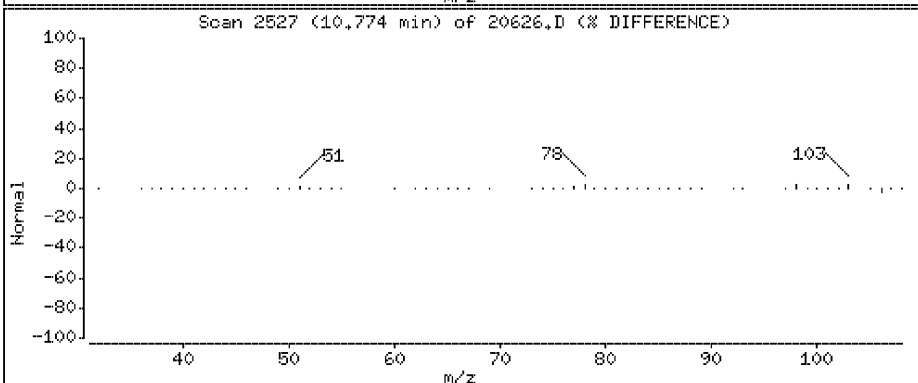
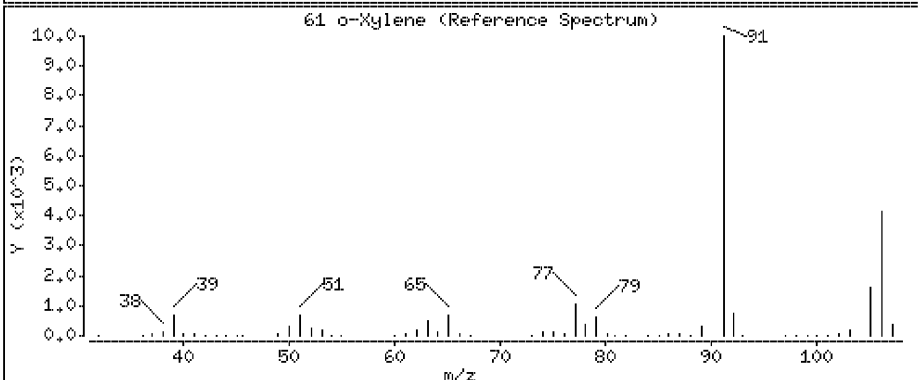
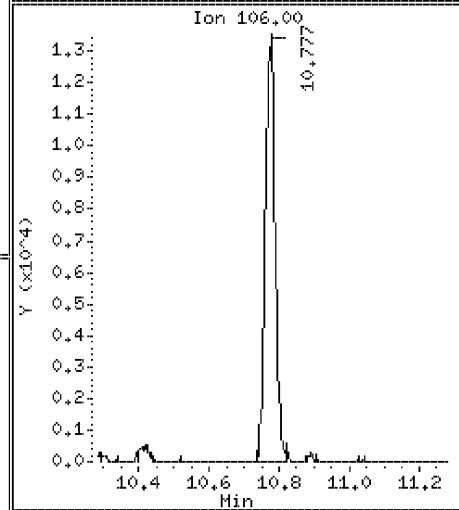
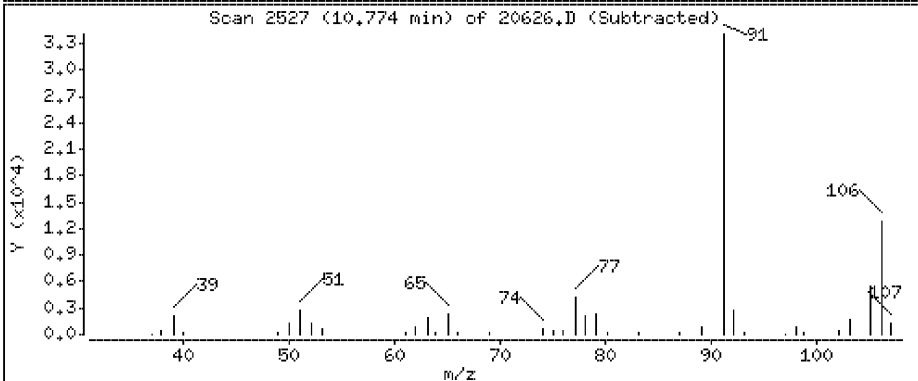
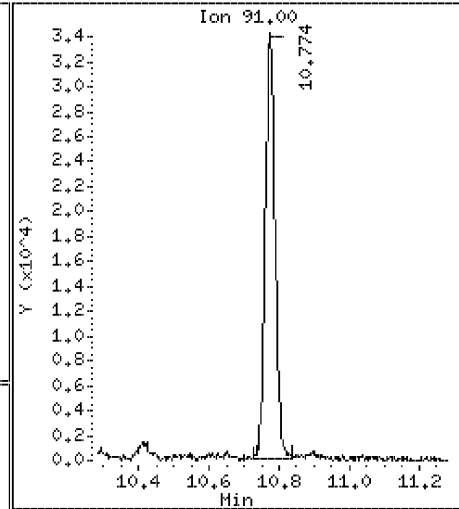
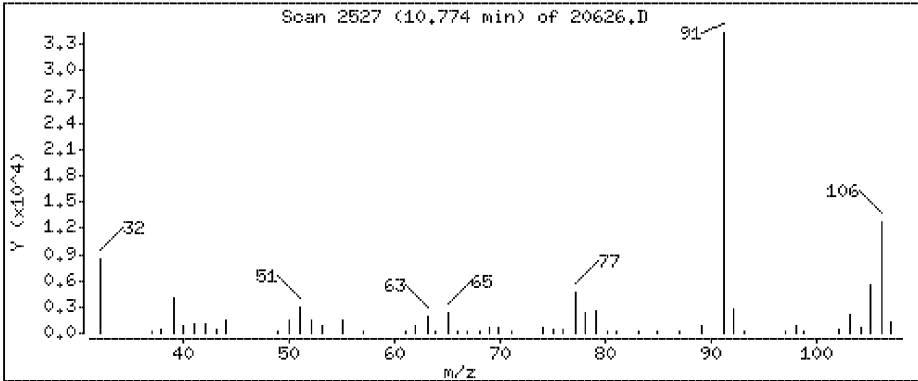
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

61 o-Xylene

Concentration: 1,37 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20626.D

Date : 26-JUL-2013 01:31

Client ID:

Instrument: 10airD.i

Sample Info:

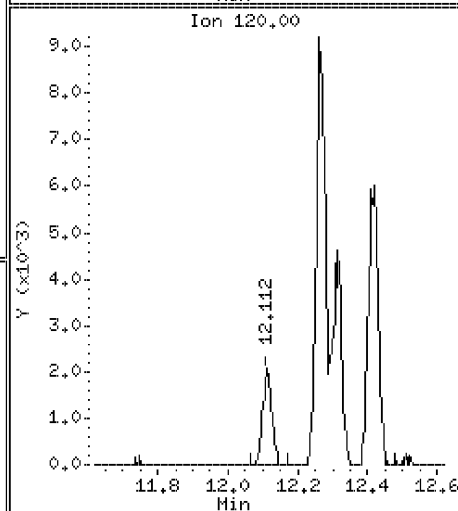
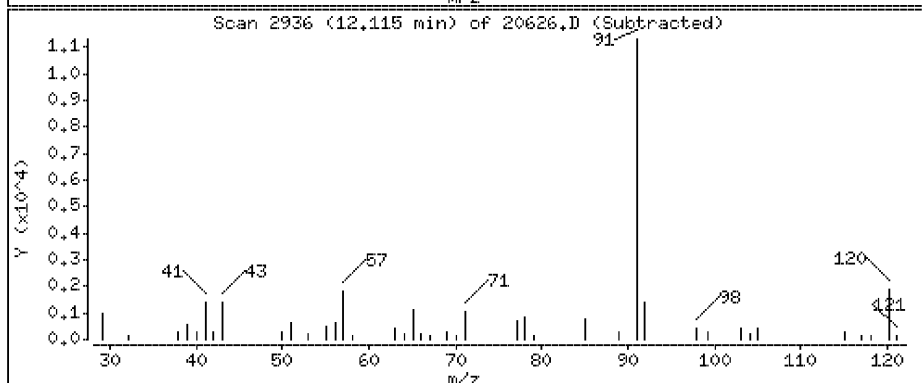
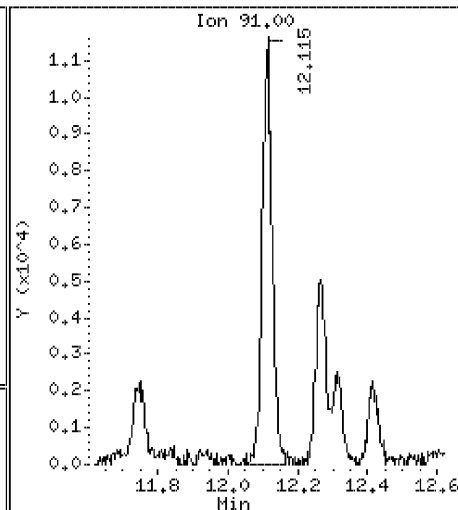
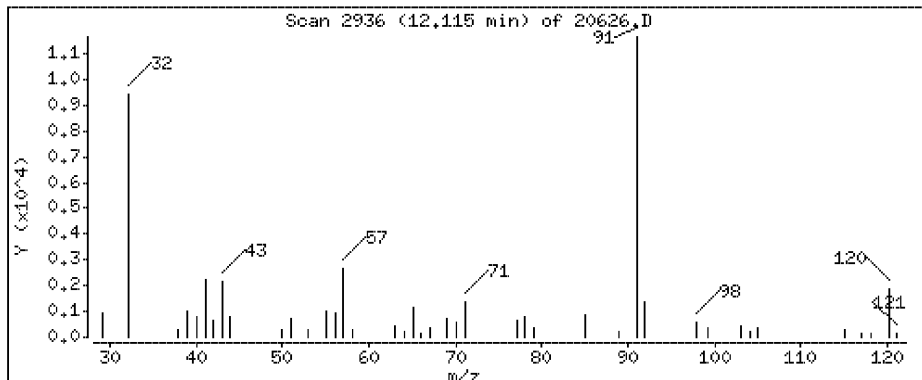
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

64 N-Propylbenzene

Concentration: 0.690 ppbv



Data File: \\192.168.10.12\chem\10airD,i\072513,b\20626.D

Date : 26-JUL-2013 01:31

Client ID:

Instrument: 10airD,i

Sample Info:

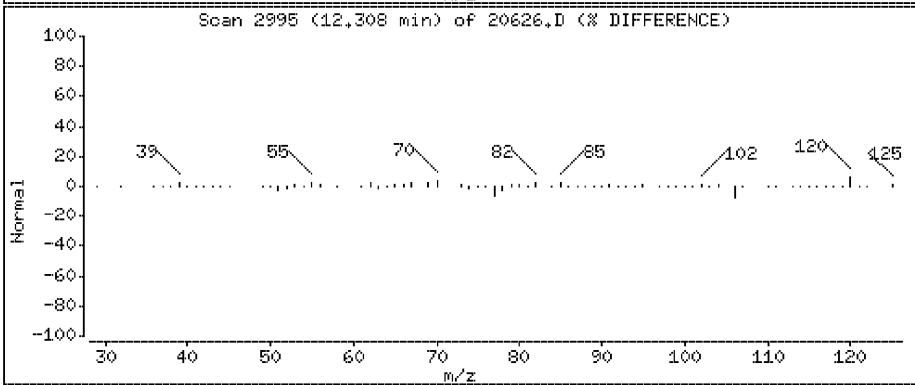
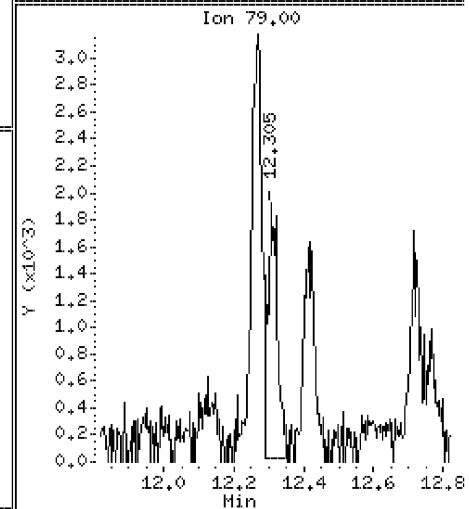
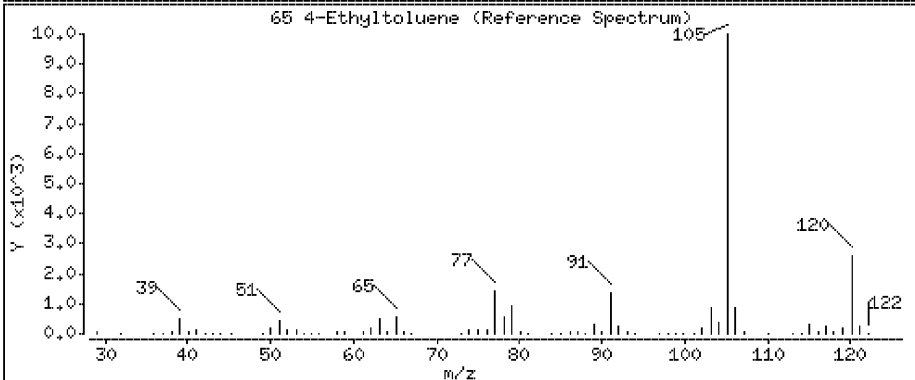
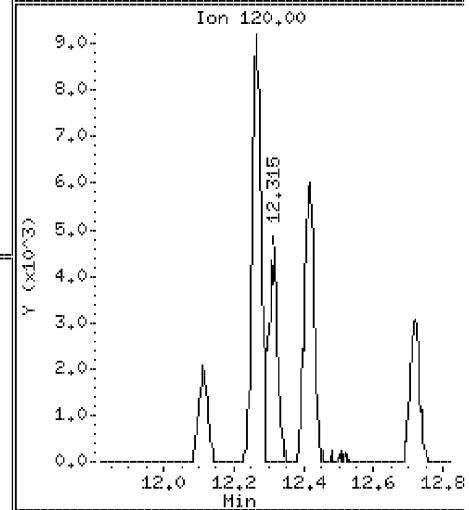
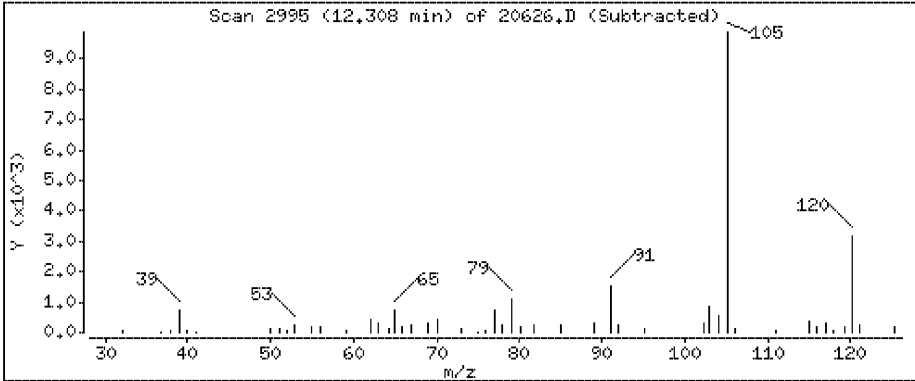
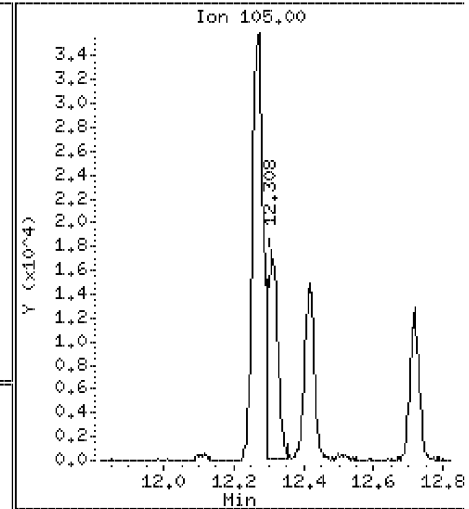
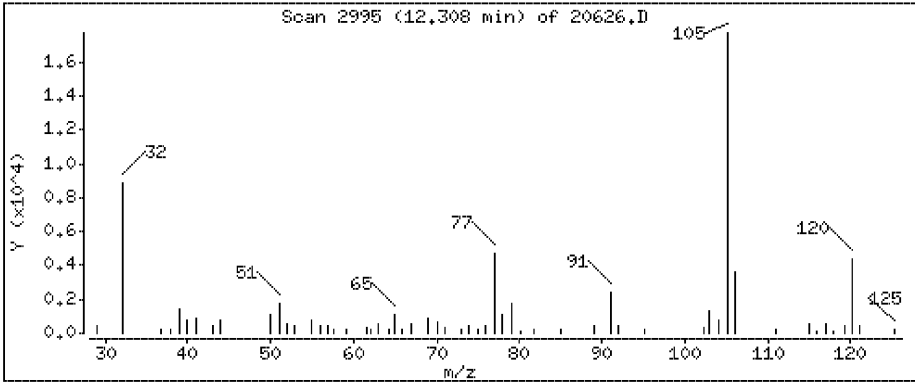
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

65 4-Ethyltoluene

Concentration: 0,976 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20626.D

Date : 26-JUL-2013 01:31

Client ID:

Instrument: 10airD.i

Sample Info:

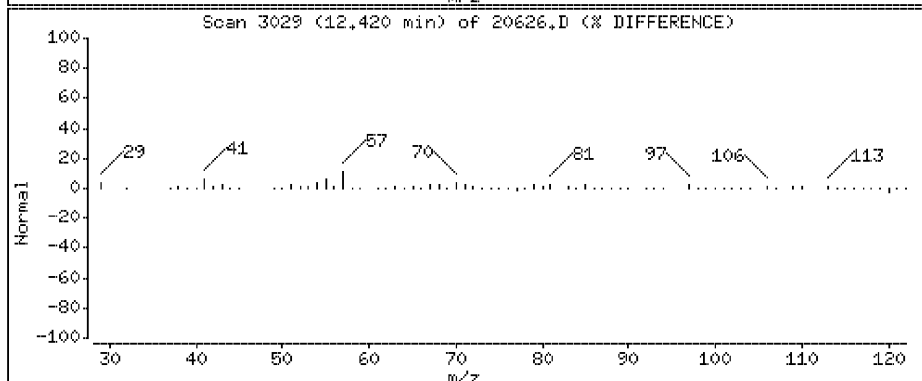
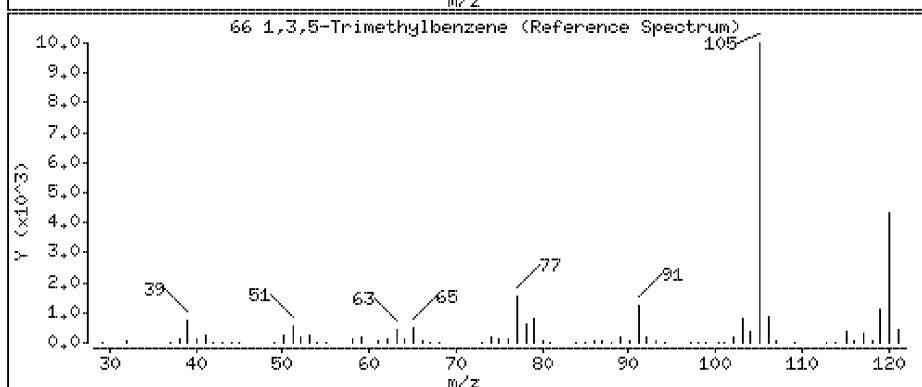
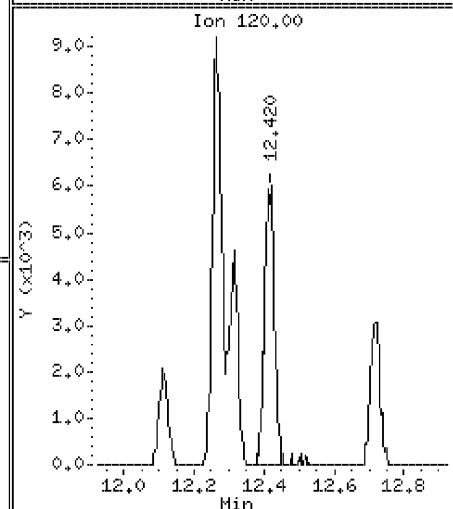
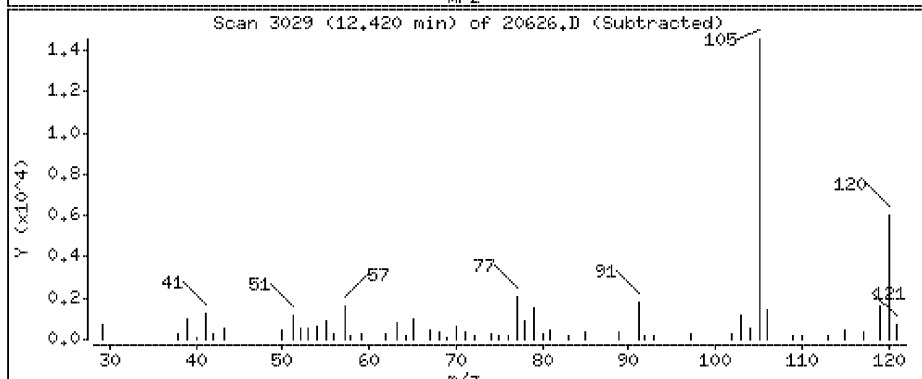
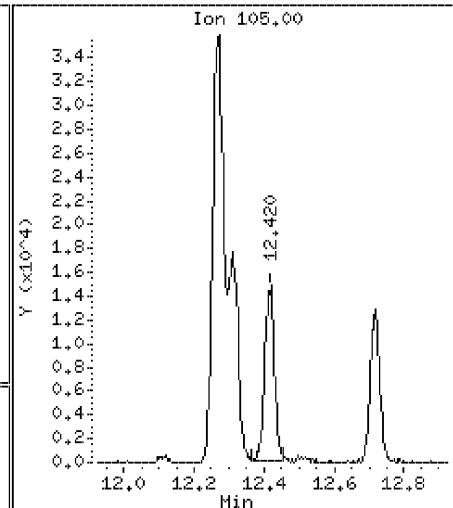
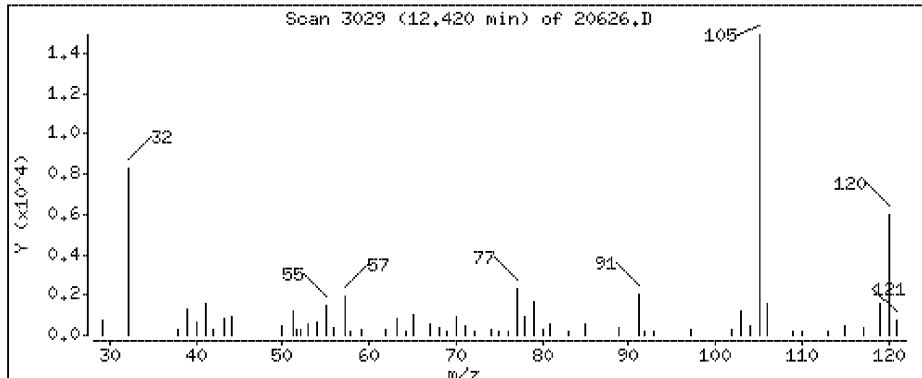
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

66 1,3,5-Trimethylbenzene

Concentration: 0.893 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20626.D

Date : 26-JUL-2013 01:31

Client ID:

Instrument: 10airD.i

Sample Info:

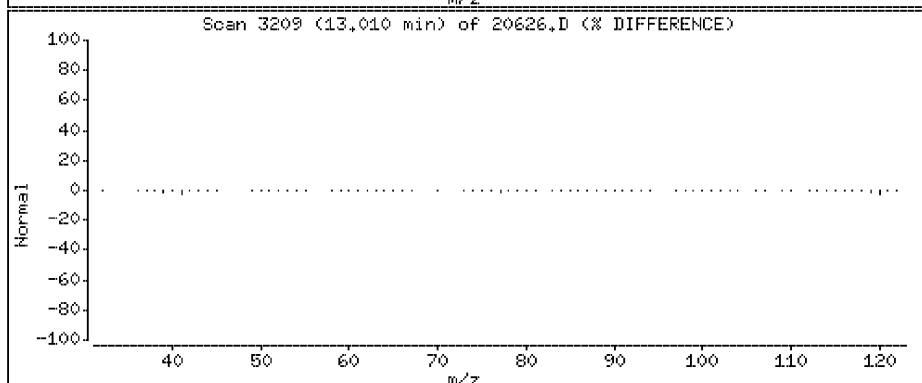
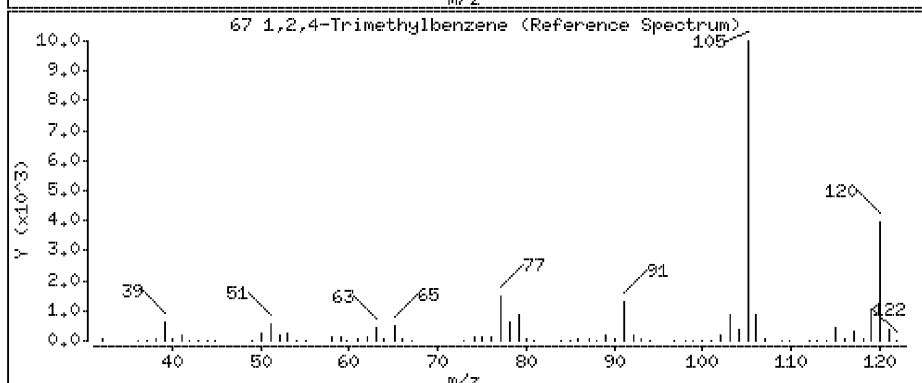
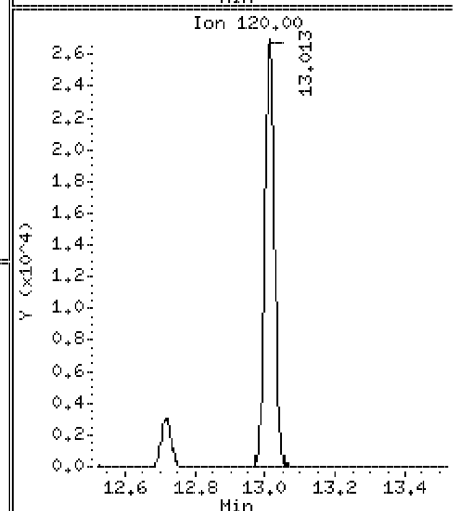
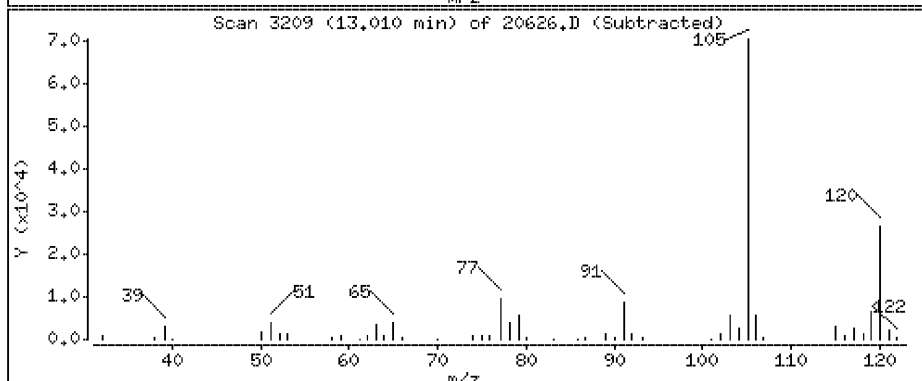
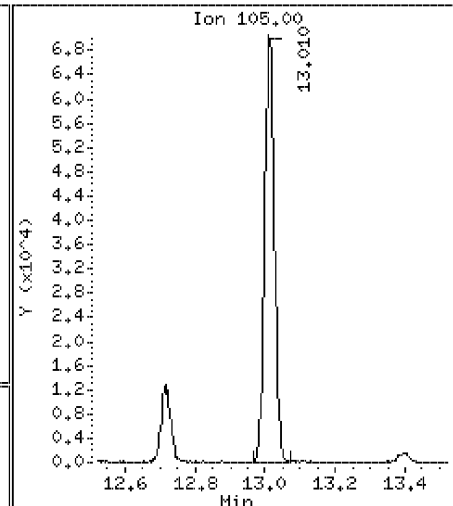
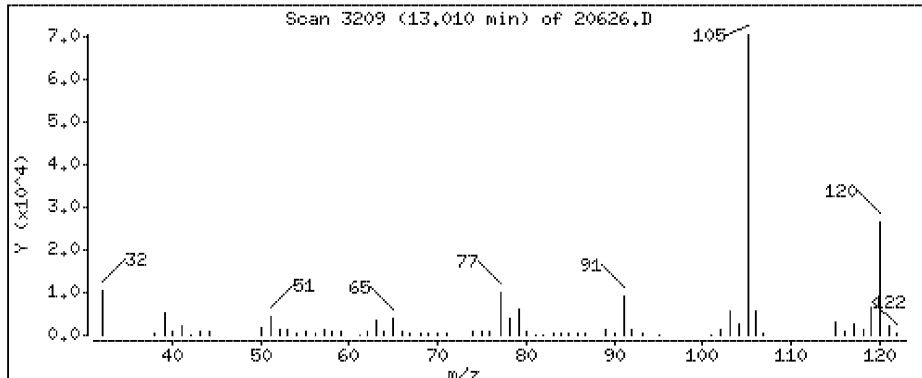
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

67 1,2,4-Trimethylbenzene

Concentration: 2.78 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20626.D

Date : 26-JUL-2013 01:31

Client ID:

Instrument: 10airD.i

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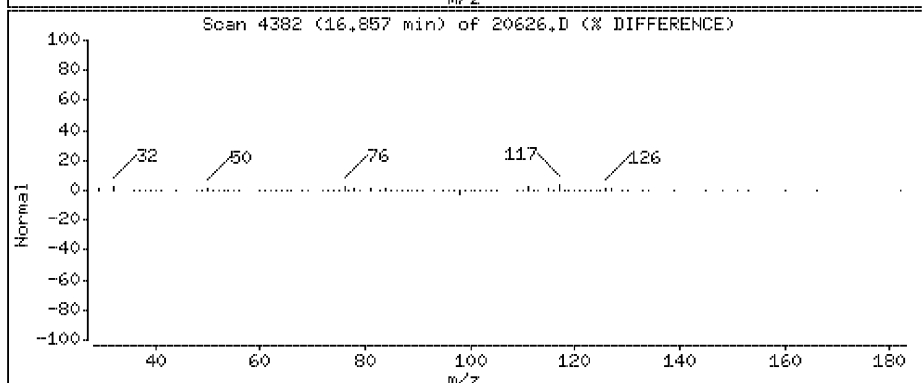
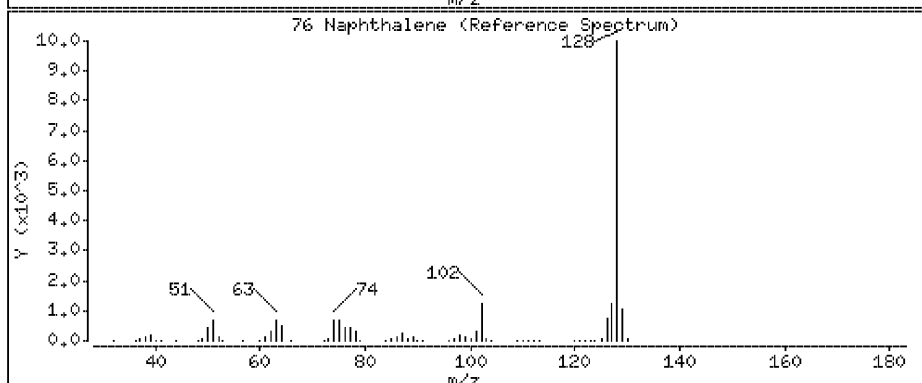
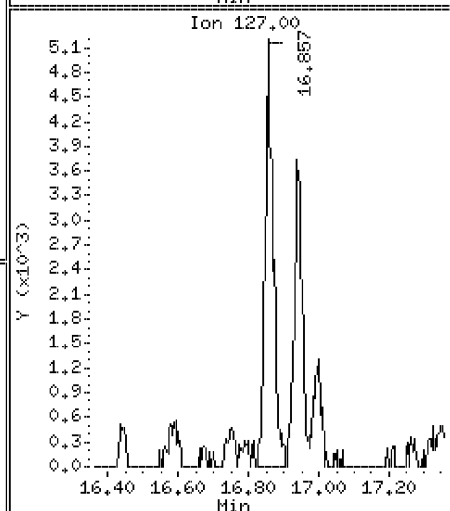
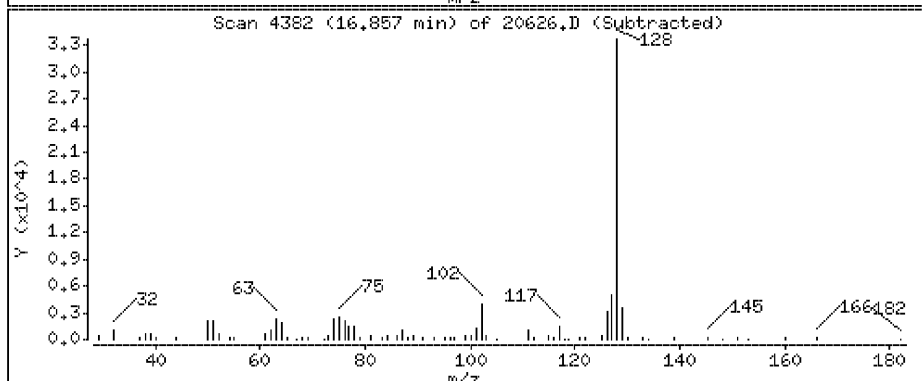
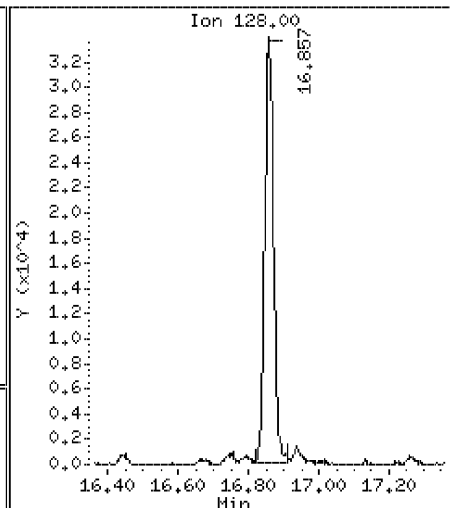
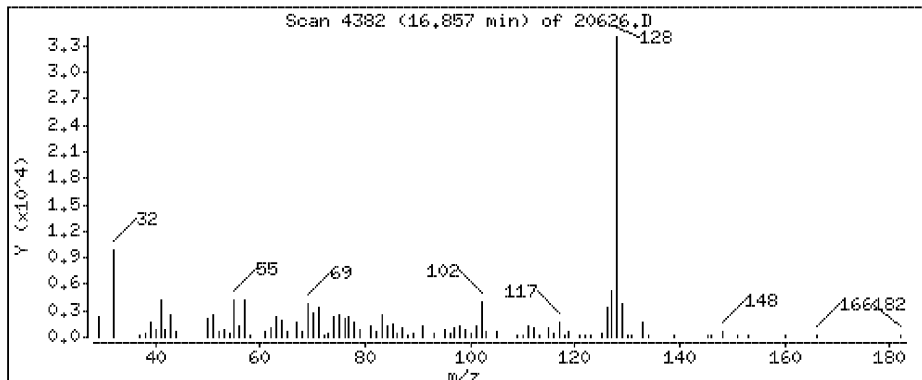
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

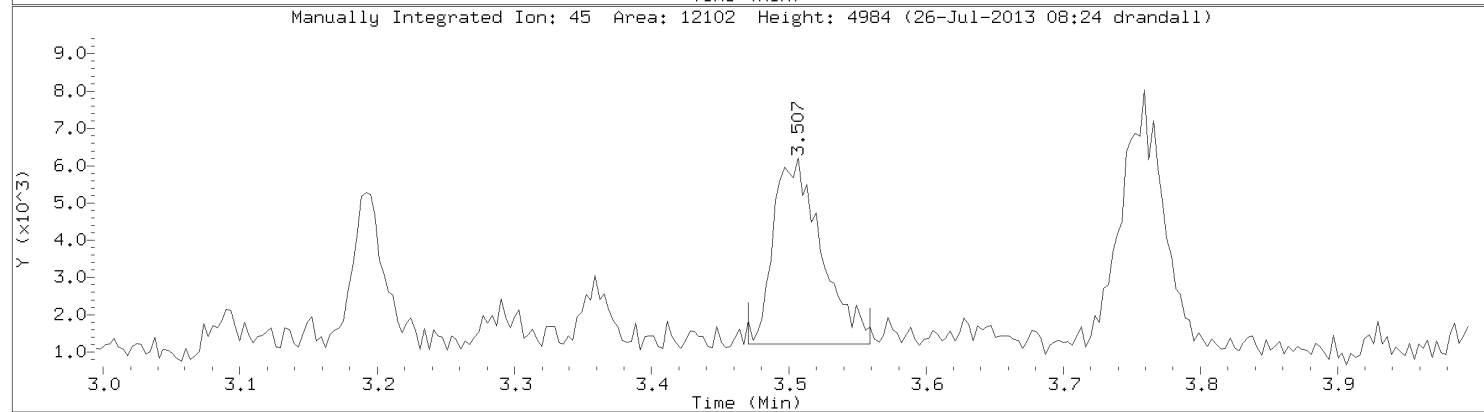
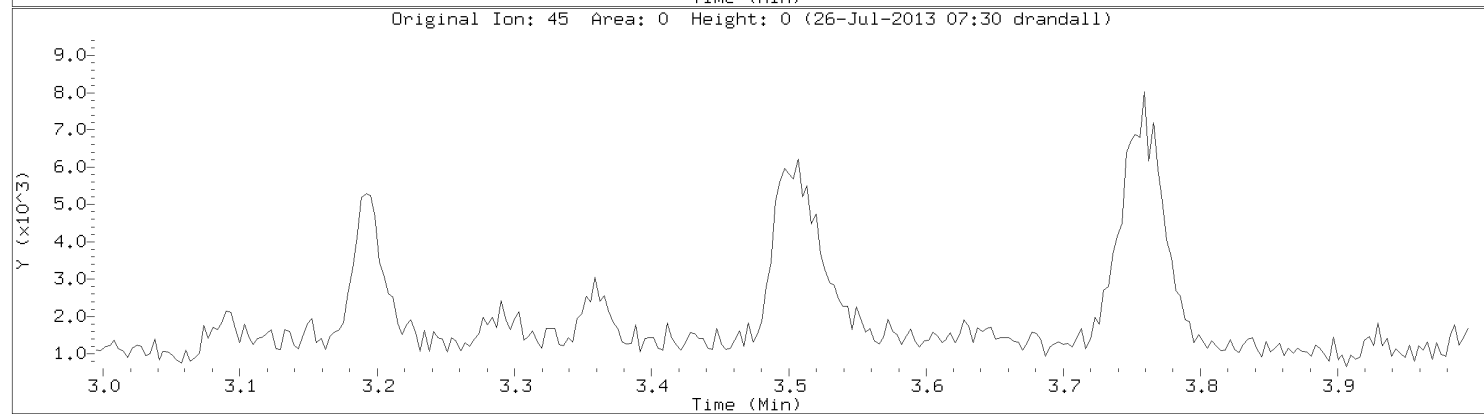
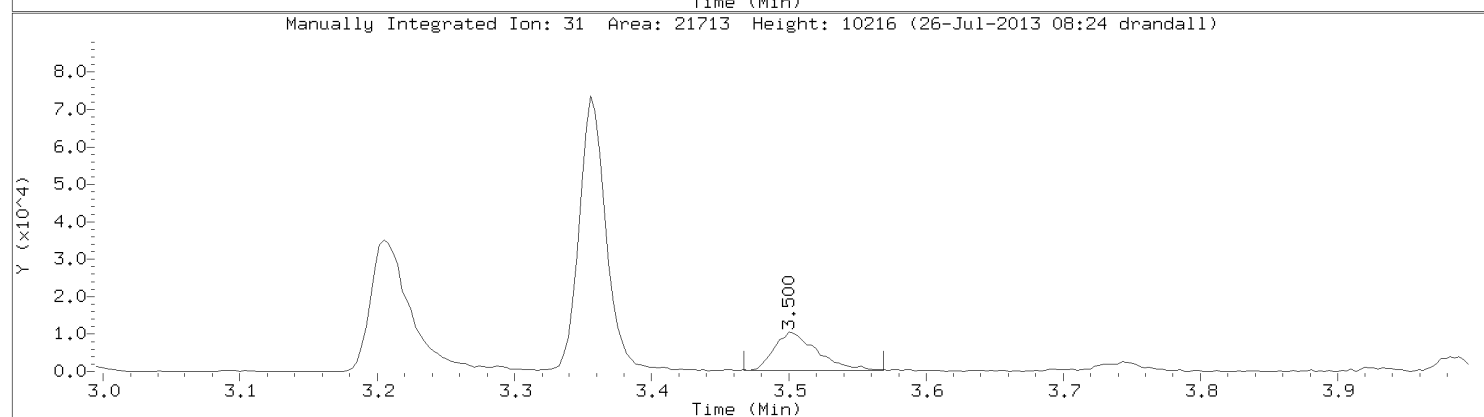
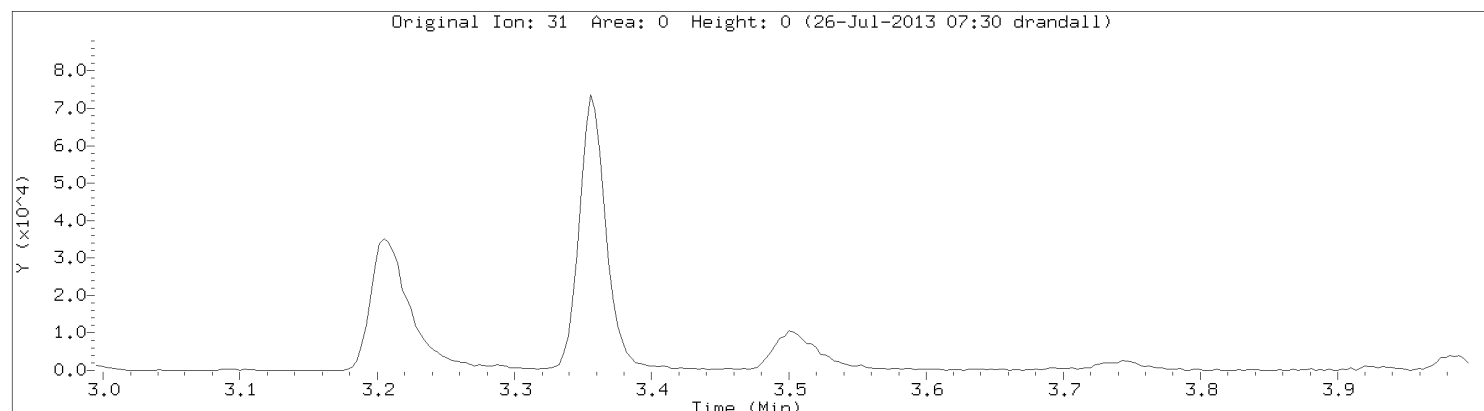
76 Naphthalene

Concentration: 2.54 ppbv



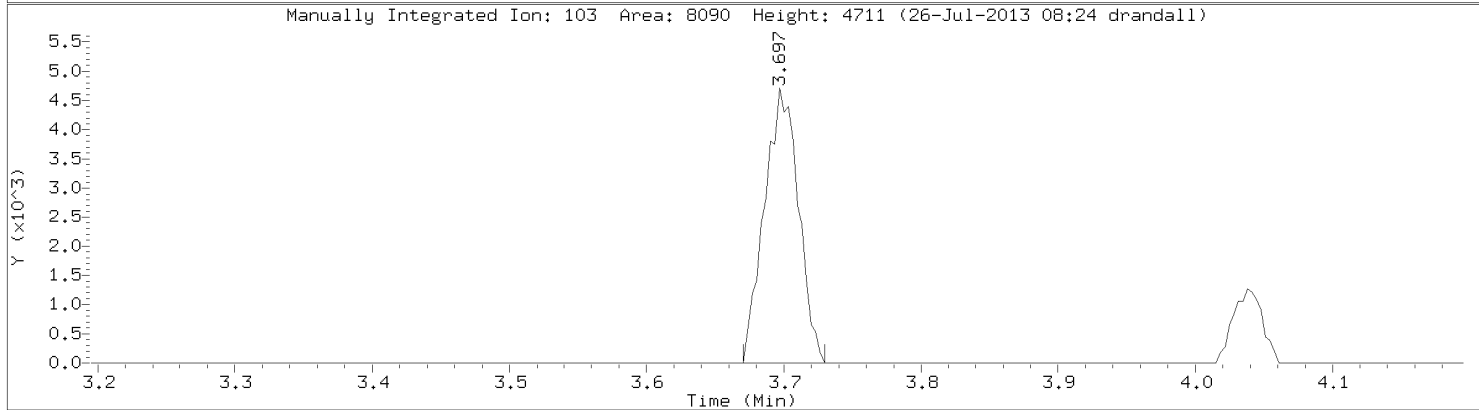
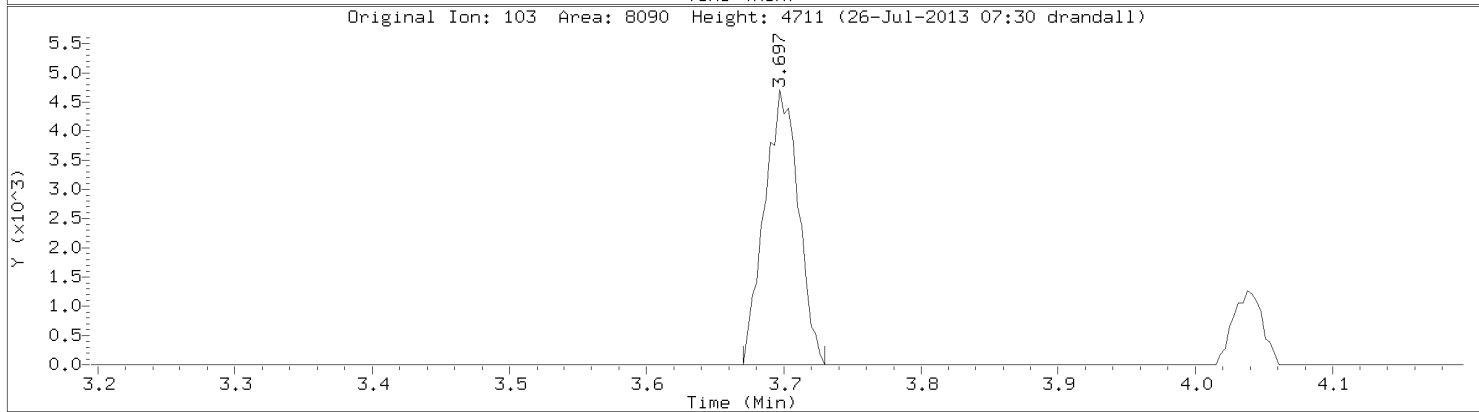
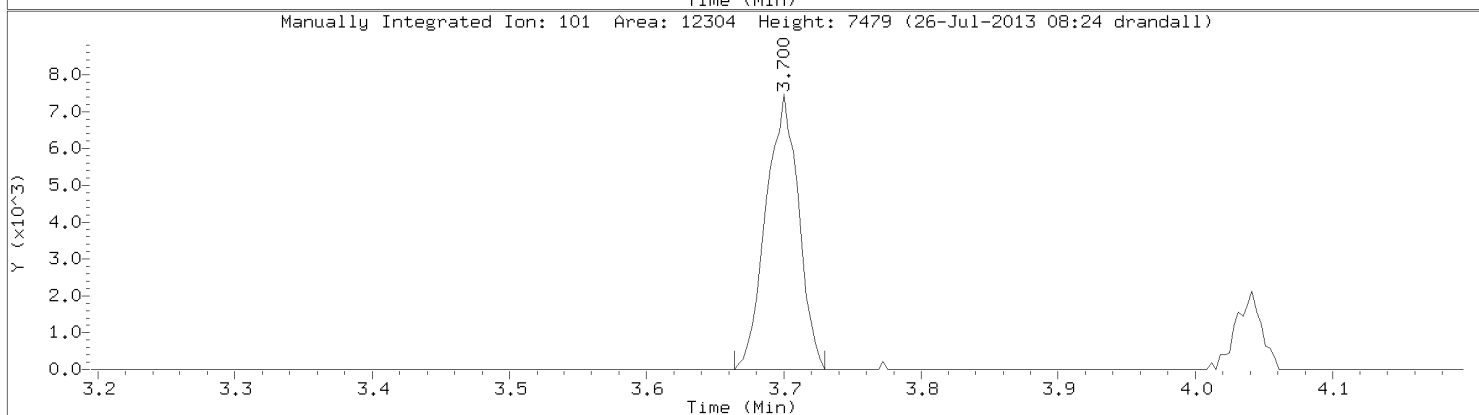
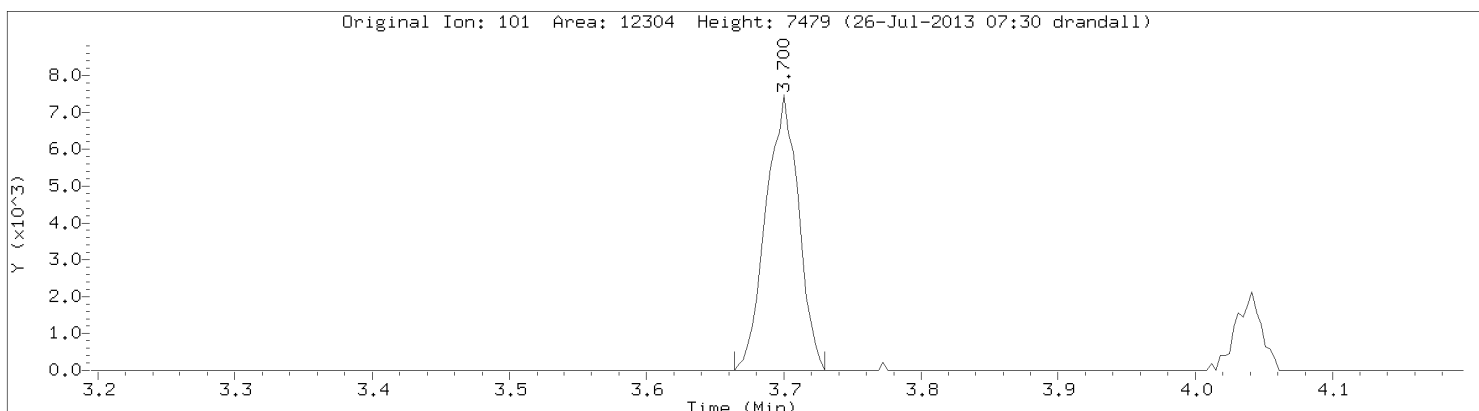
Data File: \\192.168.10.12\chem\10airD.i\072513.b\20626.d
Injection Date: 26-JUL-2013 01:31
Instrument: 10airD.i
Lab Sample ID: 10236207008

Compound: Ethanol
CAS Number: 64-17-5

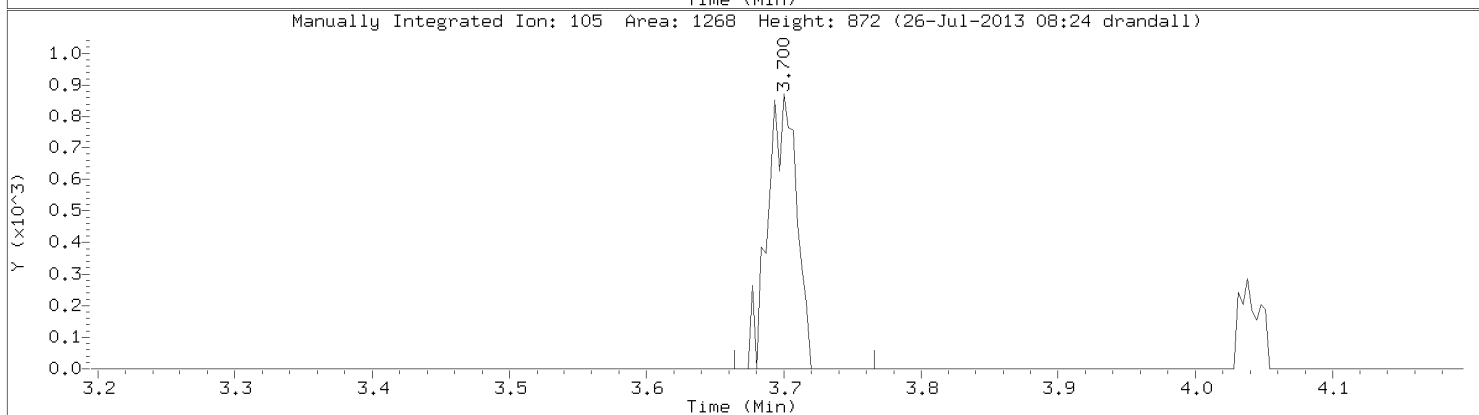
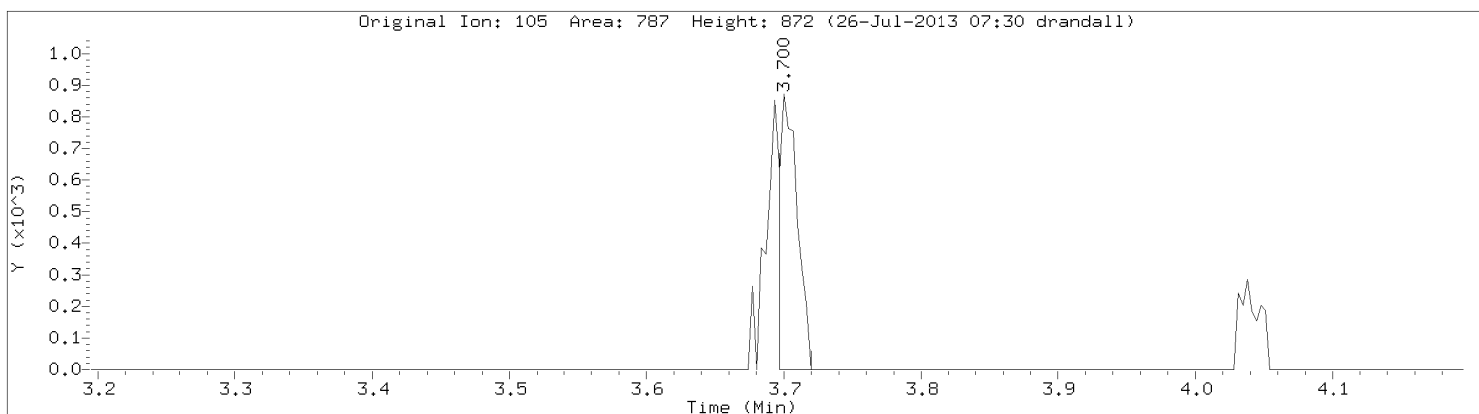


Data File: \\192.168.10.12\chem\10airD.i\072513.b\20626.d
Injection Date: 26-JUL-2013 01:31
Instrument: 10airD.i
Lab Sample ID: 10236207008

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

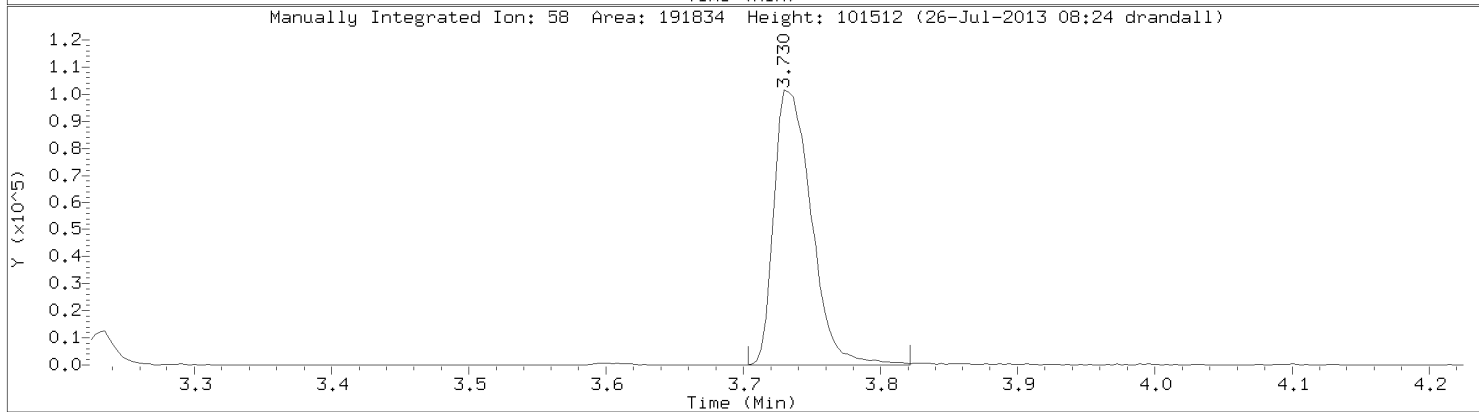
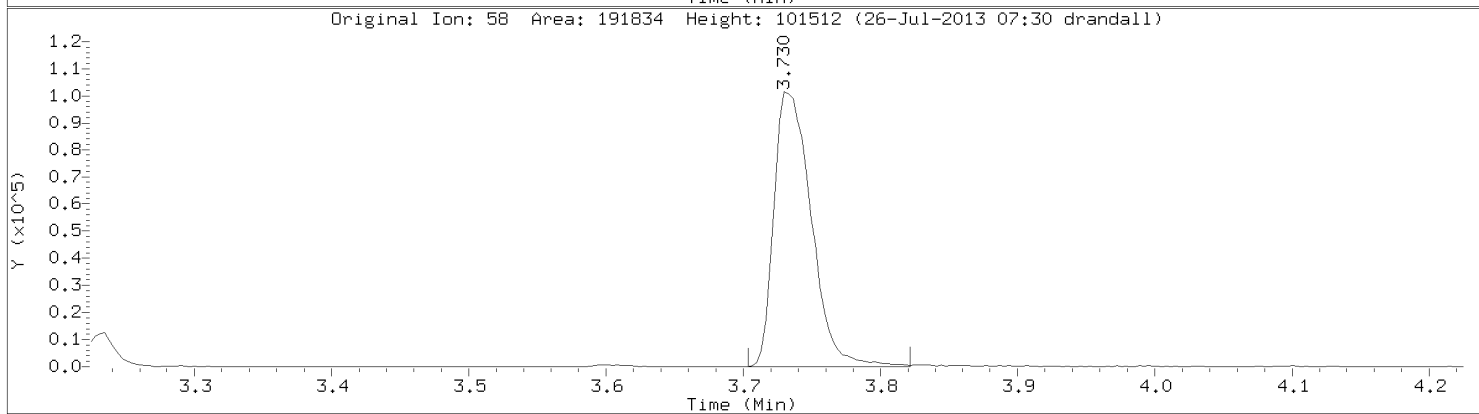
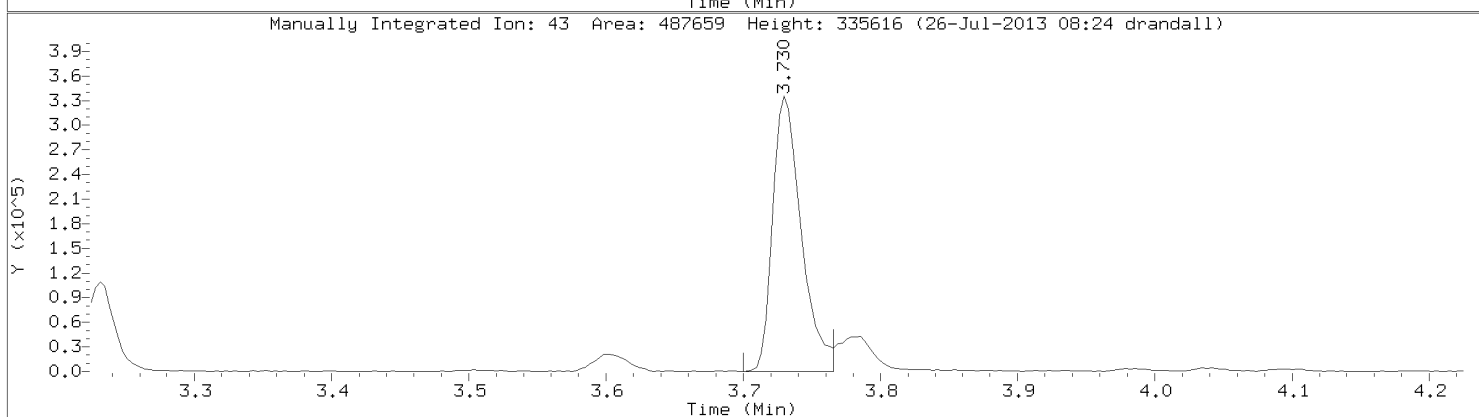
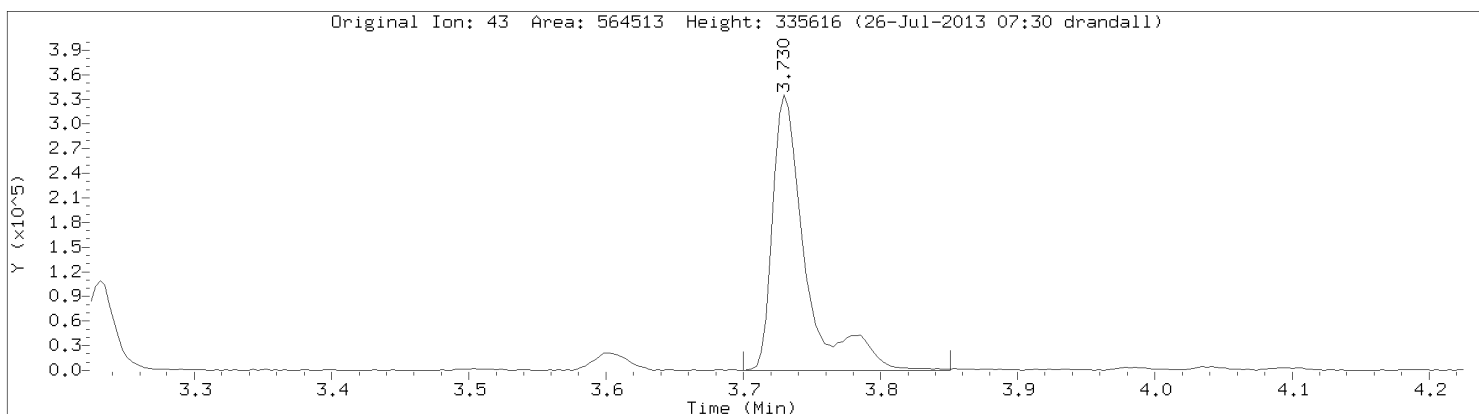


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Injection Date: 26-JUL-2013 01:31
Instrument: 10airD.i
Lab Sample ID: 10236207008



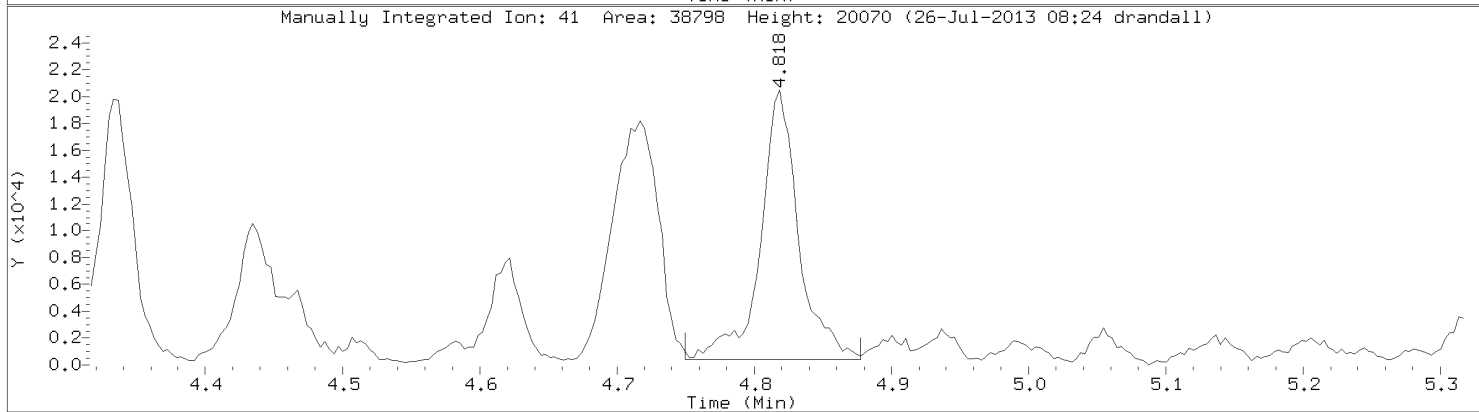
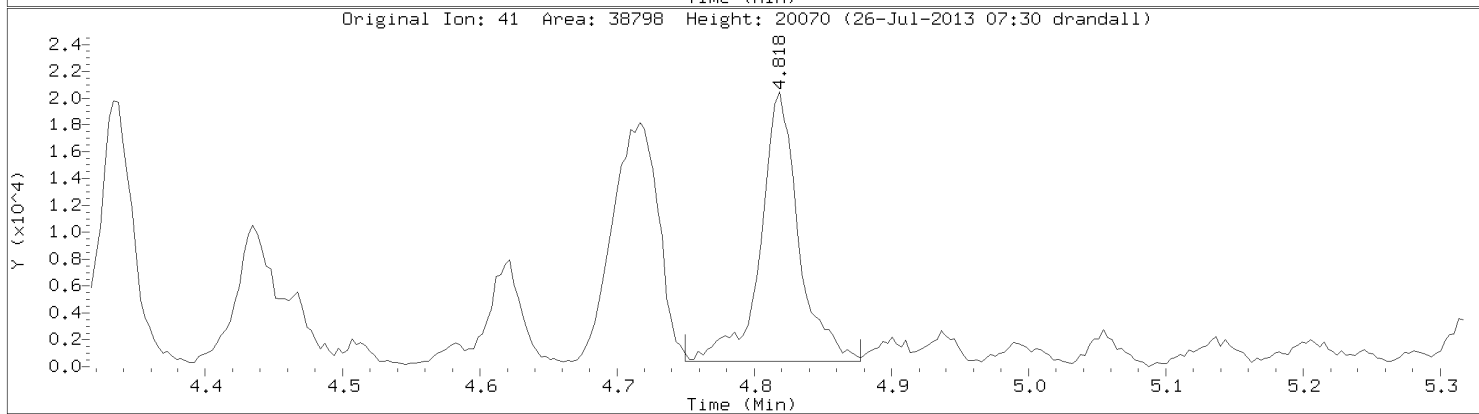
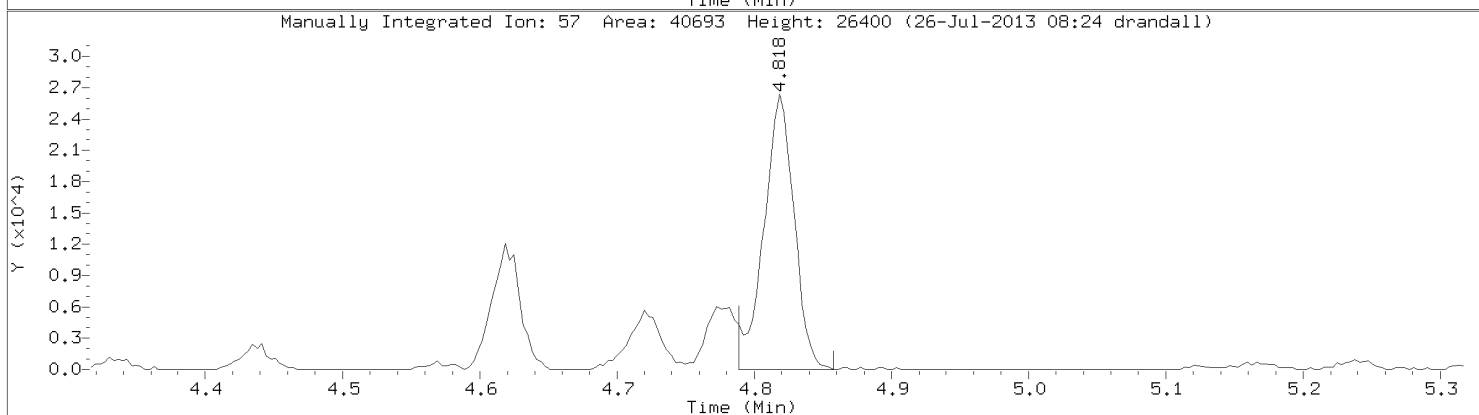
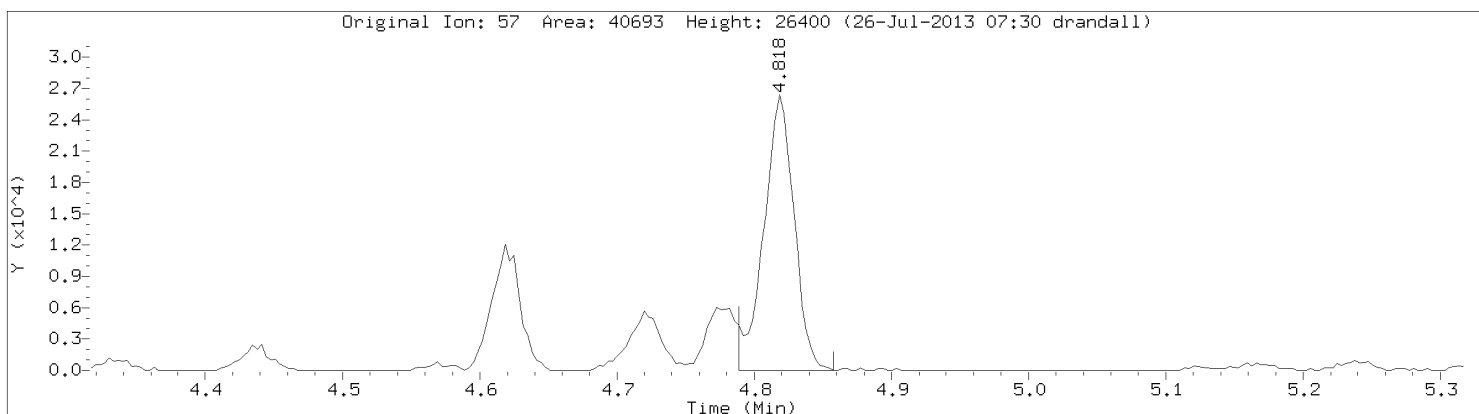
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Injection Date: 26-JUL-2013 01:31
Instrument: 10airD.i
Lab Sample ID: 10236207008

Compound: Acetone
CAS Number: 67-64-1

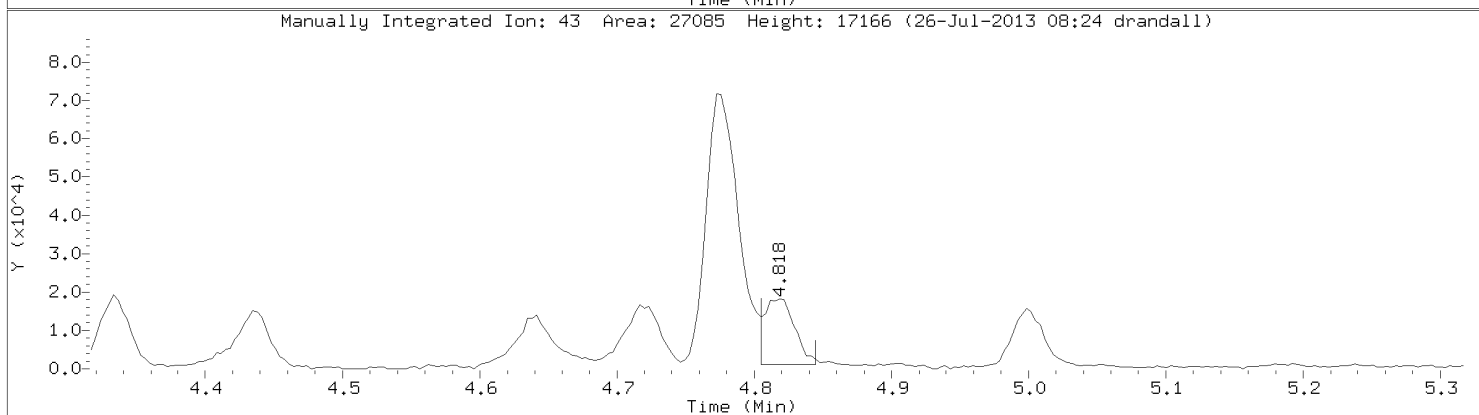
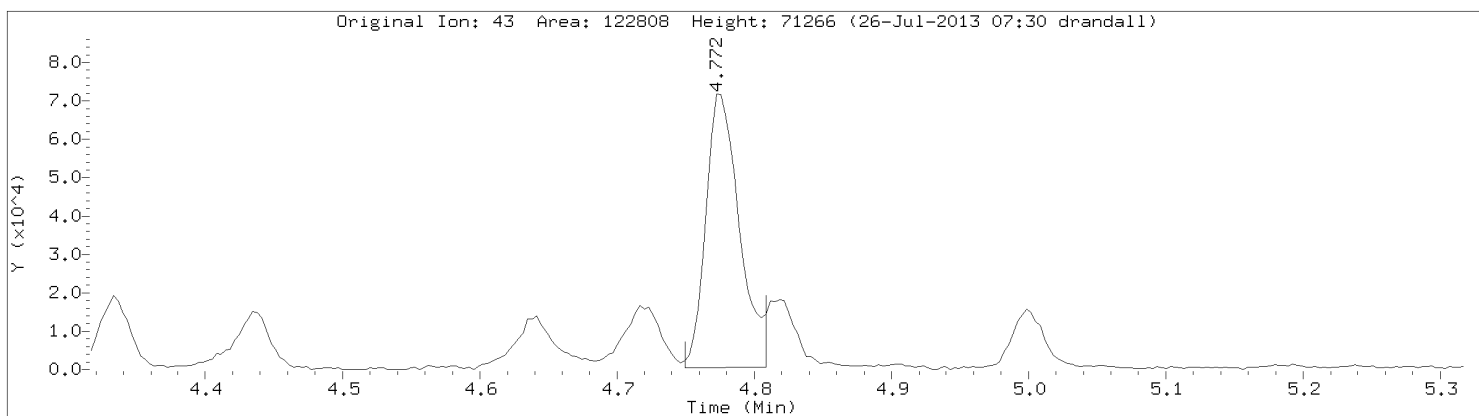


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Injection Date: 26-JUL-2013 01:31
Instrument: 10airD.i
Lab Sample ID: 10236207008

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

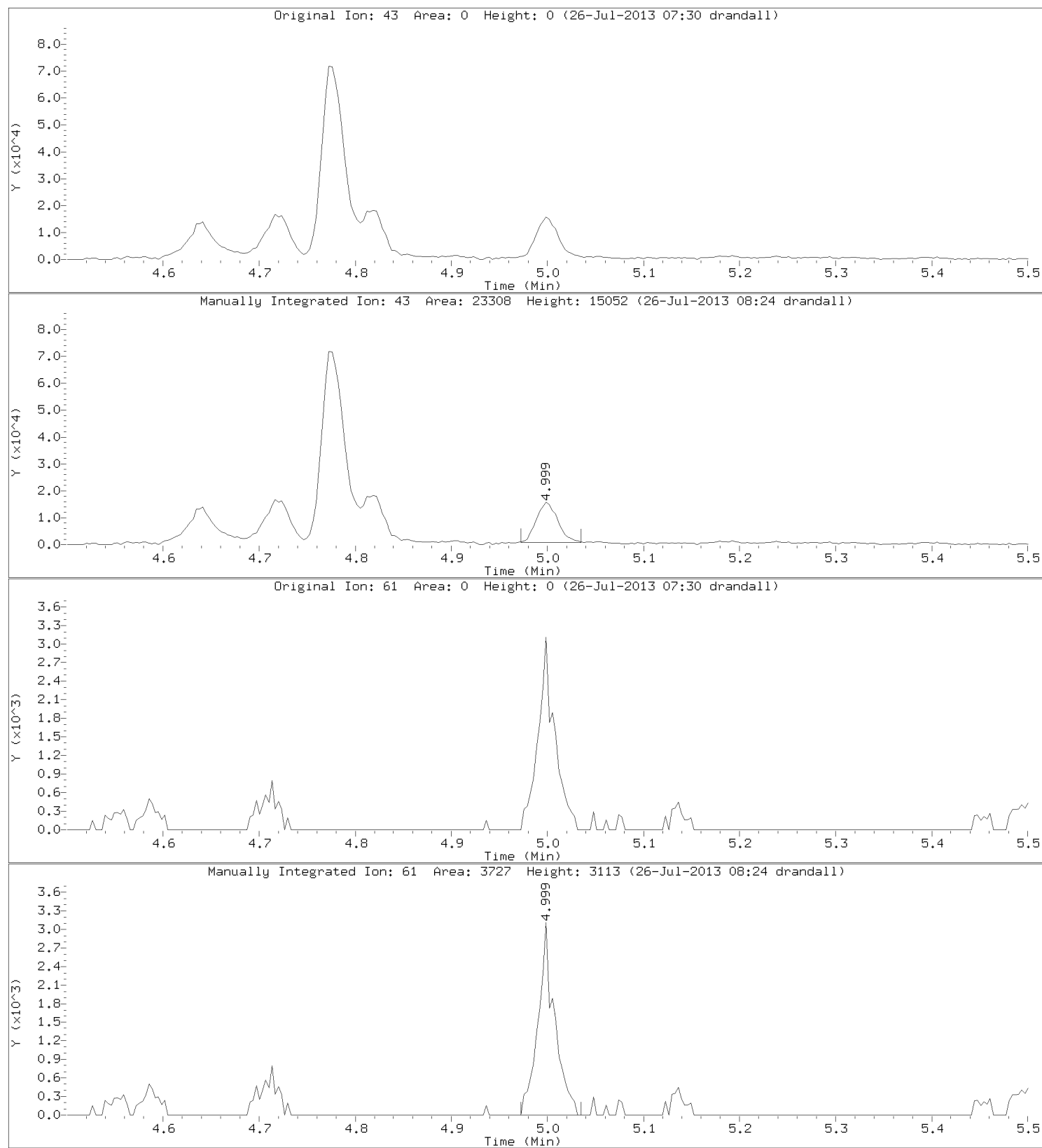


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Lab Sample ID: 10236207008

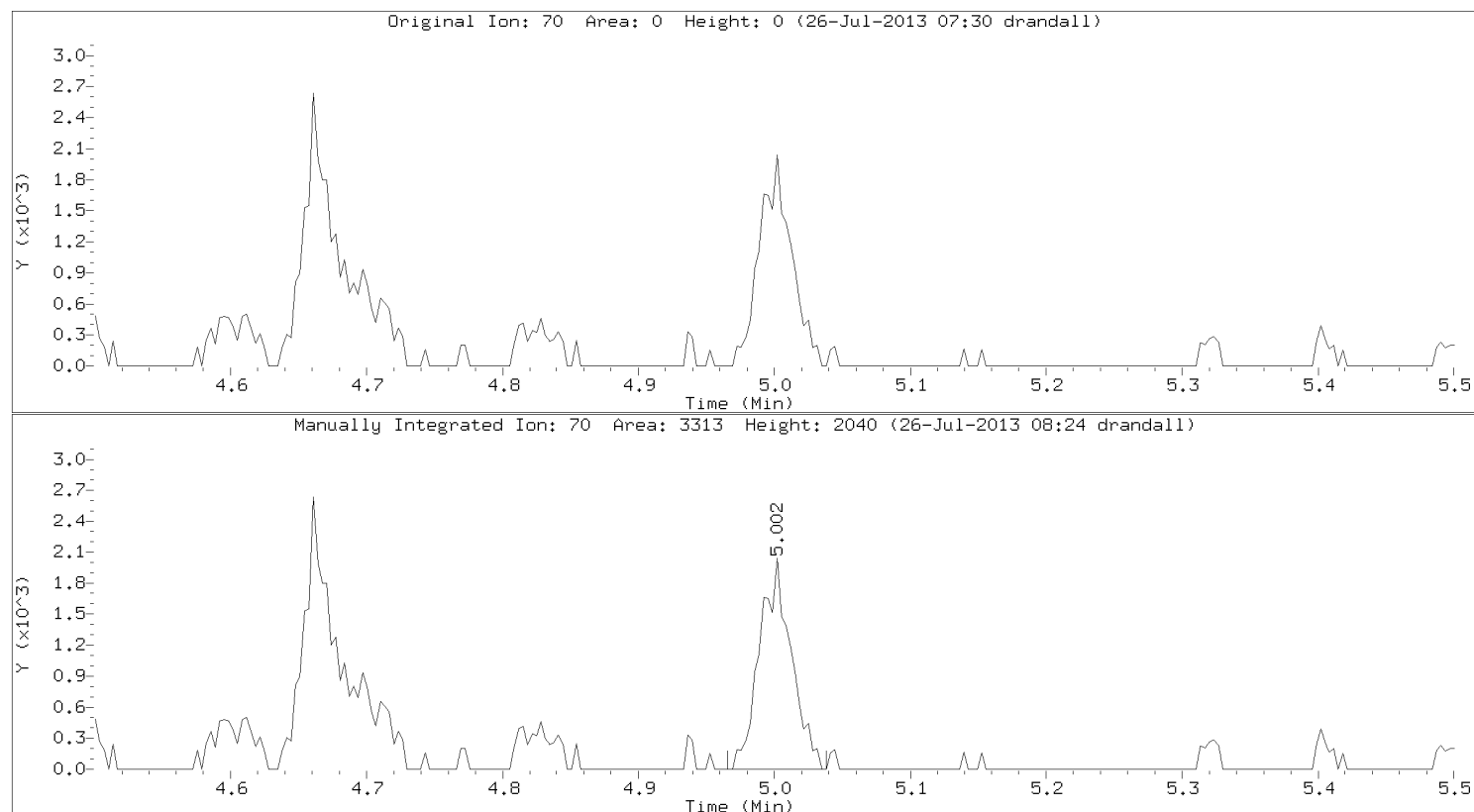


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Injection Date: 26-JUL-2013 01:31
Instrument: 10airD.i
Lab Sample ID: 10236207008

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

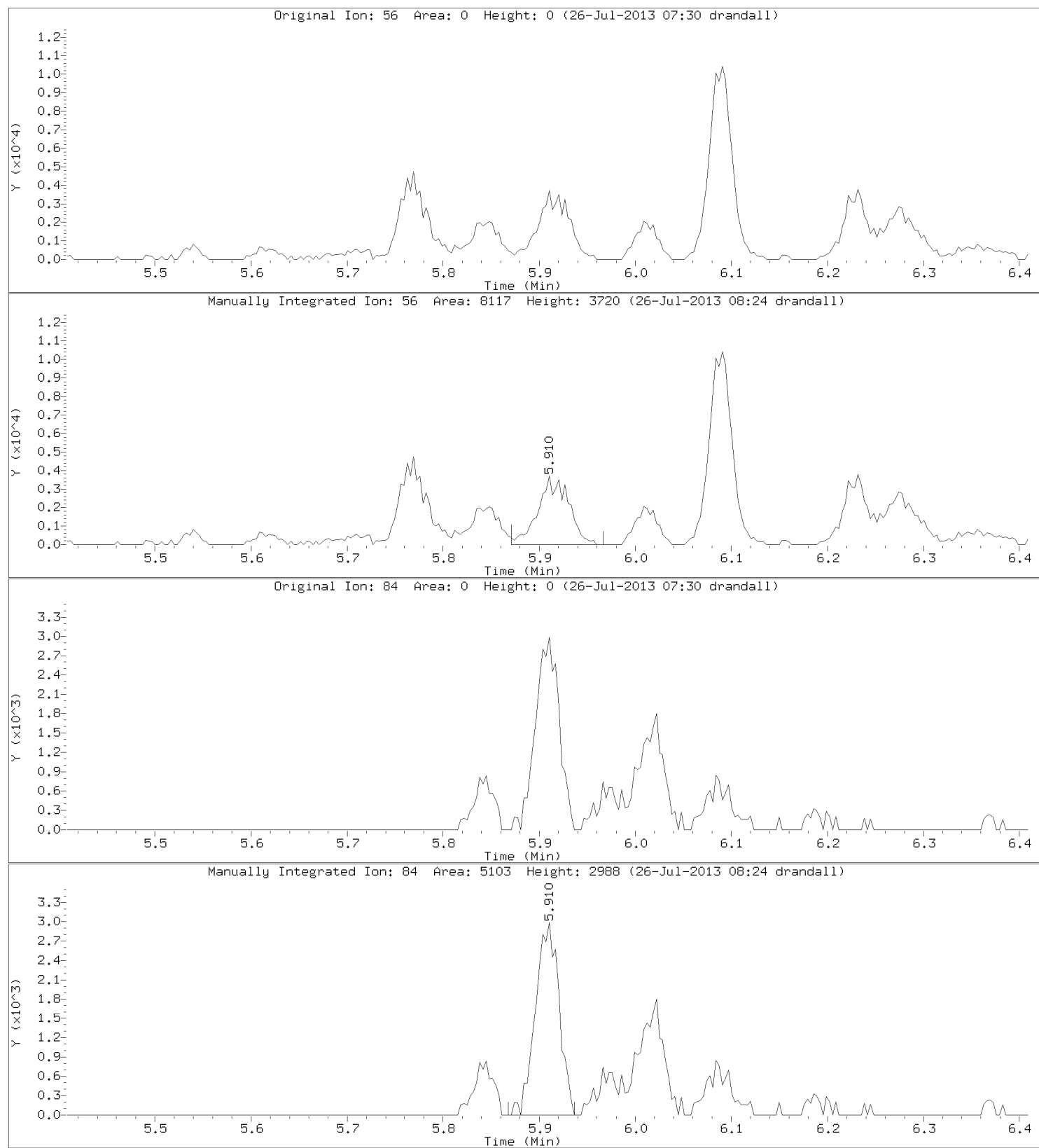


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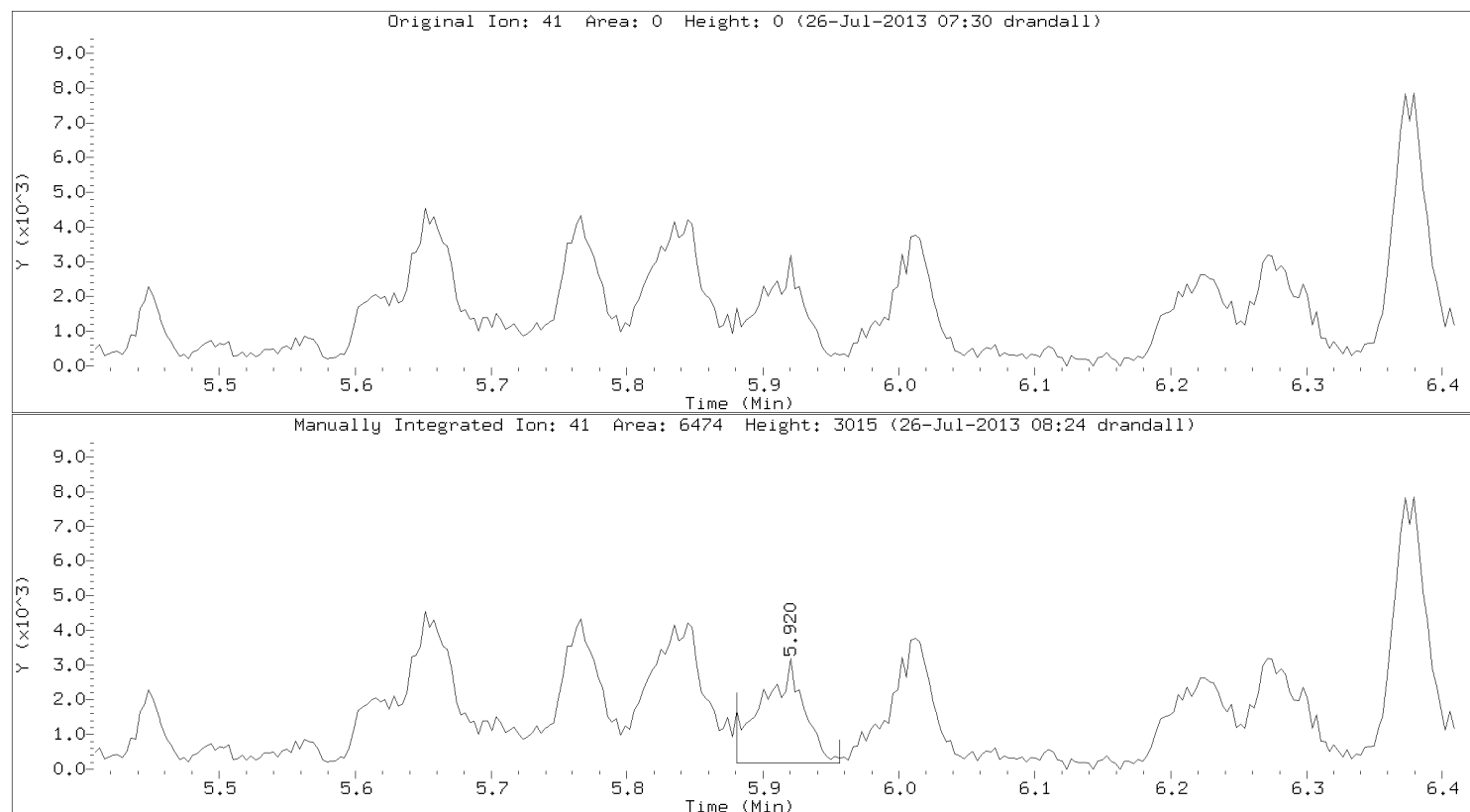


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Instrument: 10airD.i
Lab Sample ID: 10236207008

Compound: Cyclohexane
CAS Number: 110-82-7

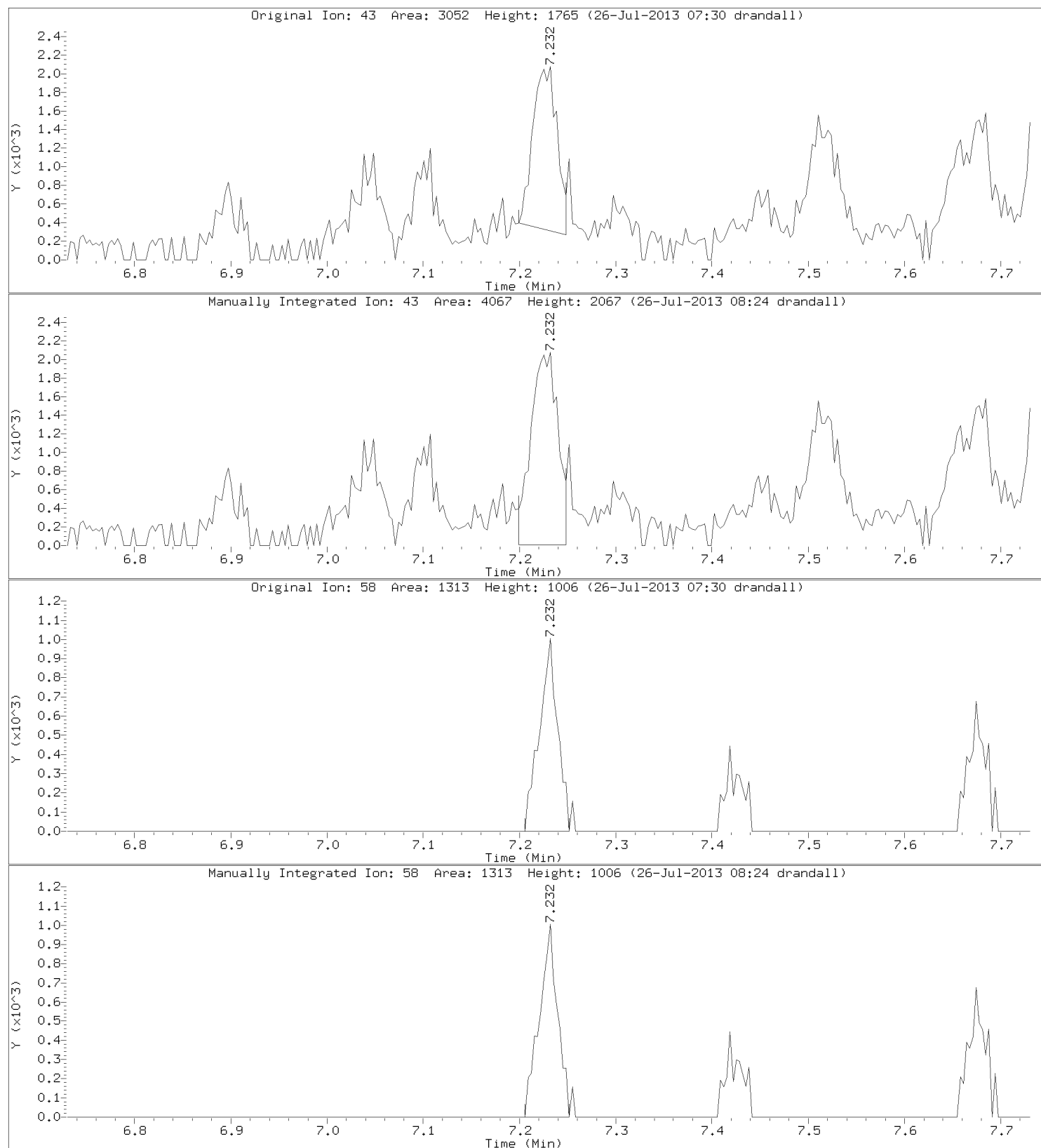


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Lab Sample ID: 10236207008

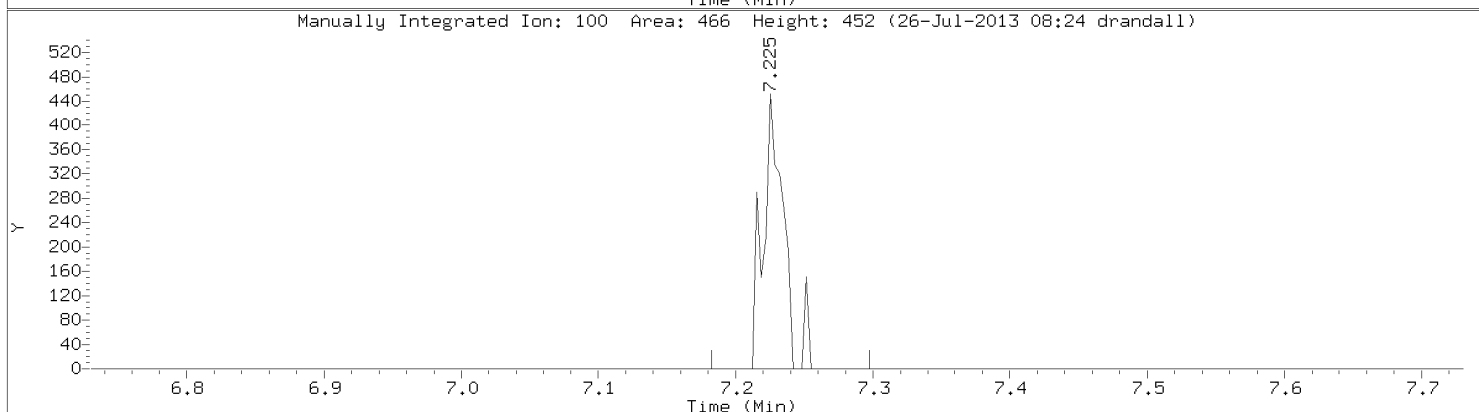
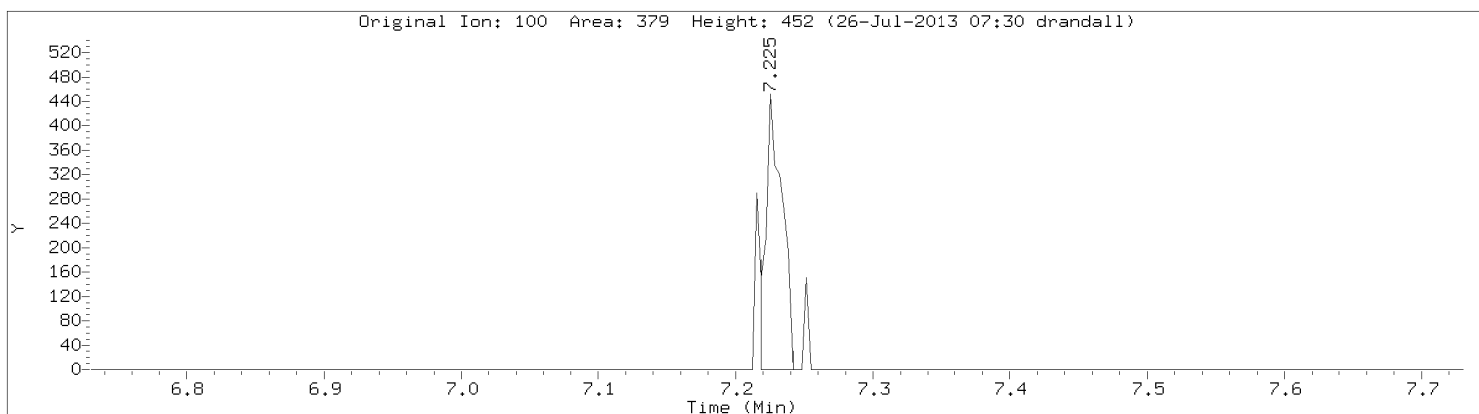


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Injection Date: 26-JUL-2013 01:31
Instrument: 10airD.i
Lab Sample ID: 10236207008

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

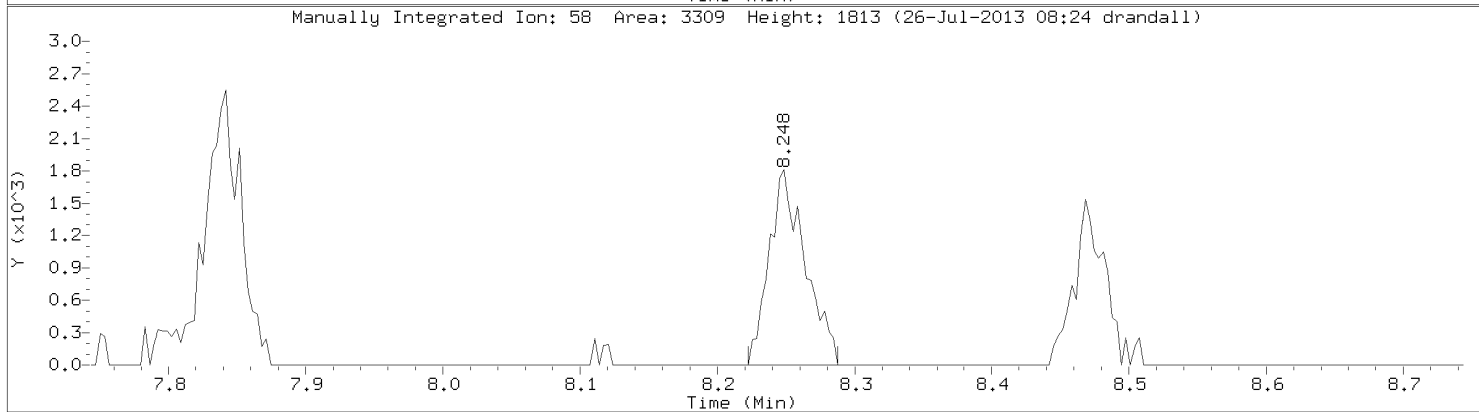
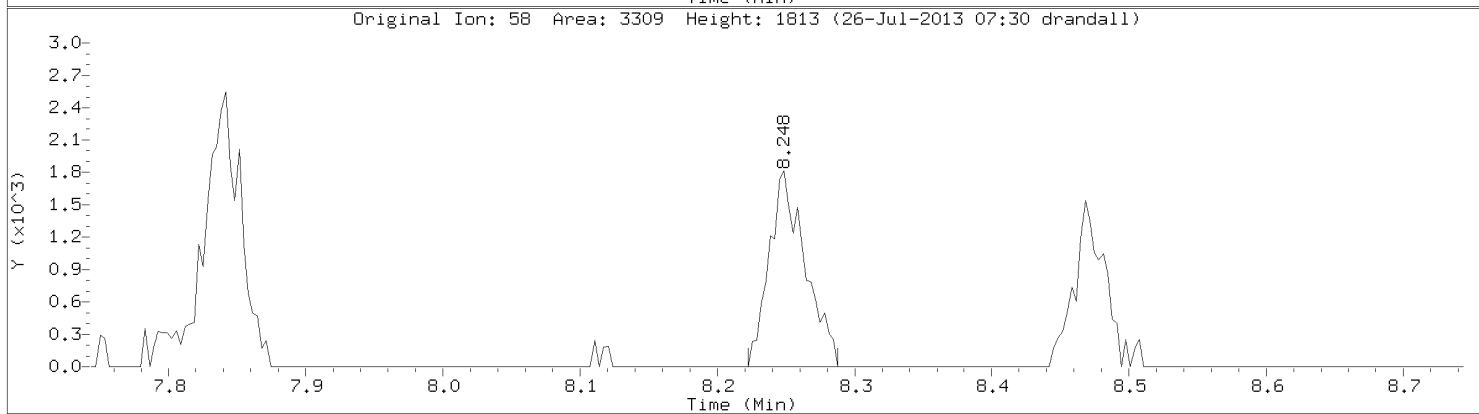
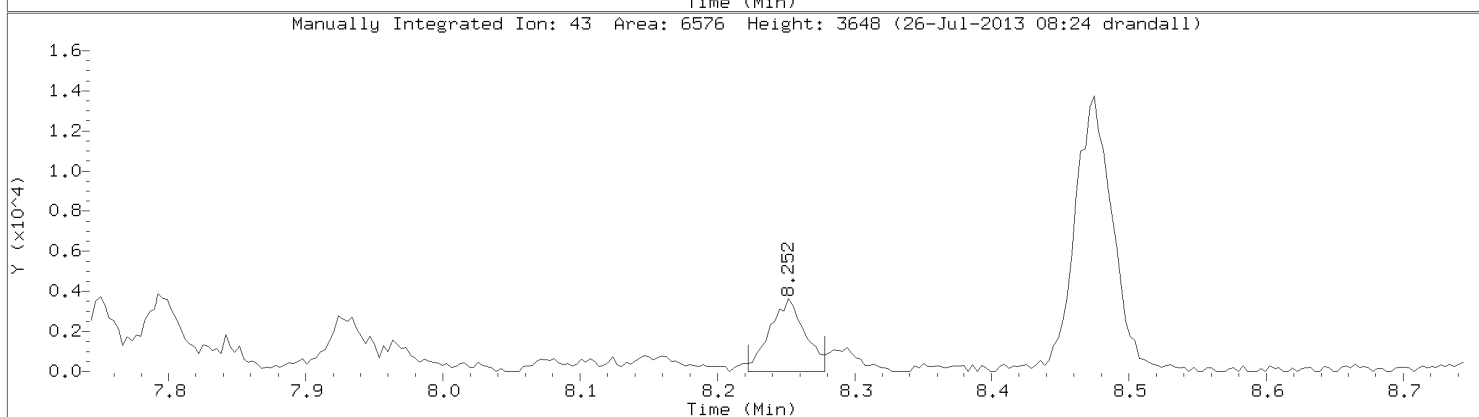
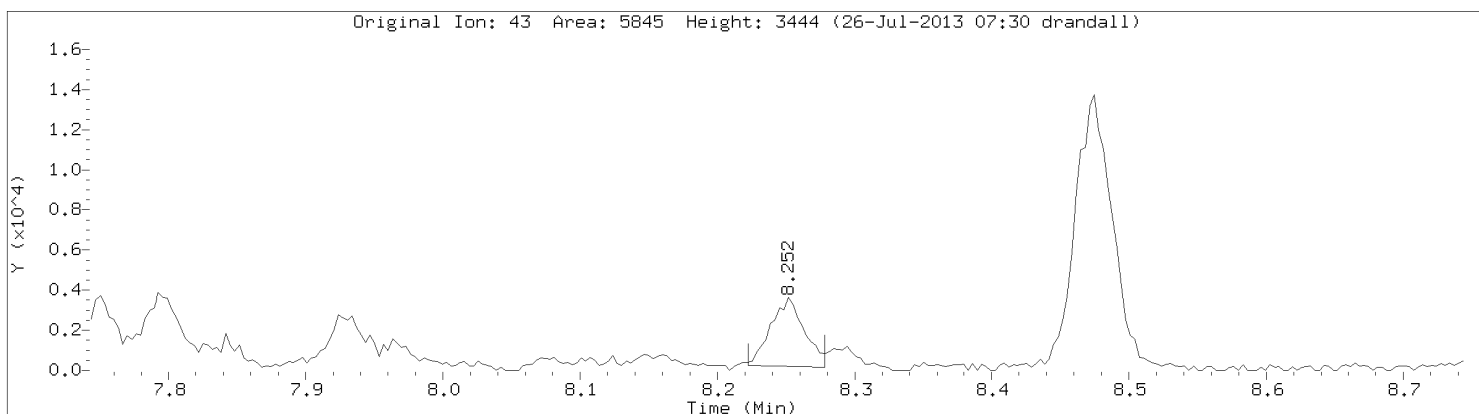


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Instrument: 10airD.i
Lab Sample ID: 10236207008



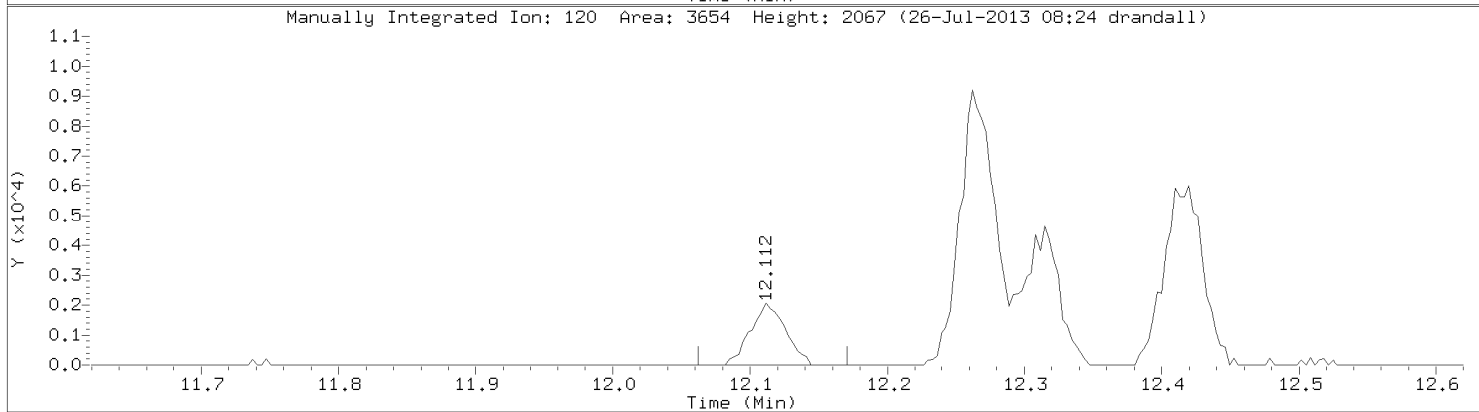
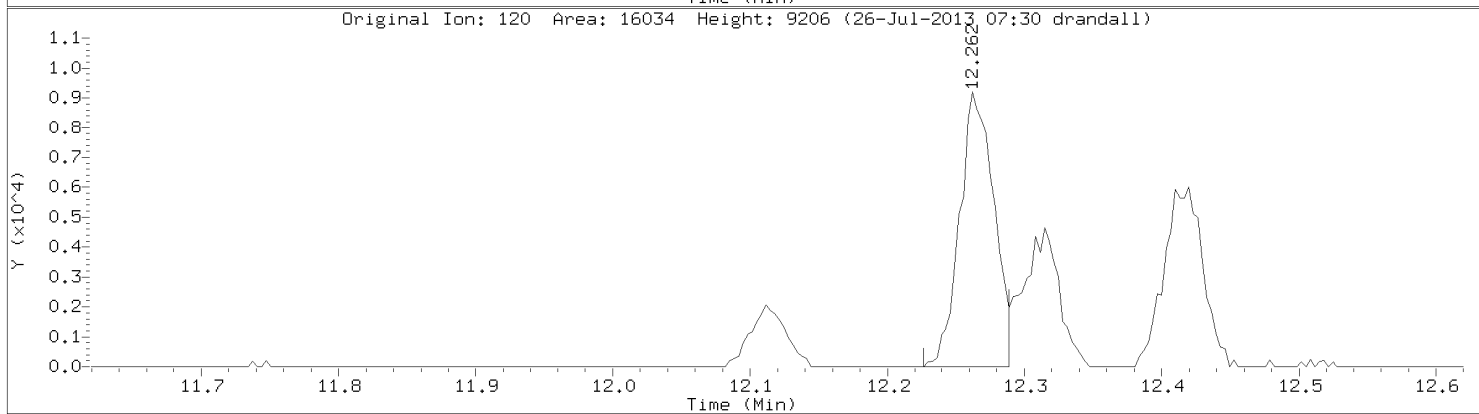
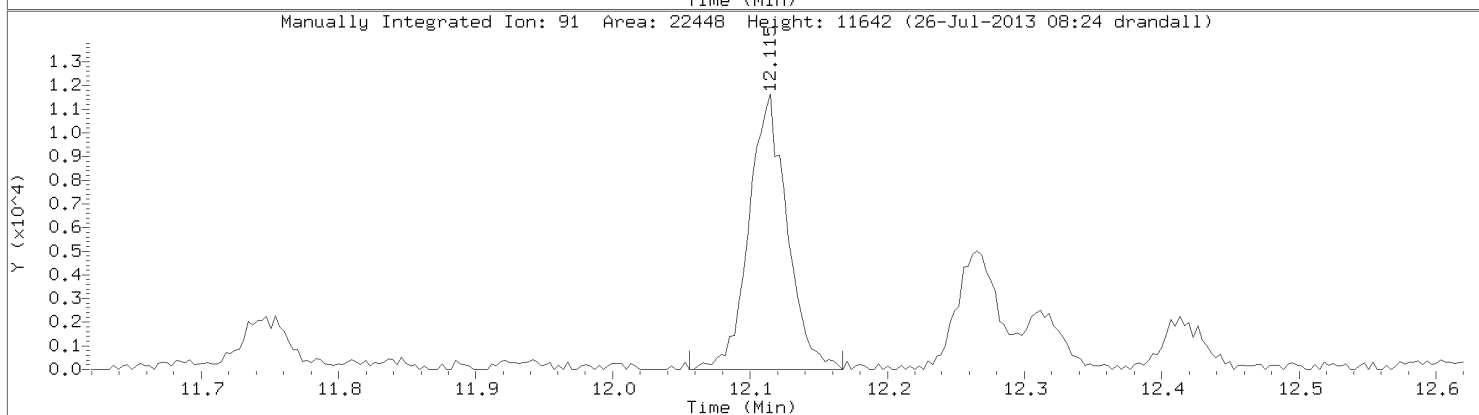
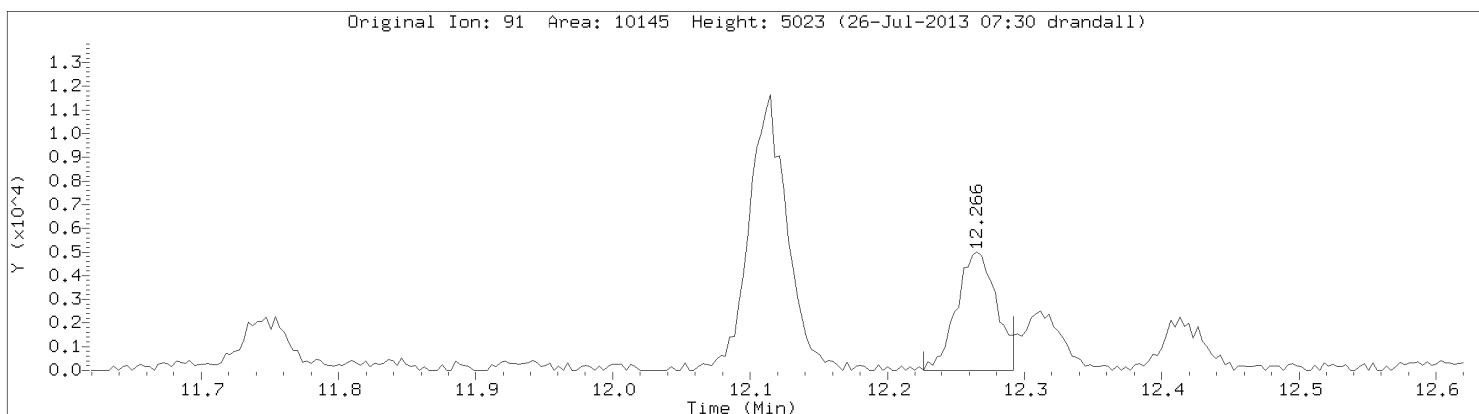
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Injection Date: 26-JUL-2013 01:31
Instrument: 10airD.i
Lab Sample ID: 10236207008

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



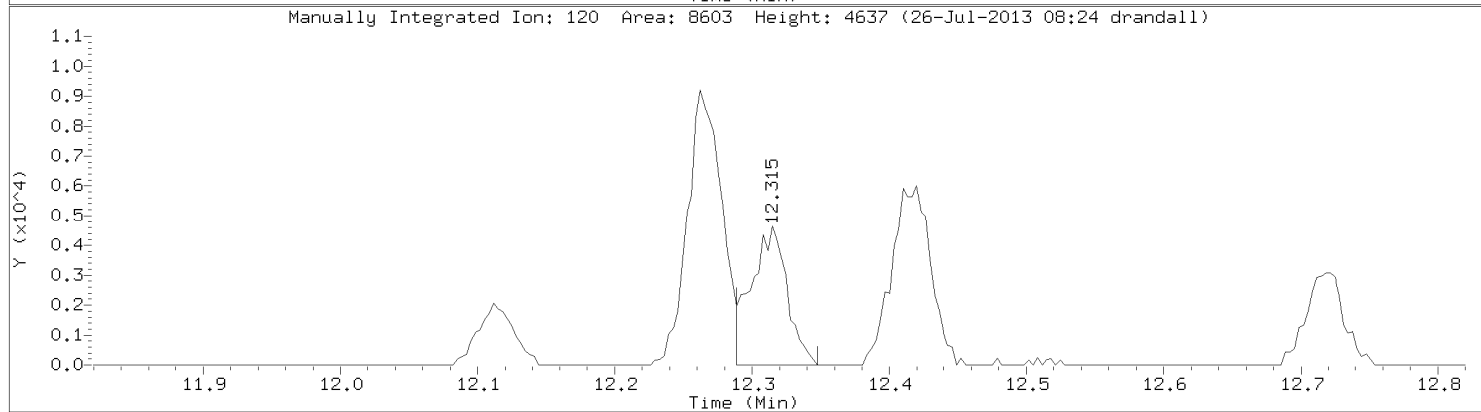
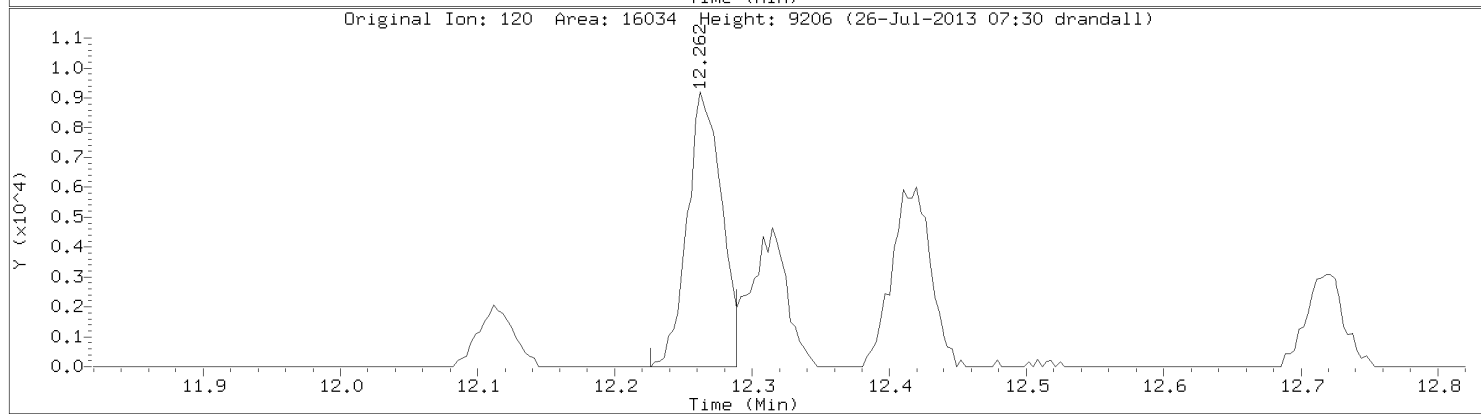
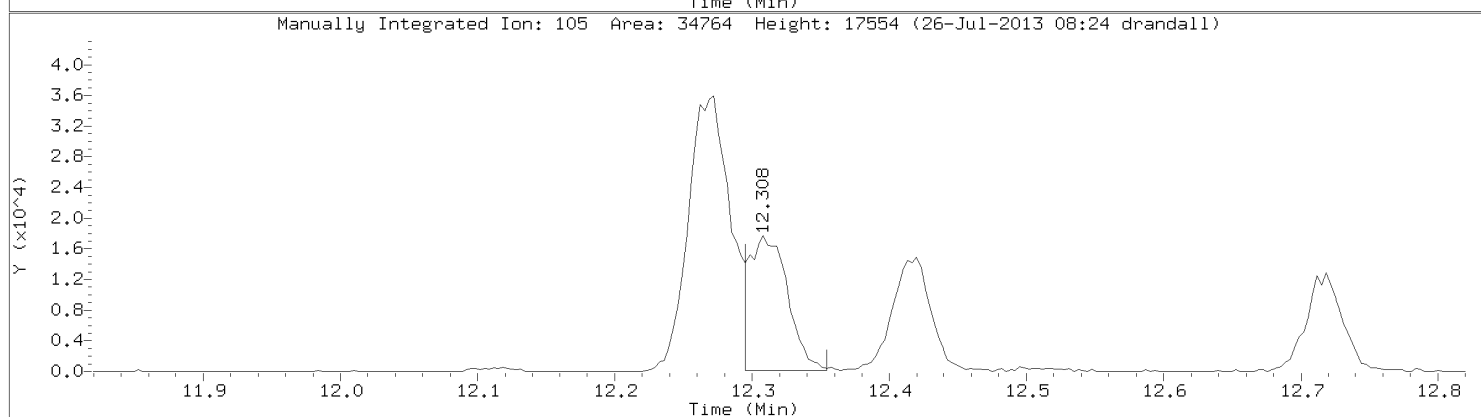
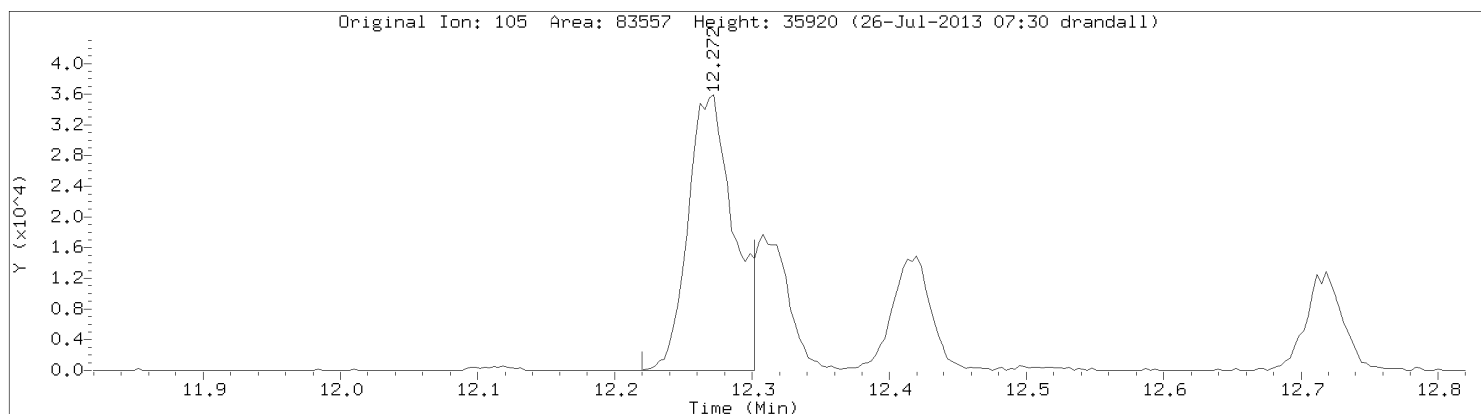
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Injection Date: 26-JUL-2013 01:31
Instrument: 10airD.i
Lab Sample ID: 10236207008

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

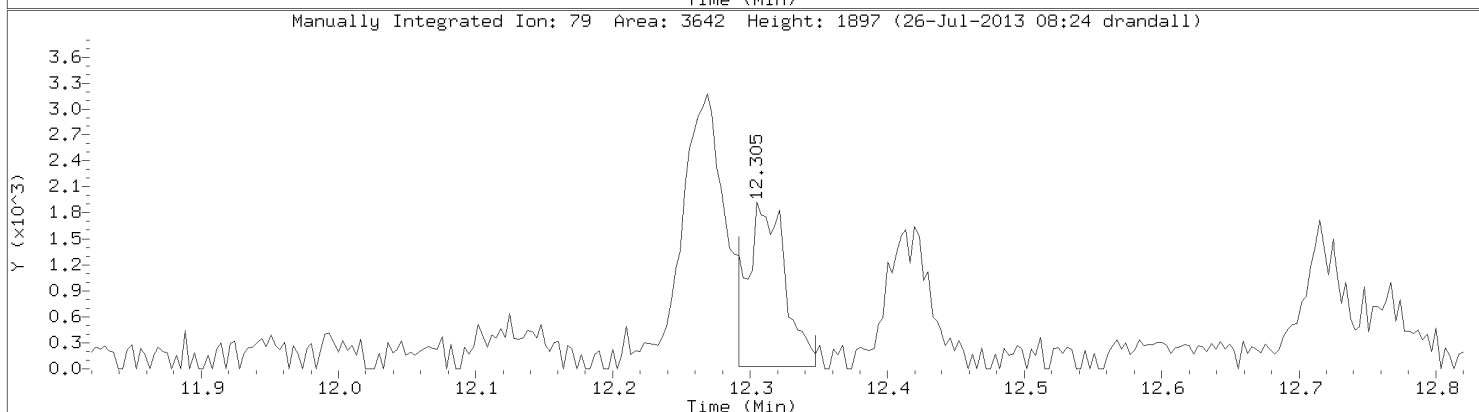
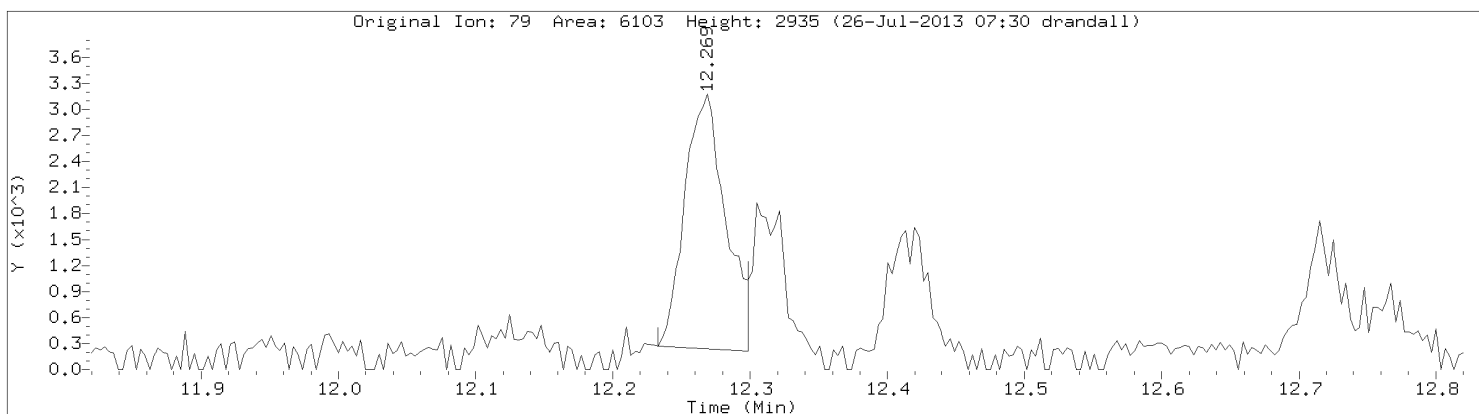


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Injection Date: 26-JUL-2013 01:31
Instrument: 10airD.i
Lab Sample ID: 10236207008

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

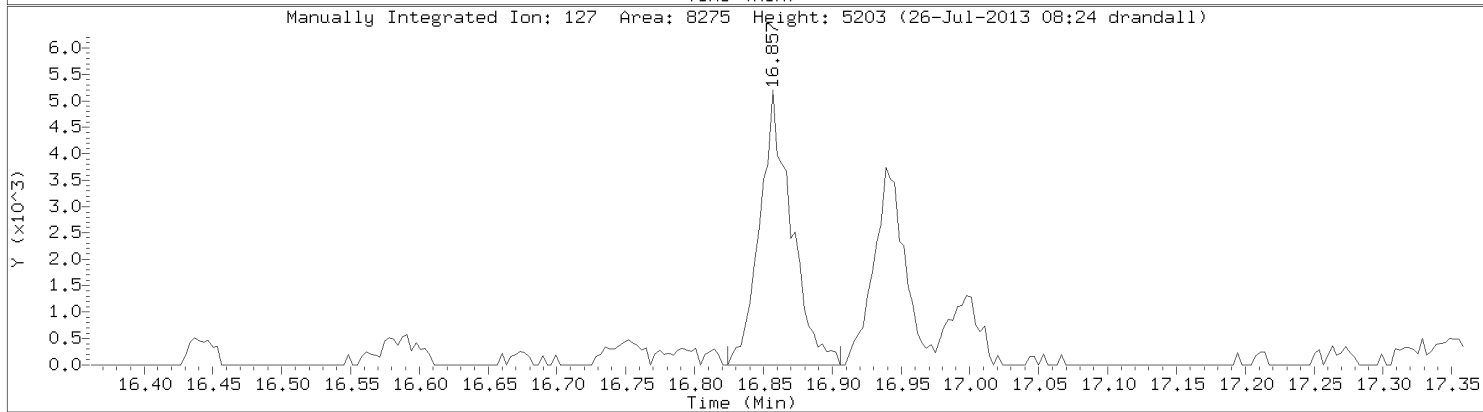
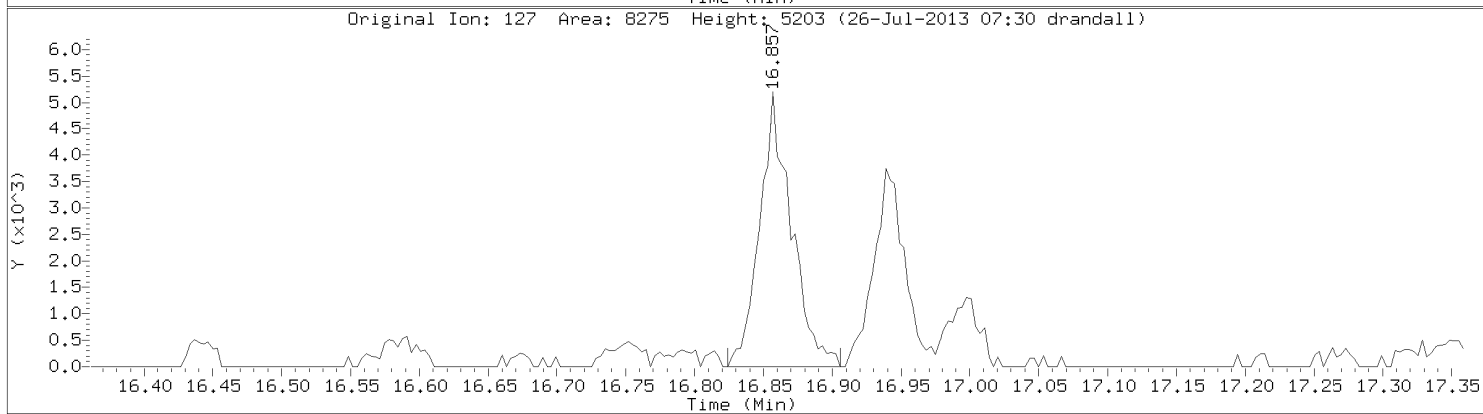
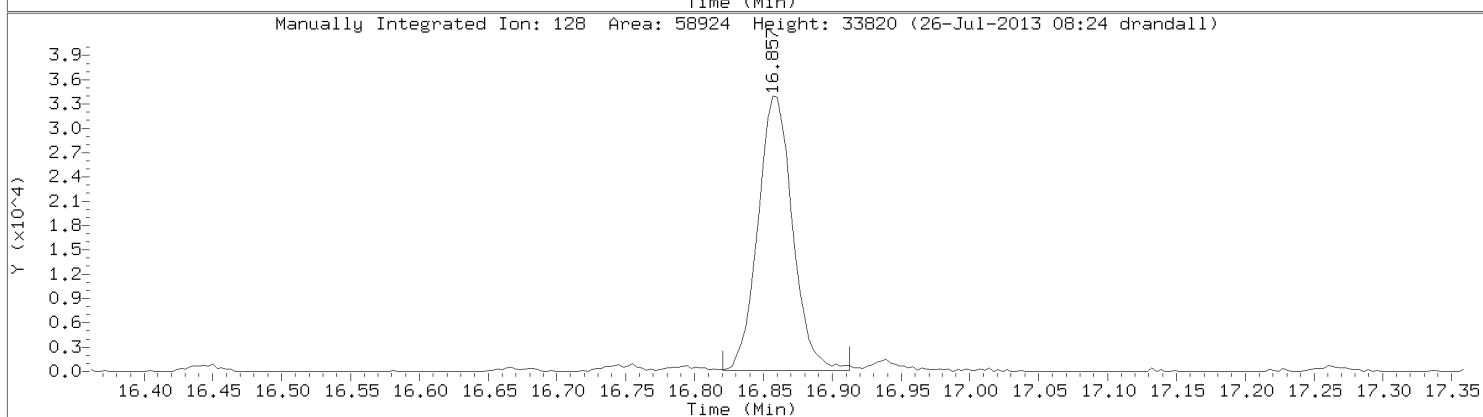
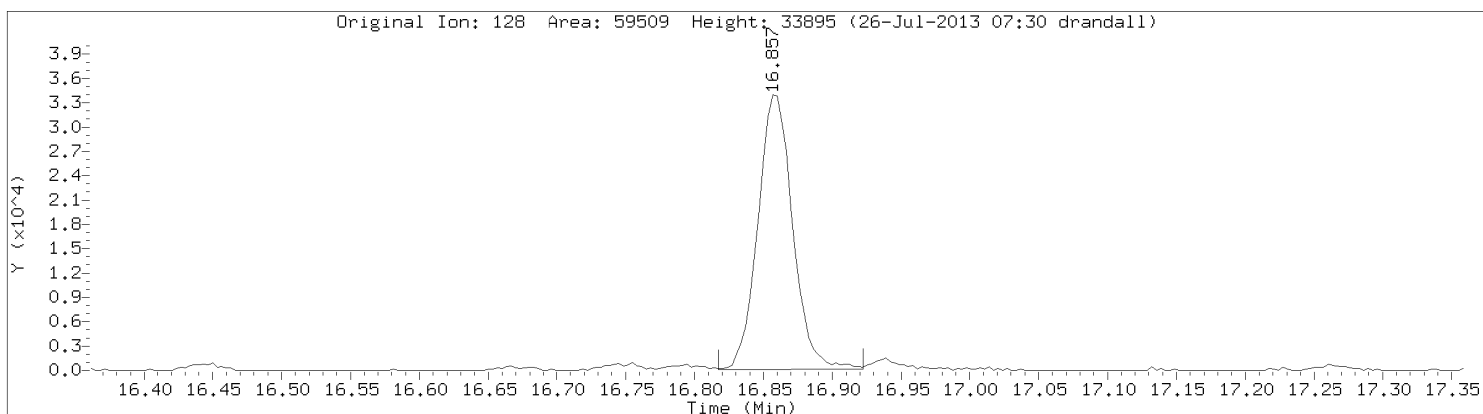


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Injection Date: 26-JUL-2013 01:31
Instrument: 10airD.i
Lab Sample ID: 10236207008



Data File: \\192.168.10.12\chem\10airD.i\072513.b\20626.d
Injection Date: 26-JUL-2013 01:31
Instrument: 10airD.i
Lab Sample ID: 10236207008

Compound: Naphthalene
CAS Number: 91-20-3



Data File: \\192.168.10.12\chem\10airD.i\072513.b\20629.d
 Report Date: 26-Jul-2013 08:32

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072513.b\20629.d
 Lab Smp Id: 10236207009
 Inj Date : 26-JUL-2013 03:02
 Operator : DR1 Inst ID: 10airD.i
 Smp Info :
 Misc Info : 17870
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
 Meth Date : 25-Jul-2013 16:57 creindl Quant Type: ISTD
 Cal Date : 24-JUL-2013 16:39 Cal File: 20509.d
 Als bottle: 29
 Dil Factor: 1.44000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10AIRPC4

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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
1 Propylene	41		2.971	2.982	(0.488)	241516	26.0719	37.5
2 Dichlorodifluoromethane	85		2.998	3.008	(0.493)	22551	0.25302	0.364
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		3.493	3.494	(0.574)	70410	6.63108	9.55 (M)
10 Vinyl Bromide	106					Compound Not Detected.		
11 Acrolein	56					Compound Not Detected.		
12 Trichlorofluoromethane	101		3.696	3.694	(0.607)	12405	0.12795	0.184
13 Acetone	43		3.729	3.726	(0.613)	474184	9.75718	14.0
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		3.978	3.989	(0.654)	30525	0.59871	0.862 (M)
18 Freon 113	101					Compound Not Detected.		
19 Methylene chloride	49		4.096	4.094	(0.673)	10641	0.38646	0.556
20 Allyl Chloride	76					Compound Not Detected.		
21 Carbon Disulfide	76		4.227	4.224	(0.695)	45937	0.57331	0.826 (M)
22 trans-1,2-dichloroethene	96					Compound Not Detected.		
23 Methyl Tert Butyl Ether	73					Compound Not Detected.		

Compounds	QUANT	SIG					CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppbv)
24 Vinyl Acetate	43		Compound Not Detected.					
25 1,1-Dichloroethane	63		Compound Not Detected.					
\$ 26 Hexane-d14 (S)	66		4.700	4.700	(0.772)	301654	8.52142	8.52
27 Methyl Ethyl Ketone	72		4.775	4.779	(0.785)	37089	3.29635	4.75
28 n-Hexane	57		4.818	4.818	(0.792)	39531	1.22842	1.77 (M)
29 cis-1,2-Dichloroethene	96		Compound Not Detected.					
30 Ethyl Acetate	43		Compound Not Detected.					
31 Chloroform	83		Compound Not Detected.					
32 Tetrahydrofuran	42		Compound Not Detected.					
33 1,1,1-Trichloroethane	97		Compound Not Detected.					
34 1,2-Dichloroethane	62		Compound Not Detected.					
35 Benzene	78		5.877	5.887	(0.966)	61574	1.29114	1.86 (M)
36 Carbon tetrachloride	117		Compound Not Detected.					
37 Cyclohexane	56		5.913	5.910	(0.971)	8282	0.77935	1.12 (QM)
* 38 1,4-Difluorobenzene	114		6.087	6.094	(1.000)	733070	10.0000	
39 2,2,4-Trimethylpentane	57		Compound Not Detected.					
40 Heptane	43		6.434	6.442	(1.057)	12052	0.90467	1.30
41 1,2-Dichloropropane	63		Compound Not Detected.					
42 Trichloroethene	130		Compound Not Detected.					
43 1,4-Dioxane	88		Compound Not Detected.					
44 Bromodichloromethane	83		Compound Not Detected.					
45 Methyl Isobutyl Ketone	43		7.225	7.229	(1.187)	7389	0.59121	0.851 (M)
46 cis-1,3-Dichloropropene	75		Compound Not Detected.					
47 trans-1,3-Dichloropropene	75		Compound Not Detected.					
\$ 48 Toluene-d8 (S)	98		7.841	7.848	(1.288)	527589	10.3050	10.3
49 Toluene	91		7.930	7.940	(1.303)	190217	2.54103	3.66
50 1,1,2-Trichloroethane	97		Compound Not Detected.					
51 Methyl Butyl Ketone	43		8.248	8.244	(0.852)	6746	0.51345	0.739 (M)
52 Dibromochloromethane	129		Compound Not Detected.					
53 1,2-Dibromoethane	107		Compound Not Detected.					
54 Tetrachloroethene	166		8.914	8.918	(0.920)	4931	0.48869	0.704
* 55 Chlorobenzene - d5	117		9.684	9.691	(1.000)	282247	10.0000	
56 Chlorobenzene	112		Compound Not Detected.					
57 Ethyl Benzene	91		10.035	10.039	(1.036)	70169	0.94467	1.36
58 m&p-Xylene	91		10.199	10.213	(1.053)	221146	2.78673	4.01 (M)
59 Bromoform	173		Compound Not Detected.					
60 Styrene	104		10.701	10.708	(1.105)	10319	0.64551	0.930 (M)
61 o-Xylene	91		10.770	10.783	(1.112)	72763	0.99421	1.43
62 1,1,2,2-Tetrachloroethane	83		Compound Not Detected.					
63 Isopropylbenzene	105		Compound Not Detected.					
64 N-Propylbenzene	91		12.114	12.121	(1.251)	24960	0.48138	0.693 (M)
65 4-Ethyltoluene	105		12.308	12.321	(1.271)	45175	0.75099	1.08 (M)
66 1,3,5-Trimethylbenzene	105		12.413	12.426	(1.282)	33826	0.65843	0.948
67 1,2,4-Trimethylbenzene	105		13.013	13.020	(1.344)	149262	2.01497	2.90
68 1,3-Dichlorobenzene	146		Compound Not Detected.					
69 Sec- Butylbenzene	105		Compound Not Detected.					
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.449	13.459	(1.389)	103919	9.12148	9.12
71 Benzyl Chloride	91		Compound Not Detected.					
72 1,4-Dichlorobenzene	146		Compound Not Detected.					
73 1,2-Dichlorobenzene	146		Compound Not Detected.					
74 N-Butylbenzene	91		Compound Not Detected.					
75 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
76 Naphthalene	128		16.859	16.860	(1.741)	47623	1.44782	2.08
77 Hexachlorobutadiene	225		Compound Not Detected.					

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20629.d
Report Date: 26-Jul-2013 08:32

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
	MASS					ON-COLUMN	FINAL
=====	====	====	=====	=====	=====	(ppbv)	(ppbv)

QC Flag Legend

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

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20629.d
Report Date: 26-Jul-2013 08:32

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 20629.d
Lab Smp Id: 10236207009
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
Misc Info: 17870

Calibration Date: 25-JUL-2013
Calibration Time: 13:08

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	733070	26.44
55 Chlorobenzene - d	221404	132842	309966	282247	27.48

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	-0.06
55 Chlorobenzene - d	9.69	9.36	10.02	9.68	-0.04

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\072513.b\20629.D

Date : 26-JUL-2013 03:02

Client ID:

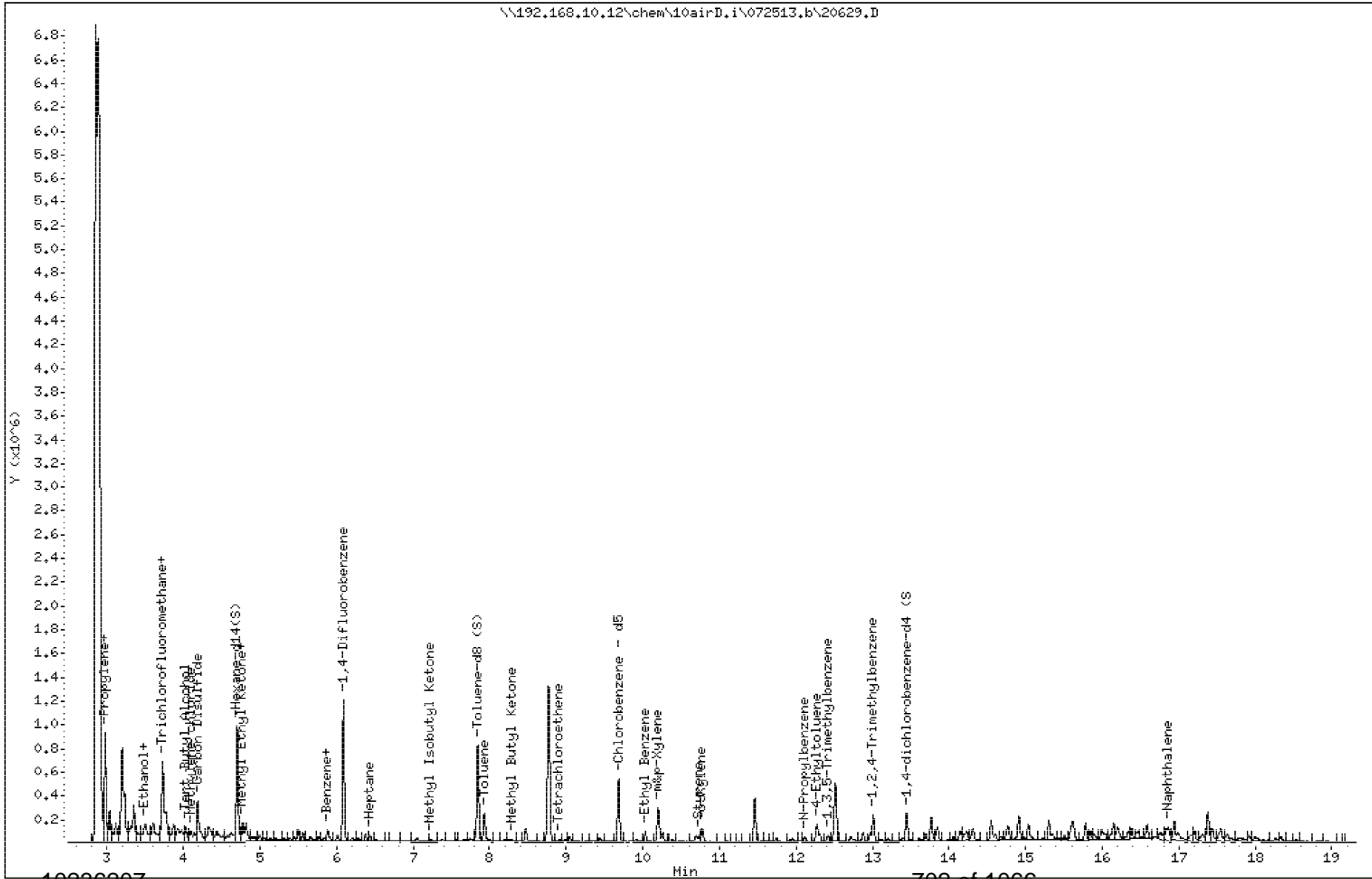
Instrument: 10airD.i

Sample Info:

Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20629.D

Date : 26-JUL-2013 03:02

Client ID:

Instrument: 10airD.i

Sample Info:

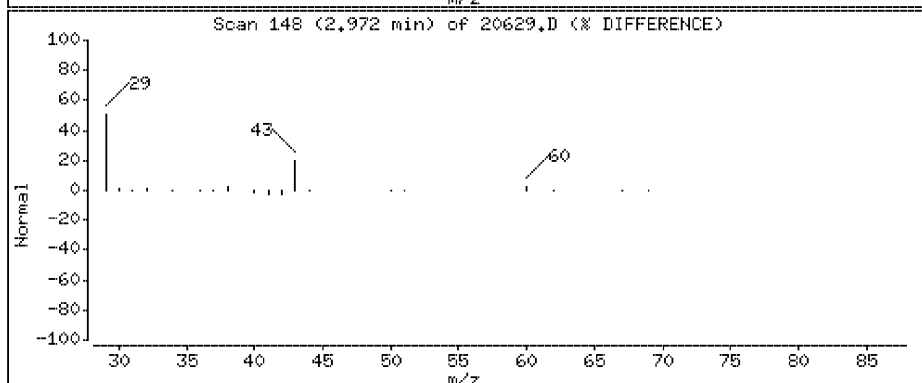
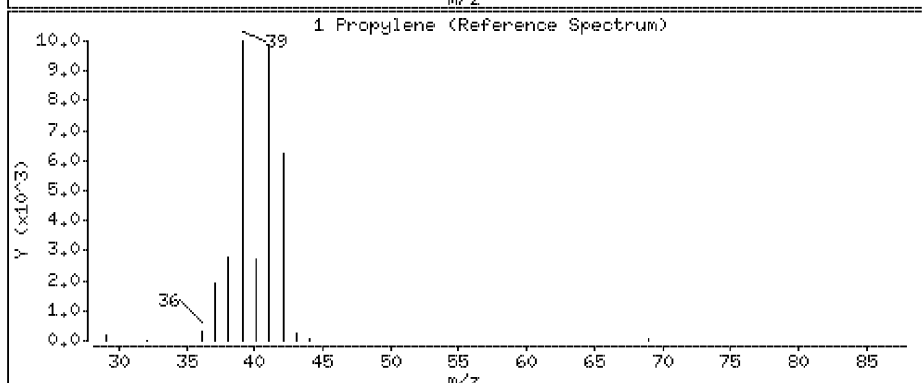
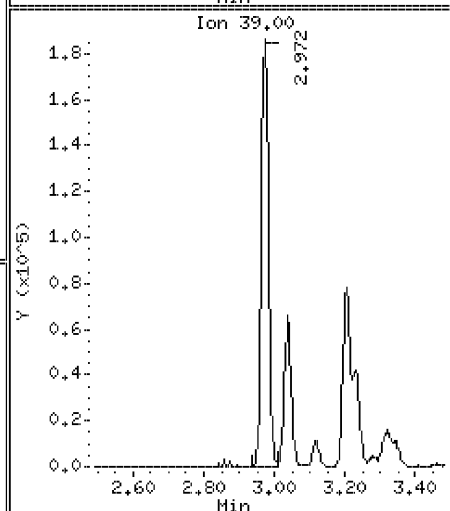
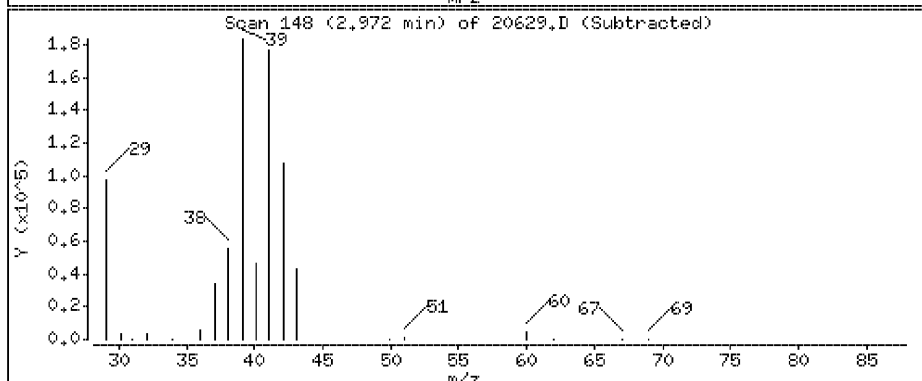
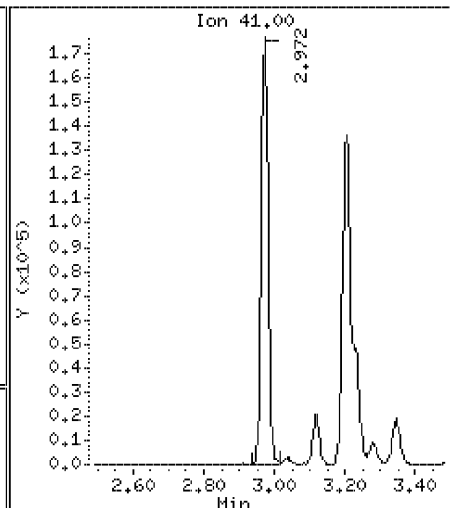
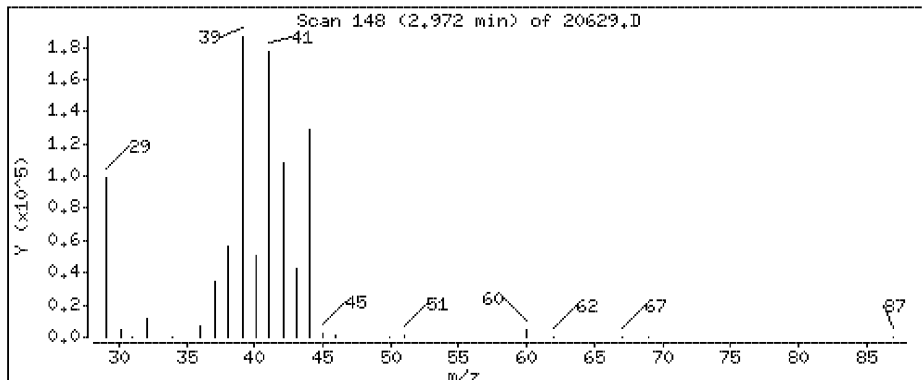
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

1 Propylene

Concentration: 37,5 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20629.D

Date : 26-JUL-2013 03:02

Client ID:

Instrument: 10airD.i

Sample Info:

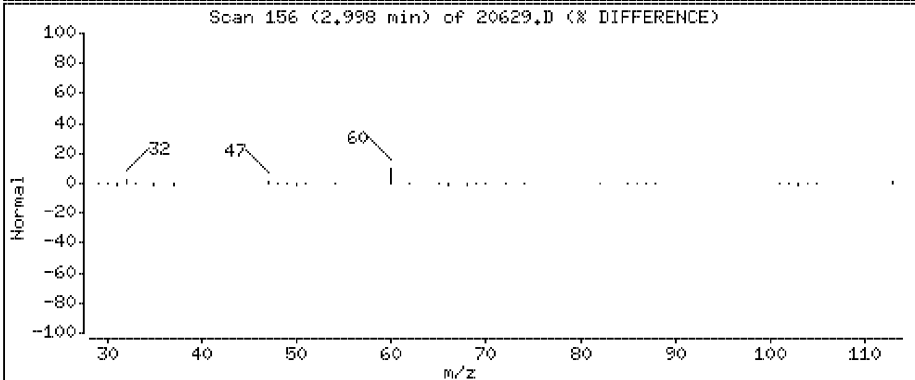
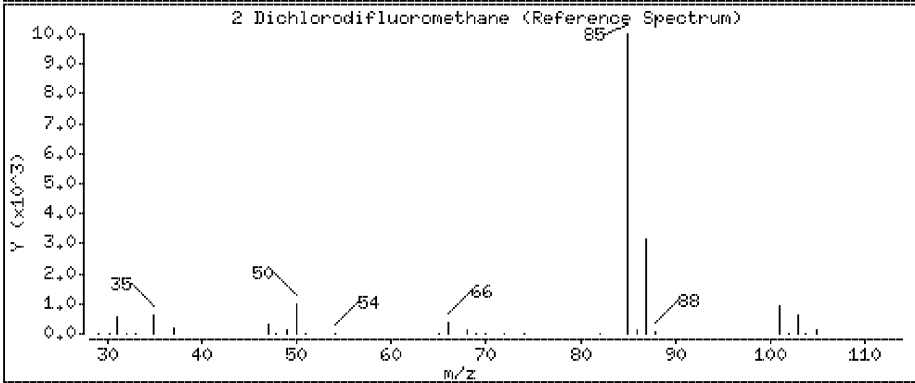
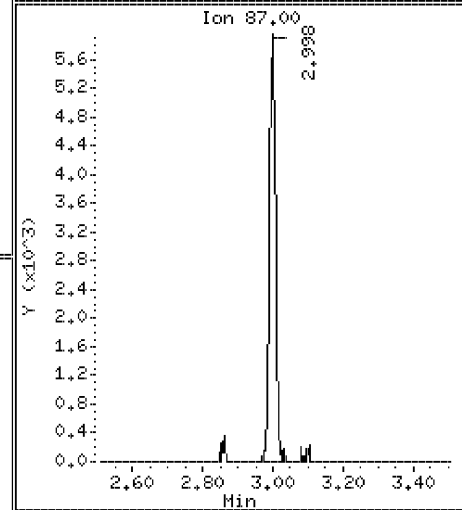
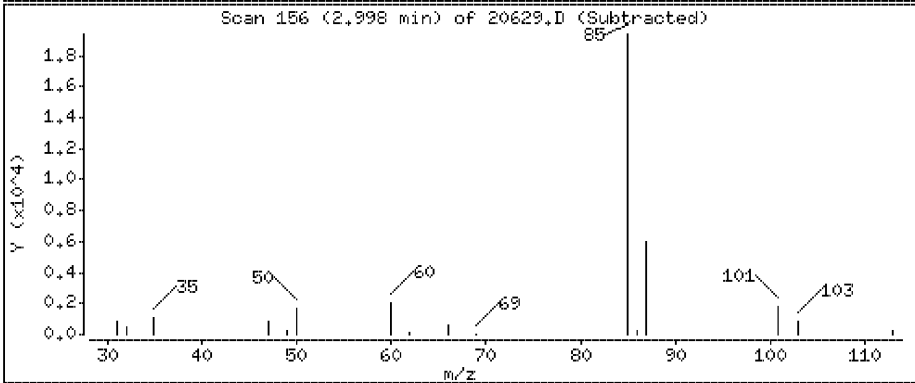
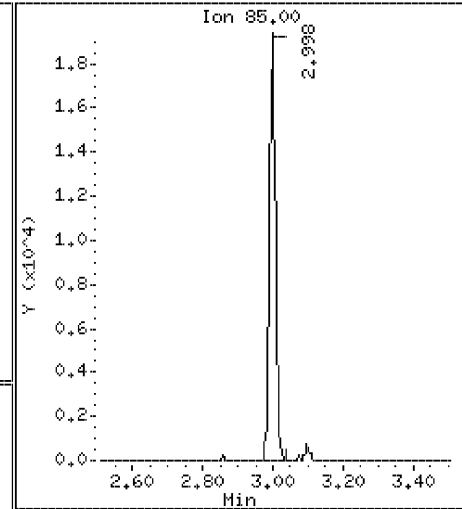
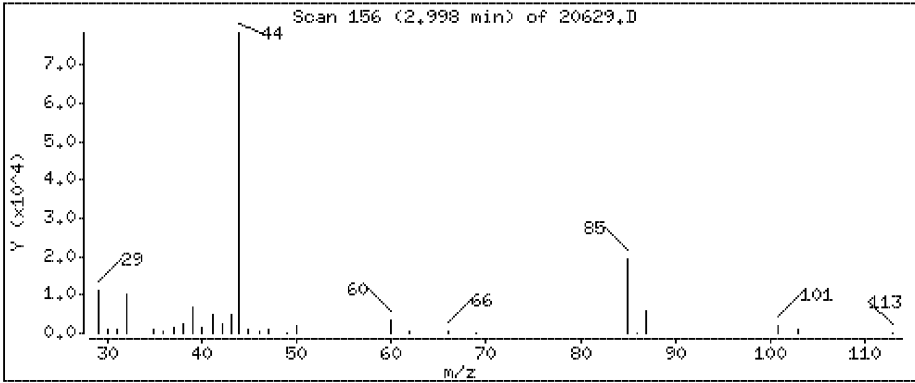
Operator: DR1

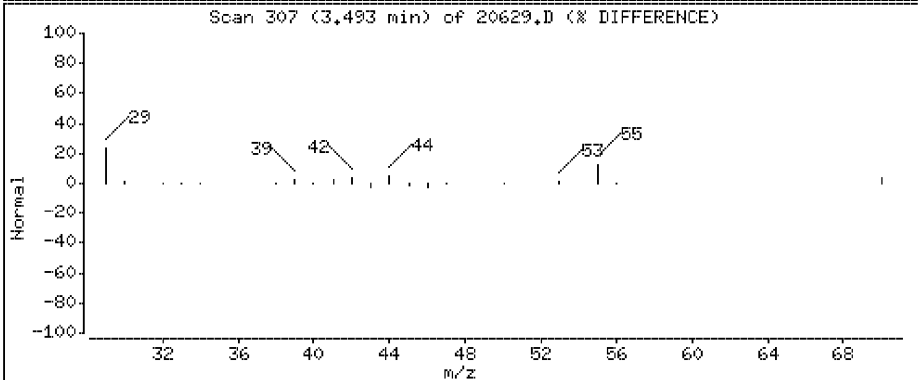
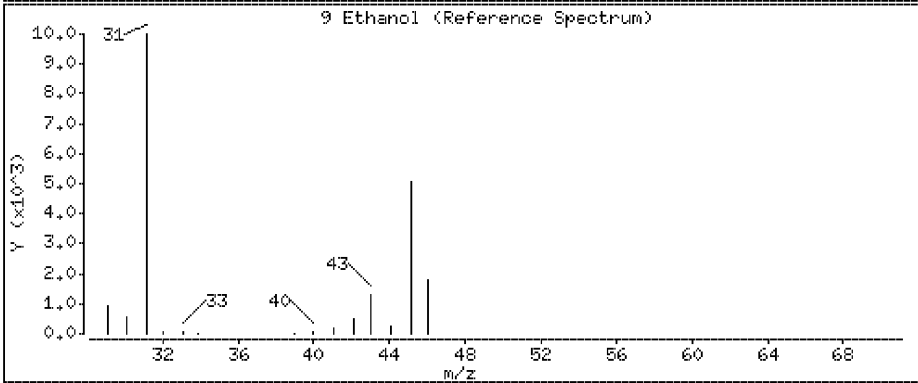
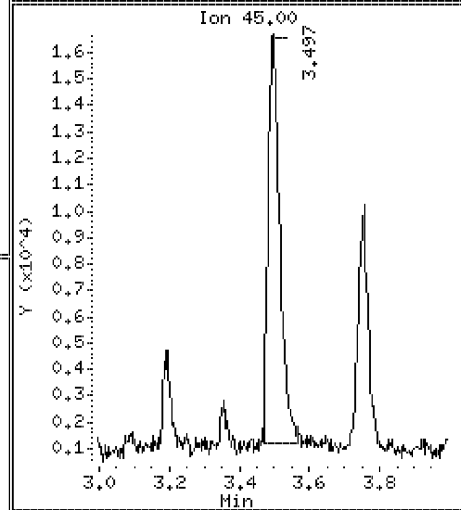
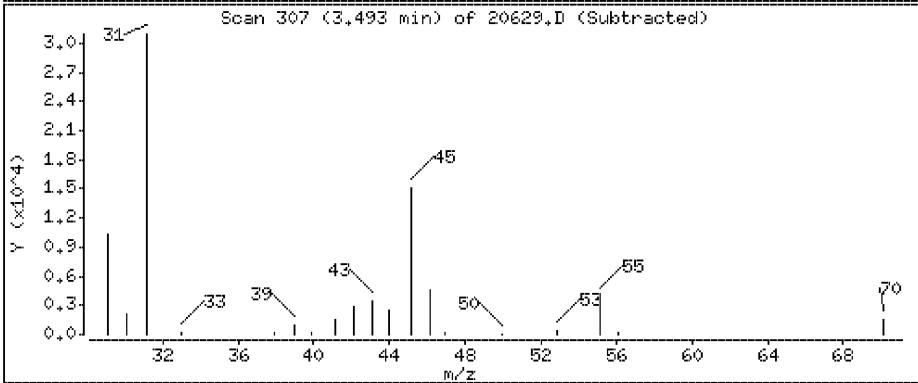
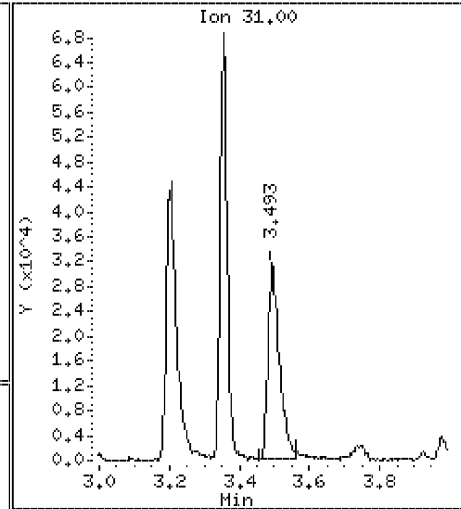
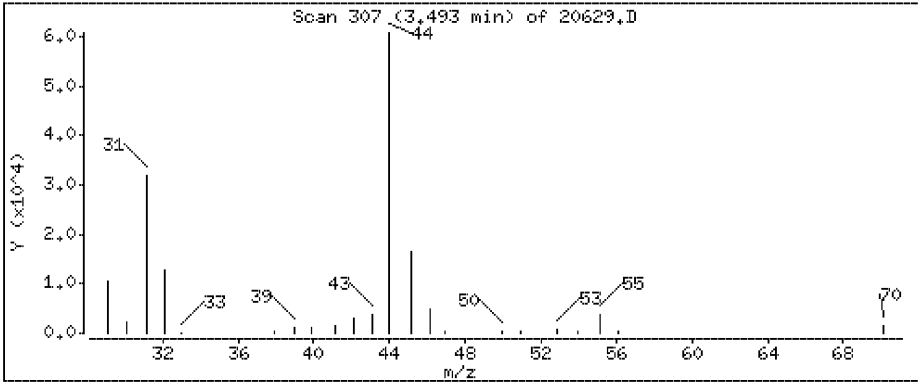
Column phase: J&W DB-5

Column diameter: 0.32

2 Dichlorodifluoromethane

Concentration: 0.364 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20629.D

Date : 26-JUL-2013 03:02

Client ID:

Instrument: 10airD.i

Sample Info:

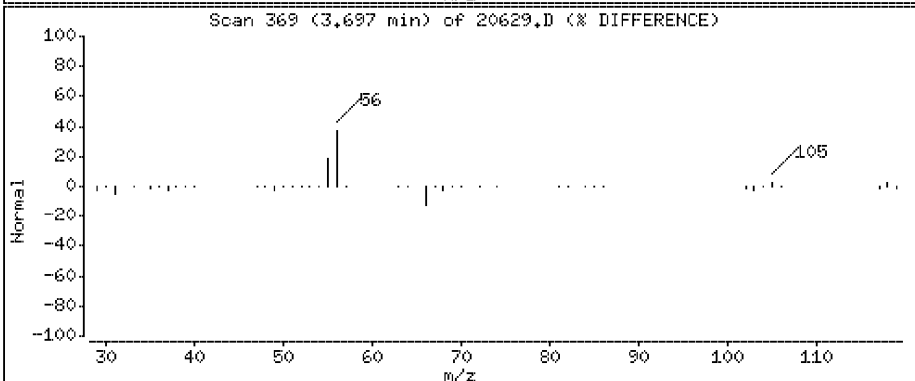
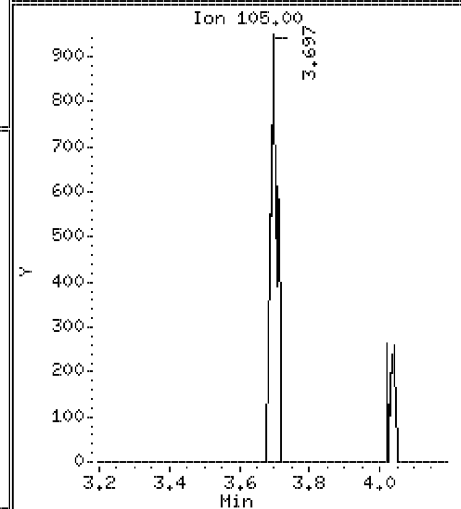
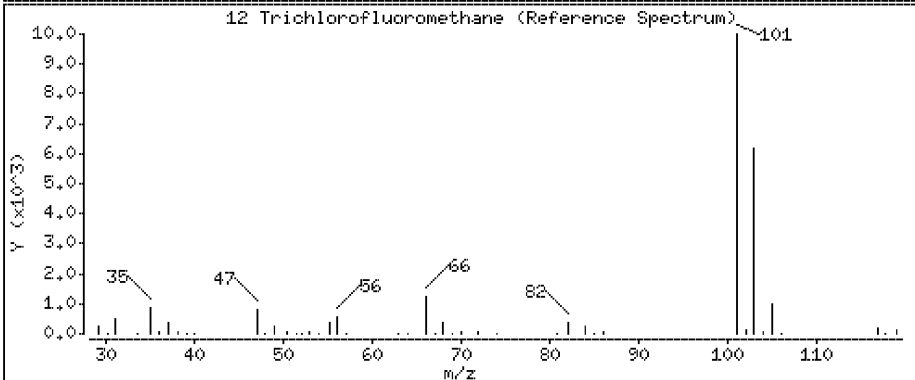
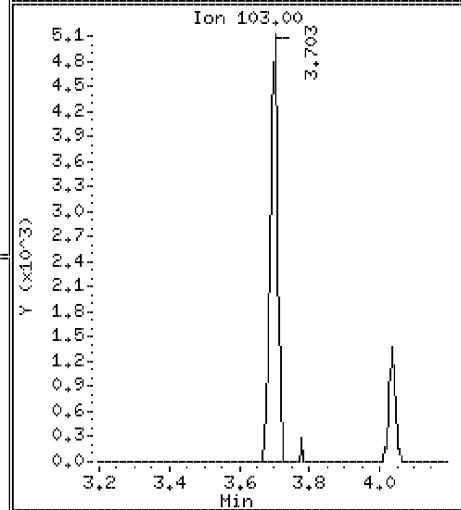
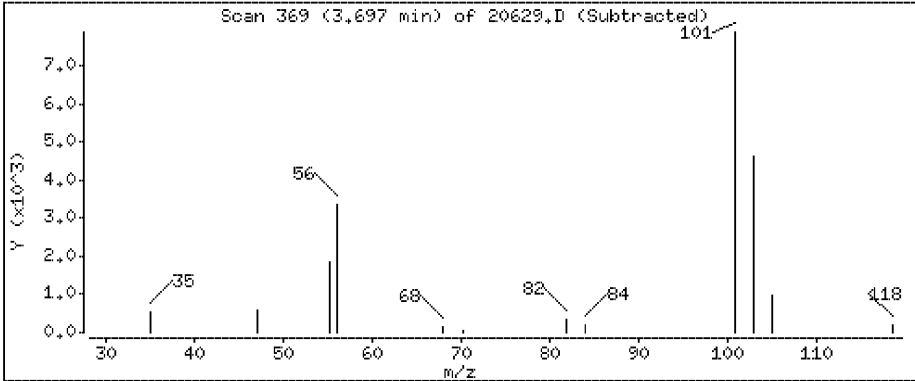
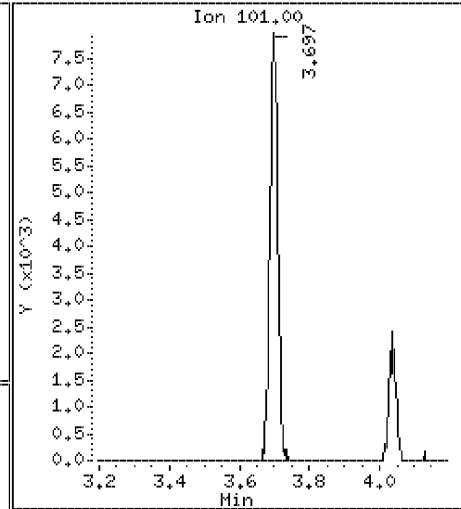
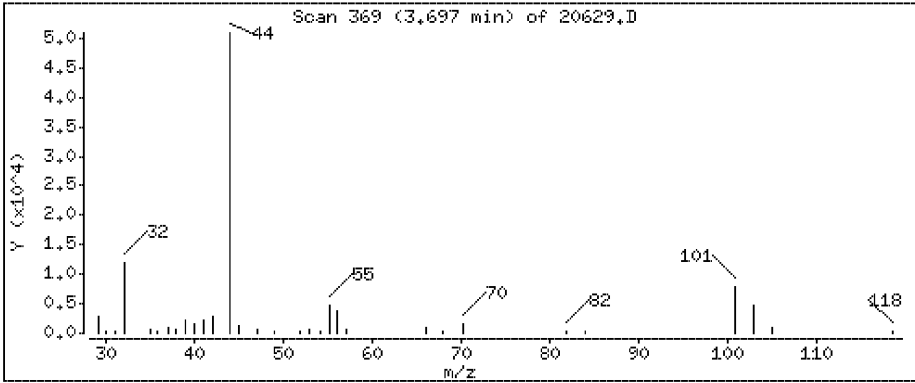
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

12 Trichlorofluoromethane

Concentration: 0.184 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20629.D

Date : 26-JUL-2013 03:02

Client ID:

Instrument: 10airD.i

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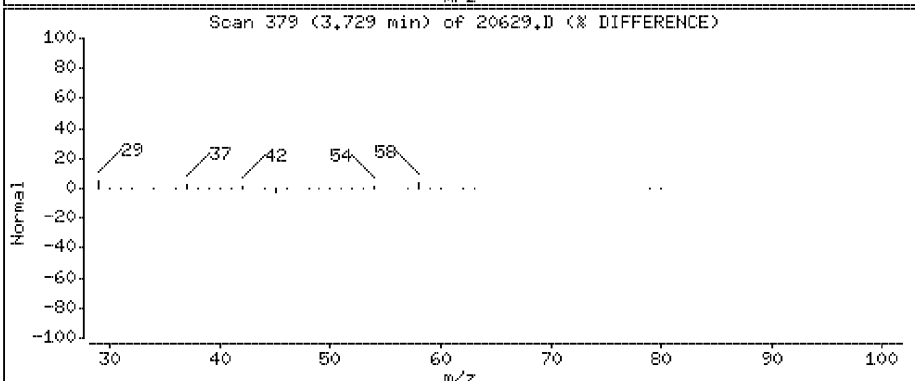
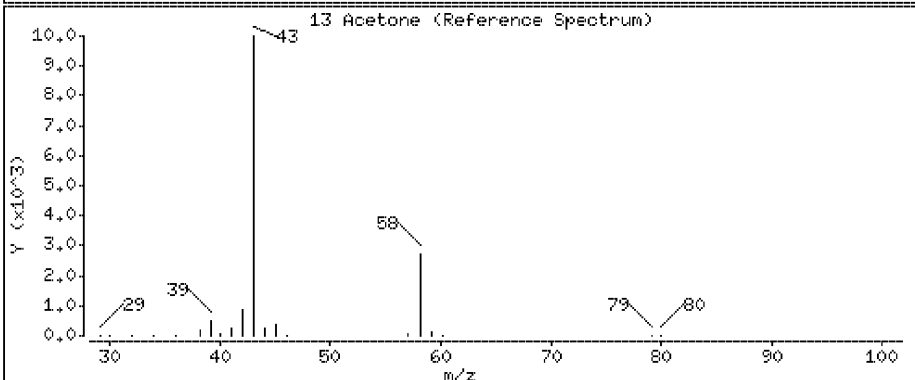
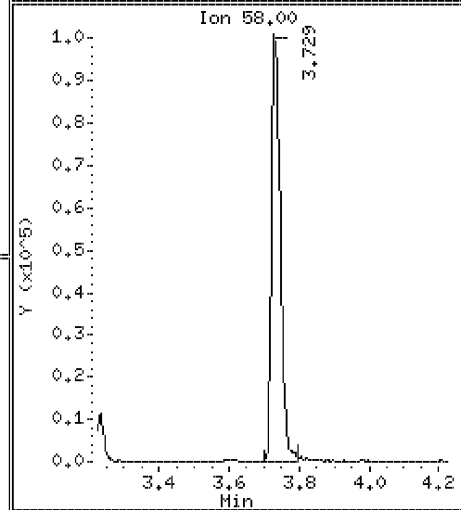
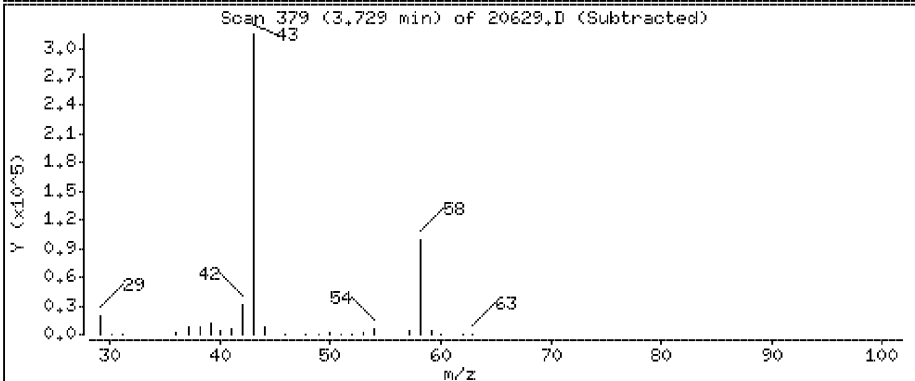
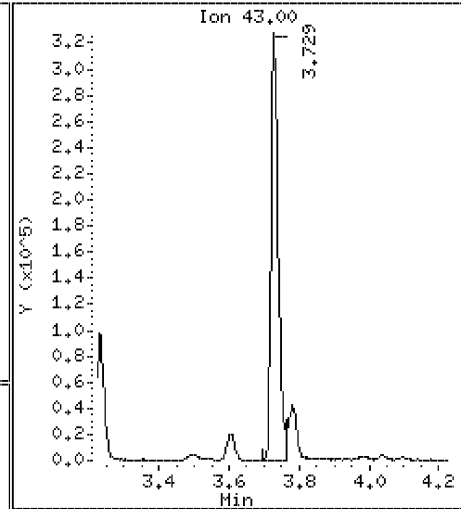
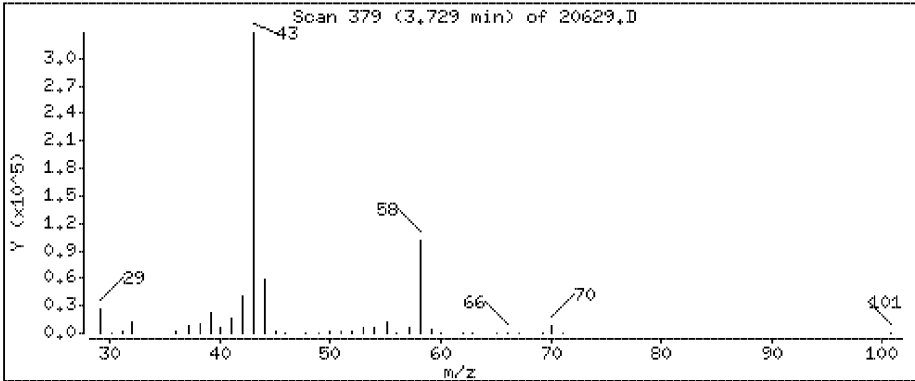
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

13 Acetone

Concentration: 14.0 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20629.D

Date : 26-JUL-2013 03:02

Client ID:

Instrument: 10airD.i

Sample Info:

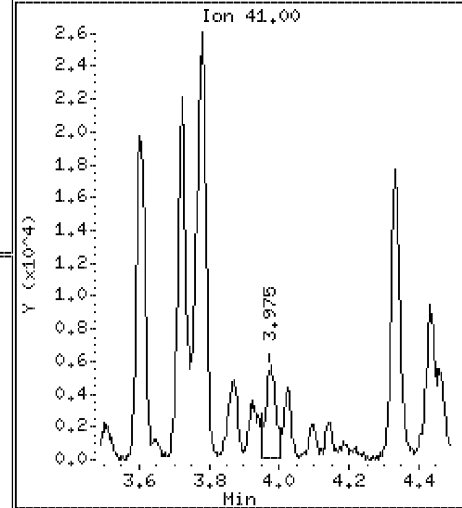
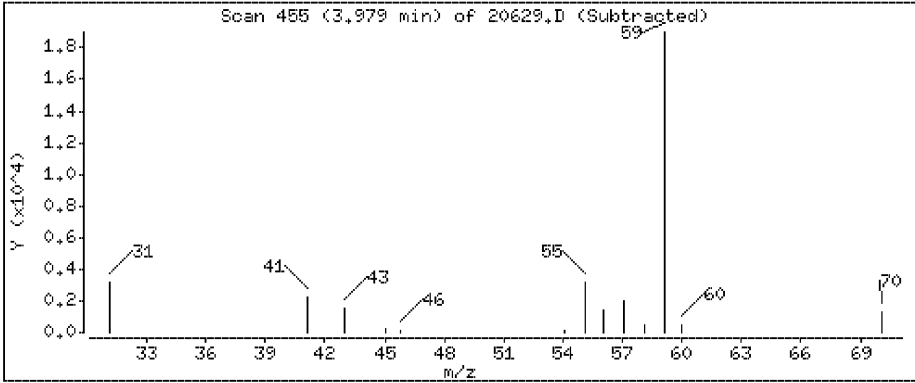
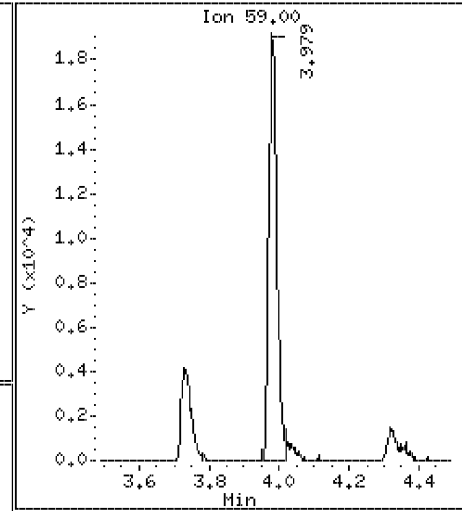
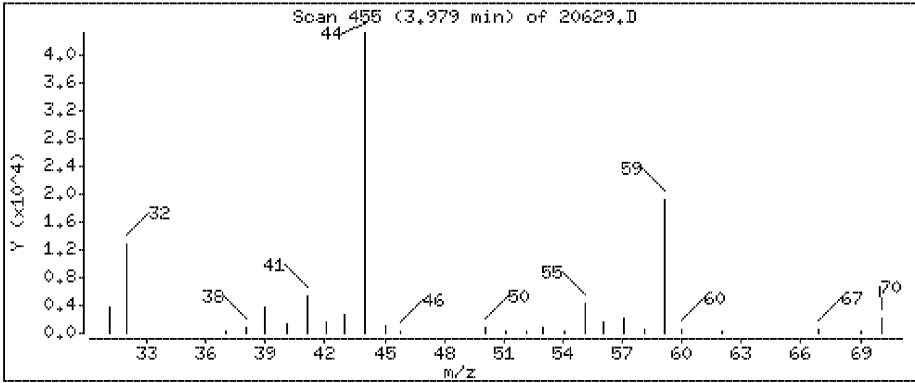
Operator: DR1

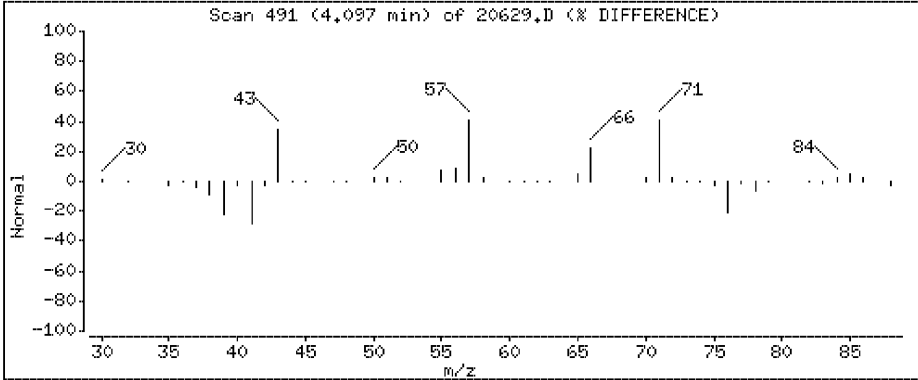
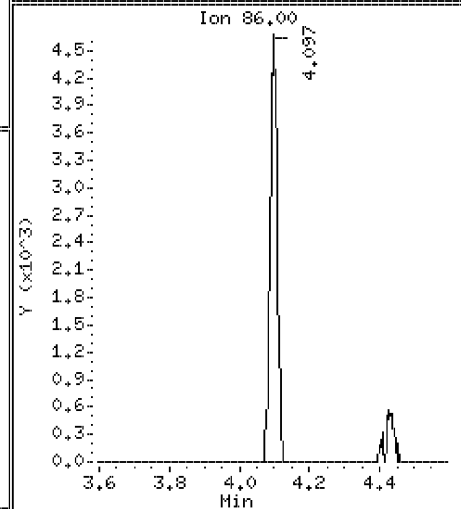
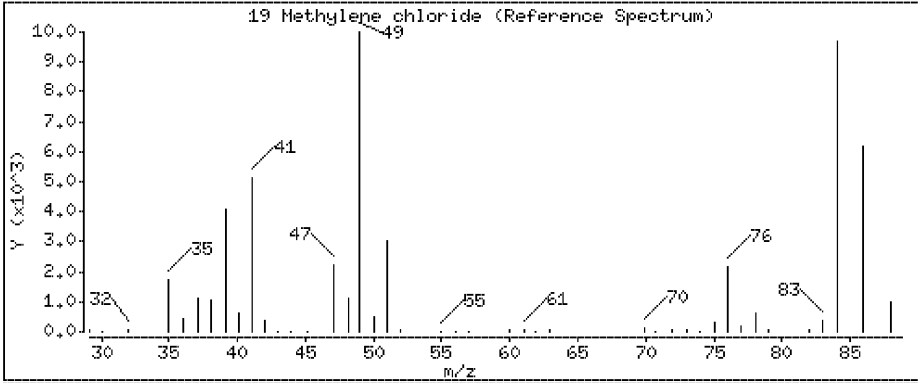
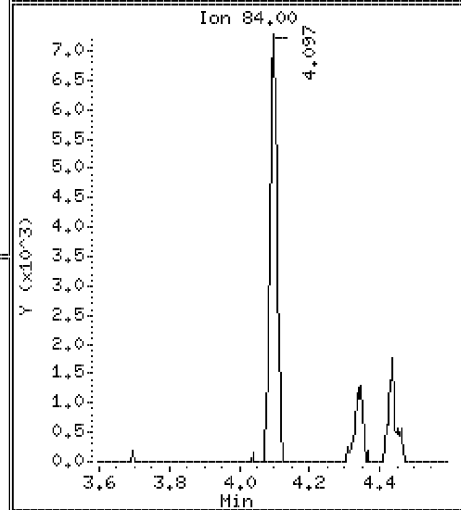
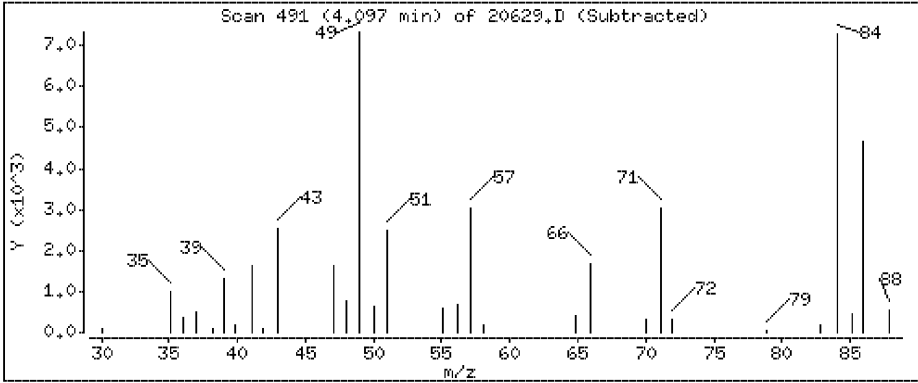
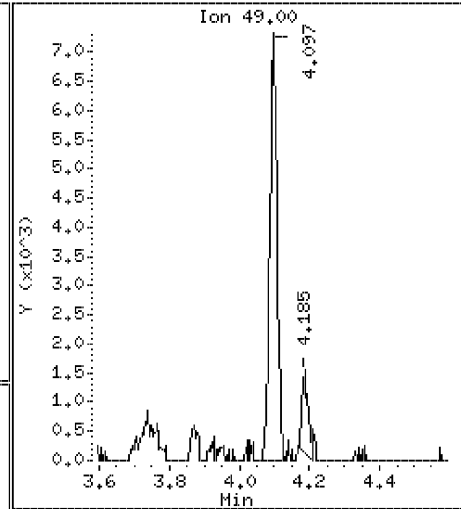
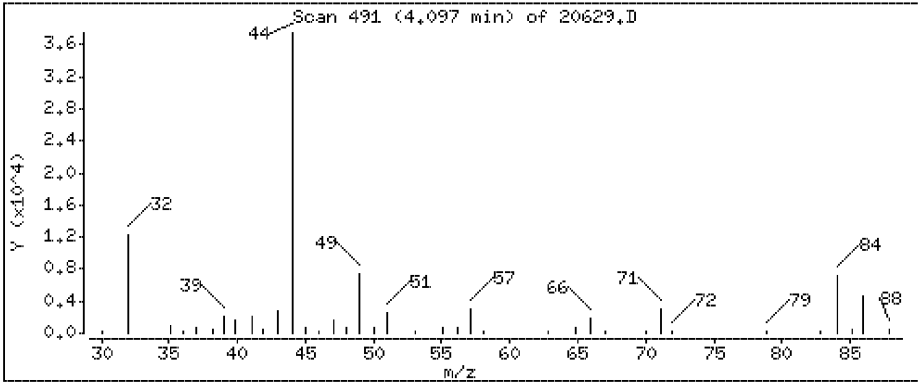
Column phase: J&W DB-5

Column diameter: 0.32

17 Tert Butyl Alcohol

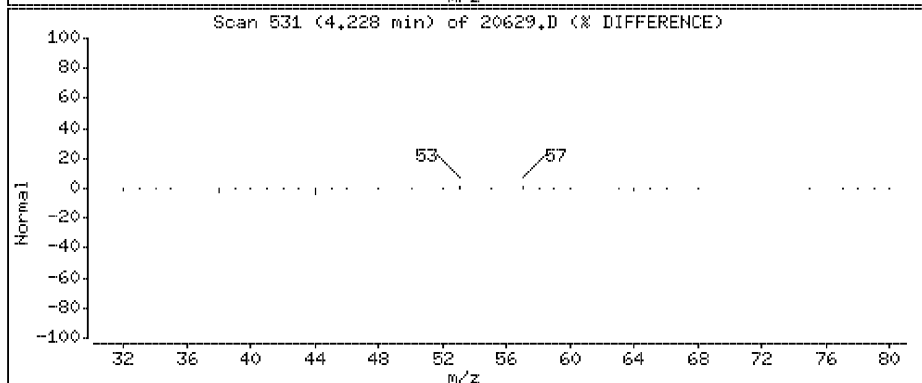
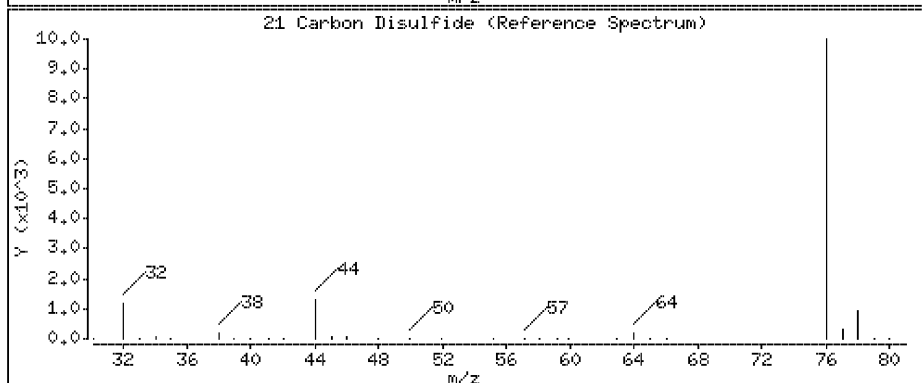
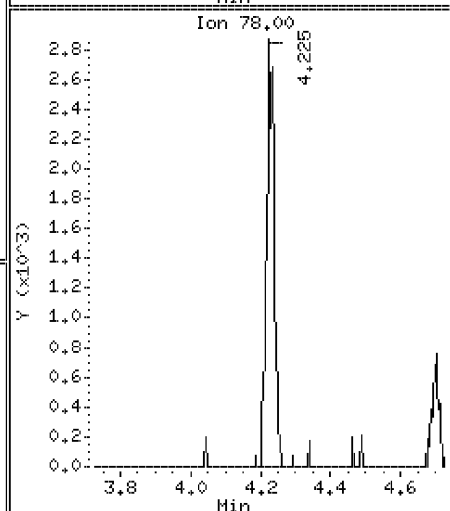
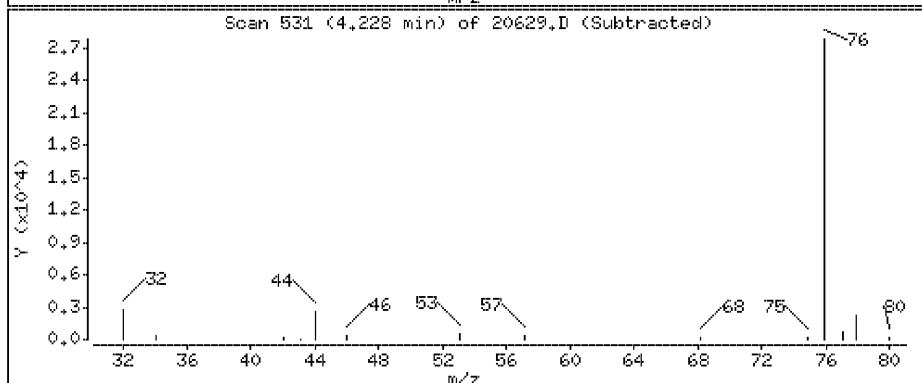
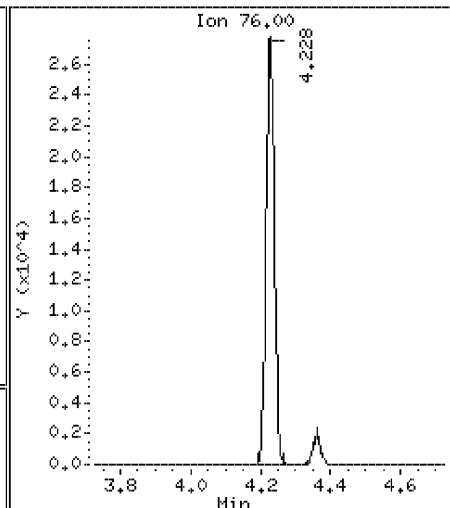
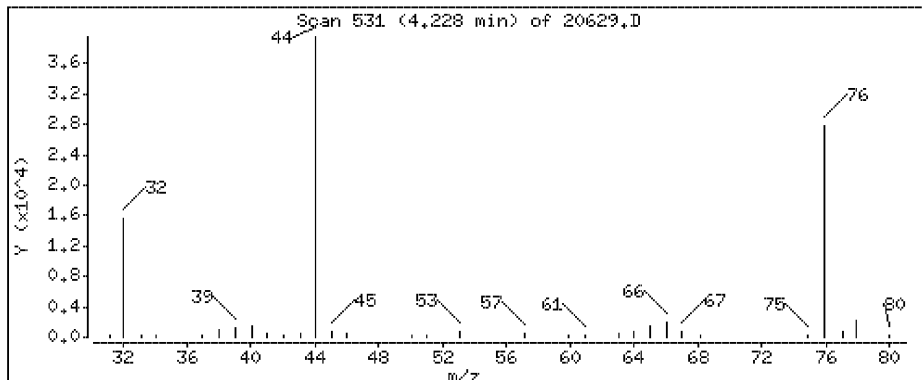
Concentration: 0.862 ppbv





21 Carbon Disulfide

Concentration: 0,826 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20629.D

Date : 26-JUL-2013 03:02

Client ID:

Instrument: 10airD.i

Sample Info:

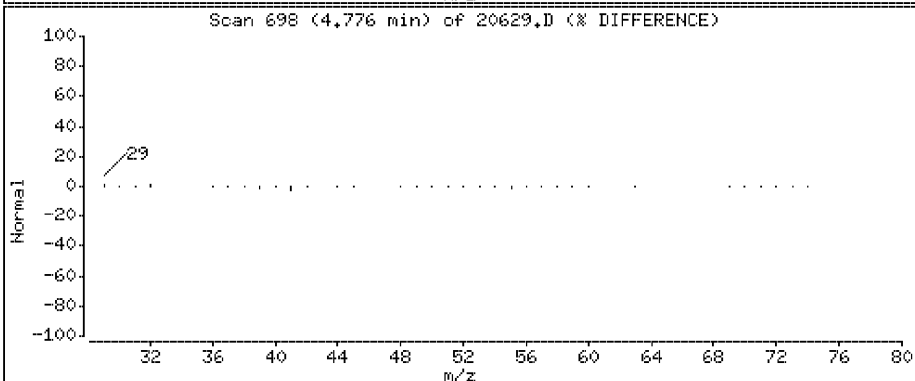
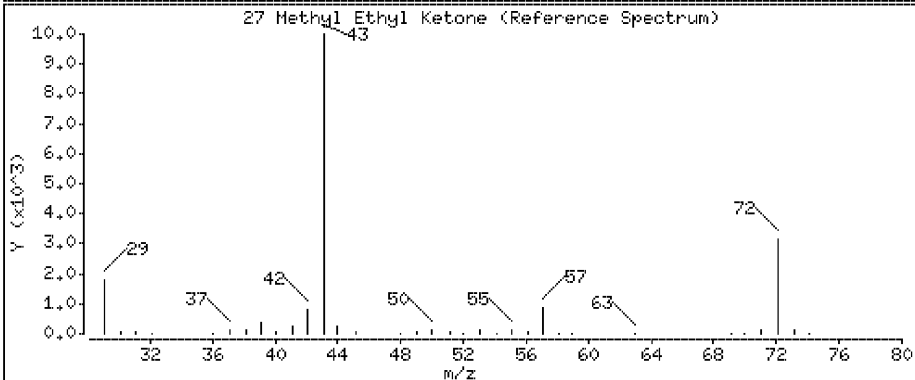
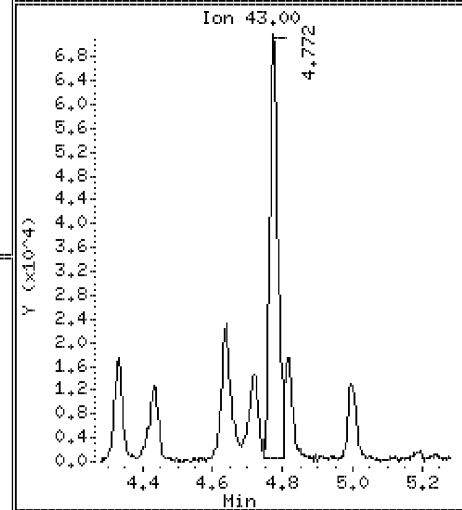
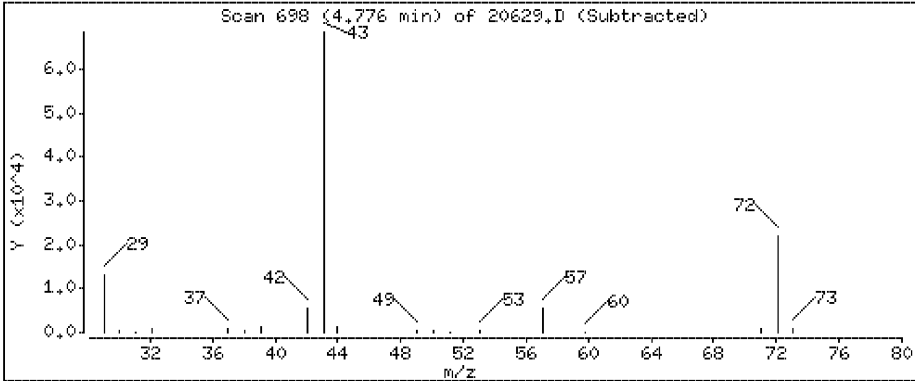
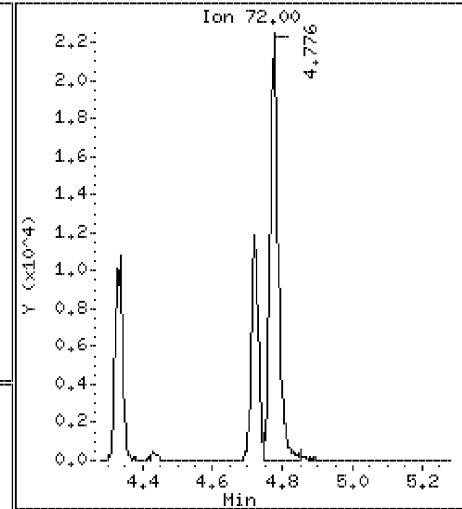
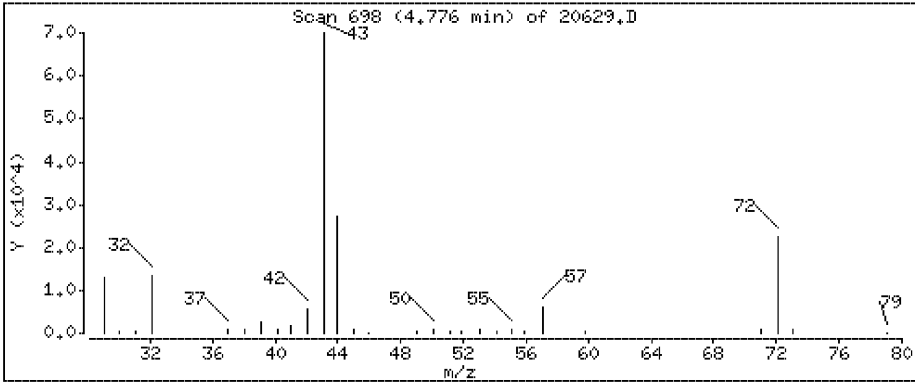
Operator: DR1

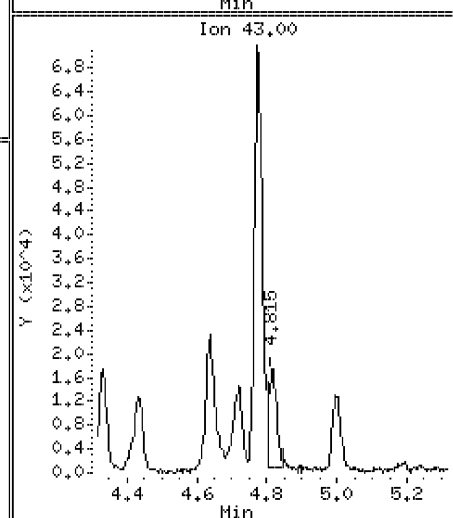
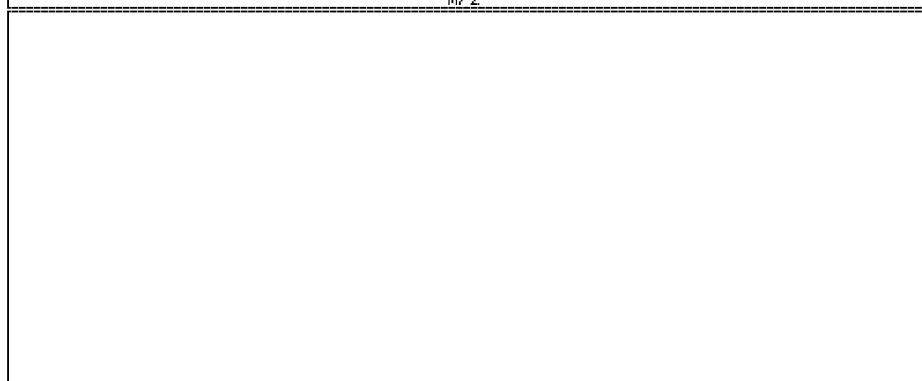
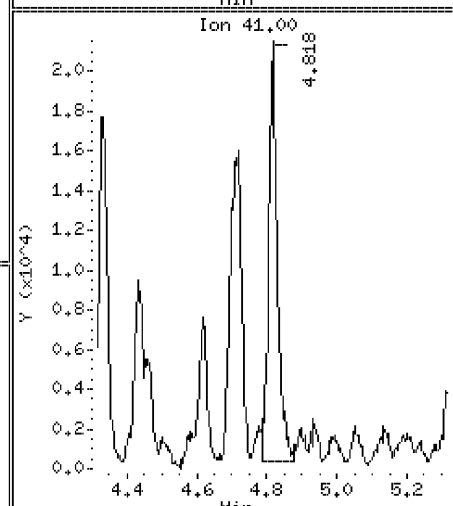
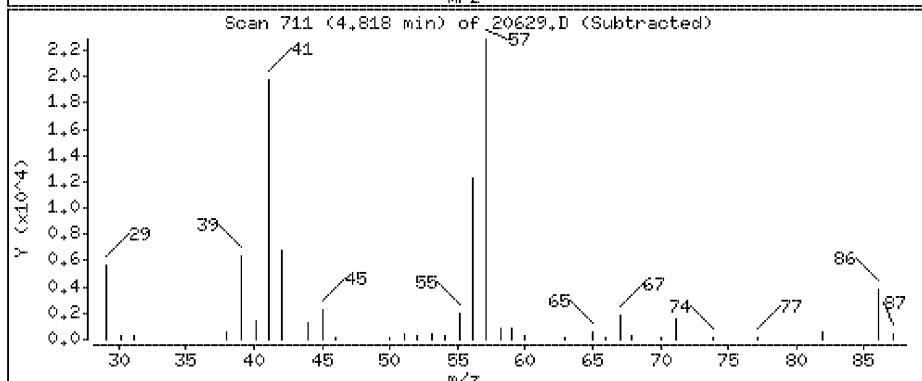
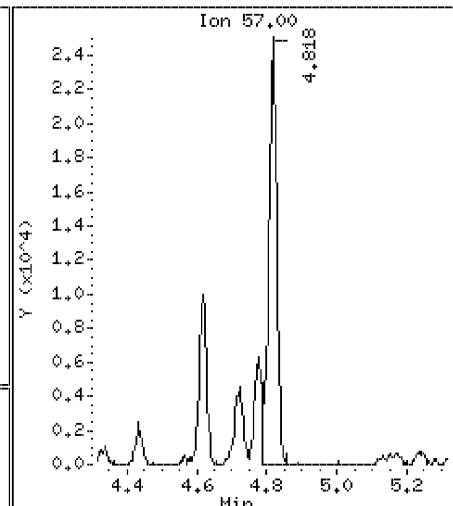
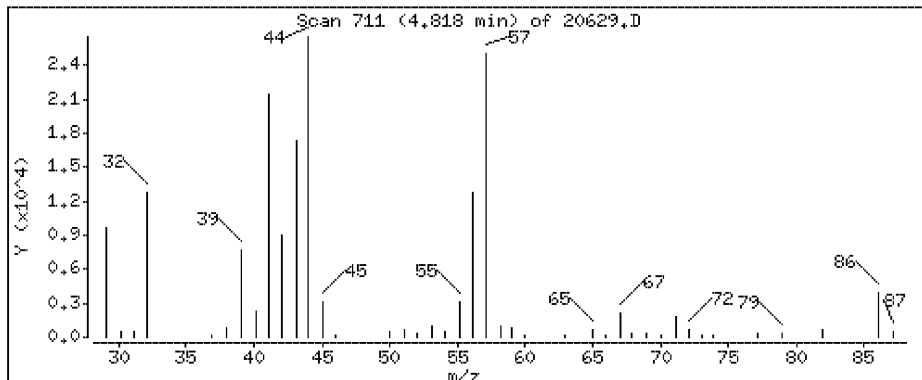
Column phase: J&W DB-5

Column diameter: 0.32

27 Methyl Ethyl Ketone

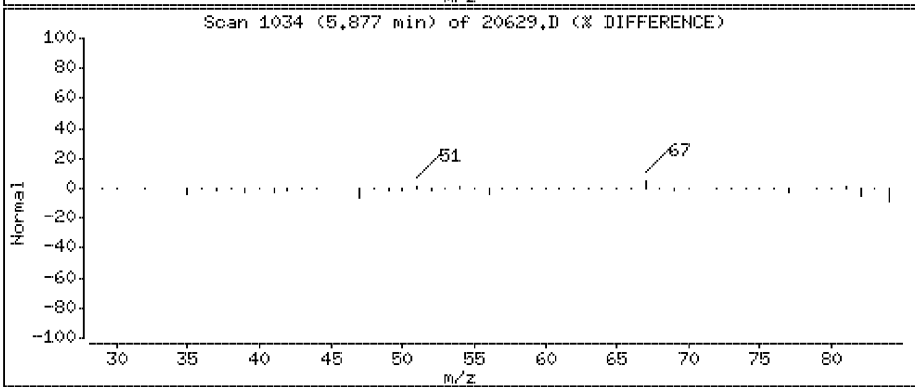
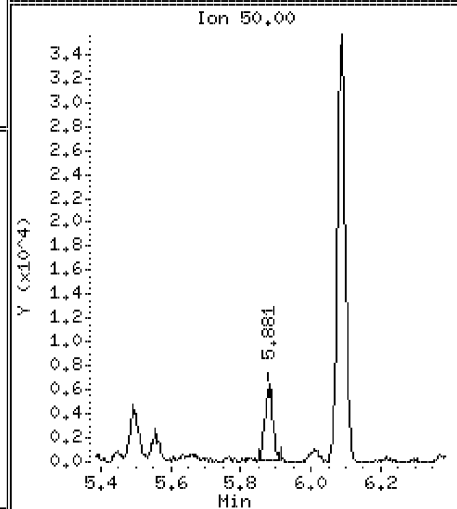
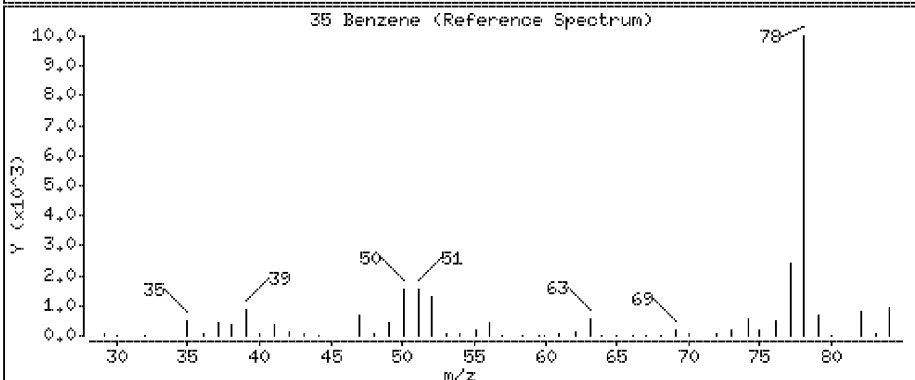
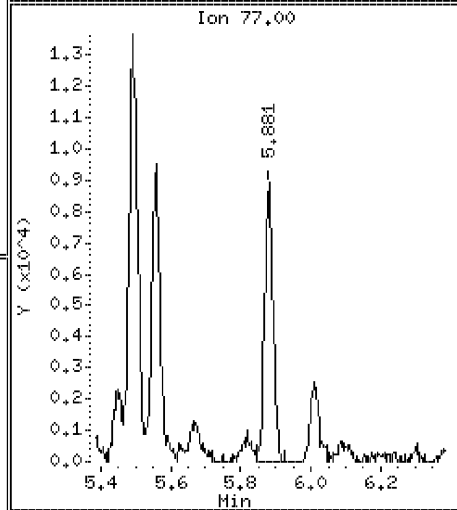
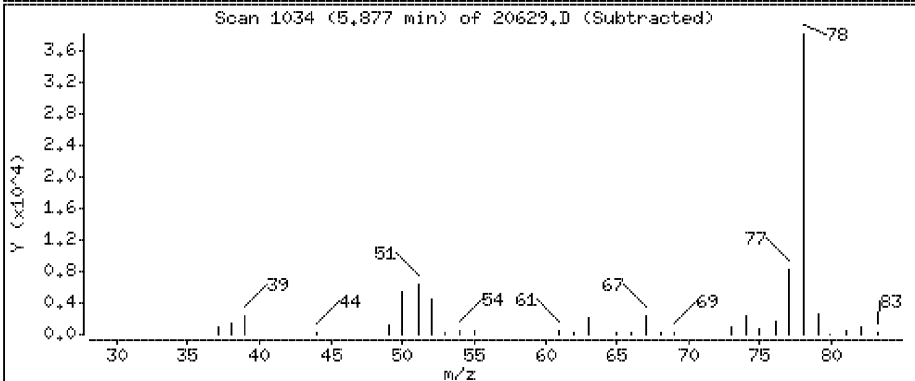
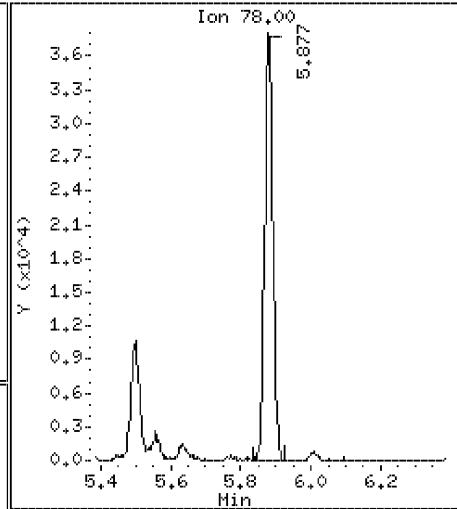
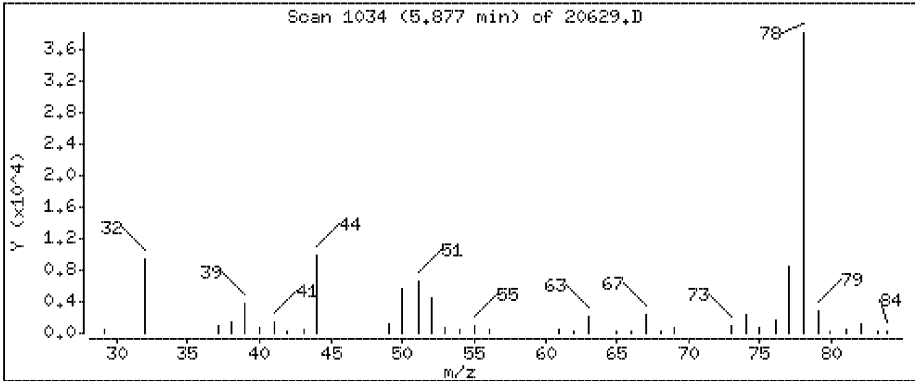
Concentration: 4.75 ppbv

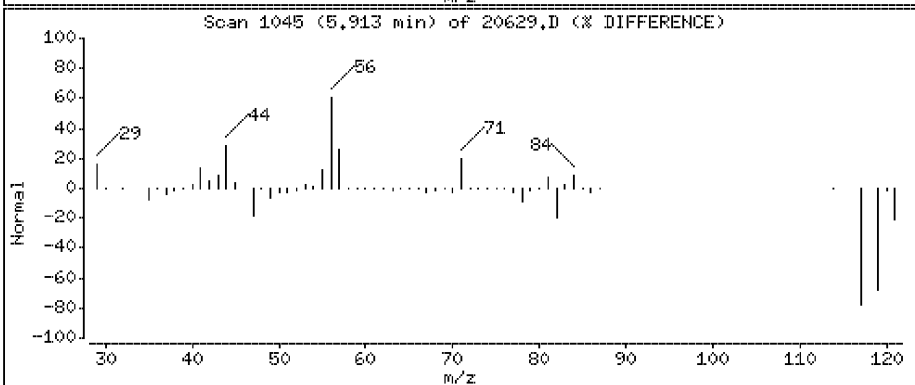
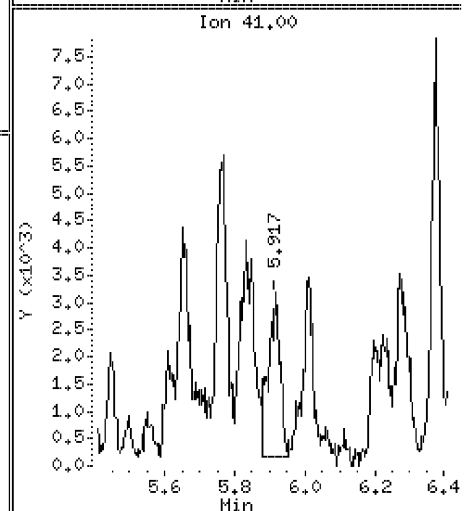
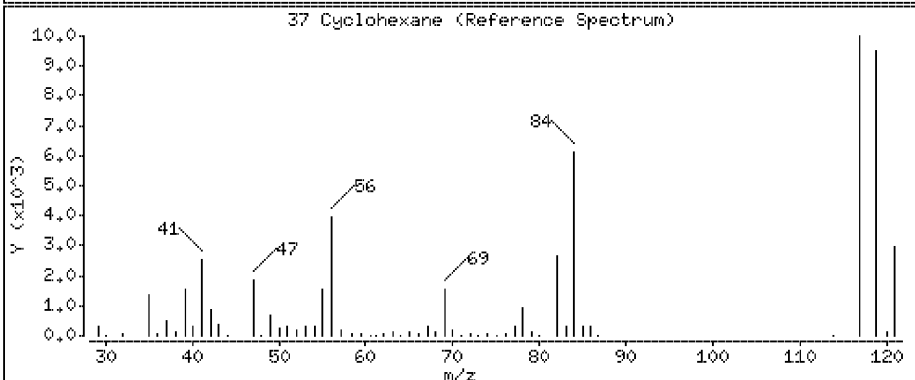
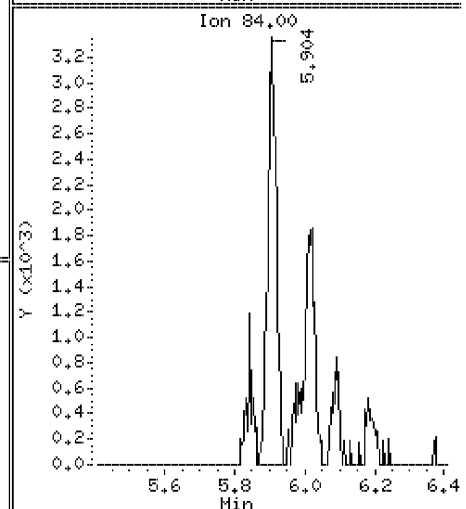
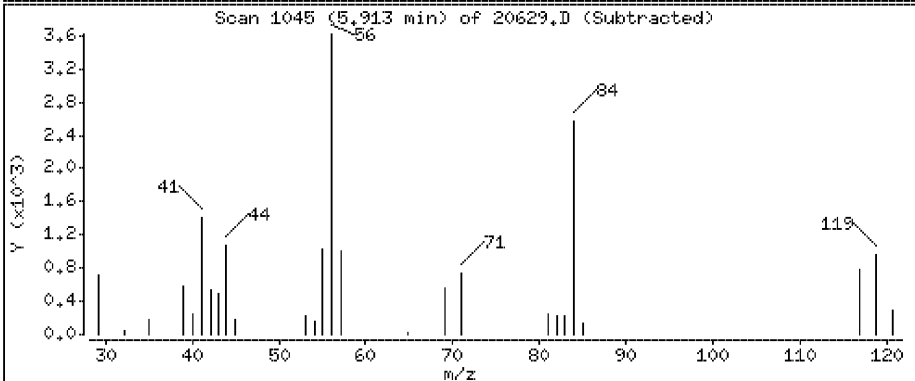
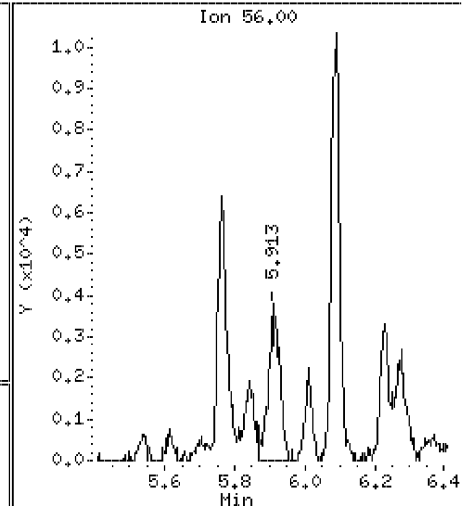
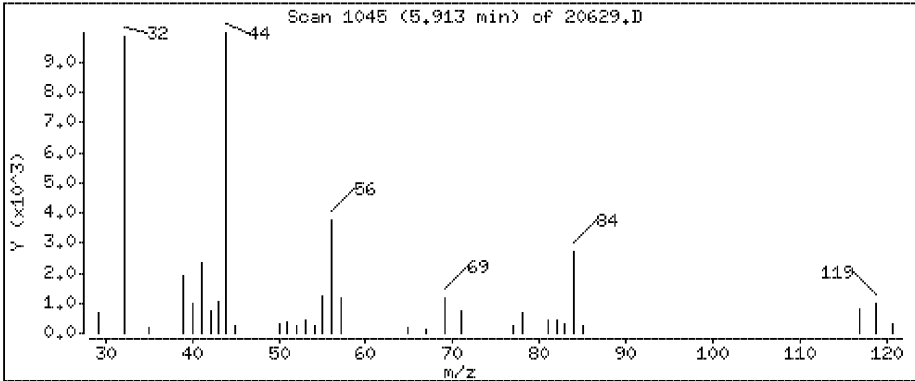


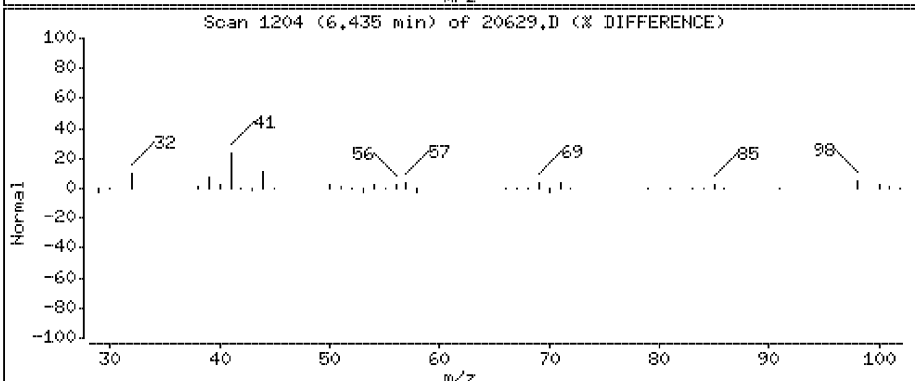
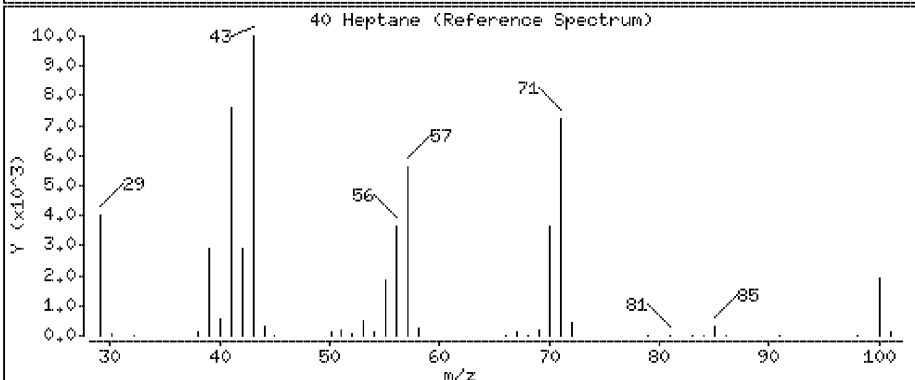
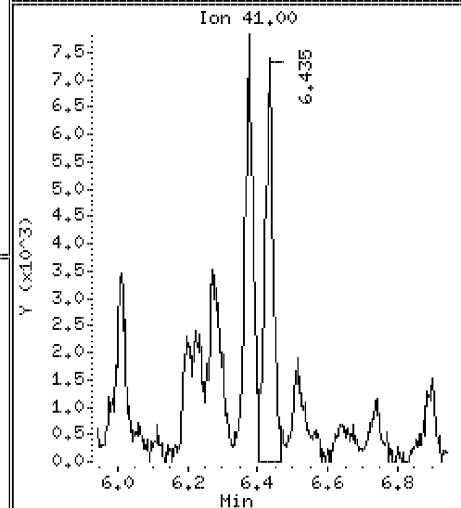
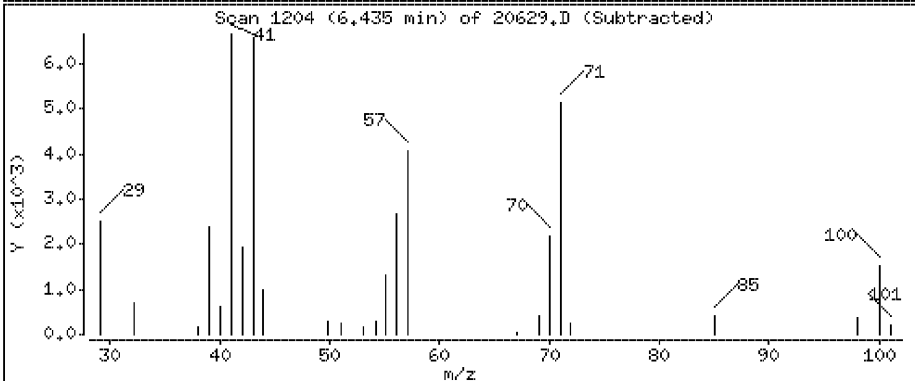
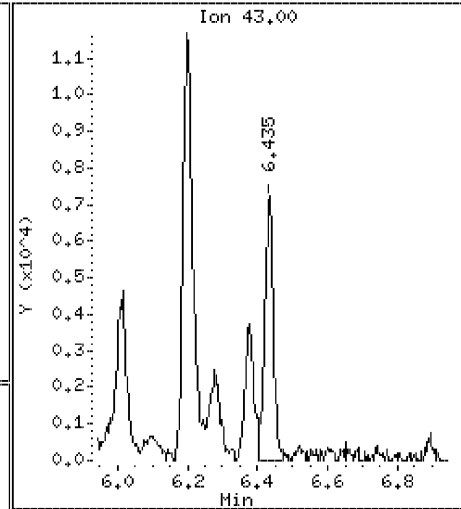
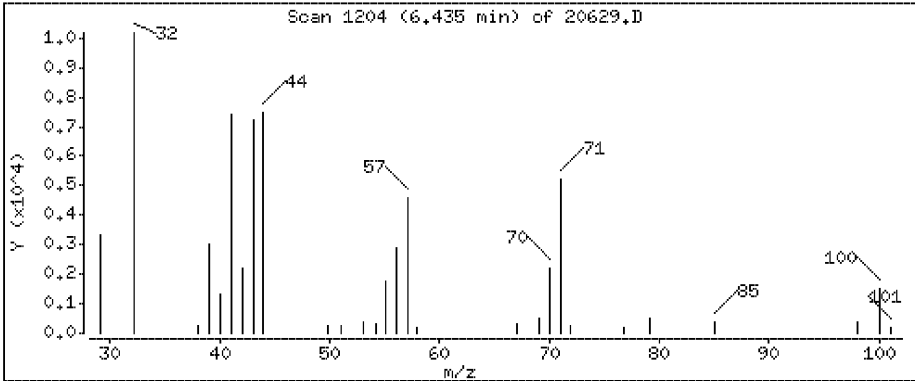


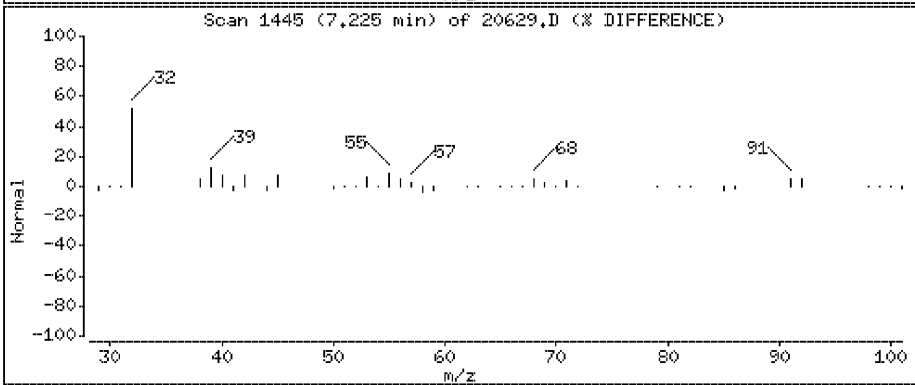
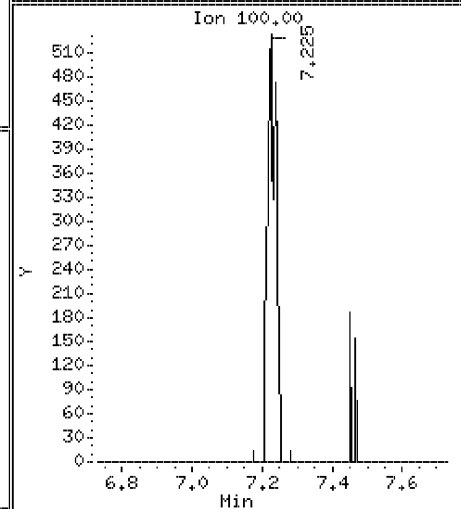
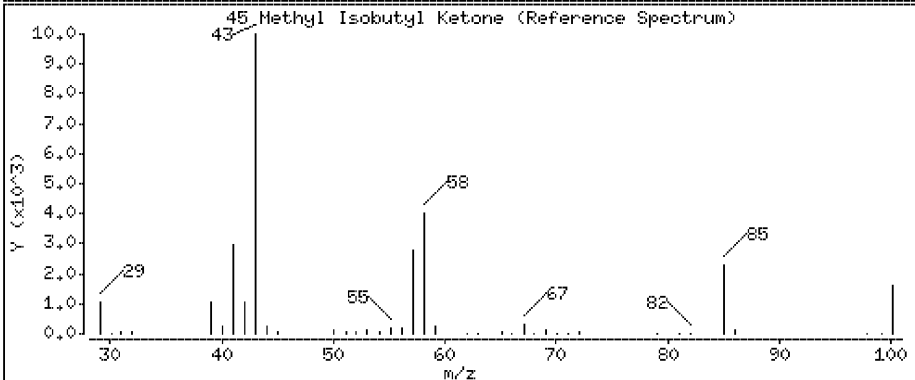
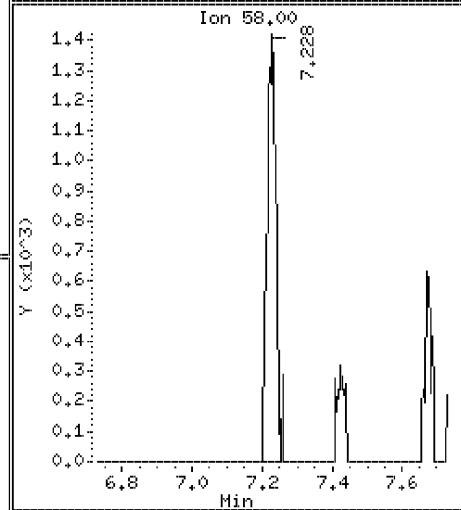
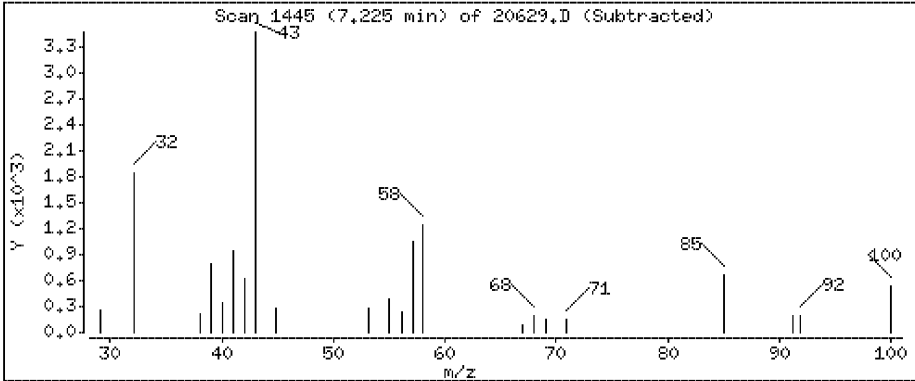
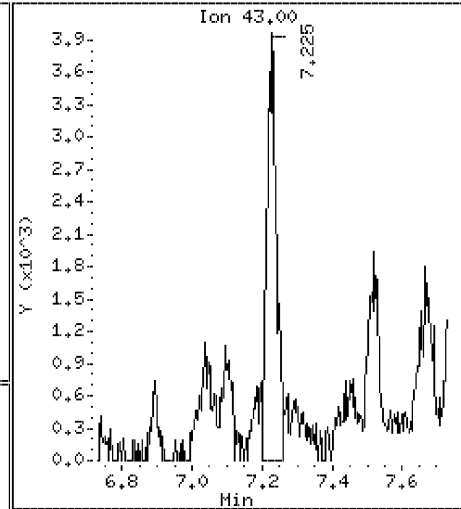
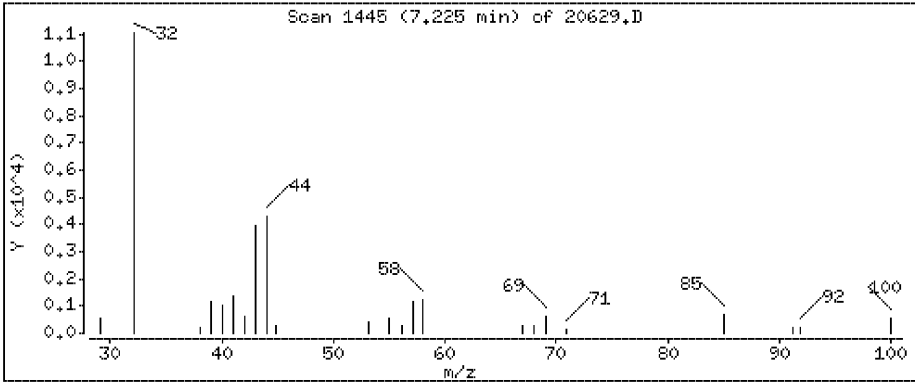
35 Benzene

Concentration: 1.86 ppbv









Data File: \\192.168.10.12\chem\10airD,1\072513,b\20629.D

Date : 26-JUL-2013 03:02

Client ID:

Instrument: 10airD.i

Sample Info:

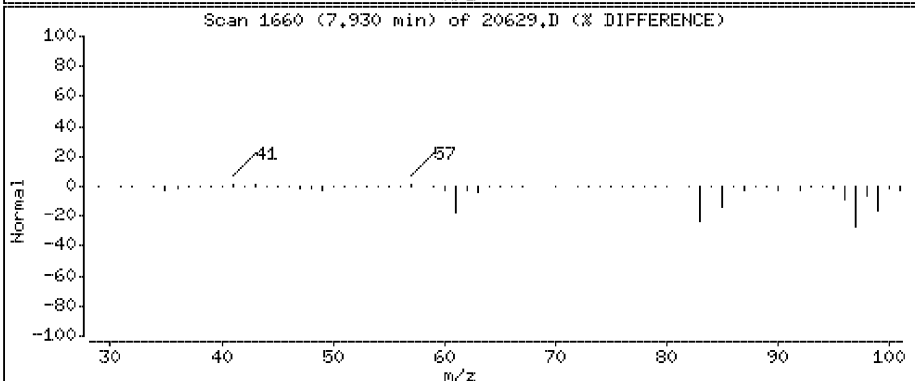
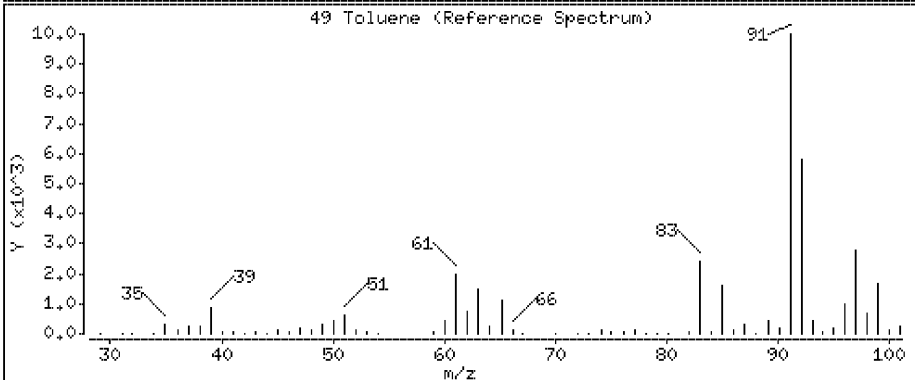
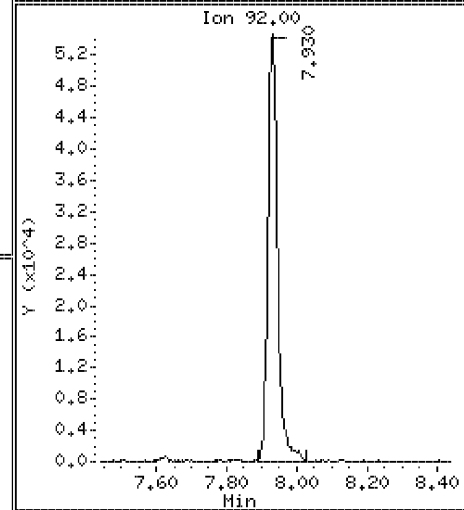
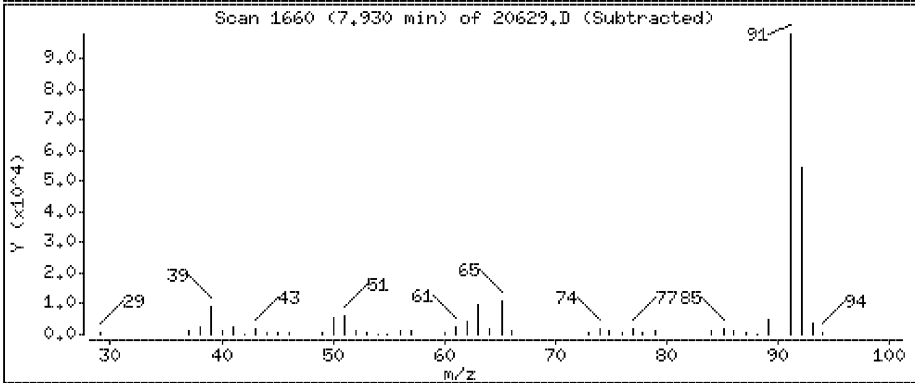
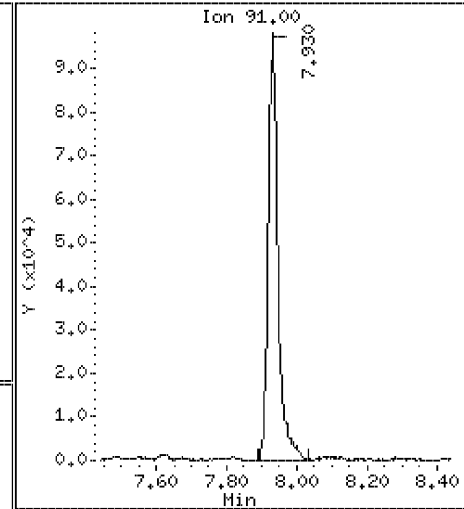
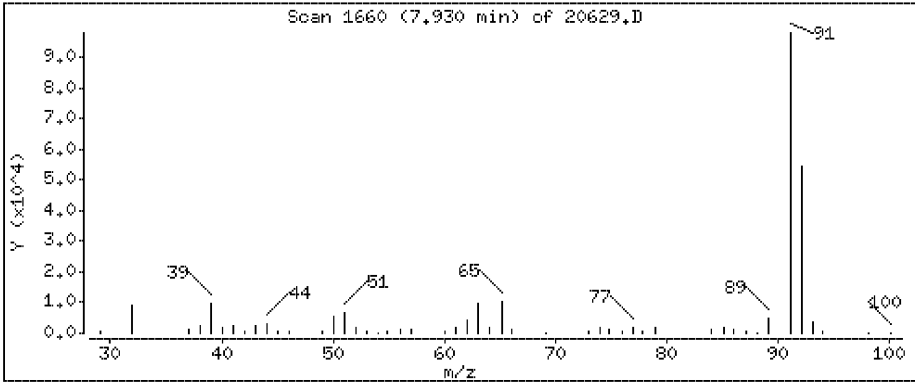
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

49 Toluene

Concentration: 3.66 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20629.D

Date : 26-JUL-2013 03:02

Client ID:

Instrument: 10airD.i

Sample Info:

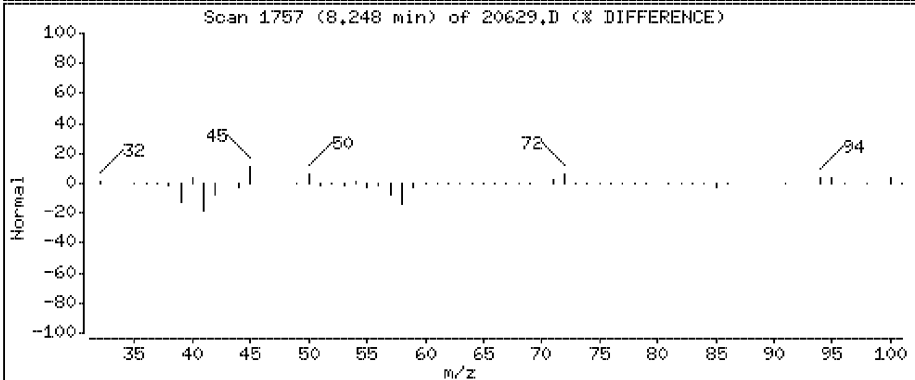
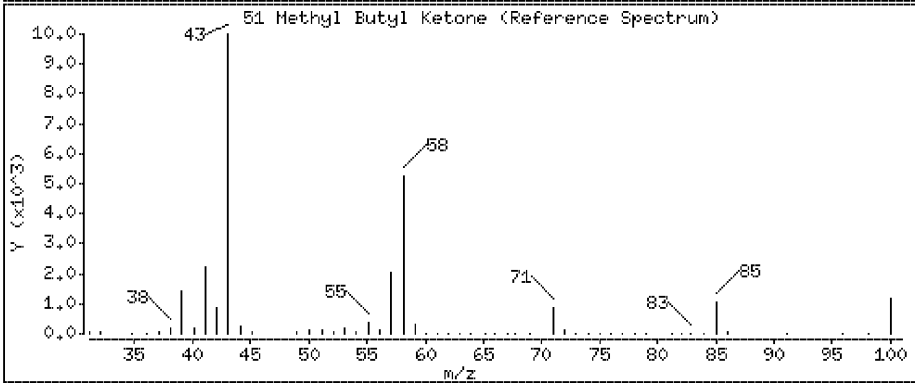
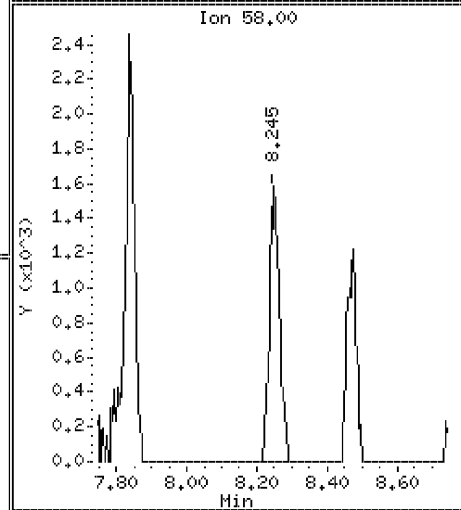
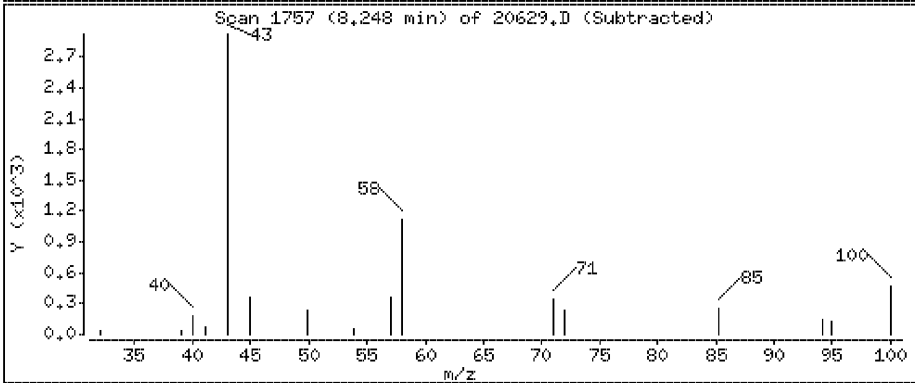
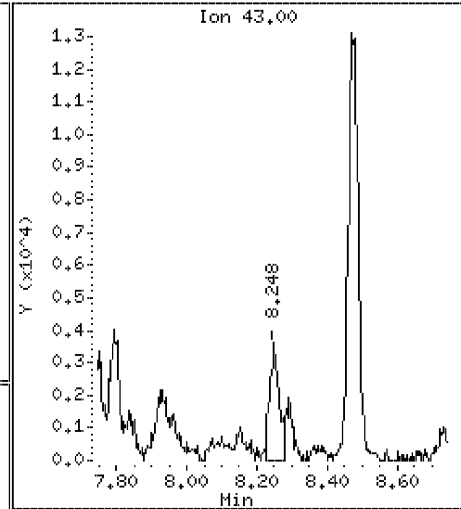
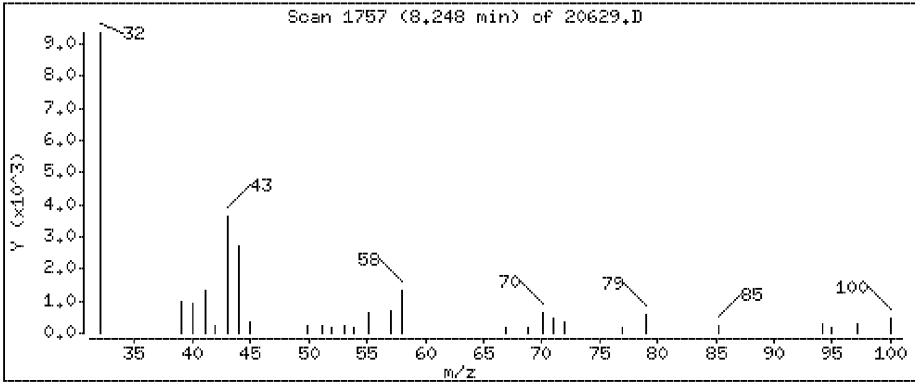
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

51 Methyl Butyl Ketone

Concentration: 0.739 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20629.D

Date : 26-JUL-2013 03:02

Client ID:

Instrument: 10airD.i

Sample Info:

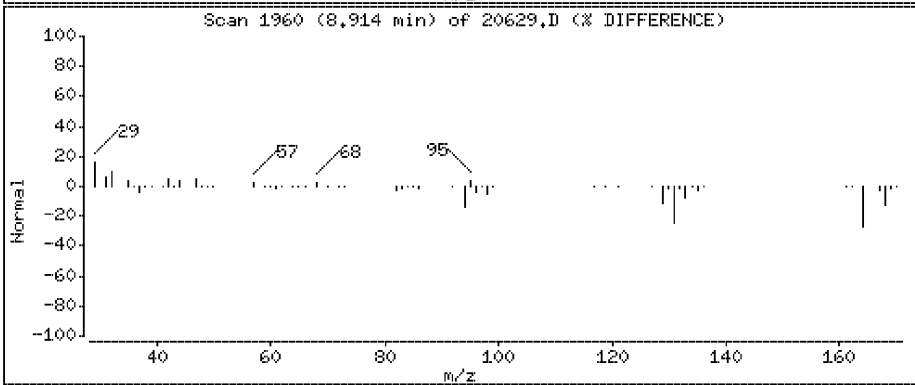
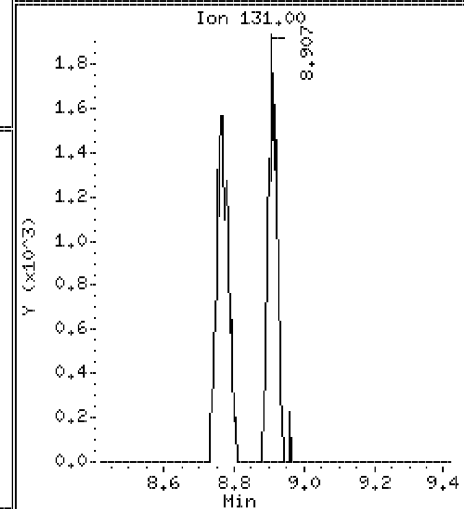
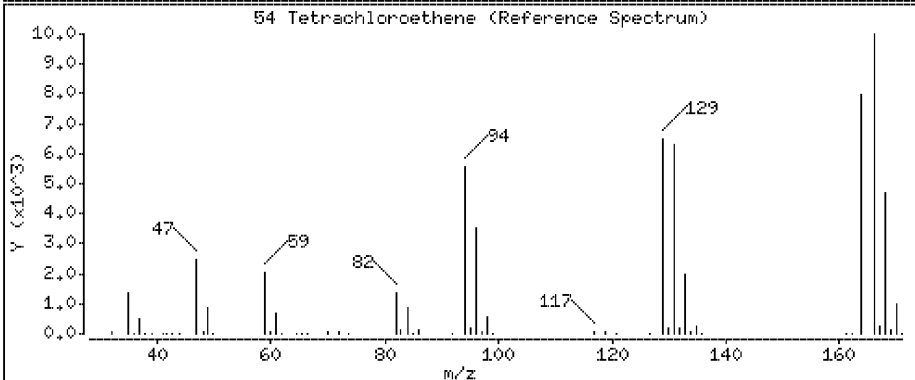
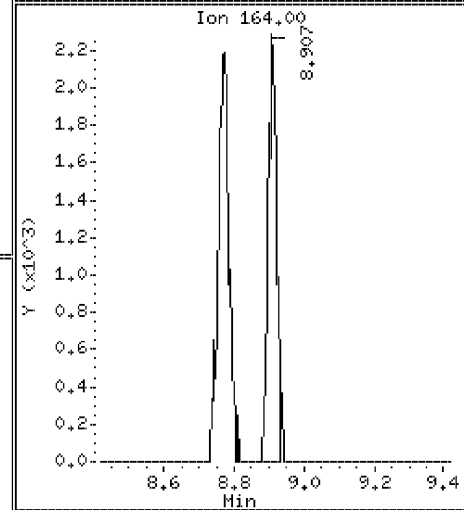
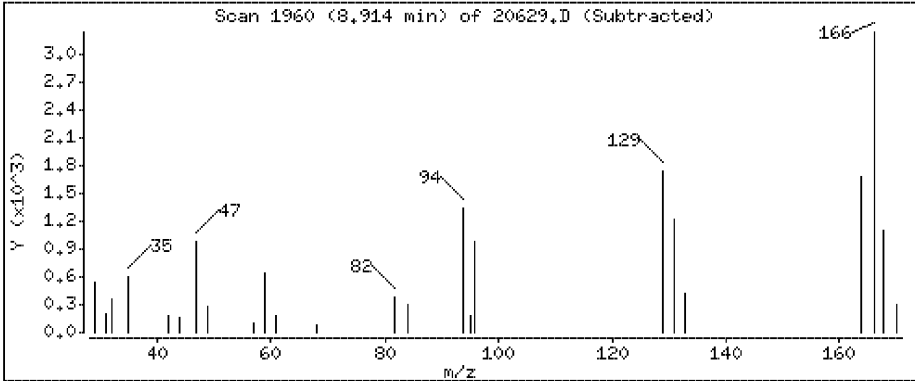
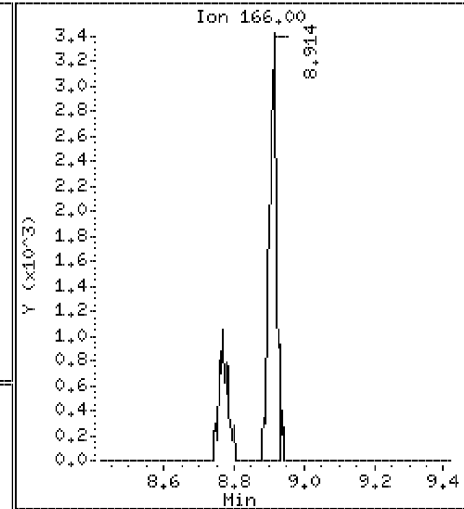
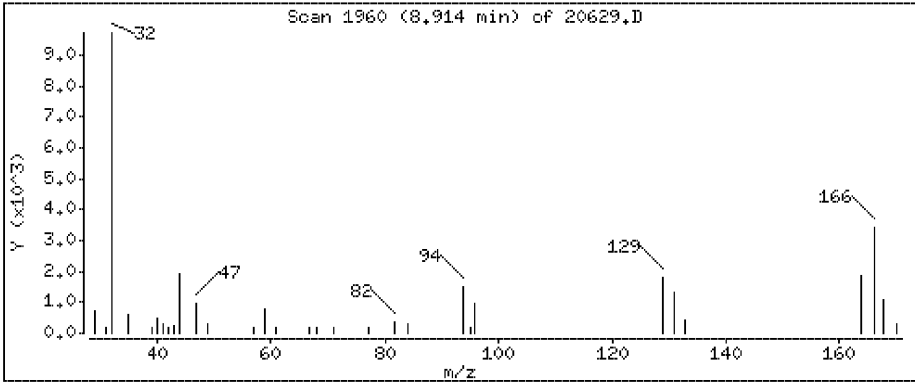
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

54 Tetrachloroethene

Concentration: 0.704 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20629.D

Date : 26-JUL-2013 03:02

Client ID:

Instrument: 10airD.i

Sample Info:

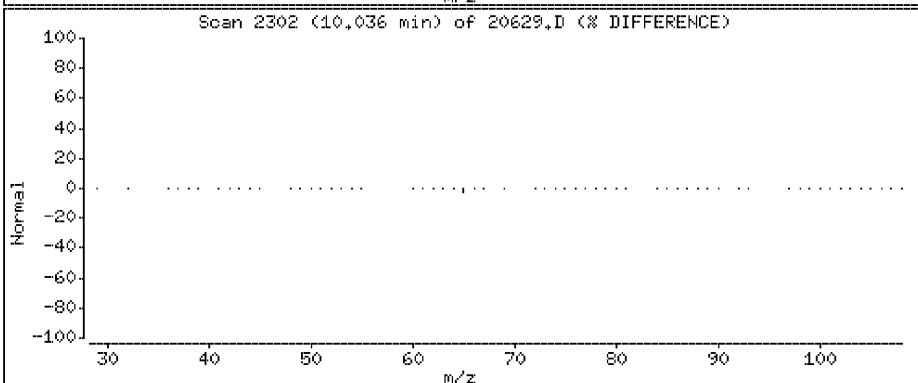
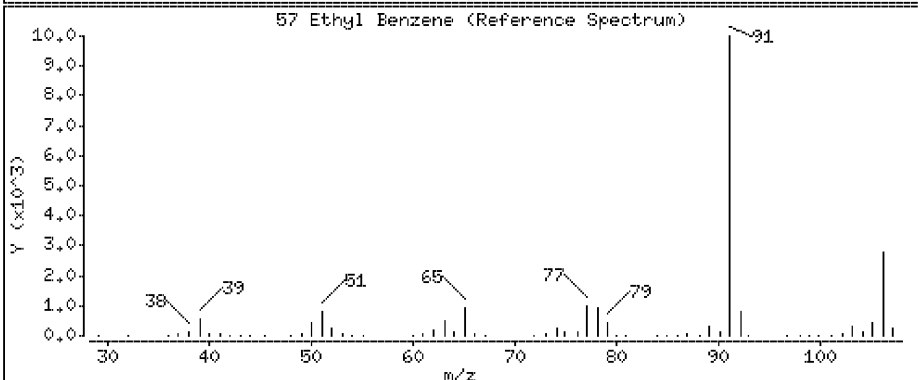
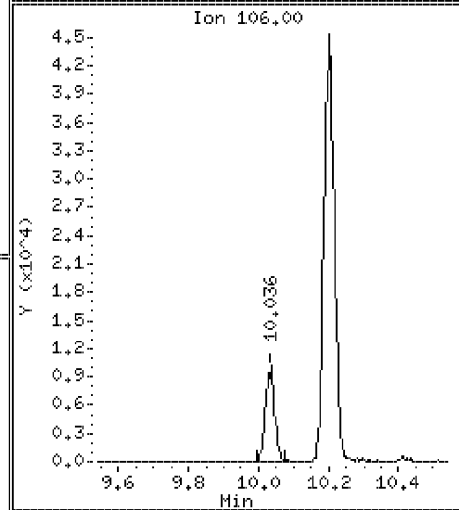
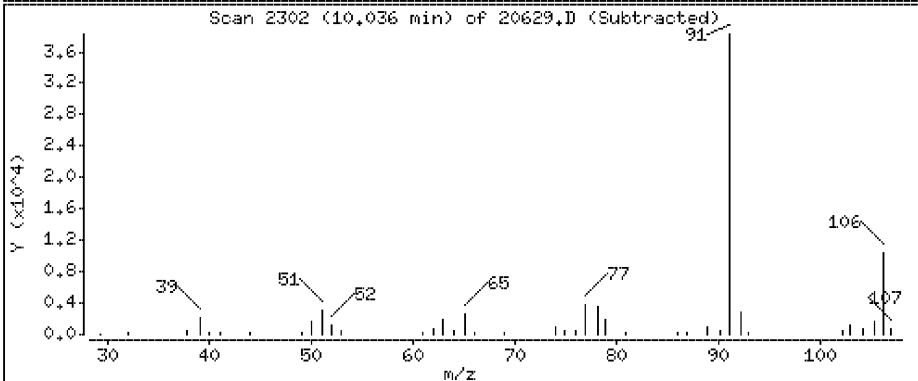
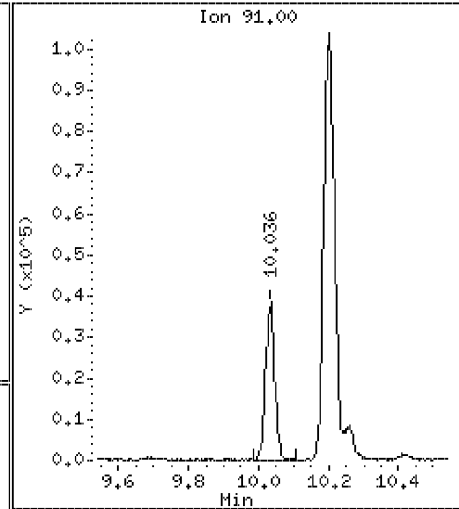
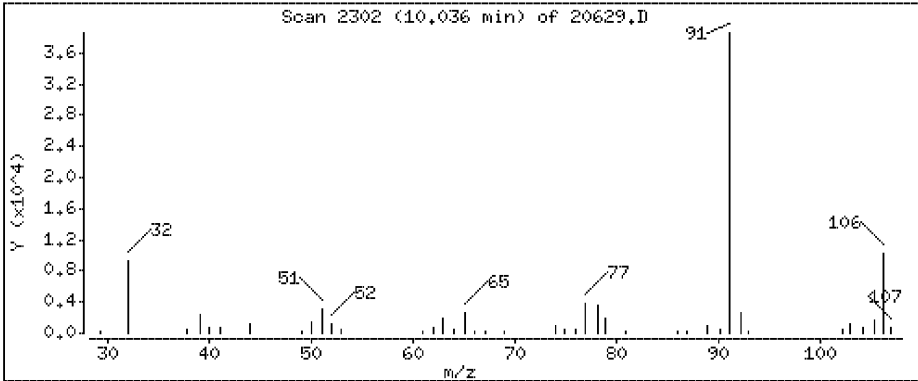
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

57 Ethyl Benzene

Concentration: 1.36 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20629.D

Date : 26-JUL-2013 03:02

Client ID:

Instrument: 10airD.i

Sample Info:

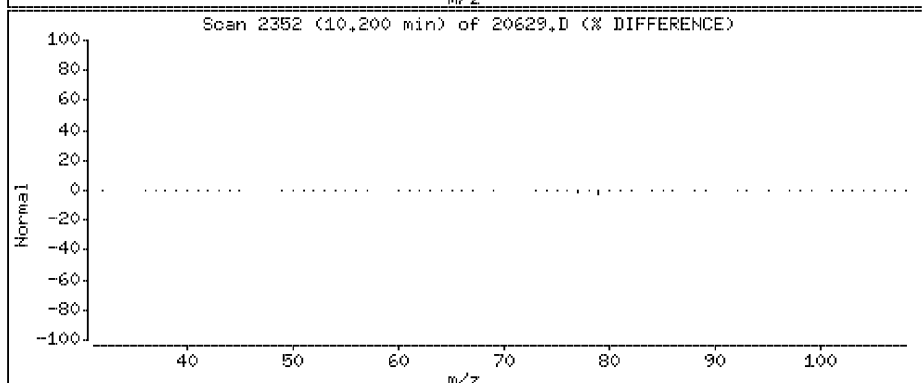
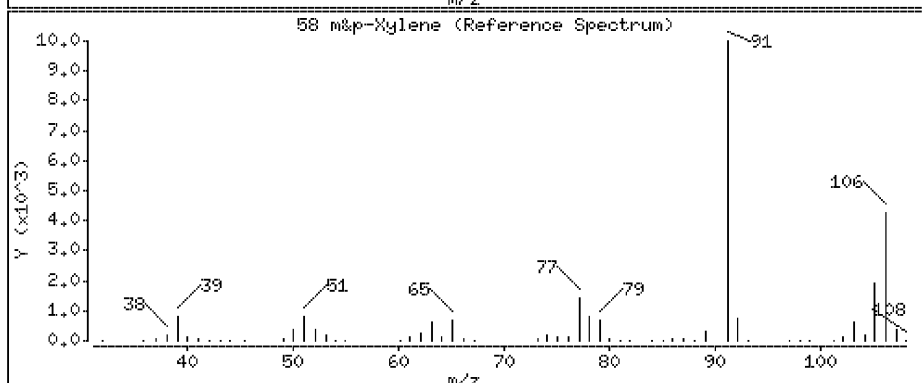
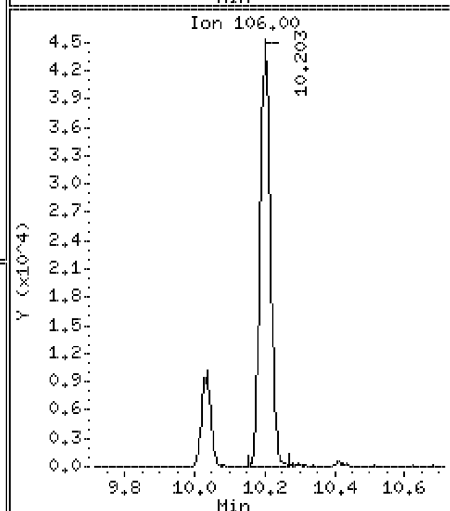
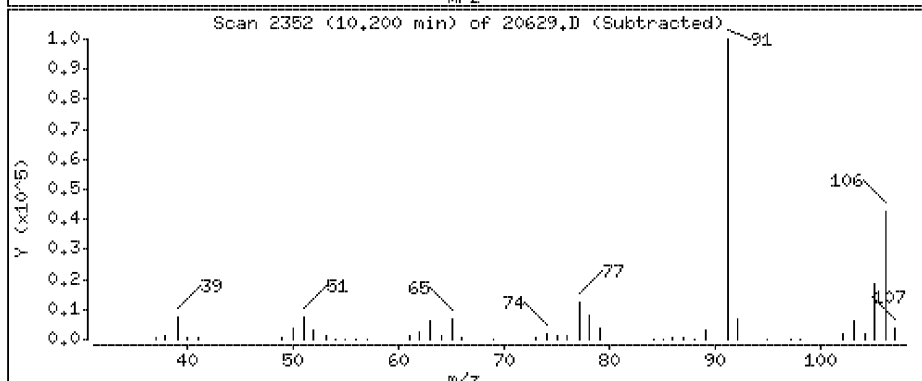
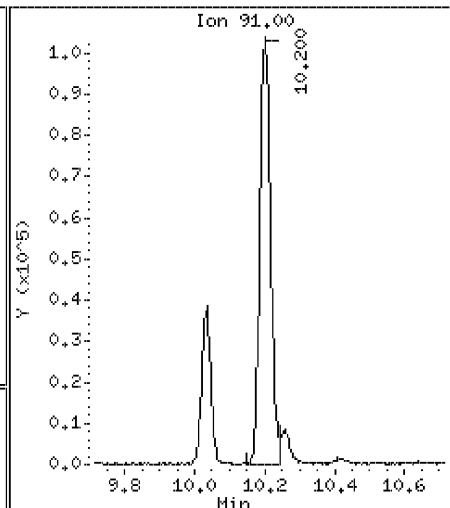
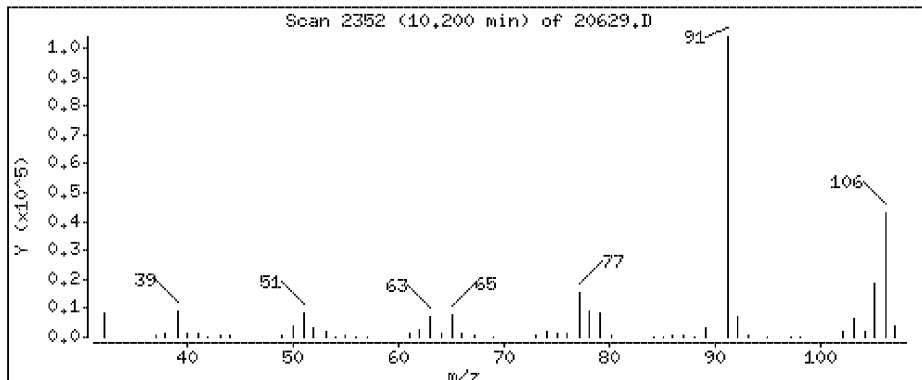
Operator: DR1

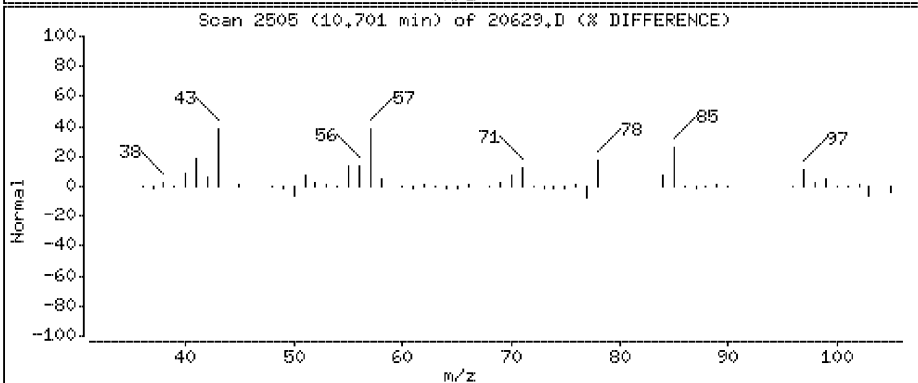
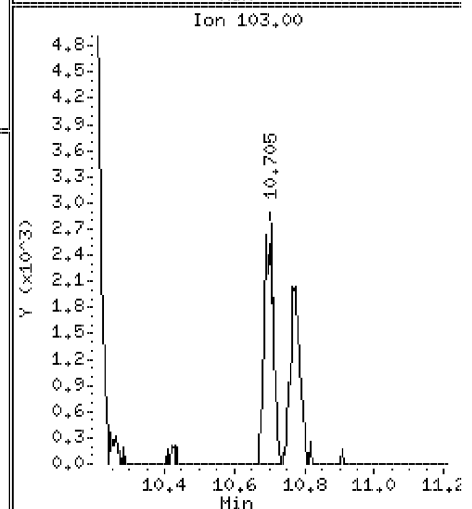
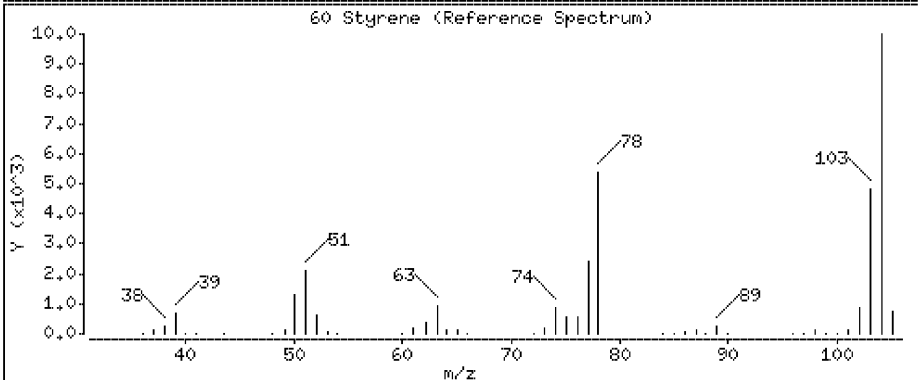
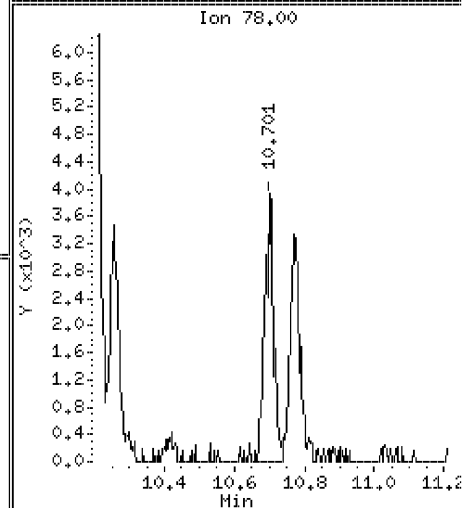
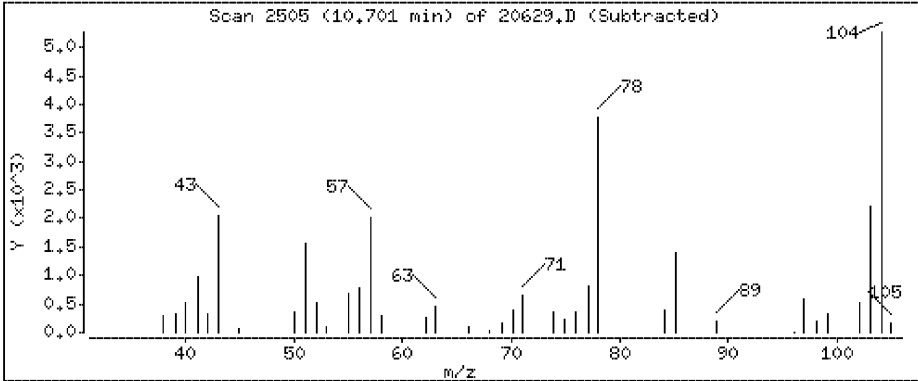
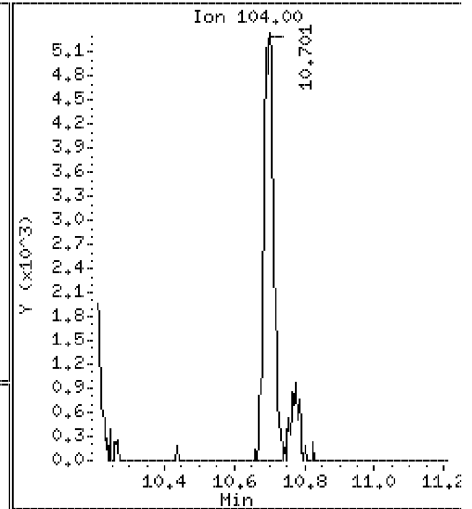
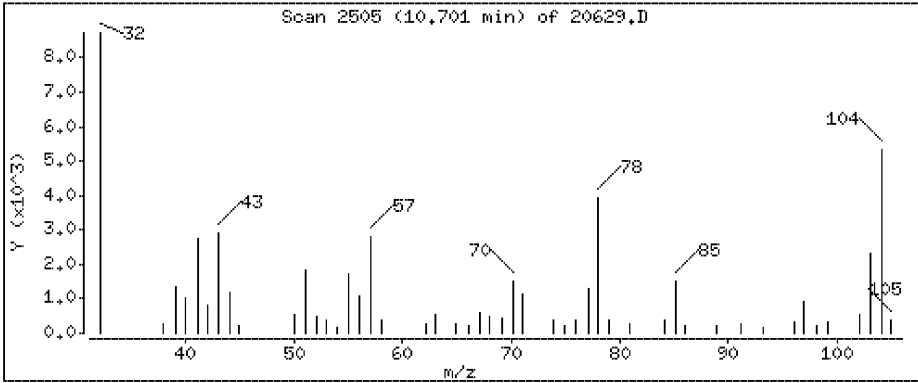
Column phase: J&W DB-5

Column diameter: 0.32

58 m&p-Xylene

Concentration: 4.01 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20629.D

Date : 26-JUL-2013 03:02

Client ID:

Instrument: 10airD.i

Sample Info:

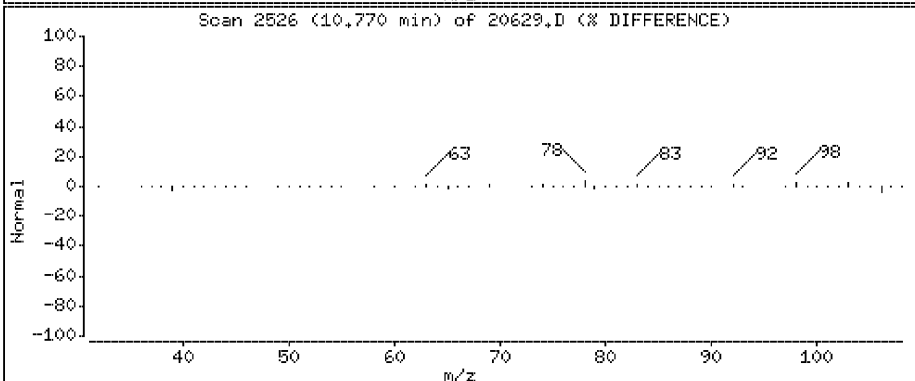
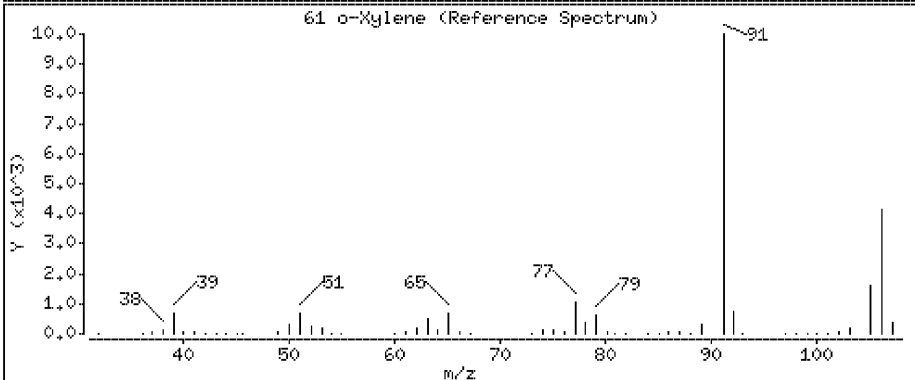
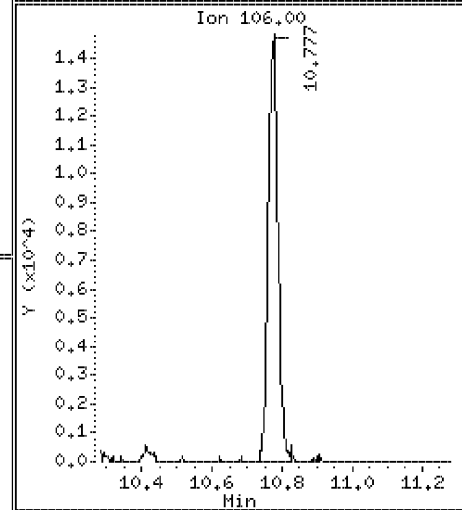
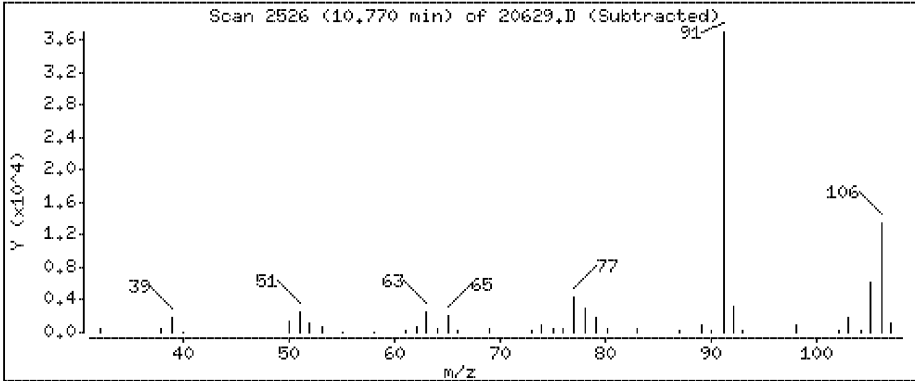
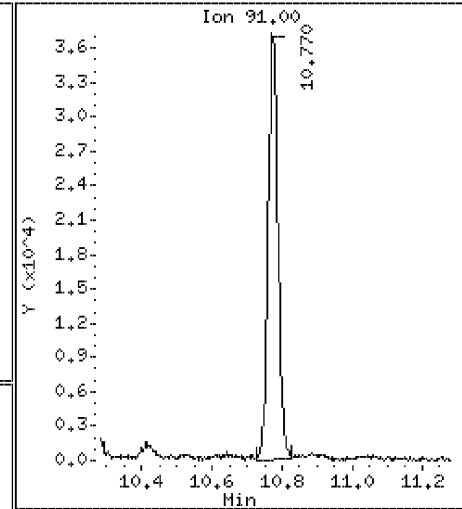
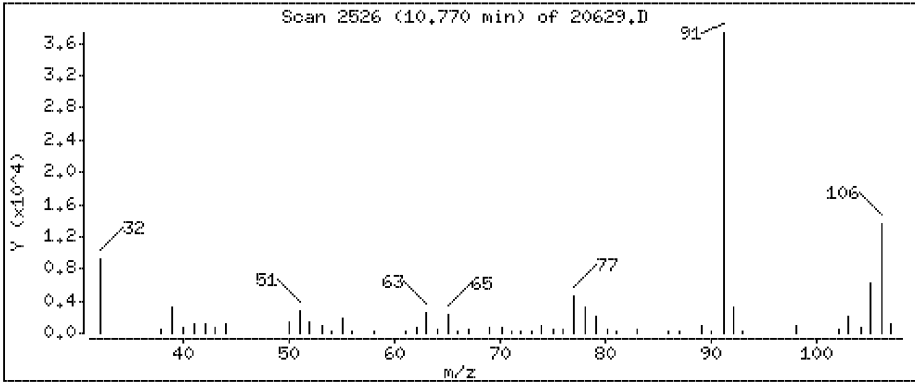
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

61 o-Xylene

Concentration: 1.43 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20629.D

Date : 26-JUL-2013 03:02

Client ID:

Instrument: 10airD.i

Sample Info:

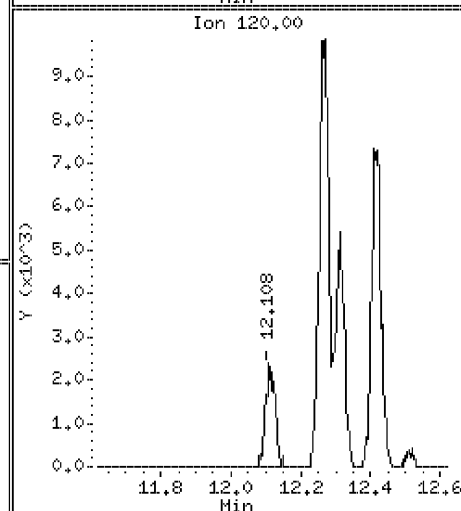
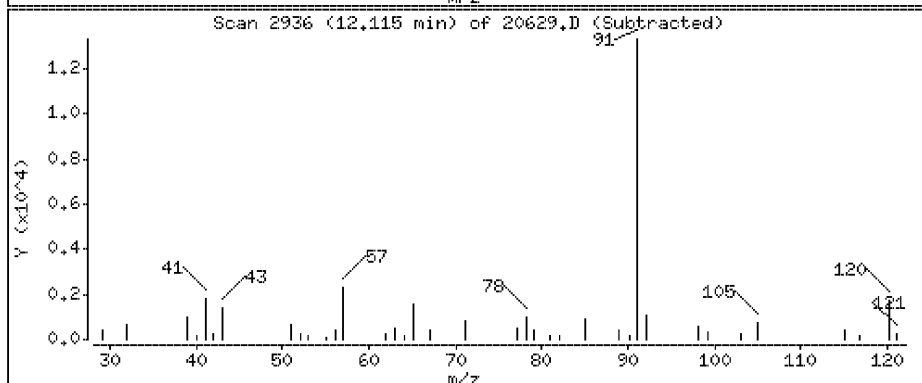
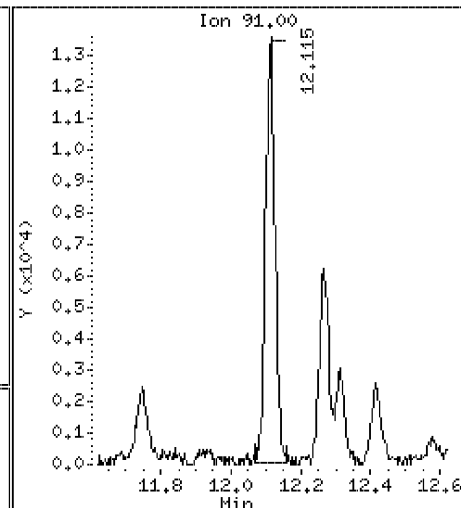
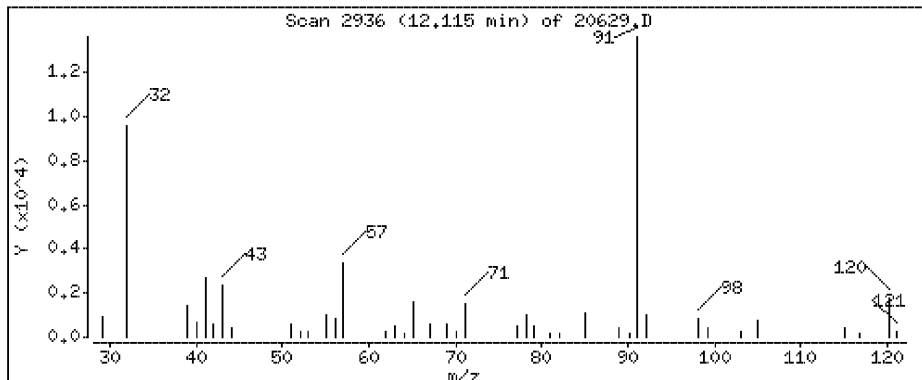
Operator: DR1

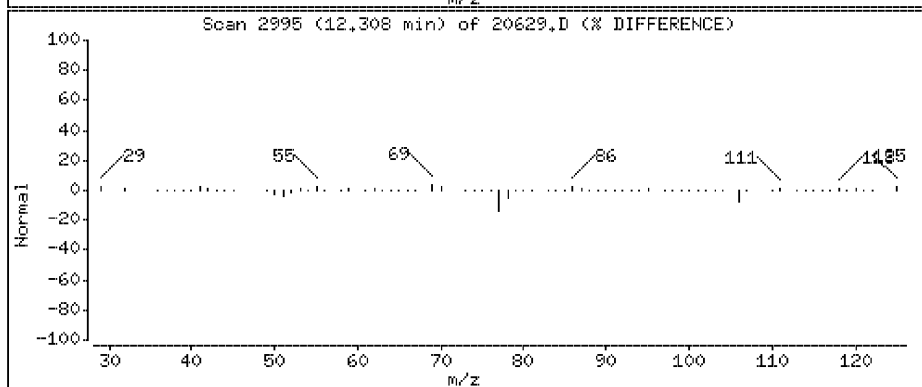
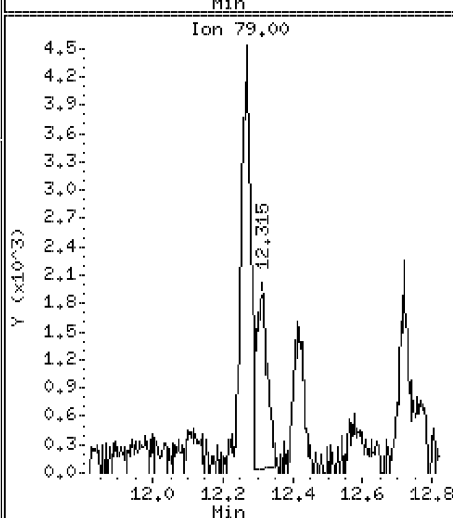
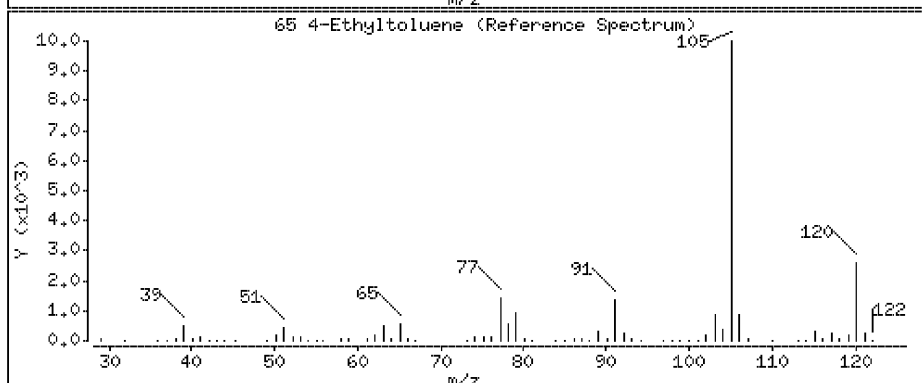
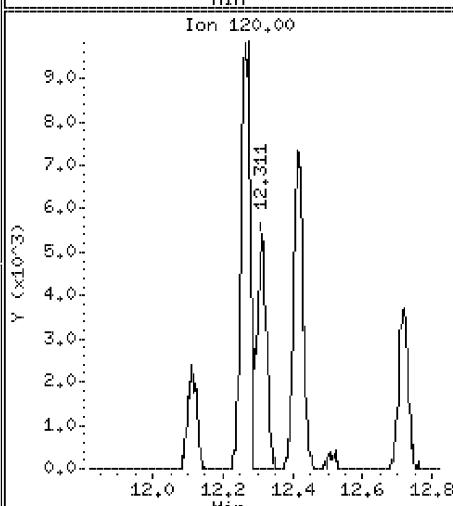
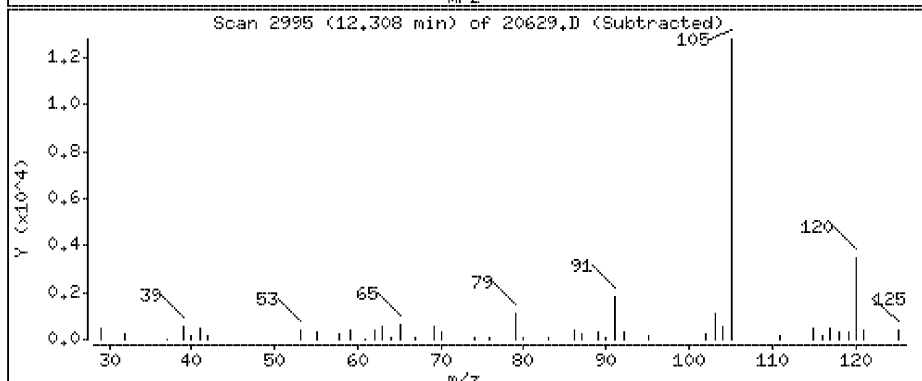
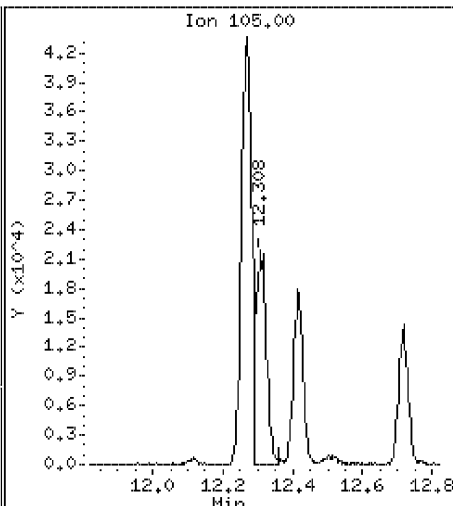
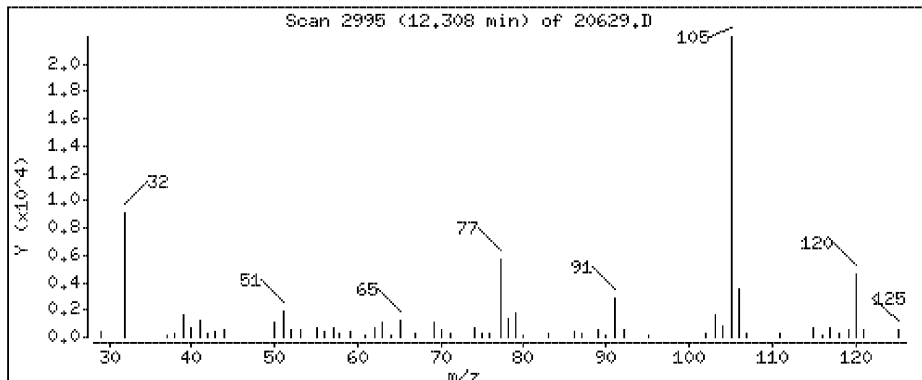
Column phase: J&W DB-5

Column diameter: 0.32

64 N-Propylbenzene

Concentration: 0.693 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20629.D

Date : 26-JUL-2013 03:02

Client ID:

Instrument: 10airD.i

Sample Info:

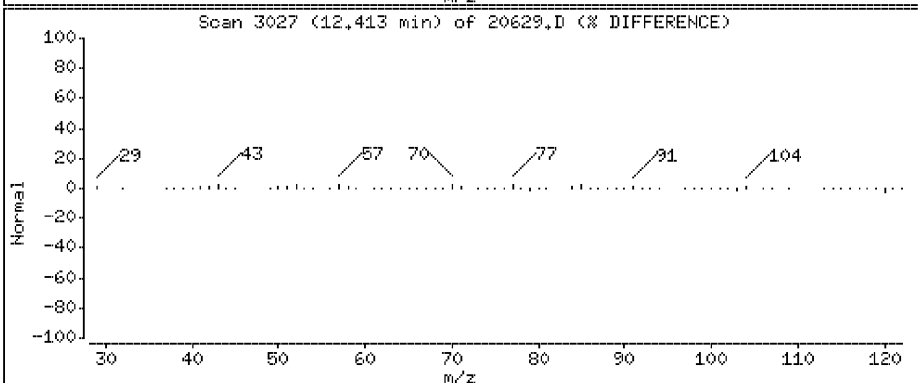
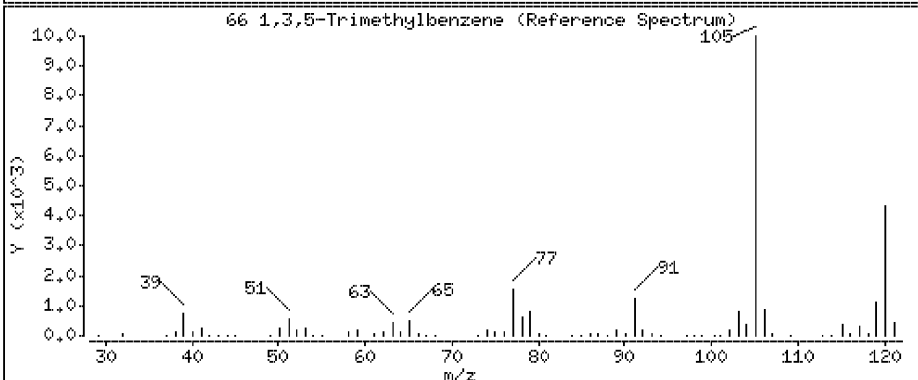
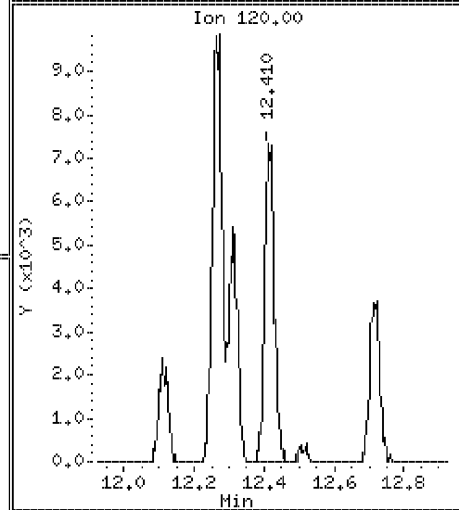
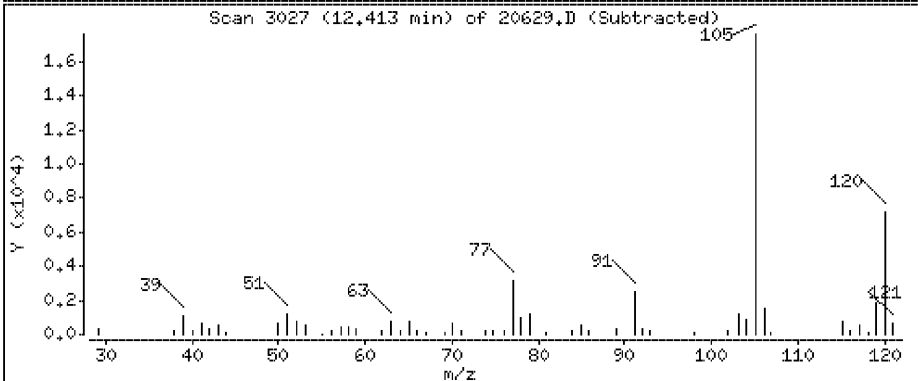
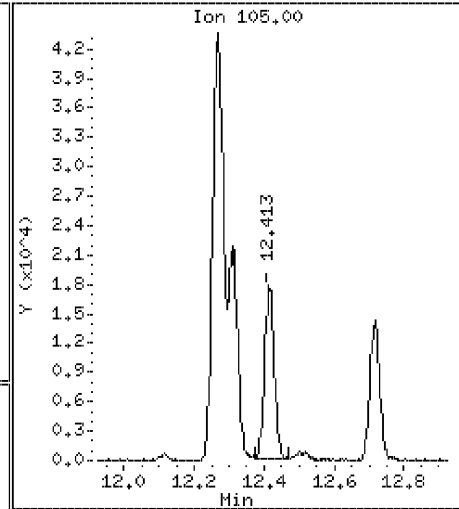
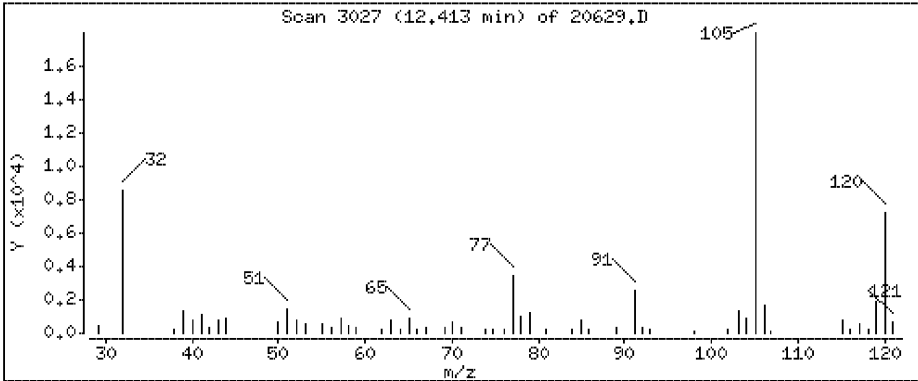
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

66 1,3,5-Trimethylbenzene

Concentration: 0.948 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20629.D

Date : 26-JUL-2013 03:02

Client ID:

Instrument: 10airD.i

Sample Info:

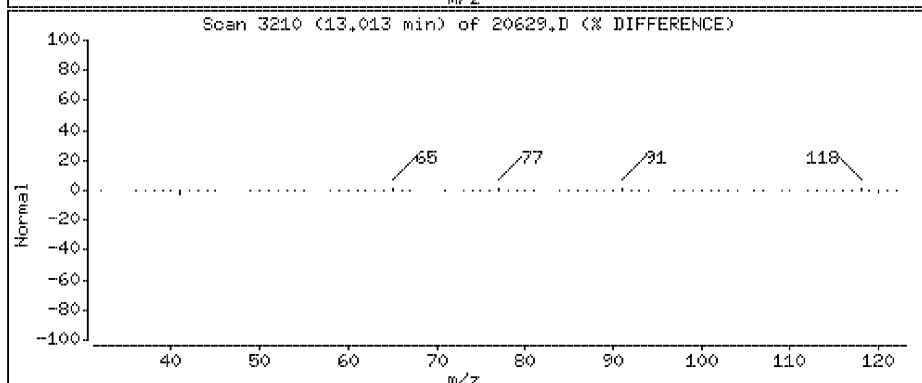
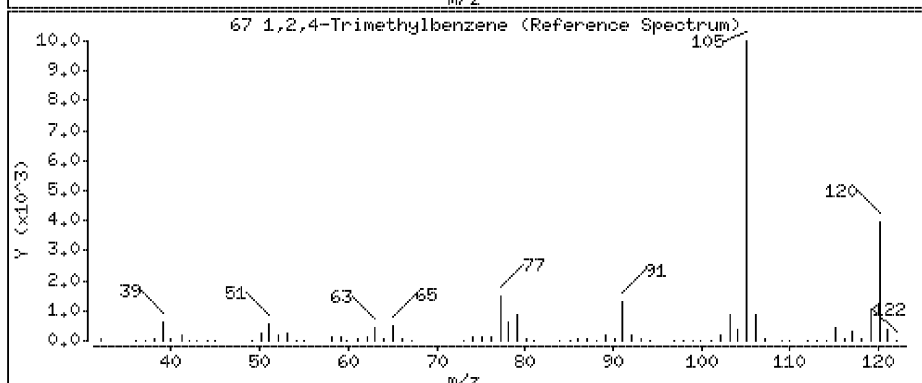
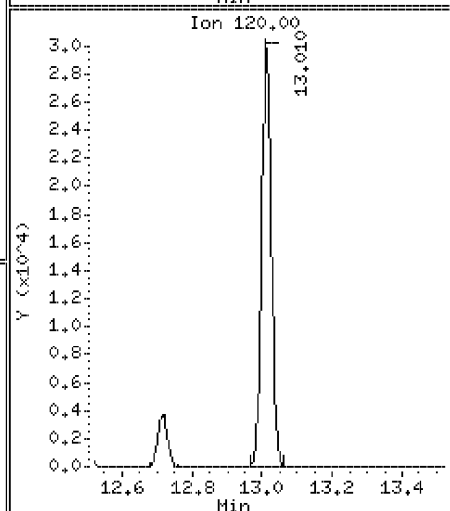
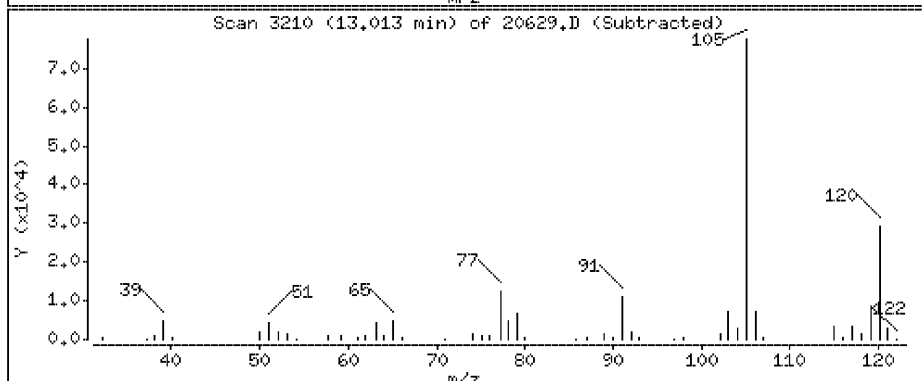
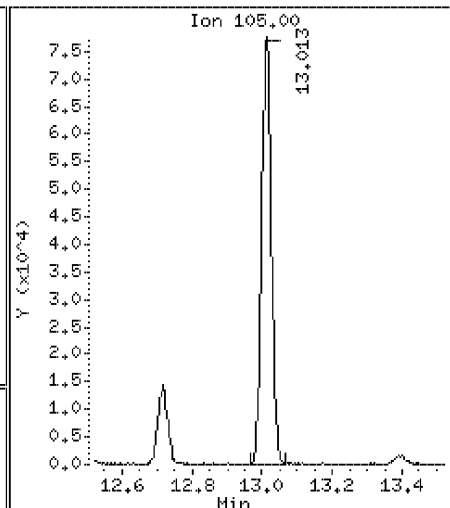
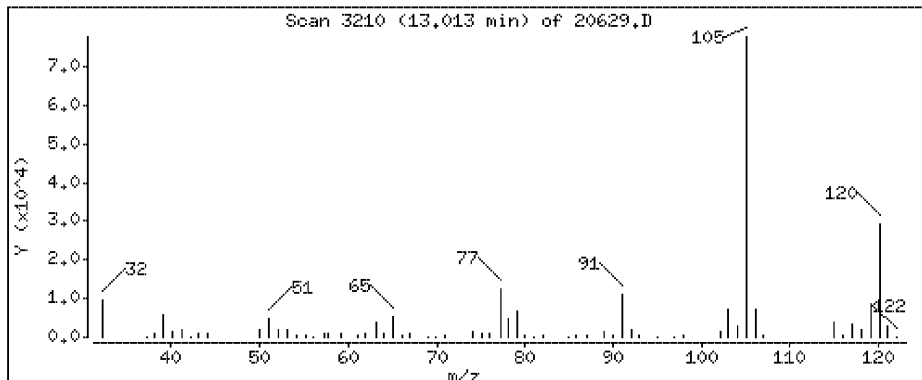
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

67 1,2,4-Trimethylbenzene

Concentration: 2.90 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20629.D

Date : 26-JUL-2013 03:02

Client ID:

Instrument: 10airD.i

Sample Info:

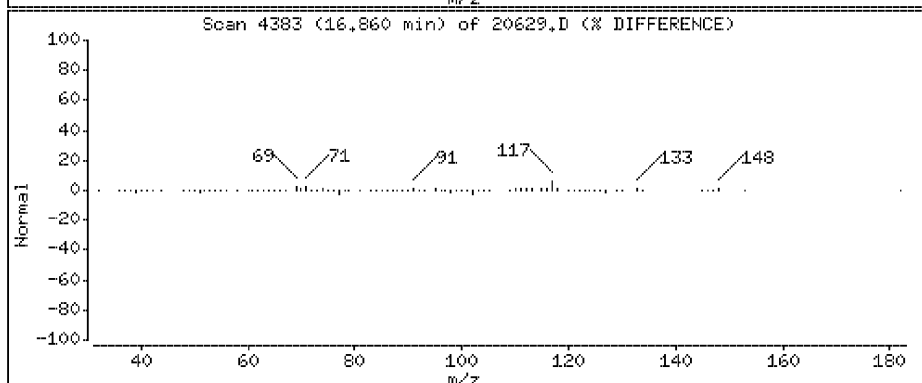
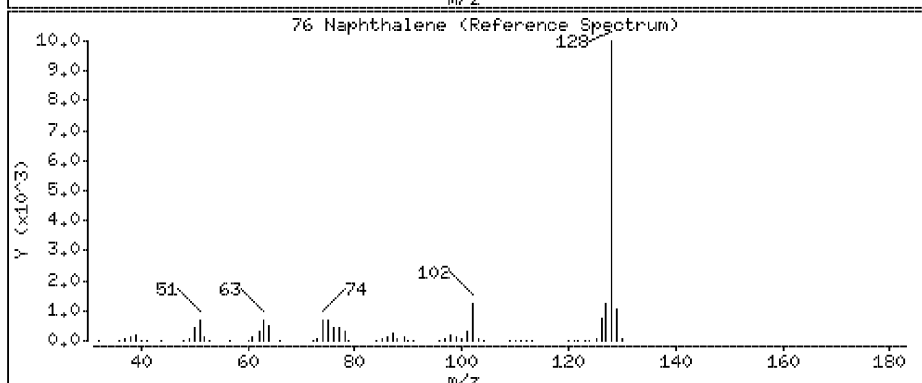
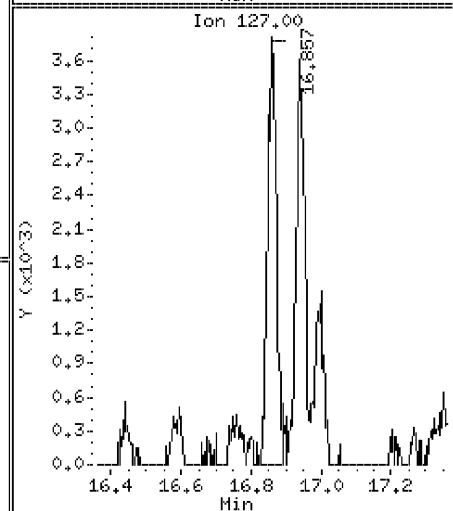
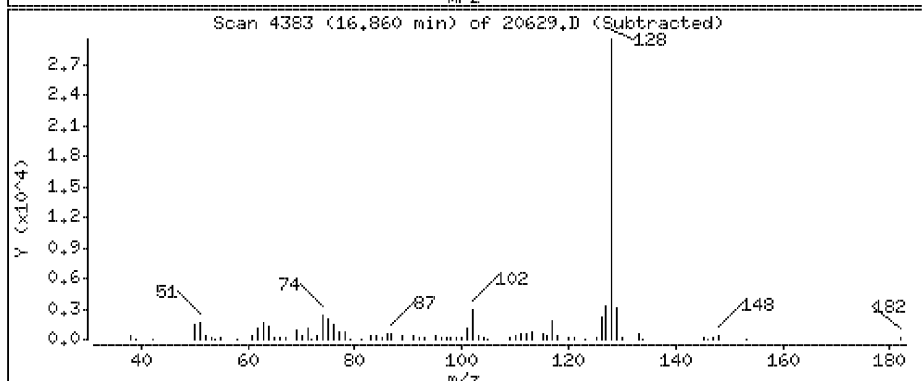
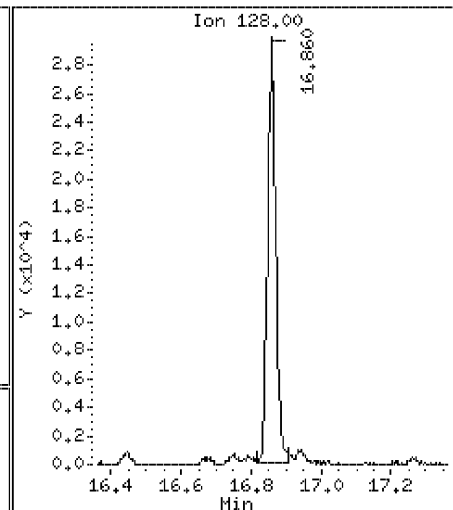
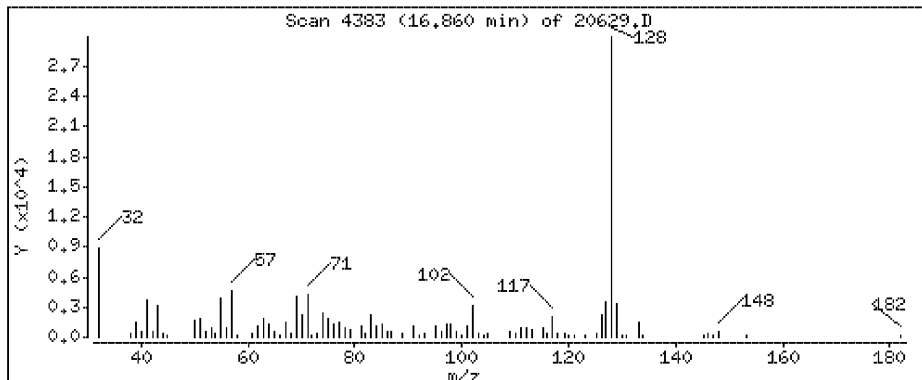
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

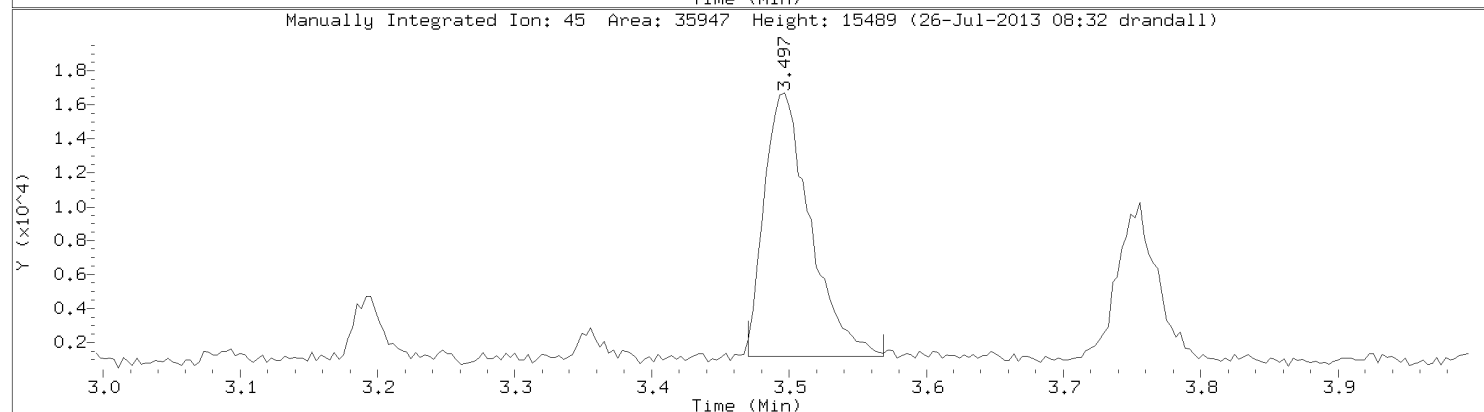
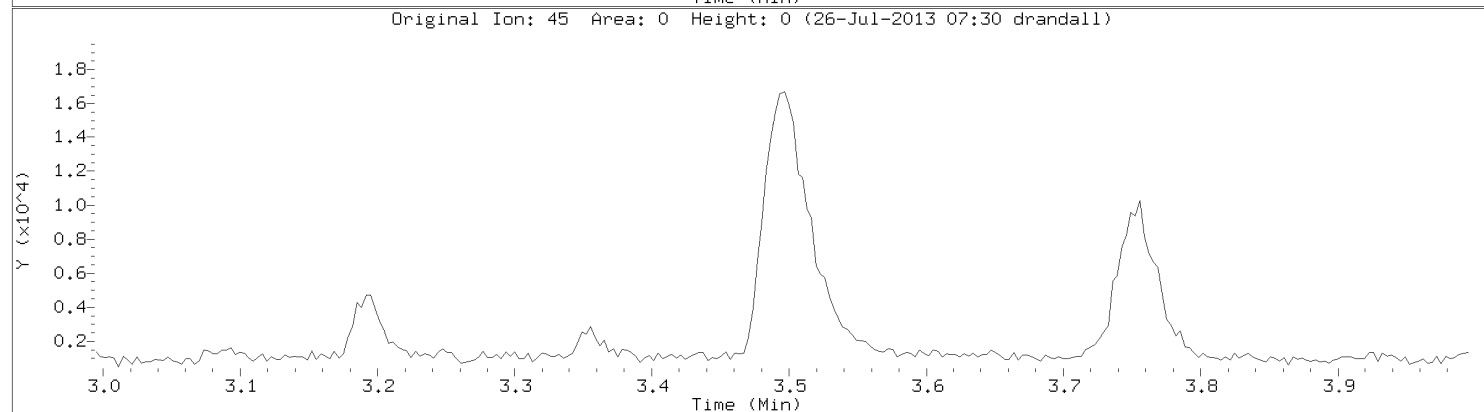
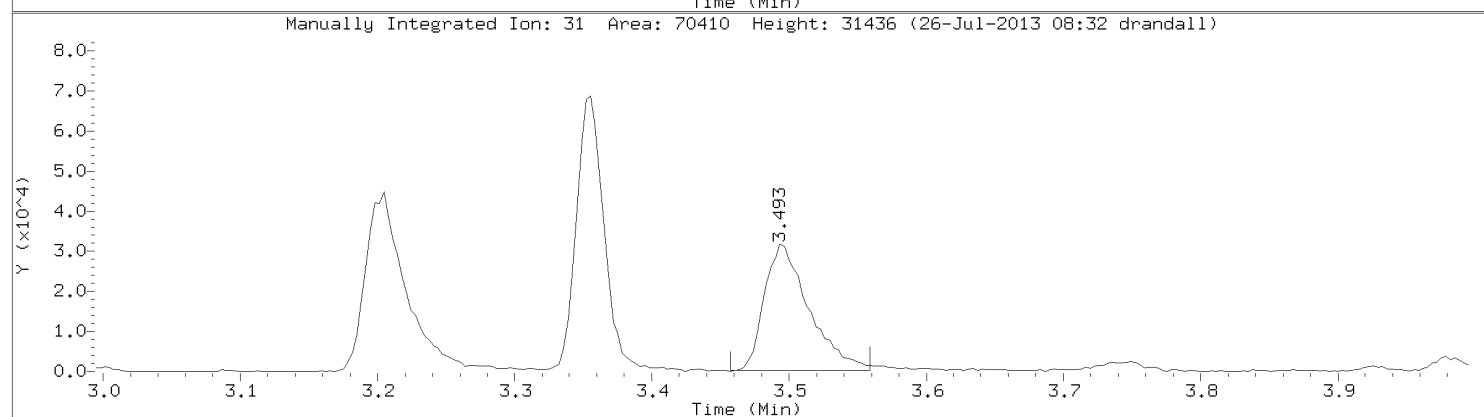
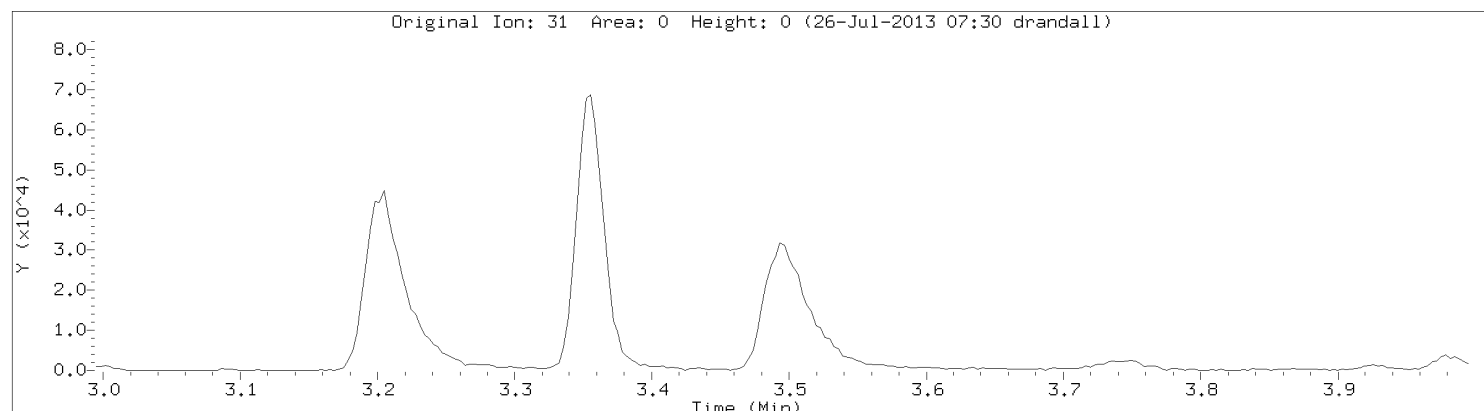
76 Naphthalene

Concentration: 2.08 ppbv



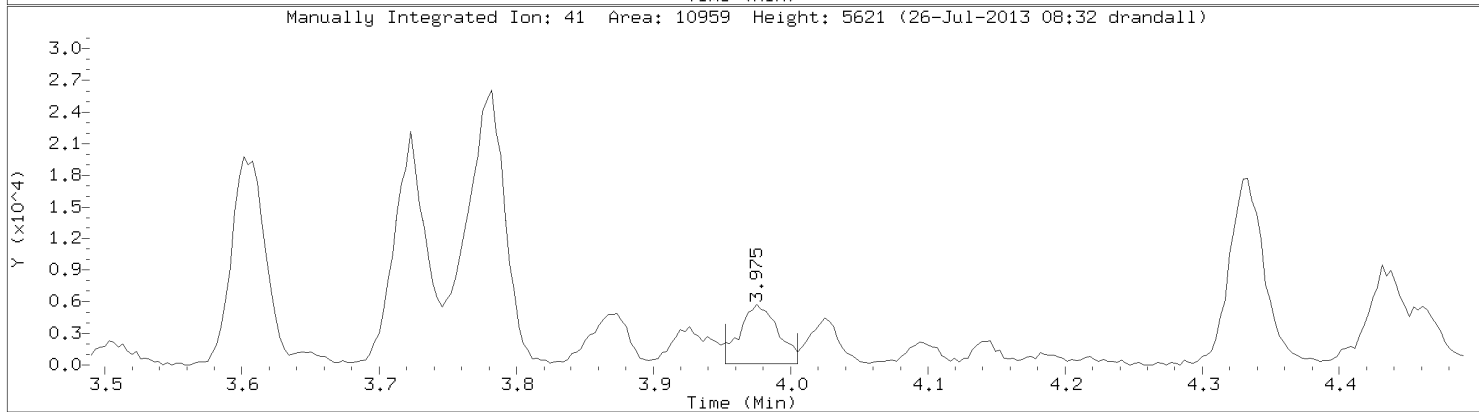
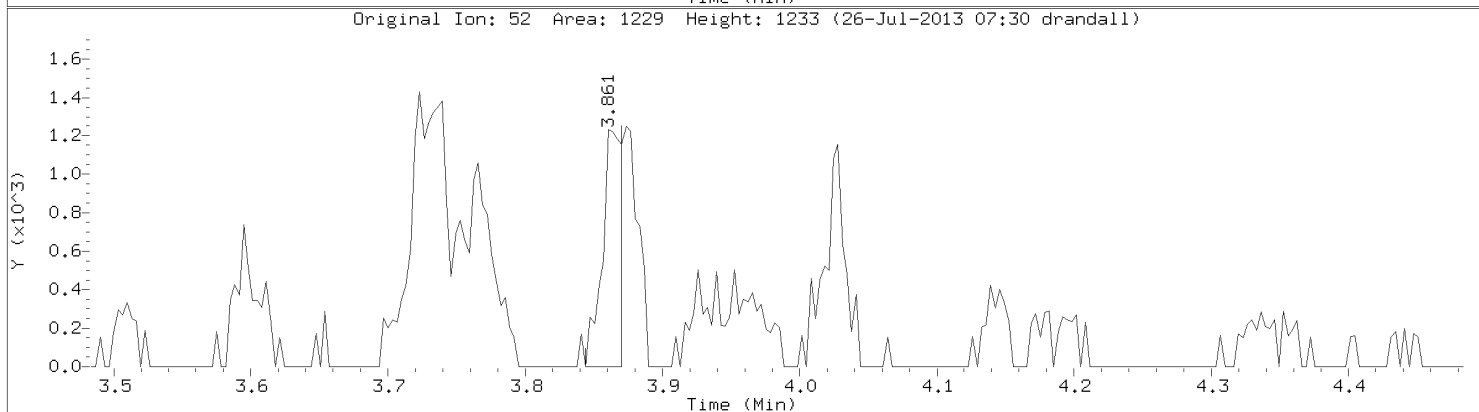
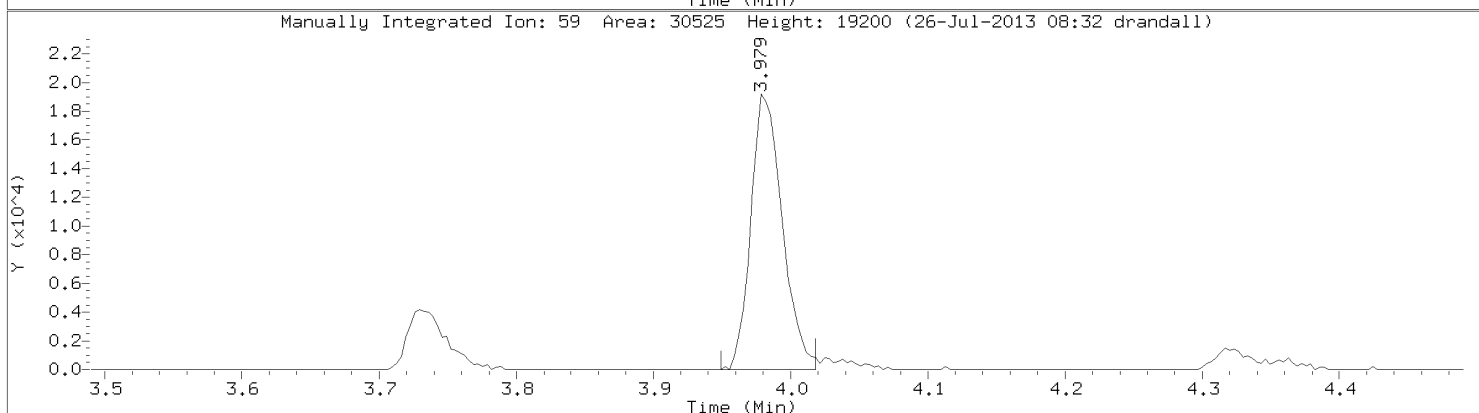
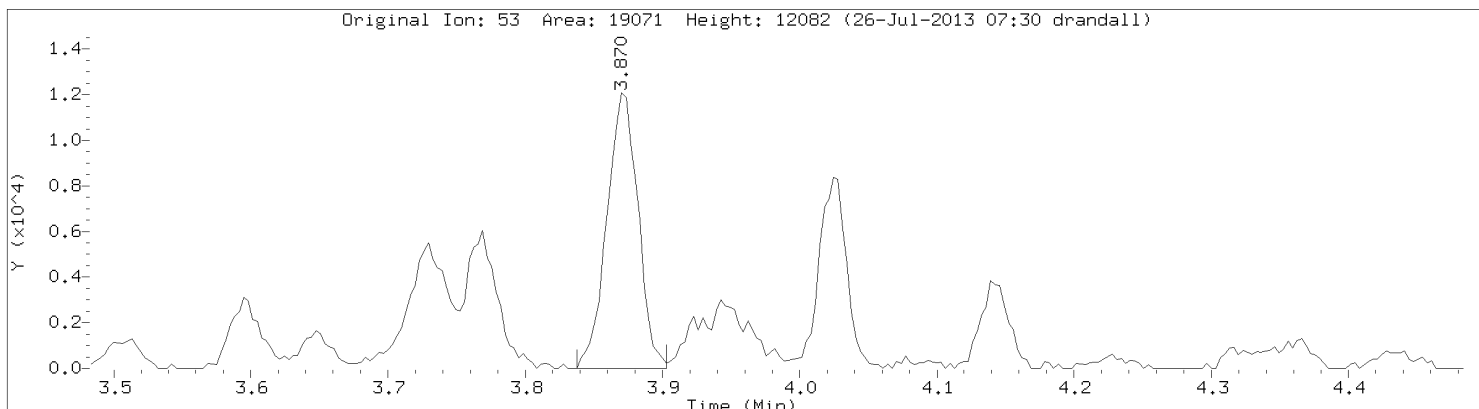
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Injection Date: 26-JUL-2013 03:02
Instrument: 10airD.i
Lab Sample ID: 10236207009

Compound: Ethanol
CAS Number: 64-17-5



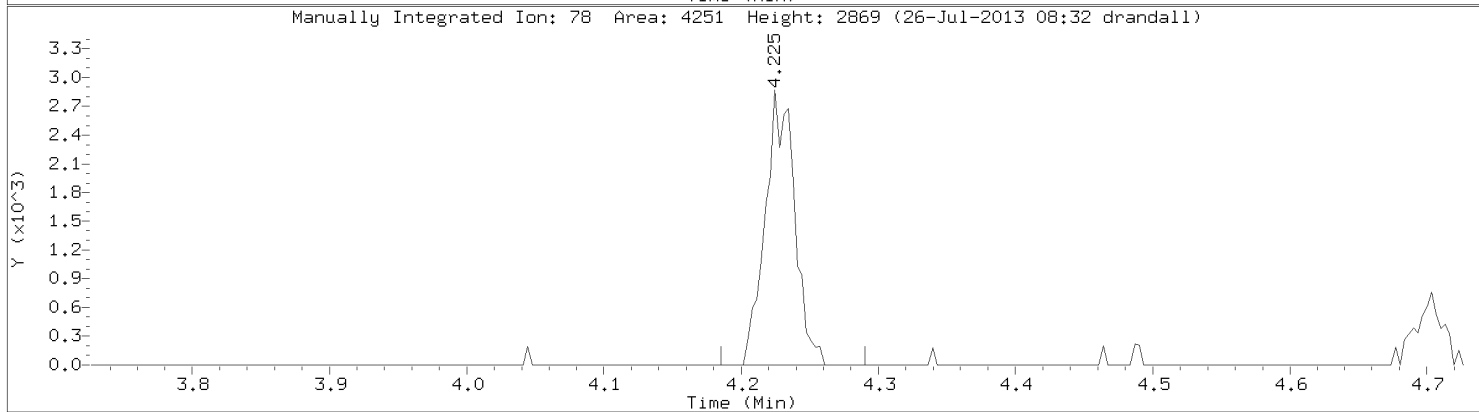
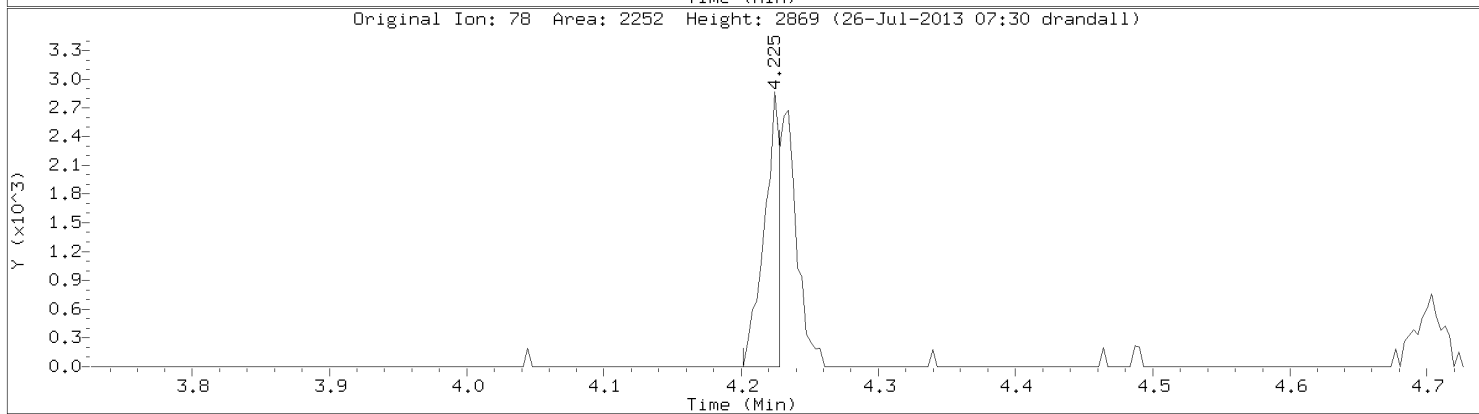
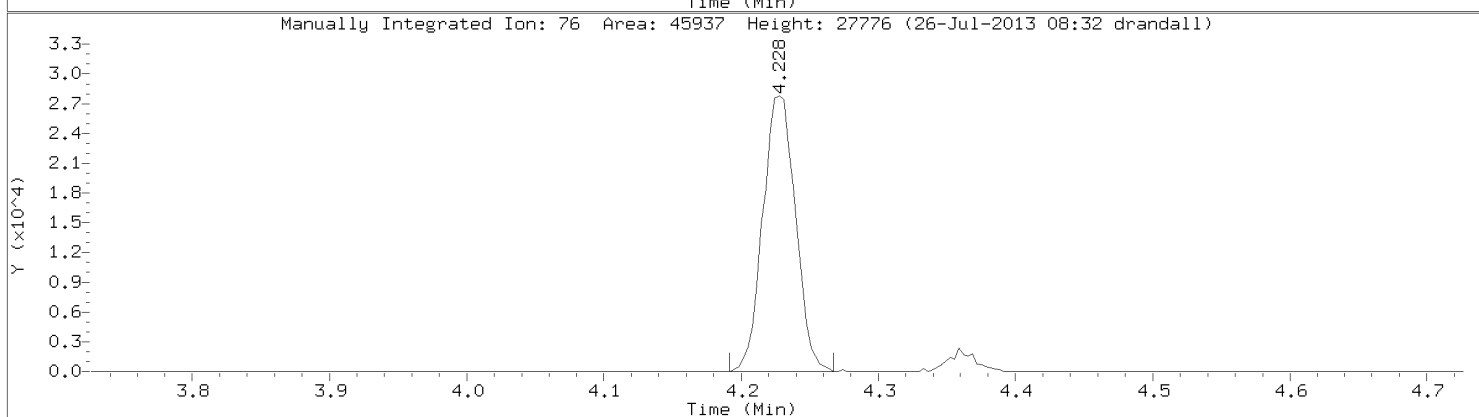
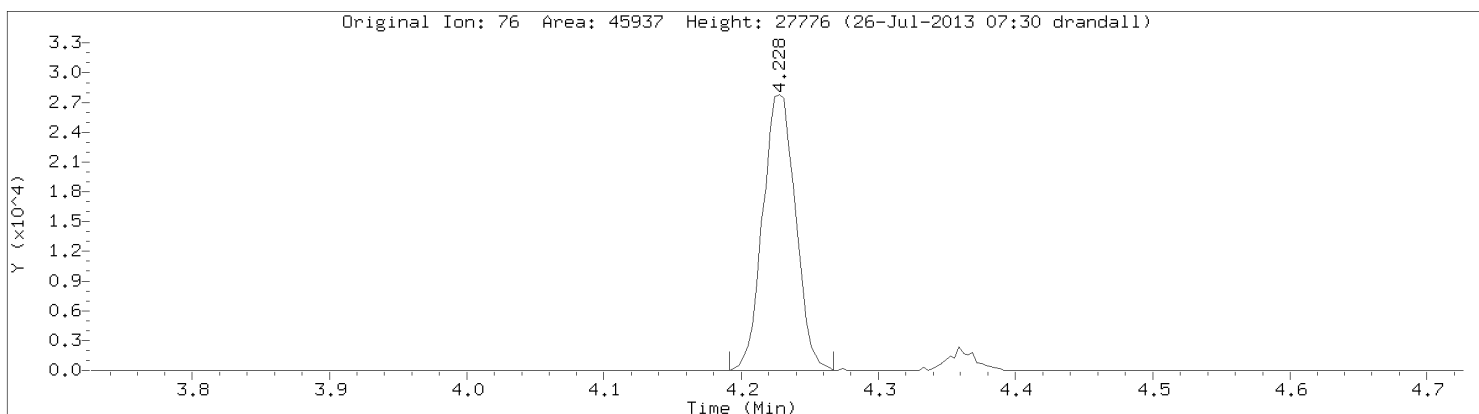
Data File: \\192.168.10.12\chem\10airD.i\072513.b\20629.d
Injection Date: 26-JUL-2013 03:02
Instrument: 10airD.i
Lab Sample ID: 10236207009

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



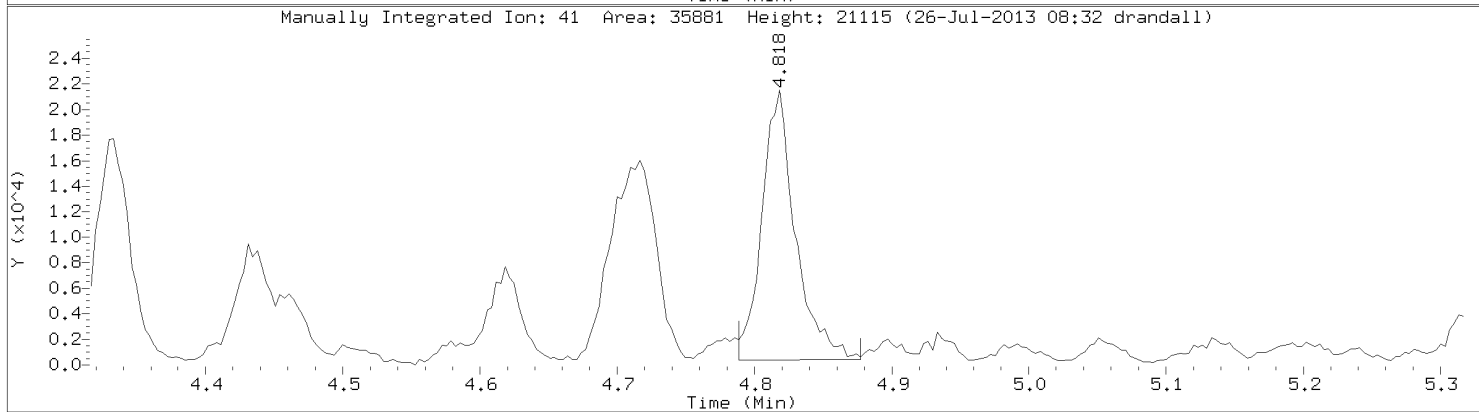
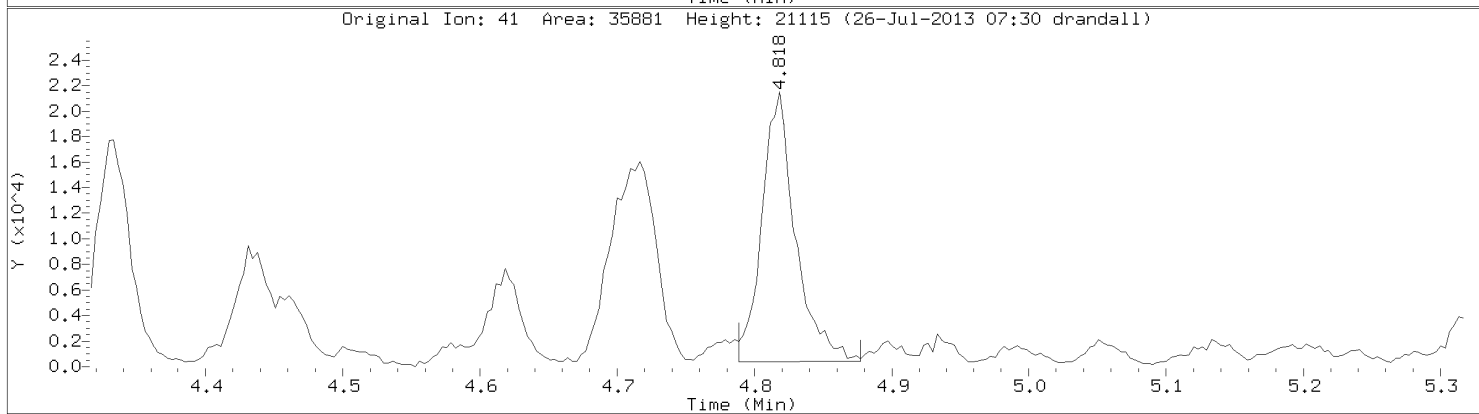
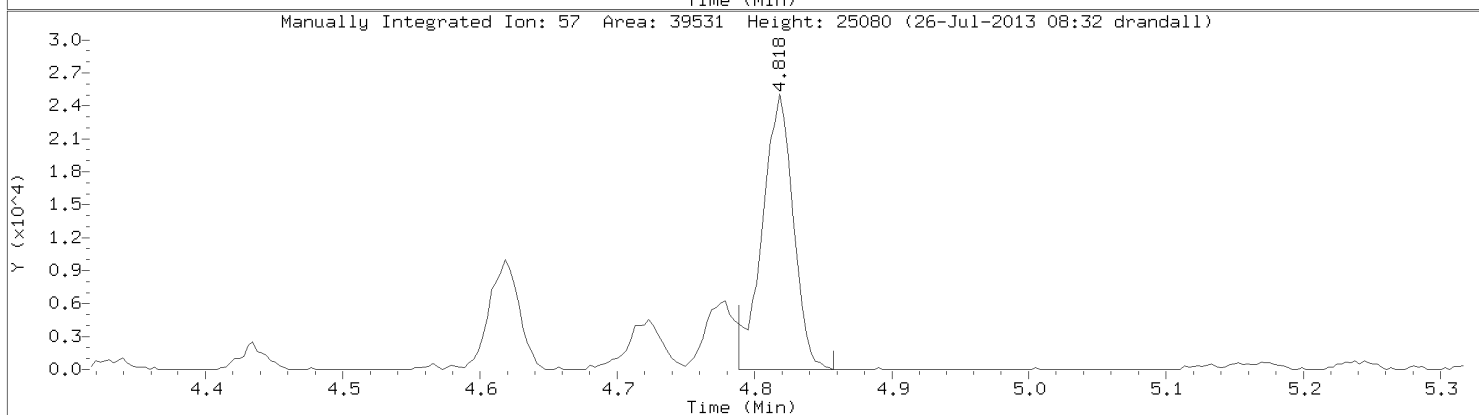
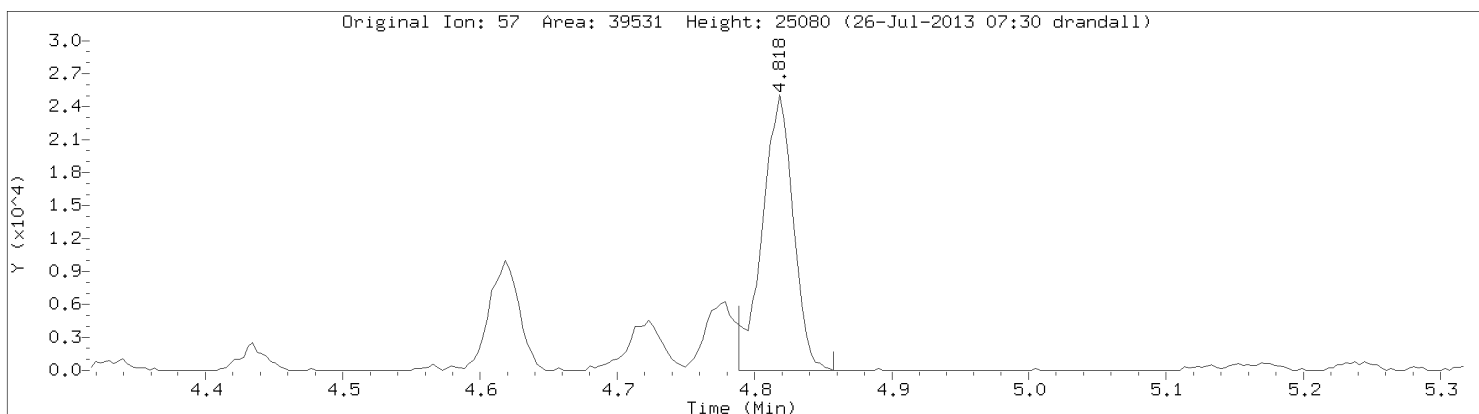
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Injection Date: 26-JUL-2013 03:02
Instrument: 10airD.i
Lab Sample ID: 10236207009

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

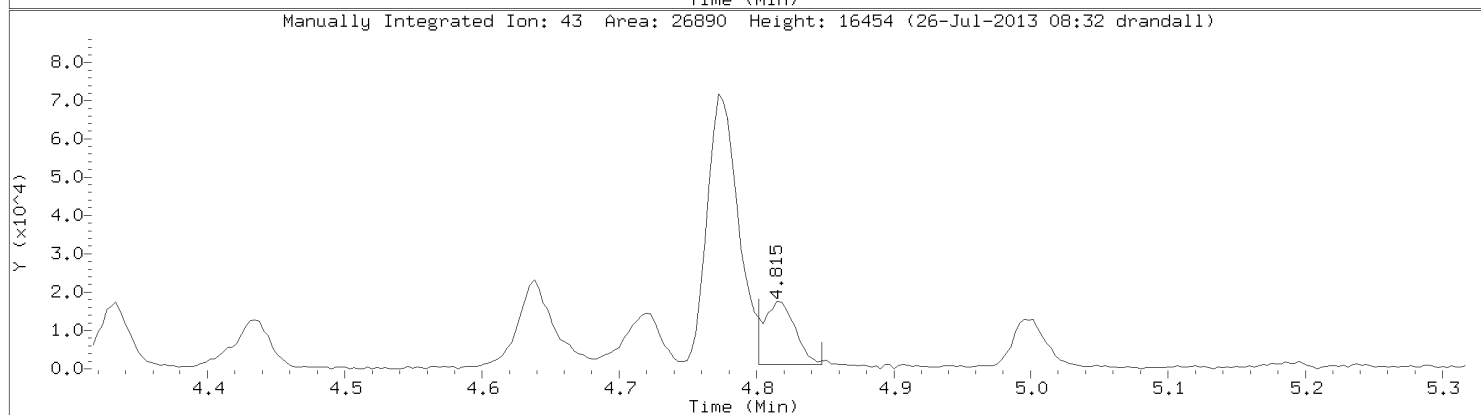
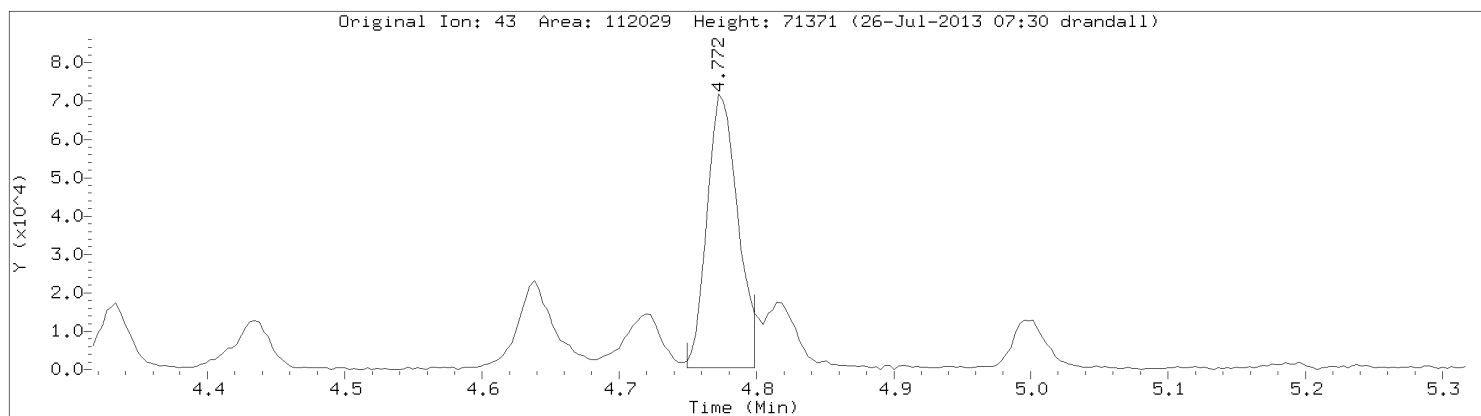


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Injection Date: 26-JUL-2013 03:02
Instrument: 10airD.i
Lab Sample ID: 10236207009

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

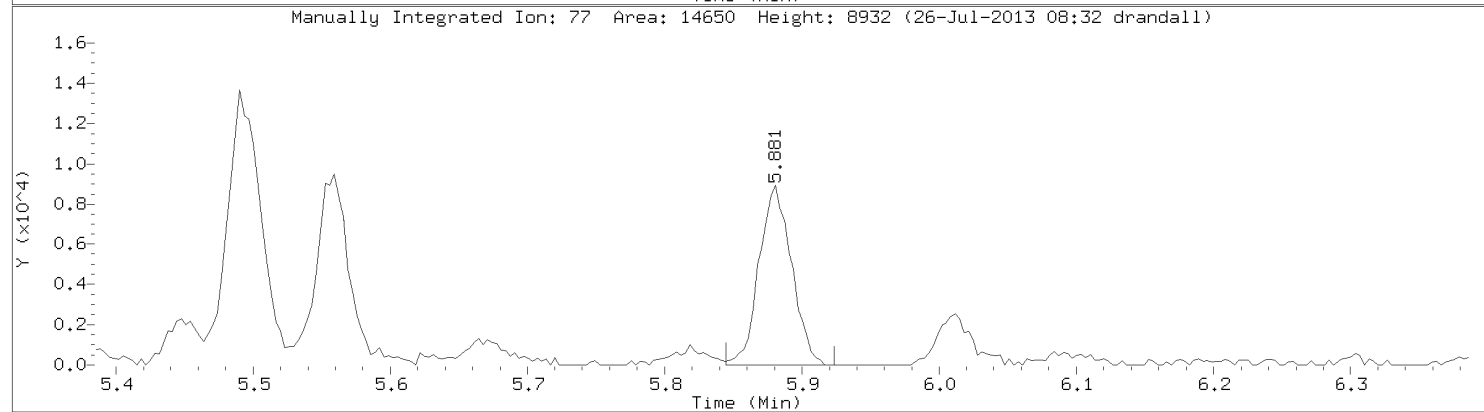
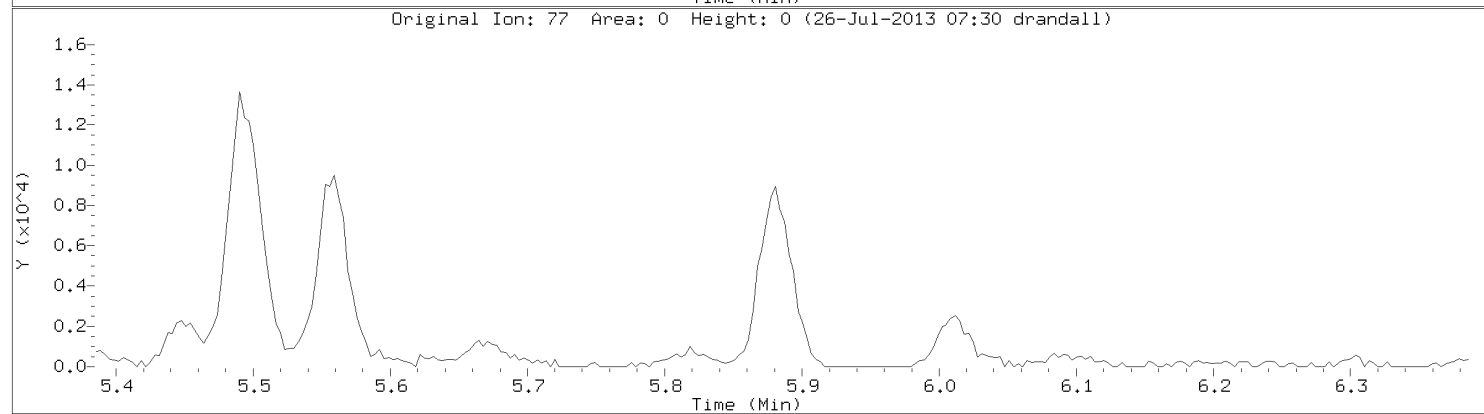
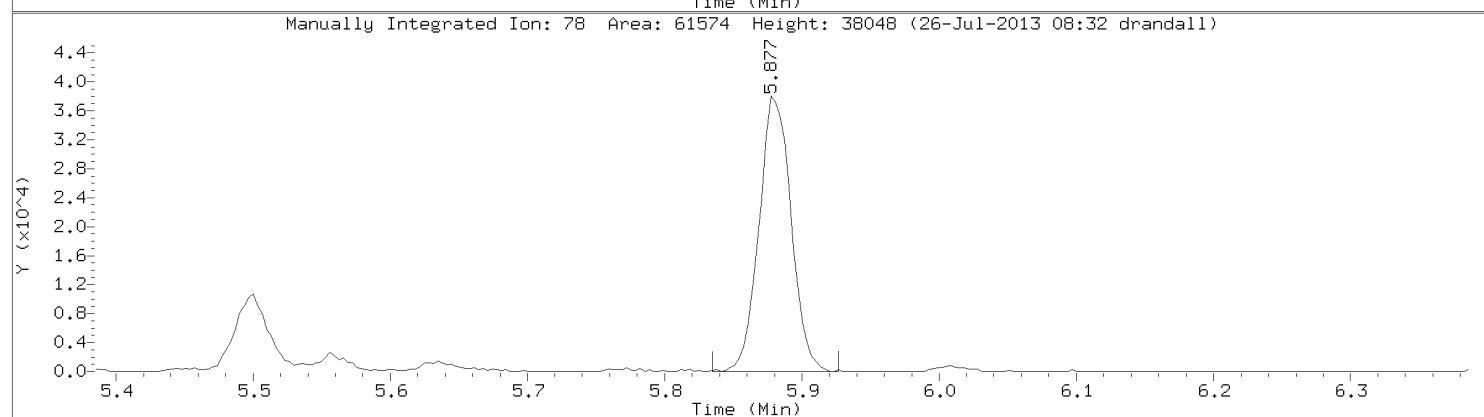
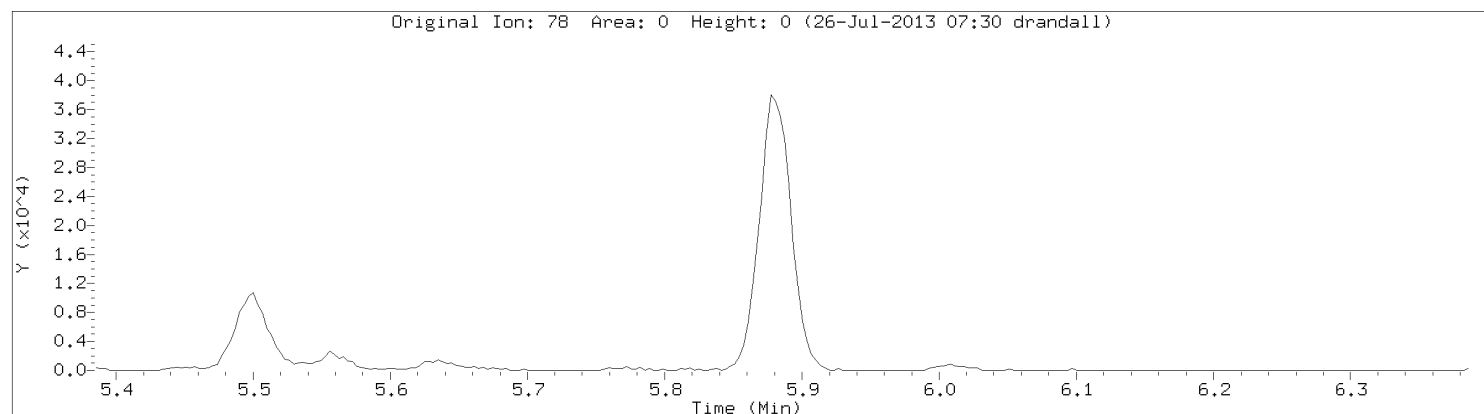


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Instrument: 10airD.i
Lab Sample ID: 10236207009

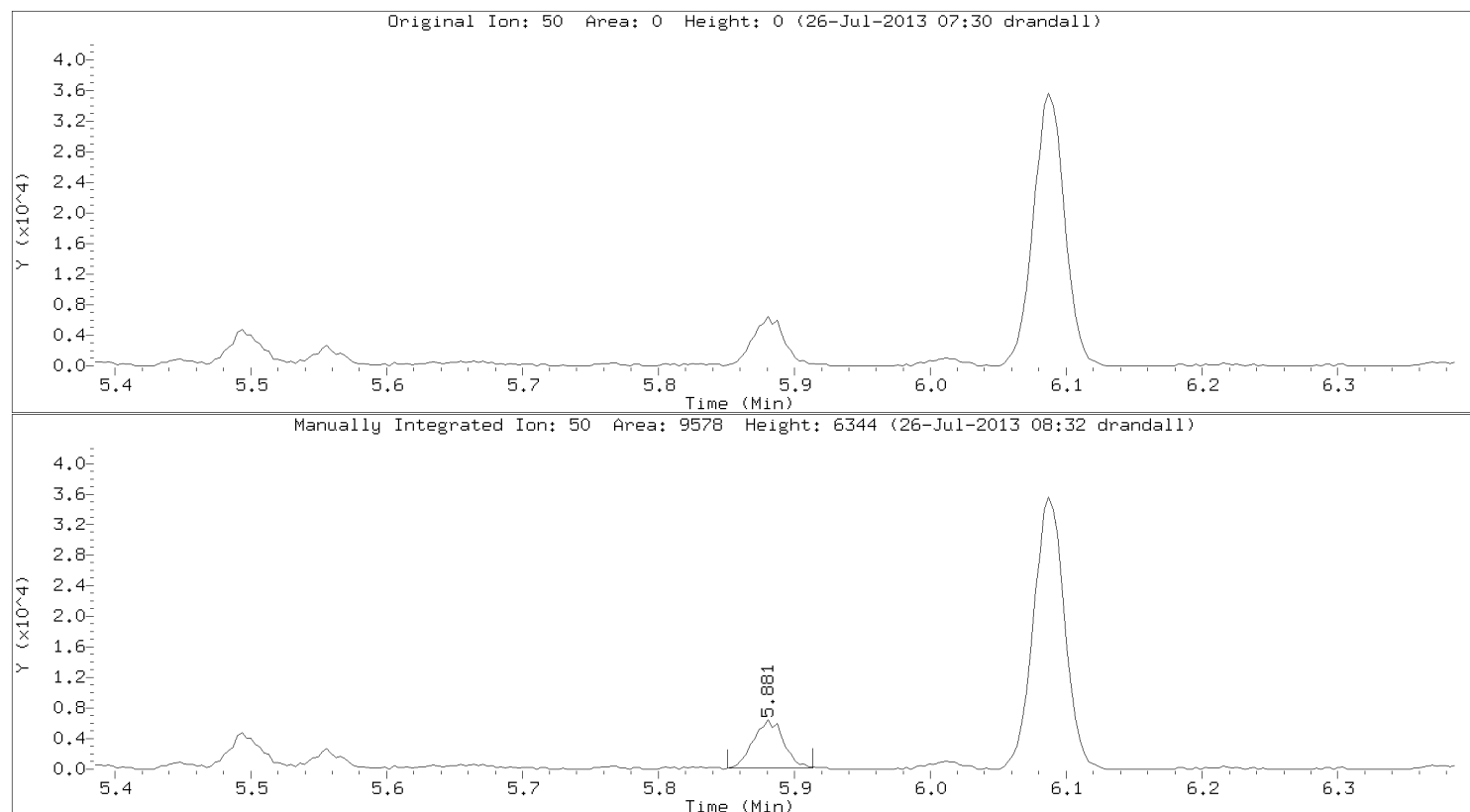


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Injection Date: 26-JUL-2013 03:02
Instrument: 10airD.i
Lab Sample ID: 10236207009

Compound: Benzene
CAS Number: 71-43-2

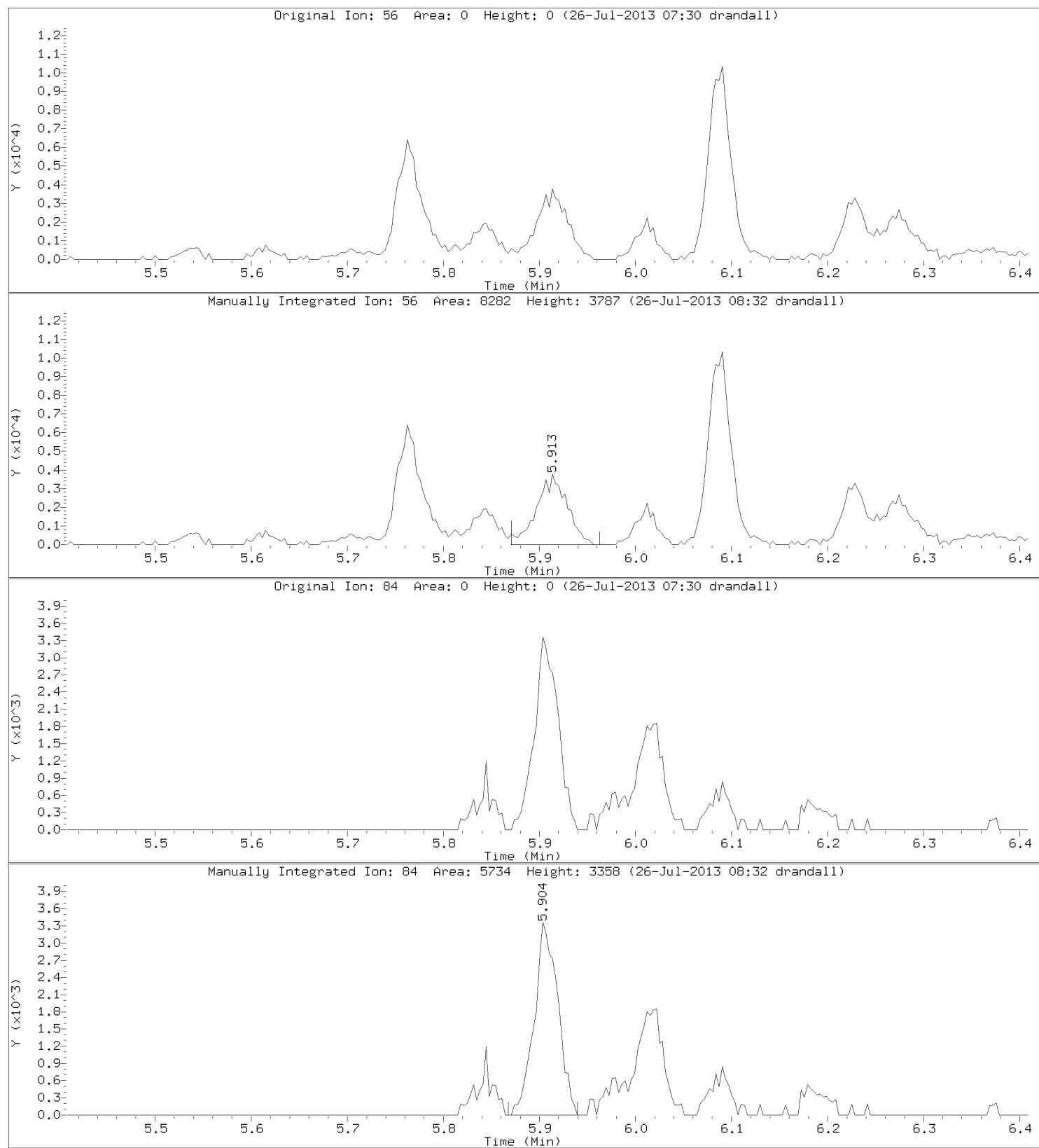


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Lab Sample ID: 10236207009

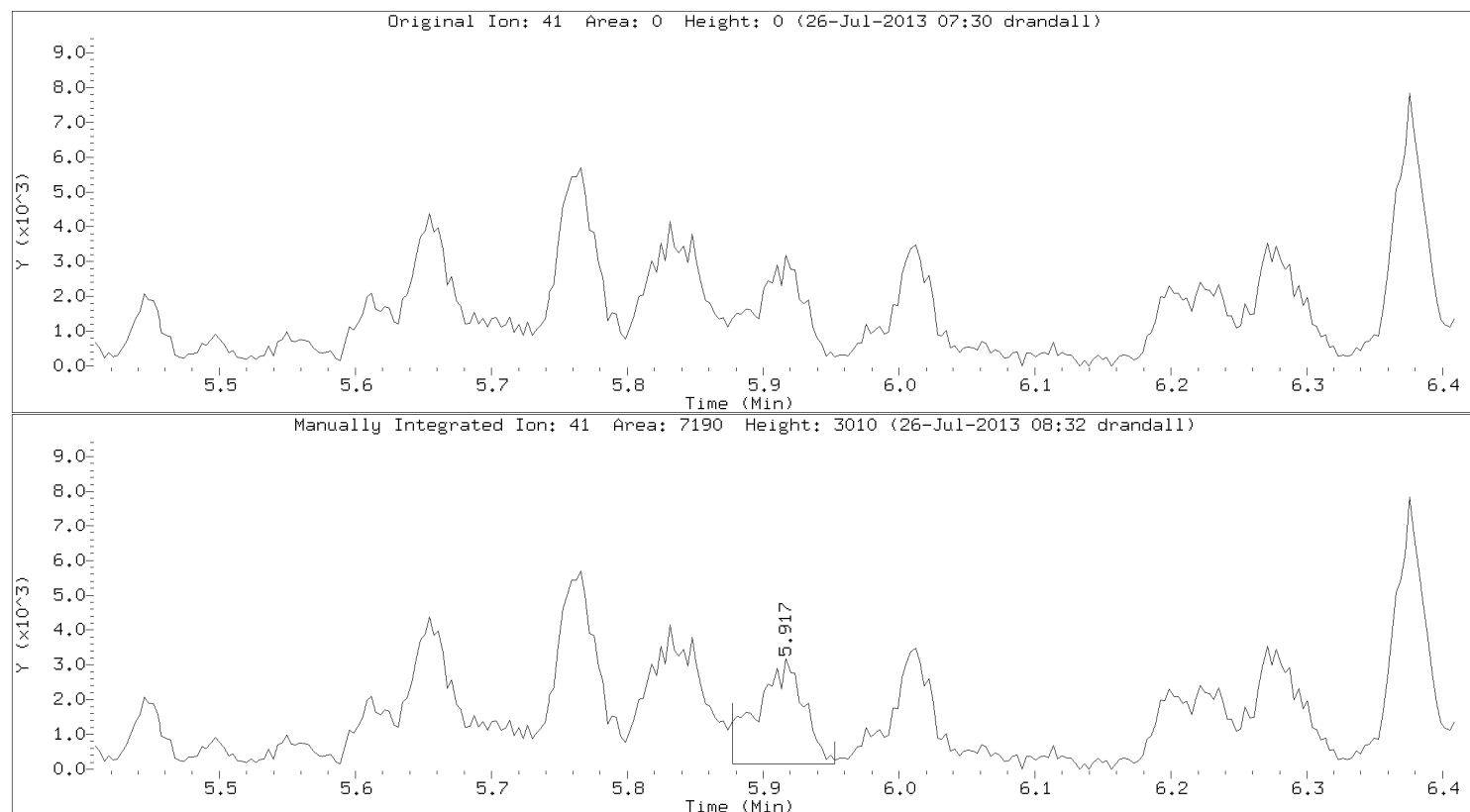


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Injection Date: 26-JUL-2013 03:02
Instrument: 10airD.i
Lab Sample ID: 10236207009

Compound: Cyclohexane
CAS Number: 110-82-7

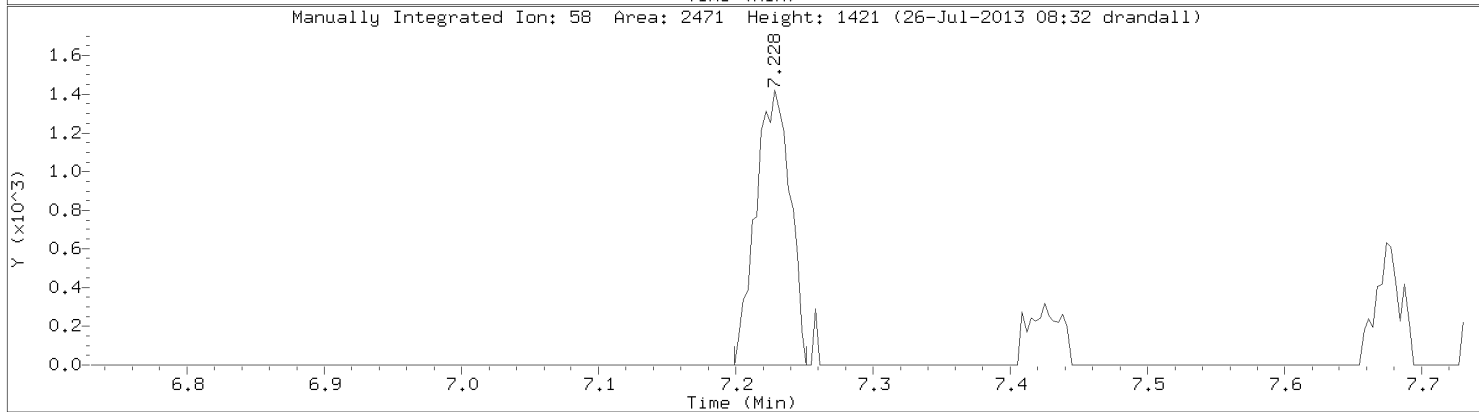
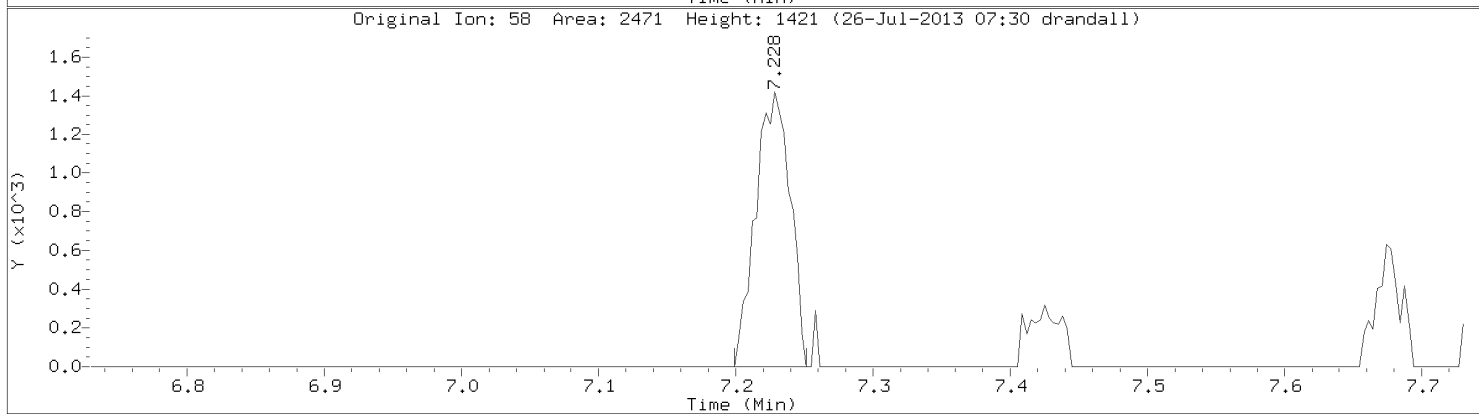
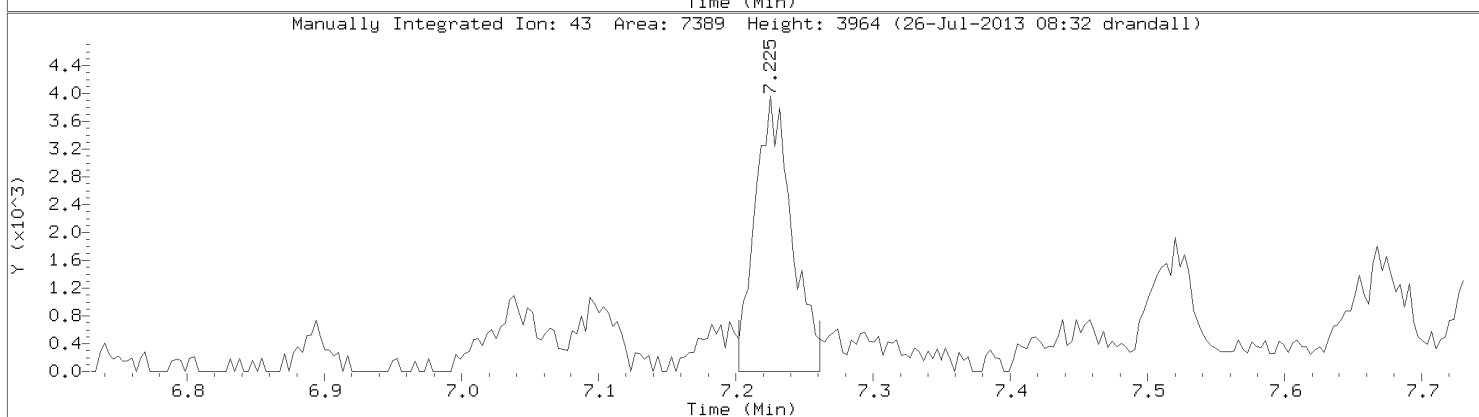
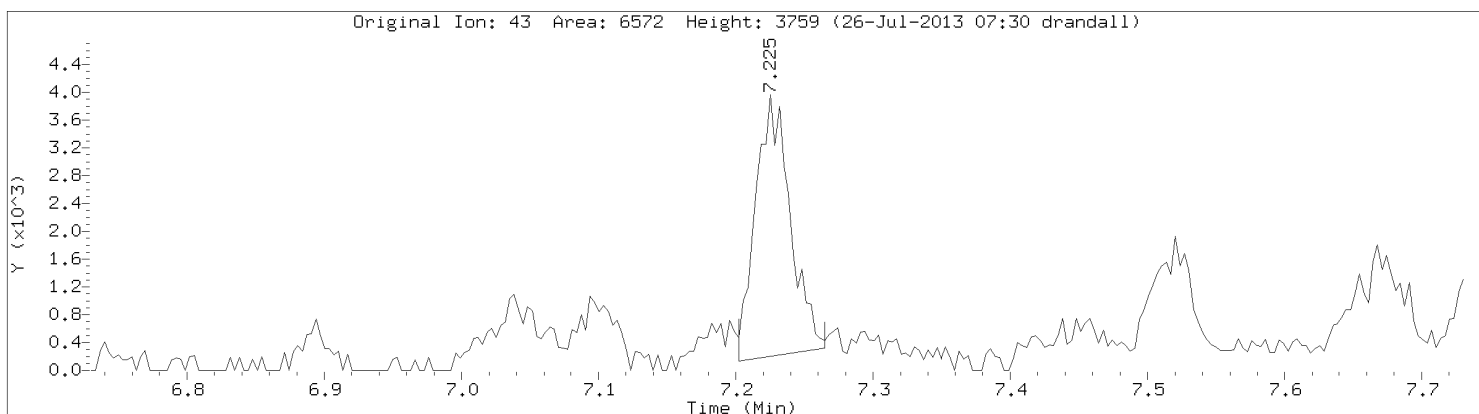


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Instrument: 10airD.i
Lab Sample ID: 10236207009

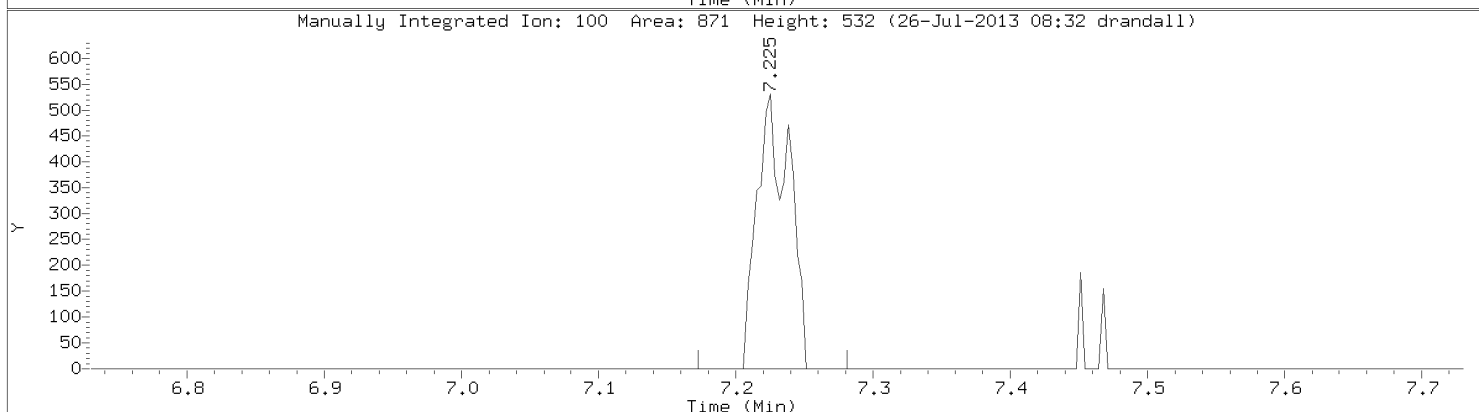
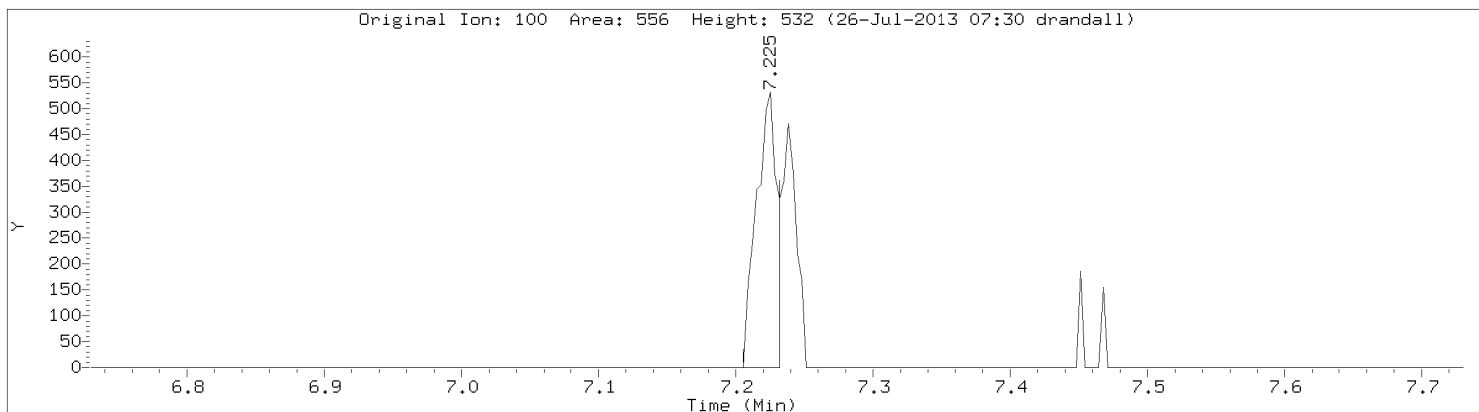


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Injection Date: 26-JUL-2013 03:02
Instrument: 10airD.i
Lab Sample ID: 10236207009

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

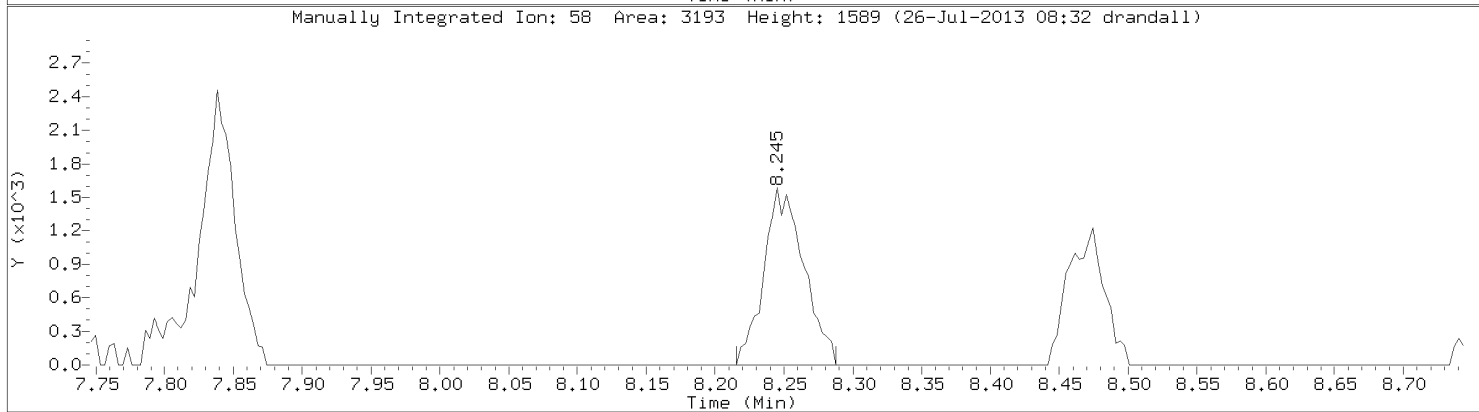
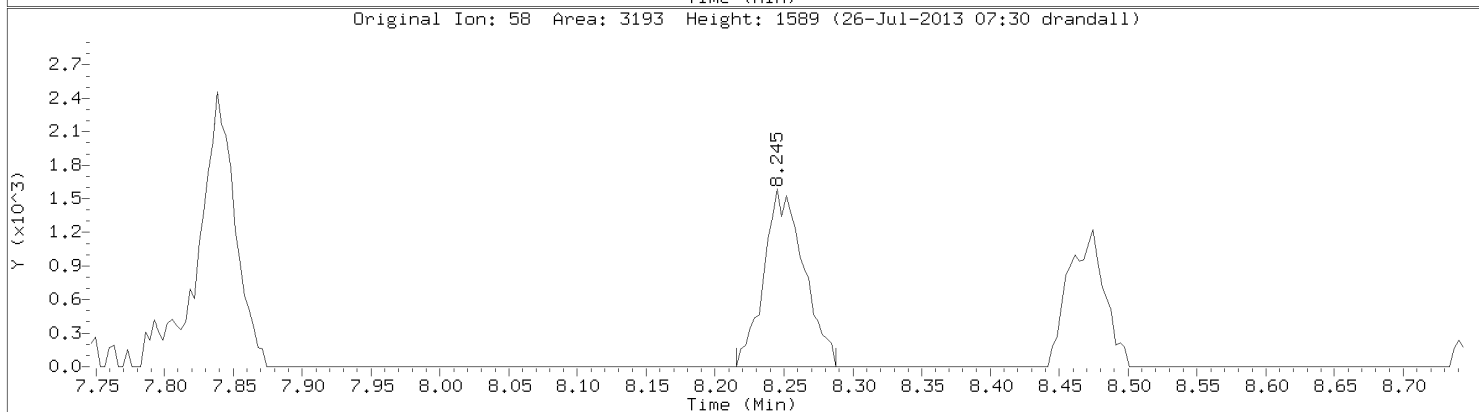
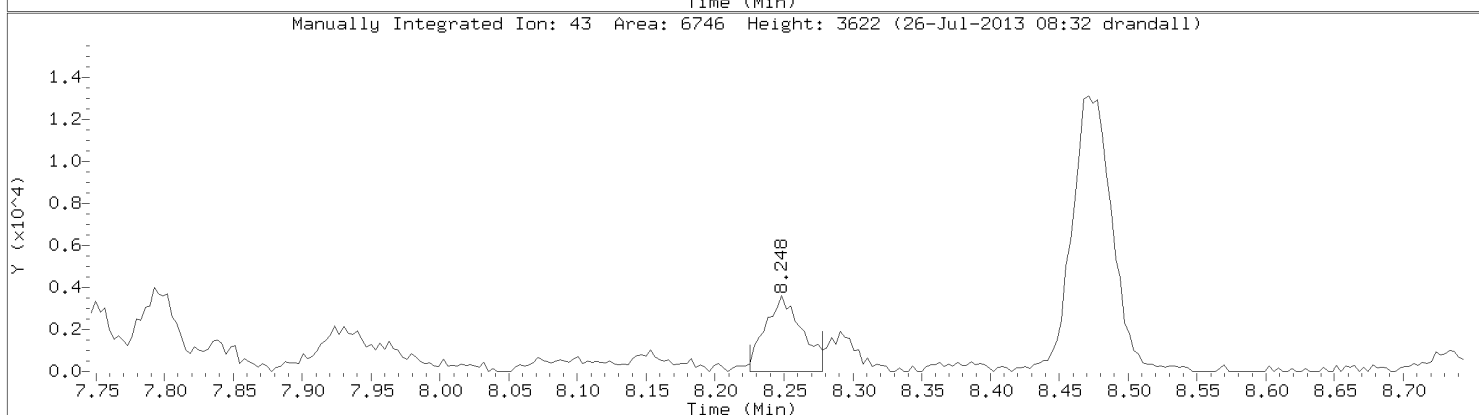
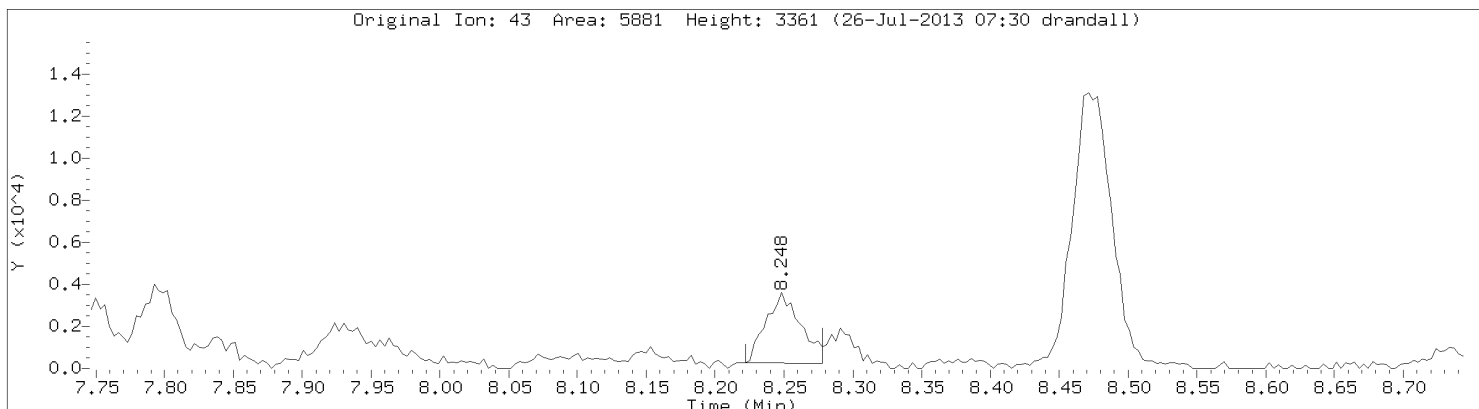


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Injection Date: 26-JUL-2013 03:02
Instrument: 10airD.i
Lab Sample ID: 10236207009



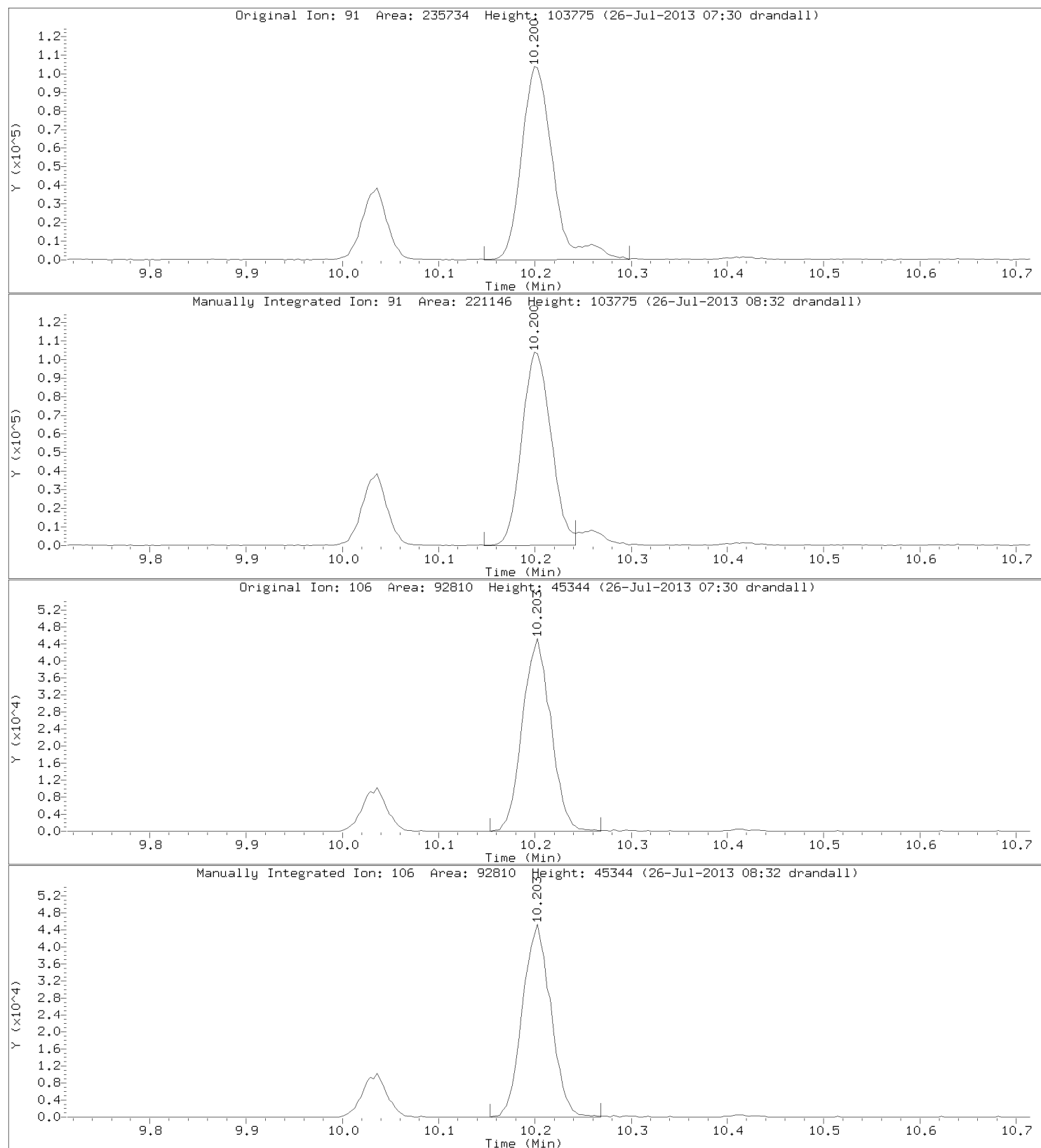
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Injection Date: 26-JUL-2013 03:02
Instrument: 10airD.i
Lab Sample ID: 10236207009

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



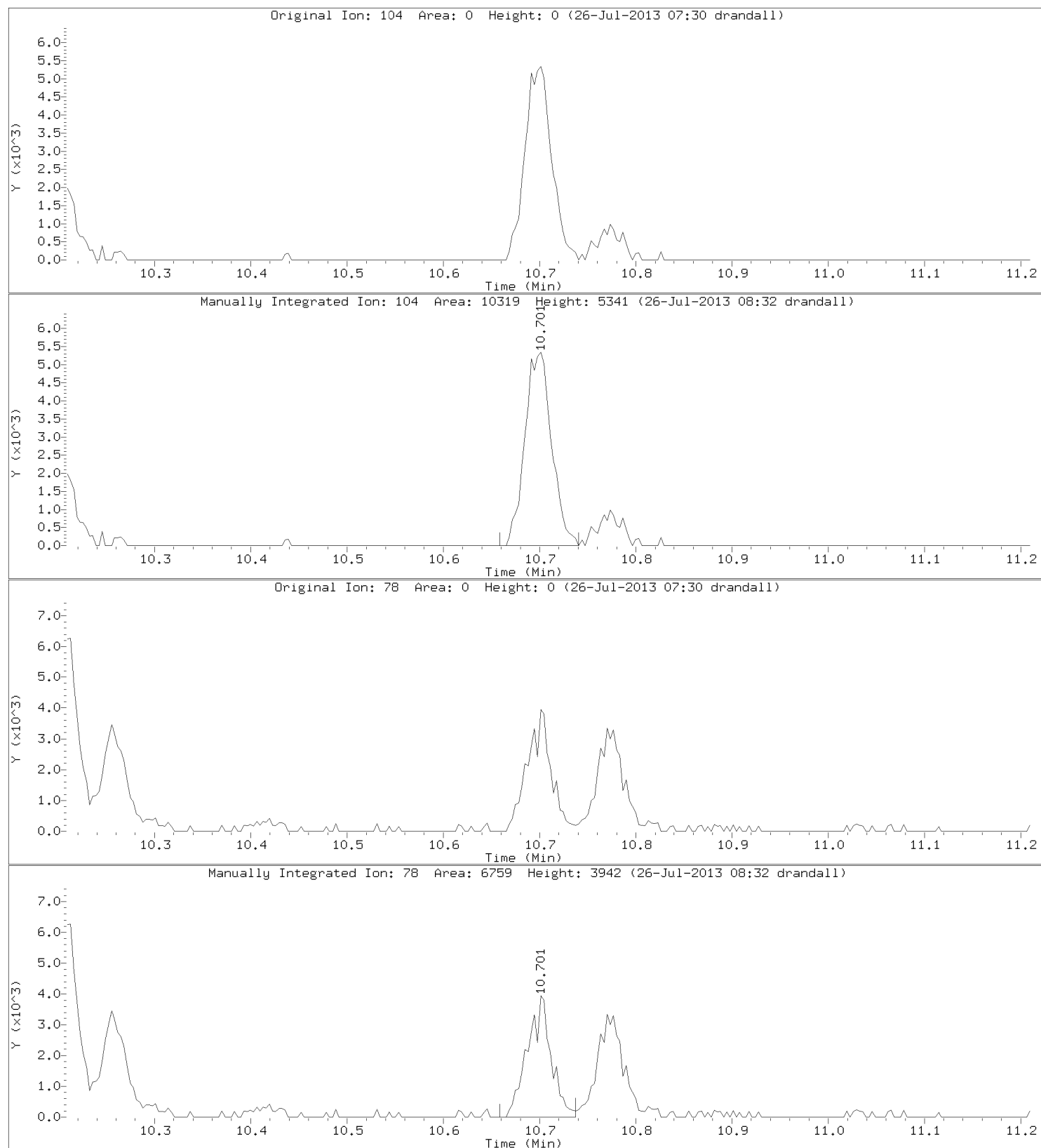
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Injection Date: 26-JUL-2013 03:02
Instrument: 10airD.i
Lab Sample ID: 10236207009

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

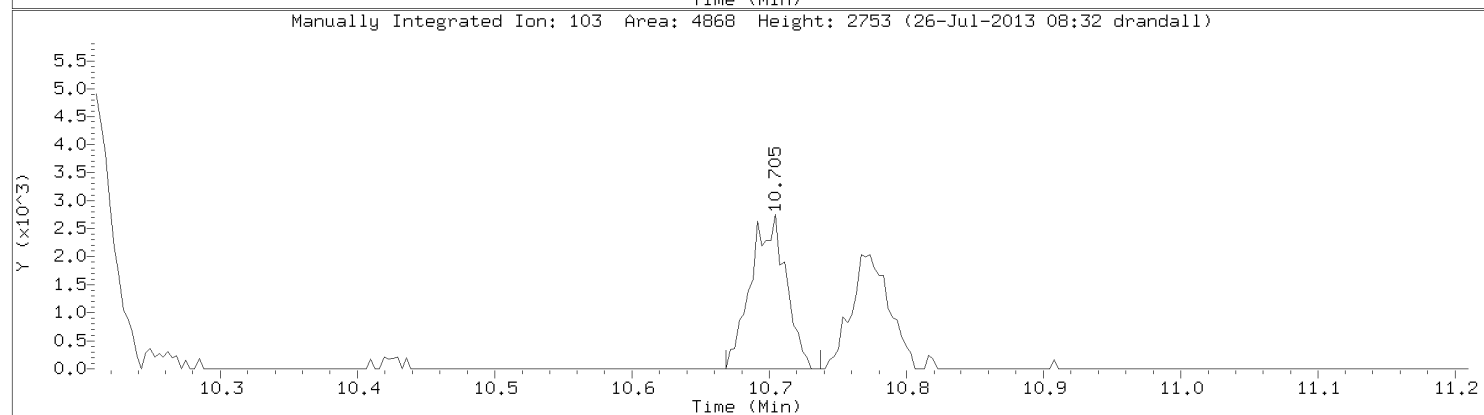
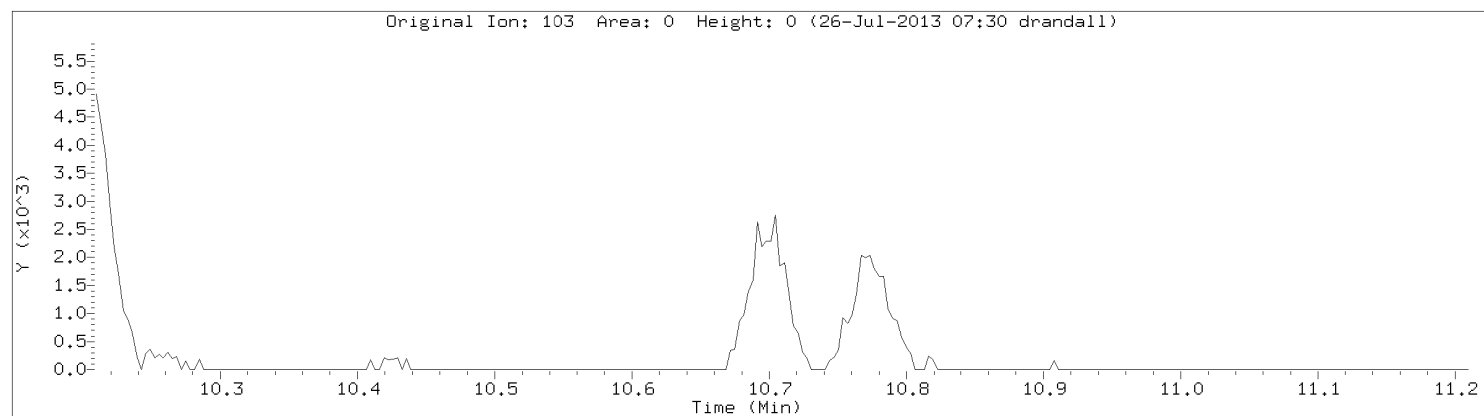


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Injection Date: 26-JUL-2013 03:02
Instrument: 10airD.i
Lab Sample ID: 10236207009

Compound: Styrene
CAS Number: 100-42-5

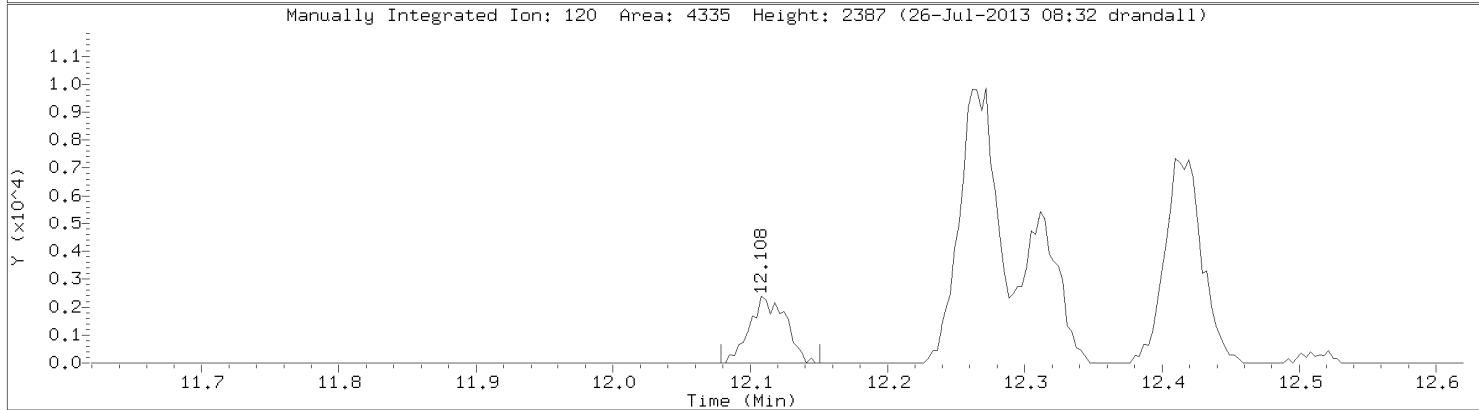
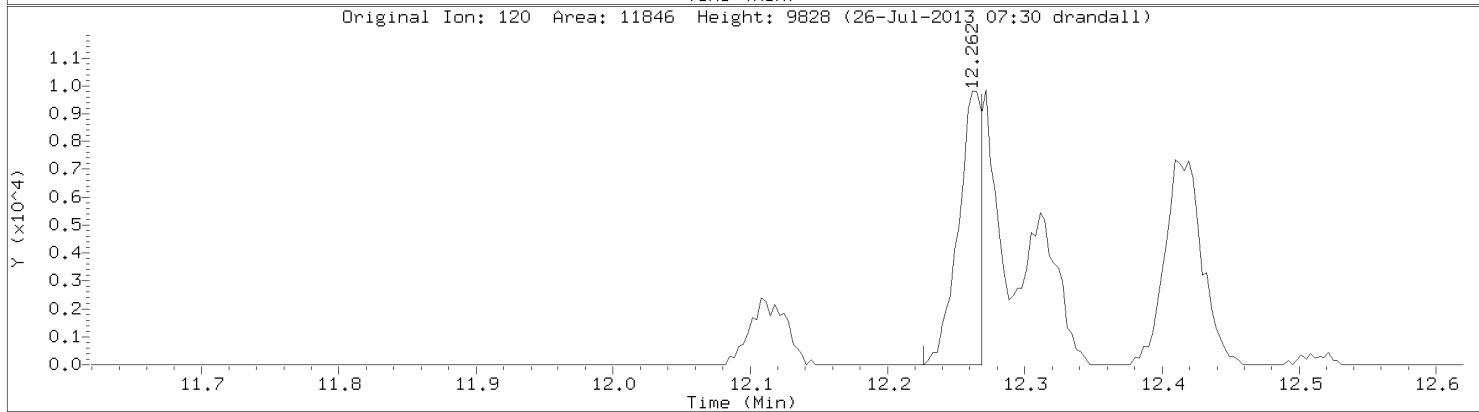
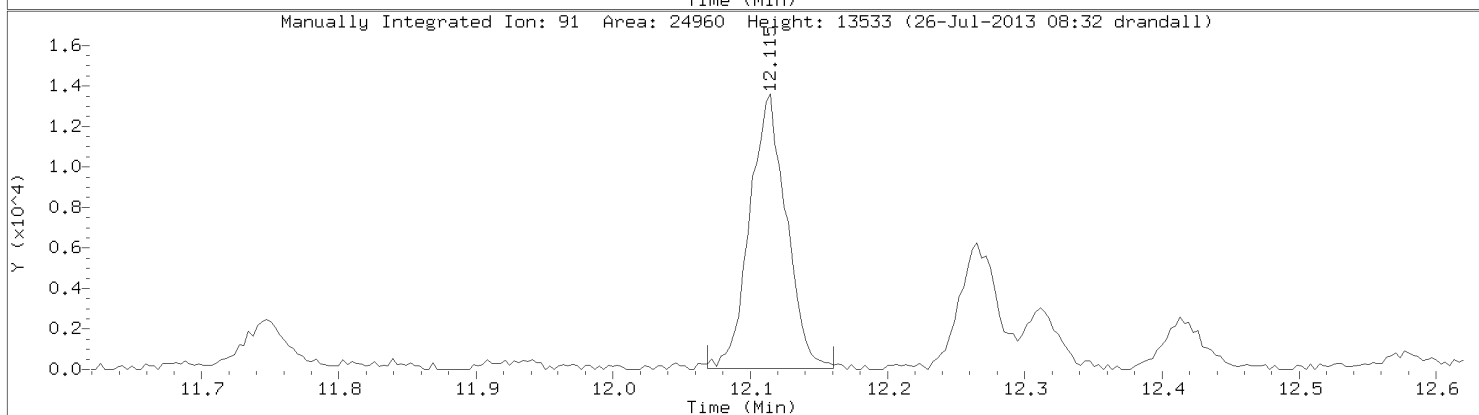
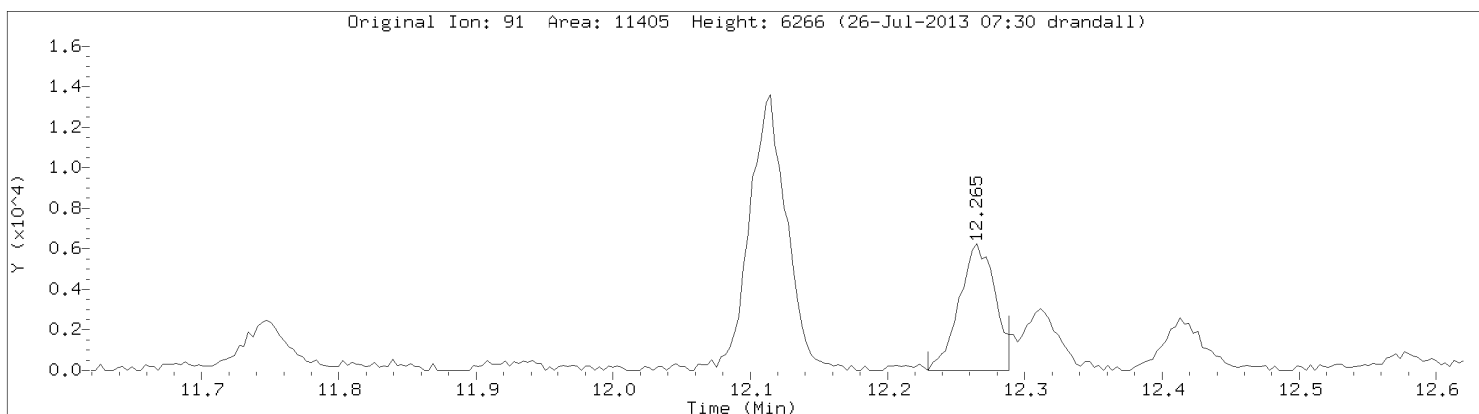


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Injection Date: 26-JUL-2013 03:02
Instrument: 10airD.i
Lab Sample ID: 10236207009



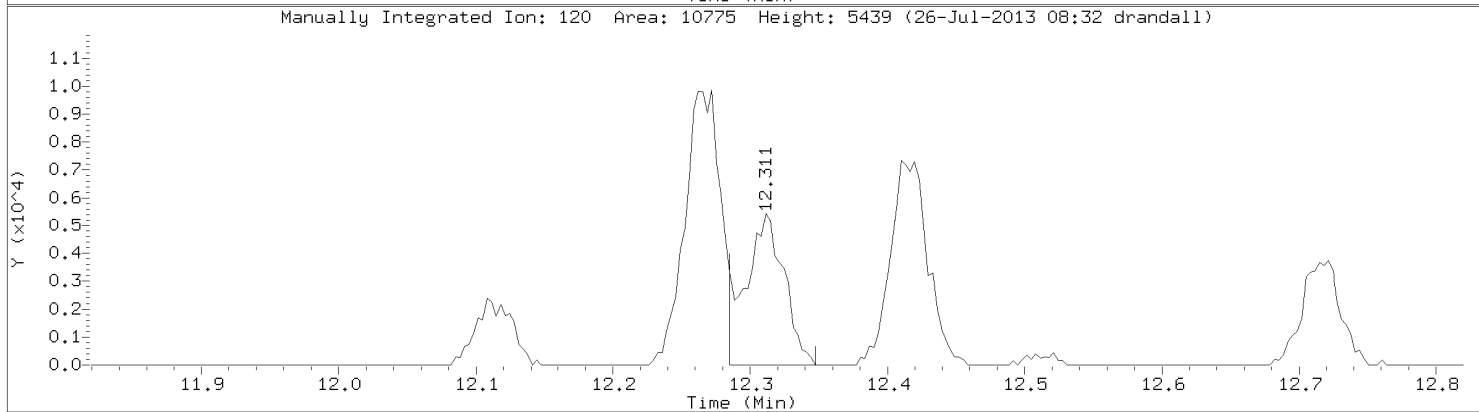
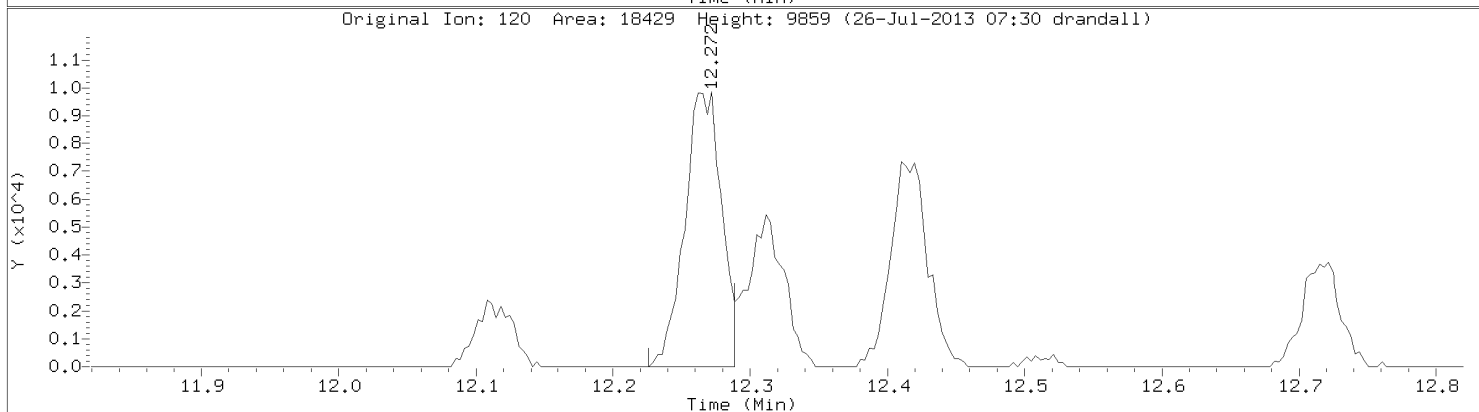
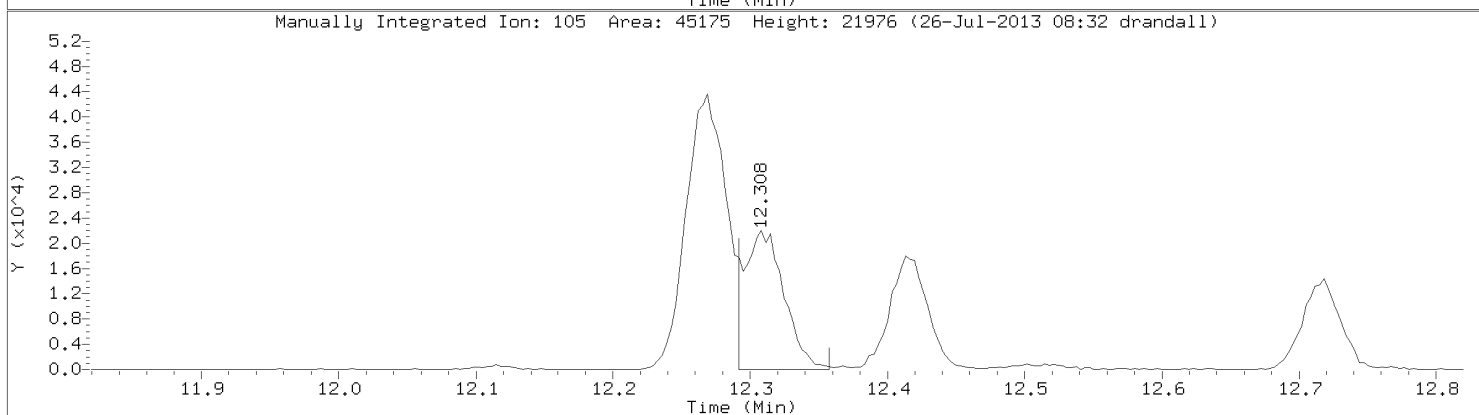
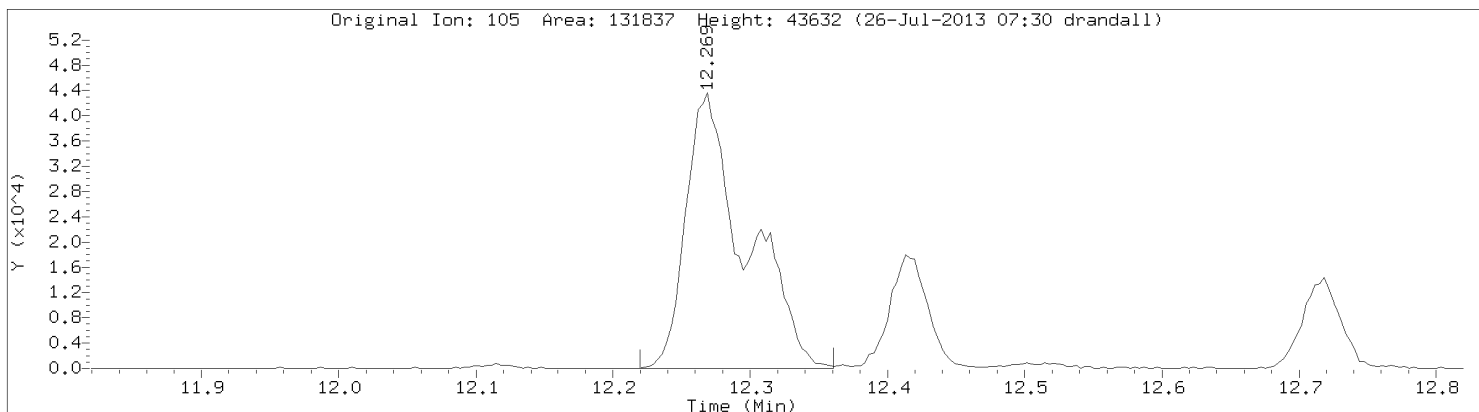
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Injection Date: 26-JUL-2013 03:02
Instrument: 10airD.i
Lab Sample ID: 10236207009

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

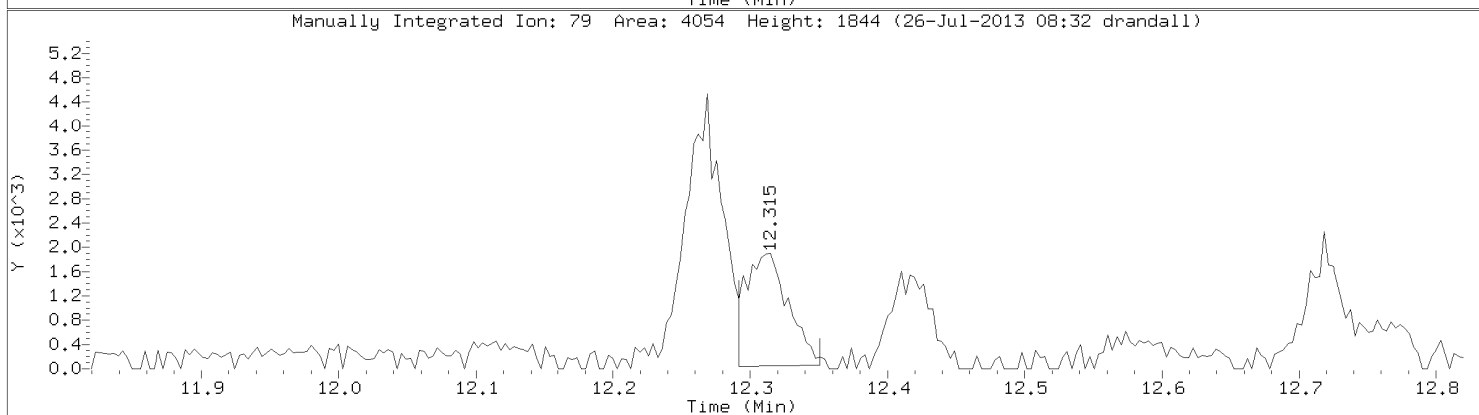
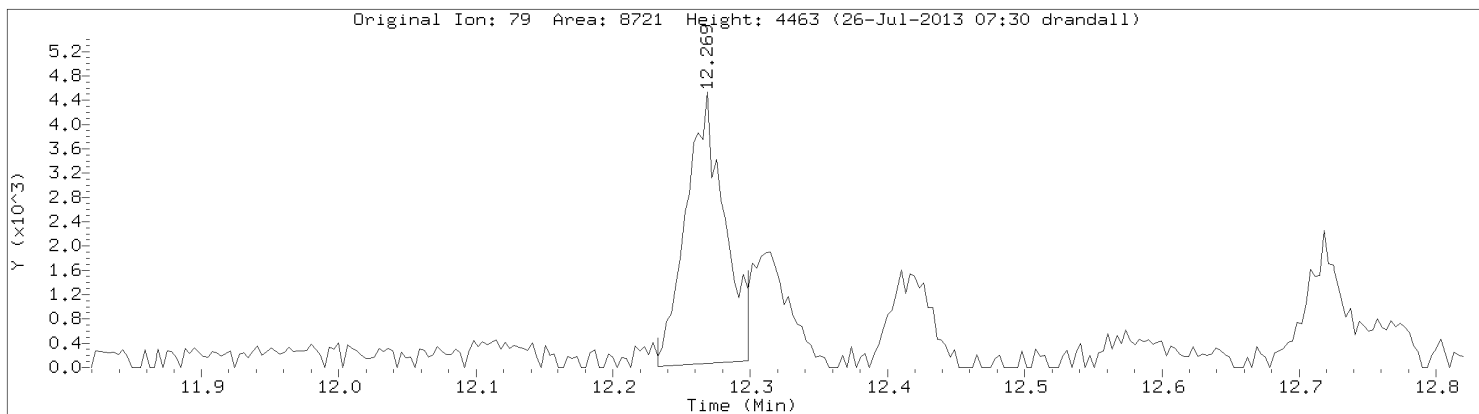


Data File: \\192.168.10.12\chem\10airD.i\072513.b\20629.d
Injection Date: 26-JUL-2013 03:02
Instrument: 10airD.i
Lab Sample ID: 10236207009

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



Data File: \\192.168.10.12\chem\10airD.i\072513.b\20629.d
Injection Date: 26-JUL-2013 03:02
Instrument: 10airD.i
Lab Sample ID: 10236207009



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072513.b\20625.d
 Lab Smp Id: 10236207010
 Inj Date : 26-JUL-2013 01:00
 Operator : DR1 Inst ID: 10airD.i
 Smp Info :
 Misc Info : 17870
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
 Meth Date : 25-Jul-2013 16:57 creindl Quant Type: ISTD
 Cal Date : 24-JUL-2013 16:39 Cal File: 20509.d
 Als bottle: 25
 Dil Factor: 1.44000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
1 Propylene	41		2.965	2.982	(0.487)	184837	20.1881	29.1
2 Dichlorodifluoromethane	85		2.991	3.008	(0.491)	20474	0.23211	0.334
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		3.500	3.494	(0.575)	12555	1.19474	1.72 (QM)
10 Vinyl Bromide	106					Compound Not Detected.		
11 Acrolein	56					Compound Not Detected.		
12 Trichlorofluoromethane	101		3.696	3.694	(0.607)	13310	0.13872	0.200 (M)
13 Acetone	43		3.736	3.726	(0.613)	459169	9.54674	13.7 (M)
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		3.988	3.989	(0.655)	24938	0.49423	0.712 (M)
18 Freon 113	101					Compound Not Detected.		
19 Methylene chloride	49		4.103	4.094	(0.674)	5959	0.21868	0.315
20 Allyl Chloride	76					Compound Not Detected.		
21 Carbon Disulfide	76		4.228	4.224	(0.694)	31659	0.39924	0.575
22 trans-1,2-dichloroethene	96					Compound Not Detected.		
23 Methyl Tert Butyl Ether	73					Compound Not Detected.		
24 Vinyl Acetate	43					Compound Not Detected.		

Compounds	QUANT MASS	SIG						CONCENTRATIONS	
			RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppbv)	FINAL (ppbv)	
25 1,1-Dichloroethane	63		Compound Not Detected.						
\$ 26 Hexane-d14(S)	66		4.703	4.700	(0.772)	308502	8.80575	8.80	
27 Methyl Ethyl Ketone	72		4.775	4.779	(0.784)	38522	3.45942	4.98 (M)	
28 n-Hexane	57		4.821	4.818	(0.792)	30648	0.96231	1.38 (QM)	
29 cis-1,2-Dichloroethene	96		Compound Not Detected.						
30 Ethyl Acetate	43		Compound Not Detected.						
31 Chloroform	83		Compound Not Detected.						
32 Tetrahydrofuran	42		Compound Not Detected.						
33 1,1,1-Trichloroethane	97		Compound Not Detected.						
34 1,2-Dichloroethane	62		Compound Not Detected.						
35 Benzene	78		5.884	5.887	(0.966)	45769	1.06770	1.54 (M)	
36 Carbon tetrachloride	117		Compound Not Detected.						
37 Cyclohexane	56		5.917	5.910	(0.971)	5643	0.68053	0.980 (QM)	
* 38 1,4-Difluorobenzene	114		6.090	6.094	(1.000)	725505	10.0000		
39 2,2,4-Trimethylpentane	57		Compound Not Detected.						
40 Heptane	43		6.435	6.442	(1.057)	10330	0.84278	1.21 (M)	
41 1,2-Dichloropropane	63		Compound Not Detected.						
42 Trichloroethene	130		Compound Not Detected.						
43 1,4-Dioxane	88		Compound Not Detected.						
44 Bromodichloromethane	83		Compound Not Detected.						
45 Methyl Isobutyl Ketone	43		7.235	7.229	(1.188)	3901	0.49929	0.719 (M)	
46 cis-1,3-Dichloropropene	75		Compound Not Detected.						
47 trans-1,3-Dichloropropene	75		Compound Not Detected.						
\$ 48 Toluene-d8 (S)	98		7.842	7.848	(1.288)	509892	10.0632	10.1	
49 Toluene	91		7.930	7.940	(1.302)	152537	2.13966	3.08	
50 1,1,2-Trichloroethane	97		Compound Not Detected.						
51 Methyl Butyl Ketone	43		8.248	8.244	(0.852)	6066	0.49778	0.717	
52 Dibromochloromethane	129		Compound Not Detected.						
53 1,2-Dibromoethane	107		Compound Not Detected.						
54 Tetrachloroethene	166		8.911	8.918	(0.920)	5654	0.50687	0.730	
* 55 Chlorobenzene - d5	117		9.684	9.691	(1.000)	277579	10.0000		
56 Chlorobenzene	112		Compound Not Detected.						
57 Ethyl Benzene	91		10.035	10.039	(1.036)	51470	0.78478	1.13	
58 m&p-Xylene	91		10.199	10.213	(1.053)	167647	2.21520	3.19	
59 Bromoform	173		Compound Not Detected.						
60 Styrene	104		10.701	10.708	(1.105)	7471	0.59986	0.864	
61 o-Xylene	91		10.777	10.783	(1.113)	54831	0.80833	1.16	
62 1,1,2,2-Tetrachloroethane	83		Compound Not Detected.						
63 Isopropylbenzene	105		Compound Not Detected.						
64 N-Propylbenzene	91		12.111	12.121	(1.251)	21708	0.46077	0.664 (M)	
65 4-Ethyltoluene	105		12.311	12.321	(1.271)	32257	0.63764	0.918 (M)	
66 1,3,5-Trimethylbenzene	105		12.416	12.426	(1.282)	32009	0.64509	0.929	
67 1,2,4-Trimethylbenzene	105		13.013	13.020	(1.344)	149298	2.04242	2.94	
68 1,3-Dichlorobenzene	146		Compound Not Detected.						
69 Sec- Butylbenzene	105		Compound Not Detected.						
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.449	13.459	(1.389)	104555	9.33164	9.33	
71 Benzyl Chloride	91		Compound Not Detected.						
72 1,4-Dichlorobenzene	146		Compound Not Detected.						
73 1,2-Dichlorobenzene	146		Compound Not Detected.						
74 N-Butylbenzene	91		Compound Not Detected.						
75 1,2,4-Trichlorobenzene	180		Compound Not Detected.						
76 Naphthalene	128		16.860	16.860	(1.741)	39150	1.26863	1.83	
77 Hexachlorobutadiene	225		Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20625.d
Report Date: 26-Jul-2013 08:22

QC Flag Legend

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

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20625.d
Report Date: 26-Jul-2013 08:22

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 20625.d
Lab Smp Id: 10236207010
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
Misc Info: 17870

Calibration Date: 25-JUL-2013
Calibration Time: 13:08

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	725505	25.14
55 Chlorobenzene - d	221404	132842	309966	277579	25.37

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	0.00
55 Chlorobenzene - d	9.69	9.36	10.02	9.68	-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\072513.b\20625.D

Date : 26-JUL-2013 01:00

Client ID:

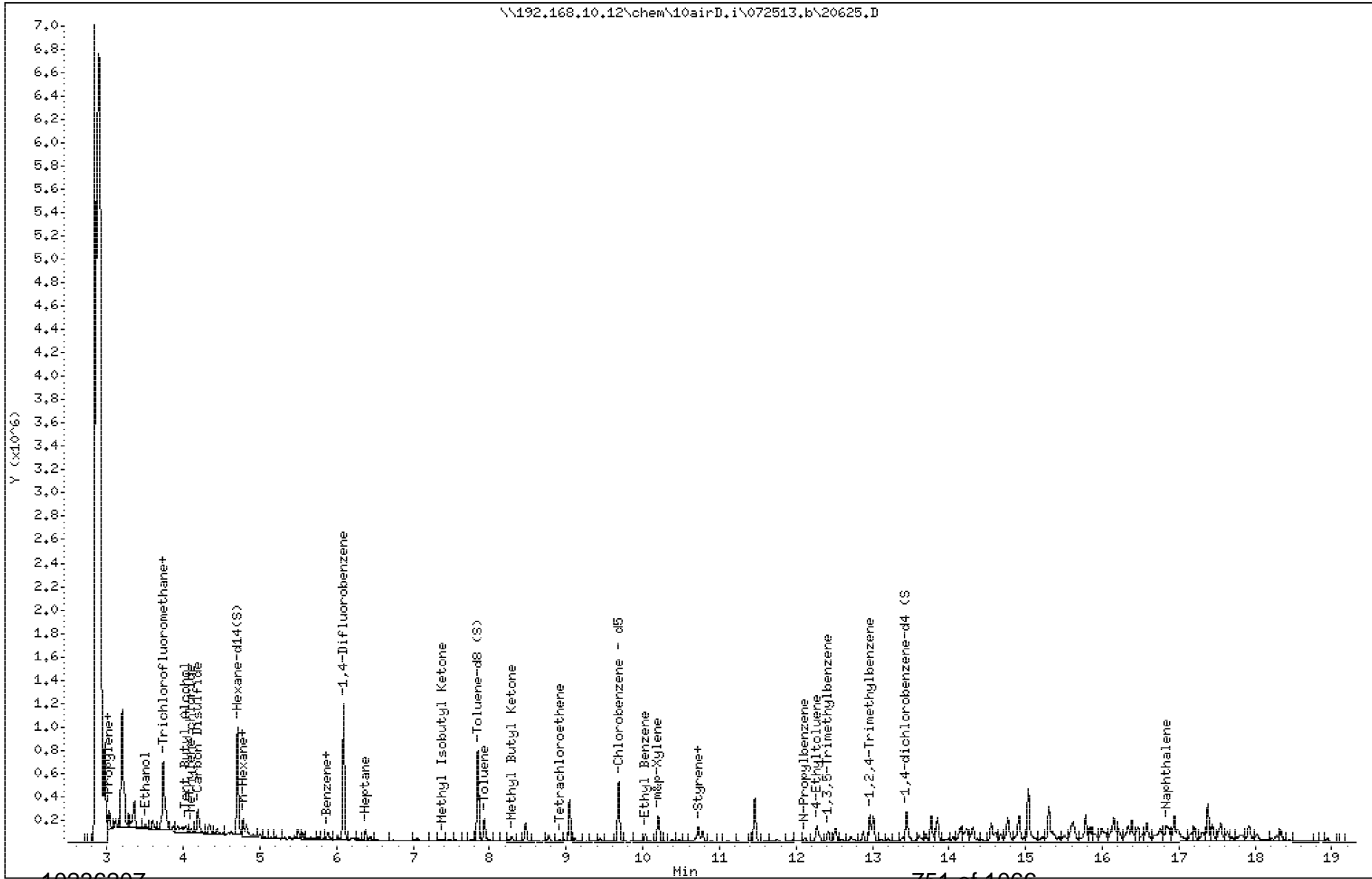
Instrument: 10airD.i

Sample Info:

Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20625.D

Date : 26-JUL-2013 01:00

Client ID:

Instrument: 10airD.i

Sample Info:

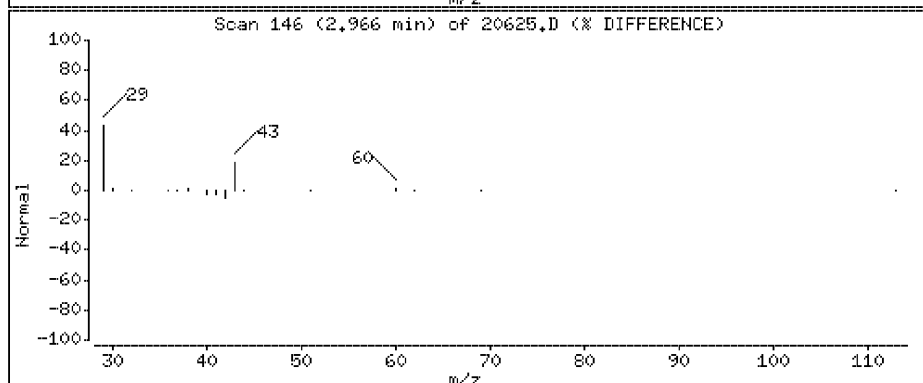
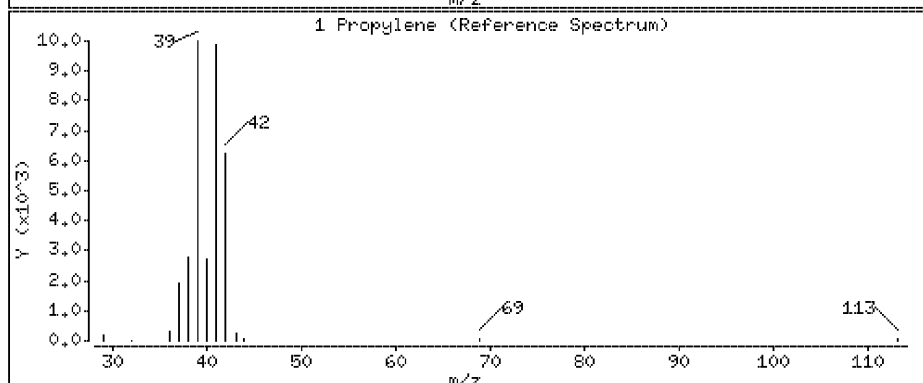
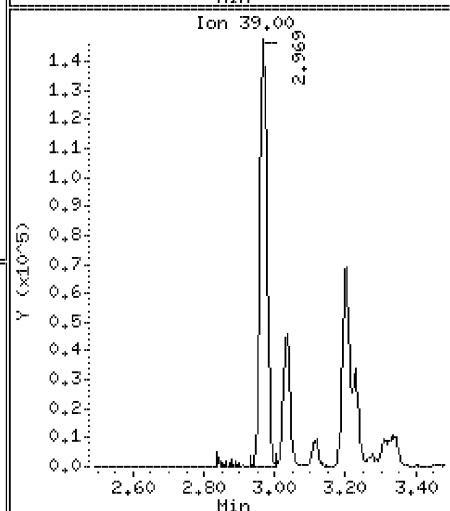
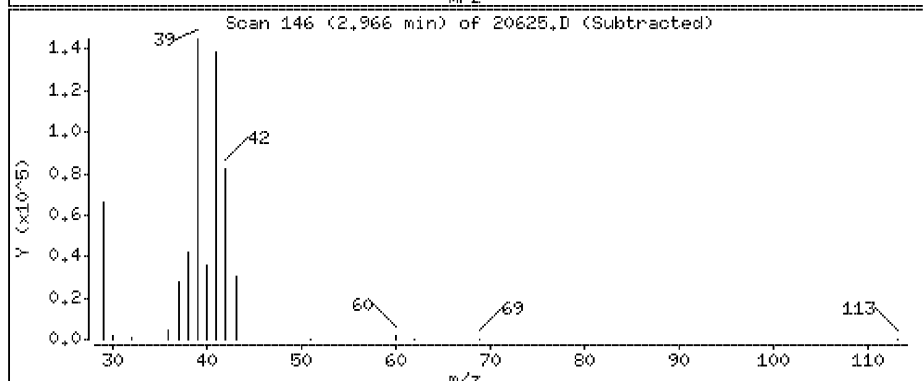
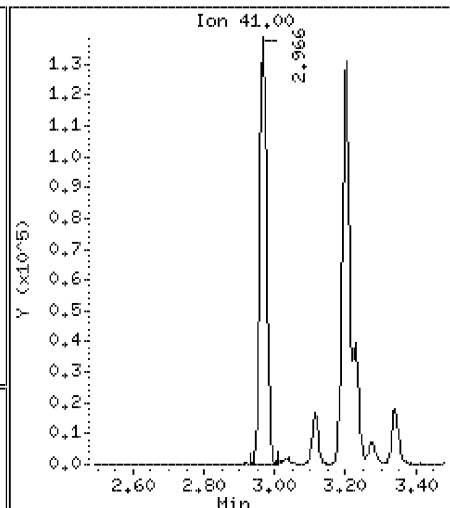
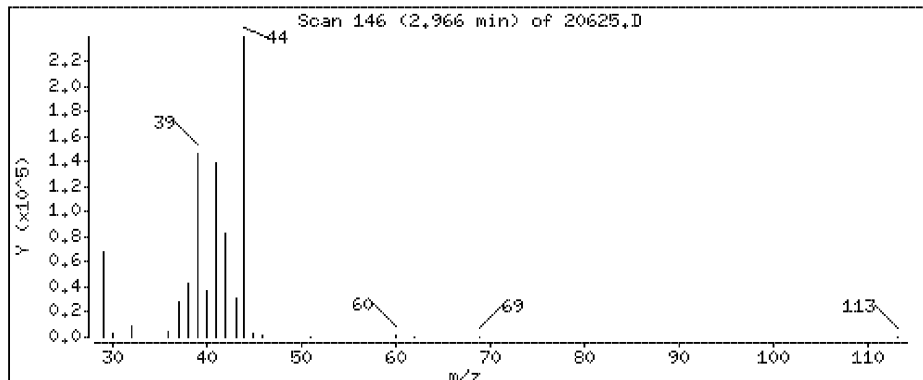
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

1 Propylene

Concentration: 29,1 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20625.D

Date : 26-JUL-2013 01:00

Client ID:

Instrument: 10airD.i

Sample Info:

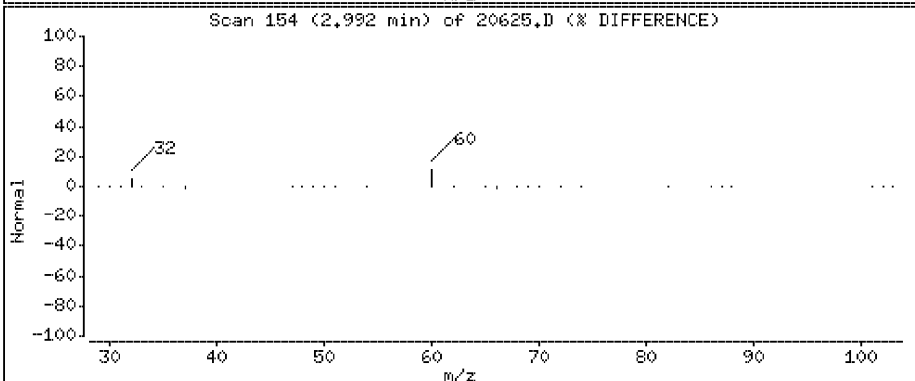
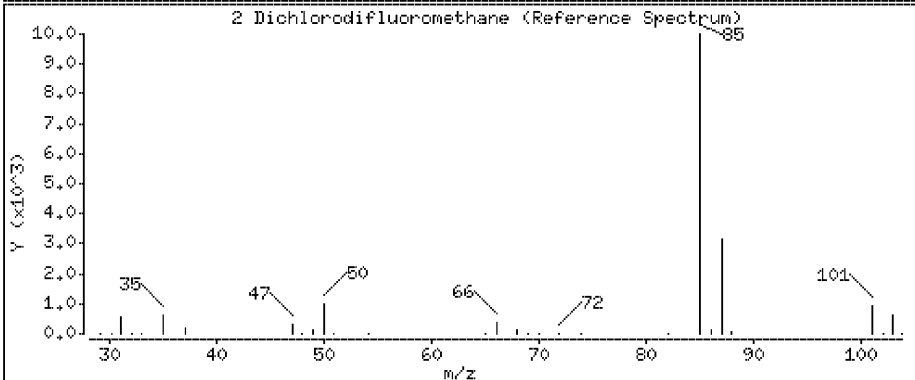
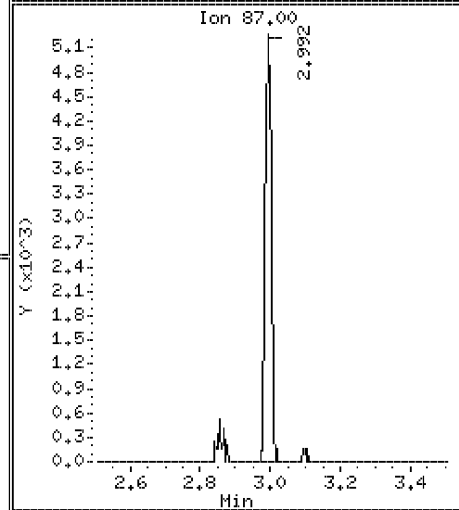
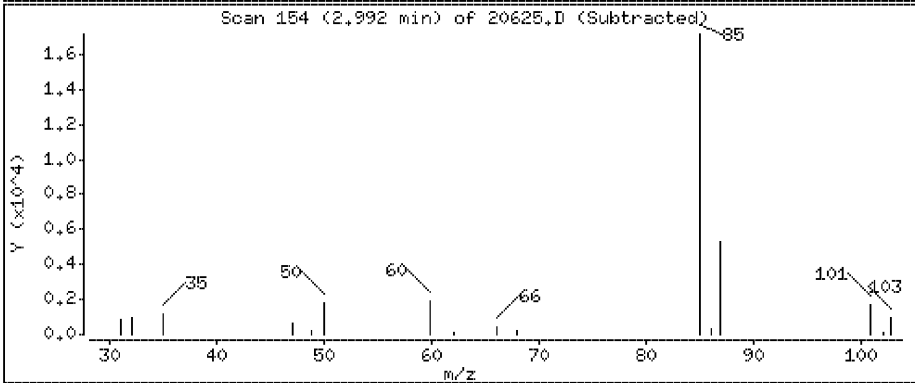
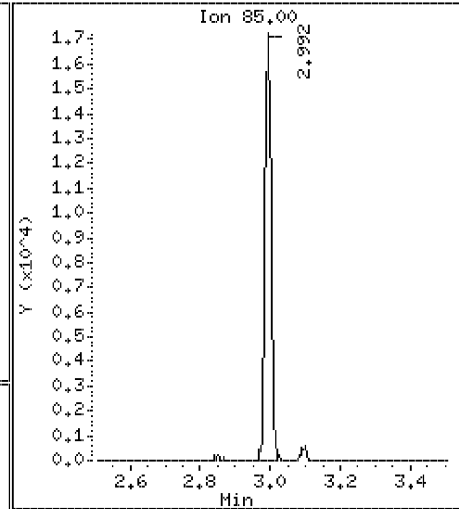
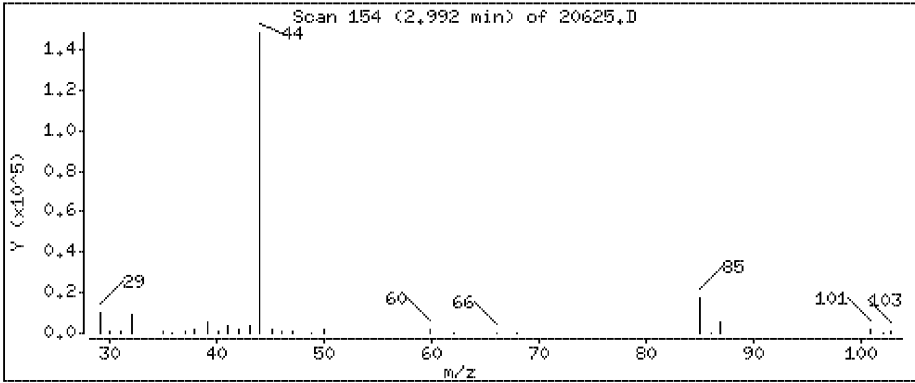
Operator: DR1

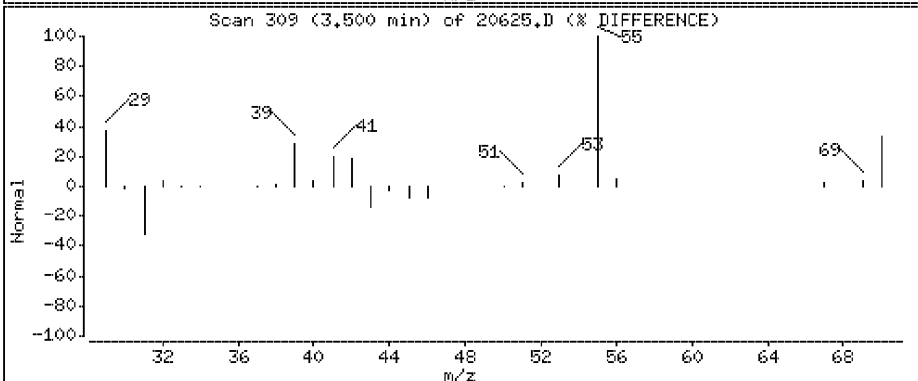
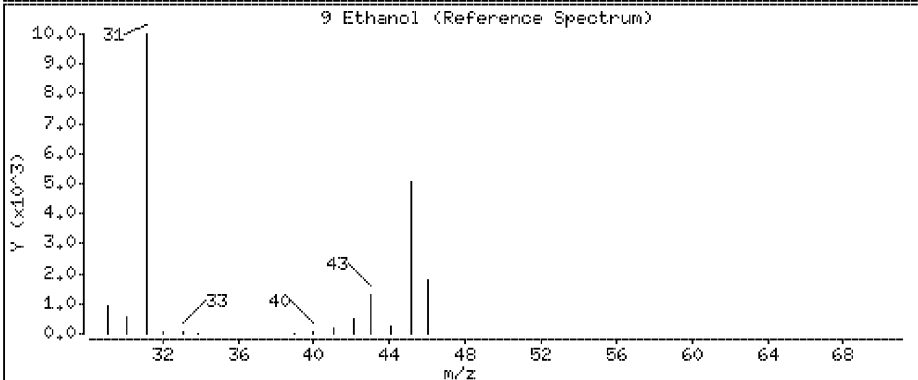
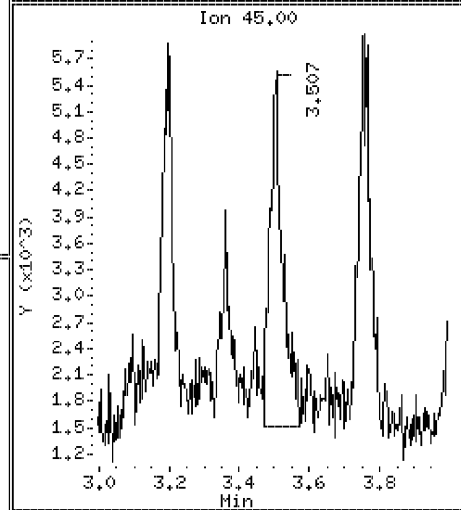
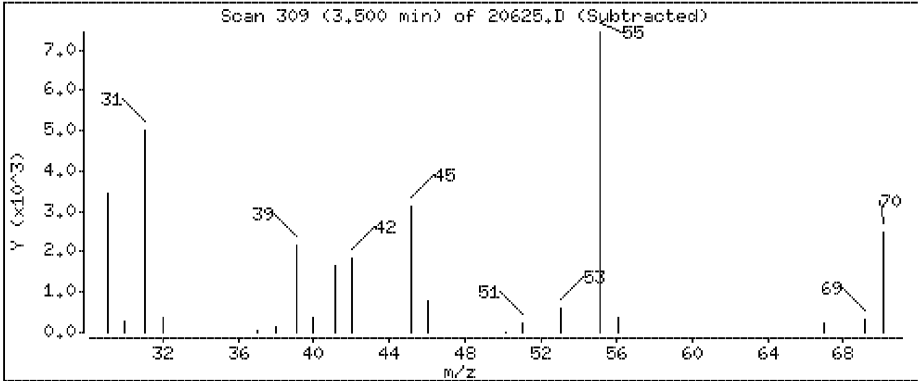
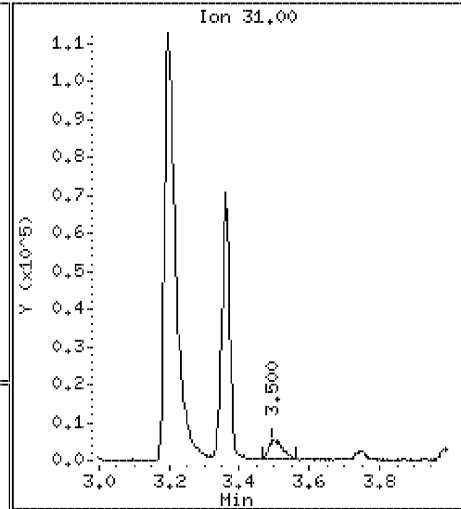
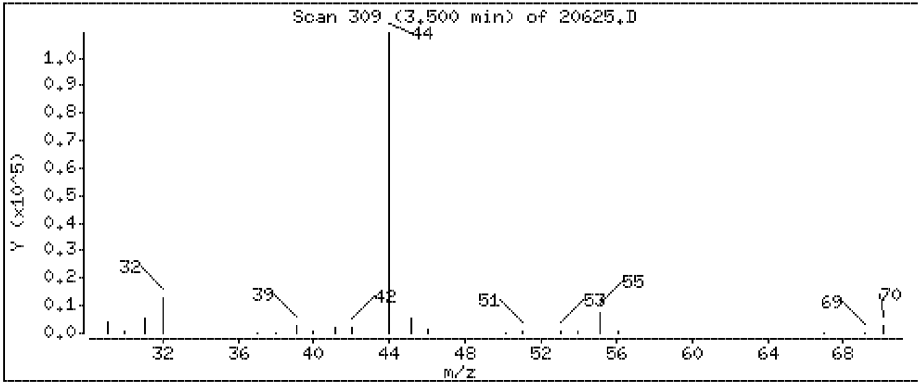
Column phase: J&W DB-5

Column diameter: 0,32

2 Dichlorodifluoromethane

Concentration: 0,334 ppbv





Data File: \\192.168.10.12\chem\10airD.i\072513,b\20625.D

Date : 26-JUL-2013 01:00

Client ID:

Instrument: 10airD.i

Sample Info:

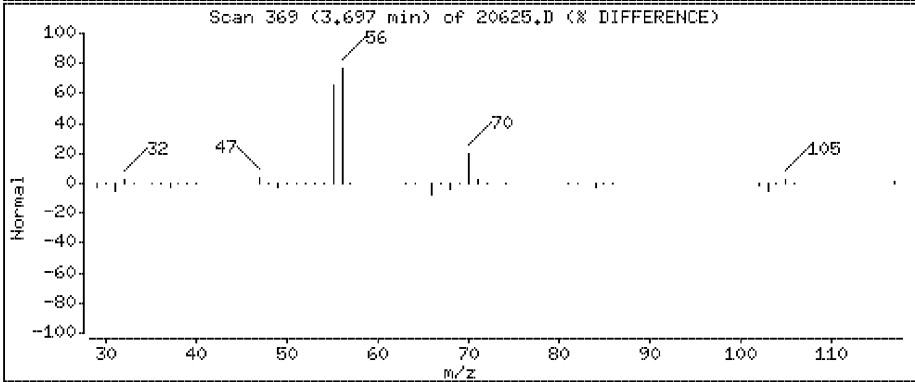
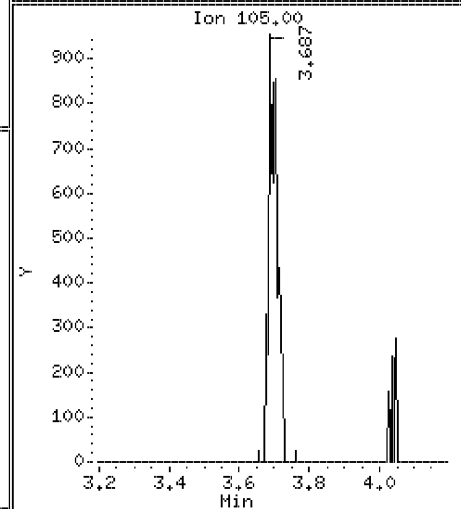
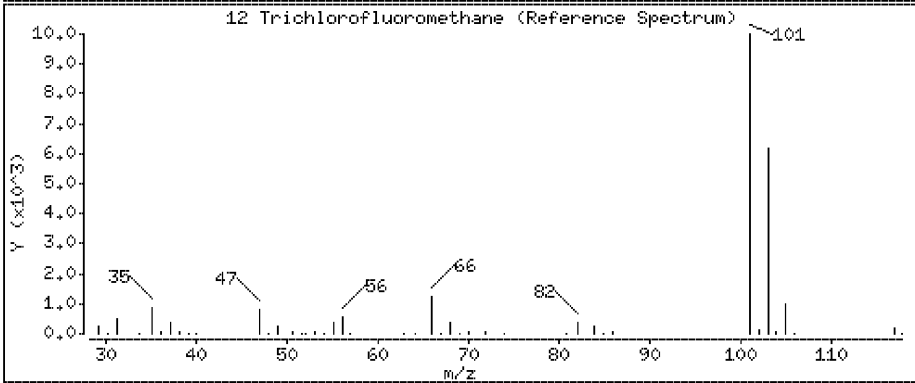
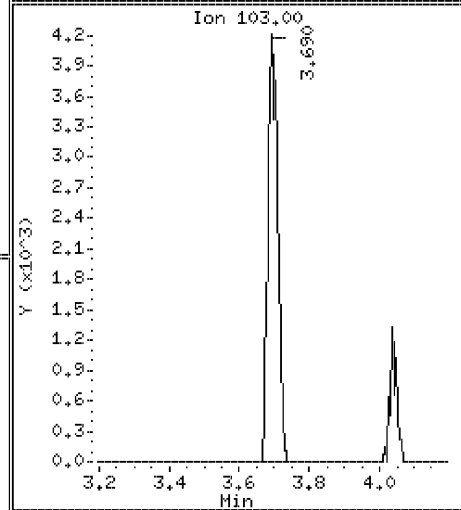
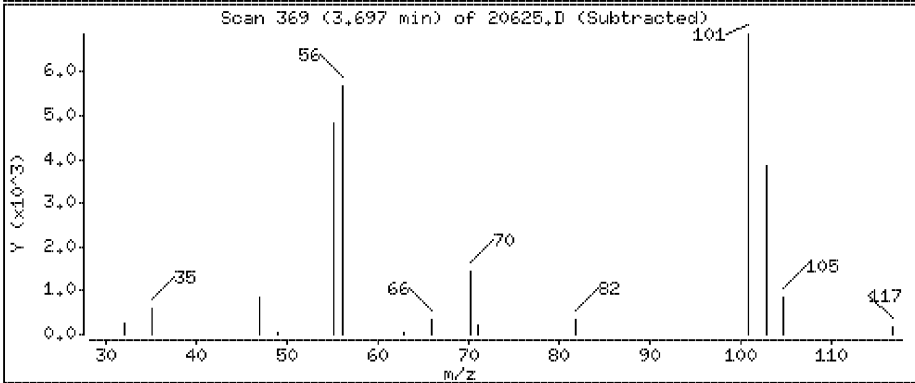
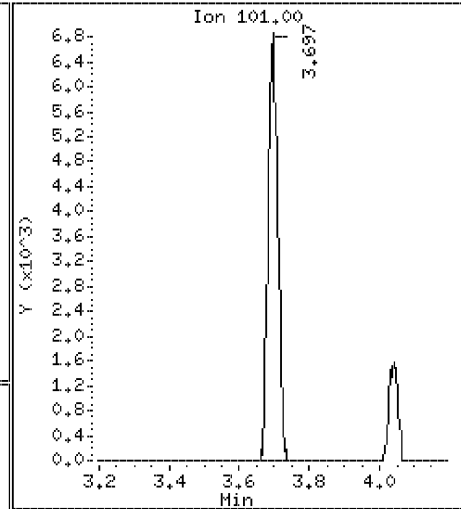
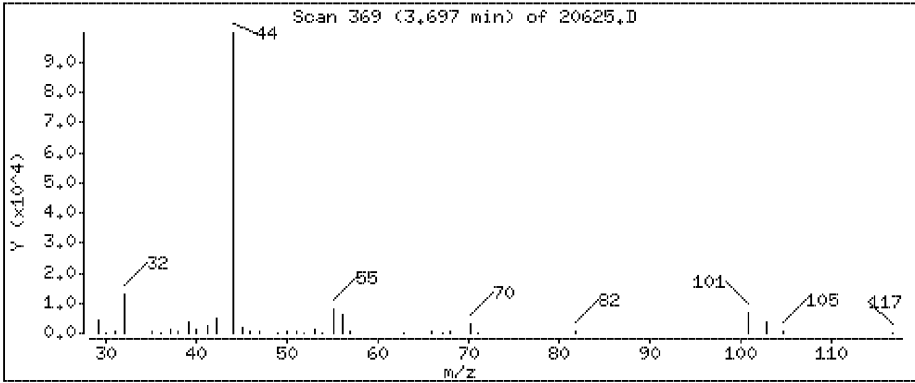
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

12 Trichlorofluoromethane

Concentration: 0.200 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20625.D

Date : 26-JUL-2013 01:00

Client ID:

Instrument: 10airD.i

Sample Info:

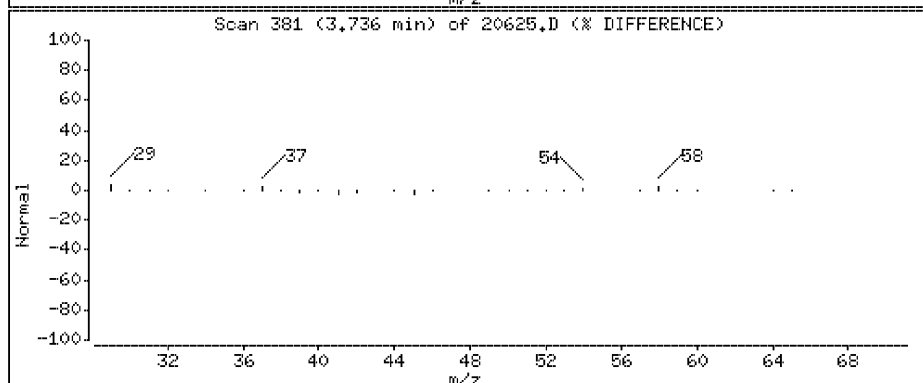
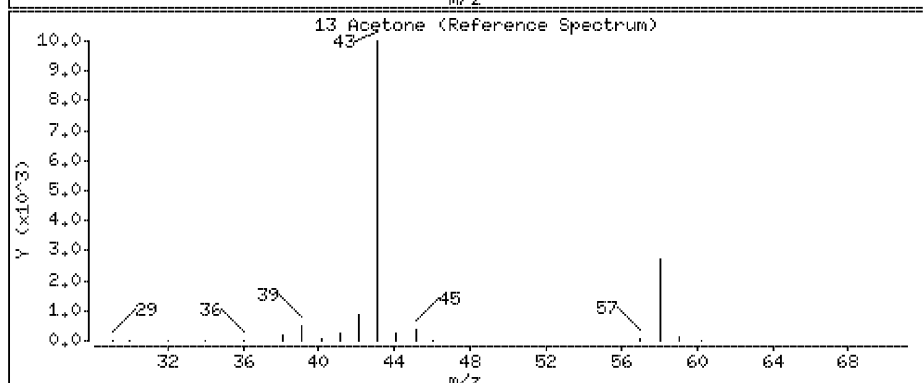
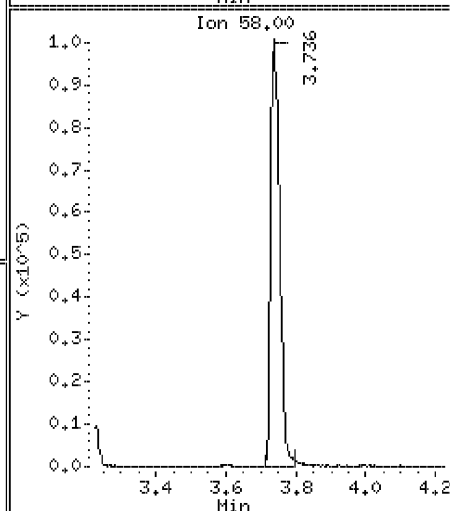
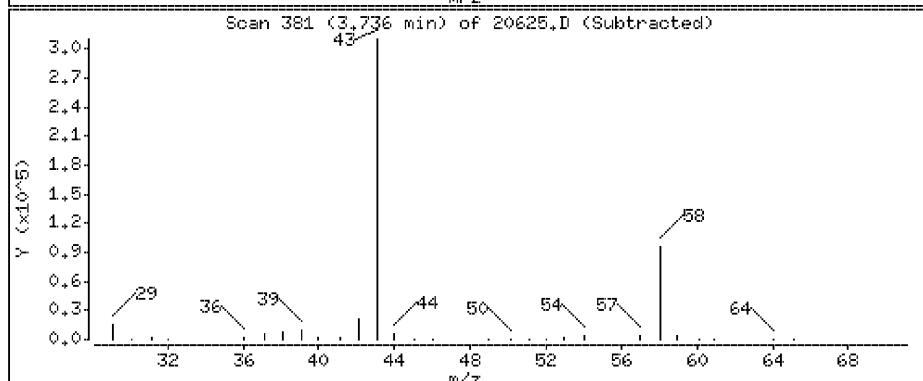
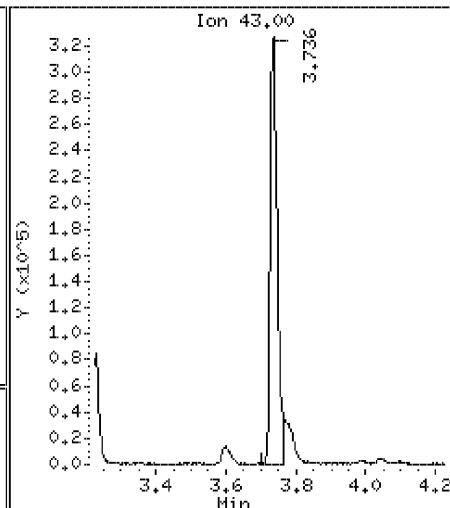
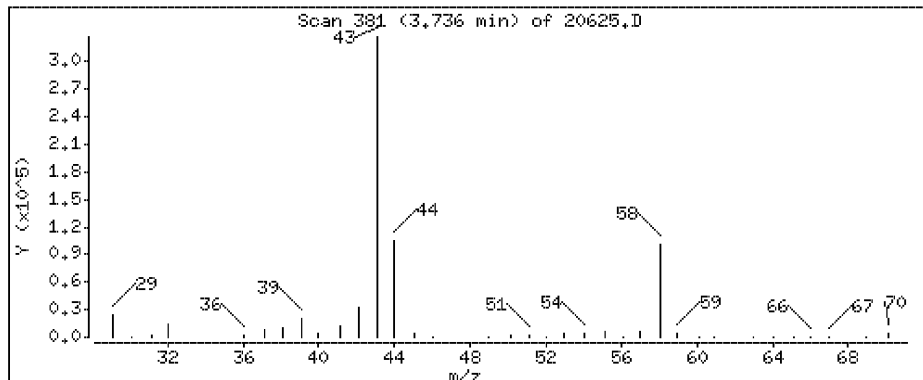
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

13 Acetone

Concentration: 13,7 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20625.D

Date : 26-JUL-2013 01:00

Client ID:

Instrument: 10airD.i

Sample Info:

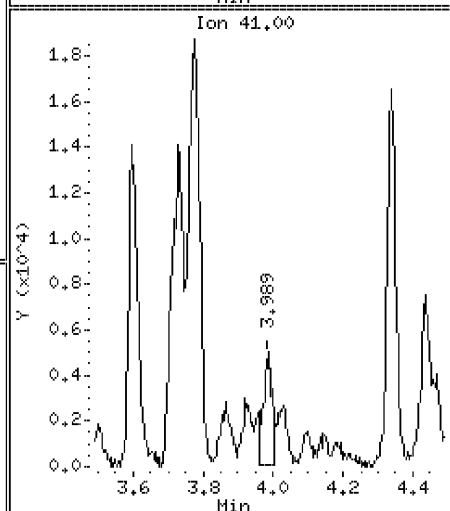
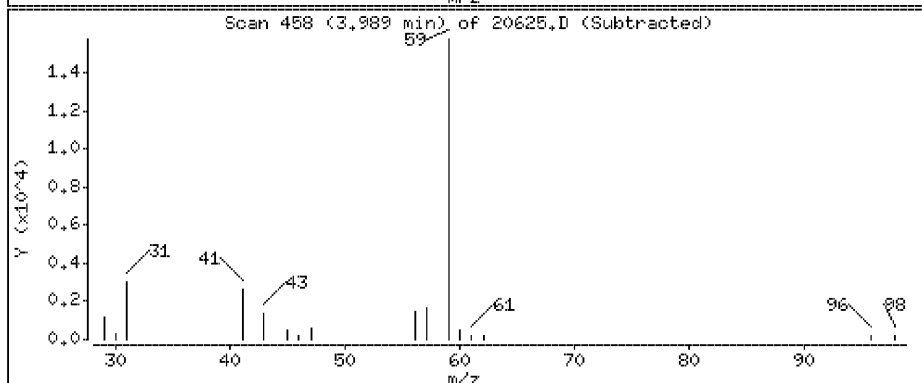
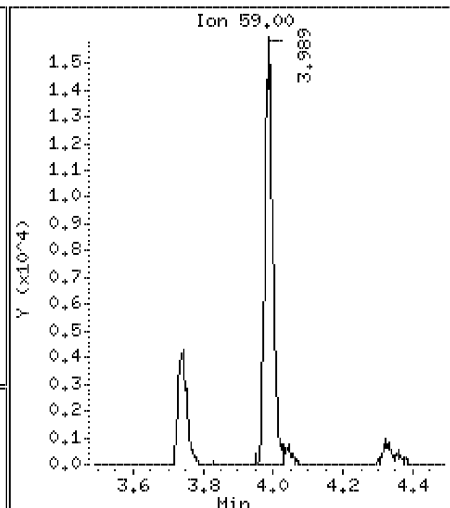
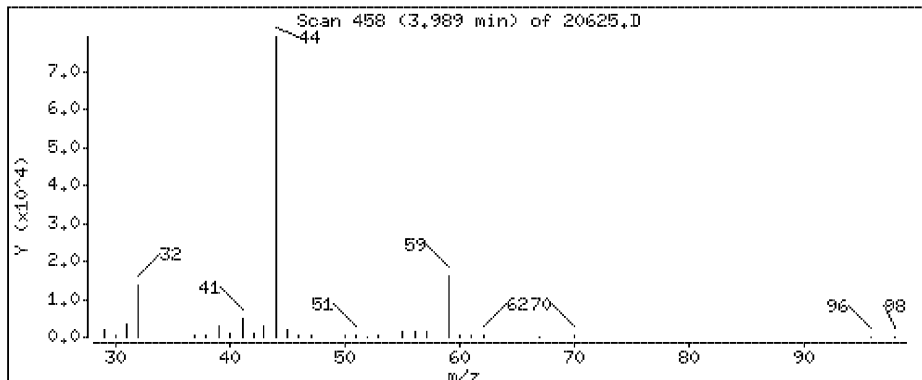
Operator: DR1

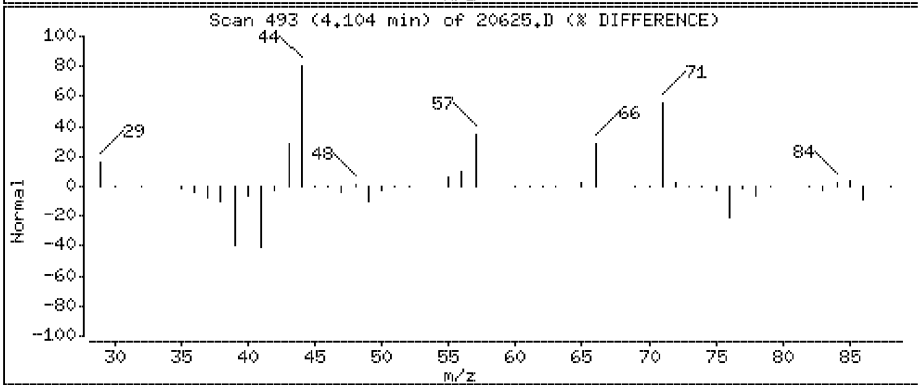
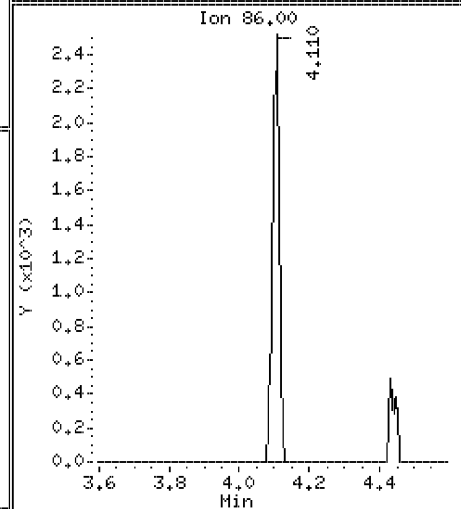
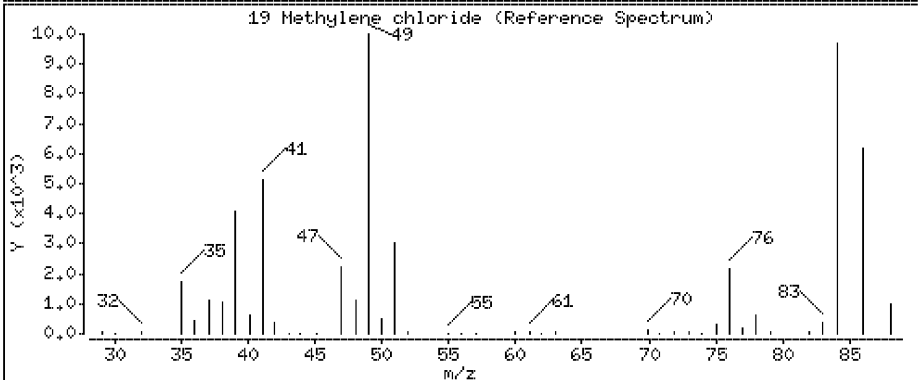
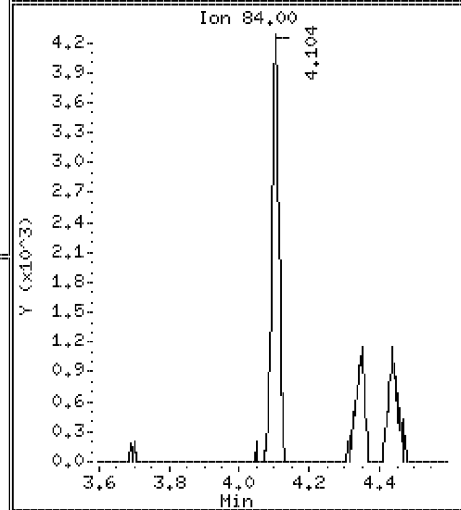
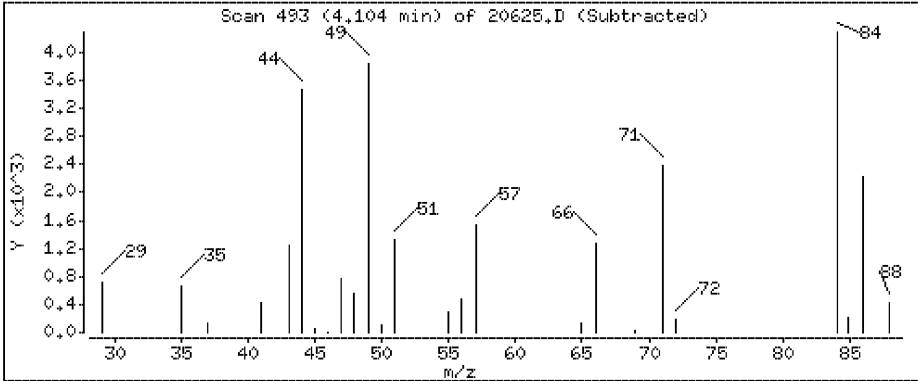
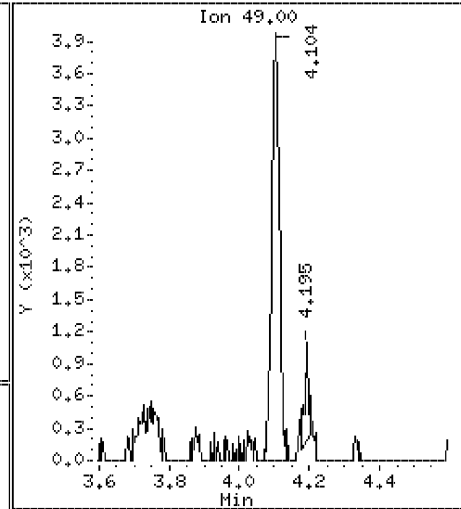
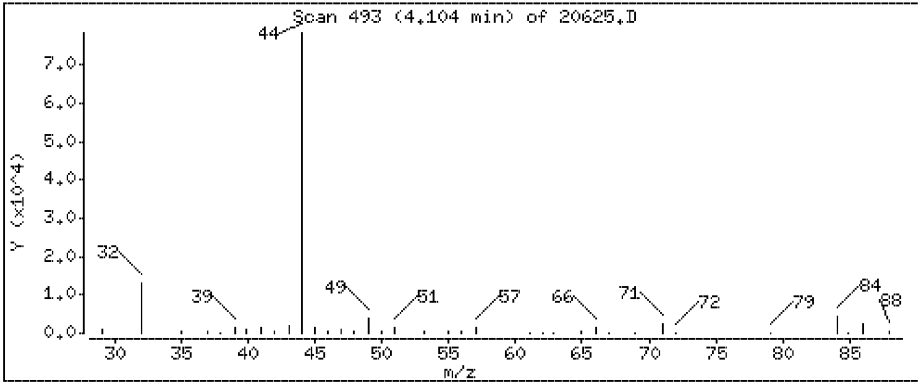
Column phase: J&W DB-5

Column diameter: 0.32

17 Tert Butyl Alcohol

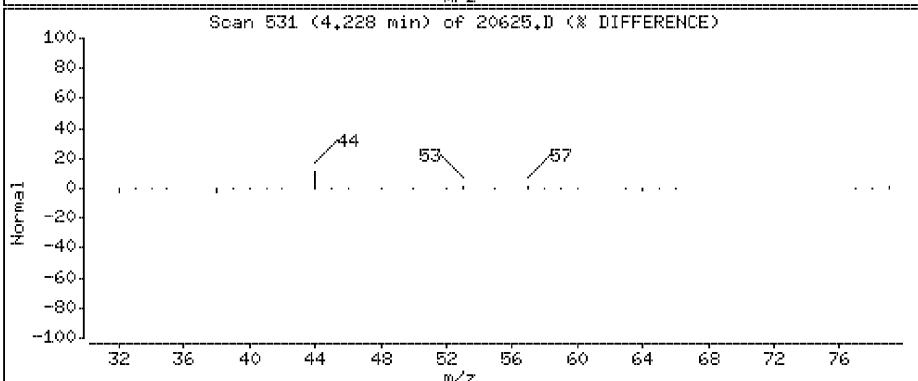
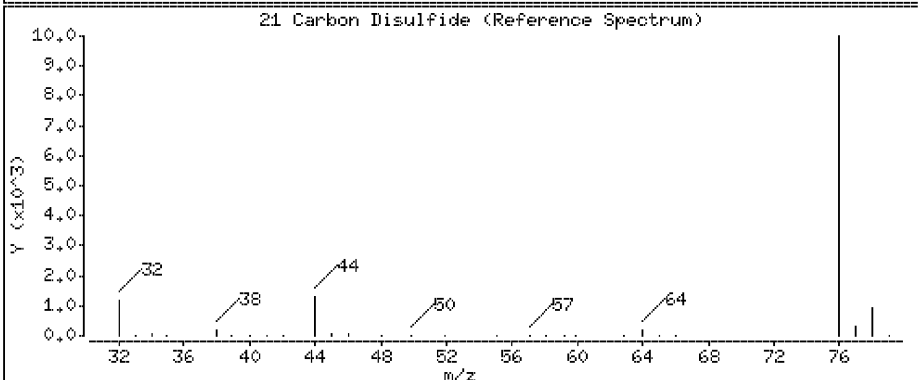
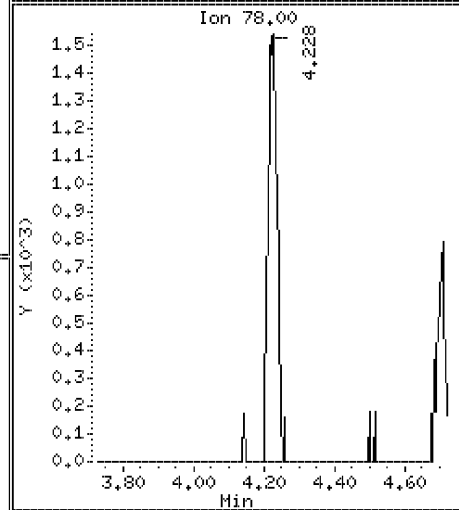
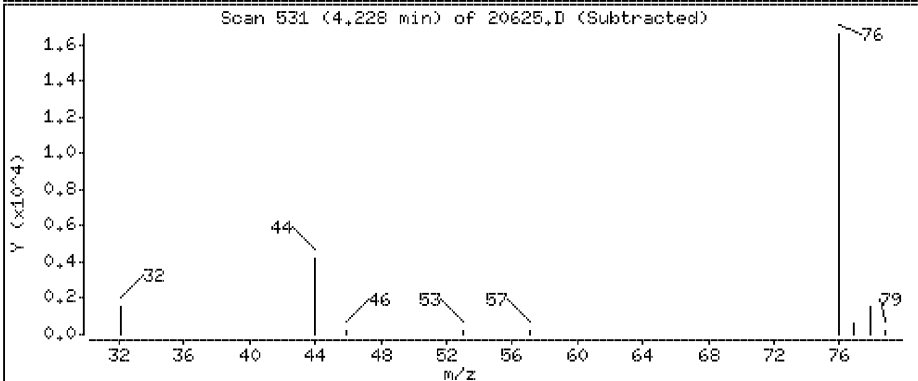
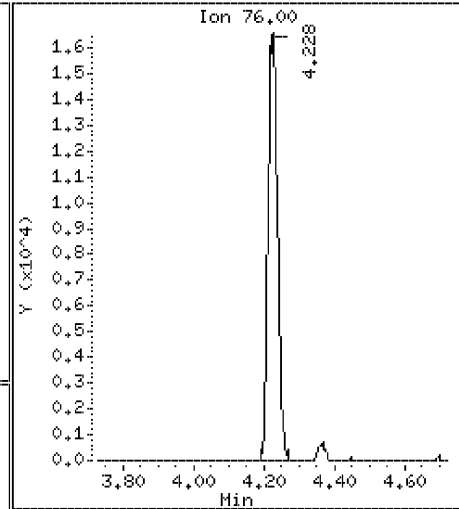
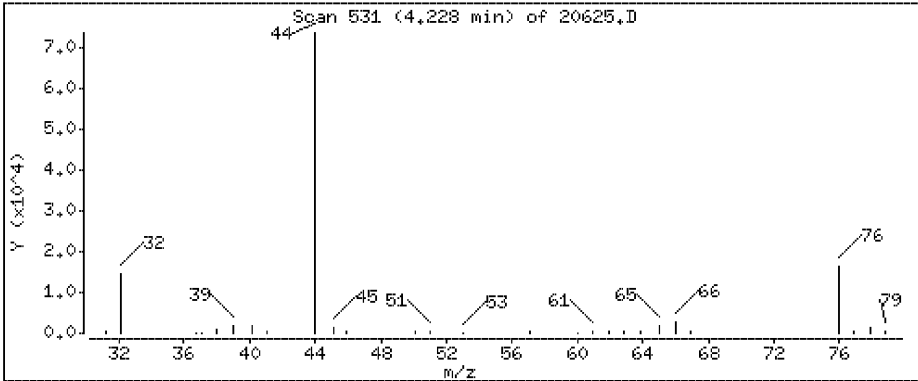
Concentration: 0.712 ppbv





21 Carbon Disulfide

Concentration: 0,575 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20625.D

Date : 26-JUL-2013 01:00

Client ID:

Instrument: 10airD.i

Sample Info:

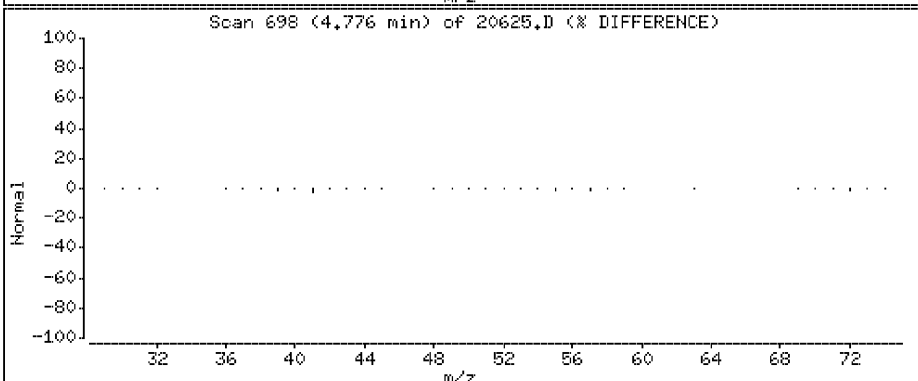
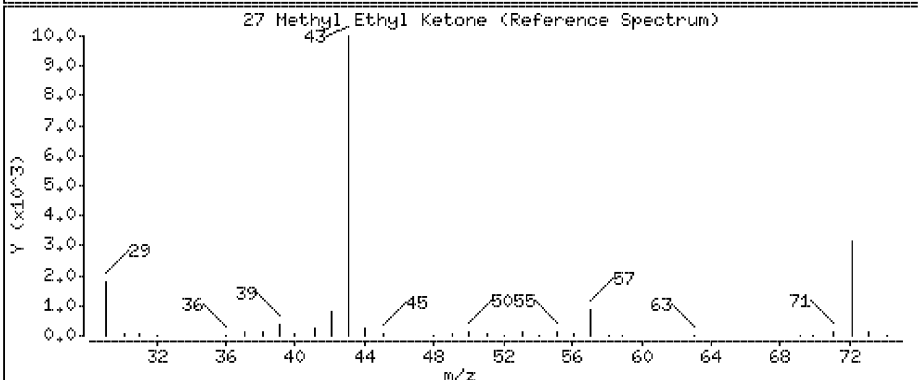
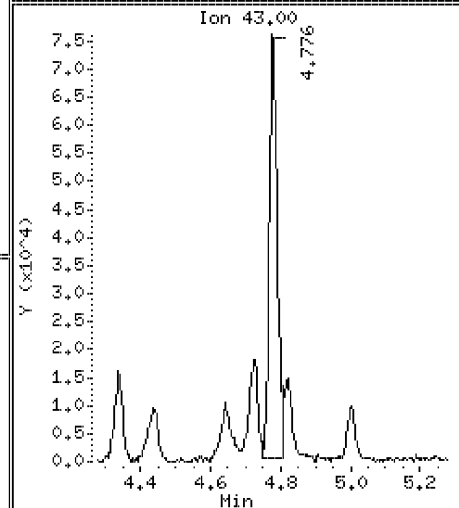
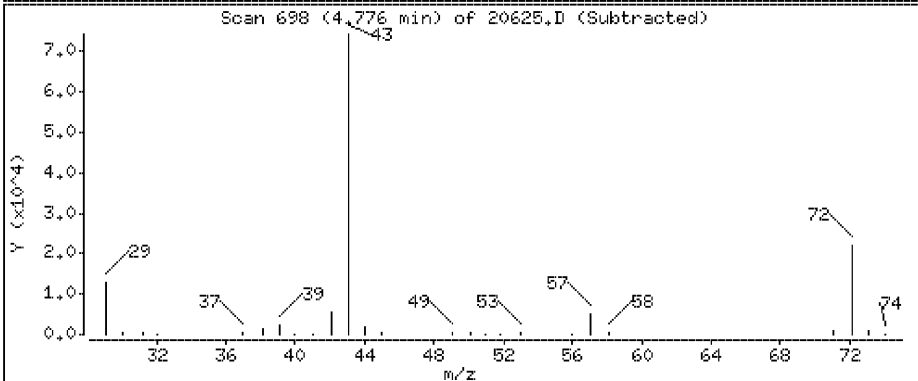
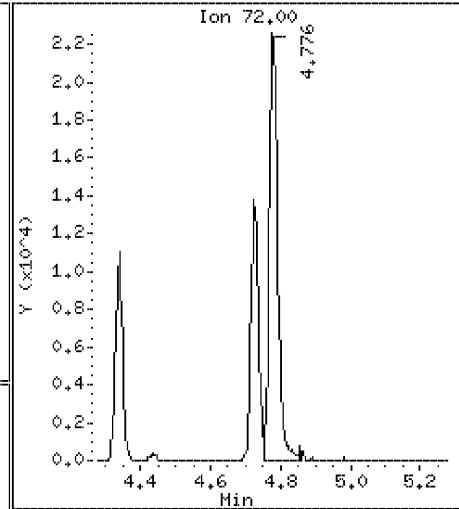
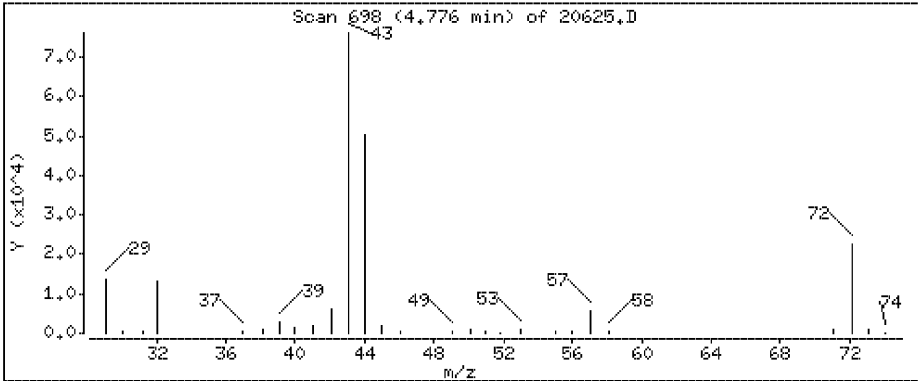
Operator: DR1

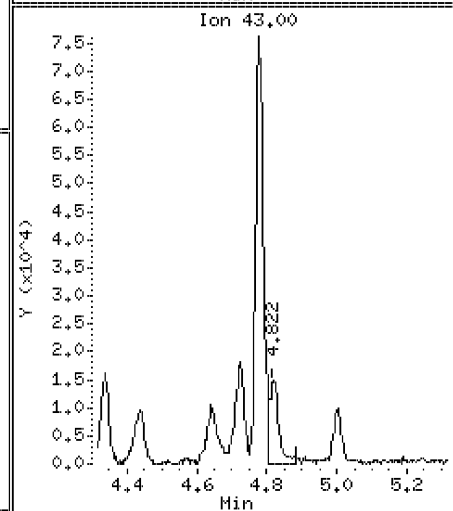
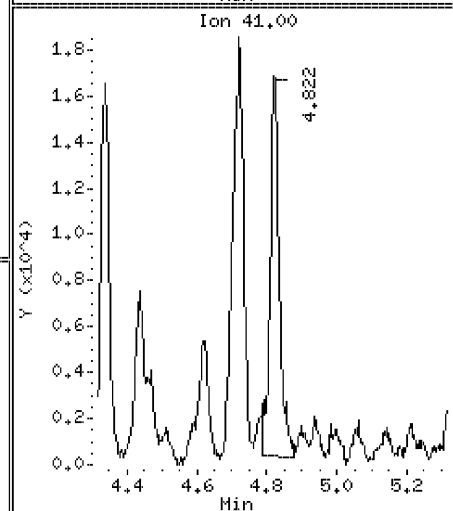
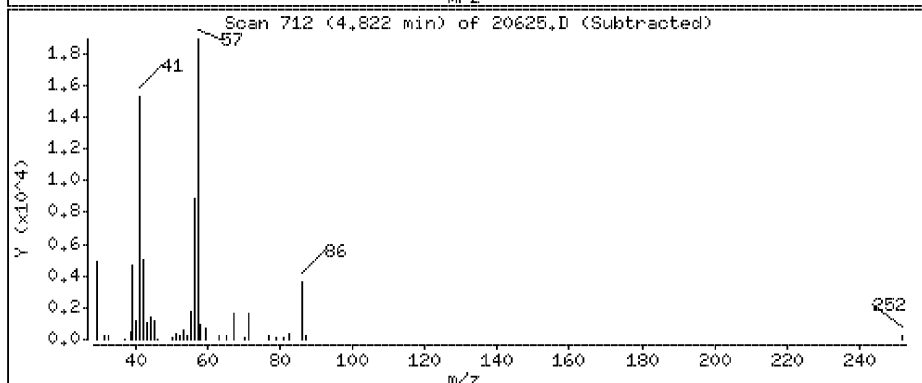
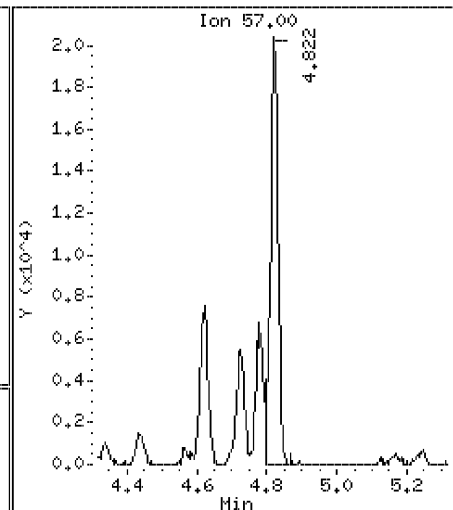
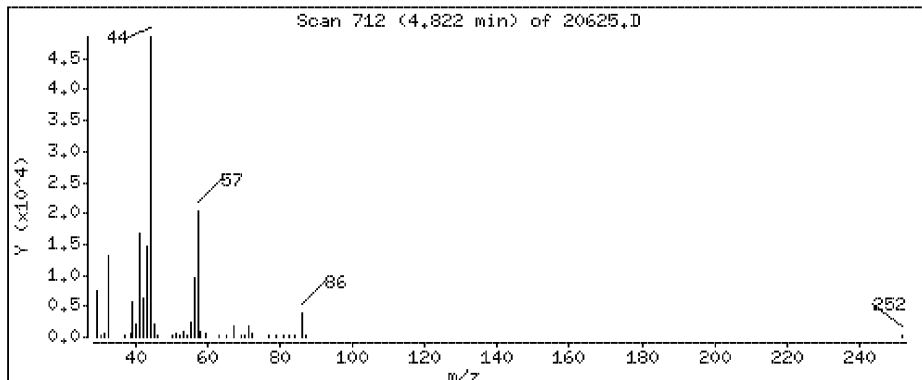
Column phase: J&W DB-5

Column diameter: 0.32

27 Methyl Ethyl Ketone

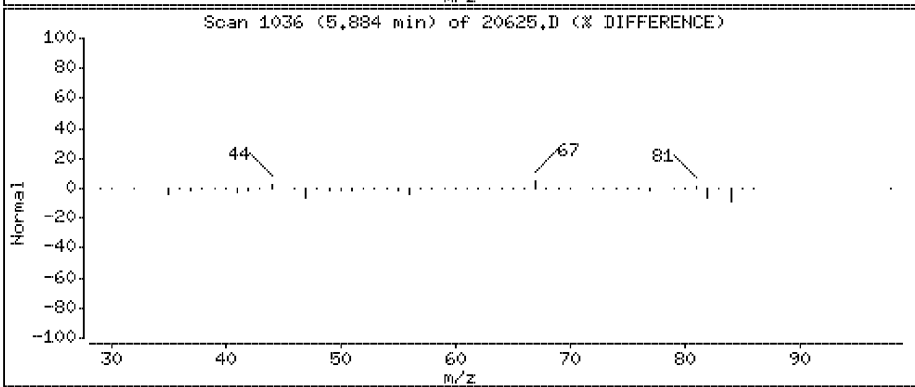
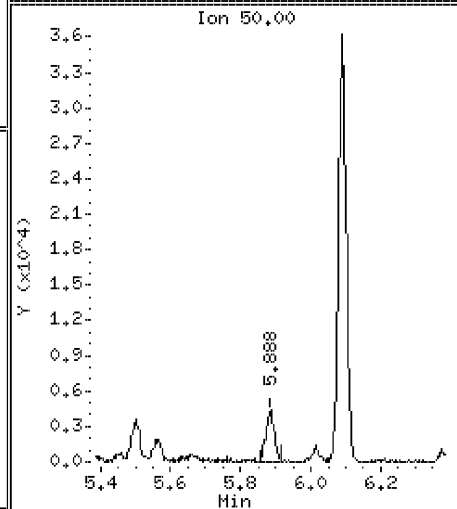
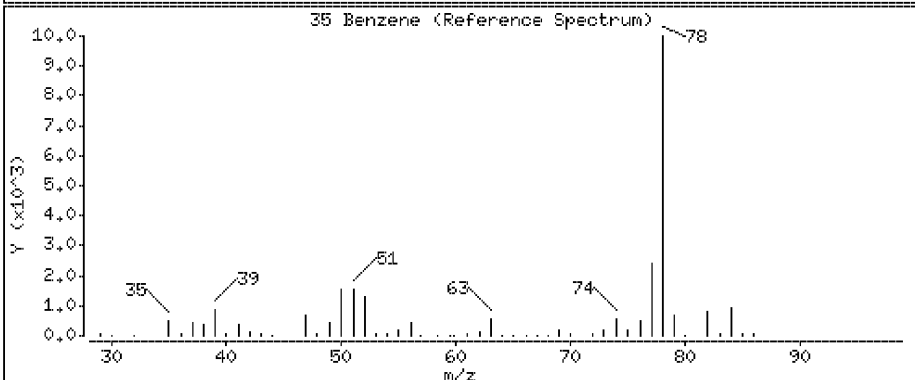
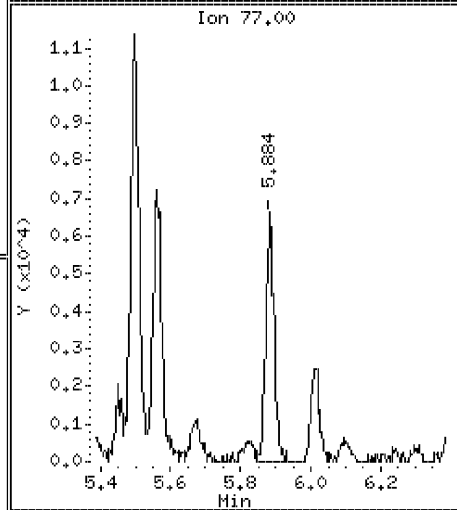
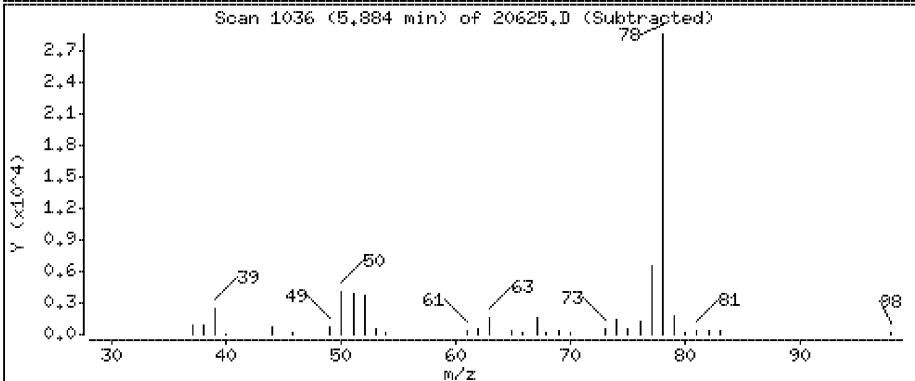
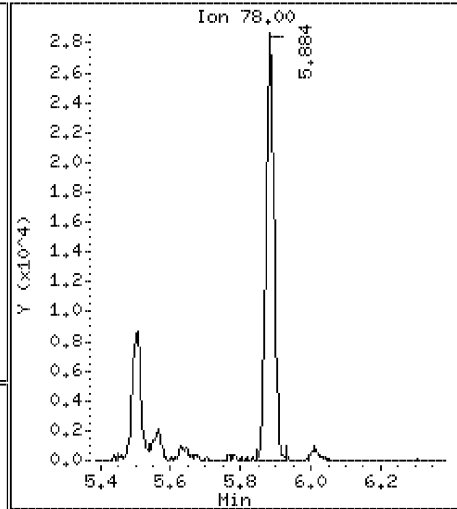
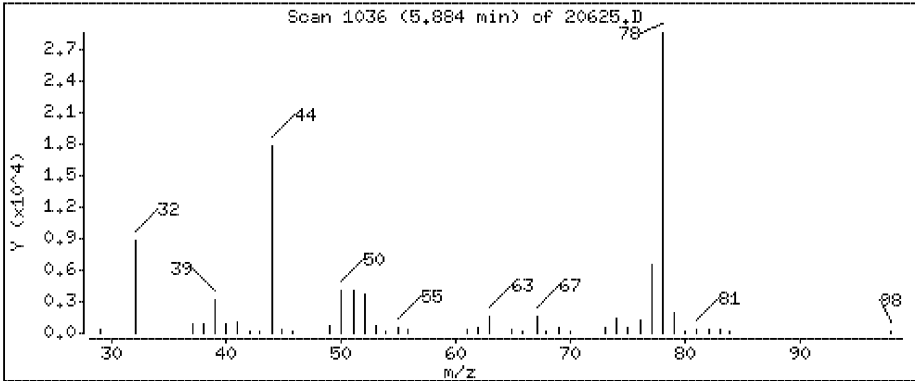
Concentration: 4.98 ppbv

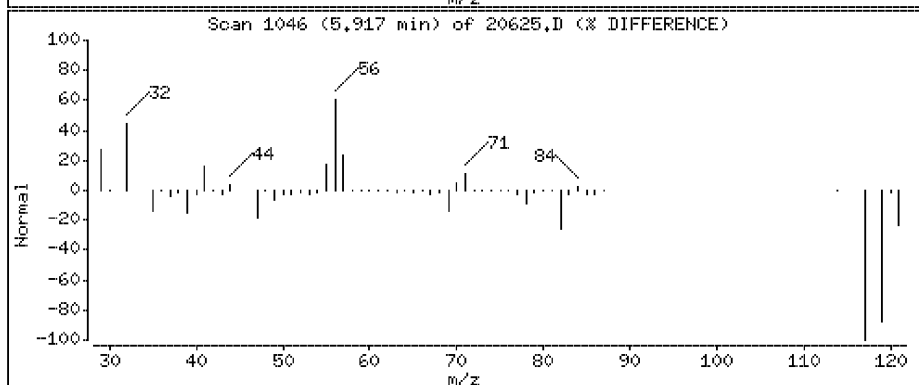
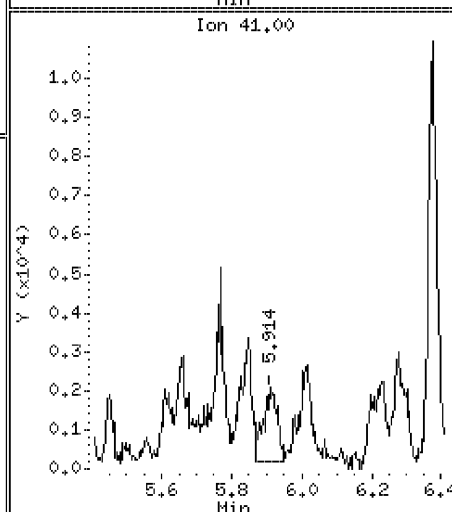
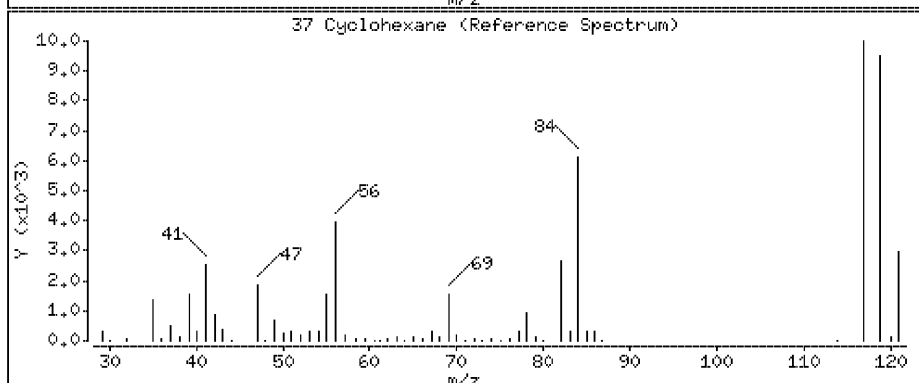
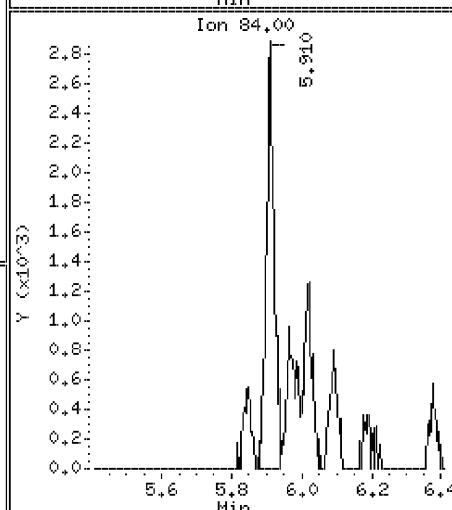
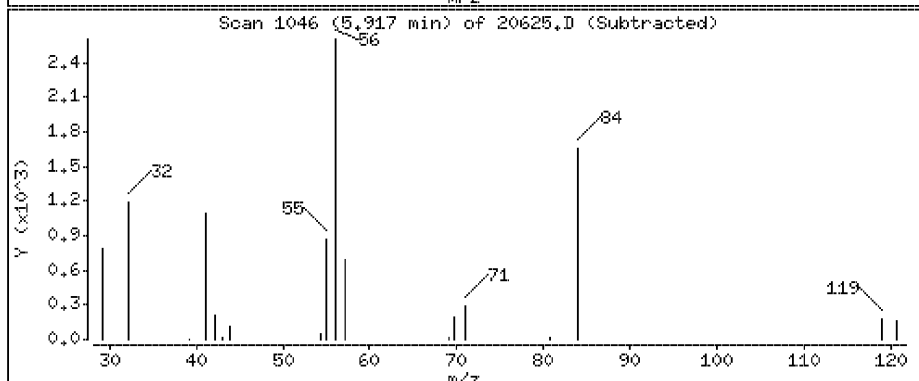
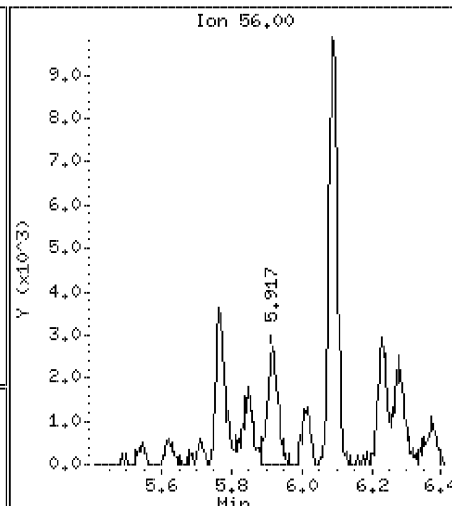
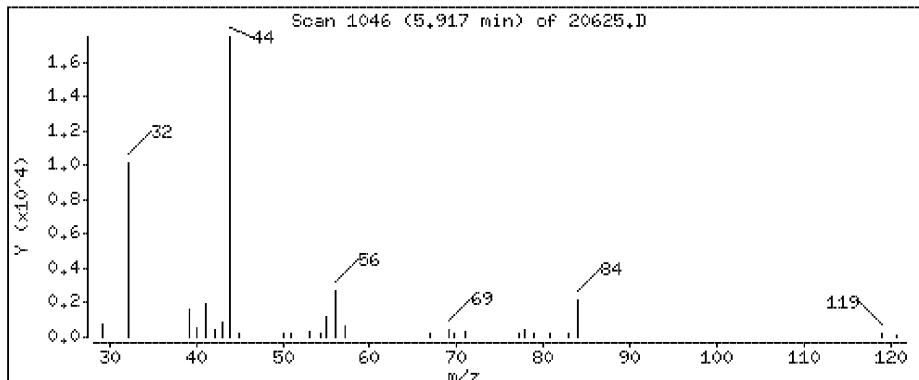


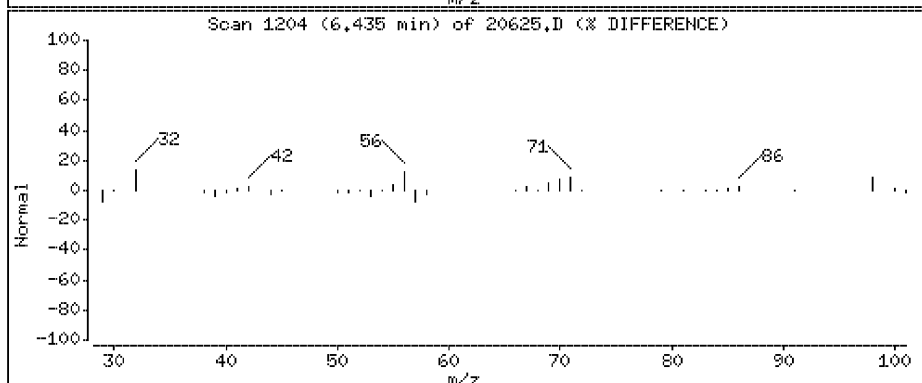
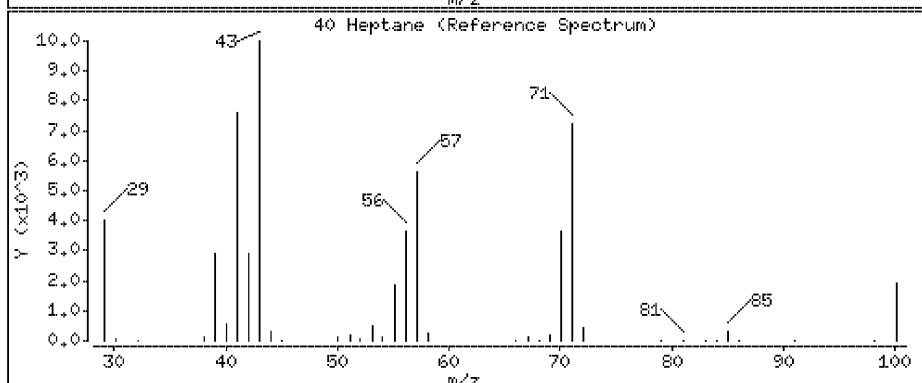
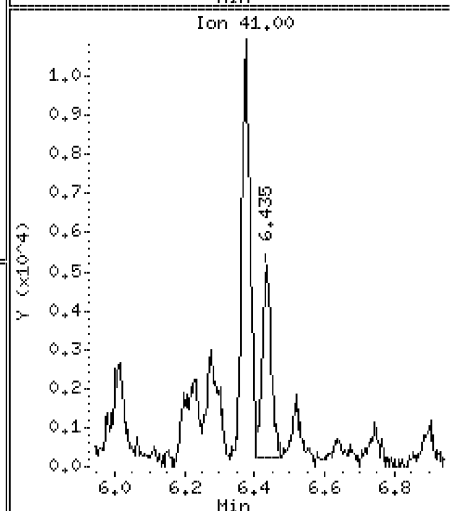
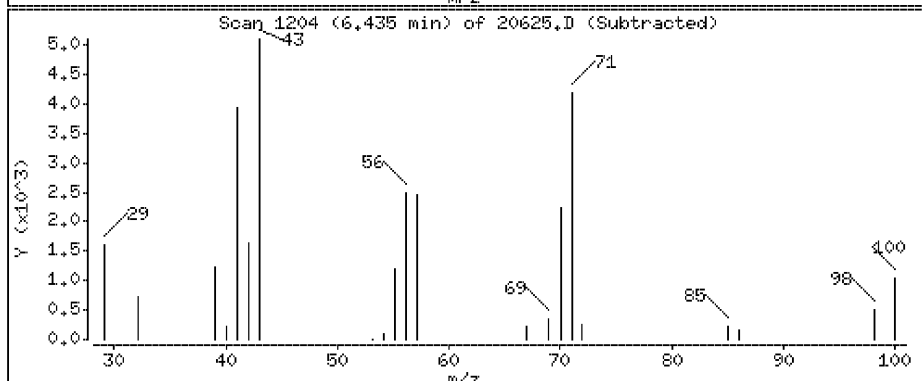
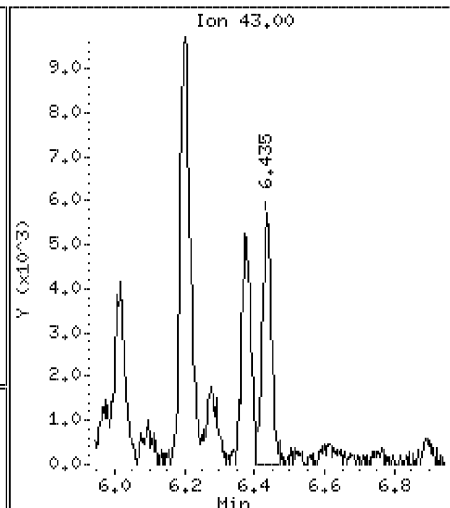
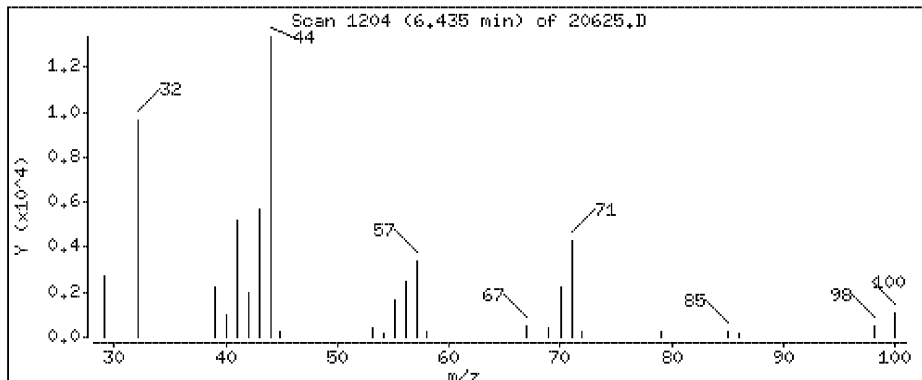


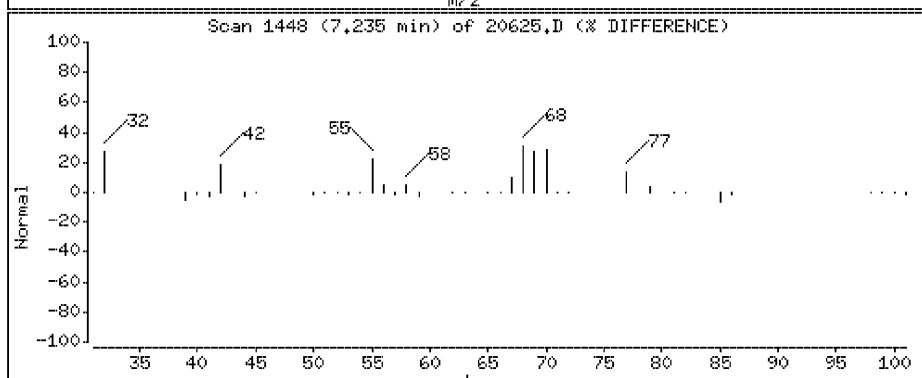
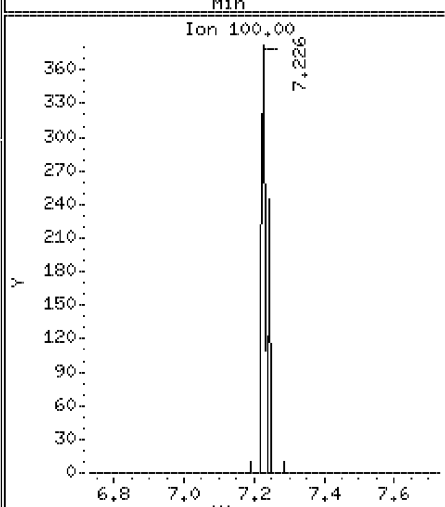
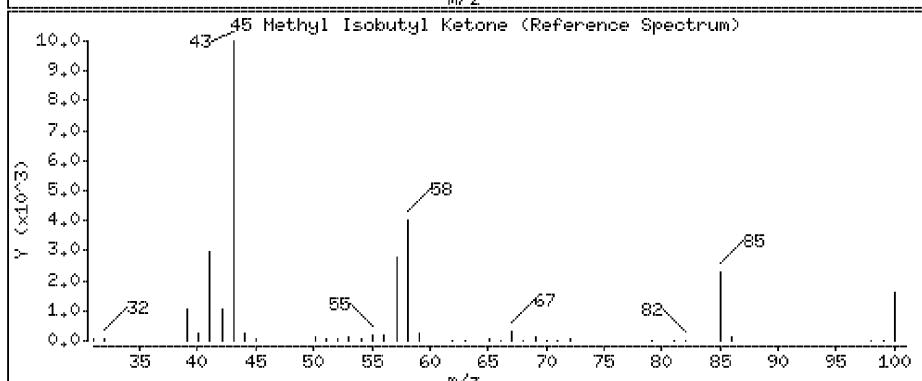
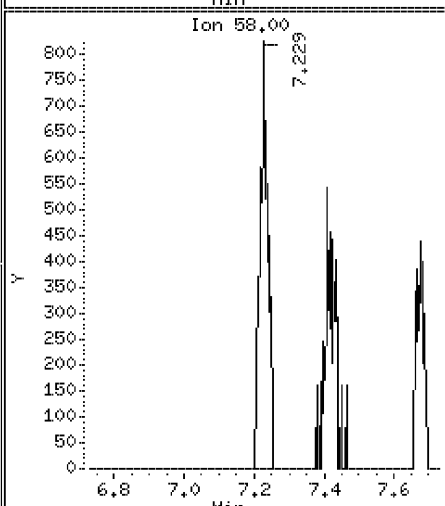
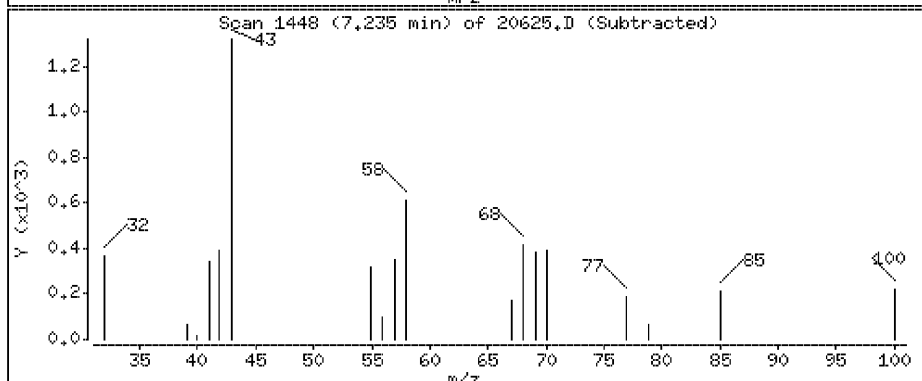
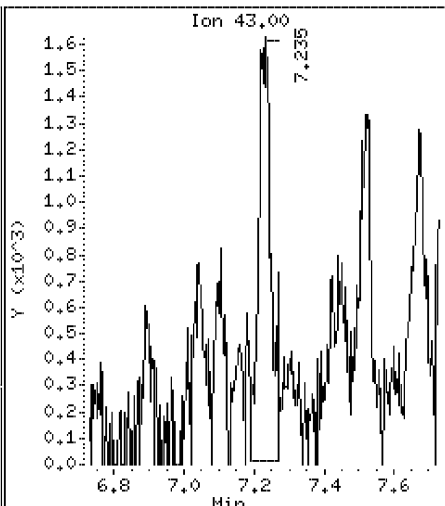
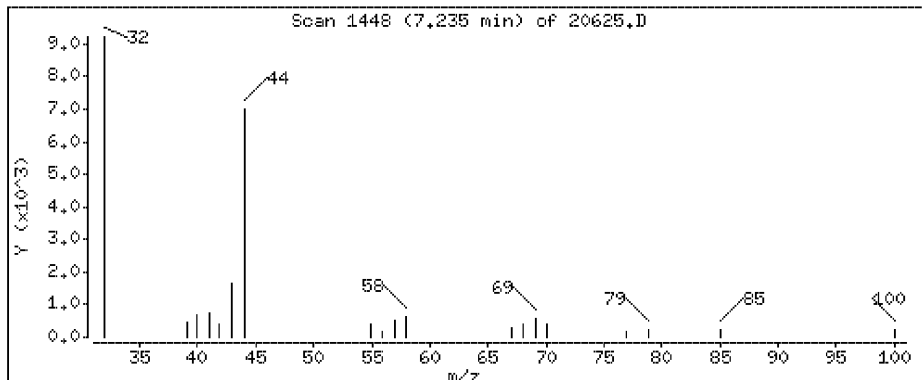
35 Benzene

Concentration: 1.54 ppbv









Data File: \\192.168.10.12\chem\10airD,1\072513,b\20625.D

Date : 26-JUL-2013 01:00

Client ID:

Instrument: 10airD.i

Sample Info:

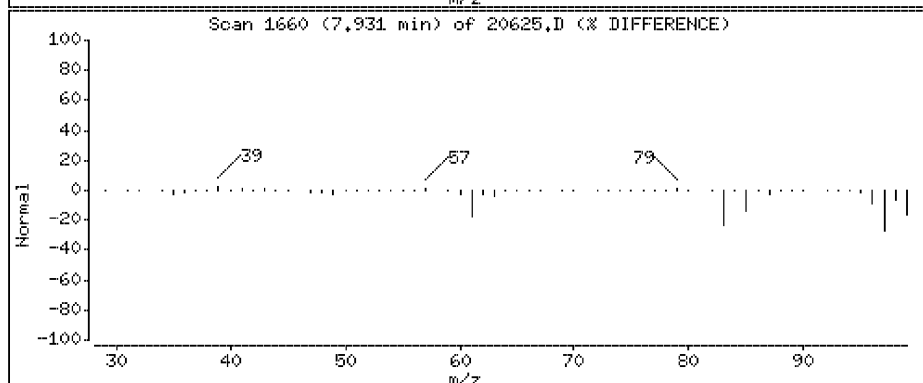
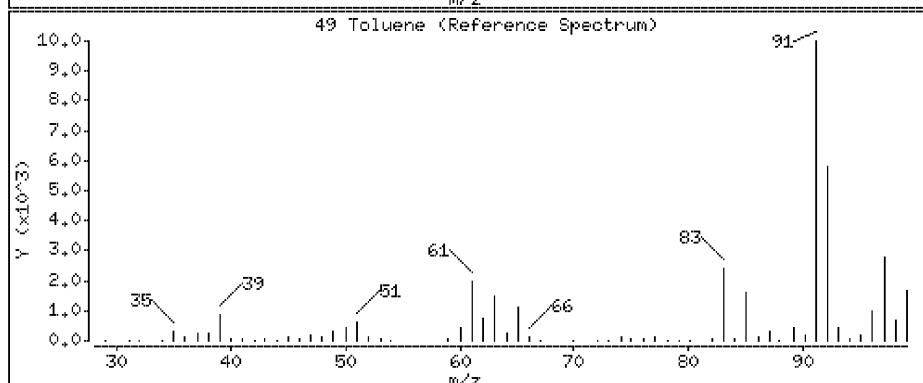
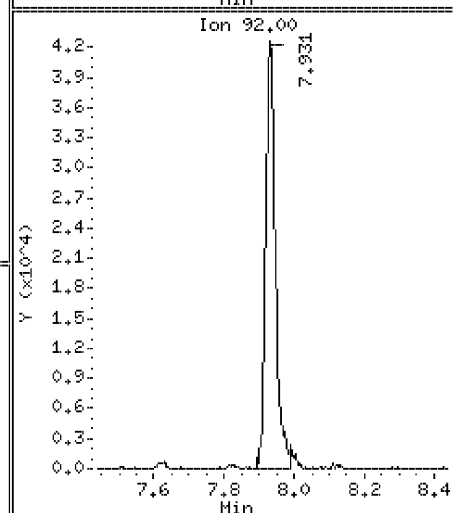
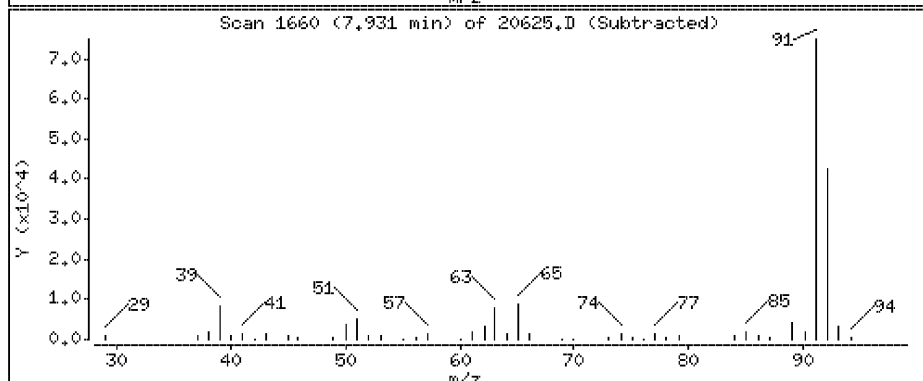
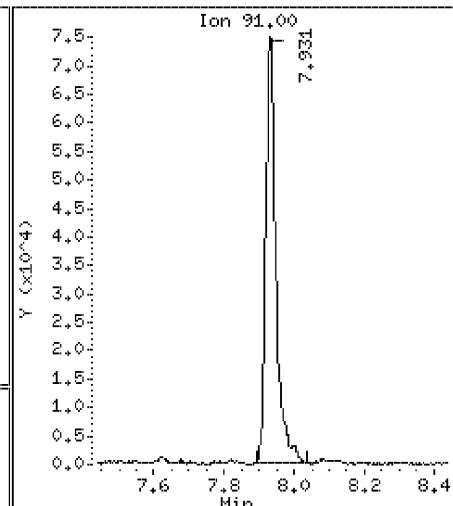
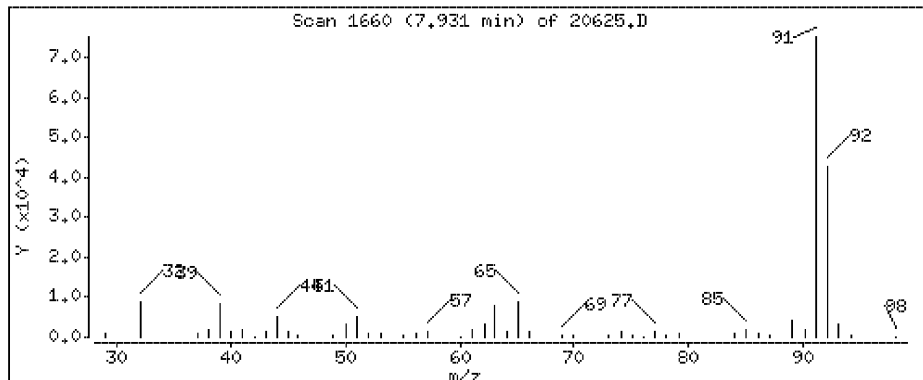
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

49 Toluene

Concentration: 3.08 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20625.D

Date : 26-JUL-2013 01:00

Client ID:

Instrument: 10airD.i

Sample Info:

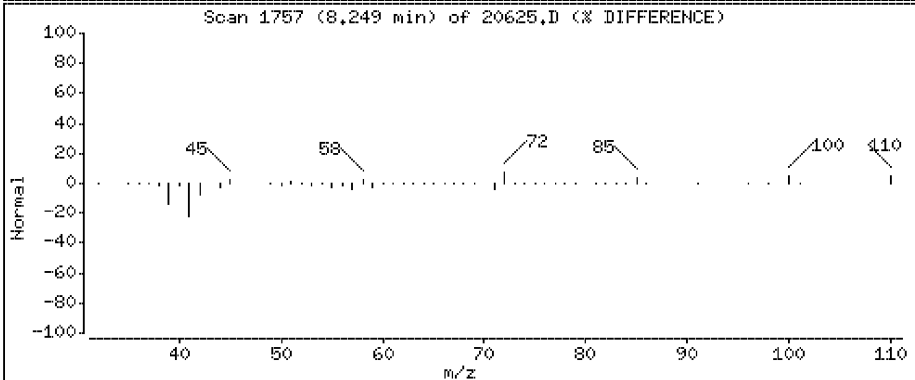
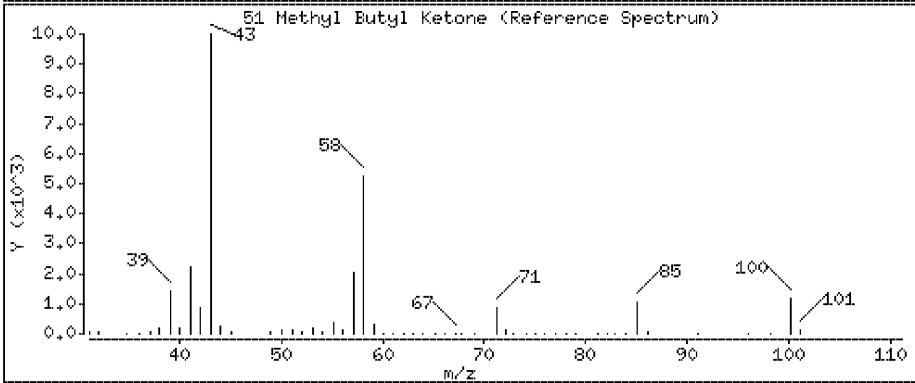
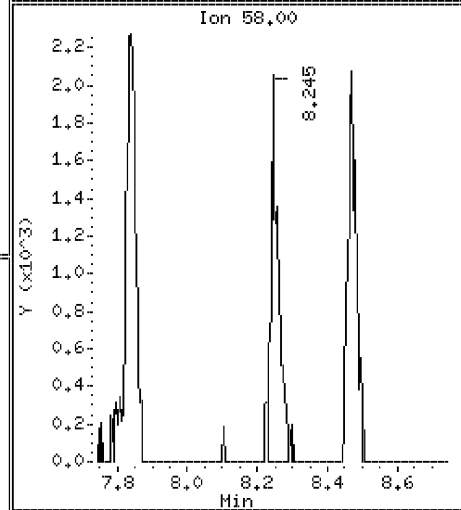
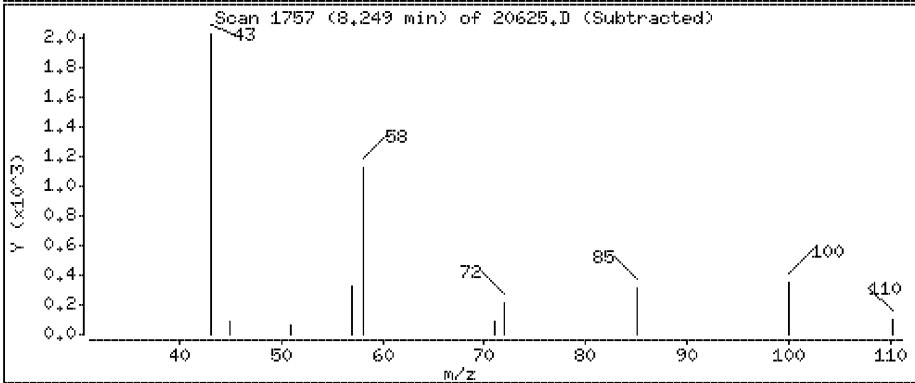
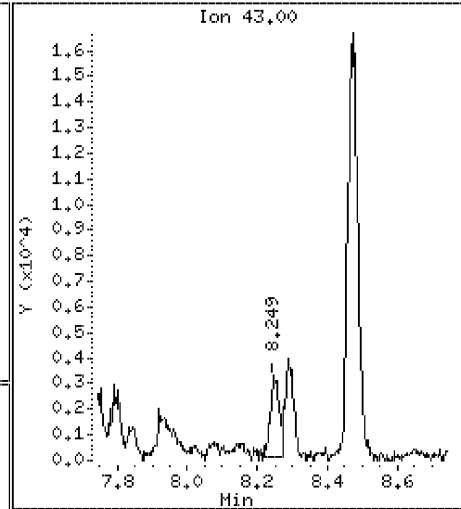
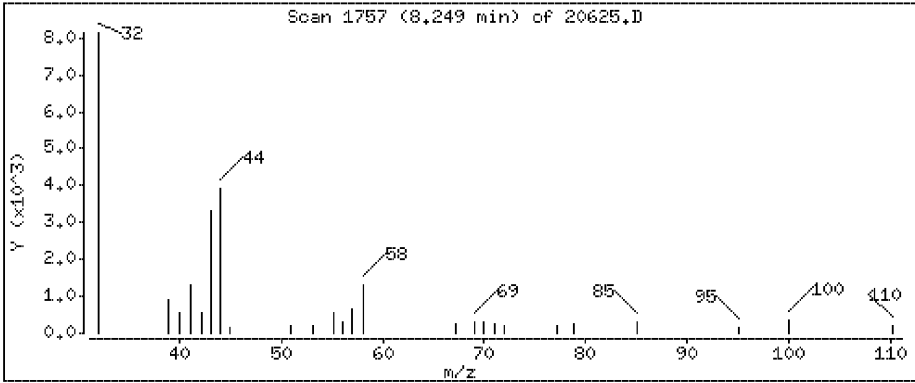
Operator: DR1

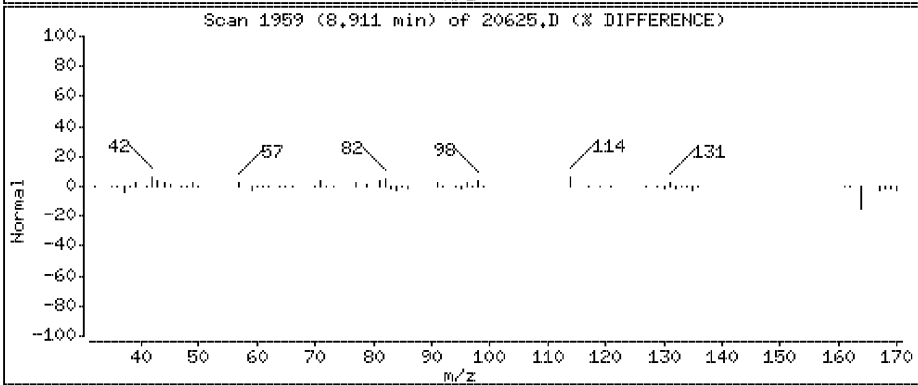
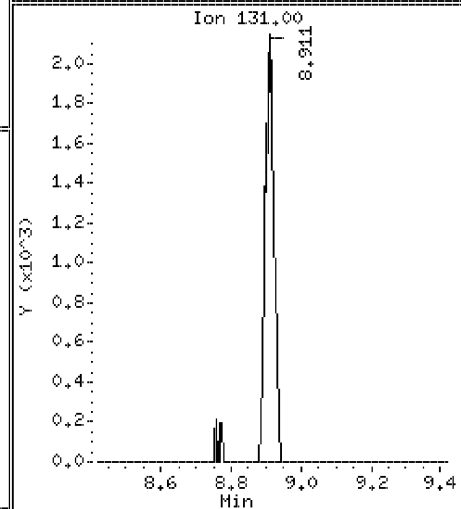
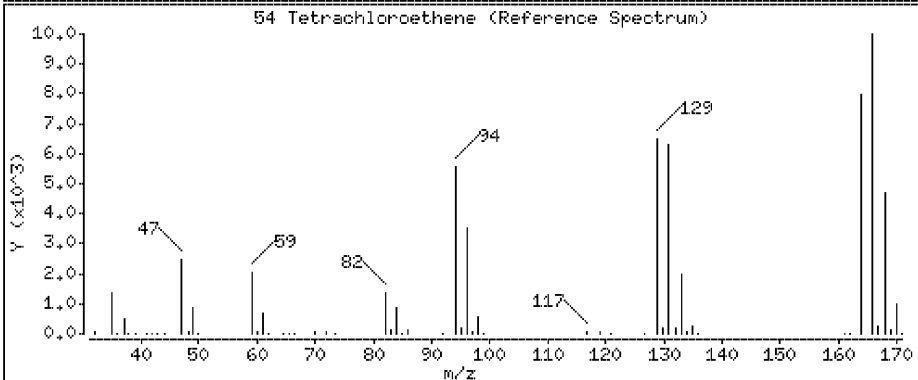
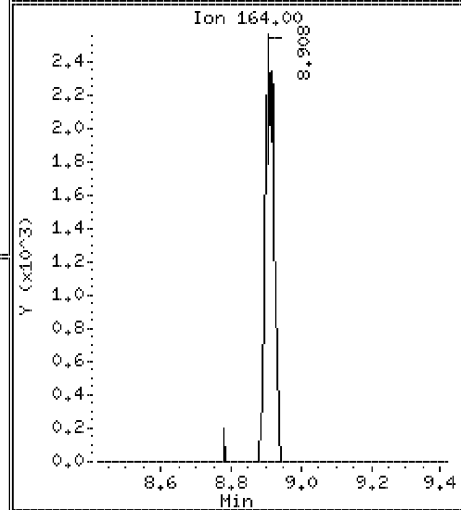
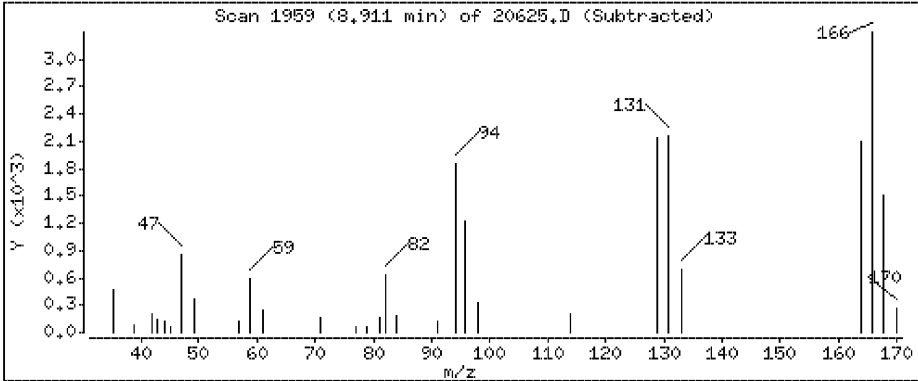
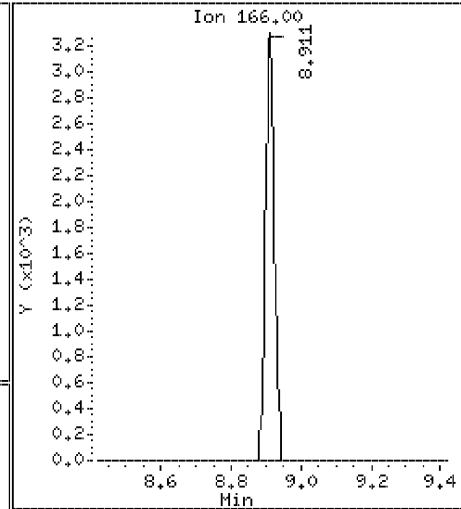
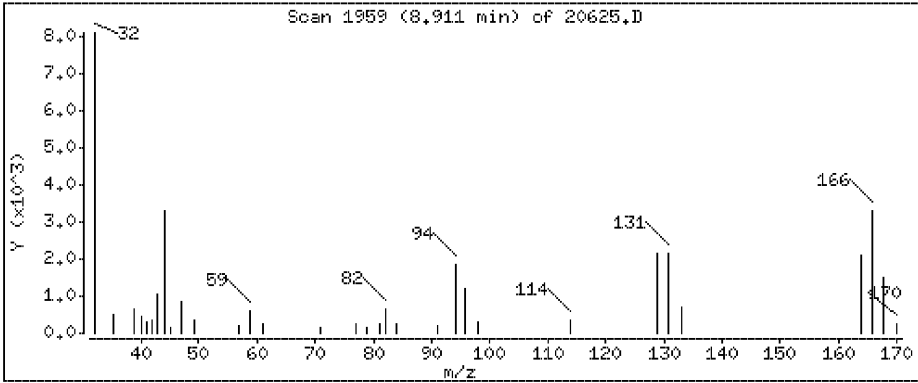
Column phase: J&W DB-5

Column diameter: 0.32

51 Methyl Butyl Ketone

Concentration: 0.717 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20625.D

Date : 26-JUL-2013 01:00

Client ID:

Instrument: 10airD.i

Sample Info:

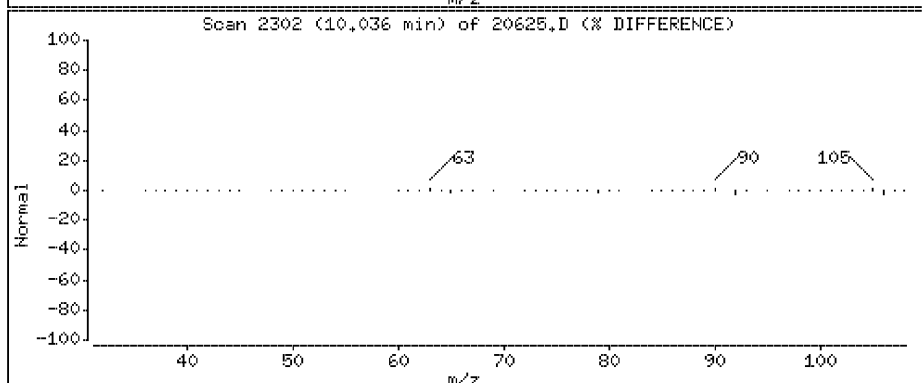
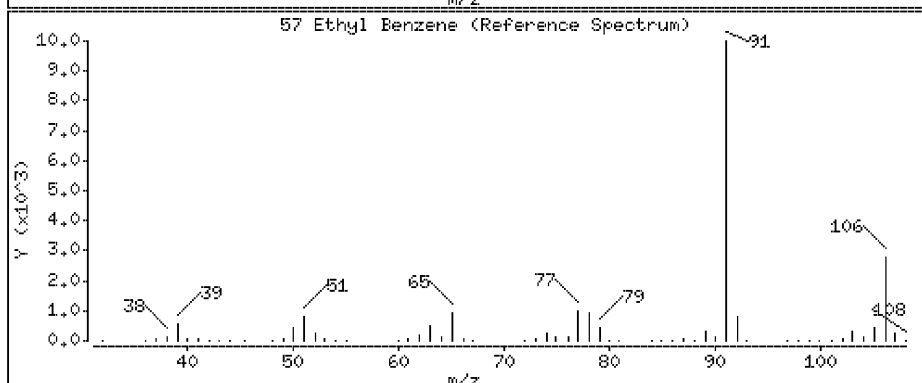
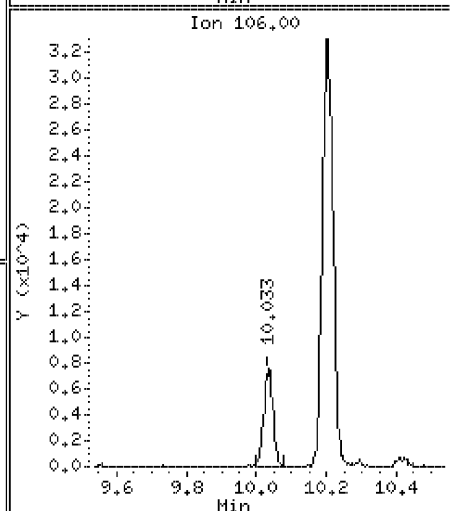
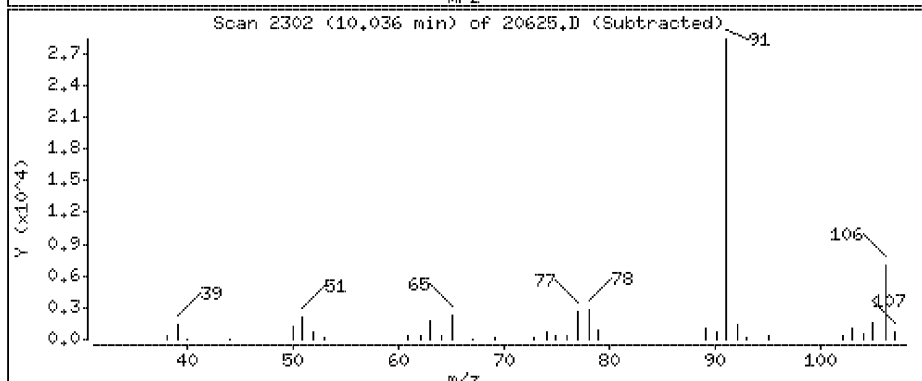
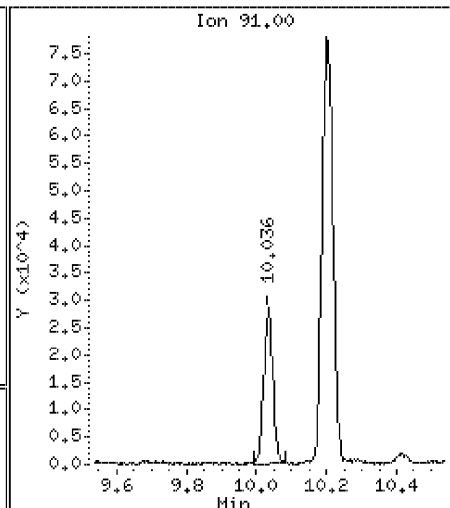
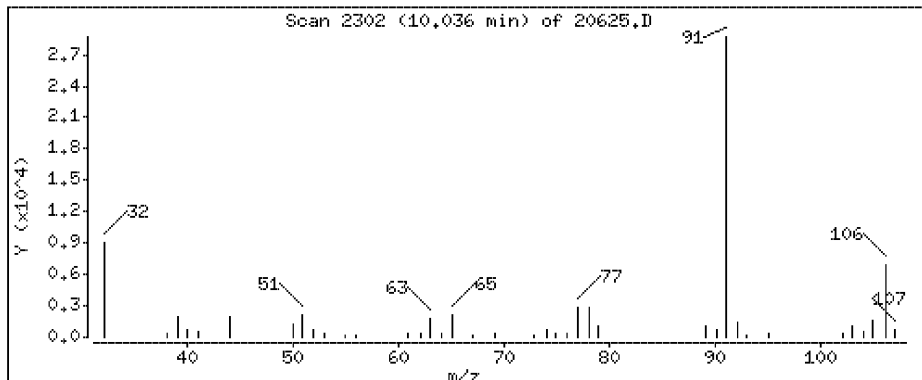
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

57 Ethyl Benzene

Concentration: 1.13 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20625.D

Date : 26-JUL-2013 01:00

Client ID:

Instrument: 10airD.i

Sample Info:

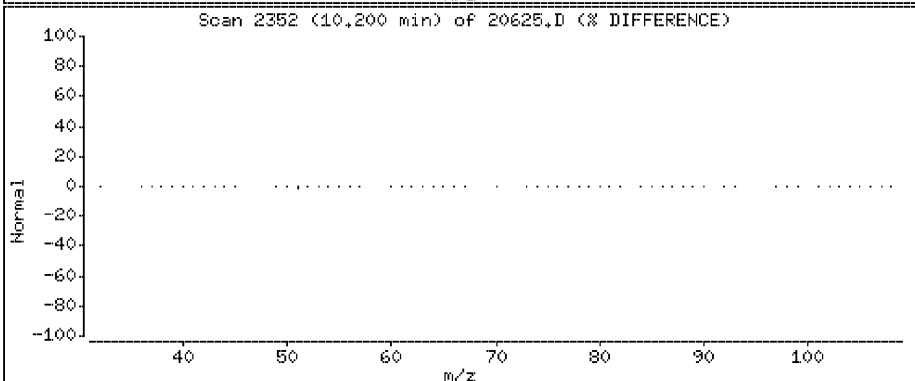
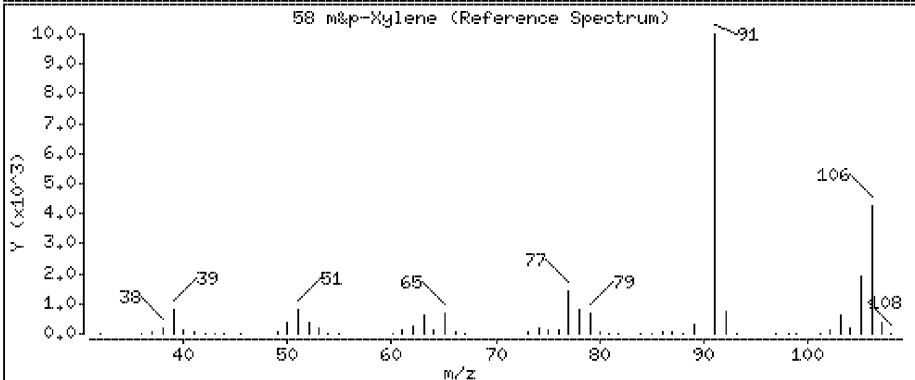
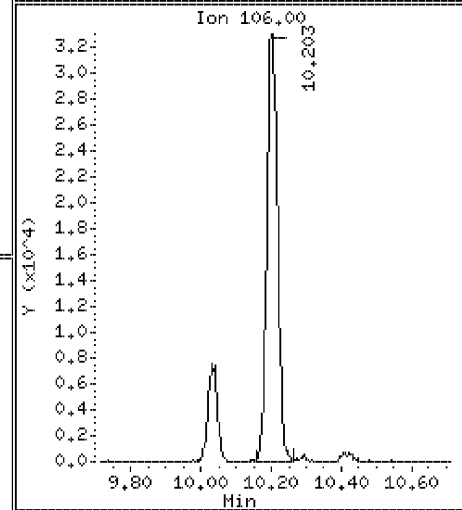
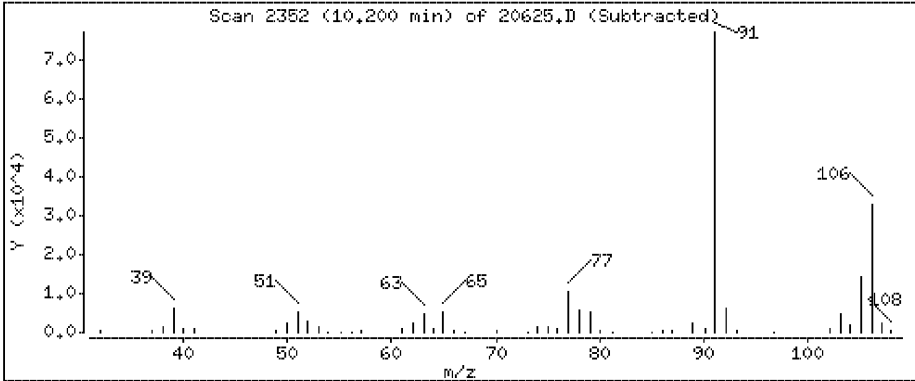
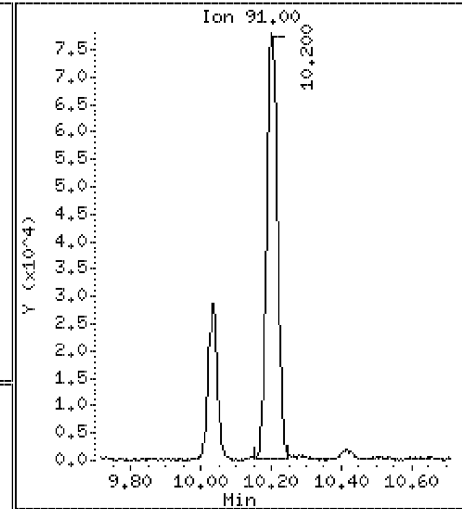
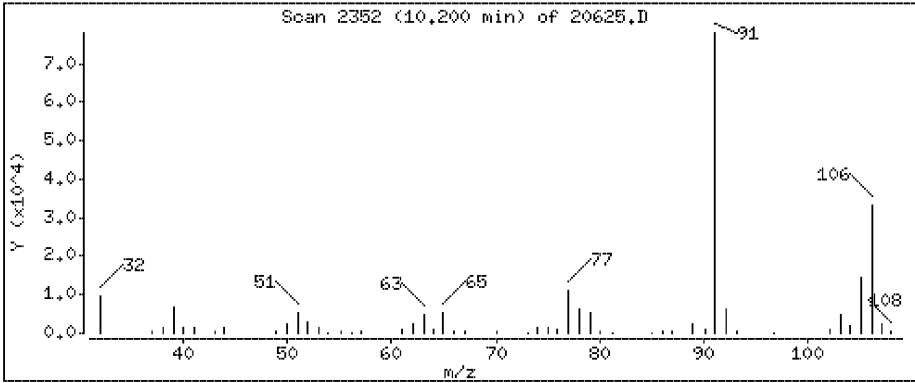
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

58 m&p-Xylene

Concentration: 3,19 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20625.D

Date : 26-JUL-2013 01:00

Client ID:

Instrument: 10airD.i

Sample Info:

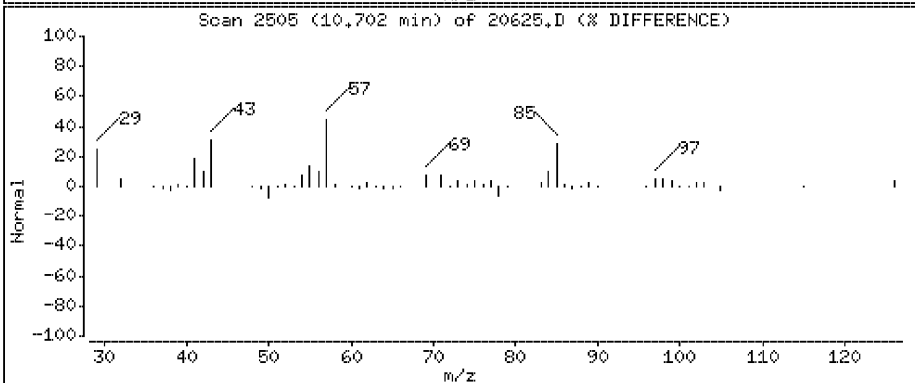
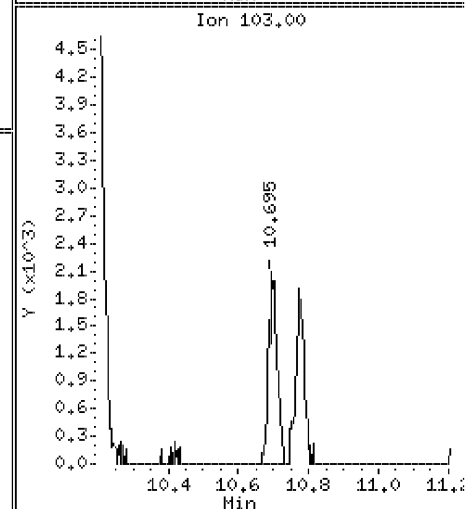
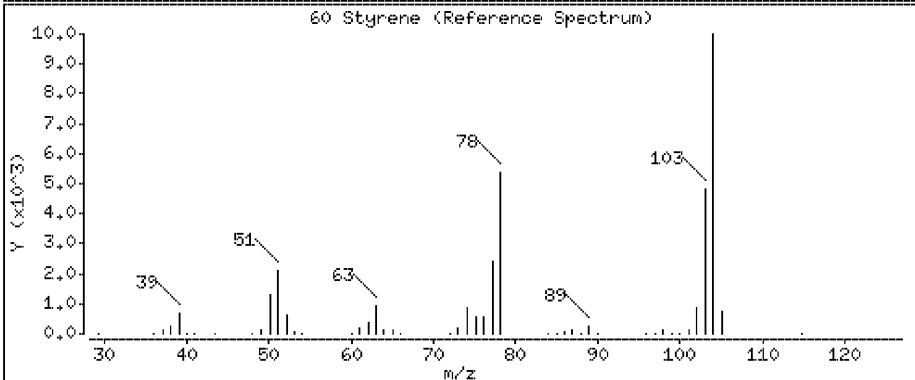
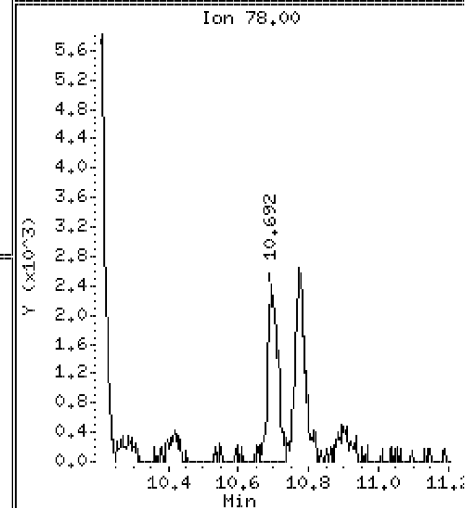
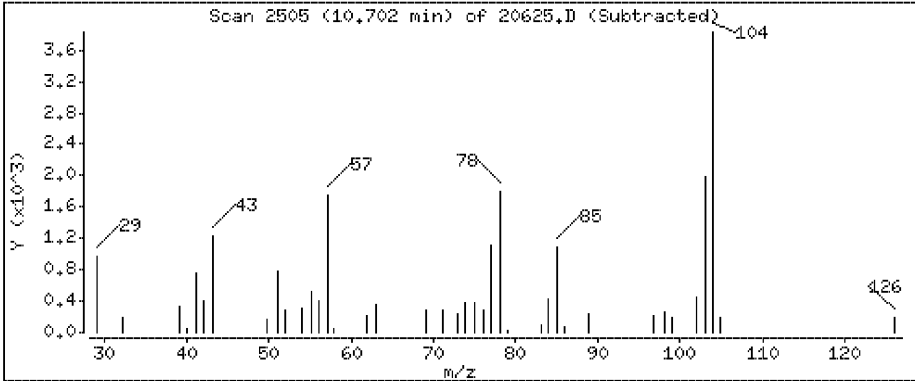
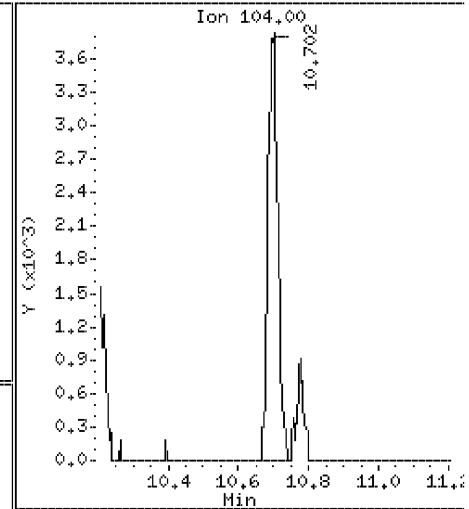
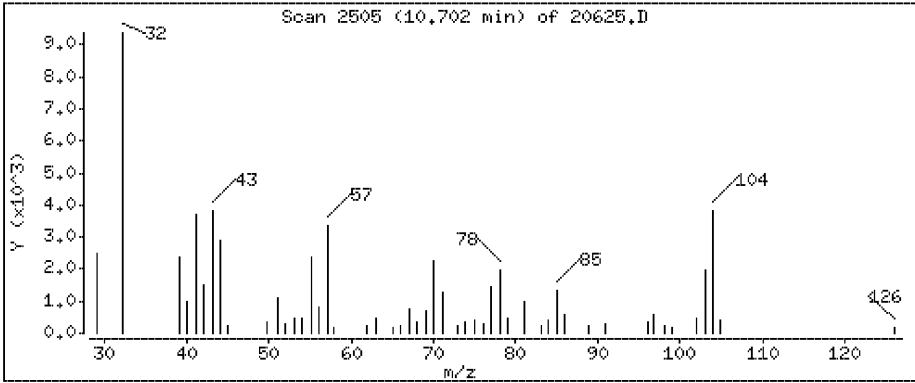
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

60 Styrene

Concentration: 0.864 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20625.D

Date : 26-JUL-2013 01:00

Client ID:

Instrument: 10airD.i

Sample Info:

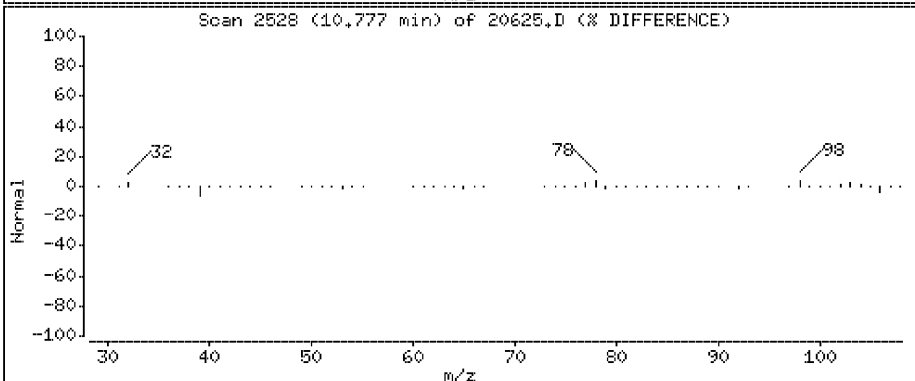
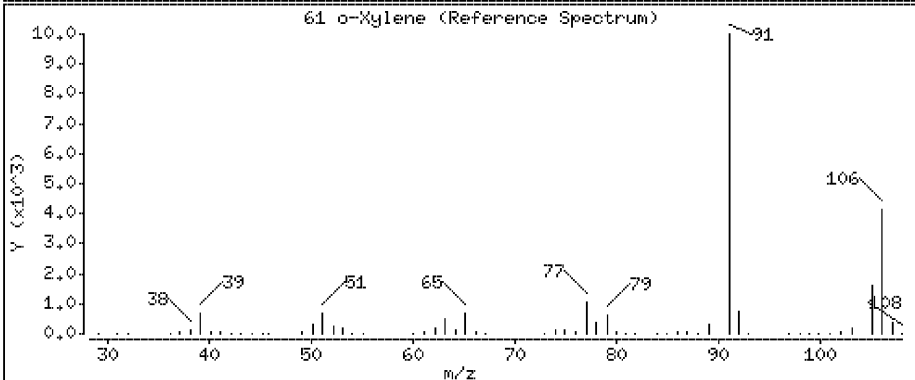
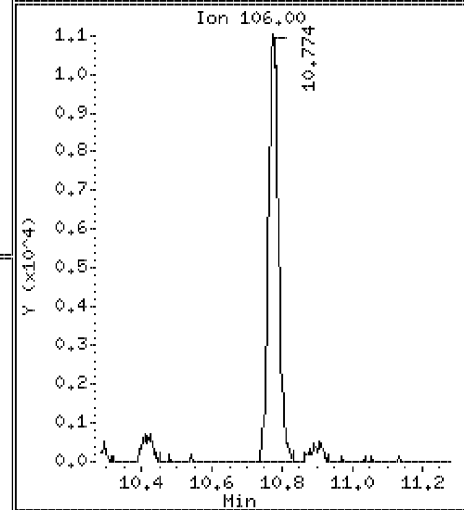
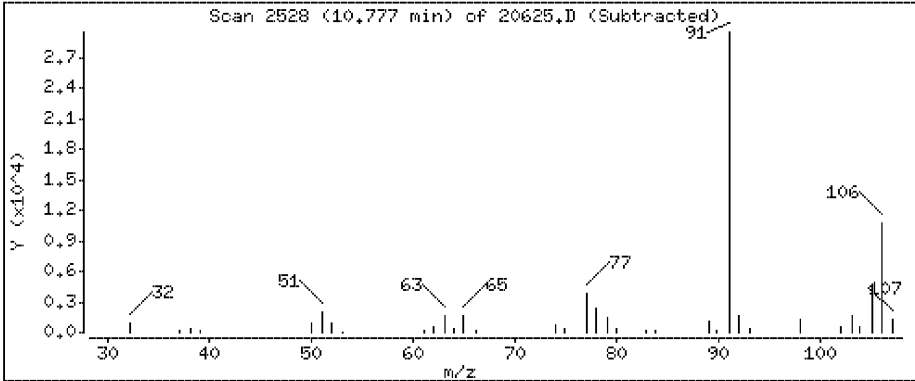
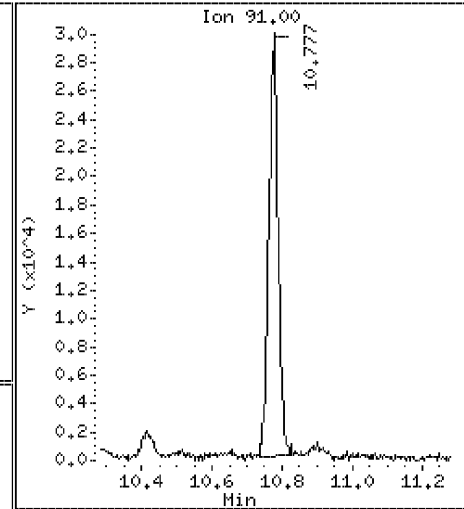
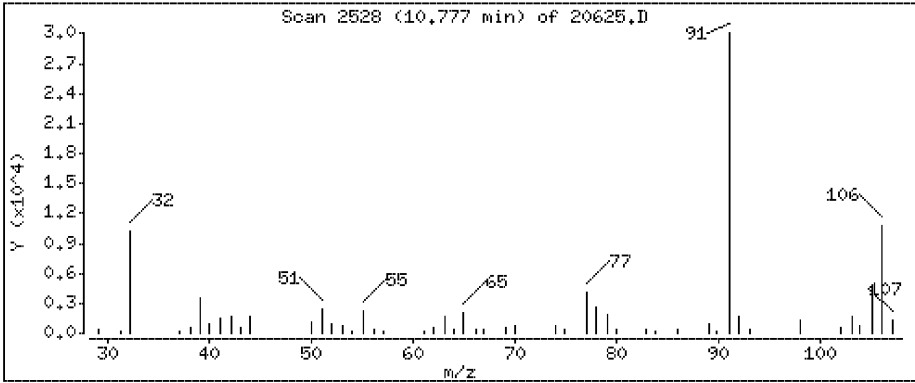
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

61 o-Xylene

Concentration: 1.16 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20625.D

Date : 26-JUL-2013 01:00

Client ID:

Instrument: 10airD.i

Sample Info:

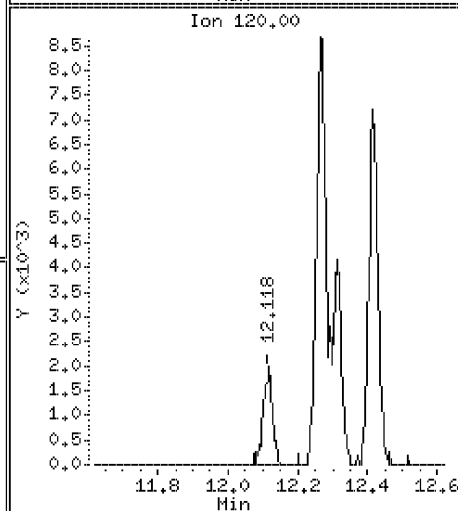
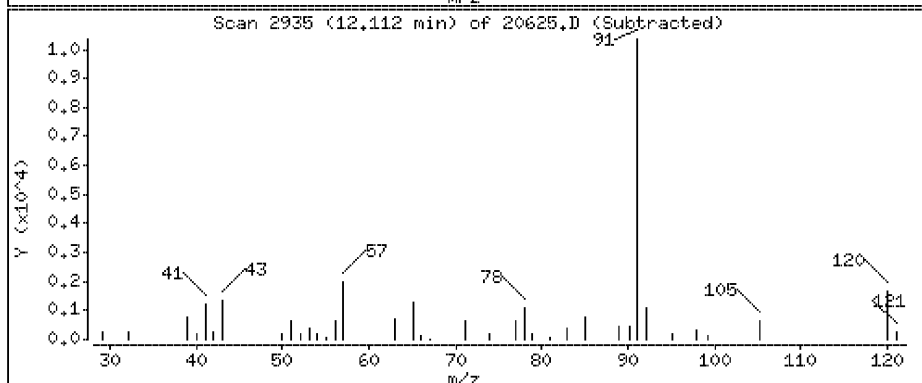
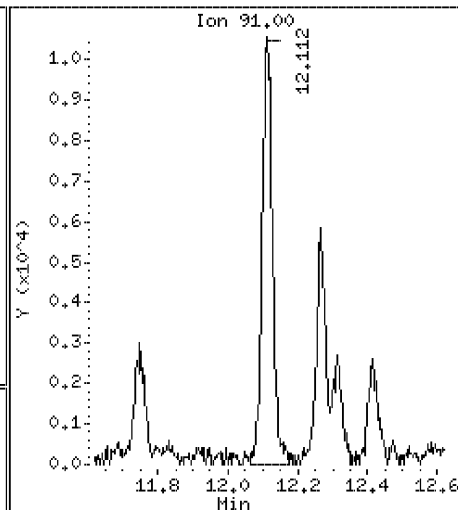
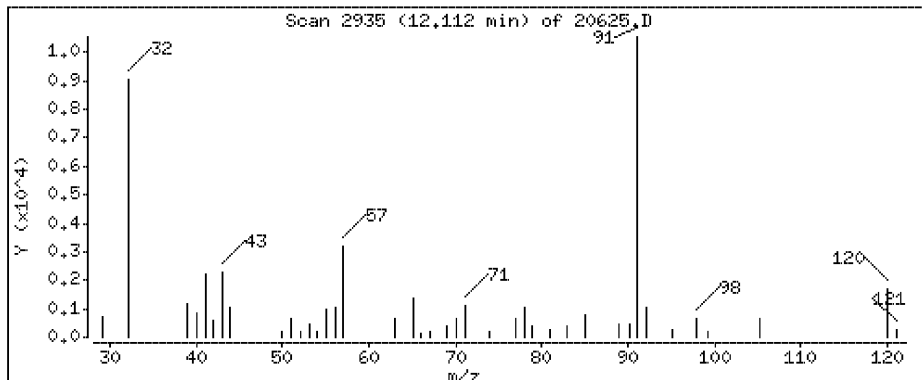
Operator: DR1

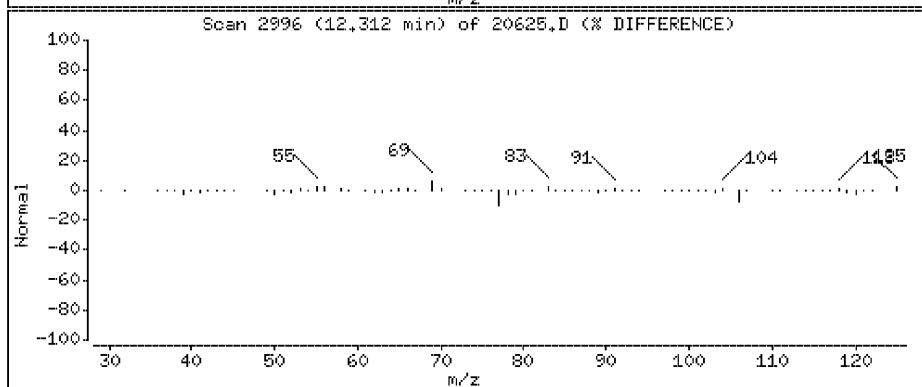
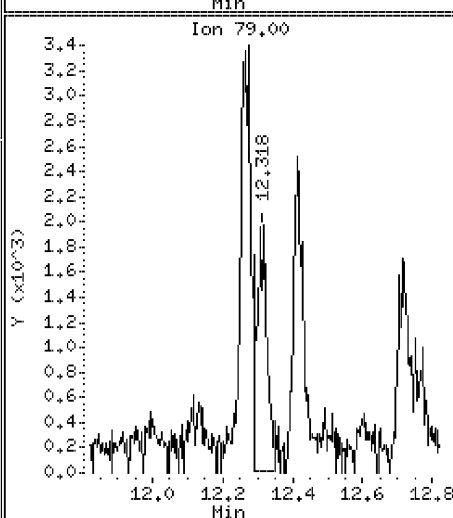
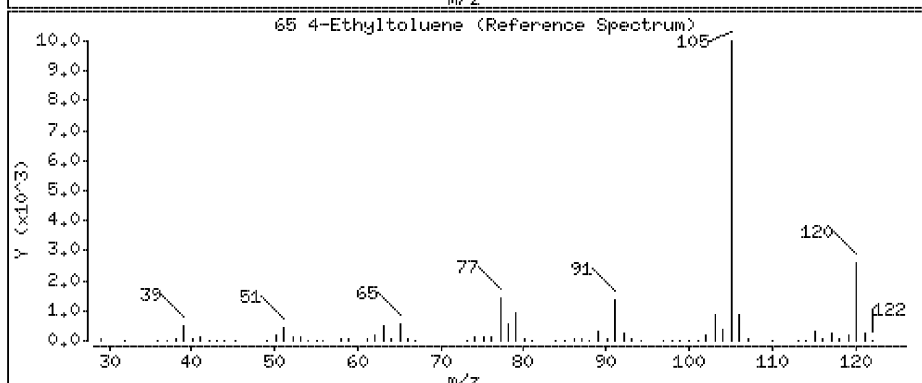
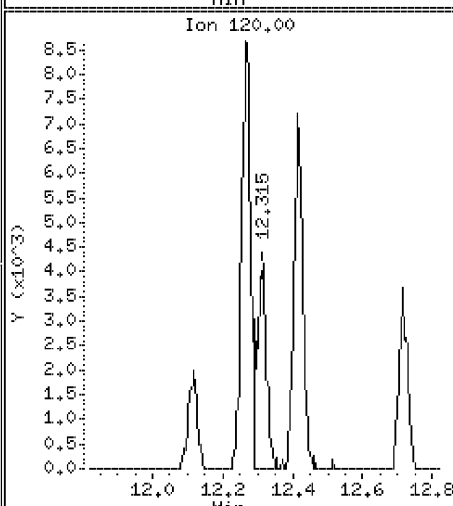
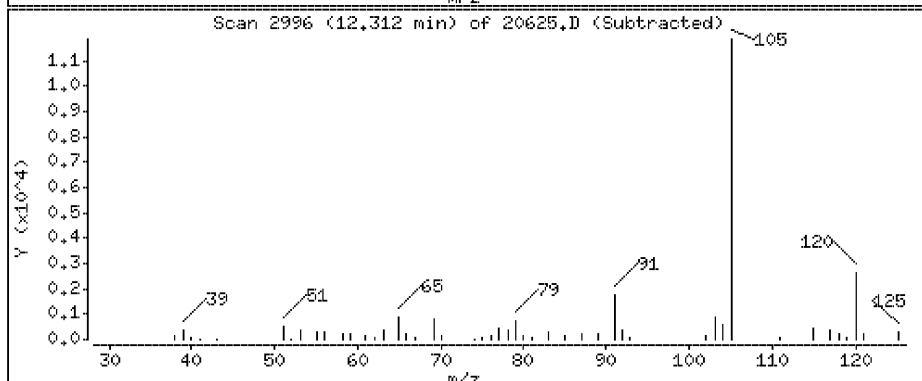
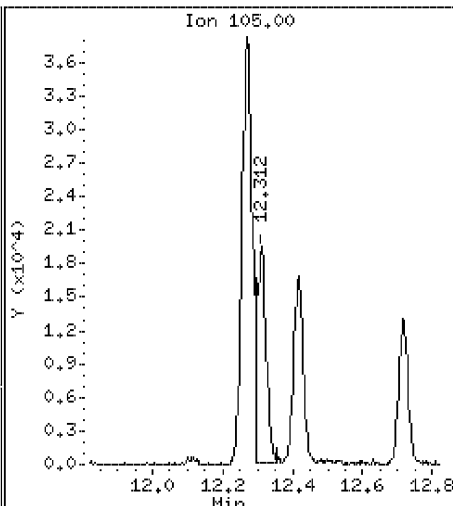
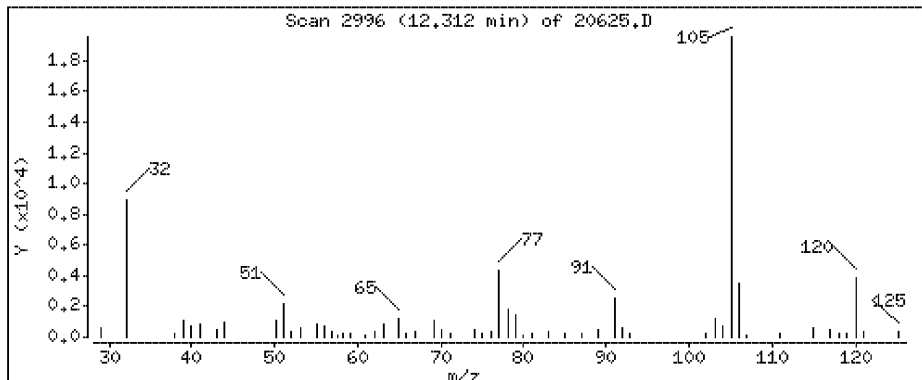
Column phase: J&W DB-5

Column diameter: 0.32

64 N-Propylbenzene

Concentration: 0.664 ppbv





Data File: \\192.168.10.12\chem\10airD.i\072513,b\20625.D

Date : 26-JUL-2013 01:00

Client ID:

Instrument: 10airD.i

Sample Info:

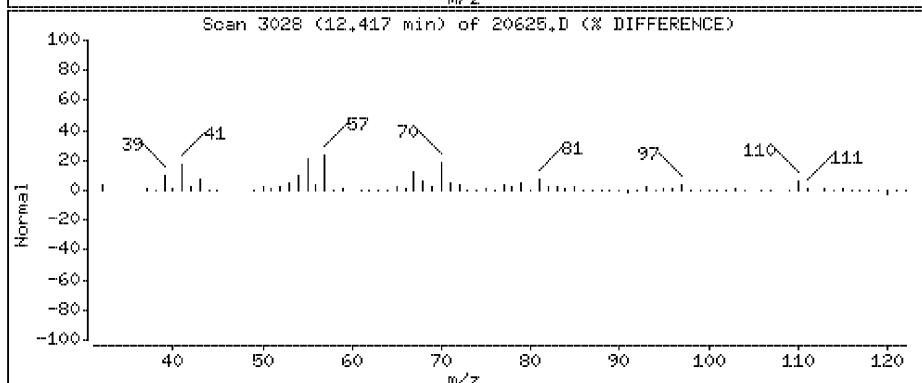
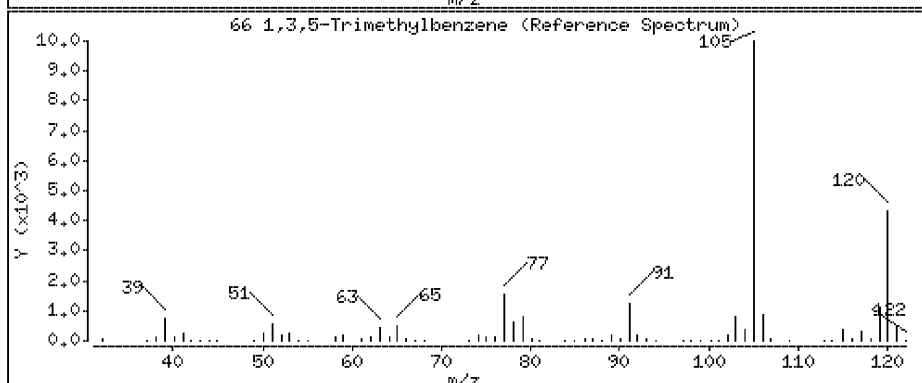
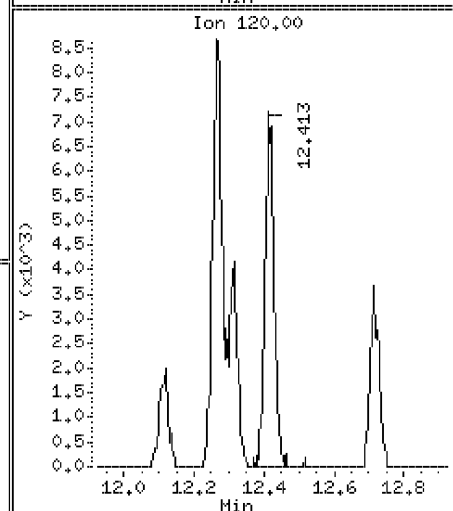
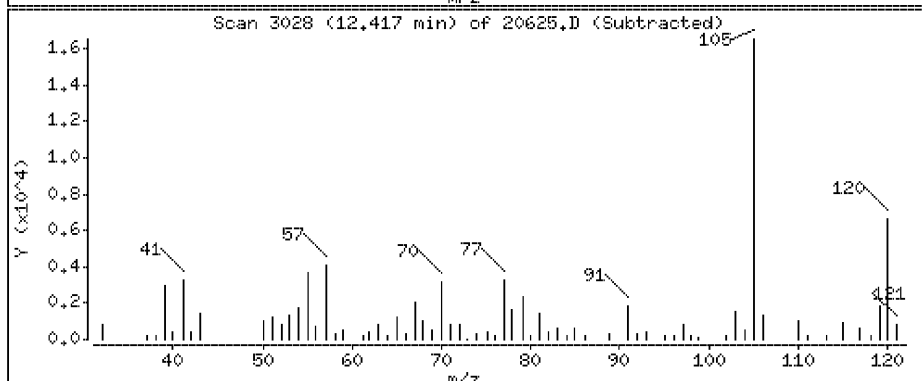
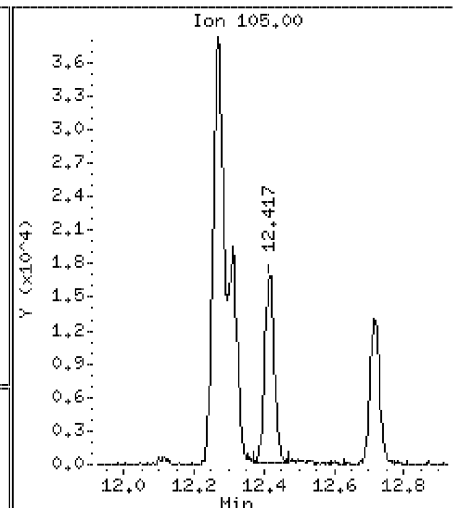
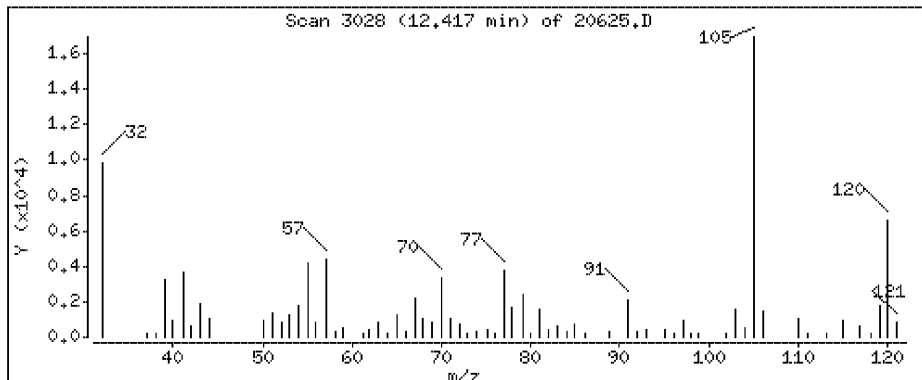
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

66 1,3,5-Trimethylbenzene

Concentration: 0.929 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20625.D

Date : 26-JUL-2013 01:00

Client ID:

Instrument: 10airD.i

Sample Info:

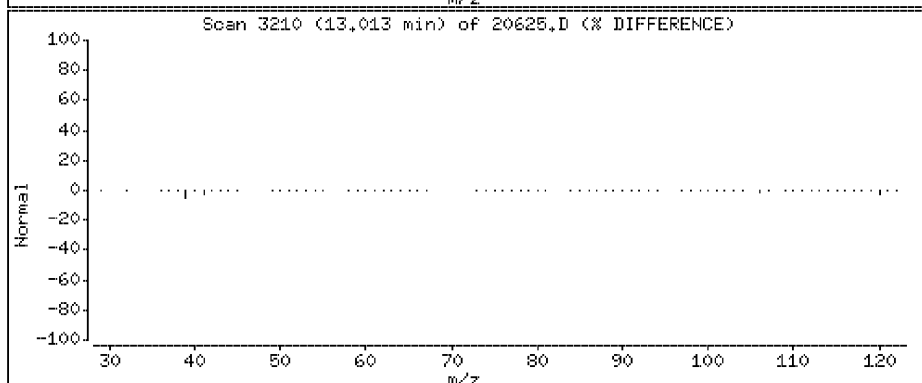
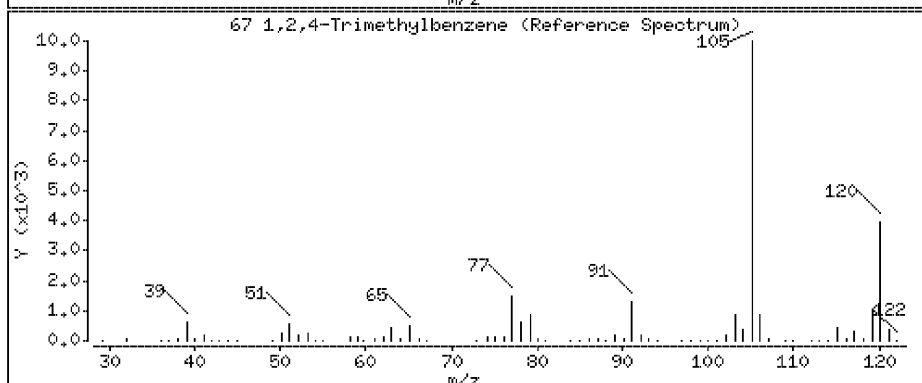
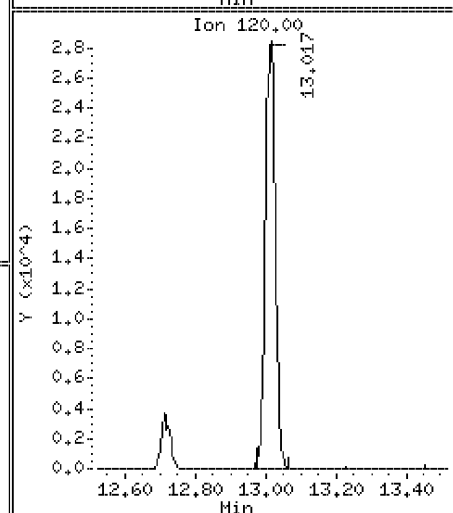
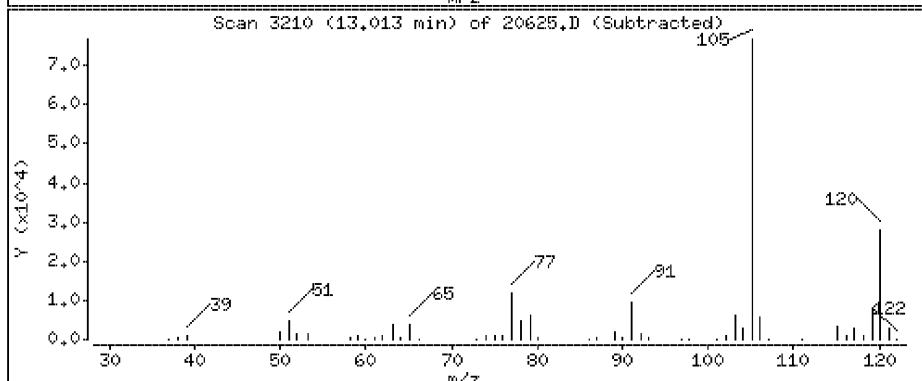
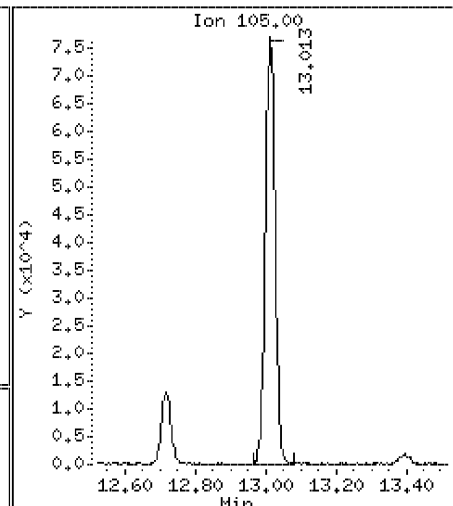
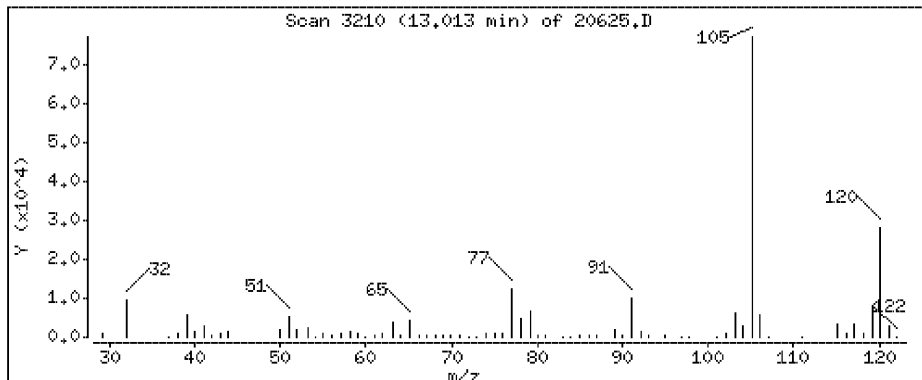
Operator: DR1

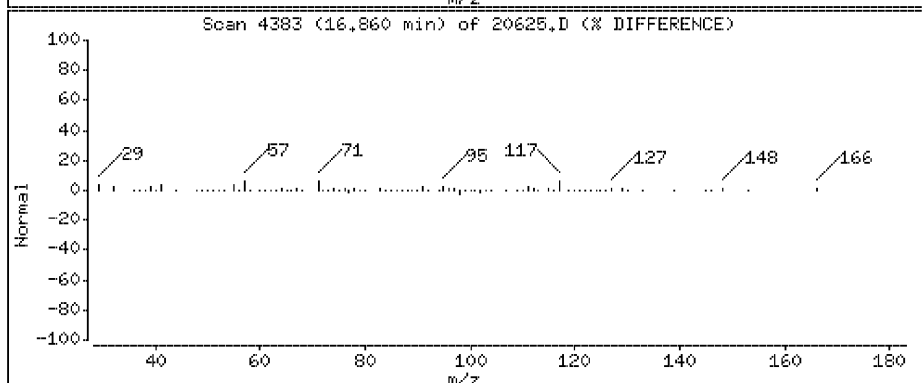
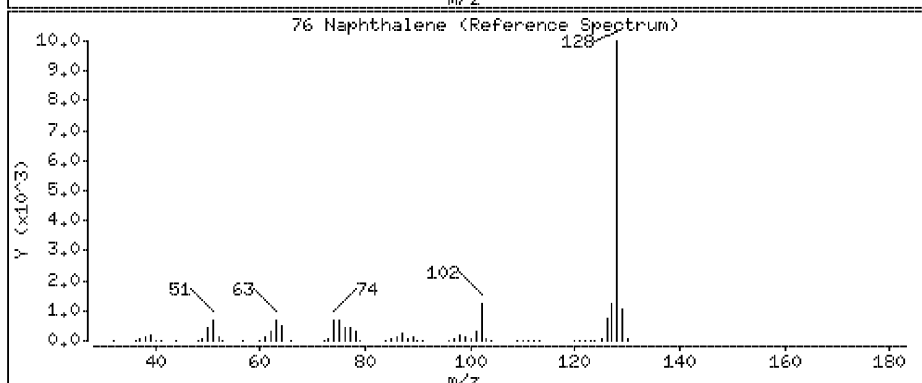
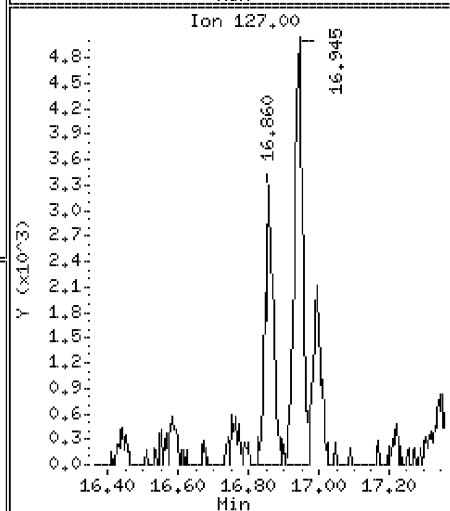
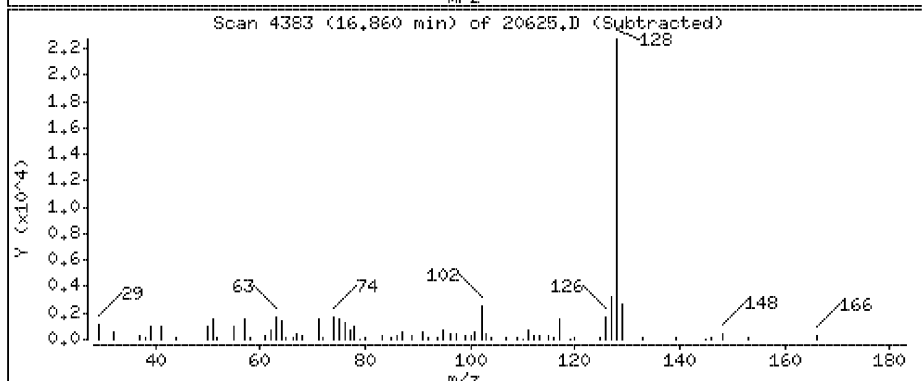
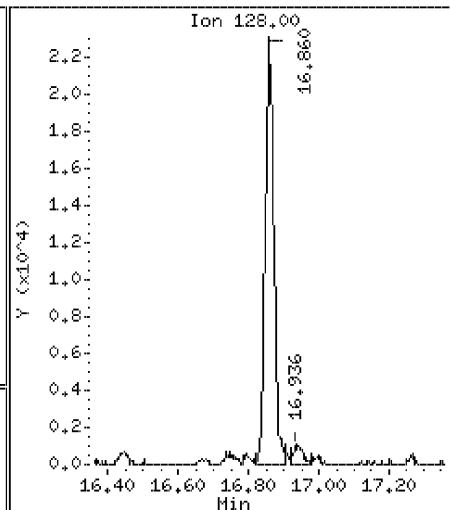
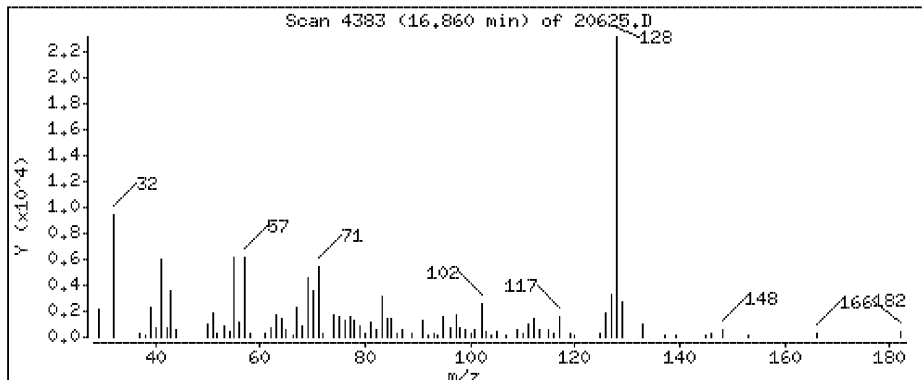
Column phase: J&W DB-5

Column diameter: 0.32

67 1,2,4-Trimethylbenzene

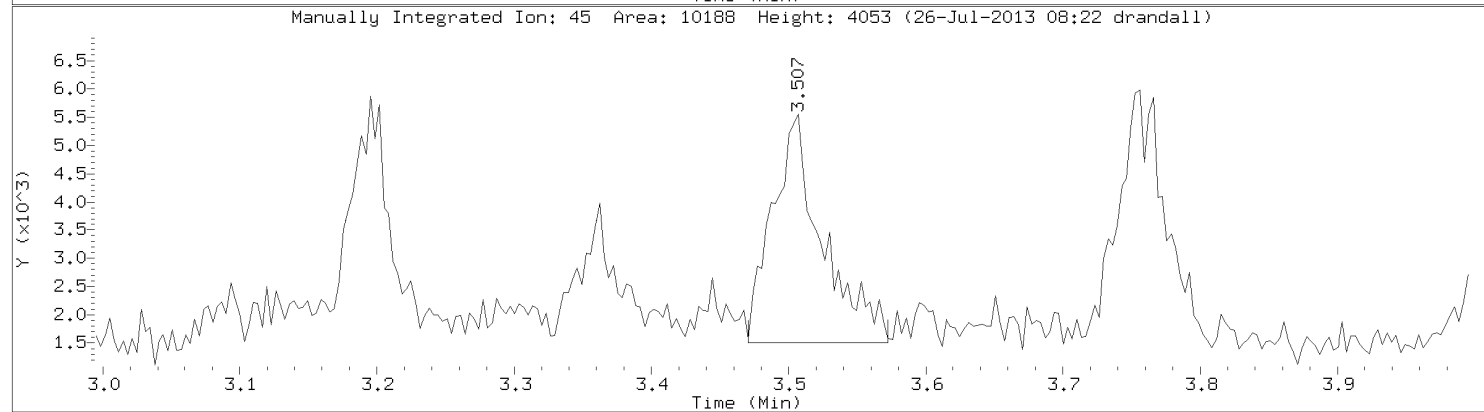
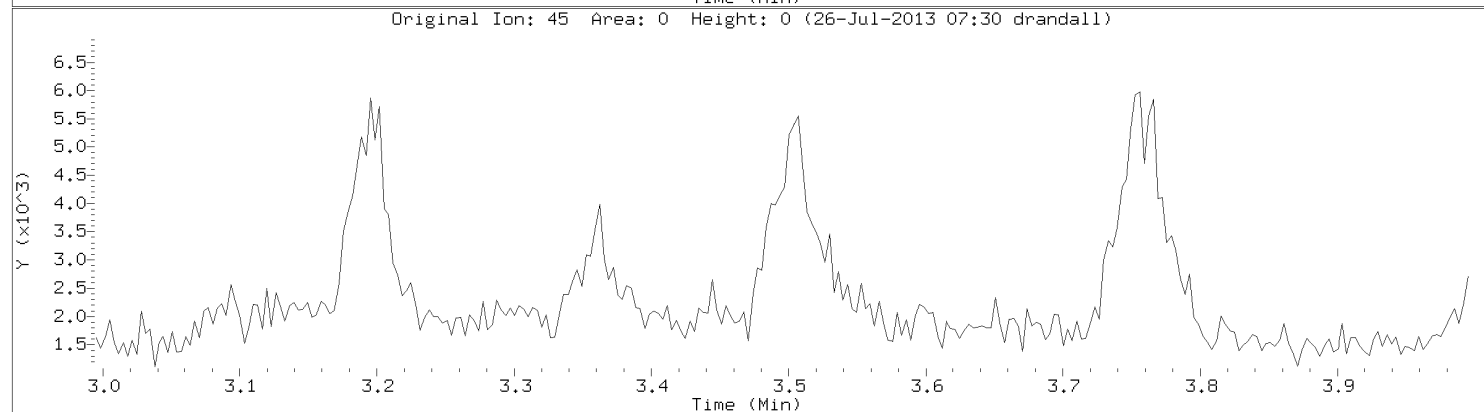
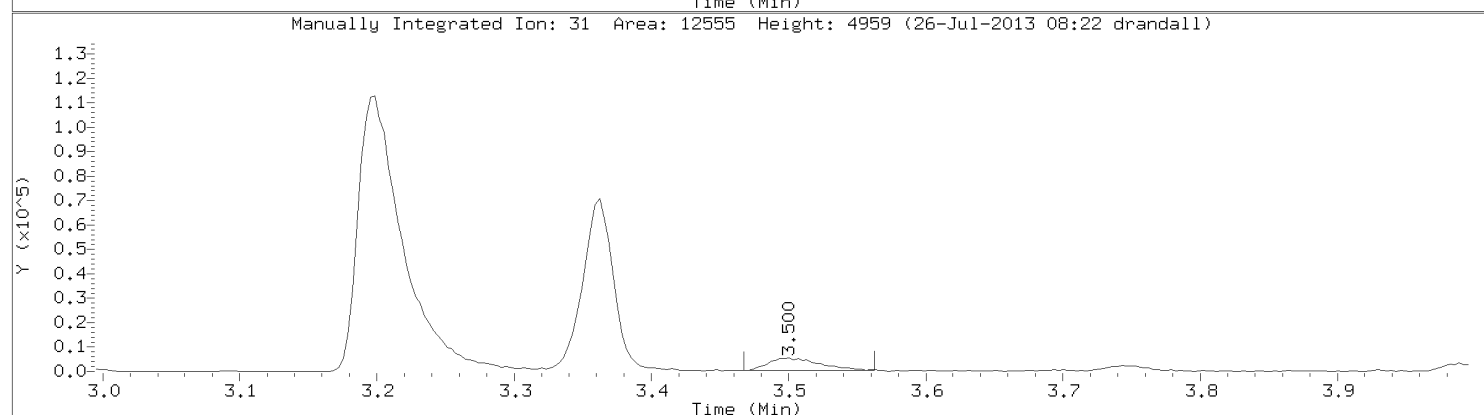
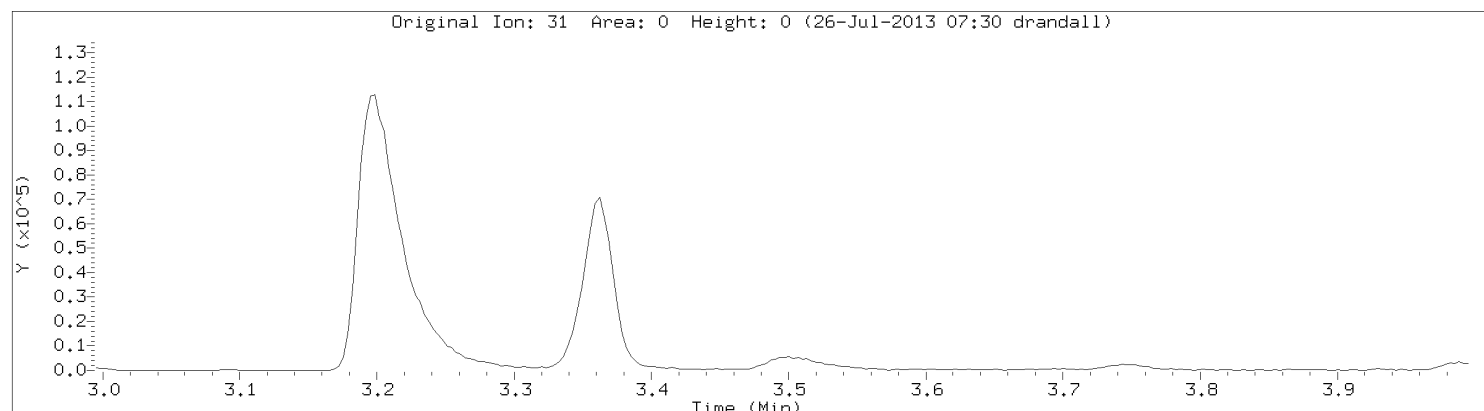
Concentration: 2.94 ppbv





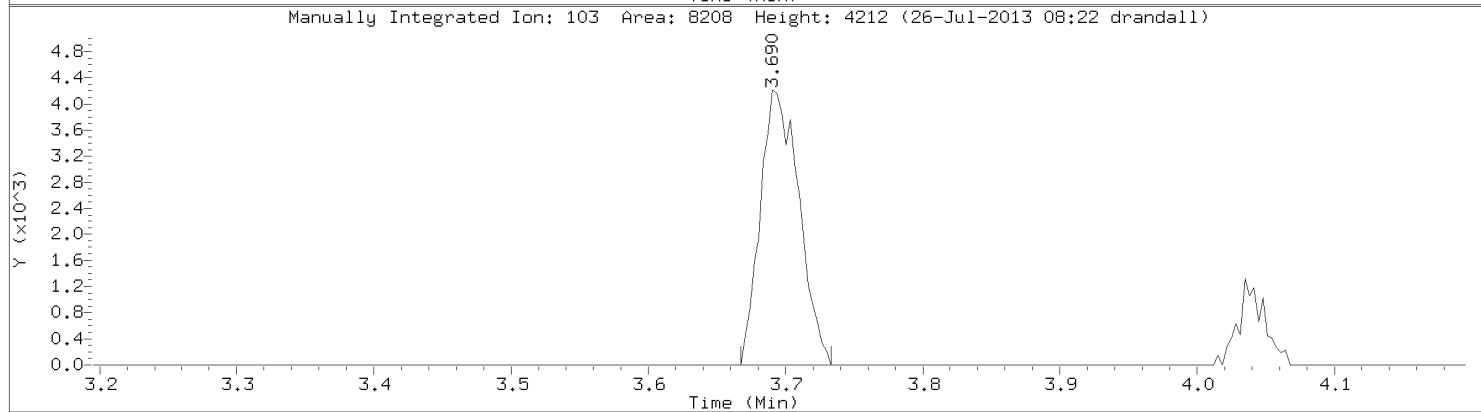
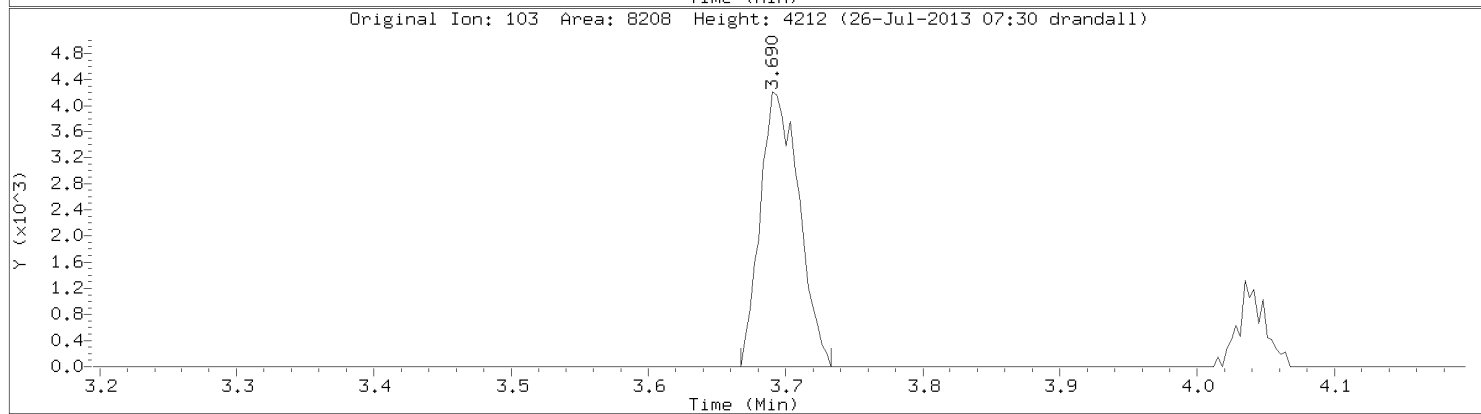
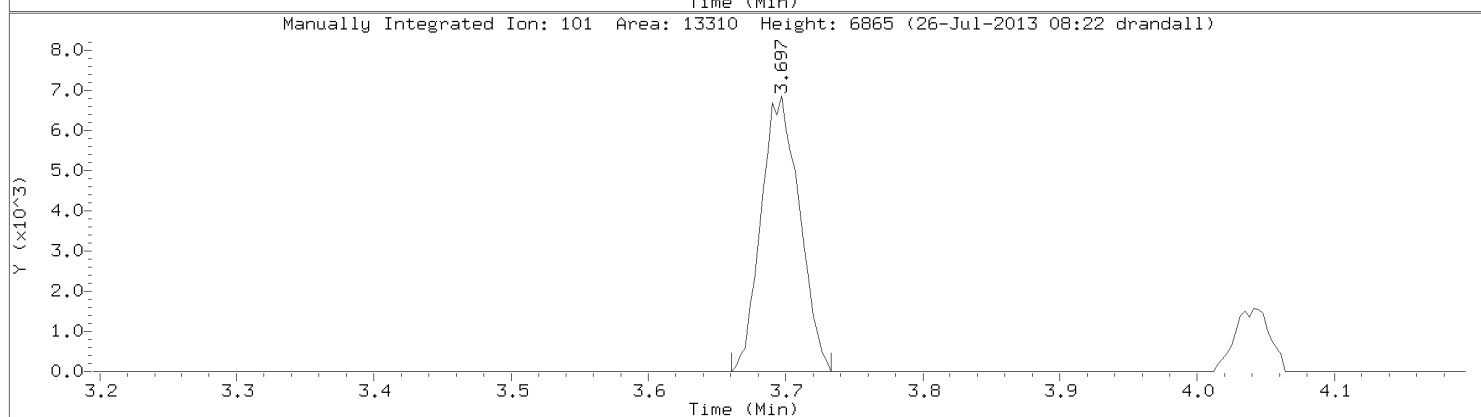
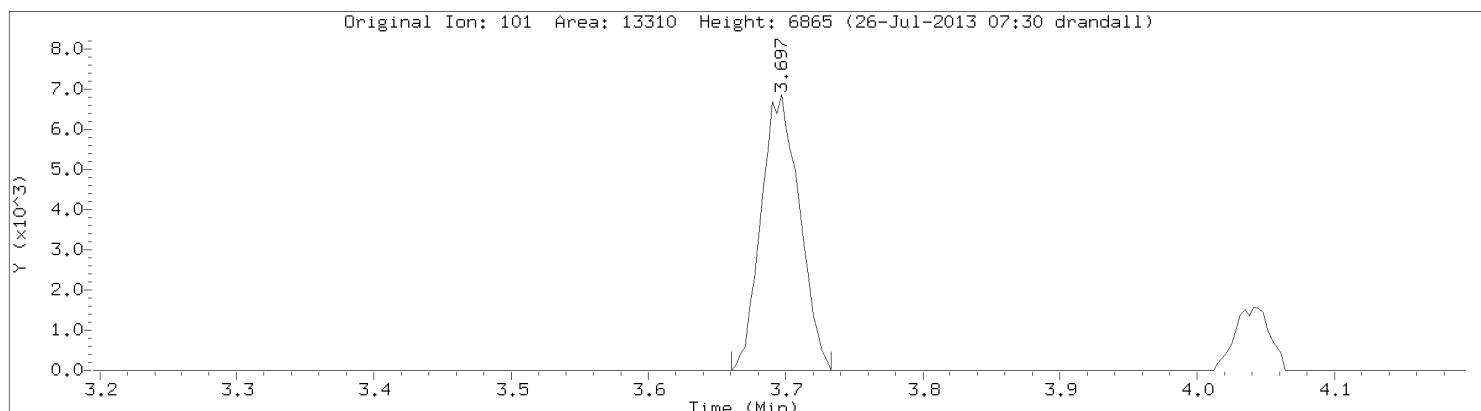
Data File: \\192.168.10.12\chem\10airD.i\072513.b\20625.d
Injection Date: 26-JUL-2013 01:00
Instrument: 10airD.i
Lab Sample ID: 10236207010

Compound: Ethanol
CAS Number: 64-17-5

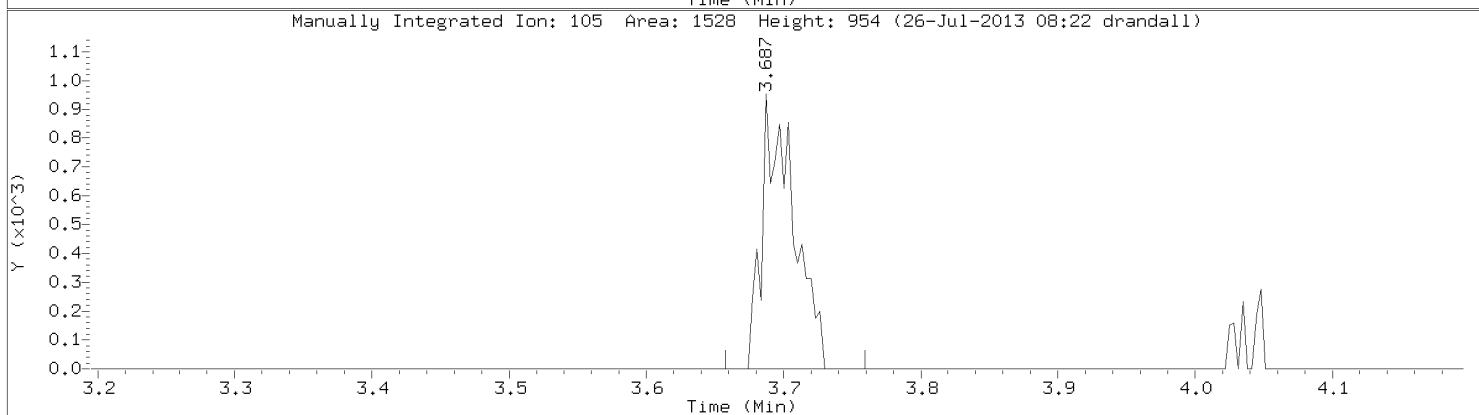
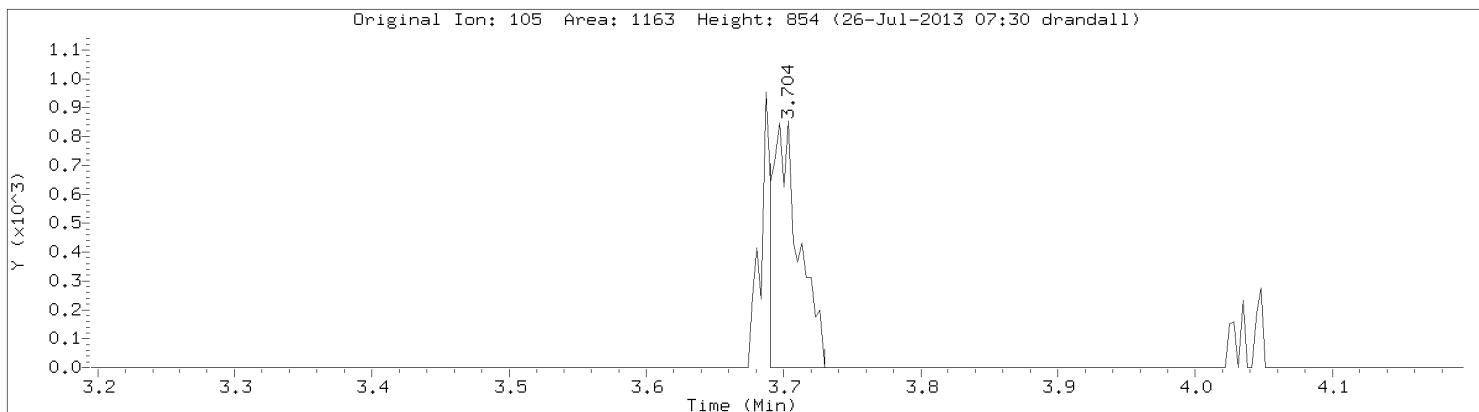


Data File: \\192.168.10.12\chem\10airD.i\072513.b\20625.d
Injection Date: 26-JUL-2013 01:00
Instrument: 10airD.i
Lab Sample ID: 10236207010

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

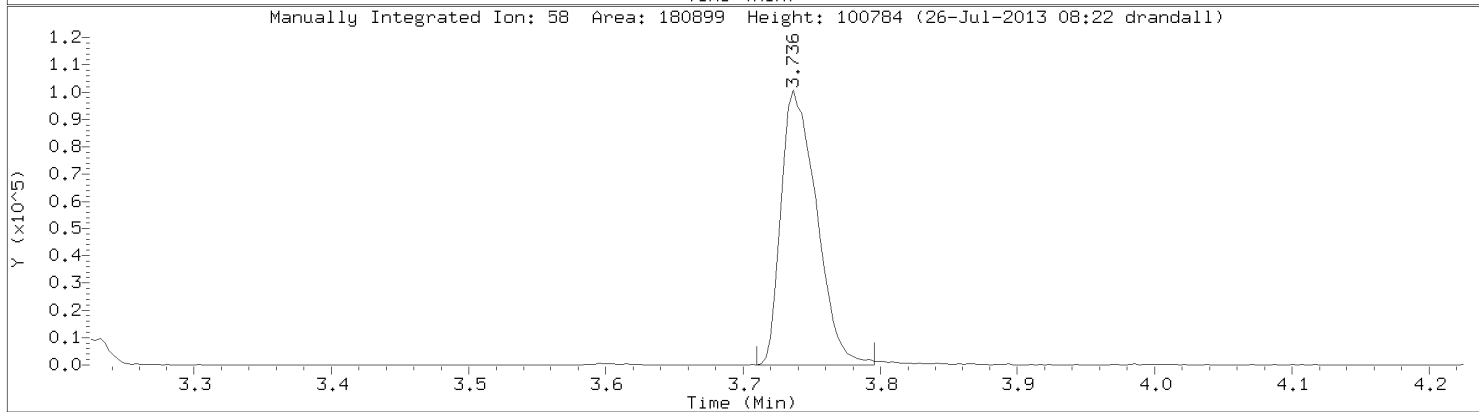
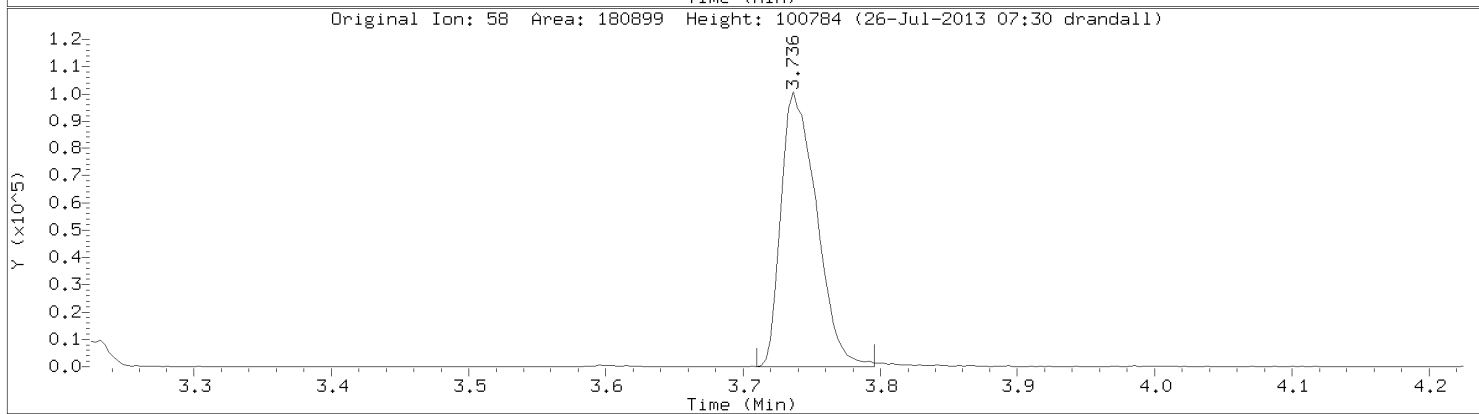
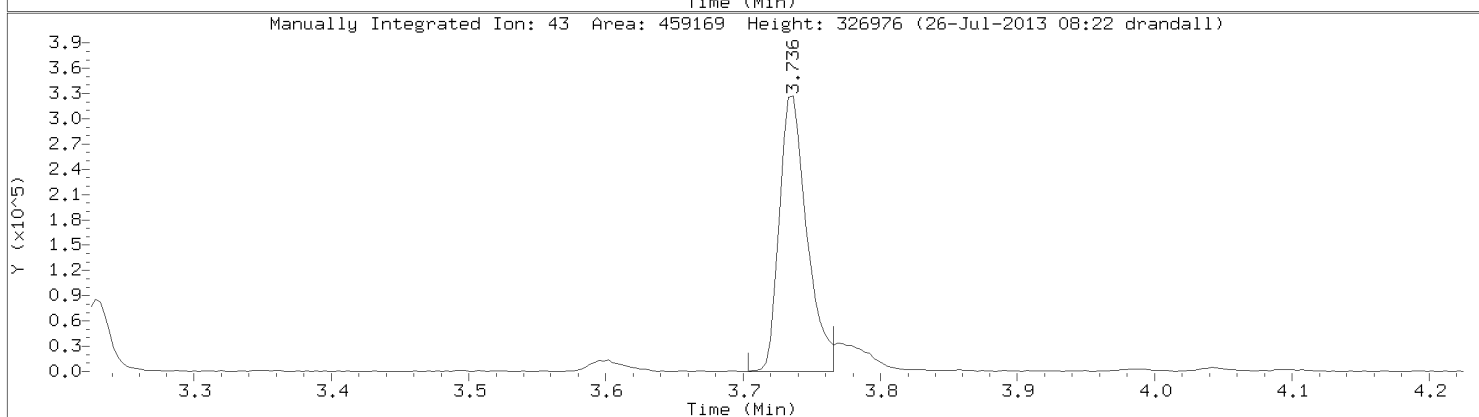
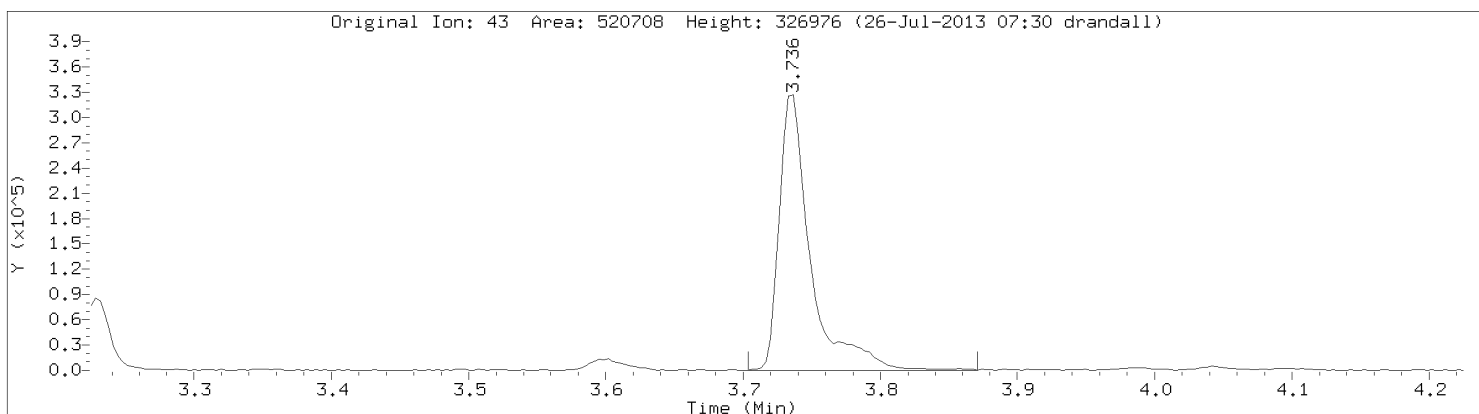


Data File: \\192.168.10.12\chem\10airD.i\072513.b\20625.d
Injection Date: 26-JUL-2013 01:00
Instrument: 10airD.i
Lab Sample ID: 10236207010



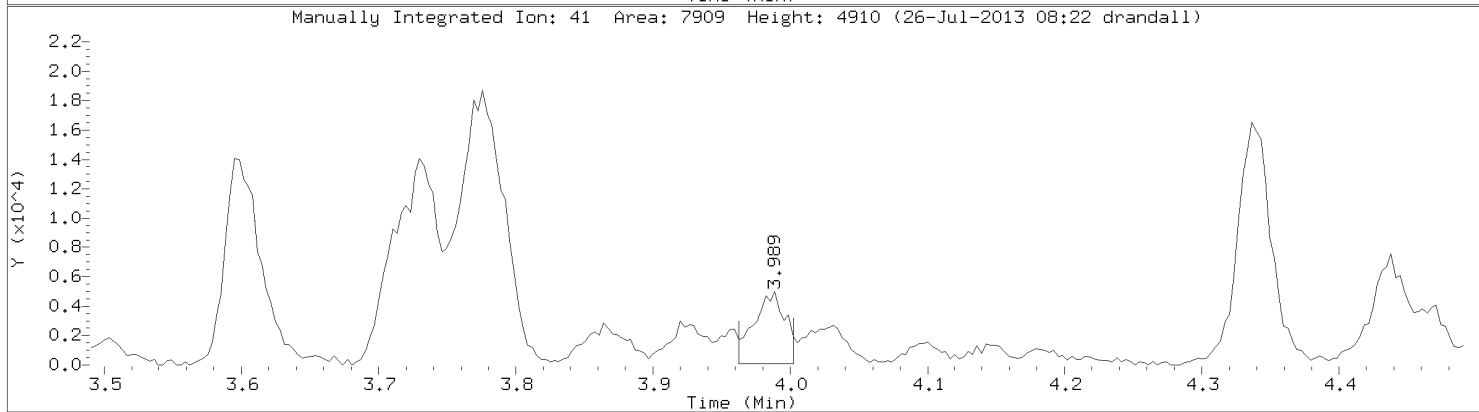
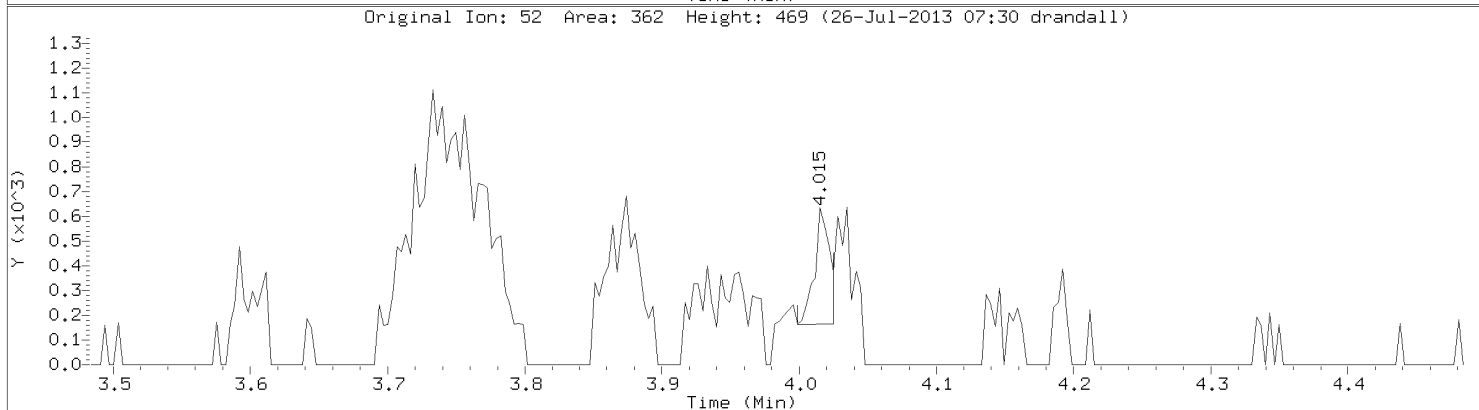
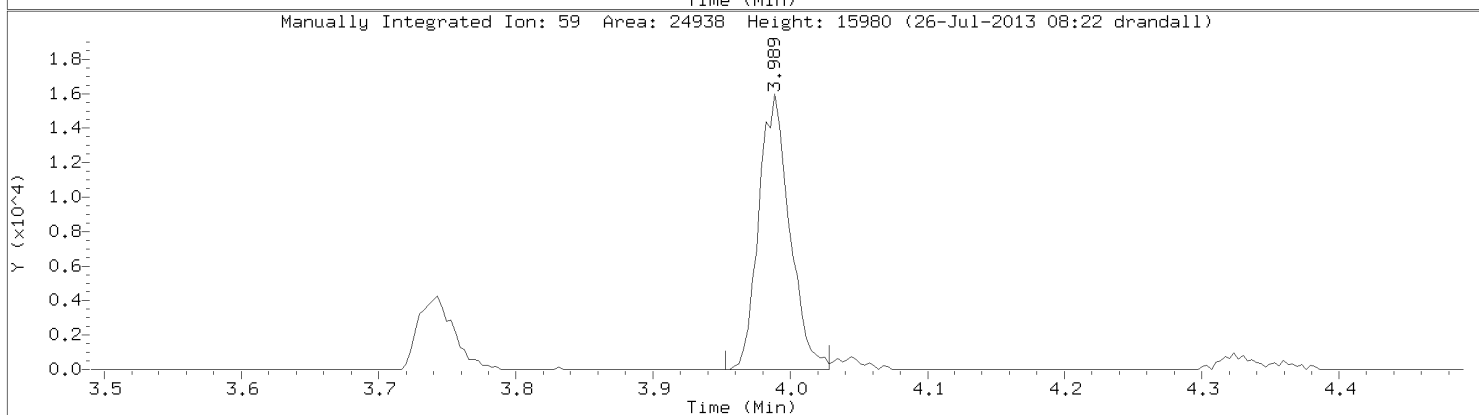
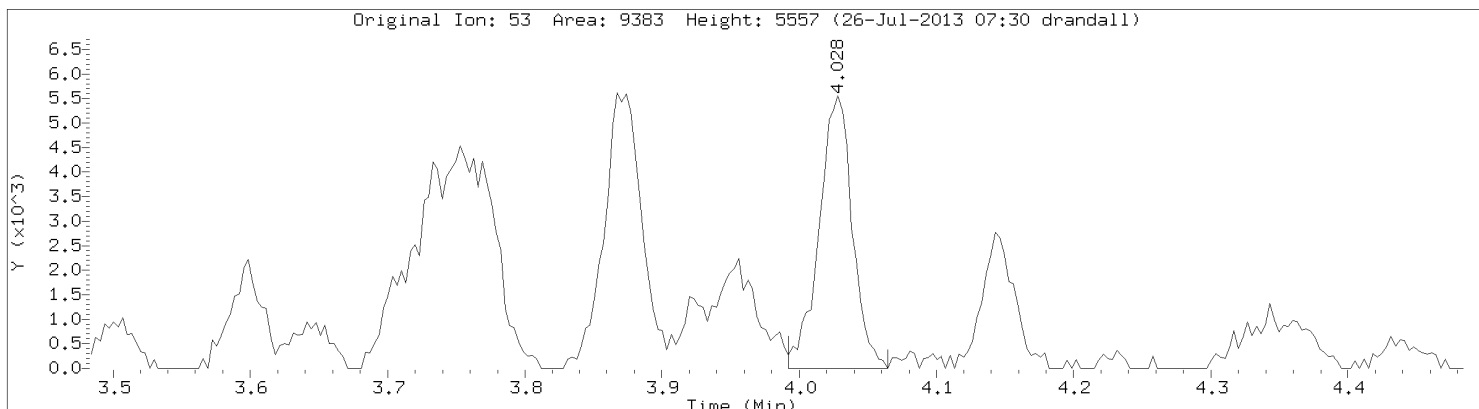
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Injection Date: 26-JUL-2013 01:00
Instrument: 10airD.i
Lab Sample ID: 10236207010

Compound: Acetone
CAS Number: 67-64-1



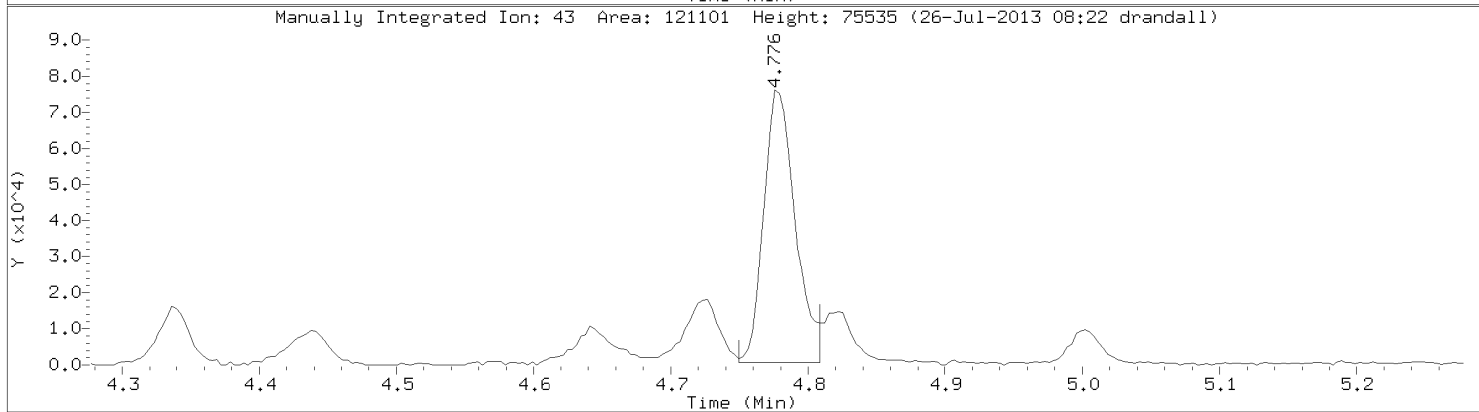
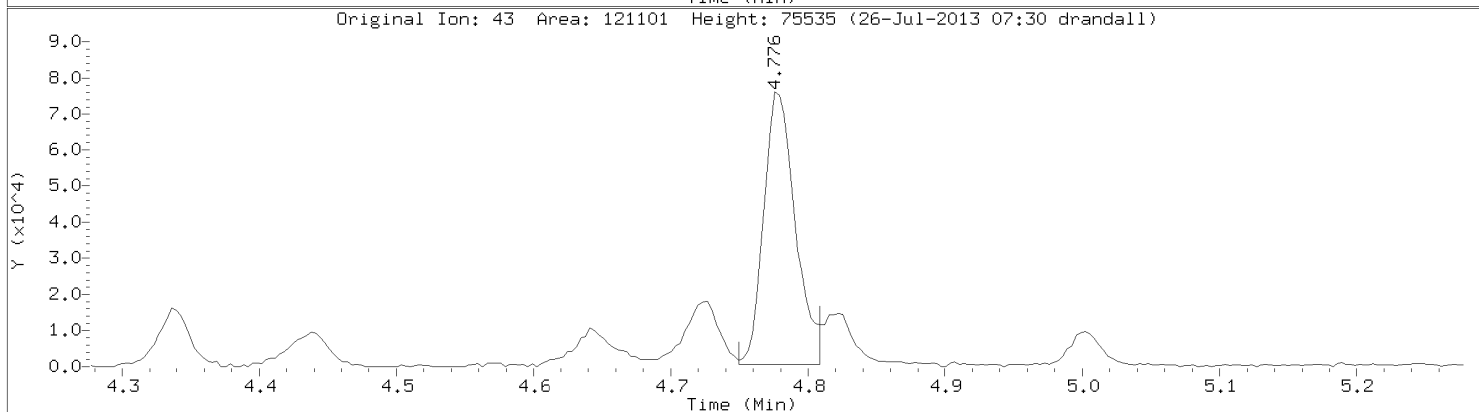
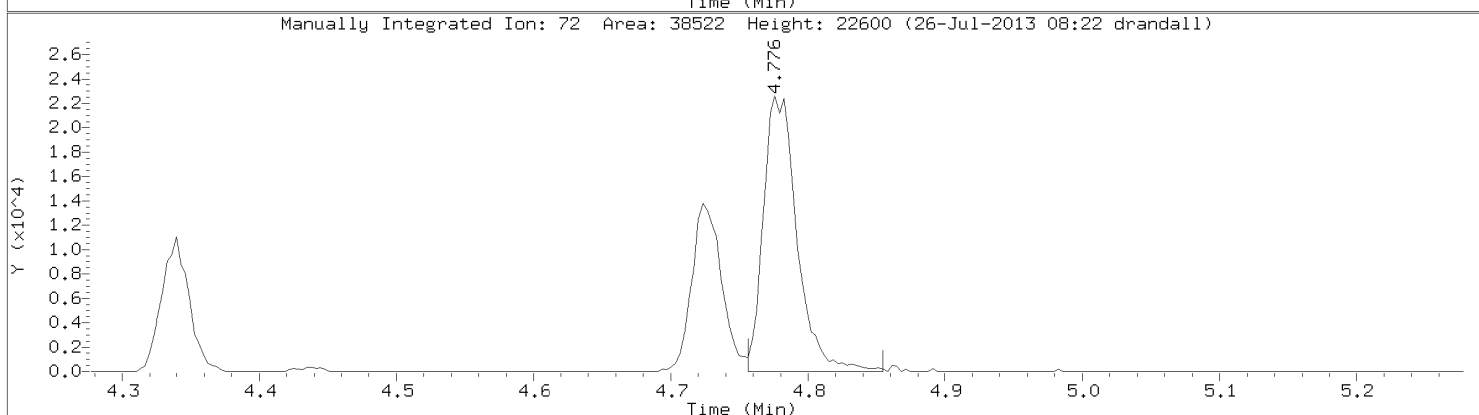
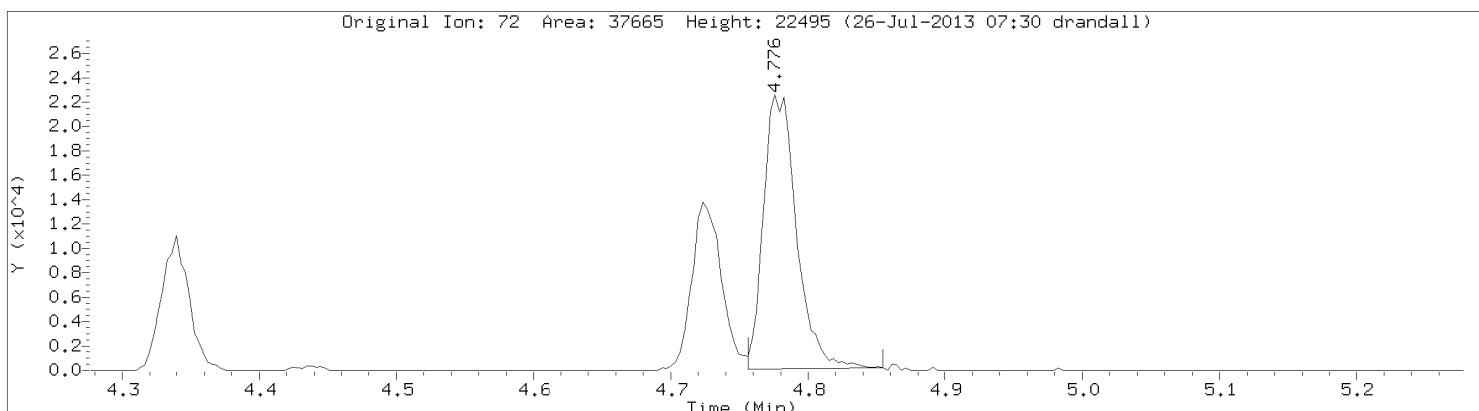
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Injection Date: 26-JUL-2013 01:00
Instrument: 10airD.i
Lab Sample ID: 10236207010

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



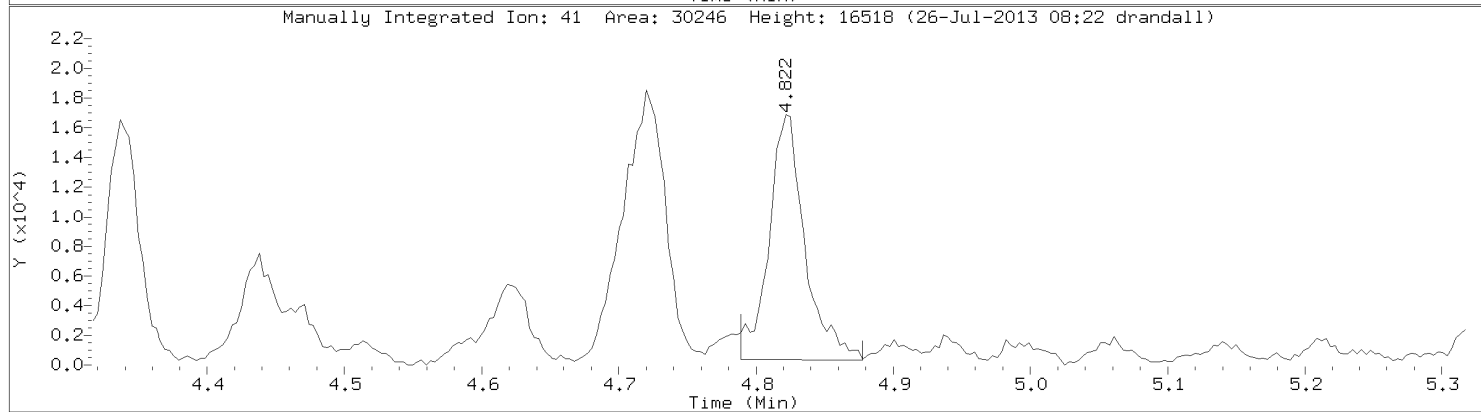
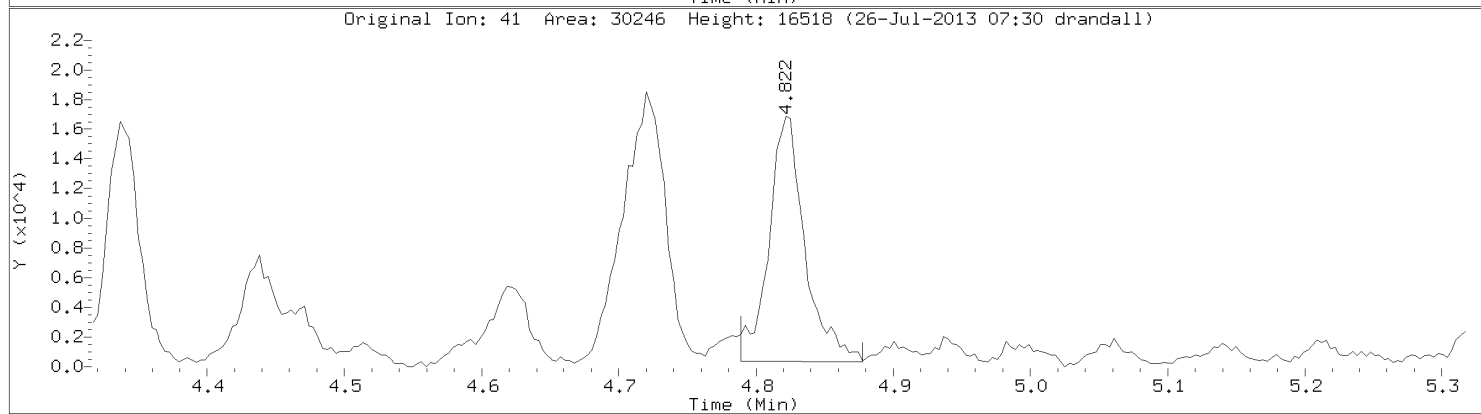
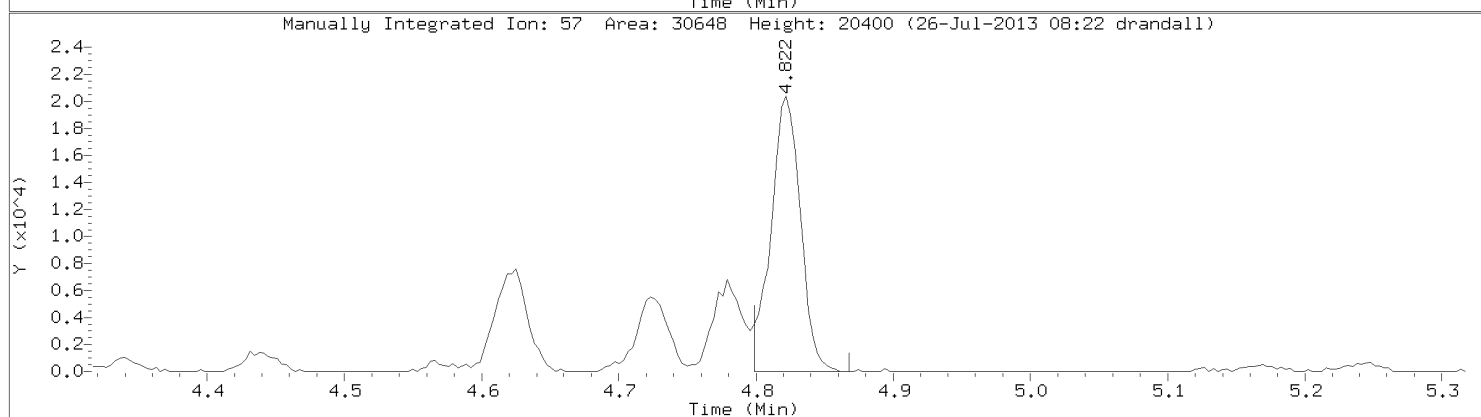
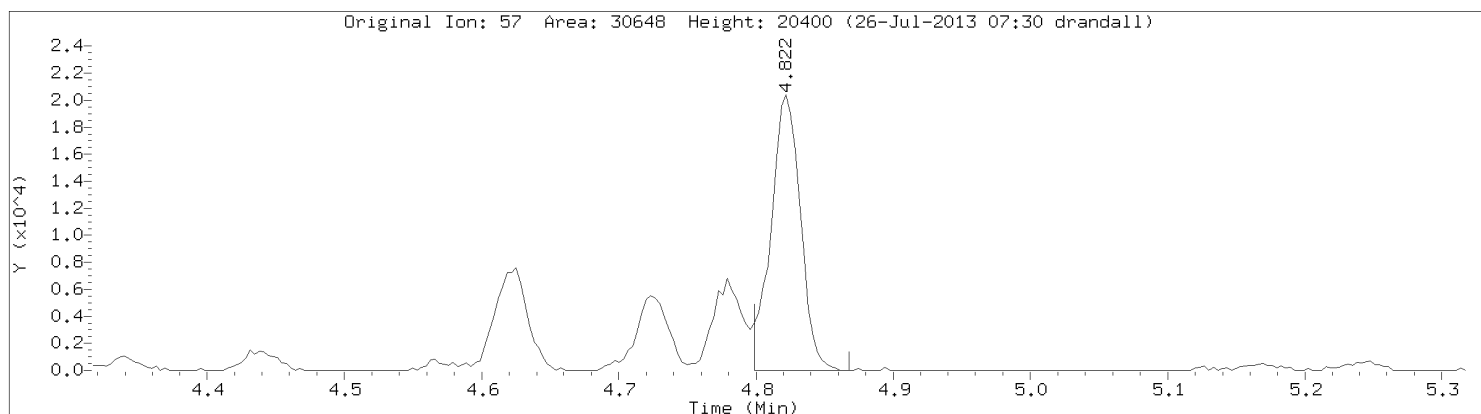
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Injection Date: 26-JUL-2013 01:00
Instrument: 10airD.i
Lab Sample ID: 10236207010

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

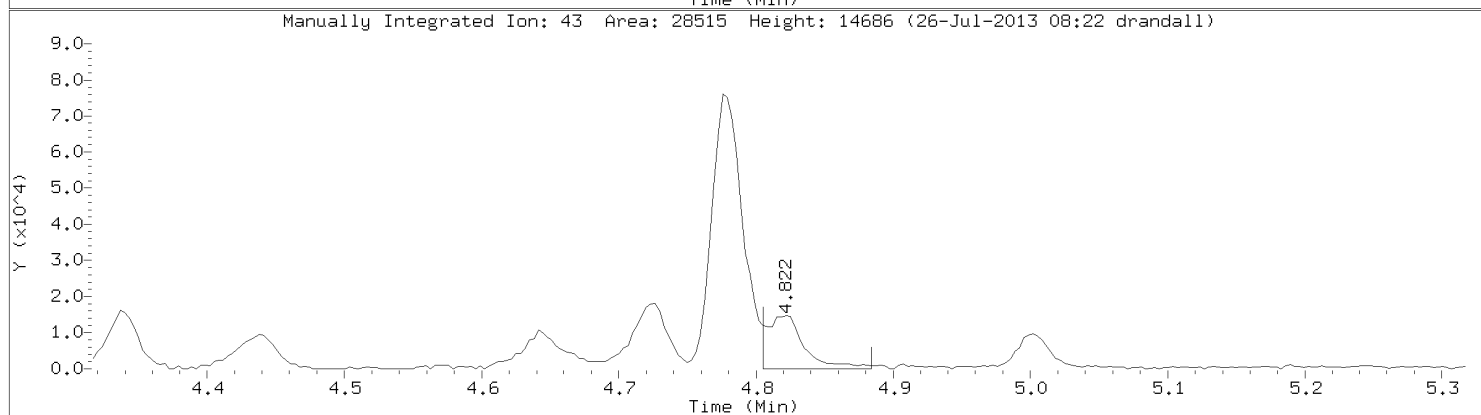
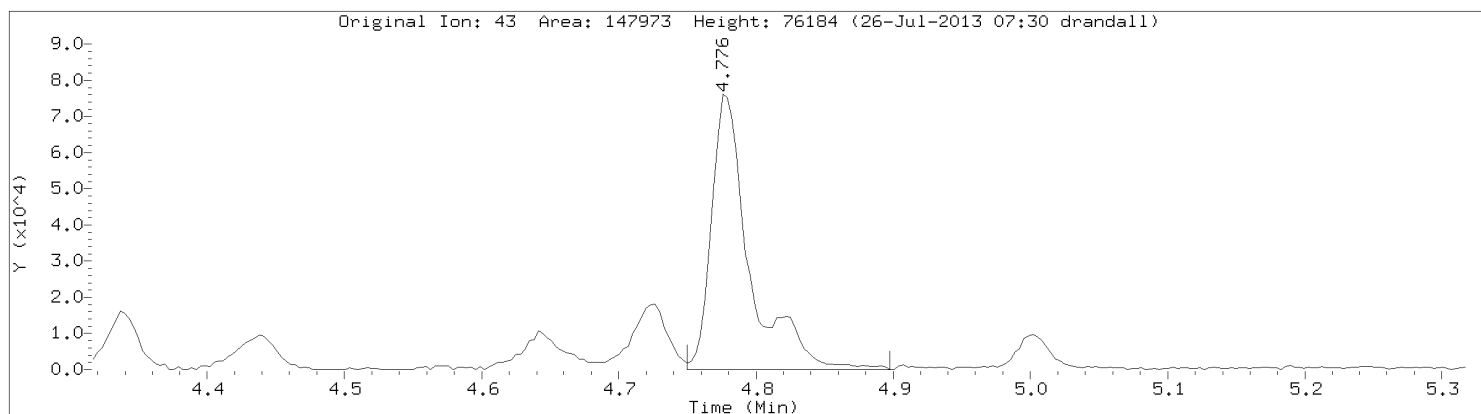


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Injection Date: 26-JUL-2013 01:00
Instrument: 10airD.i
Lab Sample ID: 10236207010

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

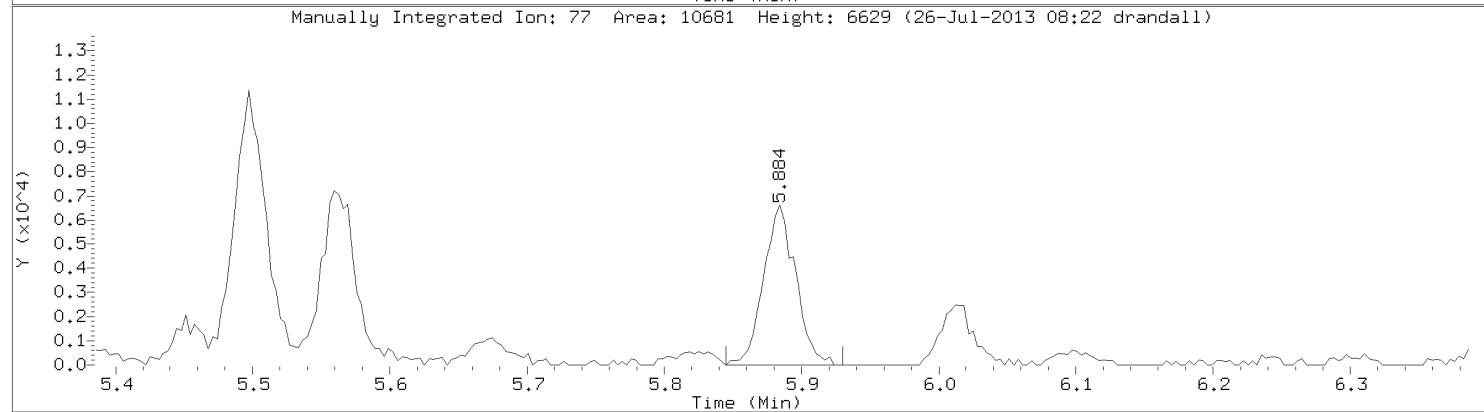
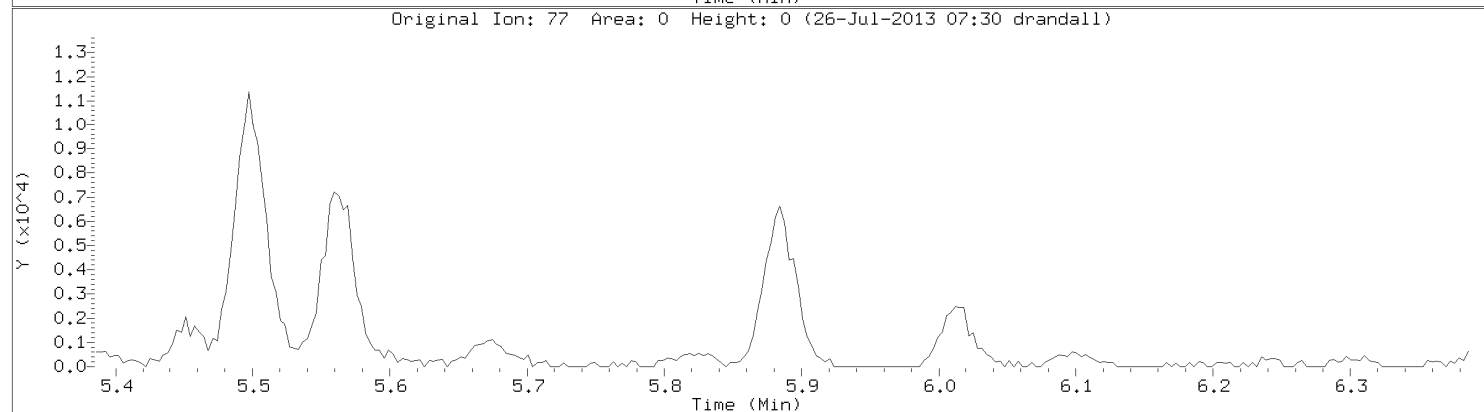
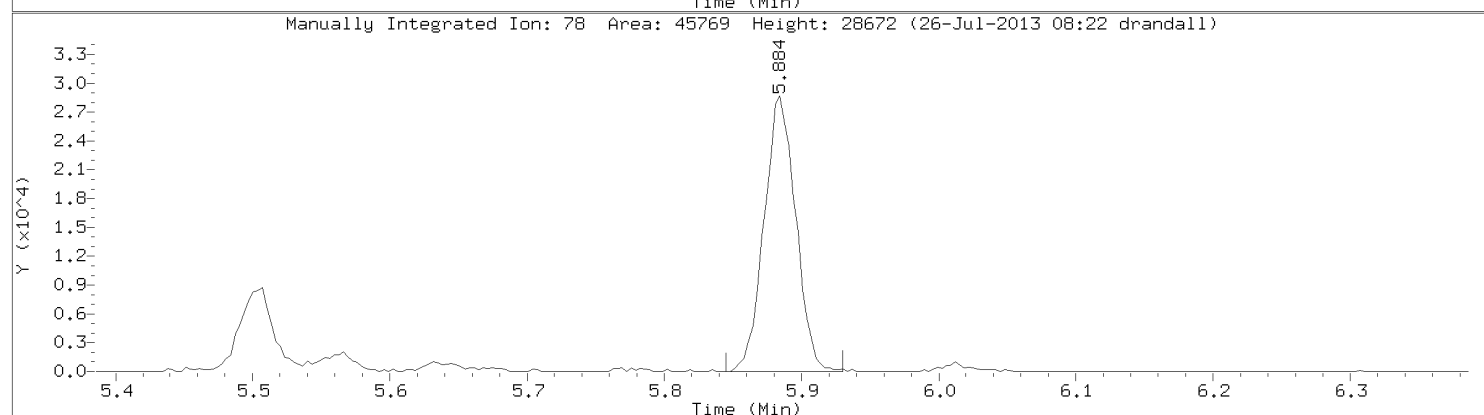
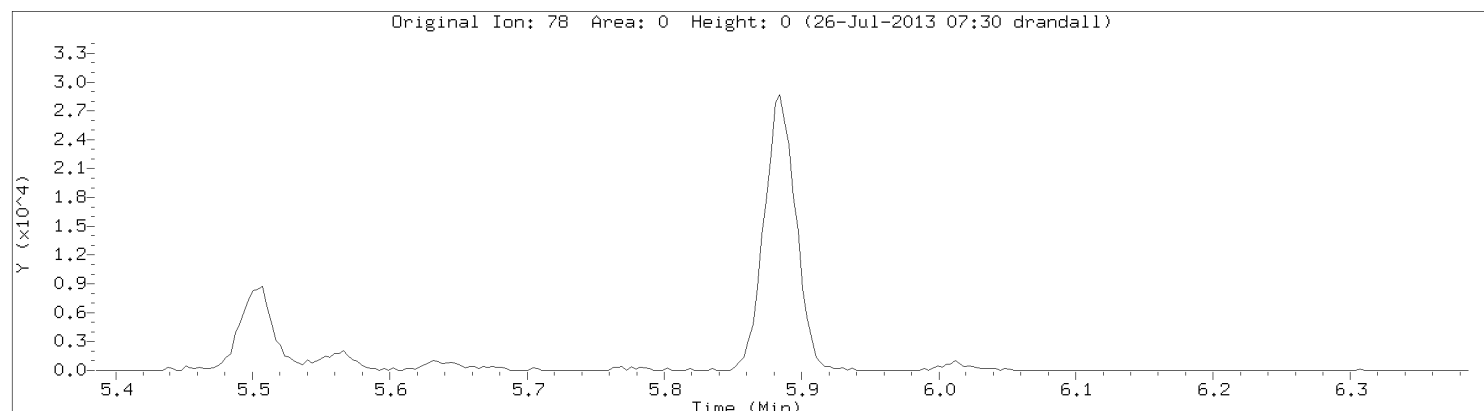


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Injection Date: 26-JUL-2013 01:00
Instrument: 10airD.i
Lab Sample ID: 10236207010

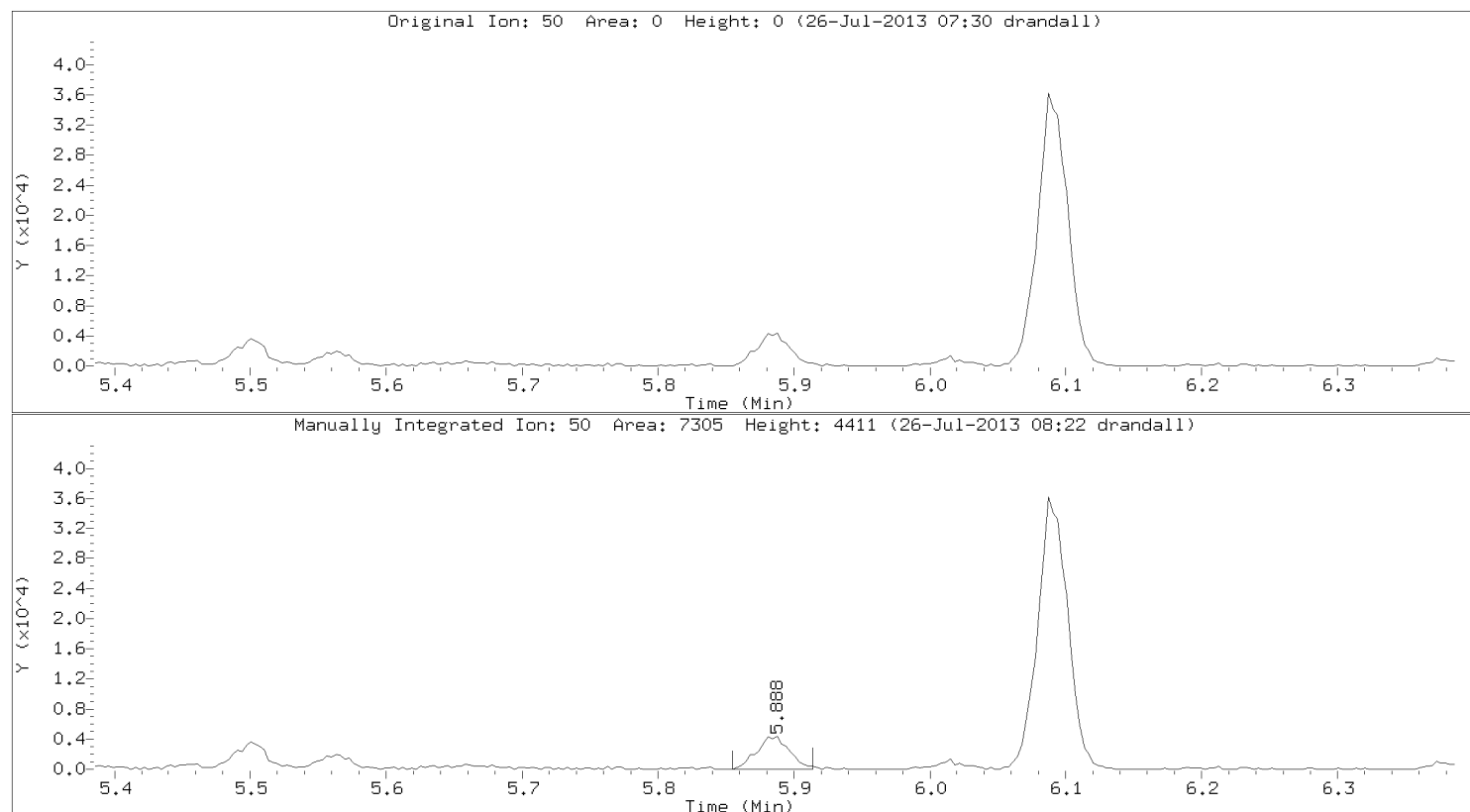


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Injection Date: 26-JUL-2013 01:00
Instrument: 10airD.i
Lab Sample ID: 10236207010

Compound: Benzene
CAS Number: 71-43-2

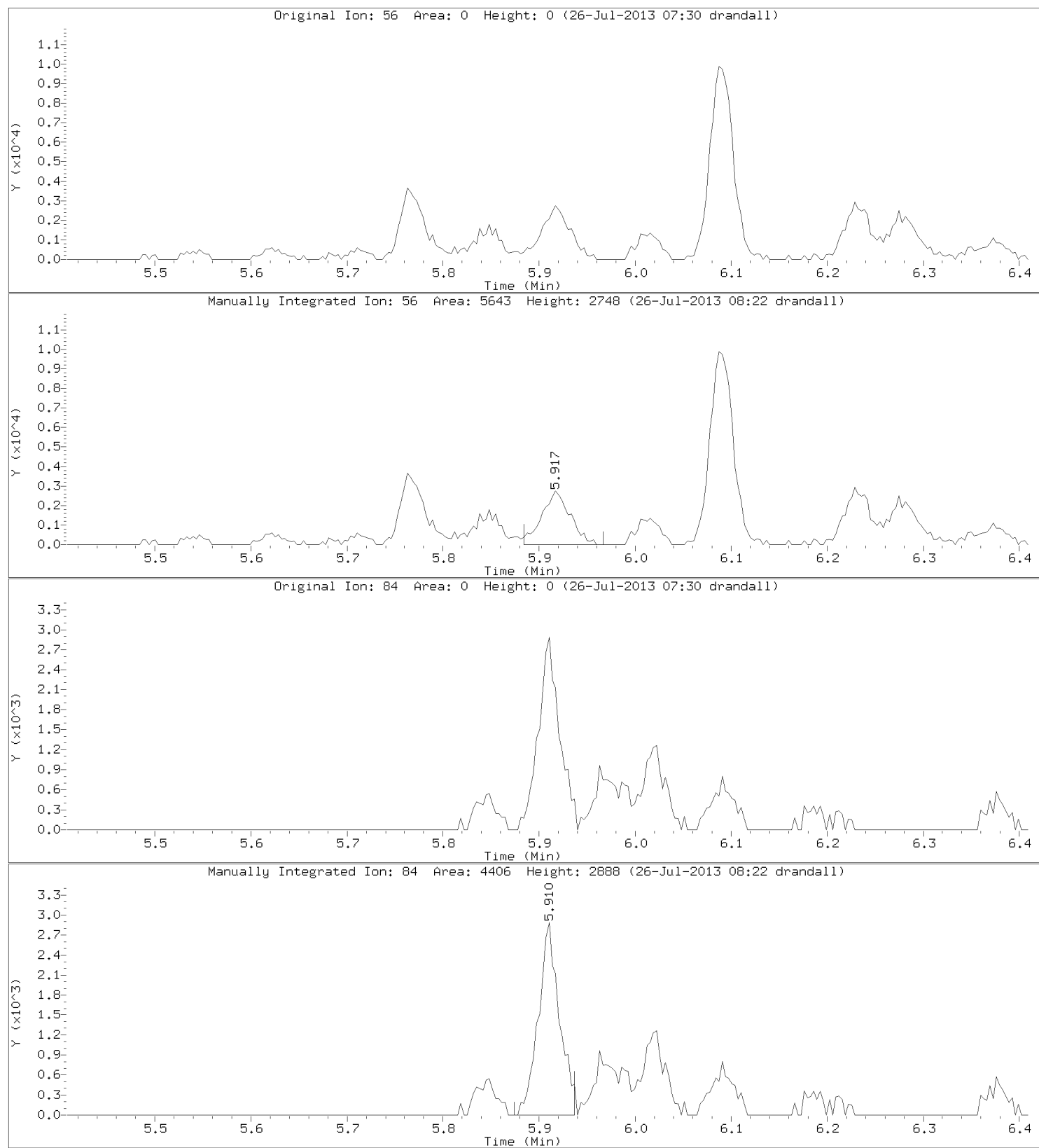


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Lab Sample ID: 10236207010

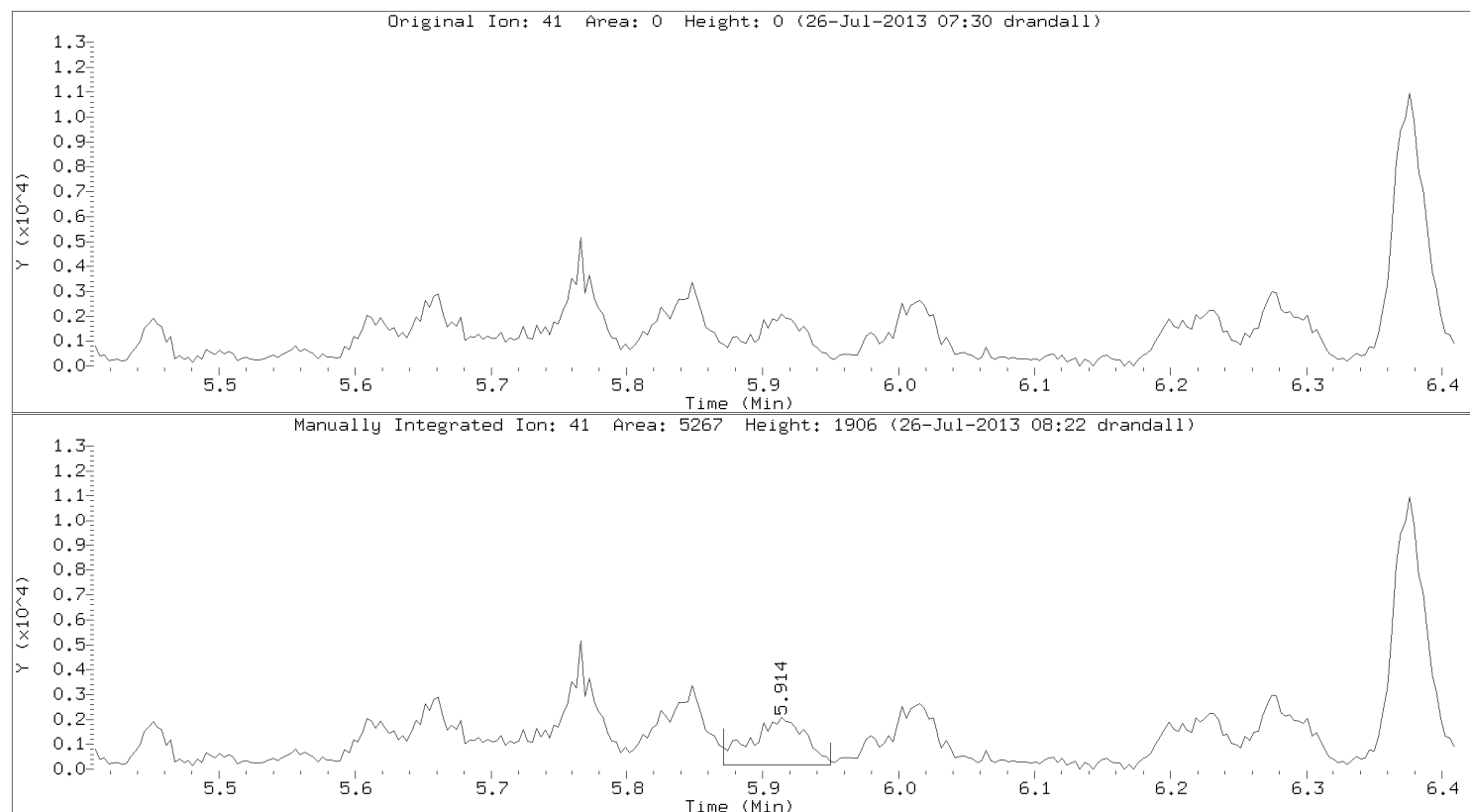


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Injection Date: 26-JUL-2013 01:00
Instrument: 10airD.i
Lab Sample ID: 10236207010

Compound: Cyclohexane
CAS Number: 110-82-7

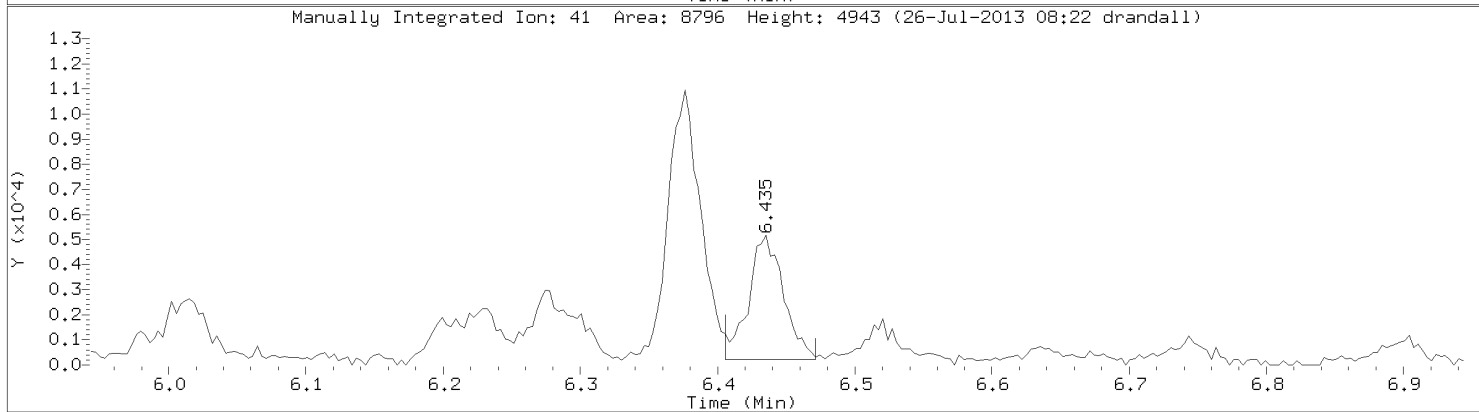
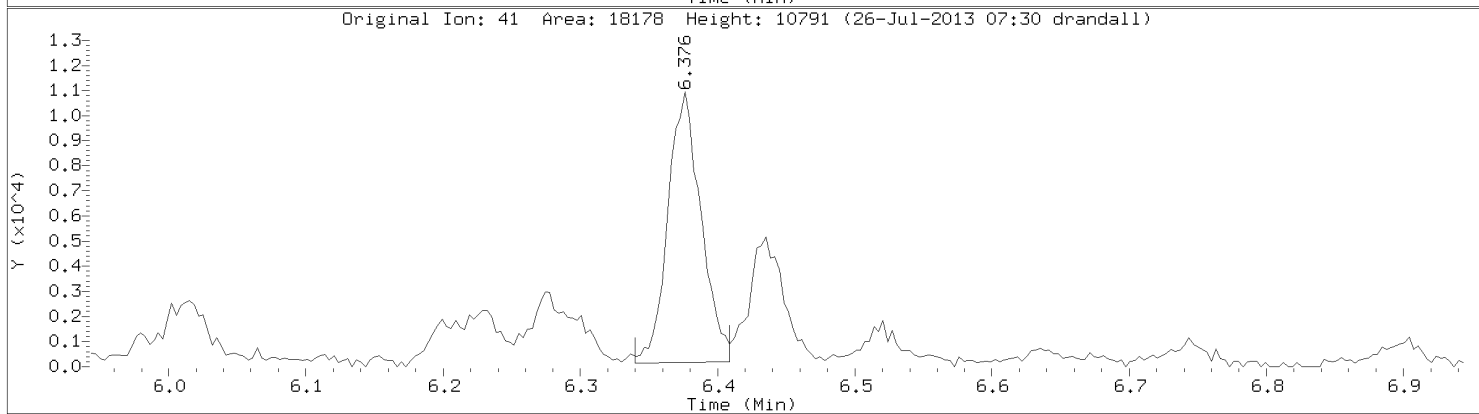
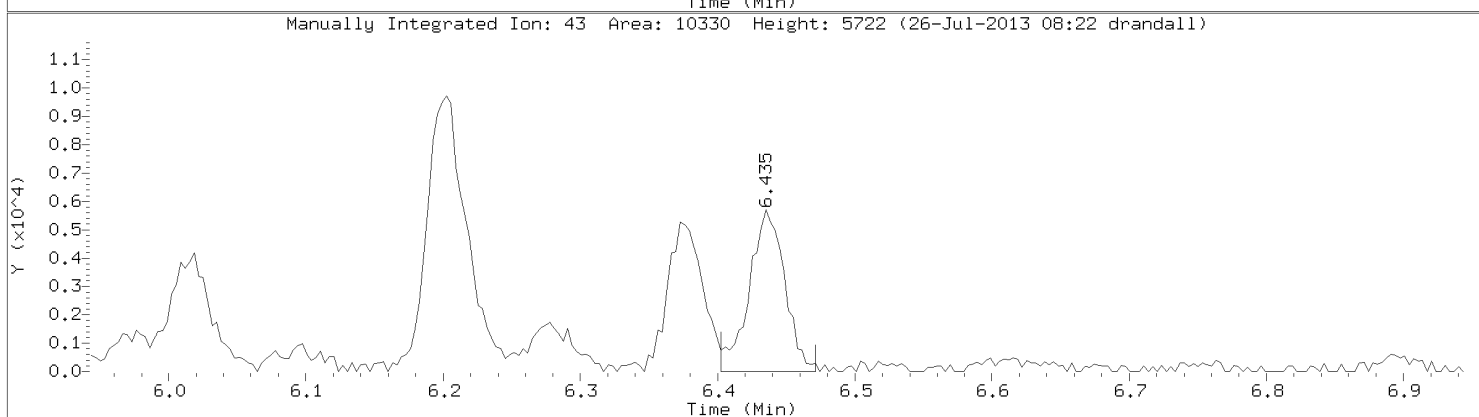
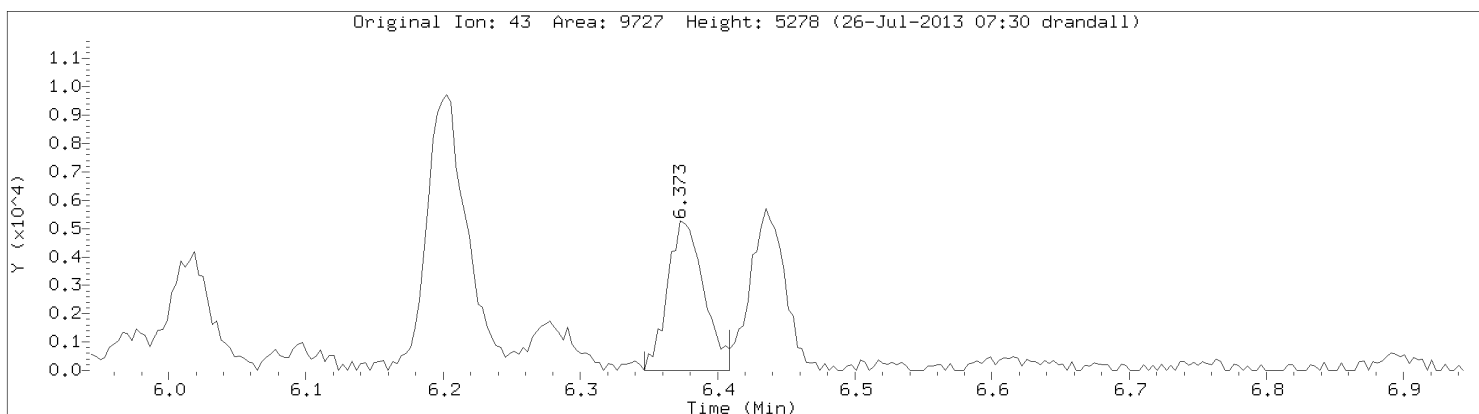


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Instrument: 10airD.i
Lab Sample ID: 10236207010



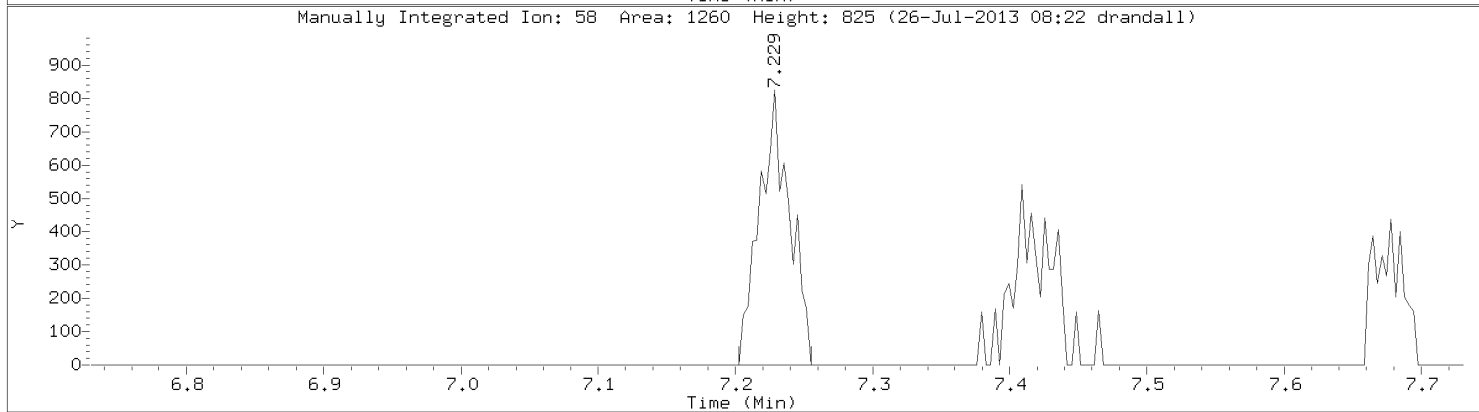
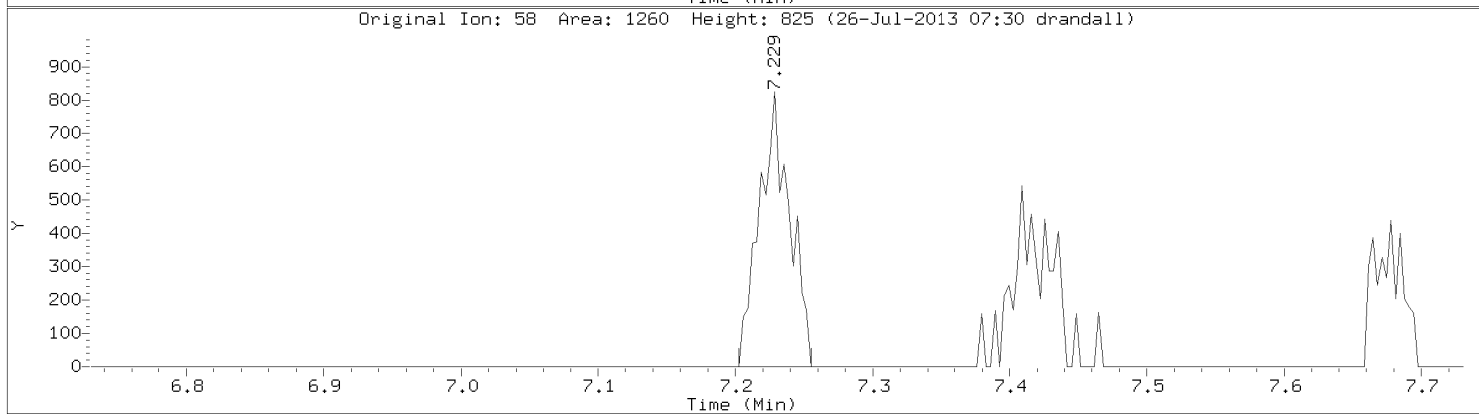
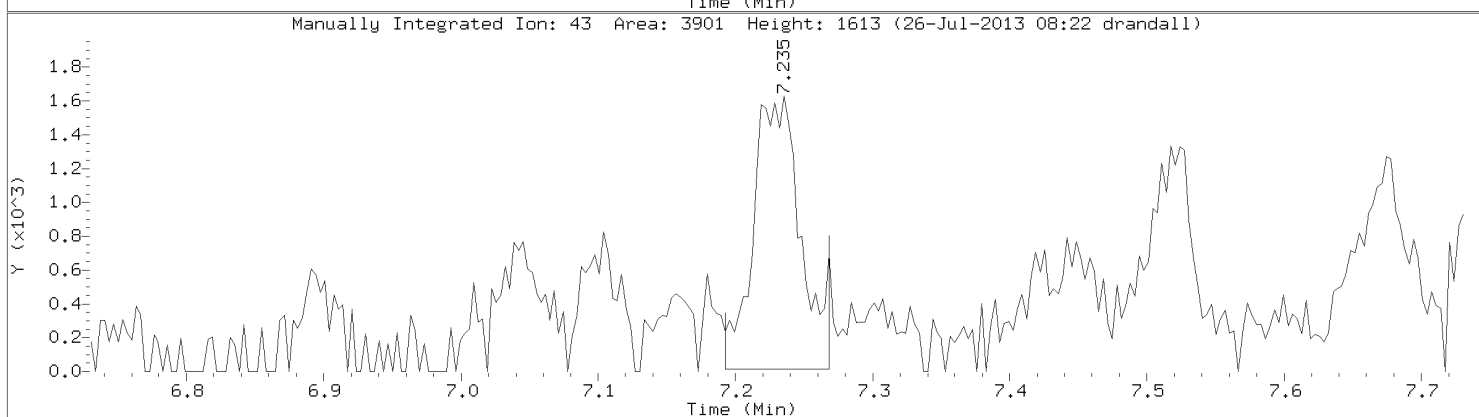
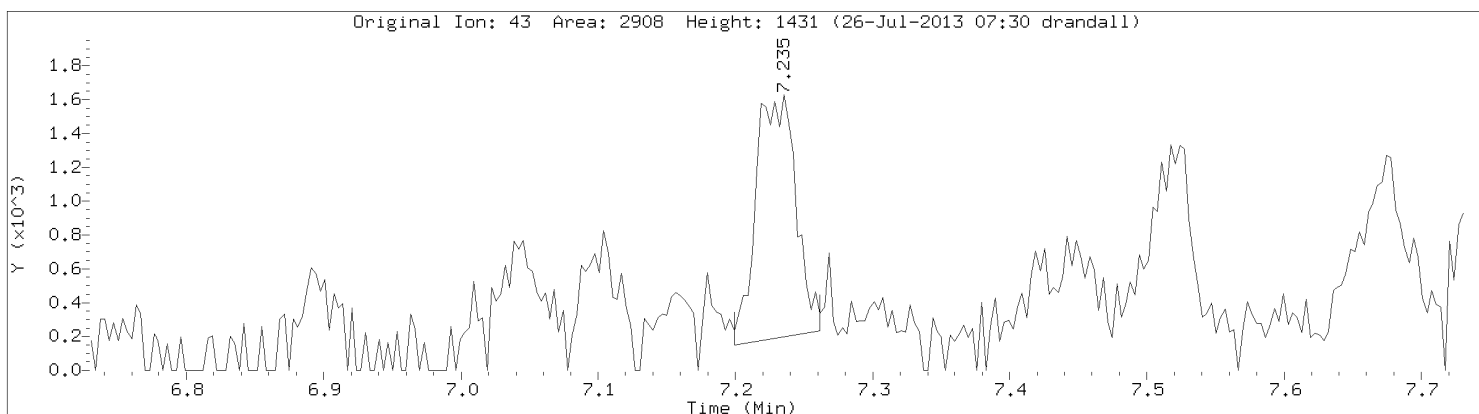
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Injection Date: 26-JUL-2013 01:00
Instrument: 10airD.i
Lab Sample ID: 10236207010

Compound: Heptane
CAS Number: 142-82-5

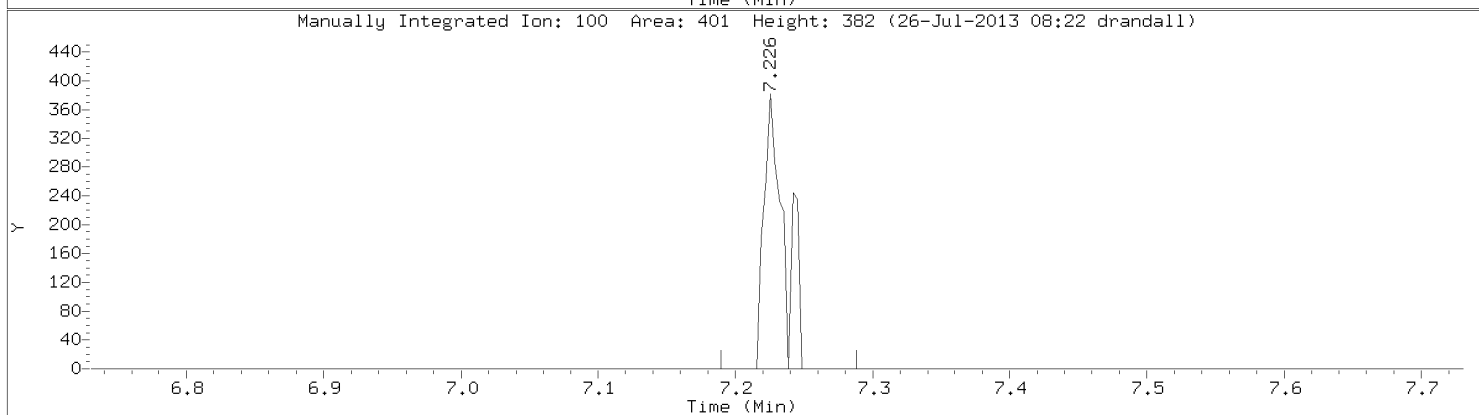
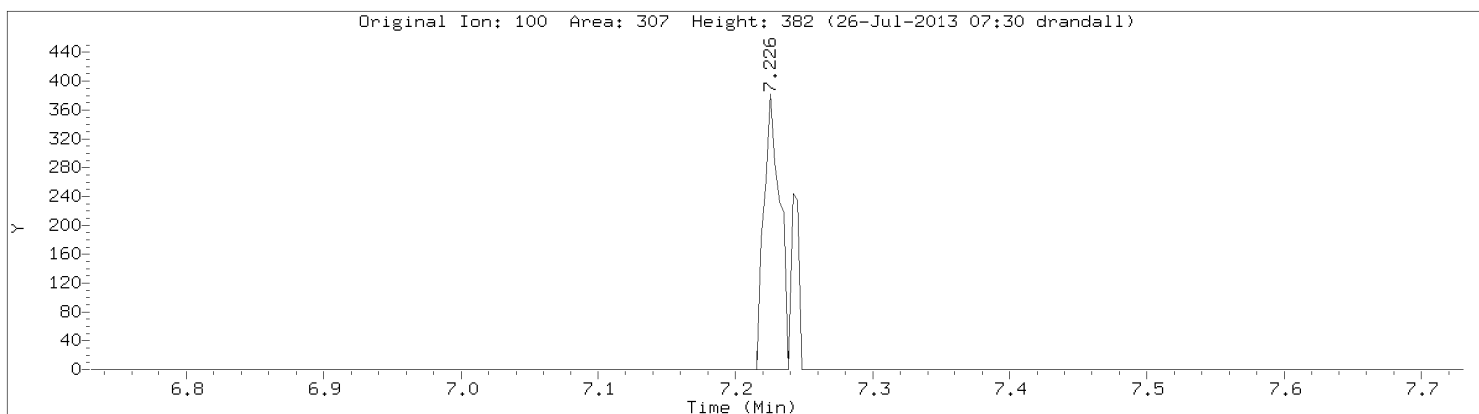


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Injection Date: 26-JUL-2013 01:00
Instrument: 10airD.i
Lab Sample ID: 10236207010

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

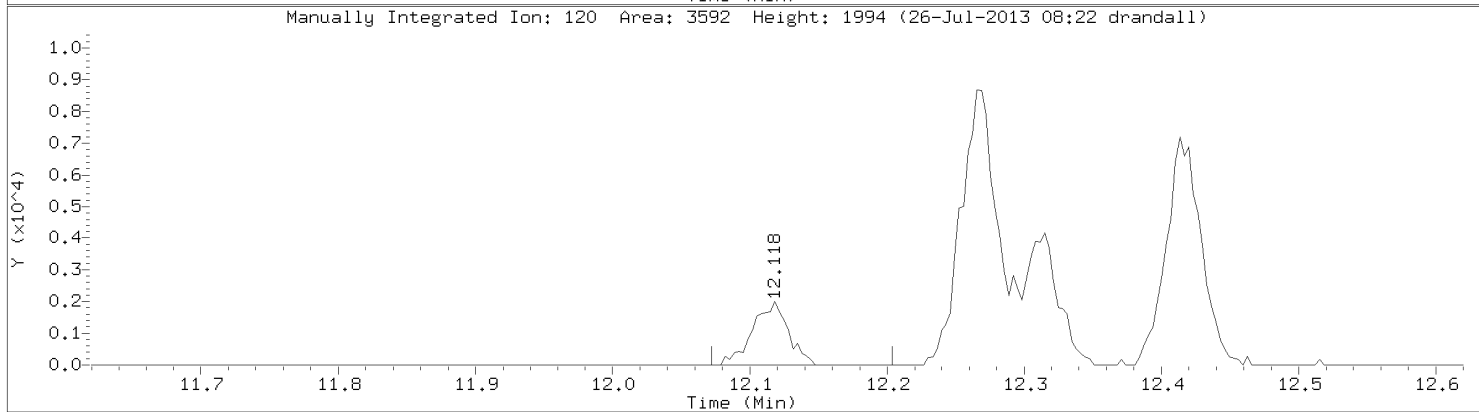
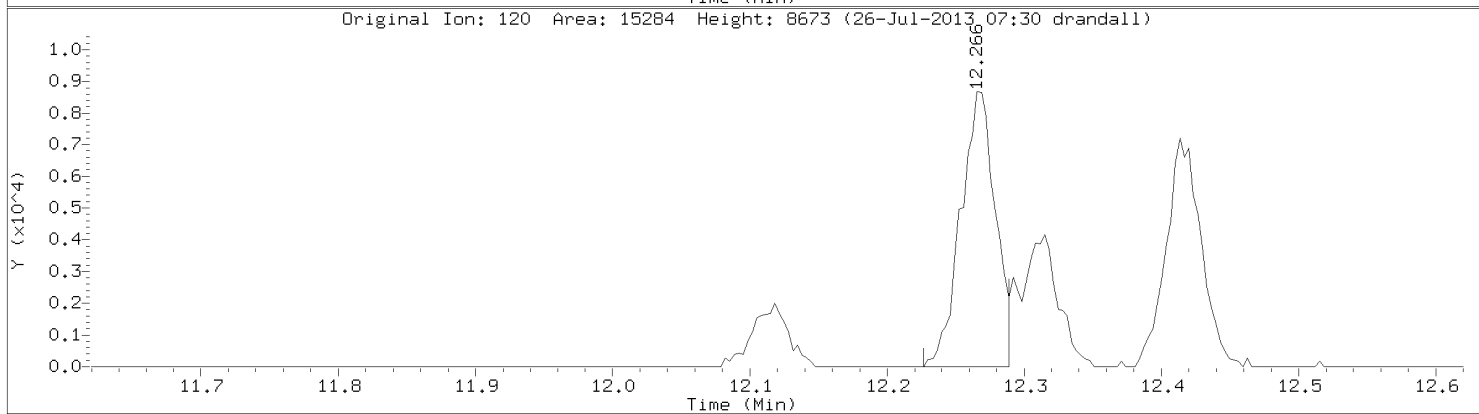
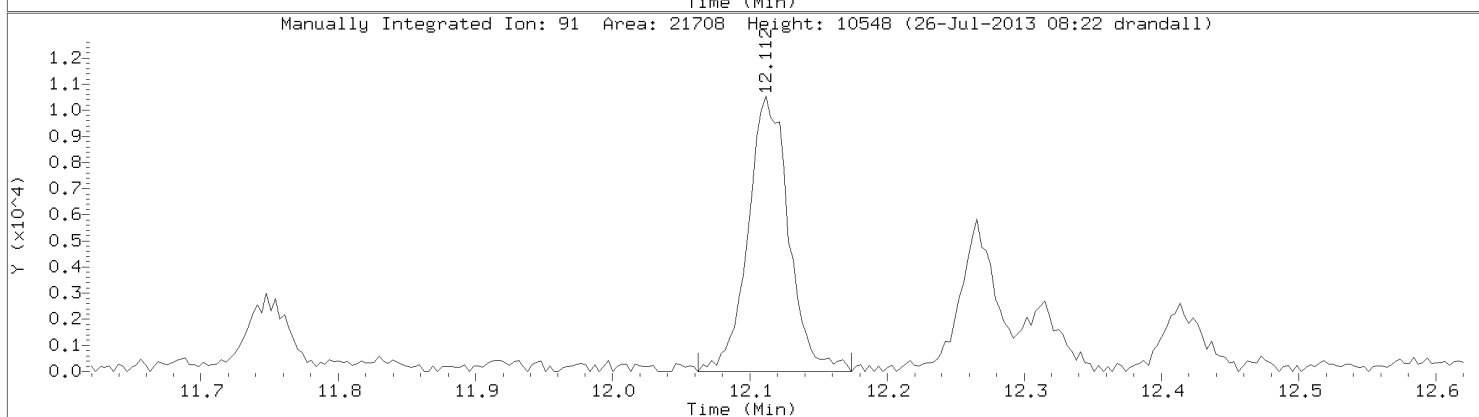
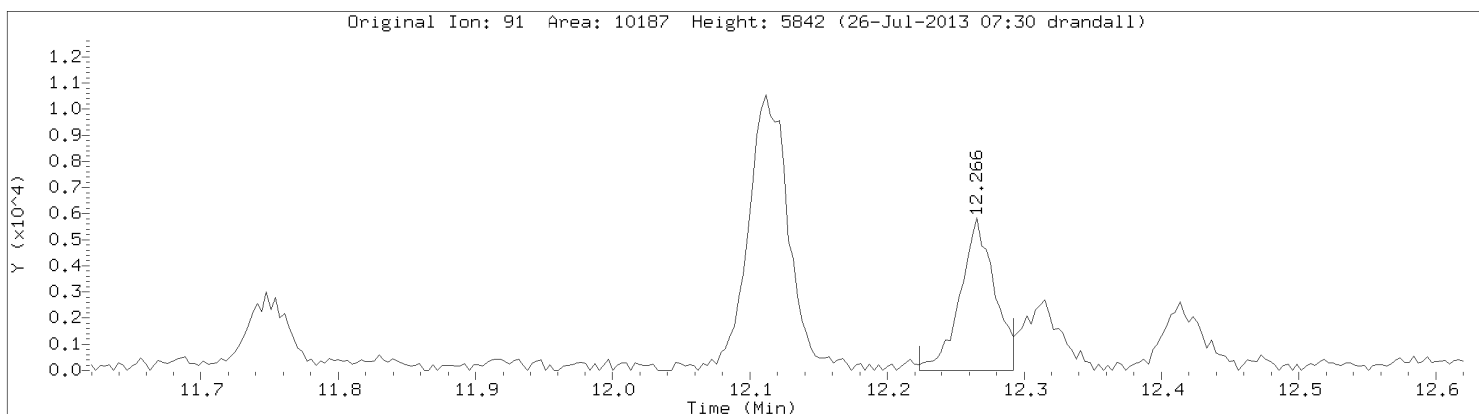


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Injection Date: 26-JUL-2013 01:00
Instrument: 10airD.i
Lab Sample ID: 10236207010



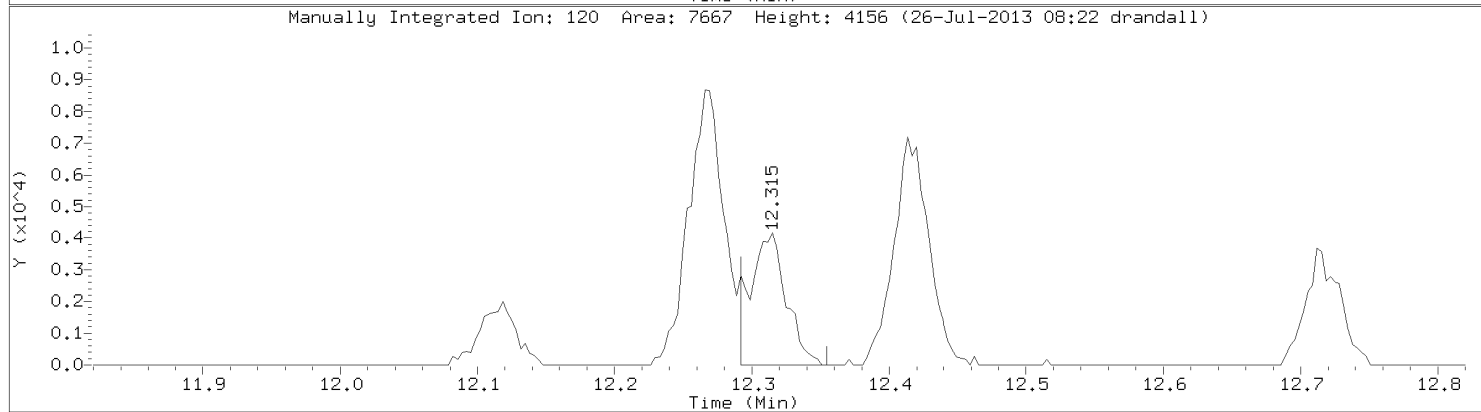
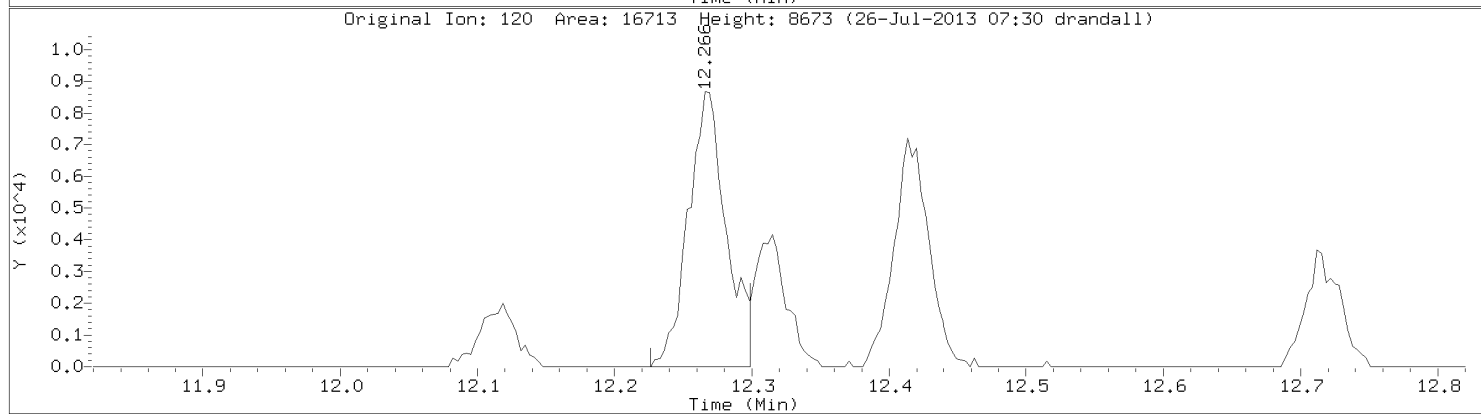
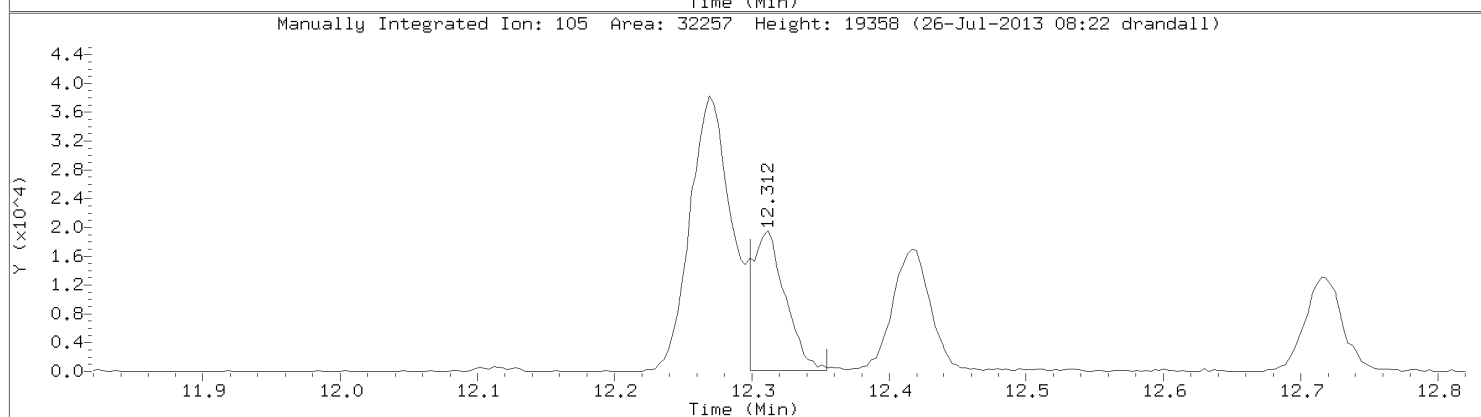
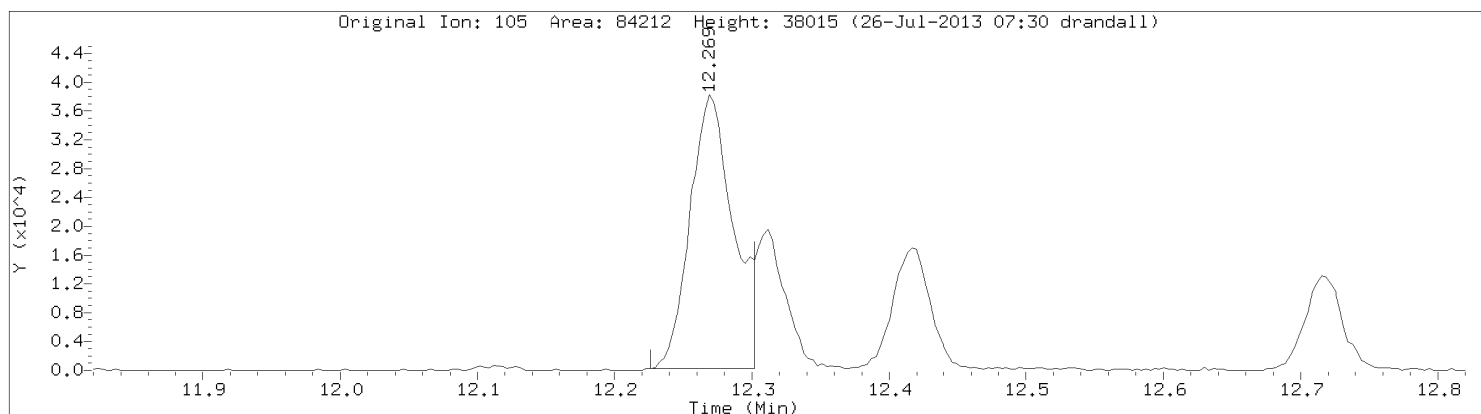
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Injection Date: 26-JUL-2013 01:00
Instrument: 10airD.i
Lab Sample ID: 10236207010

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

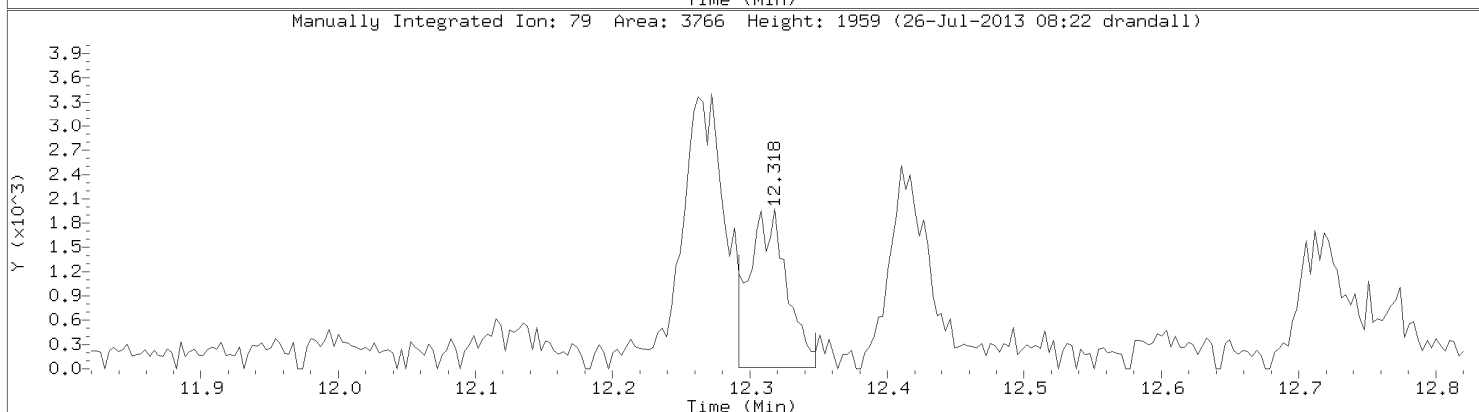
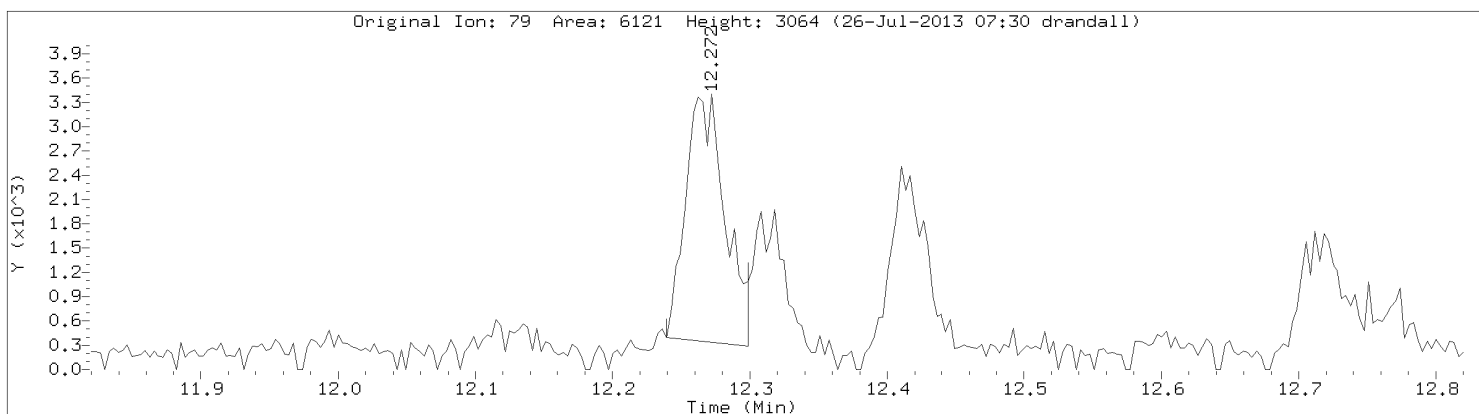


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Injection Date: 26-JUL-2013 01:00
Instrument: 10airD.i
Lab Sample ID: 10236207010

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



Data File: \\192.168.10.12\chem\10airD.i\072513.b\20625.d
Injection Date: 26-JUL-2013 01:00
Instrument: 10airD.i
Lab Sample ID: 10236207010



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072513.b\20620.d
 Lab Smp Id: 10236207011
 Inj Date : 25-JUL-2013 22:27
 Operator : DR1 Inst ID: 10airD.i
 Smp Info :
 Misc Info : 17870
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
 Meth Date : 25-Jul-2013 16:57 creindl Quant Type: ISTD
 Cal Date : 24-JUL-2013 16:39 Cal File: 20509.d
 Als bottle: 20
 Dil Factor: 1.49000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.490	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
1 Propylene	41		2.975	2.982	(0.489)	208242	22.5284	33.6
2 Dichlorodifluoromethane	85		3.001	3.008	(0.493)	22050	0.24776	0.369
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		3.499	3.494	(0.575)	72323	6.82107	10.2 (M)
10 Vinyl Bromide	106					Compound Not Detected.		
11 Acrolein	56					Compound Not Detected.		
12 Trichlorofluoromethane	101		3.700	3.694	(0.607)	13230	0.13666	0.204 (M)
13 Acetone	43		3.729	3.726	(0.612)	412170	8.49337	12.6
14 Isopropyl Alcohol	45					Compound Not Detected.		
15 1,1-Dichloroethene	61		3.998	3.979	(0.656)	7324	0.17011	0.253 (QM)
16 Acrylonitrile	53					Compound Not Detected.		
17 Tert Butyl Alcohol	59		3.985	3.989	(0.654)	26943	0.52922	0.788 (QM)
18 Freon 113	101					Compound Not Detected.		
19 Methylene chloride	49		4.096	4.094	(0.673)	16760	0.60957	0.908
20 Allyl Chloride	76					Compound Not Detected.		
21 Carbon Disulfide	76		4.224	4.224	(0.694)	24021	0.30022	0.447
22 trans-1,2-dichloroethene	96					Compound Not Detected.		
23 Methyl Tert Butyl Ether	73					Compound Not Detected.		
24 Vinyl Acetate	43					Compound Not Detected.		

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20620.d
 Report Date: 26-Jul-2013 08:11

Compounds	QUANT MASS	SIG						CONCENTRATIONS	
			RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppbv)	FINAL (ppbv)	
25 1,1-Dichloroethane	63		Compound Not Detected.						
\$ 26 Hexane-d14(S)	66		4.700	4.700	(0.772)	305581	8.64481	8.64	
27 Methyl Ethyl Ketone	72		4.775	4.779	(0.784)	31500	2.80366	4.18	
28 n-Hexane	57		4.818	4.818	(0.791)	58298	1.81421	2.70 (M)	
29 cis-1,2-Dichloroethene	96		Compound Not Detected.						
30 Ethyl Acetate	43		Compound Not Detected.						
31 Chloroform	83		Compound Not Detected.						
32 Tetrahydrofuran	42		Compound Not Detected.						
33 1,1,1-Trichloroethane	97		Compound Not Detected.						
34 1,2-Dichloroethane	62		Compound Not Detected.						
35 Benzene	78		5.880	5.887	(0.966)	352343	5.53720	8.25	
36 Carbon tetrachloride	117		Compound Not Detected.						
37 Cyclohexane	56		5.916	5.910	(0.971)	16450	1.09307	1.63 (QM)	
* 38 1,4-Difluorobenzene	114		6.090	6.094	(1.000)	732014	10.0000		
39 2,2,4-Trimethylpentane	57		6.271	6.271	(1.030)	23719	0.69545	1.04 (QM)	
40 Heptane	43		6.434	6.442	(1.057)	28530	1.53798	2.29	
41 1,2-Dichloropropane	63		Compound Not Detected.						
42 Trichloroethene	130		Compound Not Detected.						
43 1,4-Dioxane	88		Compound Not Detected.						
44 Bromodichloromethane	83		Compound Not Detected.						
45 Methyl Isobutyl Ketone	43		Compound Not Detected.						
46 cis-1,3-Dichloropropene	75		Compound Not Detected.						
47 trans-1,3-Dichloropropene	75		Compound Not Detected.						
\$ 48 Toluene-d8 (S)	98		7.841	7.848	(1.288)	505217	9.88228	9.88	
49 Toluene	91		7.933	7.940	(1.303)	485488	5.83270	8.69	
50 1,1,2-Trichloroethane	97		Compound Not Detected.						
51 Methyl Butyl Ketone	43		Compound Not Detected.						
52 Dibromochloromethane	129		Compound Not Detected.						
53 1,2-Dibromoethane	107		Compound Not Detected.						
54 Tetrachloroethene	166		8.907	8.918	(0.920)	5445	0.50554	0.753	
* 55 Chlorobenzene - d5	117		9.684	9.691	(1.000)	270124	10.0000		
56 Chlorobenzene	112		Compound Not Detected.						
57 Ethyl Benzene	91		10.032	10.039	(1.036)	97080	1.22499	1.82	
58 m&p-Xylene	91		10.202	10.213	(1.053)	260759	3.36542	5.01	
59 Bromoform	173		Compound Not Detected.						
60 Styrene	104		10.704	10.708	(1.105)	7688	0.60717	0.905 (M)	
61 o-Xylene	91		10.776	10.783	(1.113)	84042	1.15868	1.73	
62 1,1,2,2-Tetrachloroethane	83		Compound Not Detected.						
63 Isopropylbenzene	105		Compound Not Detected.						
64 N-Propylbenzene	91		12.114	12.121	(1.251)	22704	0.47255	0.704 (M)	
65 4-Ethyltoluene	105		12.314	12.321	(1.272)	41308	0.73255	1.09 (M)	
66 1,3,5-Trimethylbenzene	105		12.419	12.426	(1.282)	29708	0.62938	0.938	
67 1,2,4-Trimethylbenzene	105		13.013	13.020	(1.344)	138155	1.96209	2.92	
68 1,3-Dichlorobenzene	146		Compound Not Detected.						
69 Sec- Butylbenzene	105		Compound Not Detected.						
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.446	13.459	(1.388)	107513	9.86047	9.86	
71 Benzyl Chloride	91		Compound Not Detected.						
72 1,4-Dichlorobenzene	146		Compound Not Detected.						
73 1,2-Dichlorobenzene	146		Compound Not Detected.						
74 N-Butylbenzene	91		Compound Not Detected.						
75 1,2,4-Trichlorobenzene	180		Compound Not Detected.						
76 Naphthalene	128		16.856	16.860	(1.741)	51887	1.59870	2.38	
77 Hexachlorobutadiene	225		Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20620.d
Report Date: 26-Jul-2013 08:11

QC Flag Legend

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

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20620.d
Report Date: 26-Jul-2013 08:11

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 20620.d
Lab Smp Id: 10236207011
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
Misc Info: 17870

Calibration Date: 25-JUL-2013
Calibration Time: 13:08

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	732014	26.26
55 Chlorobenzene - d	221404	132842	309966	270124	22.01

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	-0.00
55 Chlorobenzene - d	9.69	9.36	10.02	9.68	-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\072513.b\20620.D

Date : 25-JUL-2013 22:27

Client ID:

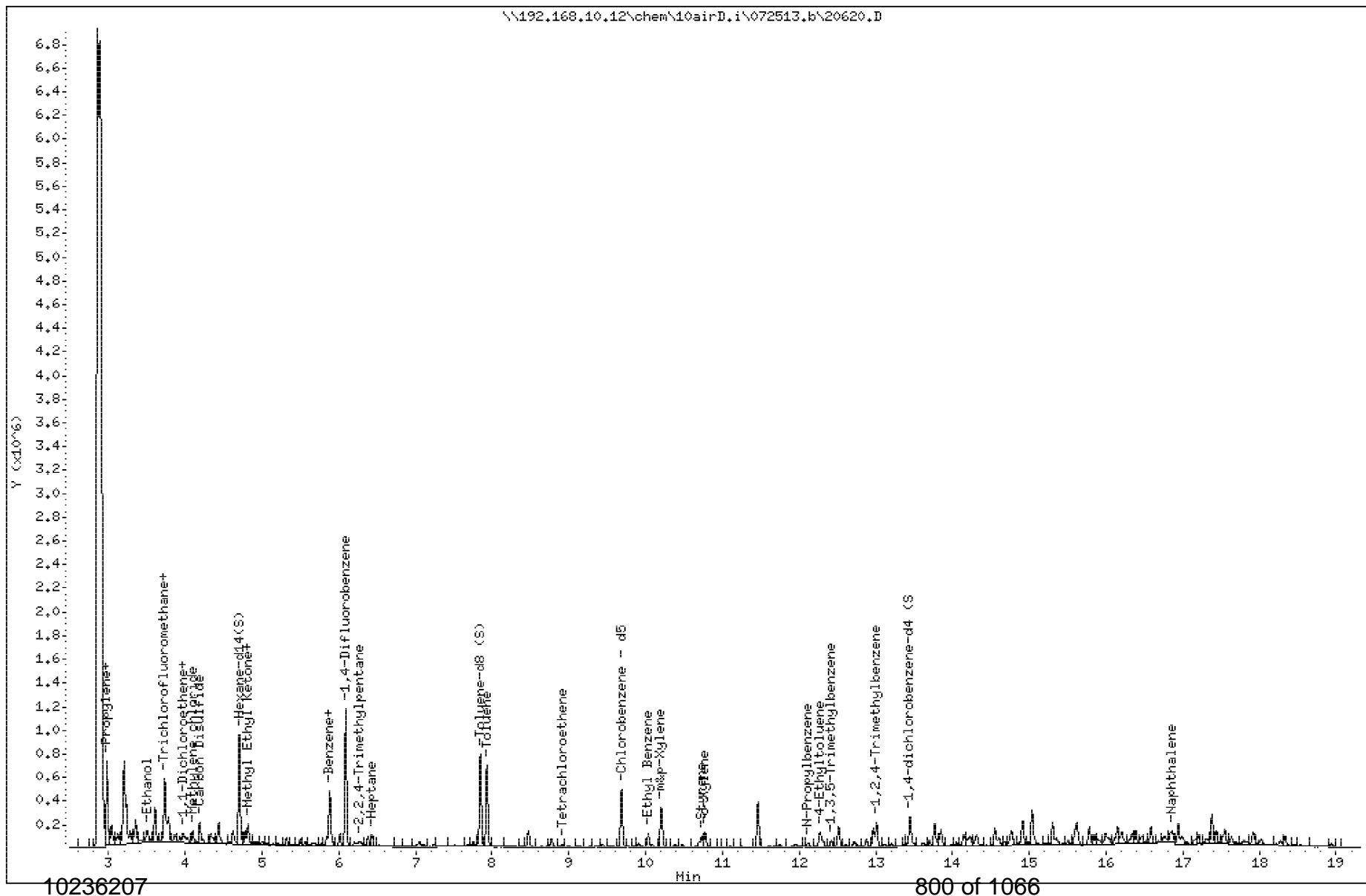
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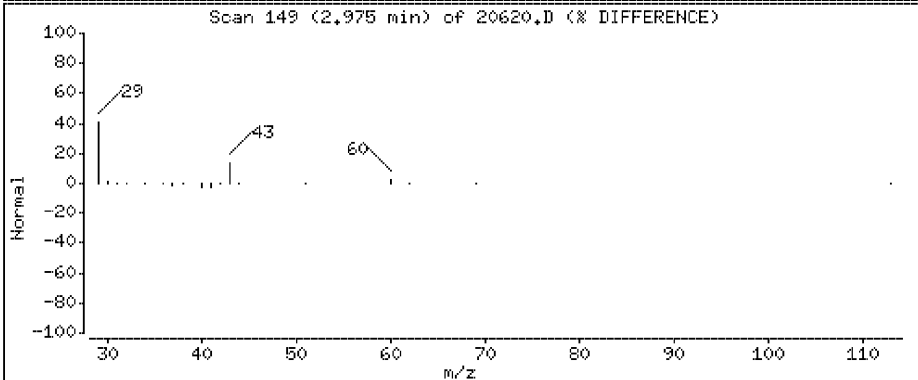
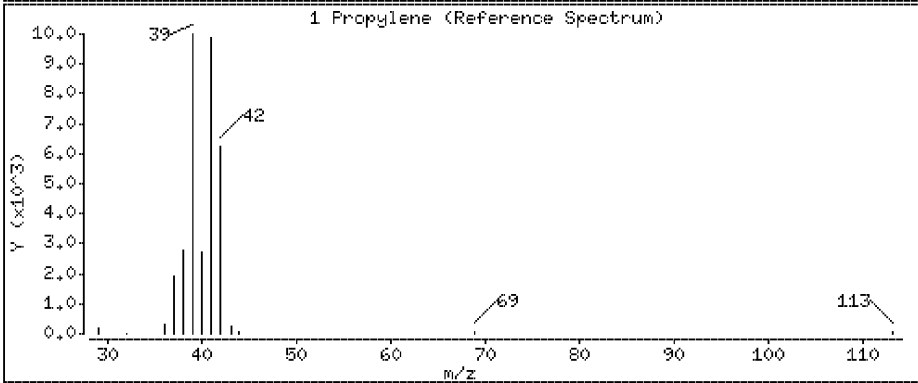
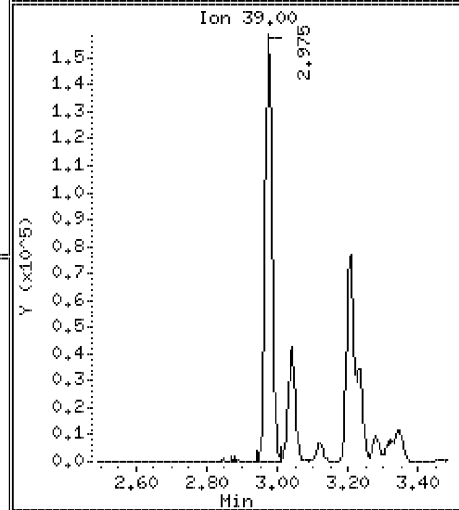
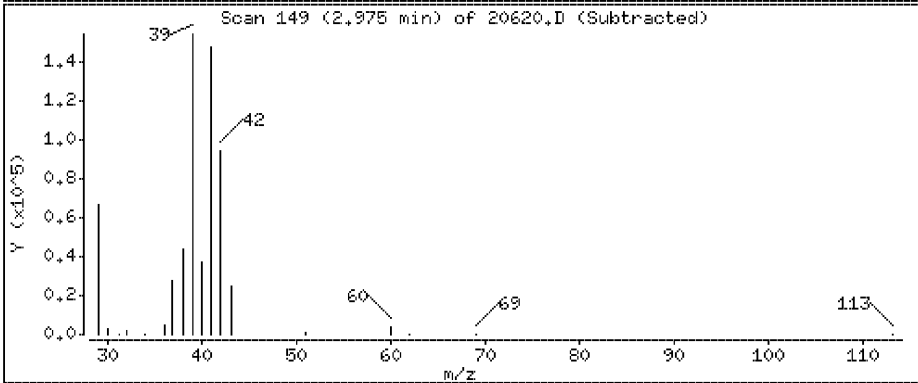
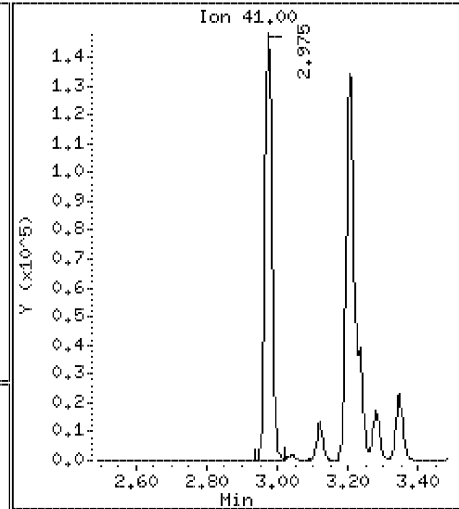
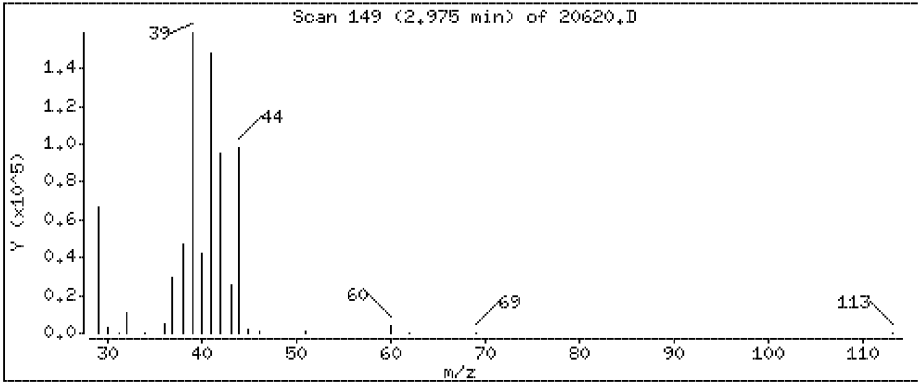
Sample Info:

Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20620.D

Date : 25-JUL-2013 22:27

Client ID:

Instrument: 10airD.i

Sample Info:

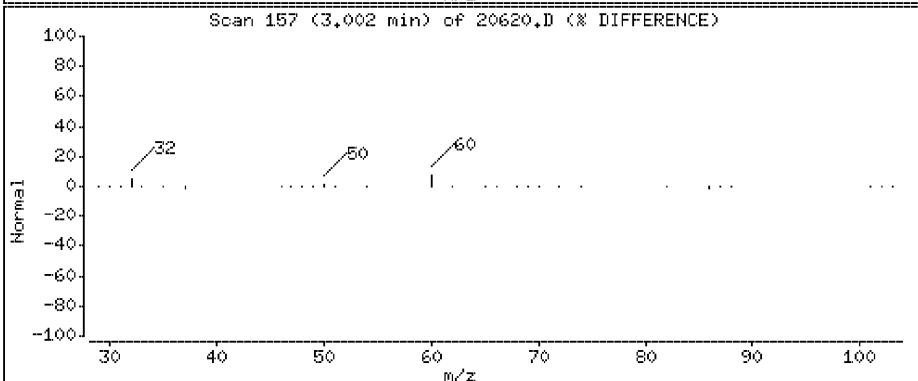
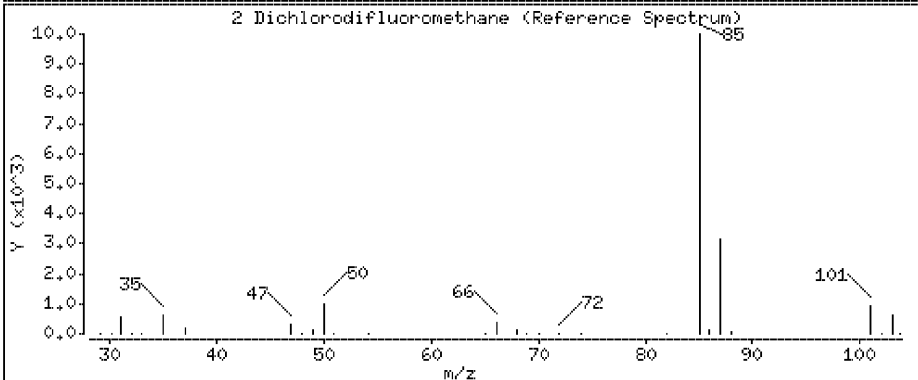
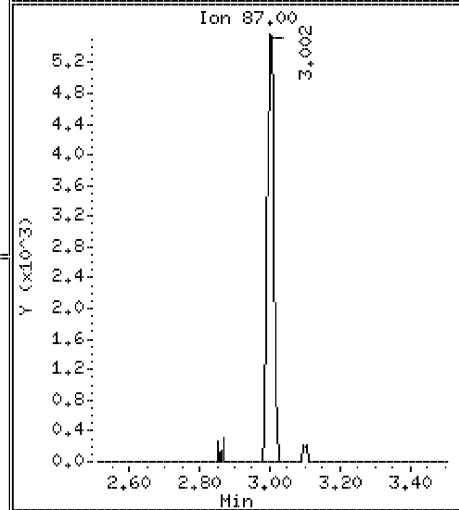
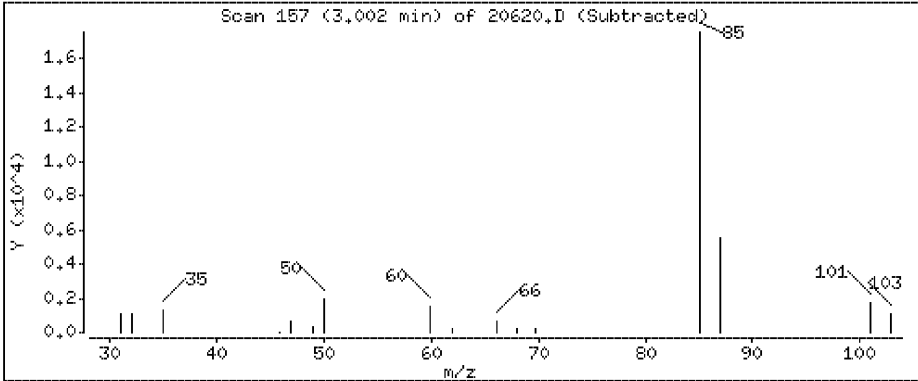
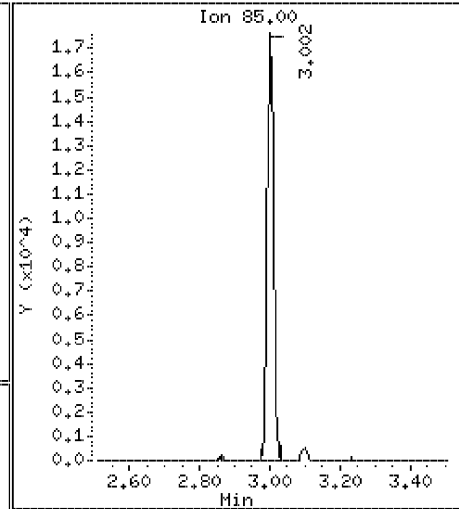
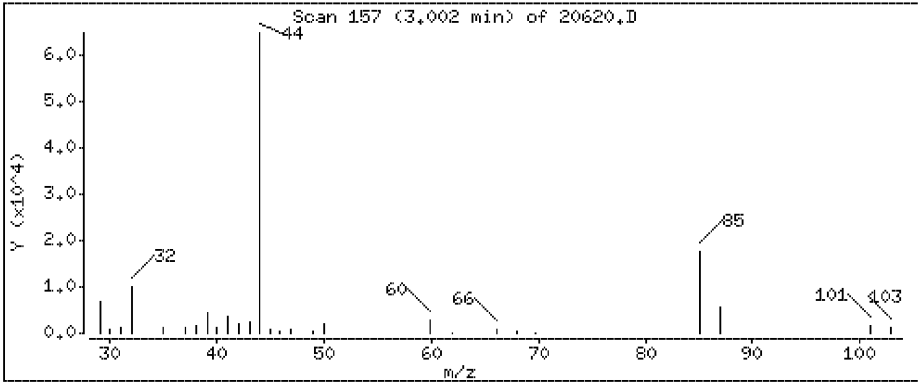
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

2 Dichlorodifluoromethane

Concentration: 0.369 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20620.D

Date : 25-JUL-2013 22:27

Client ID:

Instrument: 10airD.i

Sample Info:

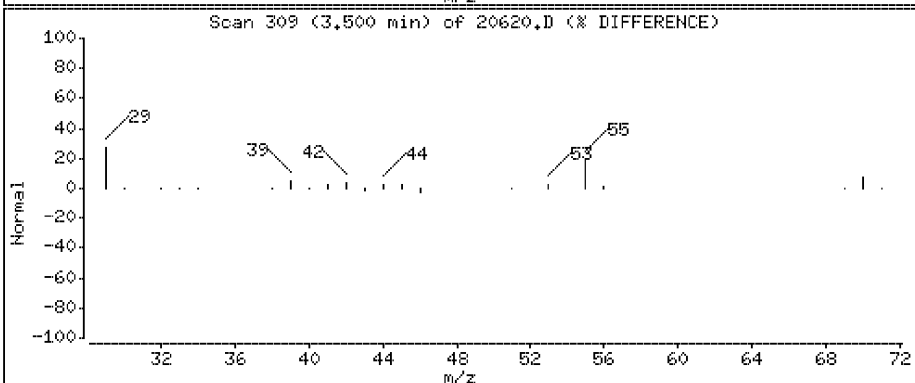
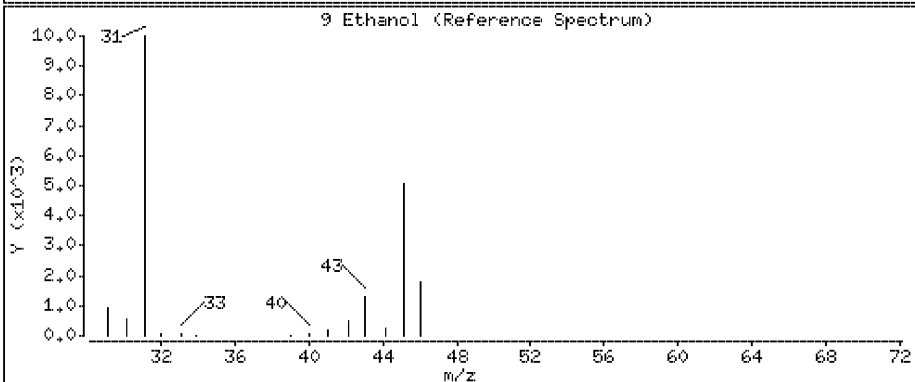
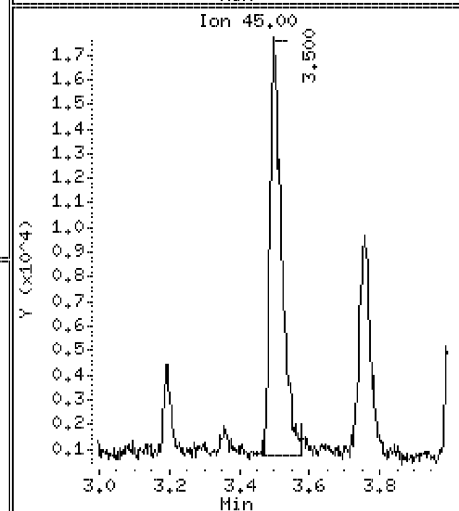
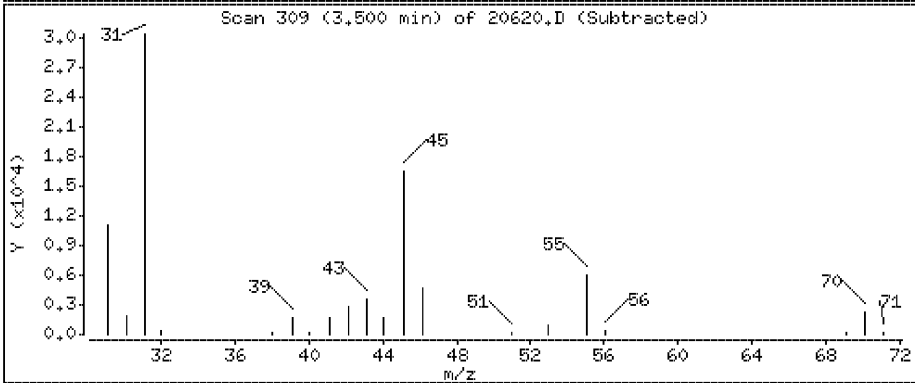
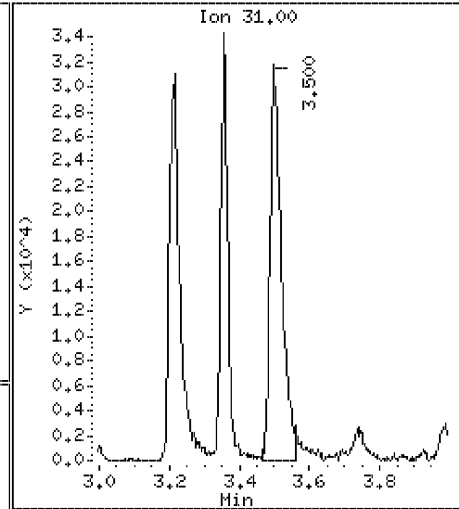
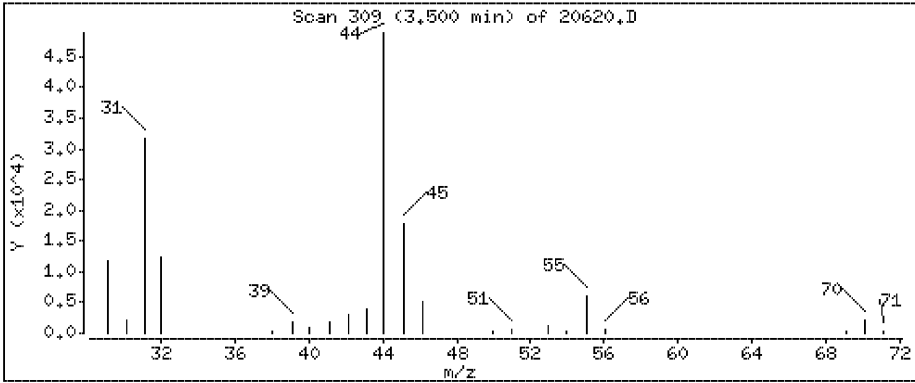
Operator: DR1

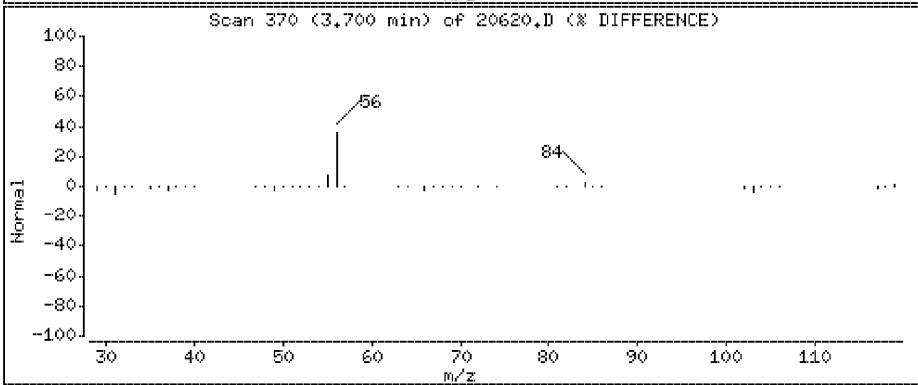
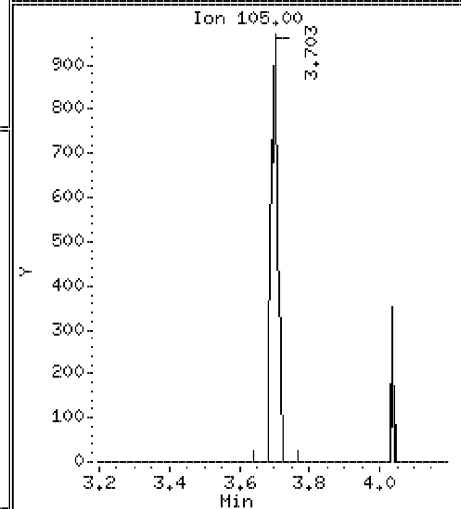
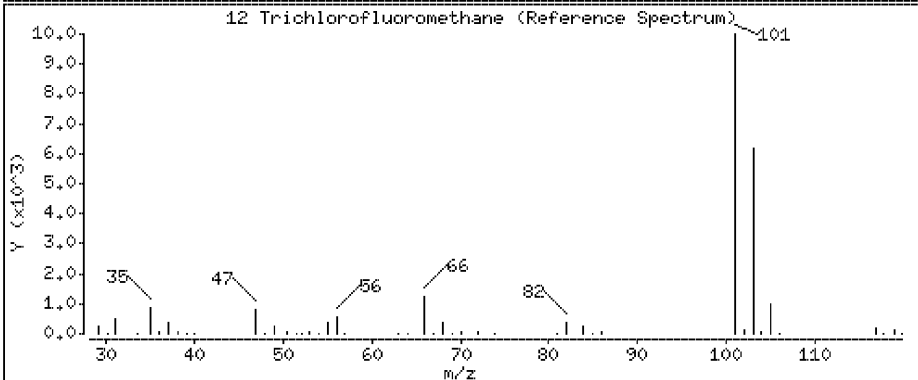
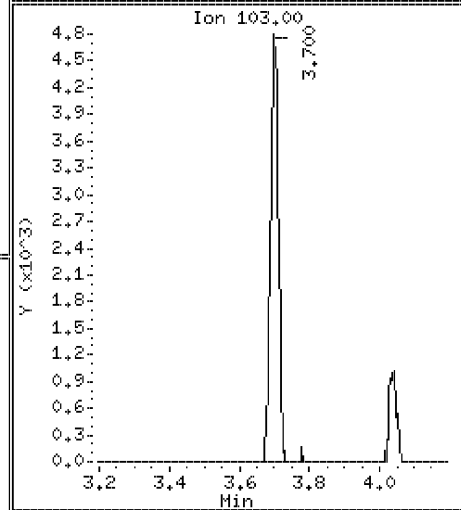
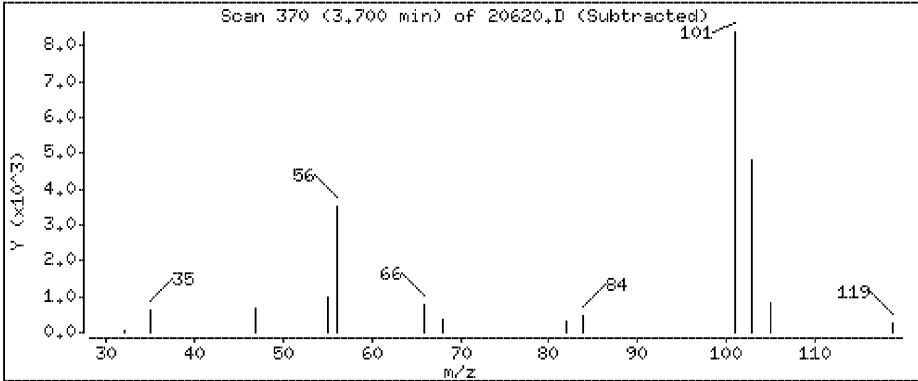
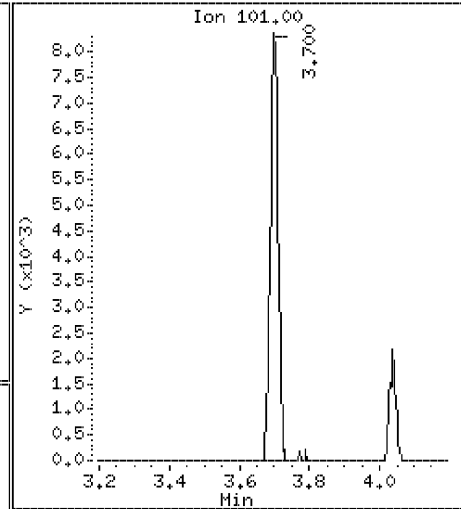
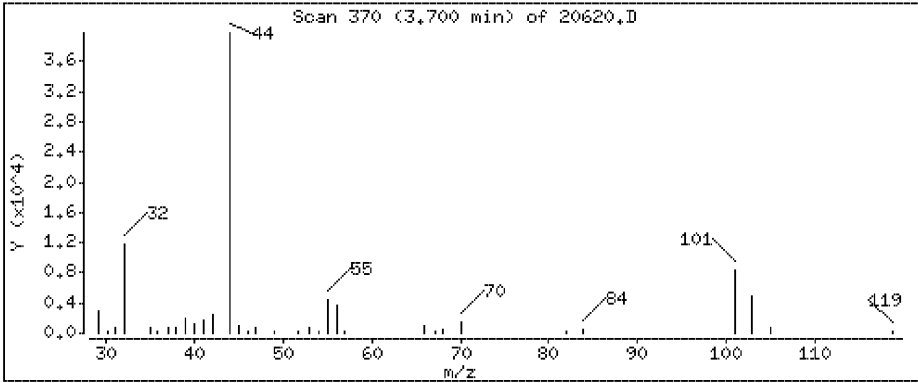
Column phase: J&W DB-5

Column diameter: 0,32

9 Ethanol

Concentration: 10,2 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20620.D

Date : 25-JUL-2013 22:27

Client ID:

Instrument: 10airD.i

Sample Info:

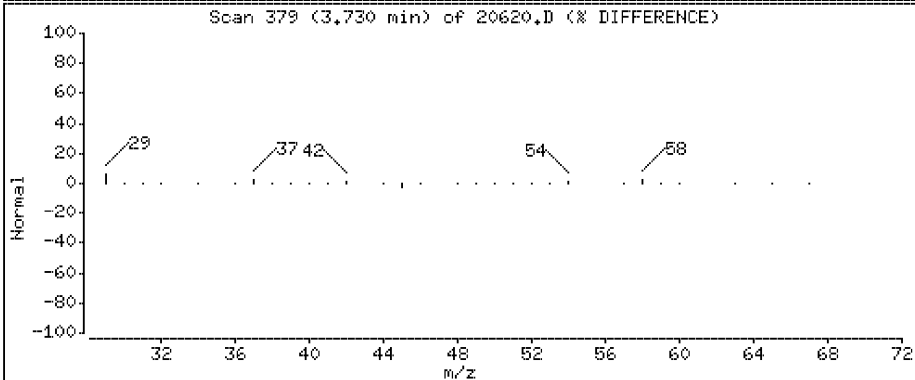
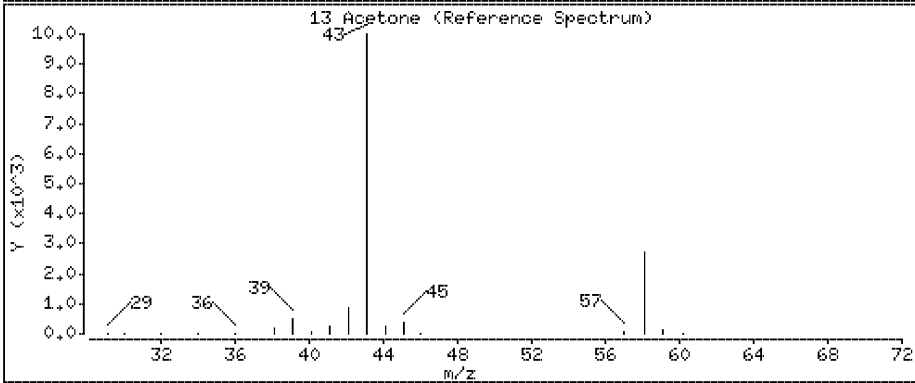
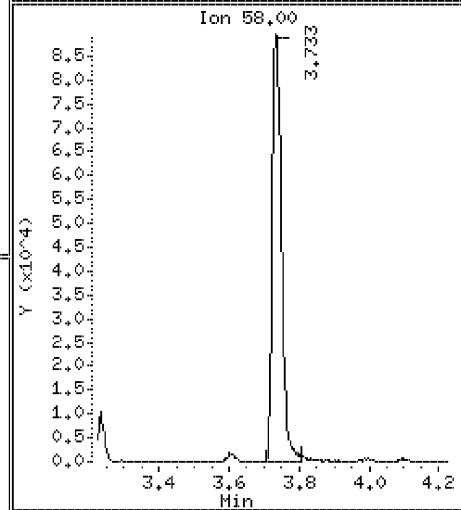
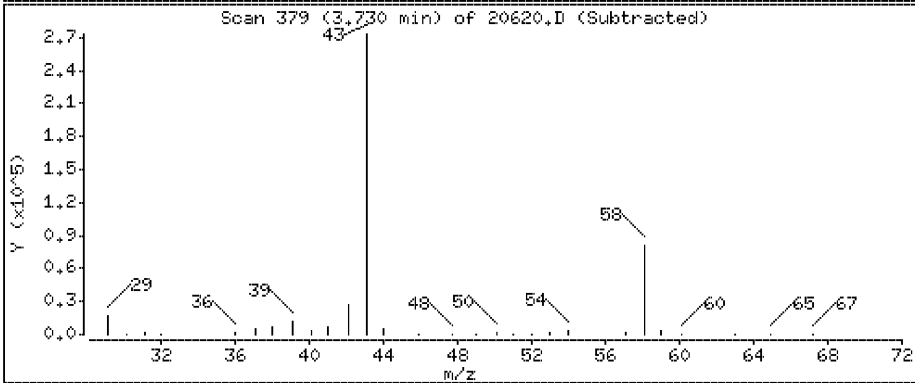
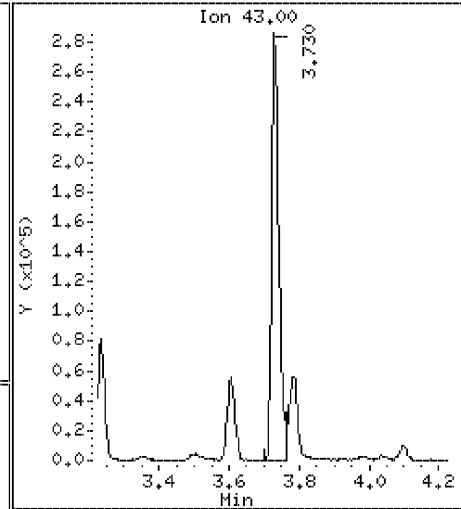
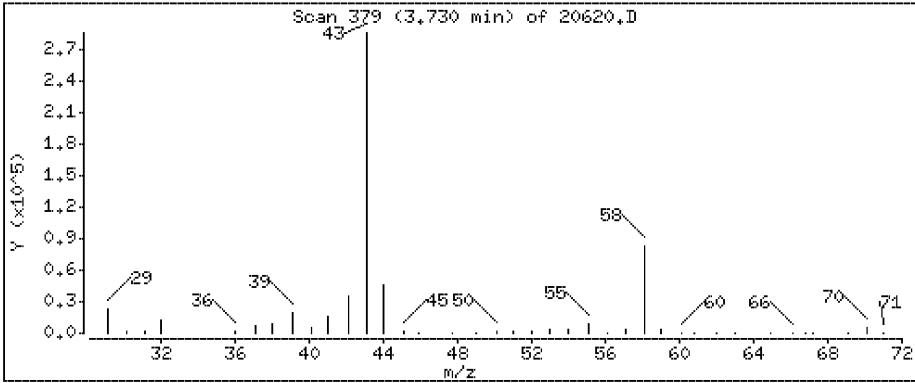
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

13 Acetone

Concentration: 12.6 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20620.D

Date : 25-JUL-2013 22:27

Client ID:

Instrument: 10airD.i

Sample Info:

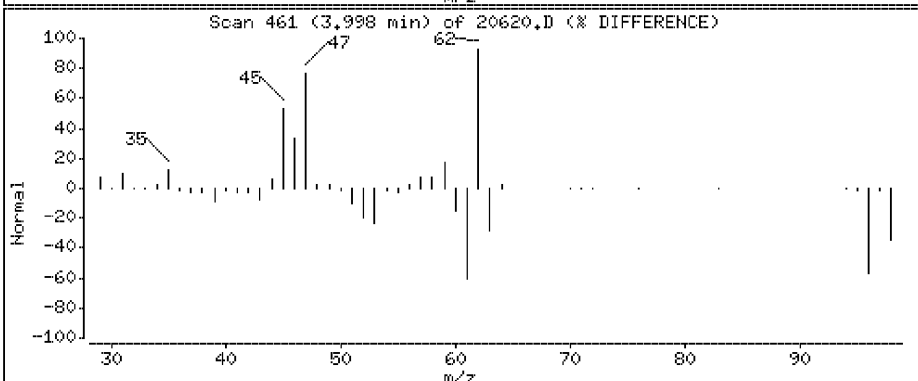
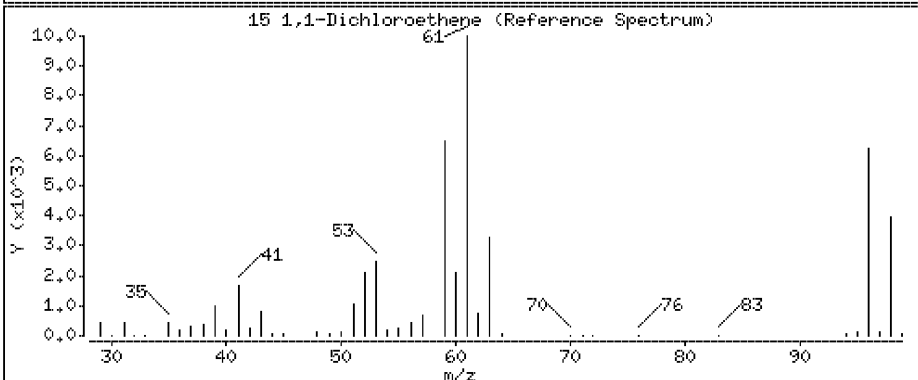
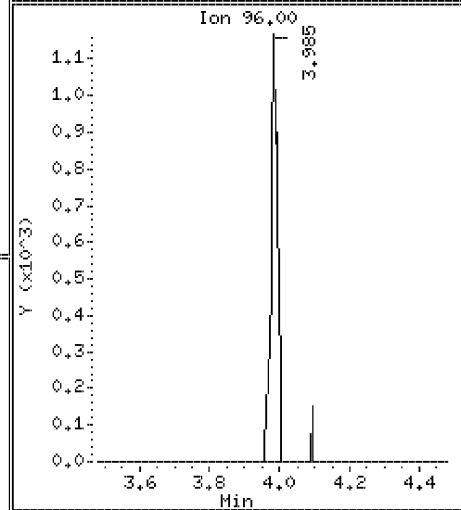
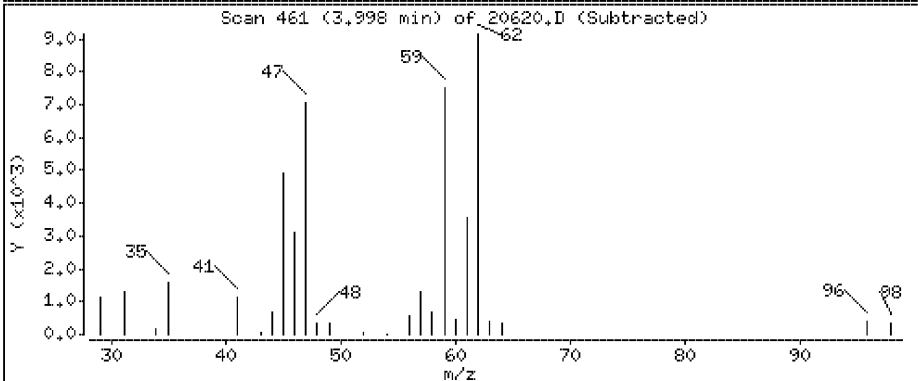
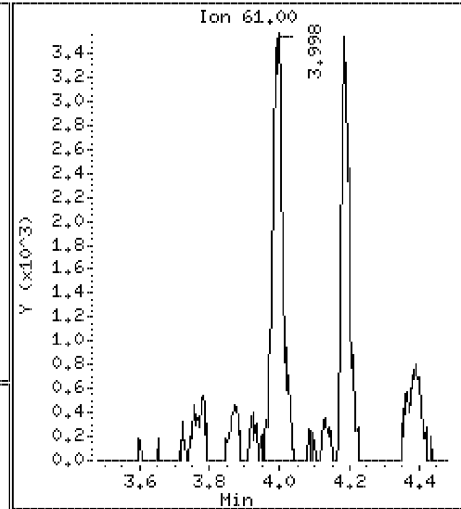
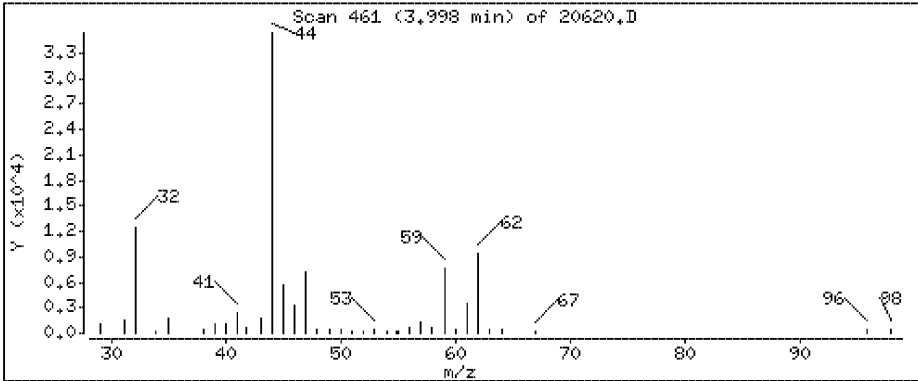
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

15 1,1-Dichloroethene

Concentration: 0.253 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20620.D

Date : 25-JUL-2013 22:27

Client ID:

Instrument: 10airD.i

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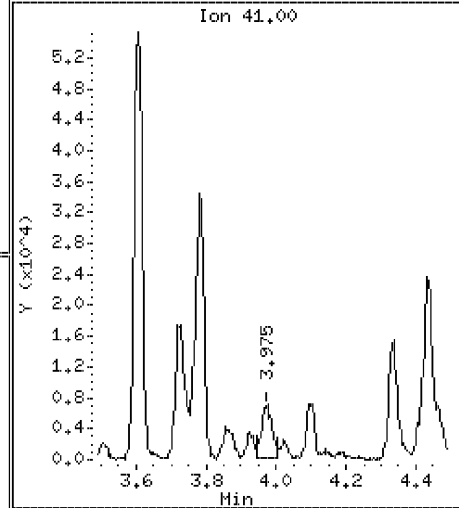
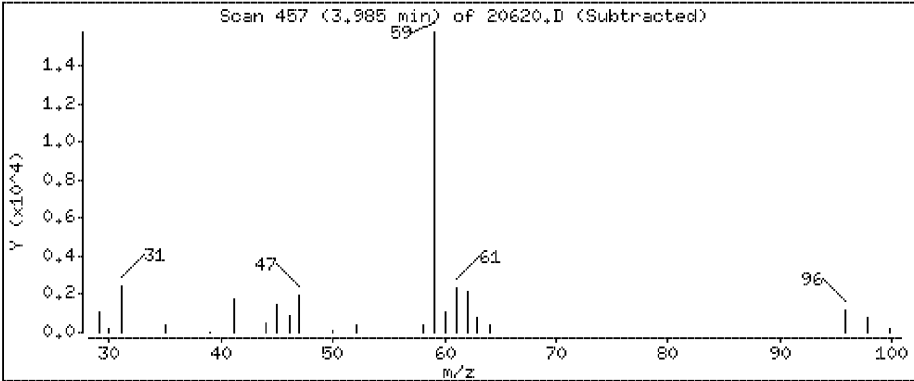
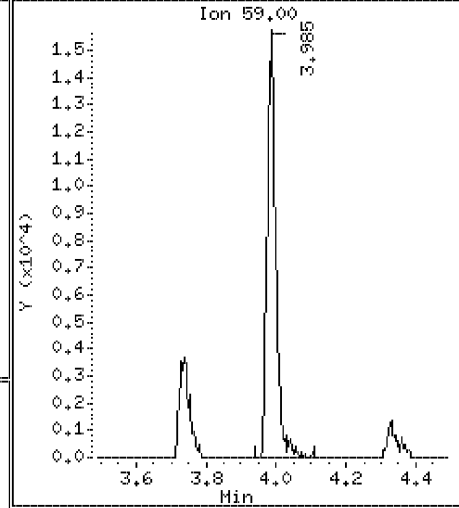
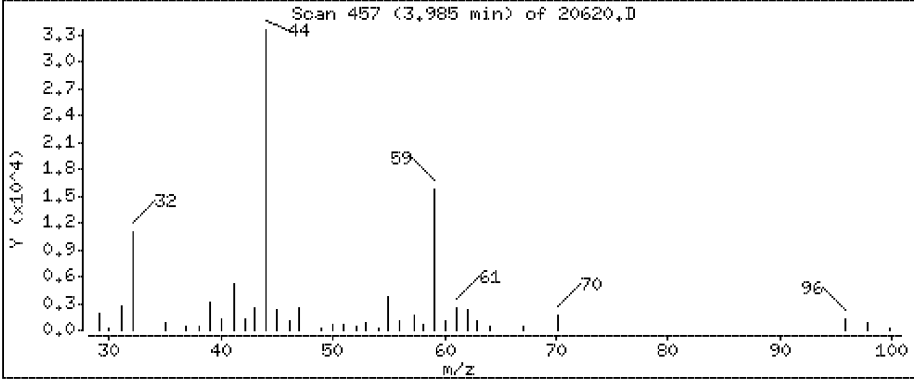
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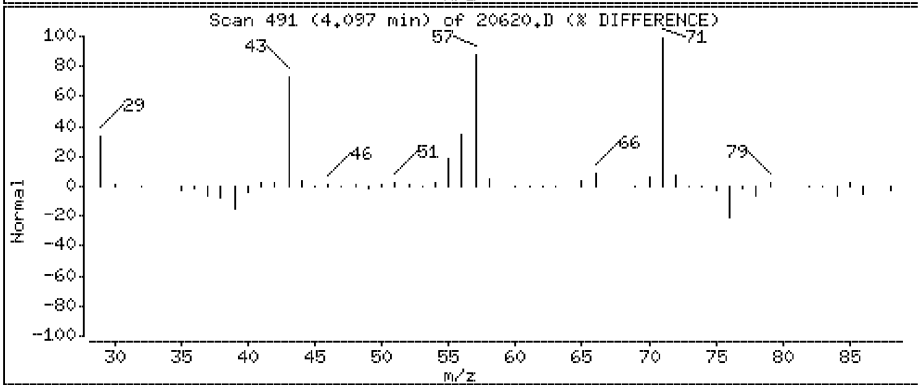
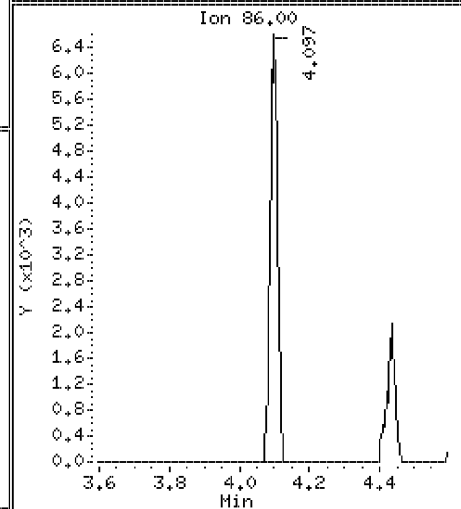
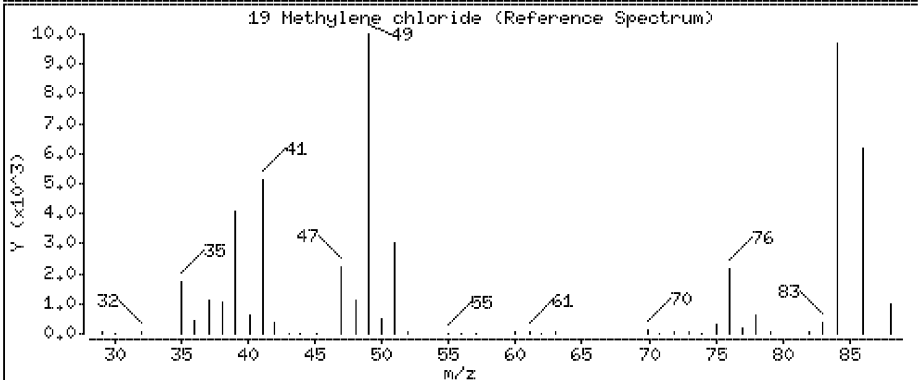
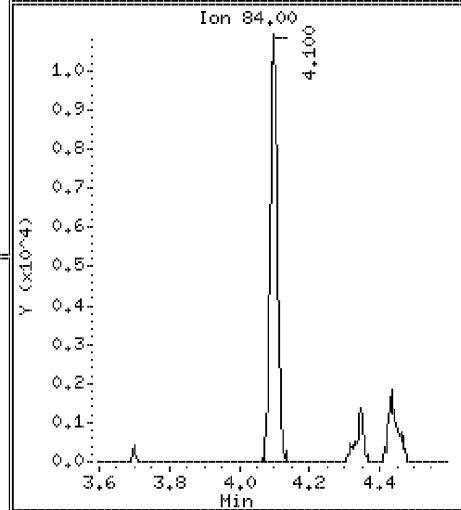
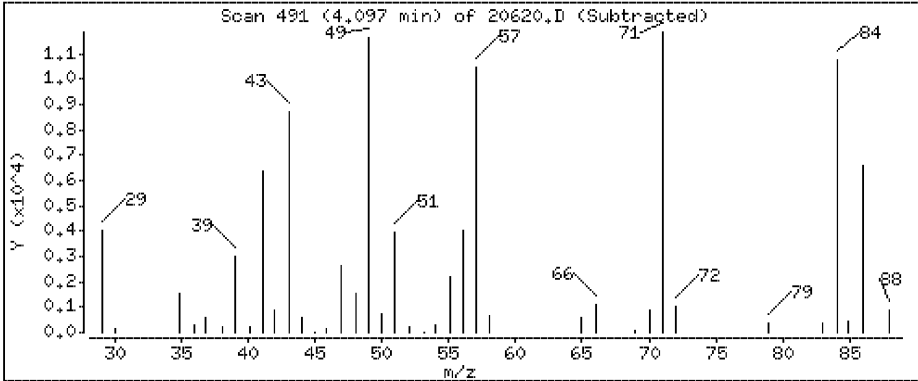
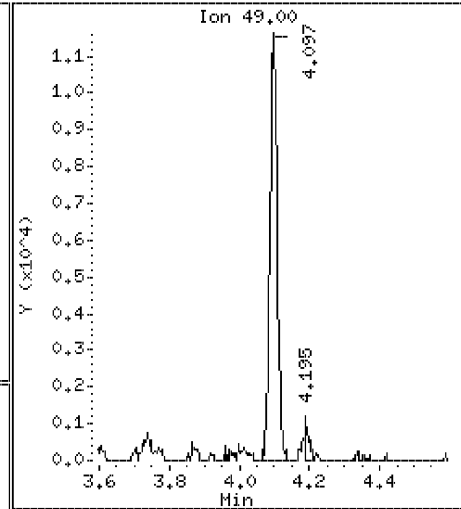
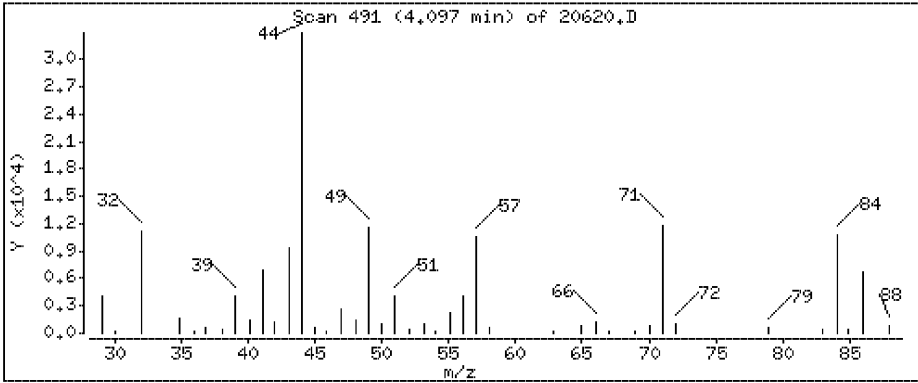
Column phase: J&W DB-5

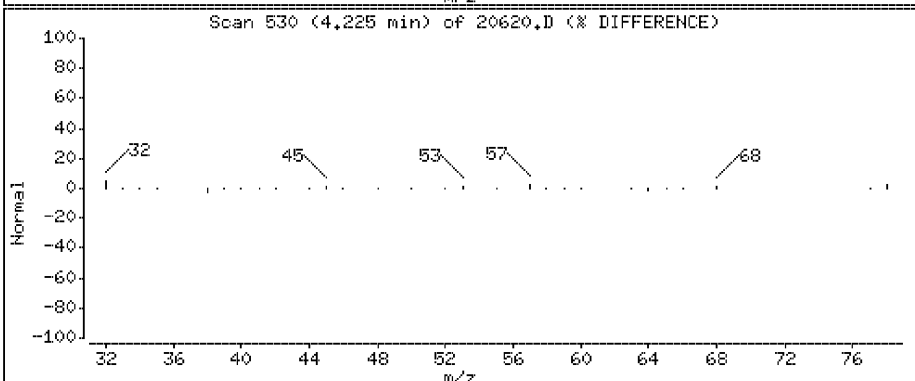
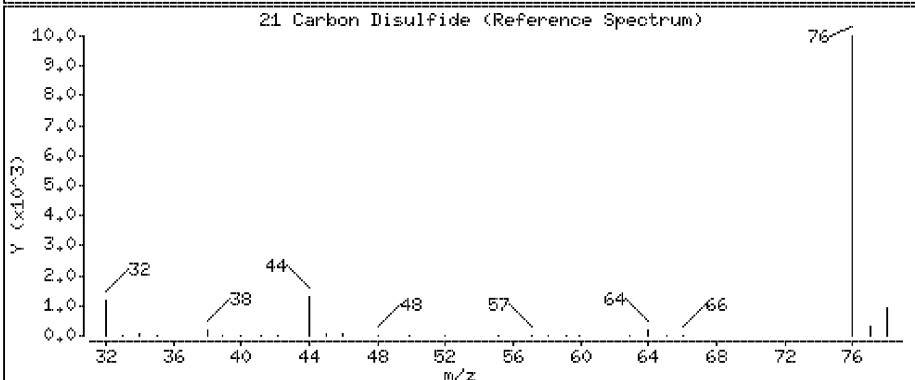
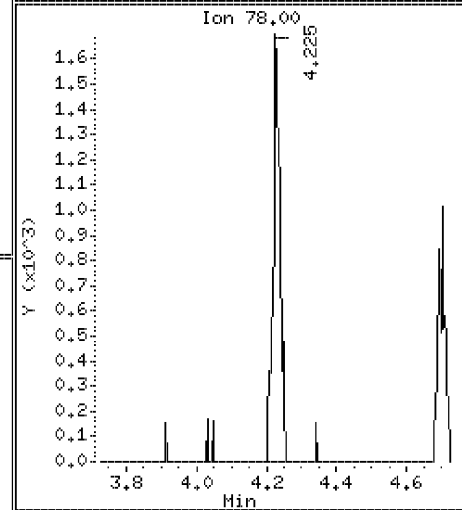
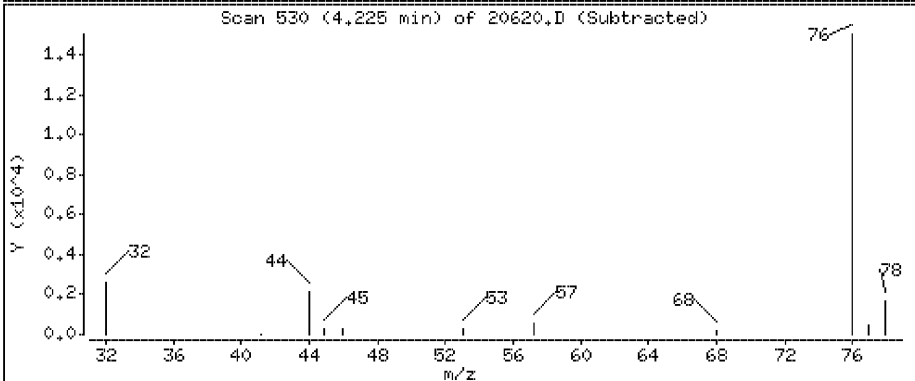
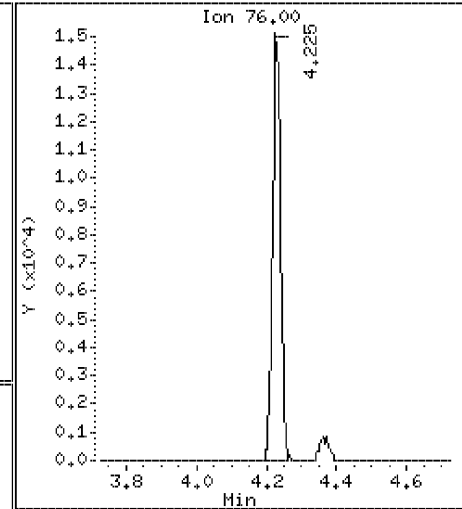
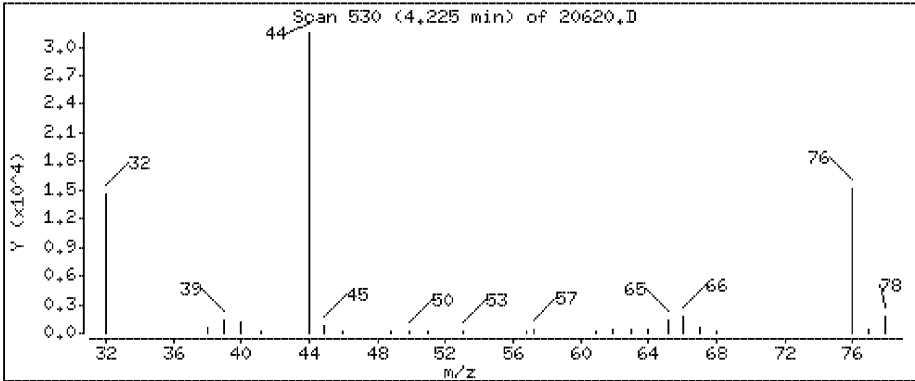
Column diameter: 0.32

17 Tert Butyl Alcohol

Concentration: 0.788 ppbv







Data File: \\192.168.10.12\chem\10airD,i\072513,b\20620.D

Date : 25-JUL-2013 22:27

Client ID:

Instrument: 10airD,i

Sample Info:

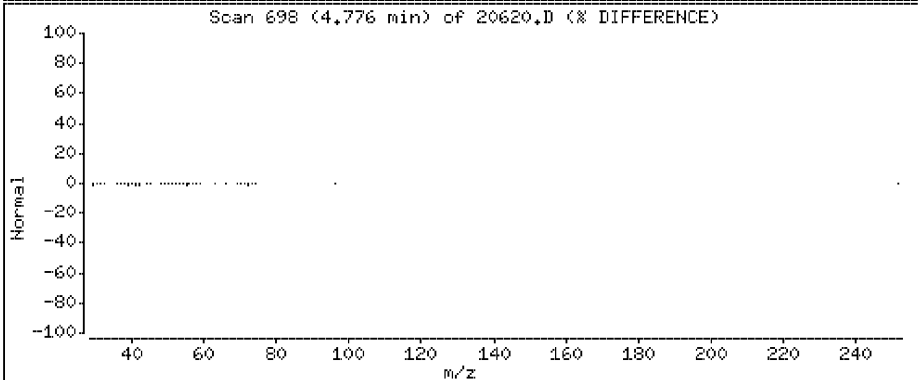
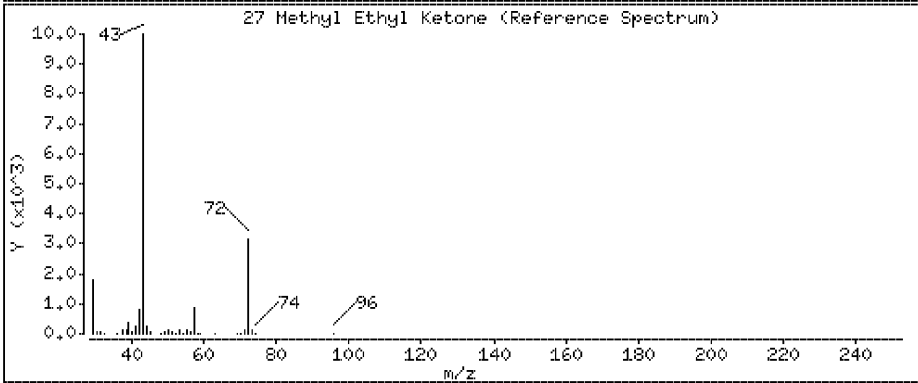
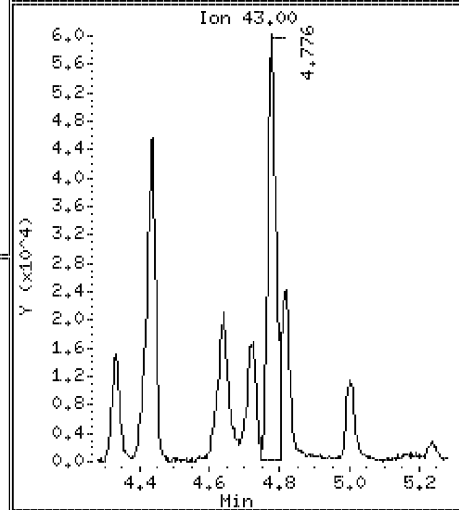
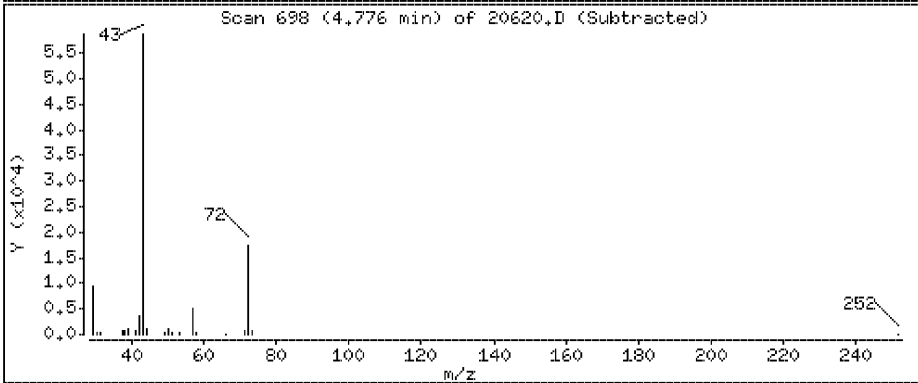
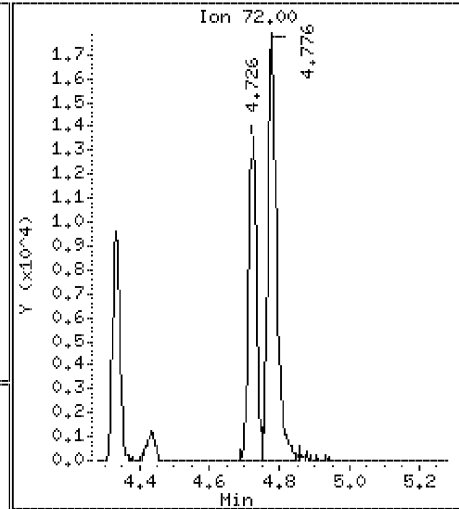
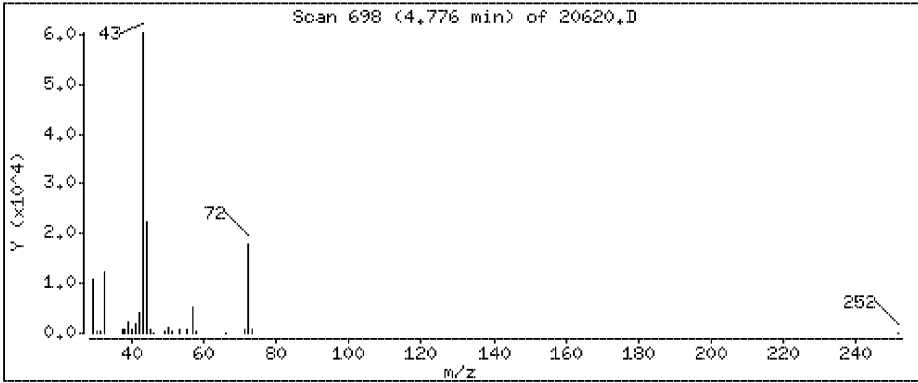
Operator: DR1

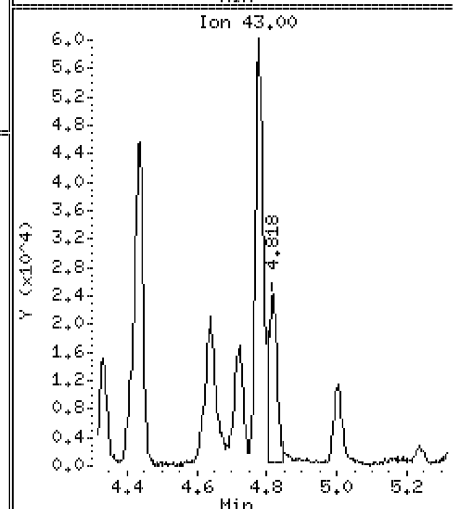
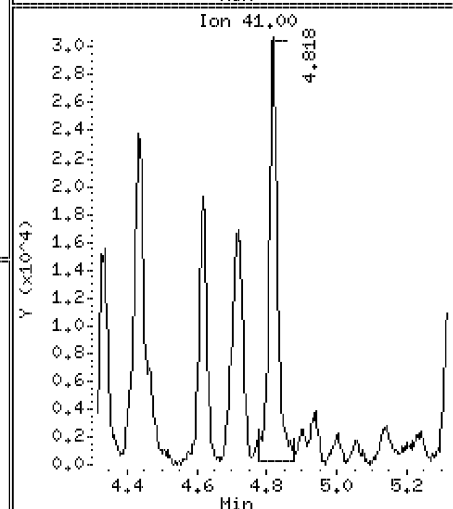
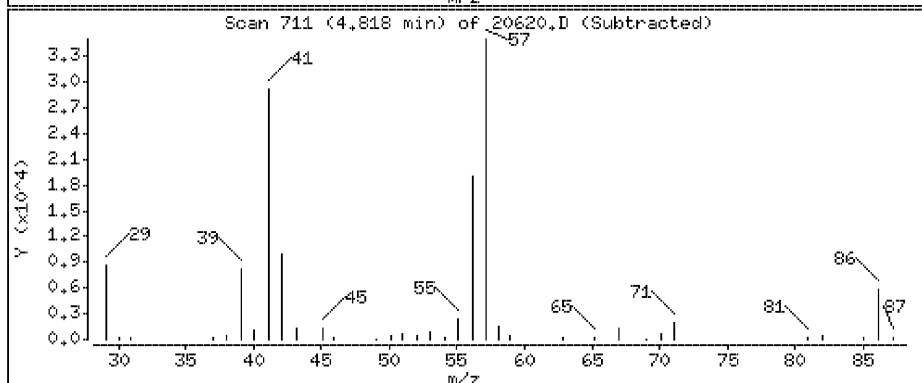
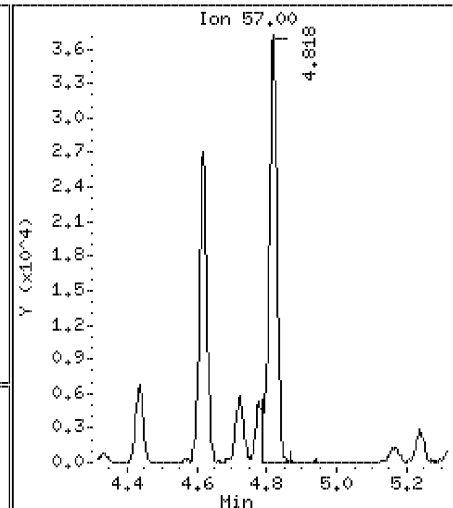
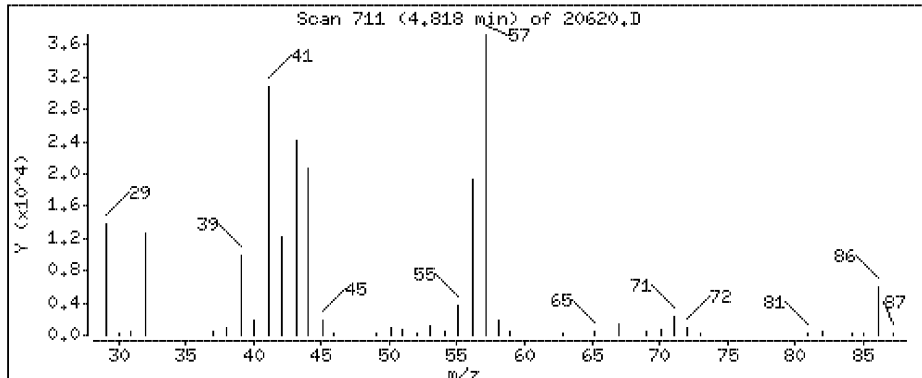
Column phase: J&W DB-5

Column diameter: 0.32

27 Methyl Ethyl Ketone

Concentration: 4.18 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20620.D

Date : 25-JUL-2013 22:27

Client ID:

Instrument: 10airD.i

Sample Info:

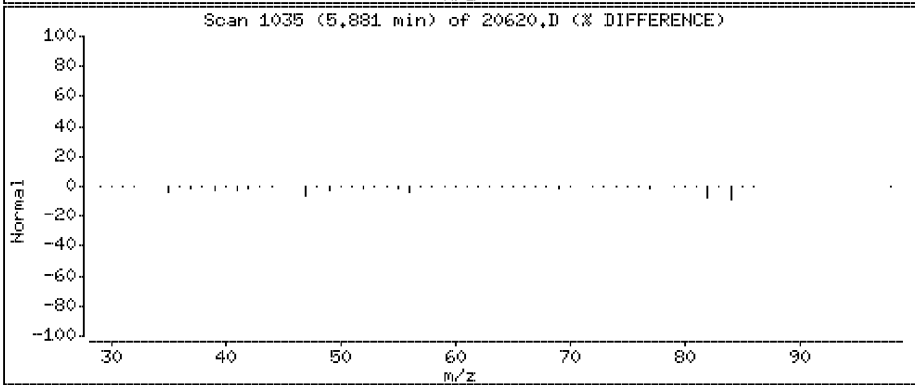
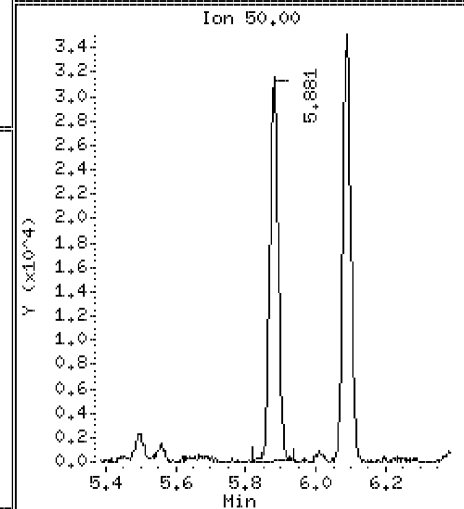
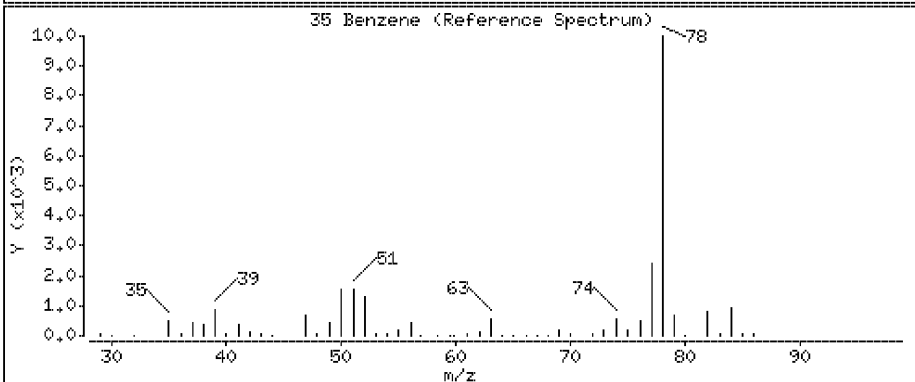
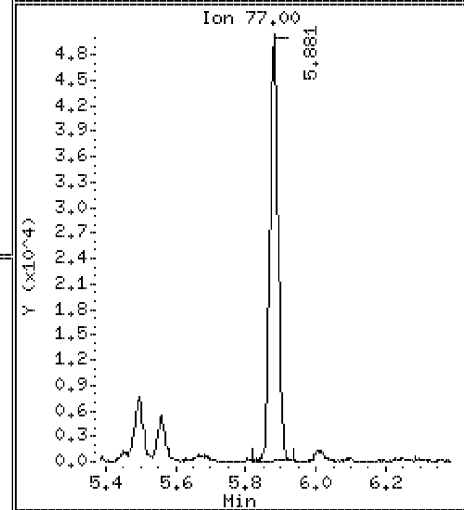
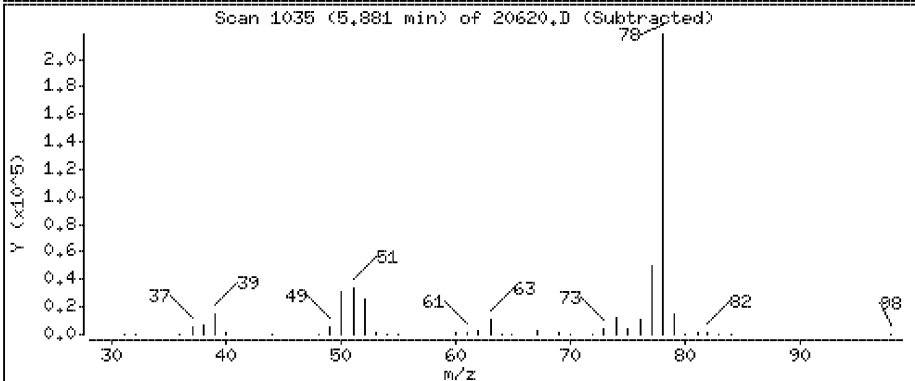
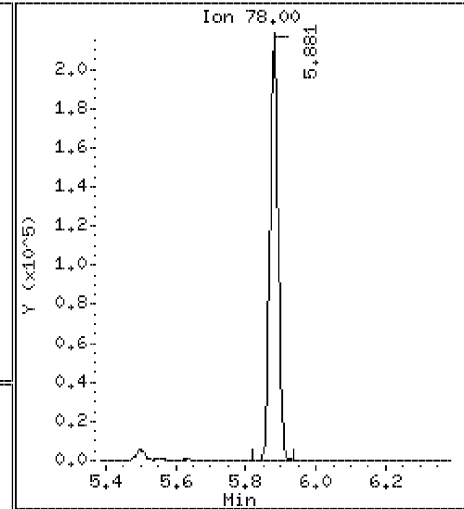
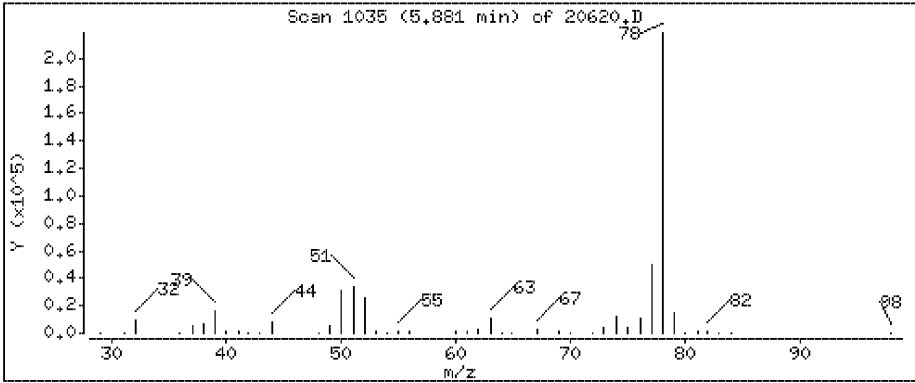
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

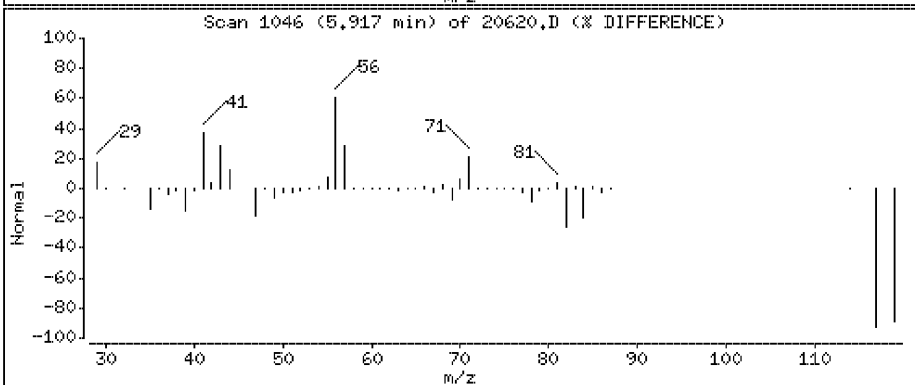
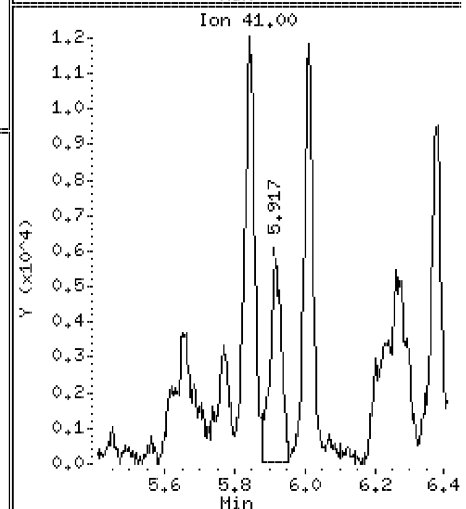
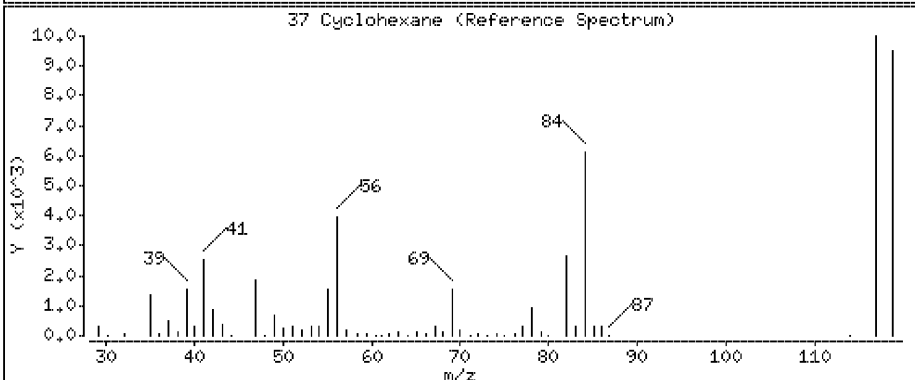
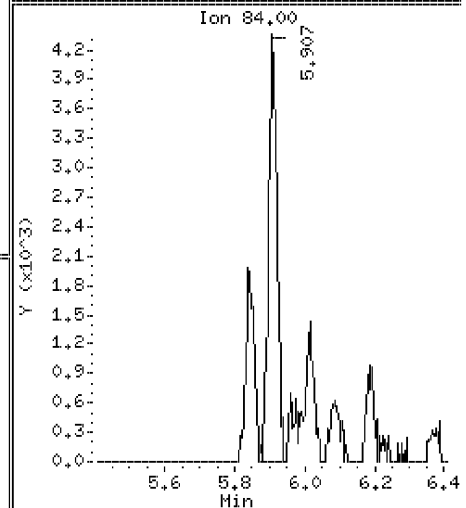
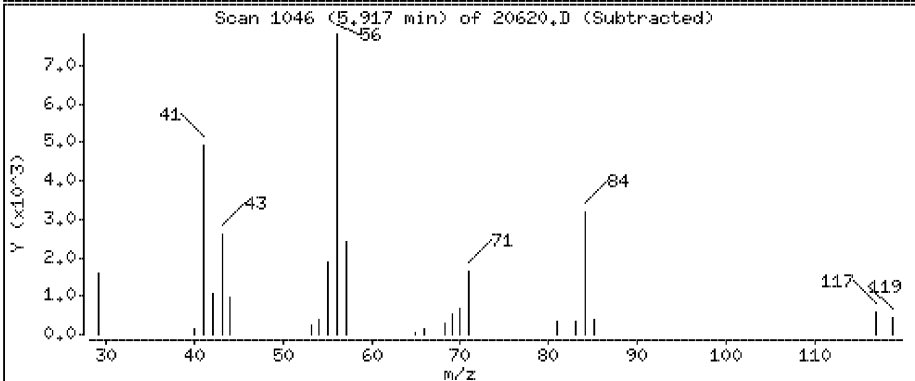
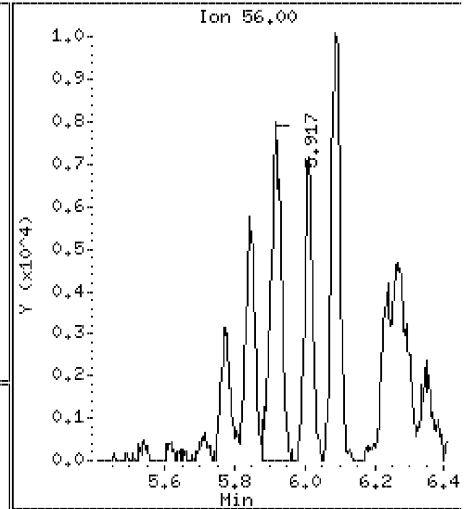
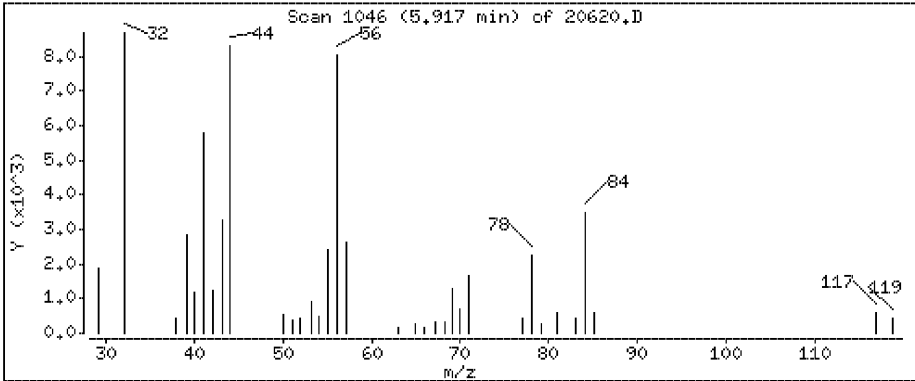
35 Benzene

Concentration: 8.25 ppbv



37 Cyclohexane

Concentration: 1.63 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20620.D

Date : 25-JUL-2013 22:27

Client ID:

Instrument: 10airD.i

Sample Info:

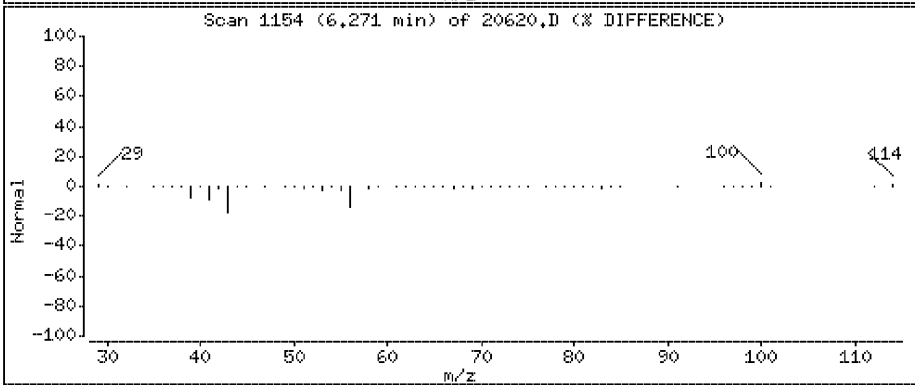
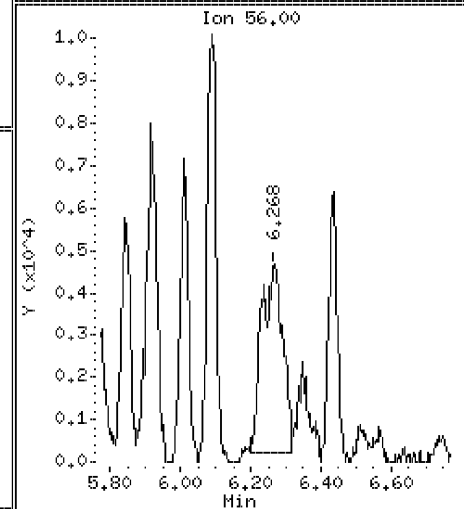
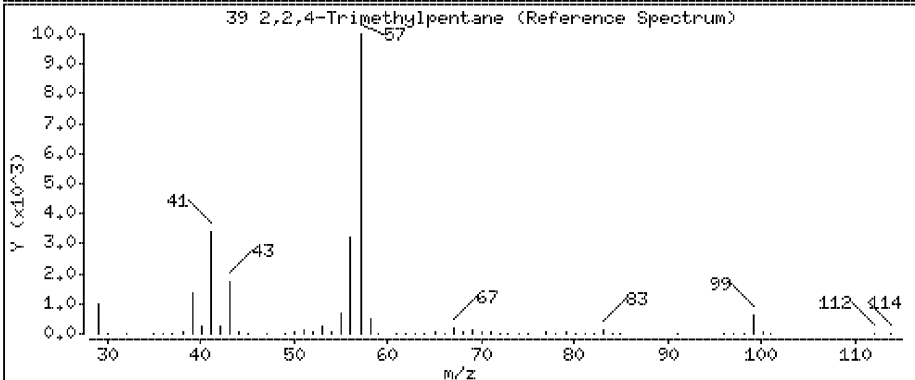
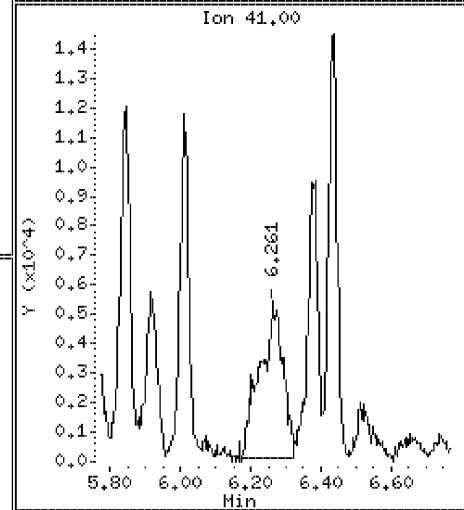
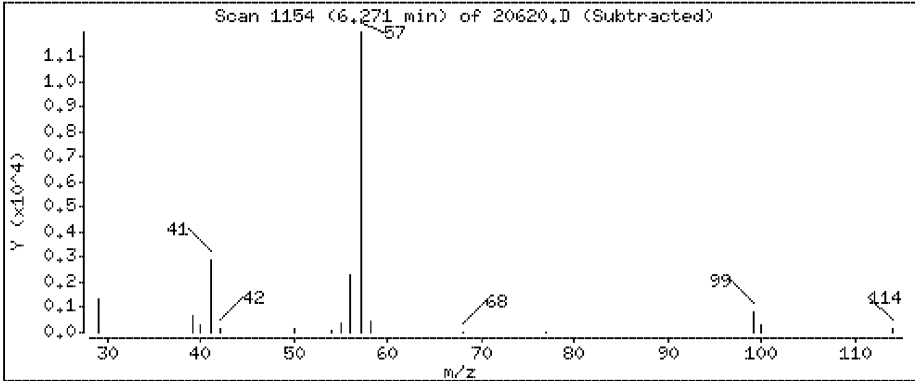
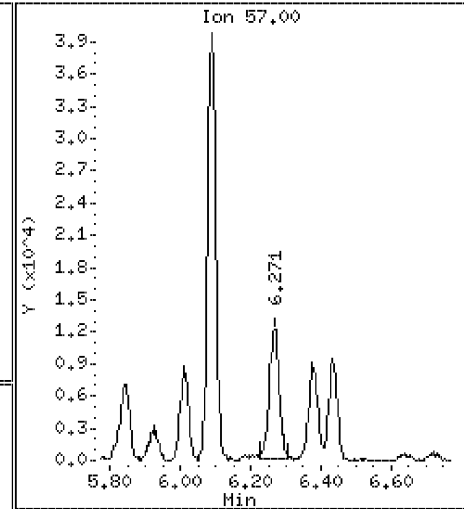
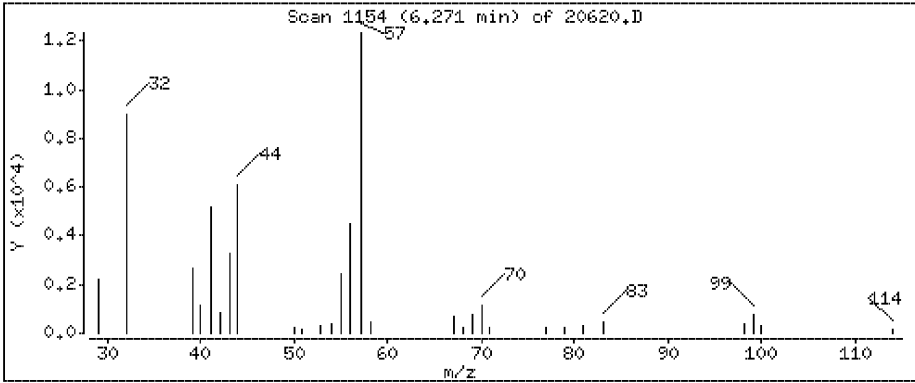
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

39 2,2,4-Trimethylpentane

Concentration: 1.04 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20620.D

Date : 25-JUL-2013 22:27

Client ID:

Instrument: 10airD.i

Sample Info:

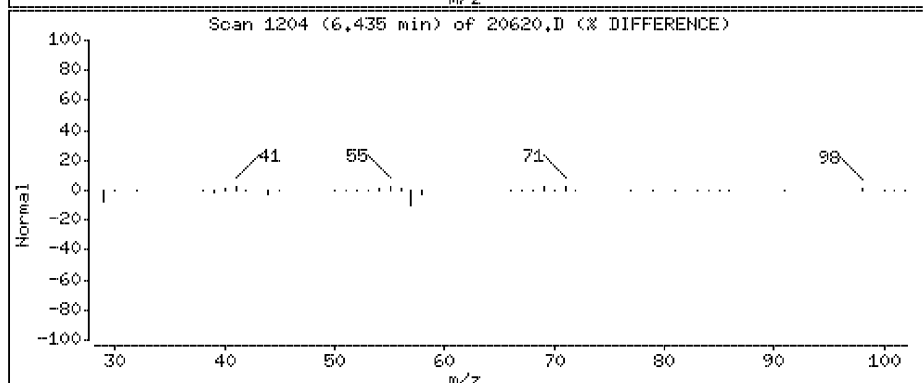
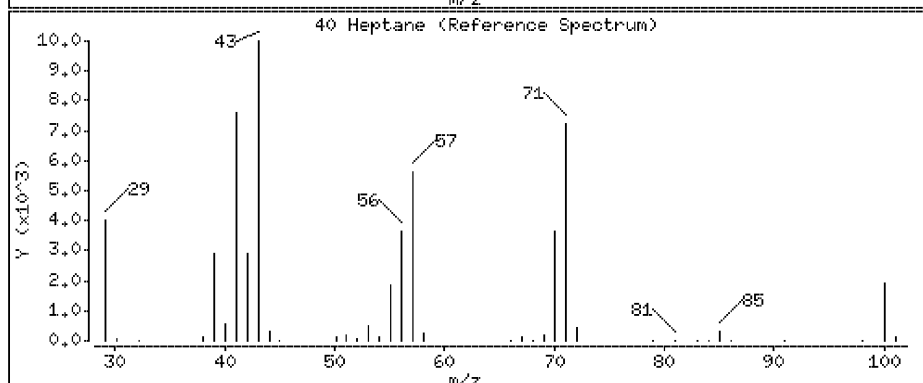
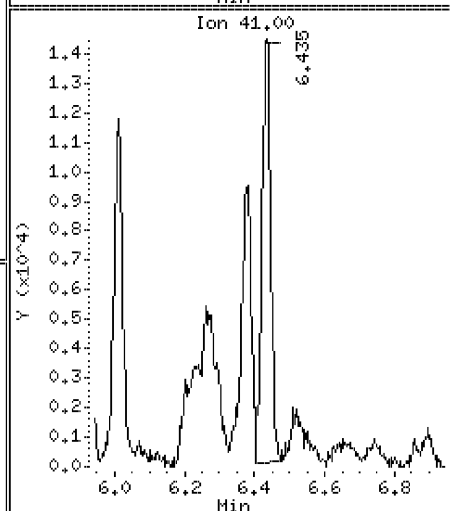
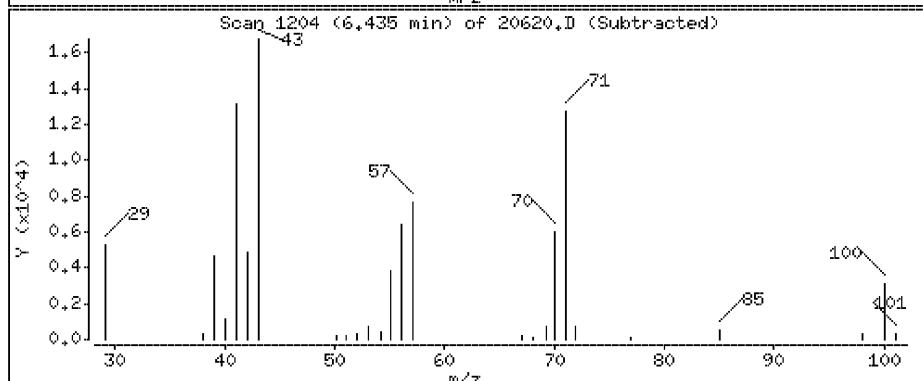
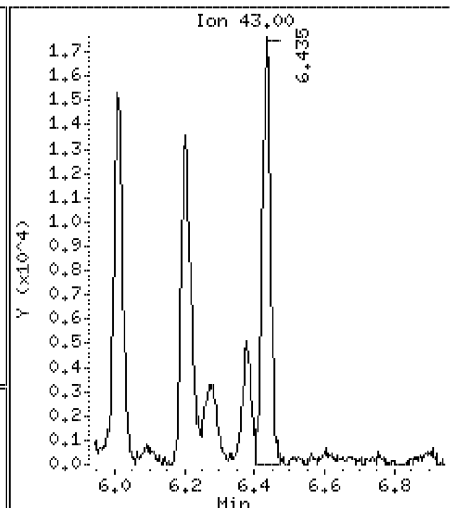
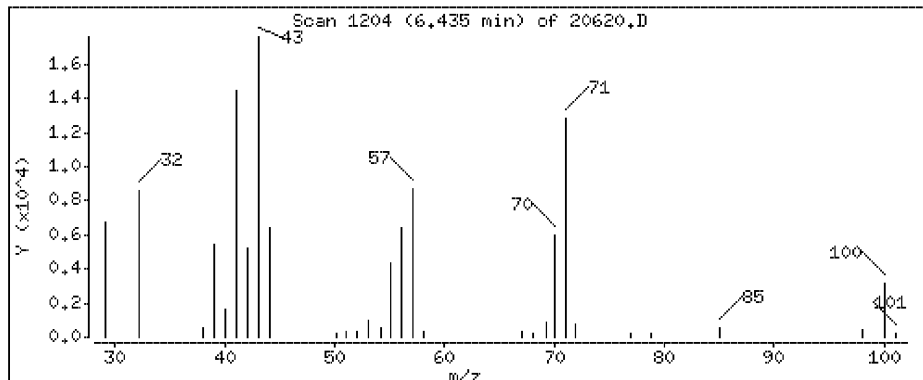
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

40 Heptane

Concentration: 2.29 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20620.D

Date : 25-JUL-2013 22:27

Client ID:

Instrument: 10airD.i

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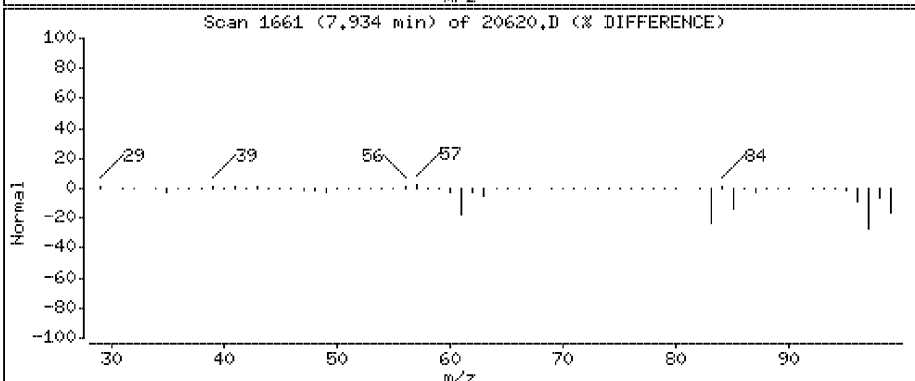
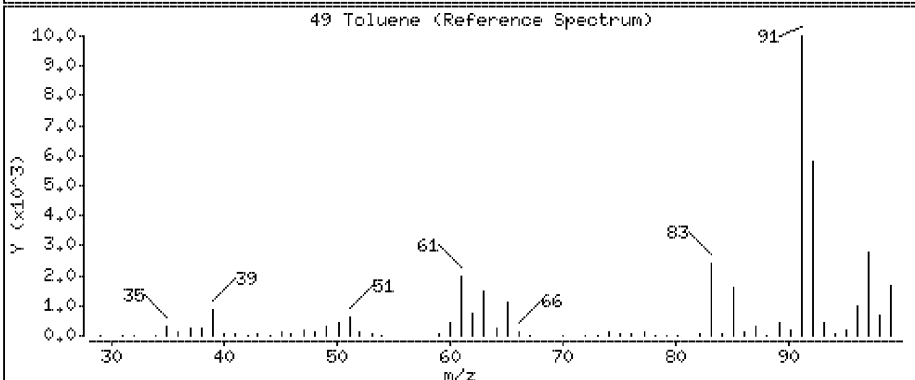
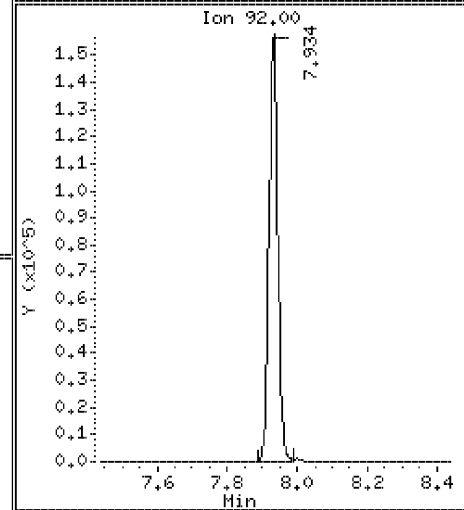
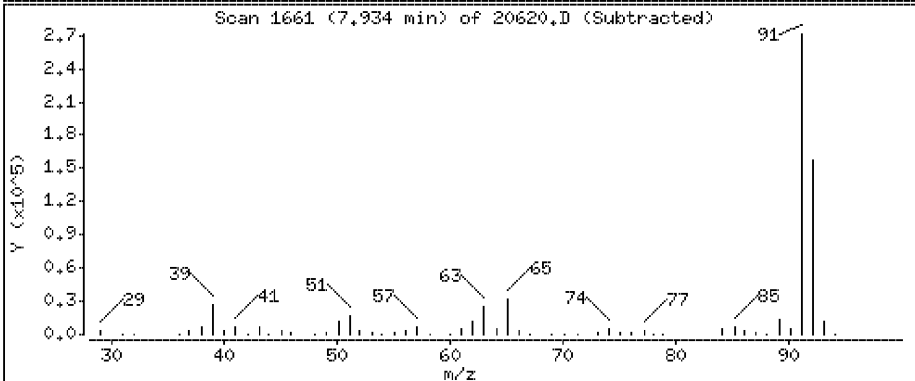
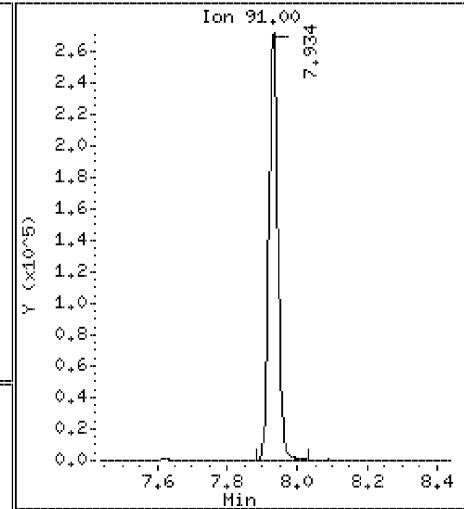
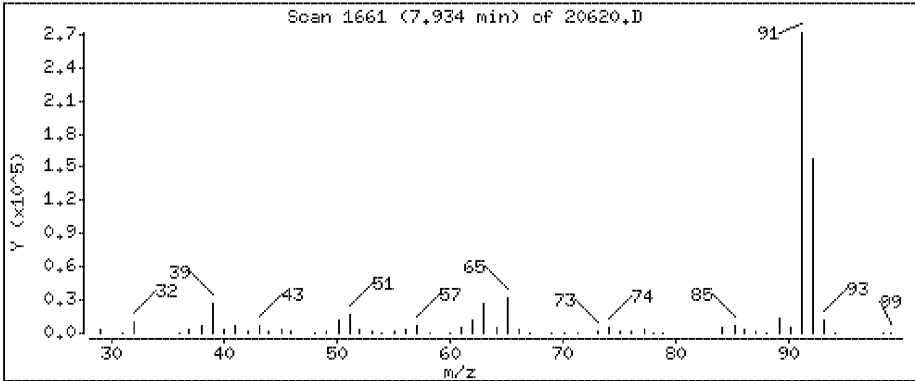
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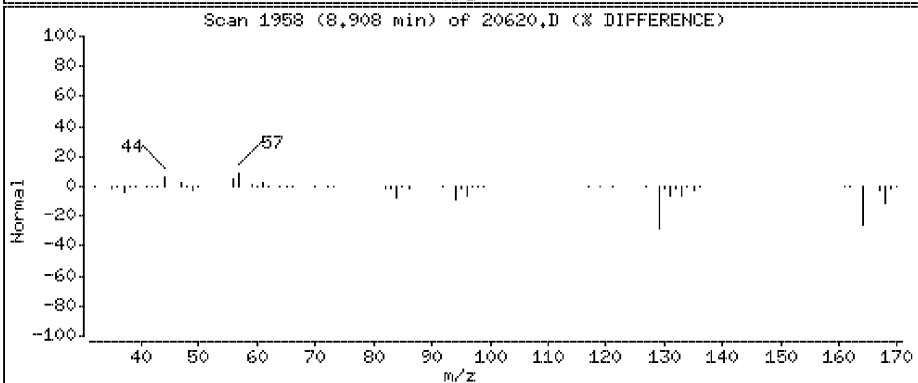
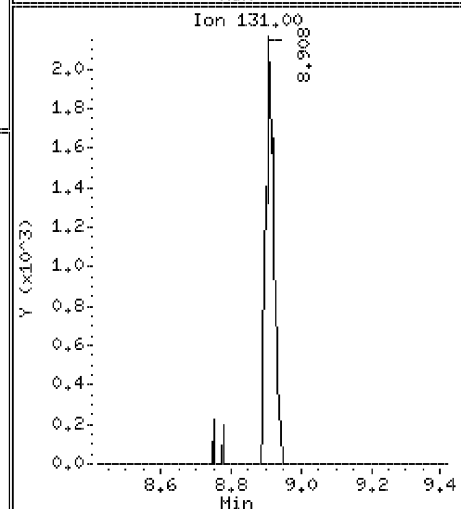
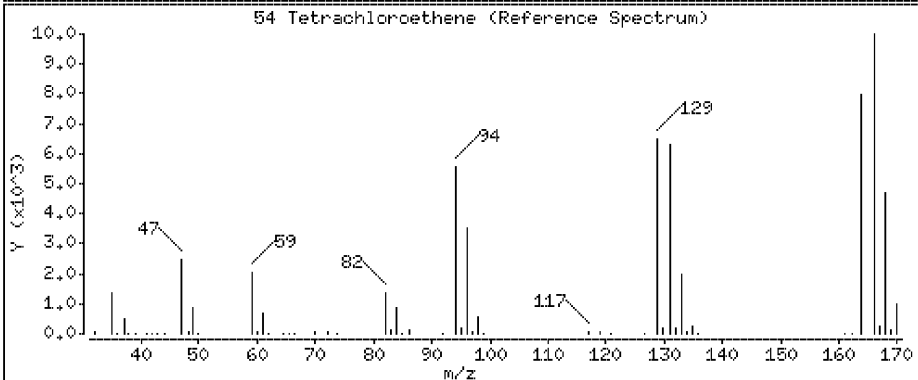
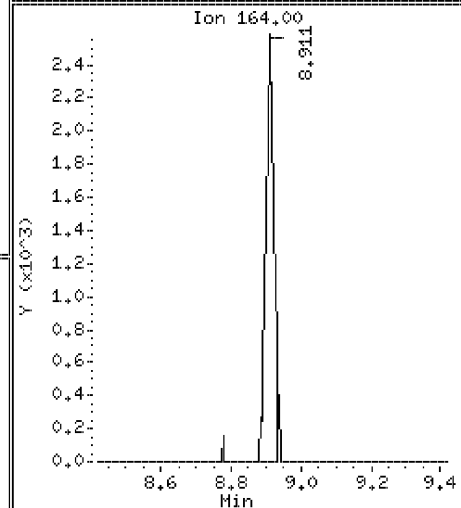
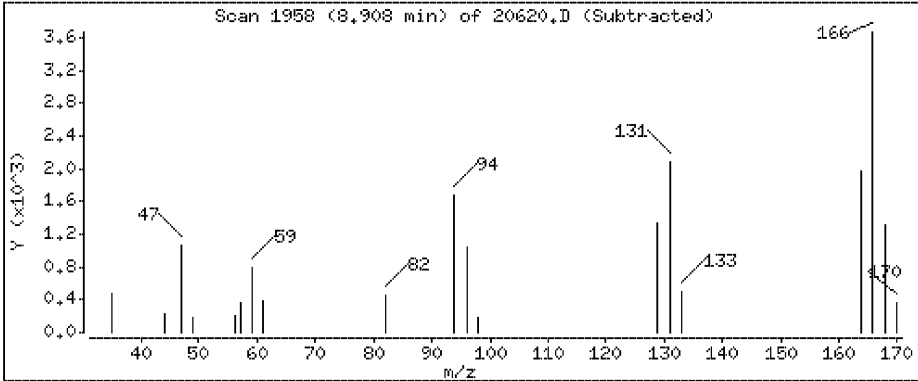
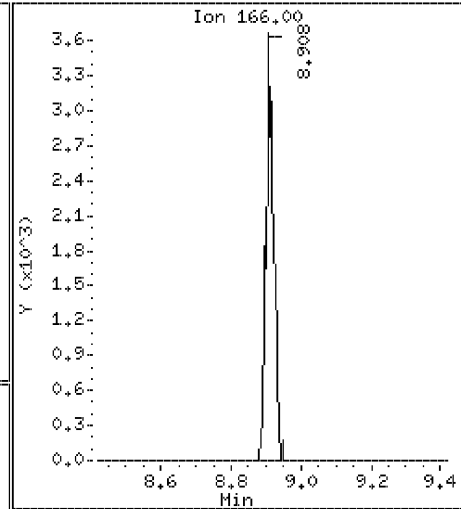
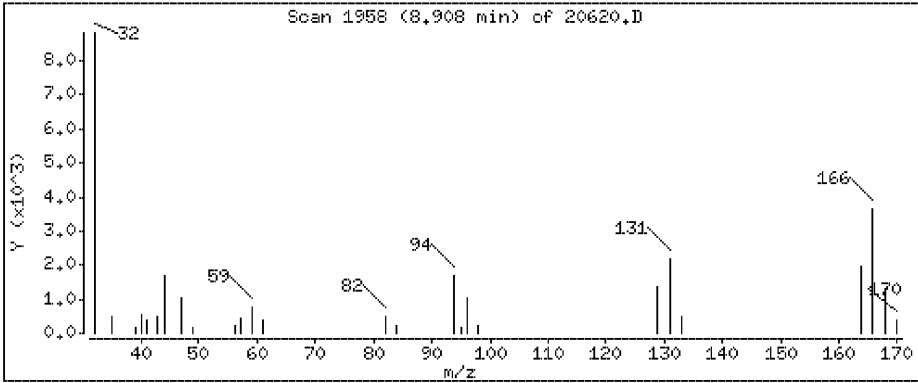
Column phase: J&W DB-5

Column diameter: 0.32

49 Toluene

Concentration: 8.69 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20620.D

Date : 25-JUL-2013 22:27

Client ID:

Instrument: 10airD.i

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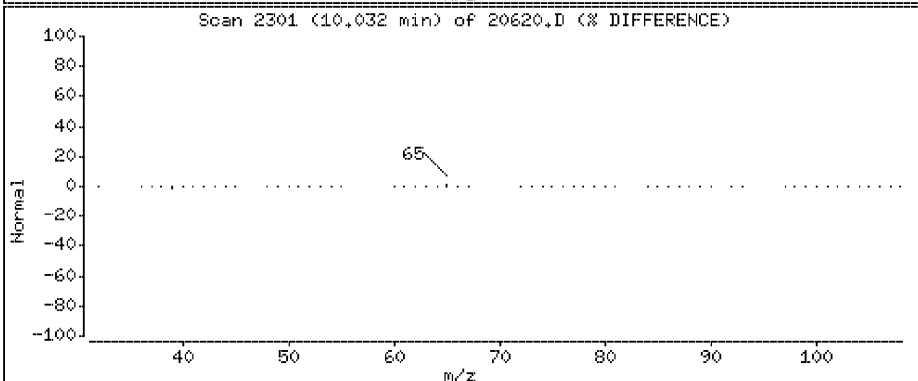
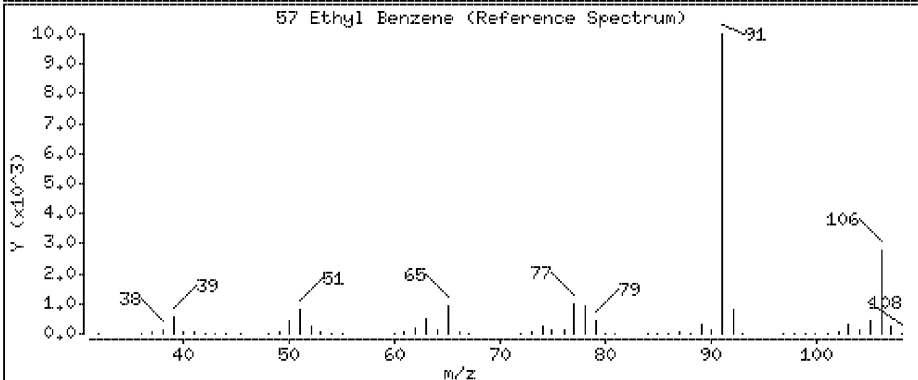
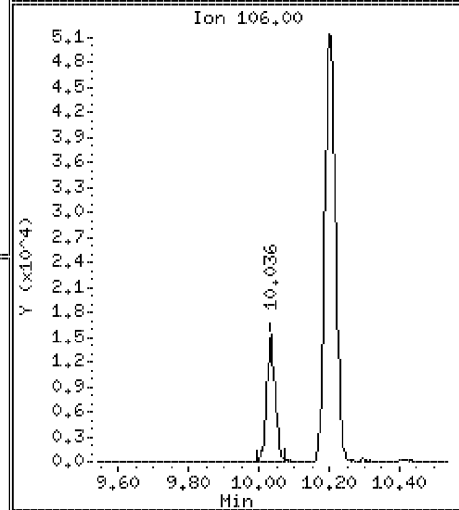
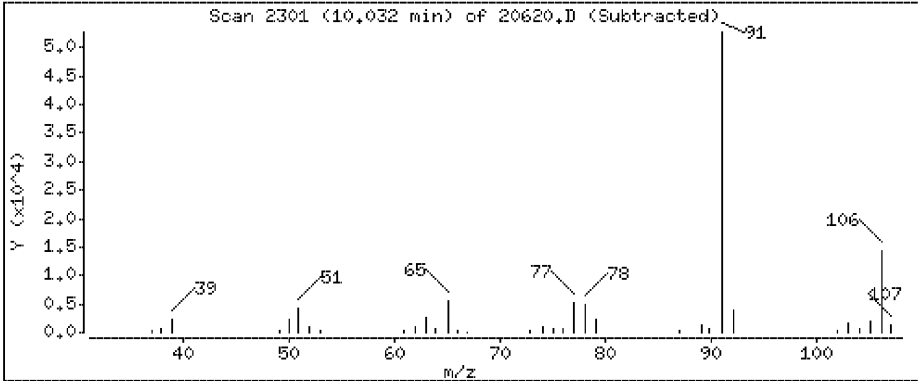
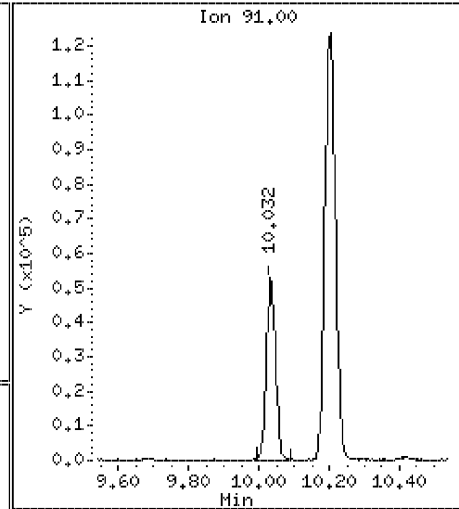
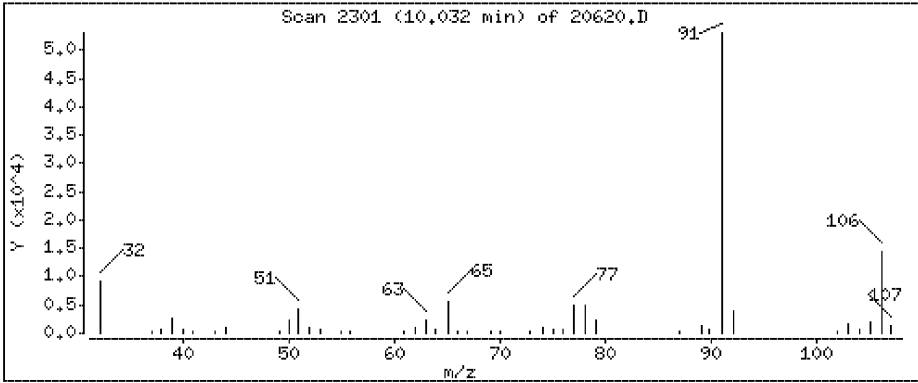
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

57 Ethyl Benzene

Concentration: 1.82 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20620.D

Date : 25-JUL-2013 22:27

Client ID:

Instrument: 10airD.i

Sample Info:

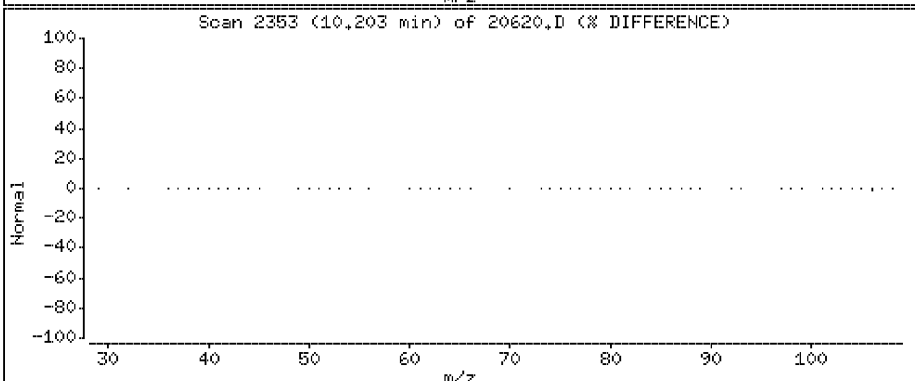
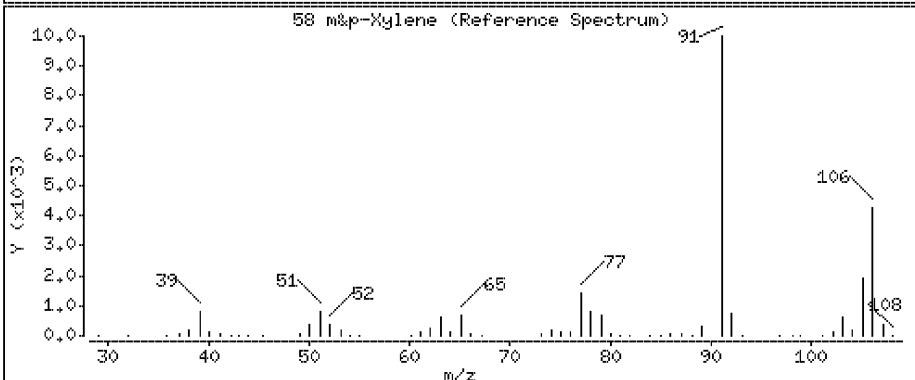
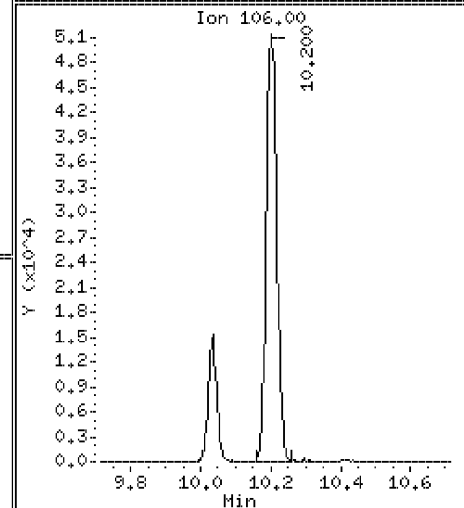
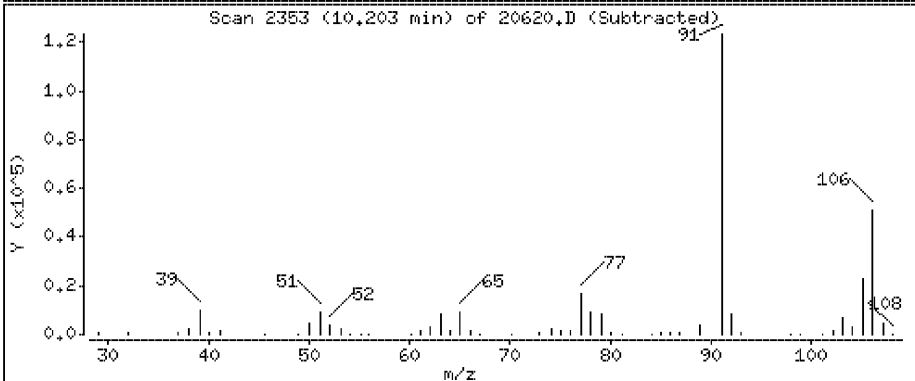
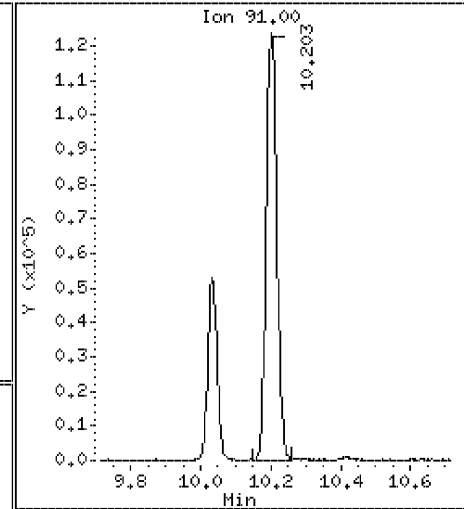
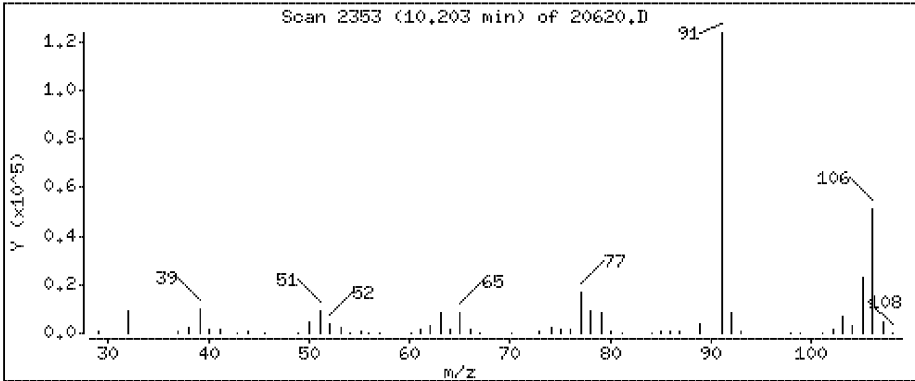
Operator: DR1

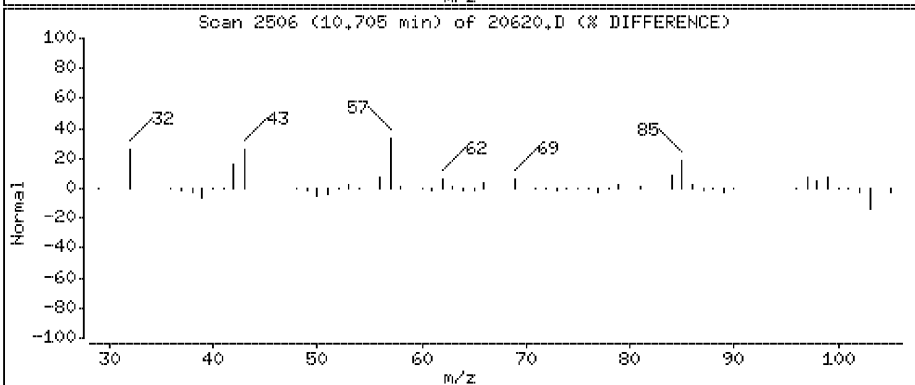
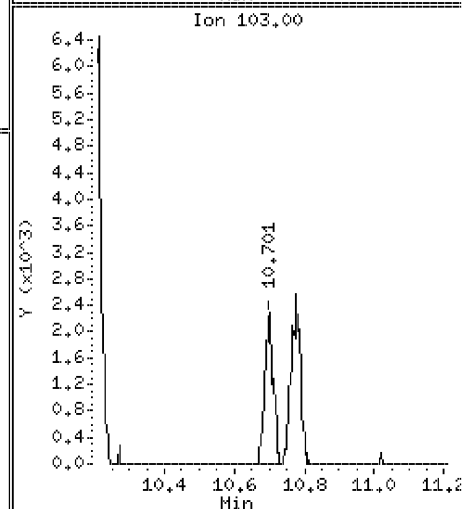
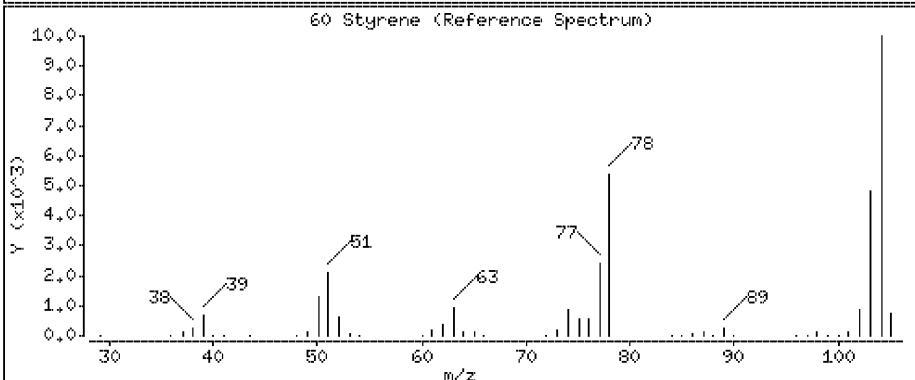
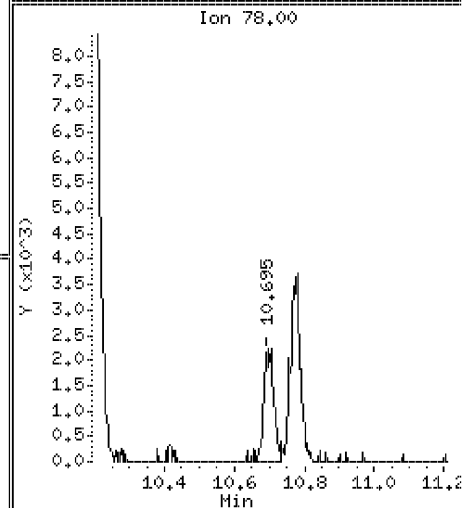
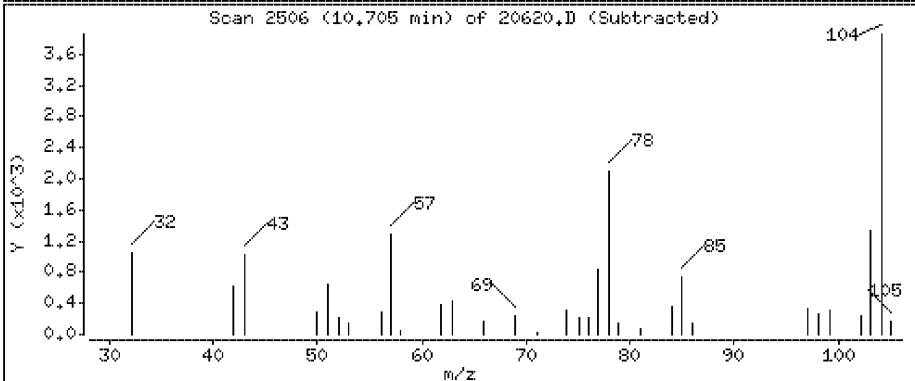
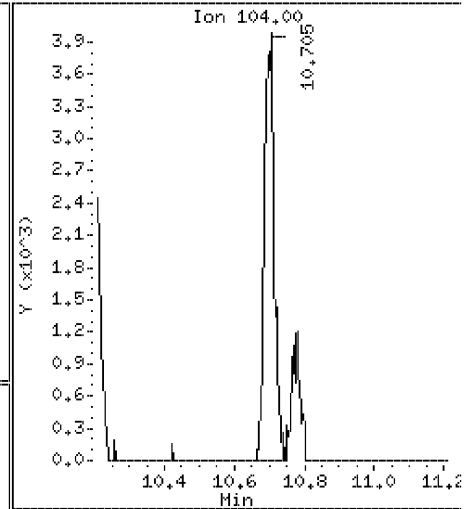
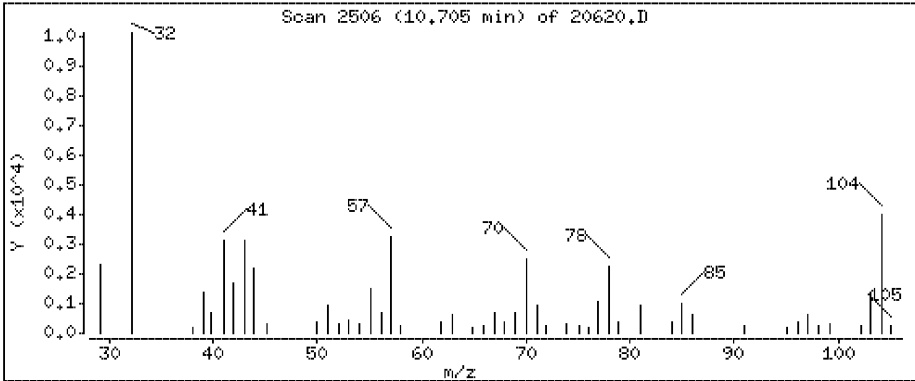
Column phase: J&W DB-5

Column diameter: 0.32

58 m&p-Xylene

Concentration: 5.01 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20620.D

Date : 25-JUL-2013 22:27

Client ID:

Instrument: 10airD.i

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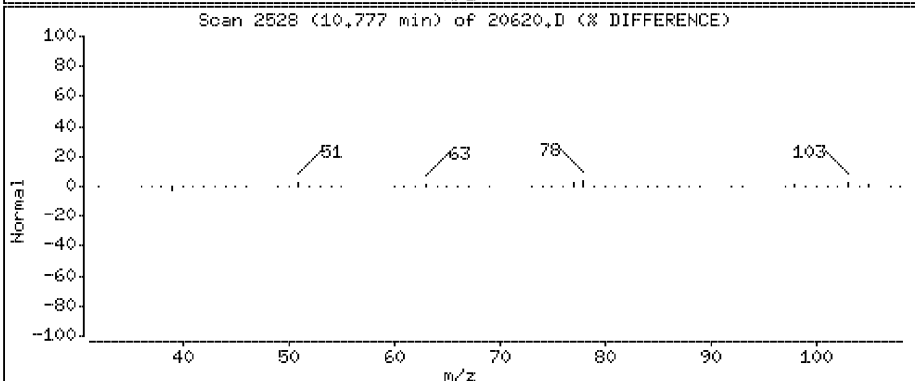
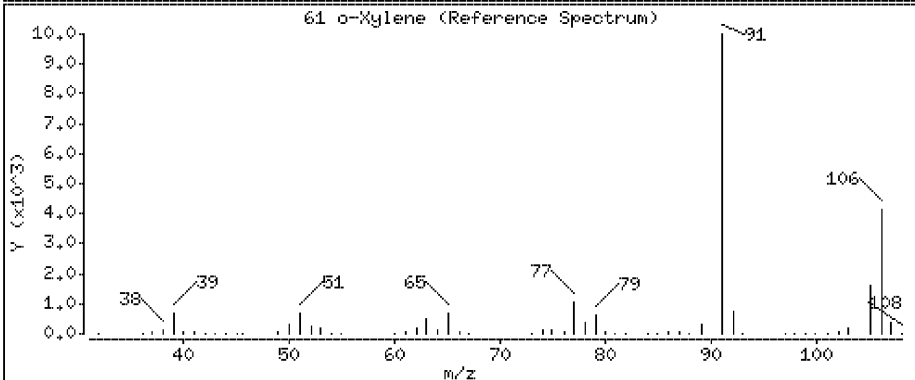
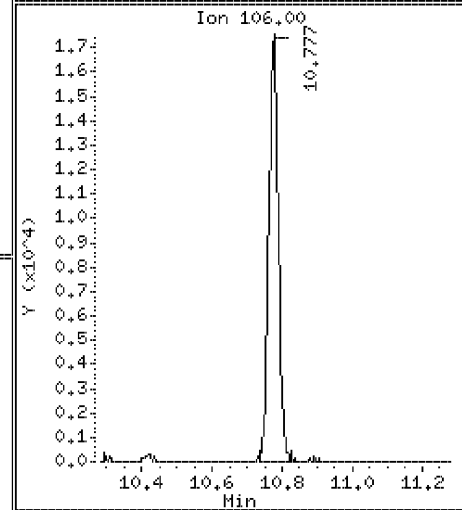
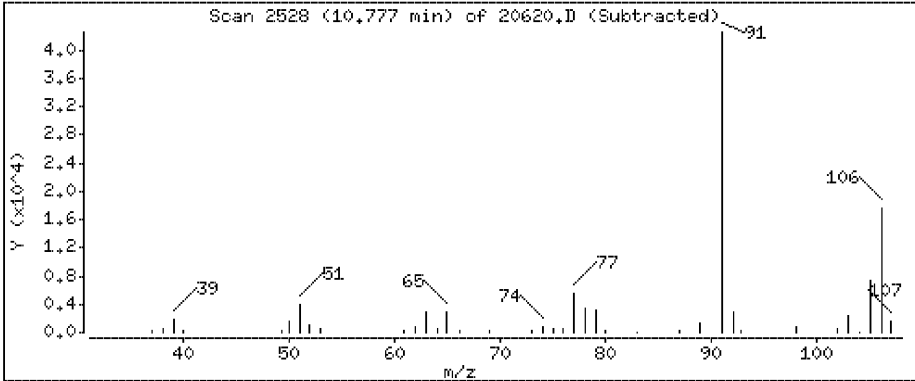
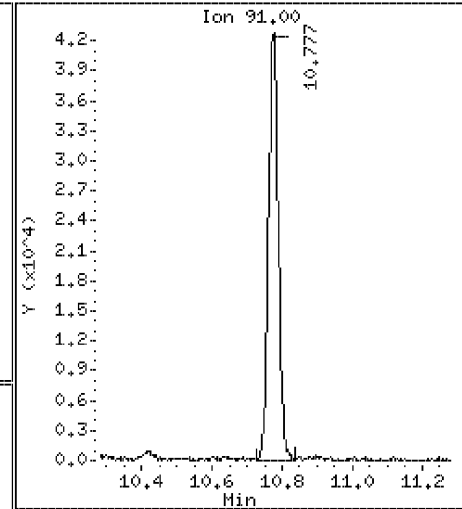
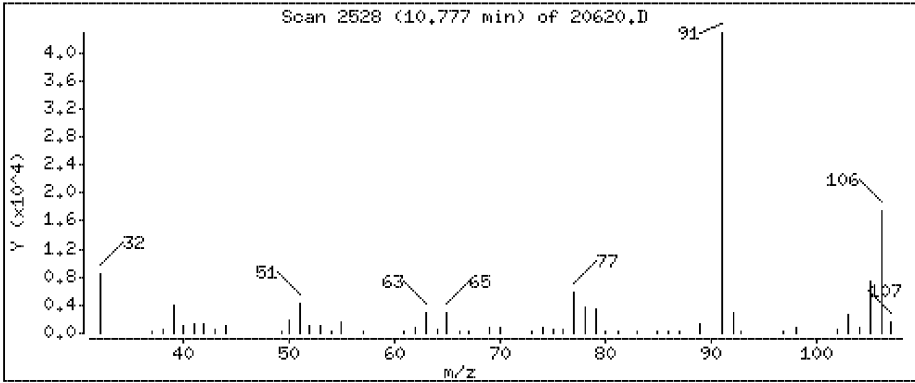
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

61 o-Xylene

Concentration: 1.73 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20620.D

Date : 25-JUL-2013 22:27

Client ID:

Instrument: 10airD.i

Sample Info:

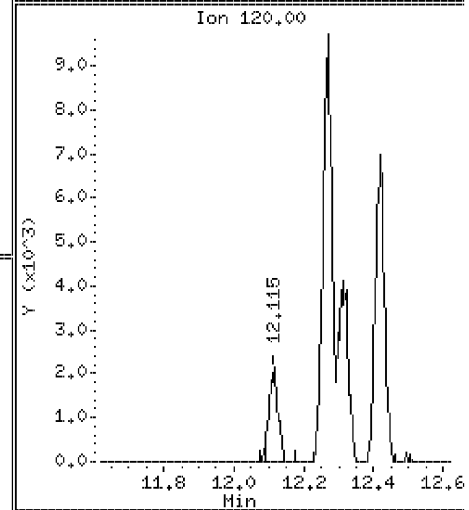
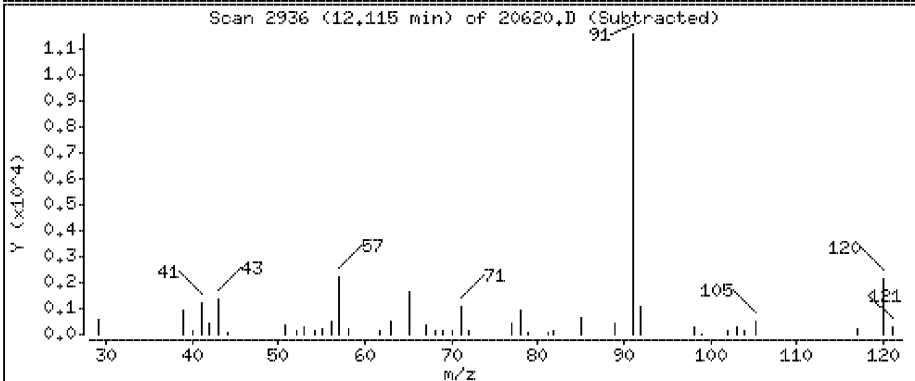
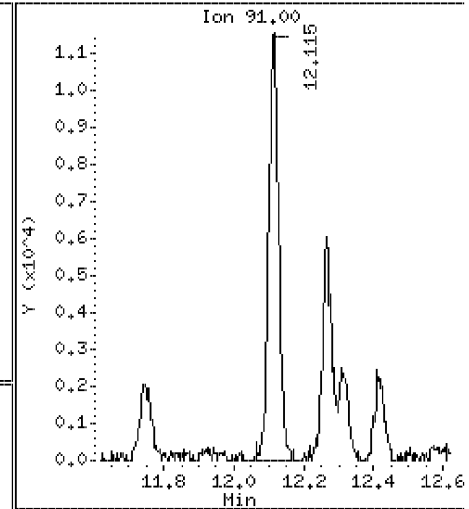
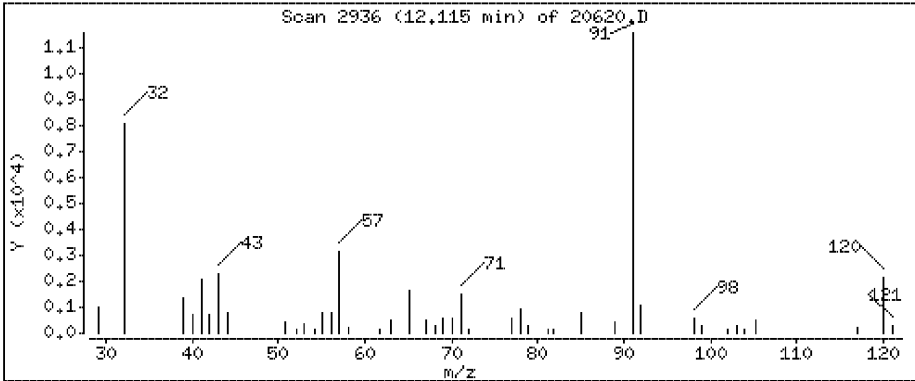
Operator: DR1

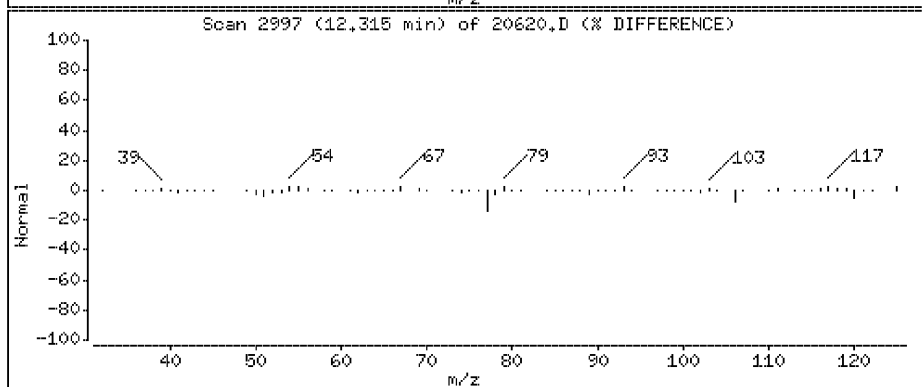
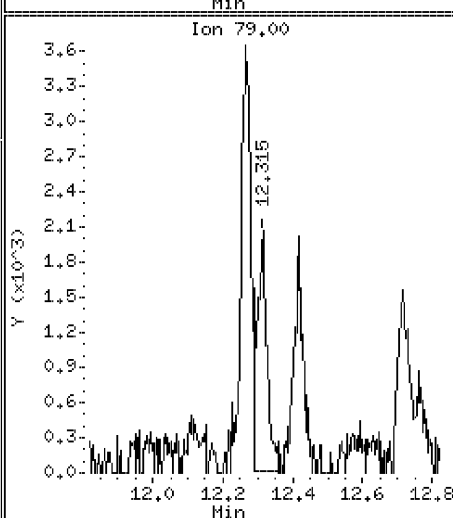
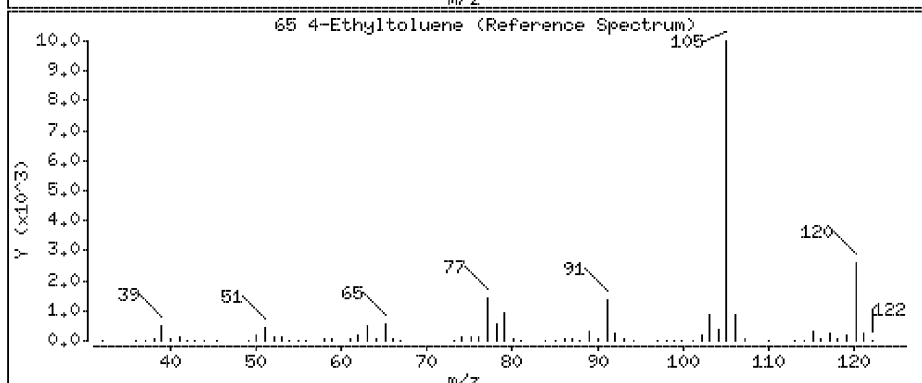
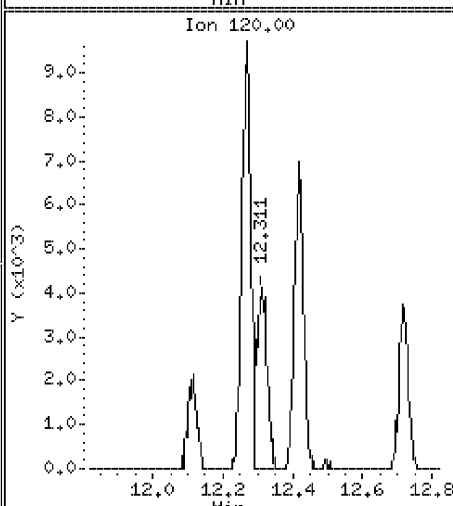
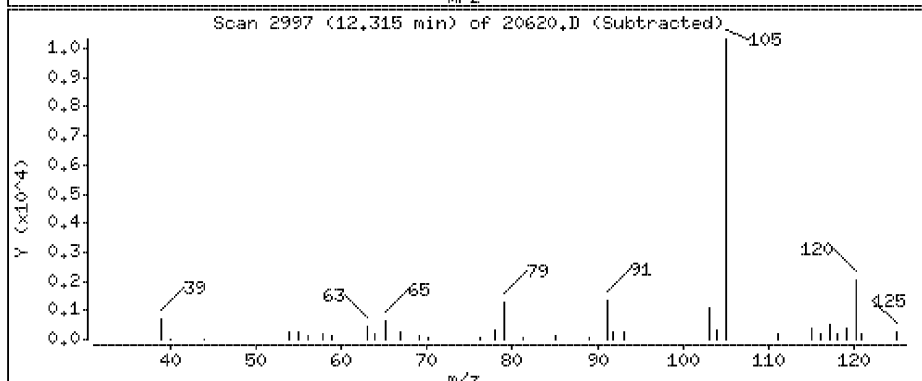
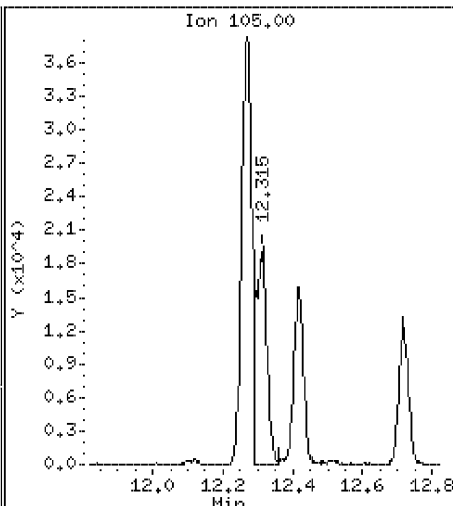
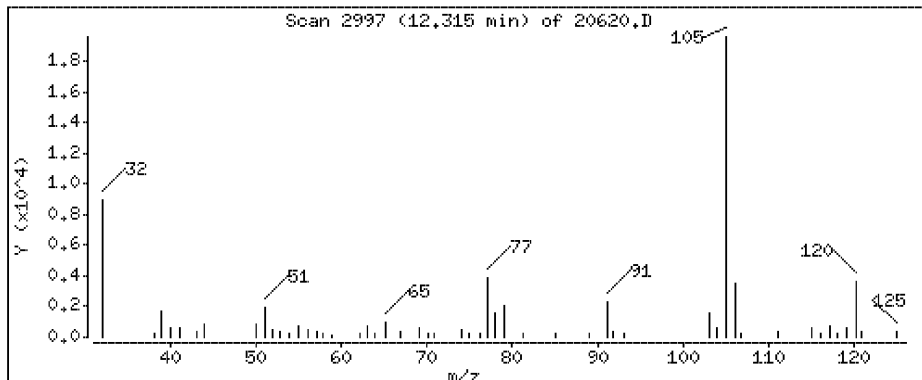
Column phase: J&W DB-5

Column diameter: 0.32

64 N-Propylbenzene

Concentration: 0.704 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20620.D

Date : 25-JUL-2013 22:27

Client ID:

Instrument: 10airD.i

Sample Info:

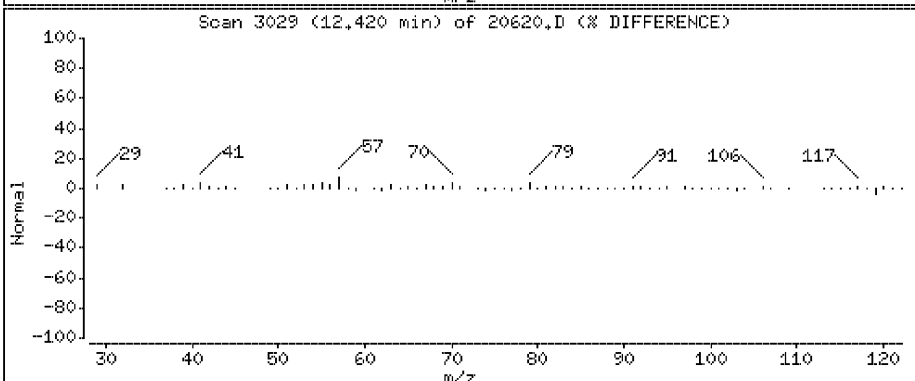
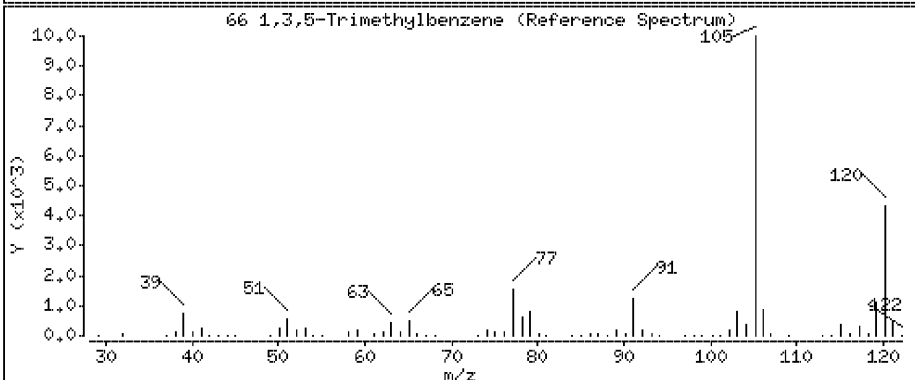
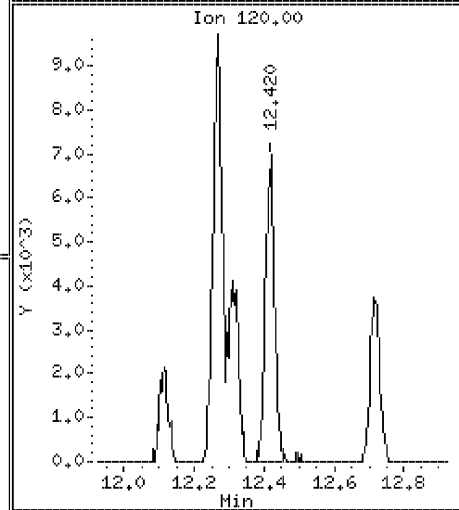
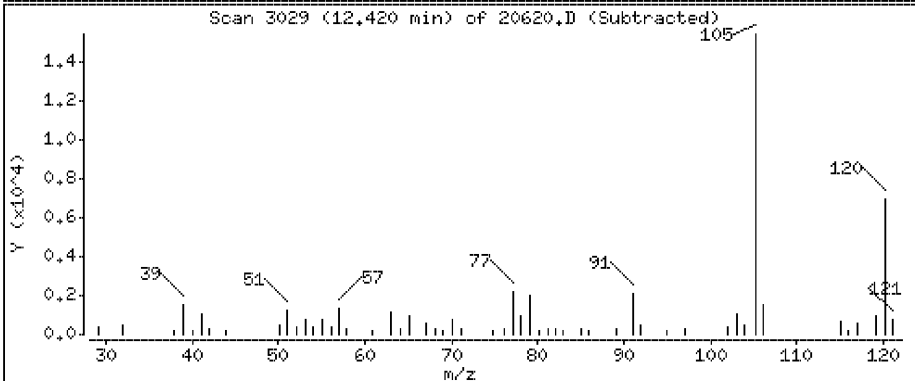
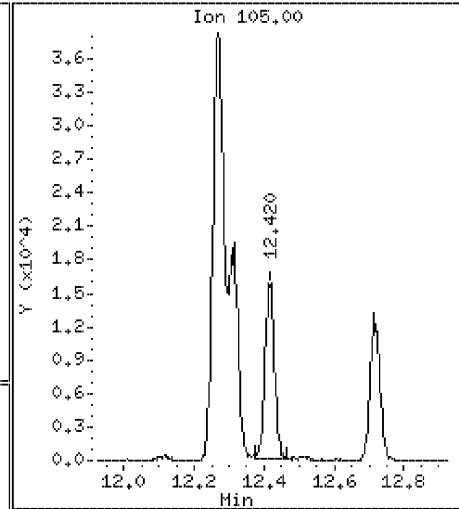
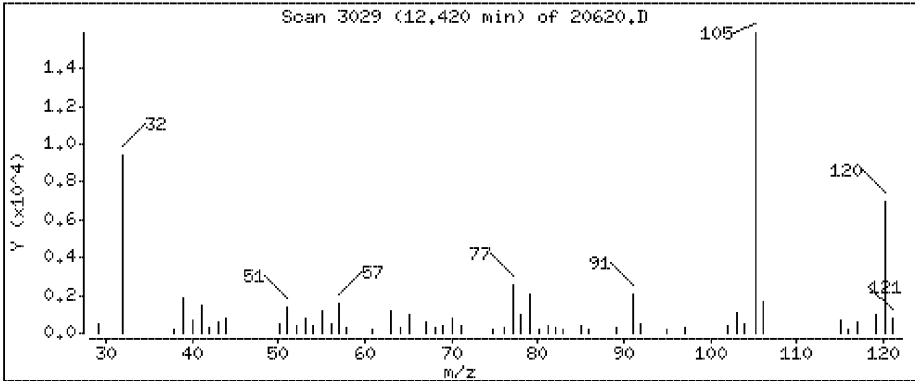
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

66 1,3,5-Trimethylbenzene

Concentration: 0.938 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20620.D

Date : 25-JUL-2013 22:27

Client ID:

Instrument: 10airD.i

Sample Info:

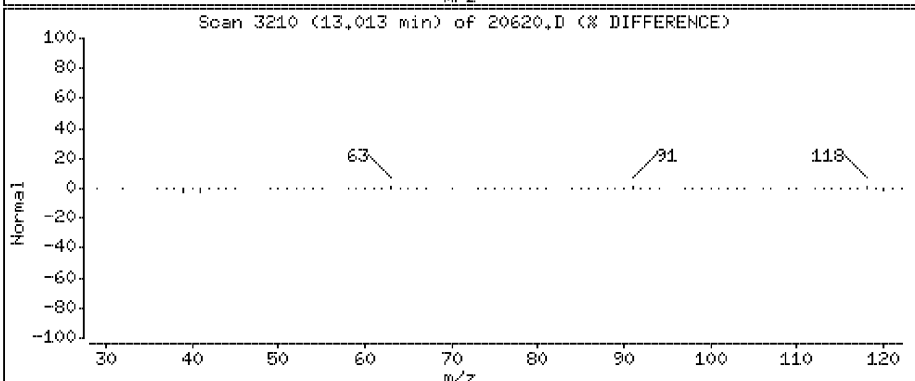
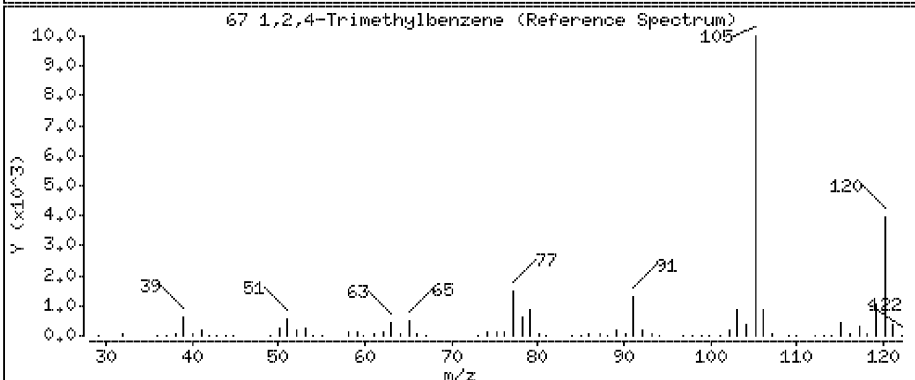
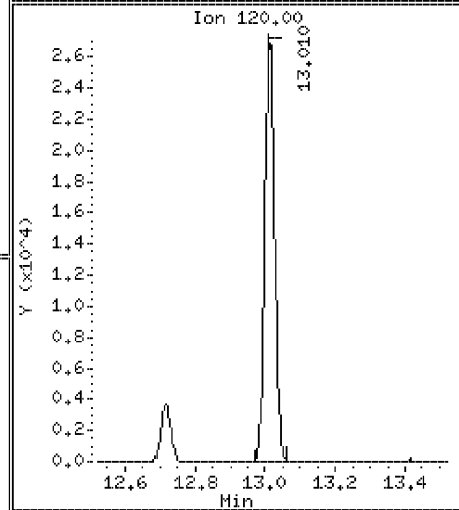
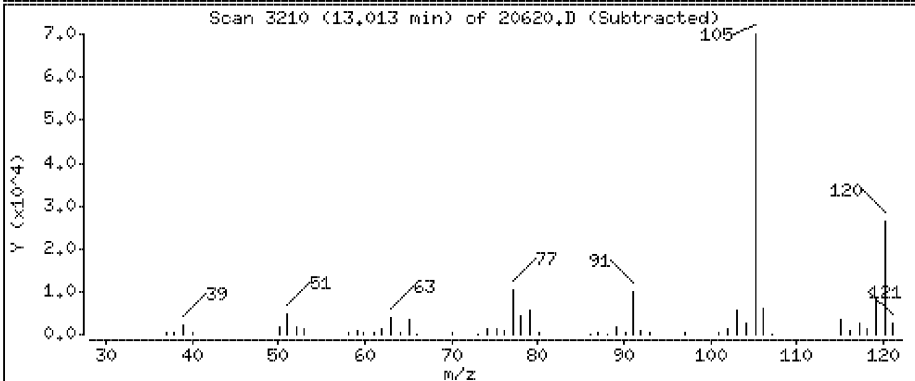
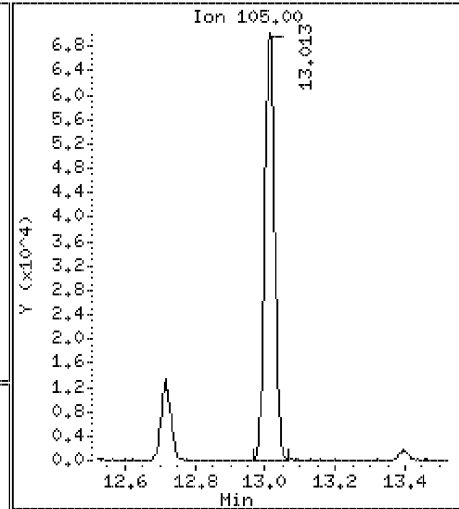
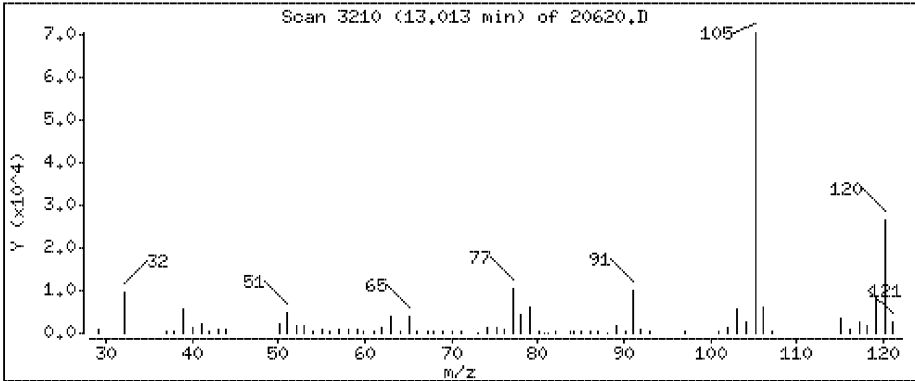
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

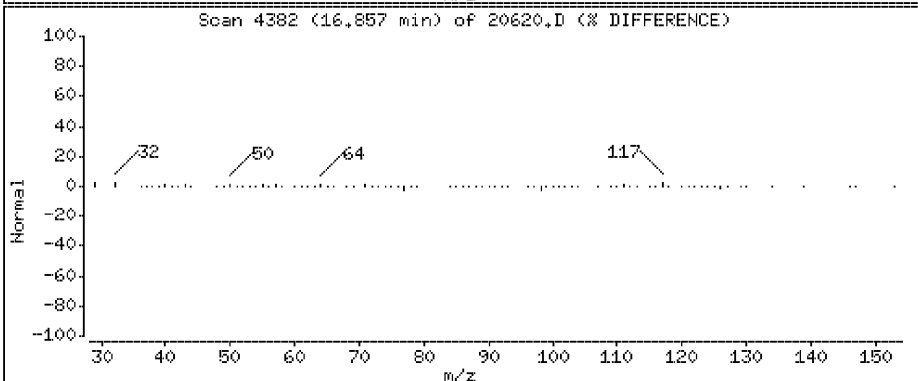
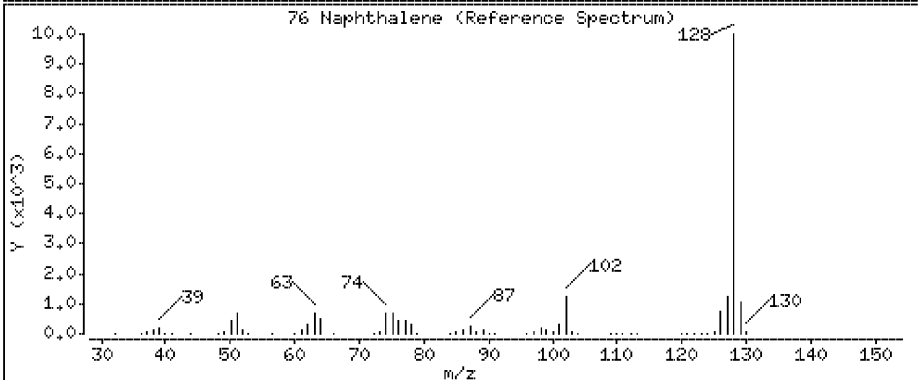
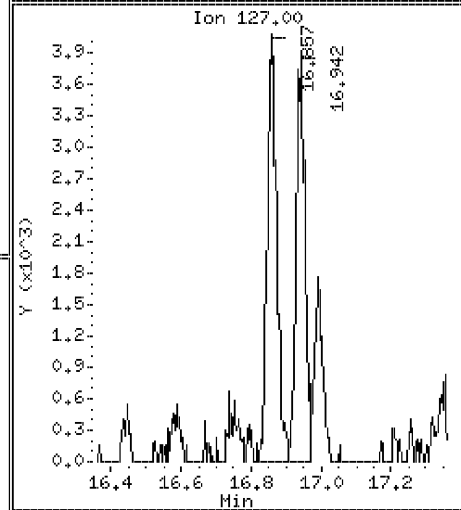
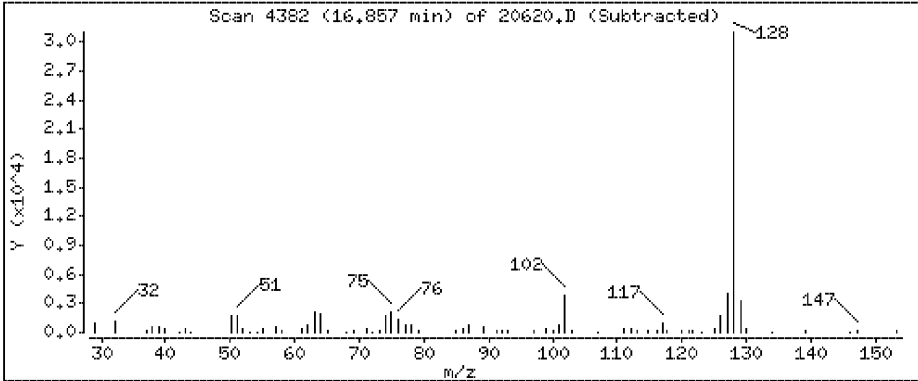
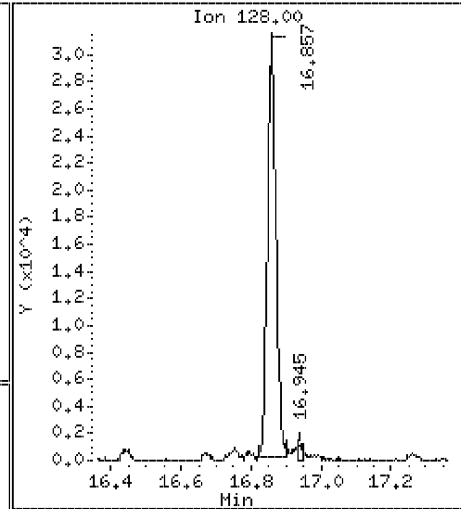
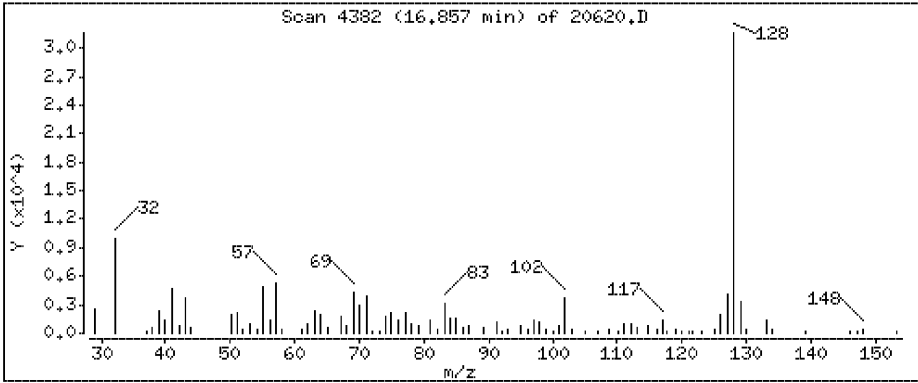
67 1,2,4-Trimethylbenzene

Concentration: 2.92 ppbv



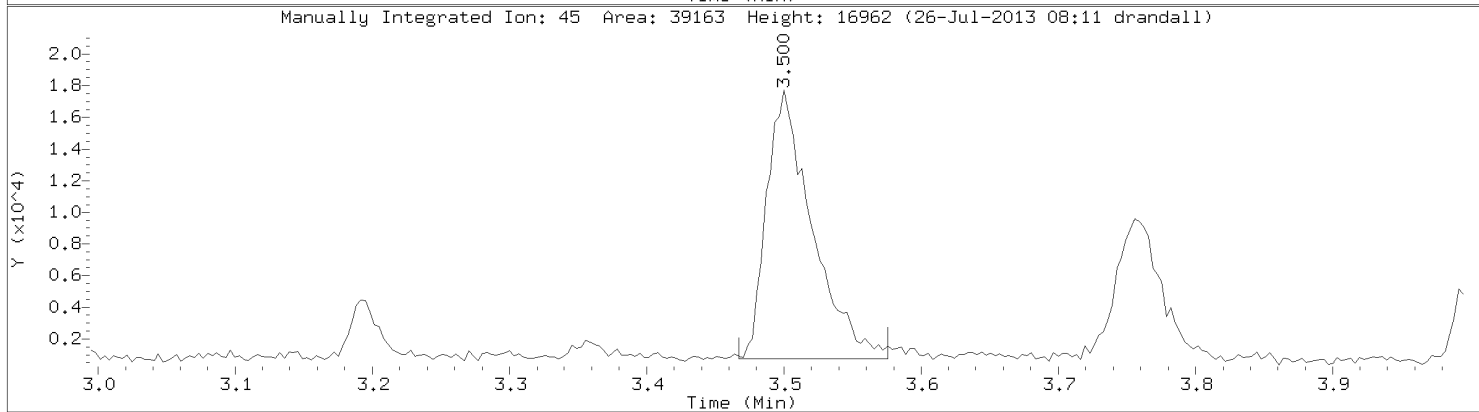
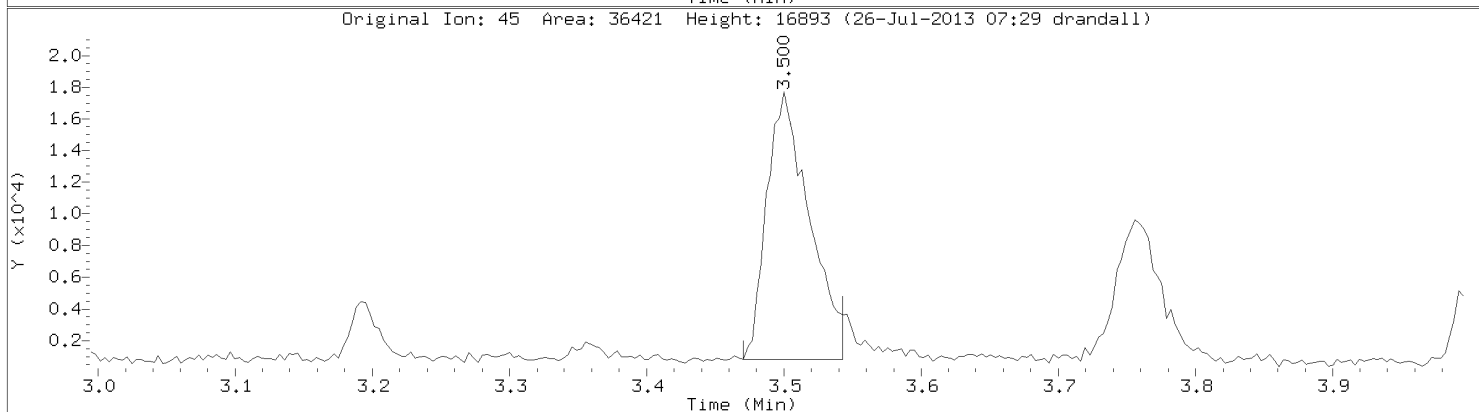
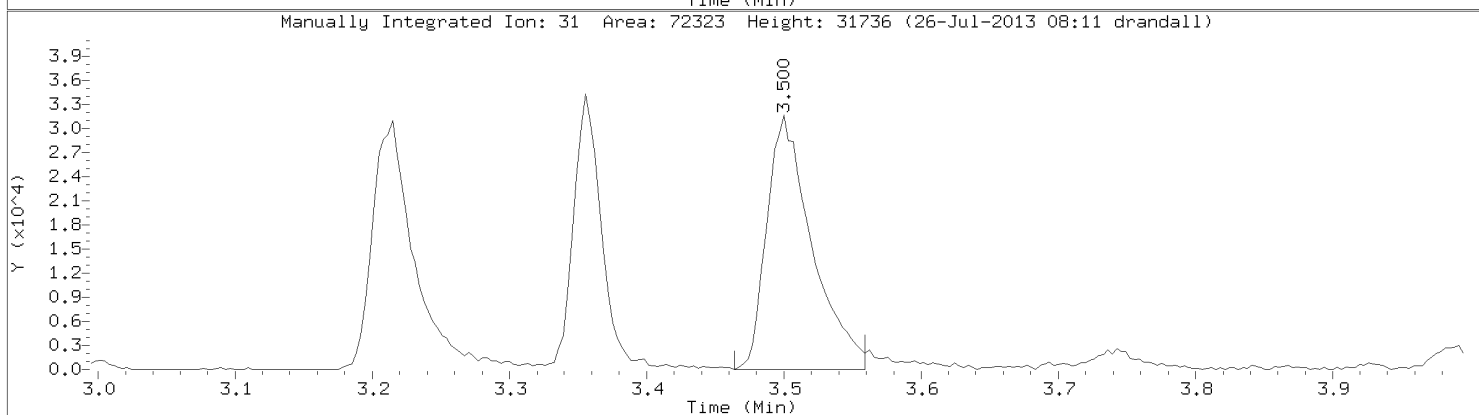
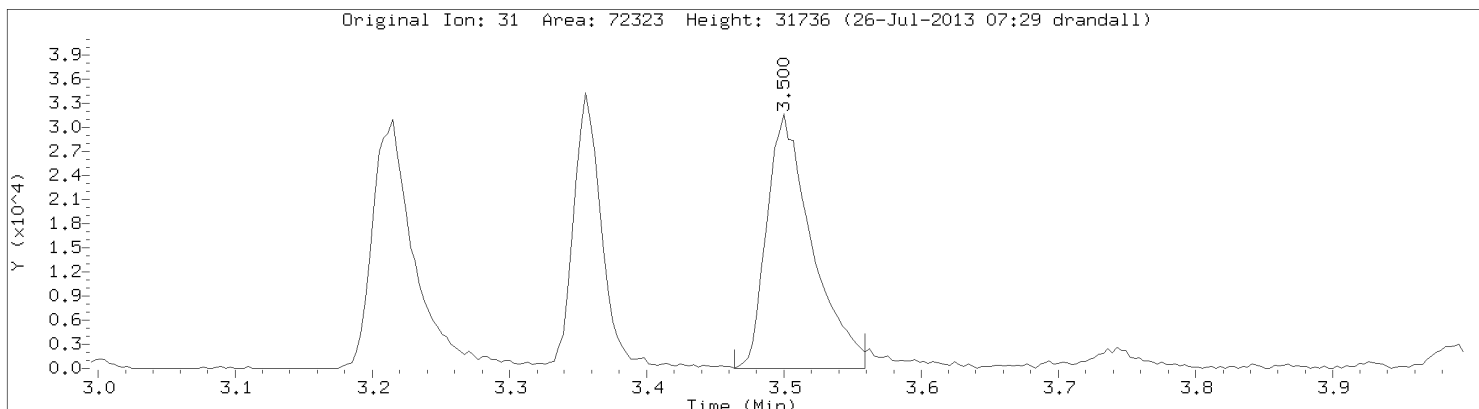
76 Naphthalene

Concentration: 2.38 ppbv



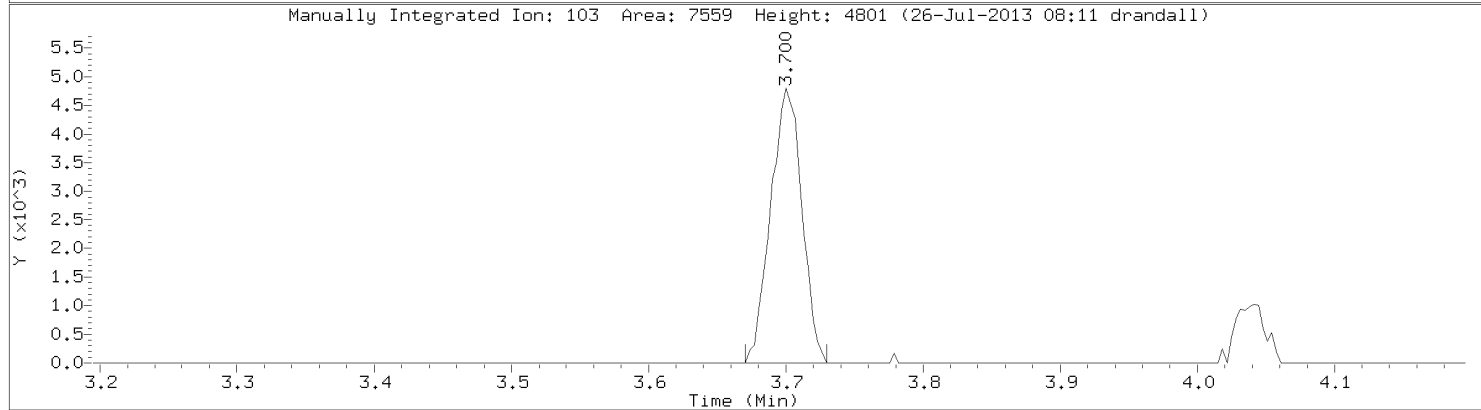
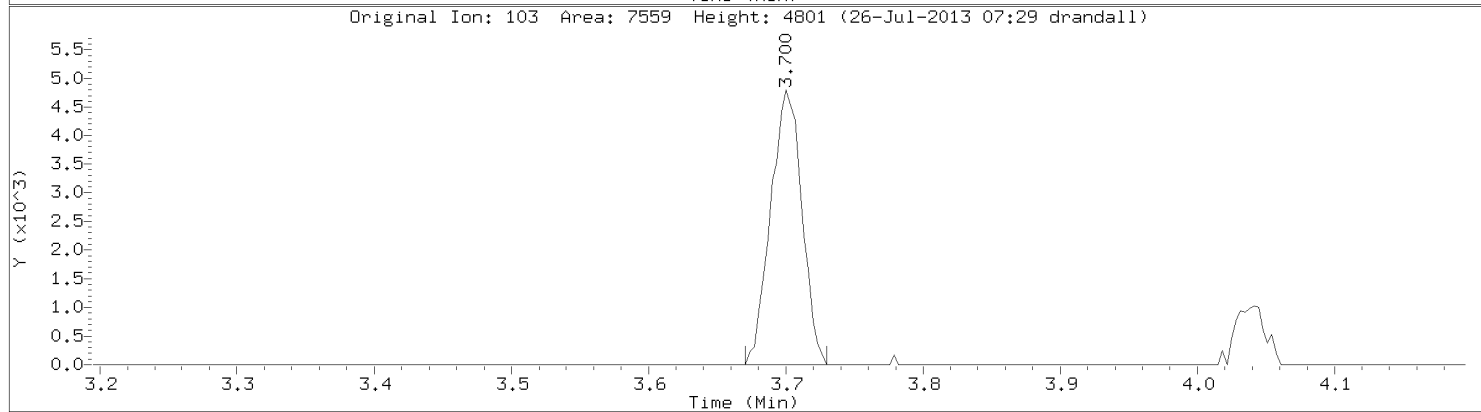
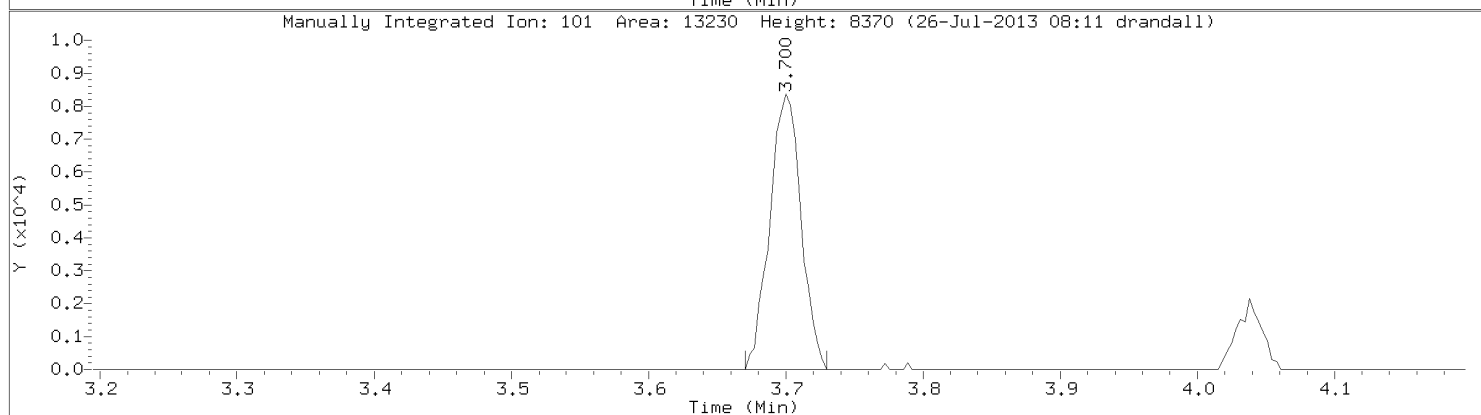
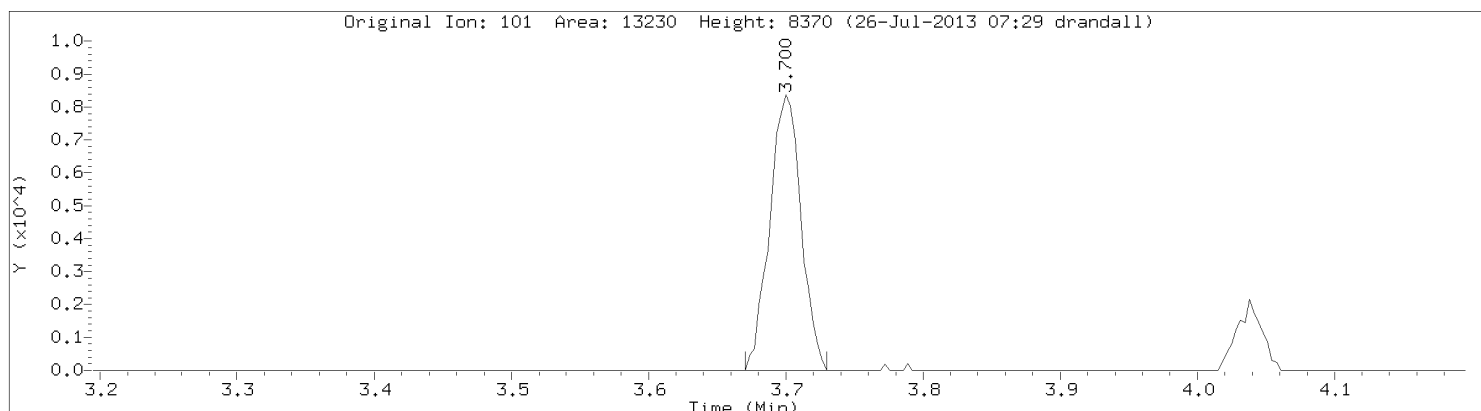
Data File: \\192.168.10.12\chem\10airD.i\072513.b\20620.d
Injection Date: 25-JUL-2013 22:27
Instrument: 10airD.i
Lab Sample ID: 10236207011

Compound: Ethanol
CAS Number: 64-17-5

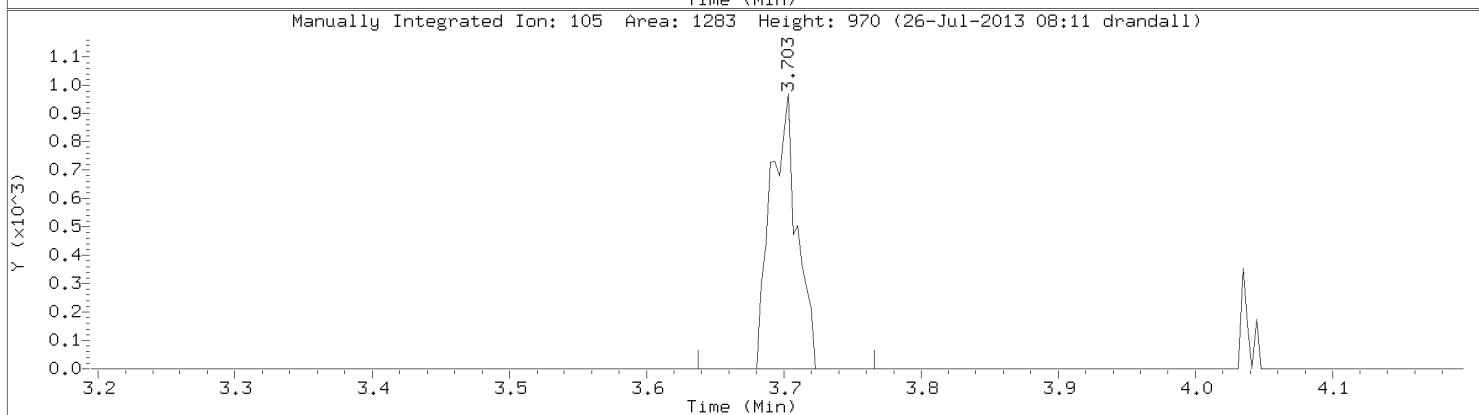
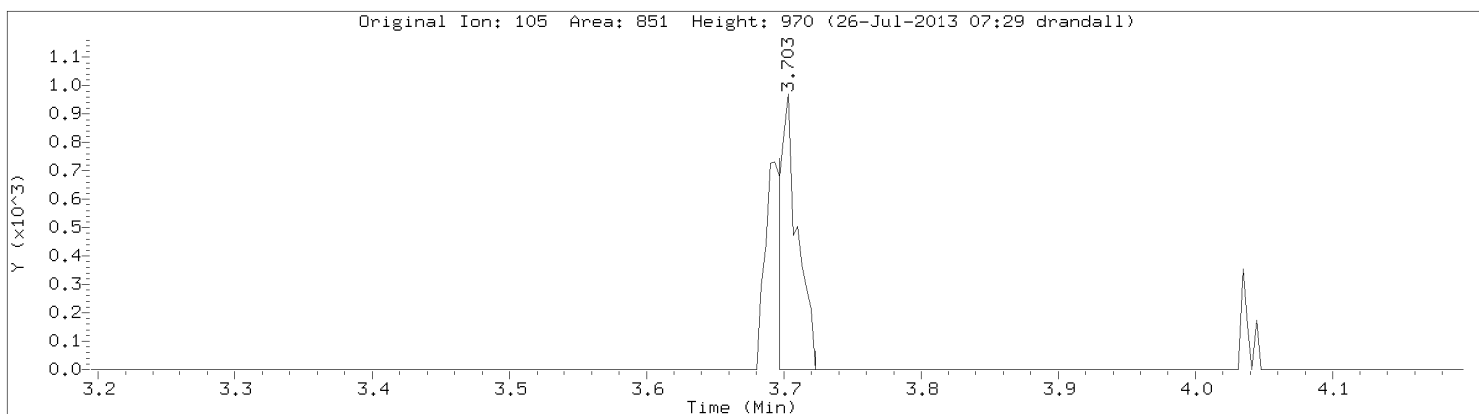


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Injection Date: 25-JUL-2013 22:27
Instrument: 10airD.i
Lab Sample ID: 10236207011

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

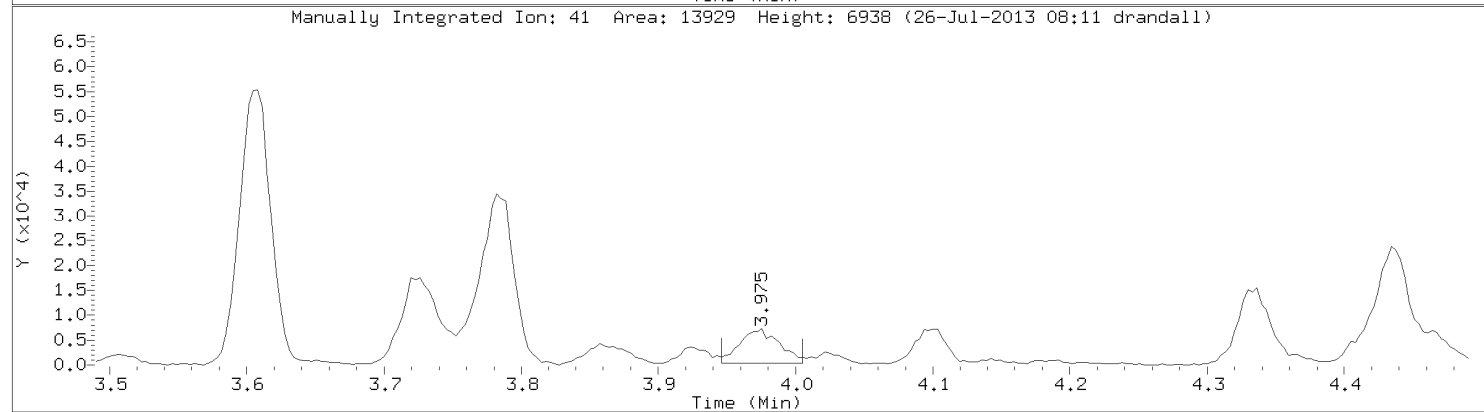
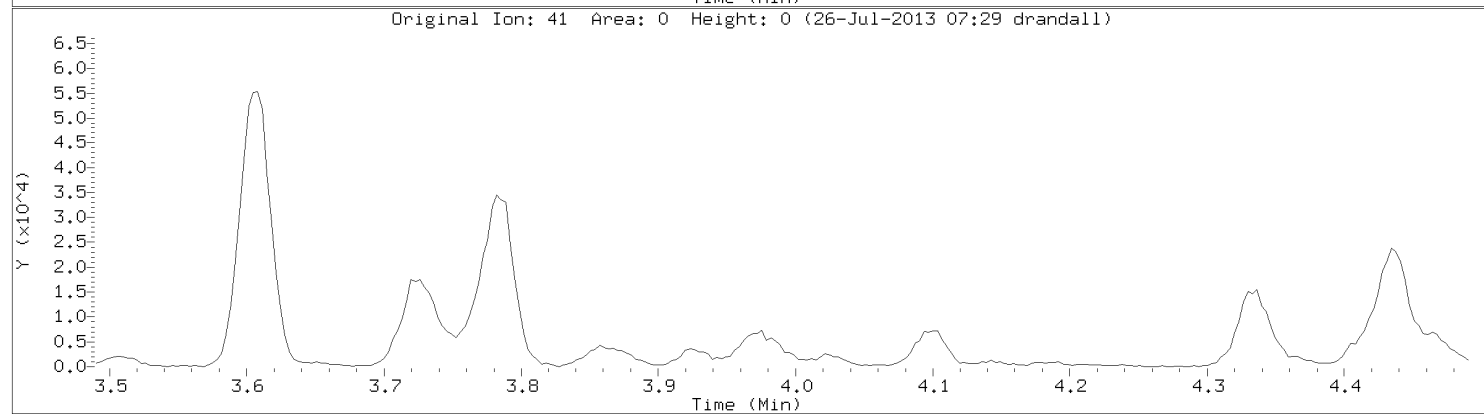
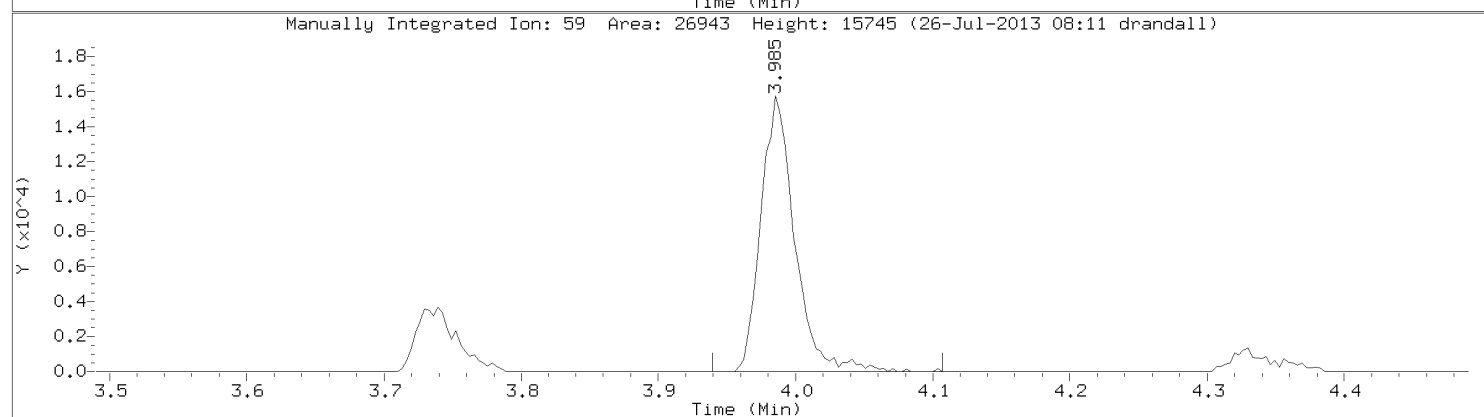
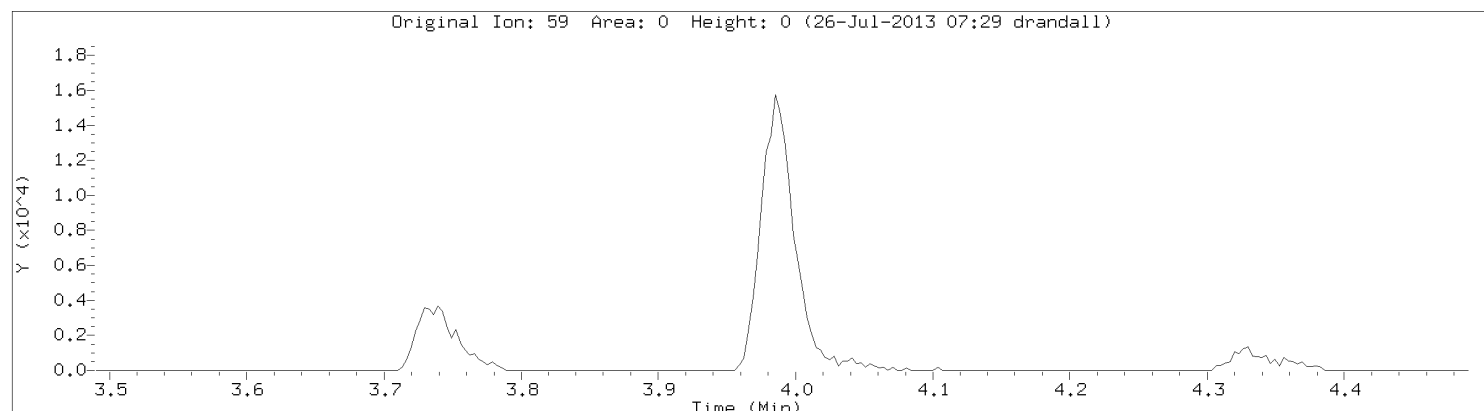


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Injection Date: 25-JUL-2013 22:27
Instrument: 10airD.i
Lab Sample ID: 10236207011



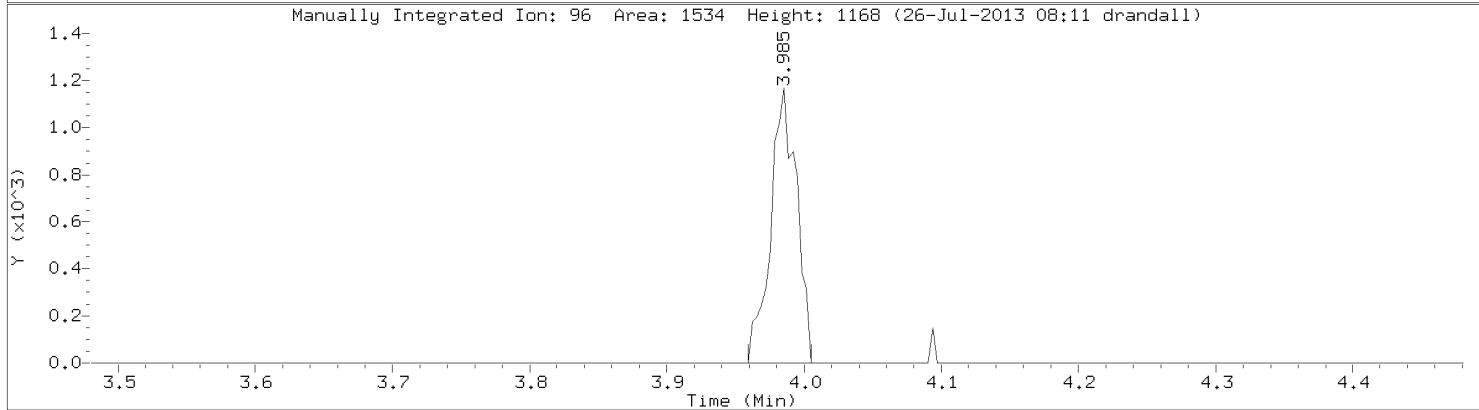
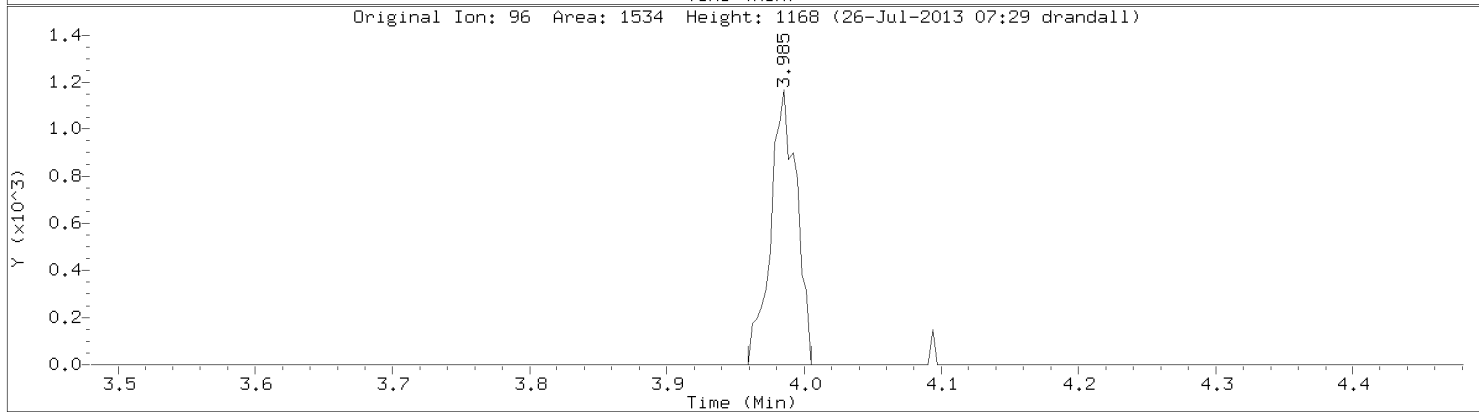
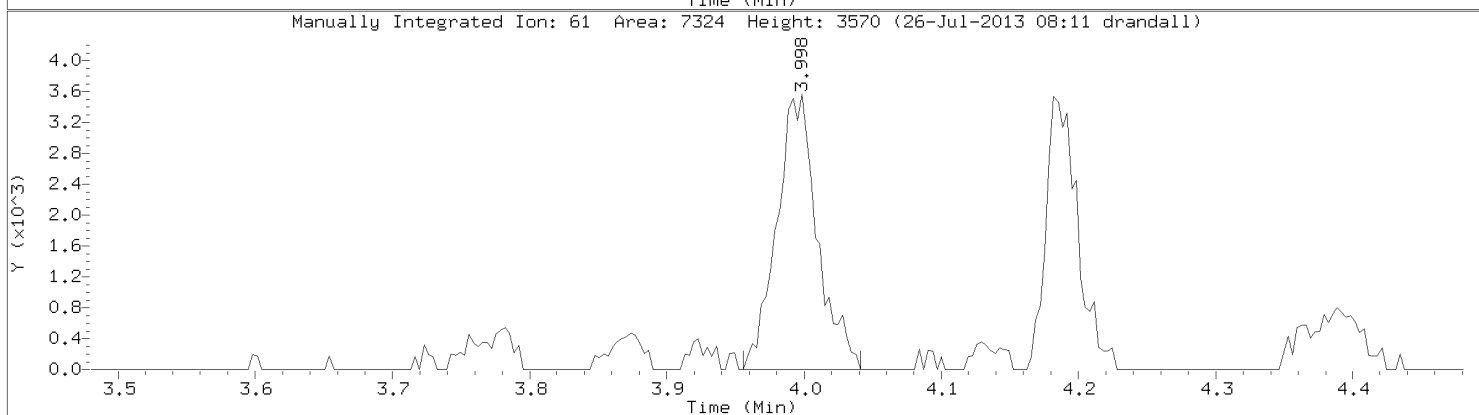
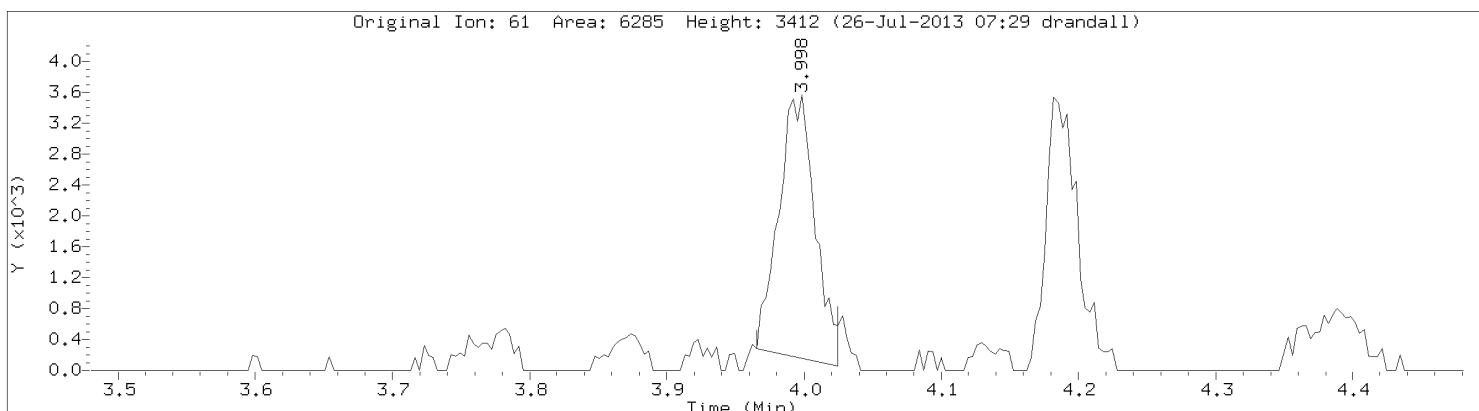
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Injection Date: 25-JUL-2013 22:27
Instrument: 10airD.i
Lab Sample ID: 10236207011

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



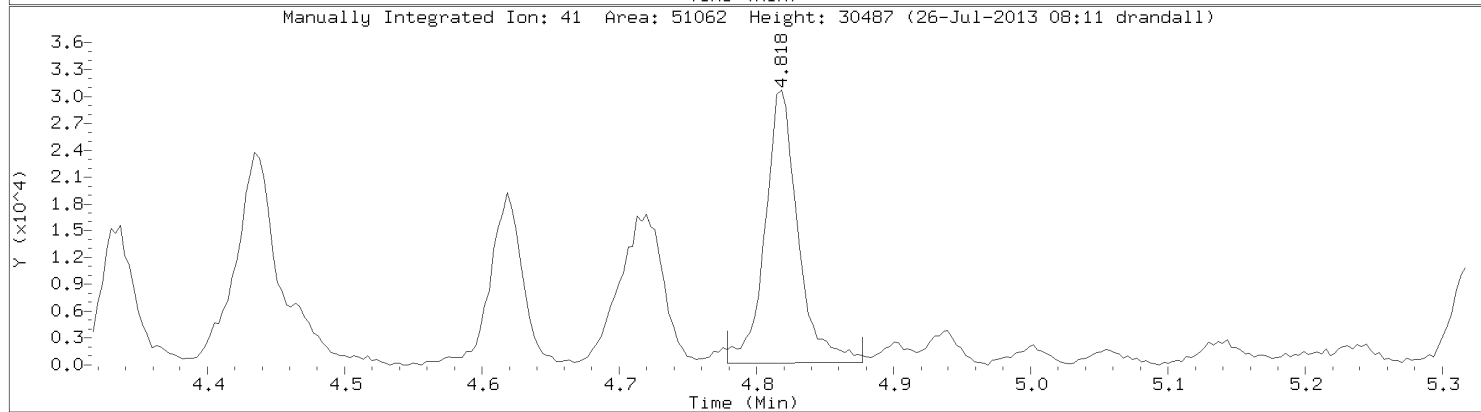
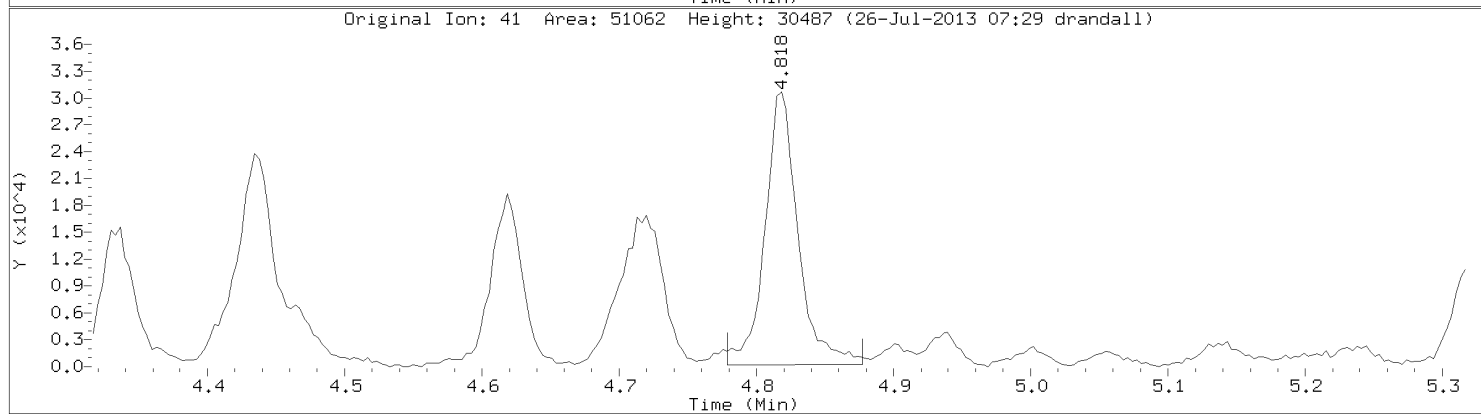
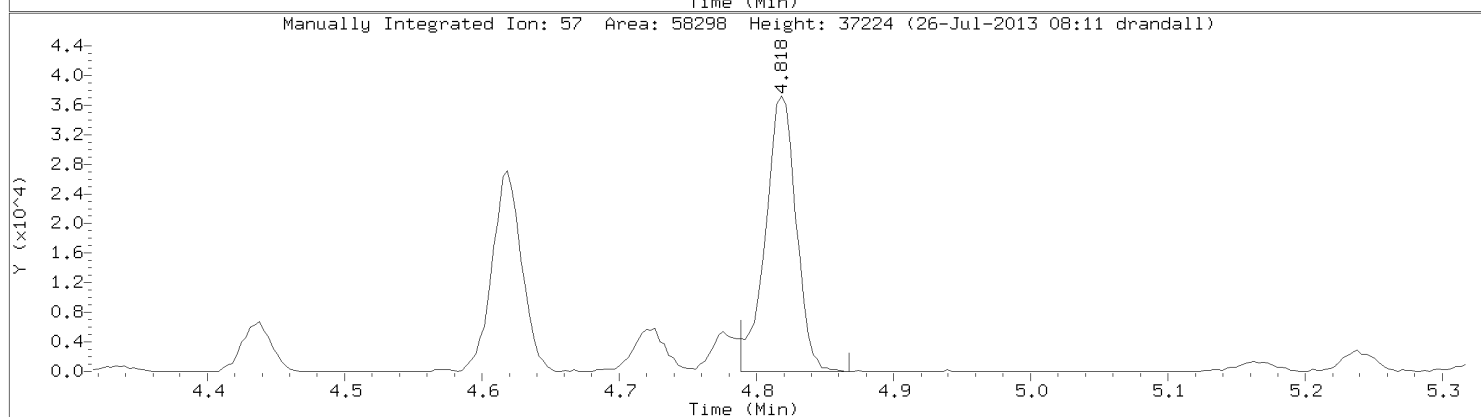
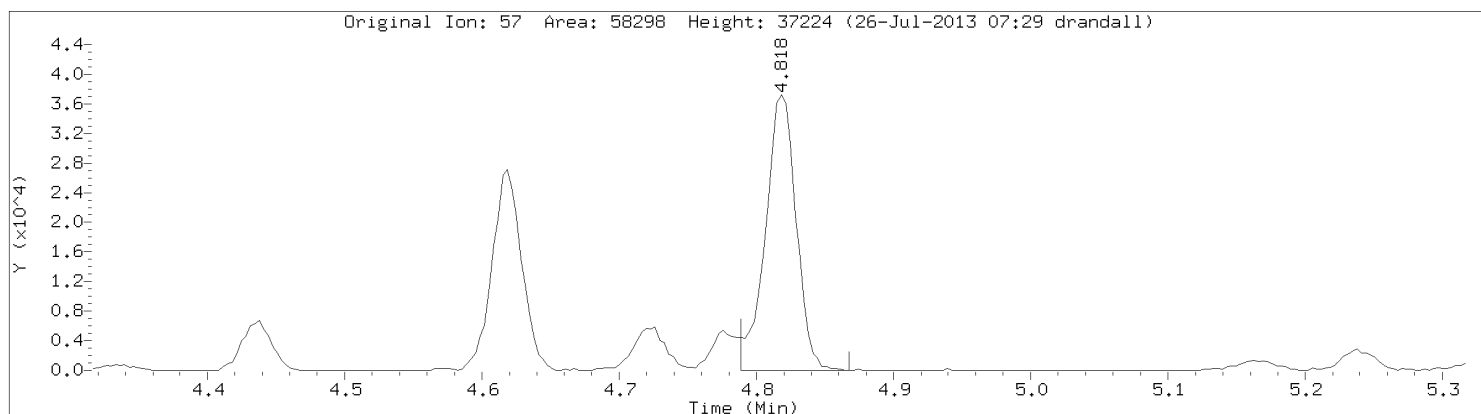
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Injection Date: 25-JUL-2013 22:27
Instrument: 10airD.i
Lab Sample ID: 10236207011

Compound: 1,1-Dichloroethene
CAS Number: 75-35-4

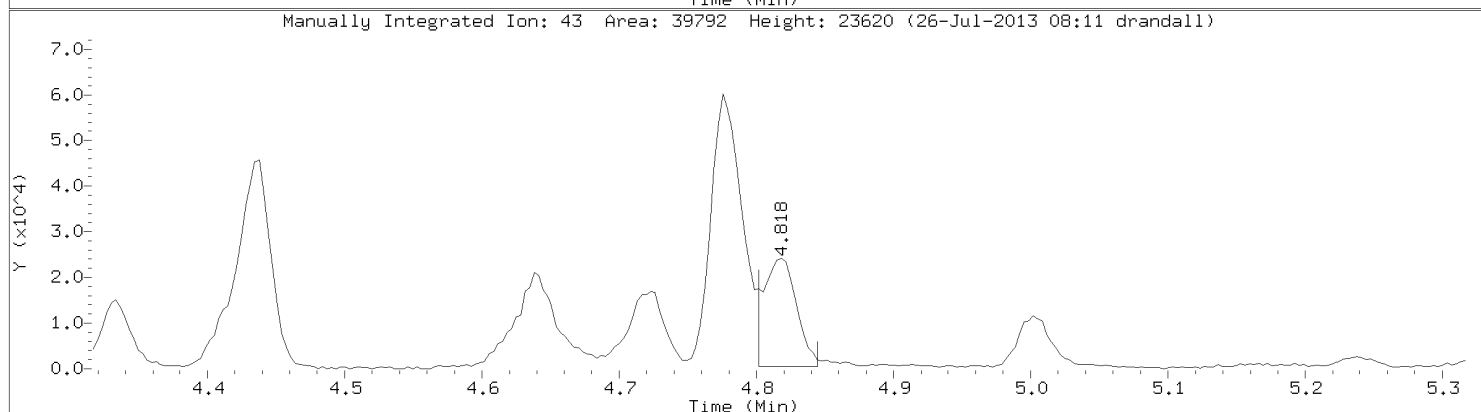
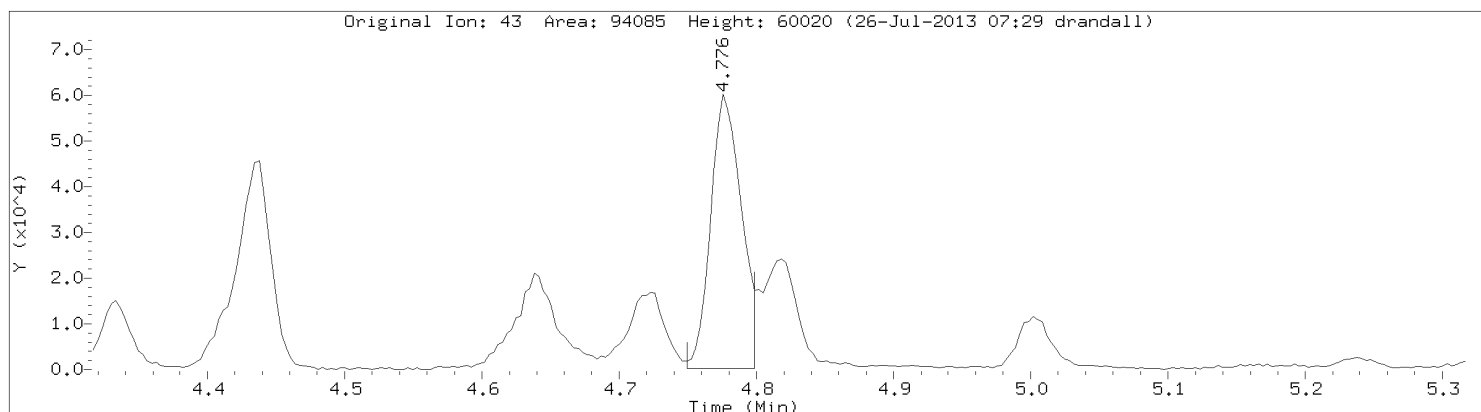


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Injection Date: 25-JUL-2013 22:27
Instrument: 10airD.i
Lab Sample ID: 10236207011

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

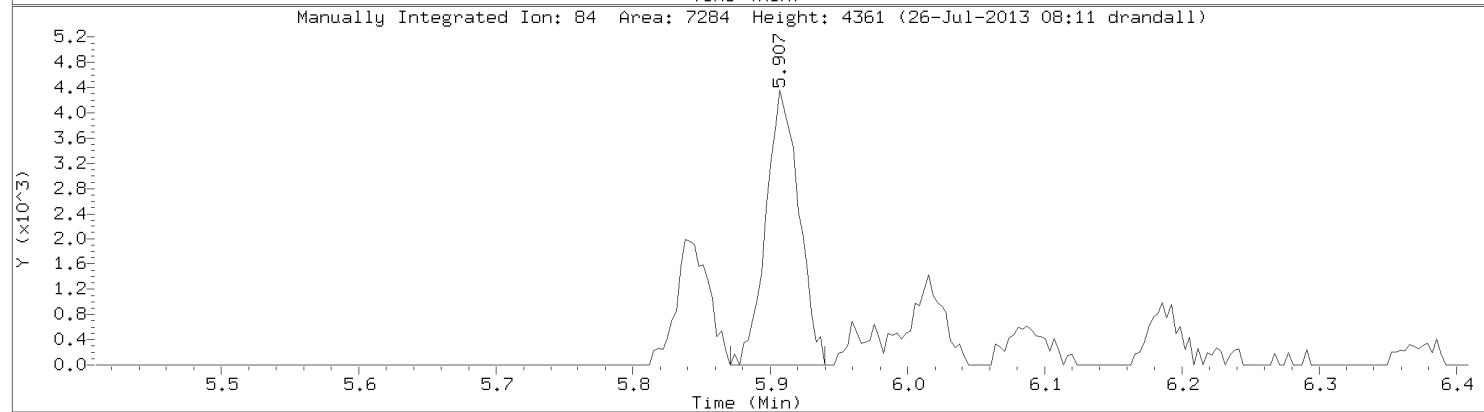
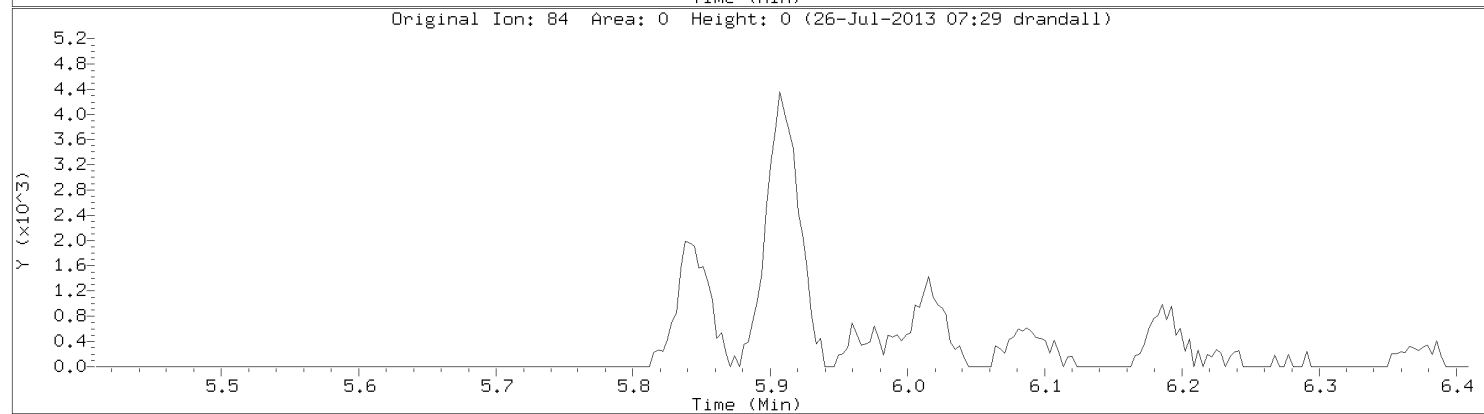
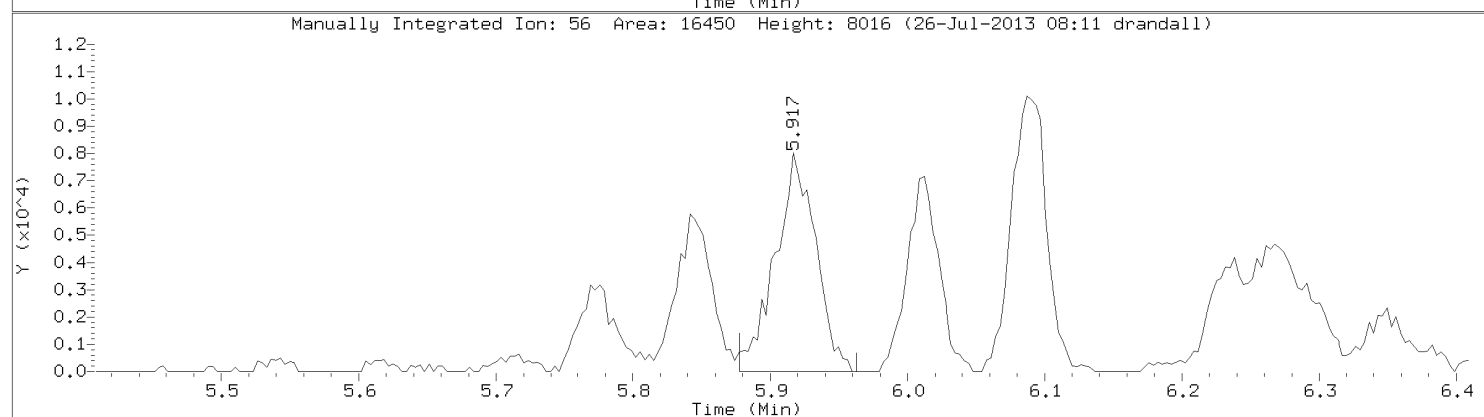
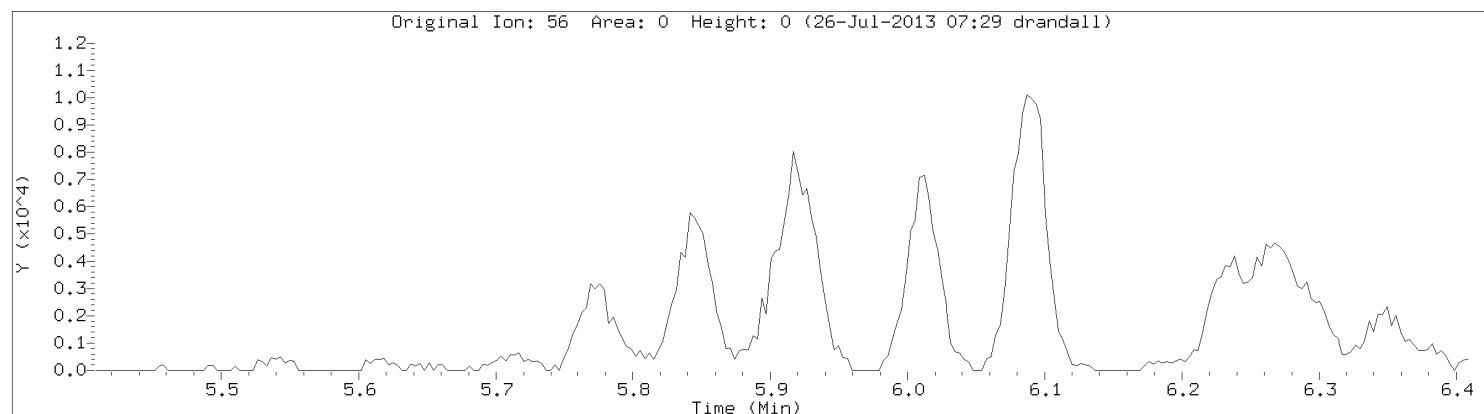


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Injection Date: 25-JUL-2013 22:27
Instrument: 10airD.i
Lab Sample ID: 10236207011

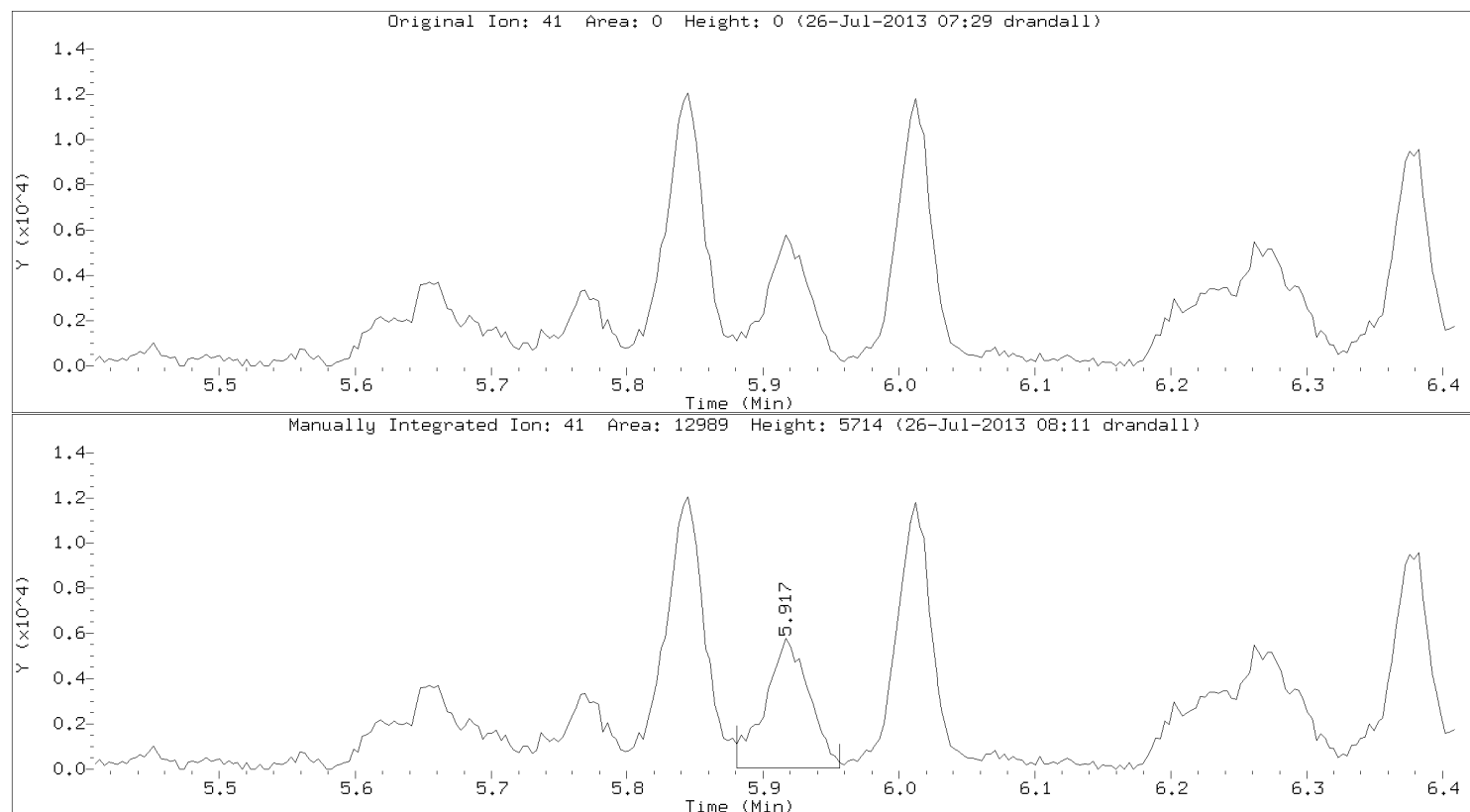


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Injection Date: 25-JUL-2013 22:27
Instrument: 10airD.i
Lab Sample ID: 10236207011

Compound: Cyclohexane
CAS Number: 110-82-7

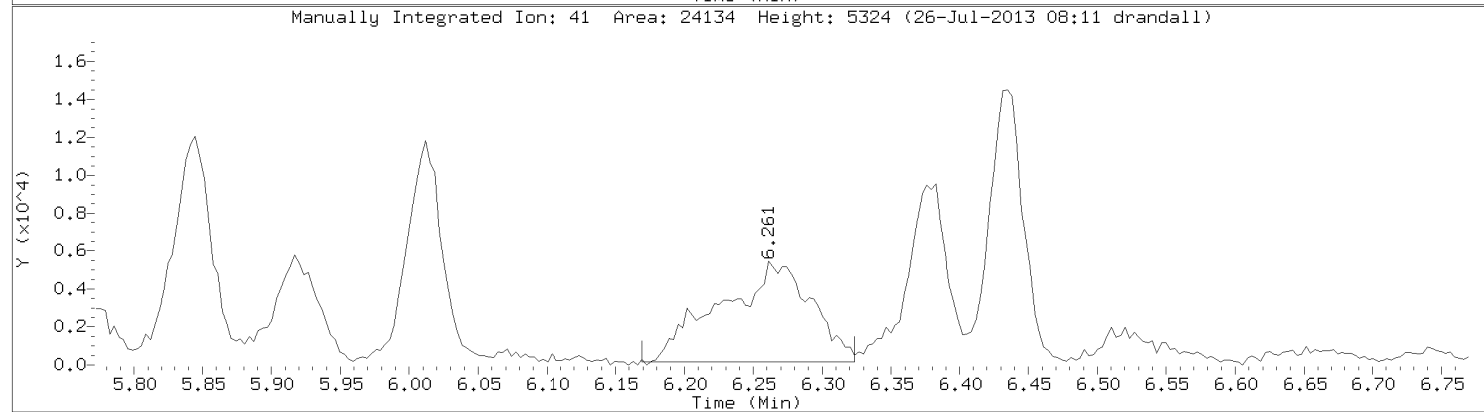
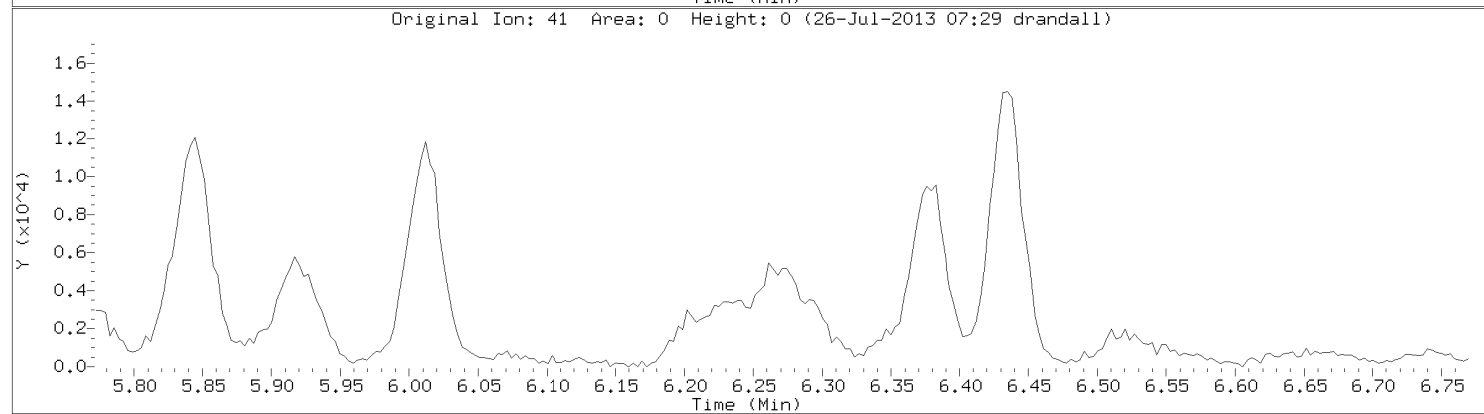
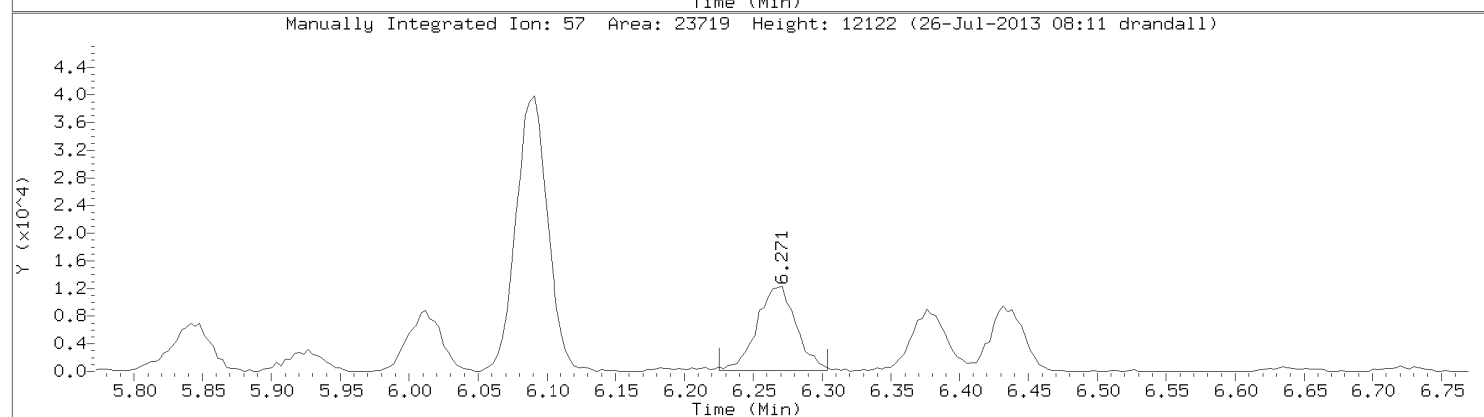
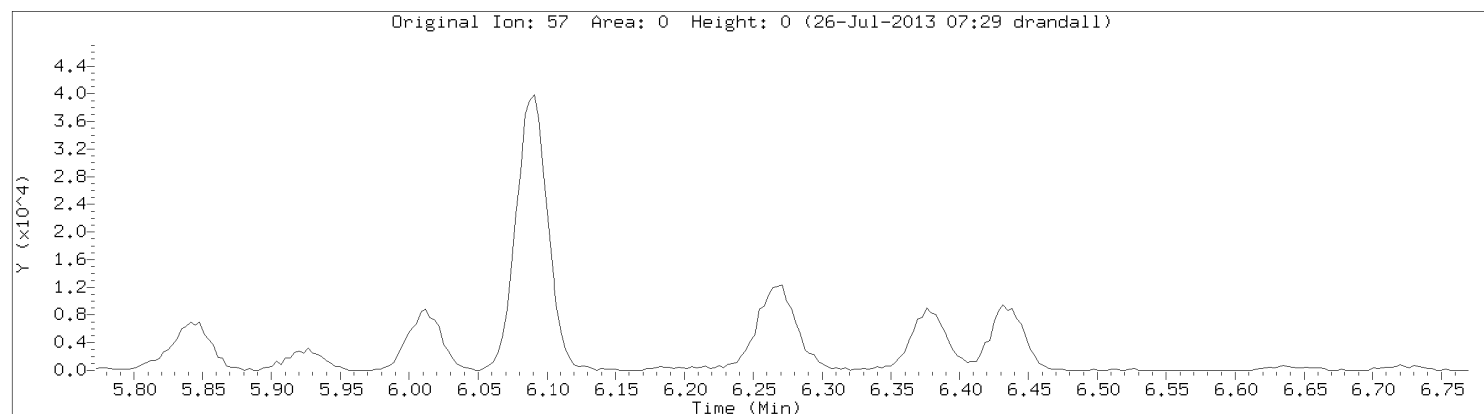


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Instrument: 10airD.i
Lab Sample ID: 10236207011

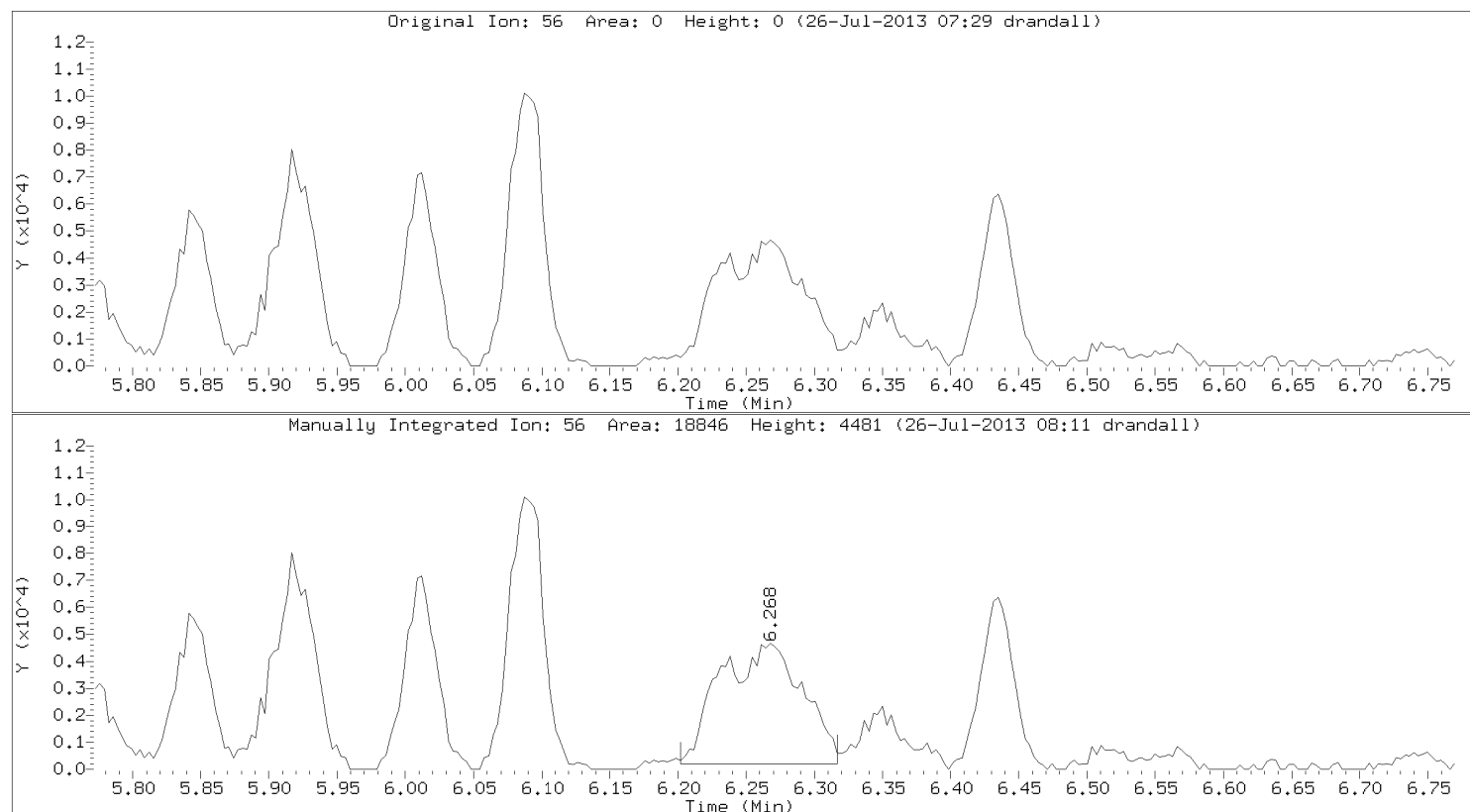


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Injection Date: 25-JUL-2013 22:27
Instrument: 10airD.i
Lab Sample ID: 10236207011

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

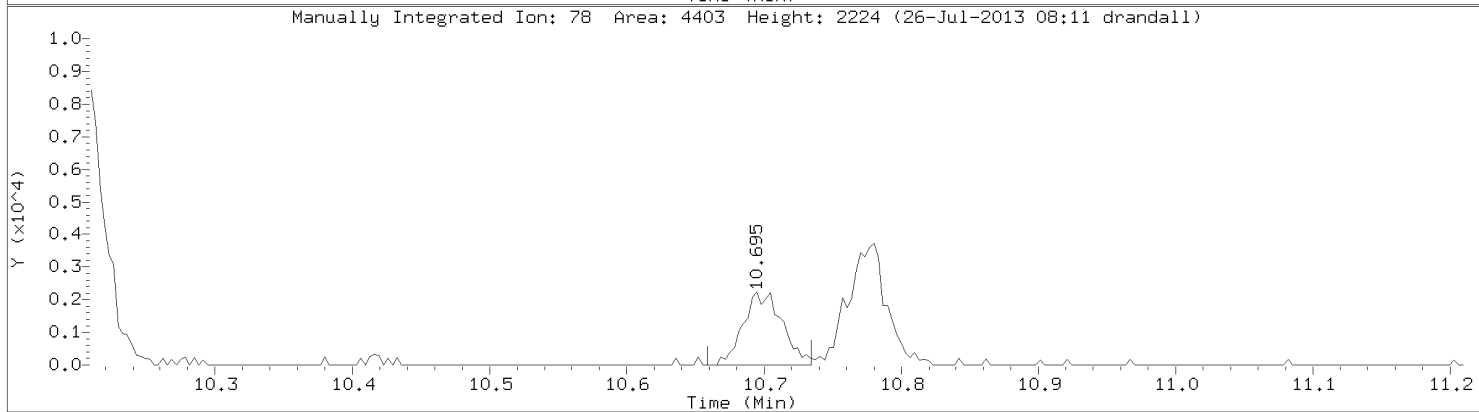
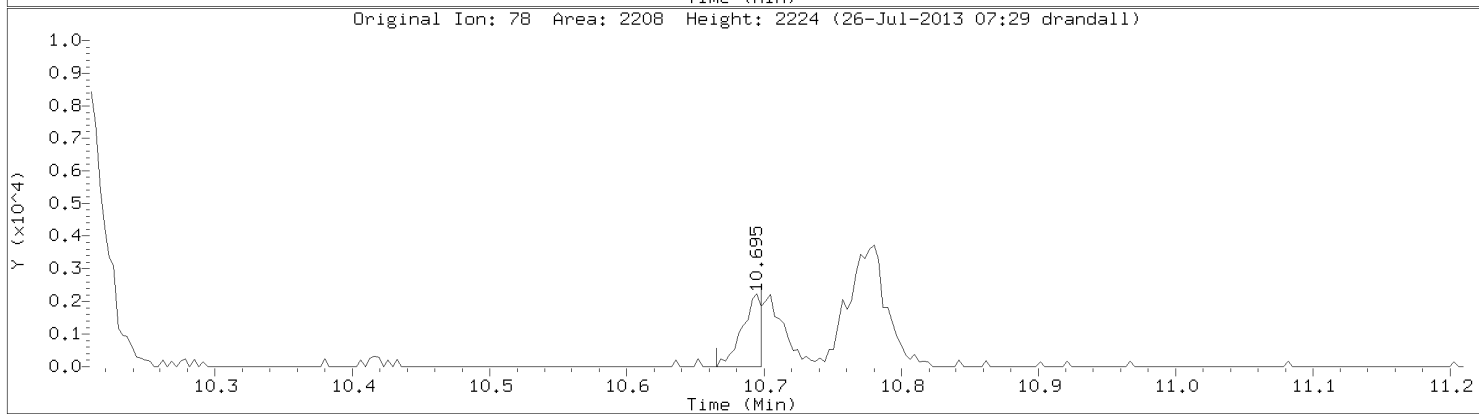
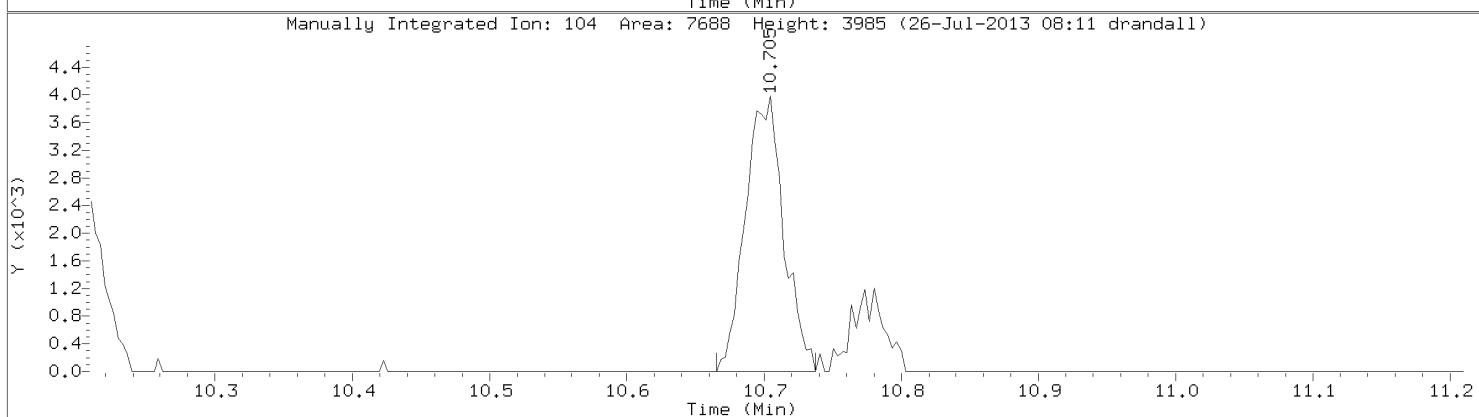
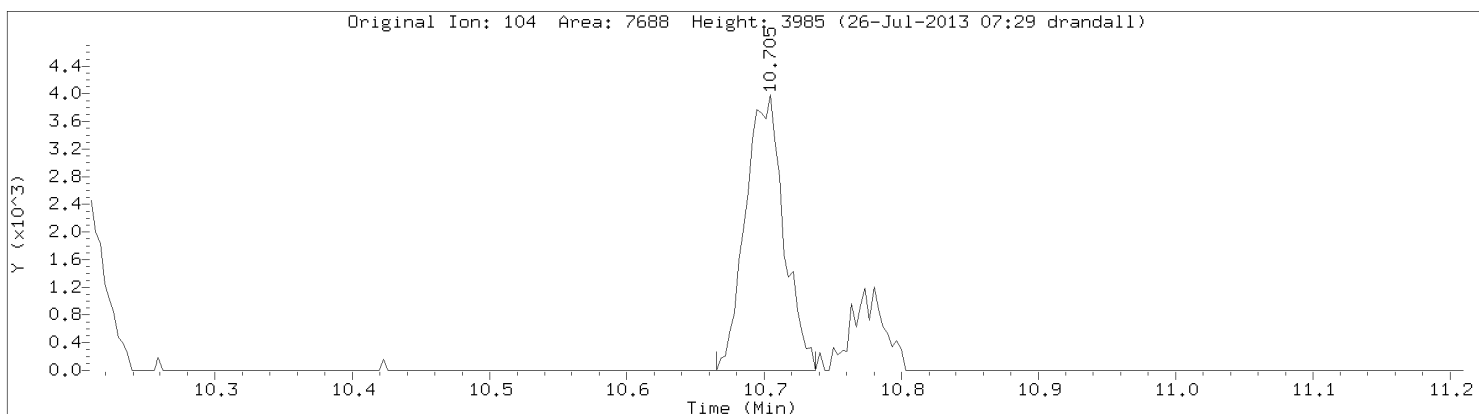


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Instrument: 10airD.i
Lab Sample ID: 10236207011

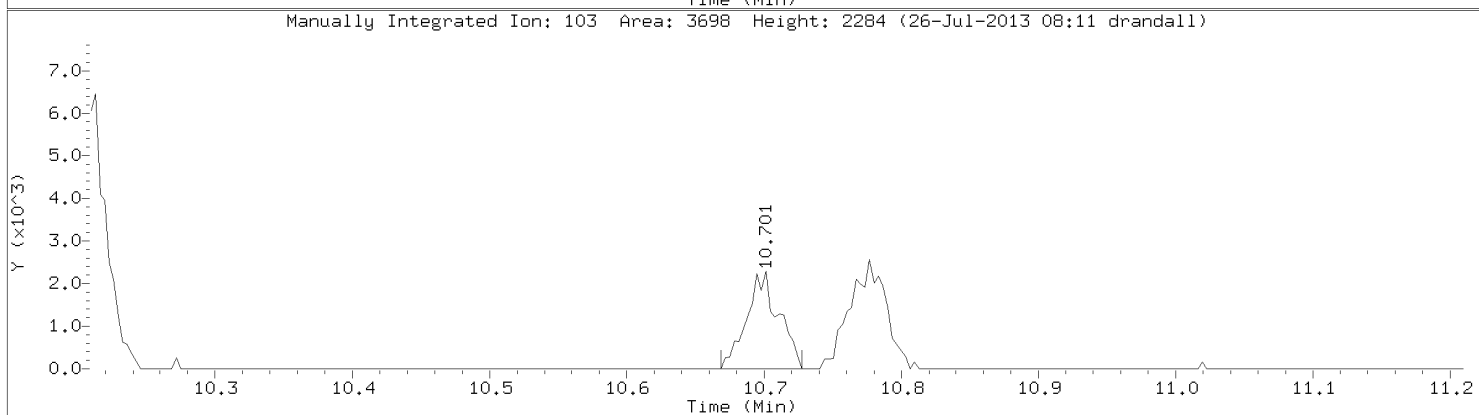
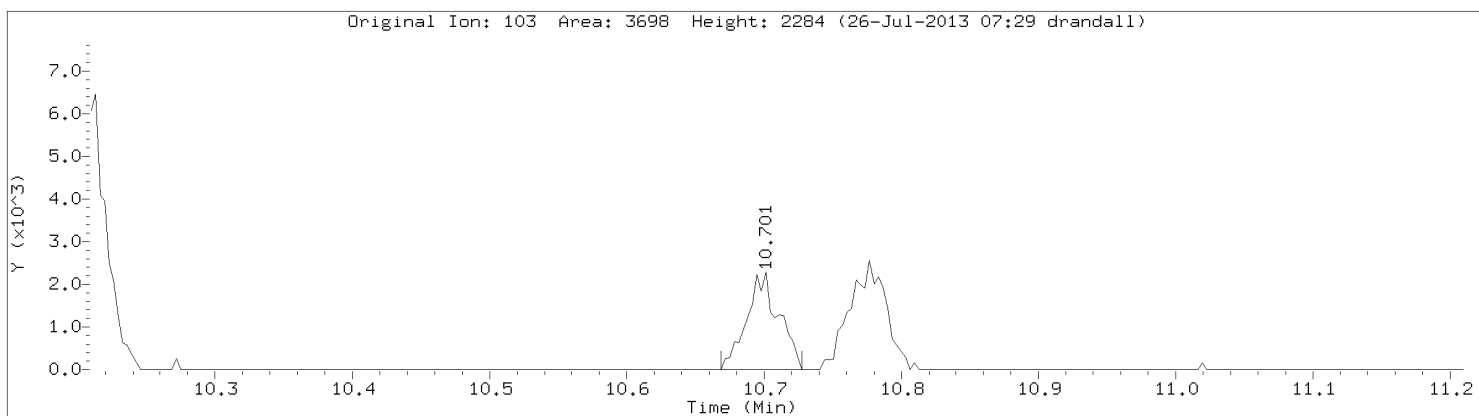


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Injection Date: 25-JUL-2013 22:27
Instrument: 10airD.i
Lab Sample ID: 10236207011

Compound: Styrene
CAS Number: 100-42-5

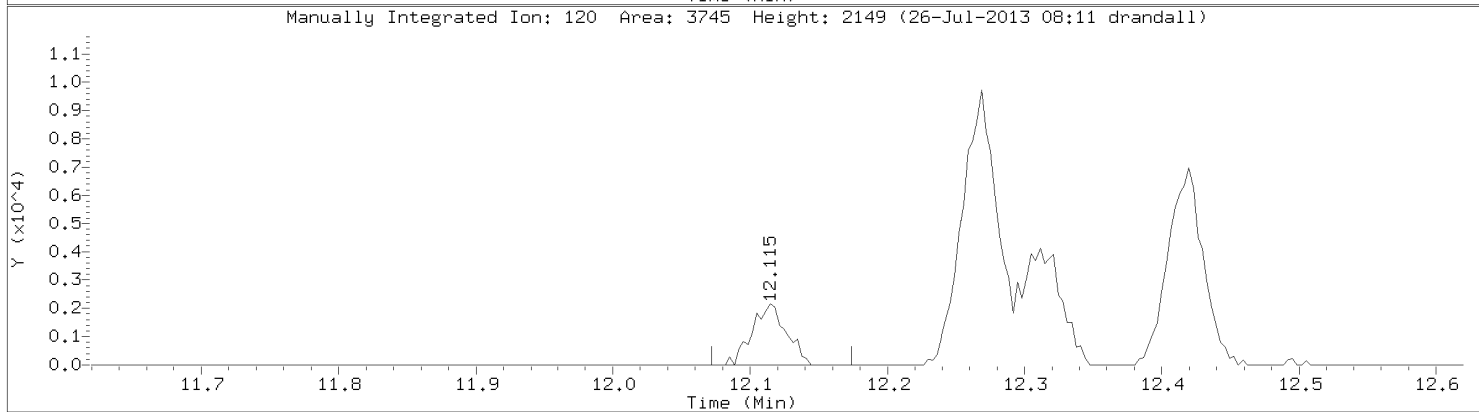
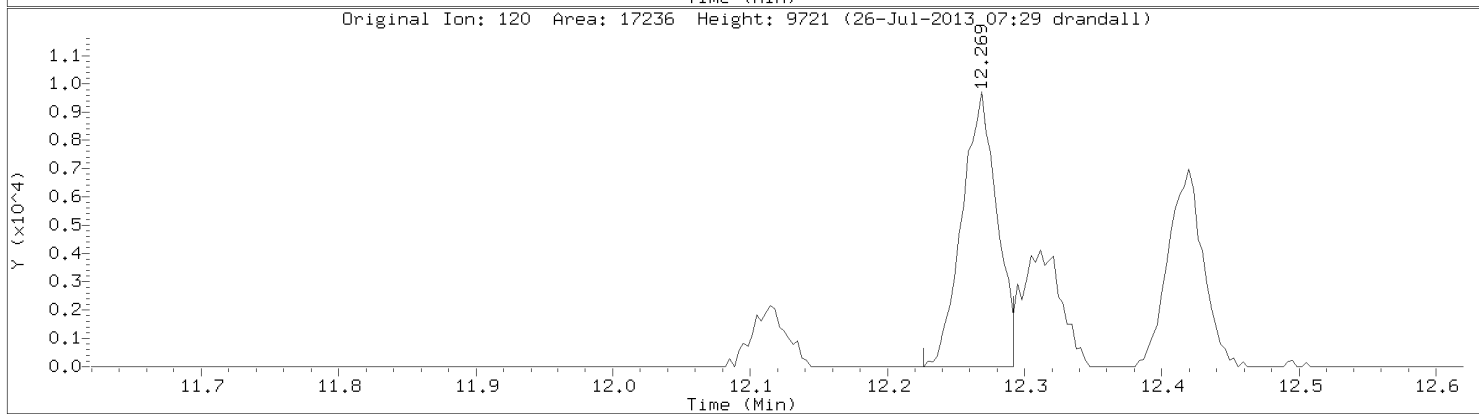
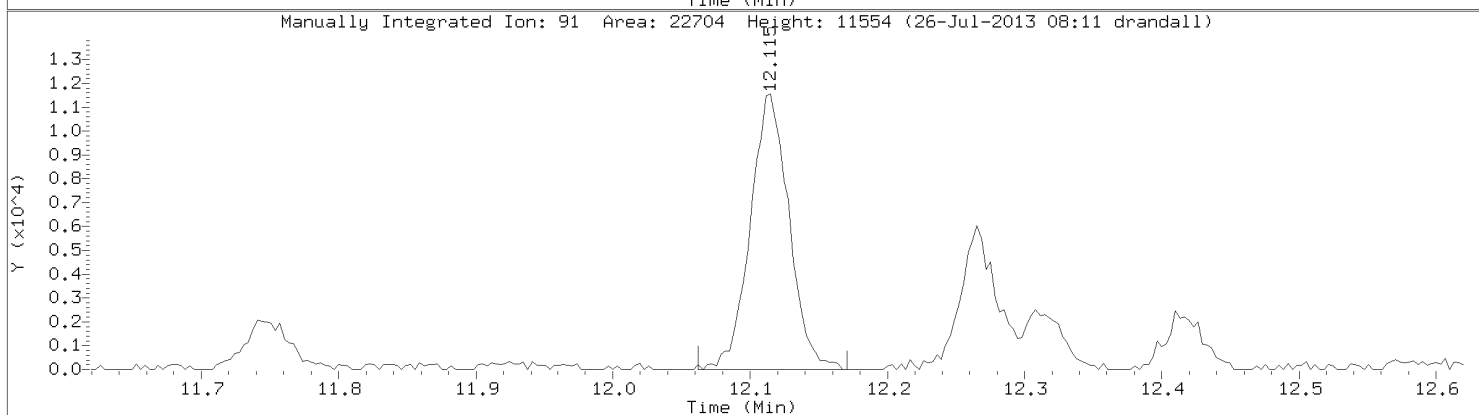
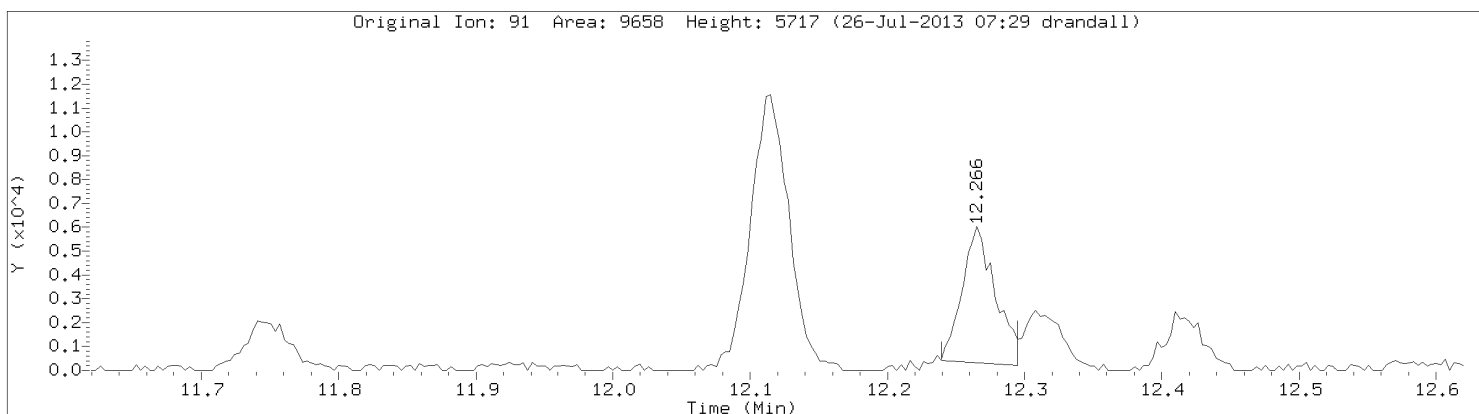


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Injection Date: 25-JUL-2013 22:27
Instrument: 10airD.i
Lab Sample ID: 10236207011



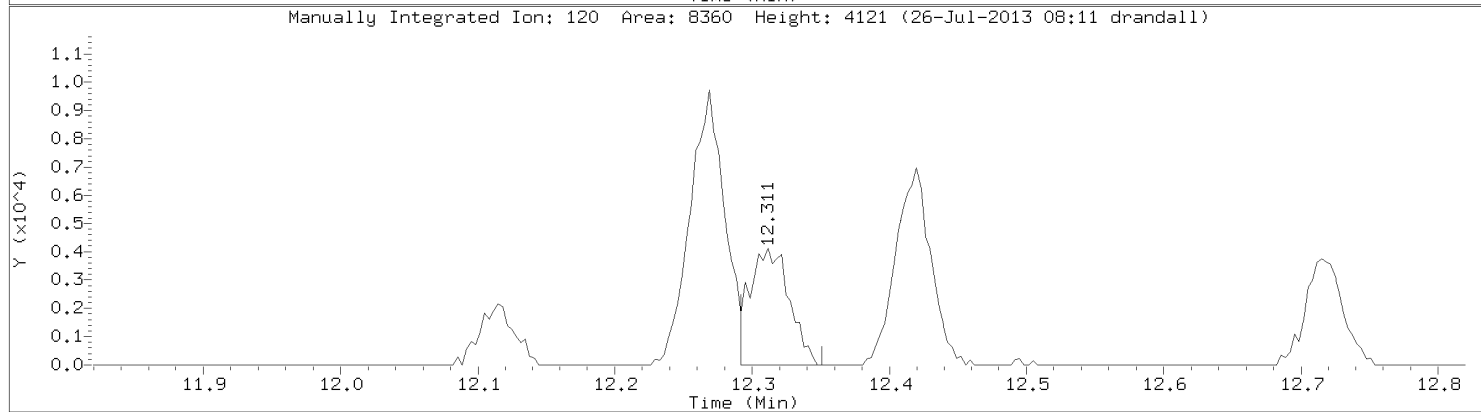
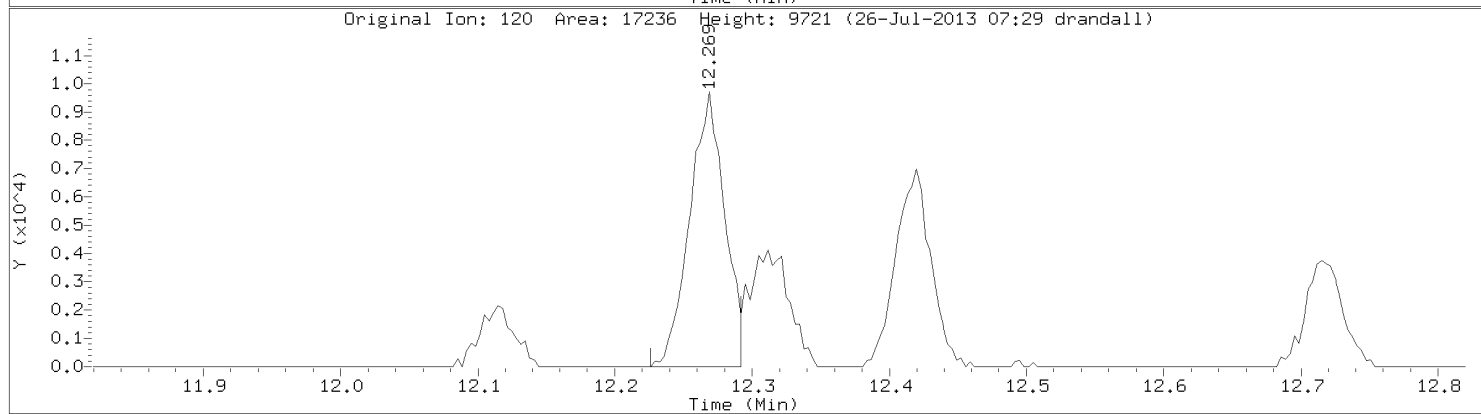
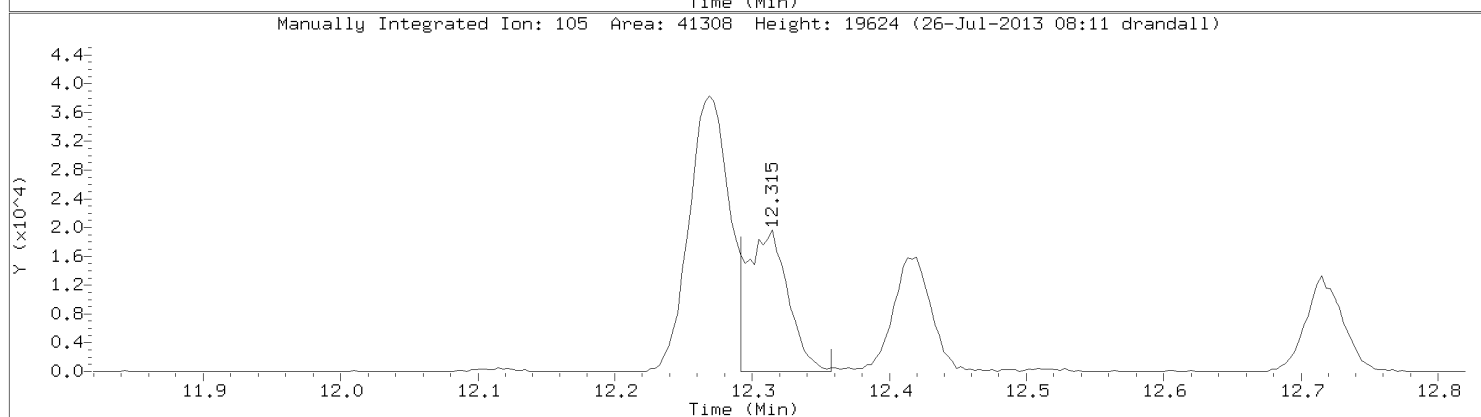
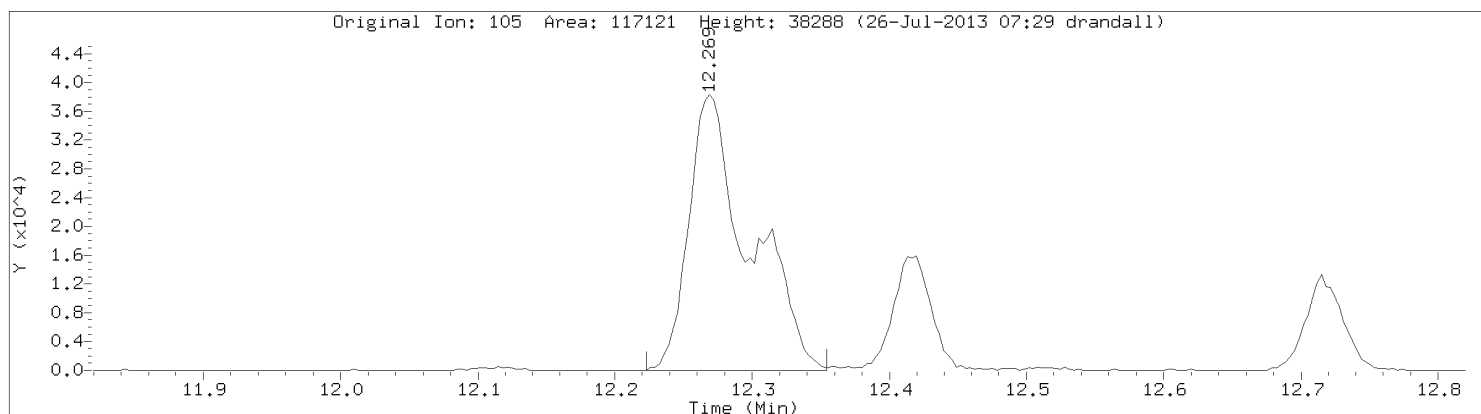
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Injection Date: 25-JUL-2013 22:27
Instrument: 10airD.i
Lab Sample ID: 10236207011

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

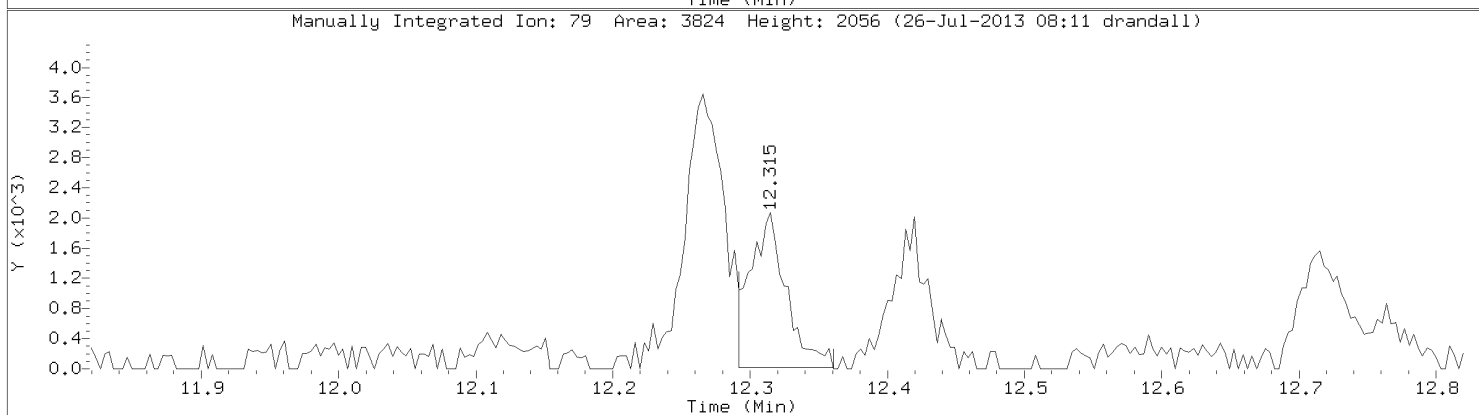
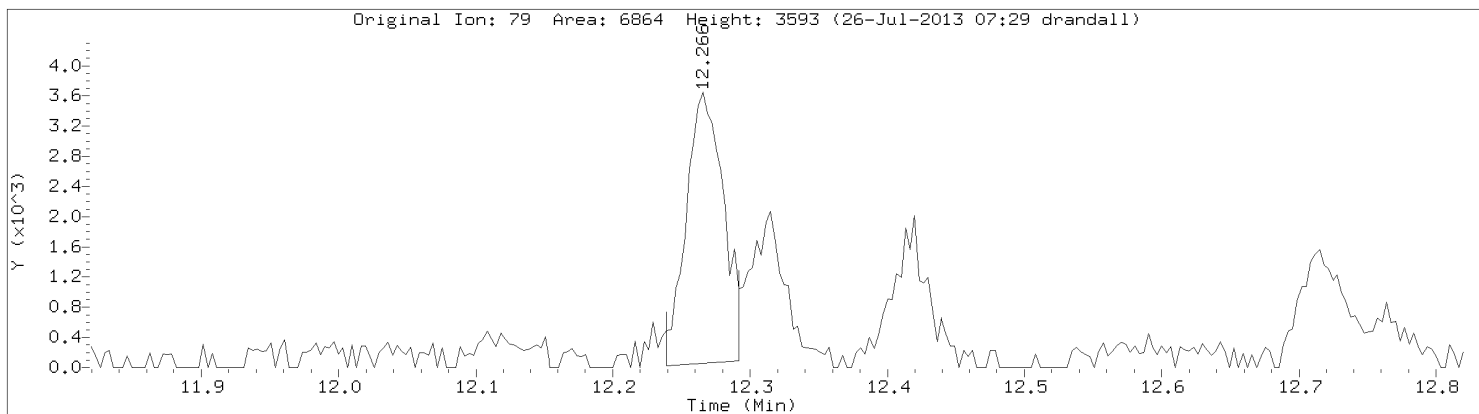


Data File: \\192.168.10.12\chem\10airD.i\072513.b\20620.d
Injection Date: 25-JUL-2013 22:27
Instrument: 10airD.i
Lab Sample ID: 10236207011

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



Data File: \\192.168.10.12\chem\10airD.i\072513.b\20620.d
Injection Date: 25-JUL-2013 22:27
Instrument: 10airD.i
Lab Sample ID: 10236207011



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072513.b\20616.d
 Lab Smp Id: 10236207012
 Inj Date : 25-JUL-2013 20:25
 Operator : DR1 Inst ID: 10airD.i
 Smp Info :
 Misc Info : 17870
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
 Meth Date : 25-Jul-2013 16:57 creindl Quant Type: ISTD
 Cal Date : 24-JUL-2013 16:39 Cal File: 20509.d
 Als bottle: 16
 Dil Factor: 1.55000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.550	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
1 Propylene	41		2.982	2.982	(0.490)	231329	24.7894	38.4
2 Dichlorodifluoromethane	85		3.004	3.008	(0.494)	23705	0.26396	0.409
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		3.490	3.494	(0.573)	105279	9.84010	15.2
10 Vinyl Bromide	106					Compound Not Detected.		
11 Acrolein	56					Compound Not Detected.		
12 Trichlorofluoromethane	101		3.693	3.694	(0.607)	10245	0.10487	0.162 (M)
13 Acetone	43		3.723	3.726	(0.612)	436834	8.92076	13.8
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		3.978	3.989	(0.654)	42029	0.81812	1.27 (M)
18 Freon 113	101					Compound Not Detected.		
19 Methylene chloride	49		4.090	4.094	(0.672)	6081	0.21918	0.340
20 Allyl Chloride	76					Compound Not Detected.		
21 Carbon Disulfide	76		4.221	4.224	(0.693)	31740	0.39314	0.609
22 trans-1,2-dichloroethene	96					Compound Not Detected.		
23 Methyl Tert Butyl Ether	73					Compound Not Detected.		
24 Vinyl Acetate	43					Compound Not Detected.		

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
25 1,1-Dichloroethane	63		Compound Not Detected.					
\$ 26 Hexane-d14(S)	66		4.697	4.700	(0.772)	313649	8.79336	8.79
27 Methyl Ethyl Ketone	72		4.769	4.779	(0.783)	39965	3.52514	5.46 (M)
28 n-Hexane	57		4.811	4.818	(0.790)	43702	1.34778	2.09 (QM)
29 cis-1,2-Dichloroethene	96		Compound Not Detected.					
30 Ethyl Acetate	43		Compound Not Detected.					
31 Chloroform	83		Compound Not Detected.					
32 Tetrahydrofuran	42		Compound Not Detected.					
33 1,1,1-Trichloroethane	97		Compound Not Detected.					
34 1,2-Dichloroethane	62		Compound Not Detected.					
35 Benzene	78		5.877	5.887	(0.966)	61845	1.28829	2.00
36 Carbon tetrachloride	117		Compound Not Detected.					
37 Cyclohexane	56		5.916	5.910	(0.972)	6193	0.69755	1.08 (QM)
* 38 1,4-Difluorobenzene	114		6.087	6.094	(1.000)	738648	10.0000	
39 2,2,4-Trimethylpentane	57		Compound Not Detected.					
40 Heptane	43		6.431	6.442	(1.057)	11435	0.87770	1.36
41 1,2-Dichloropropane	63		Compound Not Detected.					
42 Trichloroethene	130		Compound Not Detected.					
43 1,4-Dioxane	88		Compound Not Detected.					
44 Bromodichloromethane	83		Compound Not Detected.					
45 Methyl Isobutyl Ketone	43		7.228	7.229	(1.187)	7926	0.60393	0.936 (M)
46 cis-1,3-Dichloropropene	75		Compound Not Detected.					
47 trans-1,3-Dichloropropene	75		Compound Not Detected.					
\$ 48 Toluene-d8 (S)	98		7.841	7.848	(1.288)	516603	10.0142	10.0
49 Toluene	91		7.933	7.940	(1.303)	187547	2.49558	3.87
50 1,1,2-Trichloroethane	97		Compound Not Detected.					
51 Methyl Butyl Ketone	43		8.248	8.244	(0.852)	10665	0.62809	0.974
52 Dibromochloromethane	129		Compound Not Detected.					
53 1,2-Dibromoethane	107		Compound Not Detected.					
54 Tetrachloroethene	166		8.910	8.918	(0.920)	6650	0.53118	0.823 (M)
* 55 Chlorobenzene - d5	117		9.684	9.691	(1.000)	274276	10.0000	
56 Chlorobenzene	112		Compound Not Detected.					
57 Ethyl Benzene	91		10.035	10.039	(1.036)	72363	0.98319	1.52
58 m&p-Xylene	91		10.203	10.213	(1.053)	234566	3.01494	4.67
59 Bromoform	173		Compound Not Detected.					
60 Styrene	104		10.698	10.708	(1.105)	8348	0.61652	0.956 (M)
61 o-Xylene	91		10.773	10.783	(1.112)	77451	1.07003	1.66
62 1,1,2,2-Tetrachloroethane	83		Compound Not Detected.					
63 Isopropylbenzene	105		Compound Not Detected.					
64 N-Propylbenzene	91		12.111	12.121	(1.251)	24663	0.48438	0.751 (M)
65 4-Ethyltoluene	105		12.308	12.321	(1.271)	33009	0.64835	1.00 (M)
66 1,3,5-Trimethylbenzene	105		12.416	12.426	(1.282)	29065	0.61757	0.957 (M)
67 1,2,4-Trimethylbenzene	105		13.016	13.020	(1.344)	137610	1.93250	3.00
68 1,3-Dichlorobenzene	146		Compound Not Detected.					
69 Sec- Butylbenzene	105		Compound Not Detected.					
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.449	13.459	(1.389)	104138	9.40635	9.41
71 Benzyl Chloride	91		Compound Not Detected.					
72 1,4-Dichlorobenzene	146		Compound Not Detected.					
73 1,2-Dichlorobenzene	146		Compound Not Detected.					
74 N-Butylbenzene	91		Compound Not Detected.					
75 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
76 Naphthalene	128		16.856	16.860	(1.741)	50774	1.55373	2.41 (M)
77 Hexachlorobutadiene	225		Compound Not Detected.					

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20616.d
Report Date: 26-Jul-2013 07:58

QC Flag Legend

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

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20616.d
Report Date: 26-Jul-2013 07:58

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 20616.d
Lab Smp Id: 10236207012
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
Misc Info: 17870

Calibration Date: 25-JUL-2013
Calibration Time: 13:08

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	738648	27.40
55 Chlorobenzene - d	221404	132842	309966	274276	23.88

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	-0.05
55 Chlorobenzene - d	9.69	9.36	10.02	9.68	-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\072513.b\20616.D

Date : 25-JUL-2013 20:25

Client ID:

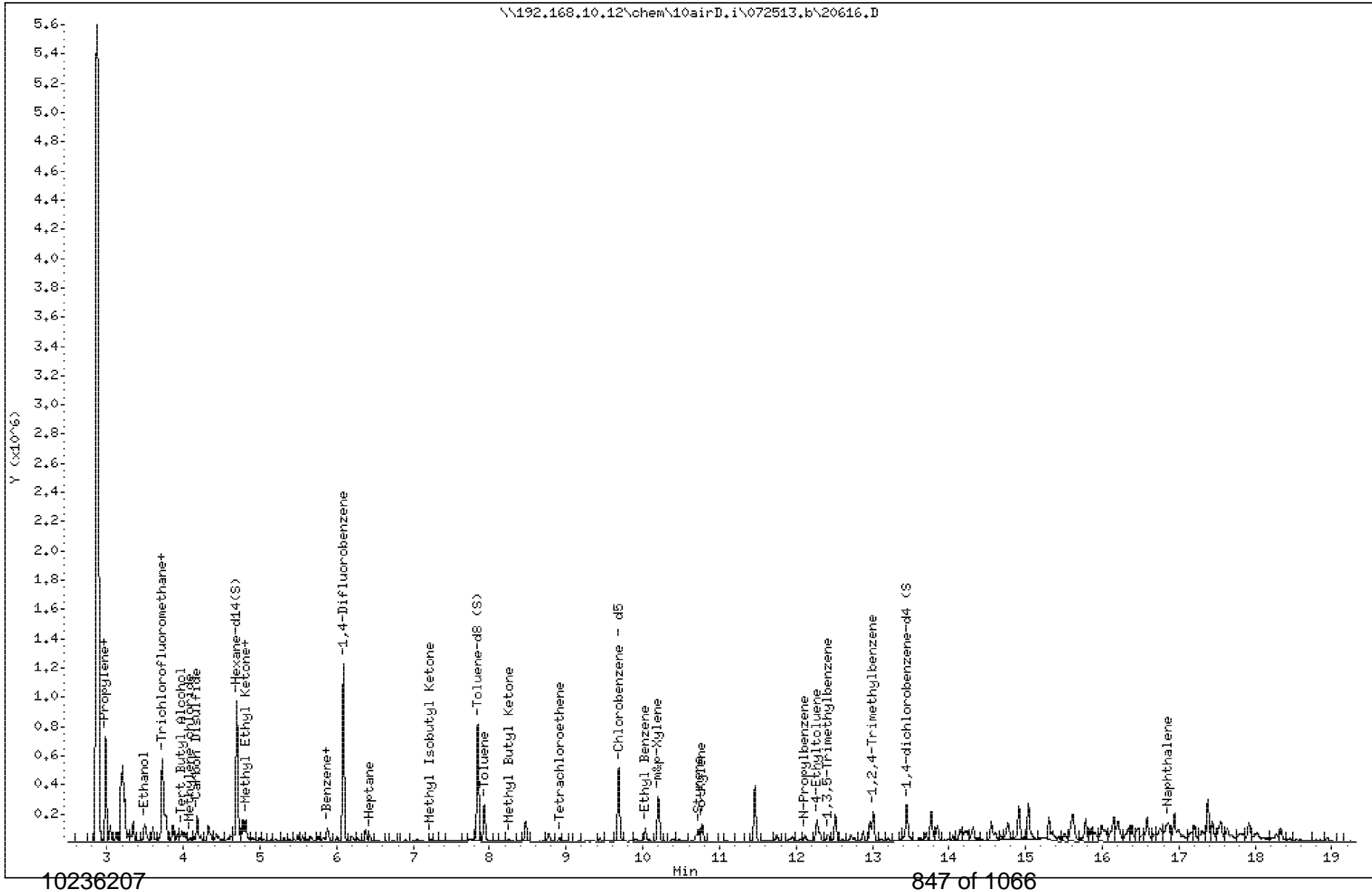
Instrument: 10airD.i

Sample Info:

Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20616.D

Date : 25-JUL-2013 20:25

Client ID:

Instrument: 10airD.i

Sample Info:

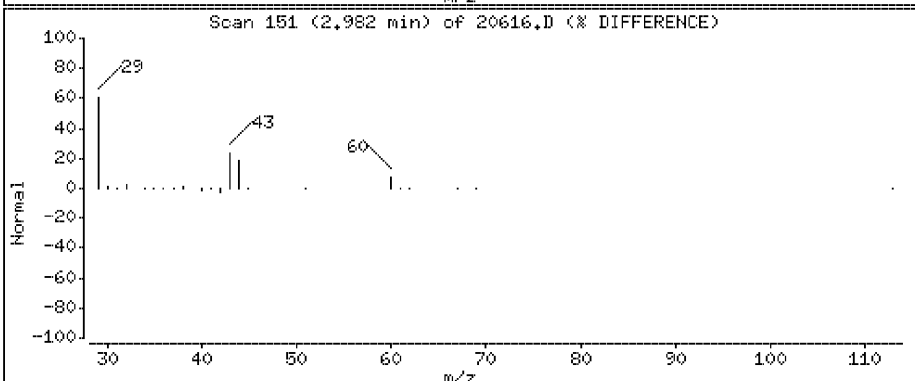
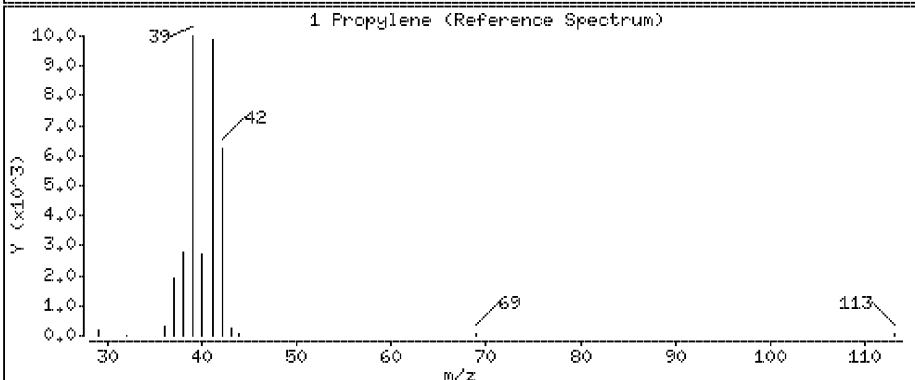
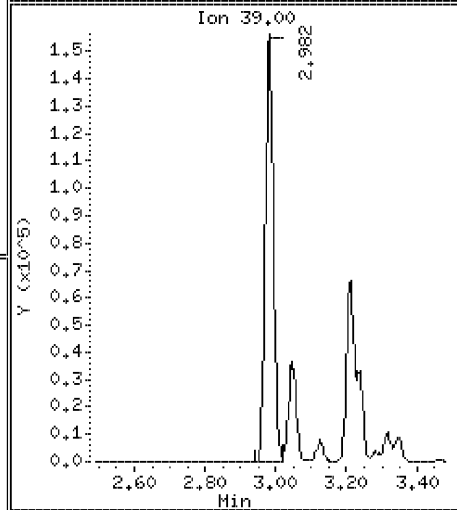
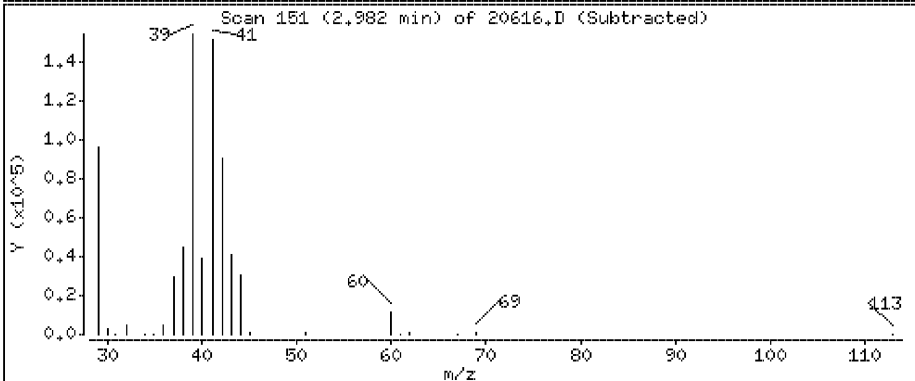
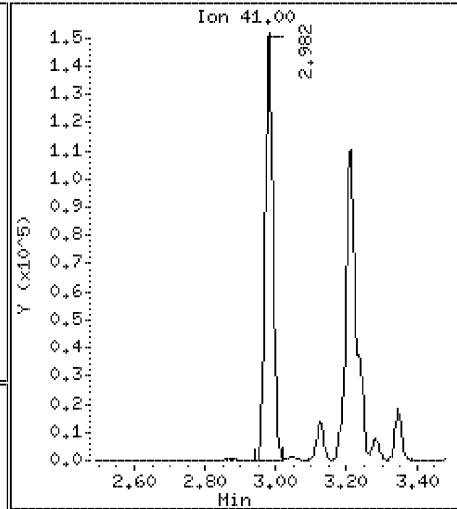
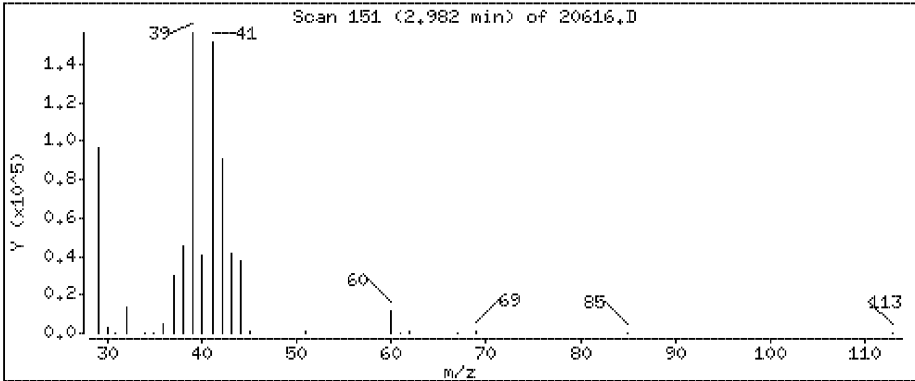
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

1 Propylene

Concentration: 38,4 ppbv



Data File: \\192.168.10.12\chem\10airD,i\072513,b\20616.D

Date : 25-JUL-2013 20:25

Client ID:

Instrument: 10airD,i

Sample Info:

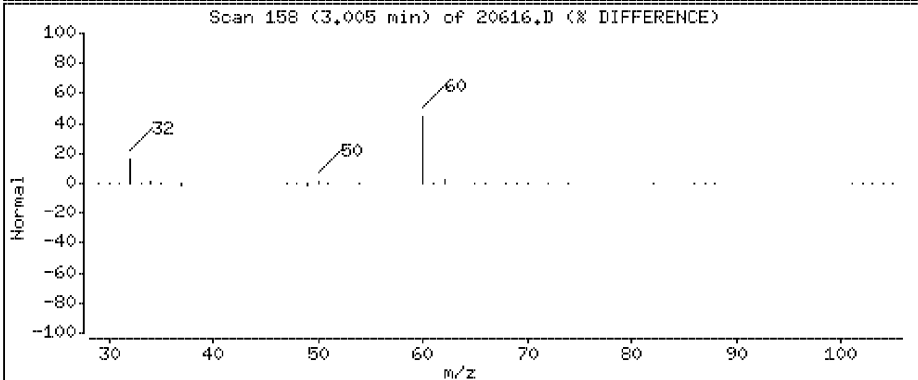
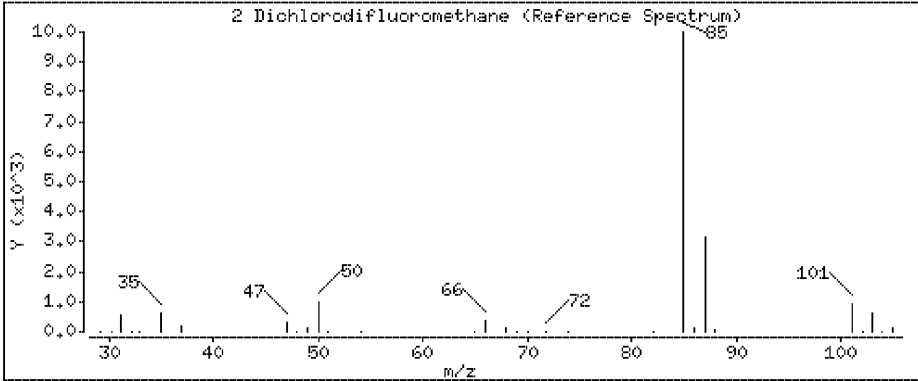
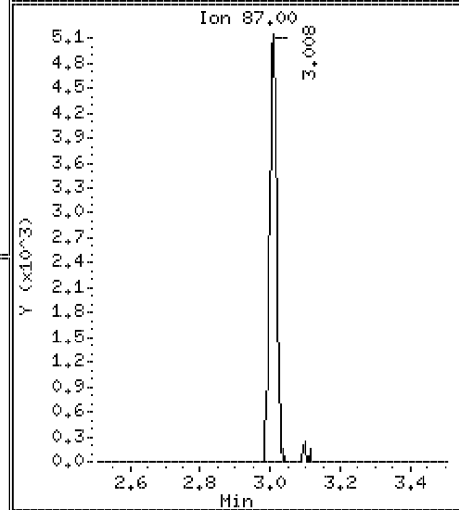
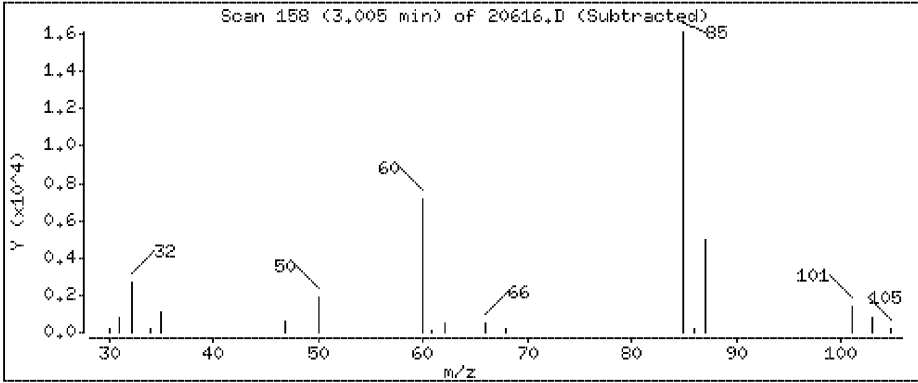
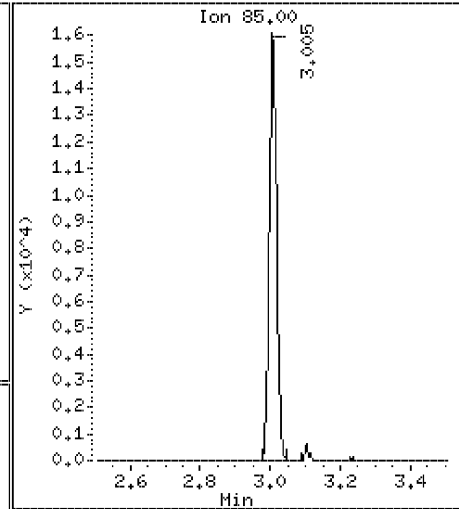
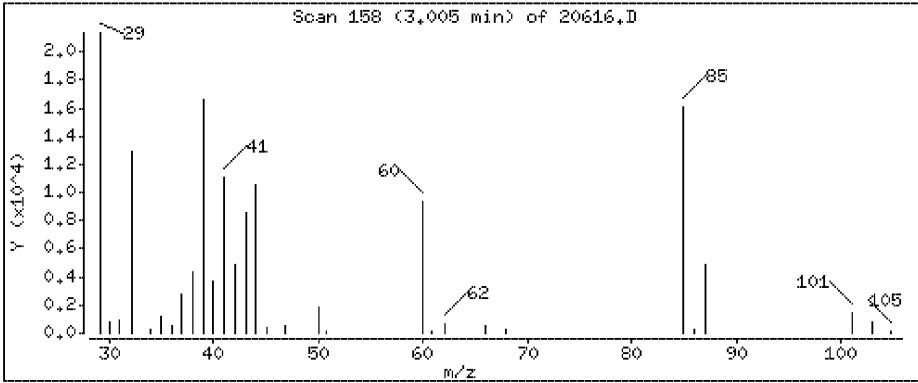
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

2 Dichlorodifluoromethane

Concentration: 0,409 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20616.D

Date : 25-JUL-2013 20:25

Client ID:

Instrument: 10airD.i

Sample Info:

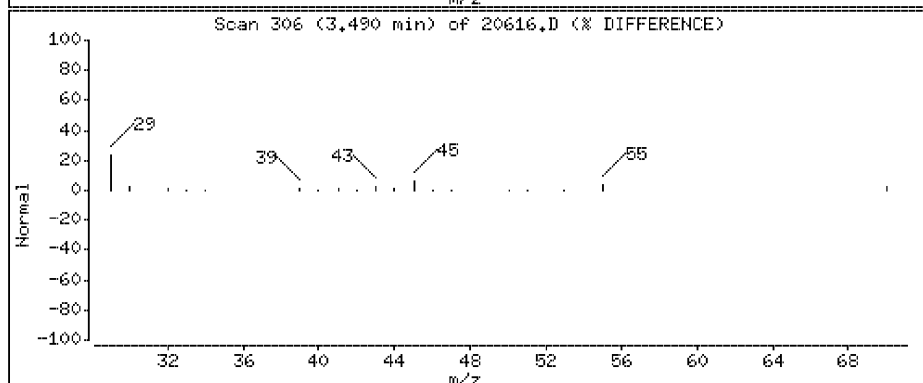
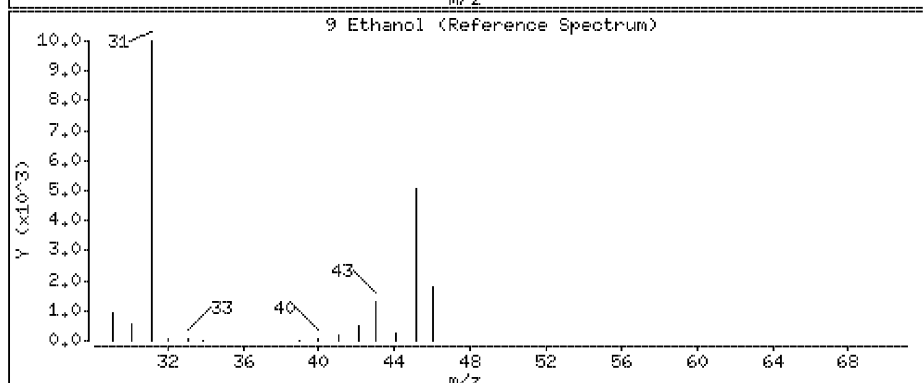
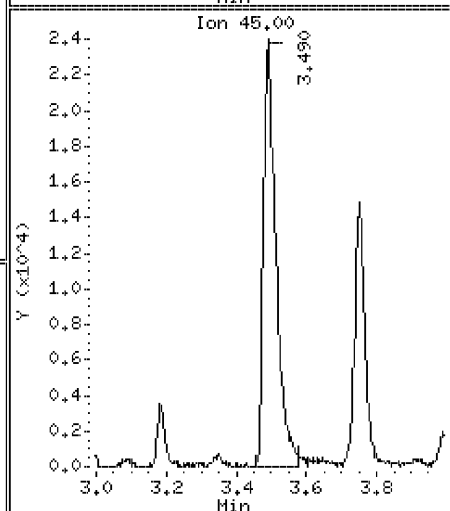
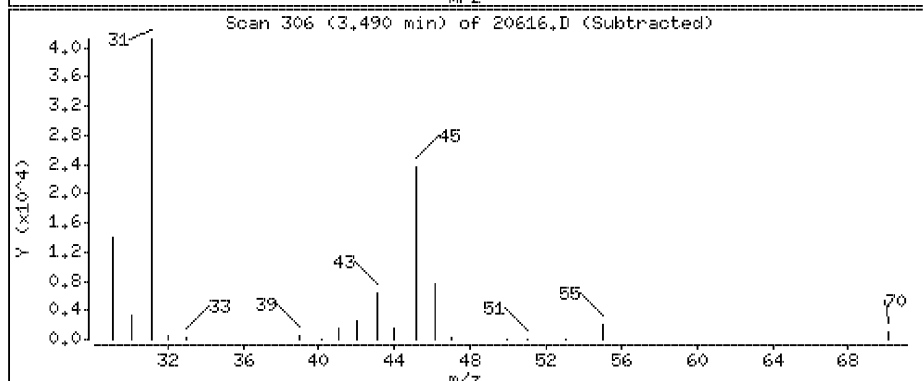
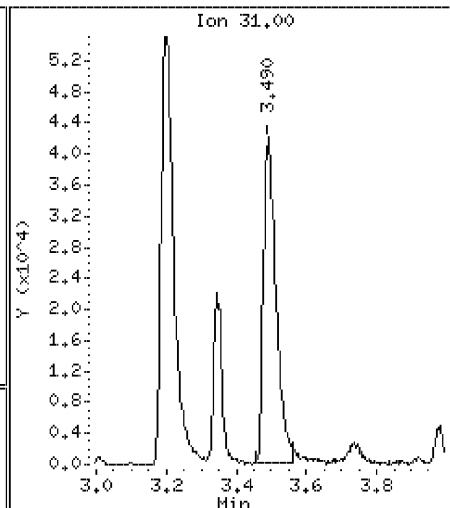
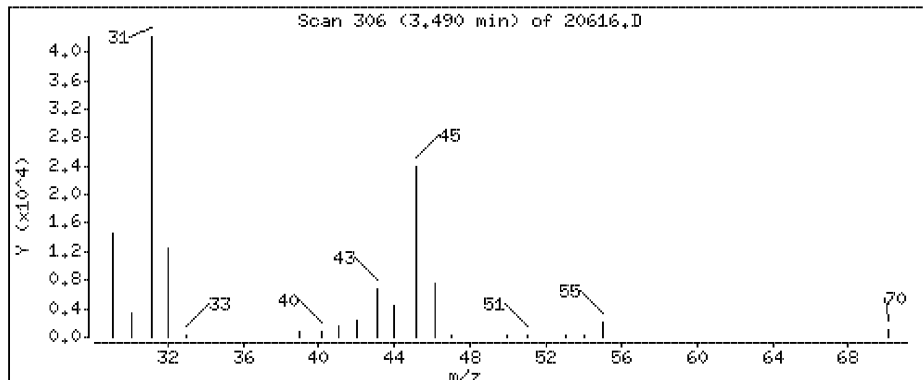
Operator: DR1

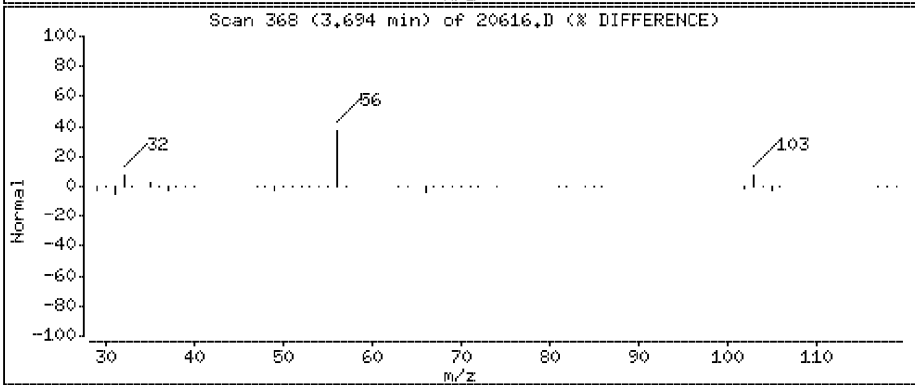
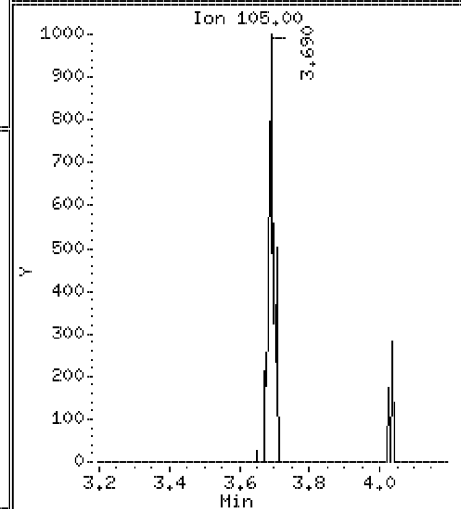
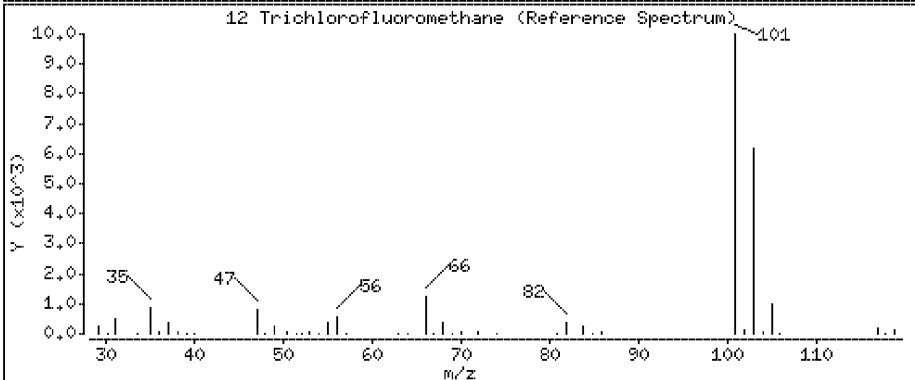
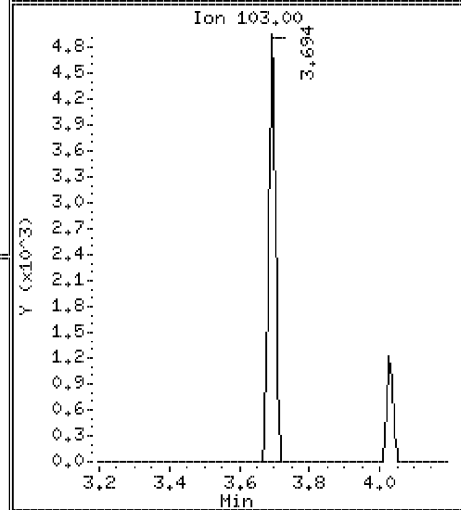
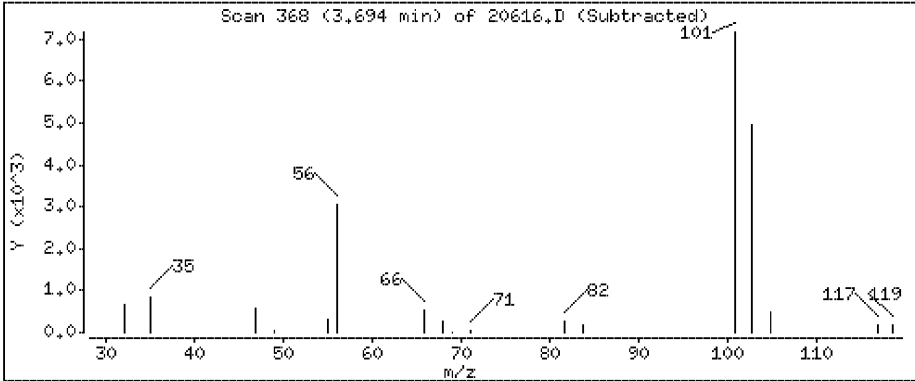
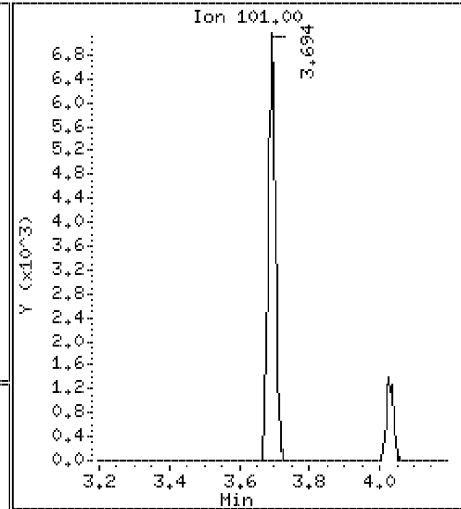
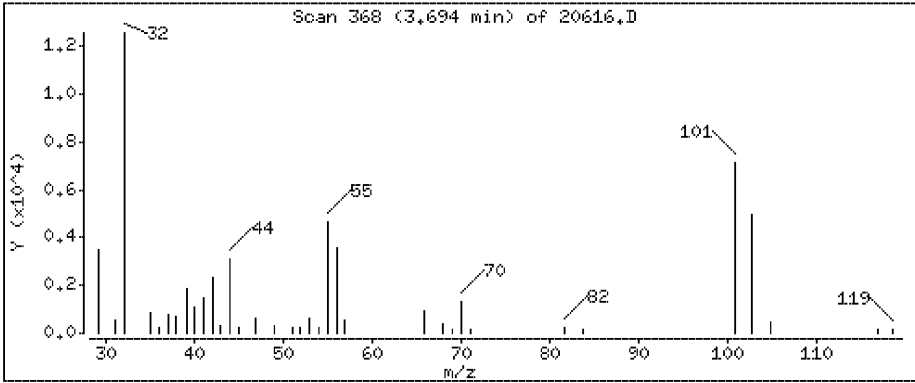
Column phase: J&W DB-5

Column diameter: 0,32

9 Ethanol

Concentration: 15,2 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20616.D

Date : 25-JUL-2013 20:25

Client ID:

Instrument: 10airD.i

Sample Info:

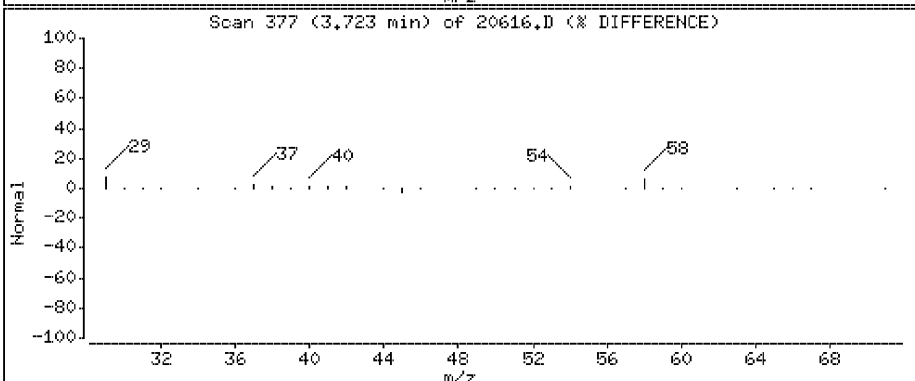
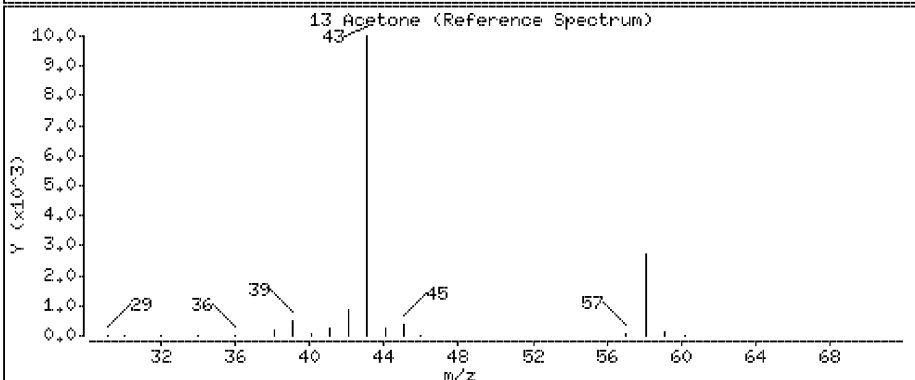
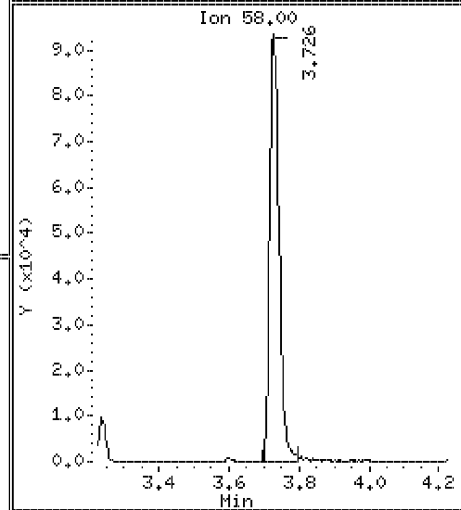
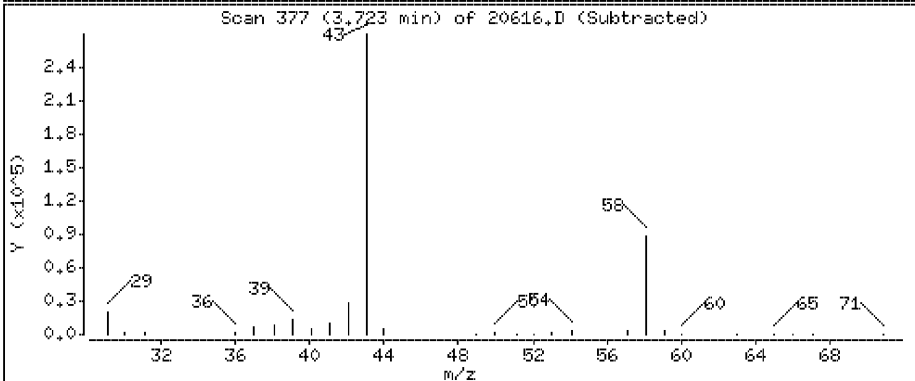
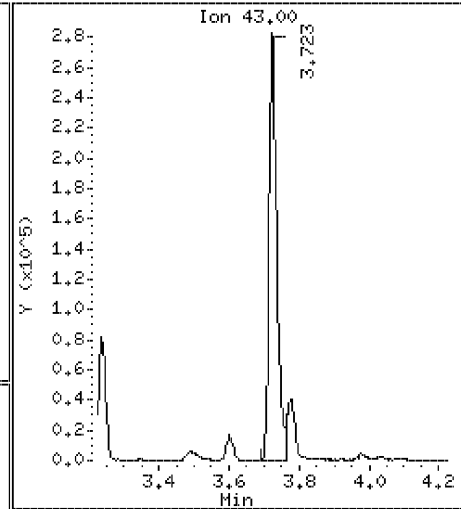
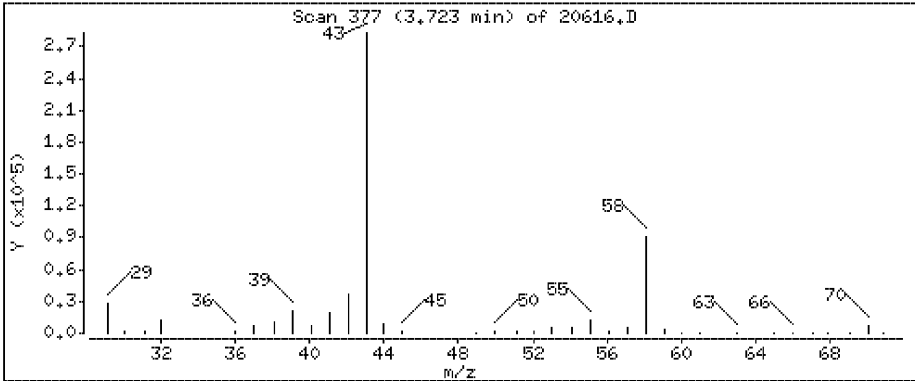
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

13 Acetone

Concentration: 13,8 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20616.D

Date : 25-JUL-2013 20:25

Client ID:

Instrument: 10airD.i

Sample Info:

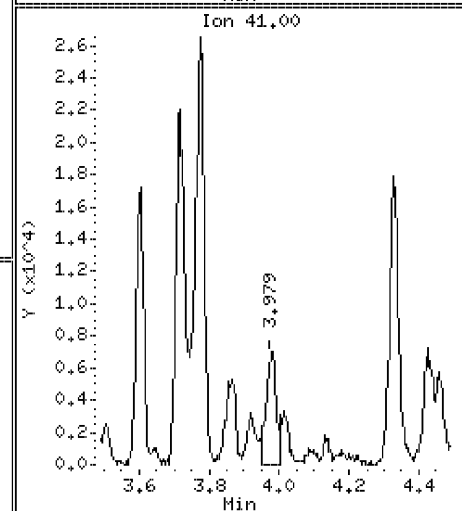
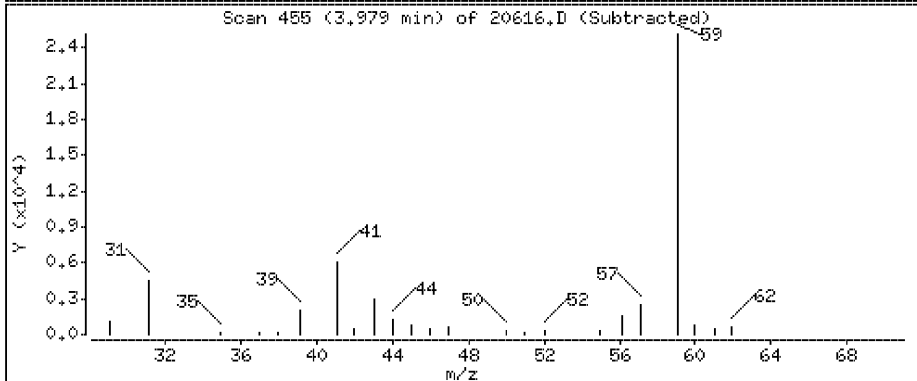
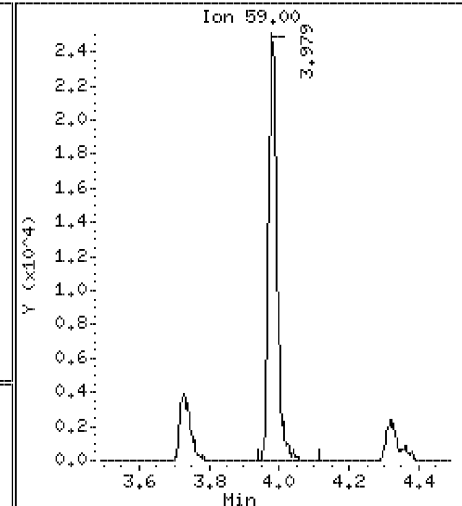
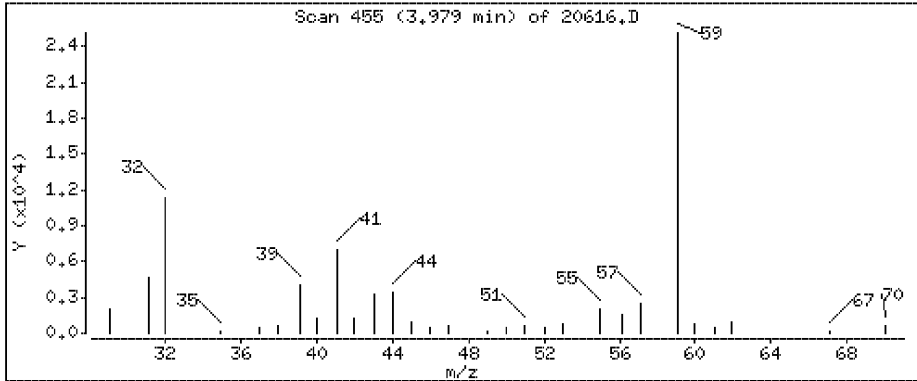
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

17 Tert Butyl Alcohol

Concentration: 1,27 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20616.D

Date : 25-JUL-2013 20:25

Client ID:

Instrument: 10airD.i

Sample Info:

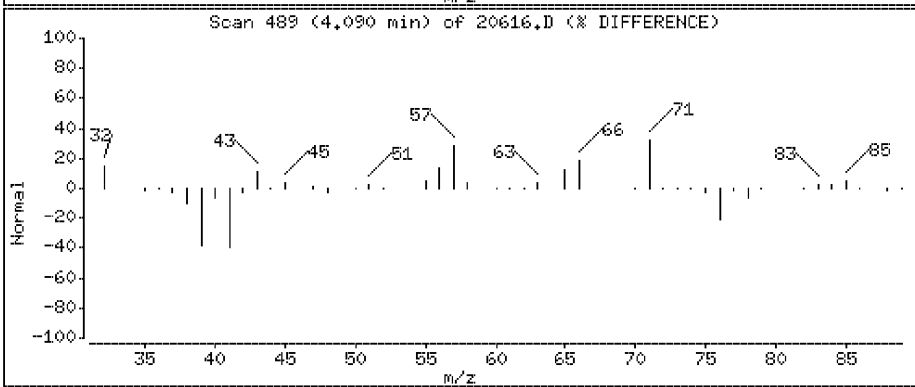
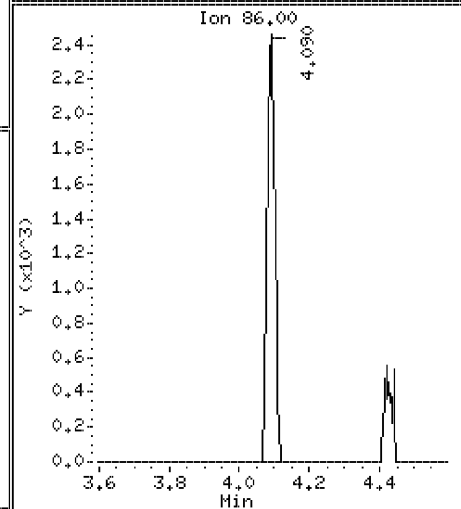
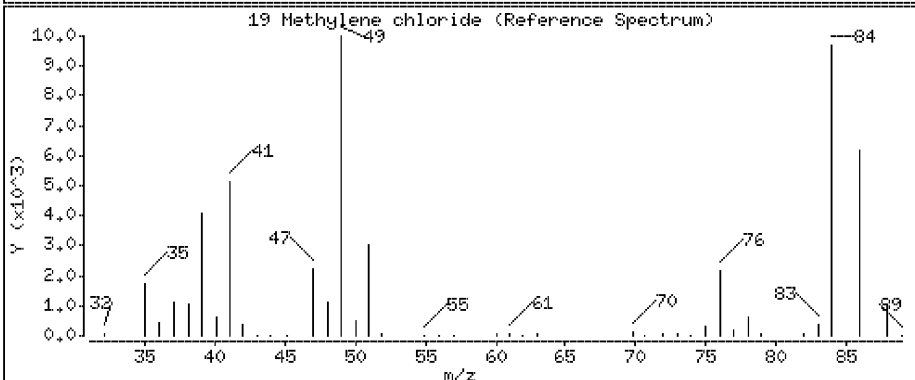
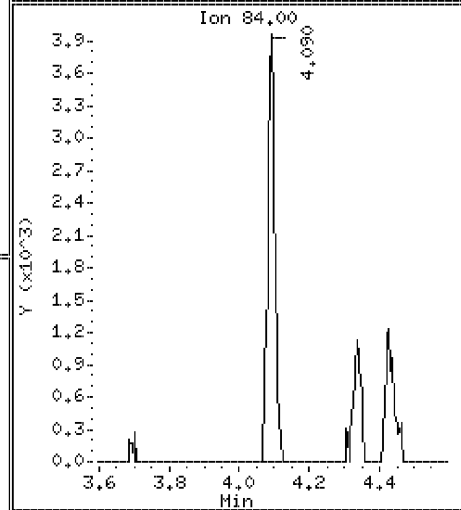
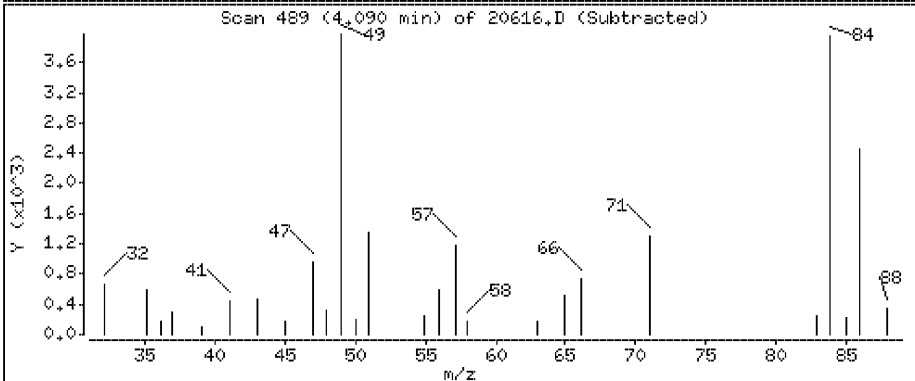
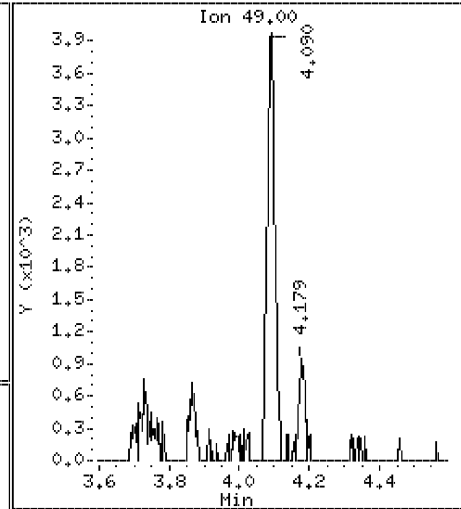
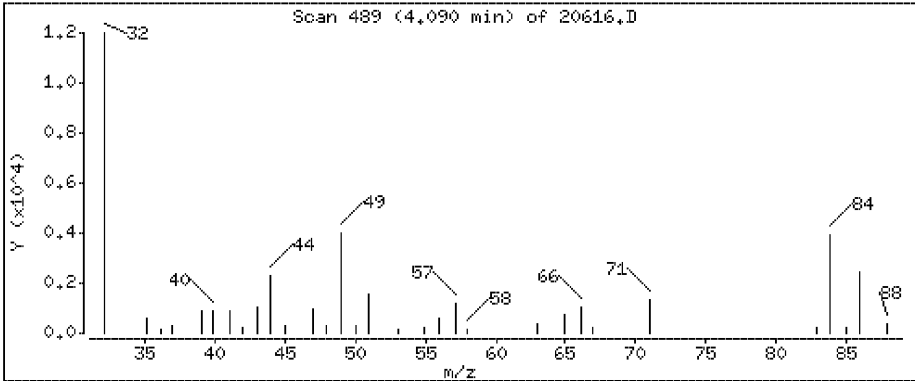
Operator: DR1

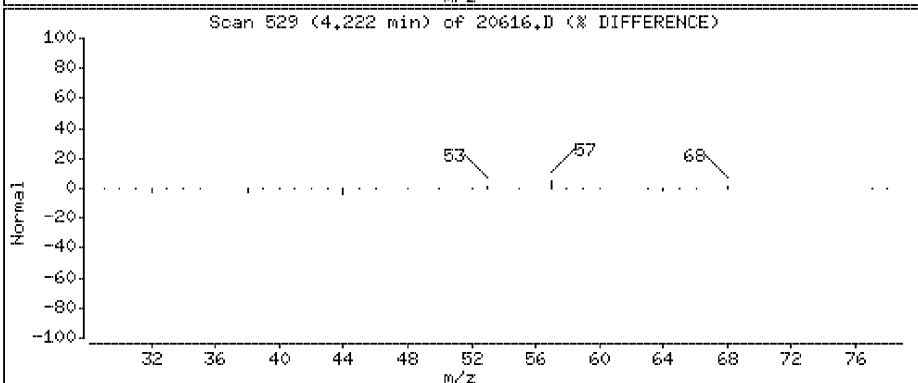
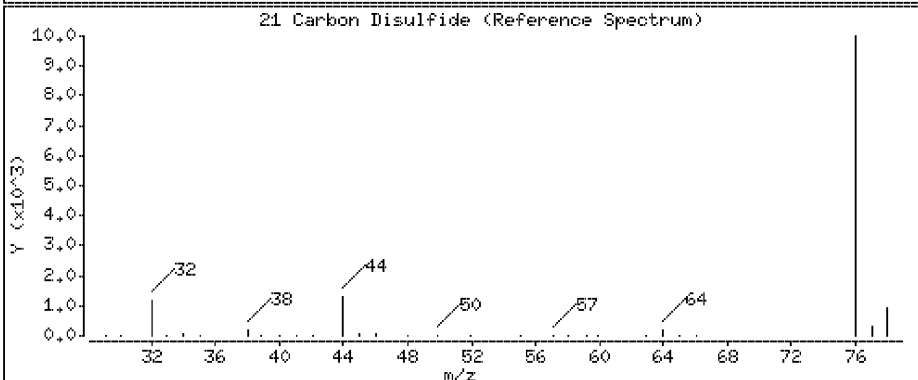
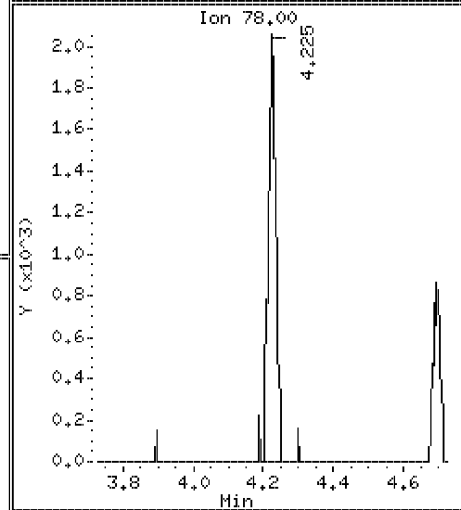
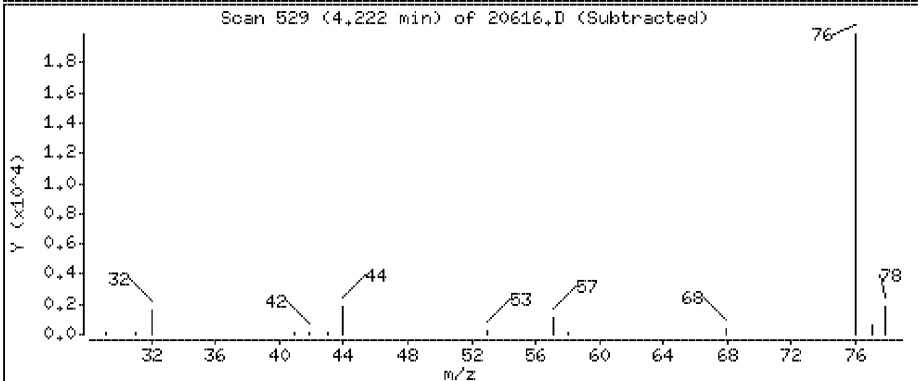
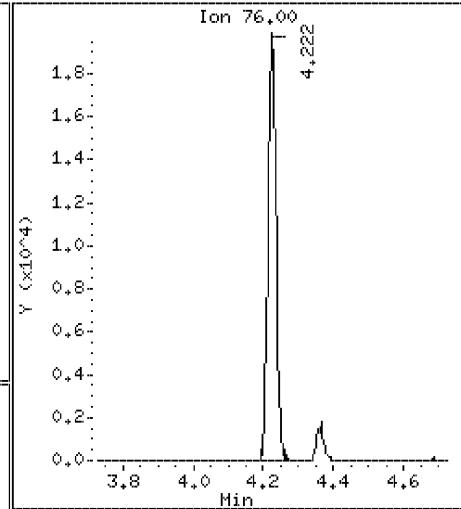
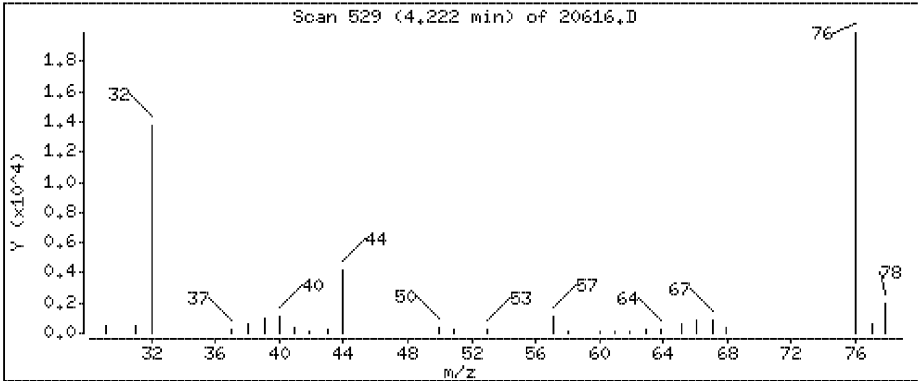
Column phase: J&W DB-5

Column diameter: 0.32

19 Methylene chloride

Concentration: 0.340 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20616.D

Date : 25-JUL-2013 20:25

Client ID:

Instrument: 10airD.i

Sample Info:

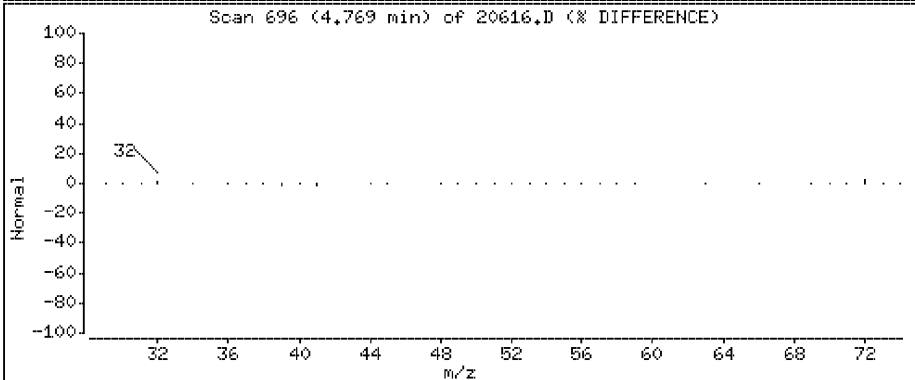
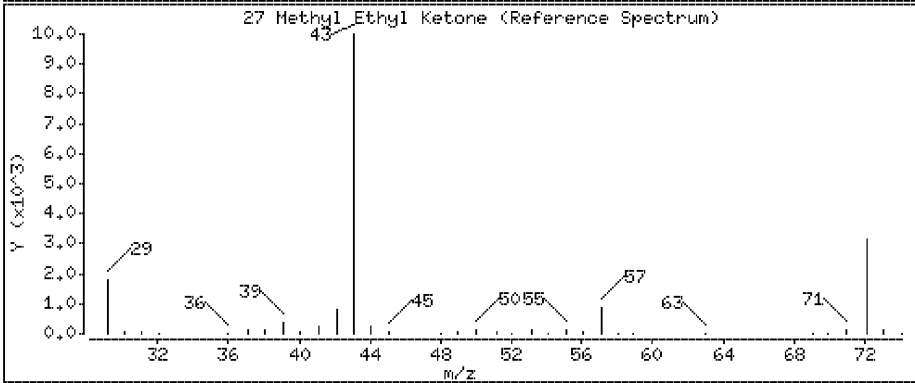
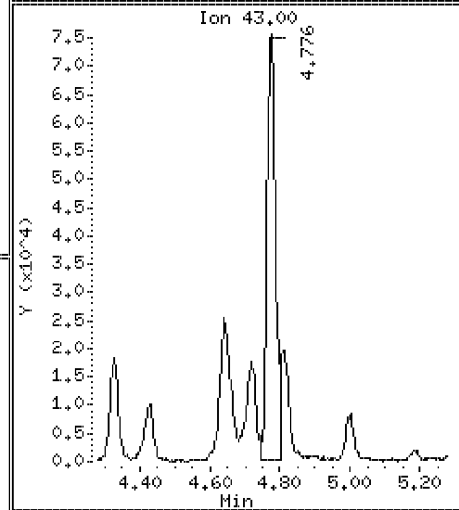
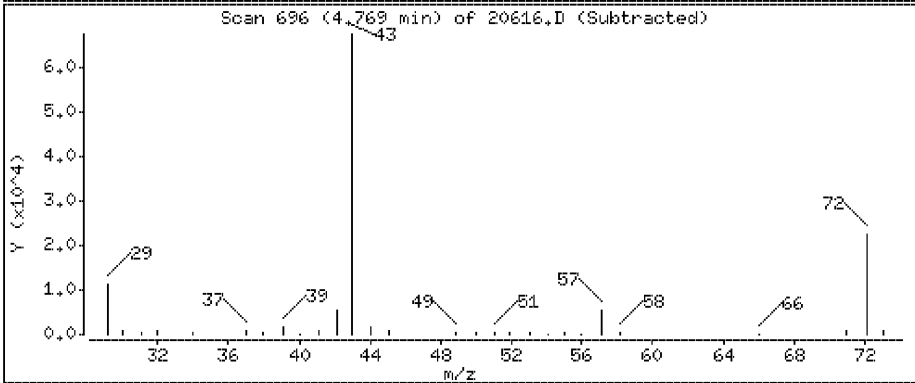
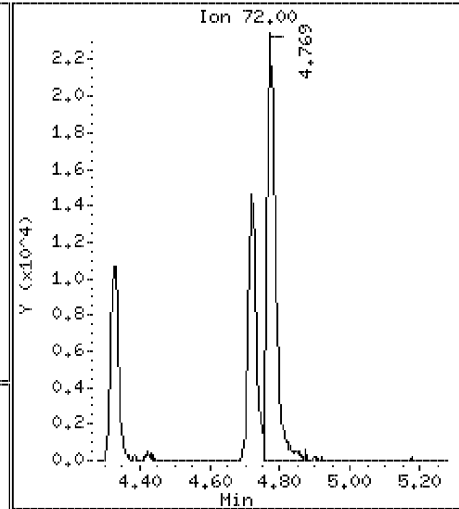
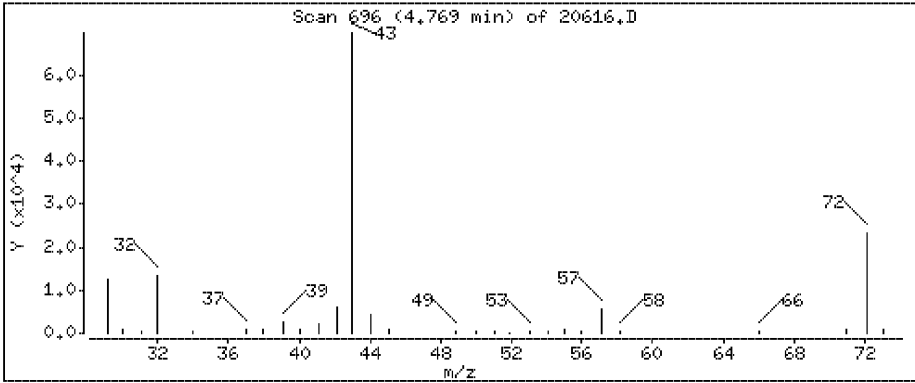
Operator: DR1

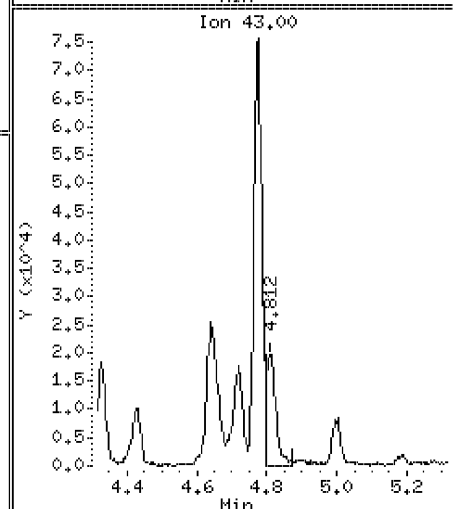
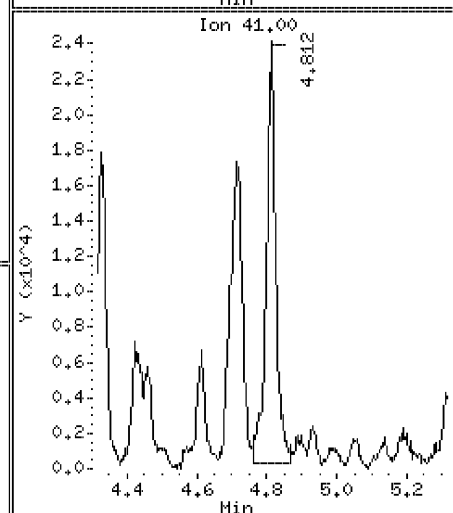
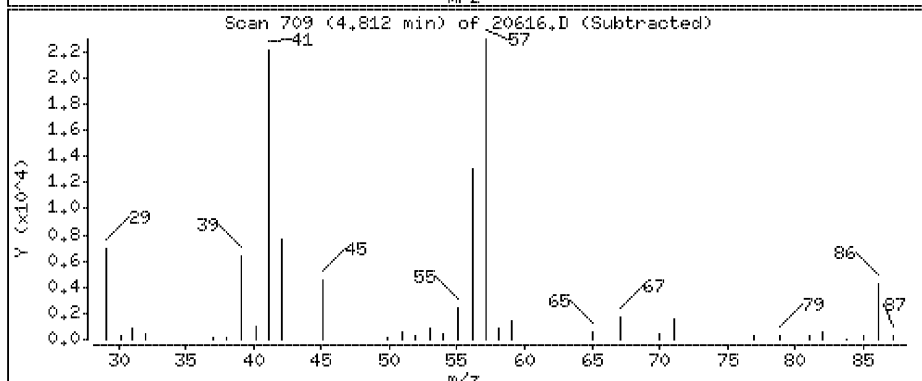
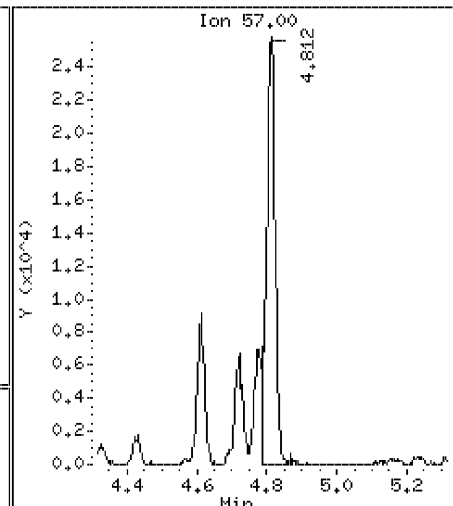
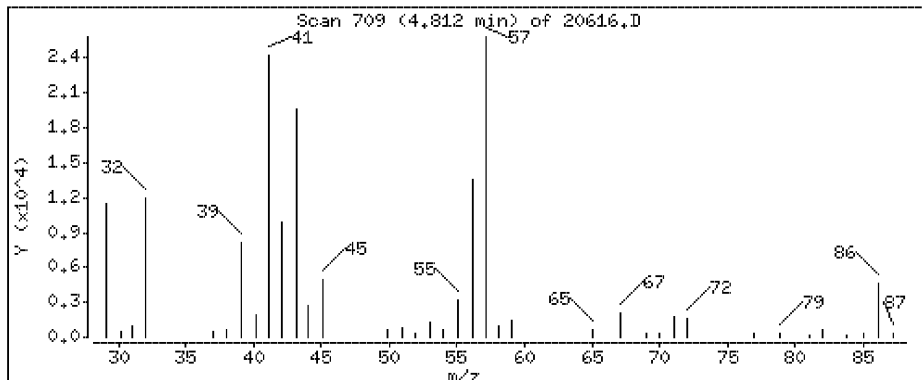
Column phase: J&W DB-5

Column diameter: 0.32

27 Methyl Ethyl Ketone

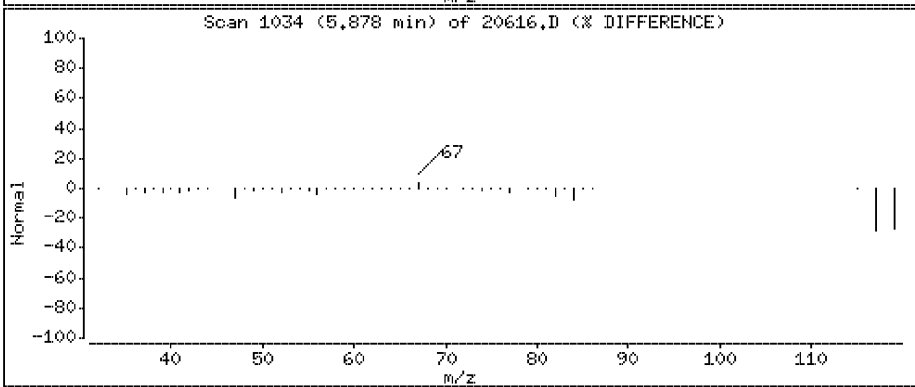
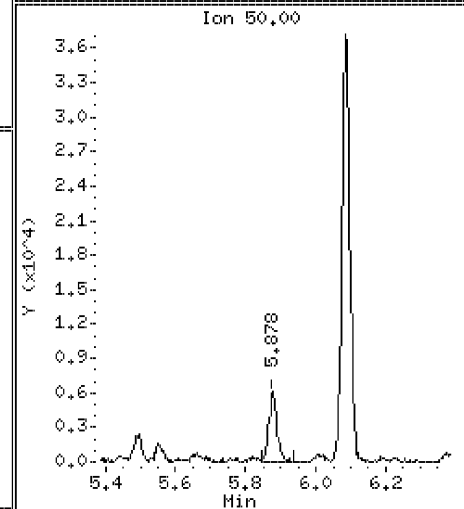
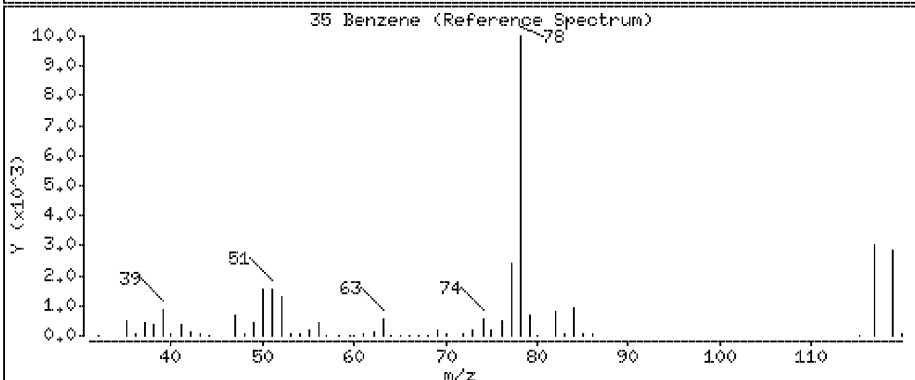
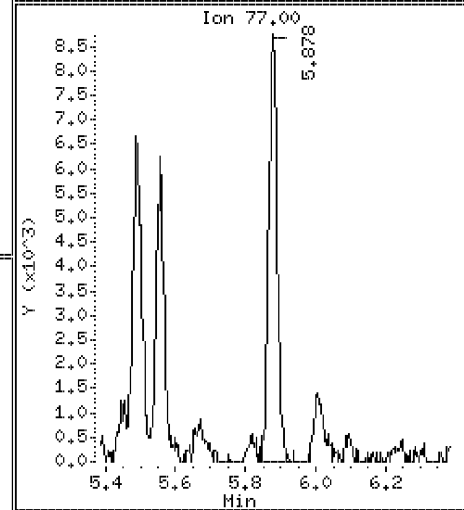
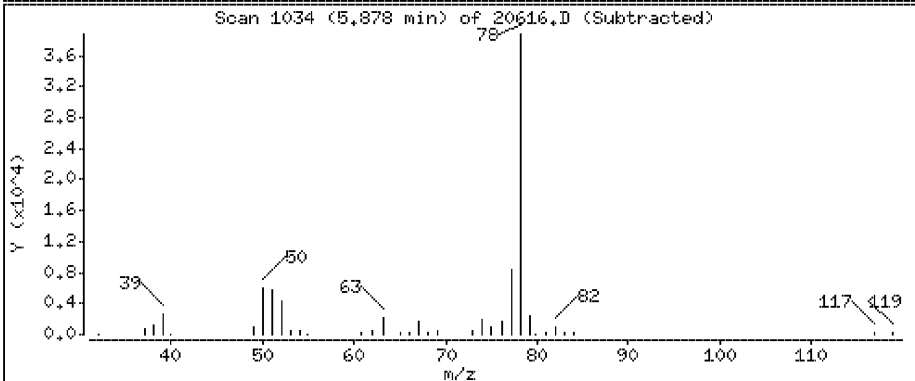
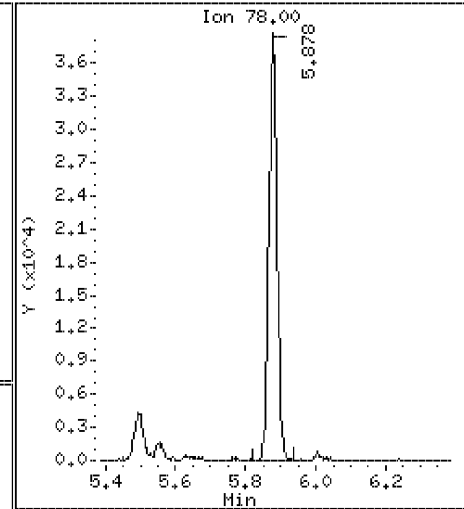
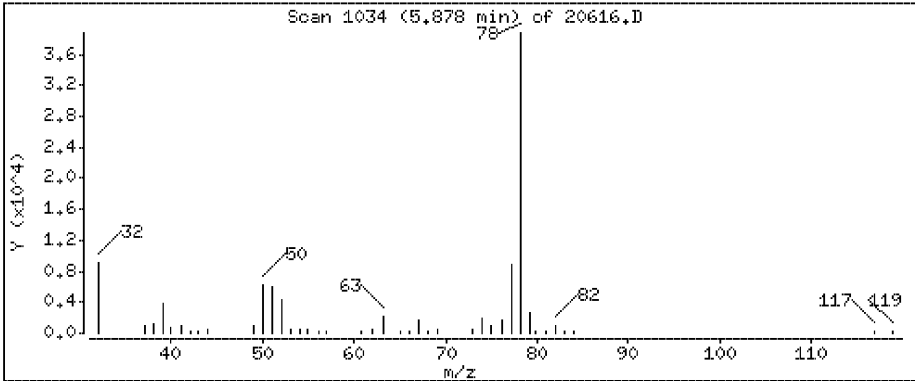
Concentration: 5.46 ppbv

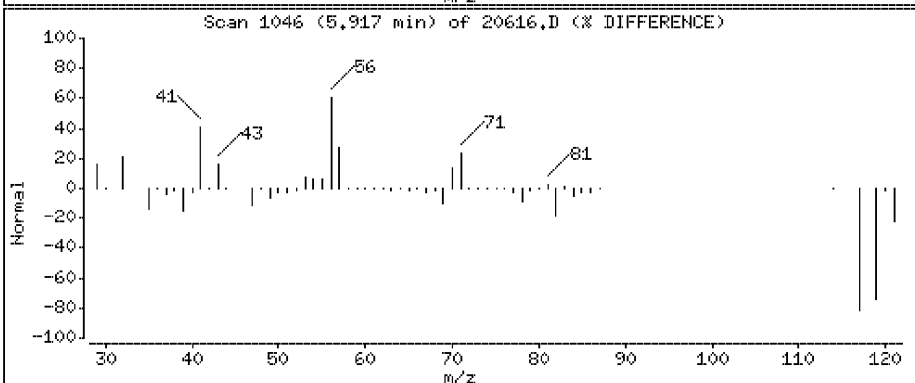
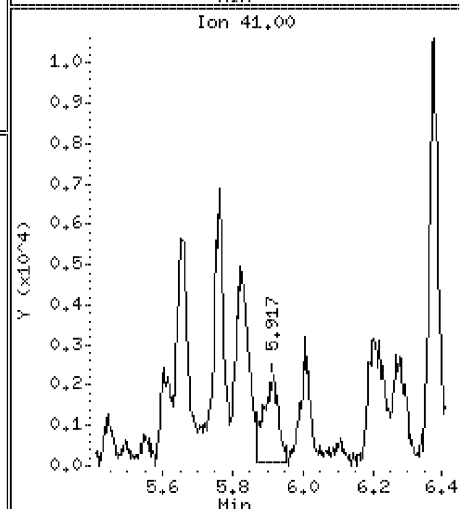
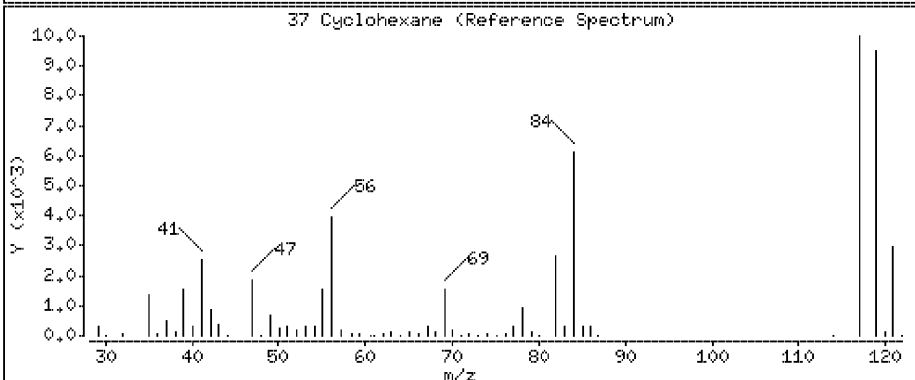
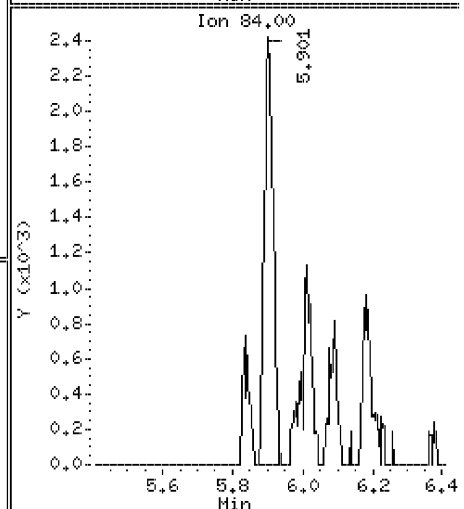
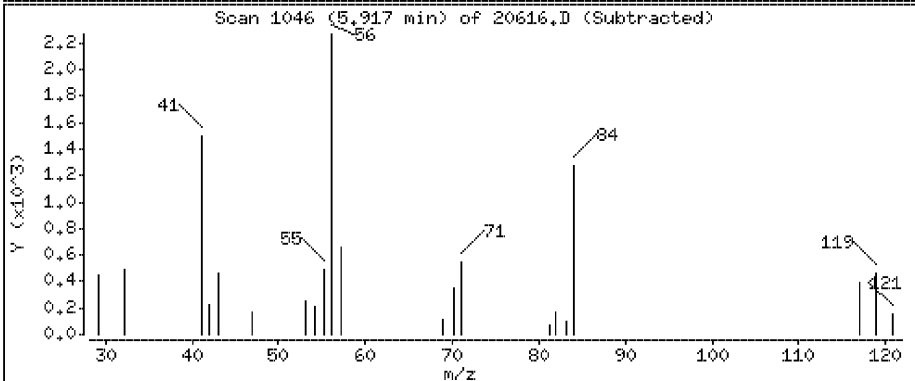
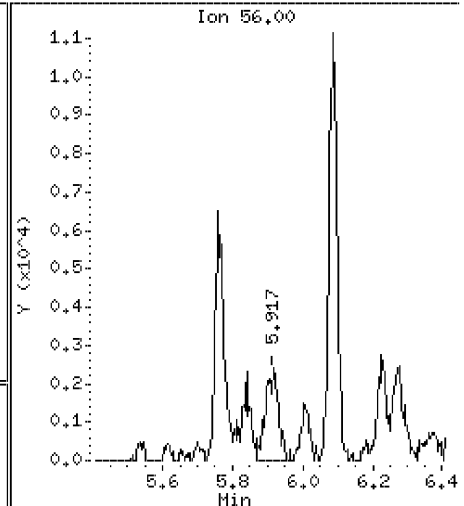
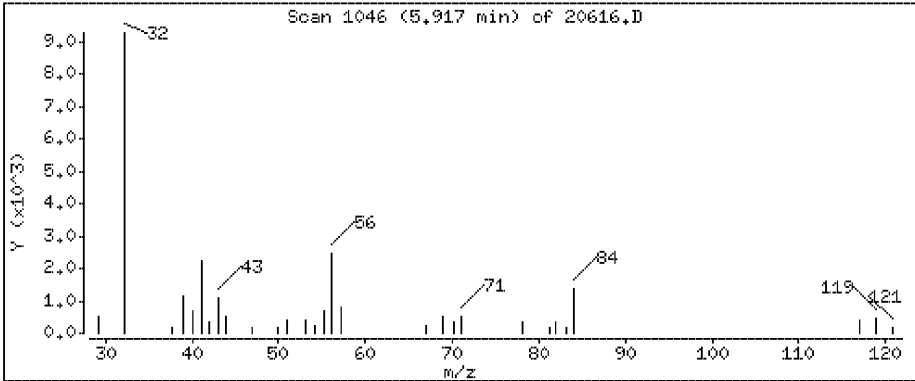




35 Benzene

Concentration: 2.00 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20616.D

Date : 25-JUL-2013 20:25

Client ID:

Instrument: 10airD.i

Sample Info:

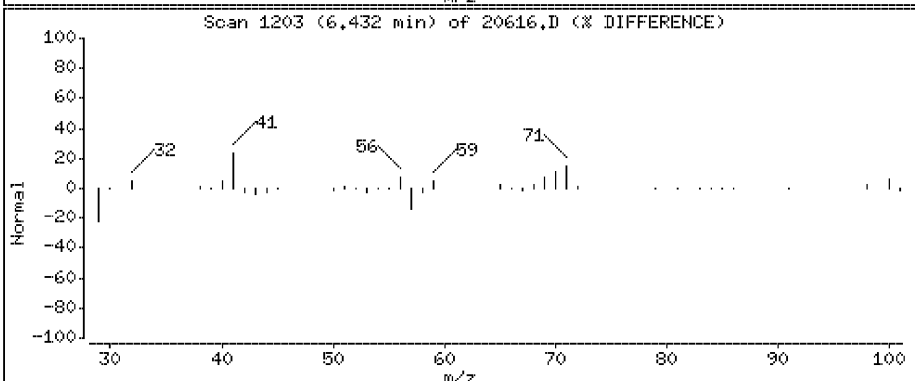
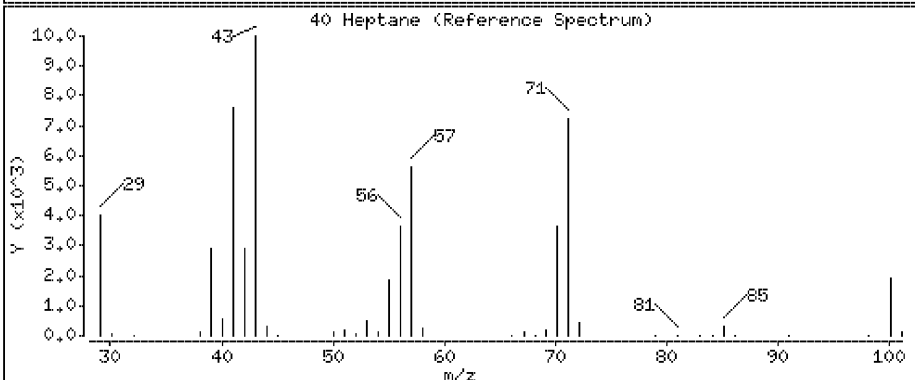
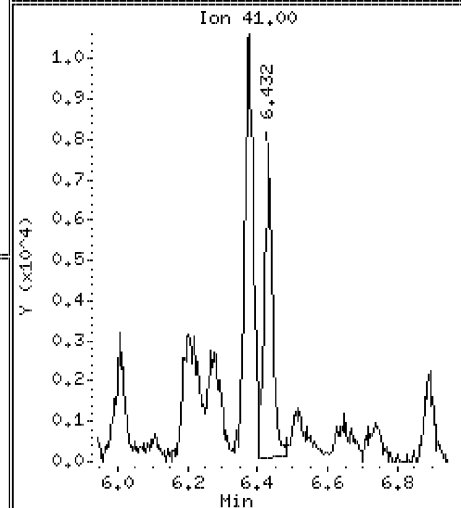
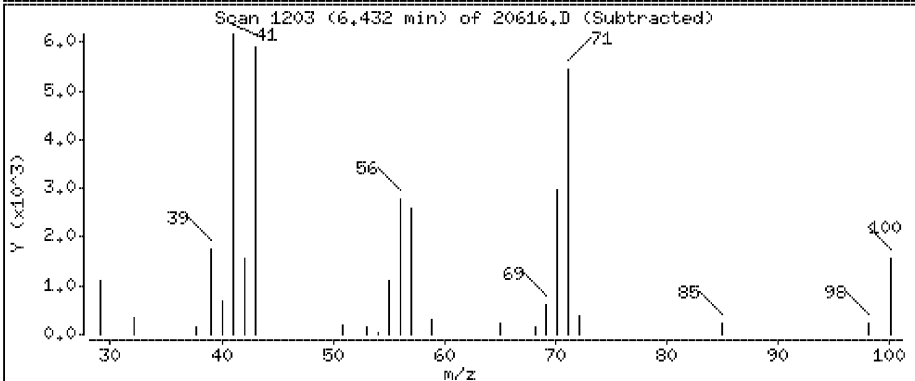
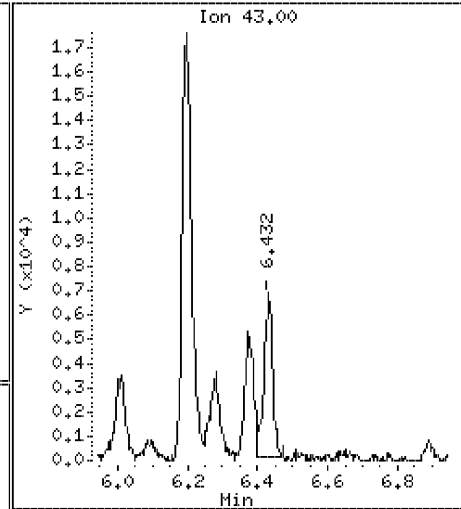
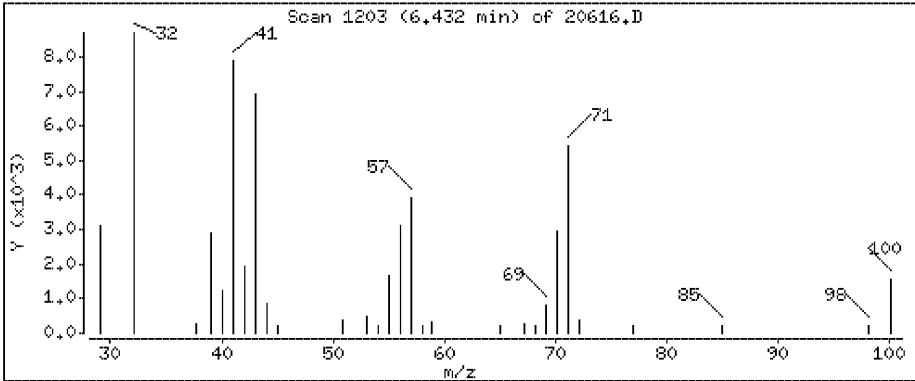
Operator: DR1

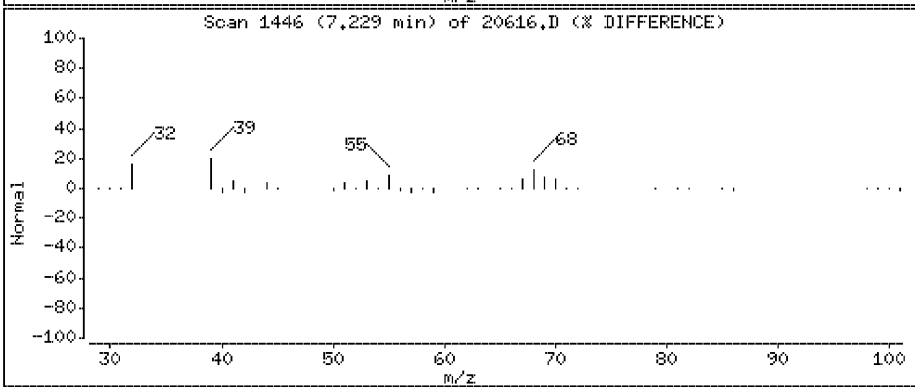
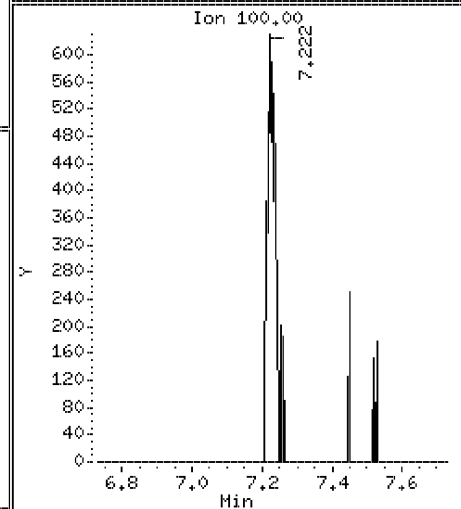
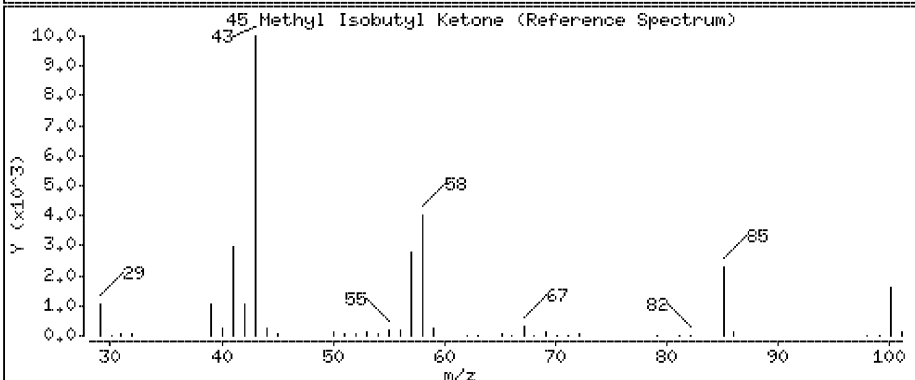
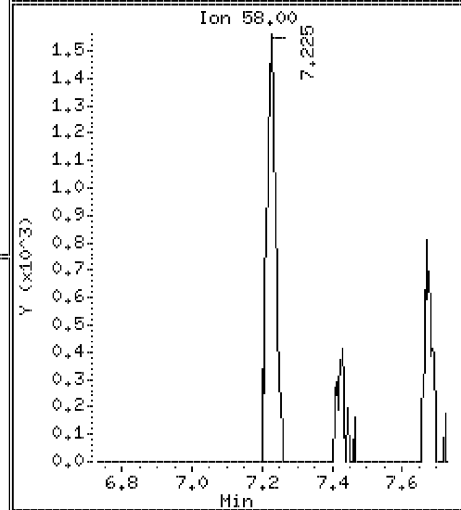
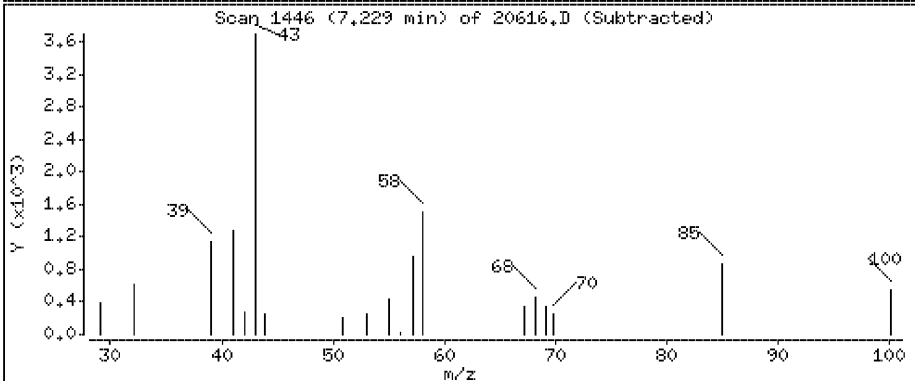
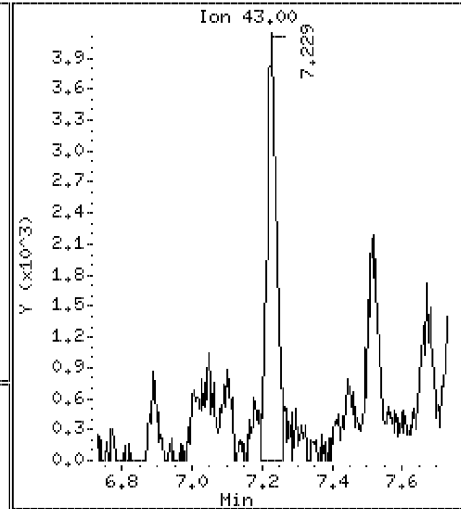
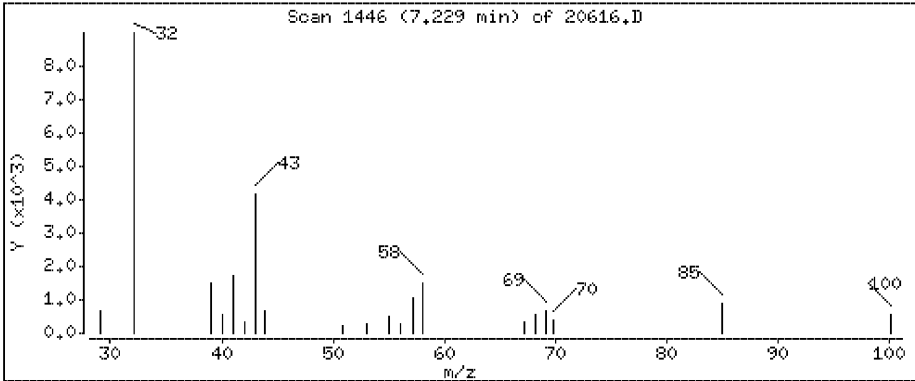
Column phase: J&W DB-5

Column diameter: 0.32

40 Heptane

Concentration: 1.36 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20616.D

Date : 25-JUL-2013 20:25

Client ID:

Instrument: 10airD.i

Sample Info:

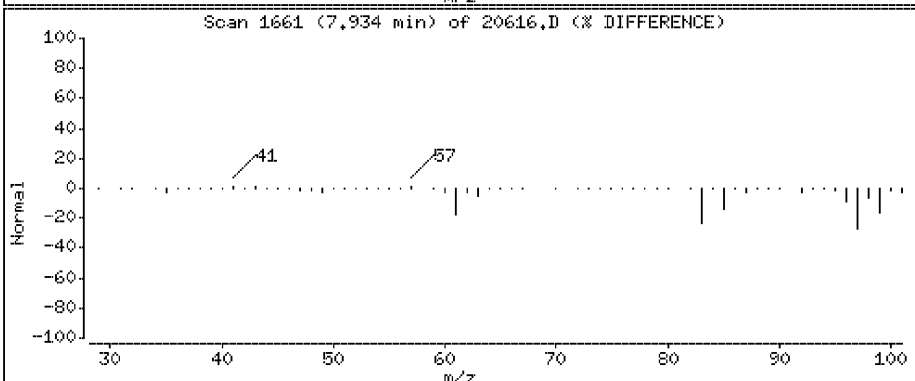
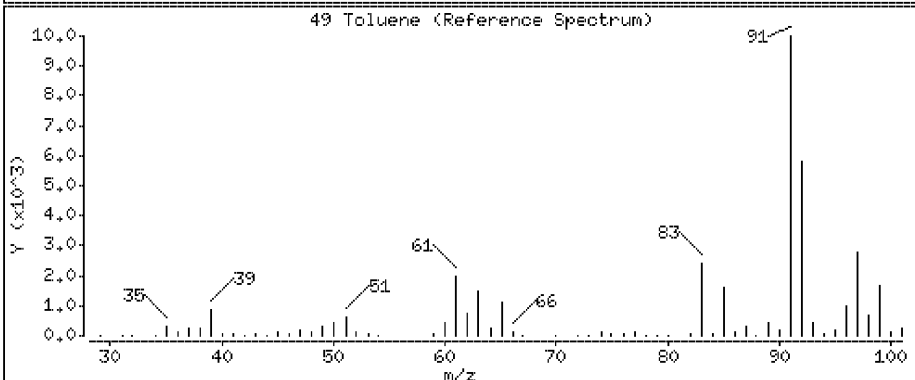
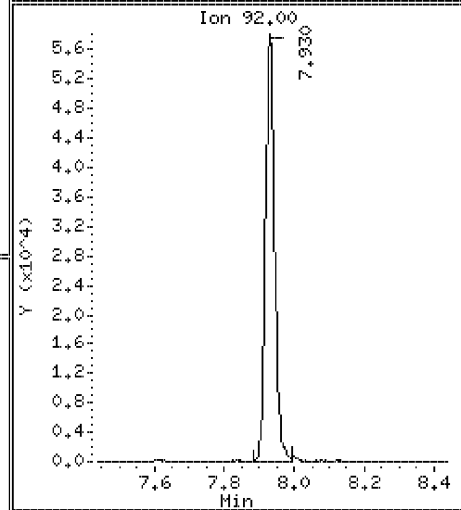
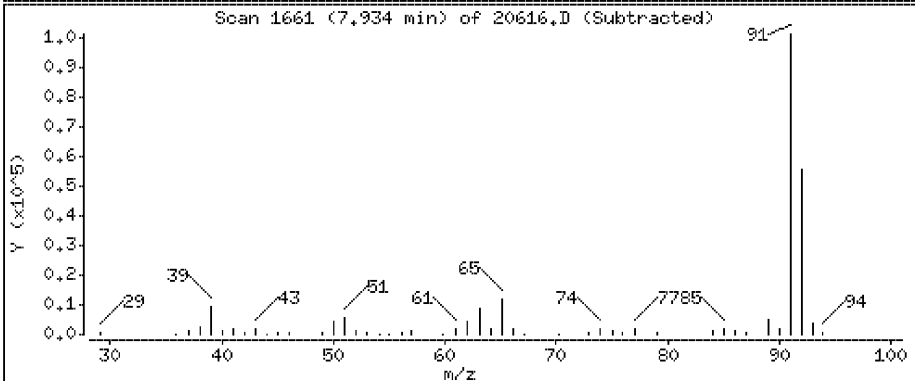
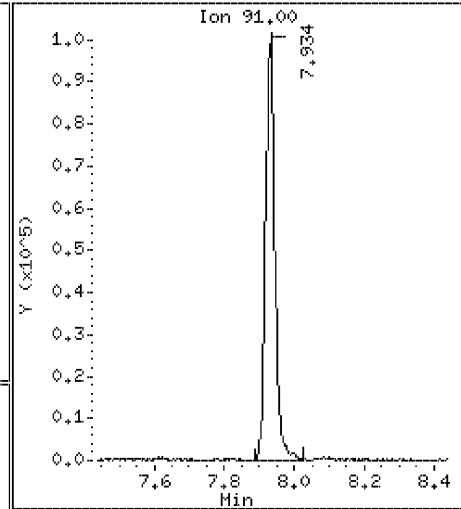
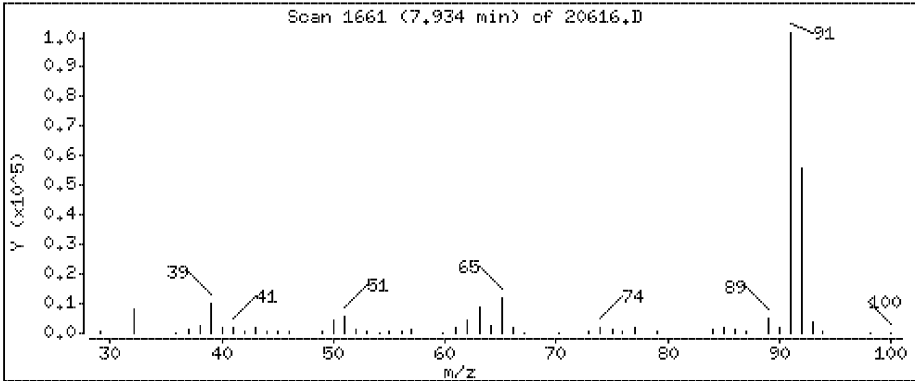
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

49 Toluene

Concentration: 3.87 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20616.D

Date : 25-JUL-2013 20:25

Client ID:

Instrument: 10airD.i

Sample Info:

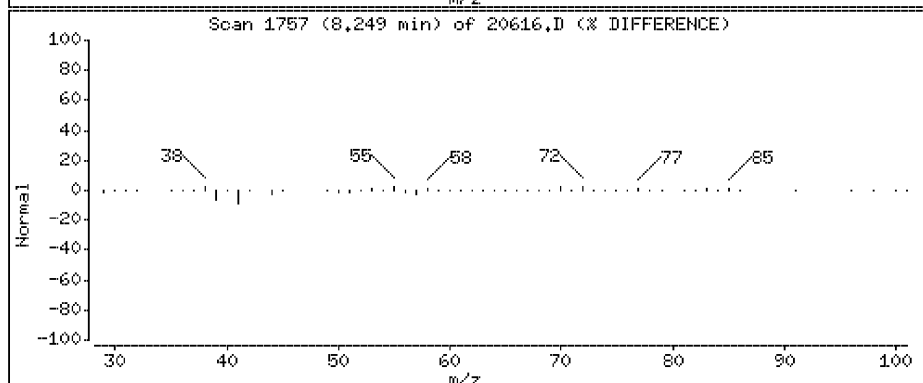
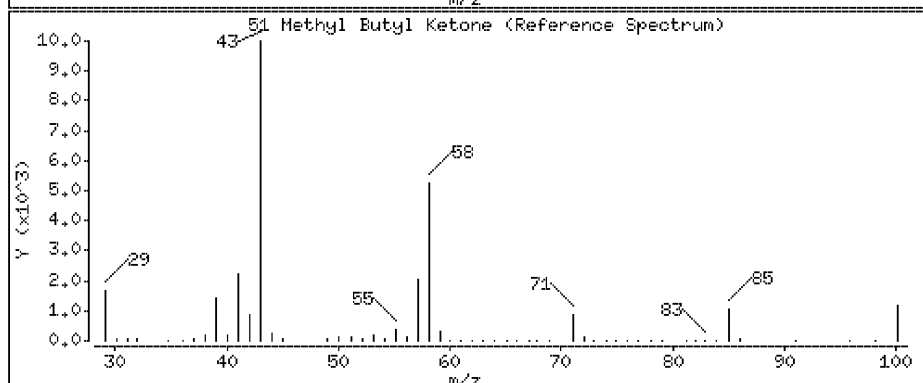
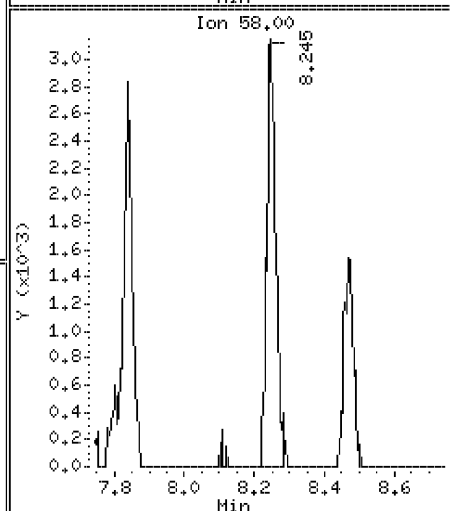
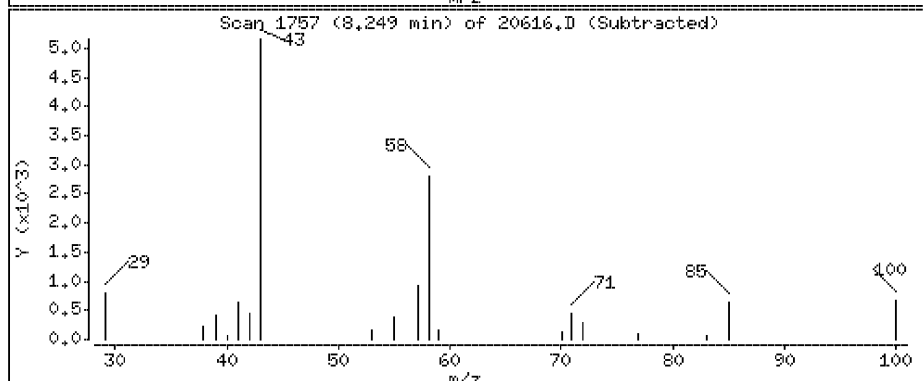
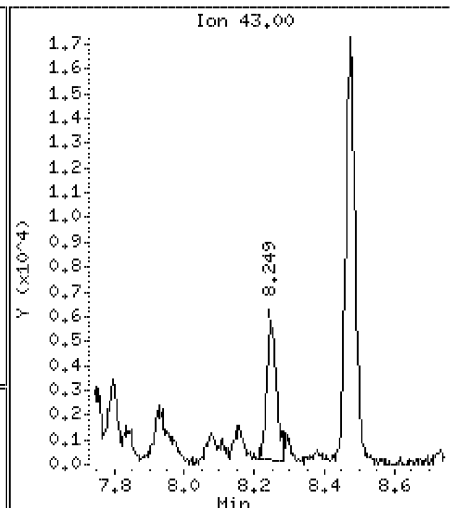
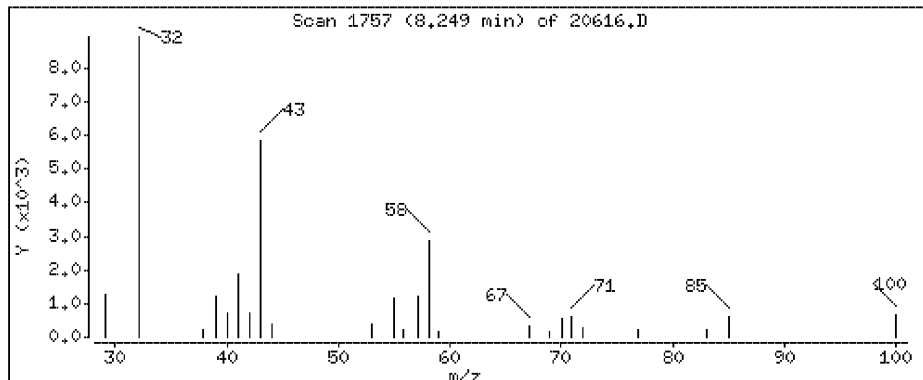
Operator: DR1

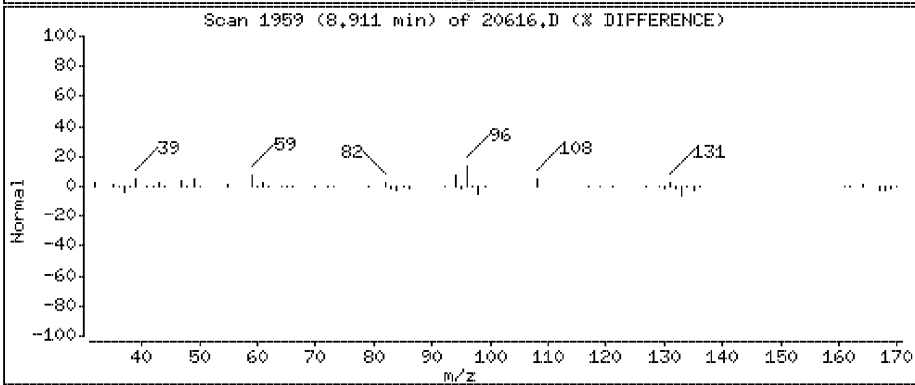
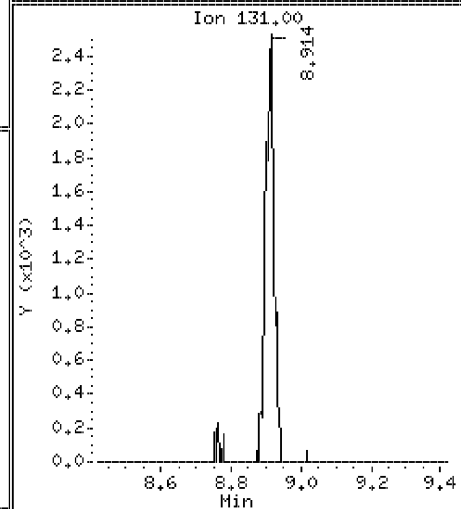
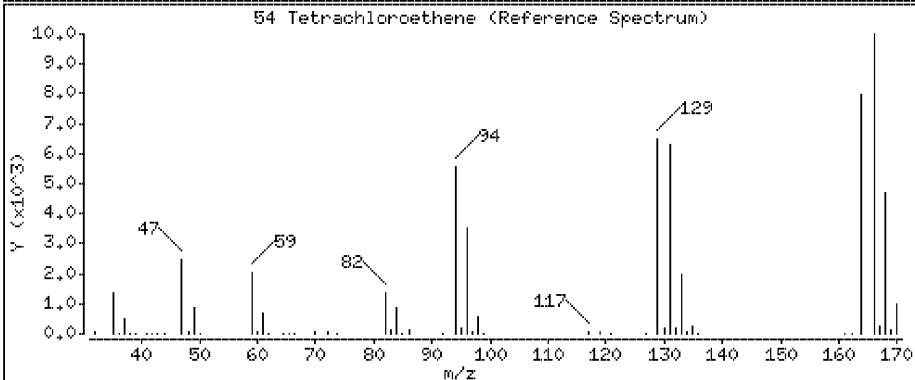
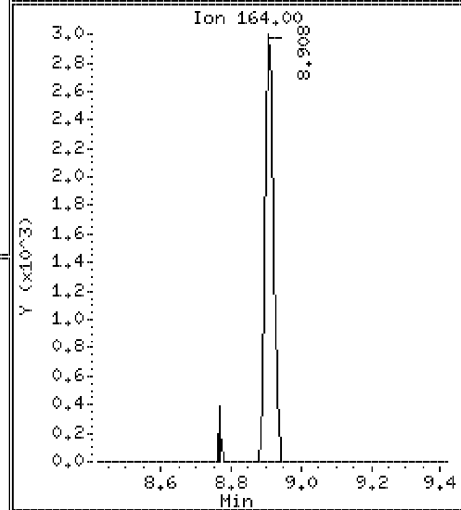
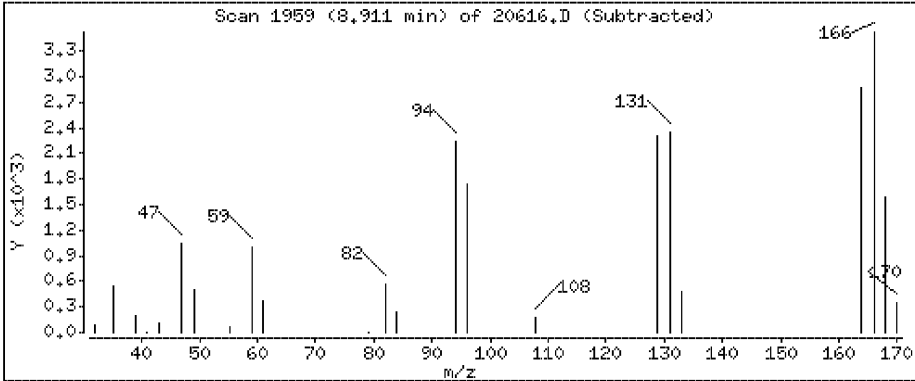
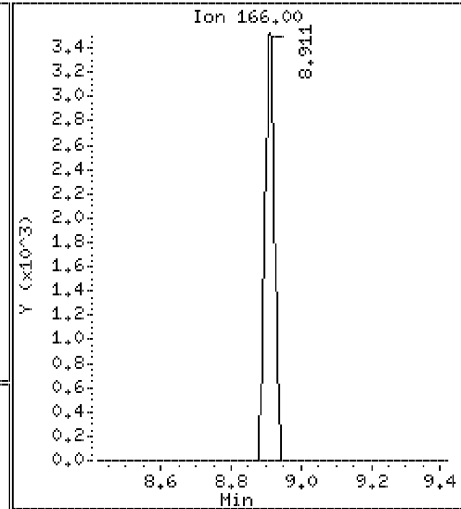
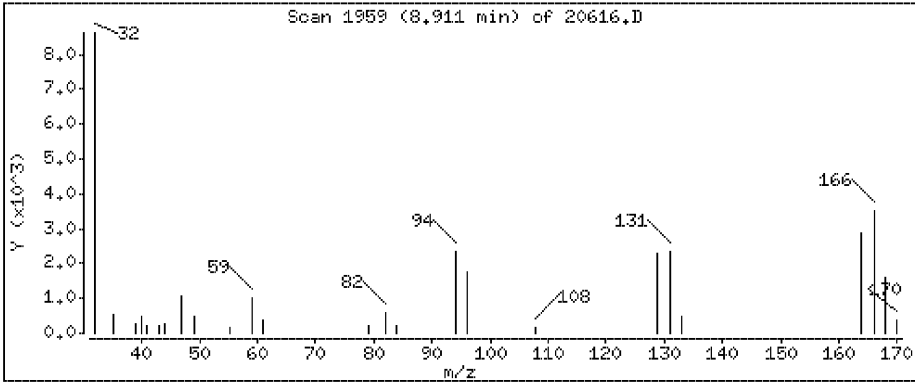
Column phase: J&W DB-5

Column diameter: 0.32

51 Methyl Butyl Ketone

Concentration: 0.974 ppbv





Data File: \\192.168.10.12\chem\10airD.i\072513,b\20616.D

Date : 25-JUL-2013 20:25

Client ID:

Instrument: 10airD.i

Sample Info:

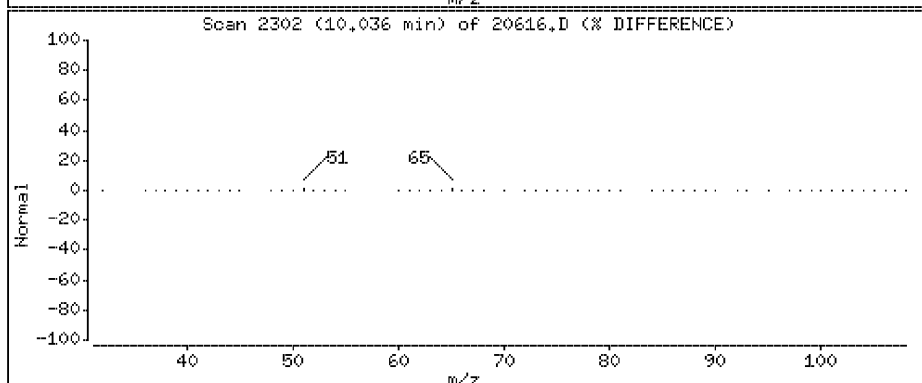
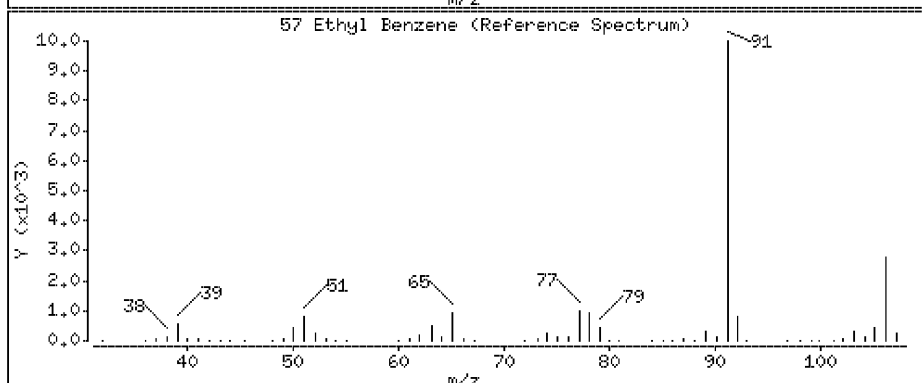
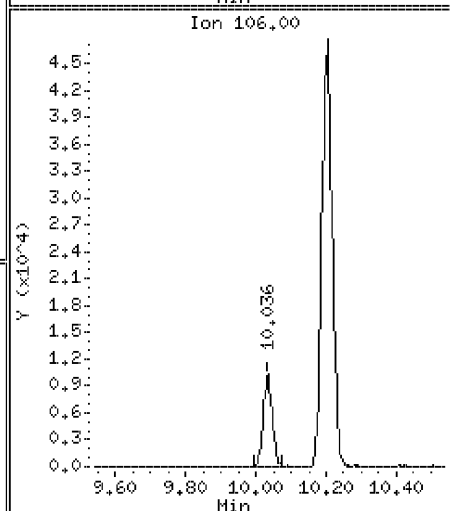
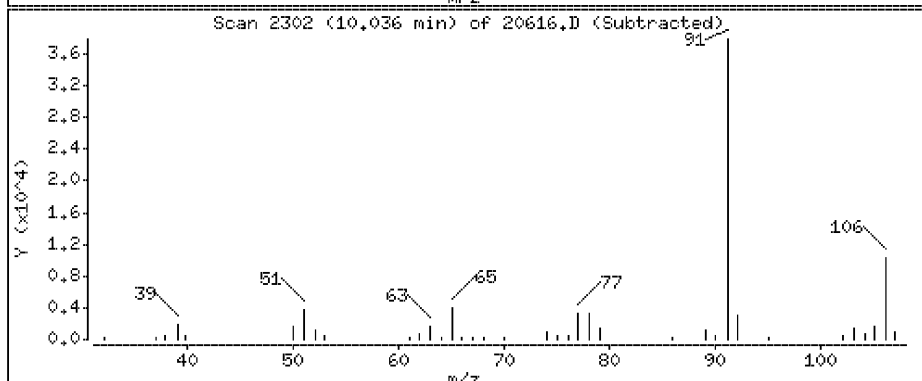
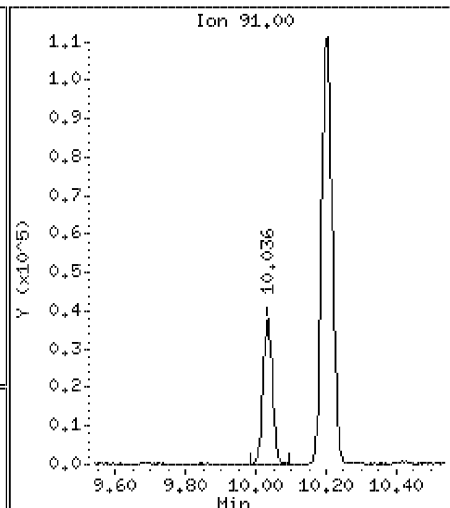
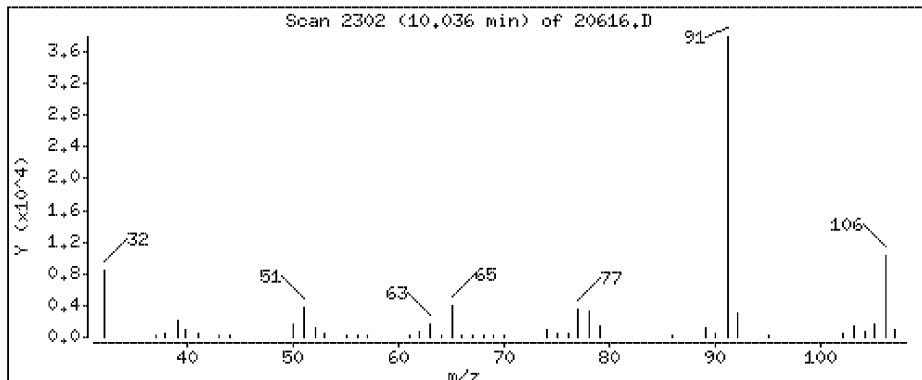
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

57 Ethyl Benzene

Concentration: 1.52 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20616.D

Date : 25-JUL-2013 20:25

Client ID:

Instrument: 10airD.i

Sample Info:

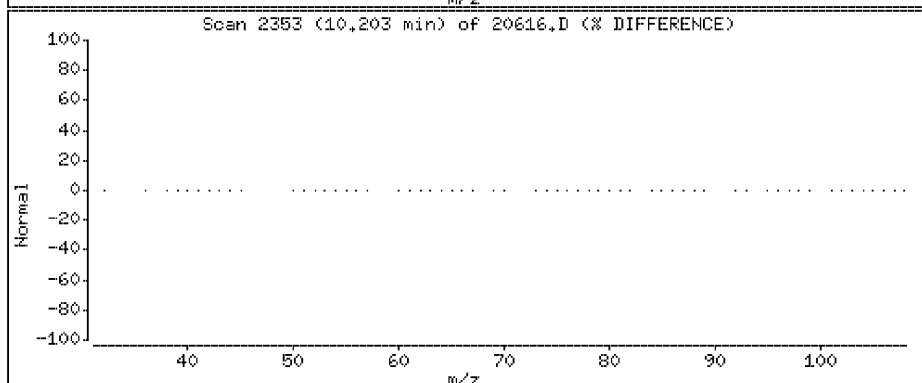
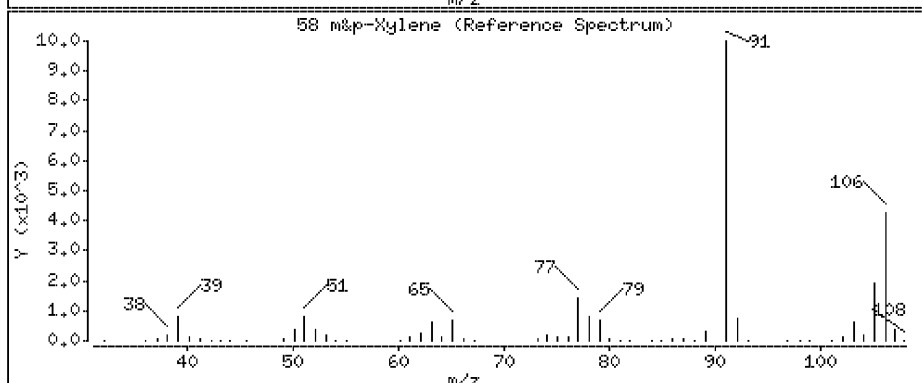
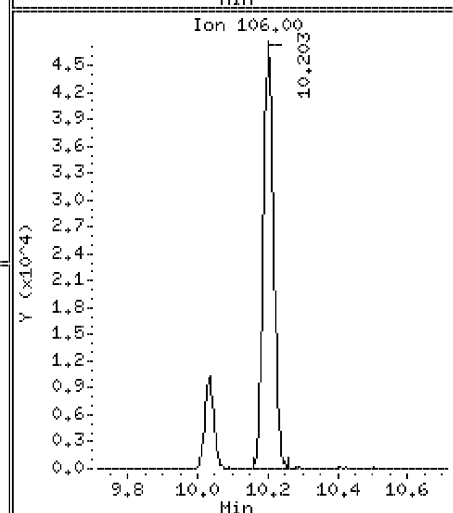
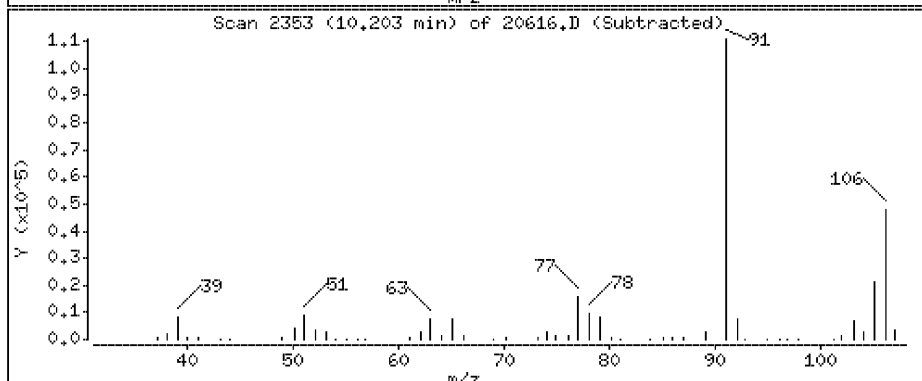
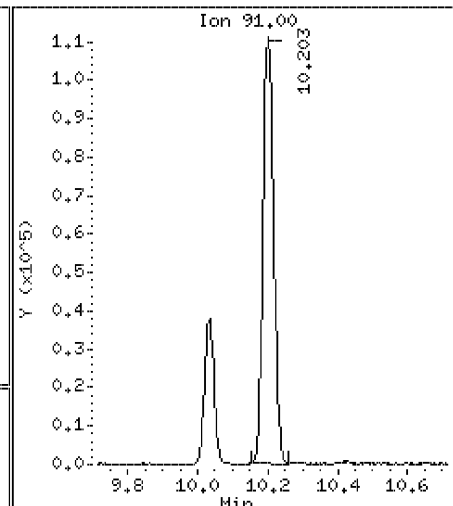
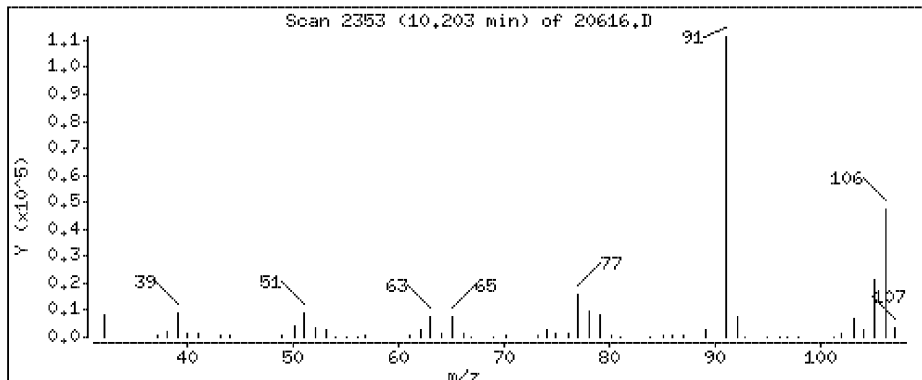
Operator: DR1

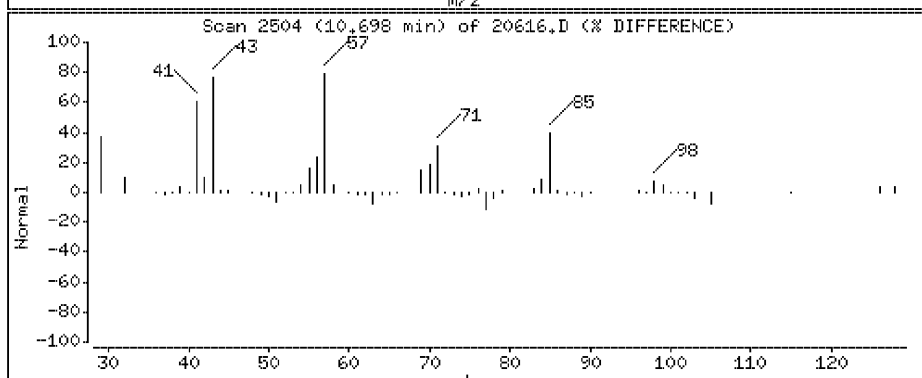
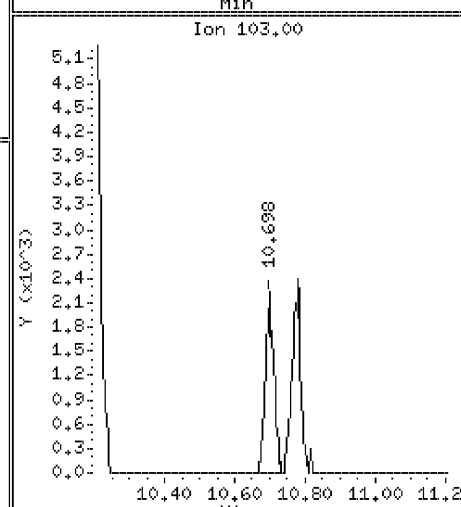
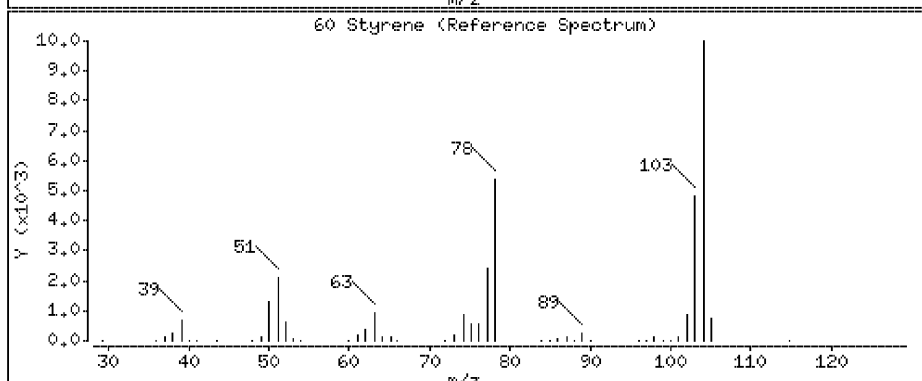
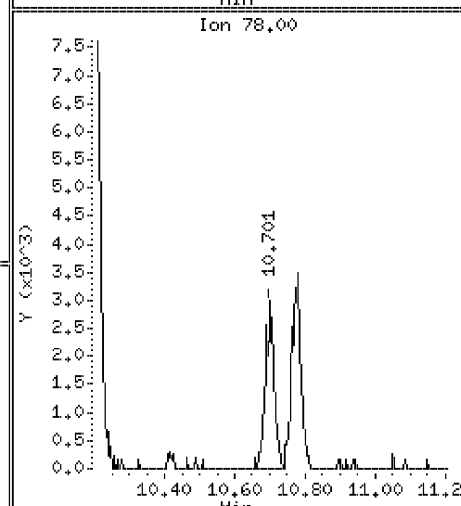
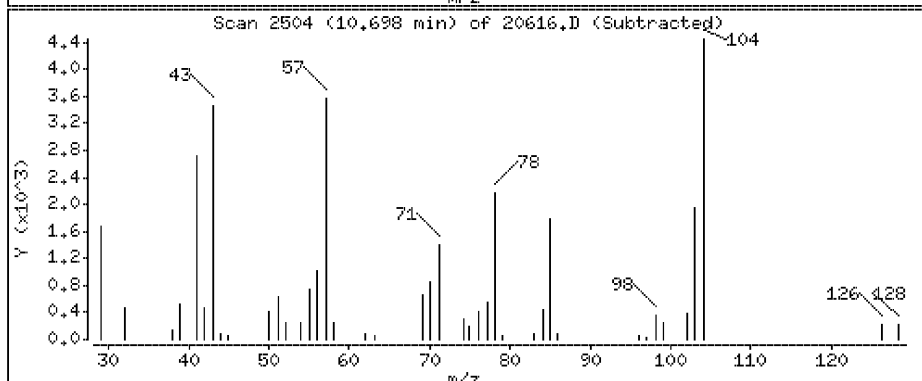
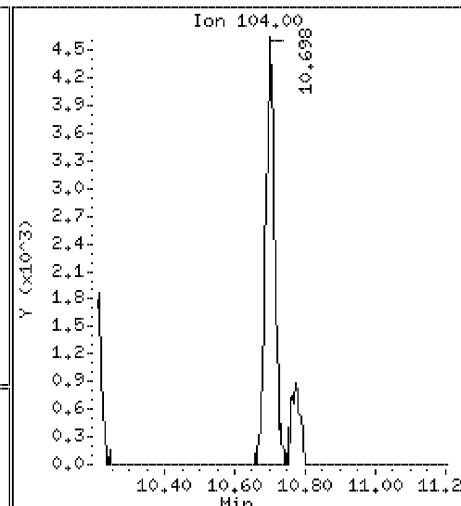
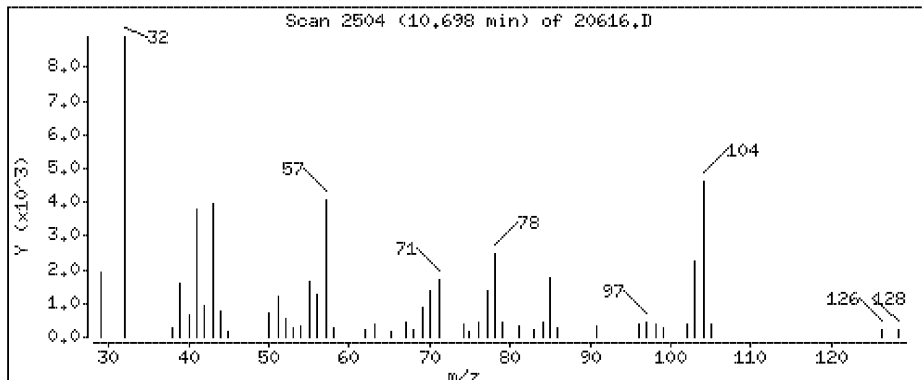
Column phase: J&W DB-5

Column diameter: 0.32

58 m&p-Xylene

Concentration: 4.67 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20616.D

Date : 25-JUL-2013 20:25

Client ID:

Instrument: 10airD.i

Sample Info:

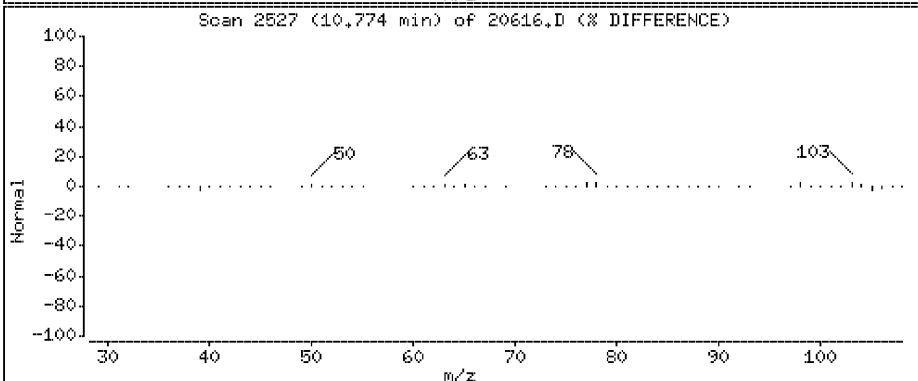
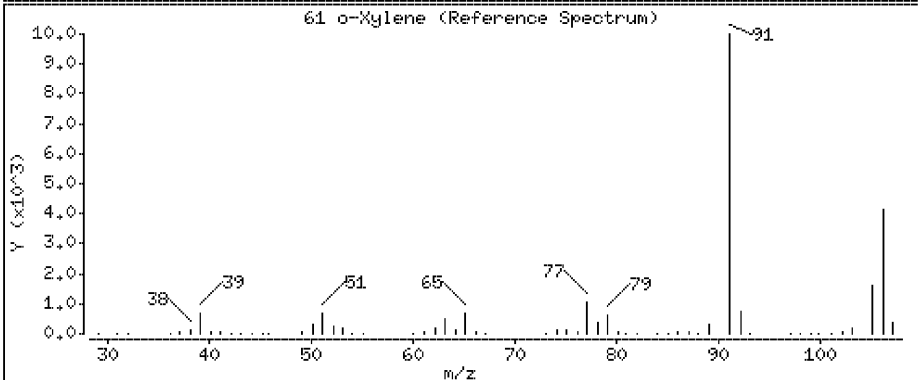
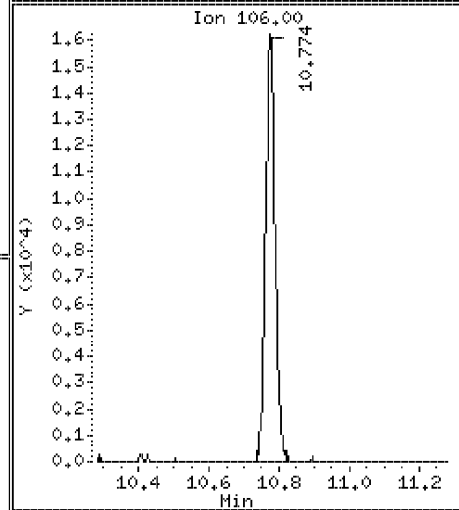
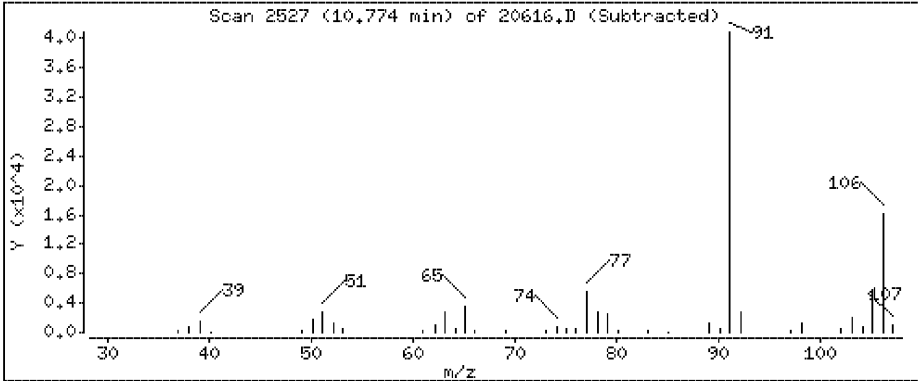
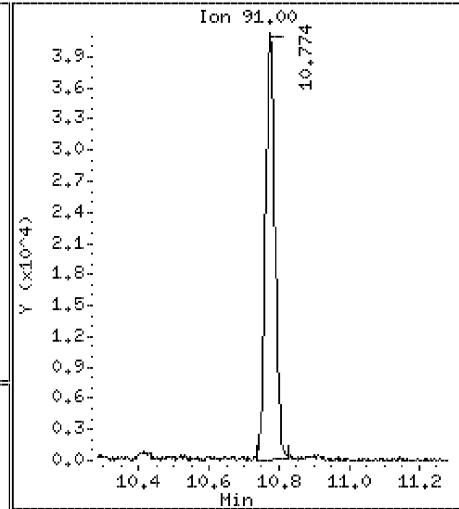
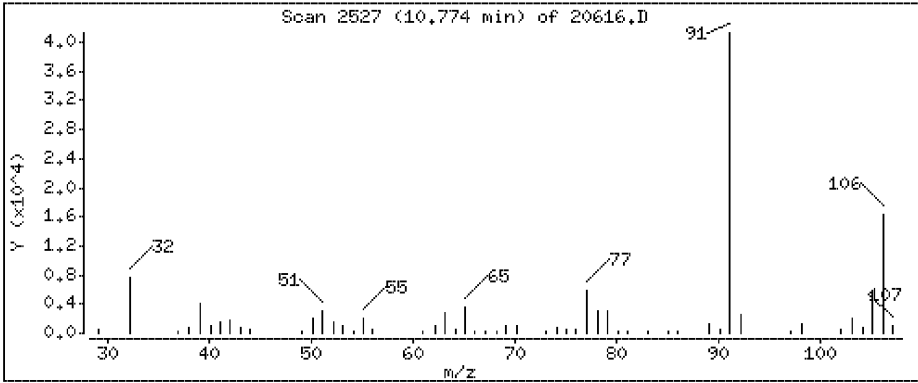
Operator: DR1

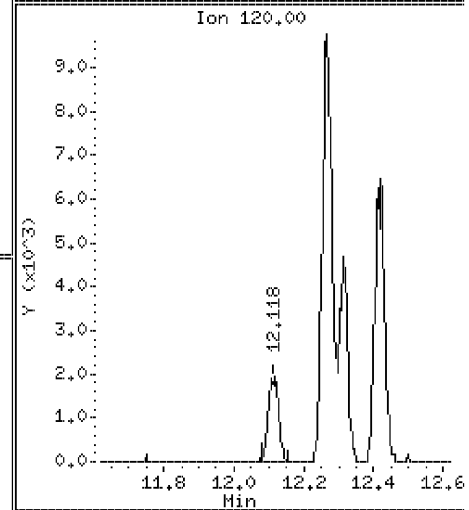
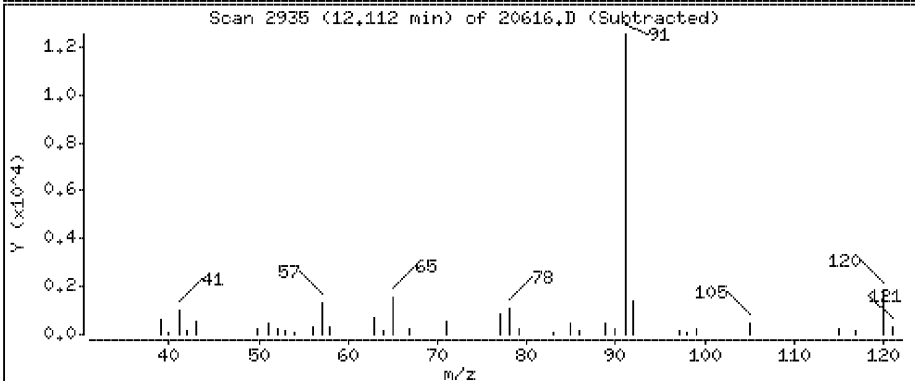
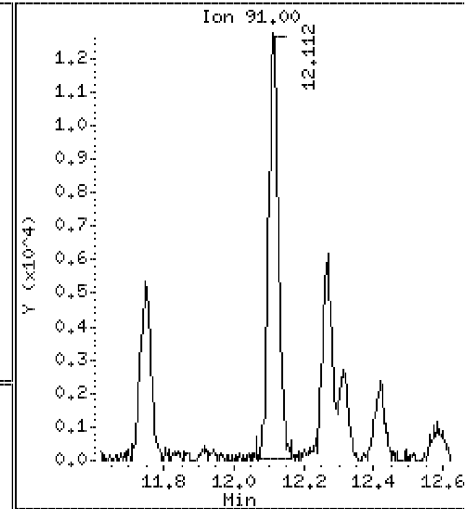
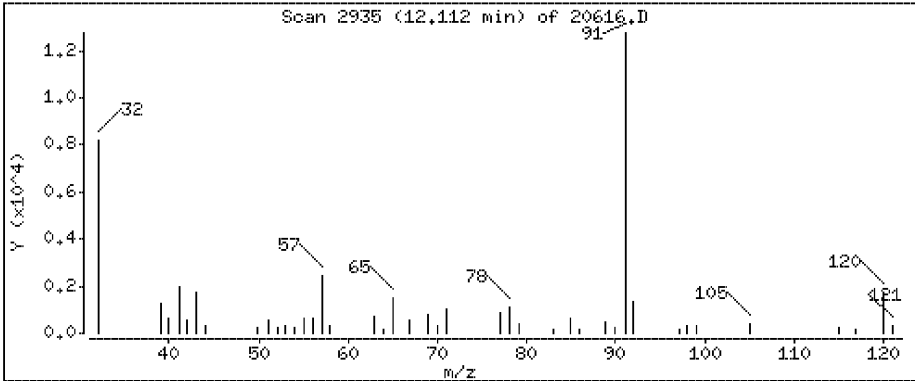
Column phase: J&W DB-5

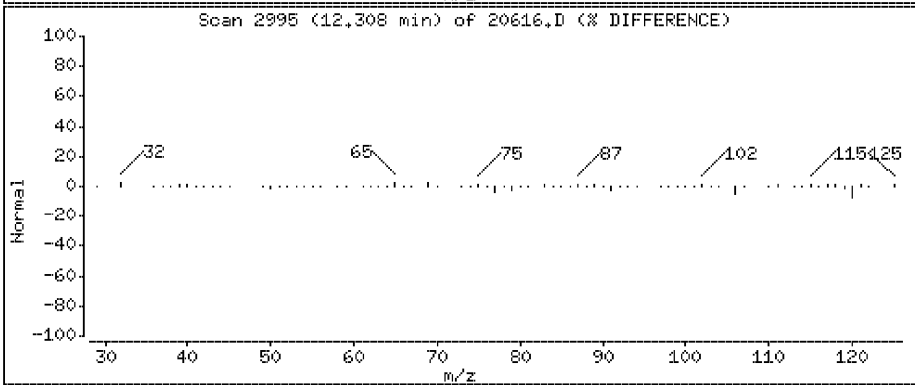
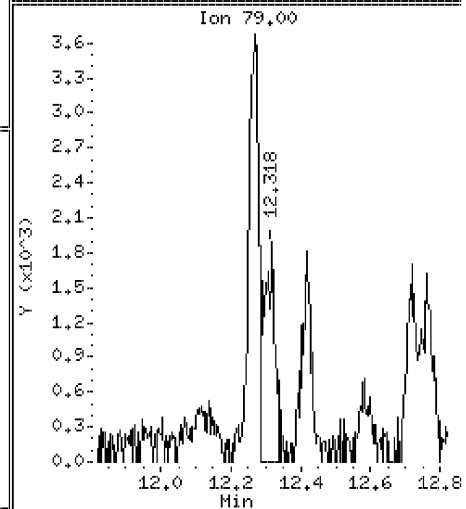
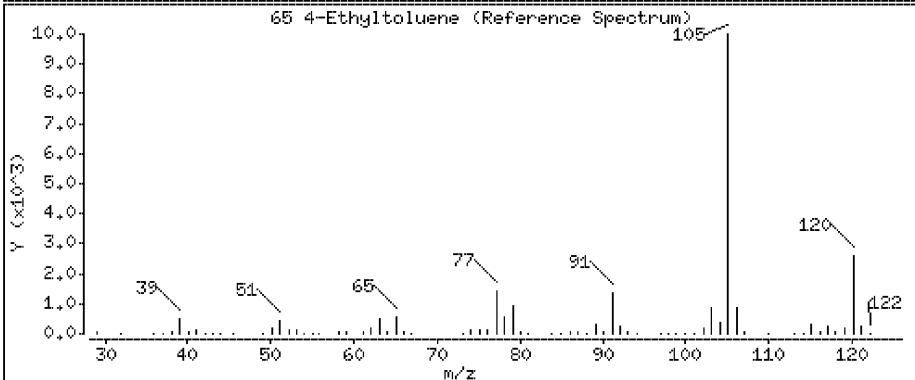
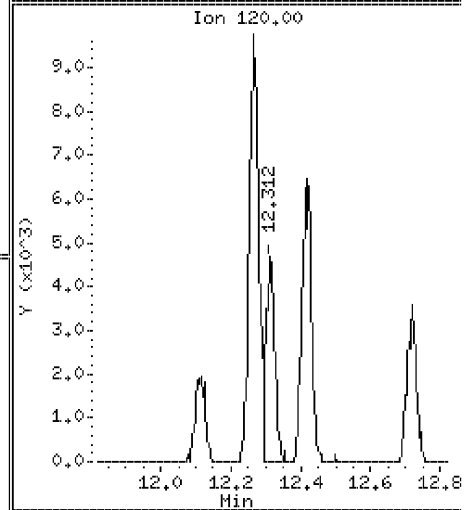
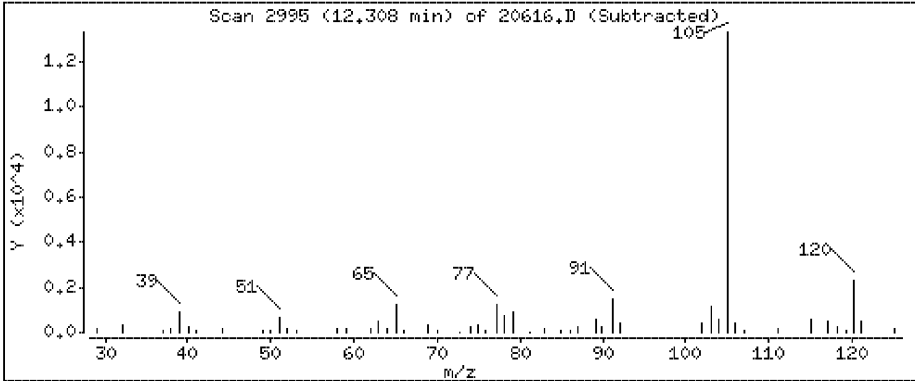
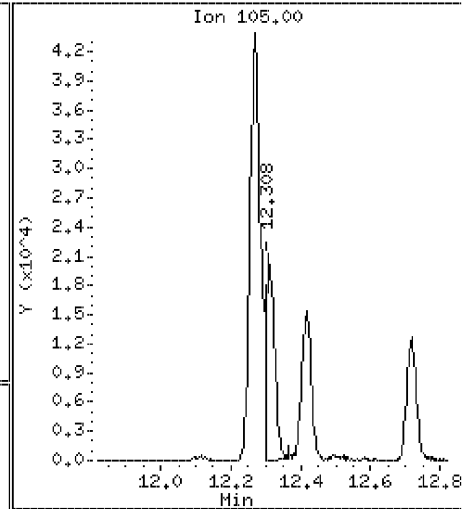
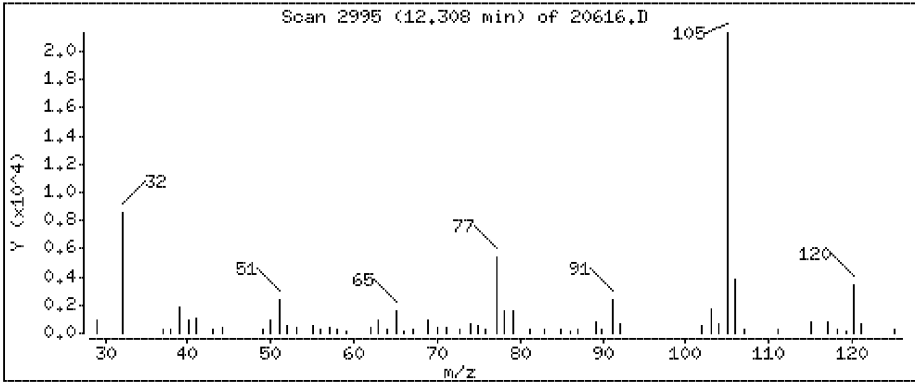
Column diameter: 0,32

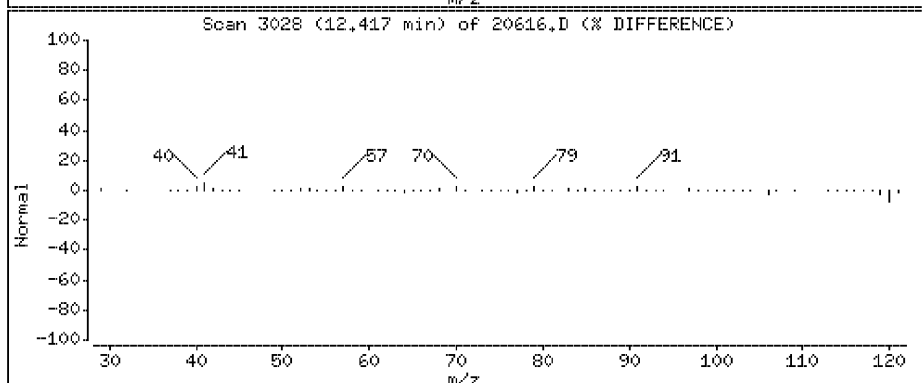
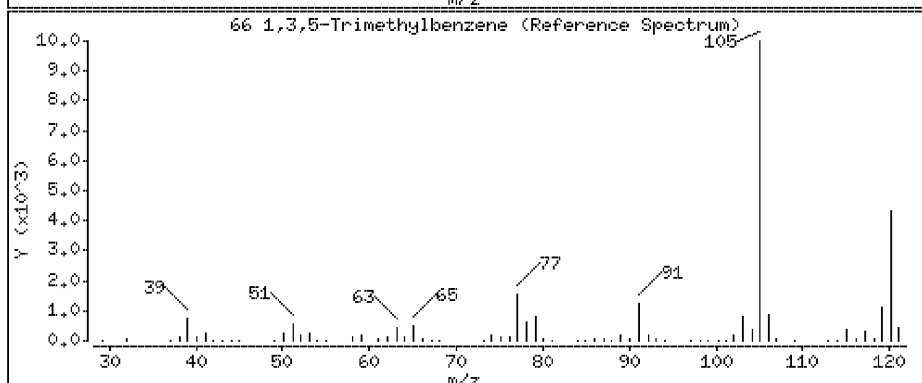
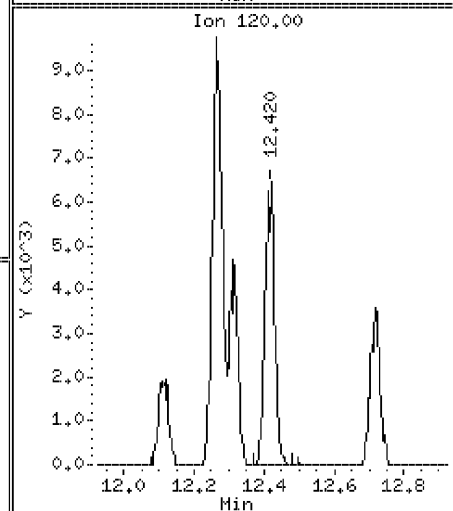
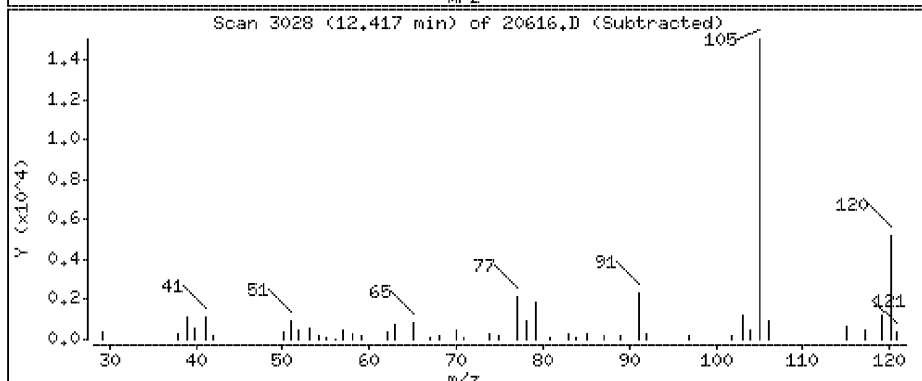
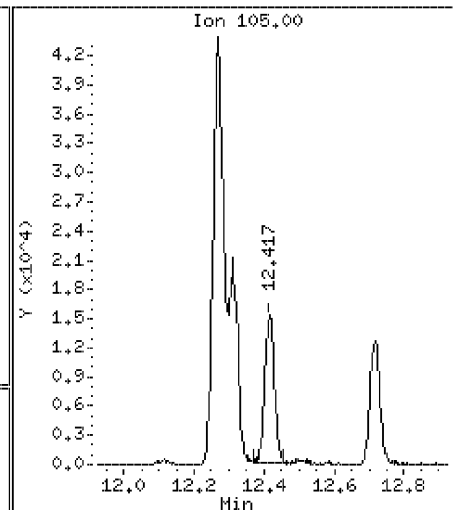
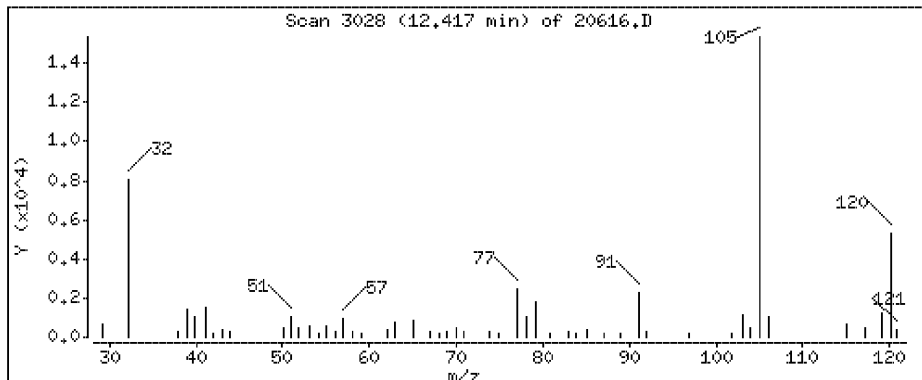
61 o-Xylene

Concentration: 1,66 ppbv









Data File: \\192.168.10.12\chem\10airD,i\072513,b\20616.D

Date : 25-JUL-2013 20:25

Client ID:

Instrument: 10airD,i

Sample Info:

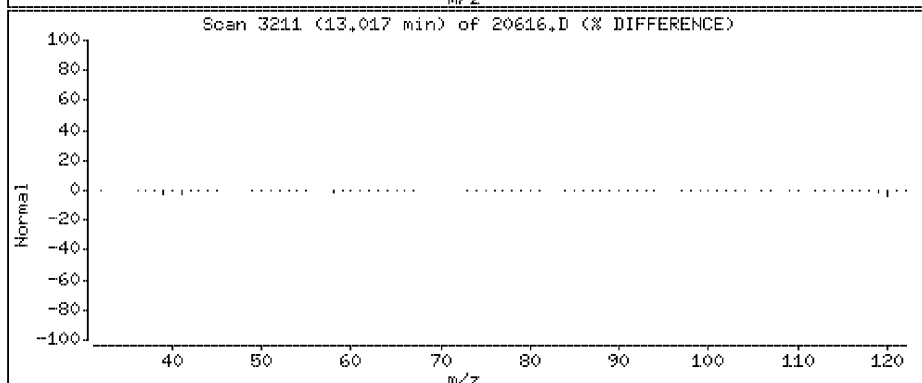
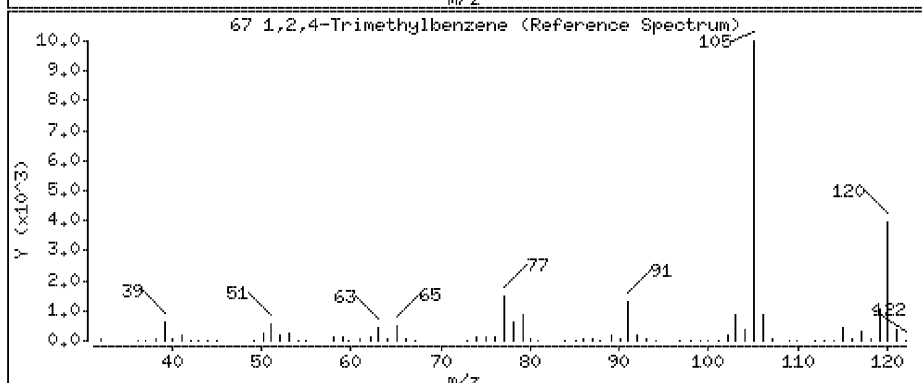
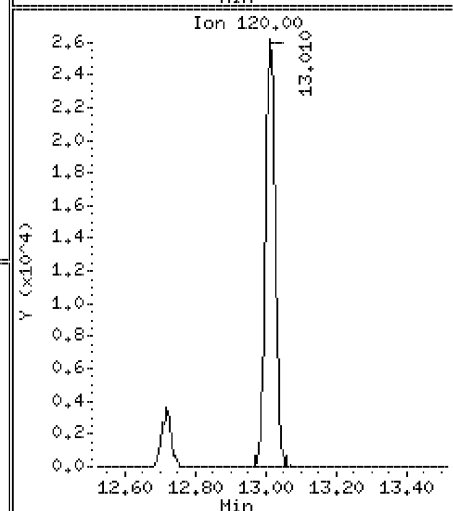
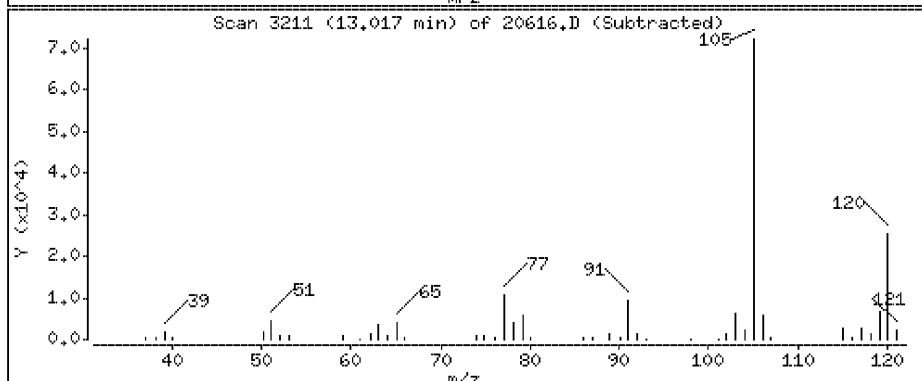
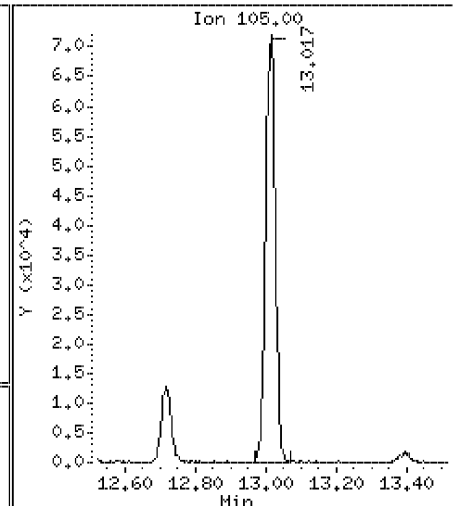
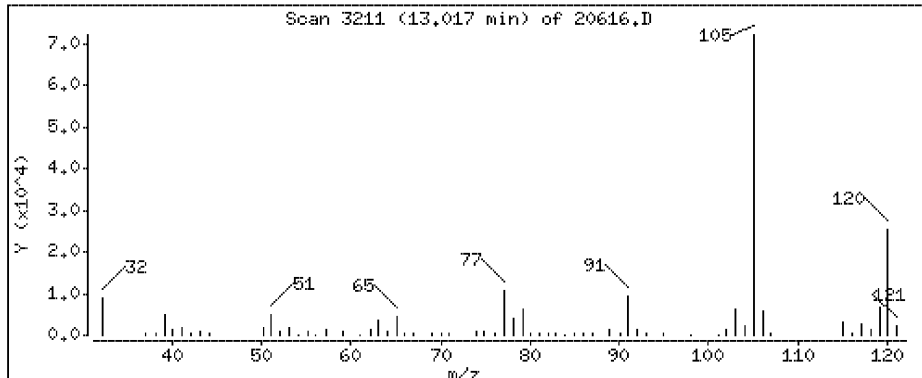
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

67 1,2,4-Trimethylbenzene

Concentration: 3.00 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20616.D

Date : 25-JUL-2013 20:25

Client ID:

Instrument: 10airD.i

Sample Info:

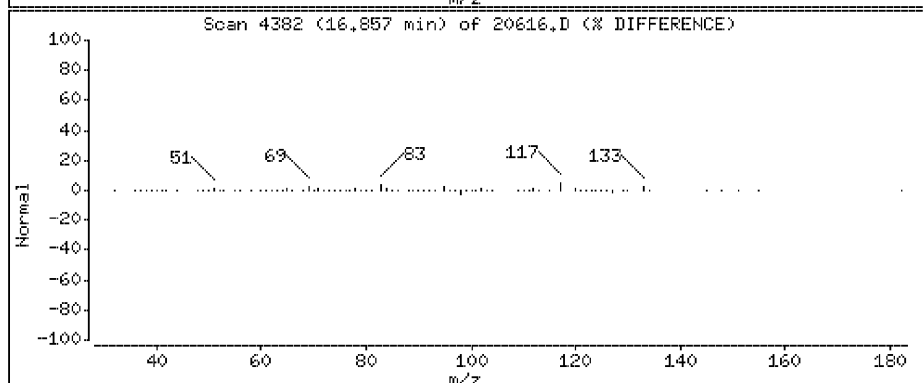
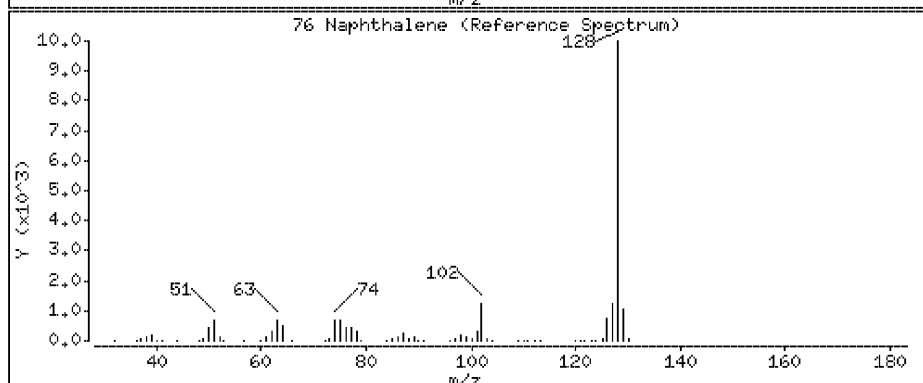
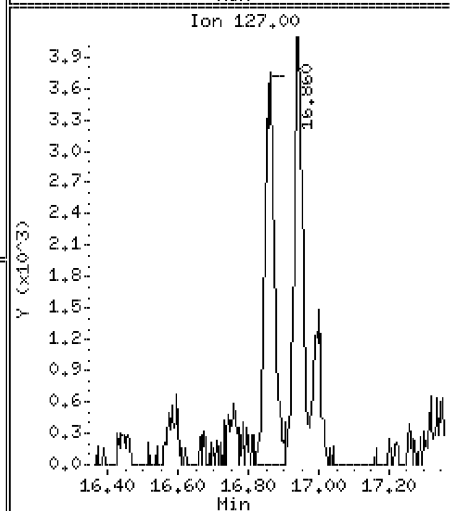
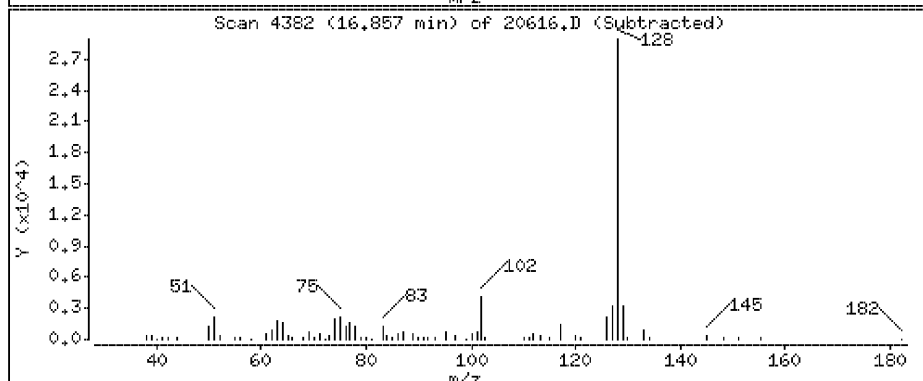
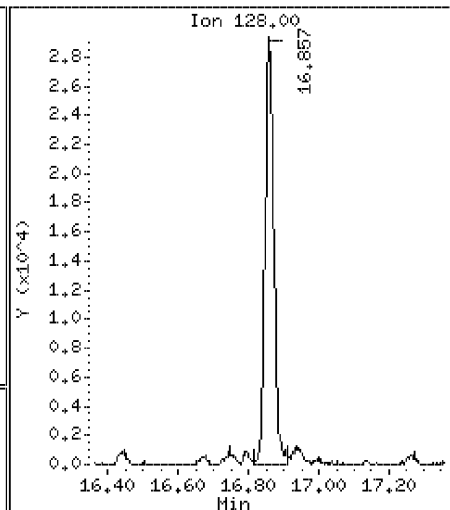
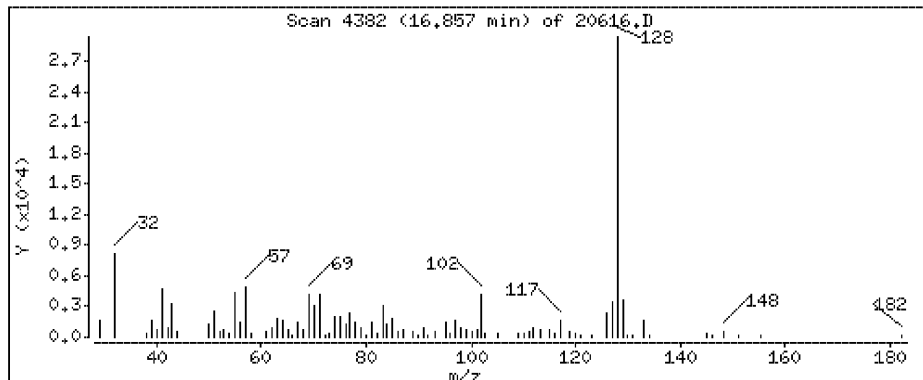
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

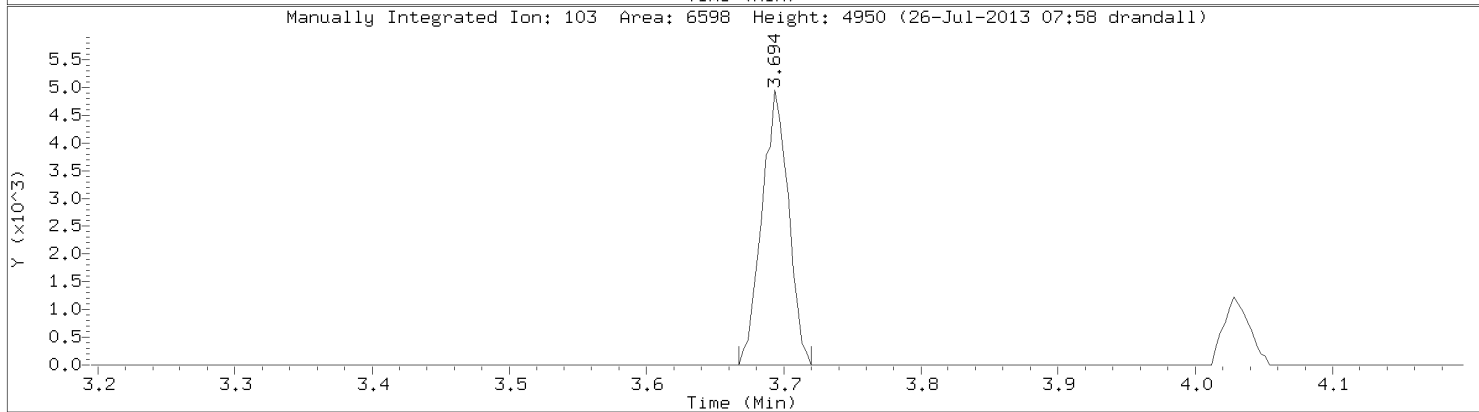
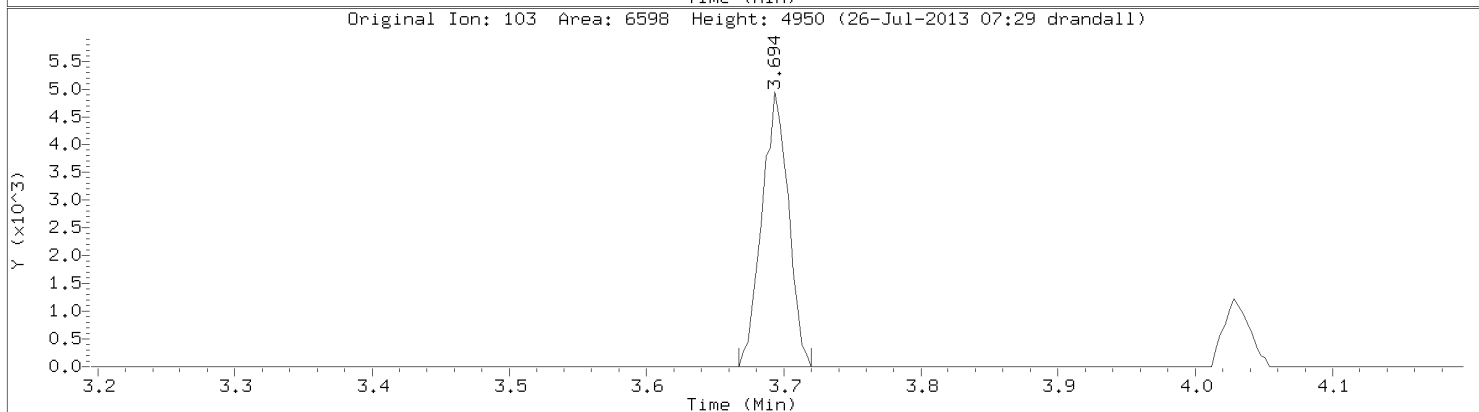
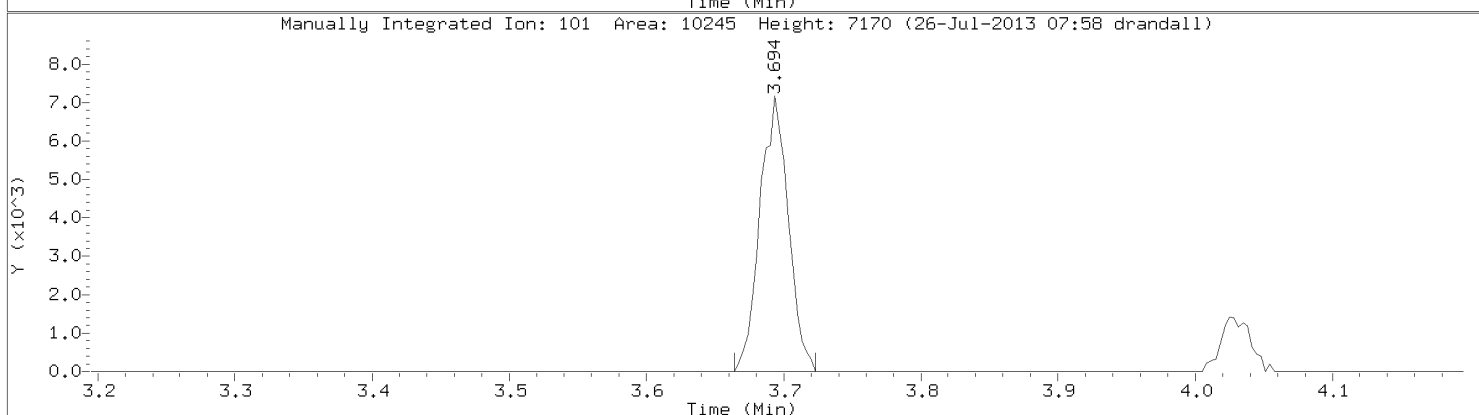
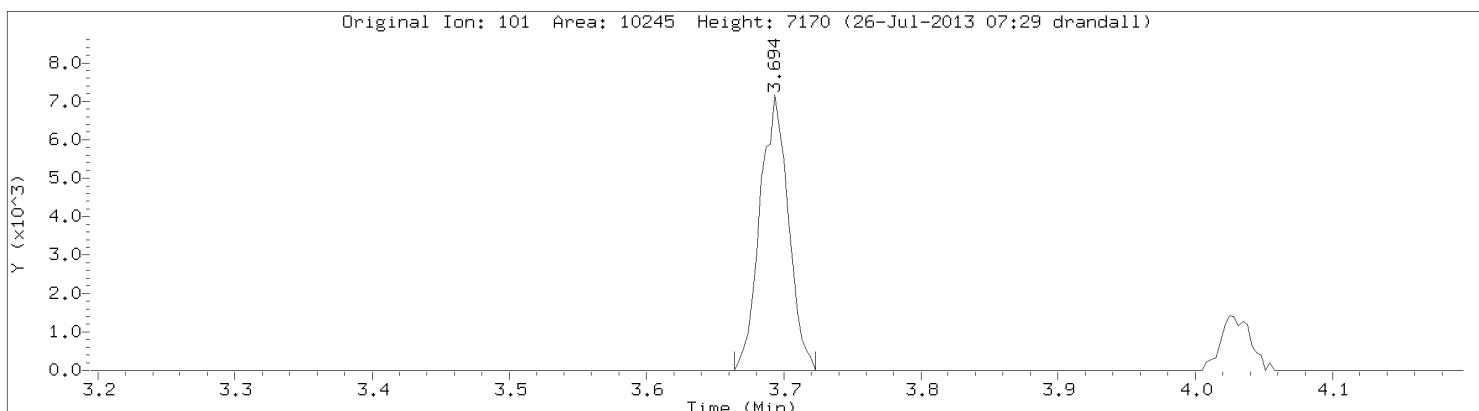
76 Naphthalene

Concentration: 2.41 ppbv

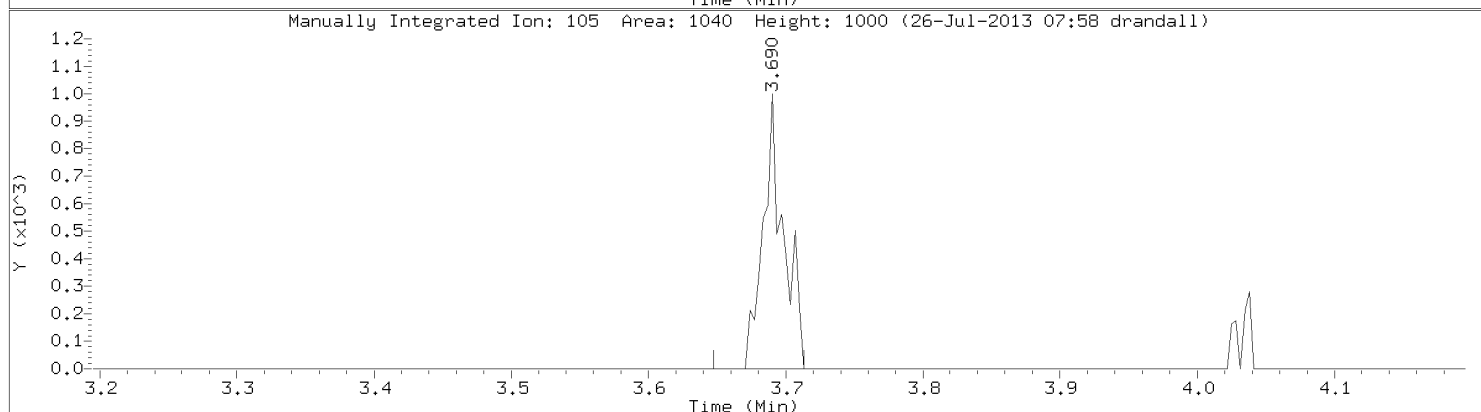
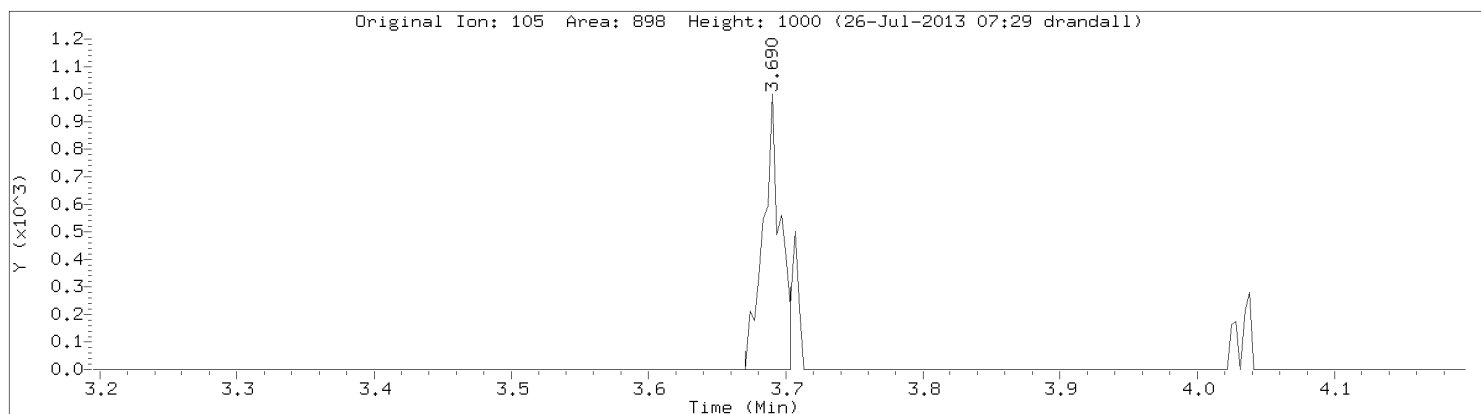


Data File: \\192.168.10.12\chem\10airD.i\072513.b\20616.d
Injection Date: 25-JUL-2013 20:25
Instrument: 10airD.i
Lab Sample ID: 10236207012

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

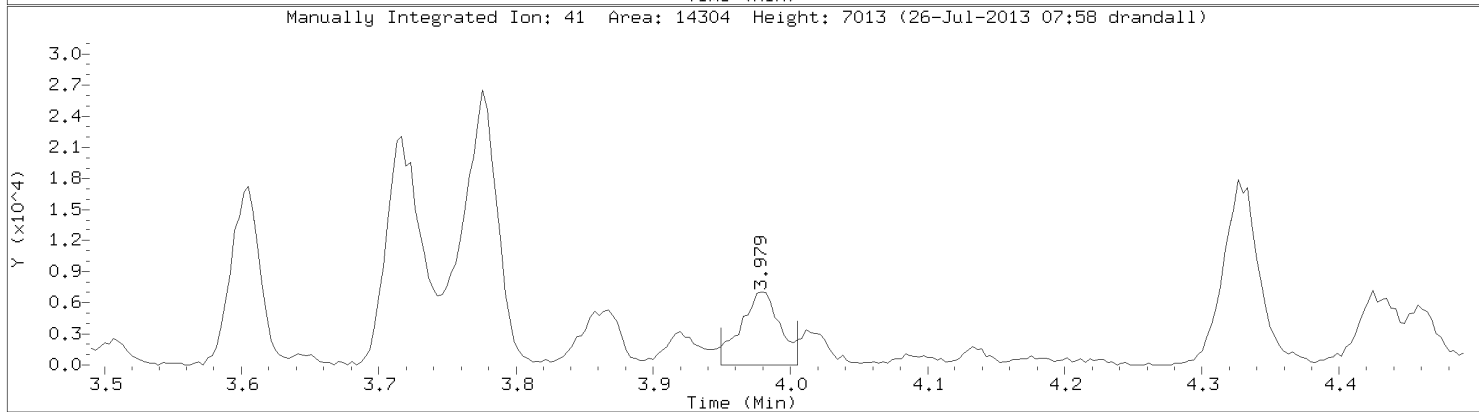
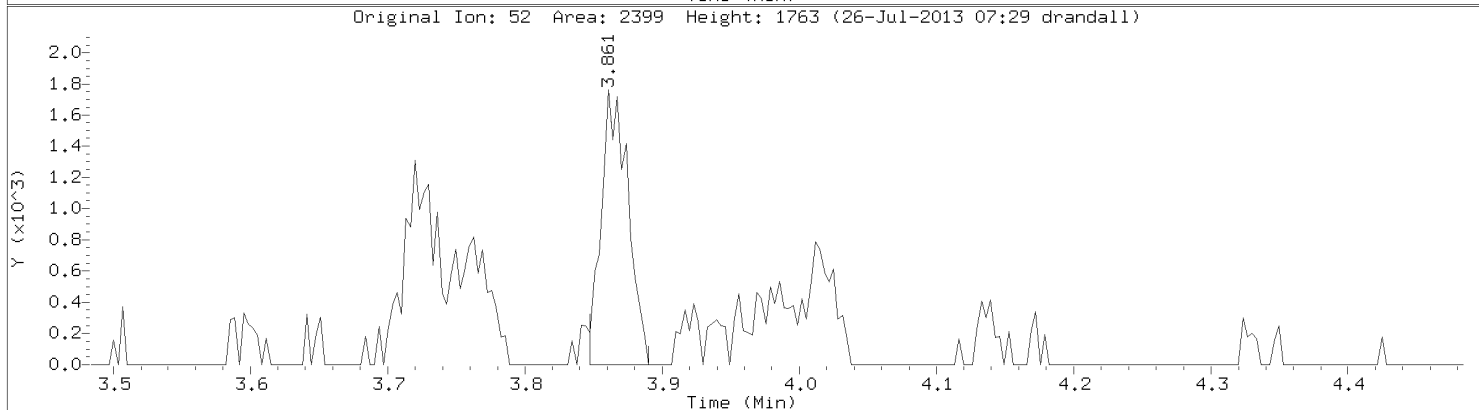
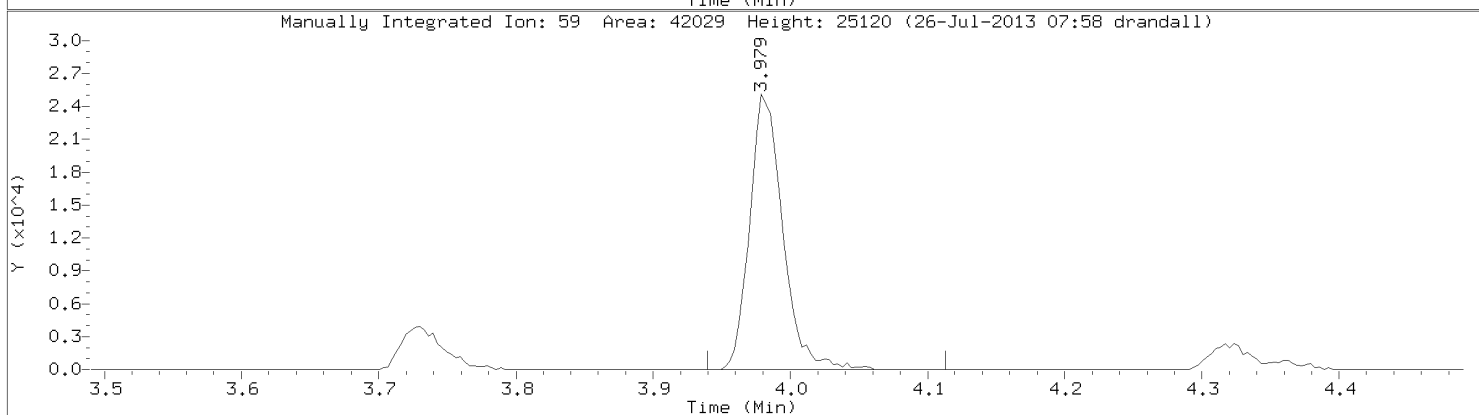
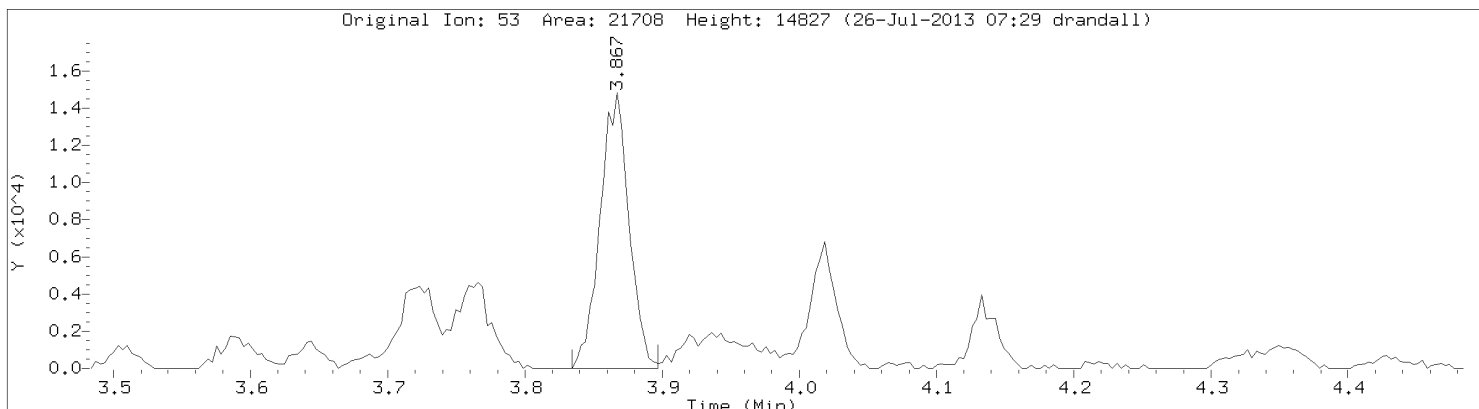


Data File: \\192.168.10.12\chem\10airD.i\072513.b\20616.d
Injection Date: 25-JUL-2013 20:25
Instrument: 10airD.i
Lab Sample ID: 10236207012



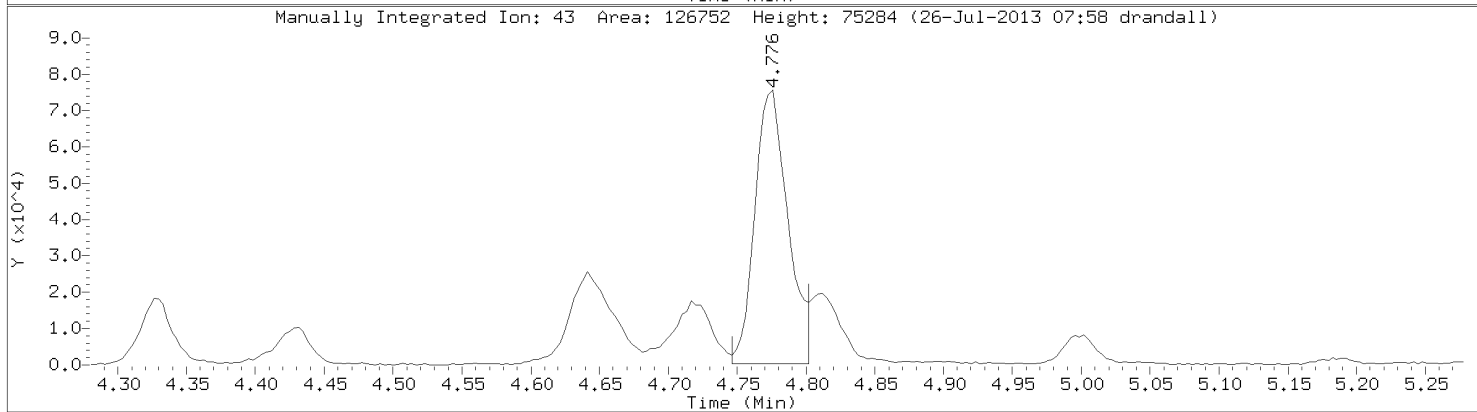
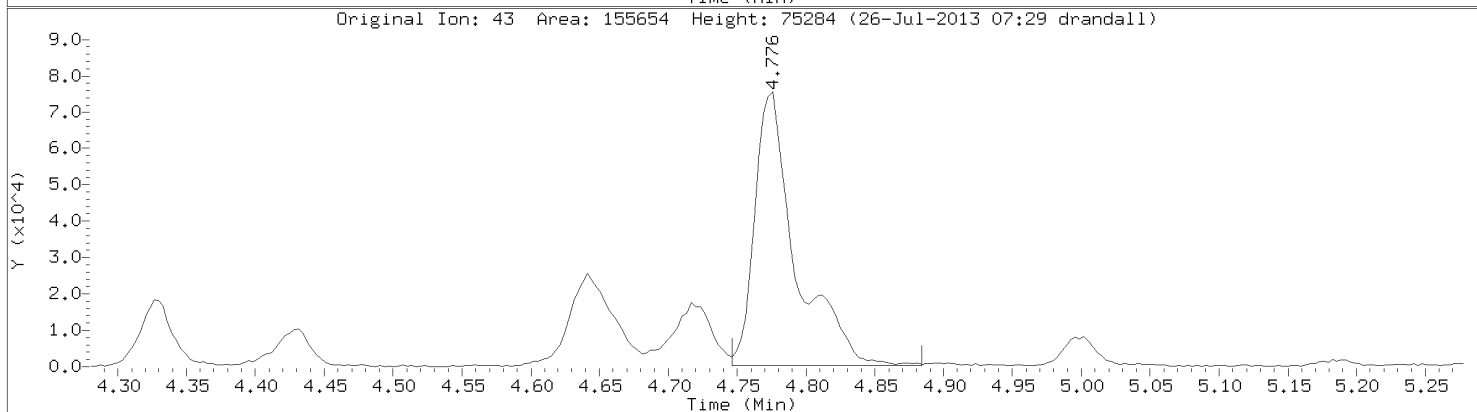
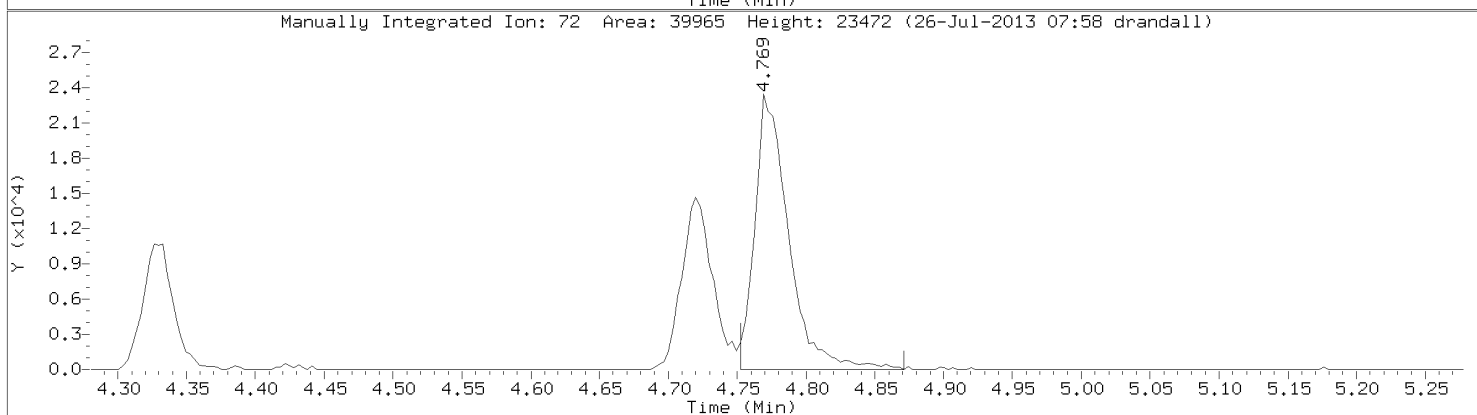
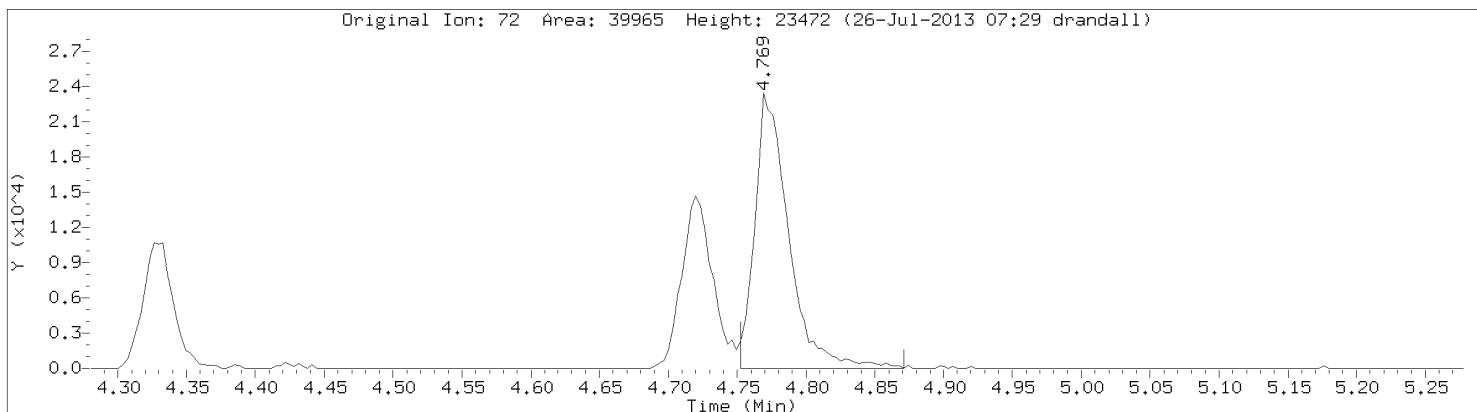
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Injection Date: 25-JUL-2013 20:25
Instrument: 10airD.i
Lab Sample ID: 10236207012

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



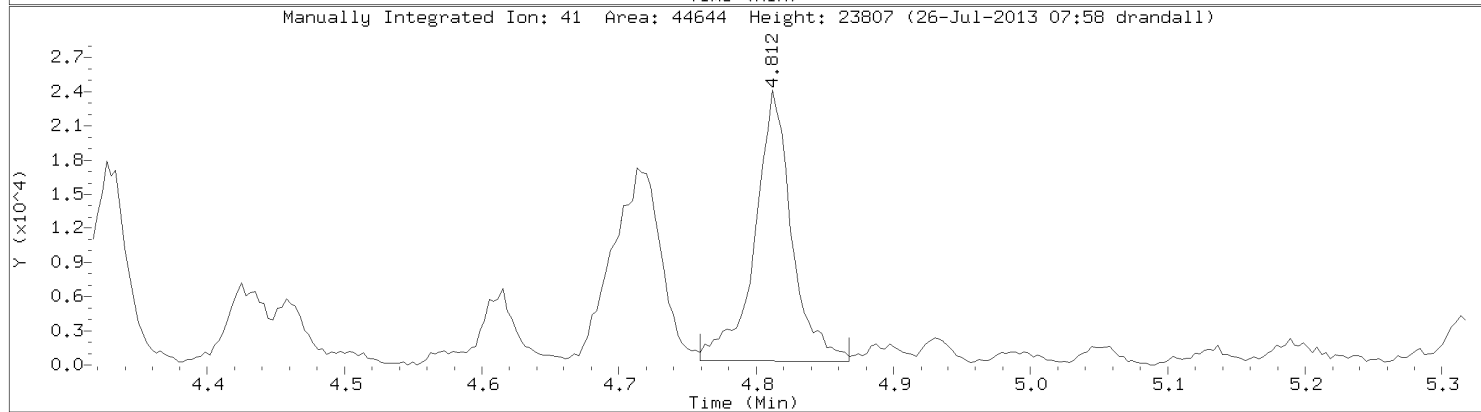
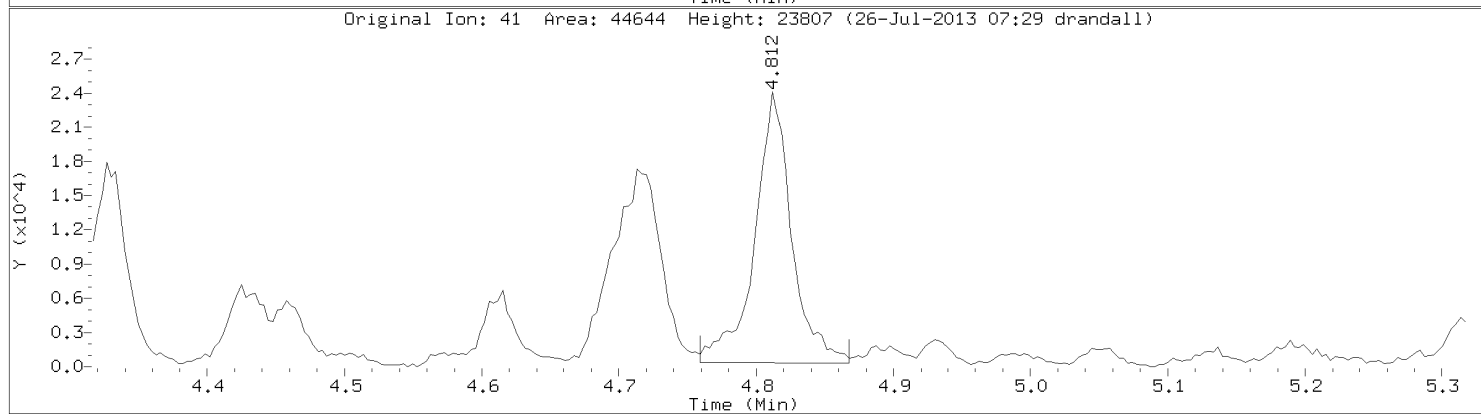
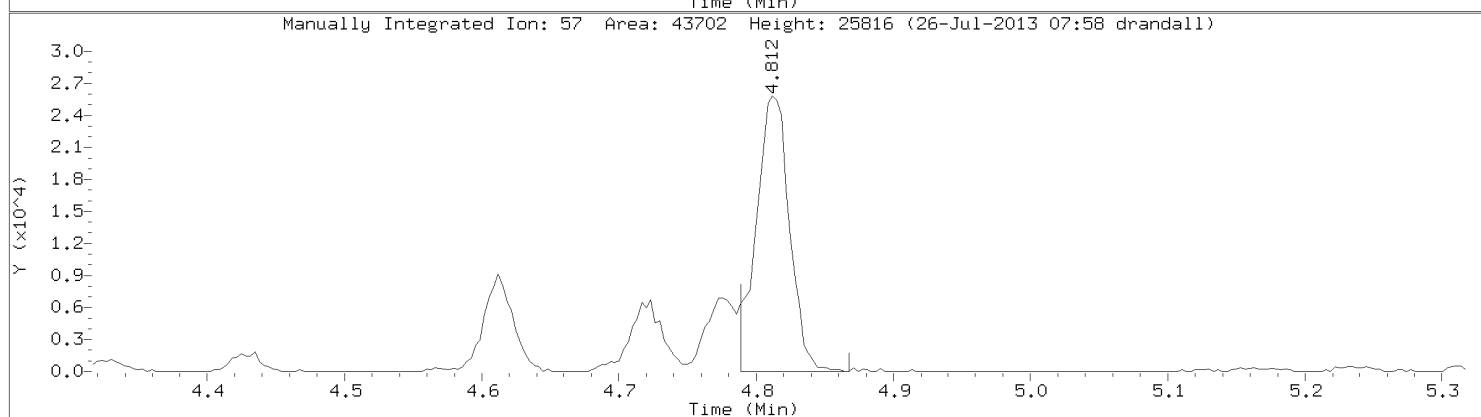
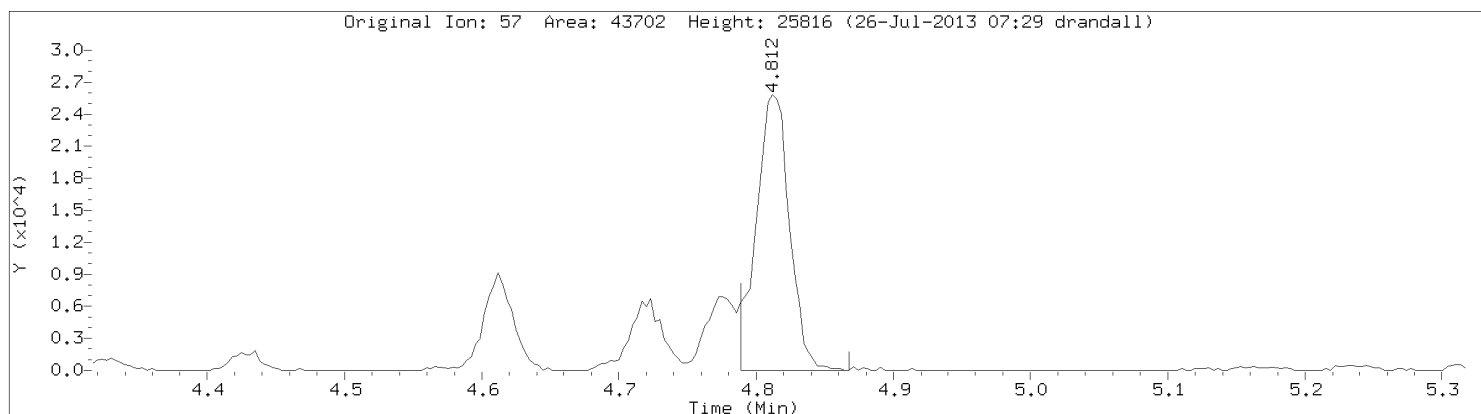
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Injection Date: 25-JUL-2013 20:25
Instrument: 10airD.i
Lab Sample ID: 10236207012

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

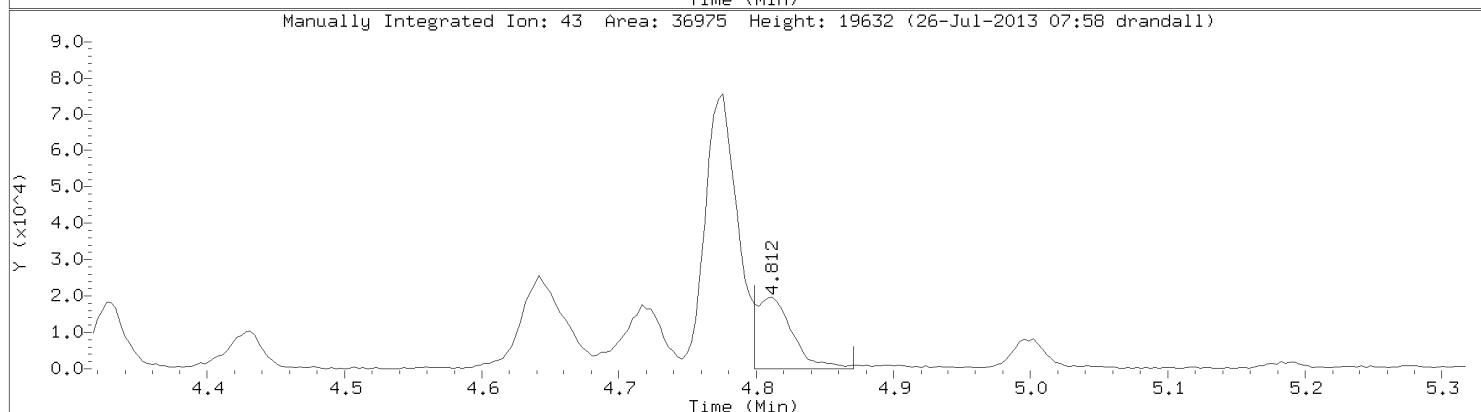
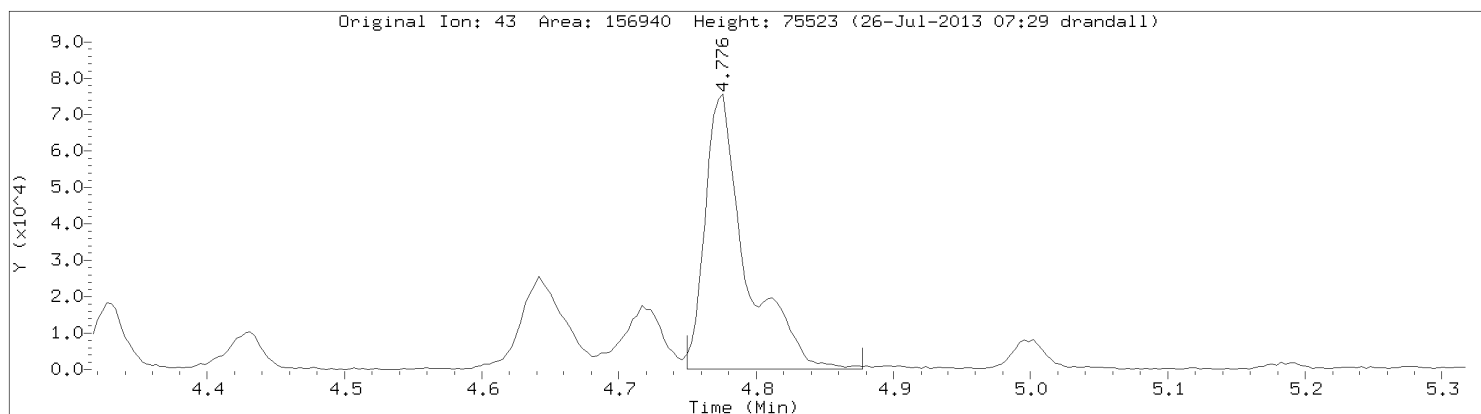


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Injection Date: 25-JUL-2013 20:25
Instrument: 10airD.i
Lab Sample ID: 10236207012

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

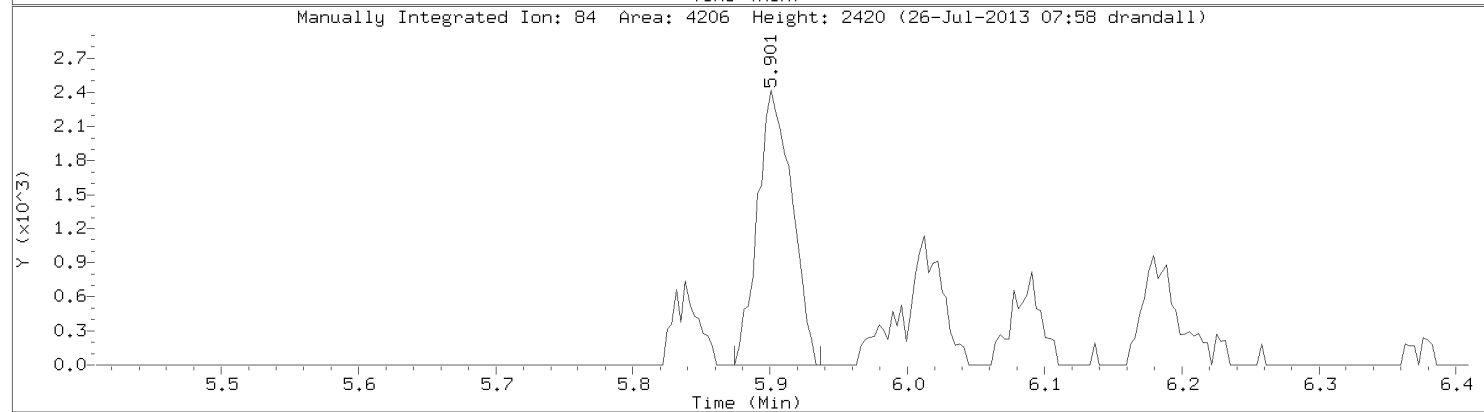
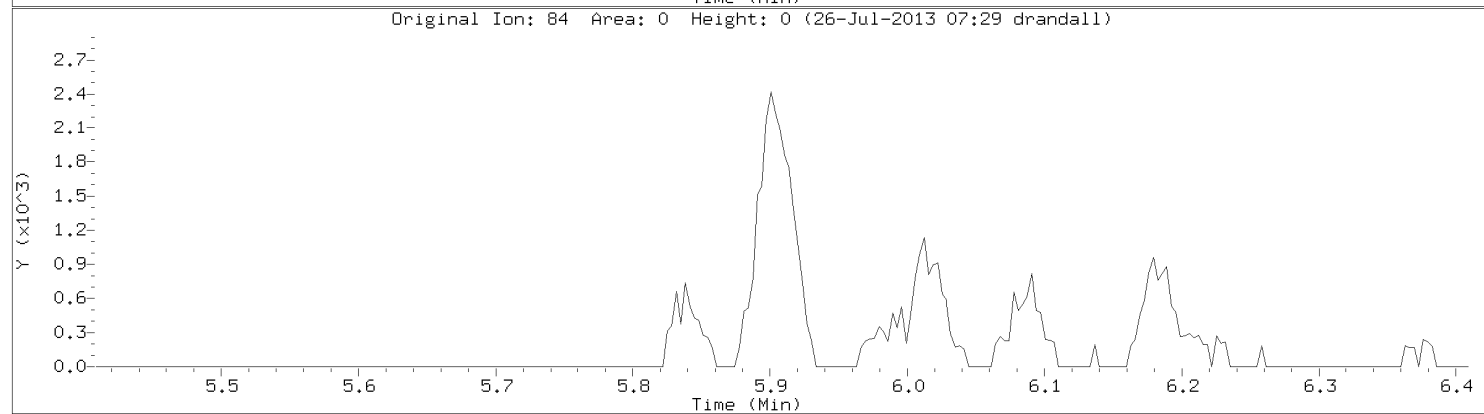
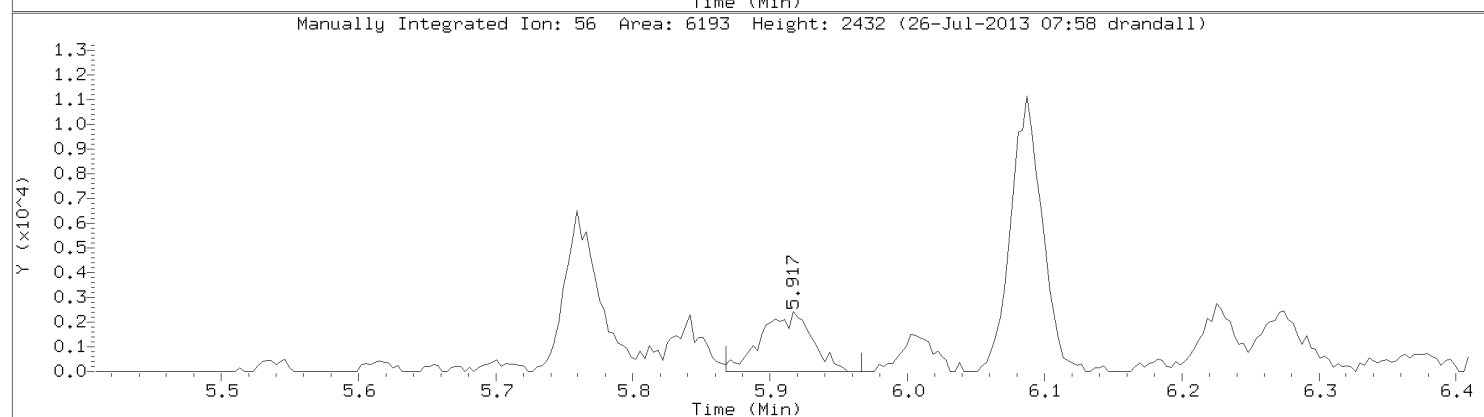
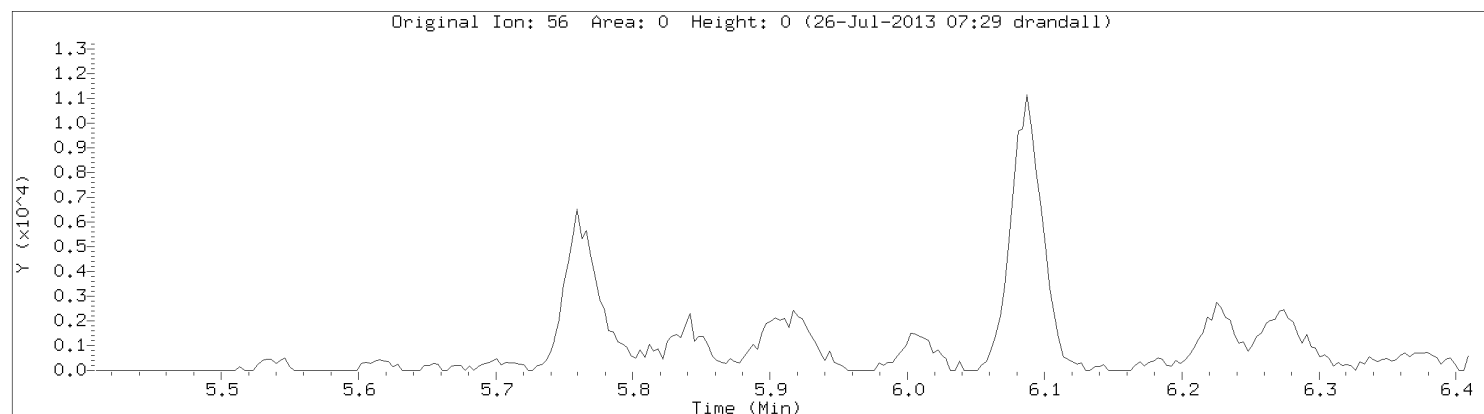


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Instrument: 10airD.i
Lab Sample ID: 10236207012

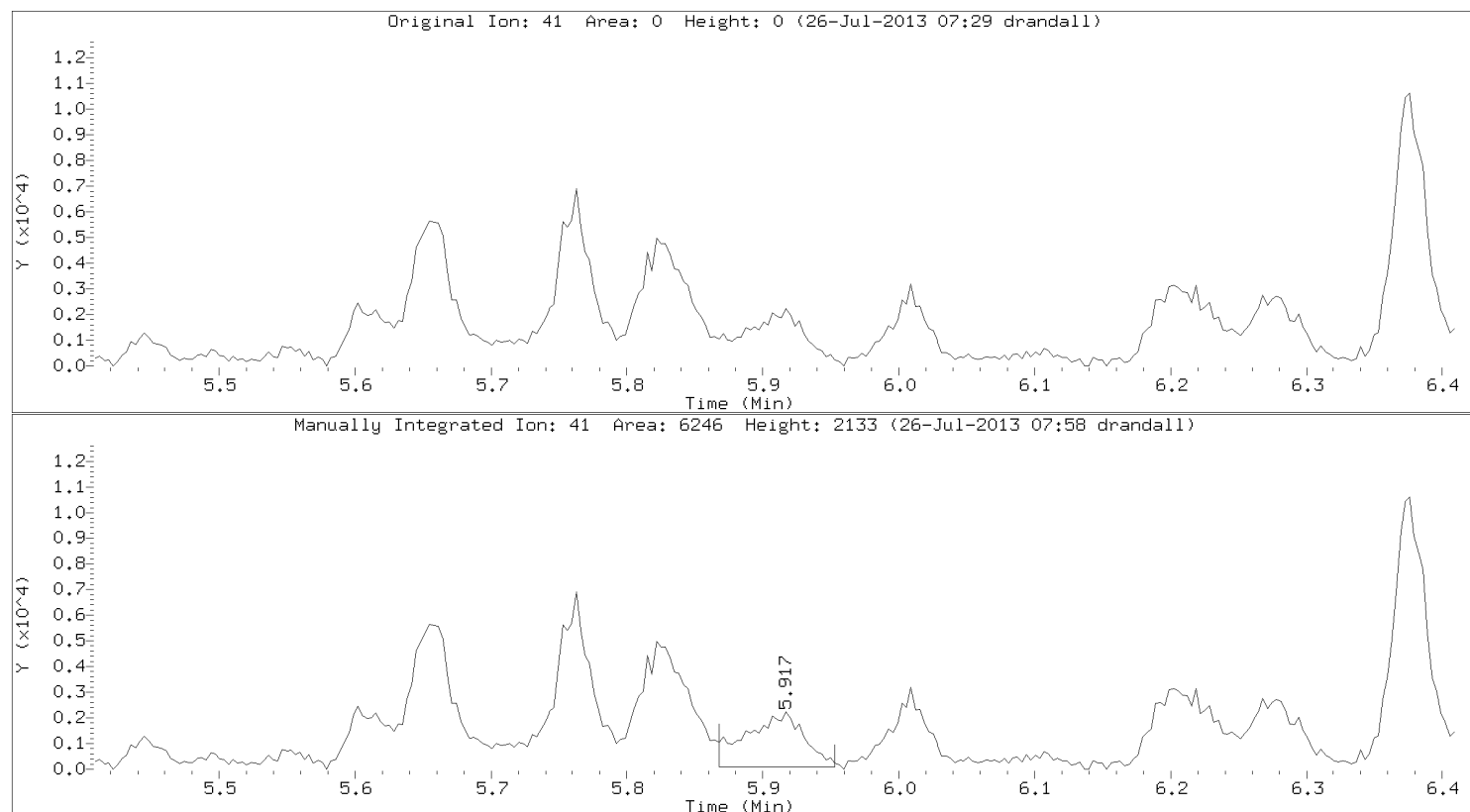


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Injection Date: 25-JUL-2013 20:25
Instrument: 10airD.i
Lab Sample ID: 10236207012

Compound: Cyclohexane
CAS Number: 110-82-7

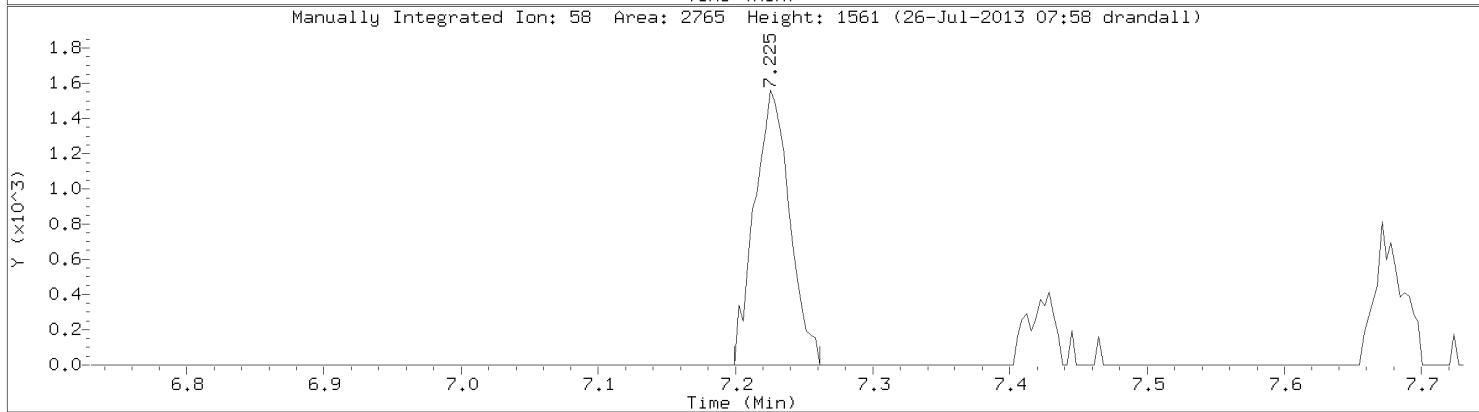
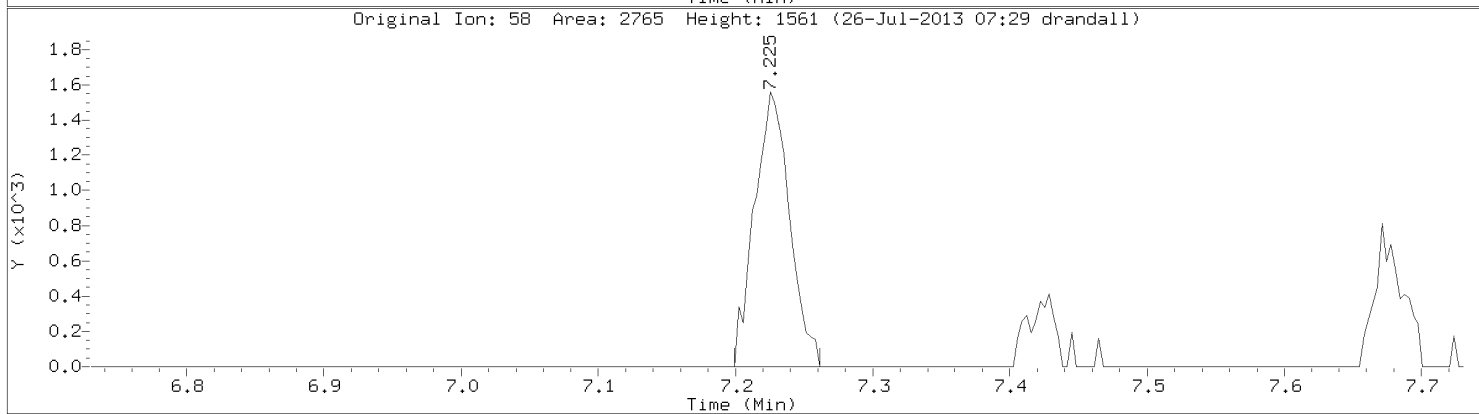
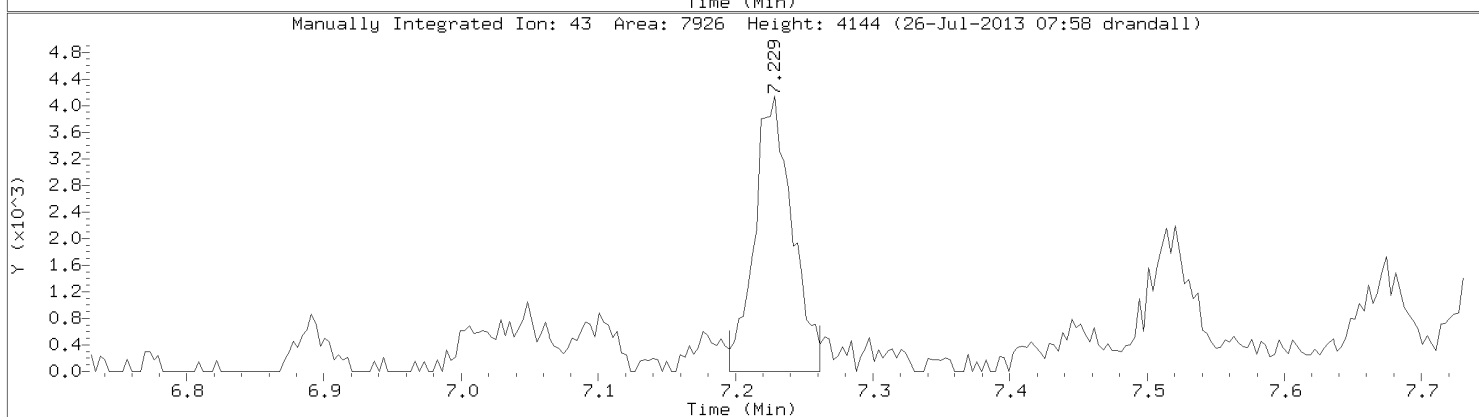
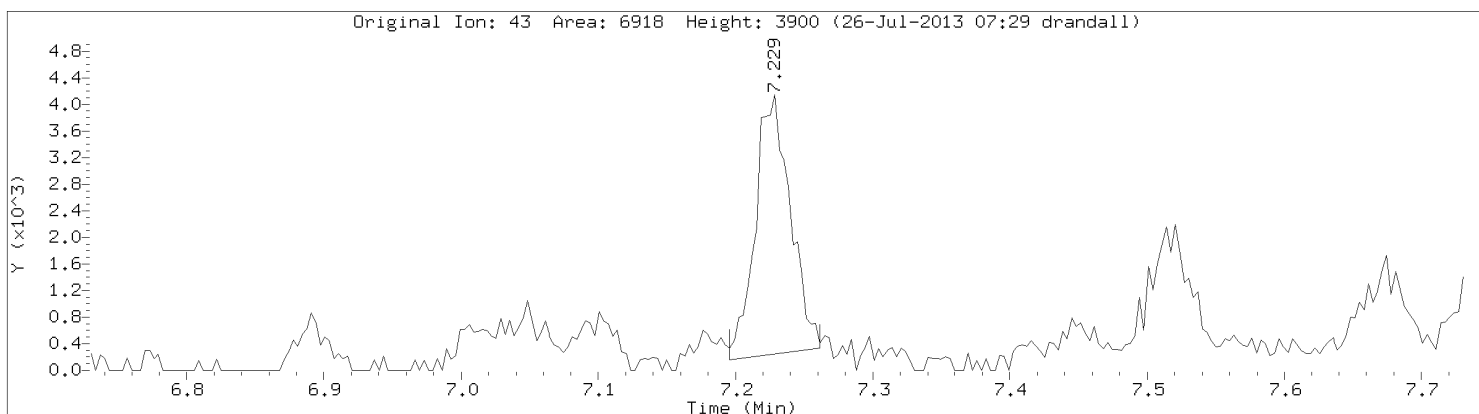


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Injection Date: 25-JUL-2013 20:25
Instrument: 10airD.i
Lab Sample ID: 10236207012

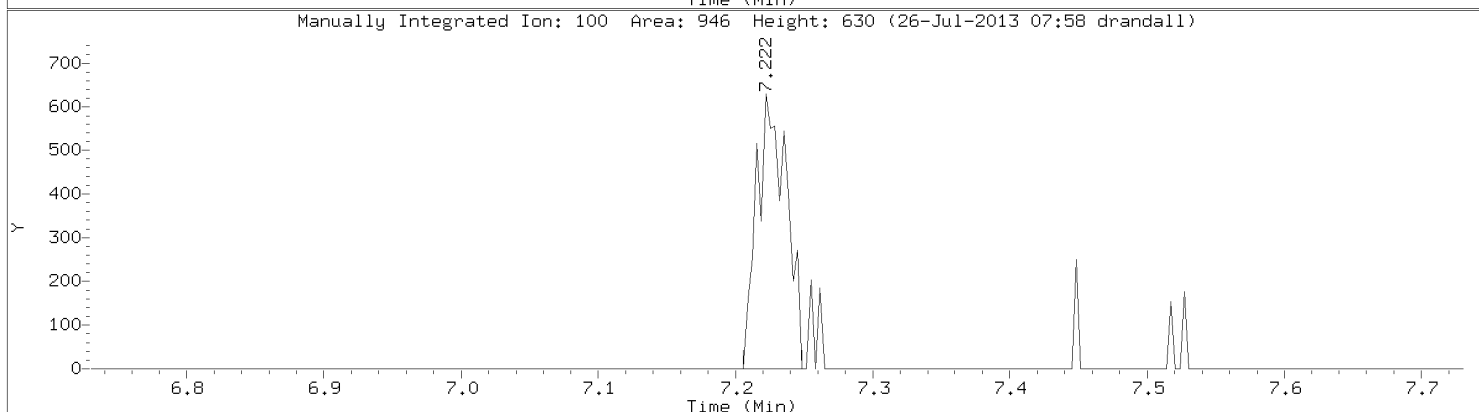
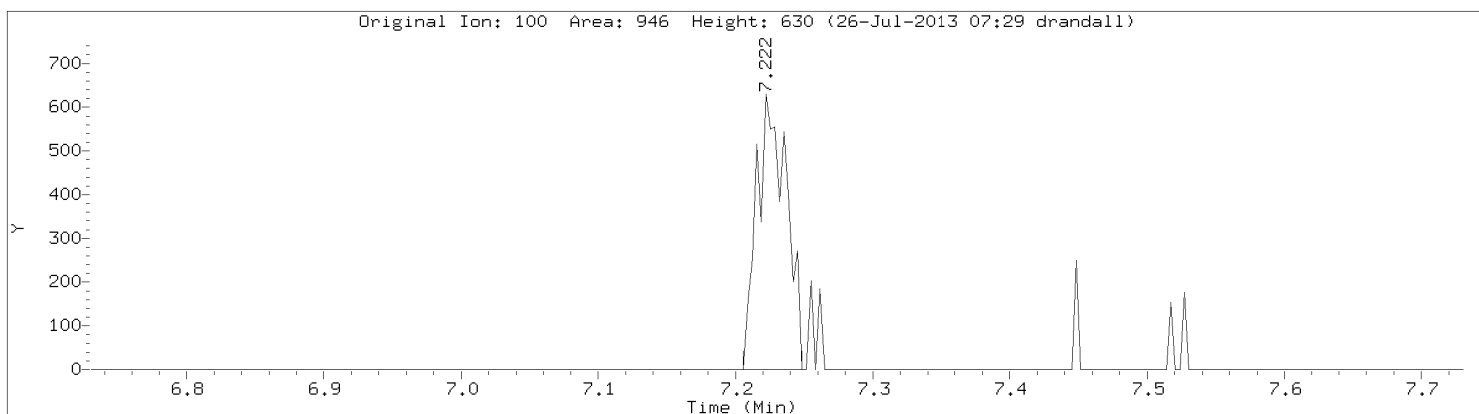


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Injection Date: 25-JUL-2013 20:25
Instrument: 10airD.i
Lab Sample ID: 10236207012

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

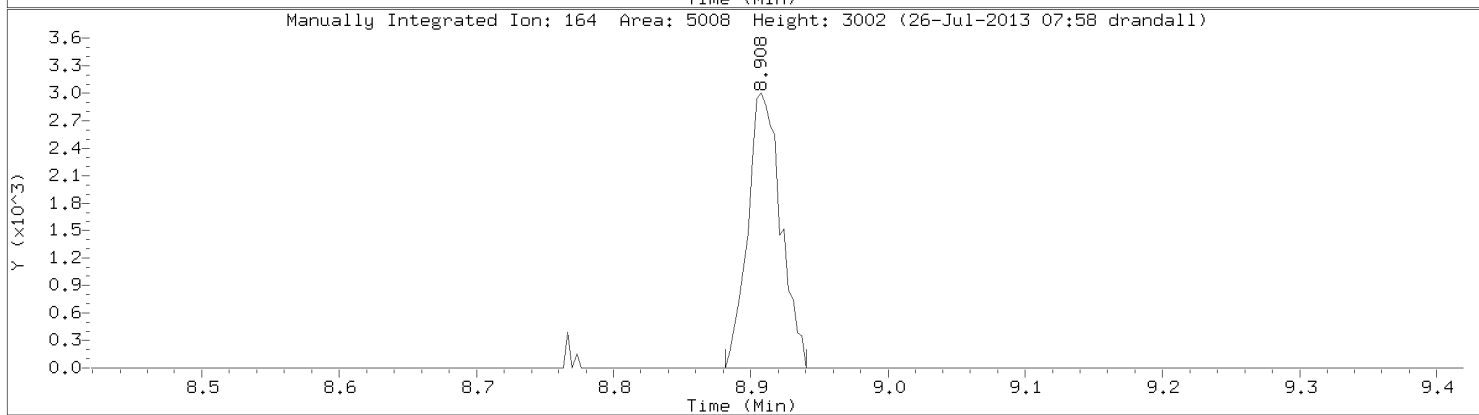
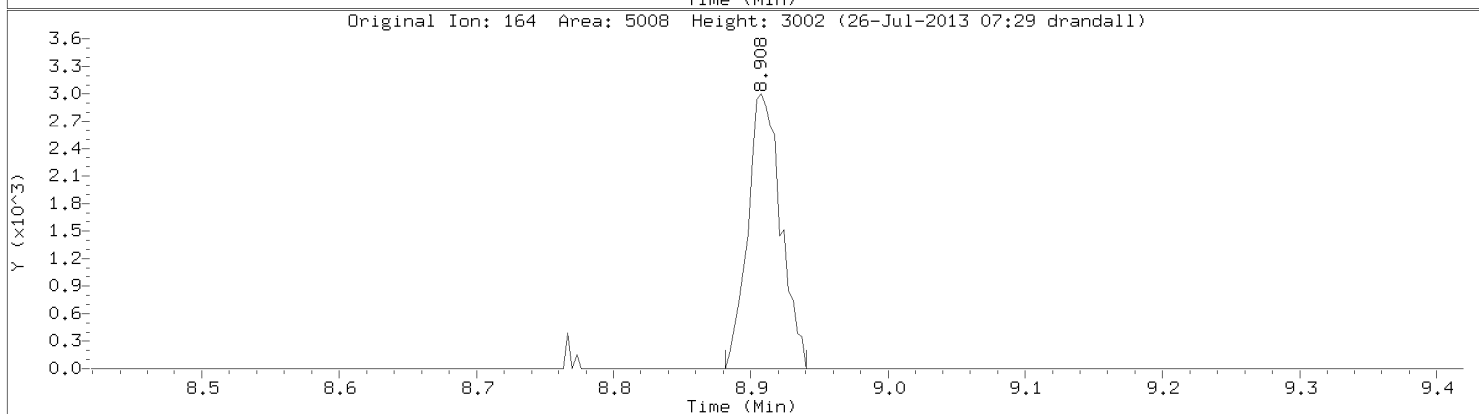
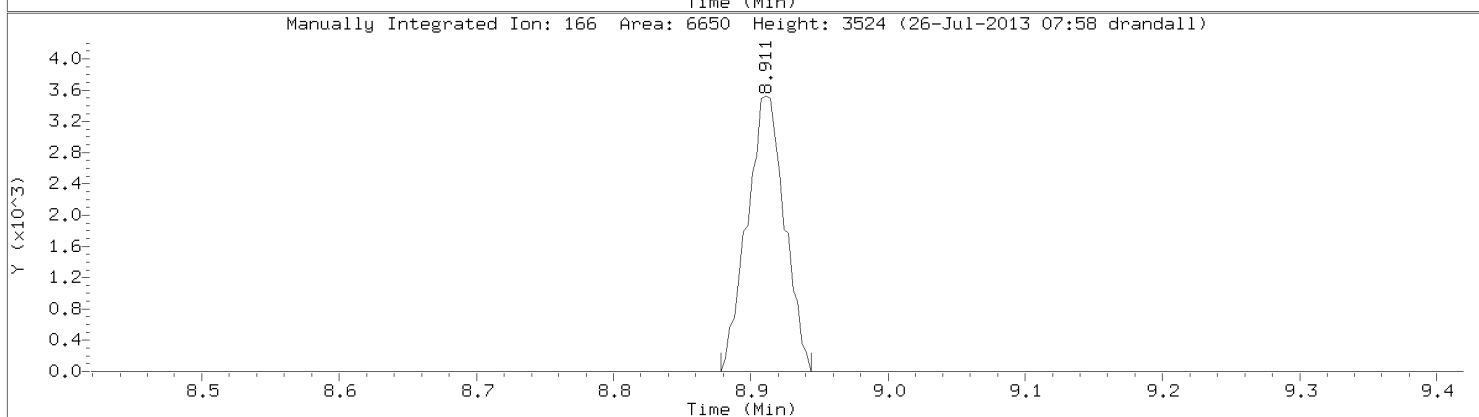
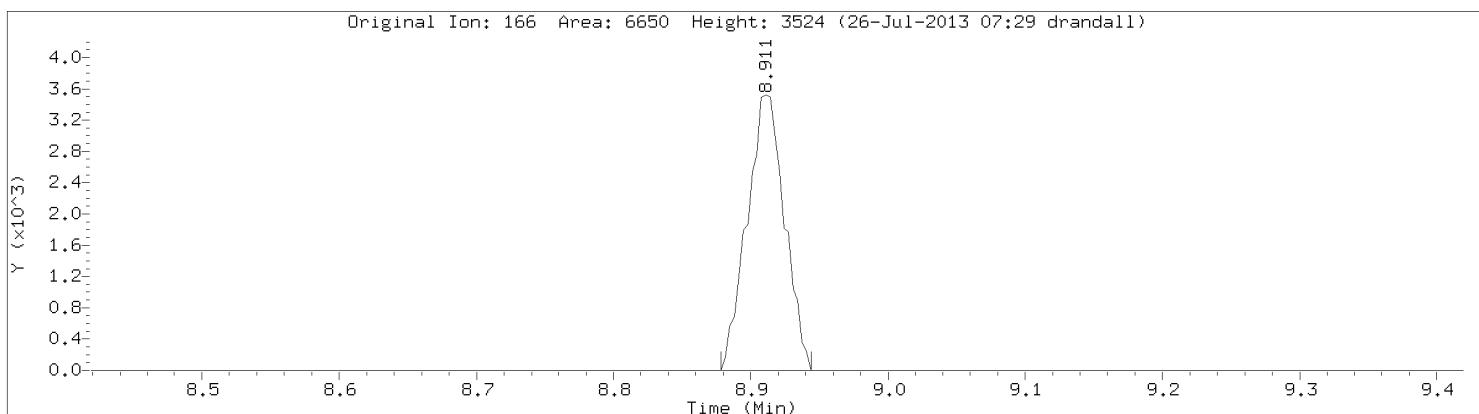


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Injection Date: 25-JUL-2013 20:25
Instrument: 10airD.i
Lab Sample ID: 10236207012

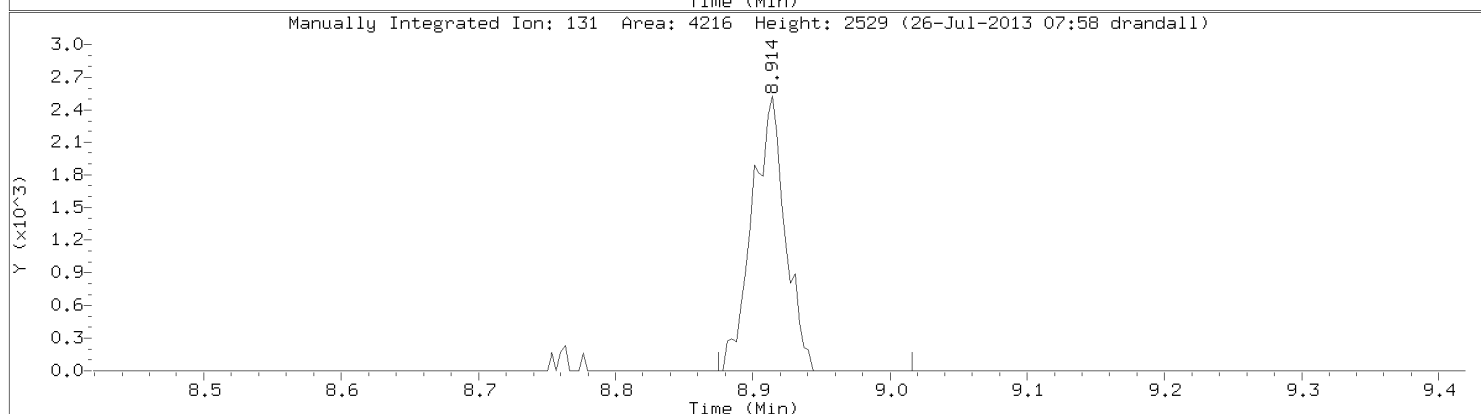
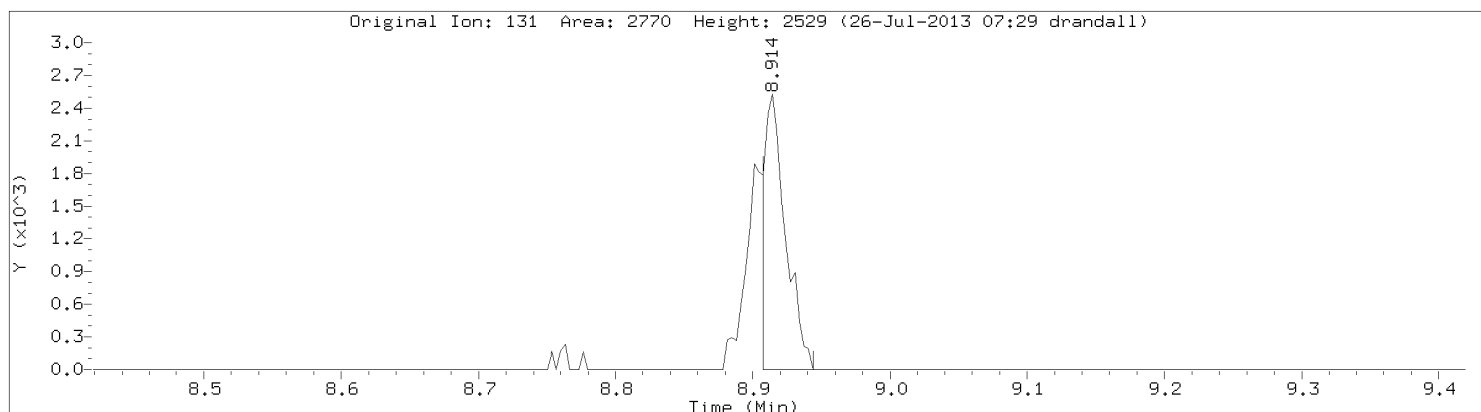


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Injection Date: 25-JUL-2013 20:25
Instrument: 10airD.i
Lab Sample ID: 10236207012

Compound: Tetrachloroethene
CAS Number: 127-18-4

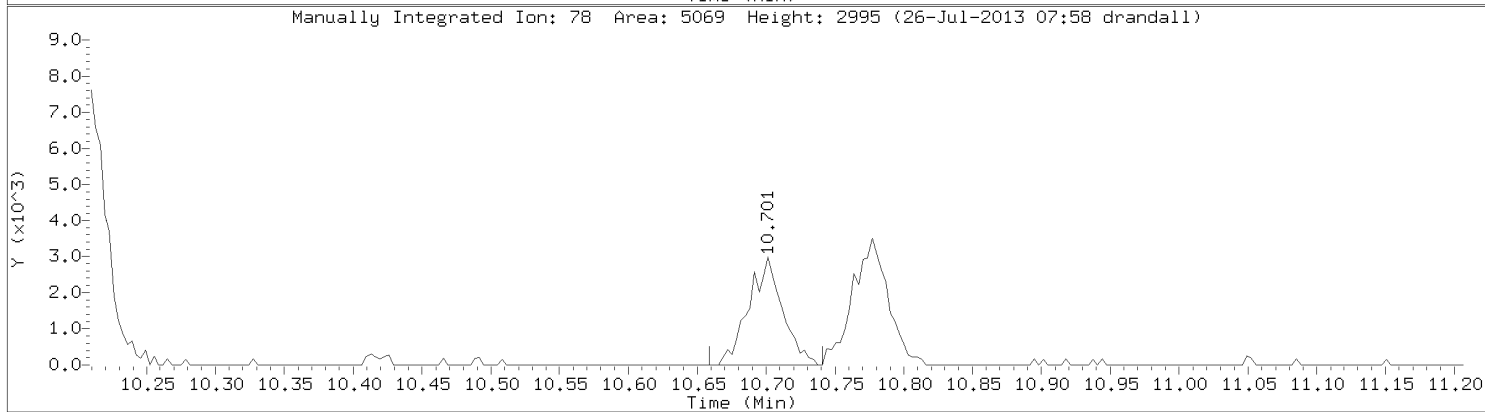
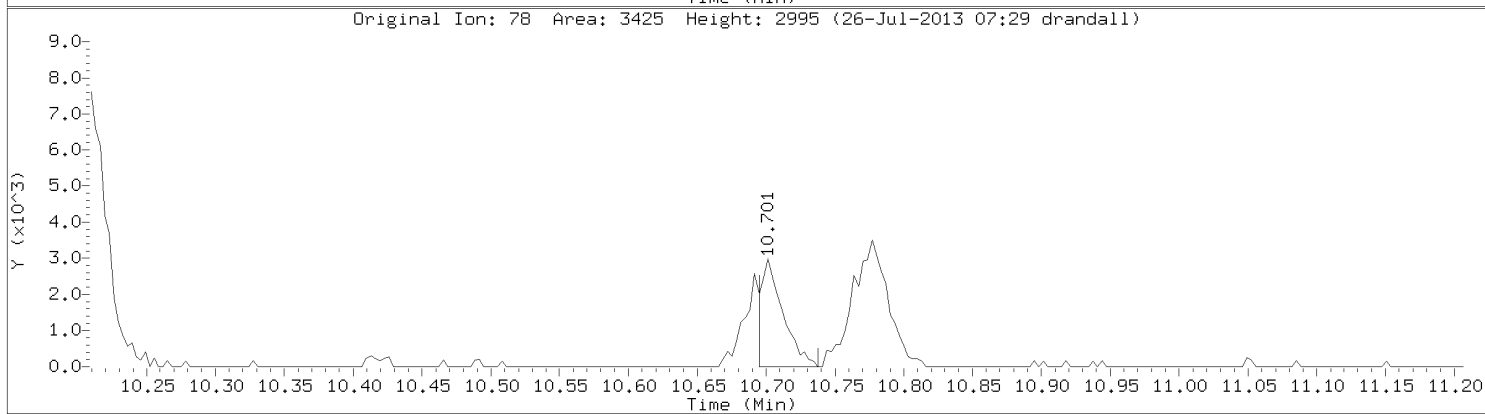
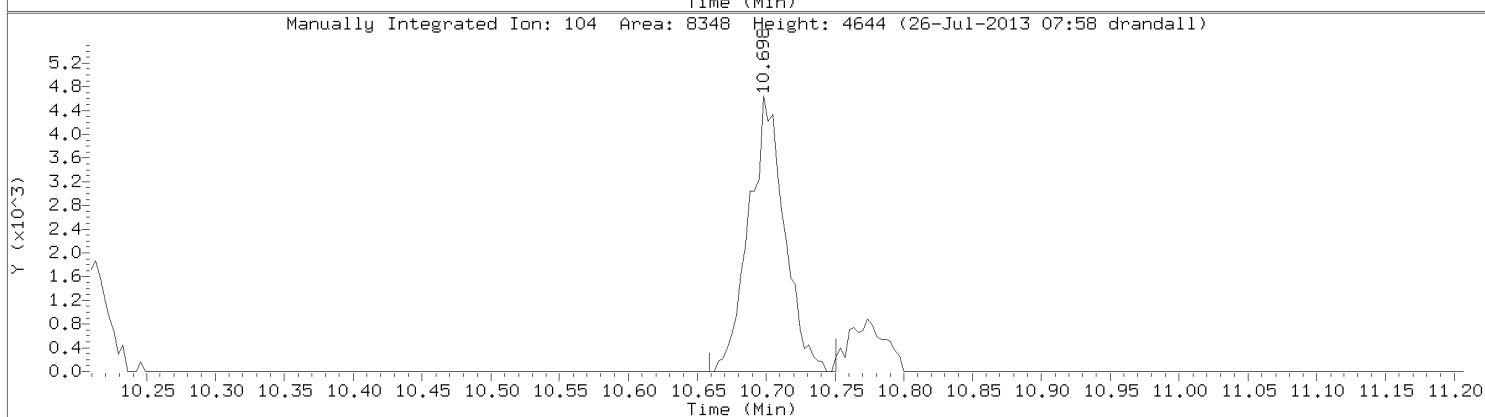
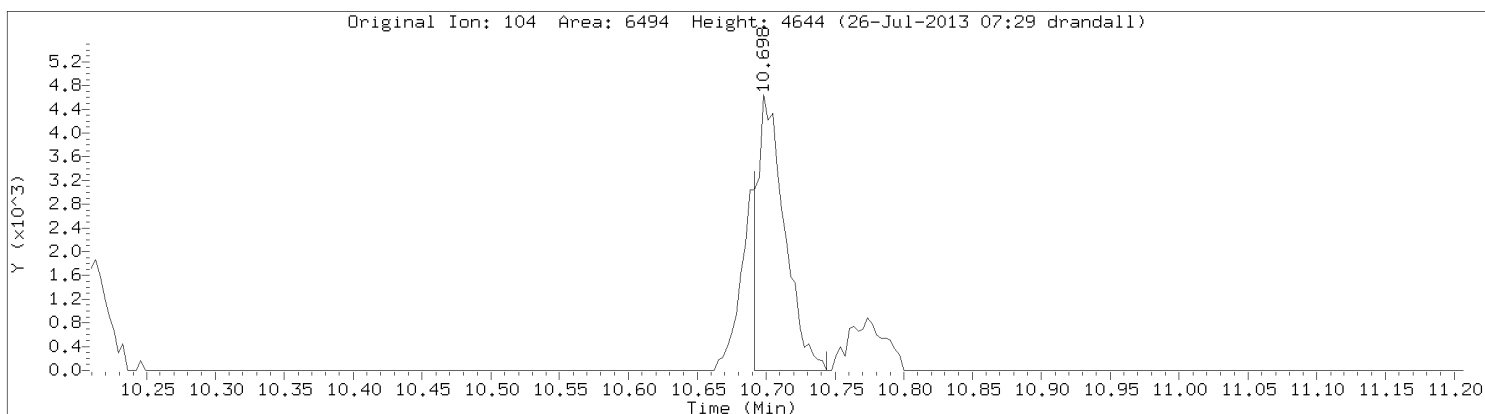


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Injection Date: 25-JUL-2013 20:25
Instrument: 10airD.i
Lab Sample ID: 10236207012

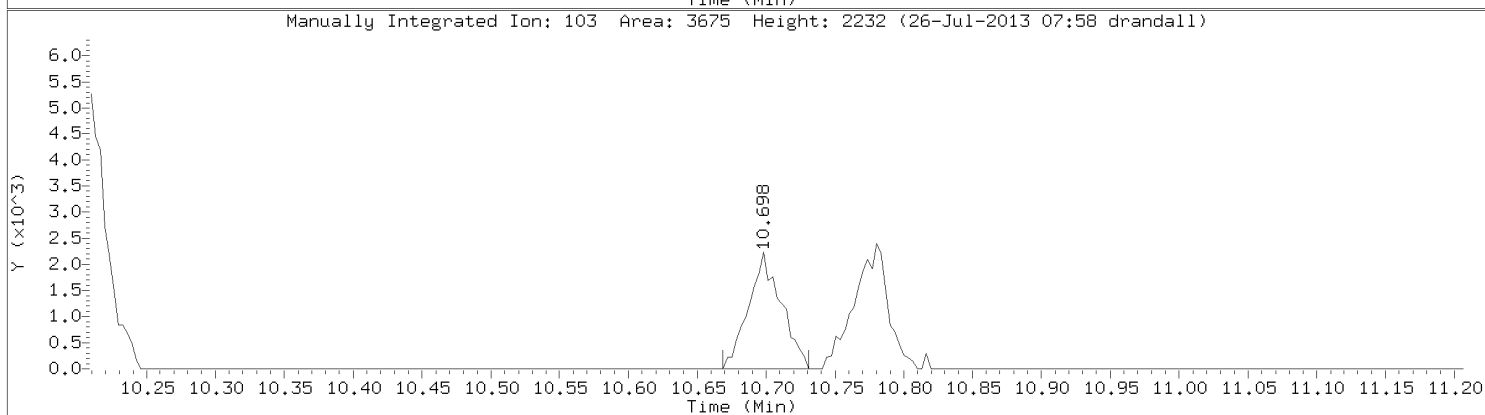
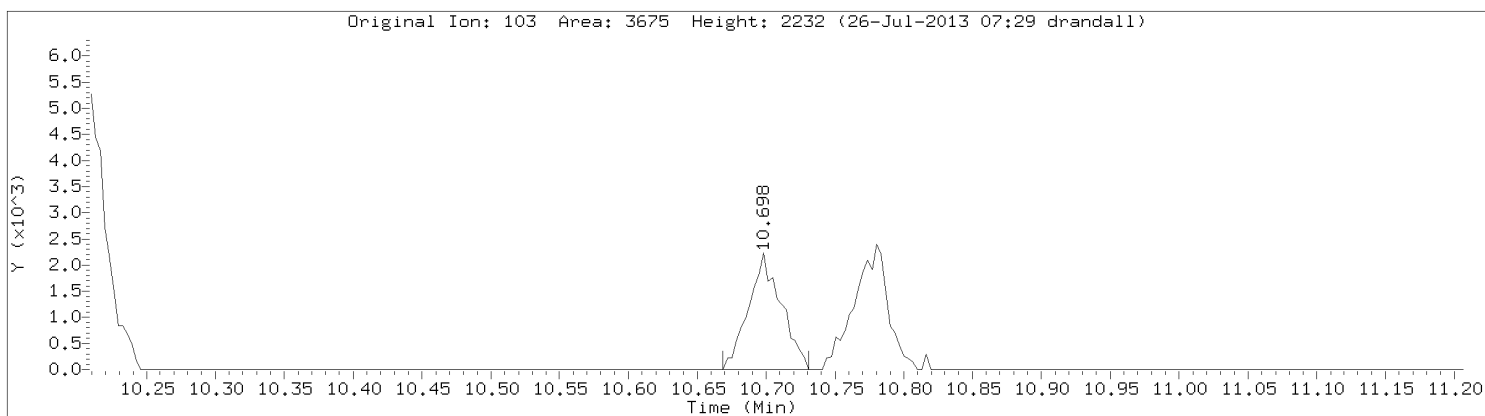


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Injection Date: 25-JUL-2013 20:25
Instrument: 10airD.i
Lab Sample ID: 10236207012

Compound: Styrene
CAS Number: 100-42-5

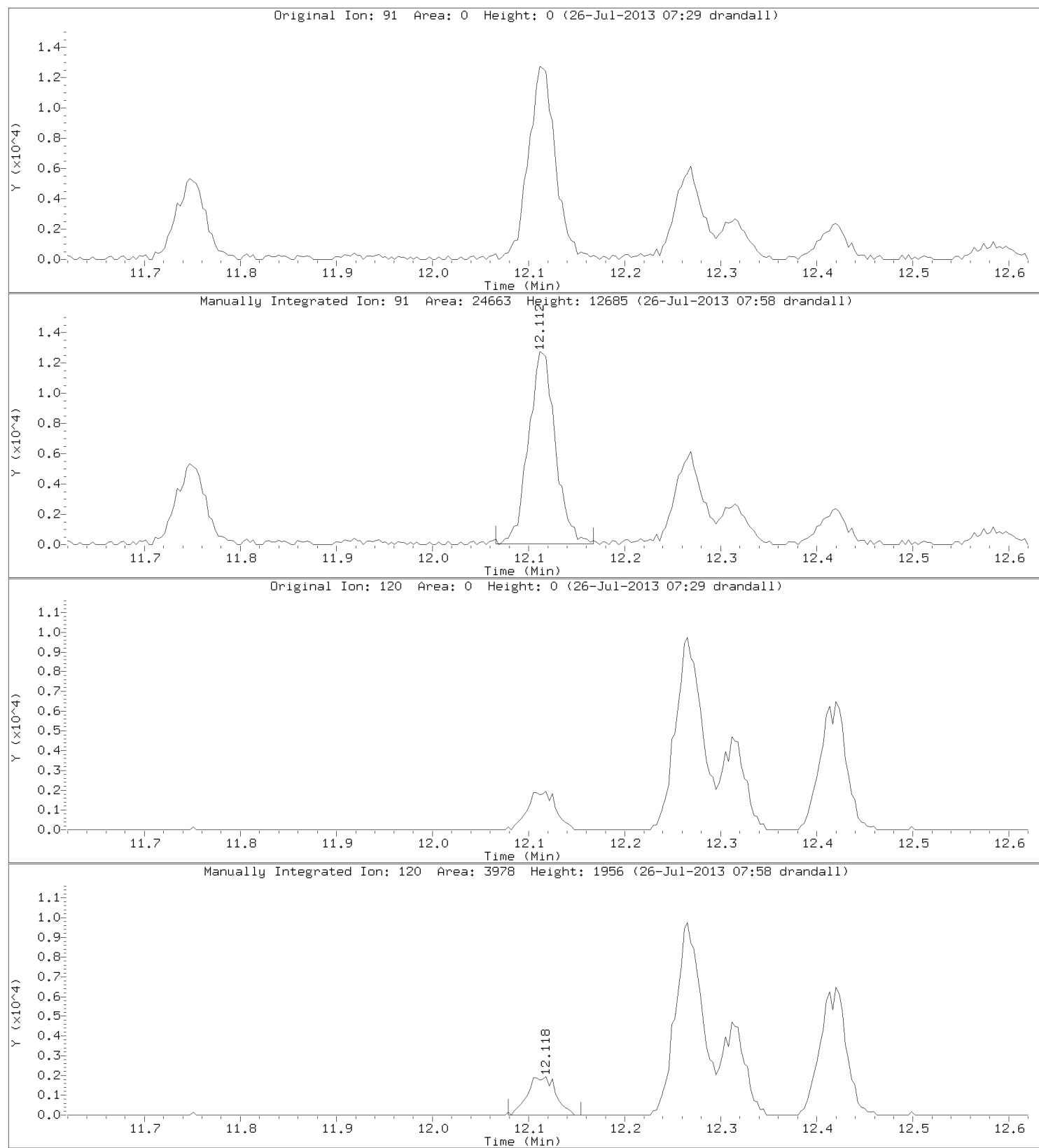


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Injection Date: 25-JUL-2013 20:25
Instrument: 10airD.i
Lab Sample ID: 10236207012



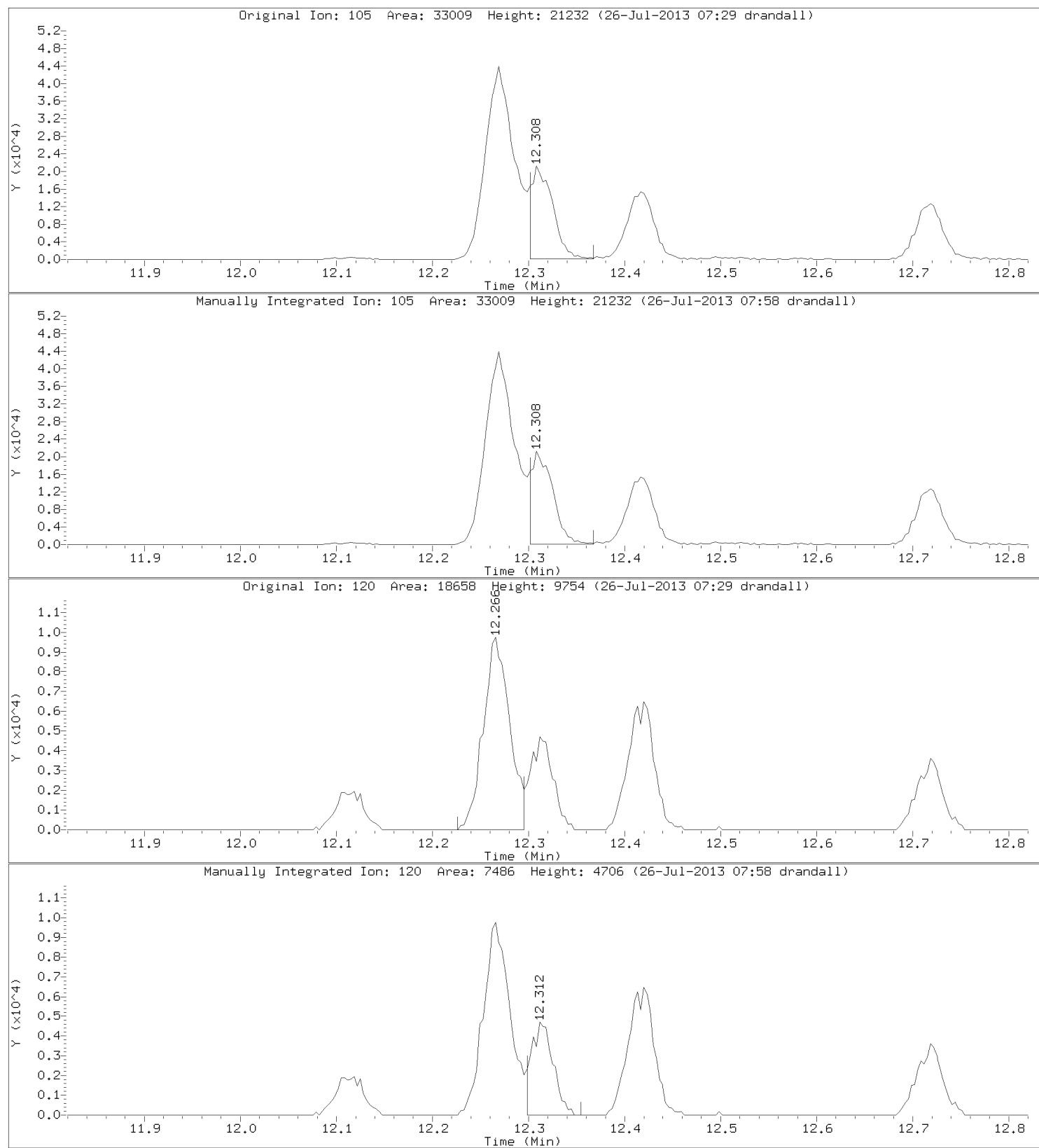
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Injection Date: 25-JUL-2013 20:25
Instrument: 10airD.i
Lab Sample ID: 10236207012

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

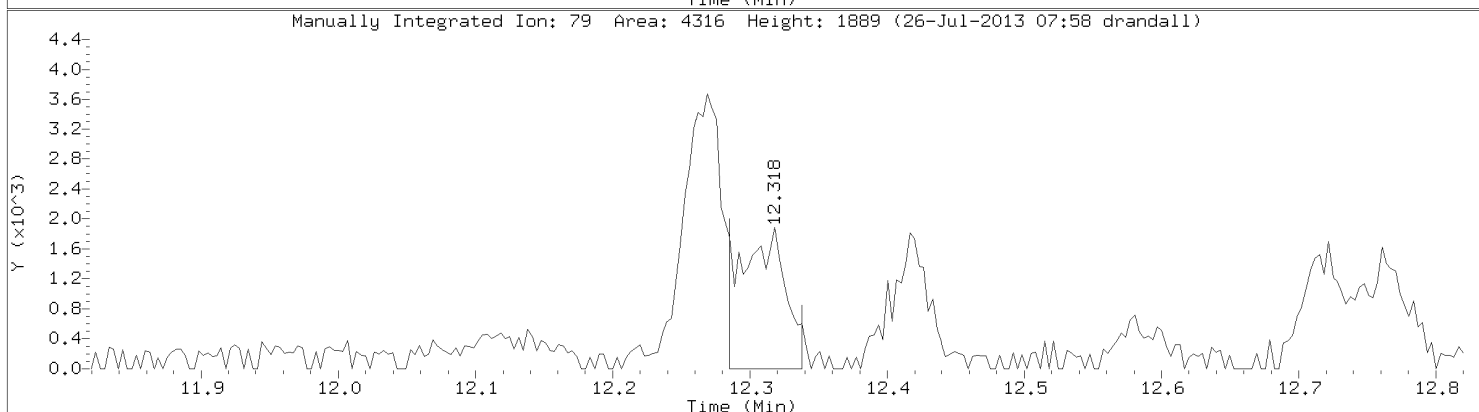
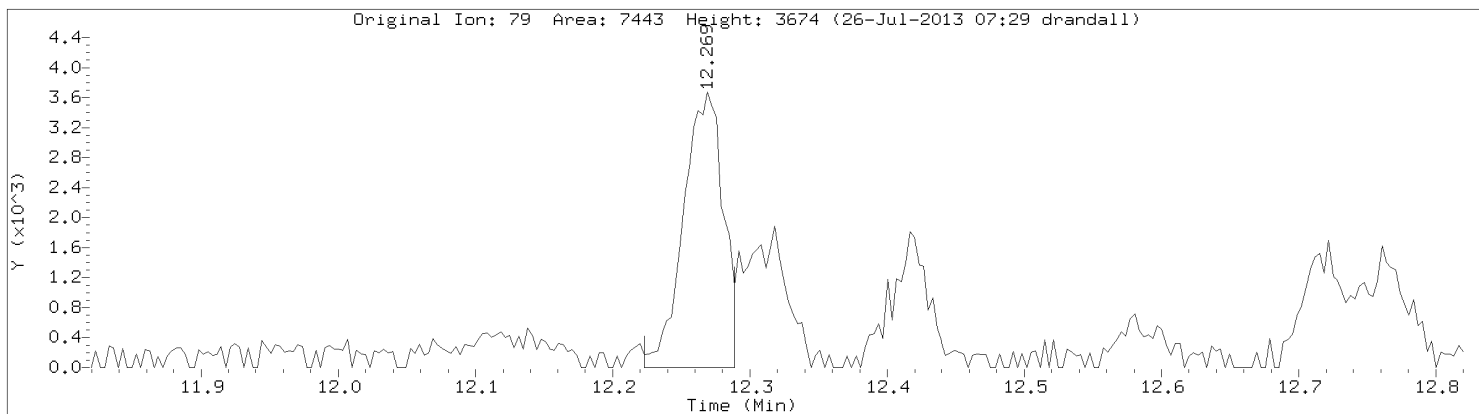


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Injection Date: 25-JUL-2013 20:25
Instrument: 10airD.i
Lab Sample ID: 10236207012

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

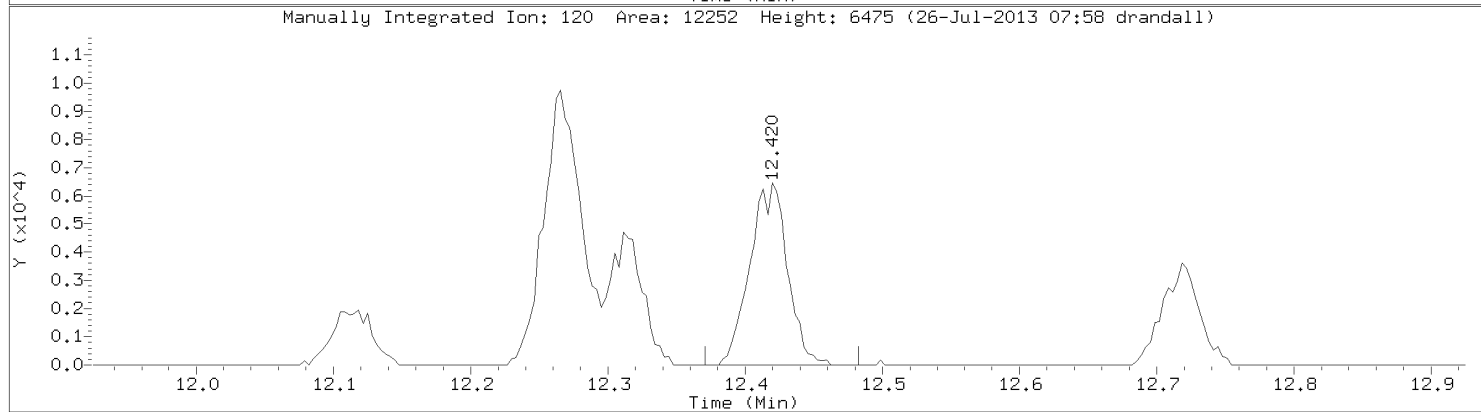
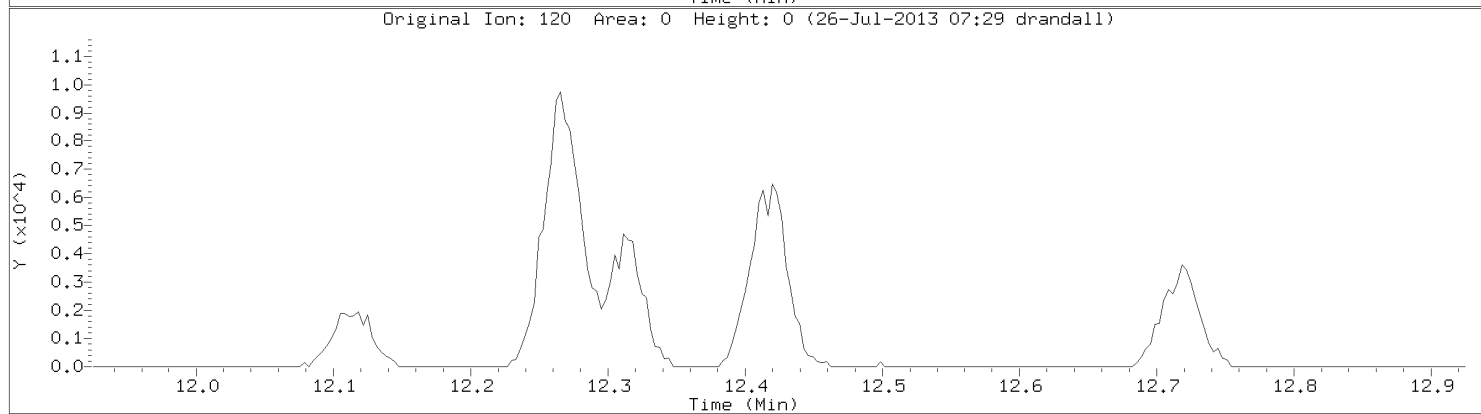
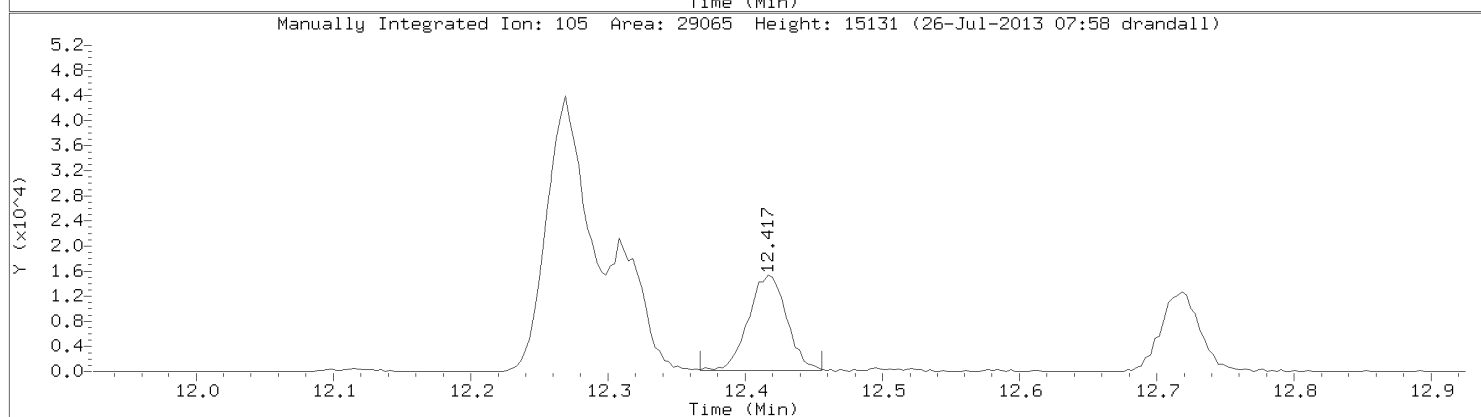
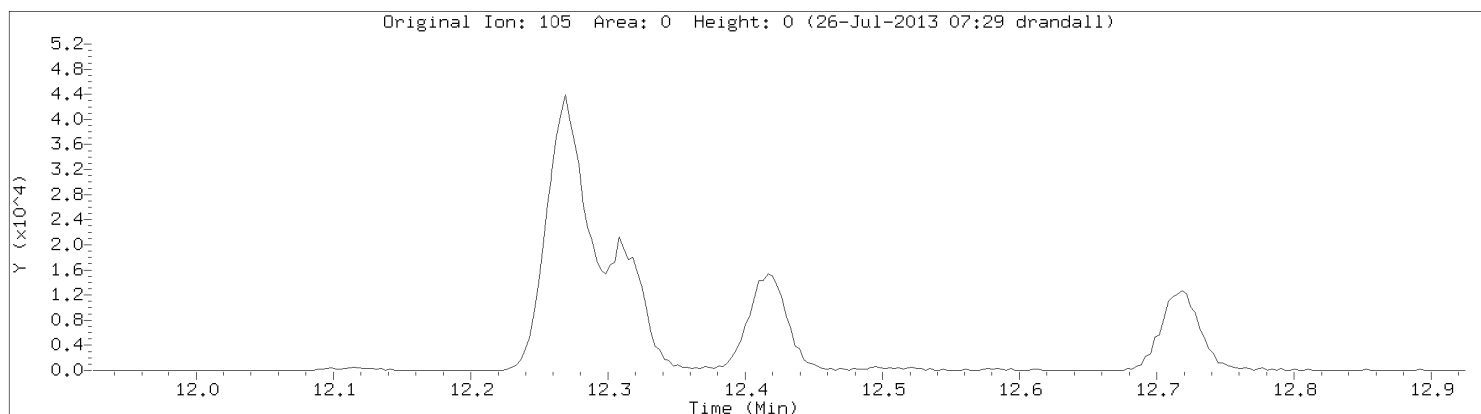


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Injection Date: 25-JUL-2013 20:25
Instrument: 10airD.i
Lab Sample ID: 10236207012



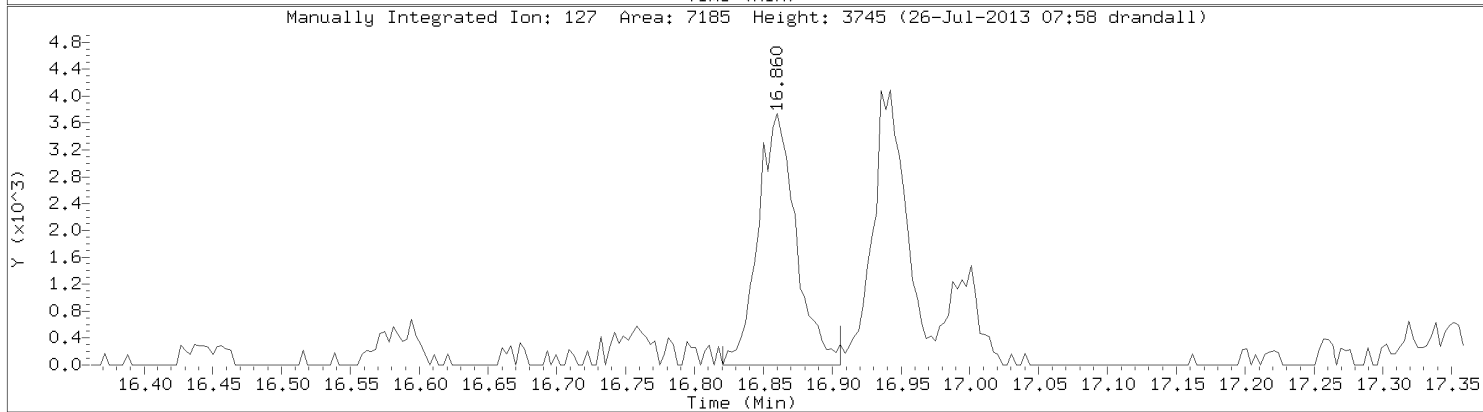
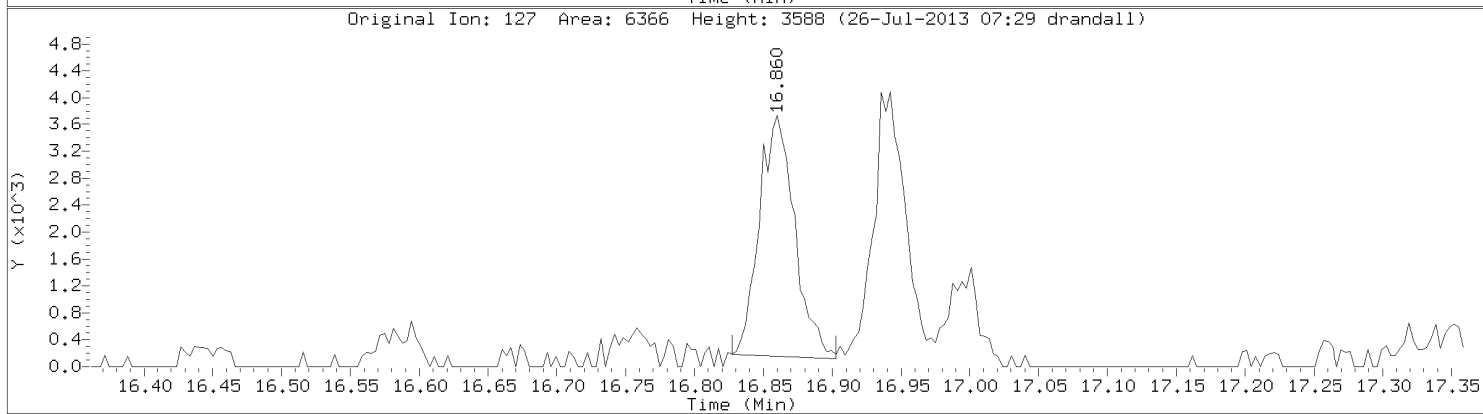
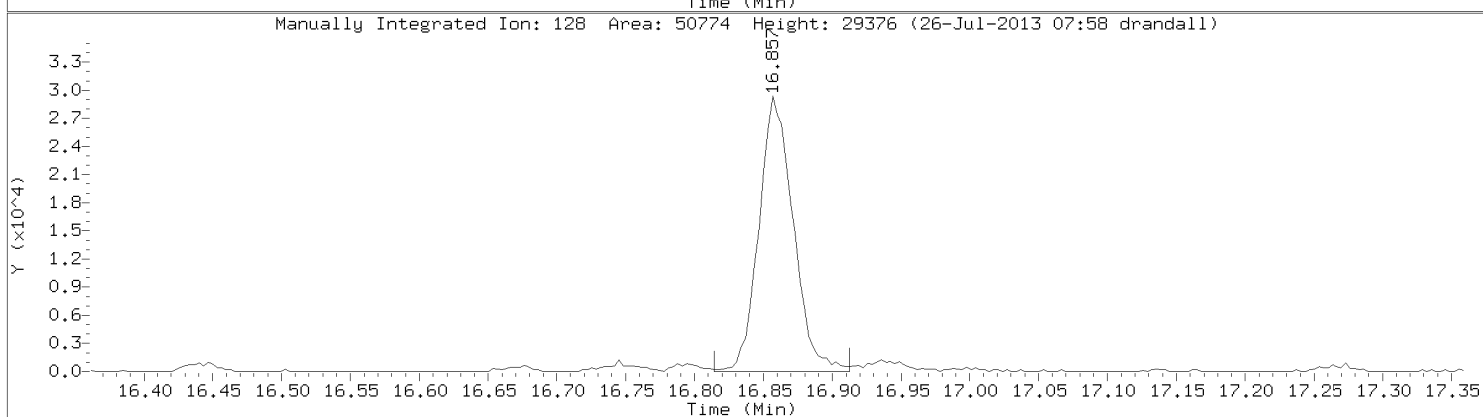
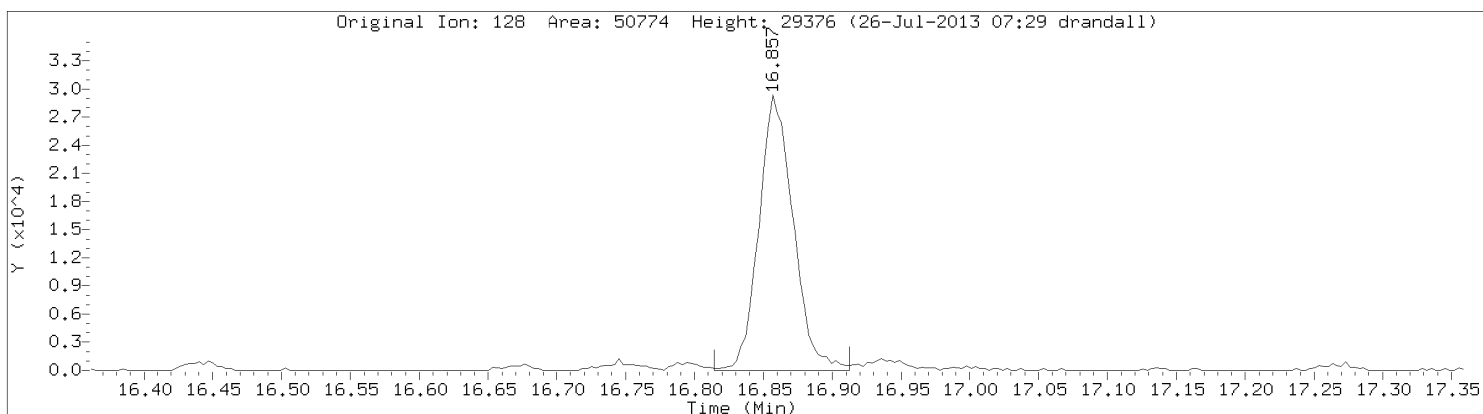
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Injection Date: 25-JUL-2013 20:25
Instrument: 10airD.i
Lab Sample ID: 10236207012

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



Data File: \\192.168.10.12\chem\10airD.i\072513.b\20616.d
Injection Date: 25-JUL-2013 20:25
Instrument: 10airD.i
Lab Sample ID: 10236207012

Compound: Naphthalene
CAS Number: 91-20-3



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072513.b\20630.d
 Lab Smp Id: 10236207013
 Inj Date : 26-JUL-2013 03:33
 Operator : DR1 Inst ID: 10airD.i
 Smp Info :
 Misc Info : 17870
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
 Meth Date : 25-Jul-2013 16:57 creindl Quant Type: ISTD
 Cal Date : 24-JUL-2013 16:39 Cal File: 20509.d
 Als bottle: 30
 Dil Factor: 1.49000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10AIRPC4

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.490	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
1 Propylene	41		2.978	2.982	(0.489)	302022	33.2033	49.5 (A)
2 Dichlorodifluoromethane	85		3.005	3.008	(0.494)	23569	0.26957	0.402
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		3.493	3.494	(0.574)	50320	4.83091	7.20 (M)
10 Vinyl Bromide	106							Compound Not Detected.
11 Acrolein	56		3.687	3.684	(0.606)	9964	1.56304	2.33 (QM)
12 Trichlorofluoromethane	101		3.696	3.694	(0.607)	11713	0.12315	0.184
13 Acetone	43		3.723	3.726	(0.612)	527951	11.0741	16.5
14 Isopropyl Alcohol	45		3.755	3.756	(0.617)	33382	1.06759	1.59 (Q)
15 1,1-Dichloroethene	61							Compound Not Detected.
16 Acrylonitrile	53							Compound Not Detected.
17 Tert Butyl Alcohol	59		3.982	3.989	(0.654)	108394	2.16723	3.23 (M)
18 Freon 113	101							Compound Not Detected.
19 Methylene chloride	49		4.093	4.094	(0.672)	9054	0.33520	0.499
20 Allyl Chloride	76							Compound Not Detected.
21 Carbon Disulfide	76		4.224	4.224	(0.694)	134769	1.71458	2.55
22 trans-1,2-dichloroethene	96							Compound Not Detected.
23 Methyl Tert Butyl Ether	73		4.457	4.458	(0.732)	72321	1.07872	1.61 (M)
24 Vinyl Acetate	43							Compound Not Detected.

Compounds	QUANT MASS	SIG						CONCENTRATIONS	
			RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppbv)	FINAL (ppbv)	
25 1,1-Dichloroethane	63		Compound Not Detected.						
\$ 26 Hexane-d14(S)	66		4.697	4.700	(0.772)	307521	8.85557	8.86	
27 Methyl Ethyl Ketone	72		4.775	4.779	(0.785)	59763	5.41452	8.07	
28 n-Hexane	57		4.815	4.818	(0.791)	52655	1.66797	2.48 (M)	
29 cis-1,2-Dichloroethene	96		Compound Not Detected.						
30 Ethyl Acetate	43		Compound Not Detected.						
31 Chloroform	83		Compound Not Detected.						
32 Tetrahydrofuran	42		Compound Not Detected.						
33 1,1,1-Trichloroethane	97		Compound Not Detected.						
34 1,2-Dichloroethane	62		Compound Not Detected.						
35 Benzene	78		5.877	5.887	(0.966)	59607	1.27931	1.91	
36 Carbon tetrachloride	117		Compound Not Detected.						
37 Cyclohexane	56		5.907	5.910	(0.970)	9560	0.83539	1.24 (QM)	
* 38 1,4-Difluorobenzene	114		6.087	6.094	(1.000)	719129	10.0000		
39 2,2,4-Trimethylpentane	57		Compound Not Detected.						
40 Heptane	43		6.435	6.442	(1.057)	15471	1.04724	1.56	
41 1,2-Dichloropropane	63		Compound Not Detected.						
42 Trichloroethene	130		Compound Not Detected.						
43 1,4-Dioxane	88		Compound Not Detected.						
44 Bromodichloromethane	83		Compound Not Detected.						
45 Methyl Isobutyl Ketone	43		Compound Not Detected.						
46 cis-1,3-Dichloropropene	75		Compound Not Detected.						
47 trans-1,3-Dichloropropene	75		Compound Not Detected.						
\$ 48 Toluene-d8 (S)	98		7.841	7.848	(1.288)	534937	10.6511	10.6	
49 Toluene	91		7.930	7.940	(1.303)	176915	2.43123	3.62	
50 1,1,2-Trichloroethane	97		Compound Not Detected.						
51 Methyl Butyl Ketone	43		8.245	8.244	(0.851)	11231	0.63099	0.940	
52 Dibromochloromethane	129		Compound Not Detected.						
53 1,2-Dibromoethane	107		Compound Not Detected.						
54 Tetrachloroethene	166		8.914	8.918	(0.920)	6158	0.51414	0.766	
* 55 Chlorobenzene - d5	117		9.684	9.691	(1.000)	286038	10.0000		
56 Chlorobenzene	112		Compound Not Detected.						
57 Ethyl Benzene	91		10.029	10.039	(1.036)	72552	0.95741	1.43	
58 m&p-Xylene	91		10.199	10.213	(1.053)	260154	3.18775	4.75	
59 Bromoform	173		Compound Not Detected.						
60 Styrene	104		10.698	10.708	(1.105)	10248	0.64204	0.957	
61 o-Xylene	91		10.773	10.783	(1.112)	96949	1.24446	1.85	
62 1,1,2,2-Tetrachloroethane	83		Compound Not Detected.						
63 Isopropylbenzene	105		Compound Not Detected.						
64 N-Propylbenzene	91		12.111	12.121	(1.251)	44291	0.61521	0.917 (M)	
65 4-Ethyltoluene	105		12.311	12.321	(1.271)	95846	1.20345	1.79 (M)	
66 1,3,5-Trimethylbenzene	105		12.413	12.426	(1.282)	74930	1.07690	1.60	
67 1,2,4-Trimethylbenzene	105		13.010	13.020	(1.343)	382122	4.46993	6.66	
68 1,3-Dichlorobenzene	146		Compound Not Detected.						
69 Sec- Butylbenzene	105		Compound Not Detected.						
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.449	13.459	(1.389)	111225	9.63338	9.63	
71 Benzyl Chloride	91		Compound Not Detected.						
72 1,4-Dichlorobenzene	146		Compound Not Detected.						
73 1,2-Dichlorobenzene	146		Compound Not Detected.						
74 N-Butylbenzene	91		Compound Not Detected.						
75 1,2,4-Trichlorobenzene	180		Compound Not Detected.						
76 Naphthalene	128		16.856	16.860	(1.741)	92461	2.44097	3.64	
77 Hexachlorobutadiene	225		Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20630.d
Report Date: 26-Jul-2013 08:35

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\072513.b\20630.d
Report Date: 26-Jul-2013 08:35

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 20630.d
Lab Smp Id: 10236207013
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
Misc Info: 17870

Calibration Date: 25-JUL-2013
Calibration Time: 13:08

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	719129	24.04
55 Chlorobenzene - d	221404	132842	309966	286038	29.19

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	-0.05
55 Chlorobenzene - d	9.69	9.36	10.02	9.68	-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\072513.b\20630.D

Date : 26-JUL-2013 03:33

Client ID:

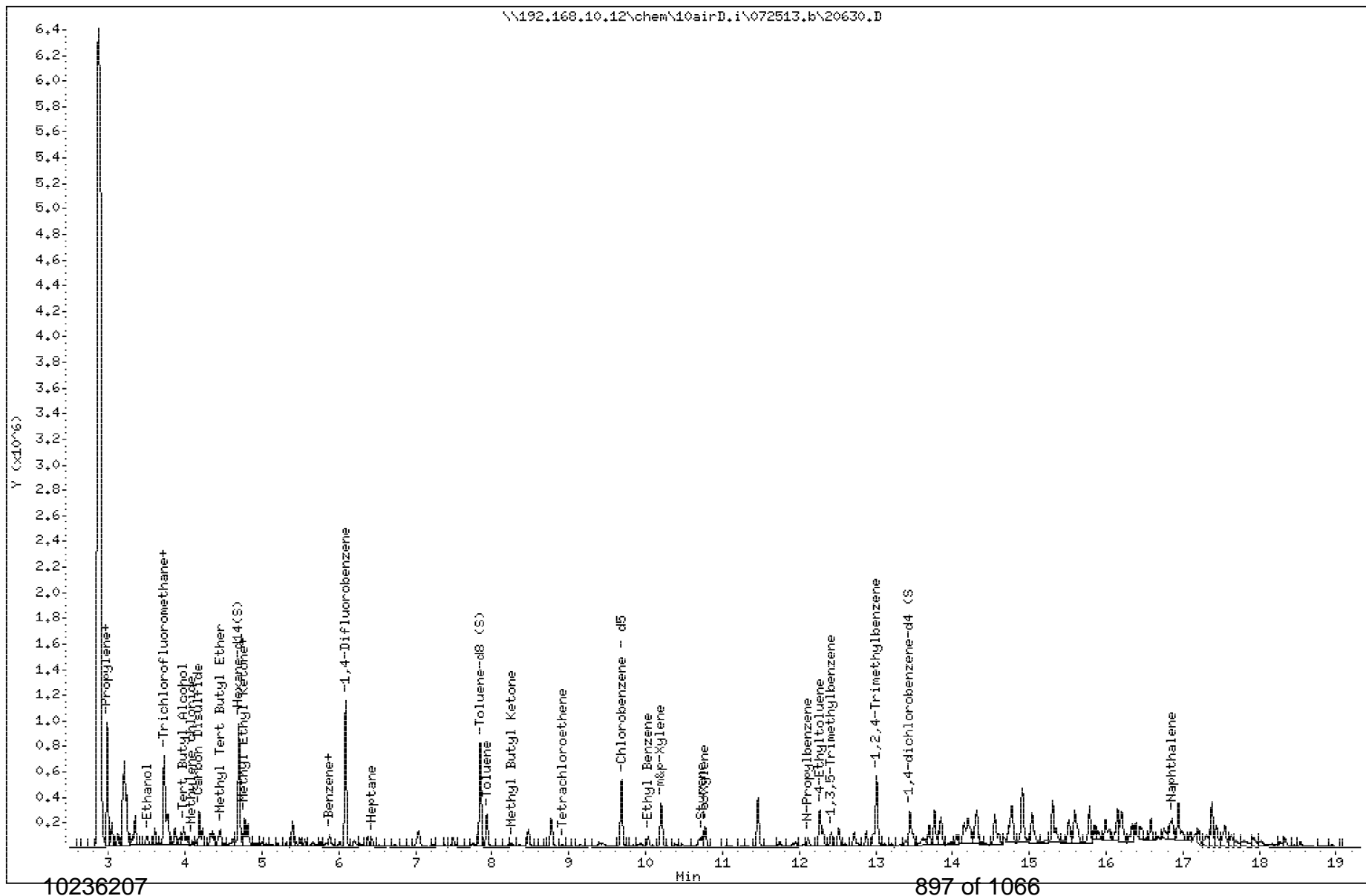
Instrument: 10airD.i

Sample Info:

Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20630.D

Date : 26-JUL-2013 03:33

Client ID:

Instrument: 10airD.i

Sample Info:

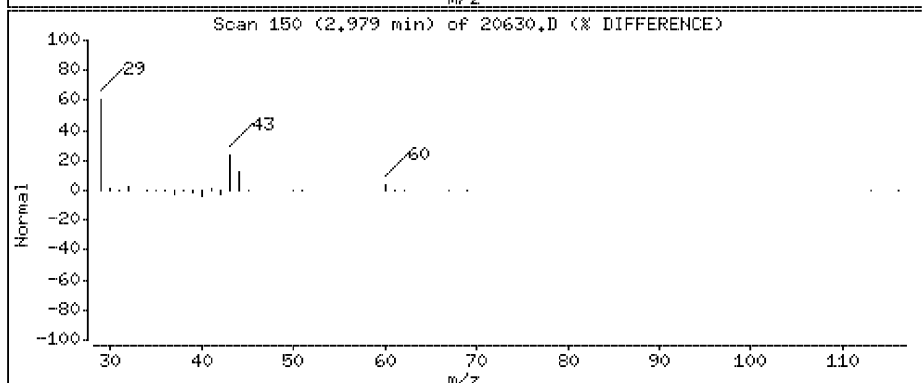
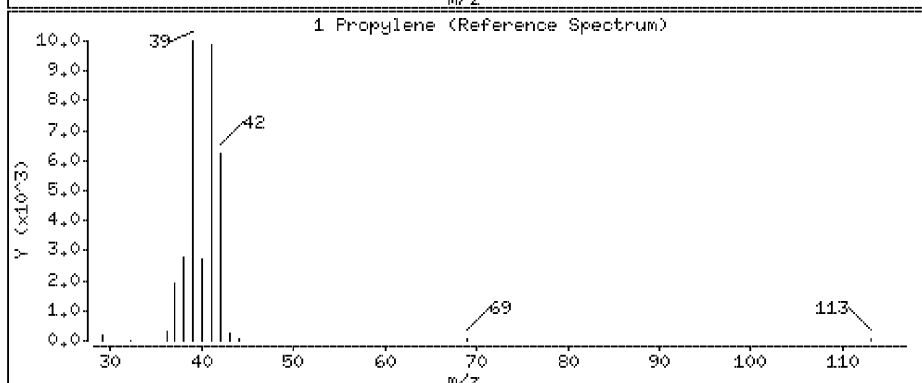
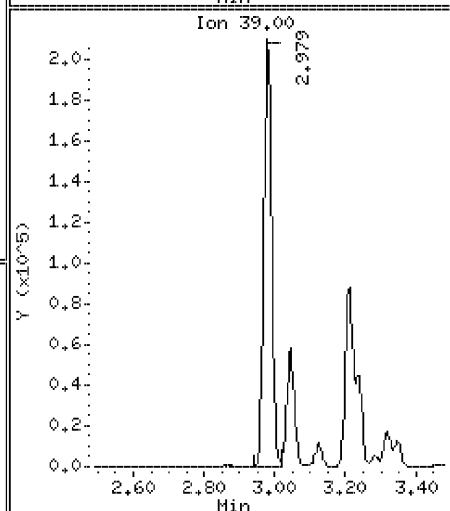
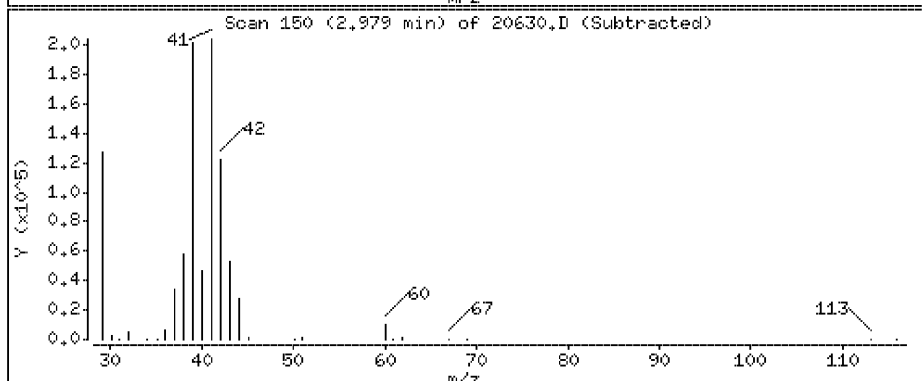
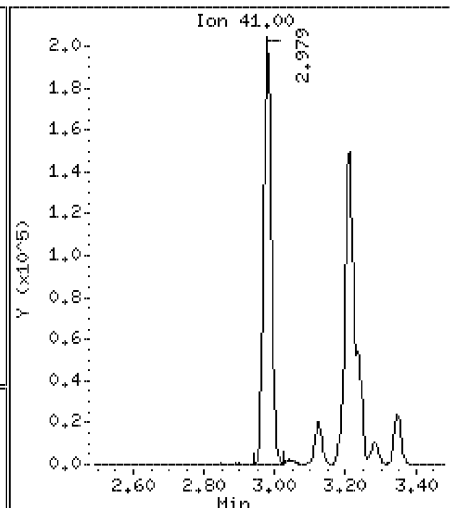
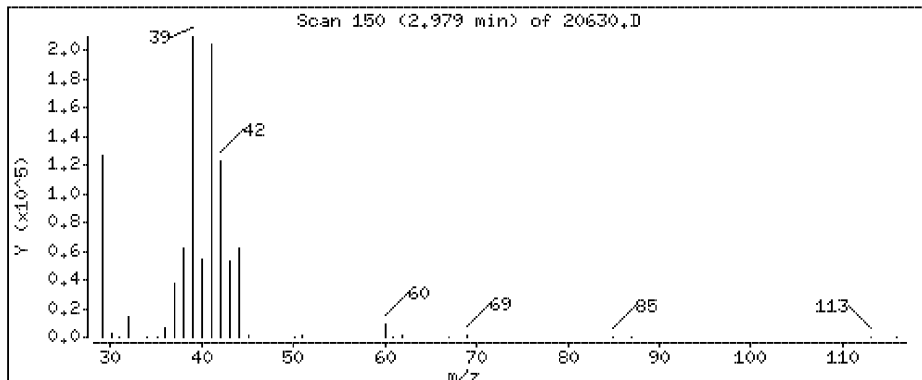
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

1 Propylene

Concentration: 49,5 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20630.D

Date : 26-JUL-2013 03:33

Client ID:

Instrument: 10airD.i

Sample Info:

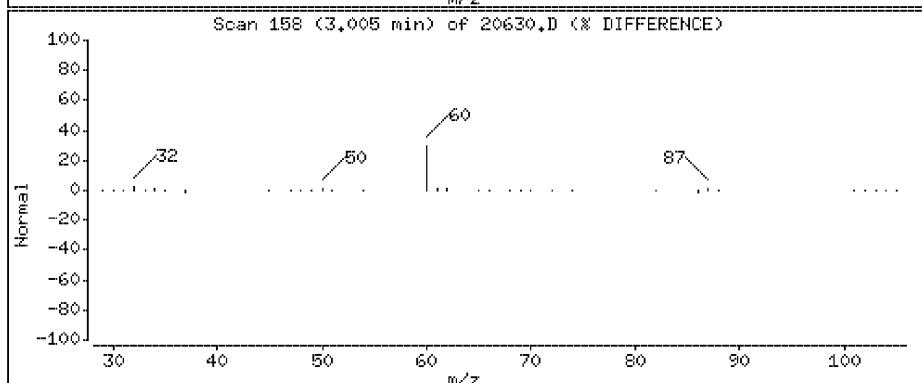
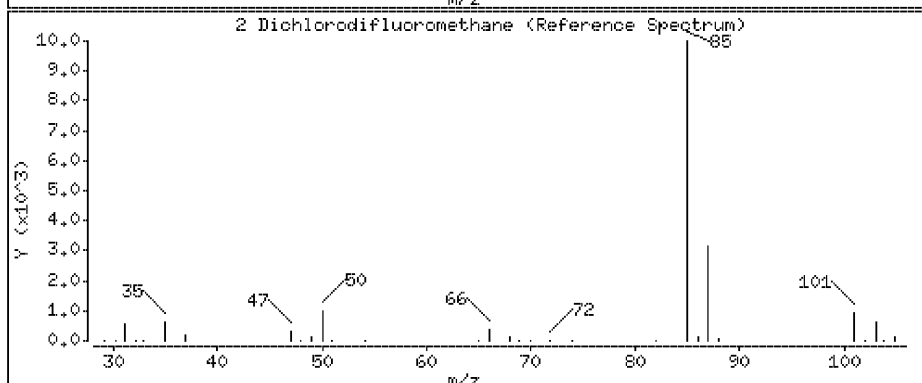
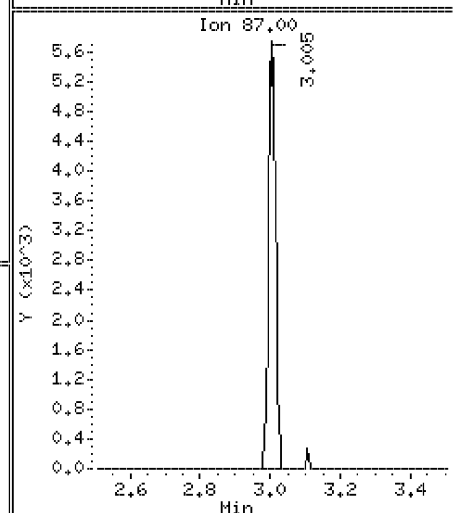
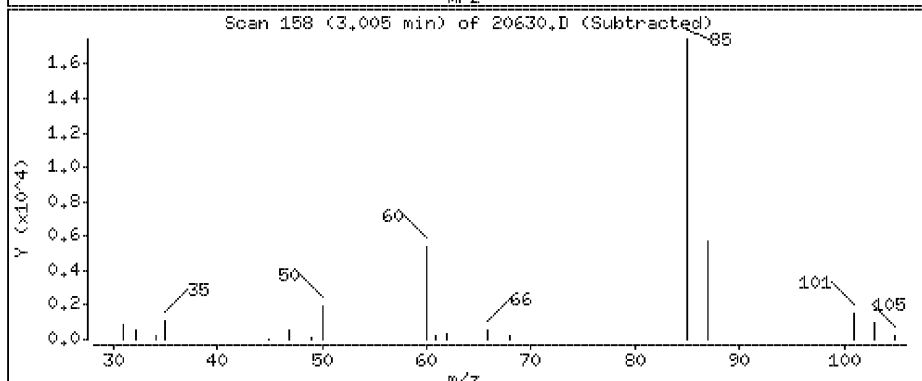
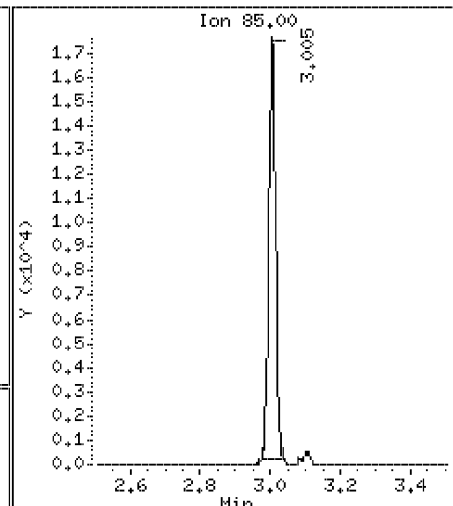
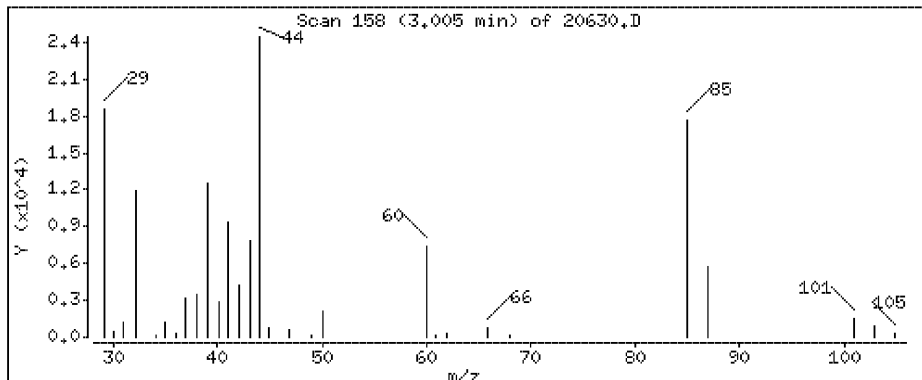
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

2 Dichlorodifluoromethane

Concentration: 0.402 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20630.D

Date : 26-JUL-2013 03:33

Client ID:

Instrument: 10airD.i

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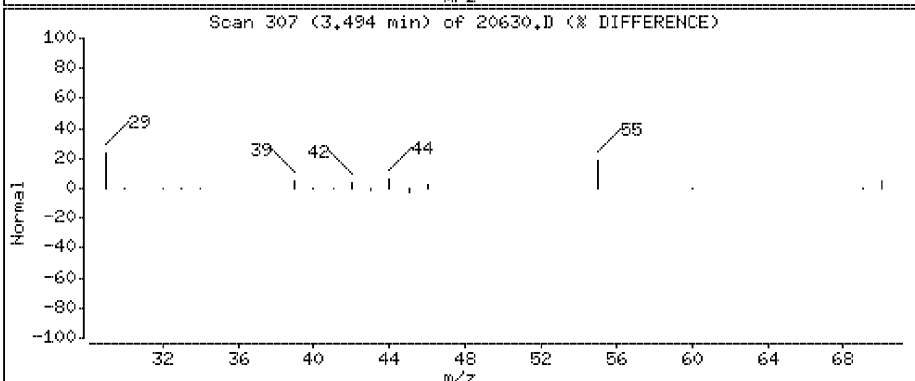
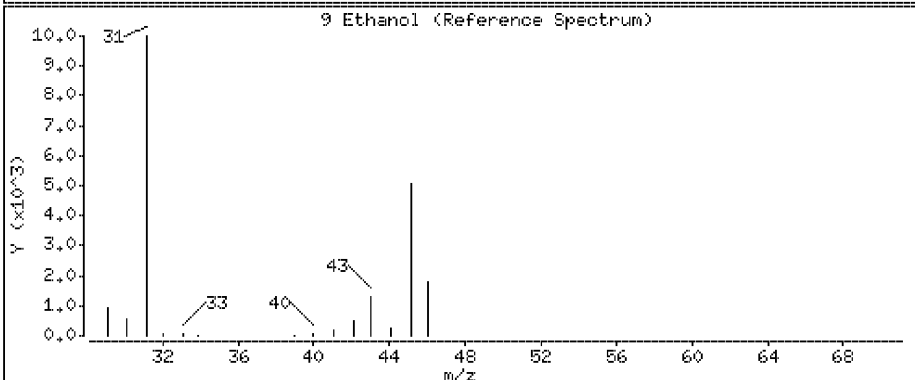
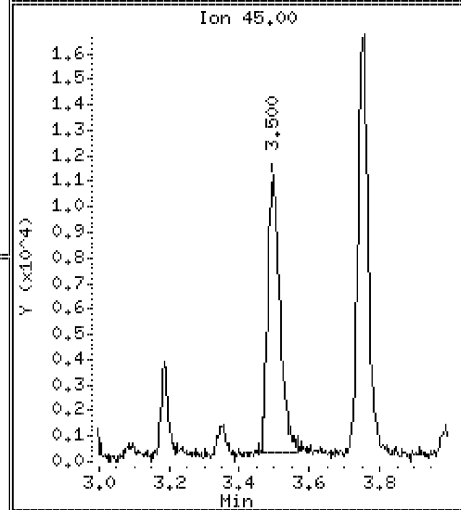
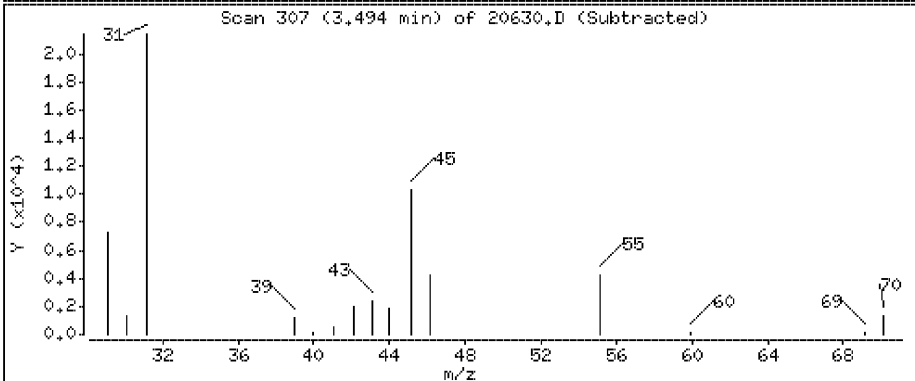
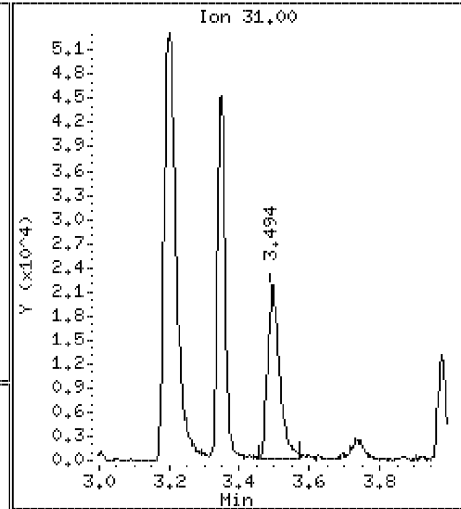
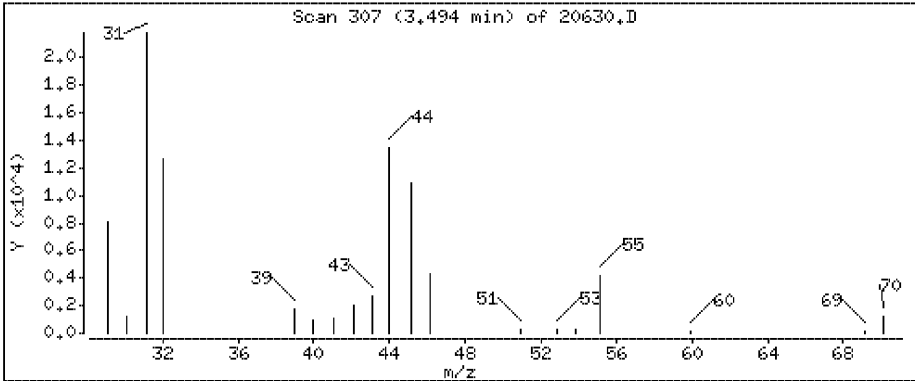
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

9 Ethanol

Concentration: 7.20 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20630.D

Date : 26-JUL-2013 03:33

Client ID:

Instrument: 10airD.i

Sample Info:

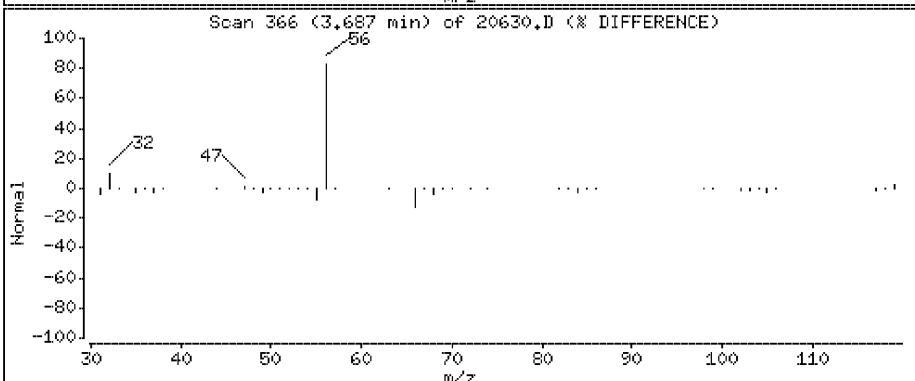
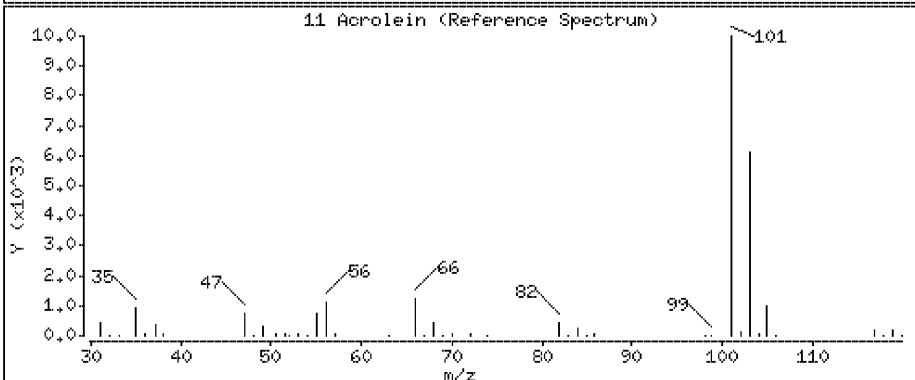
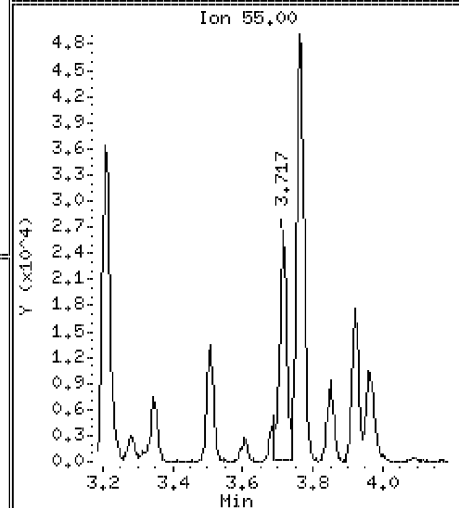
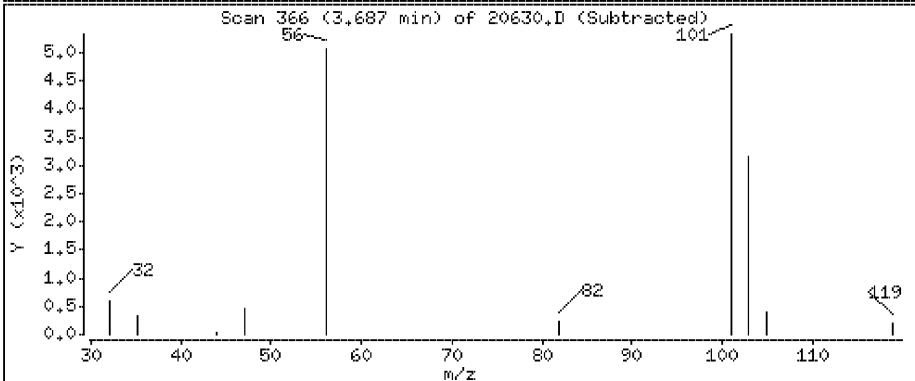
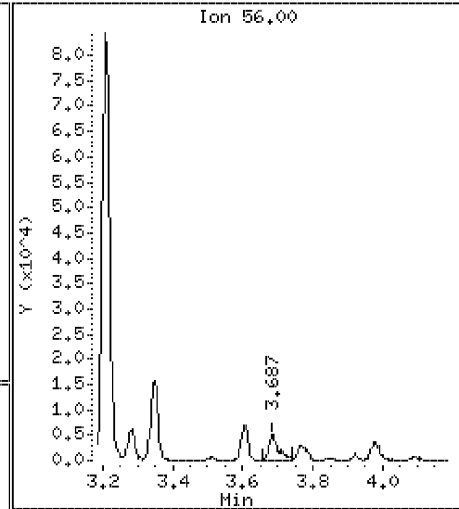
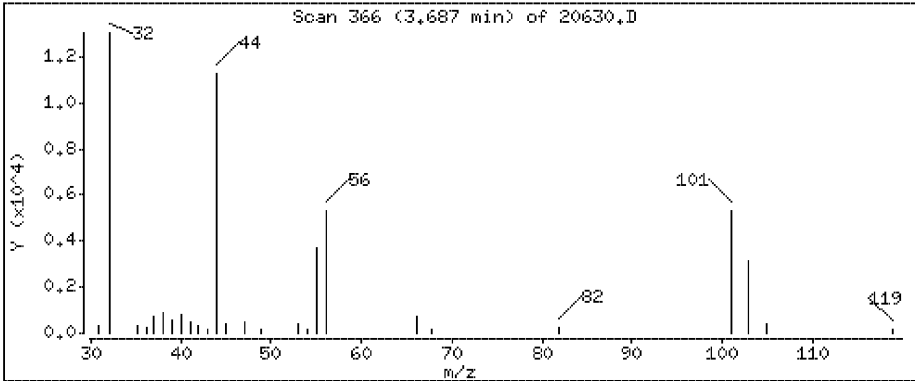
Operator: DR1

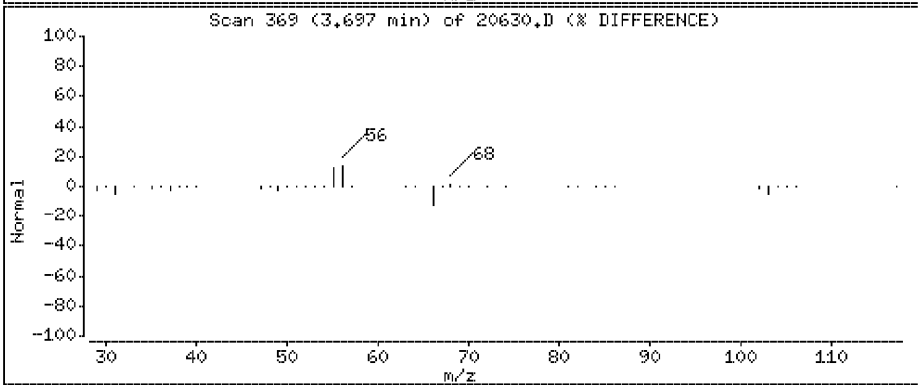
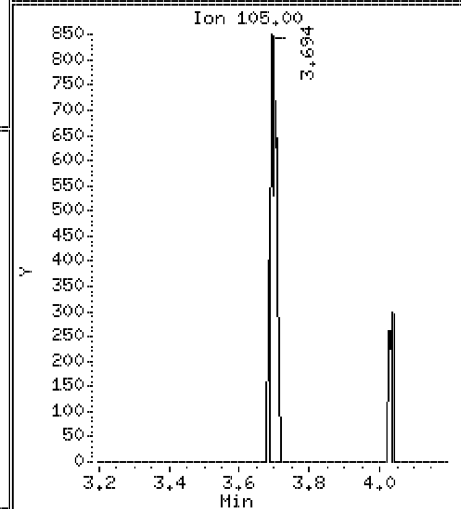
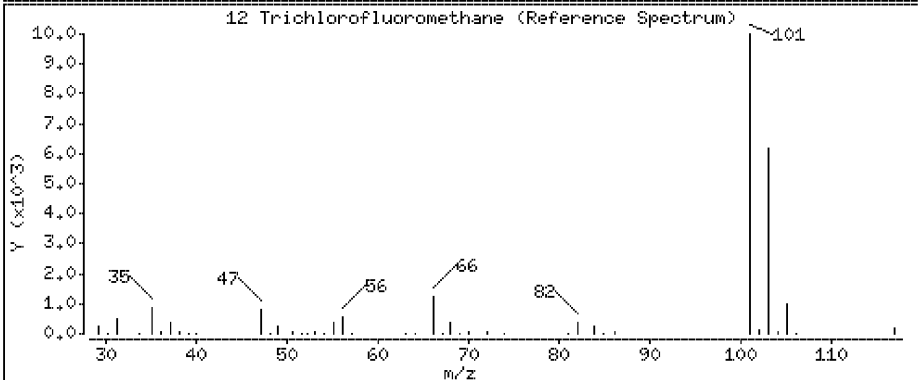
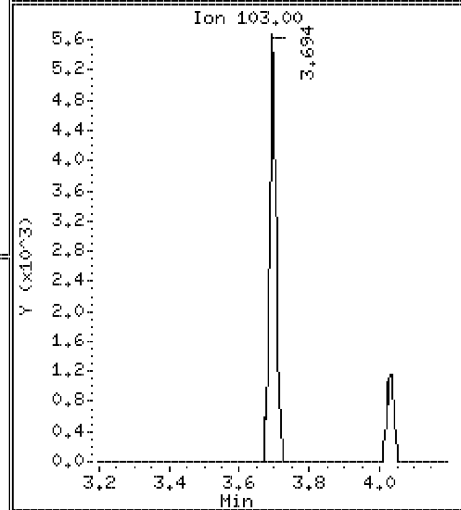
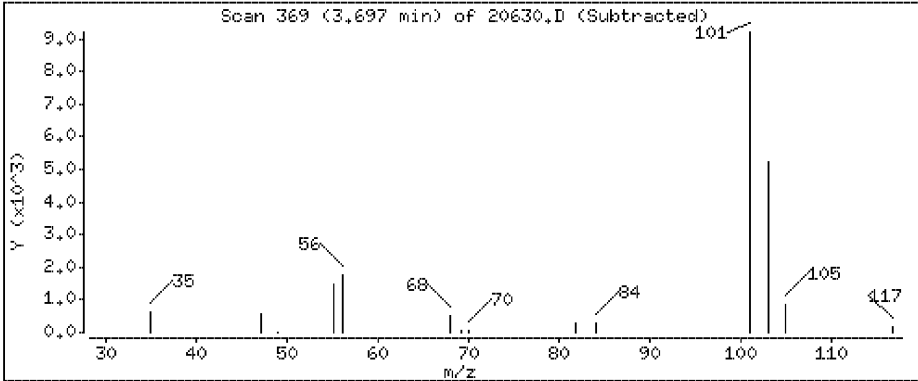
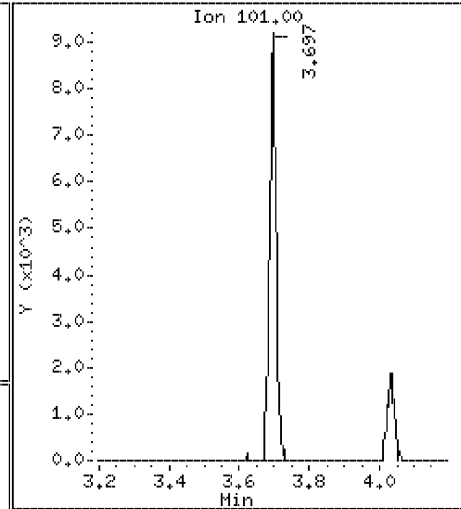
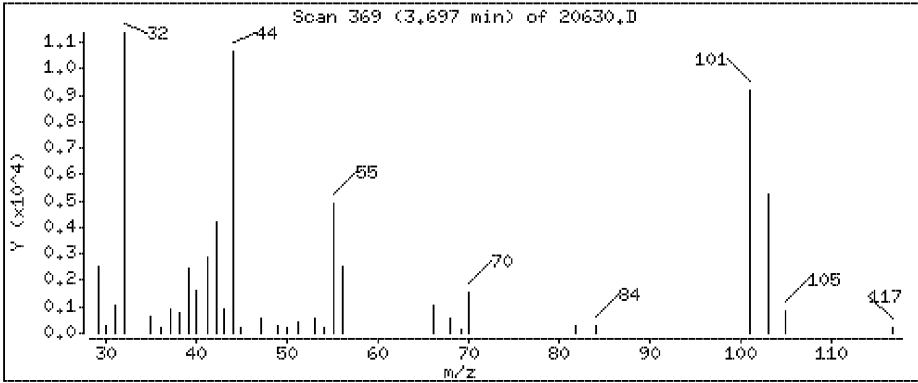
Column phase: J&W DB-5

Column diameter: 0.32

11 Acrolein

Concentration: 2.33 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20630.D

Date : 26-JUL-2013 03:33

Client ID:

Instrument: 10airD.i

Sample Info:

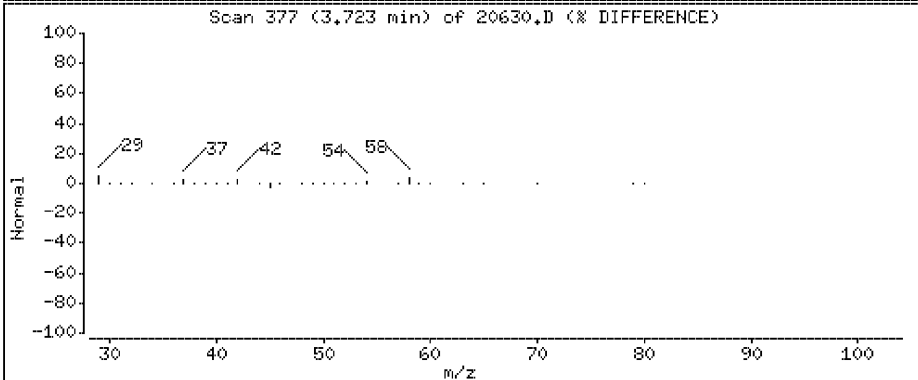
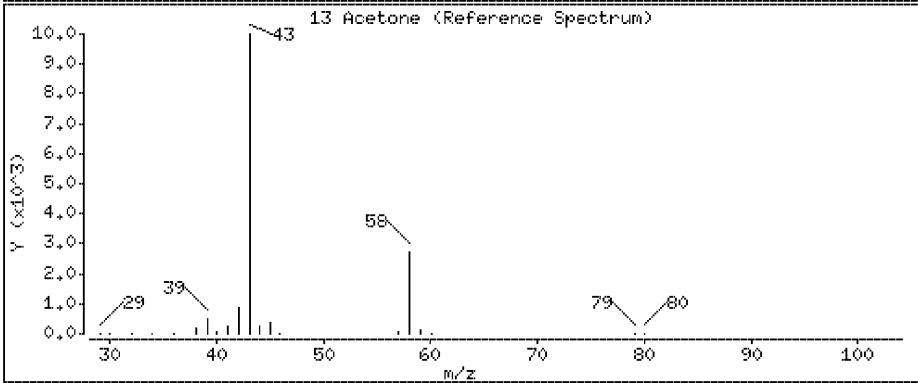
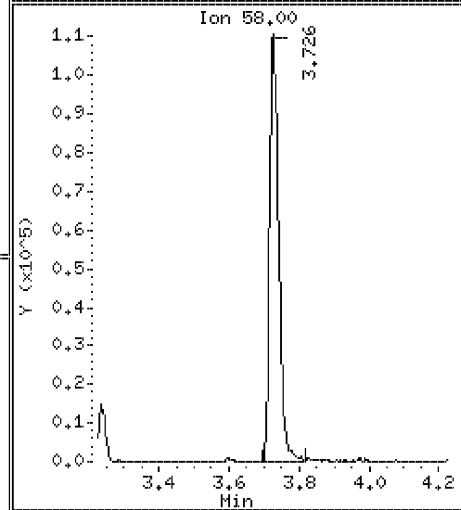
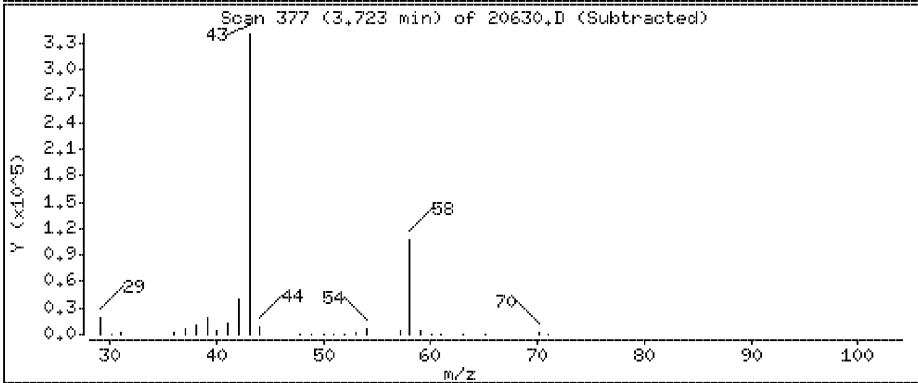
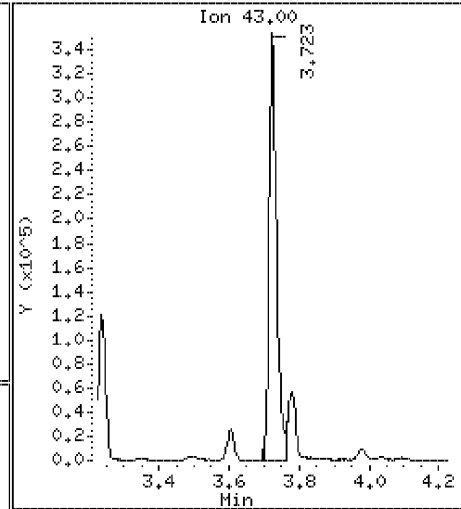
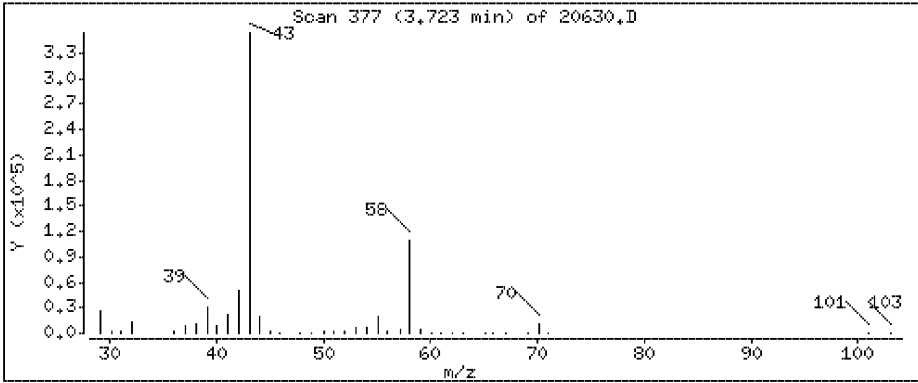
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

13 Acetone

Concentration: 16,5 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20630.D

Date : 26-JUL-2013 03:33

Client ID:

Instrument: 10airD.i

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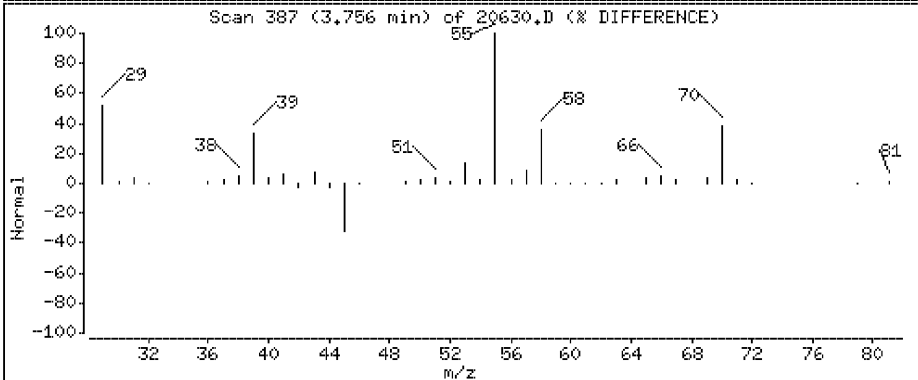
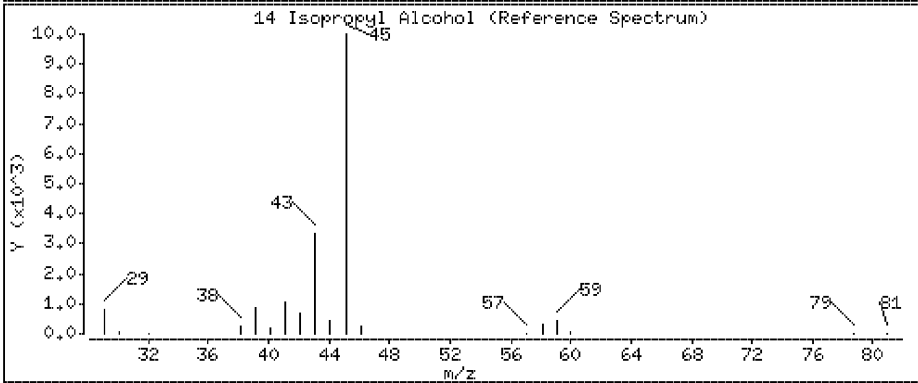
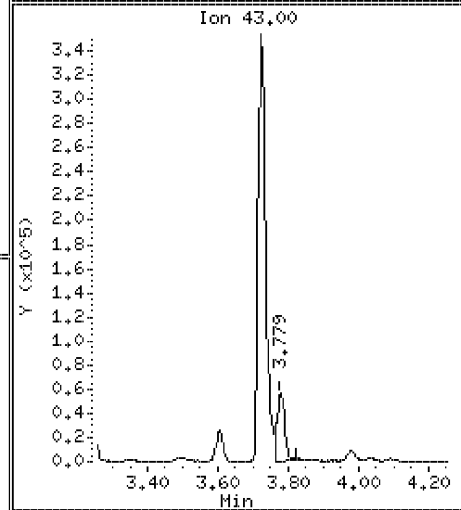
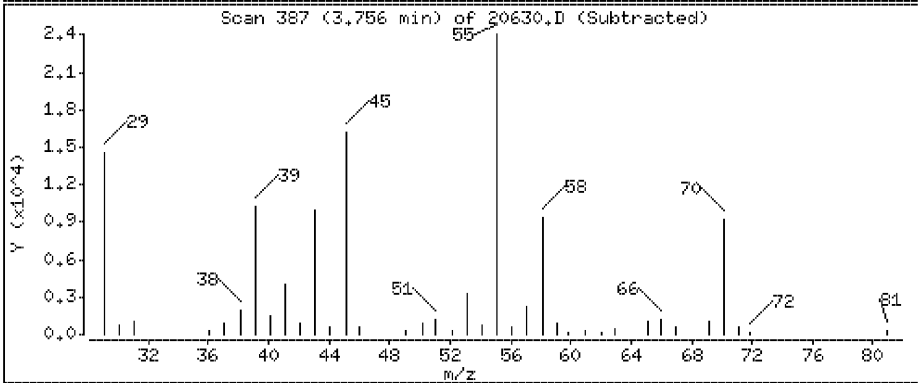
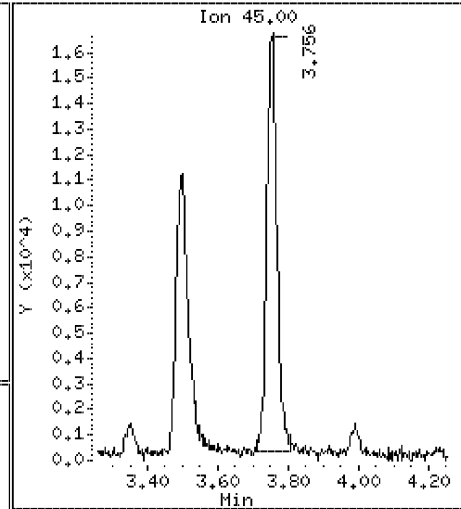
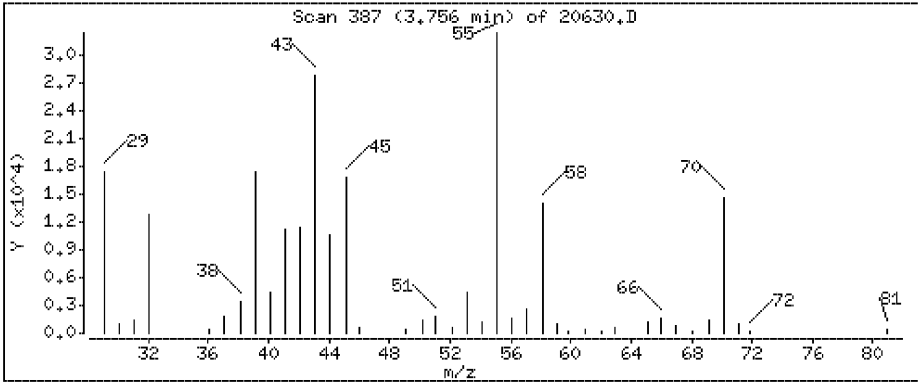
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

14 Isopropyl Alcohol

Concentration: 1.59 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20630.D

Date : 26-JUL-2013 03:33

Client ID:

Instrument: 10airD.i

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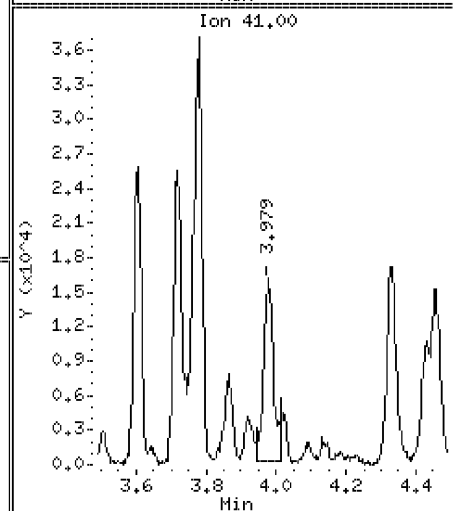
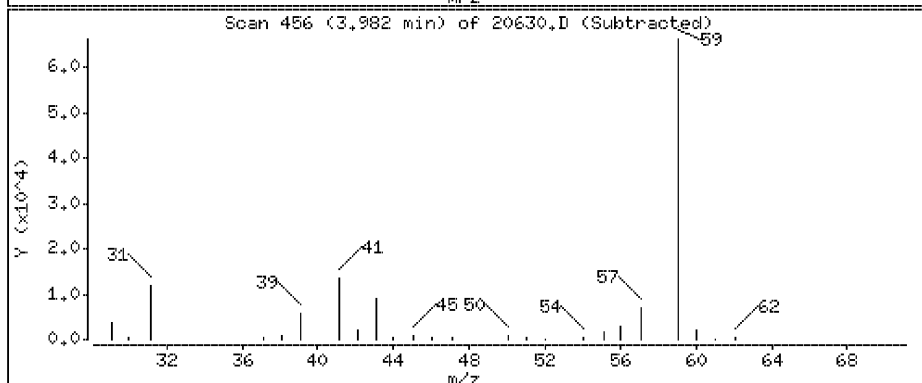
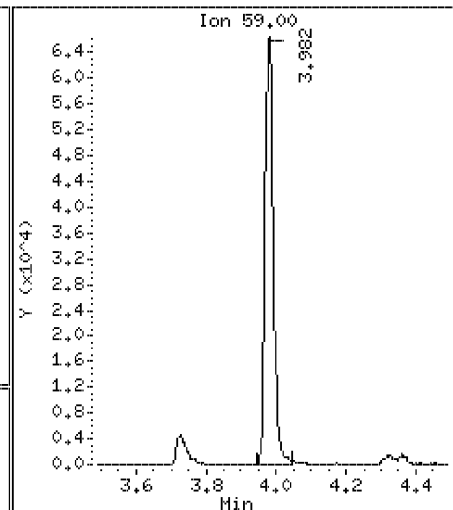
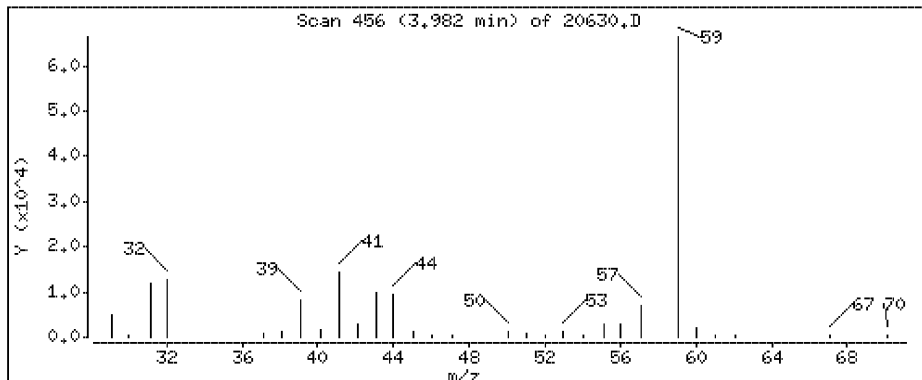
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

17 Tert Butyl Alcohol

Concentration: 3.23 ppbv



Data File: \\192.168.10.12\chem\10airD,i\072513,b\20630.D

Date : 26-JUL-2013 03:33

Client ID:

Instrument: 10airD.i

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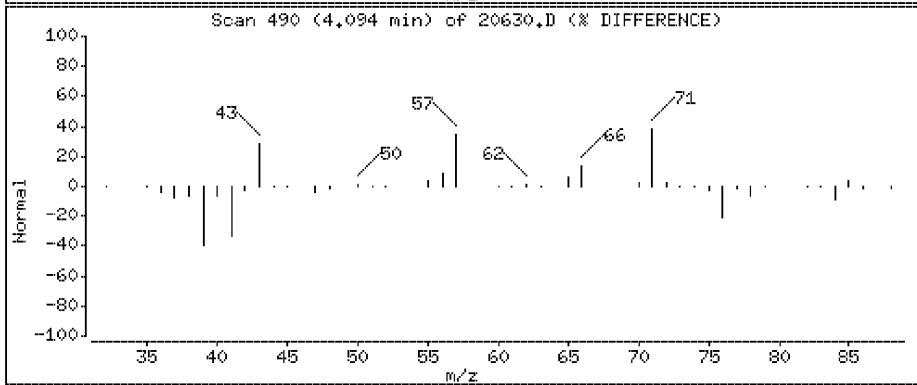
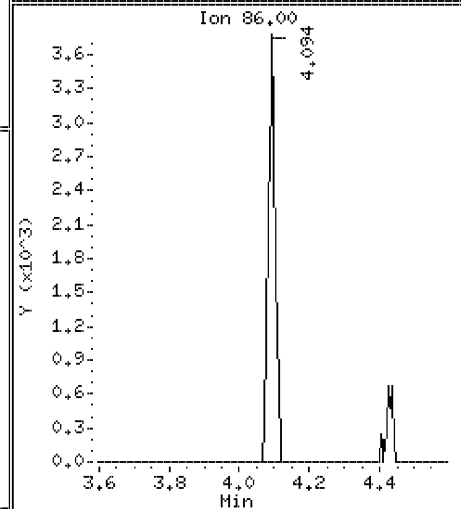
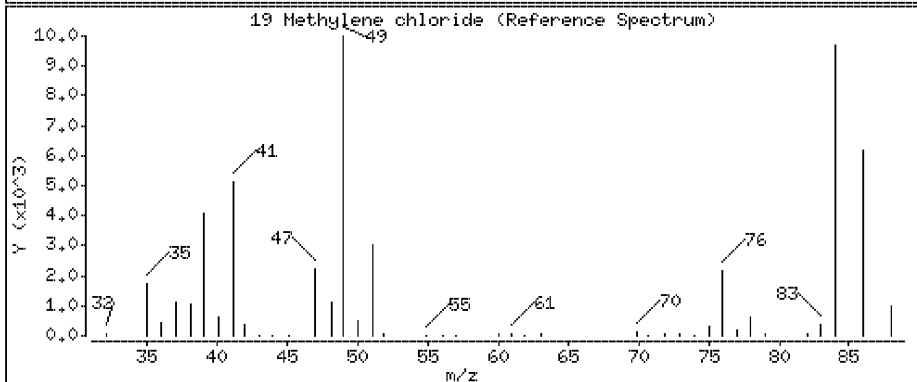
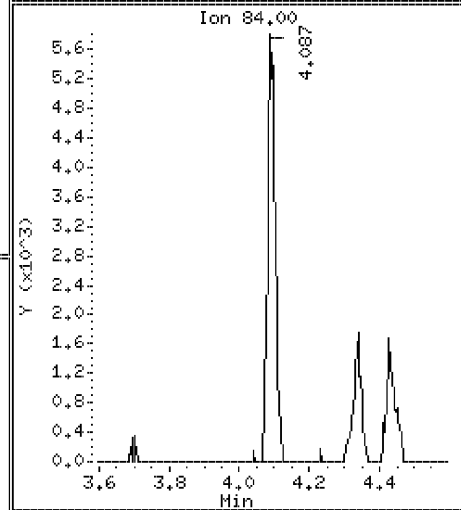
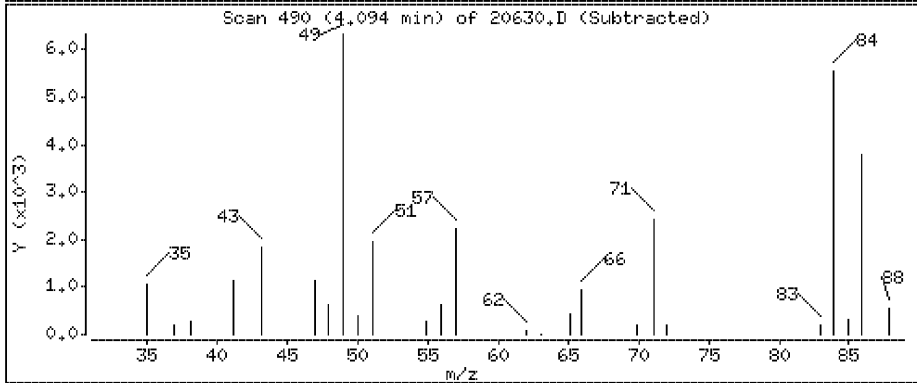
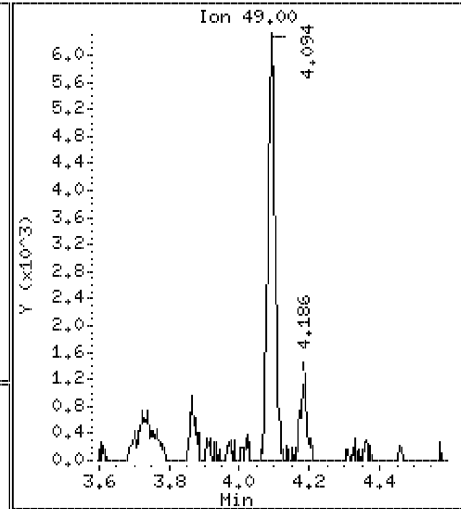
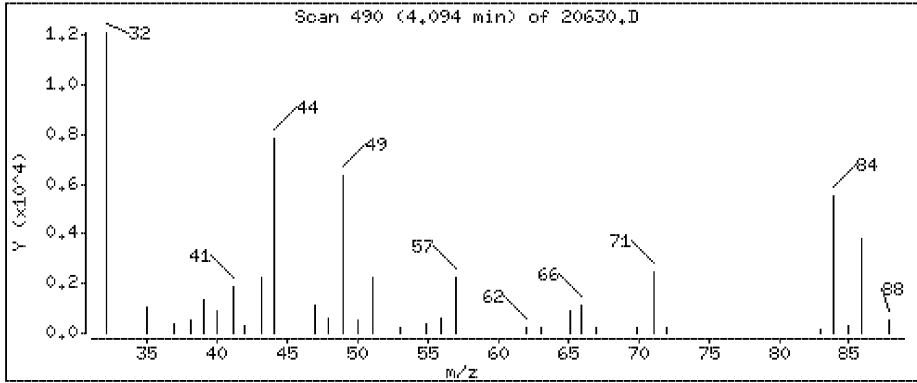
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

19 Methylene chloride

Concentration: 0.499 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20630.D

Date : 26-JUL-2013 03:33

Client ID:

Instrument: 10airD.i

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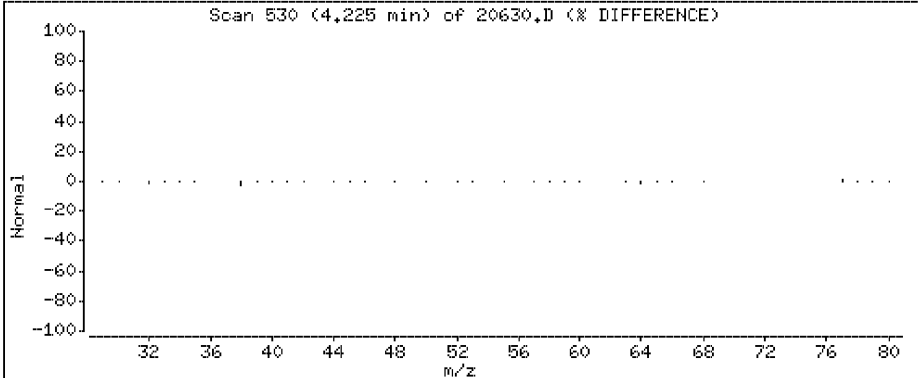
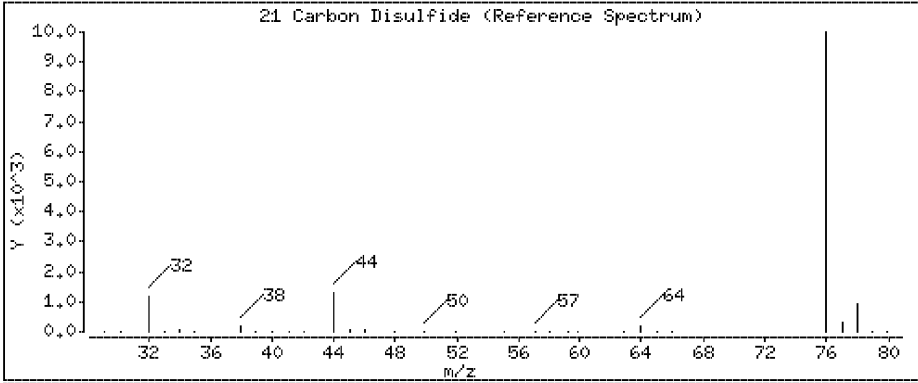
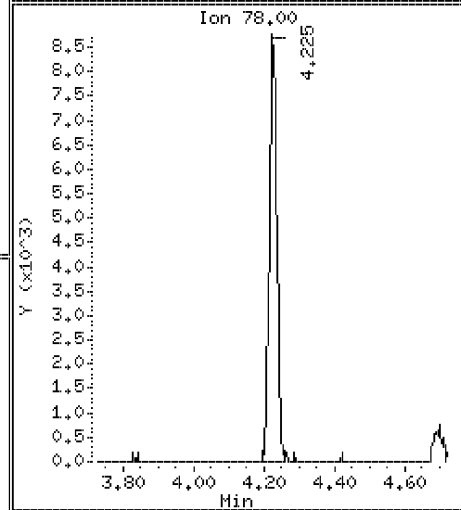
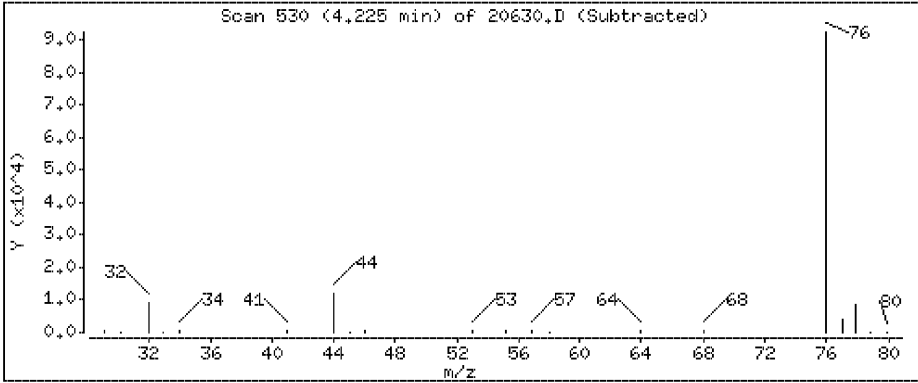
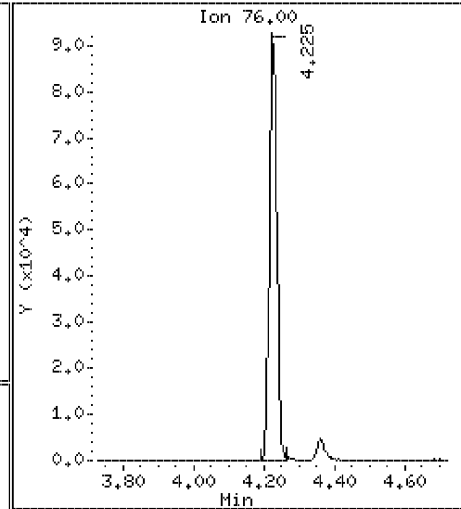
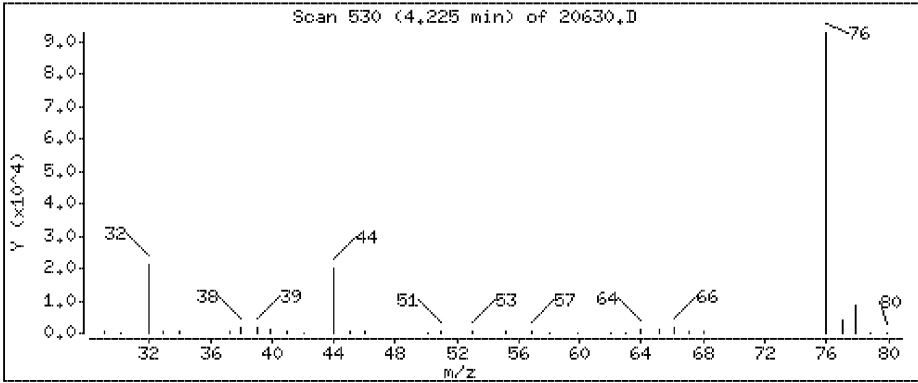
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

21 Carbon Disulfide

Concentration: 2.55 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20630.D

Date : 26-JUL-2013 03:33

Client ID:

Instrument: 10airD.i

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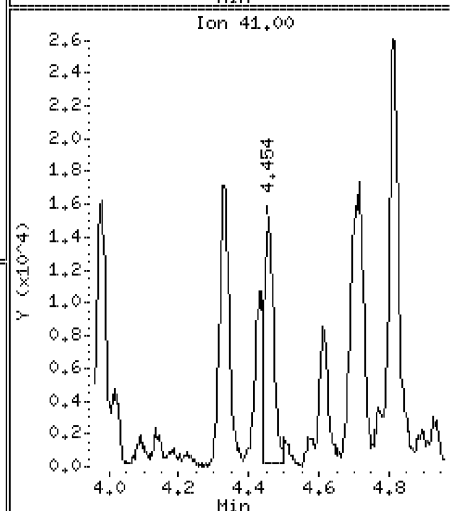
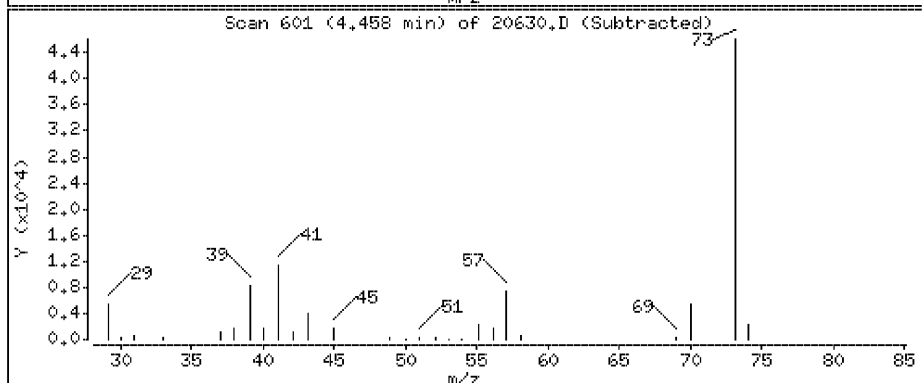
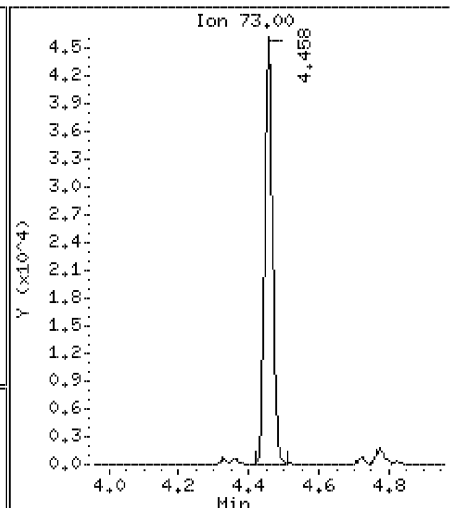
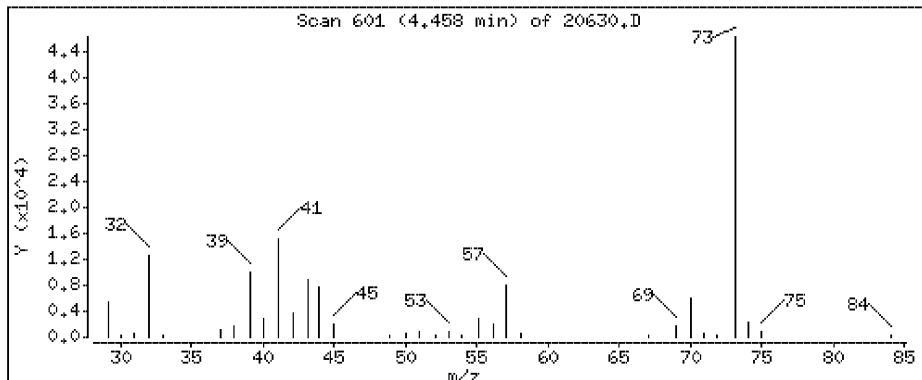
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

23 Methyl Tert Butyl Ether

Concentration: 1.61 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20630.D

Date : 26-JUL-2013 03:33

Client ID:

Instrument: 10airD.i

Sample Info:

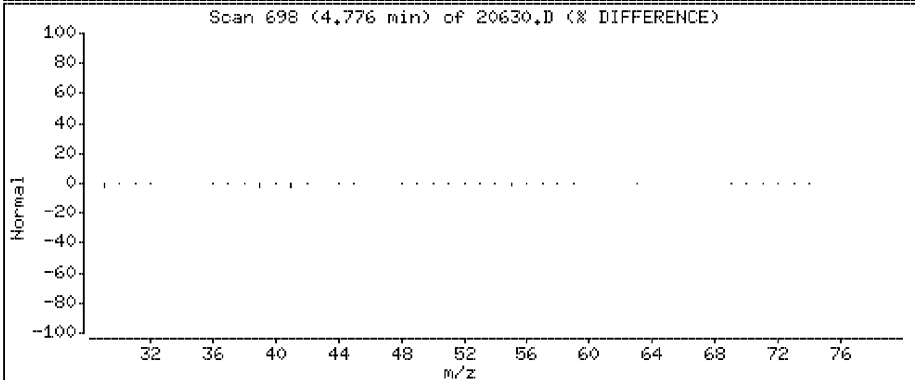
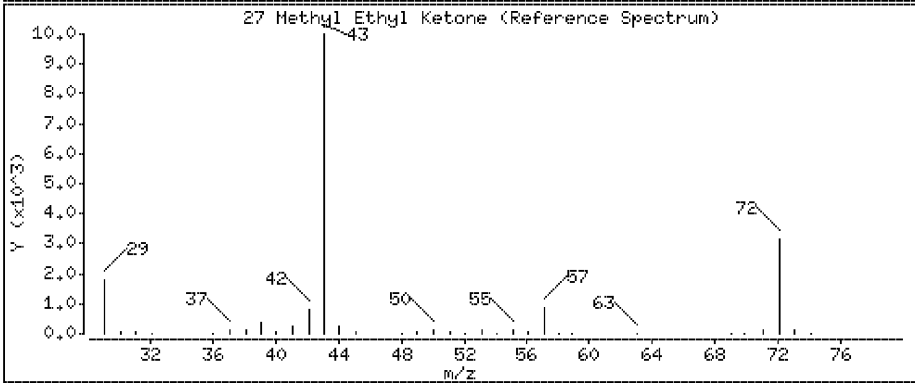
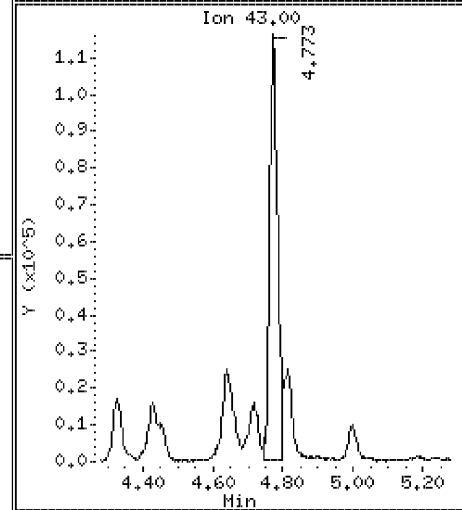
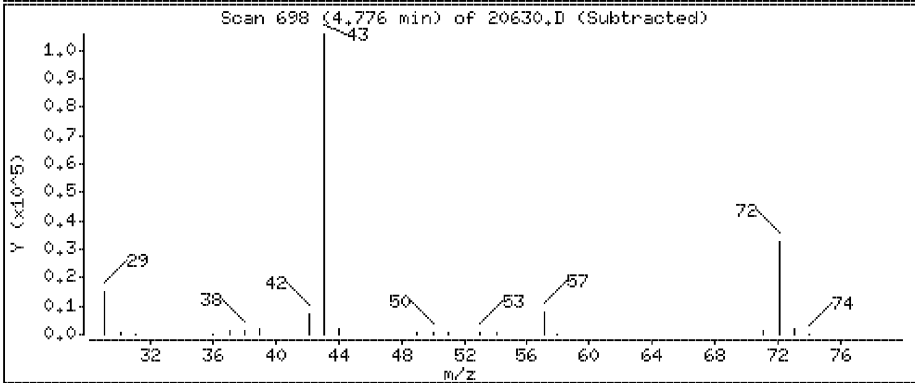
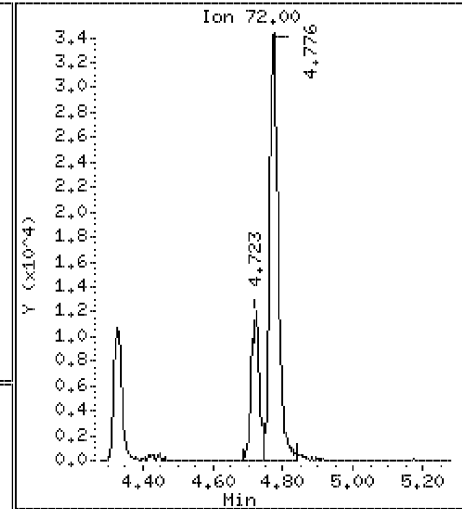
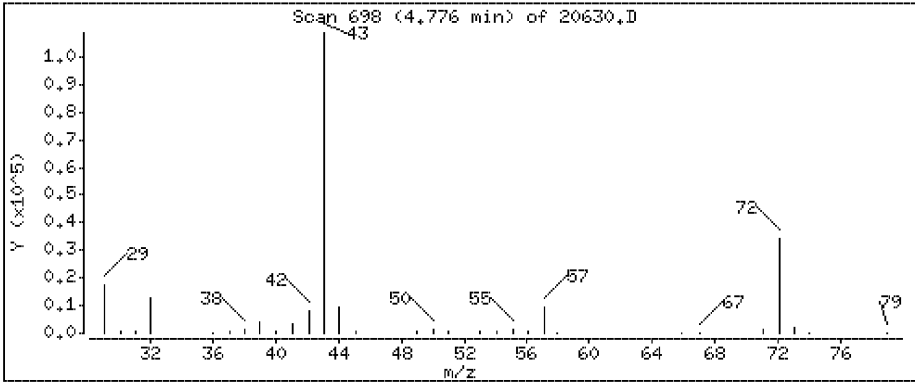
Operator: DR1

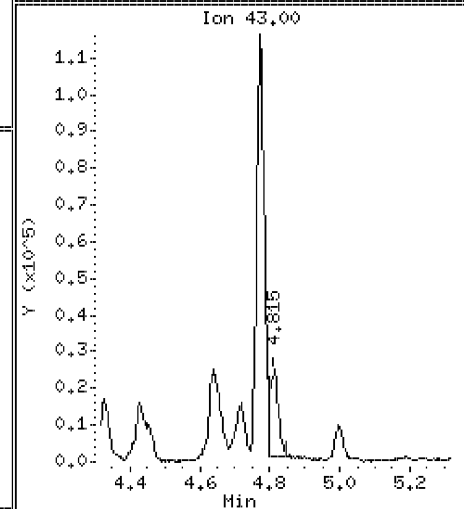
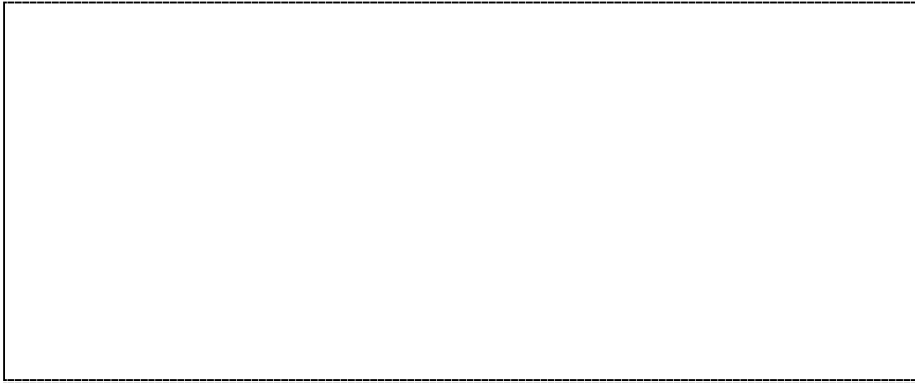
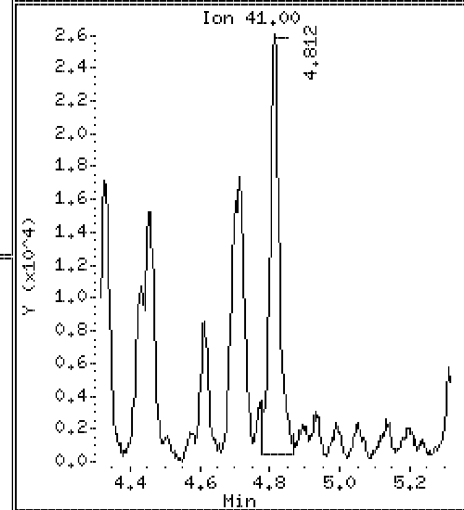
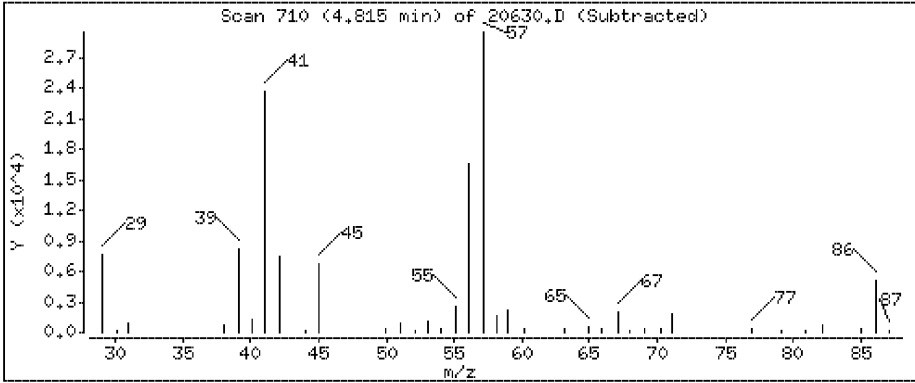
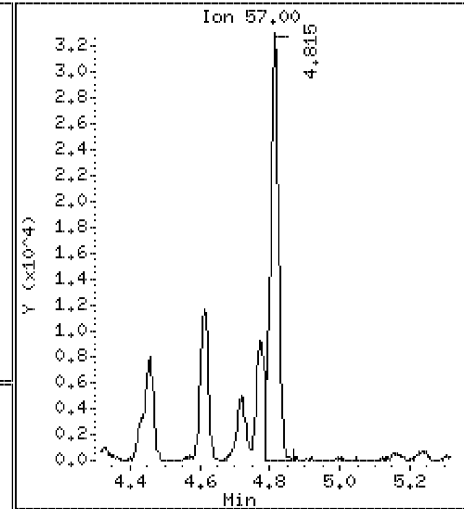
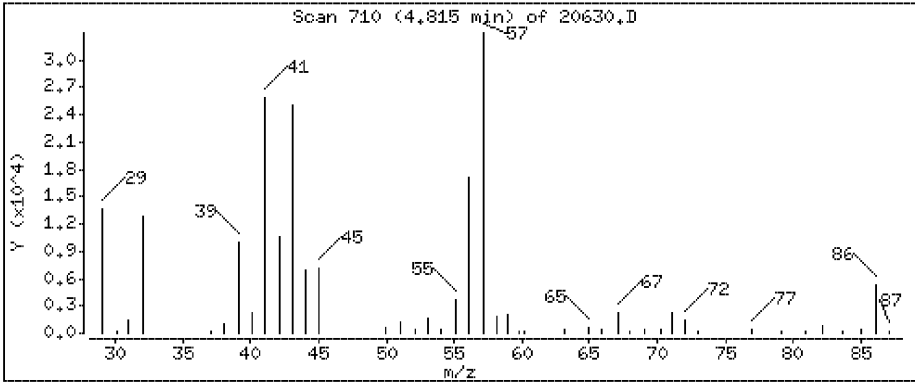
Column phase: J&W DB-5

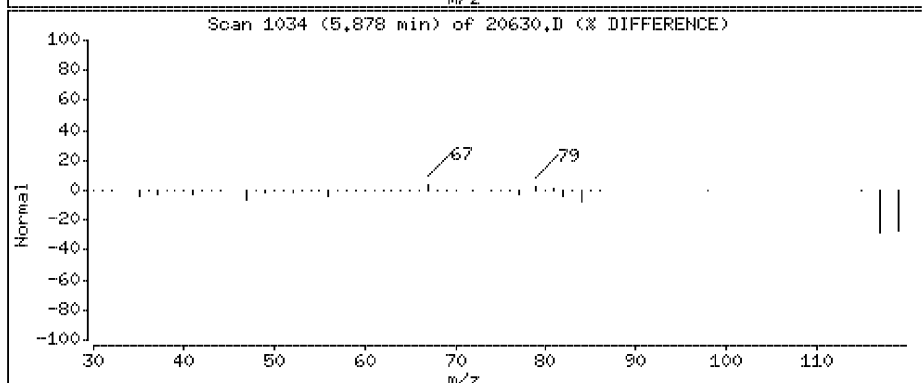
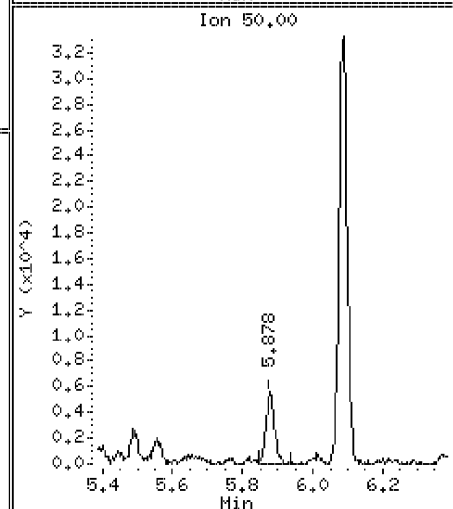
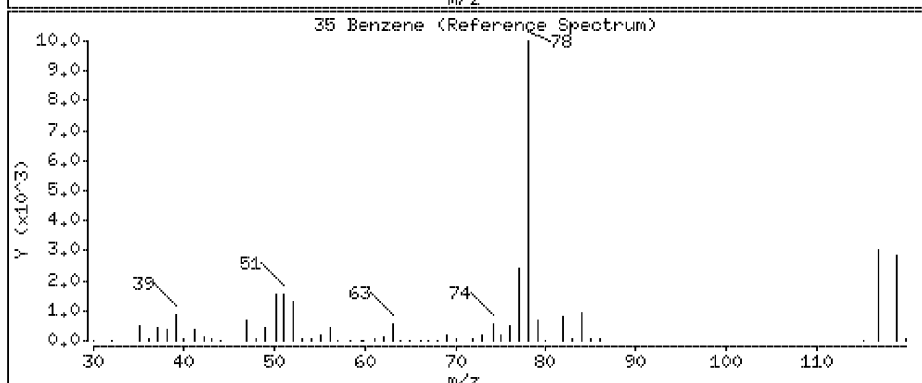
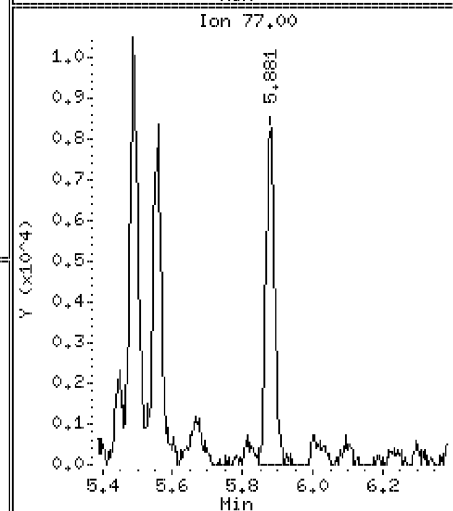
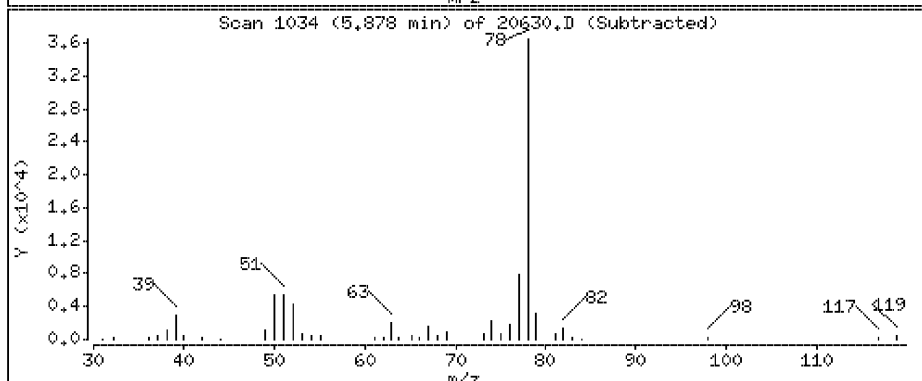
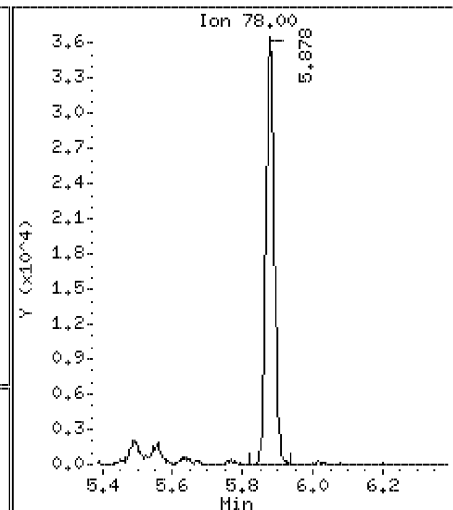
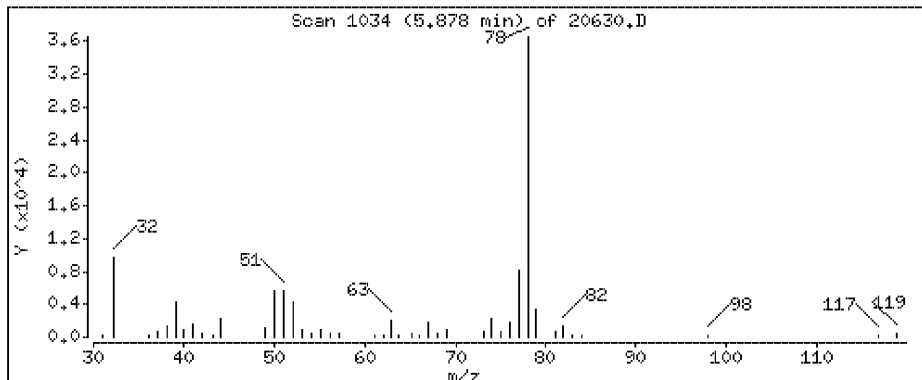
Column diameter: 0.32

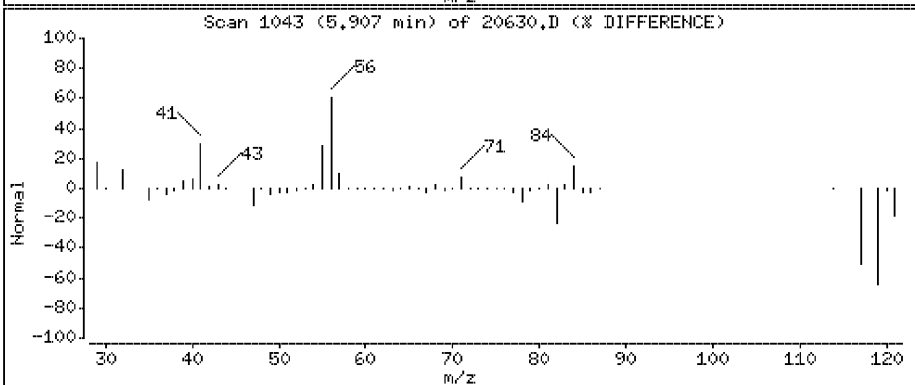
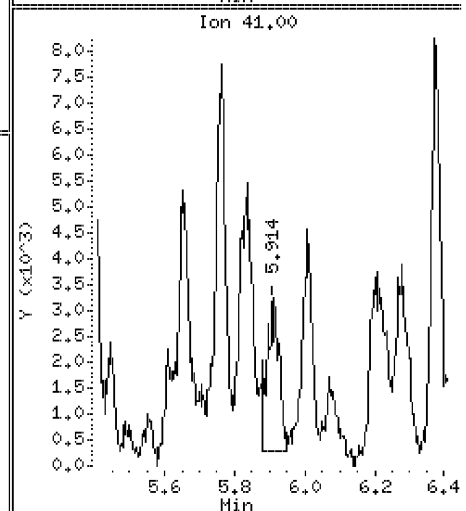
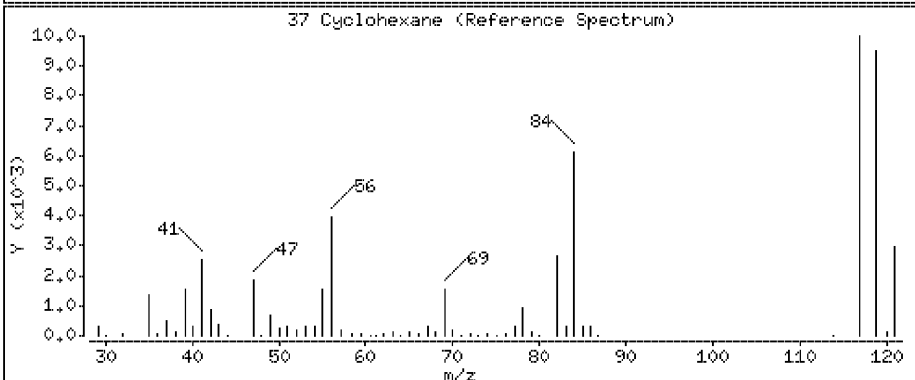
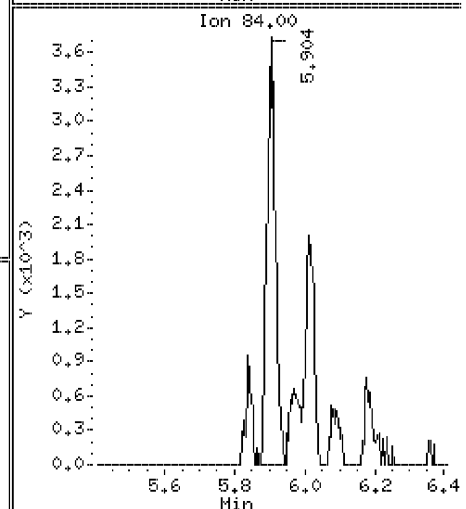
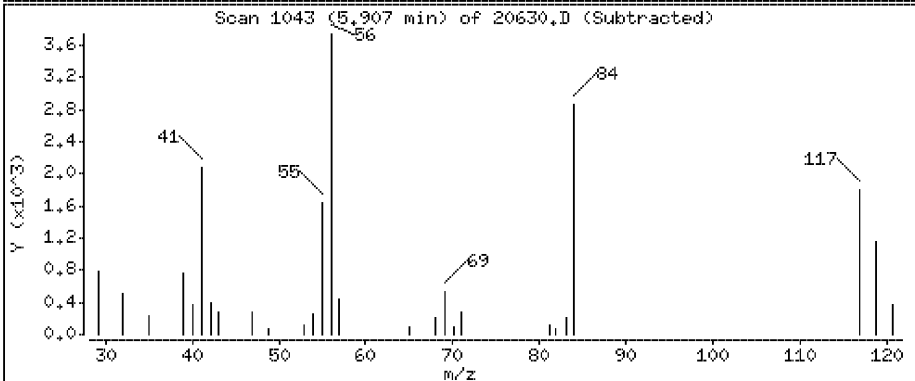
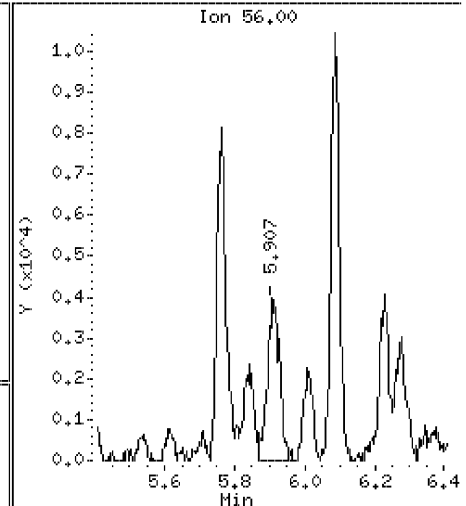
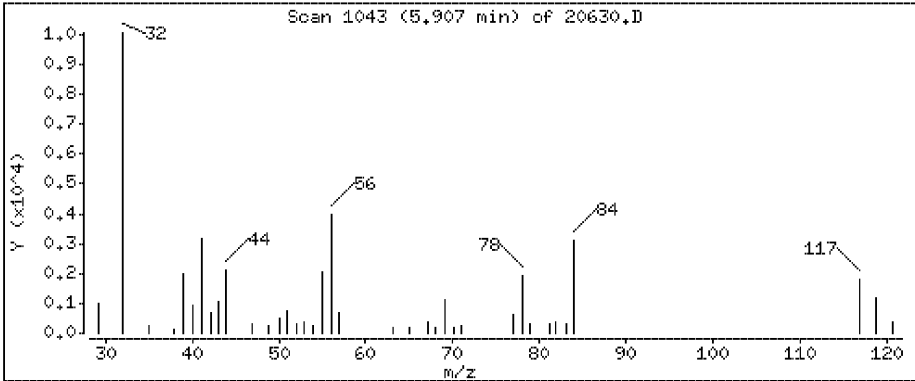
27 Methyl Ethyl Ketone

Concentration: 8.07 ppbv



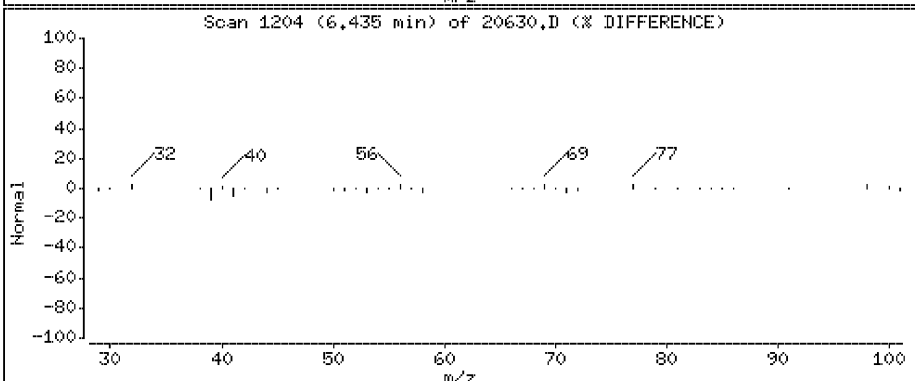
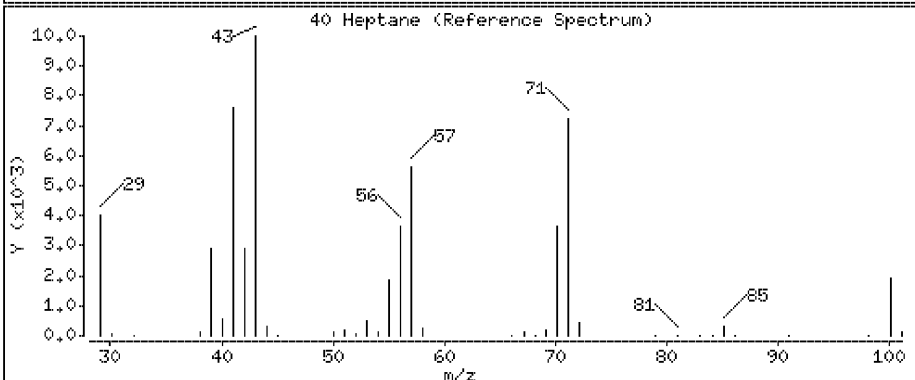
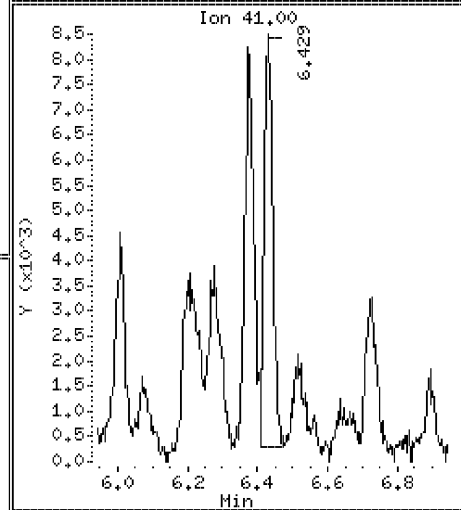
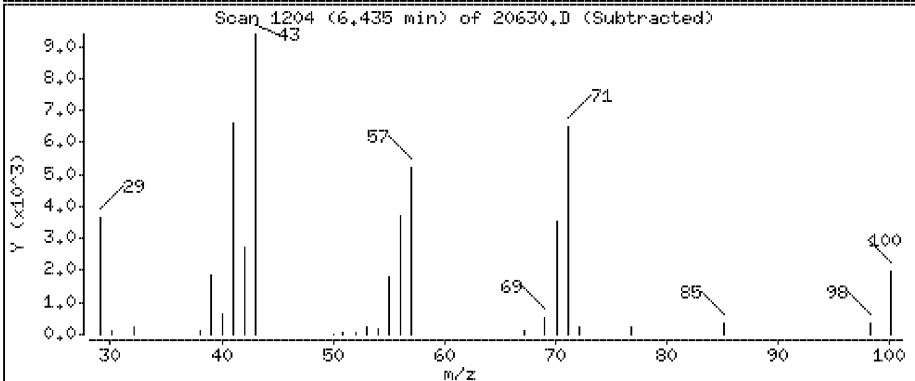
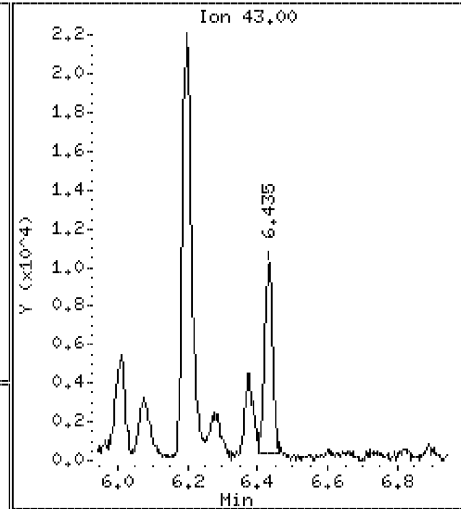
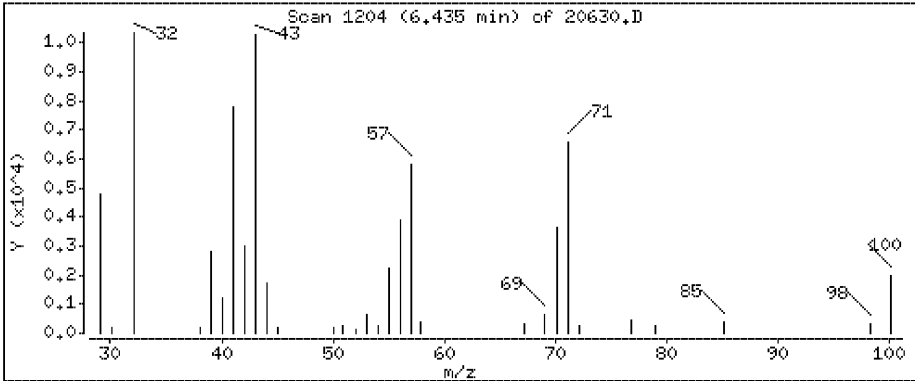






40 Heptane

Concentration: 1.56 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20630.D

Date : 26-JUL-2013 03:33

Client ID:

Instrument: 10airD.i

Sample Info:

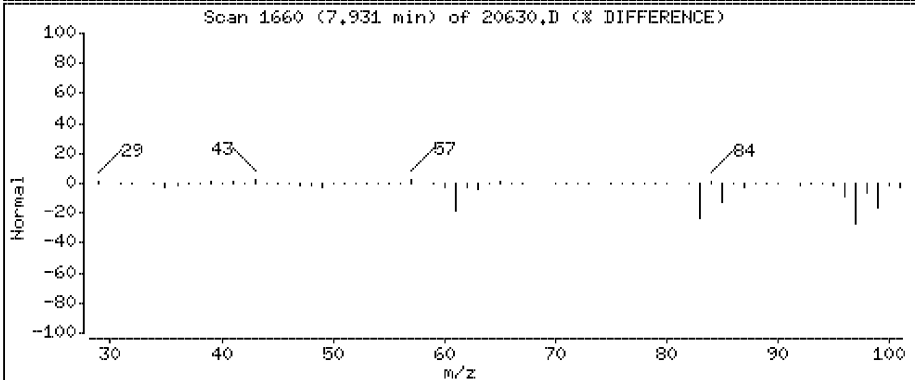
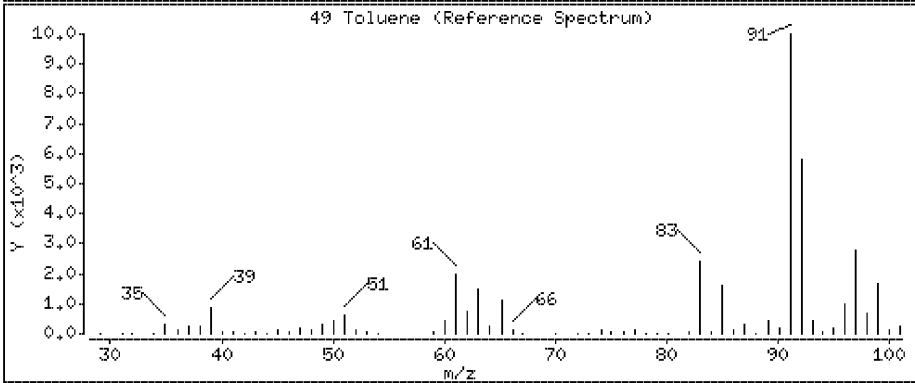
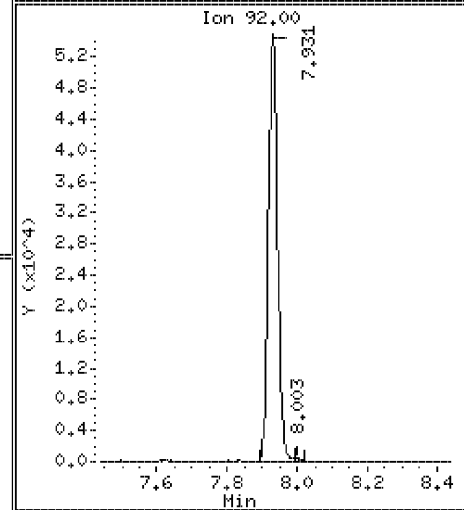
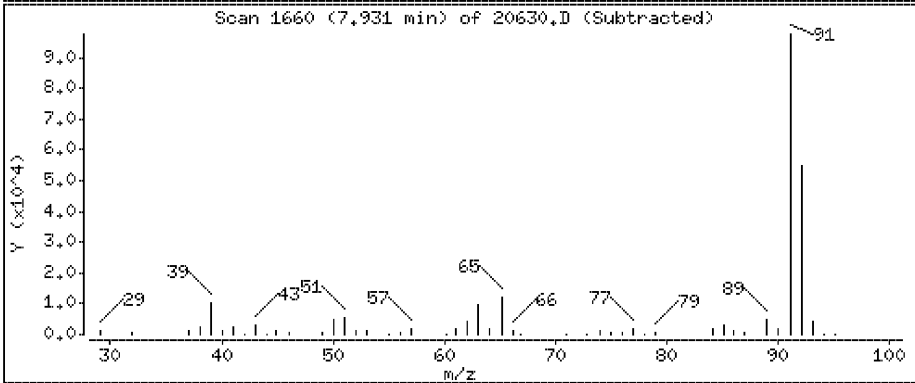
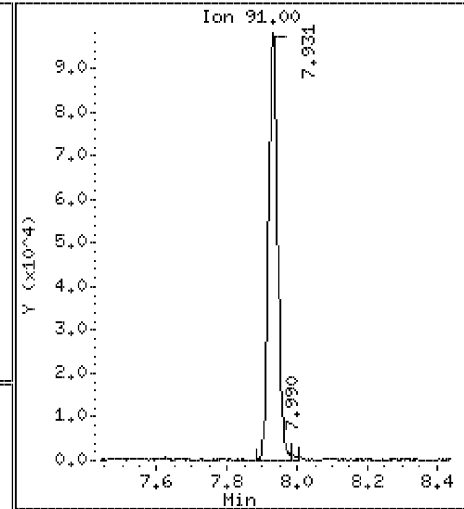
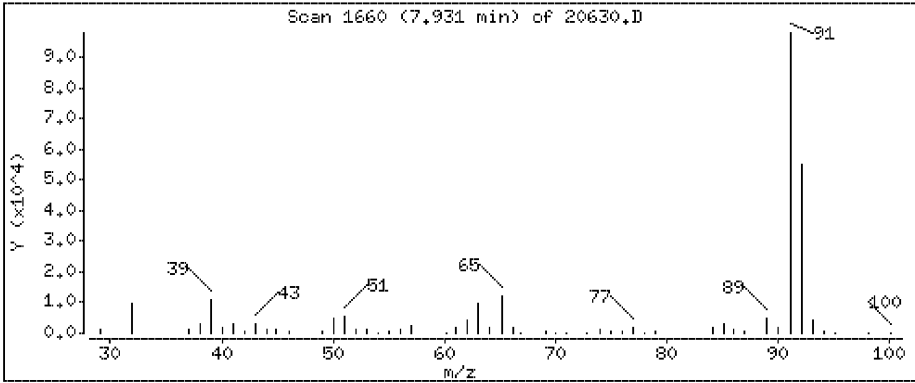
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

49 Toluene

Concentration: 3.62 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20630.D

Date : 26-JUL-2013 03:33

Client ID:

Instrument: 10airD.i

Sample Info:

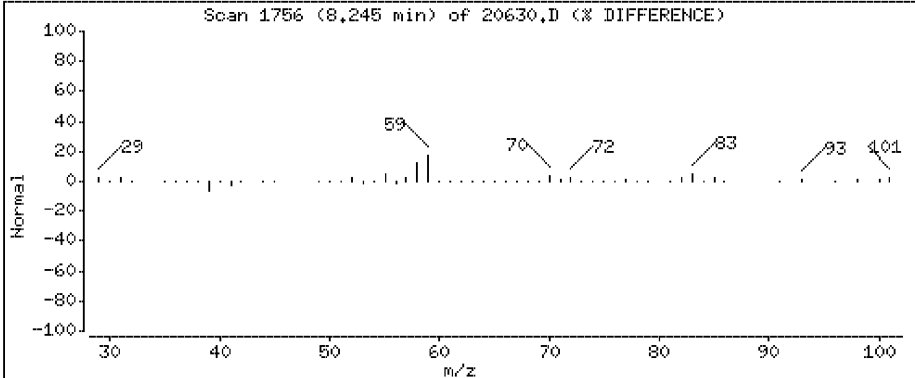
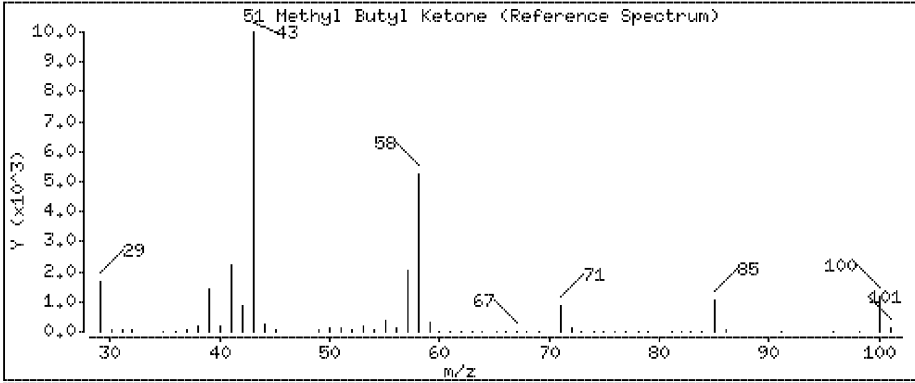
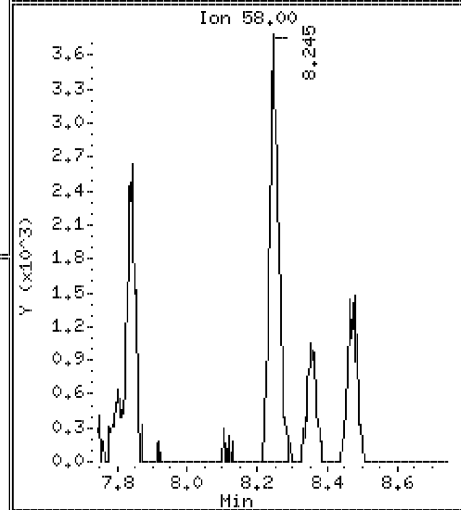
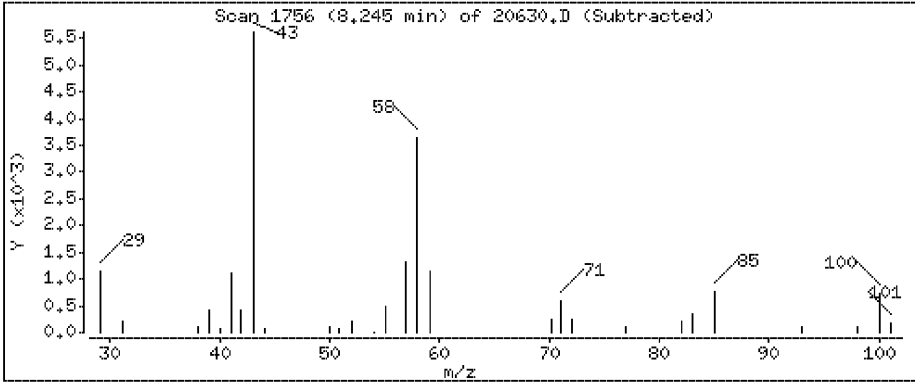
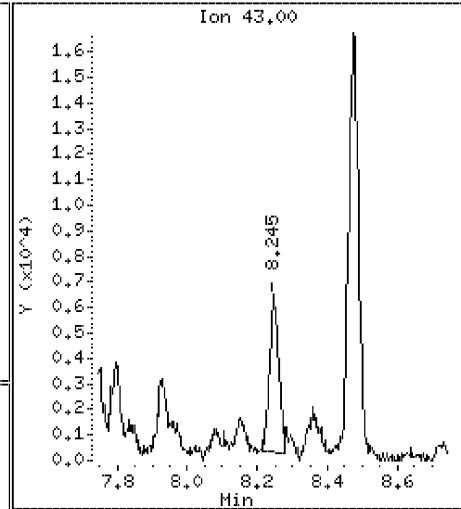
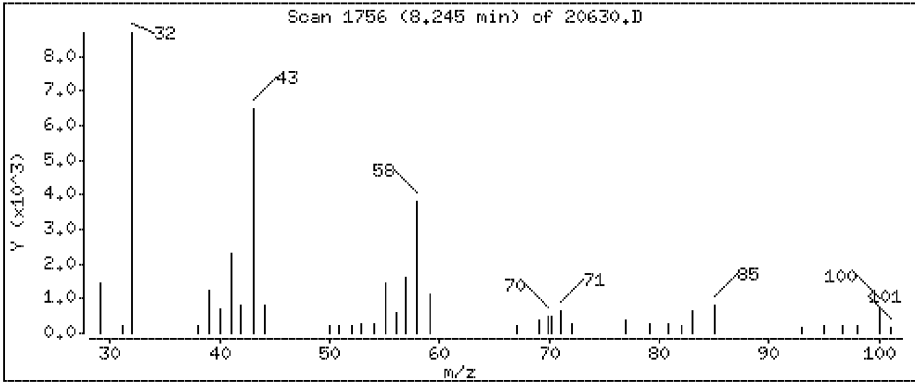
Operator: DR1

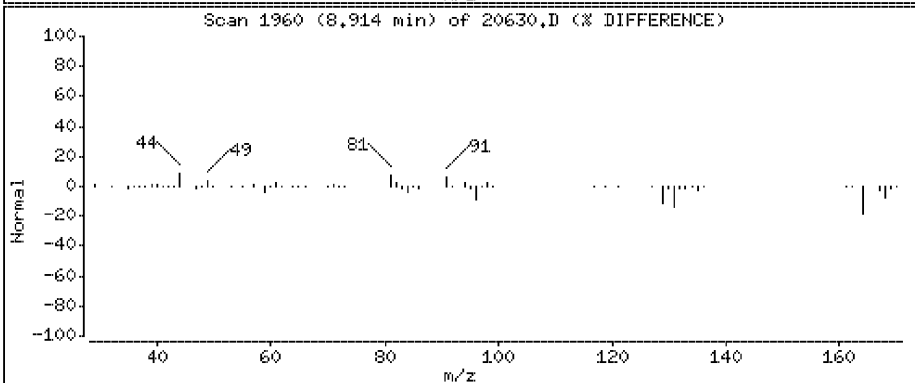
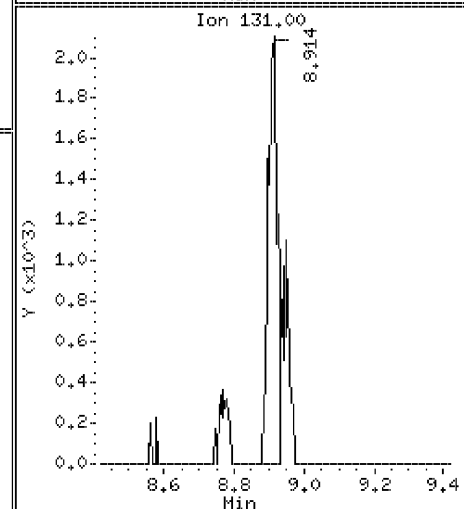
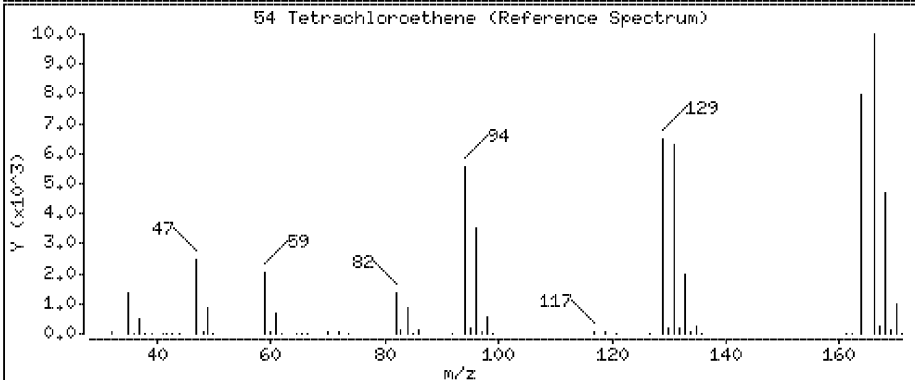
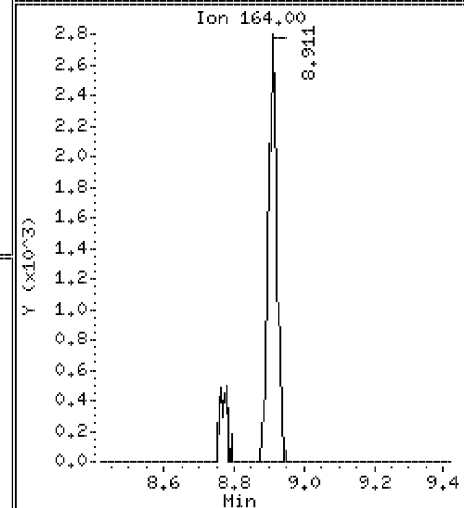
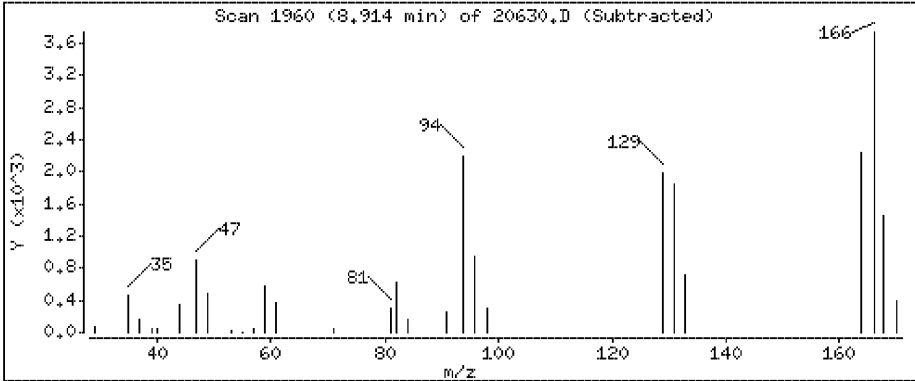
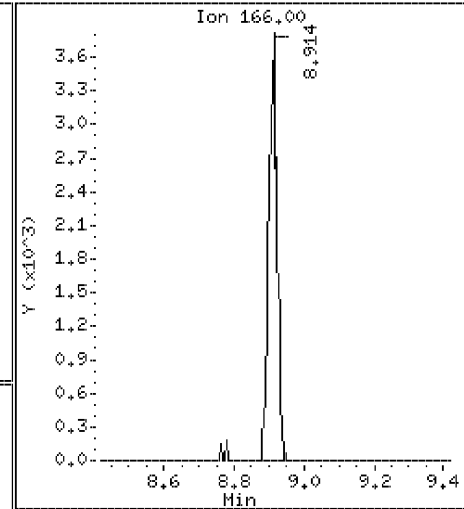
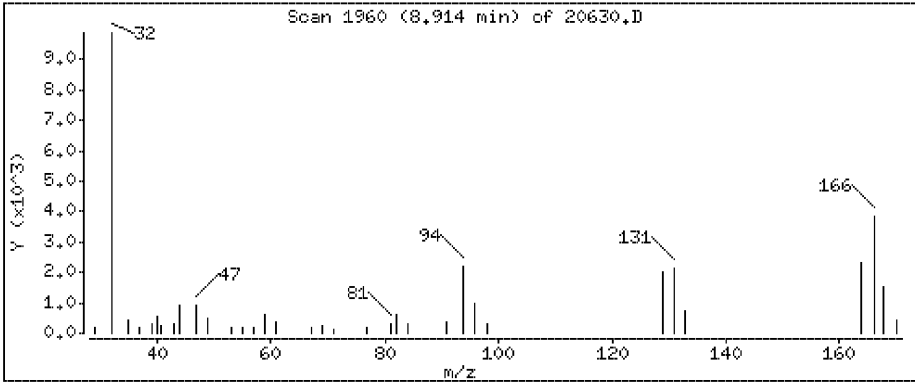
Column phase: J&W DB-5

Column diameter: 0.32

51 Methyl Butyl Ketone

Concentration: 0.940 ppbv





Data File: \\192.168.10.12\chem\10airD.i\072513,b\20630.D

Date : 26-JUL-2013 03:33

Client ID:

Instrument: 10airD.i

Sample Info:

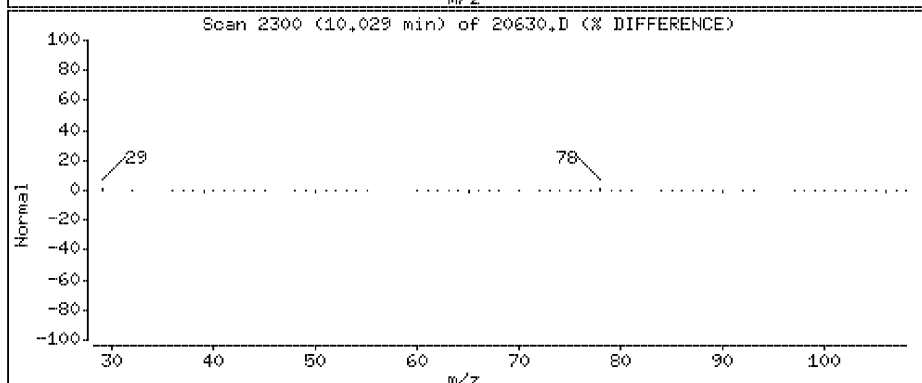
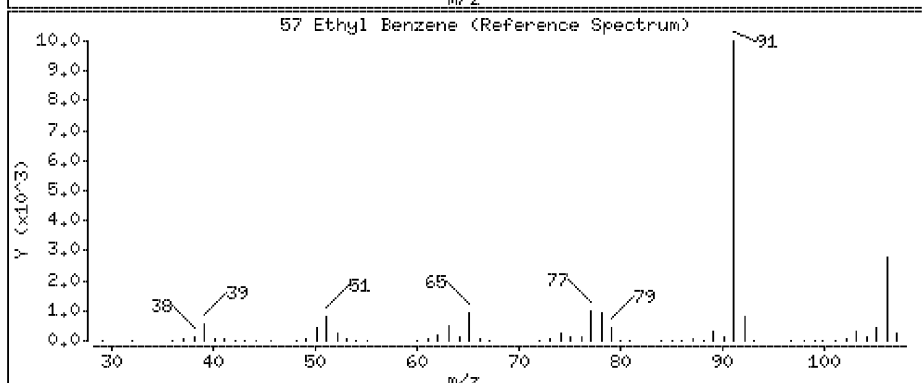
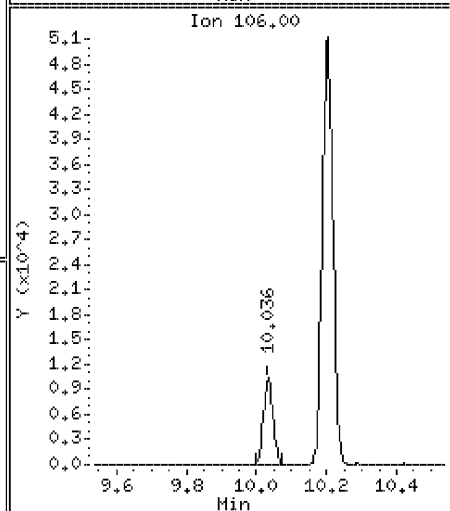
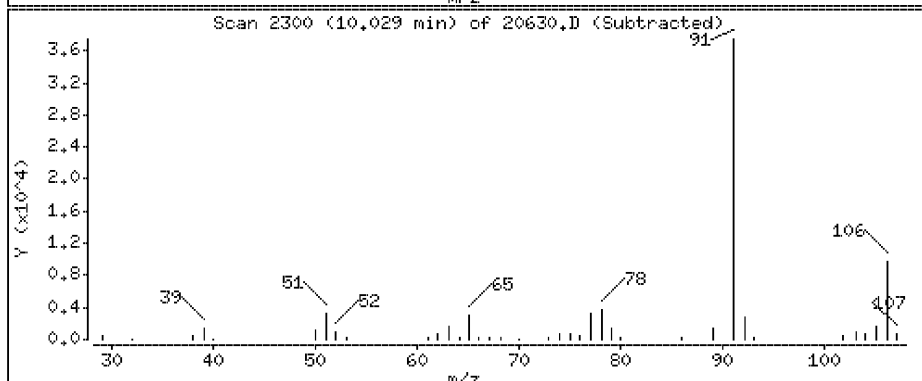
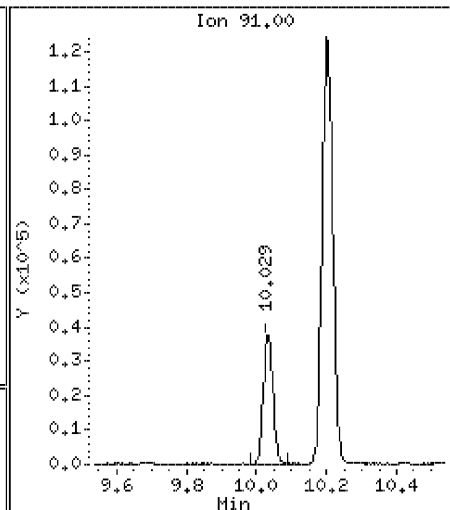
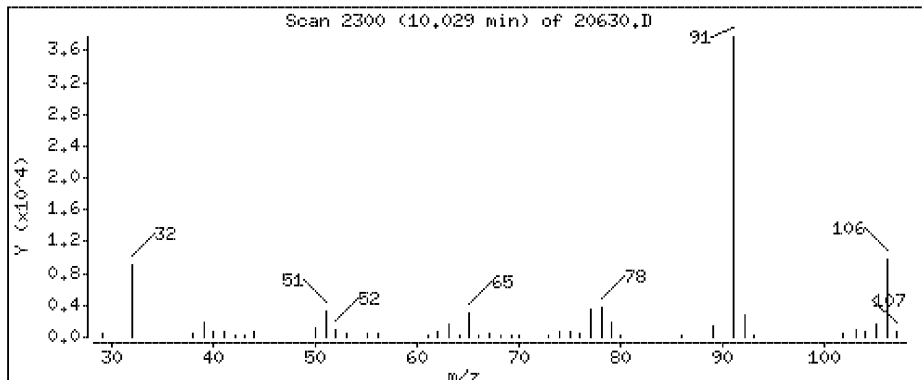
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

57 Ethyl Benzene

Concentration: 1.43 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20630.D

Date : 26-JUL-2013 03:33

Client ID:

Instrument: 10airD.i

Sample Info:

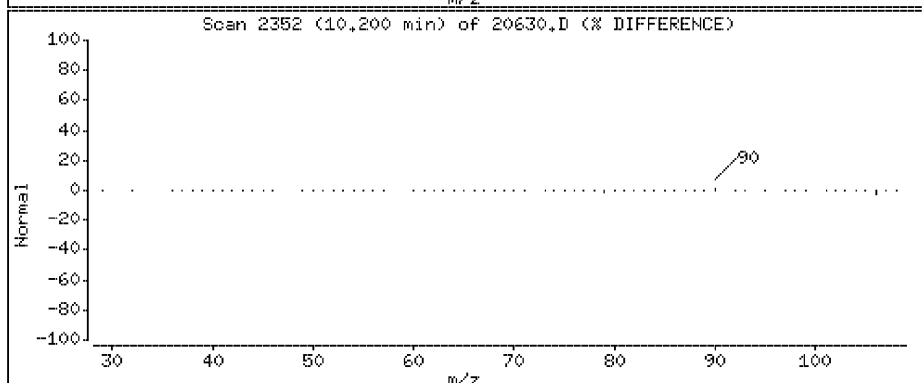
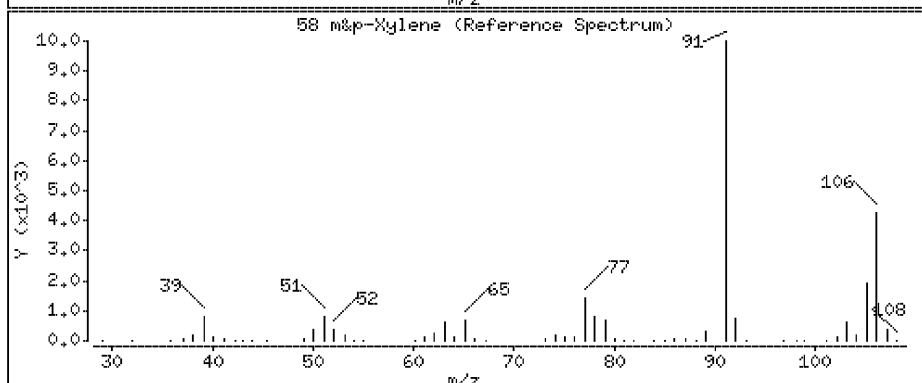
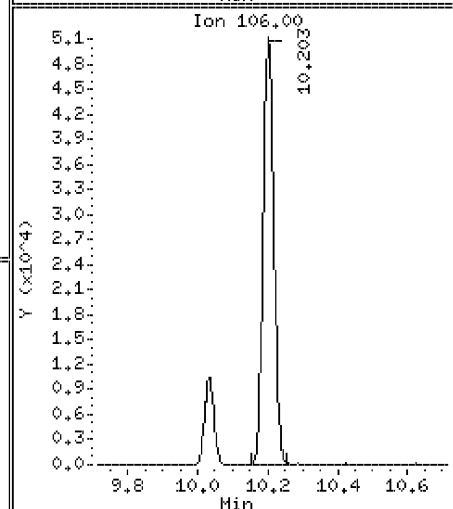
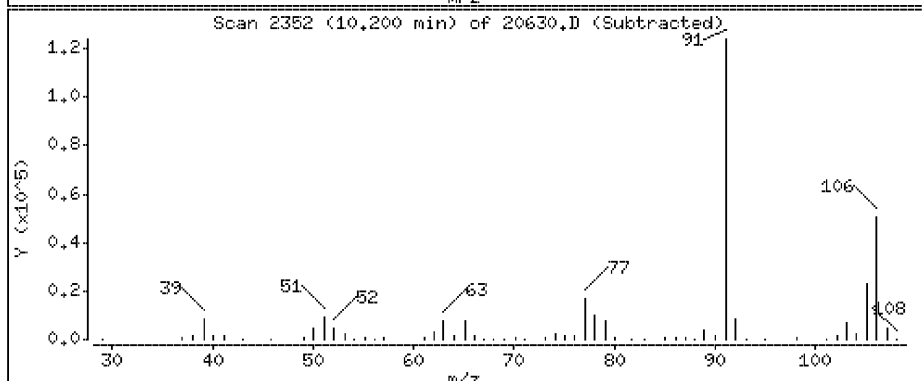
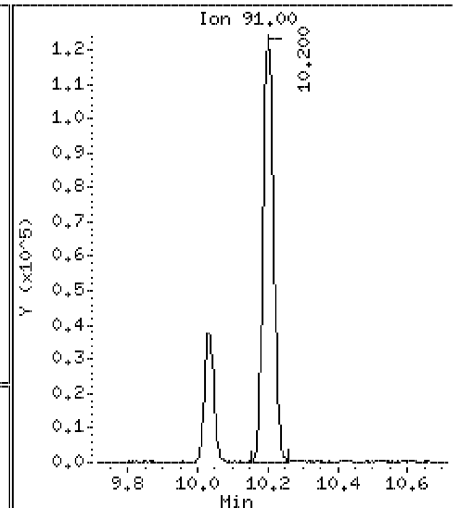
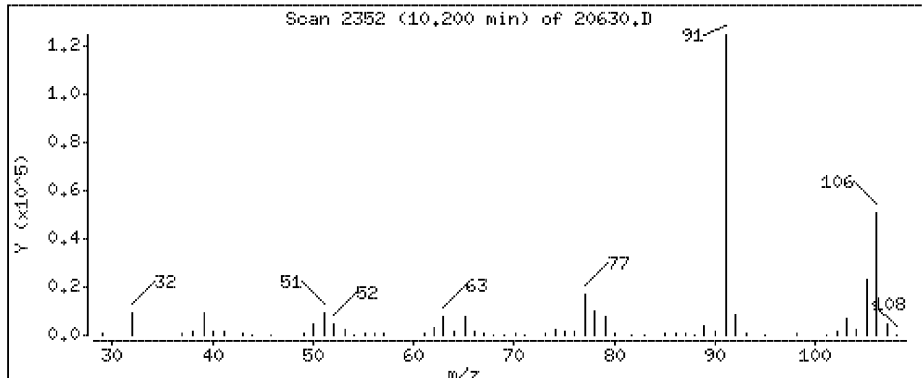
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

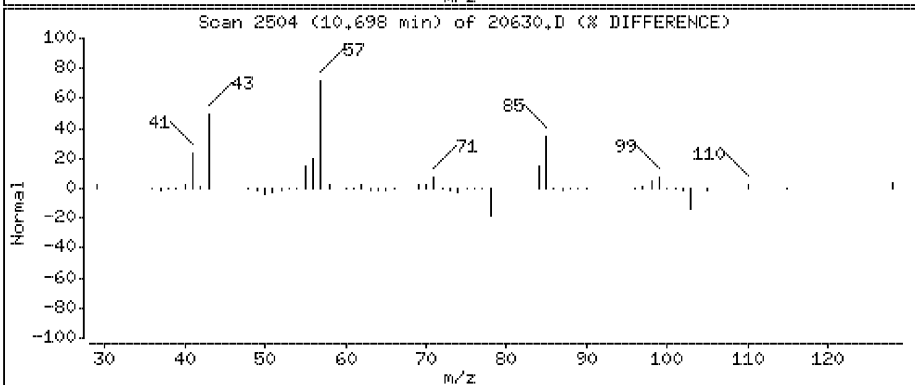
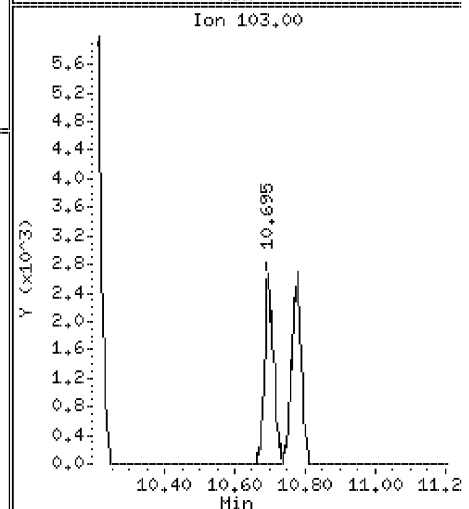
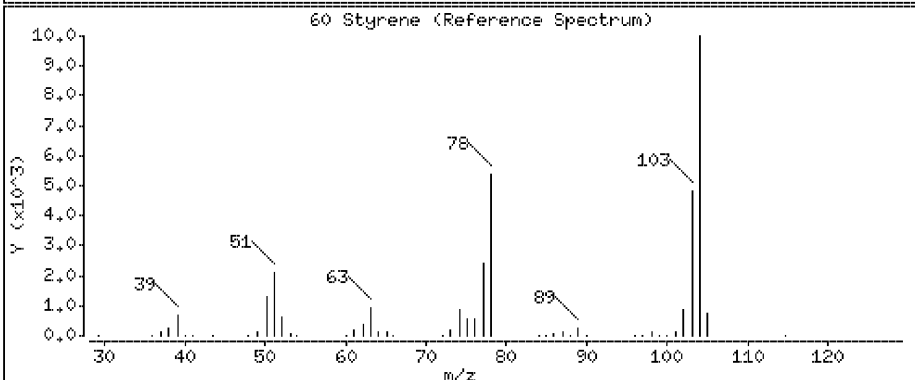
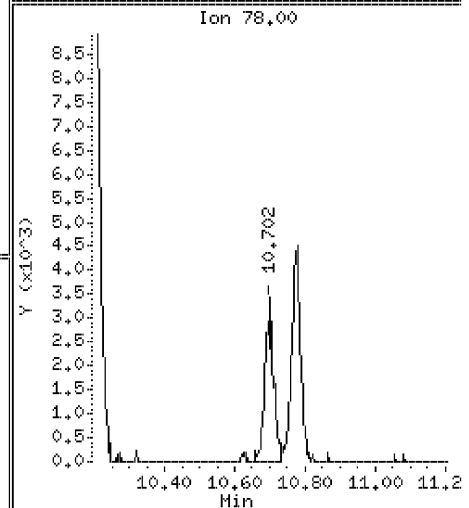
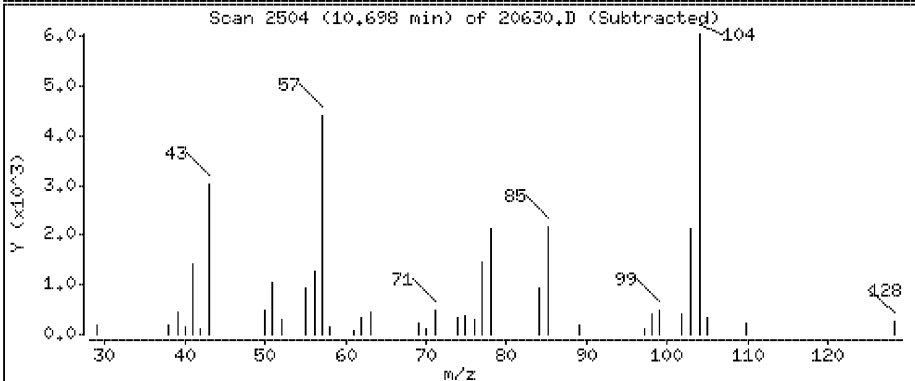
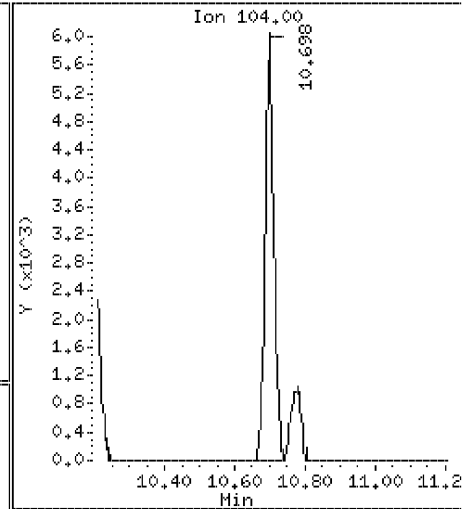
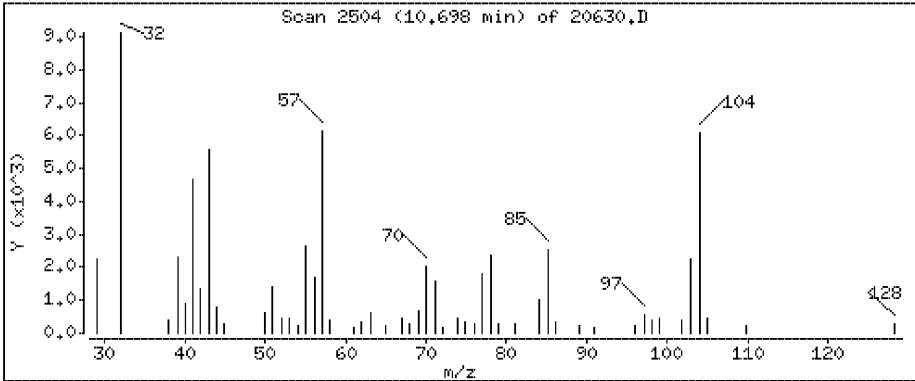
58 m&p-Xylene

Concentration: 4.75 ppbv



60 Styrene

Concentration: 0.957 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20630.D

Date : 26-JUL-2013 03:33

Client ID:

Instrument: 10airD.i

Sample Info:

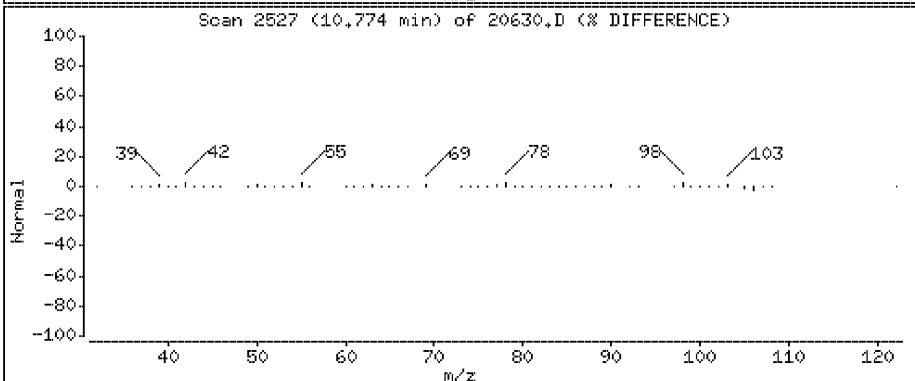
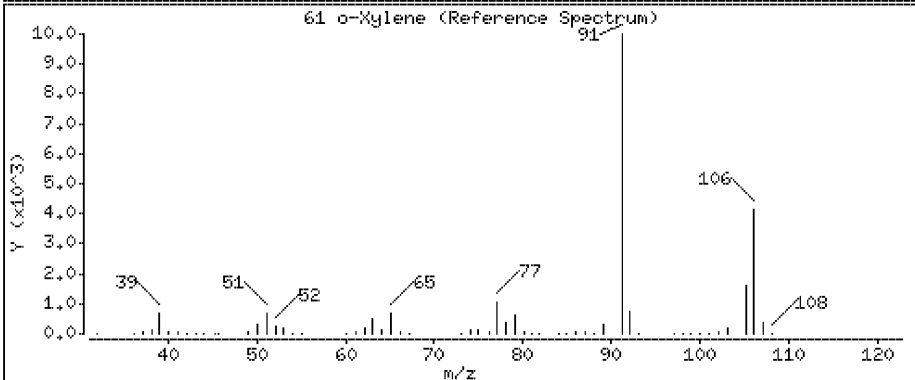
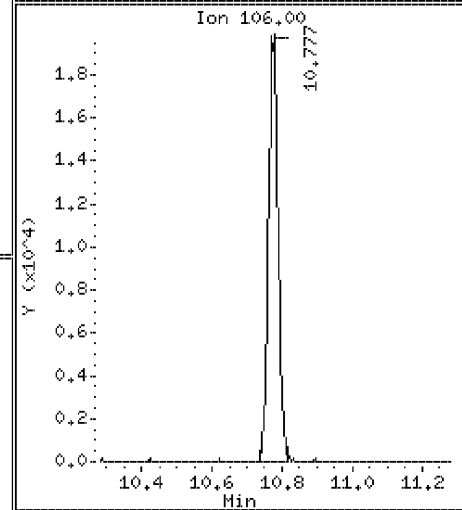
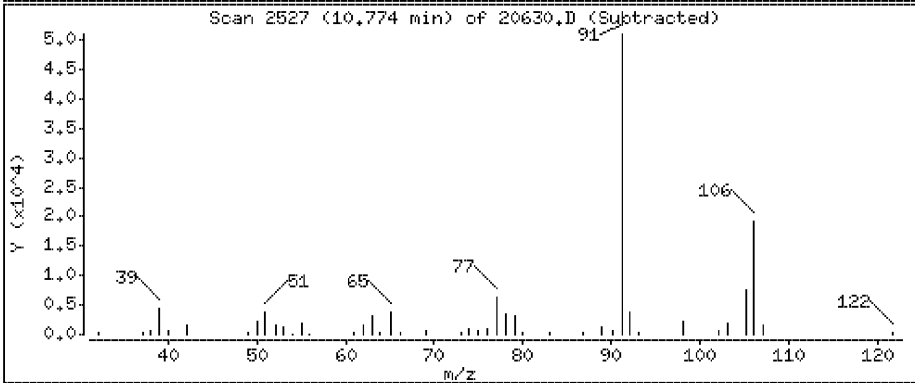
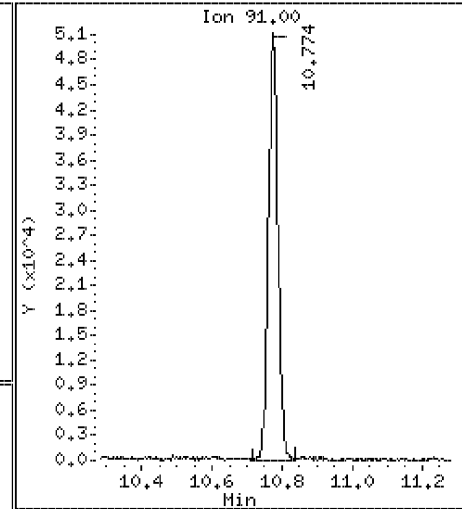
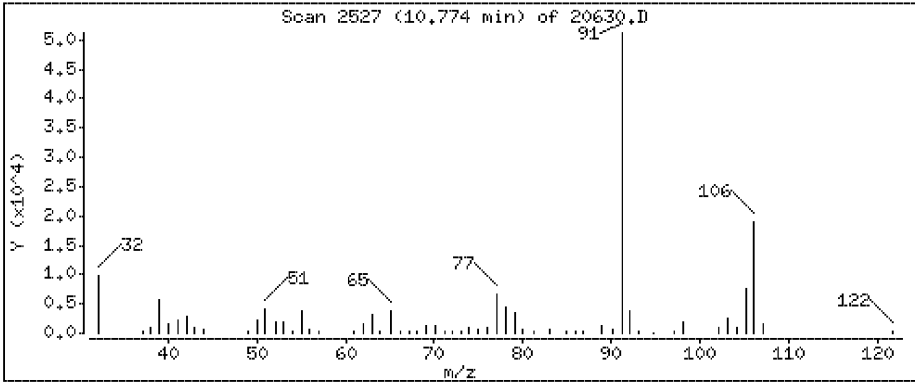
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

61 o-Xylene

Concentration: 1.85 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20630.D

Date : 26-JUL-2013 03:33

Client ID:

Instrument: 10airD.i

Sample Info:

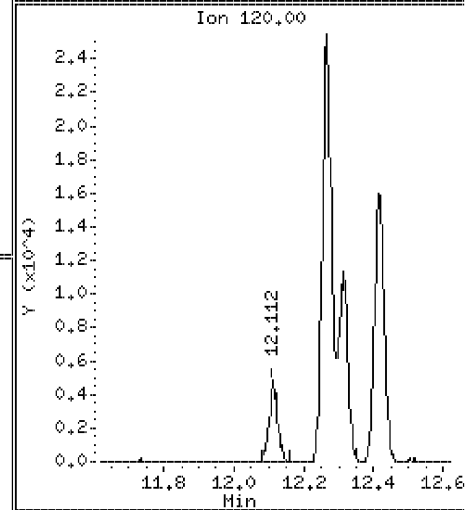
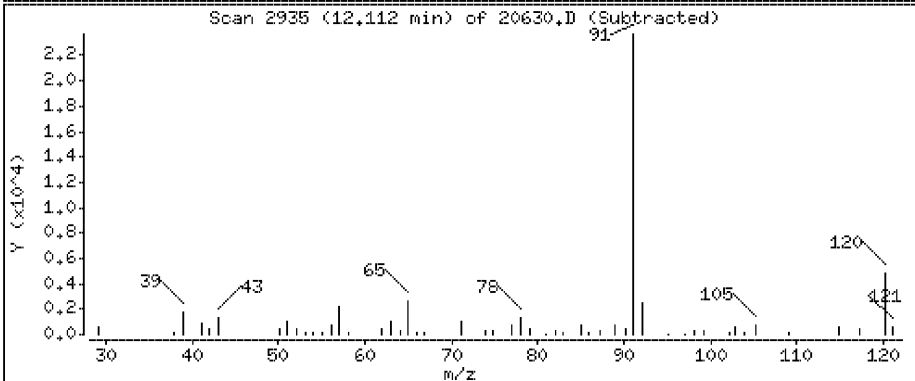
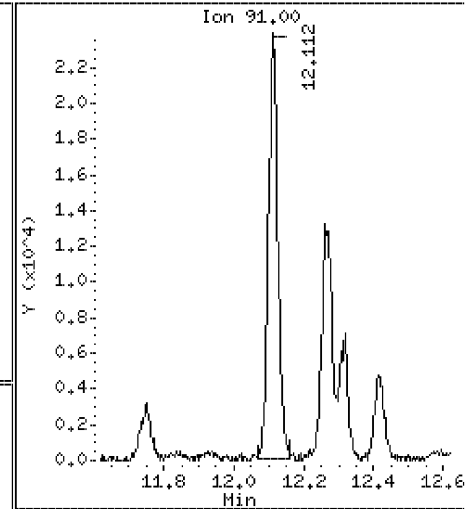
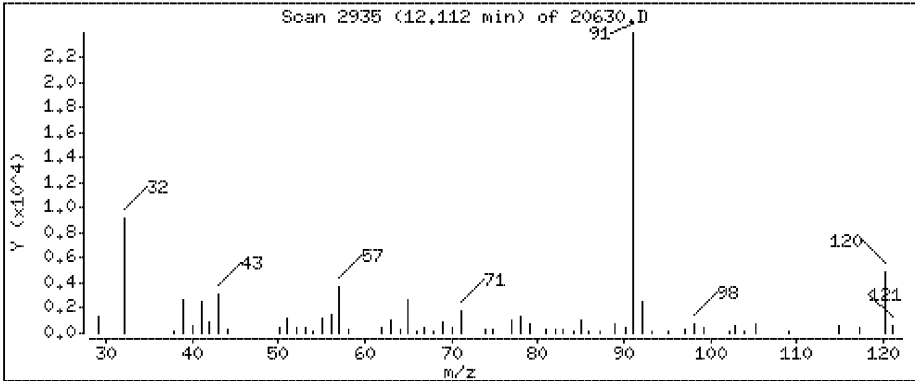
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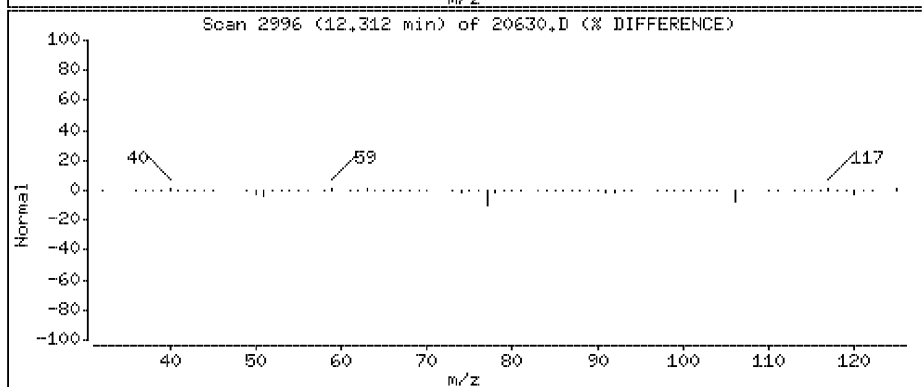
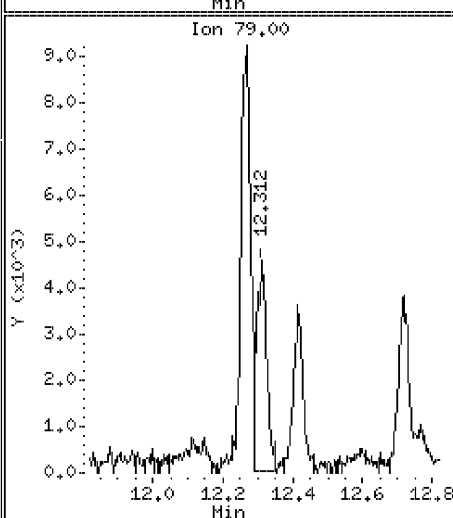
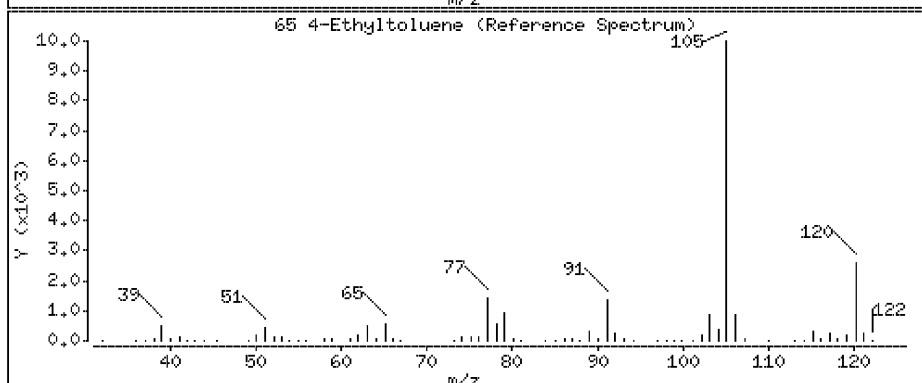
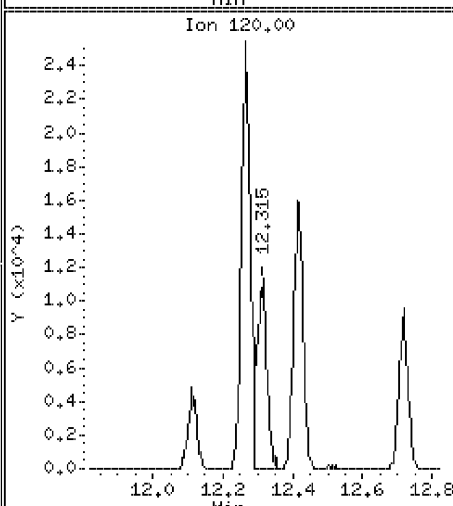
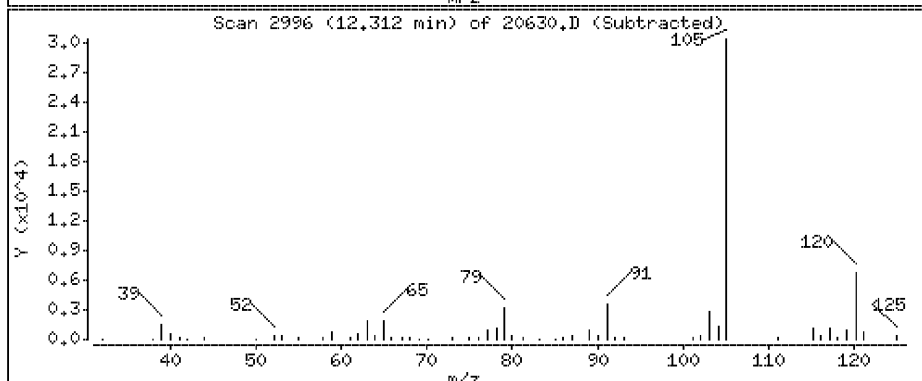
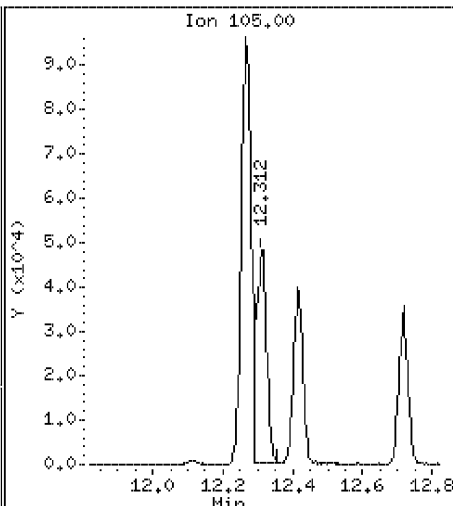
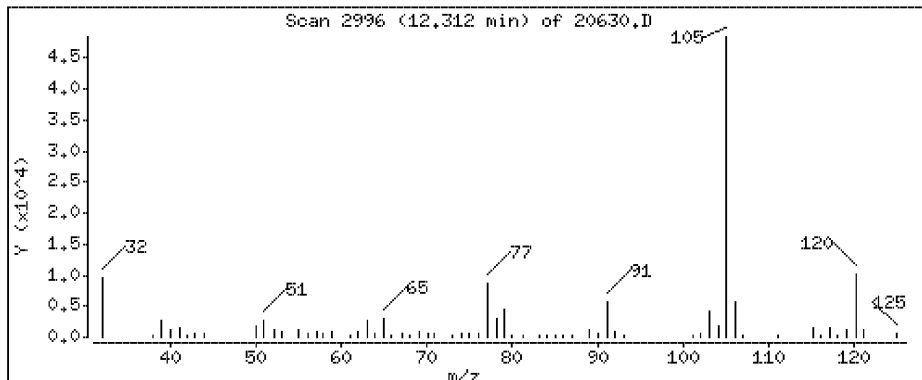
Column phase: J&W DB-5

Column diameter: 0.32

64 N-Propylbenzene

Concentration: 0.917 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20630.D

Date : 26-JUL-2013 03:33

Client ID:

Instrument: 10airD.i

Sample Info:

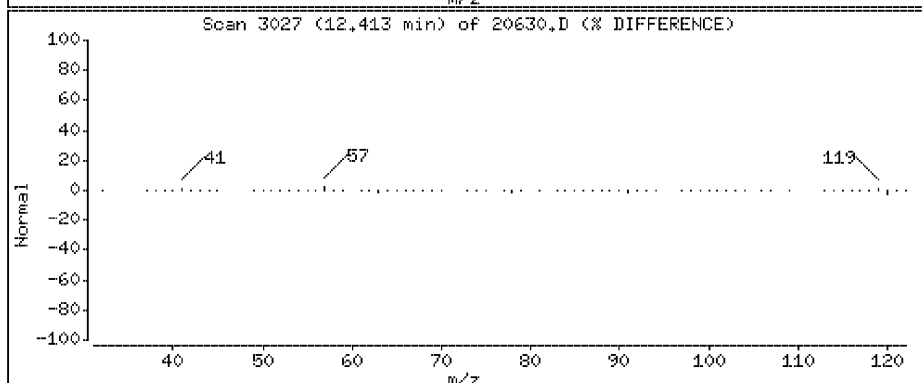
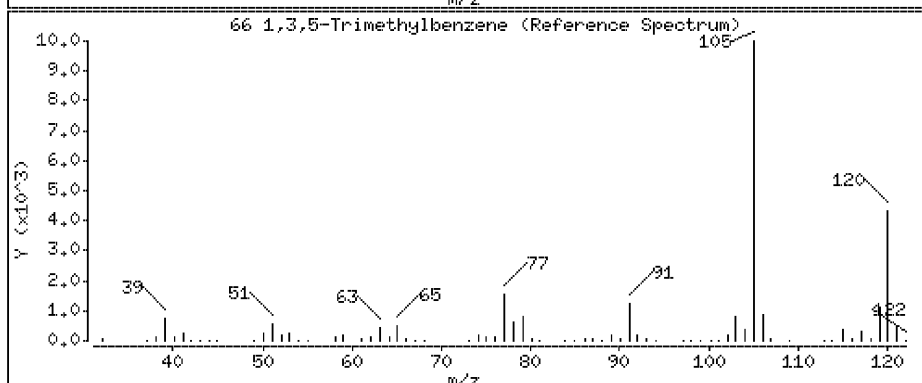
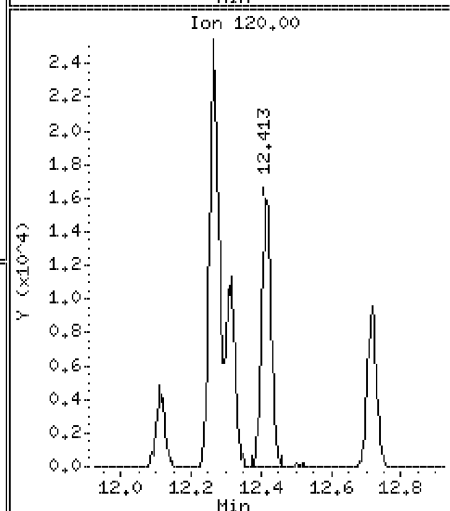
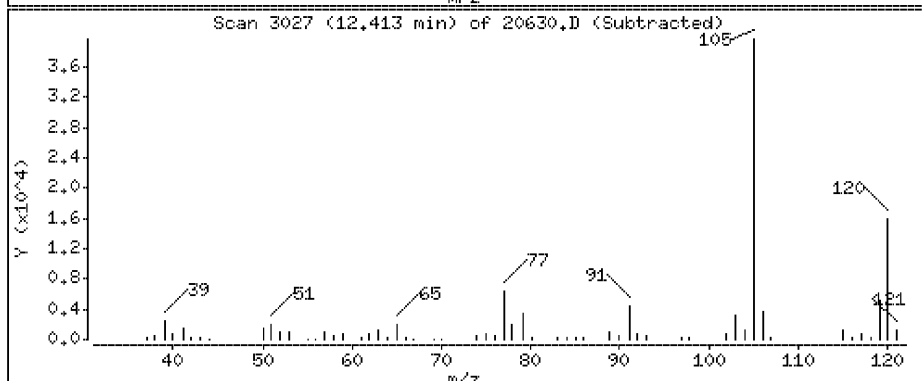
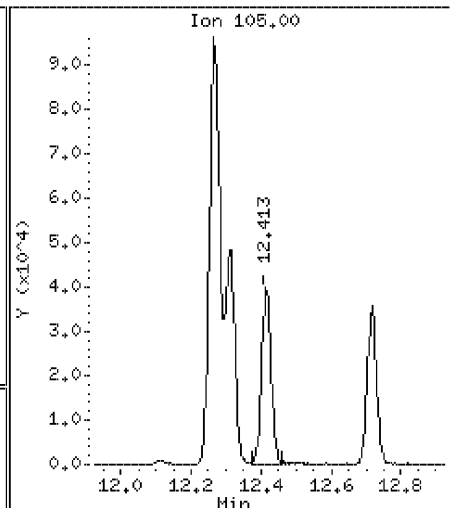
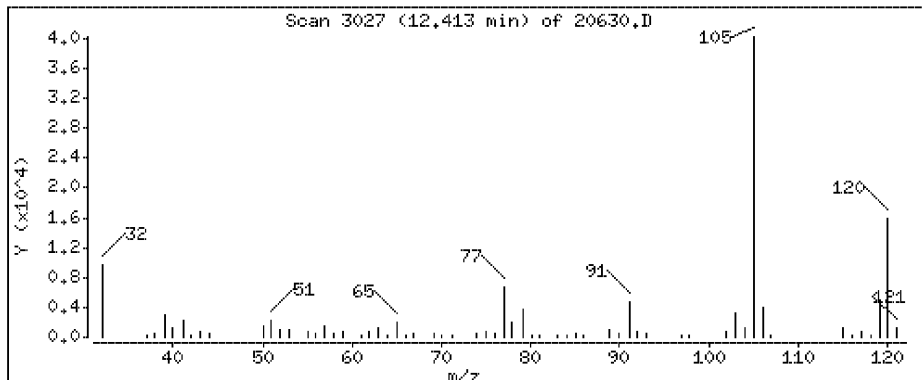
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

66 1,3,5-Trimethylbenzene

Concentration: 1.60 ppbv



Data File: \\192.168.10.12\chem\10airD,i\072513,b\20630.D

Date : 26-JUL-2013 03:33

Client ID:

Instrument: 10airD,i

Sample Info:

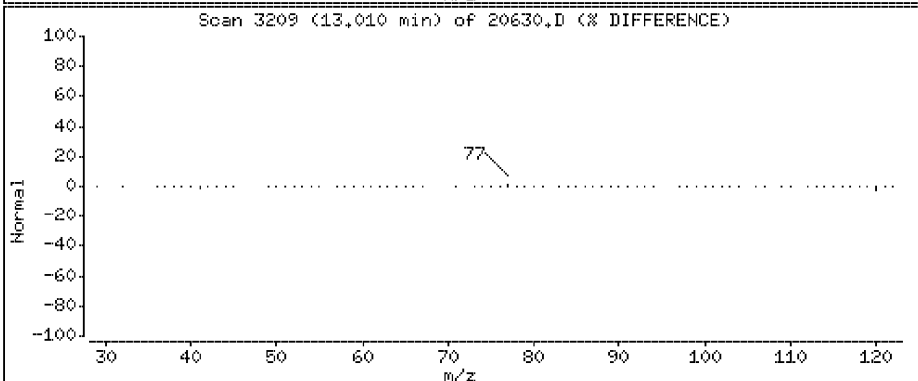
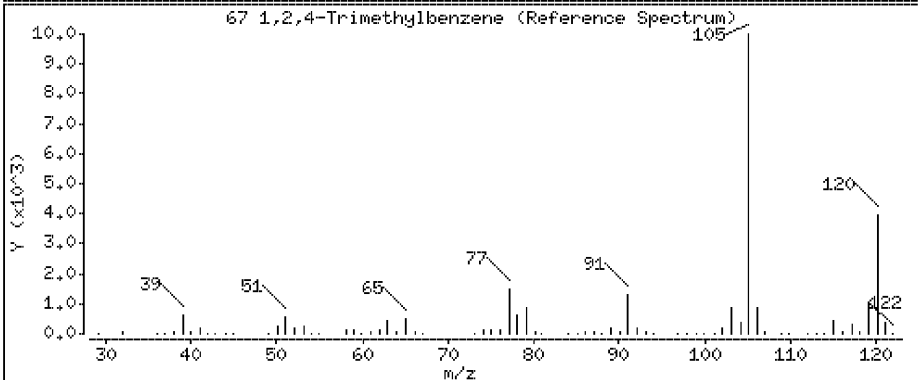
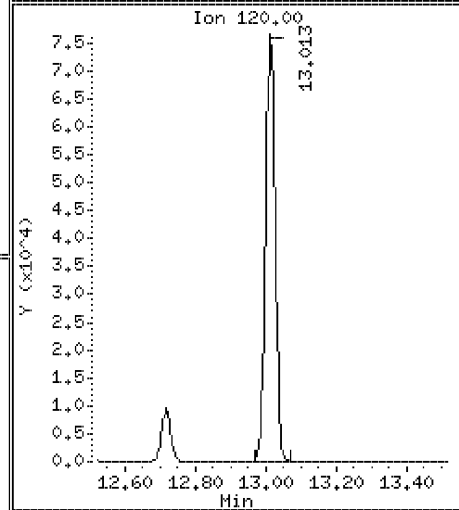
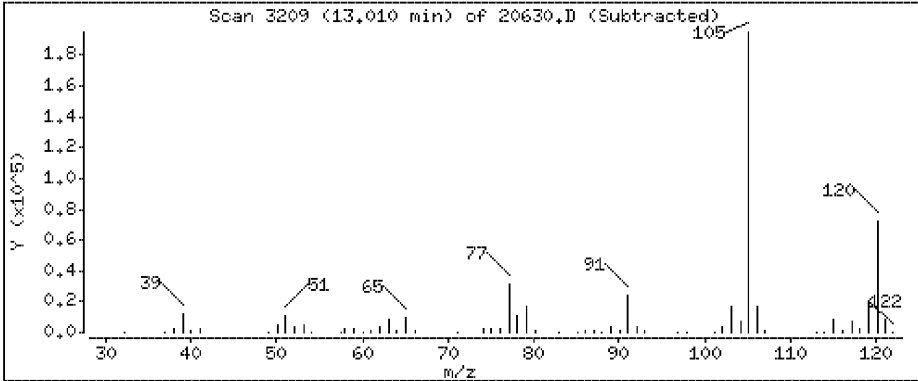
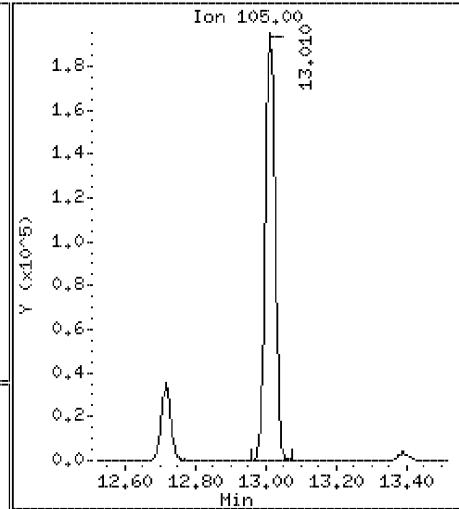
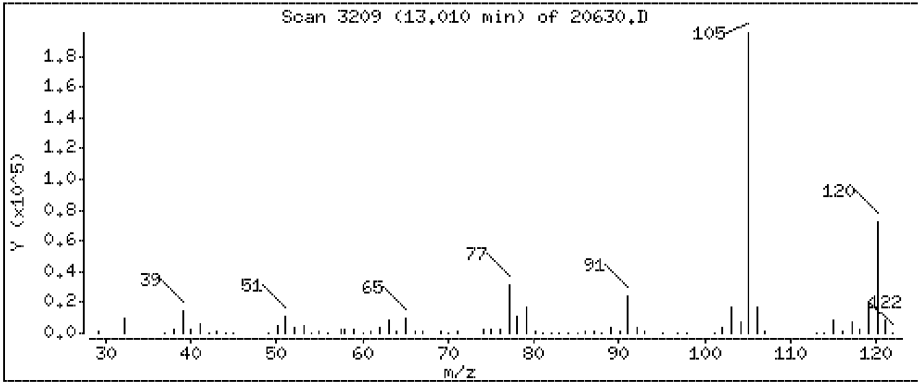
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

67 1,2,4-Trimethylbenzene

Concentration: 6.66 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20630.D

Date : 26-JUL-2013 03:33

Client ID:

Instrument: 10airD.i

Sample Info:

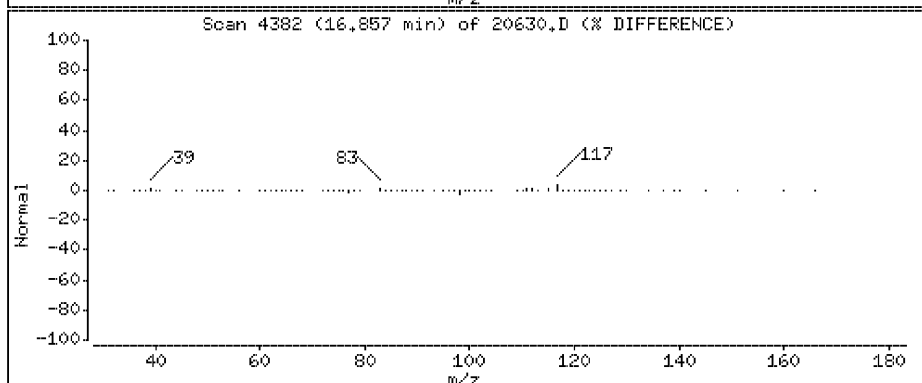
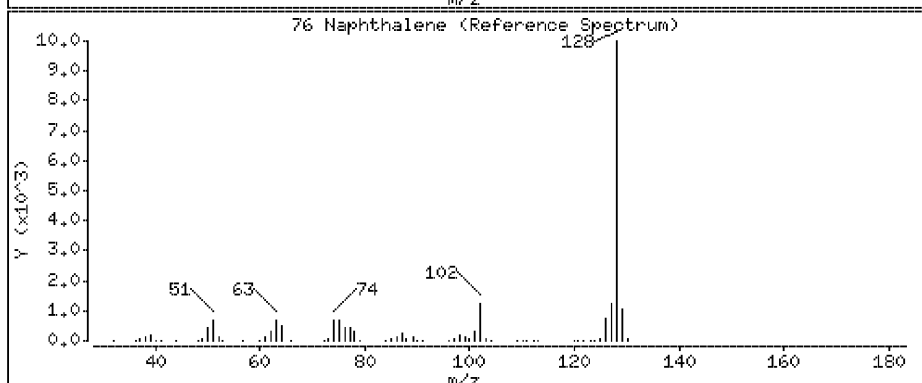
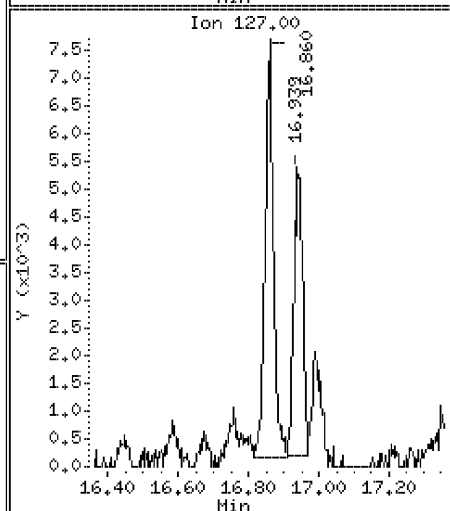
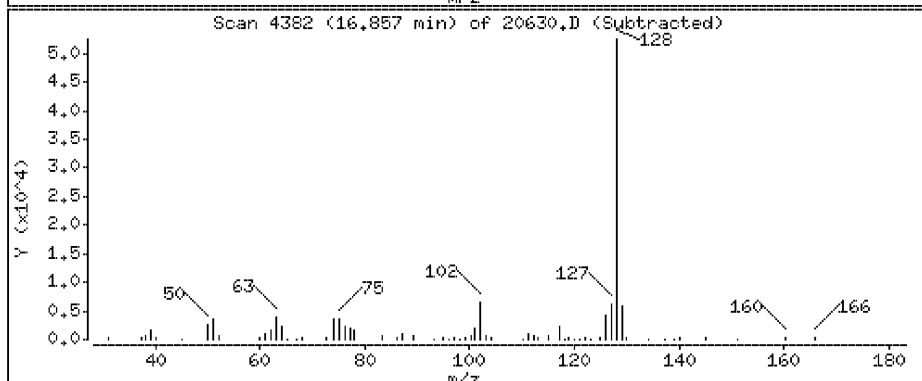
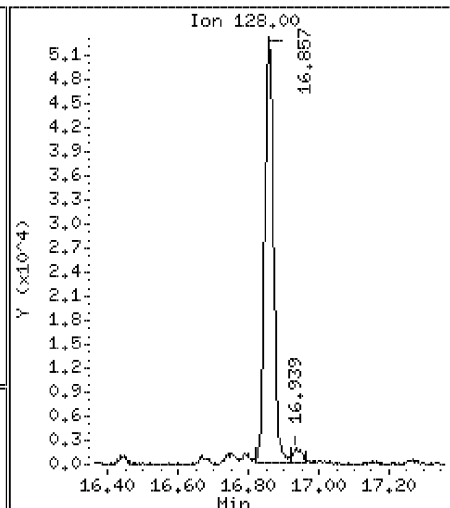
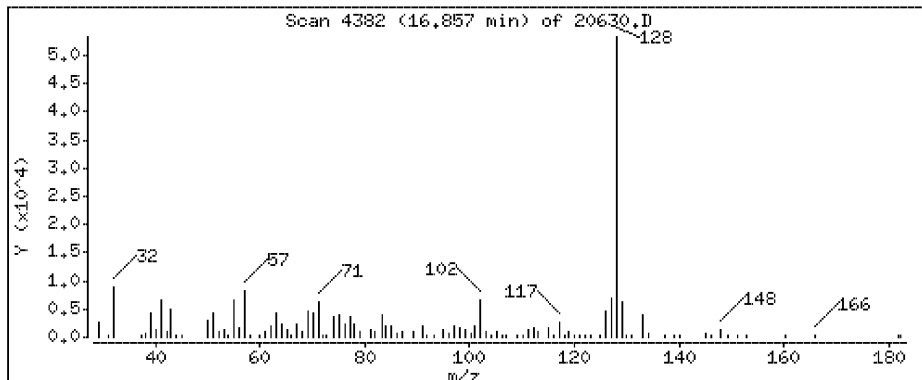
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

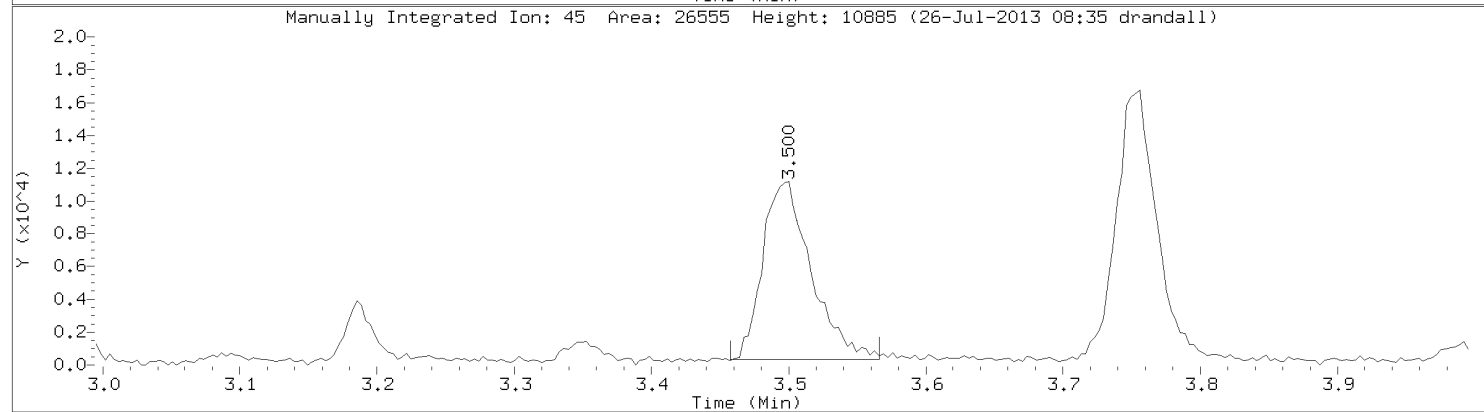
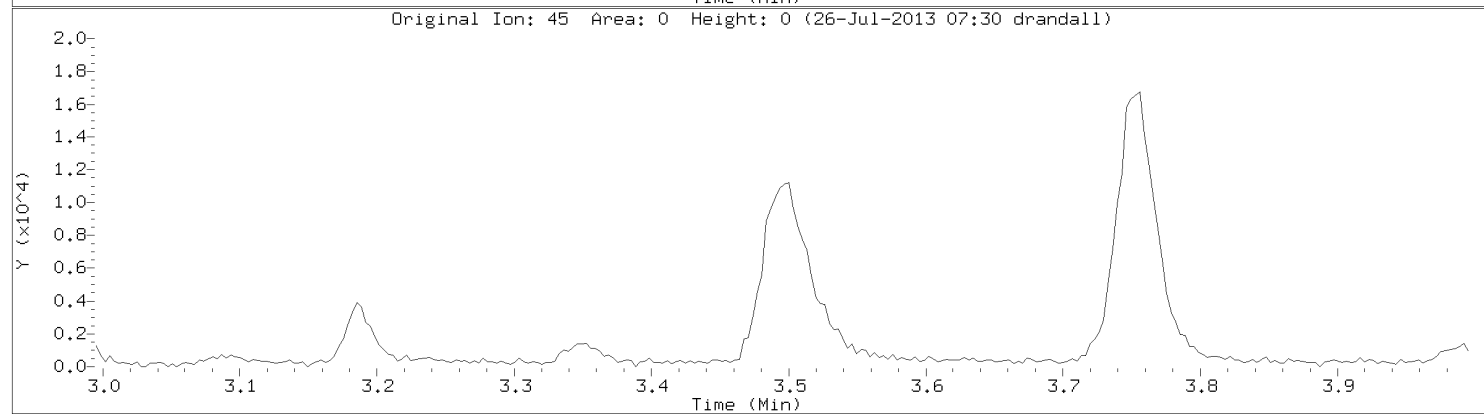
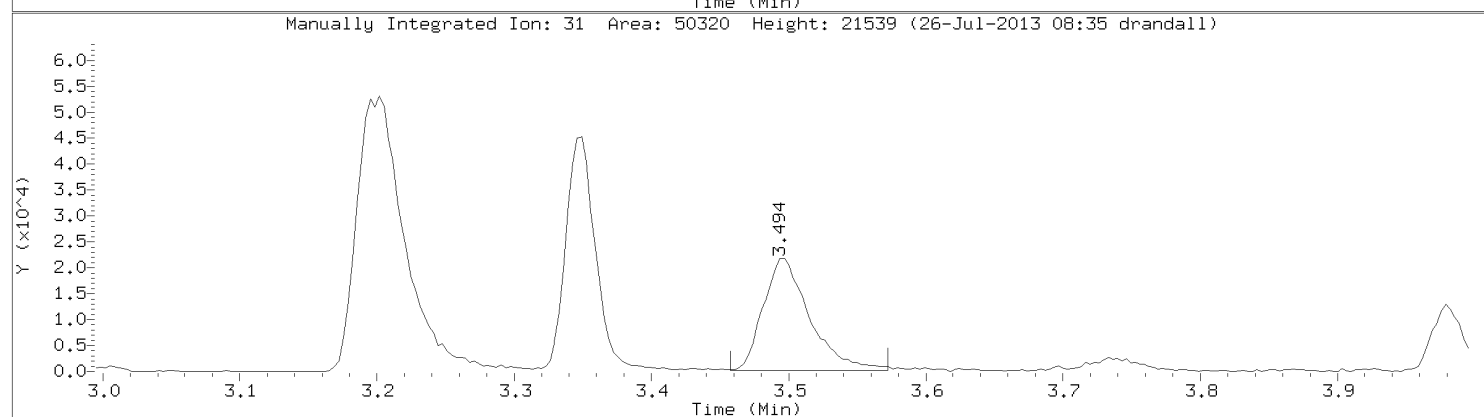
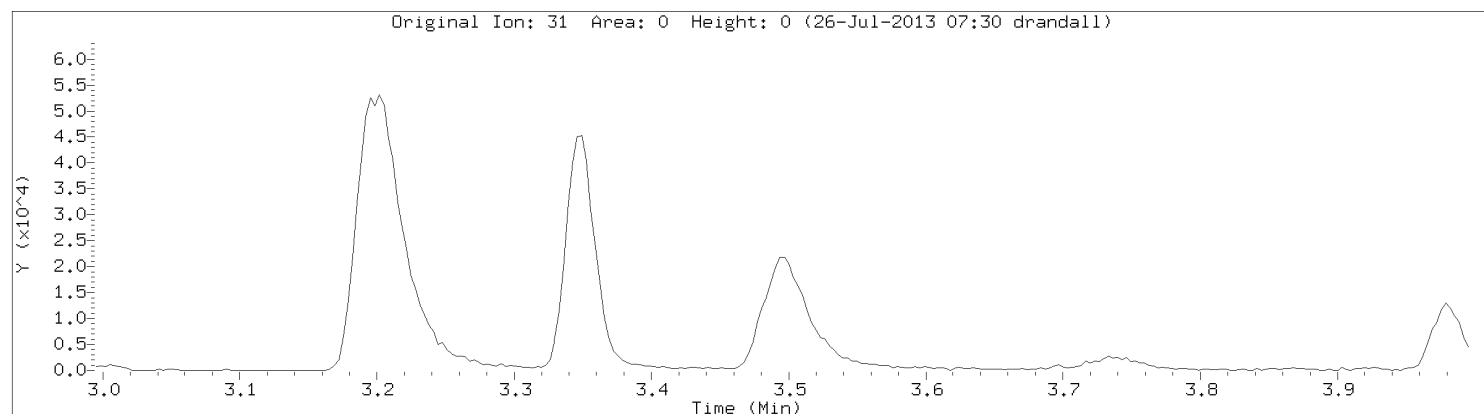
76 Naphthalene

Concentration: 3.64 ppbv



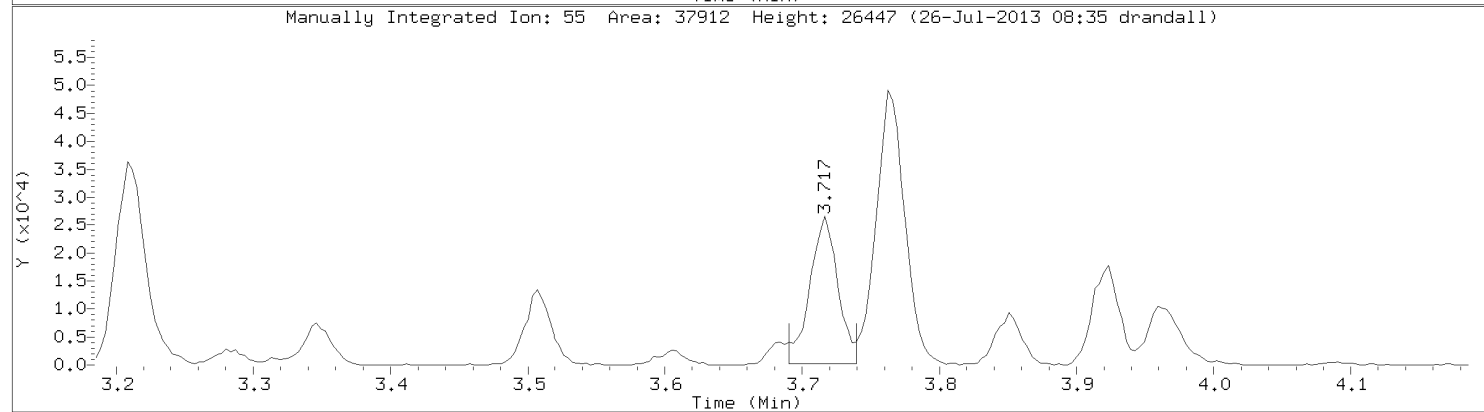
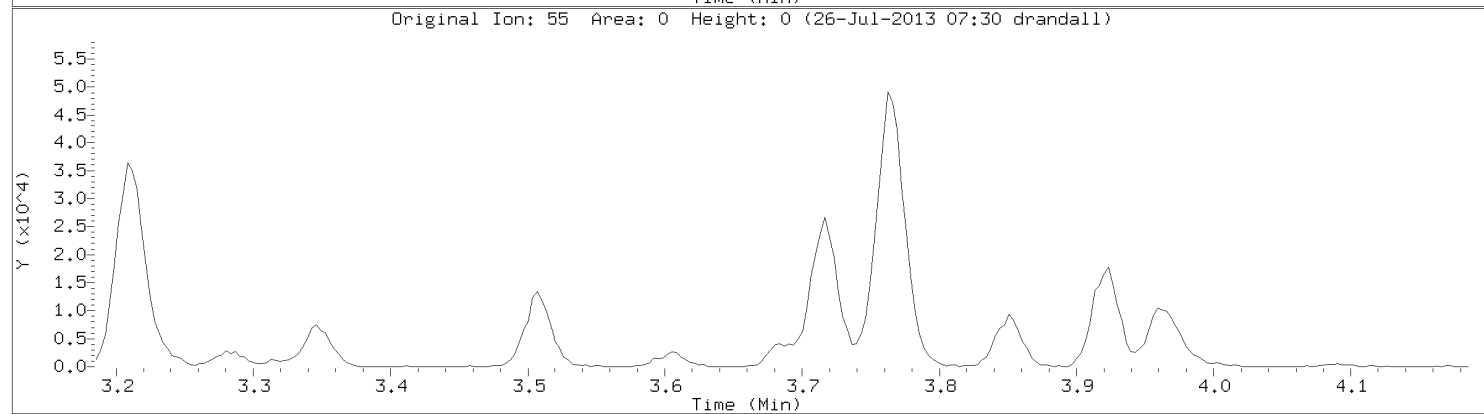
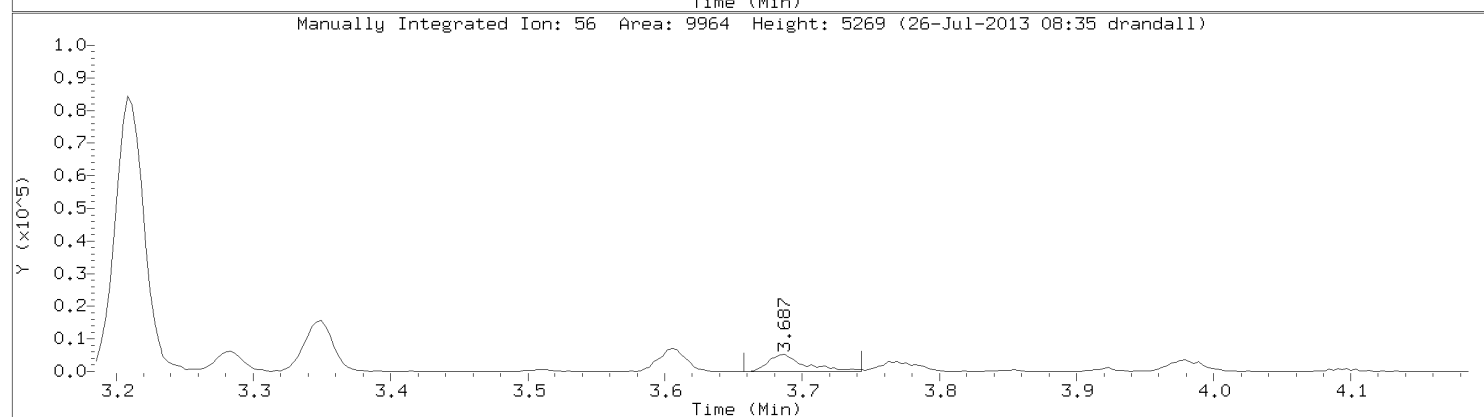
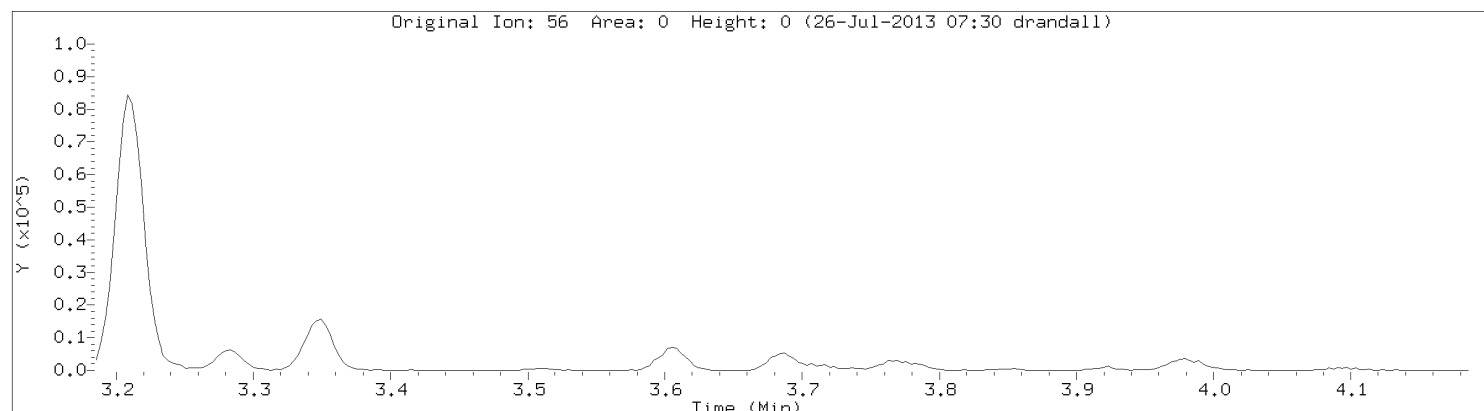
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Injection Date: 26-JUL-2013 03:33
Instrument: 10airD.i
Lab Sample ID: 10236207013

Compound: Ethanol
CAS Number: 64-17-5



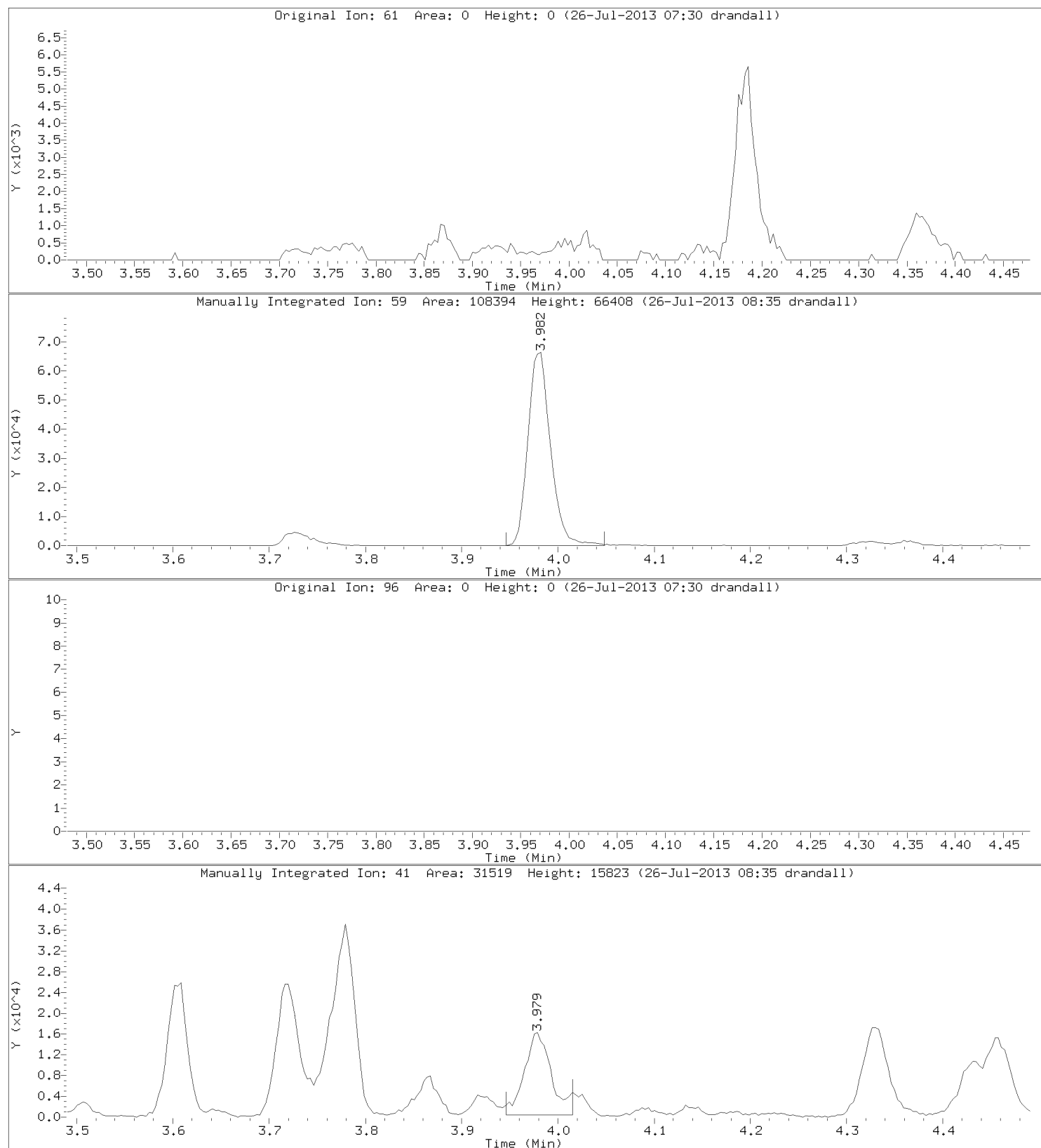
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Injection Date: 26-JUL-2013 03:33
Instrument: 10airD.i
Lab Sample ID: 10236207013

Compound: Acrolein
CAS Number: 107-02-08



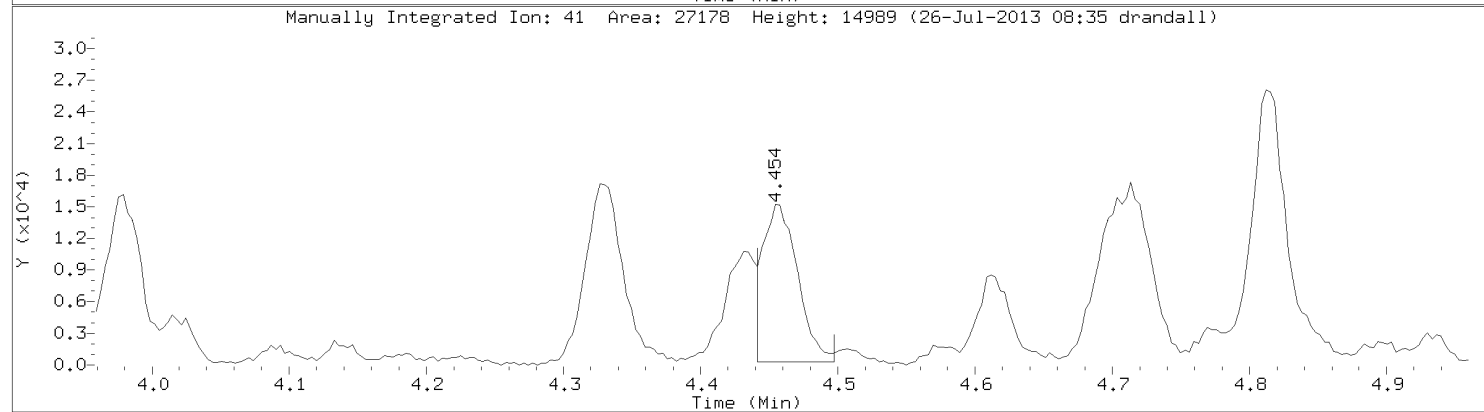
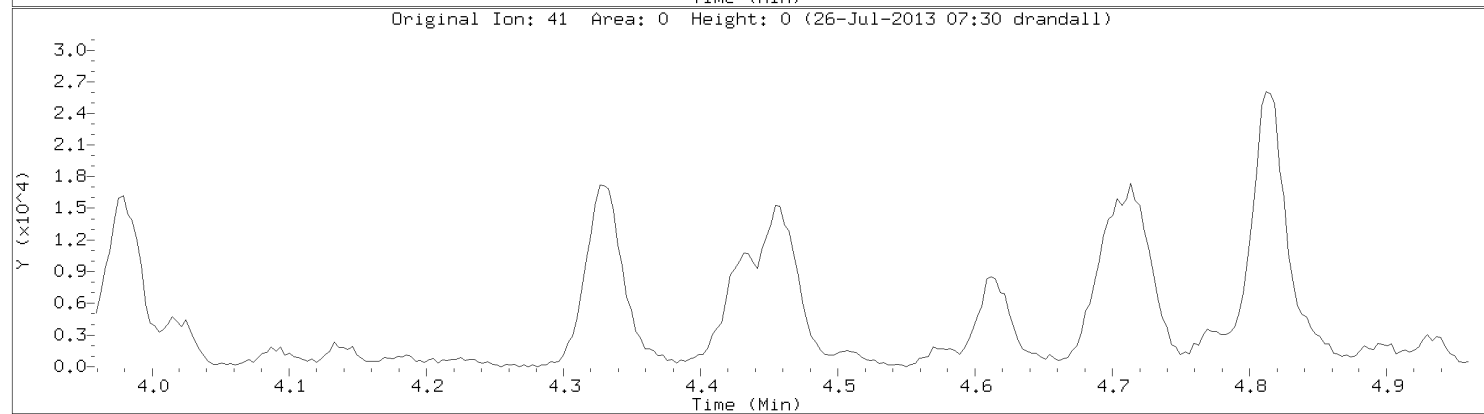
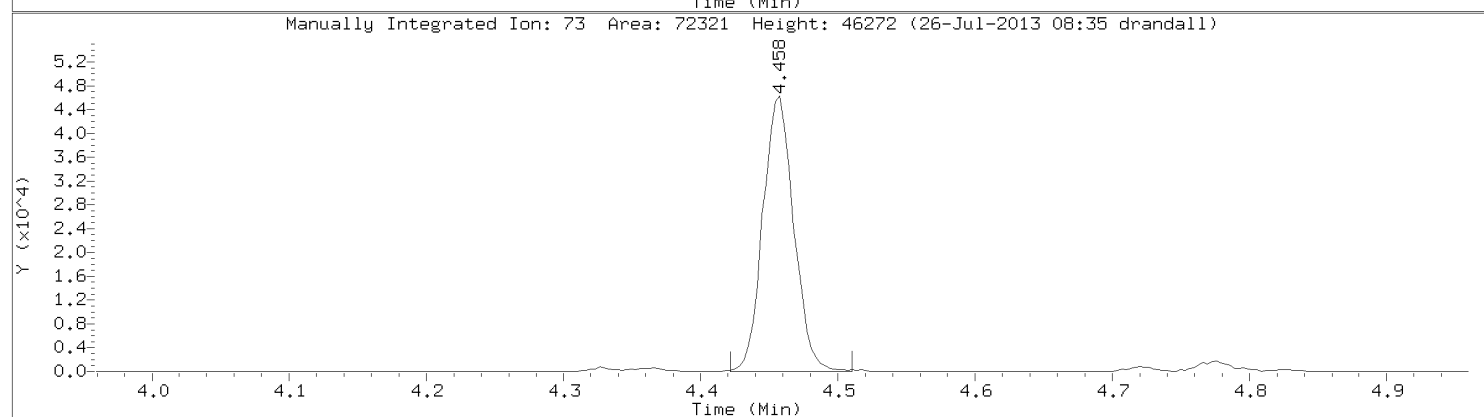
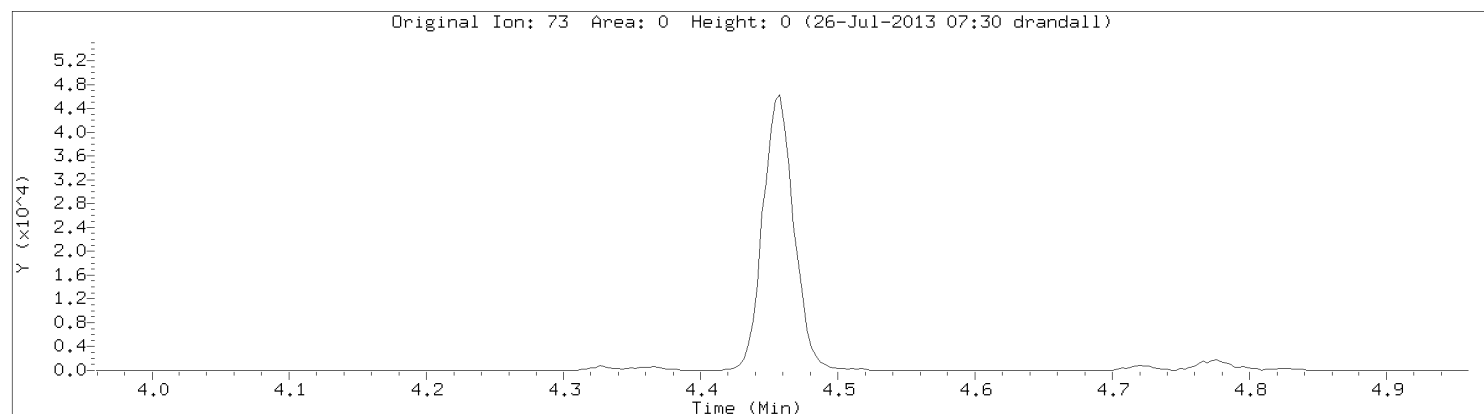
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Injection Date: 26-JUL-2013 03:33
Instrument: 10airD.i
Lab Sample ID: 10236207013

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



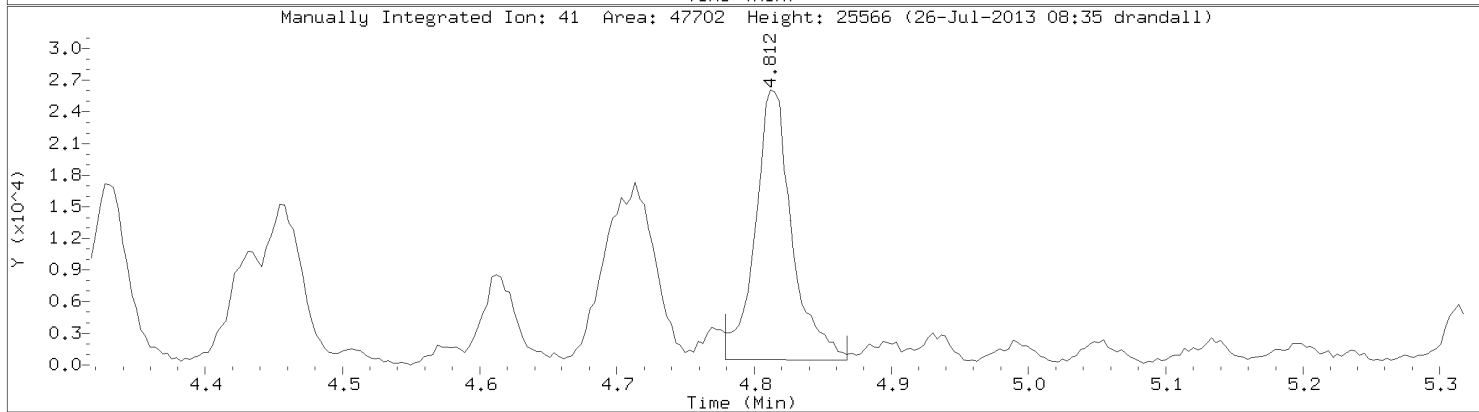
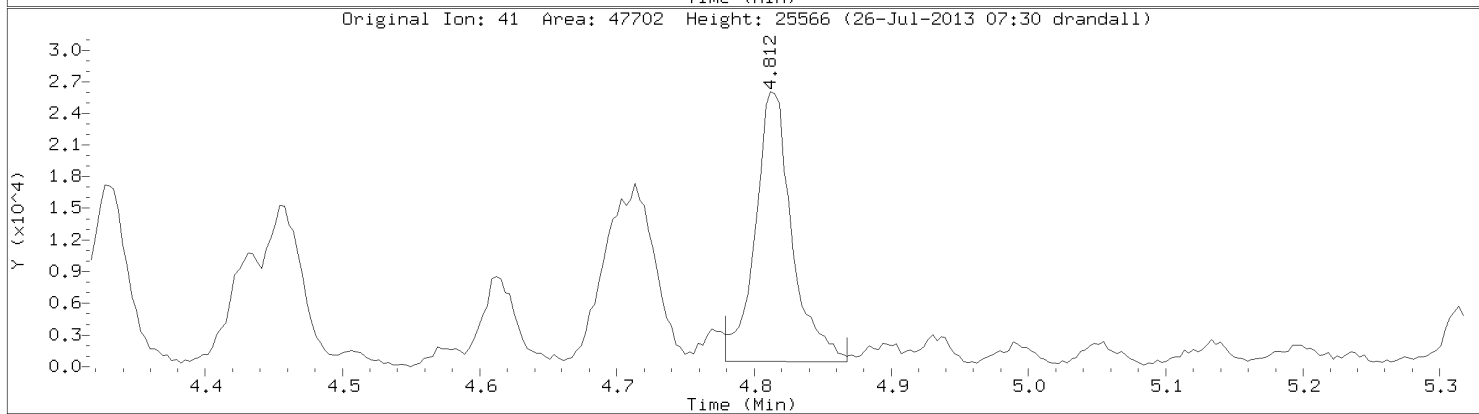
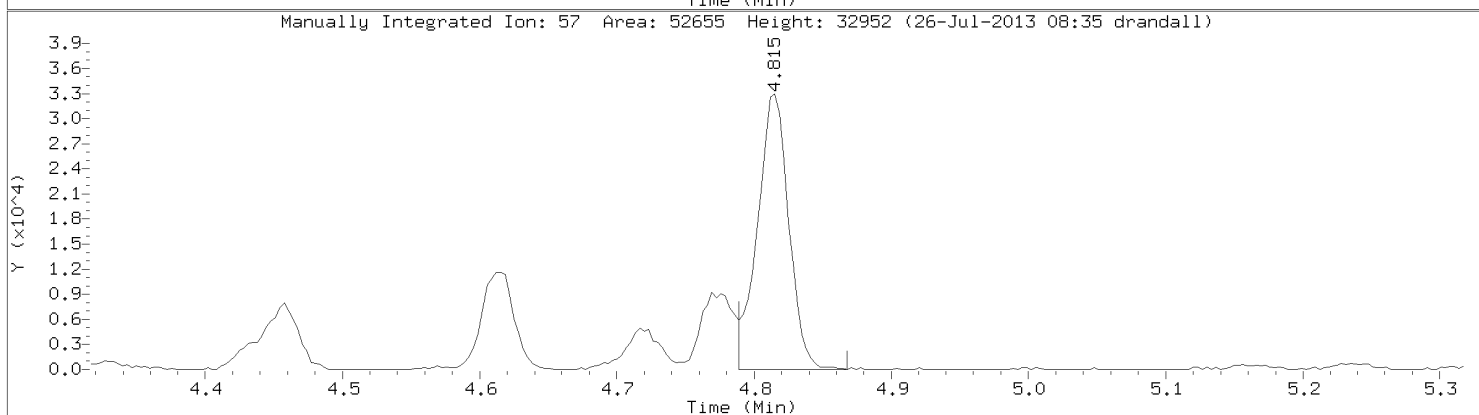
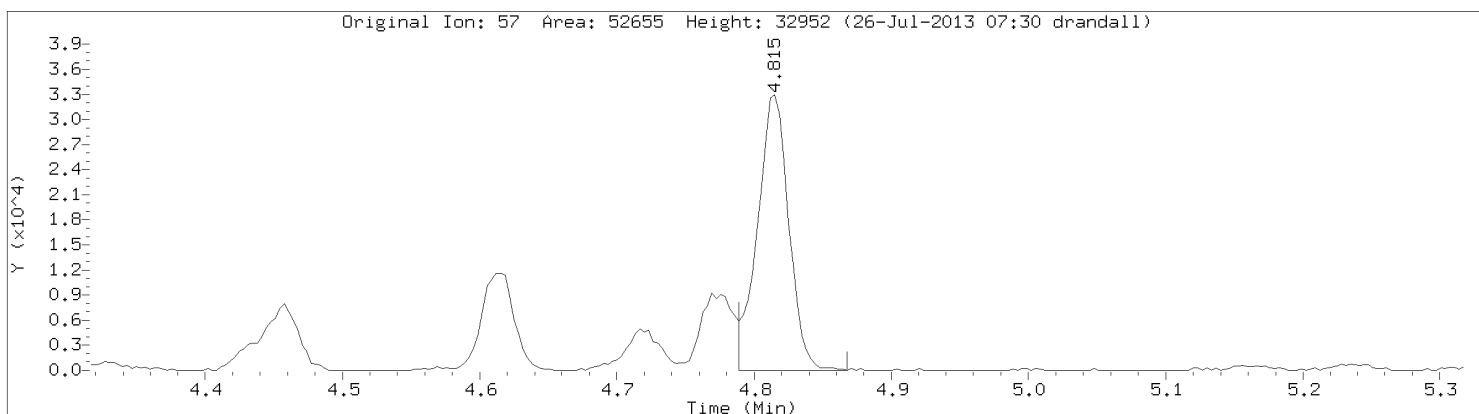
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Injection Date: 26-JUL-2013 03:33
Instrument: 10airD.i
Lab Sample ID: 10236207013

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

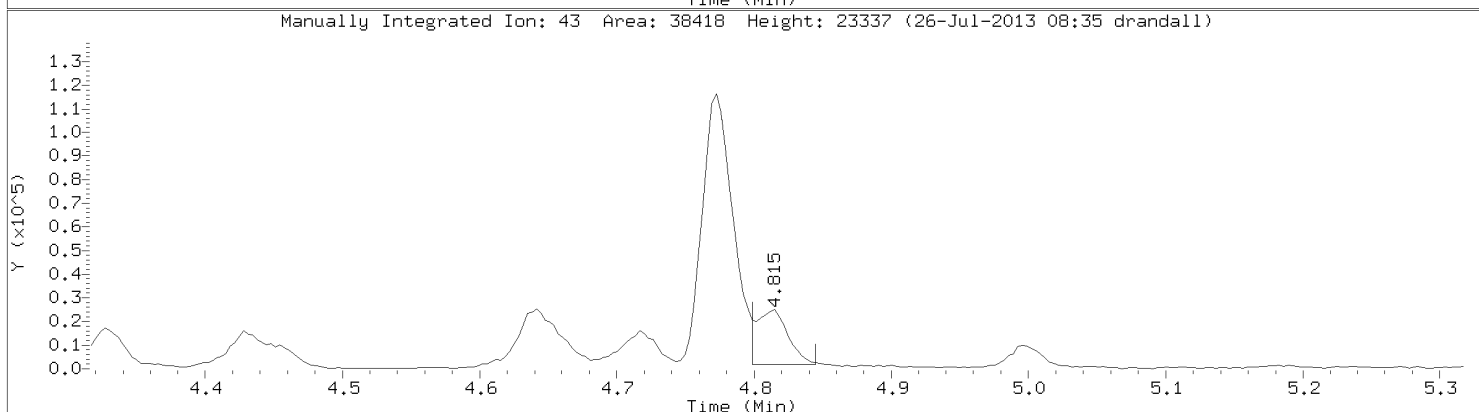
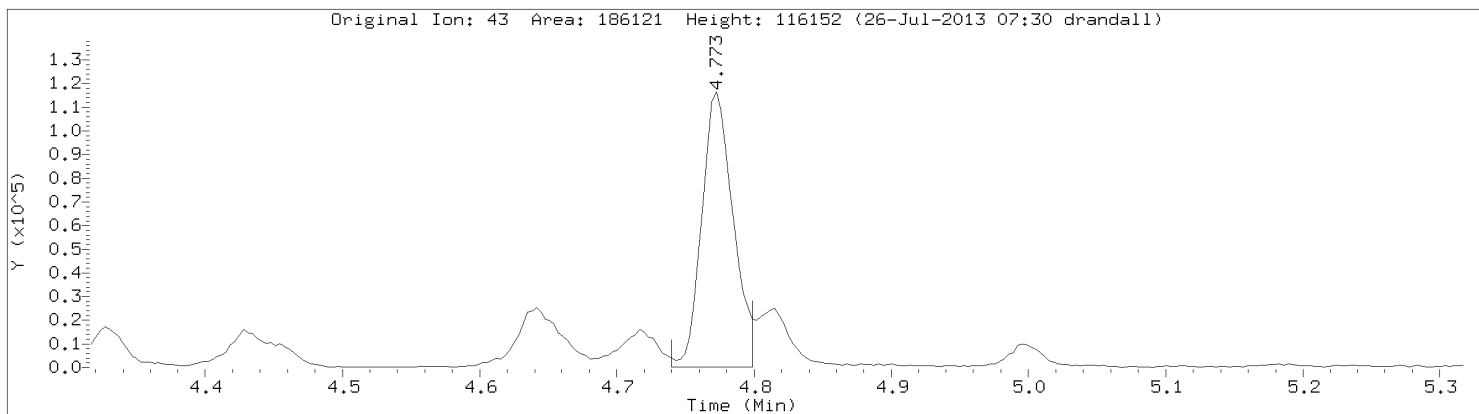


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Injection Date: 26-JUL-2013 03:33
Instrument: 10airD.i
Lab Sample ID: 10236207013

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

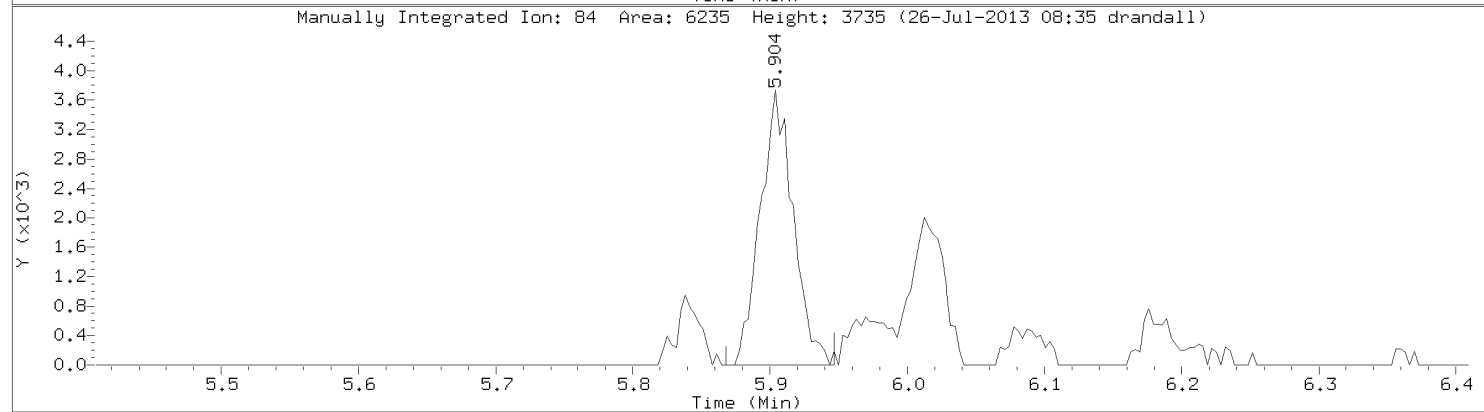
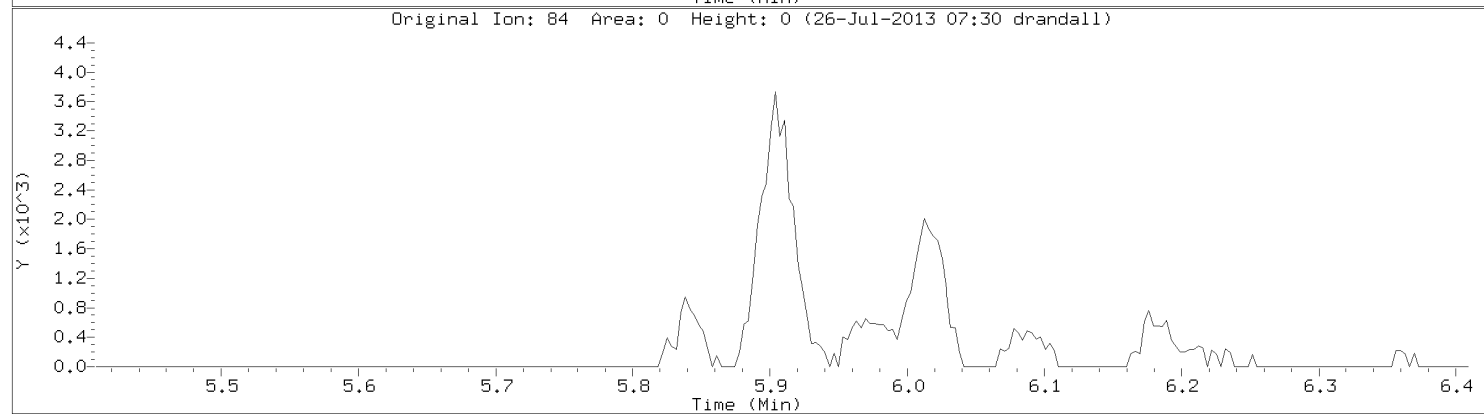
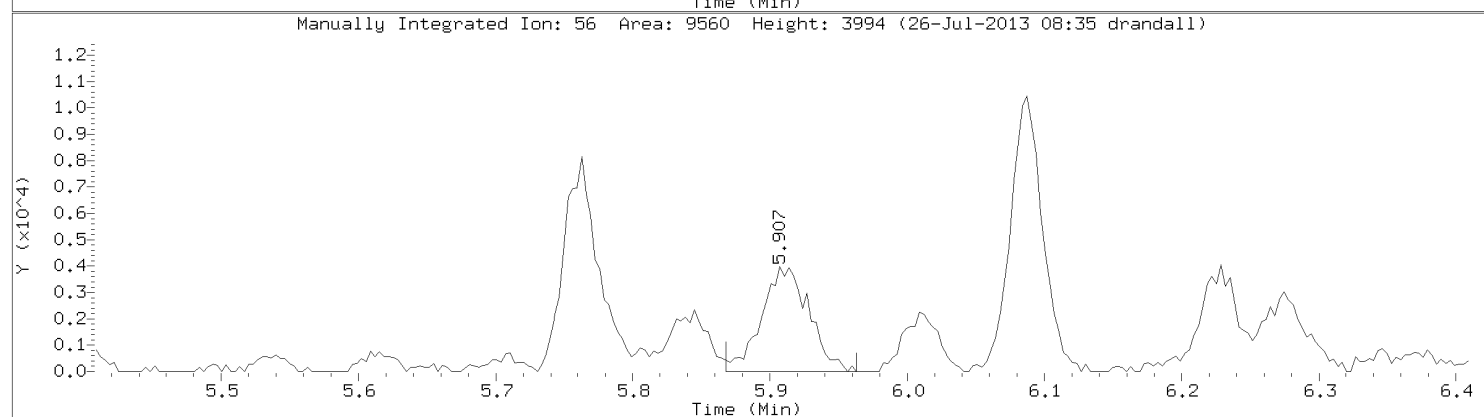
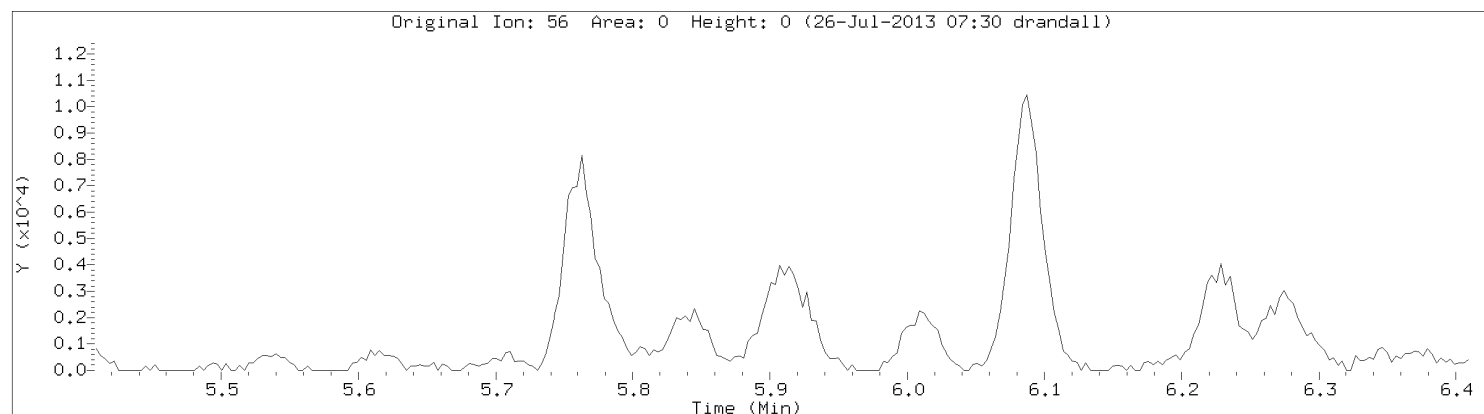


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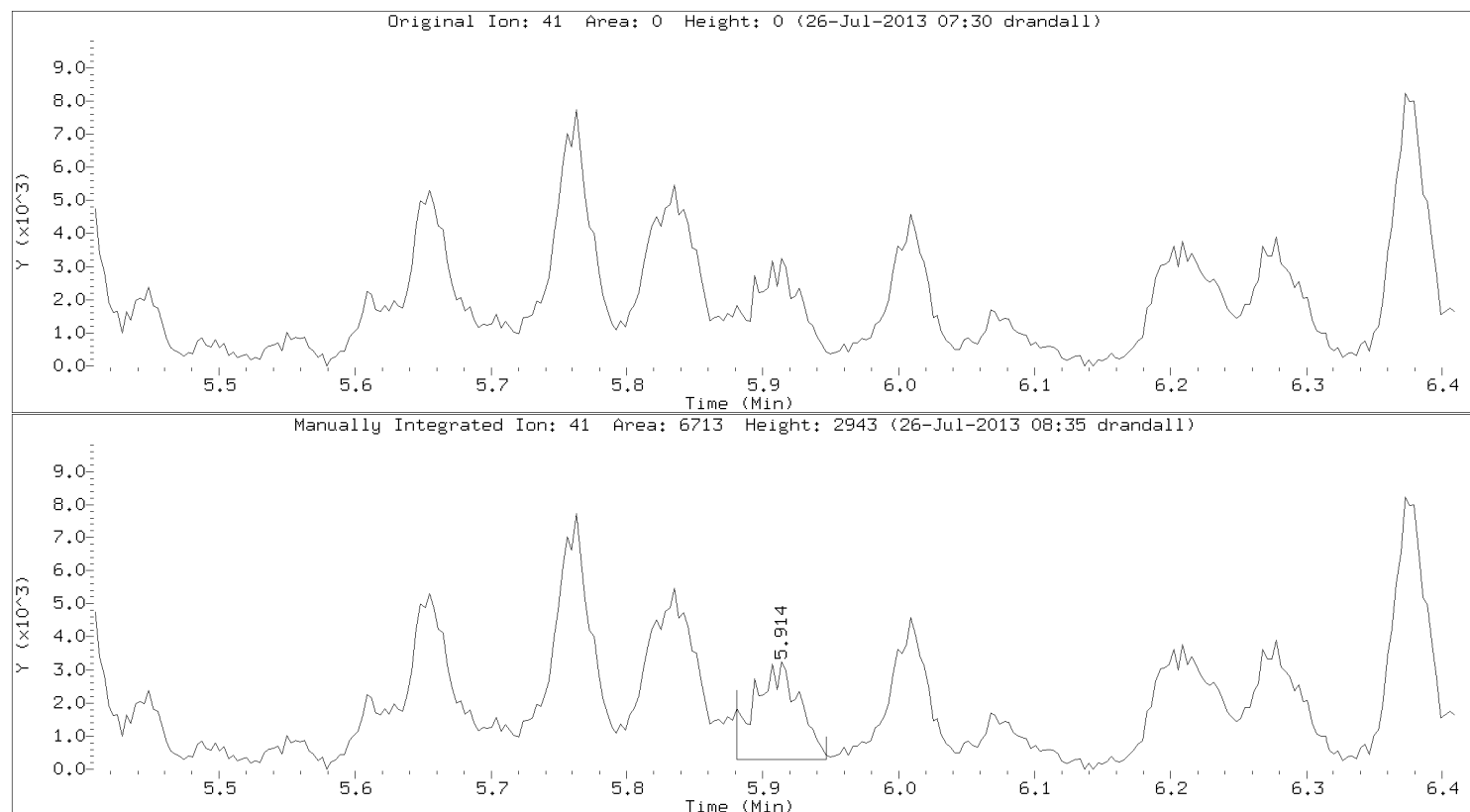


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Injection Date: 26-JUL-2013 03:33
Instrument: 10airD.i
Lab Sample ID: 10236207013

Compound: Cyclohexane
CAS Number: 110-82-7

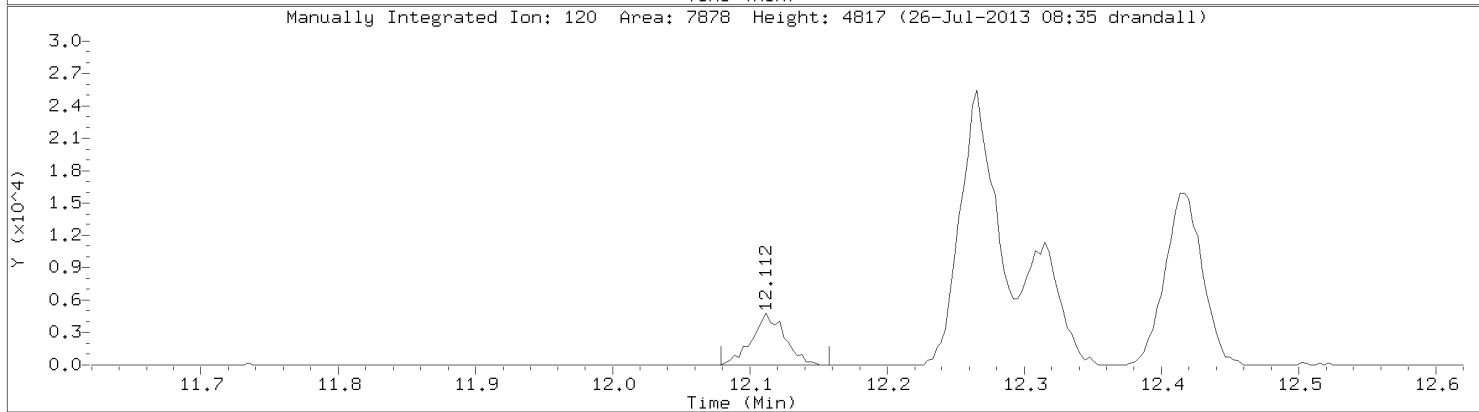
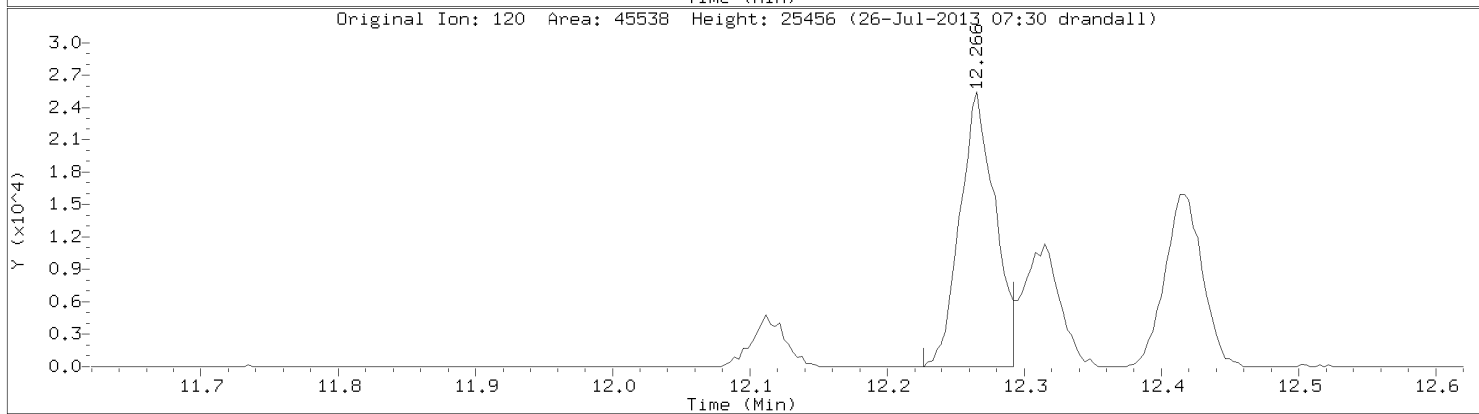
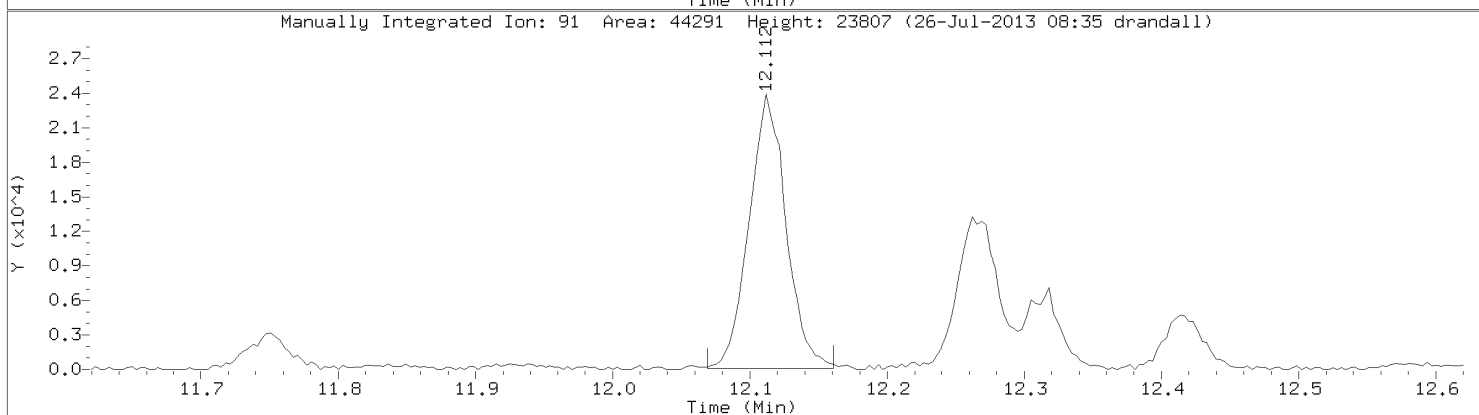
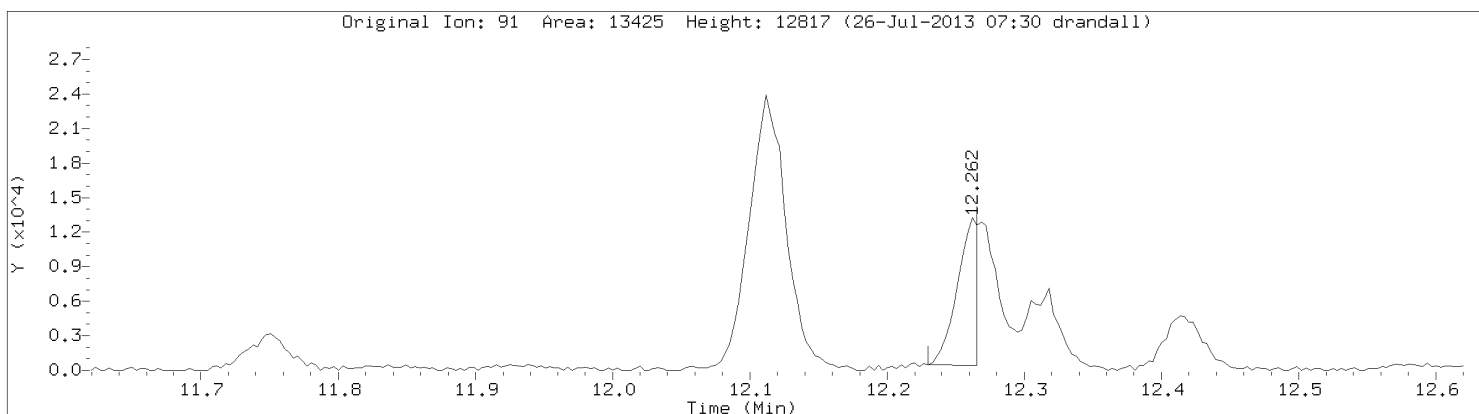


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Injection Date: 26-JUL-2013 03:33
Instrument: 10airD.i
Lab Sample ID: 10236207013



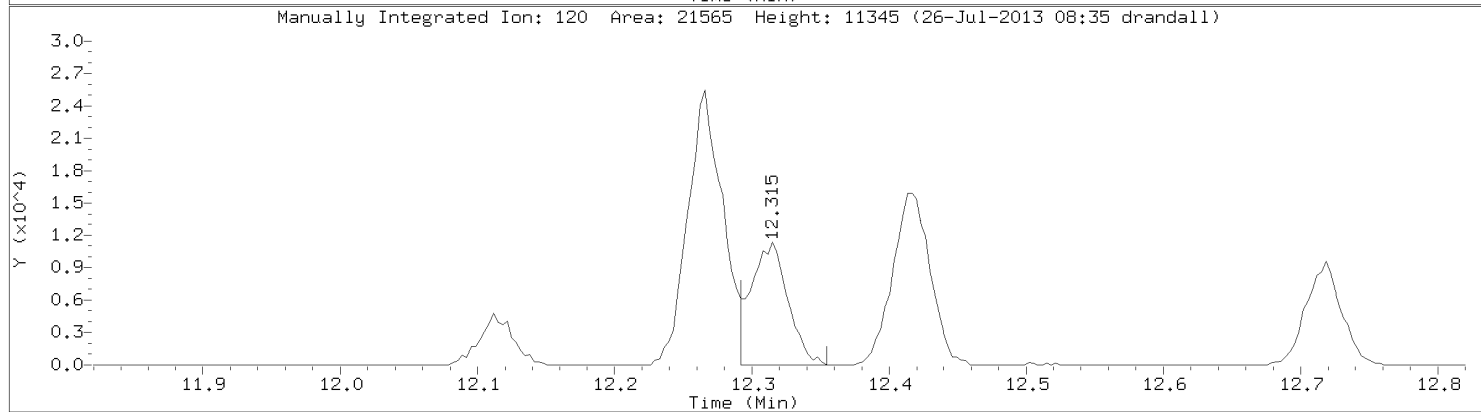
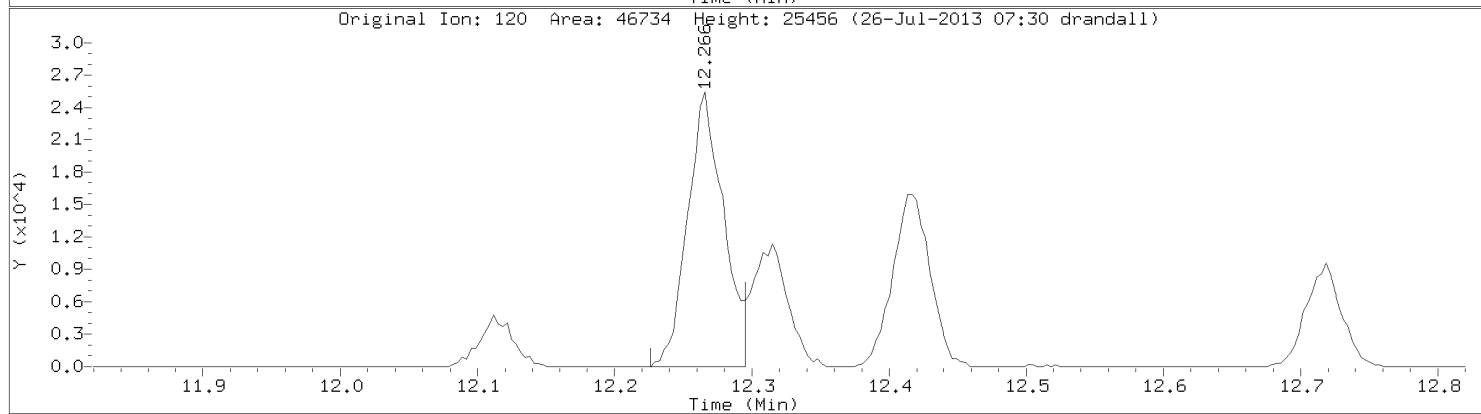
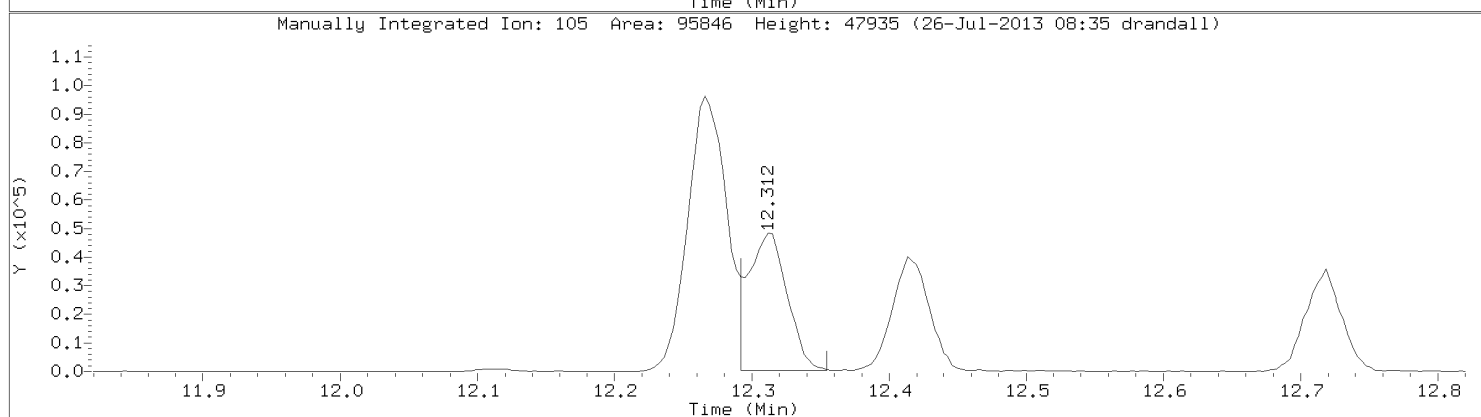
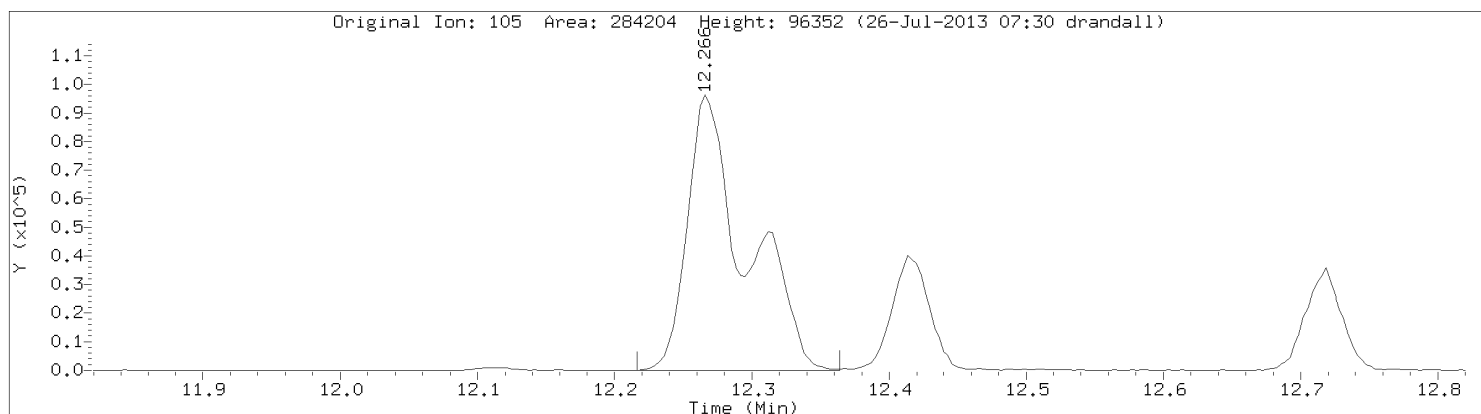
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Injection Date: 26-JUL-2013 03:33
Instrument: 10airD.i
Lab Sample ID: 10236207013

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

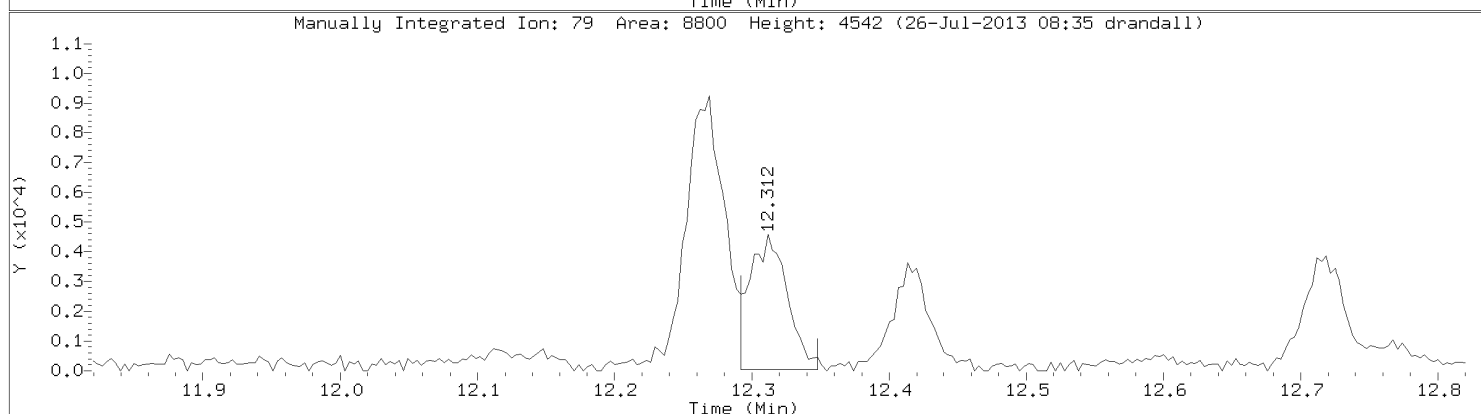
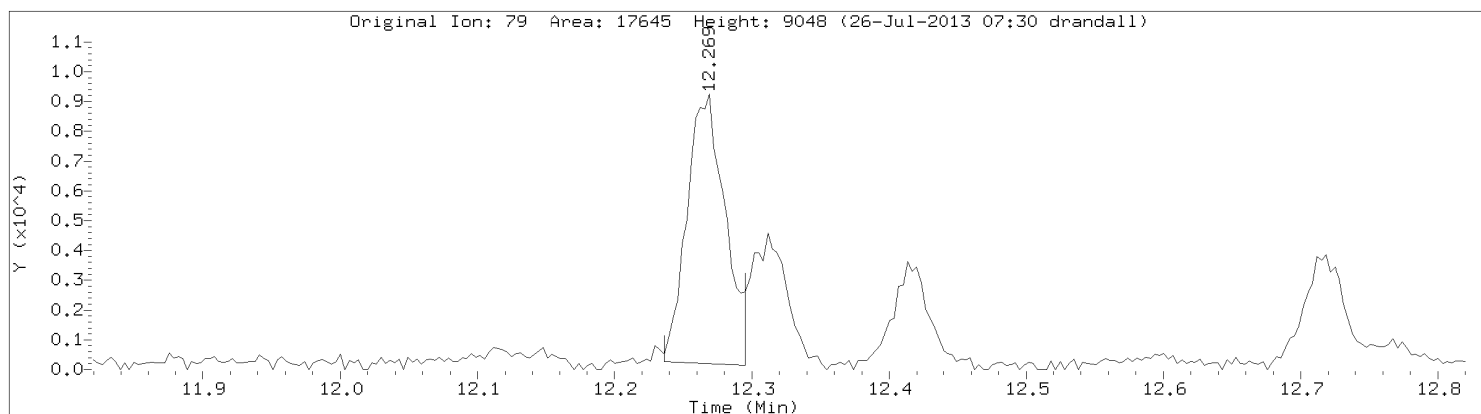


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Injection Date: 26-JUL-2013 03:33
Instrument: 10airD.i
Lab Sample ID: 10236207013

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



Data File: \\192.168.10.12\chem\10airD.i\072513.b\20630.d
Injection Date: 26-JUL-2013 03:33
Instrument: 10airD.i
Lab Sample ID: 10236207013



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072513.b\20627.d
 Lab Smp Id: 10236207014
 Inj Date : 26-JUL-2013 02:01
 Operator : DR1 Inst ID: 10airD.i
 Smp Info :
 Misc Info : 17870
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
 Meth Date : 25-Jul-2013 16:57 creindl Quant Type: ISTD
 Cal Date : 24-JUL-2013 16:39 Cal File: 20509.d
 Als bottle: 27
 Dil Factor: 1.61000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10AIRPC4

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.610	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
1 Propylene	41		2.968	2.982	(0.488)	2459798	254.689	410 (A)
2 Dichlorodifluoromethane	85		3.001	3.008	(0.493)	20932	0.22618	0.364
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		3.703	3.694	(0.608)	14396	0.14300	0.230
13 Acetone	43		3.726	3.726	(0.612)	1139743	22.5857	36.4 (Q)
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		3.978	3.989	(0.654)	26160	0.49414	0.796 (QM)
18 Freon 113	101					Compound Not Detected.		
19 Methylene chloride	49		4.100	4.094	(0.674)	10840	0.37914	0.610 (M)
20 Allyl Chloride	76					Compound Not Detected.		
21 Carbon Disulfide	76		4.231	4.224	(0.695)	116132	1.39582	2.25
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\072513.b\20627.d
 Report Date: 26-Jul-2013 08:26

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
24 Vinyl Acetate	43		Compound Not Detected.					
25 1,1-Dichloroethane	63		Compound Not Detected.					
\$ 26 Hexane-d14 (S)	66		4.700	4.700	(0.772)	312005	8.48818	8.49
27 Methyl Ethyl Ketone	72		4.772	4.779	(0.784)	107506	9.20177	14.8
28 n-Hexane	57		4.818	4.818	(0.792)	181132	5.42068	8.73 (QM)
29 cis-1,2-Dichloroethene	96		Compound Not Detected.					
30 Ethyl Acetate	43		Compound Not Detected.					
31 Chloroform	83		Compound Not Detected.					
32 Tetrahydrofuran	42		Compound Not Detected.					
33 1,1,1-Trichloroethane	97		Compound Not Detected.					
34 1,2-Dichloroethane	62		Compound Not Detected.					
35 Benzene	78		5.880	5.887	(0.966)	223826	3.53580	5.69 (M)
36 Carbon tetrachloride	117		Compound Not Detected.					
37 Cyclohexane	56		5.917	5.910	(0.972)	31353	1.61856	2.60 (QM)
* 38 1,4-Difluorobenzene	114		6.087	6.094	(1.000)	761194	10.0000	
39 2,2,4-Trimethylpentane	57		6.274	6.271	(1.031)	18923	0.62590	1.01 (QM)
40 Heptane	43		6.435	6.442	(1.057)	49278	2.26204	3.64
41 1,2-Dichloropropane	63		Compound Not Detected.					
42 Trichloroethene	130		Compound Not Detected.					
43 1,4-Dioxane	88		Compound Not Detected.					
44 Bromodichloromethane	83		Compound Not Detected.					
45 Methyl Isobutyl Ketone	43		Compound Not Detected.					
46 cis-1,3-Dichloropropene	75		Compound Not Detected.					
47 trans-1,3-Dichloropropene	75		Compound Not Detected.					
\$ 48 Toluene-d8 (S)	98		7.841	7.848	(1.288)	520132	9.78400	9.78
49 Toluene	91		7.930	7.940	(1.303)	530403	6.10649	9.83
50 1,1,2-Trichloroethane	97		Compound Not Detected.					
51 Methyl Butyl Ketone	43		Compound Not Detected.					
52 Dibromochloromethane	129		Compound Not Detected.					
53 1,2-Dibromoethane	107		Compound Not Detected.					
54 Tetrachloroethene	166		8.914	8.918	(0.920)	12669	0.65846	1.06
* 55 Chlorobenzene - d5	117		9.684	9.691	(1.000)	284407	10.0000	
56 Chlorobenzene	112		Compound Not Detected.					
57 Ethyl Benzene	91		10.032	10.039	(1.036)	150242	1.65231	2.66
58 m&p-Xylene	91		10.199	10.213	(1.053)	427536	5.07761	8.17
59 Bromoform	173		Compound Not Detected.					
60 Styrene	104		10.698	10.708	(1.105)	31433	0.99557	1.60
61 o-Xylene	91		10.773	10.783	(1.112)	156897	1.90057	3.06
62 1,1,2,2-Tetrachloroethane	83		Compound Not Detected.					
63 Isopropylbenzene	105		Compound Not Detected.					
64 N-Propylbenzene	91		12.114	12.121	(1.251)	52824	0.67747	1.09 (M)
65 4-Ethyltoluene	105		12.314	12.321	(1.272)	66456	0.94128	1.52 (M)
66 1,3,5-Trimethylbenzene	105		12.416	12.426	(1.282)	39928	0.71893	1.16 (M)
67 1,2,4-Trimethylbenzene	105		13.013	13.020	(1.344)	176346	2.29242	3.69
68 1,3-Dichlorobenzene	146		Compound Not Detected.					
69 Sec- Butylbenzene	105		Compound Not Detected.					
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.449	13.459	(1.389)	131786	11.4797	11.5
71 Benzyl Chloride	91		Compound Not Detected.					
72 1,4-Dichlorobenzene	146		Compound Not Detected.					
73 1,2-Dichlorobenzene	146		Compound Not Detected.					
74 N-Butylbenzene	91		Compound Not Detected.					
75 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
76 Naphthalene	128		16.860	16.860	(1.741)	79190	2.15418	3.47
77 Hexachlorobutadiene	225		Compound Not Detected.					

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20627.d
Report Date: 26-Jul-2013 08:26

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
	MASS					ON-COLUMN	FINAL
=====	====	====	=====	=====	=====	=====	

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\072513.b\20627.d
Report Date: 26-Jul-2013 08:26

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 20627.d
Lab Smp Id: 10236207014
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
Misc Info: 17870

Calibration Date: 25-JUL-2013
Calibration Time: 13:08

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	761194	31.29
55 Chlorobenzene - d	221404	132842	309966	284407	28.46

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	-0.05
55 Chlorobenzene - d	9.69	9.36	10.02	9.68	-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\072513.b\20627.D

Date : 26-JUL-2013 02:01

Client ID:

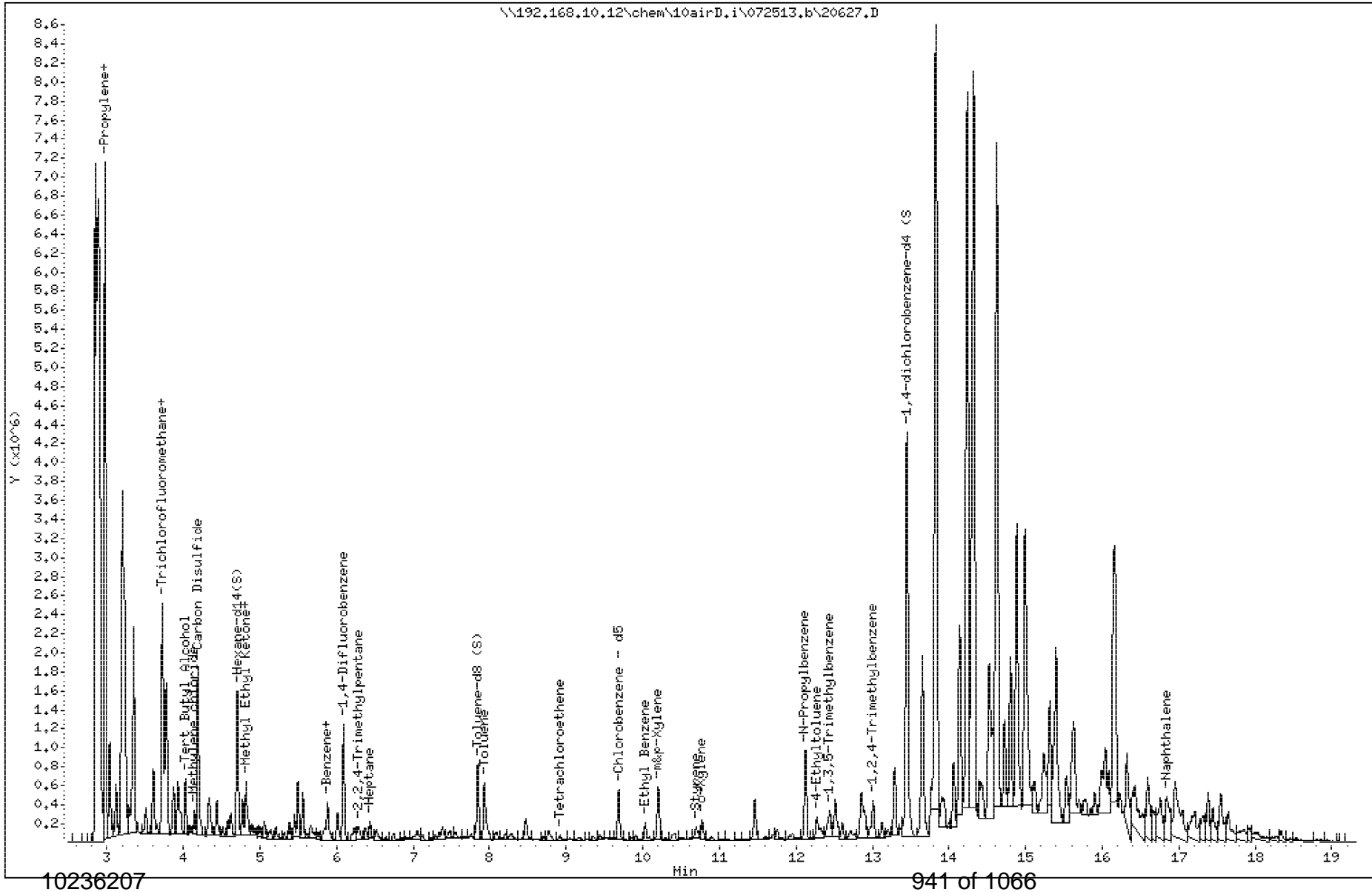
Instrument: 10airD.i

Sample Info:

Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20627.D

Date : 26-JUL-2013 02:01

Client ID:

Instrument: 10airD.i

Sample Info:

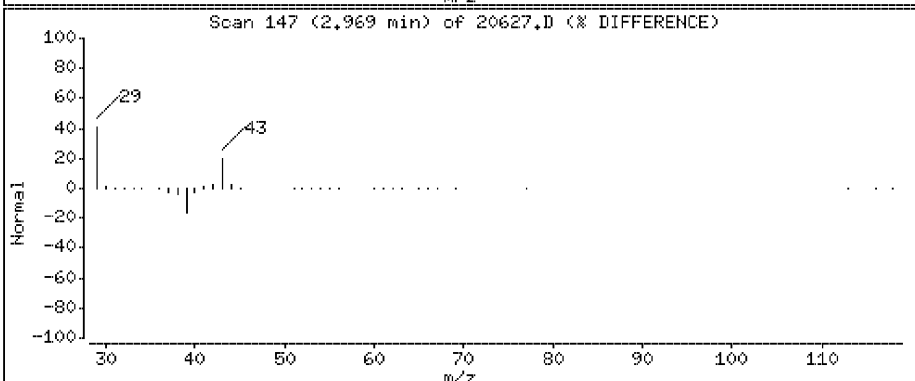
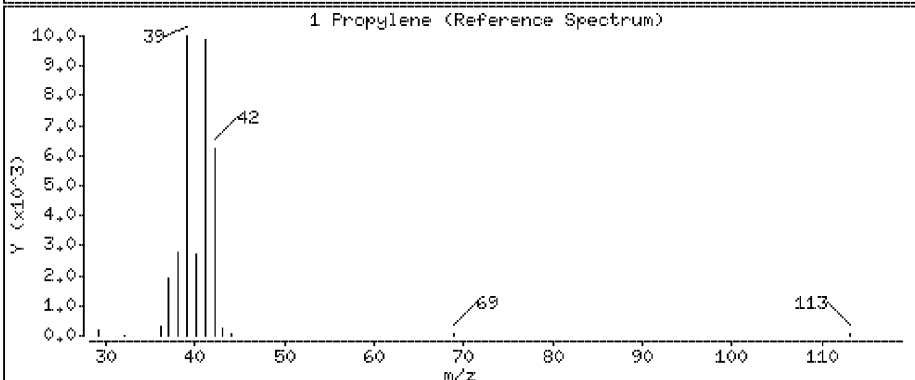
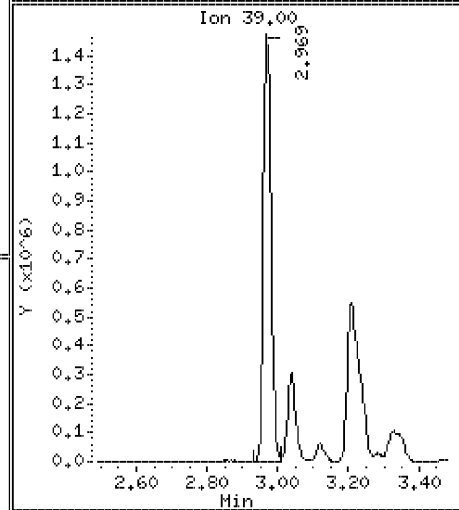
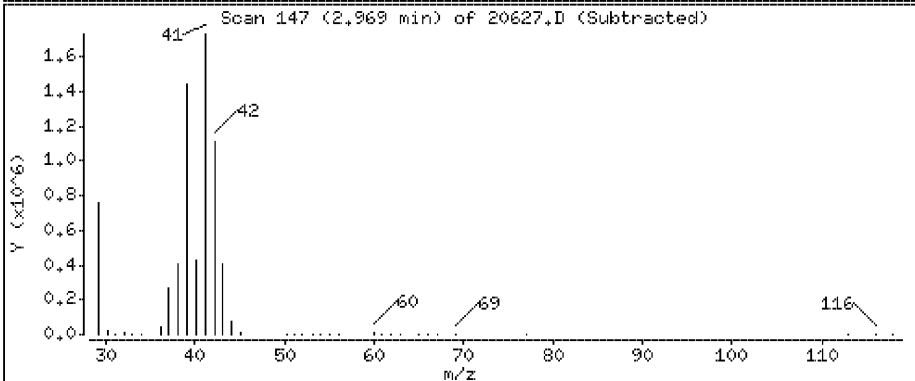
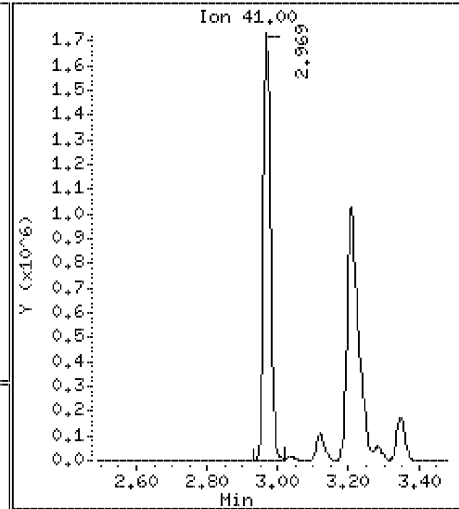
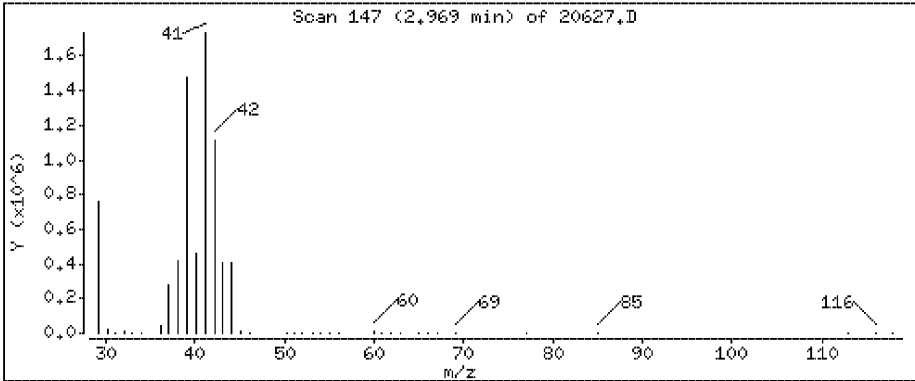
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

1 Propylene

Concentration: 410 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20627.D

Date : 26-JUL-2013 02:01

Client ID:

Instrument: 10airD.i

Sample Info:

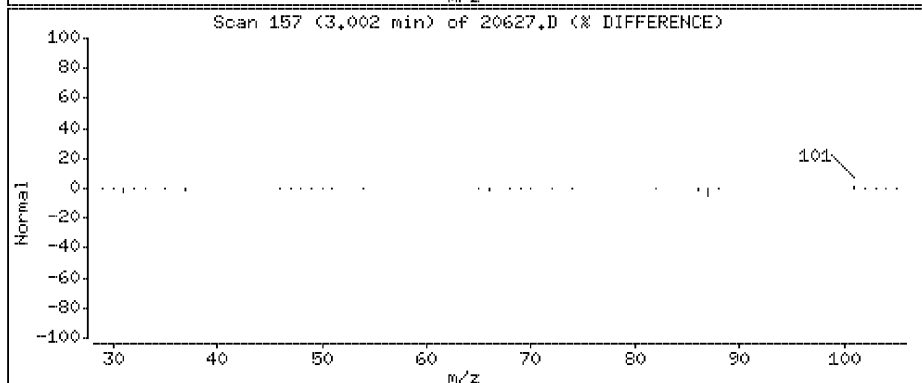
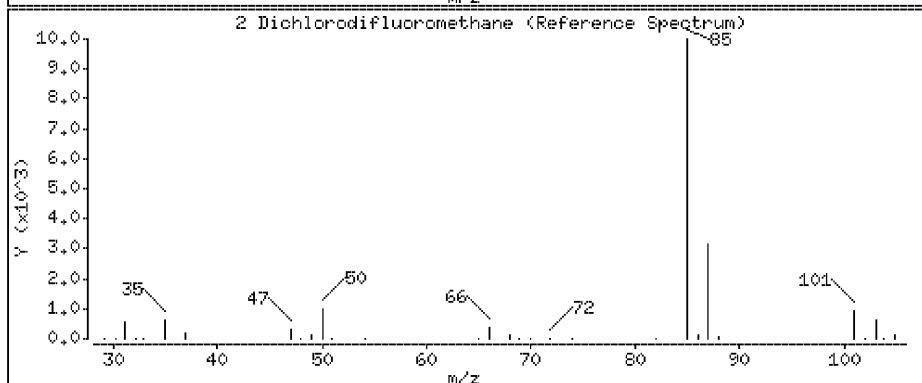
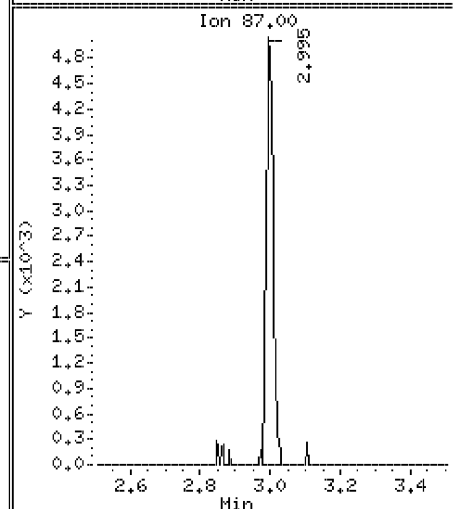
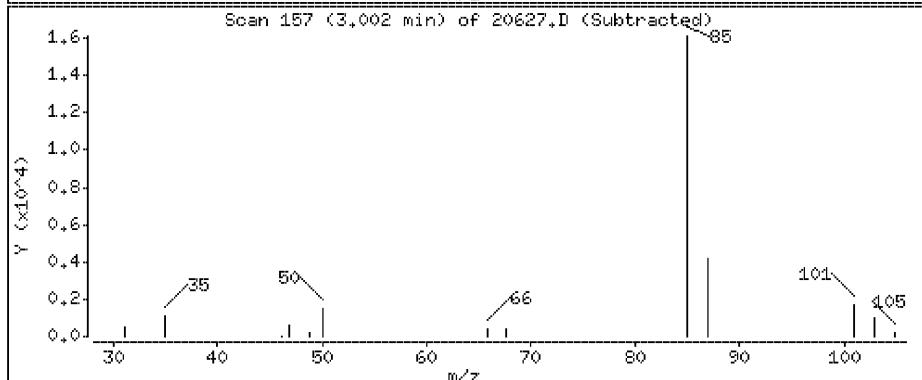
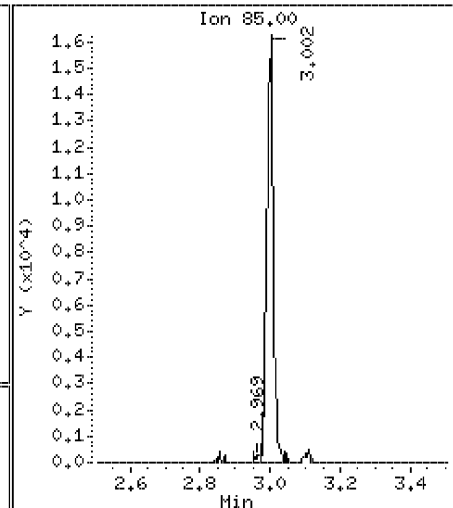
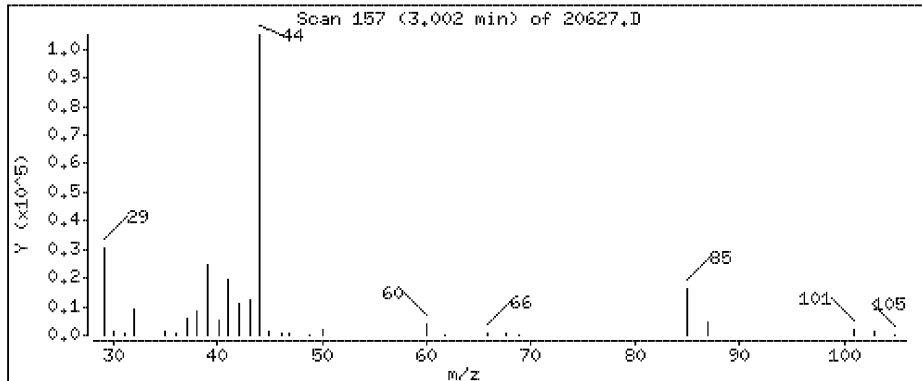
Operator: DR1

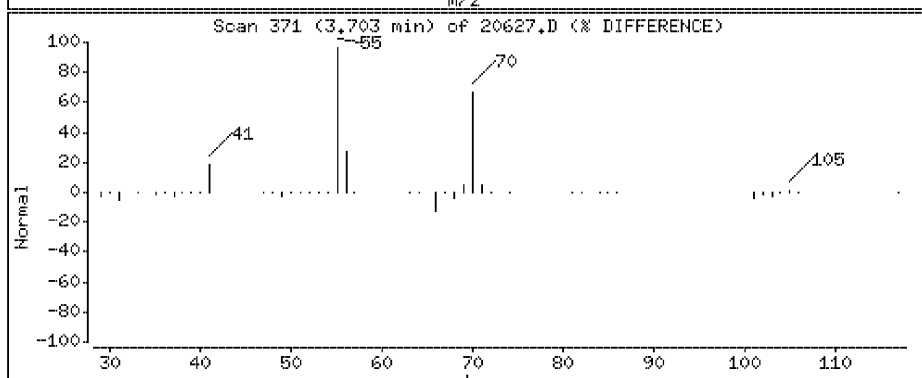
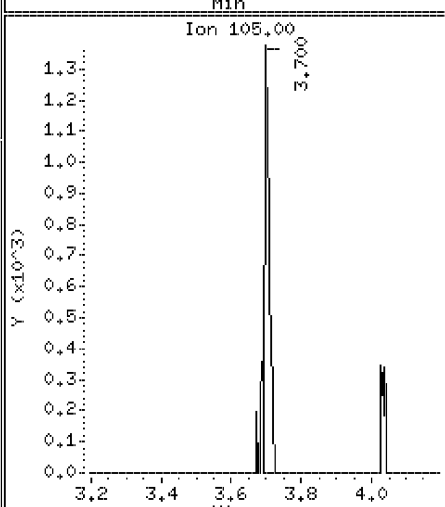
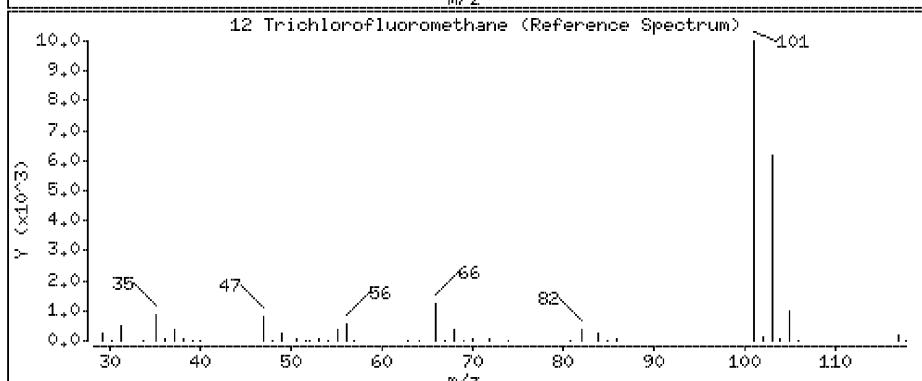
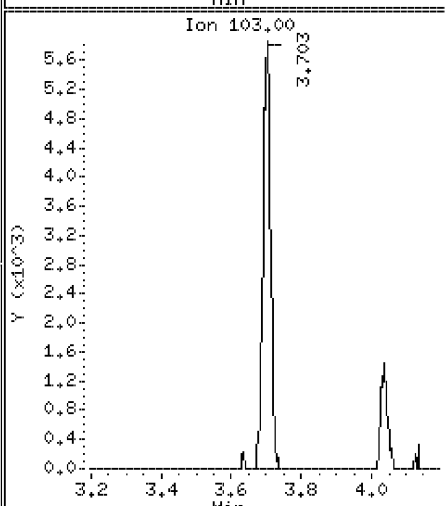
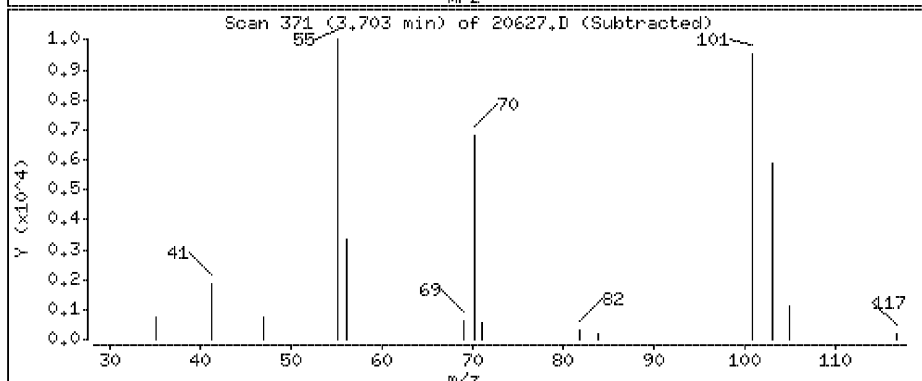
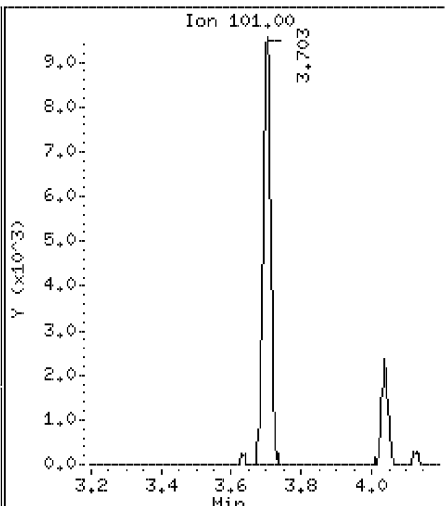
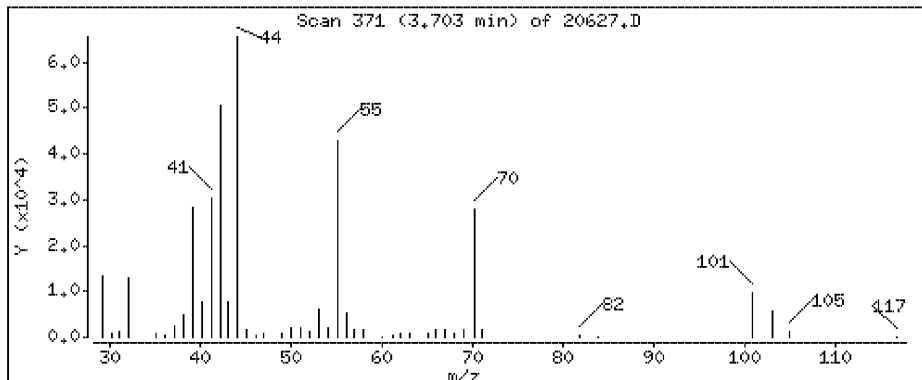
Column phase: J&W DB-5

Column diameter: 0.32

2 Dichlorodifluoromethane

Concentration: 0.364 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20627.D

Date : 26-JUL-2013 02:01

Client ID:

Instrument: 10airD.i

Sample Info:

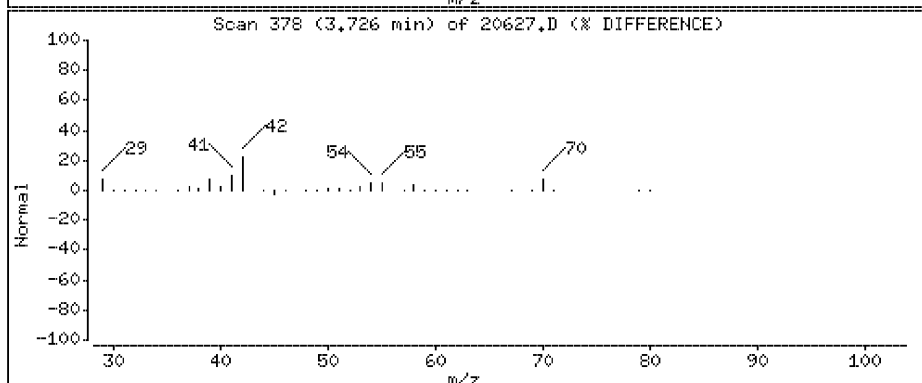
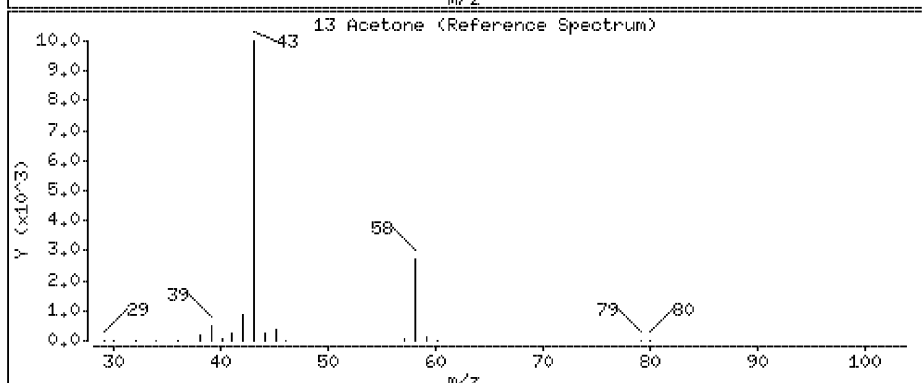
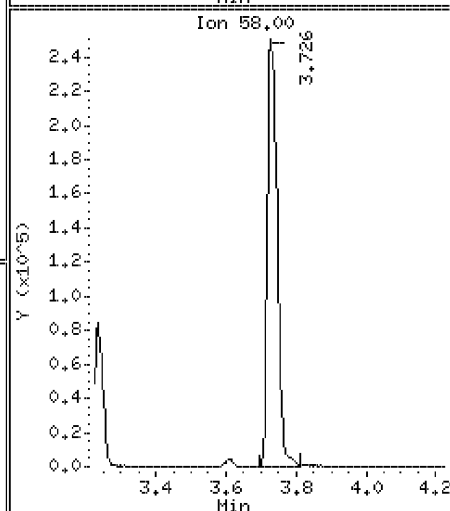
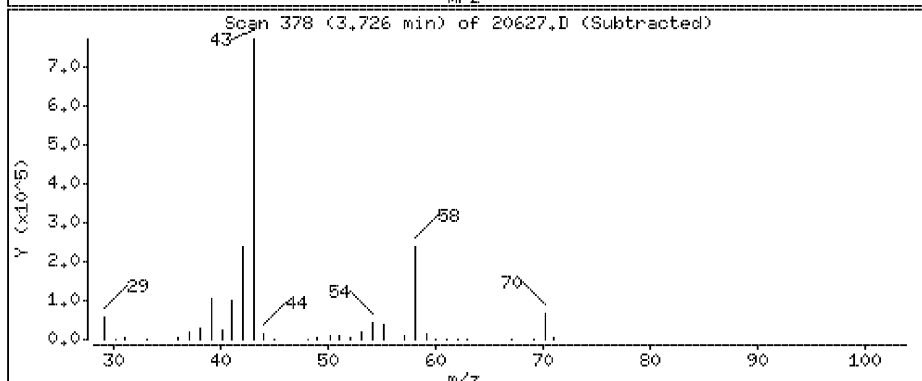
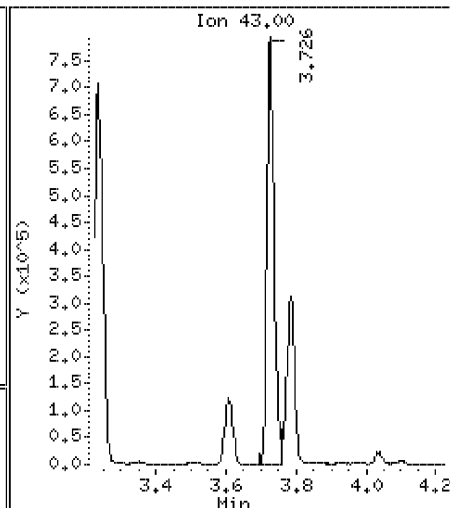
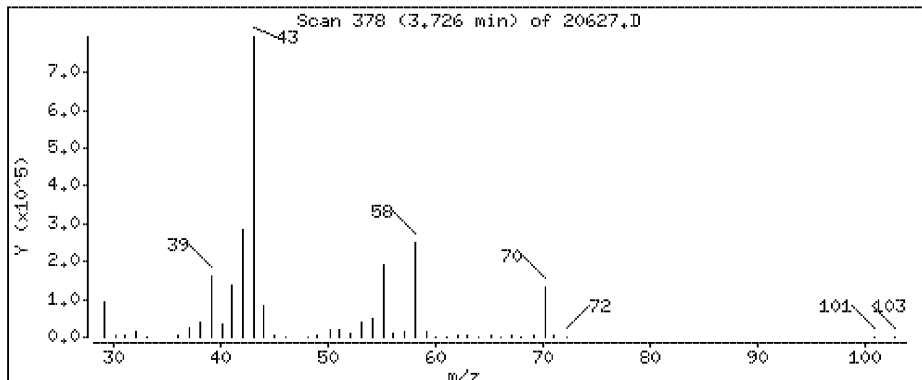
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

13 Acetone

Concentration: 36.4 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20627.D

Date : 26-JUL-2013 02:01

Client ID:

Instrument: 10airD.i

Sample Info:

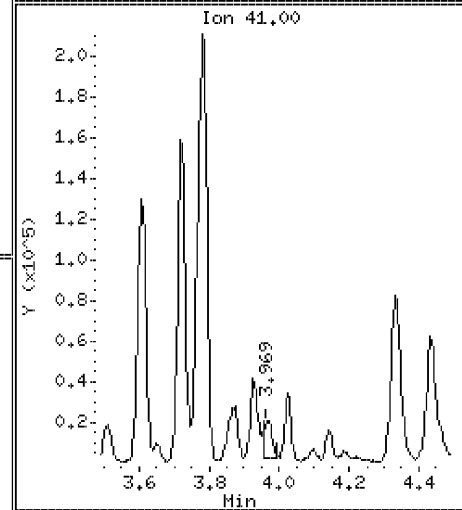
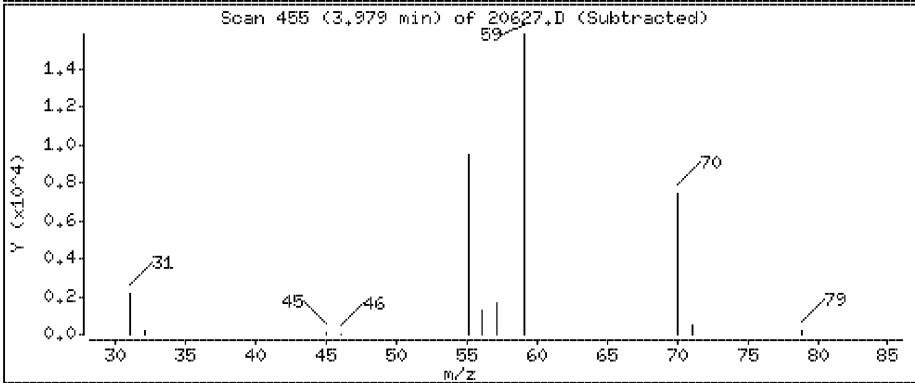
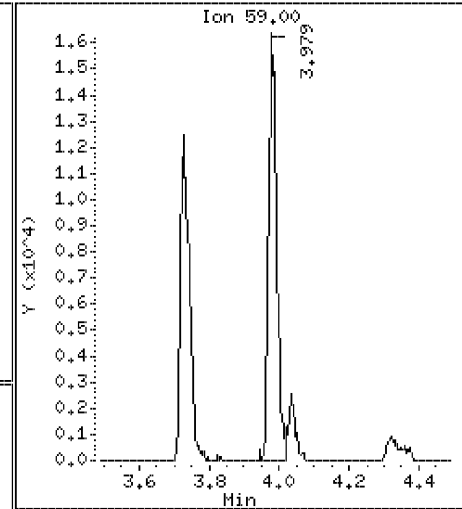
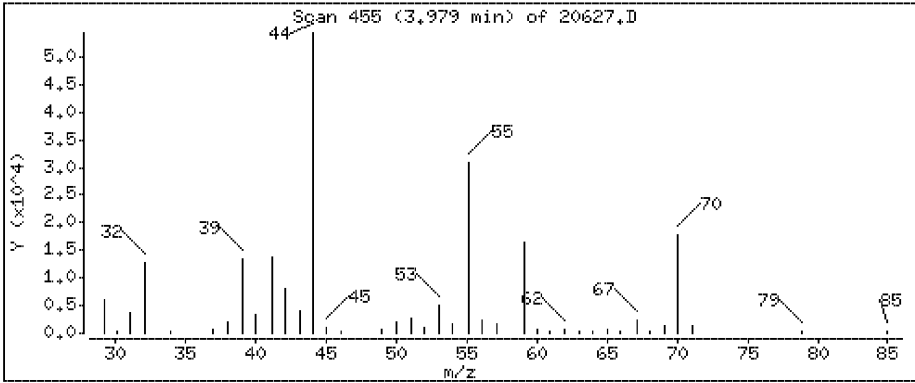
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

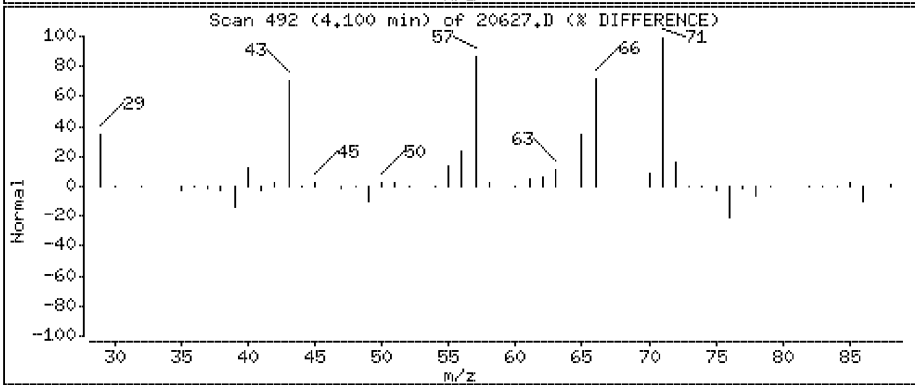
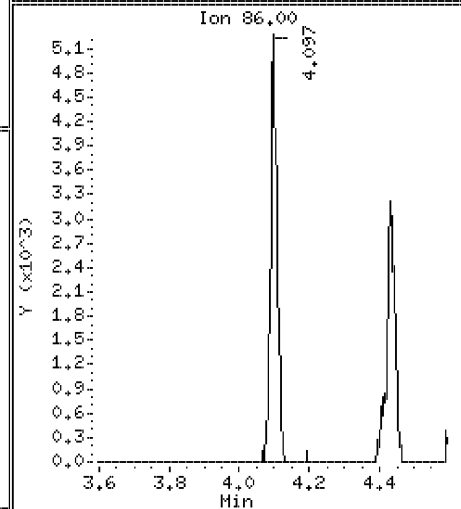
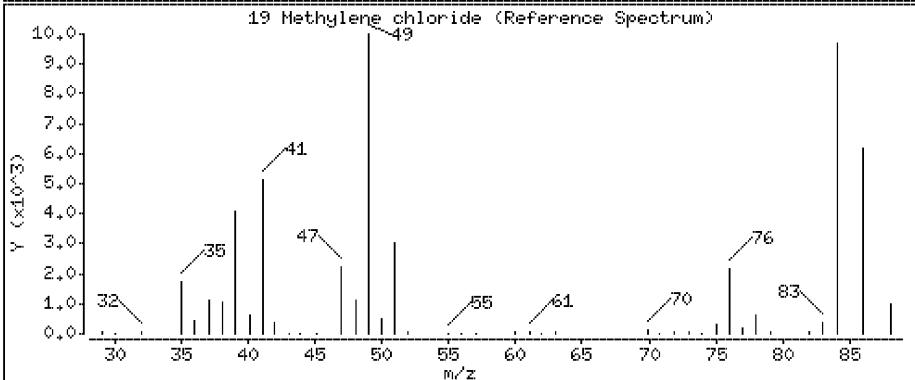
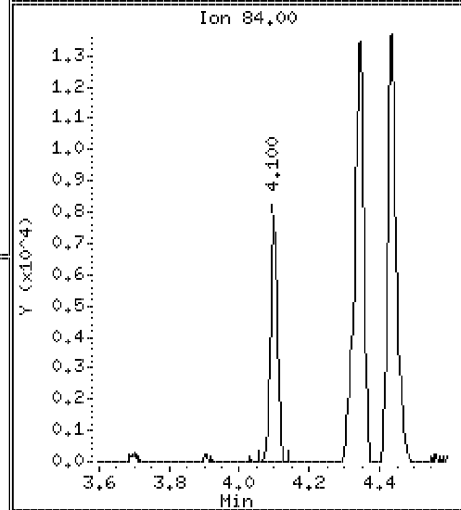
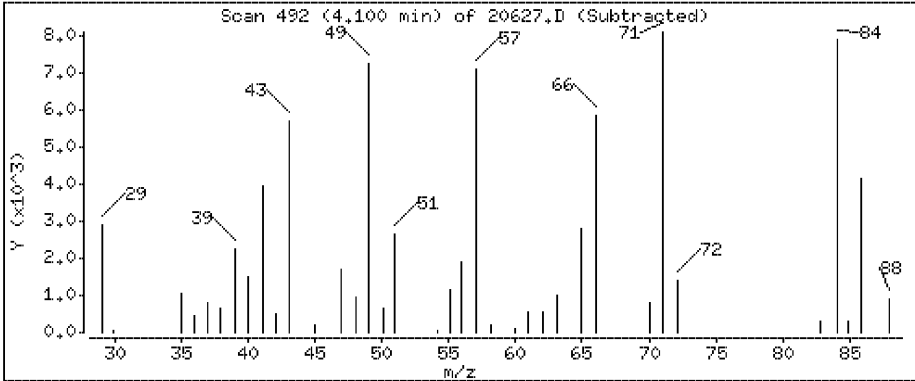
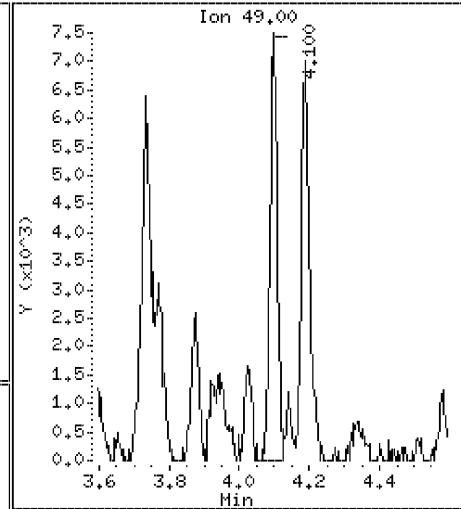
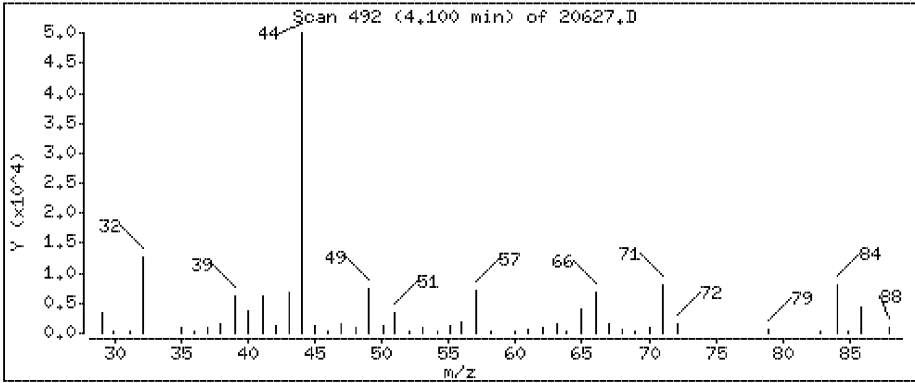
17 Tert Butyl Alcohol

Concentration: 0.796 ppbv



19 Methylene chloride

Concentration: 0.610 ppbv



Data File: \\192.168.10.12\chem\10airD,i\072513,b\20627.D

Date : 26-JUL-2013 02:01

Client ID:

Instrument: 10airD,i

Sample Info:

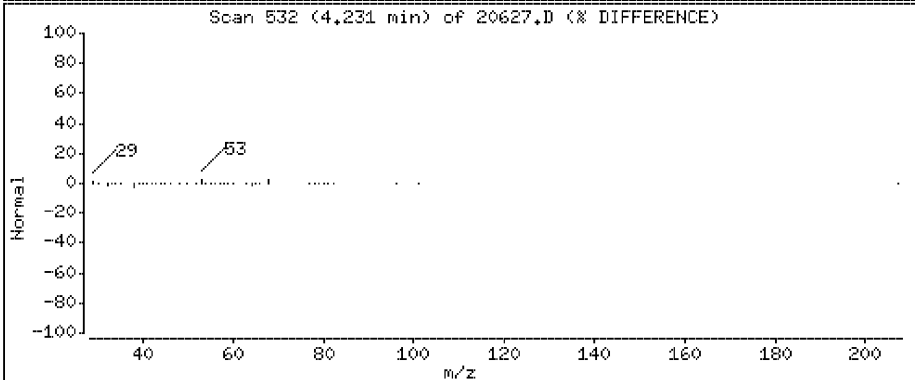
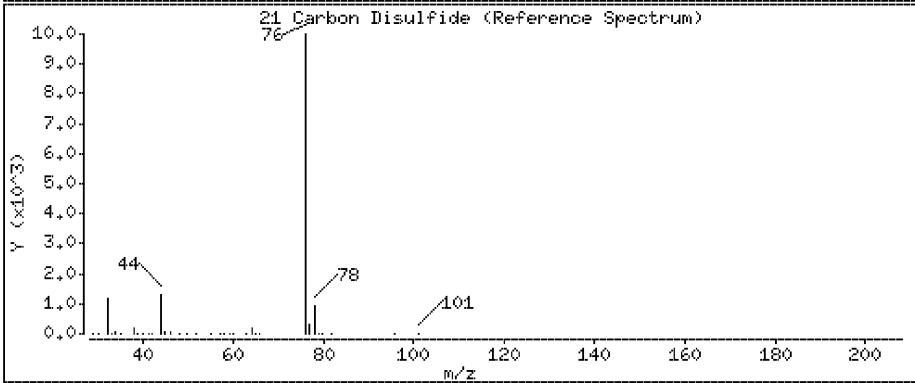
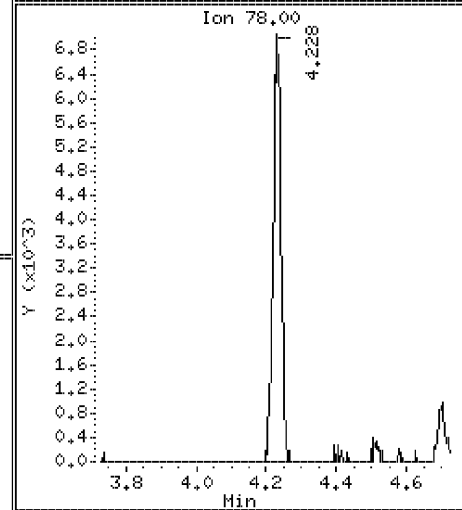
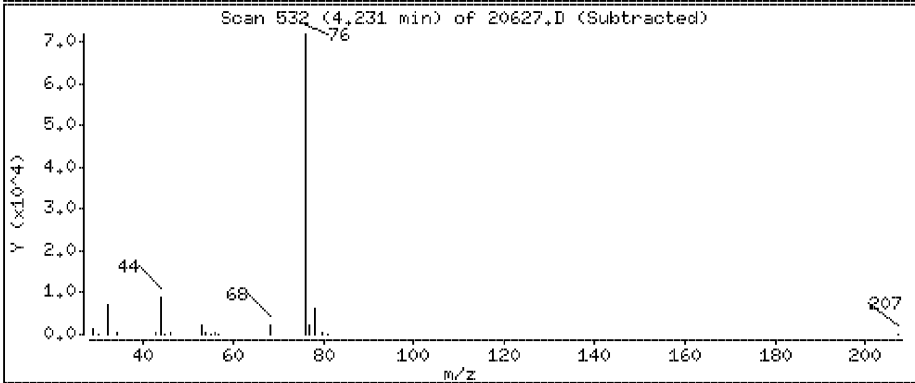
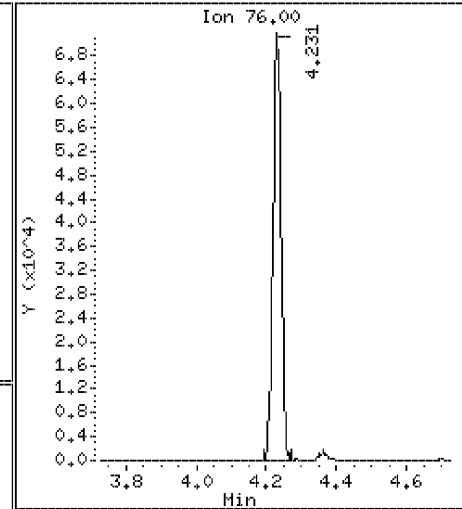
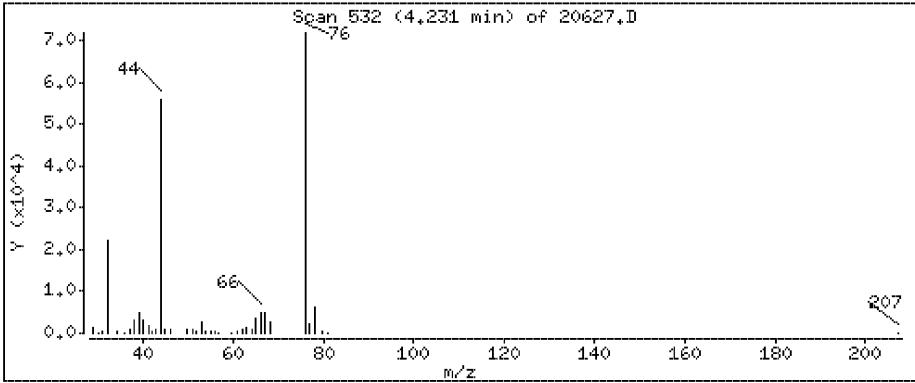
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

21 Carbon Disulfide

Concentration: 2,25 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20627.D

Date : 26-JUL-2013 02:01

Client ID:

Instrument: 10airD.i

Sample Info:

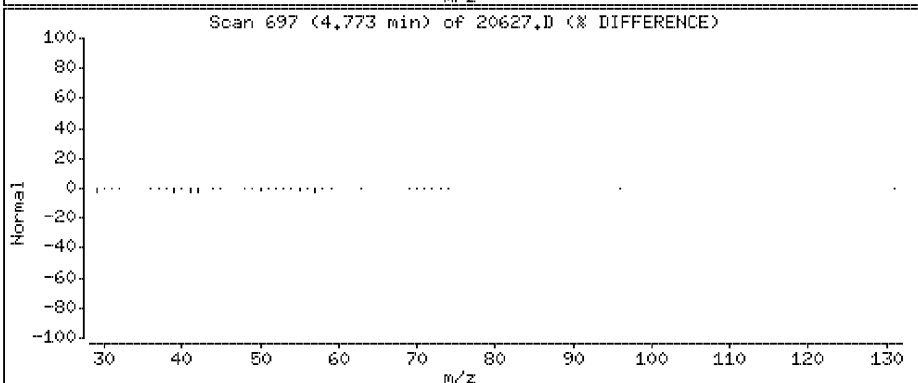
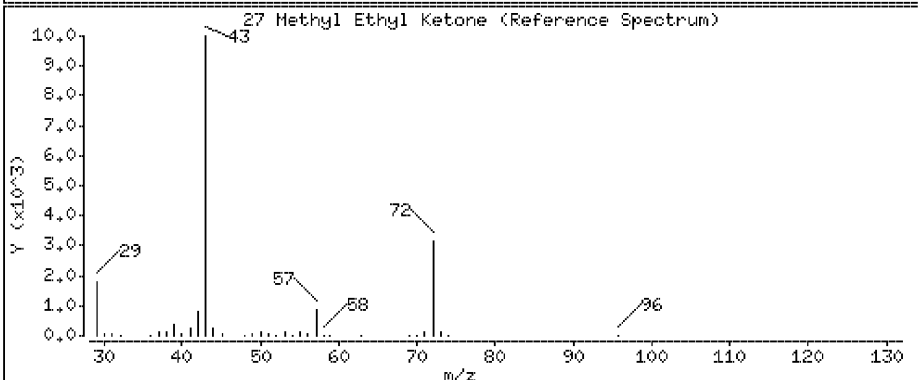
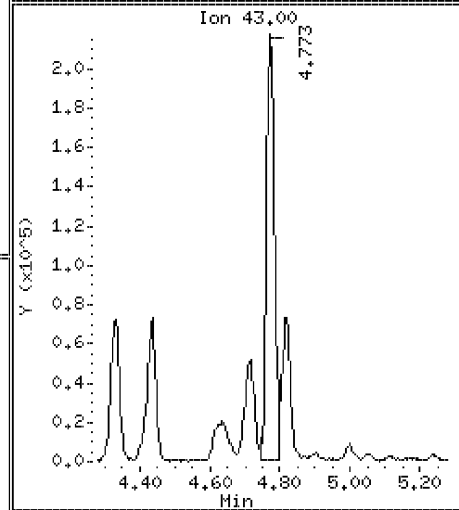
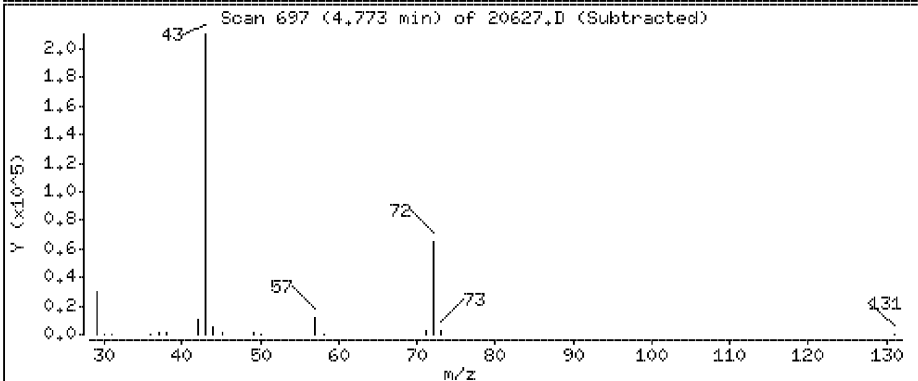
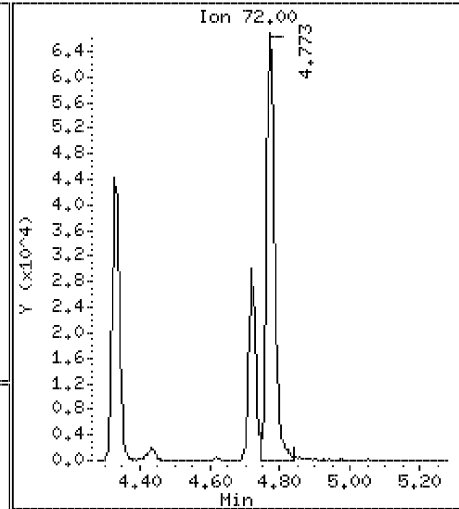
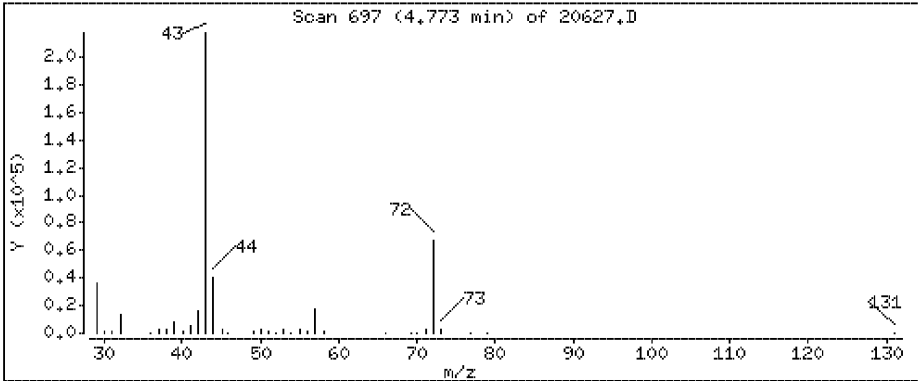
Operator: DR1

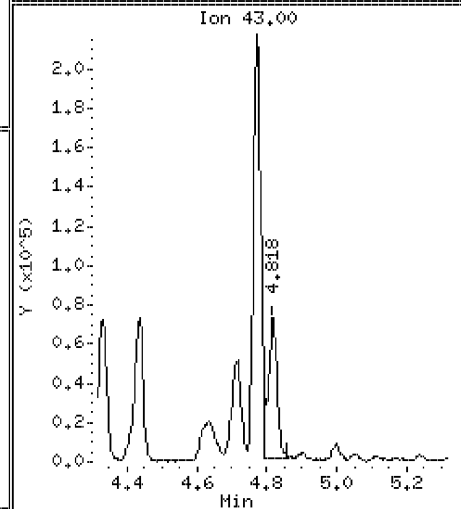
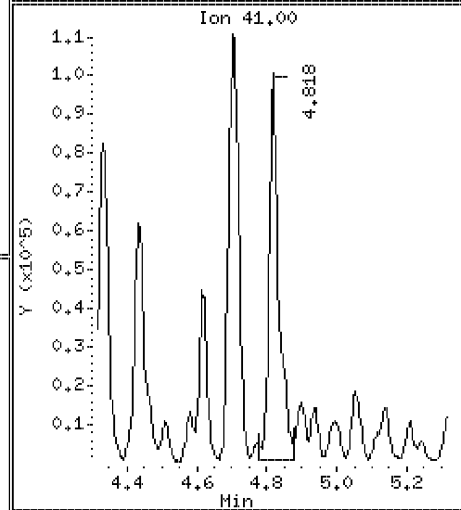
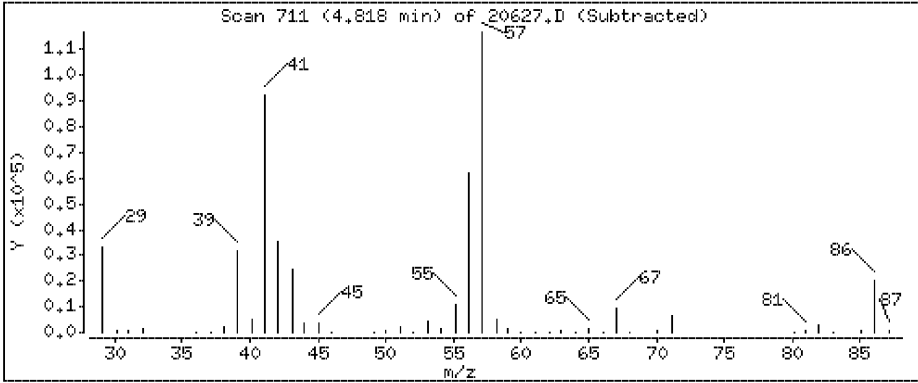
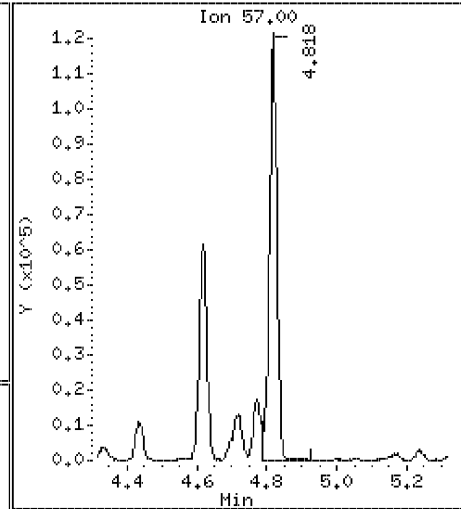
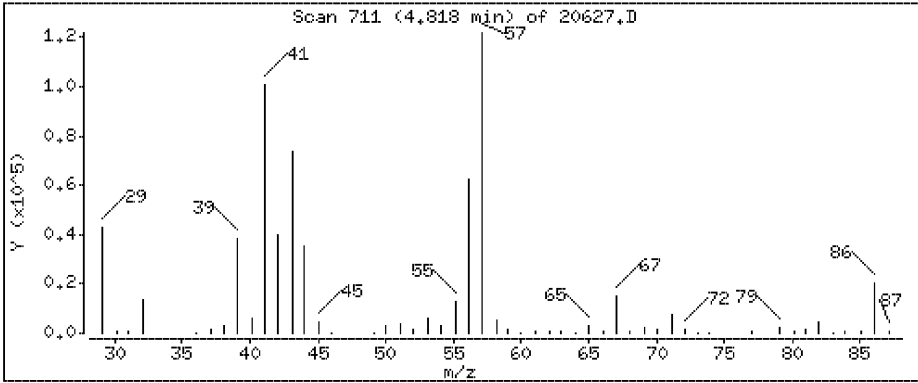
Column phase: J&W DB-5

Column diameter: 0.32

27 Methyl Ethyl Ketone

Concentration: 14.8 ppbv





Data File: \\192.168.10.12\chem\10airD.i\072513,b\20627.D

Date : 26-JUL-2013 02:01

Client ID:

Instrument: 10airD.i

Sample Info:

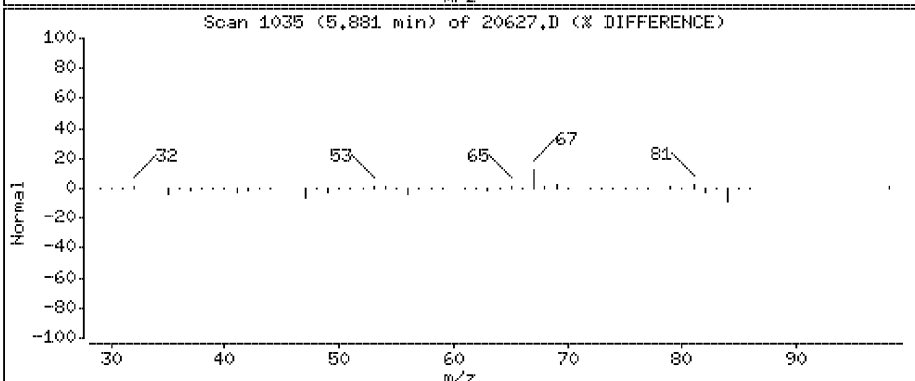
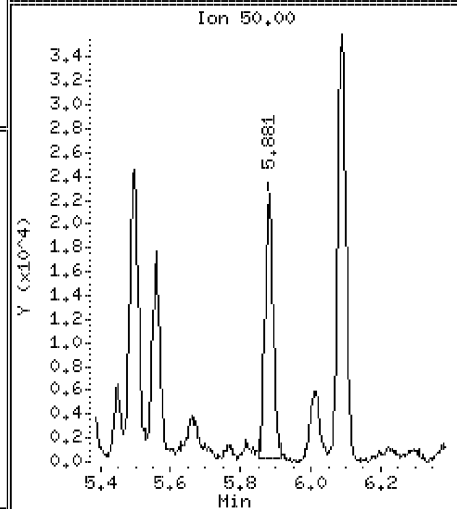
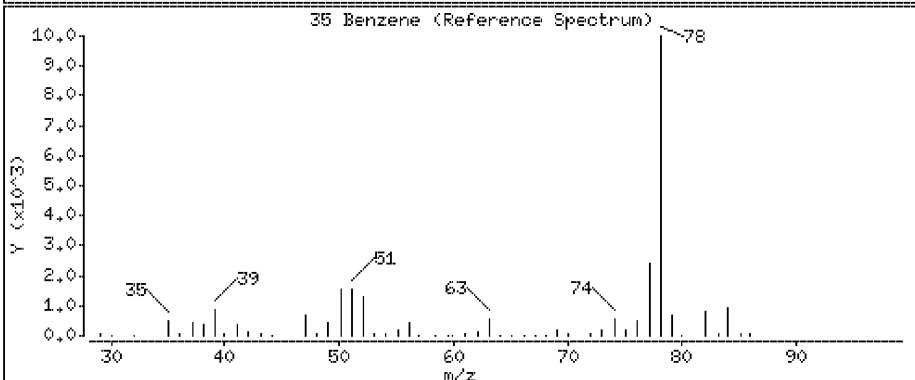
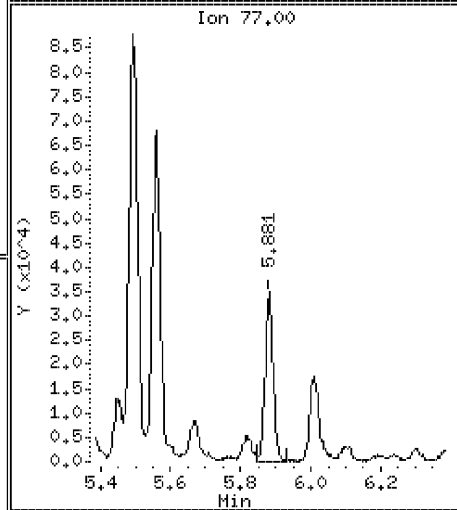
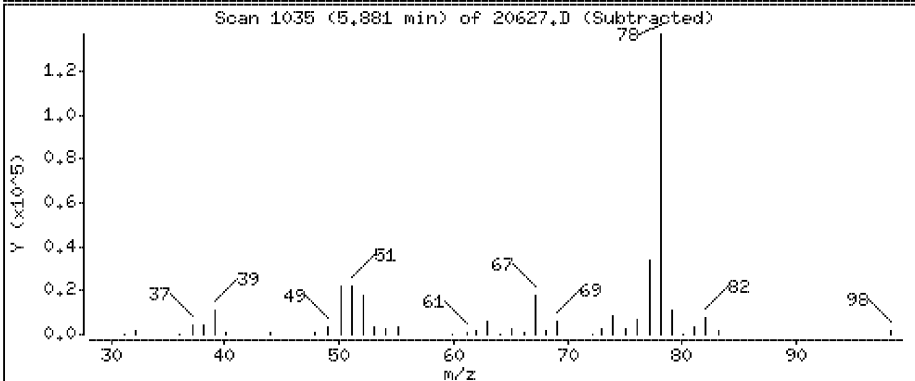
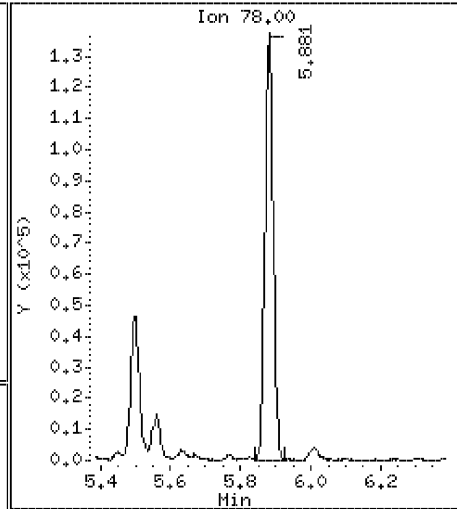
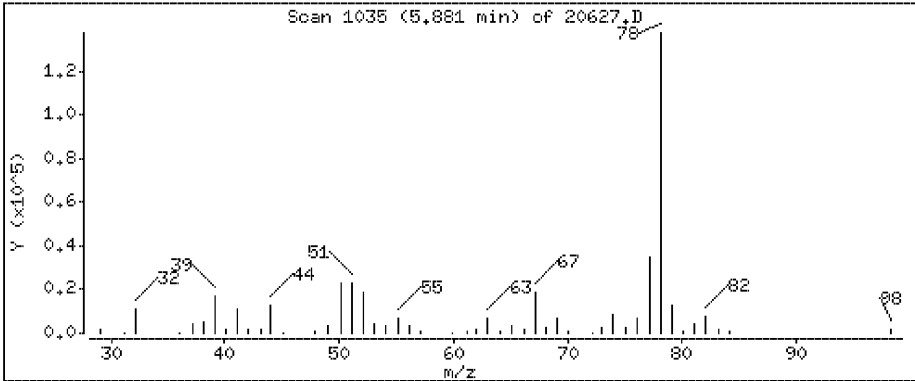
Operator: DR1

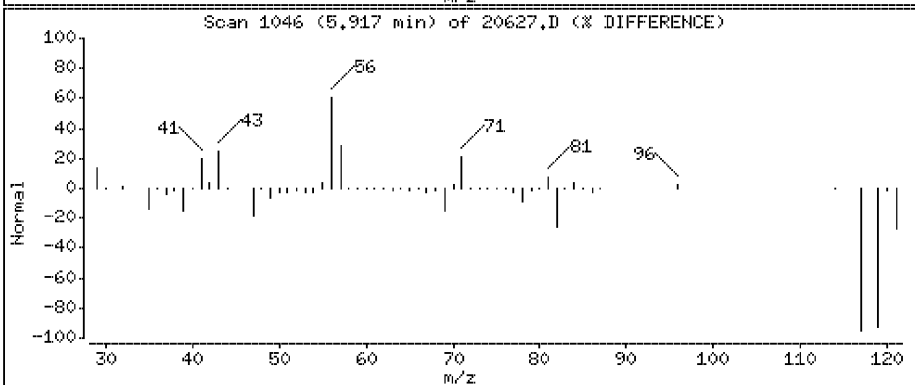
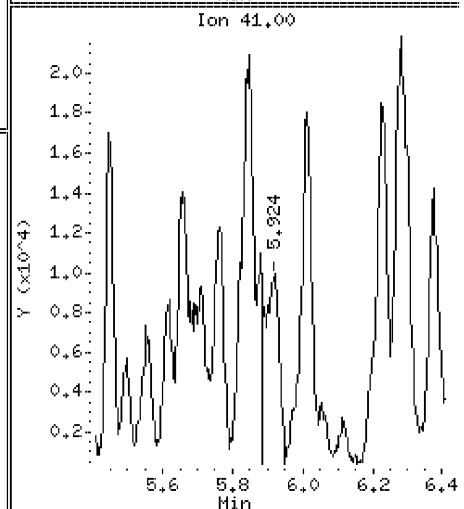
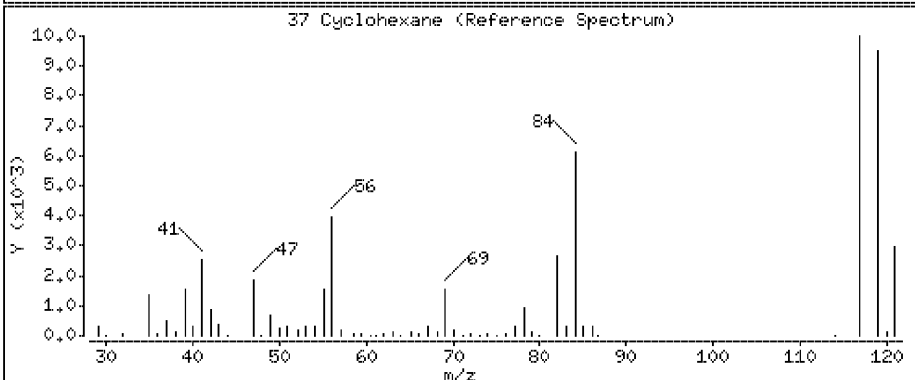
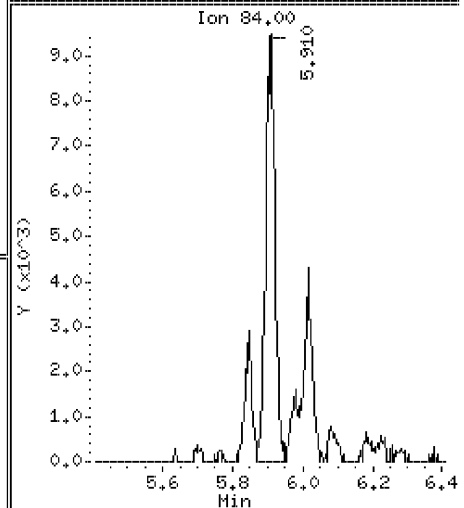
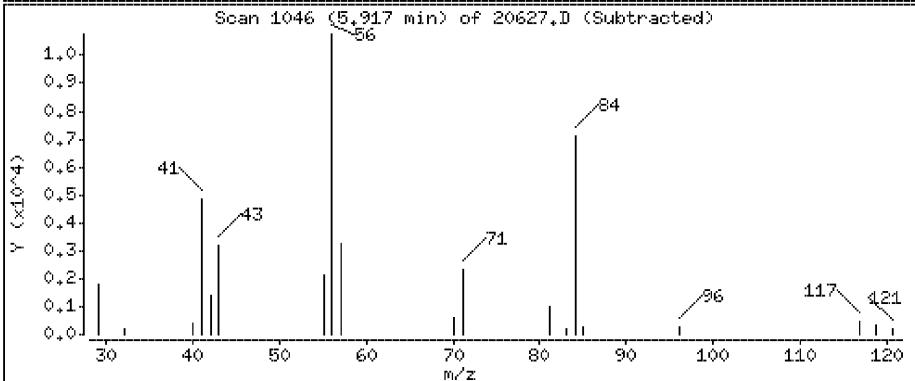
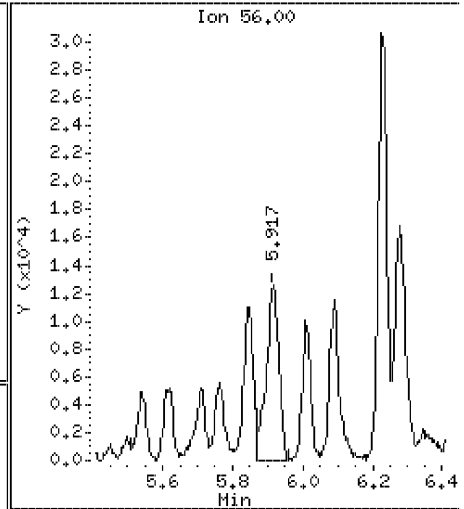
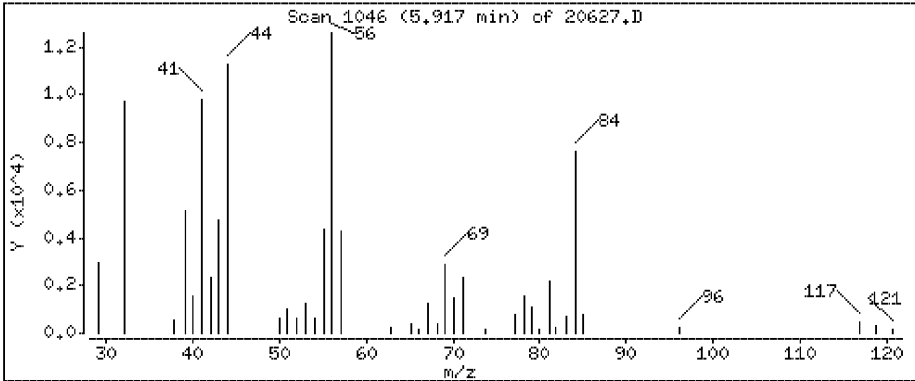
Column phase: J&W DB-5

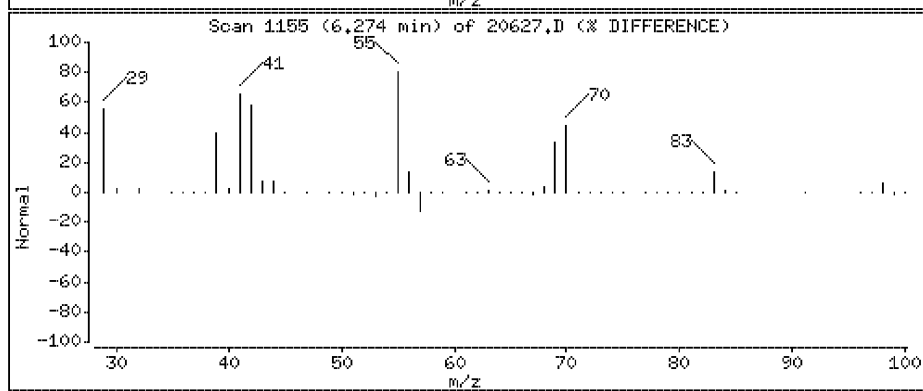
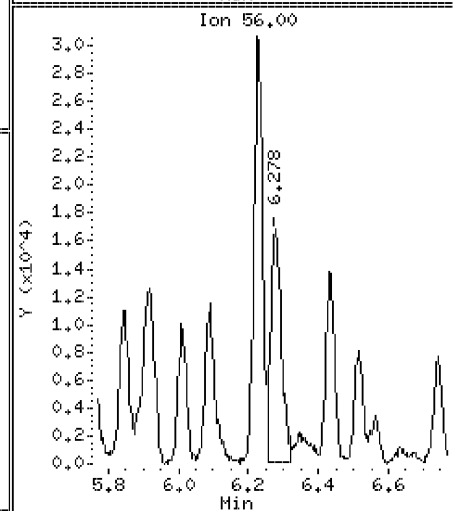
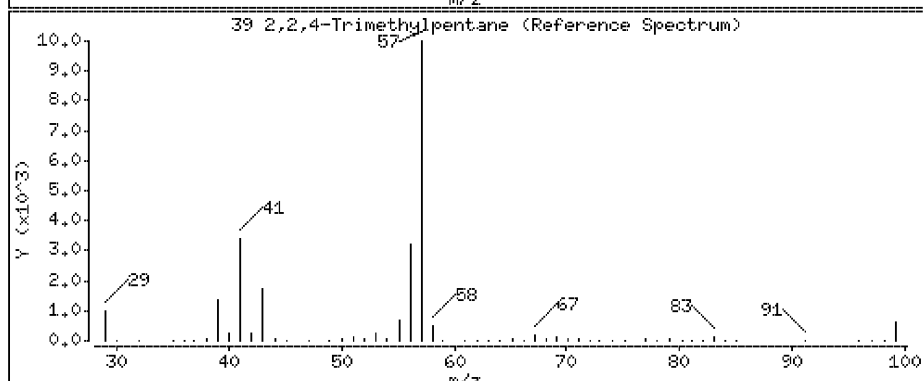
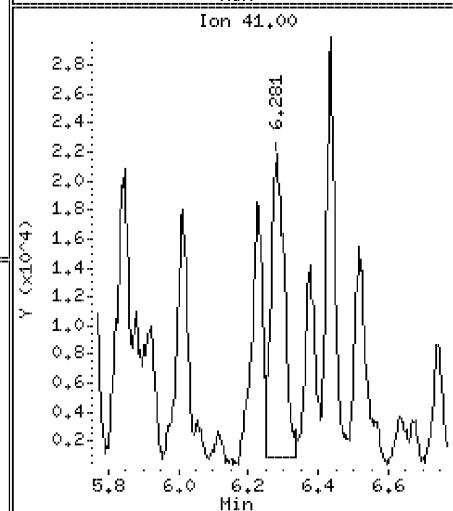
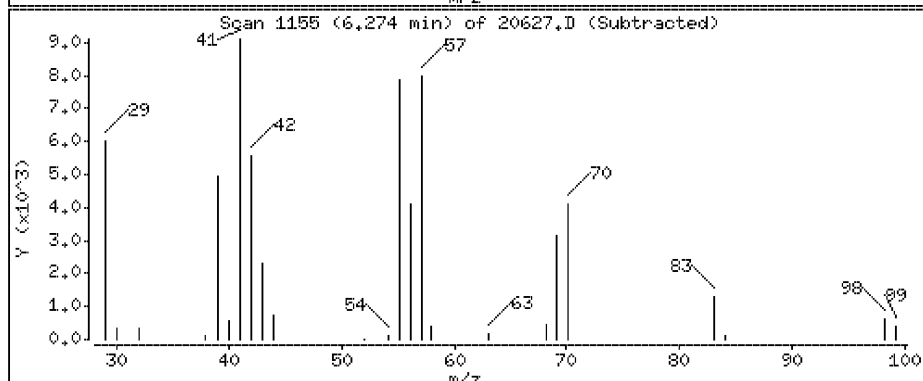
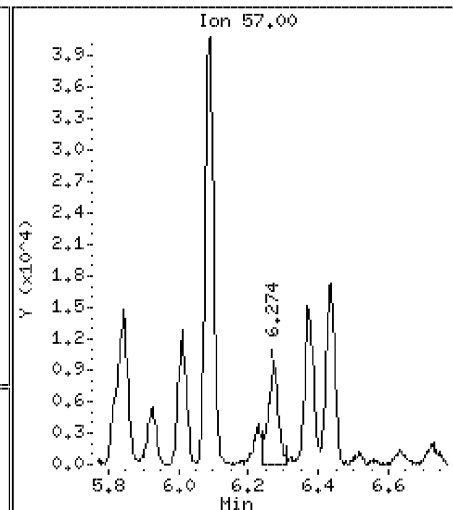
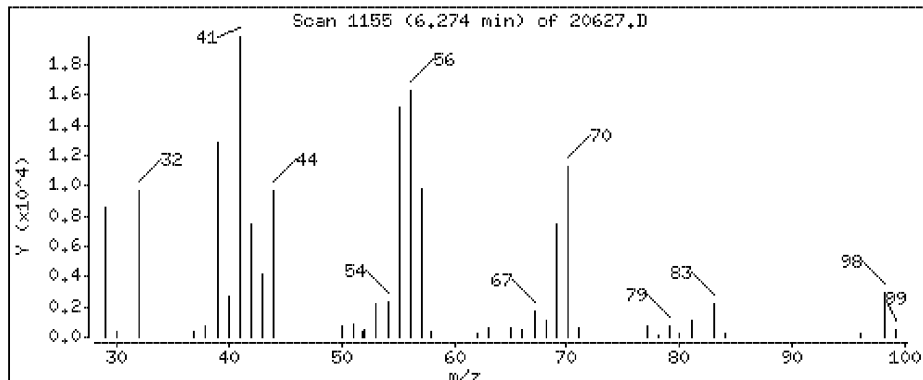
Column diameter: 0.32

35 Benzene

Concentration: 5.69 ppbv

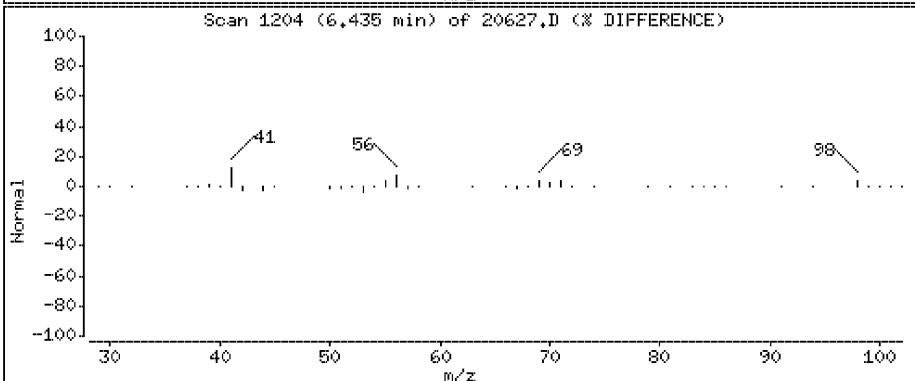
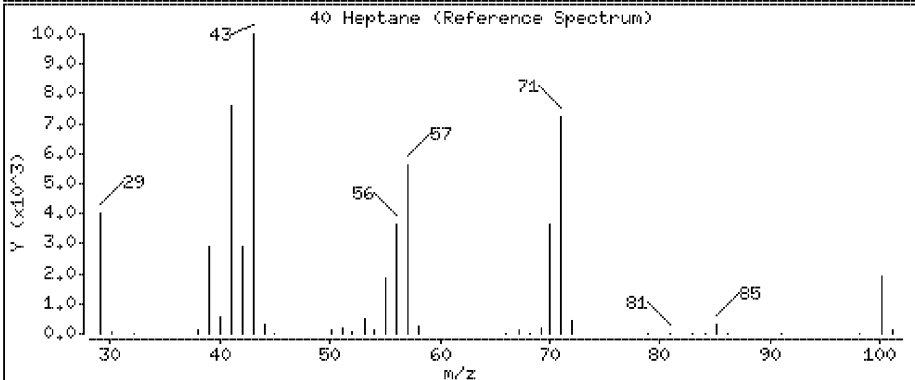
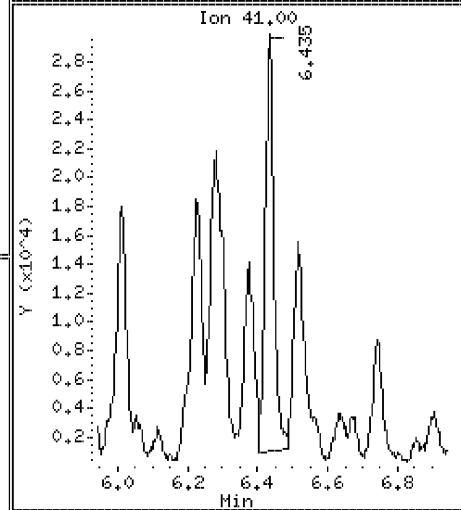
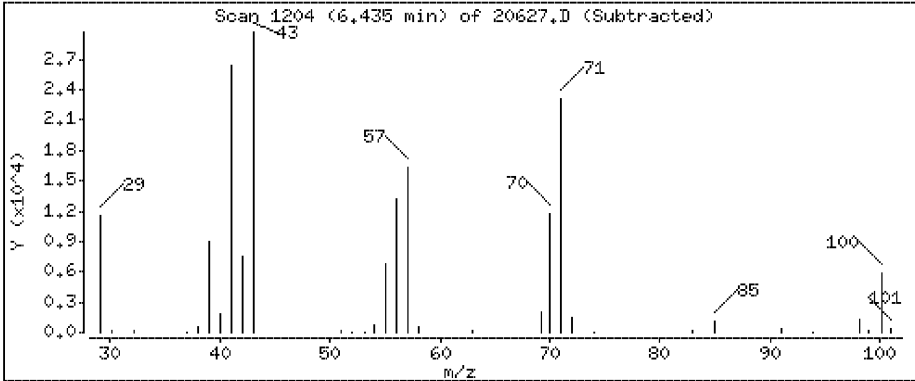
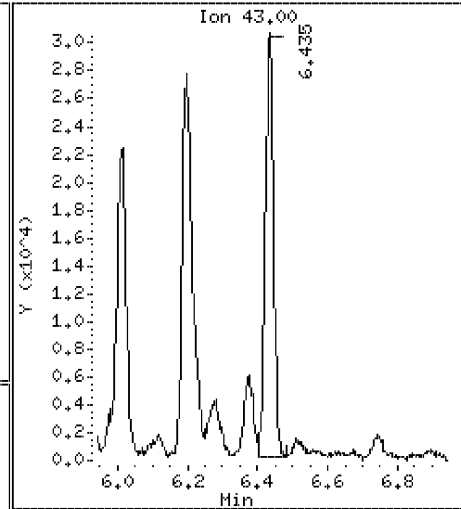
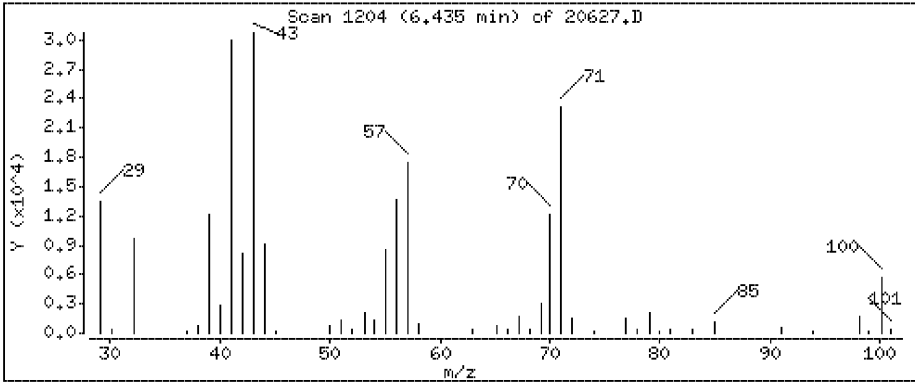






40 Heptane

Concentration: 3.64 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20627.D

Date : 26-JUL-2013 02:01

Client ID:

Instrument: 10airD.i

Sample Info:

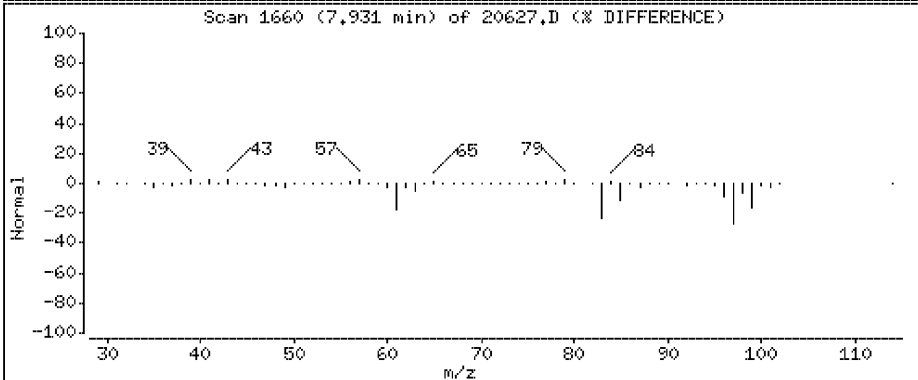
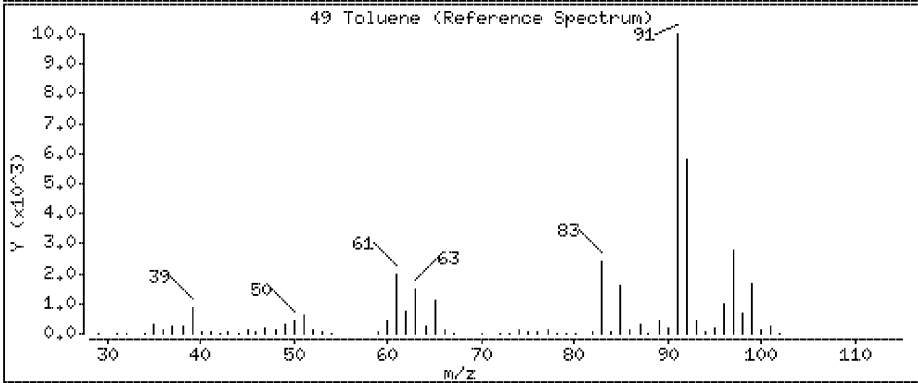
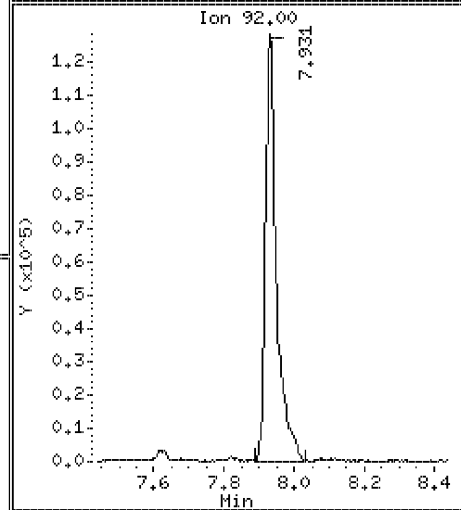
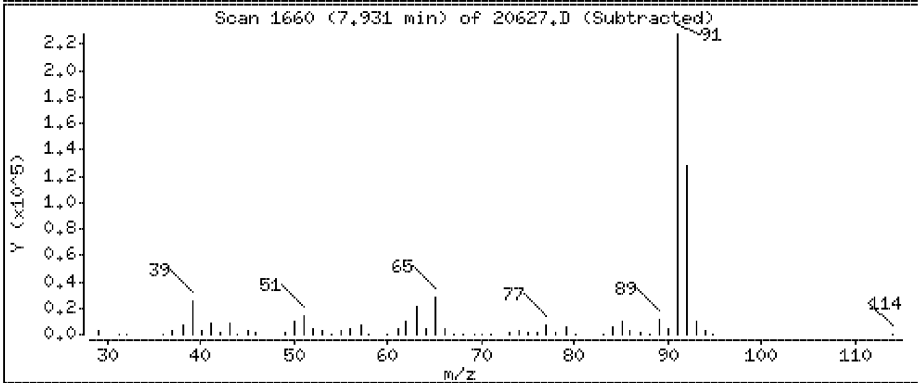
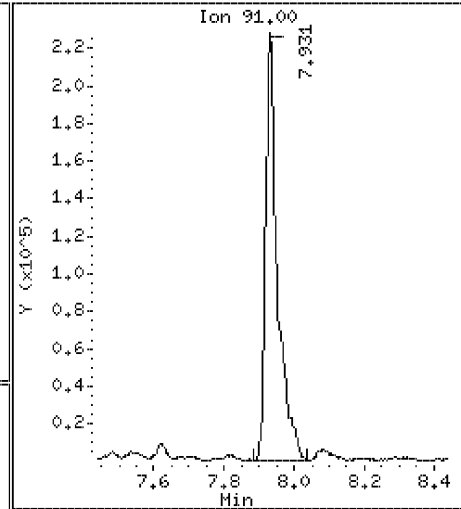
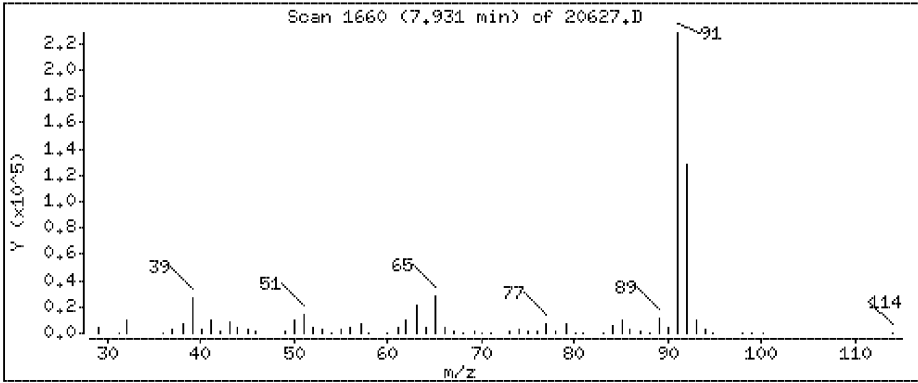
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

49 Toluene

Concentration: 9.83 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20627.D

Date : 26-JUL-2013 02:01

Client ID:

Instrument: 10airD.i

Sample Info:

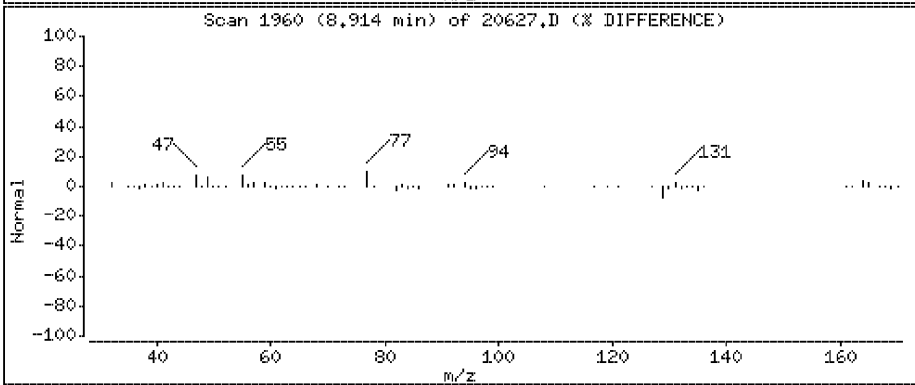
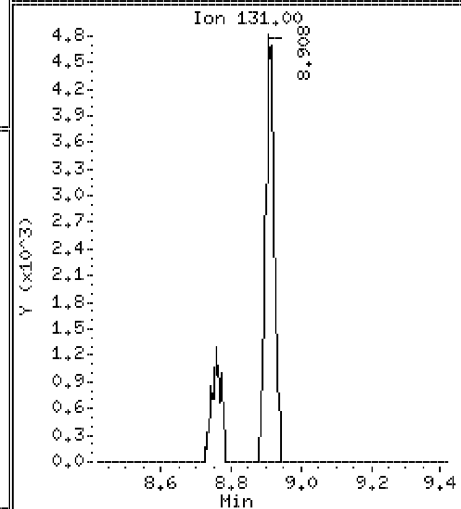
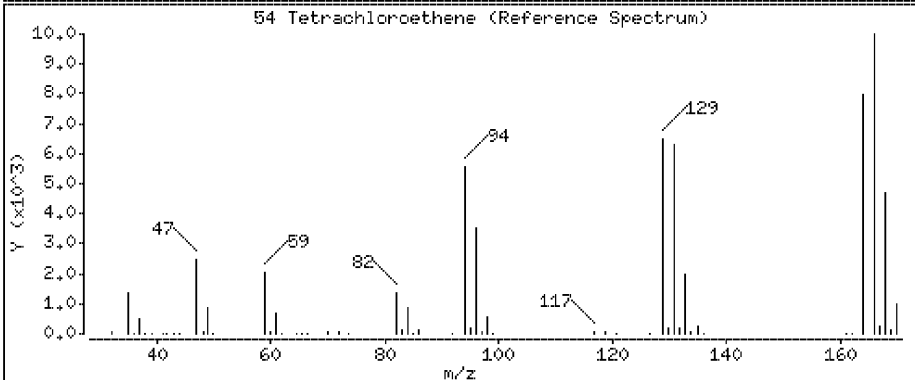
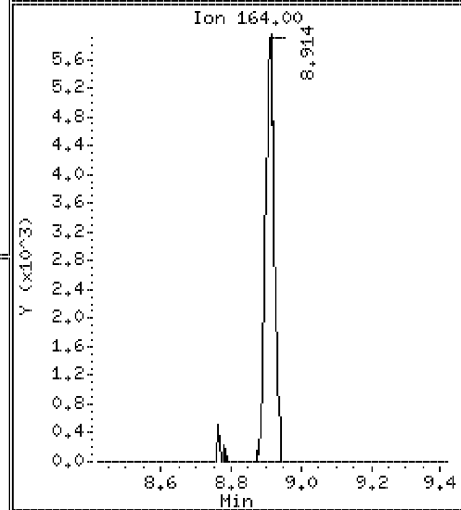
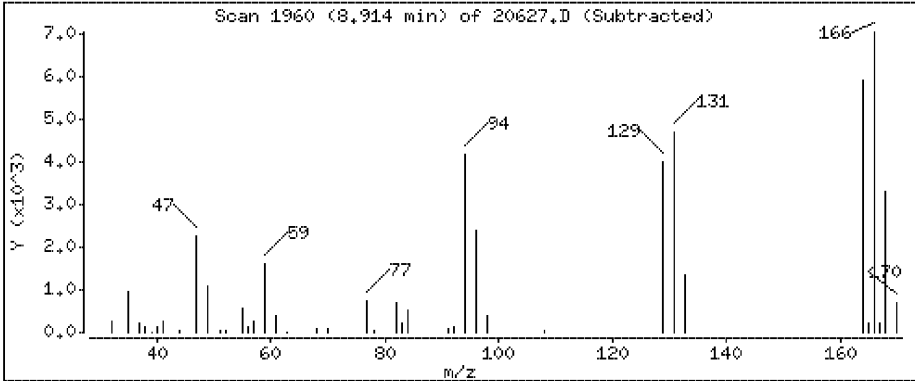
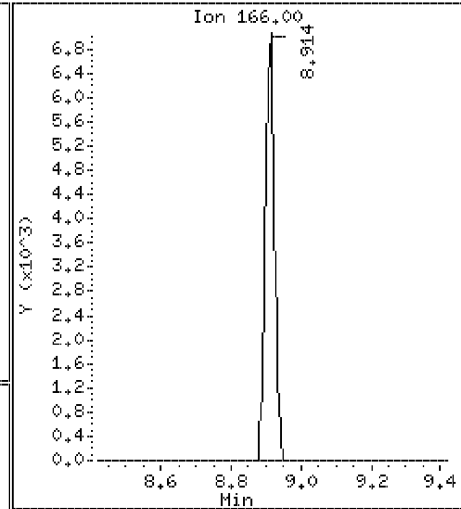
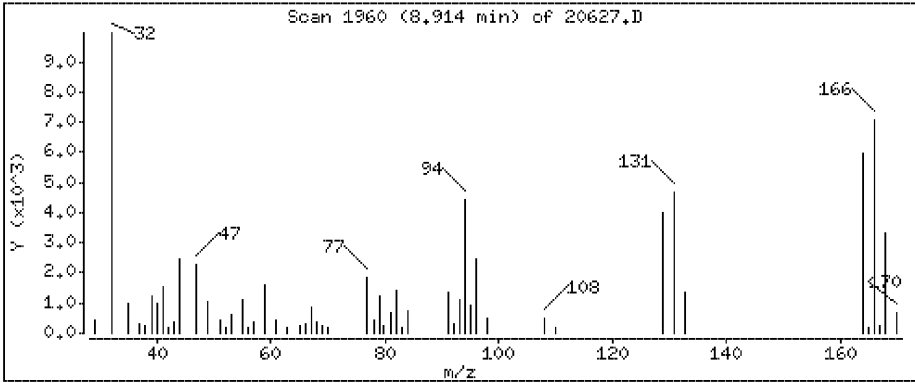
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

54 Tetrachloroethene

Concentration: 1.06 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20627.D

Date : 26-JUL-2013 02:01

Client ID:

Instrument: 10airD.i

Sample Info:

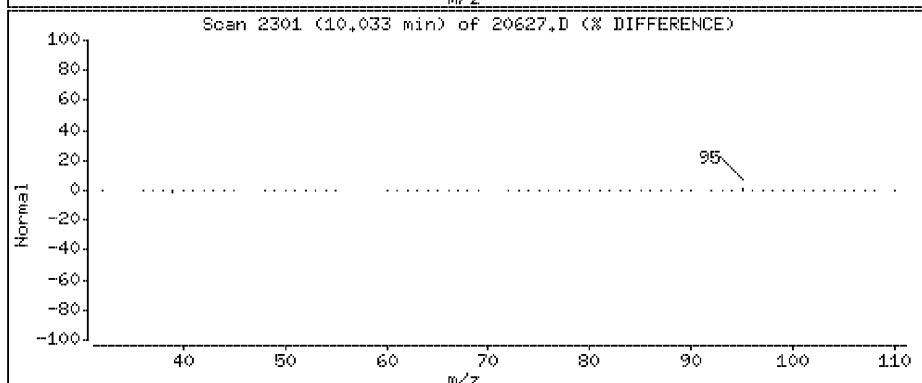
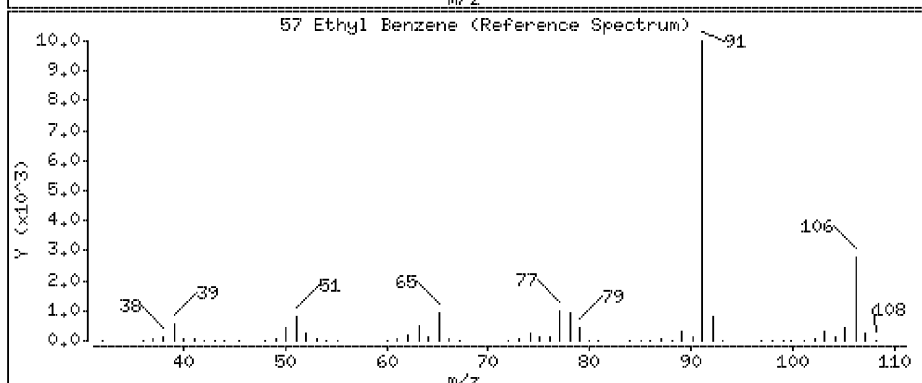
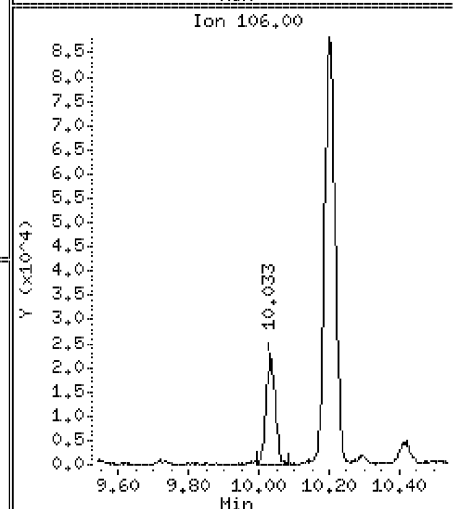
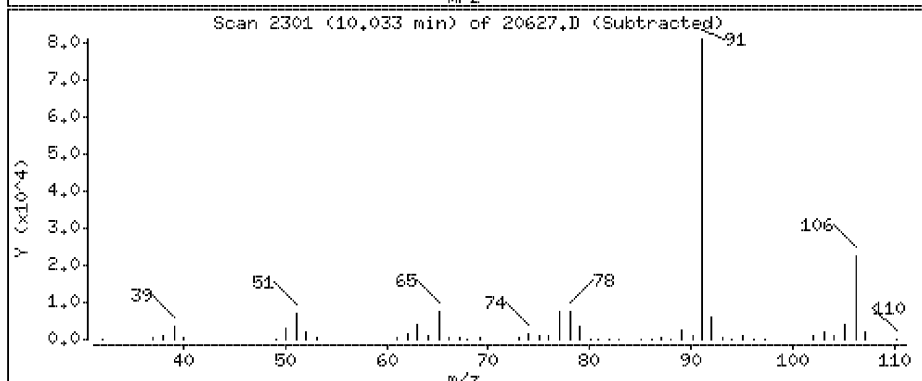
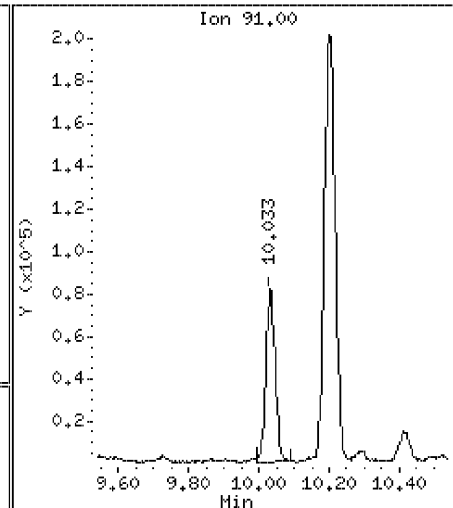
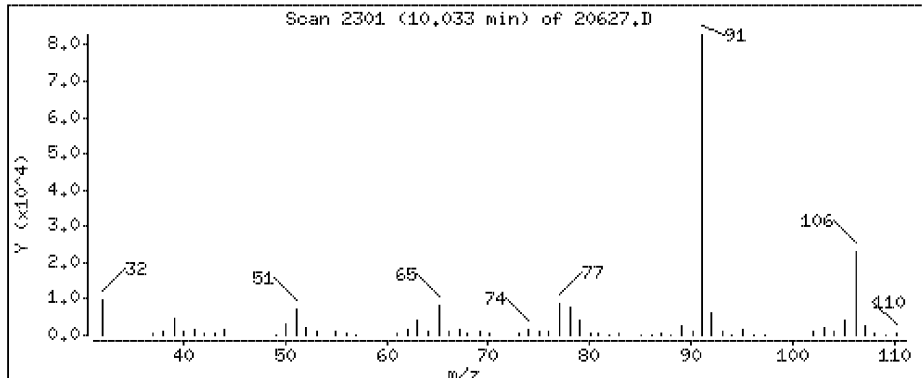
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

57 Ethyl Benzene

Concentration: 2.66 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20627.D

Date : 26-JUL-2013 02:01

Client ID:

Instrument: 10airD.i

Sample Info:

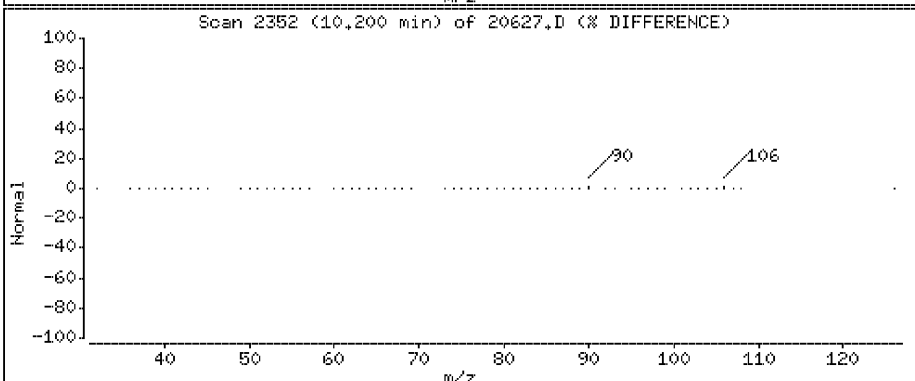
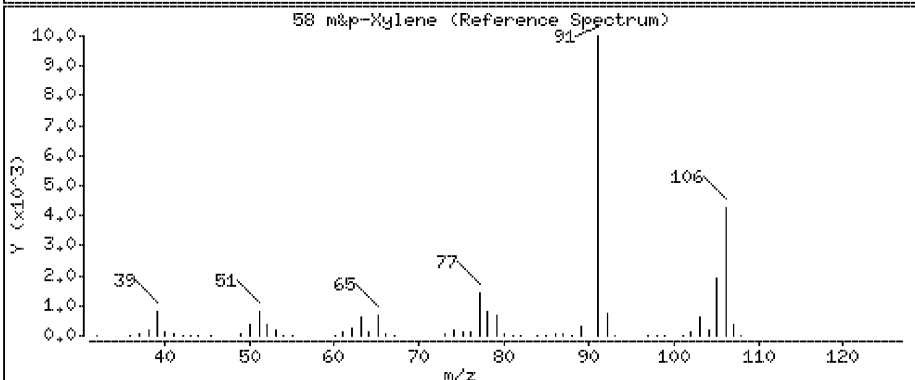
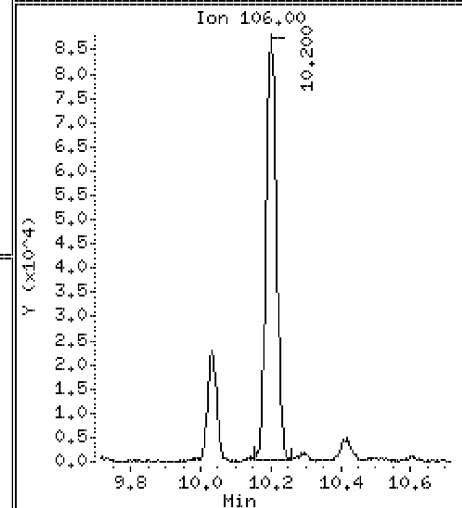
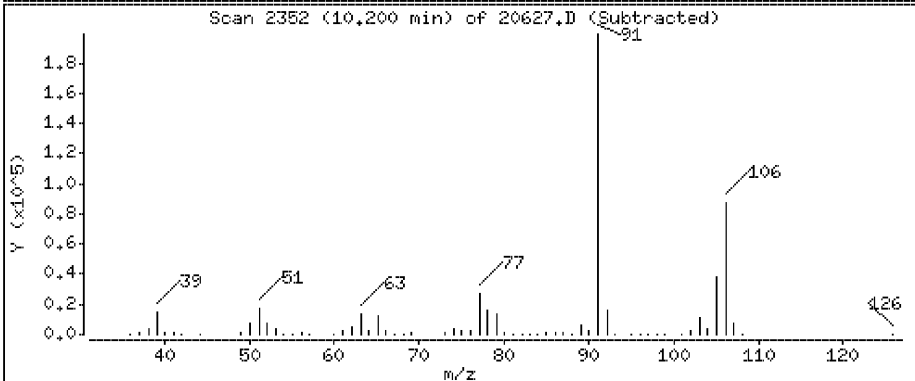
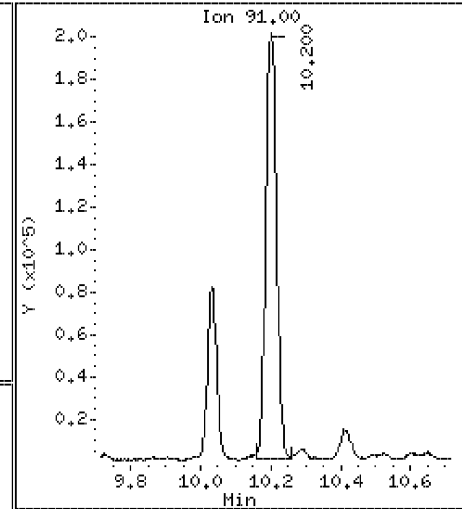
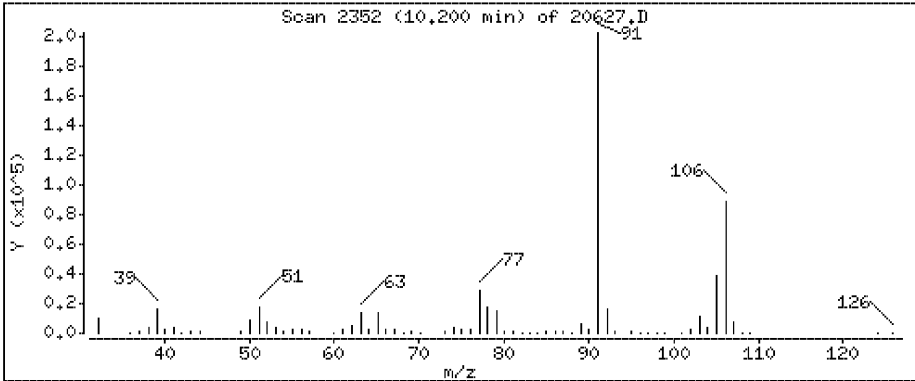
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

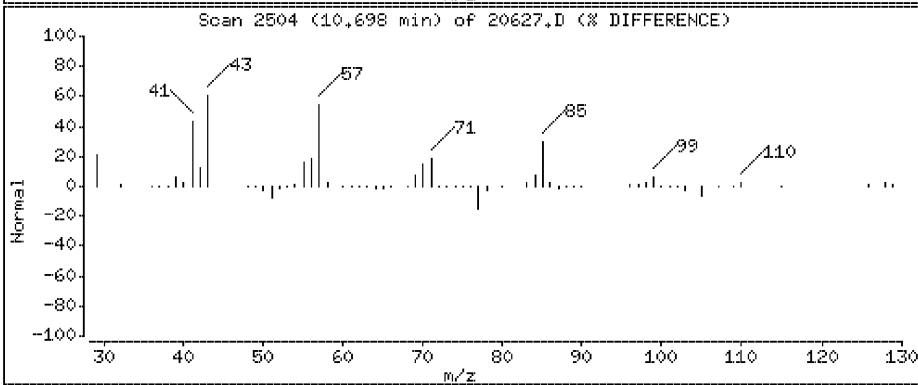
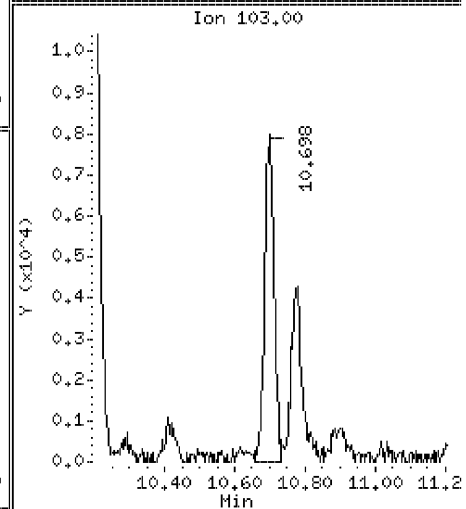
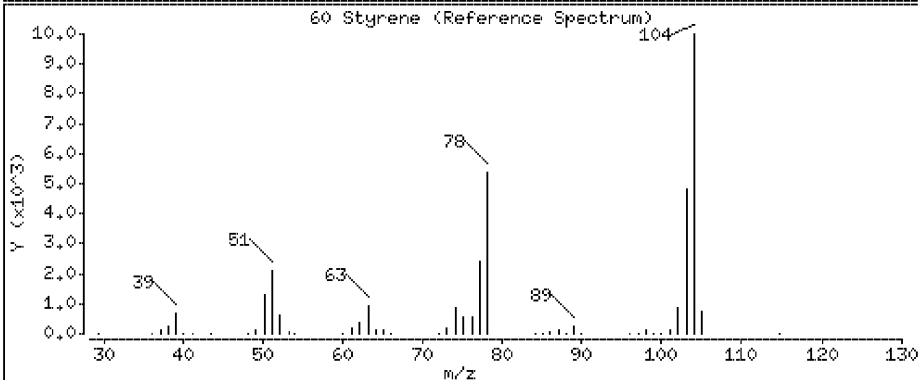
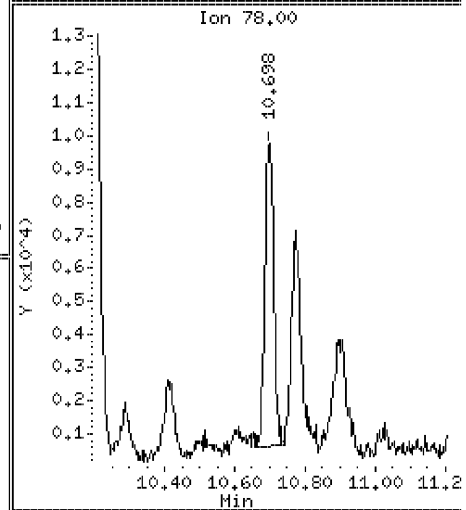
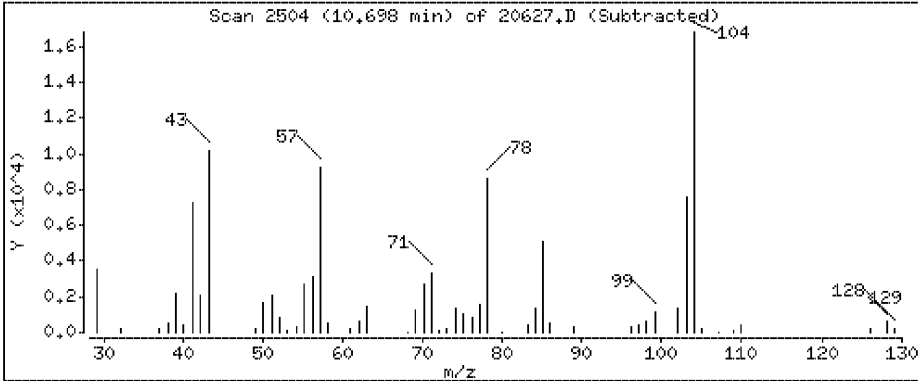
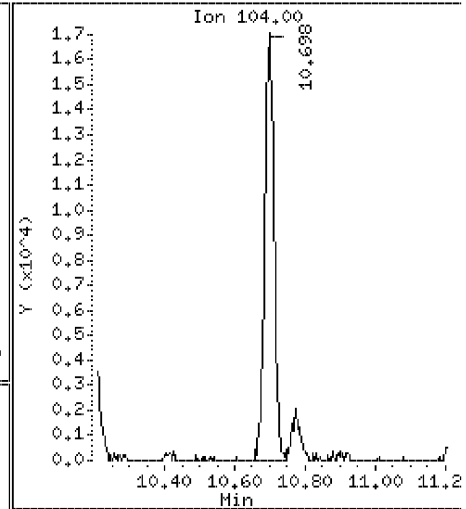
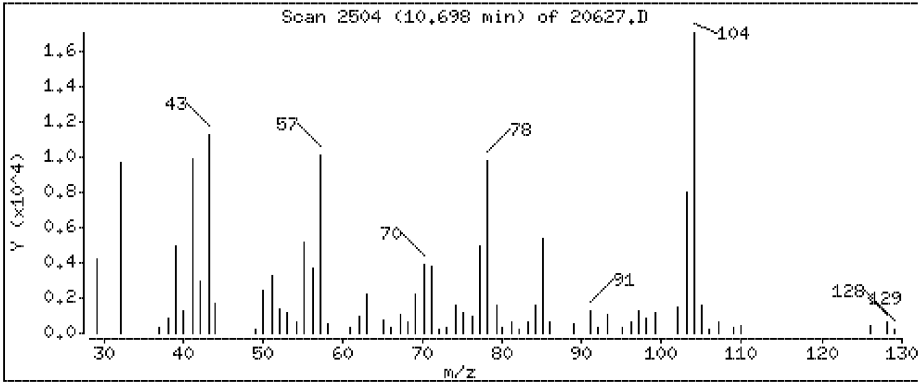
58 m&p-Xylene

Concentration: 8.17 ppbv



60 Styrene

Concentration: 1.60 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20627.D

Date : 26-JUL-2013 02:01

Client ID:

Instrument: 10airD.i

Sample Info:

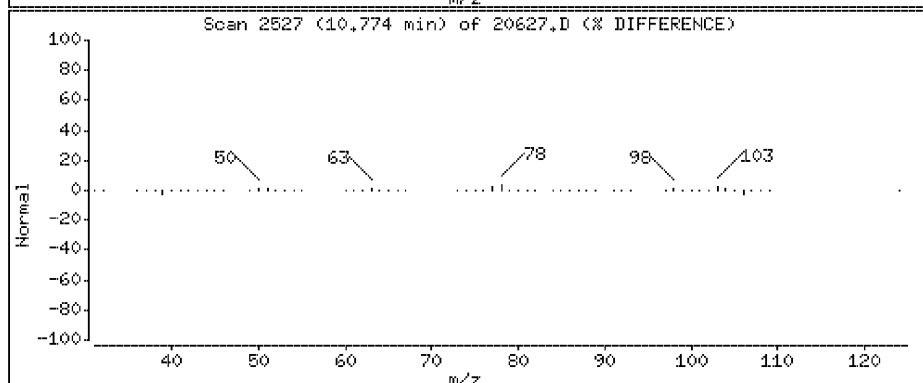
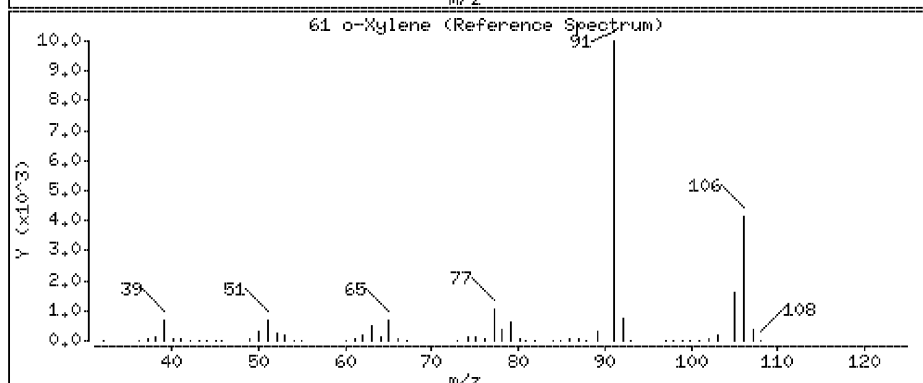
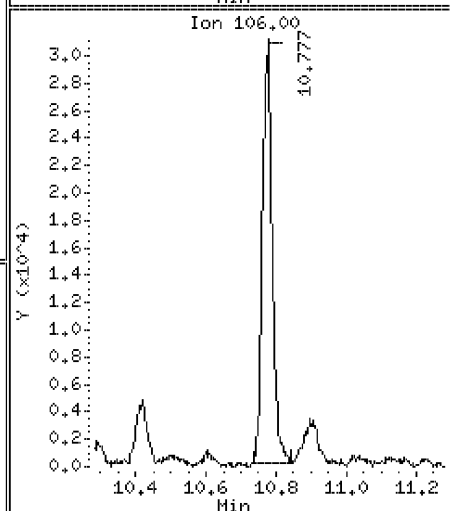
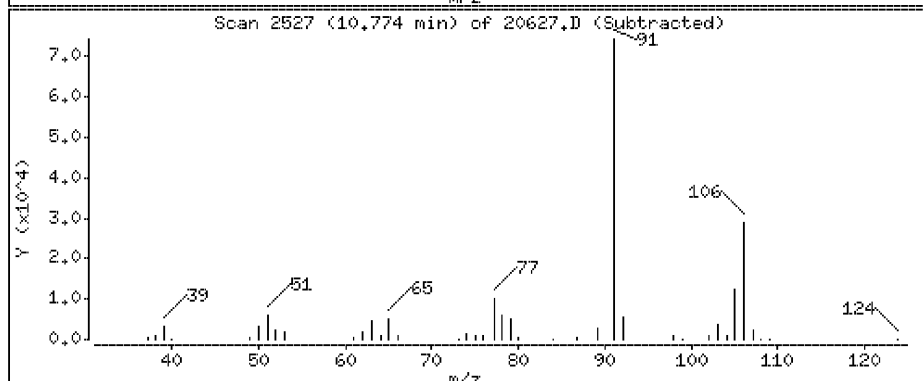
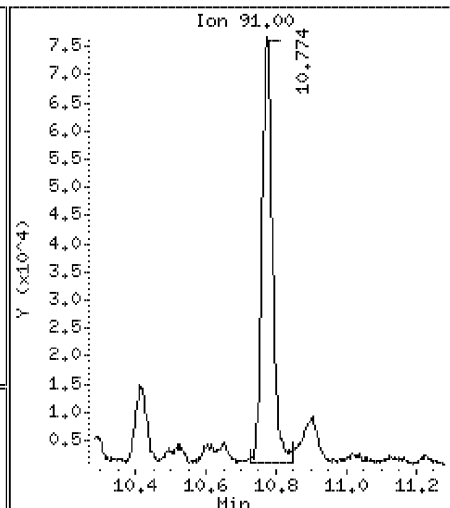
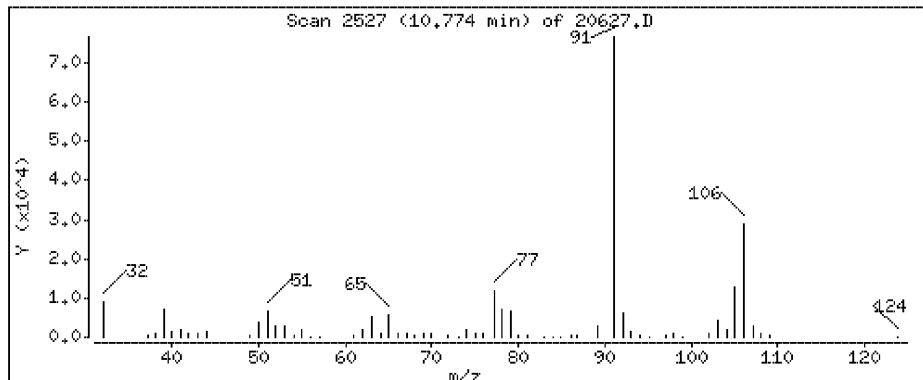
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

61 o-Xylene

Concentration: 3.06 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20627.D

Date : 26-JUL-2013 02:01

Client ID:

Instrument: 10airD.i

Sample Info:

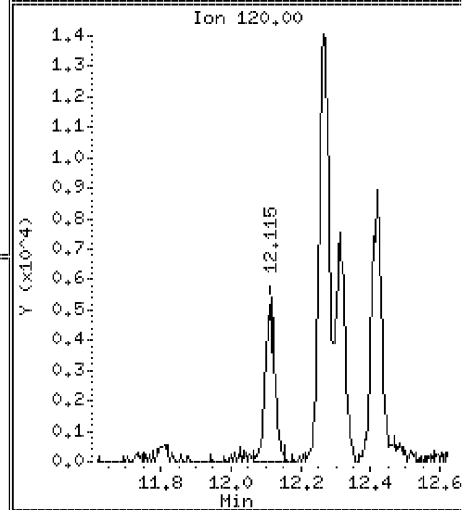
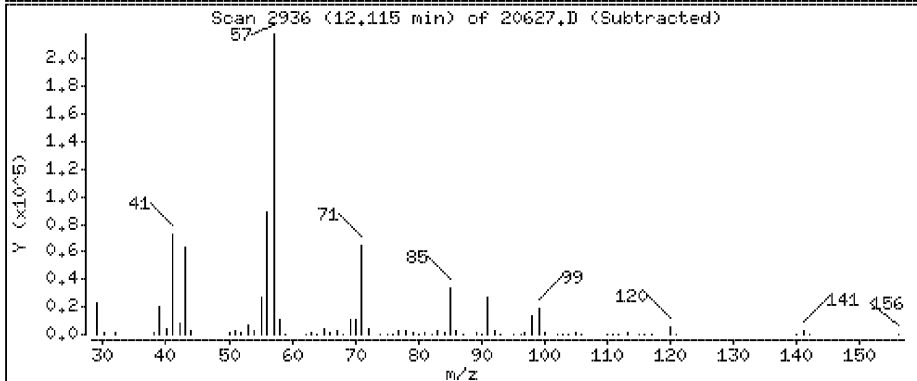
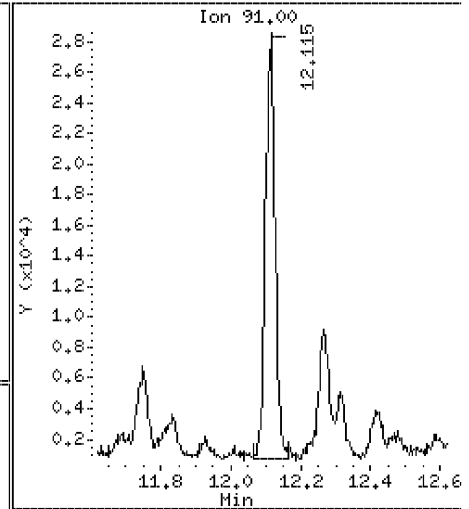
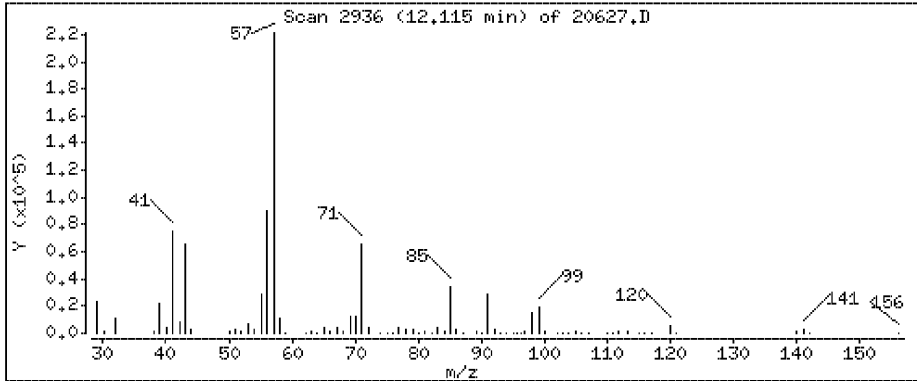
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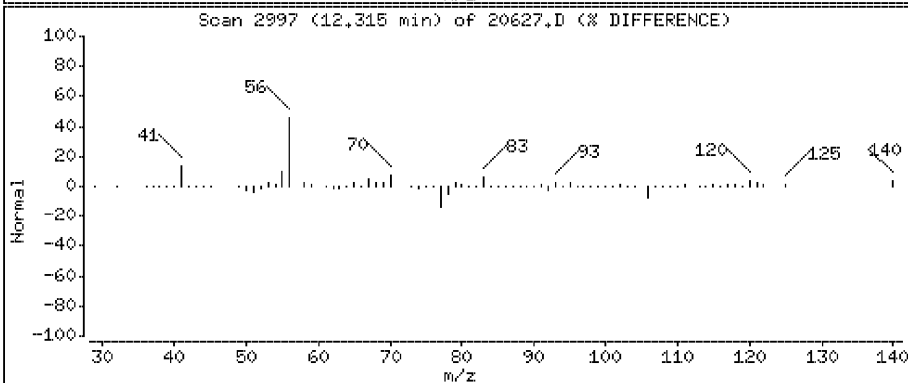
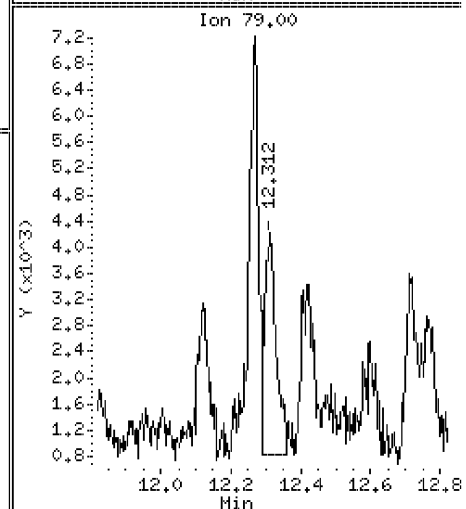
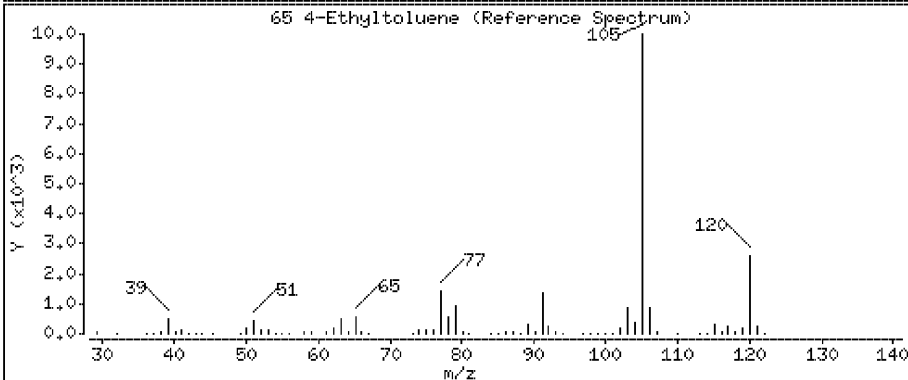
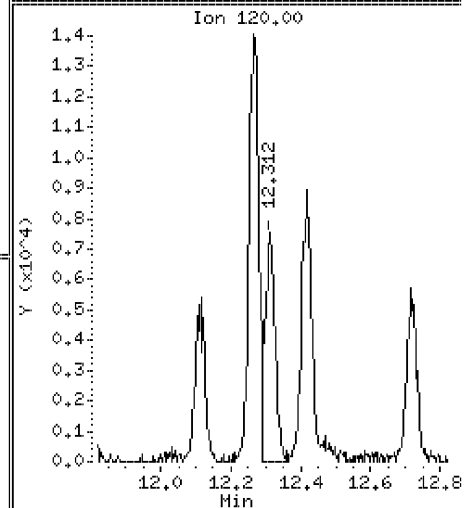
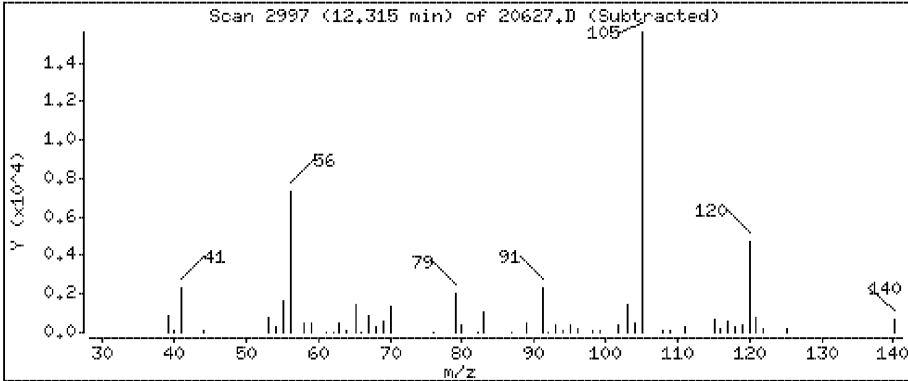
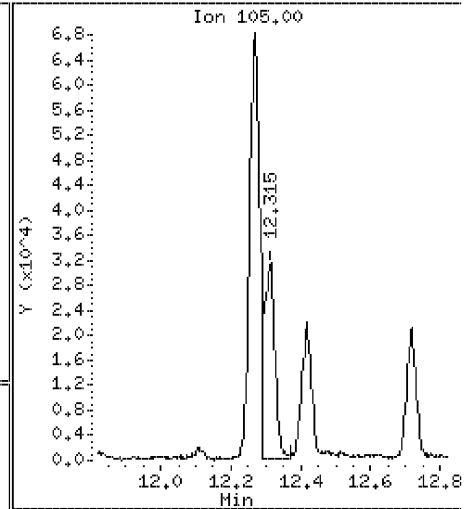
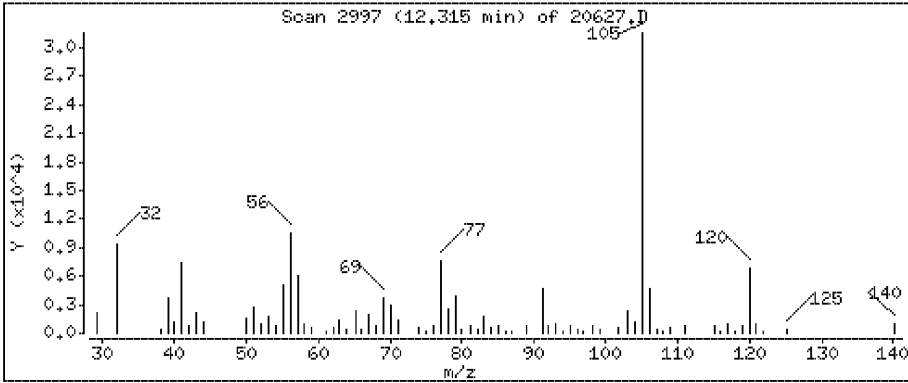
Column phase: J&W DB-5

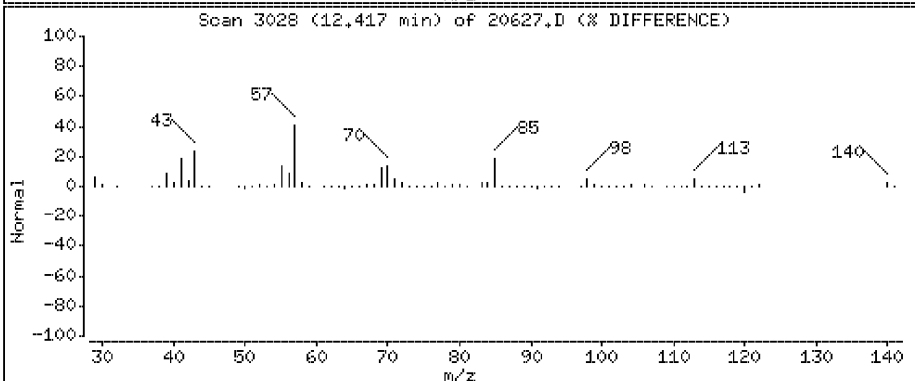
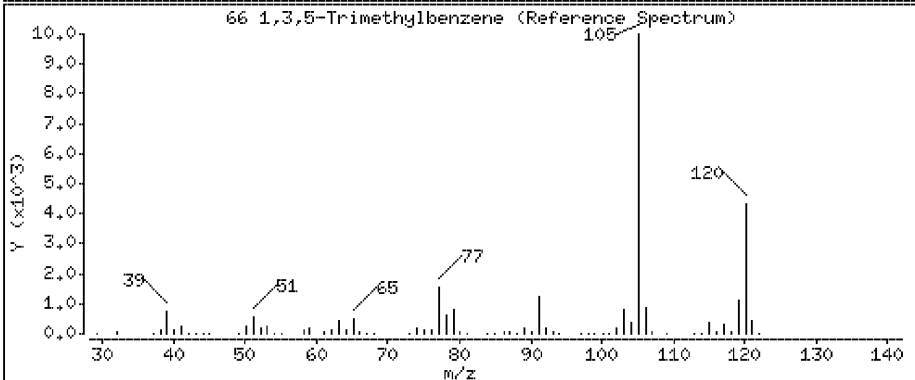
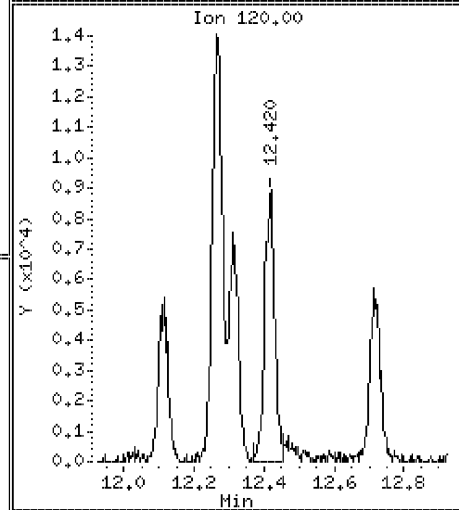
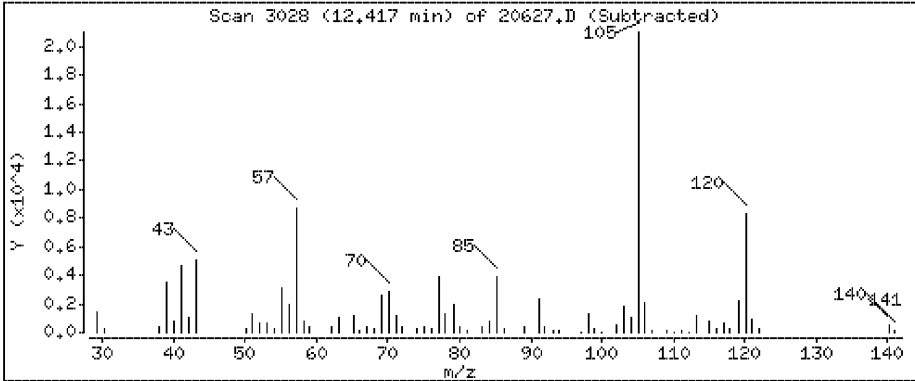
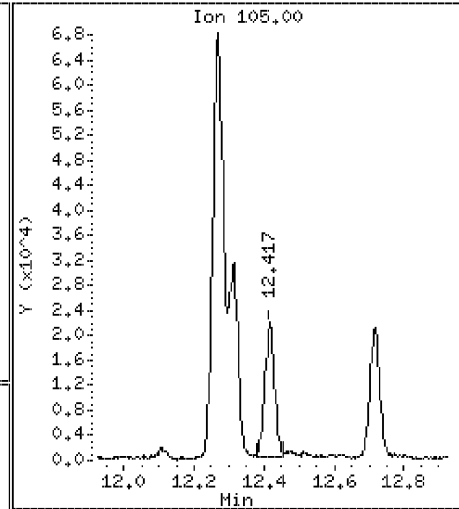
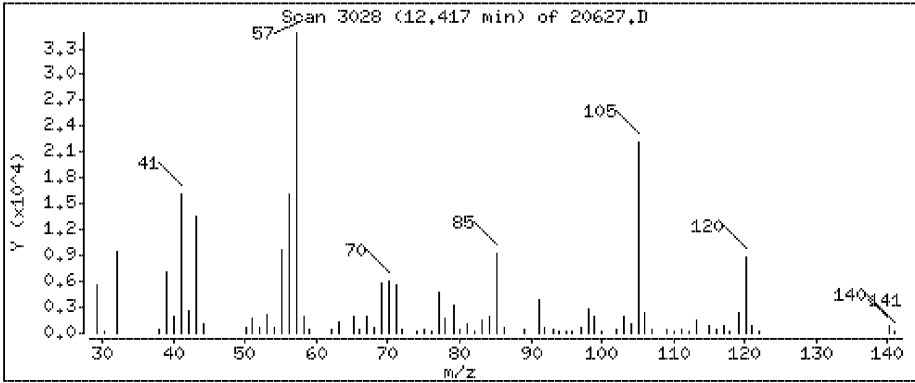
Column diameter: 0.32

64 N-Propylbenzene

Concentration: 1.09 ppbv







Data File: \\192.168.10.12\chem\10airD.i\072513,b\20627.D

Date : 26-JUL-2013 02:01

Client ID:

Instrument: 10airD.i

Sample Info:

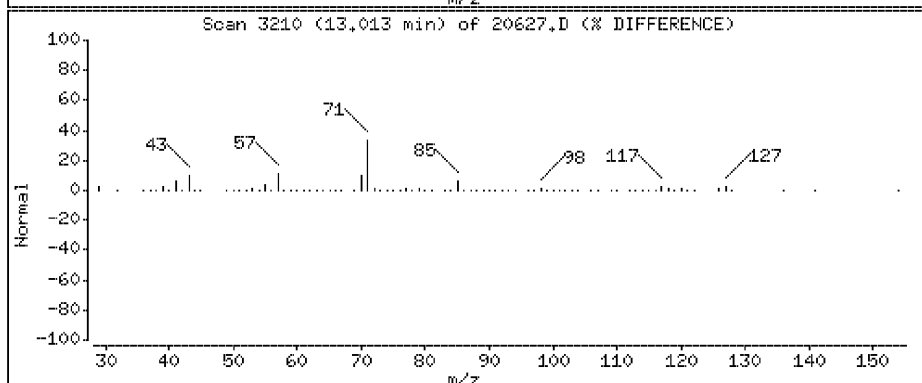
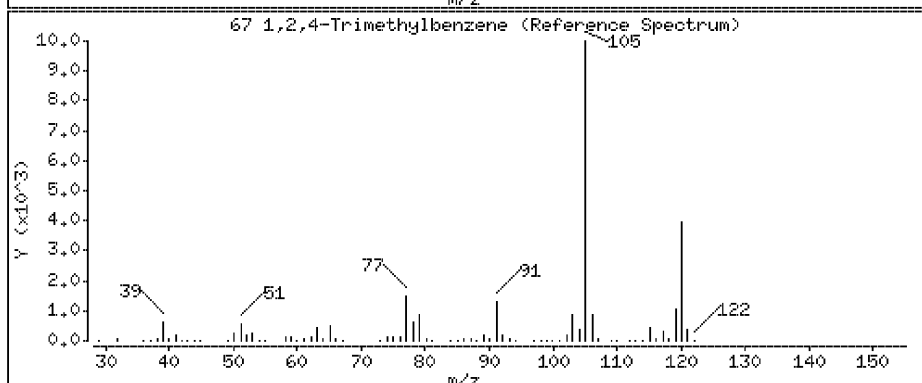
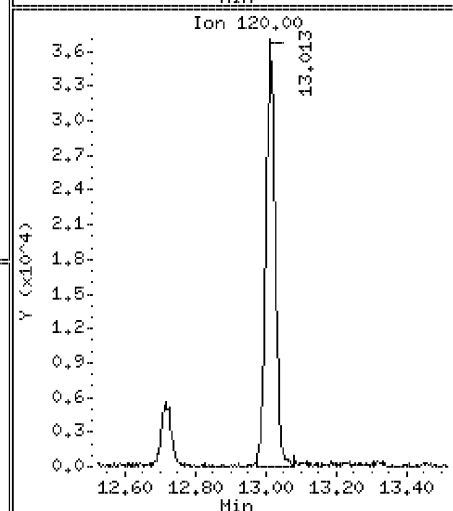
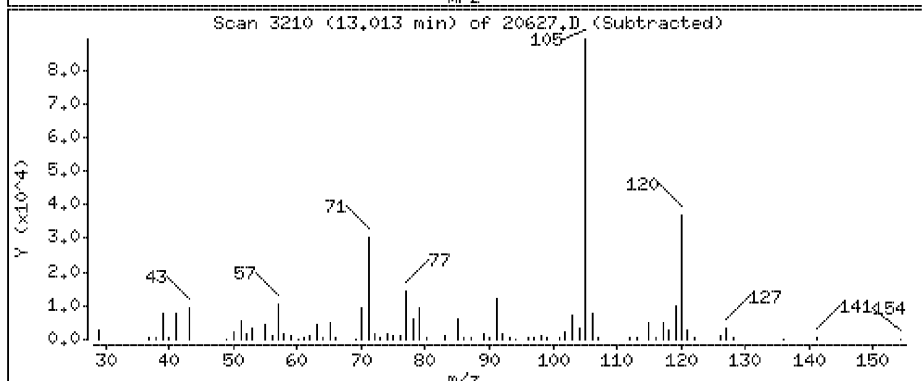
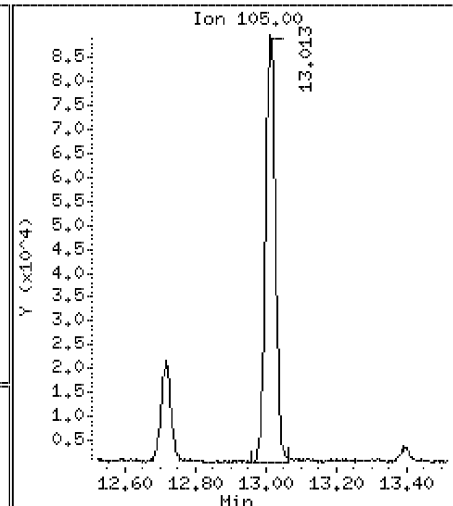
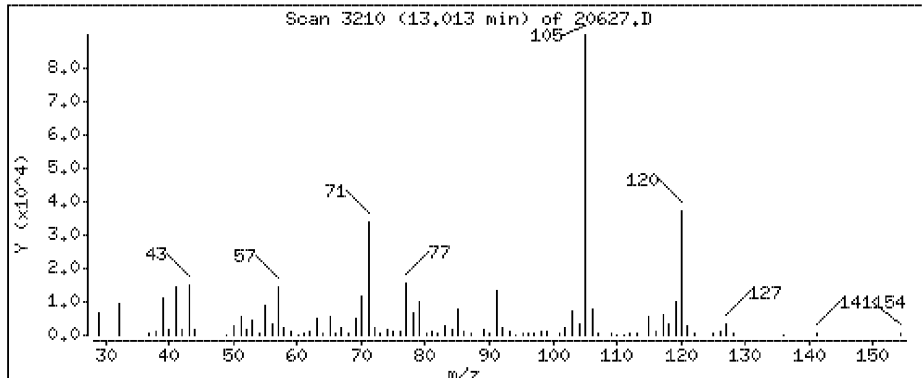
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

67 1,2,4-Trimethylbenzene

Concentration: 3.69 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20627.D

Date : 26-JUL-2013 02:01

Client ID:

Instrument: 10airD.i

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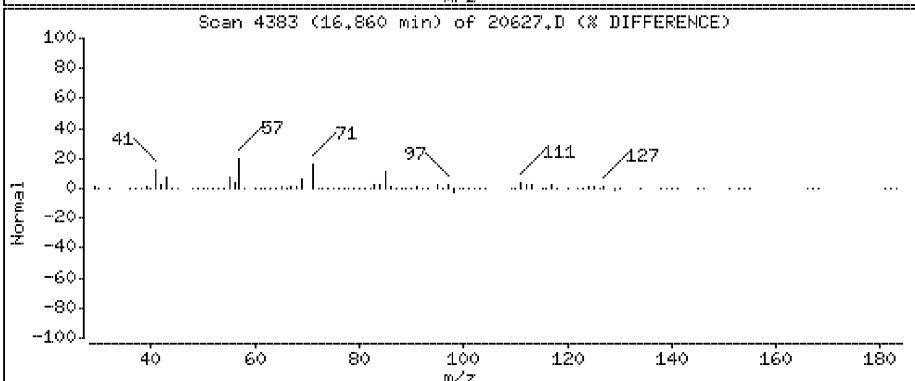
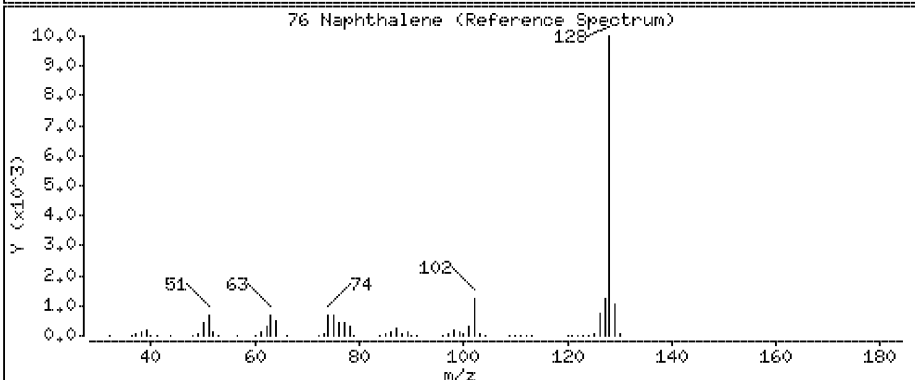
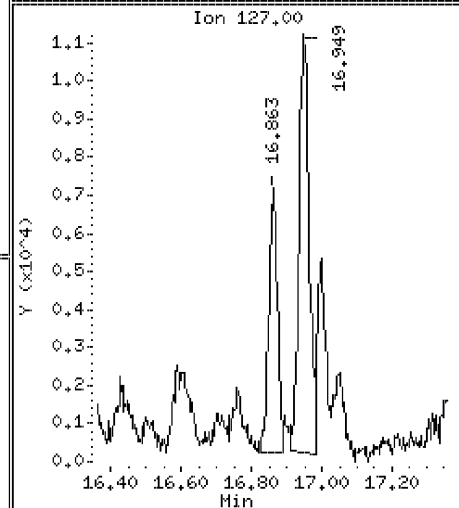
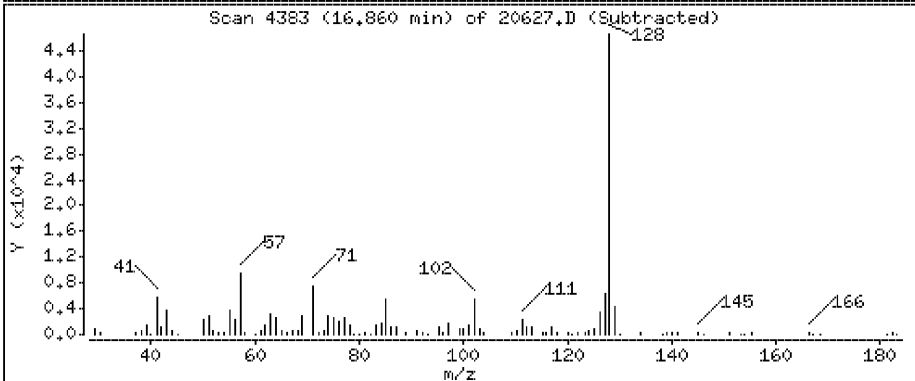
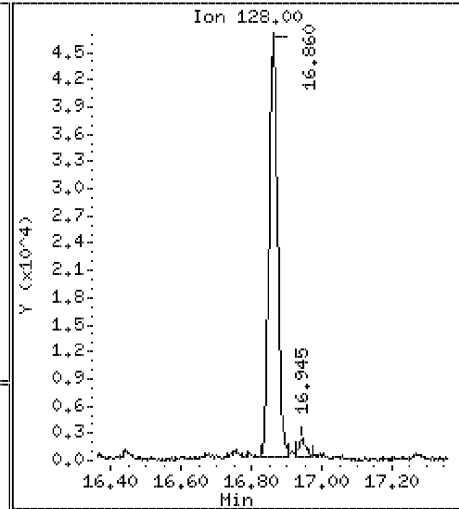
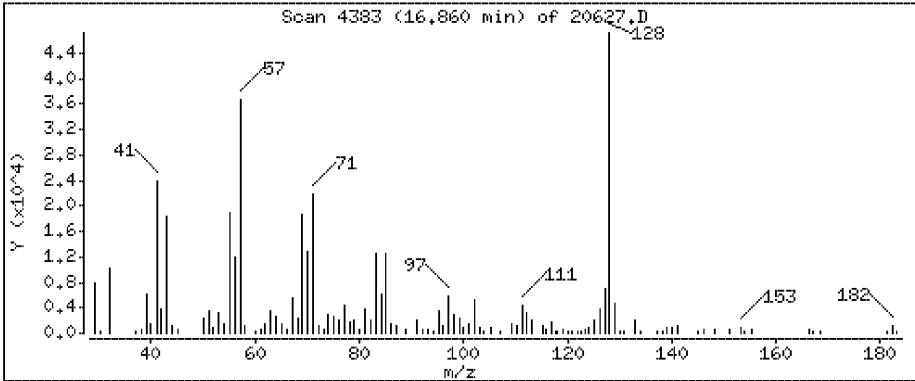
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

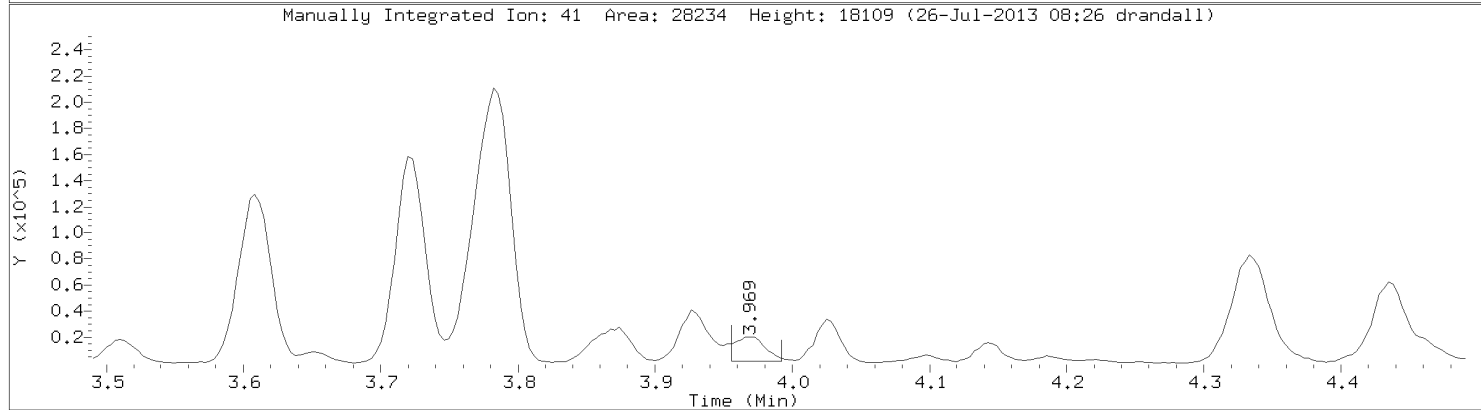
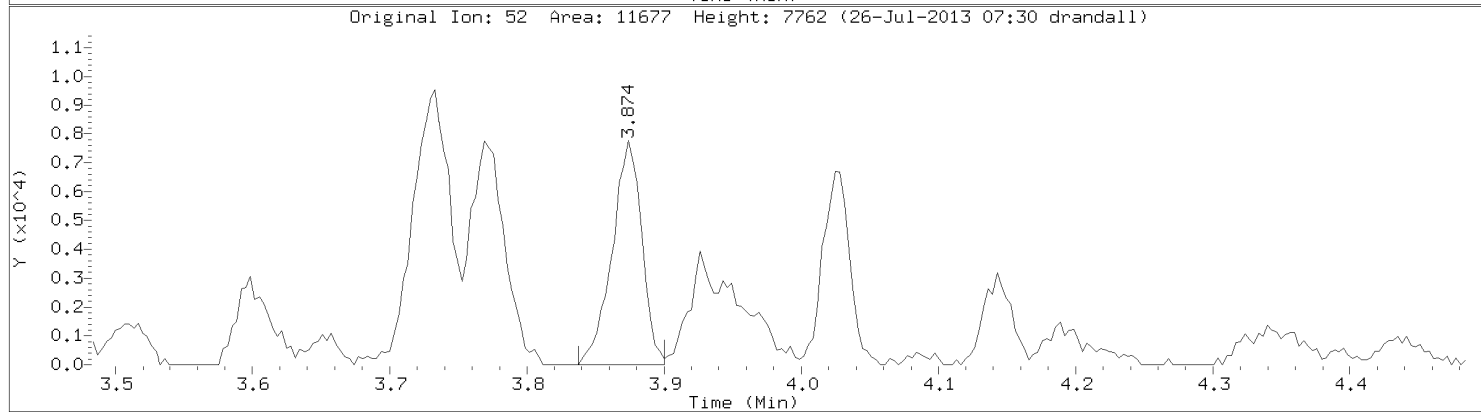
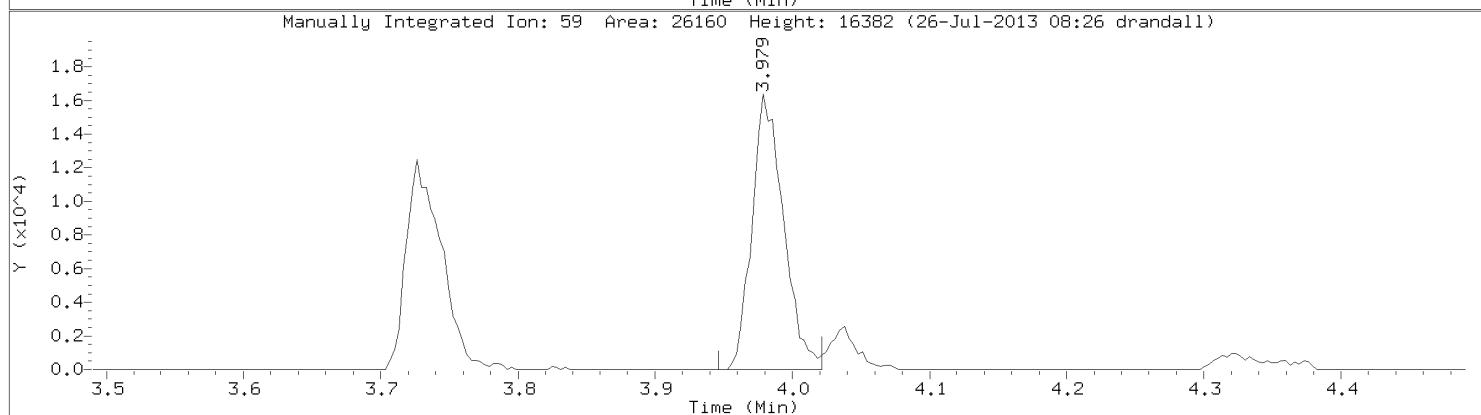
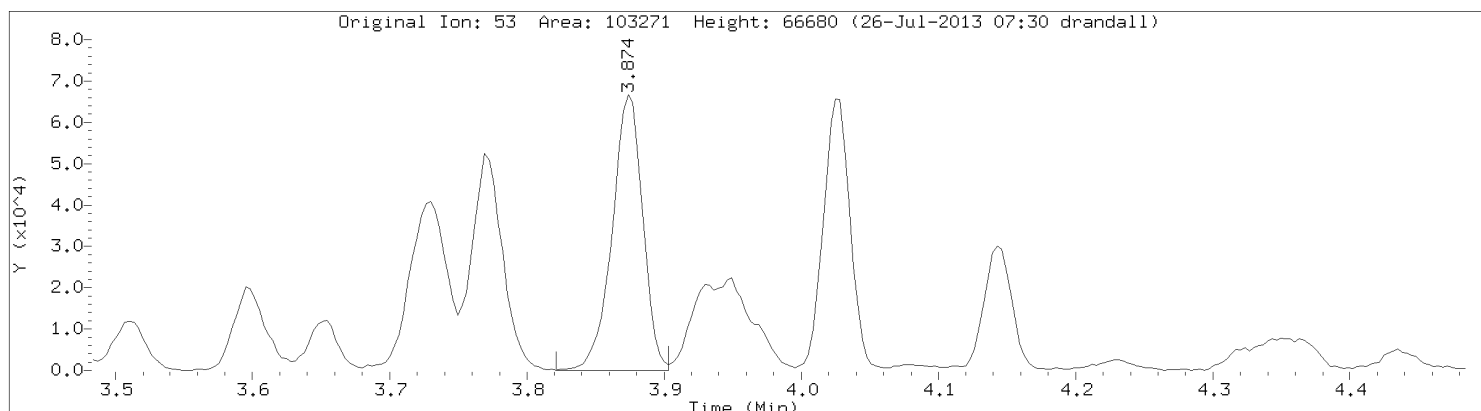
76 Naphthalene

Concentration: 3.47 ppbv



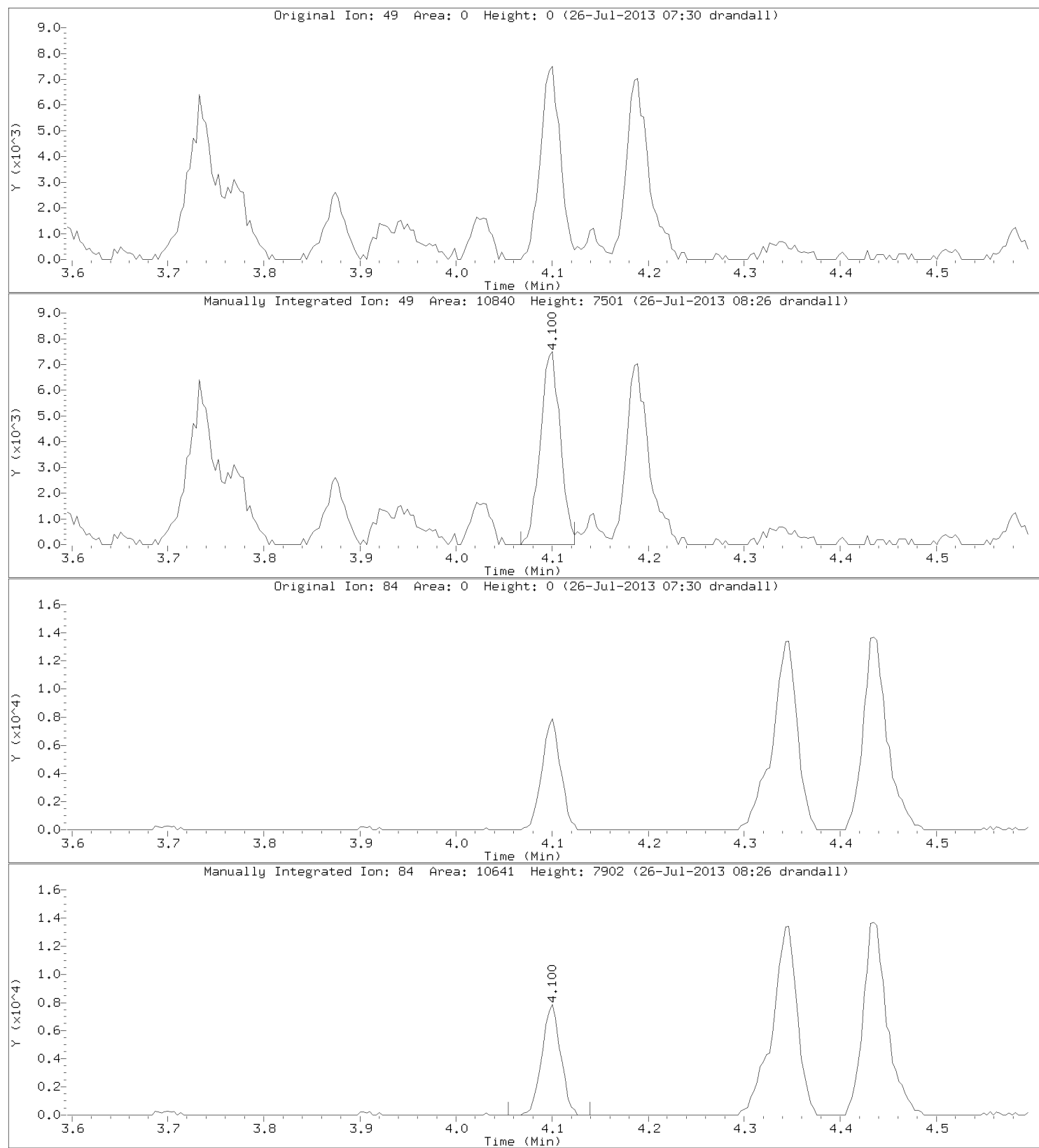
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Injection Date: 26-JUL-2013 02:01
Instrument: 10airD.i
Lab Sample ID: 10236207014

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

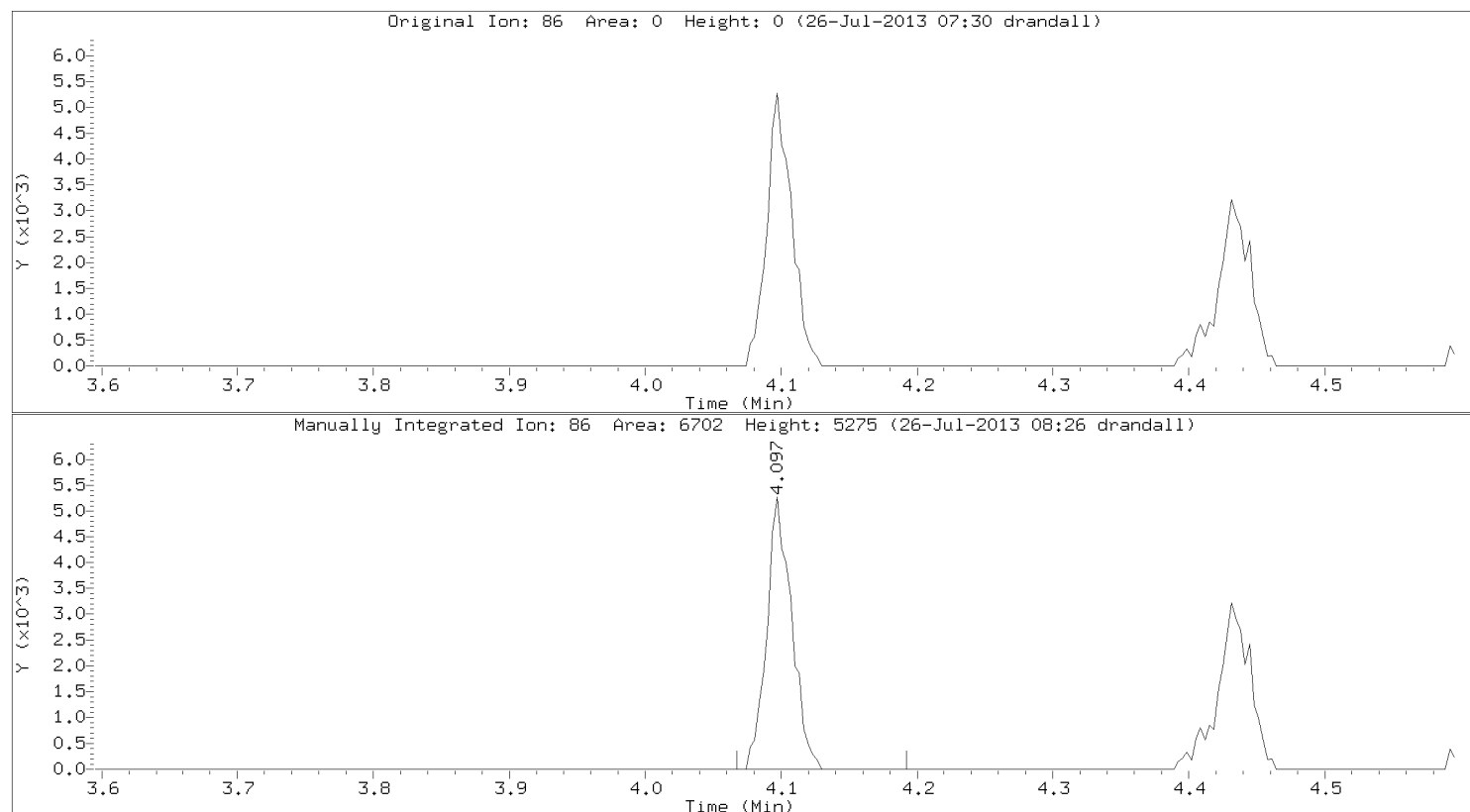


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Injection Date: 26-JUL-2013 02:01
Instrument: 10airD.i
Lab Sample ID: 10236207014

Compound: Methylene chloride
CAS Number: 75-09-2

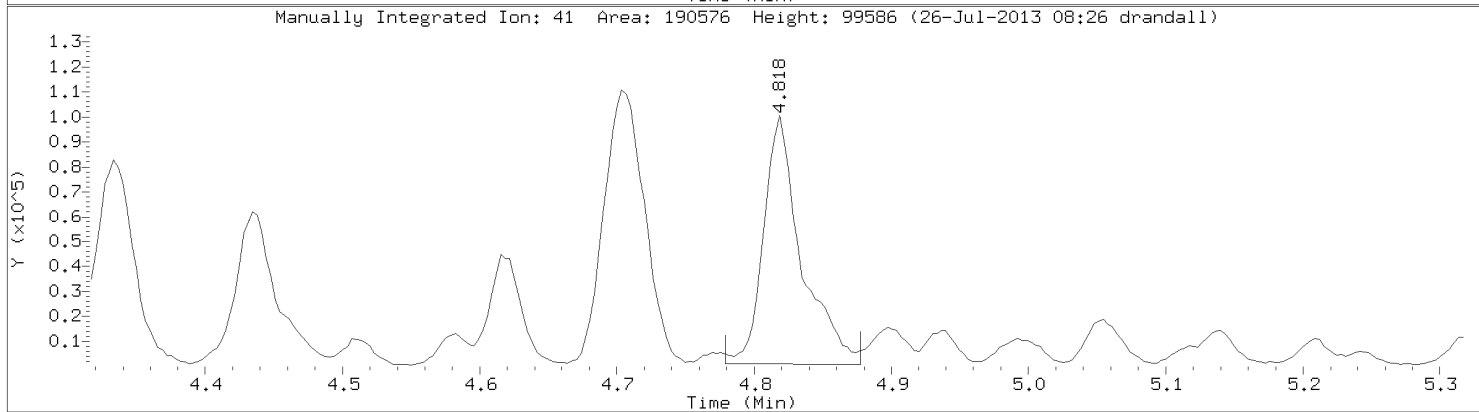
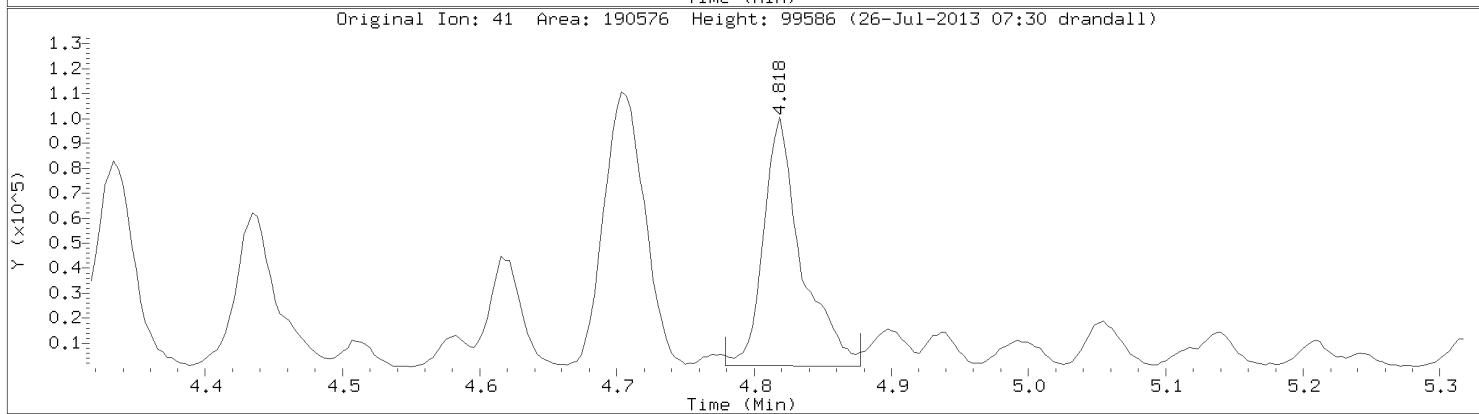
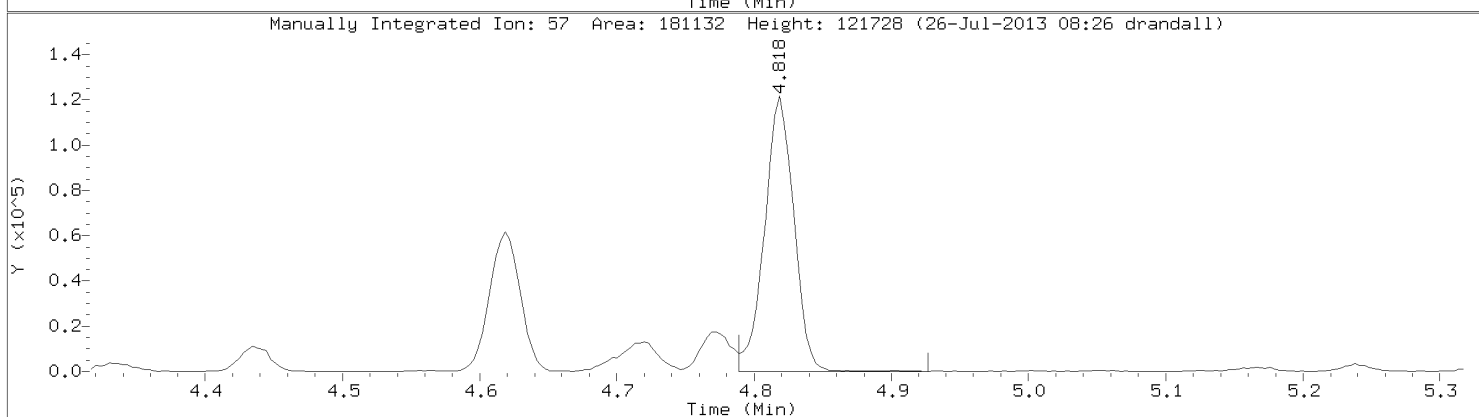
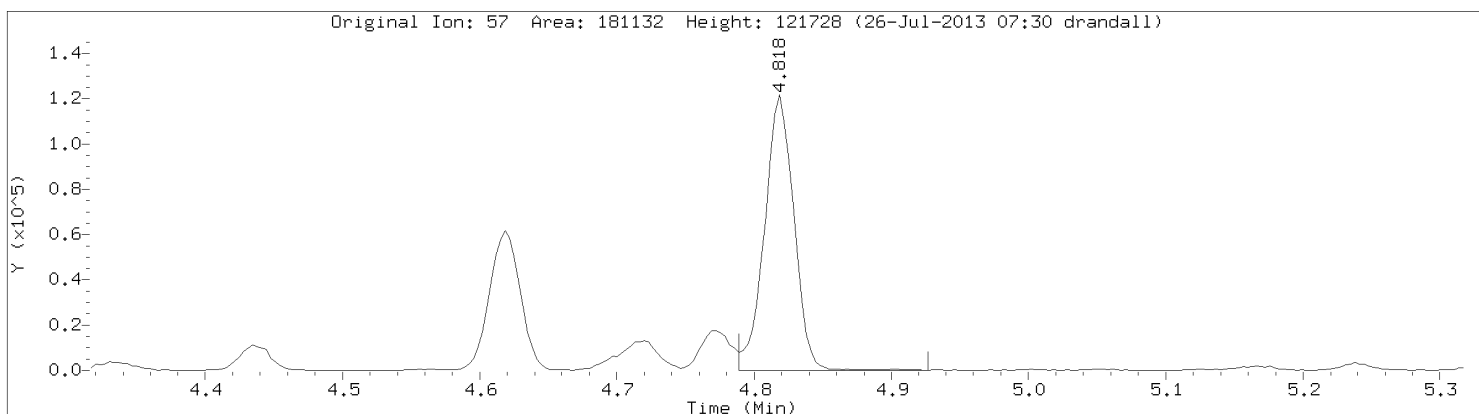


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Injection Date: 26-JUL-2013 02:01
Instrument: 10airD.i
Lab Sample ID: 10236207014

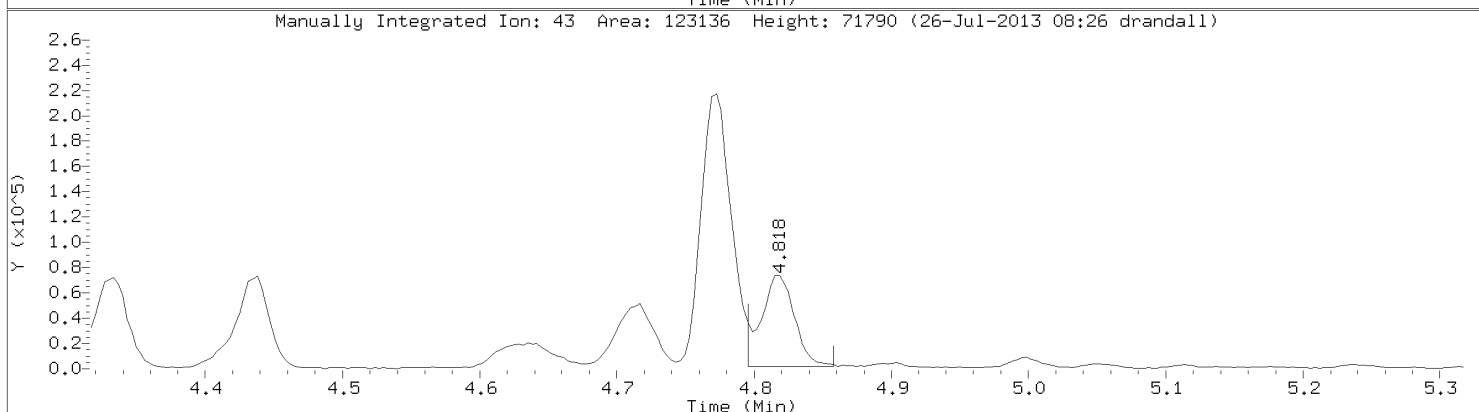
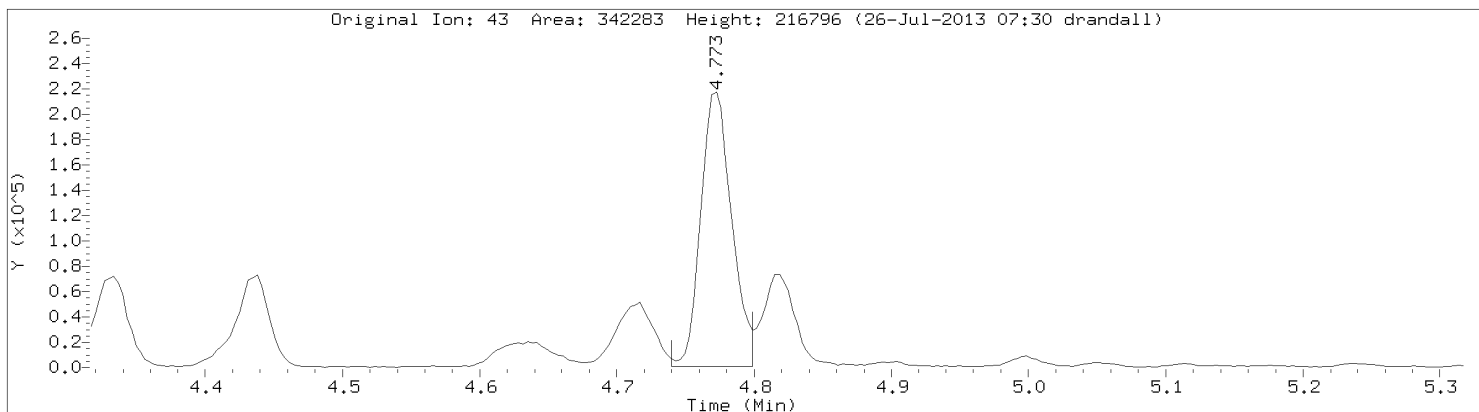


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Injection Date: 26-JUL-2013 02:01
Instrument: 10airD.i
Lab Sample ID: 10236207014

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

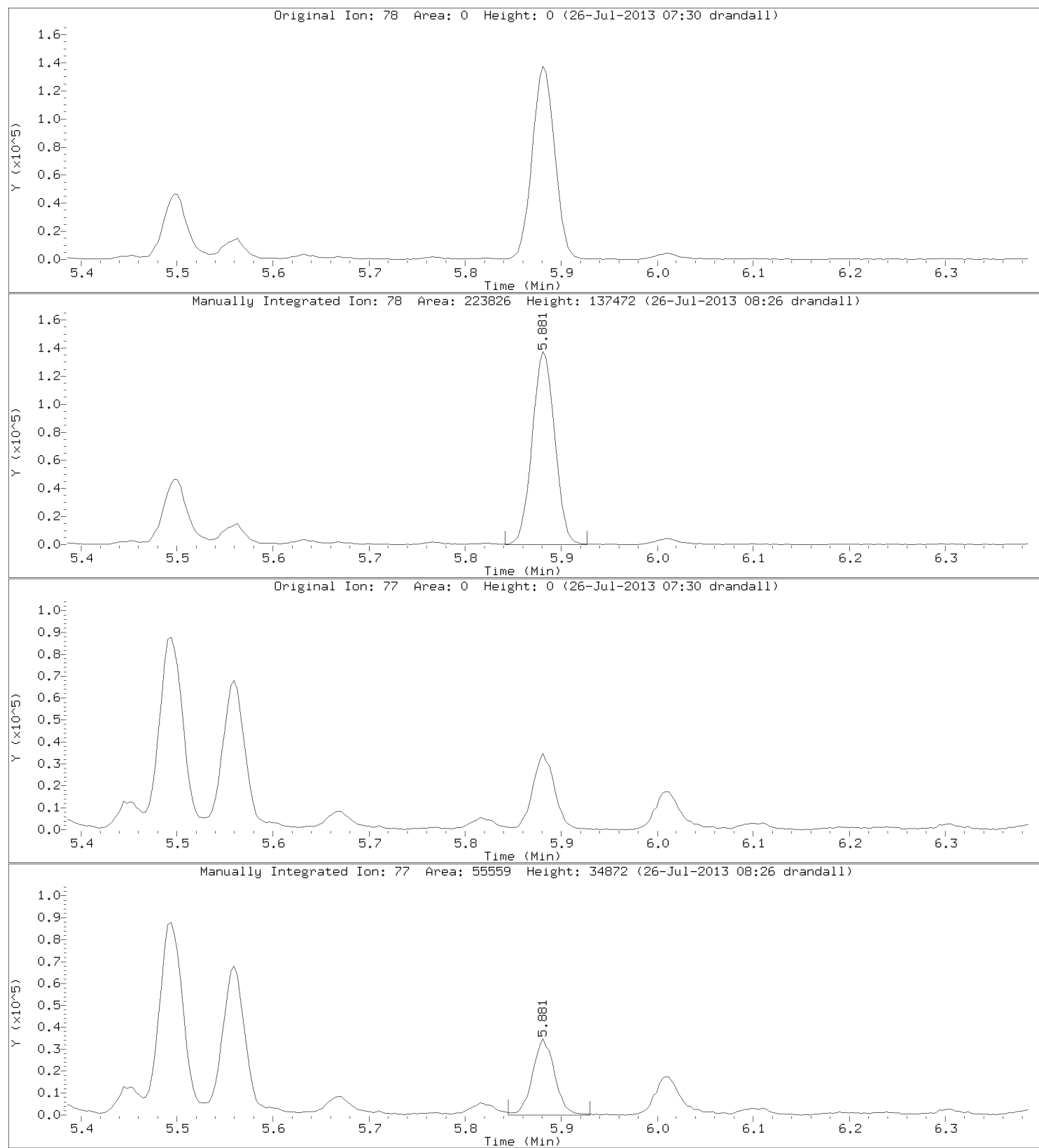


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Injection Date: 26-JUL-2013 02:01
Instrument: 10airD.i
Lab Sample ID: 10236207014

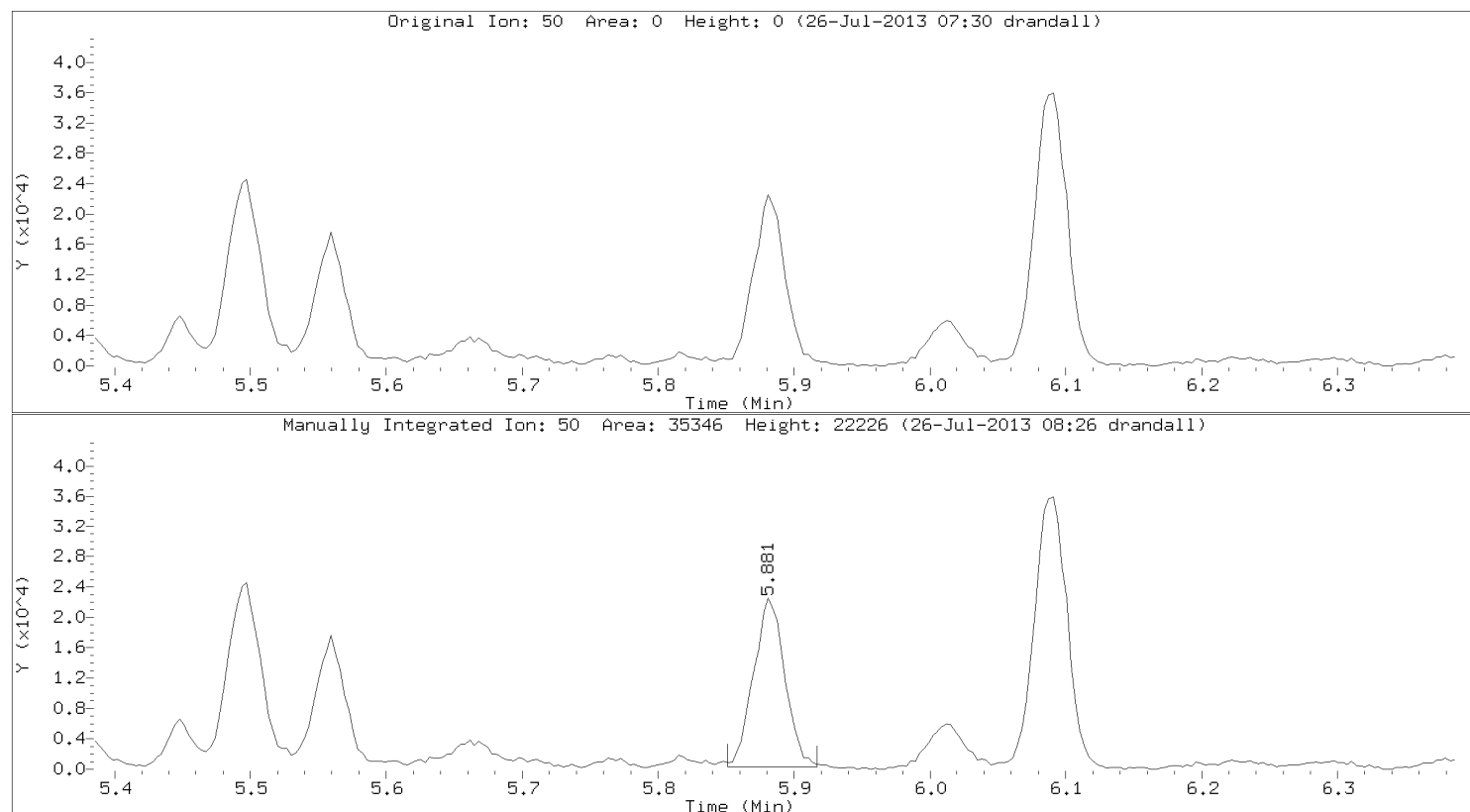


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Injection Date: 26-JUL-2013 02:01
Instrument: 10airD.i
Lab Sample ID: 10236207014

Compound: Benzene
CAS Number: 71-43-2

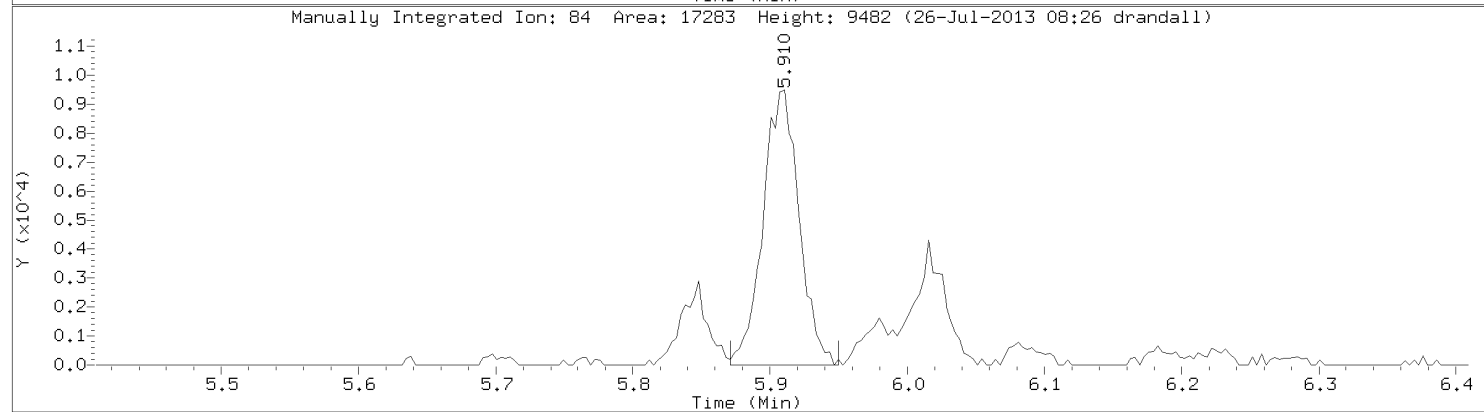
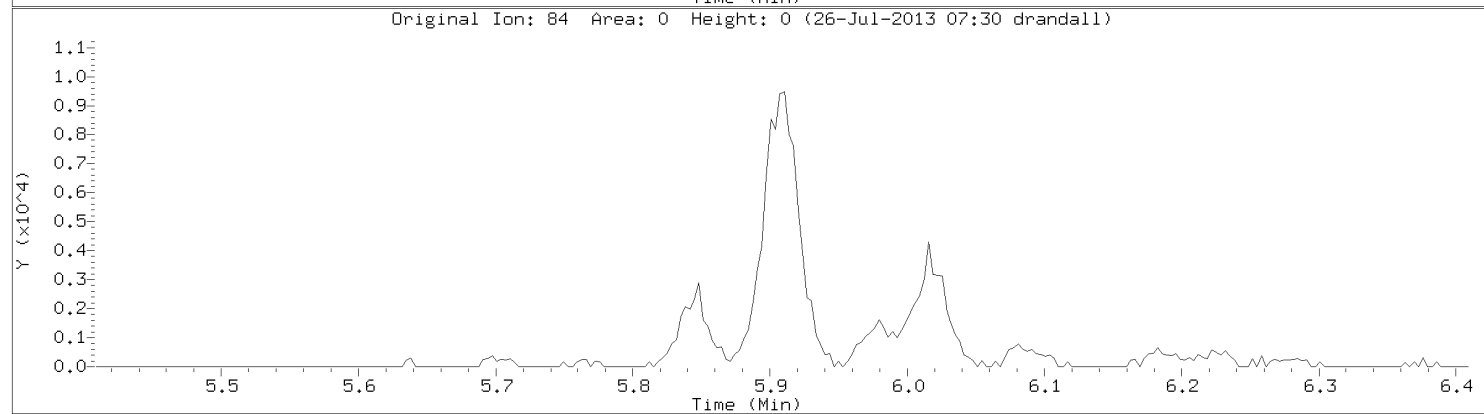
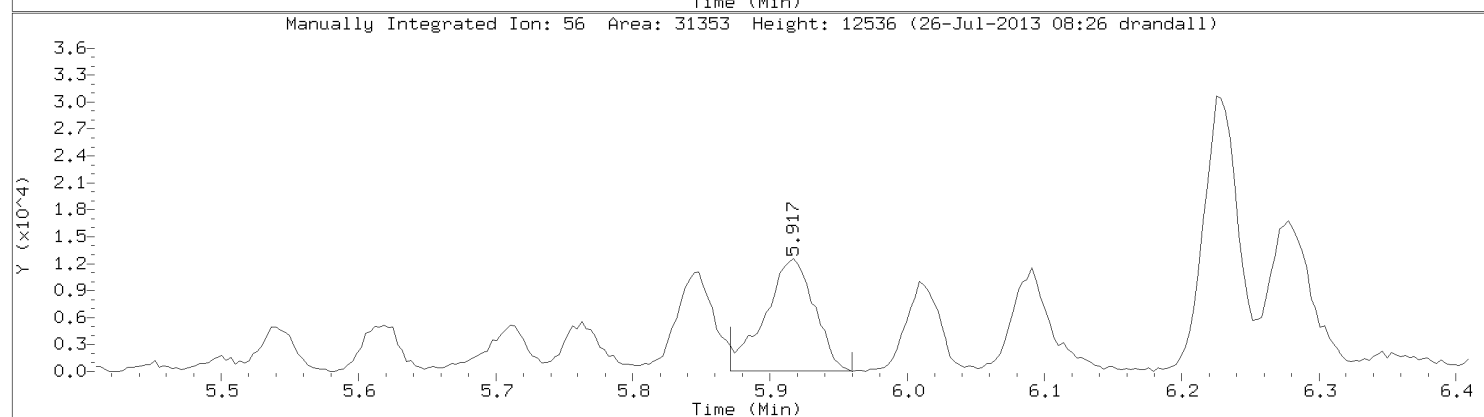
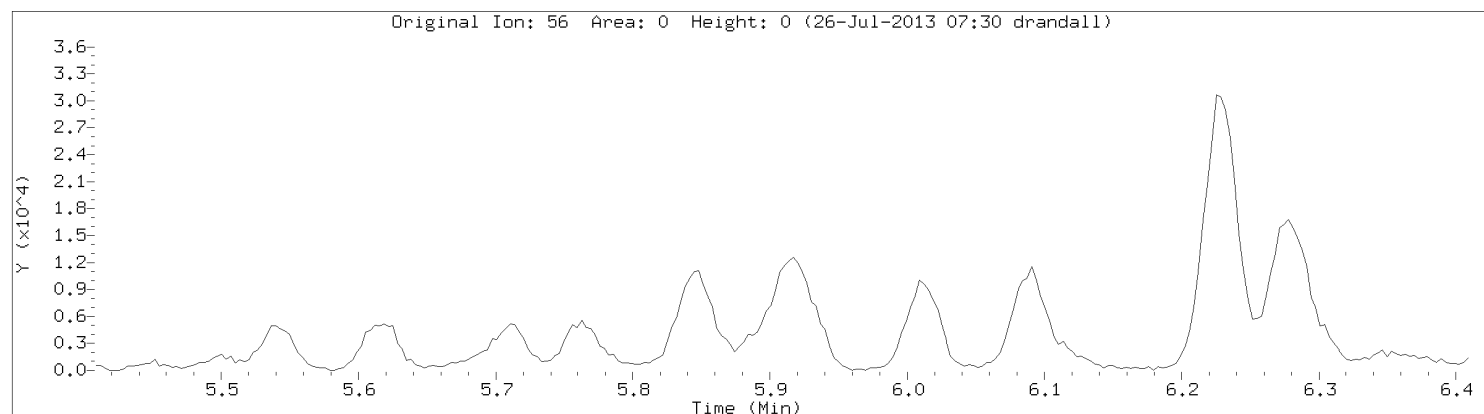


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Injection Date: 26-JUL-2013 02:01
Instrument: 10airD.i
Lab Sample ID: 10236207014

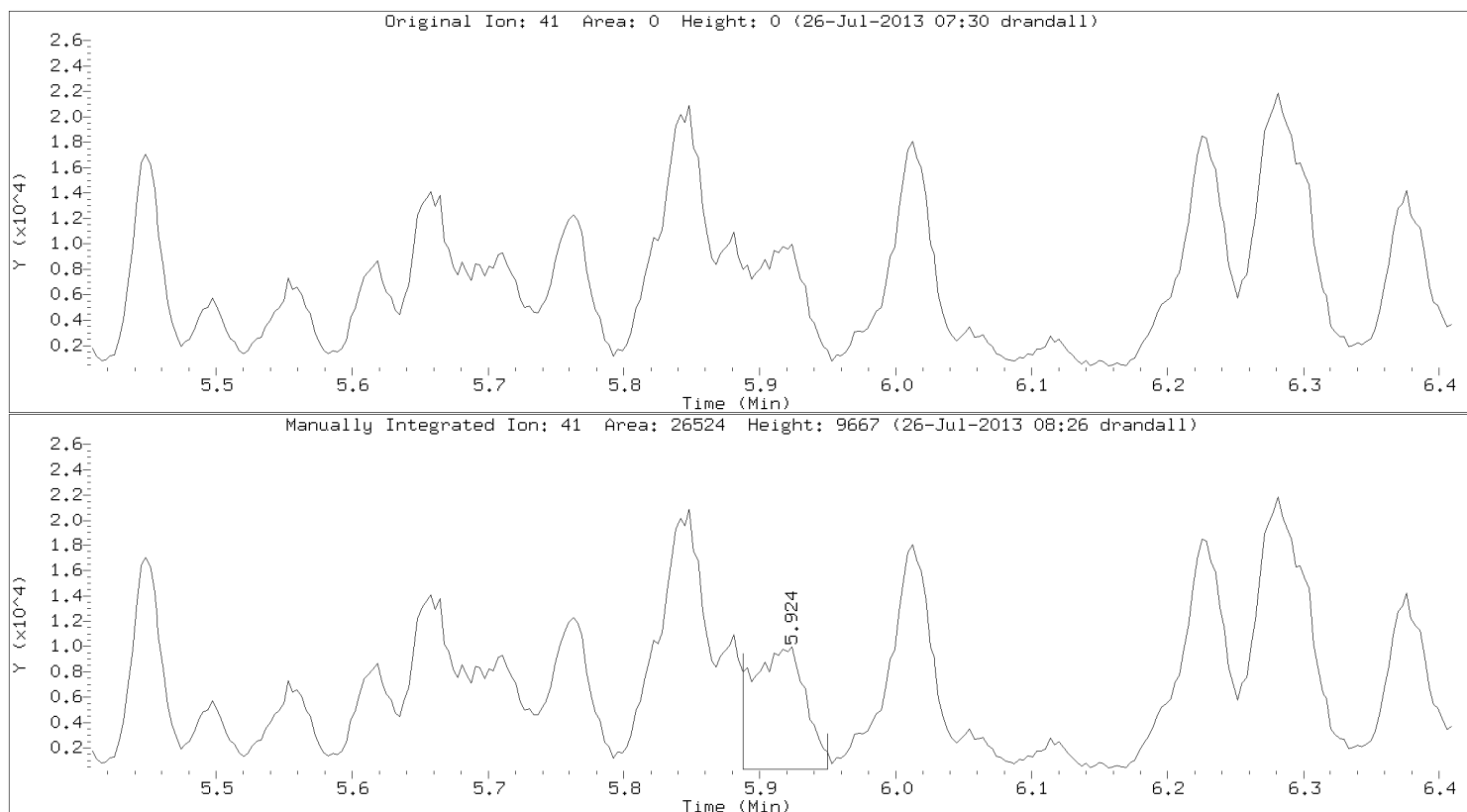


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Injection Date: 26-JUL-2013 02:01
Instrument: 10airD.i
Lab Sample ID: 10236207014

Compound: Cyclohexane
CAS Number: 110-82-7

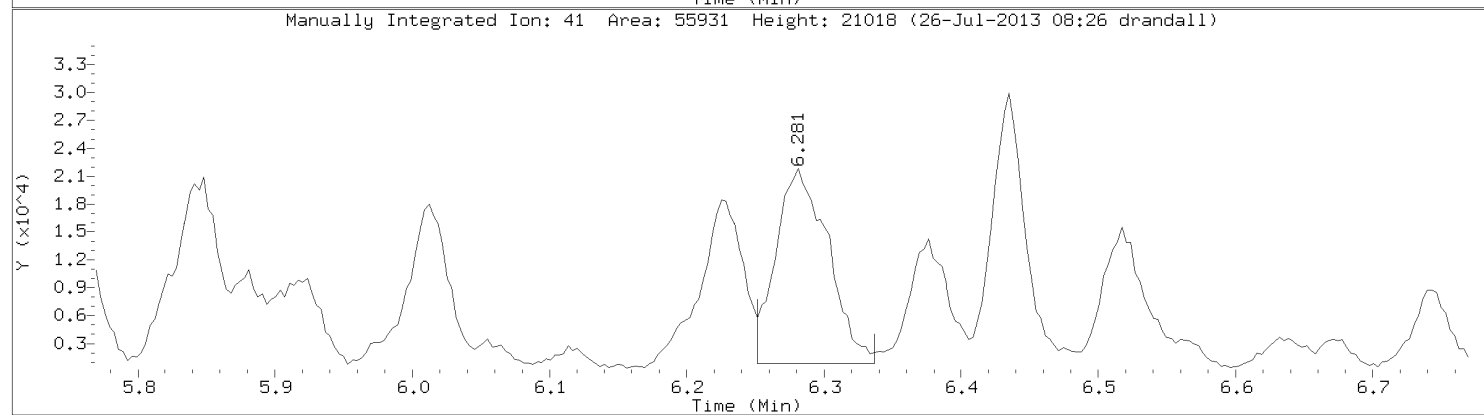
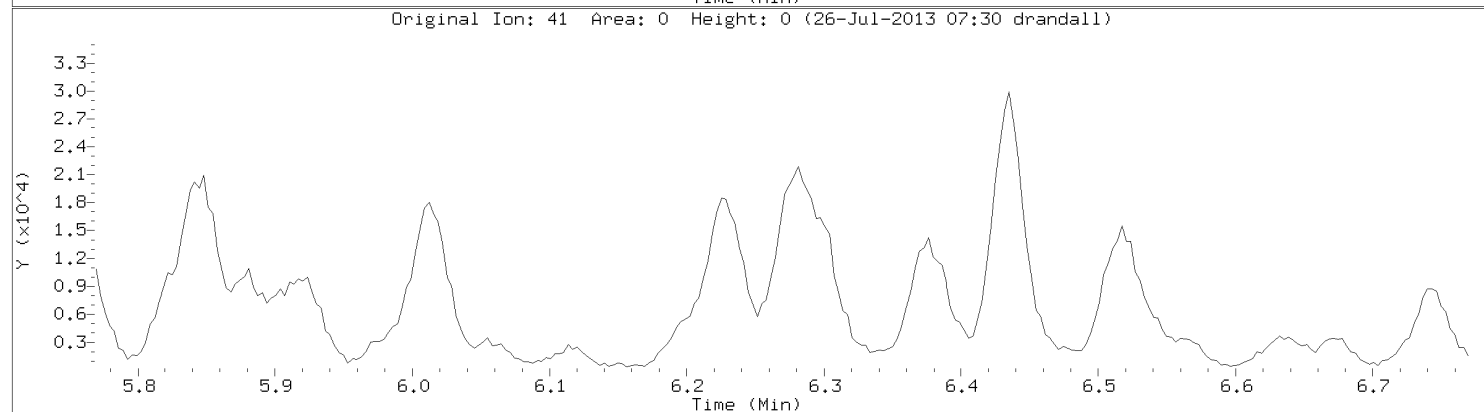
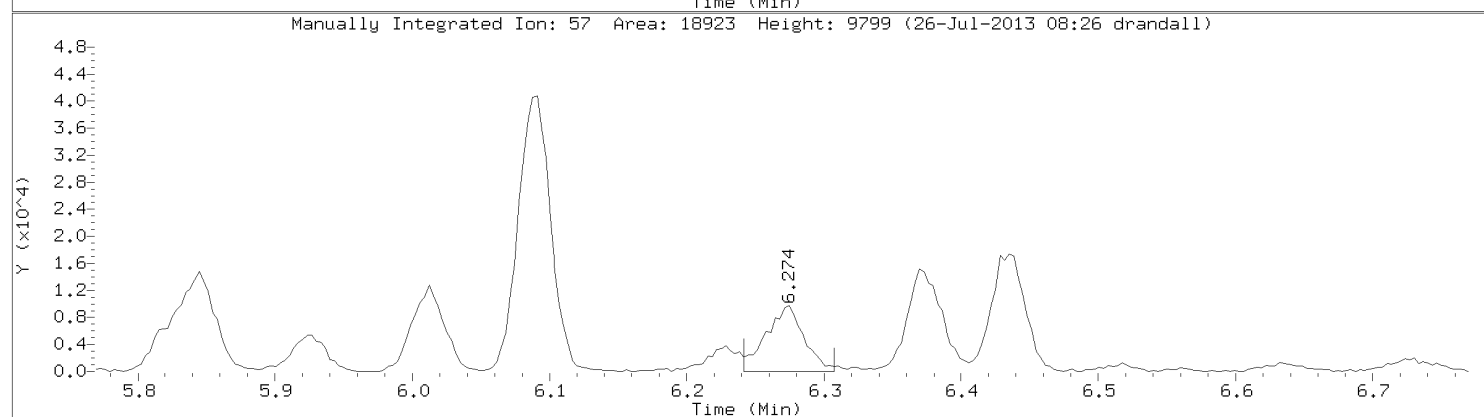
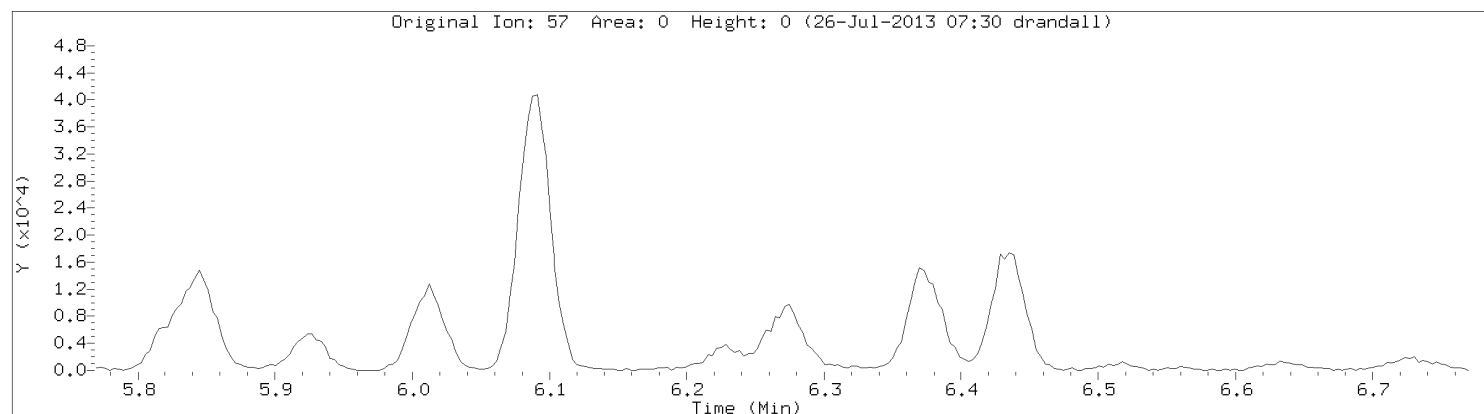


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Injection Date: 26-JUL-2013 02:01
Instrument: 10airD.i
Lab Sample ID: 10236207014

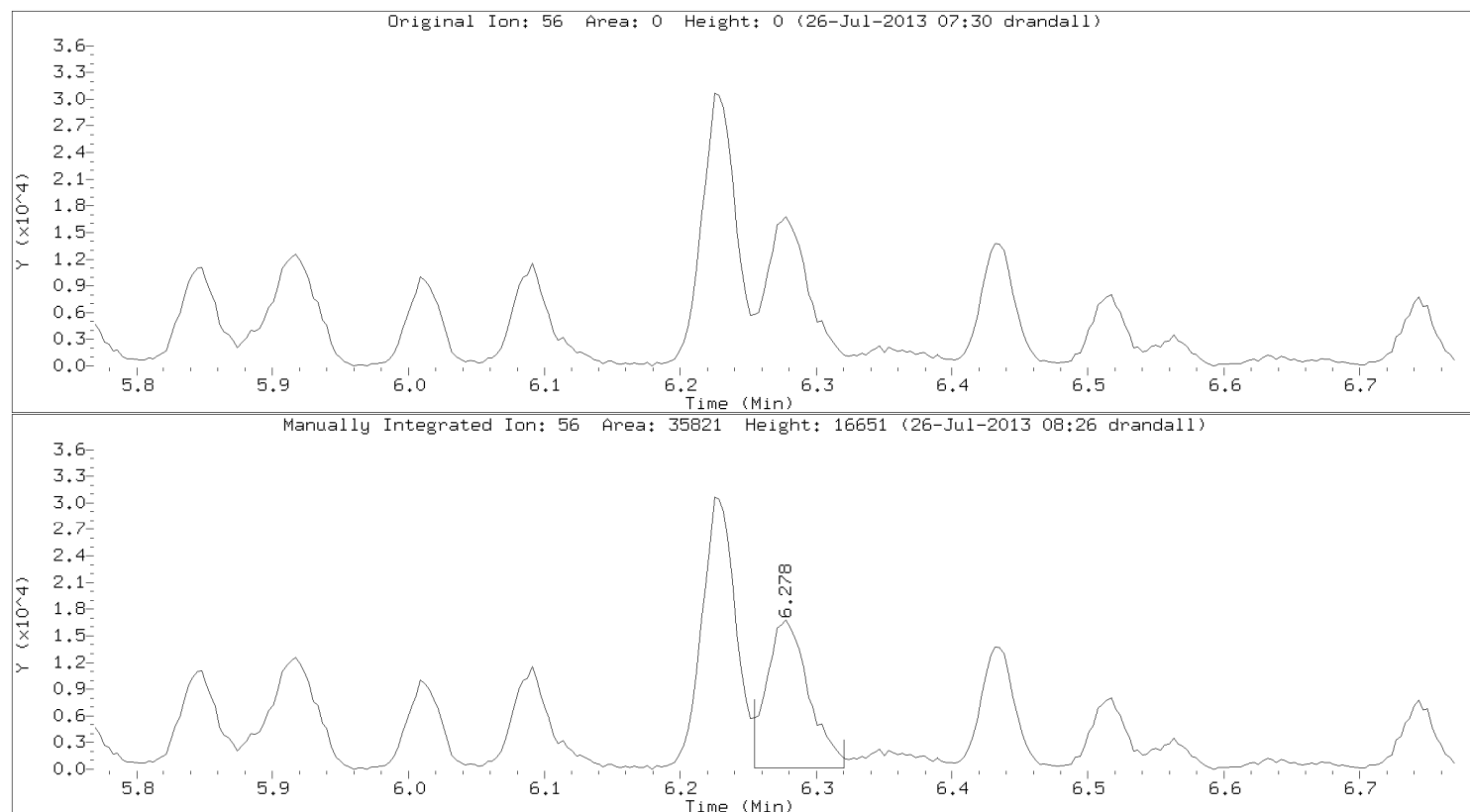


Data File: \\192.168.10.12\chem\10airD.i\072513.b\20627.d
Injection Date: 26-JUL-2013 02:01
Instrument: 10airD.i
Lab Sample ID: 10236207014

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

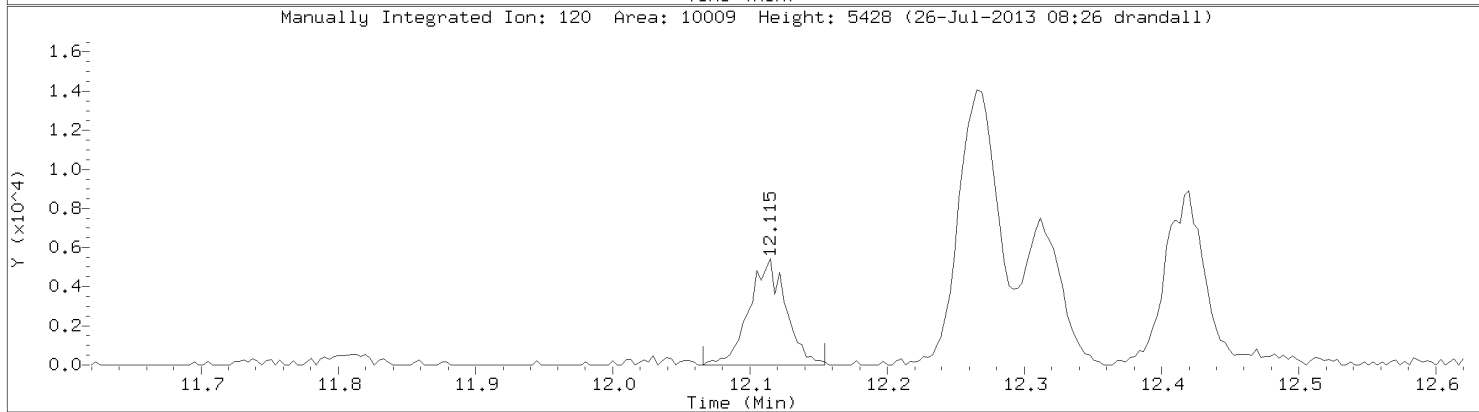
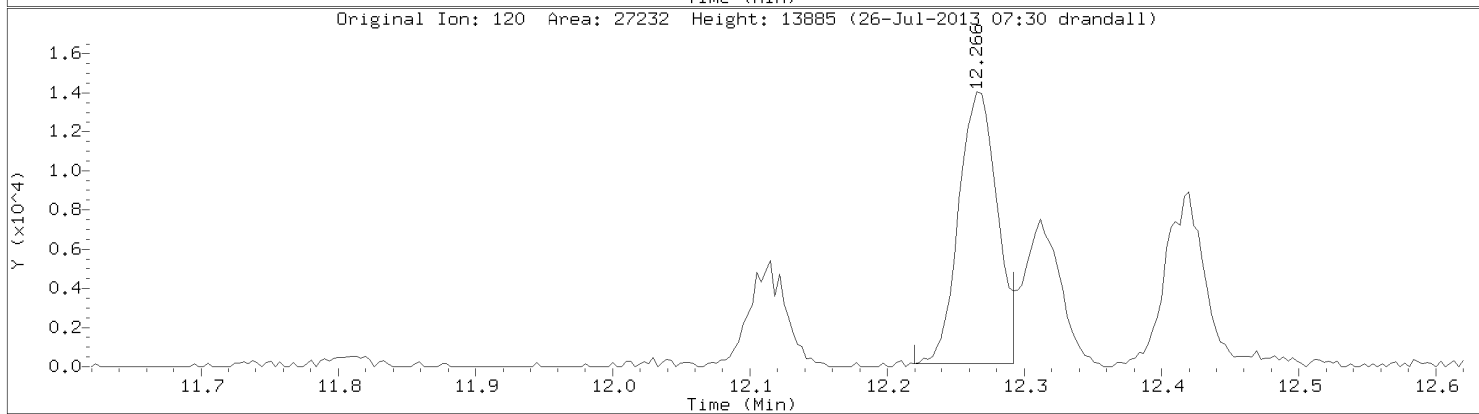
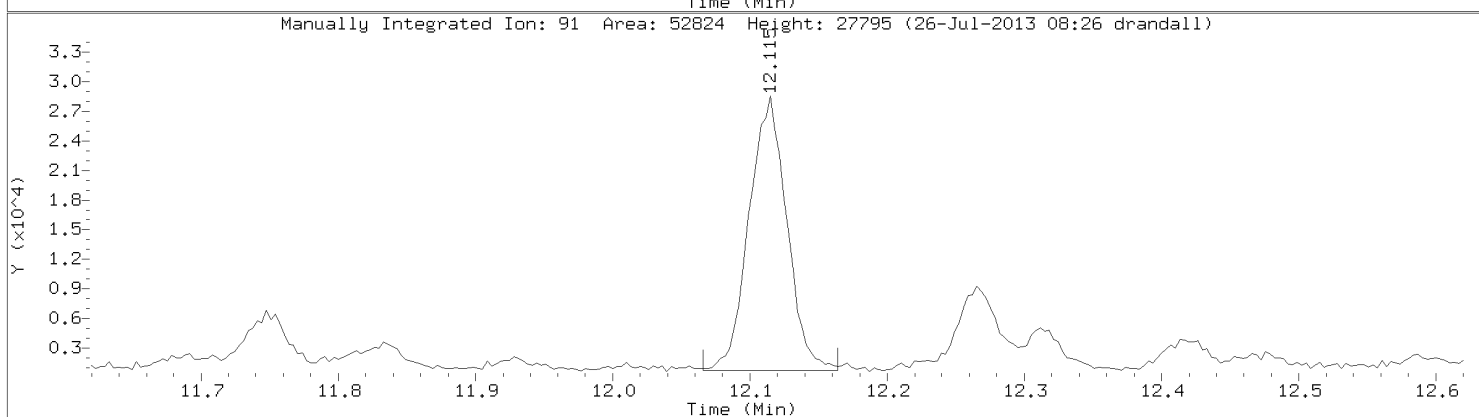
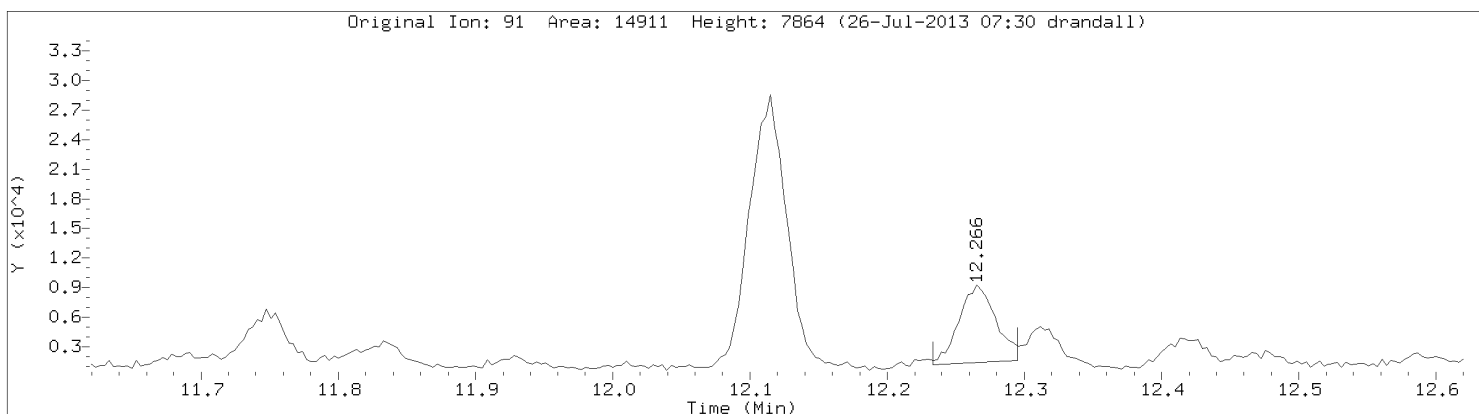


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Injection Date: 26-JUL-2013 02:01
Instrument: 10airD.i
Lab Sample ID: 10236207014



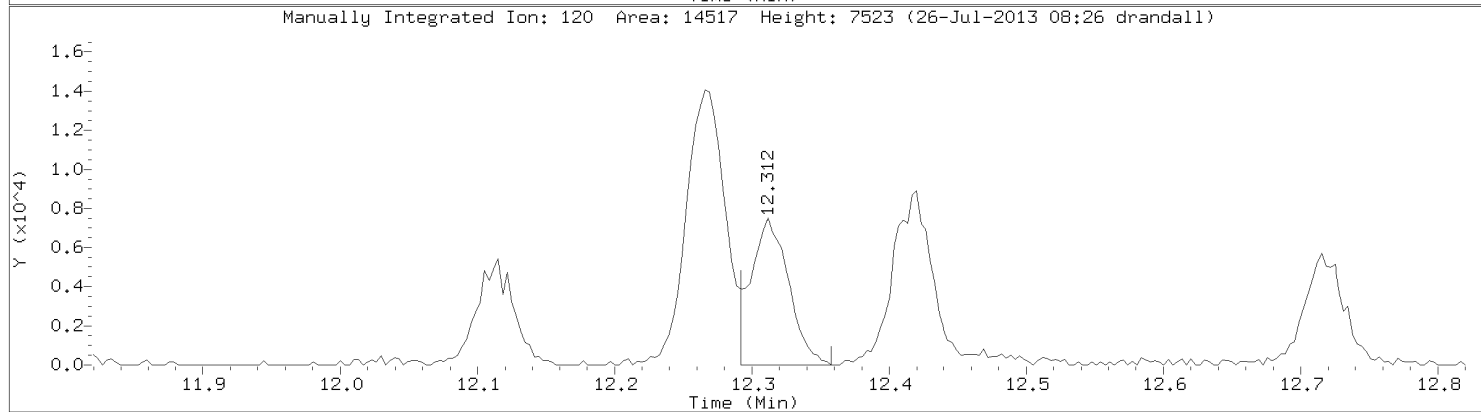
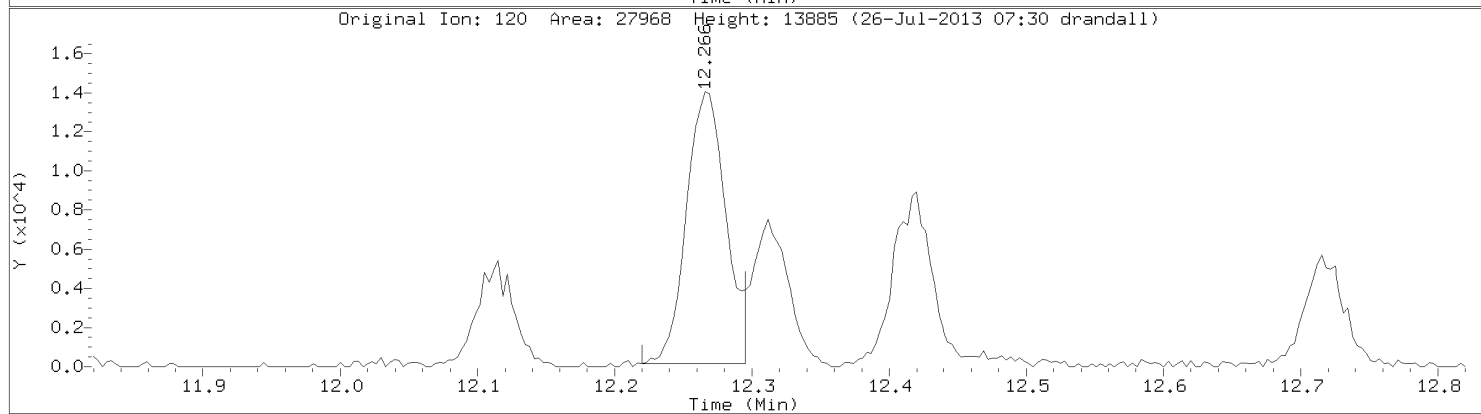
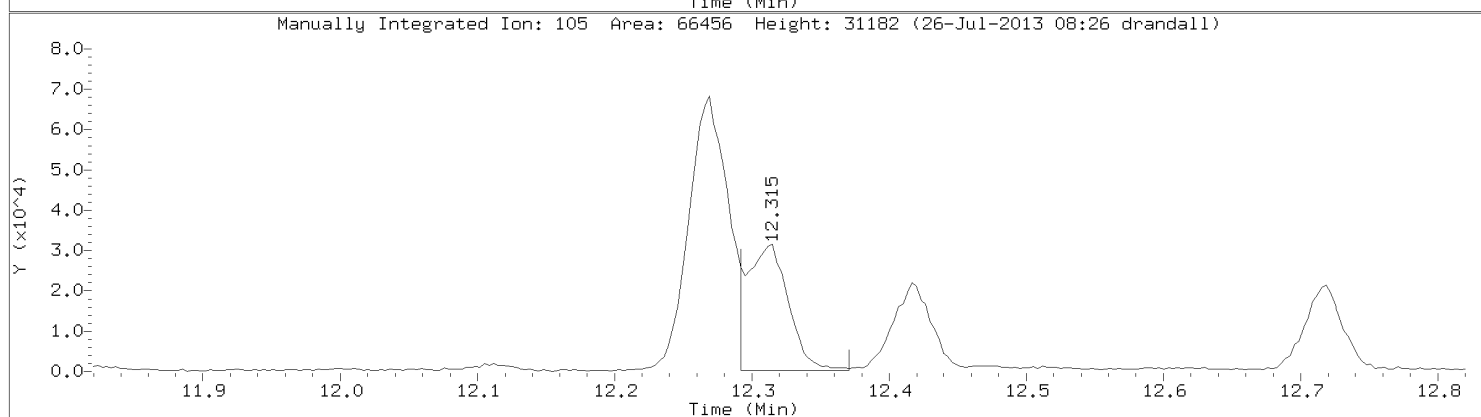
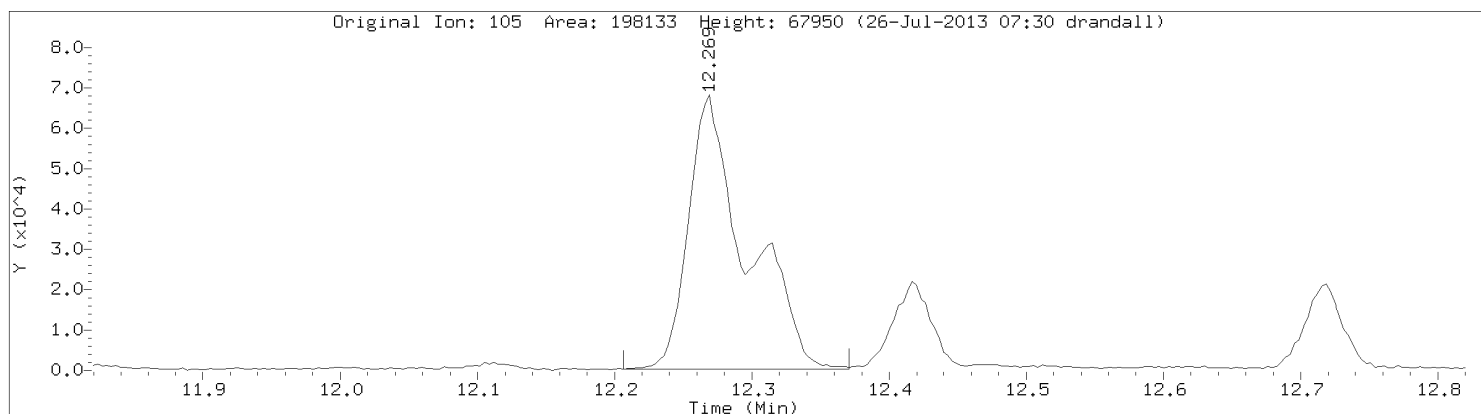
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Injection Date: 26-JUL-2013 02:01
Instrument: 10airD.i
Lab Sample ID: 10236207014

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

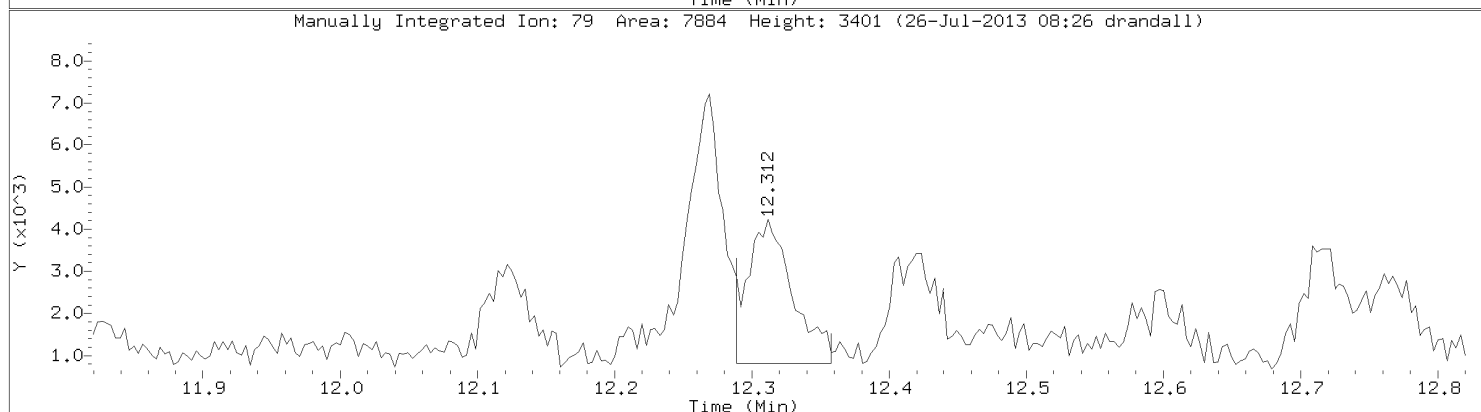
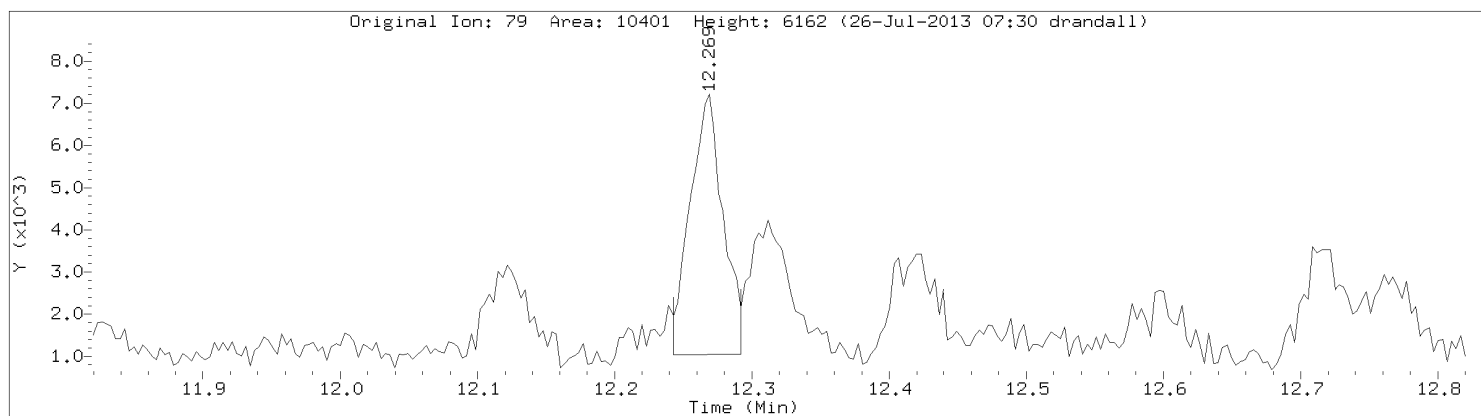


Data File: \\192.168.10.12\chem\10airD.i\072513.b\20627.d
Injection Date: 26-JUL-2013 02:01
Instrument: 10airD.i
Lab Sample ID: 10236207014

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

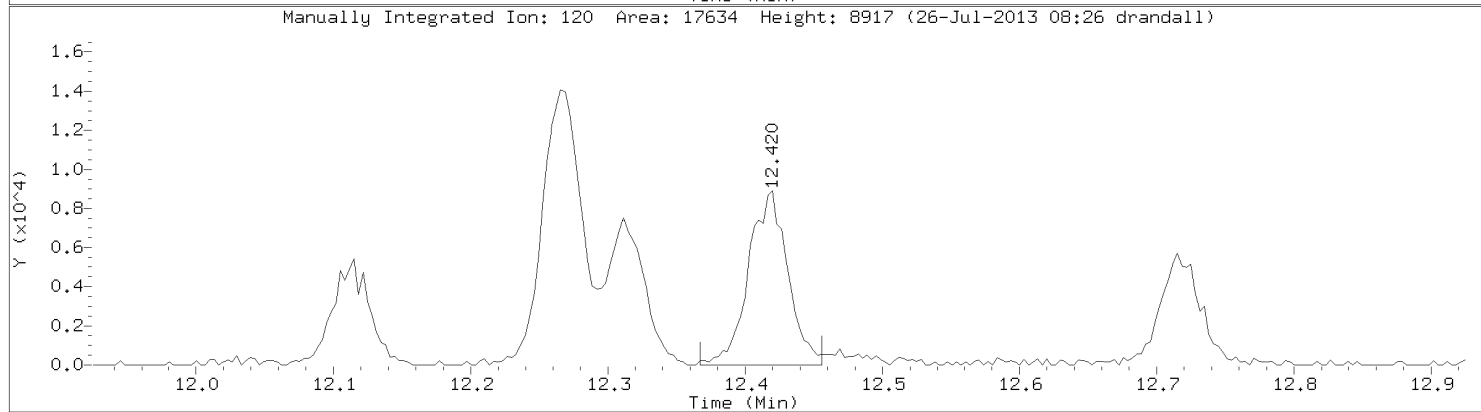
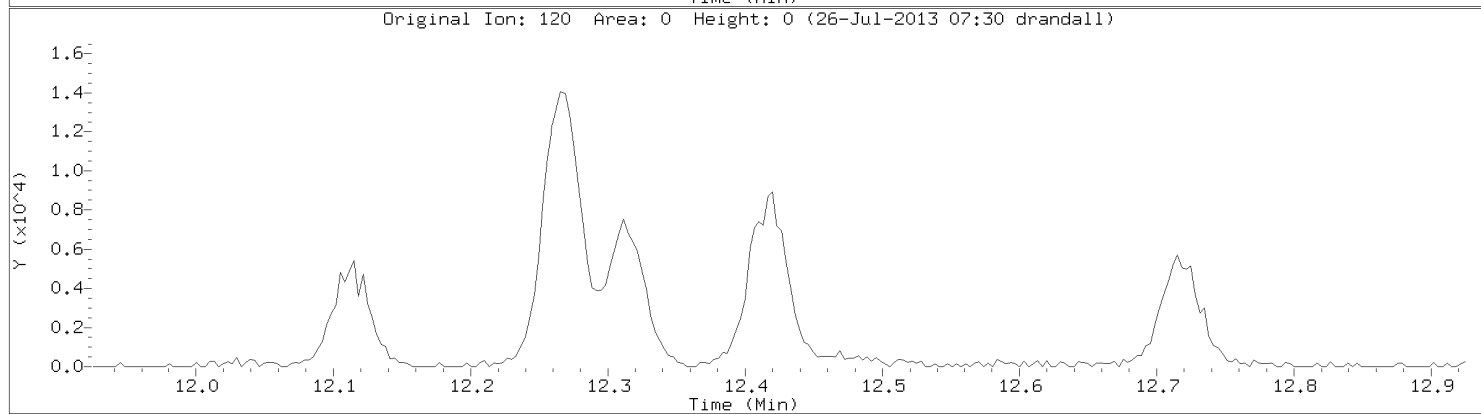
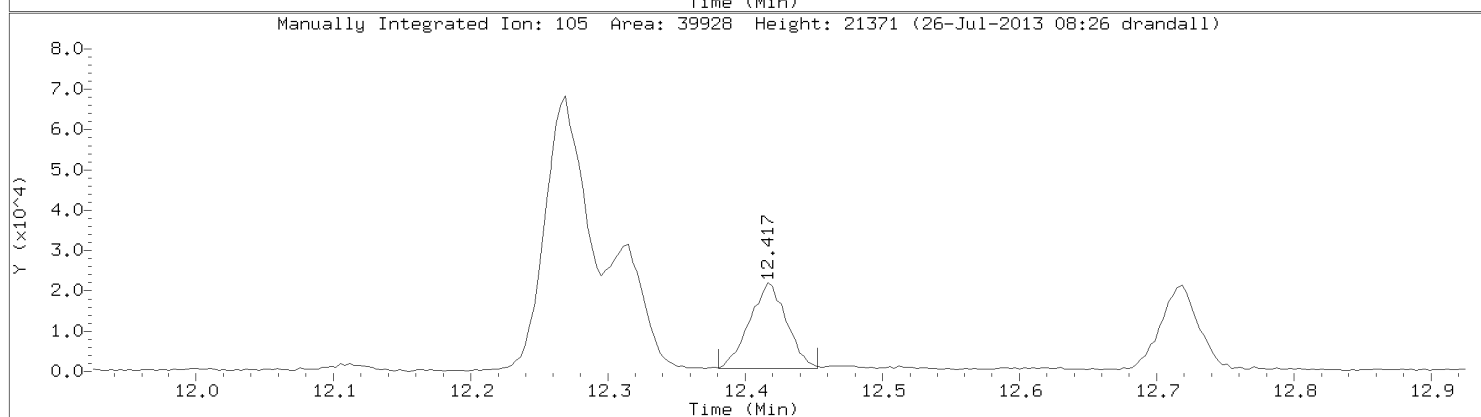
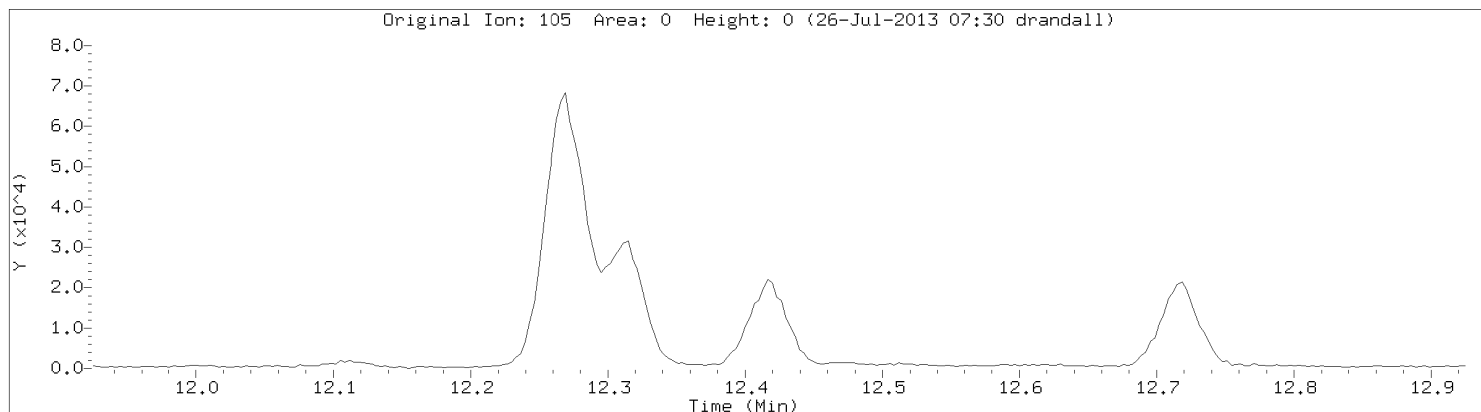


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Injection Date: 26-JUL-2013 02:01
Instrument: 10airD.i
Lab Sample ID: 10236207014



Data File: \\192.168.10.12\chem\10airD.i\072513.b\20627.d
Injection Date: 26-JUL-2013 02:01
Instrument: 10airD.i
Lab Sample ID: 10236207014

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



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072513.b\20633.d
 Lab Smp Id: 10236207015
 Inj Date : 26-JUL-2013 05:04
 Operator : DR1
 Smp Info :
 Misc Info : 17870
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
 Meth Date : 25-Jul-2013 16:57 creindl Quant Type: ISTD
 Cal Date : 24-JUL-2013 16:39 Cal File: 20509.d
 Als bottle: 33
 Dil Factor: 1.44000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: 10AIRPC4

Inst ID: 10airD.i

Compound Sublist: all.sub

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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
1 Propylene	41		2.978	2.982	(0.489)	100231	10.9403	15.8
2 Dichlorodifluoromethane	85		3.001	3.008	(0.493)	26172	0.29505	0.425
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		3.493	3.494	(0.574)	35015	3.31336	4.77 (M)
10 Vinyl Bromide	106							Compound Not Detected.
11 Acrolein	56							Compound Not Detected.
12 Trichlorofluoromethane	101		3.696	3.694	(0.607)	15345	0.15903	0.229
13 Acetone	43		3.726	3.726	(0.612)	413304	8.54498	12.3
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		3.985	3.989	(0.655)	29143	0.57433	0.827 (M)
18 Freon 113	101							Compound Not Detected.
19 Methylene chloride	49		4.093	4.094	(0.672)	1553901	56.7037	81.6 (A)
20 Allyl Chloride	76							Compound Not Detected.
21 Carbon Disulfide	76		4.224	4.224	(0.694)	20199	0.25329	0.365
22 trans-1,2-dichloroethene	96							Compound Not Detected.
23 Methyl Tert Butyl Ether	73							Compound Not Detected.

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
24 Vinyl Acetate	43		Compound Not Detected.					
25 1,1-Dichloroethane	63		Compound Not Detected.					
\$ 26 Hexane-d14 (S)	66		4.697	4.700	(0.772)	303594	8.61709	8.62
27 Methyl Ethyl Ketone	72		4.775	4.779	(0.785)	15170	1.35469	1.95 (M)
28 n-Hexane	57		4.815	4.818	(0.791)	143266	4.47318	6.44
29 cis-1,2-Dichloroethene	96		Compound Not Detected.					
30 Ethyl Acetate	43		4.995	4.999	(0.821)	54266	1.73166	2.49 (Q)
31 Chloroform	83		Compound Not Detected.					
32 Tetrahydrofuran	42		Compound Not Detected.					
33 1,1,1-Trichloroethane	97		Compound Not Detected.					
34 1,2-Dichloroethane	62		Compound Not Detected.					
35 Benzene	78		5.874	5.887	(0.965)	26780	0.78580	1.13
36 Carbon tetrachloride	117		Compound Not Detected.					
37 Cyclohexane	56		Compound Not Detected.					
* 38 1,4-Difluorobenzene	114		6.087	6.094	(1.000)	729594	10.0000	
39 2,2,4-Trimethylpentane	57		6.261	6.271	(1.029)	13711	0.56995	0.821 (M)
40 Heptane	43		6.428	6.442	(1.056)	5678	0.66134	0.952
41 1,2-Dichloropropane	63		Compound Not Detected.					
42 Trichloroethene	130		Compound Not Detected.					
43 1,4-Dioxane	88		Compound Not Detected.					
44 Bromodichloromethane	83		Compound Not Detected.					
45 Methyl Isobutyl Ketone	43		7.232	7.229	(1.188)	3508	0.48817	0.703 (M)
46 cis-1,3-Dichloropropene	75		Compound Not Detected.					
47 trans-1,3-Dichloropropene	75		Compound Not Detected.					
\$ 48 Toluene-d8 (S)	98		7.842	7.848	(1.288)	521174	10.2282	10.2
49 Toluene	91		7.930	7.940	(1.303)	145339	2.04962	2.95
50 1,1,2-Trichloroethane	97		Compound Not Detected.					
51 Methyl Butyl Ketone	43		Compound Not Detected.					
52 Dibromochloromethane	129		Compound Not Detected.					
53 1,2-Dibromoethane	107		Compound Not Detected.					
54 Tetrachloroethene	166		8.911	8.918	(0.920)	2572	0.43769	0.630 (M)
* 55 Chlorobenzene - d5	117		9.685	9.691	(1.000)	275469	10.0000	
56 Chlorobenzene	112		Compound Not Detected.					
57 Ethyl Benzene	91		10.032	10.039	(1.036)	28374	0.57622	0.830
58 m&p-Xylene	91		10.199	10.213	(1.053)	99955	1.44777	2.08
59 Bromoform	173		Compound Not Detected.					
60 Styrene	104		Compound Not Detected.					
61 o-Xylene	91		10.777	10.783	(1.113)	34002	0.57978	0.835 (M)
62 1,1,2,2-Tetrachloroethane	83		Compound Not Detected.					
63 Isopropylbenzene	105		Compound Not Detected.					
64 N-Propylbenzene	91		Compound Not Detected.					
65 4-Ethyltoluene	105		12.315	12.321	(1.272)	17115	0.49784	0.717 (M)
66 1,3,5-Trimethylbenzene	105		12.423	12.426	(1.283)	11463	0.42806	0.616 (M)
67 1,2,4-Trimethylbenzene	105		13.023	13.020	(1.345)	49924	0.95764	1.38 (M)
68 1,3-Dichlorobenzene	146		Compound Not Detected.					
69 Sec- Butylbenzene	105		Compound Not Detected.					
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.456	13.459	(1.389)	112284	10.0982	10.1
71 Benzyl Chloride	91		Compound Not Detected.					
72 1,4-Dichlorobenzene	146		Compound Not Detected.					
73 1,2-Dichlorobenzene	146		Compound Not Detected.					
74 N-Butylbenzene	91		Compound Not Detected.					
75 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
76 Naphthalene	128		16.863	16.860	(1.741)	13984	0.68175	0.982 (M)
77 Hexachlorobutadiene	225		Compound Not Detected.					

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20633.d
Report Date: 26-Jul-2013 10:30

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
	MASS					ON-COLUMN	FINAL
=====	====	====	=====	=====	=====	=====	

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\072513.b\20633.d
Report Date: 26-Jul-2013 10:30

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airD.i
Lab File ID: 20633.d
Lab Smp Id: 10236207015
Analysis Type: VOA
Quant Type: ISTD
Operator: DR1
Method File: \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
Misc Info: 17870

Calibration Date: 25-JUL-2013
Calibration Time: 13:08

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 4.
If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	729594	25.84
55 Chlorobenzene - d	221404	132842	309966	275469	24.42

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	-0.05
55 Chlorobenzene - d	9.69	9.36	10.02	9.69	-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\072513.b\20633.D

Date : 26-JUL-2013 05:04

Client ID:

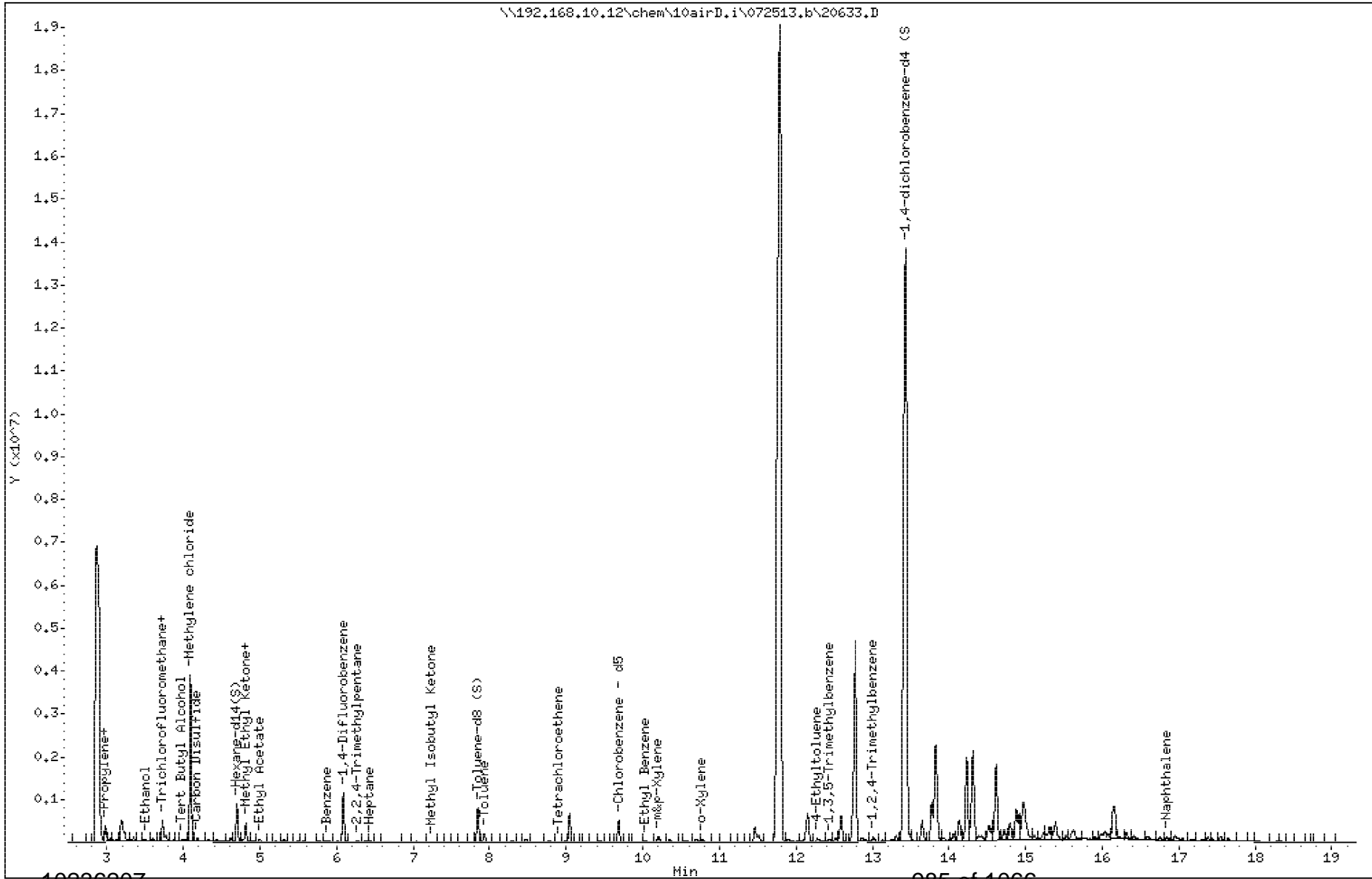
Instrument: 10airD.i

Sample Info:

Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20633.D

Date : 26-JUL-2013 05:04

Client ID:

Instrument: 10airD.i

Sample Info:

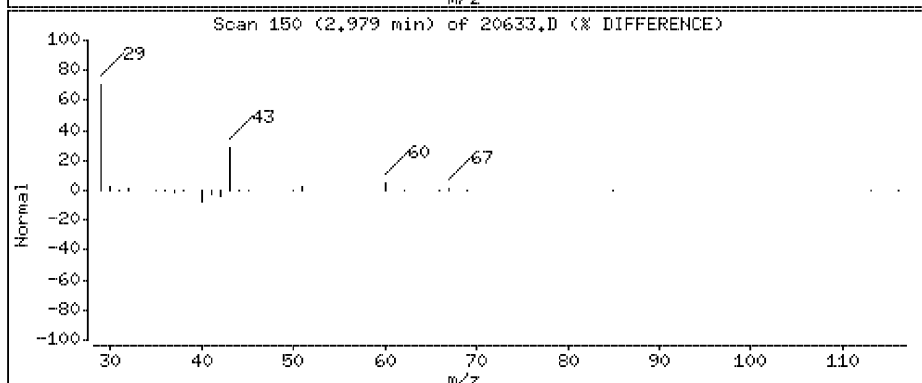
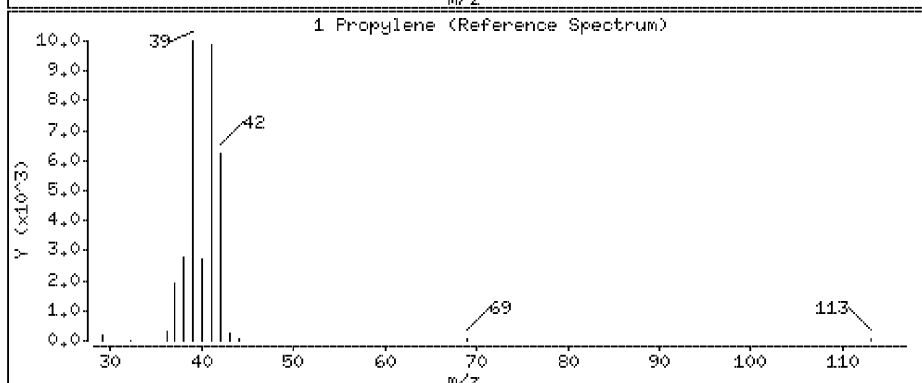
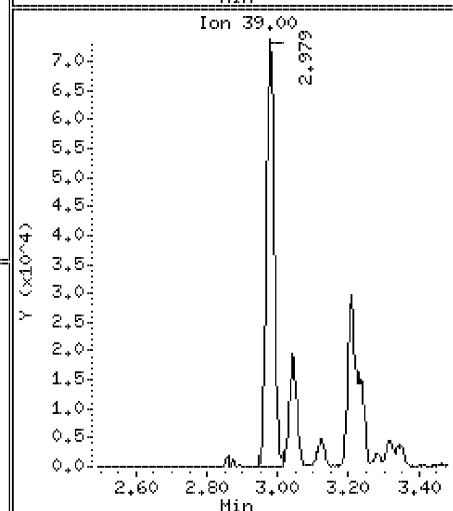
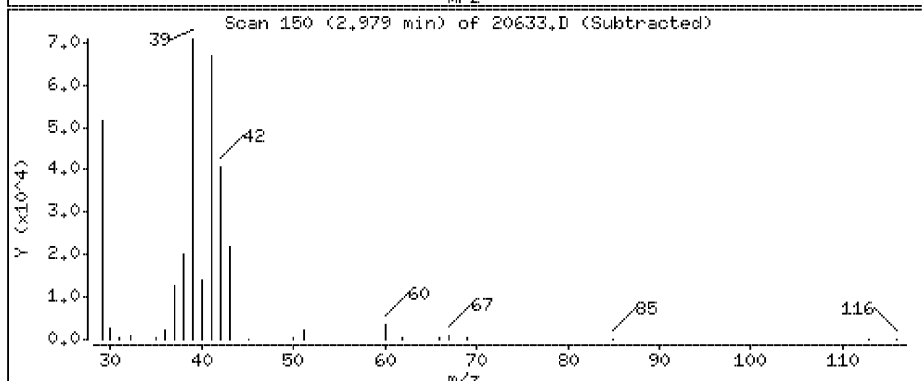
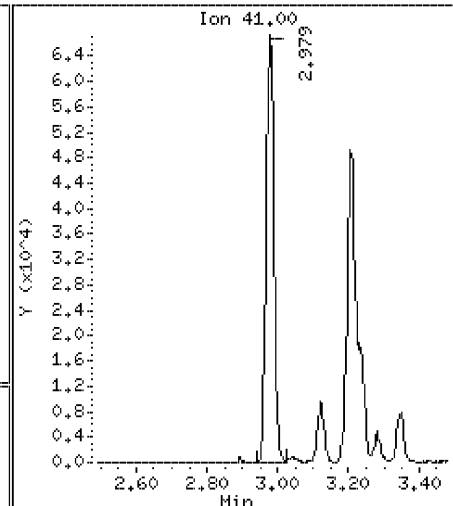
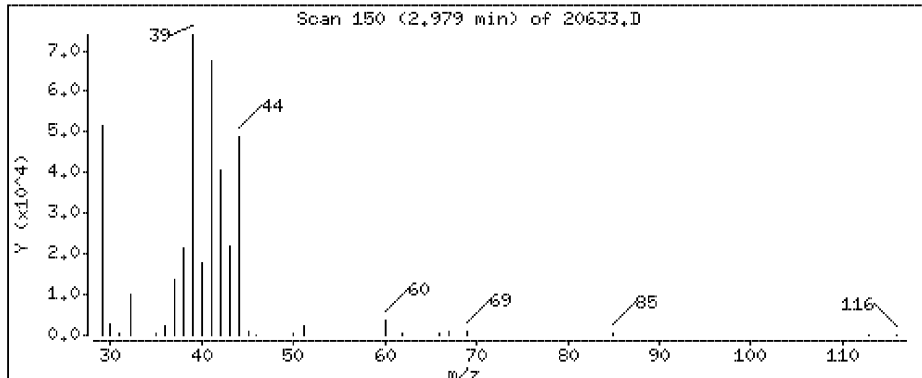
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

1 Propylene

Concentration: 15,8 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20633.D

Date : 26-JUL-2013 05:04

Client ID:

Instrument: 10airD.i

Sample Info:

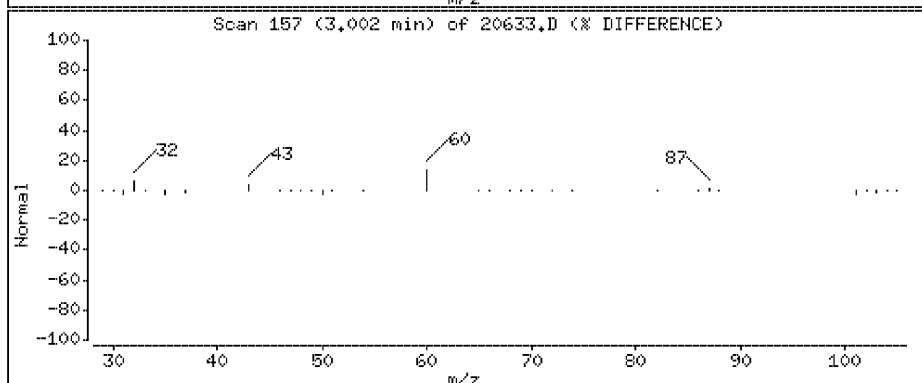
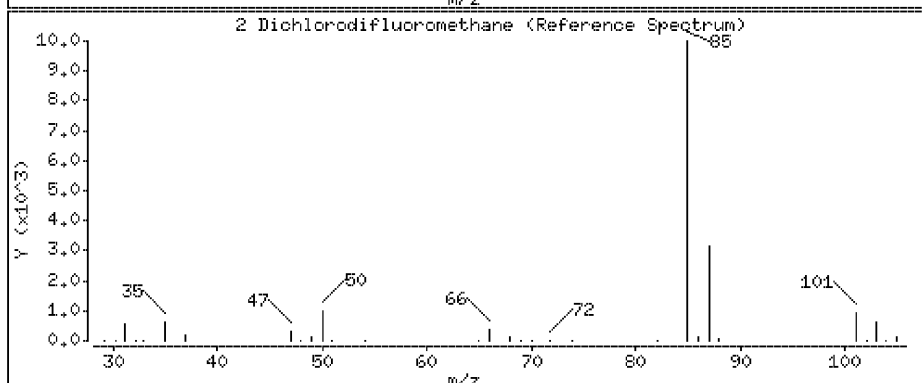
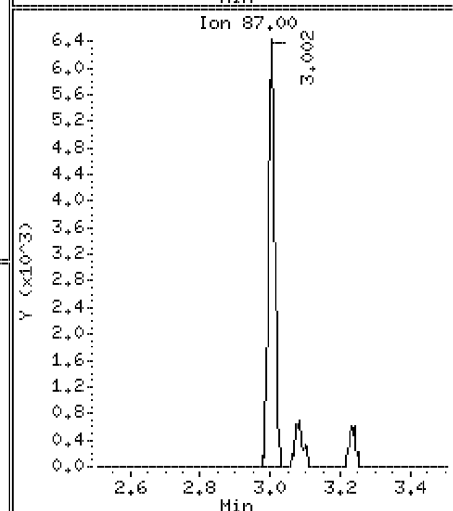
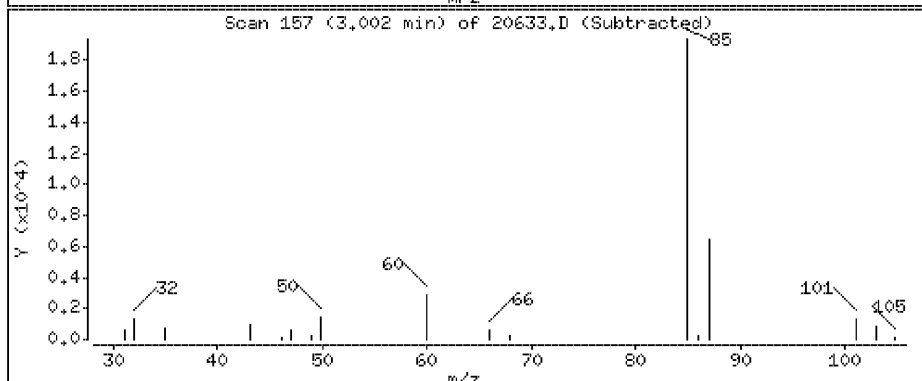
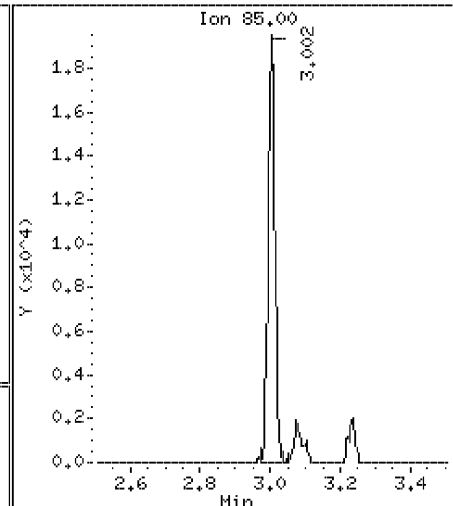
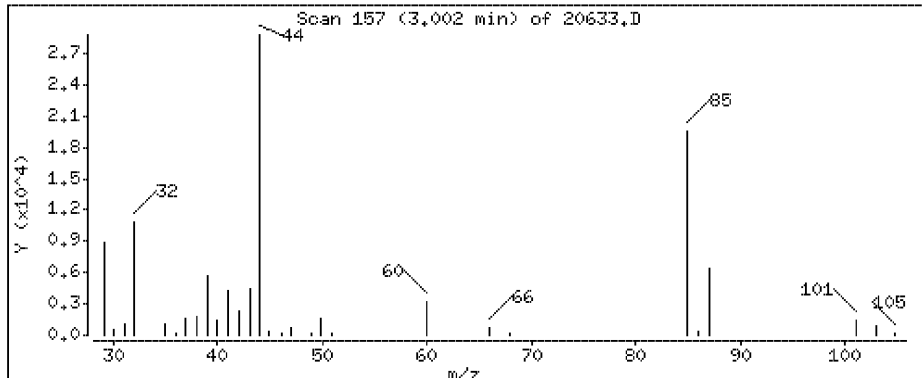
Operator: DR1

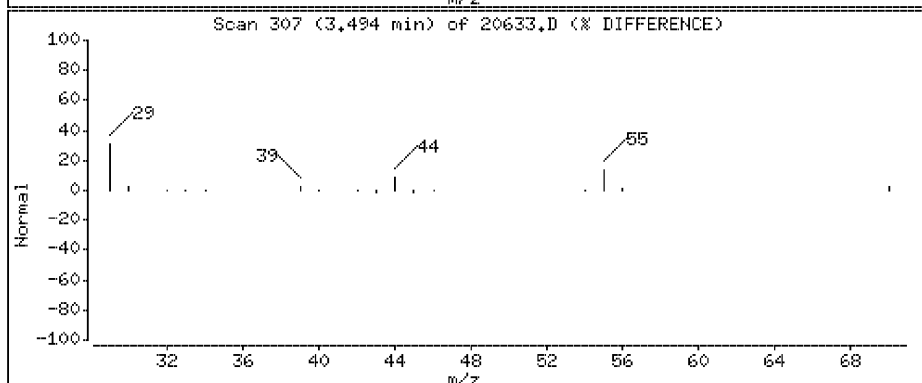
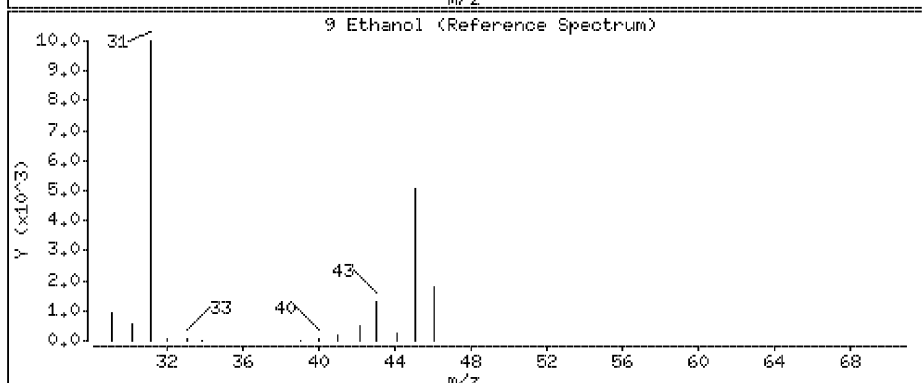
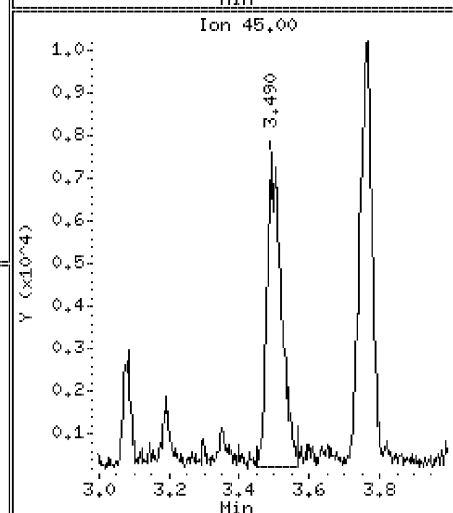
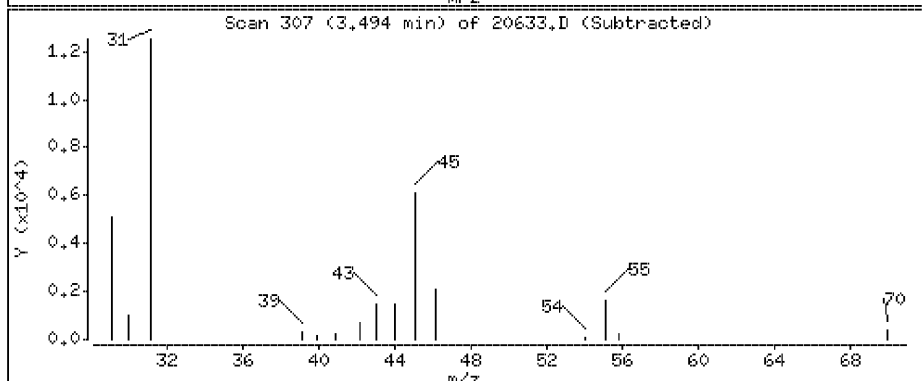
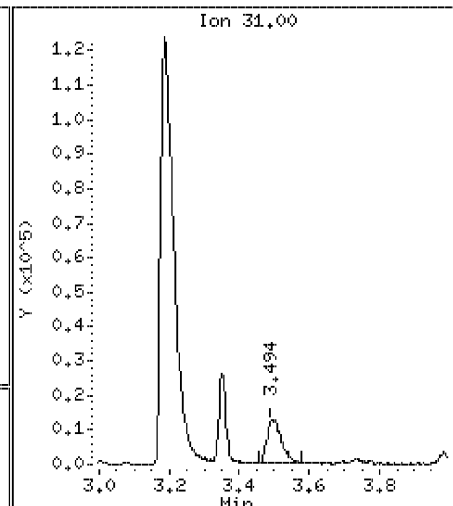
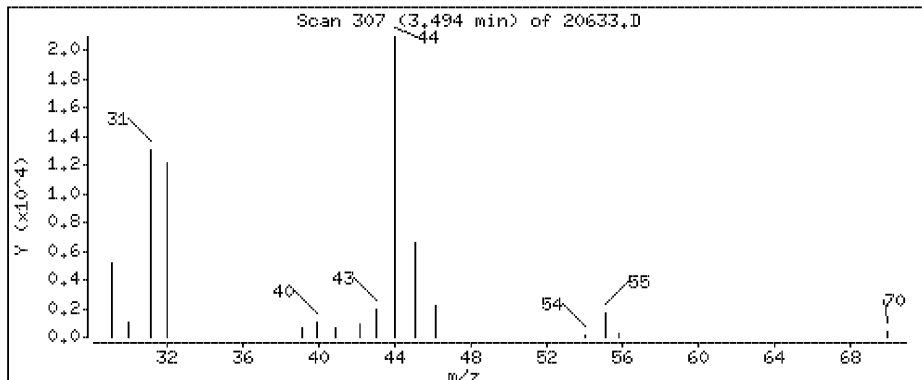
Column phase: J&W DB-5

Column diameter: 0.32

2 Dichlorodifluoromethane

Concentration: 0.425 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20633.D

Date : 26-JUL-2013 05:04

Client ID:

Instrument: 10airD.i

Sample Info:

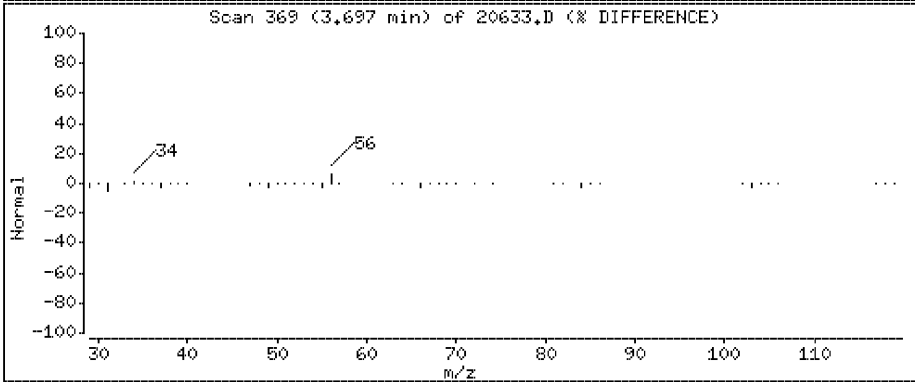
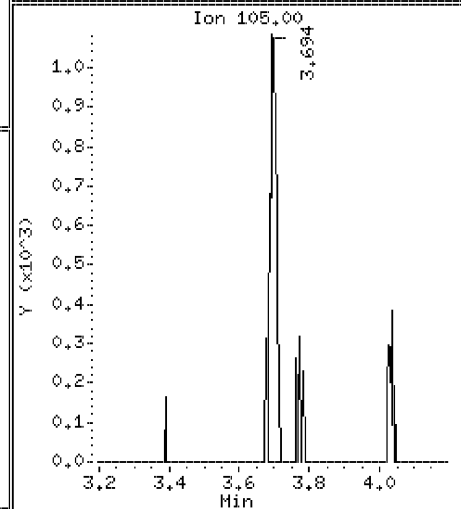
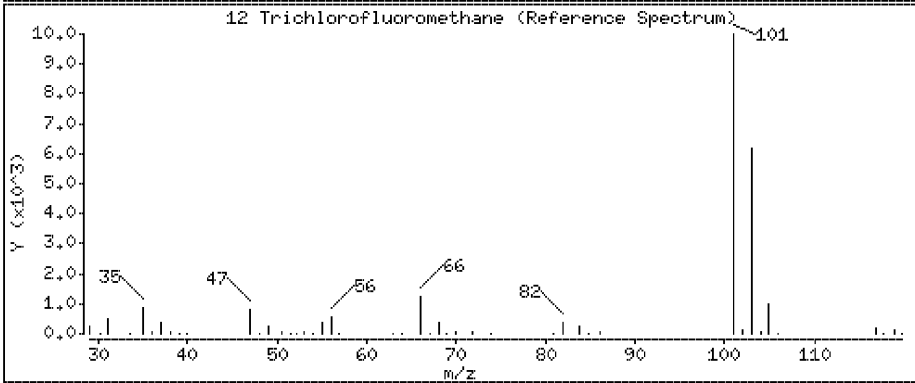
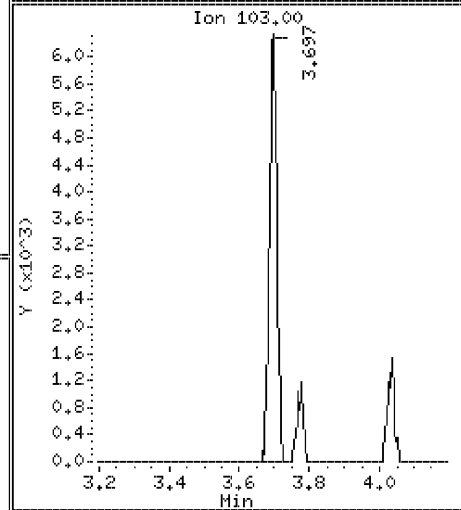
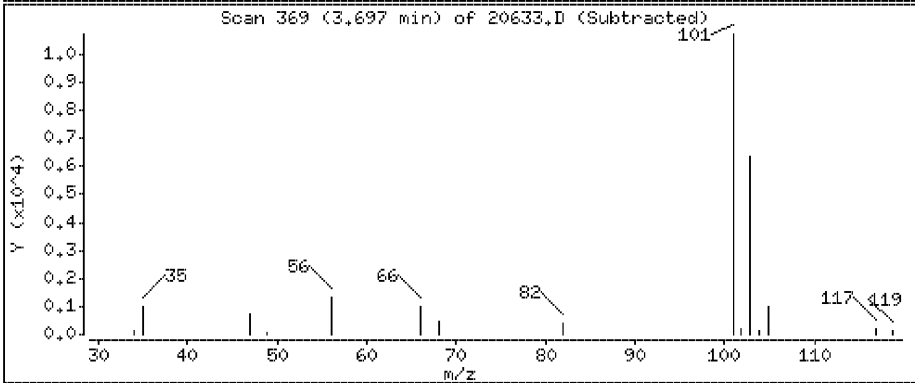
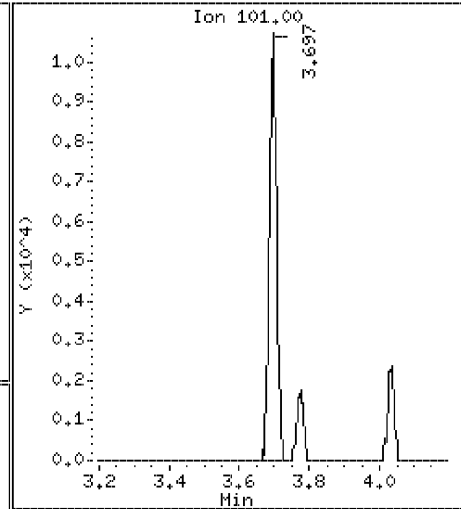
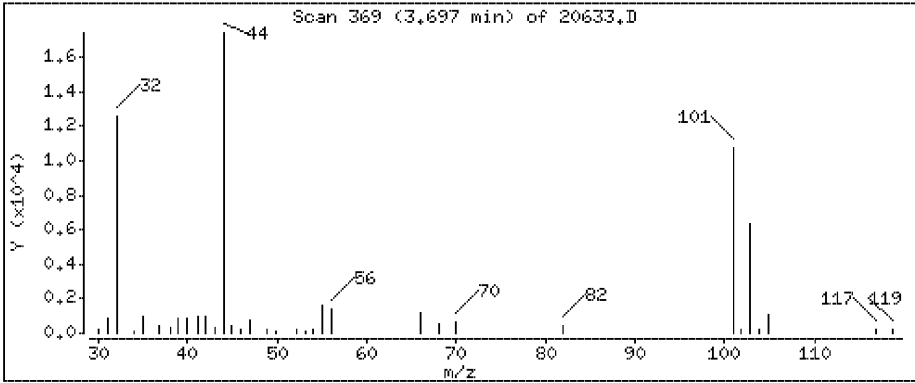
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

12 Trichlorofluoromethane

Concentration: 0.229 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20633.D

Date : 26-JUL-2013 05:04

Client ID:

Instrument: 10airD.i

Sample Info:

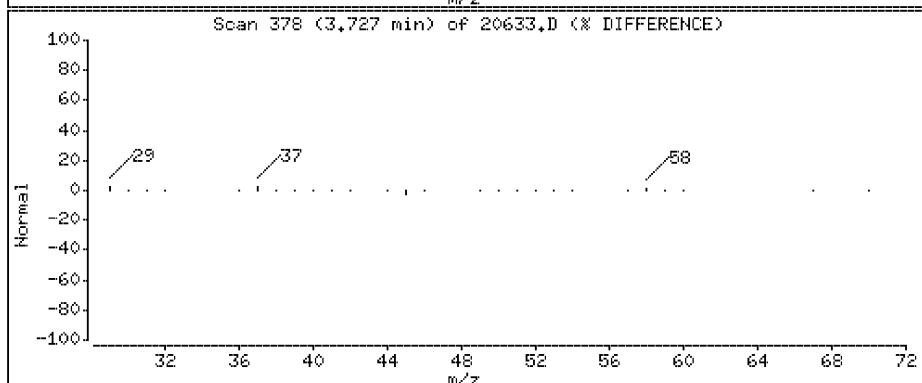
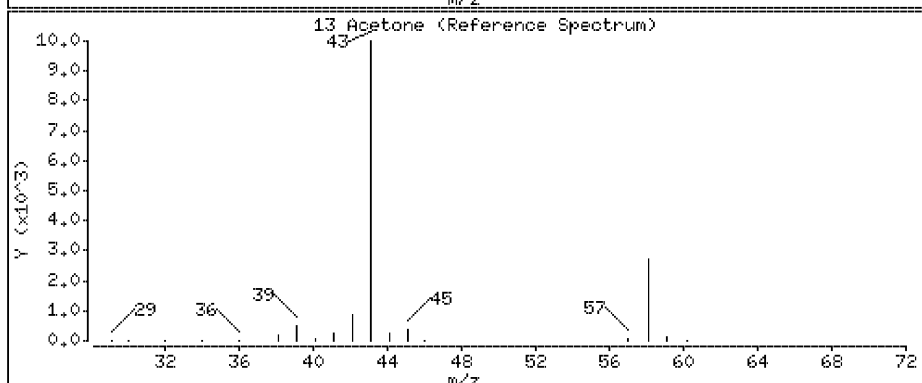
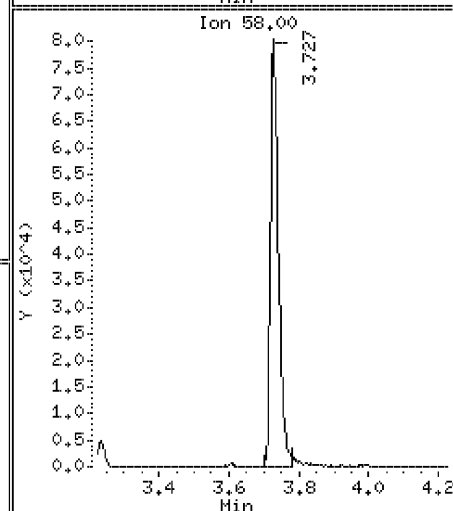
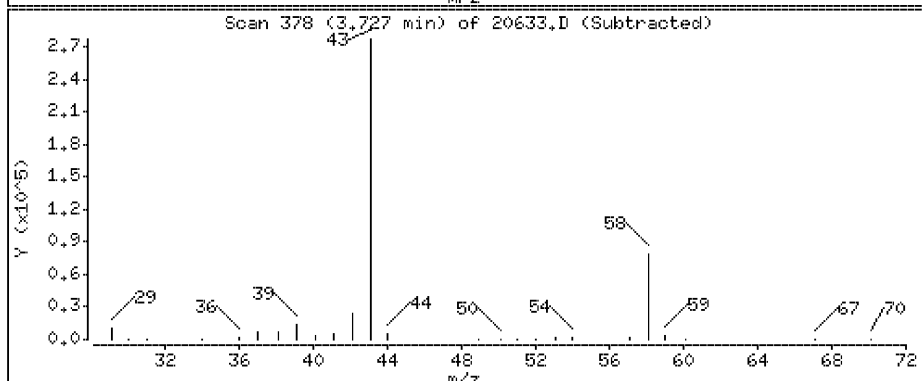
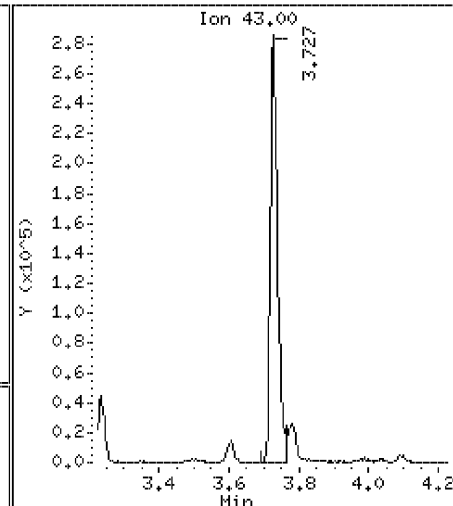
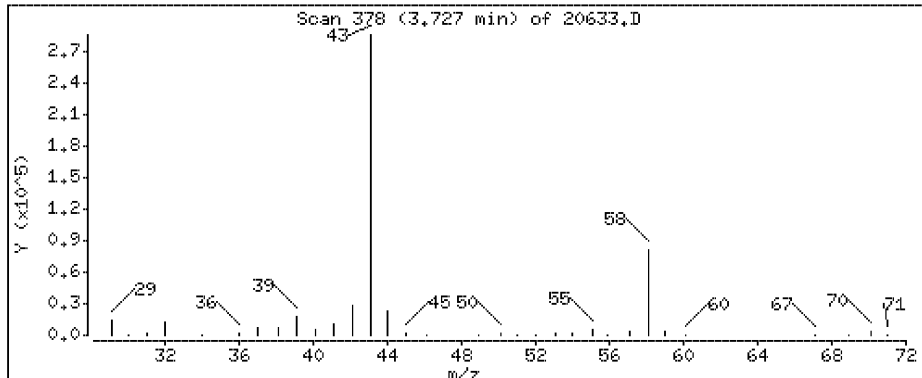
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

13 Acetone

Concentration: 12.3 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20633.D

Date : 26-JUL-2013 05:04

Client ID:

Instrument: 10airD.i

Sample Info:

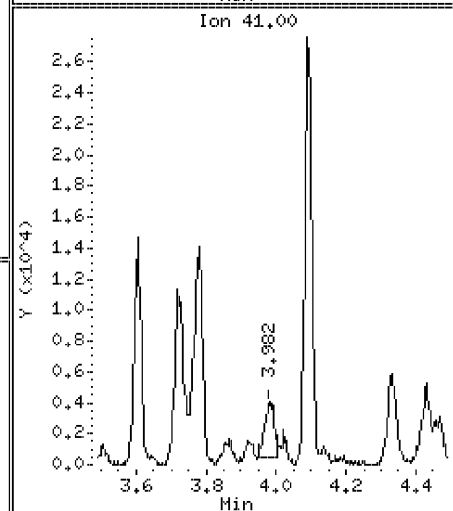
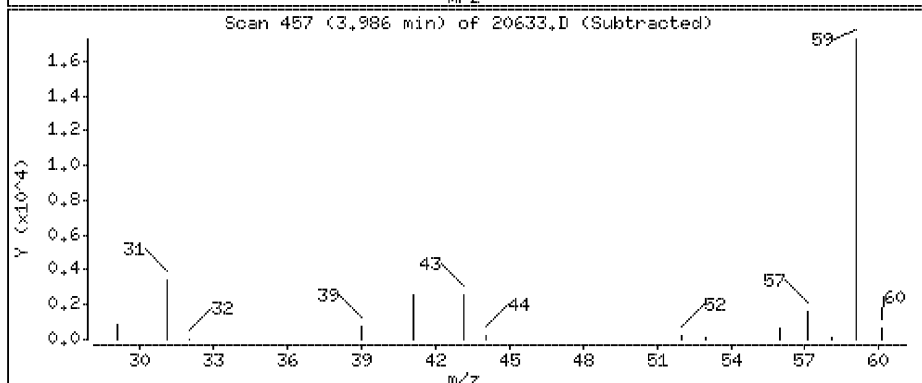
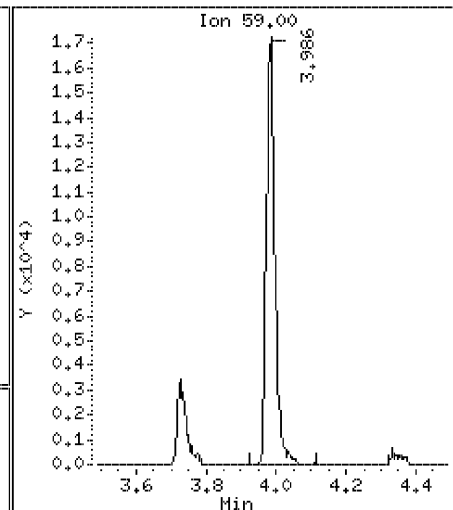
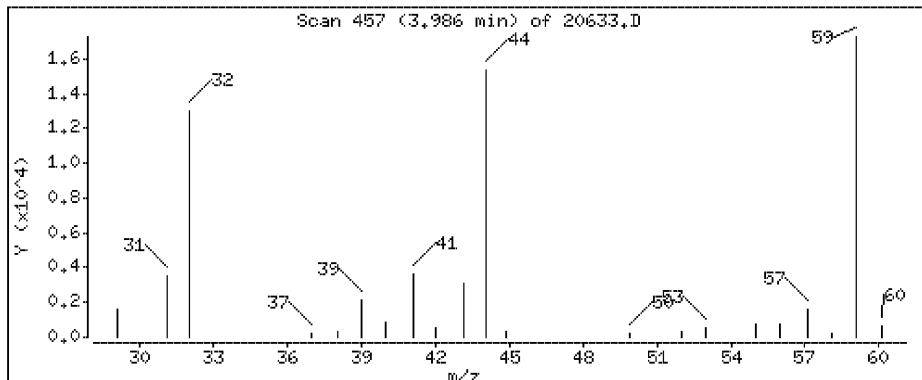
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

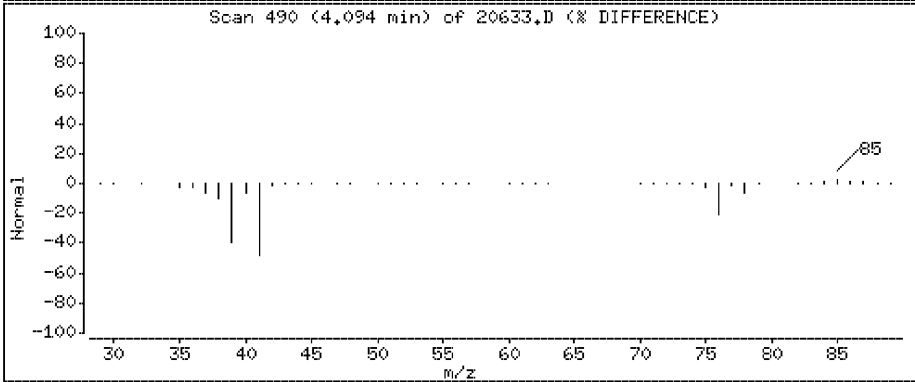
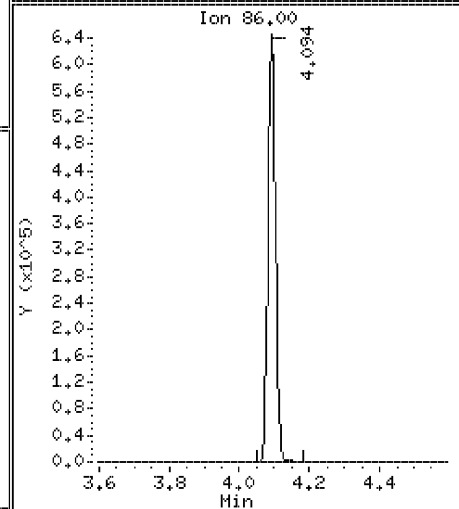
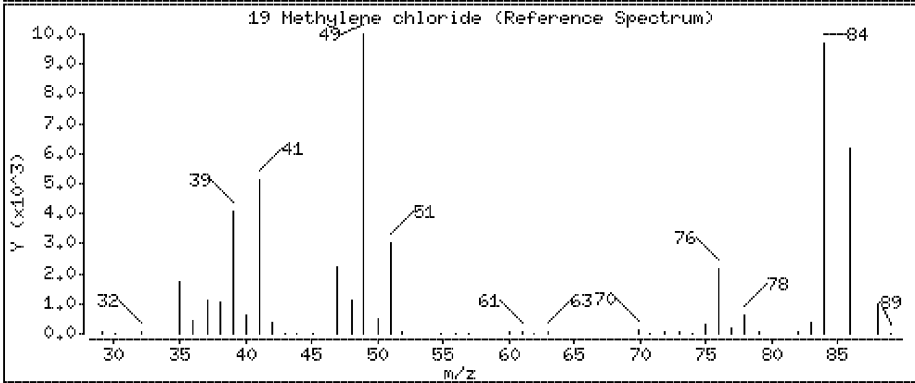
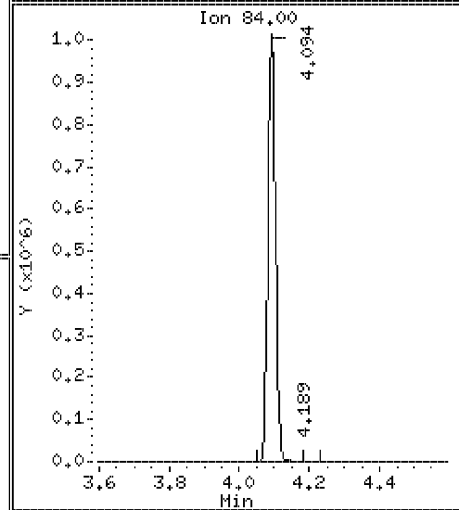
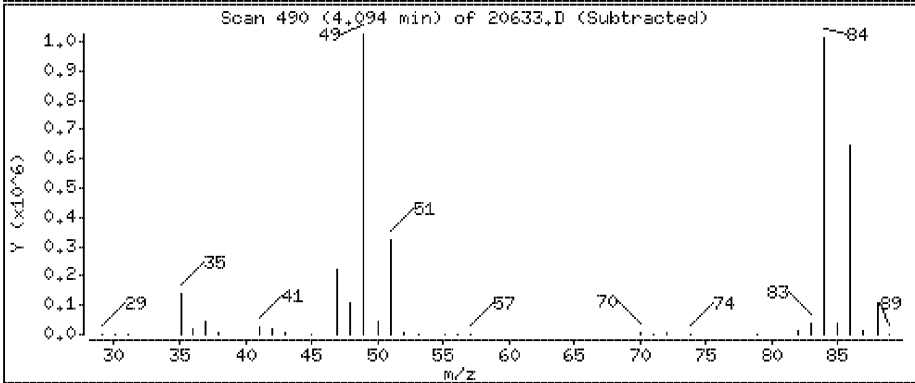
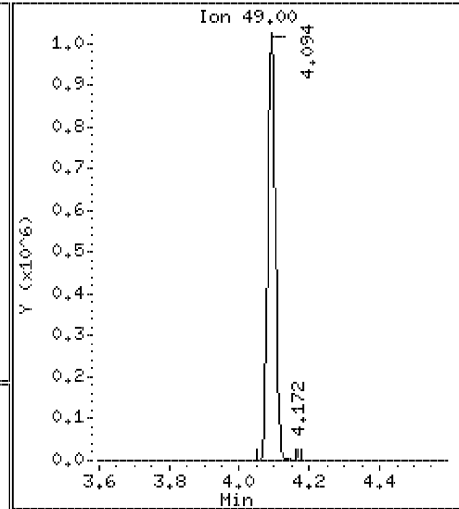
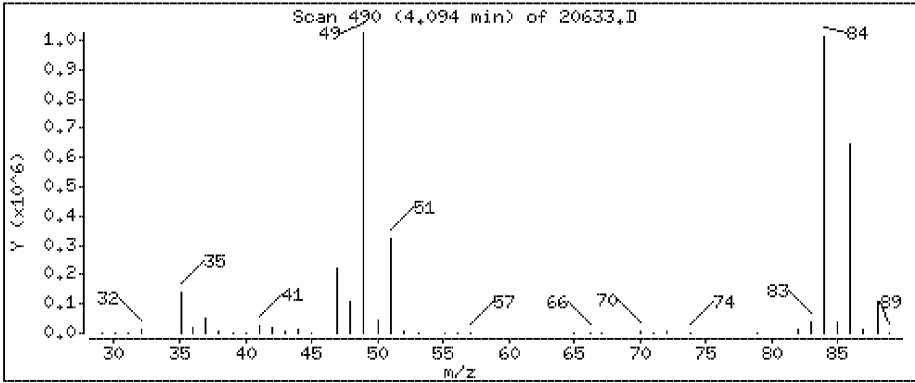
17 Tert Butyl Alcohol

Concentration: 0.827 ppbv



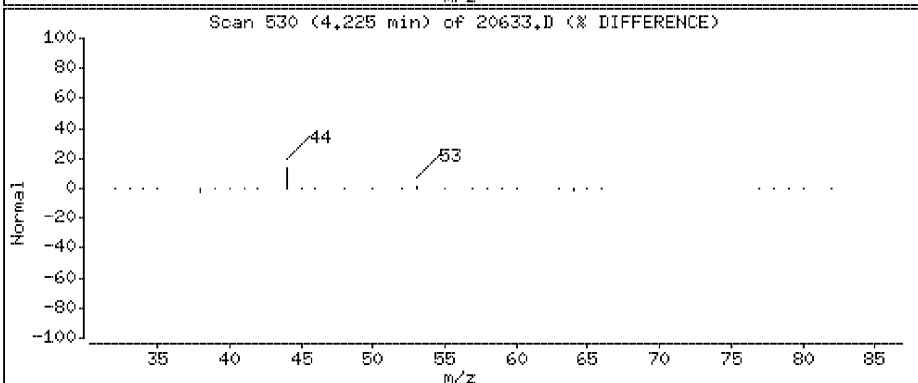
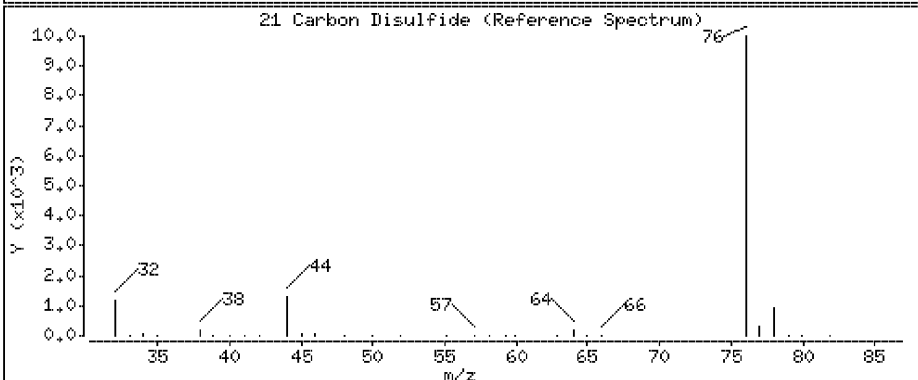
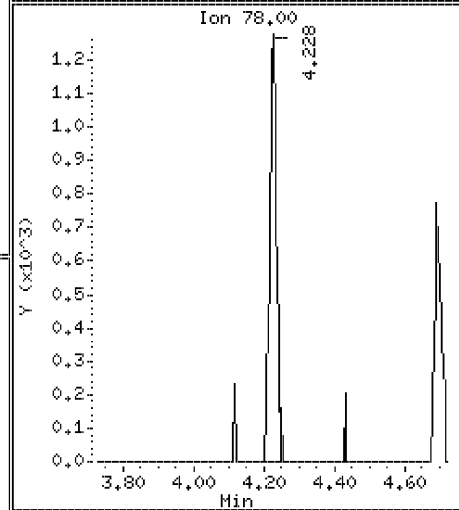
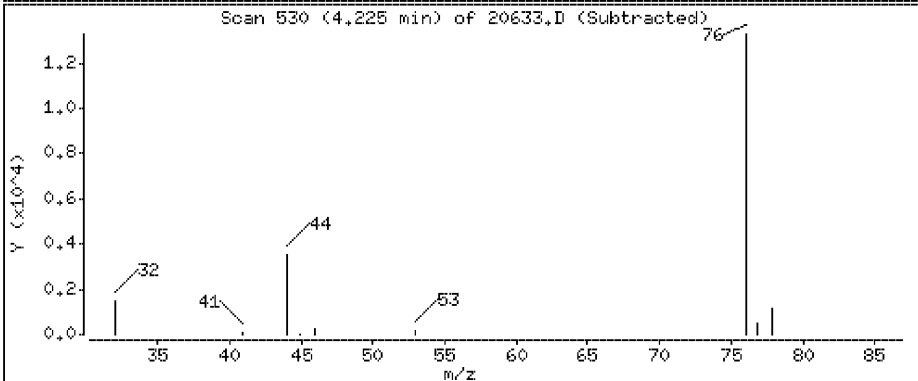
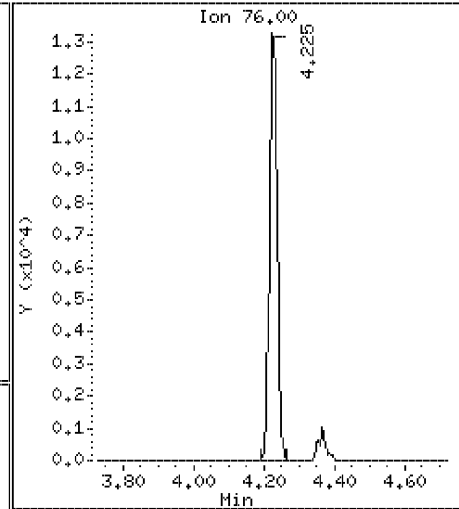
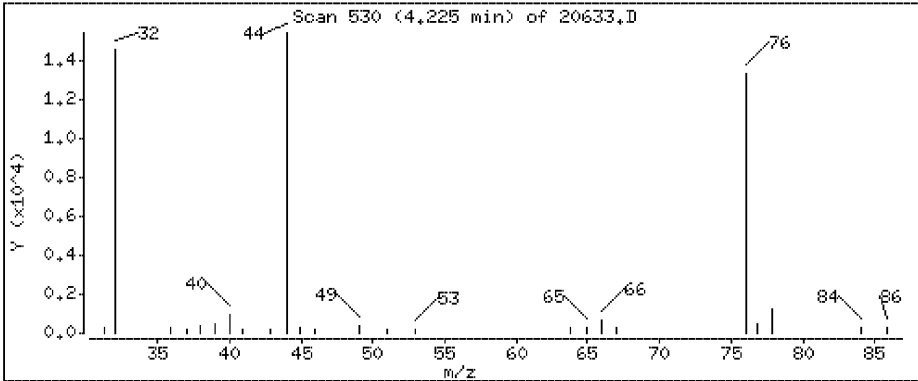
19 Methylene chloride

Concentration: 81.6 ppbv



21 Carbon Disulfide

Concentration: 0,365 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20633.D

Date : 26-JUL-2013 05:04

Client ID:

Instrument: 10airD.i

Sample Info:

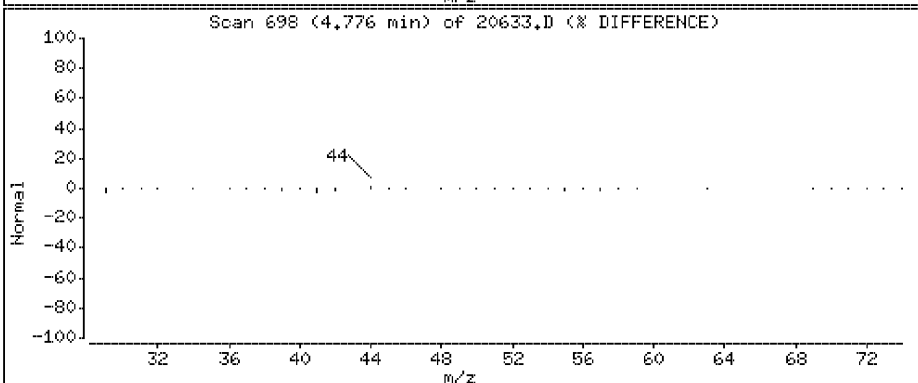
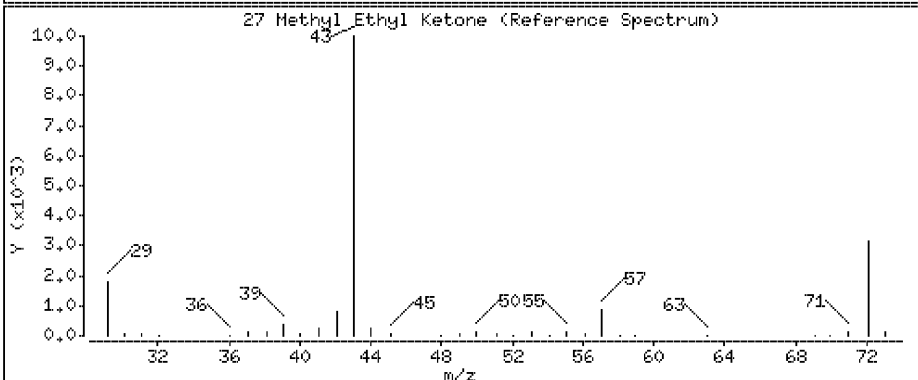
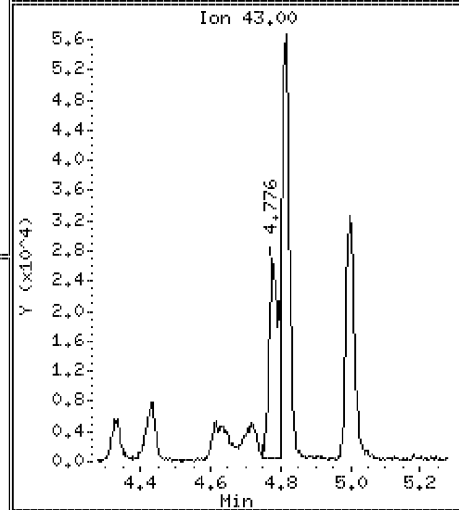
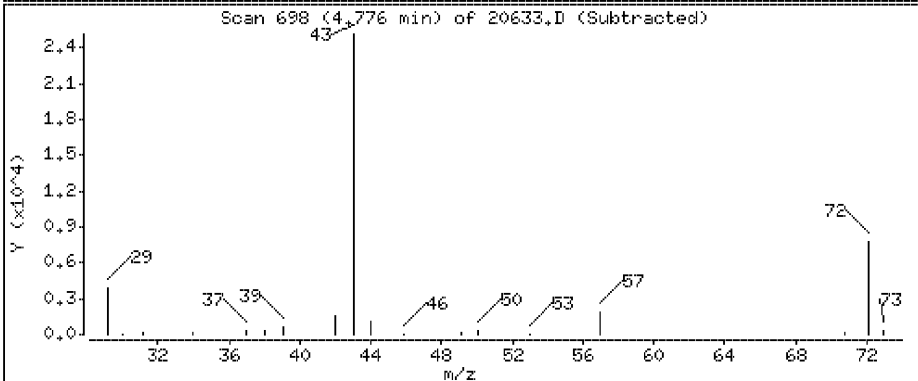
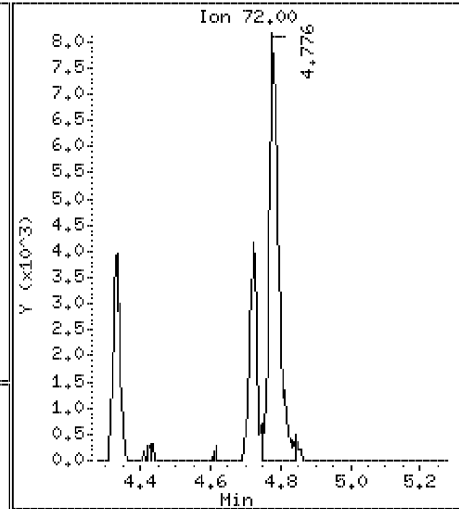
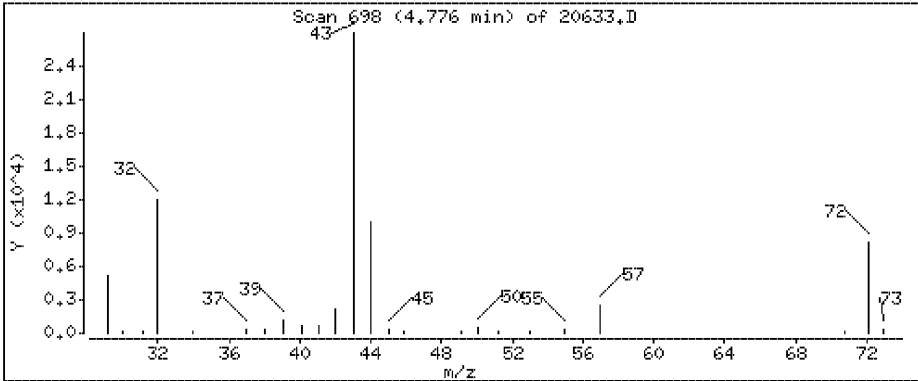
Operator: DR1

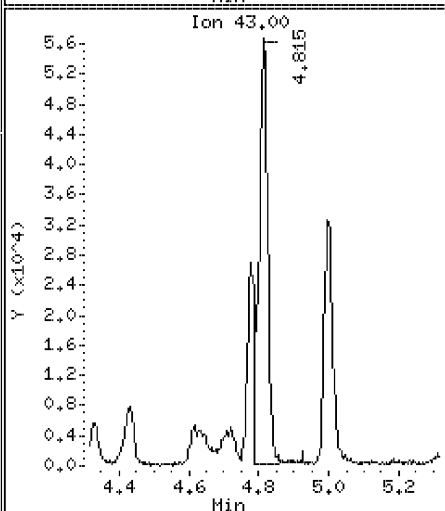
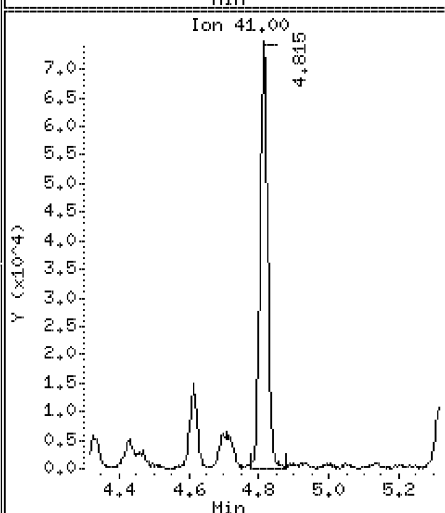
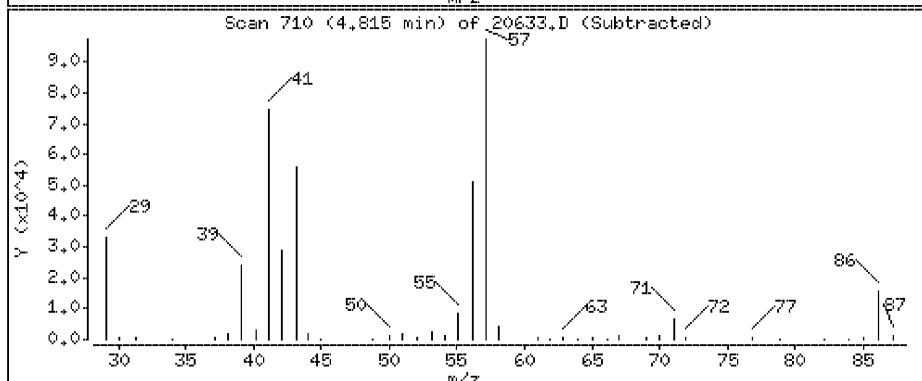
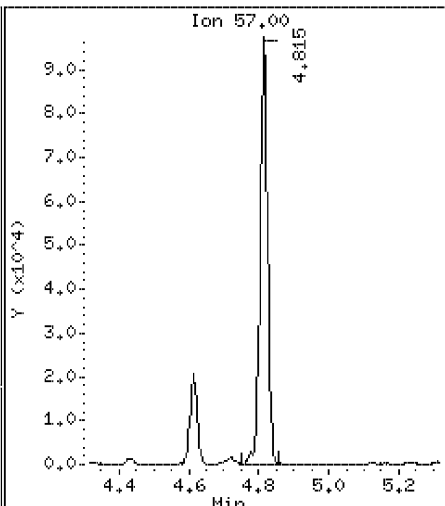
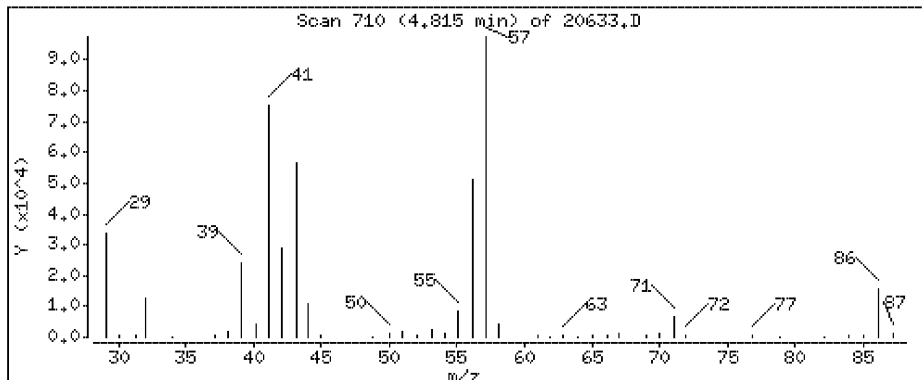
Column phase: J&W DB-5

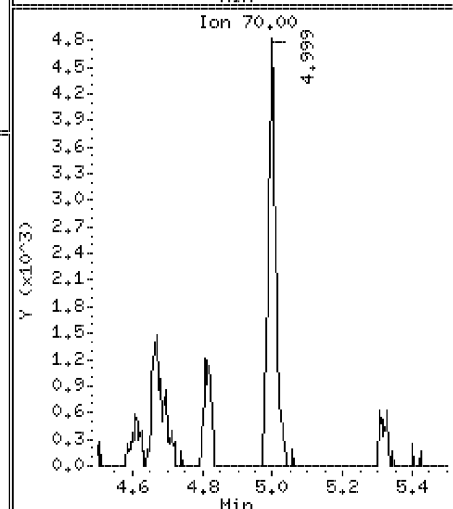
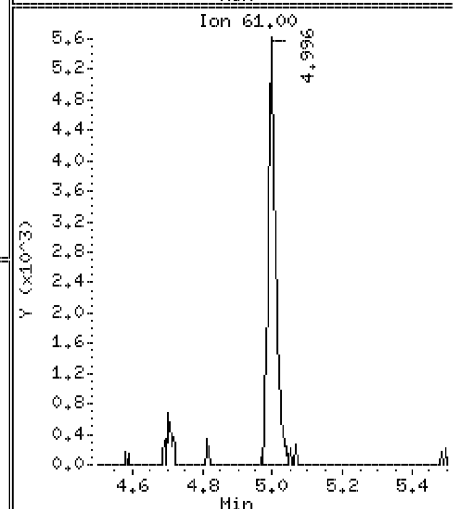
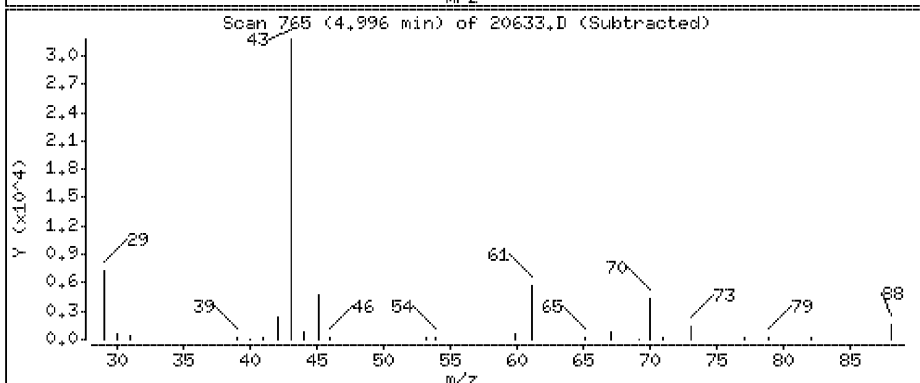
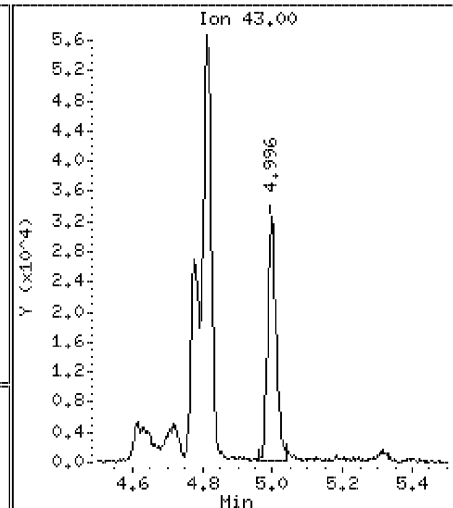
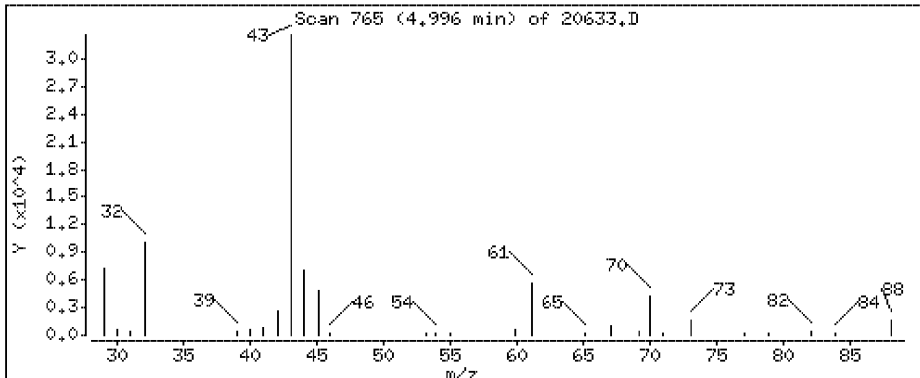
Column diameter: 0.32

27 Methyl Ethyl Ketone

Concentration: 1.95 ppbv

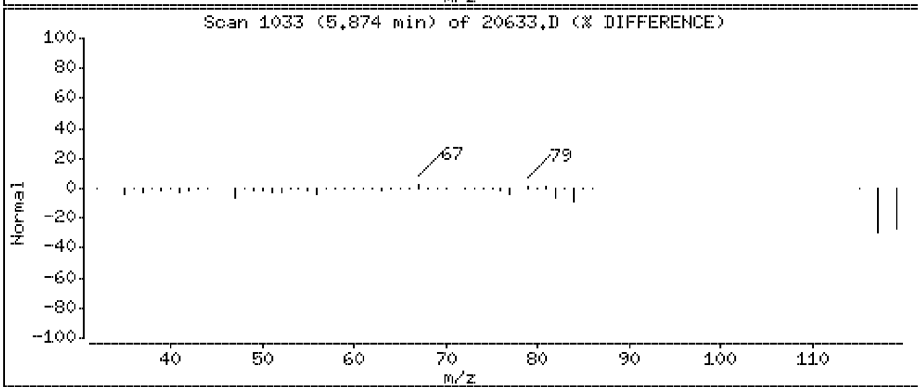
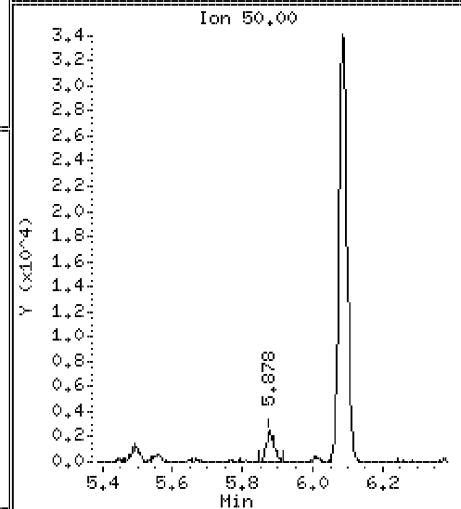
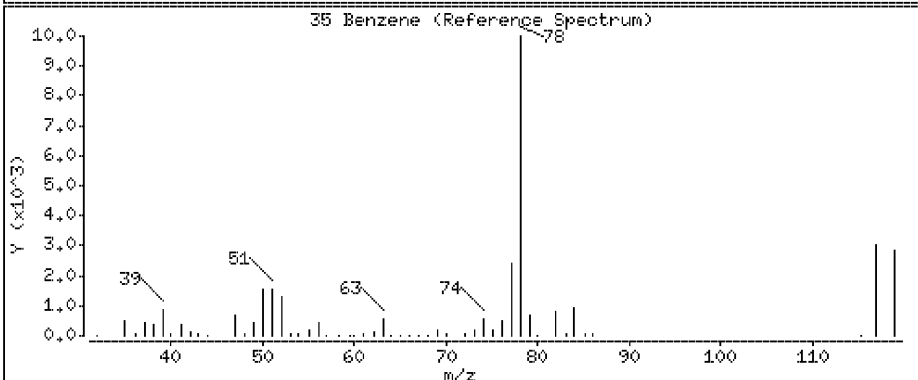
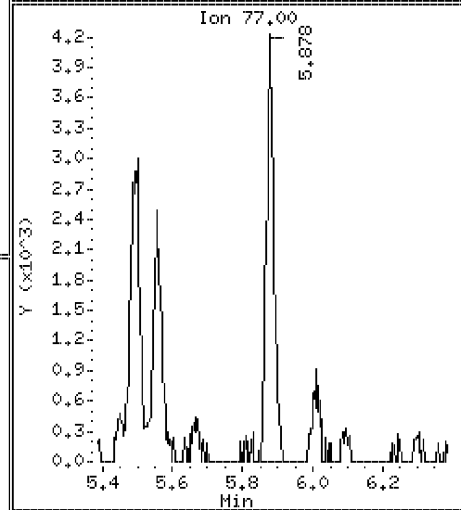
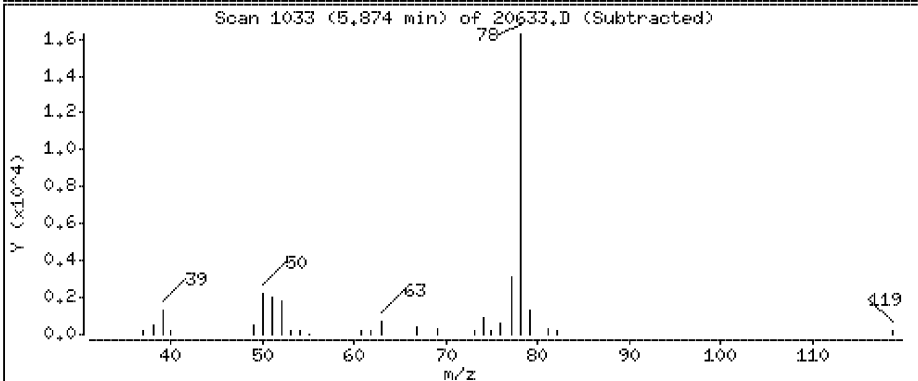
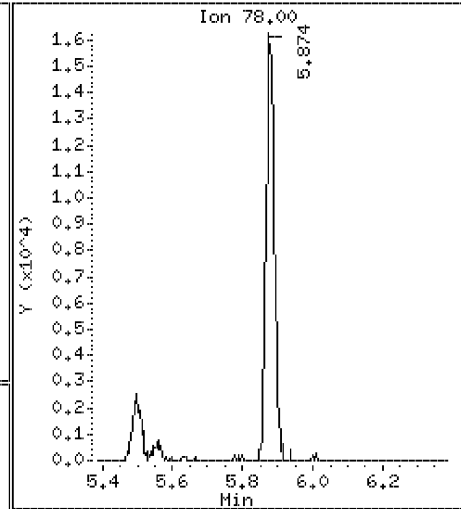
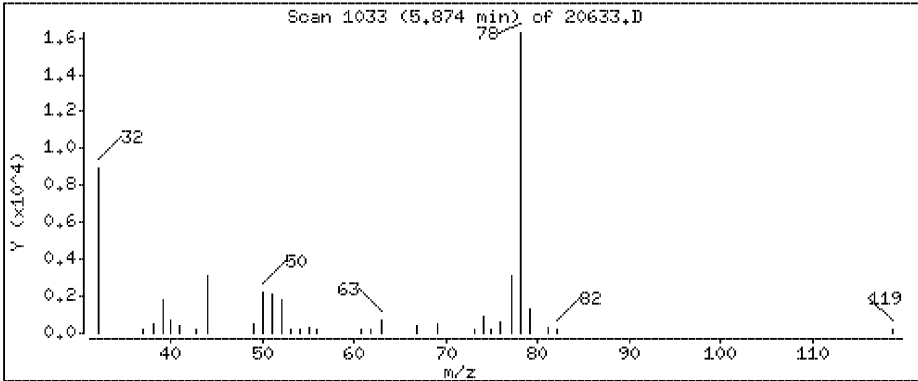






35 Benzene

Concentration: 1.13 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20633.D

Date : 26-JUL-2013 05:04

Client ID:

Instrument: 10airD.i

Sample Info:

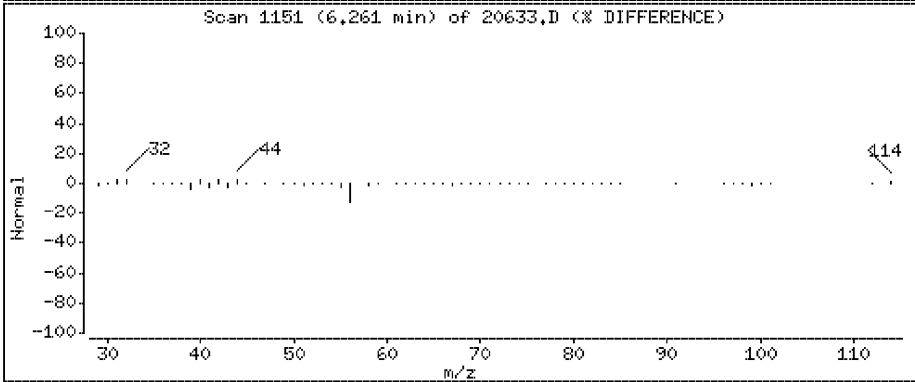
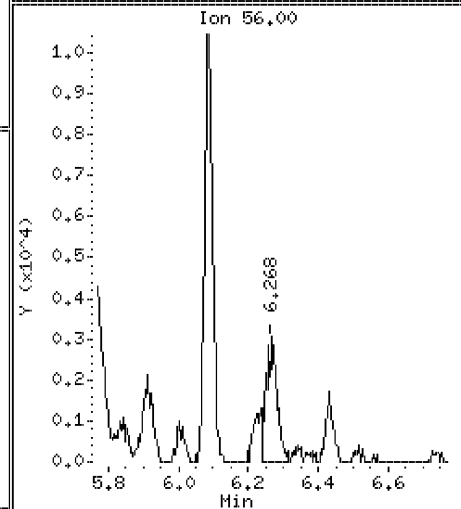
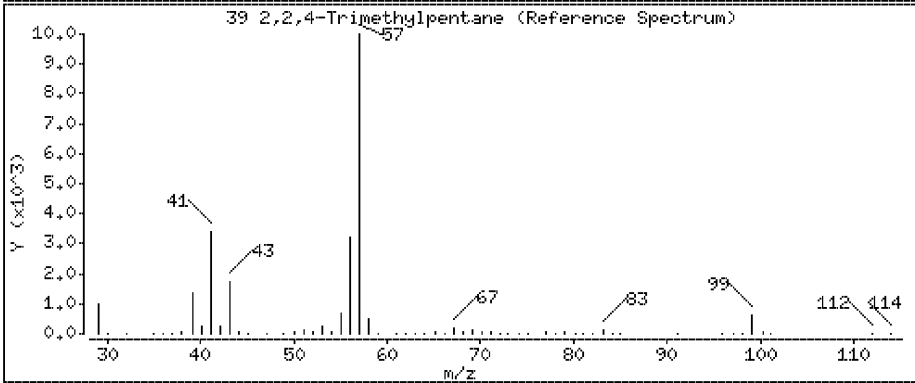
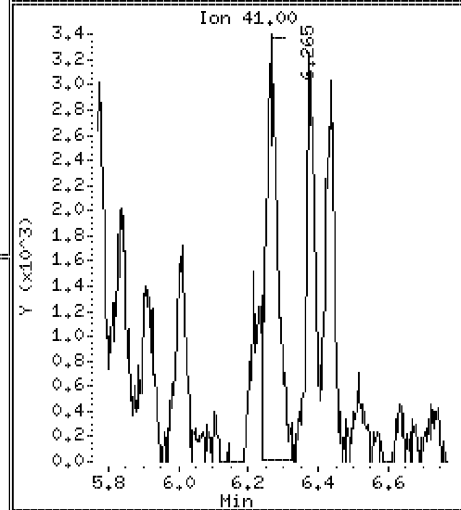
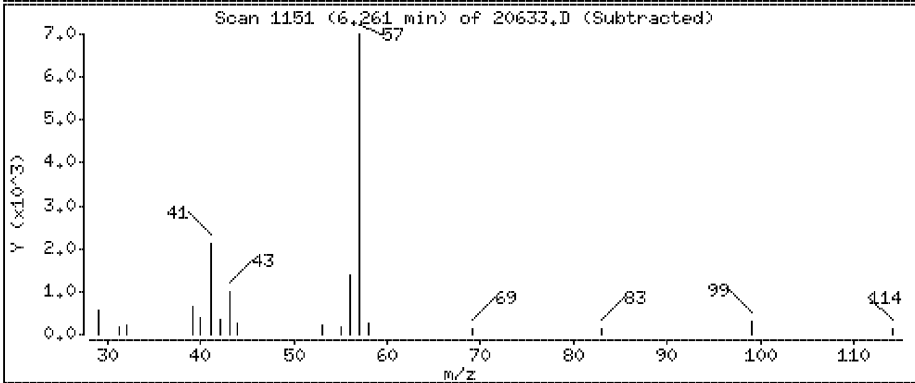
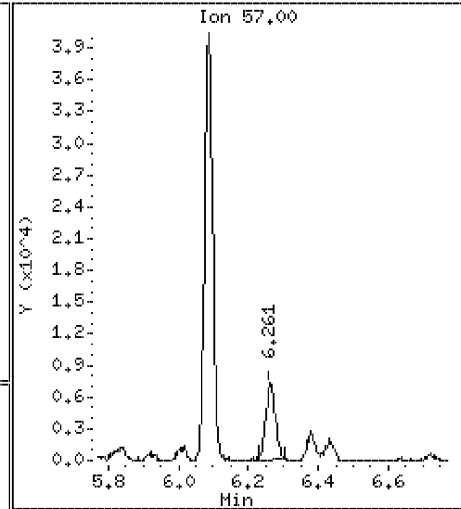
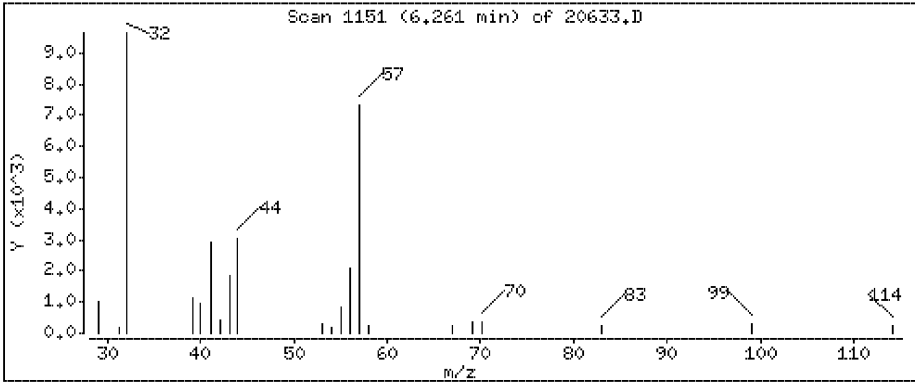
Operator: DR1

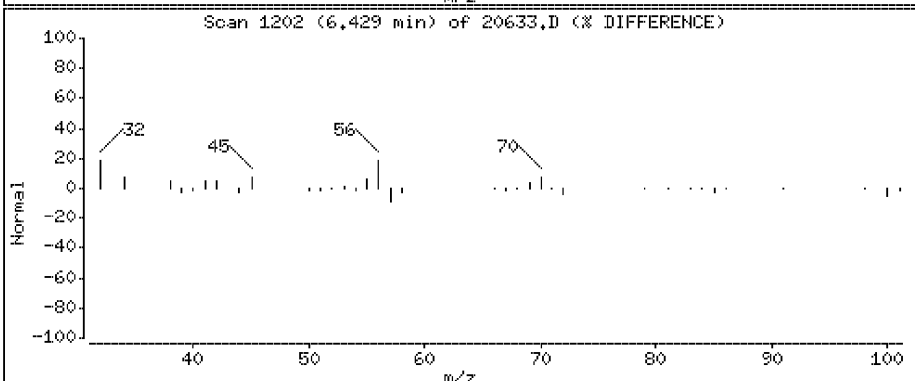
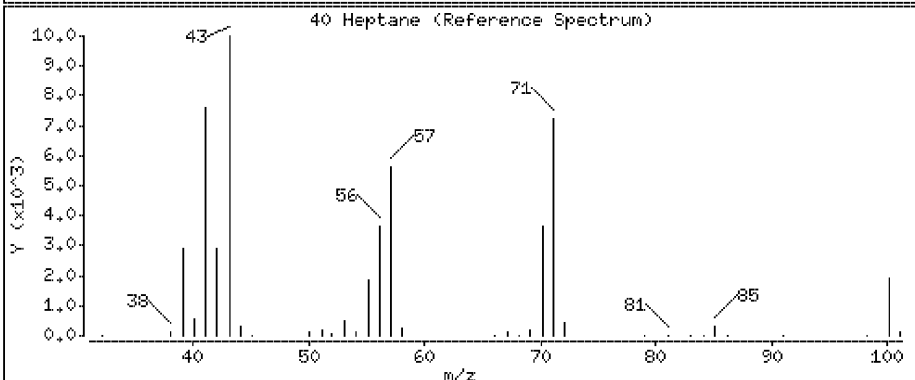
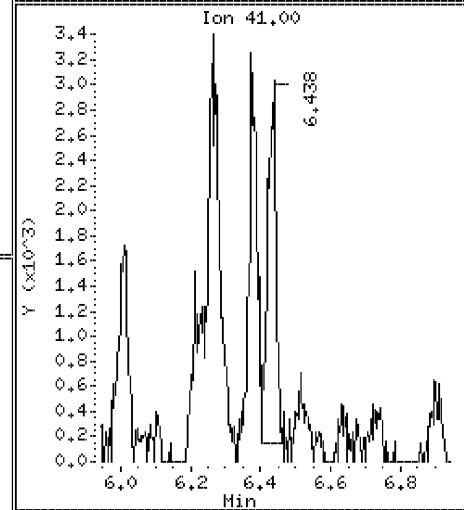
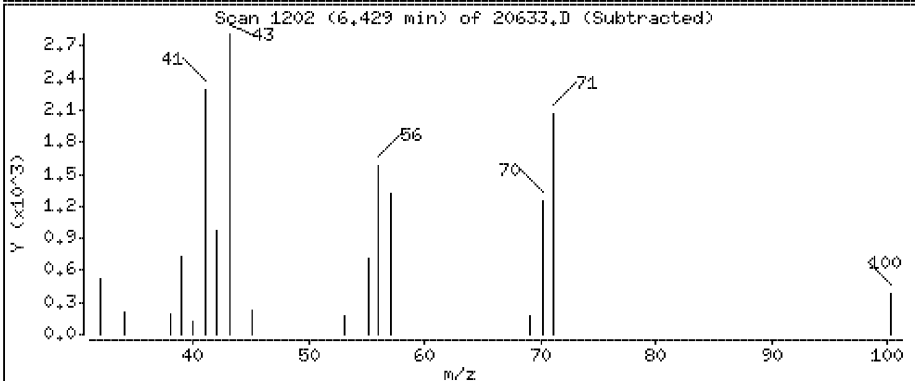
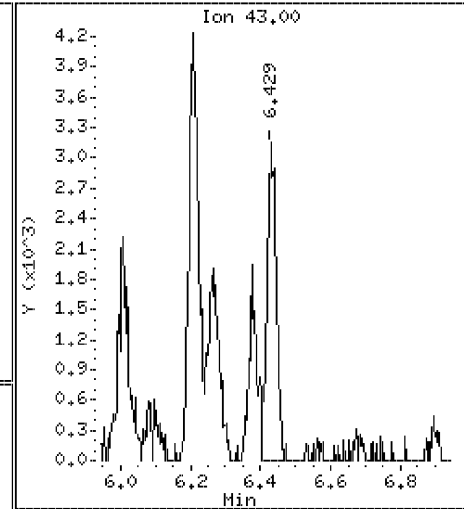
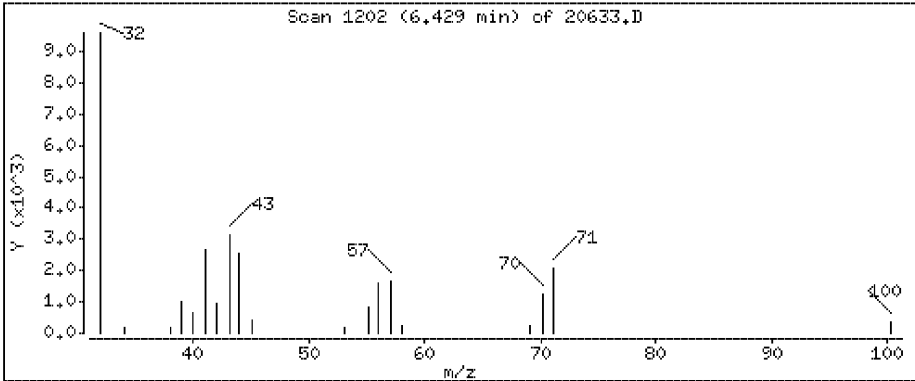
Column phase: J&W DB-5

Column diameter: 0.32

39 2,2,4-Trimethylpentane

Concentration: 0.821 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20633.D

Date : 26-JUL-2013 05:04

Client ID:

Instrument: 10airD.i

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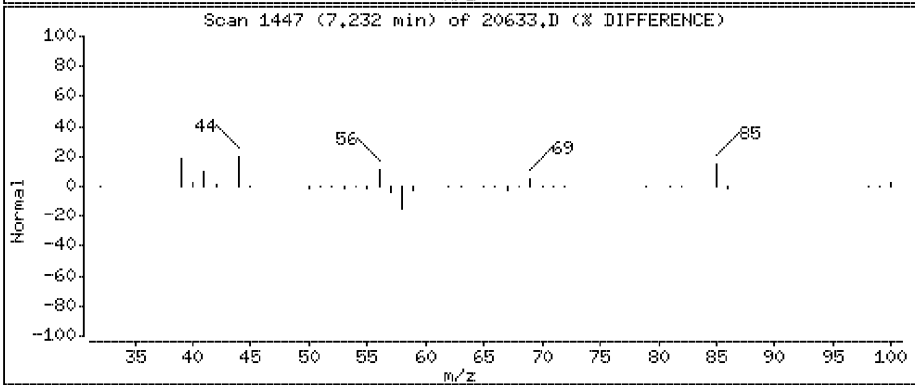
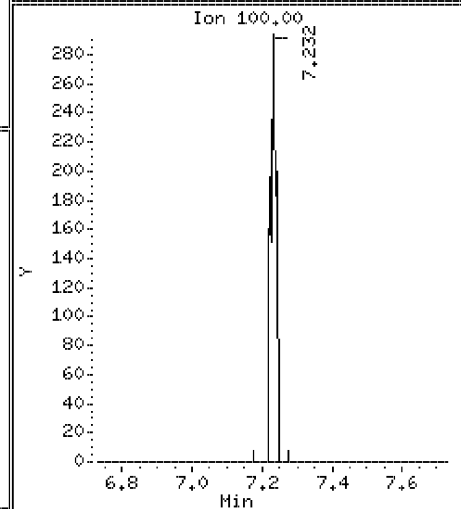
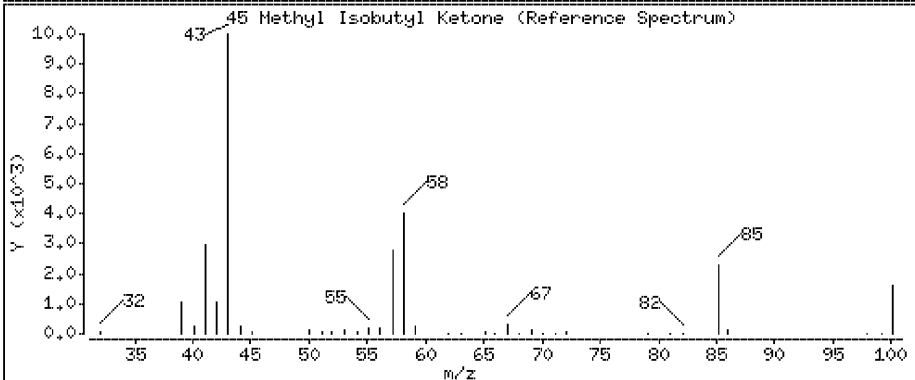
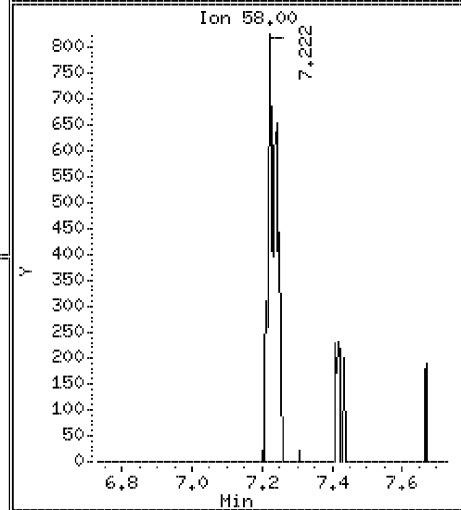
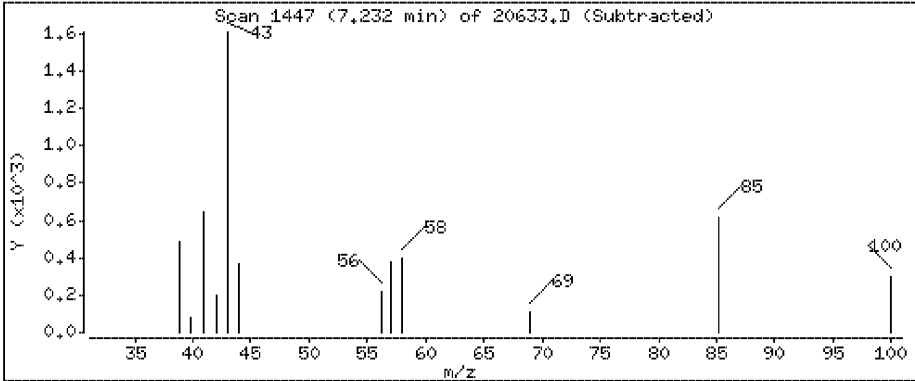
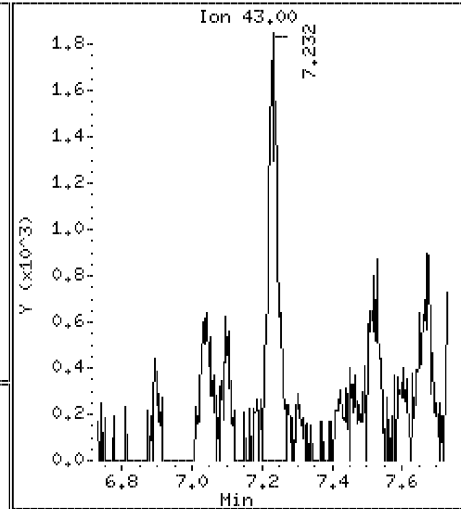
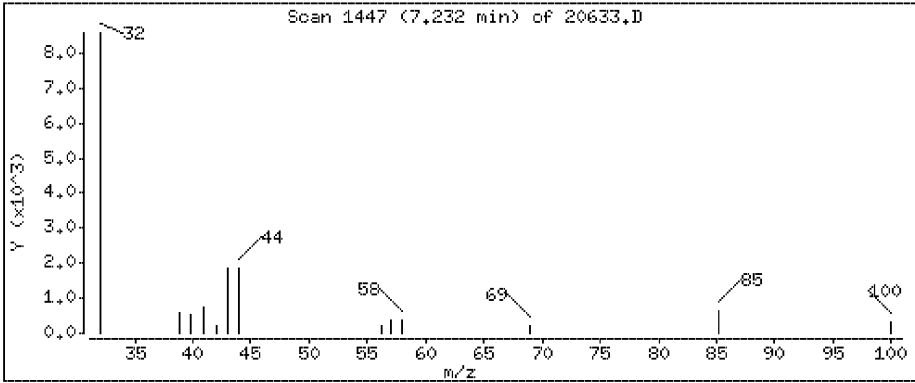
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

45 Methyl Isobutyl Ketone

Concentration: 0.703 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20633.D

Date : 26-JUL-2013 05:04

Client ID:

Instrument: 10airD.i

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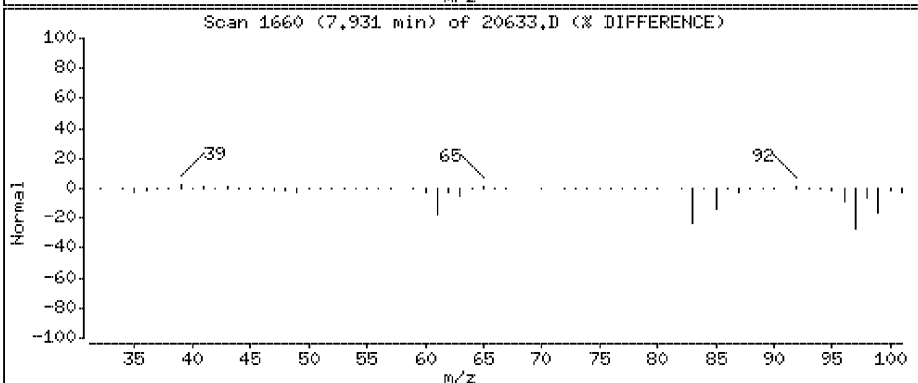
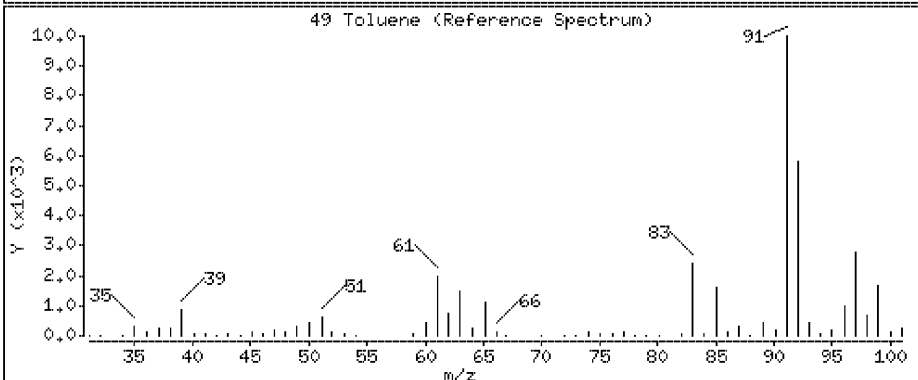
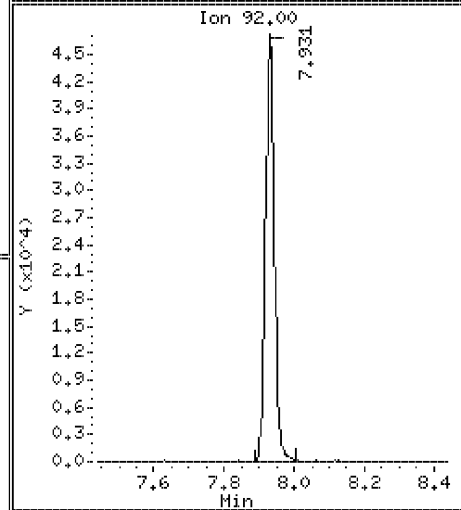
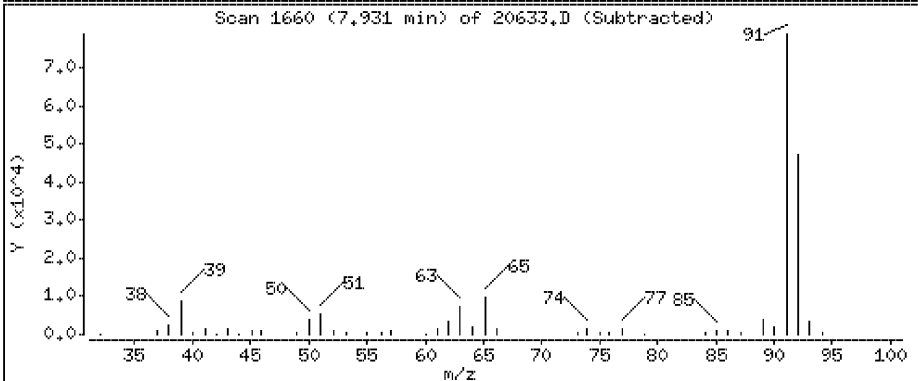
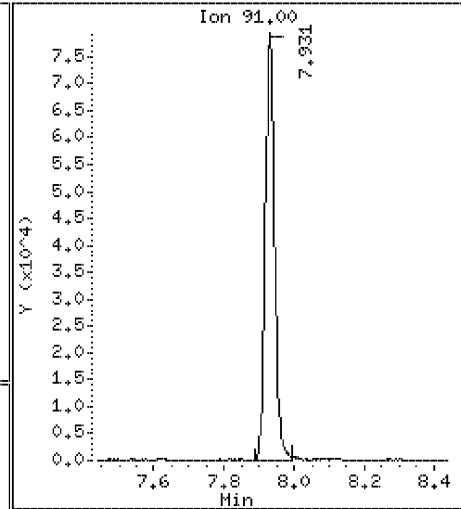
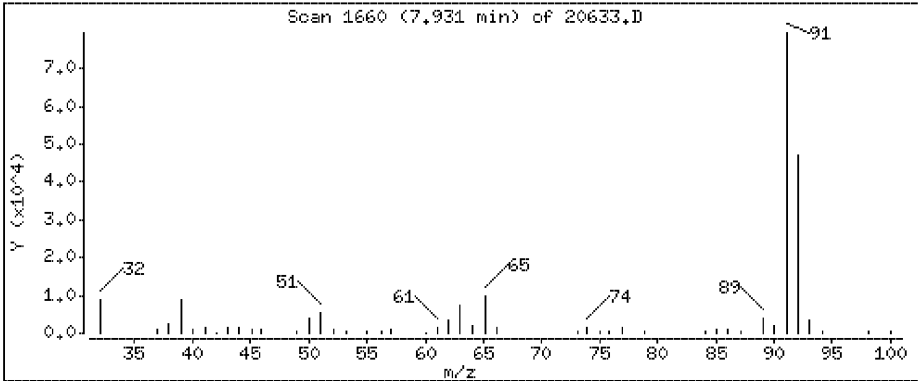
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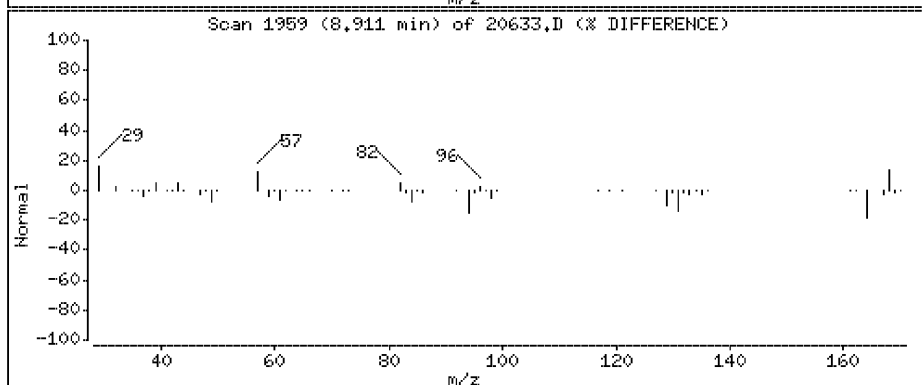
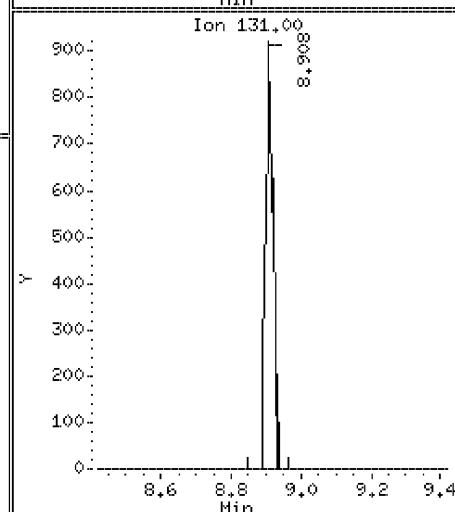
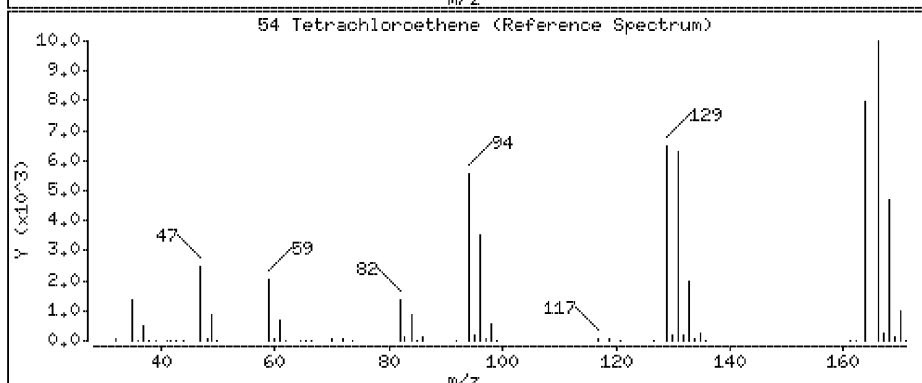
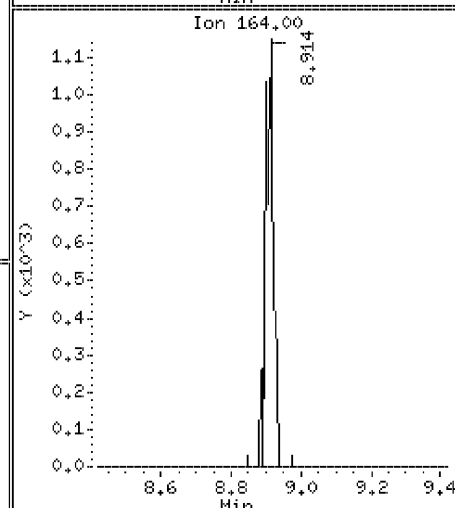
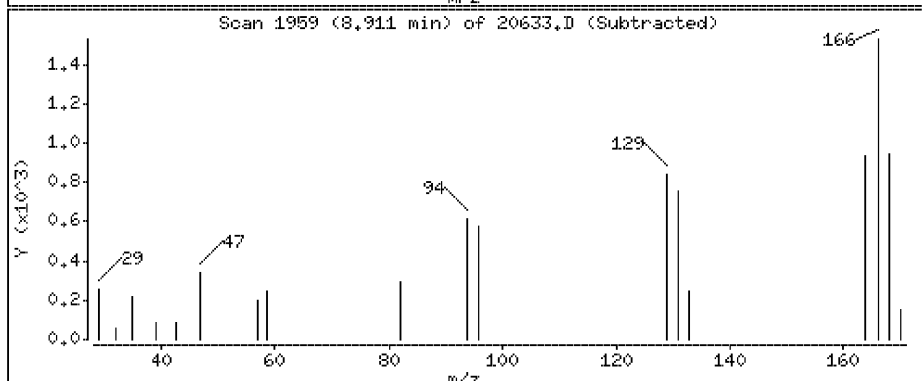
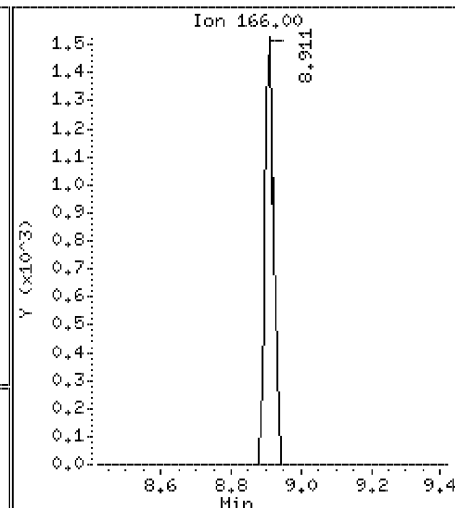
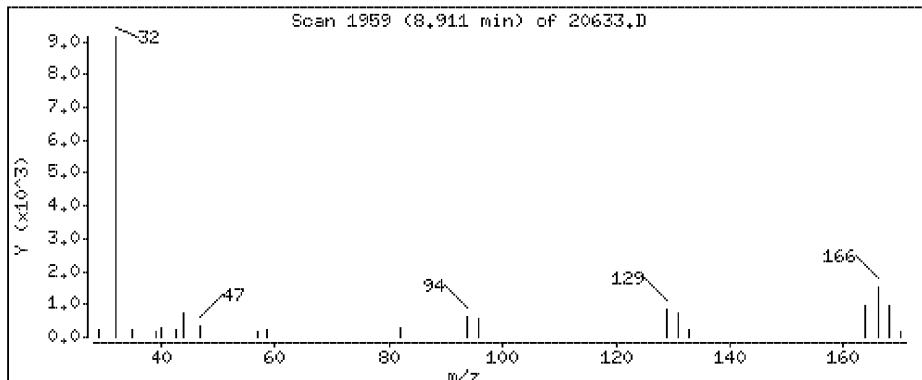
Column phase: J&W DB-5

Column diameter: 0.32

49 Toluene

Concentration: 2.95 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20633.D

Date : 26-JUL-2013 05:04

Client ID:

Instrument: 10airD.i

Sample Info:

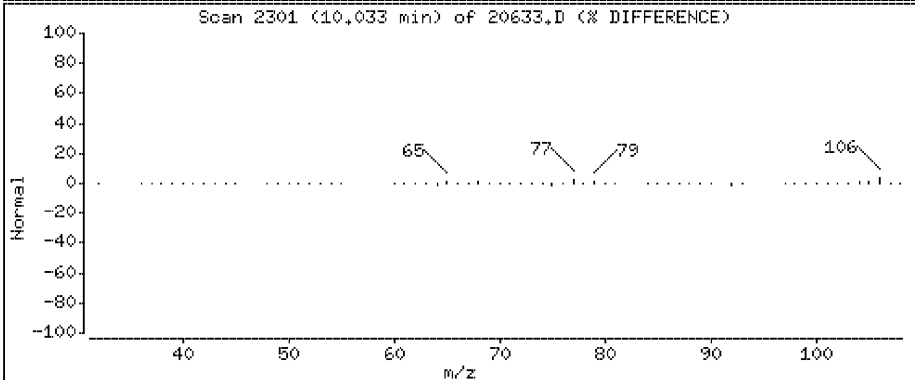
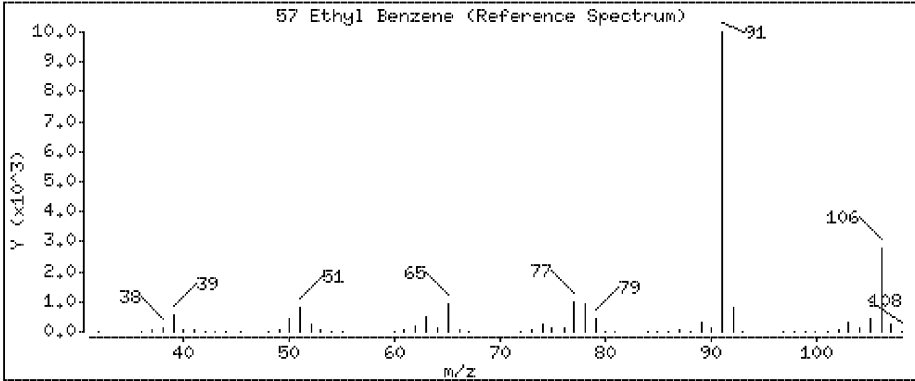
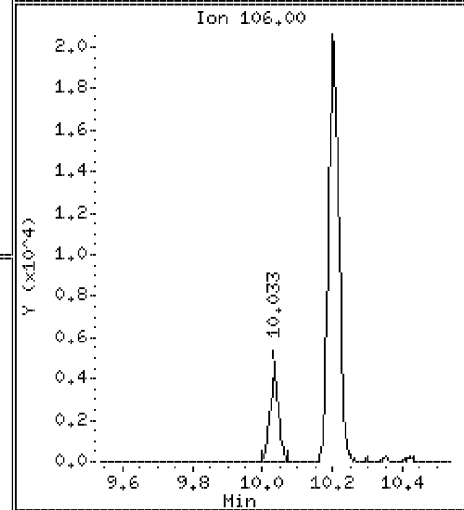
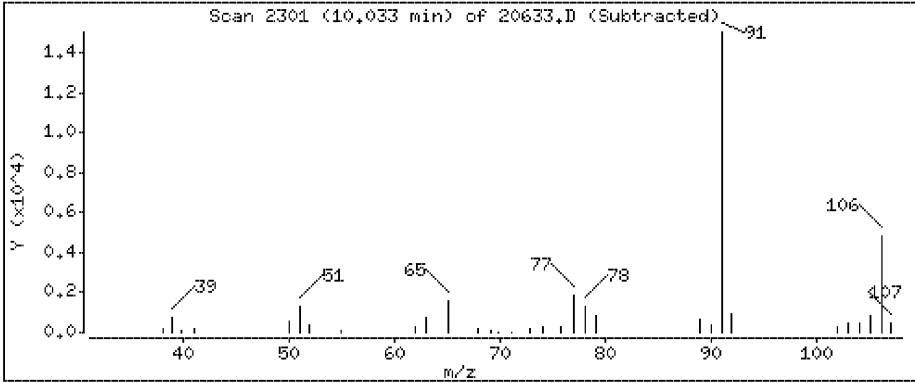
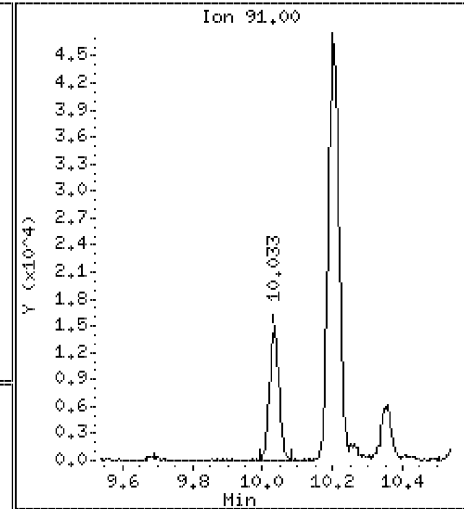
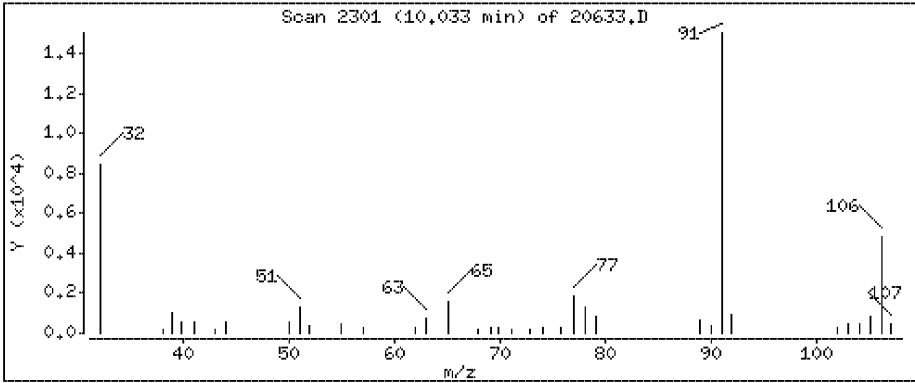
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

57 Ethyl Benzene

Concentration: 0.830 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20633.D

Date : 26-JUL-2013 05:04

Client ID:

Instrument: 10airD.i

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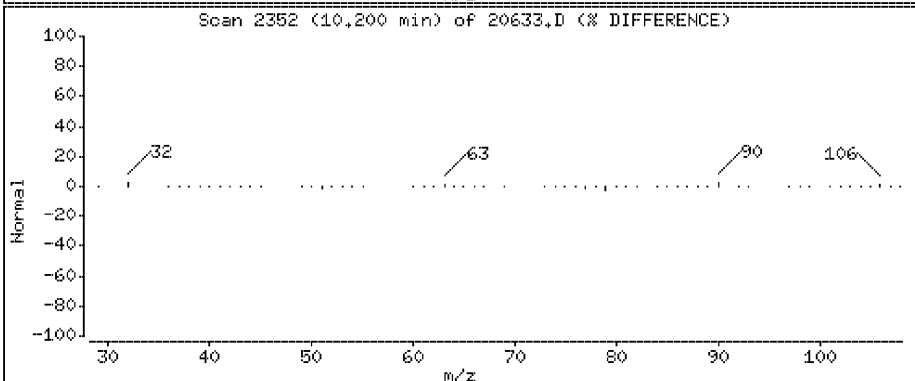
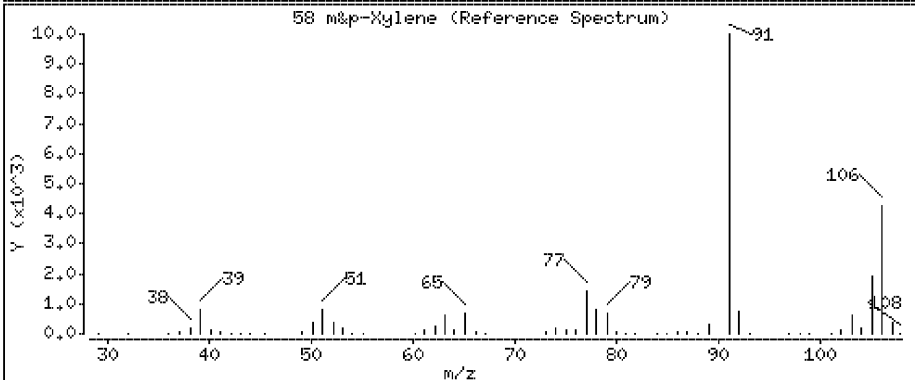
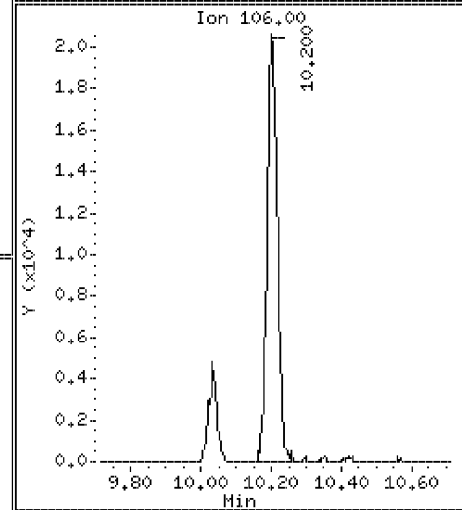
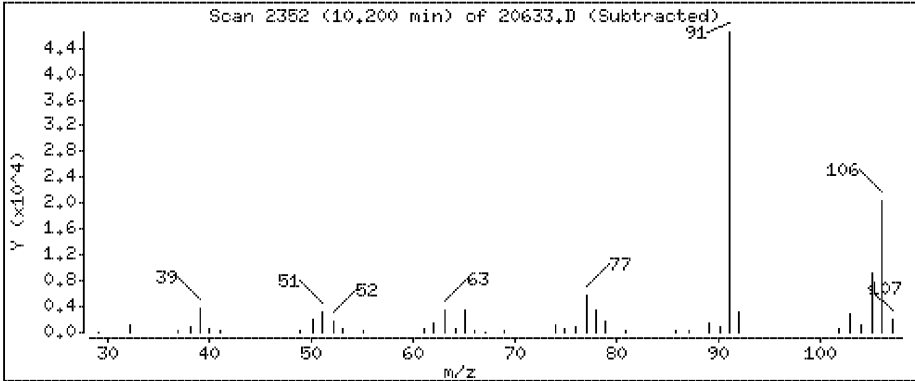
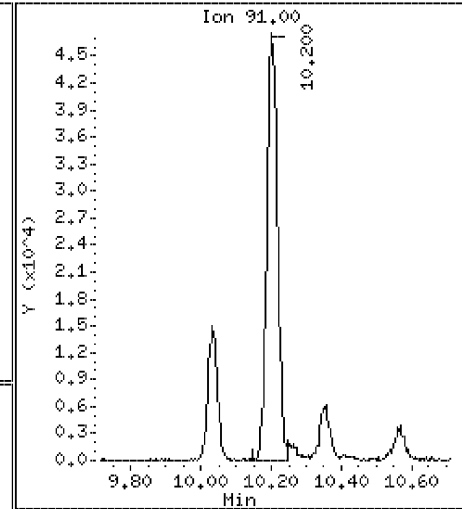
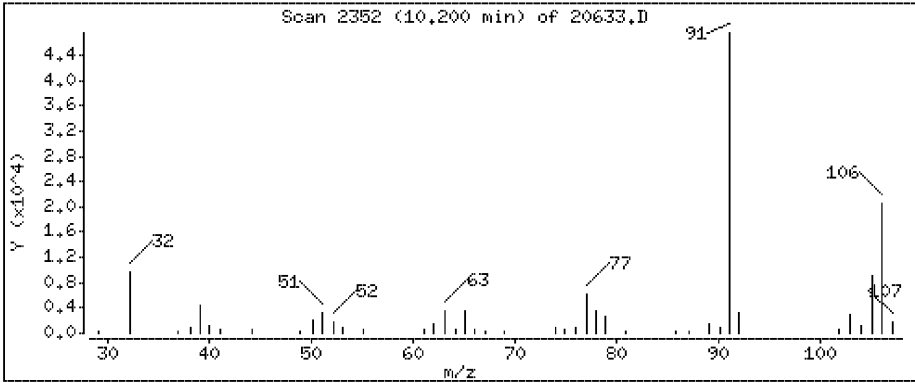
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

58 m&p-Xylene

Concentration: 2.08 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20633.D

Date : 26-JUL-2013 05:04

Client ID:

Instrument: 10airD.i

Sample Info:

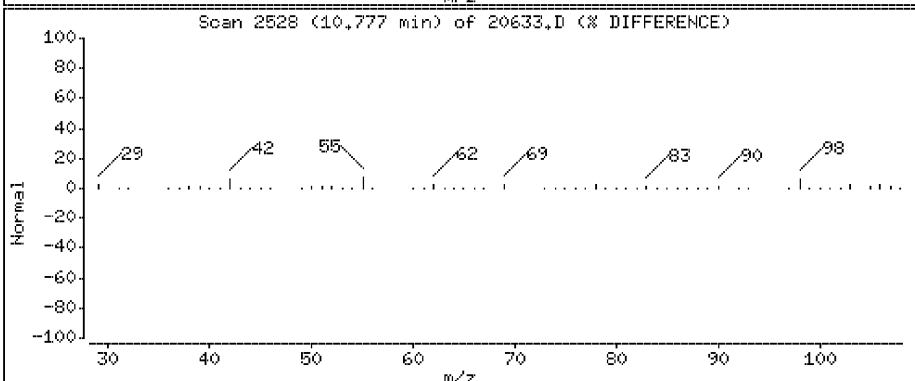
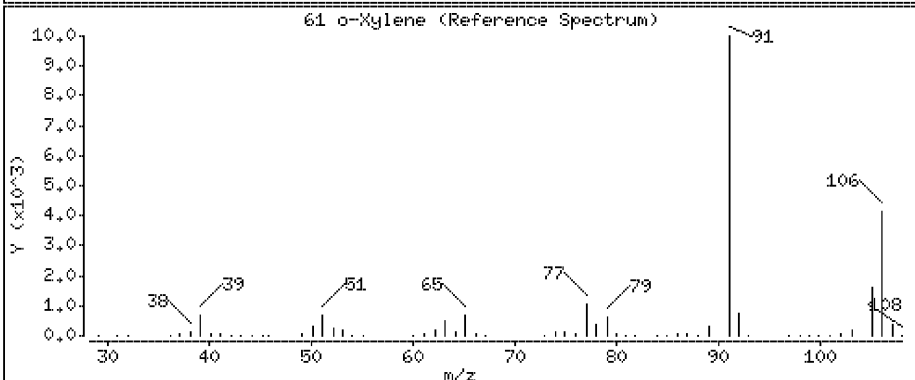
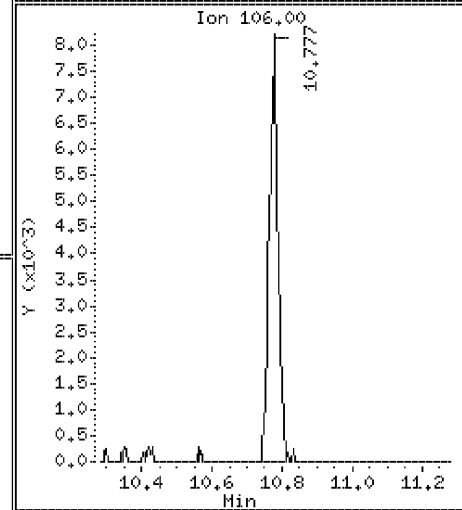
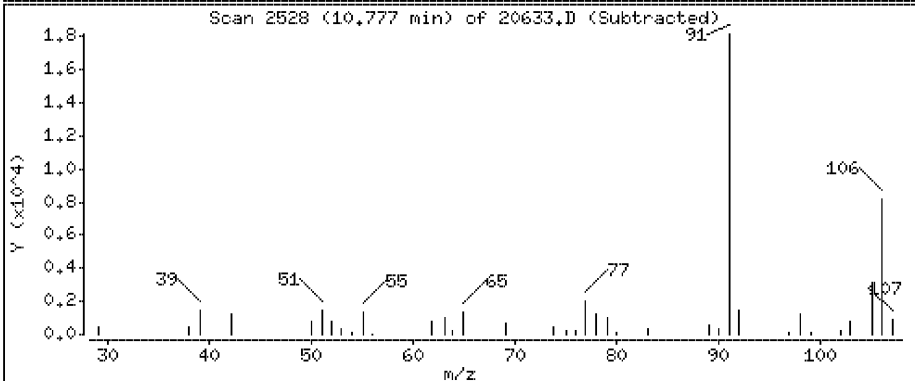
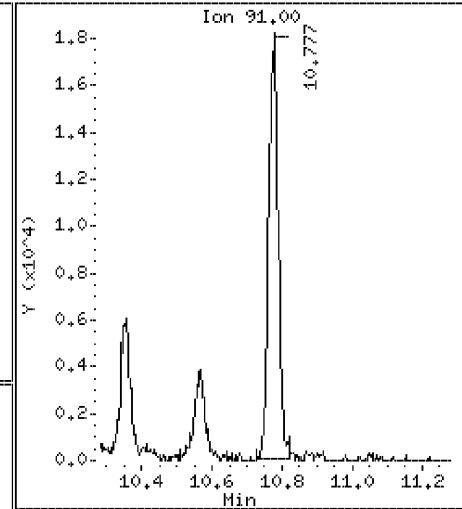
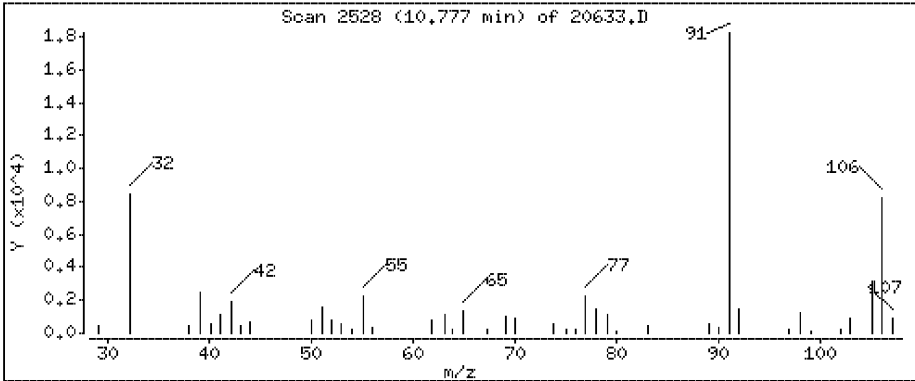
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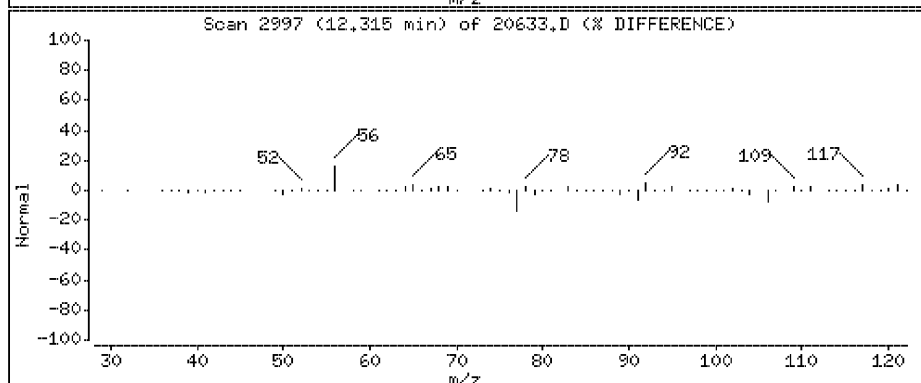
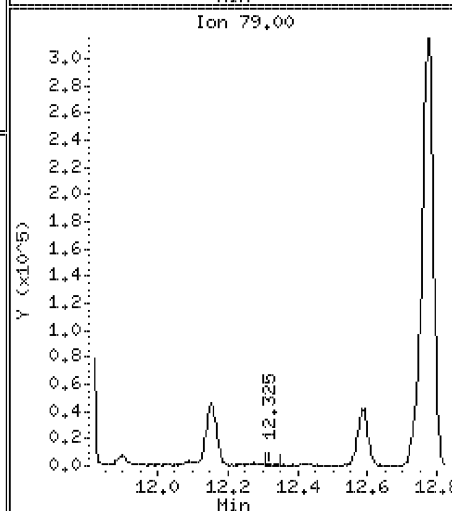
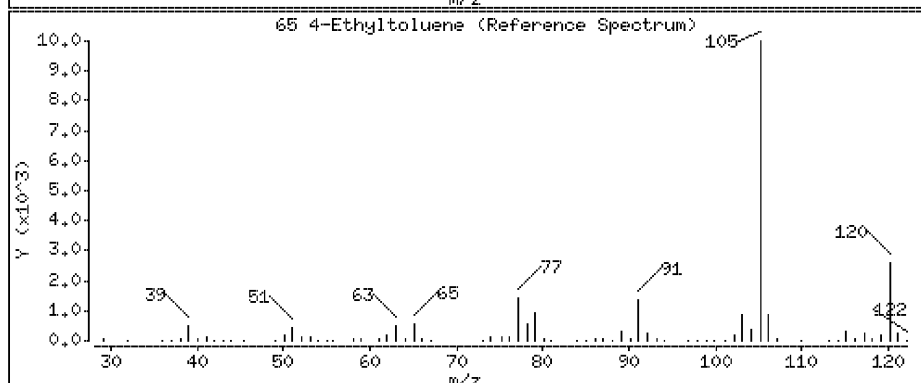
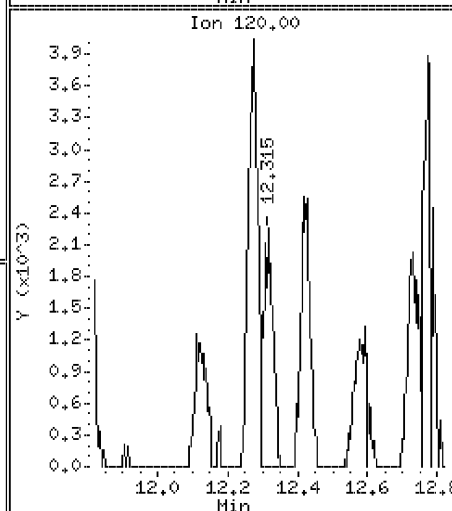
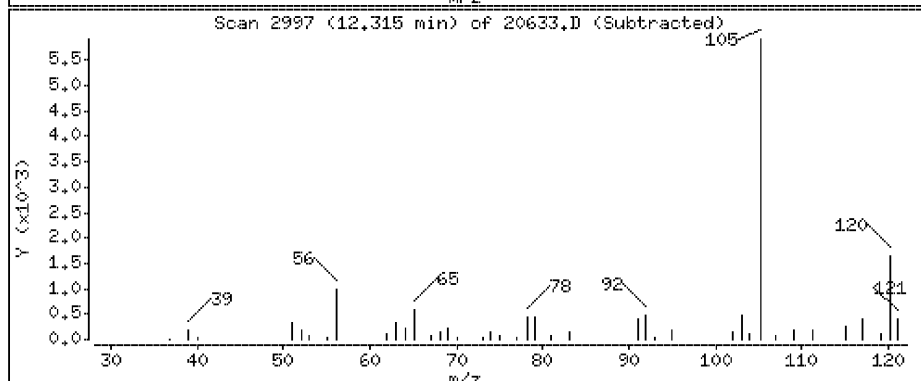
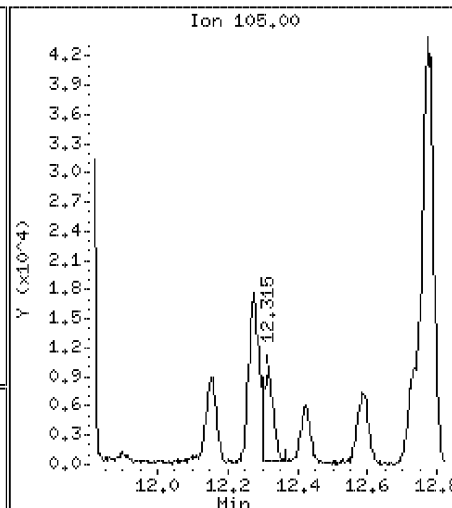
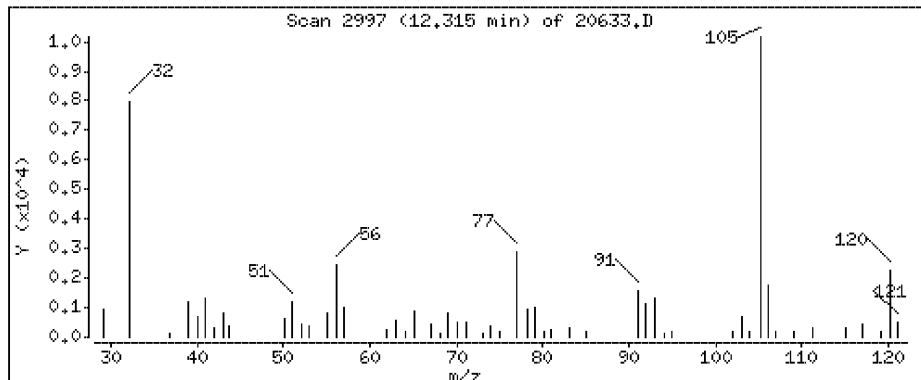
Column phase: J&W DB-5

Column diameter: 0,32

61 o-Xylene

Concentration: 0,835 ppbv





Data File: \\192.168.10.12\chem\10airD,i\072513,b\20633.D

Date : 26-JUL-2013 05:04

Client ID:

Instrument: 10airD.i

Sample Info:

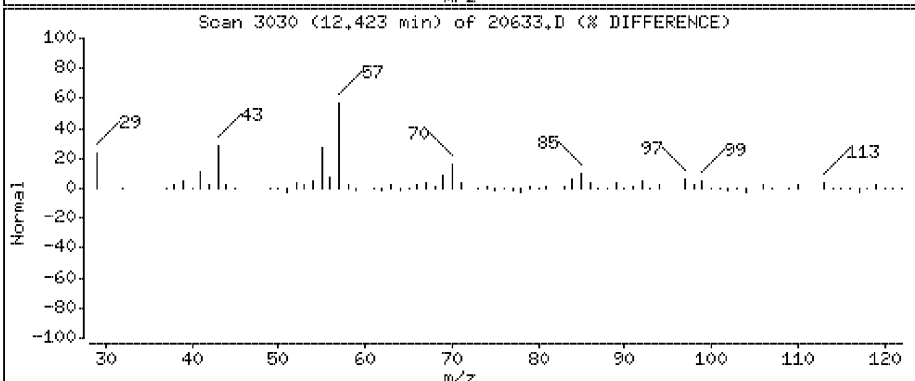
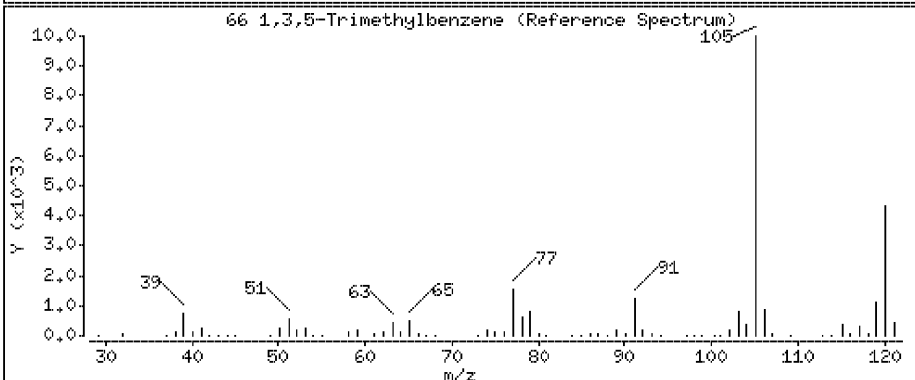
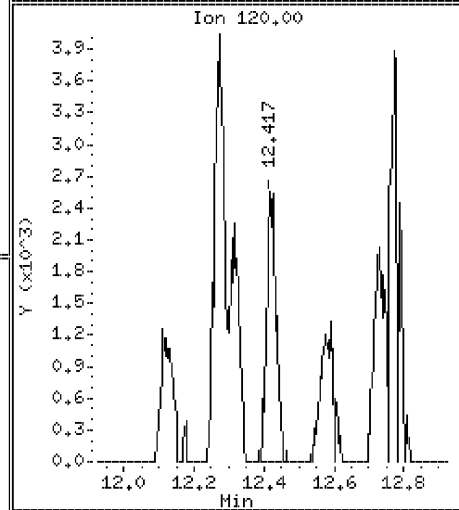
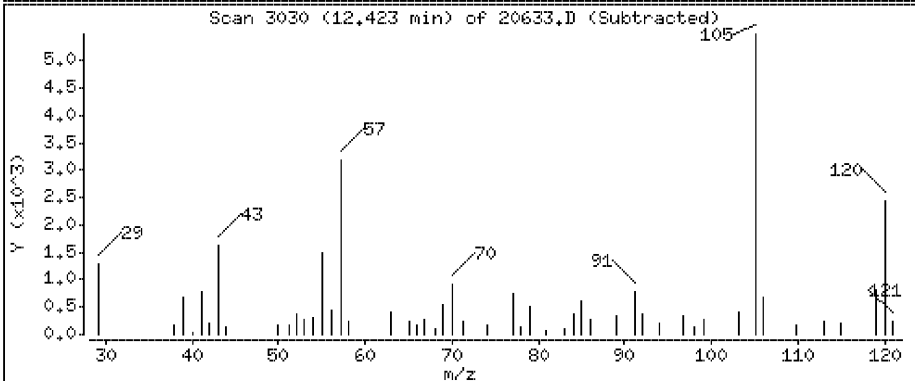
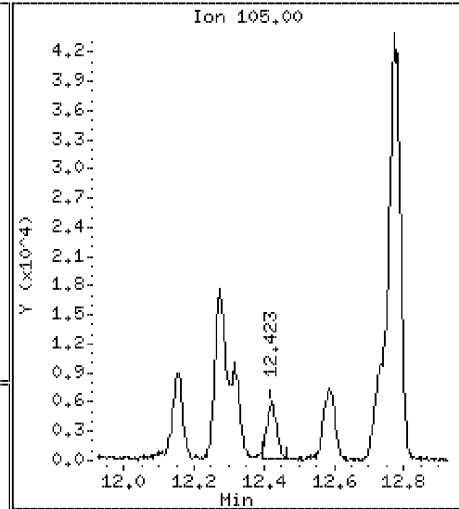
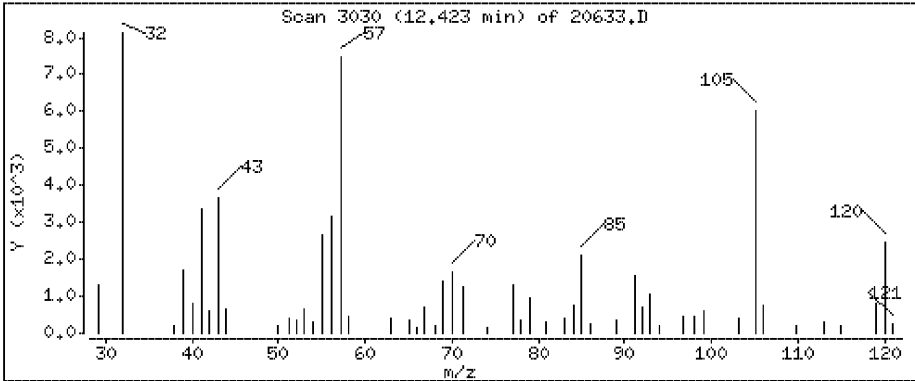
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

66 1,3,5-Trimethylbenzene

Concentration: 0.616 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20633.D

Date : 26-JUL-2013 05:04

Client ID:

Instrument: 10airD.i

Sample Info:

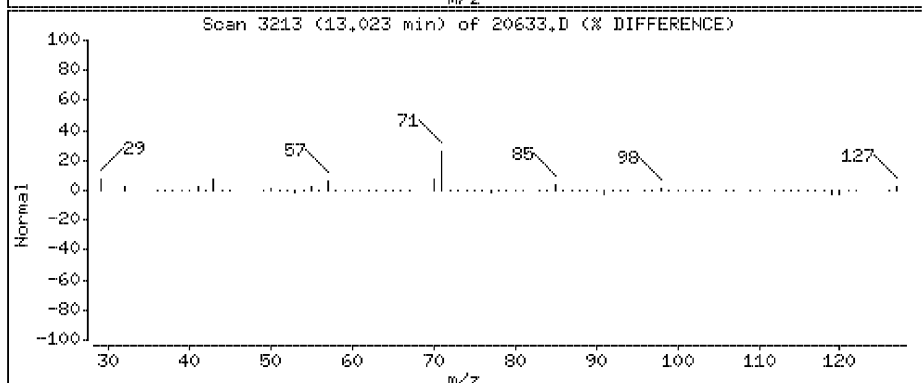
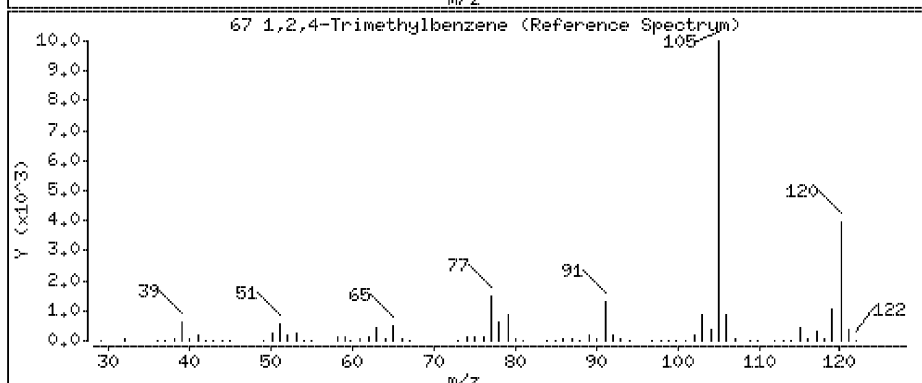
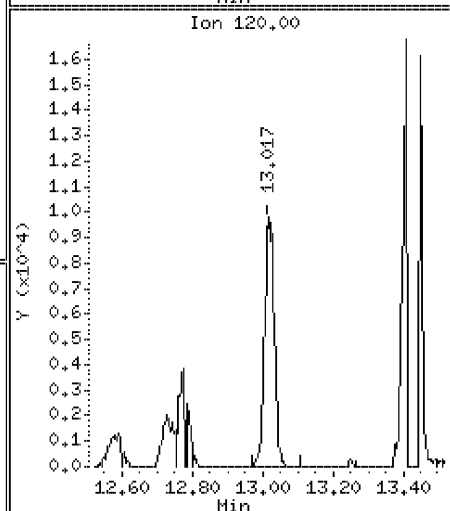
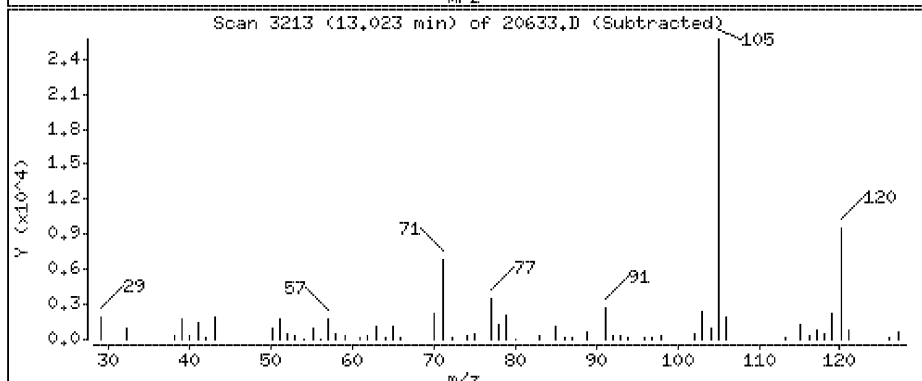
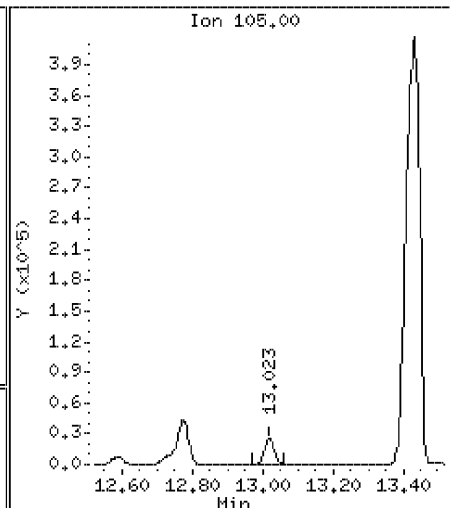
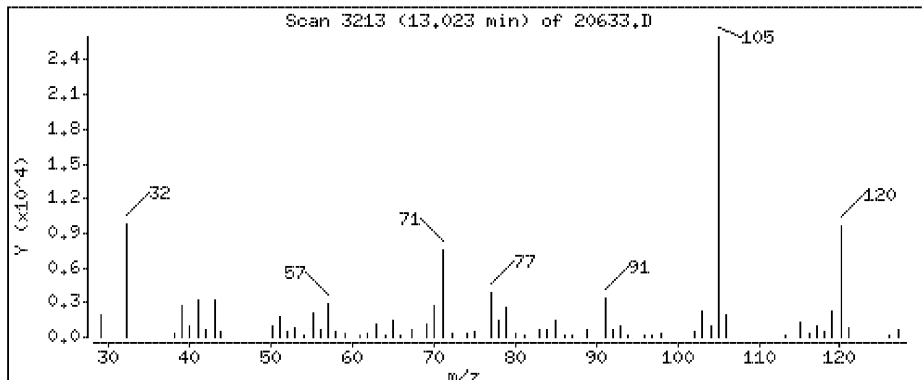
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

67 1,2,4-Trimethylbenzene

Concentration: 1.38 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20633.D

Date : 26-JUL-2013 05:04

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Instrument: 10airD.i

Sample Info:

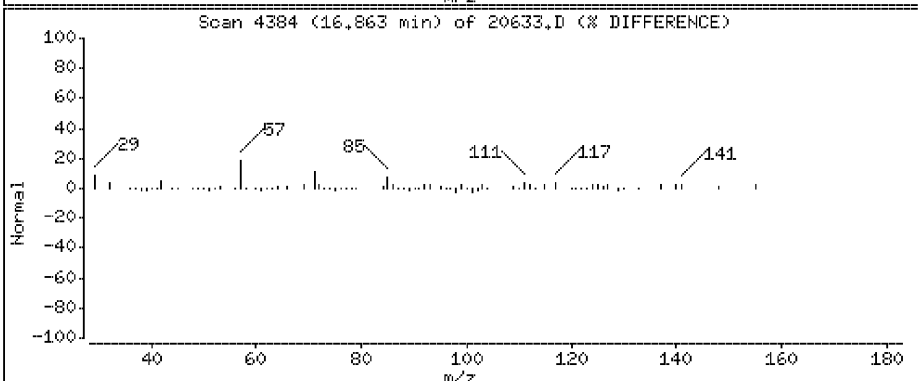
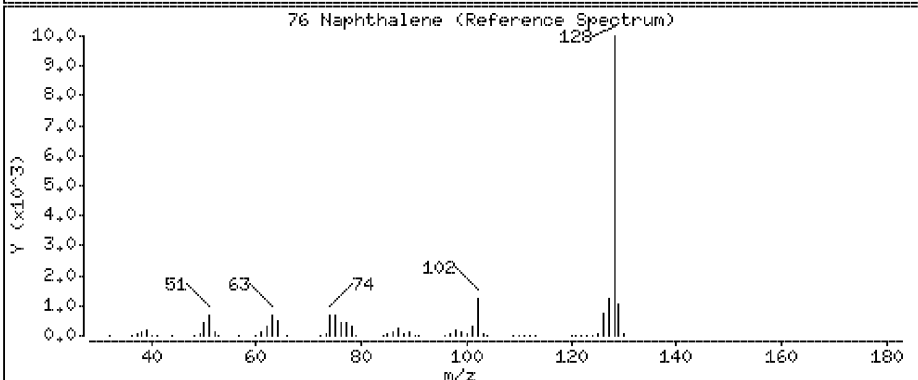
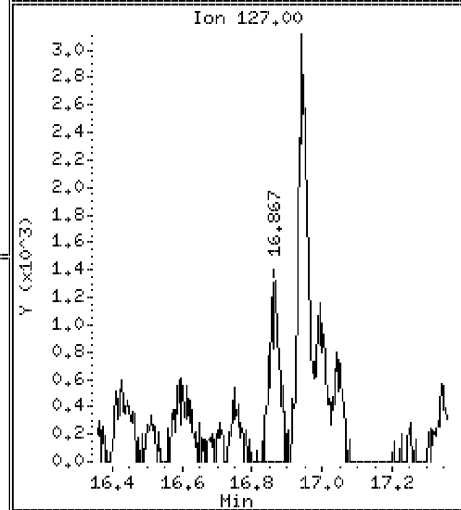
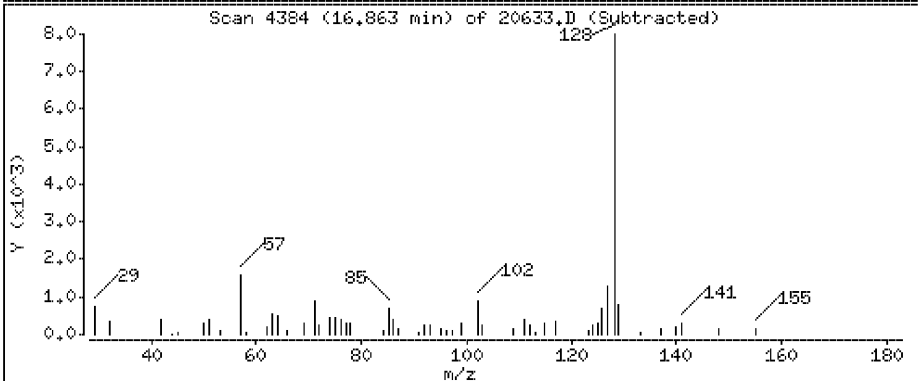
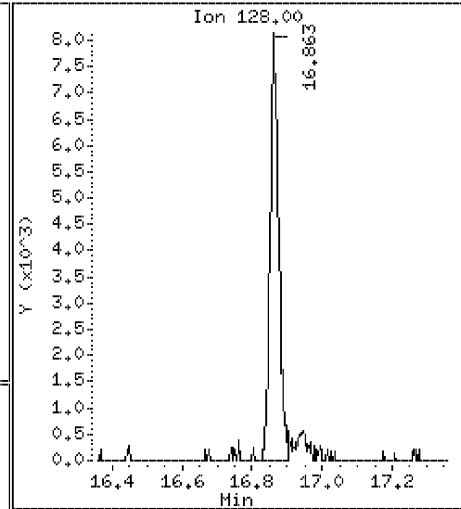
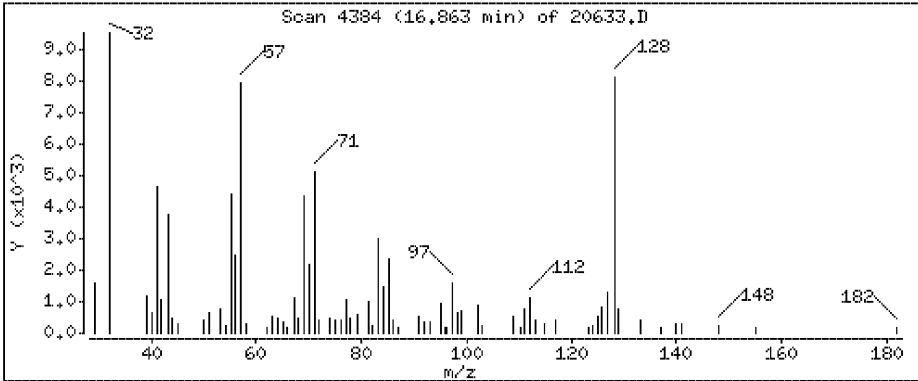
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

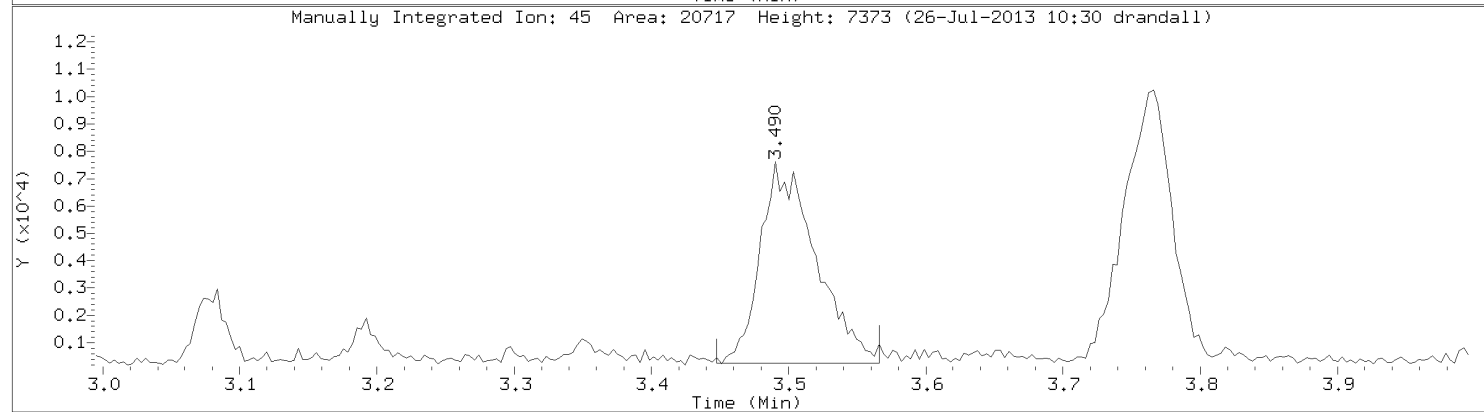
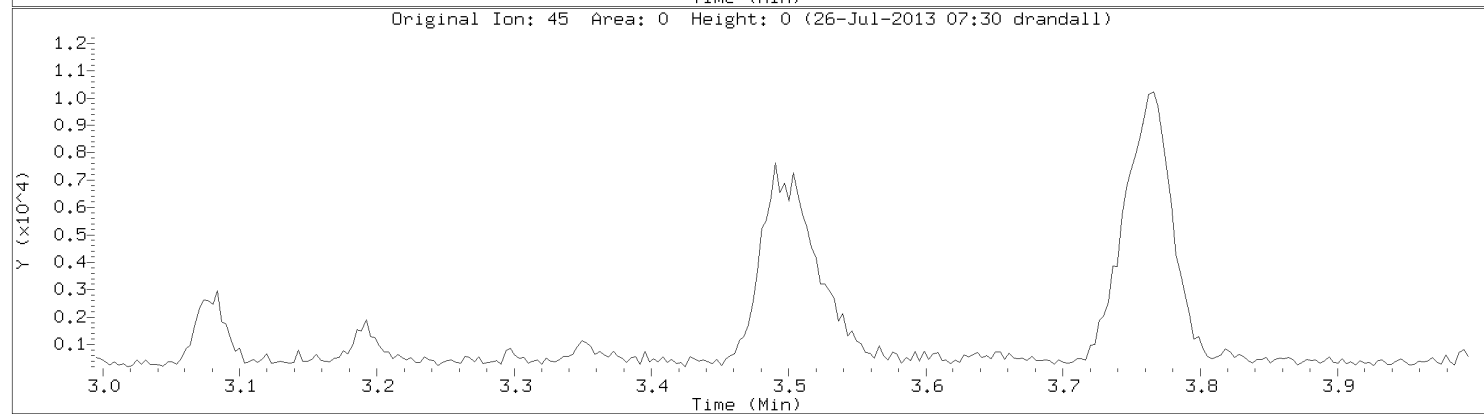
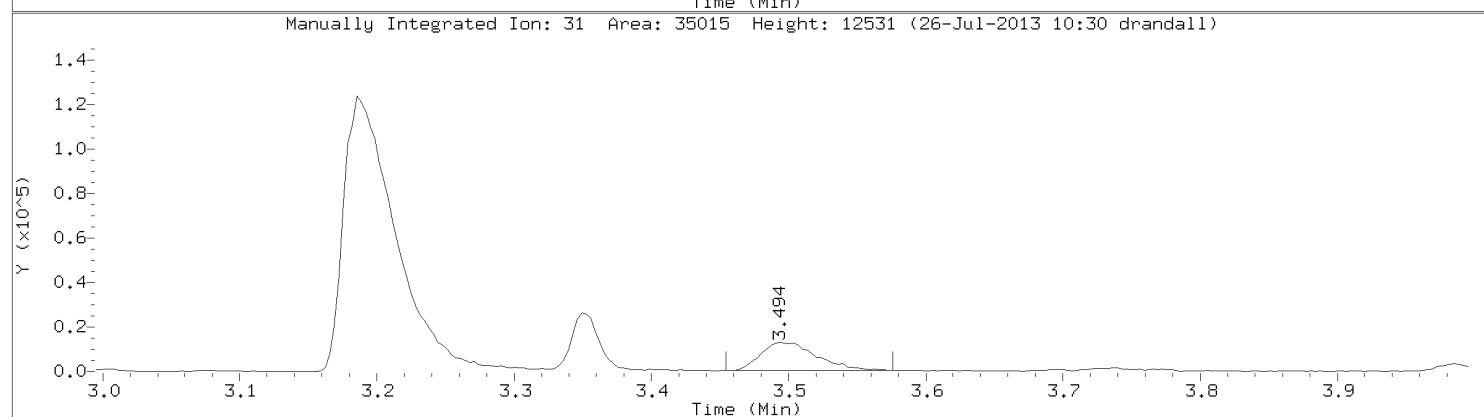
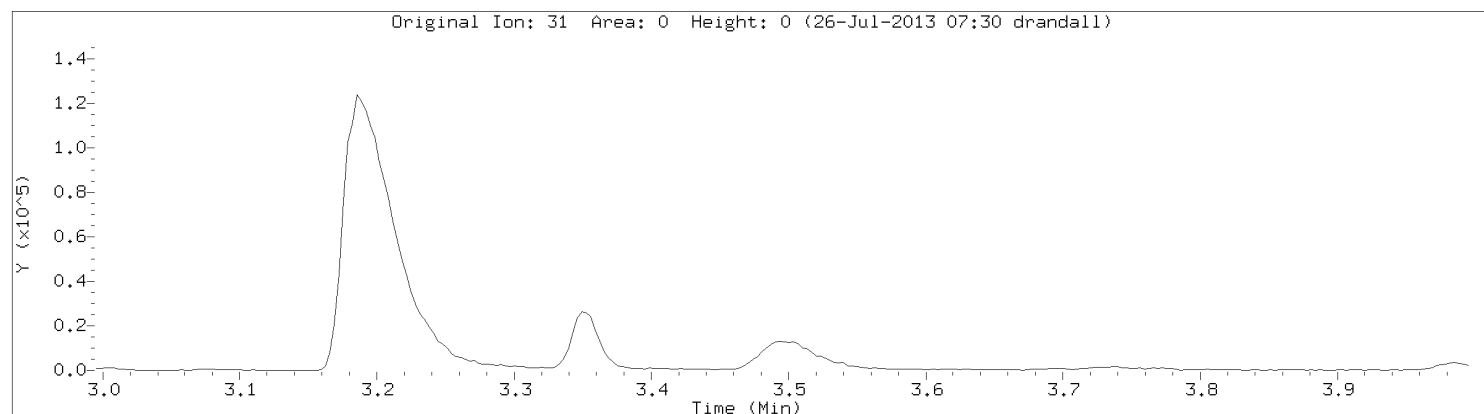
76 Naphthalene

Concentration: 0.982 ppbv



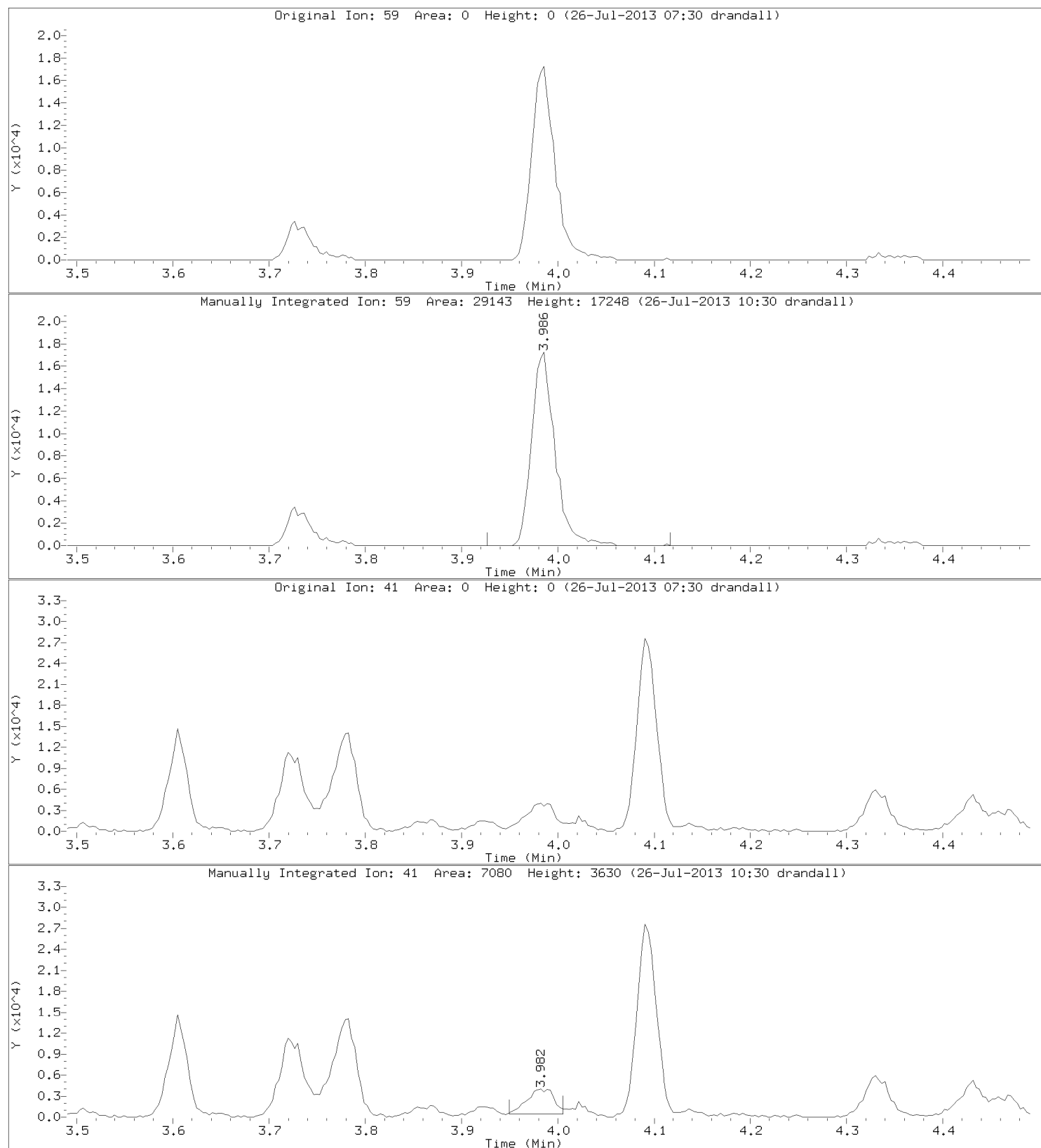
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Injection Date: 26-JUL-2013 05:04
Instrument: 10airD.i
Lab Sample ID: 10236207015

Compound: Ethanol
CAS Number: 64-17-5



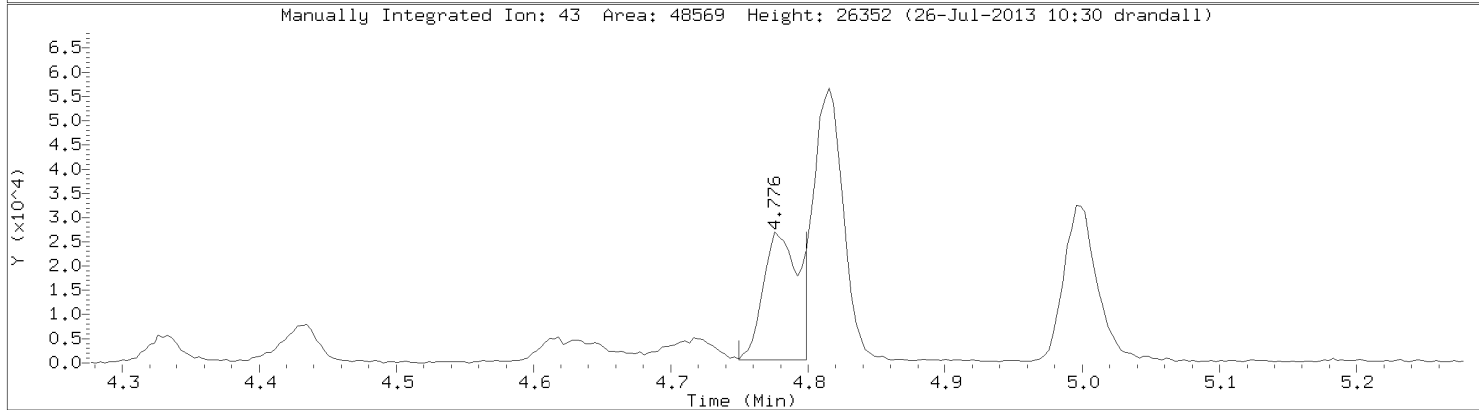
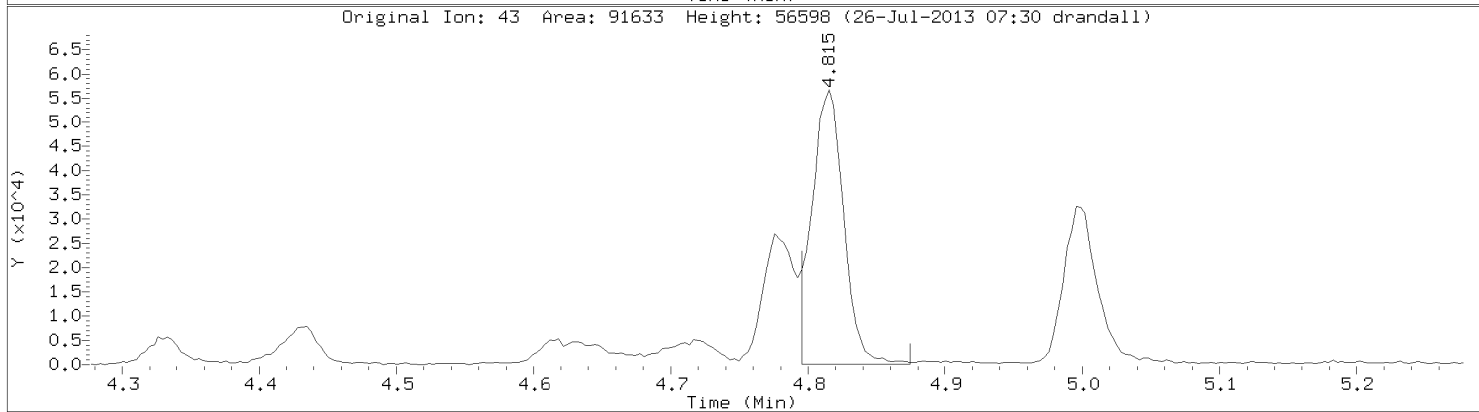
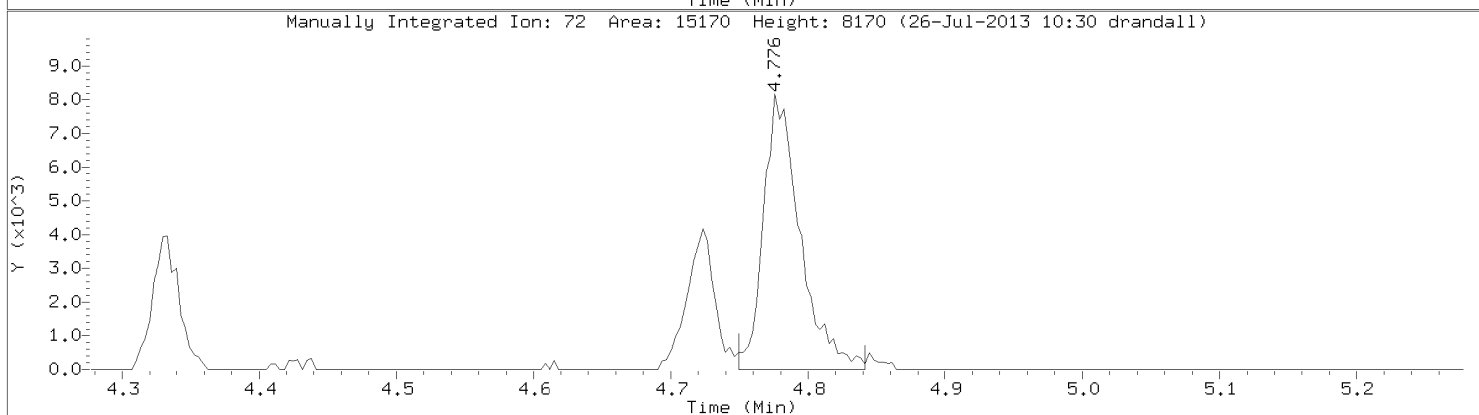
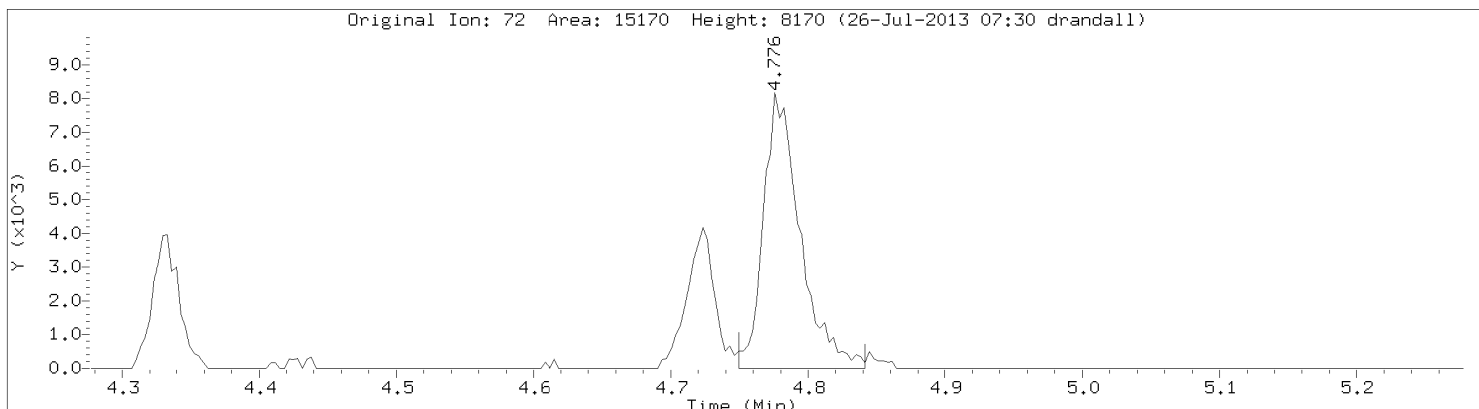
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Injection Date: 26-JUL-2013 05:04
Instrument: 10airD.i
Lab Sample ID: 10236207015

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



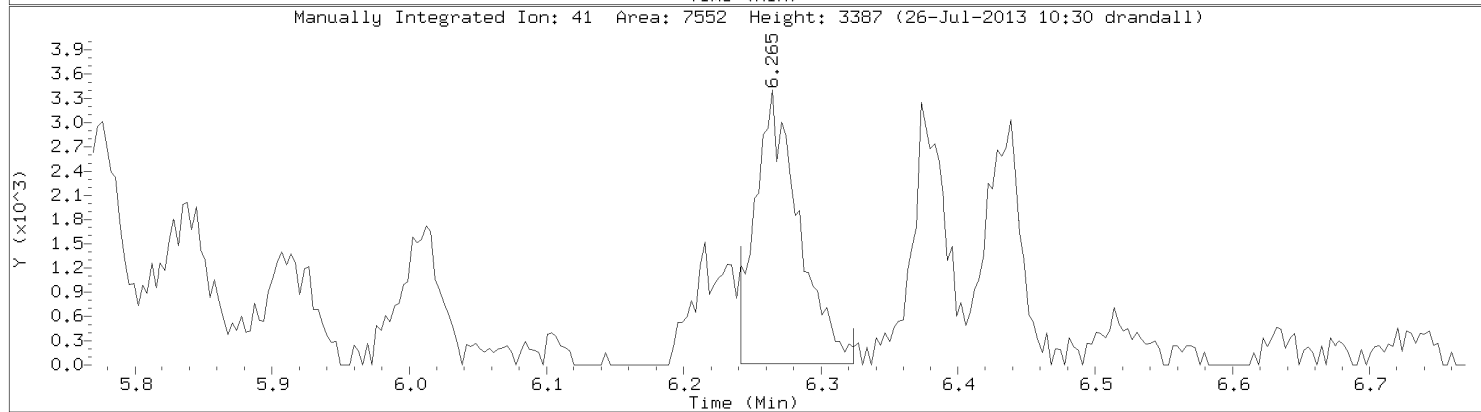
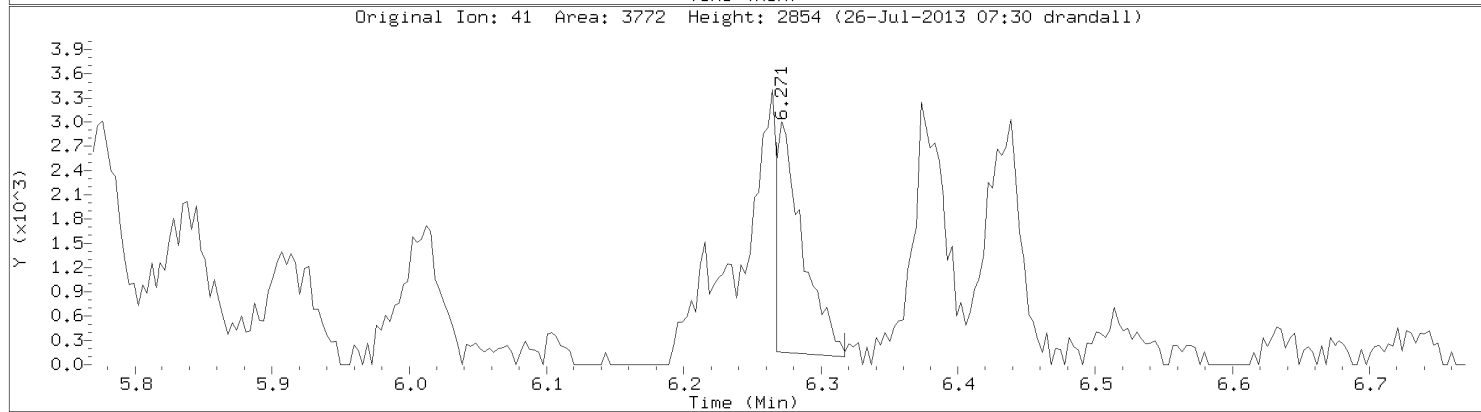
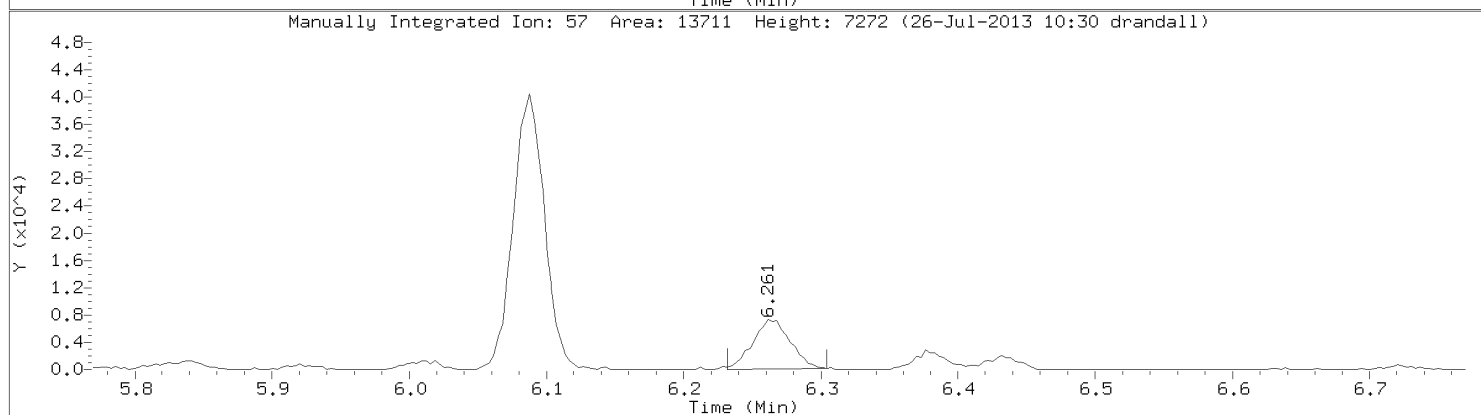
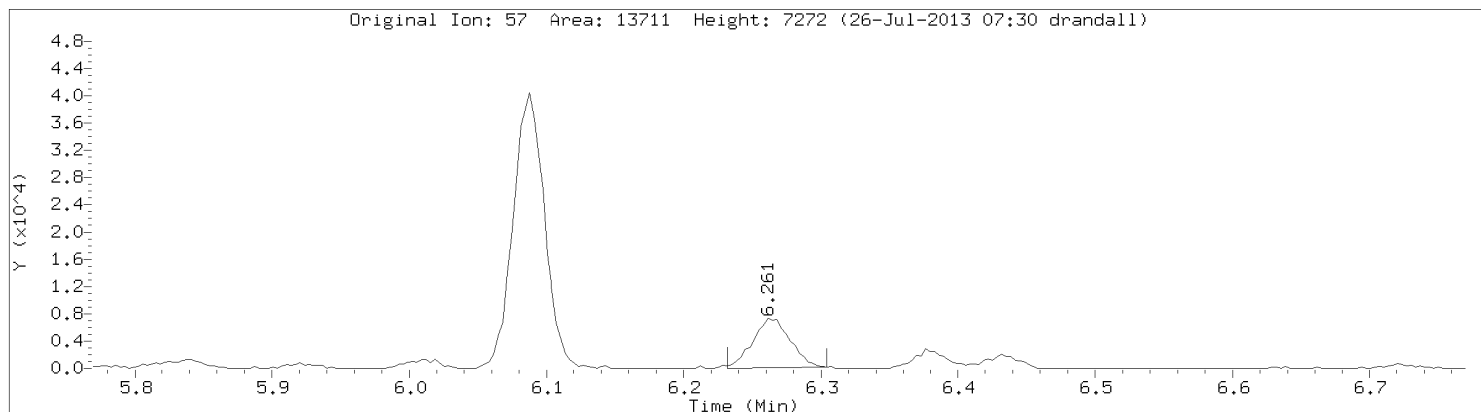
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Injection Date: 26-JUL-2013 05:04
Instrument: 10airD.i
Lab Sample ID: 10236207015

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

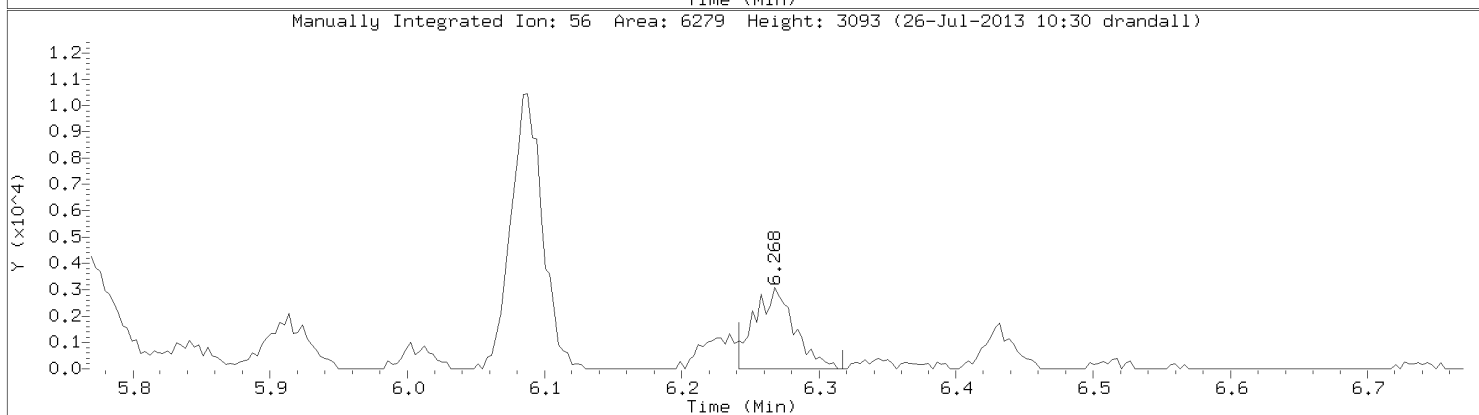
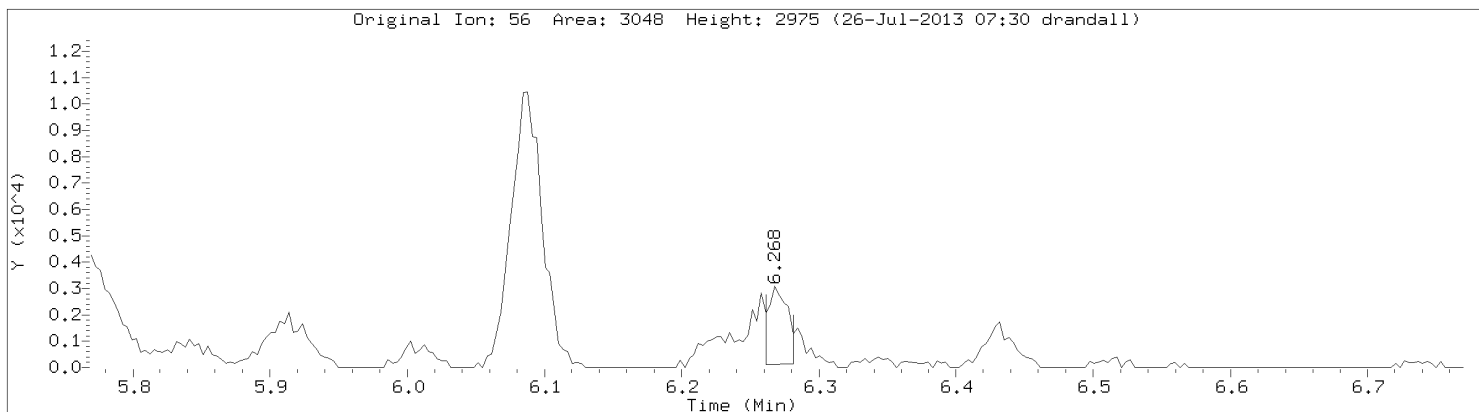


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Injection Date: 26-JUL-2013 05:04
Instrument: 10airD.i
Lab Sample ID: 10236207015

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

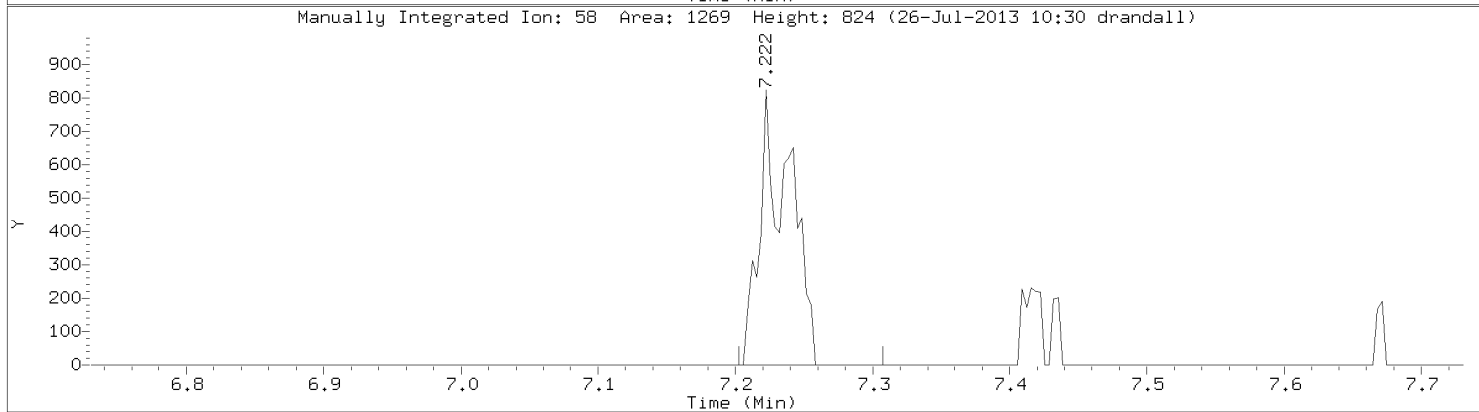
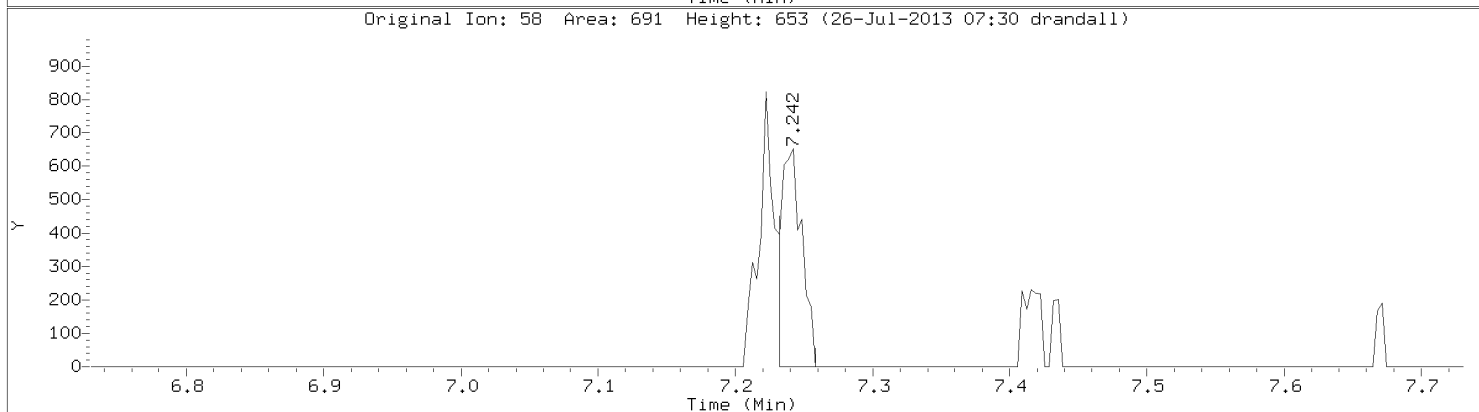
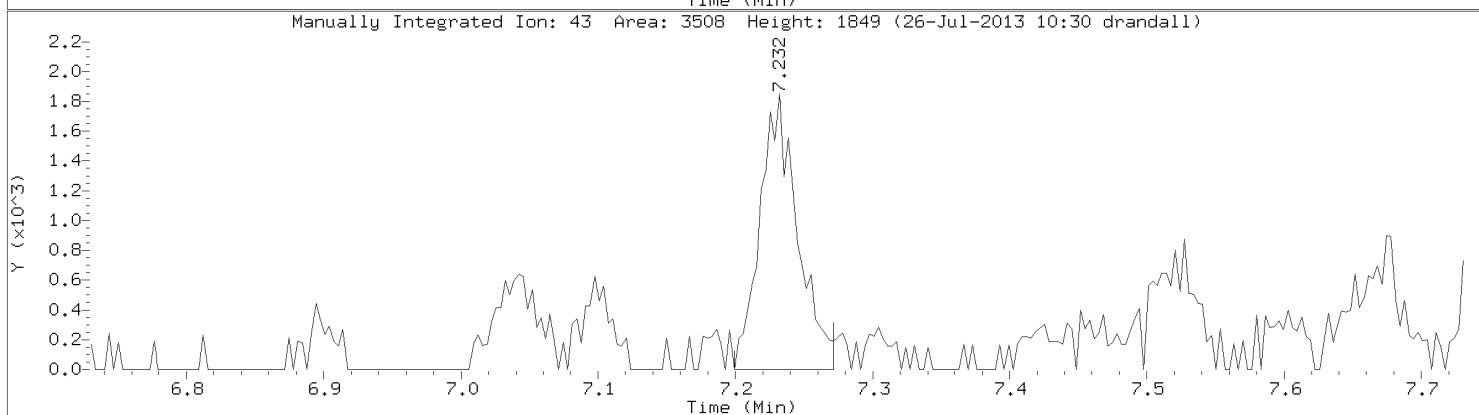
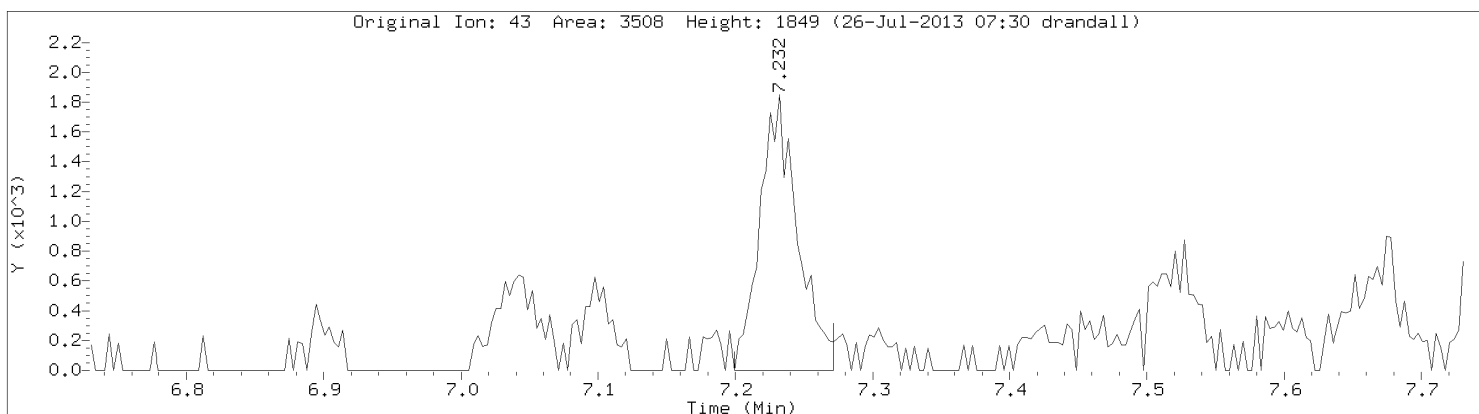


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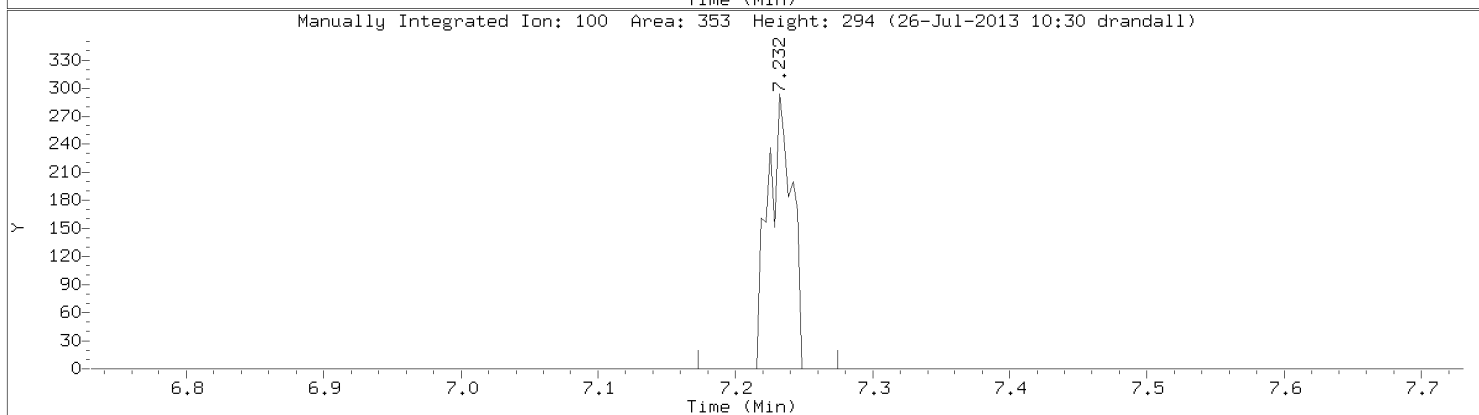
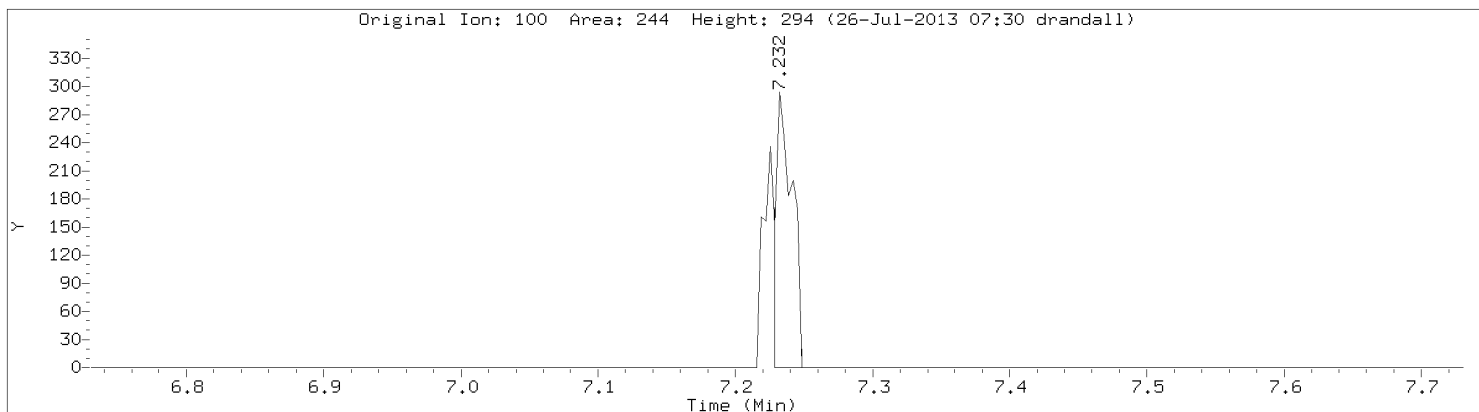


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Injection Date: 26-JUL-2013 05:04
Instrument: 10airD.i
Lab Sample ID: 10236207015

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

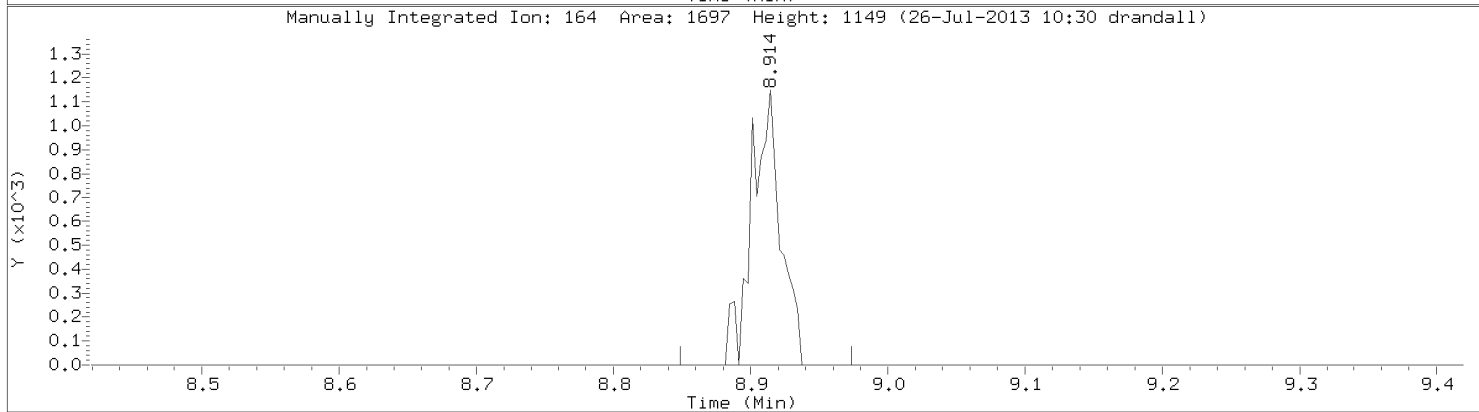
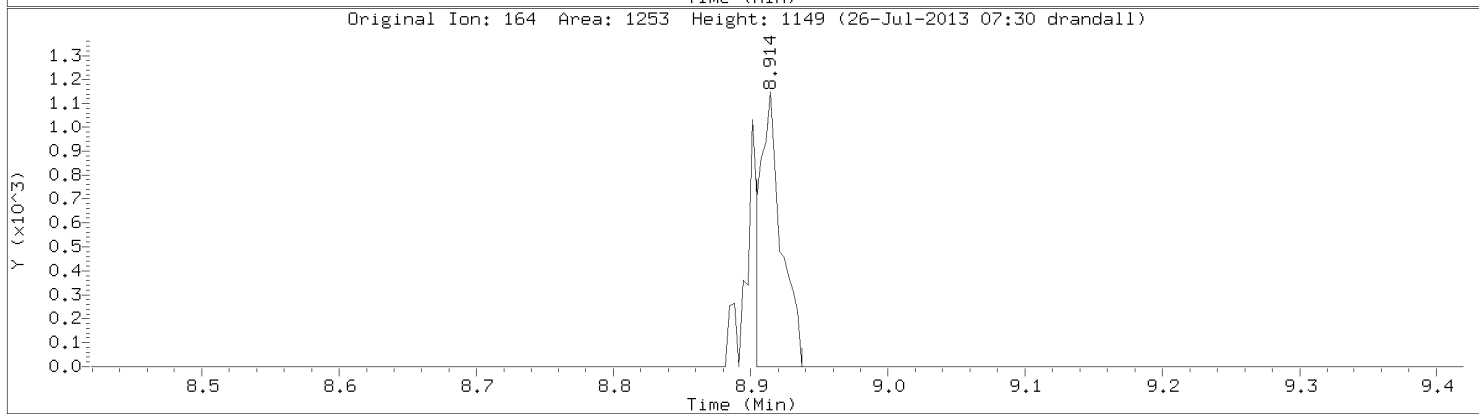
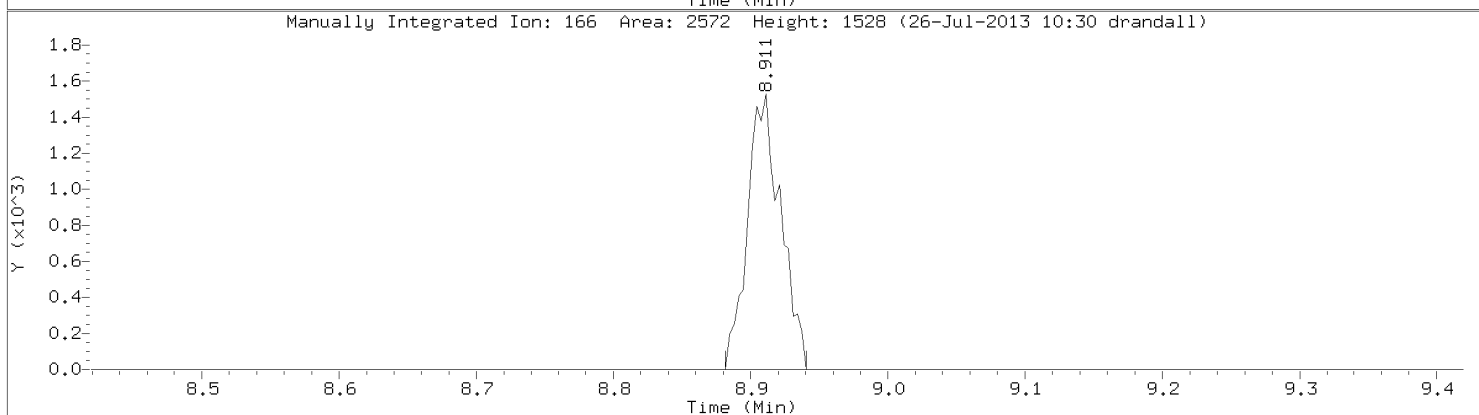
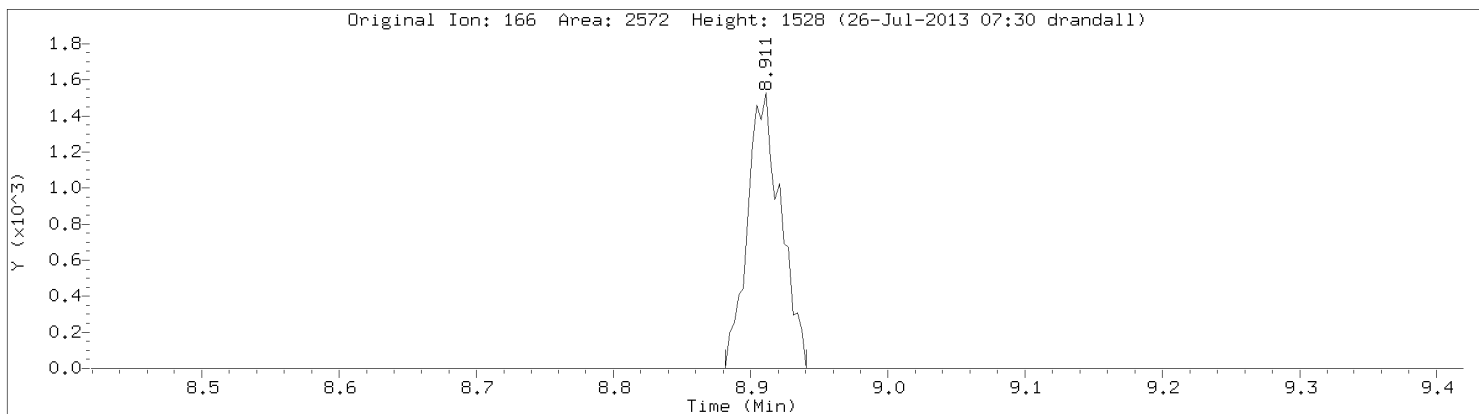


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Lab Sample ID: 10236207015

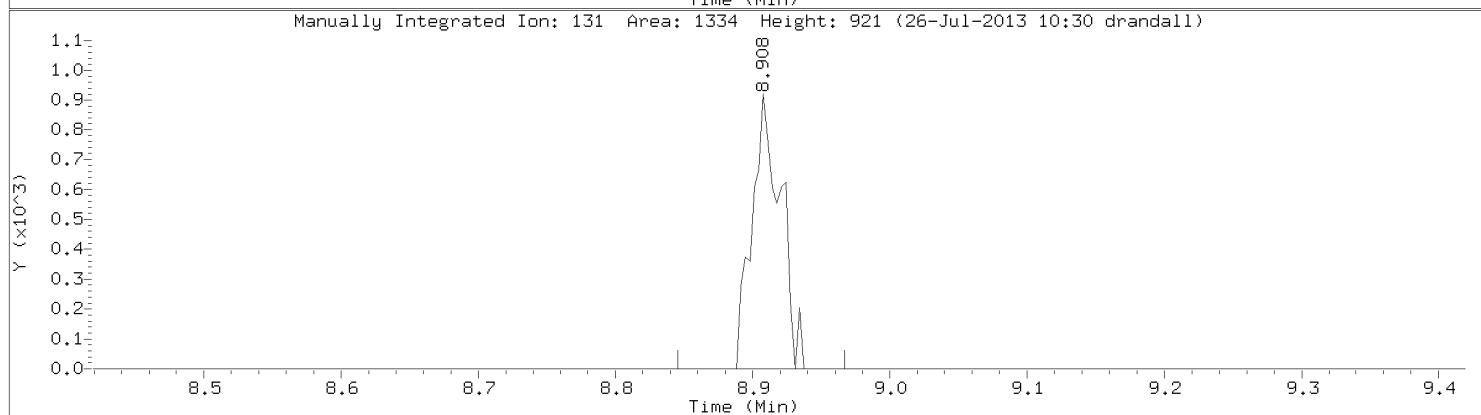
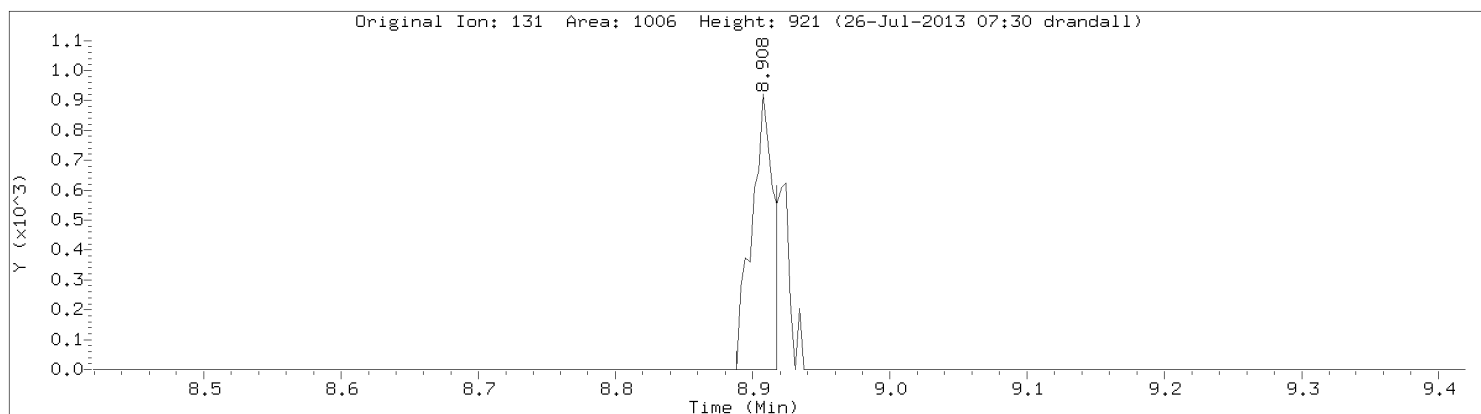


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Injection Date: 26-JUL-2013 05:04
Instrument: 10airD.i
Lab Sample ID: 10236207015

Compound: Tetrachloroethene
CAS Number: 127-18-4

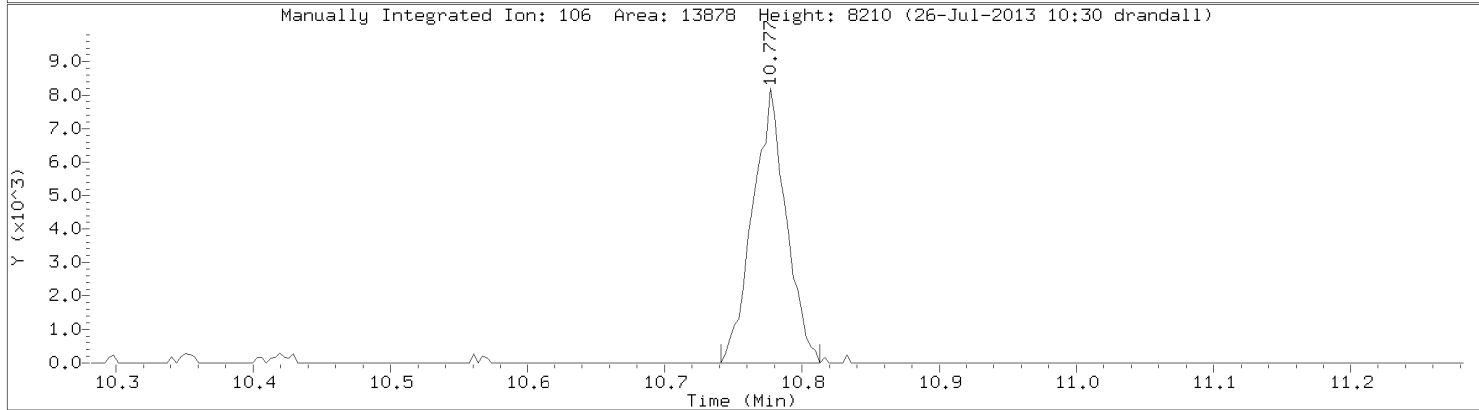
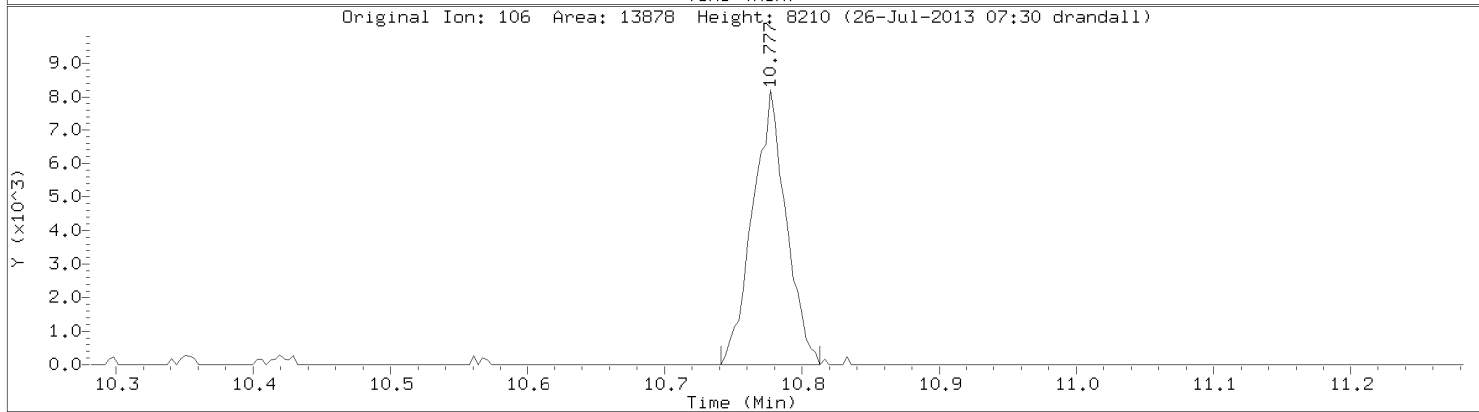
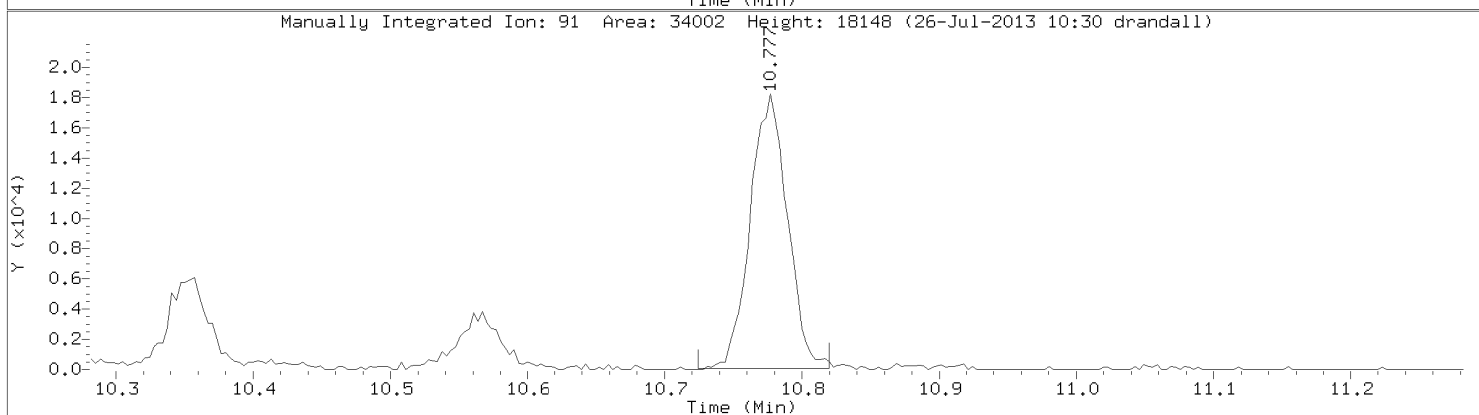
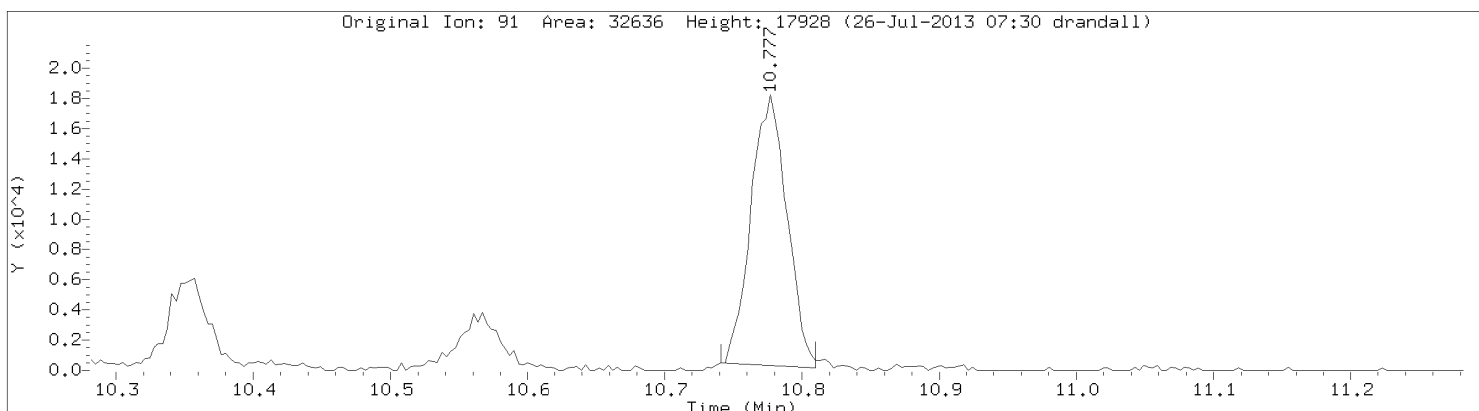


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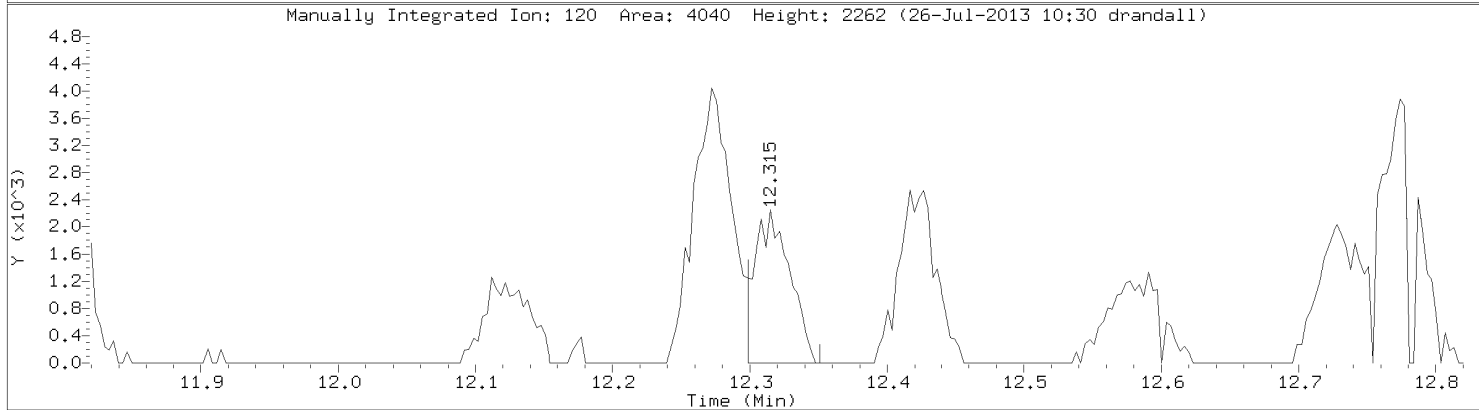
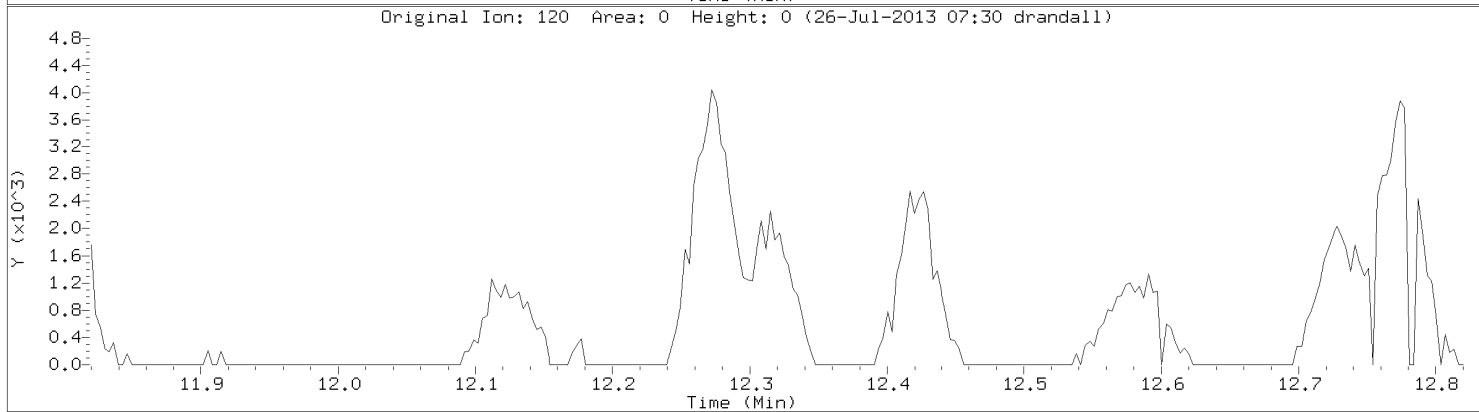
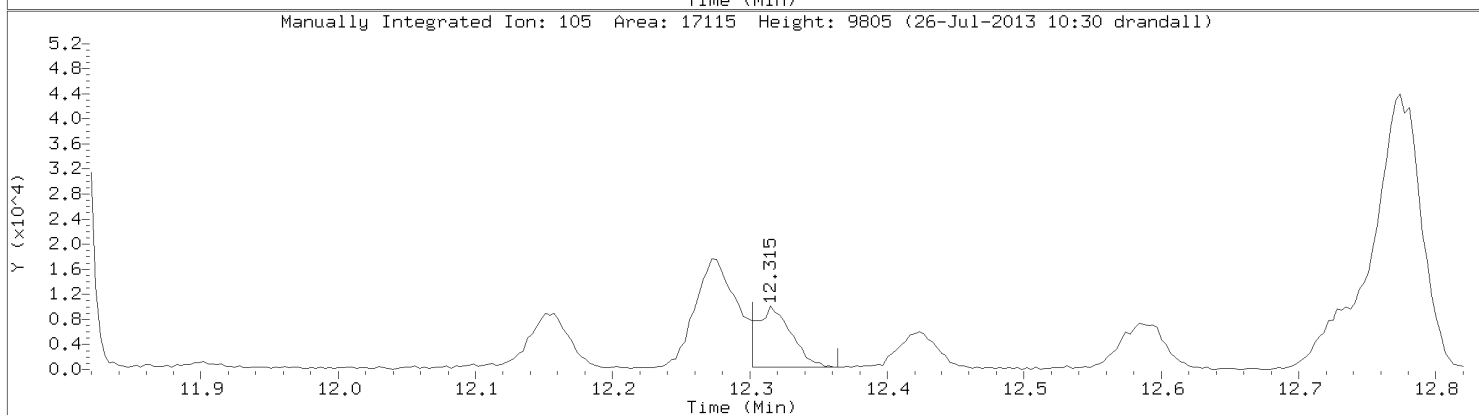
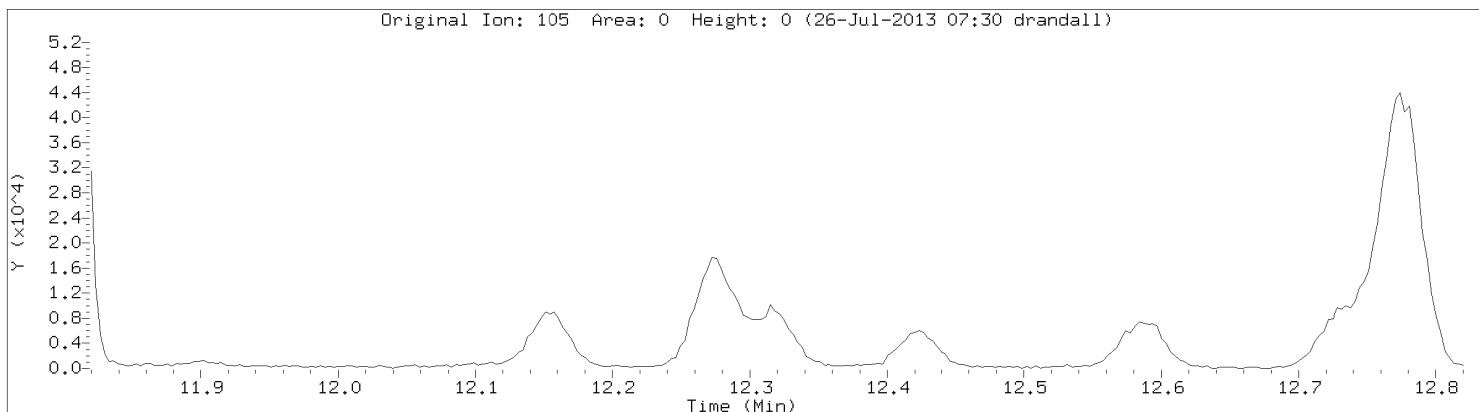
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Instrument: 10airD.i
Lab Sample ID: 10236207015

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

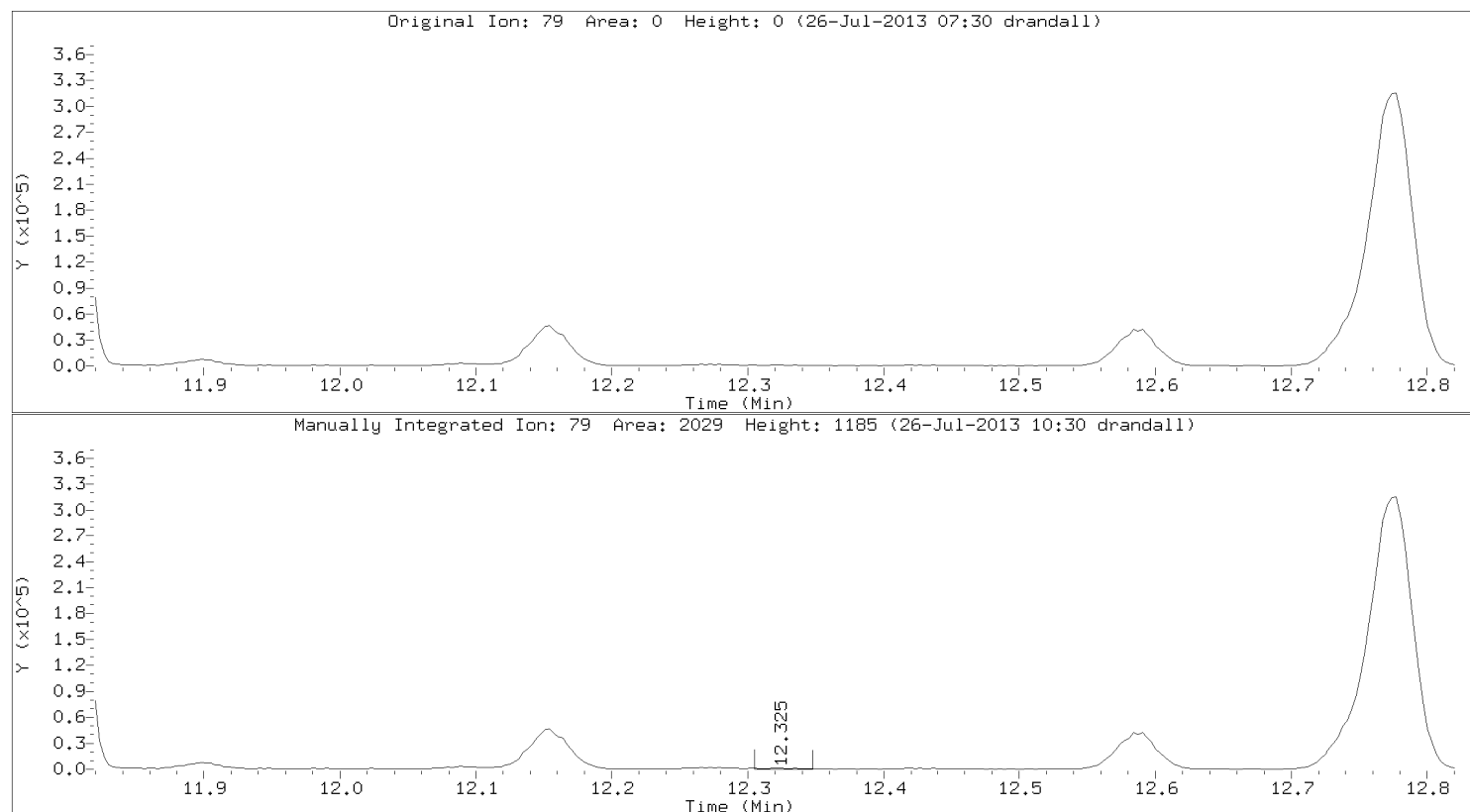


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Injection Date: 26-JUL-2013 05:04
Instrument: 10airD.i
Lab Sample ID: 10236207015

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

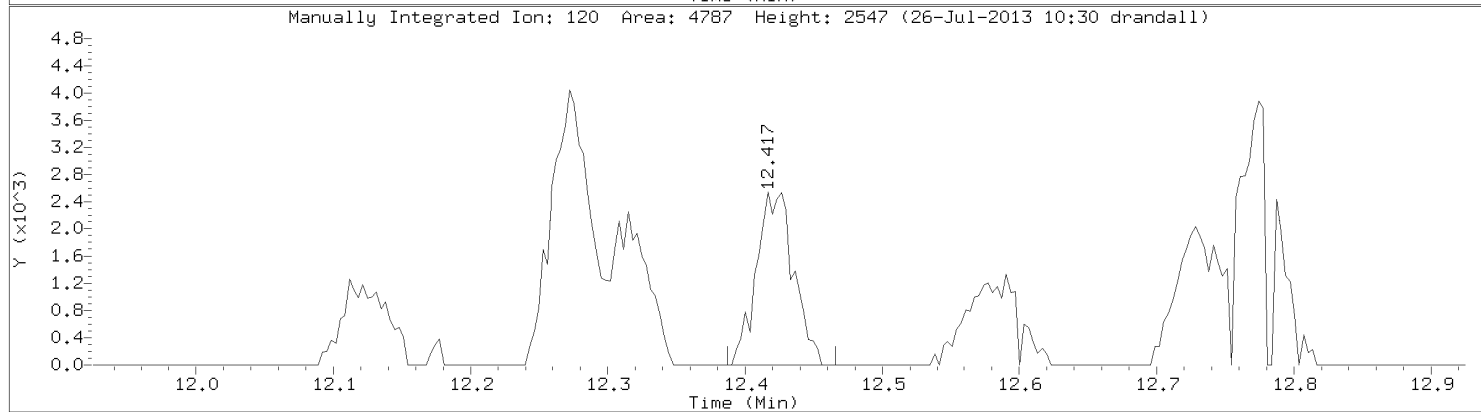
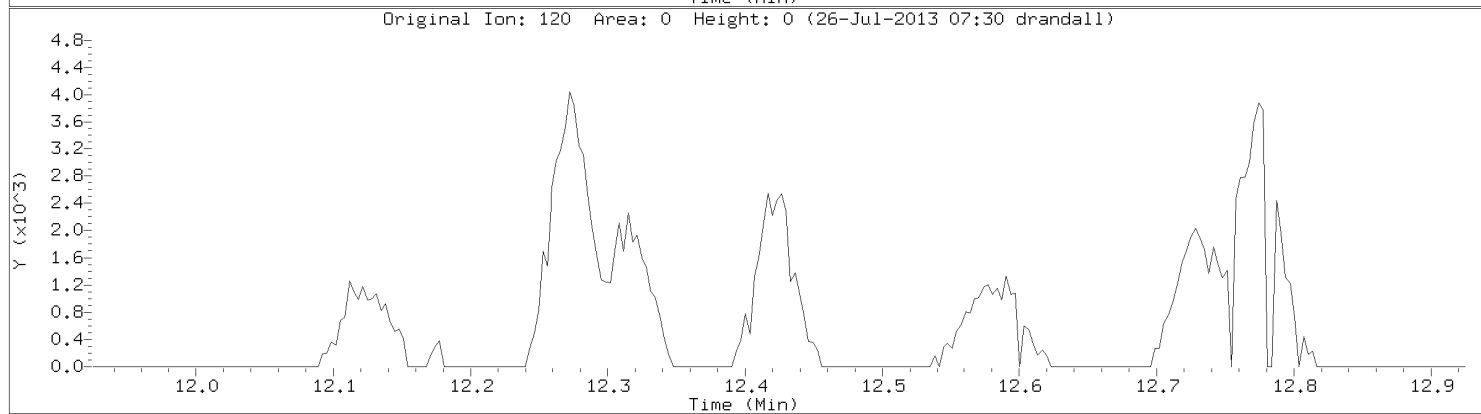
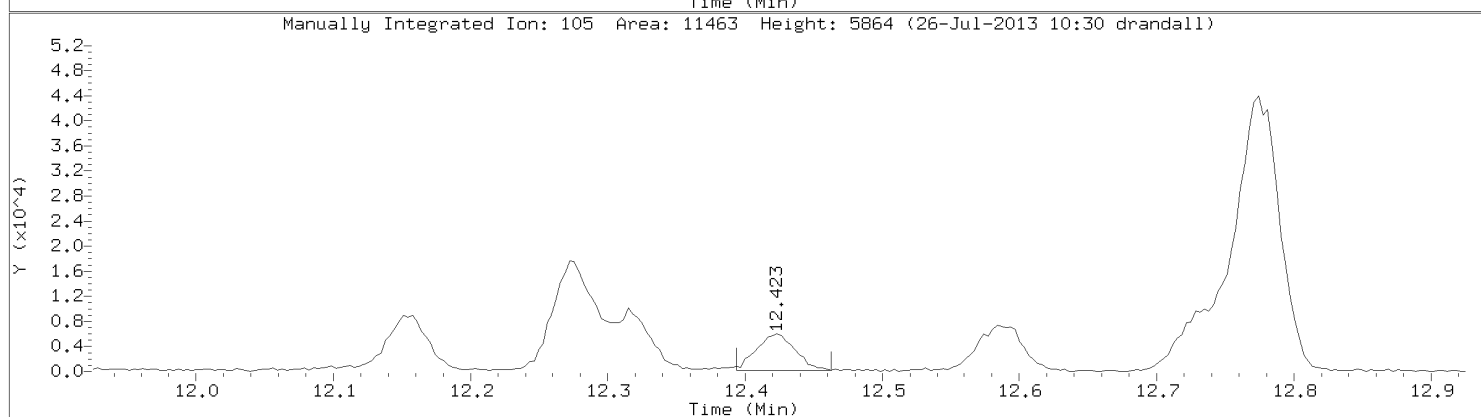
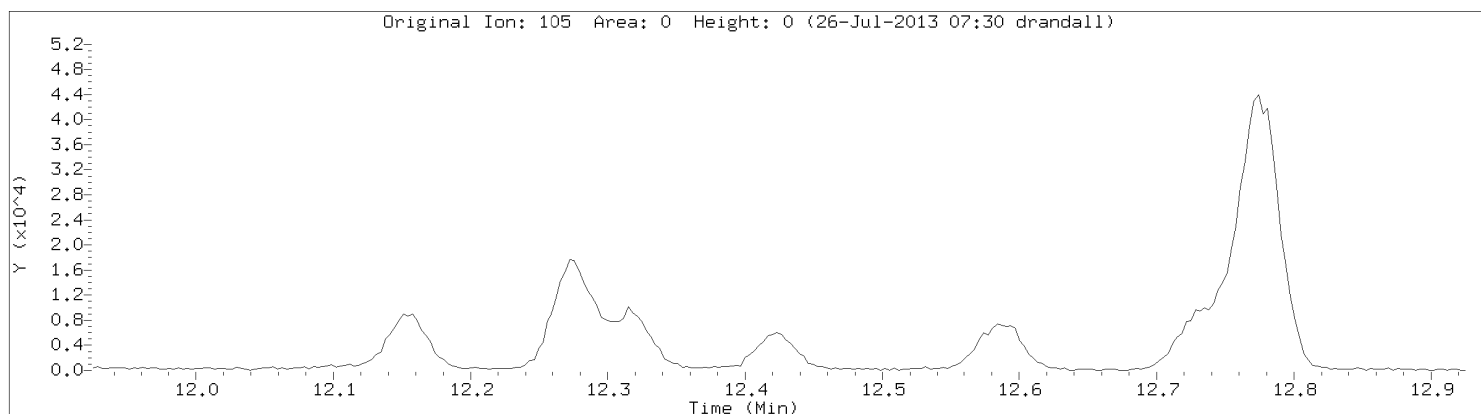


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Injection Date: 26-JUL-2013 05:04
Instrument: 10airD.i
Lab Sample ID: 10236207015



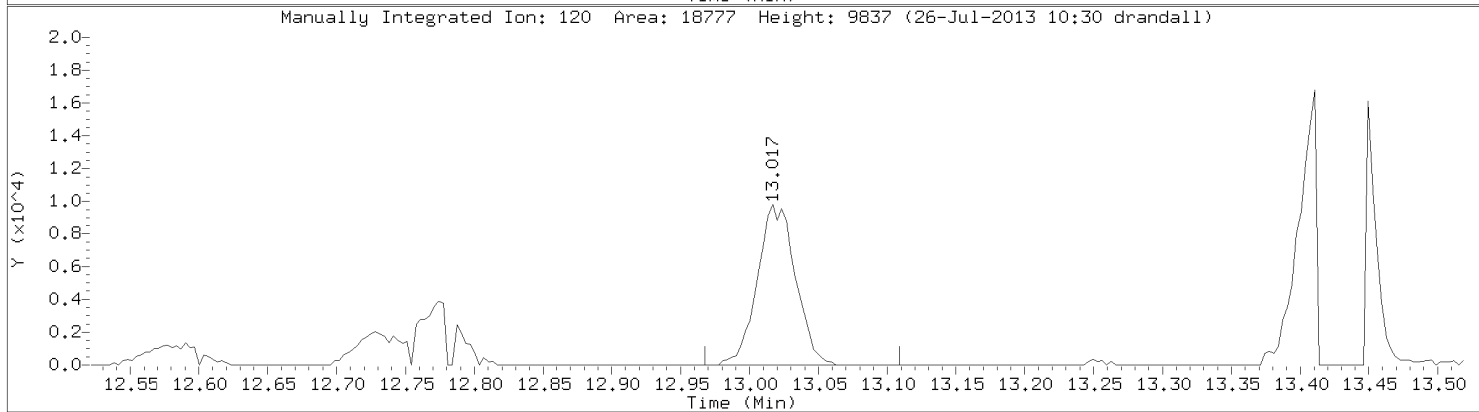
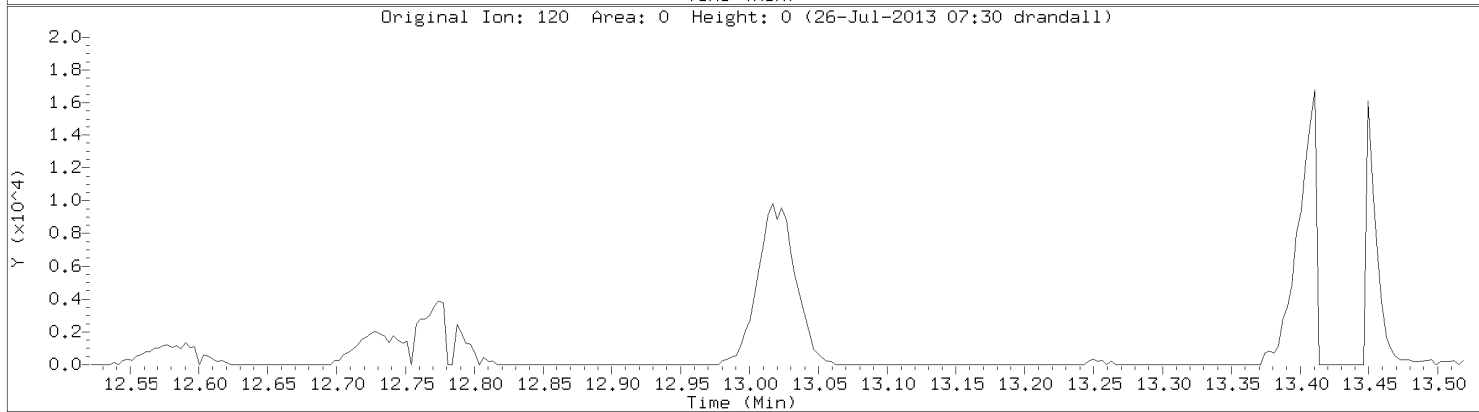
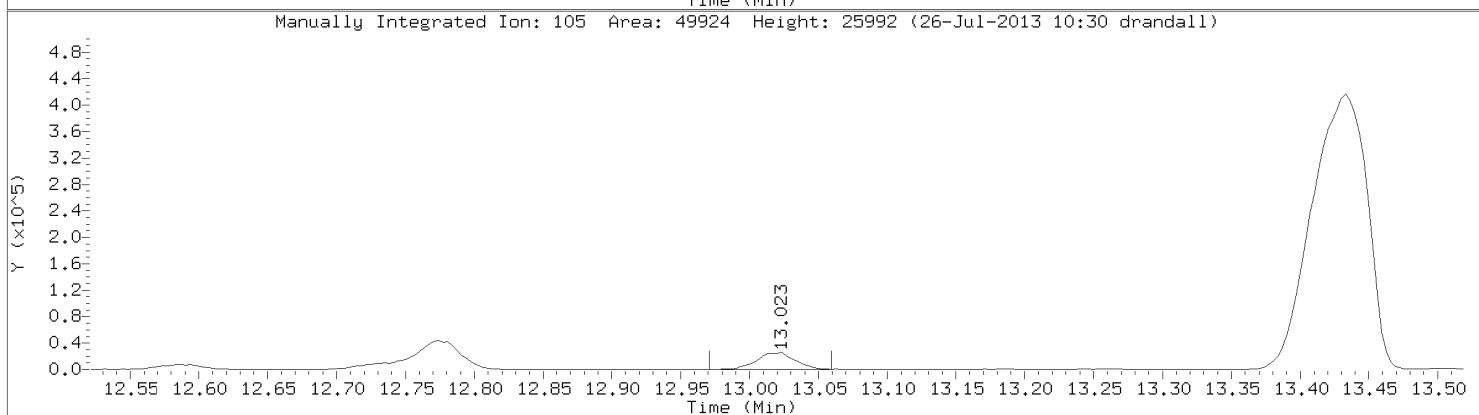
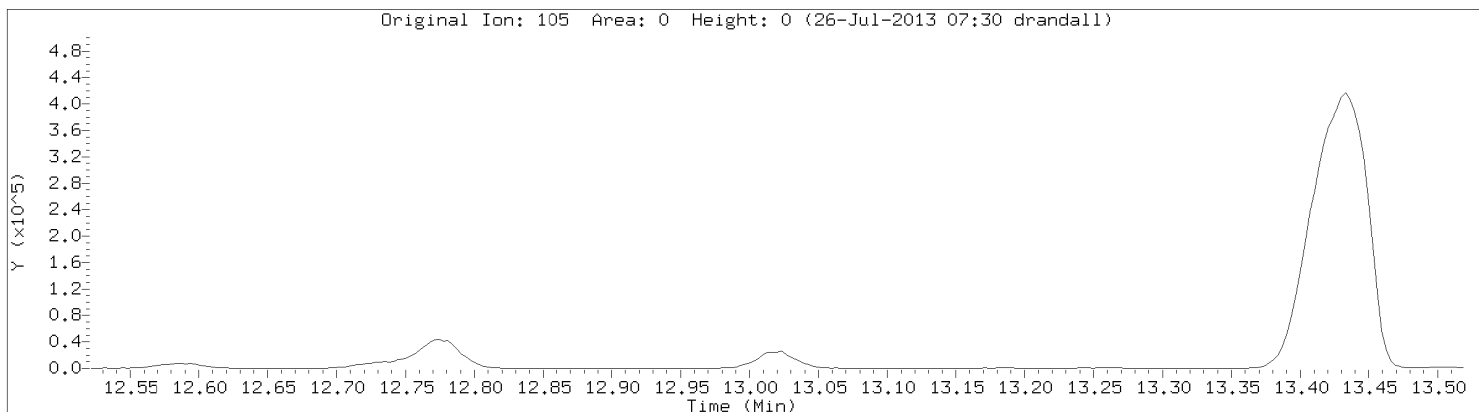
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Injection Date: 26-JUL-2013 05:04
Instrument: 10airD.i
Lab Sample ID: 10236207015

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



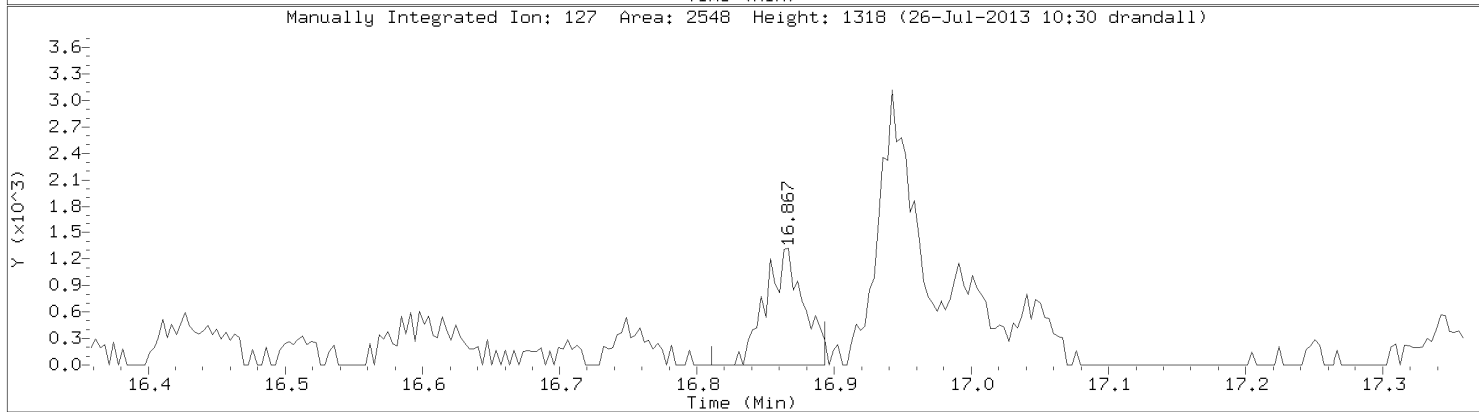
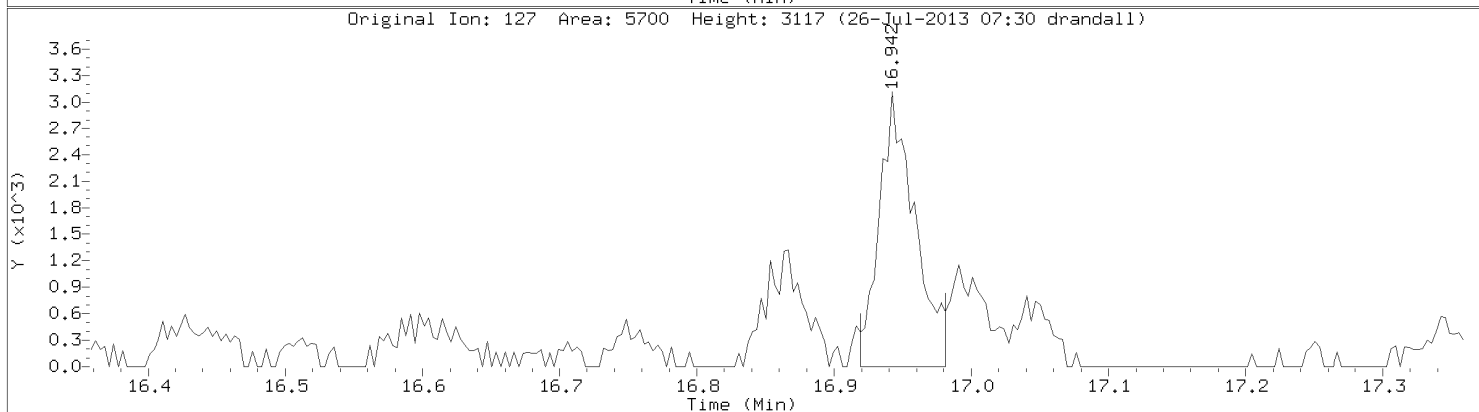
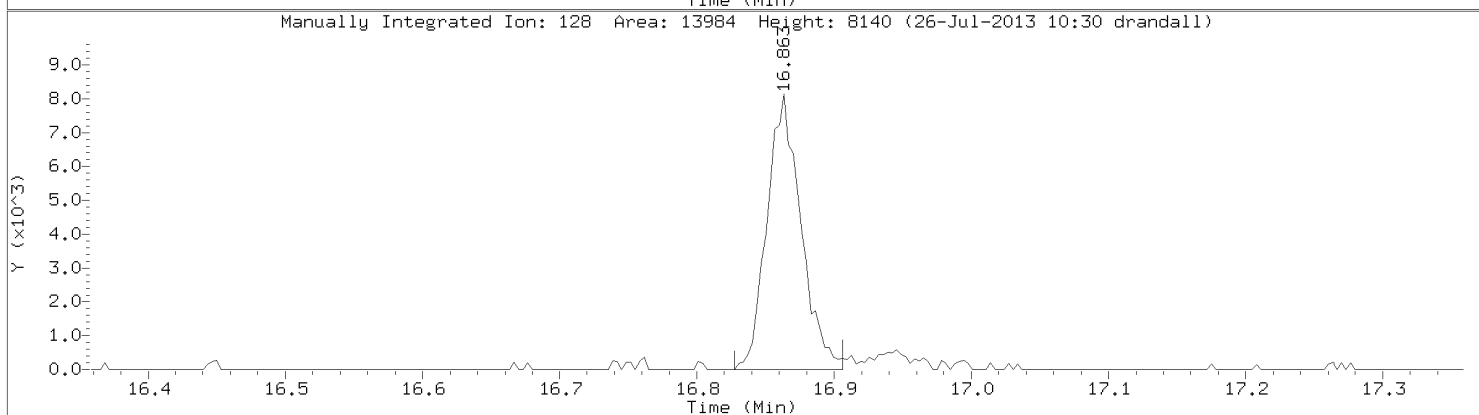
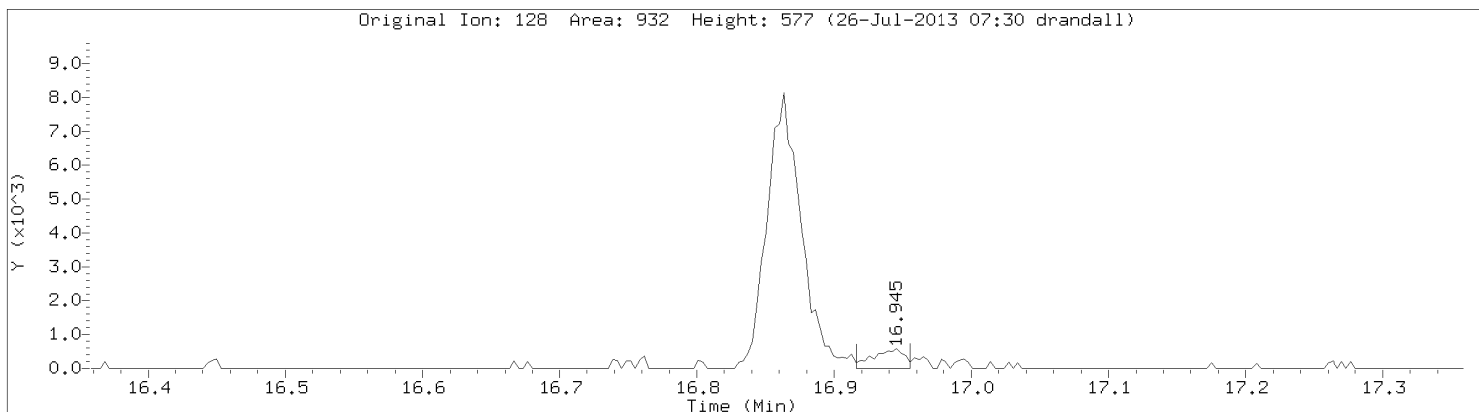
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Injection Date: 26-JUL-2013 05:04
Instrument: 10airD.i
Lab Sample ID: 10236207015

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



Data File: \\192.168.10.12\chem\10airD.i\072513.b\20633.d
Injection Date: 26-JUL-2013 05:04
Instrument: 10airD.i
Lab Sample ID: 10236207015

Compound: Naphthalene
CAS Number: 91-20-3



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airD.i\072513.b\20624.d
 Lab Smp Id: 10236207016
 Inj Date : 26-JUL-2013 00:30
 Operator : DR1 Inst ID: 10airD.i
 Smp Info :
 Misc Info : 17870
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
 Meth Date : 25-Jul-2013 16:57 creindl Quant Type: ISTD
 Cal Date : 24-JUL-2013 16:39 Cal File: 20509.d
 Als bottle: 24
 Dil Factor: 1.49000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.490	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
1 Propylene	41		2.972	2.982	(0.488)	61432	6.88290	10.2
2 Dichlorodifluoromethane	85		3.001	3.008	(0.493)	21574	0.24805	0.370
3 Dichlorotetrafluoroethane	85							
4 Chloromethane	50							
5 Vinyl chloride	62							
6 1,3-Butadiene	54							
7 Bromomethane	94							
8 Chloroethane	64							
9 Ethanol	31		3.509	3.494	(0.577)	19269	1.85964	2.77 (M)
10 Vinyl Bromide	106							
11 Acrolein	56							
12 Trichlorofluoromethane	101		3.693	3.694	(0.607)	11486	0.12140	0.181 (M)
13 Acetone	43		3.736	3.726	(0.614)	181528	3.82774	5.70 (M)
14 Isopropyl Alcohol	45							
15 1,1-Dichloroethene	61							
16 Acrylonitrile	53							
17 Tert Butyl Alcohol	59							
18 Freon 113	101							
19 Methylene chloride	49		4.096	4.094	(0.673)	5571	0.20734	0.309
20 Allyl Chloride	76							
21 Carbon Disulfide	76		4.228	4.224	(0.695)	9964	0.12743	0.190
22 trans-1,2-dichloroethene	96							
23 Methyl Tert Butyl Ether	73							
24 Vinyl Acetate	43							

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppbv)	FINAL (ppbv)
25 1,1-Dichloroethane	63		Compound Not Detected.						
\$ 26 Hexane-d14(S)	66		4.700	4.700	(0.772)	299682	8.67530	8.68	
27 Methyl Ethyl Ketone	72		4.785	4.779	(0.786)	11690	1.06469	1.59 (M)	
28 n-Hexane	57		4.818	4.818	(0.792)	13742	0.43760	0.652 (QM)	
29 cis-1,2-Dichloroethene	96		Compound Not Detected.						
30 Ethyl Acetate	43		5.002	4.999	(0.822)	42353	1.43847	2.14 (Q)	
31 Chloroform	83		Compound Not Detected.						
32 Tetrahydrofuran	42		Compound Not Detected.						
33 1,1,1-Trichloroethane	97		Compound Not Detected.						
34 1,2-Dichloroethane	62		Compound Not Detected.						
35 Benzene	78		5.880	5.887	(0.966)	30475	0.84880	1.26	
36 Carbon tetrachloride	117		Compound Not Detected.						
37 Cyclohexane	56		Compound Not Detected.						
* 38 1,4-Difluorobenzene	114		6.087	6.094	(1.000)	715360	10.0000		
39 2,2,4-Trimethylpentane	57		Compound Not Detected.						
40 Heptane	43		6.431	6.442	(1.057)	3574	0.58303	0.869 (M)	
41 1,2-Dichloropropane	63		Compound Not Detected.						
42 Trichloroethene	130		Compound Not Detected.						
43 1,4-Dioxane	88		Compound Not Detected.						
44 Bromodichloromethane	83		Compound Not Detected.						
45 Methyl Isobutyl Ketone	43		Compound Not Detected.						
46 cis-1,3-Dichloropropene	75		Compound Not Detected.						
47 trans-1,3-Dichloropropene	75		Compound Not Detected.						
\$ 48 Toluene-d8 (S)	98		7.841	7.848	(1.288)	491730	9.84239	9.84	
49 Toluene	91		7.930	7.940	(1.303)	57306	1.07863	1.61	
50 1,1,2-Trichloroethane	97		Compound Not Detected.						
51 Methyl Butyl Ketone	43		Compound Not Detected.						
52 Dibromochloromethane	129		Compound Not Detected.						
53 1,2-Dibromoethane	107		Compound Not Detected.						
54 Tetrachloroethene	166		8.917	8.918	(0.921)	2075	0.42979	0.640 (M)	
* 55 Chlorobenzene - d5	117		9.684	9.691	(1.000)	256931	10.0000		
56 Chlorobenzene	112		Compound Not Detected.						
57 Ethyl Benzene	91		10.032	10.039	(1.036)	21785	0.53013	0.790 (M)	
58 m&p-Xylene	91		10.199	10.213	(1.053)	85704	1.35455	2.02	
59 Bromoform	173		Compound Not Detected.						
60 Styrene	104		Compound Not Detected.						
61 o-Xylene	91		10.773	10.783	(1.112)	29667	0.55521	0.827	
62 1,1,2,2-Tetrachloroethane	83		Compound Not Detected.						
63 Isopropylbenzene	105		Compound Not Detected.						
64 N-Propylbenzene	91		Compound Not Detected.						
65 4-Ethyltoluene	105		12.318	12.321	(1.272)	18825	0.52664	0.785 (M)	
66 1,3,5-Trimethylbenzene	105		12.426	12.426	(1.283)	12257	0.44601	0.664 (M)	
67 1,2,4-Trimethylbenzene	105		13.016	13.020	(1.344)	52134	1.02358	1.52 (M)	
68 1,3-Dichlorobenzene	146		Compound Not Detected.						
69 Sec- Butylbenzene	105		Compound Not Detected.						
\$ 70 1,4-dichlorobenzene-d4 (S)	150		13.459	13.459	(1.390)	111822	10.7823	10.8	
71 Benzyl Chloride	91		Compound Not Detected.						
72 1,4-Dichlorobenzene	146		Compound Not Detected.						
73 1,2-Dichlorobenzene	146		Compound Not Detected.						
74 N-Butylbenzene	91		Compound Not Detected.						
75 1,2,4-Trichlorobenzene	180		Compound Not Detected.						
76 Naphthalene	128		16.866	16.860	(1.742)	21351	0.89242	1.33 (M)	
77 Hexachlorobutadiene	225		Compound Not Detected.						

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20624.d
Report Date: 26-Jul-2013 08:15

QC Flag Legend

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

Data File: \\192.168.10.12\chem\10airD.i\072513.b\20624.d
 Report Date: 26-Jul-2013 08:15

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 10airD.i
 Lab File ID: 20624.d
 Lab Smp Id: 10236207016
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: DR1
 Method File: \\192.168.10.12\chem\10airD.i\072513.b\TO15_205-13.m
 Misc Info: 17870

Calibration Date: 25-JUL-2013
 Calibration Time: 13:08

Level: LOW
 Sample Type: AIR

Test Mode:

Use Initial Calibration Level 4.
 If Continuing Cal. use Initial Cal. Level 4

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	579775	347865	811685	715360	23.39
55 Chlorobenzene - d	221404	132842	309966	256931	16.05

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
38 1,4-Difluorobenze	6.09	5.76	6.42	6.09	-0.05
55 Chlorobenzene - d	9.69	9.36	10.02	9.68	-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\072513.b\20624.D

Date : 26-JUL-2013 00:30

Client ID:

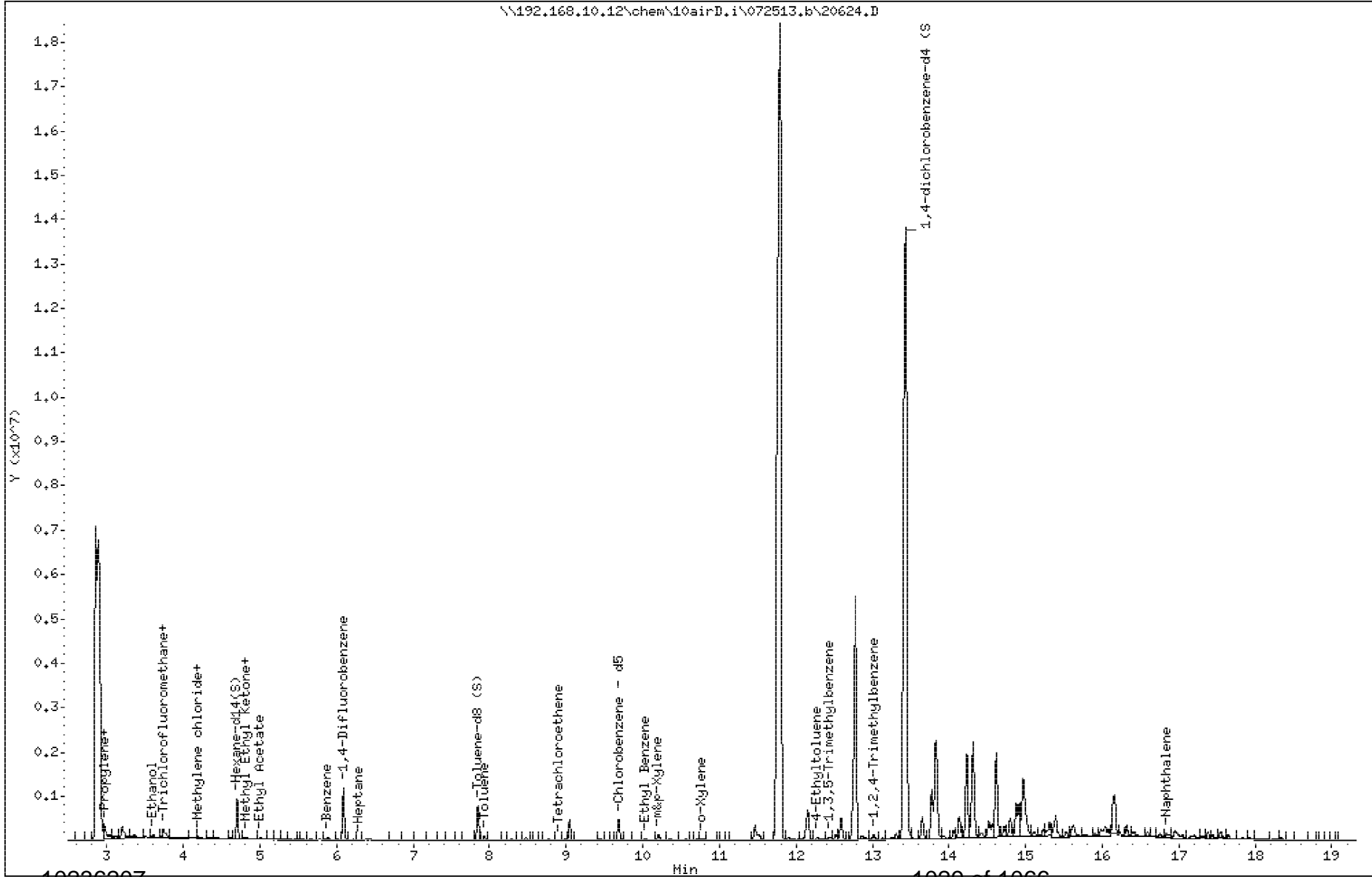
Instrument: 10airD.i

Sample Info:

Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20624.D

Date : 26-JUL-2013 00:30

Client ID:

Instrument: 10airD.i

Sample Info:

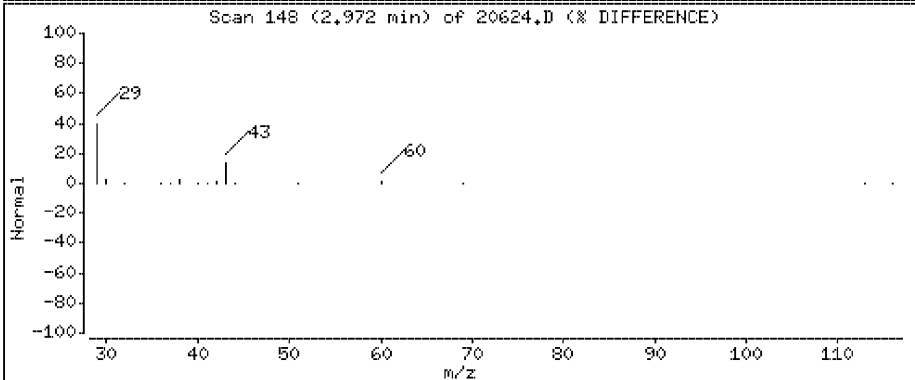
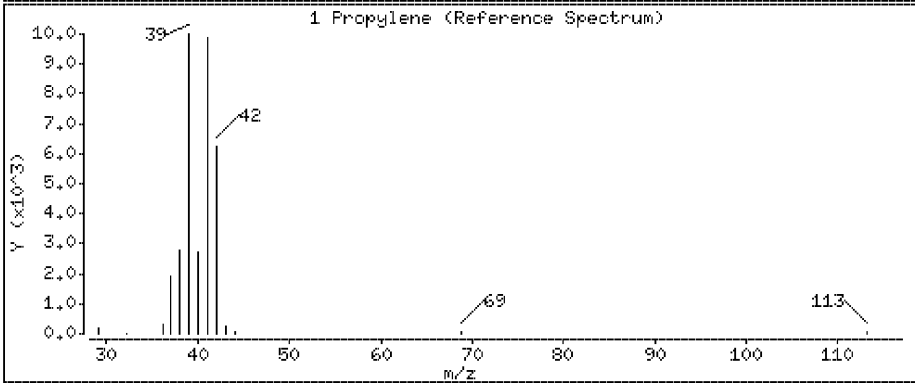
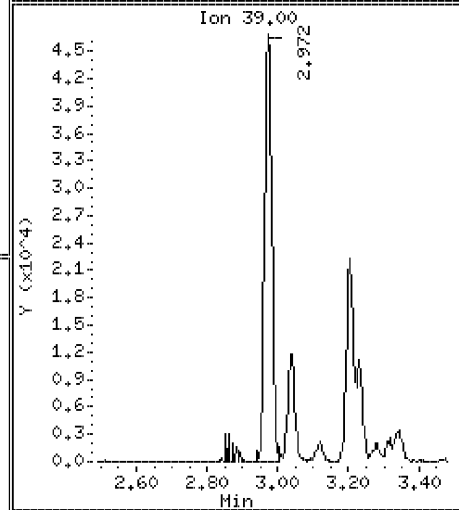
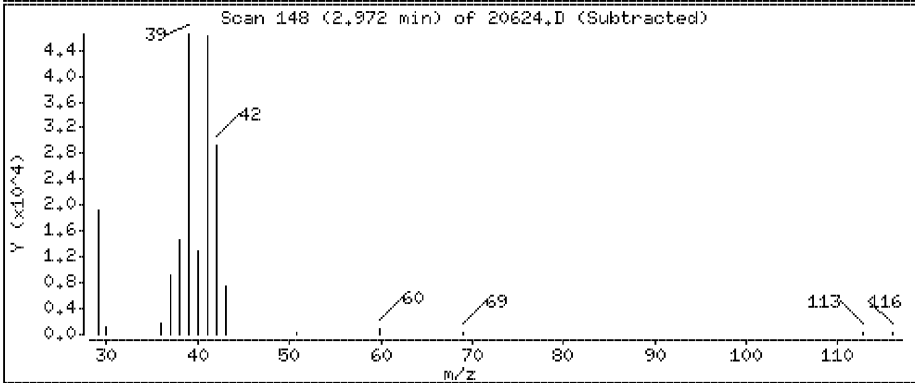
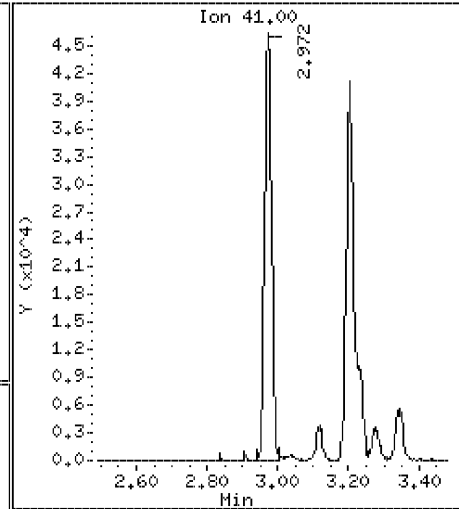
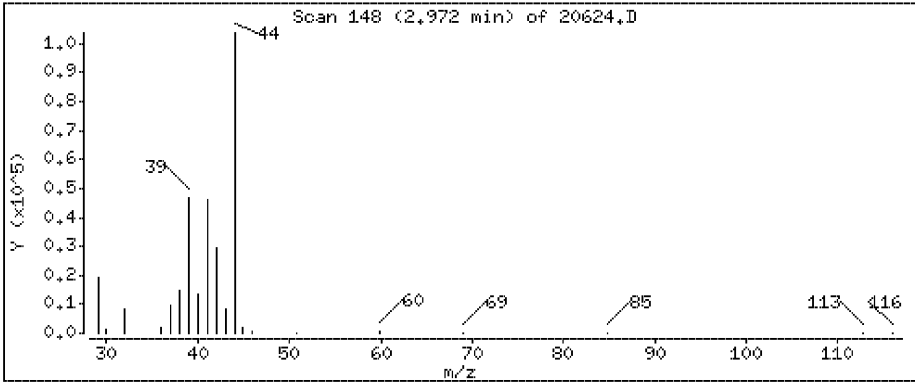
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

1 Propylene

Concentration: 10,2 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20624.D

Date : 26-JUL-2013 00:30

Client ID:

Instrument: 10airD.i

Sample Info:

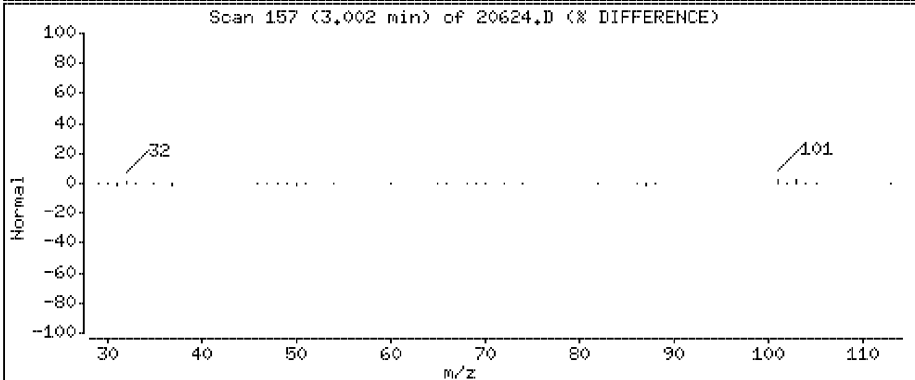
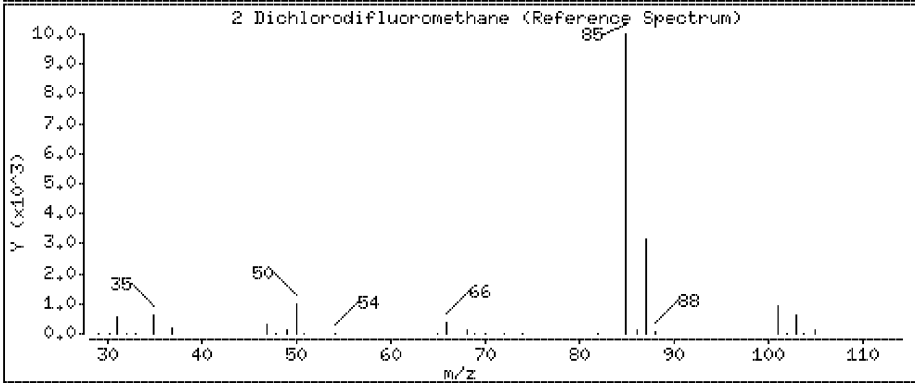
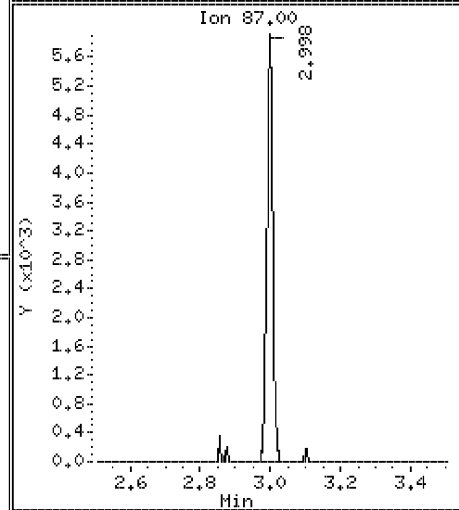
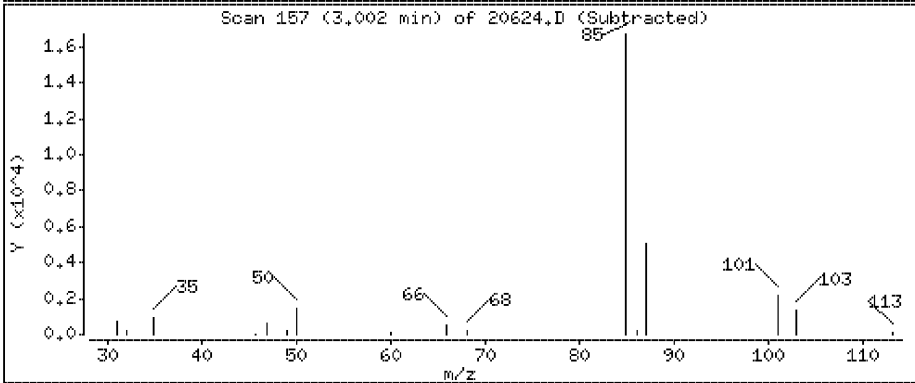
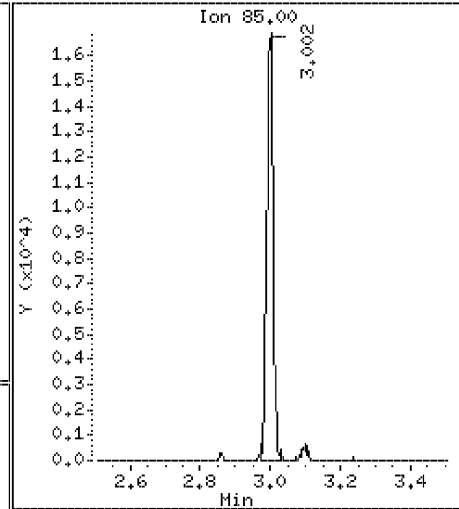
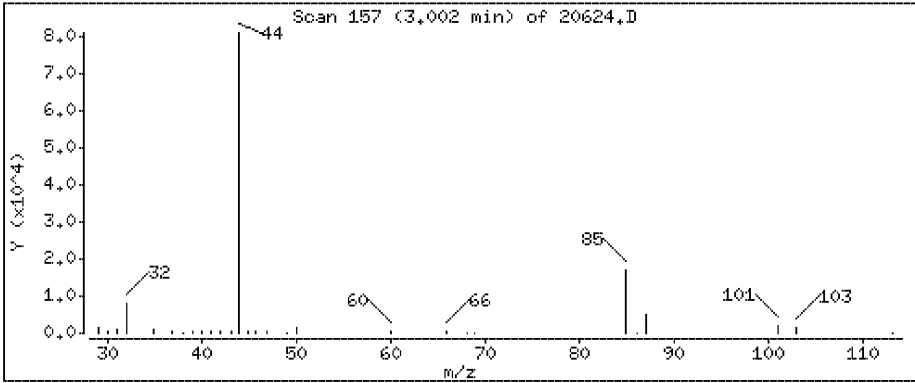
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

2 Dichlorodifluoromethane

Concentration: 0.370 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20624.D

Date : 26-JUL-2013 00:30

Client ID:

Instrument: 10airD.i

Sample Info:

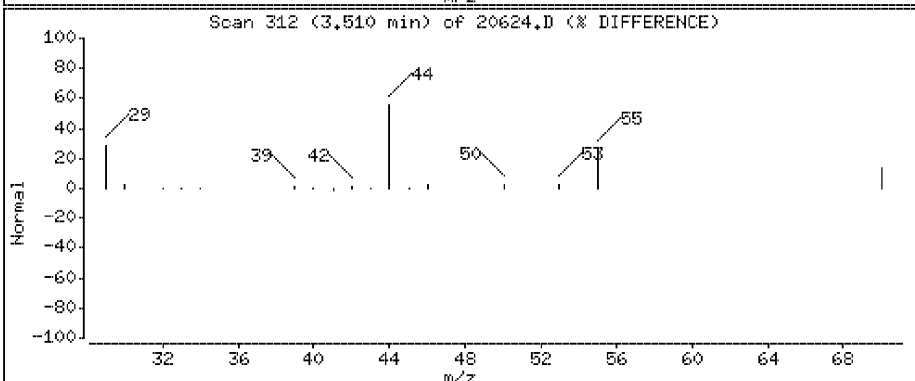
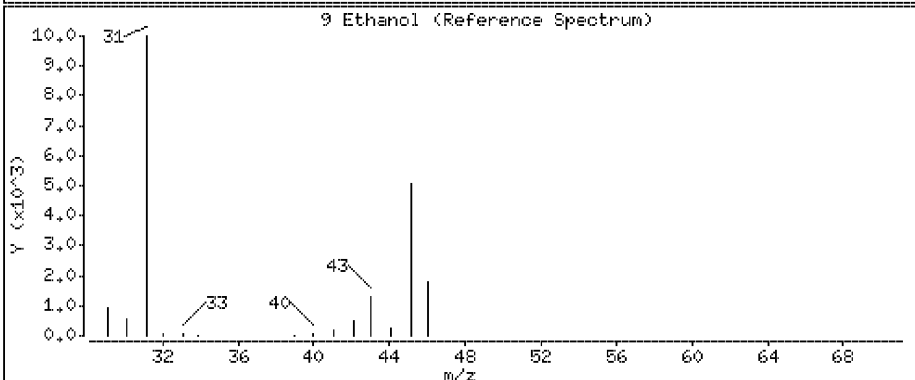
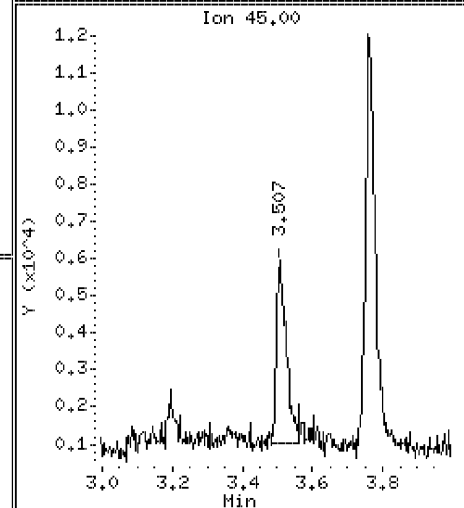
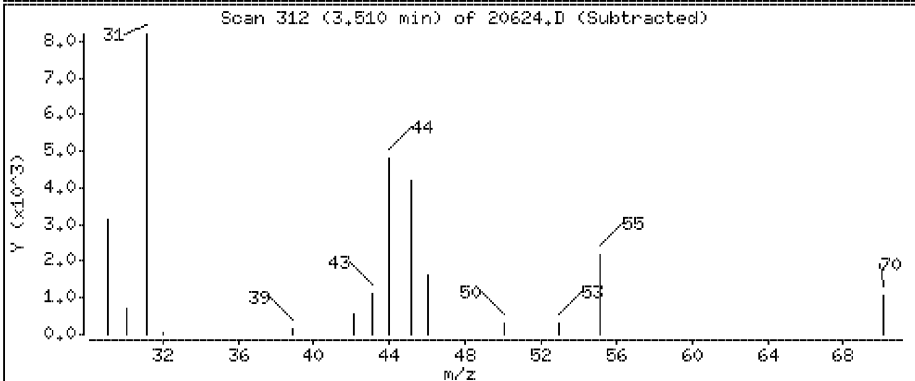
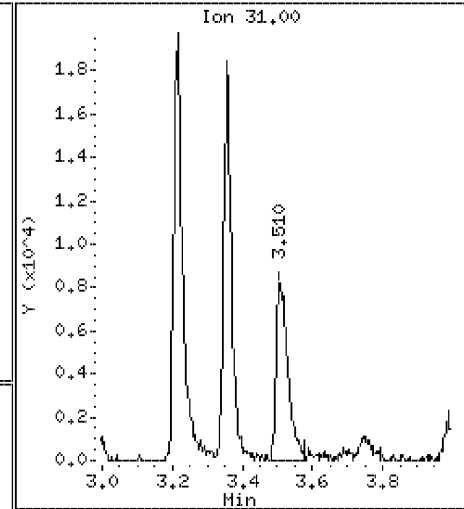
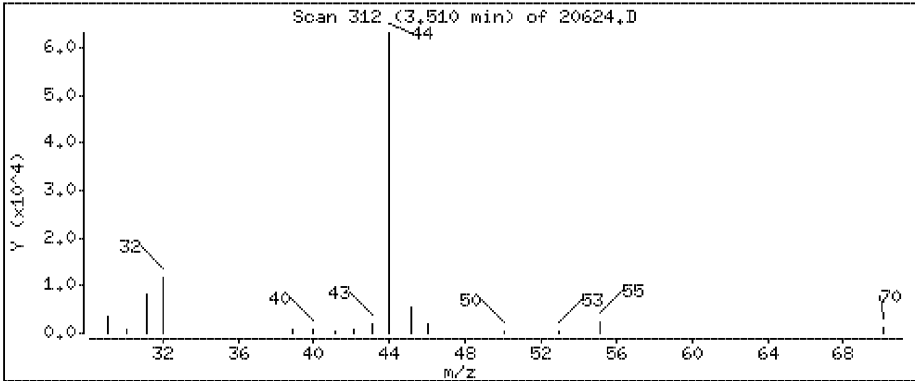
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

9 Ethanol

Concentration: 2.77 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20624.D

Date : 26-JUL-2013 00:30

Client ID:

Instrument: 10airD.i

Sample Info:

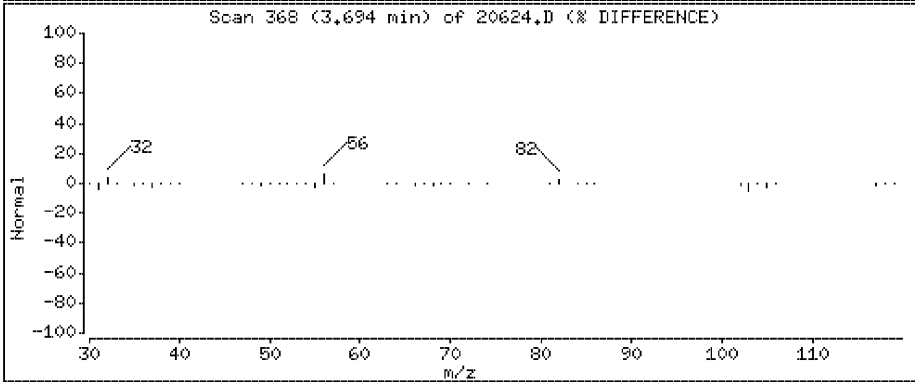
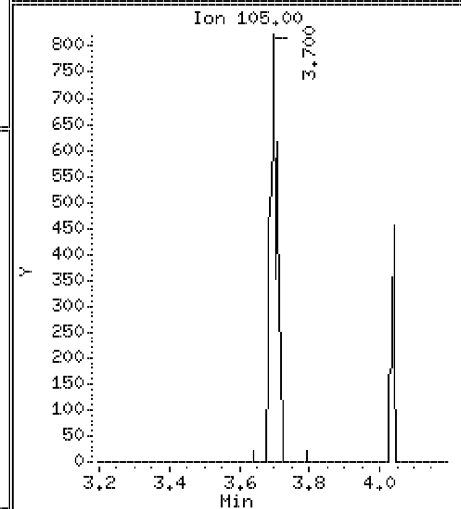
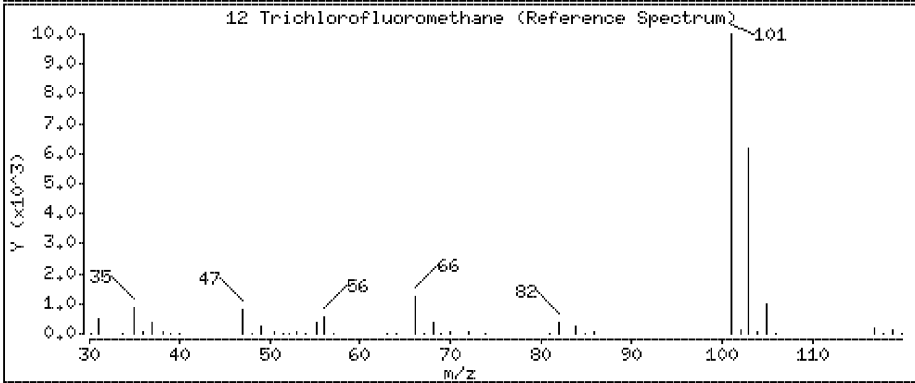
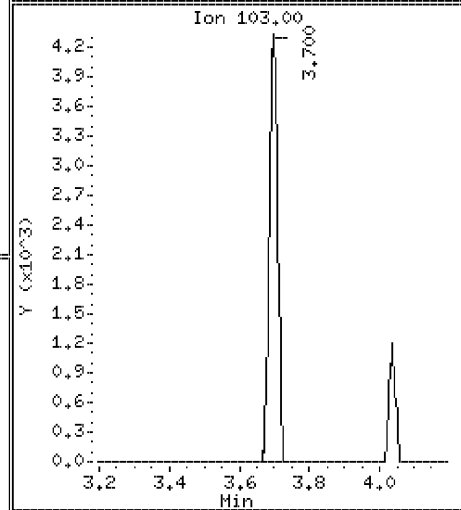
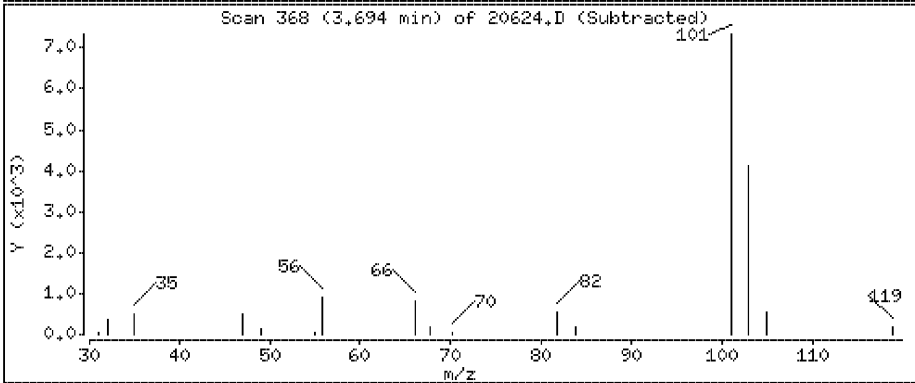
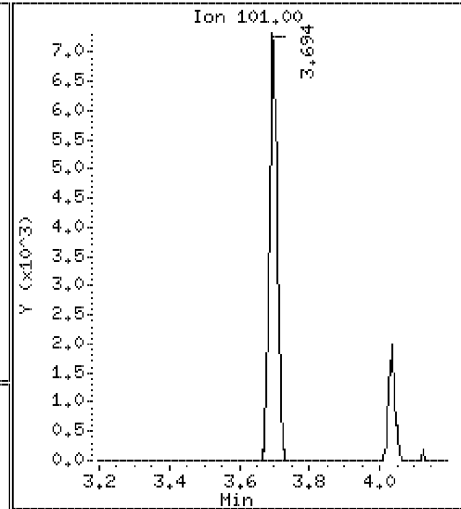
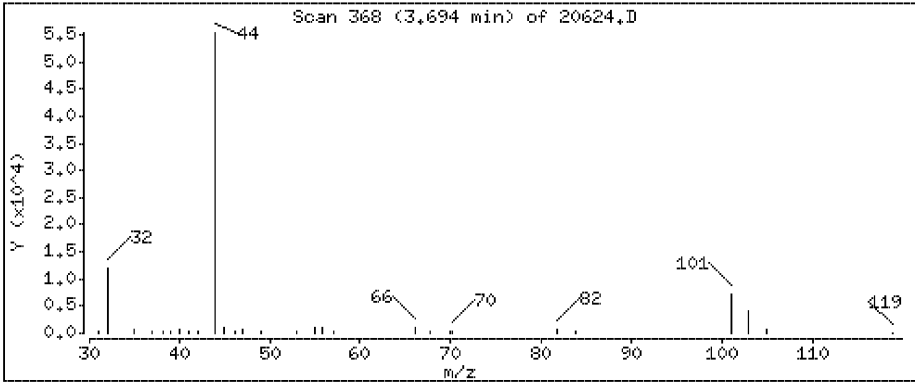
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

12 Trichlorofluoromethane

Concentration: 0.181 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20624.D

Date : 26-JUL-2013 00:30

Client ID:

Instrument: 10airD.i

Sample Info:

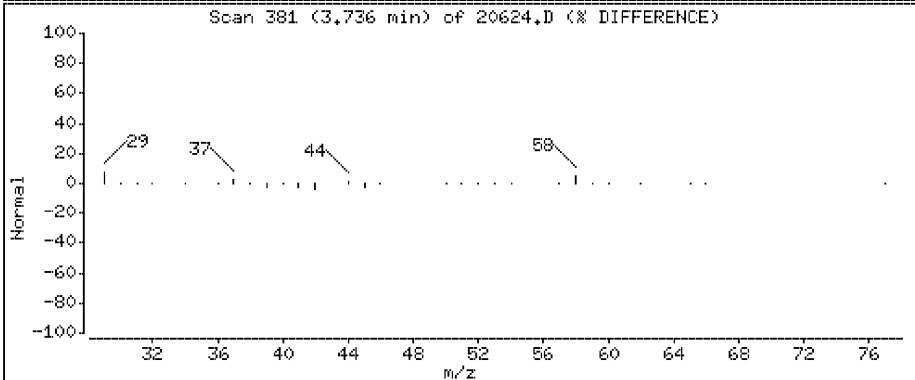
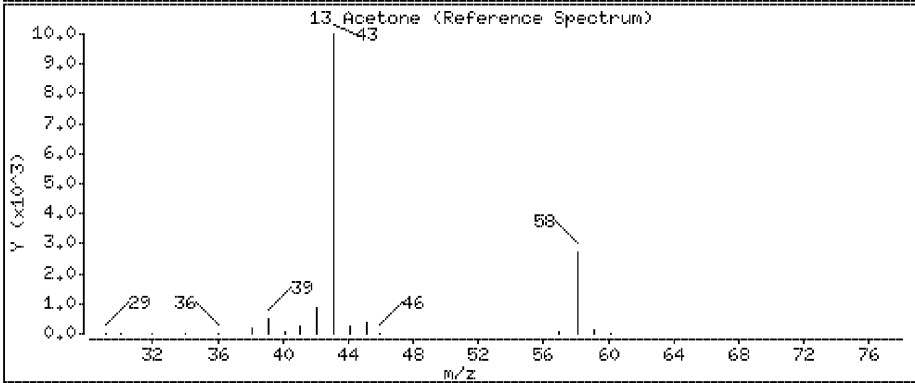
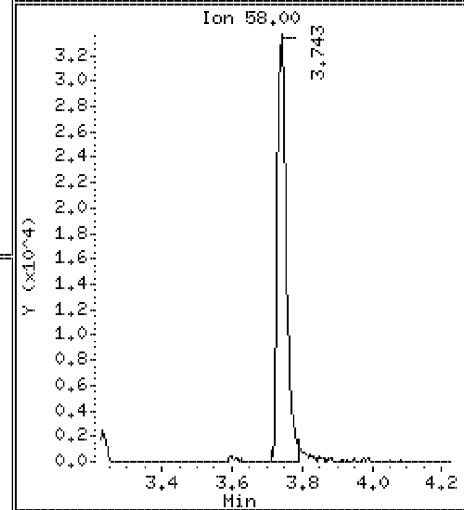
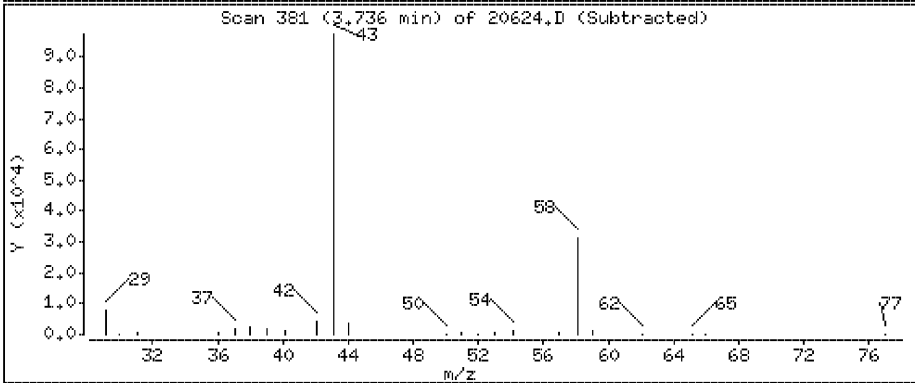
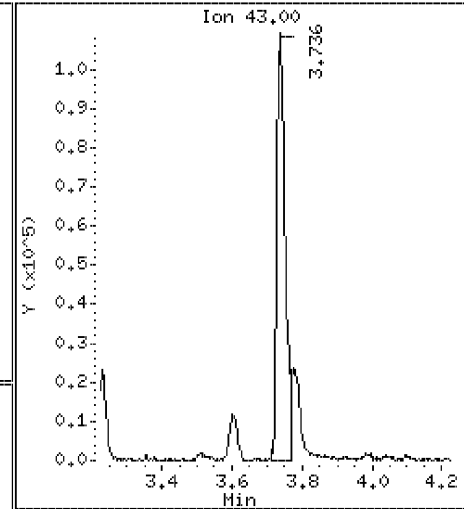
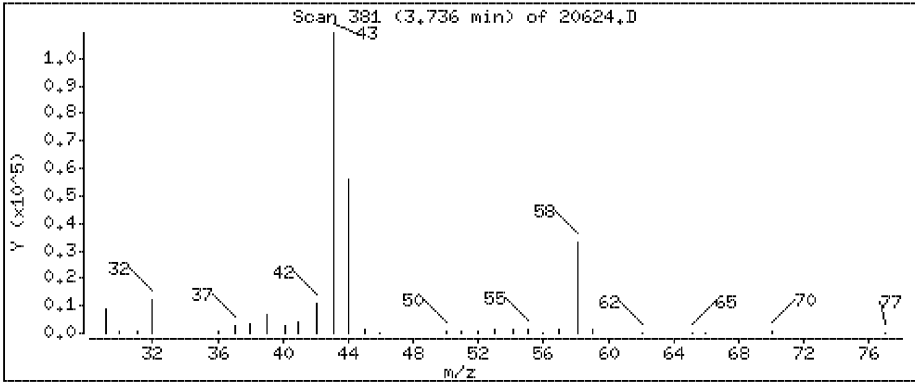
Operator: DR1

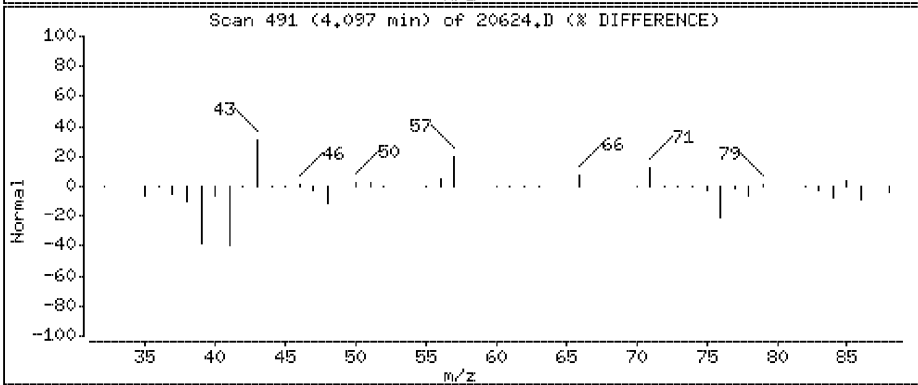
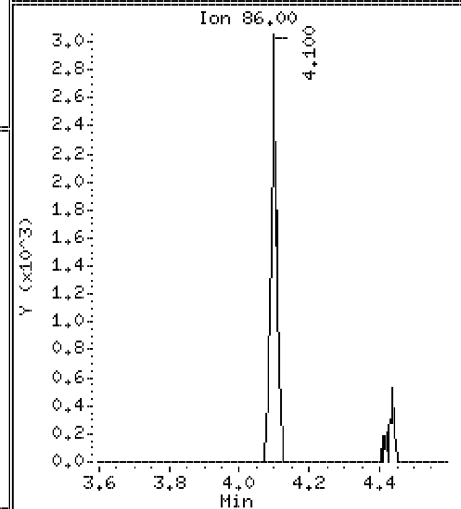
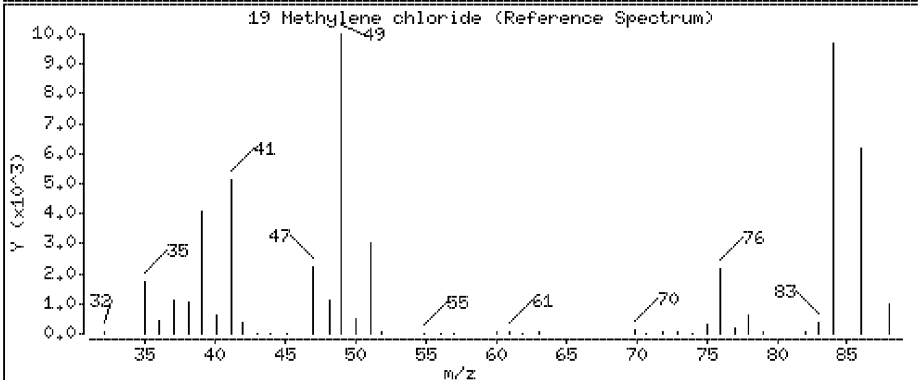
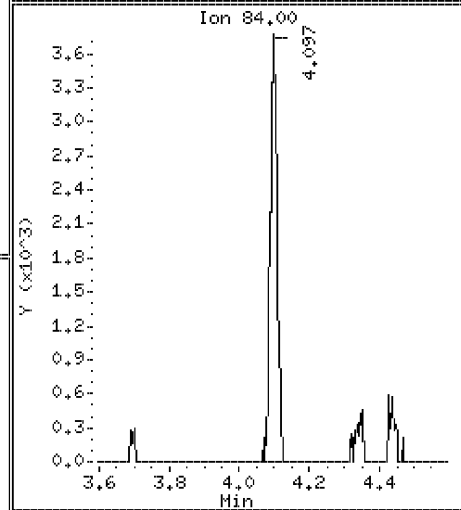
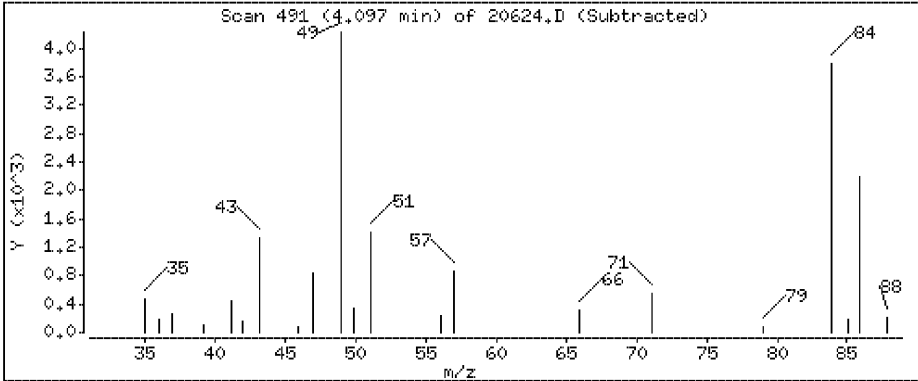
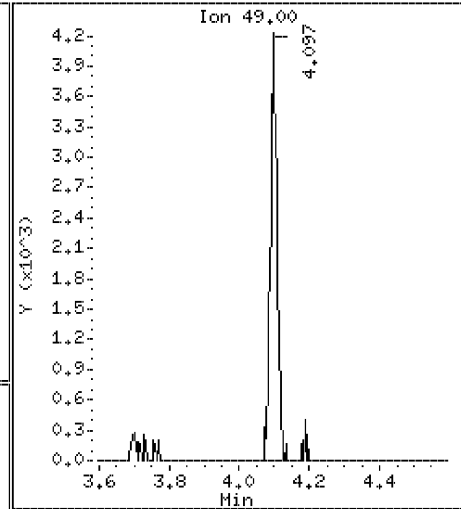
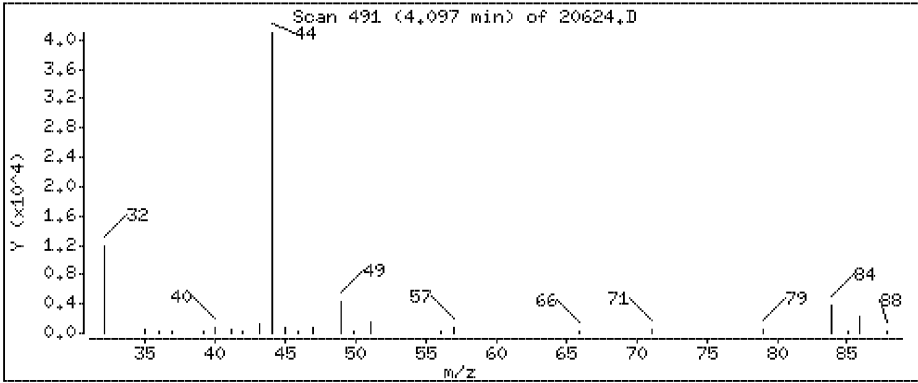
Column phase: J&W DB-5

Column diameter: 0.32

13 Acetone

Concentration: 5.70 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20624.D

Date : 26-JUL-2013 00:30

Client ID:

Instrument: 10airD.i

Sample Info:

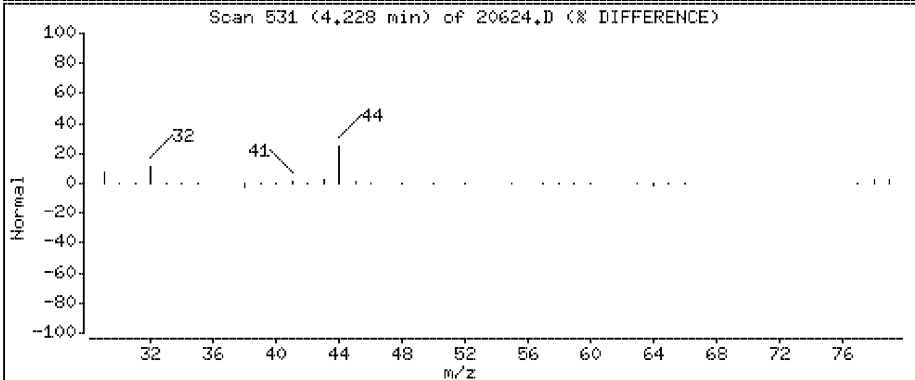
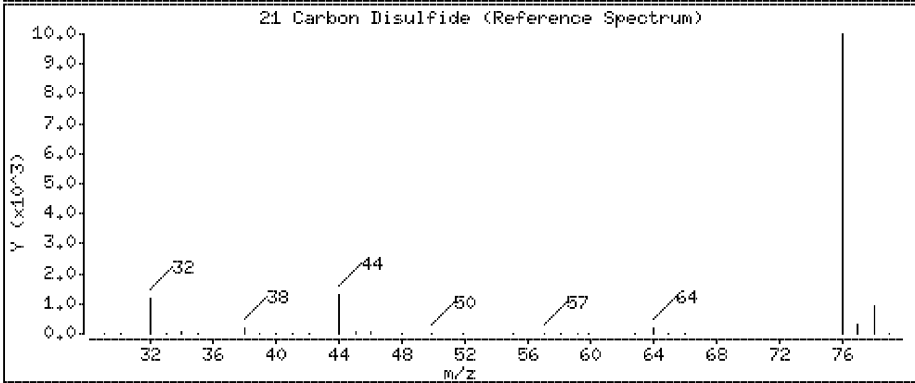
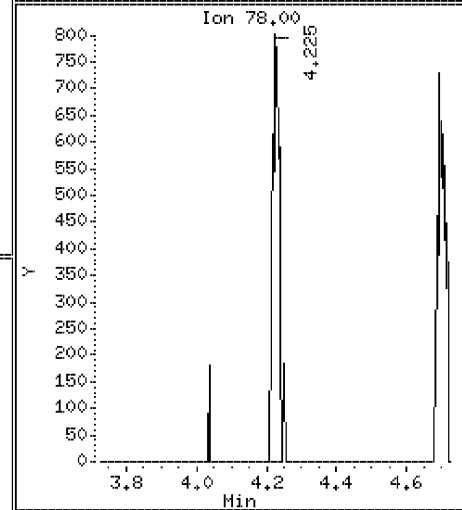
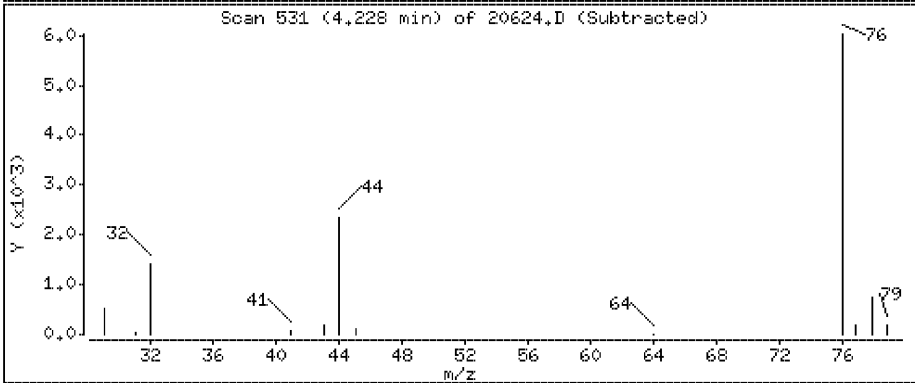
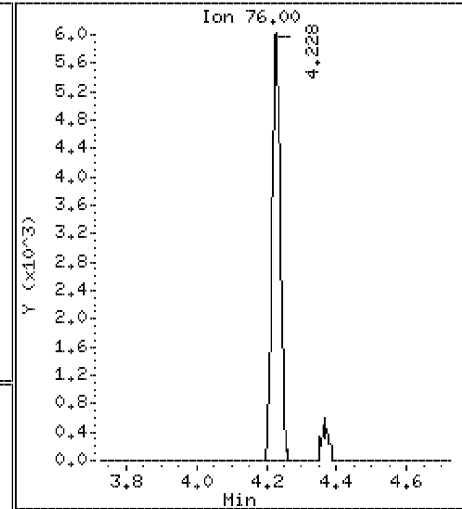
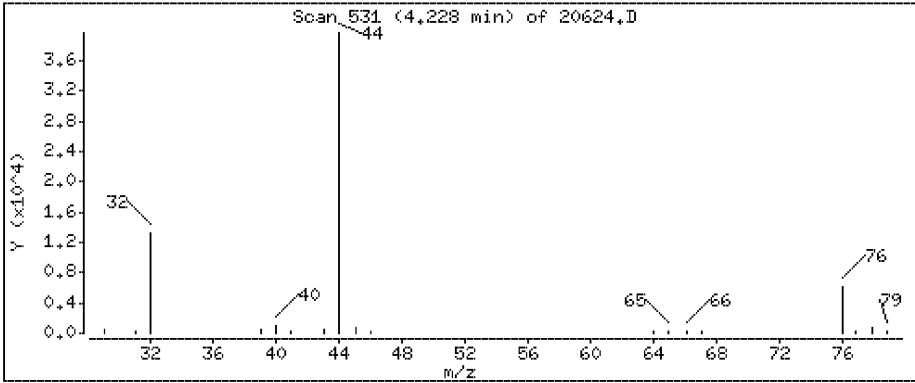
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

21 Carbon Disulfide

Concentration: 0.190 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20624.D

Date : 26-JUL-2013 00:30

Client ID:

Instrument: 10airD.i

Sample Info:

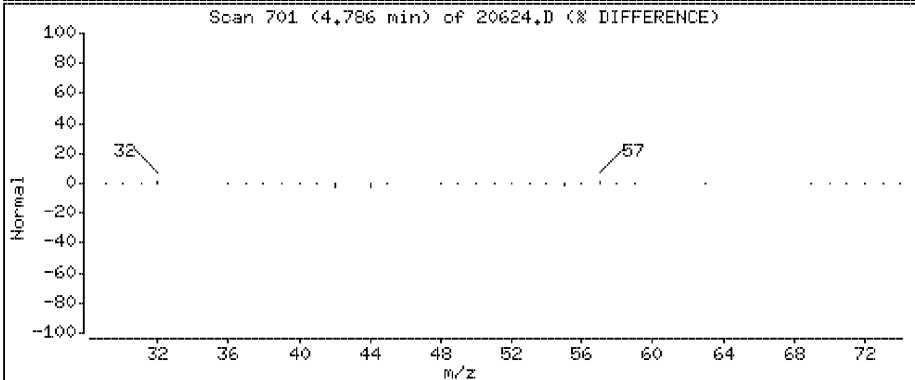
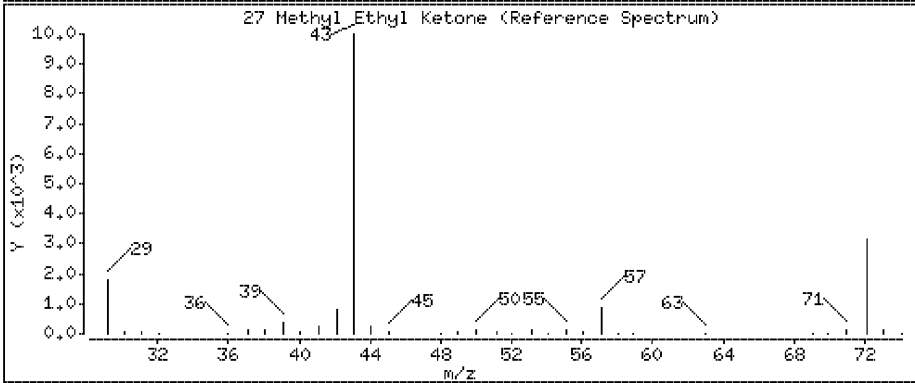
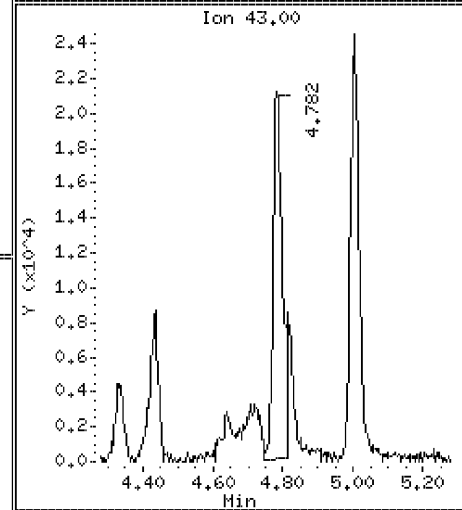
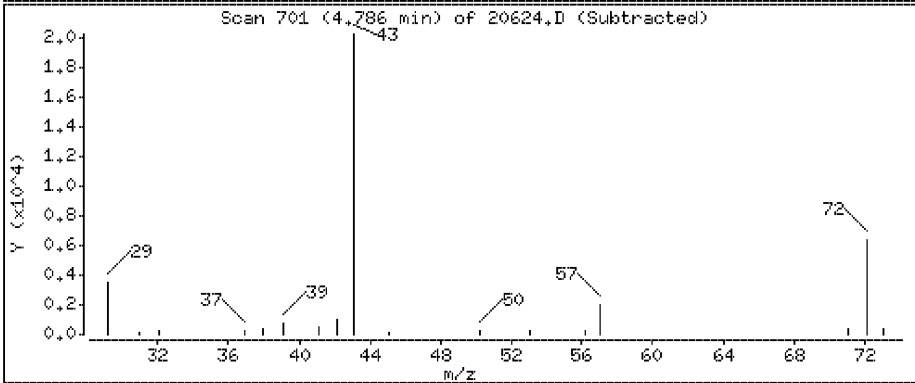
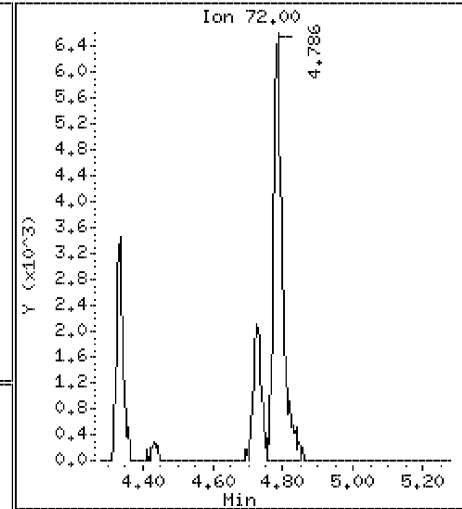
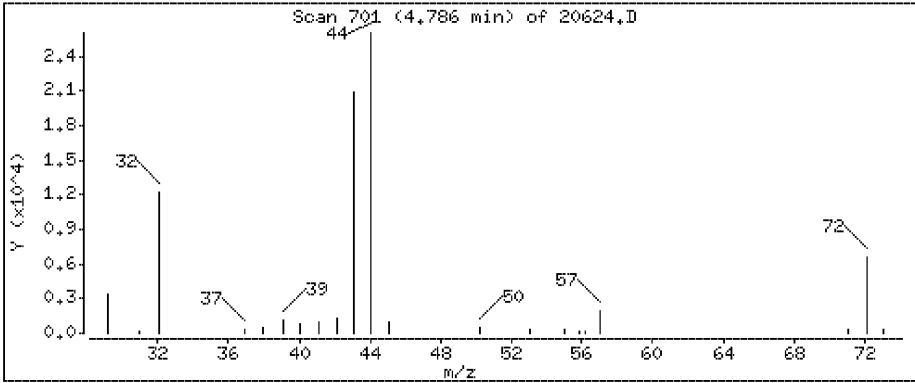
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

27 Methyl Ethyl Ketone

Concentration: 1.59 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20624.D

Date : 26-JUL-2013 00:30

Client ID:

Instrument: 10airD.i

Sample Info:

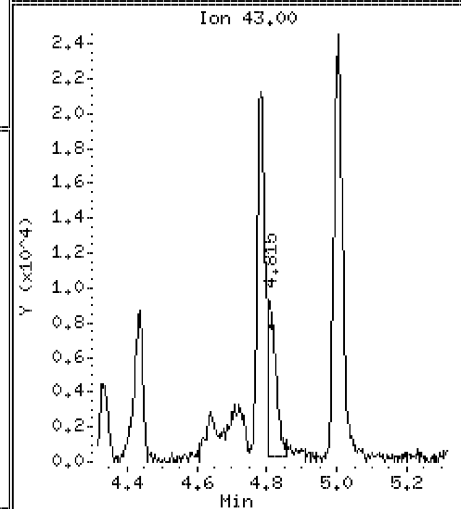
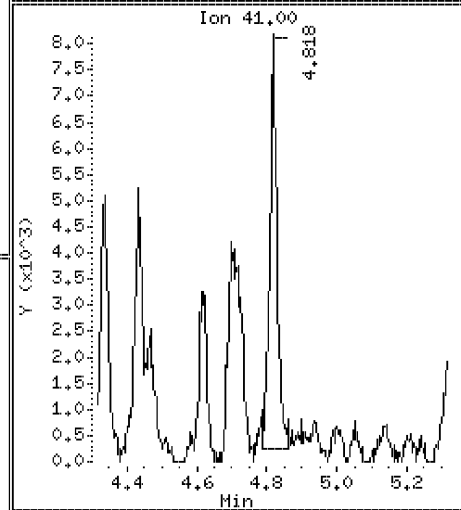
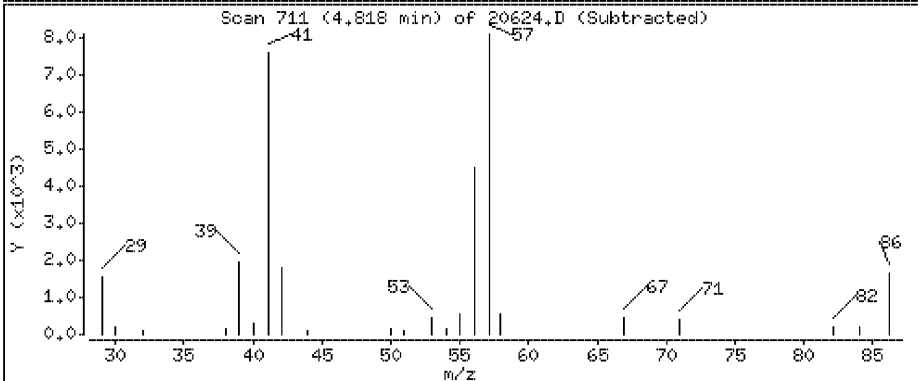
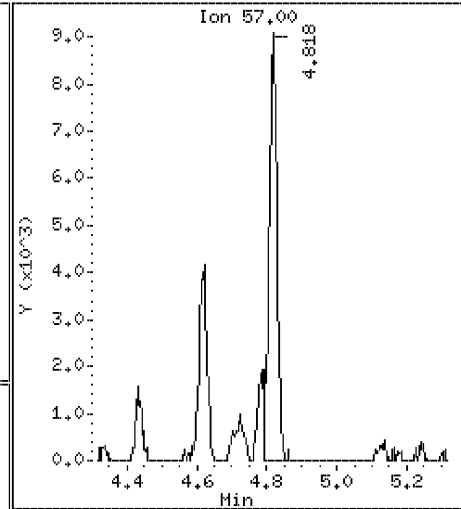
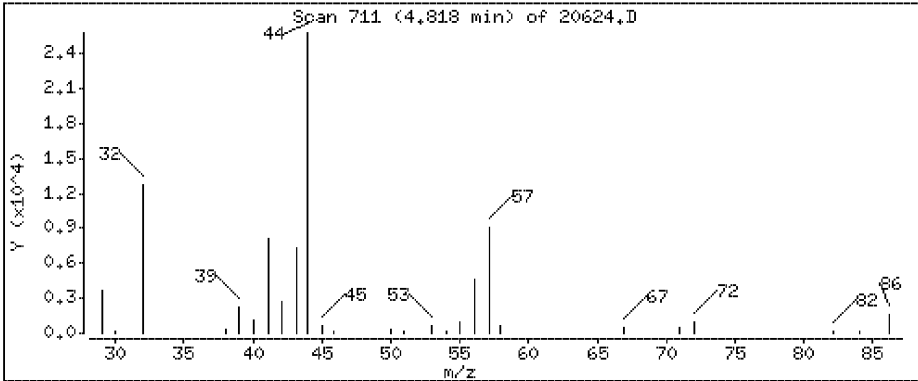
Operator: DR1

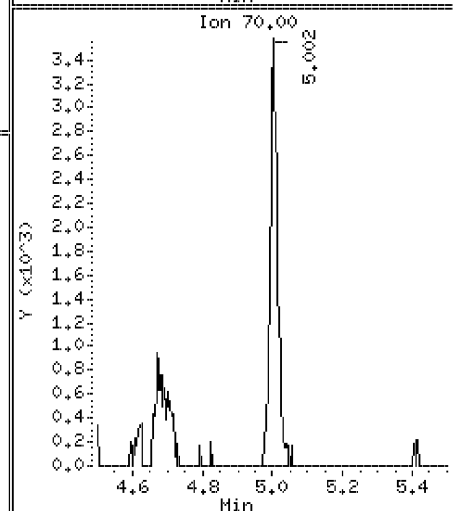
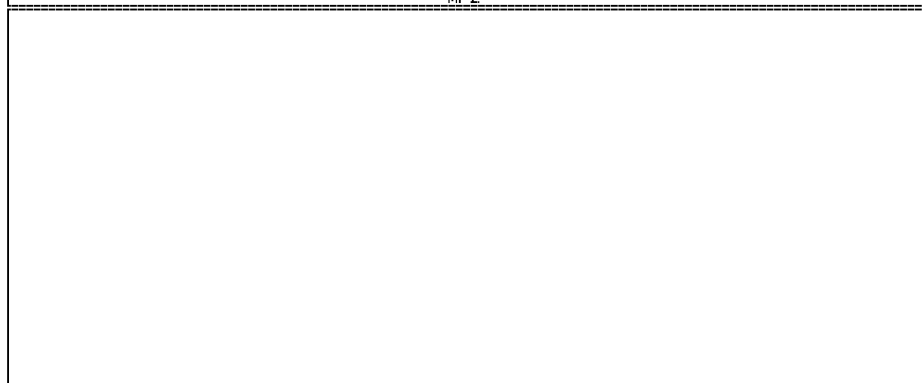
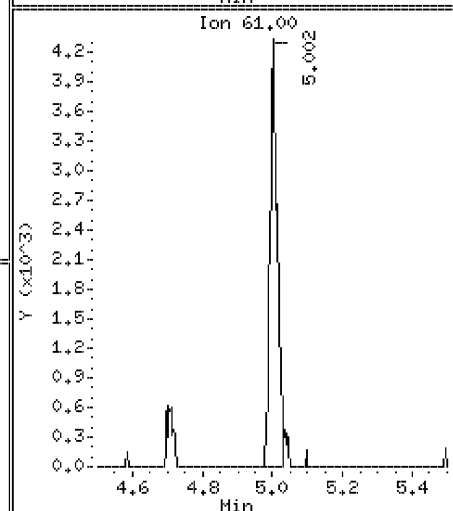
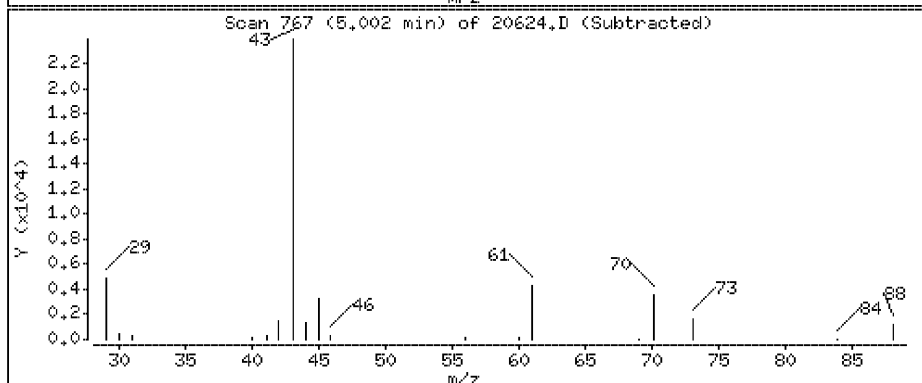
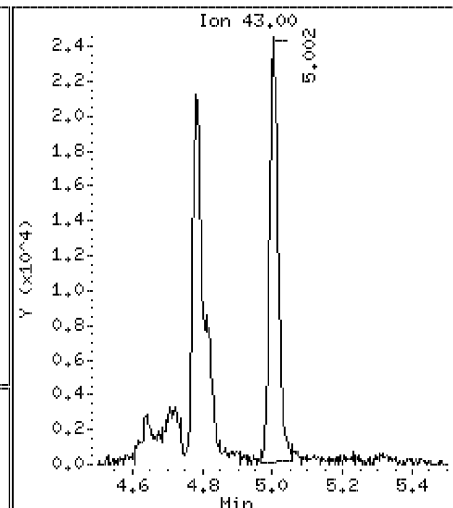
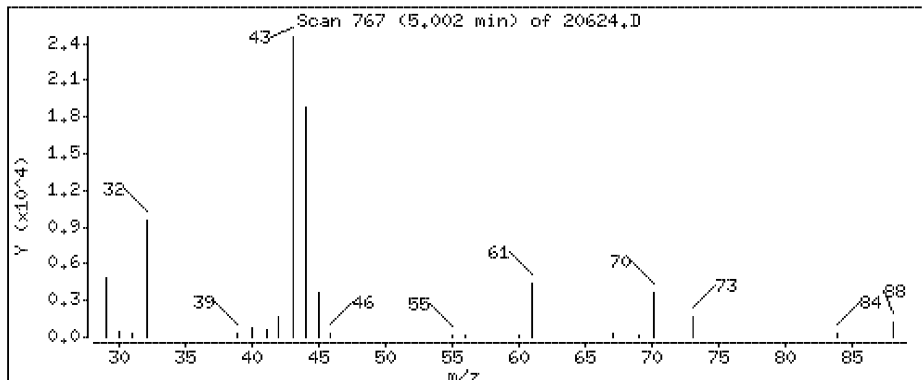
Column phase: J&W DB-5

Column diameter: 0.32

28 n-Hexane

Concentration: 0.652 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20624.D

Date : 26-JUL-2013 00:30

Client ID:

Instrument: 10airD.i

Sample Info:

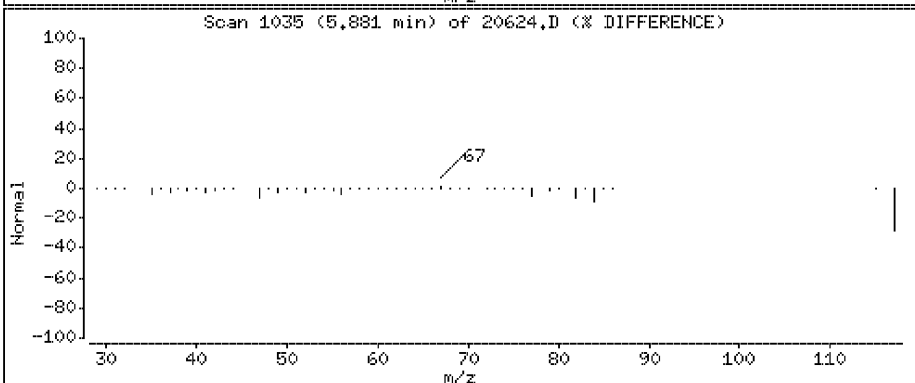
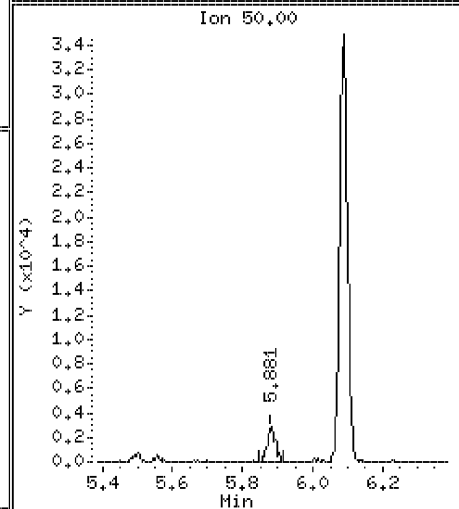
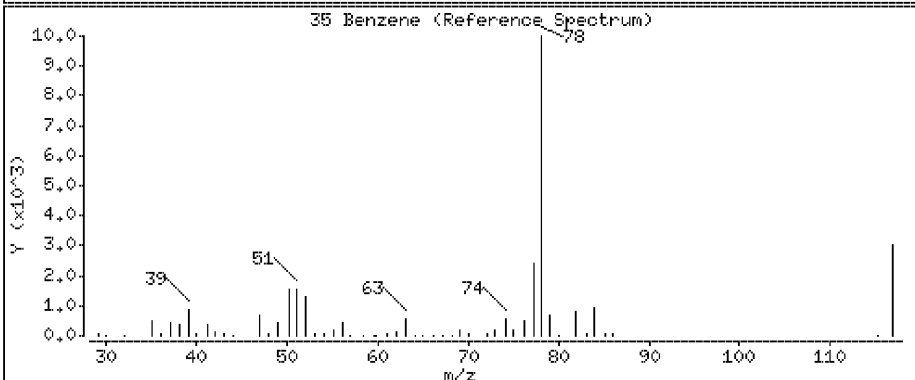
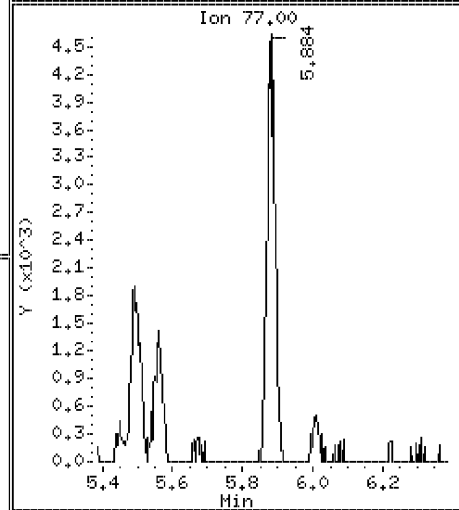
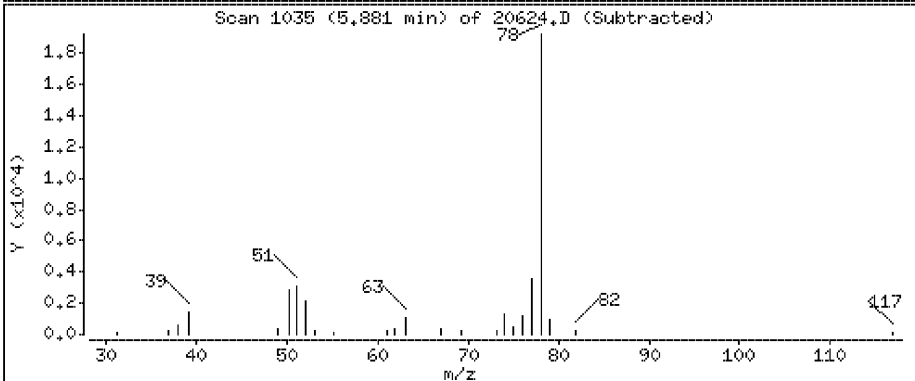
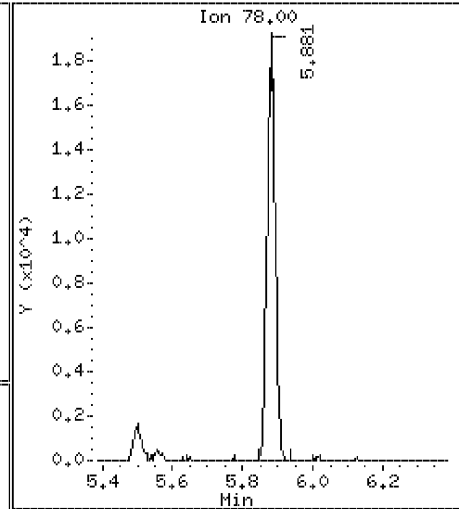
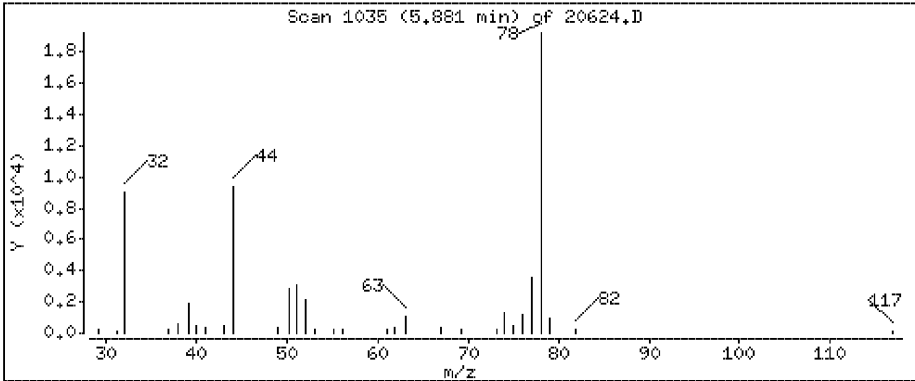
Operator: DR1

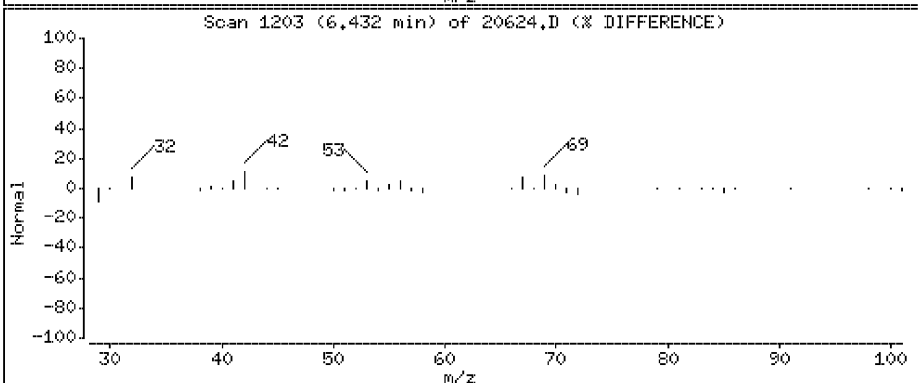
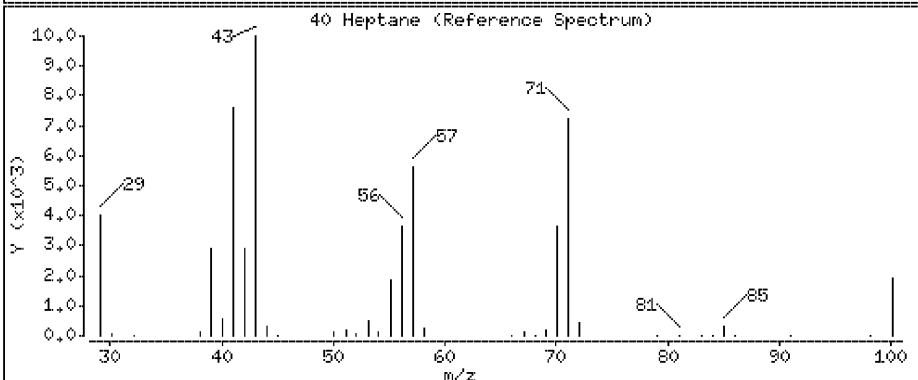
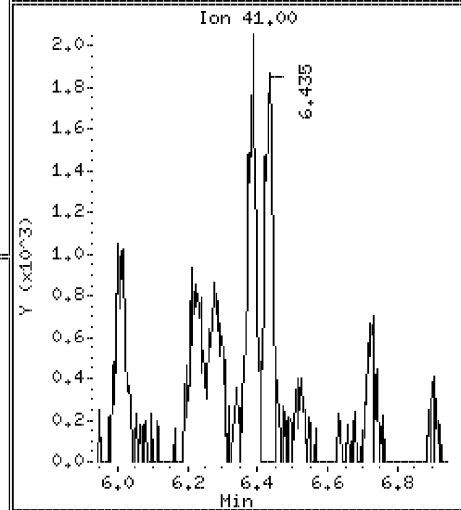
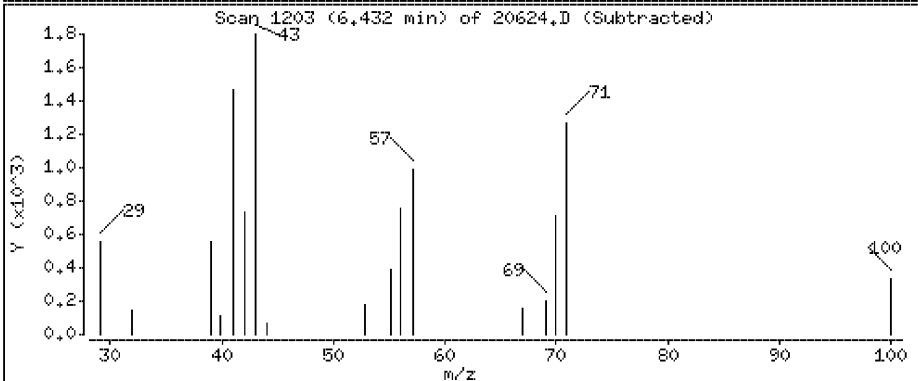
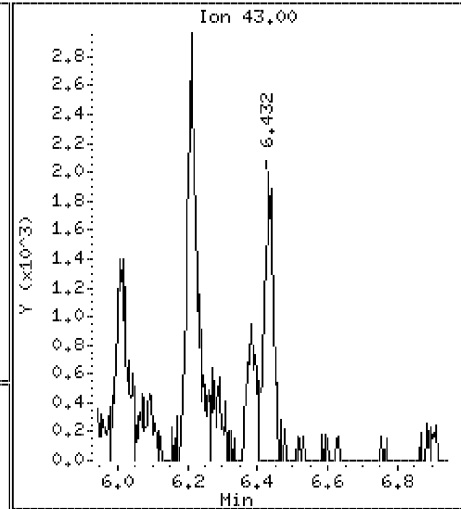
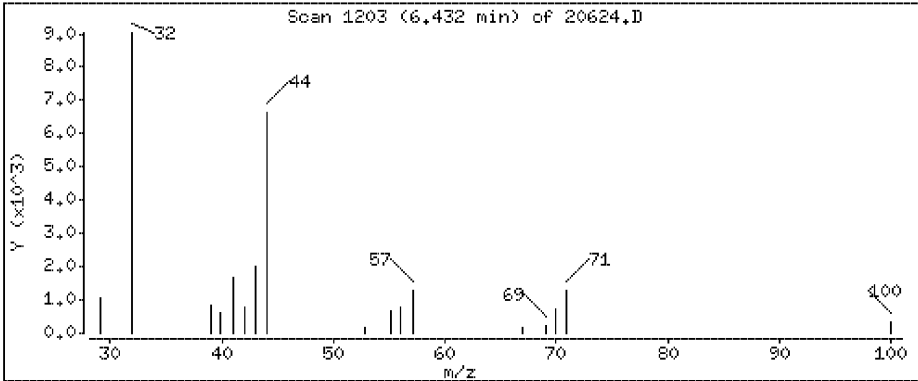
Column phase: J&W DB-5

Column diameter: 0.32

35 Benzene

Concentration: 1.26 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20624.D

Date : 26-JUL-2013 00:30

Client ID:

Instrument: 10airD.i

Sample Info:

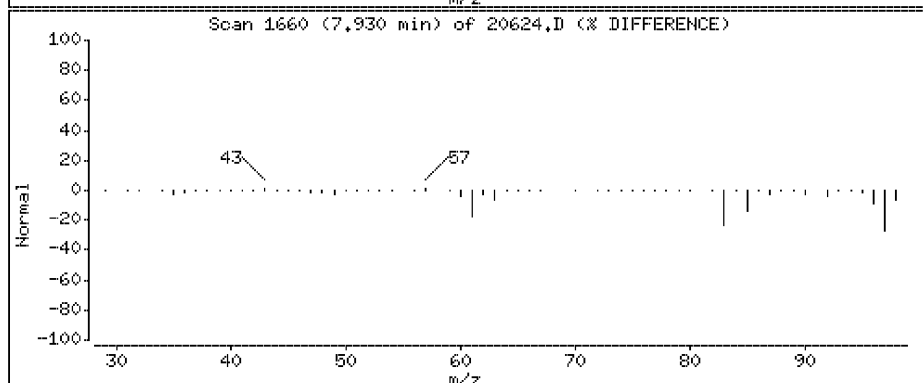
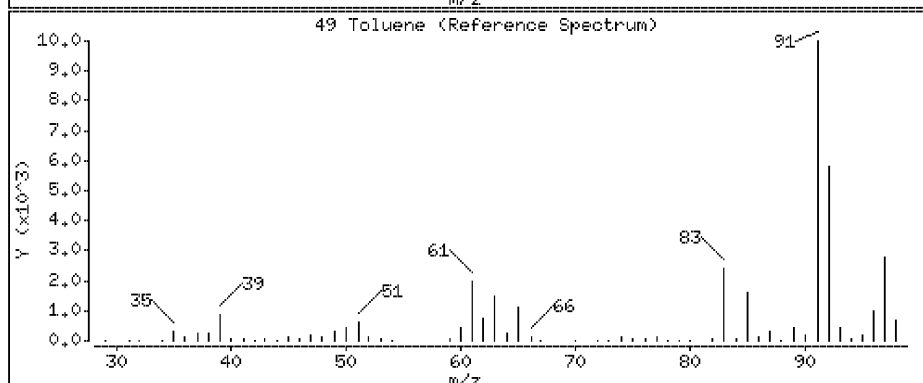
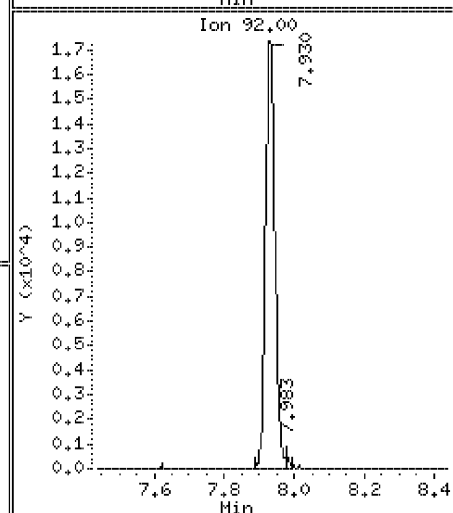
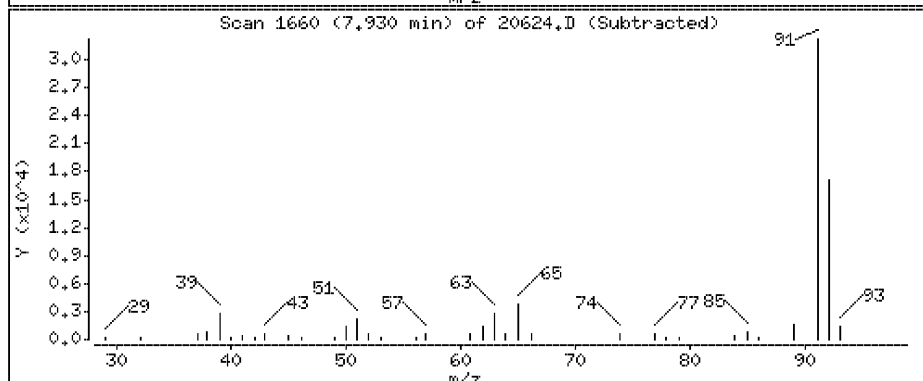
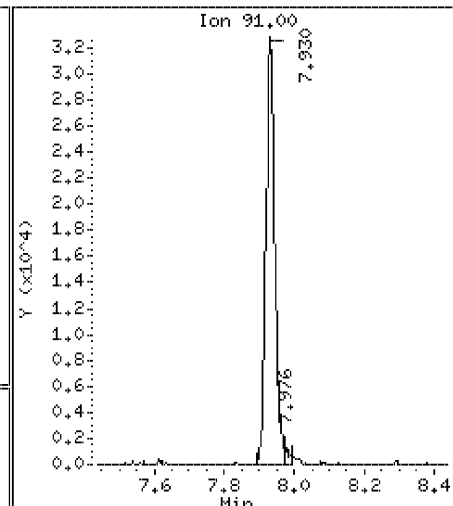
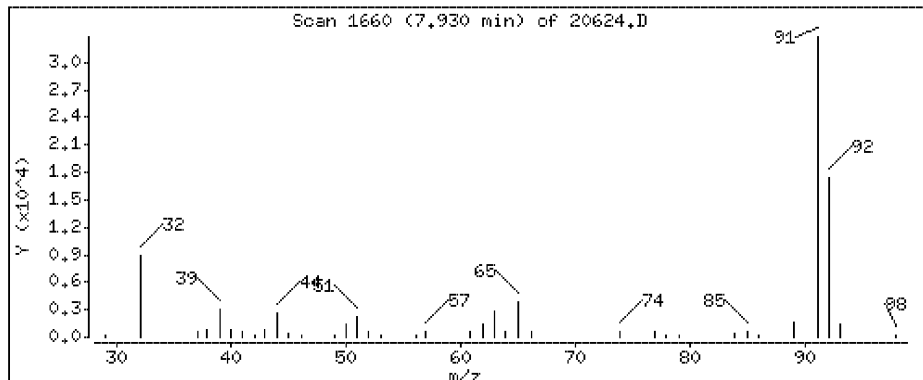
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

49 Toluene

Concentration: 1.61 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20624.D

Date : 26-JUL-2013 00:30

Client ID:

Instrument: 10airD.i

Sample Info:

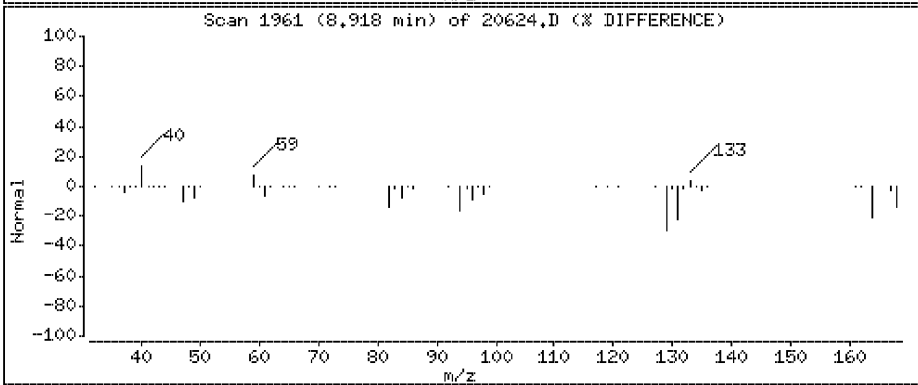
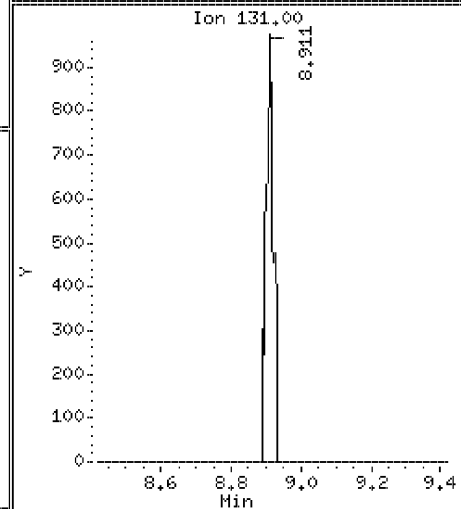
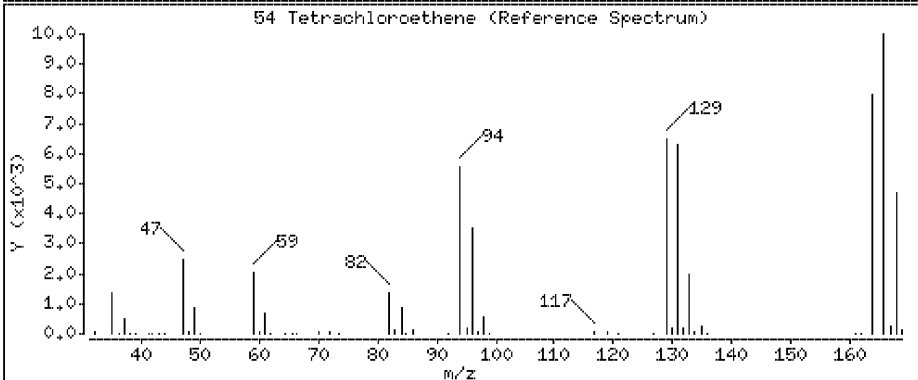
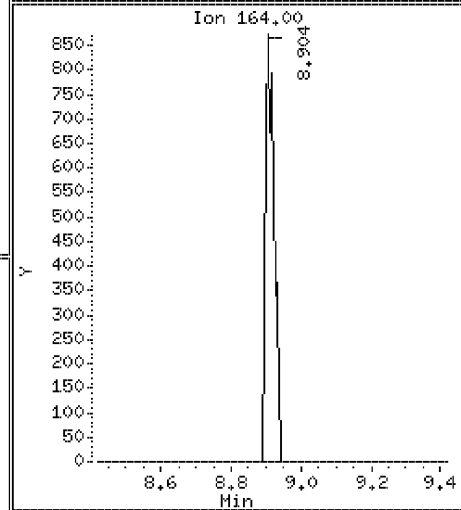
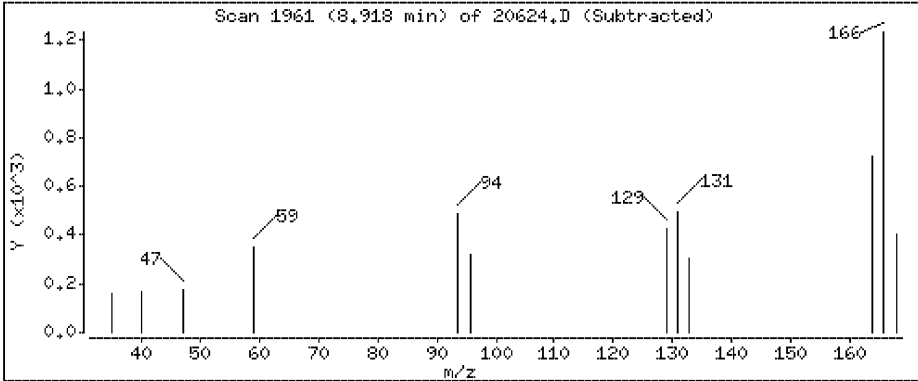
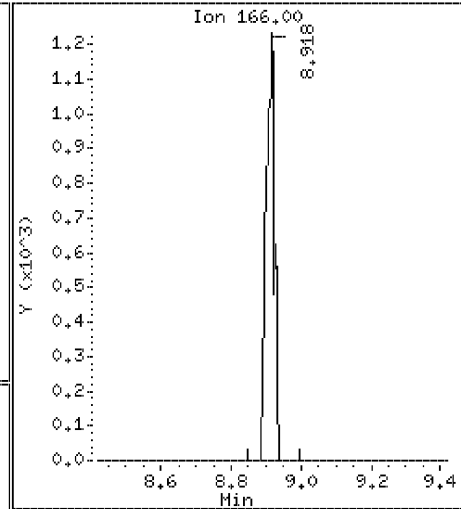
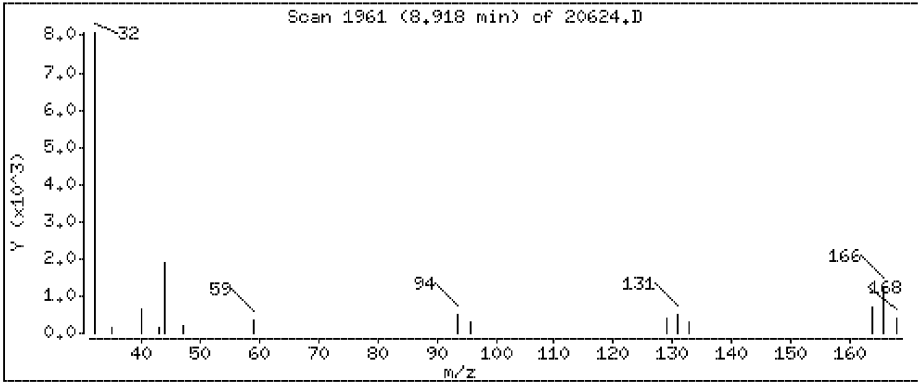
Operator: DR1

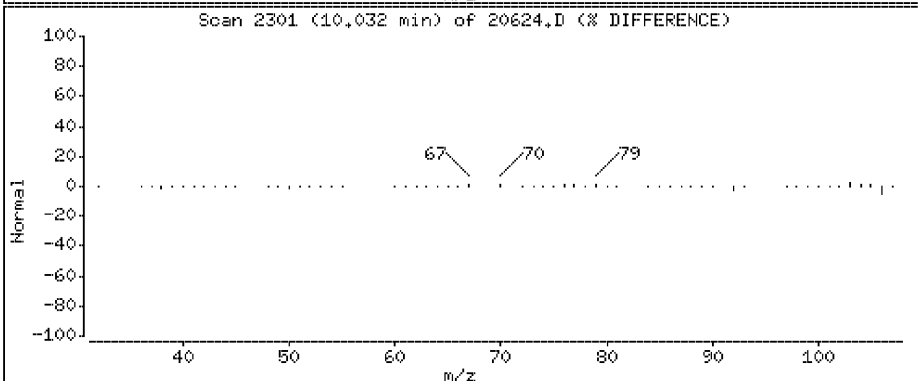
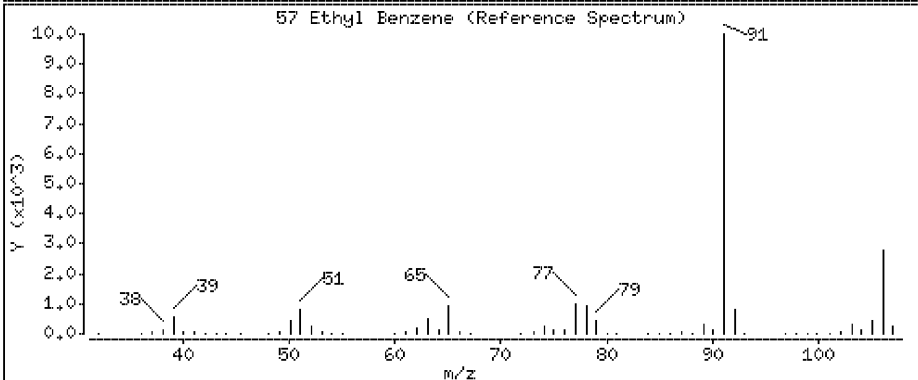
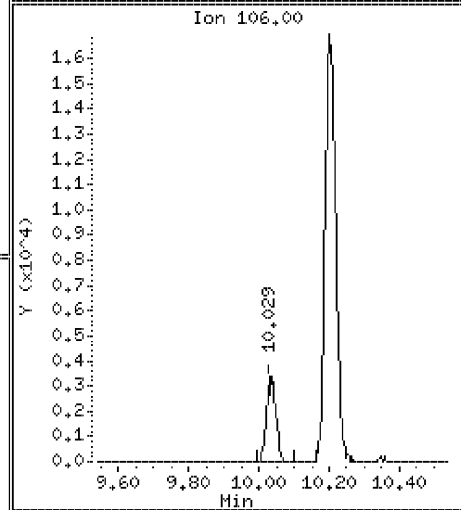
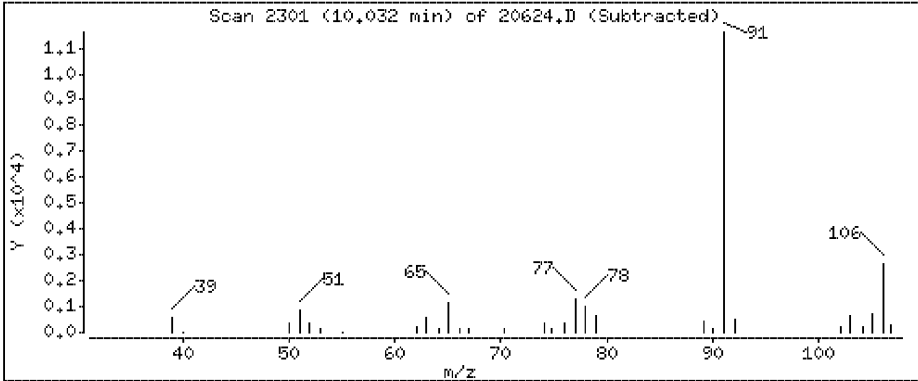
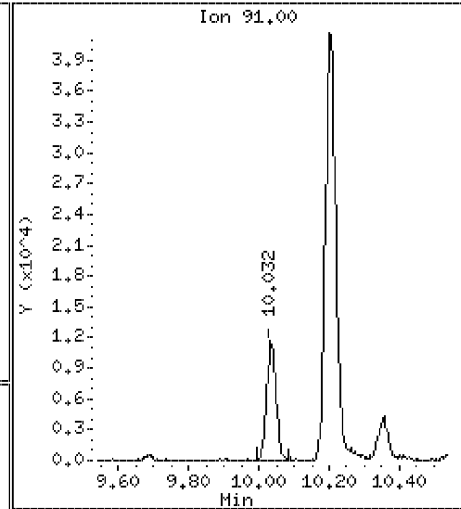
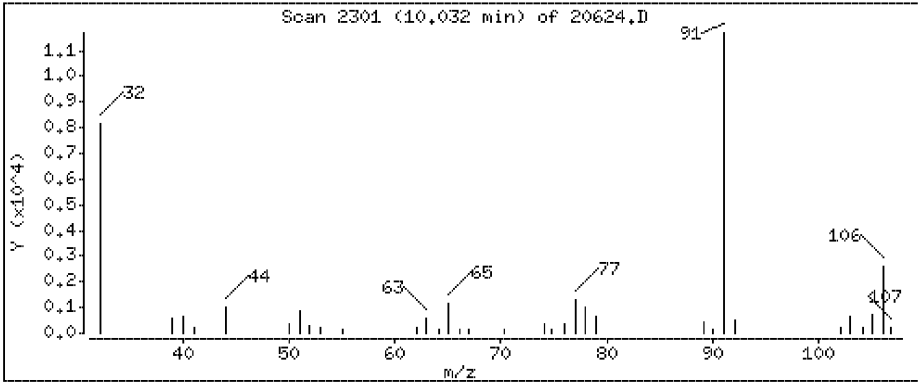
Column phase: J&W DB-5

Column diameter: 0.32

54 Tetrachloroethene

Concentration: 0.640 ppbv





Data File: \\192.168.10.12\chem\10airD,1\072513,b\20624.D

Date : 26-JUL-2013 00:30

Client ID:

Instrument: 10airD.i

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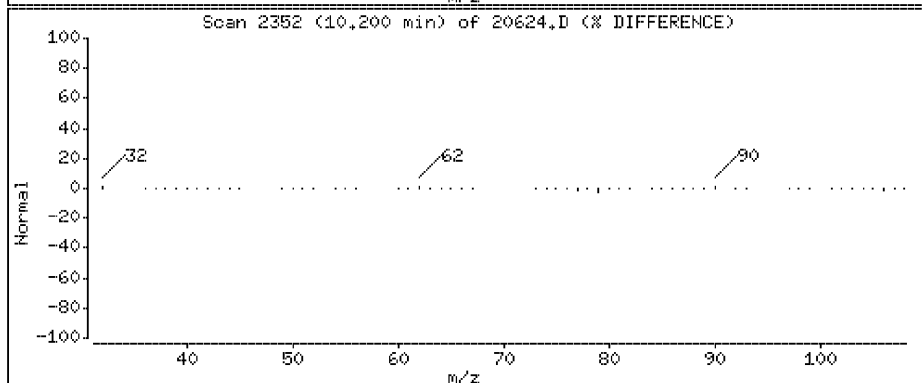
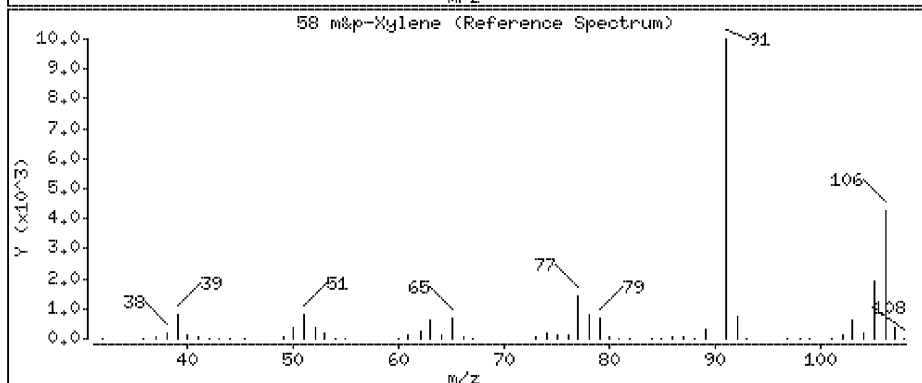
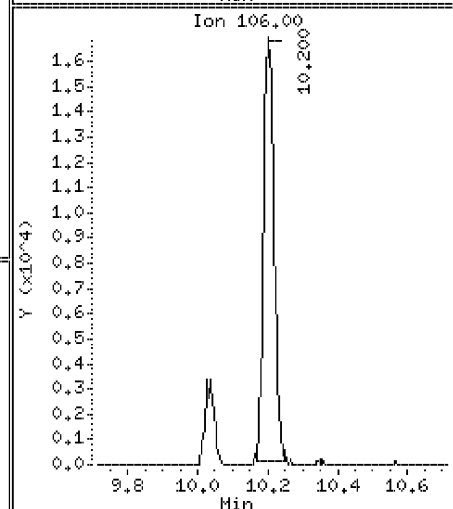
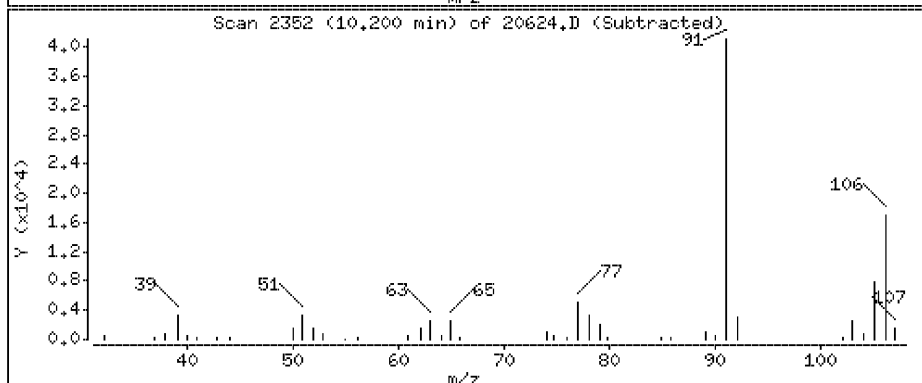
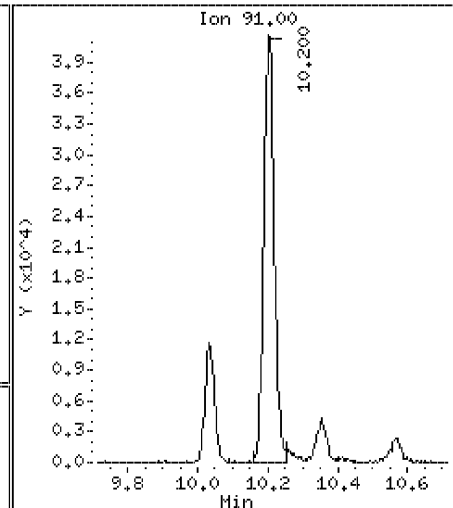
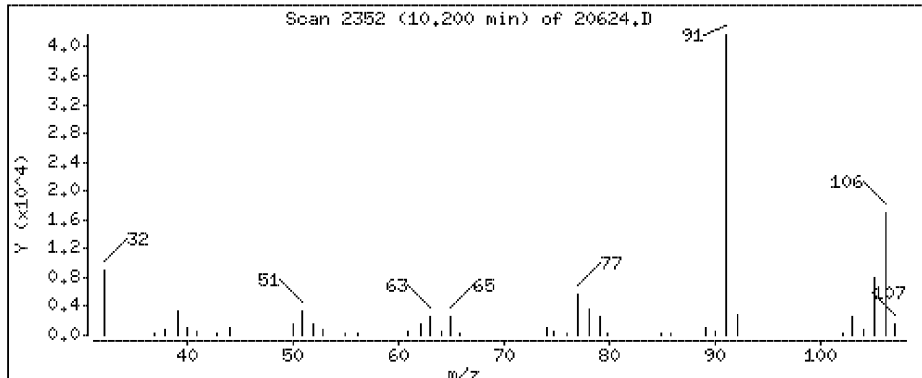
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

58 m&p-Xylene

Concentration: 2.02 ppbv



Data File: \\192.168.10.12\chem\10airD,1\072513,b\20624.D

Date : 26-JUL-2013 00:30

Client ID:

Instrument: 10airD.i

Sample Info:

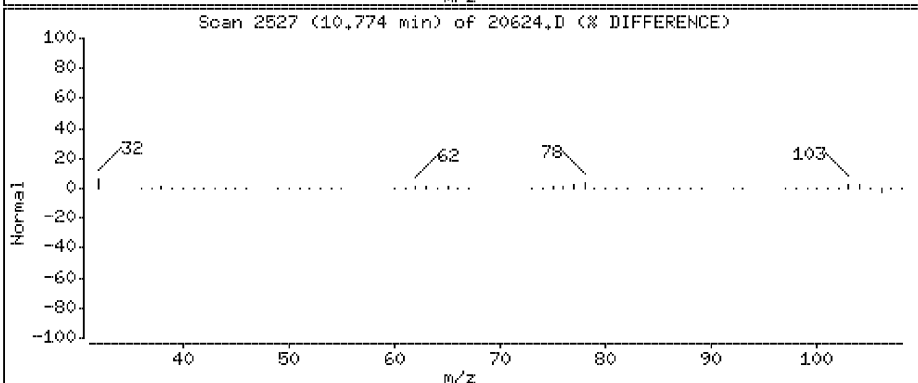
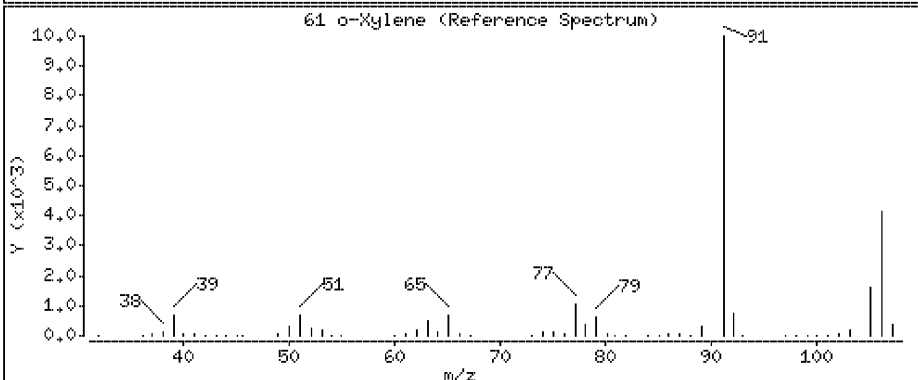
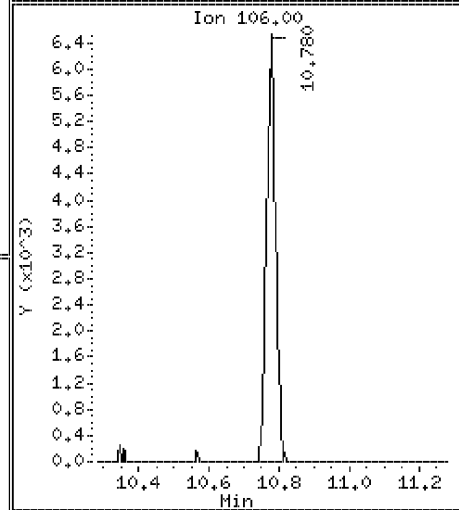
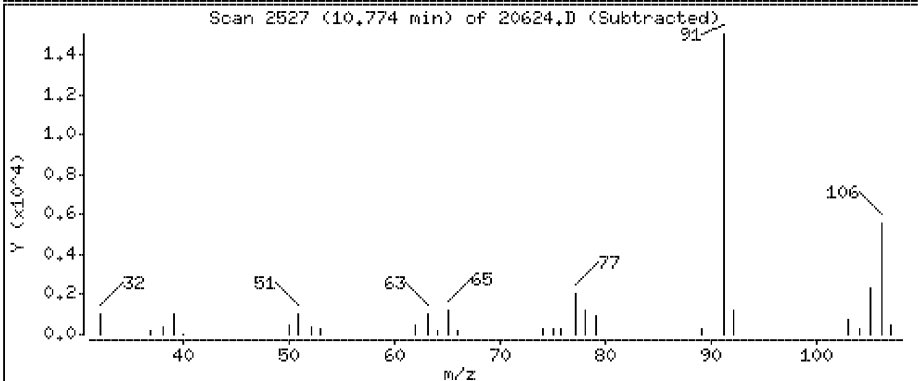
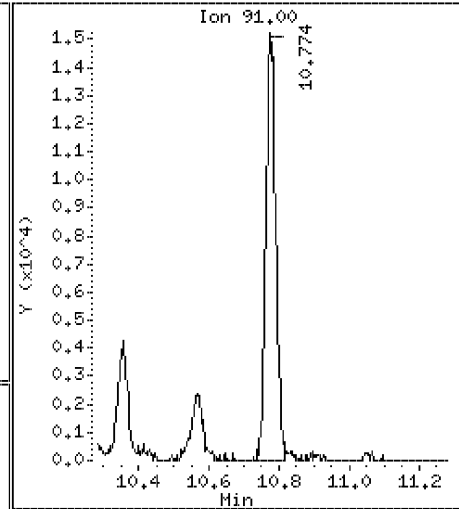
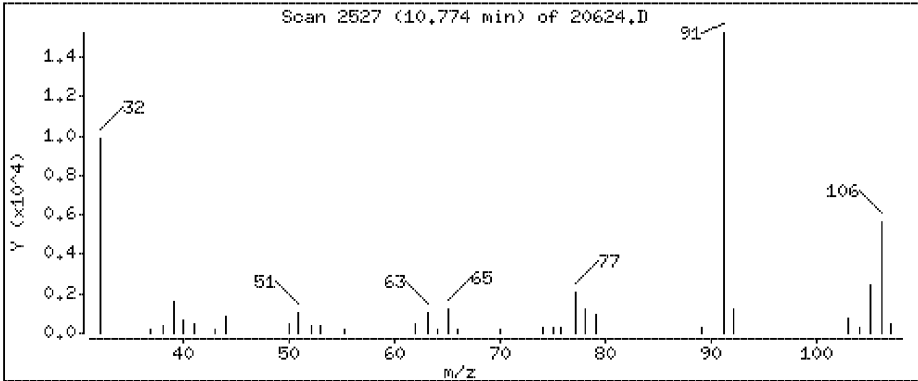
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

61 o-Xylene

Concentration: 0.827 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20624.D

Date : 26-JUL-2013 00:30

Client ID:

Instrument: 10airD.i

Sample Info:

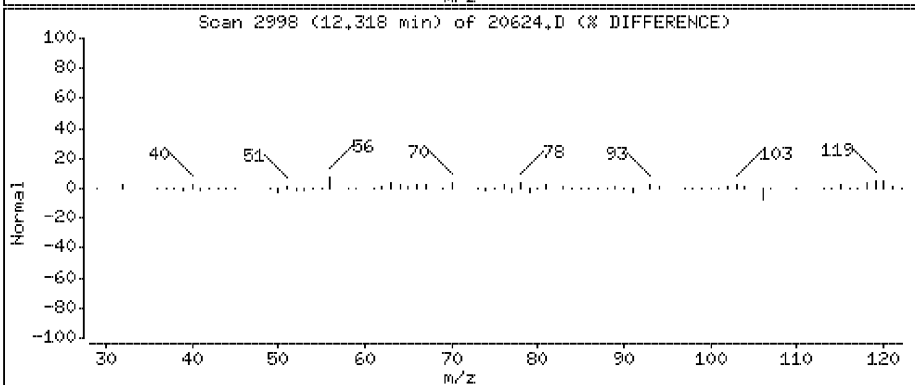
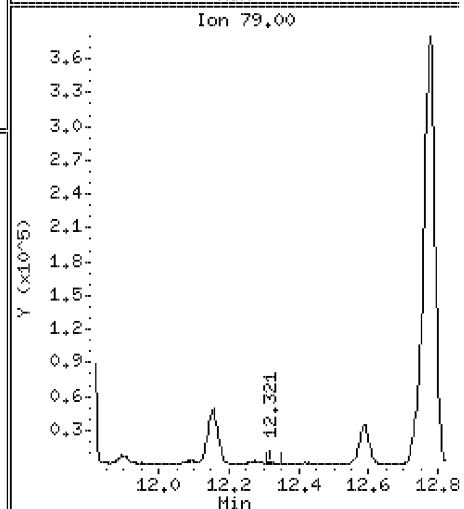
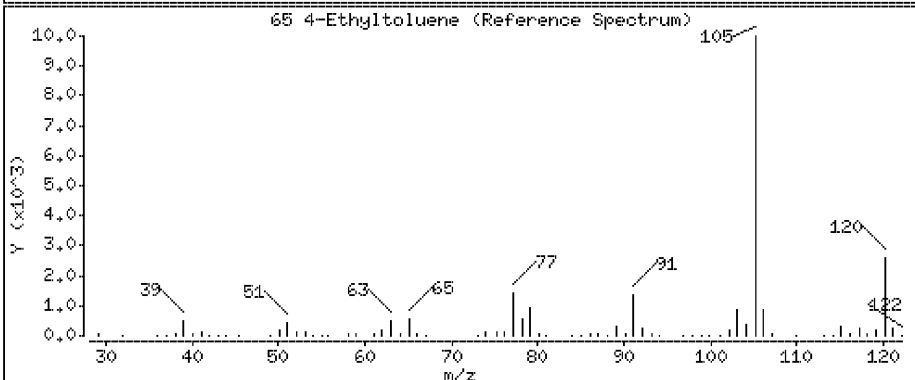
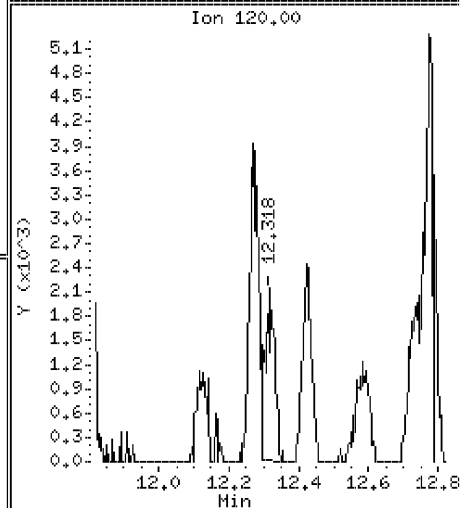
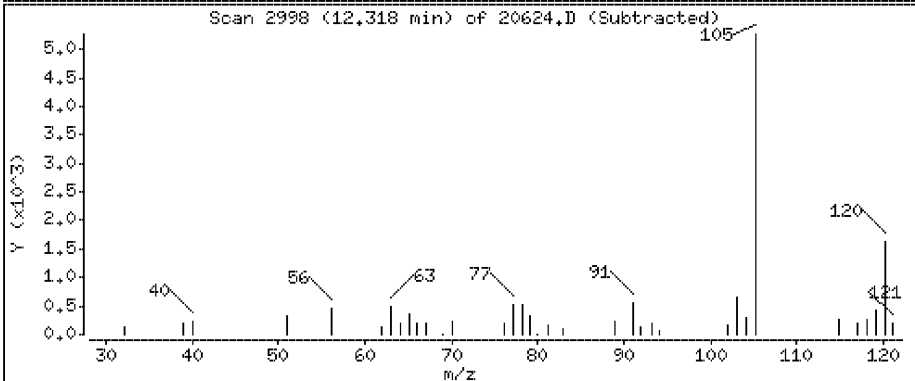
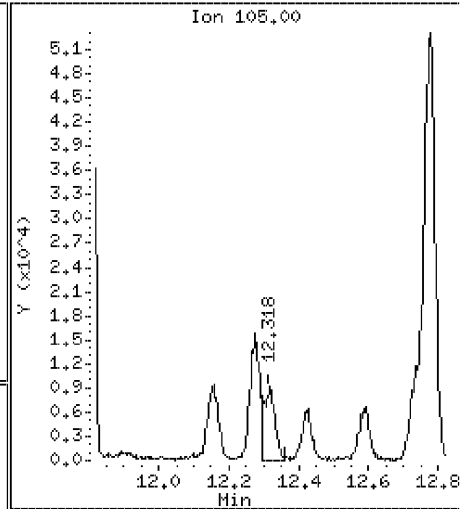
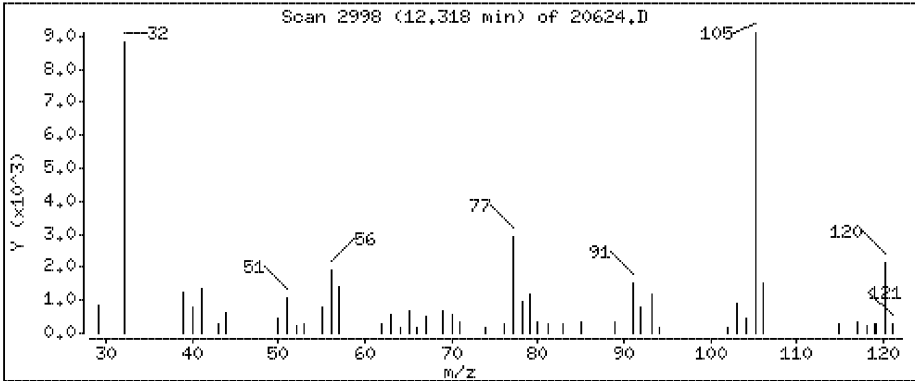
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

65 4-Ethyltoluene

Concentration: 0.785 ppbv



Data File: \\192.168.10.12\chem\10airD,i\072513,b\20624.D

Date : 26-JUL-2013 00:30

Client ID:

Instrument: 10airD.i

Sample Info:

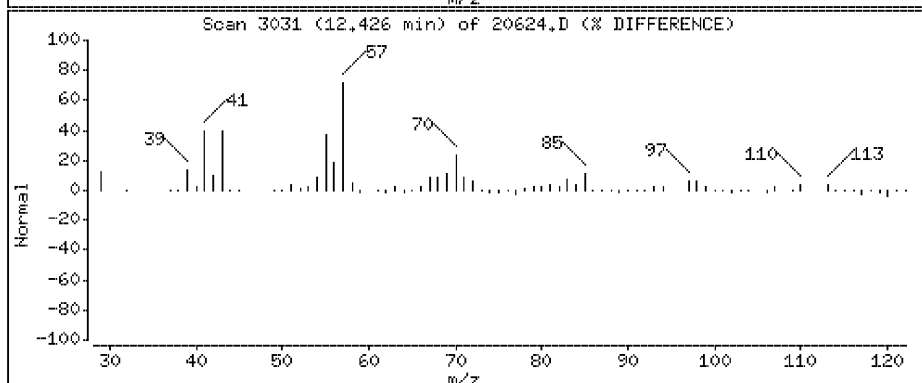
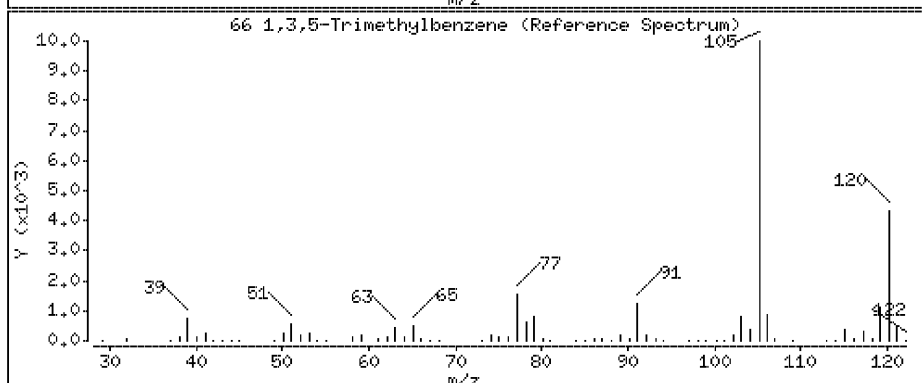
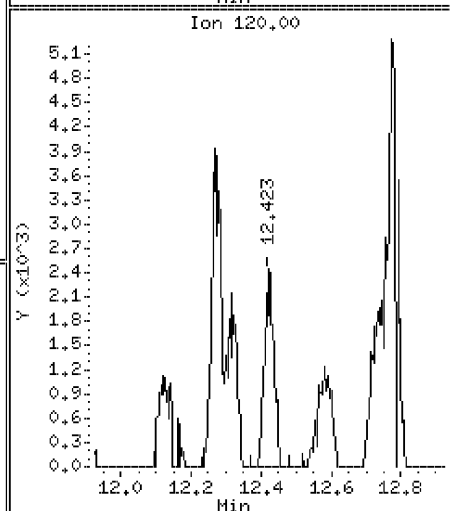
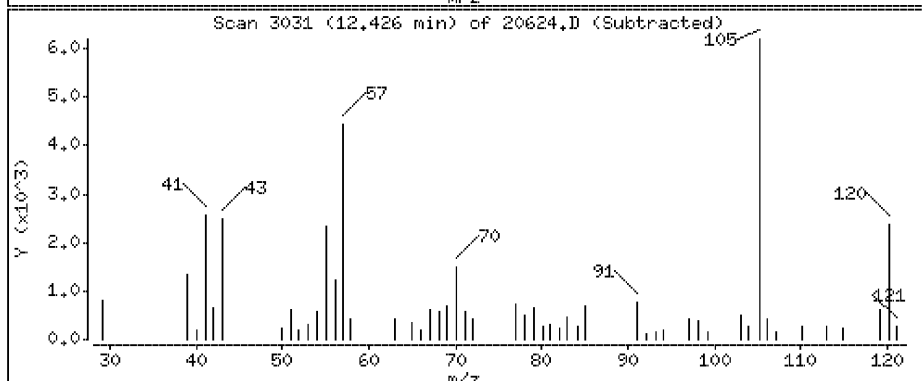
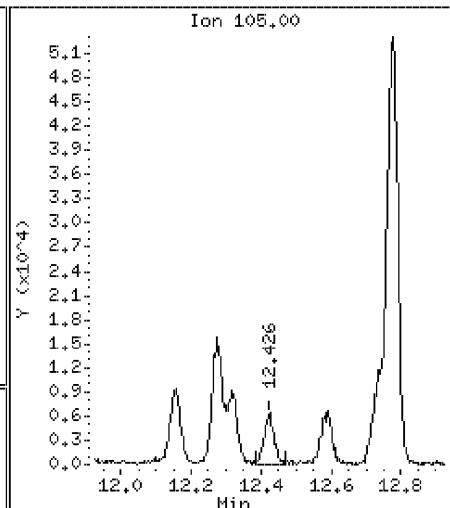
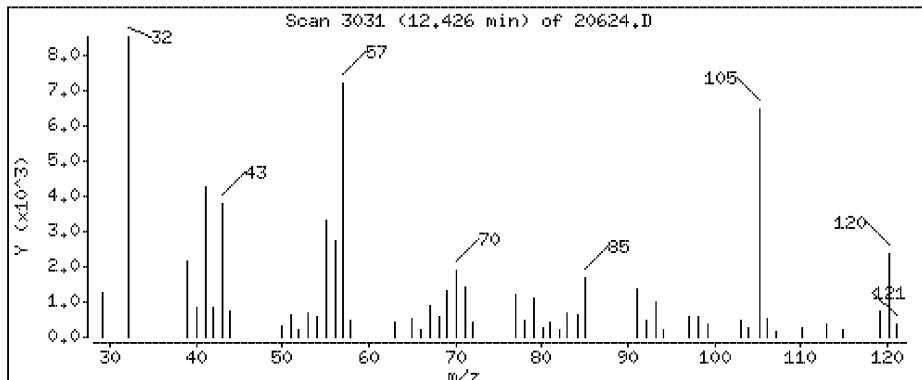
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0.32

66 1,3,5-Trimethylbenzene

Concentration: 0.664 ppbv



Data File: \\192.168.10.12\chem\10airD.i\072513,b\20624.D

Date : 26-JUL-2013 00:30

Client ID:

Instrument: 10airD.i

Sample Info:

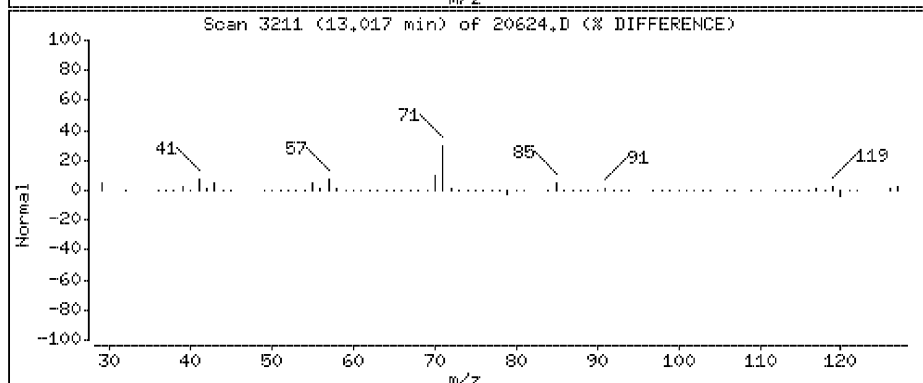
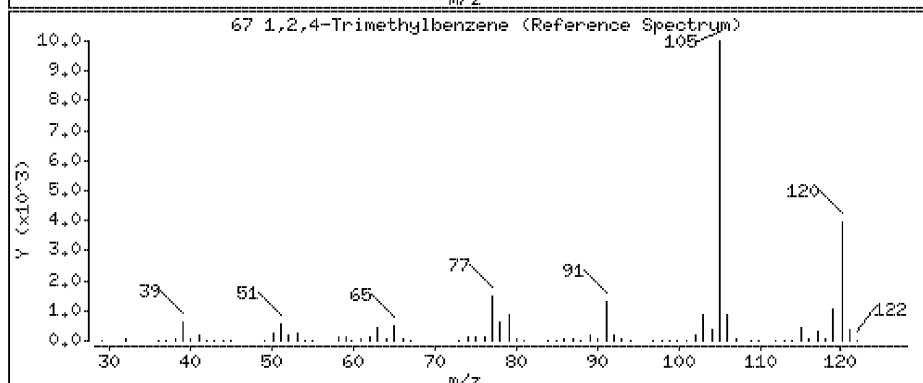
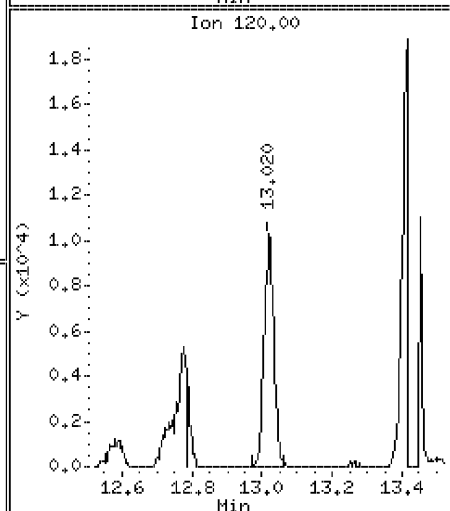
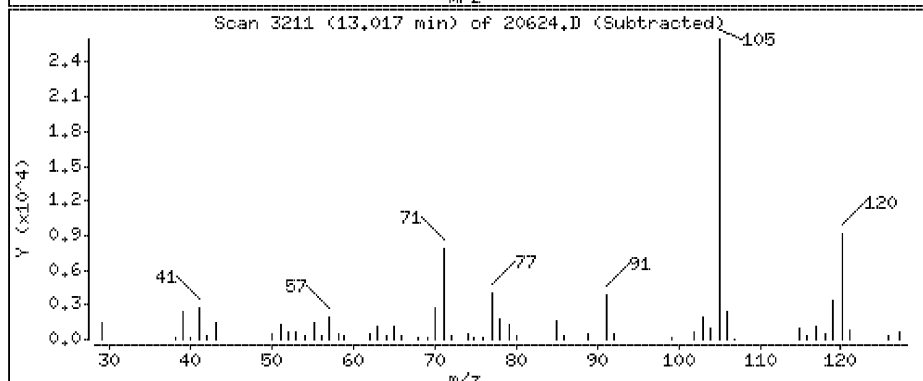
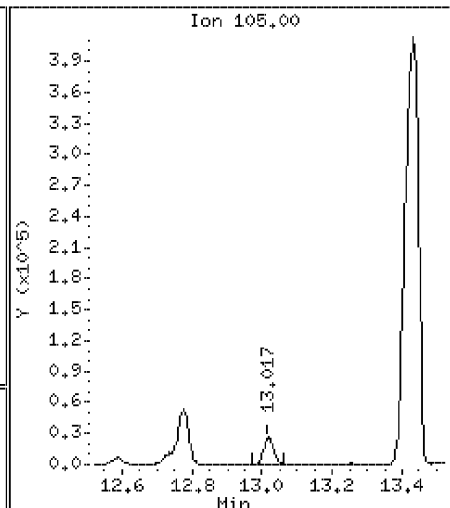
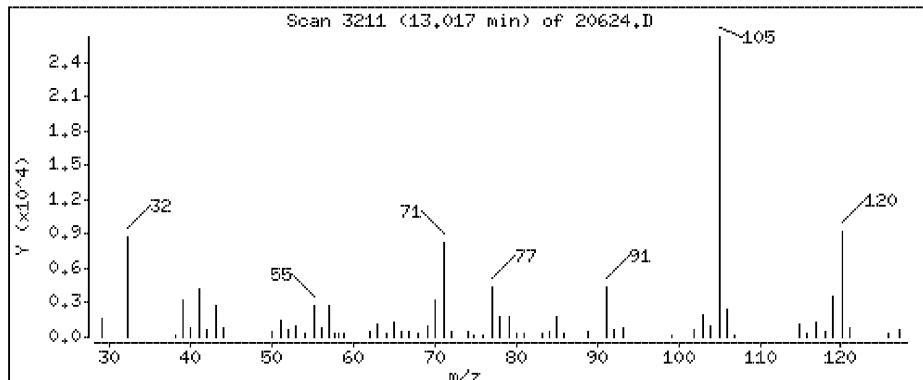
Operator: DR1

Column phase: J&W DB-5

Column diameter: 0,32

67 1,2,4-Trimethylbenzene

Concentration: 1,52 ppbv



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Date : 26-JUL-2013 00:30

Client ID:

Instrument: 10airD.i

Sample Info:

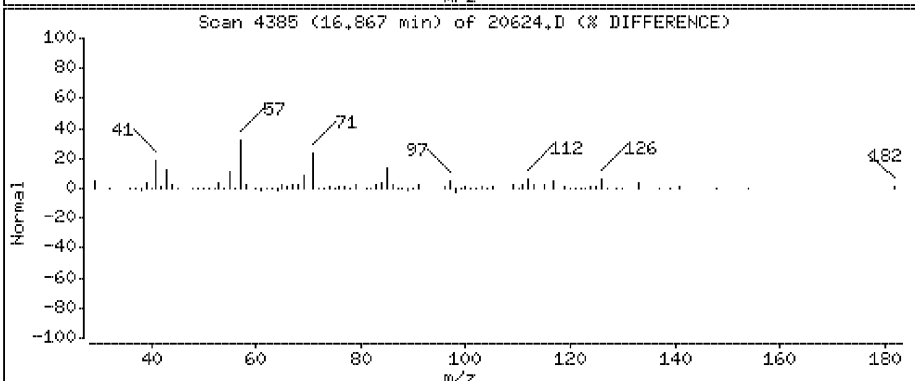
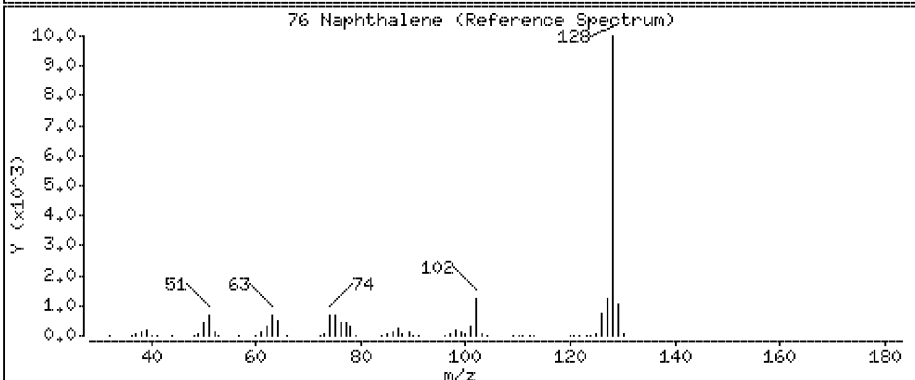
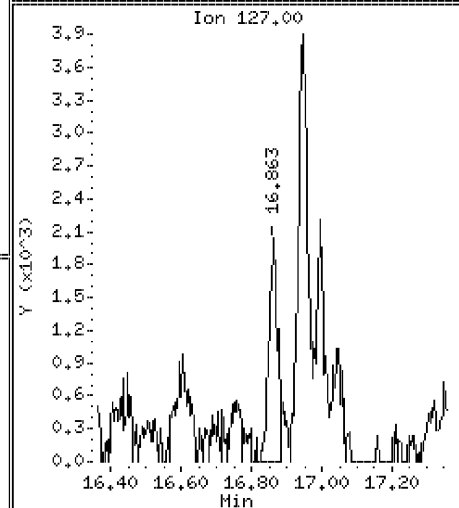
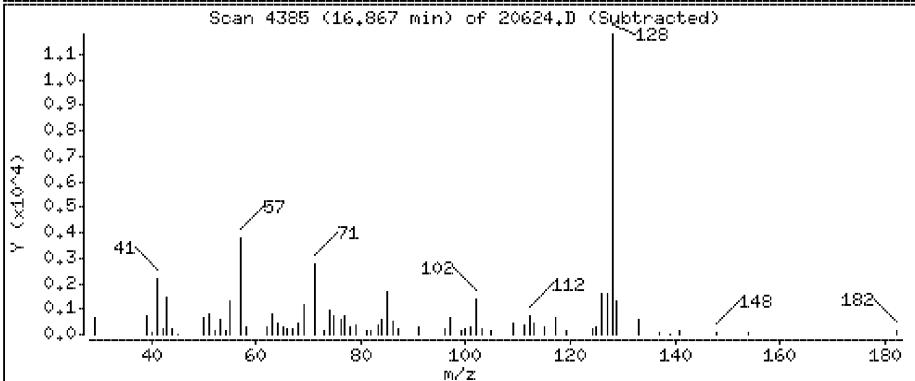
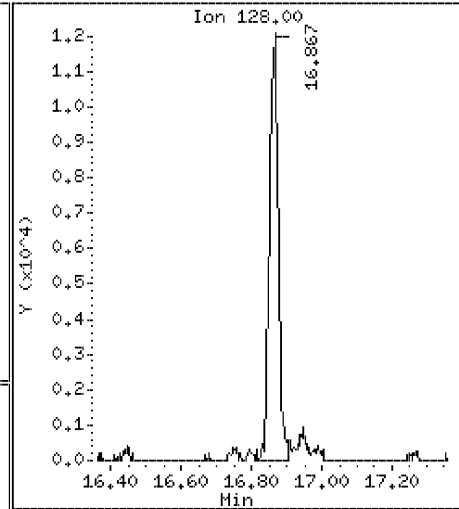
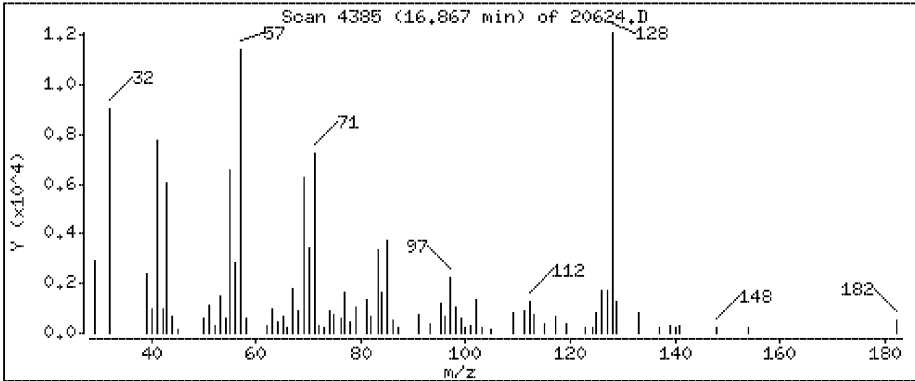
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Column phase: J&W DB-5

Column diameter: 0.32

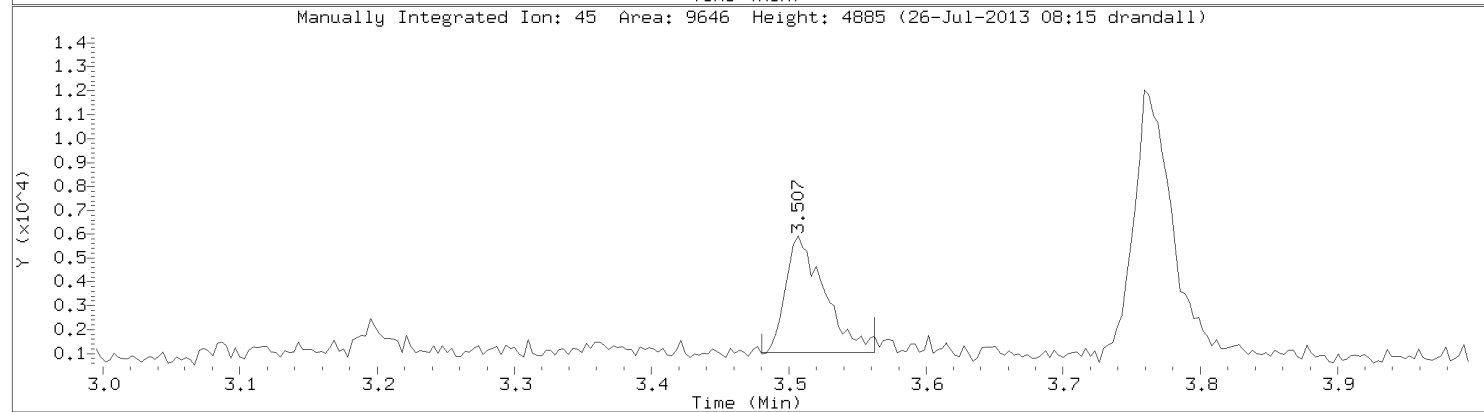
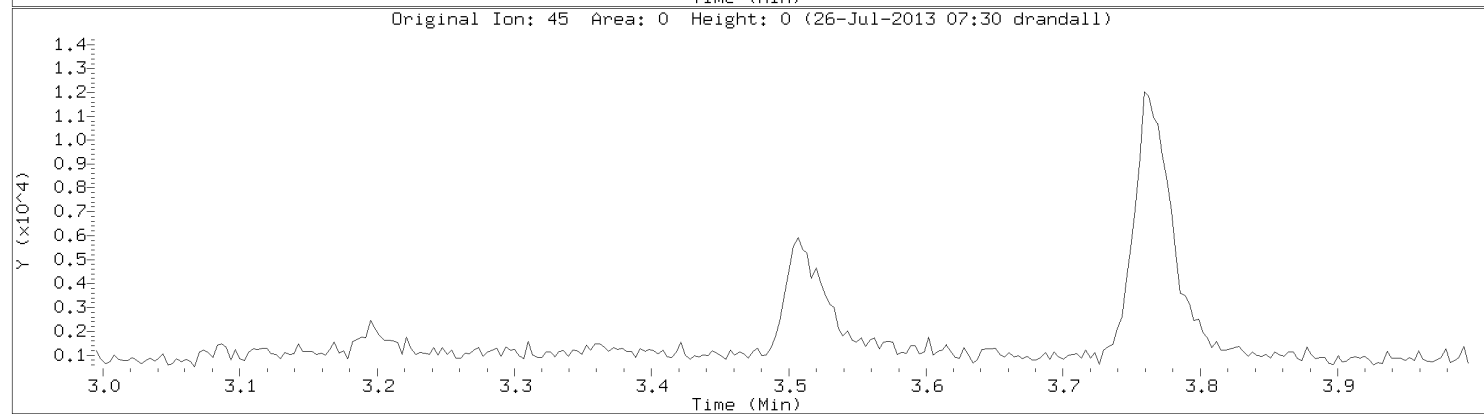
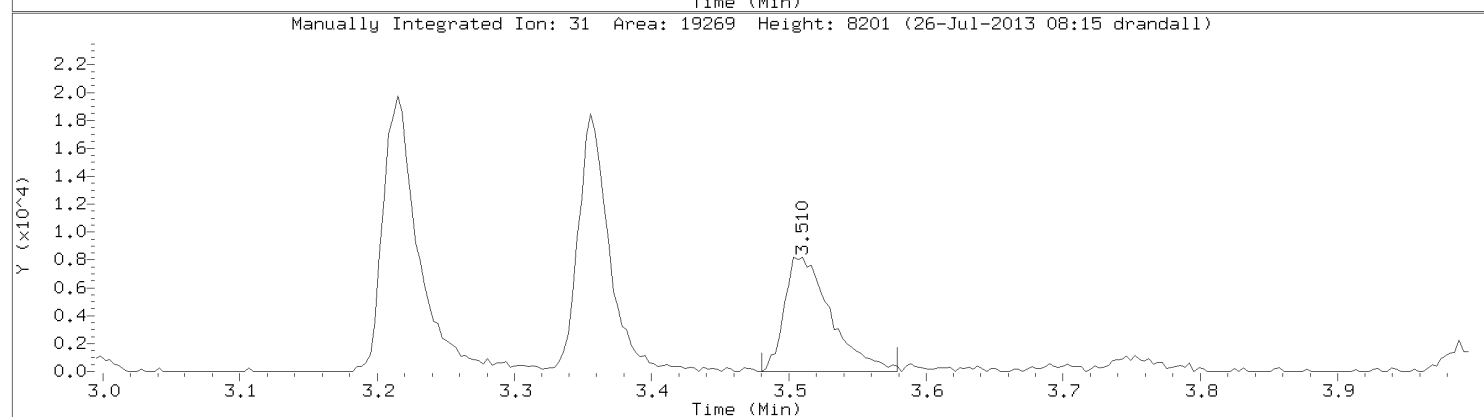
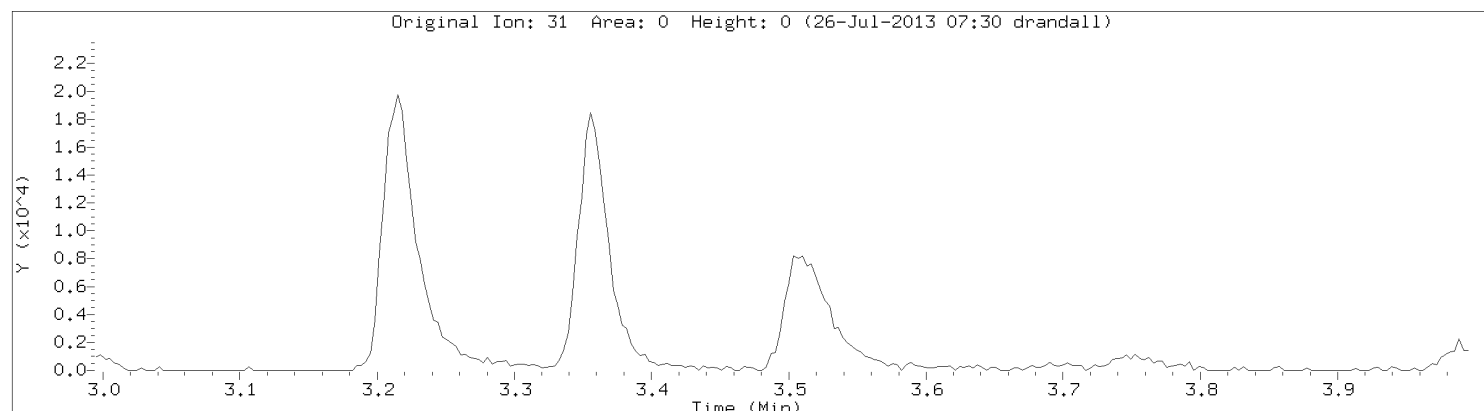
76 Naphthalene

Concentration: 1.33 ppbv



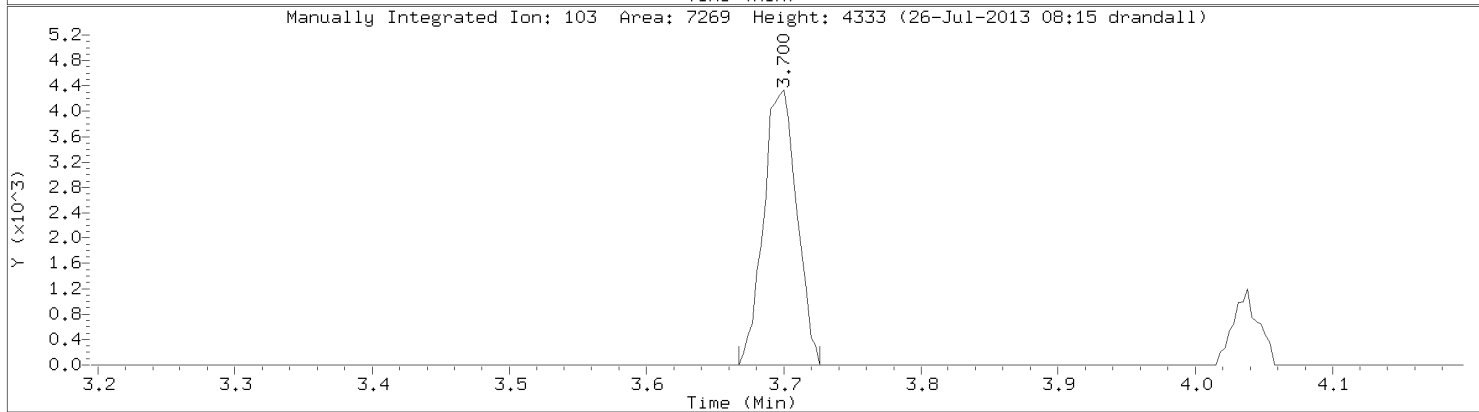
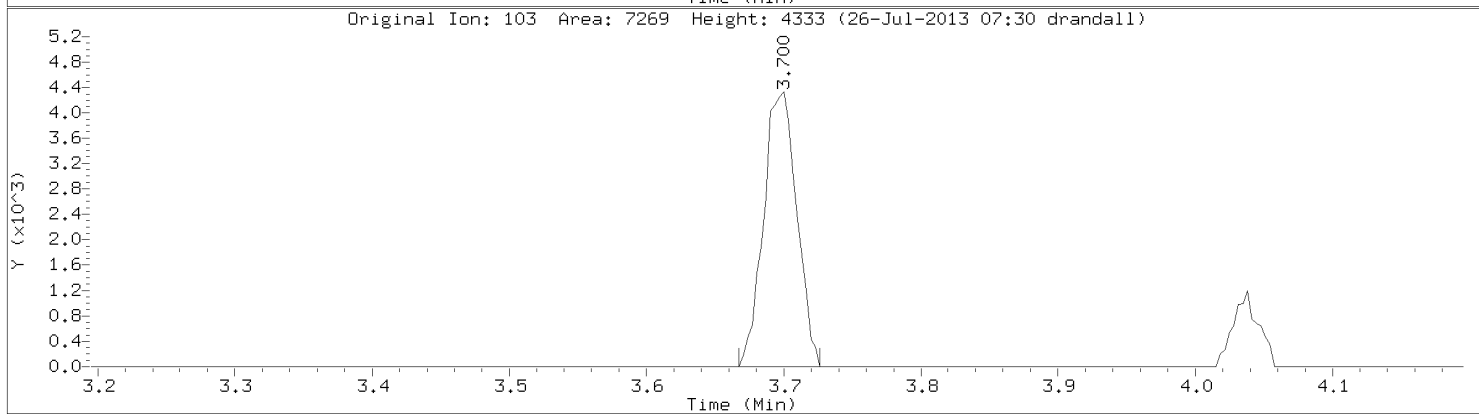
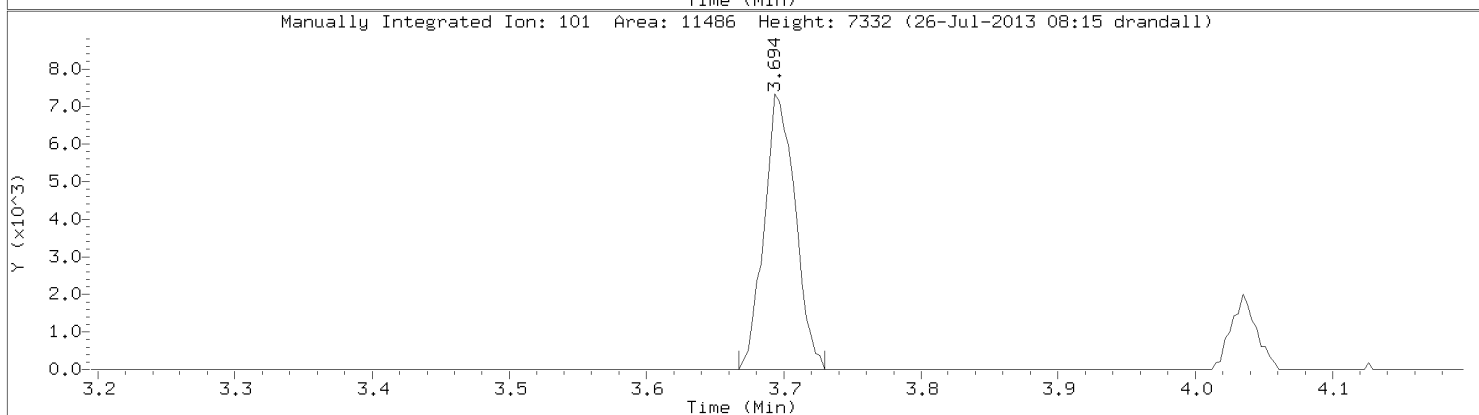
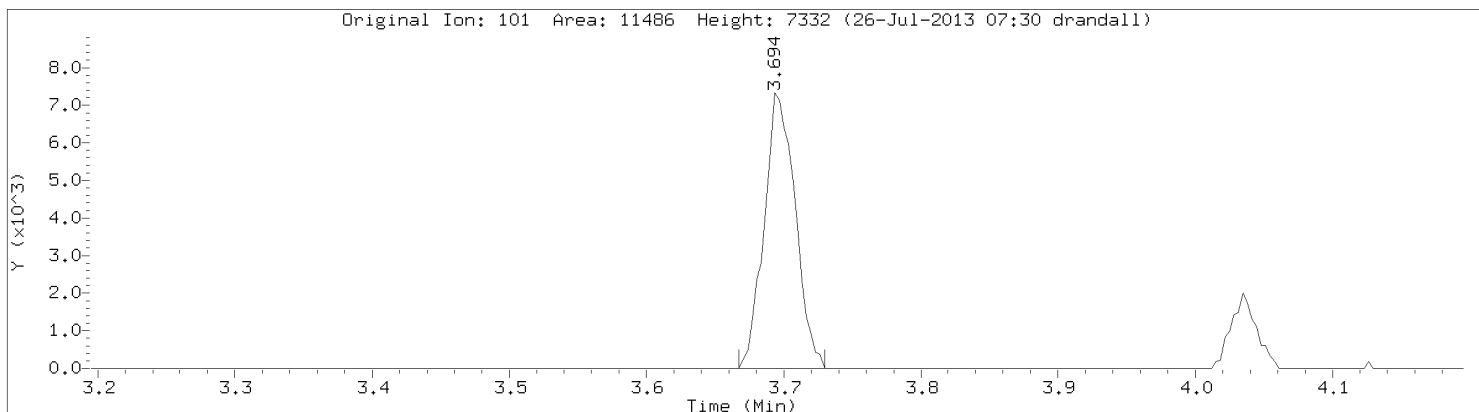
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Injection Date: 26-JUL-2013 00:30
Instrument: 10airD.i
Lab Sample ID: 10236207016

Compound: Ethanol
CAS Number: 64-17-5

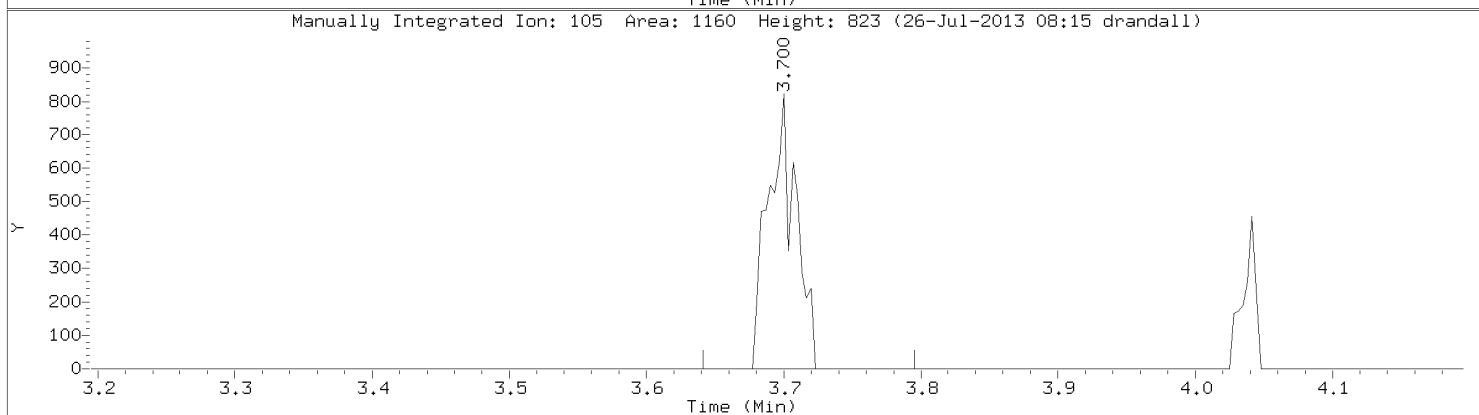
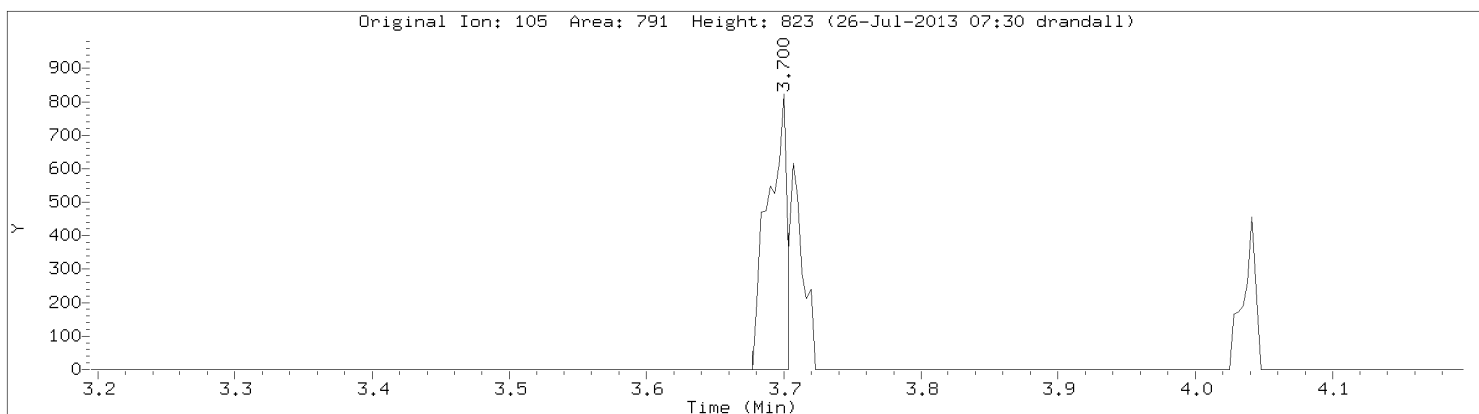


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Instrument: 10airD.i
Lab Sample ID: 10236207016

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

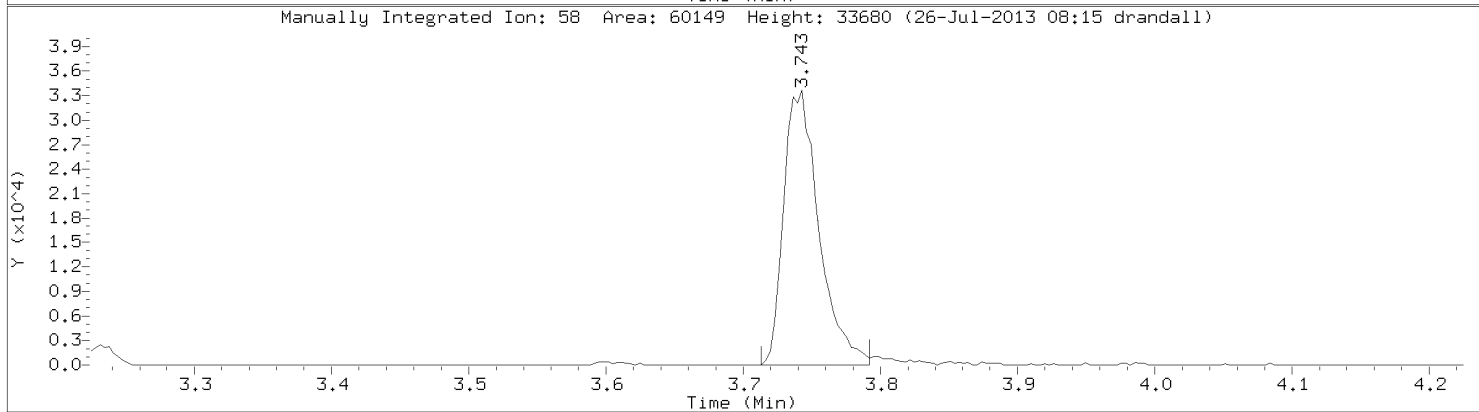
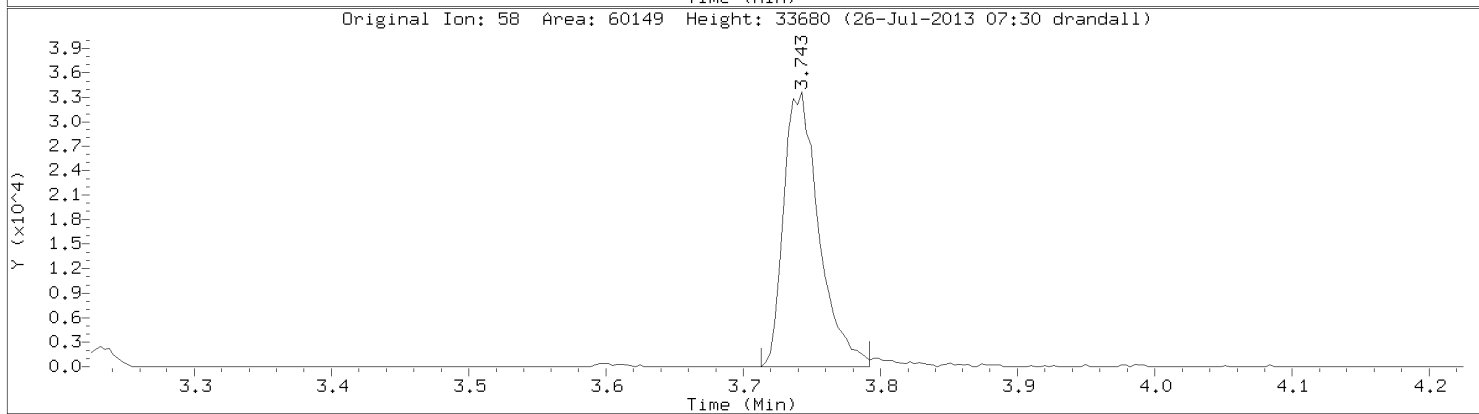
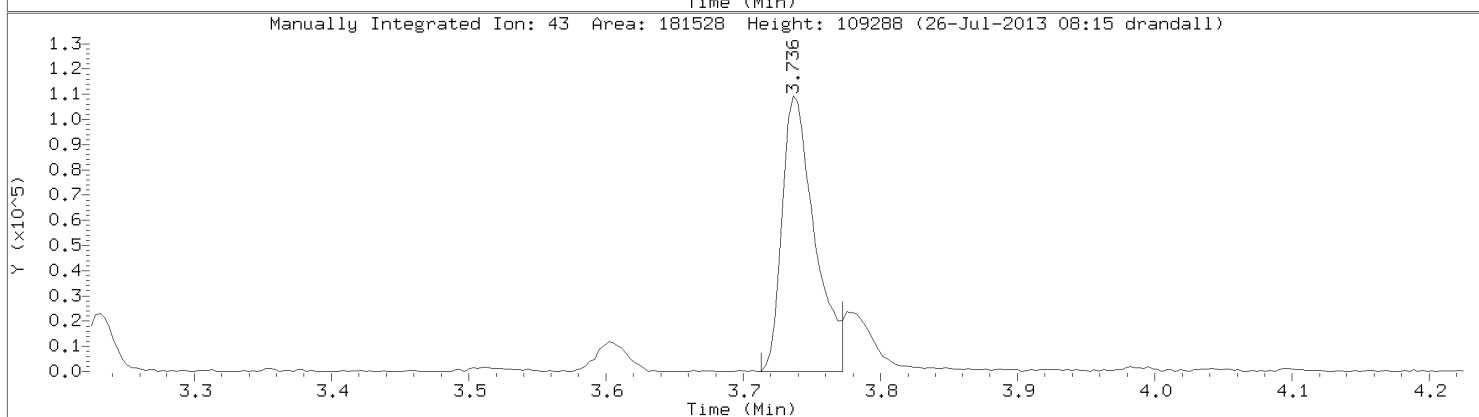
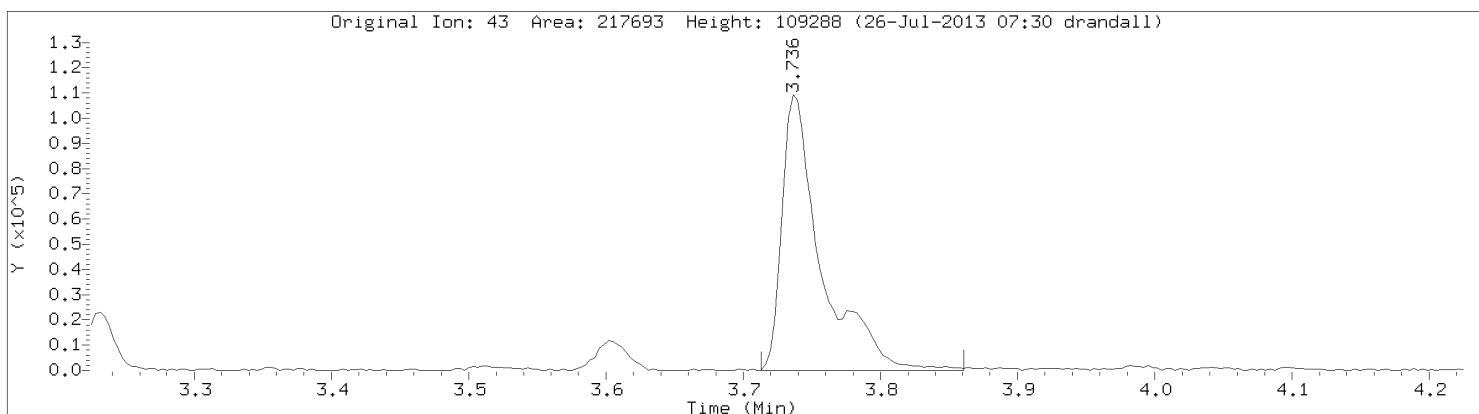


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Lab Sample ID: 10236207016



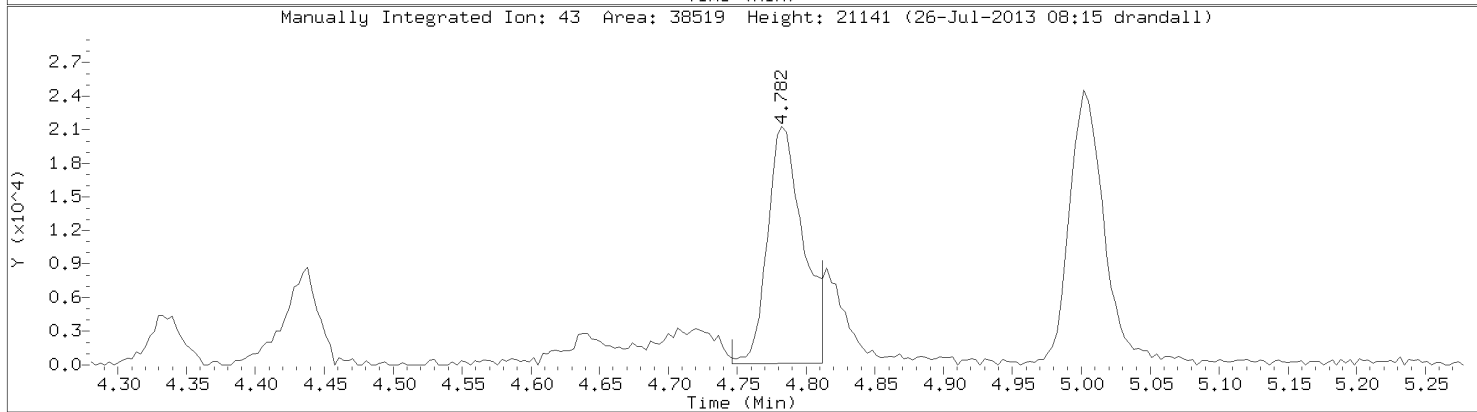
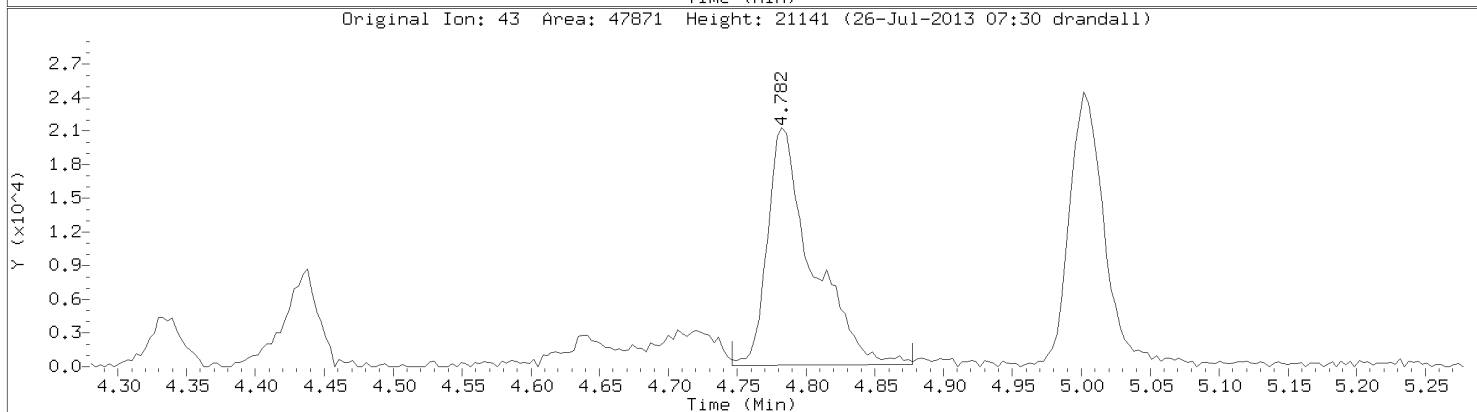
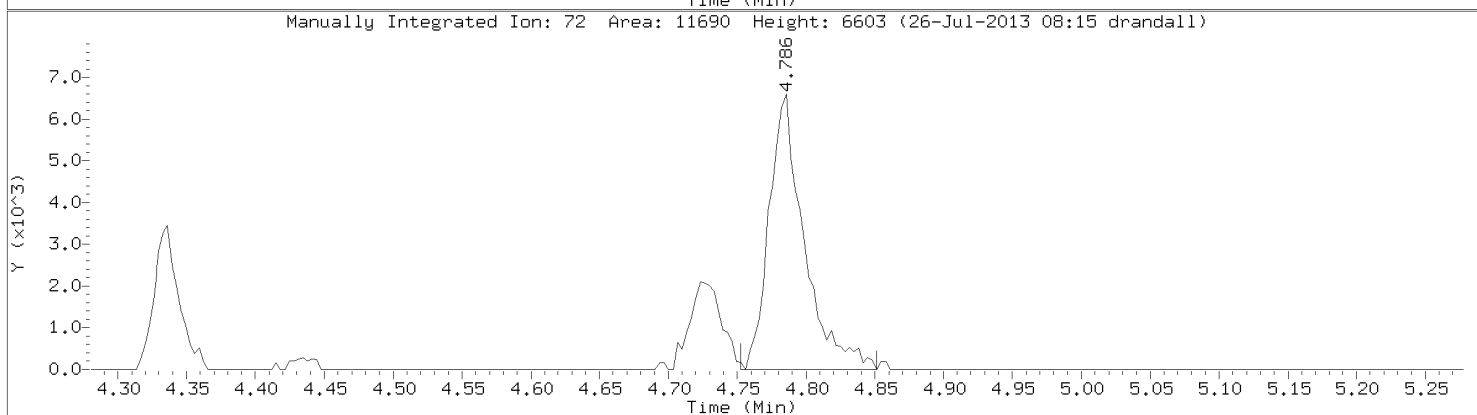
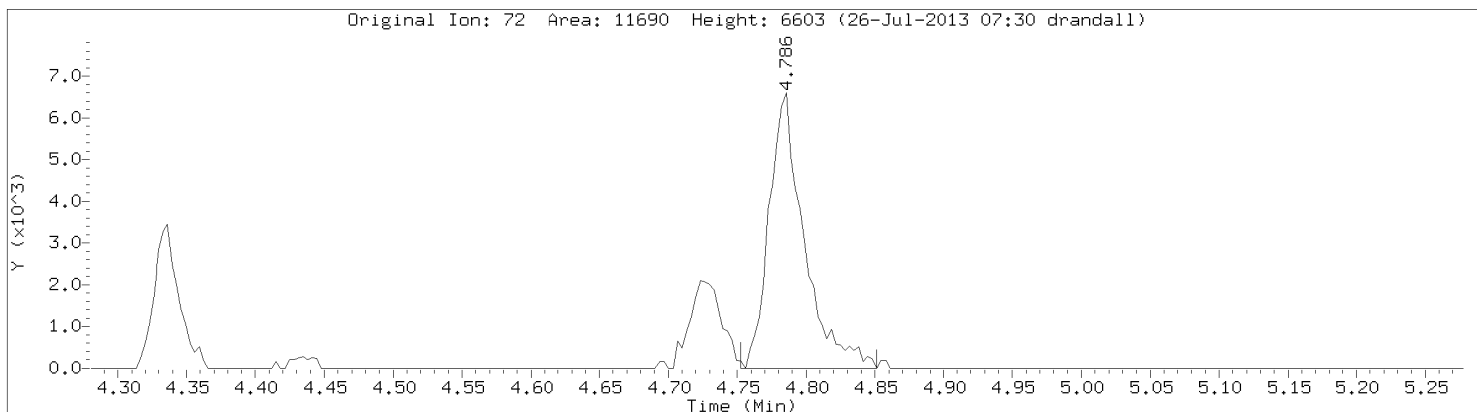
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Instrument: 10airD.i
Lab Sample ID: 10236207016

Compound: Acetone
CAS Number: 67-64-1



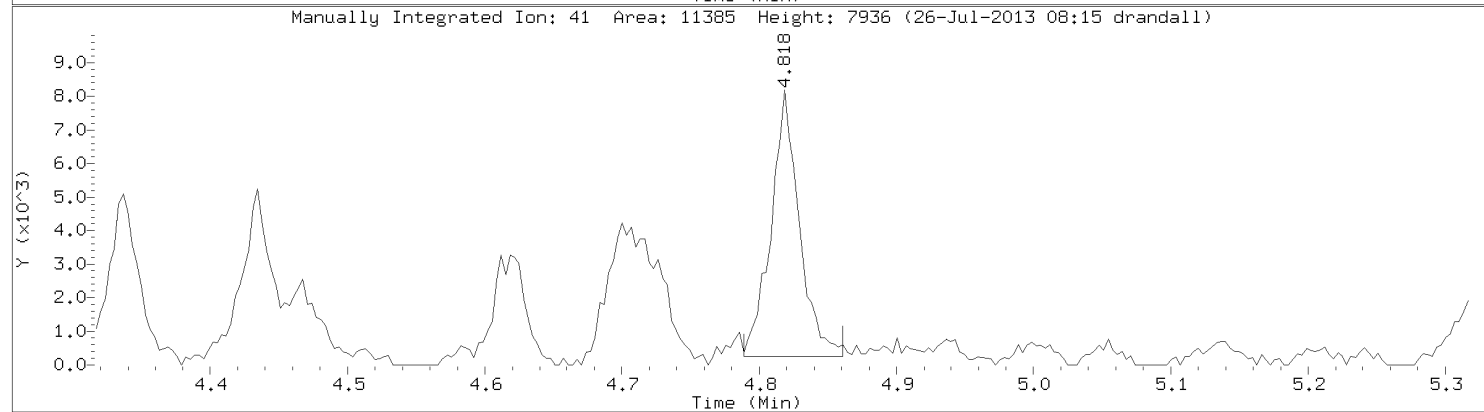
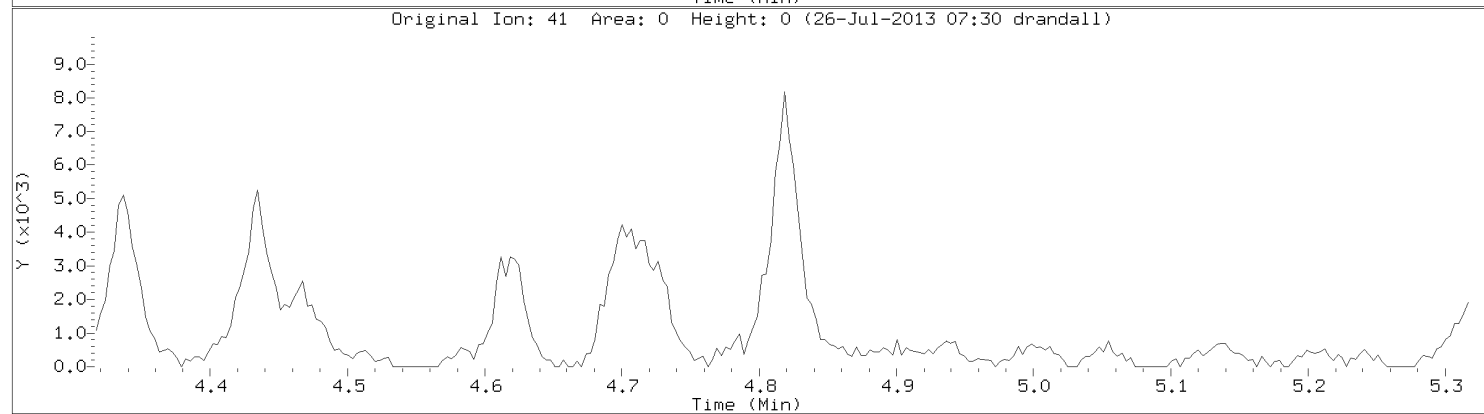
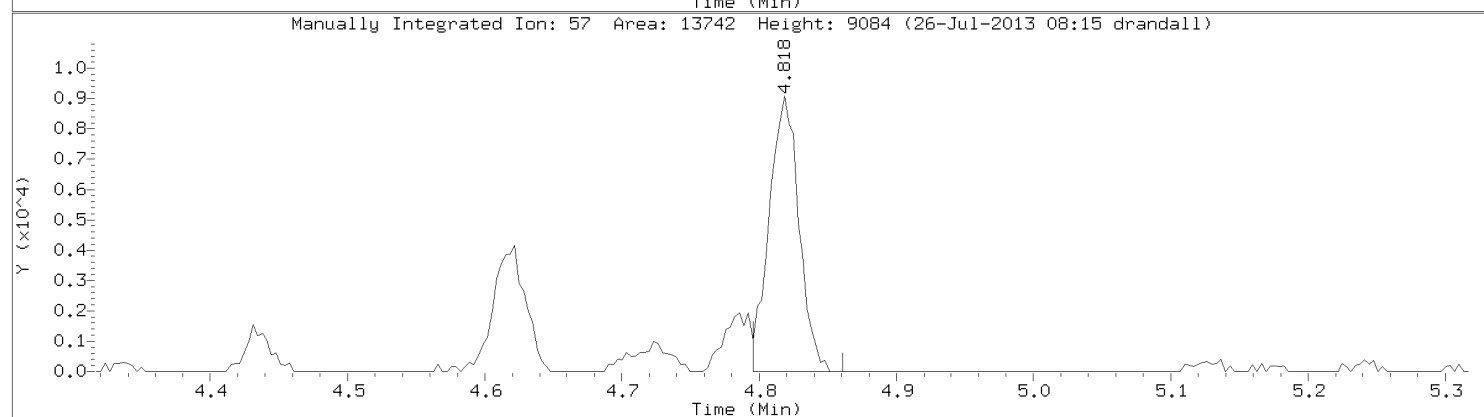
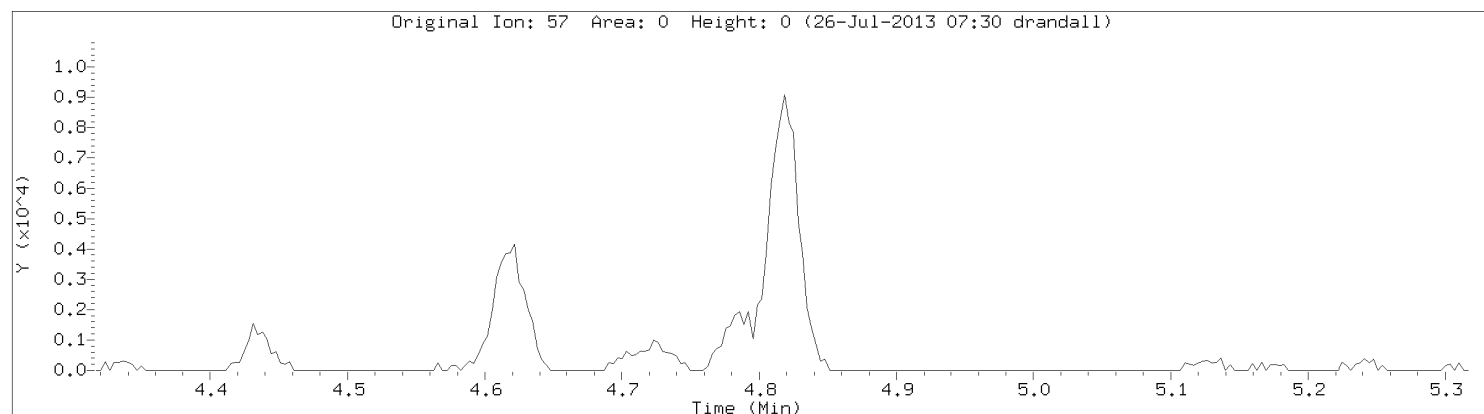
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Instrument: 10airD.i
Lab Sample ID: 10236207016

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

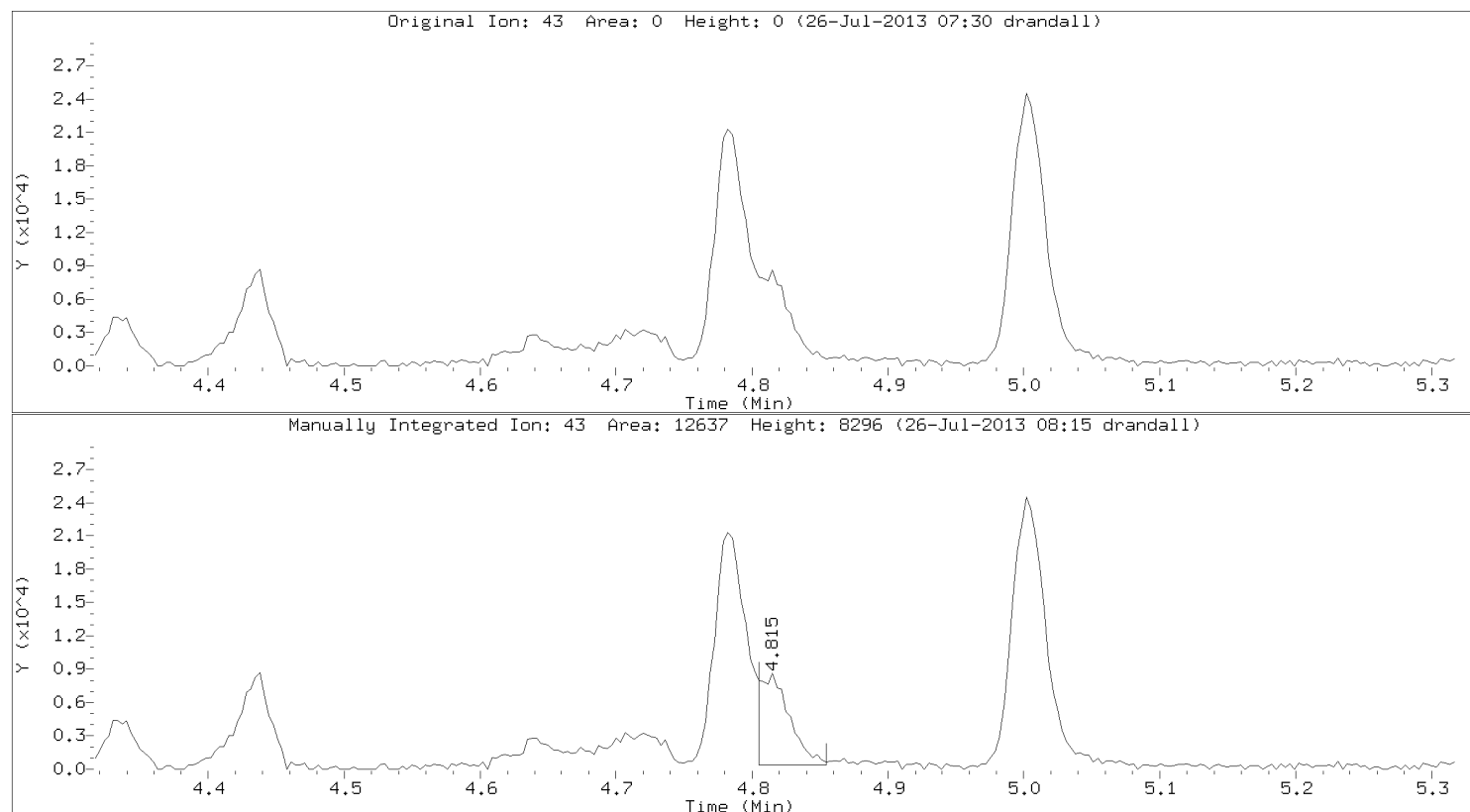


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Injection Date: 26-JUL-2013 00:30
Instrument: 10airD.i
Lab Sample ID: 10236207016

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

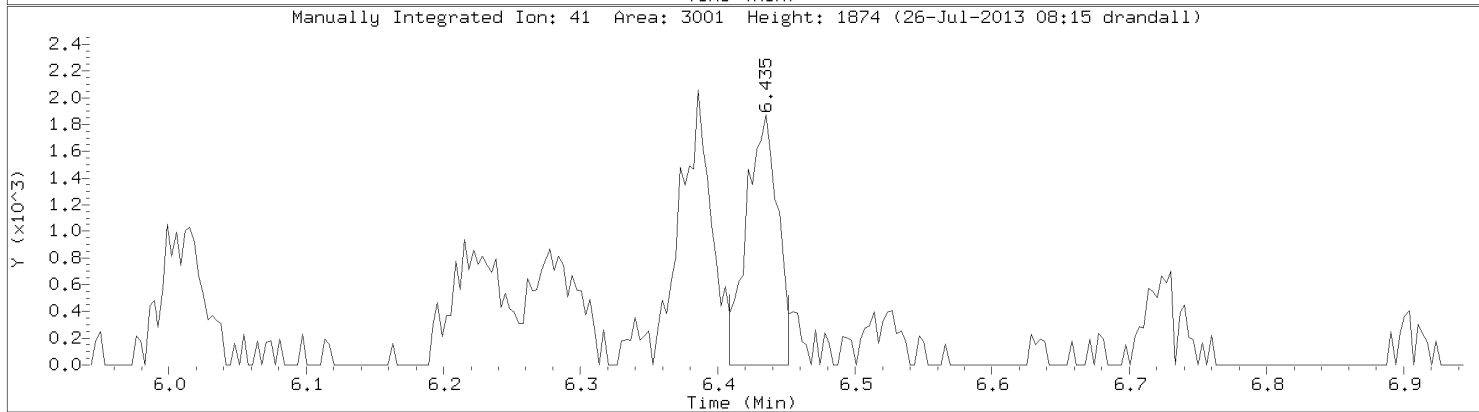
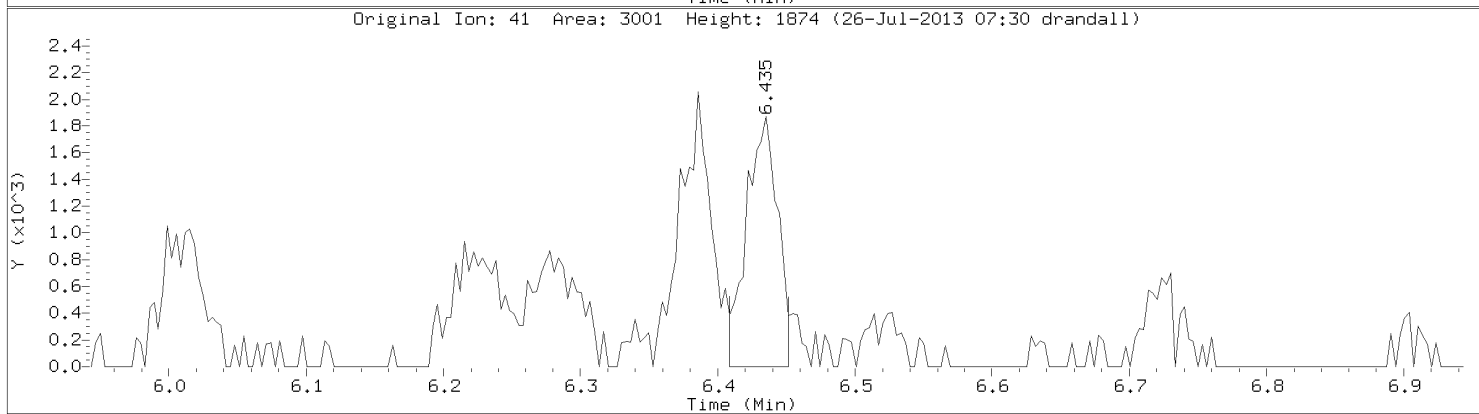
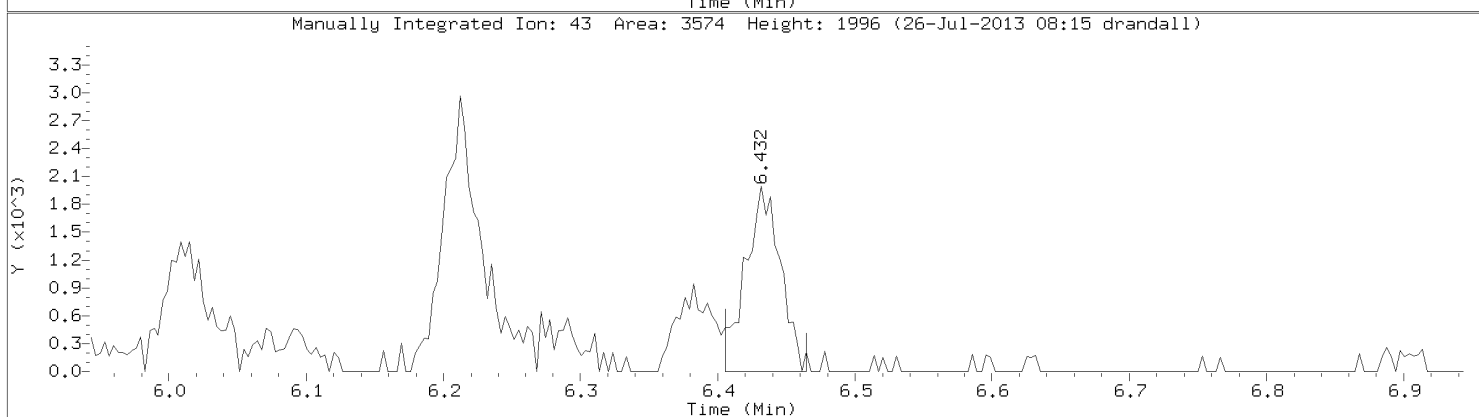
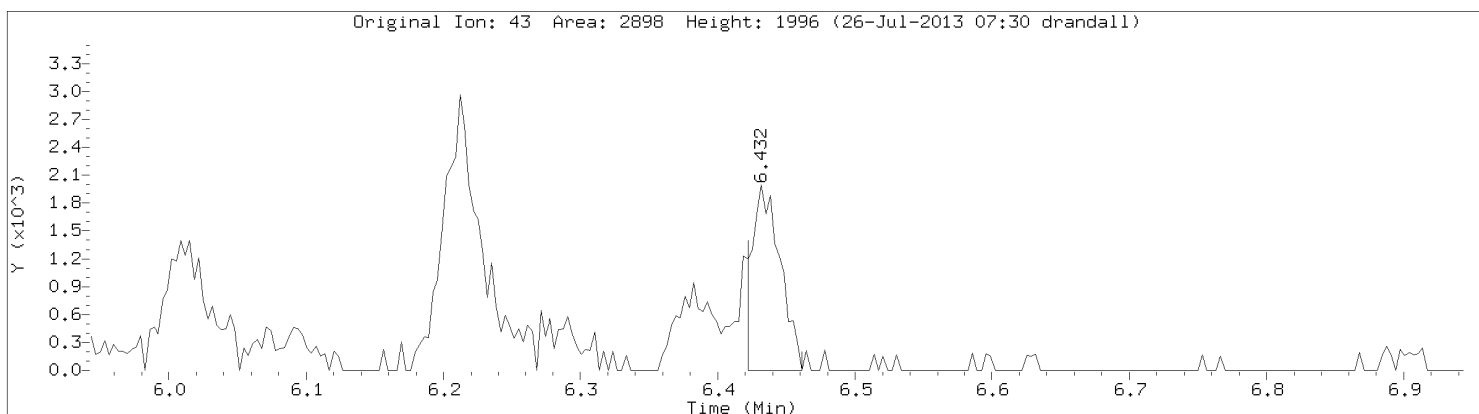


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Instrument: 10airD.i
Lab Sample ID: 10236207016



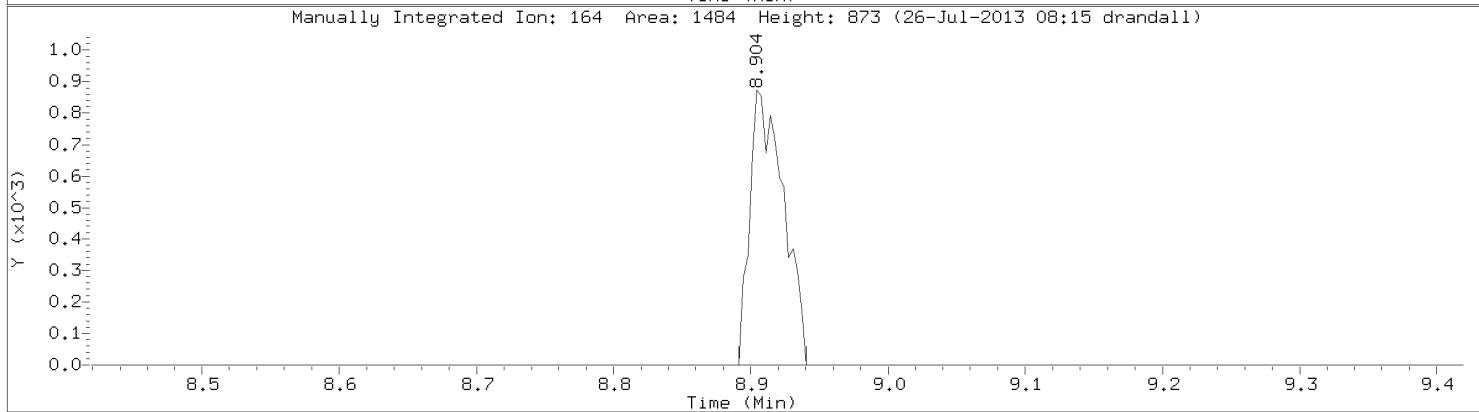
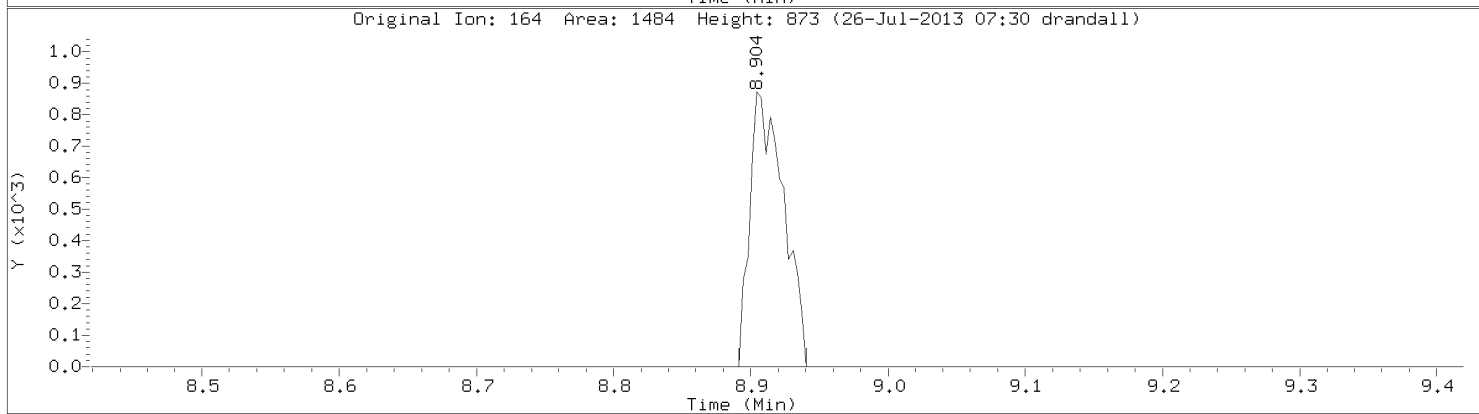
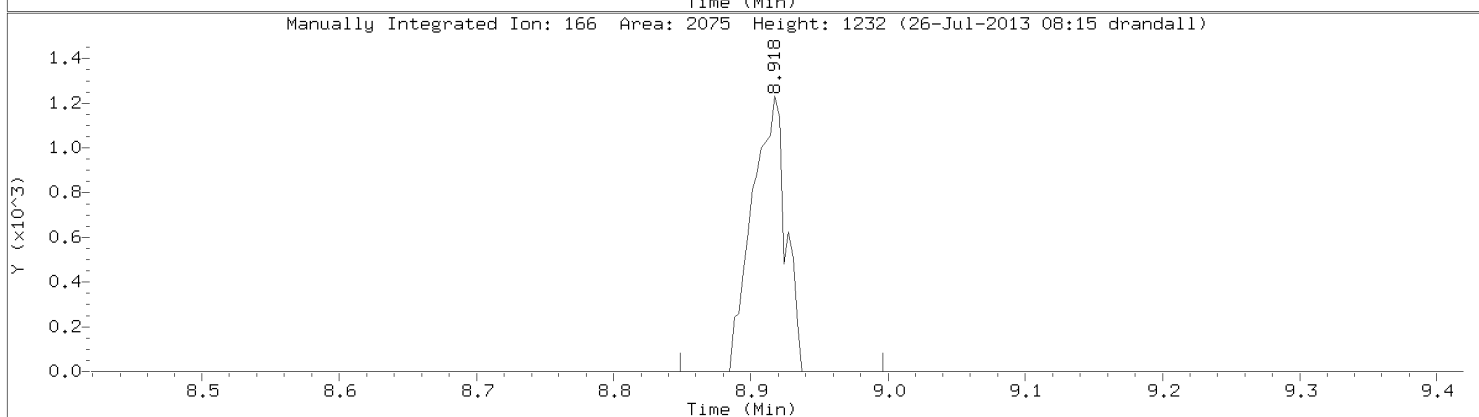
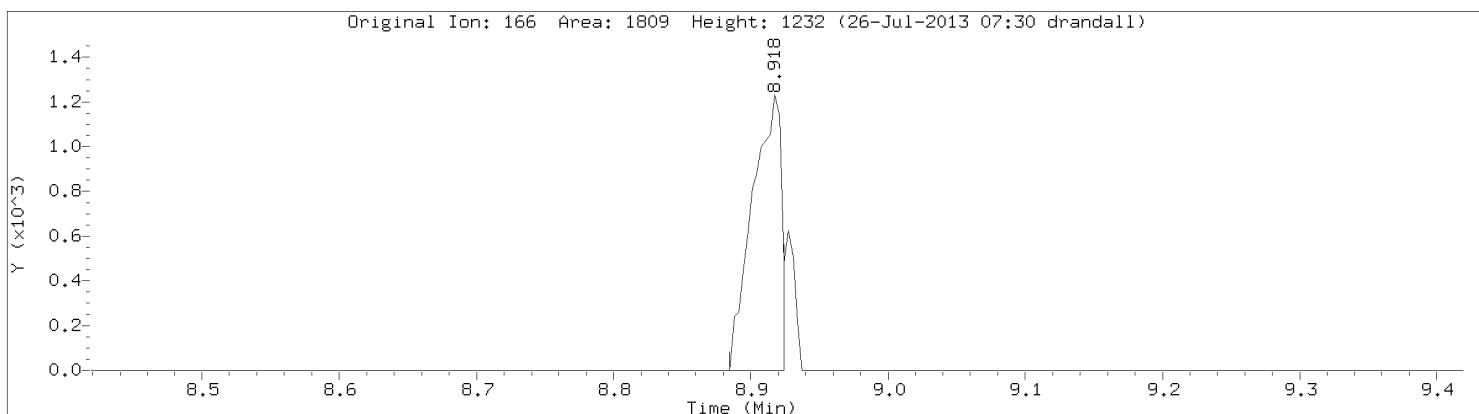
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Injection Date: 26-JUL-2013 00:30
Instrument: 10airD.i
Lab Sample ID: 10236207016

Compound: Heptane
CAS Number: 142-82-5

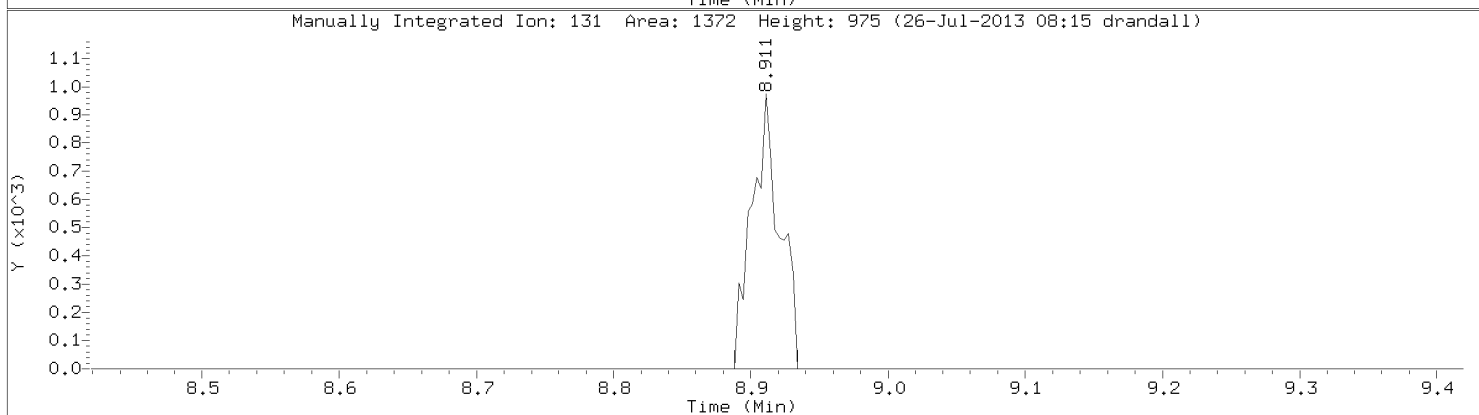
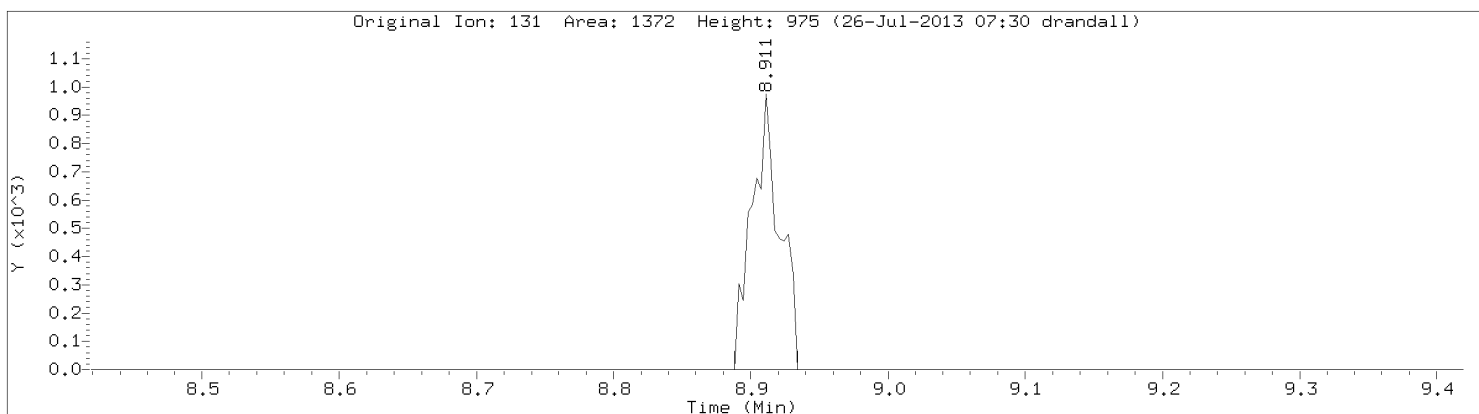


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Injection Date: 26-JUL-2013 00:30
Instrument: 10airD.i
Lab Sample ID: 10236207016

Compound: Tetrachloroethene
CAS Number: 127-18-4

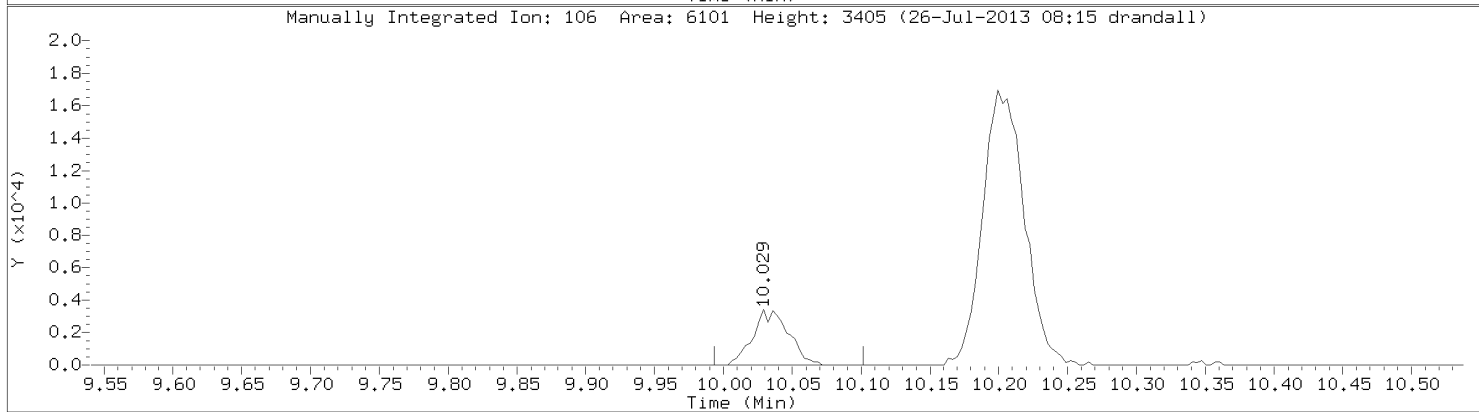
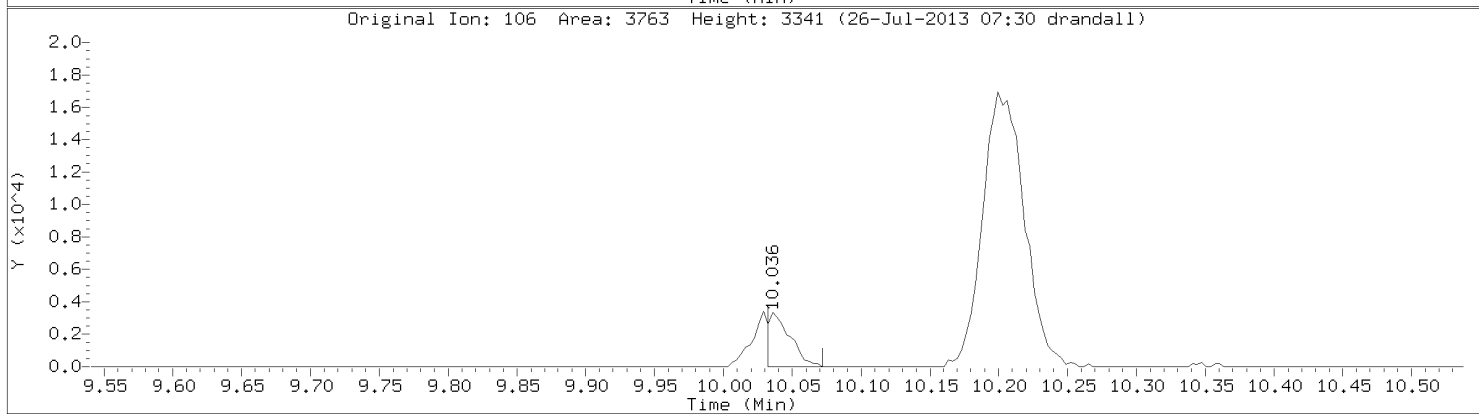
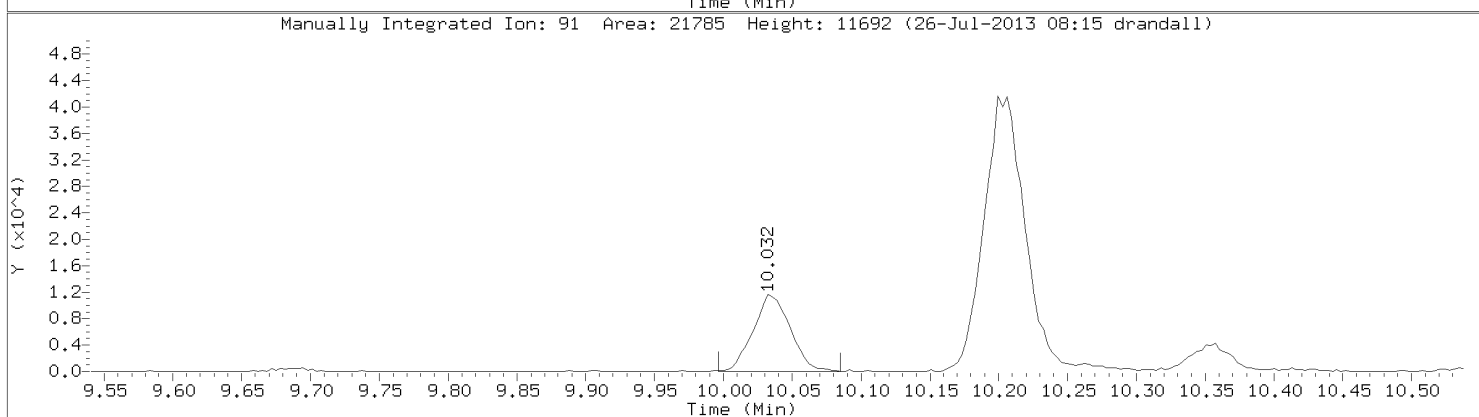
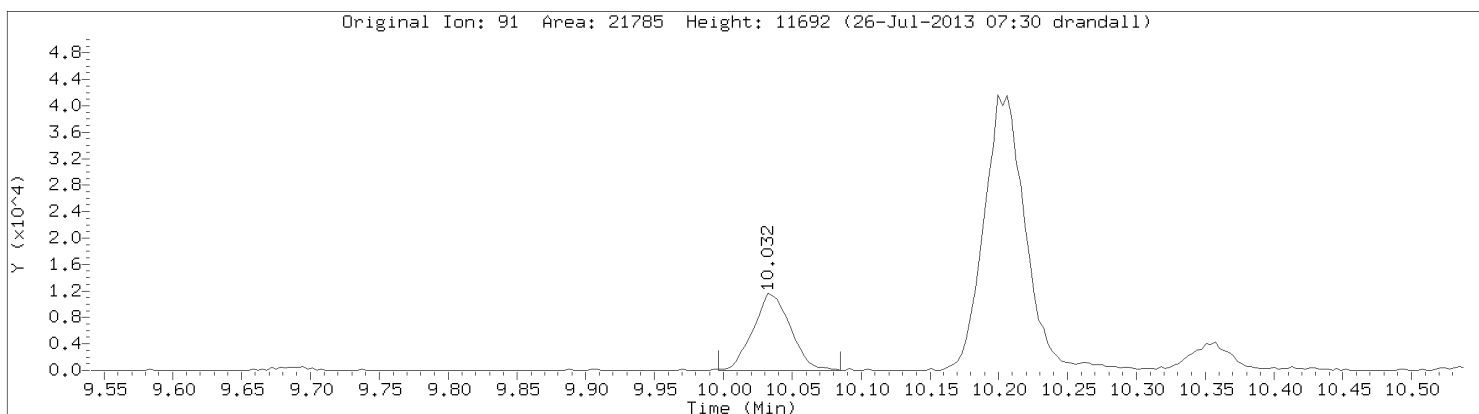


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Instrument: 10airD.i
Lab Sample ID: 10236207016



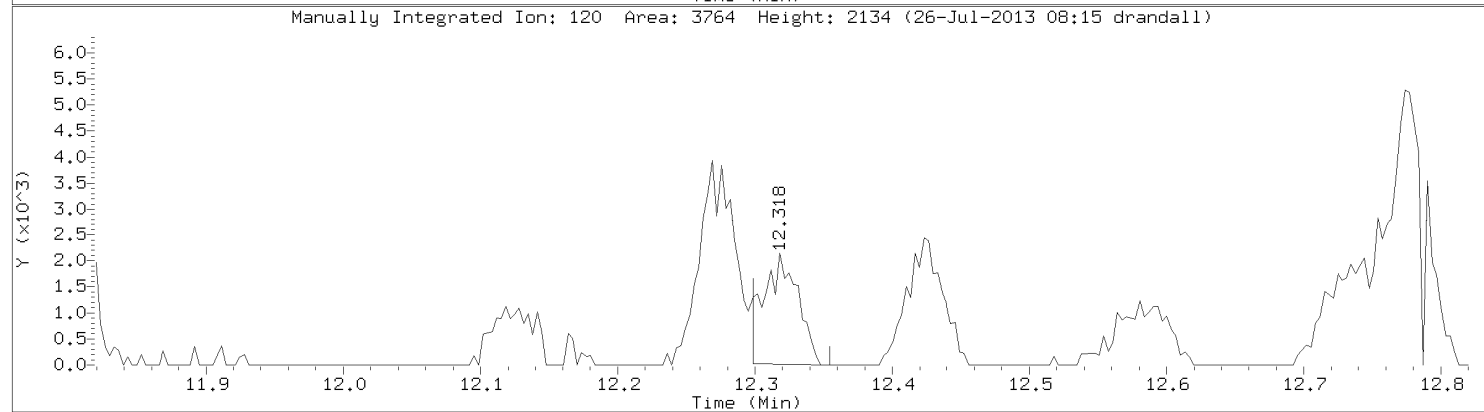
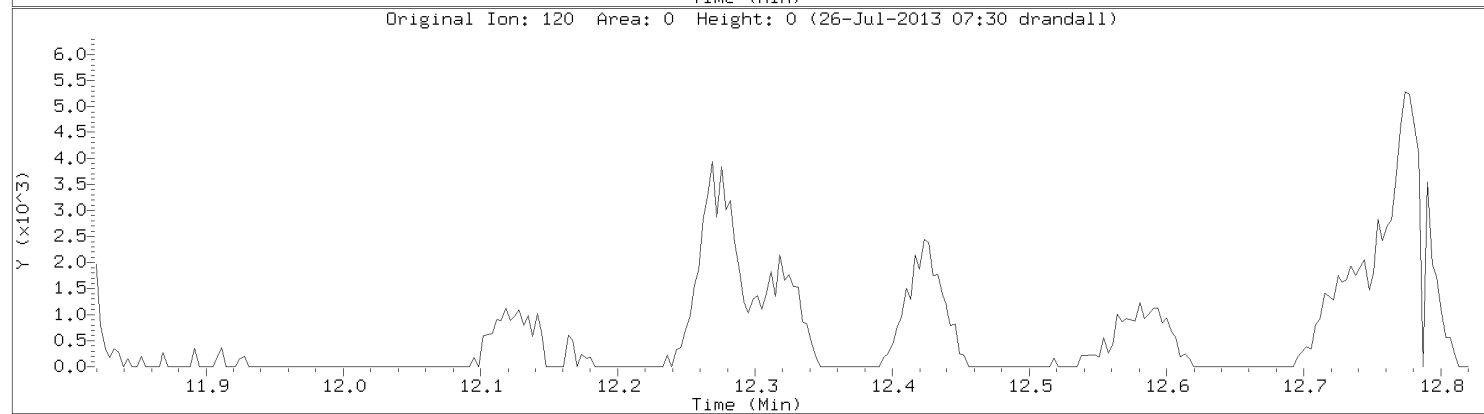
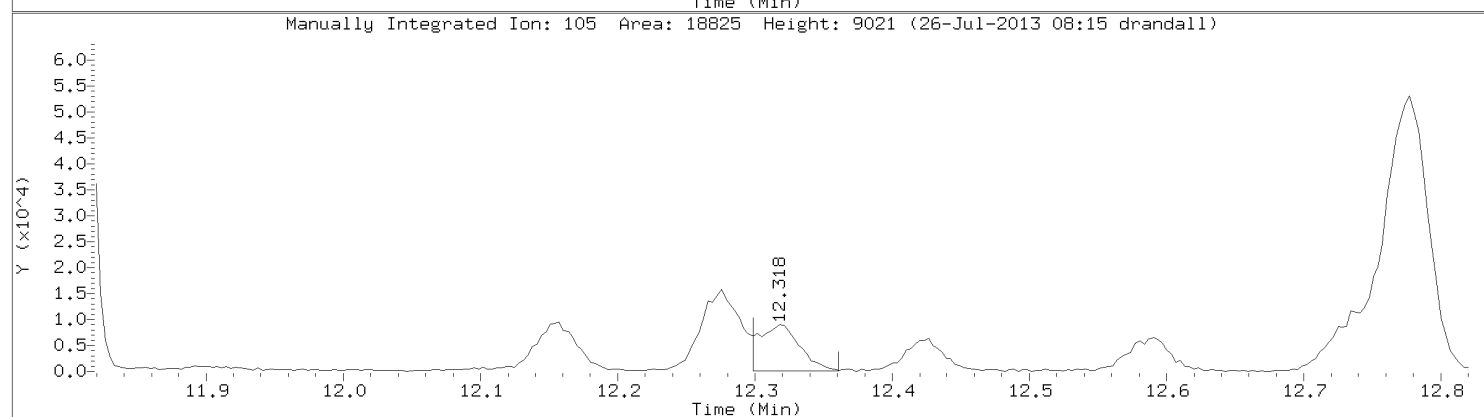
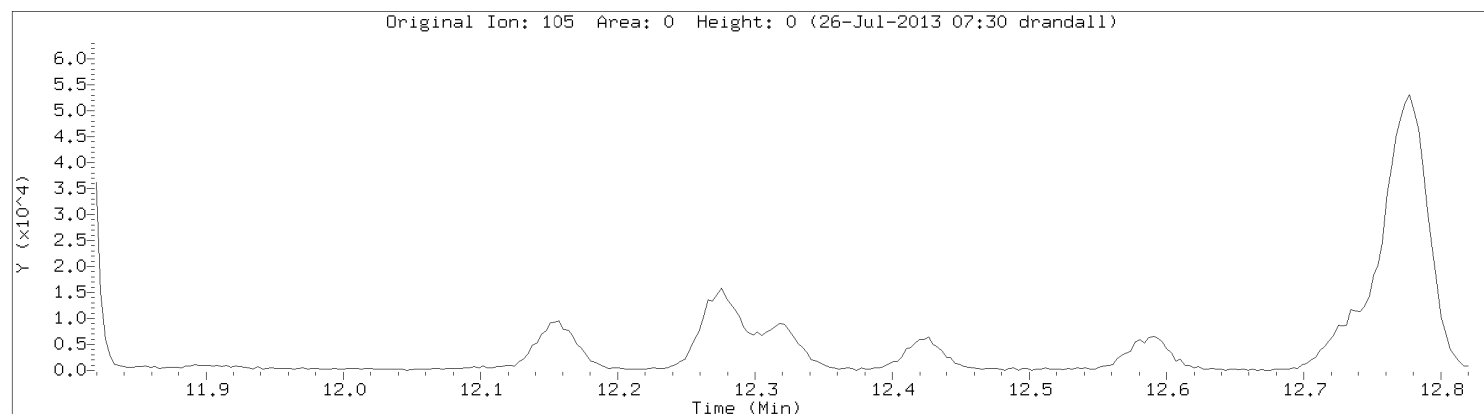
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Instrument: 10airD.i
Lab Sample ID: 10236207016

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

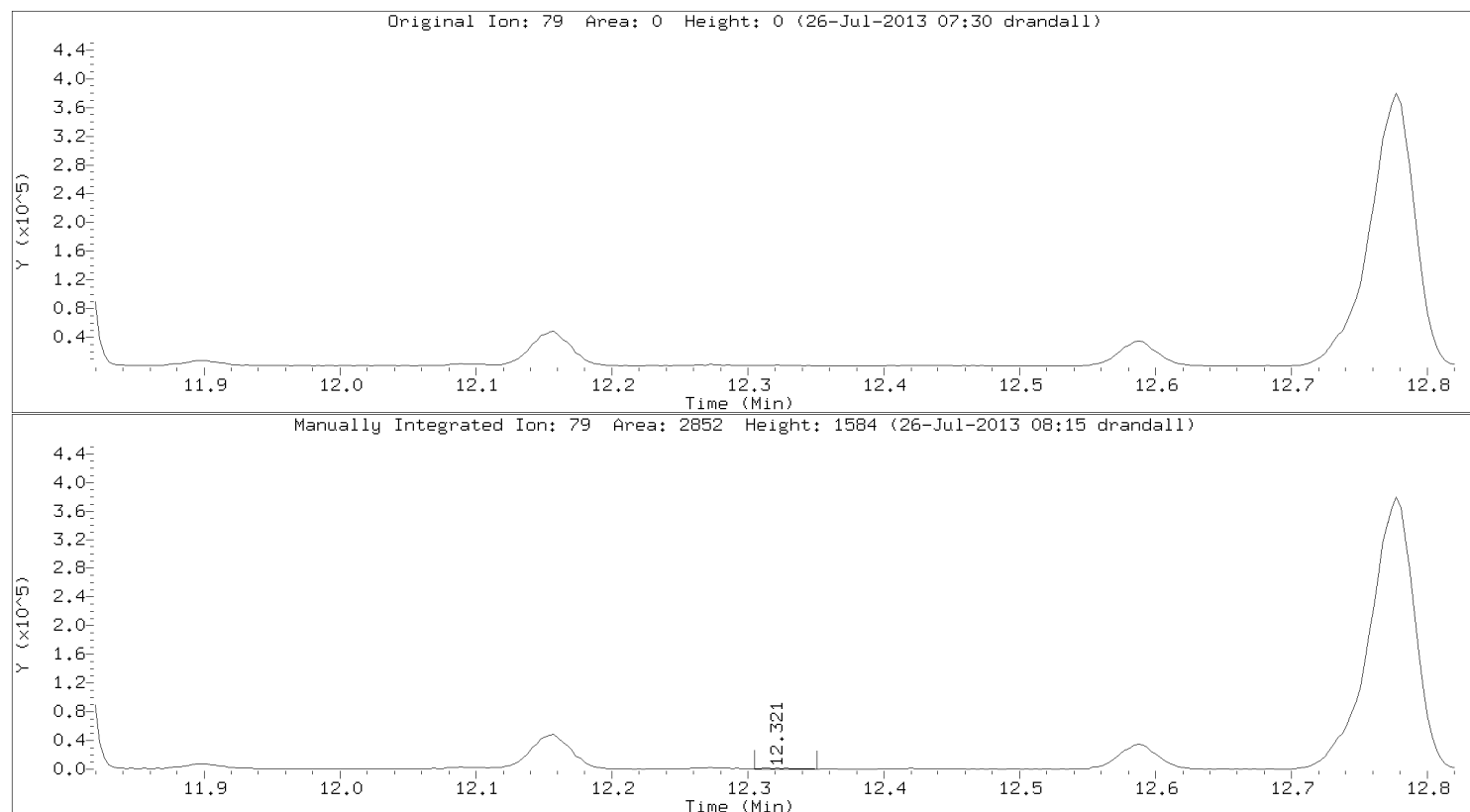


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Lab Sample ID: 10236207016

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

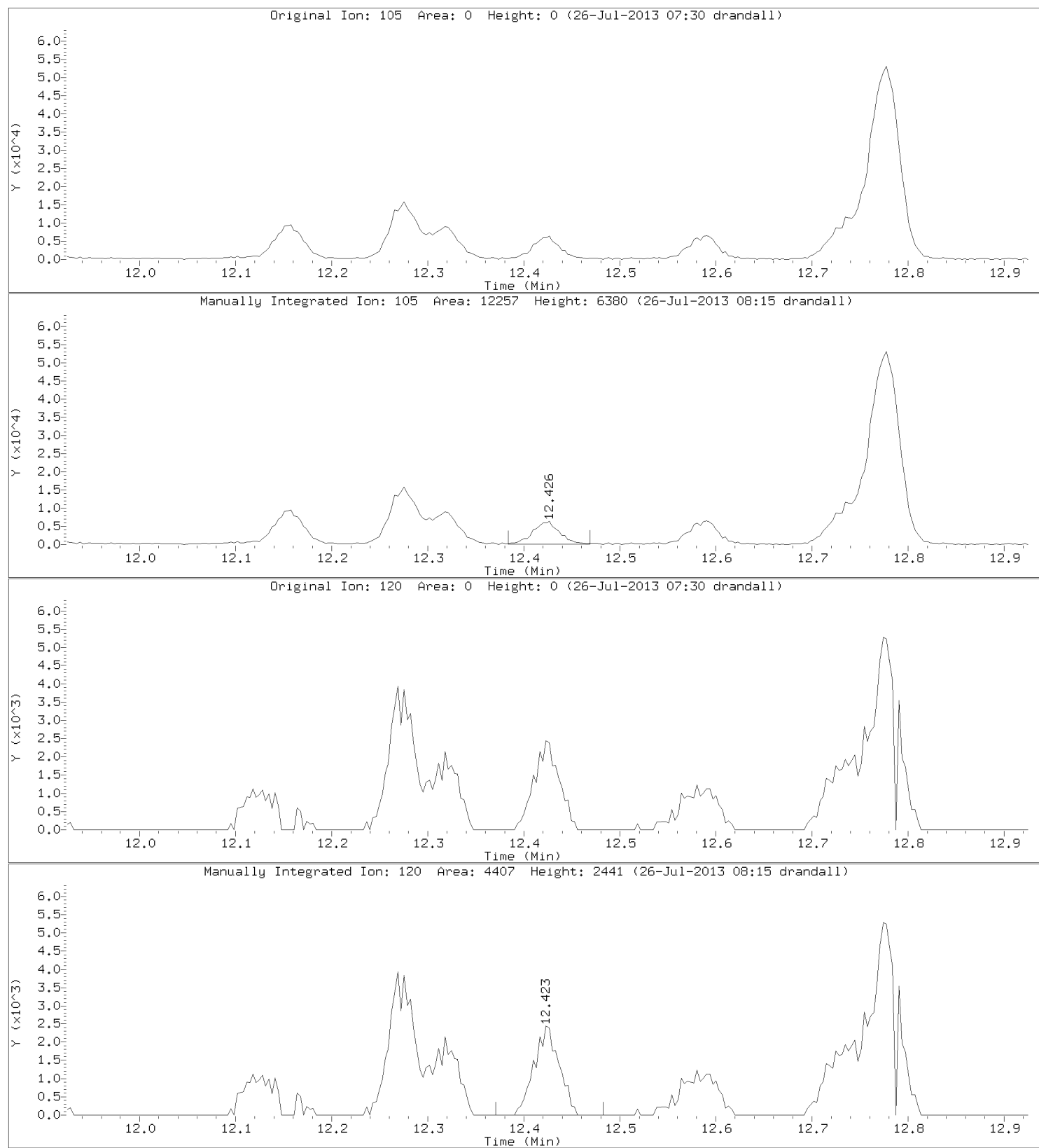


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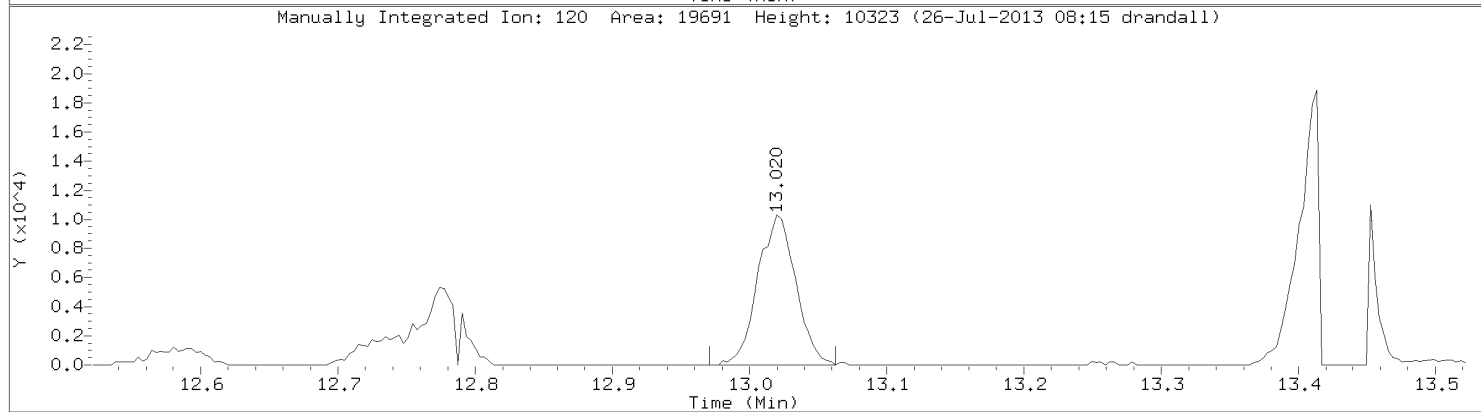
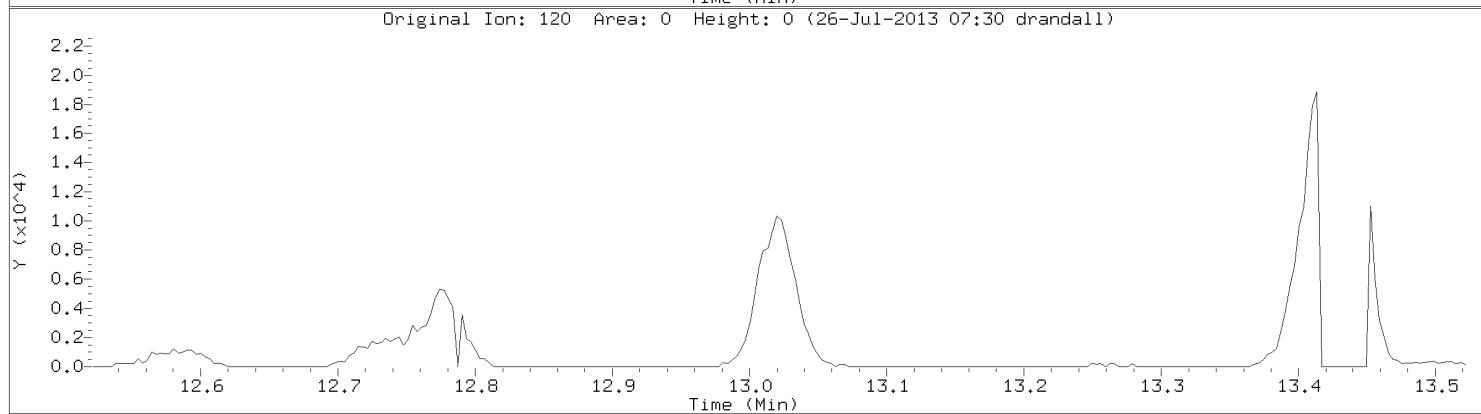
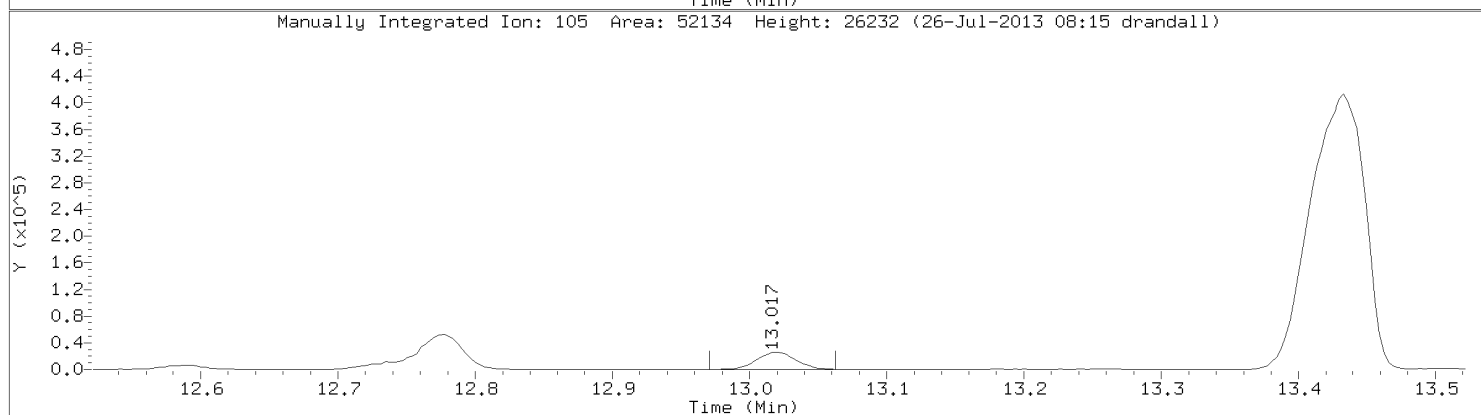
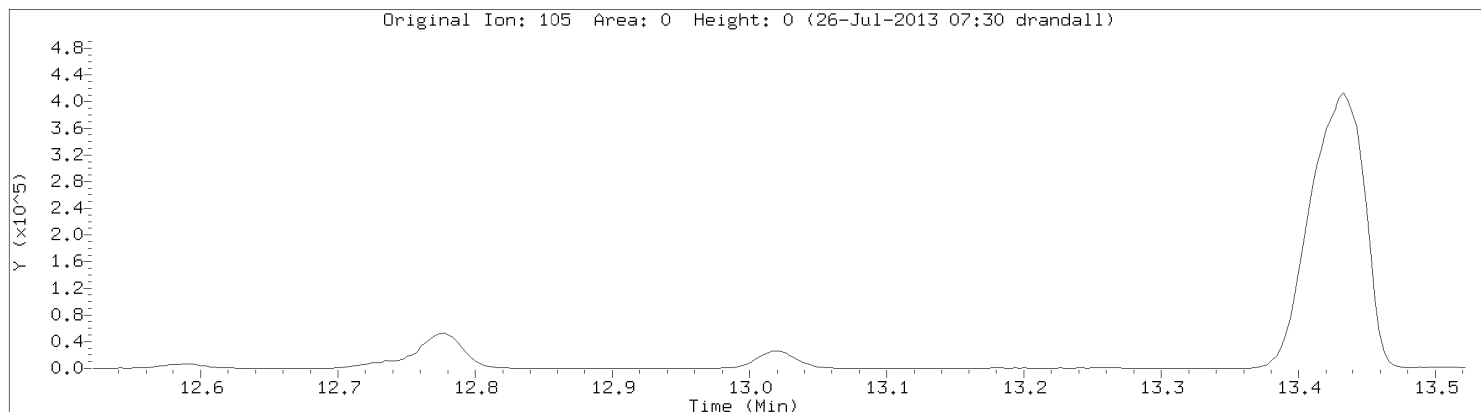
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Instrument: 10airD.i
Lab Sample ID: 10236207016

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



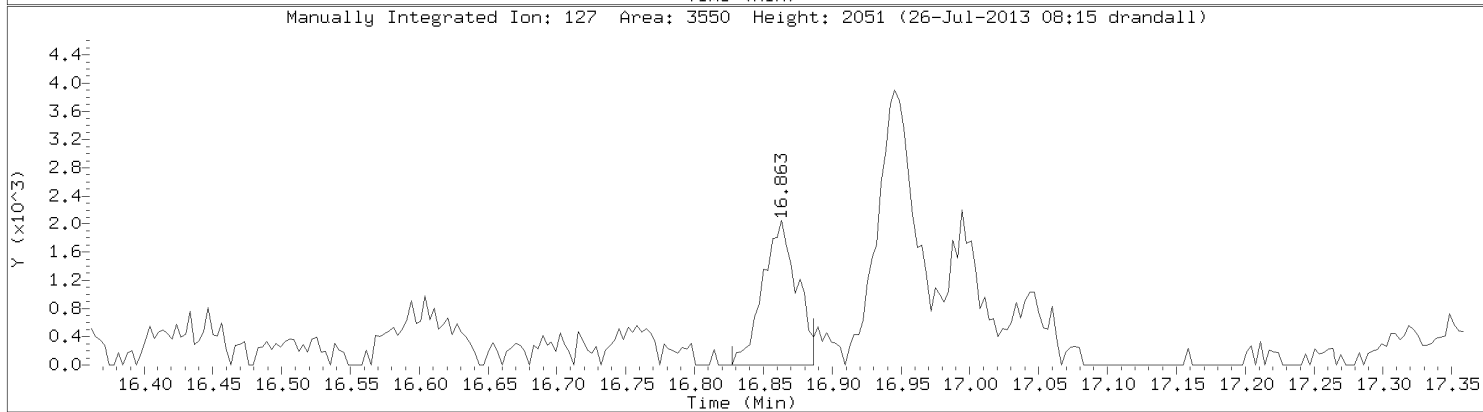
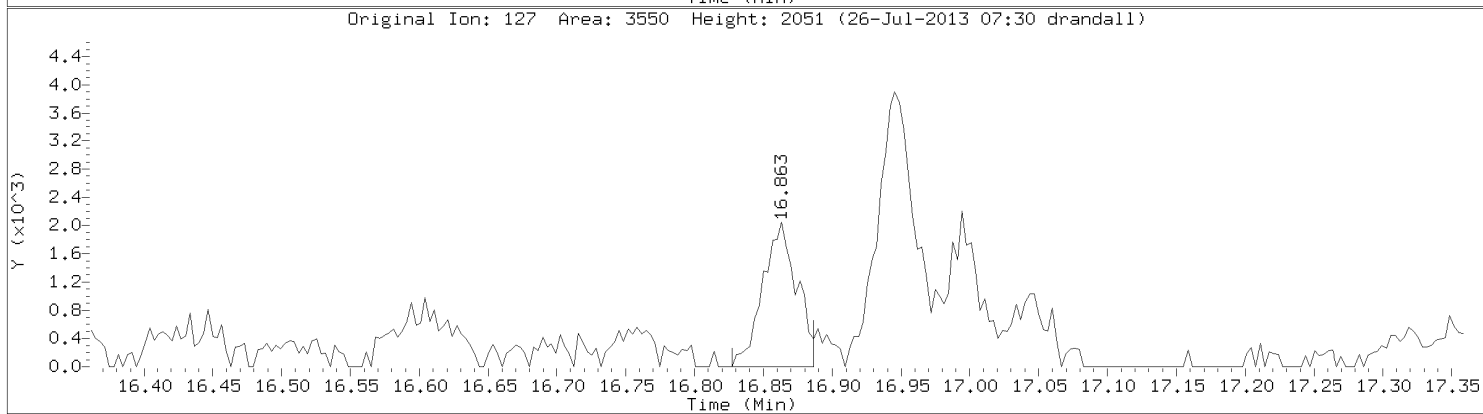
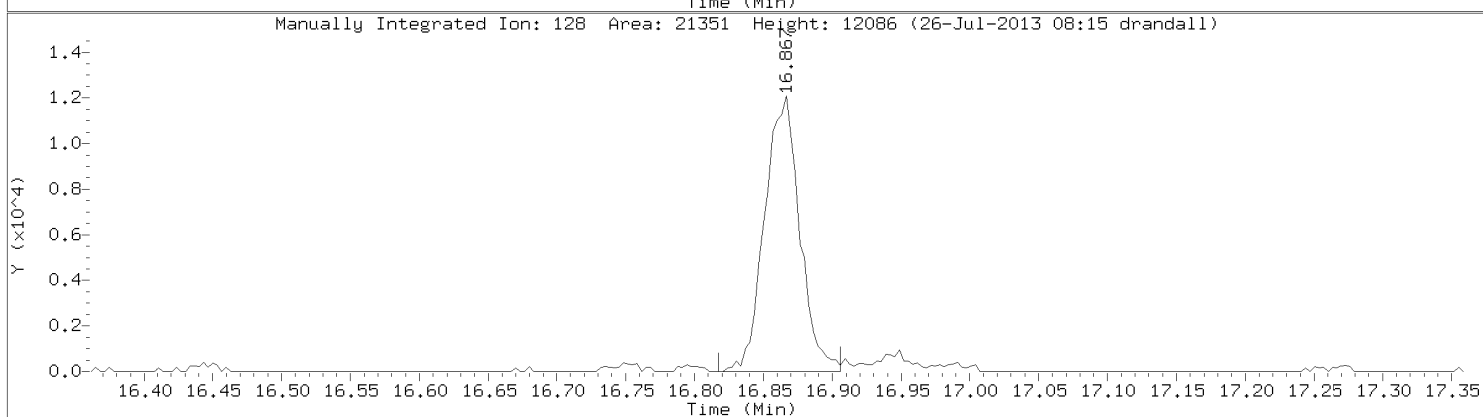
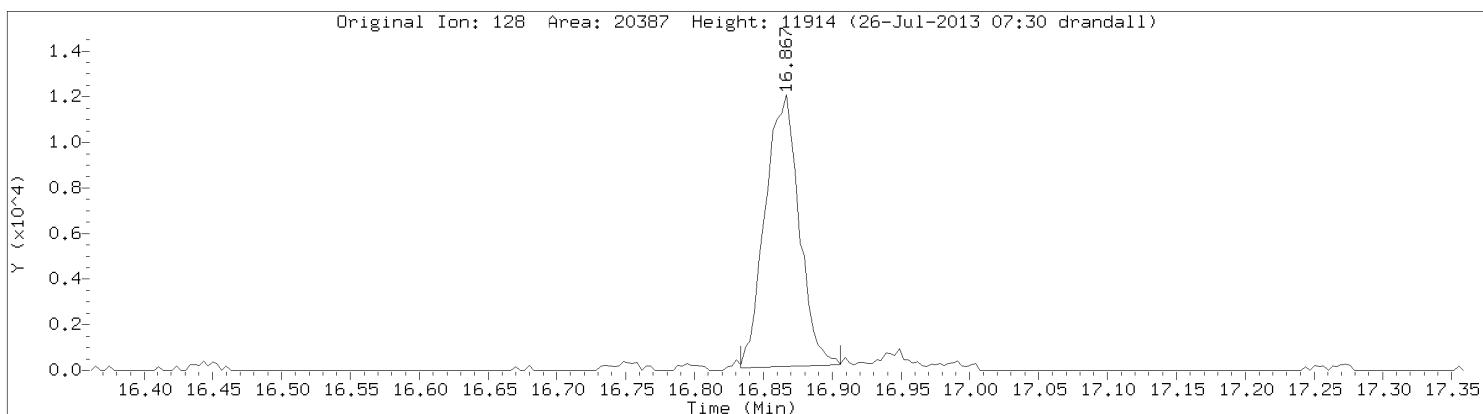
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Injection Date: 26-JUL-2013 00:30
Instrument: 10airD.i
Lab Sample ID: 10236207016

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



Data File: \\192.168.10.12\chem\10airD.i\072513.b\20624.d
Injection Date: 26-JUL-2013 00:30
Instrument: 10airD.i
Lab Sample ID: 10236207016

Compound: Naphthalene
CAS Number: 91-20-3



Attachment B.3

Field Data Validation Form

FIELD DATA VALIDATION FORM

Site/Event: Site A Soil Vapor Investigation	
Sample Collection Date(s): July 22-23, 2013	
Matrix: Air	
Field Sampler(s): Ryan Lefers	
Date Reviewed: August 6, 2013	Reviewed By: Heather Libby

Item No.	Item/Question	QAPP Requirements Met (yes/no)? ⁽¹⁾
1	The sampler's training documentation on file?	Yes
2	All required samples were collected?	Yes
3	All required analyses/analytes were requested?	Yes
4	Chain of Custody filled out in accordance with SOP F-1?	Yes
5	Field notes/documentation covers the required elements in SOP F-1?	Yes
6	Batch Certificate (bottle cleanliness) was obtained?	Yes
7	Sampling methods followed SOPs F-1?	Yes
8	Equipment decontamination followed SOP F-2?	Yes
9	Field duplicates were collected at required frequency?	Yes
10	Samples were properly delivered to the laboratory?	Yes
11	Sampling deviations/corrective action (if any) documented?	Yes
12	Wenck's copy of Chain of Custody and other field documentation properly filed?	Yes

(1) If the QAPP requirements were not met for any item, list the item number(s) below and provide additional explanation.

Item No.	Comments
11	No sampling deviations occurred.

Attachment B.4

Analytical Data Validation Report

DIANE SHORT & ASSOCIATES, INC. _____

1978 S. Garrison St. # 114
Lakewood CO 80227
303:271-9642 Fax 988-4027
dsa7cbc@eazy.net

DATA VALIDATION FORM FOR ORGANICS

SDG: 10236207

PROJECT: Twin Cities Army Ammunition Plant, Site A Soil Gas Sampling, Wenck Associates

LABORATORY: Pace Analytical, Minneapolis MN

SAMPLE MATRIX: Air

SAMPLING DATE: 07/2013

NO. OF SAMPLES: 16 air canister (2 field duplicates)

ANALYSES REQUESTED: EPA TO-15

SAMPLE NUMBERS: See associated pdf for sample IDs

DATA REVIEWER: Diane Short

QA REVIEWER: Diane Short and Associates Inc. INITIALS/DATE: DLS 8/29/13

Telephone Logs included Yes _____ No X

Contractual Violations Yes _____ No X

Comments:

I. DELIVERABLES

All deliverables were present as specified in the QAPP.

Yes No

The following are noted for clarification:

Per the SOW, this is a validation review for 7 project-specific compounds. Data were submitted for the analysis of sixteen (16) volatile samples per Method TO-15. There was no field blank identified nor required for this event. Hard copy data were not submitted, but the full package was provided as pdf.

II. ANALYTICAL REPORT FORMS

A. The Analytical Report or Data Sheets are present and complete for all requested analyses.

Yes No

B. Holding Times

The required holding times were met for all analyses (time of sample receipt to analysis).

Yes No

The holding time for air canisters is 28 days.

C. Chain of Custody (COC)

1. Chain of Custody (COC) forms were reviewed and all fields were complete, signatures were present and cross outs were clean and initialed.

Yes No

The laboratory noted that Sample 14 was labeled SG072213 (the rest of the note was not legible). The project manager was contacted and the correct ID was SG072214.

2. Samples were received at the required temperature and preservation.

Yes No

3. Canister Pressure

Canister pressures were measured and recorded for initial vacuum check, initial field vacuum, final field reading, lab initial pressure and final pressure.

Yes No

All readings met the limits or exceptions were noted and pressure corrected

Yes No

III. INSTRUMENT CALIBRATION - GC/MS

A. Initial Calibration

1. The Relative Response Factor (RRF) and average RRF for all target compounds met the QAPP or method criteria. The current 2007 Validation Guidance requires a Response Factor (RF) of > 0.05 for all compounds. The method allows for lower RF (0.01) for poor responders if the detection limits are appropriately elevated to adjust for instrument sensitivity. The method criteria will be applied.

Yes No N/A

Client compounds meet the updated criteria. The full VOA list was submitted and reviewed to find the client compounds.

2. The relative standard deviation (RSD) for all compounds in the standard was less than 30% (with an allowance for up to 40% RSD for the poor responders). Per the method, a correlation coefficient, r, of > 0.99 is also acceptable for compounds not meeting a % RSD of < 20%.

Yes No N/A

There are routinely no poor responders for air data as there is not purge.

3. The 12 hour system Performance Check was performed as required in SW-846.

Yes No N/A

B. Continuing Calibration

1. The RRF 50 standard was analyzed at the required frequency, and the QC criteria were met.

Yes No N/A

Client compounds meet the criteria.

2. The percent difference (% D) criterion of $\pm 25.0\%$ for each target compound (with an allowance of 40% for the poor responders per the current validation guidance) was met.

Yes No N/A

IV. GC/MS INSTRUMENT PERFORMANCE CHECK

The BFB performance check was injected once at the beginning of each 12-hour period, and relative abundance criteria for the ions were met.

Yes No N/A

V. INTERNAL STANDARDS

The Internal Standard (IS) area percent (Area %) recoveries were within the required control limits of -50.0 to + 100.0% of the daily calibration standard. The Retention Times were within the required windows.

Yes No N/A

IS Area % recovery summaries were not provided. Recoveries were evaluated per review of the raw data for over 20% of the data.

VI. SURROGATE STANDARDS

A. Surrogate standard spikes were prepared and analyzed with every sample.

Yes No

Three surrogates were reported.

B. The recovery limits were within the required control limits of 75.0 – 125.0% as defined in the QAPP.

Yes No

There was no summary table. Each sample result page was required to be checked.

VII. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples were prepared and analyzed per every 20 samples for every matrix.

Yes No NA

Spikes are not amenable to canister analysis and are not required.

Laboratory duplicates are required and are provided by the laboratory for this SDG,

B. The MS and MSD percent recoveries were within the required control limits of 75.0 – 125.0% as defined in the QAPP.

Yes _____ No _____ NA X

C. The Matrix Spike Duplicate relative percent differences (RPD) were within the required control limit of less than 20.0% as defined in the QAPP.

Yes X No _____

A duplicate analysis from one canister is required and was performed with acceptable results. There were 2 days of analysis and a client sample, SG07221312, was used on one of those days to meet the 1/20 frequency.

VIII. LABORATORY CONTROL SAMPLE

A. Laboratory Control Samples (LCS) were prepared and analyzed at the required frequency.

Yes X No _____

B. The LCS percent recoveries were within the required control limits of 75.0 – 125.0% as defined in the QAPP.

Yes X No _____

IX. BLANKS

A. Method Blanks were prepared and analyzed at the required frequency.

Yes X No _____

This is a nitrogen blank run with each set.

B. No blank contamination was found in the Method Blank.

Yes X No _____

There are no client compounds reported as detected.

C. If Equipment Rinse Blanks, Trip Blanks, or other Field Blanks were identified, no blank contamination was found.

Yes _____ No _____ N/A X

There was no field blank reported or required for this event, per QAPP.

X. FIELD QC

If Field duplicates or Performance Check Compounds were identified, the results were within the guidance limit of < 25% RPD or the % recovery criteria for the project. If values are less than 5 × RL, the water limit is ± RL.

Yes X No _____ N/A _____

There are 2 field duplicate pairs. Both are within limits.

SG07221301 and SG07221302,

SG07231301 and SG07231302

XI. SYSTEM PERFORMANCE

A. The reconstructed ion chromatograms (RIC), chromatograms, tunes and general system performance were acceptable for all instruments and analytical systems.

Yes X No _____ N/A _____

There is a large (injection ?) peak in the chromatograms at about 2.5 minutes. This peak normalized surrogates to about 15% and client peaks as indistinguishable for this data set and the visual chromatogram review cannot be performed.

B. The suggested EQLs for the sample matrices were met.

Yes No N/A

XII. TCL COMPOUNDS

A. The identification was accurate, and all retention times, library spectra and RIC were evaluated for all detected compounds.

Yes No N/A

Per the 10% check of the raw data, sample SG07221301 had numerous peaks as 'tics' which are labeled on the chromatogram but not reported in the quantitation report. As the identified compounds are not part of the client list, no further action was taken. The tetrachloroethene (PCE) is manually integrated as it is at low levels.

Sample SG07221302 had numerous peaks as 'tics' which are labeled on the chromatogram and are reported in the quantitation report. These are predominately gasoline type compounds (medium chain hydrocarbons, BTEX, toluenes, substituted benzenes, naphthalene). As the identified compounds are not part of the client list, no further action was taken. The tetrachloroethene (PCE) is manually integrated as it is at low levels.

All manual integrations are acceptable.

B. Quantitation of representative compounds was checked to determine the accuracy of the calculation algorithm for in each internal standard quantitation set.

Yes No N/A

XIII. TENTATIVELY IDENTIFIED COMPOUNDS

Tentatively Identified Compounds (TIC) were properly identified and met the library identification criteria.

Yes No N/A

XIV. OVERALL ASSESSMENT OF THE CASE

The laboratory has complied with the requested method. Data are fully usable and no qualifiers have been applied.

Deliverables

The following are noted for clarification:

Per the SOW, this is a validation review for 7 project-specific compounds. Data were submitted for the analysis of sixteen (16) volatile samples per Method TO-15. There was no field blank identified. Hard copy data were not submitted, but the full package was provided as pdf.

Chain of Custody

The laboratory noted that Sample 14 was labeled SG072213 (the rest of the note was not legible). The project manager was contacted and the correct ID was SG072214.

Summary of Samples and QC Results

Site A - Soil Gas Sampling

<u>Site ID</u>	<u>Collected</u>	<u>Workorder</u>	<u>Matrix</u>
SG07221301	7/22/2013	10236207	Air
SG07221302 (DUP)	7/22/2013	10236207	Air
SG07221303	7/22/2013	10236207	Air
SG07221304	7/22/2013	10236207	Air
SG07221305	7/22/2013	10236207	Air
SG07221306	7/22/2013	10236207	Air
SG07221307	7/22/2013	10236207	Air
SG07221308	7/22/2013	10236207	Air
SG07221309	7/22/2013	10236207	Air
SG07221310	7/22/2013	10236207	Air
SG07221311	7/22/2013	10236207	Air
SG07221312	7/22/2013	10236207	Air
SG07221313	7/22/2013	10236207	Air
SG07221314	7/22/2013	10236207	Air
SG07231301	7/23/2013	10236207	Air
SG07231302 (DUP)	7/23/2013	10236207	Air

RL and MDL (ug/m3):

Analyte	RL
1,1-Dichloroethene	1.2-1.6
1,2-Dichloroethane	0.59-0.82
Chloroform	1.4-2.0
cis-1,2-Dichloroethene	1.2-1.6
Tetrachloroethene	0.99-1.4
Trichloroethene	0.79-1.1
Vinyl Chloride	0.37-0.52

(RL varies slightly from sample to sample)

Laboratory Control Sample (LCS):

Analyte	Recovery	QC Limits
1,1-Dichloroethene	96%	75% - 125%
1,2-Dichloroethane	104%	75% - 125%
Chloroform	102%	75% - 125%
cis-1,2-Dichloroethene	99%	75% - 125%
Tetrachloroethene	99%	75% - 125%
Trichloroethene	93%	75% - 125%
Vinyl Chloride	96%	75% - 125%

Laboratory Control Sample (LCS):

Analyte	Recovery	QC Limits
1,1-Dichloroethene	91%	75% - 125%
1,2-Dichloroethane	100%	75% - 125%
Chloroform	100%	75% - 125%
cis-1,2-Dichloroethene	97%	75% - 125%
Tetrachloroethene	104%	75% - 125%
Trichloroethene	95%	75% - 125%
Vinyl Chloride	90%	75% - 125%

Field Duplicate Results:

Analyte	Date	Original <i>SG07221301</i>	Duplicate	Calc'd RPD	RPD Goal
1,1-Dichloroethene	7/22/2013	ND	ND	NA	±4xRL
1,2-Dichloroethane	7/22/2013	ND	ND	NA	±4xRL
Chloroform	7/22/2013	ND	ND	NA	±4xRL
cis-1,2-Dichloroethene	7/22/2013	ND	ND	NA	±4xRL
Tetrachloroethene	7/22/2013	5.4	4.7	13.9%	25%
Trichloroethene	7/22/2013	ND	ND	NA	±4xRL
Vinyl Chloride	7/22/2013	ND	ND	NA	±4xRL

Analyte	Date	Original <i>SG07231301</i>	Duplicate	Calc'd RPD	RPD Goal
1,1-Dichloroethene	7/23/2013	ND	ND	NA	±4xRL
1,2-Dichloroethane	7/23/2013	ND	ND	NA	±4xRL
Chloroform	7/23/2013	ND	ND	NA	±4xRL
cis-1,2-Dichloroethene	7/23/2013	ND	ND	NA	±4xRL
Tetrachloroethene	7/23/2013	4.3	4.4	2.3%	25%
Trichloroethene	7/23/2013	ND	ND	NA	±4xRL
Vinyl Chloride	7/23/2013	ND	ND	NA	±4xRL