FINAL REPORT
CARTER CARBURETOR SITE
SAINT LOUIS, MISSOURI
NOVEMBER 2008

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1.0 INTRODUCTION

The Environmental Protection Agency/Environmental Response Team (EPA/ERT) issued Work Assignment (WA) Number 0-362, Carter Carburetor Site (Site) in Saint Louis, Missouri (St. Louis, MO), to Lockheed Martin under the Response Engineering and Analytical Contract (REAC). The purpose of this WA was to assist EPA Region VII during the performance of a vapor intrusion study. The vapor intrusion investigation will provide data that will help EPA Region VII personnel to determine if there is a potential for indoor air impact associated with the subsurface plume.

The study was conducted at the Site, which includes one and one half square city blocks in the city of St. Louis, MO. The Site is bounded on the north by Dodier Street, on the east by Grand Boulevard, on the south by St. Louis Avenue and on the west by North Spring Avenue and Hyams Place. At one time, the Site consisted of several multistory, connected manufacturing and warehouse buildings, approximately 480,000 square feet in size, and adjacent lots located in a mixed, urban commercial/residential area. The Site property covers approximately 10 acres. The Site is 80 feet in elevation above the Mississippi River and is not within its 100-year flood plain zone.

ACF Industries, Inc. owned the property from 1956 until April 26, 1985, when the Site property and buildings (also referred to herein as the "Facility") were deeded to the Land Reutilization Authority (LRA) of the City of St. Louis, MO. ACF used the property to manufacture carburetors for use in gasoline and diesel powered equipment. When ACF closed the Facility in 1984, the manufacturing lines were dismantled and most of the equipment was shipped to new locations or sold. At the time the Site property was deeded to LRA, approximately 20 transformers and an undisclosed number of capacitors and switch gears, all of which contained polychlorinated biphenyl (PCB) fluids, remained on site. It is believed the transformers, capacitors, and switch gears were operational and intact at the time of conveyance to LRA. ACF Industries, Inc. became ACF Industries, LLC on May 1, 2003.

Currently, a portion of the Facility is owned by Carter Building, Inc., which has leased several areas of its building to several different businesses including a metal fabrication shop, auto repair shop, a plastics company and storage companies. In the early 1980s, ACF was required by the Industrial Pollution Control Section of the Metropolitan St. Louis Sewer District to monitor and control waste water discharges containing PCBs. ACF instituted physical and procedural controls to reduce PCBs in their waste discharges. A source of the current PCB contamination was PCB-contaminated hydraulic fluid in machinery and equipment used in the Carter Carburetor manufacturing processes at the Facility. Additionally, the Facility had an above ground storage tank (AST) number 8 that contained trichloroethene (TCE). Trichloroethene was discharged from the AST 8 onto the ground and subsequently migrated through the soil column and contaminated the groundwater. The shallow groundwater is contaminated with chlorinated solvents and may have migrated offsite and into the surrounding community.

2.0 ACTIVITIES/METHODOLOGY

REAC personnel mobilized to the Carter Carburetor Site on 15 September 2008. Upon arrival at the Site, all equipment and instruments were prepared for sampling and analytical activities.

The scope of work included soil gas and ambient air sampling and analysis for volatile organic compounds (VOCs). On-site activities included installation of soil gas probes, collection of samples, and analysis. The VOCs of interest for both on-site and subcontracted laboratories were vinyl chloride, 1,1-dichloroethene, trans-1,2-dichloroethene, cis-1,2-dichloroethene, trichloroethene, and tetrachloroethene.

2.1 Soil Gas Probe Installation and Sampling

REAC personnel installed sub-slab soil gas probes in the Carter Carburetor building and in the empty lot (Figures 1 to 6) across N. Spring Avenue from the building. A total of 79 sub-slab soil gas probes were installed during the week of 08 September 2008 in locations designated by the Work Assignment Manager (WAM) in accordance with REAC Standard Operating Procedure

(SOP) #2082, *Construction and Installation of Permanent Sub-Slab Soil Gas Wells*. Each probe was installed flush with the slab. A three-way stainless steel valve was attached for sampling on the facility's interior sampling ports. All probes were installed one to seven days prior to initiation of sub-slab sampling. After sampling was completed, each probe was capped with a removable Teflon® fitting.

During the sampling events of 16 September and 17 September 2008, a total of 93 soil gas grab samples were collected in 1-liter (L) Tedlar® bags. Re-sampling of several locations was required due to integrity failure of some Tedlar® bags and re-analysis due to dilution (Table1). All samples were collected into a 1-L Tedlar® bag by means of a vacuum box attached to the well tubing extending from the three-way valve or the sub-slab probe. All soil gas samples collected in Tedlar® bags were collected prior to the collection of 24-hour SUMMA® canister samples.

REAC personnel, in accordance with REAC SOP #2102, *Tedlar® Bag Sampling*, collected and transported these samples to the mobile laboratory for on-site VOC analysis by a gas chromatograph/mass spectrometer (GC/MS). The chain of custody (COC) records for these samples was relinquished to the analyst at the end of the sampling events.

On 17 September 2008 to 18 September 2008, SUMMA® canisters were installed at 27 sub-slab probe locations after samples were collected in Tedlar® bags (Table 2). Soil gas samples were collected in SUMMA® canisters over a 24-hour period. Each canister was equipped with a restrictive orifice set at an approximate flow rate of 3.4 milliliters per minute (mL/min) to collect between four to five liters of sample during the 24-hour period. Sample collection was stopped before each canister returned to ambient pressure. Sampling was conducted in accordance with REAC SOP #1704, *SUMMA® Canister Sampling*. Additionally, two 24-hour ambient air samples were also collected. All SUMMA® samples collected and one "Trip Blank" SUMMA® canister were shipped via COC to a subcontracted laboratory for target VOC analysis.

2.2 Analysis

On 16 September and 17 September 2008, samples collected in 1-L Tedlar® bags were analyzed on-site using an Agilent® GC/MS. All samples were analyzed in accordance with draft REAC SOP #1741, *Field Analysis of VOCs in Gaseous Phase Samples by GC/MSD Loop Injection.*

The GC/MS analytical report indicates that the data (i.e., Tedlar® bag data) is screening in nature. Usability of screening data is assessed by confirming the quantitation and identification of each compound, verifying that the calibration curve meets the criteria in the SOP, and confirming the reported quantitation limits. The complete report can be found in Appendix A.

On 18 September 2008, after the 24-hour sampling period had elapsed, all canisters were collected, properly documented, and shipped to a subcontracted laboratory for target VOC analysis. Samples were analyzed in accordance with EPA Toxic Organic Method TO-15, *Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS).*

Usability of definitive data (i.e., SUMMA® canister data) is evaluated by an independent group other than those who conducted the analysis. Data qualifiers and reasons for qualification are outlined in the case narrative of the analytical report. The complete analytical report can be found in Appendix B. All chain of custody records and sampling worksheets are located in Appendix C.

3.0 RESULTS

All results in this report are reported to two significant figures. VOC samples collected in Tedlar® bags were analyzed on-site in the mobile laboratory by GC/MS, while those collected in SUMMA® canisters were sent to a subcontracted laboratory for analysis. All sample locations are depicted in Figures 1 through

6 along with results detected for all analyzed samples.

Summarized in Table 3 is a comparison of VOC results detected in the sub-slab soil gas samples from the two sampling media: Tedlar® bags and SUMMA® canisters. The highest concentration of the following compounds were detected at sample location B8-SG (B8-24-SG); 1,1-dichloroethene, 17 part per billion by volume (ppbv) in the Tedlar® bag and 11 ppbv in the SUMMA® canister; trans-1,2-dichloroethene, 300 ppbv in the Tedlar® bag and 180 ppbv in the SUMMA® canister; and cis-1,2-dichloroethene, 19,000 ppbv in the Tedlar® bag and 10,000 ppbv in the SUMMA® canister. The highest concentration of trichloroethene detected in the Tedlar® bag sample was 220,000D ppbv at sample location, E9-SG, and 110,000 ppbv in the SUMMA® canister at sample location B8-24-SG. The highest concentration of tetrachloroethene detected in the Tedlar® bag sample was 1,400 ppbv at sample location, E9-SG, and 850 ppbv in the SUMMA® canister at sample location D10-24-SG. The VOC QC analyses are presented in Table 4.

A complete discussion of all the GC/MS data is presented in Appendix A, Tedlar® Bag GC/MS Analytical Report; and a complete discussion of the SUMMA® canister data can be found in Appendix B, SUMMA® Canisters Analytical Report. All chain of custody records and sampling worksheets are located in Appendix C.

TABLES

Table 1
Summary of Tedlar® Bag Sampling Event
Carter Carburetor Site
Saint Louis, Missouri
November 2008

Sample #	Location	Sub Location	Sample Date	Sample Time	Remarks
51350	F4-SG	SS	9/16/2008	8:58	
51351	G4-SG	SS	9/16/2008	9:04	
51352	H4-SG	SS	9/16/2008	9:08	
51353	H3-SG	SS	9/16/2008	9:14	
51354	G3-SG	SS	9/16/2008	9:21	
51355	H2-SG	SS	9/16/2008	9:28	
51356	H1-SG	SS	9/16/2008	9:35	
51357	G1-SG	SS	9/16/2008	9:42	
51358	G2-SG	SS	9/16/2008	9:48	
51359	F1-SG	SS	9/16/2008	9:53	
51360	F2-SG	SS	9/16/2008	9:58	
51361	F3-SG	SS	9/16/2008	10:04	Re-sampled on 9/17/08. No analysis on this sample.
51362	A1-SG	SS	9/16/2008	10:36	
51363	A2-SG	SS	9/16/2008	10:41	
51364	B2-SG	SS	9/16/2008	10:46	
51365	B3-SG	SS	9/16/2008	11:43	Re-sampled due to bag failure. SKC bag lot #27919 many bag failures.
51366	A3-SG	SS	9/16/2008	11:00	
51367	A4-SG	SS	9/16/2008	14:14	Re-sampled due to bag failure. SKC bag lot #27919 many bag failures.
51368	C1-SG	SS	9/16/2008	11:17	
51369	C3-SG	SS	9/16/2008	11:25	
51370	E1-SG	SS	9/16/2008	12:07	Re-sampled due to bag failure. SKC bag lot #27919 many bag failures.
51371	D1-SG	SS	9/16/2008	12:15	Re-sampled due to bag failure. SKC bag lot #27919 many bag failures.
51372	D2-SG	SS	9/16/2008	11:58	
51373	E3-SG	SS	9/16/2008	12:25	
51374	D3-SG	SS	9/16/2008	14:21	Re-sampled due to bag failure. SKC bag lot #27919 many bag failures.
51375	E4-SG	SS	9/16/2008	12:43	
51376	D5-SG	SS	9/16/2008	14:28	
51377	C6-SG	SS	9/16/2008	14:33	
51378	C5-SG	SS	9/16/2008	14:43	wetter today (top of slab)
51379	C7-SG	SS	9/16/2008	14:48	
51380	B7-SG	SS	9/16/2008	14:54	
51381	B8-SG	SS	9/16/2008	14:57	

Sub-slab (SS) probes were installed approximately the week prior to sampling events.

Table 1 (continued)
Summary of Tedlar® Bag Sampling Event
Carter Carburetor Site
Saint Louis, Missouri
November 2008

Sample #	Location	Sub Location	Sample Date	Sample Time	Remarks
51382	E6-SG	SS	9/16/2008		NO SAMPLE
51383	B4-SG	SS	9/16/2008	15:33	
51384	C4-SG	SS	9/16/2008	15:36	
51385	D4-SG	SS	9/16/2008		NO SAMPLE
51386	B5-SG	SS	9/16/2008	15:44	
51387	A5-SG	SS	9/16/2008	16:01	Re-sampled on 9/17/08. No analysis on this sample.
51388	A6-SG	SS	9/16/2008	15:55	Re-sampled on 9/17/08. No analysis on this sample.
51389	A8-SG	SS	9/16/2008	16:11	Re-sampled on 9/17/08. No analysis on this sample.
51390	A9-SG	SS	9/16/2008	16:15	Re-sampled on 9/17/08. No analysis on this sample.
51391	B8-SG	SS	9/16/2008	16:20	Collected 2nd sample by accident. Not a sample, no analysis required.
51392	C8-SG	SS	9/16/2008	8:58	
51393	C9-SG	SS	9/16/2008	16:32	Re-sampled on 9/17/08. No analysis on this sample.
51394	B10-SG	SS	9/16/2008	16:41	
51395	B11-SG	SS	9/16/2008	16:45	
51396	A10-SG	SS	9/16/2008	16:50	Re-sampled on 9/17/08. No analysis on this sample.
51397	B12-SG	SS	9/16/2008	16:55	Re-sampled on 9/17/08. No analysis on this sample.
51398	C11-SG	SS	9/16/2008	17:06	
51399	C12-SG	SS	9/16/2008	17:11	
51400	C10-SG	SS	9/16/2008	17:14	
51401	D12-SG	SS	9/16/2008	17:24	
51402	E12-SG	SS	9/16/2008	17:26	
51403	E11-SG	SS	9/16/2008	17:29	
51404	D11-SG	SS	9/16/2008		NO SAMPLE
51405	D10-SG	SS	9/16/2008	17:38	
51406	E10-SG	SS	9/16/2008	18:05	Re-sampled due to bag failure. SKC bag lot #27919 many bag failures.
51407	E9-SG	SS	9/16/2008	17:45	
51408	D9-SG	SS	9/16/2008		NO SAMPLE
51409	D8-SG	SS	9/16/2008	17:52	
51410	E8-SG	SS	9/16/2008	17:54	
51411	E7-SG	SS	9/16/2008	17:58	
51412	D7-SG	SS	9/16/2008	18:01	

Sub-slab (SS) probes were installed approximately the week prior to sampling events.

Table 1 (continued)
Summary of Tedlar® Bag Sampling Event
Carter Carburetor Site
Saint Louis, Missouri
November 2008

Sample #	Location	Sub Location	Sample Date	Sample Time	Remarks
51413	F3-SG	SS	9/17/2008	10:15	
51414	A5-SG	SS	9/17/2008	10:38	
51415	A6-SG	SS	9/17/2008	10:42	
51416	A7-SG	SS	9/17/2008	10:47	
51417	A8-SG	SS	9/17/2008	10:51	
51418	A9-SG	SS	9/17/2008	10:56	
51419	A10-SG	SS	9/17/2008	11:01	
51420	B12-SG	SS	9/17/2008	11:07	
51421	C9-SG	SS	9/17/2008	11:13	
51422	B9-SG	SS	9/17/2008	11:23	Previously wet, water around valve. Very hard to draw sample. (SLOW)
51423	B8-SG	SS	9/17/2008	11:27	
51424	B6-SG	SS	9/17/2008	1133	
51425	D6-SG	SS	9/17/2008	11:44	
51426	E5-SG	SS	9/17/2008	11:49	
51427	E9-SG	SS	9/17/2008	11:55	
51428	E2-SG	SS	9/17/2008		NO SAMPLE
51429	C2-SG	SS	9/17/2008	12:15	Still very wet – Moved lots of water away from hole.
51430	LA1-SG	SS	9/17/2008	13:51	
51431	LA2-SG	SS	9/17/2008	13:59	
51432	LA3-SG	SS	9/17/2008	14:04	
51433	LA4-SG	SS	9/17/2008	14:12	
51434	LA5-SG	SS	9/17/2008	14:17	
51435	LB4-SG	SS	9/17/2008	14:24	
51436	LB3-SG	SS	9/17/2008	14:32	
51437	LB2-SG	SS	9/17/2008	14:37	
51438	LB1-SG	SS	9/17/2008	14:43	
51439	LC1-SG	SS	9/17/2008		NO SAMPLE
51440	LC2-SG	SS	9/17/2008	14:57	
51441	LC3-SG	SS	9/17/2008	15:05	
51442	LC4-SG	SS	9/17/2008	15:14	

Sub-slab (SS) probes were installed approximately the week prior to sampling events.

Table 2
Summary of SUMMA® Canister Sampling Event
Carter Carburetor Site
Saint Louis, Missouri
November 2008

Sample #	Location	Sub Location	Start Date	Start Time	Stop Date	Stop Time	Remarks
0-362-0001	F3-24-SG	SS	9/17/2008	2:56:00 PM	9/18/2008	2:42:00 PM	
0-362-0002	F2-24-SG	SS	9/17/2008	2:59:00 PM	9/18/2008	2:47:00 PM	
0-362-0003	F1-24-SG	SS	9/17/2008	3:01:00 PM	9/18/2008	2:50:00 PM	
0-362-0004	G2-24-SG	SS	9/17/2008	3:03:00 PM	9/18/2008	2:53:00 PM	
0-362-0005	H1-24-SG	SS	9/17/2008	3:05:00 PM	9/18/2008	2:56:00 PM	
0-362-0006	H4-24-SG	SS	9/17/2008	3:08:00 PM	9/18/2008	2:59:00 PM	
0-362-0007	E11-24-SG	SS	9/17/2008	3:25:00 PM	9/18/2008	3:10:00 PM	
0-362-0008	E10-24-SG	SS	9/17/2008	3:29:00 PM	9/18/2008	3:11:00 PM	
0-362-0009	D10-24-SG	SS	9/17/2008	3:31:00 PM	9/18/2008	3:38:00 PM	
0-362-0010	E9-24-SG	SS	9/17/2008	3:34:00 PM	9/18/2008	3:13:00 PM	
0-362-0011	B2-24-SG	SS	9/17/2008	3:49:00 PM	9/18/2008	4:02:00 PM	
0-362-0012	A2-24-SG	SS	9/17/2008	3:50:00 PM	9/18/2008	4:11:00 PM	
0-362-0013	C5-24-SG	SS	9/17/2008	3:56:00 PM	9/18/2008	3:55:00 PM	
0-362-0014	Ambient	Courtyard (Indoor)	9/17/2008	4:01:00 PM	9/18/2008	4:15:00 PM	
0-362-0015	C8-24-SG	SS	9/17/2008	4:03:00 PM	9/18/2008	3:51:00 PM	
0-362-0016	E7-24-SG	SS	9/17/2008	3:37:00 PM	9/18/2008	3:17:00 PM	
0-362-0017	D7-24-SG	SS	9/17/2008	3:38:00 PM	9/18/2008	3:32:00 PM	
0-362-0018	E3-24-SG	SS	9/17/2008	3:43:00 PM	9/18/2008	3:22:00 PM	
0-362-0019	D1-24-SG	SS	9/17/2008	3:45:00 PM	9/18/2008	3:27:00 PM	
0-362-0020	C2-24-SG	SS	9/17/2008	3:48:00 PM	9/18/2008	4:02:00 PM	
0-362-0021	B8-24-SG	SS	9/17/2008	4:05:00 PM	9/18/2008	4:16:00 PM	
0-362-0022	A8-24-SG	SS	9/17/2008	4:07:00 PM	9/18/2008	4:46:00 PM	
0-362-0023	A5-24-SG	SS	9/17/2008	4:09:00 PM	9/18/2008	4:44:00 PM	
0-362-0024	B5-24-SG	SS	9/17/2008	4:11:00 PM	9/18/2008	4:00:00 PM	
0-362-0025	D4-24-SG	SS	9/17/2008	4:13:00 PM	9/18/2008	4:21:00 PM	
0-362-0026	B11-24-SG	SS	9/17/2008	4:21:00 PM	9/18/2008	4:37:00 PM	
0-362-0027	C11-24-SG	SS	9/17/2008	4:22:00 PM	9/18/2008	3:47:00 PM	
0-362-0028	E12-24-SG	SS	9/17/2008	4:24:00 PM	9/18/2008	3:06:00 PM	
0-362-0029	Ambient	roof	9/17/2008	4:31:00 PM	9/18/2008	4:55:00 PM	
0-362-0030	Trip		9/17/2008	4:31:00 PM	9/18/2008	5:00:00 PM	

Sub-slab (SS) probes were installed approximately the week prior to sampling events.

Table 3
Summary Results for VOC Analyses (Tedlar® and SUMMA®)
Carter Carburetor Site
Saint Louis, Missouri
November 2008

Sample Location:	H4-SG		H4-24-SG		H1-SG		H1-24-SG	
Media:	Tedlar®		SUMMA®		Tedlar®		SUMMA®	
Date Sampled:	16 Sep 2008		18 Sep 2008		16 Sep 2008		18 Sep 2008	
Compound	Results (ppbv)	LOQ	Results (ppbv)	RL	Results (ppbv)	LOQ	Results (ppbv)	RL
Vinyl Chloride	U	5.0	U	0.050	U	5.0	U	0.050
1,1-Dichloroethene	U	0.50	U	0.050	U	0.50	U	0.050
trans-1,2-Dichloroethene	U	0.50	U	0.050	U	0.50	U	0.050
cis-1,2-Dichloroethene	U	0.50	U	0.050	U	0.50	U	0.050
Trichloroethene	4.4	0.50	2.6	0.050	U	0.50	0.33	0.050
Tetrachloroethene	3.8	0.50	2.4	0.050	U	0.50	0.21	0.050

Sample Location:	G2-SG		G2-24-SG		F1-SG		F1-24-SG	
Media:	Tedlar®		SUMMA®		Tedlar®		SUMMA®	
Date Sampled:	16 Sep 2008		18 Sep 2008		16 Sep 2008		18 Sep 2008	
Compound	Results (ppbv)	LOQ	Results (ppbv)	RL	Results (ppbv)	LOQ	Results (ppbv)	RL
Vinyl Chloride	U	5.0	U	0.10	U	5.0	U	0.050
1,1-Dichloroethene	U	0.50	U	0.10	U	0.50	U	0.050
trans-1,2-Dichloroethene	U	0.50	U	0.10	U	0.50	U	0.050
cis-1,2-Dichloroethene	U	0.50	0.12	0.10	U	0.50	U	0.050
Trichloroethene	1400	0.50	730	10	15	0.50	13	0.050
Tetrachloroethene	2.2	0.50	1.7	0.10	5.2	0.50	4.7	0.050

Results are in part per billion by volume (ppbv)

U = None detected at or above the limit of quantitation (LOQ) or the reporting limit (RL)

Table 3 (continued)
Summary Results for VOC Analyses (Tedlar® and SUMMA®)
Carter Carburetor Site
Saint Louis, Missouri
November 2008

Sample Location:	F2-SG		F2-24-SG		A2-SG		A2-24-SG	
Media:	Tedlar®		SUMMA®		Tedlar®		SUMMA®	
Date Sampled:	16 Sep 2008		18 Sep 2008		16 Sep 2008		18 Sep 2008	
Compound	Results (ppbv)	LOQ	Results (ppbv)	RL	Results (ppbv)	LOQ	Results (ppbv)	RL
Vinyl Chloride	U	5.0	U	0.050	U	5.0	U	0.050
1,1-Dichloroethene	U	0.50	U	0.050	0.92	0.50	U	0.050
trans-1,2-Dichloroethene	U	0.50	0.050	0.050	U	0.50	U	0.050
cis-1,2-Dichloroethene	U	0.50	U	0.050	U	0.50	U	0.050
Trichloroethene	29	0.50	23	0.050	12	0.50	9.7	0.050
Tetrachloroethene	14	0.50	11	0.050	14	0.50	12	0.050

Sample Location:	B2-SG		B2-24-SG		D1-SG		D1-24-SG	
Media:	Tedlar®		SUMMA®		Tedlar®		SUMMA®	
Date Sampled:	16 Sep 2008		18 Sep 2008		16 Sep 2008		18 Sep 2008	
Compound	Results (ppbv)	LOQ	Results (ppbv)	RL	Results (ppbv)	LOQ	Results (ppbv)	RL
Vinyl Chloride	U	5.0	U	0.050	U	5.0	U	2.0
1,1-Dichloroethene	U	0.50	U	0.050	U	0.50	U	2.0
trans-1,2-Dichloroethene	U	0.50	U	0.050	57	0.50	69	2.0
cis-1,2-Dichloroethene	U	0.50	0.050	0.050	50	0.50	63	2.0
Trichloroethene	88	0.50	0.78	0.050	15000 D	5.0	9700	50
Tetrachloroethene	6.3	0.50	0.10	0.050	15	0.50	U	17

Results are in part per billion by volume (ppbv)

U = None detected at or above the limit of quantitation (LOQ) or the reporting limit (RL)

D = Result is from an analysis at a secondary dilution factor

The reported tetrachloroethene results in several diluted runs for sample location D1-24-SG were identical. The result is probably and artifact and is qualified non-detect (U); the RL was raised to the reported value.

Table 3 (continued)
Summary Results for VOC Analyses (Tedlar® and SUMMA®)
Carter Carburetor Site
Saint Louis, Missouri
November 2008

Sample Location:	E3-SG		E3-24-SG		C5-SG		C5-24-SG	
Media:	Tedlar®		SUMMA®		Tedlar®		SUMMA®	
Date Sampled:	16 Sep 2008		18 Sep 2008		16 Sep 2008		18Sep 2008	
Compound	Results (ppbv)	LOQ	Results (ppbv)	RL	Results (ppbv)	LOQ	Results (ppbv)	RL
Vinyl Chloride	U	5.0	U	0.25	U	5.0	U	2.0
1,1-Dichloroethene	U	0.50	U	0.25	U	0.50	U	2.0
trans-1,2-Dichloroethene	0.67	0.50	0.50	0.25	20	0.50	19	2.0
cis-1,2-Dichloroethene	1.9	0.50	1.7	0.25	780	0.50	850	2.0
Trichloroethene	2000	0.50	1200	10	20000 E	0.50	11000	50
Tetrachloroethene	580	0.50	390	10	70	0.50	69	2.0

Sample Location:	B8-SG		B8-24-SG		B5-SG		B5-24-SG	
Media:	Tedlar®		SUMMA®		Tedlar®		SUMMA®	
Date Sampled:	16 Sep 2008		18 Sep 2008		16 Sep 2008		18 Sep 2008	
Compound	Results (ppbv)	LOQ	Results (ppbv)	RL	Results (ppbv)	LOQ	Results (ppbv)	RL
Vinyl Chloride	U	50	U	10	U	50	U	0.050
1,1-Dichloroethene	17	5.0	11	10	U	5.0	U	0.050
trans-1,2-Dichloroethene	300	5.0	180	10	U	5.0	0.22	0.050
cis-1,2-Dichloroethene	19000	5.0	10000	200	73	5.0	93	1.0
Trichloroethene	160000 D	50	110000	200	190	5.0	210	1.0
Tetrachloroethene	140	5.0	160	10	50	5.0	46	1.0

Results are in part per billion by volume (ppbv)

U = None detected at or above the limit of quantitation (LOQ) or the reporting limit (RL)

E = Exceeded the calibration range. Result is considered estimated.

D = Result is from an analysis at a secondary dilution factor.

Table 3 (continued)
Summary Results for VOC Analyses (Tedlar® and SUMMA®)
Carter Carburetor Site
Saint Louis, Missouri
November 2008

Sample Location:	B11-SG		B11-24-SG		C8-SG		C8-24-SG	
Media:	Tedlar®		SUMMA®		Tedlar®		SUMMA®	
Date Sampled:	16 Sep 2008		18 Sep 2008		16 Sep 2008		18 Sep 2008	
Compound	Results (ppbv)	LOQ	Results (ppbv)	RL	Results (ppbv)	LOQ	Results (ppbv)	RL
Vinyl Chloride	U	50	U	0.10	U	50	U	10
1,1-Dichloroethene	U	5.0	U	0.10	U	5.0	U	10
trans-1,2-Dichloroethene	U	5.0	U	0.10	82	5.0	76	10
cis-1,2-Dichloroethene	U	5.0	U	0.10	1300	5.0	1400	10
Trichloroethene	440	5.0	420	1.0	61000	5.0	42000	100
Tetrachloroethene	61	5.0	48	0.10	78	5.0	370	10

Sample Location:	C11-SG		C11-24-SG		D7-SG		D7-24-SG	
Media:	Tedlar®		SUMMA®		Tedlar®		SUMMA®	
Date Sampled:	16 Sep 2008		18 Sep 2008		16 Sep 2008		18 Sep 2008	
Compound	Results (ppbv)	LOQ	Results (ppbv)	RL	Results (ppbv)	LOQ	Results (ppbv)	RL
Vinyl Chloride	U	50	U	0.25	U	50	U	1.0
1,1-Dichloroethene	U	5.0	U	0.25	U	5.0	U	1.0
trans-1,2-Dichloroethene	U	5.0	U	0.25	12	5.0	11	1.0
cis-1,2-Dichloroethene	U	5.0	U	0.25	32	5.0	34	1.0
Trichloroethene	2200	5.0	1400	10	13000	5.0	7000	10
Tetrachloroethene	59	5.0	57	0.25	16	5.0	16	1.0

Results are in part per billion by volume (ppbv)

U = None detected at or above the limit of quantitation (LOQ) or the reporting limit (RL)

Table 3 (continued)
Summary Results for VOC Analyses (Tedlar® and SUMMA®)
Carter Carburetor Site
Saint Louis, Missouri
November 2008

Sample Location:	D10-SG		D10-24-SG		E7-SG		E7-24-SG	
Media:	Tedlar®		SUMMA®		Tedlar®		SUMMA®	
Date Sampled:	16 Sep 2008		18 Sep 2008		16 Sep 2008		18 Sep 2008	
Compound	Results (ppbv)	LOQ	Results (ppbv)	RL	Results (ppbv)	LOQ	Results (ppbv)	RL
Vinyl Chloride	U	50	U	2.0	U	50	U	0.050
1,1-Dichloroethene	U	5.0	U	2.0	U	5.0	U	0.050
trans-1,2-Dichloroethene	66	5.0	79	2.0	38	5.0	0.72	0.050
cis-1,2-Dichloroethene	1500	5.0	1200	100	620	5.0	14	0.050
Trichloroethene	20000	5.0	14000	100	11000	5.0	210	1.0
Tetrachloroethene	660	5.0	850	2.0	9.9	5.0	0.17	0.050

Sample Location:	E10-SG		E10-24-SG		E11-SG		E11-24-SG	
Media::	Tedlar®		SUMMA®		Tedlar®		SUMMA®	
Date Sampled:	16 Sep 2008		18 Sep 2008		16 Sep 2008		18 Sep 2008	
Compound	Results (ppbv)	LOQ	Results (ppbv)	RL	Results (ppbv)	LOQ	Results (ppbv)	RL
Vinyl Chloride	U	50	U	2.0	U	50	U	1.0
1,1-Dichloroethene	U	5.0	U	2.0	U	5.0	U	1.0
trans-1,2-Dichloroethene	10	5.0	11	2.0	U	5.0	2.1	1.0
cis-1,2-Dichloroethene	190	5.0	230	2.0	27	5.0	28	1.0
Trichloroethene	19000	5.0	10000	100	9100	5.0	4500	10
Tetrachloroethene	110	5.0	110	2.0	55	5.0	49	1.0

Results are in part per billion by volume (ppbv)

U = None detected at or above the limit of quantitation (LOQ) or the reporting limit (RL)

Table 3 (continued)
Summary Results for VOC Analyses (Tedlar® and SUMMA®)
Carter Carburetor Site
Saint Louis, Missouri
November 2008

Sample Location:	E12-SG		E12-24-SG		F3-SG		F3-24-SG	
Media:	Tedlar®		SUMMA®		Tedlar®		SUMMA®	
Date Sampled:	16 Sep 2008		18 Sep 2008		17 Sep 2008		18 Sep 2008	
Compound	Results (ppbv)	LOQ	Results (ppbv)	RL	Results (ppbv)	LOQ	Results (ppbv)	RL
Vinyl Chloride	U	50	U	1.0	U	5.0	U	0.050
1,1-Dichloroethene	U	5.0	U	1.0	U	0.50	U	0.050
trans-1,2-Dichloroethene	U	5.0	3.1	1.0	U	0.50	U	0.050
cis-1,2-Dichloroethene	34	5.0	41	1.0	U	0.50	U	0.050
Trichloroethene	6100	5.0	3600	10	56	0.50	44	1.0
Tetrachloroethene	310	5.0	330	1.0	50	0.50	47	1.0

Sample Location:	A5-SG		A5-24-SG		A8-SG		A8-24-SG	
Media:	Tedlar®		SUMMA®		Tedlar®		SUMMA®	
Date Sampled:	17 Sep 2008		18 Sep 2008		17 Sep 2008		18 Sep 2008	
Compound	Results (ppbv)	LOQ	Results (ppbv)	RL	Results (ppbv)	LOQ	Results (ppbv)	RL
Vinyl Chloride	U	50	U	10	U	50	U	0.50
1,1-Dichloroethene	U	5.0	U	10	U	5.0	U	0.50
trans-1,2-Dichloroethene	34	5.0	19	10	U	5.0	U	0.50
cis-1,2-Dichloroethene	920	5.0	530	10	13	5.0	28	0.50
Trichloroethene	56000	5.0	27000	50	210	5.0	160	0.50
Tetrachloroethene	53	5.0	160	10	U	5.0	U	0.50

Results are in part per billion by volume (ppbv)

U = None detected at or above the limit of quantitation (LOQ) or the reporting limit (RL)

Table 3 (continued)
Summary Results for VOC Analyses (Tedlar® and SUMMA®)
Carter Carburetor Site
Saint Louis, Missouri
November 2008

Sample Location:	E9-SG		E9-24-SG		C2-SG		C2-24-SG	
Media:	Tedlar®		SUMMA®		Tedlar®		SUMMA®	
Date Sampled:	17 Sep 2008		18 Sep 2008		17 Sep 2008		18 Sep 2008	
Compound	Results (ppbv)	LOQ	Results (ppbv)	RL	Results (ppbv)	LOQ	Results (ppbv)	RL
Vinyl Chloride	U	50	U	2.0	U	50	U	0.050
1,1-Dichloroethene	U	5.0	U	2.0	U	5.0	U	0.050
trans-1,2-Dichloroethene	29	5.0	5.9	2.0	U	5.0	U	0.050
cis-1,2-Dichloroethene	1100	5.0	220	2.0	U	5.0	U	0.050
Trichloroethene	220000 D	50	18000	5.0	200	5.0	89	1.0
Tetrachloroethene	1400	5.0	240	2.0	15	5.0	14	0.050

Sample Location:	D4-SG		D4-24-SG	
Media:	Tedlar®		SUMMA®	
Date Sampled:			18 Sep 2008	
Compound	Results (ppbv)	LOQ	Results (ppbv)	RL
Vinyl Chloride	NA	NA	71	0.050
1,1-Dichloroethene	NA	NA	0.19	0.050
trans-1,2-Dichloroethene	NA	NA	0.40	0.050
cis-1,2-Dichloroethene	NA	NA	20	0.050
Trichloroethene	NA	NA	19	0.050
Tetrachloroethene	NA	NA	0.45	0.050

Results are in part per billion by volume (ppbv)
U = None detected at or above the limit of quantitation (LOQ) or the reporting limit (RL)
D = Result is from an analysis at a secondary dilution factor
NA = Not available

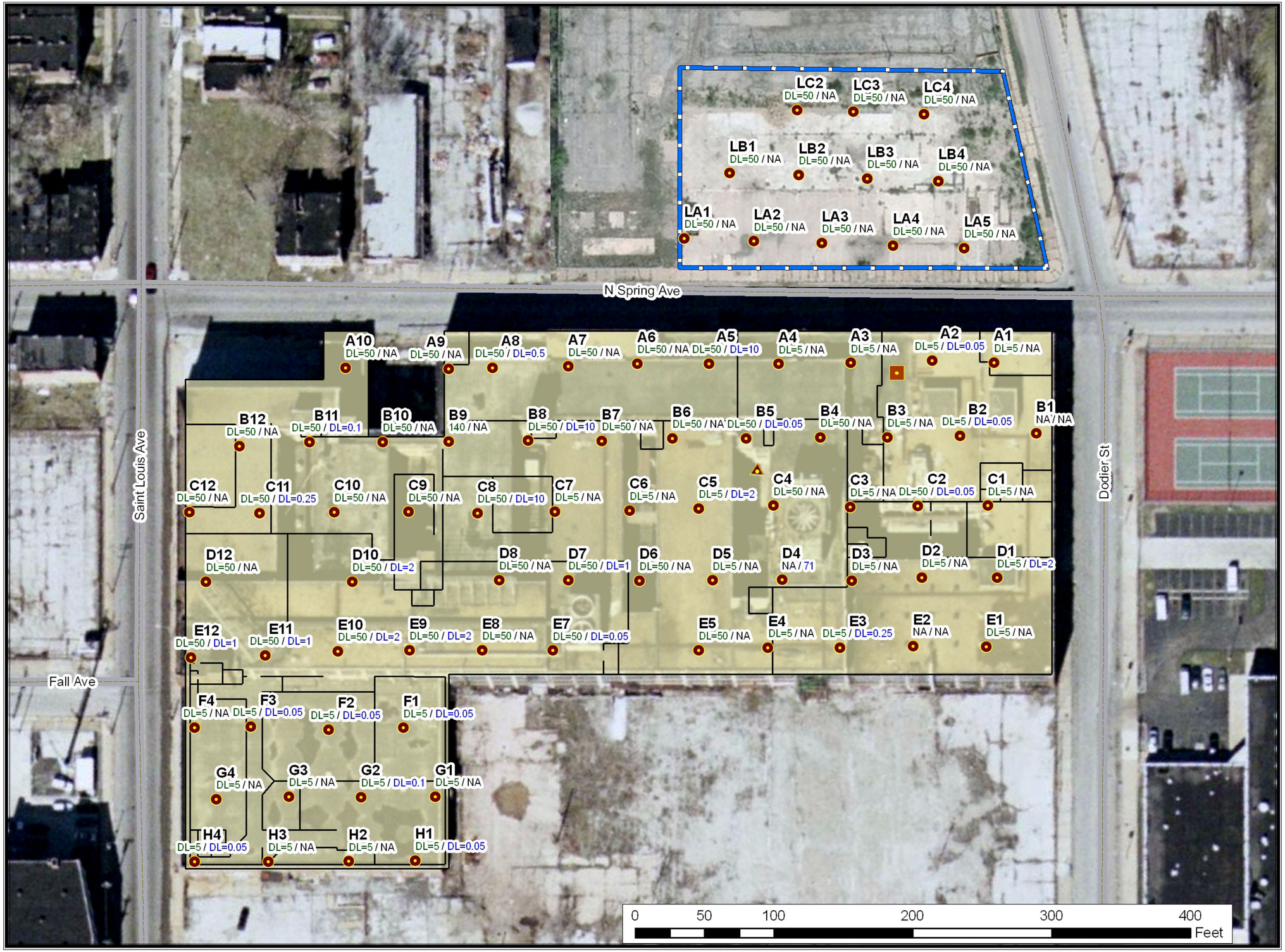
Table 4
Summary Results for VOC QC Analyses (SUMMA®)
Carter Carburetor Site
Saint Louis, Missouri
November 2008

Sample Location:	Ambient		Ambient		Trip	
Media:	SUMMA®		SUMMA®		SUMMA®	
Date Sampled:	18 Sep 2008		18 Sep 2008		18 Sep 2008	
Compound	Results (ppbv)	RL	Results (ppbv)	RL	Results (ppbv)	RL
Vinyl Chloride	0.15	0.050	U	0.050	U	0.050
1,1-Dichloroethene	U	0.050	U	0.050	U	0.050
trans-1,2-Dichloroethene	U	0.050	U	0.050	U	0.050
cis-1,2-Dichloroethene	0.26	0.050	U	0.050	U	0.050
Trichloroethene	0.41	0.050	0.11	0.050	U	0.050
Tetrachloroethene	0.32	0.050	0.38	0.050	U	0.050

Results are in part per billion by volume (ppbv)

U = None detected at or above the reporting limit (RL)

FIGURES

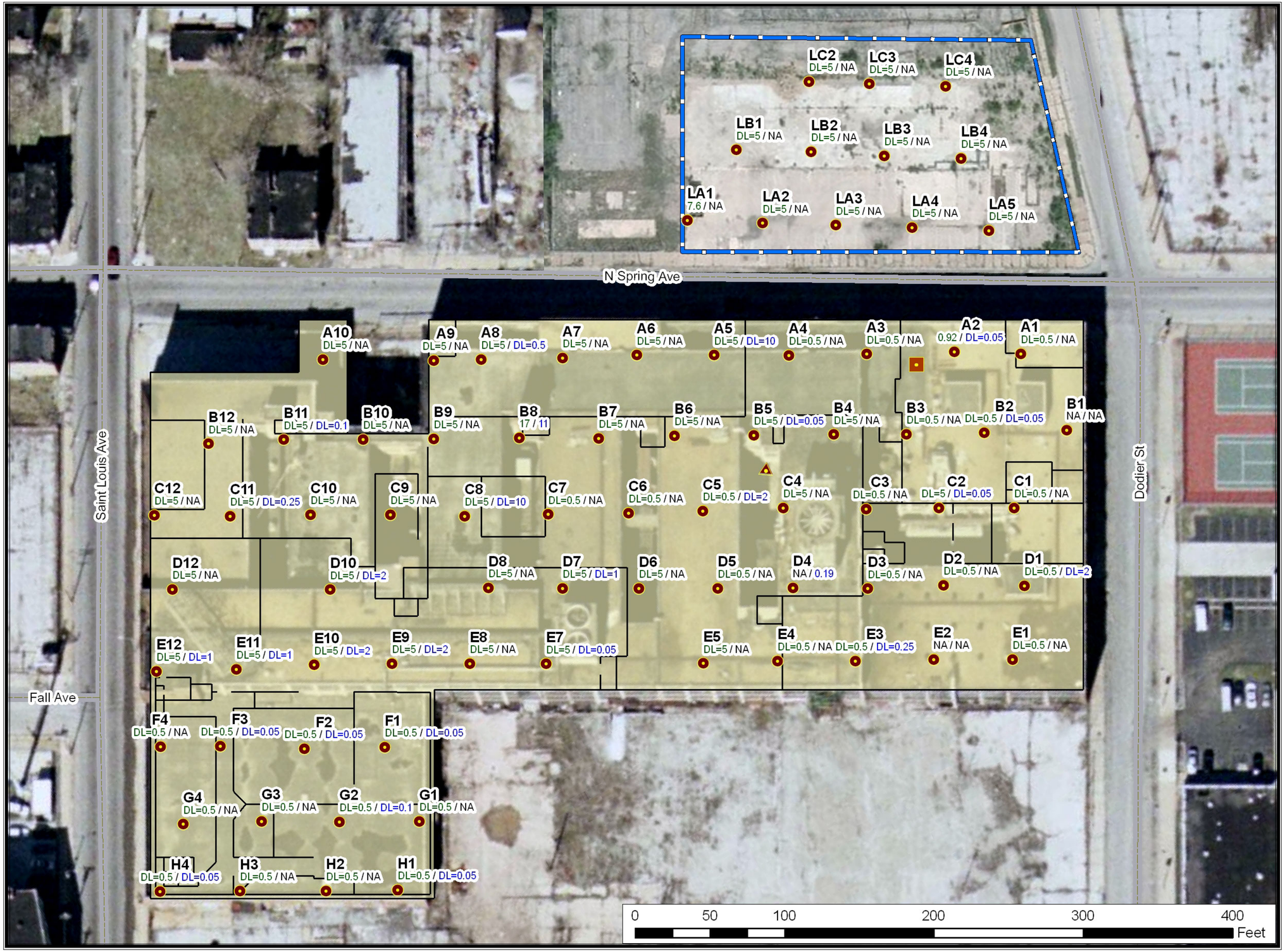


Legend

- Sample Location
- Ambient (Rooftop)
- Ambient (Indoor)
- Carter Carburetor Bldg
- Parking Lot
- 0.14/0.18 Tedlar®/Summa® Result
  Units are in ppbv
- DL Detection Limit
- NA Not Available

U.S EPA Environmental Response Team
Response Engineering and Analytical Contract
EP-C-04-032
W.A.# 0-362

Figure 1
Sample Locations and Results for
Vinyl Chloride
Carter Carburetor Site
Saint Louis, Missouri
November 2008



Legend

- Sample Location
- Ambient (Rooftop)
- Ambient (Indoor)
- Carter Carburetor Bldg
- Parking Lot
- 0.14/0.18 Tedlar®/Summa® Result
  Units are in ppbv
- DL Detection Limit
- NA Not Available

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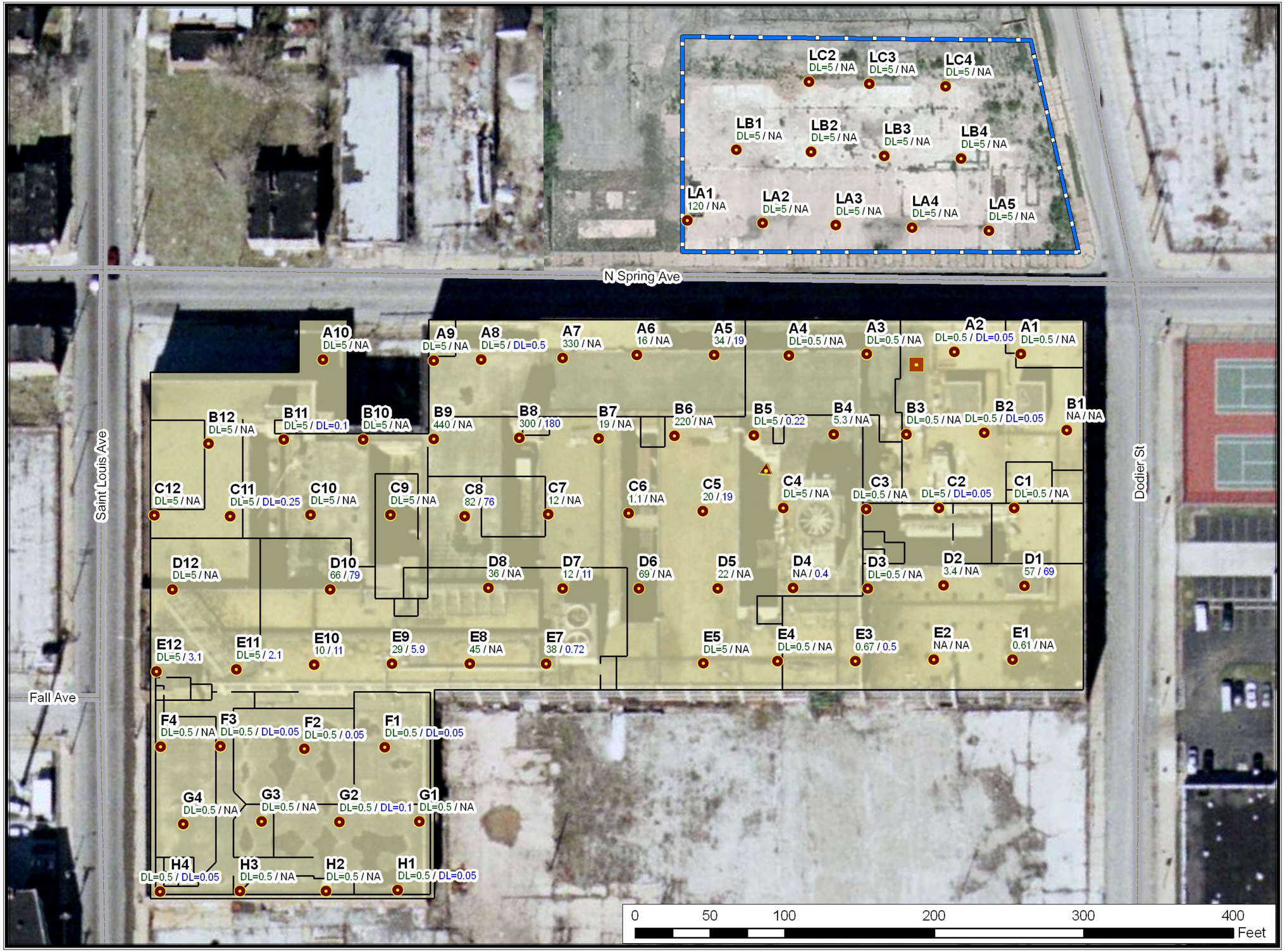
W.A.# 0-362

Figure 2
Sample Locations and Results for
1,1-Dichloroethene
Carter Carburetor Site
Saint Louis, Missouri
November 2008



Legend

- Sample Location
- Ambient (Rooftop)
- Ambient (Indoor)
- Carter Carburetor Bldg
- Parking Lot
- 0.14/0.18 Tedlar®/Summa® Result
  Units are in ppbv
- DL Detection Limit
- NA Not Available

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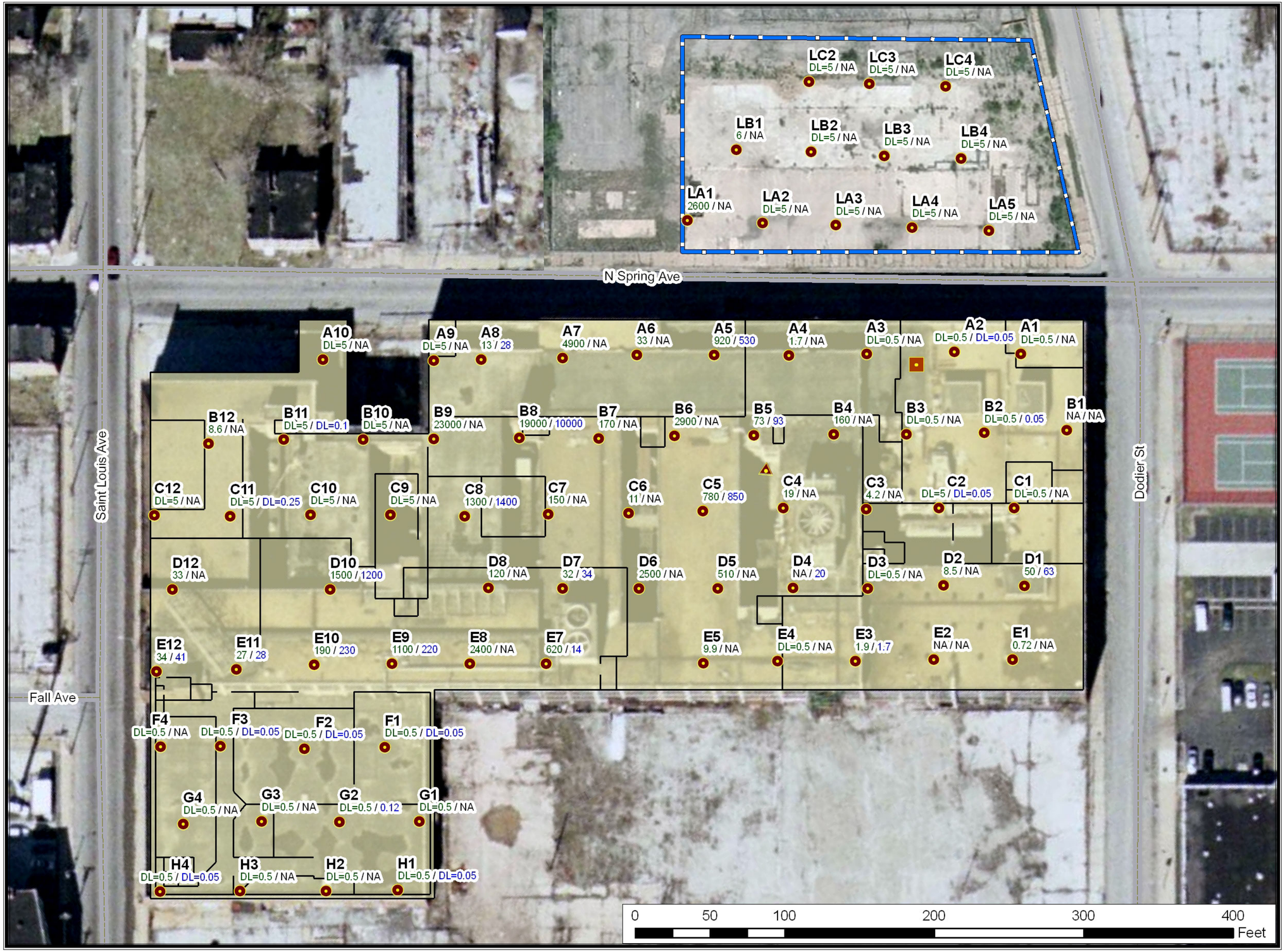
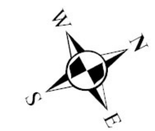
EP-C-04-032
W.A.# 0-362

Figure 3
Sample Locations and Results for
trans-1,2-Dichloroethene
Carter Carburetor Site
Saint Louis, Missouri
November 2008



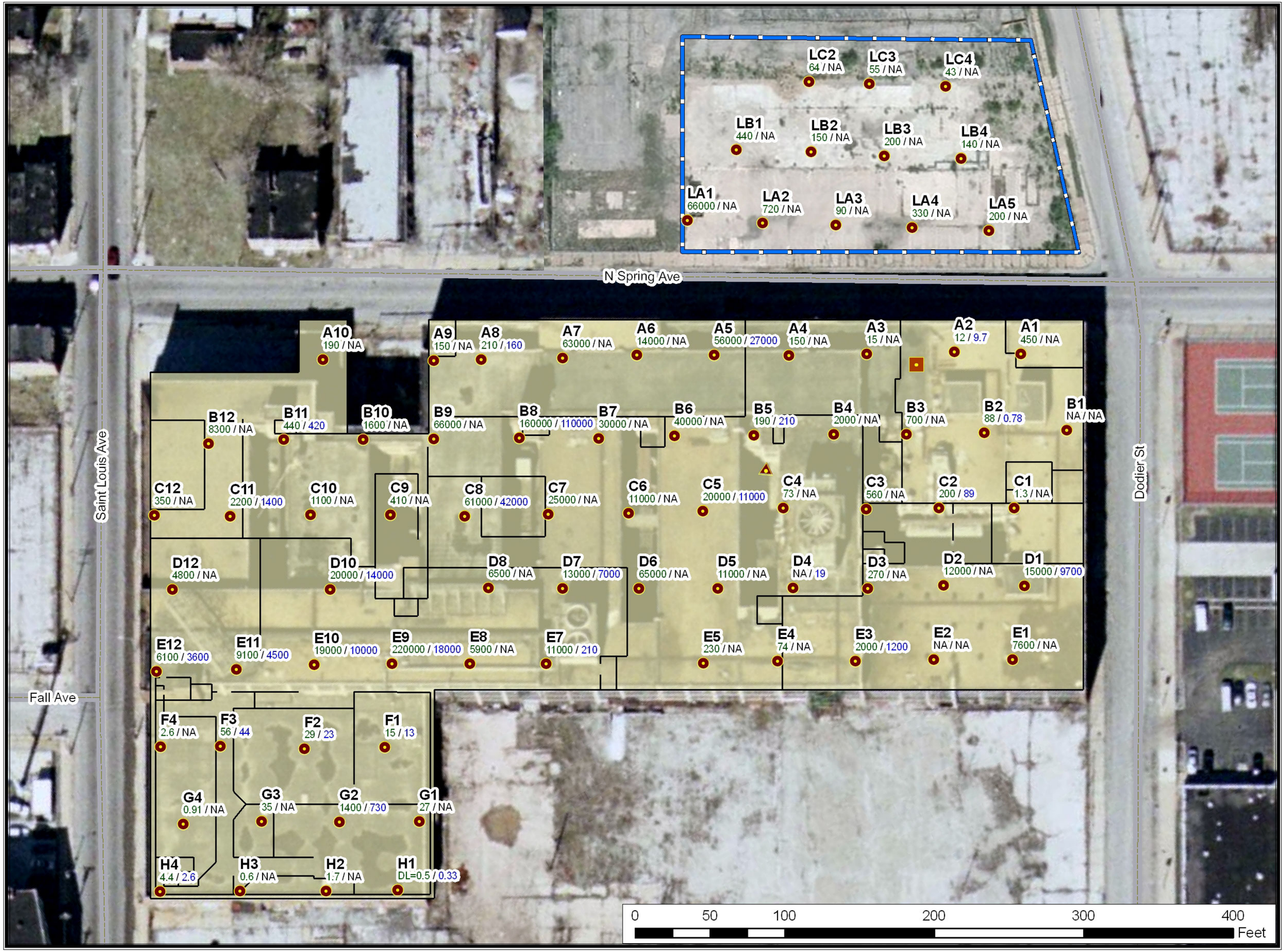


Legend

- Sample Location
- Ambient (Rooftop)
- Ambient (Indoor)
- Carter Carburetor Bldg
- Parking Lot
- 0.14/0.18 Tedlar®/Summa® Result — Units are in ppbv
- DL Detection Limit
- NA Not Available

U.S EPA Environmental Response Team
Response Engineering and Analytical Contract
EP-C-04-032
W.A.# 0-362

Figure 4
Sample Locations and Results for
cis-1,2-Dichloroethene
Carter Carburetor Site
Saint Louis, Missouri
November 2008



Legend

- Sample Location
- Ambient (Rooftop)
- Ambient (Indoor)
- Carter Carburetor Bldg
- Parking Lot
- 0.14/0.18 Tedlar®/Summa® Result
  Units are in ppbv
- DL Detection Limit
- NA Not Available

U.S EPA Environmental Response Team
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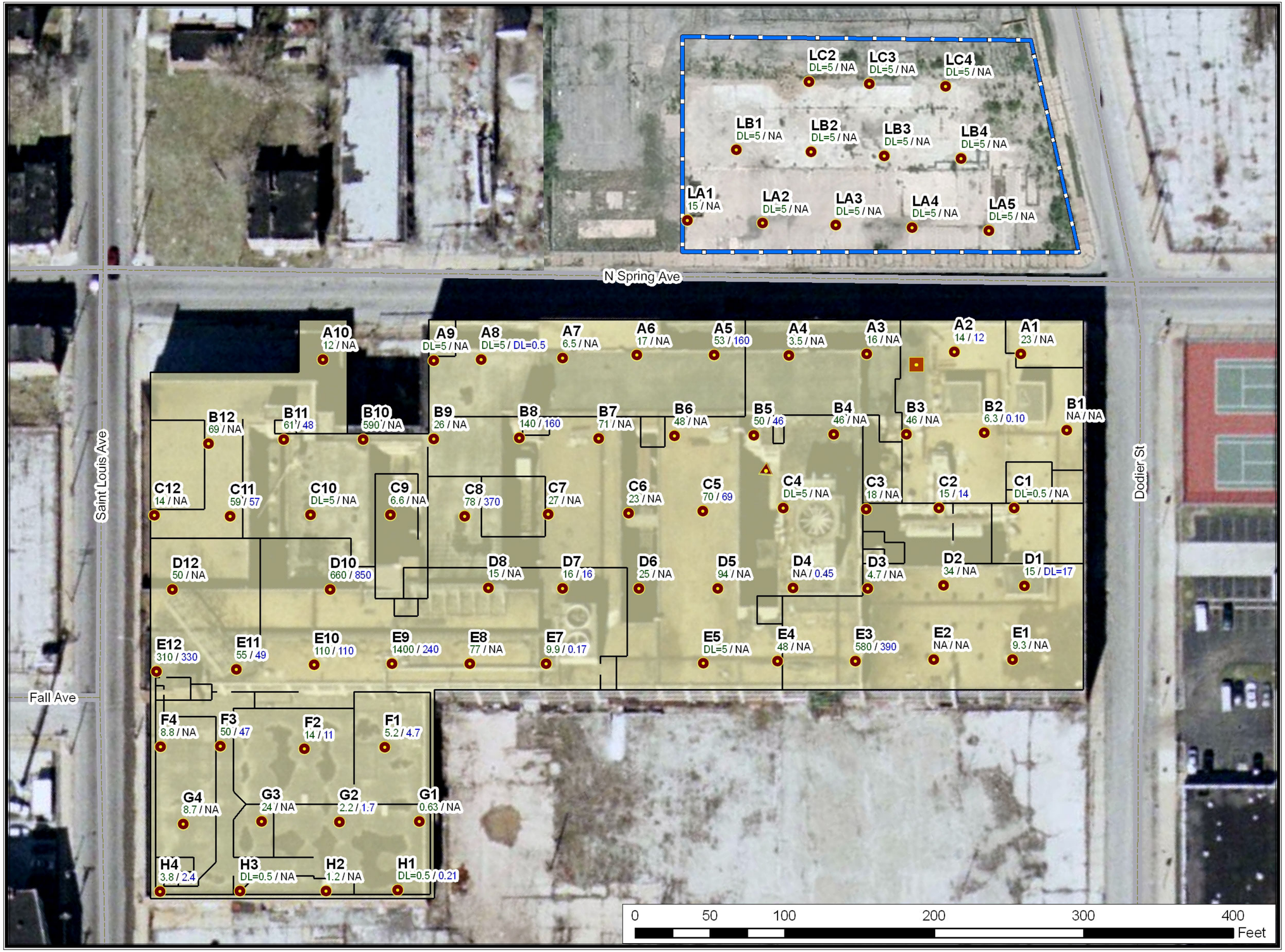
Figure 5
Sample Locations and Results for Trichloroethene
Carter Carburetor Site
Saint Louis, Missouri
November 2008



Legend

- Sample Location
- Ambient (Rooftop)
- Ambient (Indoor)
- Carter Carburetor Bldg
- Parking Lot
- 0.14/0.18 Tedlar®/Summa® Result
  Units are in ppbv
- DL Detection Limit
- NA Not Available

U.S EPA Environmental Response Team
Response Engineering and Analytical Contract
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W.A.# 0-362

Figure 6
Sample Locations and Results for
Tetrachloroethene
Carter Carburetor Site
Saint Louis, Missouri
November 2008

APPENDIX A

Tedlar® Bag GC/MS Analytical Report

Carter Carburetor Site

Final Report

November 2008

GC/MS ANALYTICAL REPORT
CARTER CARBURETOR
SAINT LOUIS, MISSOURI
NOVEMBER 2008

U.S. EPA Work Assignment No.: 0-362
LOCKHEED MARTIN Work Order No.: EAC00362
U.S. EPA Contract No.: EP-C-04-032

Submitted to
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U.S. EPA/ERT

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11/4/08
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Analyzed and prepared by:
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Dennis A. Miller
REAC Program Manager

11/4/08
Date

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LIST OF TABLES

APPENDICES

1.0 INTRODUCTION

The Environmental Protection Agency/Environmental Response Team (EPA/ERT) issued Work Assignment # 0-362 to Lockheed Martin under the Response Engineering and Analytical Contract (REAC) to provide analytical services at the Carter Carburetor Site in Saint Louis, Missouri (MO).

An Agilent® 6890 gas chromatograph and 5973N mass spectrometer (GC/MS) were used to perform volatile organic compound (VOC) analysis of soil gas samples collected in one-Liter (L) Tedlar® bags. Six compounds comprised the target compound list (TCL): vinyl chloride (VCL), 1,1-dichloroethene (1,1-DCE), trans-1,2-DCE, cis-1,2-DCE, trichloroethene (TCE), and tetrachloroethene (PCE).

On-site analysis occurred from 15 September 2008 to 17 September 2008 on the 78 samples collected by REAC personnel. Analysis was performed in accordance with REAC Draft Standard Operating Procedure (SOP) #1741, *Field Analysis of VOCs in Gaseous Phase Samples by GC/MSD Loop Injection.* All analytical data were verified per Screening Data (SD) requirements. Table 1 details the samples by chain of custody (COC) record, number of samples, date sampled and received, matrix, and analysis. Copies of the COC records are included in Appendix A.

2.0 PROCEDURES

A Tedlar® bag was attached to the sample introduction port of the heated dual loop injection apparatus. One of the loops was filled with a sample and the other loop with internal standard. The content of both loops were simultaneously injected onto the head of the column for subsequent analysis by GC/MS. The Agilent ChemStation® data system was used to evaluate and process the data. Table 2 lists the operating conditions of the dual loop injection apparatus and the GC/MS system.

2.1 Soil Gas Analysis

An aliquant of sample was directly introduced into the first loop of the injection apparatus from a Tedlar® bag or syringe using the sample introduction port. The second loop was filled from a SUMMA® canister containing the internal standard. The loops were switched in line with the carrier gas to inject the sample and internal standard into the GC/MS System.

The GC oven was temperature programmed to focus the sample on the head of the column and to achieve quick separation of the VOCs in the samples, which were then detected by the MS detector. Comparing their retention times and mass spectra with those of the 500 part per billion by volume (ppbv) reference standard permits identification of the VOCs in the sample.

2.2 Tuning and Calibration Standards

All certified standards were obtained from commercial vendors with certificates of analysis (COA) presented in Appendix B. The standards' cylinder numbers, concentrations, and compound quantitation ions used are presented in Table 3.

Mass spectrometer tuning was performed and checked daily. Five milliliters (mL) of p-bromofluorobenzene (BFB) at one part per million by volume (ppmv) were analyzed to validate the mass spectrometer tuning parameters.

The primary and secondary standards both contained 15 target compounds in a balance of nitrogen. The primary calibration standard was based on a nominal value of 20 ppmv. The secondary calibration standard was based on a nominal value of 500 ppbv.

The internal standard mix consisted of bromochloromethane, 1,4-difluorobenzene, and chlorobenzene-d_5 each at approximately one ppmv. Fifty microliters (µL) of the internal standard, equivalent to 10 ppbv were added to all samples, blanks, and standards.

After the instrument performance check standard criteria were met, the GC/MS was calibrated with a minimum of five concentrations that spanned the monitoring range of interest in an initial calibration sequence to determine sensitivity and linearity of the instrument's response for the target compounds. Samples were analyzed in the 24-hour period after meeting the acceptance criteria for the initial calibration.

2.3 Compound Identification and Quantitation

VOCs in the samples were identified and quantitated using the Agilent ChemStation® software. This software uses mass spectra reference libraries and extracted ion chromatograms matched with retention time windows to identify and quantify target compounds. The report format prints the internal standards, identified compound, calculated concentration, mass spectra (both raw and background subtracted), quantitation, and qualifier ion chromatograms.

The limit of quantitation (LOQ) for each compound was calculated using the following equation:

$$LOQ\,(ppbv) = Lowest\ Calibration\ Standard\ (ppbv) \times Dilution\ Factor$$

Dilution of the sample was performed when target compounds exceeded the upper range of the initial calibration. The dilution was documented in the injection logbook and the dilution factor was calculated using the following equation:

$$Dilution\ Factor = \frac{Final\ Sample\ Volume\ (mL)}{Initial\ Sample\ Volume\ (mL)}$$

The target compound results were calculated using the following equation:

$$Concentration\,(ppbv) = Analytical\ Concentration\ of\ Compound\ (ppbv) \times DF$$

2.4 Quality Assurance/Quality Control

The following Quality Assurance/Quality Control (QA/QC) procedures were performed for this assignment:

- The GC/MS was tuned, as needed, for perfluorotributylamine (PFTBA) to meet ion abundance criteria for BFB listed in the BFB report included in the calibration data section (Appendix C).
- Evaluations for the initial and continuing calibration are in the calibration data section (Appendix C).
- Six-point initial calibrations and continuing calibration were prepared, analyzed, and acceptance criteria verified prior to sample analysis.
- Immediately following an initial calibration, the initial calibration verification (ICV) standard was prepared from the secondary standard, analyzed, and acceptance criteria verified.
- During the 24-hour analytical period, at least one laboratory control sample (LCS) was analyzed and acceptance criteria verified.
- Instrument blanks were analyzed after the calibration standard(s) and before samples were analyzed to assess possible laboratory contamination and/or carryover. Instrument

blanks were analyzed when necessary to minimize carryover from samples or standards with high levels of VOC target analytes and/or non-target VOCs.

- Method blanks were analyzed after the instrument blank and before samples were analyzed to assess possible contaminants in the Tedlar® bag lot.

- Internal standards from all analyses were evaluated and acceptance criteria verified.

- The lowest standard used in the initial calibration was used for the LOQ.

- During the 24-hour analytical period, at least one replicate was analyzed.

- The following is a list of the QA/QC flags used in qualifying the results:

  B - Concentration less than five times the reported blank result. Result is considered not detected.
  U - None detected at or above the limit of quantitation.
  E - Exceeds the calibration range. Result is considered estimated.
  J - Detected below the limit of quantitation. Result is considered estimated.
  D - Result is from an analysis at a secondary dilution factor.

All applicable data qualifiers were inserted into the results table.

3.0 RESULTS

All results are reported in ppbv and to two significant figures. Target compound results are presented in Table 4. Results for the replicates are presented in Table 5.

The COC records are found in Appendix A. The COAs, for all standards used are found in Appendix B. The calibration package for each day of analysis is included in Appendix C. This package includes copies of the injection logbook # REAC IV-L-0450, BFB tune reports, internal standard evaluations, initial and continuing calibration reports, ICV and LCS evaluation reports, and all standard quantitation reports. Quantitation reports for the blanks and samples are included in Appendix D.

All quantitation reports list the retention times, quantitation ions, peak areas, and concentrations of target compounds in ppbv. Calculated concentrations are generated using the average relative response factor from the initial calibration curve for each target compound.

4.0 DISCUSSION OF RESULTS

Seventy-eight samples were collected and analyzed on site by REAC personnel from 15 September to 17 September 2008. Preliminary results were reported to the Work Assignment Manager.

The following comments address only the compounds of interest for this project. The initial calibrations of 15 September 2008 and 17 September 2008 were reviewed and found to be acceptable. The ICV standard of 15 September 2008 and 17 September 2008 were reviewed and found to be acceptable.

The continuing calibration of 16 September 2008 was reviewed and found to be acceptable. The LCS of 16 September 2008 and 17 September 2008 were reviewed and found to be acceptable.

On 16 September and 17 September 2008, all internal standards were within range except for sample number 51403. The second and third internal standards were below 40 percent. Due to time constraints, re-analysis was not performed. Results detected in sample number 51403 should be used with caution.

Both instrument and method blanks were analyzed and reviewed. All blanks were found to be acceptable.

Replicates were analyzed on 16 and 17 September 2008 and results are listed in Table 5. The relative percent differences ranged from zero to 50.

The concentrations of TCE in sample numbers 51376, 51377, 51378, and 51379 exceeded the linear calibration range. Re-analysis was not performed due to time constraints. The concentrations of TCE in these samples are flagged with an "E" and should be regarded as estimated.

Of the 78 samples analyzed on 16 September and 17 September 2008, the highest concentration of 1,1-DCE, 17 ppbv, was detected in sample number 51381. Sample number 51422 contained the highest concentrations of VCL, trans-1,2-DCE, and cis-1,2-DCE at 140 ppbv, 440 ppbv, and 23,000 ppbv, respectively. Sample number 51427 contained the highest concentrations of TCE and PCE at 220,000 ppbv and 1,400 ppbv, respectively.

TABLES

TABLE 1
Summary of Chain of Custody Records
Carter Carburetor
Saint Louis, Missouri
November 2008

COC #	Number of Samples	Date Sampled	Date Received	Matrix	Analysis
0-362-09/16/08-0001	50	9/16/2008	9/16/2008	Soil gas	VOC/Loop method
0-362-09/17/08-0001	28	9/17/2008	9/17/2008	Soil gas	VOC/Loop method

TABLE 2
Instrument Conditions for Analysis of Volatile Organic Compounds
Carter Carburetor
Saint Louis, Missouri
November 2008

AGILENT® GC/MS	
Sample Loop	
Loop Volume	5 mL
Loop Temperature	60°C
Internal Standard Loop	
Loop Volume	50 µL (equivalent to 10ppbv)
Loop Temperature	60°C
GC Inlet	
Gas Type	Helium
Mode	Pulsed Splitless
Temperature	190°C
Pressure	22.98 psi
Pulsed Pressure	50.0 psi
Pulsed Time	0.50 minute
Purge Flow	30.0 mL/minute
Purge Time	0.00 minute
Septum Flow	2.8 mL/minute
Total Flow	34.3 mL/ minute
GC Oven	
Column	Rtx-Volatiles, 20 m x 0.18 mm ID x 2.0 μm df
Mode	Constant Flow
Flow Rate	1.5 mL/ minute
Cryo (CO_2)	On
Quick Cryo Cooling	On
Initial Temperature	-10°C
Initial Temperature Hold Time	0.50 minute
Ramp Program	40°C/ minute
Final Temperature	160°C
Final Temperature Hold Time	2 minute
Total Run Time	6.75 minute

AGILENT® 6890 GC Method	
MS Temperatures	
MS Quadrupole	150°C
MS Ion Source	230°C
MS Transfer Line	220°C
MS Tune File	BFB.u
MS Acquisition Mode	SIM
Solvent Delay	1.80 minute

TABLE 2 (continued)
Instrument Conditions for Analysis of Volatile Organic Compounds
Carter Carburetor
Saint Louis, Missouri
November 2008

SIMS Parameters

Group 1 Start Time	1.80 min
Ions/Dwell in Group 1	(62/85) (64/85)
Group 2 Start Time	3.00 min
Ions/Dwell in Group 2	(61/85) (63/85) (96/85)
Group 3 Start Time	3.44 min
Ions/Dwell in Group 3	(41/85) (43/85) (57/85) (61/85) (73/85) (96/85) (98/85)
Group 4 Start Time	3.75 min
Ions/Dwell in Group 4	(27/85) (63/85) (65/85)
Group 5 Start Time	3.92 min
Ions/Dwell in Group 5	(61/85) (96/85) (98/85)
Group 6 Start Time	4.10 min
Ions/Dwell in Group 6	(49/85) (61/85) (93/85) (97/85) (99/85) (130/85)
Group 7 Start Time	4.35 min
Ions/Dwell in Group 7	(50/85) (63/85) (77/85) (78/85) (88/85) (114/85)
Group 8 Start Time	4.55 min
Ions/Dwell in Group 8	(95/85) (130/85) (132/85)
Group 9 Start Time	5.00 min
Ions/Dwell in Group 9	(91/85) (92/85)
Group 10 Start Time	5.30 min
Ions/Dwell in Group 10	(131/85) (164/85) (166/85)
Group 11 Start Time	5.60 min
Ions/Dwell in Group 11	(82/85) (91/85) (106/85) (117/85) (119/85)

TABLE 3
Concentrations and Quantitation Ions for Air Toxic Standards
Carter Carburetor
Saint Louis, Missouri
November 2008

Air Liquide, Custom Class Calibration Standard

Cylinder Number: ALM057539
Certification Date: 07 March 2008
Expiration Date: 07 March 2009

BFB Compound	Quant Ion	Concentration
4-Bromofluorobenzene	N/A	1.02 ppm

Spectra Gases, Inc. Special Certified Blend

Cylinder Number: CC-256138
Certification Date: 01 October 2007
Expiration Date: 01 October 2008

Volatile Organic Compound	Quant Ion	Concentration
Vinyl chloride	62	20.7 ppm
1,1-Dichloroethene	61	20.4 ppm
trans-1,2-Dichloroethene	61	21.1 ppm
1,1-Dichloroethane	63	20.4 ppm
Methyl tert-Butyl Ether	73	20.5 ppm
cis-1,2-Dichloroethene	61	20.4 ppm
1,1,1-Trichloroethane	97	20.4 ppm
Benzene	78	20.2 ppm
Trichloroethene	130	20.6 ppm
Toluene	97	20.4 ppm
Tetrachloroethene	166	20.1 ppm
Ethylbenzene	91	20.0 ppm
m-Xylene	91	19.7 ppm
p-Xylene	91	19.7 ppm
o-Xylene	91	19.7 ppm

Spectra Gases, Inc.

Cylinder Number: CC-172915
Certification Date: 04 December 2007
Expiration Date: 04 December 2008

Internal Standard	Quant Ion	Concentration
Bromochloromethane	49	1.03 ppm
1,4-Difluorobenzene	114	1.06 ppm
Chlorobenzene-d_5	117	1.07 ppm

TABLE 3 (continued)
Concentrations and Quantitation Ions for Air Toxic Standards
Carter Carburetor
Saint Louis, Missouri
November 2008

Spectra Gases, Inc. Special Certified Blend

Cylinder Number: CC-256175
Certification Date: 03 March 2008
Expiration Date: 03 March 2009

Volatile Organic Compound	Quant Ion	Concentration
Vinyl chloride	62	495 ppb
1,1-Dichloroethene	61	539 ppb
trans-1,2-Dichloroethene	61	533 ppb
1,1-Dichloroethane	63	530 ppb
Methyl tert-Butyl Ether	73	529 ppb
cis-1,2-Dichloroethene	61	516 ppb
1,1,1-Trichloroethane	97	521 ppb
Benzene	78	526 ppb
Trichloroethene	130	524 ppb
Toluene	97	535 ppb
Tetrachloroethene	166	519 ppb
Ethylbenzene	91	514 ppb
m-Xylene	91	520 ppb
p-Xylene	91	520 ppb
o-Xylene	91	512 ppb

Table 4
Results of Target Compounds for Volatile Organic Compounds in Soil Gas Samples
Carter Carburetor Site
Saint Louis, Missouri
November 2008

Data File:	CAR016		CAR017		CAR019		CAR020	
Sample Number:	20080916-MB		20080916-LB		51350		51352	
Sample Location:	Instrument Blank		Method Blank		F4-SG		H4-SG	
Sample Volume (ml):	5.0		5.0		5.0		5.0	
Dilution multiplier:	1		1		1		1	
Date Sampled:					16 Sep 2008		16 Sep 2008	
Date Analyzed:	16 Sep 2008		16 Sep 2008		16 Sep 2008		16 Sep 2008	
Compound	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ
Vinyl Chloride	U	5.0	U	5.0	U	5.0	U	5.0
1,1-Dichloroethene	U	0.50	U	0.50	U	0.50	U	0.50
trans-1,2-Dichloroethene	U	0.50	U	0.50	U	0.50	U	0.50
cis-1,2-Dichloroethene	U	0.50	U	0.50	U	0.50	U	0.50
Trichloroethene	U	0.50	U	0.50	2.6	0.50	4.4	0.50
Tetrachloroethene	U	0.50	U	0.50	8.8	0.50	3.8	0.50

Data File:	CAR021		CAR022		CAR023		CAR024	
Sample Number:	51351		51353		51354		51355	
Sample Location:	G4-SG		H3-SG		G3-SG		H2-SG	
Sample Volume (ml):	5.0		5.0		5.0		5.0	
Dilution multiplier:	1		1		1		1	
Date Sampled:	16 Sep 2008		16 Sep 2008		16 Sep 2008		16 Sep 2008	
Date Analyzed:	16 Sep 2008		16 Sep 2008		16 Sep 2008		16 Sep 2008	
Compound	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ
Vinyl Chloride	U	5.0	U	5.0	U	5.0	U	5.0
1,1-Dichloroethene	U	0.50	U	0.50	U	0.50	U	0.50
trans-1,2-Dichloroethene	U	0.50	U	0.50	U	0.50	U	0.50
cis-1,2-Dichloroethene	U	0.50	U	0.50	U	0.50	U	0.50
Trichloroethene	0.91	0.50	0.60	0.50	35	0.50	1.7	0.50
Tetrachloroethene	8.7	0.50	U	0.50	24	0.50	1.2	0.50

Results are in part per billion by volume (ppbv)

U = None detected at or above the limit of quantitation (LOQ)

Table 4 (continued)
Results of Target Compounds for Volatile Organic Compounds in Soil Gas Samples
Carter Carburetor Site
Saint Louis, Missouri
November 2008

Data File:	CAR025		CAR026		CAR027		CAR028	
Sample Number:	51356		51357		51358		51359	
Sample Location:	H1-SG		G1-SG		G2-SG		F1-SG	
Sample Volume (ml):	5.0		5.0		5.0		5.0	
Dilution multiplier:	1		1		1		1	
Date Sampled:	16 Sep 2008		16 Sep 2008		16 Sep 2008		16 Sep 2008	
Date Analyzed:	16 Sep 2008		16 Sep 2008		16 Sep 2008		16 Sep 2008	
Compound	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ
Vinyl Chloride	U	5.0	U	5.0	U	5.0	U	5.0
1,1-Dichloroethene	U	0.50	U	0.50	U	0.50	U	0.50
trans-1,2-Dichloroethene	U	0.50	U	0.50	U	0.50	U	0.50
cis-1,2-Dichloroethene	U	0.50	U	0.50	U	0.50	U	0.50
Trichloroethene	U	0.50	27	0.50	1400	0.50	15	0.50
Tetrachloroethene	U	0.50	0.63	0.50	2.2	0.50	5.2	0.50

Data File:	CAR030		CAR033		CAR034		CAR035	
Sample Number:	51360		51362		51363		51372	
Sample Location:	F2-SG		A1-SG		A2-SG		D2-SG	
Sample Volume (ml):	5.0		5.0		5.0		5.0	
Dilution multiplier:	1		1		1		1	
Date Sampled:	16 Sep 2008		16 Sep 2008		16 Sep 2008		16 Sep 2008	
Date Analyzed:	16 Sep 2008		16 Sep 2008		16 Sep 2008		16 Sep 2008	
Compound	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ
Vinyl Chloride	U	5.0	U	5.0	U	5.0	U	5.0
1,1-Dichloroethene	U	0.50	U	0.50	0.92	0.50	U	0.50
trans-1,2-Dichloroethene	U	0.50	U	0.50	U	0.50	3.4	0.50
cis-1,2-Dichloroethene	U	0.50	U	0.50	U	0.50	8.5	0.50
Trichloroethene	29	0.50	450	0.50	12	0.50	12000 D	5.0
Tetrachloroethene	14	0.50	23	0.50	14	0.50	34	0.50

Results are in part per billion by volume (ppbv)

U = None detected at or above the limit of quantitation (LOQ)

D = Result is from an analysis at a secondary dilution factor.

Table 4 (continued)
Results of Target Compounds for Volatile Organic Compounds in Soil Gas Samples
Carter Carburetor Site
Saint Louis, Missouri
November 2008

Data File:	CAR036		CAR037		CAR039		CAR040	
Sample Number:	51364		51365		51366		51368	
Sample Location:	B2-SG		B3-SG		A3-SG		C1-SG	
Sample Volume (ml):	5.0		5.0		5.0		5.0	
Dilution multiplier:	1		1		1		1	
Date Sampled:	16 Sep 2008		16 Sep 2008		16 Sep 2008		16 Sep 2008	
Date Analyzed:	16 Sep 2008		16 Sep 2008		16 Sep 2008		16 Sep 2008	
Compound	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ
Vinyl Chloride	U	5.0	U	5.0	U	5.0	U	5.0
1,1-Dichloroethene	U	0.50	U	0.50	U	0.50	U	0.50
trans-1,2-Dichloroethene	U	0.50	U	0.50	U	0.50	U	0.50
cis-1,2-Dichloroethene	U	0.50	U	0.50	U	0.50	U	0.50
Trichloroethene	88	0.50	700	0.50	15	0.50	1.3	0.50
Tetrachloroethene	6.3	0.50	46	0.50	16	0.50	U	0.50

Data File:	CAR041		CAR042		CAR043		CAR044	
Sample Number:	51369		51367		51370		51371	
Sample Location:	C3-SG		A4-SG		E1-SG		D1-SG	
Sample Volume (ml):	5.0		5.0		5.0		5.0	
Dilution multiplier:	1		1		1		1	
Date Sampled:	16 Sep 2008		16 Sep 2008		16 Sep 2008		16 Sep 2008	
Date Analyzed:	16 Sep 2008		16 Sep 2008		16 Sep 2008		16 Sep 2008	
Compound	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ
Vinyl Chloride	U	5.0	U	5.0	U	5.0	U	5.0
1,1-Dichloroethene	U	0.50	U	0.50	U	0.50	U	0.50
trans-1,2-Dichloroethene	U	0.50	U	0.50	0.61	0.50	57	0.50
cis-1,2-Dichloroethene	4.2	0.50	1.7	0.50	0.72	0.50	50	0.50
Trichloroethene	560	0.50	150	0.50	7600	0.50	15000 D	5.0
Tetrachloroethene	18	0.50	3.5	0.50	9.3	0.50	15	0.50

Results are in part per billion by volume (ppbv)

U = None detected at or above the limit of quantitation (LOQ)

D = Result is from an analysis at a secondary dilution factor.

Table 4 (continued)
Results of Target Compounds for Volatile Organic Compounds in Soil Gas Samples
Carter Carburetor Site
Saint Louis, Missouri
November 2008

Data File:	CAR045		CAR046		CAR047		CAR048	
Sample Number:	51373		51374		51375		51376	
Sample Location:	E3-SG		D3-SG		E4-SG		D5-SG	
Sample Volume (ml):	5.0		5.0		5.0		5.0	
Dilution multiplier:	1		1		1		1	
Date Sampled:	16 Sep 2008		16 Sep 2008		16 Sep 2008		16 Sep 2008	
Date Analyzed:	16 Sep 2008		16 Sep 2008		16 Sep 2008		16 Sep 2008	
Compound	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ
Vinyl Chloride	U	5.0	U	5.0	U	5.0	U	5.0
1,1-Dichloroethene	U	0.50	U	0.50	U	0.50	U	0.50
trans-1,2-Dichloroethene	0.67	0.50	U	0.50	U	0.50	22	0.50
cis-1,2-Dichloroethene	1.9	0.50	U	0.50	U	0.50	510	0.50
Trichloroethene	2000	0.50	270	0.50	74	0.50	11000 E	0.50
Tetrachloroethene	580	0.50	4.7	0.50	48	0.50	94	0.50

Data File:	CAR049		CAR051		CAR052		CAR053	
Sample Number:	51377		51378		51379		51380	
Sample Location:	C6-SG		C5-SG		C7-SG		B7-SG	
Sample Volume (ml):	5.0		5.0		5.0		0.50	
Dilution multiplier:	1		1		1		10	
Date Sampled:	16 Sep 2008		16 Sep 2008		16 Sep 2008		16 Sep 2008	
Date Analyzed:	16 Sep 2008		16 Sep 2008		16 Sep 2008		16 Sep 2008	
Compound	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ
Vinyl Chloride	U	5.0	U	5.0	U	5.0	U	50
1,1-Dichloroethene	U	0.50	U	0.50	U	0.50	U	5.0
trans-1,2-Dichloroethene	1.1	0.50	20	0.50	12	0.50	19	5.0
cis-1,2-Dichloroethene	11	0.50	780	0.50	150	0.50	170	5.0
Trichloroethene	11000 E	0.50	20000 E	0.50	25000 E	0.50	30000	5.0
Tetrachloroethene	23	0.50	70	0.50	27	0.50	71	5.0

Results are in part per billion by volume (ppbv)

U = None detected at or above the limit of quantitation (LOQ)

E = Exceeds the calibration range. Result is considered estimated.

Table 4 (continued)
Results of Target Compounds for Volatile Organic Compounds in Soil Gas Samples
Carter Carburetor Site
Saint Louis, Missouri
November 2008

Data File:	CAR054		CAR055		CAR056		CAR057	
Sample Number:	51381		51383		51384		51386	
Sample Location:	B8-SG		B4-SG		C4-SG		B5-SG	
Sample Volume (ml):	0.50		0.50		0.50		0.50	
Dilution multiplier:	10		10		10		10	
Date Sampled:	16 Sep 2008		16 Sep 2008		16 Sep 2008		16 Sep 2008	
Date Analyzed:	16 Sep 2008		16 Sep 2008		16 Sep 2008		16 Sep 2008	
Compound	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ
Vinyl Chloride	U	50	U	50	U	50	U	50
1,1-Dichloroethene	17	5.0	U	5.0	U	5.0	U	5.0
trans-1,2-Dichloroethene	300	5.0	5.3	5.0	U	5.0	U	5.0
cis-1,2-Dichloroethene	19000	5.0	160	5.0	19	5.0	73	5.0
Trichloroethene	160000 D	50	2000	5.0	73	5.0	190	5.0
Tetrachloroethene	140	5.0	46	5.0	U	5.0	50	5.0

Data File:	CAR058		CAR059		CAR060		CAR061	
Sample Number:	51394		51395		51392		51400	
Sample Location:	B10-SG		B11-SG		C8-SG		C10-SG	
Sample Volume (ml):	0.50		0.50		0.50		0.50	
Dilution multiplier:	10		10		10		10	
Date Sampled:	16 Sep 2008		16 Sep 2008		16 Sep 2008		16 Sep 2008	
Date Analyzed:	16 Sep 2008		16 Sep 2008		16 Sep 2008		16 Sep 2008	
Compound	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ
Vinyl Chloride	U	50	U	50	U	50	U	50
1,1-Dichloroethene	U	5.0	U	5.0	U	5.0	U	5.0
trans-1,2-Dichloroethene	U	5.0	U	5.0	82	5.0	U	5.0
cis-1,2-Dichloroethene	U	5.0	U	5.0	1300	5.0	U	5.0
Trichloroethene	1600	5.0	440	5.0	61000	5.0	1100	5.0
Tetrachloroethene	590	5.0	61	5.0	78	5.0	U	5.0

Results are in part per billion by volume (ppbv)

U = None detected at or above the limit of quantitation (LOQ)

D = Result is from an analysis at a secondary dilution factor.

Table 4 (continued)
Results of Target Compounds for Volatile Organic Compounds in Soil Gas Samples
Carter Carburetor Site
Saint Louis, Missouri
November 2008

Data File:	CAR062		CAR063		CAR064		CAR065	
Sample Number:	51398		51399		51412		51409	
Sample Location:	C11-SG		C12-SG		D7-SG		D8-SG	
Sample Volume (ml):	0.50		0.50		0.50		0.50	
Dilution multiplier:	10		10		10		10	
Date Sampled:	16 Sep 2008		16 Sep 2008		16 Sep 2008		16 Sep 2008	
Date Analyzed:	16 Sep 2008		16 Sep 2008		16 Sep 2008		16 Sep 2008	
Compound	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ
Vinyl Chloride	U	50	U	50	U	50	U	50
1,1-Dichloroethene	U	5.0	U	5.0	U	5.0	U	5.0
trans-1,2-Dichloroethene	U	5.0	U	5.0	12	5.0	36	5.0
cis-1,2-Dichloroethene	U	5.0	U	5.0	32	5.0	120	5.0
Trichloroethene	2200	5.0	350	5.0	13000	5.0	6500	5.0
Tetrachloroethene	59	5.0	14	5.0	16	5.0	15	5.0

Data File:	CAR066		CAR067		CAR068		CAR069	
Sample Number:	51405		51401		51411		51410	
Sample Location:	D10-SG		D12-SG		E7-SG		E8-SG	
Sample Volume (ml):	0.50		0.50		0.50		0.50	
Dilution multiplier:	10		10		10		10	
Date Sampled:	16 Sep 2008		16 Sep 2008		16 Sep 2008		16 Sep 2008	
Date Analyzed:	17 Sep 2008		17 Sep 2008		17 Sep 2008		17 Sep 2008	
Compound	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ
Vinyl Chloride	U	50	U	50	U	50	U	50
1,1-Dichloroethene	U	5.0	U	5.0	U	5.0	U	5.0
trans-1,2-Dichloroethene	66	5.0	U	5.0	38	5.0	45	5.0
cis-1,2-Dichloroethene	1500	5.0	33	5.0	620	5.0	2400	5.0
Trichloroethene	20000	5.0	4800	5.0	11000	5.0	5900	5.0
Tetrachloroethene	660	5.0	50	5.0	9.9	5.0	77	5.0

Results are in part per billion by volume (ppbv)

U = None detected at or above the limit of quantitation (LOQ)

Table 4 (continued)
Results of Target Compounds for Volatile Organic Compounds in Soil Gas Samples
Carter Carburetor Site
Saint Louis, Missouri
November 2008

Data File:	CAR071		CAR072		CAR073	
Sample Number:	51406		51403		51402	
Sample Location:	E10-SG		E11-SG		E12-SG	
Sample Volume (ml):	0.50		0.50		0.50	
Dilution multiplier:	10		10		10	
Date Sampled:	16 Sep 2008		16 Sep 2008		16 Sep 2008	
Date Analyzed:	17 Sep 2008		17 Sep 2008		17 Sep 2008	
Compound	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ
Vinyl Chloride	U	50	U	50	U	50
1,1-Dichloroethene	U	5.0	U	5.0	U	5.0
trans-1,2-Dichloroethene	10	5.0	U	5.0	U	5.0
cis-1,2-Dichloroethene	190	5.0	27	5.0	34	5.0
Trichloroethene	19000	5.0	9100	5.0	6100	5.0
Tetrachloroethene	110	5.0	55	5.0	310	5.0

Data File:	CAR082		CAR083		CAR085		CAR086	
Sample Number:	20080917-MB		20080917-LB		51413		51414	
Sample Location:	Instrument Blank		Method Blank		F3-SG		A5-SG	
Sample Volume (ml):	5.0		5.0		5.0		0.50	
Dilution multiplier:	1		1		1		10	
Date Sampled:	17 Sep 2008		17 Sep 2008		17 Sep 2008		17 Sep 2008	
Date Analyzed:	17 Sep 2008		17 Sep 2008		17 Sep 2008		17 Sep 2008	
Compound	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ
Vinyl Chloride	U	5.0	U	5.0	U	5.0	U	50
1,1-Dichloroethene	U	0.50	U	0.50	U	0.50	U	5.0
trans-1,2-Dichloroethene	U	0.50	U	0.50	U	0.50	34	5.0
cis-1,2-Dichloroethene	U	0.50	U	0.50	U	0.50	920	5.0
Trichloroethene	U	0.50	U	0.50	56	0.50	56000	5.0
Tetrachloroethene	U	0.50	U	0.50	50	0.50	53	5.0

Results are in part per billion by volume (ppbv)

U = None detected at or above the limit of quantitation (LOQ)

Table 4 (continued)
Results of Target Compounds for Volatile Organic Compounds in Soil Gas Samples
Carter Carburetor Site
Saint Louis, Missouri
November 2008

Data File:	CAR087		CAR088		CAR089		CAR090	
Sample Number:	51415		51416		51417		51418	
Sample Location:	A6-SG		A7-SG		A8-SG		A9-SG	
Sample Volume (ml):	0.50		0.50		0.50		0.50	
Dilution multiplier:	10		10		10		10	
Date Sampled:	17 Sep 2008		17 Sep 2008		17 Sep 2008		17 Sep 2008	
Date Analyzed:	17 Sep 2008		17 Sep 2008		17 Sep 2008		17 Sep 2008	
Compound	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ
Vinyl Chloride	U	50	U	50	U	50	U	50
1,1-Dichloroethene	U	5.0	U	5.0	U	5.0	U	5.0
trans-1,2-Dichloroethene	16	5.0	330	5.0	U	5.0	U	5.0
cis-1,2-Dichloroethene	33	5.0	4900	5.0	13	5.0	U	5.0
Trichloroethene	14000	5.0	63000	5.0	210	5.0	150	5.0
Tetrachloroethene	17	5.0	6.5	5.0	U	5.0	U	5.0

Data File:	CAR091		CAR092		CAR093		CAR094	
Sample Number:	51419		51420		51421		51422	
Sample Location:	A10-SG		B12-SG		C9-SG		B9-SG	
Sample Volume (ml):	0.50		0.50		0.50		0.50	
Dilution multiplier:	10		10		10		10	
Date Sampled:	17 Sep 2008		17 Sep 2008		17 Sep 2008		17 Sep 2008	
Date Analyzed:	17 Sep 2008		17 Sep 2008		17 Sep 2008		17 Sep 2008	
Compound	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ
Vinyl Chloride	U	50	U	50	U	50	140	50
1,1-Dichloroethene	U	5.0	U	5.0	U	5.0	U	5.0
trans-1,2-Dichloroethene	U	5.0	U	5.0	U	5.0	440	5.0
cis-1,2-Dichloroethene	U	5.0	8.6	5.0	U	5.0	23000	5.0
Trichloroethene	190	5.0	8300	5.0	410	5.0	66000	5.0
Tetrachloroethene	12	5.0	69	5.0	6.6	5.0	26	5.0

Results are in part per billion by volume (ppbv)

U = None detected at or above the limit of quantitation (LOQ)

Table 4 (continued)
Results of Target Compounds for Volatile Organic Compounds in Soil Gas Samples
Carter Carburetor Site
Saint Louis, Missouri
November 2008

Data File:	CAR096		CAR097		CAR098		CAR099	
Sample Number:	51424		51425		51426		51427	
Sample Location:	B6-SG		D6-SG		E5-SG		E9-SG	
Sample Volume (ml):	0.50		0.50		0.50		0.50	
Dilution multiplier:	10		10		10		10	
Date Sampled:	17 Sep 2008		17 Sep 2008		17 Sep 2008		17 Sep 2008	
Date Analyzed:	17 Sep 2008		17 Sep 2008		17 Sep 2008		17 Sep 2008	
Compound	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ
Vinyl Chloride	U	50	U	50	U	50	U	50
1,1-Dichloroethene	U	5.0	U	5.0	U	5.0	U	5.0
trans-1,2-Dichloroethene	220	5.0	69	5.0	U	5.0	29	5.0
cis-1,2-Dichloroethene	2900	5.0	2500	5.0	9.9	5.0	1100	5.0
Trichloroethene	40000	5.0	65000	5.0	230	5.0	220000 D	50
Tetrachloroethene	48	5.0	25	5.0	U	5.0	1400	5.0

Data File:	CAR101		CAR102		CAR103		CAR104	
Sample Number:	51430		51431		51432		51433	
Sample Location:	LA1-SG		LA2-SG		LA3-SG		LA4-SG	
Sample Volume (ml):	0.50		0.50		0.50		0.50	
Dilution multiplier:	10		10		10		10	
Date Sampled:	17 Sep 2008		17 Sep 2008		17 Sep 2008		17 Sep 2008	
Date Analyzed:	17 Sep 2008		17 Sep 2008		17 Sep 2008		17 Sep 2008	
Compound	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ
Vinyl Chloride	U	50	U	50	U	50	U	50
1,1-Dichloroethene	7.6	5.0	U	5.0	U	5.0	U	5.0
trans-1,2-Dichloroethene	120	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-Dichloroethene	2600	5.0	U	5.0	U	5.0	U	5.0
Trichloroethene	66000	5.0	720	5.0	90	5.0	330	5.0
Tetrachloroethene	15	5.0	U	5.0	U	5.0	U	5.0

Results are in part per billion by volume (ppbv)

U = None detected at or above the limit of quantitation (LOQ)

D = Result is from an analysis at a secondary dilution factor.

Table 4 (continued)
Results of Target Compounds for Volatile Organic Compounds in Soil Gas Samples
Carter Carburetor Site
Saint Louis, Missouri
November 2008

Data File:	CAR105		CAR106		CAR107		CAR108	
Sample Number:	51434		51435		51436		51437	
Sample Location:	LA5-SG		LB4-SG		LB3-SG		LB2-SG	
Sample Volume (ml):	0.50		0.50		0.50		0.50	
Dilution multiplier:	10		10		10		10	
Date Sampled:	17 Sep 2008		17 Sep 2008		17 Sep 2008		17 Sep 2008	
Date Analyzed:	17 Sep 2008		17 Sep 2008		17 Sep 2008		17 Sep 2008	
Compound	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ
Vinyl Chloride	U	50	U	50	U	50	U	50
1,1-Dichloroethene	U	5.0	U	5.0	U	5.0	U	5.0
trans-1,2-Dichloroethene	U	5.0	U	5.0	U	5.0	U	5.0
cis-1,2-Dichloroethene	U	5.0	U	5.0	U	5.0	U	5.0
Trichloroethene	200	5.0	140	5.0	200	5.0	150	5.0
Tetrachloroethene	U	5.0	U	5.0	U	5.0	U	5.0

Data File:	CAR109		CAR110		CAR111	
Sample Number:	51438		51440		51441	
Sample Location:	LB1-SG		LC2-SG		LC3-SG	
Sample Volume (ml):	0.50		0.50		0.50	
Dilution multiplier:	10		10		10	
Date Sampled:	17 Sep 2008		17 Sep 2008		17 Sep 2008	
Date Analyzed:	17 Sep 2008		17 Sep 2008		17 Sep 2008	
Compound	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ
Vinyl Chloride	U	50	U	50	U	50
1,1-Dichloroethene	U	5.0	U	5.0	U	5.0
trans-1,2-Dichloroethene	U	5.0	U	5.0	U	5.0
cis-1,2-Dichloroethene	6.0	5.0	U	5.0	U	5.0
Trichloroethene	440	5.0	64	5.0	55	5.0
Tetrachloroethene	U	5.0	U	5.0	U	5.0

Results are in part per billion by volume (ppbv)

U = None detected at or above the limit of quantitation (LOQ)

Table 4 (continued)
Results of Target Compounds for Volatile Organic Compounds in Soil Gas Samples
Carter Carburetor Site
Saint Louis, Missouri
November 2008

Data File:	CAR112	CAR115
Sample Number:	51442	51429
Sample Location:	LC4-SG	C2-SG
Sample Volume (ml):	0.50	0.50
Dilution multiplier:	10	10
Date Sampled:	17 Sep 2008	17 Sep 2008
Date Analyzed:	17 Sep 2008	17 Sep 2008

Compound	Conc. (ppbv)	LOQ	Conc. (ppbv)	LOQ
Vinyl Chloride	U	50	U	50
1,1-Dichloroethene	U	5.0	U	5.0
trans-1,2-Dichloroethene	U	5.0	U	5.0
cis-1,2-Dichloroethene	U	5.0	U	5.0
Trichloroethene	43	5.0	200	5.0
Tetrachloroethene	U	5.0	15	5.0

Results are in part per billion by volume (ppbv)

U = None detected at or above the limit of quantitation (LOQ)

Table 5
Replicate Summary for Volatile Organic Compounds in Soil Gas Samples
Carter Carburetor Site
Saint Louis, Missouri
November 2008

Data File:	CAR028	CAR032
Sample Number:	51359	51359
Sample Location:	F1-SG	F1-SG Rep
Sample Volume (ml):	5.0	5.0
Dilution multiplier:	1	1
Date Sampled:	16 Sep 2008	16 Sep 2008
Date Analyzed:	16 Sep 2008	16 Sep 2008

Compound	Conc. (ppbv)	Conc. (ppbv)	RPD
Vinyl Chloride	U	U	NC
1,1-Dichloroethene	U	U	NC
trans-1,2-Dichloroethene	U	U	NC
cis-1,2-Dichloroethene	U	U	NC
Trichloroethene	15	15	0.0
Tetrachloroethene	5.2	4.8	8.0

Data File:	CAR115	CAR113
Sample Number:	51429	51429
Sample Location:	C2-SG	C2-SG Rep.
Sample Volume (ml):	0.50	0.50
Dilution multiplier:	10	10
Date Sampled:	17 Sep 2008	17 Sep 2008
Date Analyzed:	17 Sep 2008	17 Sep 2008

Compound	Conc. (ppbv)	Conc. (ppbv)	RPD
Vinyl Chloride	U	U	NC
1,1-Dichloroethene	U	U	NC
trans-1,2-Dichloroethene	U	U	NC
cis-1,2-Dichloroethene	U	U	NC
Trichloroethene	200	120	50
Tetrachloroethene	15	14	6.9

Results are in part per billion by volume (ppbv)
U = None detected at or above the limit of quantitation (LOQ)
RPD = Relative percent difference
NC = Not calculable

APPENDIX A

Chain of Custody Records

Carter Carburetor

GC/MS Analytical Report

November 2008

ERT
REAC, Edison, NJ
EPA Contract Number: EP-C-04-032
(732) 321-4200

CHAIN OF CUSTODY RECORD
Site #: 0-362
Contact Name: Amy Dubois

No: 0-362-09/16/08-0001

Lab: TAGA Mobile Laboratory
Lab Phone: 609-865-6650

Lab #	Sample #	Location	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative
	51350	F4-SG	VOCs	Soil Gas	Grab	9/16/2008	08:58	1	1-liter Tedlar bag	None
	51351	G4-SG	VOCs	Soil Gas	Grab	9/16/2008	09:04	1	1-liter Tedlar bag	None
	51352	H4-SG	VOCs	Soil Gas	Grab	9/16/2008	09:08	1	1-liter Tedlar bag	None
	51353	H3-SG	VOCs	Soil Gas	Grab	9/16/2008	09:14	1	1-liter Tedlar bag	None
	51354	G3-SG	VOCs	Soil Gas	Grab	9/16/2008	09:21	1	1-liter Tedlar bag	None
	51355	H2-SG	VOCs	Soil Gas	Grab	9/16/2008	09:28	1	1-liter Tedlar bag	None
	51356	H1-SG	VOCs	Soil Gas	Grab	9/16/2008	09:35	1	1-liter Tedlar bag	None
	51357	G1-SG	VOCs	Soil Gas	Grab	9/16/2008	09:42	1	1-liter Tedlar bag	None
	51358	G2-SG	VOCs	Soil Gas	Grab	9/16/2008	09:48	1	1-liter Tedlar bag	None
	51359	F1-SG	VOCs	Soil Gas	Grab	9/16/2008	09:53	1	1-liter Tedlar bag	None
	51360	F2-SG	VOCs	Soil Gas	Grab	9/16/2008	09:58	1	1-liter Tedlar bag	None
	51362	A1-SG	VOCs	Soil Gas	Grab	9/16/2008	10:36	1	1-liter Tedlar bag	None
	51363	A2-SG	VOCs	Soil Gas	Grab	9/16/2008	10:41	1	1-liter Tedlar bag	None
	51364	B2-SG	VOCs	Soil Gas	Grab	9/16/2008	10:46	1	1-liter Tedlar bag	None
	51365	B3-SG	VOCs	Soil Gas	Grab	9/16/2008	11:43	1	1-liter Tedlar bag	None
	51366	A3-SG	VOCs	Soil Gas	Grab	9/16/2008	11:00	1	1-liter Tedlar bag	None
	51367	A4-SG	VOCs	Soil Gas	Grab	9/16/2008	14:14	1	1-liter Tedlar bag	None
	51368	C1-SG	VOCs	Soil Gas	Grab	9/16/2008	11:17	1	1-liter Tedlar bag	None
	51369	C3-SG	VOCs	Soil Gas	Grab	9/16/2008	11:25	1	1-liter Tedlar bag	None

Special Instructions: Sample #s 51381 and 51407 are to be re-sampled.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All Analysis	[signature]	9/16/08	[signature]	9/16/08	1830						

ERT
REAC, Edison, NJ
EPA Contract Number: EP-C-04-032
(732) 321-4200

CHAIN OF CUSTODY RECORD
Site #: 0-362
Contact Name: Amy Dubois

No: 0-362-09/16/08-0001

Lab: TAGA Mobile Laboratory
Lab Phone: 609-865-6650

Lab #	Sample #	Location	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative
	51370	E1-SG	VOCs	Soil Gas	Grab	9/16/2008	12:07	1	1-liter Tedlar bag	None
	51371	D1-SG	VOCs	Soil Gas	Grab	9/16/2008	12:15	1	1-liter Tedlar bag	None
	51372	D2-SG	VOCs	Soil Gas	Grab	9/16/2008	11:58	1	1-liter Tedlar bag	None
	51373	E3-SG	VOCs	Soil Gas	Grab	9/16/2008	12:25	1	1-liter Tedlar bag	None
	51374	D3-SG	VOCs	Soil Gas	Grab	9/16/2008	14:21	1	1-liter Tedlar bag	None
	51375	E4-SG	VOCs	Soil Gas	Grab	9/16/2008	12:43	1	1-liter Tedlar bag	None
	51376	D5-SG	VOCs	Soil Gas	Grab	9/16/2008	14:28	1	1-liter Tedlar bag	None
	51377	C6-SG	VOCs	Soil Gas	Grab	9/16/2008	14:33	1	1-liter Tedlar bag	None
	51378	C5-SG	VOCs	Soil Gas	Grab	9/16/2008	14:43	1	1-liter Tedlar bag	None
	51379	C7-SG	VOCs	Soil Gas	Grab	9/16/2008	14:48	1	1-liter Tedlar bag	None
	51380	B7-SG	VOCs	Soil Gas	Grab	9/16/2008	14:54	1	1-liter Tedlar bag	None
	51381	B8-SG	VOCs	Soil Gas	Grab	9/16/2008	14:57	1	1-liter Tedlar bag	None
	51383	B4-SG	VOCs	Soil Gas	Grab	9/16/2008	15:33	1	1-liter Tedlar bag	None
	51384	C4-SG	VOCs	Soil Gas	Grab	9/16/2008	15:36	1	1-liter Tedlar bag	None
	51386	B5-SG	VOCs	Soil Gas	Grab	9/16/2008	15:44	1	1-liter Tedlar bag	None
	51392	C8-SG	VOCs	Soil Gas	Grab	9/16/2008	08:58	1	1-liter Tedlar bag	None
	51394	B10-SG	VOCs	Soil Gas	Grab	9/16/2008	16:41	1	1-liter Tedlar bag	None
	51395	B11-SG	VOCs	Soil Gas	Grab	9/16/2008	16:45	1	1-liter Tedlar bag	None
	51398	C11-SG	VOCs	Soil Gas	Grab	9/16/2008	17:06	1	1-liter Tedlar bag	None

Special Instructions: Sample #s 51381 and 51407 are to be re-sampled.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All Analysis	[signature]	9/16/08	[signature]	9/16/08	1830						

ERT
REAC, Edison, NJ
EPA Contract Number: EP-C-04-032
(732) 321-4200

CHAIN OF CUSTODY RECORD
Site #: 0-362
Contact Name: Amy Dubois

No: 0-362-09/16/08-0001

Lab: TAGA Mobile Laboratory
Lab Phone: 609-865-6650

Lab #	Sample #	Location	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative
	51399	C12-SG	VOCs	Soil Gas	Grab	9/16/2008	17:11	1	1-liter Tedlar bag	None
	51400	C10-SG	VOCs	Soil Gas	Grab	9/16/2008	17:14	1	1-liter Tedlar bag	None
	51401	D12-SG	VOCs	Soil Gas	Grab	9/16/2008	17:24	1	1-liter Tedlar bag	None
	51402	E12-SG	VOCs	Soil Gas	Grab	9/16/2008	17:26	1	1-liter Tedlar bag	None
	51403	E11-SG	VOCs	Soil Gas	Grab	9/16/2008	17:29	1	1-liter Tedlar bag	None
	51405	D10-SG	VOCs	Soil Gas	Grab	9/16/2008	17:38	1	1-liter Tedlar bag	None
	51406	E10-SG	VOCs	Soil Gas	Grab	9/16/2008	18:05	1	1-liter Tedlar bag	None
	51407	E9-SG	VOCs	Soil Gas	Grab	9/16/2008	17:45	1	1-liter Tedlar bag	None
	51409	D8-SG	VOCs	Soil Gas	Grab	9/16/2008	17:52	1	1-liter Tedlar bag	None
	51410	E8-SG	VOCs	Soil Gas	Grab	9/16/2008	17:54	1	1-liter Tedlar bag	None
	51411	E7-SG	VOCs	Soil Gas	Grab	9/16/2008	17:58	1	1-liter Tedlar bag	None
	51412	D7-SG	VOCs	Soil Gas	Grab	9/16/2008	18:01	1	1-liter Tedlar bag	None

Special Instructions: Sample #s 51381 and 51407 are to be re-sampled.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
AL/Analysis		9/16/08		9/16/08	1830						

ERT
REAC, Edison, NJ
EPA Contract Number: EP-C-04-032
(732) 321-4200

CHAIN OF CUSTODY RECORD
Site #: 0-362
Contact Name: Amy Dubois

No: 0-362-09/17/08-0002

Lab: TAGA Mobile Laboratory
Lab Phone: 609-865-6650

Lab #	Sample #	Location	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative
	51413	F3-SG	VOCs	Soil Gas	Grab	9/17/2008	10:15	1	1-liter Tedlar bag	None
	51414	A5-SG	VOCs	Soil Gas	Grab	9/17/2008	10:38	1	1-liter Tedlar bag	None
	51415	A6-SG	VOCs	Soil Gas	Grab	9/17/2008	10:42	1	1-liter Tedlar bag	None
	51416	A7-SG	VOCs	Soil Gas	Grab	9/17/2008	10:47	1	1-liter Tedlar bag	None
	51417	A8-SG	VOCs	Soil Gas	Grab	9/17/2008	10:51	1	1-liter Tedlar bag	None
	51418	A9-SG	VOCs	Soil Gas	Grab	9/17/2008	10:56	1	1-liter Tedlar bag	None
	51419	A10-SG	VOCs	Soil Gas	Grab	9/17/2008	11:01	1	1-liter Tedlar bag	None
	51420	B12-SG	VOCs	Soil Gas	Grab	9/17/2008	11:07	1	1-liter Tedlar bag	None
	51421	C9-SG	VOCs	Soil Gas	Grab	9/17/2008	11:13	1	1-liter Tedlar bag	None
	51422	B9-SG	VOCs	Soil Gas	Grab	9/17/2008	11:23	1	1-liter Tedlar bag	None
	51423	B8-SG	VOCs	Soil Gas	Grab	9/17/2008	11:27	1	1-liter Tedlar bag	None
	51424	B6-SG	VOCs	Soil Gas	Grab	9/17/2008	1133	1	1-liter Tedlar bag	None
	51425	D6-SG	VOCs	Soil Gas	Grab	9/17/2008	11:44	1	1-liter Tedlar bag	None
	51426	E5-SG	VOCs	Soil Gas	Grab	9/17/2008	11:49	1	1-liter Tedlar bag	None
	51427	E9-SG	VOCs	Soil Gas	Grab	9/17/2008	11:55	1	1-liter Tedlar bag	None
	51429	C2-SG	VOCs	Soil Gas	Grab	9/17/2008	12:15	1	1-liter Tedlar bag	None
	51430	LA1-SG	VOCs	Soil Gas	Grab	9/17/2008	13:51	1	1-liter Tedlar bag	None
	51431	LA2-SG	VOCs	Soil Gas	Grab	9/17/2008	13:59	1	1-liter Tedlar bag	None
	51432	LA3-SG	VOCs	Soil Gas	Grab	9/17/2008	14:04	1	1-liter Tedlar bag	None

Special Instructions: Sample #s 51423 and 51427 are re-samples.	**SAMPLES TRANSFERRED FROM**
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
RL/Analysis	[signature]	9/17/08	[signature]	9/17/08	1600						

ERT
REAC, Edison, NJ
EPA Contract Number: EP-C-04-032
(732) 321-4200

CHAIN OF CUSTODY RECORD
Site #: 0-362
Contact Name: Amy Dubois

No: 0-362-09/17/08-0002

Lab: TAGA Mobile Laboratory
Lab Phone: 609-865-6650

Lab #	Sample #	Location	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative
	51433	LA4-SG	VOCs	Soil Gas	Grab	9/17/2008	14:12	1	1-liter Tedlar bag	None
	51434	LA5-SG	VOCs	Soil Gas	Grab	9/17/2008	14:17	1	1-liter Tedlar bag	None
	51435	LB4-SG	VOCs	Soil Gas	Grab	9/17/2008	14:24	1	1-liter Tedlar bag	None
	51436	LB3-SG	VOCs	Soil Gas	Grab	9/17/2008	14:32	1	1-liter Tedlar bag	None
	51437	LB2-SG	VOCs	Soil Gas	Grab	9/17/2008	14:37	1	1-liter Tedlar bag	None
	51438	LB1-SG	VOCs	Soil Gas	Grab	9/17/2008	14:43	1	1-liter Tedlar bag	None
	51440	LC2-SG	VOCs	Soil Gas	Grab	9/17/2008	14:57	1	1-liter Tedlar bag	None
	51441	LC3-SG	VOCs	Soil Gas	Grab	9/17/2008	15:05	1	1-liter Tedlar bag	None
	51442	LC4-SG	VOCs	Soil Gas	Grab	9/17/2008	15:14	1	1-liter Tedlar bag	None

Special Instructions: Sample #s 51423 and 51427 are re-samples.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All Analysis	[signature]	9/17/08	[signature]	9/17/08	1600						

APPENDIX B

Certificates of Analysis

Carter Carburetor

GC/MS Analytical Report

November 2008

AIR LIQUIDE

Scott Specialty Gases
Air Liquide America Specialty Gases LLC

CUSTOM CLASS

6141 EASTON ROAD, BLDG 1, PLUMSTEADVILLE, PA 18949-0310 Phone: 800-331-4953 Fax: 215-766-7226

CERTIFICATE OF ACCURACY: Custom Class Calibration Standard

Product Information
Project No.: 01-77176-001
Item No.: 0102B201270ZAL
P.O. No.: 7100037646

Cylinder Number: ALM057539
Cylinder Size: AL
Certification Date: 07Mar2008
Expiration Date: 07Mar2009

Customer

LOCKHEED MARTIN
BAY F
2890 WOODBRIDGE AVE
BUILDING 209
EDISON, NJ 08837

CERTIFIED CONCENTRATION

Component Name	Concentration (Moles)	Accuracy (+/-%)
4-BROMOFLUOROBENZENE	1.02 PPM	10
NITROGEN	BALANCE	

TRACEABILITY

Description	Traceability Type	Traceable To
ANALYTICAL TRACEABILITY	GAS STANDARDS	

APPROVED BY: GENYA KOGUT

DATE: 03/07/08

Spectra Gases, Inc.

3434 Route 22 West, Branchburg, New Jersey 08876 USA

ISO 9001:2000

SHIPPED FROM: 80 INDUSTRIAL DRIVE ALPHA, NJ. 08865

SHIPPED TO: Lockheed Martin Environmental Services
2890 Woodbridge Ave.
Edison, NJ 08837-3679

CERTIFICATE OF ANALYSIS

SGI ORDER # : 120022
ITEM# : 2
CERTIFICATION DATE: 12/04/2007
P.O.# : CC-G BALL
BLEND TYPE: CERTIFIED

CYLINDER # : CC-172915
CYLINDER PRES: 1950 psig
CYLINDER VALVE: CGA 350
PRODUCT EXPIRATION DATE: 12/04/2008

ANALYTICAL ACCURACY: +/-5%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Bromochloromethane	1.00 ppm	1.03 ppm
1,4-Difluorobenzene	1.00 ppm	1.06 ppm
Chlorobenzene-d5	1.00 ppm	1.07 ppm
Nitrogen	Balance	Balance

ANALYST: Lou Lorenzetti

DATE: 12/04/2007

Tel: +1 908-252-9300 Fax: +1 908-252-0811
www.spectragases.com

Spectra Gases, Inc.

3434 Route 22 West, Branchburg, New Jersey 08876 USA

ISO 9001:2000

SHIPPED FROM: 80 INDUSTRIAL DRIVE ALPHA, NJ. 08865

SHIPPED TO: Lockheed Martin / REAC
GSA Raritan Depot, Bldg. 209
2890 Woodbridge Ave.
Edison, NJ 08837

CERTIFICATE OF ANALYSIS

SGI ORDER # : 114624
ITEM# : 1
CERTIFICATION DATE: 10/01/2007
P.O.# : CC-C Shields
BLEND TYPE: CERTIFIED

CYLINDER # : CC-256138
CYLINDER PRES: 355 psig
CYLINDER VALVE: CGA 350
PRODUCT EXPIRATION DATE: 10/01/2008

ANALYTICAL ACCURACY: +/- 5%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Vinyl Chloride	20.0 ppm	20.7 ppm
1,1-Dichloroethene	20.0 ppm	20.4 ppm
Trans-1,2-Dichloroethylene	20.0 ppm	21.1 ppm
1,1- Dichloroethane	20.0 ppm	20.4 ppm
Methyl Tert Butyl Ether	20.0 ppm	20.5 ppm
Cis-1,2-Dichloroethylene	20.0 ppm	20.4 ppm
1,1,1-Trichloroethane	20.0 ppm	20.4 ppm
Benzene	20.0 ppm	20.2 ppm
Trichloroethylene	20.0 ppm	20.6 ppm
Toluene	20.0 ppm	20.4 ppm
Tetrachloroethylene	20.0 ppm	20.1 ppm
Ethylbenzene	20.0 ppm	20.0 ppm
p-Xylene	20.0 ppm	19.7 ppm
m-Xylene	20.0 ppm	19.7 ppm
o-Xylene	20.0 ppm	19.7 ppm
Nitrogen	Balance	Balance

ANALYST: Lou Lorenzetti

DATE: 10/01/2007

Tel: +1 908-252-9300 Fax: +1 908-252-0811
www.spectragases.com

Spectra Gases, Inc.

3434 Route 22 West, Branchburg, New Jersey 08876 USA

ISO 9001:2000

SHIPPED FROM: 80 INDUSTRIAL DRIVE ALPHA, NJ 08865

SHIPPED TO: Lockheed Martin
2890 Woodbridge Ave.
Edison, NJ 08837

CERTIFICATE OF ANALYSIS

SGI ORDER # :	124783		
ITEM# :	1	**CYLINDER # :**	CC-256175
CERTIFICATION DATE:	03/03/2008	**CYLINDER PRES:**	1650 psig
P.O.# :	CC-C Shields	**CYLINDER VALVE:**	CGA 350
BLEND TYPE:	CERTIFIED	**PRODUCT EXPIRATION DATE:**	03/03/2009

ANALYTICAL ACCURACY: +-5%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Vinyl Chloride	500 ppb	495 ppb
1,1-Dichloroethene	500 ppb	539 ppb
Trans-1,2-Dichloroethene	500 ppb	533 ppb
1,1-Dichloroethane	500 ppb	530 ppb
Methyl Tert Butyl Ether	500 ppb	529 ppb
Cis-1,2-Dichloroethene	500 ppb	516 ppb
1,1,1-Trichloroethane	500 ppb	521 ppb
Benzene	500 ppb	526 ppb
Trichloroethylene	500 ppb	524 ppb
Toluene	500 ppb	535 ppb
Tetrachloroethylene	500 ppb	519 ppb
Ethylbenzene	500 ppb	514 ppb
p-xylene	500 ppb	520 ppb
m-xylene	500 ppb	520 ppb
o-xylene	500 ppb	512 ppb
Nitrogen	Balance	Balance

ANALYST: Lou Lorenzetti

DATE: 03/03/2008

Tel: +1 908-252-9300 Fax: +1 908-252-0811
www.spectragases.com

APPENDIX C

Calibration Data

Carter Carburetor

GC/MS Analytical Report

November 2008

Sept. 15, 2008 JM

Connected Loop injection unit. System had been pumped down and oven maintained at 125°C over weekend. Tune looks good. Tune report generated.

CAR001	5 ml BFB @ 1 ppmV		ok
Reset clock			
CAR002	5 ml BFB @ 1 ppmV		ok
CAR003	STD20080915-1	10 ppmV ICAL Std.	ok
CAR004	STD20080915-2	1 ppmV ICAL Std.	ok
CAR005	STD20080915-3	500 ppbV " "	OK
CAR006	STD20080915-4	50 ppbV " "	OK
CAR007	STD20080915-5	5 ppbV " "	ok
CAR008	STD20080915-6	0.5 ppbV " "	ok
CAR009	STD20080915-ICV	500 ppbV 2nd Source	DNU
CAR010	STD20080915-ICV	500 ppbV 2nd Source	ok
CAR011	20080915-MB	Method Blank	DNU
CAR012	20080915-MB	Method Blank	ok

Initial Calibration Preparation

STD20080915-1 10 ppmV ICAL
500 ml 20 ppmV CC256138
500 ml N_2

STD20080915-2 1 ppmV ICAL
100 ml - 1
900 ml - N_2

STD20080915-3 500 ppbV ICAL
50 ml - 1
950 ml - N_2

STD20080915-4 50 ppbV ICAL
100 ml - 3
900 ml - N_2

STD20080915-5 5 ppbV ICAL
100 ml - 4
900 ml - N_2

STD20080915-6 0.5 ppbV ICAL
100 ml - 5
900 ml - N_2

STD20080915-ICV 500 ppbV
2nd Source Cert 196

BFB Method = BFB.M
Analytical Method = Loop SIMPSLESS_A.M
Quant Method = Loop20080915.M

J McCall 9/15/08
Signature Date

Sept. 16, 2008 Jm Loop20080915.M - Method

	CAR013	5ml BFB @ 1ppmv		ok
	CAR014	STD20080916-3 500ppbv CCal Std.		ok
	CAR015	20080916-MB 5ml IS.		DNU
	CAR016	20080916-MB / Method Blank 5ml IS		ok
	CAR017	20080916-LB / Lot Blank N_2 + 5ml IS		ok
	CAR018	20080916-LCS / 500ppbv 2nd Source Cert 196		ok
new tank	CAR019	51350 / F4-SG 5ml		ok
	CAR020	51352 / H4-SG 5ml		ok
	CAR021	51351 / G4-SG 5ml		ok
	CAR022	51353 / H3-SG 5ml		ok
	CAR023	51354 / G3-SG 5ml		ok
	CAR024	51355 / H2-SG 5ml		ok
	CAR025	51356 / H1-SG 5ml		ok
	CAR026	51357 / G1-SG 5ml		ok
	CAR027	51358 / G2-SG 5ml		ok
	CAR028	51359 / F1-SG 5ml		
	CAR029	51359 / F1-SG Rep 5ml	Poor injection	DNU
	CAR030	51360 / F2-SG 5ml		ok ~~DNU~~
	CAR031	51367 / A4-SG	GC ERROR No Acquisition	DNU
	CAR032	51359 / F1-SG Rep 5ml		ok
	CAR033	51362 / A1-SG 5ml		ok
	CAR034	51363 / A2-SG 5ml		ok
	CAR035	51372 / D2-SG 5ml	Rerun @ 10x	ok
	CAR036	51364 / B2-SG 5ml		ok
	CAR037	51365 / B3-SG 5ml		ok
	CAR038	51372 / D2-SG 0.5ml	10x	ok
new tank	CAR039	51366 / A3-SG 5ml		ok
	CAR040	51368 / C1-SG 5ml		ok
	CAR041	51369 / C3-SG 5ml		ok
	CAR042	51367 / A4-SG 5ml		ok
	CAR043	51370 / E1-SG 5ml		ok
	CAR044	51371 / D1-SG 5ml	Rerun @ 10x	ok
	CAR045	51373 / E3-SG 5ml		ok
	CAR046	51374 / D3-SG 5ml		ok

Continued on Page

Read and Understood By

McCall 9/17/08
Signed Date Signed Date

Continued From Page 54

Sept. 16, 2008 (continued)

CAR047	51375 / E4-SG	5ml			ok
CAR048	51376 / D5-SG	5ml	Rerun @ 10x (No re-run done)		ok
~~CAR049~~	~~51371 / D1-SG~~	~~0.5ml~~	~~10x~~		—
~~CAR050~~	~~51378 / C5-SG~~	~~5ml~~			—
CAR049	51377 / C6-SG	5ml			ok
CAR050	51371 / D1-SG	0.5ml	10x		ok
CAR051	51378 / C5-SG	5ml	RR @ 10x (no re-run done)		ok
CAR052	51379 / C7-SG	5ml			ok
CAR053	51380 / B7-SG	0.5ml	10x		ok
CAR054	51381 / B8-SG	0.5ml	Rerun @ 100x		ok
CAR055	51383 / B4-SG	0.5ml	Frozen solenoid		ok
CAR056	51384 / C4-SG	0.5ml	10x		ok
CAR057	51386 / B5-SG	0.5			ok
CAR058	51394 / B10-SG	0.5			
CAR059	51395 / B11-SG	0.5			
CAR060	51392 / C8-SG	0.5			
CAR061	51400 / C10-SG	0.5			
CAR062	51398 / C11-SG	0.5			
CAR063	51399 / C12-SG	0.5			
CAR064	51412 / D7-SG	0.5			
CAR065	51409 / D8-SG	0.5			
CAR066	51405 / D10-SG	0.5			
CAR067	51401 / D12-SG	0.5			
CAR068	51411 / E7-SG	0.5			
CAR069	51410 / E8-SG	0.5			
CAR070	51407 / E9-SG	0.5	To be re-sampled		DNU
CAR071	51406 / E10-SG	0.5	10x		ok
CAR072	51403 / E11-SG	0.5			
CAR073	51402 / E12-SG	0.5			

Continued on Page

Read and Understood By

McCall 9/17/08

Signed Date Signed Date

Sept. 17, 2008 Loop 20080917.M = quant method

Returned.

	CAR074	BFB 5ml @ 1 ppmV	ok
	CAR075	STD20080917-1 10 ppmV	
	CAR076	STD20080917 -2 1 ppmV	
	CAR077	-3 500 ppbV	
	CAR078	-4 50 ppbV	
	CAR079	-5 5 ppbV	
	CAR080	-6 0.5 ppbV	ok
	CAR081	STD20080917 - ICV 500 ppbV 2nd source cert 196	ok
new tank	CAR082	20080917 - MB / Method Blank 5ml IS	ok
	CAR083	20080917 - LB / Lot Blank 5ml IS + N_2	ok
	CAR084	20080917 - LCS 500 ppbV 2nd Source cert 196	ok
	CAR085	51413 / F3-SG 5ml	ok
	CAR086	51414 / A5-SG 0.5ml	ok
	CAR087	51415 / A6-SG 0.5 ml	
	CAR088	51416 / A7-SG 0.5 ml	
	CAR089	51417 / A8-SG 0.5 ml	
	CAR090	51418 / A9-SG 0.5 ml	
	CAR091	51419 / A10-SG 0.5 ml	
	CAR092	51420 / B12-SG 0.5 ml	
	CAR093	51421 / C9-SG 0.5 ml	
	CAR094	51422 / B9-SG 0.5 ml	
	CAR095	51423 / B8-SG 0.05 ml 100 x	
	CAR096	51424 / B6-SG 0.5 ml	
	CAR097	51425 / D6-SG 0.5 ml	
	CAR098	51426 / E5-SG 0.5 ml	
new tank	CAR099	51427 / E9-SG 0.5 ml	
	CAR100	51429 / C2-SG 0.5 ml Re-run	DNU
	CAR101	51430 / LA1-SG 0.5 ml	ok
	CAR102	51431 / LA2-SG 0.5 ml	
	CAR103	51432 / LA3-SG 0.5 ml	
	CAR104	51433 / LA4-SG 0.5 ml	
	CAR105	51434 / LA5-SG 0.5 ml	
	CAR106	51435 / LB4-SG 0.5 ml	

Continued on Page

Read and Understood By

J McCall 9/17/08
Signed Date Signed Date

Sept. 17, 2008 (continued)

	CAR107	51436 / LB3-SG	0.5 ml		ok
	CAR108	51437 / LB2-SG	0.5 ml		
new Tank	CAR109	51438 / LB1-SG	0.5 ml		
new	CAR110	51440 / LC2-SG	0.5 ml		
	CAR111	51441 / LC3-SG	0.5 ml		
	CAR112	51442 / LC4-SG	0.5 ml		
	CAR113	51429 / C2-SG	Rep. 0.5 ml		
	CAR114	51427 / E9-SG	0.05 ml	100X	
	CAR115	51429 / C2-SG	0.5 ml		
	CAR116	20080917-LCS-2	500 ppbv	2nd Source	

See page 63 for additional text 11/4/08

Continued on Page

Read and Understood By

Danielle McCall 9/17/08

Signed Date Signed Date

11/4/08

- During data ~~it~~ review, discrepancies were noted between "Acquisition time" and "Quant Time" on some of the quantitation reports.

- Data was evaluated using Mint Miner, an electronic data auditing software, to scan files for any anomalies. None were detected.

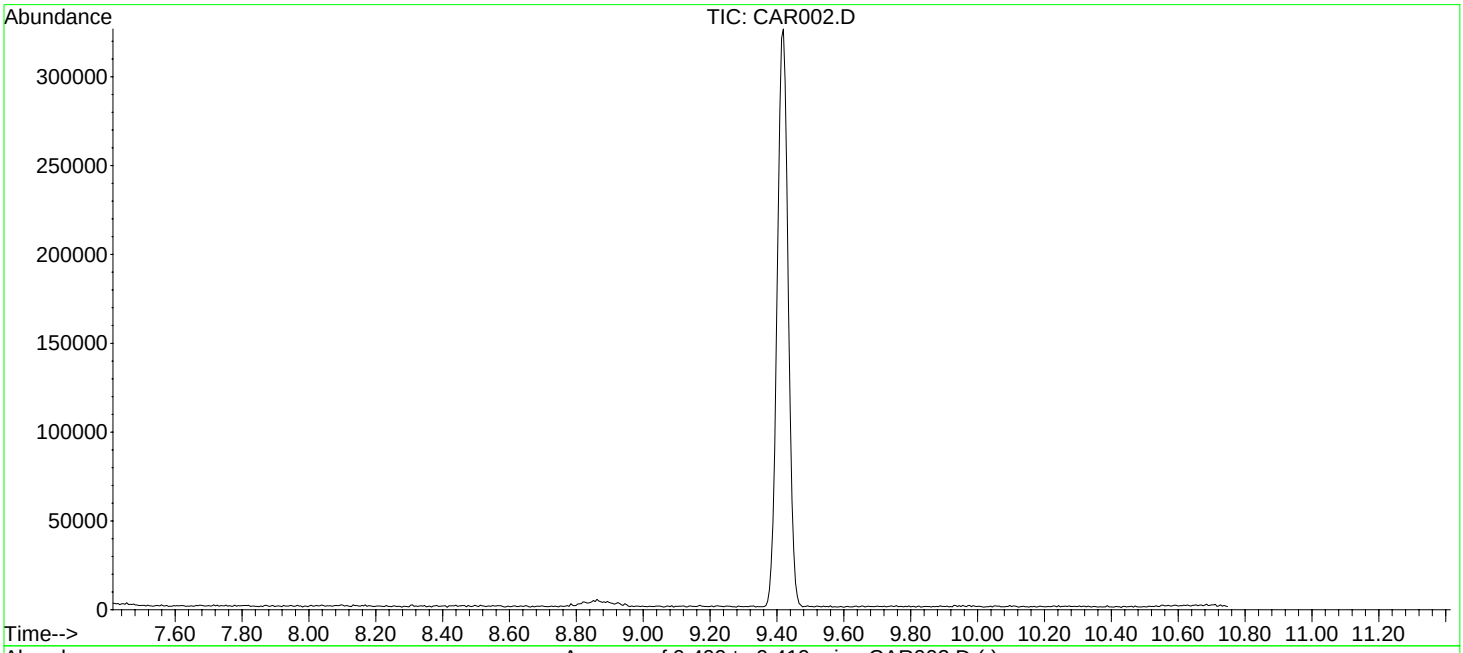
Continued on Page

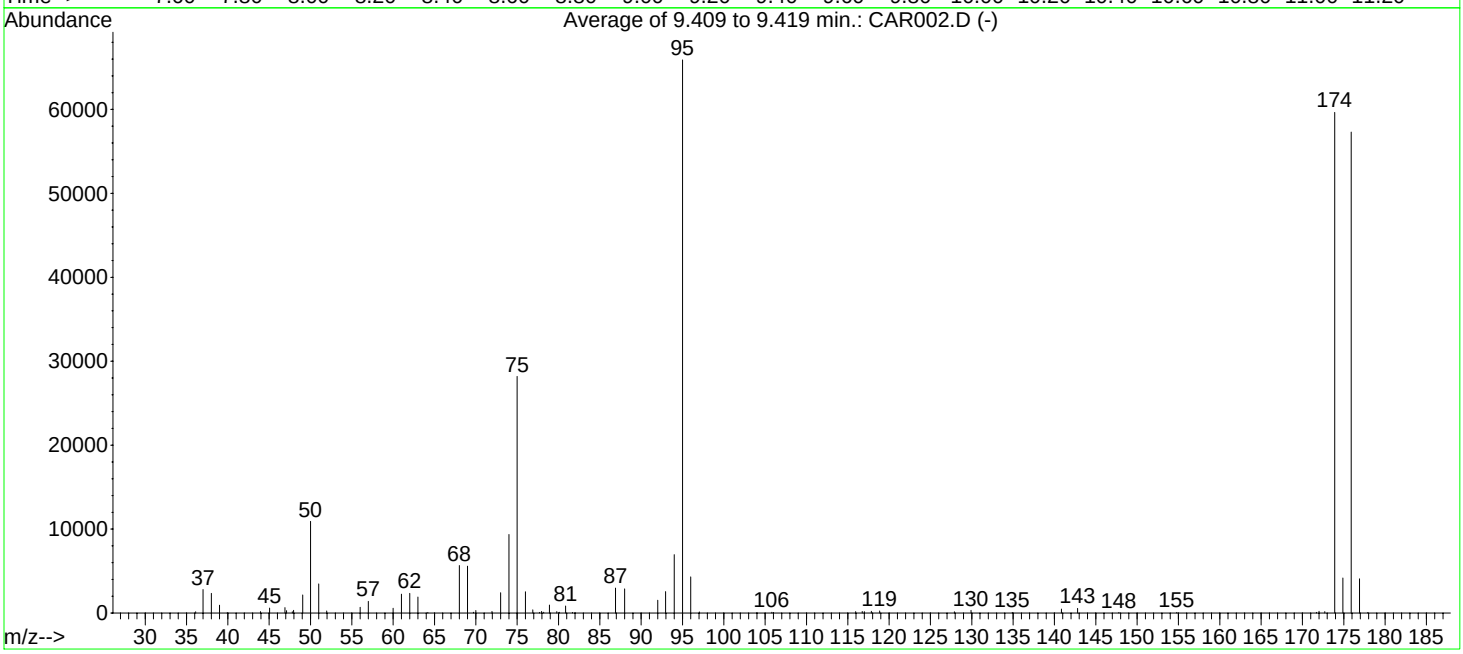
Read and Understood By

Signed 11/4/08 Date Signed Date

BFB

Data File : C:\MSDCHEM\1\DATA\20080915\CAR002.D Vial: 1
Acq On : 15 Sep 2008 14:34 Operator:
Sample : 5 ml BFB Inst : Instrumen
Misc : BFB @1ppmv Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC





AutoFind: Scans 1023, 1024, 1025; Background Corrected with Scan 1013

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.6	10920	PASS
75	95	30	66	42.8	28194	PASS
95	95	100	100	100.0	65901	PASS
96	95	5	9	6.5	4307	PASS
173	174	0.00	2	0.3	178	PASS
174	95	50	120	90.5	59653	PASS
175	174	4	9	7.0	4168	PASS
176	174	93	101	96.1	57301	PASS
177	176	5	9	7.1	4091	PASS

CAR002.D LOOP20080915.M Tue Sep 30 11:07:57 2008

GC/MS QA-QC Check Report

Tune File: C:\MSDCHEM\1\DATA\20080915\CAR002.D
Tune Time: 15 Sep 2008 14:34

Daily Calibration File: C:\MSDCHEM\1\DATA\20080915\CAR005.D

		2317	9723	12557
File	Sample	Internal	Standard	Responses
CAR003.D	STD20080915-1	2884	9886	9251
CAR004.D	STD20080915-2	2323	9210	8812
CAR006.D	STD20080915-4	2158	7916	7737
CAR007.D	STD20080915-5	2106	7714	7657
CAR008.D	STD20080915-6	2187	7698	7493
CAR009.D	STD20080915-ICV	2226	9124	10216
CAR010.D	STD20080915-ICV	2200	8595	7901
CAR011.D	20080915-MB	1950	7110	6894*
CAR012.D	20080915-MB	2059	6999	6790*

t - fails 24hr time check * - fails criteria

Created: Fri Sep 26 16:45:25 2008 Instrument

Response Factor Report Instrumen

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Mon Sep 29 09:49:45 2008
Response via : Initial Calibration

Calibration Files
10A =CAR003.D 1000 =CAR004.D 500 =CAR005.D
50 =CAR006.D 5 =CAR007.D 0.5 =CAR008.D

	Compound	10A	1000	500	50	5	0.5	Avg	%RSD
1)	Bromochloromethane	----------ISTD----------							
2)	Vinyl Chloride	0.659	0.539	0.541	0.547	0.541		0.566	9.28
3)	1,1-Dichloroeth	0.991	0.895	0.898	0.898	0.885	0.796	0.894	6.93
4)	Methyl tert-But	1.439	1.308	1.408	1.447	1.254	0.933	1.298	15.00
5)	trans-1,2-Dichl	0.833	0.830	0.832	0.868	0.819	0.860	0.840	2.31
6)	1,1-Dichloroeth	1.122	1.174	1.183	1.222	1.011	1.006	1.120	8.20
7)	cis-1,2-Dichlor	0.951	0.820	0.780	0.782	0.764	0.750	0.808	9.17
8)	1,1,1-Trichloro	1.238	1.236	1.288	1.293	1.185	1.244	1.247	3.17
9)	1,4-Difluorobenzene	----------ISTD----------							
10)	Benzene	0.412	0.444	0.415	0.496	0.566	1.304	0.606	57.20
11)	Trichloroethene	0.296	0.291	0.282	0.287	0.280	0.325	0.294	5.58
12)	Chlorobenzene-d5	----------ISTD----------							
13)	Toluene	0.525	0.613	0.419	0.602	0.606	0.873	0.606	24.76
14)	Tetrachloroethe	0.388	0.367	0.254	0.366	0.356	0.456	0.365	17.88
15)	Ethylbenzene	0.647	0.747	0.493	0.710	0.696	0.918	0.702	19.70
16)	m&p-Xylenes	0.388	0.545	0.384	0.515	0.485	0.653	0.495	20.51
17)	o-Xylene	0.554	0.562	0.383	0.529	0.501	0.870	0.566	28.66

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080915\CAR003.D Vial: 1
Acq On : 15 Sep 2008 14:59 Operator: dlm
Sample : STD20080915-1 Inst : Instrumen
Misc : 10 ppmv ICAL std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 13:38:21 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Mon Sep 15 13:24:07 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.15	49	2884	10.00 ppbv	-0.03
9) 1,4-Difluorobenzene	4.48	114	9886	10.00 ppbv	-0.05
12) Chlorobenzene-d5	5.84	117	9251	10.00 ppbv	-0.09

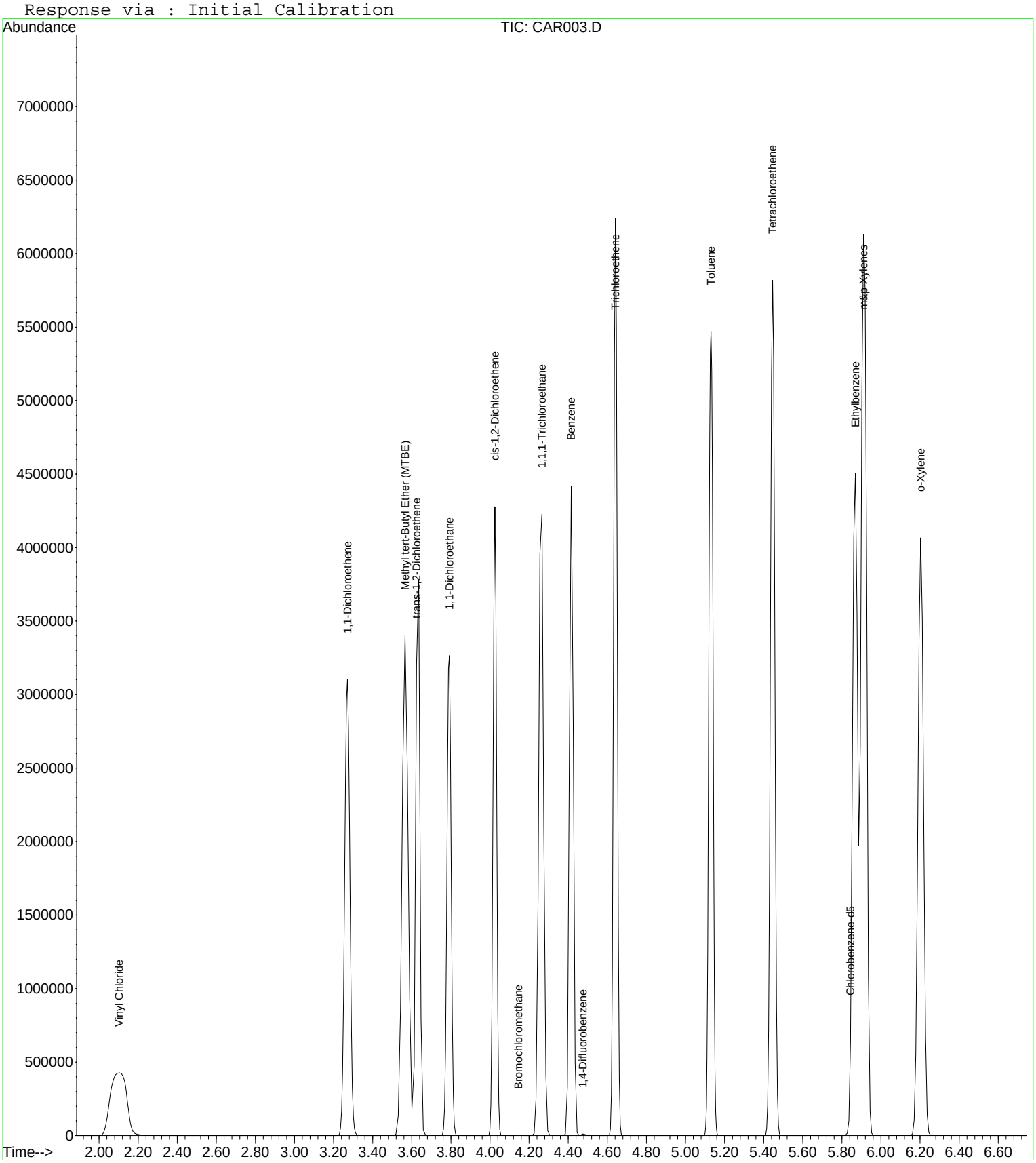
Target Compounds					Qvalue
2) Vinyl Chloride	2.10	62	1901415	11532.78 ppbv #	49
3) 1,1-Dichloroethene	3.27	61	2857379	11085.29 ppbv #	87
4) Methyl tert-Butyl Ether (M	3.57	73	4149661	10630.12 ppbv #	14
5) trans-1,2-Dichloroethene	3.62	61	2401921	9912.50 ppbv	87
6) 1,1-Dichloroethane	3.79	63	3234756	10162.65 ppbv	96
7) cis-1,2-Dichloroethene	4.02	61	2743975	11325.32 ppbv	96
8) 1,1,1-Trichloroethane	4.27	97	3569391	9915.23 ppbv	96
10) Benzene	4.42	78	4076463	6780.20 ppbv #	94
11) Trichloroethene	4.64	130	2921847	9980.70 ppbv	93
13) Toluene	5.13	91	4859615	8649.53 ppbv	87
14) Tetrachloroethene	5.45	166	3586334	10613.30 ppbv	94
15) Ethylbenzene	5.87	91	5984054	9201.12 ppbv #	81
16) m&p-Xylenes	5.91	91	7183255m	15653.84 ppbv	
17) o-Xylene	6.20	91	5126414m	9764.24 ppbv	

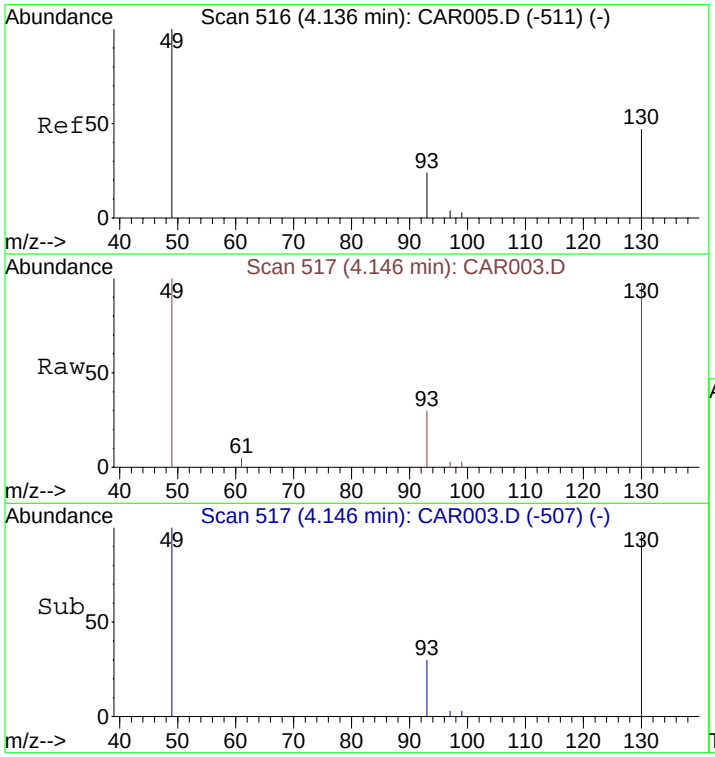
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080915\CAR003.D Vial: 1
Acq On : 15 Sep 2008 14:59 Operator: dlm
Sample : STD20080915-1 Inst : Instrumen
Misc : 10 ppmv ICAL std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 12:57 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Wed Nov 05 16:35:43 2008
Response via : Initial Calibration

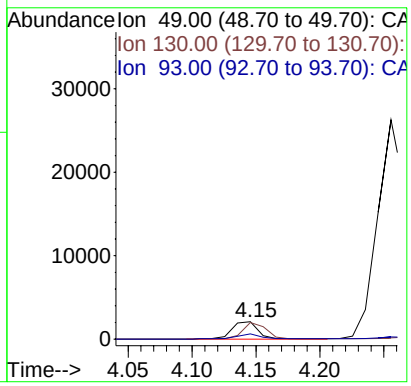


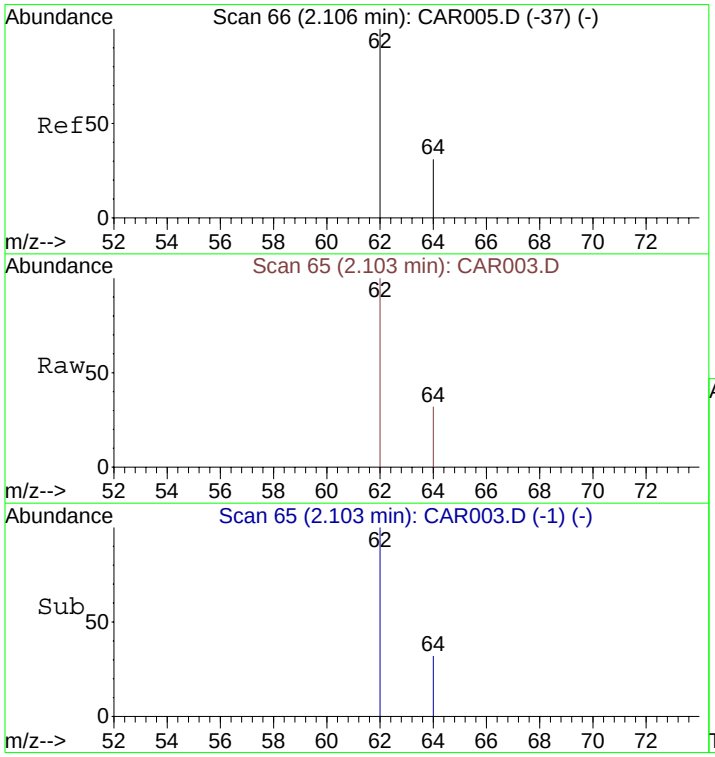


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.15 min Scan# 517
Delta R.T. -0.03 min
Lab File: CAR003.D
Acq: 15 Sep 2008 14:59

Tgt Ion: 49 Resp: 2884

Ion	Ratio	Lower	Upper
49	100		
130	86.9	65.1	97.7
93	29.7	33.8	50.6#

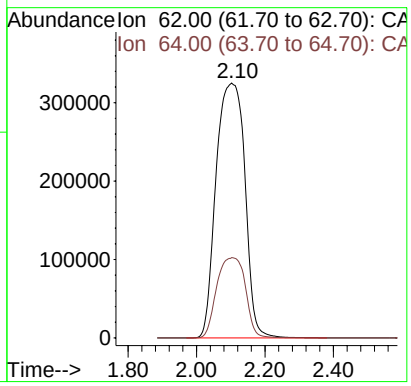


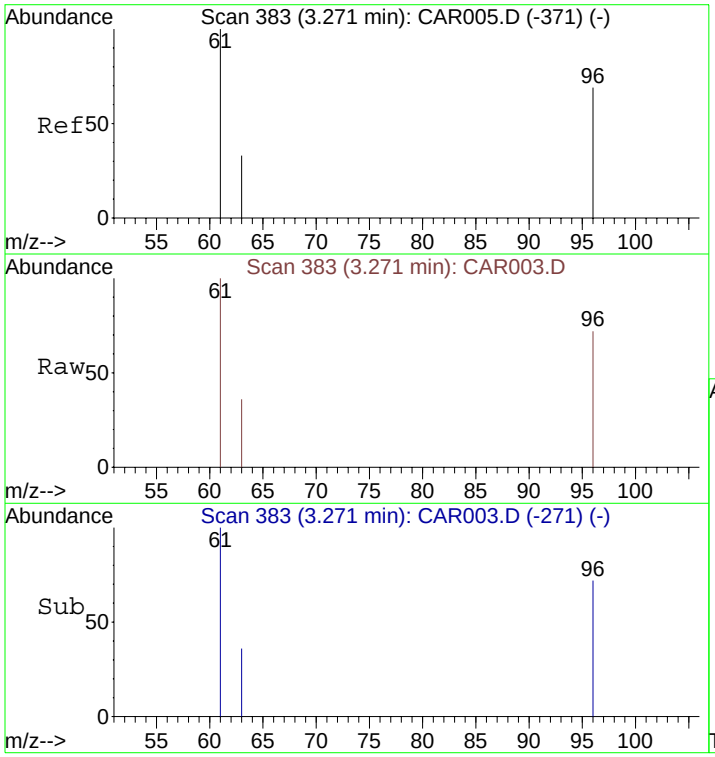


#2
Vinyl Chloride
Concen: 11532.78 ppbv
RT: 2.10 min Scan# 65
Delta R.T. -0.18 min
Lab File: CAR003.D
Acq: 15 Sep 2008 14:59

Tgt Ion: 62 Resp: 1901415

Ion	Ratio	Lower	Upper
62	100		
64	31.4	9.4	14.2#

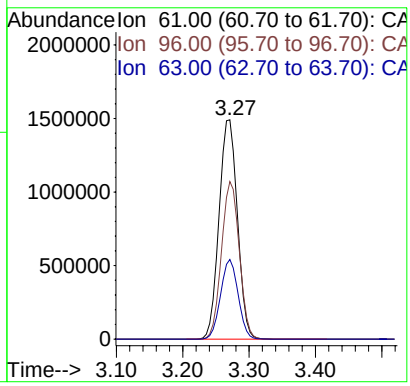


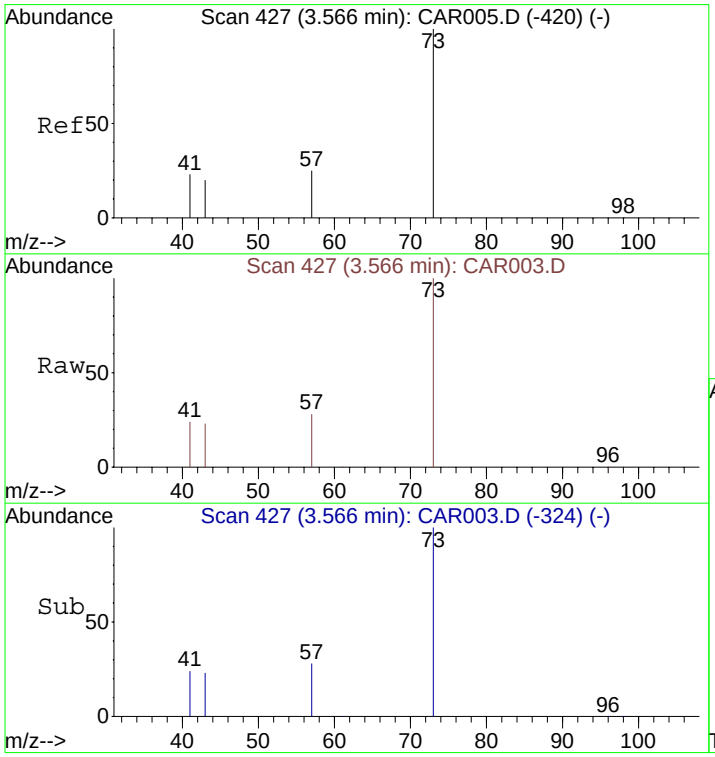


#3
1,1-Dichloroethene
Concen: 11085.29 ppbv
RT: 3.27 min Scan# 383
Delta R.T. -0.03 min
Lab File: CAR003.D
Acq: 15 Sep 2008 14:59

Tgt Ion: 61 Resp: 2857379

Ion	Ratio	Lower	Upper
61	100		
96	69.7	45.7	68.5#
63	34.7	25.0	37.4

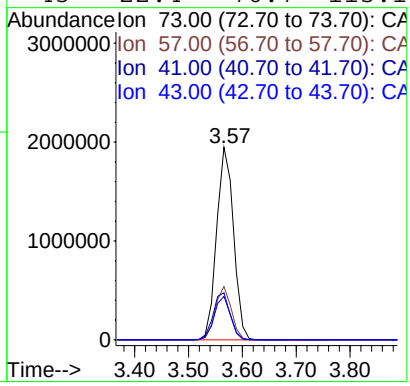


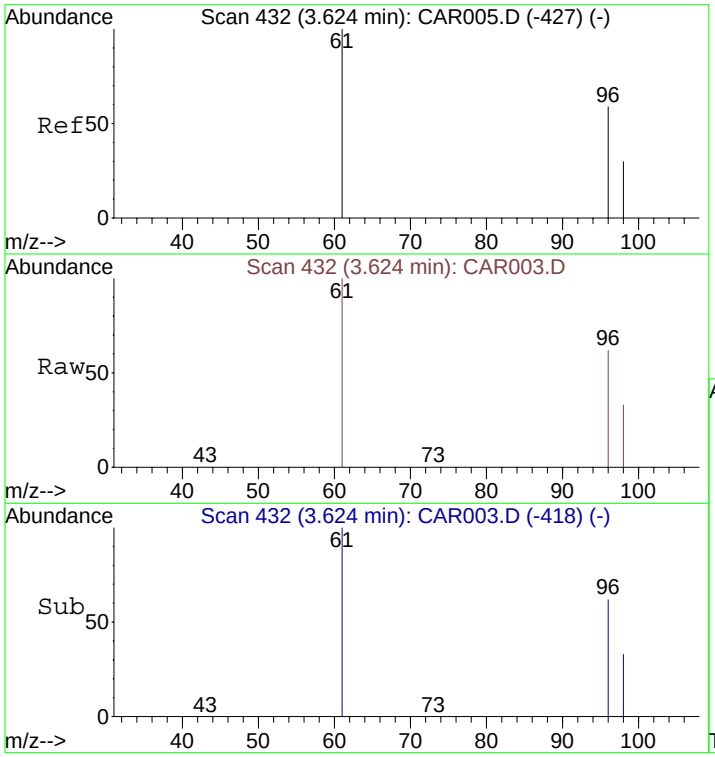


#4
Methyl tert-Butyl Ether (MTBE)
Concen: 10630.12 ppbv
RT: 3.57 min Scan# 427
Delta R.T. 0.08 min
Lab File: CAR003.D
Acq: 15 Sep 2008 14:59

Tgt Ion: 73 Resp: 4149661

Ion	Ratio	Lower	Upper
73	100		
57	26.9	32.6	49.0#
41	25.0	139.4	209.2#
43	22.4	76.7	115.1#

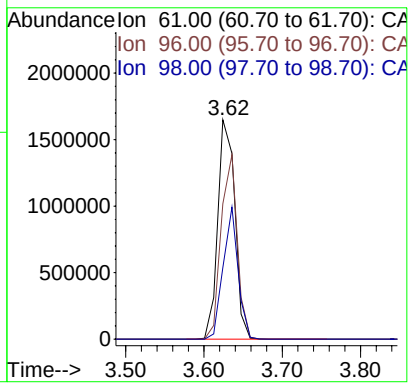


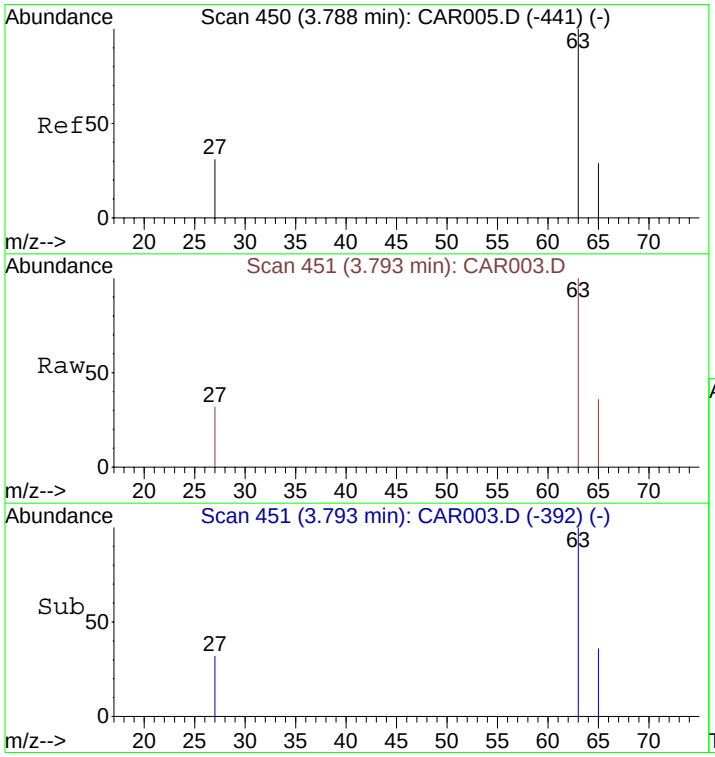


#5
trans-1,2-Dichloroethene
Concen: 9912.50 ppbv
RT: 3.62 min Scan# 432
Delta R.T. -0.03 min
Lab File: CAR003.D
Acq: 15 Sep 2008 14:59

Tgt Ion: 61 Resp: 2401921

Ion	Ratio	Lower	Upper
61	100		
96	79.7	55.0	82.4
98	52.8	35.6	53.4

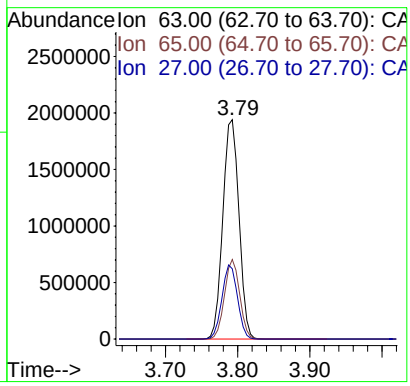


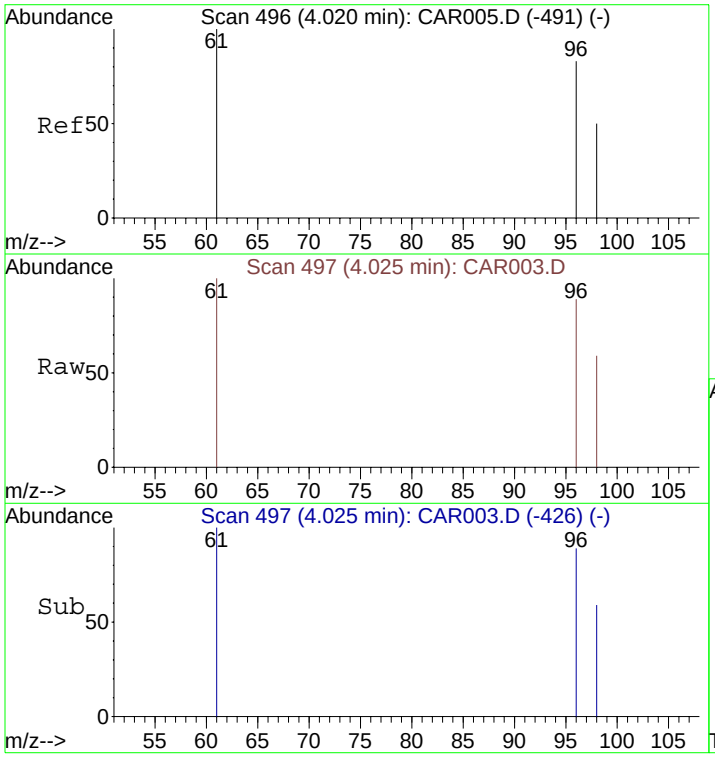


#6
1,1-Dichloroethane
Concen: 10162.65 ppbv
RT: 3.79 min Scan# 451
Delta R.T. -0.03 min
Lab File: CAR003.D
Acq: 15 Sep 2008 14:59

Tgt Ion: 63 Resp: 3234756

Ion	Ratio	Lower	Upper
63	100		
65	34.0	23.5	35.3
27	33.6	26.7	40.1

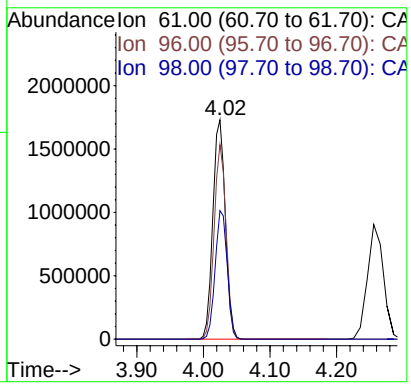


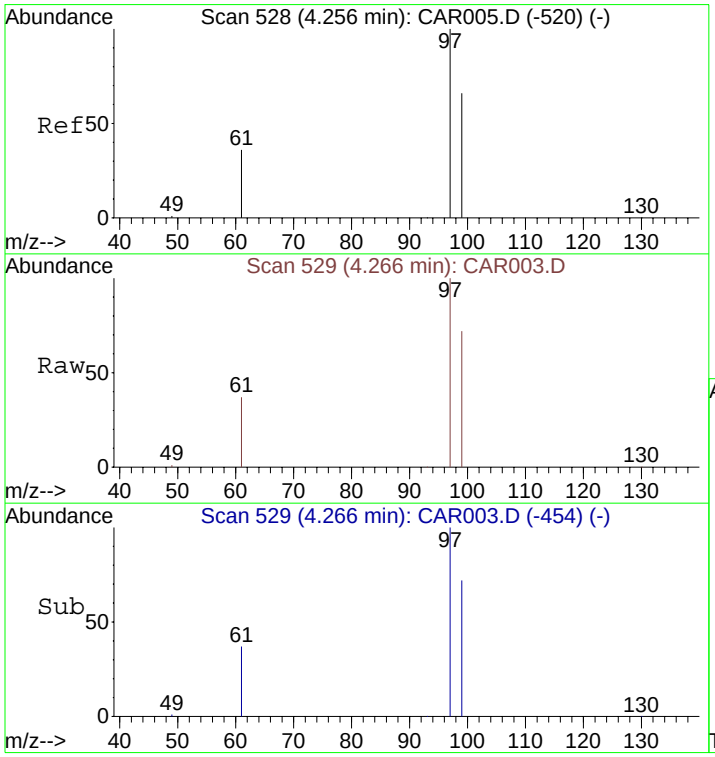


#7
cis-1,2-Dichloroethene
Concen: 11325.32 ppbv
RT: 4.02 min Scan# 497
Delta R.T. -0.03 min
Lab File: CAR003.D
Acq: 15 Sep 2008 14:59

Tgt Ion: 61 Resp: 2743975

Ion	Ratio	Lower	Upper
61	100		
96	72.8	56.0	84.0
98	48.6	36.2	54.4

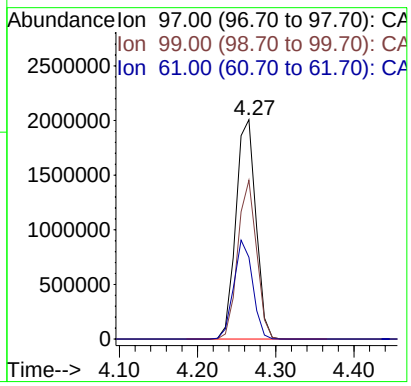


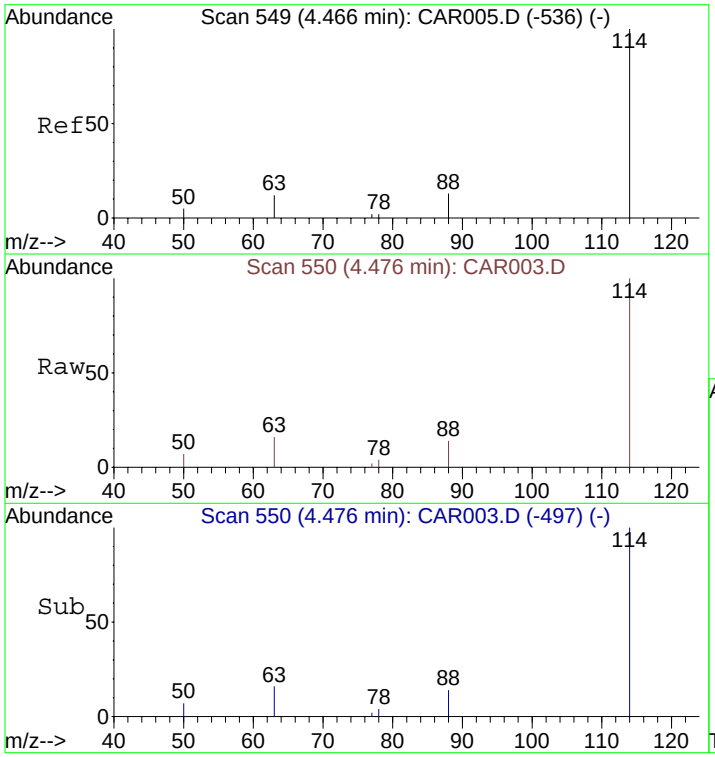


#8
1,1,1-Trichloroethane
Concen: 9915.23 ppbv
RT: 4.27 min Scan# 529
Delta R.T. -0.04 min
Lab File: CAR003.D
Acq: 15 Sep 2008 14:59

Tgt Ion: 97 Resp: 3569391

Ion	Ratio	Lower	Upper
97	100		
99	68.0	51.8	77.8
61	42.2	32.1	48.1

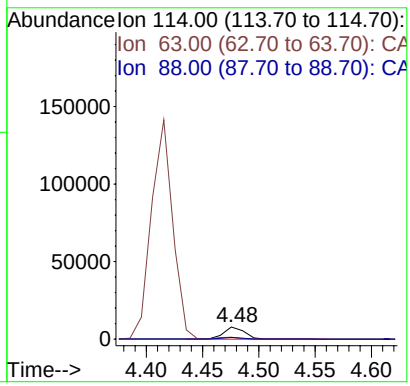


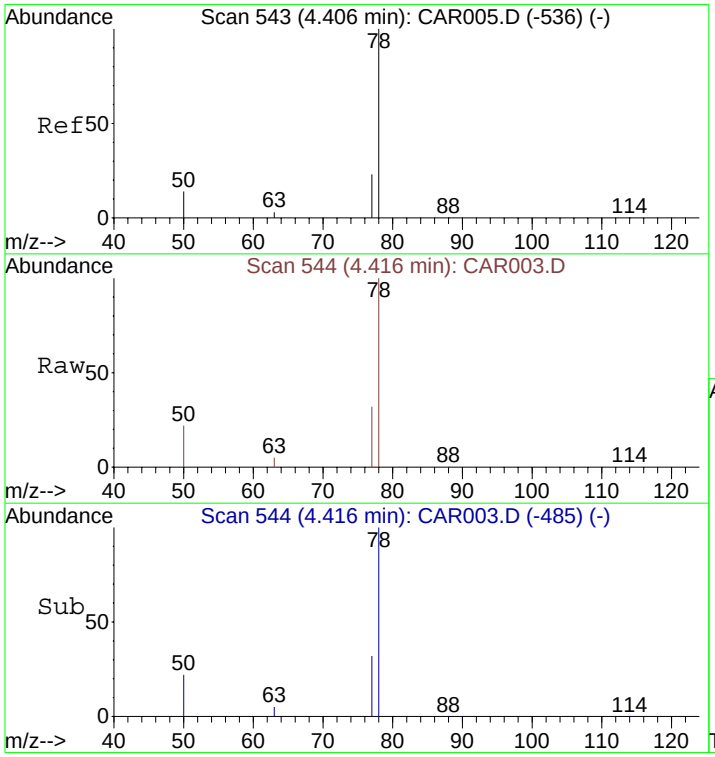


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. -0.05 min
Lab File: CAR003.D
Acq: 15 Sep 2008 14:59

Tgt Ion:114 Resp: 9886

Ion	Ratio	Lower	Upper
114	100		
63	0.0	15.8	23.8#
88	14.0	12.2	18.2

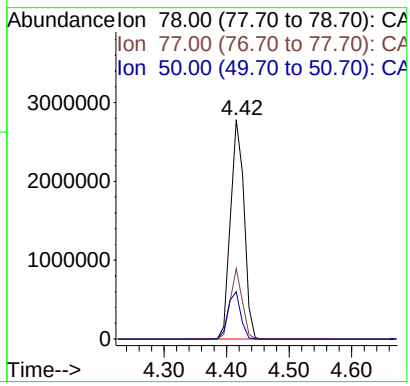


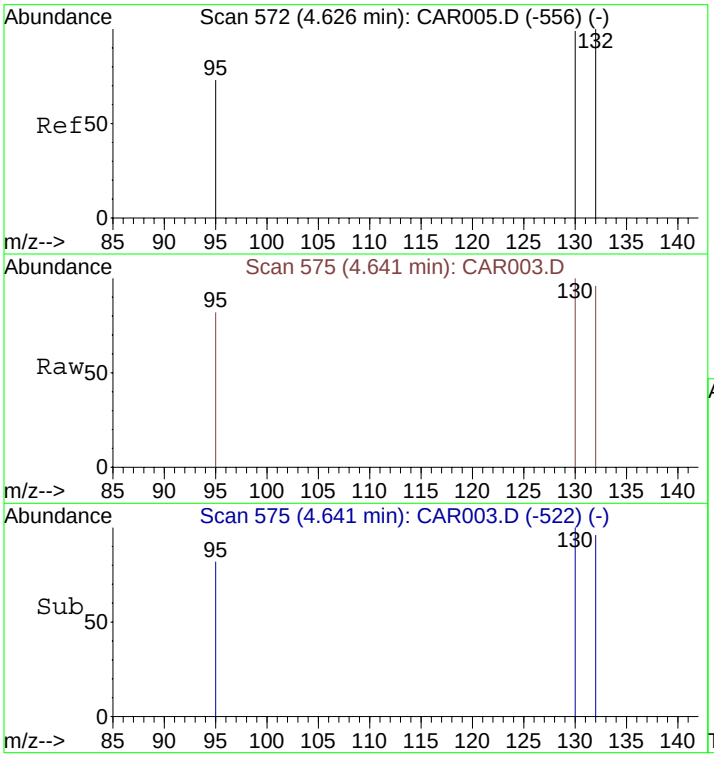


#10
Benzene
Concen: 6780.20 ppbv
RT: 4.42 min Scan# 544
Delta R.T. -0.05 min
Lab File: CAR003.D
Acq: 15 Sep 2008 14:59

Tgt Ion: 78 Resp: 4076463

Ion	Ratio	Lower	Upper
78	100		
77	28.4	18.6	28.0#
50	20.8	16.2	24.4

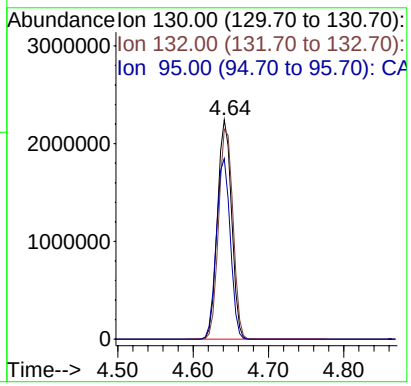


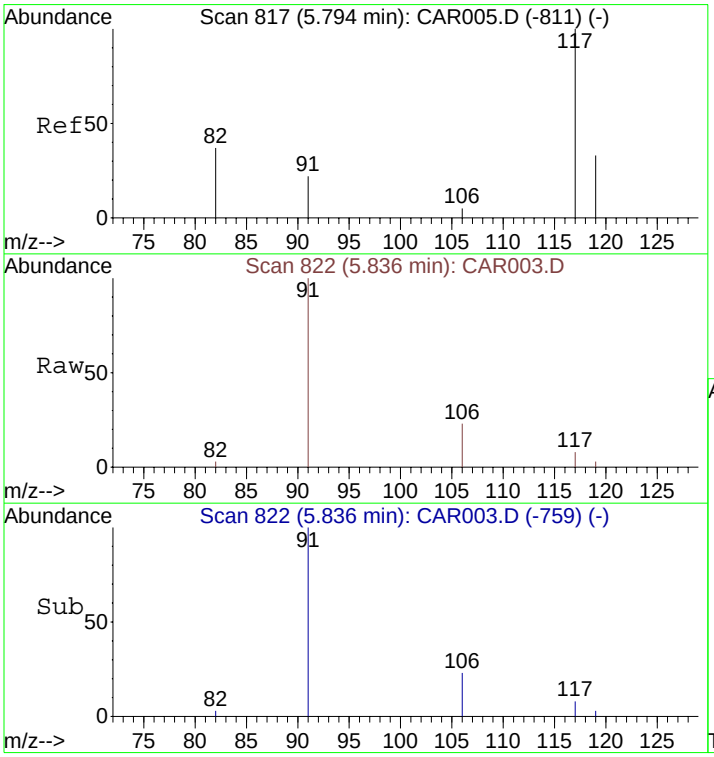


#11
Trichloroethene
Concen: 9980.70 ppbv
RT: 4.64 min Scan# 575
Delta R.T. -0.06 min
Lab File: CAR003.D
Acq: 15 Sep 2008 14:59

Tgt Ion:130 Resp: 2921847

Ion	Ratio	Lower	Upper
130	100		
132	97.4	73.8	110.6
95	81.6	72.5	108.7

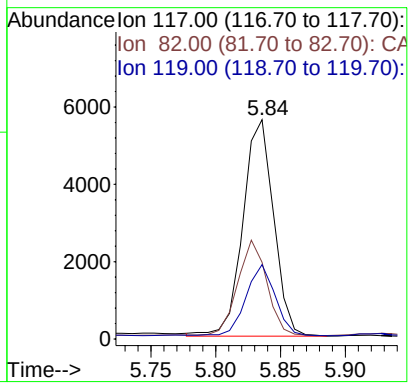


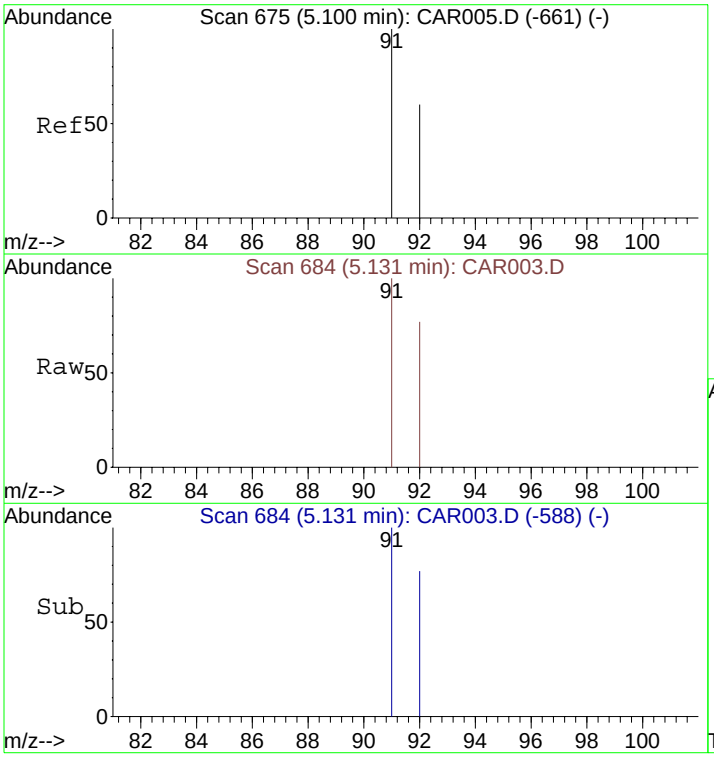


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.84 min Scan# 822
Delta R.T. -0.09 min
Lab File: CAR003.D
Acq: 15 Sep 2008 14:59

Tgt Ion:117 Resp: 9251

Ion	Ratio	Lower	Upper
117	100		
82	42.4	38.3	57.5
119	31.1	26.0	39.0

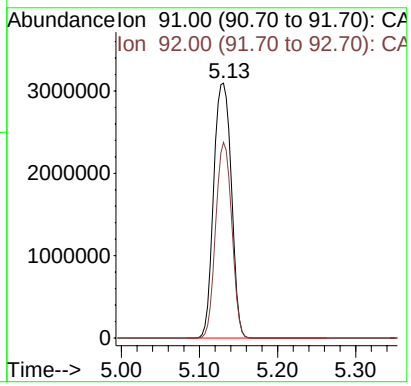


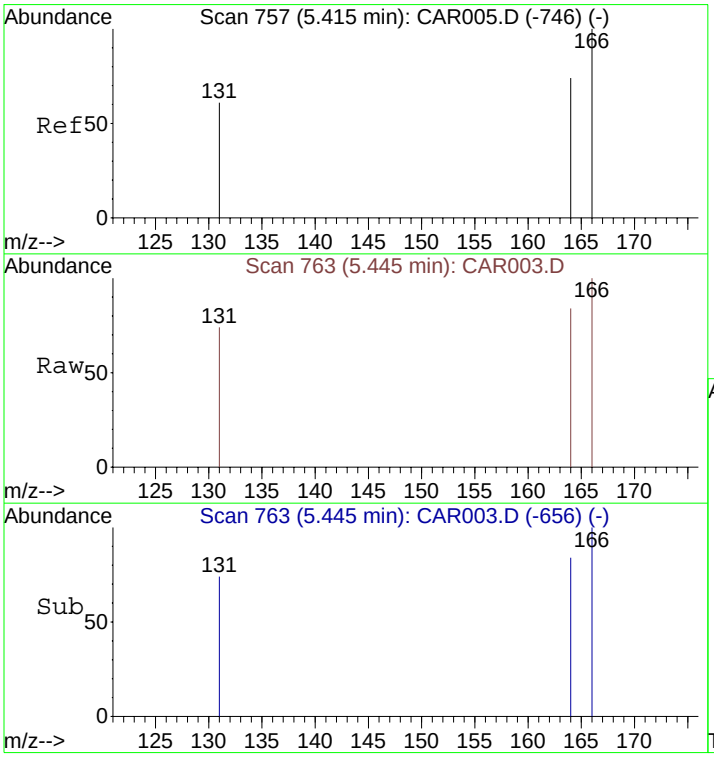


#13
Toluene
Concen: 8649.53 ppbv
RT: 5.13 min Scan# 684
Delta R.T. -0.08 min
Lab File: CAR003.D
Acq: 15 Sep 2008 14:59

Tgt Ion: 91 Resp: 4859615

Ion	Ratio	Lower	Upper
91	100		
92	70.0	48.2	72.2

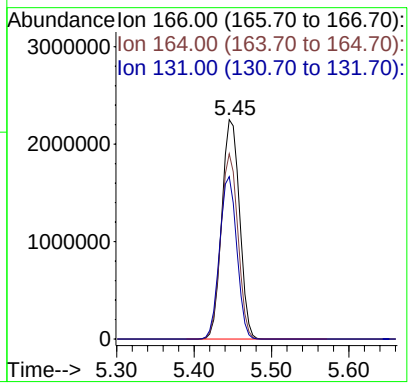


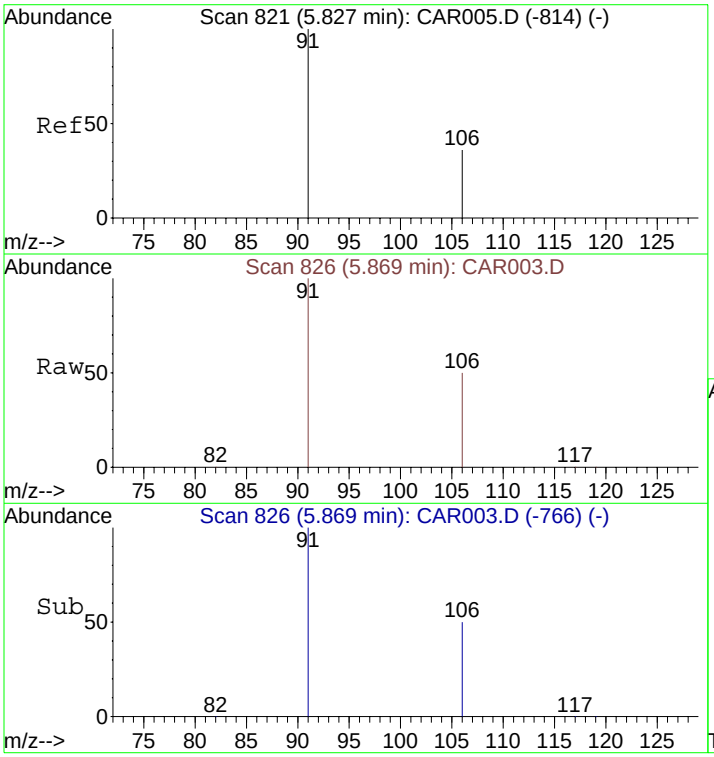


#14
Tetrachloroethene
Concen: 10613.30 ppbv
RT: 5.45 min Scan# 763
Delta R.T. -0.09 min
Lab File: CAR003.D
Acq: 15 Sep 2008 14:59

Tgt Ion:166 Resp: 3586334

Ion	Ratio	Lower	Upper
166	100		
164	82.7	63.1	94.7
131	71.8	62.9	94.3

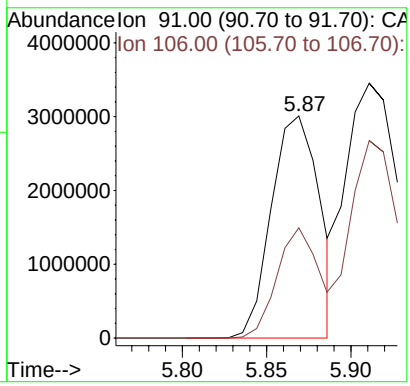


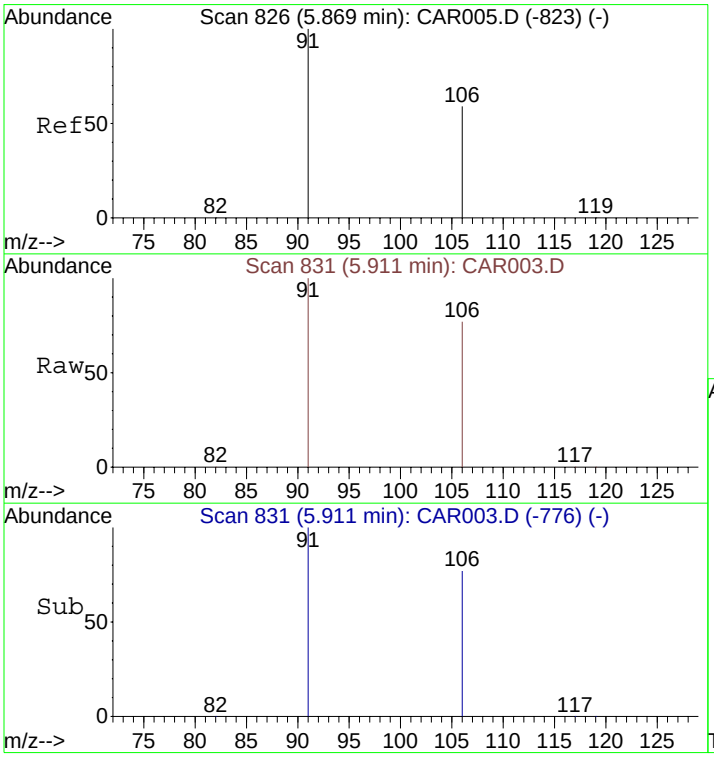


#15
Ethylbenzene
Concen: 9201.12 ppbv
RT: 5.87 min Scan# 826
Delta R.T. -0.09 min
Lab File: CAR003.D
Acq: 15 Sep 2008 14:59

Tgt Ion: 91 Resp: 5984054

Ion	Ratio	Lower	Upper
91	100		
106	43.3	26.3	39.5#

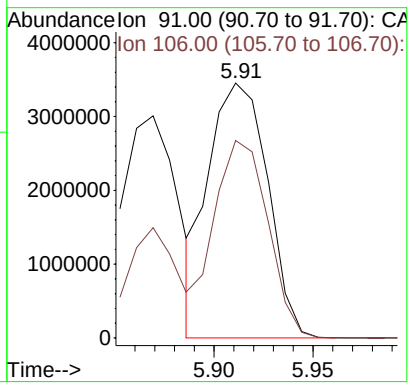


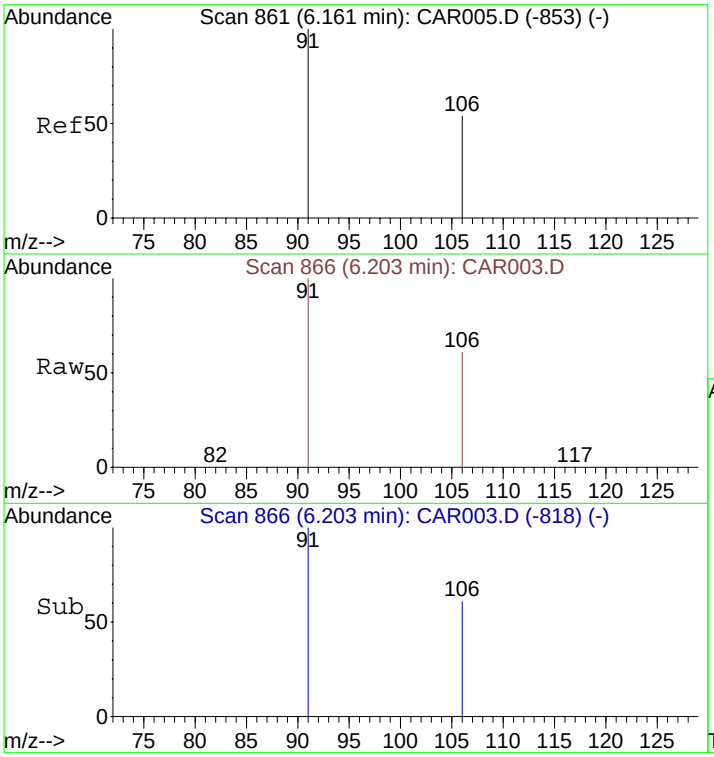


#16
m&p-Xylenes
Concen: 15653.84 ppbv m
RT: 5.91 min Scan# 831
Delta R.T. -0.10 min
Lab File: CAR003.D
Acq: 15 Sep 2008 14:59

Tgt Ion: 91 Resp: 7183255

Ion	Ratio	Lower	Upper
91	100		
106	71.0	41.8	62.8#

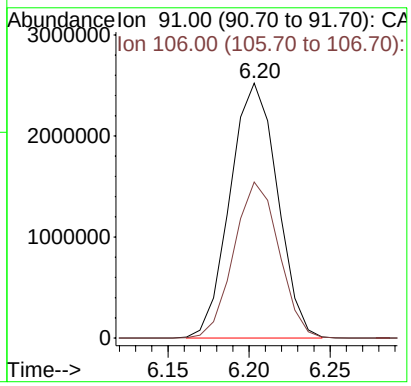




#17
o-Xylene
Concen: 9764.24 ppbv m
RT: 6.20 min Scan# 866
Delta R.T. -0.10 min
Lab File: CAR003.D
Acq: 15 Sep 2008 14:59

Tgt Ion: 91 Resp: 5126414

Ion	Ratio	Lower	Upper
91	100		
106	58.4	38.9	58.3#



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080915\CAR004.D Vial: 1
Acq On : 15 Sep 2008 15:13 Operator: dlm
Sample : STD20080915-2 Inst : Instrumen
Misc : 1 ppmv ICAL std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 13:38:42 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Mon Sep 15 13:24:07 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.14	49	2323	10.00	ppbv	-0.04
9) 1,4-Difluorobenzene	4.47	114	9210	10.00	ppbv	-0.06
12) Chlorobenzene-d5	5.79	117	8812	10.00	ppbv	-0.13

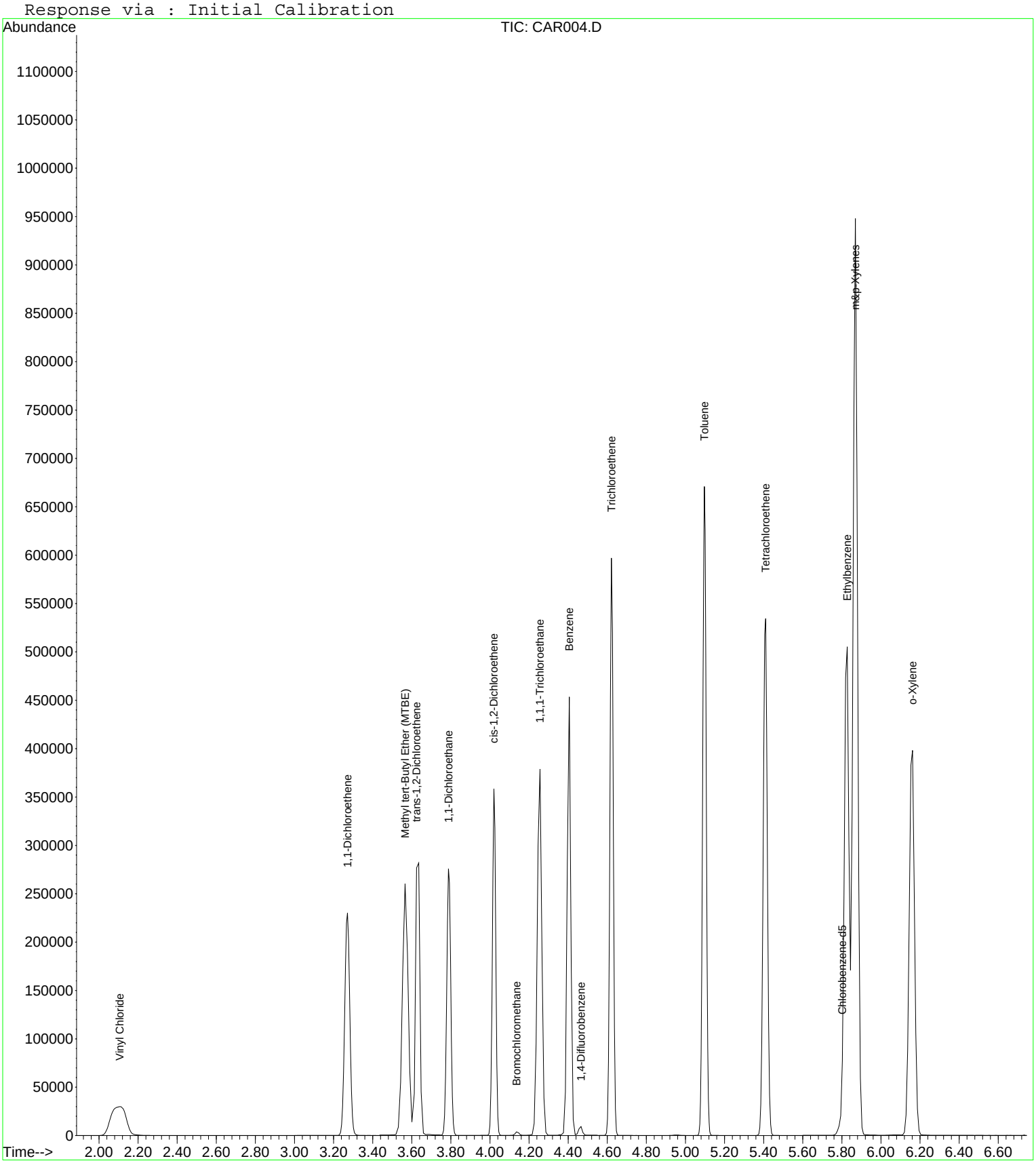
Target Compounds						Qvalue
2) Vinyl Chloride	2.11	62	125283	943.40	ppbv #	51
3) 1,1-Dichloroethene	3.27	61	207992	1001.78	ppbv	90
4) Methyl tert-Butyl Ether (M	3.57	73	303764	966.07	ppbv #	13
5) trans-1,2-Dichloroethene	3.62	61	192721	987.41	ppbv	90
6) 1,1-Dichloroethane	3.79	63	272664	1063.50	ppbv	97
7) cis-1,2-Dichloroethene	4.02	61	190538	976.33	ppbv	85
8) 1,1,1-Trichloroethane	4.26	97	287207	990.49	ppbv	97
10) Benzene	4.41	78	408652	729.58	ppbv	96
11) Trichloroethene	4.62	130	268419	984.19	ppbv	92
13) Toluene	5.10	91	540071	1009.15	ppbv	99
14) Tetrachloroethene	5.41	166	323667	1005.57	ppbv	94
15) Ethylbenzene	5.83	91	658000	1062.15	ppbv	95
16) m&p-Xylenes	5.87	91	961216	2199.05	ppbv	92
17) o-Xylene	6.16	91	495039	989.87	ppbv	92

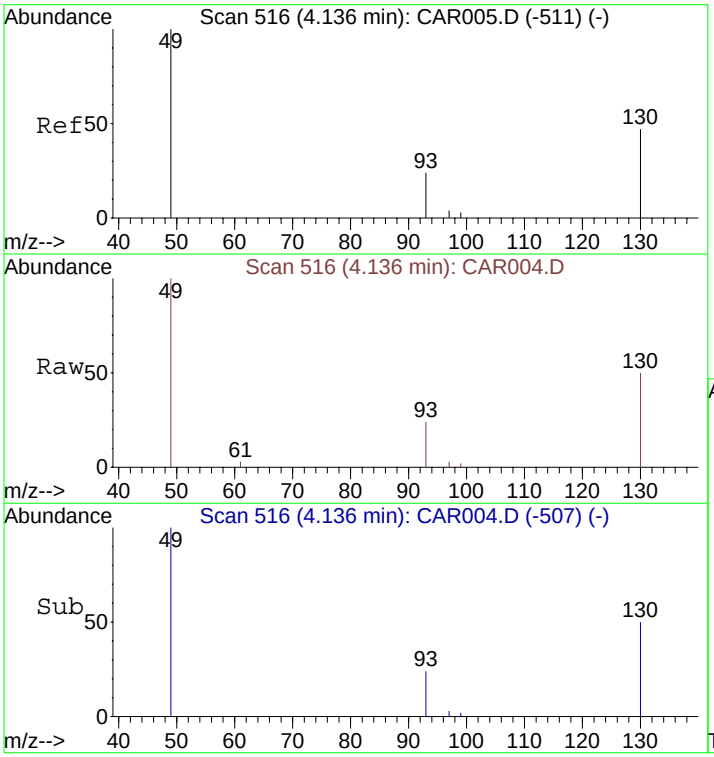
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080915\CAR004.D Vial: 1
Acq On : 15 Sep 2008 15:13 Operator: dlm
Sample : STD20080915-2 Inst : Instrumen
Misc : 1 ppmv ICAL std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 15:38 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Wed Nov 05 16:35:43 2008
Response via : Initial Calibration

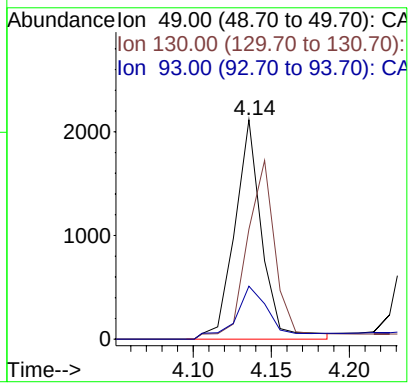


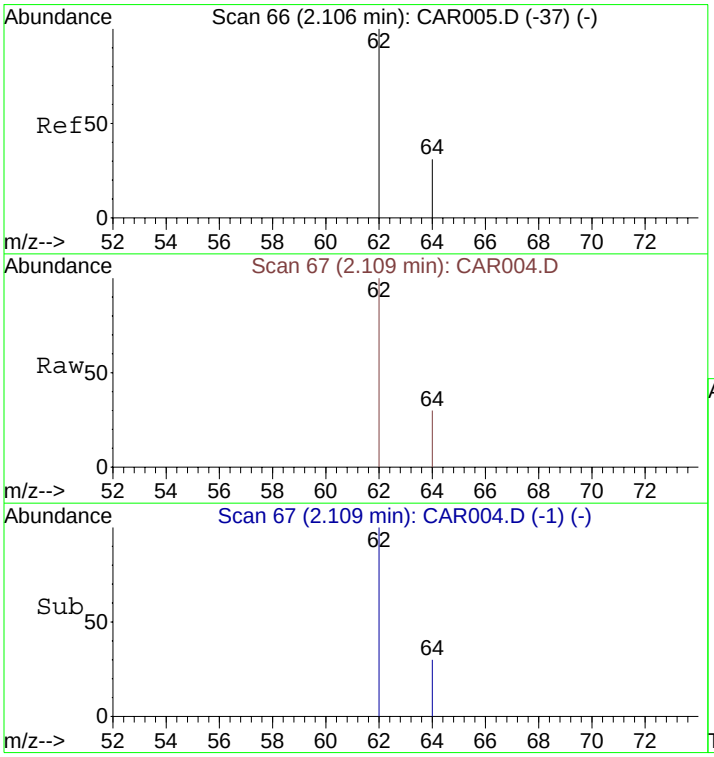


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. -0.04 min
Lab File: CAR004.D
Acq: 15 Sep 2008 15:13

Tgt Ion: 49 Resp: 2323

Ion	Ratio	Lower	Upper
49	100		
130	89.7	65.1	97.7
93	30.4	33.8	50.6#

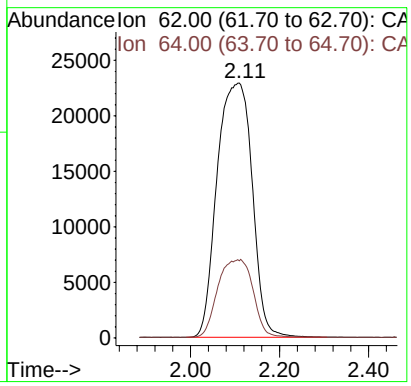


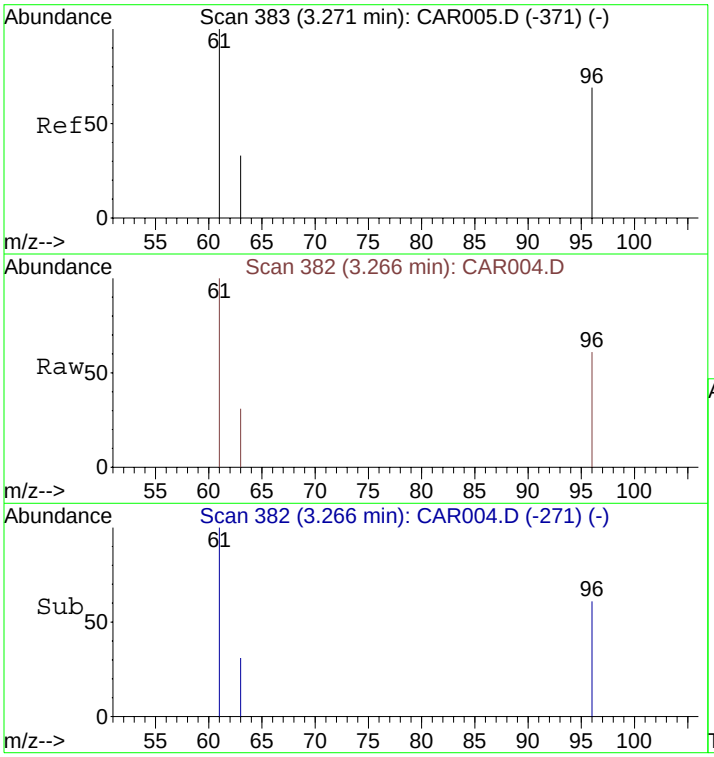


#2
Vinyl Chloride
Concen: 943.40 ppbv
RT: 2.11 min Scan# 67
Delta R.T. -0.18 min
Lab File: CAR004.D
Acq: 15 Sep 2008 15:13

Tgt Ion: 62 Resp: 125283

Ion	Ratio	Lower	Upper
62	100		
64	30.6	9.4	14.2#

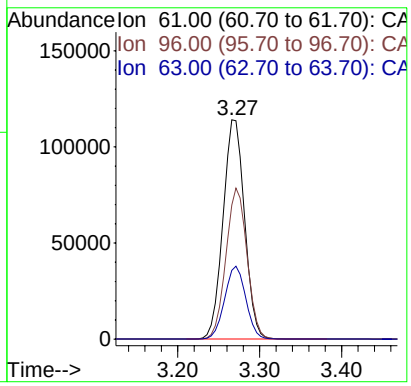


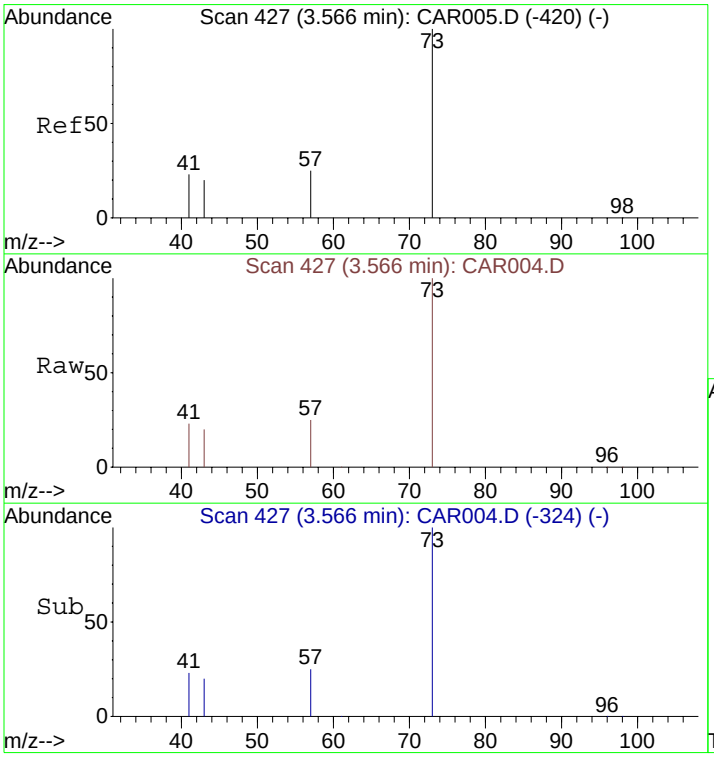


#3
1,1-Dichloroethene
Concen: 1001.78 ppbv
RT: 3.27 min Scan# 382
Delta R.T. -0.04 min
Lab File: CAR004.D
Acq: 15 Sep 2008 15:13

Tgt Ion: 61 Resp: 207992

Ion	Ratio	Lower	Upper
61	100		
96	67.3	45.7	68.5
63	32.6	25.0	37.4

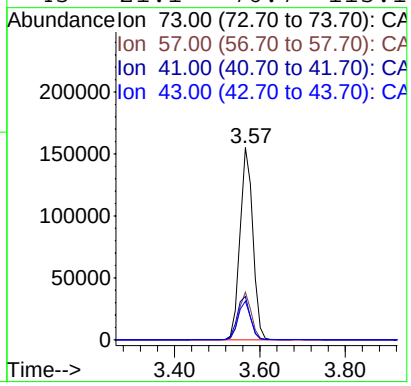


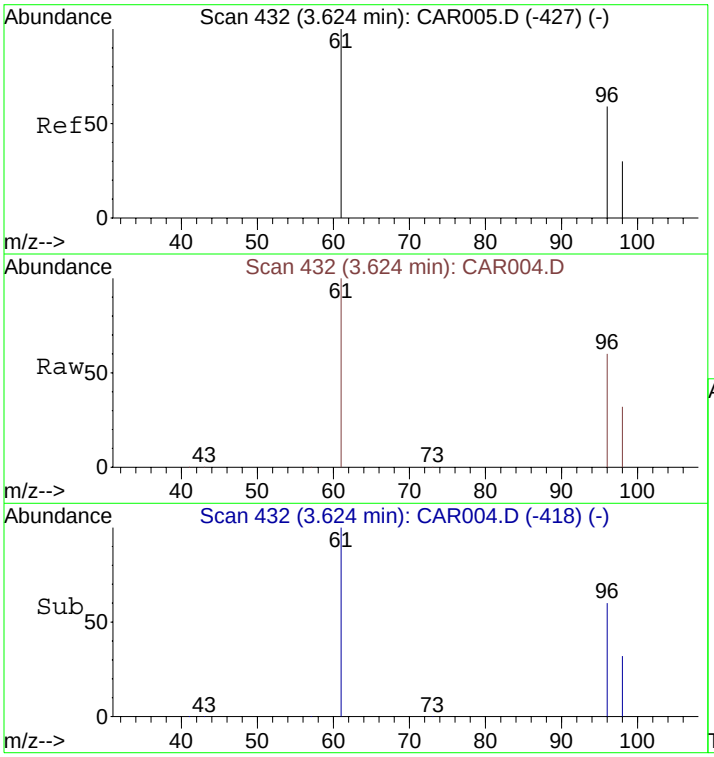


#4
Methyl tert-Butyl Ether (MTBE)
Concen: 966.07 ppbv
RT: 3.57 min Scan# 427
Delta R.T. 0.08 min
Lab File: CAR004.D
Acq: 15 Sep 2008 15:13

Tgt Ion: 73 Resp: 303764

Ion	Ratio	Lower	Upper
73	100		
57	25.4	32.6	49.0#
41	24.3	139.4	209.2#
43	21.1	76.7	115.1#

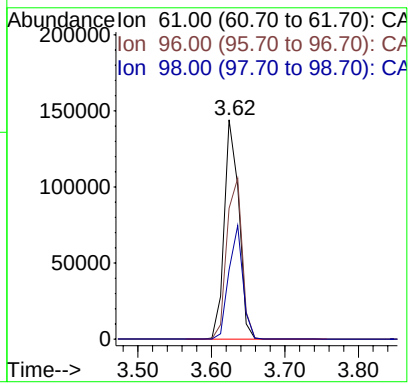


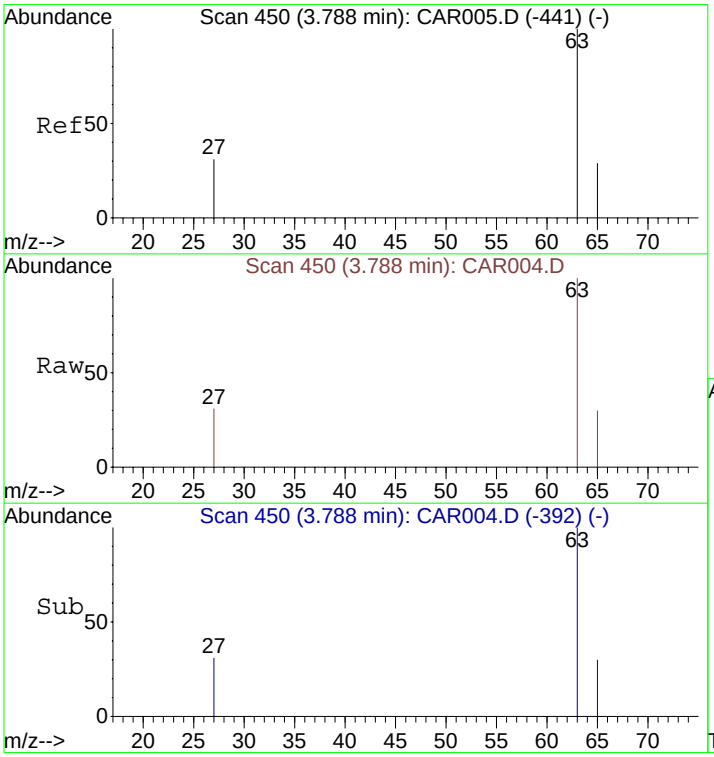


#5
trans-1,2-Dichloroethene
Concen: 987.41 ppbv
RT: 3.62 min Scan# 432
Delta R.T. -0.03 min
Lab File: CAR004.D
Acq: 15 Sep 2008 15:13

Tgt Ion: 61 Resp: 192721

Ion	Ratio	Lower	Upper
61	100		
96	77.2	55.0	82.4
98	49.9	35.6	53.4

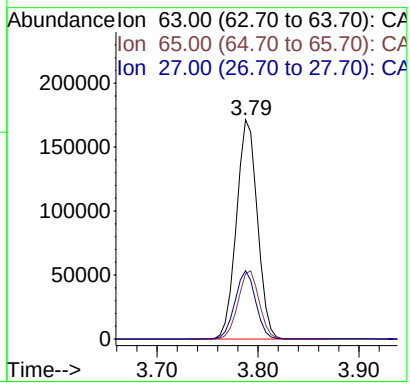


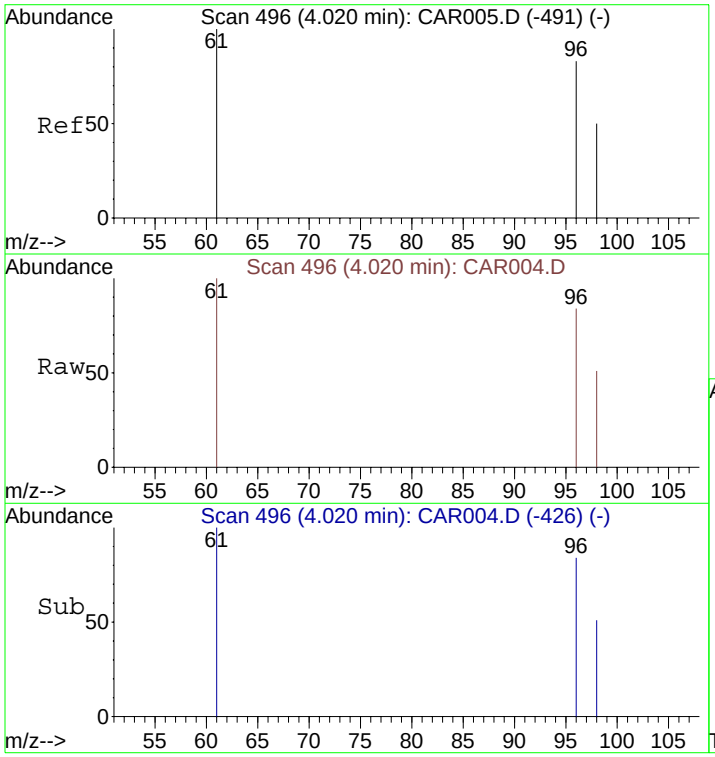


#6
1,1-Dichloroethane
Concen: 1063.50 ppbv
RT: 3.79 min Scan# 450
Delta R.T. -0.03 min
Lab File: CAR004.D
Acq: 15 Sep 2008 15:13

Tgt Ion: 63 Resp: 272664

Ion	Ratio	Lower	Upper
63	100		
65	31.2	23.5	35.3
27	31.7	26.7	40.1

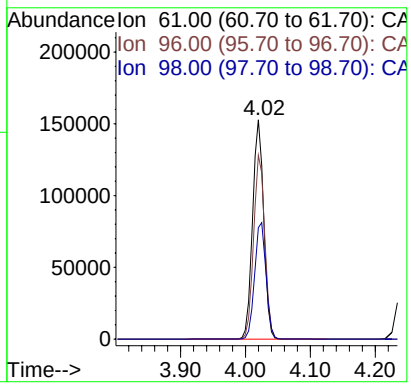


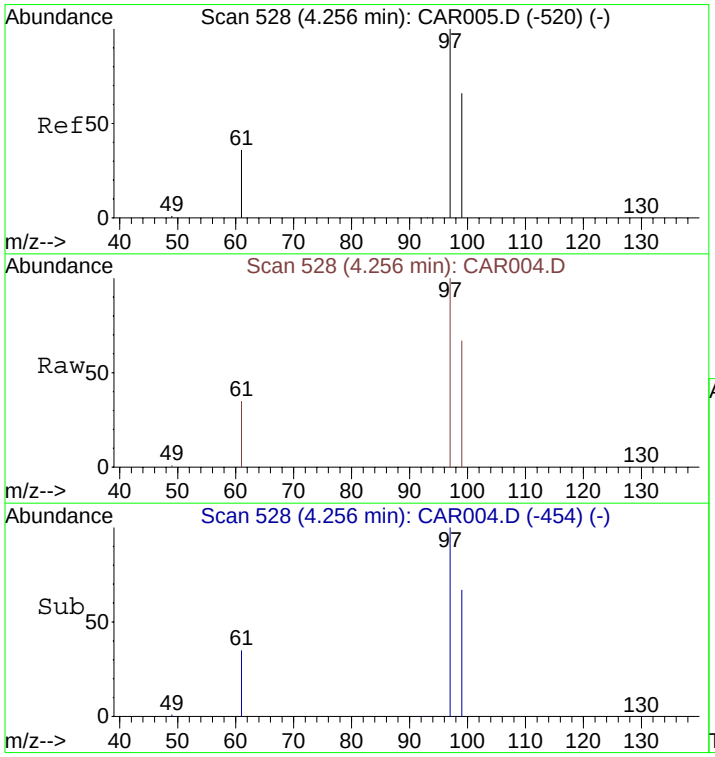


#7
cis-1,2-Dichloroethene
Concen: 976.33 ppbv
RT: 4.02 min Scan# 496
Delta R.T. -0.04 min
Lab File: CAR004.D
Acq: 15 Sep 2008 15:13

Tgt Ion: 61 Resp: 190538

Ion	Ratio	Lower	Upper
61	100		
96	83.6	56.0	84.0
98	54.0	36.2	54.4

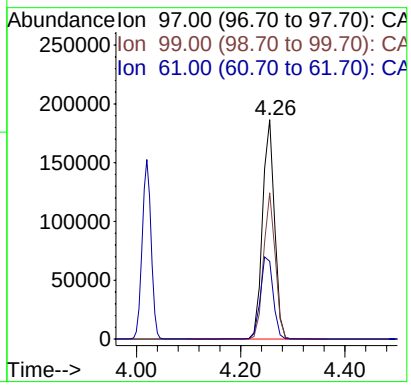


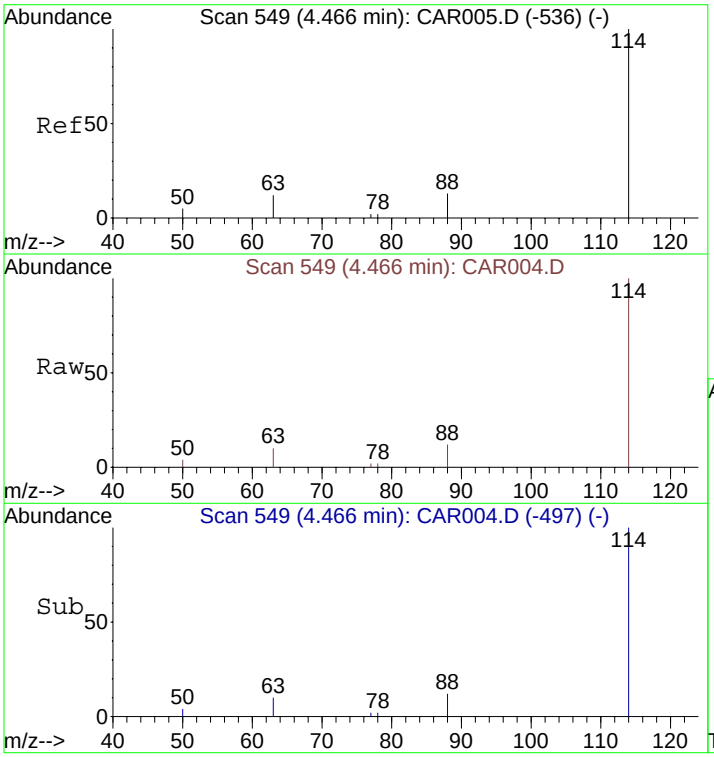


#8
1,1,1-Trichloroethane
Concen: 990.49 ppbv
RT: 4.26 min Scan# 528
Delta R.T. -0.05 min
Lab File: CAR004.D
Acq: 15 Sep 2008 15:13

Tgt Ion: 97 Resp: 287207

Ion	Ratio	Lower	Upper
97	100		
99	67.5	51.8	77.8
61	41.5	32.1	48.1

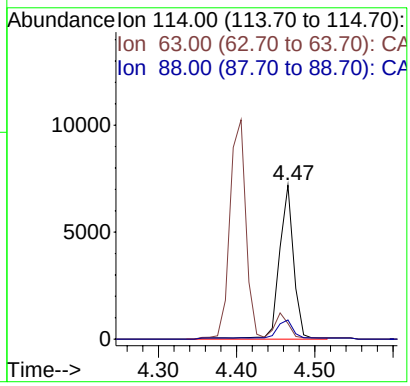


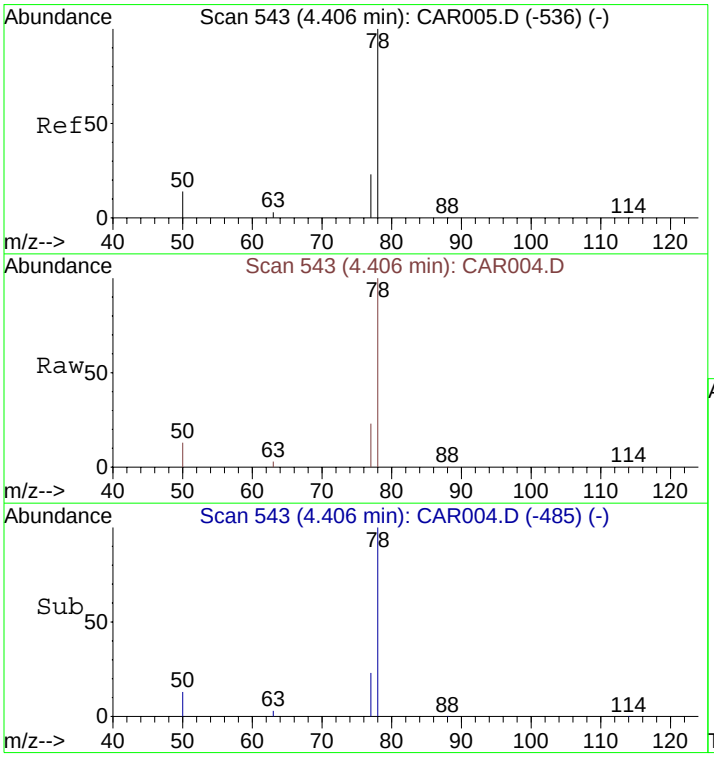


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. -0.06 min
Lab File: CAR004.D
Acq: 15 Sep 2008 15:13

Tgt Ion:114 Resp: 9210

Ion	Ratio	Lower	Upper
114	100		
63	15.3	15.8	23.8#
88	15.9	12.2	18.2

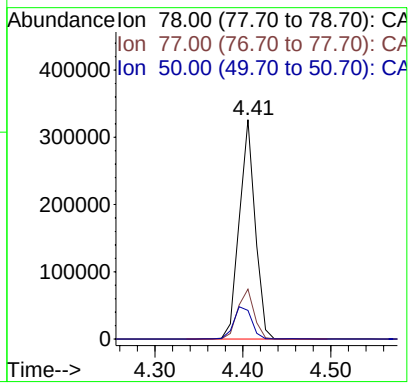


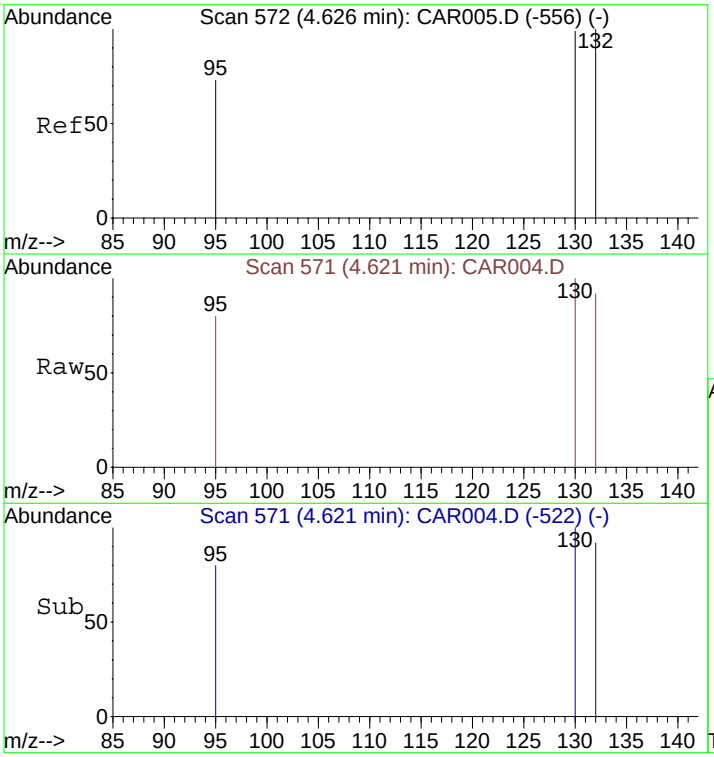


#10
Benzene
Concen: 729.58 ppbv
RT: 4.41 min Scan# 543
Delta R.T. -0.06 min
Lab File: CAR004.D
Acq: 15 Sep 2008 15:13

Tgt Ion: 78 Resp: 408652

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.6	28.0
50	16.7	16.2	24.4

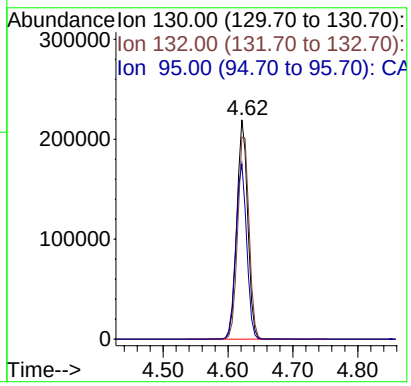


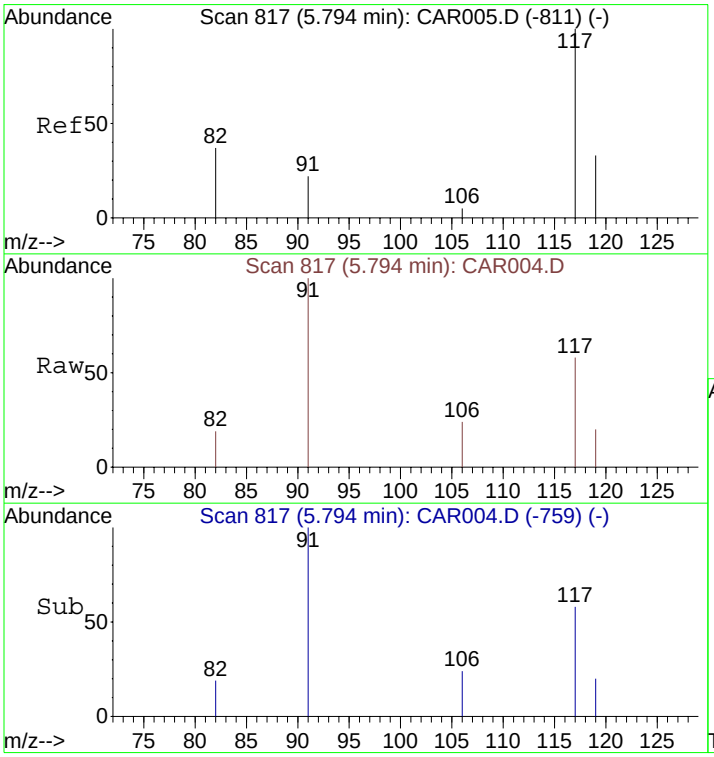


#11
Trichloroethene
Concen: 984.19 ppbv
RT: 4.62 min Scan# 571
Delta R.T. -0.08 min
Lab File: CAR004.D
Acq: 15 Sep 2008 15:13

Tgt Ion:130 Resp: 268419

Ion	Ratio	Lower	Upper
130	100		
132	98.7	73.8	110.6
95	81.1	72.5	108.7

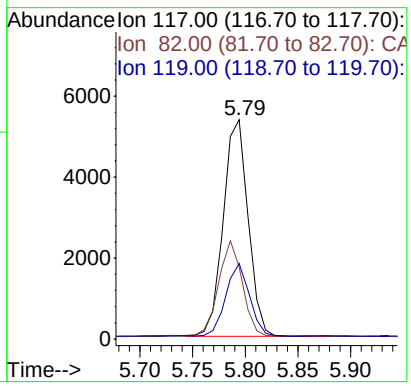


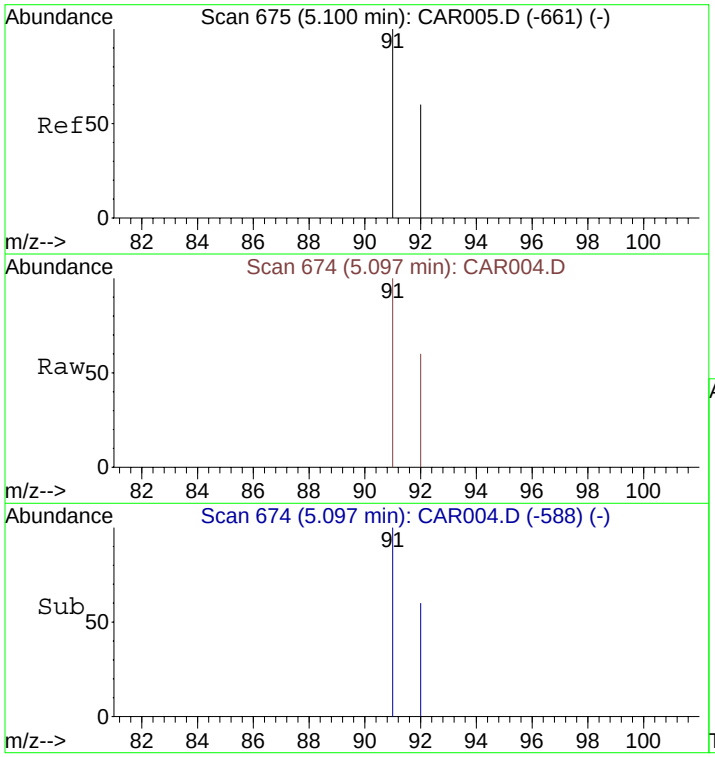


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.79 min Scan# 817
Delta R.T. -0.13 min
Lab File: CAR004.D
Acq: 15 Sep 2008 15:13

Tgt Ion:117 Resp: 8812

Ion	Ratio	Lower	Upper
117	100		
82	42.5	38.3	57.5
119	32.0	26.0	39.0

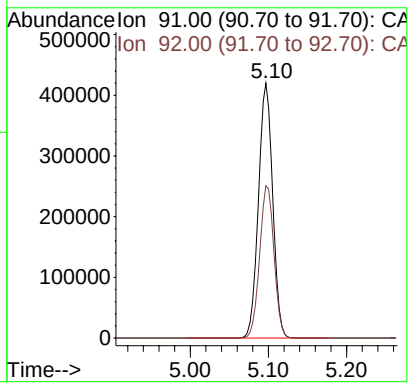


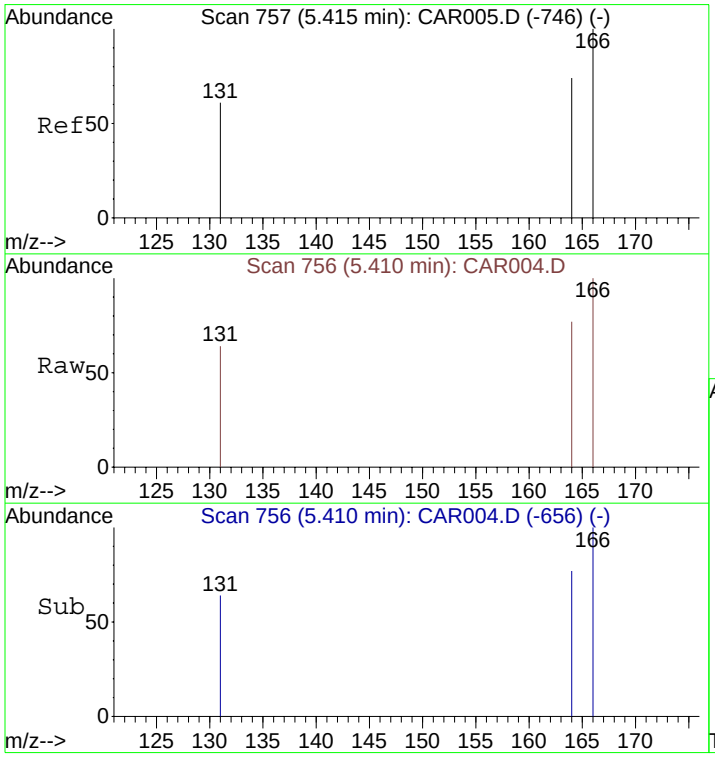


#13
Toluene
Concen: 1009.15 ppbv
RT: 5.10 min Scan# 674
Delta R.T. -0.11 min
Lab File: CAR004.D
Acq: 15 Sep 2008 15:13

Tgt Ion: 91 Resp: 540071

Ion	Ratio	Lower	Upper
91	100		
92	59.2	48.2	72.2

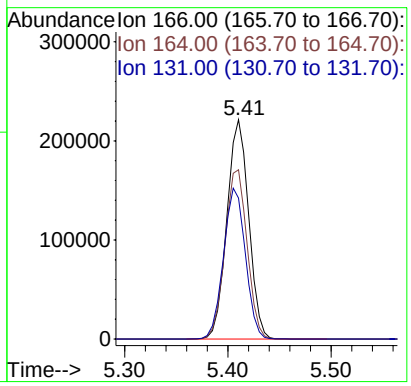


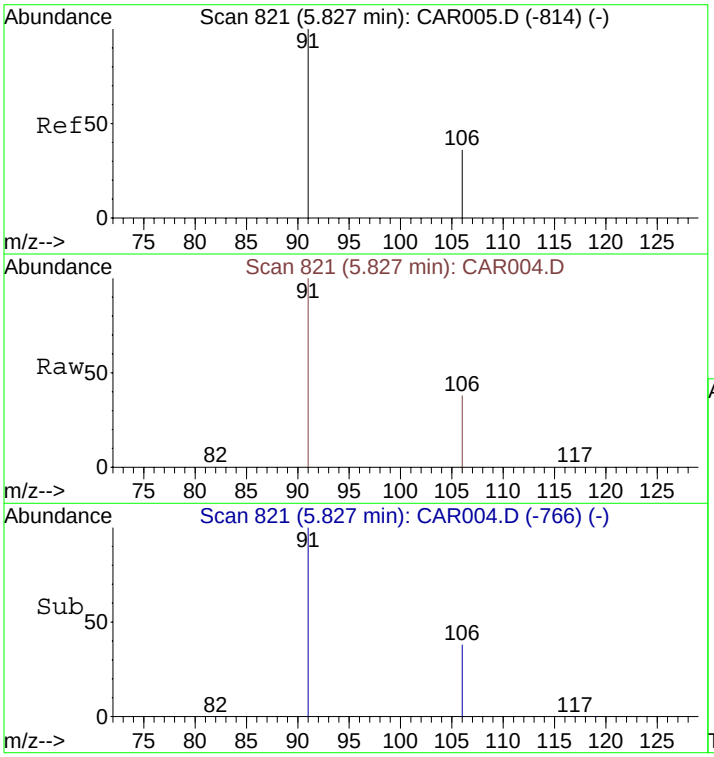


#14
Tetrachloroethene
Concen: 1005.57 ppbv
RT: 5.41 min Scan# 756
Delta R.T. -0.13 min
Lab File: CAR004.D
Acq: 15 Sep 2008 15:13

Tgt Ion:166 Resp: 323667

Ion	Ratio	Lower	Upper
166	100		
164	78.7	63.1	94.7
131	69.2	62.9	94.3

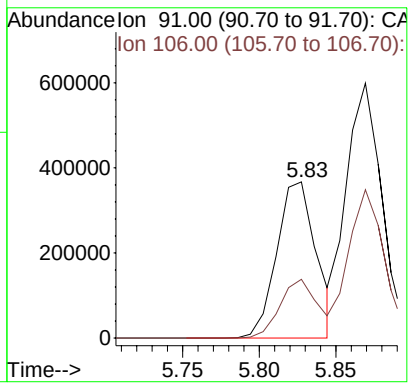


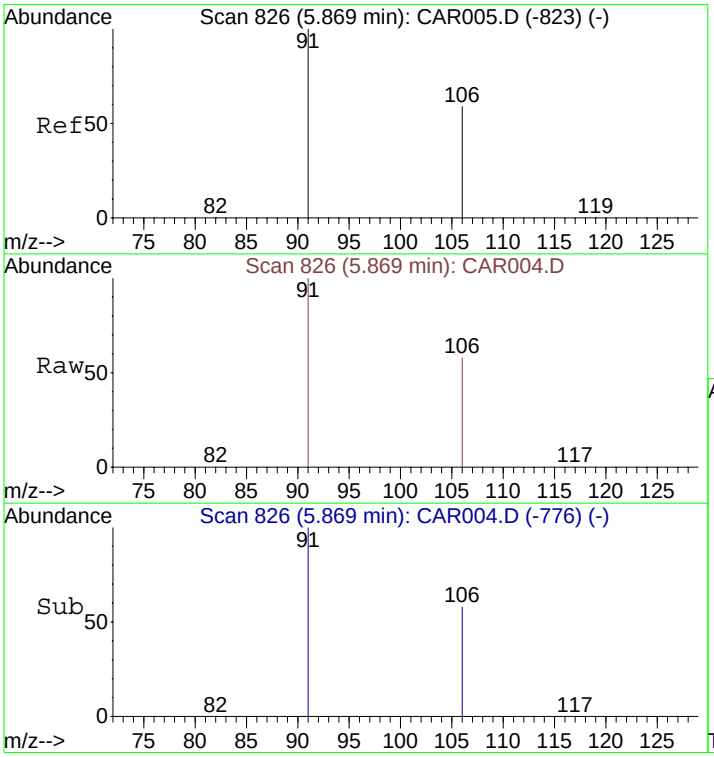


#15
Ethylbenzene
Concen: 1062.15 ppbv
RT: 5.83 min Scan# 821
Delta R.T. -0.13 min
Lab File: CAR004.D
Acq: 15 Sep 2008 15:13

Tgt Ion: 91 Resp: 658000

Ion	Ratio	Lower	Upper
91	100		
106	36.0	26.3	39.5

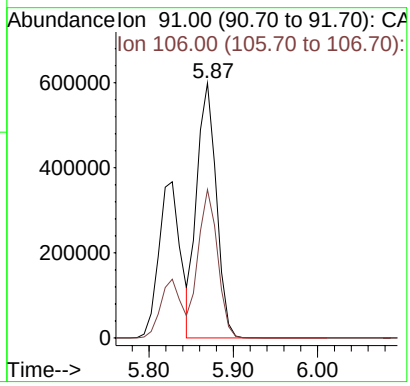


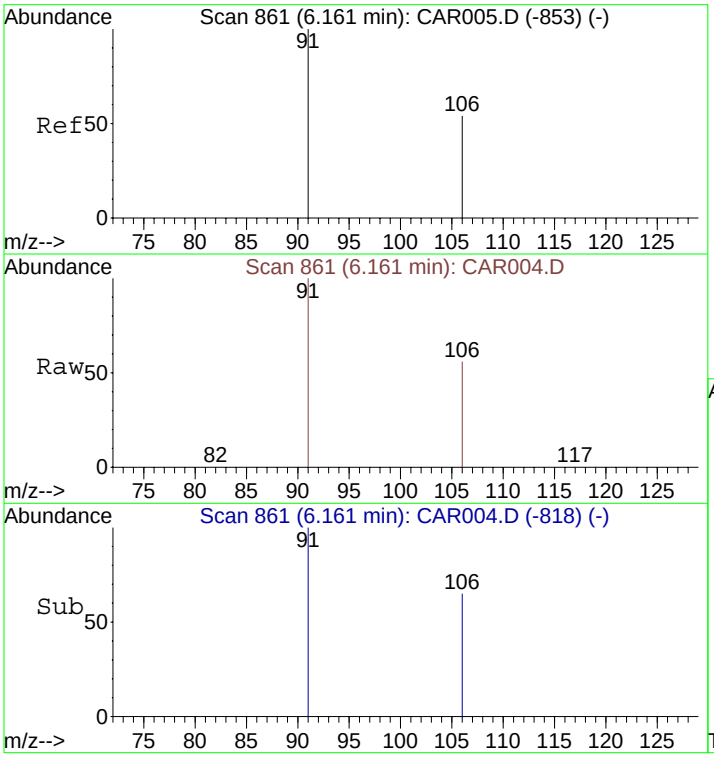


#16
m&p-Xylenes
Concen: 2199.05 ppbv
RT: 5.87 min Scan# 826
Delta R.T. -0.14 min
Lab File: CAR004.D
Acq: 15 Sep 2008 15:13

Tgt Ion: 91 Resp: 961216

Ion	Ratio	Lower	Upper
91	100		
106	58.1	41.8	62.8

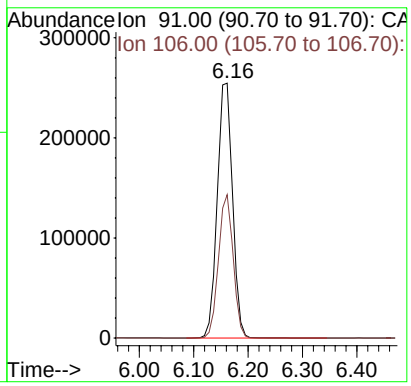




#17
o-Xylene
Concen: 989.87 ppbv
RT: 6.16 min Scan# 861
Delta R.T. -0.14 min
Lab File: CAR004.D
Acq: 15 Sep 2008 15:13

Tgt Ion: 91 Resp: 495039

Ion	Ratio	Lower	Upper
91	100		
106	54.2	38.9	58.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080915\CAR005.D Vial: 1
Acq On : 15 Sep 2008 15:32 Operator: dlm
Sample : STD20080915-3 Inst : Instrumen
Misc : 500 ppbv ICAL std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 13:38:53 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Mon Sep 15 13:24:07 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	2317	10.00 ppbv	-0.04
9) 1,4-Difluorobenzene	4.47	114	9723	10.00 ppbv	-0.06
12) Chlorobenzene-d5	5.79	117	12557m	10.00 ppbv	-0.13

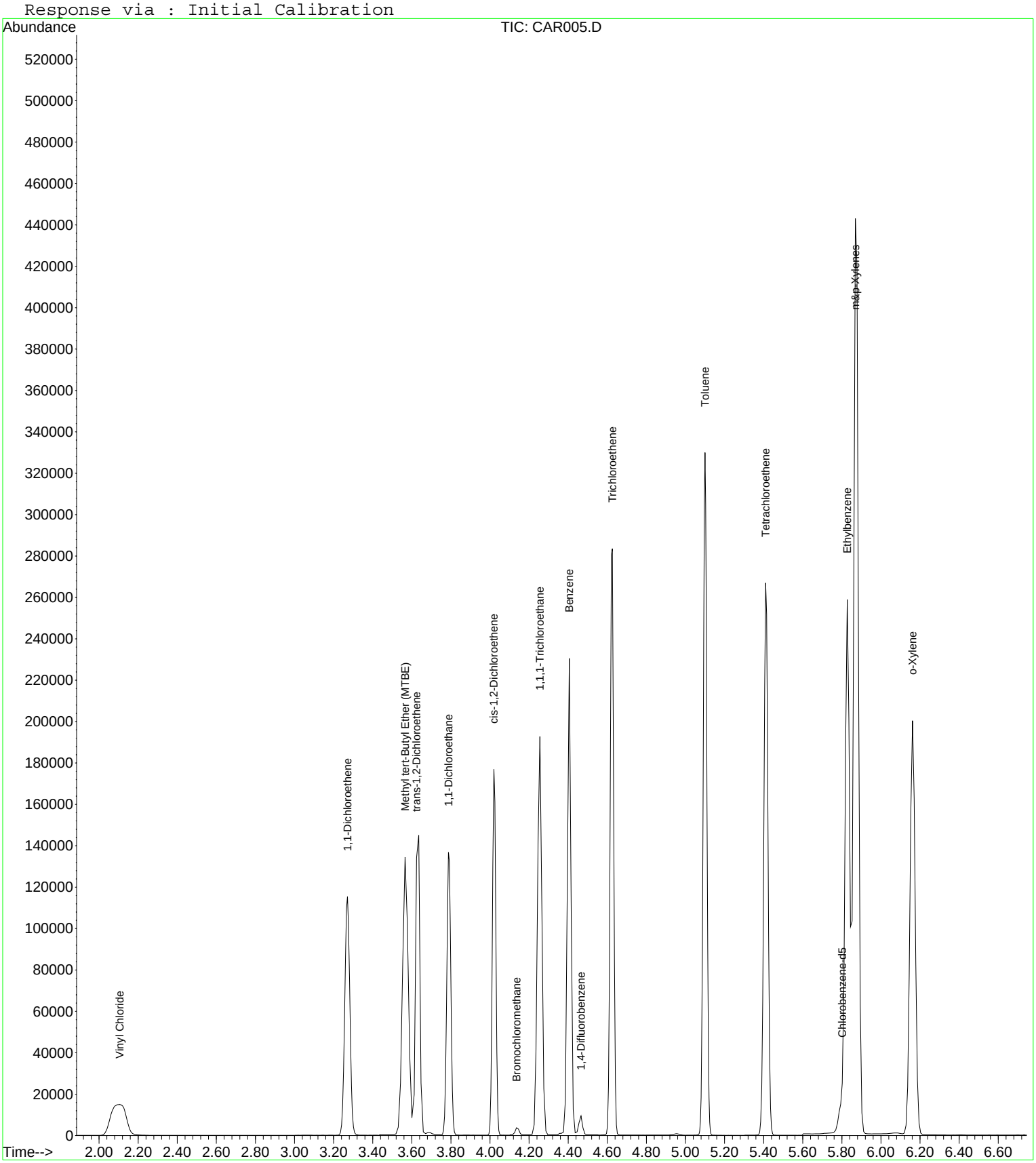
Target Compounds					Qvalue
2) Vinyl Chloride	2.11	62	62700m	473.36 ppbv	
3) 1,1-Dichloroethene	3.27	61	104056	502.48 ppbv	90
4) Methyl tert-Butyl Ether (M	3.57	73	163097	520.04 ppbv #	12
5) trans-1,2-Dichloroethene	3.62	61	96385	495.11 ppbv	90
6) 1,1-Dichloroethane	3.79	63	137102	536.14 ppbv	96
7) cis-1,2-Dichloroethene	4.02	61	90335m	464.08 ppbv	
8) 1,1,1-Trichloroethane	4.26	97	149239	516.01 ppbv	100
10) Benzene	4.41	78	201995	341.60 ppbv	96
11) Trichloroethene	4.63	130	137174	476.43 ppbv	92
13) Toluene	5.10	91	263133	345.04 ppbv	100
14) Tetrachloroethene	5.42	166	159520	347.79 ppbv	95
15) Ethylbenzene	5.83	91	309506	350.60 ppbv	95
16) m&p-Xylenes	5.87	91	482693	774.95 ppbv	93
17) o-Xylene	6.16	91	240464	337.43 ppbv	92

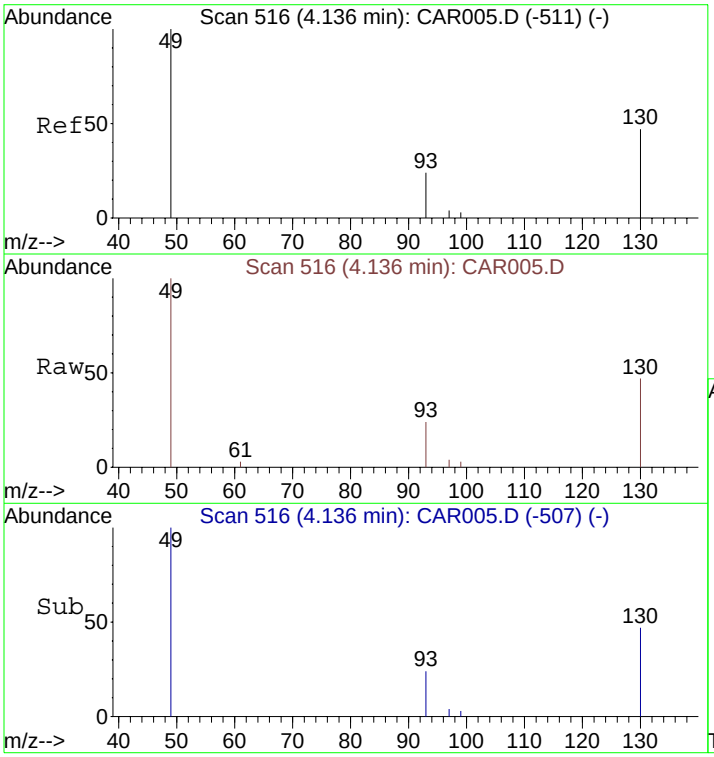
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080915\CAR005.D Vial: 1
Acq On : 15 Sep 2008 15:32 Operator: dlm
Sample : STD20080915-3 Inst : Instrumen
Misc : 500 ppbv ICAL std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 8:31 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Wed Nov 05 16:35:43 2008
Response via : Initial Calibration

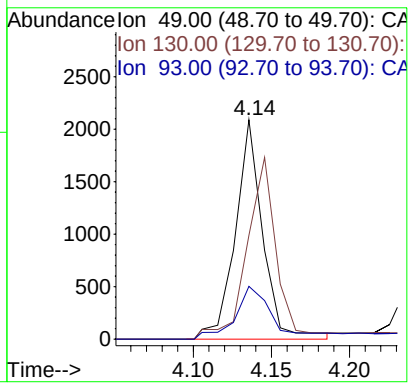


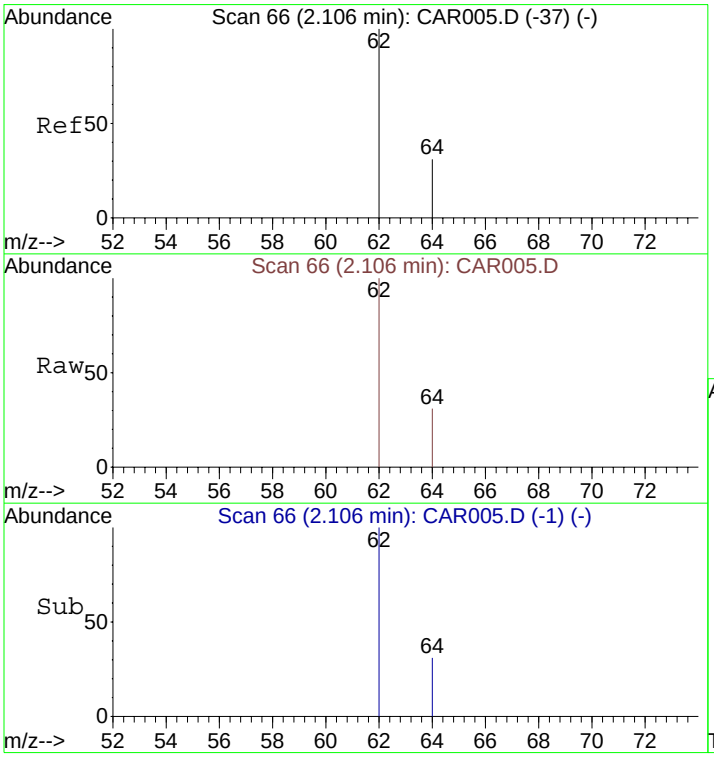


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. -0.04 min
Lab File: CAR005.D
Acq: 15 Sep 2008 15:32

Tgt Ion: 49 Resp: 2317

Ion	Ratio	Lower	Upper
49	100		
130	90.7	65.1	97.7
93	34.5	33.8	50.6

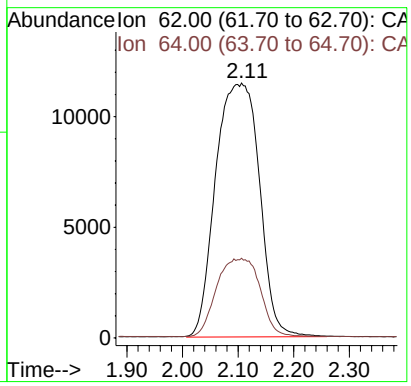


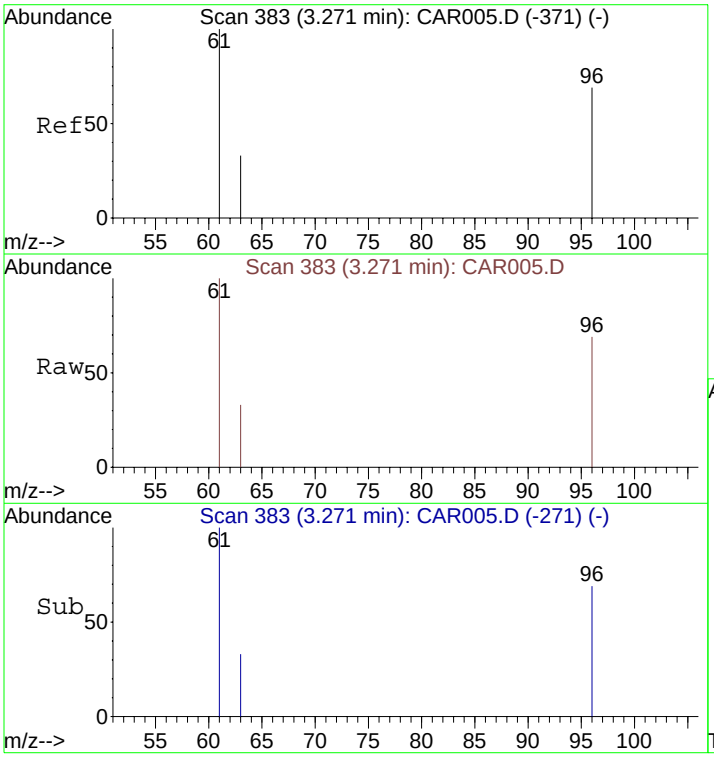


#2
Vinyl Chloride
Concen: 473.36 ppbv m
RT: 2.11 min Scan# 66
Delta R.T. -0.18 min
Lab File: CAR005.D
Acq: 15 Sep 2008 15:32

Tgt Ion: 62 Resp: 62700

Ion	Ratio	Lower	Upper
62	100		
64	30.5	9.4	14.2#

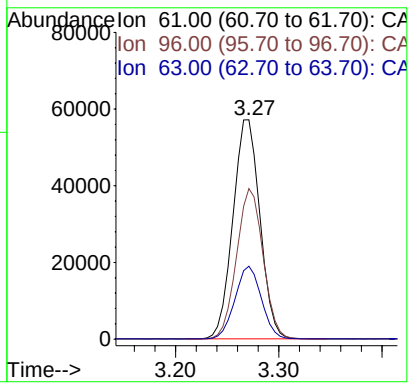


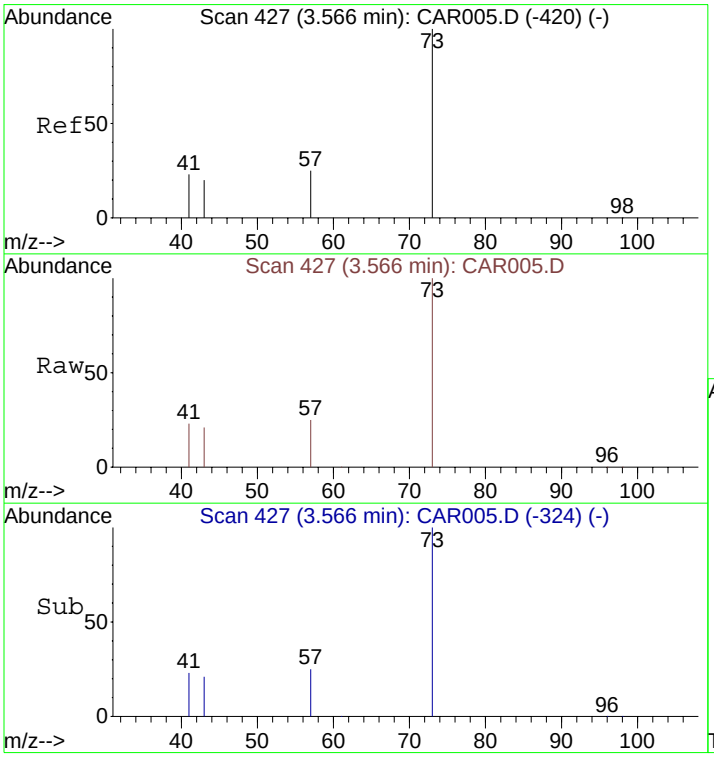


#3
1,1-Dichloroethene
Concen: 502.48 ppbv
RT: 3.27 min Scan# 383
Delta R.T. -0.03 min
Lab File: CAR005.D
Acq: 15 Sep 2008 15:32

Tgt Ion: 61 Resp: 104056

Ion	Ratio	Lower	Upper
61	100		
96	67.2	45.7	68.5
63	32.4	25.0	37.4

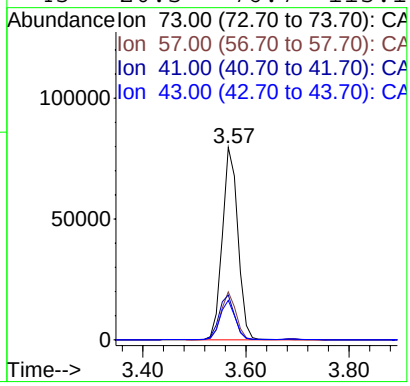


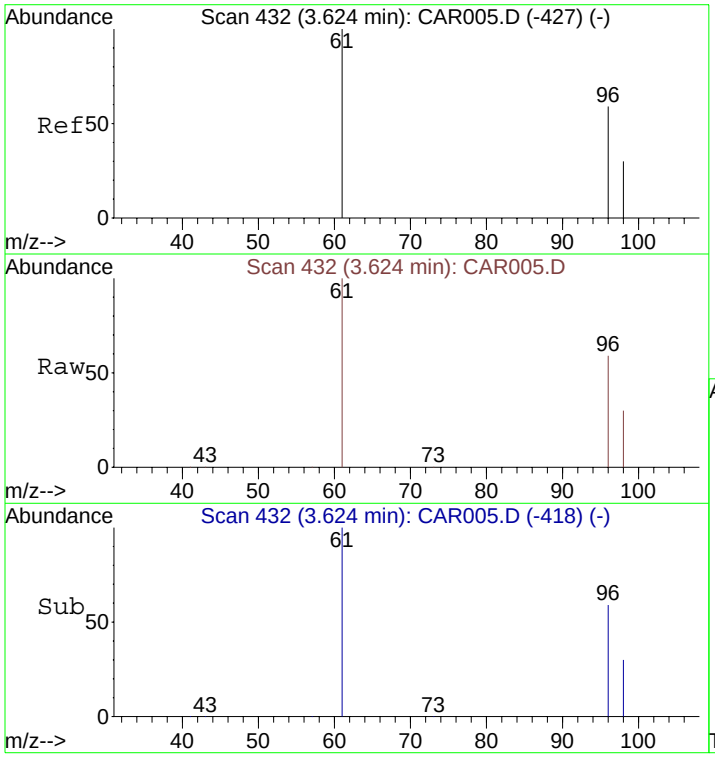


#4
Methyl tert-Butyl Ether (MTBE)
Concen: 520.04 ppbv
RT: 3.57 min Scan# 427
Delta R.T. 0.08 min
Lab File: CAR005.D
Acq: 15 Sep 2008 15:32

Tgt Ion: 73 Resp: 163097

Ion	Ratio	Lower	Upper
73	100		
57	24.4	32.6	49.0#
41	23.7	139.4	209.2#
43	20.5	76.7	115.1#

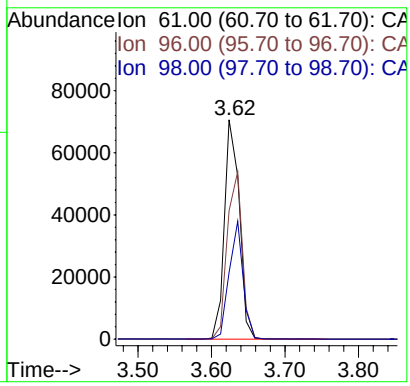


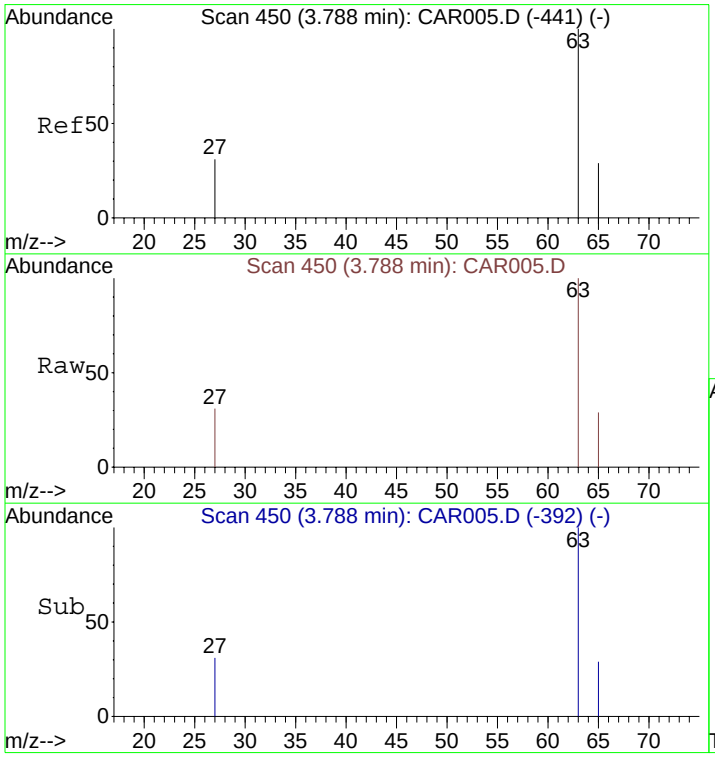


#5
trans-1,2-Dichloroethene
Concen: 495.11 ppbv
RT: 3.62 min Scan# 432
Delta R.T. -0.03 min
Lab File: CAR005.D
Acq: 15 Sep 2008 15:32

Tgt Ion: 61 Resp: 96385

Ion	Ratio	Lower	Upper
61	100		
96	77.4	55.0	82.4
98	49.8	35.6	53.4

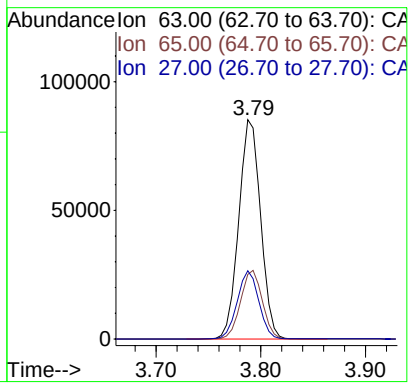


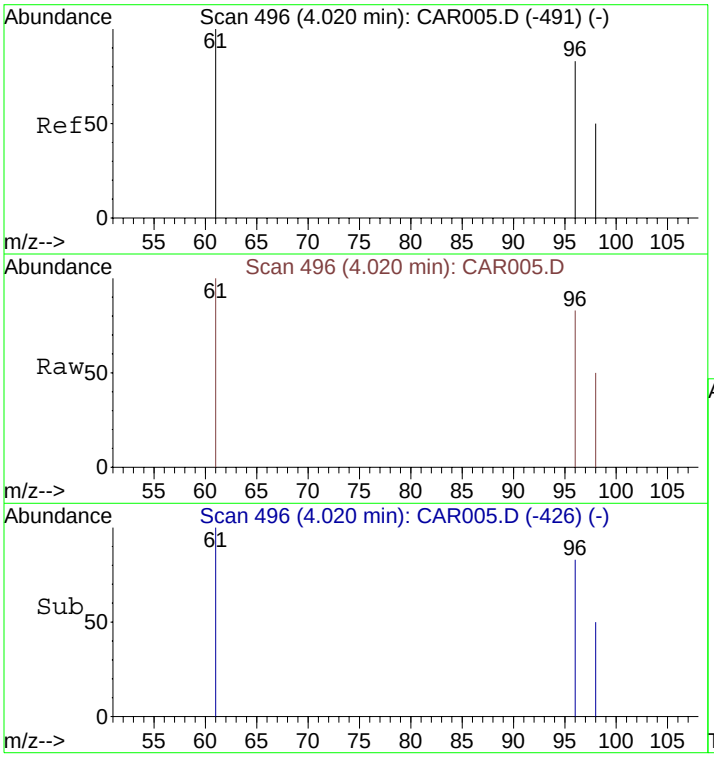


#6
1,1-Dichloroethane
Concen: 536.14 ppbv
RT: 3.79 min Scan# 450
Delta R.T. -0.03 min
Lab File: CAR005.D
Acq: 15 Sep 2008 15:32

Tgt Ion: 63 Resp: 137102

Ion	Ratio	Lower	Upper
63	100		
65	31.8	23.5	35.3
27	31.4	26.7	40.1

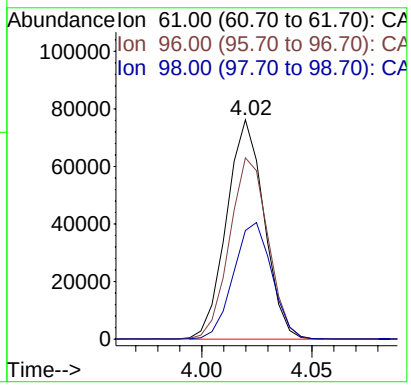


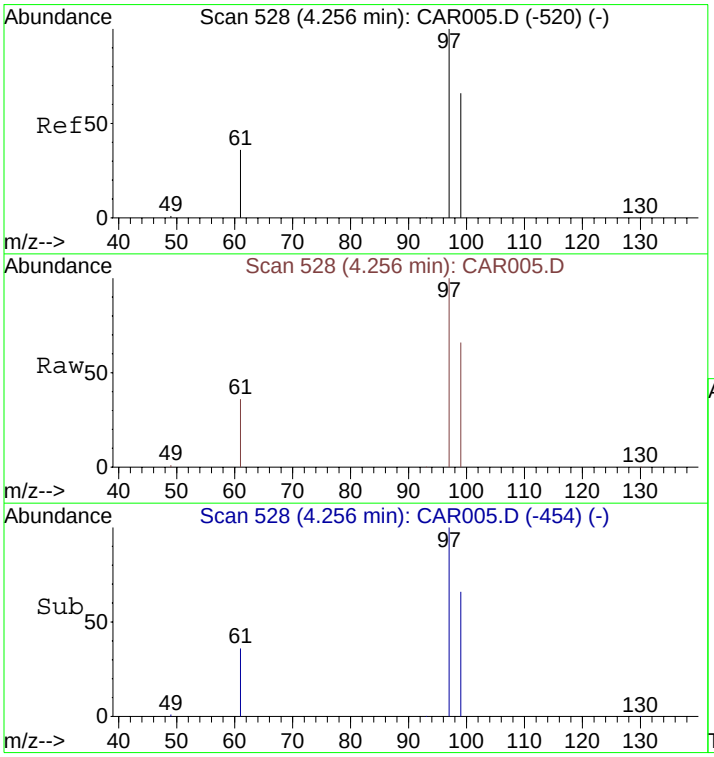


#7
cis-1,2-Dichloroethene
Concen: 464.08 ppbv m
RT: 4.02 min Scan# 496
Delta R.T. -0.04 min
Lab File: CAR005.D
Acq: 15 Sep 2008 15:32

Tgt Ion: 61 Resp: 90335

Ion	Ratio	Lower	Upper
61	100		
96	84.7	56.0	84.0#
98	54.7	36.2	54.4#

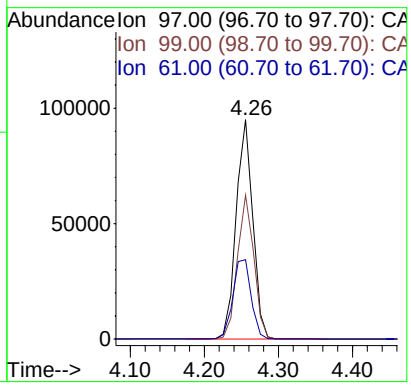


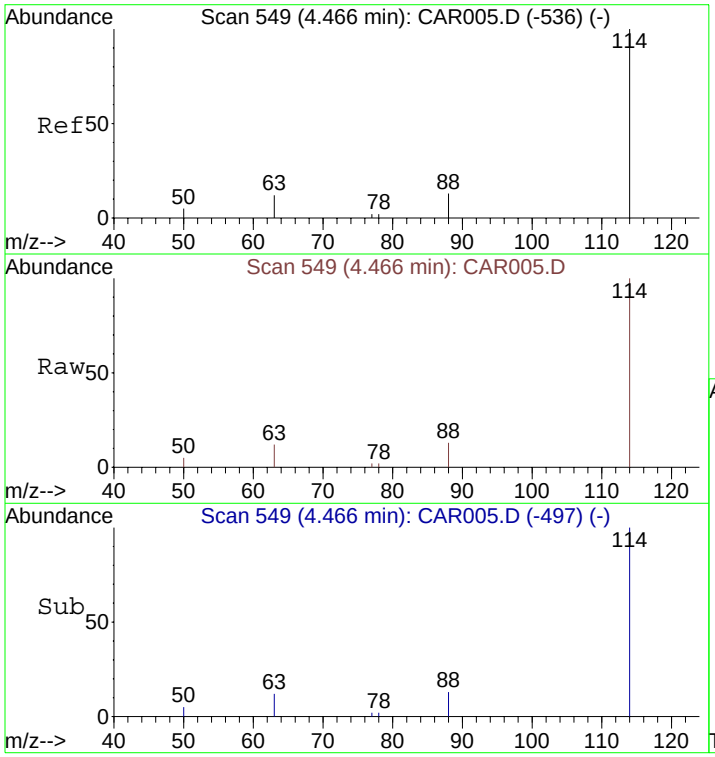


#8
1,1,1-Trichloroethane
Concen: 516.01 ppbv
RT: 4.26 min Scan# 528
Delta R.T. -0.05 min
Lab File: CAR005.D
Acq: 15 Sep 2008 15:32

Tgt Ion: 97 Resp: 149239

Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.8	77.8
61	39.9	32.1	48.1

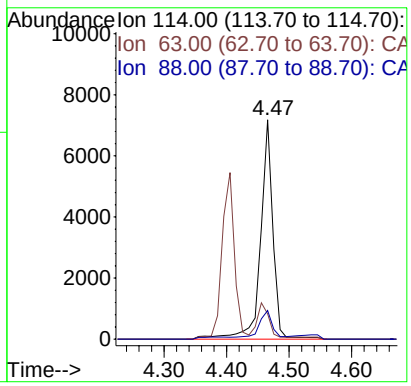


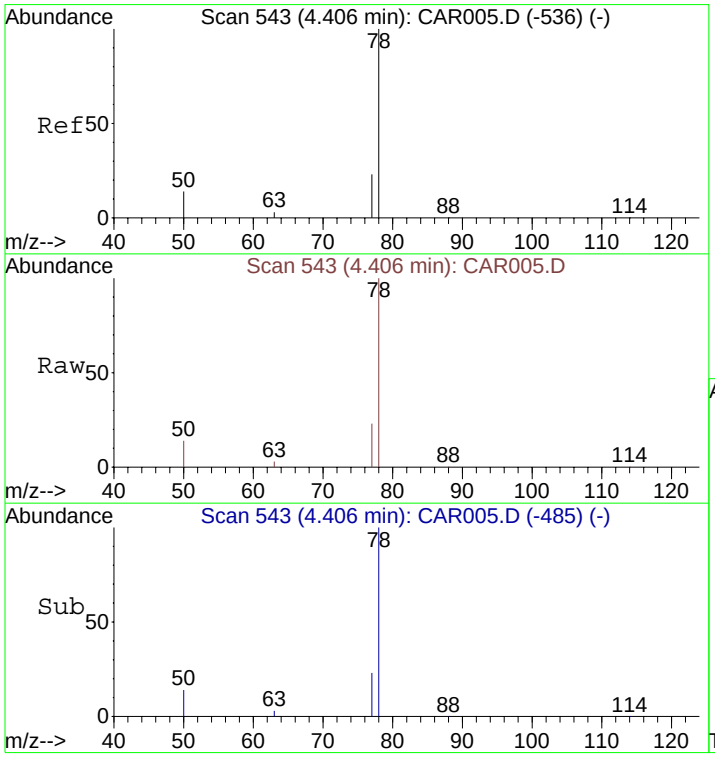


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. -0.06 min
Lab File: CAR005.D
Acq: 15 Sep 2008 15:32

Tgt Ion:114 Resp: 9723

Ion	Ratio	Lower	Upper
114	100		
63	15.0	15.8	23.8#
88	15.5	12.2	18.2

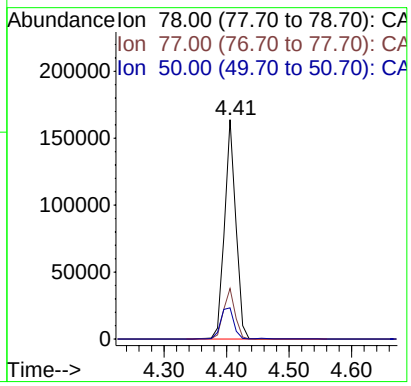


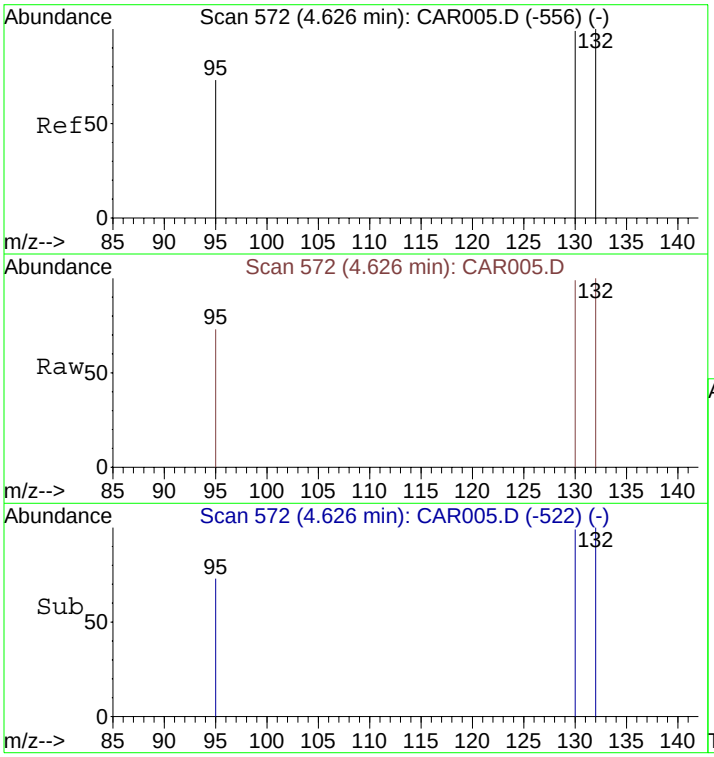


#10
Benzene
Concen: 341.60 ppbv
RT: 4.41 min Scan# 543
Delta R.T. -0.06 min
Lab File: CAR005.D
Acq: 15 Sep 2008 15:32

Tgt Ion: 78 Resp: 201995

Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.6	28.0
50	17.0	16.2	24.4

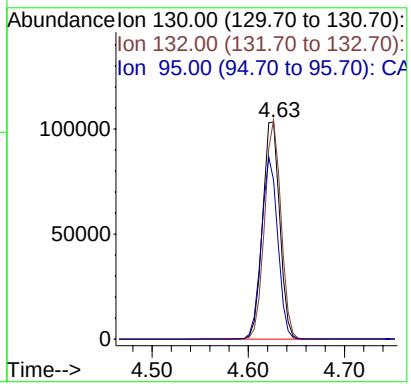


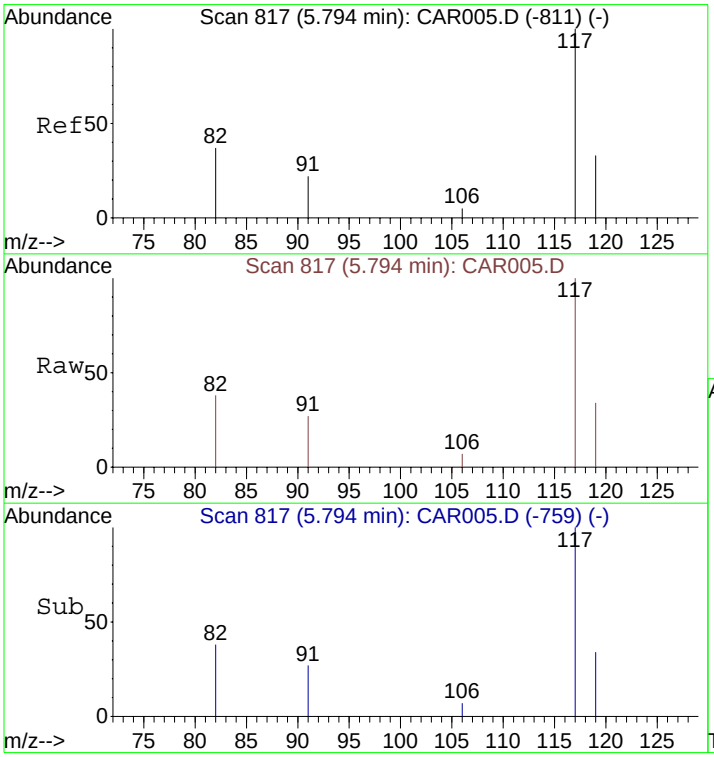


#11
Trichloroethene
Concen: 476.43 ppbv
RT: 4.63 min Scan# 572
Delta R.T. -0.07 min
Lab File: CAR005.D
Acq: 15 Sep 2008 15:32

Tgt Ion:130 Resp: 137174

Ion	Ratio	Lower	Upper
130	100		
132	96.8	73.8	110.6
95	80.2	72.5	108.7

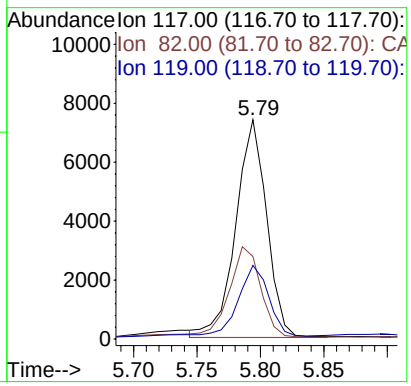


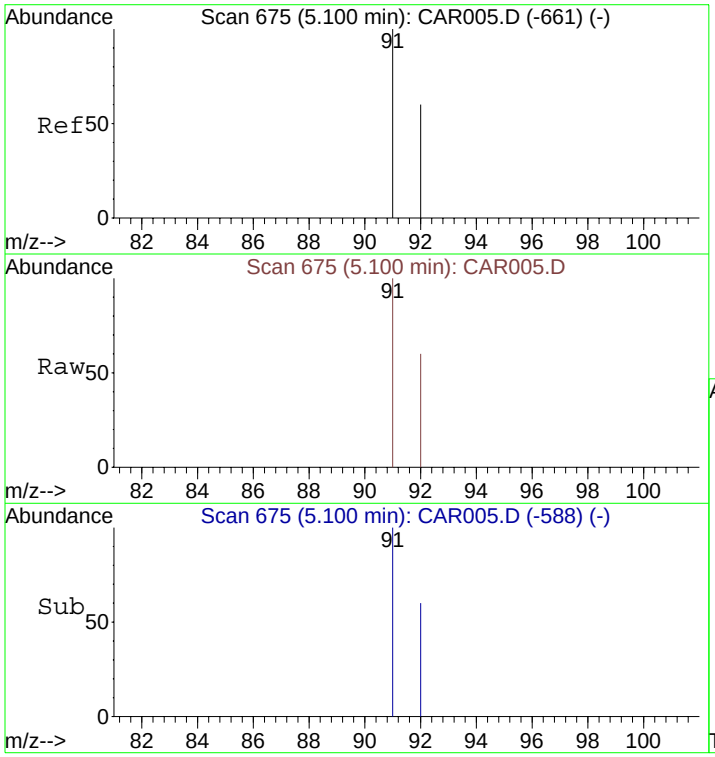


#12
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 5.79 min Scan# 817
Delta R.T. -0.13 min
Lab File: CAR005.D
Acq: 15 Sep 2008 15:32

Tgt Ion:117 Resp: 12557

Ion	Ratio	Lower	Upper
117	100		
82	46.2	38.3	57.5
119	34.1	26.0	39.0

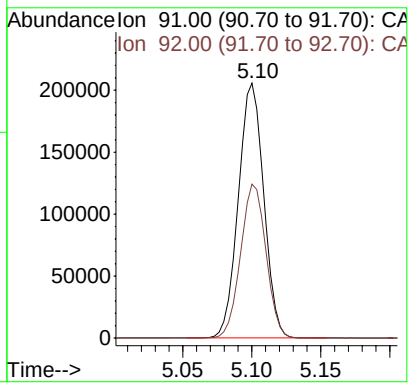


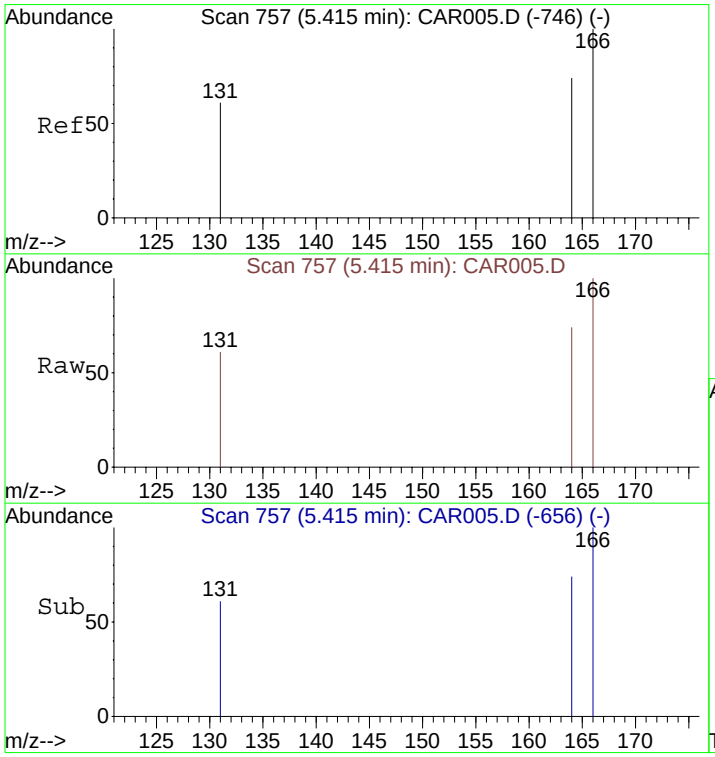


#13
Toluene
Concen: 345.04 ppbv
RT: 5.10 min Scan# 675
Delta R.T. -0.11 min
Lab File: CAR005.D
Acq: 15 Sep 2008 15:32

Tgt Ion: 91 Resp: 263133

Ion	Ratio	Lower	Upper
91	100		
92	60.3	48.2	72.2

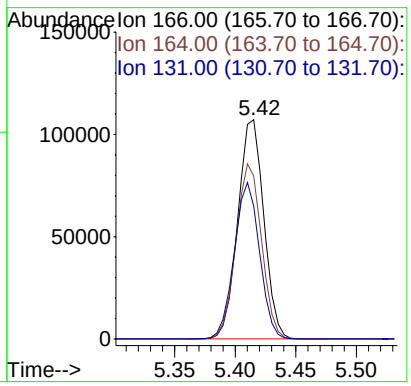


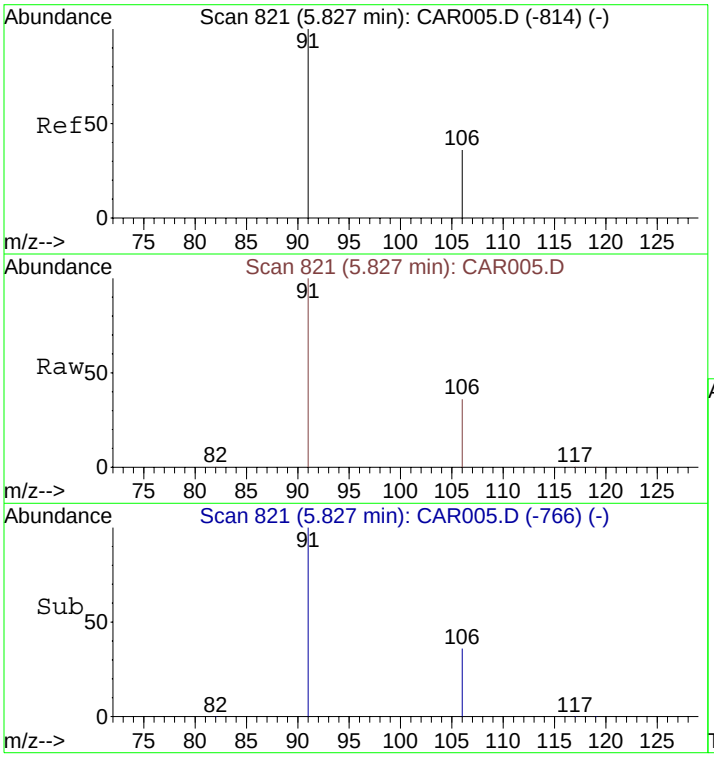


#14
Tetrachloroethene
Concen: 347.79 ppbv
RT: 5.42 min Scan# 757
Delta R.T. -0.12 min
Lab File: CAR005.D
Acq: 15 Sep 2008 15:32

Tgt Ion:166 Resp: 159520

Ion	Ratio	Lower	Upper
166	100		
164	78.8	63.1	94.7
131	69.4	62.9	94.3

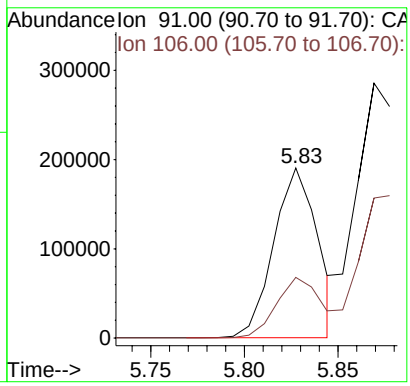


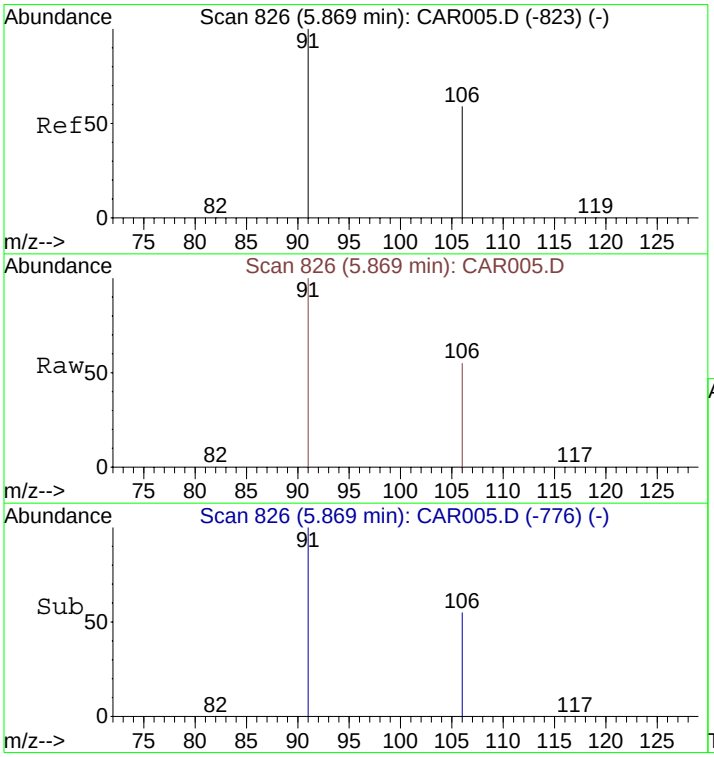


#15
Ethylbenzene
Concen: 350.60 ppbv
RT: 5.83 min Scan# 821
Delta R.T. -0.13 min
Lab File: CAR005.D
Acq: 15 Sep 2008 15:32

Tgt Ion: 91 Resp: 309506

Ion	Ratio	Lower	Upper
91	100		
106	35.5	26.3	39.5

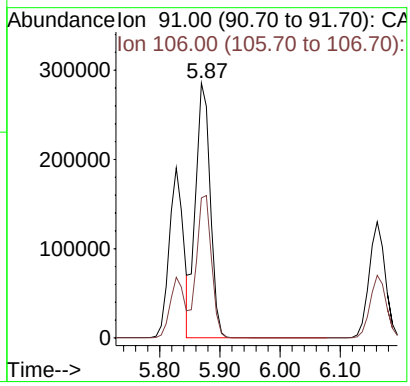


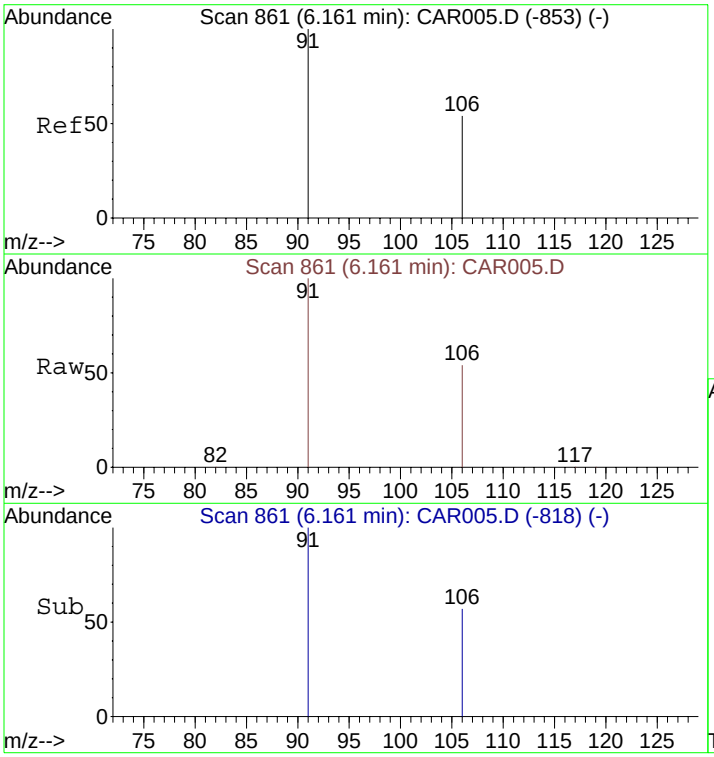


#16
m&p-Xylenes
Concen: 774.95 ppbv
RT: 5.87 min Scan# 826
Delta R.T. -0.14 min
Lab File: CAR005.D
Acq: 15 Sep 2008 15:32

Tgt Ion: 91 Resp: 482693

Ion	Ratio	Lower	Upper
91	100		
106	57.5	41.8	62.8

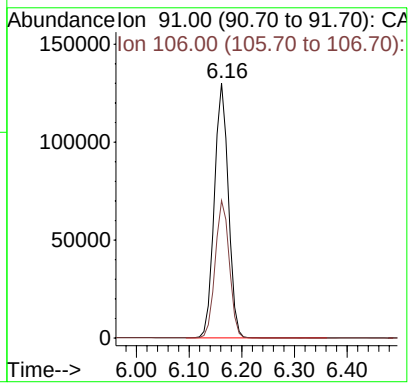




#17
o-Xylene
Concen: 337.43 ppbv
RT: 6.16 min Scan# 861
Delta R.T. -0.14 min
Lab File: CAR005.D
Acq: 15 Sep 2008 15:32

Tgt Ion: 91 Resp: 240464

Ion	Ratio	Lower	Upper
91	100		
106	54.3	38.9	58.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080915\CAR006.D Vial: 1
Acq On : 15 Sep 2008 15:44 Operator: dlm
Sample : STD20080915-4 Inst : Instrumen
Misc : 50 ppbv ICAL std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 13:39:07 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Mon Sep 15 13:24:07 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.14	49	2158	10.00	ppbv	-0.04
9) 1,4-Difluorobenzene	4.47	114	7916	10.00	ppbv	-0.06
12) Chlorobenzene-d5	5.81	117	7737	10.00	ppbv	-0.12

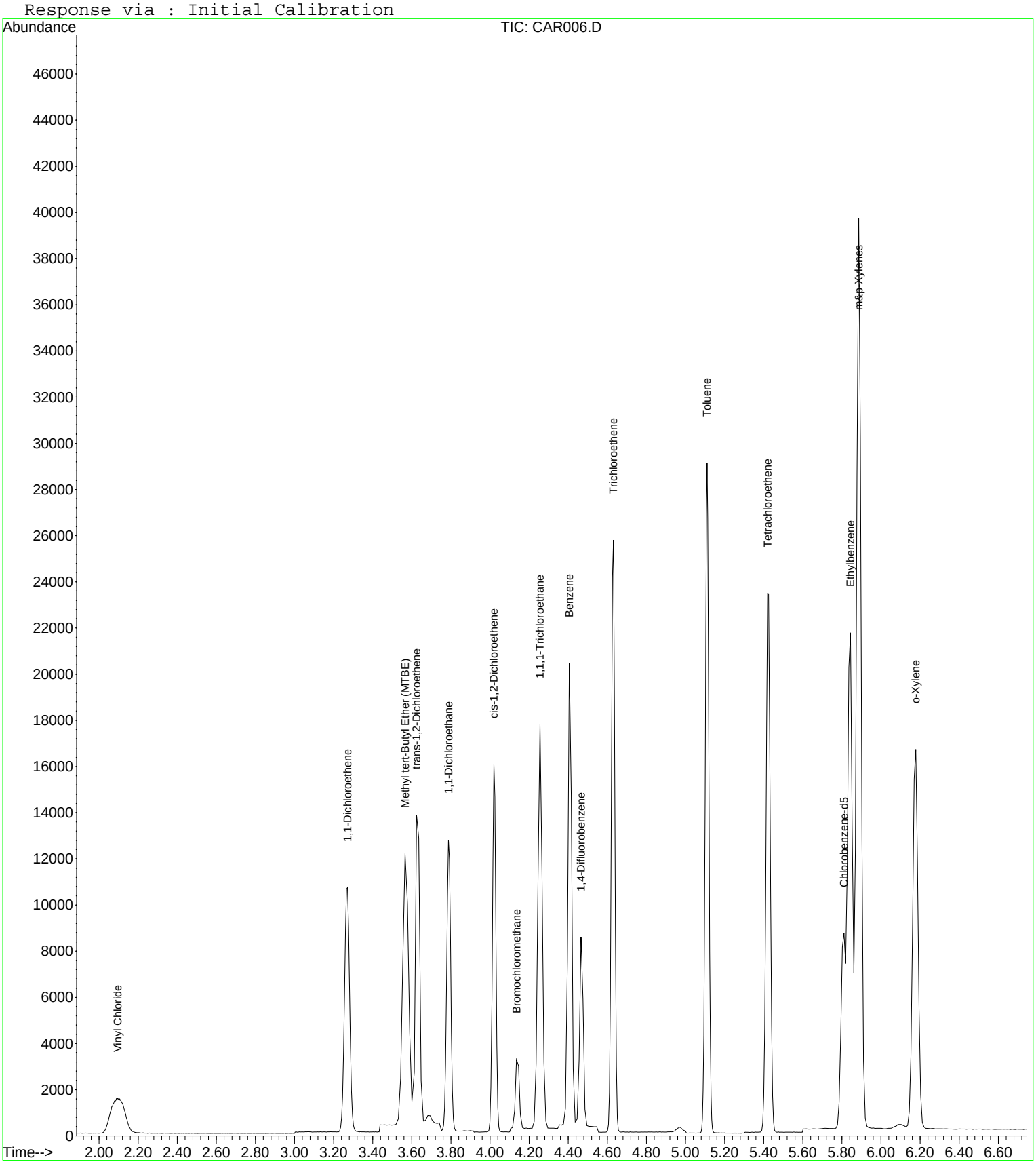
Target Compounds						Qvalue
2) Vinyl Chloride	2.10	62	5897m	47.80	ppbv	
3) 1,1-Dichloroethene	3.27	61	9685	50.21	ppbv	91
4) Methyl tert-Butyl Ether (M	3.57	73	15617	53.46	ppbv #	16
5) trans-1,2-Dichloroethene	3.62	61	9371	51.68	ppbv	93
6) 1,1-Dichloroethane	3.79	63	13186	55.36	ppbv	96
7) cis-1,2-Dichloroethene	4.02	61	8441m	46.56	ppbv	
8) 1,1,1-Trichloroethane	4.26	97	13947	51.78	ppbv	99
10) Benzene	4.41	78	19624	40.76	ppbv	95
11) Trichloroethene	4.63	130	11379	48.54	ppbv	92
13) Toluene	5.11	91	23284	49.55	ppbv	99
14) Tetrachloroethene	5.43	166	14172	50.15	ppbv	95
15) Ethylbenzene	5.84	91	27475	50.51	ppbv	95
16) m&p-Xylenes	5.89	91	39866	103.88	ppbv	92
17) o-Xylene	6.18	91	20471	46.62	ppbv	92

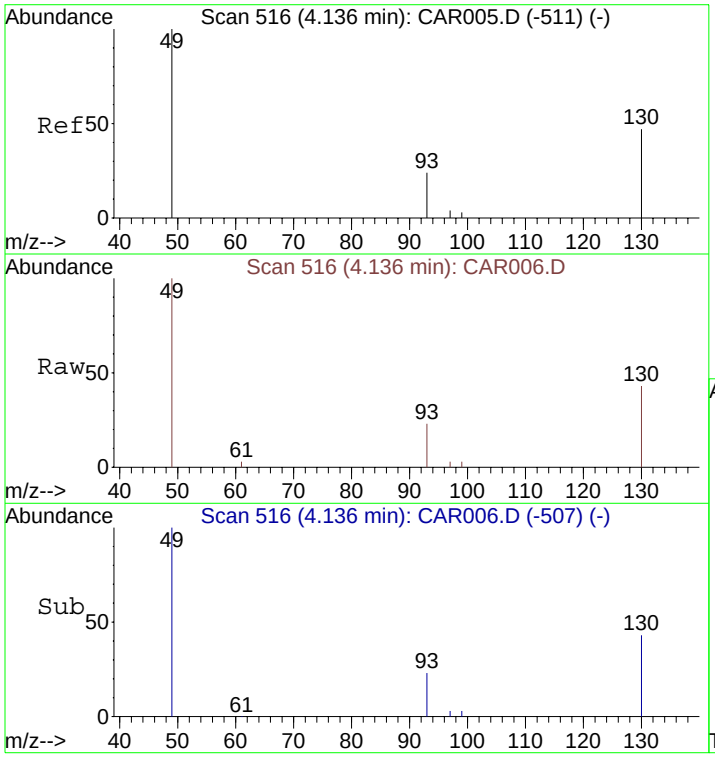
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080915\CAR006.D Vial: 1
Acq On : 15 Sep 2008 15:44 Operator: dlm
Sample : STD20080915-4 Inst : Instrumen
Misc : 50 ppbv ICAL std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 8:32 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Wed Nov 05 16:35:43 2008
Response via : Initial Calibration

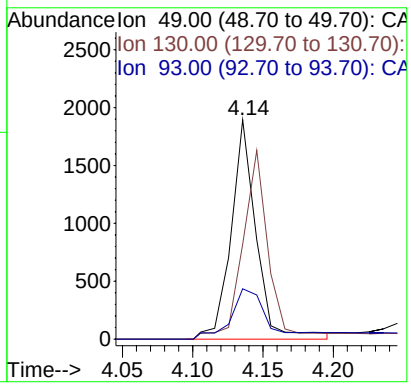


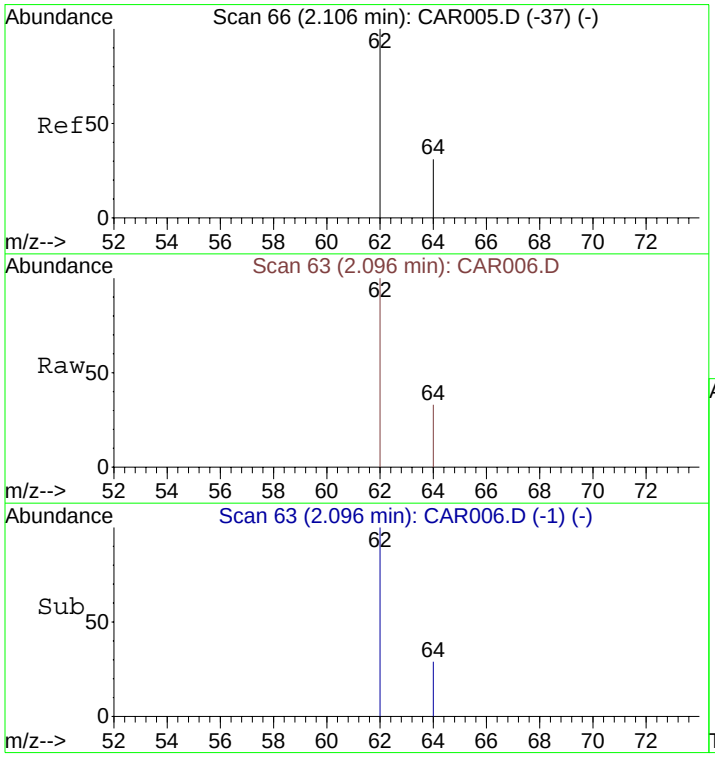


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. -0.04 min
Lab File: CAR006.D
Acq: 15 Sep 2008 15:44

Tgt Ion: 49 Resp: 2158

Ion	Ratio	Lower	Upper
49	100		
130	93.2	65.1	97.7
93	31.0	33.8	50.6#

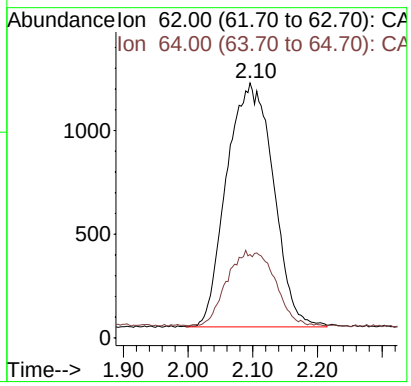


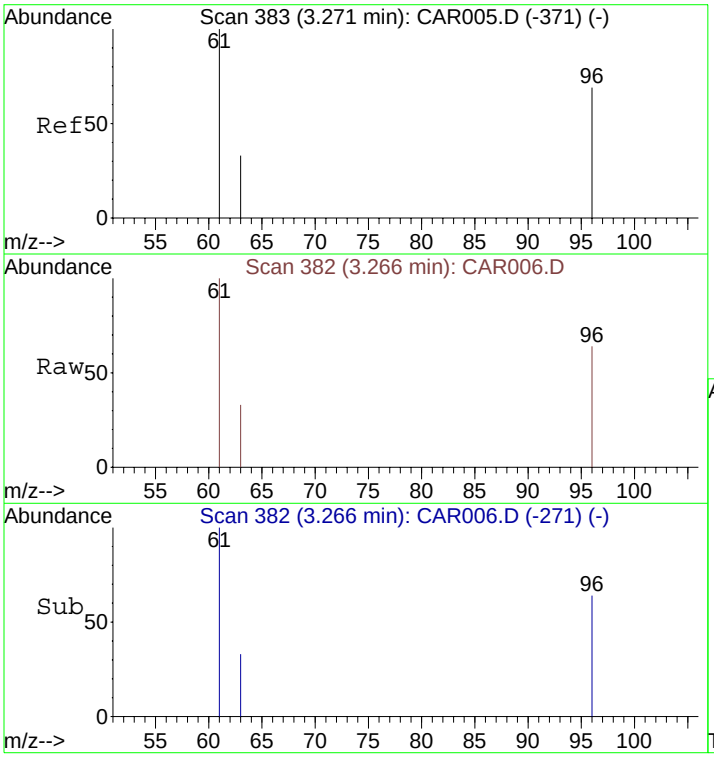


#2
Vinyl Chloride
Concen: 47.80 ppbv m
RT: 2.10 min Scan# 63
Delta R.T. -0.19 min
Lab File: CAR006.D
Acq: 15 Sep 2008 15:44

Tgt Ion: 62 Resp: 5897

Ion	Ratio	Lower	Upper
62	100		
64	30.8	9.4	14.2#

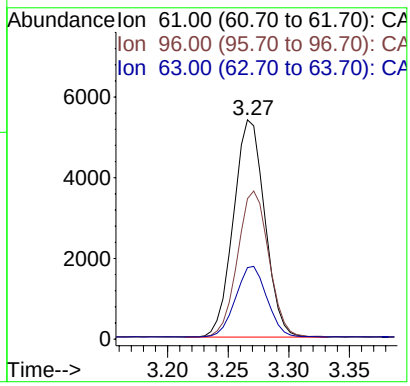


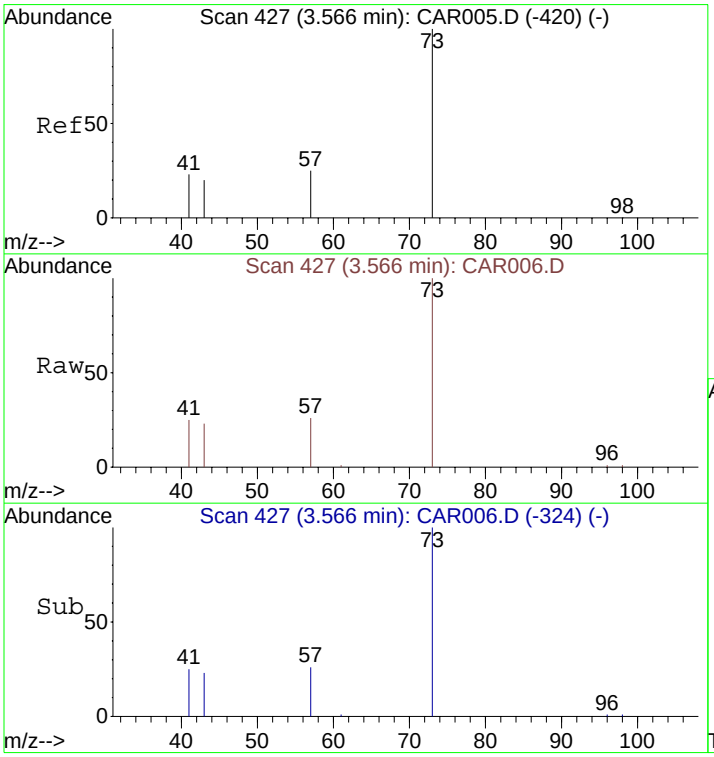


#3
1,1-Dichloroethene
Concen: 50.21 ppbv
RT: 3.27 min Scan# 382
Delta R.T. -0.04 min
Lab File: CAR006.D
Acq: 15 Sep 2008 15:44

Tgt Ion: 61 Resp: 9685

Ion	Ratio	Lower	Upper
61	100		
96	66.9	45.7	68.5
63	32.4	25.0	37.4

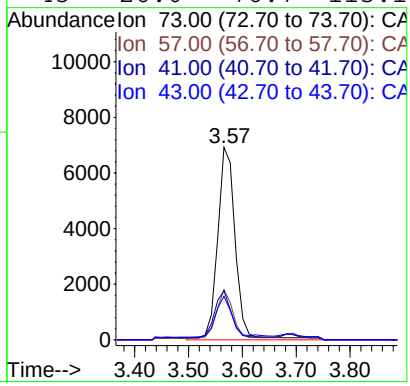


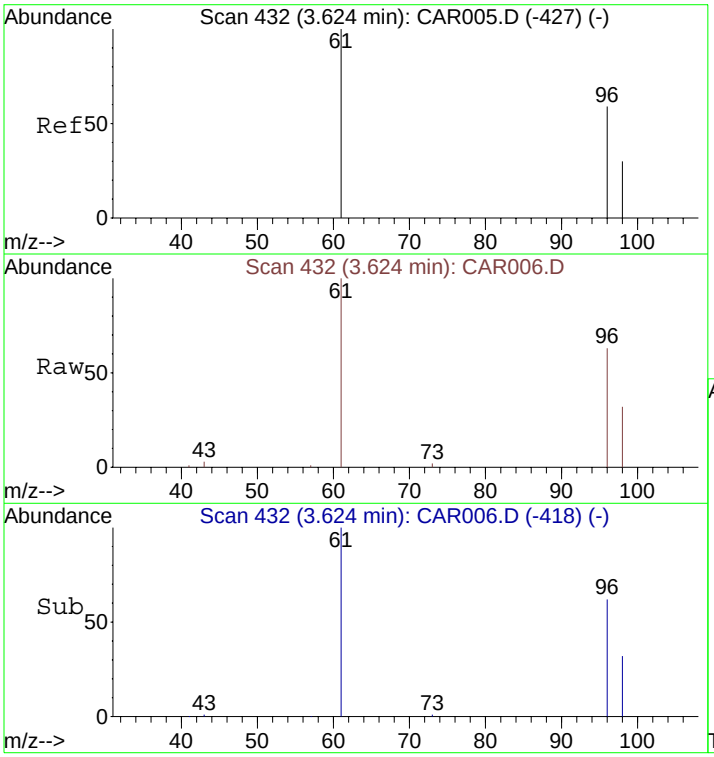


#4
Methyl tert-Butyl Ether (MTBE)
Concen: 53.46 ppbv
RT: 3.57 min Scan# 427
Delta R.T. 0.08 min
Lab File: CAR006.D
Acq: 15 Sep 2008 15:44

Tgt Ion: 73 Resp: 15617

Ion	Ratio	Lower	Upper
73	100		
57	26.7	32.6	49.0#
41	27.7	139.4	209.2#
43	26.0	76.7	115.1#

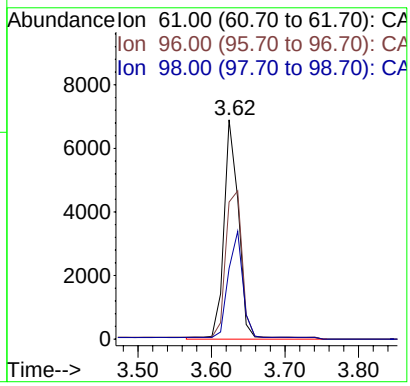


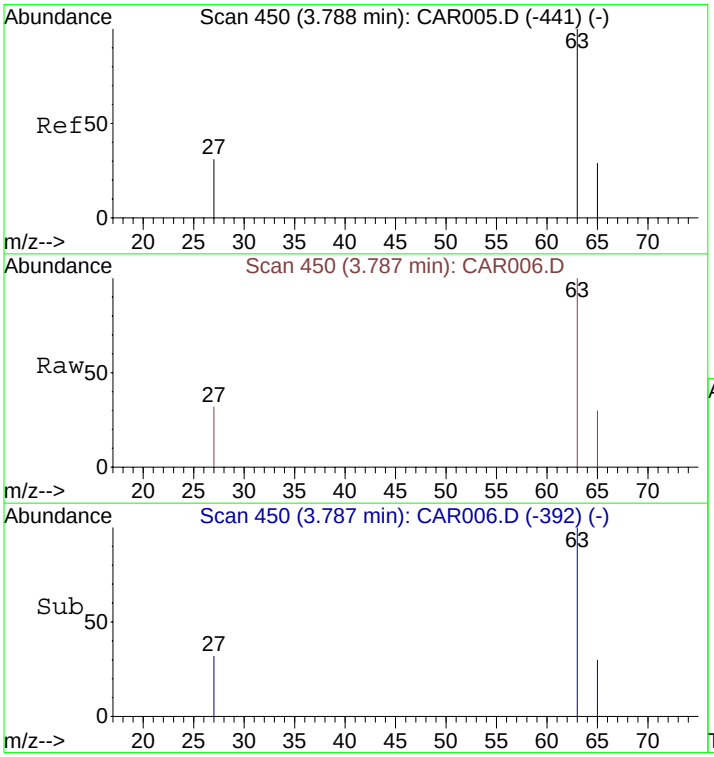


#5
trans-1,2-Dichloroethene
Concen: 51.68 ppbv
RT: 3.62 min Scan# 432
Delta R.T. -0.03 min
Lab File: CAR006.D
Acq: 15 Sep 2008 15:44

Tgt Ion: 61 Resp: 9371

Ion	Ratio	Lower	Upper
61	100		
96	75.2	55.0	82.4
98	48.0	35.6	53.4

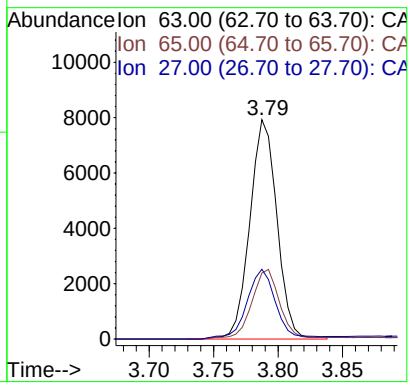


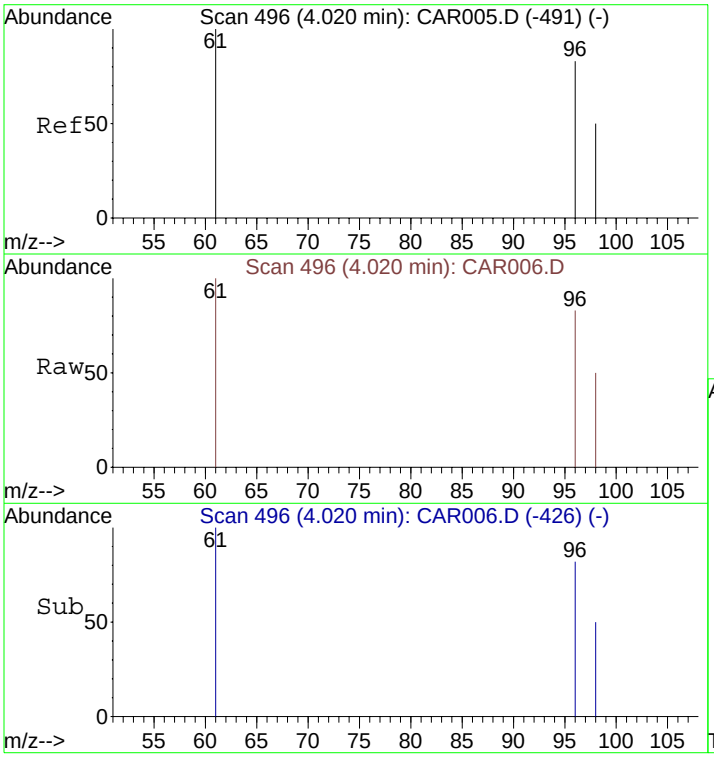


#6
1,1-Dichloroethane
Concen: 55.36 ppbv
RT: 3.79 min Scan# 450
Delta R.T. -0.03 min
Lab File: CAR006.D
Acq: 15 Sep 2008 15:44

Tgt Ion: 63 Resp: 13186

Ion	Ratio	Lower	Upper
63	100		
65	32.8	23.5	35.3
27	34.1	26.7	40.1

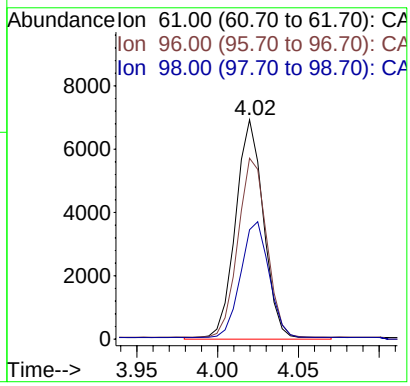


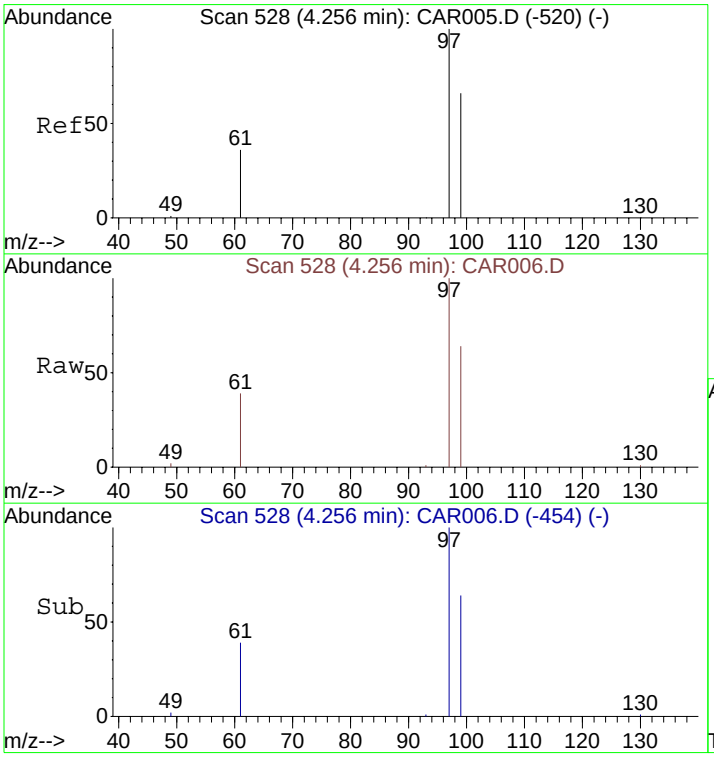


#7
cis-1,2-Dichloroethene
Concen: 46.56 ppbv m
RT: 4.02 min Scan# 496
Delta R.T. -0.04 min
Lab File: CAR006.D
Acq: 15 Sep 2008 15:44

Tgt Ion: 61 Resp: 8441

Ion	Ratio	Lower	Upper
61	100		
96	85.7	56.0	84.0#
98	55.4	36.2	54.4#

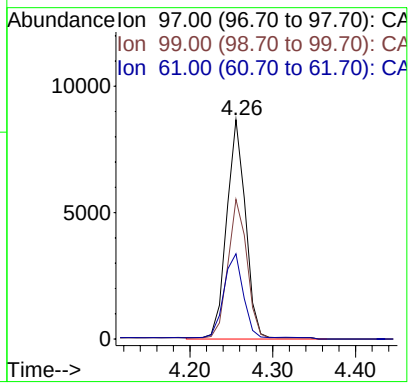


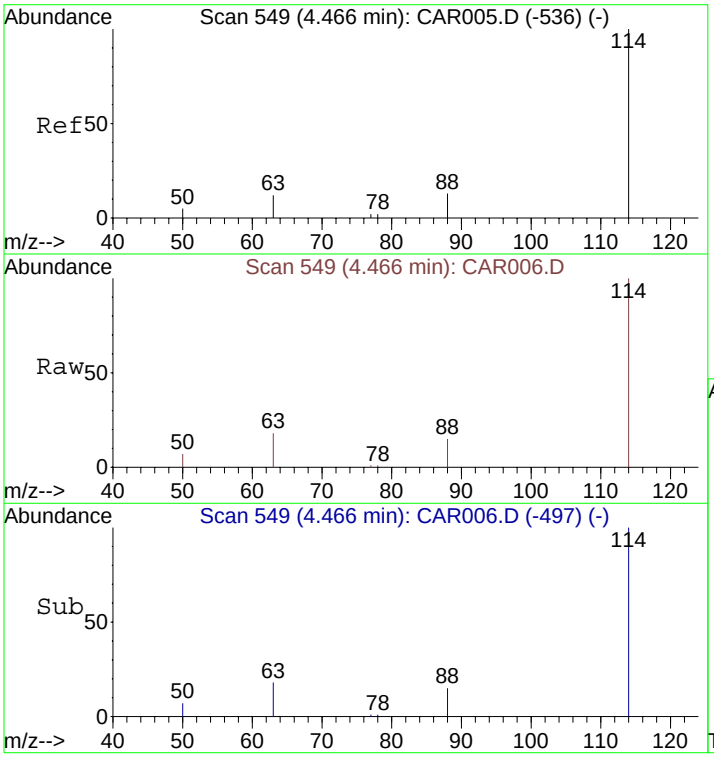


#8
1,1,1-Trichloroethane
Concen: 51.78 ppbv
RT: 4.26 min Scan# 528
Delta R.T. -0.05 min
Lab File: CAR006.D
Acq: 15 Sep 2008 15:44

Tgt Ion: 97 Resp: 13947

Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.8	77.8
61	38.4	32.1	48.1

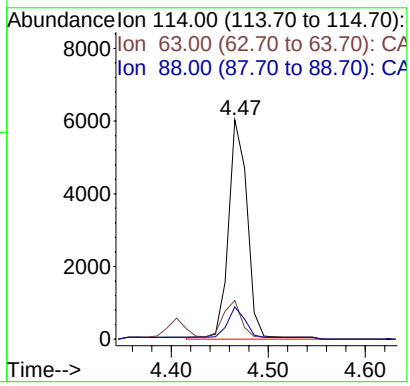


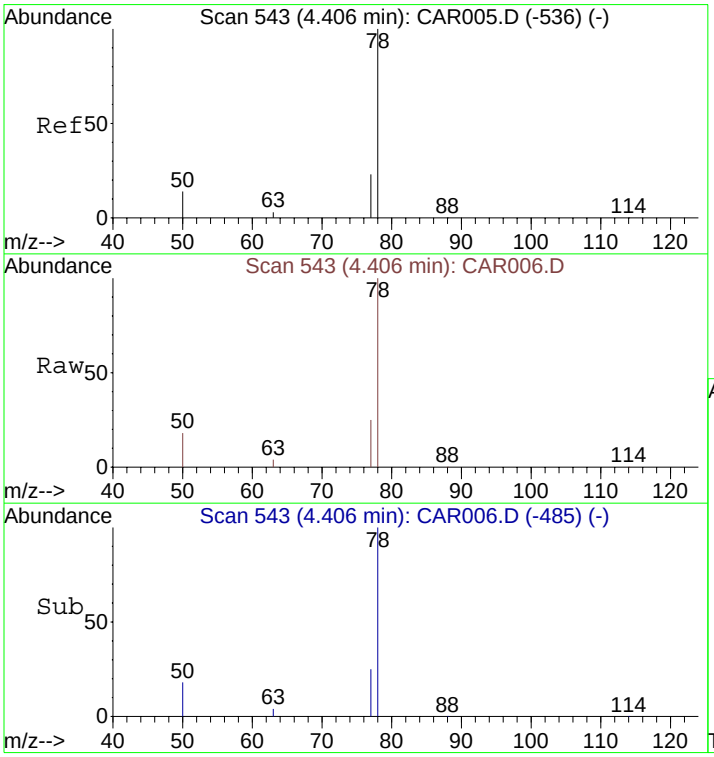


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. -0.06 min
Lab File: CAR006.D
Acq: 15 Sep 2008 15:44

Tgt Ion:114 Resp: 7916

Ion	Ratio	Lower	Upper
114	100		
63	20.0	15.8	23.8
88	12.8	12.2	18.2

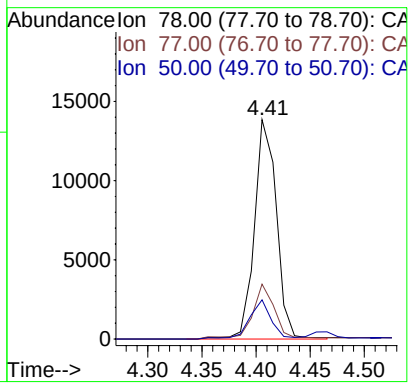


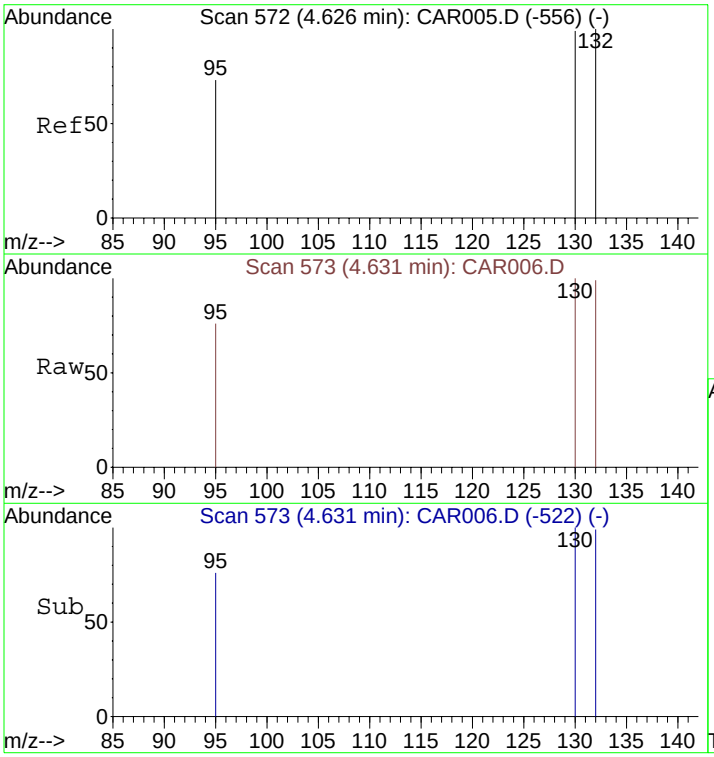


#10
Benzene
Concen: 40.76 ppbv
RT: 4.41 min Scan# 543
Delta R.T. -0.06 min
Lab File: CAR006.D
Acq: 15 Sep 2008 15:44

Tgt Ion: 78 Resp: 19624

Ion	Ratio	Lower	Upper
78	100		
77	25.9	18.6	28.0
50	17.8	16.2	24.4

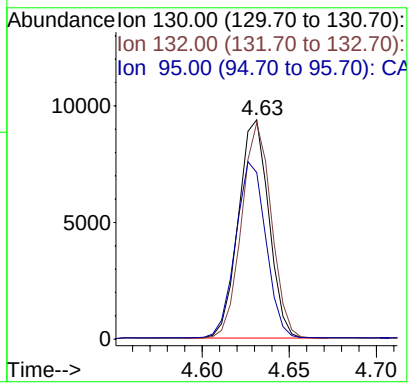


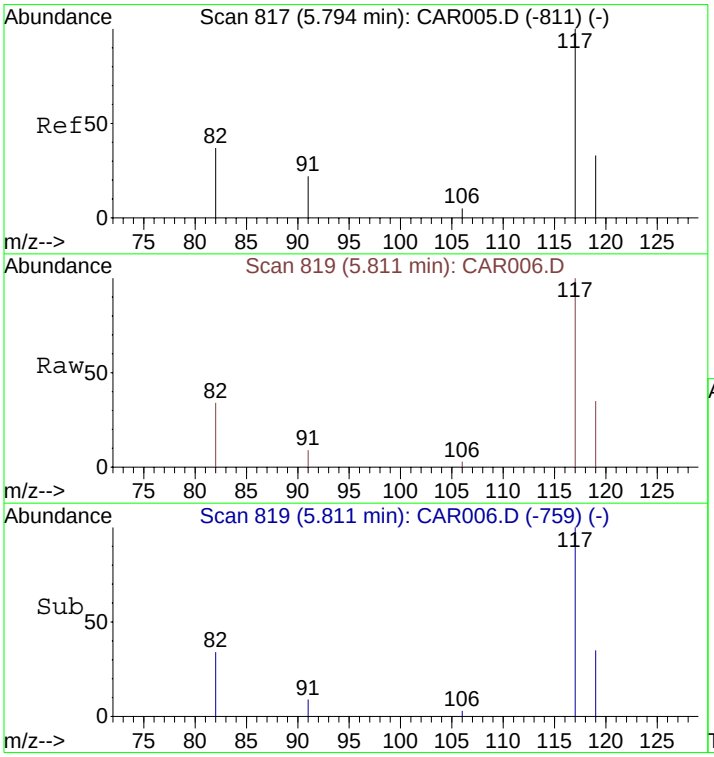


#11
Trichloroethene
Concen: 48.54 ppbv
RT: 4.63 min Scan# 573
Delta R.T. -0.07 min
Lab File: CAR006.D
Acq: 15 Sep 2008 15:44

Tgt Ion:130 Resp: 11379

Ion	Ratio	Lower	Upper
130	100		
132	96.6	73.8	110.6
95	80.0	72.5	108.7

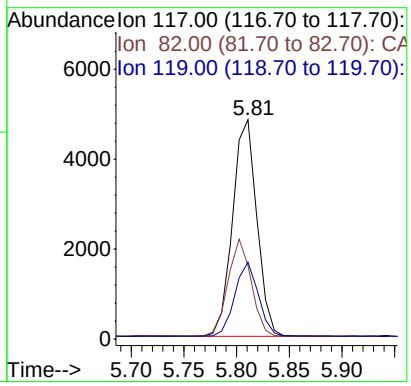


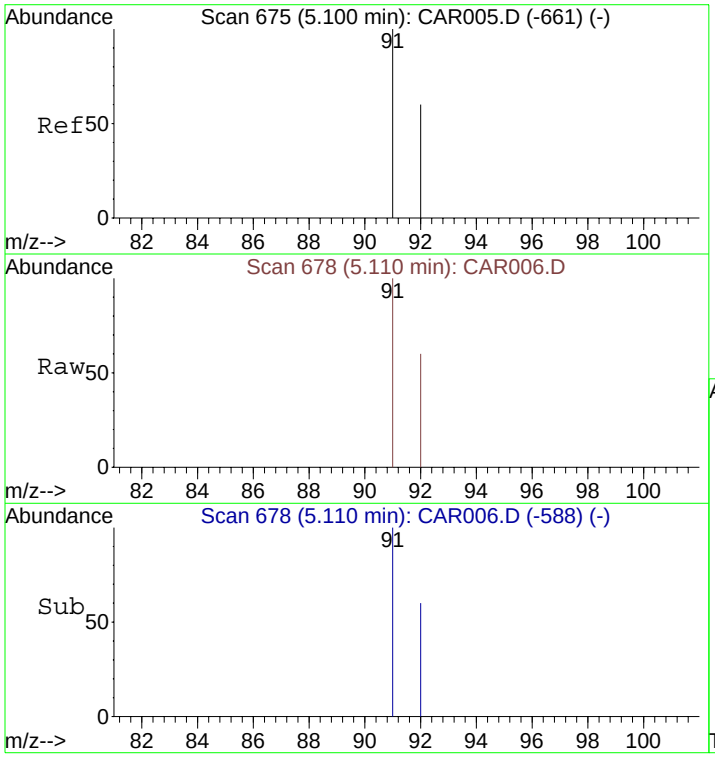


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.81 min Scan# 819
Delta R.T. -0.12 min
Lab File: CAR006.D
Acq: 15 Sep 2008 15:44

Tgt Ion:117 Resp: 7737

Ion	Ratio	Lower	Upper
117	100		
82	42.9	38.3	57.5
119	33.5	26.0	39.0

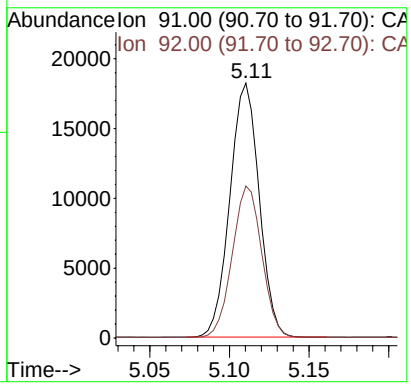


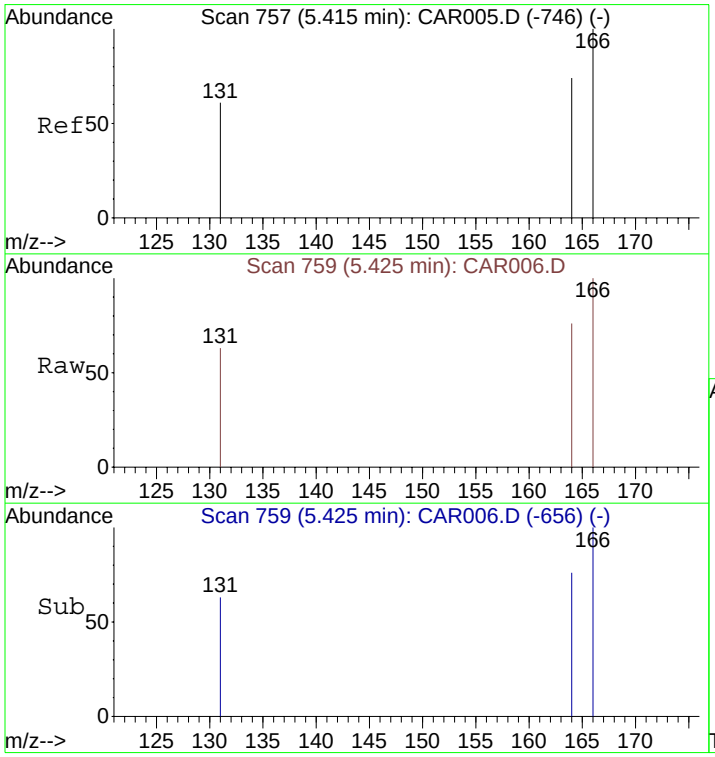


#13
Toluene
Concen: 49.55 ppbv
RT: 5.11 min Scan# 678
Delta R.T. -0.10 min
Lab File: CAR006.D
Acq: 15 Sep 2008 15:44

Tgt Ion: 91 Resp: 23284

Ion	Ratio	Lower	Upper
91	100		
92	59.8	48.2	72.2

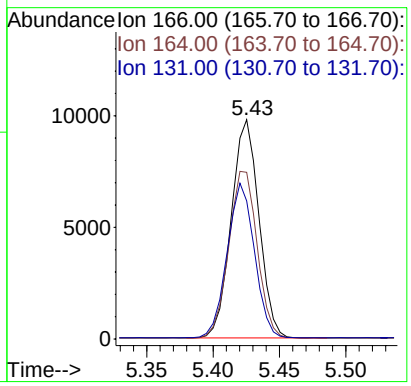


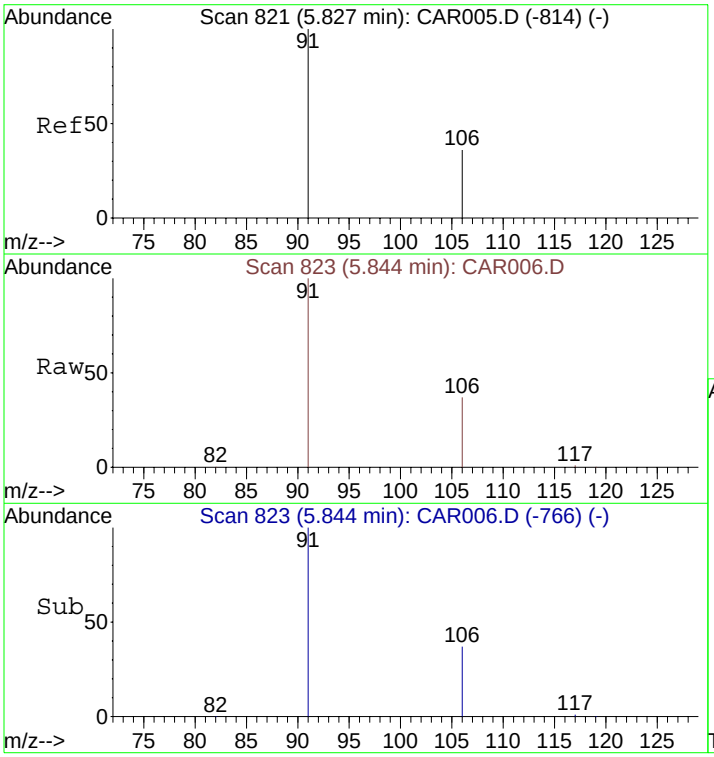


#14
Tetrachloroethene
Concen: 50.15 ppbv
RT: 5.43 min Scan# 759
Delta R.T. -0.11 min
Lab File: CAR006.D
Acq: 15 Sep 2008 15:44

Tgt Ion:166 Resp: 14172

Ion	Ratio	Lower	Upper
166	100		
164	78.4	63.1	94.7
131	69.6	62.9	94.3

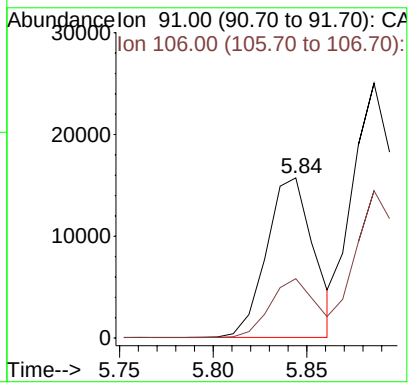


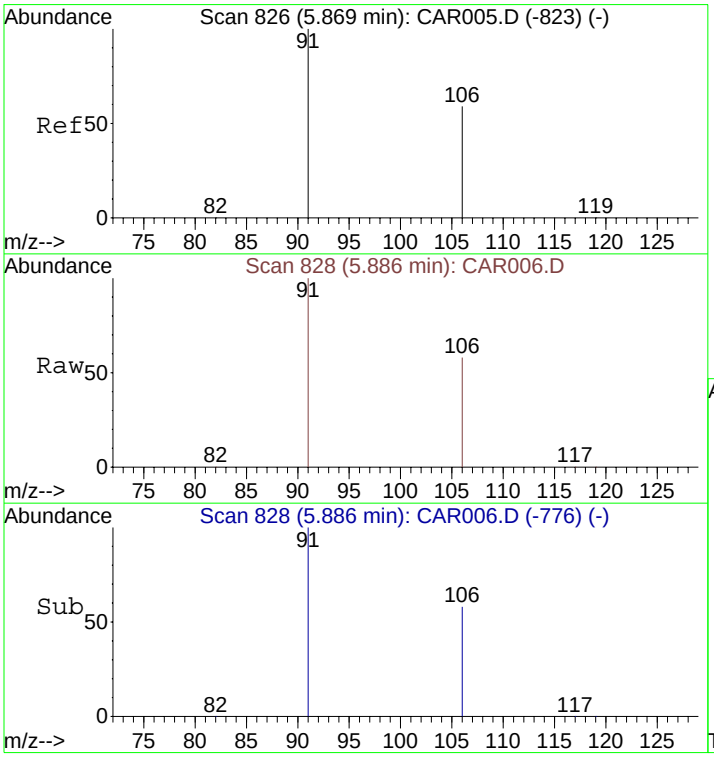


#15
Ethylbenzene
Concen: 50.51 ppbv
RT: 5.84 min Scan# 823
Delta R.T. -0.12 min
Lab File: CAR006.D
Acq: 15 Sep 2008 15:44

Tgt Ion: 91 Resp: 27475

Ion	Ratio	Lower	Upper
91	100		
106	35.7	26.3	39.5

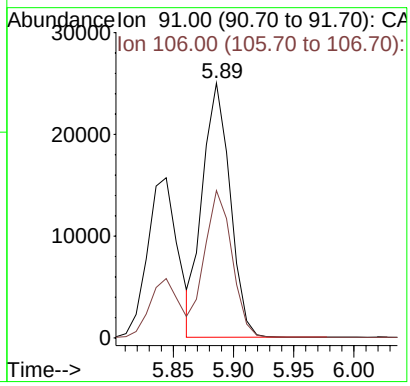


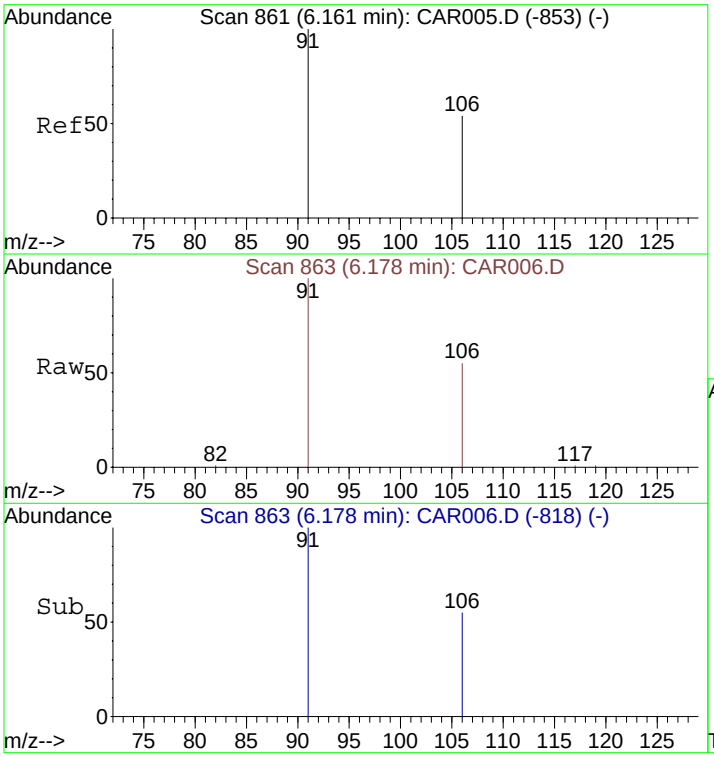


#16
m&p-Xylenes
Concen: 103.88 ppbv
RT: 5.89 min Scan# 828
Delta R.T. -0.13 min
Lab File: CAR006.D
Acq: 15 Sep 2008 15:44

Tgt Ion: 91 Resp: 39866

Ion	Ratio	Lower	Upper
91	100		
106	58.0	41.8	62.8

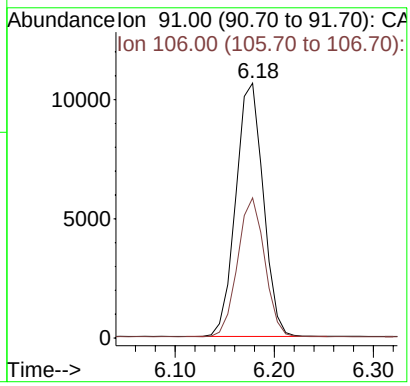




#17
o-Xylene
Concen: 46.62 ppbv
RT: 6.18 min Scan# 863
Delta R.T. -0.13 min
Lab File: CAR006.D
Acq: 15 Sep 2008 15:44

Tgt Ion: 91 Resp: 20471

Ion	Ratio	Lower	Upper
91	100		
106	54.0	38.9	58.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080915\CAR007.D Vial: 1
Acq On : 15 Sep 2008 15:57 Operator: dlm
Sample : STD20080915-5 Inst : Instrumen
Misc : 5 ppbv ICAL std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 13:39:18 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Mon Sep 15 13:24:07 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	2106	10.00 ppbv	-0.04
9) 1,4-Difluorobenzene	4.48	114	7714	10.00 ppbv	-0.05
12) Chlorobenzene-d5	5.84	117	7657	10.00 ppbv	-0.09

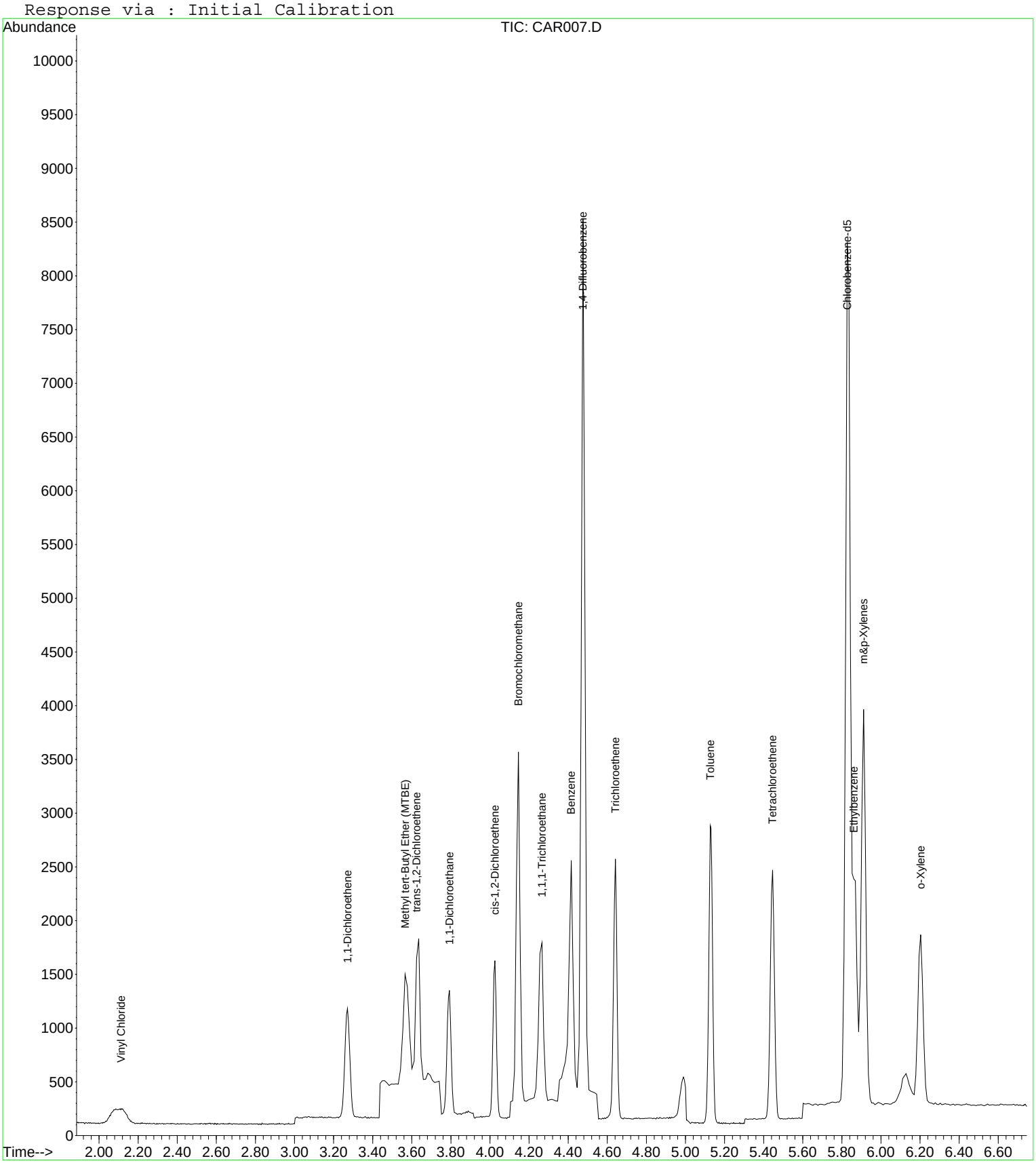
Target Compounds					Qvalue
2) Vinyl Chloride	2.11	62	570m	4.73 ppbv	
3) 1,1-Dichloroethene	3.27	61	932	4.95 ppbv	93
4) Methyl tert-Butyl Ether (M	3.57	73	1320m	4.63 ppbv	
5) trans-1,2-Dichloroethene	3.62	61	862	4.87 ppbv	93
6) 1,1-Dichloroethane	3.79	63	1065m	4.58 ppbv	
7) cis-1,2-Dichloroethene	4.02	61	805m	4.55 ppbv	
8) 1,1,1-Trichloroethane	4.27	97	1248m	4.75 ppbv	
10) Benzene	4.42	78	2184m	4.66 ppbv	
11) Trichloroethene	4.64	130	1079m	4.72 ppbv	
13) Toluene	5.13	91	2319	4.99 ppbv	99
14) Tetrachloroethene	5.45	166	1363	4.87 ppbv	95
15) Ethylbenzene	5.87	91	2664	4.95 ppbv	97
16) m&p-Xylenes	5.91	91	3710	9.77 ppbv	93
17) o-Xylene	6.20	91	1917	4.41 ppbv	86

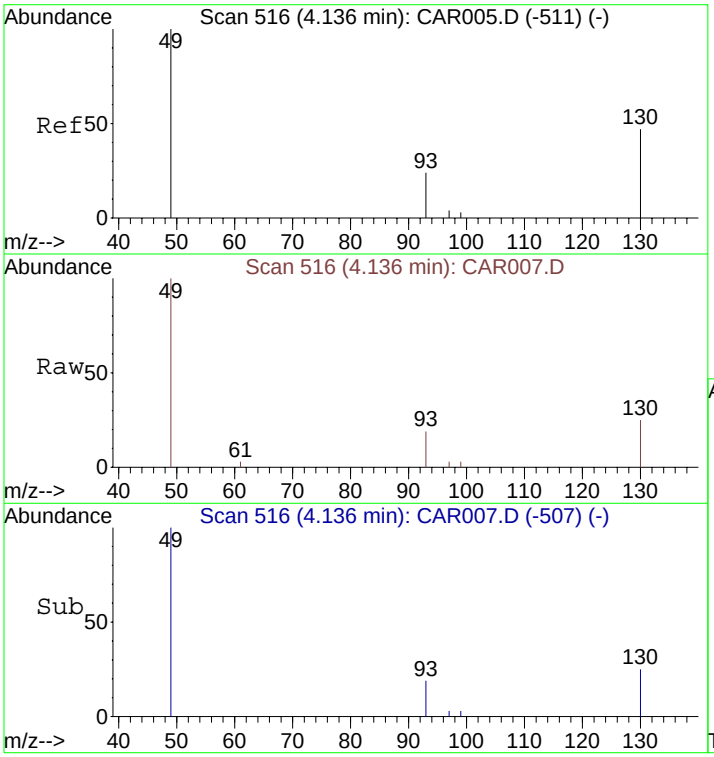
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080915\CAR007.D Vial: 1
Acq On : 15 Sep 2008 15:57 Operator: dlm
Sample : STD20080915-5 Inst : Instrumen
Misc : 5 ppbv ICAL std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 8:35 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Wed Nov 05 16:35:43 2008
Response via : Initial Calibration

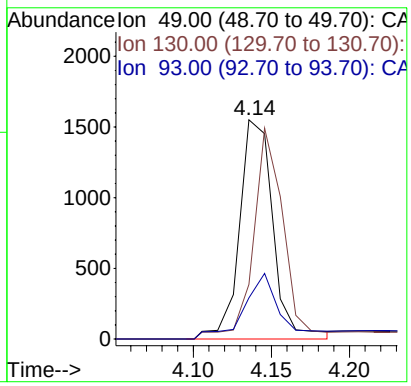


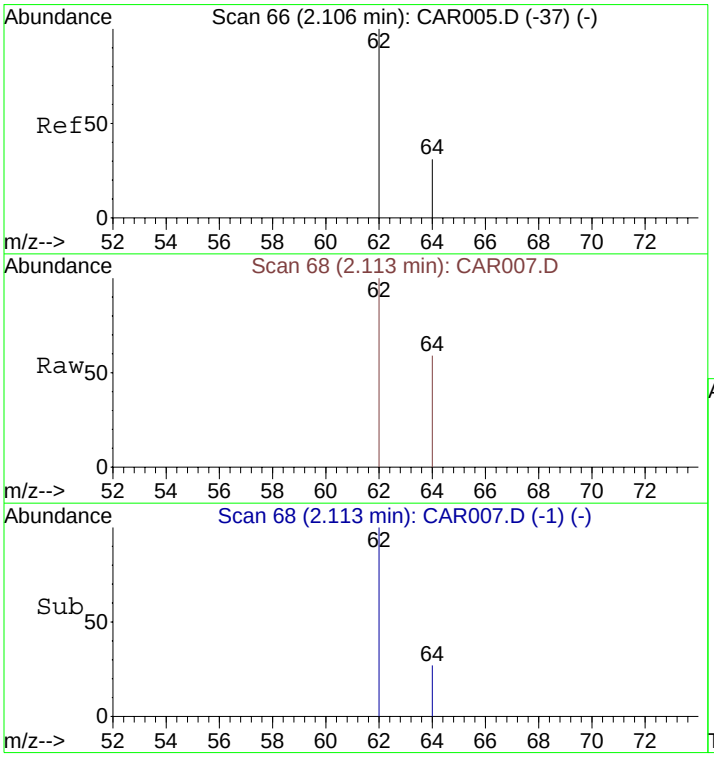


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. -0.04 min
Lab File: CAR007.D
Acq: 15 Sep 2008 15:57

Tgt Ion: 49 Resp: 2106

Ion	Ratio	Lower	Upper
49	100		
130	87.5	65.1	97.7
93	32.9	33.8	50.6#

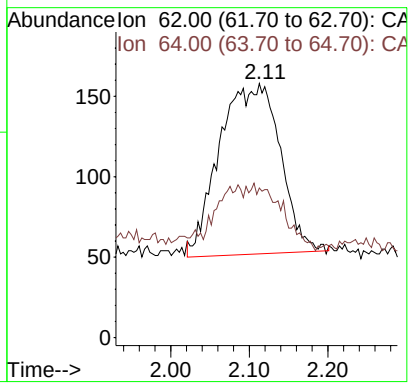


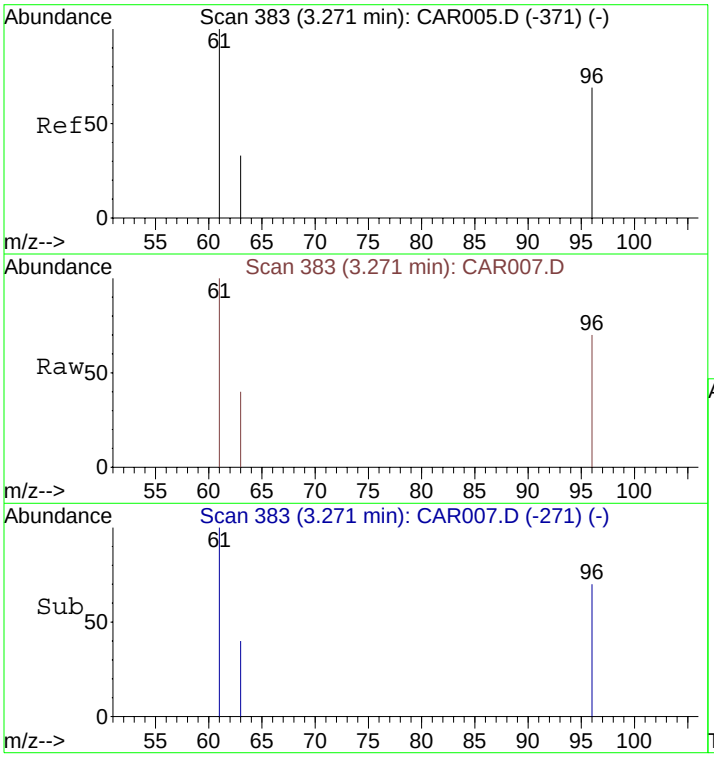


#2
Vinyl Chloride
Concen: 4.73 ppbv m
RT: 2.11 min Scan# 68
Delta R.T. -0.17 min
Lab File: CAR007.D
Acq: 15 Sep 2008 15:57

Tgt Ion: 62 Resp: 570

Ion	Ratio	Lower	Upper
62	100		
64	32.1	9.4	14.2#

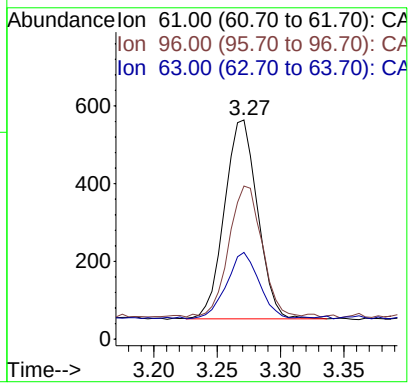


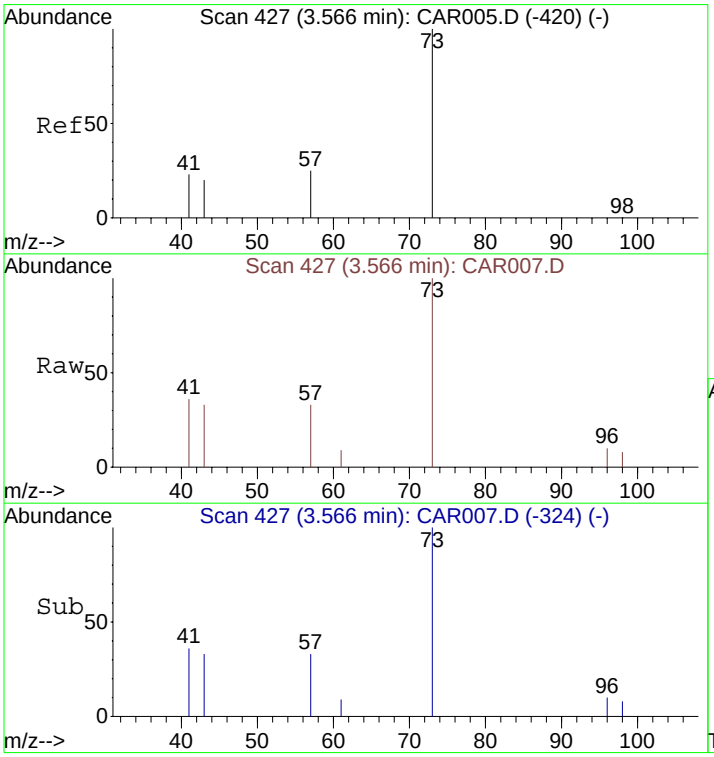


#3
1,1-Dichloroethene
Concen: 4.95 ppbv
RT: 3.27 min Scan# 383
Delta R.T. -0.03 min
Lab File: CAR007.D
Acq: 15 Sep 2008 15:57

Tgt Ion: 61 Resp: 932

Ion	Ratio	Lower	Upper
61	100		
96	63.9	45.7	68.5
63	32.0	25.0	37.4

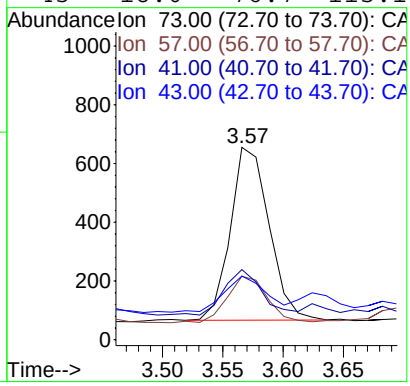


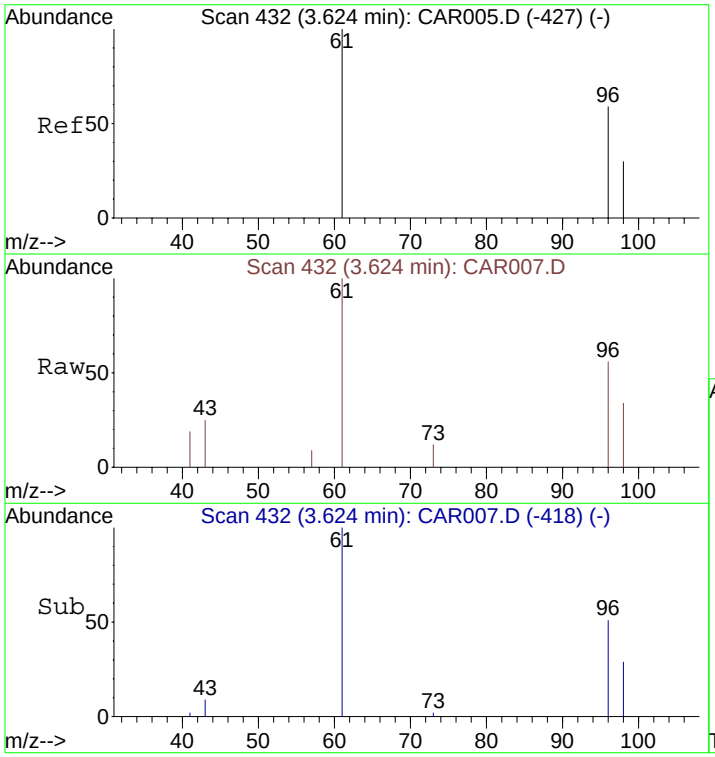


#4
Methyl tert-Butyl Ether (MTBE)
Concen: 4.63 ppbv m
RT: 3.57 min Scan# 427
Delta R.T. 0.08 min
Lab File: CAR007.D
Acq: 15 Sep 2008 15:57

Tgt Ion: 73 Resp: 1320

Ion	Ratio	Lower	Upper
73	100		
57	25.5	32.6	49.0#
41	38.9	139.4	209.2#
43	18.0	76.7	115.1#

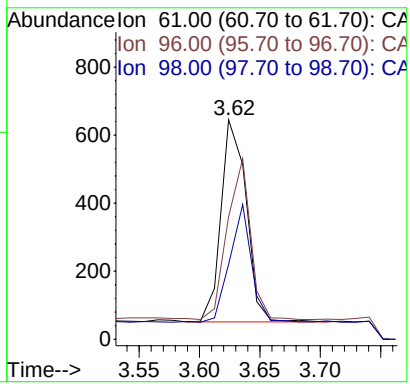


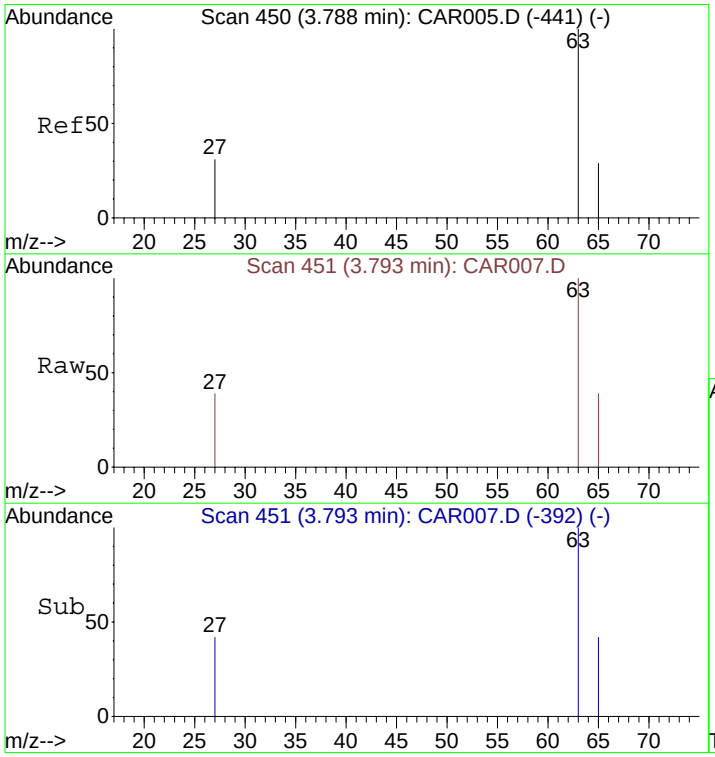


#5
trans-1,2-Dichloroethene
Concen: 4.87 ppbv
RT: 3.62 min Scan# 432
Delta R.T. -0.03 min
Lab File: CAR007.D
Acq: 15 Sep 2008 15:57

Tgt Ion: 61 Resp: 862

Ion	Ratio	Lower	Upper
61	100		
96	73.0	55.0	82.4
98	50.2	35.6	53.4

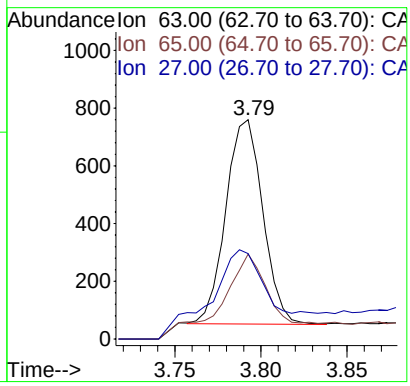


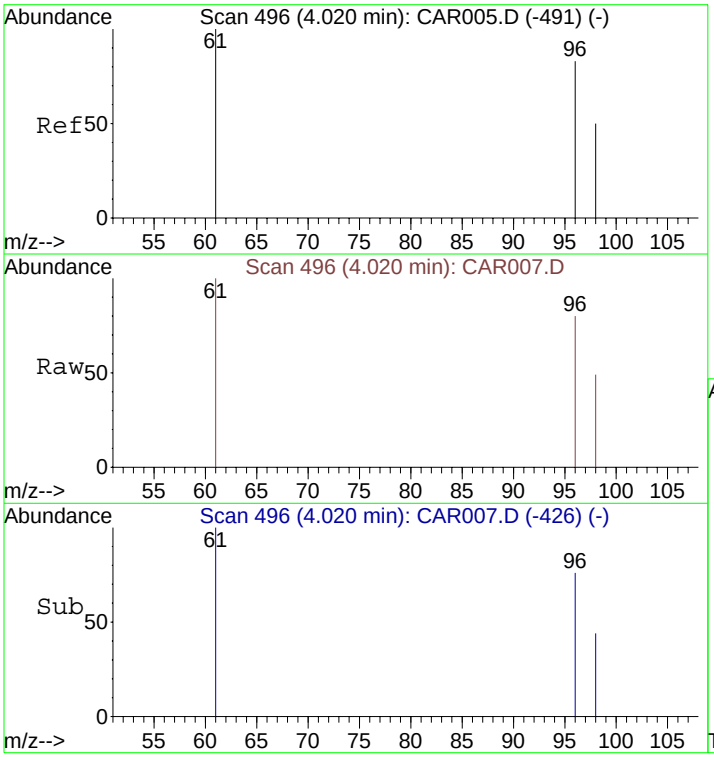


#6
1,1-Dichloroethane
Concen: 4.58 ppbv m
RT: 3.79 min Scan# 451
Delta R.T. -0.03 min
Lab File: CAR007.D
Acq: 15 Sep 2008 15:57

Tgt Ion: 63 Resp: 1065

Ion	Ratio	Lower	Upper
63	100		
65	65.4	23.5	35.3#
27	84.2	26.7	40.1#

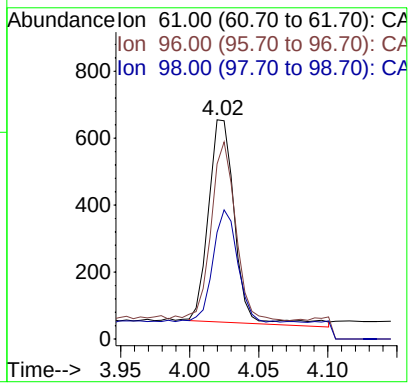


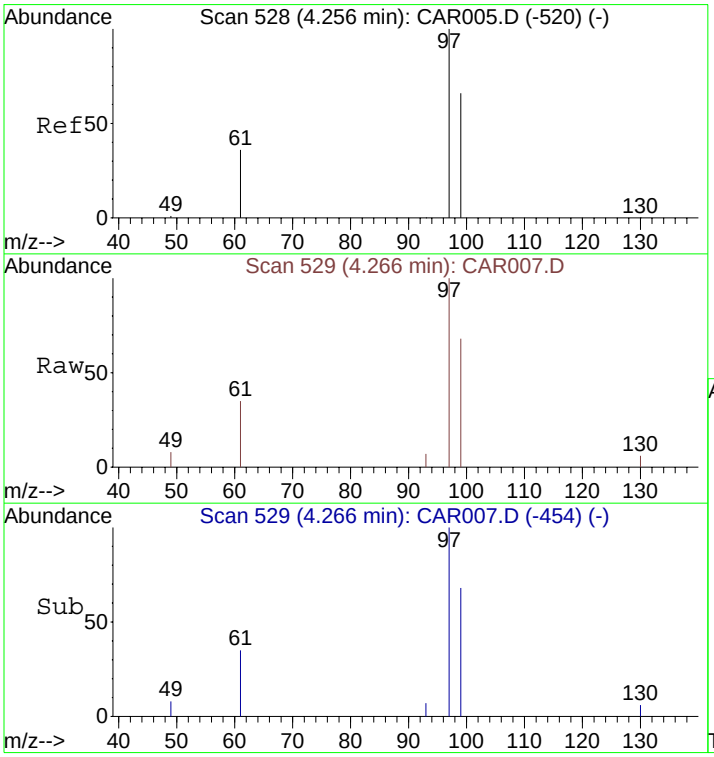


#7
cis-1,2-Dichloroethene
Concen: 4.55 ppbv m
RT: 4.02 min Scan# 496
Delta R.T. -0.04 min
Lab File: CAR007.D
Acq: 15 Sep 2008 15:57

Tgt Ion: 61 Resp: 805

Ion	Ratio	Lower	Upper
61	100		
96	76.0	56.0	84.0
98	60.7	36.2	54.4#

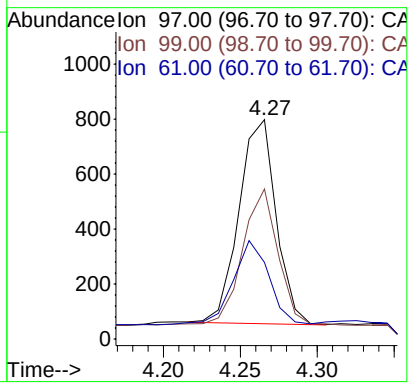


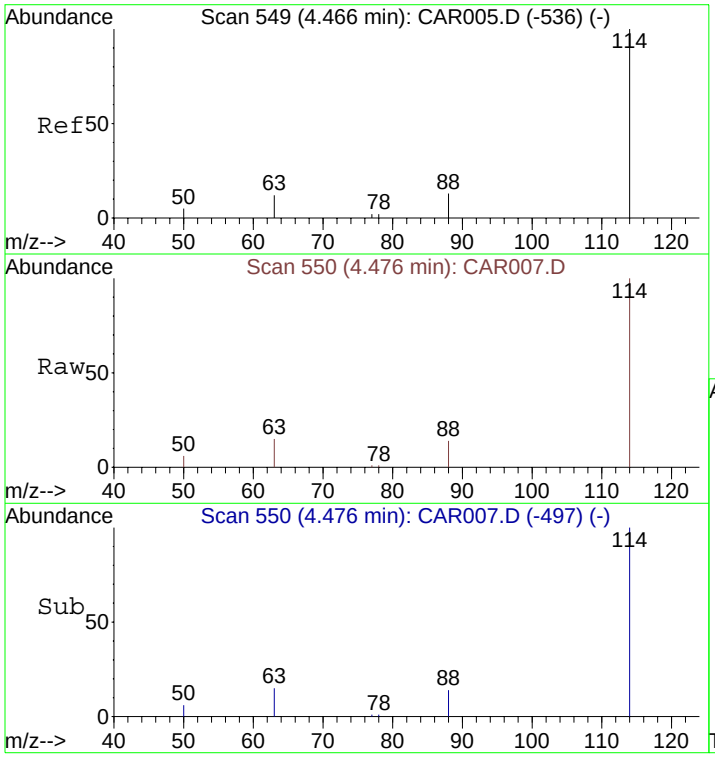


#8
1,1,1-Trichloroethane
Concen: 4.75 ppbv m
RT: 4.27 min Scan# 529
Delta R.T. -0.04 min
Lab File: CAR007.D
Acq: 15 Sep 2008 15:57

Tgt Ion: 97 Resp: 1248

Ion	Ratio	Lower	Upper
97	100		
99	95.4	51.8	77.8#
61	39.1	32.1	48.1

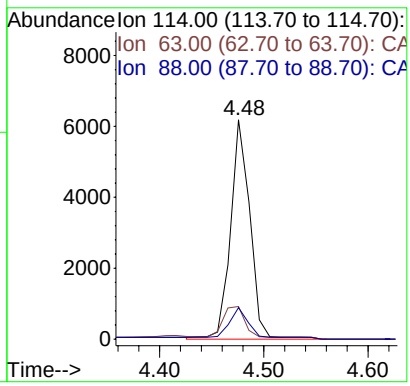


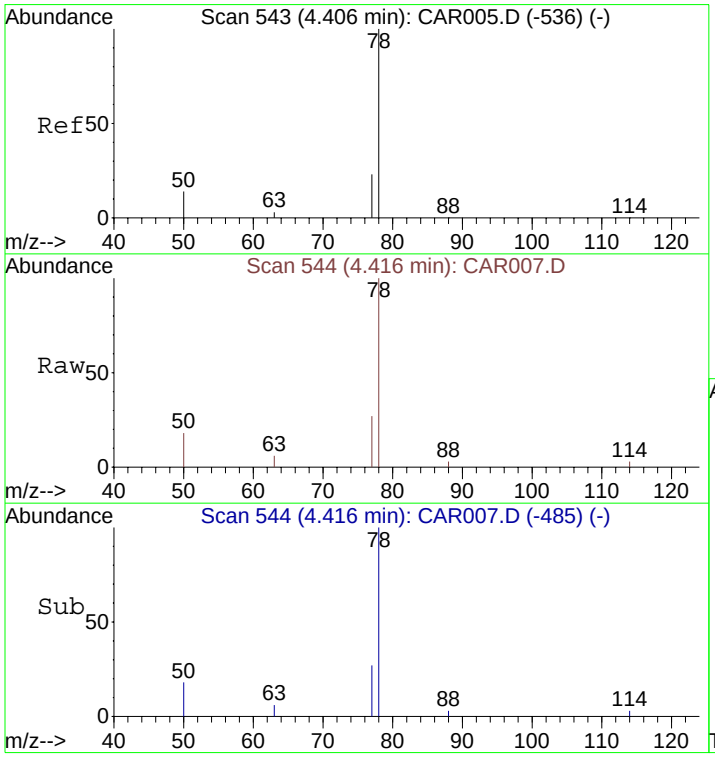


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. -0.05 min
Lab File: CAR007.D
Acq: 15 Sep 2008 15:57

Tgt Ion:114 Resp: 7714

Ion	Ratio	Lower	Upper
114	100		
63	20.0	15.8	23.8
88	13.8	12.2	18.2

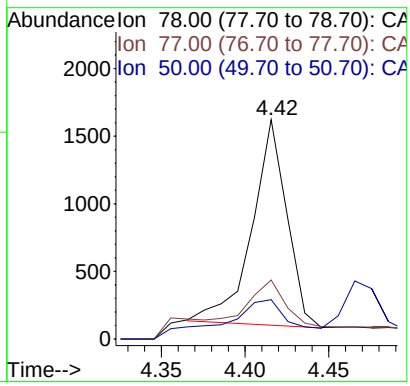


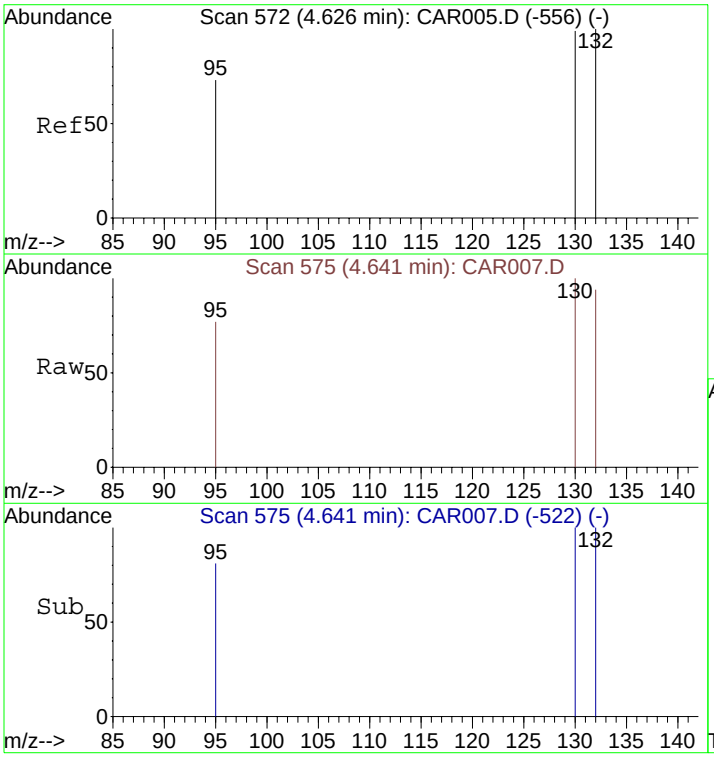


#10
Benzene
Concen: 4.66 ppbv m
RT: 4.42 min Scan# 544
Delta R.T. -0.05 min
Lab File: CAR007.D
Acq: 15 Sep 2008 15:57

Tgt Ion: 78 Resp: 2184

Ion	Ratio	Lower	Upper
78	100		
77	75.5	18.6	28.0#
50	37.8	16.2	24.4#

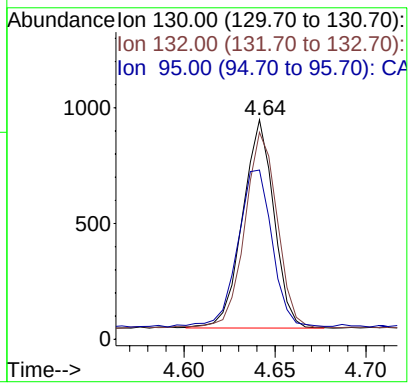


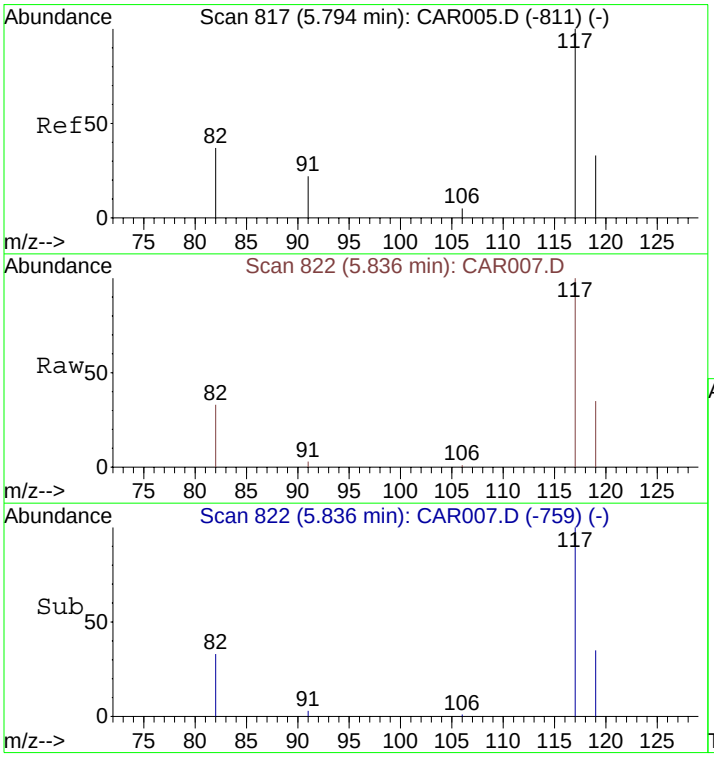


#11
Trichloroethene
Concen: 4.72 ppbv m
RT: 4.64 min Scan# 575
Delta R.T. -0.06 min
Lab File: CAR007.D
Acq: 15 Sep 2008 15:57

Tgt Ion:130 Resp: 1079

Ion	Ratio	Lower	Upper
130	100		
132	102.3	73.8	110.6
95	80.9	72.5	108.7

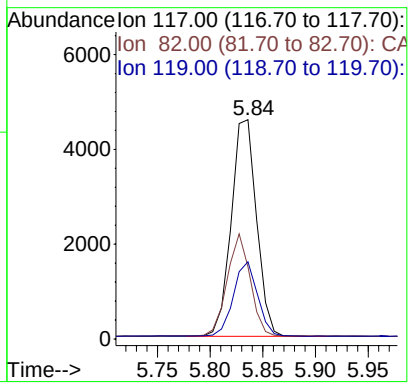


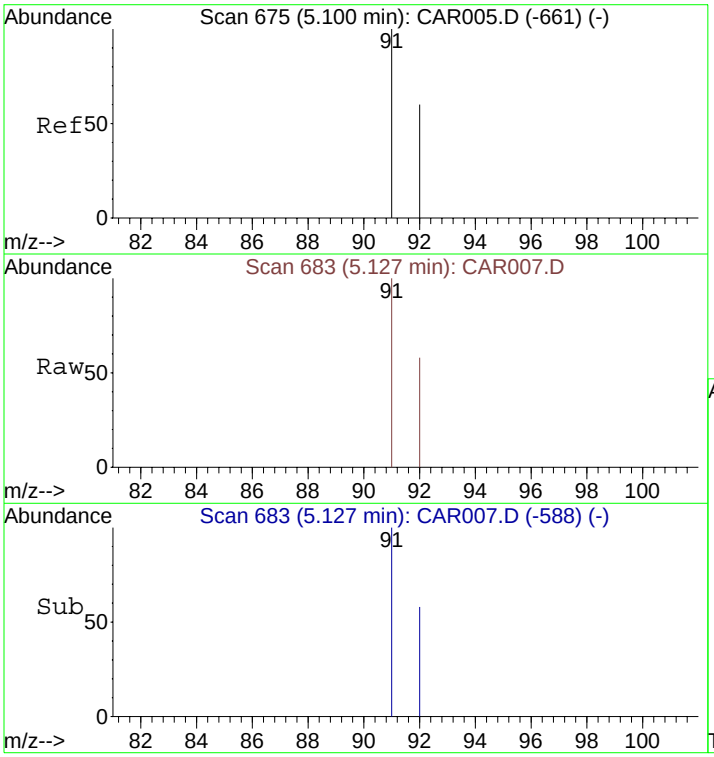


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.84 min Scan# 822
Delta R.T. -0.09 min
Lab File: CAR007.D
Acq: 15 Sep 2008 15:57

Tgt Ion:117 Resp: 7657

Ion	Ratio	Lower	Upper
117	100		
82	42.8	38.3	57.5
119	33.0	26.0	39.0

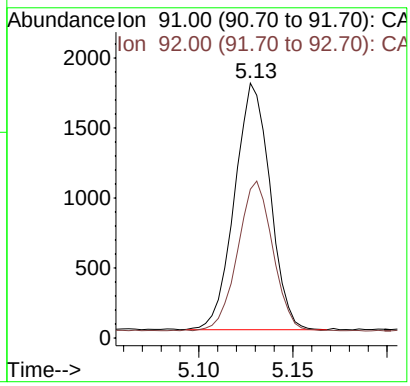


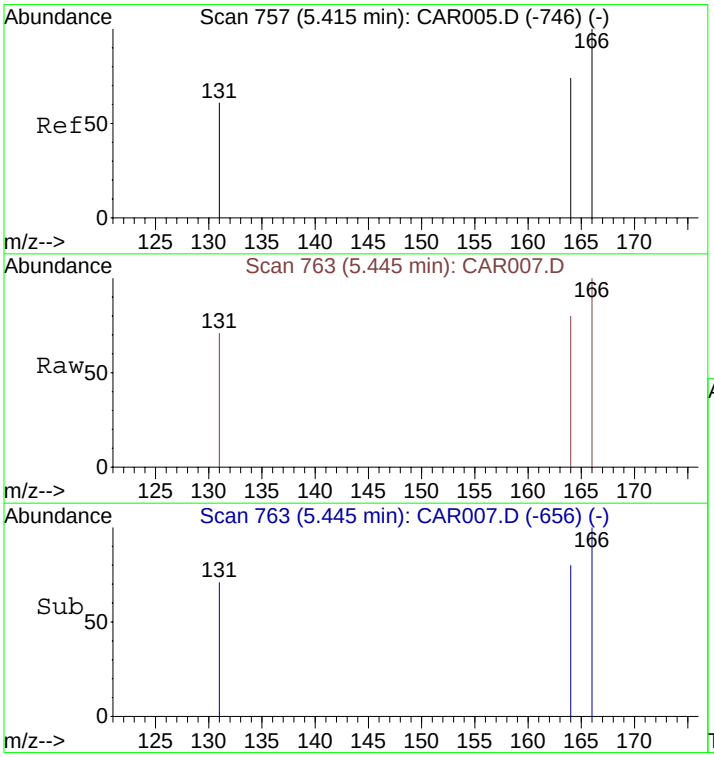


#13
Toluene
Concen: 4.99 ppbv
RT: 5.13 min Scan# 683
Delta R.T. -0.08 min
Lab File: CAR007.D
Acq: 15 Sep 2008 15:57

Tgt Ion: 91 Resp: 2319

Ion	Ratio	Lower	Upper
91	100		
92	59.5	48.2	72.2

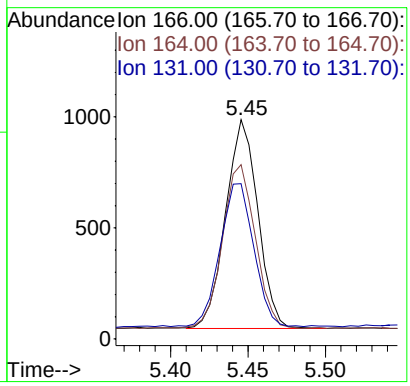


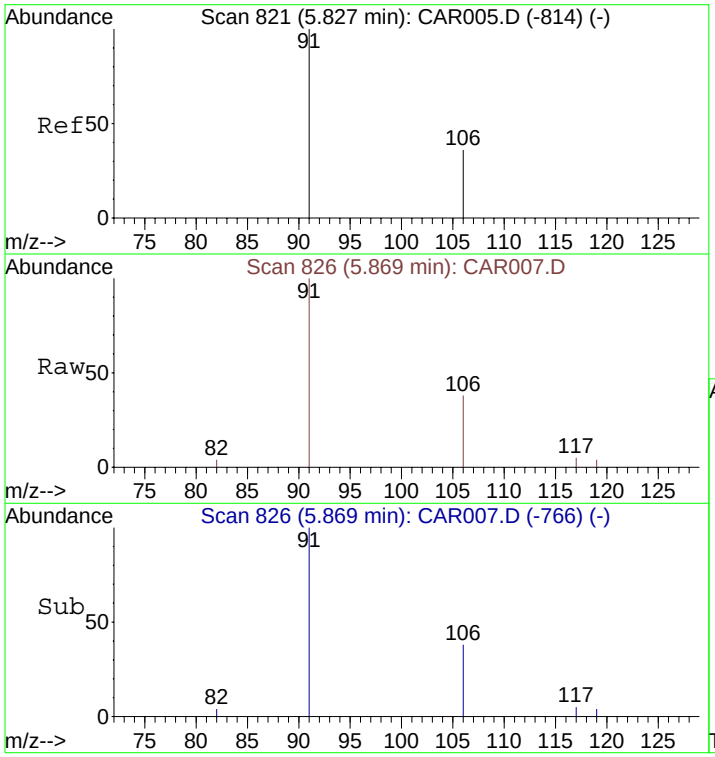


#14
Tetrachloroethene
Concen: 4.87 ppbv
RT: 5.45 min Scan# 763
Delta R.T. -0.09 min
Lab File: CAR007.D
Acq: 15 Sep 2008 15:57

Tgt Ion:166 Resp: 1363

Ion	Ratio	Lower	Upper
166	100		
164	79.6	63.1	94.7
131	70.9	62.9	94.3

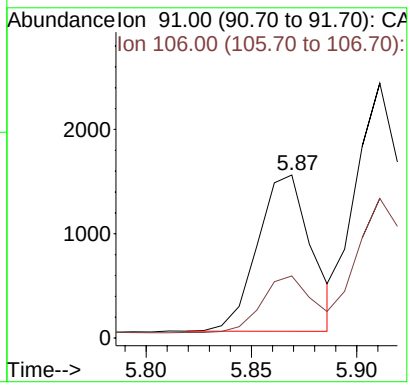


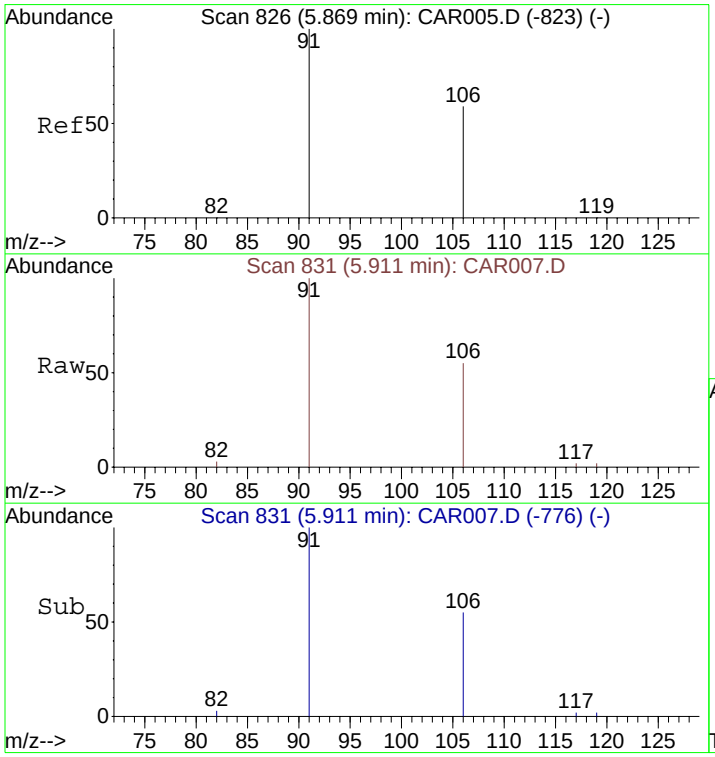


#15
Ethylbenzene
Concen: 4.95 ppbv
RT: 5.87 min Scan# 826
Delta R.T. -0.09 min
Lab File: CAR007.D
Acq: 15 Sep 2008 15:57

Tgt Ion: 91 Resp: 2664

Ion	Ratio	Lower	Upper
91	100		
106	34.6	26.3	39.5

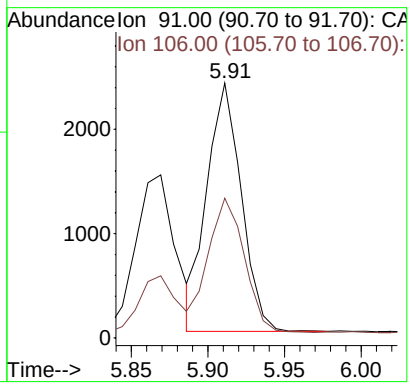


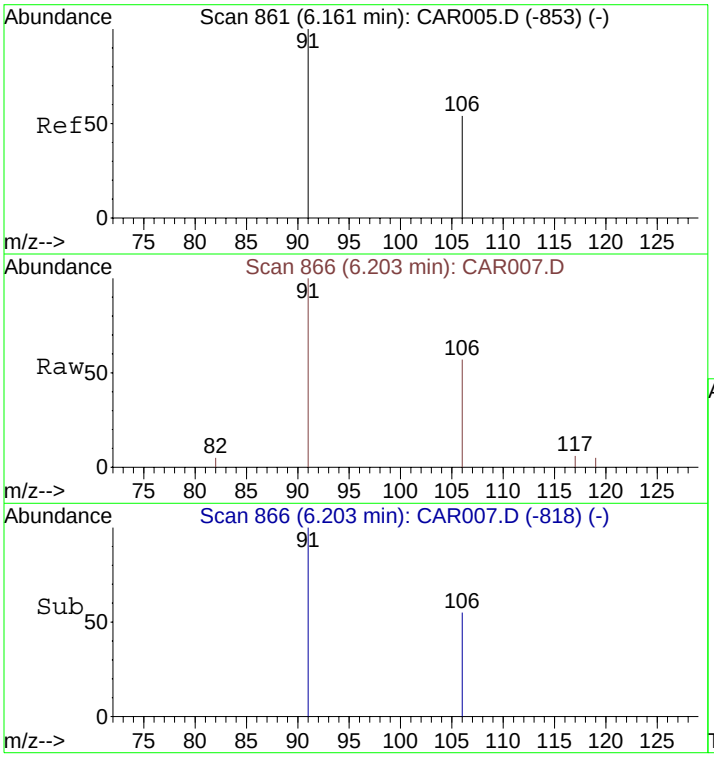


#16
m&p-Xylenes
Concen: 9.77 ppbv
RT: 5.91 min Scan# 831
Delta R.T. -0.10 min
Lab File: CAR007.D
Acq: 15 Sep 2008 15:57

Tgt Ion: 91 Resp: 3710

Ion	Ratio	Lower	Upper
91	100		
106	57.2	41.8	62.8

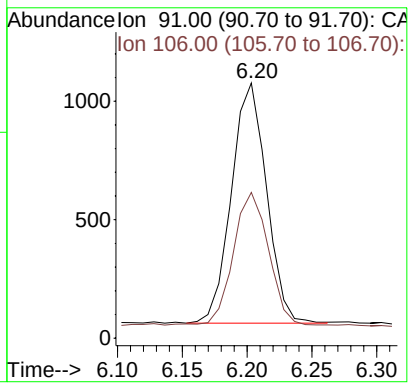




#17
o-Xylene
Concen: 4.41 ppbv
RT: 6.20 min Scan# 866
Delta R.T. -0.10 min
Lab File: CAR007.D
Acq: 15 Sep 2008 15:57

Tgt Ion: 91 Resp: 1917

Ion	Ratio	Lower	Upper
91	100		
106	57.8	38.9	58.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080915\CAR008.D Vial: 1
Acq On : 15 Sep 2008 16:08 Operator: dlm
Sample : STD20080915-6 Inst : Instrumen
Misc : 0.5 ppbv ICAL std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 13:39:29 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Mon Sep 15 13:24:07 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.13	49	2187	10.00 ppbv	-0.04
9) 1,4-Difluorobenzene	4.47	114	7698	10.00 ppbv	-0.05
12) Chlorobenzene-d5	5.82	117	7493	10.00 ppbv	-0.11

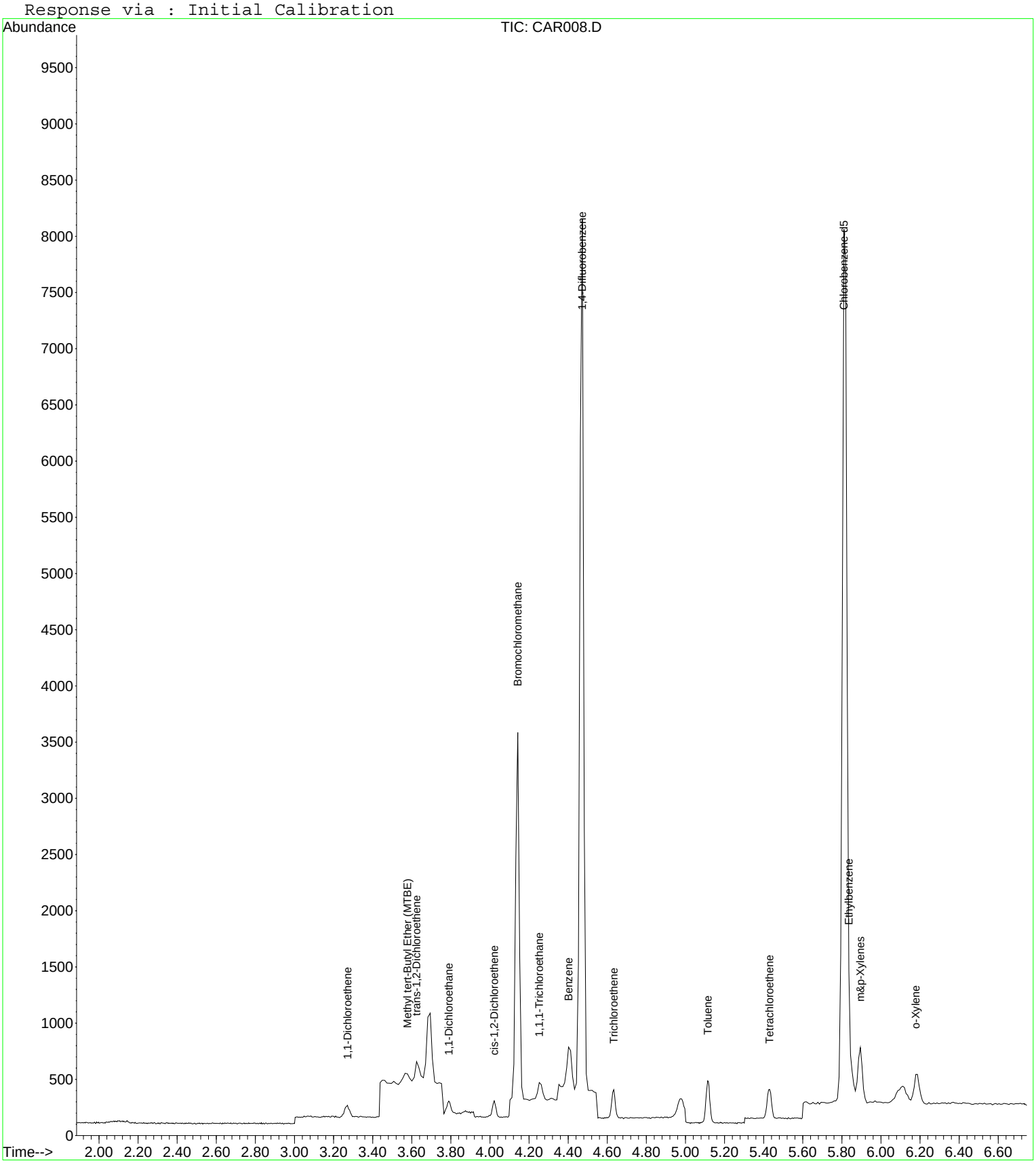
Target Compounds					Qvalue
3) 1,1-Dichloroethene	3.27	61	87	0.45 ppbv #	75
4) Methyl tert-Butyl Ether (M	3.58	73	102m	0.34 ppbv	
5) trans-1,2-Dichloroethene	3.62	61	94	0.51 ppbv #	68
6) 1,1-Dichloroethane	3.79	63	110m	0.46 ppbv	
7) cis-1,2-Dichloroethene	4.02	61	82	0.45 ppbv #	82
8) 1,1,1-Trichloroethane	4.25	97	136m	0.50 ppbv	
10) Benzene	4.40	78	502m	1.07 ppbv	
11) Trichloroethene	4.63	130	125m	0.55 ppbv	
13) Toluene	5.11	91	327	0.72 ppbv	98
14) Tetrachloroethene	5.44	166	171	0.62 ppbv	92
15) Ethylbenzene	5.84	91	344	0.65 ppbv	94
16) m&p-Xylenes	5.89	91	489	1.32 ppbv	92
17) o-Xylene	6.19	91	326	0.77 ppbv	89

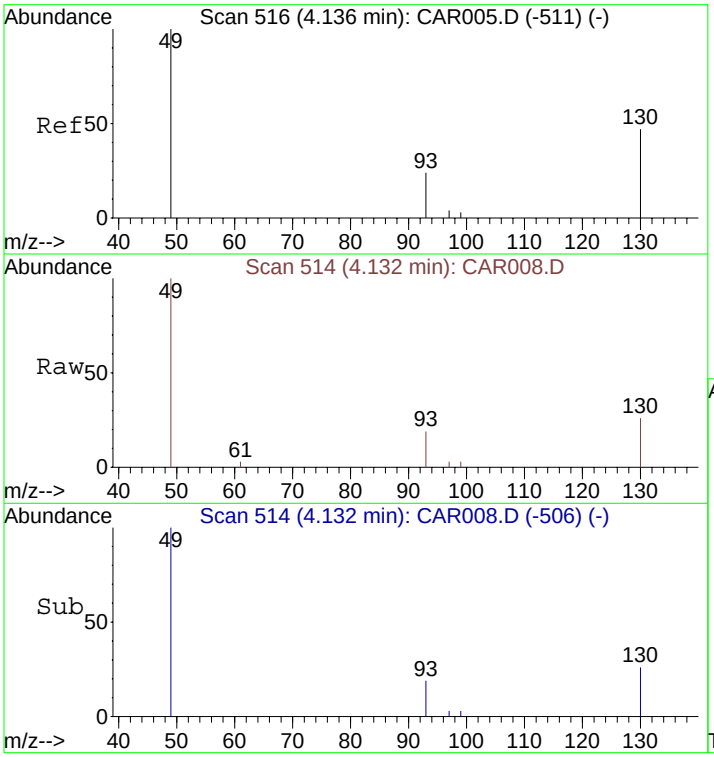
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080915\CAR008.D Vial: 1
Acq On : 15 Sep 2008 16:08 Operator: dlm
Sample : STD20080915-6 Inst : Instrumen
Misc : 0.5 ppbv ICAL std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 26 14:16 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Wed Nov 05 16:35:43 2008
Response via : Initial Calibration

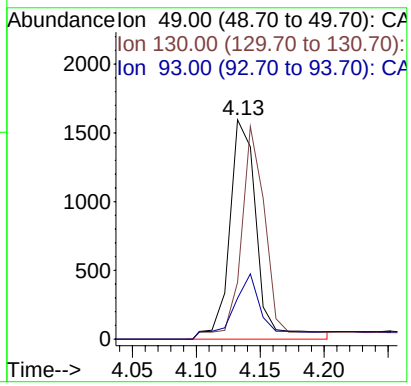


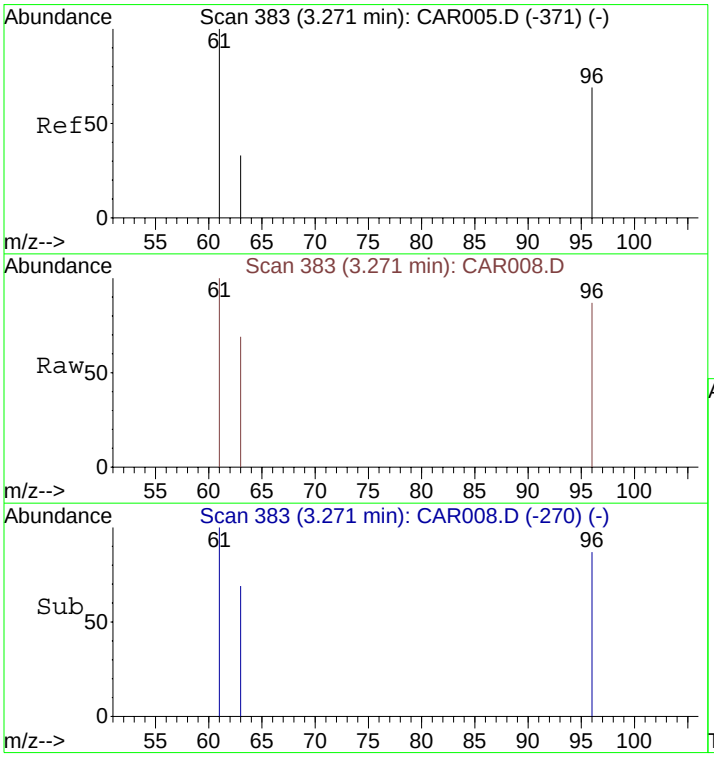


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.13 min Scan# 514
Delta R.T. -0.04 min
Lab File: CAR008.D
Acq: 15 Sep 2008 16:08

Tgt Ion: 49 Resp: 2187

Ion	Ratio	Lower	Upper
49	100		
130	86.2	65.1	97.7
93	33.5	33.8	50.6#

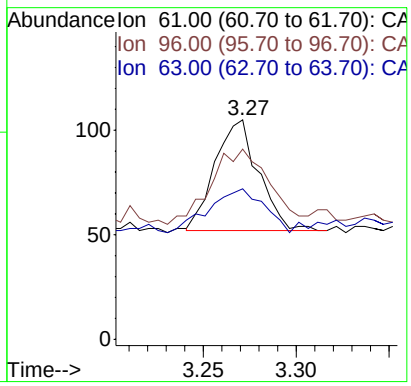


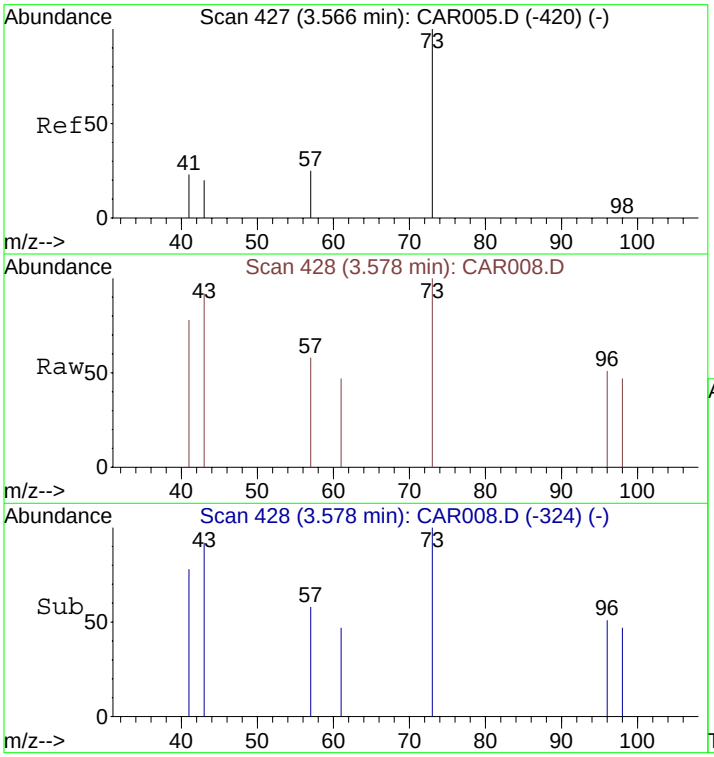


#3
1,1-Dichloroethene
Concen: 0.45 ppbv
RT: 3.27 min Scan# 383
Delta R.T. -0.03 min
Lab File: CAR008.D
Acq: 15 Sep 2008 16:08

Tgt Ion: 61 Resp: 87

Ion	Ratio	Lower	Upper
61	100		
96	63.2	45.7	68.5
63	0.0	25.0	37.4#

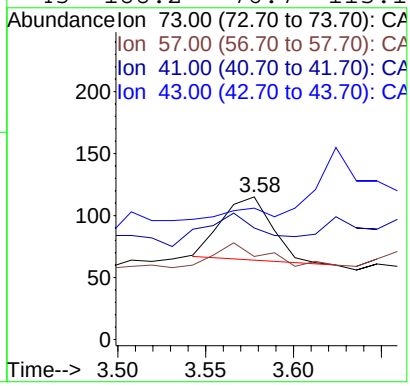


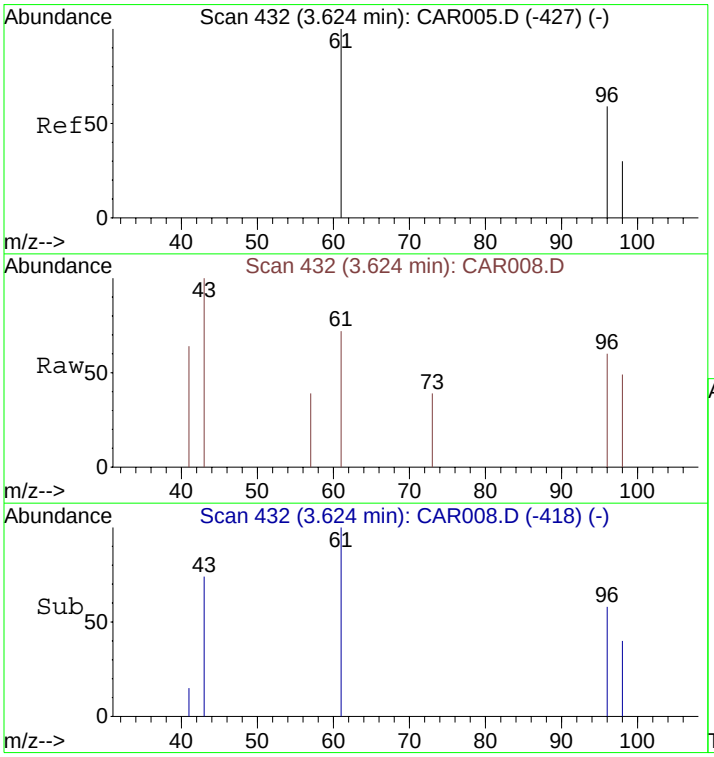


#4
Methyl tert-Butyl Ether (MTBE)
Concen: 0.34 ppbv m
RT: 3.58 min Scan# 428
Delta R.T. 0.09 min
Lab File: CAR008.D
Acq: 15 Sep 2008 16:08

Tgt Ion: 73 Resp: 102

Ion	Ratio	Lower	Upper
73	100		
57	358.8	32.6	49.0#
41	0.0	139.4	209.2#
43	188.2	76.7	115.1#

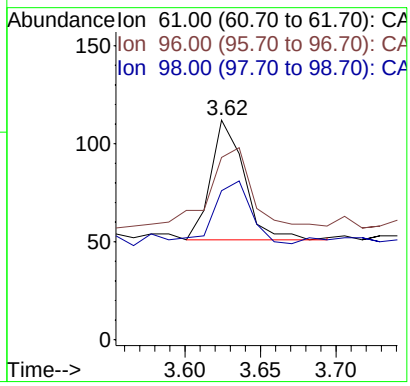


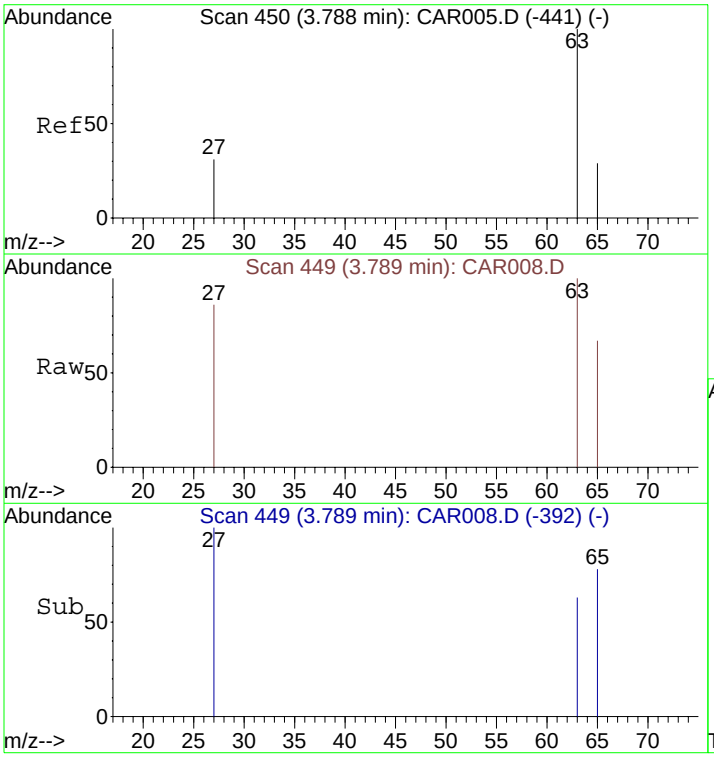


#5
trans-1,2-Dichloroethene
Concen: 0.51 ppbv
RT: 3.62 min Scan# 432
Delta R.T. -0.03 min
Lab File: CAR008.D
Acq: 15 Sep 2008 16:08

Tgt Ion: 61 Resp: 94

Ion	Ratio	Lower	Upper
61	100		
96	77.7	55.0	82.4
98	86.2	35.6	53.4#

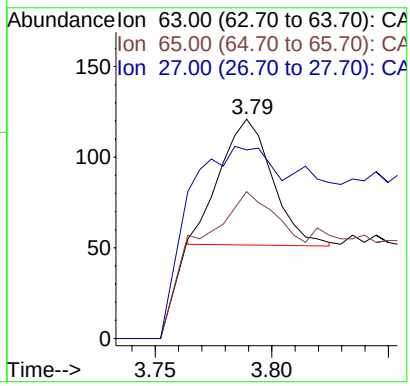


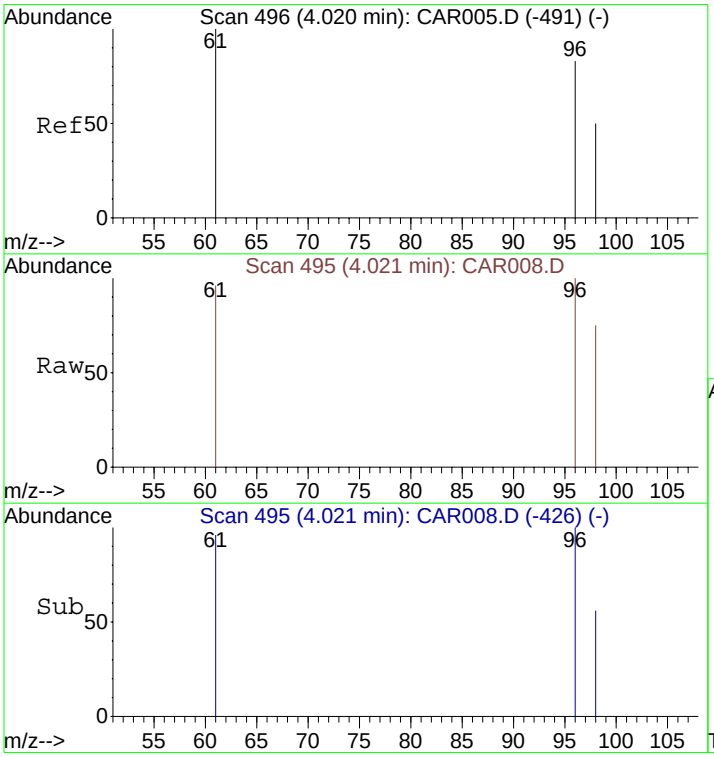


#6
1,1-Dichloroethane
Concen: 0.46 ppbv m
RT: 3.79 min Scan# 449
Delta R.T. -0.03 min
Lab File: CAR008.D
Acq: 15 Sep 2008 16:08

Tgt Ion: 63 Resp: 110

Ion	Ratio	Lower	Upper
63	100		
65	237.3	23.5	35.3#
27	300.9	26.7	40.1#

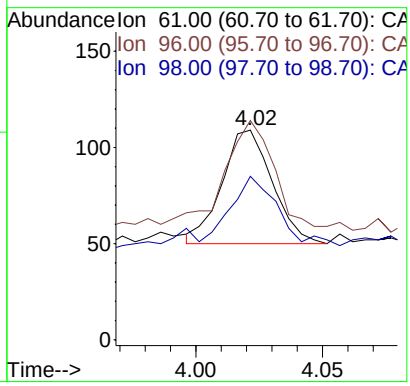


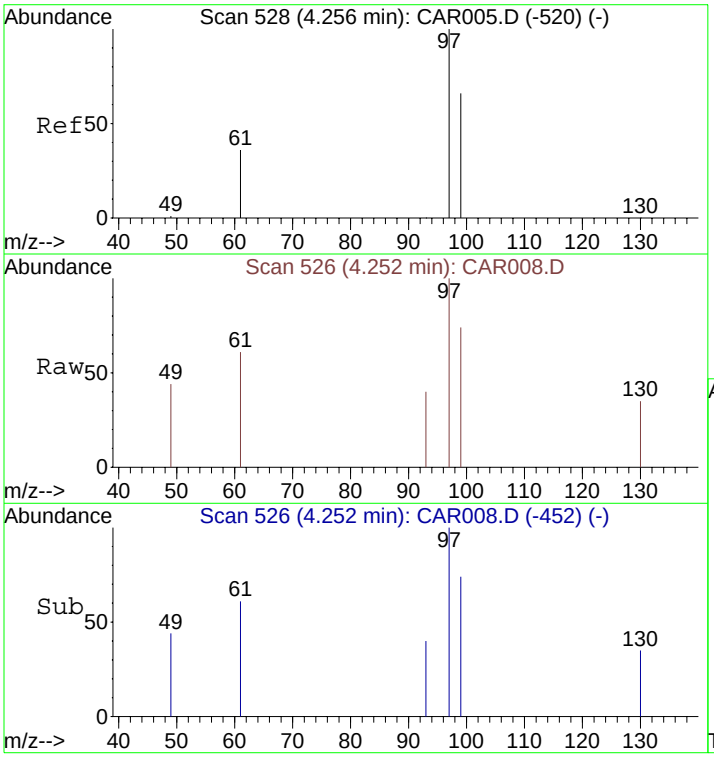


#7
cis-1,2-Dichloroethene
Concen: 0.45 ppbv
RT: 4.02 min Scan# 495
Delta R.T. -0.03 min
Lab File: CAR008.D
Acq: 15 Sep 2008 16:08

Tgt Ion: 61 Resp: 82

Ion	Ratio	Lower	Upper
61	100		
96	86.6	56.0	84.0#
98	54.9	36.2	54.4#

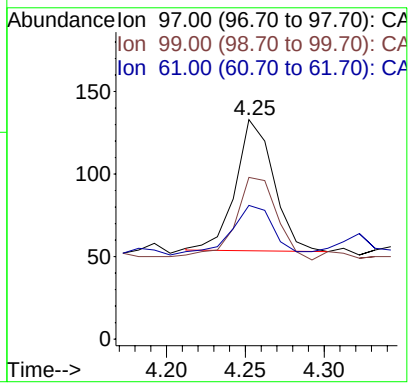


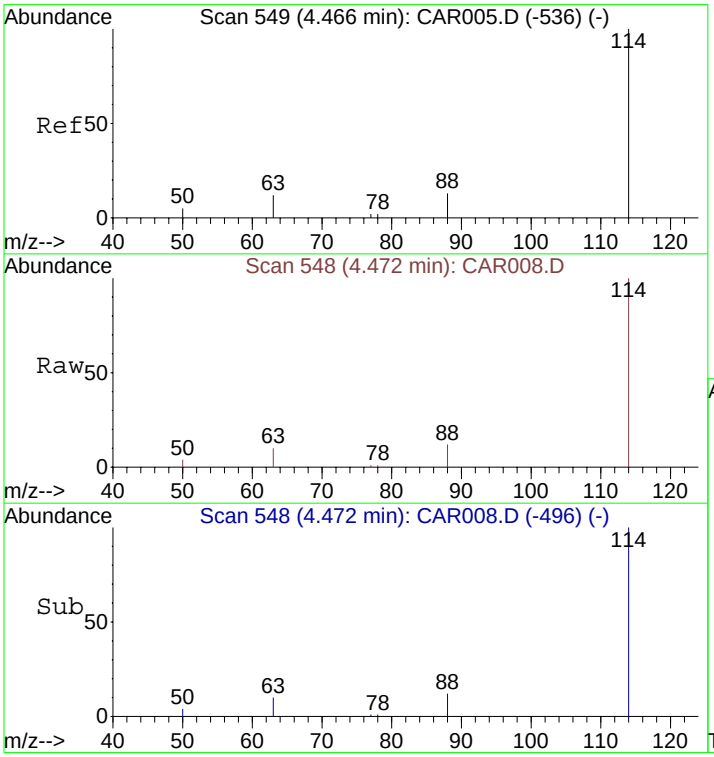


#8
1,1,1-Trichloroethane
Concen: 0.50 ppbv m
RT: 4.25 min Scan# 526
Delta R.T. -0.05 min
Lab File: CAR008.D
Acq: 15 Sep 2008 16:08

Tgt Ion: 97 Resp: 136

Ion	Ratio	Lower	Upper
97	100		
99	66.2	51.8	77.8
61	33.8	32.1	48.1

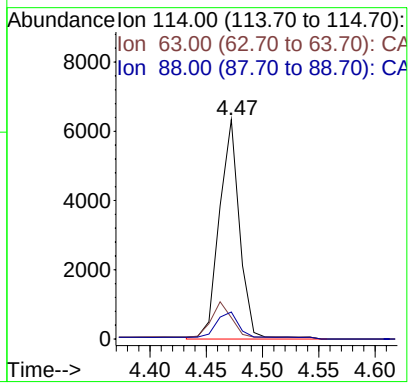


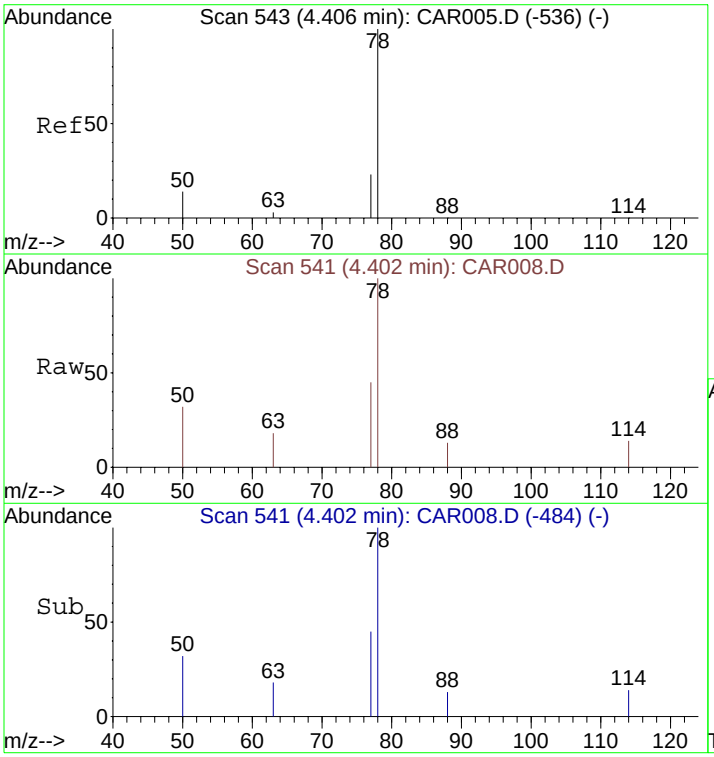


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 548
Delta R.T. -0.05 min
Lab File: CAR008.D
Acq: 15 Sep 2008 16:08

Tgt Ion:114 Resp: 7698

Ion	Ratio	Lower	Upper
114	100		
63	17.0	15.8	23.8
88	16.6	12.2	18.2

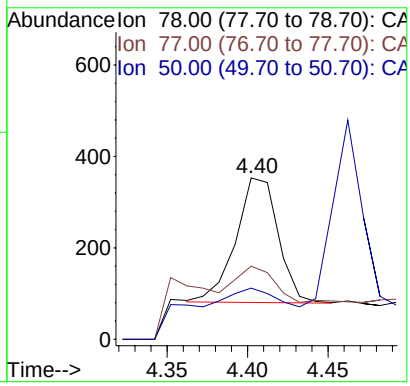


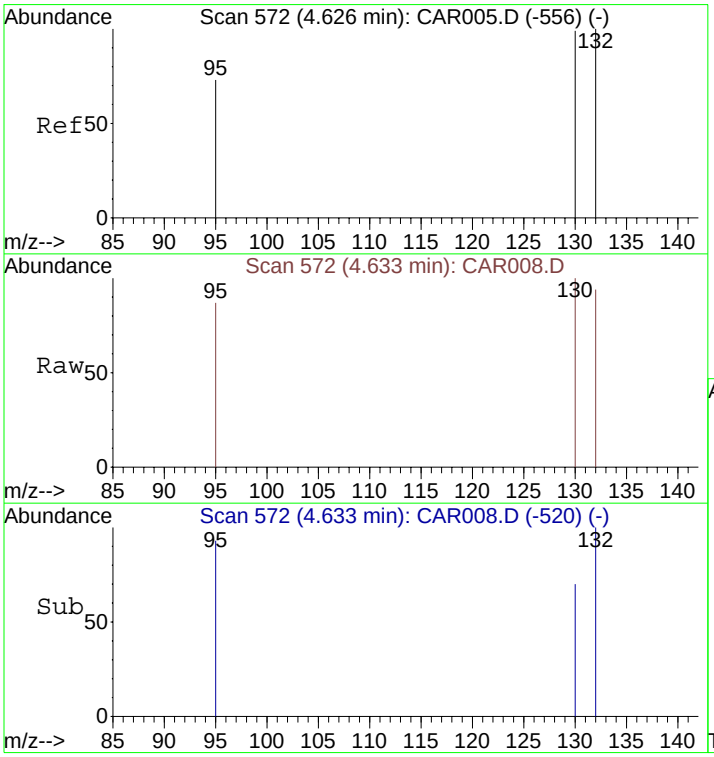


#10
Benzene
Concen: 1.07 ppbv m
RT: 4.40 min Scan# 541
Delta R.T. -0.06 min
Lab File: CAR008.D
Acq: 15 Sep 2008 16:08

Tgt Ion: 78 Resp: 502

Ion	Ratio	Lower	Upper
78	100		
77	17.5	18.6	28.0#
50	12.9	16.2	24.4#

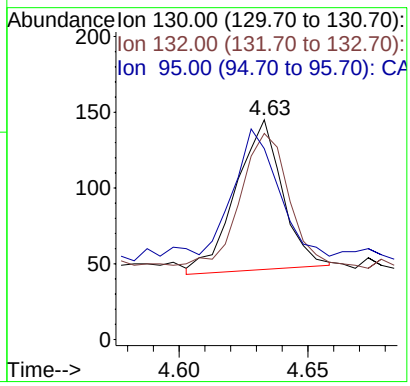


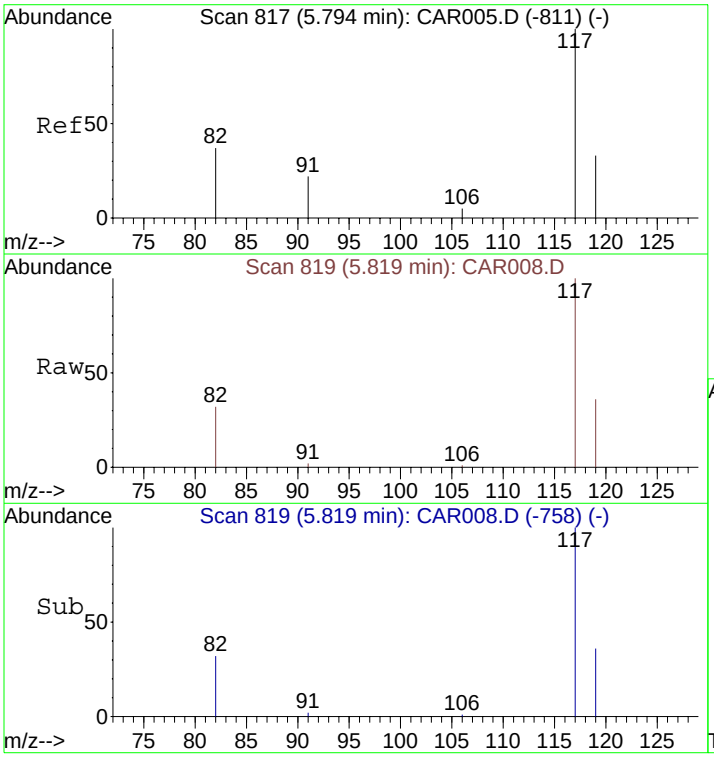


#11
Trichloroethene
Concen: 0.55 ppbv m
RT: 4.63 min Scan# 572
Delta R.T. -0.06 min
Lab File: CAR008.D
Acq: 15 Sep 2008 16:08

Tgt Ion:130 Resp: 125

Ion	Ratio	Lower	Upper
130	100		
132	92.0	73.8	110.6
95	80.0	72.5	108.7

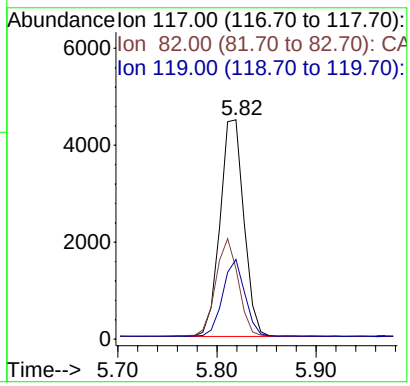


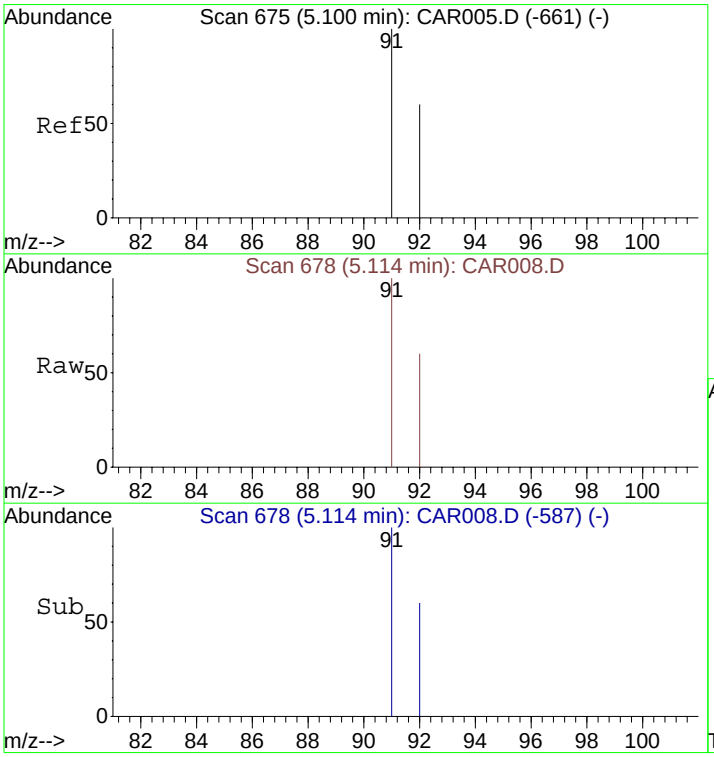


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.82 min Scan# 819
Delta R.T. -0.11 min
Lab File: CAR008.D
Acq: 15 Sep 2008 16:08

Tgt Ion:117 Resp: 7493

Ion	Ratio	Lower	Upper
117	100		
82	42.6	38.3	57.5
119	33.2	26.0	39.0

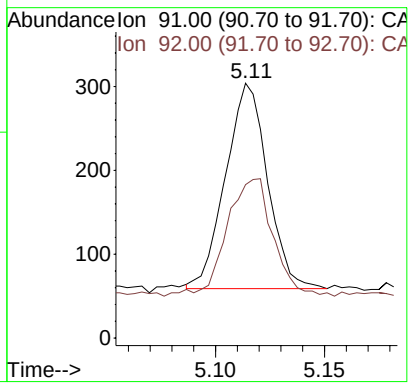


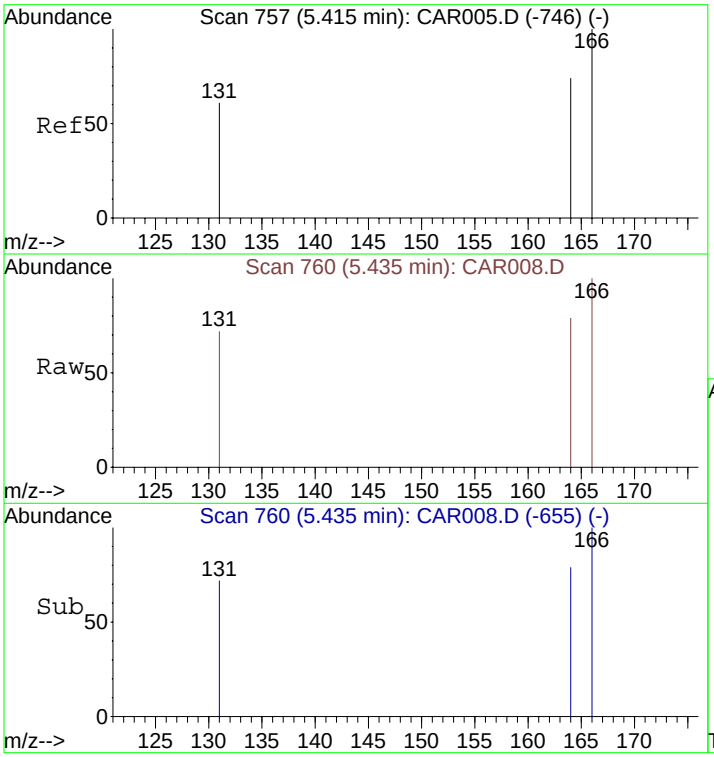


#13
Toluene
Concen: 0.72 ppbv
RT: 5.11 min Scan# 678
Delta R.T. -0.10 min
Lab File: CAR008.D
Acq: 15 Sep 2008 16:08

Tgt Ion: 91 Resp: 327

Ion	Ratio	Lower	Upper
91	100		
92	62.1	48.2	72.2

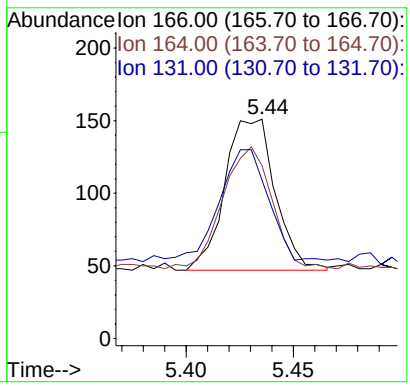


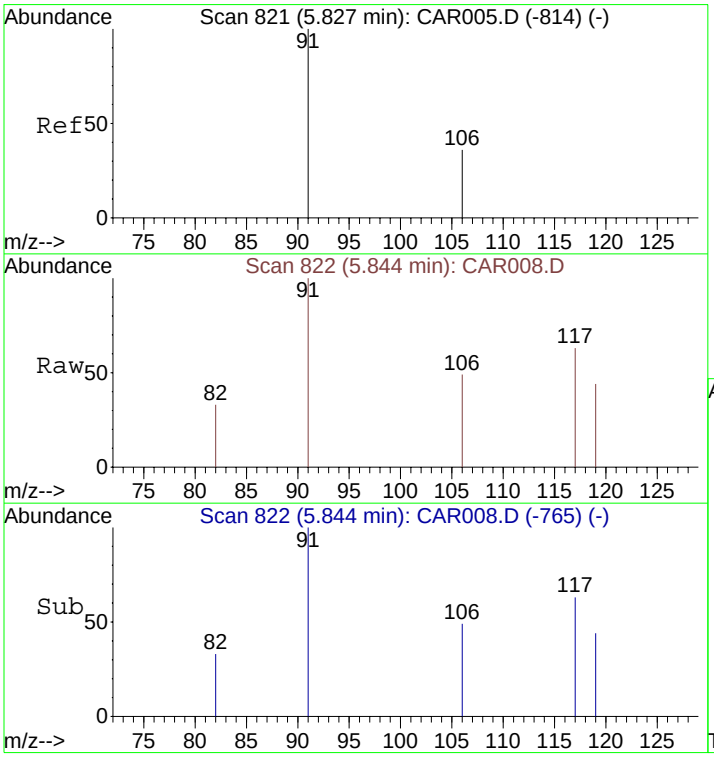


#14
Tetrachloroethene
Concen: 0.62 ppbv
RT: 5.44 min Scan# 760
Delta R.T. -0.10 min
Lab File: CAR008.D
Acq: 15 Sep 2008 16:08

Tgt Ion:166 Resp: 171

Ion	Ratio	Lower	Upper
166	100		
164	77.8	63.1	94.7
131	66.1	62.9	94.3

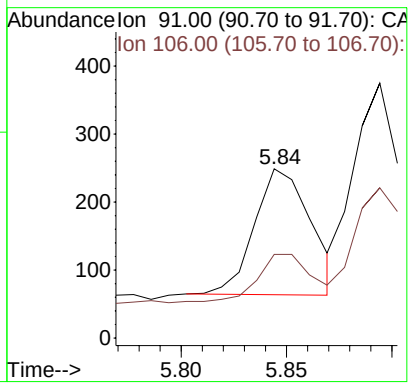


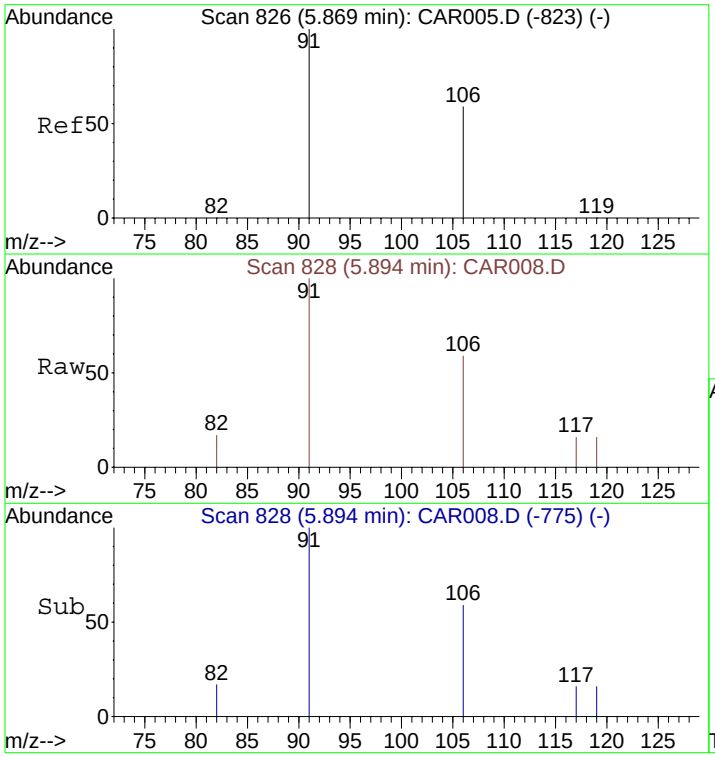


#15
Ethylbenzene
Concen: 0.65 ppbv
RT: 5.84 min Scan# 822
Delta R.T. -0.12 min
Lab File: CAR008.D
Acq: 15 Sep 2008 16:08

Tgt Ion: 91 Resp: 344

Ion	Ratio	Lower	Upper
91	100		
106	36.0	26.3	39.5

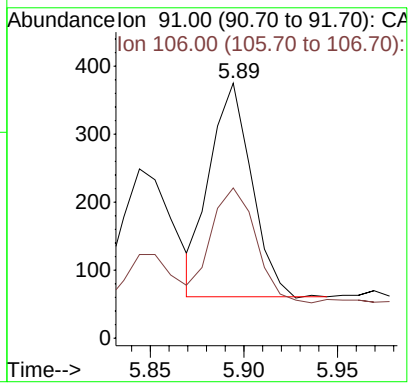


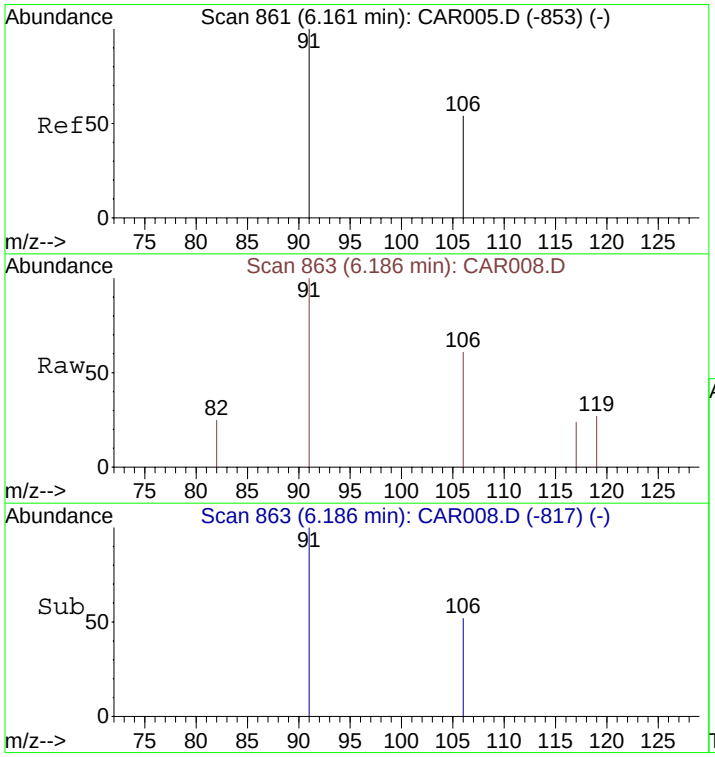


#16
m&p-Xylenes
Concen: 1.32 ppbv
RT: 5.89 min Scan# 828
Delta R.T. -0.12 min
Lab File: CAR008.D
Acq: 15 Sep 2008 16:08

Tgt Ion: 91 Resp: 489

Ion	Ratio	Lower	Upper
91	100		
106	57.7	41.8	62.8

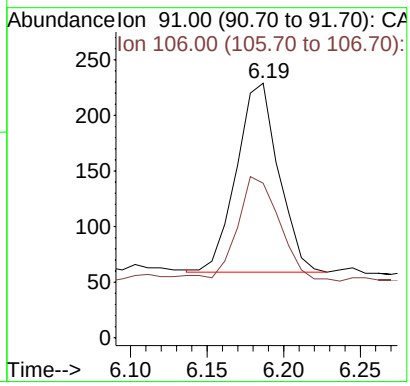




#17
o-Xylene
Concen: 0.77 ppbv
RT: 6.19 min Scan# 863
Delta R.T. -0.12 min
Lab File: CAR008.D
Acq: 15 Sep 2008 16:08

Tgt Ion: 91 Resp: 326

Ion	Ratio	Lower	Upper
91	100		
106	56.1	38.9	58.3



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\20080915\CAR010.D Vial: 1
Acq On : 15 Sep 2008 16:52 Operator: dlm
Sample : STD20080915-ICV Inst : Instrumen
Misc : 500 ppbv 2nd source std. Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Wed Nov 05 16:35:43 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Bromochloromethane	10.000	10.000	0.0	95	0.00
2	Vinyl Chloride	500.000	526.501	-5.3	106	0.00
3	1,1-Dichloroethene	500.000	559.678	-11.9	106	0.00
4	Methyl tert-Butyl Ether (MT	500.000	327.744	34.5#	60	0.00
5	trans-1,2-Dichloroethene	500.000	550.667	-10.1	106	0.00
6	1,1-Dichloroethane	500.000	576.288	-15.3	102	0.00
7	cis-1,2-Dichloroethene	500.000	624.747	-24.9	128	0.00
8	1,1,1-Trichloroethane	500.000	563.363	-12.7	104	0.00
9	1,4-Difluorobenzene	10.000	10.000	0.0	88	0.00
10	Benzene	500.000	388.053	22.4	100	0.00
11	Trichloroethene	500.000	515.394	-3.1	96	0.00
12	Chlorobenzene-d5	10.000	10.000	0.0	63	0.00
13	Toluene	500.000	502.569	-0.5	92	0.00
14	Tetrachloroethene	500.000	573.538	-14.7	104	-0.01
15	Ethylbenzene	500.000	416.884	16.6	75	0.00
16	m&p-Xylenes	1000.000	893.251	10.7	73	0.00
17	o-Xylene	500.000	362.424	27.5	68	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080915\CAR010.D Vial: 1
Acq On : 15 Sep 2008 16:52 Operator: dlm
Sample : STD20080915-ICV Inst : Instrumen
Misc : 500 ppbv 2nd source std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 14:00:03 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Mon Sep 15 13:24:07 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	2200	10.00 ppbv	-0.04
9) 1,4-Difluorobenzene	4.47	114	8595	10.00 ppbv	-0.06
12) Chlorobenzene-d5	5.79	117	7901	10.00 ppbv	-0.14

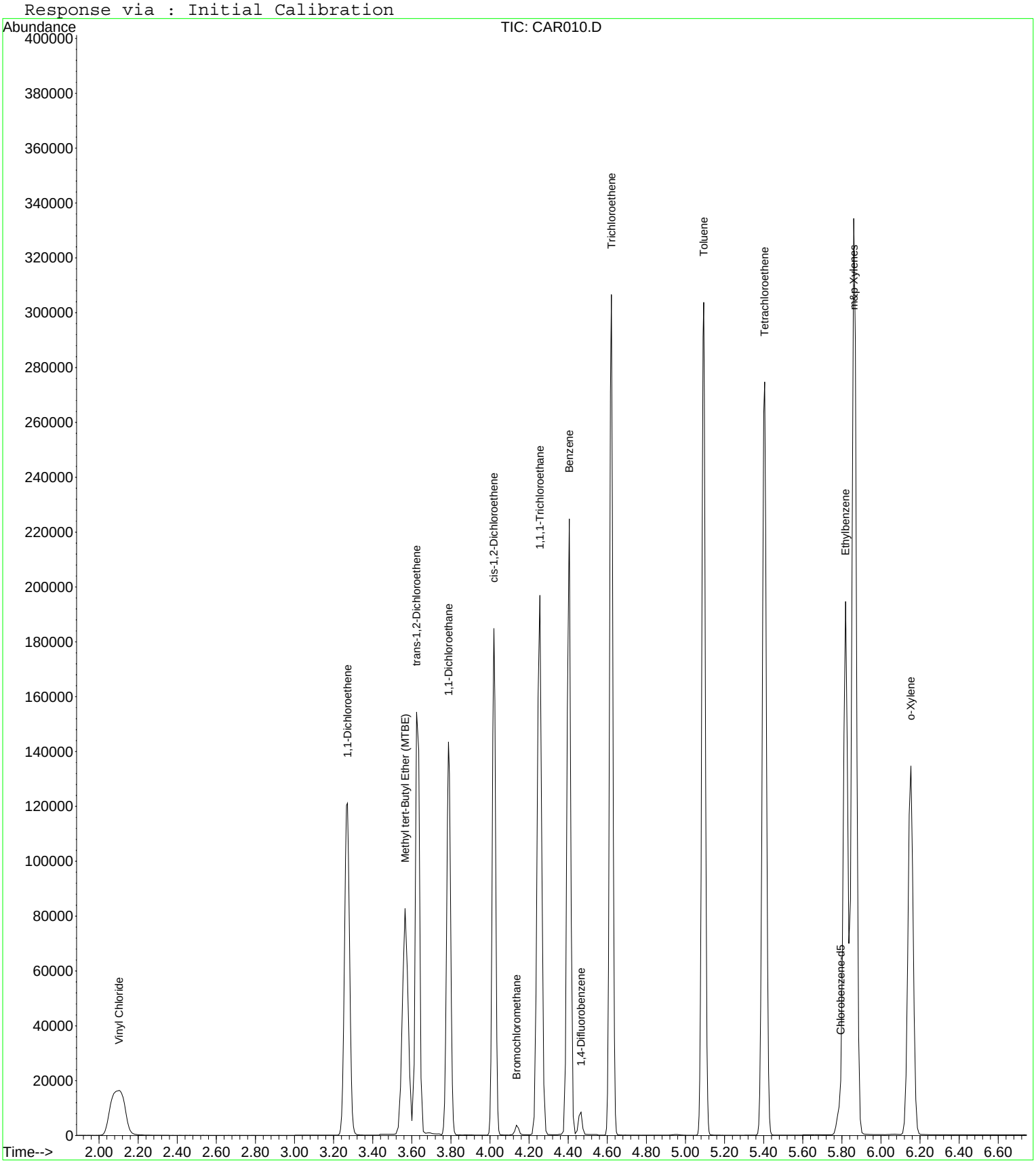
Target Compounds					Qvalue
2) Vinyl Chloride	2.10	62	66217	526.50 ppbv #	51
3) 1,1-Dichloroethene	3.27	61	110049	559.68 ppbv	90
4) Methyl tert-Butyl Ether (M	3.57	73	97597	327.74 ppbv #	13
5) trans-1,2-Dichloroethene	3.62	61	101787	550.67 ppbv	88
6) 1,1-Dichloroethane	3.79	63	139927	576.29 ppbv	96
7) cis-1,2-Dichloroethene	4.02	61	115468	624.75 ppbv	99
8) 1,1,1-Trichloroethane	4.26	97	154706	563.36 ppbv	100
10) Benzene	4.41	78	202842	388.05 ppbv	96
11) Trichloroethene	4.62	130	131178	515.39 ppbv	92
13) Toluene	5.09	91	241156	502.57 ppbv	100
14) Tetrachloroethene	5.40	166	165522	573.54 ppbv	94
15) Ethylbenzene	5.82	91	231560	416.88 ppbv	95
16) m&p-Xylenes	5.86	91	350080	893.25 ppbv	92
17) o-Xylene	6.15	91	162512	362.42 ppbv	92

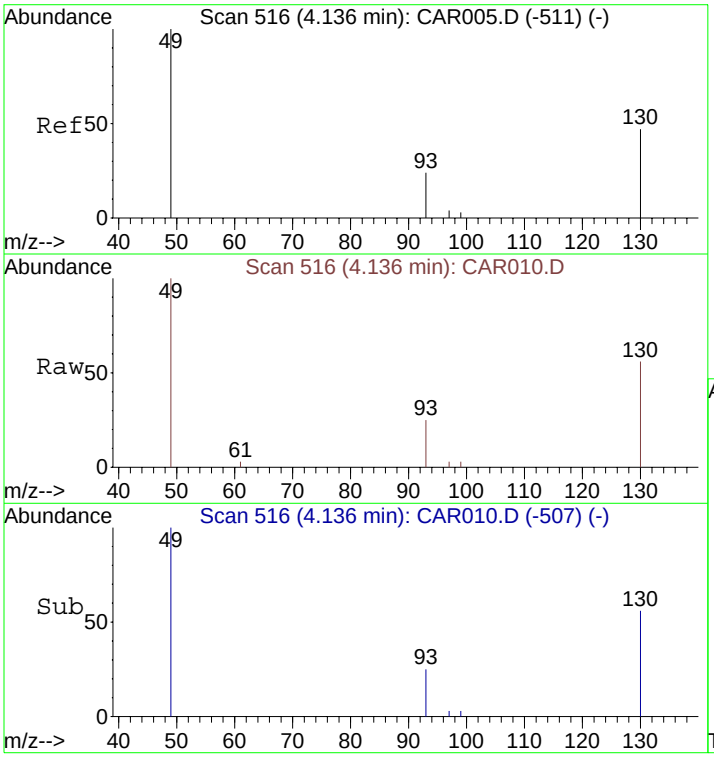
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080915\CAR010.D Vial: 1
Acq On : 15 Sep 2008 16:52 Operator: dlm
Sample : STD20080915-ICV Inst : Instrumen
Misc : 500 ppbv 2nd source std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 15 16:00 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Wed Nov 05 16:35:43 2008
Response via : Initial Calibration

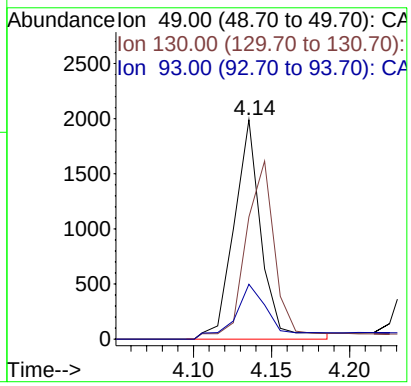


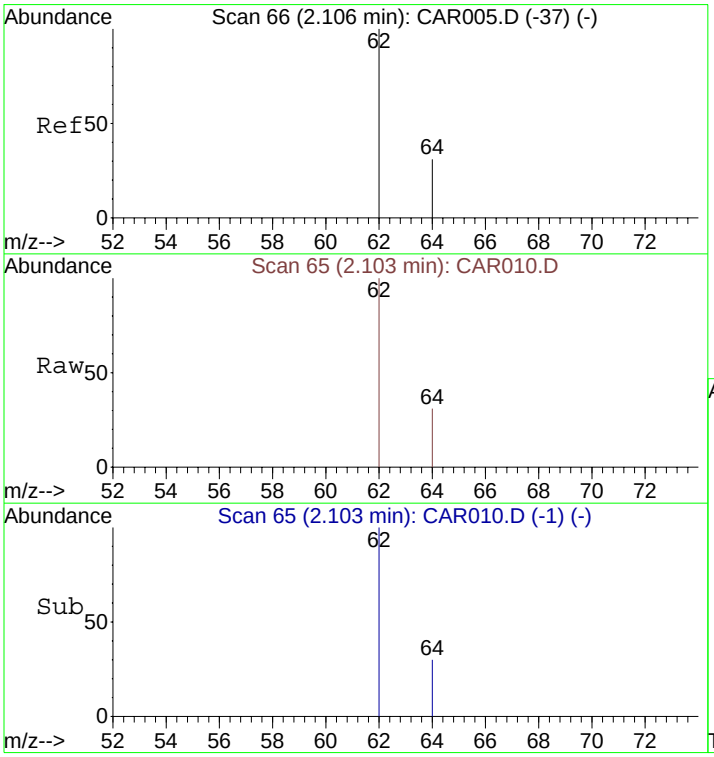


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. -0.04 min
Lab File: CAR010.D
Acq: 15 Sep 2008 16:52

Tgt Ion: 49 Resp: 2200

Ion	Ratio	Lower	Upper
49	100		
130	94.5	65.1	97.7
93	34.6	33.8	50.6

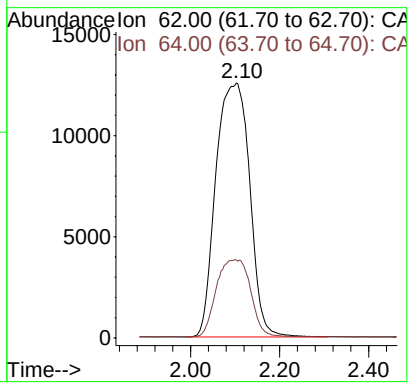


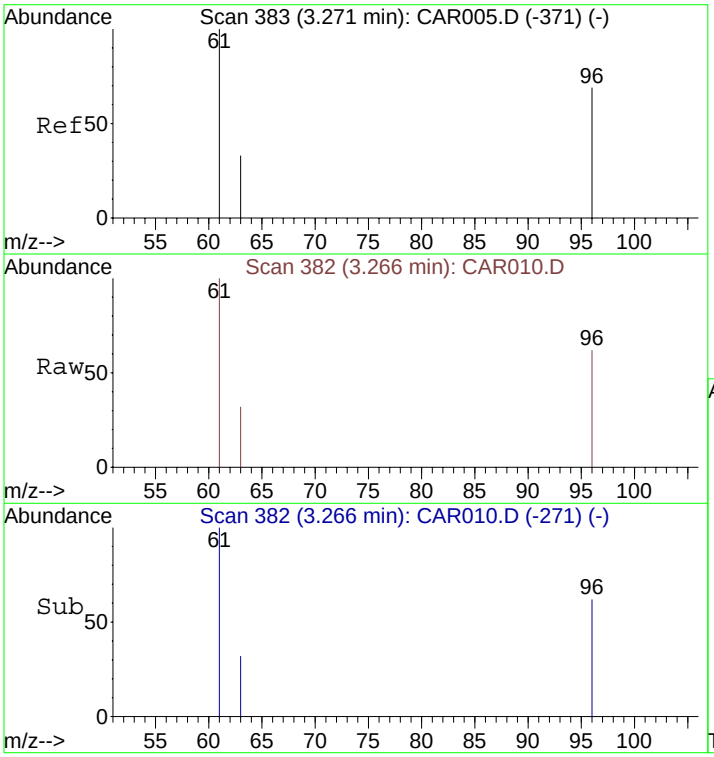


#2
Vinyl Chloride
Concen: 526.50 ppbv
RT: 2.10 min Scan# 65
Delta R.T. -0.18 min
Lab File: CAR010.D
Acq: 15 Sep 2008 16:52

Tgt Ion: 62 Resp: 66217

Ion	Ratio	Lower	Upper
62	100		
64	30.6	9.4	14.2#

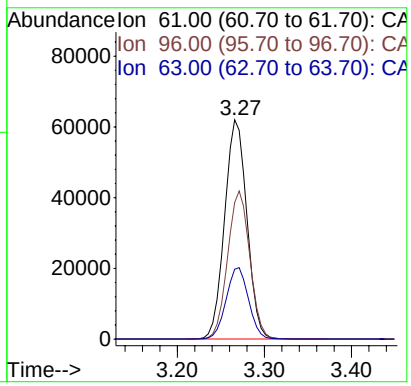


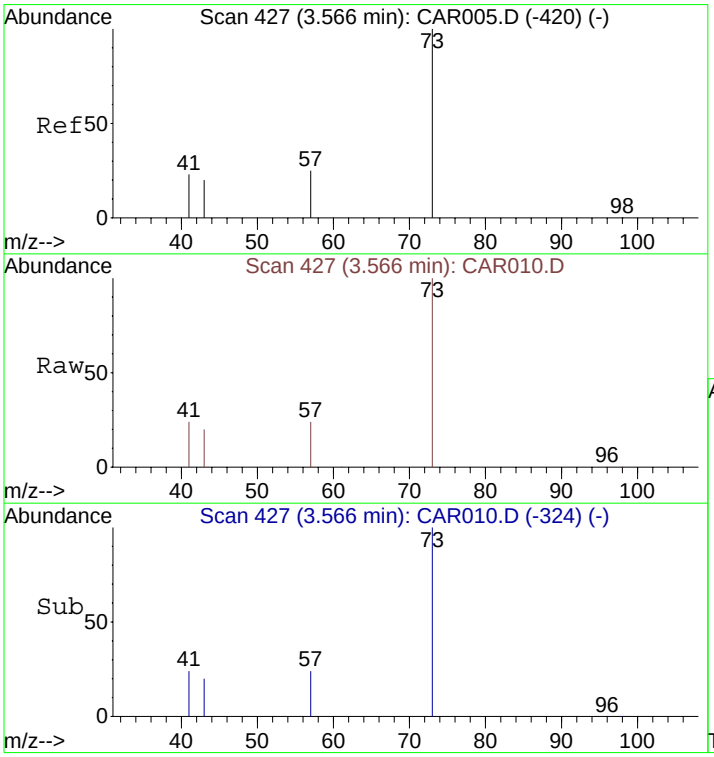


#3
1,1-Dichloroethene
Concen: 559.68 ppbv
RT: 3.27 min Scan# 382
Delta R.T. -0.04 min
Lab File: CAR010.D
Acq: 15 Sep 2008 16:52

Tgt Ion: 61 Resp: 110049

Ion	Ratio	Lower	Upper
61	100		
96	67.0	45.7	68.5
63	32.6	25.0	37.4

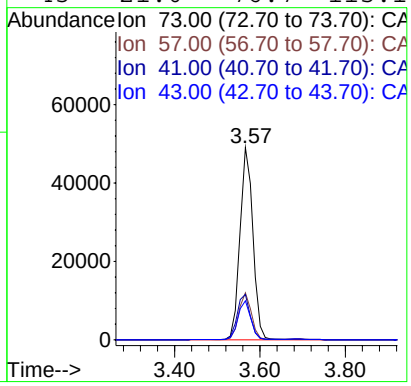


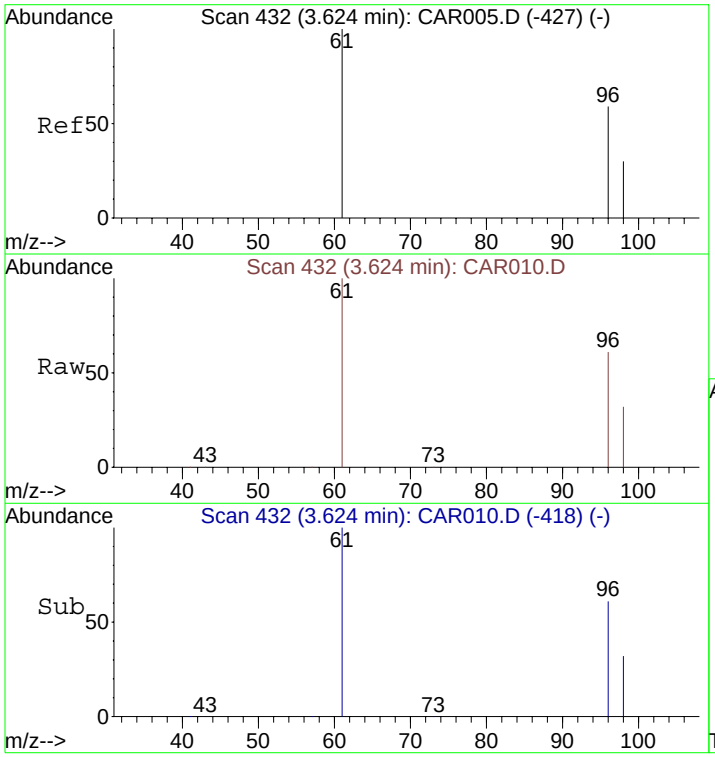


#4
Methyl tert-Butyl Ether (MTBE)
Concen: 327.74 ppbv
RT: 3.57 min Scan# 427
Delta R.T. 0.08 min
Lab File: CAR010.D
Acq: 15 Sep 2008 16:52

Tgt Ion: 73 Resp: 97597

Ion	Ratio	Lower	Upper
73	100		
57	25.1	32.6	49.0#
41	25.1	139.4	209.2#
43	21.0	76.7	115.1#

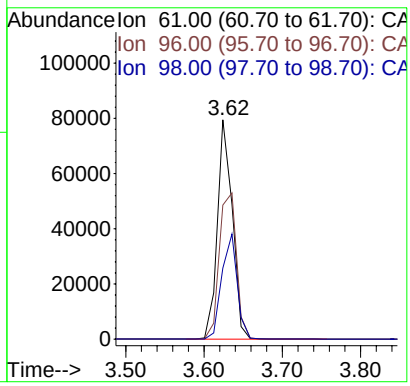


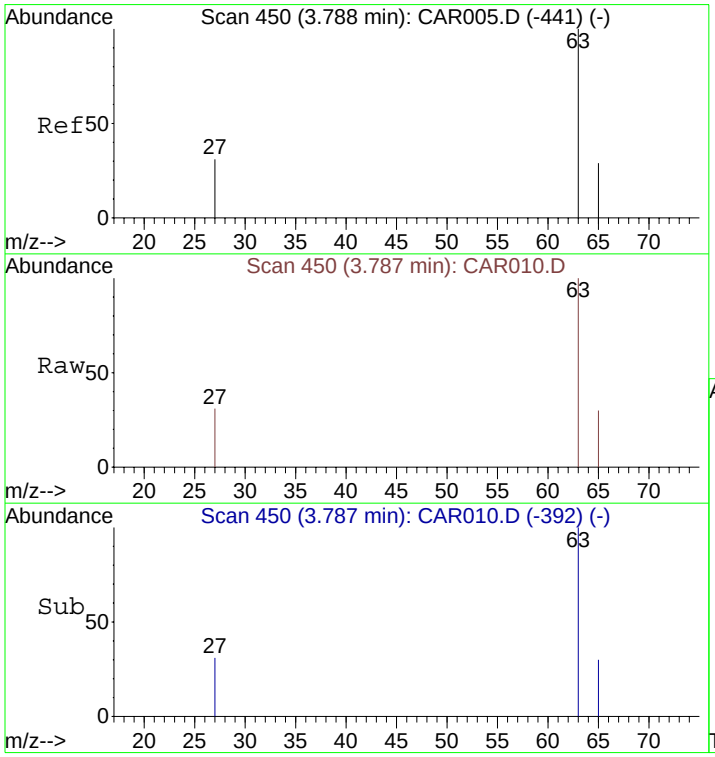


#5
trans-1,2-Dichloroethene
Concen: 550.67 ppbv
RT: 3.62 min Scan# 432
Delta R.T. -0.04 min
Lab File: CAR010.D
Acq: 15 Sep 2008 16:52

Tgt Ion: 61 Resp: 101787

Ion	Ratio	Lower	Upper
61	100		
96	79.5	55.0	82.4
98	50.9	35.6	53.4

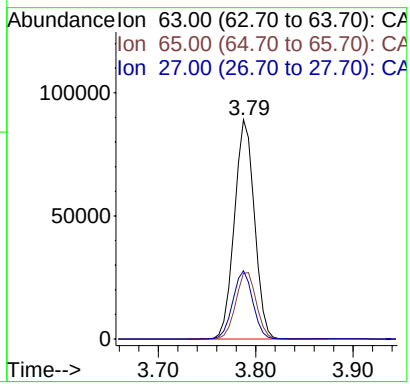


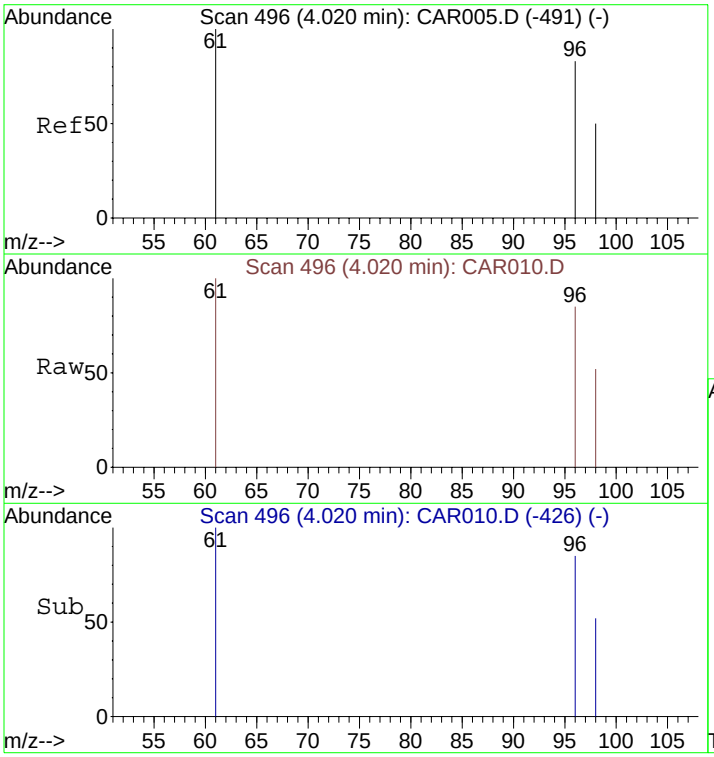


#6
1,1-Dichloroethane
Concen: 576.29 ppbv
RT: 3.79 min Scan# 450
Delta R.T. -0.03 min
Lab File: CAR010.D
Acq: 15 Sep 2008 16:52

Tgt Ion: 63 Resp: 139927

Ion	Ratio	Lower	Upper
63	100		
65	31.9	23.5	35.3
27	32.0	26.7	40.1

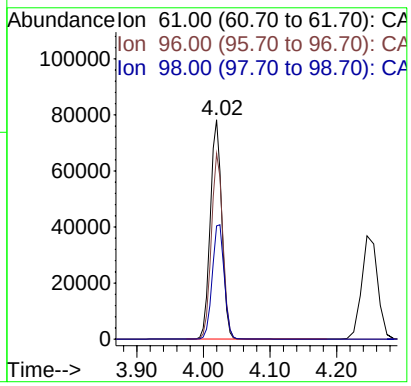


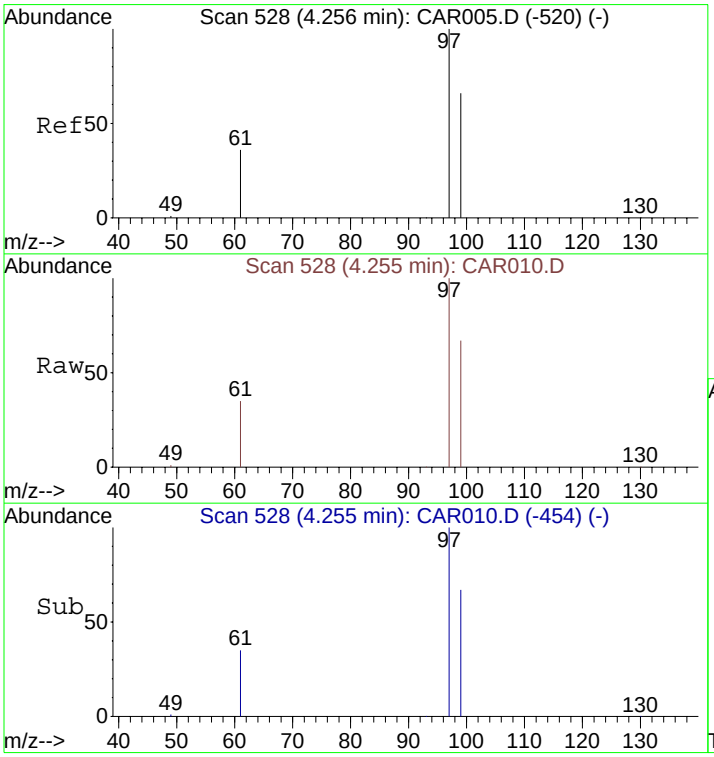


#7
cis-1,2-Dichloroethene
Concen: 624.75 ppbv
RT: 4.02 min Scan# 496
Delta R.T. -0.04 min
Lab File: CAR010.D
Acq: 15 Sep 2008 16:52

Tgt Ion: 61 Resp: 115468

Ion	Ratio	Lower	Upper
61	100		
96	71.5	56.0	84.0
98	46.0	36.2	54.4

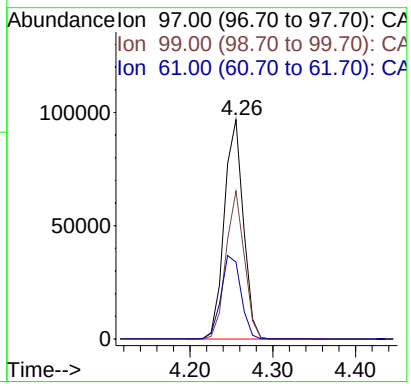


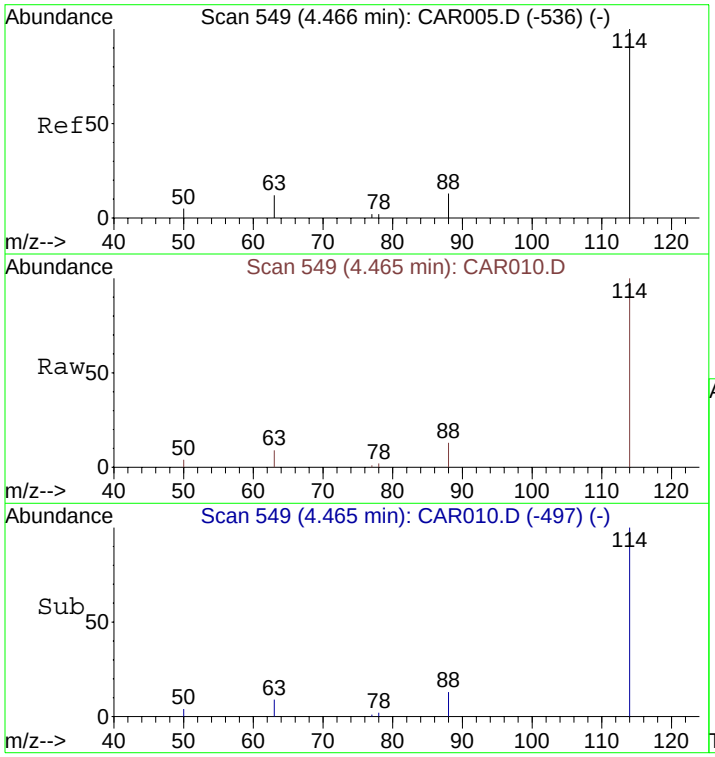


#8
1,1,1-Trichloroethane
Concen: 563.36 ppbv
RT: 4.26 min Scan# 528
Delta R.T. -0.05 min
Lab File: CAR010.D
Acq: 15 Sep 2008 16:52

Tgt Ion: 97 Resp: 154706

Ion	Ratio	Lower	Upper
97	100		
99	65.1	51.8	77.8
61	40.2	32.1	48.1

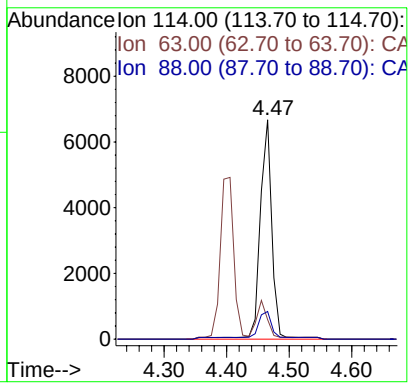


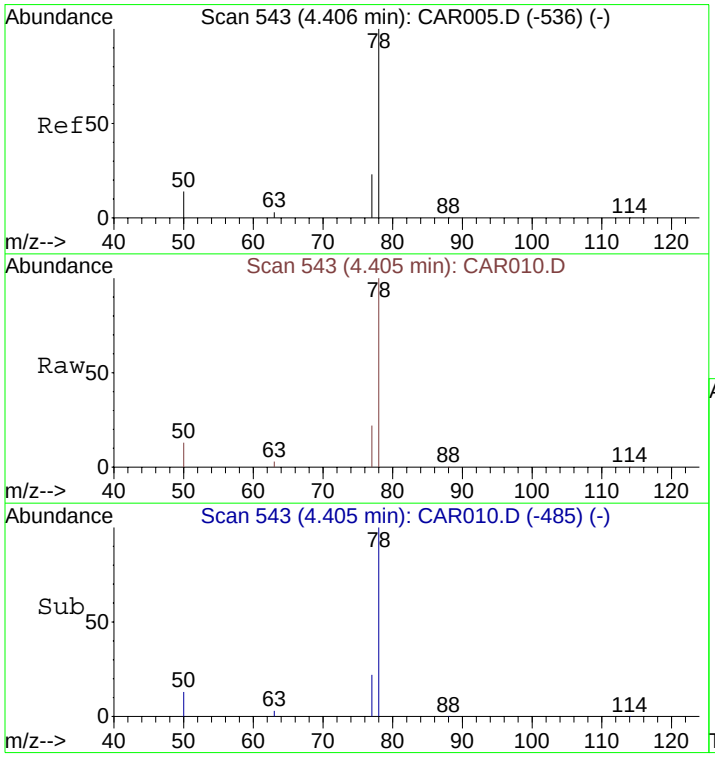


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. -0.06 min
Lab File: CAR010.D
Acq: 15 Sep 2008 16:52

Tgt Ion:114 Resp: 8595

Ion	Ratio	Lower	Upper
114	100		
63	15.8	15.8	23.8#
88	13.4	12.2	18.2

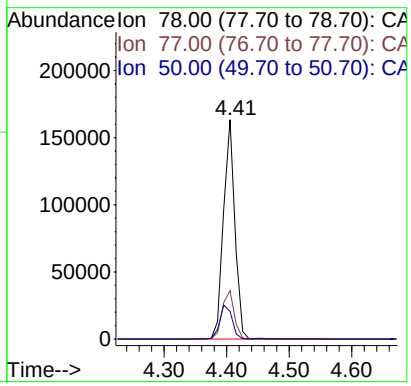


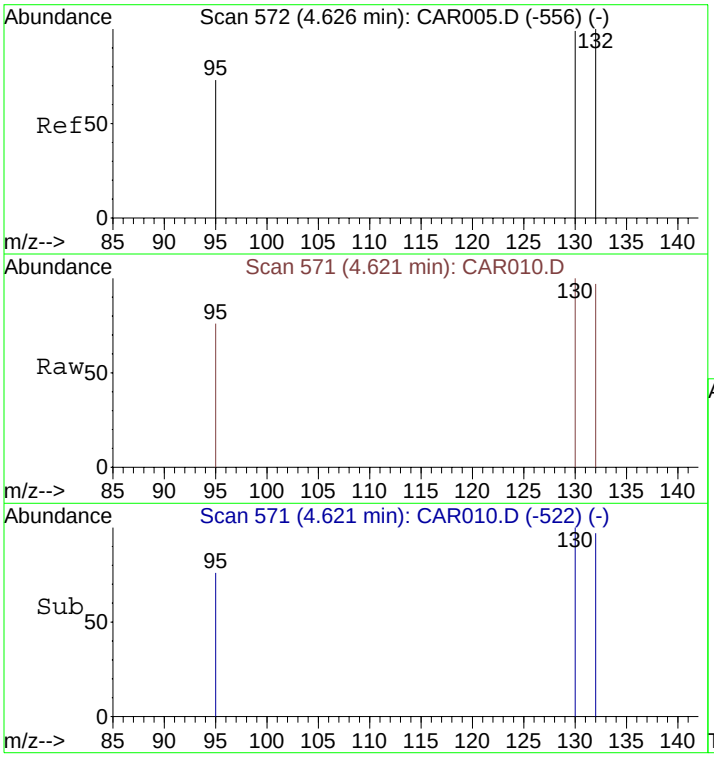


#10
Benzene
Concen: 388.05 ppbv
RT: 4.41 min Scan# 543
Delta R.T. -0.06 min
Lab File: CAR010.D
Acq: 15 Sep 2008 16:52

Tgt Ion: 78 Resp: 202842

Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.6	28.0
50	17.0	16.2	24.4

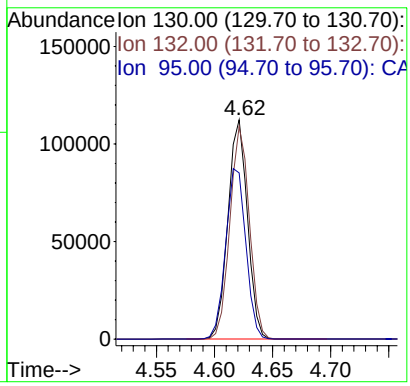


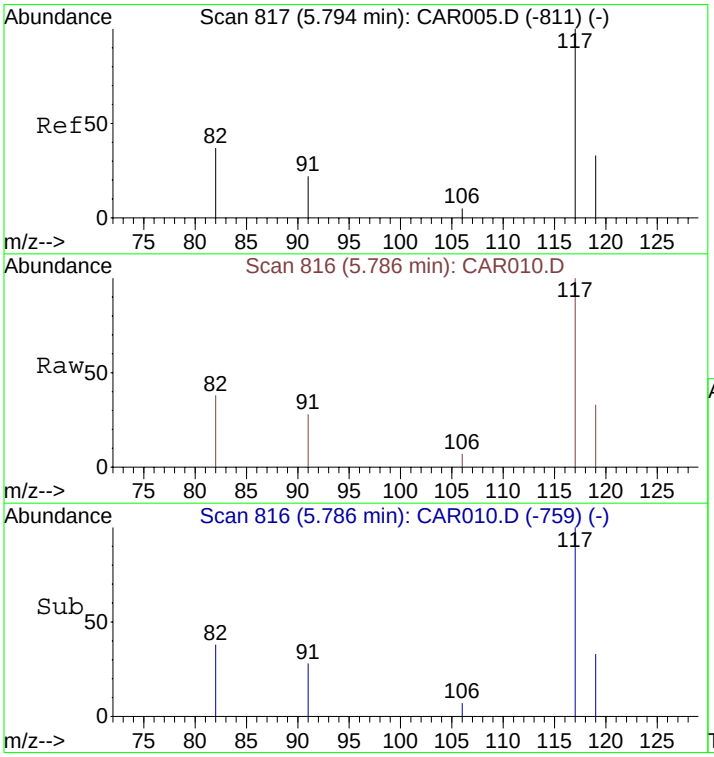


#11
Trichloroethene
Concen: 515.39 ppbv
RT: 4.62 min Scan# 571
Delta R.T. -0.08 min
Lab File: CAR010.D
Acq: 15 Sep 2008 16:52

Tgt Ion:130 Resp: 131178

Ion	Ratio	Lower	Upper
130	100		
132	96.5	73.8	110.6
95	80.4	72.5	108.7

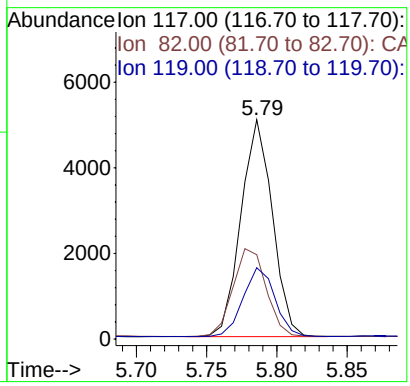


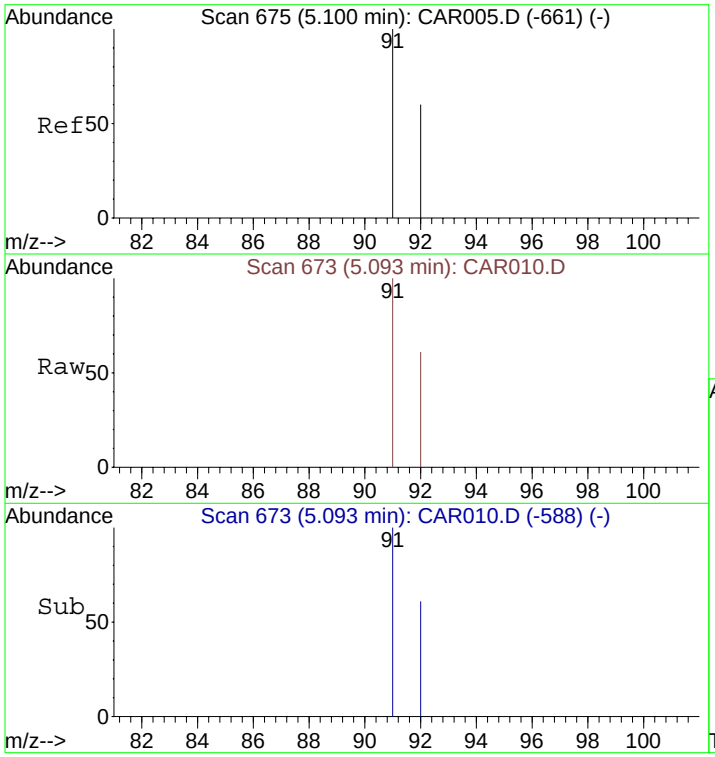


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.79 min Scan# 816
Delta R.T. -0.14 min
Lab File: CAR010.D
Acq: 15 Sep 2008 16:52

Tgt Ion:117 Resp: 7901

Ion	Ratio	Lower	Upper
117	100		
82	44.3	38.3	57.5
119	32.4	26.0	39.0

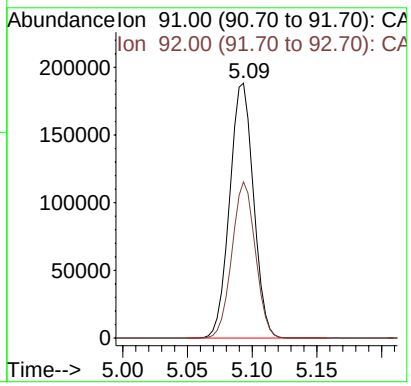


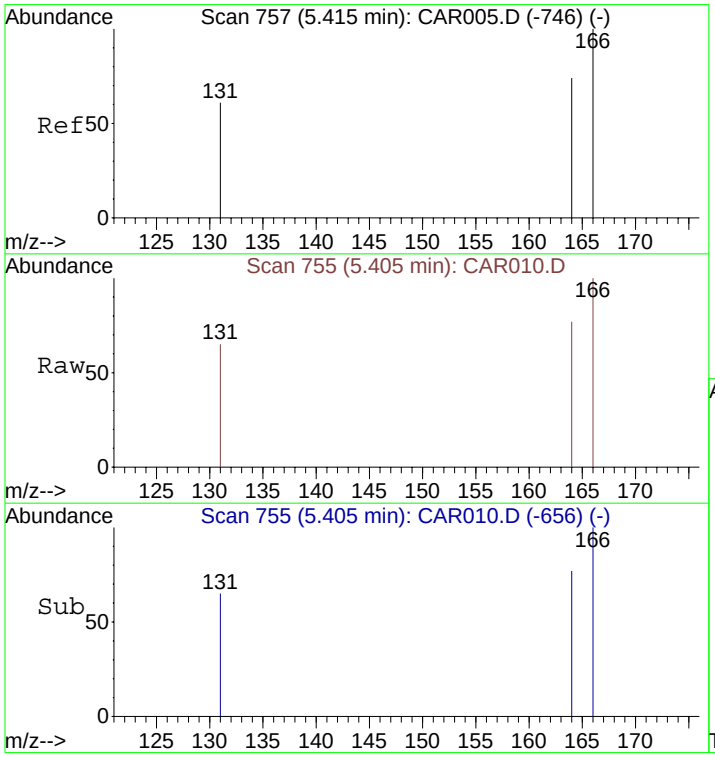


#13
Toluene
Concen: 502.57 ppbv
RT: 5.09 min Scan# 673
Delta R.T. -0.12 min
Lab File: CAR010.D
Acq: 15 Sep 2008 16:52

Tgt Ion: 91 Resp: 241156

Ion	Ratio	Lower	Upper
91	100		
92	60.1	48.2	72.2

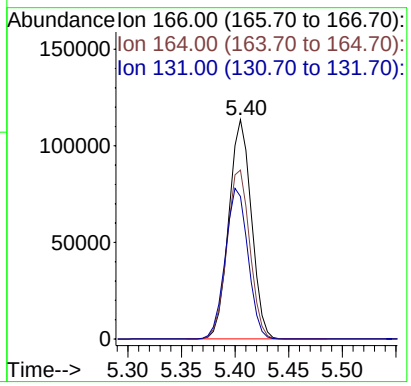


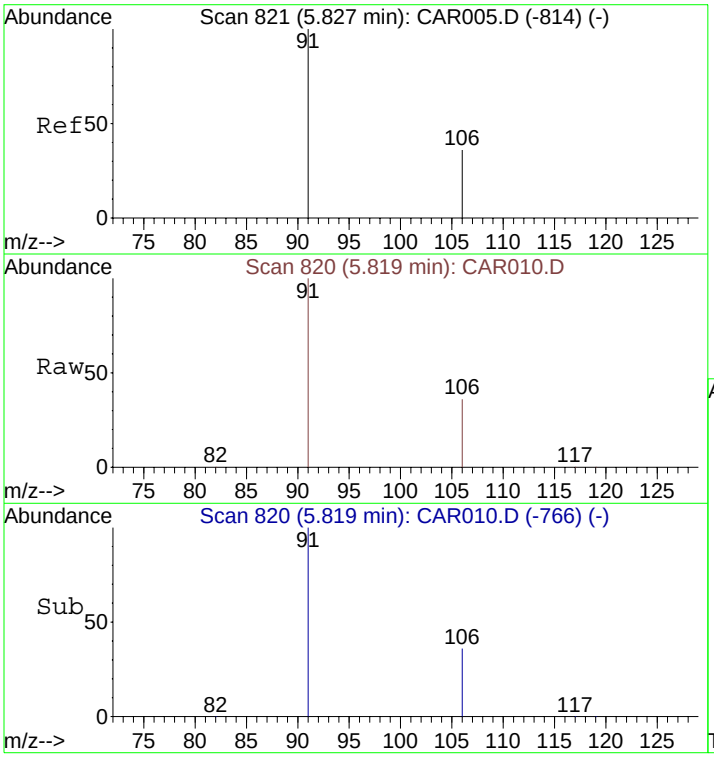


#14
Tetrachloroethene
Concen: 573.54 ppbv
RT: 5.40 min Scan# 755
Delta R.T. -0.13 min
Lab File: CAR010.D
Acq: 15 Sep 2008 16:52

Tgt Ion:166 Resp: 165522

Ion	Ratio	Lower	Upper
166	100		
164	78.5	63.1	94.7
131	69.3	62.9	94.3

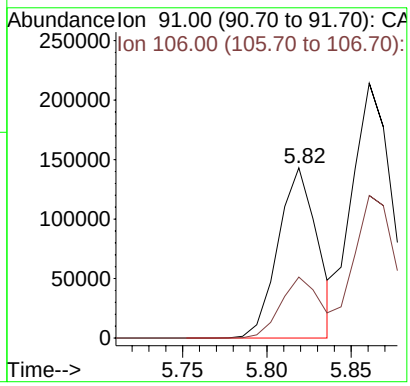


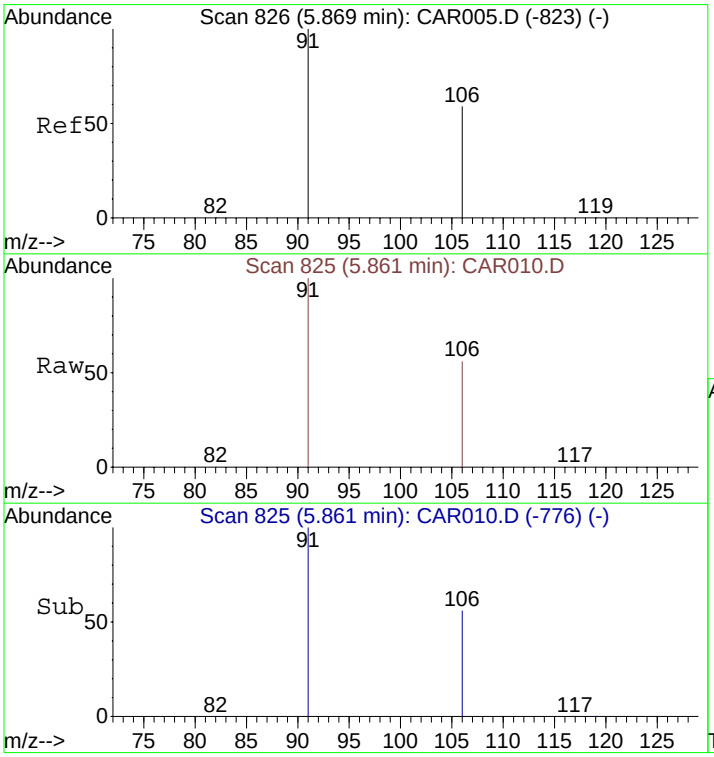


#15
Ethylbenzene
Concen: 416.88 ppbv
RT: 5.82 min Scan# 820
Delta R.T. -0.14 min
Lab File: CAR010.D
Acq: 15 Sep 2008 16:52

Tgt Ion: 91 Resp: 231560

Ion	Ratio	Lower	Upper
91	100		
106	35.5	26.3	39.5

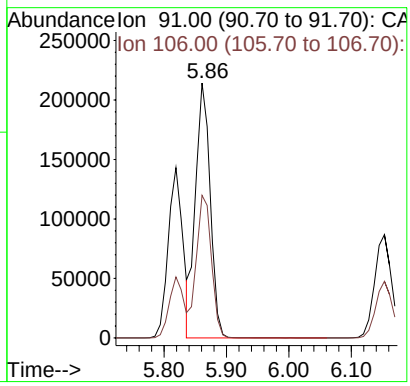


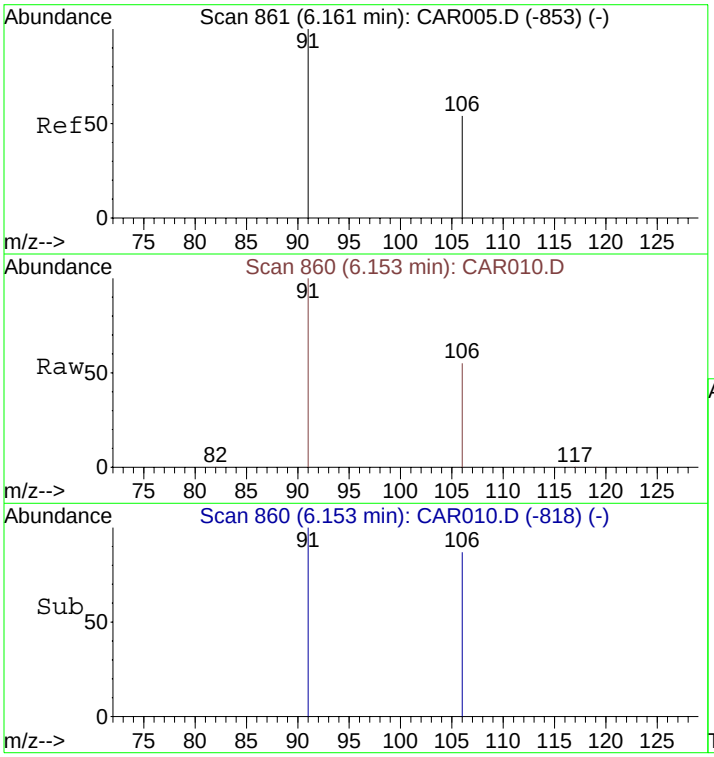


#16
m&p-Xylenes
Concen: 893.25 ppbv
RT: 5.86 min Scan# 825
Delta R.T. -0.15 min
Lab File: CAR010.D
Acq: 15 Sep 2008 16:52

Tgt Ion: 91 Resp: 350080

Ion	Ratio	Lower	Upper
91	100		
106	57.7	41.8	62.8

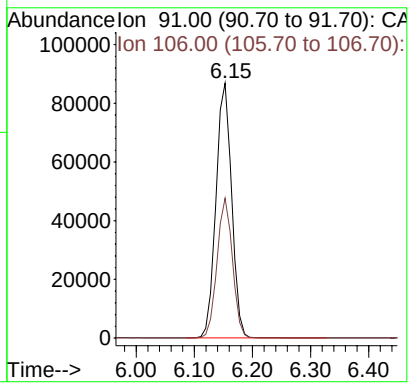




#17
o-Xylene
Concen: 362.42 ppbv
RT: 6.15 min Scan# 860
Delta R.T. -0.15 min
Lab File: CAR010.D
Acq: 15 Sep 2008 16:52

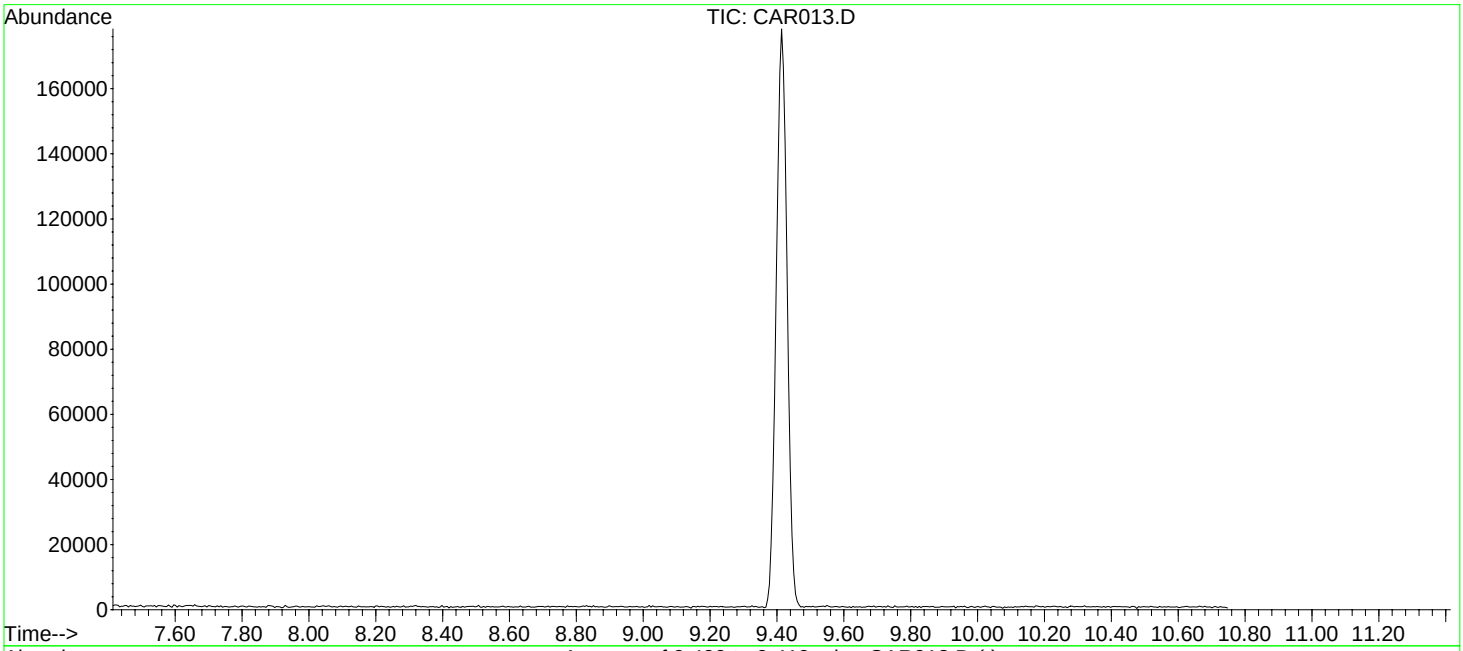
Tgt Ion: 91 Resp: 162512

Ion	Ratio	Lower	Upper
91	100		
106	53.9	38.9	58.3



BFB

Data File : C:\MSDCHEM\1\DATA\20080916\CAR013.D Vial: 1
Acq On : 16 Sep 2008 6:21 Operator: dlm
Sample : BFB Inst : Instrumen
Misc : 5 ml BFB @ 1 ppmv Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC



AutoFind: Scans 1023, 1024, 1025; Background Corrected with Scan 1013

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.7	6787	PASS
75	95	30	66	44.1	16013	PASS
95	95	100	100	100.0	36330	PASS
96	95	5	9	6.5	2375	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	88.5	32152	PASS
175	174	4	9	7.2	2319	PASS
176	174	93	101	100.2	32229	PASS
177	176	5	9	6.4	2065	PASS

CAR013.D LOOP20080915.M Tue Sep 30 10:36:07 2008

GC/MS QA-QC Check Report

Tune File: C:\MSDCHEM\1\DATA\20080916\CAR013.D
Tune Time: 16 Sep 2008 6:21

Daily Calibration File: C:\MSDCHEM\1\DATA\20080916\CAR014.D

		2245	7862	7436
File	Sample	Internal	Standard	Responses
CAR015.D	20080916-MB	2028	6992	6711
CAR016.D	20080916-MB	2043	6933	6724
CAR017.D	20080916-LB	2110	7453	7060
CAR018.D	20080916-LCS	2109	7695	7329
CAR019.D	51350\F4-SG	2003	7179	7196
CAR020.D	51352\H4-SG	2043	7309	6805
CAR021.D	51351\G4-SG	2033	7136	6751
CAR022.D	51353\H3-SG	1979	7036	6616
CAR023.D	51354\G3-SG	2002	7110	6639
CAR024.D	51355\H2-SG	1973	6923	6525
CAR025.D	51356\H1-SG	1993	7063	6666
CAR026.D	51357\G1-SG	1971	6796	6469
CAR027.D	51358\G2-SG	2027	6777	6563
CAR028.D	51359\F1-SG	1969	6861	6515
CAR029.D	51359\F1-SG Rep	1904	6388	6005
CAR030.D	51360\F2-SG	1976	6690	6357
CAR032.D	51359\F1-SG Rep	1804	5965	5908
CAR033.D	51362\A1-SG	1932	6547	6475
CAR034.D	51363\A2-SG	1963	6556	6238

CAR035.D	51372\D2-SG	1744	6018	6209
CAR036.D	51364\B2-SG	1844	6120	5866
CAR037.D	51365\B3-SG	1928	6348	6242
CAR038.D	51372\D2-SG	1891	6415	6261
CAR039.D	51366\A3-SG	1866	6187	5917
CAR040.D	51368\C1-SG	1830	6267	5983
CAR041.D	51369\C3-SG	1834	6108	6016
CAR042.D	51367\A4-SG	1823	6107	5797
CAR043.D	51370\E1-SG	1925	6343	6262
CAR044.D	51371\D1-SG	1881	6206	5706
CAR045.D	51373\E3-SG	1787	6063	5939
CAR046.D	51374\D3-SG	1870	6177	5950
CAR047.D	51375\E4-SG	1681	5837	5588
CAR048.D	51376\D5-SG	1827	5975	5803
CAR049.D	51377\C6-SG	1732	5772	5615
CAR050.D	51371\D1-SG	1685	5930	5637
CAR051.D	51378\C5-SG	1749	5750	5393
CAR052.D	51379\C7-SG	1820	5899	5325
CAR053.D	51380\B7-SG	1588	5247	5250
CAR054.D	51381\B8-SG	1636	5482	5061
CAR055.D	51383\B4-SG	1542	5208	4875
CAR056.D	51384\C4-SG	1607	5269	5093
CAR057.D	51386\B5-SG	1933	6302	6952
CAR058.D	51394\B10-SG	1540	5104	4876
CAR059.D	51395\B11-SG	1468	4865	4575

CAR060.D	51392\C8-SG	1576	5101	4999
CAR061.D	51400\C10-SG	1588	5073	4748
CAR062.D	51398\C11-SG	1571	5065	4798
CAR063.D	51399\C12-SG	1477	5127	4692
CAR064.D	51412\D7-SG	1495	4937	4864
CAR065.D	51409\D8-SG	1500	4986	4665
CAR066.D	51405\D10-SG	1530	5085	4956
CAR067.D	51401\D12-SG	1584	5009	4697
CAR068.D	51411\E7-SG	1562	5012	4769
CAR069.D	51410\E8-SG	1545	5122	4847
CAR070.D	51407\E9-SG	1499	4973	4811
CAR071.D	51406\E10-SG	1542	4845	4606
CAR072.D	51403\E11-SG	1384	4552*	4359*
CAR073.D	51402\E12-SG	1508	4761	4567

t - fails 24hr time check * - fails criteria

Created: Tue Sep 30 7:17:41 2008 Instrument

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 10:37:18 2008
Response via : Initial Calibration

Continuing Calibration File: CAR014.D

Min. RRF : 0.000 Min. Rel. Area : 50%
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%
1	Bromochloromethane	1.000	1.000	0.0	97
2	Vinyl Chloride	0.566	0.538	4.8	96
3	1,1-Dichloroethene	0.894	0.910	-1.8	98
4	Methyl tert-Butyl Ether (MTBE	1.298	1.347	-3.8	93
5	trans-1,2-Dichloroethene	0.840	0.844	-0.5	98
6	1,1-Dichloroethane	1.120	1.178	-5.2	96
7	cis-1,2-Dichloroethene	0.808	0.793	1.8	99
8	1,1,1-Trichloroethane	1.247	1.309	-4.9	98
9	1,4-Difluorobenzene	1.000	1.000	0.0	81
10	Benzene	0.606	0.499	17.7	97
11	Trichloroethene	0.294	0.334	-14.0	96
12	Chlorobenzene-d5	1.000	1.000	0.0	59
13	Toluene	0.606	0.702	-15.7	99
14	Tetrachloroethene	0.365	0.422	-15.9	98
15	Ethylbenzene	0.702	0.890	-26.9	107
16	m&p-Xylenes	0.495	0.640	-29.2	99
17	o-Xylene	0.566	0.666	-17.6	103

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR014.D Vial: 1
Acq On : 16 Sep 2008 6:44 Operator: dlm
Sample : STD20080916-3/ Inst : Instrumen
Misc : 500 ppbv ICAL std./ Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 04:06:03 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Mon Sep 15 14:06:12 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	2245	10.00 ppbv	-0.04
9) 1,4-Difluorobenzene	4.47	114	7862	10.00 ppbv	-0.06
12) Chlorobenzene-d5	5.79	117	7436	10.00 ppbv	-0.13

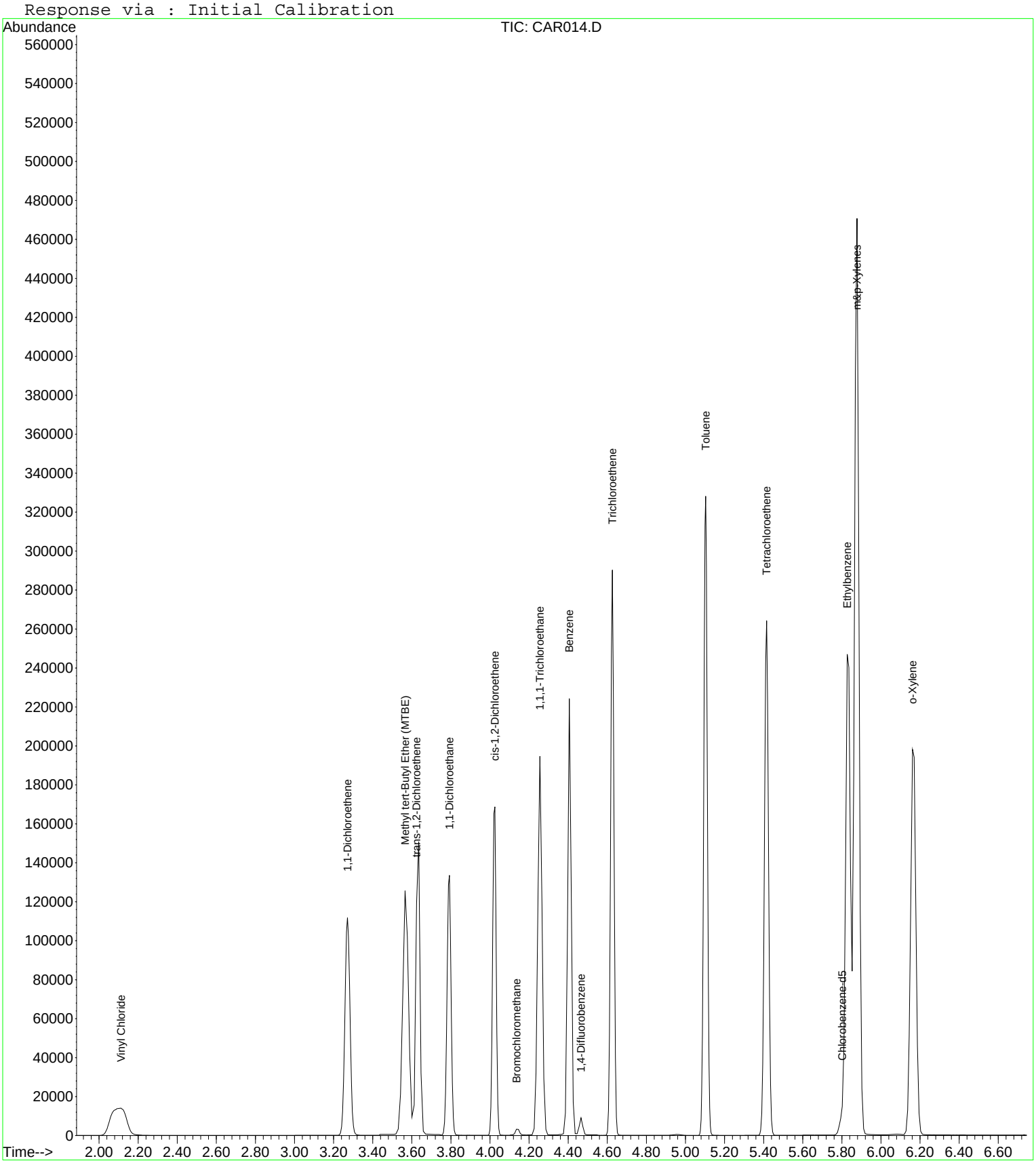
Target Compounds					Qvalue
2) Vinyl Chloride	2.11	62	60437m	470.91 ppbv	
3) 1,1-Dichloroethene	3.27	61	102122	508.95 ppbv	91
4) Methyl tert-Butyl Ether (M	3.57	73	151195	497.56 ppbv #	13
5) trans-1,2-Dichloroethene	3.62	61	94737	502.25 ppbv	91
6) 1,1-Dichloroethane	3.79	63	132198	533.54 ppbv	97
7) cis-1,2-Dichloroethene	4.02	61	89050m	472.15 ppbv	
8) 1,1,1-Trichloroethane	4.26	97	146888	524.17 ppbv	100
10) Benzene	4.41	78	196074	410.08 ppbv	96
11) Trichloroethene	4.63	130	131488	564.78 ppbv	92
13) Toluene	5.10	91	260906	577.73 ppbv	100
14) Tetrachloroethene	5.41	166	157083	578.33 ppbv	95
15) Ethylbenzene	5.83	91	331004	633.18 ppbv	94
16) m&p-Xylenes	5.88	91	475804	1289.96 ppbv	92
17) o-Xylene	6.16	91	247740	587.04 ppbv	92

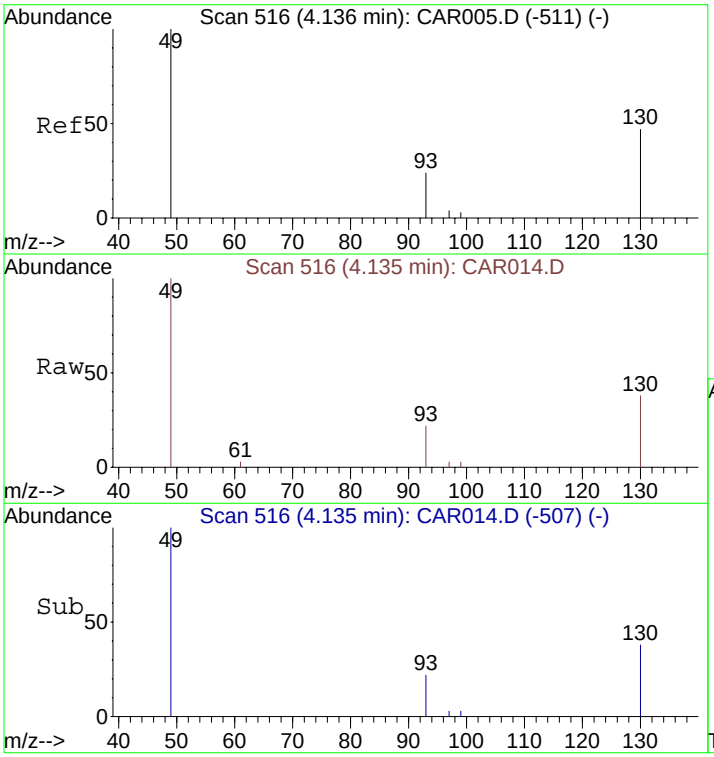
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR014.D Vial: 1
Acq On : 16 Sep 2008 6:44 Operator: dlm
Sample : STD20080916-3/ Inst : Instrumen
Misc : 500 ppbv ICAL std./ Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 9:14 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Wed Nov 05 16:35:43 2008
Response via : Initial Calibration

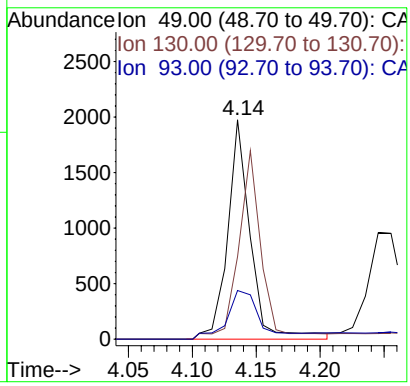


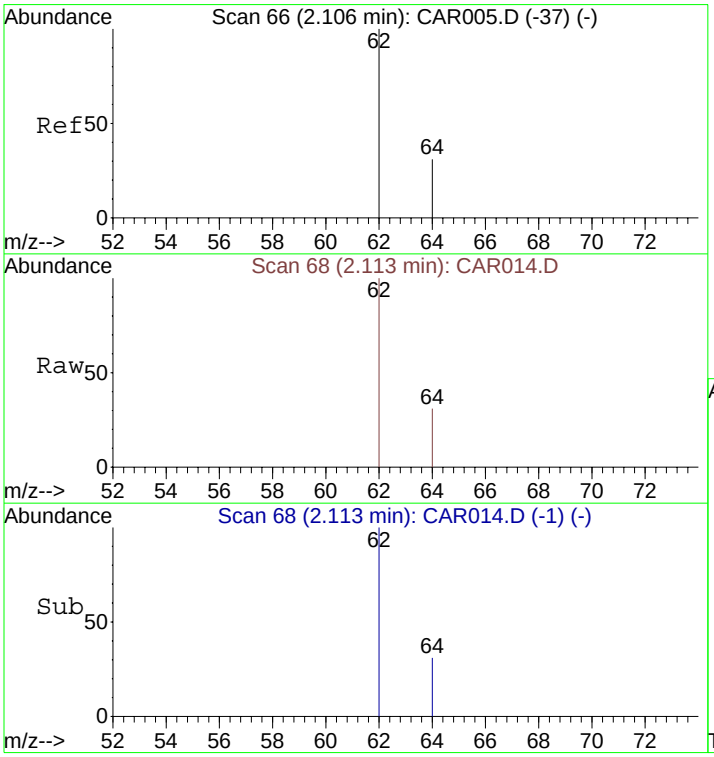


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. -0.04 min
Lab File: CAR014.D
Acq: 16 Sep 2008 6:44

Tgt Ion: 49 Resp: 2245

Ion	Ratio	Lower	Upper
49	100		
130	87.0	65.1	97.7
93	32.1	33.8	50.6#

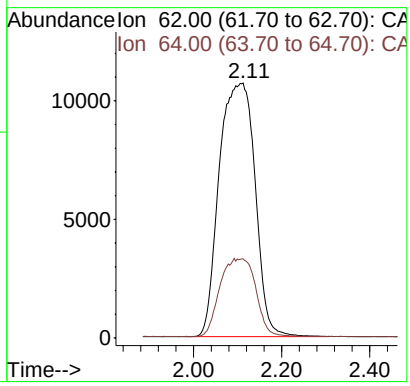


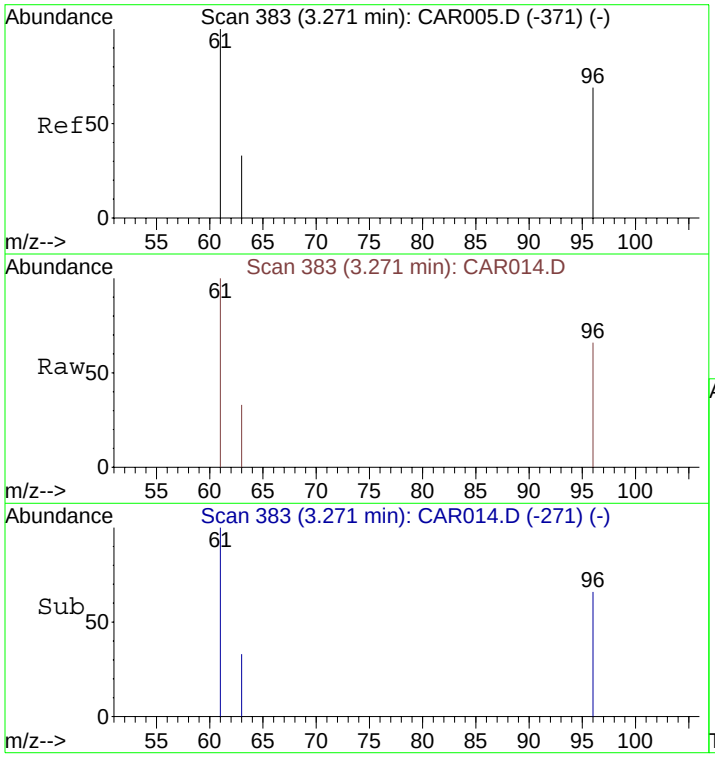


#2
Vinyl Chloride
Concen: 470.91 ppbv m
RT: 2.11 min Scan# 68
Delta R.T. -0.17 min
Lab File: CAR014.D
Acq: 16 Sep 2008 6:44

Tgt Ion: 62 Resp: 60437

Ion	Ratio	Lower	Upper
62	100		
64	31.5	9.4	14.2#

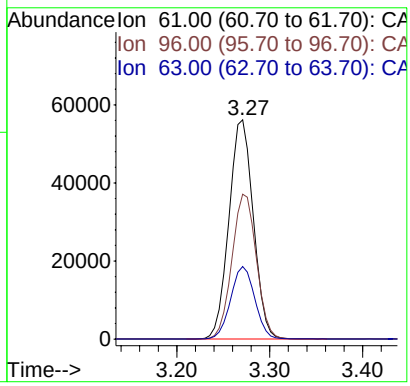


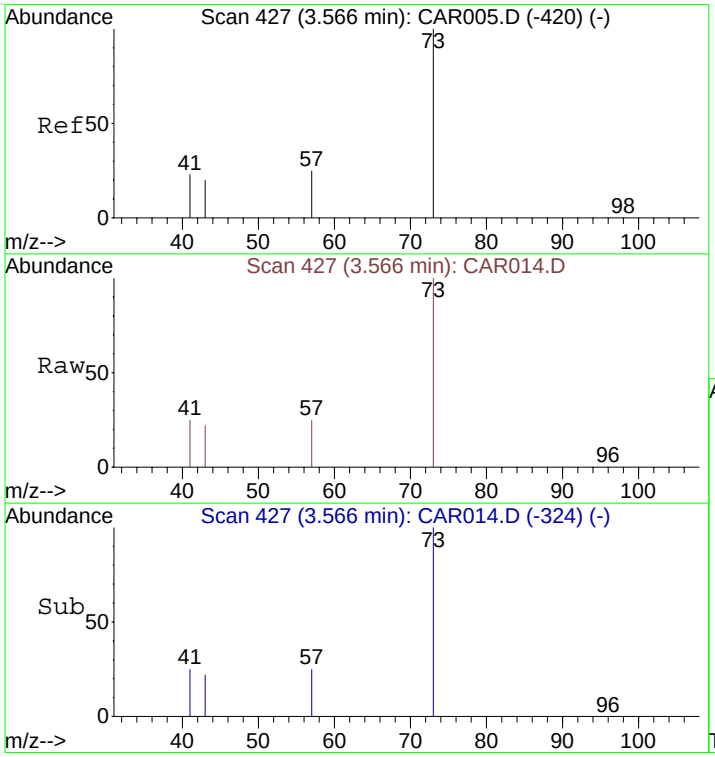


#3
1,1-Dichloroethene
Concen: 508.95 ppbv
RT: 3.27 min Scan# 383
Delta R.T. -0.03 min
Lab File: CAR014.D
Acq: 16 Sep 2008 6:44

Tgt Ion: 61 Resp: 102122

Ion	Ratio	Lower	Upper
61	100		
96	66.2	45.7	68.5
63	32.7	25.0	37.4

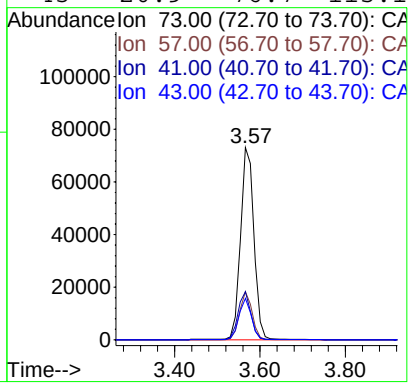


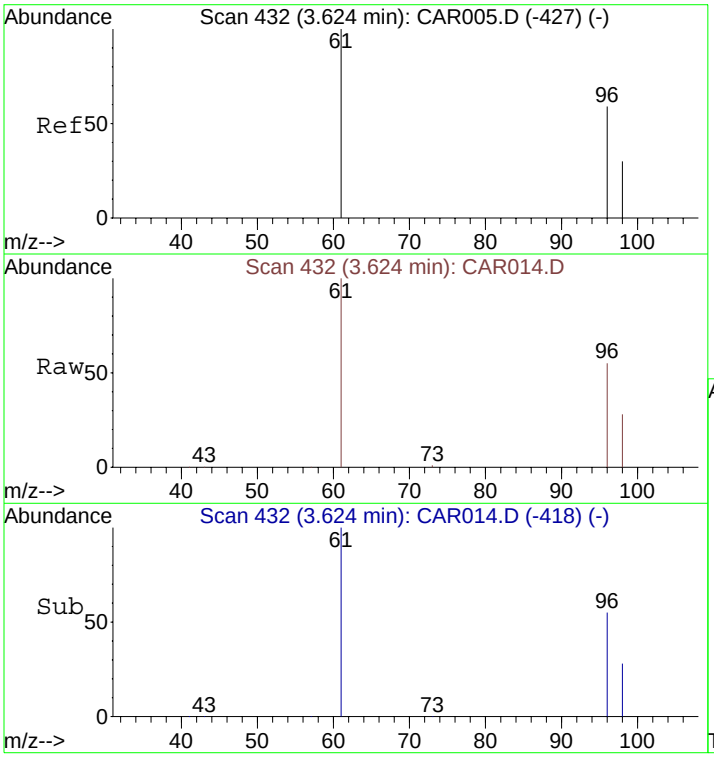


#4
Methyl tert-Butyl Ether (MTBE)
Concen: 497.56 ppbv
RT: 3.57 min Scan# 427
Delta R.T. 0.08 min
Lab File: CAR014.D
Acq: 16 Sep 2008 6:44

Tgt Ion: 73 Resp: 151195

Ion	Ratio	Lower	Upper
73	100		
57	24.6	32.6	49.0#
41	24.8	139.4	209.2#
43	20.9	76.7	115.1#

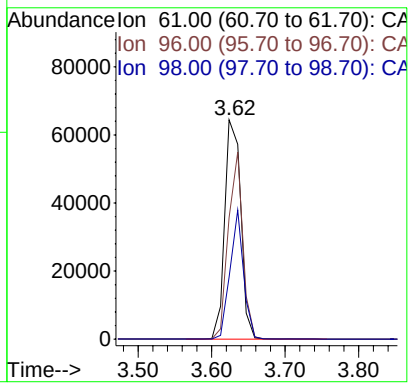


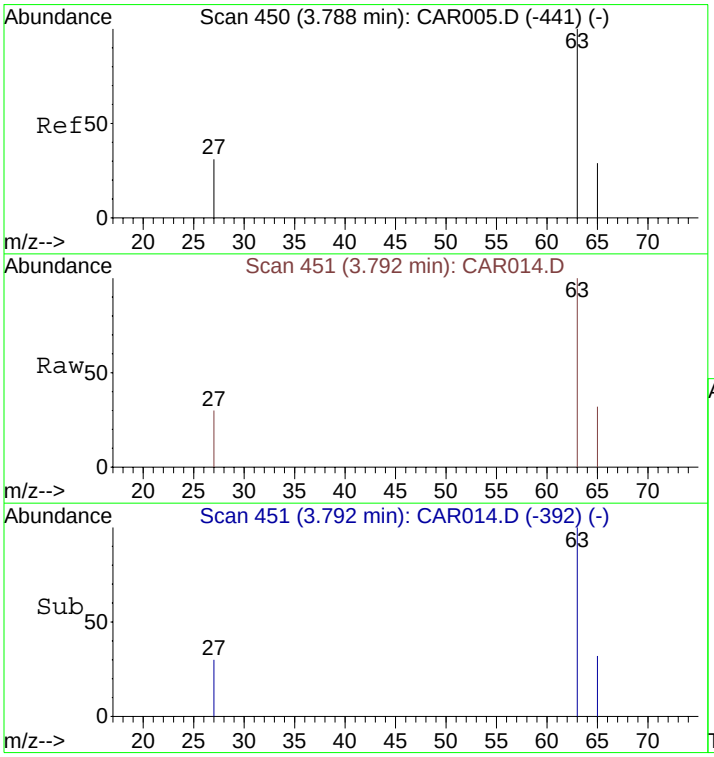


#5
trans-1,2-Dichloroethene
Concen: 502.25 ppbv
RT: 3.62 min Scan# 432
Delta R.T. -0.04 min
Lab File: CAR014.D
Acq: 16 Sep 2008 6:44

Tgt Ion: 61 Resp: 94737

Ion	Ratio	Lower	Upper
61	100		
96	76.6	55.0	82.4
98	49.7	35.6	53.4

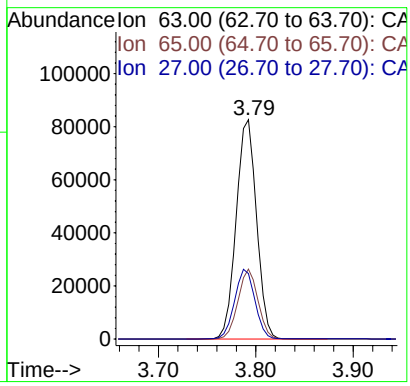


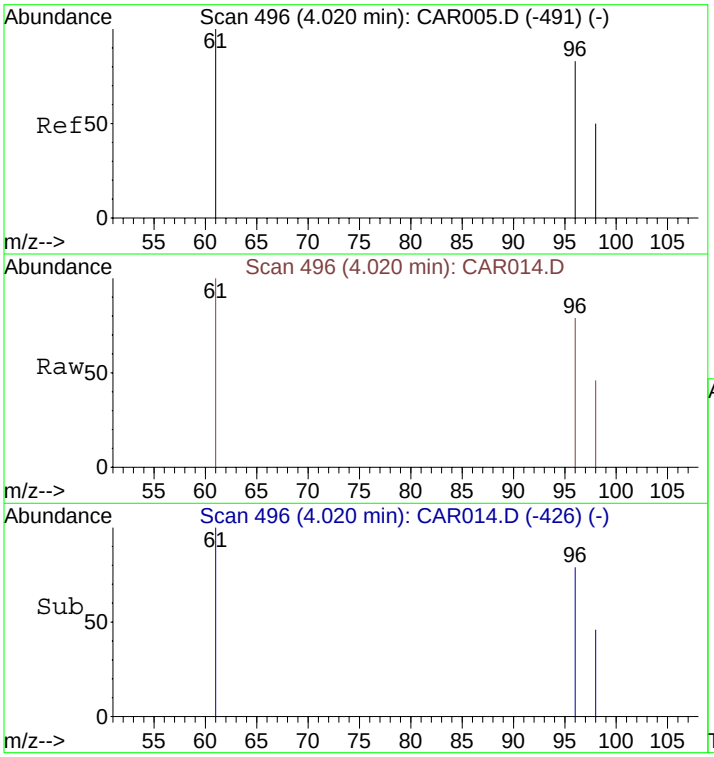


#6
1,1-Dichloroethane
Concen: 533.54 ppbv
RT: 3.79 min Scan# 451
Delta R.T. -0.03 min
Lab File: CAR014.D
Acq: 16 Sep 2008 6:44

Tgt Ion: 63 Resp: 132198

Ion	Ratio	Lower	Upper
63	100		
65	31.7	23.5	35.3
27	32.5	26.7	40.1

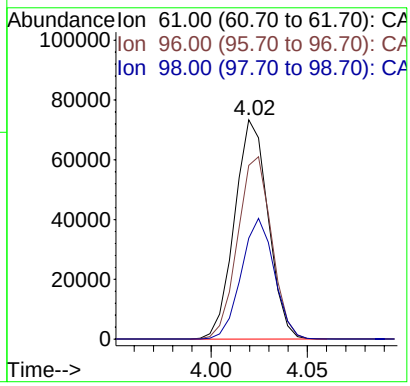


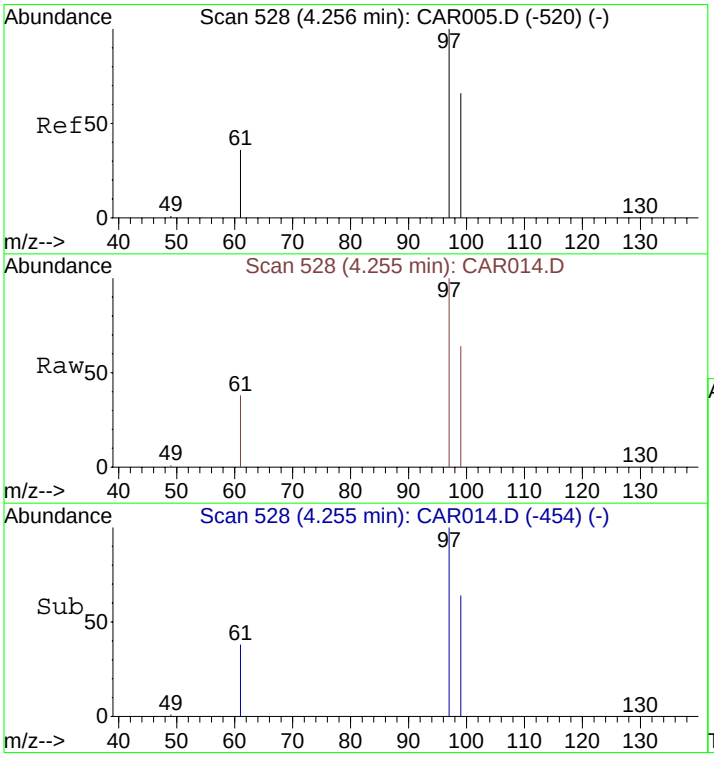


#7
cis-1,2-Dichloroethene
Concen: 472.15 ppbv m
RT: 4.02 min Scan# 496
Delta R.T. -0.04 min
Lab File: CAR014.D
Acq: 16 Sep 2008 6:44

Tgt Ion: 61 Resp: 89050

Ion	Ratio	Lower	Upper
61	100		
96	84.0	56.0	84.0#
98	54.2	36.2	54.4

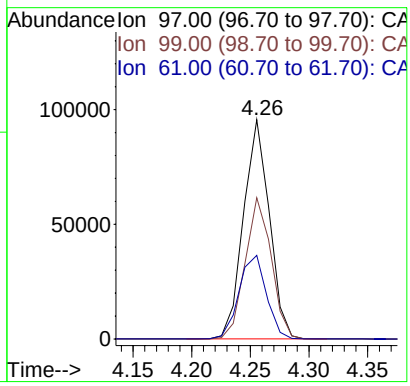


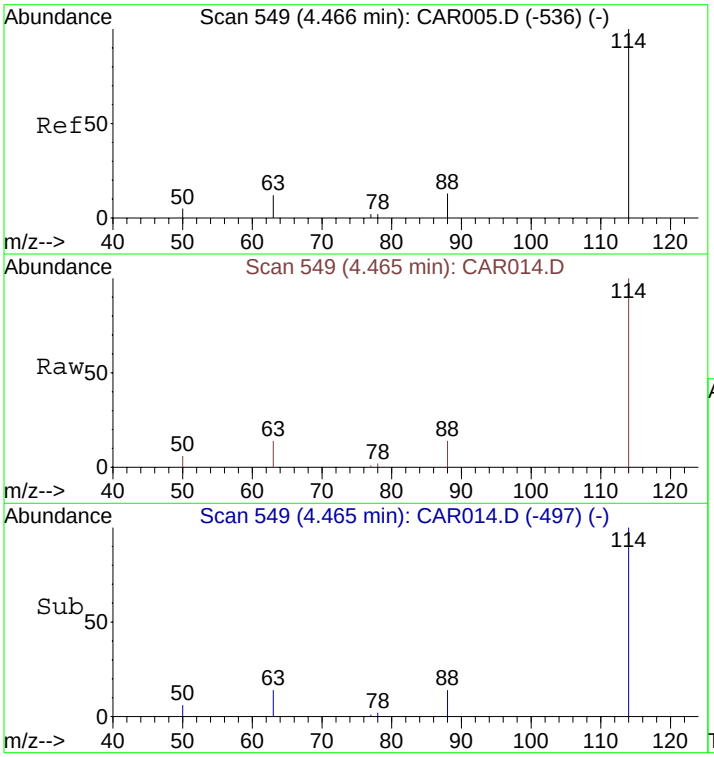


#8
1,1,1-Trichloroethane
Concen: 524.17 ppbv
RT: 4.26 min Scan# 528
Delta R.T. -0.05 min
Lab File: CAR014.D
Acq: 16 Sep 2008 6:44

Tgt Ion: 97 Resp: 146888

Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.8	77.8
61	40.3	32.1	48.1

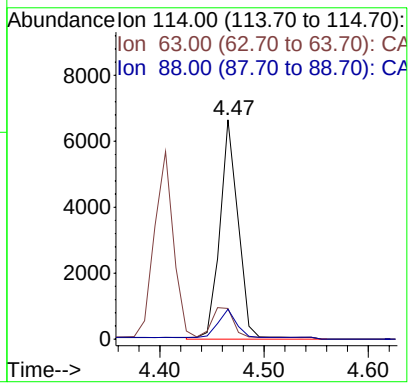


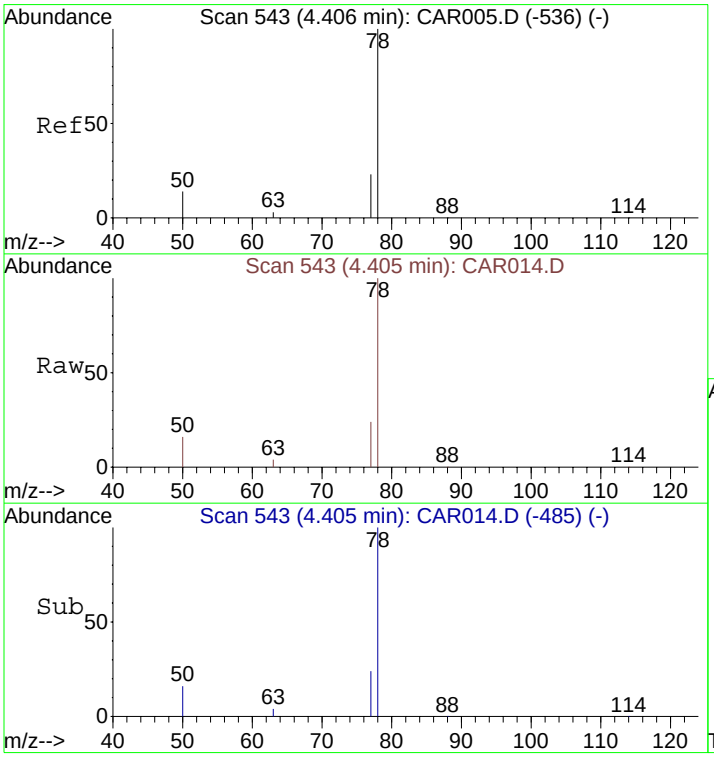


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. -0.06 min
Lab File: CAR014.D
Acq: 16 Sep 2008 6:44

Tgt Ion:114 Resp: 7862

Ion	Ratio	Lower	Upper
114	100		
63	20.1	15.8	23.8
88	13.8	12.2	18.2

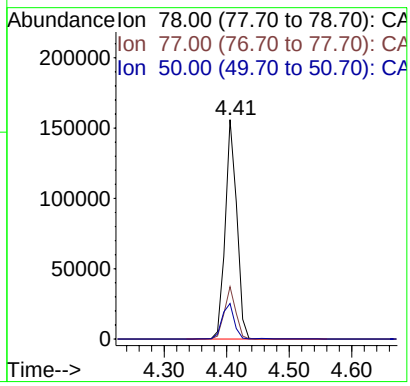


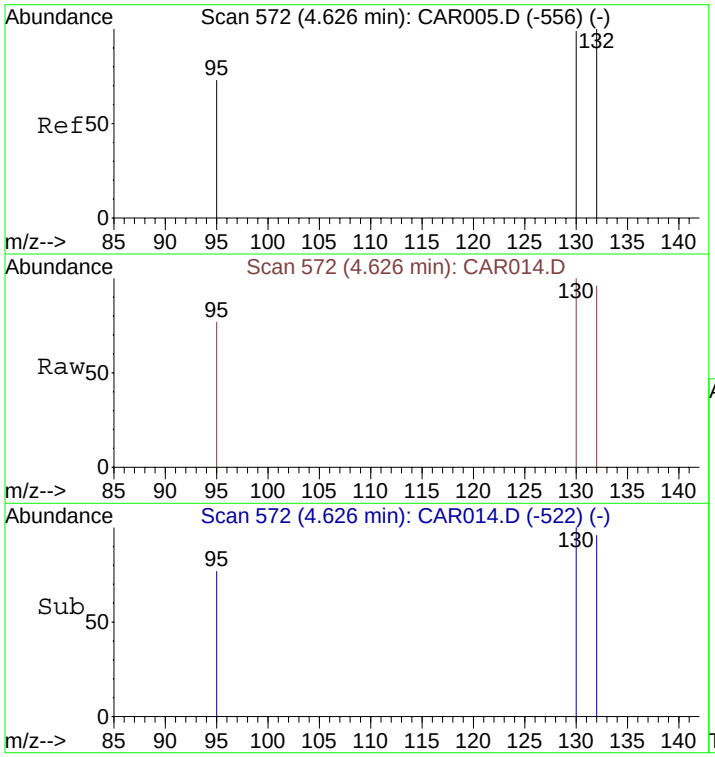


#10
Benzene
Concen: 410.08 ppbv
RT: 4.41 min Scan# 543
Delta R.T. -0.06 min
Lab File: CAR014.D
Acq: 16 Sep 2008 6:44

Tgt Ion: 78 Resp: 196074

Ion	Ratio	Lower	Upper
78	100		
77	24.2	18.6	28.0
50	17.4	16.2	24.4

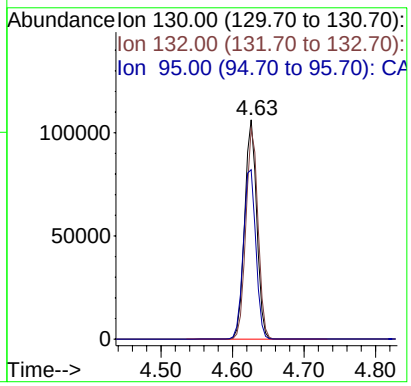


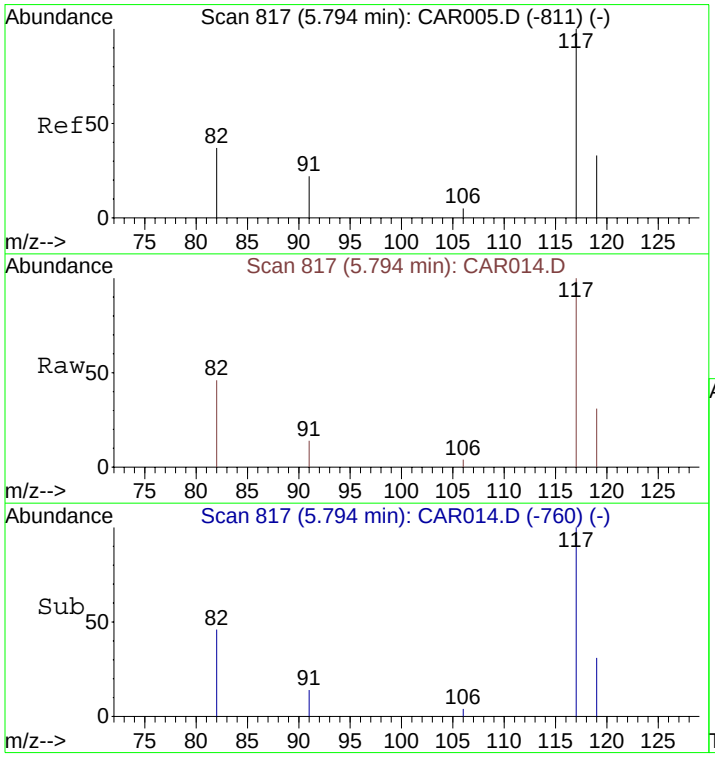


#11
Trichloroethene
Concen: 564.78 ppbv
RT: 4.63 min Scan# 572
Delta R.T. -0.07 min
Lab File: CAR014.D
Acq: 16 Sep 2008 6:44

Tgt Ion:130 Resp: 131488

Ion	Ratio	Lower	Upper
130	100		
132	91.2	73.8	110.6
95	76.0	72.5	108.7

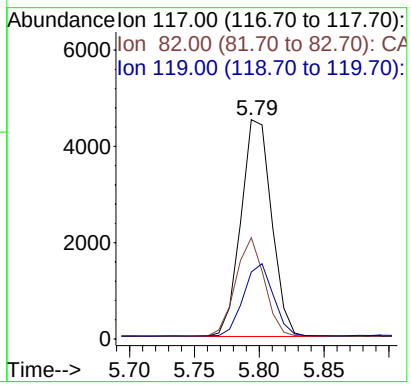


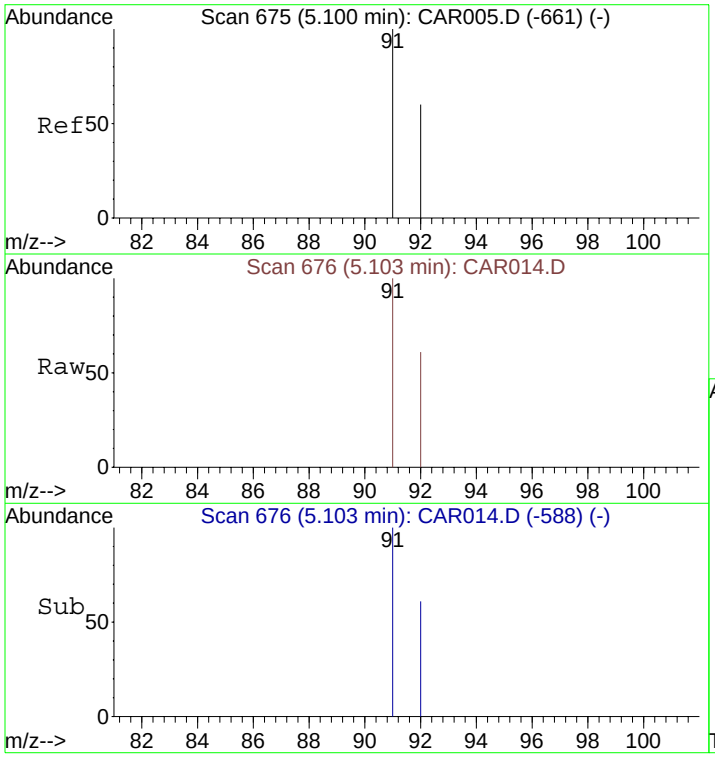


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.79 min Scan# 817
Delta R.T. -0.13 min
Lab File: CAR014.D
Acq: 16 Sep 2008 6:44

Tgt Ion:117 Resp: 7436

Ion	Ratio	Lower	Upper
117	100		
82	42.7	38.3	57.5
119	32.2	26.0	39.0

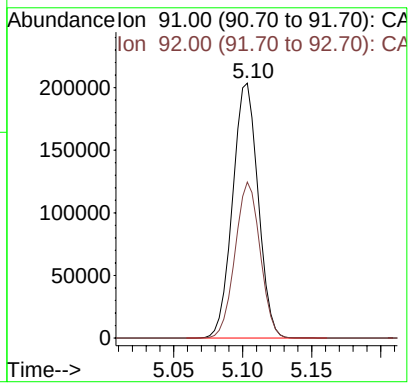


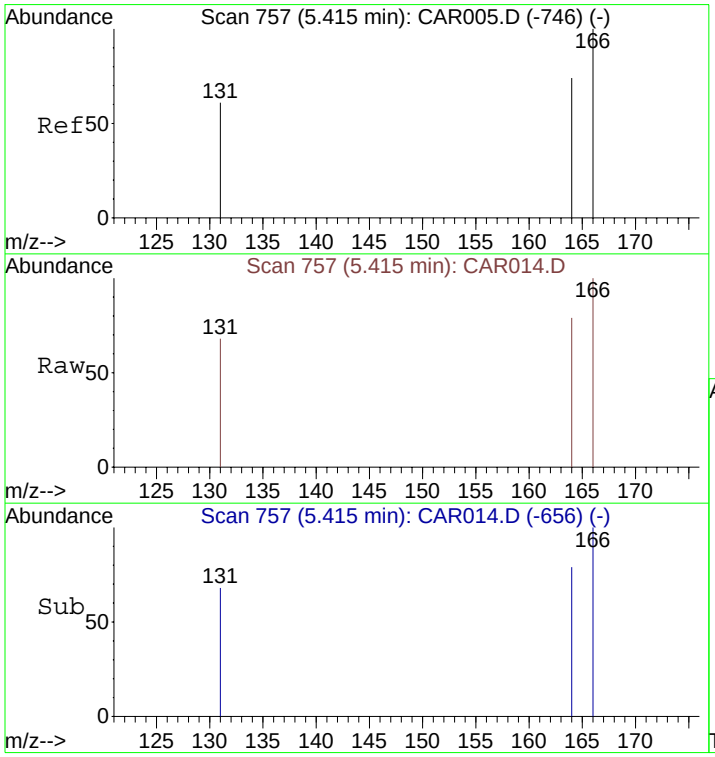


#13
Toluene
Concen: 577.73 ppbv
RT: 5.10 min Scan# 676
Delta R.T. -0.11 min
Lab File: CAR014.D
Acq: 16 Sep 2008 6:44

Tgt Ion: 91 Resp: 260906

Ion	Ratio	Lower	Upper
91	100		
92	60.3	48.2	72.2

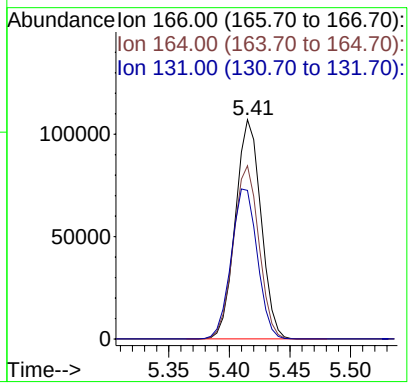


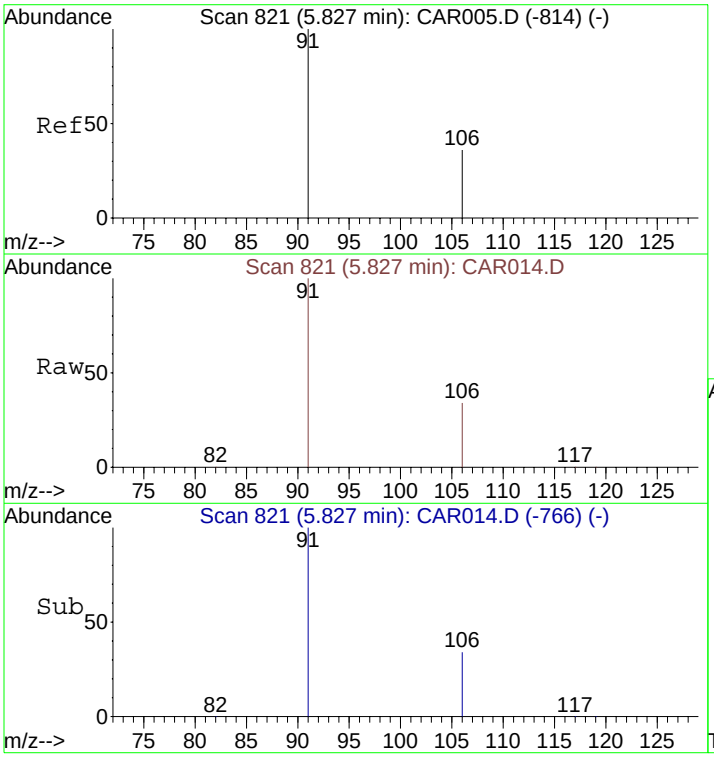


#14
Tetrachloroethene
Concen: 578.33 ppbv
RT: 5.41 min Scan# 757
Delta R.T. -0.12 min
Lab File: CAR014.D
Acq: 16 Sep 2008 6:44

Tgt Ion:166 Resp: 157083

Ion	Ratio	Lower	Upper
166	100		
164	78.8	63.1	94.7
131	69.9	62.9	94.3

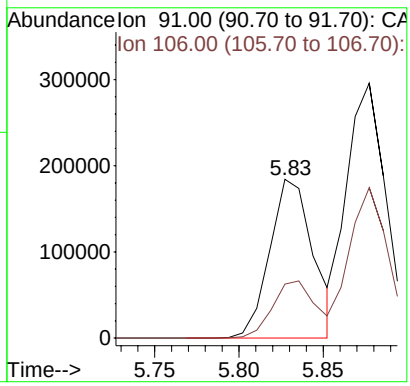


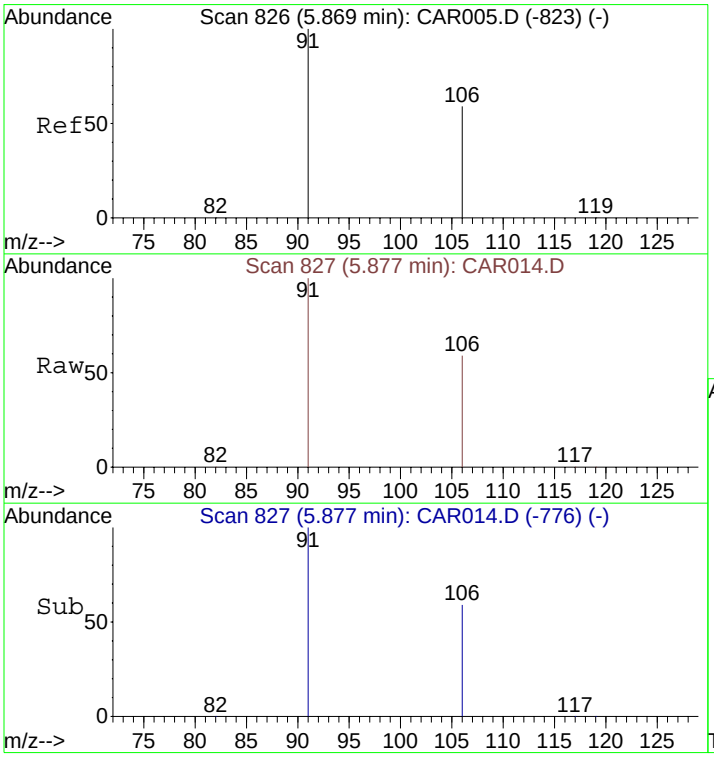


#15
Ethylbenzene
Concen: 633.18 ppbv
RT: 5.83 min Scan# 821
Delta R.T. -0.13 min
Lab File: CAR014.D
Acq: 16 Sep 2008 6:44

Tgt Ion: 91 Resp: 331004

Ion	Ratio	Lower	Upper
91	100		
106	36.1	26.3	39.5

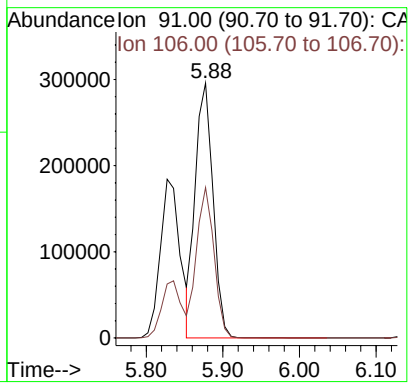


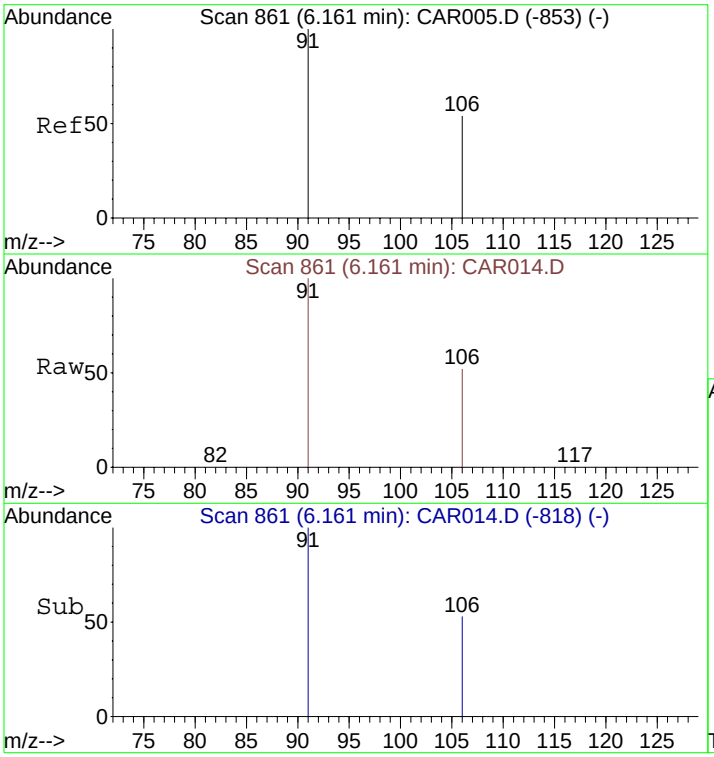


#16
m&p-Xylenes
Concen: 1289.96 ppbv
RT: 5.88 min Scan# 827
Delta R.T. -0.13 min
Lab File: CAR014.D
Acq: 16 Sep 2008 6:44

Tgt Ion: 91 Resp: 475804

Ion	Ratio	Lower	Upper
91	100		
106	58.3	41.8	62.8

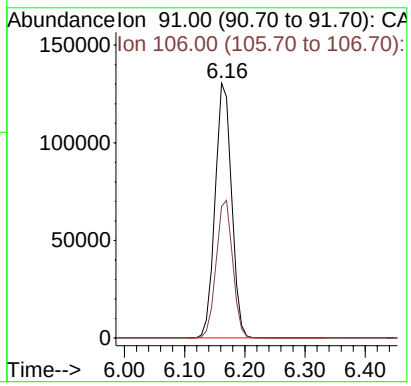




#17
o-Xylene
Concen: 587.04 ppbv
RT: 6.16 min Scan# 861
Delta R.T. -0.14 min
Lab File: CAR014.D
Acq: 16 Sep 2008 6:44

Tgt Ion: 91 Resp: 247740

Ion	Ratio	Lower	Upper
91	100		
106	54.1	38.9	58.3



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\20080916\CAR018.D Vial: 1
Acq On : 16 Sep 2008 8:18 Operator: dlm
Sample : 20080916-LCS Inst : Instrumen
Misc : 500 ppbv 2nd Source cert 196 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 10:37:21 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Bromochloromethane	10.000	10.000	0.0	91	0.00
2	Vinyl Chloride	500.000	532.240	-6.4	102	-0.01
3	1,1-Dichloroethene	500.000	577.302	-15.5	105	0.00
4	Methyl tert-Butyl Ether (MT	500.000	332.217	33.6#	58	0.00
5	trans-1,2-Dichloroethene	500.000	564.981	-13.0	104	0.00
6	1,1-Dichloroethane	500.000	600.638	-20.1	102	0.00
7	cis-1,2-Dichloroethene	500.000	521.801	-4.4	102	0.00
8	1,1,1-Trichloroethane	500.000	585.217	-17.0	103	0.00
9	1,4-Difluorobenzene	10.000	10.000	0.0	79	0.01
10	Benzene	500.000	424.497	15.1	98	0.01
11	Trichloroethene	500.000	568.652	-13.7	94	0.01
12	Chlorobenzene-d5	10.000	10.000	0.0	58	0.03
13	Toluene	500.000	535.933	-7.2	91	0.02
14	Tetrachloroethene	500.000	611.416	-22.3	103	0.03
15	Ethylbenzene	500.000	455.402	8.9	76	0.03
16	m&p-Xylenes	1000.000	954.678	4.5	72	0.03
17	o-Xylene	500.000	390.428	21.9	68	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR018.D Vial: 1
Acq On : 16 Sep 2008 8:18 Operator: dlm
Sample : 20080916-LCS Inst : Instrumen
Misc : 500 ppbv 2nd Source cert 196 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 05:26:58 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 04:27:11 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.14	49	2109	10.00	ppbv	-0.04
9) 1,4-Difluorobenzene	4.48	114	7695	10.00	ppbv	-0.05
12) Chlorobenzene-d5	5.83	117	7329	10.00	ppbv	-0.10

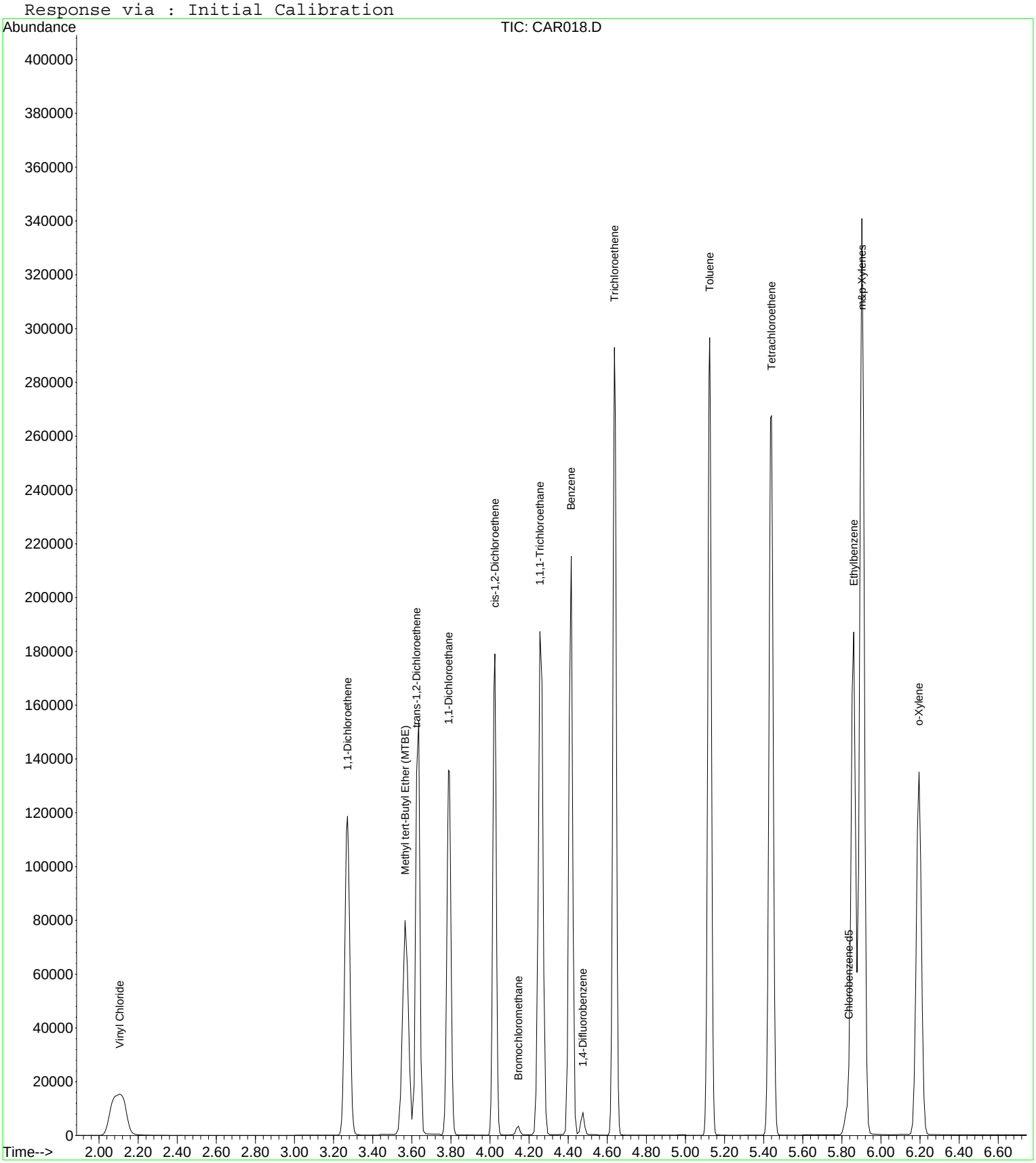
Target Compounds						Qvalue
2) Vinyl Chloride	2.10	62	64170	532.24	ppbv #	51
3) 1,1-Dichloroethene	3.27	61	108819	577.30	ppbv	91
4) Methyl tert-Butyl Ether (M	3.57	73	94837	332.22	ppbv #	13
5) trans-1,2-Dichloroethene	3.62	61	100113	564.98	ppbv	91
6) 1,1-Dichloroethane	3.79	63	139807	600.64	ppbv	98
7) cis-1,2-Dichloroethene	4.02	61	92452m	521.80	ppbv	
8) 1,1,1-Trichloroethane	4.26	97	154060	585.22	ppbv	99
10) Benzene	4.42	78	198657	424.50	ppbv	96
11) Trichloroethene	4.64	130	129578	568.65	ppbv	93
13) Toluene	5.12	91	238548	535.93	ppbv	100
14) Tetrachloroethene	5.44	166	163679	611.42	ppbv	95
15) Ethylbenzene	5.86	91	234642	455.40	ppbv	95
16) m&p-Xylenes	5.90	91	347067	954.68	ppbv	92
17) o-Xylene	6.19	91	162395	390.43	ppbv	92

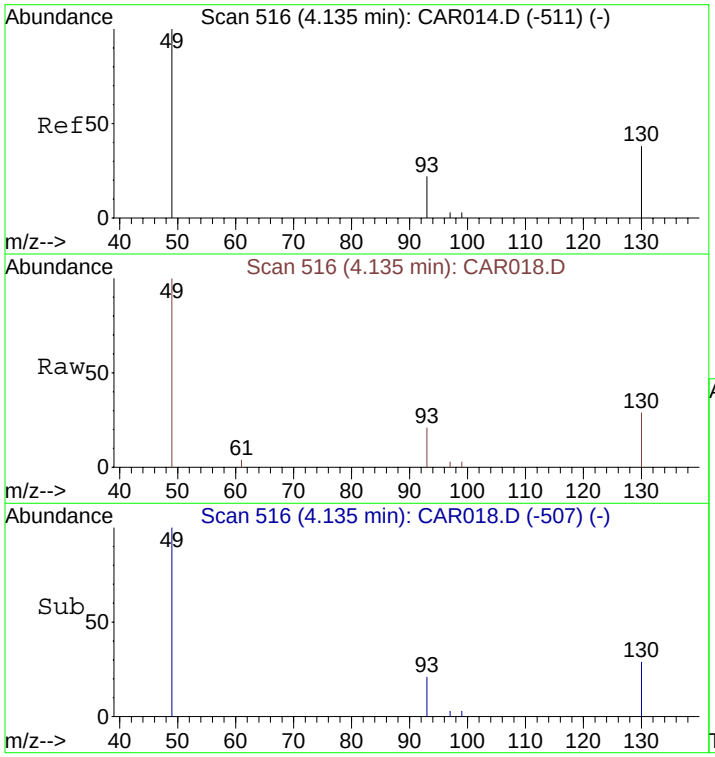
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR018.D Vial: 1
Acq On : 16 Sep 2008 8:18 Operator: dlm
Sample : 20080916-LCS Inst : Instrumen
Misc : 500 ppbv 2nd Source cert 196 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 9:25 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Wed Nov 05 16:56:45 2008
Response via : Initial Calibration

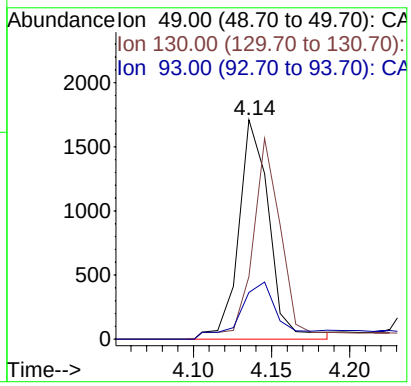


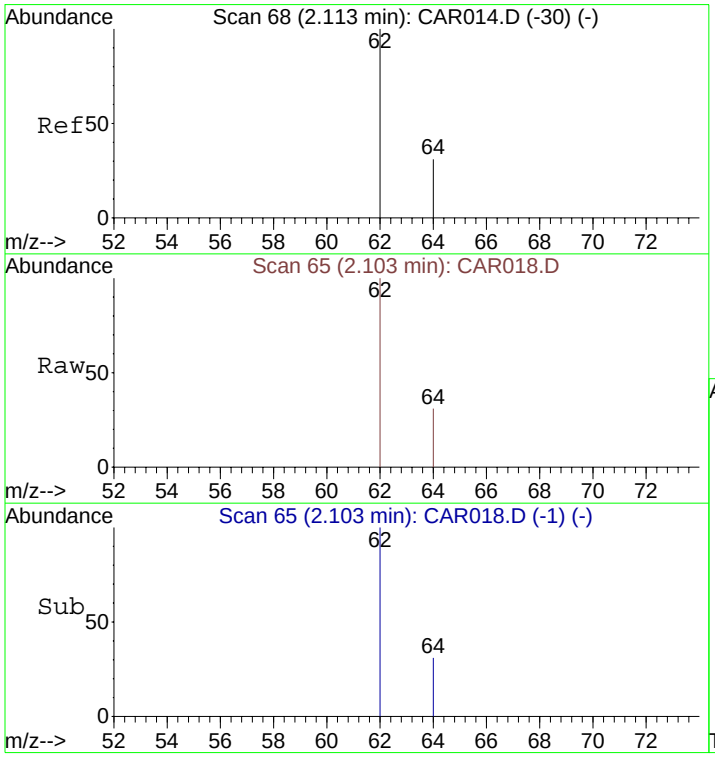


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. -0.04 min
Lab File: CAR018.D
Acq: 16 Sep 2008 8:18

Tgt Ion: 49 Resp: 2109

Ion	Ratio	Lower	Upper
49	100		
130	91.6	65.1	97.7
93	32.4	33.8	50.6#

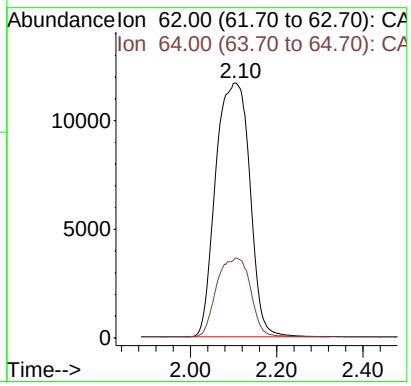


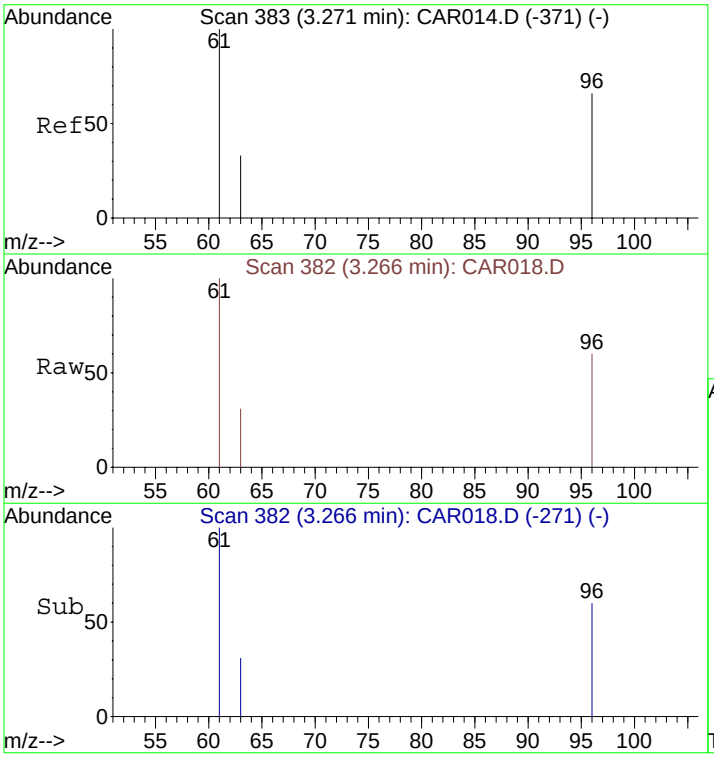


#2
Vinyl Chloride
Concen: 532.24 ppbv
RT: 2.10 min Scan# 65
Delta R.T. -0.18 min
Lab File: CAR018.D
Acq: 16 Sep 2008 8:18

Tgt Ion: 62 Resp: 64170

Ion	Ratio	Lower	Upper
62	100		
64	30.6	9.4	14.2#

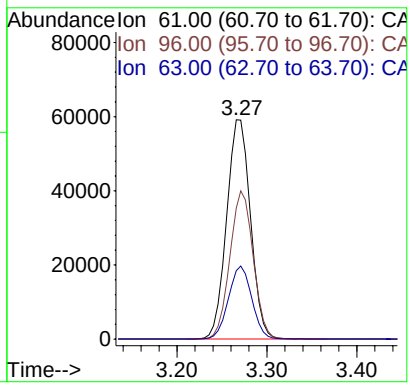


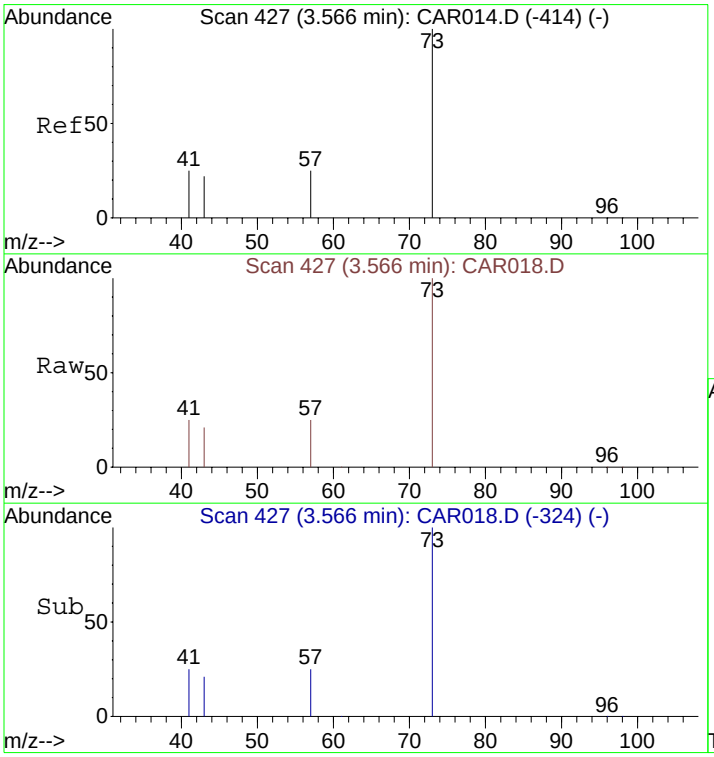


#3
1,1-Dichloroethene
Concen: 577.30 ppbv
RT: 3.27 min Scan# 382
Delta R.T. -0.04 min
Lab File: CAR018.D
Acq: 16 Sep 2008 8:18

Tgt Ion: 61 Resp: 108819

Ion	Ratio	Lower	Upper
61	100		
96	66.0	45.7	68.5
63	32.5	25.0	37.4

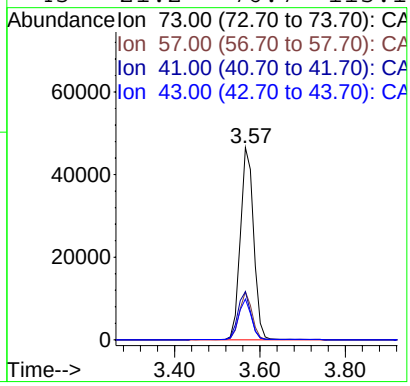


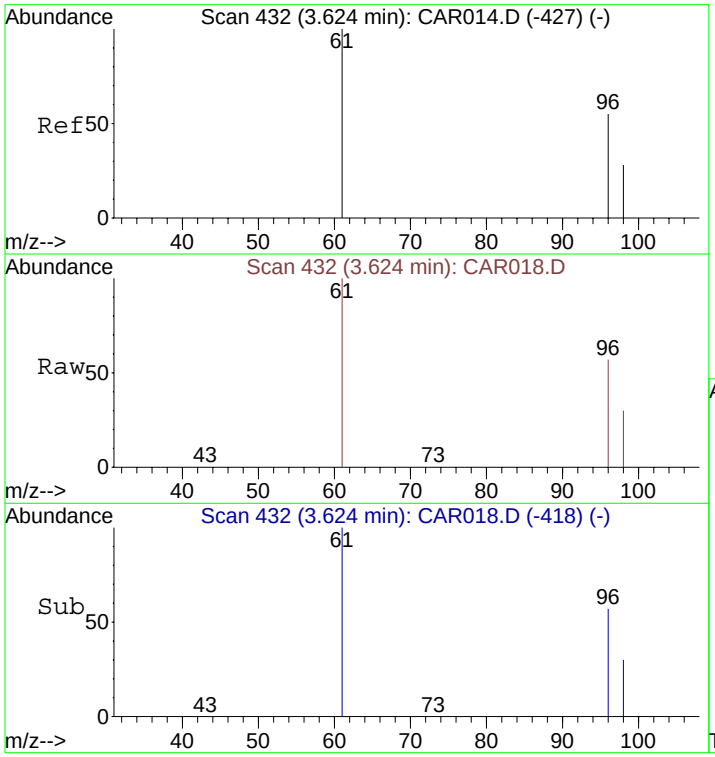


#4
Methyl tert-Butyl Ether (MTBE)
Concen: 332.22 ppbv
RT: 3.57 min Scan# 427
Delta R.T. 0.08 min
Lab File: CAR018.D
Acq: 16 Sep 2008 8:18

Tgt Ion: 73 Resp: 94837

Ion	Ratio	Lower	Upper
73	100		
57	25.0	32.6	49.0#
41	25.6	139.4	209.2#
43	21.2	76.7	115.1#

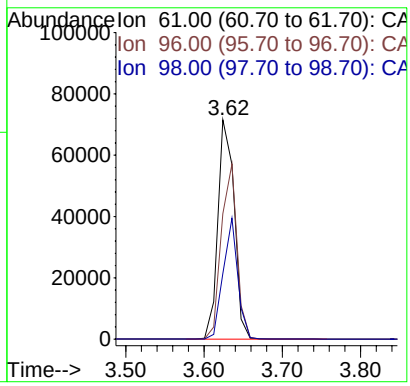


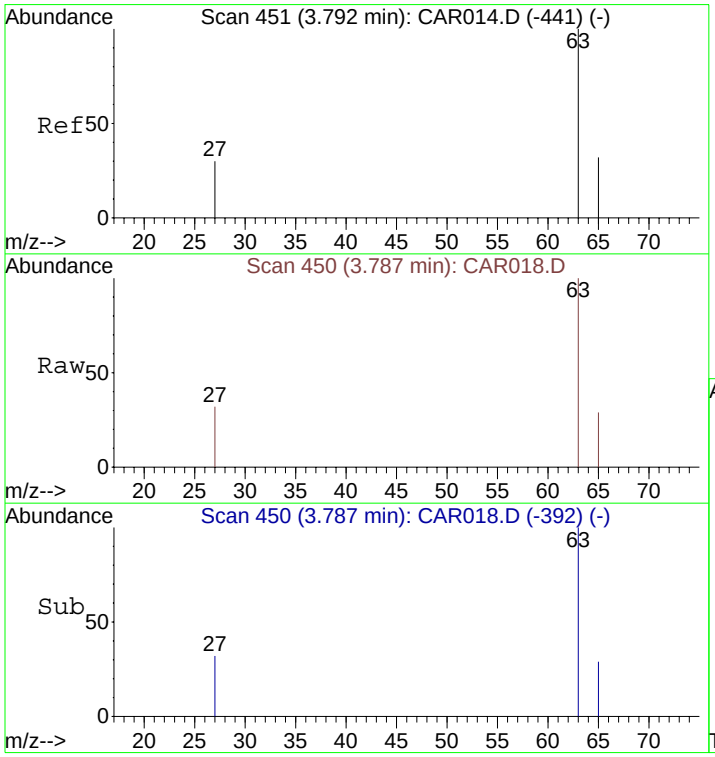


#5
trans-1,2-Dichloroethene
Concen: 564.98 ppbv
RT: 3.62 min Scan# 432
Delta R.T. -0.04 min
Lab File: CAR018.D
Acq: 16 Sep 2008 8:18

Tgt Ion: 61 Resp: 100113

Ion	Ratio	Lower	Upper
61	100		
96	76.7	55.0	82.4
98	49.4	35.6	53.4

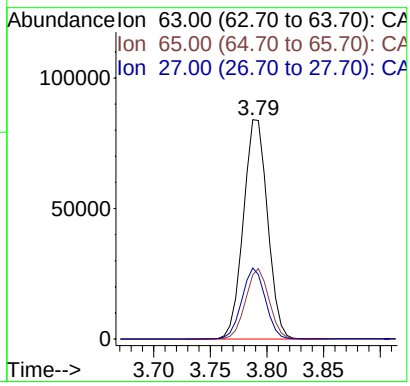


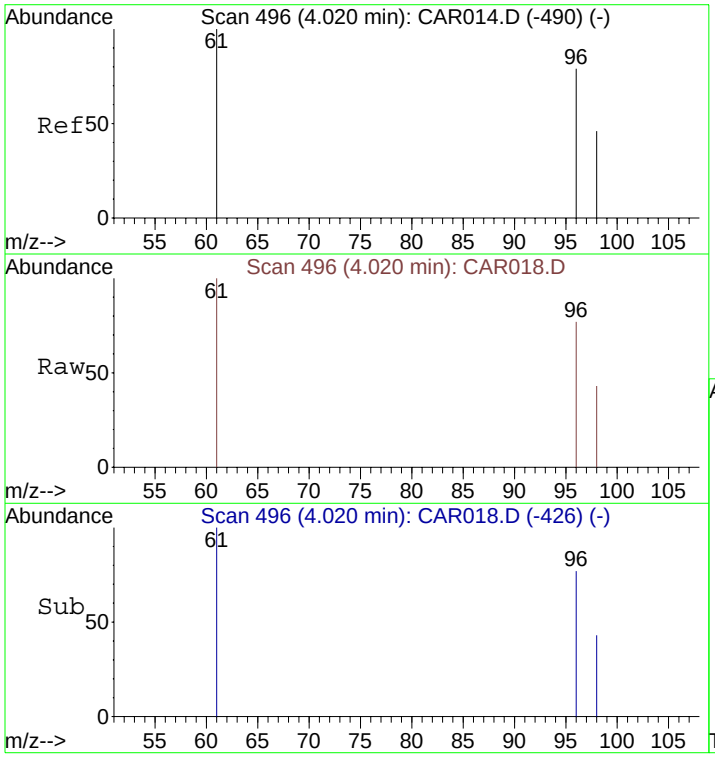


#6
1,1-Dichloroethane
Concen: 600.64 ppbv
RT: 3.79 min Scan# 450
Delta R.T. -0.03 min
Lab File: CAR018.D
Acq: 16 Sep 2008 8:18

Tgt Ion: 63 Resp: 139807

Ion	Ratio	Lower	Upper
63	100		
65	30.3	23.5	35.3
27	32.0	26.7	40.1

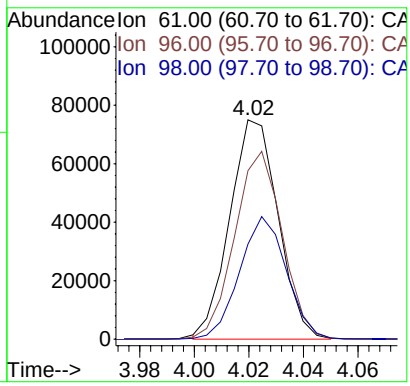


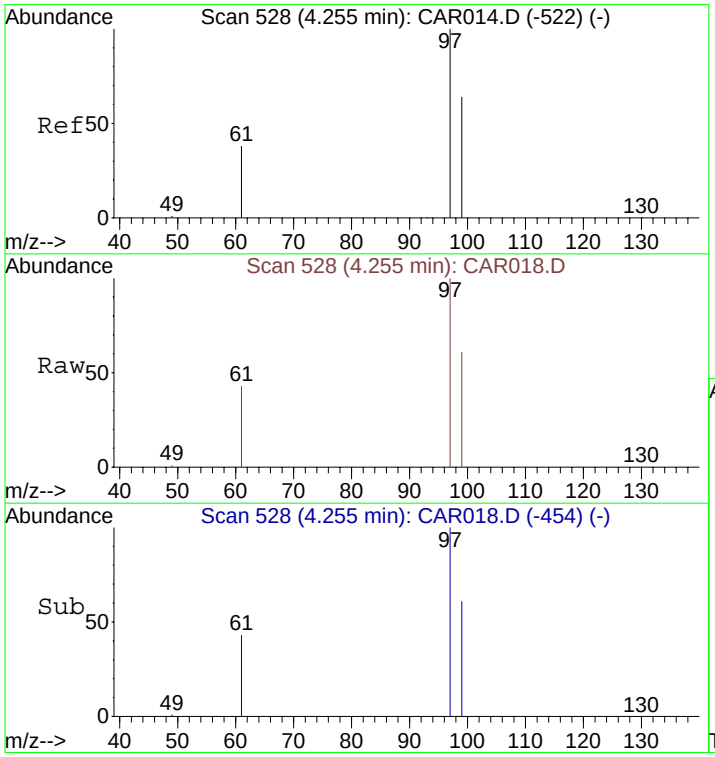


#7
cis-1,2-Dichloroethene
Concen: 521.80 ppbv m
RT: 4.02 min Scan# 496
Delta R.T. -0.04 min
Lab File: CAR018.D
Acq: 16 Sep 2008 8:18

Tgt Ion: 61 Resp: 92452

Ion	Ratio	Lower	Upper
61	100		
96	84.0	56.0	84.0
98	54.1	36.2	54.4

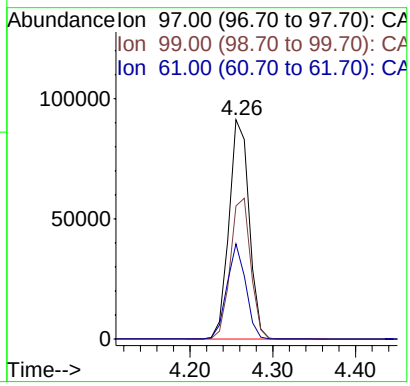


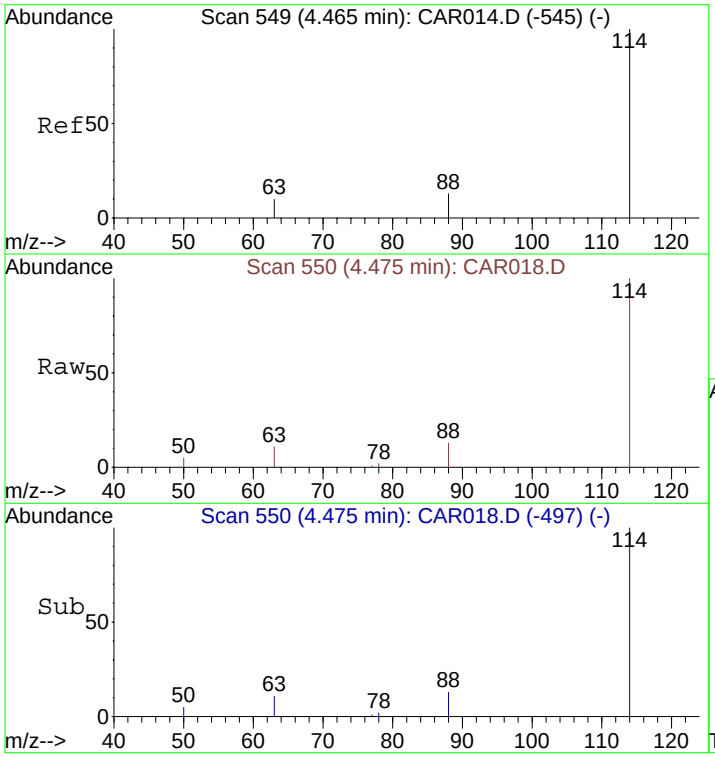


#8
1,1,1-Trichloroethane
Concen: 585.22 ppbv
RT: 4.26 min Scan# 528
Delta R.T. -0.05 min
Lab File: CAR018.D
Acq: 16 Sep 2008 8:18

Tgt Ion: 97 Resp: 154060

Ion	Ratio	Lower	Upper
97	100		
99	65.1	51.8	77.8
61	40.6	32.1	48.1

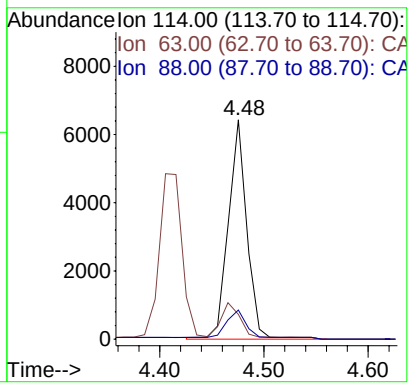


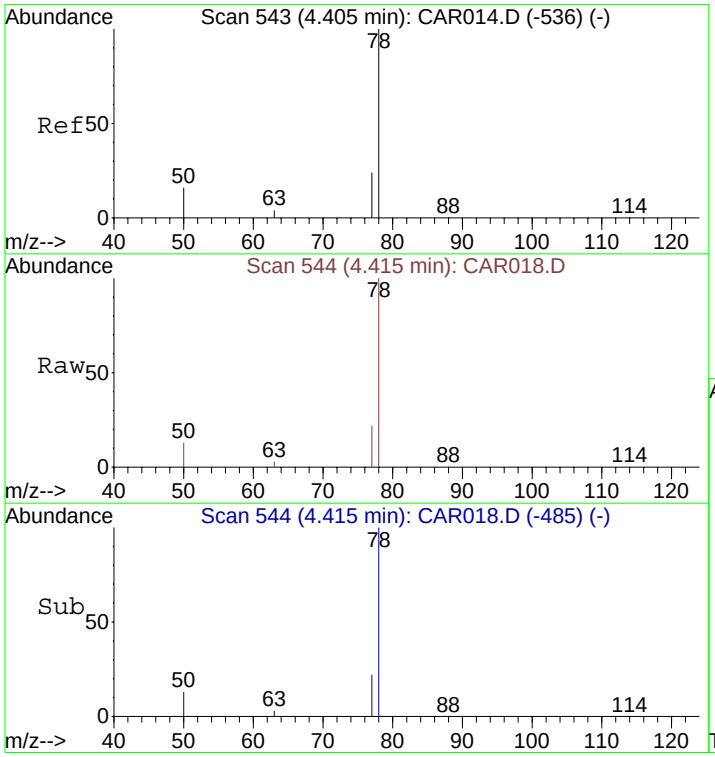


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. -0.05 min
Lab File: CAR018.D
Acq: 16 Sep 2008 8:18

Tgt Ion:114 Resp: 7695

Ion	Ratio	Lower	Upper
114	100		
63	19.8	15.8	23.8
88	17.0	12.2	18.2

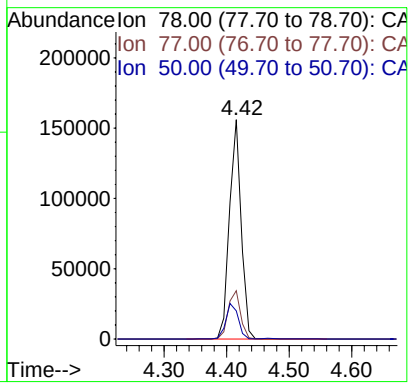


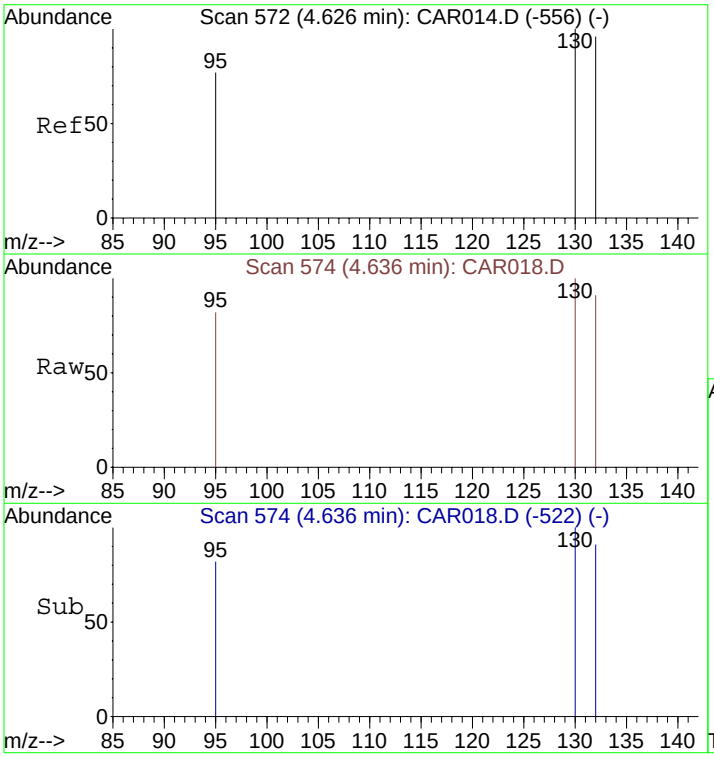


#10
Benzene
Concen: 424.50 ppbv
RT: 4.42 min Scan# 544
Delta R.T. -0.05 min
Lab File: CAR018.D
Acq: 16 Sep 2008 8:18

Tgt Ion: 78 Resp: 198657

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.6	28.0
50	17.5	16.2	24.4

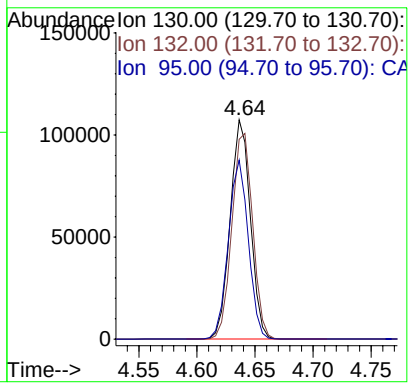


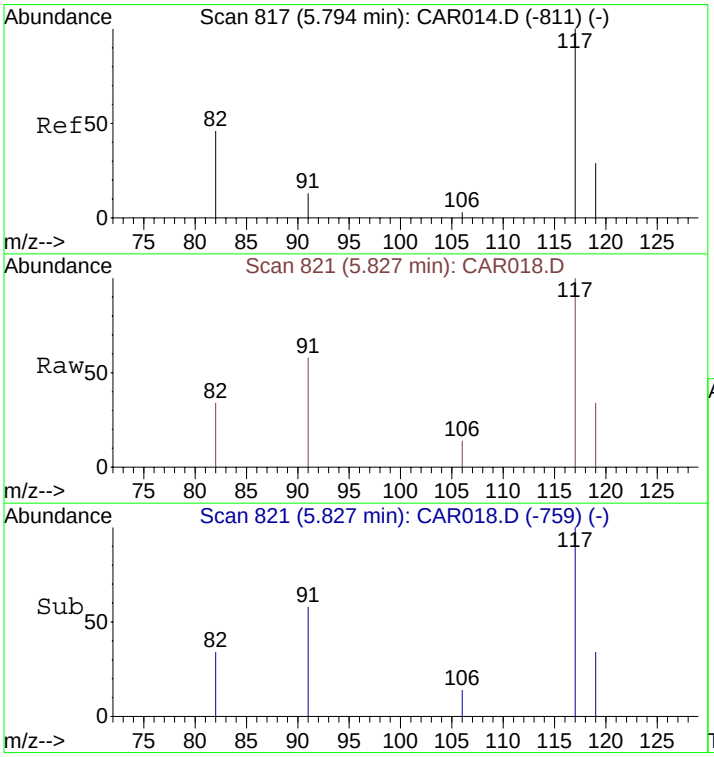


#11
Trichloroethene
Concen: 568.65 ppbv
RT: 4.64 min Scan# 574
Delta R.T. -0.06 min
Lab File: CAR018.D
Acq: 16 Sep 2008 8:18

Tgt Ion:130 Resp: 129578

Ion	Ratio	Lower	Upper
130	100		
132	96.5	73.8	110.6
95	80.7	72.5	108.7

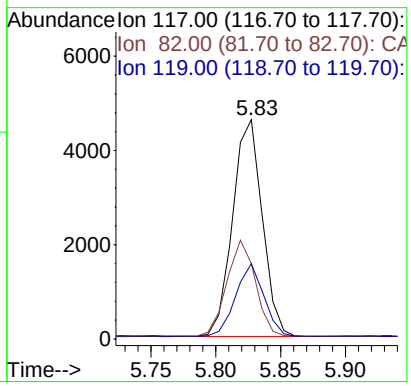


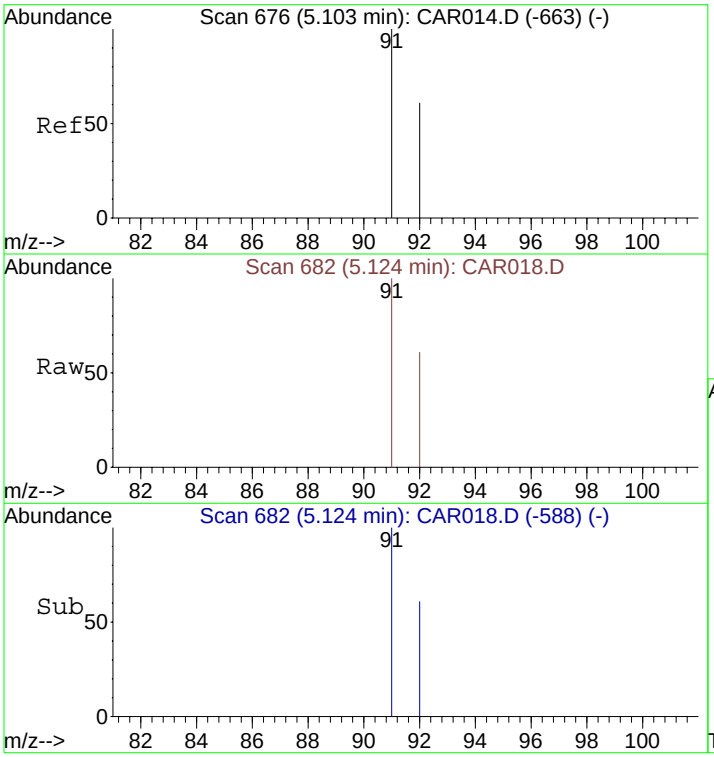


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.83 min Scan# 821
Delta R.T. -0.10 min
Lab File: CAR018.D
Acq: 16 Sep 2008 8:18

Tgt Ion:117 Resp: 7329

Ion	Ratio	Lower	Upper
117	100		
82	42.9	38.3	57.5
119	31.9	26.0	39.0

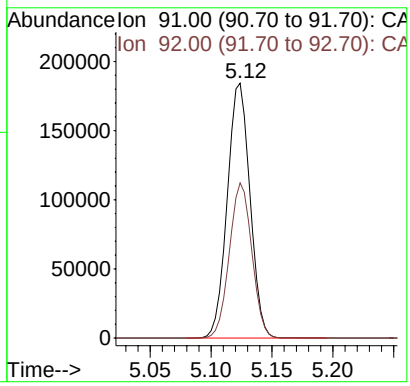


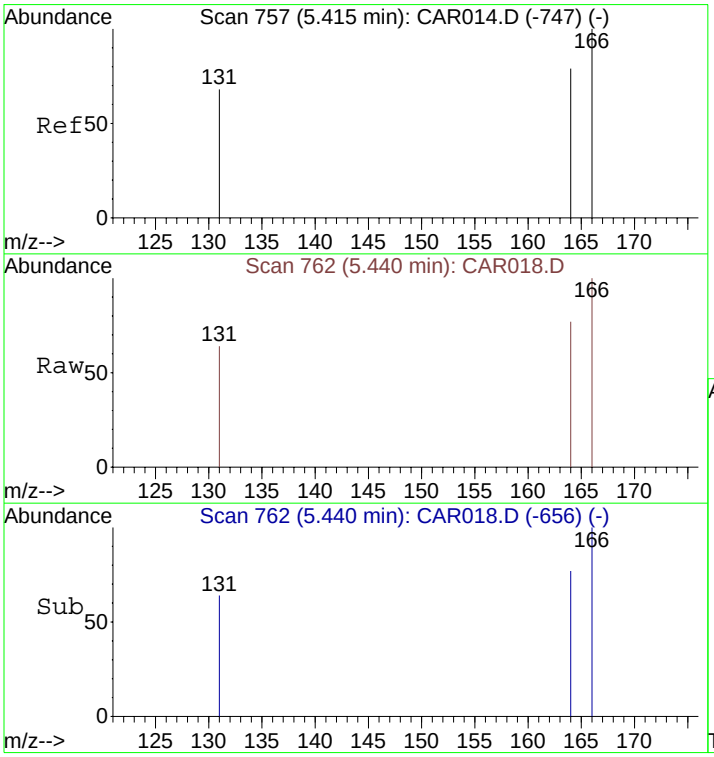


#13
Toluene
Concen: 535.93 ppbv
RT: 5.12 min Scan# 682
Delta R.T. -0.09 min
Lab File: CAR018.D
Acq: 16 Sep 2008 8:18

Tgt Ion: 91 Resp: 238548

Ion	Ratio	Lower	Upper
91	100		
92	60.2	48.2	72.2

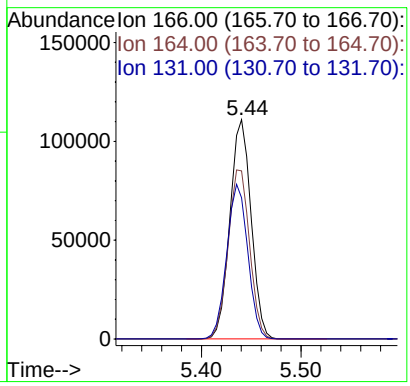


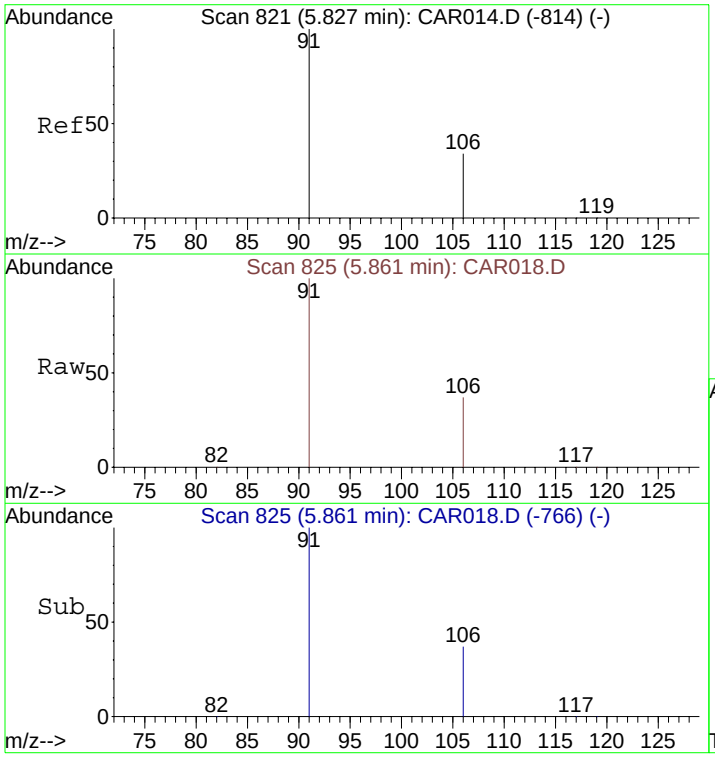


#14
Tetrachloroethene
Concen: 611.42 ppbv
RT: 5.44 min Scan# 762
Delta R.T. -0.10 min
Lab File: CAR018.D
Acq: 16 Sep 2008 8:18

Tgt Ion:166 Resp: 163679

Ion	Ratio	Lower	Upper
166	100		
164	78.6	63.1	94.7
131	70.1	62.9	94.3

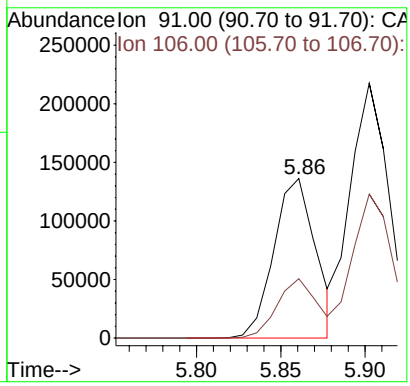


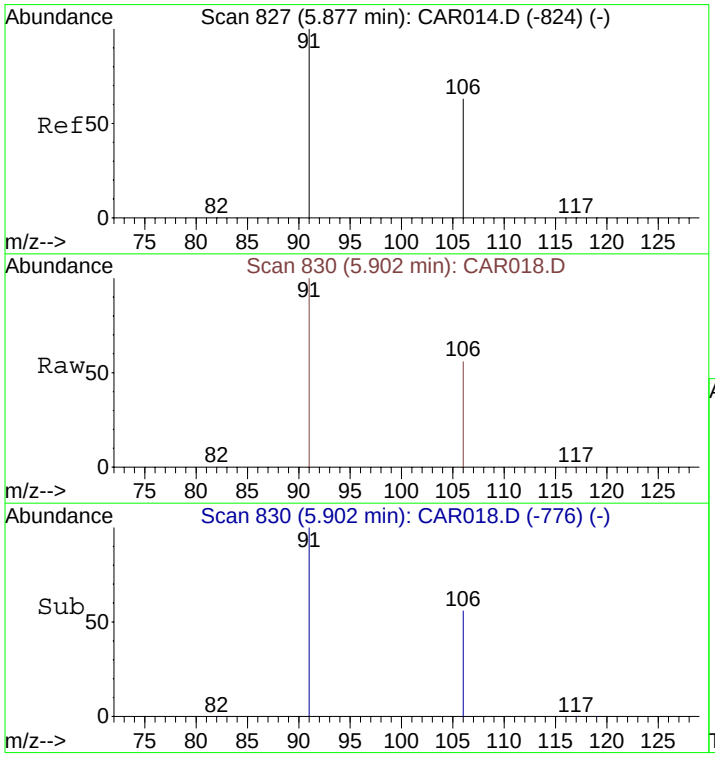


#15
Ethylbenzene
Concen: 455.40 ppbv
RT: 5.86 min Scan# 825
Delta R.T. -0.10 min
Lab File: CAR018.D
Acq: 16 Sep 2008 8:18

Tgt Ion: 91 Resp: 234642

Ion	Ratio	Lower	Upper
91	100		
106	35.7	26.3	39.5

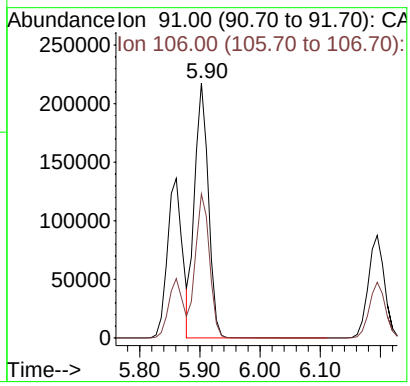


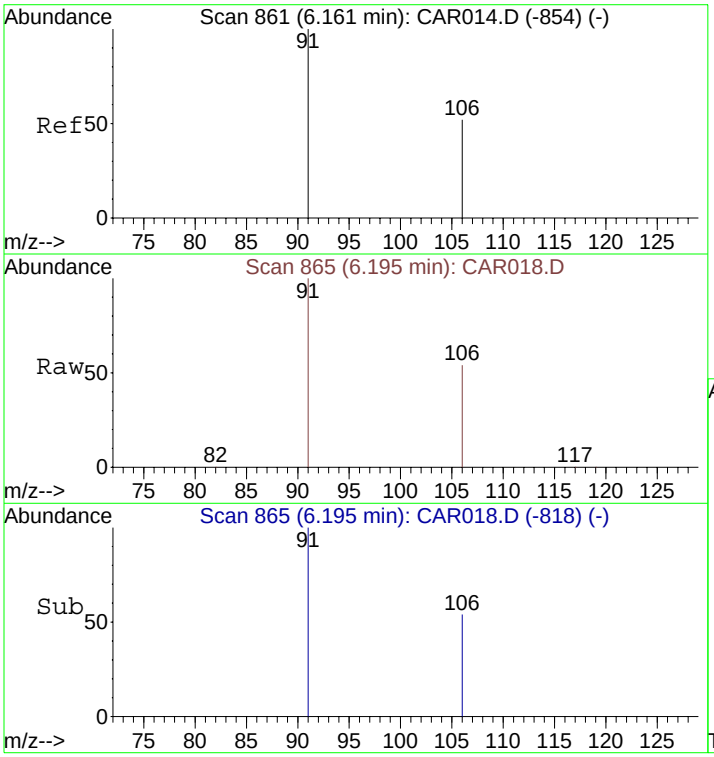


#16
m&p-Xylenes
Concen: 954.68 ppbv
RT: 5.90 min Scan# 830
Delta R.T. -0.11 min
Lab File: CAR018.D
Acq: 16 Sep 2008 8:18

Tgt Ion: 91 Resp: 347067

Ion	Ratio	Lower	Upper
91	100		
106	57.8	41.8	62.8

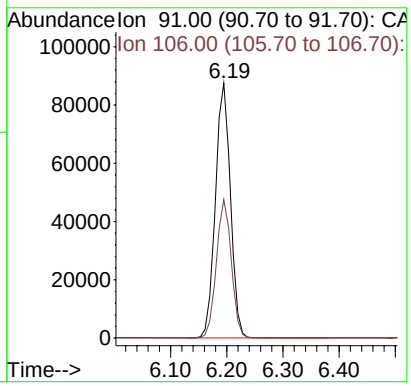




#17
o-Xylene
Concen: 390.43 ppbv
RT: 6.19 min Scan# 865
Delta R.T. -0.11 min
Lab File: CAR018.D
Acq: 16 Sep 2008 8:18

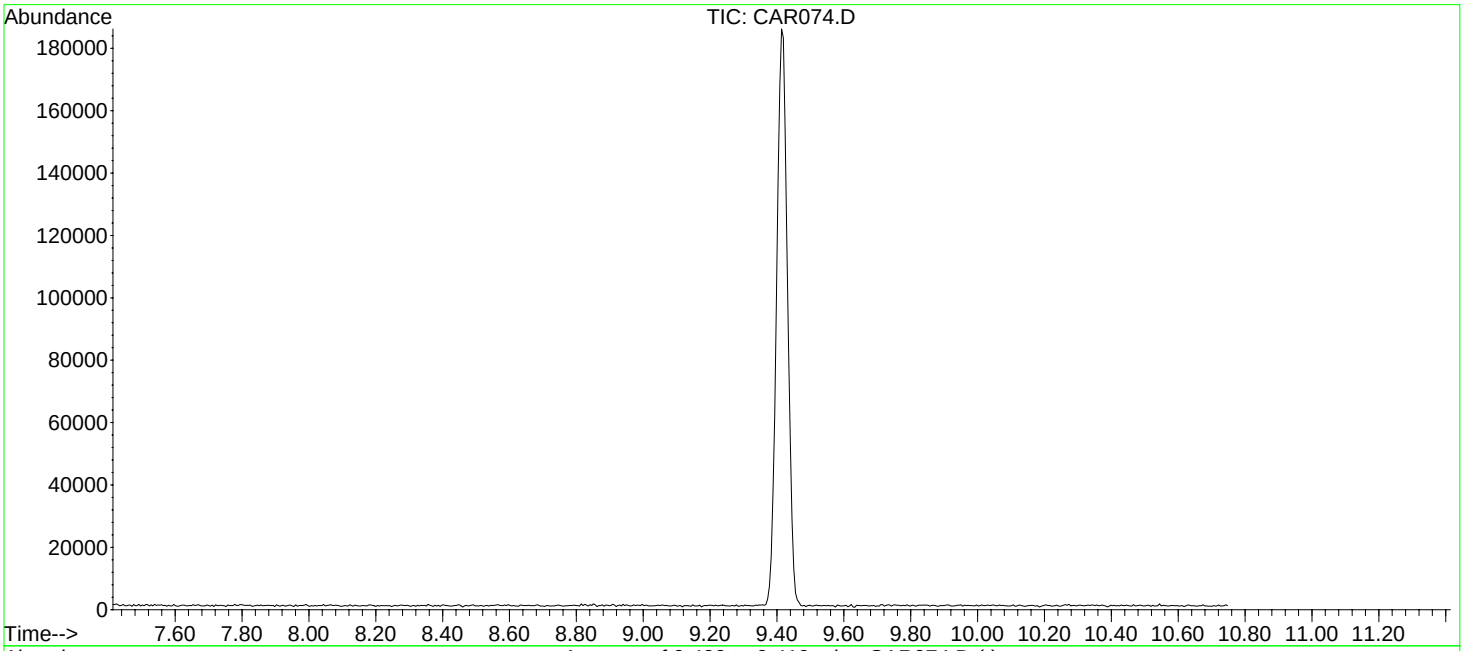
Tgt Ion: 91 Resp: 162395

Ion	Ratio	Lower	Upper
91	100		
106	53.8	38.9	58.3



BFB

Data File : C:\MSDCHEM\1\DATA\20080917\CAR074.D Vial: 1
Acq On : 17 Sep 2008 7:50 Operator: dlm
Sample : BFB Inst : Instrumen
Misc : 5 ml BFB @ 1ppmv Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC



AutoFind: Scans 1023, 1024, 1025; Background Corrected with Scan 1012

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.8	7771	PASS
75	95	30	66	46.2	17284	PASS
95	95	100	100	100.0	37442	PASS
96	95	5	9	6.8	2563	PASS
173	174	0.00	2	0.5	158	PASS
174	95	50	120	86.4	32354	PASS
175	174	4	9	7.9	2544	PASS
176	174	93	101	97.2	31464	PASS
177	176	5	9	6.8	2133	PASS

CAR074.D LOOP20080917.M Tue Sep 30 14:34:45 2008

GC/MS QA-QC Check Report

Tune File: C:\MSDCHEM\1\DATA\20080917\CAR074.D
Tune Time: 17 Sep 2008 7:50

Daily Calibration File: C:\MSDCHEM\1\DATA\20080917\CAR077.D

File	Sample	2053 Internal	6704 Standard	6437 Responses
CAR075.D	STD20080917-1	2457	7994	7029
CAR076.D	STD20080917-2	2101	6830	6616
CAR078.D	STD20080917-4	1847	6185	5988
CAR079.D	STD20080917-5	1893	6046	5880
CAR080.D	STD20080917-6	1904	5972	5805
CAR081.D	STD20080917-ICV	1988	6611	6365
CAR082.D	20080917-MB	1796	5656	5572
CAR083.D	20080917-LB	1866	5931	5711
CAR084.D	20080917-LCS	2085	6892	6500
CAR085.D	51413\F3-SG	1931	5988	5917
CAR086.D	51414\A5-SG	1866	6038	6096
CAR087.D	51415\A6-SG	1882	5979	6009
CAR088.D	51416\A7-SG	2009	6540	6046
CAR089.D	51417\A8-SG	1896	5821	5540
CAR090.D	51418\A9-SG	1796	5707	5561
CAR091.D	51419\A10-SG	1865	5689	5498
CAR092.D	51420\B12-SG	1859	5524	5656
CAR093.D	51421\C9-SG	1791	5640	5461
CAR094.D	51422\B9-SG	1963	6151	5943

CAR095.D	51423\B8-SG	1915	5979	5904
CAR096.D	51424\B6-SG	1910	5880	5772
CAR097.D	51425\D6-SG	1797	5816	5749
CAR098.D	51426\E5-SG	1789	5678	5372
CAR099.D	51427\E9-SG	1847	5643	5525
CAR100.D	51429\C2-SG	1778	5507	5257
CAR101.D	51430\LA1-SG	1748	5465	5510
CAR102.D	51431\LA2-SG	1755	5569	5214
CAR103.D	51432\LA3-SG	1722	5343	5133
CAR104.D	51433\LA4-SG	1700	5376	5038
CAR105.D	51434\LA5-SG	1683	5292	4991
CAR106.D	51435\LB4-SG	1705	5138	4966
CAR107.D	51436\LB3-SG	1687	5074	5050
CAR108.D	51437\LB2-SG	2125	6730	6206
CAR109.D	51438\LB1-SG	1723	5048	4974
CAR110.D	51440\LC2-SG	1677	5171	4851
CAR111.D	51441\LC3-SG	1675	5065	4961
CAR112.D	51442\LC4-SG	1726	5107	4877
CAR113.D	51429\C2-SG Rep	1644	4959	4879
CAR114.D	51427\E9-SG	1634	5093	5234
CAR115.D	51429\C2-SG	1727	5186	5031
CAR116.D	20080917-LCS-2	1872	5776	5558

t - fails 24hr time check * - fails criteria

Created: Tue Sep 30 14:51:43 2008 Instrument

Response Factor Report Instrumen

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 07:49:13 2008
Response via : Initial Calibration

Calibration Files
10A =CAR075.D 1000 =CAR076.D 500 =CAR077.D
50 =CAR078.D 5 =CAR079.D 0.5 =CAR080.D

	Compound	10A	1000	500	50	5	0.5	Avg	%RSD
1)	Bromochloromethane	----------ISTD----------							
2)	Vinyl Chloride	0.629	0.561	0.543	0.571	0.565		0.574	5.66
3)	1,1-Dichloroeth	1.045	0.959	0.922	0.950	0.877	0.861	0.936	7.08
4)	Methyl tert-But	1.440	1.305	1.232	1.328	1.173	1.261	1.290	7.12
5)	trans-1,2-Dichl	0.922	0.894	0.858	0.898	0.834	0.893	0.883	3.59
6)	1,1-Dichloroeth	1.194	1.174	1.148	1.232	0.987	0.924	1.110	11.19
7)	cis-1,2-Dichlor	1.066	1.034	0.805	0.808	0.746	0.735	0.866	16.86
8)	1,1,1-Trichloro	1.392	1.388	1.325	1.366	1.269	1.303	1.340	3.71
9)	1,4-Difluorobenzene	----------ISTD----------							
10)	Benzene	0.464	0.519	0.497	0.523	0.537	0.938	0.580	30.58
11)	Trichloroethene	0.347	0.350	0.332	0.317	0.315	0.385	0.341	7.65
12)	Chlorobenzene-d5	----------ISTD----------							
13)	Toluene	0.682	0.764	0.724	0.669	0.690	0.889	0.736	11.18
14)	Tetrachloroethe	0.475	0.434	0.412	0.390	0.389	0.434	0.422	7.72
15)	Ethylbenzene	0.841	0.957	0.899	0.792	0.807	0.927	0.871	7.68
16)	m&p-Xylenes	0.525	0.730	0.680	0.590	0.512	0.706	0.624	15.14
17)	o-Xylene	0.712	0.734	0.682	0.597	0.564	0.851	0.690	14.93

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR075.D Vial: 1
Acq On : 17 Sep 2008 8:17 Operator: dlm
Sample : STD20080917-1 Inst : Instrumen
Misc : 10 ppmv ICAL std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 30 07:30:38 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 08:59:04 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	2457	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	7994	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.83	117	7029	10.00 ppbv	0.03

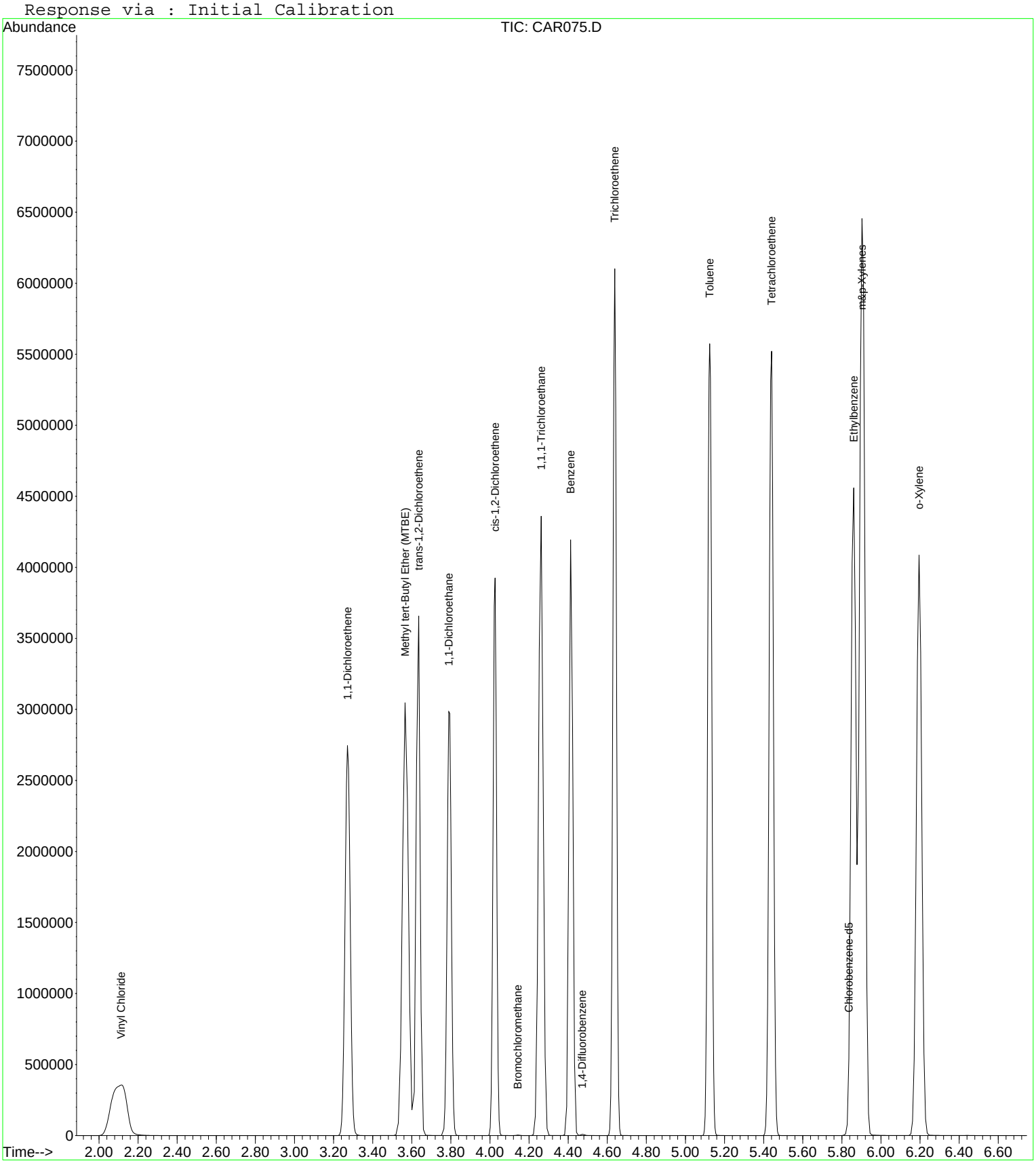
Target Compounds					Qvalue
2) Vinyl Chloride	2.11	62	1545390	10887.68 ppbv #	53
3) 1,1-Dichloroethene	3.27	61	2568606	10717.78 ppbv	93
4) Methyl tert-Butyl Ether (M	3.57	73	3538276	10863.75 ppbv #	16
5) trans-1,2-Dichloroethene	3.64	61	2266213	10347.20 ppbv	93
6) 1,1-Dichloroethane	3.79	63	2934614	10189.82 ppbv	95
7) cis-1,2-Dichloroethene	4.02	61	2618342	11006.25 ppbv	99
8) 1,1,1-Trichloroethane	4.26	97	3421322	10174.26 ppbv	96
10) Benzene	4.41	78	3708011	9401.95 ppbv	94
11) Trichloroethene	4.64	130	2775844	10122.80 ppbv	92
13) Toluene	5.12	91	4794520	9432.16 ppbv	89
14) Tetrachloroethene	5.44	166	3340586	10793.25 ppbv	97
15) Ethylbenzene	5.86	91	5914642	9359.44 ppbv #	84
16) m&p-Xylenes	5.90	91	7382003m	16276.26 ppbv	
17) o-Xylene	6.19	91	5007240	10043.42 ppbv	87

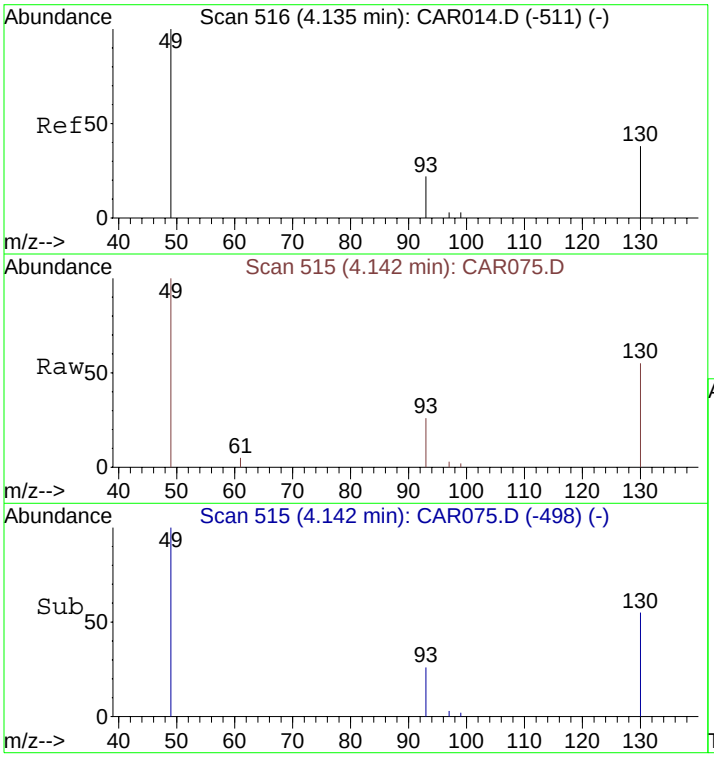
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR075.D Vial: 1
Acq On : 17 Sep 2008 8:17 Operator: dlm
Sample : STD20080917-1 Inst : Instrumen
Misc : 10 ppmv ICAL std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 30 7:34 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:18:47 2008
Response via : Initial Calibration

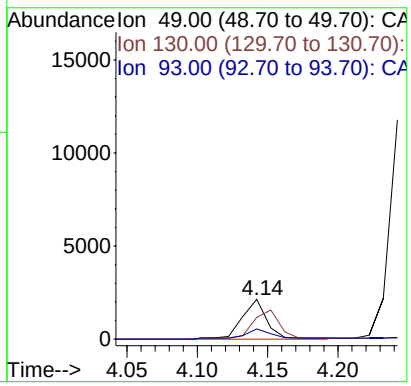


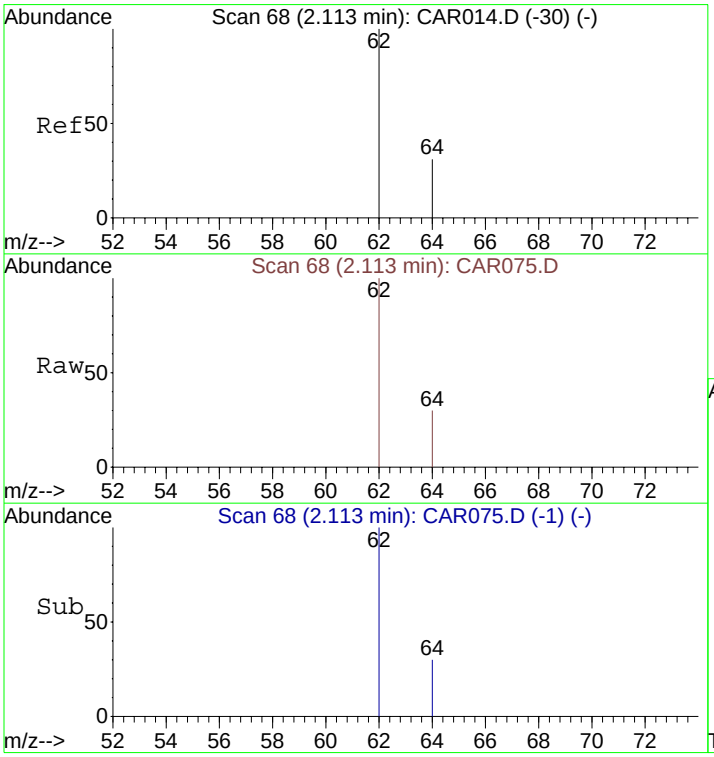


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 515
Delta R.T. 0.01 min
Lab File: CAR075.D
Acq: 17 Sep 2008 8:17

Tgt Ion: 49 Resp: 2457

Ion	Ratio	Lower	Upper
49	100		
130	80.4	65.1	97.7
93	31.0	33.8	50.6#

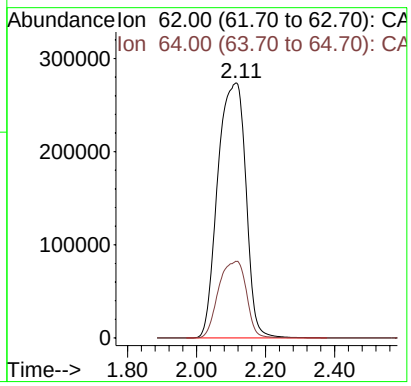


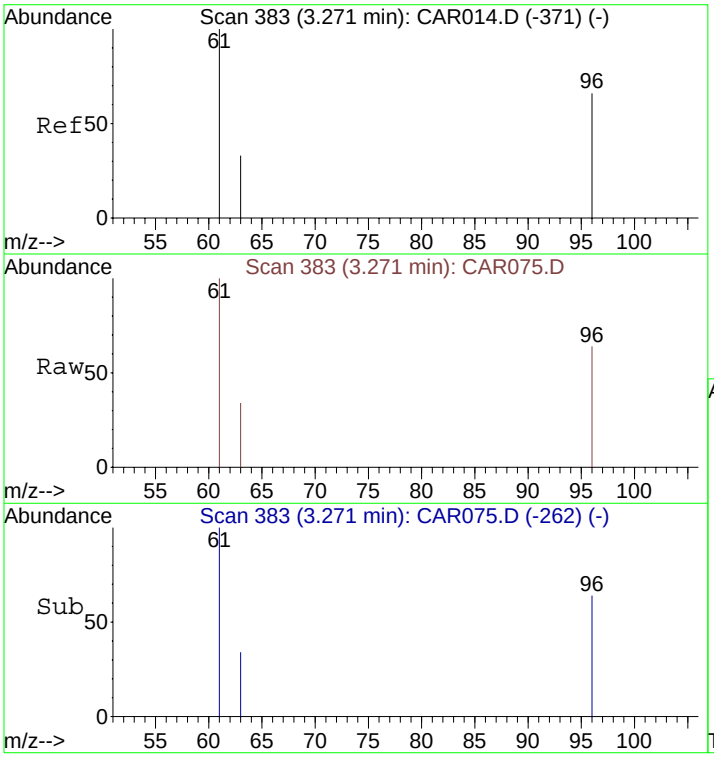


#2
Vinyl Chloride
Concen: 10887.68 ppbv
RT: 2.11 min Scan# 68
Delta R.T. 0.00 min
Lab File: CAR075.D
Acq: 17 Sep 2008 8:17

Tgt Ion: 62 Resp: 1545390

Ion	Ratio	Lower	Upper
62	100		
64	29.8	9.4	14.2#

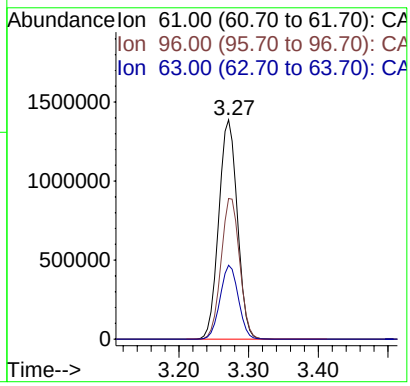


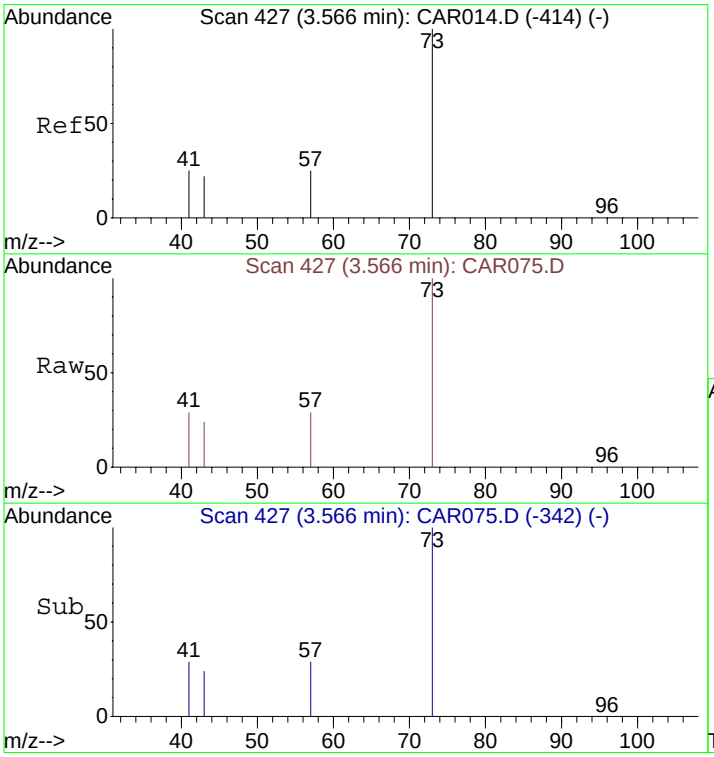


#3
1,1-Dichloroethene
Concen: 10717.78 ppbv
RT: 3.27 min Scan# 383
Delta R.T. 0.00 min
Lab File: CAR075.D
Acq: 17 Sep 2008 8:17

Tgt Ion: 61 Resp: 2568606

Ion	Ratio	Lower	Upper
61	100		
96	64.1	45.7	68.5
63	33.0	25.0	37.4

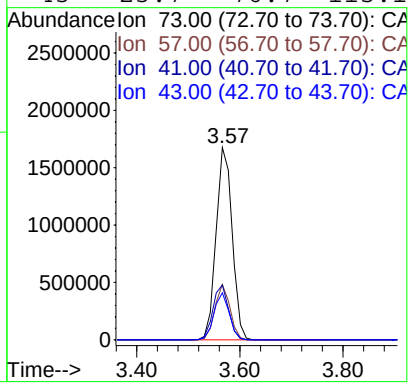


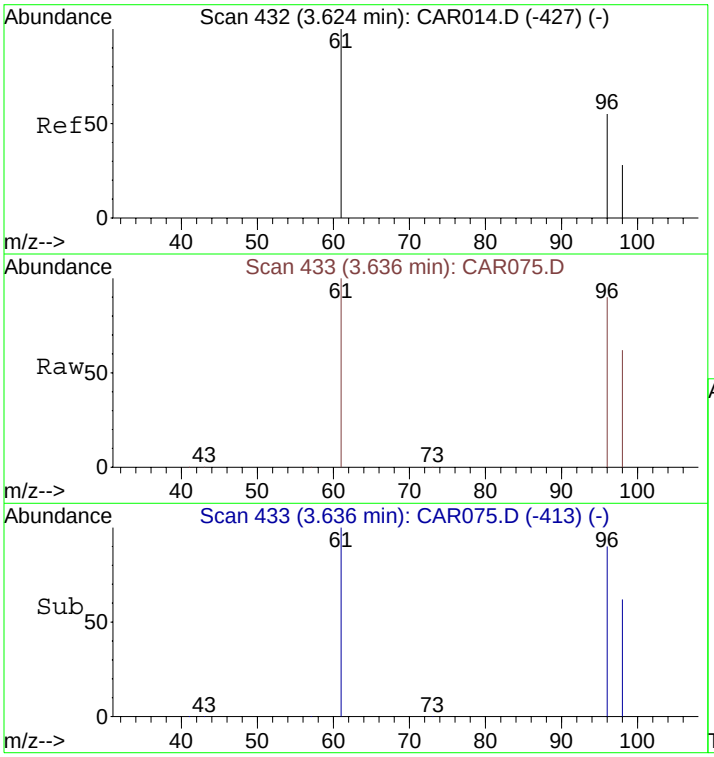


#4
Methyl tert-Butyl Ether (MTBE)
Concen: 10863.75 ppbv
RT: 3.57 min Scan# 427
Delta R.T. 0.00 min
Lab File: CAR075.D
Acq: 17 Sep 2008 8:17

Tgt Ion: 73 Resp: 3538276

Ion	Ratio	Lower	Upper
73	100		
57	27.8	32.6	49.0#
41	28.0	139.4	209.2#
43	23.7	76.7	115.1#

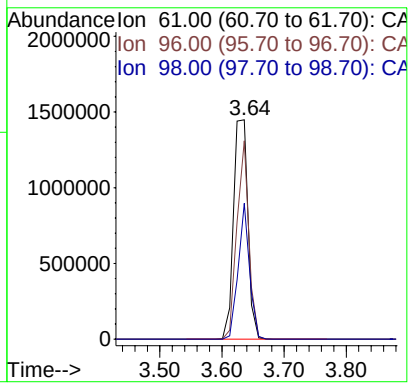


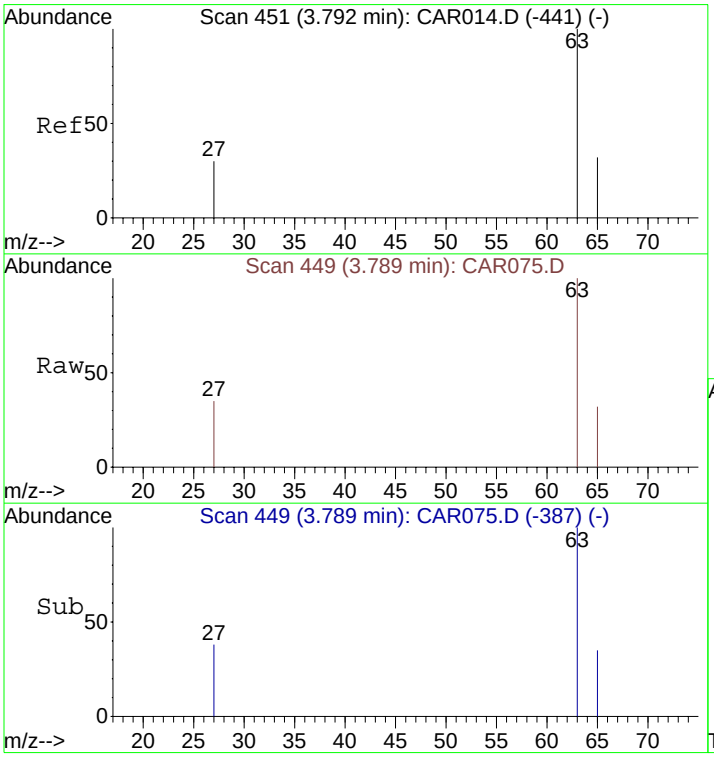


#5
trans-1,2-Dichloroethene
Concen: 10347.20 ppbv
RT: 3.64 min Scan# 433
Delta R.T. 0.01 min
Lab File: CAR075.D
Acq: 17 Sep 2008 8:17

Tgt Ion: 61 Resp: 2266213

Ion	Ratio	Lower	Upper
61	100		
96	74.7	55.0	82.4
98	48.8	35.6	53.4

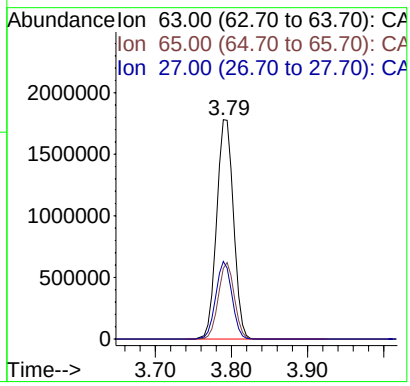


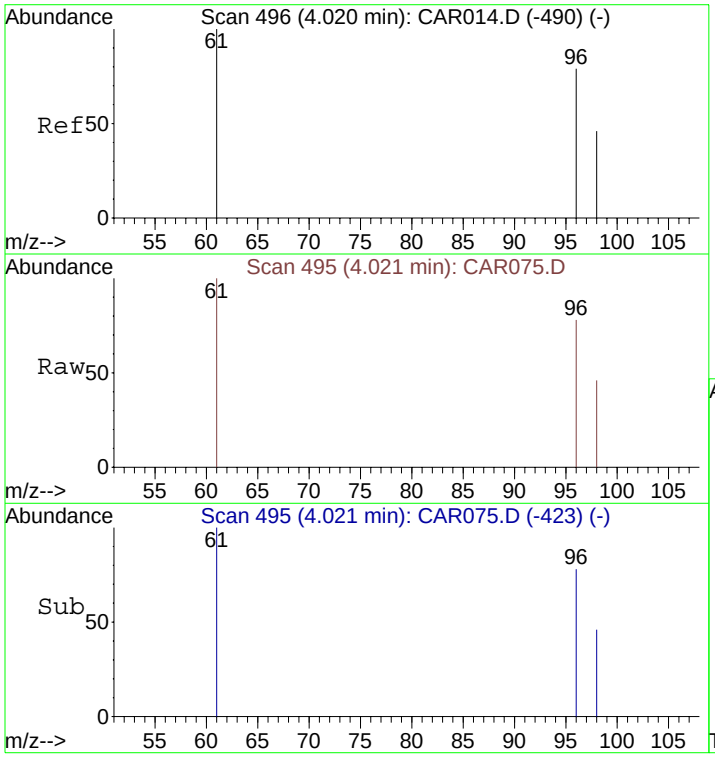


#6
1,1-Dichloroethane
Concen: 10189.82 ppbv
RT: 3.79 min Scan# 449
Delta R.T. -0.00 min
Lab File: CAR075.D
Acq: 17 Sep 2008 8:17

Tgt Ion: 63 Resp: 2934614

Ion	Ratio	Lower	Upper
63	100		
65	33.8	23.5	35.3
27	34.7	26.7	40.1

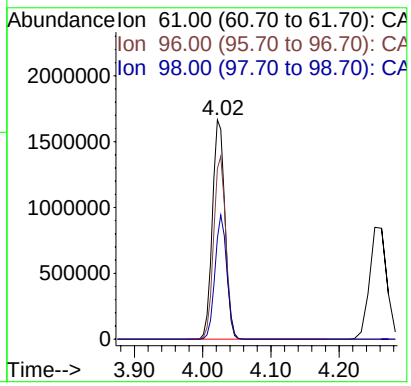


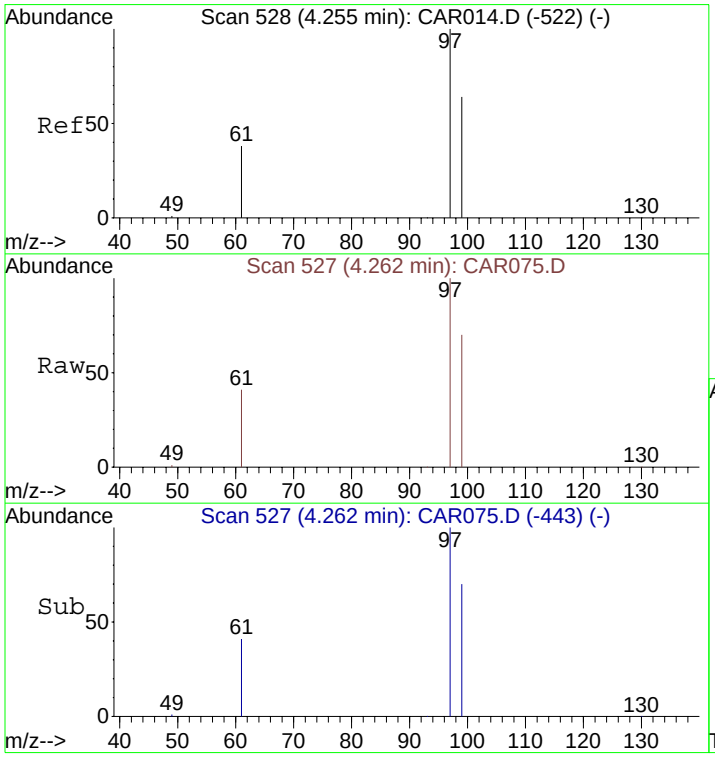


#7
cis-1,2-Dichloroethene
Concen: 11006.25 ppbv
RT: 4.02 min Scan# 495
Delta R.T. 0.00 min
Lab File: CAR075.D
Acq: 17 Sep 2008 8:17

Tgt Ion: 61 Resp: 2618342

Ion	Ratio	Lower	Upper
61	100		
96	68.4	56.0	84.0
98	45.1	36.2	54.4

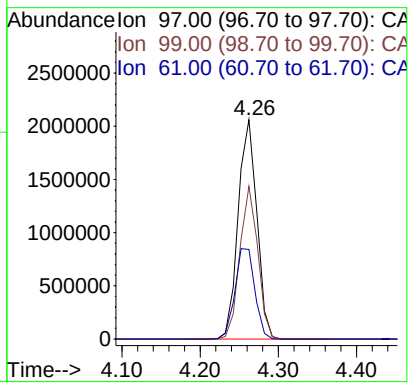


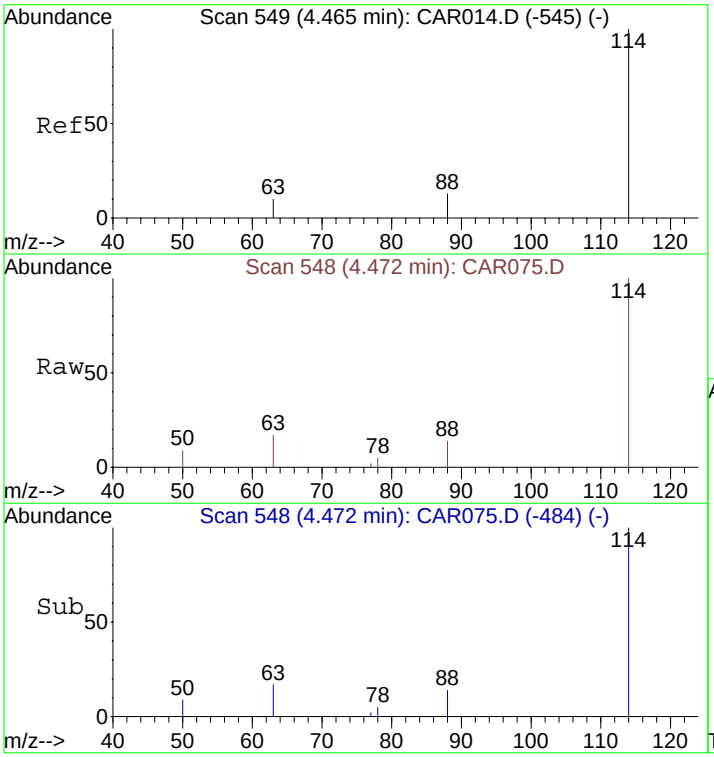


#8
1,1,1-Trichloroethane
Concen: 10174.26 ppbv
RT: 4.26 min Scan# 527
Delta R.T. 0.01 min
Lab File: CAR075.D
Acq: 17 Sep 2008 8:17

Tgt Ion: 97 Resp: 3421322

Ion	Ratio	Lower	Upper
97	100		
99	67.1	51.8	77.8
61	43.7	32.1	48.1

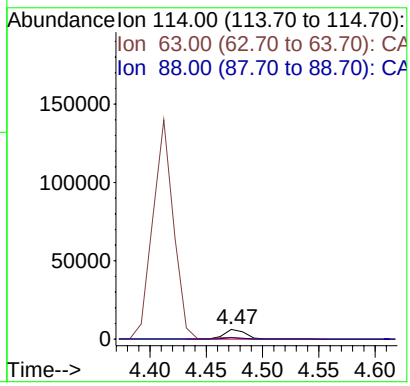


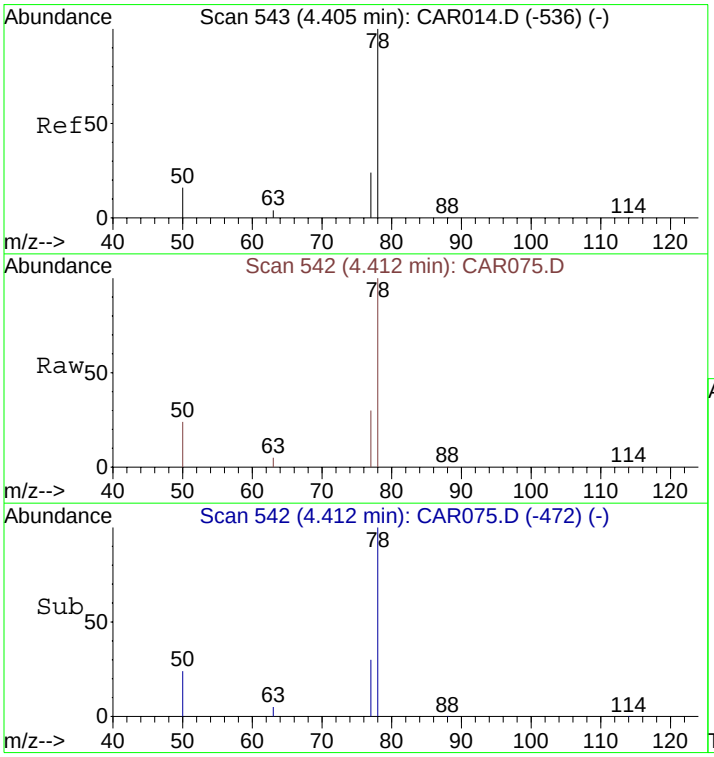


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 548
Delta R.T. 0.01 min
Lab File: CAR075.D
Acq: 17 Sep 2008 8:17

Tgt Ion:114 Resp: 7994

Ion	Ratio	Lower	Upper
114	100		
63	0.0	15.8	23.8#
88	16.3	12.2	18.2

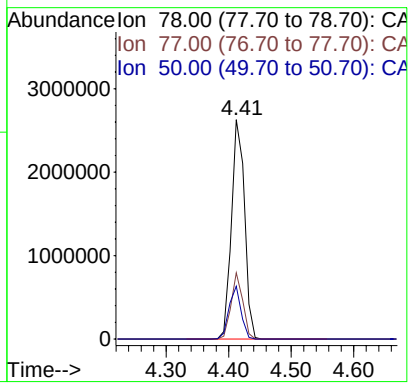


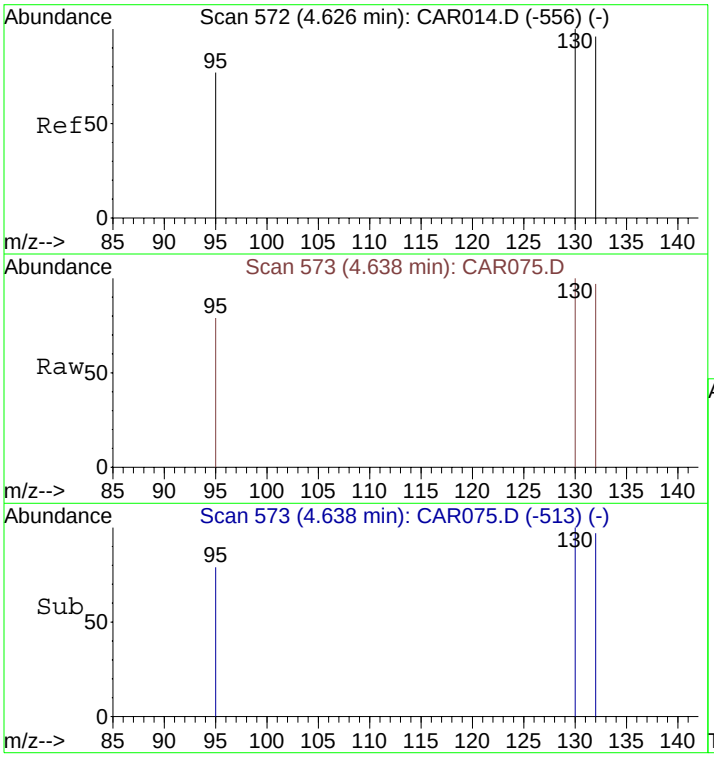


#10
Benzene
Concen: 9401.95 ppbv
RT: 4.41 min Scan# 542
Delta R.T. 0.01 min
Lab File: CAR075.D
Acq: 17 Sep 2008 8:17

Tgt Ion: 78 Resp: 3708011

Ion	Ratio	Lower	Upper
78	100		
77	27.1	18.6	28.0
50	22.6	16.2	24.4

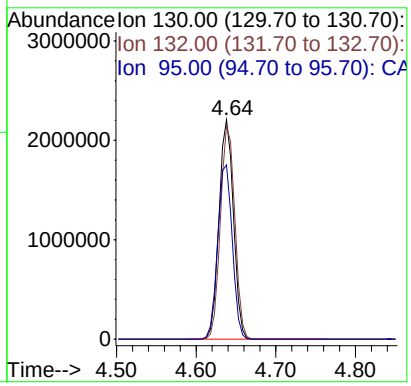


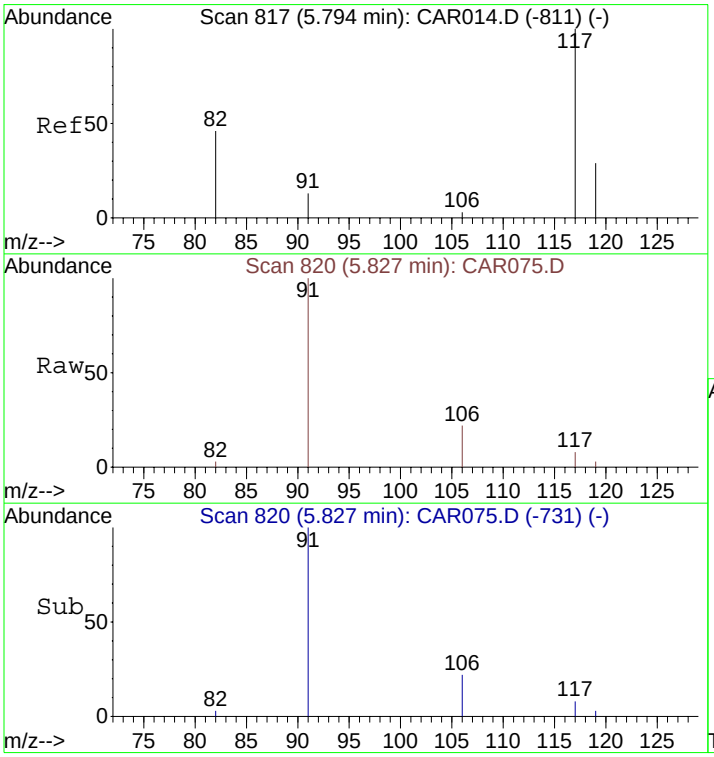


#11
Trichloroethene
Concen: 10122.80 ppbv
RT: 4.64 min Scan# 573
Delta R.T. 0.01 min
Lab File: CAR075.D
Acq: 17 Sep 2008 8:17

Tgt Ion:130 Resp: 2775844

Ion	Ratio	Lower	Upper
130	100		
132	97.5	73.8	110.6
95	80.8	72.5	108.7

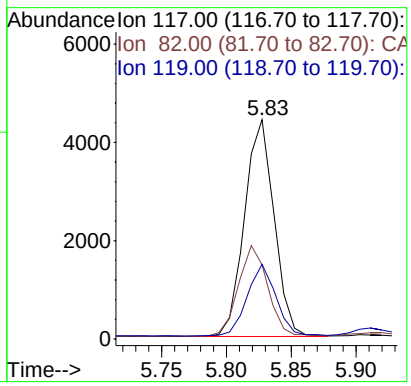


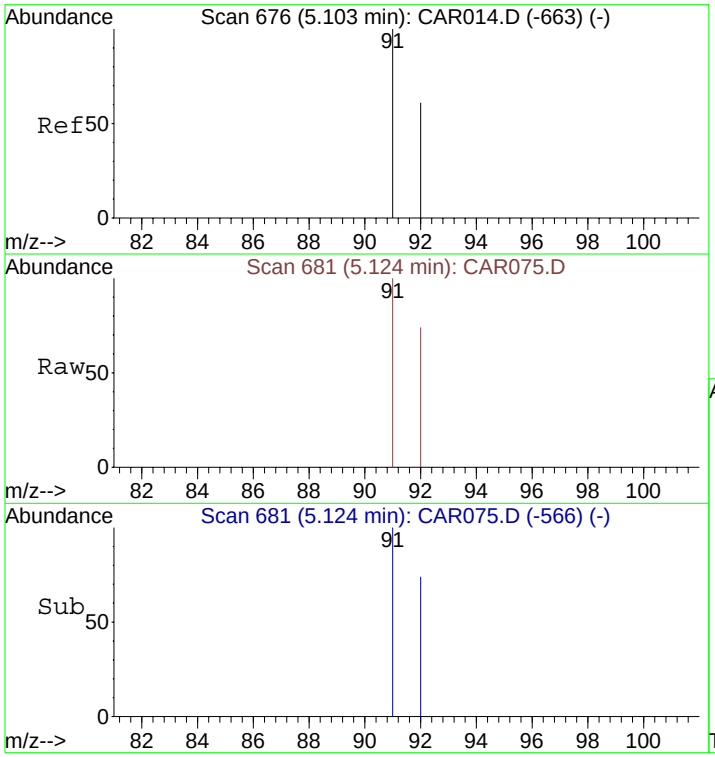


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.83 min Scan# 820
Delta R.T. 0.03 min
Lab File: CAR075.D
Acq: 17 Sep 2008 8:17

Tgt Ion:117 Resp: 7029

Ion	Ratio	Lower	Upper
117	100		
82	41.8	38.3	57.5
119	32.2	26.0	39.0

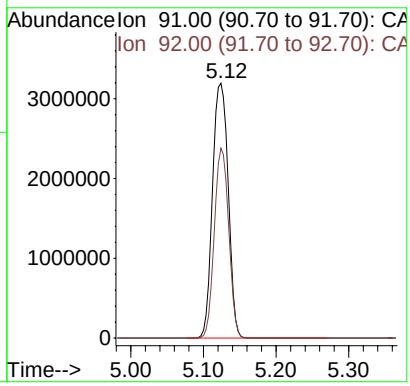


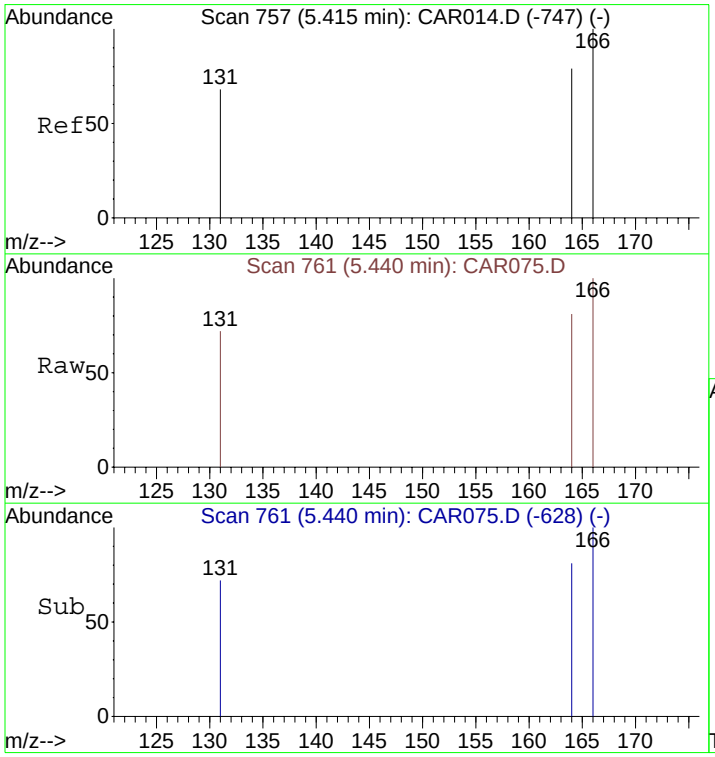


#13
Toluene
Concen: 9432.16 ppbv
RT: 5.12 min Scan# 681
Delta R.T. 0.02 min
Lab File: CAR075.D
Acq: 17 Sep 2008 8:17

Tgt Ion: 91 Resp: 4794520

Ion	Ratio	Lower	Upper
91	100		
92	68.4	48.2	72.2

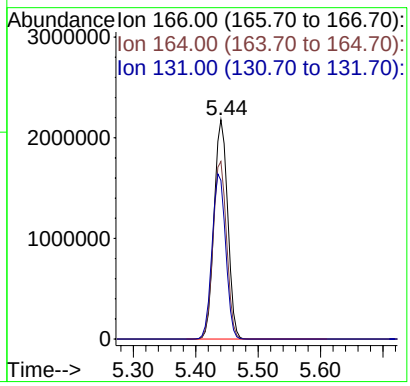


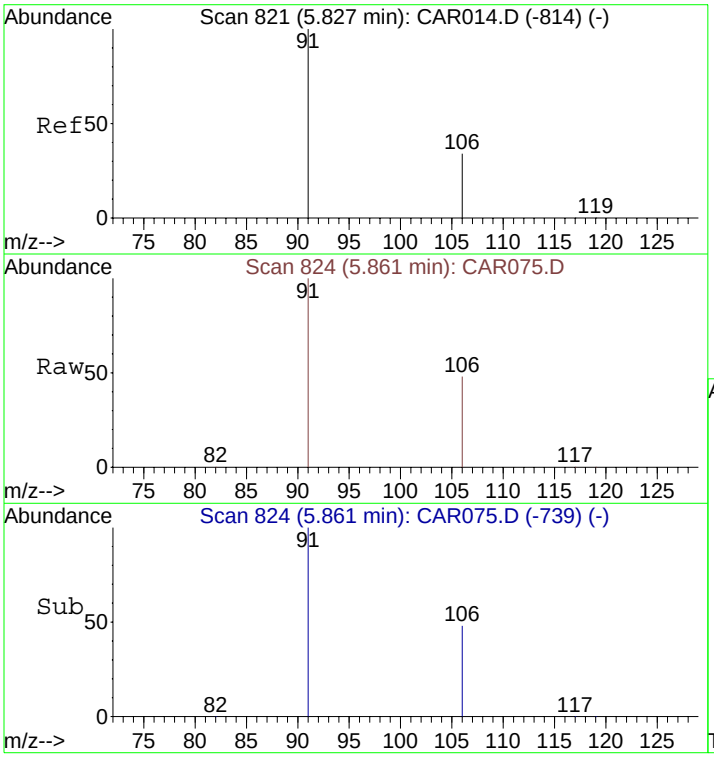


#14
Tetrachloroethene
Concen: 10793.25 ppbv
RT: 5.44 min Scan# 761
Delta R.T. 0.03 min
Lab File: CAR075.D
Acq: 17 Sep 2008 8:17

Tgt Ion:166 Resp: 3340586

Ion	Ratio	Lower	Upper
166	100		
164	79.4	63.1	94.7
131	74.2	62.9	94.3

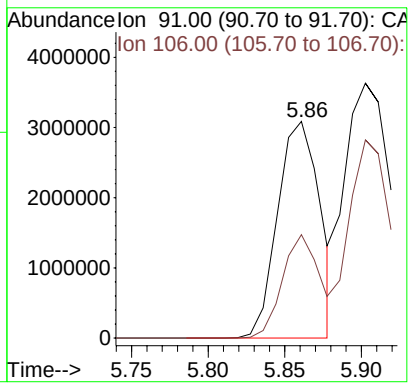


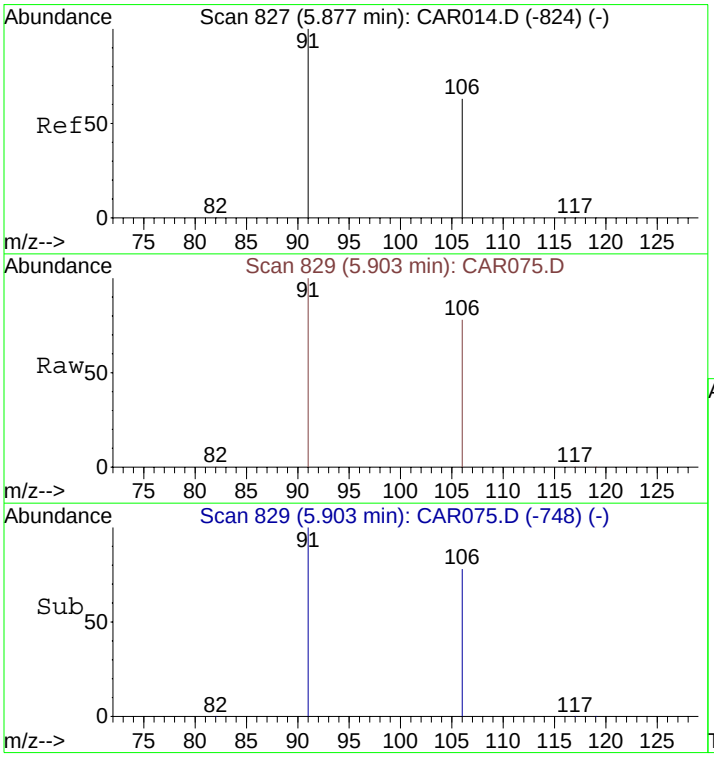


#15
Ethylbenzene
Concen: 9359.44 ppbv
RT: 5.86 min Scan# 824
Delta R.T. 0.03 min
Lab File: CAR075.D
Acq: 17 Sep 2008 8:17

Tgt Ion: 91 Resp: 5914642

Ion	Ratio	Lower	Upper
91	100		
106	42.0	26.3	39.5#

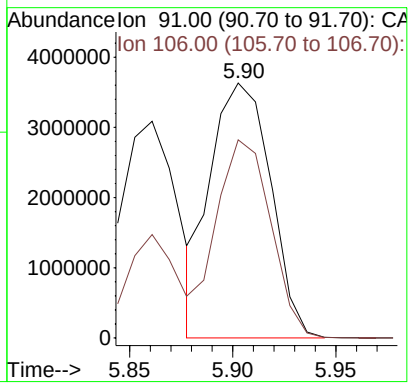


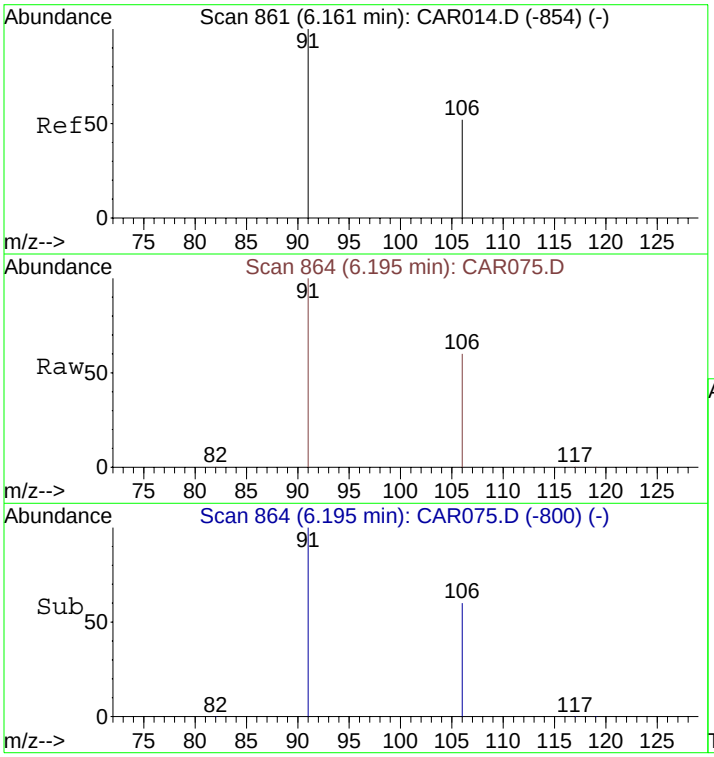


#16
m&p-Xylenes
Concen: 16276.26 ppbv m
RT: 5.90 min Scan# 829
Delta R.T. 0.03 min
Lab File: CAR075.D
Acq: 17 Sep 2008 8:17

Tgt Ion: 91 Resp: 7382003

Ion	Ratio	Lower	Upper
91	100		
106	70.6	41.8	62.8#

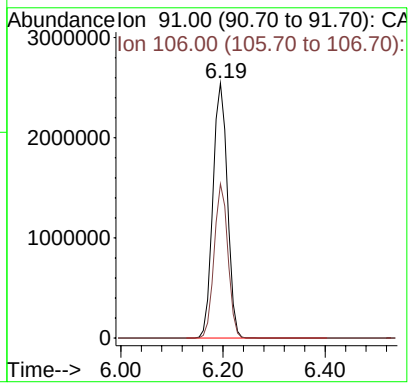




#17
o-Xylene
Concen: 10043.42 ppbv
RT: 6.19 min Scan# 864
Delta R.T. 0.03 min
Lab File: CAR075.D
Acq: 17 Sep 2008 8:17

Tgt Ion: 91 Resp: 5007240

Ion	Ratio	Lower	Upper
91	100		
106	57.5	38.9	58.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR076.D Vial: 1
Acq On : 17 Sep 2008 8:28 Operator: dlm
Sample : STD20080917-2 Inst : Instrumen
Misc : 1000 ppbv ICAL std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 30 07:30:54 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 08:59:04 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.14	49	2101	10.00	ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	6830	10.00	ppbv	0.02
12) Chlorobenzene-d5	5.85	117	6616	10.00	ppbv	0.06

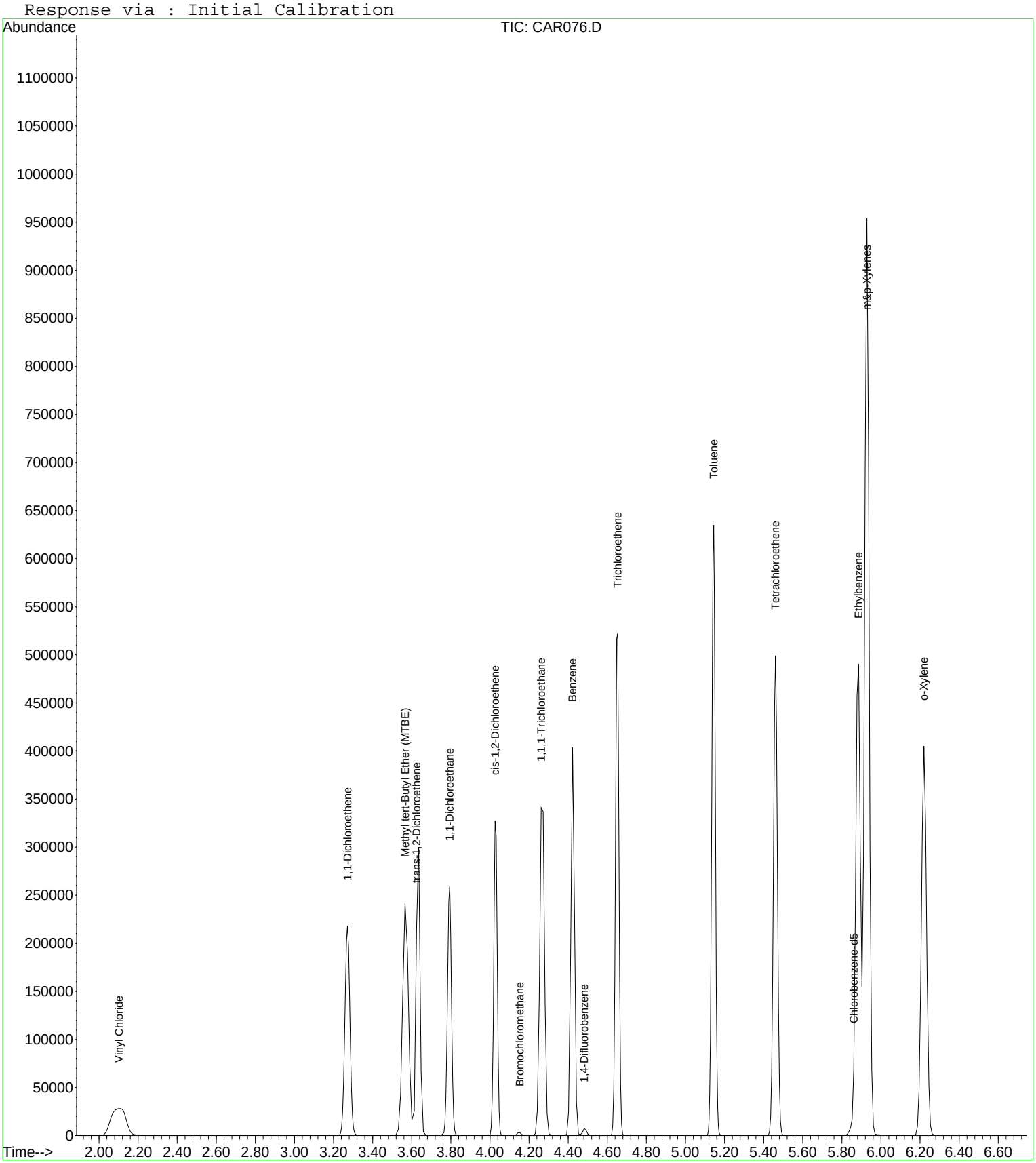
Target Compounds						Qvalue
2) Vinyl Chloride	2.10	62	117833	970.83	ppbv #	55
3) 1,1-Dichloroethene	3.27	61	201403	982.77	ppbv	95
4) Methyl tert-Butyl Ether (M	3.57	73	274155	984.38	ppbv #	15
5) trans-1,2-Dichloroethene	3.62	61	187726	1002.36	ppbv	95
6) 1,1-Dichloroethane	3.79	63	246701	1001.76	ppbv	96
7) cis-1,2-Dichloroethene	4.03	61	217174	1067.58	ppbv	97
8) 1,1,1-Trichloroethane	4.27	97	291611	1014.13	ppbv	99
10) Benzene	4.42	78	354430	1051.84	ppbv	99
11) Trichloroethene	4.65	130	239232	1021.10	ppbv	93
13) Toluene	5.14	91	505160	1055.83	ppbv	100
14) Tetrachloroethene	5.46	166	287251	986.03	ppbv	97
15) Ethylbenzene	5.89	91	632882	1064.00	ppbv	96
16) m&p-Xylenes	5.93	91	966520	2264.07	ppbv	93
17) o-Xylene	6.22	91	485481	1034.55	ppbv	93

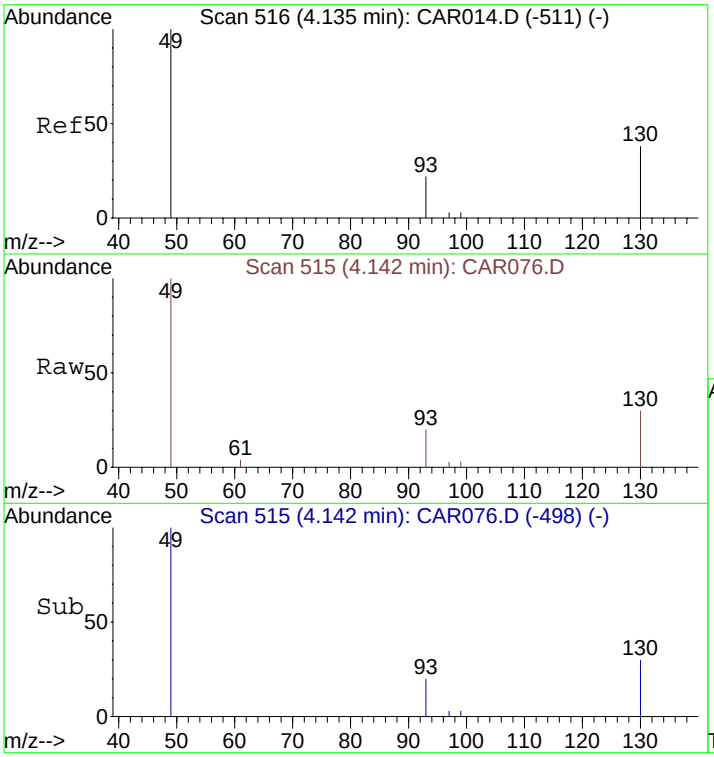
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR076.D Vial: 1
Acq On : 17 Sep 2008 8:28 Operator: dlm
Sample : STD20080917-2 Inst : Instrumen
Misc : 1000 ppbv ICAL std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 30 7:30 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:18:47 2008
Response via : Initial Calibration

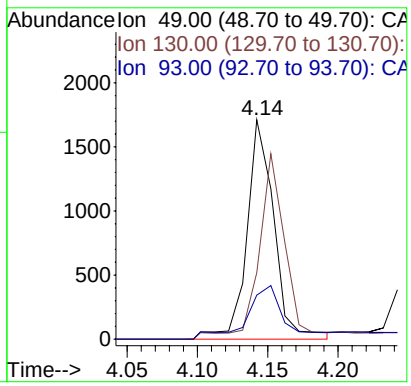


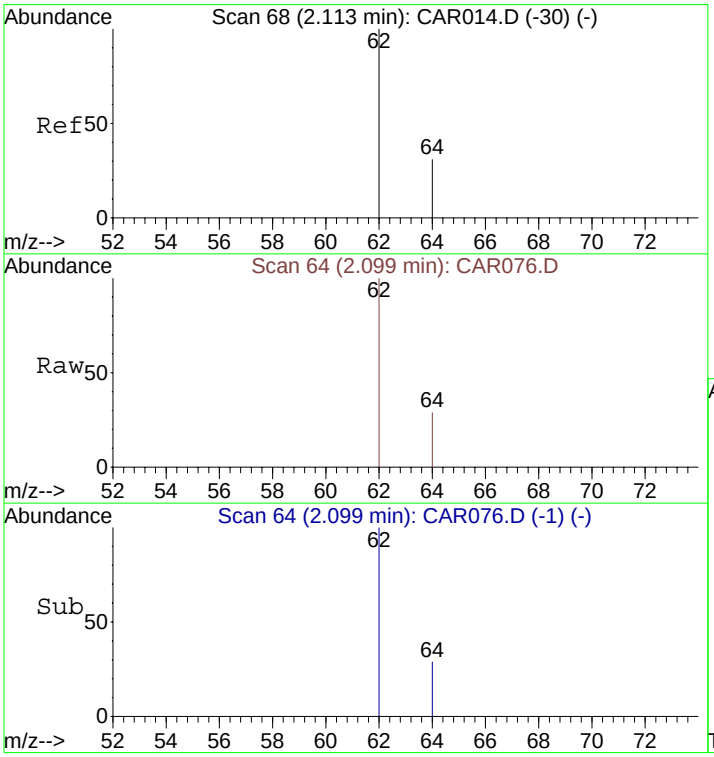


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 515
Delta R.T. 0.01 min
Lab File: CAR076.D
Acq: 17 Sep 2008 8:28

Tgt Ion: 49 Resp: 2101

Ion	Ratio	Lower	Upper
49	100		
130	81.7	65.1	97.7
93	32.2	33.8	50.6#

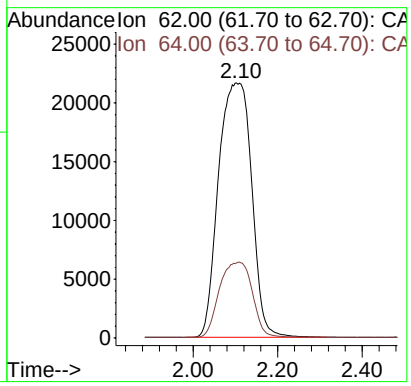


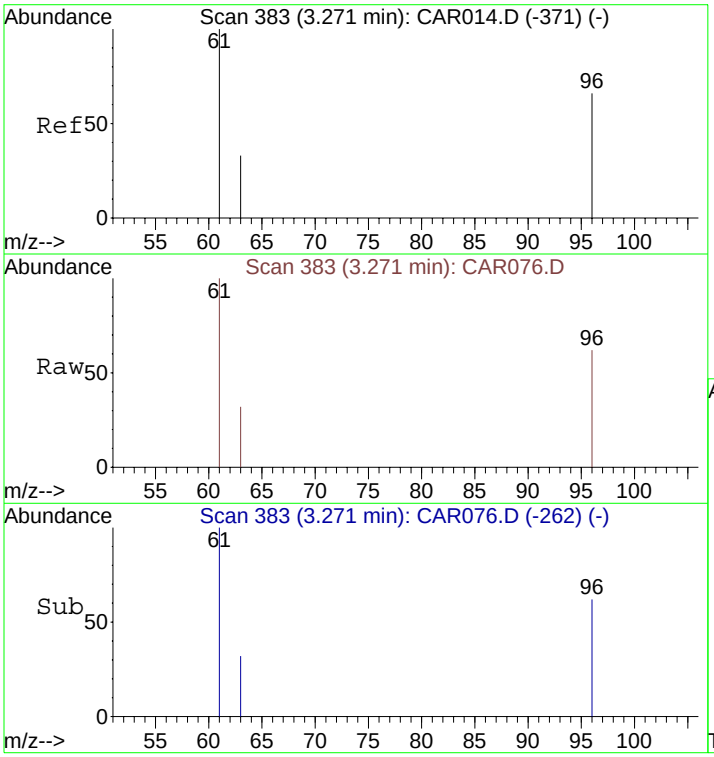


#2
Vinyl Chloride
Concen: 970.83 ppbv
RT: 2.10 min Scan# 64
Delta R.T. -0.01 min
Lab File: CAR076.D
Acq: 17 Sep 2008 8:28

Tgt Ion: 62 Resp: 117833

Ion	Ratio	Lower	Upper
62	100		
64	29.3	9.4	14.2#

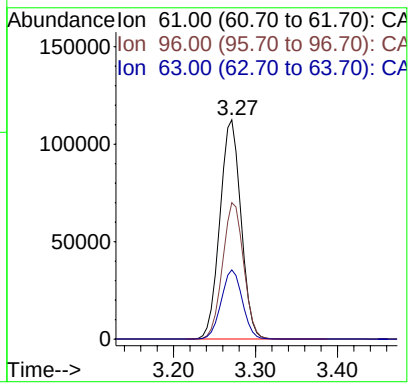


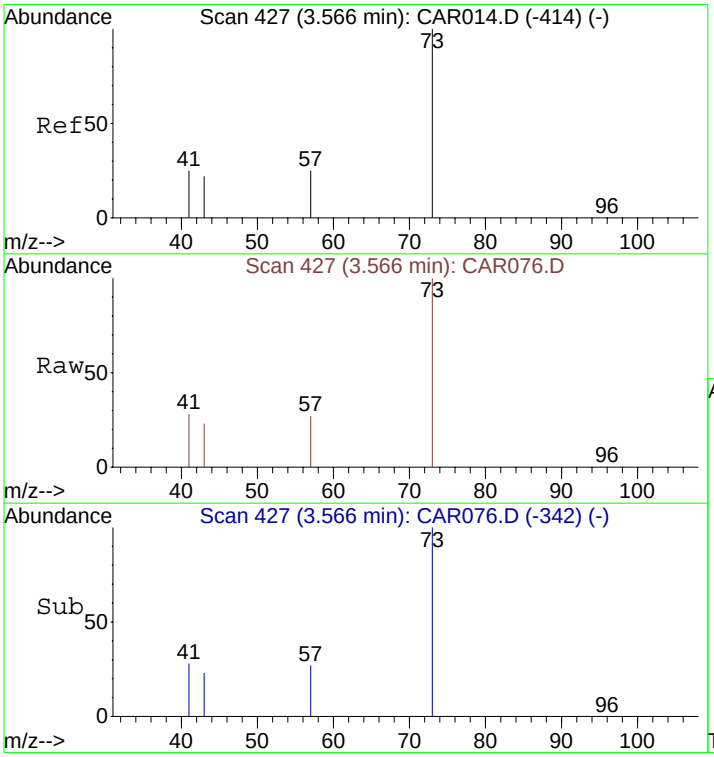


#3
1,1-Dichloroethene
Concen: 982.77 ppbv
RT: 3.27 min Scan# 383
Delta R.T. 0.00 min
Lab File: CAR076.D
Acq: 17 Sep 2008 8:28

Tgt Ion: 61 Resp: 201403

Ion	Ratio	Lower	Upper
61	100		
96	62.2	45.7	68.5
63	31.5	25.0	37.4

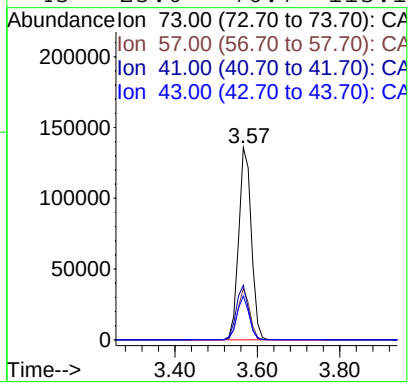


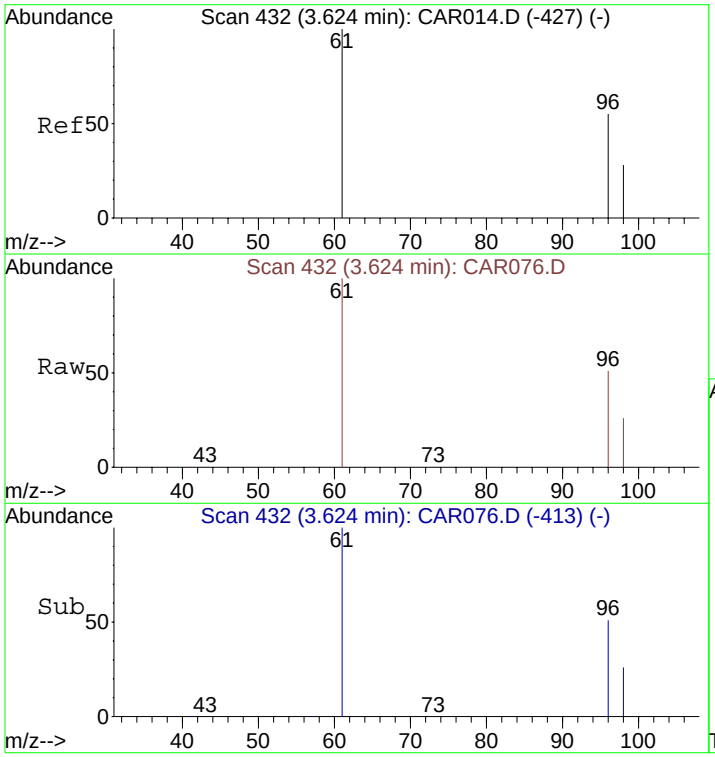


#4
Methyl tert-Butyl Ether (MTBE)
Concen: 984.38 ppbv
RT: 3.57 min Scan# 427
Delta R.T. 0.00 min
Lab File: CAR076.D
Acq: 17 Sep 2008 8:28

Tgt Ion: 73 Resp: 274155

Ion	Ratio	Lower	Upper
73	100		
57	26.5	32.6	49.0#
41	28.8	139.4	209.2#
43	23.0	76.7	115.1#

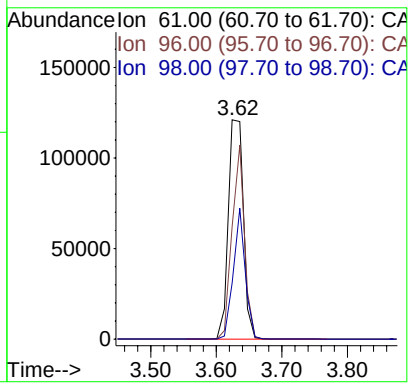


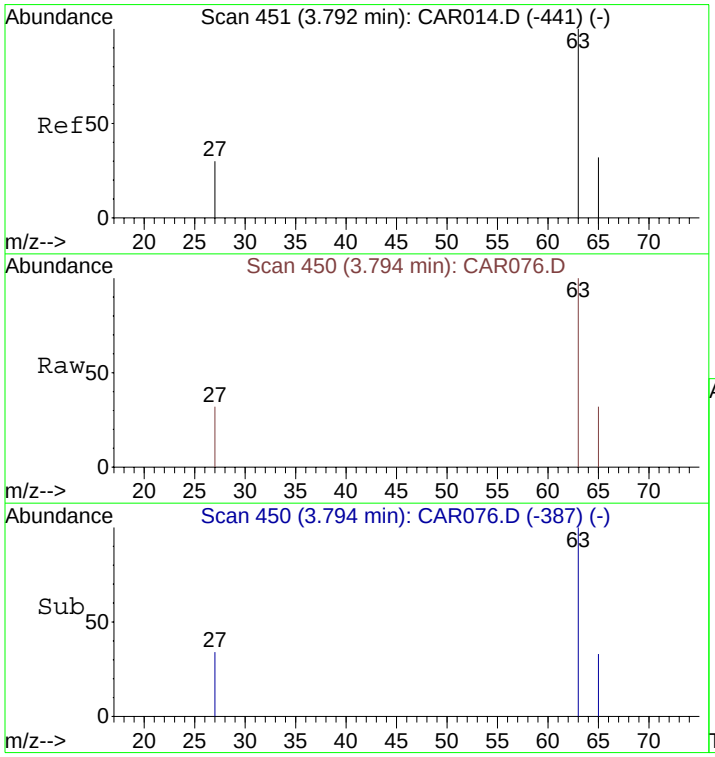


#5
trans-1,2-Dichloroethene
Concen: 1002.36 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR076.D
Acq: 17 Sep 2008 8:28

Tgt Ion: 61 Resp: 187726

Ion	Ratio	Lower	Upper
61	100		
96	73.0	55.0	82.4
98	47.0	35.6	53.4

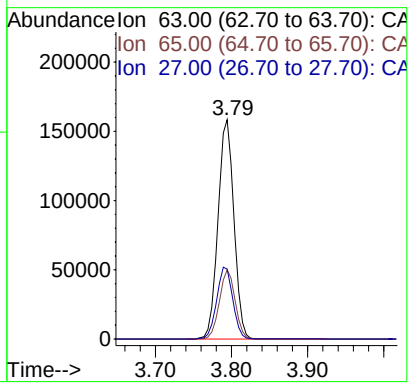


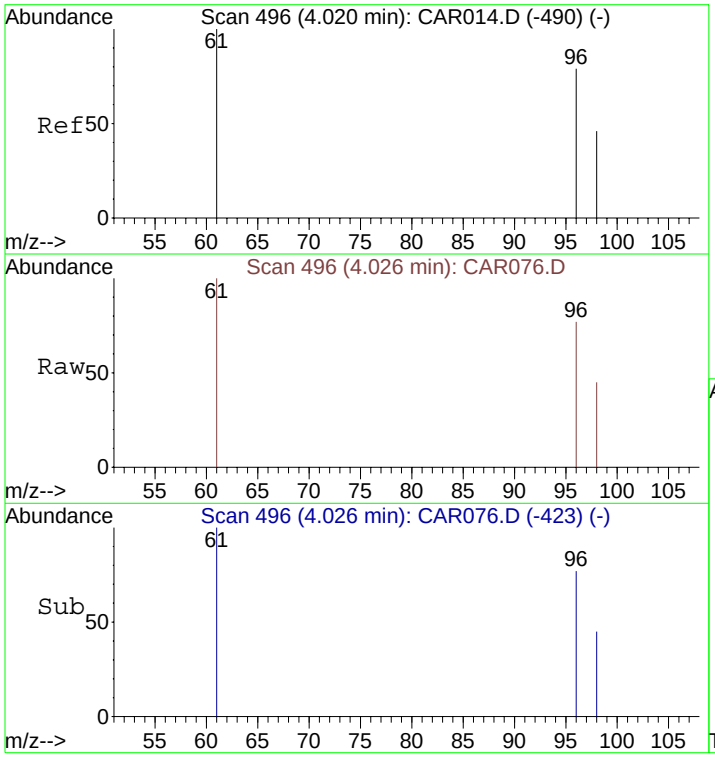


#6
1,1-Dichloroethane
Concen: 1001.76 ppbv
RT: 3.79 min Scan# 450
Delta R.T. 0.00 min
Lab File: CAR076.D
Acq: 17 Sep 2008 8:28

Tgt Ion: 63 Resp: 246701

Ion	Ratio	Lower	Upper
63	100		
65	32.9	23.5	35.3
27	34.7	26.7	40.1

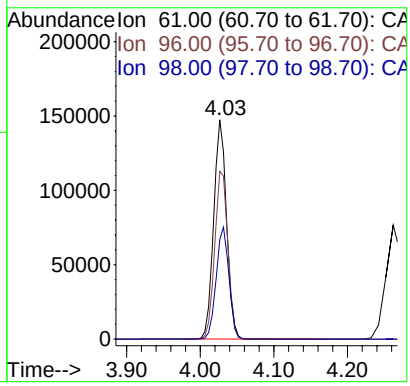


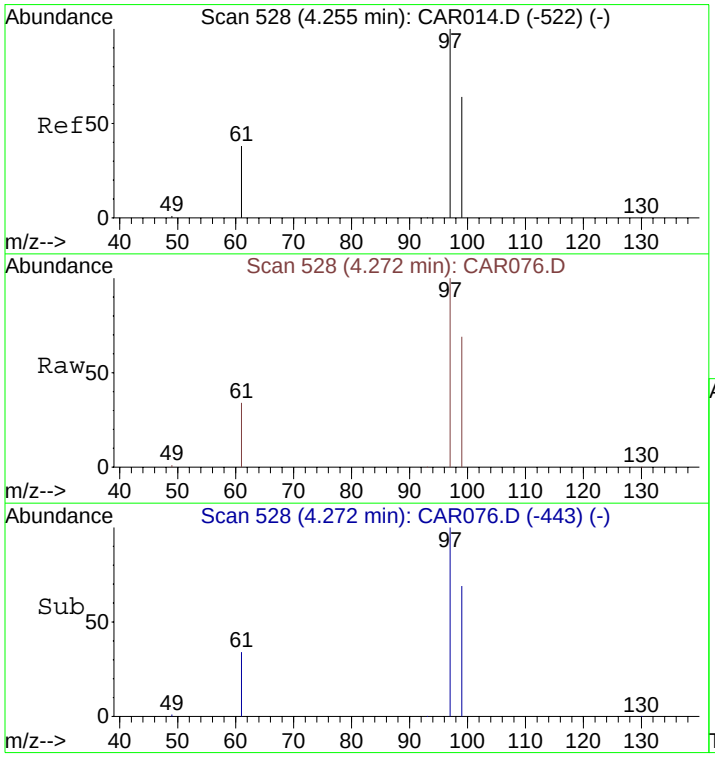


#7
cis-1,2-Dichloroethene
Concen: 1067.58 ppbv
RT: 4.03 min Scan# 496
Delta R.T. 0.01 min
Lab File: CAR076.D
Acq: 17 Sep 2008 8:28

Tgt Ion: 61 Resp: 217174

Ion	Ratio	Lower	Upper
61	100		
96	67.5	56.0	84.0
98	43.7	36.2	54.4

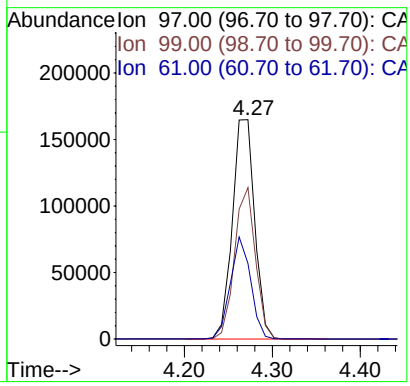


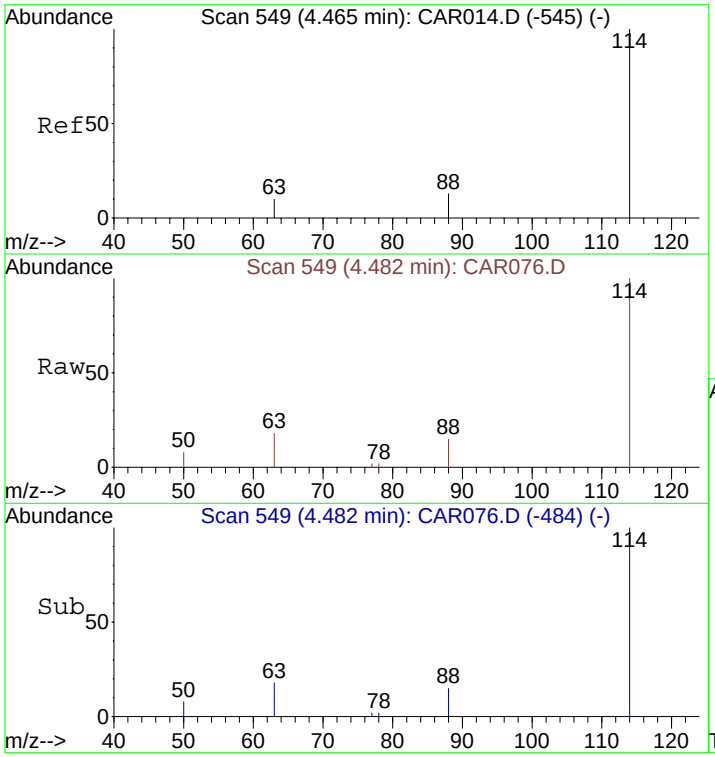


#8
1,1,1-Trichloroethane
Concen: 1014.13 ppbv
RT: 4.27 min Scan# 528
Delta R.T. 0.02 min
Lab File: CAR076.D
Acq: 17 Sep 2008 8:28

Tgt Ion: 97 Resp: 291611

Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.8	77.8
61	42.2	32.1	48.1

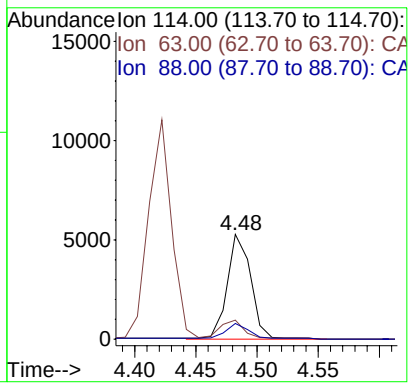


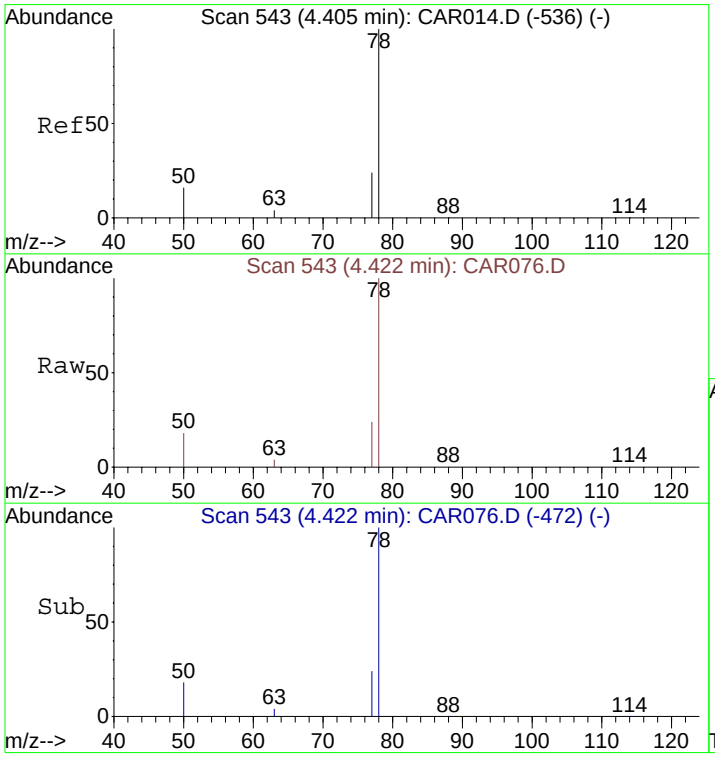


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 549
Delta R.T. 0.02 min
Lab File: CAR076.D
Acq: 17 Sep 2008 8:28

Tgt Ion:114 Resp: 6830

Ion	Ratio	Lower	Upper
114	100		
63	20.6	15.8	23.8
88	16.4	12.2	18.2

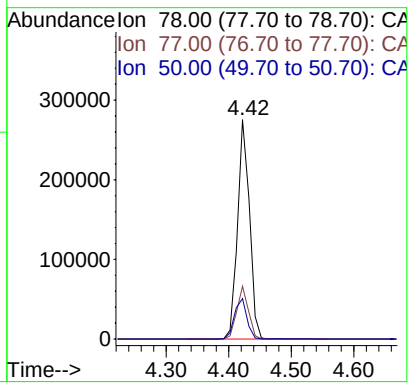


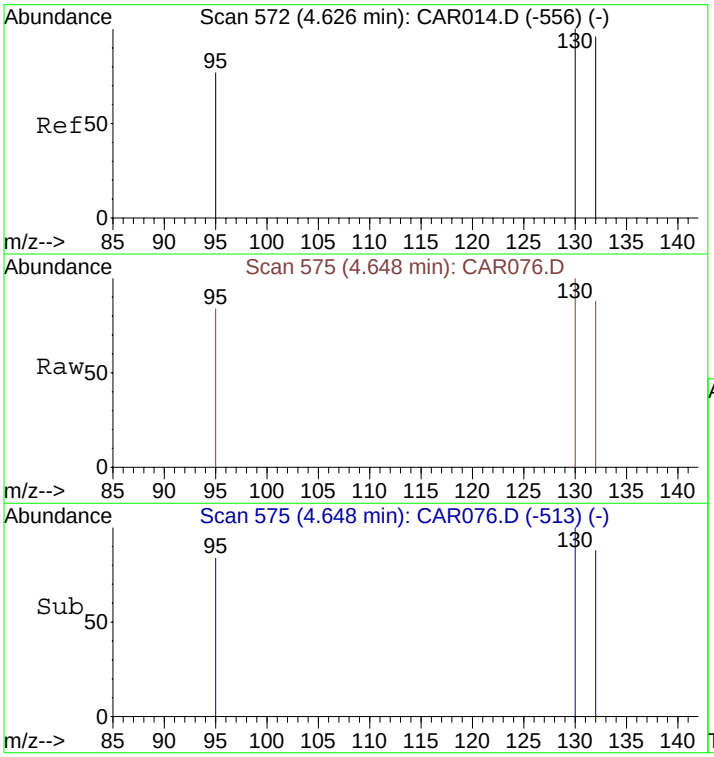


#10
Benzene
Concen: 1051.84 ppbv
RT: 4.42 min Scan# 543
Delta R.T. 0.02 min
Lab File: CAR076.D
Acq: 17 Sep 2008 8:28

Tgt Ion: 78 Resp: 354430

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.6	28.0
50	19.7	16.2	24.4

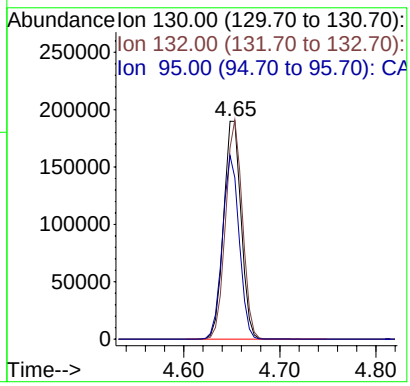


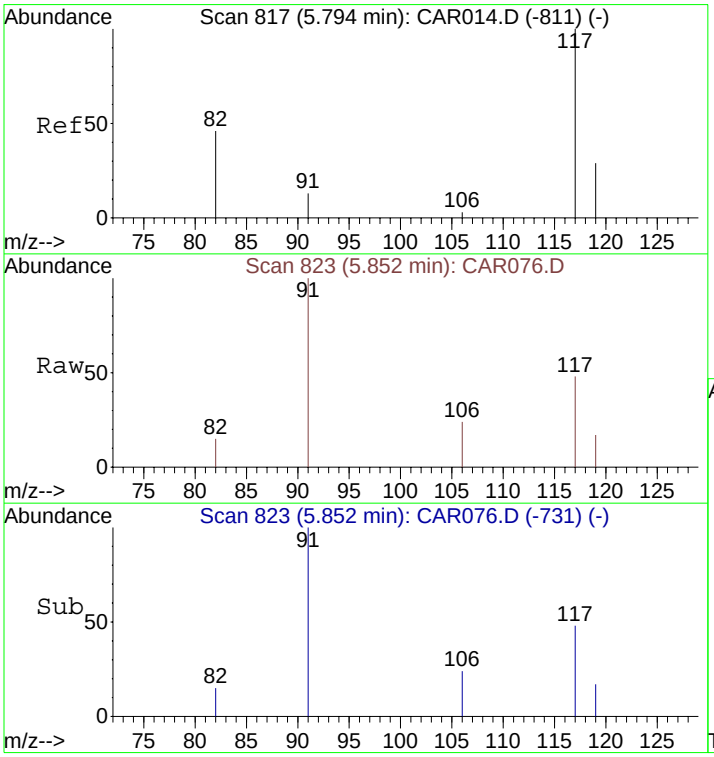


#11
Trichloroethene
Concen: 1021.10 ppbv
RT: 4.65 min Scan# 575
Delta R.T. 0.02 min
Lab File: CAR076.D
Acq: 17 Sep 2008 8:28

Tgt Ion:130 Resp: 239232

Ion	Ratio	Lower	Upper
130	100		
132	96.7	73.8	110.6
95	80.9	72.5	108.7

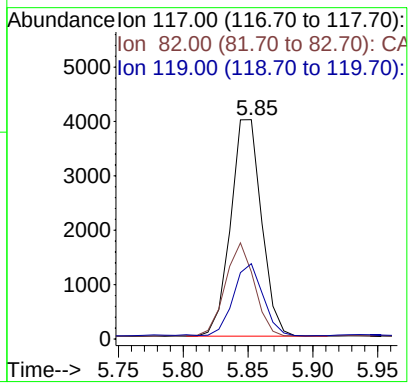


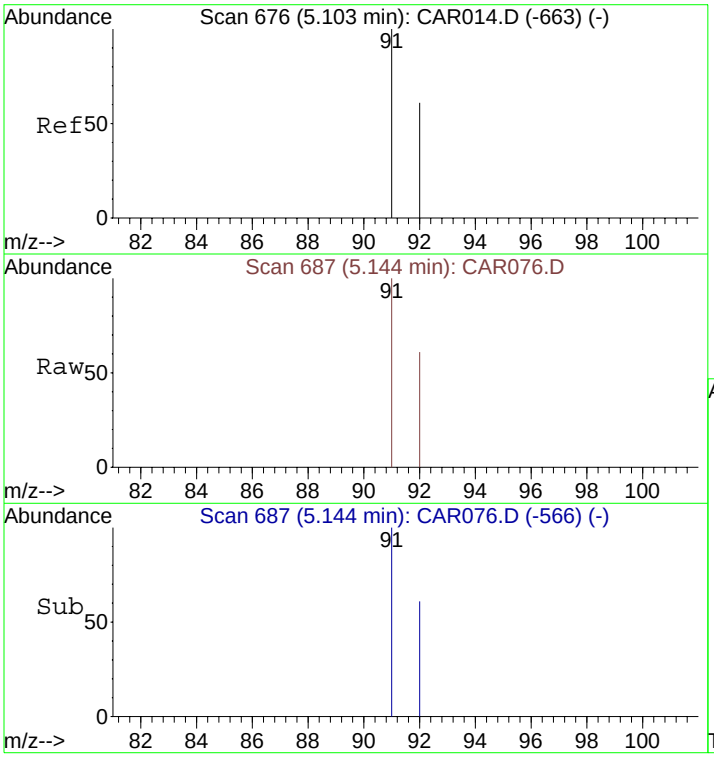


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.85 min Scan# 823
Delta R.T. 0.06 min
Lab File: CAR076.D
Acq: 17 Sep 2008 8:28

Tgt Ion:117 Resp: 6616

Ion	Ratio	Lower	Upper
117	100		
82	40.5	38.3	57.5
119	32.0	26.0	39.0

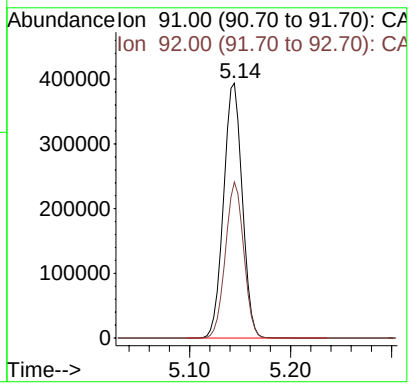


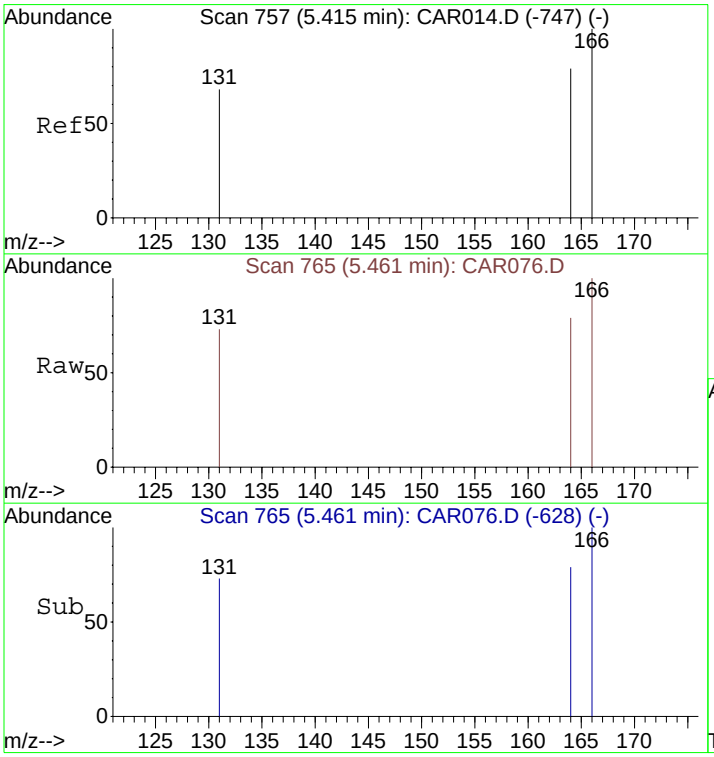


#13
Toluene
Concen: 1055.83 ppbv
RT: 5.14 min Scan# 687
Delta R.T. 0.04 min
Lab File: CAR076.D
Acq: 17 Sep 2008 8:28

Tgt Ion: 91 Resp: 505160

Ion	Ratio	Lower	Upper
91	100		
92	60.2	48.2	72.2

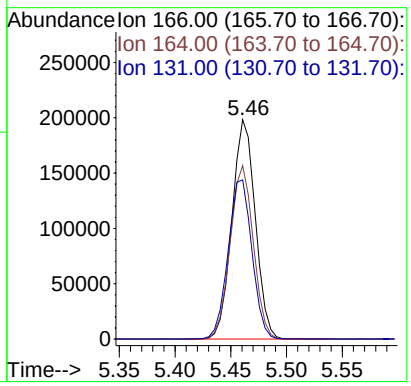


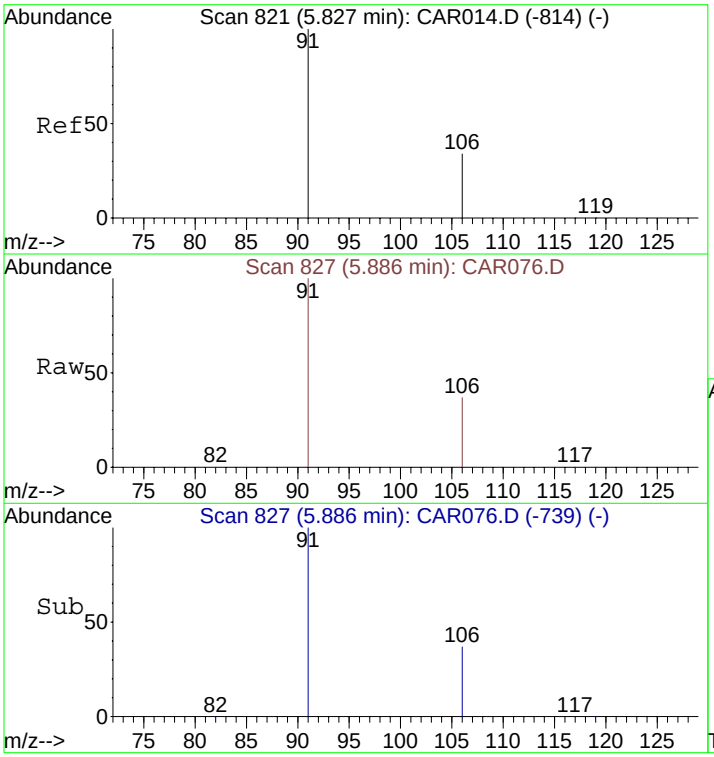


#14
Tetrachloroethene
Concen: 986.03 ppbv
RT: 5.46 min Scan# 765
Delta R.T. 0.05 min
Lab File: CAR076.D
Acq: 17 Sep 2008 8:28

Tgt Ion:166 Resp: 287251

Ion	Ratio	Lower	Upper
166	100		
164	78.6	63.1	94.7
131	74.3	62.9	94.3

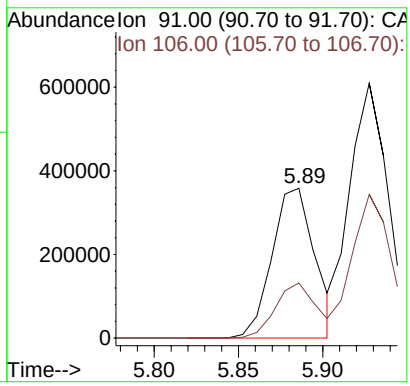


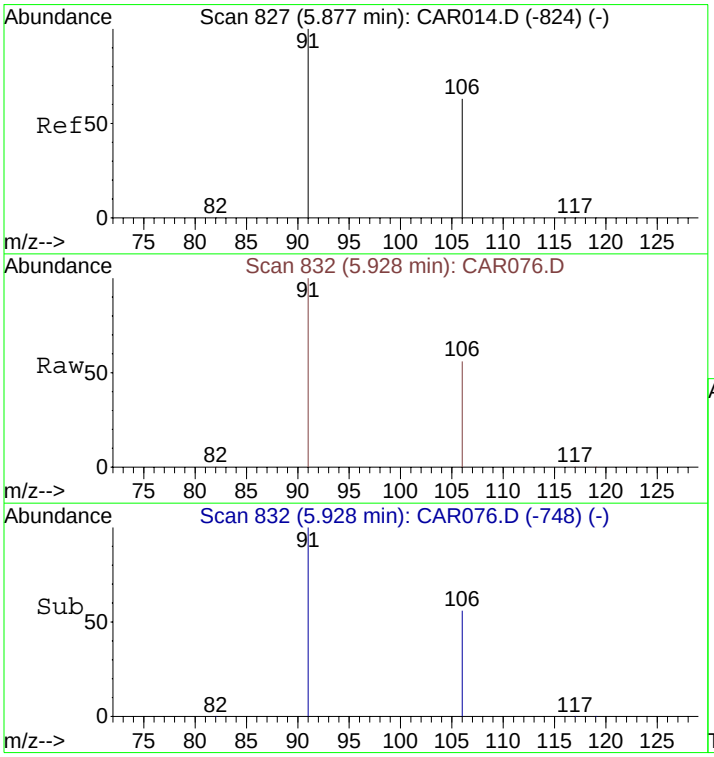


#15
Ethylbenzene
Concen: 1064.00 ppbv
RT: 5.89 min Scan# 827
Delta R.T. 0.06 min
Lab File: CAR076.D
Acq: 17 Sep 2008 8:28

Tgt Ion: 91 Resp: 632882

Ion	Ratio	Lower	Upper
91	100		
106	35.2	26.3	39.5

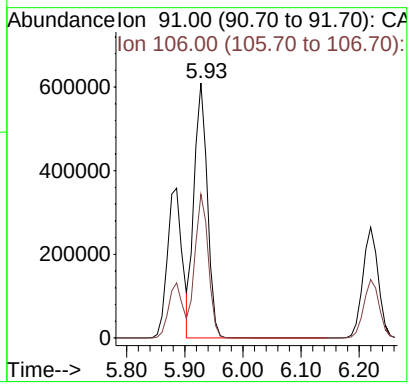


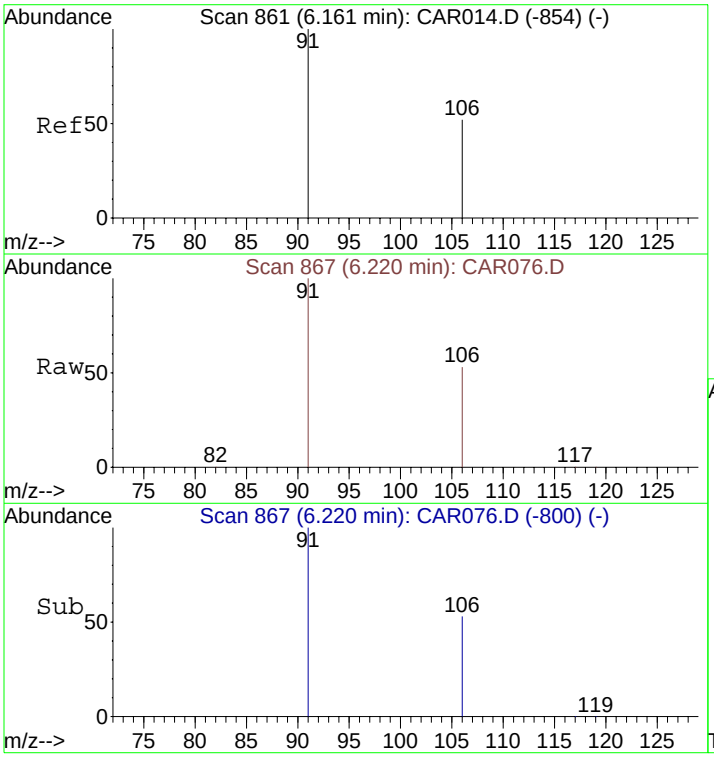


#16
m&p-Xylenes
Concen: 2264.07 ppbv
RT: 5.93 min Scan# 832
Delta R.T. 0.05 min
Lab File: CAR076.D
Acq: 17 Sep 2008 8:28

Tgt Ion: 91 Resp: 966520

Ion	Ratio	Lower	Upper
91	100		
106	57.0	41.8	62.8

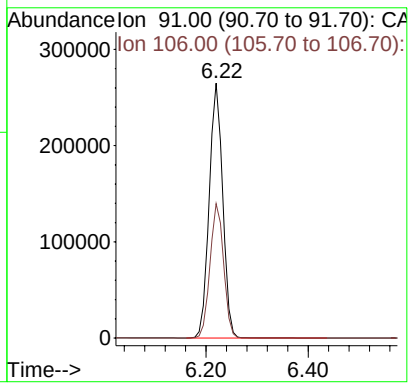




#17
o-Xylene
Concen: 1034.55 ppbv
RT: 6.22 min Scan# 867
Delta R.T. 0.06 min
Lab File: CAR076.D
Acq: 17 Sep 2008 8:28

Tgt Ion: 91 Resp: 485481

Ion	Ratio	Lower	Upper
91	100		
106	53.1	38.9	58.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR077.D Vial: 1
Acq On : 17 Sep 2008 8:38 Operator: dlm
Sample : STD20080917-3 Inst : Instrumen
Misc : 500 ppbv ICAL std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 30 07:31:18 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 08:59:04 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.15	49	2053	10.00 ppbv	0.01
9) 1,4-Difluorobenzene	4.49	114	6704	10.00 ppbv	0.02
12) Chlorobenzene-d5	5.84	117	6437	10.00 ppbv	0.05

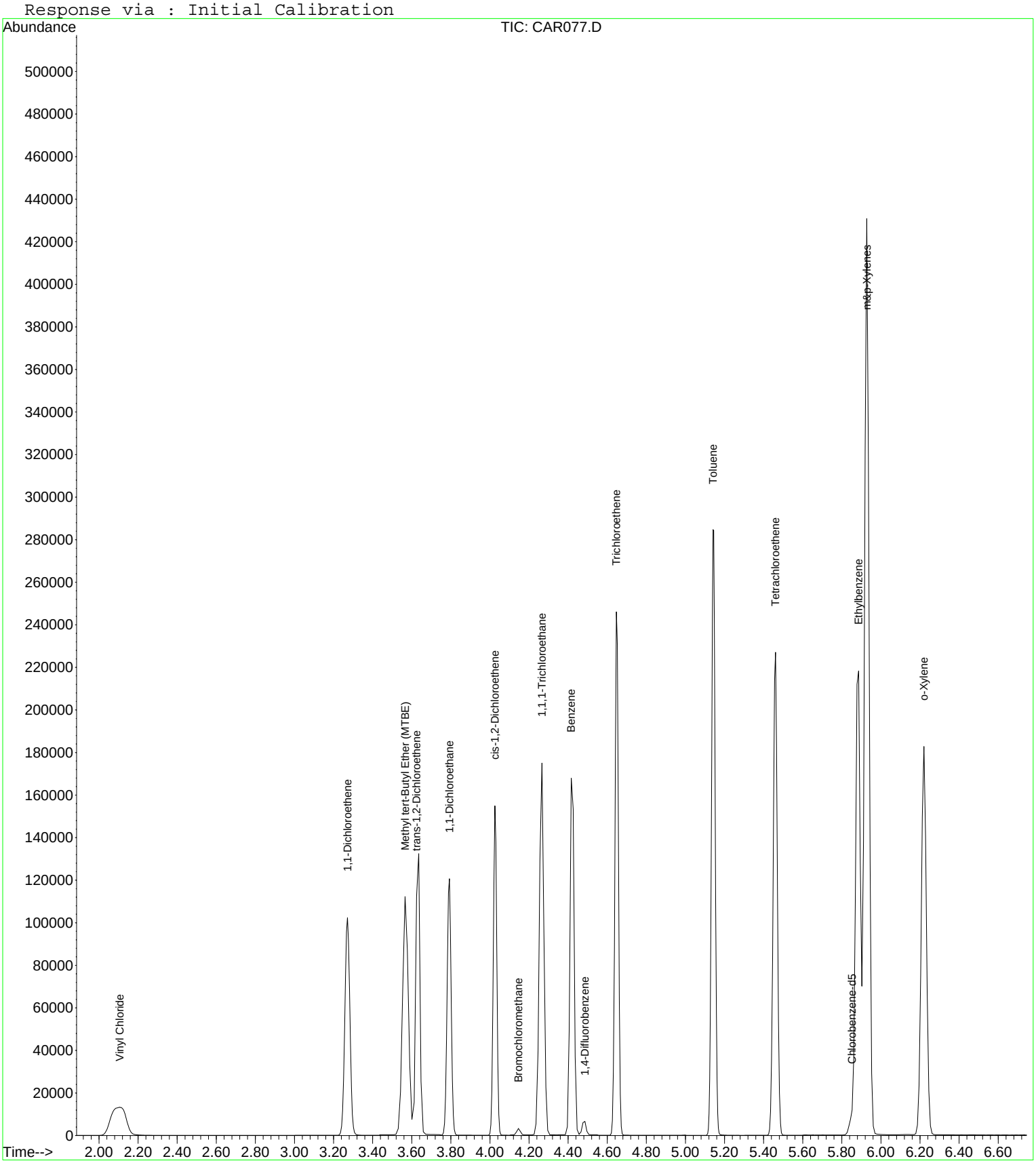
Target Compounds					Qvalue
2) Vinyl Chloride	2.11	62	55766	470.20 ppbv #	55
3) 1,1-Dichloroethene	3.27	61	94664	472.73 ppbv	96
4) Methyl tert-Butyl Ether (M	3.57	73	126443	464.62 ppbv #	16
5) trans-1,2-Dichloroethene	3.62	61	88109	481.46 ppbv	94
6) 1,1-Dichloroethane	3.79	63	117824	489.63 ppbv	96
7) cis-1,2-Dichloroethene	4.02	61	82672	415.90 ppbv	87
8) 1,1,1-Trichloroethane	4.27	97	136057	484.22 ppbv	98
10) Benzene	4.43	78	166689	503.98 ppbv	99
11) Trichloroethene	4.65	130	111145	483.31 ppbv	93
13) Toluene	5.14	91	232975	500.48 ppbv	100
14) Tetrachloroethene	5.46	166	132458	467.32 ppbv	97
15) Ethylbenzene	5.88	91	289376	500.03 ppbv	96
16) m&p-Xylenes	5.93	91	437761	1053.97 ppbv	93
17) o-Xylene	6.22	91	219405	480.55 ppbv	94

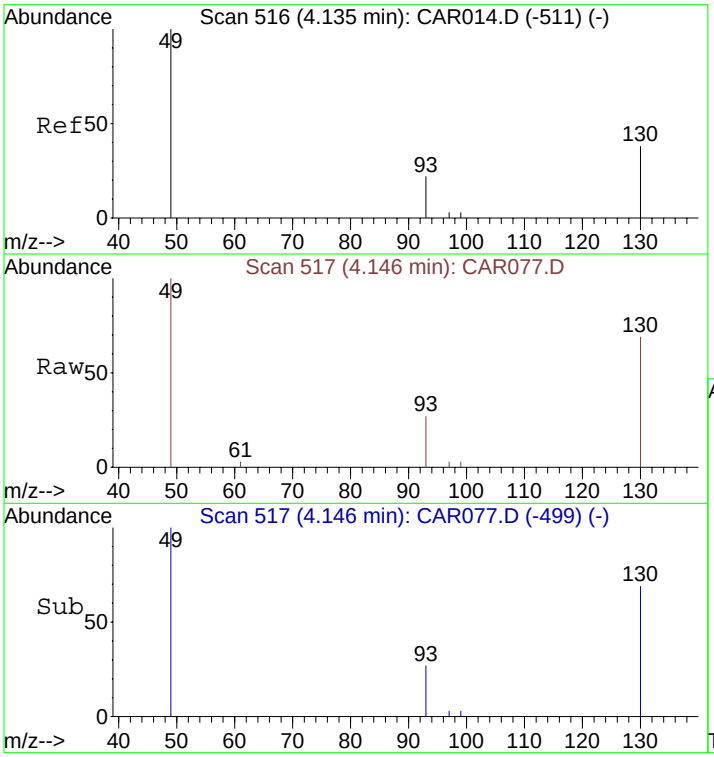
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR077.D Vial: 1
Acq On : 17 Sep 2008 8:38 Operator: dlm
Sample : STD20080917-3 Inst : Instrumen
Misc : 500 ppbv ICAL std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 30 7:31 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:18:47 2008
Response via : Initial Calibration

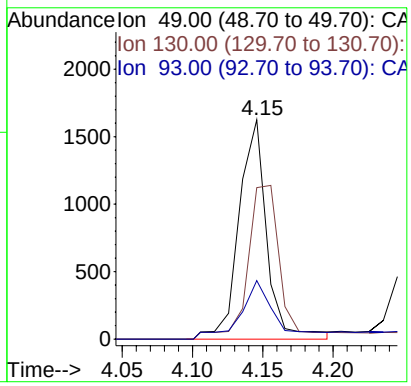


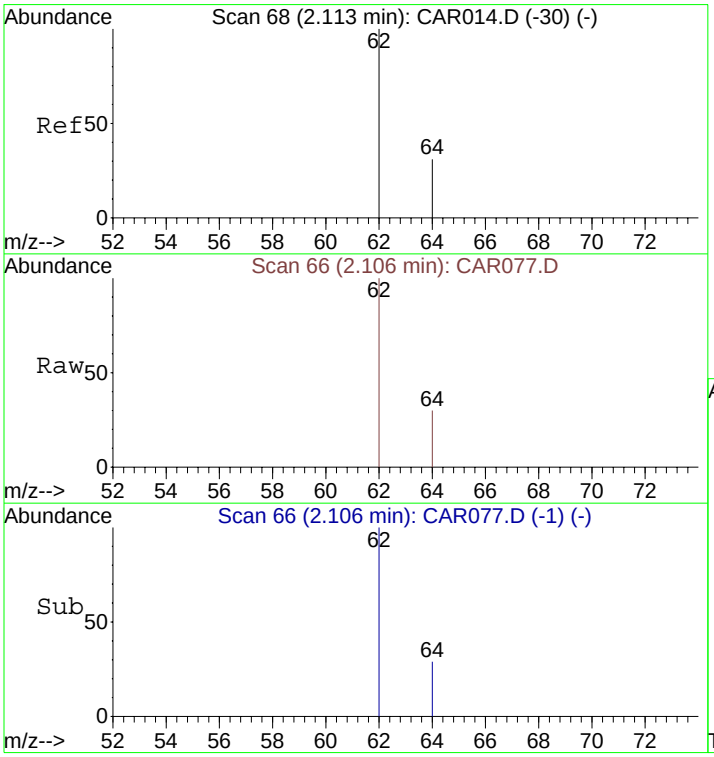


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.15 min Scan# 517
Delta R.T. 0.01 min
Lab File: CAR077.D
Acq: 17 Sep 2008 8:38

Tgt Ion: 49 Resp: 2053

Ion	Ratio	Lower	Upper
49	100		
130	78.8	65.1	97.7
93	33.4	33.8	50.6#

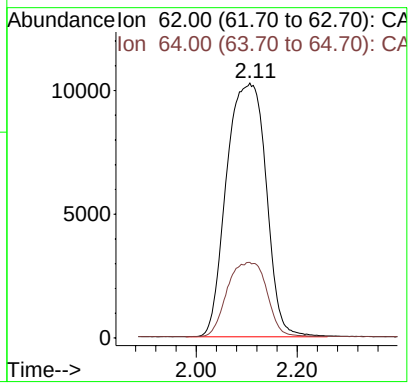


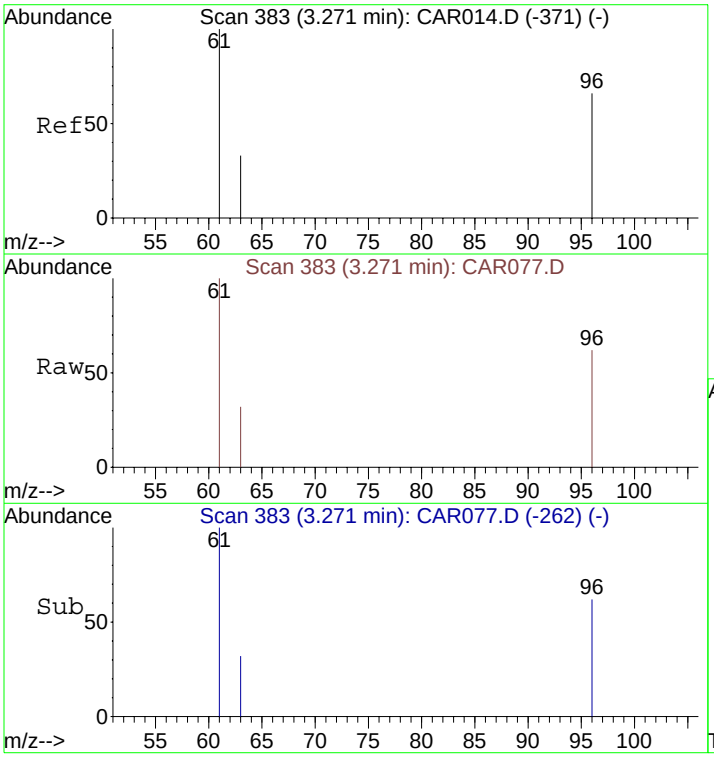


#2
Vinyl Chloride
Concen: 470.20 ppbv
RT: 2.11 min Scan# 66
Delta R.T. -0.01 min
Lab File: CAR077.D
Acq: 17 Sep 2008 8:38

Tgt Ion: 62 Resp: 55766

Ion	Ratio	Lower	Upper
62	100		
64	29.3	9.4	14.2#

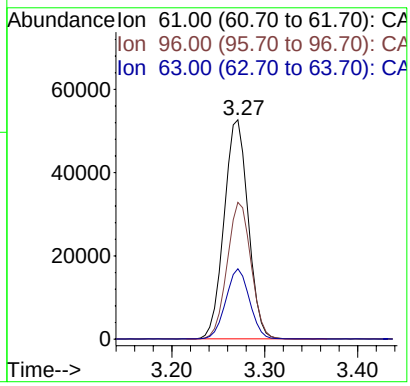


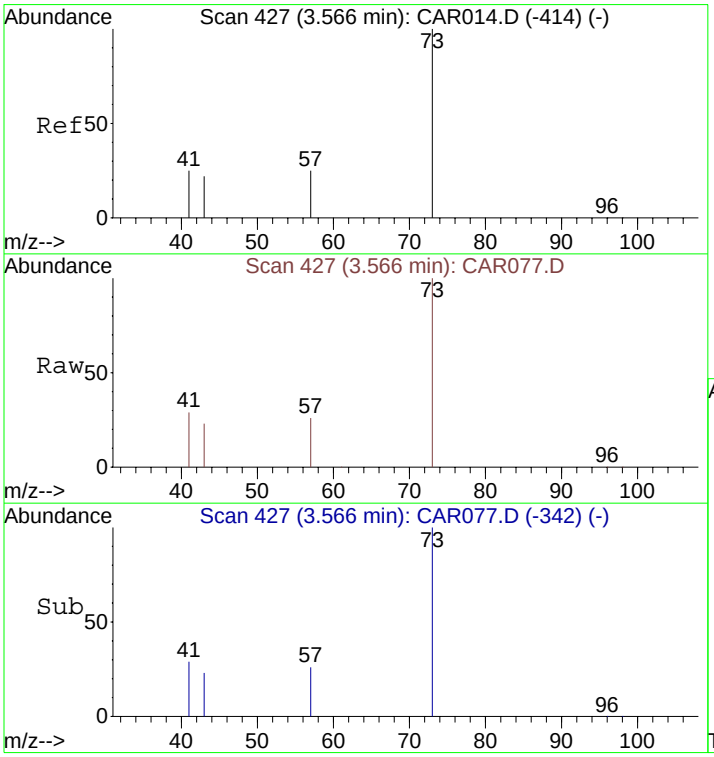


#3
1,1-Dichloroethene
Concen: 472.73 ppbv
RT: 3.27 min Scan# 383
Delta R.T. 0.00 min
Lab File: CAR077.D
Acq: 17 Sep 2008 8:38

Tgt Ion: 61 Resp: 94664

Ion	Ratio	Lower	Upper
61	100		
96	61.9	45.7	68.5
63	31.4	25.0	37.4

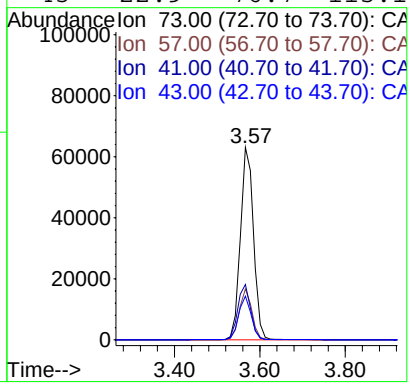


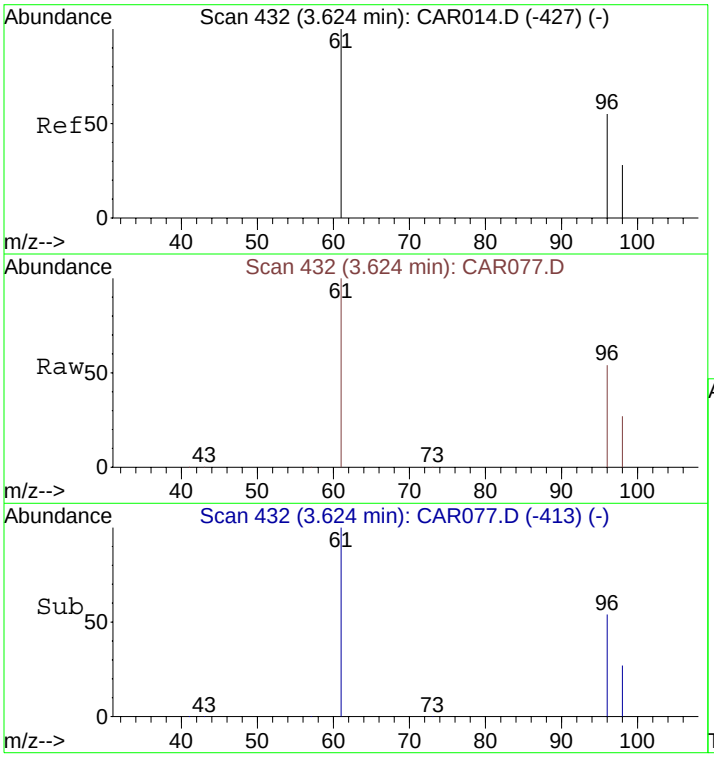


#4
Methyl tert-Butyl Ether (MTBE)
Concen: 464.62 ppbv
RT: 3.57 min Scan# 427
Delta R.T. 0.00 min
Lab File: CAR077.D
Acq: 17 Sep 2008 8:38

Tgt Ion: 73 Resp: 126443

Ion	Ratio	Lower	Upper
73	100		
57	26.6	32.6	49.0#
41	29.9	139.4	209.2#
43	22.9	76.7	115.1#

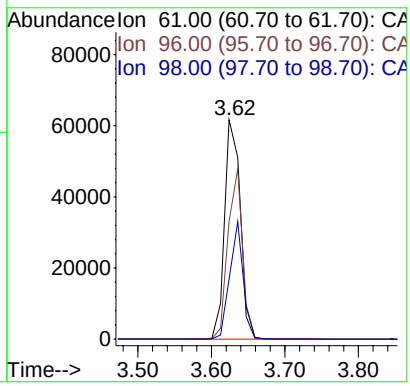


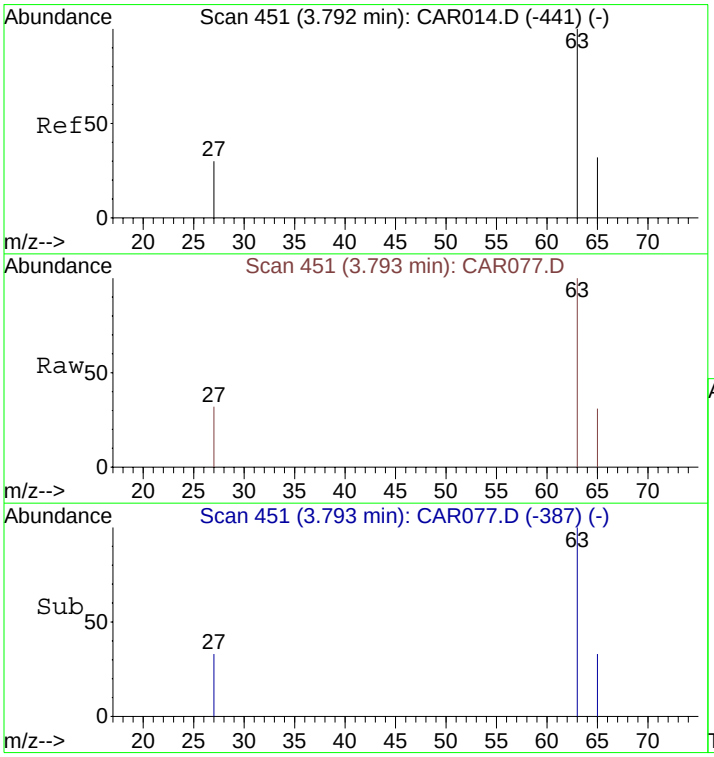


#5
trans-1,2-Dichloroethene
Concen: 481.46 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR077.D
Acq: 17 Sep 2008 8:38

Tgt Ion: 61 Resp: 88109

Ion	Ratio	Lower	Upper
61	100		
96	74.7	55.0	82.4
98	46.7	35.6	53.4

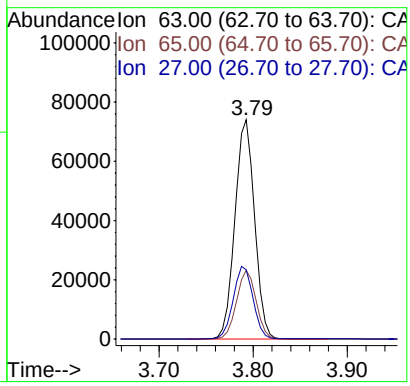


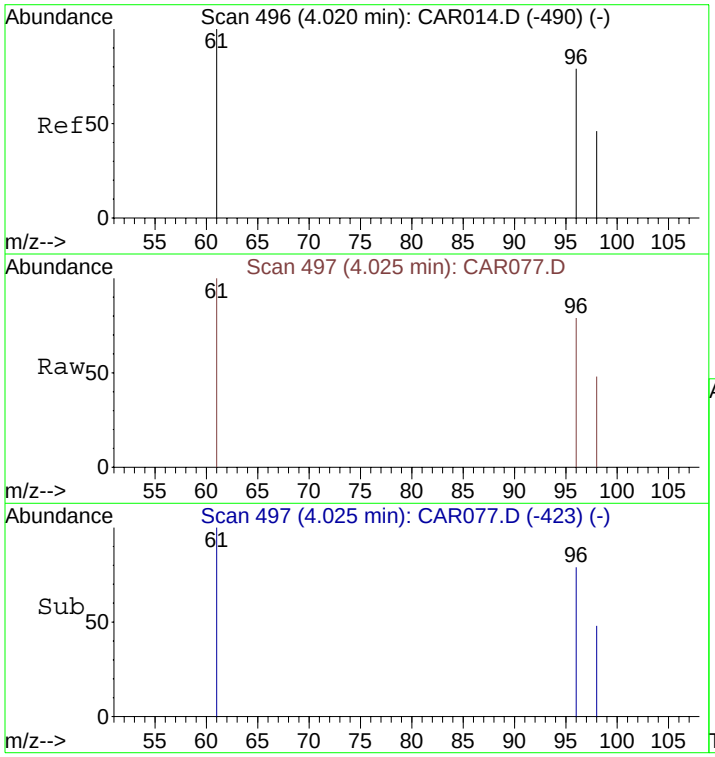


#6
1,1-Dichloroethane
Concen: 489.63 ppbv
RT: 3.79 min Scan# 451
Delta R.T. 0.00 min
Lab File: CAR077.D
Acq: 17 Sep 2008 8:38

Tgt Ion: 63 Resp: 117824

Ion	Ratio	Lower	Upper
63	100		
65	32.4	23.5	35.3
27	34.5	26.7	40.1

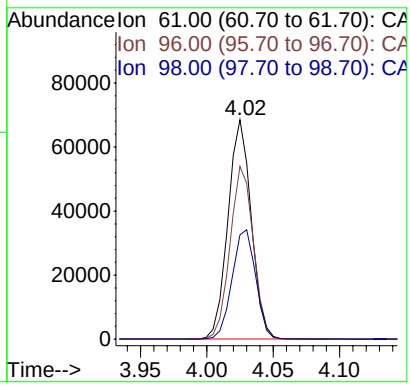


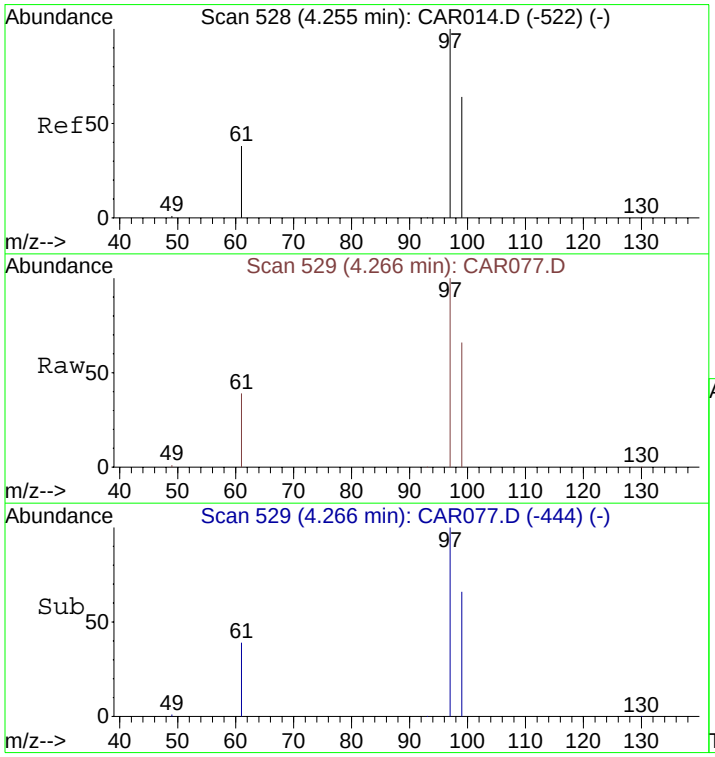


#7
cis-1,2-Dichloroethene
Concen: 415.90 ppbv
RT: 4.02 min Scan# 497
Delta R.T. 0.01 min
Lab File: CAR077.D
Acq: 17 Sep 2008 8:38

Tgt Ion: 61 Resp: 82672

Ion	Ratio	Lower	Upper
61	100		
96	83.0	56.0	84.0
98	51.2	36.2	54.4

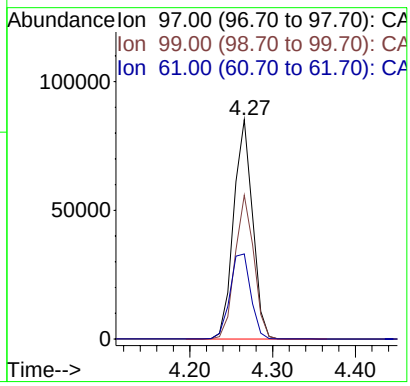


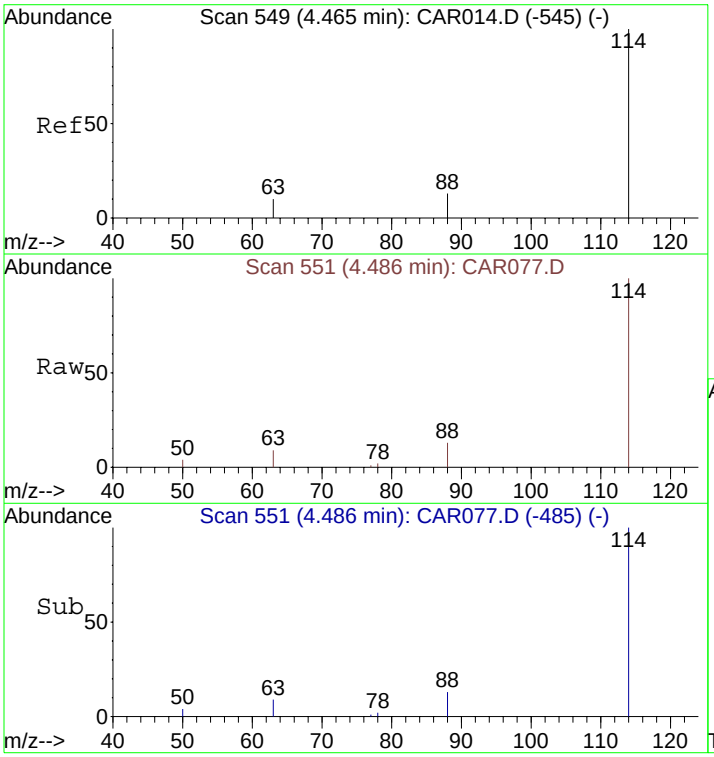


#8
1,1,1-Trichloroethane
Concen: 484.22 ppbv
RT: 4.27 min Scan# 529
Delta R.T. 0.01 min
Lab File: CAR077.D
Acq: 17 Sep 2008 8:38

Tgt Ion: 97 Resp: 136057

Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.8	77.8
61	42.8	32.1	48.1

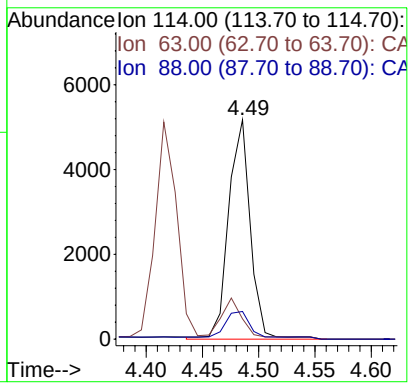


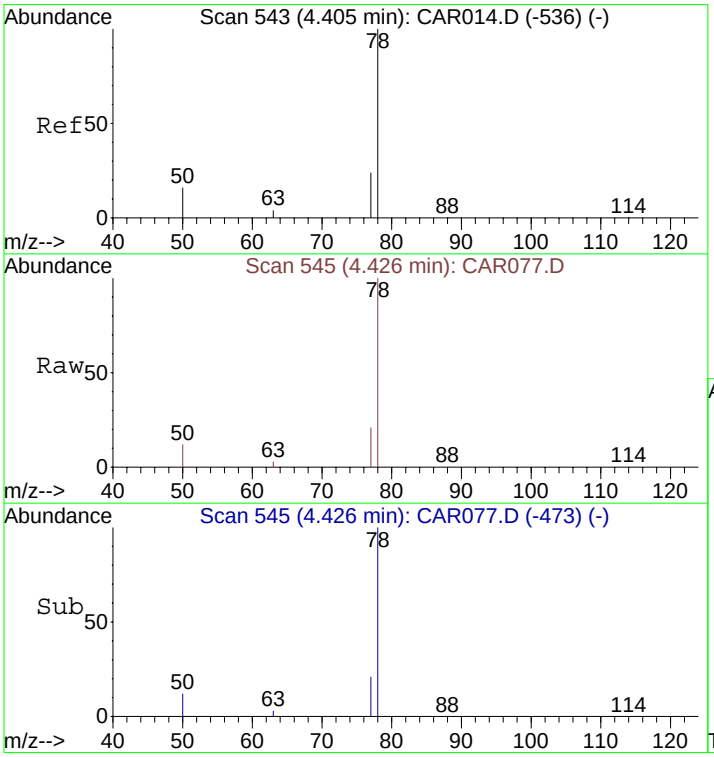


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.49 min Scan# 551
Delta R.T. 0.02 min
Lab File: CAR077.D
Acq: 17 Sep 2008 8:38

Tgt Ion:114 Resp: 6704

Ion	Ratio	Lower	Upper
114	100		
63	17.3	15.8	23.8
88	17.0	12.2	18.2

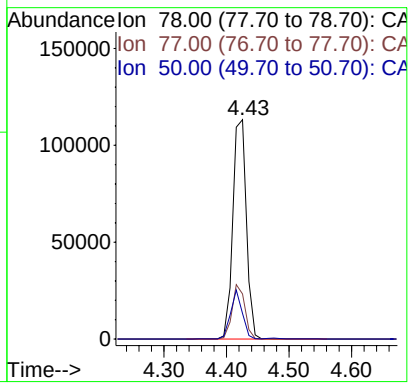


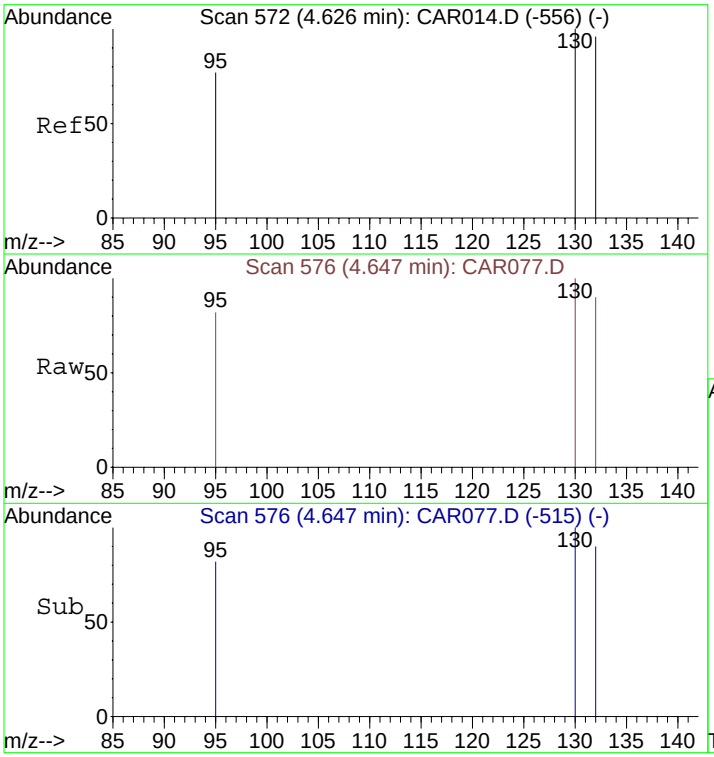


#10
Benzene
Concen: 503.98 ppbv
RT: 4.43 min Scan# 545
Delta R.T. 0.02 min
Lab File: CAR077.D
Acq: 17 Sep 2008 8:38

Tgt Ion: 78 Resp: 166689

Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.6	28.0
50	19.7	16.2	24.4

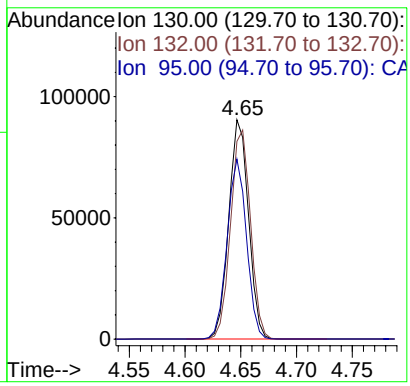


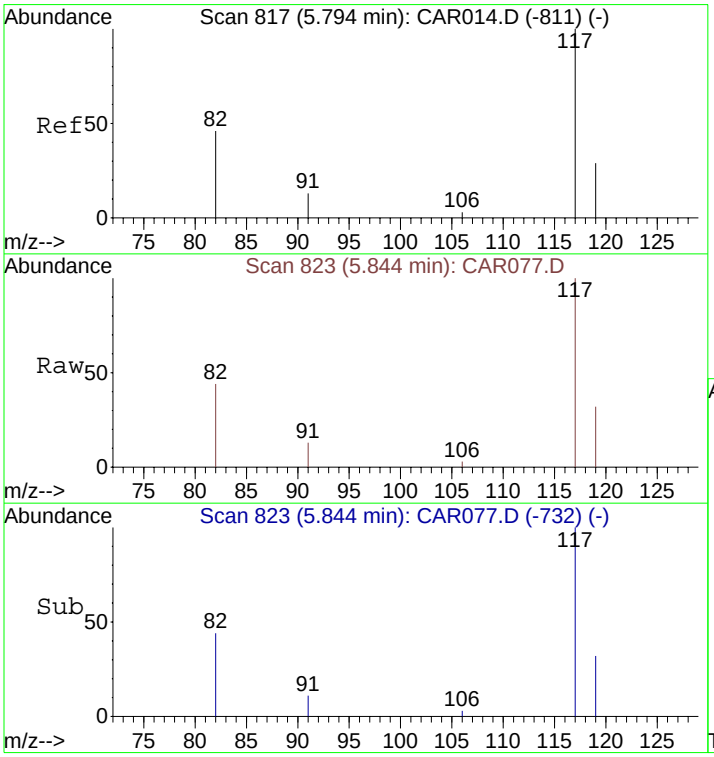


#11
Trichloroethene
Concen: 483.31 ppbv
RT: 4.65 min Scan# 576
Delta R.T. 0.02 min
Lab File: CAR077.D
Acq: 17 Sep 2008 8:38

Tgt Ion:130 Resp: 111145

Ion	Ratio	Lower	Upper
130	100		
132	96.3	73.8	110.6
95	80.7	72.5	108.7

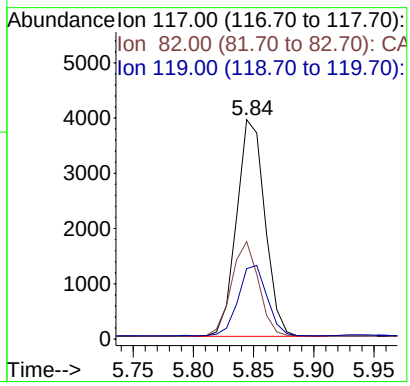


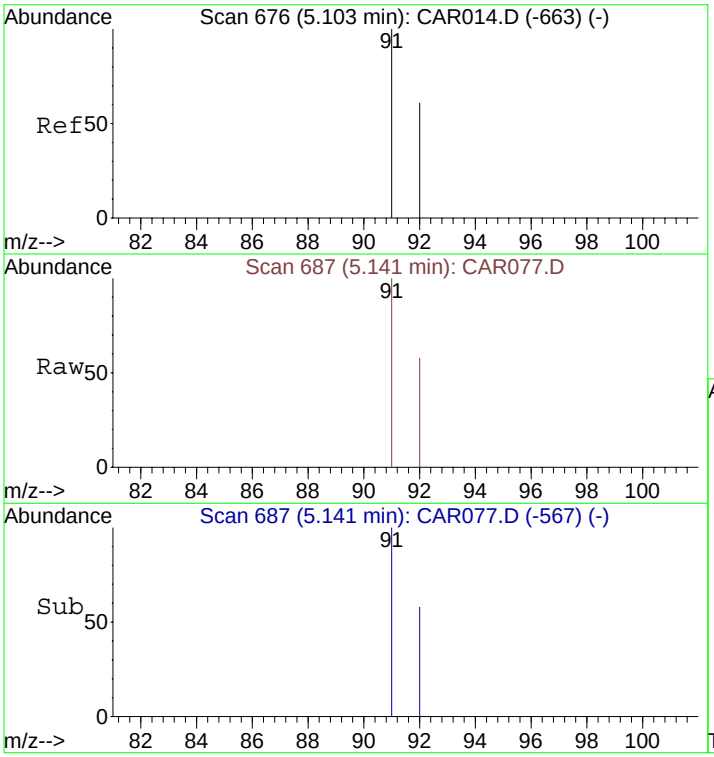


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.84 min Scan# 823
Delta R.T. 0.05 min
Lab File: CAR077.D
Acq: 17 Sep 2008 8:38

Tgt Ion:117 Resp: 6437

Ion	Ratio	Lower	Upper
117	100		
82	42.1	38.3	57.5
119	32.8	26.0	39.0

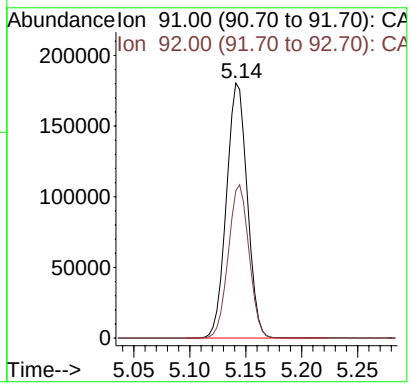


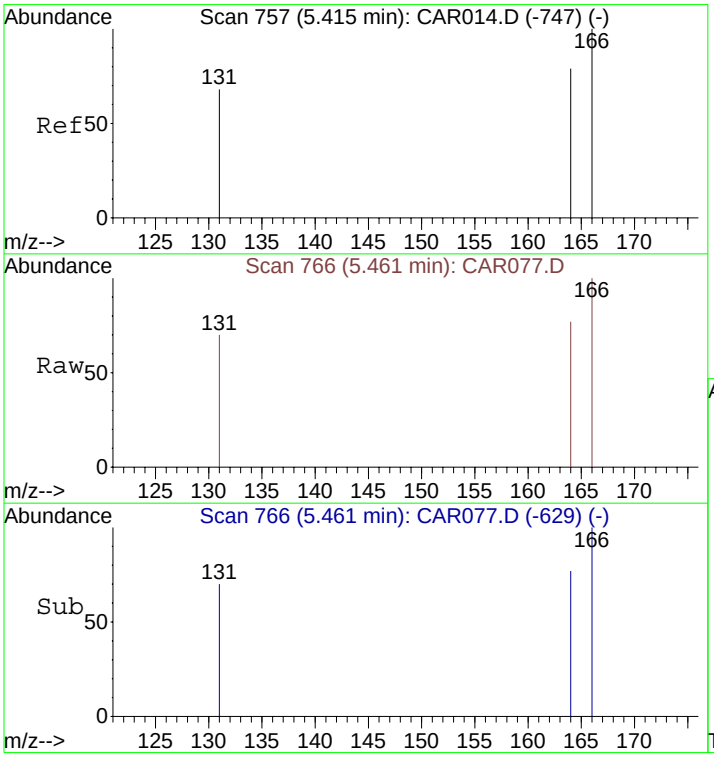


#13
Toluene
Concen: 500.48 ppbv
RT: 5.14 min Scan# 687
Delta R.T. 0.04 min
Lab File: CAR077.D
Acq: 17 Sep 2008 8:38

Tgt Ion: 91 Resp: 232975

Ion	Ratio	Lower	Upper
91	100		
92	60.0	48.2	72.2

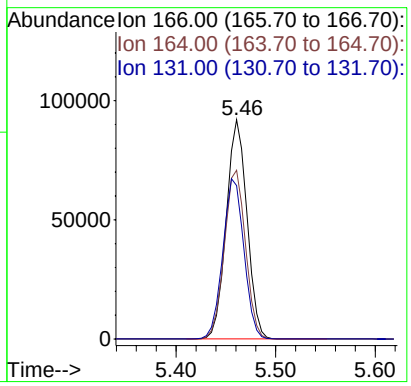


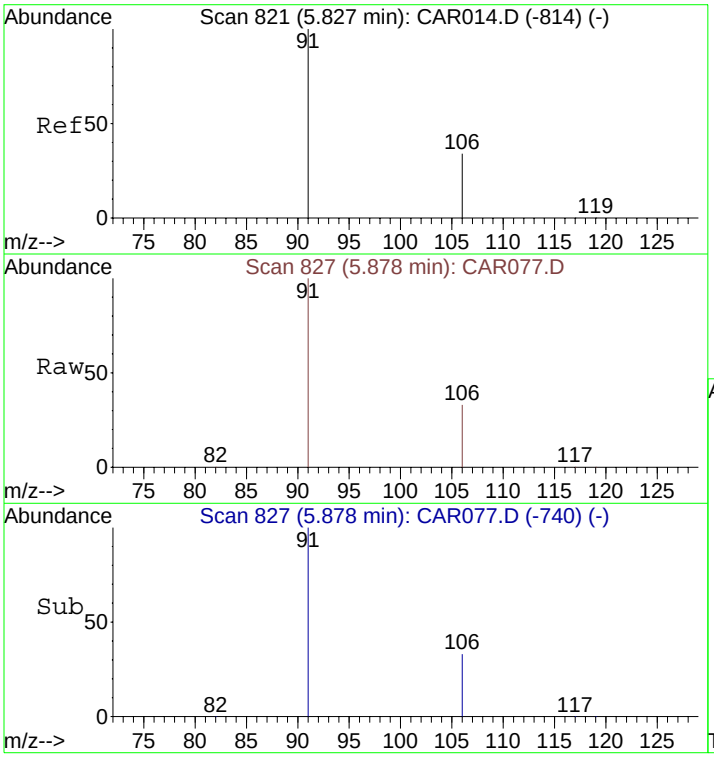


#14
Tetrachloroethene
Concen: 467.32 ppbv
RT: 5.46 min Scan# 766
Delta R.T. 0.05 min
Lab File: CAR077.D
Acq: 17 Sep 2008 8:38

Tgt Ion:166 Resp: 132458

Ion	Ratio	Lower	Upper
166	100		
164	78.5	63.1	94.7
131	74.5	62.9	94.3

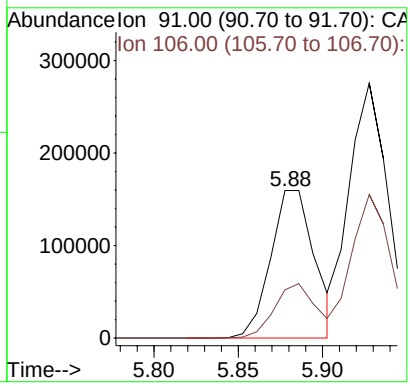


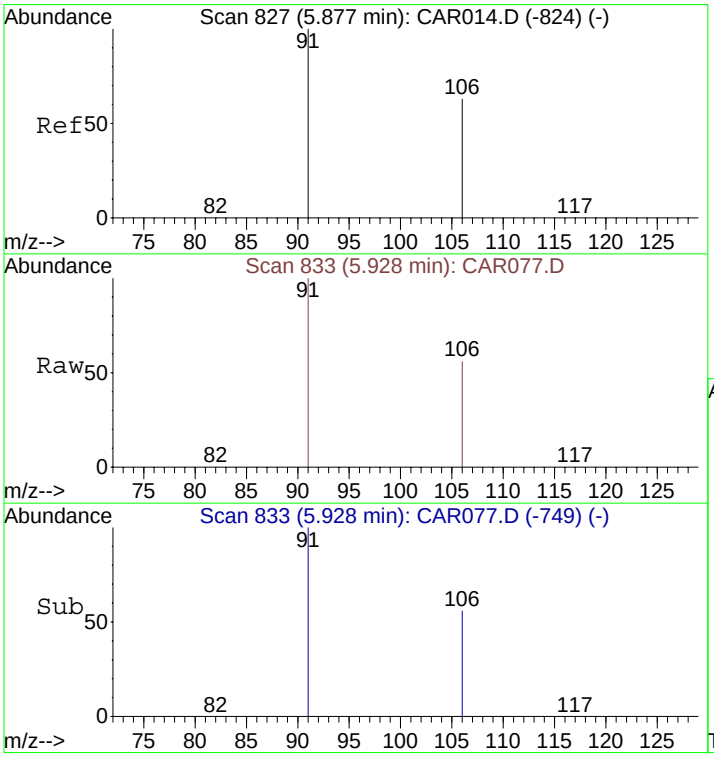


#15
Ethylbenzene
Concen: 500.03 ppbv
RT: 5.88 min Scan# 827
Delta R.T. 0.05 min
Lab File: CAR077.D
Acq: 17 Sep 2008 8:38

Tgt Ion: 91 Resp: 289376

Ion	Ratio	Lower	Upper
91	100		
106	35.0	26.3	39.5

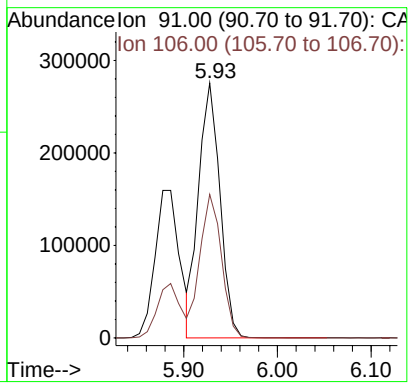


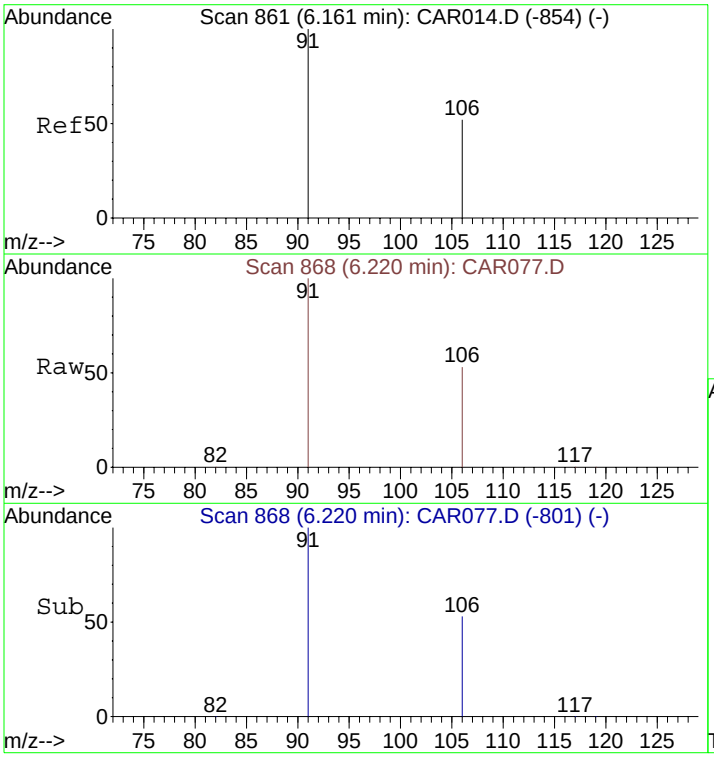


#16
m&p-Xylenes
Concen: 1053.97 ppbv
RT: 5.93 min Scan# 833
Delta R.T. 0.05 min
Lab File: CAR077.D
Acq: 17 Sep 2008 8:38

Tgt Ion: 91 Resp: 437761

Ion	Ratio	Lower	Upper
91	100		
106	56.9	41.8	62.8

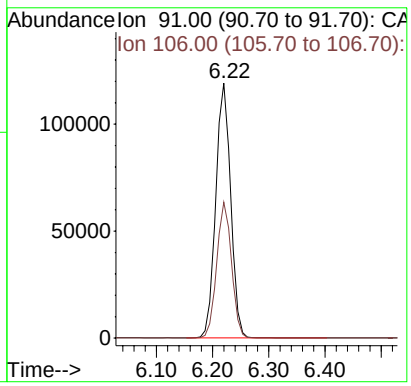




#17
o-Xylene
Concen: 480.55 ppbv
RT: 6.22 min Scan# 868
Delta R.T. 0.06 min
Lab File: CAR077.D
Acq: 17 Sep 2008 8:38

Tgt Ion: 91 Resp: 219405

Ion	Ratio	Lower	Upper
91	100		
106	52.9	38.9	58.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR078.D Vial: 1
Acq On : 17 Sep 2008 8:49 Operator: dlm
Sample : STD20080917-4 Inst : Instrumen
Misc : 50 ppbv ICAL std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 17 08:59:24 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 08:59:04 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1847	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	6185	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.82	117	5988	10.00 ppbv	0.03

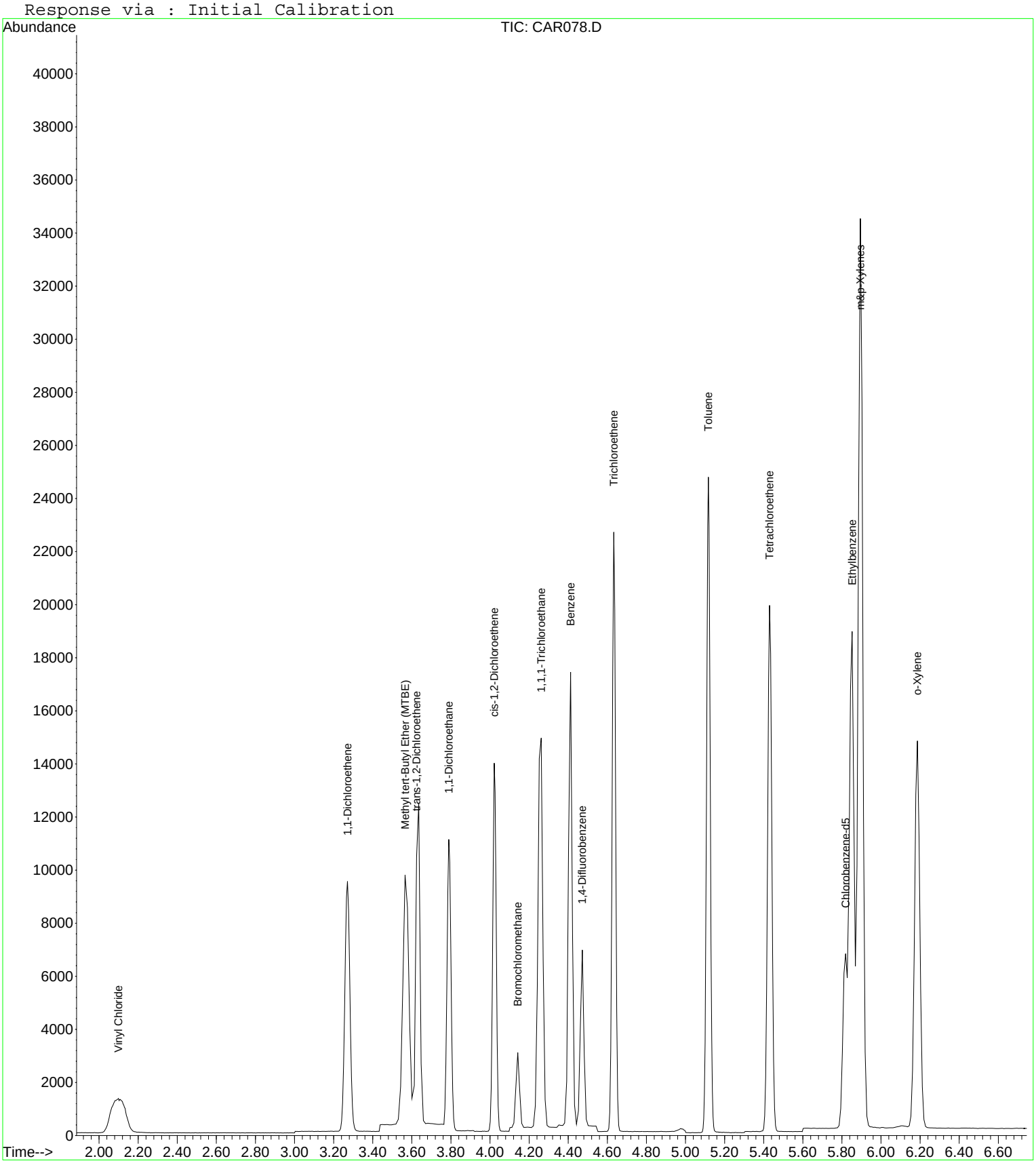
Target Compounds					Qvalue
2) Vinyl Chloride	2.10	62	5273	49.42 ppbv #	87
3) 1,1-Dichloroethene	3.27	61	8770	48.68 ppbv	96
4) Methyl tert-Butyl Ether (M	3.57	73	12264	50.09 ppbv #	16
5) trans-1,2-Dichloroethene	3.62	61	8292	50.36 ppbv	95
6) 1,1-Dichloroethane	3.79	63	11376	52.55 ppbv	95
7) cis-1,2-Dichloroethene	4.02	61	7461	41.72 ppbv	90
8) 1,1,1-Trichloroethane	4.26	97	12612	49.89 ppbv	97
10) Benzene	4.41	78	16168	52.99 ppbv	98
11) Trichloroethene	4.63	130	9800	46.19 ppbv	93
13) Toluene	5.12	91	20019	46.23 ppbv	99
14) Tetrachloroethene	5.43	166	11676	44.28 ppbv	97
15) Ethylbenzene	5.85	91	23713	44.05 ppbv	97
16) m&p-Xylenes	5.89	91	35341	91.47 ppbv	94
17) o-Xylene	6.19	91	17868	42.07 ppbv	94

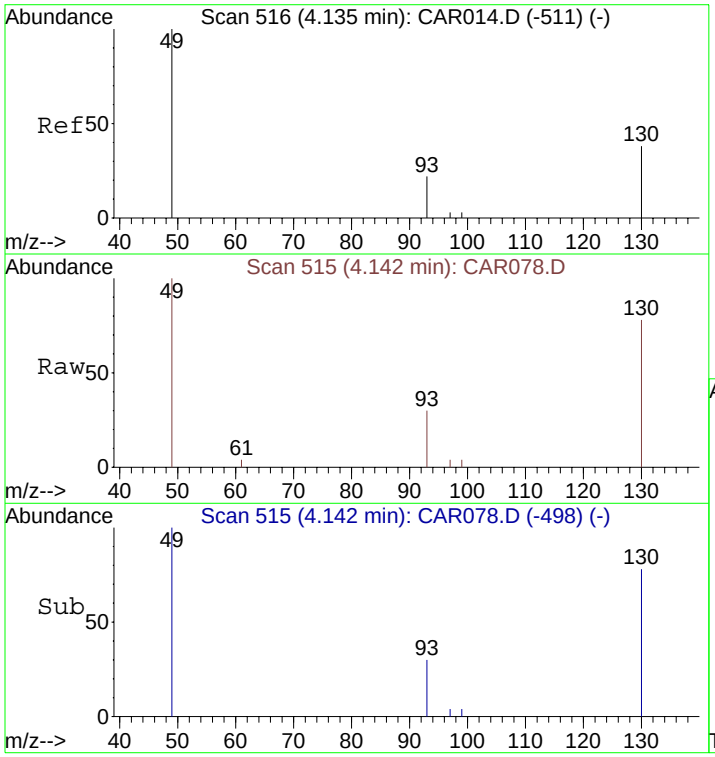
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR078.D Vial: 1
Acq On : 17 Sep 2008 8:49 Operator: dlm
Sample : STD20080917-4 Inst : Instrumen
Misc : 50 ppbv ICAL std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 17 8:59 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:18:47 2008
Response via : Initial Calibration

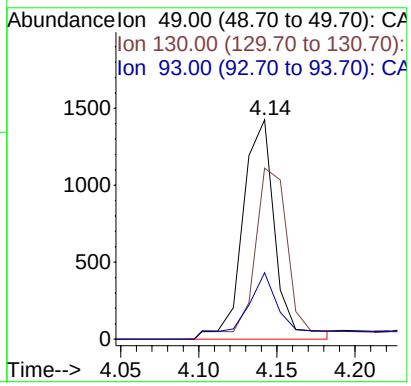


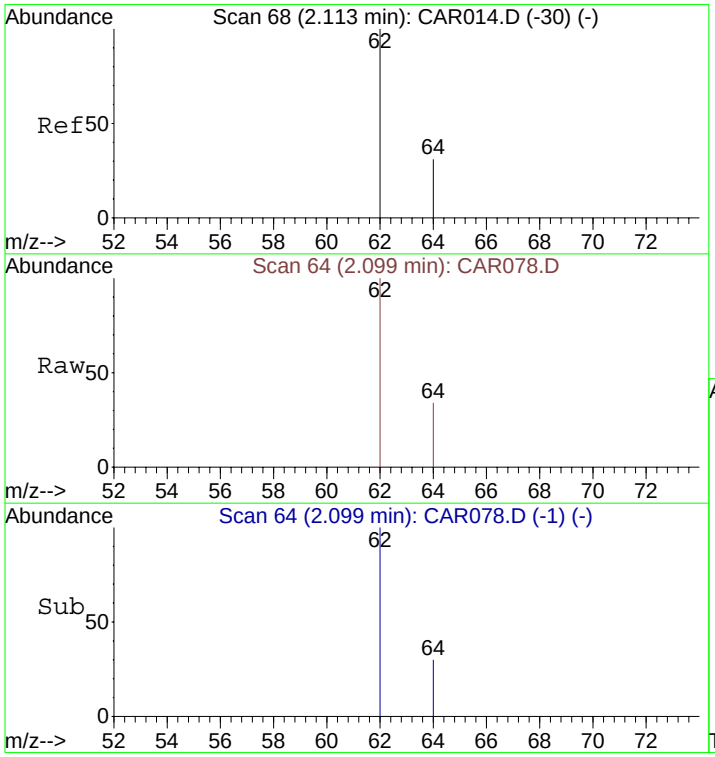


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 515
Delta R.T. 0.01 min
Lab File: CAR078.D
Acq: 17 Sep 2008 8:49

Tgt Ion: 49 Resp: 1847

Ion	Ratio	Lower	Upper
49	100		
130	82.2	65.1	97.7
93	34.0	33.8	50.6

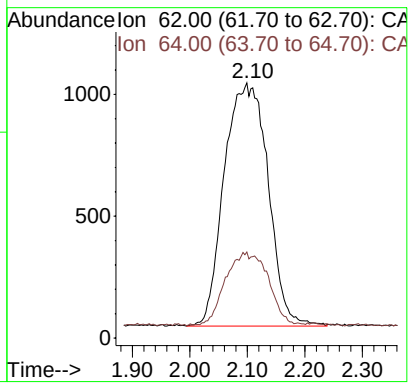


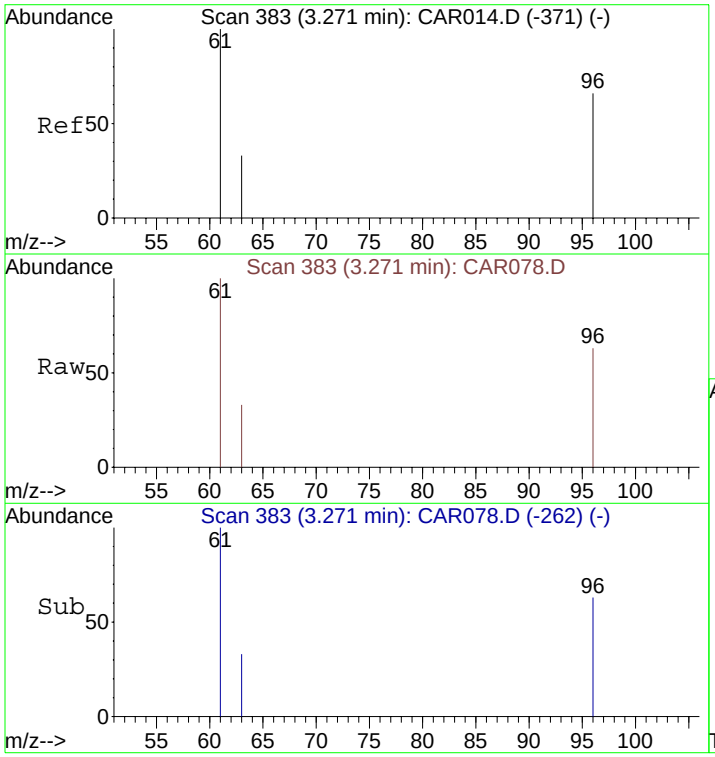


#2
Vinyl Chloride
Concen: 49.42 ppbv
RT: 2.10 min Scan# 64
Delta R.T. -0.01 min
Lab File: CAR078.D
Acq: 17 Sep 2008 8:49

Tgt Ion: 62 Resp: 5273

Ion	Ratio	Lower	Upper
62	100		
64	16.8	9.4	14.2#

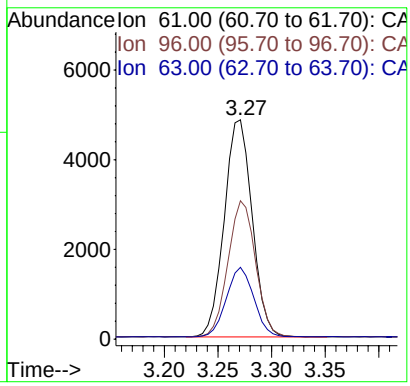


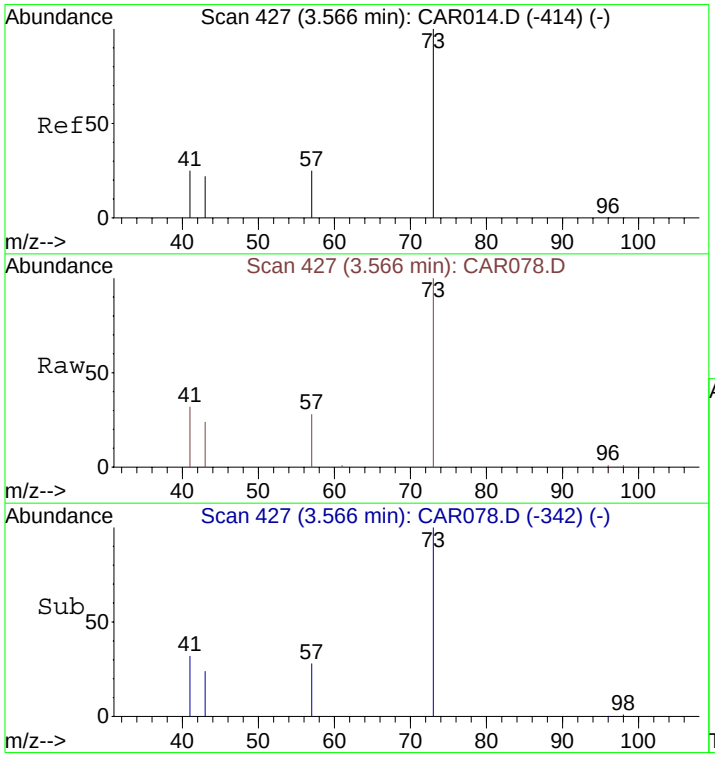


#3
1,1-Dichloroethene
Concen: 48.68 ppbv
RT: 3.27 min Scan# 383
Delta R.T. 0.00 min
Lab File: CAR078.D
Acq: 17 Sep 2008 8:49

Tgt Ion: 61 Resp: 8770

Ion	Ratio	Lower	Upper
61	100		
96	61.7	45.7	68.5
63	31.4	25.0	37.4

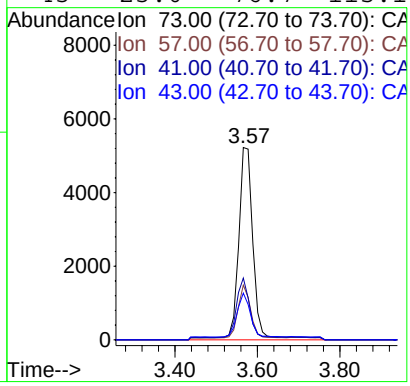


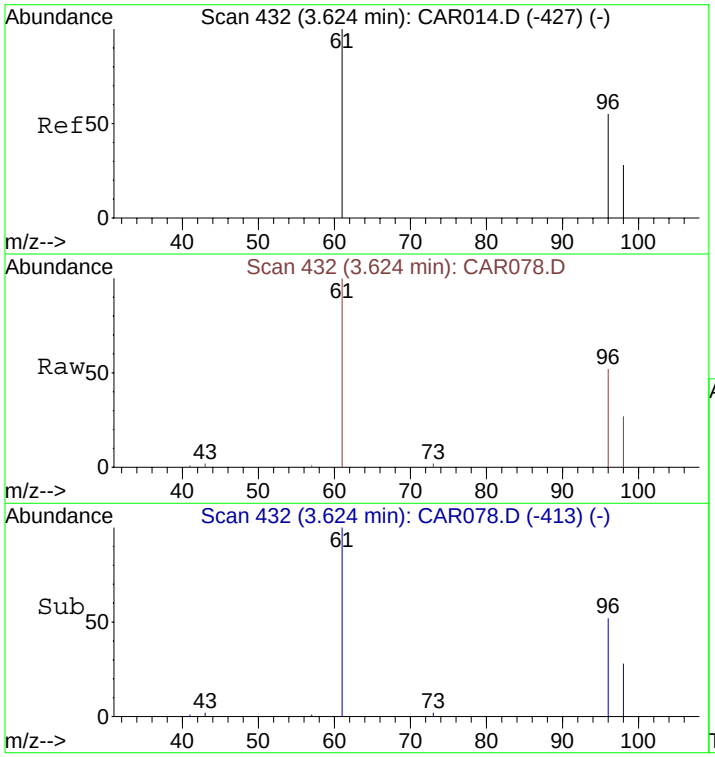


#4
Methyl tert-Butyl Ether (MTBE)
Concen: 50.09 ppbv
RT: 3.57 min Scan# 427
Delta R.T. 0.00 min
Lab File: CAR078.D
Acq: 17 Sep 2008 8:49

Tgt Ion: 73 Resp: 12264

Ion	Ratio	Lower	Upper
73	100		
57	25.9	32.6	49.0#
41	29.5	139.4	209.2#
43	23.0	76.7	115.1#

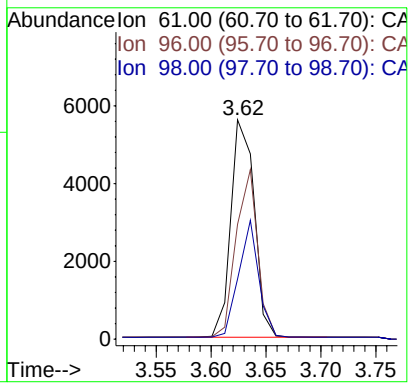


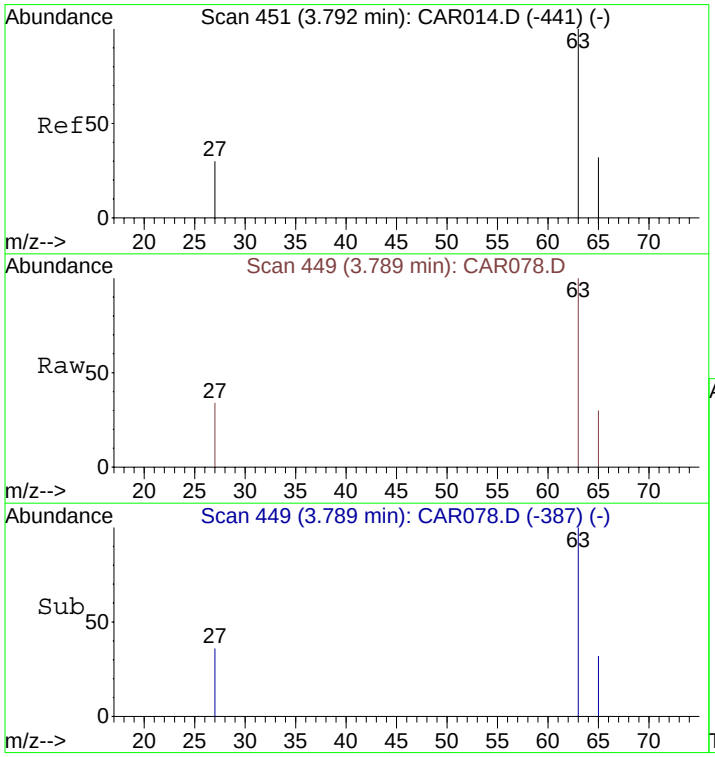


#5
trans-1,2-Dichloroethene
Concen: 50.36 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR078.D
Acq: 17 Sep 2008 8:49

Tgt Ion: 61 Resp: 8292

Ion	Ratio	Lower	Upper
61	100		
96	74.3	55.0	82.4
98	46.2	35.6	53.4

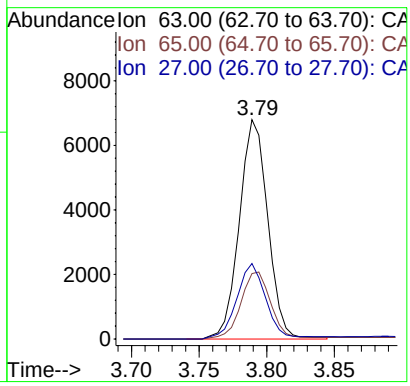


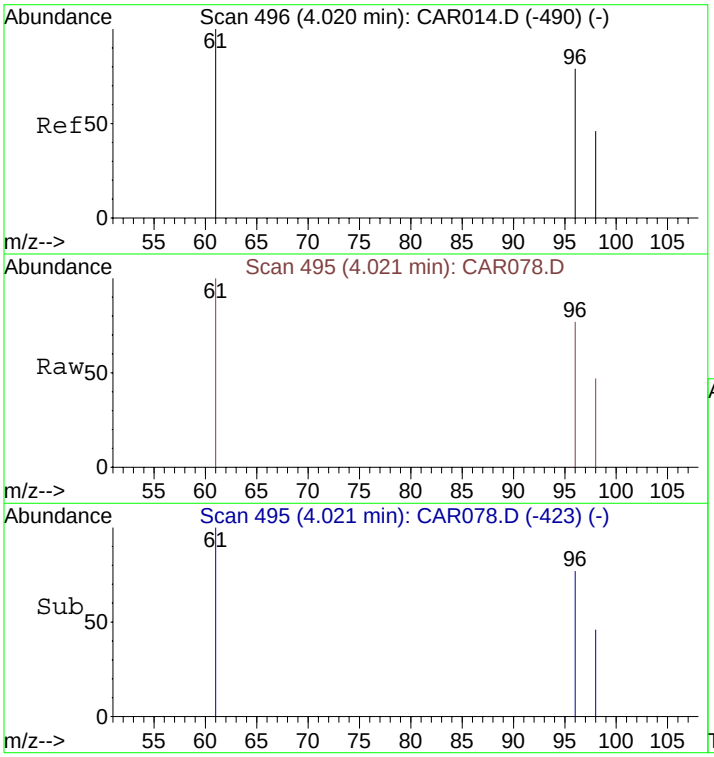


#6
1,1-Dichloroethane
Concen: 52.55 ppbv
RT: 3.79 min Scan# 449
Delta R.T. -0.00 min
Lab File: CAR078.D
Acq: 17 Sep 2008 8:49

Tgt Ion: 63 Resp: 11376

Ion	Ratio	Lower	Upper
63	100		
65	32.7	23.5	35.3
27	35.7	26.7	40.1

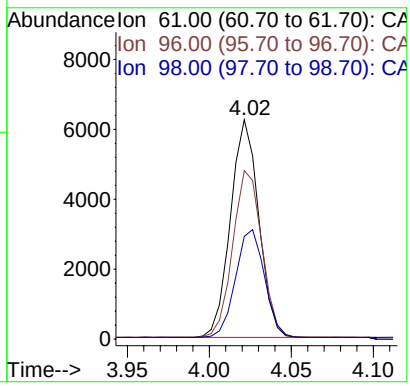


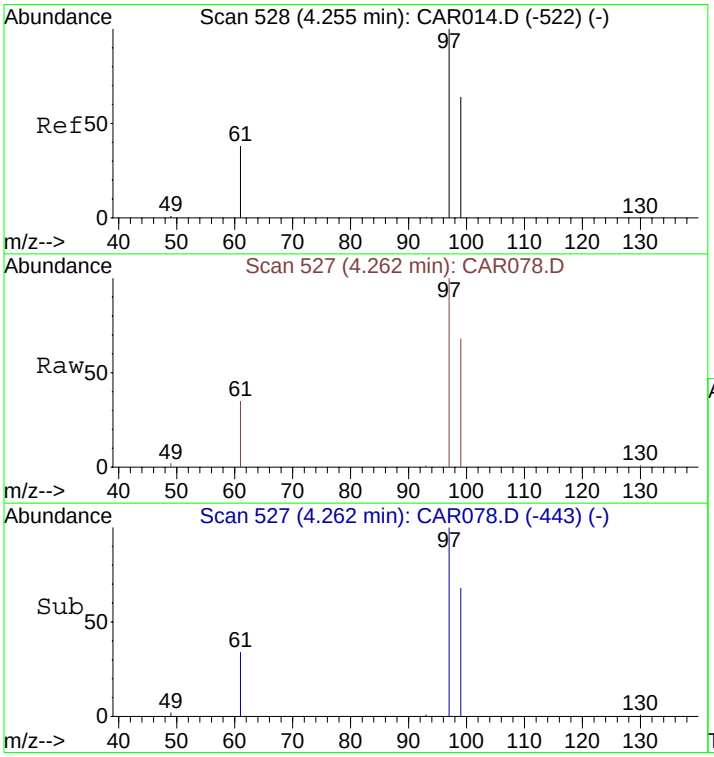


#7
cis-1,2-Dichloroethene
Concen: 41.72 ppbv
RT: 4.02 min Scan# 495
Delta R.T. 0.00 min
Lab File: CAR078.D
Acq: 17 Sep 2008 8:49

Tgt Ion: 61 Resp: 7461

Ion	Ratio	Lower	Upper
61	100		
96	78.7	56.0	84.0
98	50.8	36.2	54.4

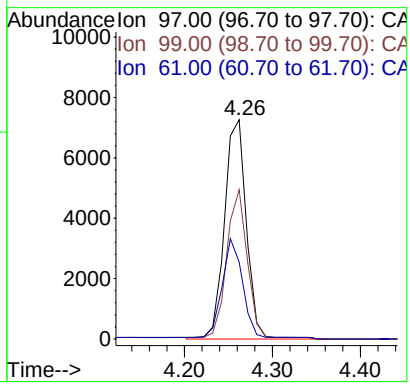


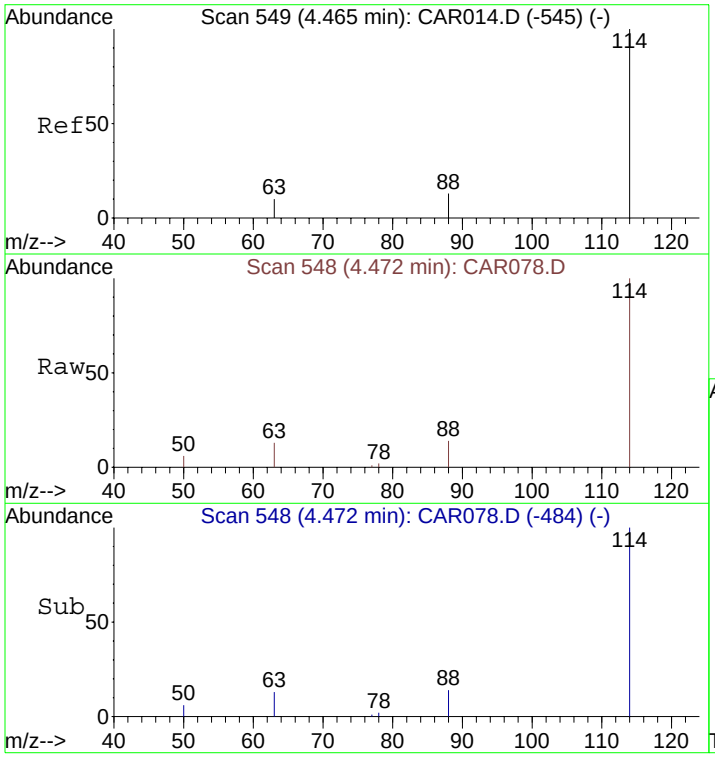


#8
1,1,1-Trichloroethane
Concen: 49.89 ppbv
RT: 4.26 min Scan# 527
Delta R.T. 0.01 min
Lab File: CAR078.D
Acq: 17 Sep 2008 8:49

Tgt Ion: 97 Resp: 12612

Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.8	77.8
61	44.3	32.1	48.1

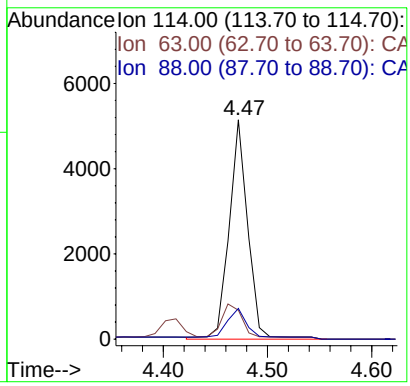


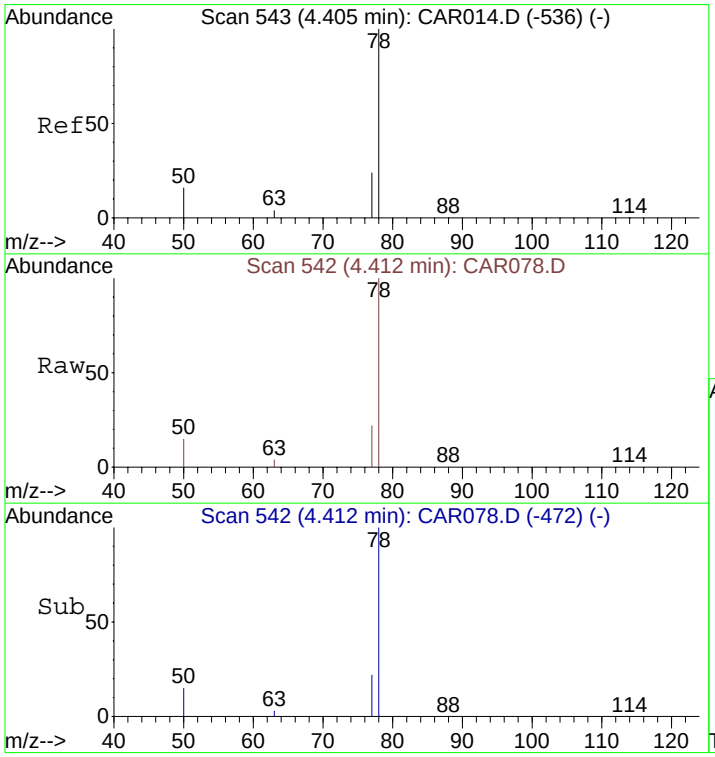


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 548
Delta R.T. 0.01 min
Lab File: CAR078.D
Acq: 17 Sep 2008 8:49

Tgt Ion:114 Resp: 6185

Ion	Ratio	Lower	Upper
114	100		
63	21.2	15.8	23.8
88	18.2	12.2	18.2

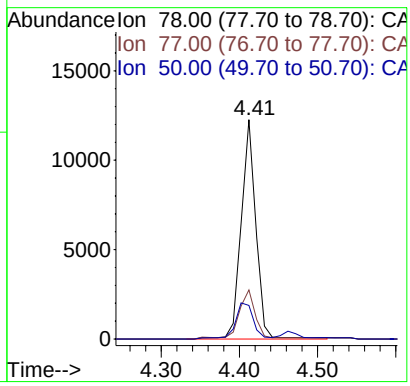


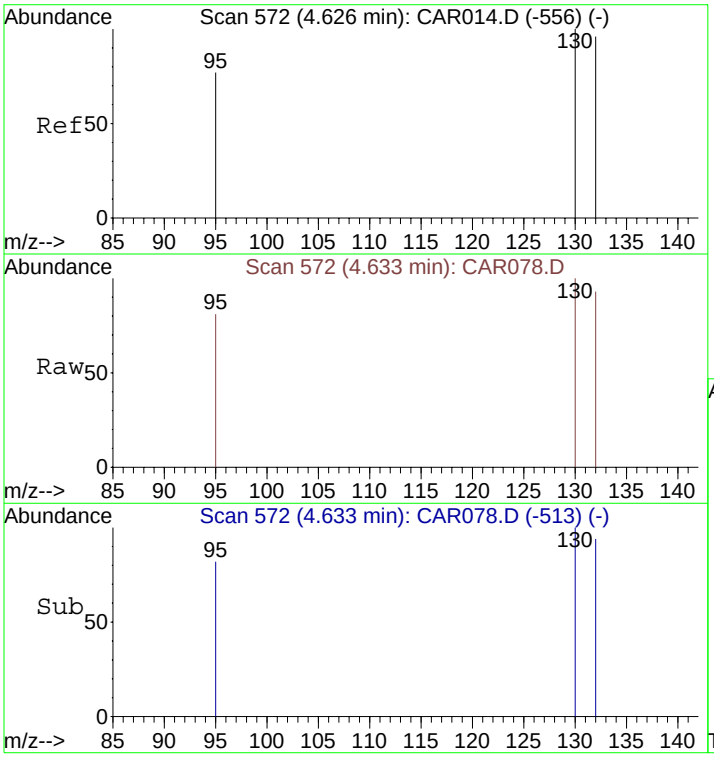


#10
Benzene
Concen: 52.99 ppbv
RT: 4.41 min Scan# 542
Delta R.T. 0.01 min
Lab File: CAR078.D
Acq: 17 Sep 2008 8:49

Tgt Ion: 78 Resp: 16168

Ion	Ratio	Lower	Upper
78	100		
77	25.3	18.6	28.0
50	20.3	16.2	24.4

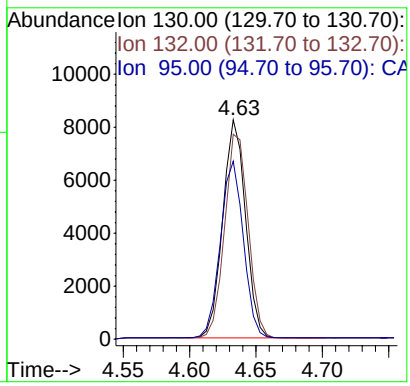


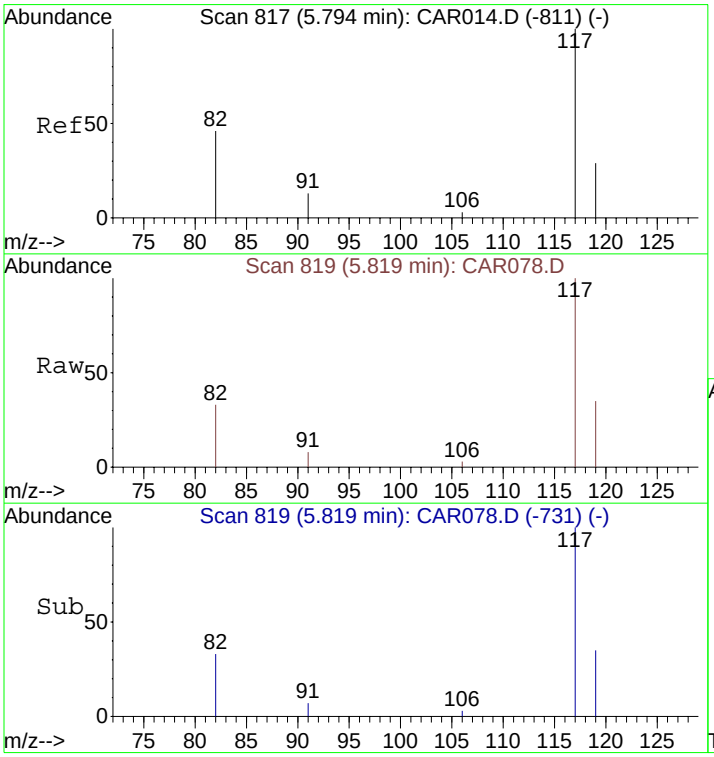


#11
Trichloroethene
Concen: 46.19 ppbv
RT: 4.63 min Scan# 572
Delta R.T. 0.01 min
Lab File: CAR078.D
Acq: 17 Sep 2008 8:49

Tgt Ion:130 Resp: 9800

Ion	Ratio	Lower	Upper
130	100		
132	96.5	73.8	110.6
95	81.5	72.5	108.7

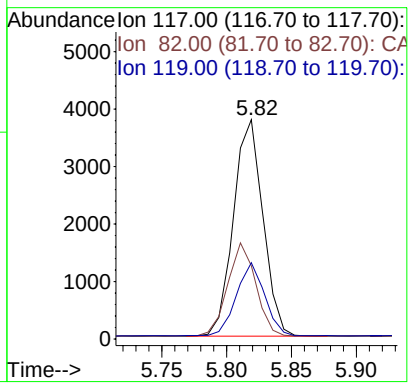


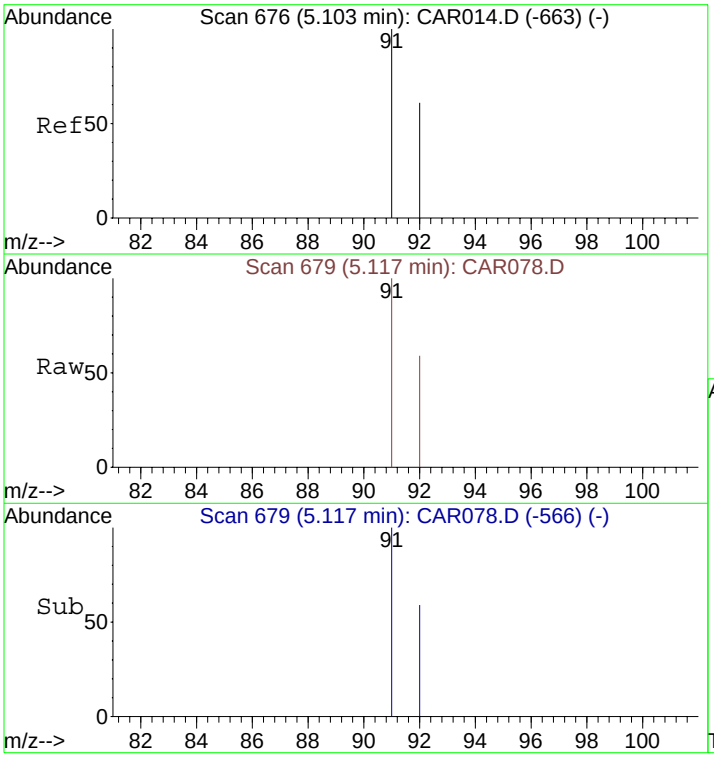


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.82 min Scan# 819
Delta R.T. 0.03 min
Lab File: CAR078.D
Acq: 17 Sep 2008 8:49

Tgt Ion:117 Resp: 5988

Ion	Ratio	Lower	Upper
117	100		
82	41.4	38.3	57.5
119	32.3	26.0	39.0

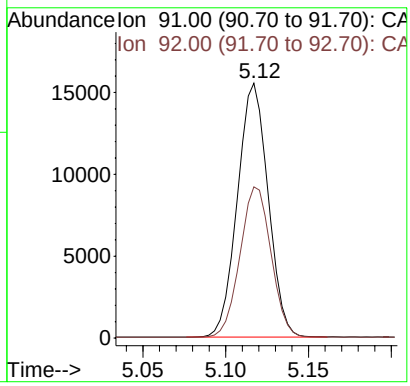


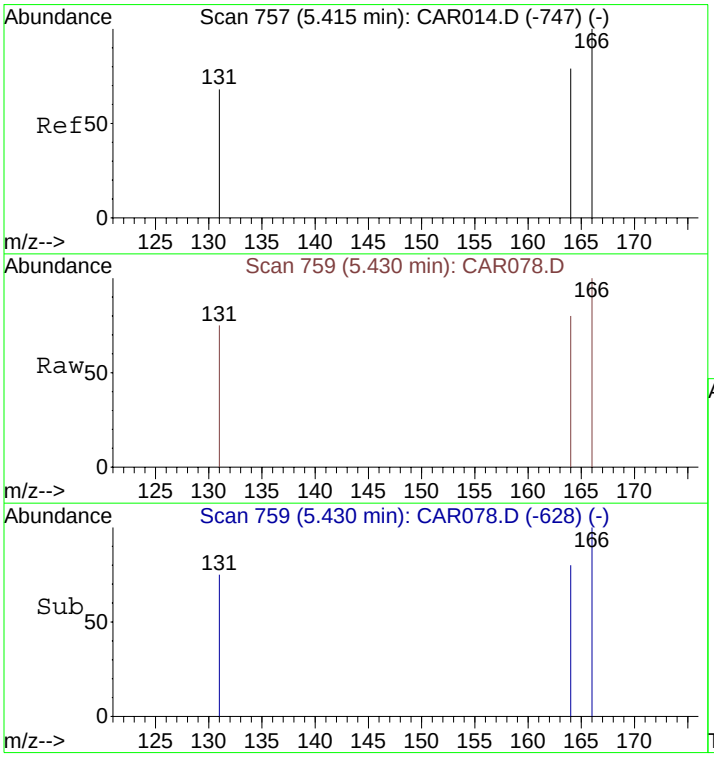


#13
Toluene
Concen: 46.23 ppbv
RT: 5.12 min Scan# 679
Delta R.T. 0.01 min
Lab File: CAR078.D
Acq: 17 Sep 2008 8:49

Tgt Ion: 91 Resp: 20019

Ion	Ratio	Lower	Upper
91	100		
92	59.8	48.2	72.2

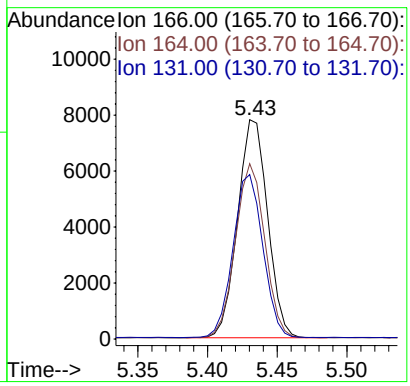


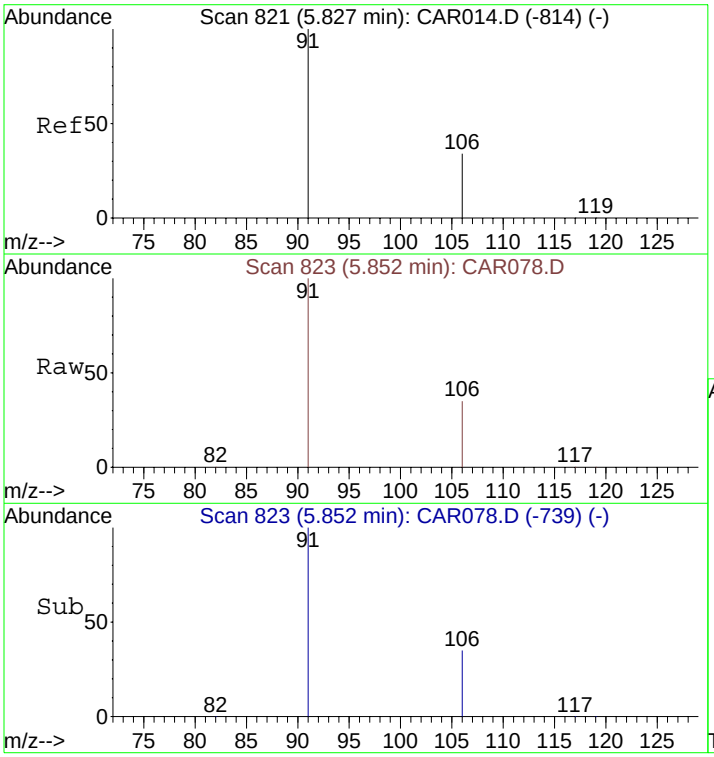


#14
Tetrachloroethene
Concen: 44.28 ppbv
RT: 5.43 min Scan# 759
Delta R.T. 0.02 min
Lab File: CAR078.D
Acq: 17 Sep 2008 8:49

Tgt Ion:166 Resp: 11676

Ion	Ratio	Lower	Upper
166	100		
164	78.0	63.1	94.7
131	74.1	62.9	94.3

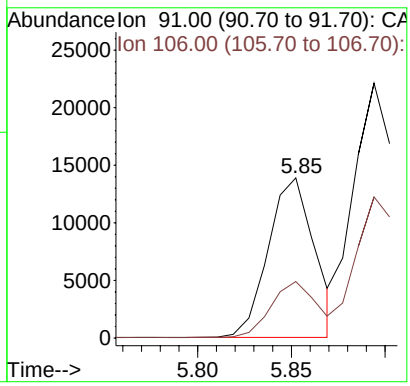


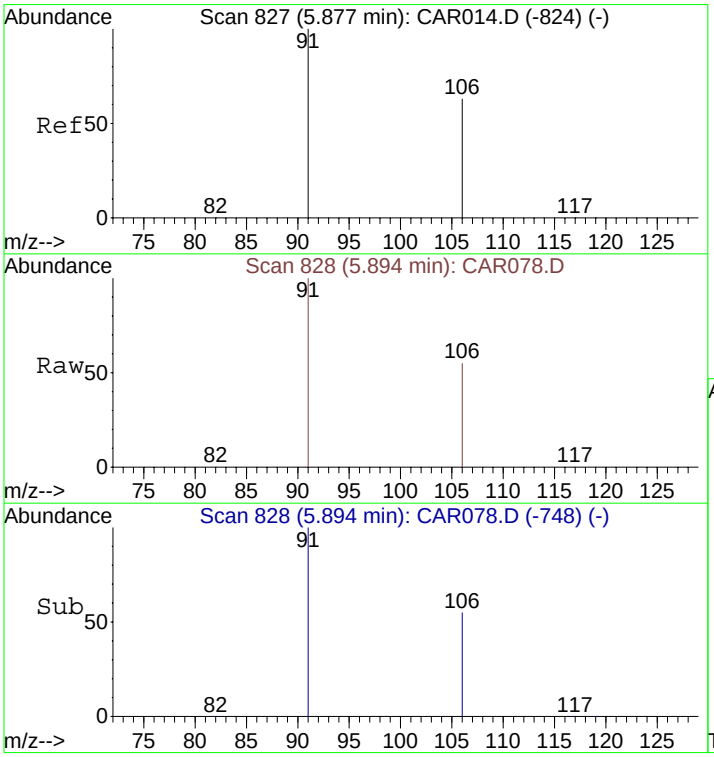


#15
Ethylbenzene
Concen: 44.05 ppbv
RT: 5.85 min Scan# 823
Delta R.T. 0.03 min
Lab File: CAR078.D
Acq: 17 Sep 2008 8:49

Tgt Ion: 91 Resp: 23713

Ion	Ratio	Lower	Upper
91	100		
106	34.8	26.3	39.5

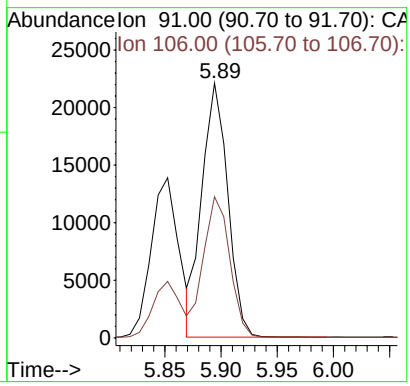


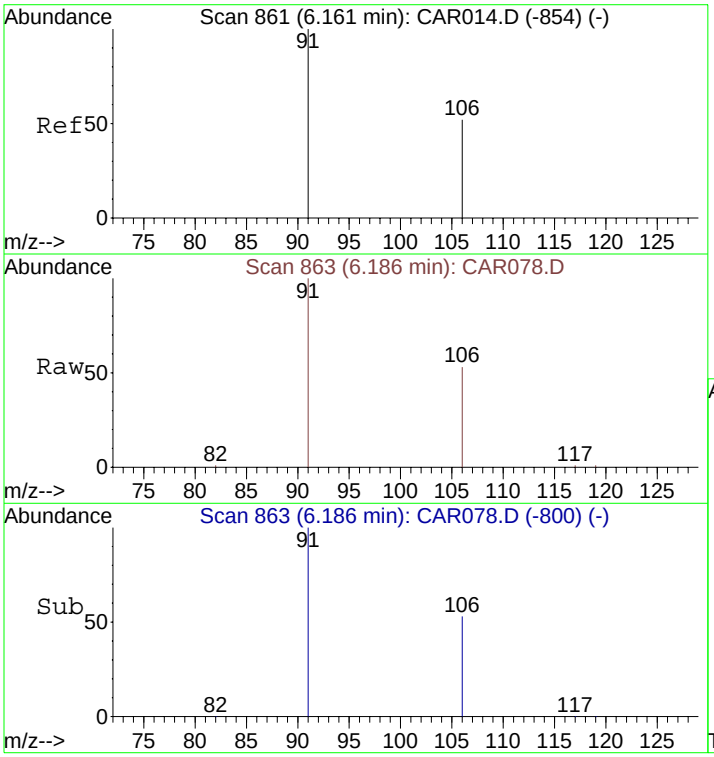


#16
m&p-Xylenes
Concen: 91.47 ppbv
RT: 5.89 min Scan# 828
Delta R.T. 0.02 min
Lab File: CAR078.D
Acq: 17 Sep 2008 8:49

Tgt Ion: 91 Resp: 35341

Ion	Ratio	Lower	Upper
91	100		
106	56.6	41.8	62.8

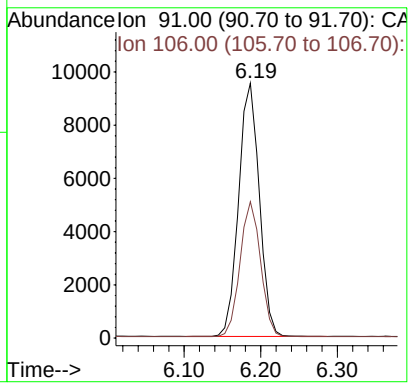




#17
o-Xylene
Concen: 42.07 ppbv
RT: 6.19 min Scan# 863
Delta R.T. 0.03 min
Lab File: CAR078.D
Acq: 17 Sep 2008 8:49

Tgt Ion: 91 Resp: 17868

Ion	Ratio	Lower	Upper
91	100		
106	52.8	38.9	58.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR079.D Vial: 1
Acq On : 17 Sep 2008 9:00 Operator: dlm
Sample : STD20080917-5 Inst : Instrumen
Misc : 5 ppbv ICAL std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 17 09:08:54 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 09:07:19 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.15	49	1893	10.00 ppbv	0.01
9) 1,4-Difluorobenzene	4.49	114	6046	10.00 ppbv	0.02
12) Chlorobenzene-d5	5.85	117	5880	10.00 ppbv	0.06

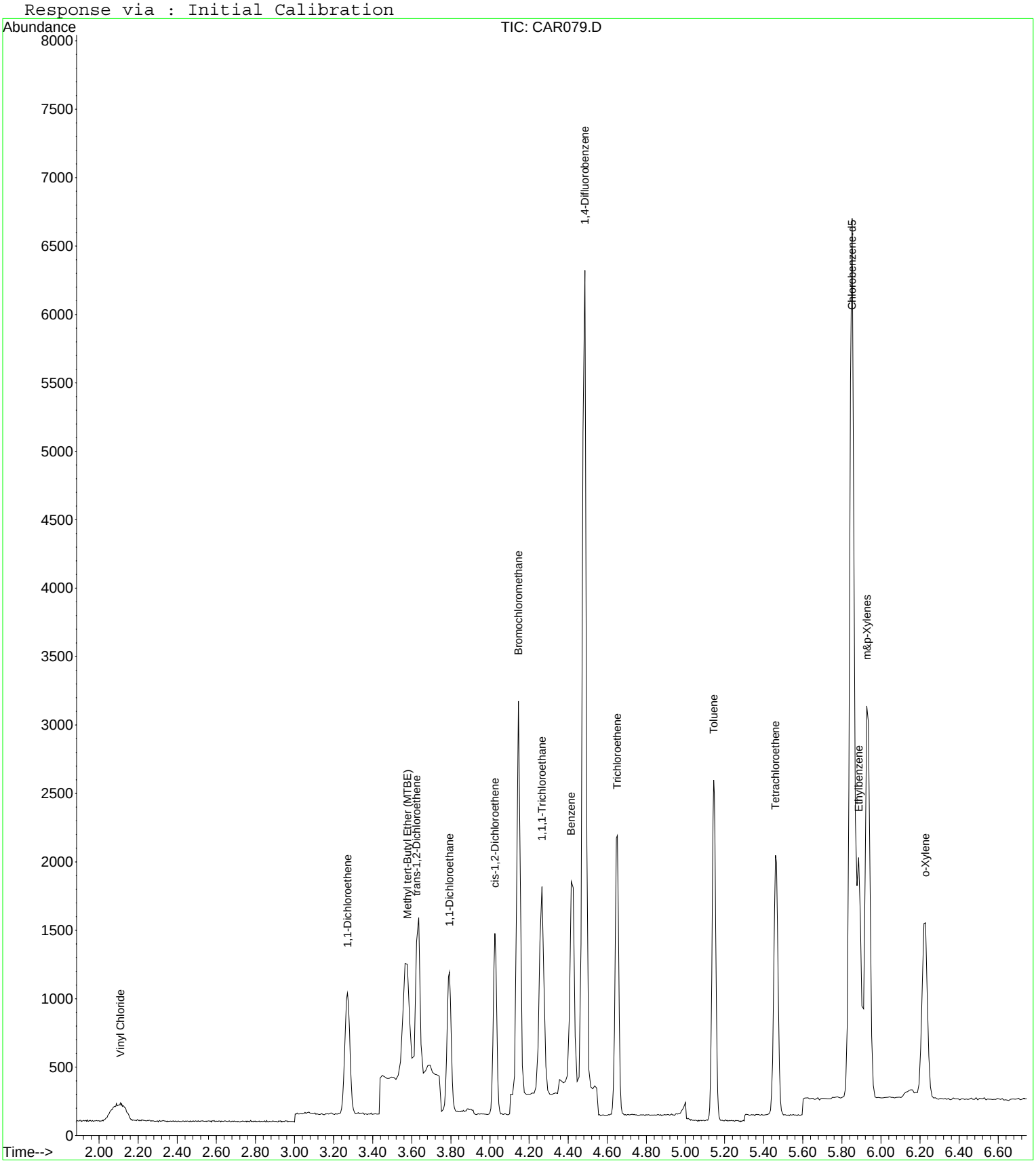
Target Compounds					Qvalue
2) Vinyl Chloride	2.11	62	535m	4.91 ppbv	
3) 1,1-Dichloroethene	3.27	61	830	4.52 ppbv	96
4) Methyl tert-Butyl Ether (M	3.58	73	1110m	4.42 ppbv	
5) trans-1,2-Dichloroethene	3.62	61	789m	4.67 ppbv	
6) 1,1-Dichloroethane	3.79	63	934m	4.16 ppbv	
7) cis-1,2-Dichloroethene	4.02	61	706	4.02 ppbv	89
8) 1,1,1-Trichloroethane	4.27	97	1201m	4.64 ppbv	
10) Benzene	4.43	78	1624m	5.36 ppbv	
11) Trichloroethene	4.65	130	953	4.68 ppbv	94
13) Toluene	5.14	91	2028	4.86 ppbv	99
14) Tetrachloroethene	5.47	166	1145	4.55 ppbv	96
15) Ethylbenzene	5.89	91	2374	4.63 ppbv	96
16) m&p-Xylenes	5.93	91	3012	6.58 ppbv	96
17) o-Xylene	6.22	91	1657	4.14 ppbv	92

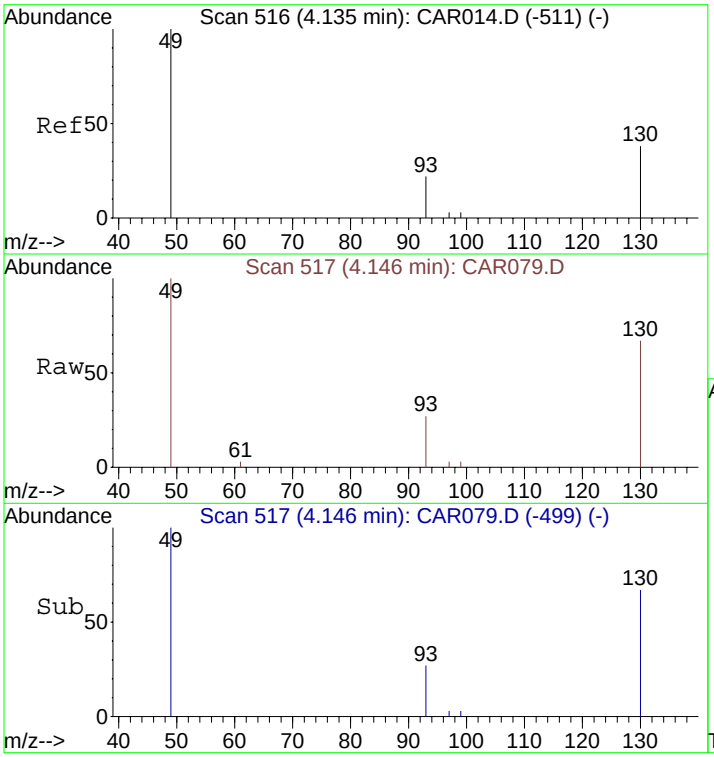
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR079.D Vial: 1
Acq On : 17 Sep 2008 9:00 Operator: dlm
Sample : STD20080917-5 Inst : Instrumen
Misc : 5 ppbv ICAL std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 17 9:10 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:18:47 2008
Response via : Initial Calibration

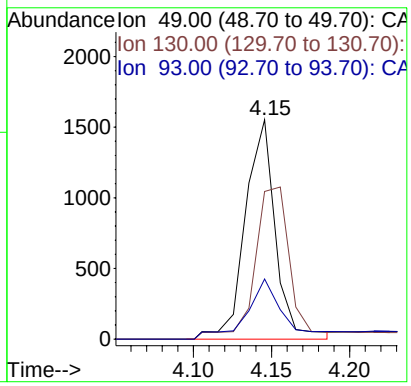


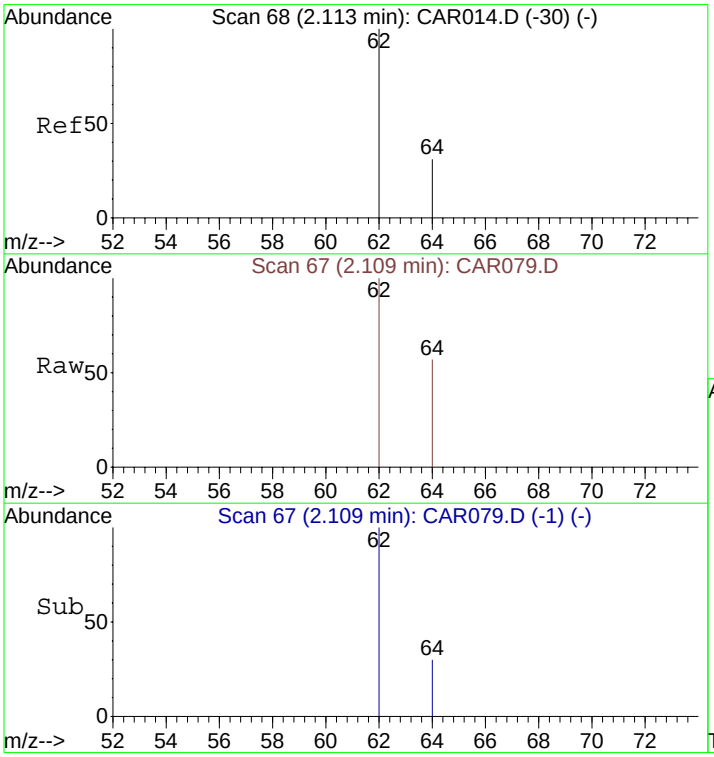


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.15 min Scan# 517
Delta R.T. 0.01 min
Lab File: CAR079.D
Acq: 17 Sep 2008 9:00

Tgt Ion: 49 Resp: 1893

Ion	Ratio	Lower	Upper
49	100		
130	80.5	65.1	97.7
93	35.1	33.8	50.6

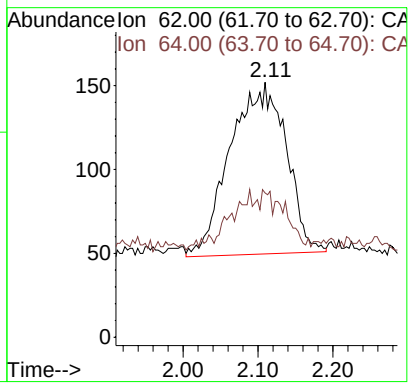


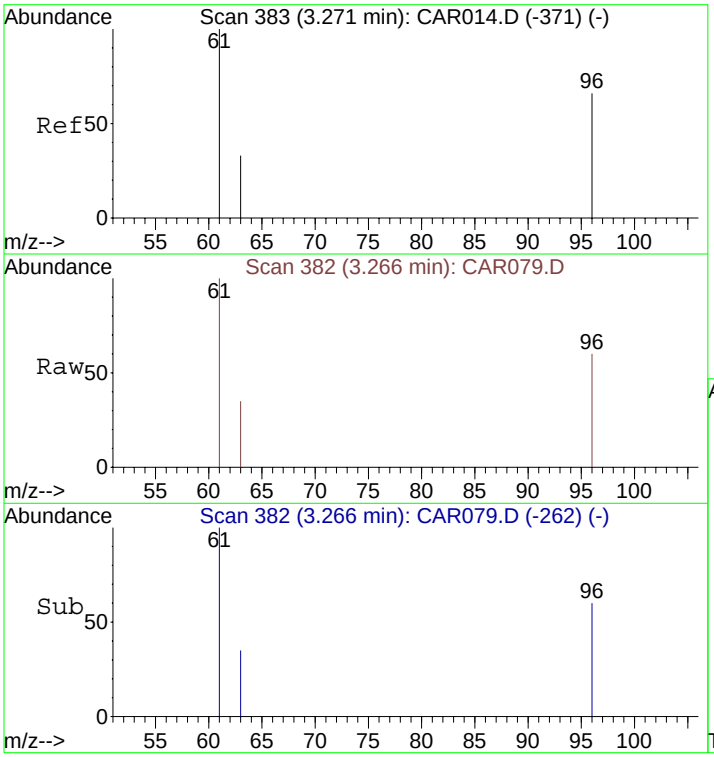


#2
Vinyl Chloride
Concen: 4.91 ppbv m
RT: 2.11 min Scan# 67
Delta R.T. -0.00 min
Lab File: CAR079.D
Acq: 17 Sep 2008 9:00

Tgt Ion: 62 Resp: 535

Ion	Ratio	Lower	Upper
62	100		
64	11.0	9.4	14.2

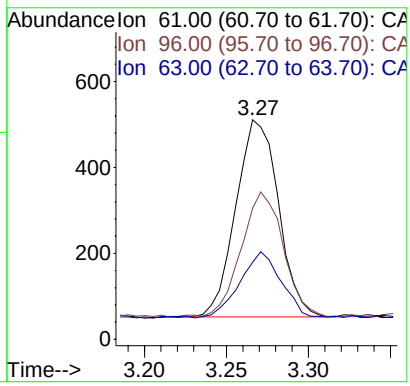


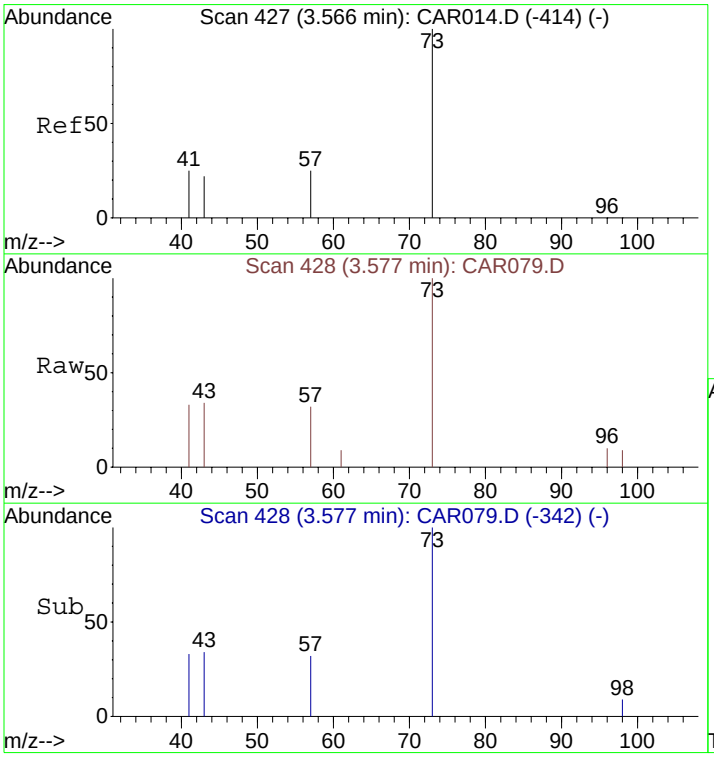


#3
1,1-Dichloroethene
Concen: 4.52 ppbv
RT: 3.27 min Scan# 382
Delta R.T. -0.00 min
Lab File: CAR079.D
Acq: 17 Sep 2008 9:00

Tgt Ion: 61 Resp: 830

Ion	Ratio	Lower	Upper
61	100		
96	61.9	45.7	68.5
63	31.3	25.0	37.4

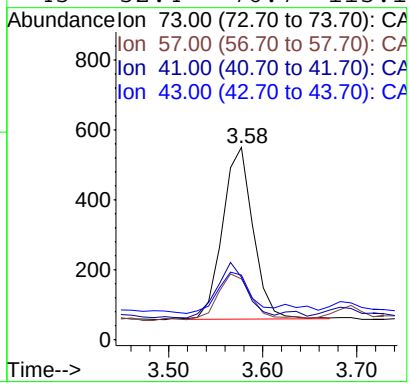


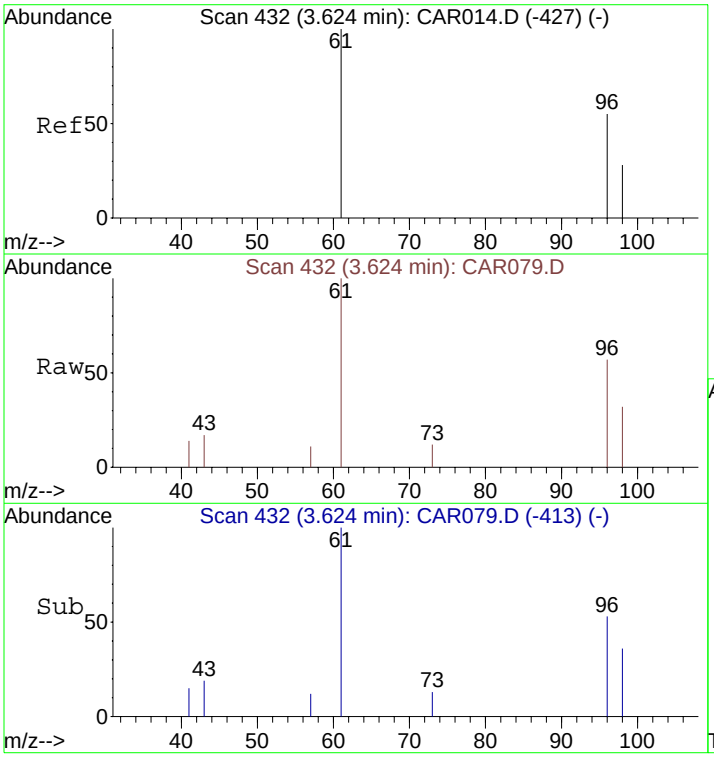


#4
Methyl tert-Butyl Ether (MTBE)
Concen: 4.42 ppbv m
RT: 3.58 min Scan# 428
Delta R.T. 0.01 min
Lab File: CAR079.D
Acq: 17 Sep 2008 9:00

Tgt Ion: 73 Resp: 1110

Ion	Ratio	Lower	Upper
73	100		
57	68.8	32.6	49.0#
41	63.0	139.4	209.2#
43	32.4	76.7	115.1#

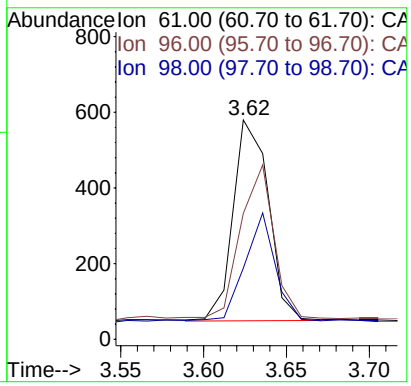


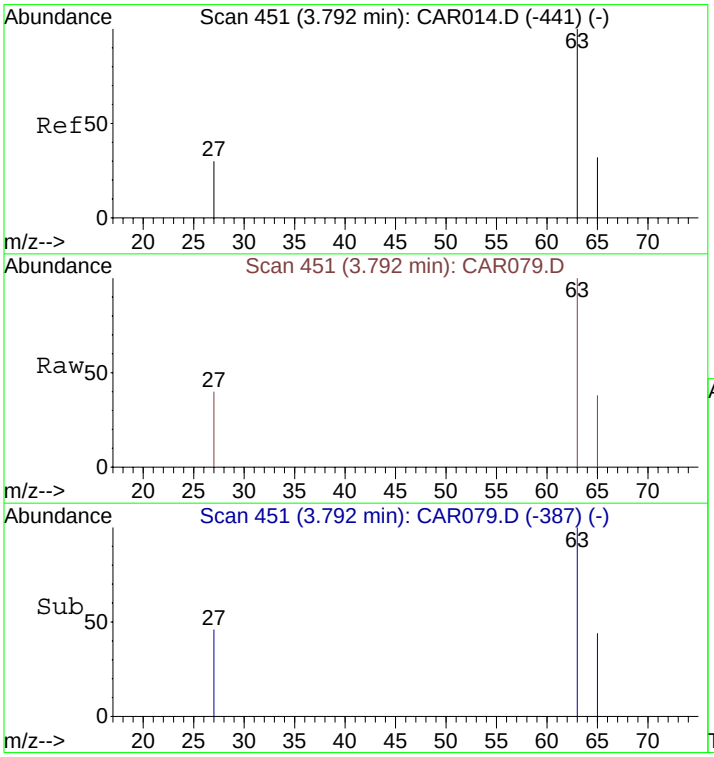


#5
trans-1,2-Dichloroethene
Concen: 4.67 ppbv m
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR079.D
Acq: 17 Sep 2008 9:00

Tgt Ion: 61 Resp: 789

Ion	Ratio	Lower	Upper
61	100		
96	71.4	55.0	82.4
98	46.6	35.6	53.4

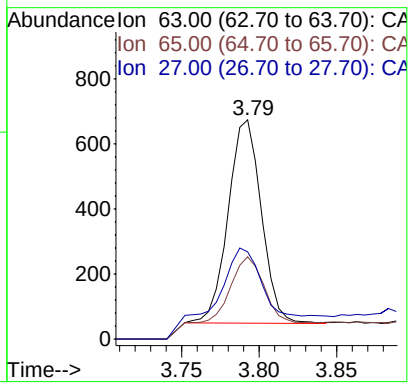


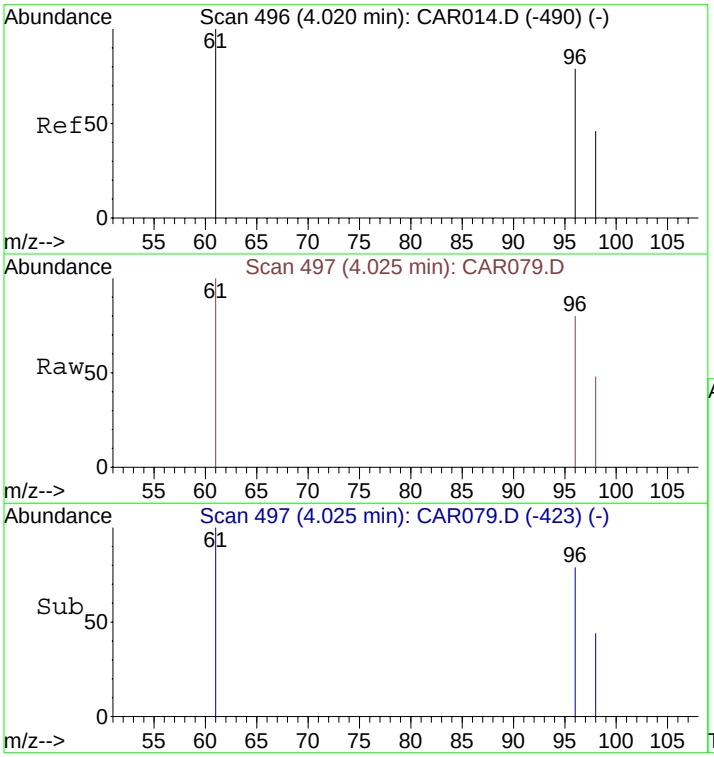


#6
1,1-Dichloroethane
Concen: 4.16 ppbv m
RT: 3.79 min Scan# 451
Delta R.T. 0.00 min
Lab File: CAR079.D
Acq: 17 Sep 2008 9:00

Tgt Ion: 63 Resp: 934

Ion	Ratio	Lower	Upper
63	100		
65	69.7	23.5	35.3#
27	89.6	26.7	40.1#

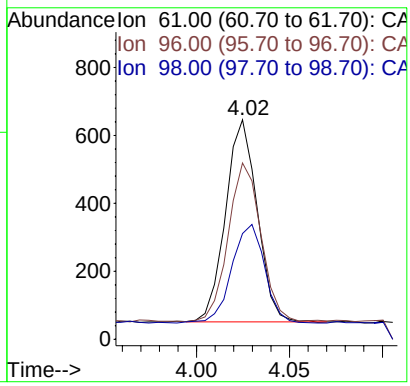


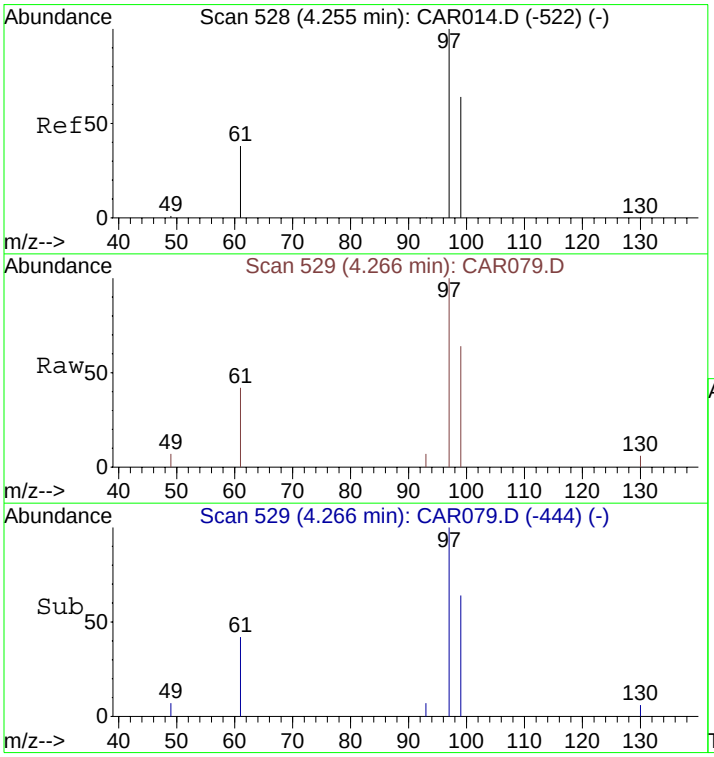


#7
cis-1,2-Dichloroethene
Concen: 4.02 ppbv
RT: 4.02 min Scan# 497
Delta R.T. 0.01 min
Lab File: CAR079.D
Acq: 17 Sep 2008 9:00

Tgt Ion: 61 Resp: 706

Ion	Ratio	Lower	Upper
61	100		
96	80.9	56.0	84.0
98	50.6	36.2	54.4

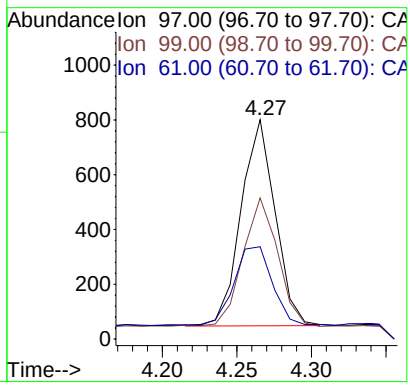


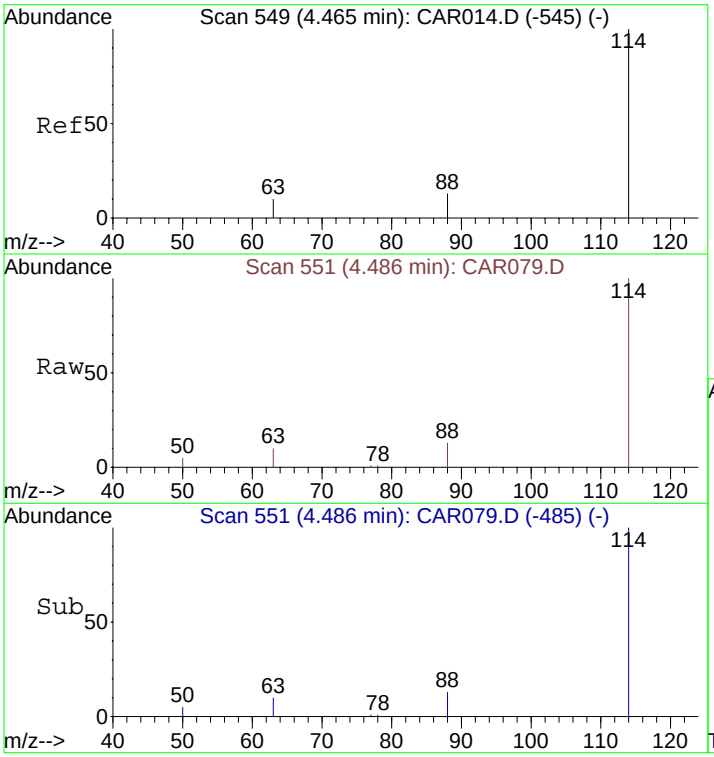


#8
1,1,1-Trichloroethane
Concen: 4.64 ppbv m
RT: 4.27 min Scan# 529
Delta R.T. 0.01 min
Lab File: CAR079.D
Acq: 17 Sep 2008 9:00

Tgt Ion: 97 Resp: 1201

Ion	Ratio	Lower	Upper
97	100		
99	62.9	51.8	77.8
61	43.0	32.1	48.1

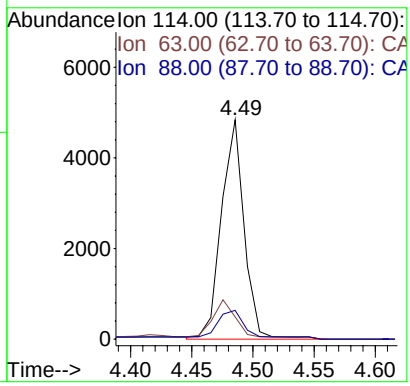


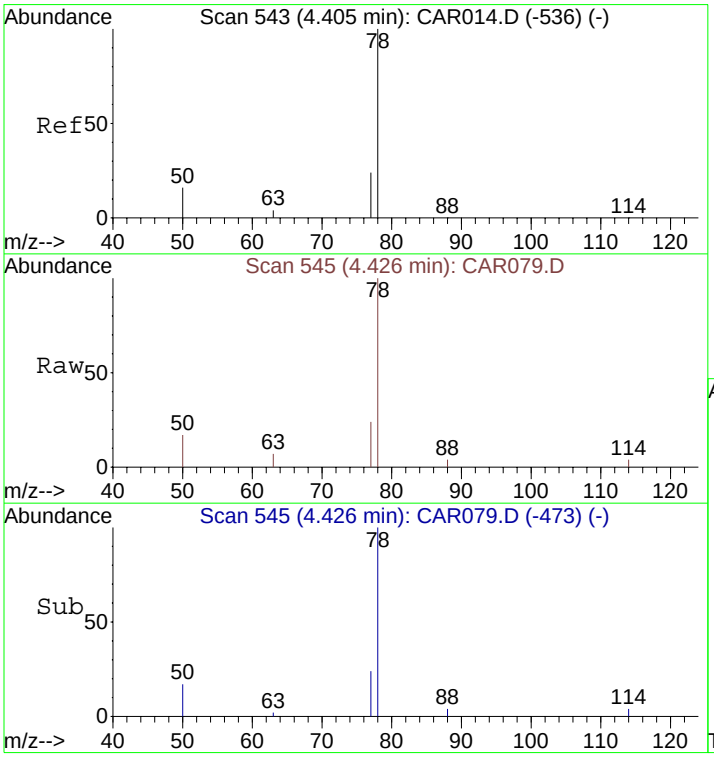


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.49 min Scan# 551
Delta R.T. 0.02 min
Lab File: CAR079.D
Acq: 17 Sep 2008 9:00

Tgt Ion:114 Resp: 6046

Ion	Ratio	Lower	Upper
114	100		
63	17.4	15.8	23.8
88	17.3	12.2	18.2

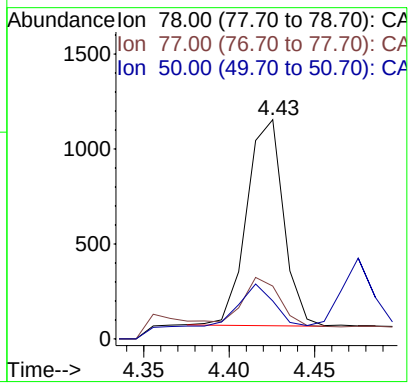


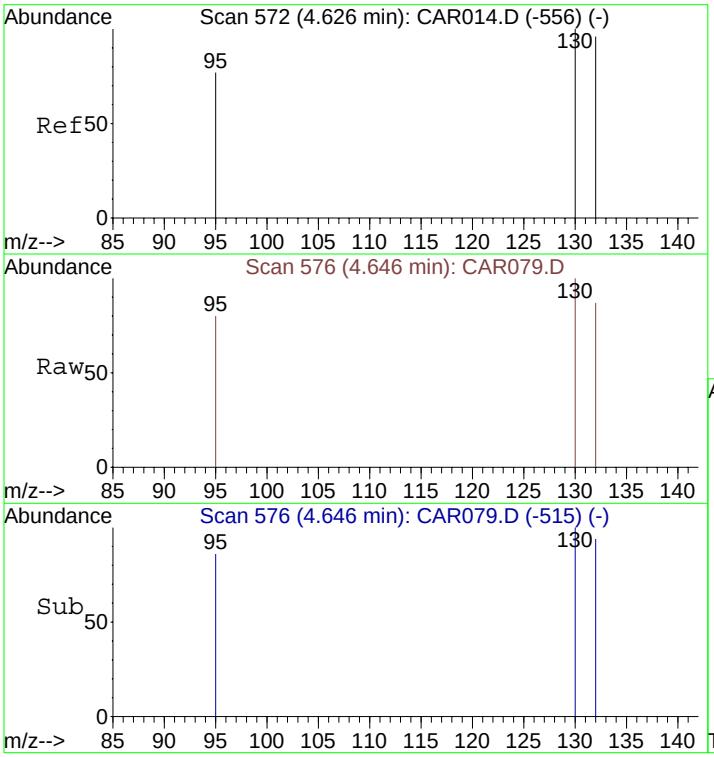


#10
Benzene
Concen: 5.36 ppbv m
RT: 4.43 min Scan# 545
Delta R.T. 0.02 min
Lab File: CAR079.D
Acq: 17 Sep 2008 9:00

Tgt Ion: 78 Resp: 1624

Ion	Ratio	Lower	Upper
78	100		
77	28.1	18.6	28.0#
50	43.5	16.2	24.4#

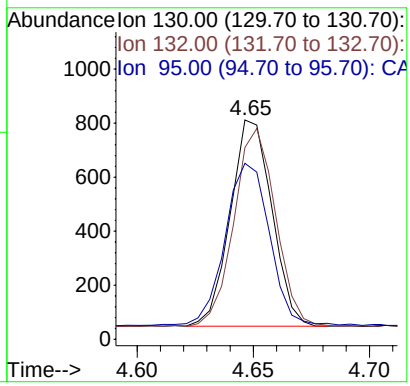


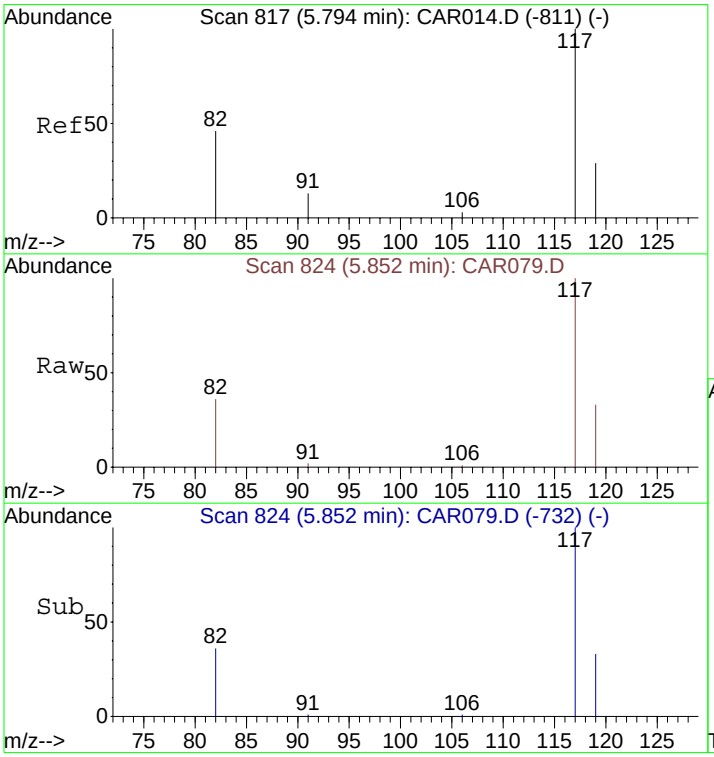


#11
Trichloroethene
Concen: 4.68 ppbv
RT: 4.65 min Scan# 576
Delta R.T. 0.02 min
Lab File: CAR079.D
Acq: 17 Sep 2008 9:00

Tgt Ion:130 Resp: 953

Ion	Ratio	Lower	Upper
130	100		
132	96.2	73.8	110.6
95	83.6	72.5	108.7

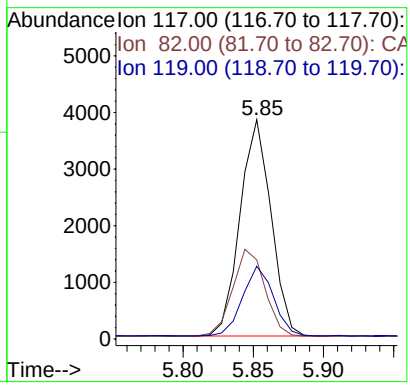


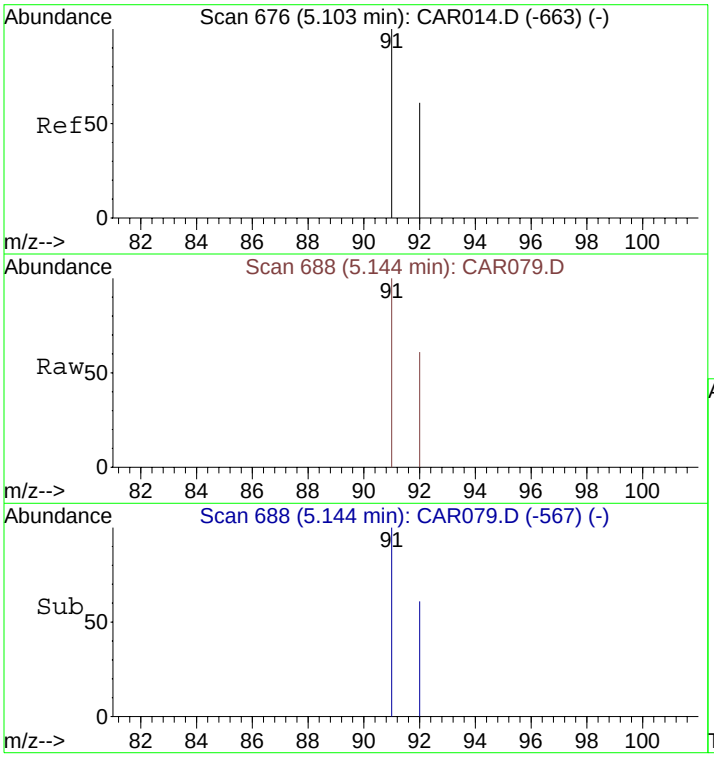


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.85 min Scan# 824
Delta R.T. 0.06 min
Lab File: CAR079.D
Acq: 17 Sep 2008 9:00

Tgt Ion:117 Resp: 5880

Ion	Ratio	Lower	Upper
117	100		
82	41.6	38.3	57.5
119	32.0	26.0	39.0

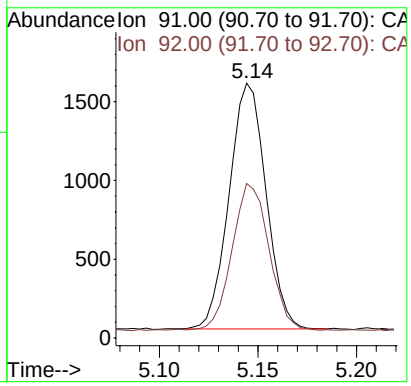


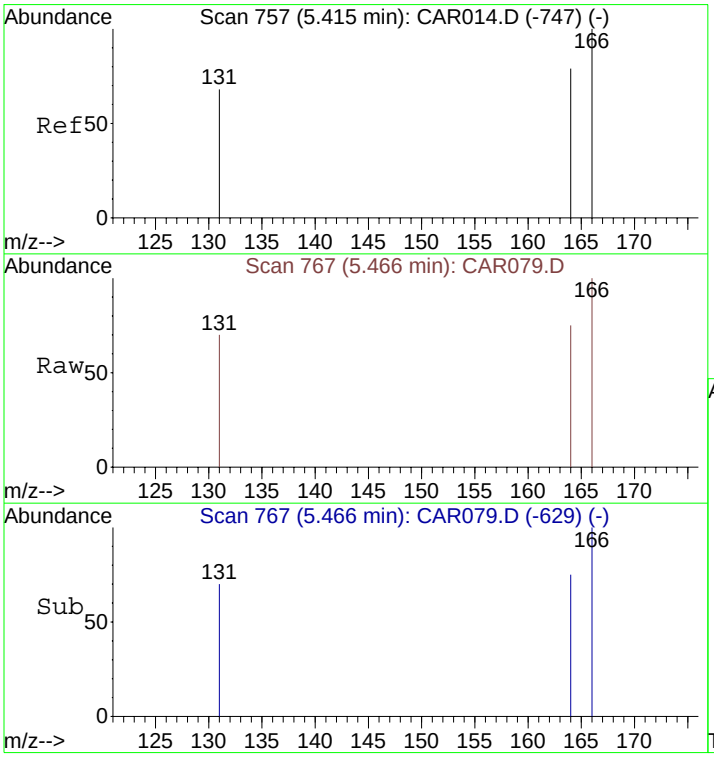


#13
Toluene
Concen: 4.86 ppbv
RT: 5.14 min Scan# 688
Delta R.T. 0.04 min
Lab File: CAR079.D
Acq: 17 Sep 2008 9:00

Tgt Ion: 91 Resp: 2028

Ion	Ratio	Lower	Upper
91	100		
92	59.5	48.2	72.2

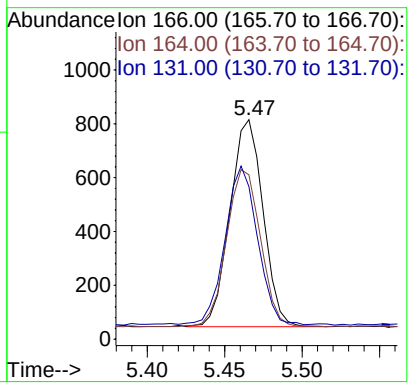


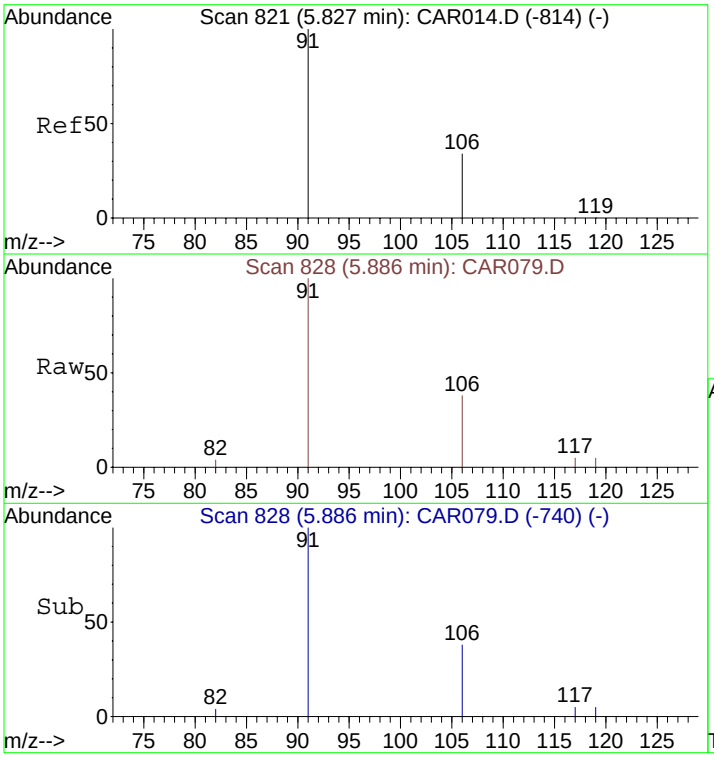


#14
Tetrachloroethene
Concen: 4.55 ppbv
RT: 5.47 min Scan# 767
Delta R.T. 0.05 min
Lab File: CAR079.D
Acq: 17 Sep 2008 9:00

Tgt Ion:166 Resp: 1145

Ion	Ratio	Lower	Upper
166	100		
164	77.0	63.1	94.7
131	74.0	62.9	94.3

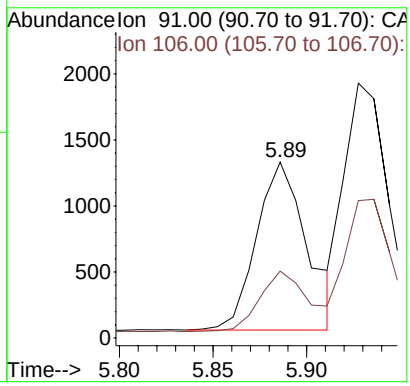


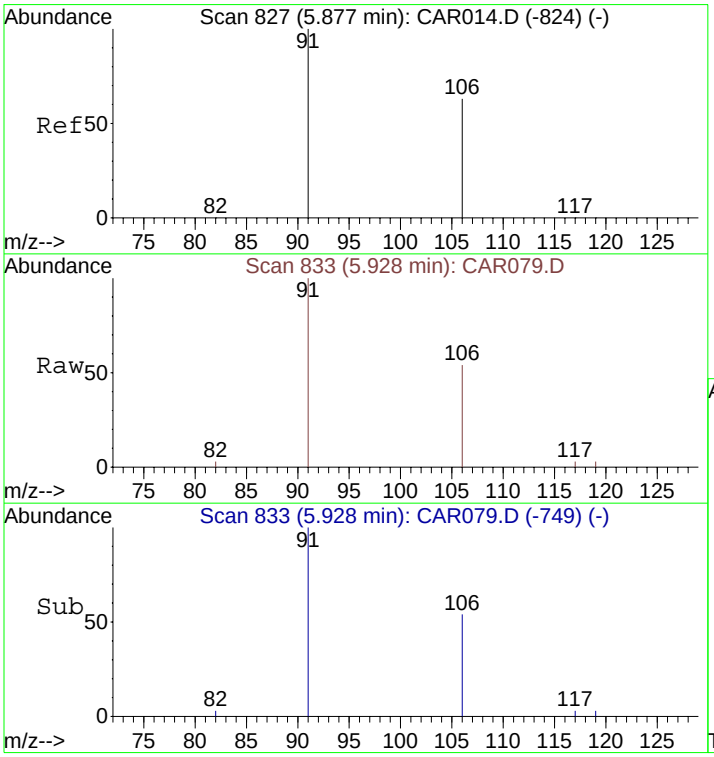


#15
Ethylbenzene
Concen: 4.63 ppbv
RT: 5.89 min Scan# 828
Delta R.T. 0.06 min
Lab File: CAR079.D
Acq: 17 Sep 2008 9:00

Tgt Ion: 91 Resp: 2374

Ion	Ratio	Lower	Upper
91	100		
106	35.0	26.3	39.5

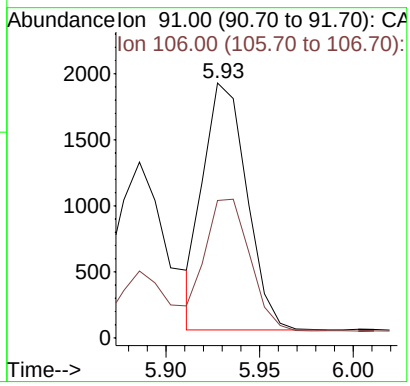


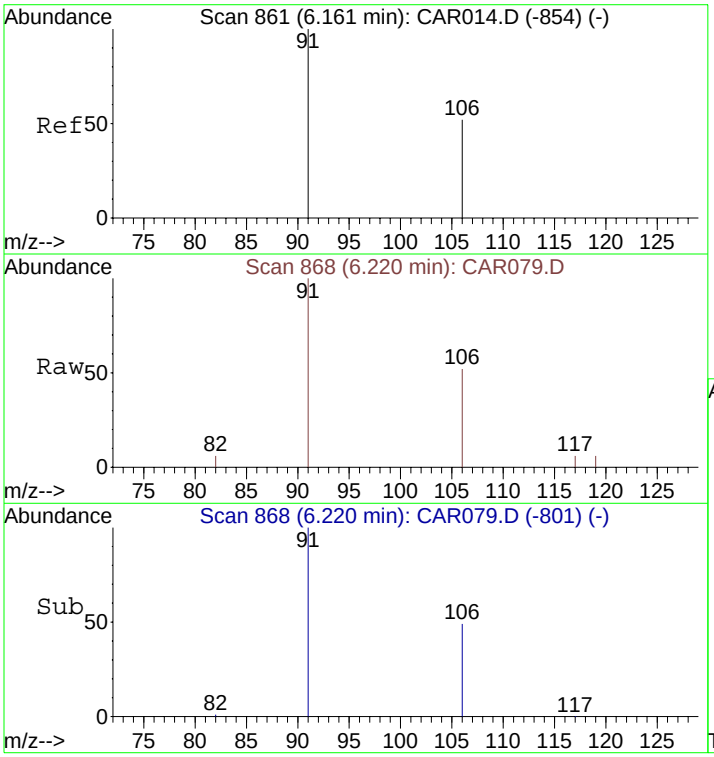


#16
m&p-Xylenes
Concen: 6.58 ppbv
RT: 5.93 min Scan# 833
Delta R.T. 0.05 min
Lab File: CAR079.D
Acq: 17 Sep 2008 9:00

Tgt Ion: 91 Resp: 3012

Ion	Ratio	Lower	Upper
91	100		
106	55.3	41.8	62.8

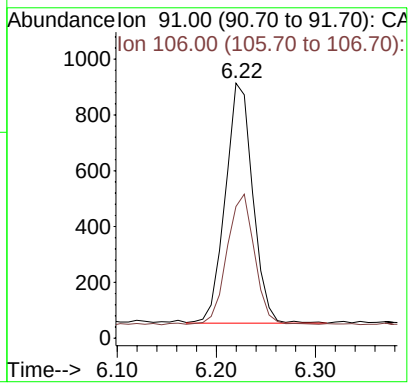




#17
o-Xylene
Concen: 4.14 ppbv
RT: 6.22 min Scan# 868
Delta R.T. 0.06 min
Lab File: CAR079.D
Acq: 17 Sep 2008 9:00

Tgt Ion: 91 Resp: 1657

Ion	Ratio	Lower	Upper
91	100		
106	54.1	38.9	58.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR080.D Vial: 1
Acq On : 17 Sep 2008 9:11 Operator: dlm
Sample : STD20080917-6 Inst : Instrumen
Misc : 0.5 ppbv ICAL std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 17 09:19:44 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 09:12:52 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.13	49	1904	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	5972	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.82	117	5805	10.00 ppbv	0.03

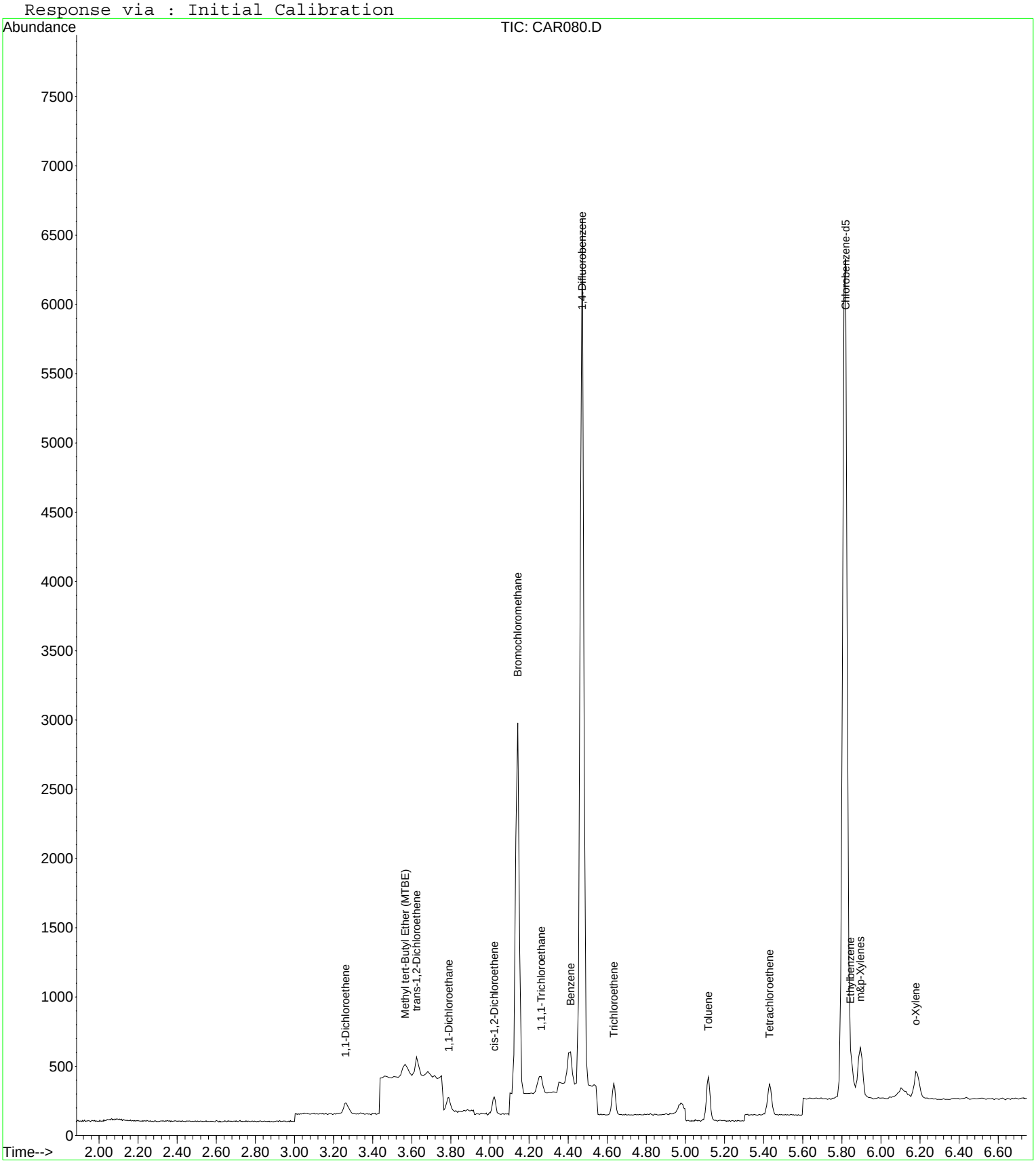
Target Compounds					Qvalue
3) 1,1-Dichloroethene	3.26	61	82	0.45 ppbv #	79
4) Methyl tert-Butyl Ether (M	3.57	73	120m	0.49 ppbv	
5) trans-1,2-Dichloroethene	3.62	61	85	0.51 ppbv	92
6) 1,1-Dichloroethane	3.78	63	88m	0.40 ppbv	
7) cis-1,2-Dichloroethene	4.02	61	70	0.41 ppbv	88
8) 1,1,1-Trichloroethane	4.25	97	124	0.48 ppbv #	90
10) Benzene	4.41	78	280m	0.92 ppbv	
11) Trichloroethene	4.63	130	115m	0.58 ppbv	
13) Toluene	5.11	91	258	0.63 ppbv	100
14) Tetrachloroethene	5.43	166	126	0.52 ppbv	98
15) Ethylbenzene	5.85	91	269m	0.54 ppbv	
16) m&p-Xylenes	5.89	91	410	1.16 ppbv	97
17) o-Xylene	6.18	91	247	0.65 ppbv	95

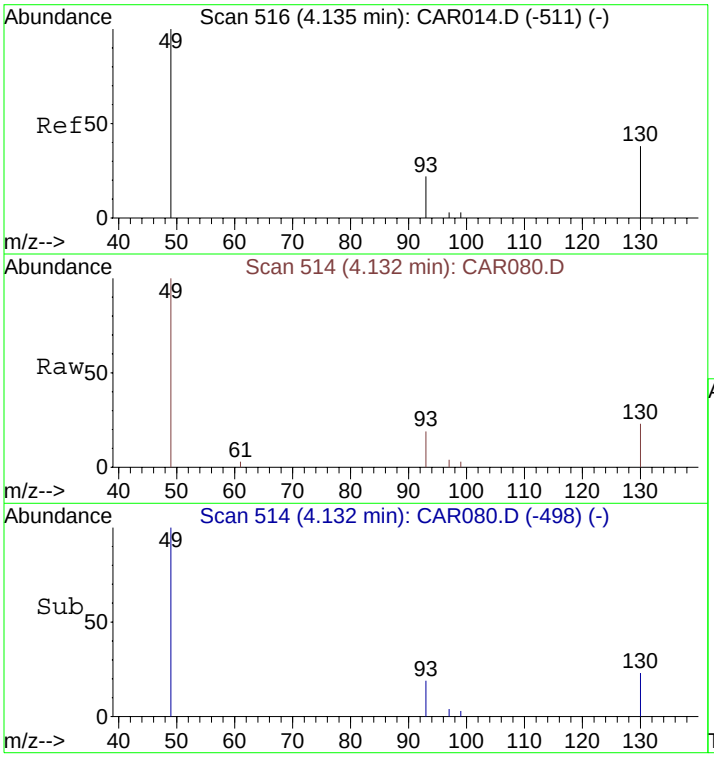
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR080.D Vial: 1
Acq On : 17 Sep 2008 9:11 Operator: dlm
Sample : STD20080917-6 Inst : Instrumen
Misc : 0.5 ppbv ICAL std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 17 9:22 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:18:47 2008
Response via : Initial Calibration

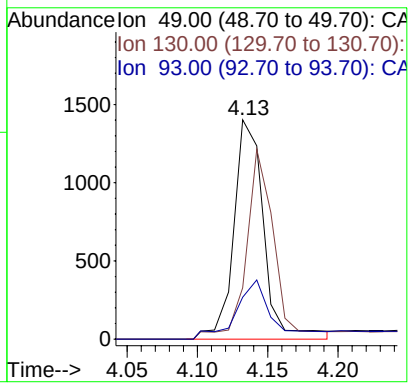


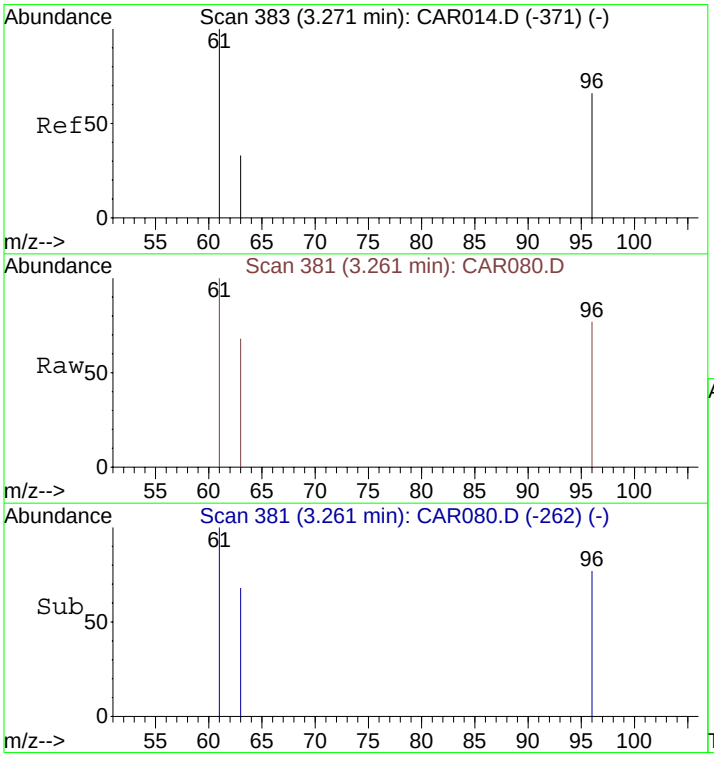


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.13 min Scan# 514
Delta R.T. -0.00 min
Lab File: CAR080.D
Acq: 17 Sep 2008 9:11

Tgt Ion: 49 Resp: 1904

Ion	Ratio	Lower	Upper
49	100		
130	79.8	65.1	97.7
93	33.3	33.8	50.6#

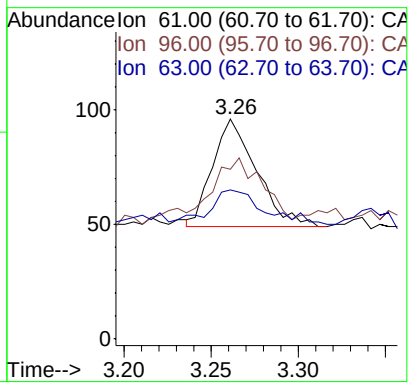


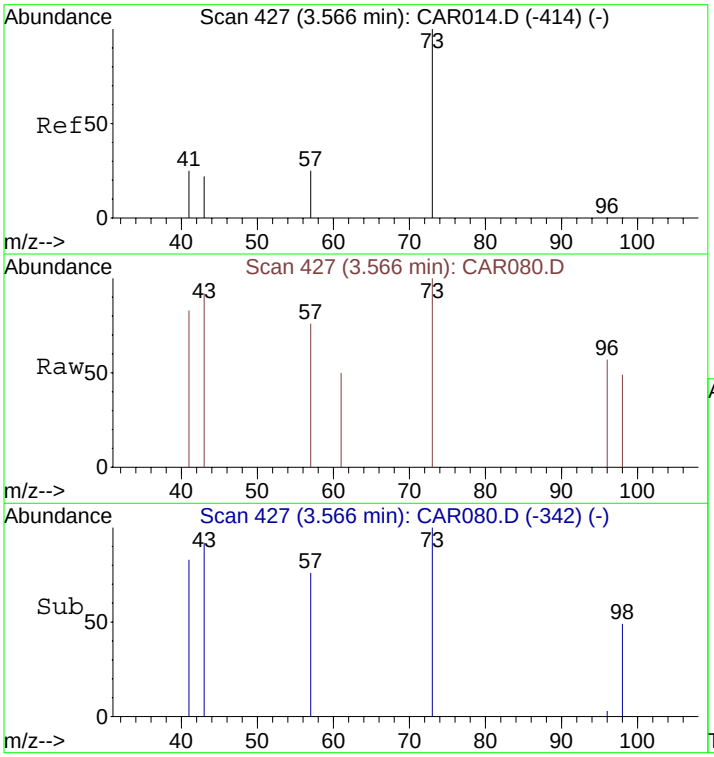


#3
1,1-Dichloroethene
Concen: 0.45 ppbv
RT: 3.26 min Scan# 381
Delta R.T. -0.01 min
Lab File: CAR080.D
Acq: 17 Sep 2008 9:11

Tgt Ion: 61 Resp: 82

Ion	Ratio	Lower	Upper
61	100		
96	56.1	45.7	68.5
63	0.0	25.0	37.4#

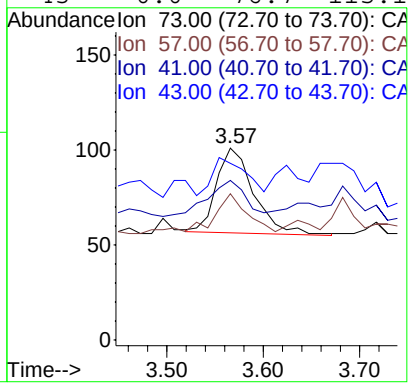


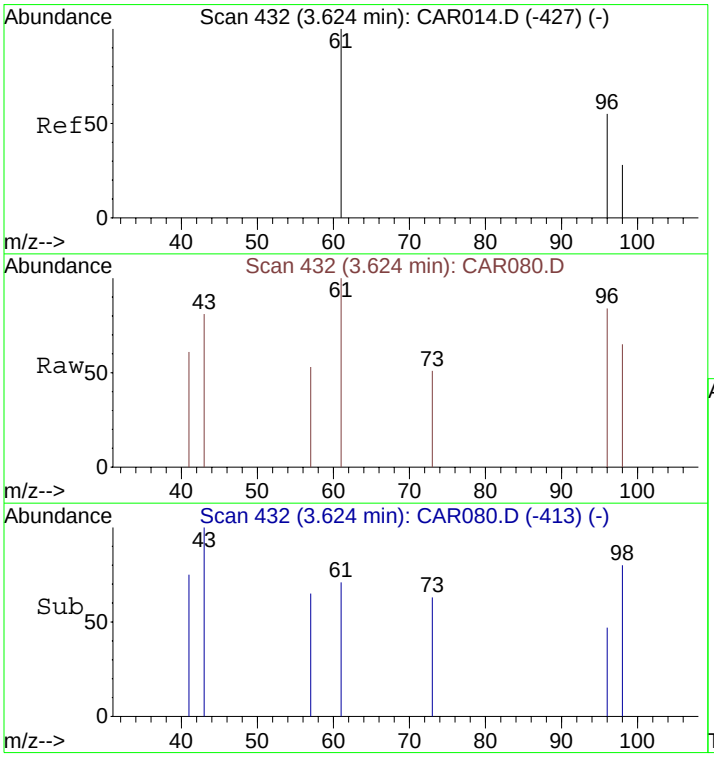


#4
Methyl tert-Butyl Ether (MTBE)
Concen: 0.49 ppbv m
RT: 3.57 min Scan# 427
Delta R.T. 0.00 min
Lab File: CAR080.D
Acq: 17 Sep 2008 9:11

Tgt Ion: 73 Resp: 120

Ion	Ratio	Lower	Upper
73	100		
57	0.0	32.6	49.0#
41	0.0	139.4	209.2#
43	0.0	76.7	115.1#

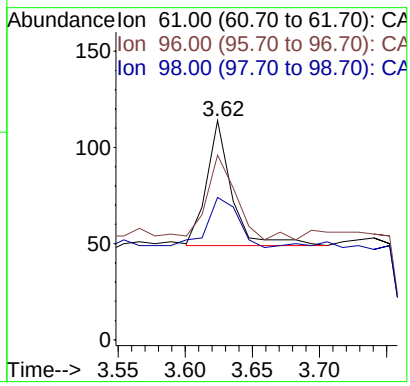


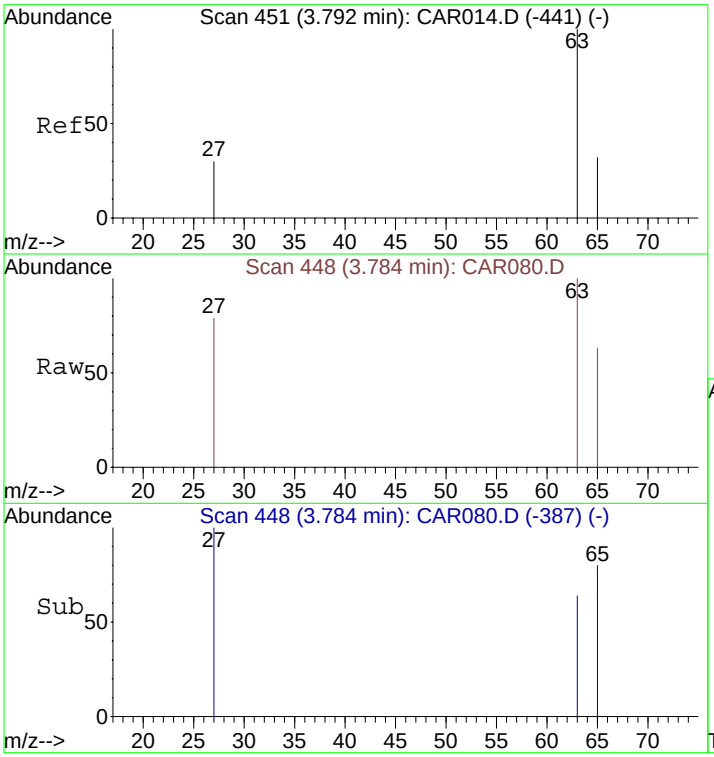


#5
trans-1,2-Dichloroethene
Concen: 0.51 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR080.D
Acq: 17 Sep 2008 9:11

Tgt Ion: 61 Resp: 85

Ion	Ratio	Lower	Upper
61	100		
96	77.6	55.0	82.4
98	42.4	35.6	53.4

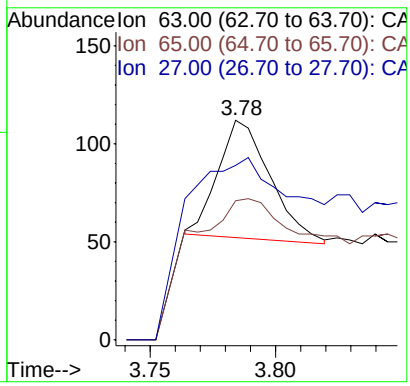


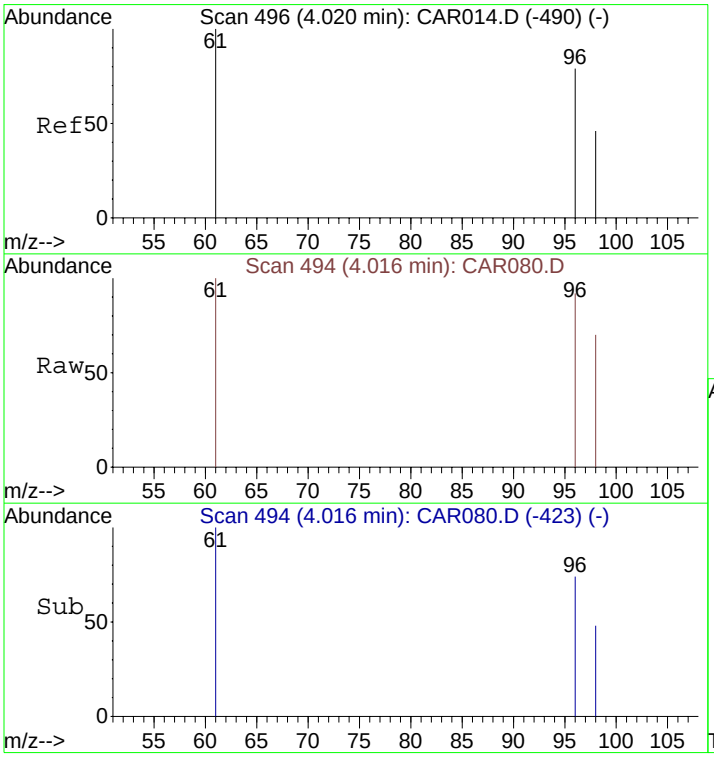


#6
1,1-Dichloroethane
Concen: 0.40 ppbv m
RT: 3.78 min Scan# 448
Delta R.T. -0.01 min
Lab File: CAR080.D
Acq: 17 Sep 2008 9:11

Tgt Ion: 63 Resp: 88

Ion	Ratio	Lower	Upper
63	100		
65	333.0	23.5	35.3#
27	393.2	26.7	40.1#

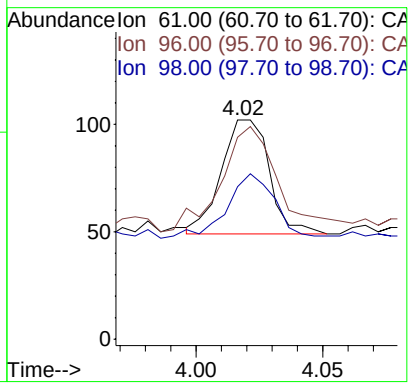


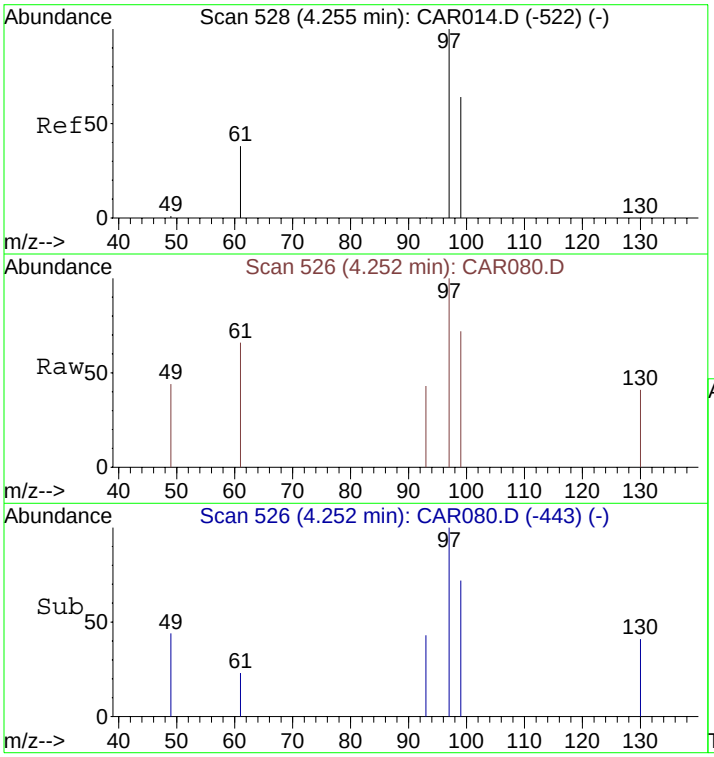


#7
cis-1,2-Dichloroethene
Concen: 0.41 ppbv
RT: 4.02 min Scan# 494
Delta R.T. -0.00 min
Lab File: CAR080.D
Acq: 17 Sep 2008 9:11

Tgt Ion: 61 Resp: 70

Ion	Ratio	Lower	Upper
61	100		
96	82.9	56.0	84.0
98	50.0	36.2	54.4

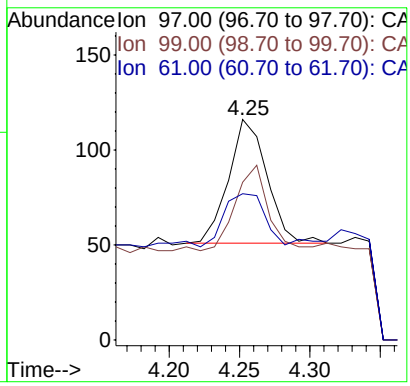


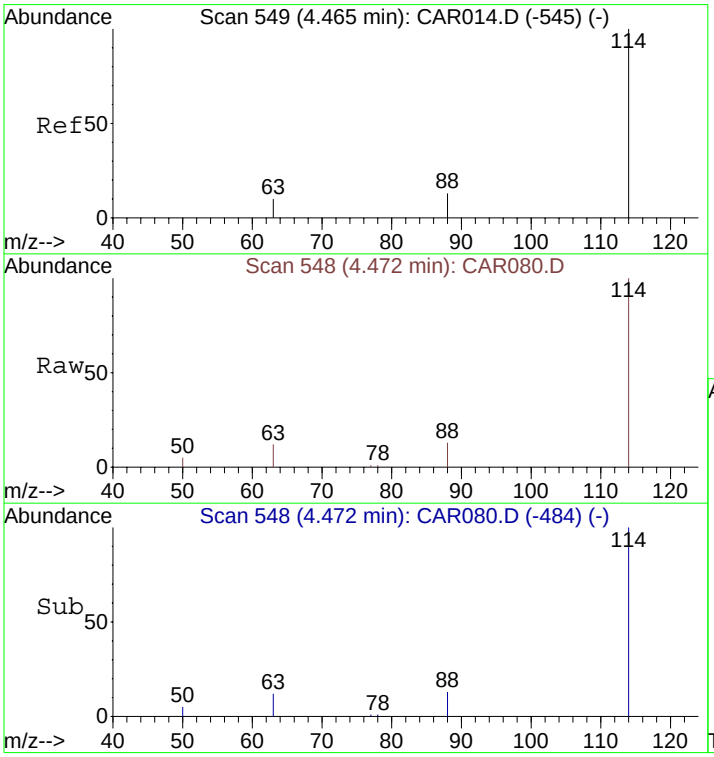


#8
1,1,1-Trichloroethane
Concen: 0.48 ppbv
RT: 4.25 min Scan# 526
Delta R.T. -0.00 min
Lab File: CAR080.D
Acq: 17 Sep 2008 9:11

Tgt Ion: 97 Resp: 124

Ion	Ratio	Lower	Upper
97	100		
99	59.7	51.8	77.8
61	49.2	32.1	48.1#

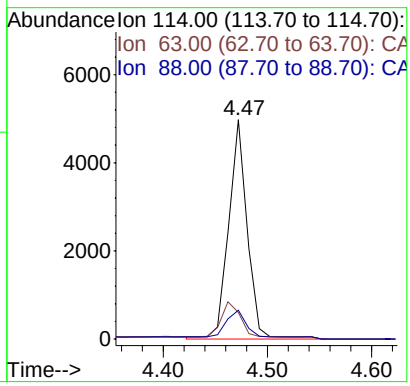


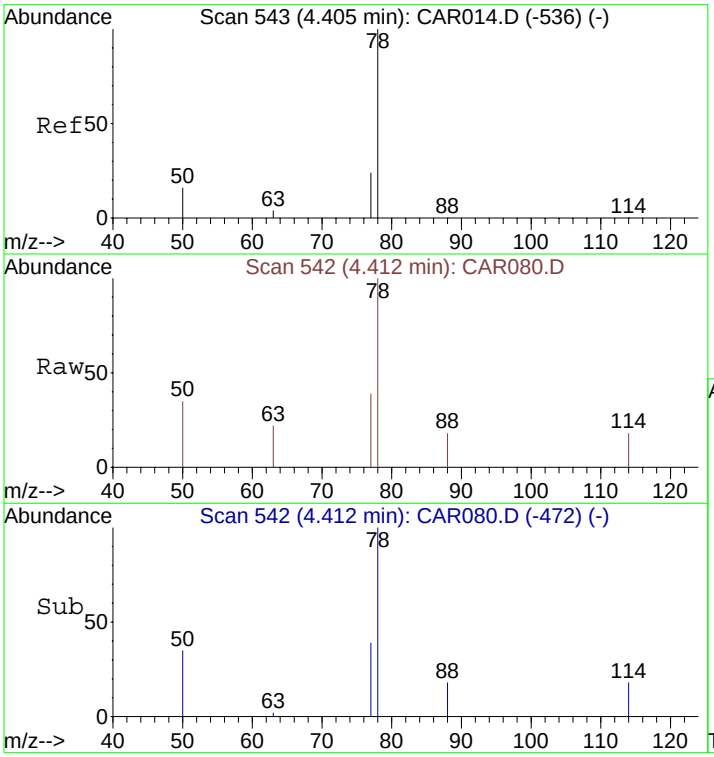


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 548
Delta R.T. 0.01 min
Lab File: CAR080.D
Acq: 17 Sep 2008 9:11

Tgt Ion:114 Resp: 5972

Ion	Ratio	Lower	Upper
114	100		
63	21.4	15.8	23.8
88	17.5	12.2	18.2

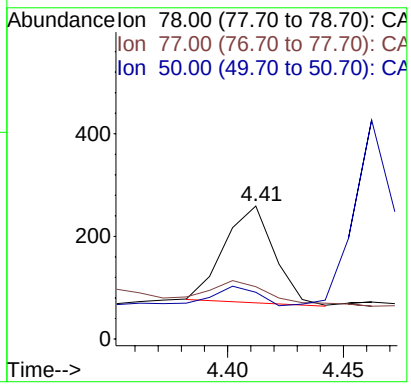


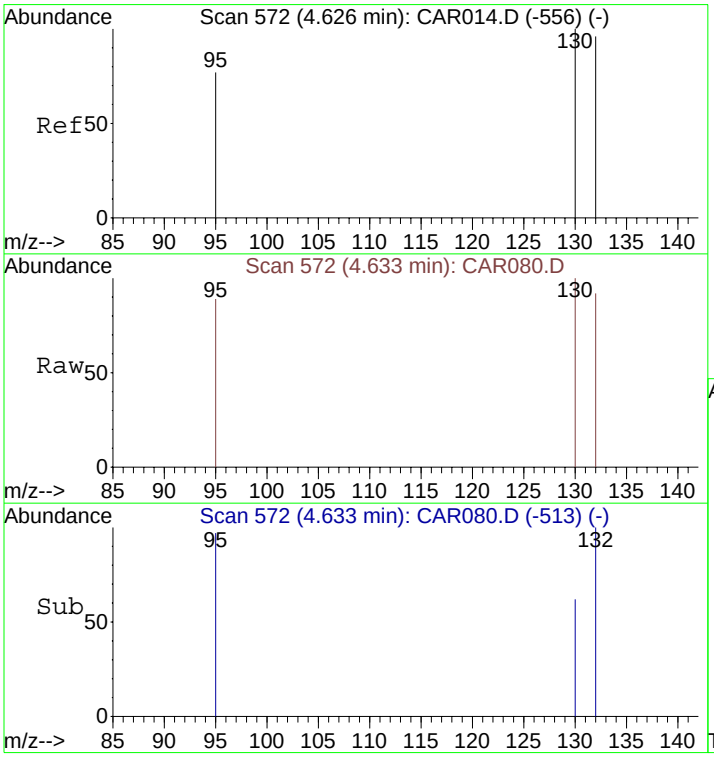


#10
Benzene
Concen: 0.92 ppbv m
RT: 4.41 min Scan# 542
Delta R.T. 0.01 min
Lab File: CAR080.D
Acq: 17 Sep 2008 9:11

Tgt Ion: 78 Resp: 280

Ion	Ratio	Lower	Upper
78	100		
77	78.9	18.6	28.0#
50	132.1	16.2	24.4#

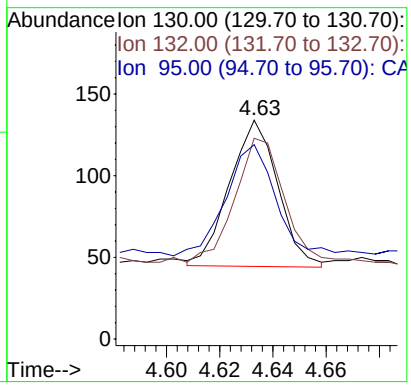


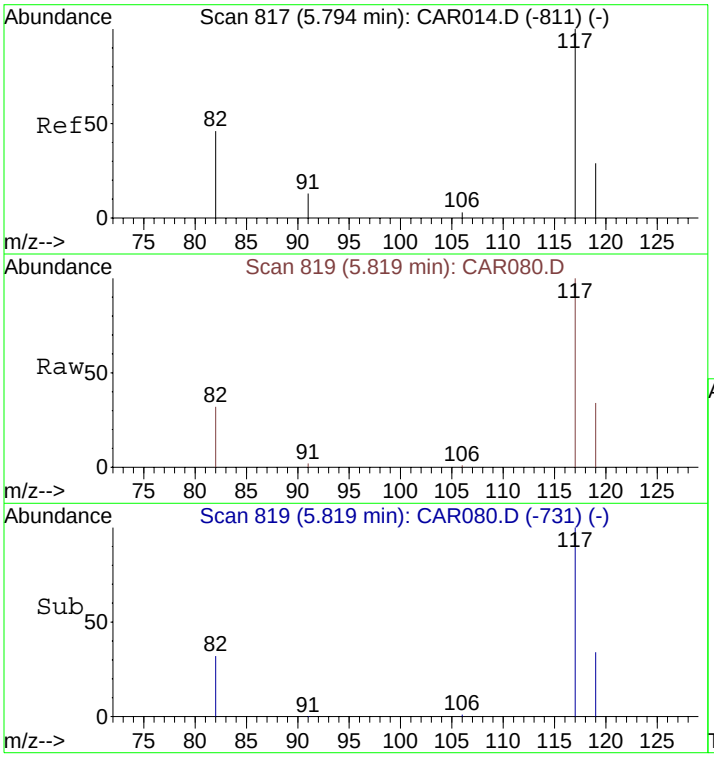


#11
Trichloroethene
Concen: 0.58 ppbv m
RT: 4.63 min Scan# 572
Delta R.T. 0.01 min
Lab File: CAR080.D
Acq: 17 Sep 2008 9:11

Tgt Ion:130 Resp: 115

Ion	Ratio	Lower	Upper
130	100		
132	87.0	73.8	110.6
95	107.0	72.5	108.7

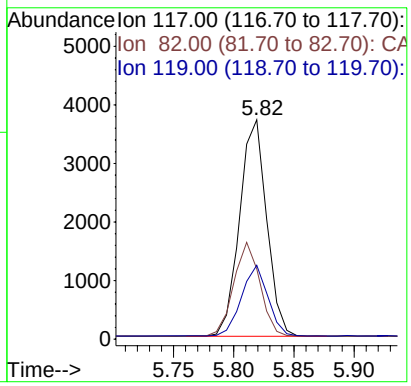


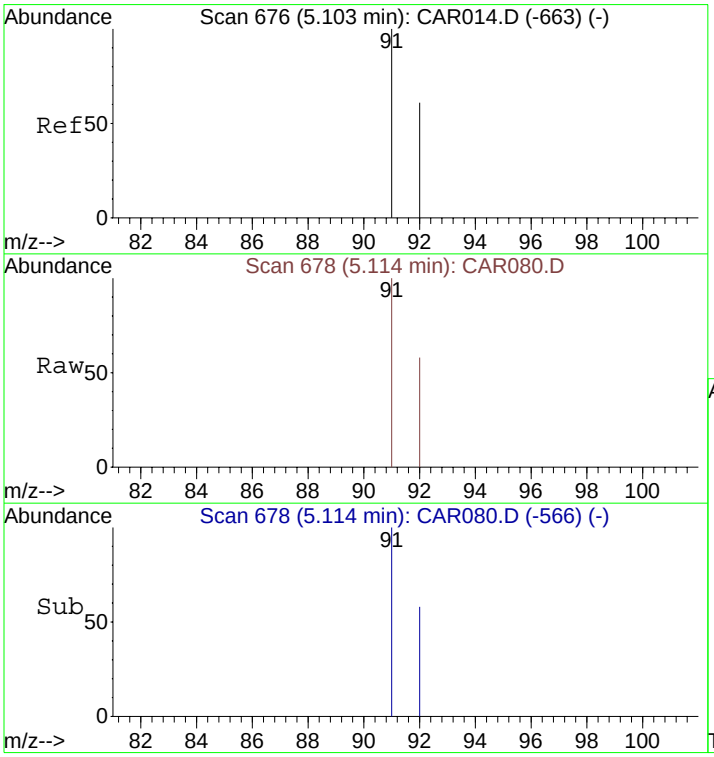


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.82 min Scan# 819
Delta R.T. 0.03 min
Lab File: CAR080.D
Acq: 17 Sep 2008 9:11

Tgt Ion:117 Resp: 5805

Ion	Ratio	Lower	Upper
117	100		
82	41.9	38.3	57.5
119	32.0	26.0	39.0

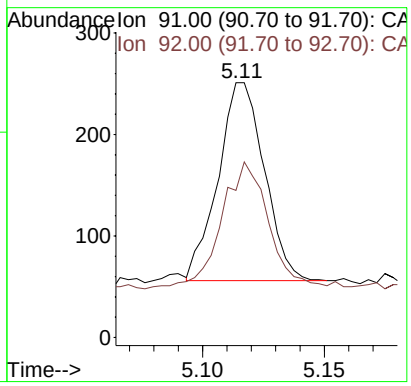


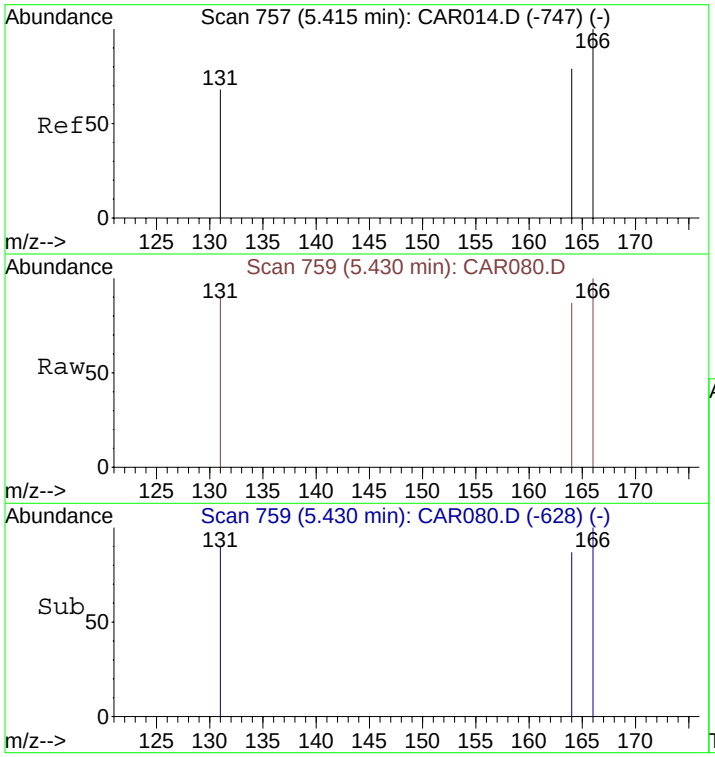


#13
Toluene
Concen: 0.63 ppbv
RT: 5.11 min Scan# 678
Delta R.T. 0.01 min
Lab File: CAR080.D
Acq: 17 Sep 2008 9:11

Tgt Ion: 91 Resp: 258

Ion	Ratio	Lower	Upper
91	100		
92	60.1	48.2	72.2

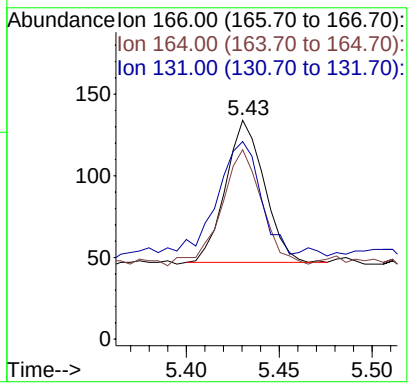


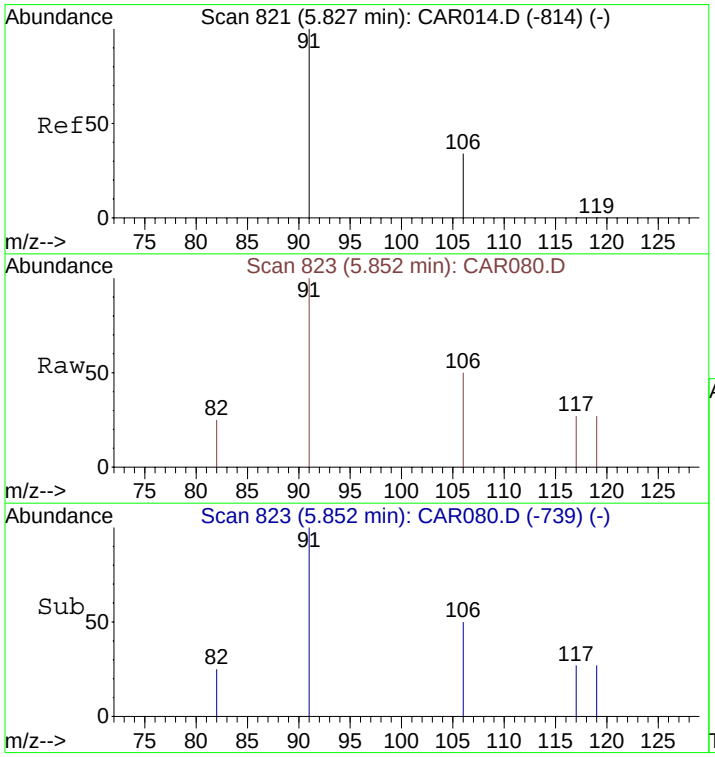


#14
Tetrachloroethene
Concen: 0.52 ppbv
RT: 5.43 min Scan# 759
Delta R.T. 0.02 min
Lab File: CAR080.D
Acq: 17 Sep 2008 9:11

Tgt Ion:166 Resp: 126

Ion	Ratio	Lower	Upper
166	100		
164	80.2	63.1	94.7
131	81.0	62.9	94.3

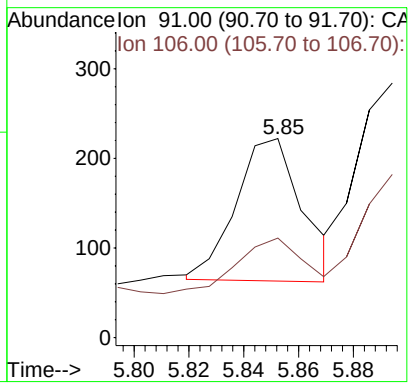


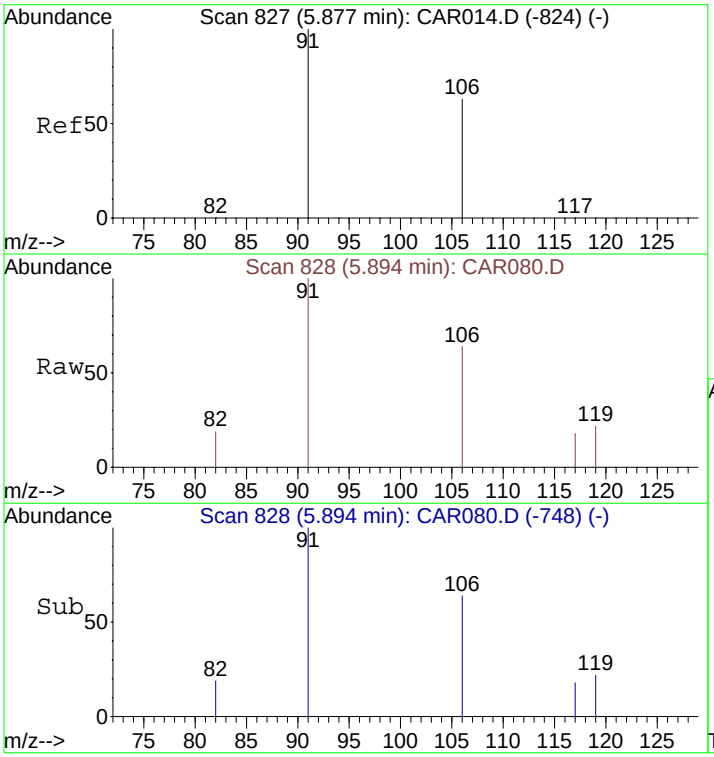


#15
Ethylbenzene
Concen: 0.54 ppbv m
RT: 5.85 min Scan# 823
Delta R.T. 0.03 min
Lab File: CAR080.D
Acq: 17 Sep 2008 9:11

Tgt Ion: 91 Resp: 269

Ion	Ratio	Lower	Upper
91	100		
106	22.7	26.3	39.5#

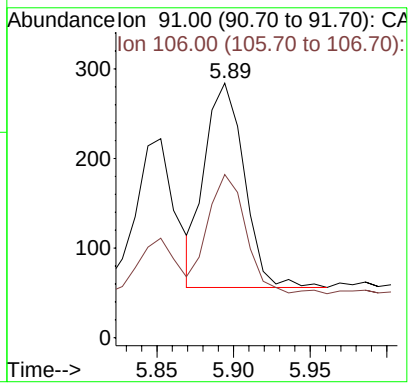


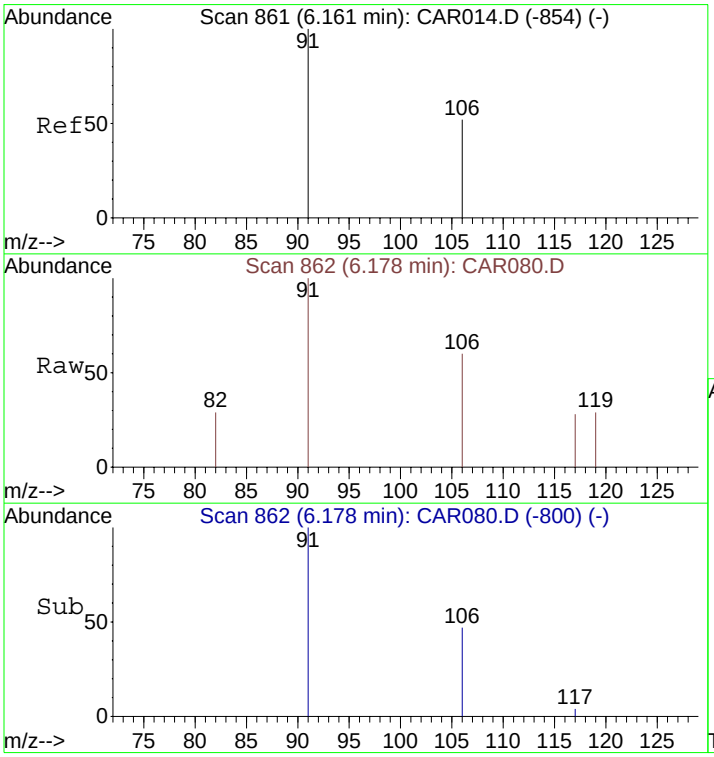


#16
m&p-Xylenes
Concen: 1.16 ppbv
RT: 5.89 min Scan# 828
Delta R.T. 0.02 min
Lab File: CAR080.D
Acq: 17 Sep 2008 9:11

Tgt Ion: 91 Resp: 410

Ion	Ratio	Lower	Upper
91	100		
106	54.1	41.8	62.8

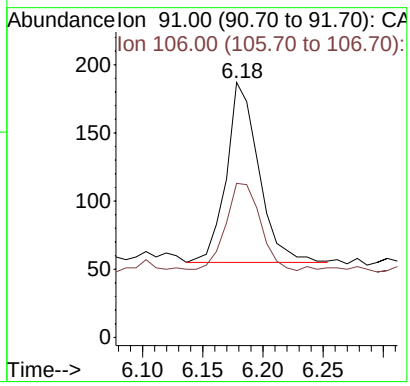




#17
o-Xylene
Concen: 0.65 ppbv
RT: 6.18 min Scan# 862
Delta R.T. 0.02 min
Lab File: CAR080.D
Acq: 17 Sep 2008 9:11

Tgt Ion: 91 Resp: 247

Ion	Ratio	Lower	Upper
91	100		
106	51.8	38.9	58.3



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\20080917\CAR081.D Vial: 1
Acq On : 17 Sep 2008 9:24 Operator: dlm
Sample : STD20080917-ICV Inst : Instrumen
Misc : 500 ppbv 2nd source std. Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:18:47 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Bromochloromethane	10.000	10.000	0.0	97	-0.01
2	Vinyl Chloride	500.000	488.038	2.4	100	0.00
3	1,1-Dichloroethene	500.000	522.189	-4.4	103	0.00
4	Methyl tert-Butyl Ether (MT	500.000	315.198	37.0#	64	0.00
5	trans-1,2-Dichloroethene	500.000	511.112	-2.2	102	0.00
6	1,1-Dichloroethane	500.000	544.136	-8.8	102	0.00
7	cis-1,2-Dichloroethene	500.000	503.171	-0.6	105	0.00
8	1,1,1-Trichloroethane	500.000	522.375	-4.5	102	-0.01
9	1,4-Difluorobenzene	10.000	10.000	0.0	99	-0.02
10	Benzene	500.000	430.438	13.9	99	-0.02
11	Trichloroethene	500.000	500.943	-0.2	102	-0.02
12	Chlorobenzene-d5	10.000	10.000	0.0	99	-0.04
13	Toluene	500.000	443.778	11.2	89	-0.04
14	Tetrachloroethene	500.000	504.170	-0.8	102	-0.05
15	Ethylbenzene	500.000	374.628	25.1	72	-0.04
16	m&p-Xylenes	1000.000	774.428	22.6	70	-0.05
17	o-Xylene	500.000	324.696	35.1#	65	-0.06

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR081.D Vial: 1
Acq On : 17 Sep 2008 9:24 Operator: dlm
Sample : STD20080917-ICV Inst : Instrumen
Misc : 500 ppbv 2nd source std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 17 09:32:06 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 09:26:15 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1988	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	6611	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.80	117	6365	10.00 ppbv	0.00

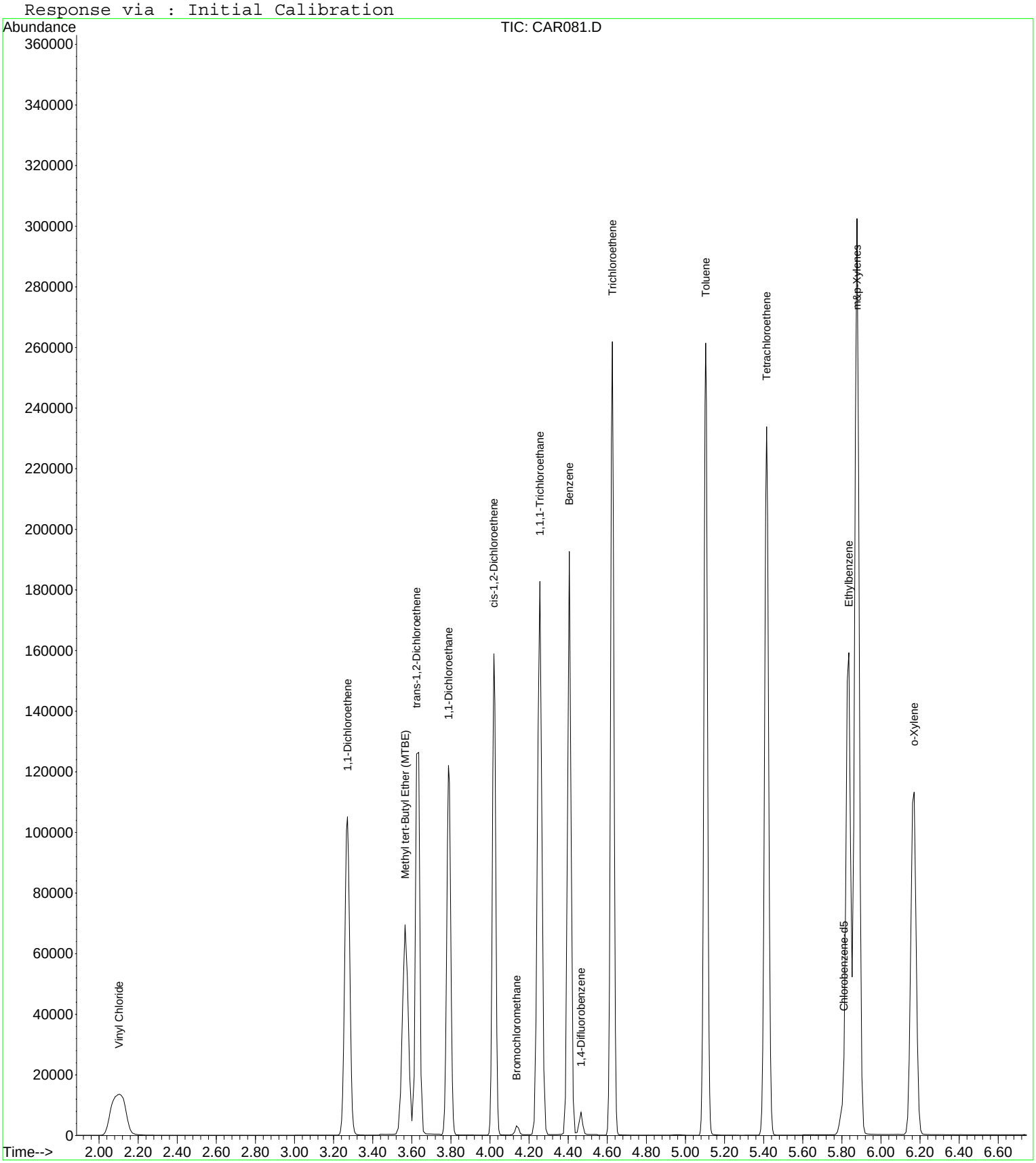
Target Compounds					Qvalue
2) Vinyl Chloride	2.10	62	55677	488.04 ppbv #	55
3) 1,1-Dichloroethene	3.27	61	97135	522.19 ppbv	96
4) Methyl tert-Butyl Ether (M	3.57	73	80812	315.20 ppbv #	15
5) trans-1,2-Dichloroethene	3.62	61	89730	511.11 ppbv	95
6) 1,1-Dichloroethane	3.79	63	120063	544.14 ppbv	98
7) cis-1,2-Dichloroethene	4.02	61	86590	503.17 ppbv	92
8) 1,1,1-Trichloroethane	4.26	97	139208	522.38 ppbv	98
10) Benzene	4.41	78	164942	430.44 ppbv	99
11) Trichloroethene	4.63	130	112950	500.94 ppbv	93
13) Toluene	5.10	91	207933	443.78 ppbv	100
14) Tetrachloroethene	5.42	166	135557	504.17 ppbv	98
15) Ethylbenzene	5.84	91	207589	374.63 ppbv	96
16) m&p-Xylenes	5.88	91	307623	774.43 ppbv	94
17) o-Xylene	6.16	91	142576	324.70 ppbv	94

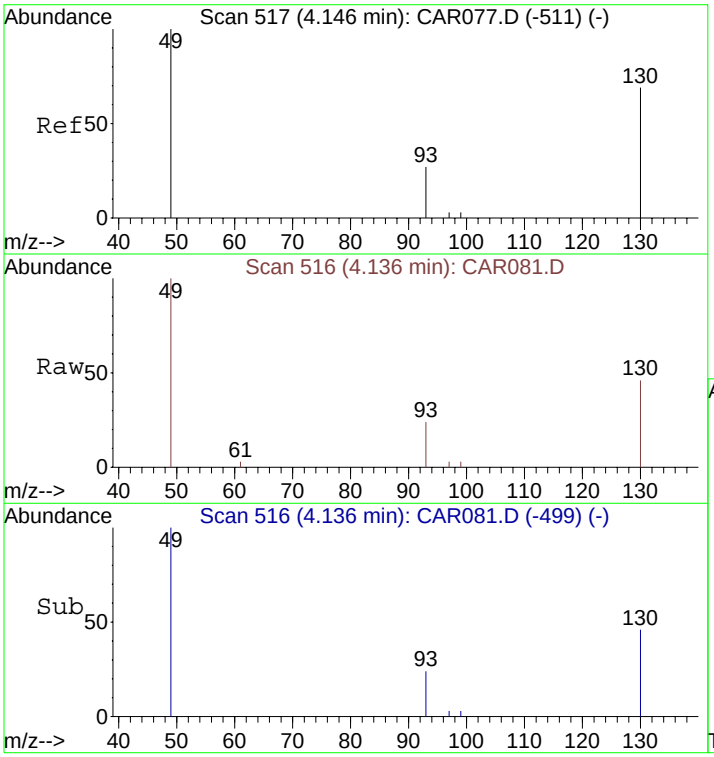
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR081.D Vial: 1
Acq On : 17 Sep 2008 9:24 Operator: dlm
Sample : STD20080917-ICV Inst : Instrumen
Misc : 500 ppbv 2nd source std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 17 9:32 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

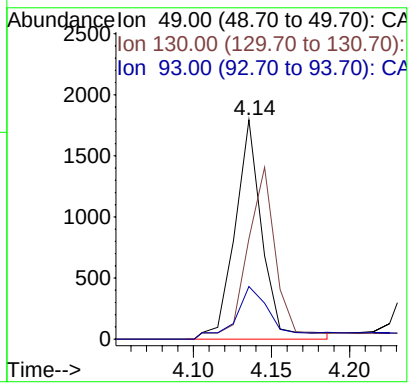


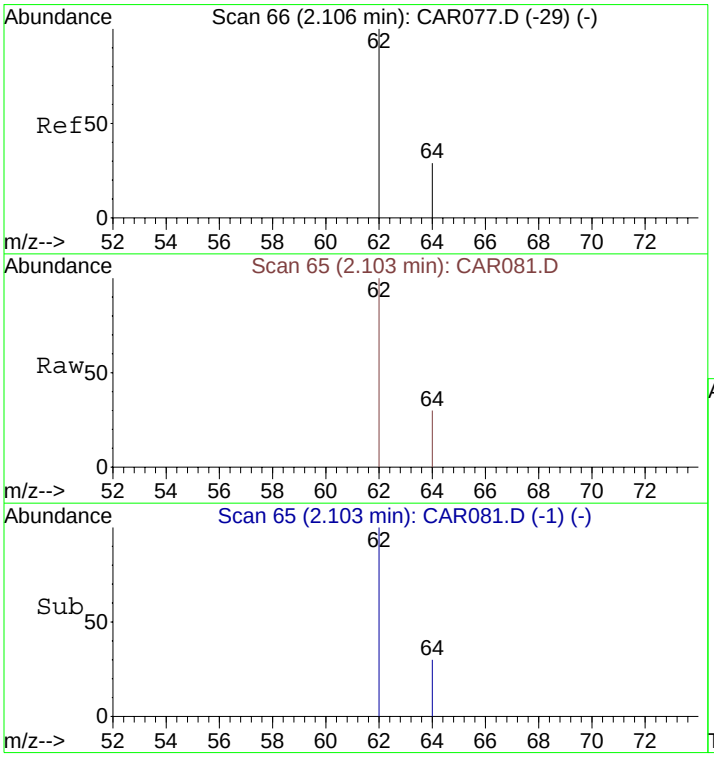


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR081.D
Acq: 17 Sep 2008 9:24

Tgt Ion: 49 Resp: 1988

Ion	Ratio	Lower	Upper
49	100		
130	81.8	65.1	97.7
93	30.6	33.8	50.6#

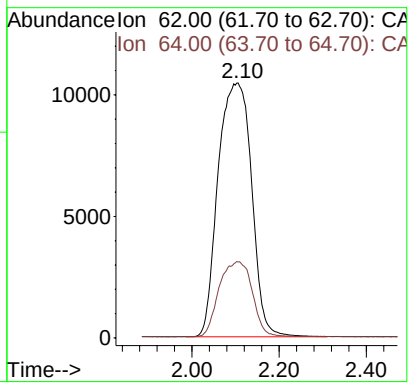


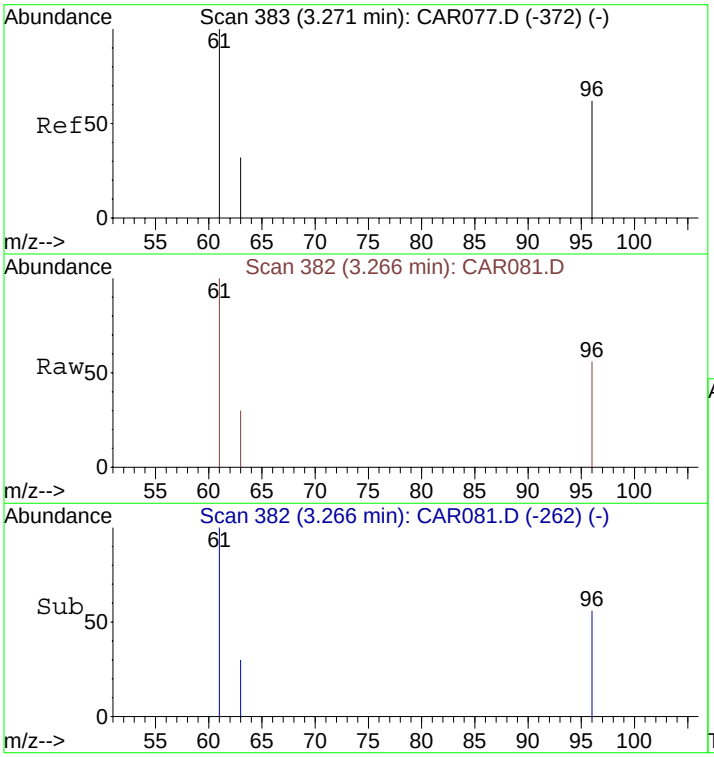


#2
Vinyl Chloride
Concen: 488.04 ppbv
RT: 2.10 min Scan# 65
Delta R.T. -0.01 min
Lab File: CAR081.D
Acq: 17 Sep 2008 9:24

Tgt Ion: 62 Resp: 55677

Ion	Ratio	Lower	Upper
62	100		
64	29.3	9.4	14.2#

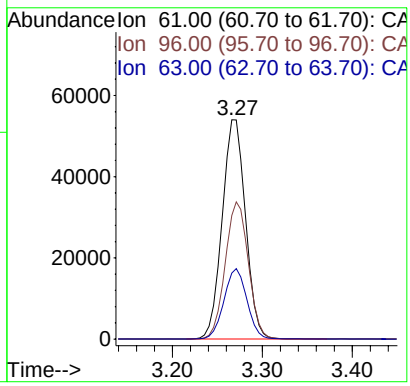


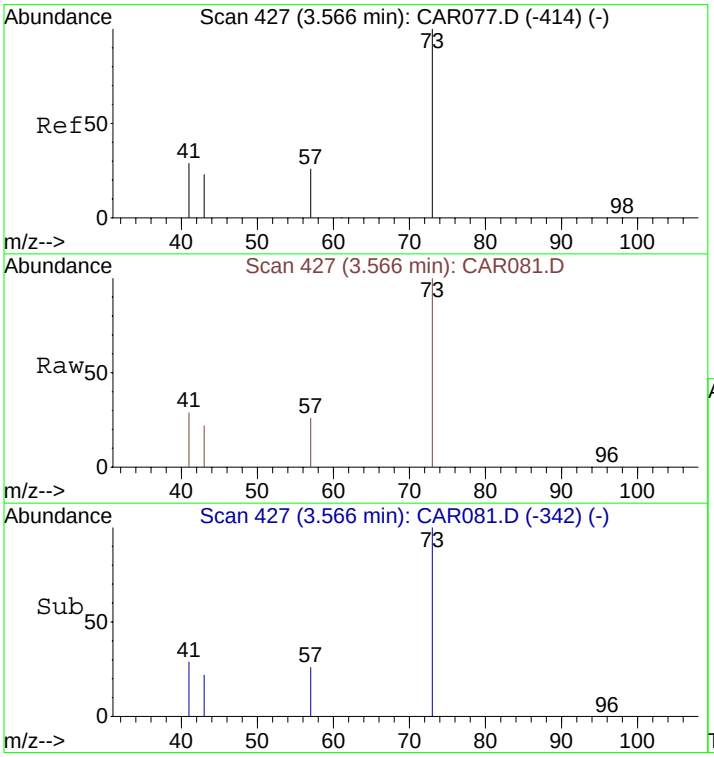


#3
1,1-Dichloroethene
Concen: 522.19 ppbv
RT: 3.27 min Scan# 382
Delta R.T. -0.00 min
Lab File: CAR081.D
Acq: 17 Sep 2008 9:24

Tgt Ion: 61 Resp: 97135

Ion	Ratio	Lower	Upper
61	100		
96	61.9	45.7	68.5
63	31.4	25.0	37.4

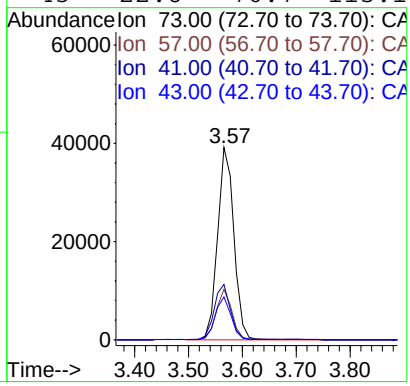


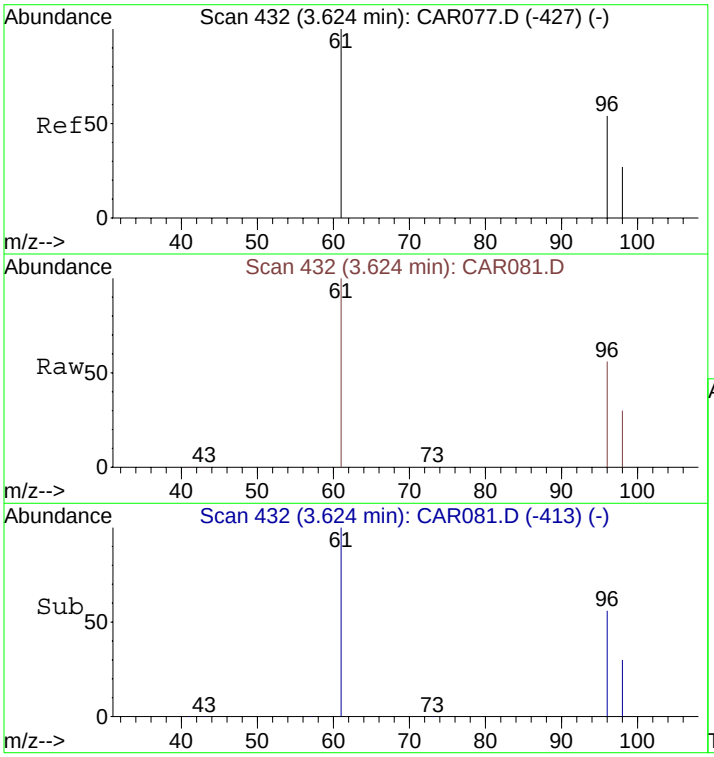


#4
Methyl tert-Butyl Ether (MTBE)
Concen: 315.20 ppbv
RT: 3.57 min Scan# 427
Delta R.T. 0.00 min
Lab File: CAR081.D
Acq: 17 Sep 2008 9:24

Tgt Ion: 73 Resp: 80812

Ion	Ratio	Lower	Upper
73	100		
57	25.2	32.6	49.0#
41	29.2	139.4	209.2#
43	22.8	76.7	115.1#

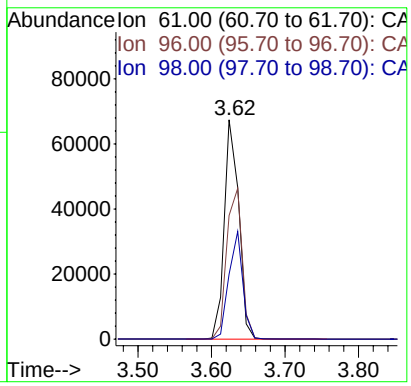


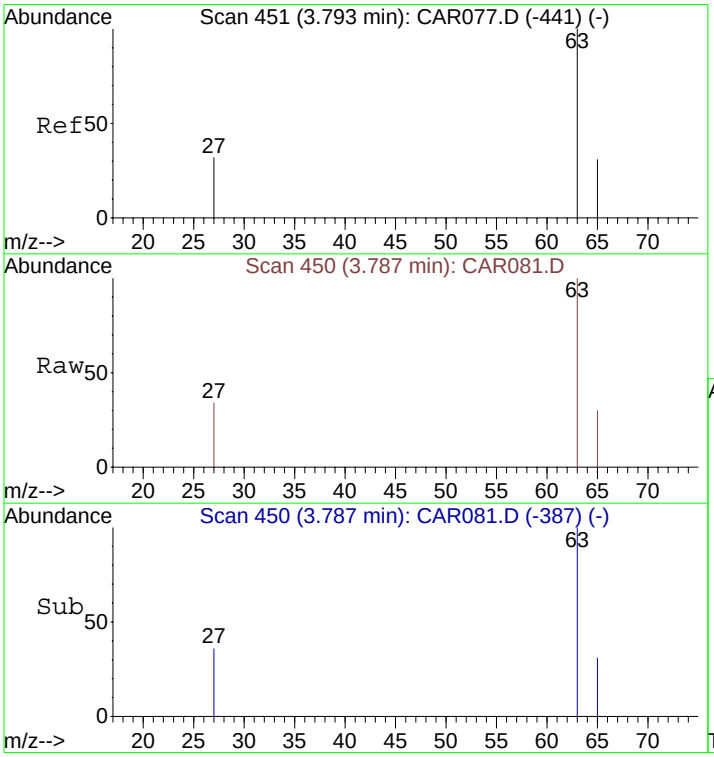


#5
trans-1,2-Dichloroethene
Concen: 511.11 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR081.D
Acq: 17 Sep 2008 9:24

Tgt Ion: 61 Resp: 89730

Ion	Ratio	Lower	Upper
61	100		
96	72.8	55.0	82.4
98	47.2	35.6	53.4

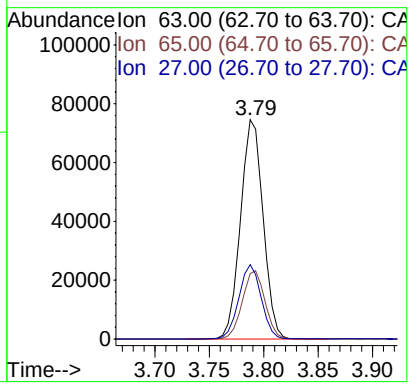


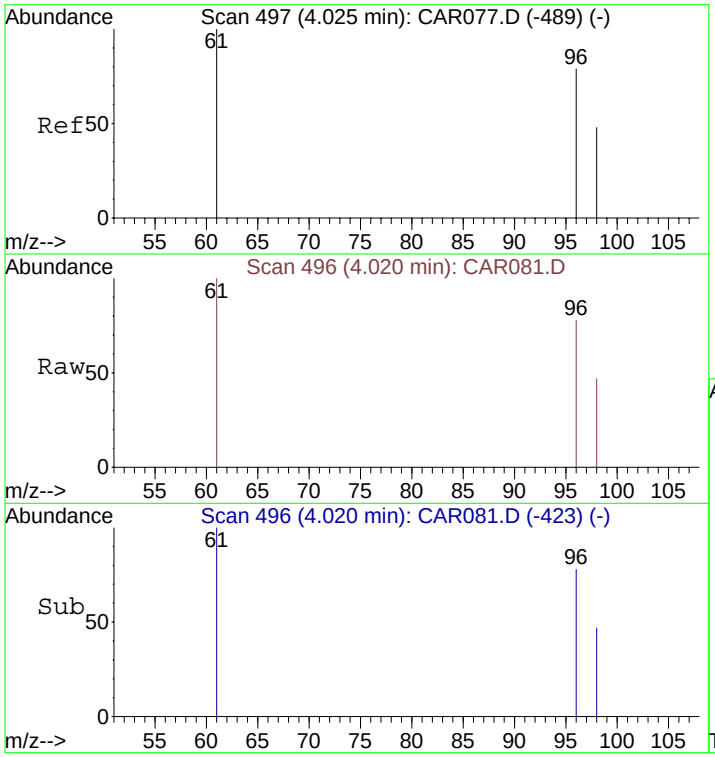


#6
1,1-Dichloroethane
Concen: 544.14 ppbv
RT: 3.79 min Scan# 450
Delta R.T. -0.00 min
Lab File: CAR081.D
Acq: 17 Sep 2008 9:24

Tgt Ion: 63 Resp: 120063

Ion	Ratio	Lower	Upper
63	100		
65	31.6	23.5	35.3
27	33.6	26.7	40.1

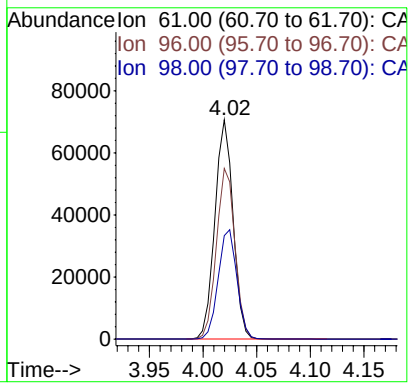


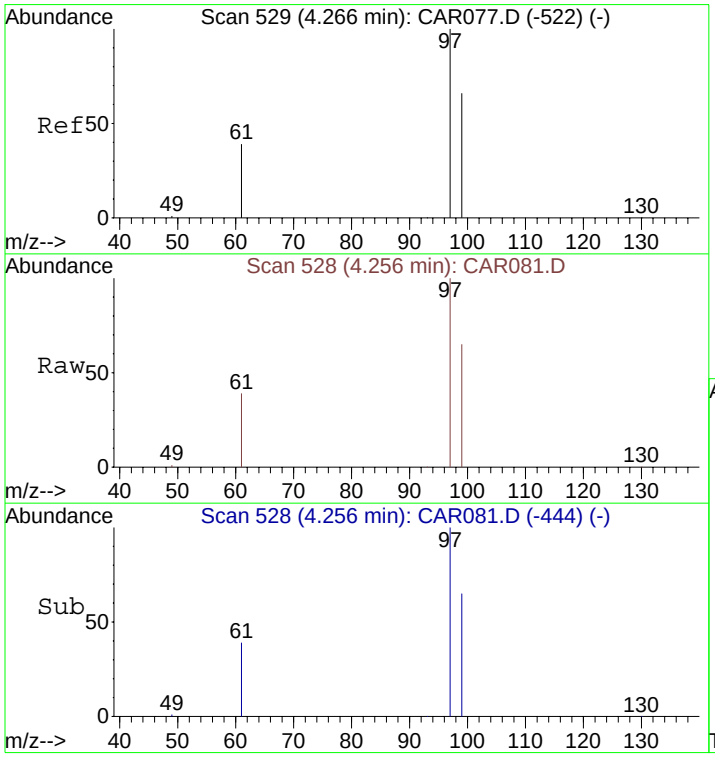


#7
cis-1,2-Dichloroethene
Concen: 503.17 ppbv
RT: 4.02 min Scan# 496
Delta R.T. 0.00 min
Lab File: CAR081.D
Acq: 17 Sep 2008 9:24

Tgt Ion: 61 Resp: 86590

Ion	Ratio	Lower	Upper
61	100		
96	76.3	56.0	84.0
98	51.7	36.2	54.4

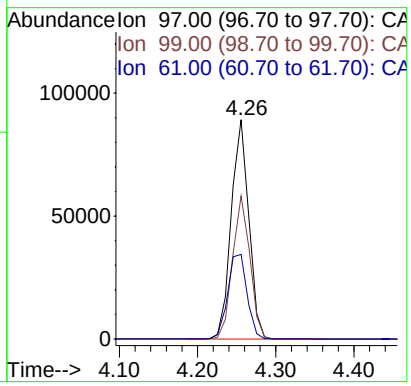


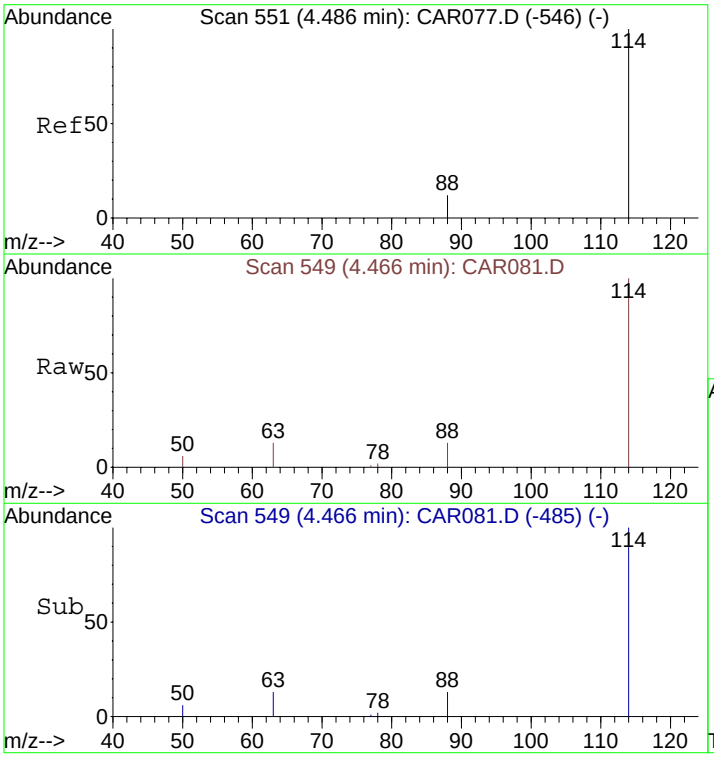


#8
1,1,1-Trichloroethane
Concen: 522.38 ppbv
RT: 4.26 min Scan# 528
Delta R.T. 0.00 min
Lab File: CAR081.D
Acq: 17 Sep 2008 9:24

Tgt Ion: 97 Resp: 139208

Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.8	77.8
61	42.6	32.1	48.1

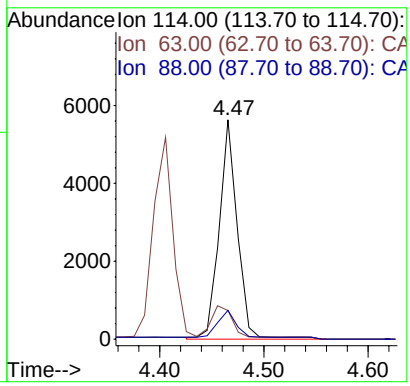


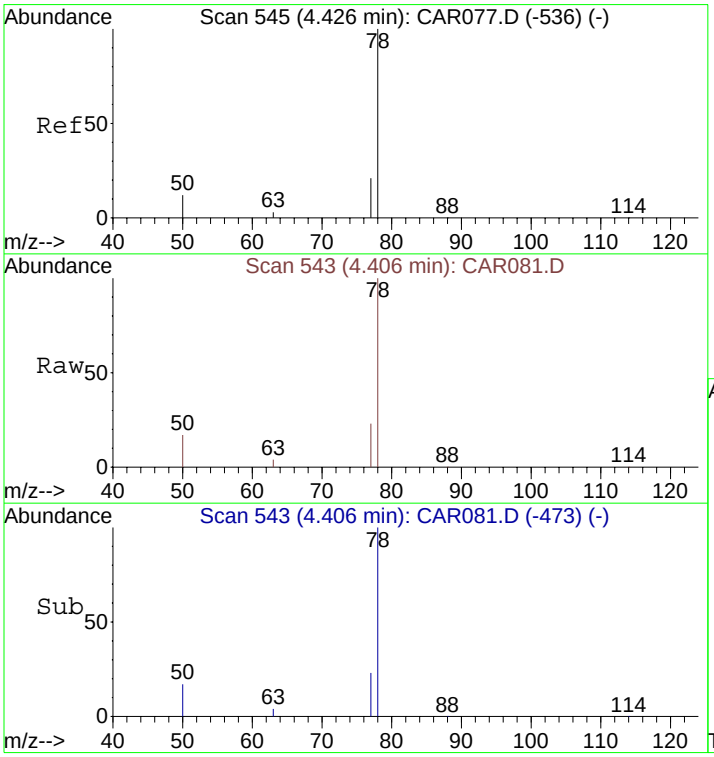


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. 0.00 min
Lab File: CAR081.D
Acq: 17 Sep 2008 9:24

Tgt Ion:114 Resp: 6611

Ion	Ratio	Lower	Upper
114	100		
63	17.3	15.8	23.8
88	17.7	12.2	18.2

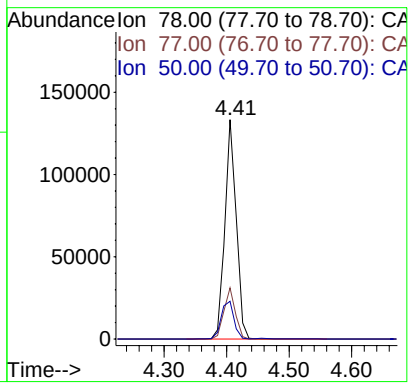


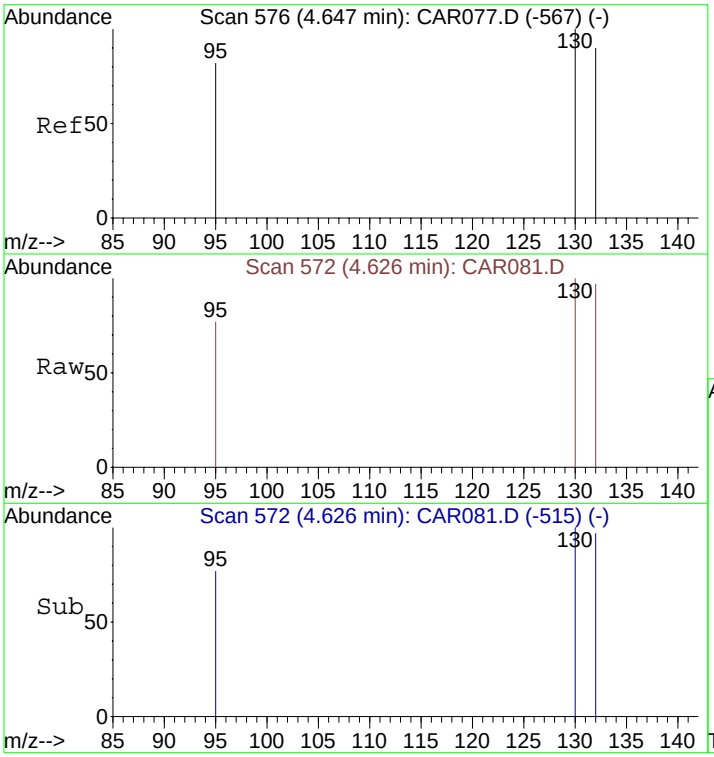


#10
Benzene
Concen: 430.44 ppbv
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR081.D
Acq: 17 Sep 2008 9:24

Tgt Ion: 78 Resp: 164942

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.6	28.0
50	19.8	16.2	24.4

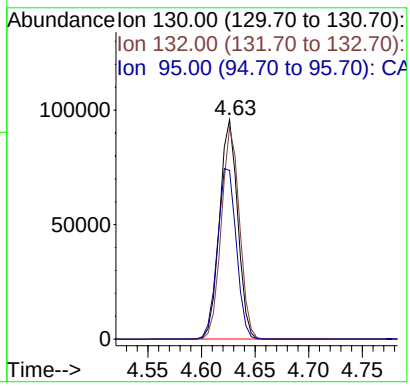


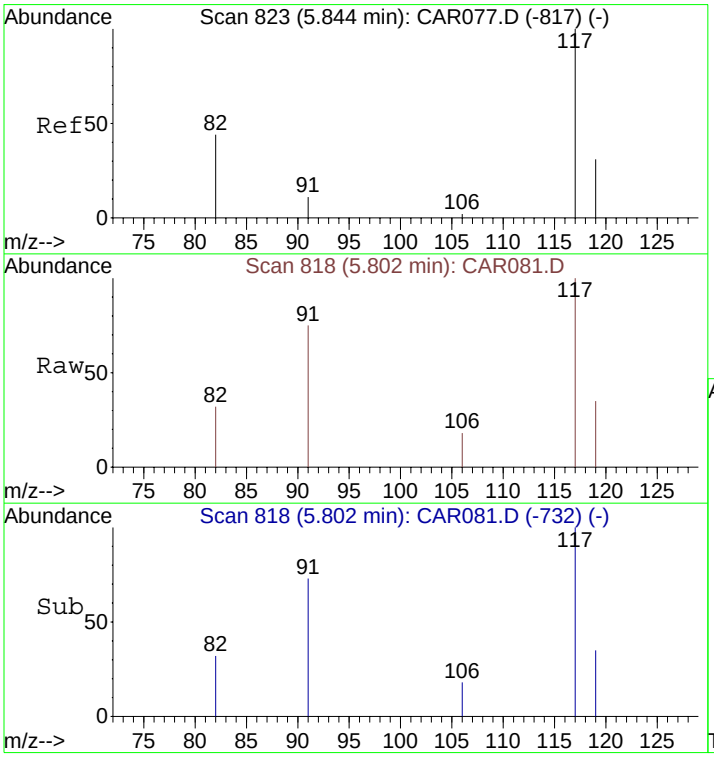


#11
Trichloroethene
Concen: 500.94 ppbv
RT: 4.63 min Scan# 572
Delta R.T. 0.00 min
Lab File: CAR081.D
Acq: 17 Sep 2008 9:24

Tgt Ion:130 Resp: 112950

Ion	Ratio	Lower	Upper
130	100		
132	96.4	73.8	110.6
95	80.9	72.5	108.7

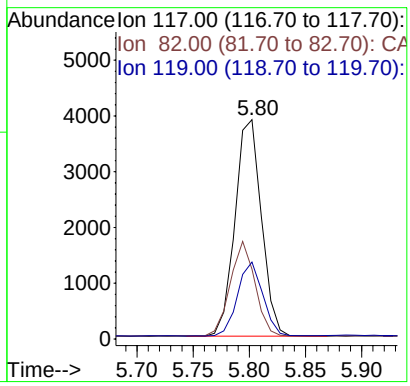


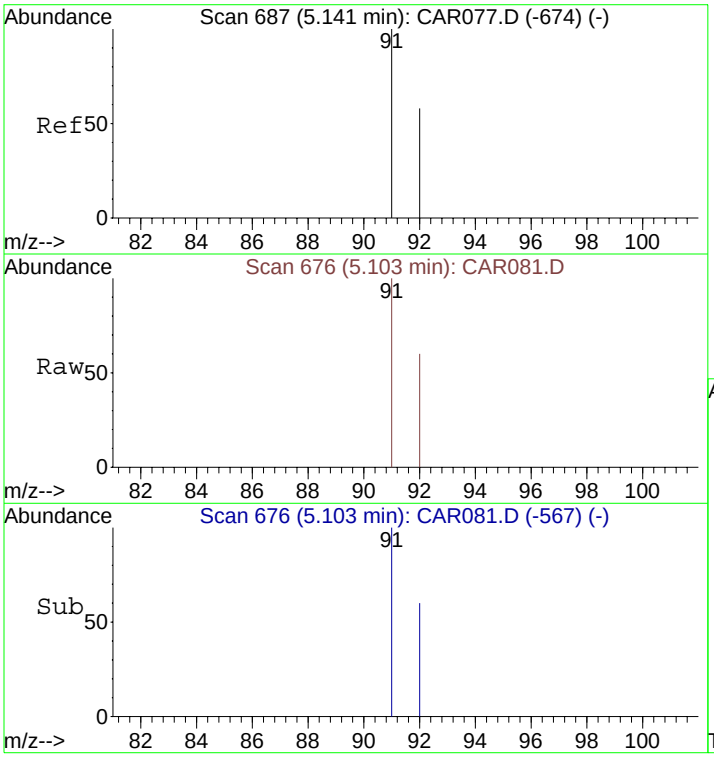


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.80 min Scan# 818
Delta R.T. 0.01 min
Lab File: CAR081.D
Acq: 17 Sep 2008 9:24

Tgt Ion:117 Resp: 6365

Ion	Ratio	Lower	Upper
117	100		
82	40.8	38.3	57.5
119	32.7	26.0	39.0

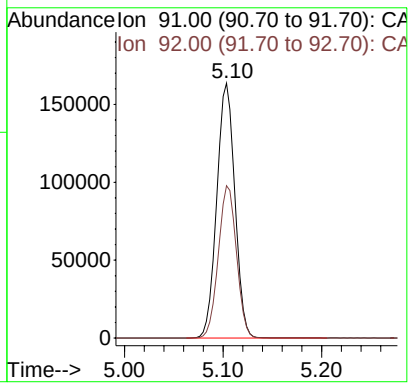


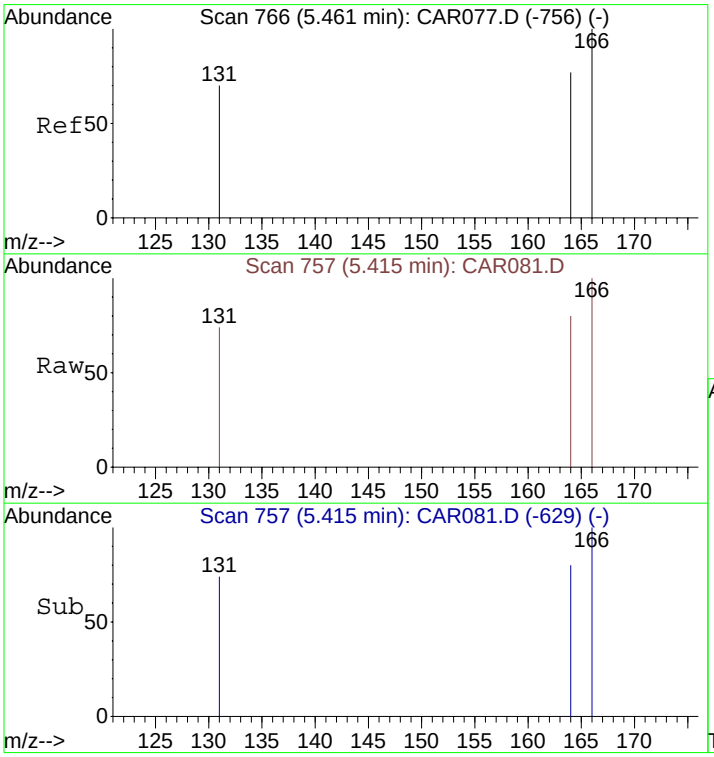


#13
Toluene
Concen: 443.78 ppbv
RT: 5.10 min Scan# 676
Delta R.T. 0.00 min
Lab File: CAR081.D
Acq: 17 Sep 2008 9:24

Tgt Ion: 91 Resp: 207933

Ion	Ratio	Lower	Upper
91	100		
92	59.9	48.2	72.2

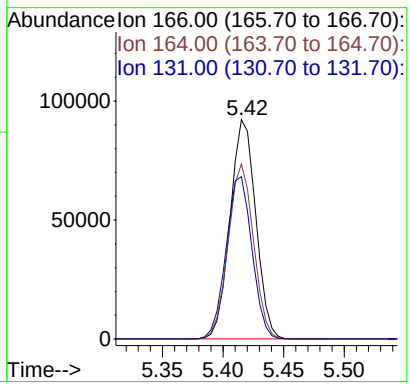


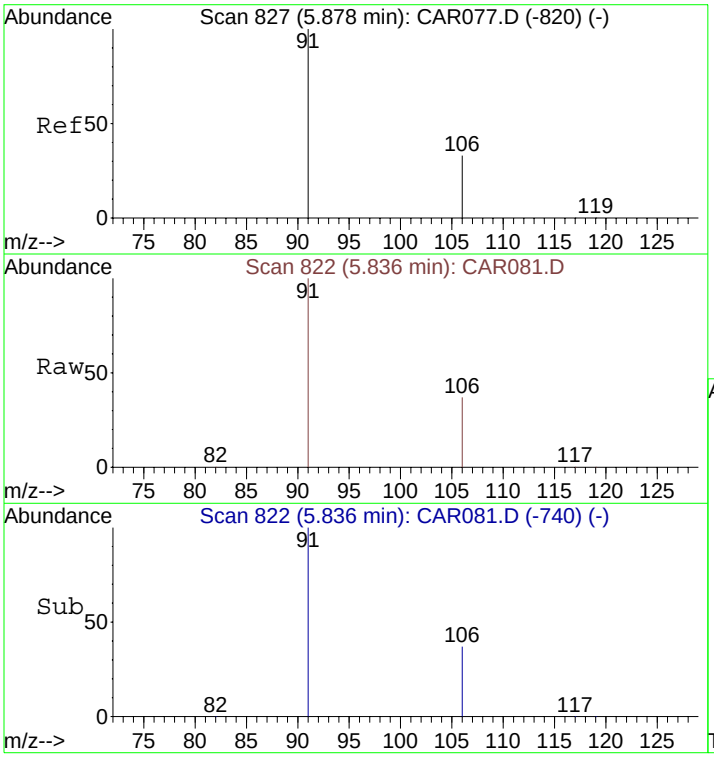


#14
Tetrachloroethene
Concen: 504.17 ppbv
RT: 5.42 min Scan# 757
Delta R.T. 0.00 min
Lab File: CAR081.D
Acq: 17 Sep 2008 9:24

Tgt Ion:166 Resp: 135557

Ion	Ratio	Lower	Upper
166	100		
164	78.7	63.1	94.7
131	74.7	62.9	94.3

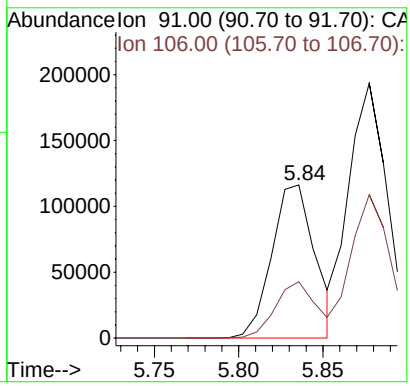


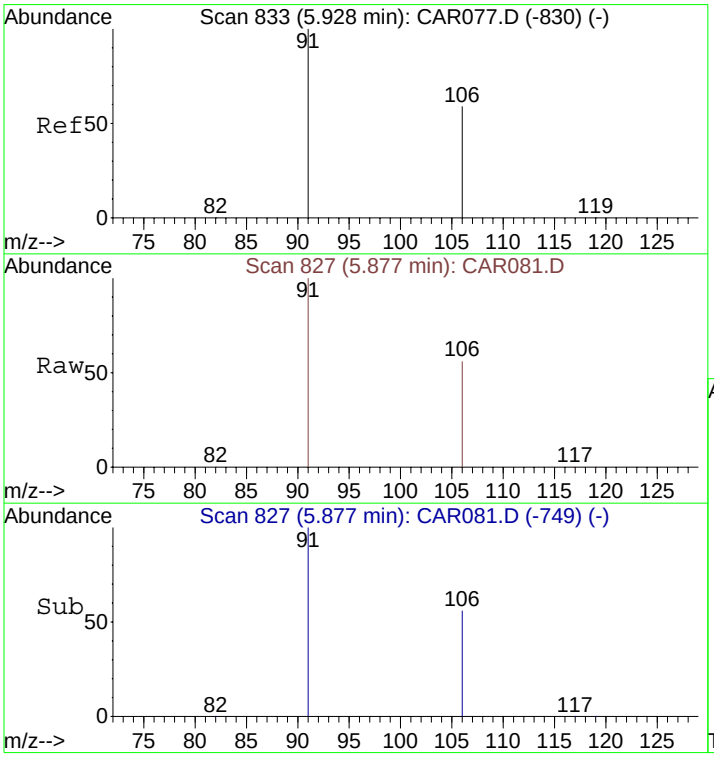


#15
Ethylbenzene
Concen: 374.63 ppbv
RT: 5.84 min Scan# 822
Delta R.T. 0.01 min
Lab File: CAR081.D
Acq: 17 Sep 2008 9:24

Tgt Ion: 91 Resp: 207589

Ion	Ratio	Lower	Upper
91	100		
106	35.1	26.3	39.5

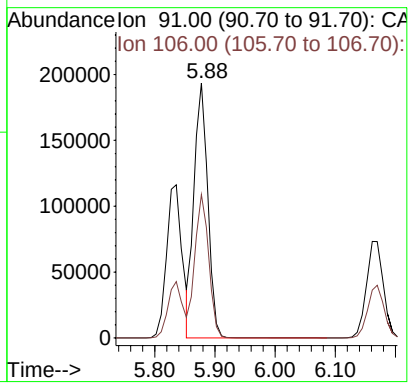


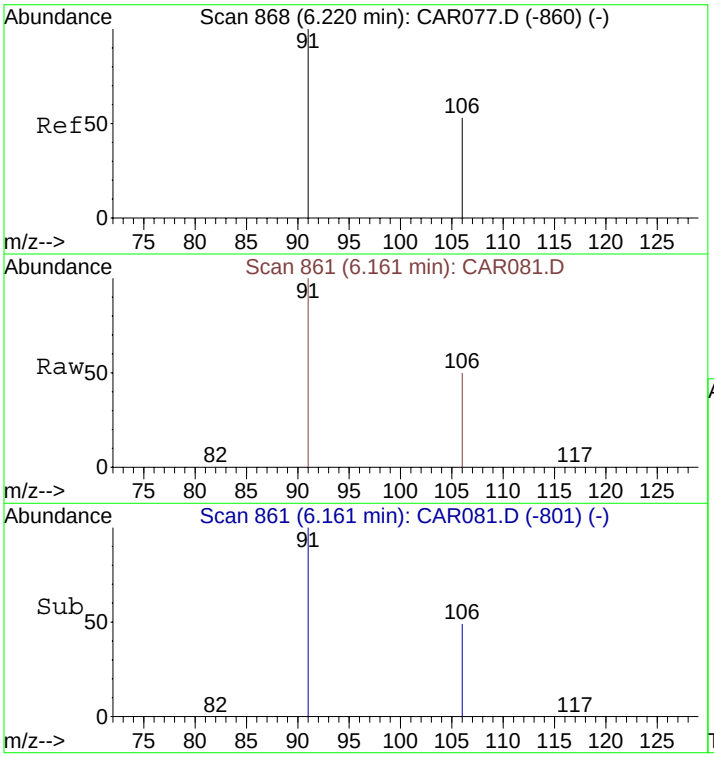


#16
m&p-Xylenes
Concen: 774.43 ppbv
RT: 5.88 min Scan# 827
Delta R.T. 0.00 min
Lab File: CAR081.D
Acq: 17 Sep 2008 9:24

Tgt Ion: 91 Resp: 307623

Ion	Ratio	Lower	Upper
91	100		
106	56.7	41.8	62.8

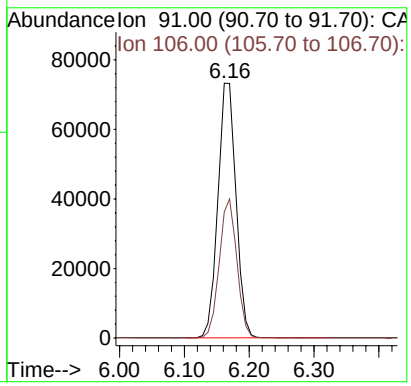




#17
o-Xylene
Concen: 324.70 ppbv
RT: 6.16 min Scan# 861
Delta R.T. 0.00 min
Lab File: CAR081.D
Acq: 17 Sep 2008 9:24

Tgt Ion: 91 Resp: 142576

Ion	Ratio	Lower	Upper
91	100		
106	52.8	38.9	58.3



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\20080917\CAR084.D Vial: 1
Acq On : 17 Sep 2008 10:10 Operator: dlm
Sample : 20080917-LCS Inst : Instrumen
Misc : 500 ppbv 2nd source Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Bromochloromethane	10.000	10.000	0.0	102	-0.01
2	Vinyl Chloride	500.000	470.724	5.9	101	0.00
3	1,1-Dichloroethene	500.000	509.582	-1.9	105	0.00
4	Methyl tert-Butyl Ether (MT	500.000	310.627	37.9#	66	0.00
5	trans-1,2-Dichloroethene	500.000	512.170	-2.4	107	0.00
6	1,1-Dichloroethane	500.000	522.084	-4.4	103	0.00
7	cis-1,2-Dichloroethene	500.000	471.174	5.8	103	0.00
8	1,1,1-Trichloroethane	500.000	508.116	-1.6	104	-0.01
9	1,4-Difluorobenzene	10.000	10.000	0.0	103	-0.01
10	Benzene	500.000	420.874	15.8	101	-0.01
11	Trichloroethene	500.000	487.351	2.5	103	-0.02
12	Chlorobenzene-d5	10.000	10.000	0.0	101	-0.03
13	Toluene	500.000	439.008	12.2	90	-0.03
14	Tetrachloroethene	500.000	497.236	0.6	103	-0.04
15	Ethylbenzene	500.000	353.998	29.2	69	-0.03
16	m&p-Xylenes	1000.000	778.223	22.2	72	-0.04
17	o-Xylene	500.000	315.533	36.9#	64	-0.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR084.D Vial: 1
Acq On : 17 Sep 2008 10:10 Operator: dlm
Sample : 20080917-LCS Inst : Instrumen
Misc : 500 ppbv 2nd source Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 17 10:17:55 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.13	49	2085	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	6892	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.81	117	6500	10.00 ppbv	0.02

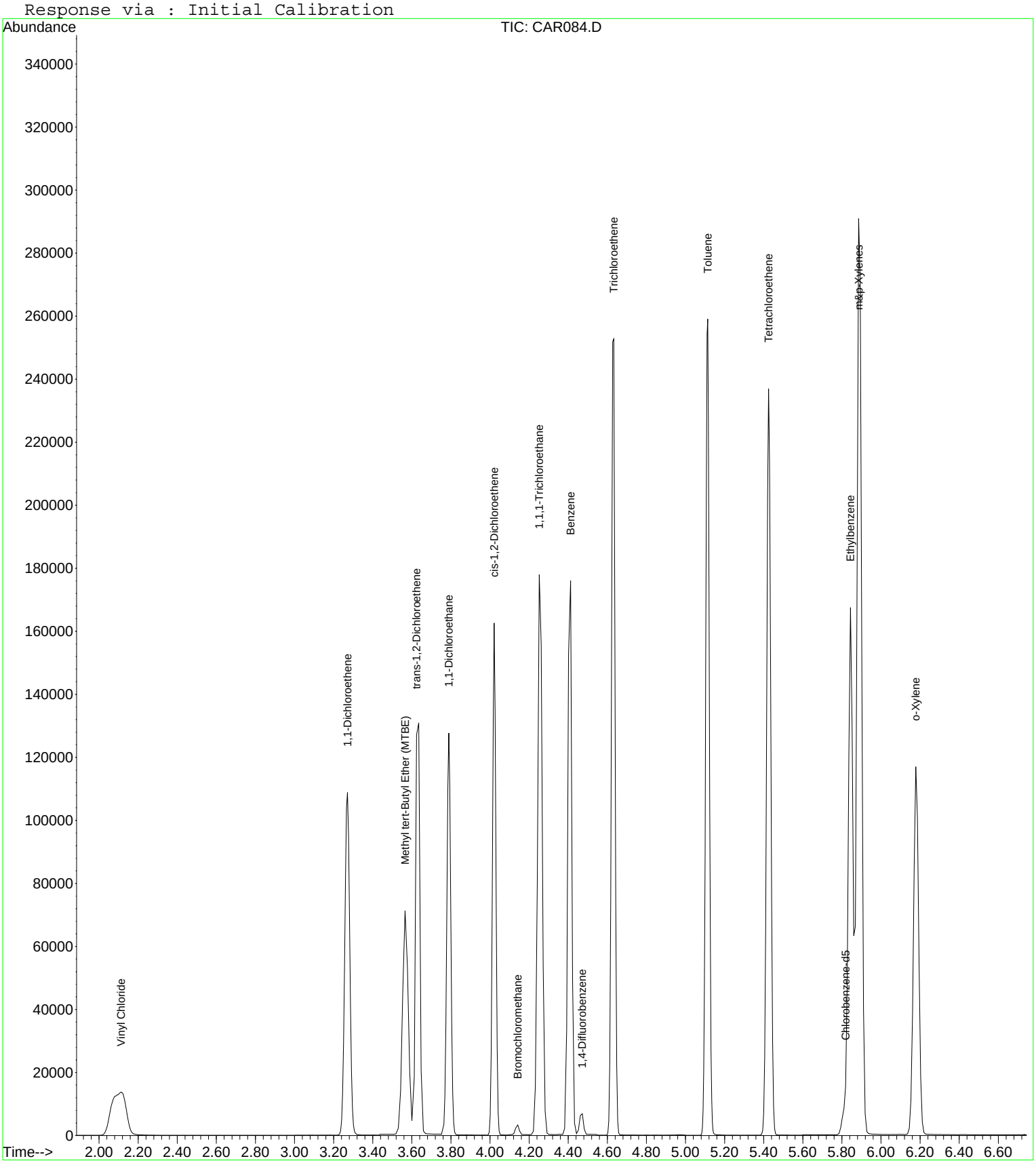
Target Compounds					Qvalue
2) Vinyl Chloride	2.11	62	56322	470.72 ppbv #	55
3) 1,1-Dichloroethene	3.27	61	99415	509.58 ppbv	95
4) Methyl tert-Butyl Ether (M	3.57	73	83526	310.63 ppbv #	15
5) trans-1,2-Dichloroethene	3.62	61	94303	512.17 ppbv	97
6) 1,1-Dichloroethane	3.79	63	120818	522.08 ppbv	96
7) cis-1,2-Dichloroethene	4.02	61	85040	471.17 ppbv	89
8) 1,1,1-Trichloroethane	4.25	97	142015	508.12 ppbv	98
10) Benzene	4.41	78	168132	420.87 ppbv	98
11) Trichloroethene	4.63	130	114556	487.35 ppbv	89
13) Toluene	5.11	91	210061	439.01 ppbv	100
14) Tetrachloroethene	5.43	166	136528	497.24 ppbv	98
15) Ethylbenzene	5.84	91	200318	354.00 ppbv	97
16) m&p-Xylenes	5.89	91	315687	778.22 ppbv	94
17) o-Xylene	6.18	91	141491	315.53 ppbv	94

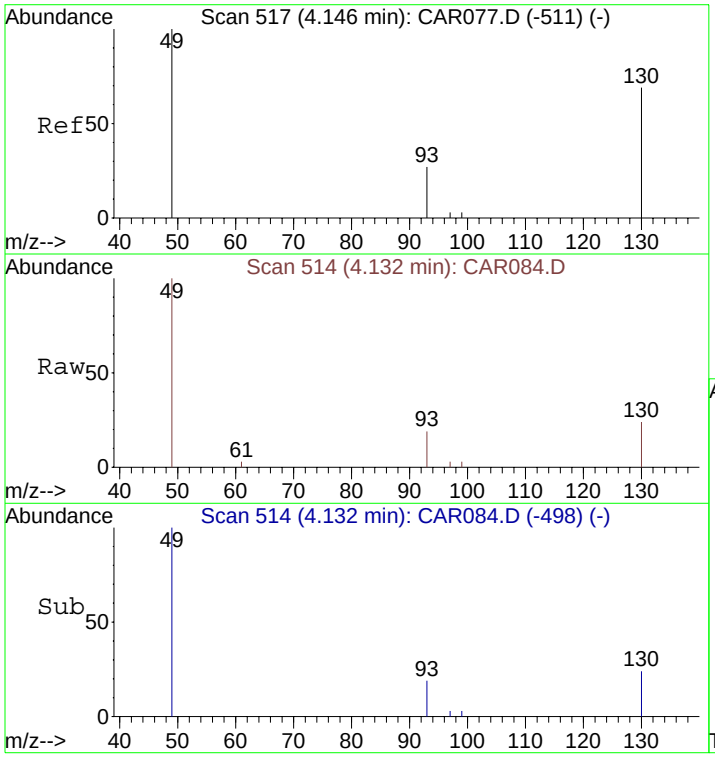
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR084.D Vial: 1
Acq On : 17 Sep 2008 10:10 Operator: dlm
Sample : 20080917-LCS Inst : Instrumen
Misc : 500 ppbv 2nd source Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 17 10:17 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

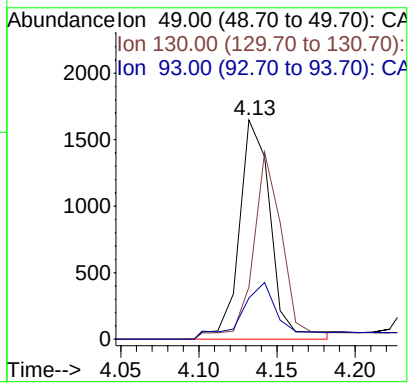


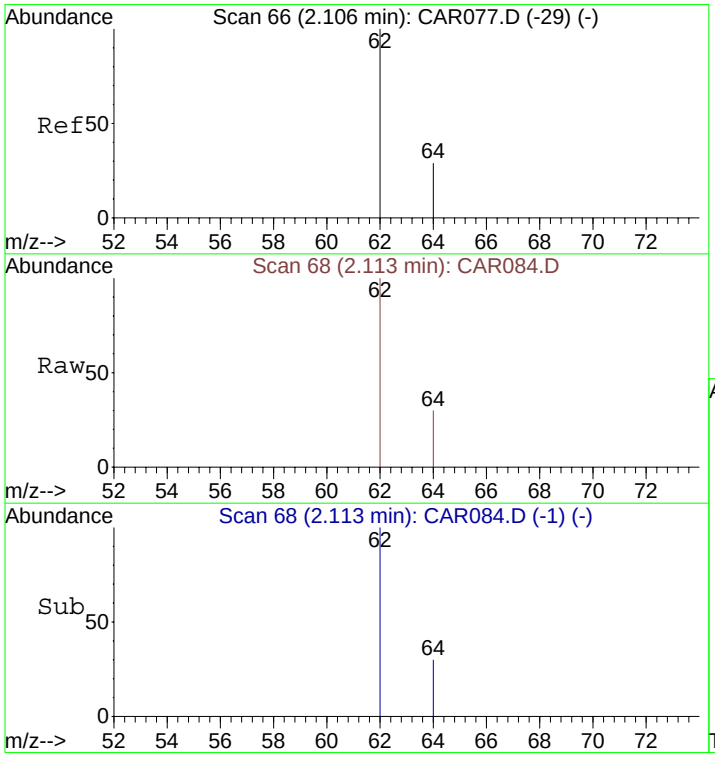


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.13 min Scan# 514
Delta R.T. -0.00 min
Lab File: CAR084.D
Acq: 17 Sep 2008 10:10

Tgt Ion: 49 Resp: 2085

Ion	Ratio	Lower	Upper
49	100		
130	81.5	65.1	97.7
93	31.9	33.8	50.6#

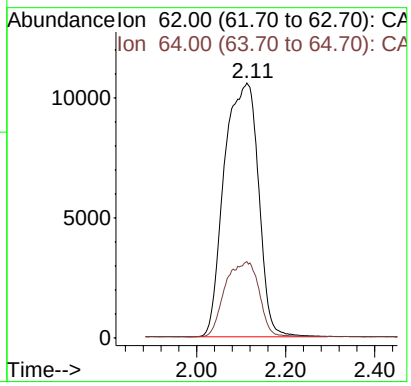


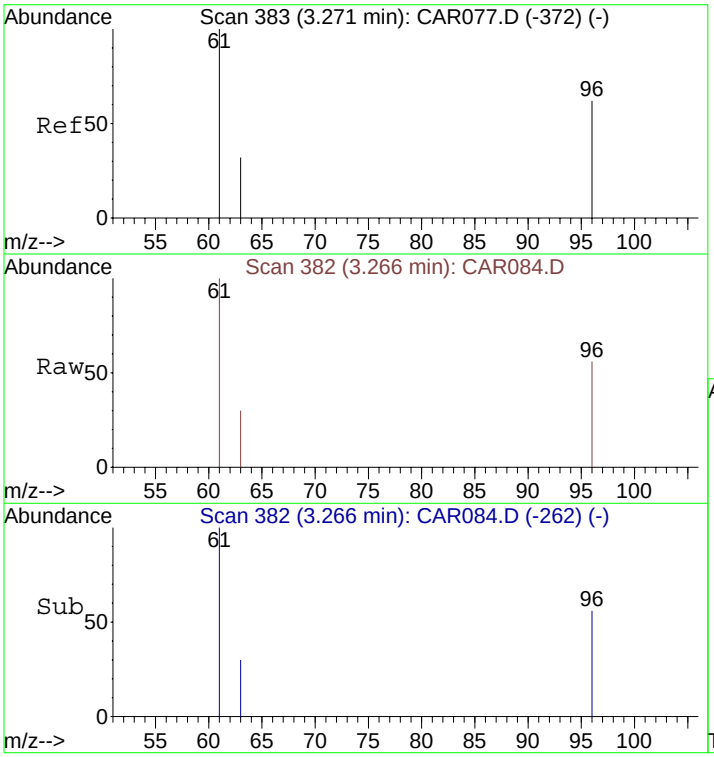


#2
Vinyl Chloride
Concen: 470.72 ppbv
RT: 2.11 min Scan# 68
Delta R.T. 0.00 min
Lab File: CAR084.D
Acq: 17 Sep 2008 10:10

Tgt Ion: 62 Resp: 56322

Ion	Ratio	Lower	Upper
62	100		
64	29.3	9.4	14.2#

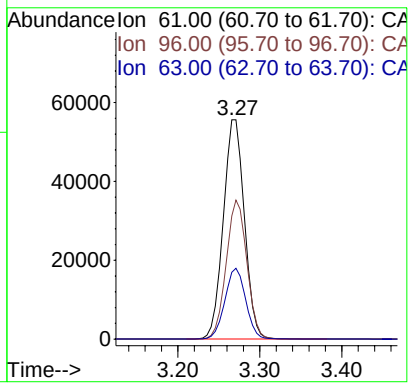


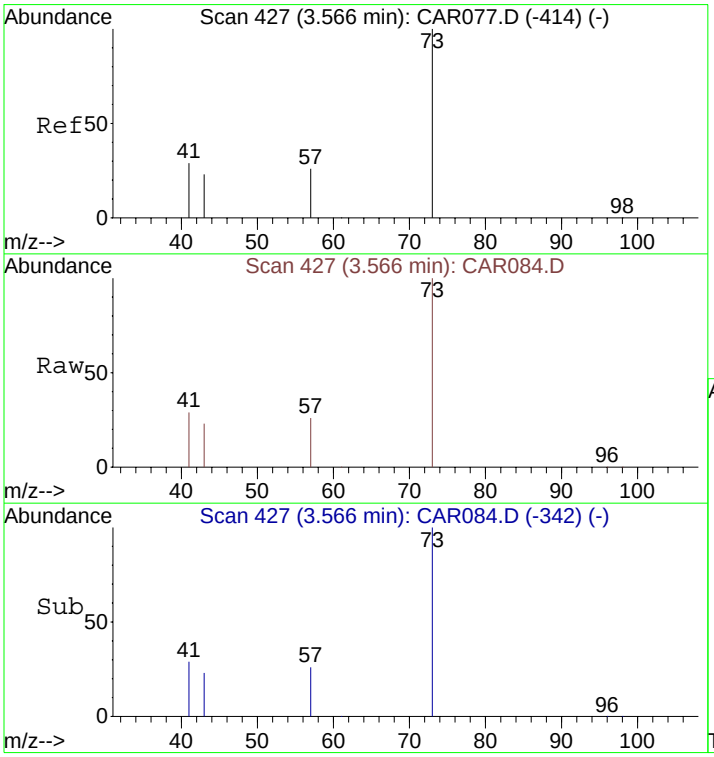


#3
1,1-Dichloroethene
Concen: 509.58 ppbv
RT: 3.27 min Scan# 382
Delta R.T. -0.00 min
Lab File: CAR084.D
Acq: 17 Sep 2008 10:10

Tgt Ion: 61 Resp: 99415

Ion	Ratio	Lower	Upper
61	100		
96	62.0	45.7	68.5
63	31.6	25.0	37.4

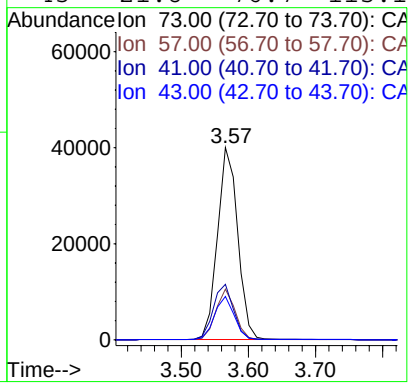


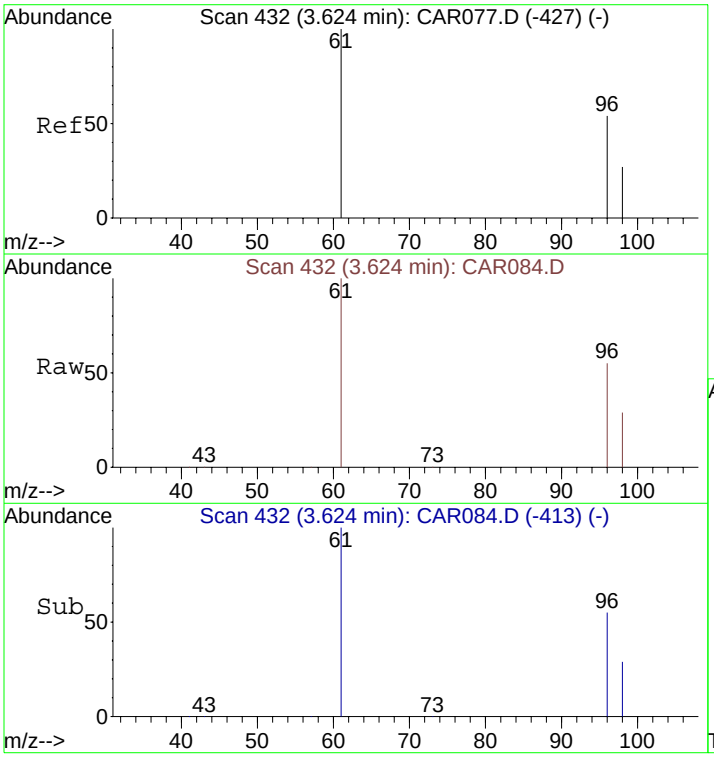


#4
Methyl tert-Butyl Ether (MTBE)
Concen: 310.63 ppbv
RT: 3.57 min Scan# 427
Delta R.T. 0.00 min
Lab File: CAR084.D
Acq: 17 Sep 2008 10:10

Tgt Ion: 73 Resp: 83526

Ion	Ratio	Lower	Upper
73	100		
57	25.3	32.6	49.0#
41	28.9	139.4	209.2#
43	21.8	76.7	115.1#

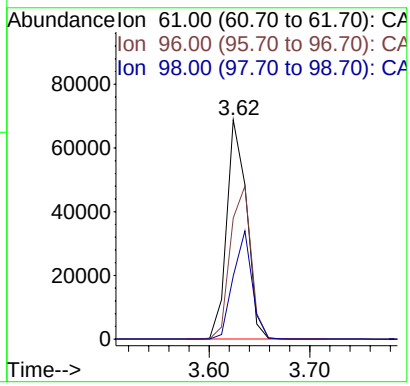


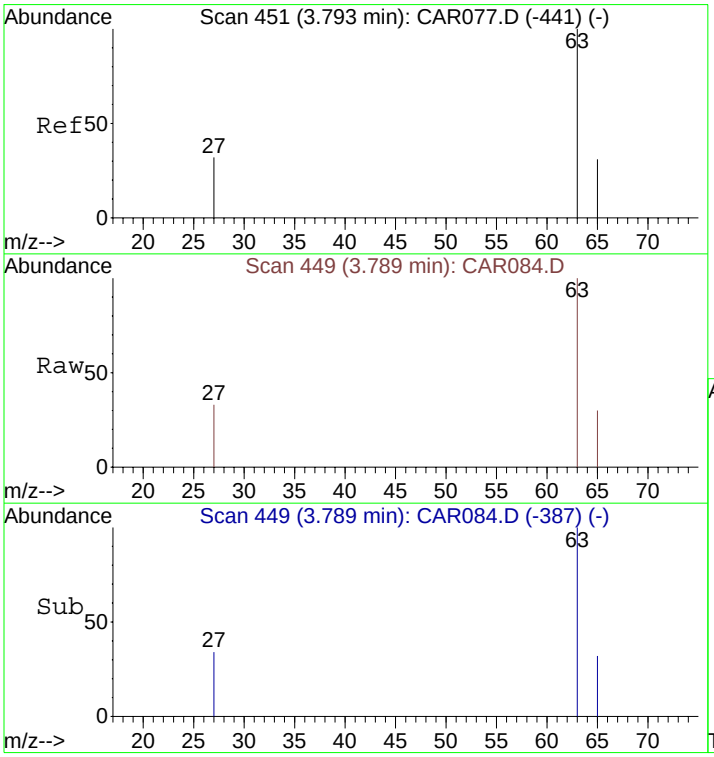


#5
trans-1,2-Dichloroethene
Concen: 512.17 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR084.D
Acq: 17 Sep 2008 10:10

Tgt Ion: 61 Resp: 94303

Ion	Ratio	Lower	Upper
61	100		
96	71.1	55.0	82.4
98	46.7	35.6	53.4

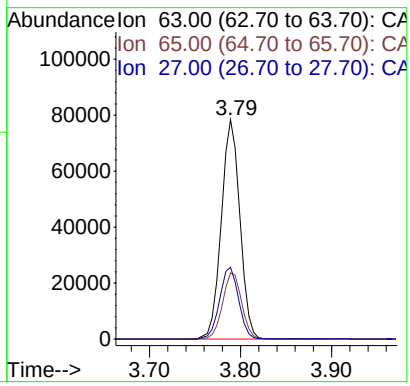


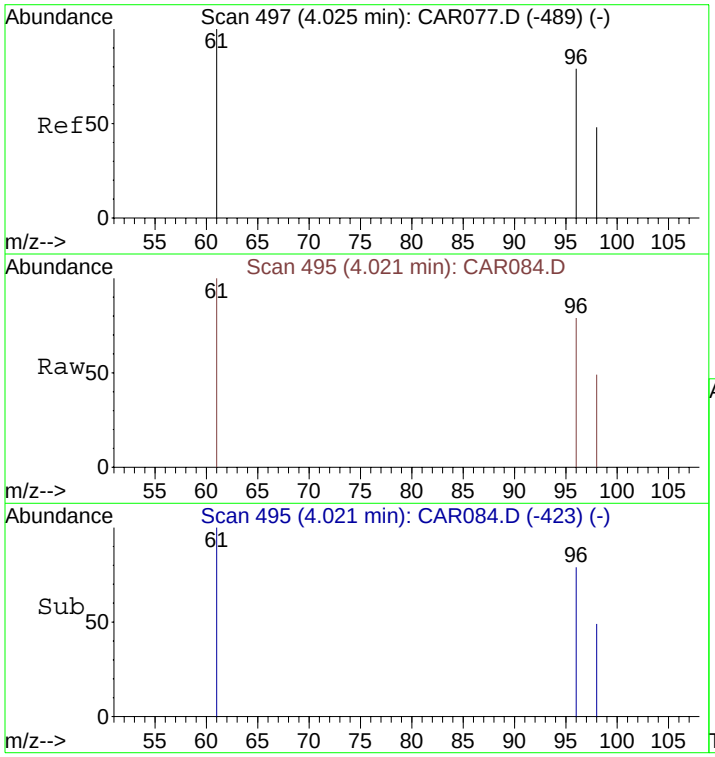


#6
1,1-Dichloroethane
Concen: 522.08 ppbv
RT: 3.79 min Scan# 449
Delta R.T. -0.00 min
Lab File: CAR084.D
Acq: 17 Sep 2008 10:10

Tgt Ion: 63 Resp: 120818

Ion	Ratio	Lower	Upper
63	100		
65	32.1	23.5	35.3
27	35.2	26.7	40.1

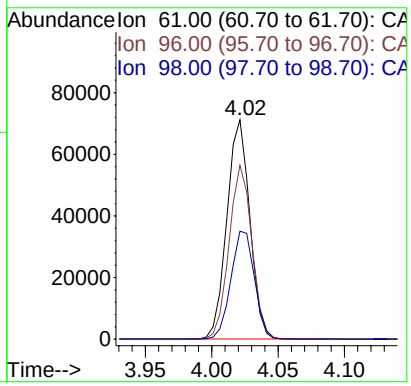


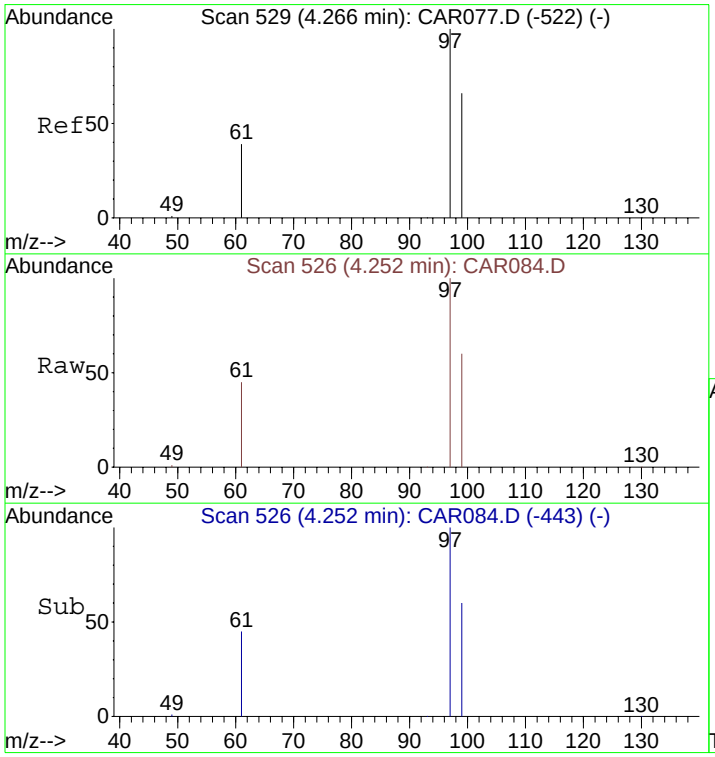


#7
cis-1,2-Dichloroethene
Concen: 471.17 ppbv
RT: 4.02 min Scan# 495
Delta R.T. 0.00 min
Lab File: CAR084.D
Acq: 17 Sep 2008 10:10

Tgt Ion: 61 Resp: 85040

Ion	Ratio	Lower	Upper
61	100		
96	78.9	56.0	84.0
98	53.4	36.2	54.4

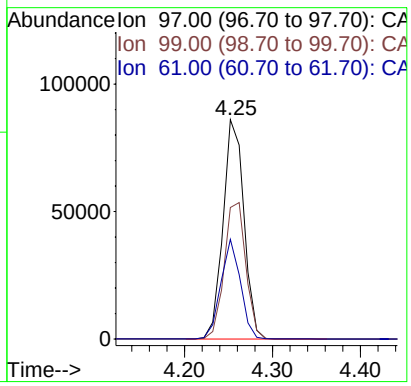


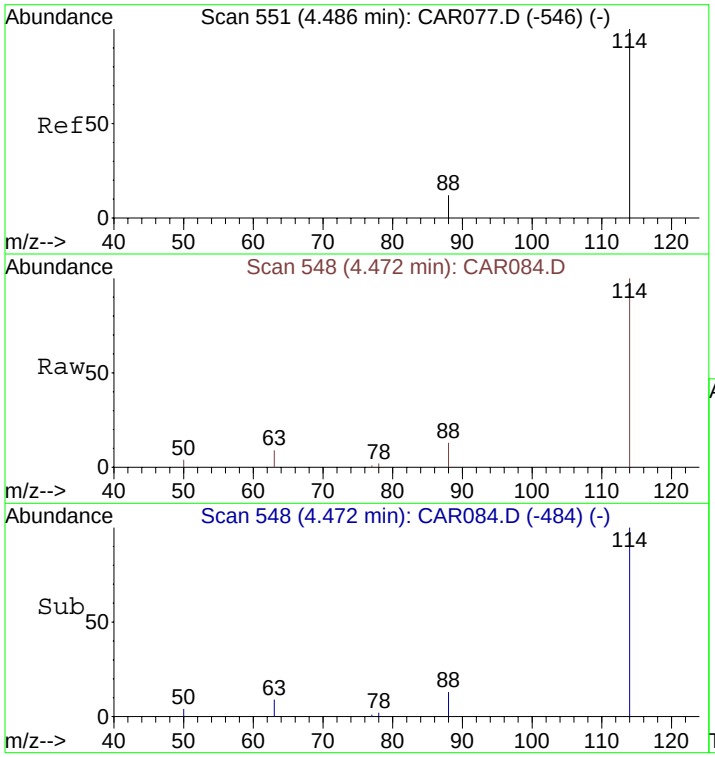


#8
1,1,1-Trichloroethane
Concen: 508.12 ppbv
RT: 4.25 min Scan# 526
Delta R.T. -0.00 min
Lab File: CAR084.D
Acq: 17 Sep 2008 10:10

Tgt Ion: 97 Resp: 142015

Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.8	77.8
61	42.9	32.1	48.1

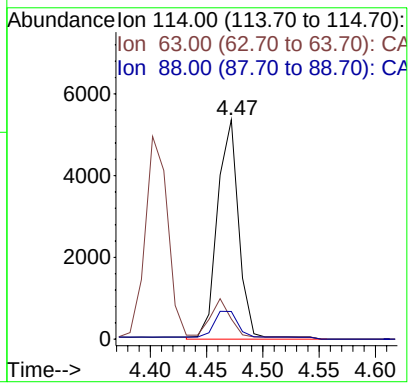


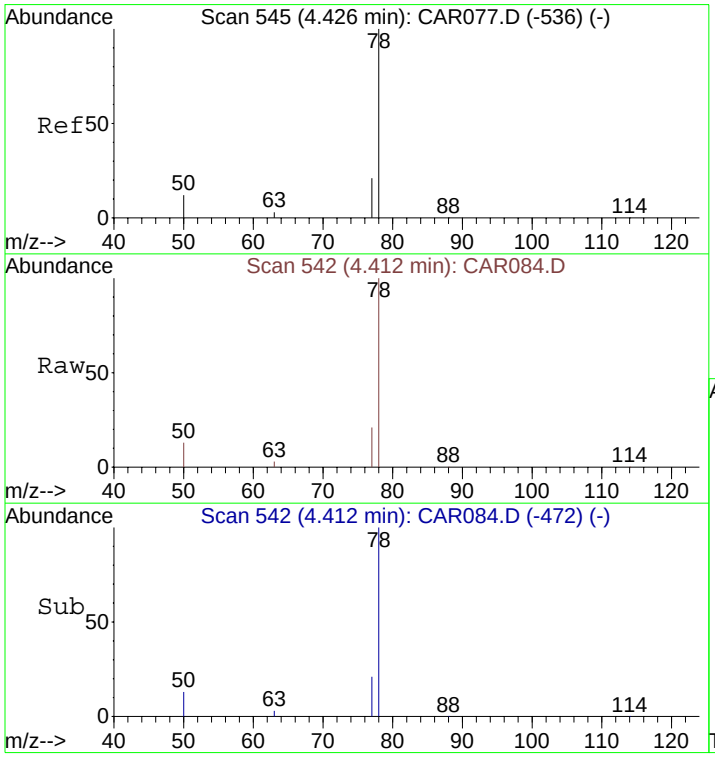


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 548
Delta R.T. 0.01 min
Lab File: CAR084.D
Acq: 17 Sep 2008 10:10

Tgt Ion:114 Resp: 6892

Ion	Ratio	Lower	Upper
114	100		
63	16.7	15.8	23.8
88	17.2	12.2	18.2

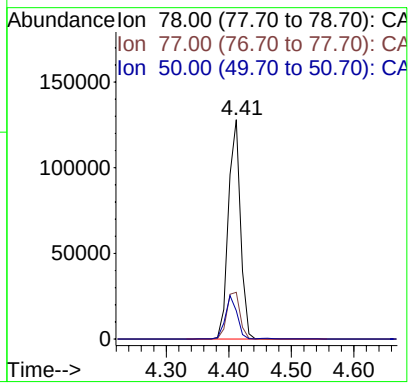


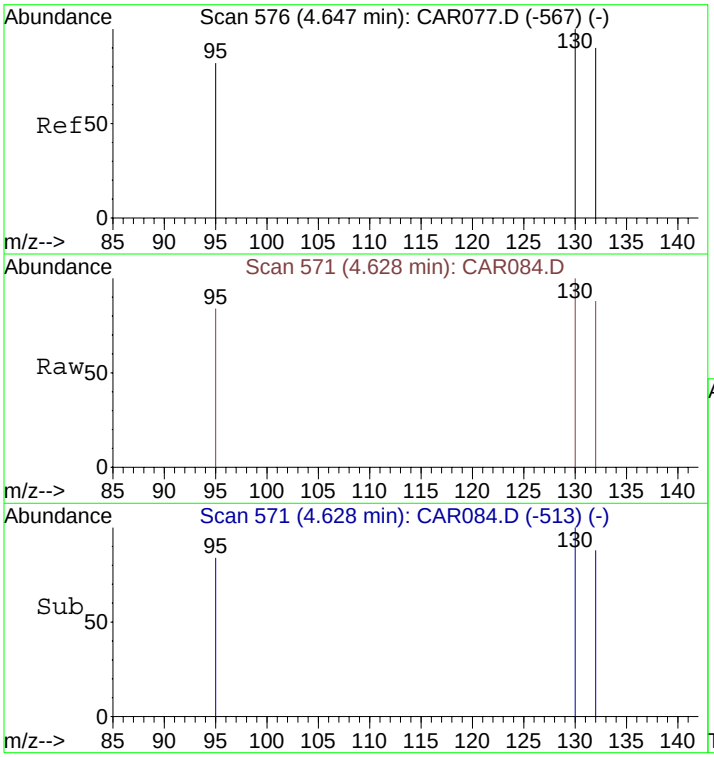


#10
Benzene
Concen: 420.87 ppbv
RT: 4.41 min Scan# 542
Delta R.T. 0.01 min
Lab File: CAR084.D
Acq: 17 Sep 2008 10:10

Tgt Ion: 78 Resp: 168132

Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.6	28.0
50	19.7	16.2	24.4

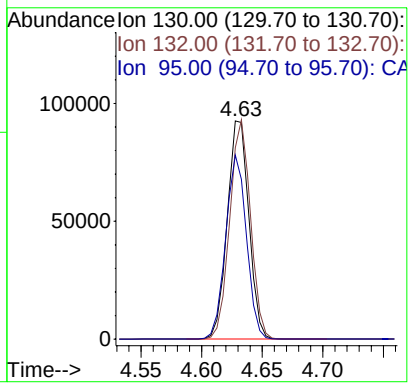


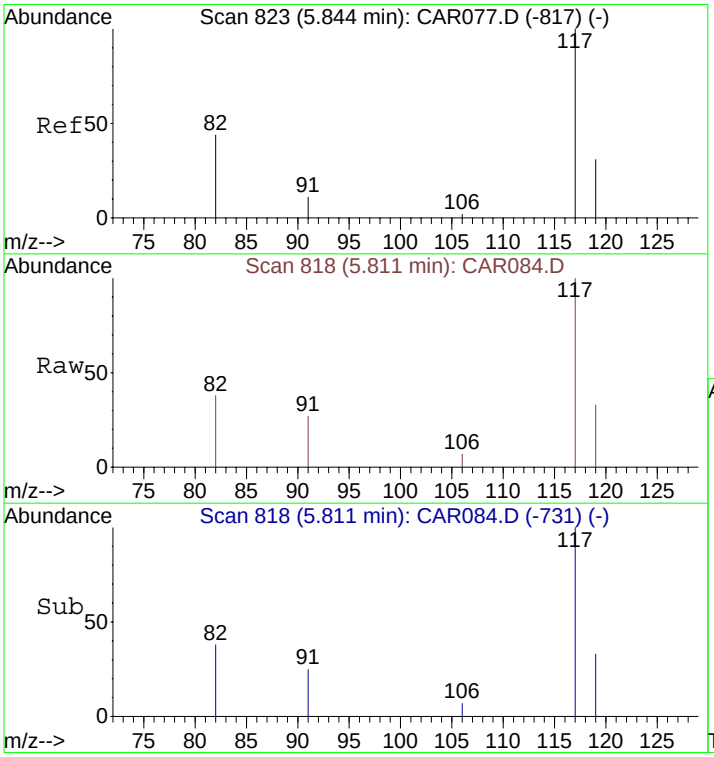


#11
Trichloroethene
Concen: 487.35 ppbv
RT: 4.63 min Scan# 571
Delta R.T. 0.00 min
Lab File: CAR084.D
Acq: 17 Sep 2008 10:10

Tgt Ion:130 Resp: 114556

Ion	Ratio	Lower	Upper
130	100		
132	102.9	73.8	110.6
95	81.0	72.5	108.7

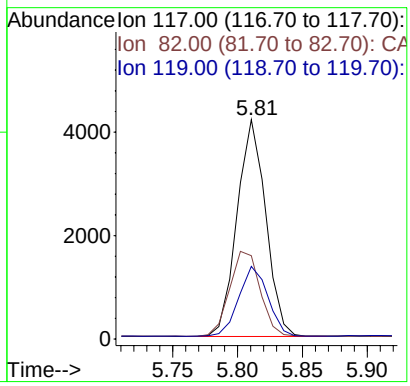


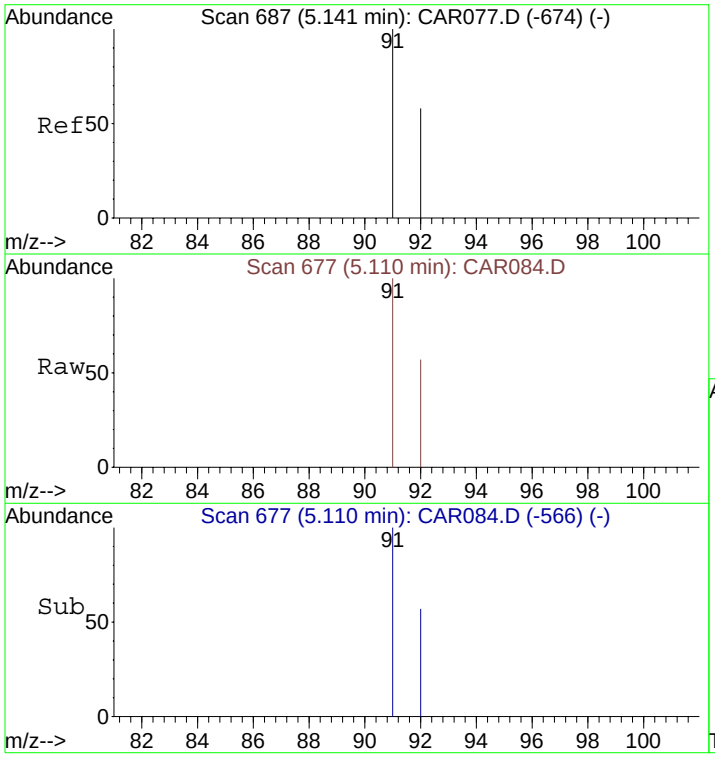


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.81 min Scan# 818
Delta R.T. 0.02 min
Lab File: CAR084.D
Acq: 17 Sep 2008 10:10

Tgt Ion:117 Resp: 6500

Ion	Ratio	Lower	Upper
117	100		
82	41.8	38.3	57.5
119	32.6	26.0	39.0

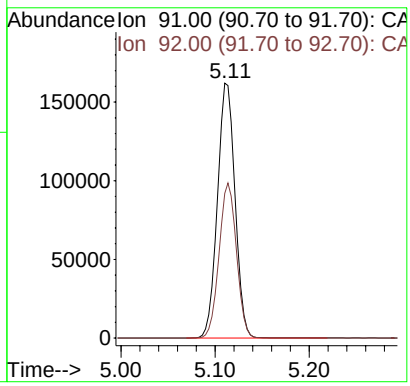


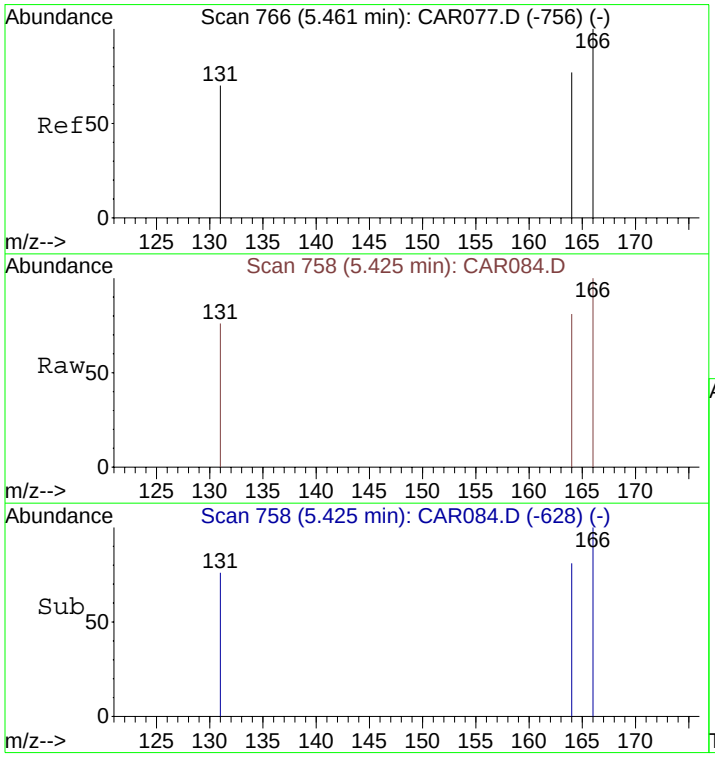


#13
Toluene
Concen: 439.01 ppbv
RT: 5.11 min Scan# 677
Delta R.T. 0.01 min
Lab File: CAR084.D
Acq: 17 Sep 2008 10:10

Tgt Ion: 91 Resp: 210061

Ion	Ratio	Lower	Upper
91	100		
92	60.1	48.2	72.2

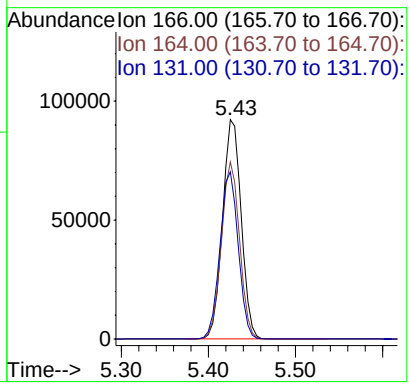


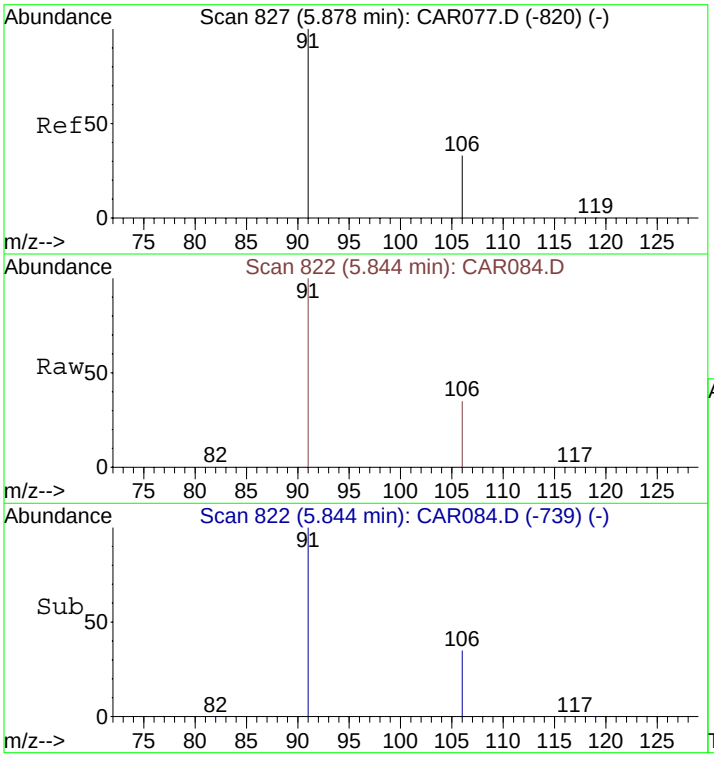


#14
Tetrachloroethene
Concen: 497.24 ppbv
RT: 5.43 min Scan# 758
Delta R.T. 0.01 min
Lab File: CAR084.D
Acq: 17 Sep 2008 10:10

Tgt Ion:166 Resp: 136528

Ion	Ratio	Lower	Upper
166	100		
164	78.9	63.1	94.7
131	74.9	62.9	94.3

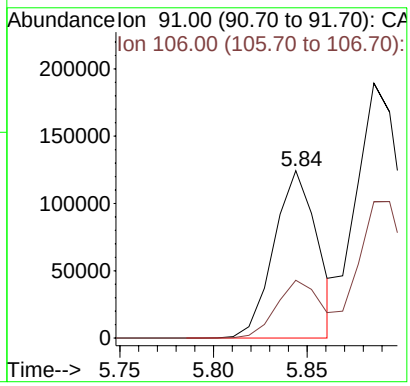


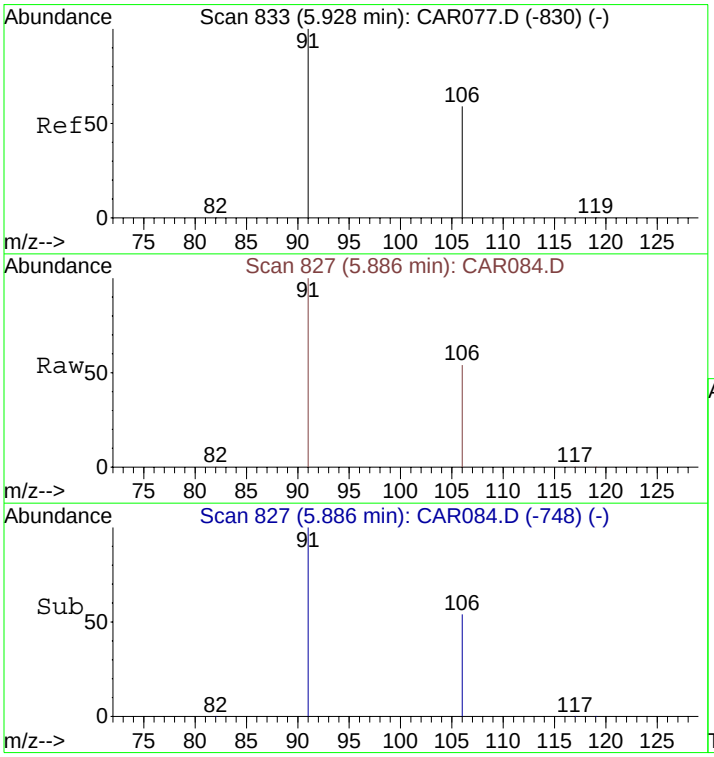


#15
Ethylbenzene
Concen: 354.00 ppbv
RT: 5.84 min Scan# 822
Delta R.T. 0.02 min
Lab File: CAR084.D
Acq: 17 Sep 2008 10:10

Tgt Ion: 91 Resp: 200318

Ion	Ratio	Lower	Upper
91	100		
106	34.6	26.3	39.5

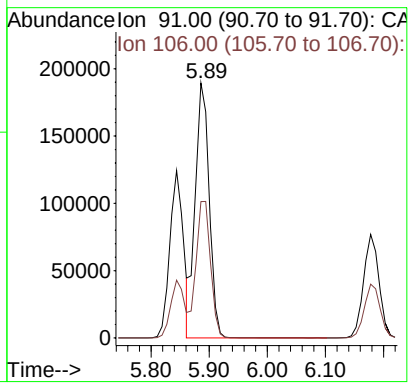


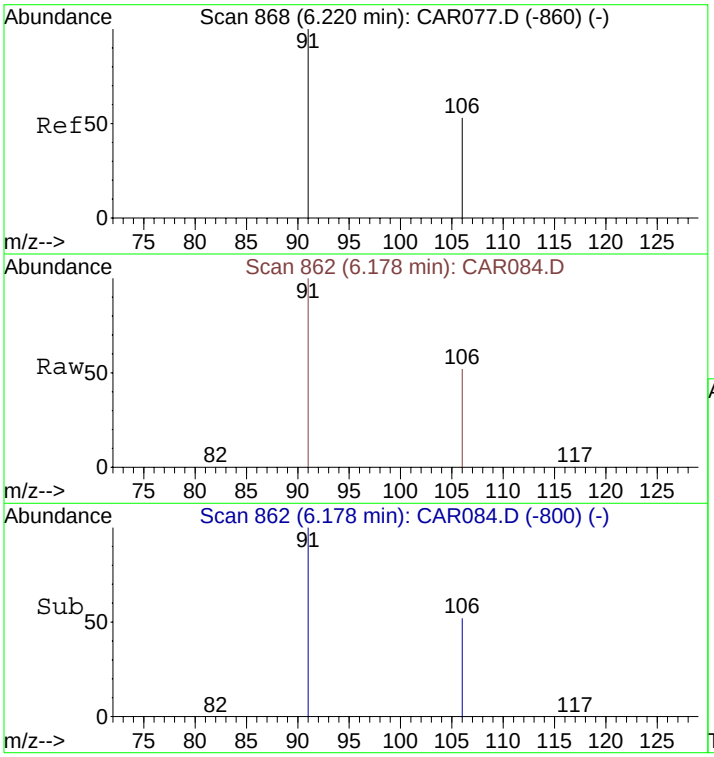


#16
m&p-Xylenes
Concen: 778.22 ppbv
RT: 5.89 min Scan# 827
Delta R.T. 0.01 min
Lab File: CAR084.D
Acq: 17 Sep 2008 10:10

Tgt Ion: 91 Resp: 315687

Ion	Ratio	Lower	Upper
91	100		
106	56.2	41.8	62.8

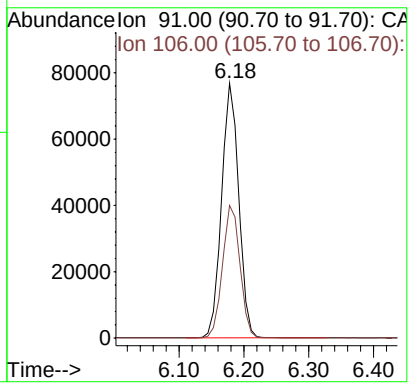




#17
o-Xylene
Concen: 315.53 ppbv
RT: 6.18 min Scan# 862
Delta R.T. 0.02 min
Lab File: CAR084.D
Acq: 17 Sep 2008 10:10

Tgt Ion: 91 Resp: 141491

Ion	Ratio	Lower	Upper
91	100		
106	52.9	38.9	58.3



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\20080917\CAR116.D Vial: 1
Acq On : 17 Sep 2008 18:46 Operator: dlm
Sample : 20080917-LCS-2 Inst : Instrumen
Misc : 500 ppbv 2nd source std. Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:13:30 2008
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	Bromochloromethane	10.000	10.000	0.0	91	-0.01
2	Vinyl Chloride	500.000	457.698	8.5	88	0.00
3	1,1-Dichloroethene	500.000	499.700	0.1	92	0.00
4	Methyl tert-Butyl Ether (MT	500.000	296.444	40.7#	57	0.00
5	trans-1,2-Dichloroethene	500.000	490.380	1.9	92	0.00
6	1,1-Dichloroethane	500.000	522.121	-4.4	92	0.00
7	cis-1,2-Dichloroethene	500.000	460.952	7.8	90	0.00
8	1,1,1-Trichloroethane	500.000	501.242	-0.2	92	-0.01
9	1,4-Difluorobenzene	10.000	10.000	0.0	86	-0.01
10	Benzene	500.000	431.991	13.6	87	-0.01
11	Trichloroethene	500.000	500.639	-0.1	89	-0.02
12	Chlorobenzene-d5	10.000	10.000	0.0	86	-0.04
13	Toluene	500.000	443.666	11.3	78	-0.04
14	Tetrachloroethene	500.000	500.826	-0.2	89	-0.04
15	Ethylbenzene	500.000	368.681	26.3	62	-0.04
16	m&p-Xylenes	1000.000	804.713	19.5	64	-0.05
17	o-Xylene	500.000	328.508	34.3#	57	-0.05

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR116.D Vial: 1
Acq On : 17 Sep 2008 18:46 Operator: dlm
Sample : 20080917-LCS-2 Inst : Instrumen
Misc : 500 ppbv 2nd source std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 17 18:57:03 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.13	49	1872	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	5776	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.80	117	5558	10.00 ppbv	0.00

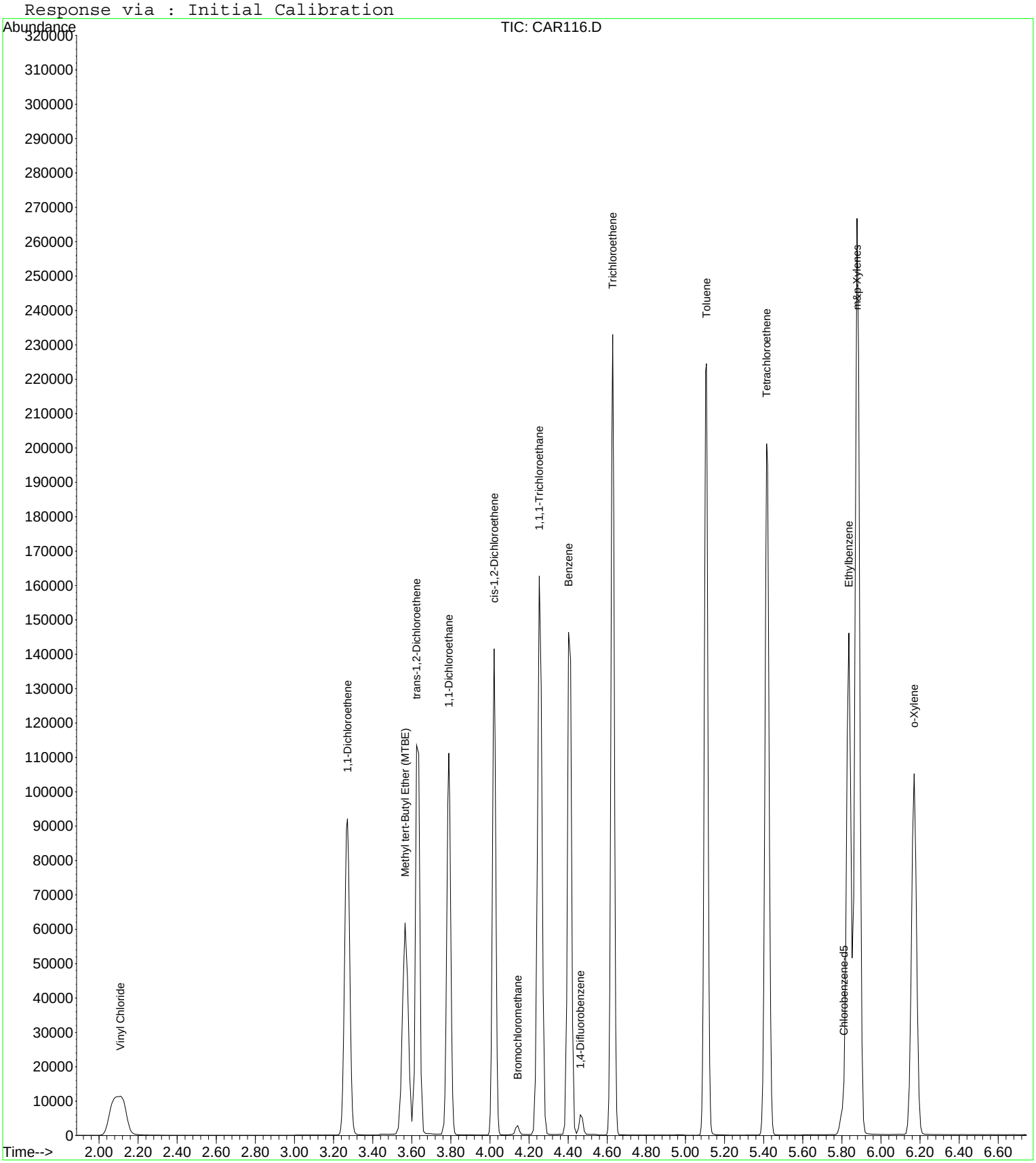
Target Compounds					Qvalue
2) Vinyl Chloride	2.11	62	49169m	457.70 ppbv	
3) 1,1-Dichloroethene	3.27	61	87528	499.70 ppbv	97
4) Methyl tert-Butyl Ether (M	3.57	73	71569	296.44 ppbv #	16
5) trans-1,2-Dichloroethene	3.62	61	81067	490.38 ppbv	97
6) 1,1-Dichloroethane	3.79	63	108483	522.12 ppbv	96
7) cis-1,2-Dichloroethene	4.02	61	74696	460.95 ppbv	89
8) 1,1,1-Trichloroethane	4.25	97	125782	501.24 ppbv	98
10) Benzene	4.41	78	144629	431.99 ppbv	100
11) Trichloroethene	4.63	130	98624	500.64 ppbv	93
13) Toluene	5.10	91	181524	443.67 ppbv	99
14) Tetrachloroethene	5.42	166	117585	500.83 ppbv	98
15) Ethylbenzene	5.84	91	178392	368.68 ppbv	97
16) m&p-Xylenes	5.88	91	279125	804.71 ppbv	95
17) o-Xylene	6.17	91	125961	328.51 ppbv	95

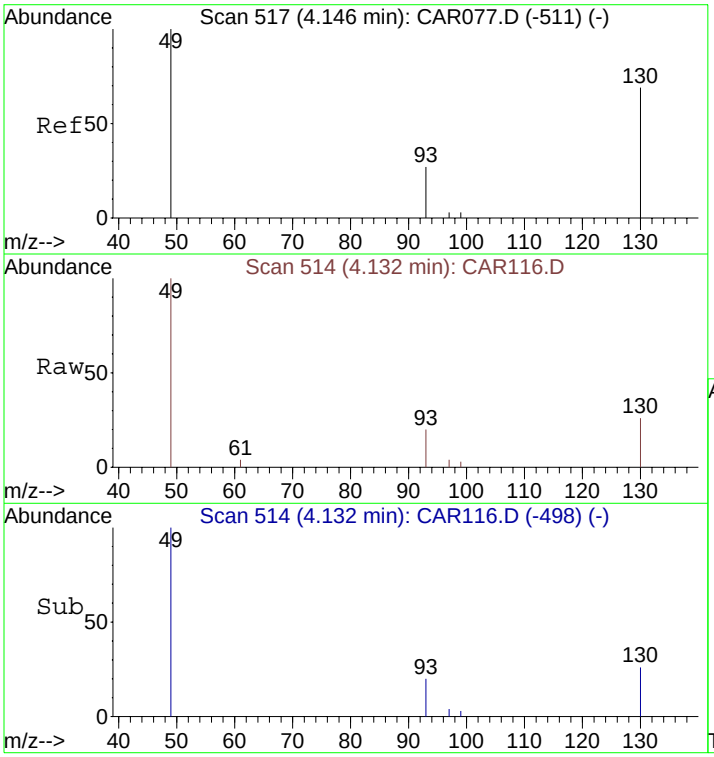
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR116.D Vial: 1
Acq On : 17 Sep 2008 18:46 Operator: dlm
Sample : 20080917-LCS-2 Inst : Instrumen
Misc : 500 ppbv 2nd source std. Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 30 9:57 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

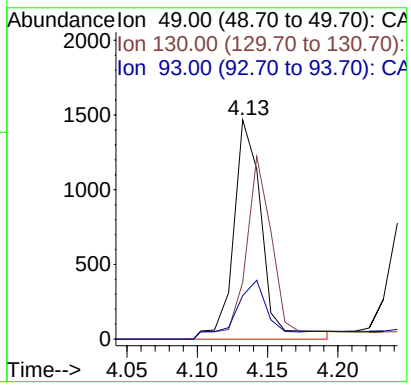


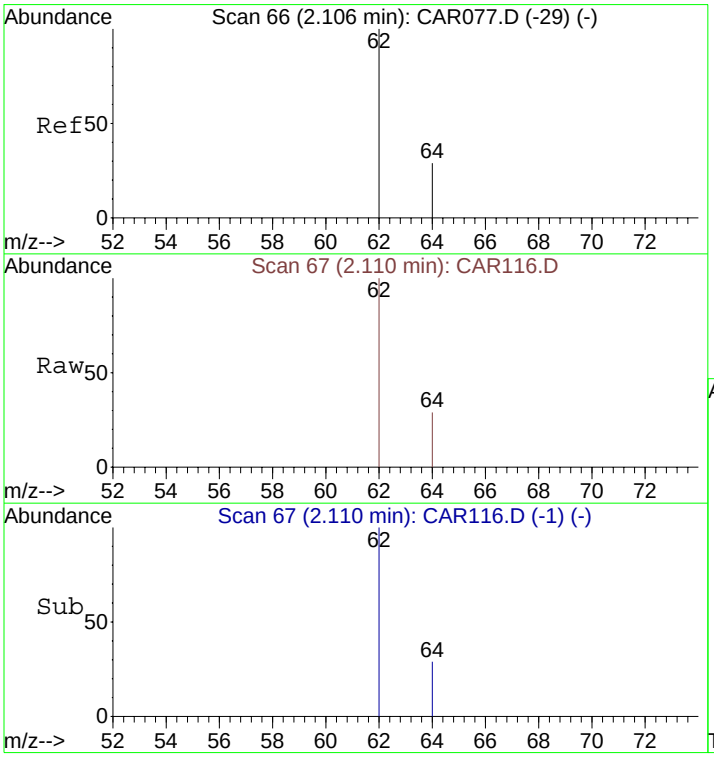


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.13 min Scan# 514
Delta R.T. -0.00 min
Lab File: CAR116.D
Acq: 17 Sep 2008 18:46

Tgt Ion: 49 Resp: 1872

Ion	Ratio	Lower	Upper
49	100		
130	78.2	65.1	97.7
93	31.1	33.8	50.6#

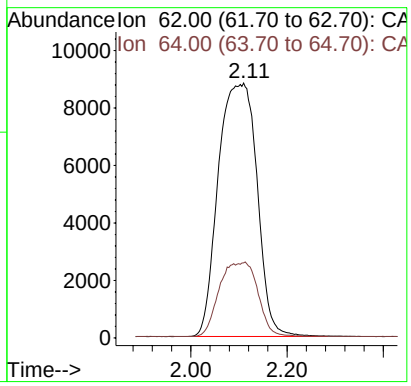


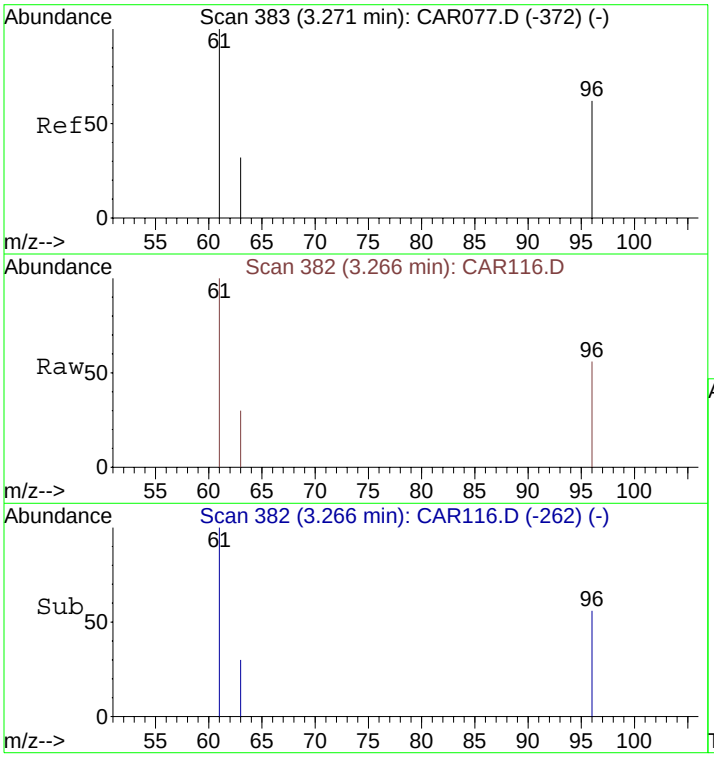


#2
Vinyl Chloride
Concen: 457.70 ppbv m
RT: 2.11 min Scan# 67
Delta R.T. -0.00 min
Lab File: CAR116.D
Acq: 17 Sep 2008 18:46

Tgt Ion: 62 Resp: 49169

Ion	Ratio	Lower	Upper
62	100		
64	30.2	9.4	14.2#

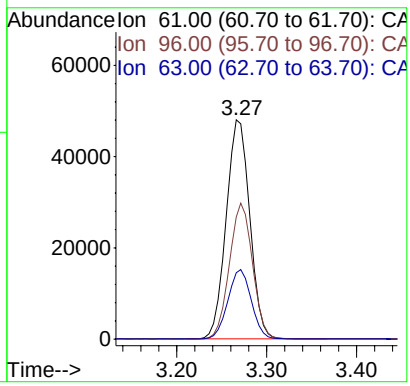


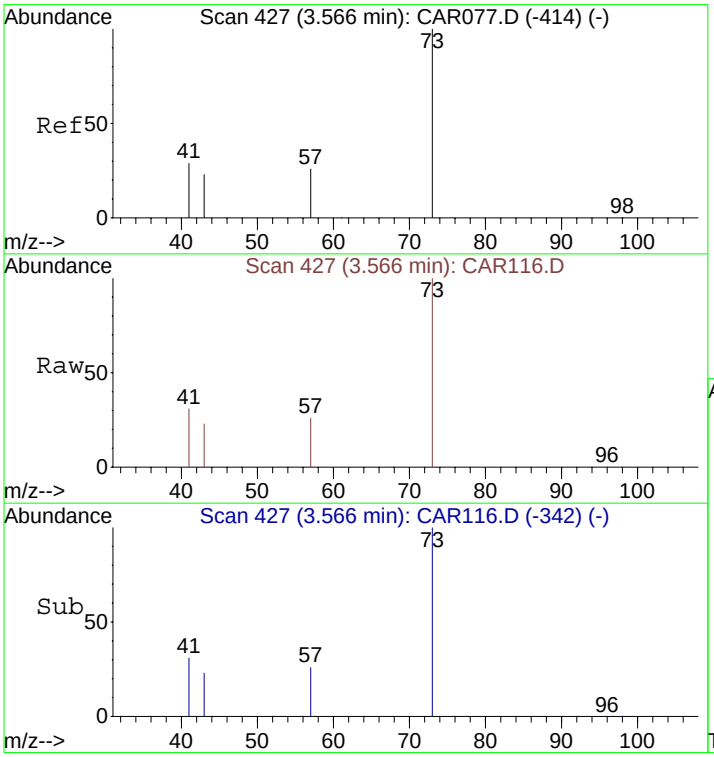


#3
1,1-Dichloroethene
Concen: 499.70 ppbv
RT: 3.27 min Scan# 382
Delta R.T. -0.00 min
Lab File: CAR116.D
Acq: 17 Sep 2008 18:46

Tgt Ion: 61 Resp: 87528

Ion	Ratio	Lower	Upper
61	100		
96	60.7	45.7	68.5
63	31.3	25.0	37.4

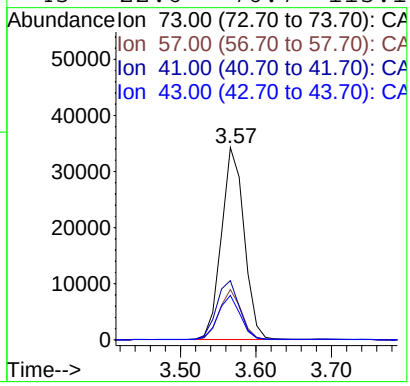


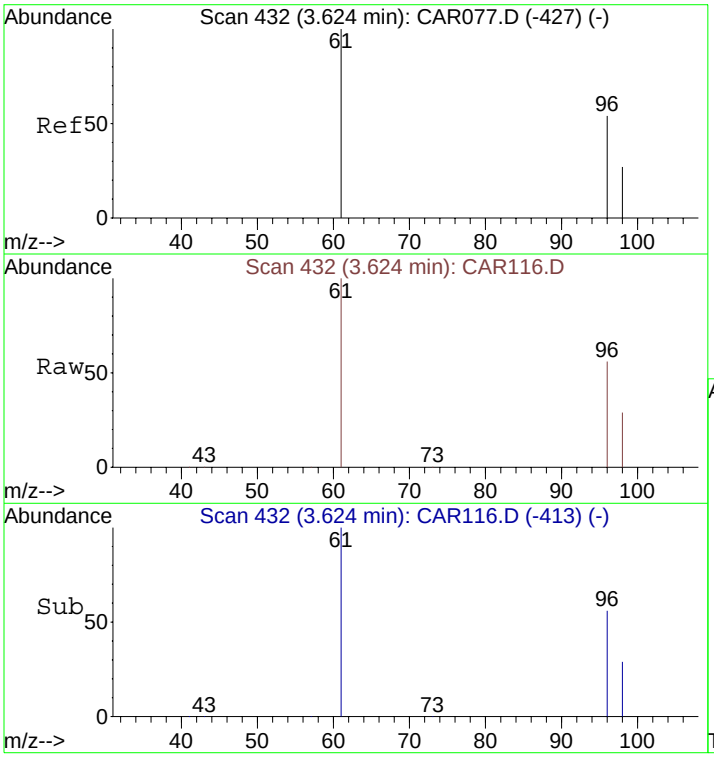


#4
Methyl tert-Butyl Ether (MTBE)
Concen: 296.44 ppbv
RT: 3.57 min Scan# 427
Delta R.T. 0.00 min
Lab File: CAR116.D
Acq: 17 Sep 2008 18:46

Tgt Ion: 73 Resp: 71569

Ion	Ratio	Lower	Upper
73	100		
57	25.3	32.6	49.0#
41	31.1	139.4	209.2#
43	22.6	76.7	115.1#

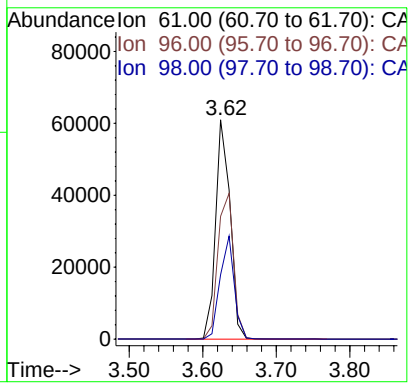


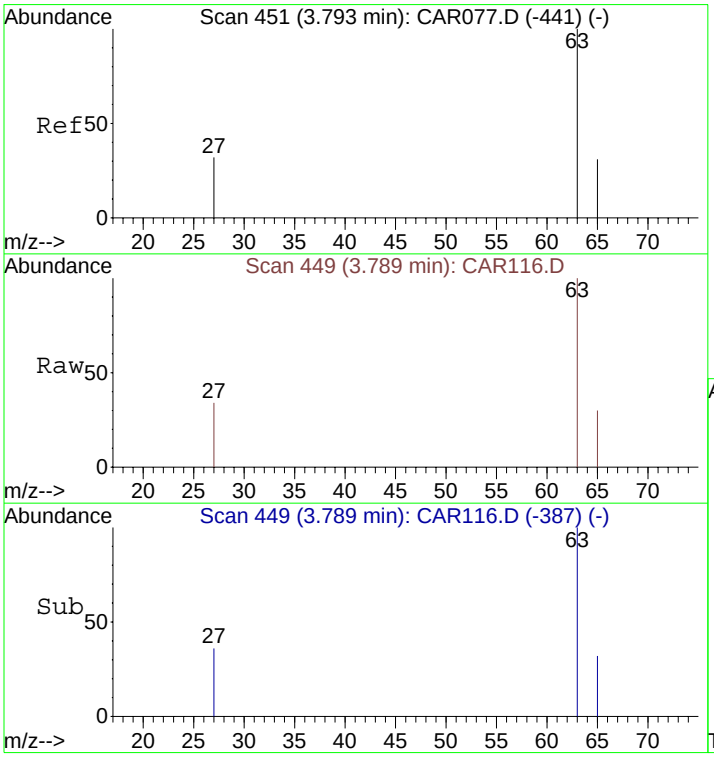


#5
trans-1,2-Dichloroethene
Concen: 490.38 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR116.D
Acq: 17 Sep 2008 18:46

Tgt Ion: 61 Resp: 81067

Ion	Ratio	Lower	Upper
61	100		
96	71.8	55.0	82.4
98	46.1	35.6	53.4

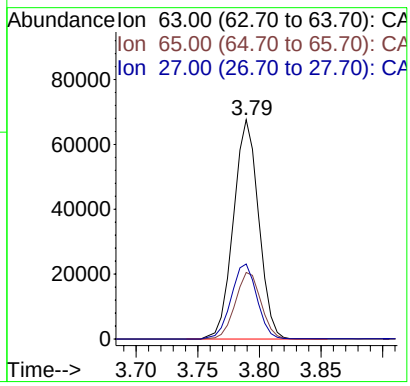


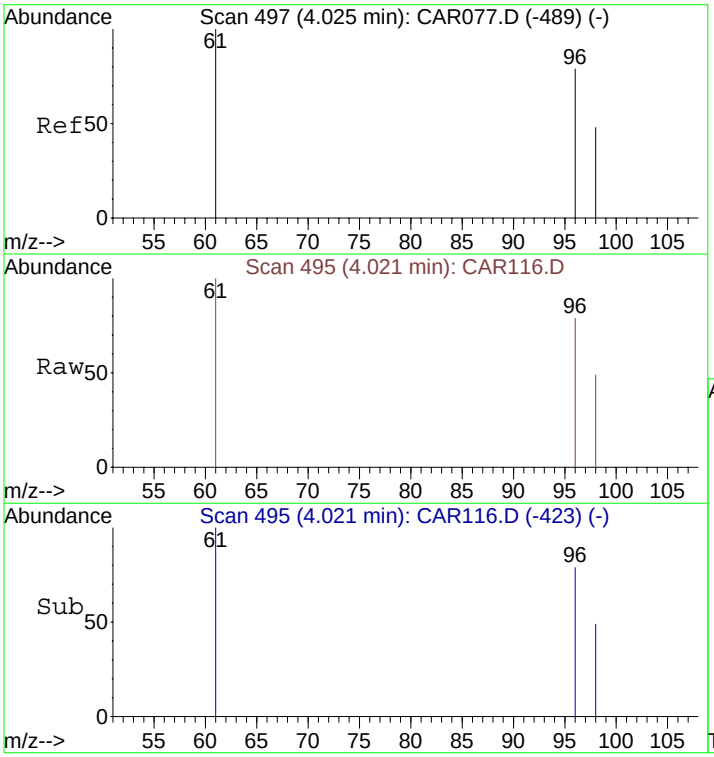


#6
1,1-Dichloroethane
Concen: 522.12 ppbv
RT: 3.79 min Scan# 449
Delta R.T. -0.00 min
Lab File: CAR116.D
Acq: 17 Sep 2008 18:46

Tgt Ion: 63 Resp: 108483

Ion	Ratio	Lower	Upper
63	100		
65	31.6	23.5	35.3
27	35.2	26.7	40.1

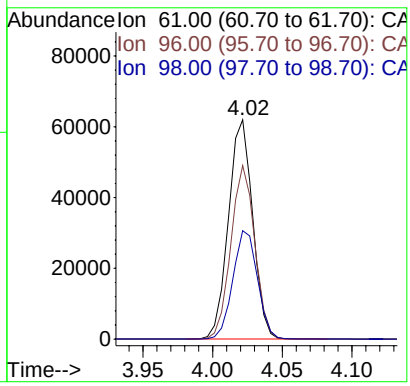


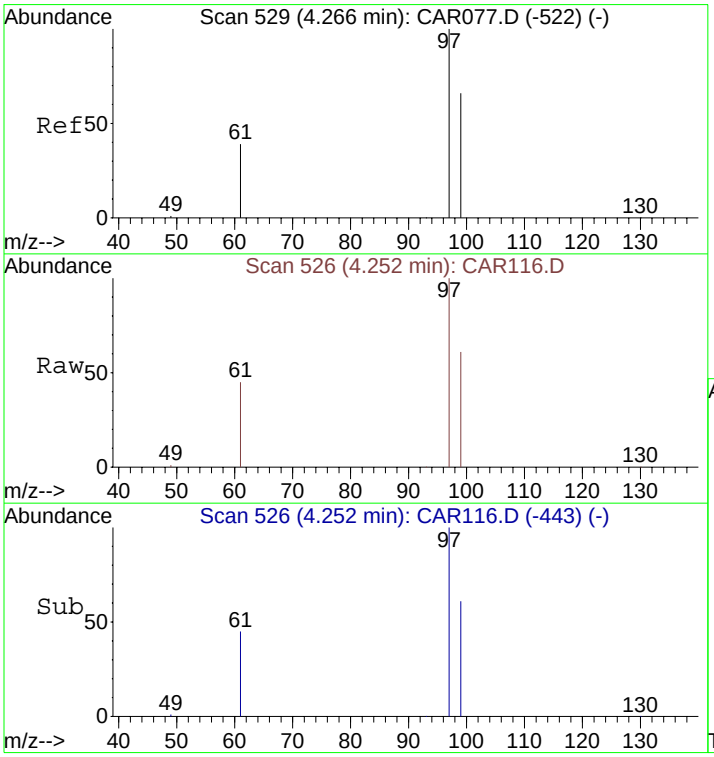


#7
cis-1,2-Dichloroethene
Concen: 460.95 ppbv
RT: 4.02 min Scan# 495
Delta R.T. 0.00 min
Lab File: CAR116.D
Acq: 17 Sep 2008 18:46

Tgt Ion: 61 Resp: 74696

Ion	Ratio	Lower	Upper
61	100		
96	81.5	56.0	84.0
98	50.2	36.2	54.4

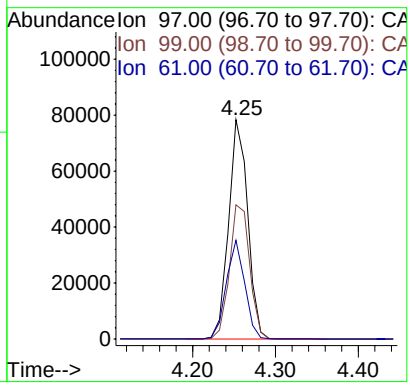


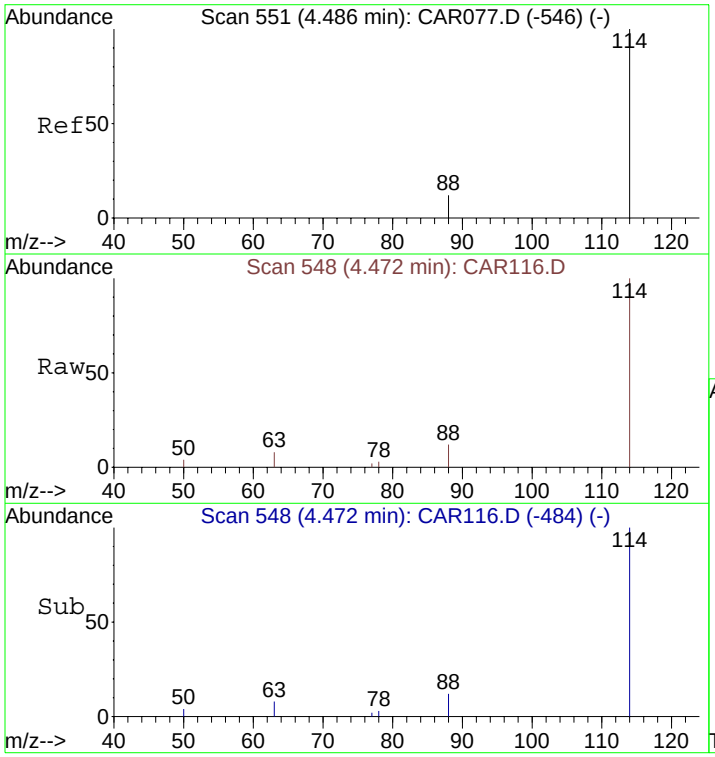


#8
1,1,1-Trichloroethane
Concen: 501.24 ppbv
RT: 4.25 min Scan# 526
Delta R.T. -0.00 min
Lab File: CAR116.D
Acq: 17 Sep 2008 18:46

Tgt Ion: 97 Resp: 125782

Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.8	77.8
61	43.8	32.1	48.1

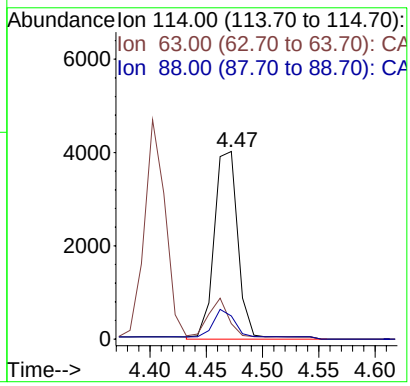


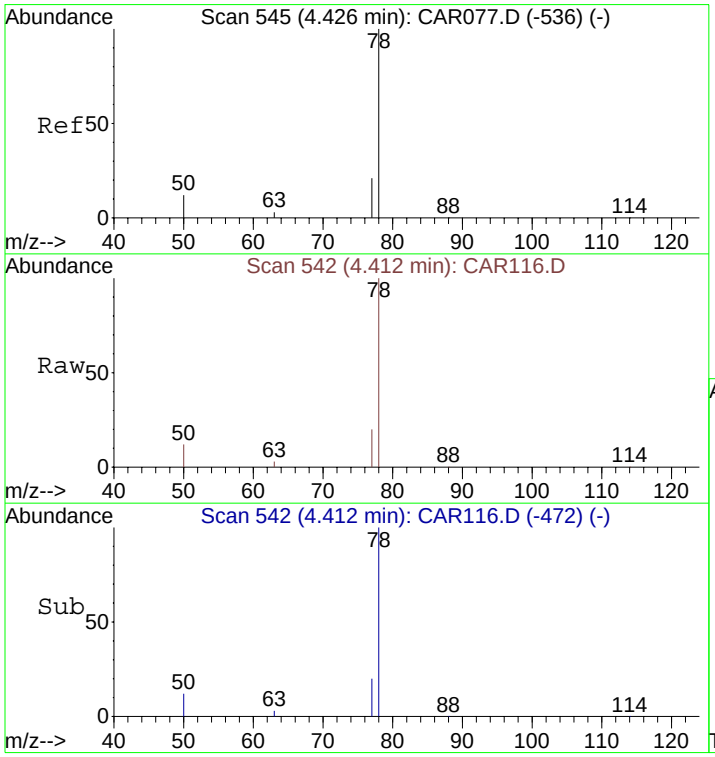


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 548
Delta R.T. 0.01 min
Lab File: CAR116.D
Acq: 17 Sep 2008 18:46

Tgt Ion:114 Resp: 5776

Ion	Ratio	Lower	Upper
114	100		
63	18.3	15.8	23.8
88	17.9	12.2	18.2

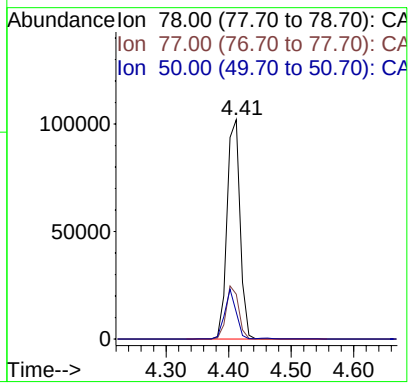


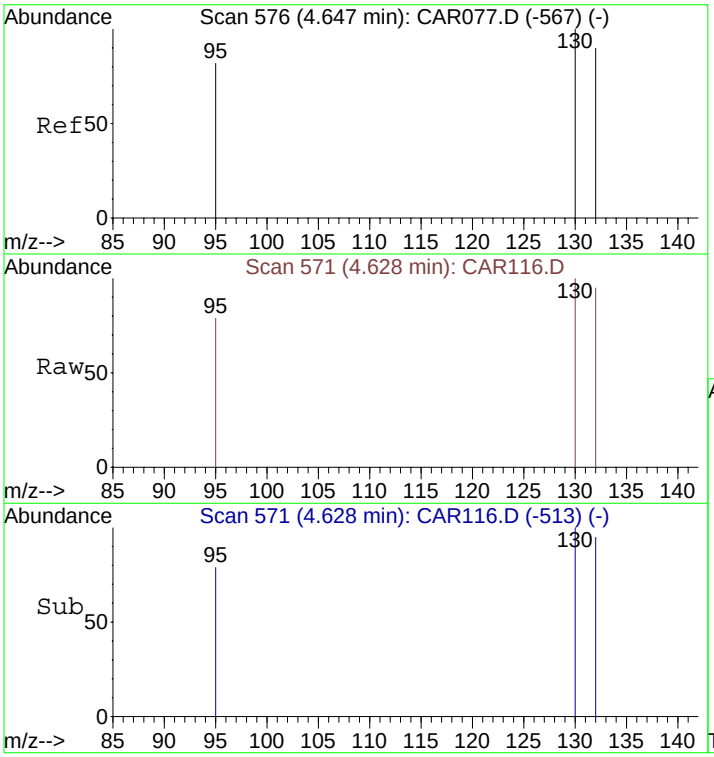


#10
Benzene
Concen: 431.99 ppbv
RT: 4.41 min Scan# 542
Delta R.T. 0.01 min
Lab File: CAR116.D
Acq: 17 Sep 2008 18:46

Tgt Ion: 78 Resp: 144629

Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.6	28.0
50	20.4	16.2	24.4

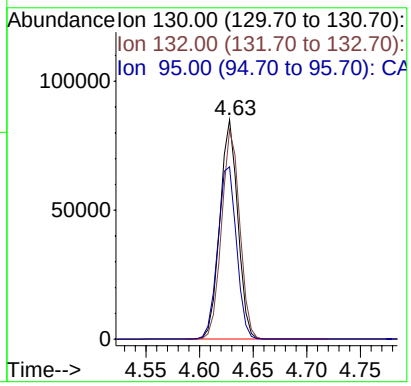


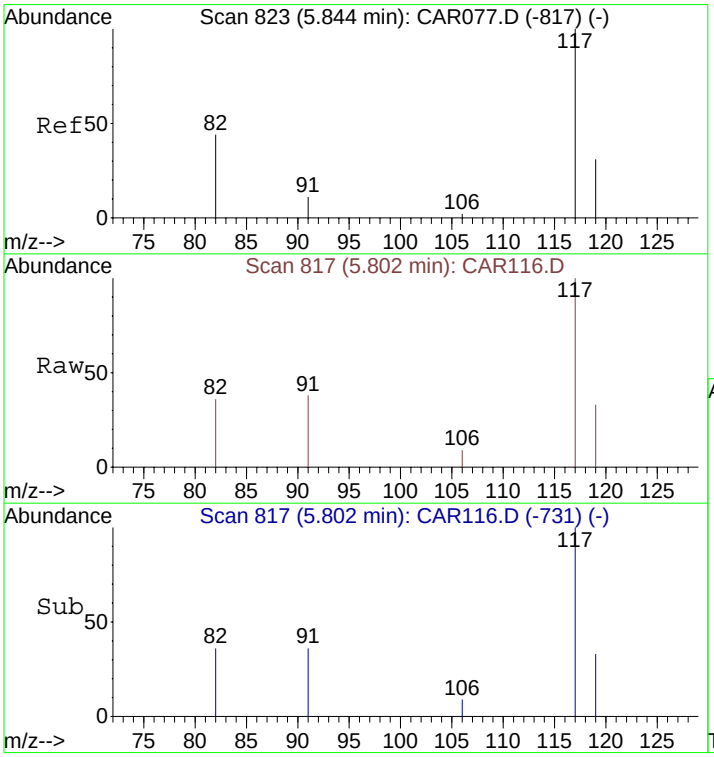


#11
Trichloroethene
Concen: 500.64 ppbv
RT: 4.63 min Scan# 571
Delta R.T. 0.00 min
Lab File: CAR116.D
Acq: 17 Sep 2008 18:46

Tgt Ion:130 Resp: 98624

Ion	Ratio	Lower	Upper
130	100		
132	96.6	73.8	110.6
95	82.2	72.5	108.7

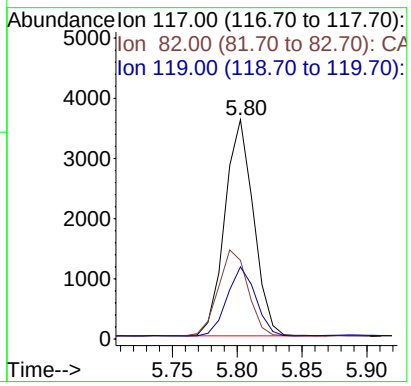


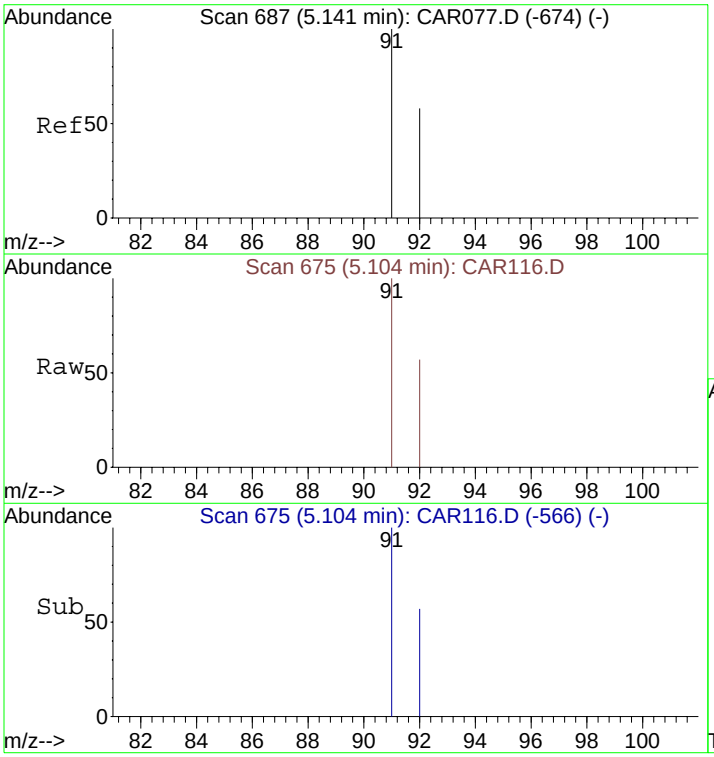


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.80 min Scan# 817
Delta R.T. 0.01 min
Lab File: CAR116.D
Acq: 17 Sep 2008 18:46

Tgt Ion:117 Resp: 5558

Ion	Ratio	Lower	Upper
117	100		
82	40.9	38.3	57.5
119	31.7	26.0	39.0

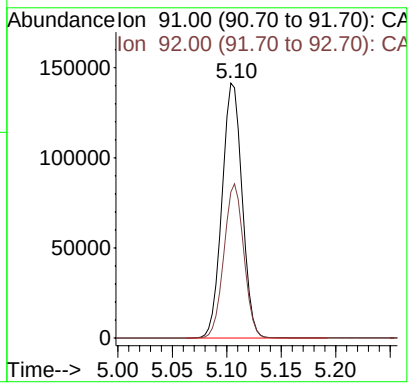


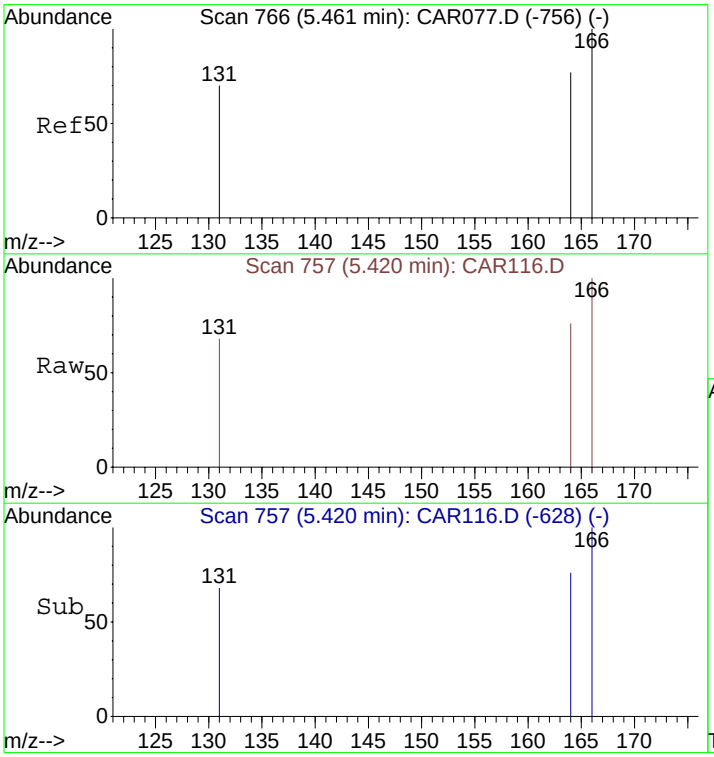


#13
Toluene
Concen: 443.67 ppbv
RT: 5.10 min Scan# 675
Delta R.T. 0.00 min
Lab File: CAR116.D
Acq: 17 Sep 2008 18:46

Tgt Ion: 91 Resp: 181524

Ion	Ratio	Lower	Upper
91	100		
92	59.8	48.2	72.2

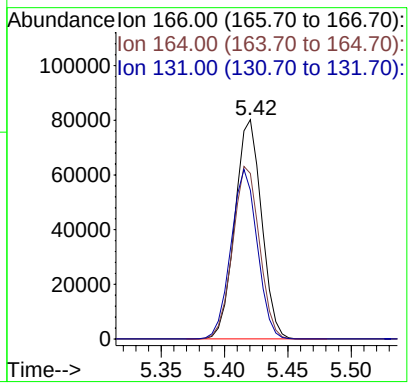


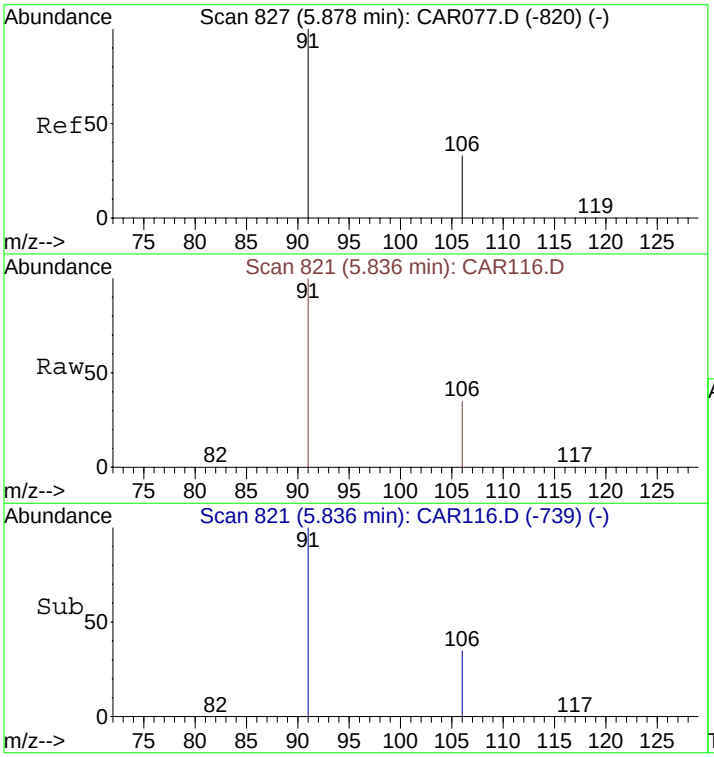


#14
Tetrachloroethene
Concen: 500.83 ppbv
RT: 5.42 min Scan# 757
Delta R.T. 0.01 min
Lab File: CAR116.D
Acq: 17 Sep 2008 18:46

Tgt Ion:166 Resp: 117585

Ion	Ratio	Lower	Upper
166	100		
164	78.7	63.1	94.7
131	76.0	62.9	94.3

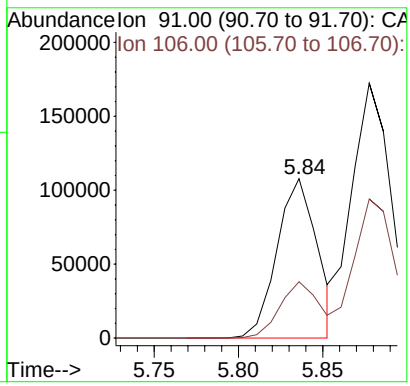


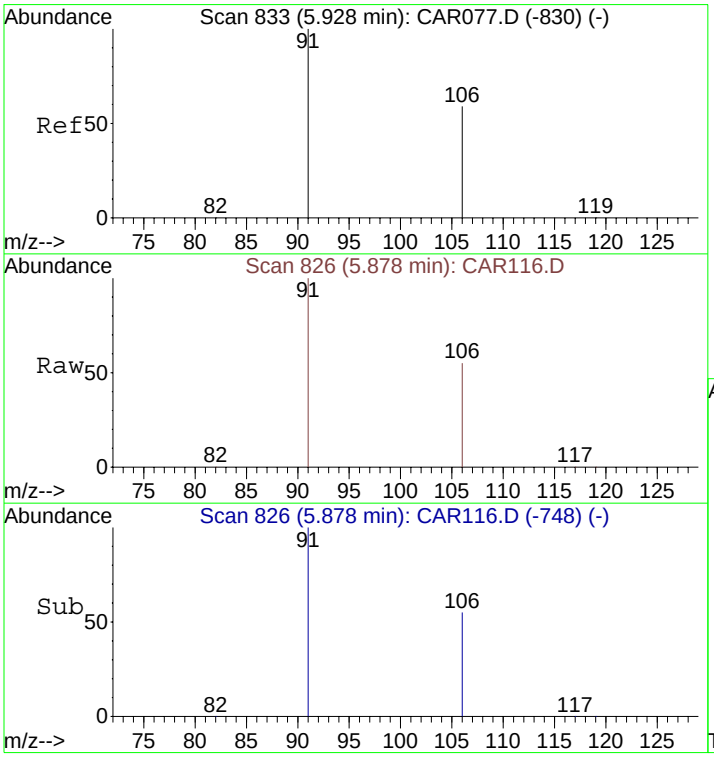


#15
Ethylbenzene
Concen: 368.68 ppbv
RT: 5.84 min Scan# 821
Delta R.T. 0.01 min
Lab File: CAR116.D
Acq: 17 Sep 2008 18:46

Tgt Ion: 91 Resp: 178392

Ion	Ratio	Lower	Upper
91	100		
106	34.6	26.3	39.5

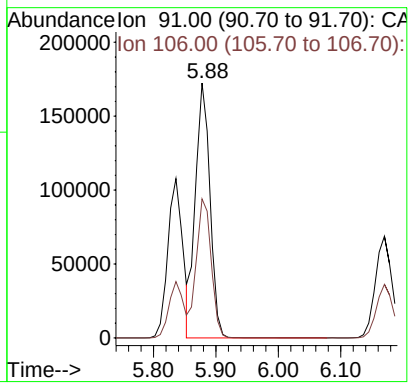


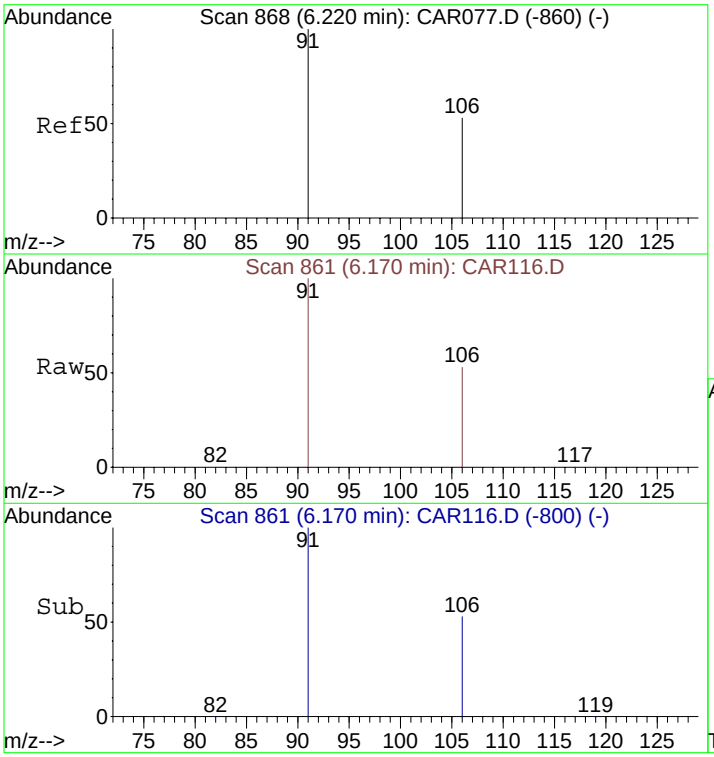


#16
m&p-Xylenes
Concen: 804.71 ppbv
RT: 5.88 min Scan# 826
Delta R.T. 0.00 min
Lab File: CAR116.D
Acq: 17 Sep 2008 18:46

Tgt Ion: 91 Resp: 279125

Ion	Ratio	Lower	Upper
91	100		
106	56.2	41.8	62.8

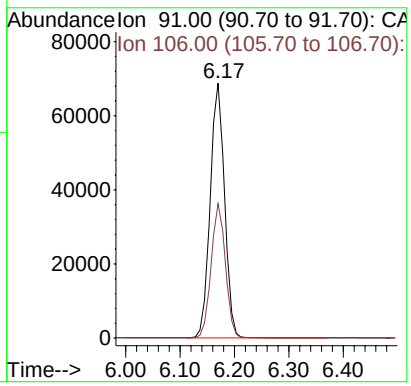




#17
o-Xylene
Concen: 328.51 ppbv
RT: 6.17 min Scan# 861
Delta R.T. 0.01 min
Lab File: CAR116.D
Acq: 17 Sep 2008 18:46

Tgt Ion: 91 Resp: 125961

Ion	Ratio	Lower	Upper
91	100		
106	52.3	38.9	58.3



APPENDIX D

Quantitation Reports

Carter Carburetor

GC/MS Analytical Report

November 2008

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR016.D Vial: 1
Acq On : 16 Sep 2008 7:49 Operator: dlm
Sample : 20080916-MB/Method Blank Inst : Instrumen
Misc : 5 ml IS Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 04:58:54 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 04:27:11 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.15	49	2043	10.00 ppbv	-0.03
9) 1,4-Difluorobenzene	4.49	114	6933	10.00 ppbv	-0.04
12) Chlorobenzene-d5	5.84	117	6724	10.00 ppbv	-0.08

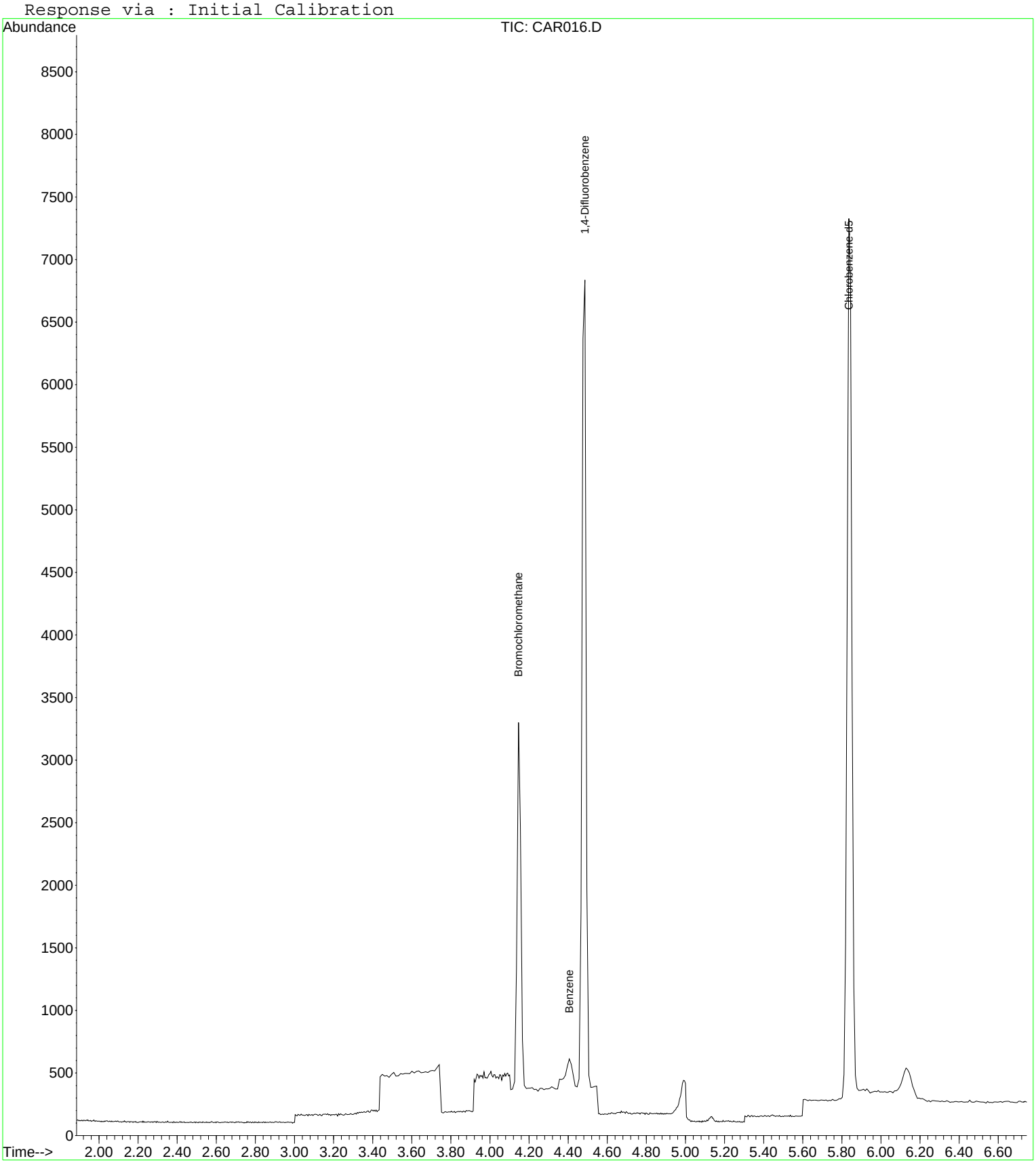
Target Compounds					Qvalue
10) Benzene	4.41	78	284m	0.67 ppbv	

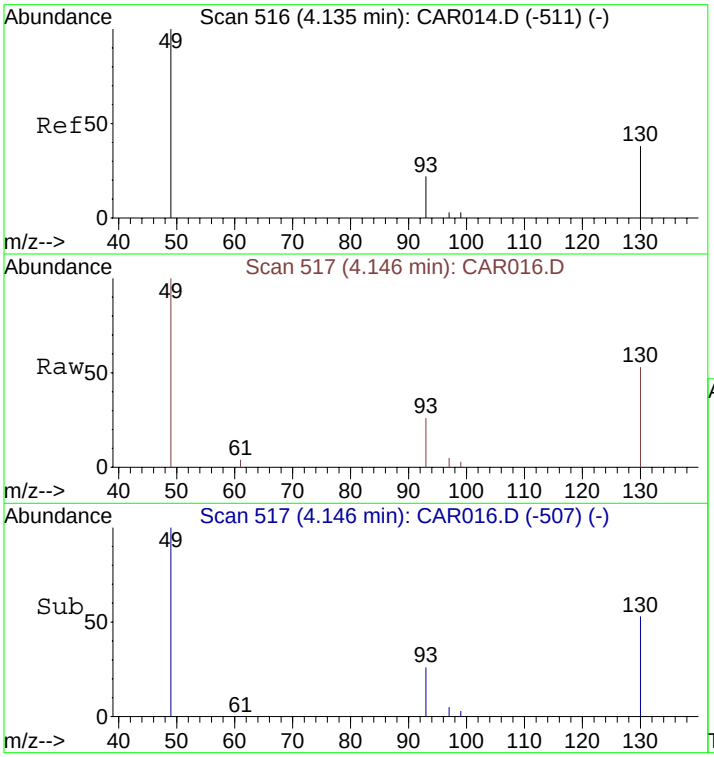
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR016.D Vial: 1
Acq On : 16 Sep 2008 7:49 Operator: dlm
Sample : 20080916-MB/Method Blank Inst : Instrumen
Misc : 5 ml IS Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 8:00 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Mon Sep 29 09:49:45 2008
Response via : Initial Calibration

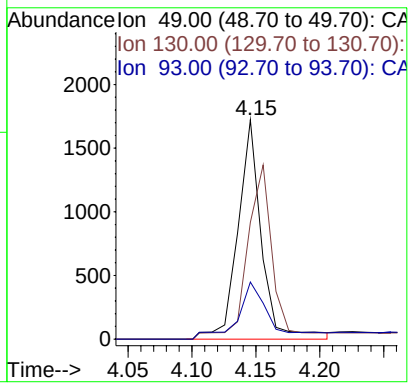


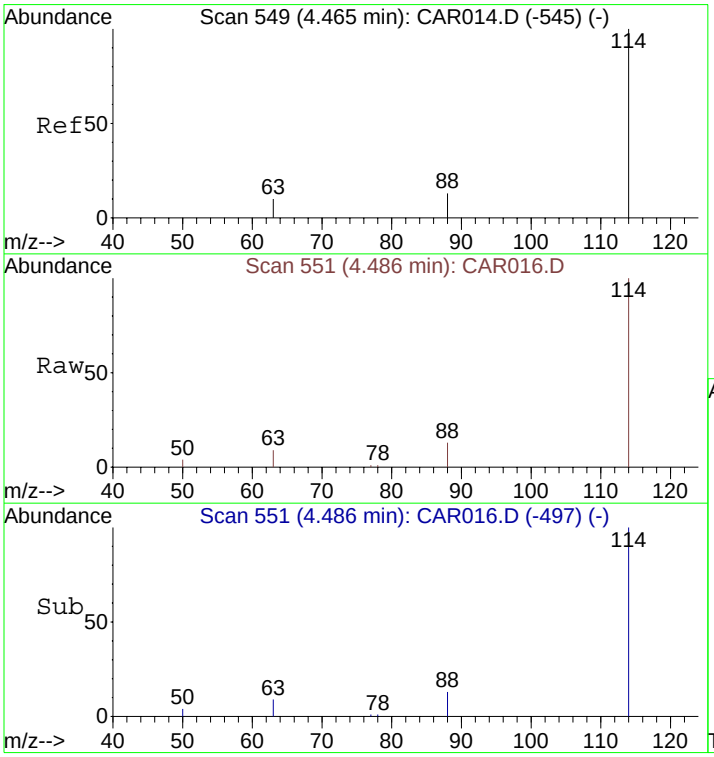


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.15 min Scan# 517
Delta R.T. -0.03 min
Lab File: CAR016.D
Acq: 16 Sep 2008 7:49

Tgt Ion: 49 Resp: 2043

Ion	Ratio	Lower	Upper
49	100		
130	83.2	65.1	97.7
93	35.5	33.8	50.6

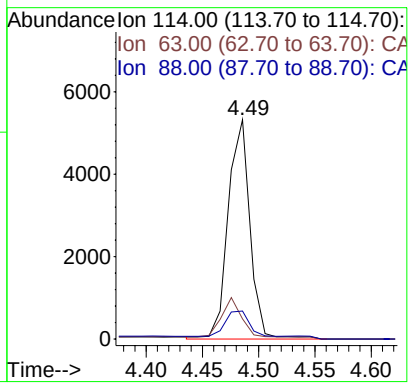


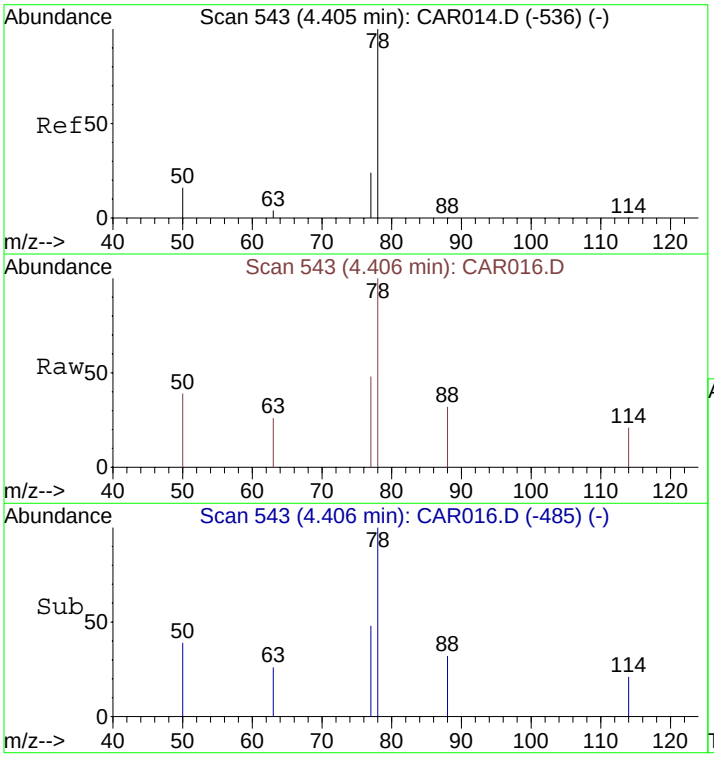


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.49 min Scan# 551
Delta R.T. -0.04 min
Lab File: CAR016.D
Acq: 16 Sep 2008 7:49

Tgt Ion:114 Resp: 6933

Ion	Ratio	Lower	Upper
114	100		
63	17.3	15.8	23.8
88	13.6	12.2	18.2

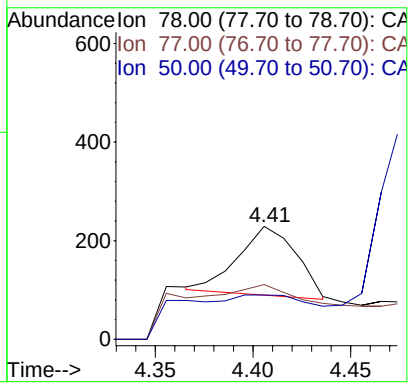


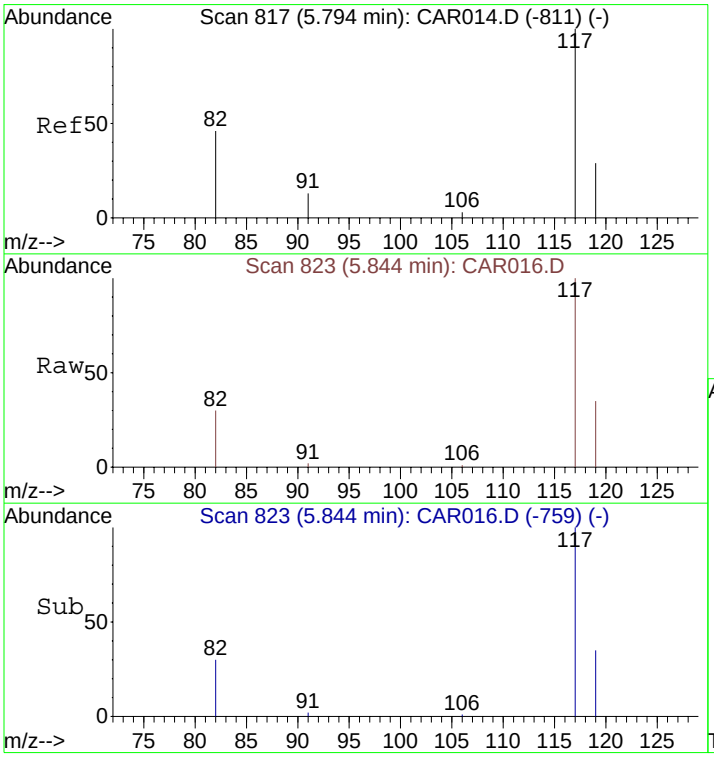


#10
Benzene
Concen: 0.67 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. -0.06 min
Lab File: CAR016.D
Acq: 16 Sep 2008 7:49

Tgt Ion: 78 Resp: 284

Ion	Ratio	Lower	Upper
78	100		
77	201.1	18.6	28.0#
50	152.8	16.2	24.4#

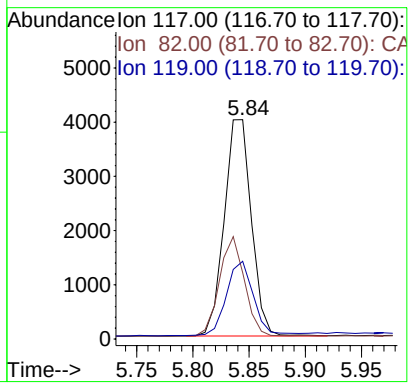




#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.84 min Scan# 823
Delta R.T. -0.08 min
Lab File: CAR016.D
Acq: 16 Sep 2008 7:49

Tgt Ion:117 Resp: 6724

Ion	Ratio	Lower	Upper
117	100		
82	42.0	38.3	57.5
119	34.2	26.0	39.0



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR017.D Vial: 1
Acq On : 16 Sep 2008 8:06 Operator:
Sample : 20080916-LB/Lot Blank Inst : Instrumen
Misc : 5 ml IS & N2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 05:14:53 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 04:27:11 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	2110	10.00 ppbv	-0.04
9) 1,4-Difluorobenzene	4.47	114	7453	10.00 ppbv	-0.06
12) Chlorobenzene-d5	5.81	117	7060	10.00 ppbv	-0.12

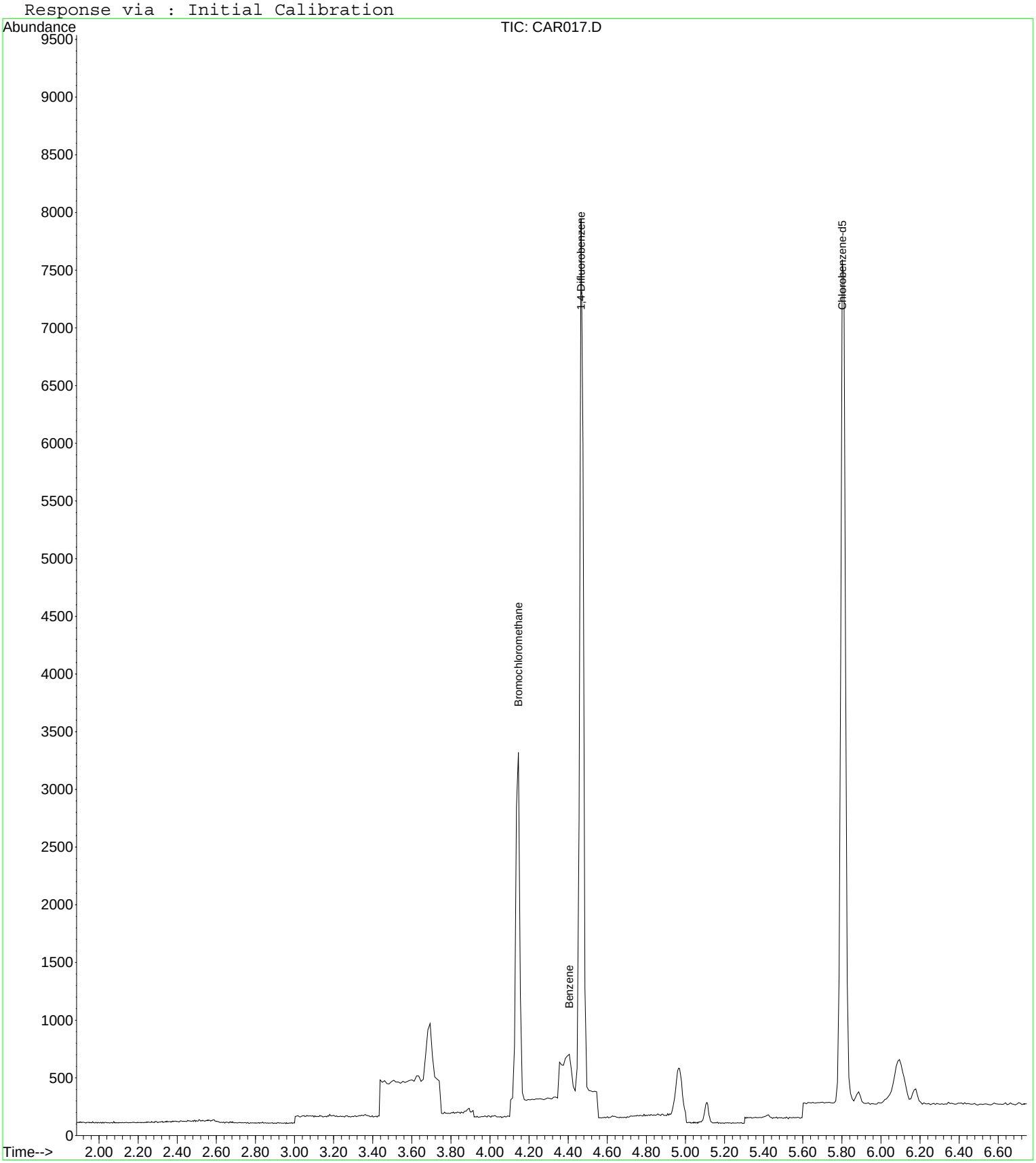
Target Compounds					Qvalue
10) Benzene	4.41	78	420m	0.93 ppbv	

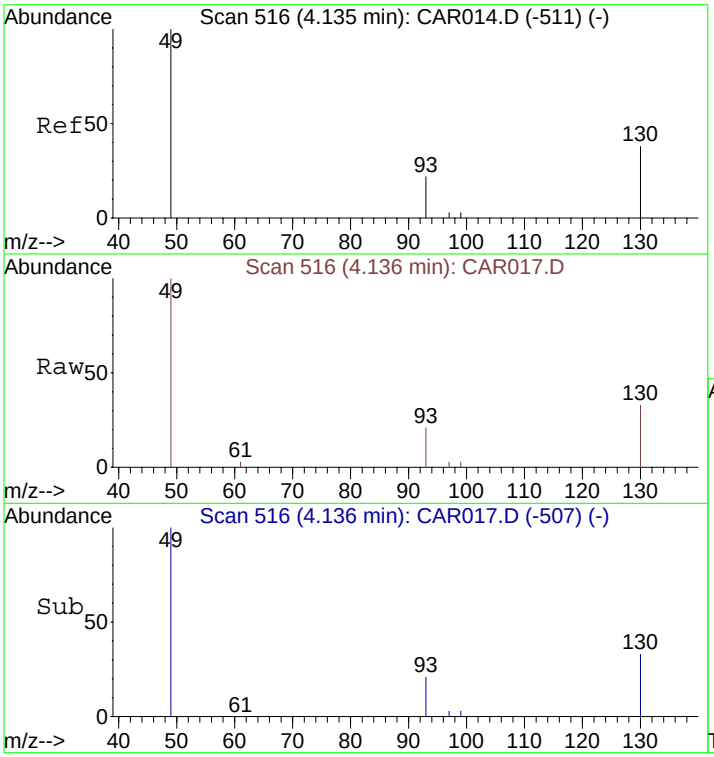
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR017.D Vial: 1
Acq On : 16 Sep 2008 8:06 Operator:
Sample : 20080916-LB/Lot Blank Inst : Instrumen
Misc : 5 ml IS & N2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 7:40 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Mon Sep 29 09:49:45 2008
Response via : Initial Calibration

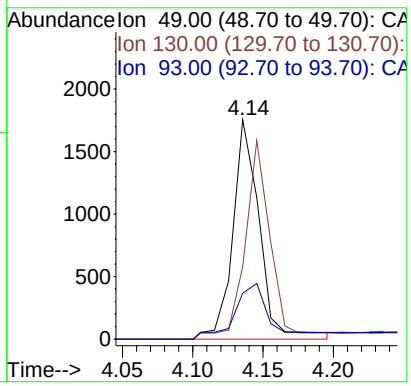


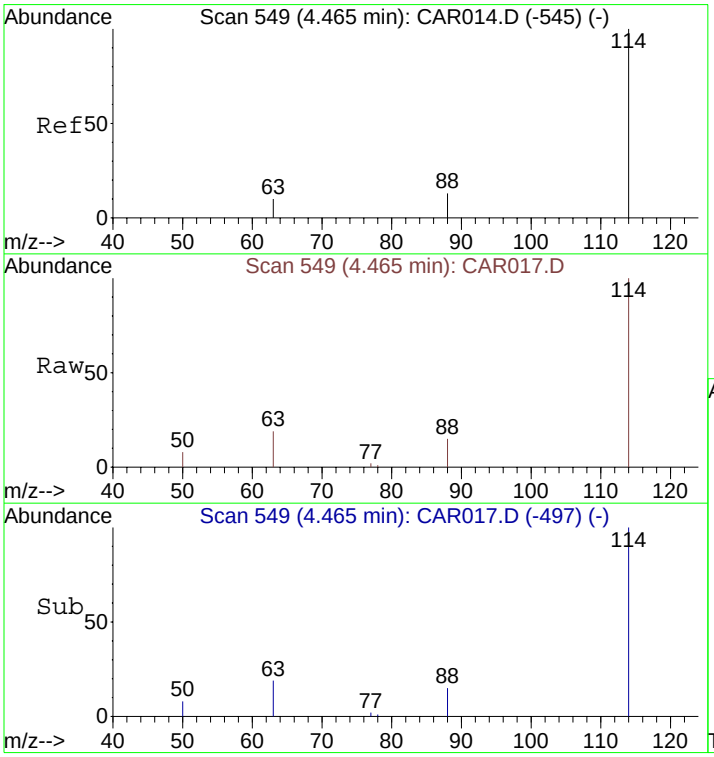


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. -0.04 min
Lab File: CAR017.D
Acq: 16 Sep 2008 8:06

Tgt Ion: 49 Resp: 2110

Ion	Ratio	Lower	Upper
49	100		
130	88.9	65.1	97.7
93	38.1	33.8	50.6

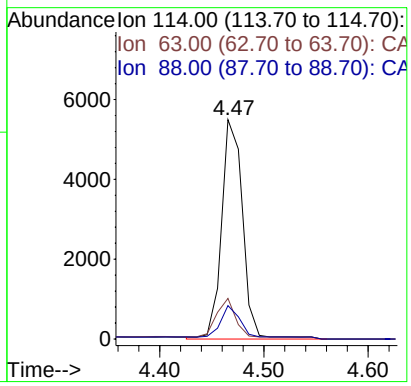


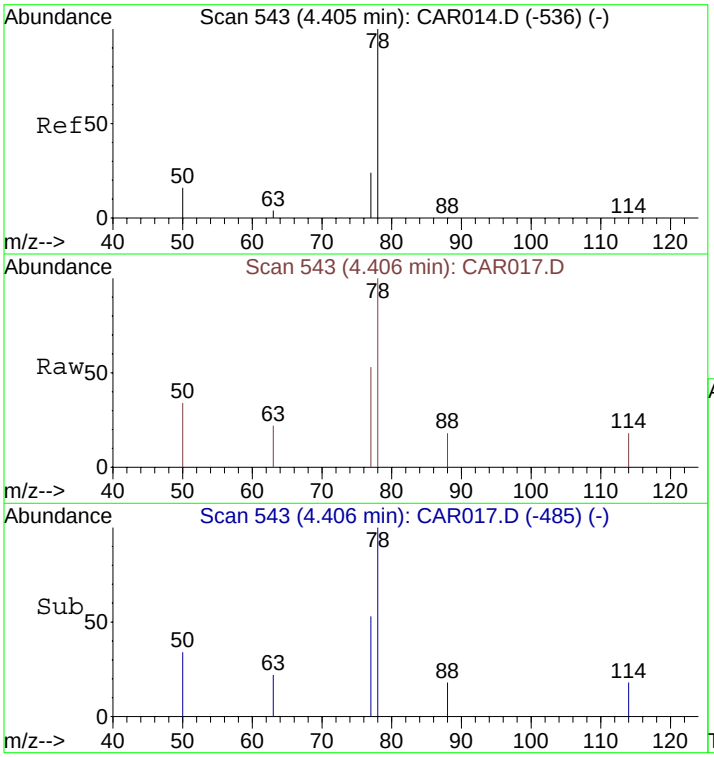


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. -0.06 min
Lab File: CAR017.D
Acq: 16 Sep 2008 8:06

Tgt Ion:114 Resp: 7453

Ion	Ratio	Lower	Upper
114	100		
63	20.5	15.8	23.8
88	16.7	12.2	18.2

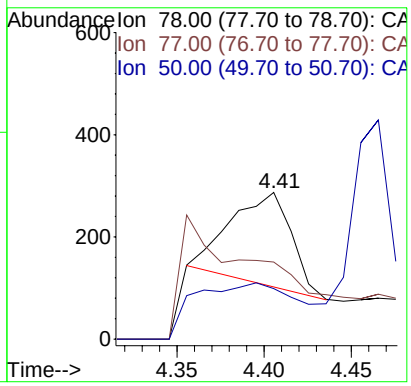


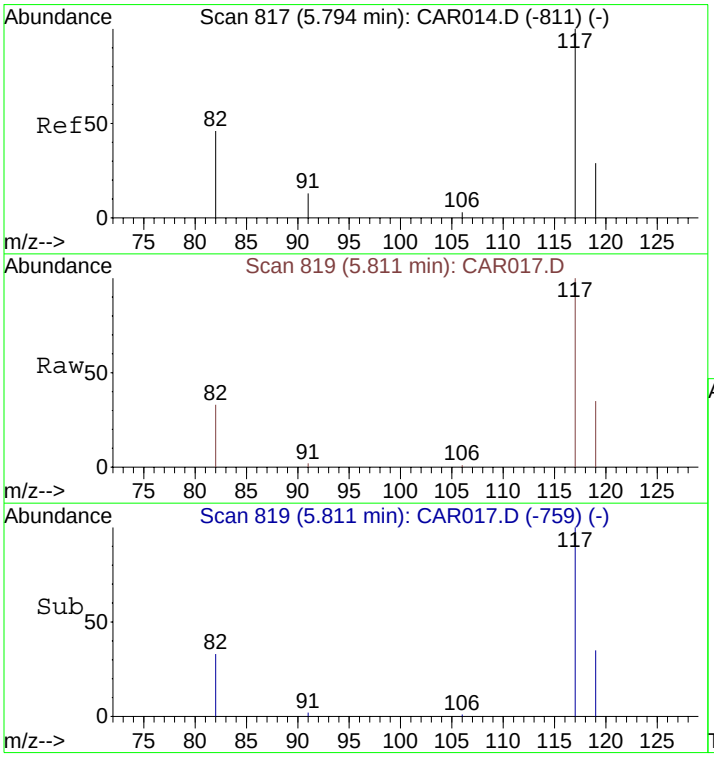


#10
Benzene
Concen: 0.93 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. -0.06 min
Lab File: CAR017.D
Acq: 16 Sep 2008 8:06

Tgt Ion: 78 Resp: 420

Ion	Ratio	Lower	Upper
78	100		
77	214.5	18.6	28.0#
50	104.8	16.2	24.4#

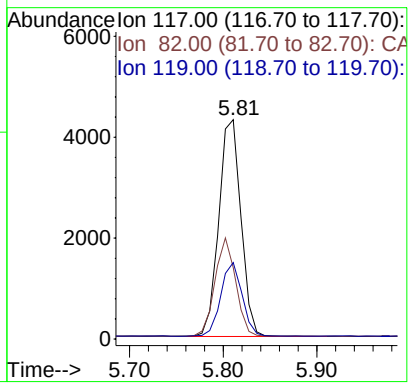




#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.81 min Scan# 819
Delta R.T. -0.12 min
Lab File: CAR017.D
Acq: 16 Sep 2008 8:06

Tgt Ion:117 Resp: 7060

Ion	Ratio	Lower	Upper
117	100		
82	42.5	38.3	57.5
119	32.6	26.0	39.0



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR019.D Vial: 1
Acq On : 16 Sep 2008 9:35 Operator: dlm
Sample : 51350\F4-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 06:44:02 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 06:10:49 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	2003	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	7179	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.80	117	7196	10.00 ppbv	0.00

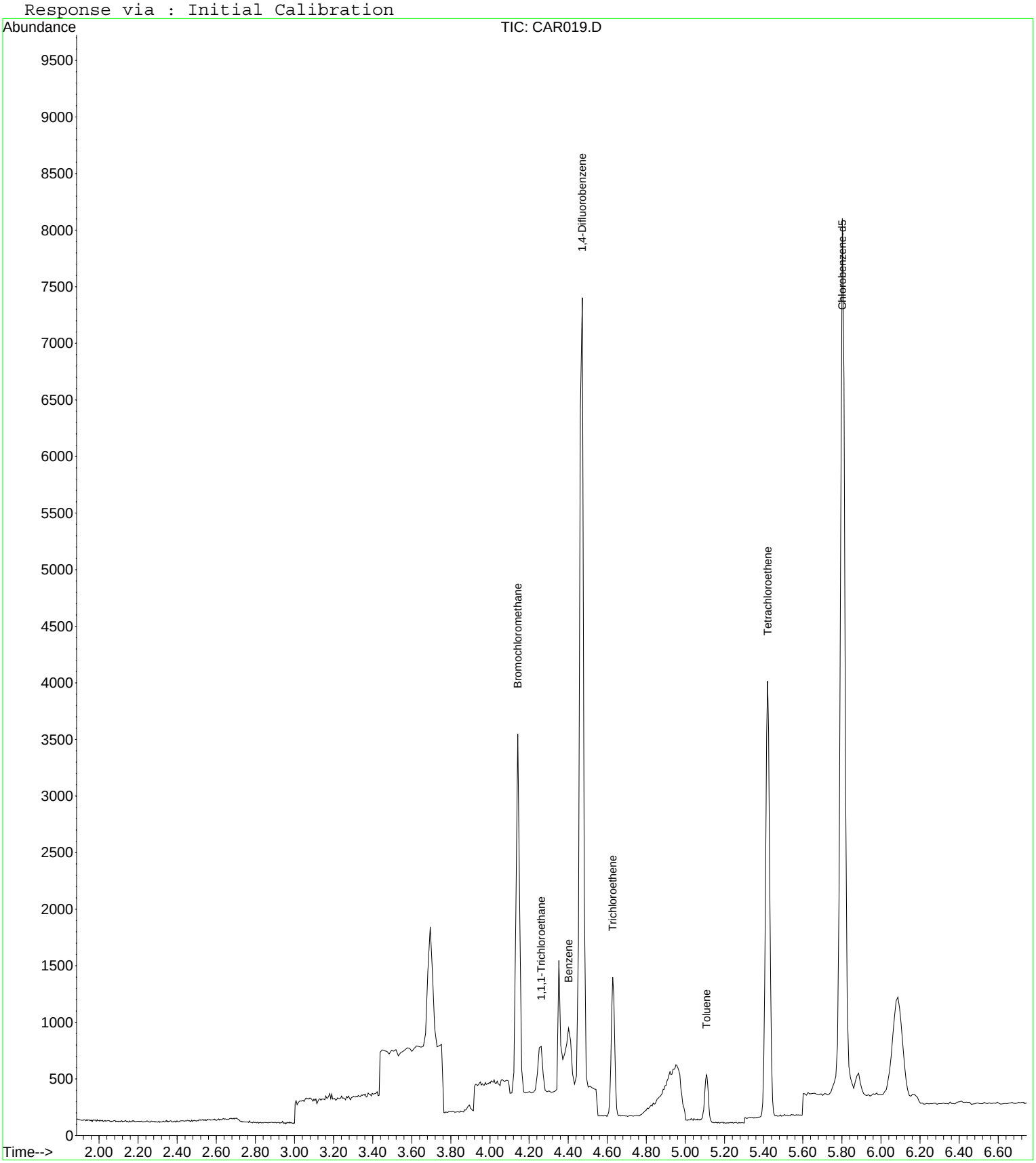
Target Compounds					Qvalue
8) 1,1,1-Trichloroethane	4.26	97	324	1.30 ppbv #	76
10) Benzene	4.40	78	493m	1.13 ppbv	
11) Trichloroethene	4.63	130	547m	2.57 ppbv	
13) Toluene	5.11	91	365	0.84 ppbv	100
14) Tetrachloroethene	5.42	166	2302	8.76 ppbv	94

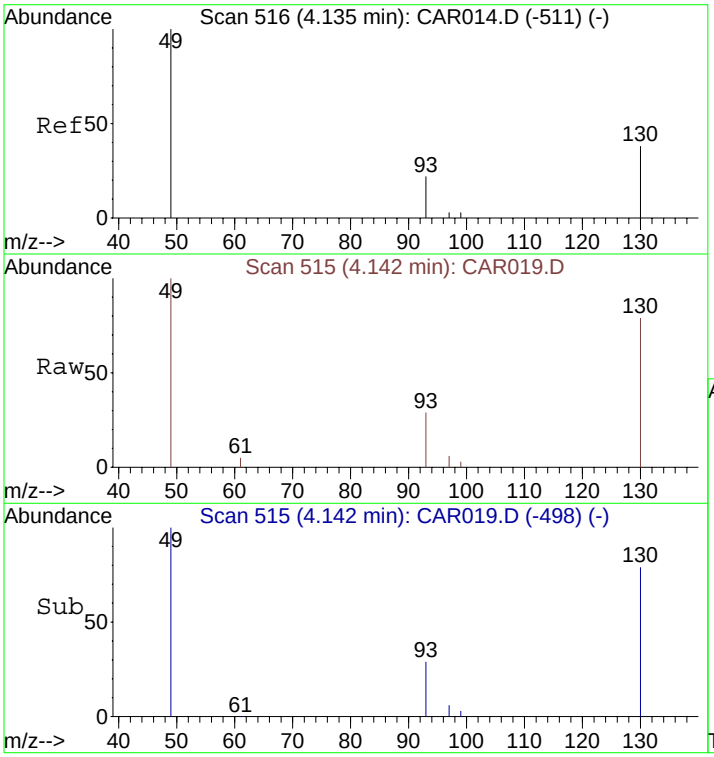
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR019.D Vial: 1
Acq On : 16 Sep 2008 9:35 Operator: dlm
Sample : 51350\F4-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:11 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Thu Oct 02 13:10:18 2008
Response via : Initial Calibration

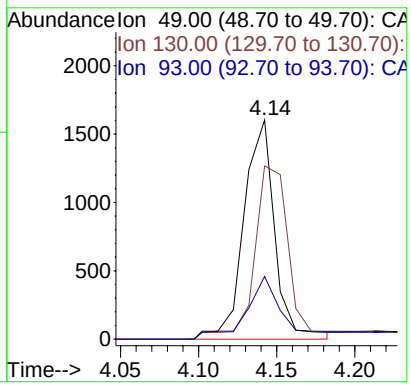


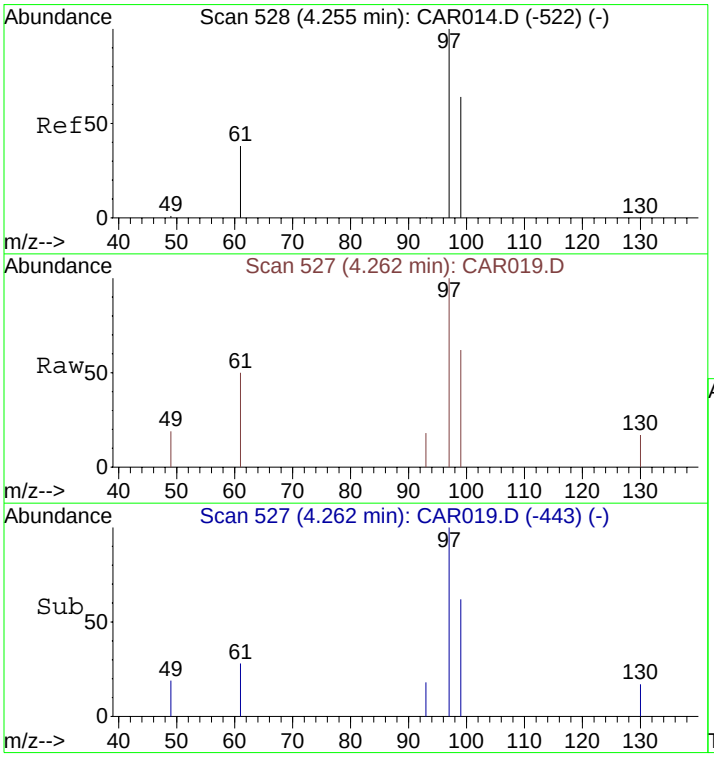


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 515
Delta R.T. 0.01 min
Lab File: CAR019.D
Acq: 16 Sep 2008 9:35

Tgt Ion: 49 Resp: 2003

Ion	Ratio	Lower	Upper
49	100		
130	86.4	65.1	97.7
93	33.4	33.8	50.6#

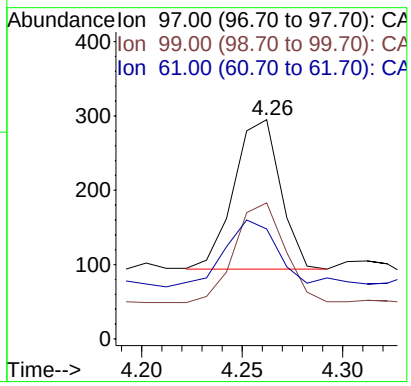


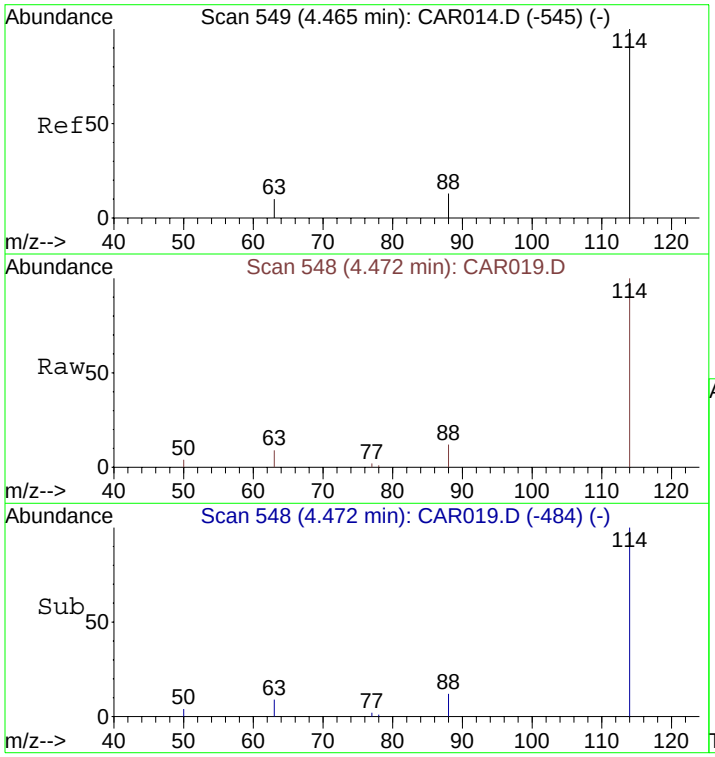


#8
1,1,1-Trichloroethane
Concen: 1.30 ppbv
RT: 4.26 min Scan# 527
Delta R.T. 0.01 min
Lab File: CAR019.D
Acq: 16 Sep 2008 9:35

Tgt Ion: 97 Resp: 324

Ion	Ratio	Lower	Upper
97	100		
99	84.3	51.8	77.8#
61	54.6	32.1	48.1#

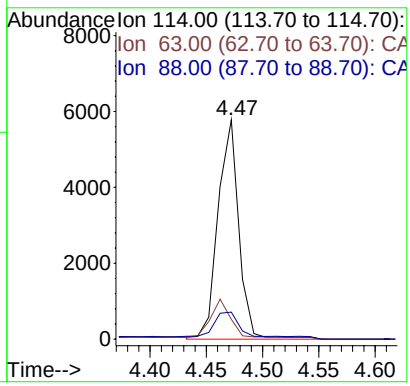


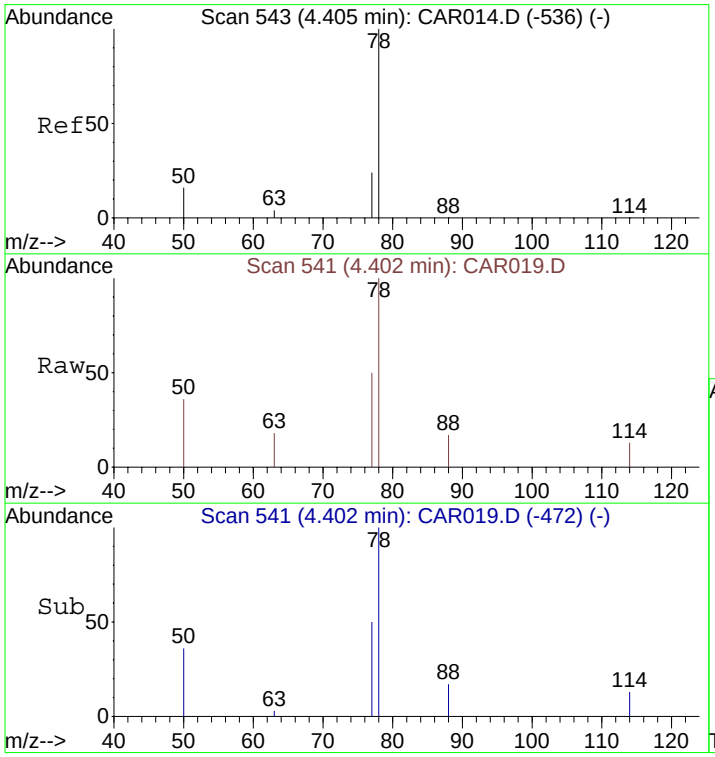


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 548
Delta R.T. 0.01 min
Lab File: CAR019.D
Acq: 16 Sep 2008 9:35

Tgt Ion:114 Resp: 7179

Ion	Ratio	Lower	Upper
114	100		
63	20.5	15.8	23.8
88	14.0	12.2	18.2

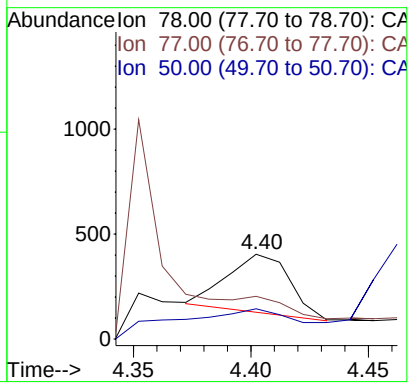


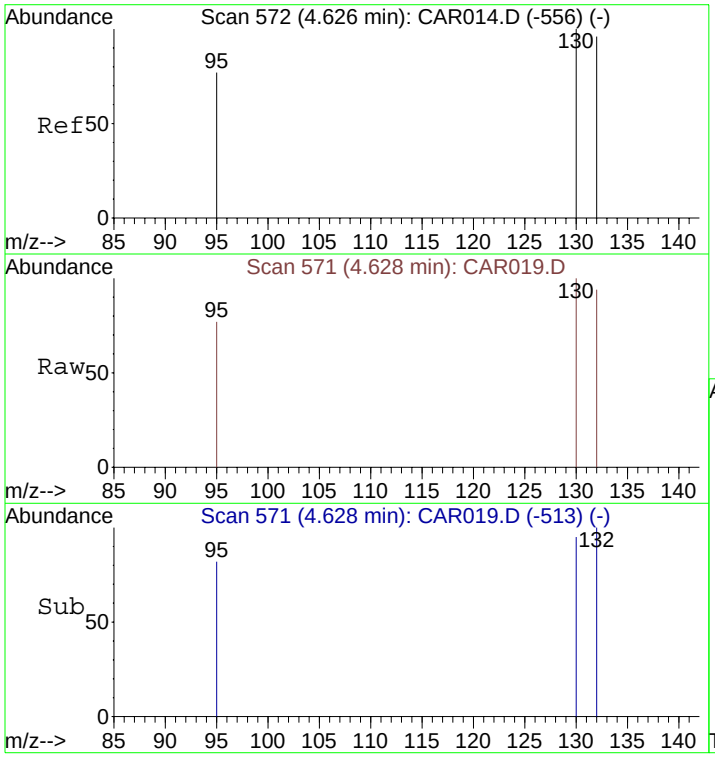


#10
Benzene
Concen: 1.13 ppbv m
RT: 4.40 min Scan# 541
Delta R.T. -0.00 min
Lab File: CAR019.D
Acq: 16 Sep 2008 9:35

Tgt Ion: 78 Resp: 493

Ion	Ratio	Lower	Upper
78	100		
77	11.8	18.6	28.0#
50	25.8	16.2	24.4#

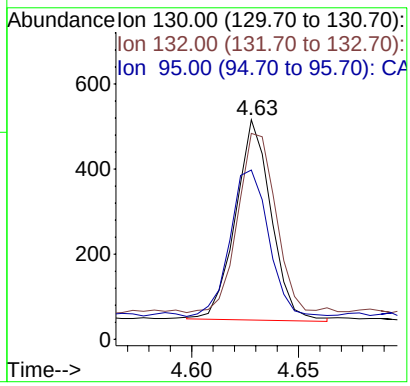


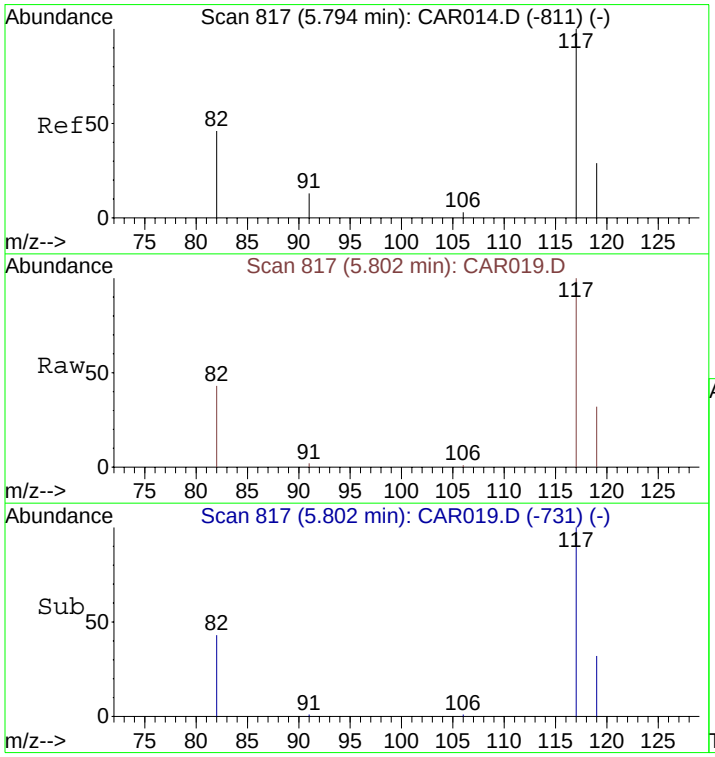


#11
Trichloroethene
Concen: 2.57 ppbv m
RT: 4.63 min Scan# 571
Delta R.T. 0.00 min
Lab File: CAR019.D
Acq: 16 Sep 2008 9:35

Tgt Ion:130 Resp: 547

Ion	Ratio	Lower	Upper
130	100		
132	107.1	73.8	110.6
95	89.4	72.5	108.7

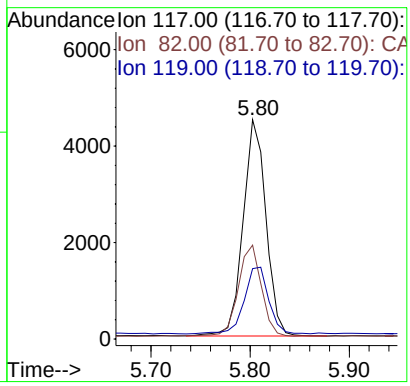


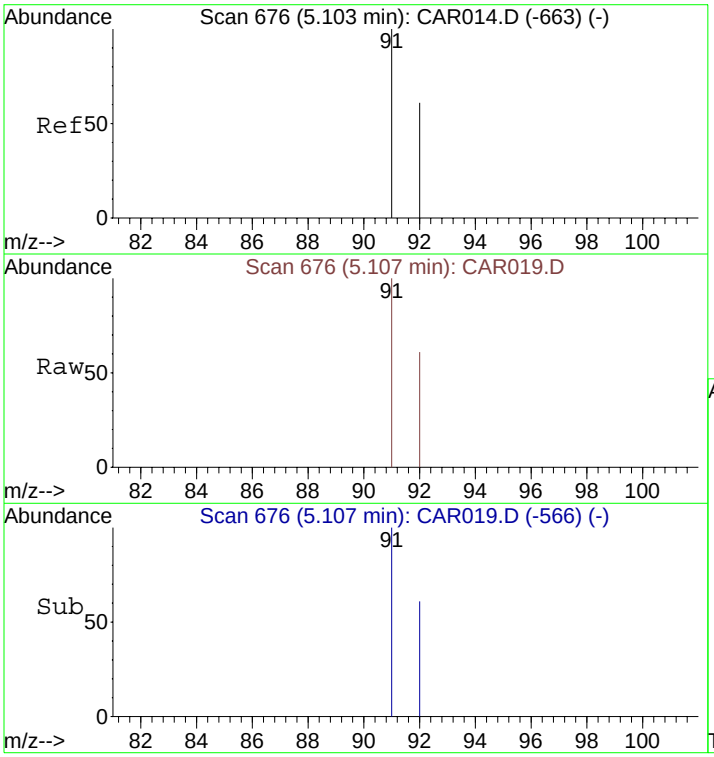


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.80 min Scan# 817
Delta R.T. 0.01 min
Lab File: CAR019.D
Acq: 16 Sep 2008 9:35

Tgt Ion:117 Resp: 7196

Ion	Ratio	Lower	Upper
117	100		
82	42.0	38.3	57.5
119	32.7	26.0	39.0

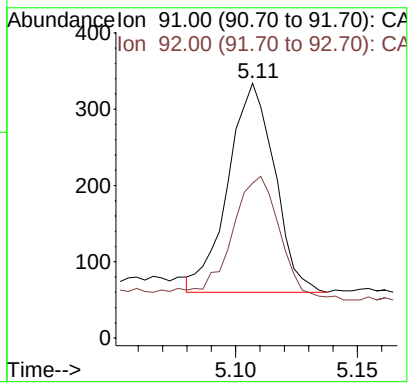


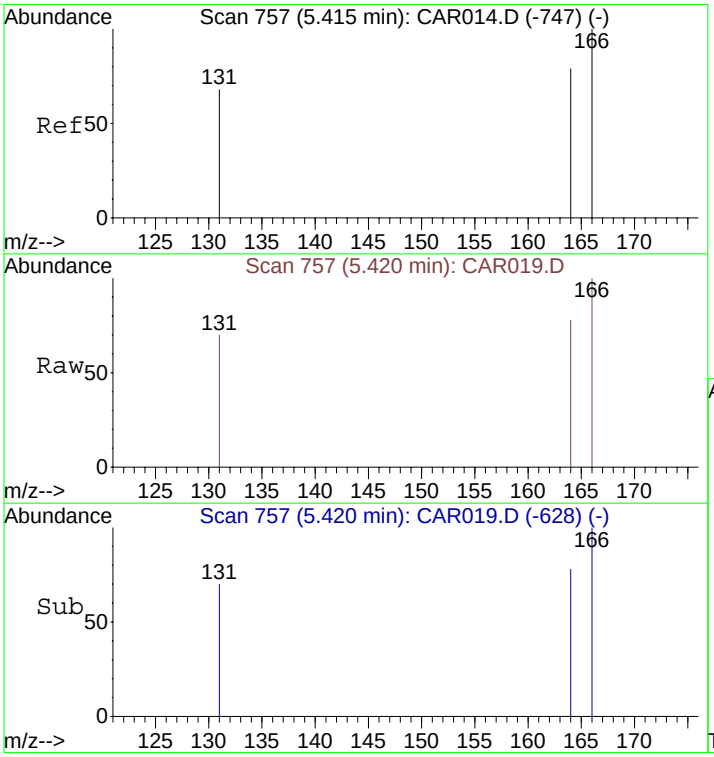


#13
Toluene
Concen: 0.84 ppbv
RT: 5.11 min Scan# 676
Delta R.T. 0.00 min
Lab File: CAR019.D
Acq: 16 Sep 2008 9:35

Tgt Ion: 91 Resp: 365

Ion	Ratio	Lower	Upper
91	100		
92	60.0	48.2	72.2

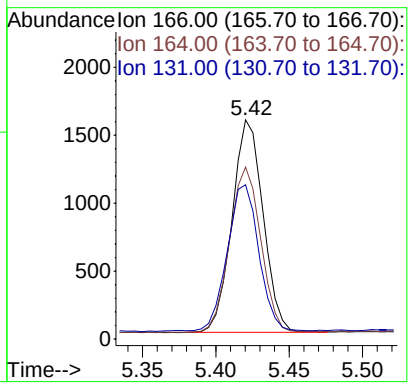




#14
Tetrachloroethene
Concen: 8.76 ppbv
RT: 5.42 min Scan# 757
Delta R.T. 0.01 min
Lab File: CAR019.D
Acq: 16 Sep 2008 9:35

Tgt Ion:166 Resp: 2302

Ion	Ratio	Lower	Upper
166	100		
164	78.1	63.1	94.7
131	69.6	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR020.D Vial: 1
Acq On : 16 Sep 2008 9:46 Operator: dlm
Sample : 51352\H4-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 06:55:56 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 06:10:49 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.13	49	2043	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.46	114	7309	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.80	117	6805	10.00 ppbv	0.00

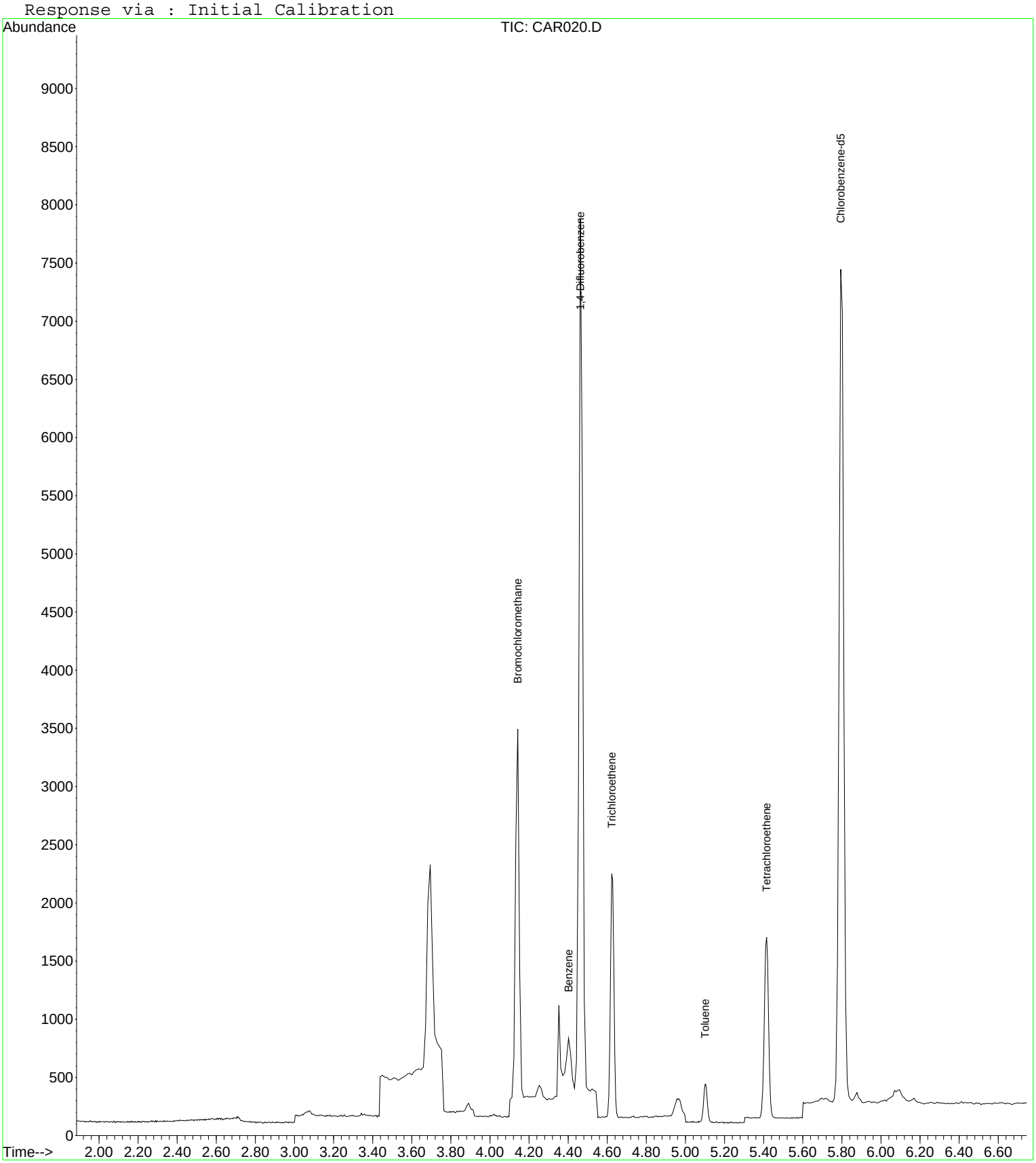
Target Compounds					Qvalue
10) Benzene	4.40	78	445m	1.00 ppbv	
11) Trichloroethene	4.62	130	941m	4.35 ppbv	
13) Toluene	5.10	91	273	0.66 ppbv	96
14) Tetrachloroethene	5.42	166	953	3.83 ppbv	96

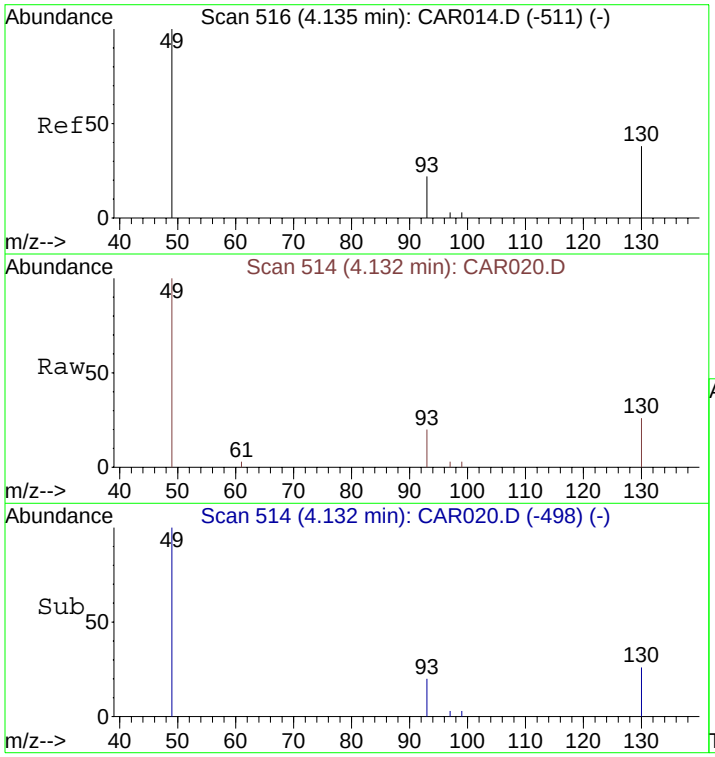
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR020.D Vial: 1
Acq On : 16 Sep 2008 9:46 Operator: dlm
Sample : 51352\H4-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 10:32 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 10:37:21 2008
Response via : Initial Calibration

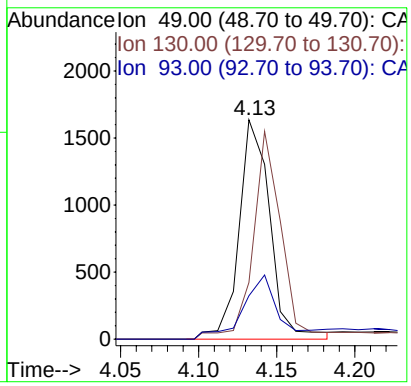


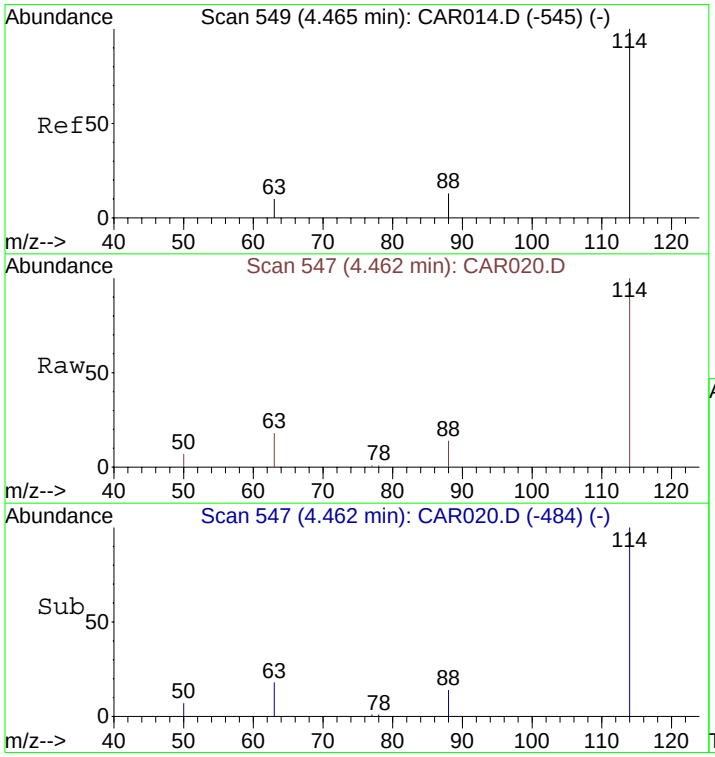


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.13 min Scan# 514
Delta R.T. -0.00 min
Lab File: CAR020.D
Acq: 16 Sep 2008 9:46

Tgt Ion: 49 Resp: 2043

Ion	Ratio	Lower	Upper
49	100		
130	85.6	65.1	97.7
93	33.2	33.8	50.6#

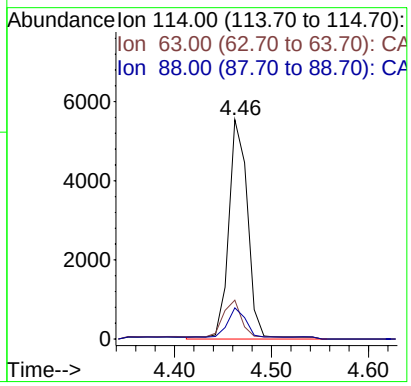


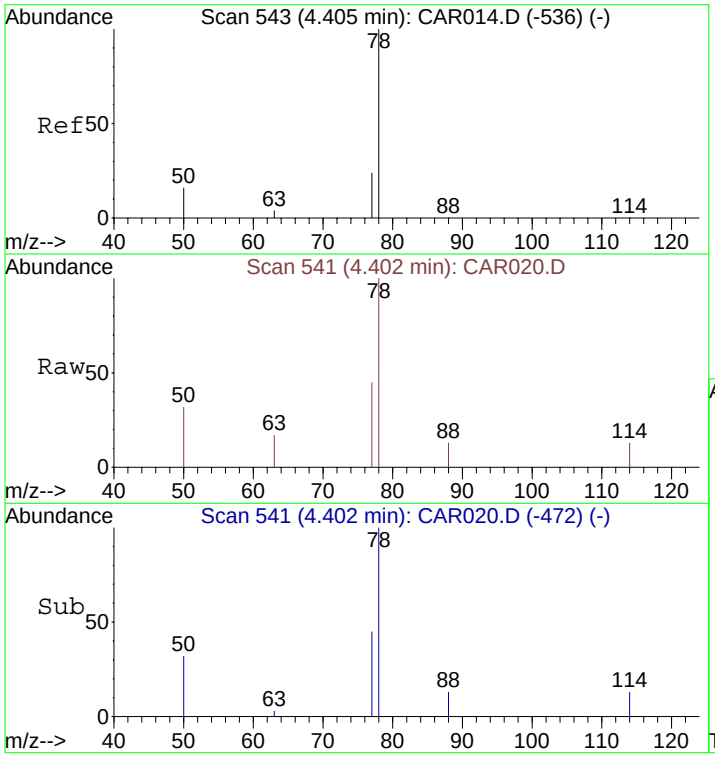


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.46 min Scan# 547
Delta R.T. -0.00 min
Lab File: CAR020.D
Acq: 16 Sep 2008 9:46

Tgt Ion:114 Resp: 7309

Ion	Ratio	Lower	Upper
114	100		
63	17.2	15.8	23.8
88	13.4	12.2	18.2

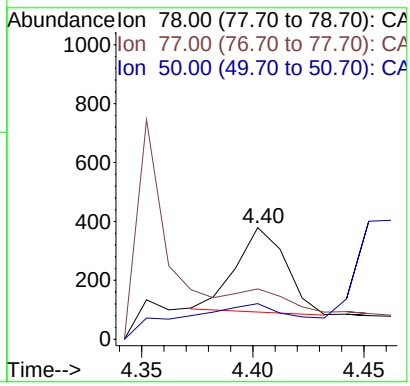


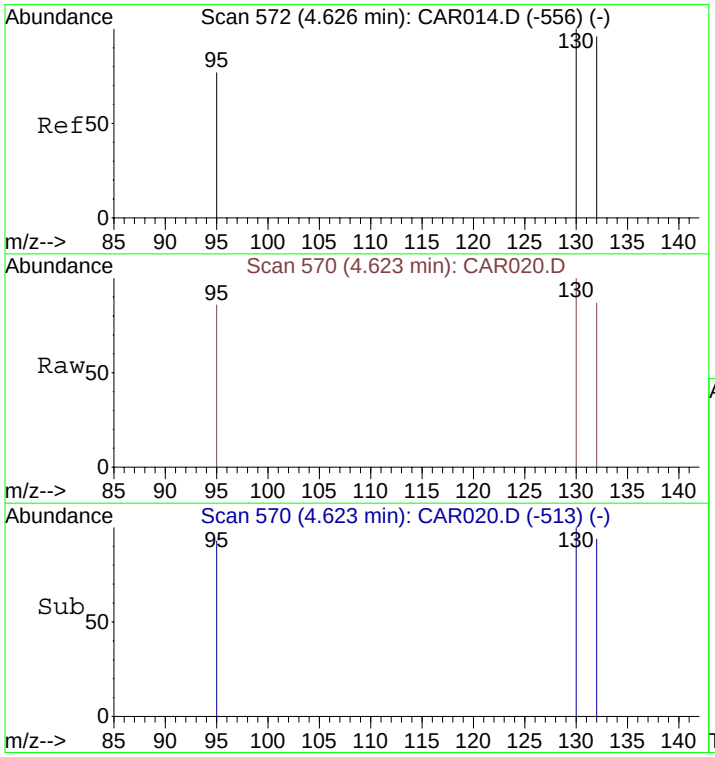


#10
Benzene
Concen: 1.00 ppbv m
RT: 4.40 min Scan# 541
Delta R.T. -0.00 min
Lab File: CAR020.D
Acq: 16 Sep 2008 9:46

Tgt Ion: 78 Resp: 445

Ion	Ratio	Lower	Upper
78	100		
77	14.6	18.6	28.0#
50	12.1	16.2	24.4#

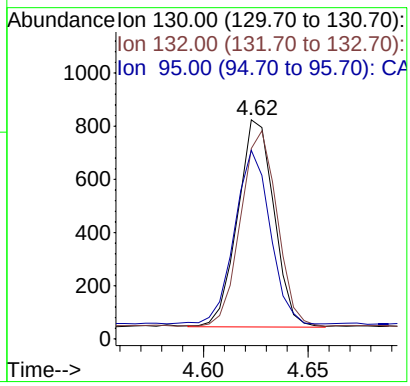


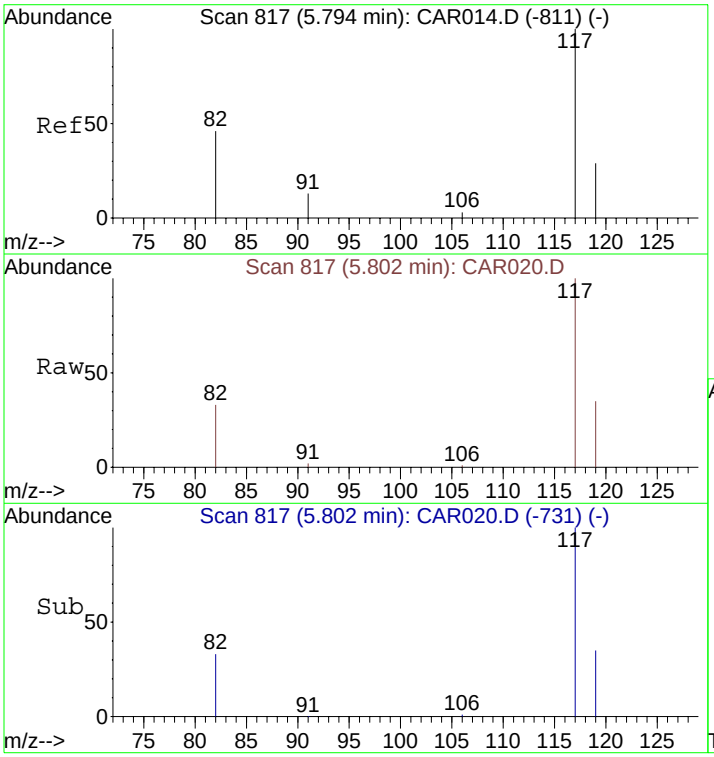


#11
Trichloroethene
Concen: 4.35 ppbv m
RT: 4.62 min Scan# 570
Delta R.T. -0.00 min
Lab File: CAR020.D
Acq: 16 Sep 2008 9:46

Tgt Ion:130 Resp: 941

Ion	Ratio	Lower	Upper
130	100		
132	94.0	73.8	110.6
95	81.2	72.5	108.7

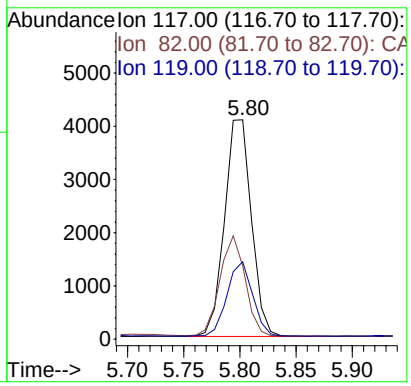


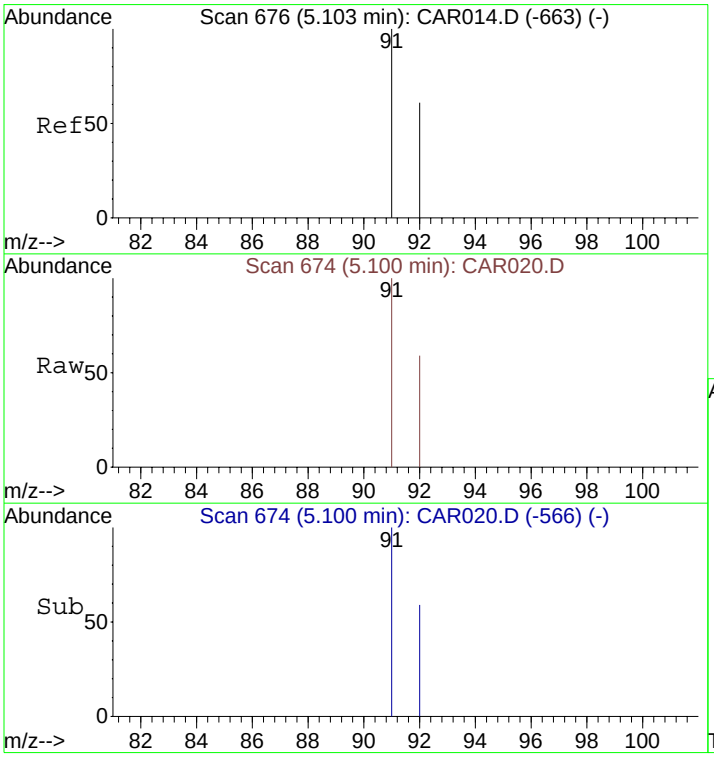


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.80 min Scan# 817
Delta R.T. 0.01 min
Lab File: CAR020.D
Acq: 16 Sep 2008 9:46

Tgt Ion:117 Resp: 6805

Ion	Ratio	Lower	Upper
117	100		
82	44.7	38.3	57.5
119	32.8	26.0	39.0

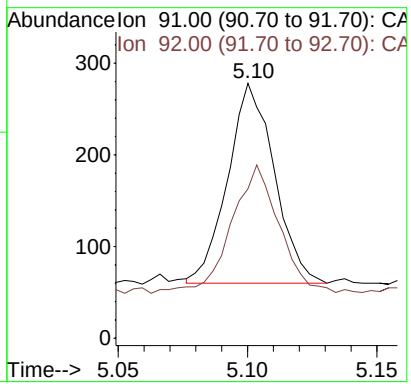


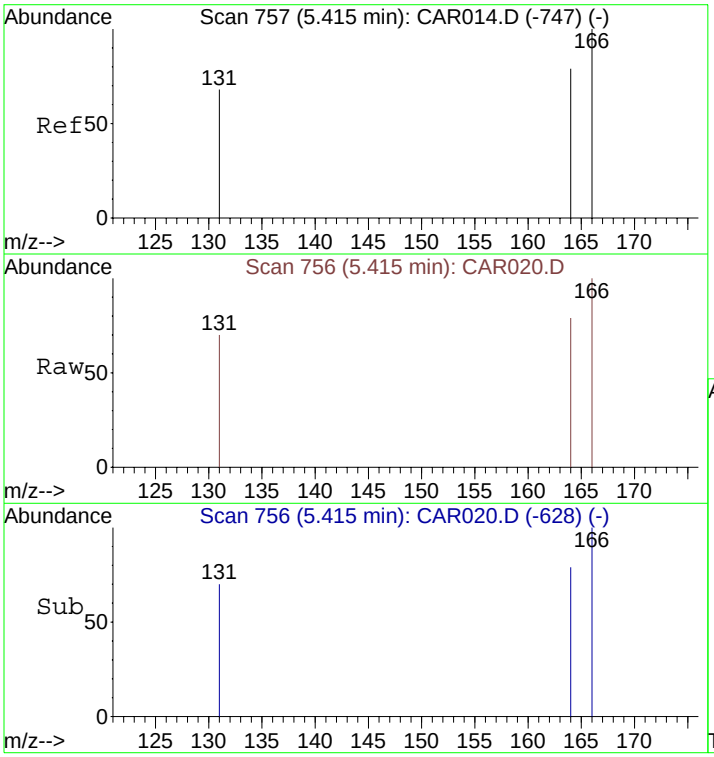


#13
Toluene
Concen: 0.66 ppbv
RT: 5.10 min Scan# 674
Delta R.T. -0.00 min
Lab File: CAR020.D
Acq: 16 Sep 2008 9:46

Tgt Ion: 91 Resp: 273

Ion	Ratio	Lower	Upper
91	100		
92	63.4	48.2	72.2

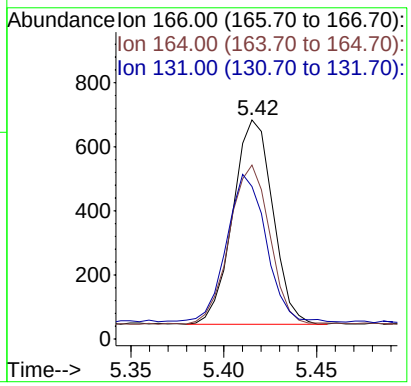




#14
Tetrachloroethene
Concen: 3.83 ppbv
RT: 5.42 min Scan# 756
Delta R.T. 0.00 min
Lab File: CAR020.D
Acq: 16 Sep 2008 9:46

Tgt Ion:166 Resp: 953

Ion	Ratio	Lower	Upper
166	100		
164	78.6	63.1	94.7
131	71.4	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR021.D Vial: 1
Acq On : 16 Sep 2008 9:57 Operator: dlm
Sample : 51351\G4-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 07:05:44 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 06:10:49 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	2033	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	7136	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.83	117	6751	10.00 ppbv	0.03

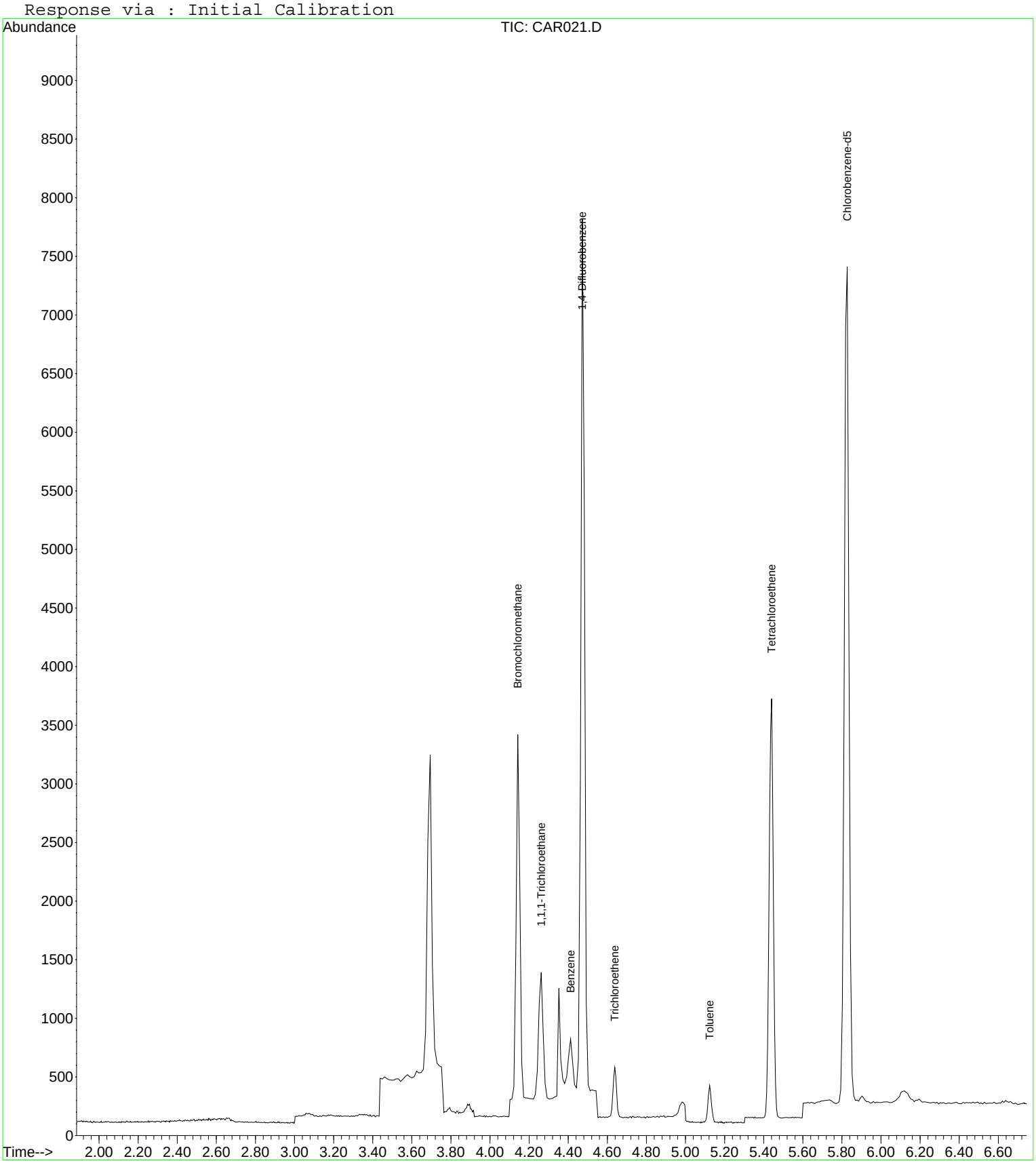
Target Compounds					Qvalue
8) 1,1,1-Trichloroethane	4.26	97	925	3.65 ppbv #	74
10) Benzene	4.41	78	433m	1.00 ppbv	
11) Trichloroethene	4.64	130	192m	0.91 ppbv	
13) Toluene	5.12	91	234	0.57 ppbv	96
14) Tetrachloroethene	5.44	166	2148	8.71 ppbv	94

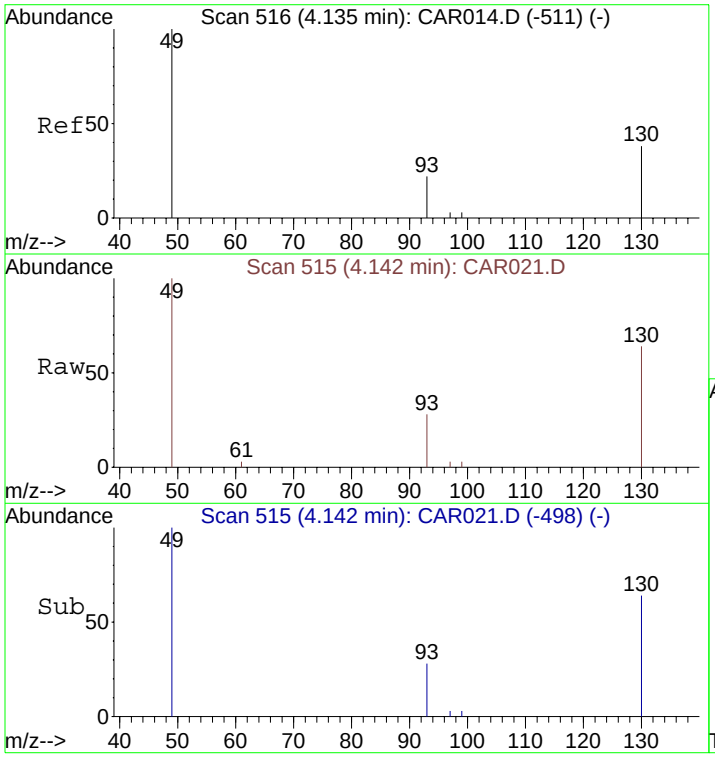
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR021.D Vial: 1
Acq On : 16 Sep 2008 9:57 Operator: dlm
Sample : 51351\G4-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:16 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Thu Oct 02 13:10:18 2008
Response via : Initial Calibration

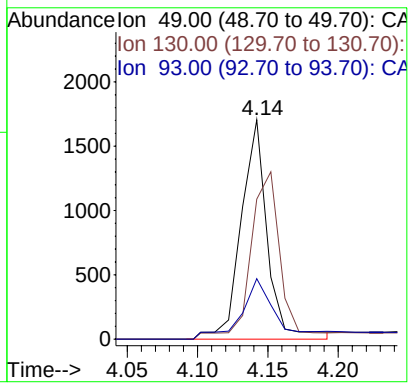


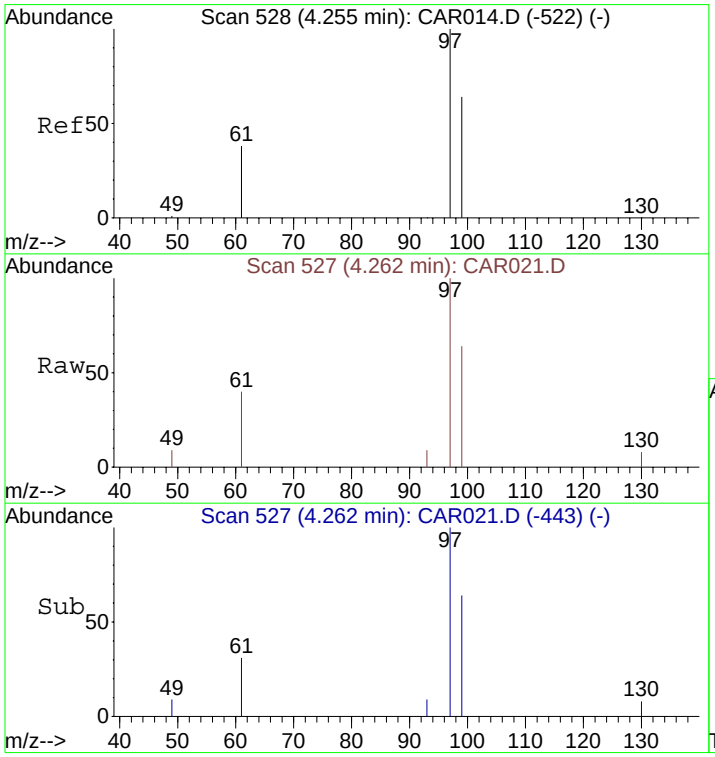


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 515
Delta R.T. 0.01 min
Lab File: CAR021.D
Acq: 16 Sep 2008 9:57

Tgt Ion: 49 Resp: 2033

Ion	Ratio	Lower	Upper
49	100		
130	85.7	65.1	97.7
93	34.7	33.8	50.6

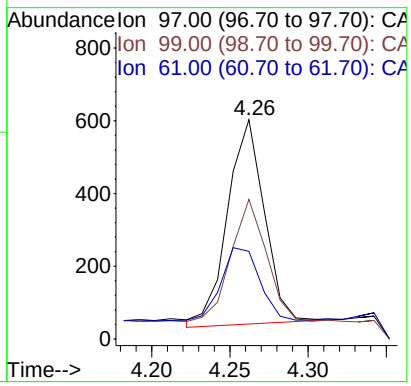


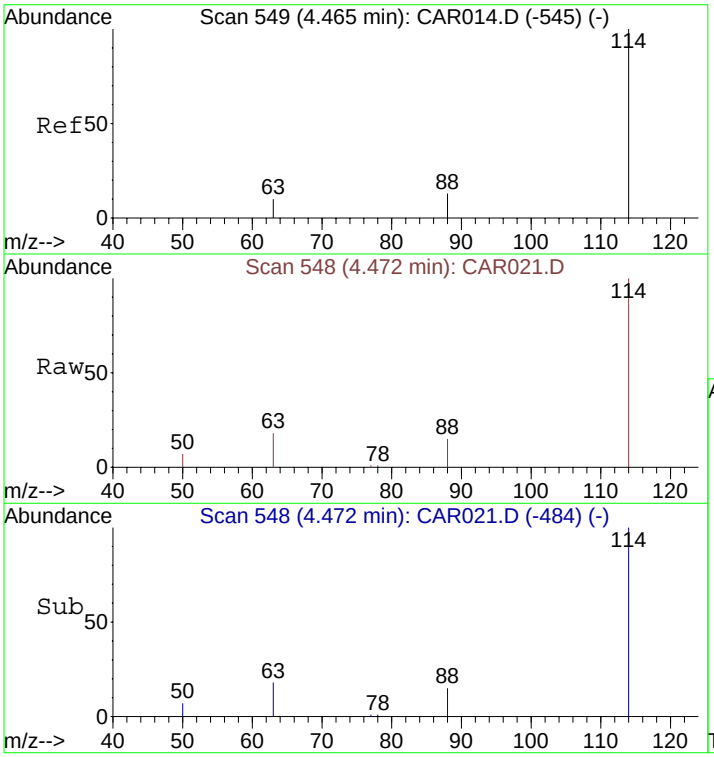


#8
1,1,1-Trichloroethane
Concen: 3.65 ppbv
RT: 4.26 min Scan# 527
Delta R.T. 0.01 min
Lab File: CAR021.D
Acq: 16 Sep 2008 9:57

Tgt Ion: 97 Resp: 925

Ion	Ratio	Lower	Upper
97	100		
99	95.0	51.8	77.8#
61	37.1	32.1	48.1

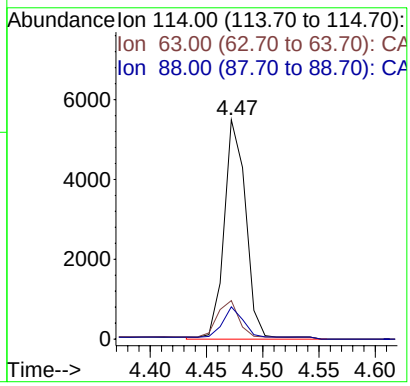


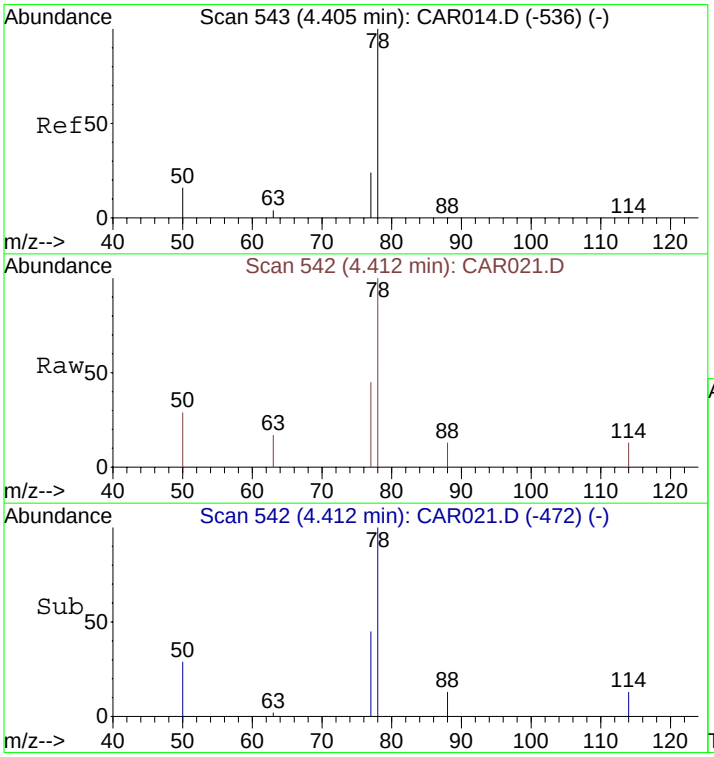


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 548
Delta R.T. 0.01 min
Lab File: CAR021.D
Acq: 16 Sep 2008 9:57

Tgt Ion:114 Resp: 7136

Ion	Ratio	Lower	Upper
114	100		
63	17.5	15.8	23.8
88	16.5	12.2	18.2

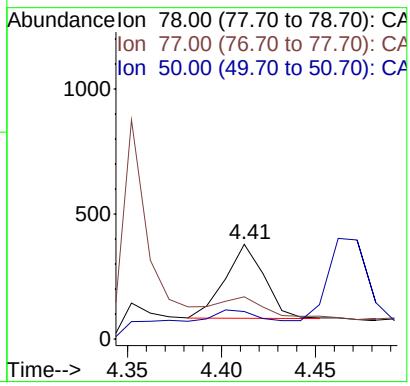


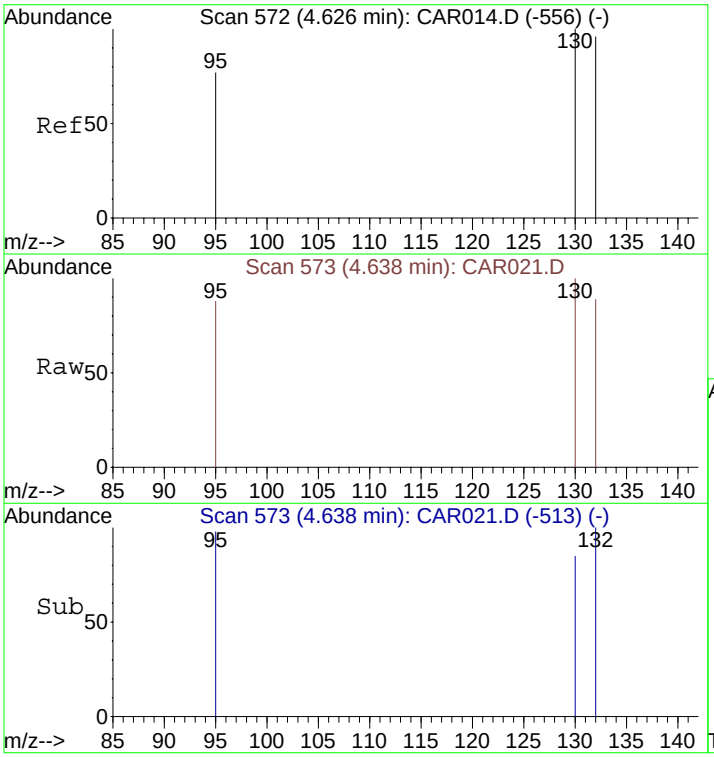


#10
Benzene
Concen: 1.00 ppbv m
RT: 4.41 min Scan# 542
Delta R.T. 0.01 min
Lab File: CAR021.D
Acq: 16 Sep 2008 9:57

Tgt Ion: 78 Resp: 433

Ion	Ratio	Lower	Upper
78	100		
77	16.9	18.6	28.0#
50	13.6	16.2	24.4#

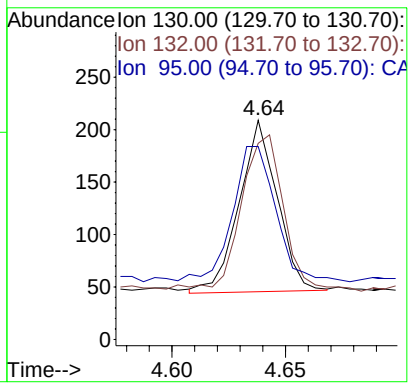


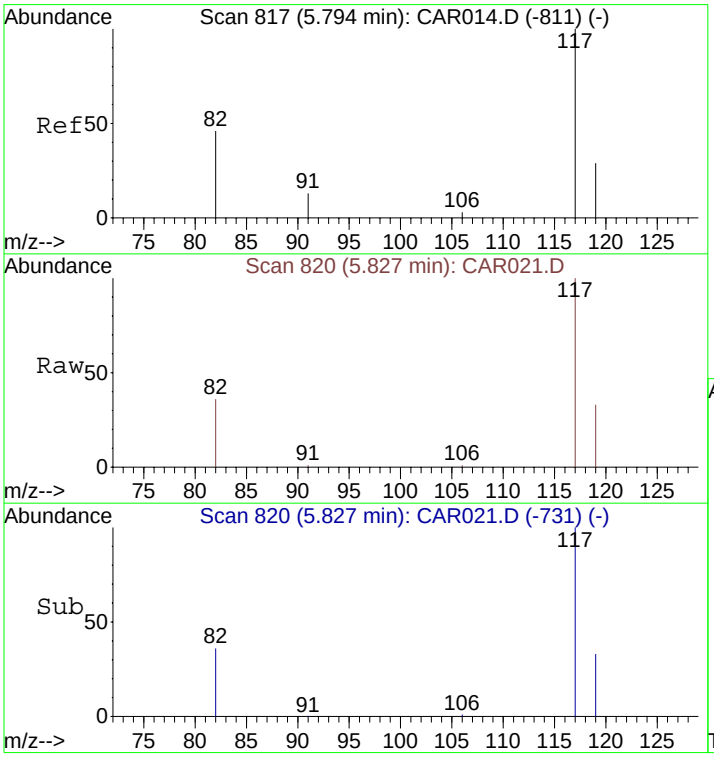


#11
Trichloroethene
Concen: 0.91 ppbv m
RT: 4.64 min Scan# 573
Delta R.T. 0.01 min
Lab File: CAR021.D
Acq: 16 Sep 2008 9:57

Tgt Ion:130 Resp: 192

Ion	Ratio	Lower	Upper
130	100		
132	99.0	73.8	110.6
95	87.0	72.5	108.7

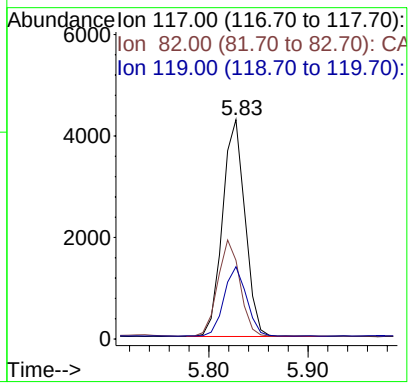


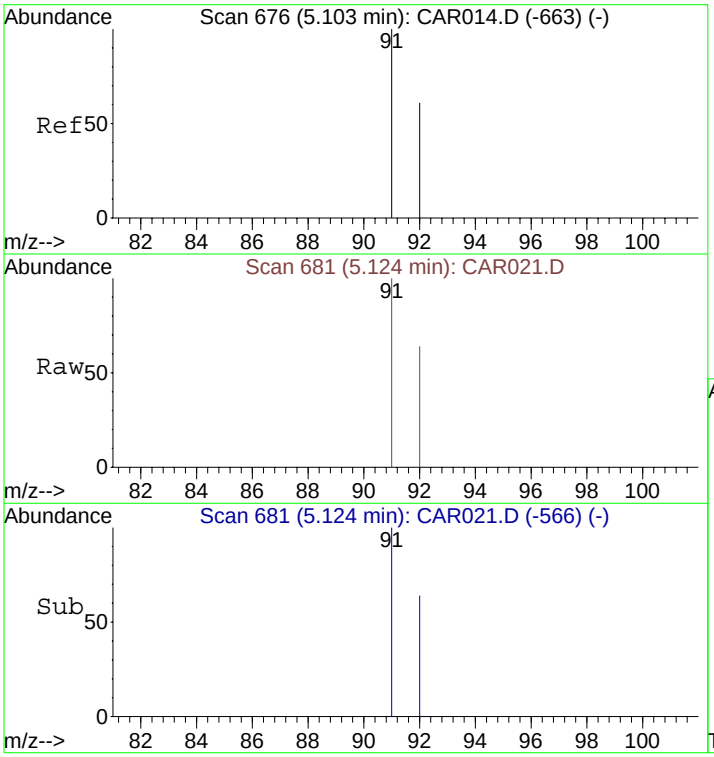


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.83 min Scan# 820
Delta R.T. 0.03 min
Lab File: CAR021.D
Acq: 16 Sep 2008 9:57

Tgt Ion:117 Resp: 6751

Ion	Ratio	Lower	Upper
117	100		
82	44.5	38.3	57.5
119	31.9	26.0	39.0

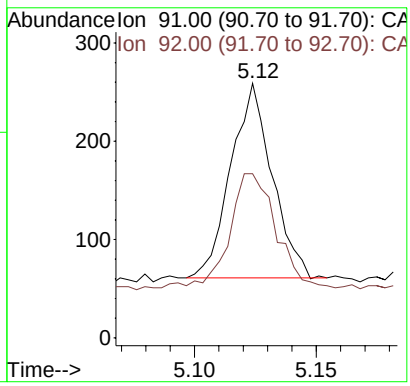


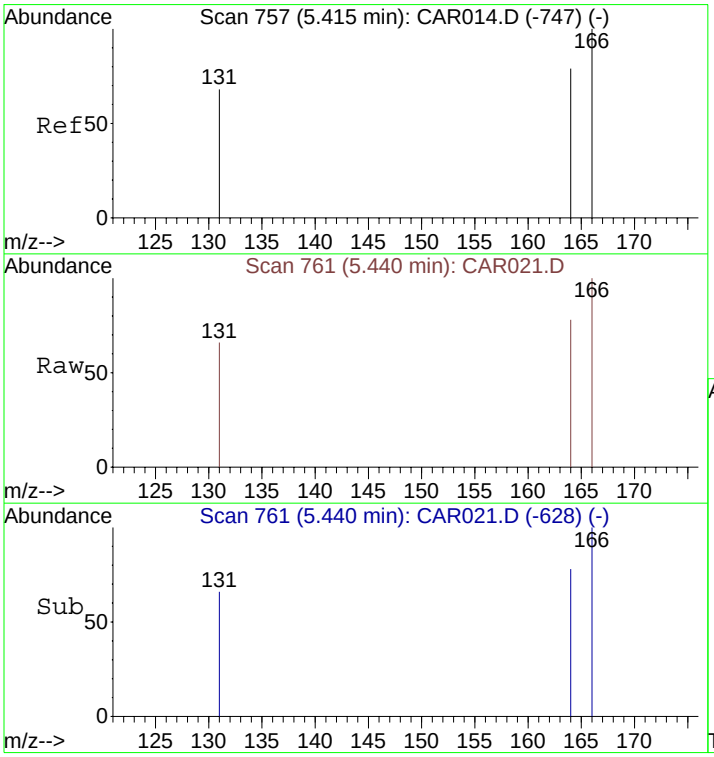


#13
Toluene
Concen: 0.57 ppbv
RT: 5.12 min Scan# 681
Delta R.T. 0.02 min
Lab File: CAR021.D
Acq: 16 Sep 2008 9:57

Tgt Ion: 91 Resp: 234

Ion	Ratio	Lower	Upper
91	100		
92	63.2	48.2	72.2

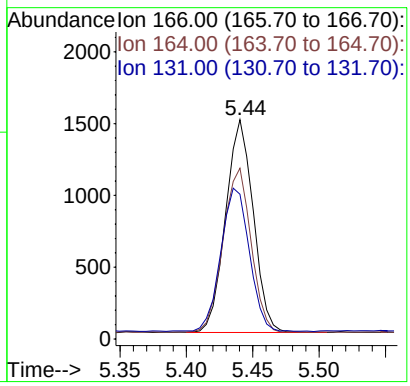




#14
Tetrachloroethene
Concen: 8.71 ppbv
RT: 5.44 min Scan# 761
Delta R.T. 0.03 min
Lab File: CAR021.D
Acq: 16 Sep 2008 9:57

Tgt Ion:166 Resp: 2148

Ion	Ratio	Lower	Upper
166	100		
164	78.0	63.1	94.7
131	68.9	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR022.D Vial: 1
Acq On : 16 Sep 2008 10:08 Operator:
Sample : 51353\H3-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 07:19:42 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 06:10:49 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1979	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	7036	10.00 ppbv	0.01
12) Chlorobenzene-d5	5.82	117	6616	10.00 ppbv	0.03

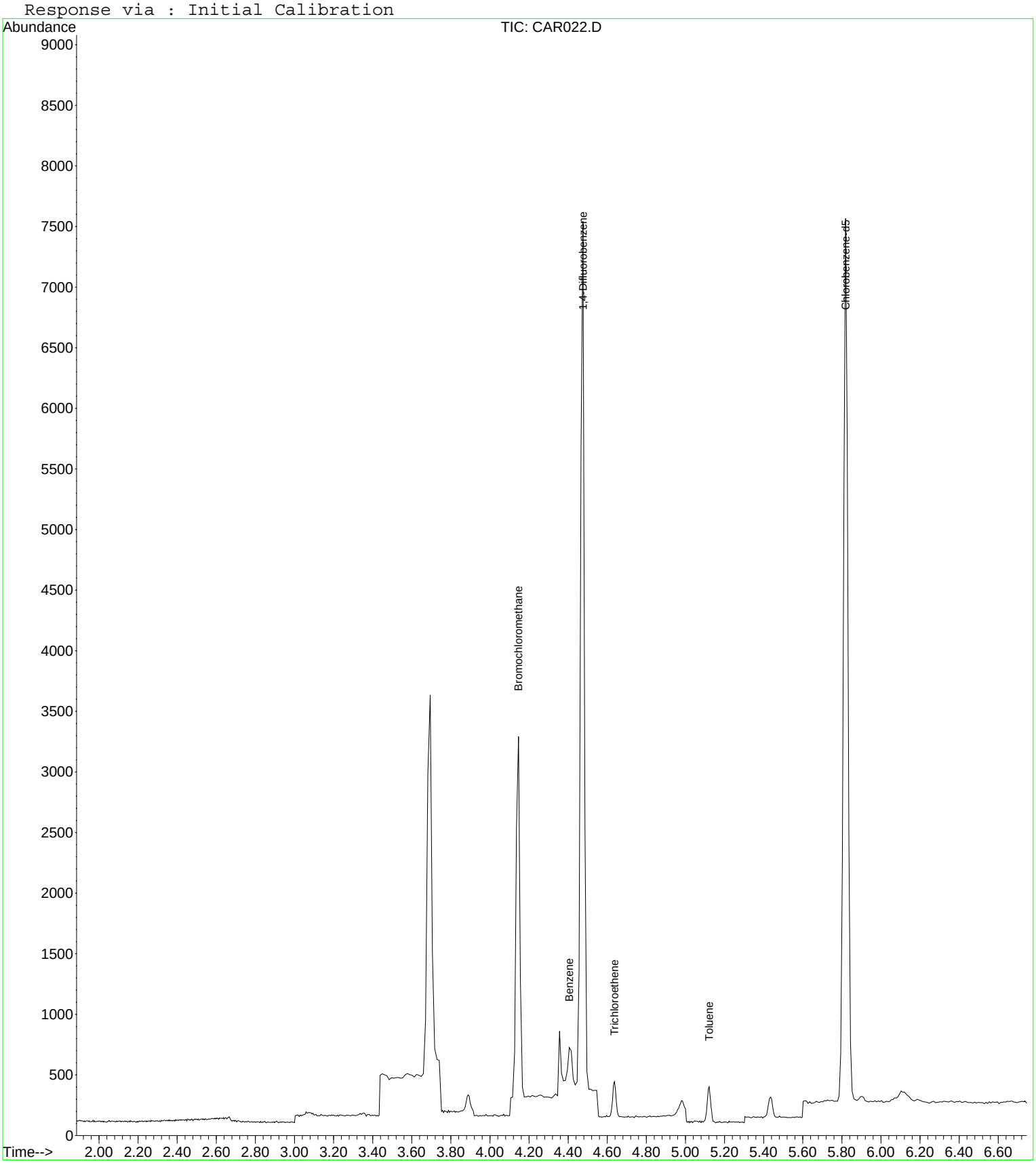
Target Compounds					Qvalue
10) Benzene	4.42	78	380m	0.89 ppbv	
11) Trichloroethene	4.64	130	125	0.60 ppbv	92
13) Toluene	5.12	91	241	0.60 ppbv	98

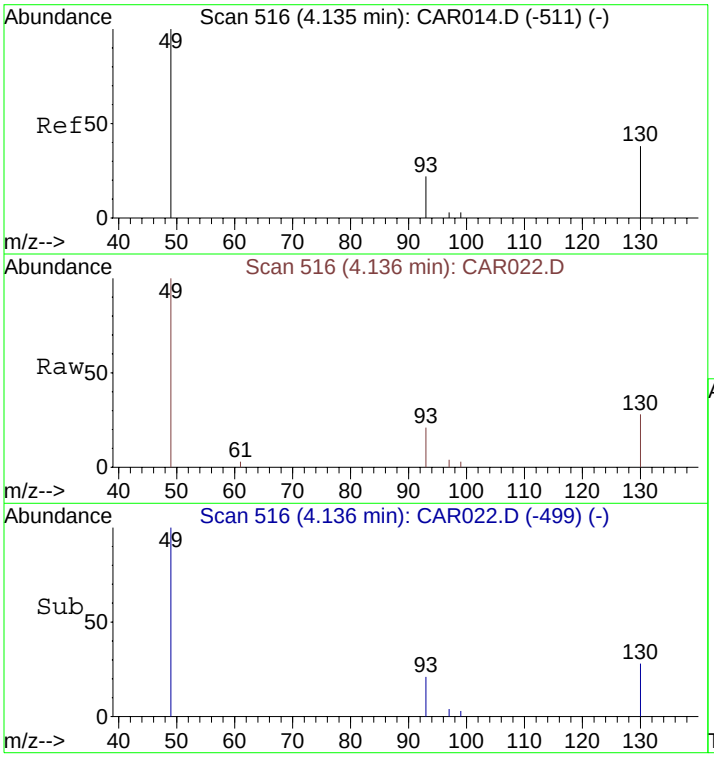
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR022.D Vial: 1
Acq On : 16 Sep 2008 10:08 Operator:
Sample : 51353\H3-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 10:35 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 10:37:21 2008
Response via : Initial Calibration

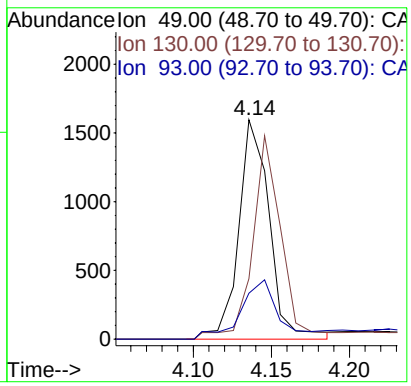


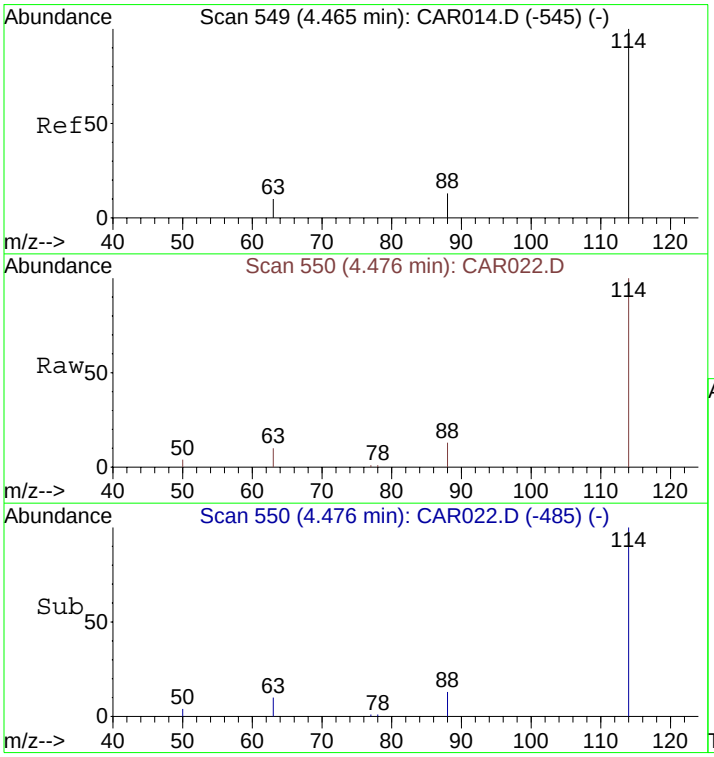


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR022.D
Acq: 16 Sep 2008 10:08

Tgt Ion: 49 Resp: 1979

Ion	Ratio	Lower	Upper
49	100		
130	87.3	65.1	97.7
93	32.7	33.8	50.6#

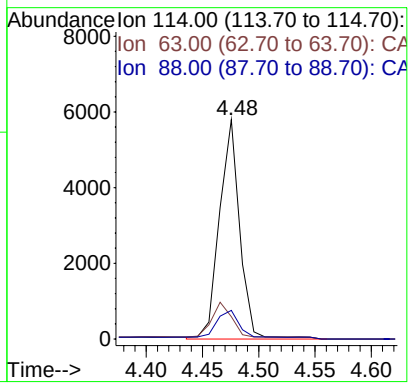


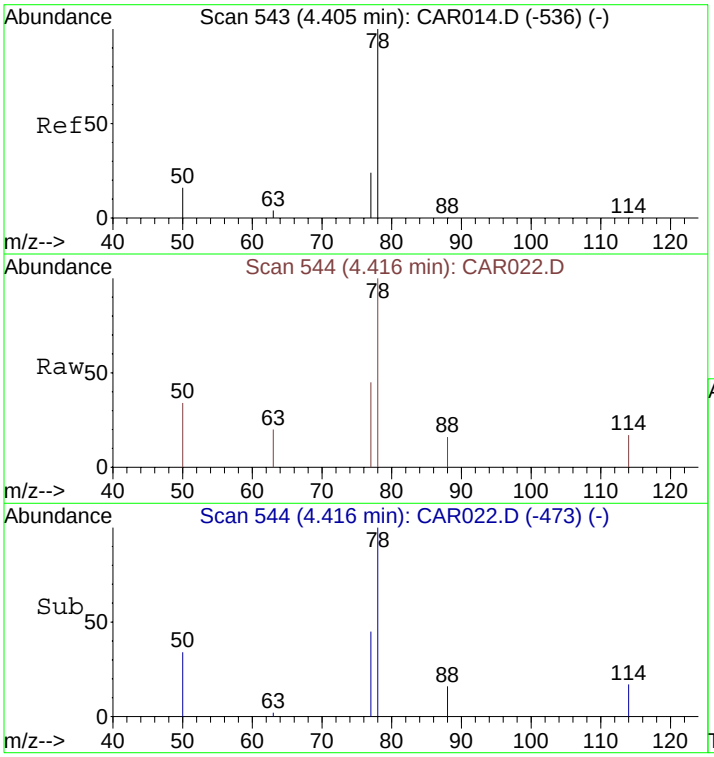


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR022.D
Acq: 16 Sep 2008 10:08

Tgt Ion:114 Resp: 7036

Ion	Ratio	Lower	Upper
114	100		
63	16.9	15.8	23.8
88	17.2	12.2	18.2

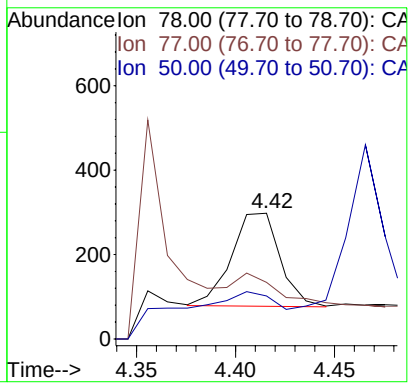


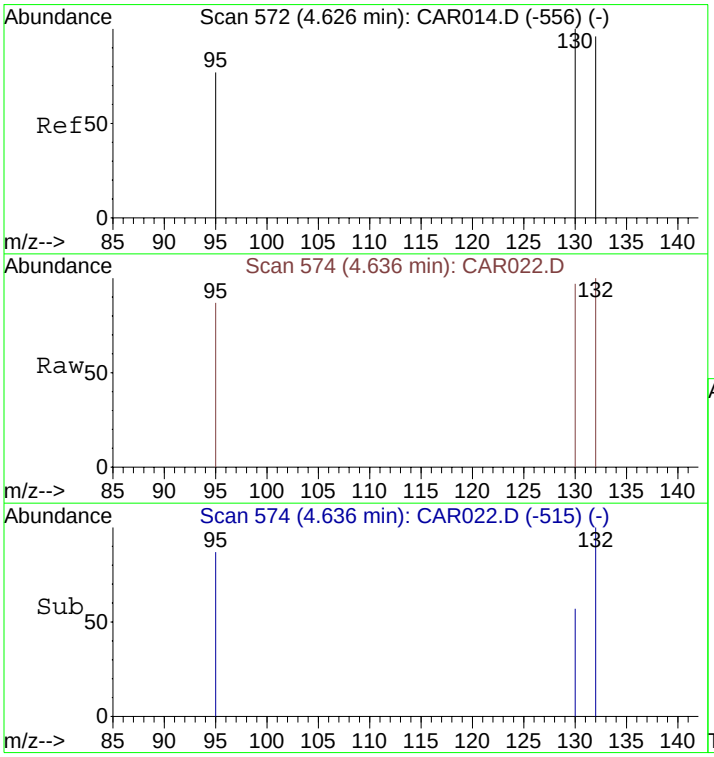


#10
Benzene
Concen: 0.89 ppbv m
RT: 4.42 min Scan# 544
Delta R.T. 0.01 min
Lab File: CAR022.D
Acq: 16 Sep 2008 10:08

Tgt Ion: 78 Resp: 380

Ion	Ratio	Lower	Upper
78	100		
77	10.5	18.6	28.0#
50	12.4	16.2	24.4#

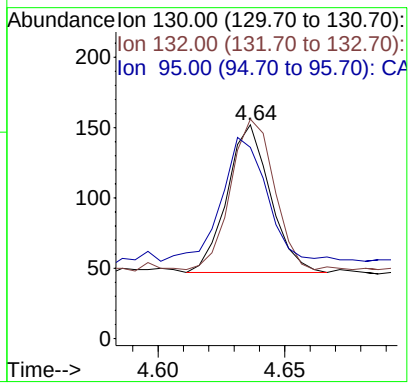


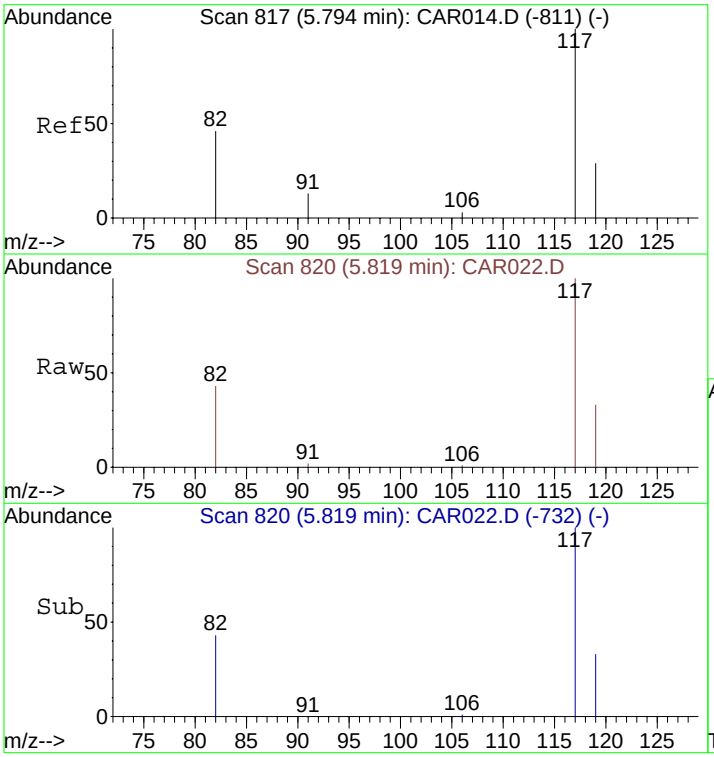


#11
Trichloroethene
Concen: 0.60 ppbv
RT: 4.64 min Scan# 574
Delta R.T. 0.01 min
Lab File: CAR022.D
Acq: 16 Sep 2008 10:08

Tgt Ion:130 Resp: 125

Ion	Ratio	Lower	Upper
130	100		
132	102.4	73.8	110.6
95	85.6	72.5	108.7

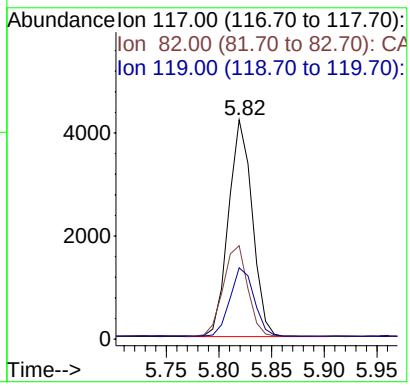


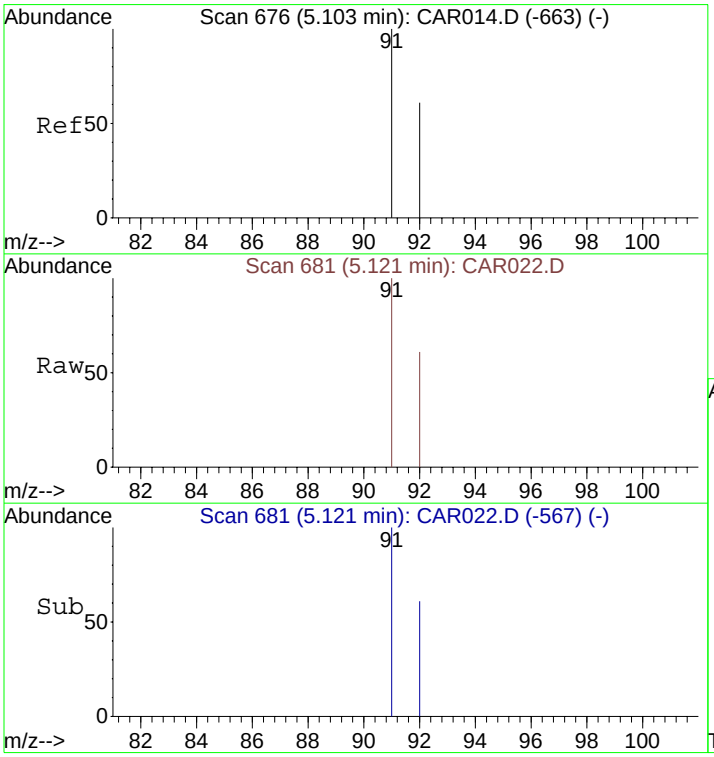


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.82 min Scan# 820
Delta R.T. 0.03 min
Lab File: CAR022.D
Acq: 16 Sep 2008 10:08

Tgt Ion:117 Resp: 6616

Ion	Ratio	Lower	Upper
117	100		
82	42.9	38.3	57.5
119	32.0	26.0	39.0

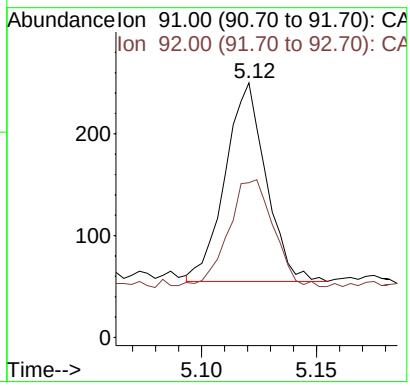




#13
Toluene
Concen: 0.60 ppbv
RT: 5.12 min Scan# 681
Delta R.T. 0.02 min
Lab File: CAR022.D
Acq: 16 Sep 2008 10:08

Tgt Ion: 91 Resp: 241

Ion	Ratio	Lower	Upper
91	100		
92	58.5	48.2	72.2



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR023.D Vial: 1
Acq On : 16 Sep 2008 10:18 Operator: dlm
Sample : 51354\G3-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 07:26:29 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 06:10:49 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	2002	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	7110	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.83	117	6639	10.00 ppbv	0.03

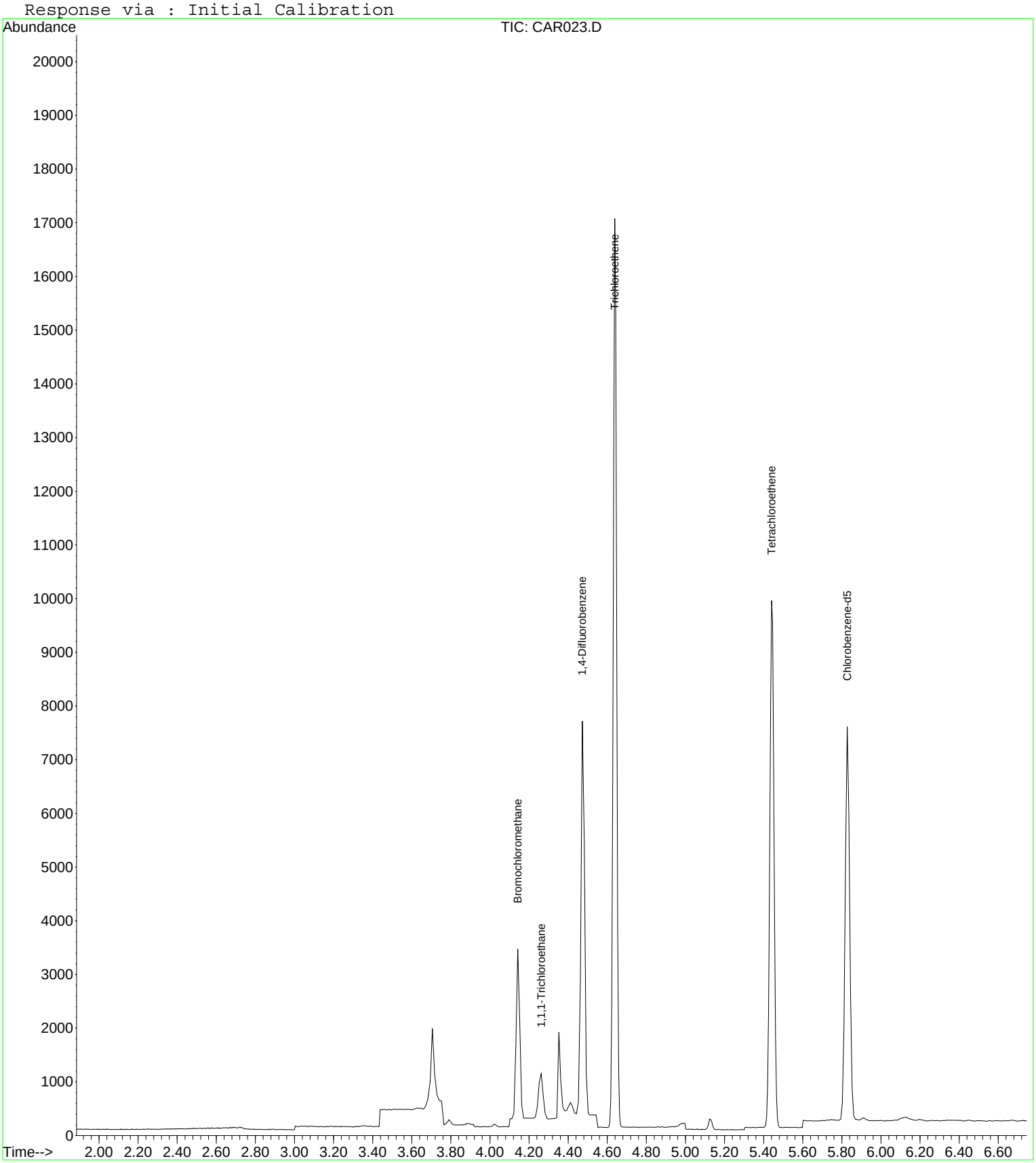
Target Compounds					Qvalue
8) 1,1,1-Trichloroethane	4.26	97	683m	2.73 ppbv	
11) Trichloroethene	4.64	130	7426	35.27 ppbv	93
14) Tetrachloroethene	5.45	166	5933	24.47 ppbv	94

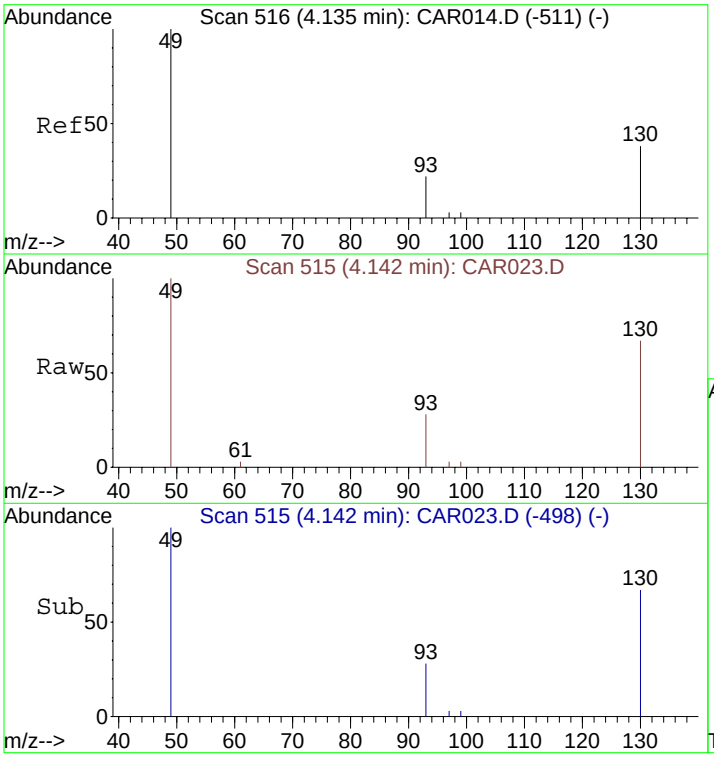
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR023.D Vial: 1
Acq On : 16 Sep 2008 10:18 Operator: dlm
Sample : 51354\G3-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 10:35 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 10:37:21 2008
Response via : Initial Calibration

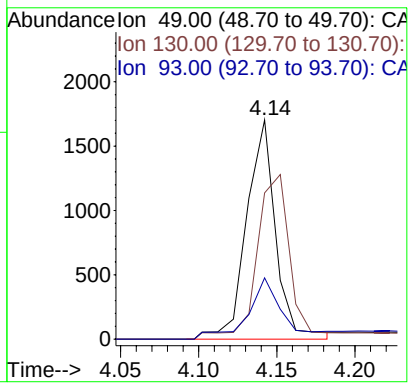


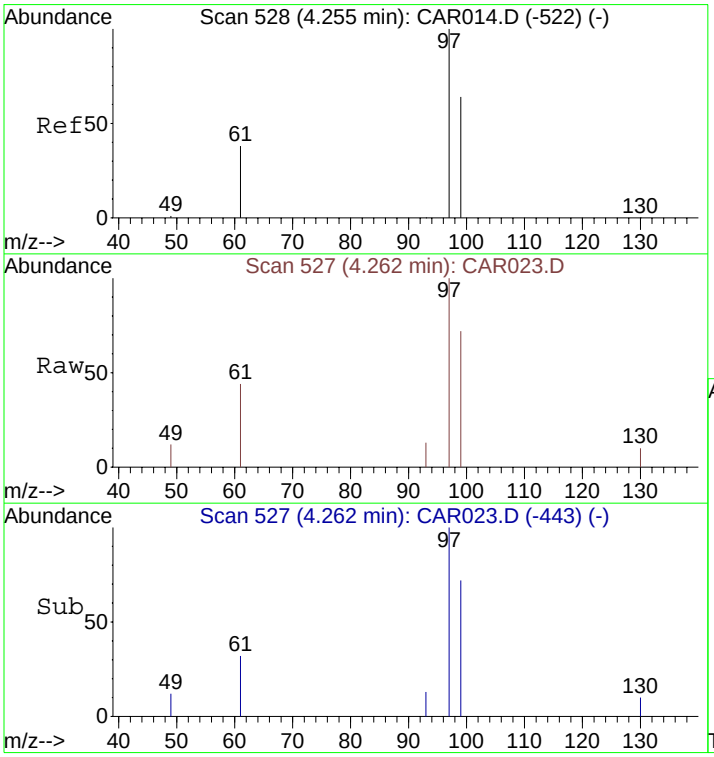


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 515
Delta R.T. 0.01 min
Lab File: CAR023.D
Acq: 16 Sep 2008 10:18

Tgt Ion: 49 Resp: 2002

Ion	Ratio	Lower	Upper
49	100		
130	87.0	65.1	97.7
93	33.9	33.8	50.6

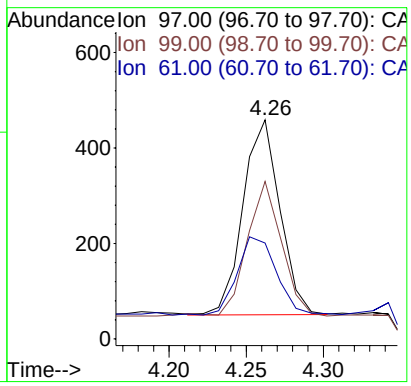


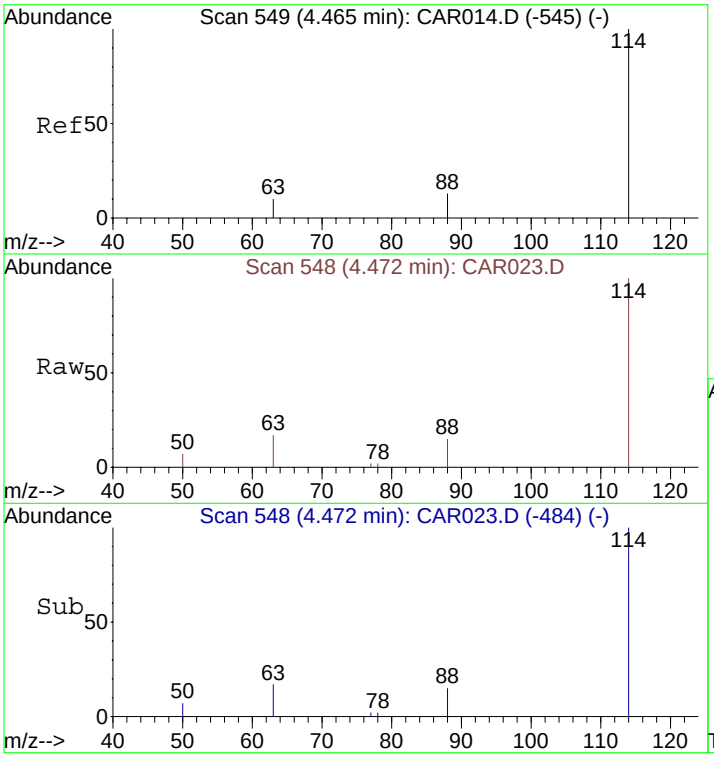


#8
1,1,1-Trichloroethane
Concen: 2.73 ppbv m
RT: 4.26 min Scan# 527
Delta R.T. 0.01 min
Lab File: CAR023.D
Acq: 16 Sep 2008 10:18

Tgt Ion: 97 Resp: 683

Ion	Ratio	Lower	Upper
97	100		
99	62.2	51.8	77.8
61	55.2	32.1	48.1#

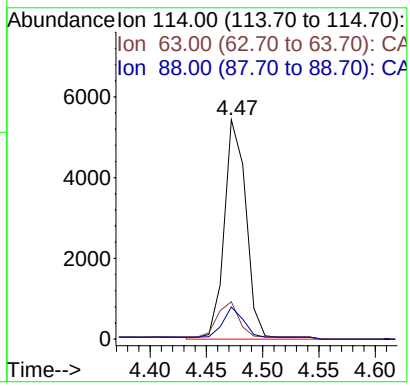


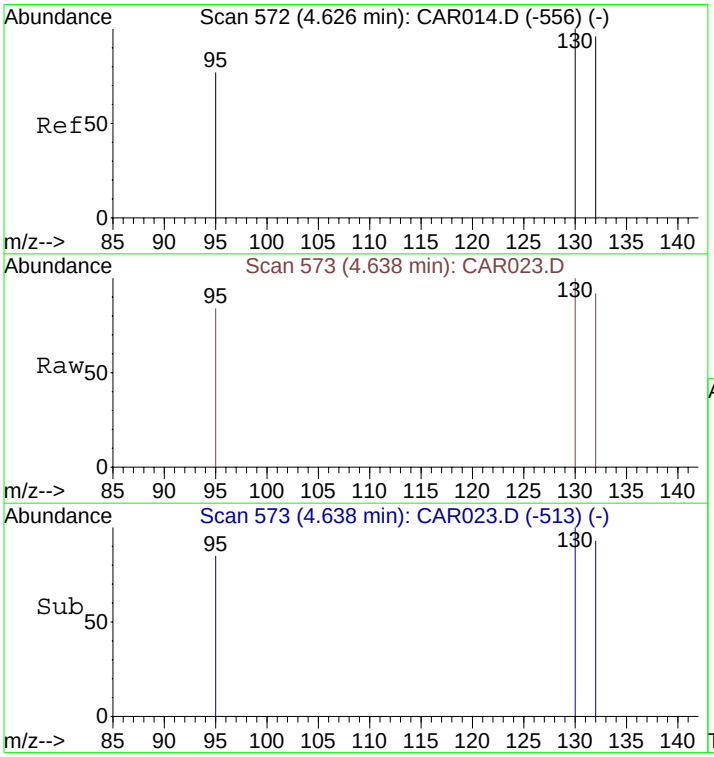


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 548
Delta R.T. 0.01 min
Lab File: CAR023.D
Acq: 16 Sep 2008 10:18

Tgt Ion:114 Resp: 7110

Ion	Ratio	Lower	Upper
114	100		
63	20.2	15.8	23.8
88	16.9	12.2	18.2

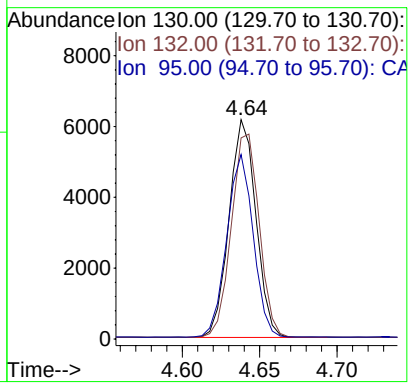


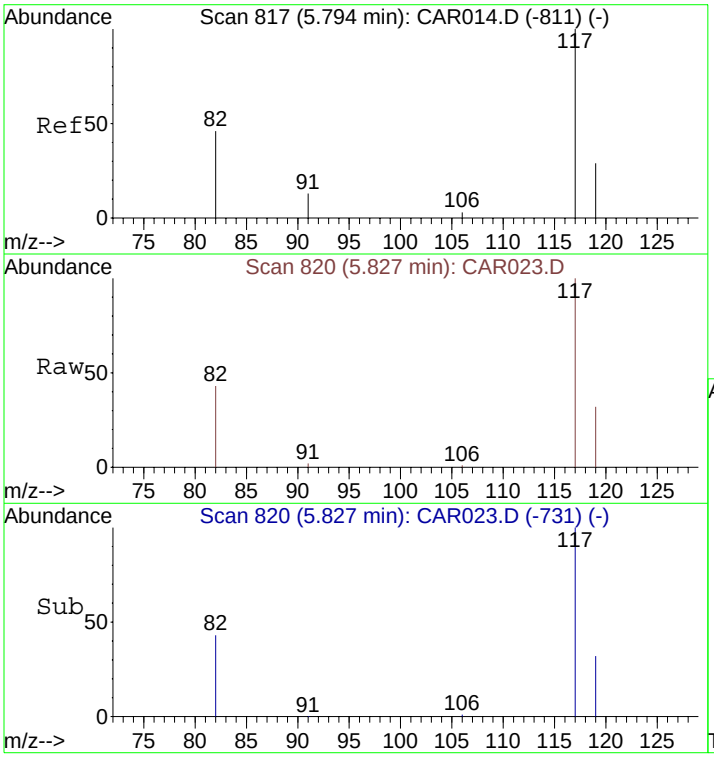


#11
Trichloroethene
Concen: 35.27 ppbv
RT: 4.64 min Scan# 573
Delta R.T. 0.01 min
Lab File: CAR023.D
Acq: 16 Sep 2008 10:18

Tgt Ion:130 Resp: 7426

Ion	Ratio	Lower	Upper
130	100		
132	97.4	73.8	110.6
95	82.3	72.5	108.7

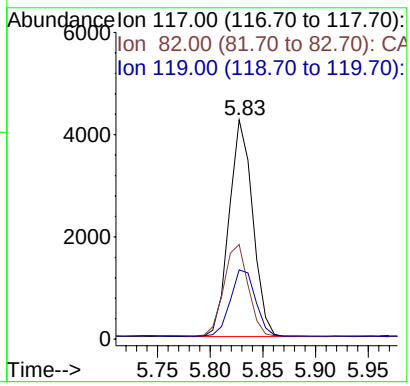


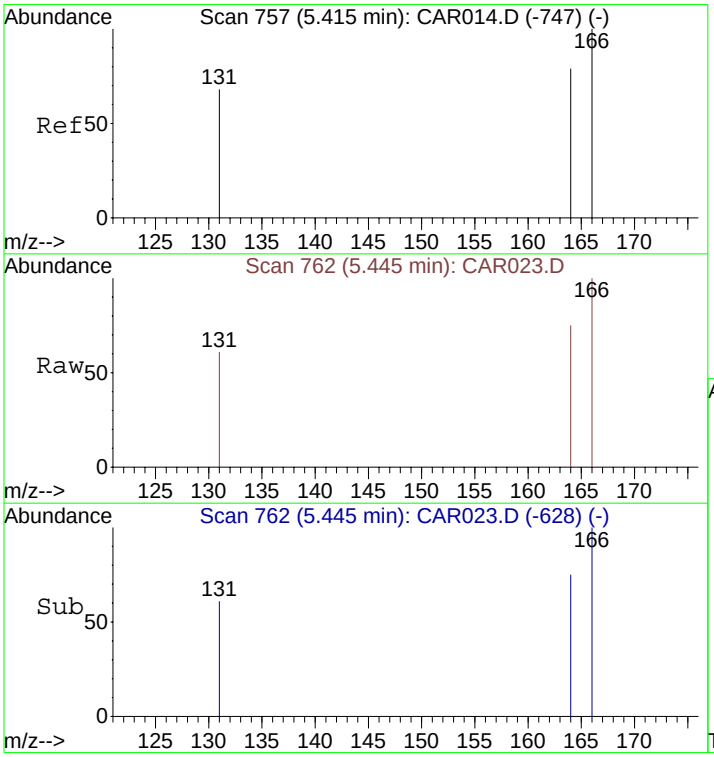


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.83 min Scan# 820
Delta R.T. 0.03 min
Lab File: CAR023.D
Acq: 16 Sep 2008 10:18

Tgt Ion:117 Resp: 6639

Ion	Ratio	Lower	Upper
117	100		
82	43.9	38.3	57.5
119	32.5	26.0	39.0

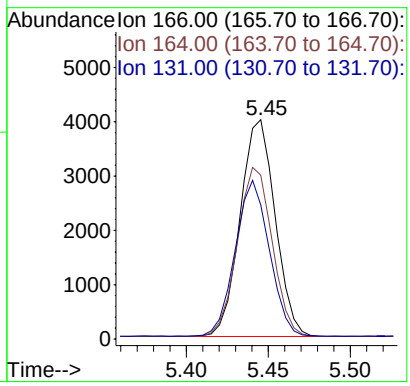




#14
Tetrachloroethene
Concen: 24.47 ppbv
RT: 5.45 min Scan# 762
Delta R.T. 0.03 min
Lab File: CAR023.D
Acq: 16 Sep 2008 10:18

Tgt Ion:166 Resp: 5933

Ion	Ratio	Lower	Upper
166	100		
164	77.6	63.1	94.7
131	70.0	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR024.D Vial: 1
Acq On : 16 Sep 2008 10:29 Operator: dlm
Sample : 51355\H2-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 07:37:22 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 06:10:49 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.13	49	1973	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	6923	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.80	117	6525	10.00 ppbv	0.00

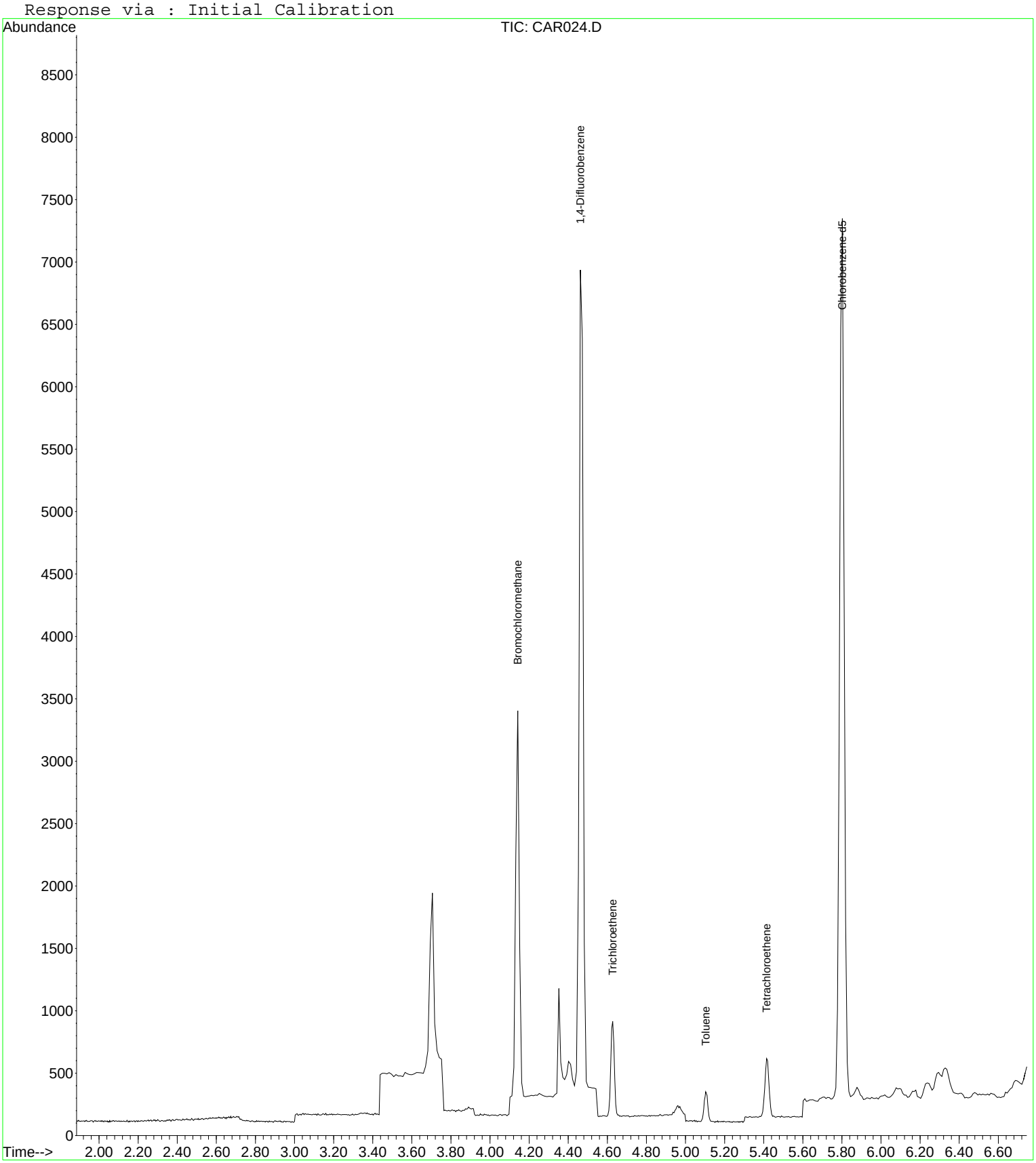
Target Compounds					Qvalue
11) Trichloroethene	4.63	130	346	1.69 ppbv	90
13) Toluene	5.10	91	213	0.54 ppbv	99
14) Tetrachloroethene	5.42	166	284	1.19 ppbv	97

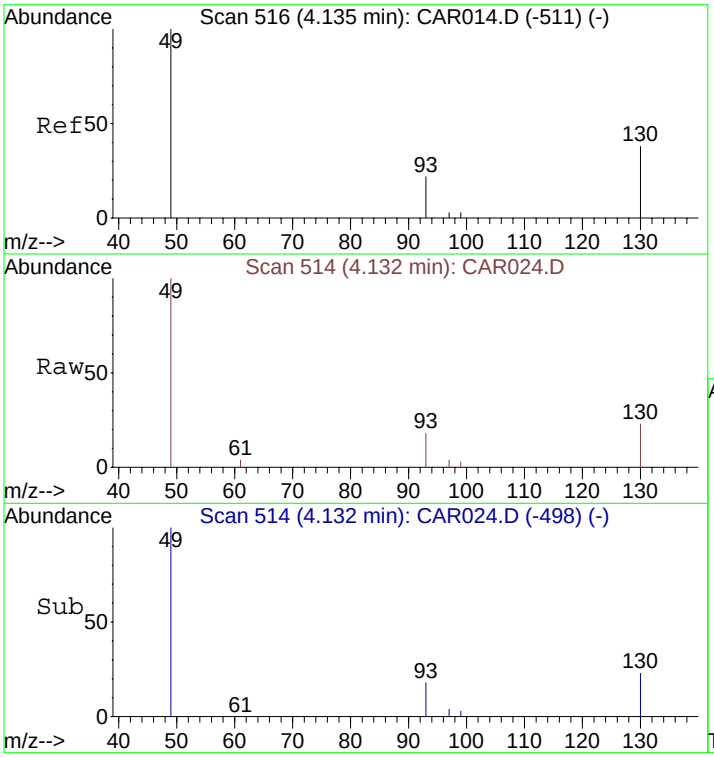
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR024.D Vial: 1
Acq On : 16 Sep 2008 10:29 Operator: dlm
Sample : 51355\H2-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 10:38 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 10:37:21 2008
Response via : Initial Calibration

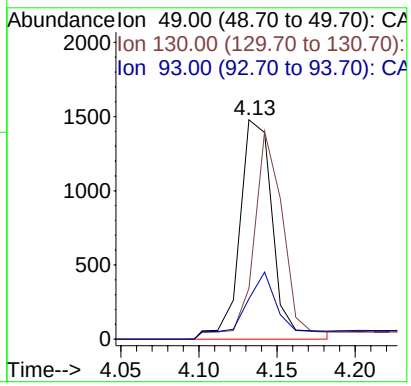


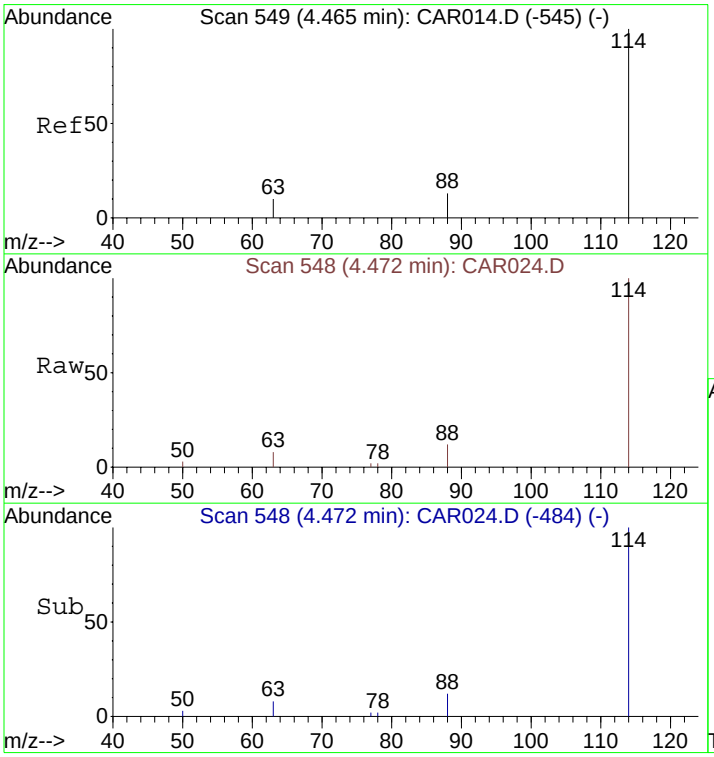


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.13 min Scan# 514
Delta R.T. -0.00 min
Lab File: CAR024.D
Acq: 16 Sep 2008 10:29

Tgt Ion: 49 Resp: 1973

Ion	Ratio	Lower	Upper
49	100		
130	87.0	65.1	97.7
93	31.7	33.8	50.6#

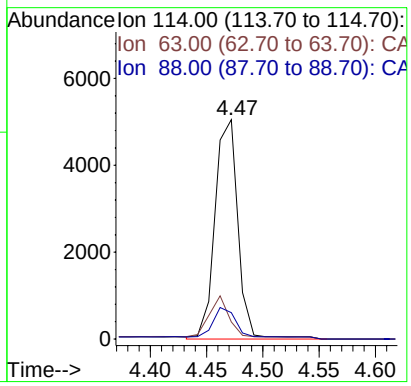


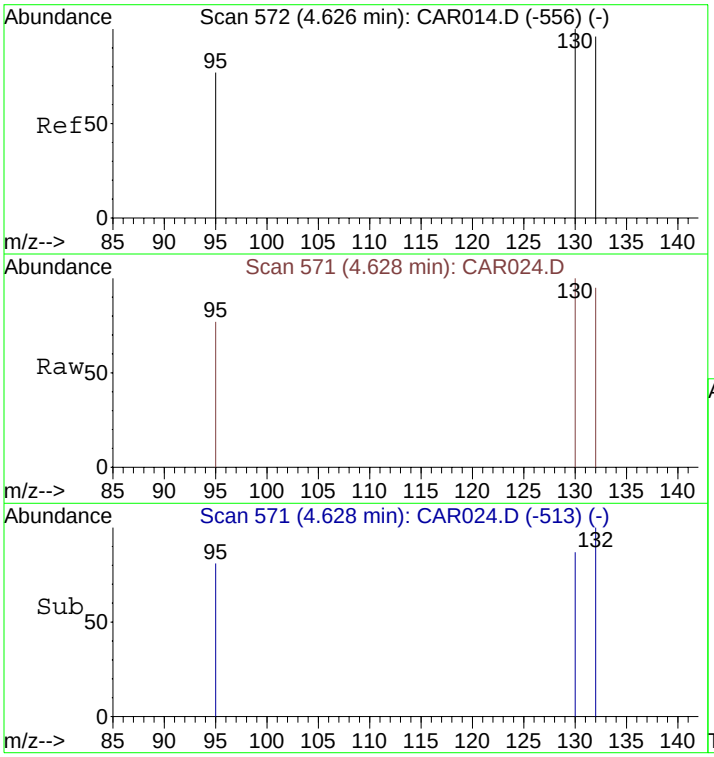


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 548
Delta R.T. 0.01 min
Lab File: CAR024.D
Acq: 16 Sep 2008 10:29

Tgt Ion:114 Resp: 6923

Ion	Ratio	Lower	Upper
114	100		
63	16.8	15.8	23.8
88	17.0	12.2	18.2

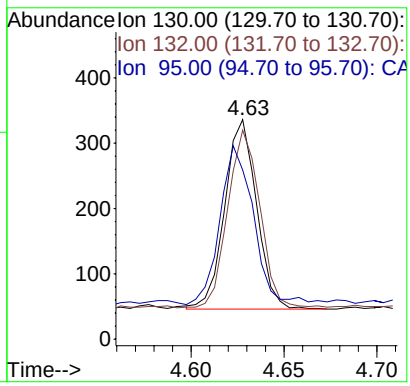


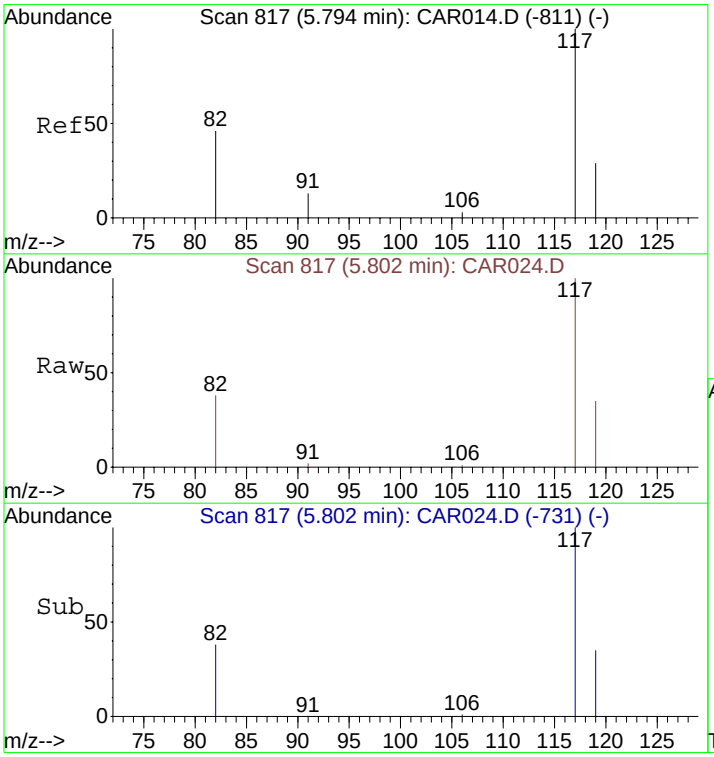


#11
Trichloroethene
Concen: 1.69 ppbv
RT: 4.63 min Scan# 571
Delta R.T. 0.00 min
Lab File: CAR024.D
Acq: 16 Sep 2008 10:29

Tgt Ion:130 Resp: 346

Ion	Ratio	Lower	Upper
130	100		
132	93.4	73.8	110.6
95	107.8	72.5	108.7

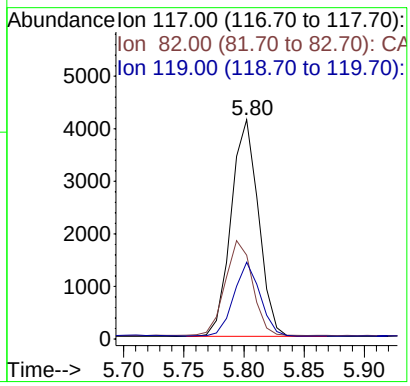


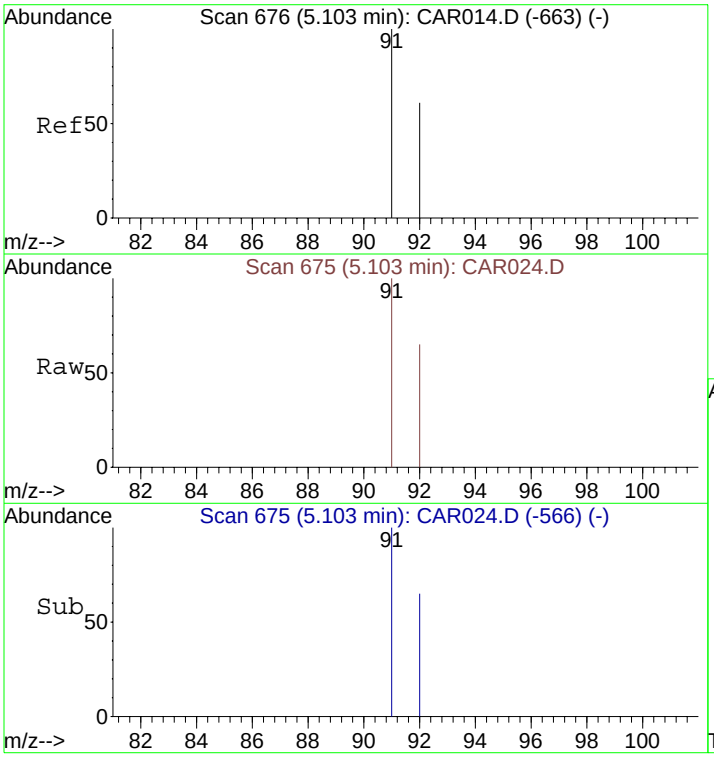


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.80 min Scan# 817
Delta R.T. 0.01 min
Lab File: CAR024.D
Acq: 16 Sep 2008 10:29

Tgt Ion:117 Resp: 6525

Ion	Ratio	Lower	Upper
117	100		
82	43.6	38.3	57.5
119	32.7	26.0	39.0

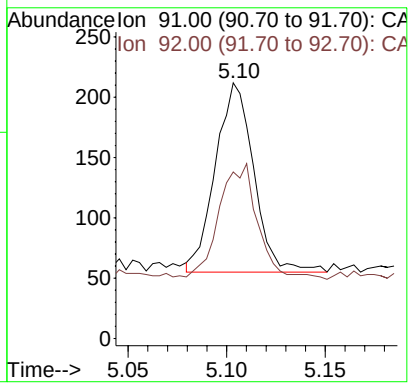


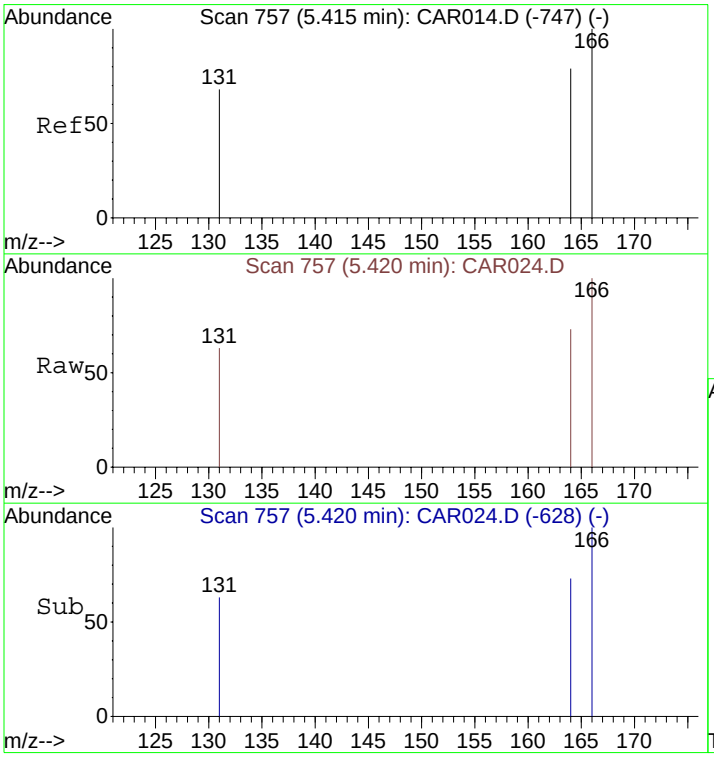


#13
Toluene
Concen: 0.54 ppbv
RT: 5.10 min Scan# 675
Delta R.T. 0.00 min
Lab File: CAR024.D
Acq: 16 Sep 2008 10:29

Tgt Ion: 91 Resp: 213

Ion	Ratio	Lower	Upper
91	100		
92	61.0	48.2	72.2

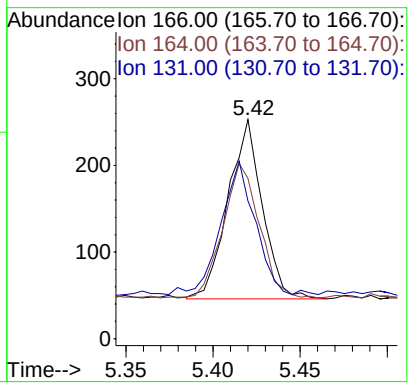




#14
Tetrachloroethene
Concen: 1.19 ppbv
RT: 5.42 min Scan# 757
Delta R.T. 0.01 min
Lab File: CAR024.D
Acq: 16 Sep 2008 10:29

Tgt Ion:166 Resp: 284

Ion	Ratio	Lower	Upper
166	100		
164	79.2	63.1	94.7
131	72.9	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR025.D Vial: 1
Acq On : 16 Sep 2008 10:39 Operator: dlm
Sample : 51356\H1-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 07:47:05 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 06:10:49 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1993	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	7063	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.81	117	6666	10.00 ppbv	0.02

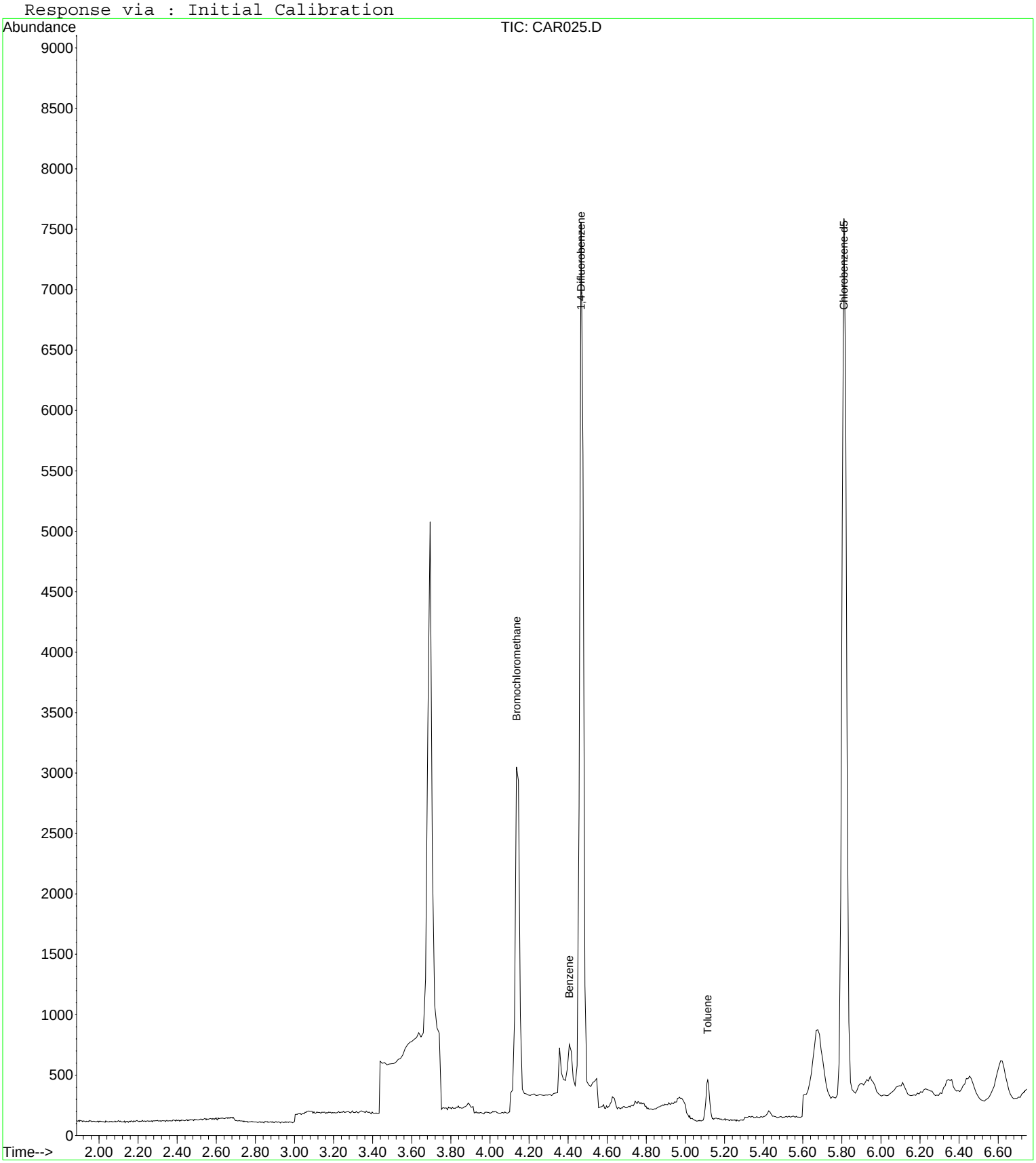
Target Compounds					Qvalue
10) Benzene	4.41	78	329m	0.77 ppbv	
13) Toluene	5.11	91	276	0.68 ppbv	99

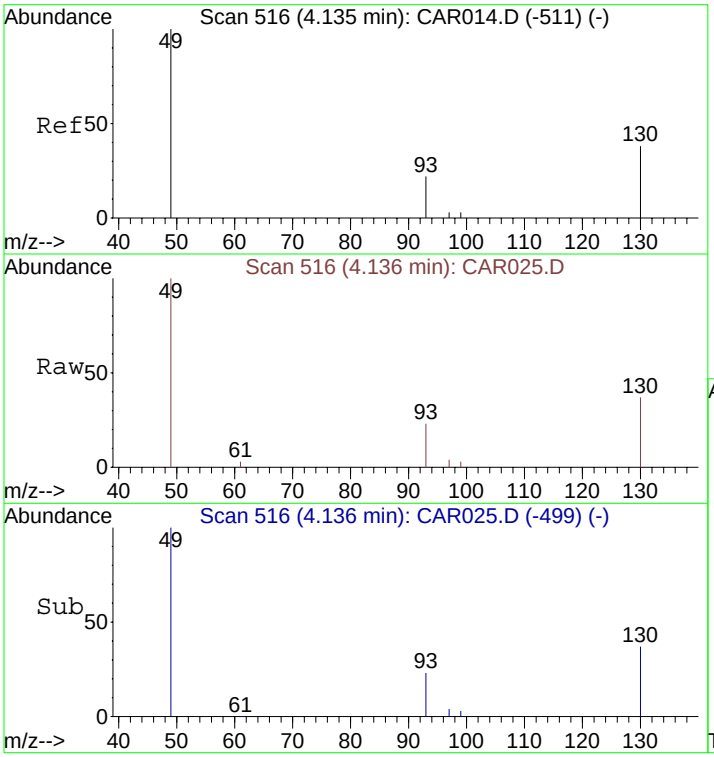
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR025.D Vial: 1
Acq On : 16 Sep 2008 10:39 Operator: dlm
Sample : 51356\H1-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 11:04 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 10:37:21 2008
Response via : Initial Calibration

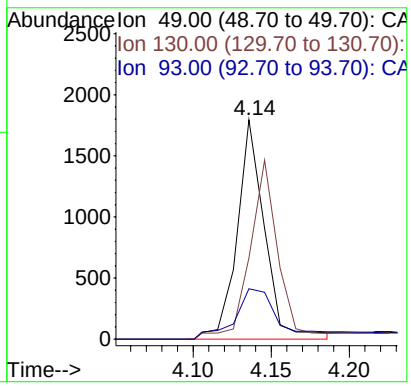


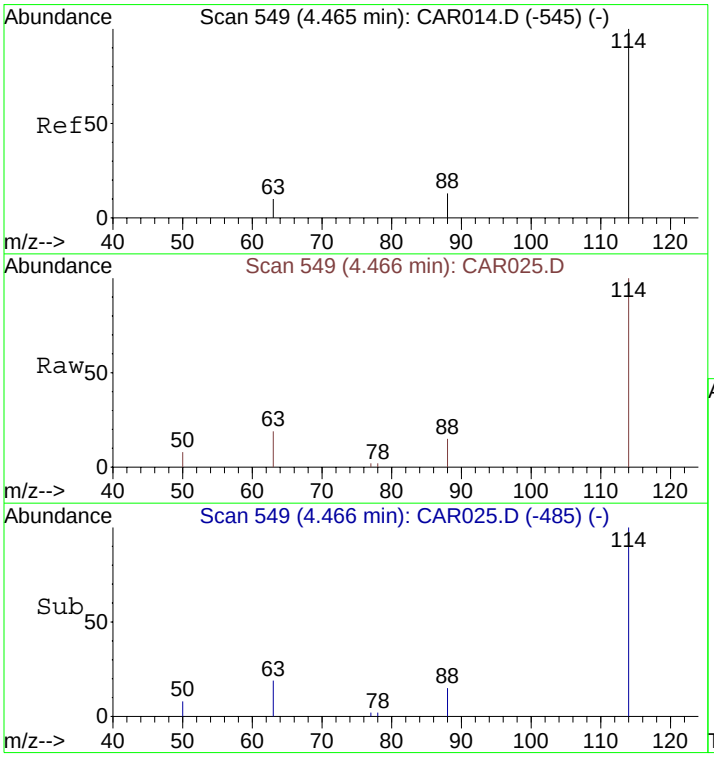


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR025.D
Acq: 16 Sep 2008 10:39

Tgt Ion: 49 Resp: 1993

Ion	Ratio	Lower	Upper
49	100		
130	83.4	65.1	97.7
93	36.6	33.8	50.6

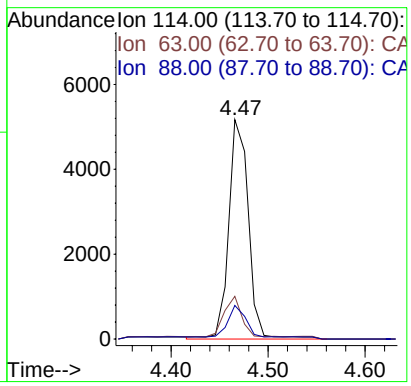


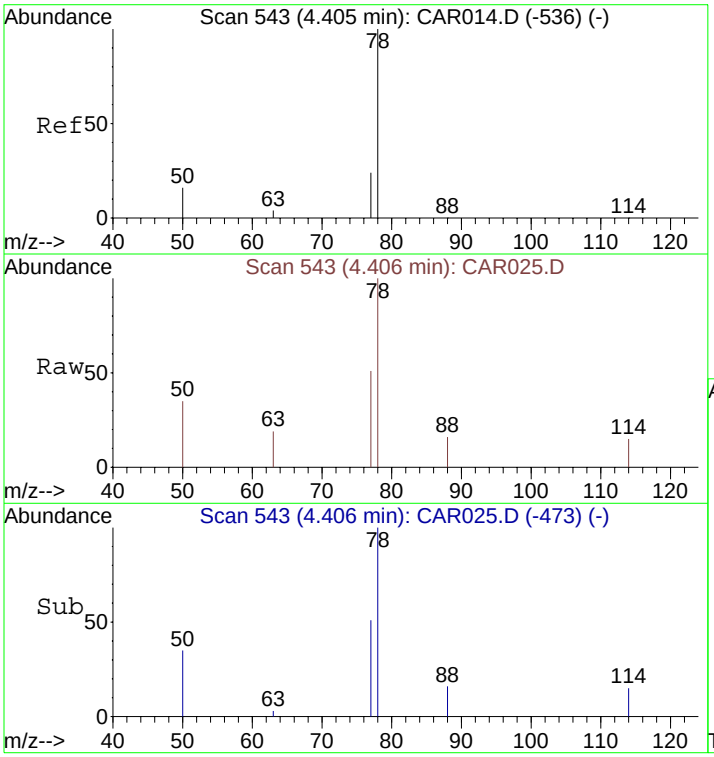


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. 0.00 min
Lab File: CAR025.D
Acq: 16 Sep 2008 10:39

Tgt Ion:114 Resp: 7063

Ion	Ratio	Lower	Upper
114	100		
63	18.0	15.8	23.8
88	14.0	12.2	18.2

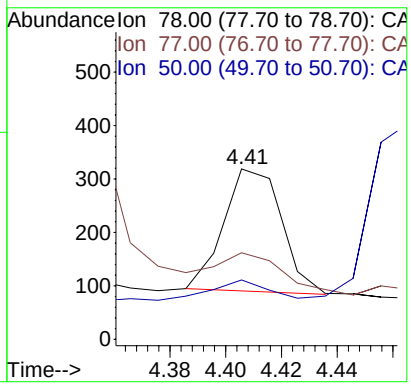


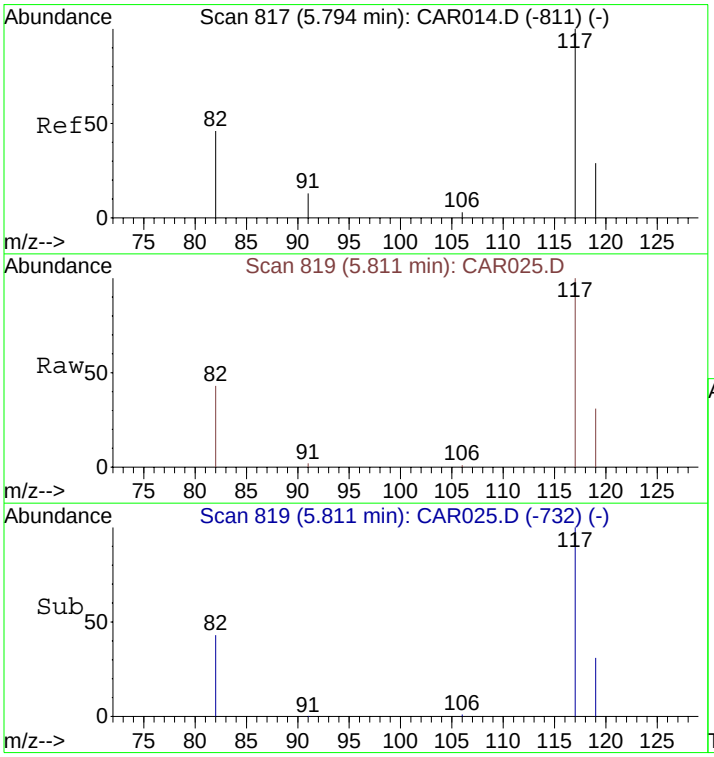


#10
Benzene
Concen: 0.77 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR025.D
Acq: 16 Sep 2008 10:39

Tgt Ion: 78 Resp: 329

Ion	Ratio	Lower	Upper
78	100		
77	15.2	18.6	28.0#
50	13.4	16.2	24.4#

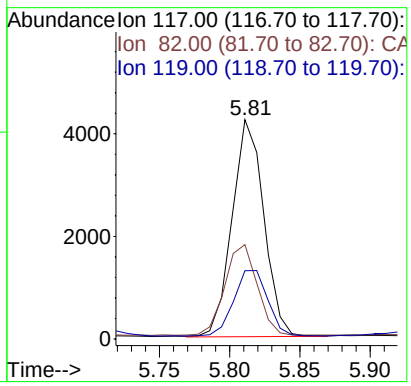


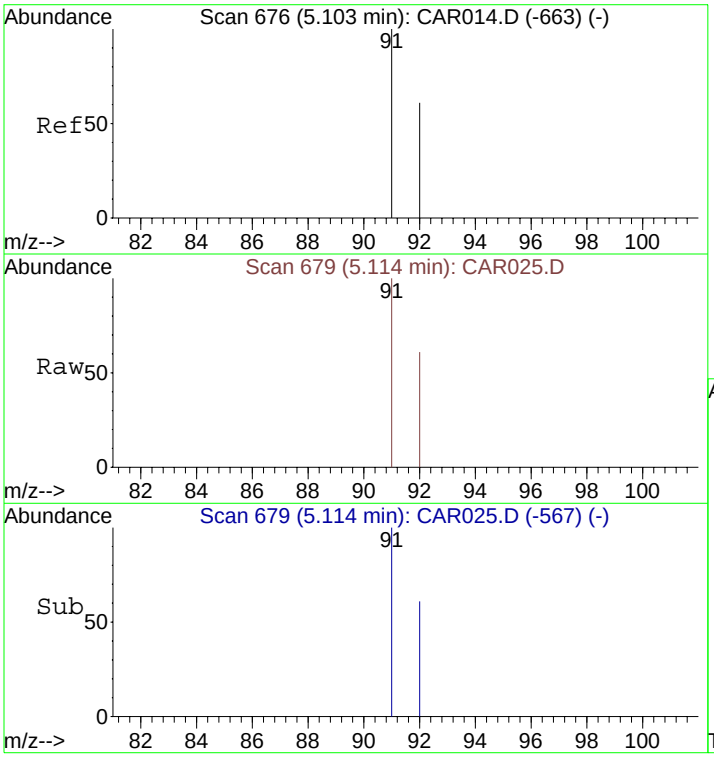


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.81 min Scan# 819
Delta R.T. 0.02 min
Lab File: CAR025.D
Acq: 16 Sep 2008 10:39

Tgt Ion:117 Resp: 6666

Ion	Ratio	Lower	Upper
117	100		
82	42.4	38.3	57.5
119	35.5	26.0	39.0

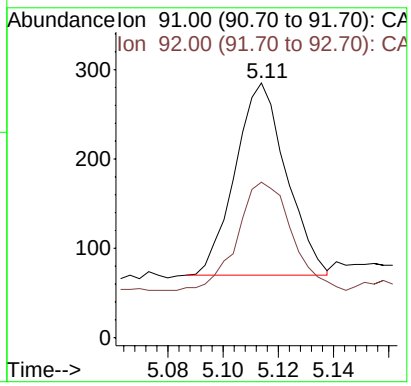




#13
Toluene
Concen: 0.68 ppbv
RT: 5.11 min Scan# 679
Delta R.T. 0.01 min
Lab File: CAR025.D
Acq: 16 Sep 2008 10:39

Tgt Ion: 91 Resp: 276

Ion	Ratio	Lower	Upper
91	100		
92	59.4	48.2	72.2



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR026.D Vial: 1
Acq On : 16 Sep 2008 10:50 Operator: dlm
Sample : 51357\G1-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 07:59:20 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 06:10:49 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1971	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	6796	10.00 ppbv	0.01
12) Chlorobenzene-d5	5.82	117	6469	10.00 ppbv	0.03

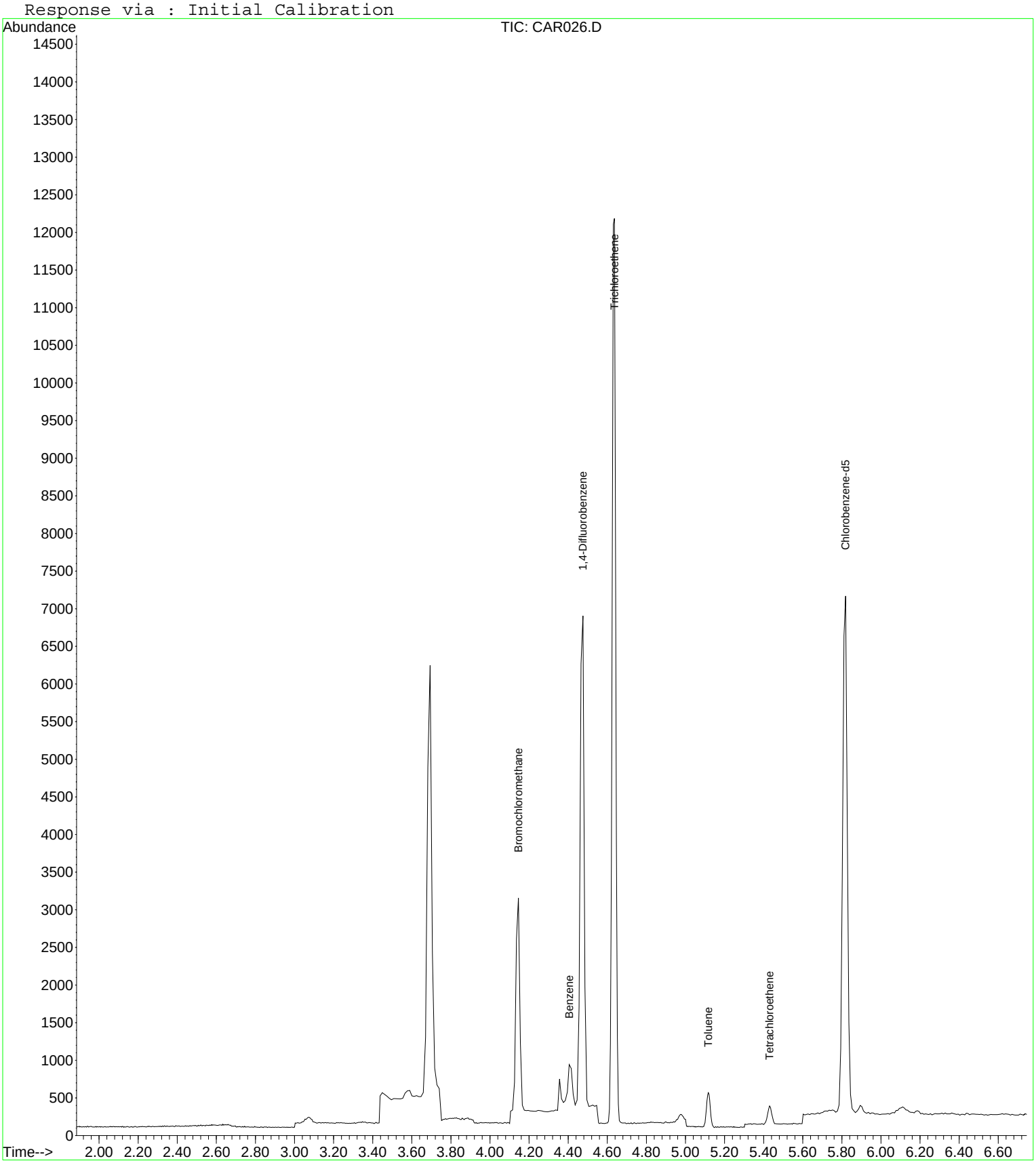
Target Compounds					Qvalue
10) Benzene	4.42	78	580m	1.40 ppbv	
11) Trichloroethene	4.64	130	5418	26.92 ppbv	95
13) Toluene	5.12	91	402	1.02 ppbv	97
14) Tetrachloroethene	5.43	166	148	0.63 ppbv	98

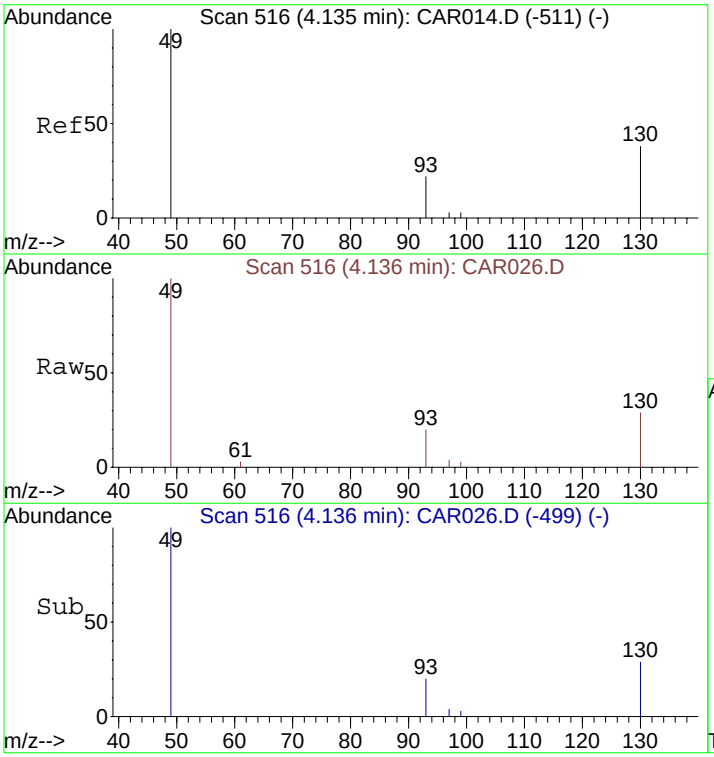
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR026.D Vial: 1
Acq On : 16 Sep 2008 10:50 Operator: dlm
Sample : 51357\G1-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 11:05 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 10:37:21 2008
Response via : Initial Calibration

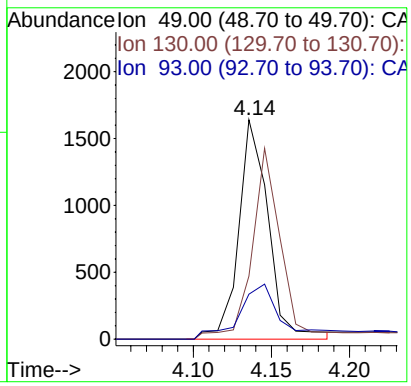


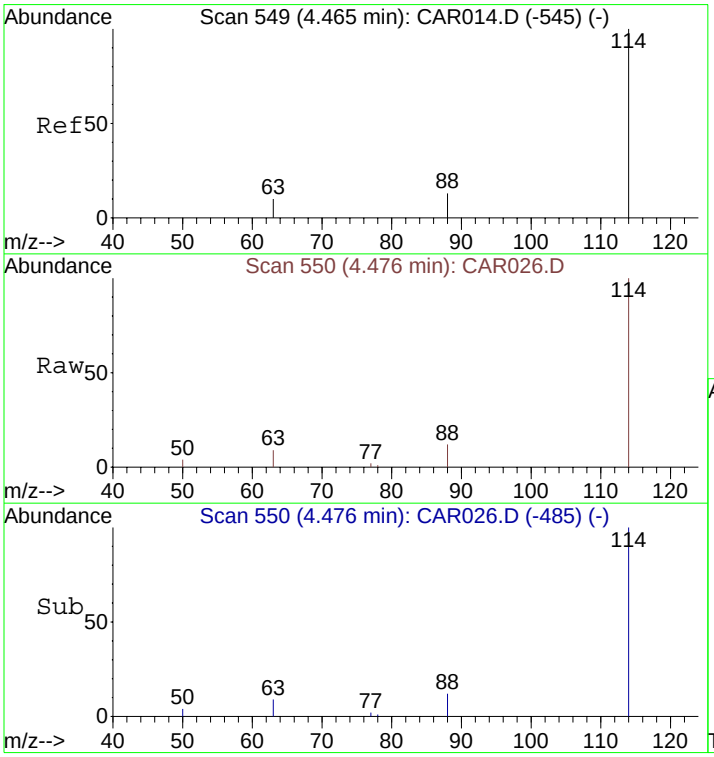


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR026.D
Acq: 16 Sep 2008 10:50

Tgt Ion: 49 Resp: 1971

Ion	Ratio	Lower	Upper
49	100		
130	85.5	65.1	97.7
93	37.7	33.8	50.6

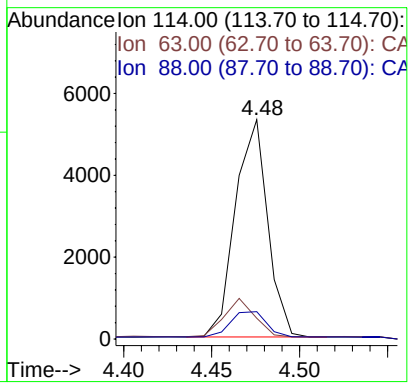


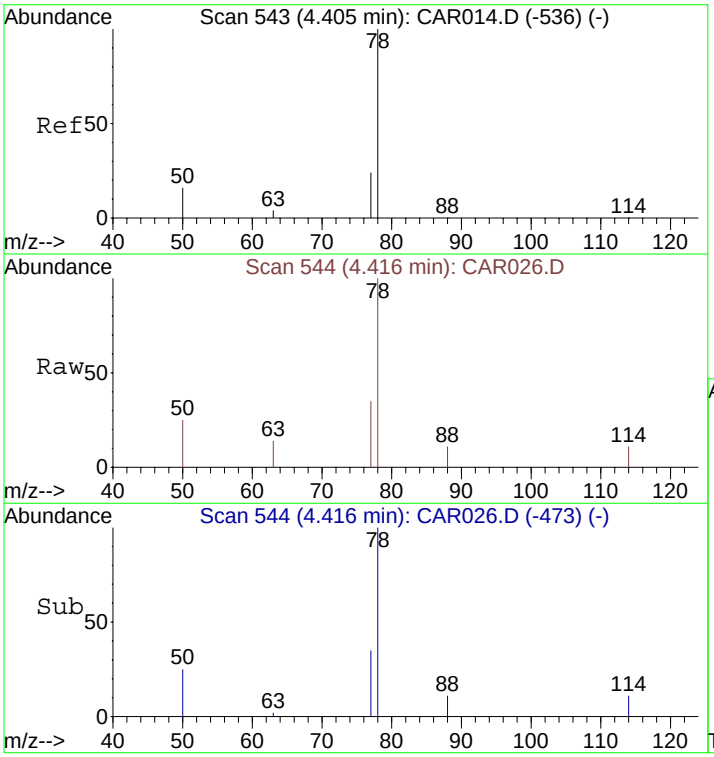


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR026.D
Acq: 16 Sep 2008 10:50

Tgt Ion:114 Resp: 6796

Ion	Ratio	Lower	Upper
114	100		
63	16.6	15.8	23.8
88	17.2	12.2	18.2

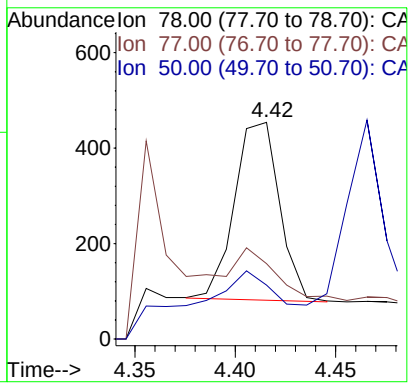


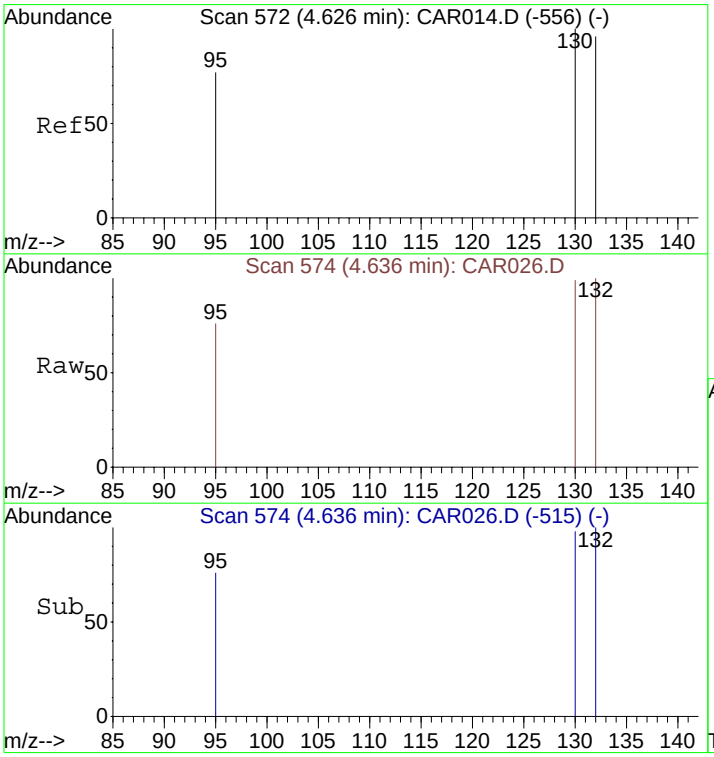


#10
Benzene
Concen: 1.40 ppbv m
RT: 4.42 min Scan# 544
Delta R.T. 0.01 min
Lab File: CAR026.D
Acq: 16 Sep 2008 10:50

Tgt Ion: 78 Resp: 580

Ion	Ratio	Lower	Upper
78	100		
77	13.1	18.6	28.0#
50	16.7	16.2	24.4

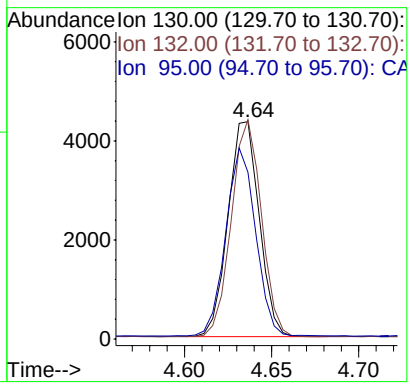


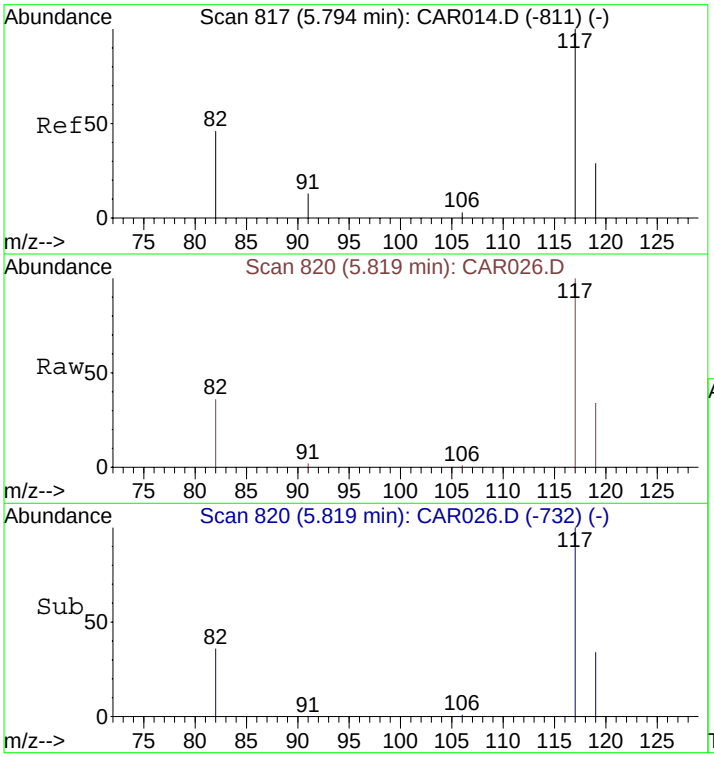


#11
Trichloroethene
Concen: 26.92 ppbv
RT: 4.64 min Scan# 574
Delta R.T. 0.01 min
Lab File: CAR026.D
Acq: 16 Sep 2008 10:50

Tgt Ion:130 Resp: 5418

Ion	Ratio	Lower	Upper
130	100		
132	96.7	73.8	110.6
95	85.7	72.5	108.7

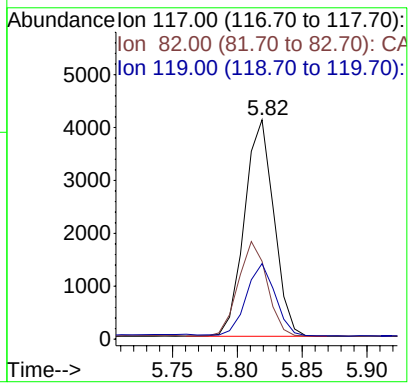


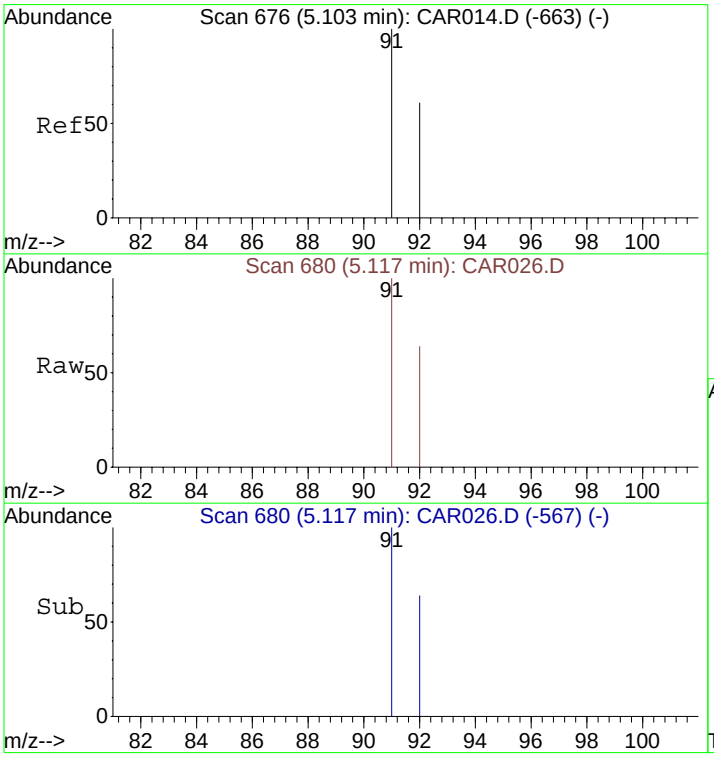


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.82 min Scan# 820
Delta R.T. 0.03 min
Lab File: CAR026.D
Acq: 16 Sep 2008 10:50

Tgt Ion:117 Resp: 6469

Ion	Ratio	Lower	Upper
117	100		
82	43.2	38.3	57.5
119	33.5	26.0	39.0

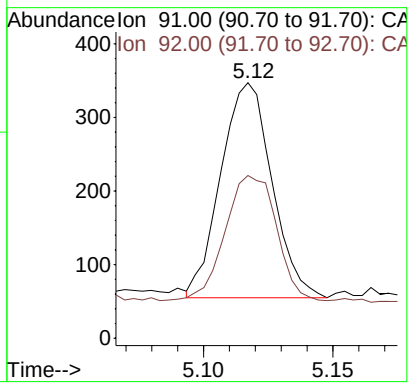


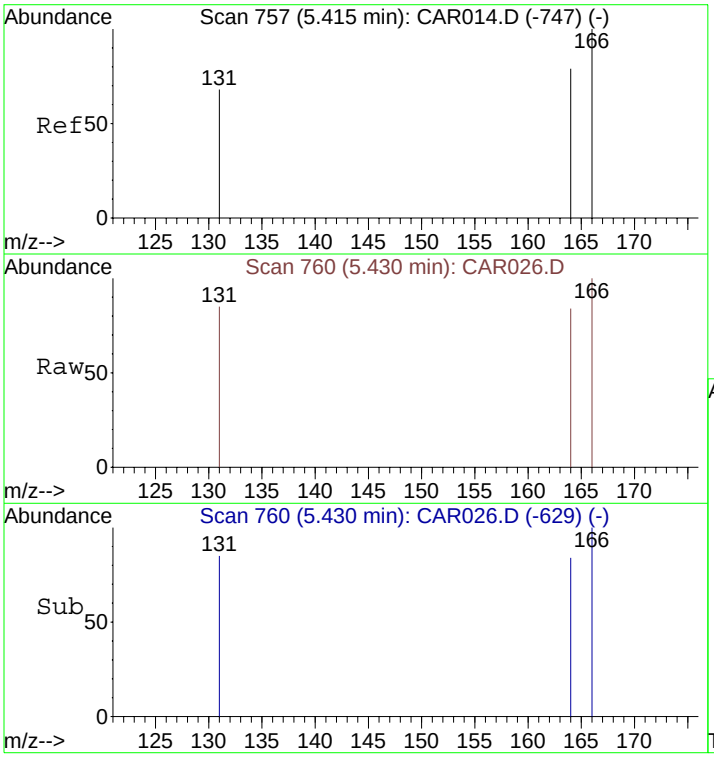


#13
Toluene
Concen: 1.02 ppbv
RT: 5.12 min Scan# 680
Delta R.T. 0.01 min
Lab File: CAR026.D
Acq: 16 Sep 2008 10:50

Tgt Ion: 91 Resp: 402

Ion	Ratio	Lower	Upper
91	100		
92	58.0	48.2	72.2

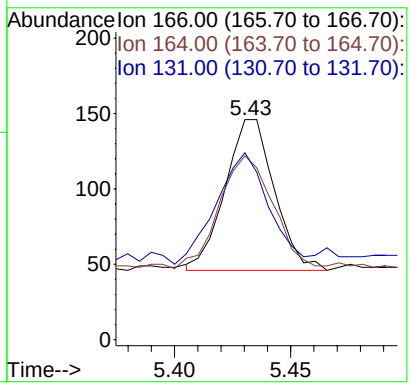




#14
Tetrachloroethene
Concen: 0.63 ppbv
RT: 5.43 min Scan# 760
Delta R.T. 0.02 min
Lab File: CAR026.D
Acq: 16 Sep 2008 10:50

Tgt Ion:166 Resp: 148

Ion	Ratio	Lower	Upper
166	100		
164	81.8	63.1	94.7
131	79.1	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR027.D Vial: 1
Acq On : 16 Sep 2008 11:02 Operator: dlm
Sample : 51358\G2-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 08:10:06 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 06:10:49 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	2027	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	6777	10.00 ppbv	0.01
12) Chlorobenzene-d5	5.83	117	6563	10.00 ppbv	0.03

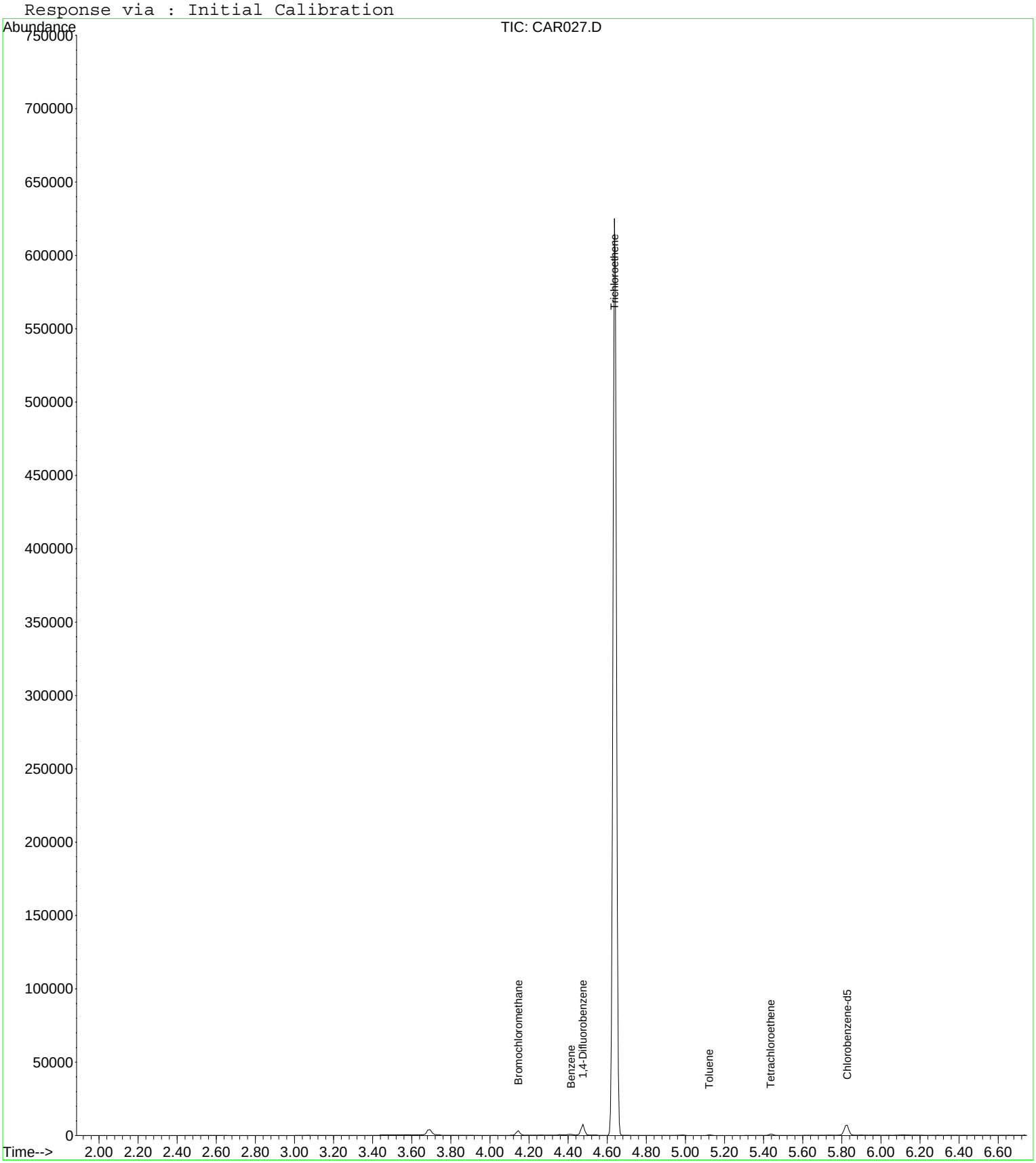
Target Compounds					Qvalue
10) Benzene	4.42	78	603m	1.46 ppbv	
11) Trichloroethene	4.64	130	277060	1380.58 ppbv	93
13) Toluene	5.12	91	328	0.82 ppbv	98
14) Tetrachloroethene	5.44	166	538	2.24 ppbv	96

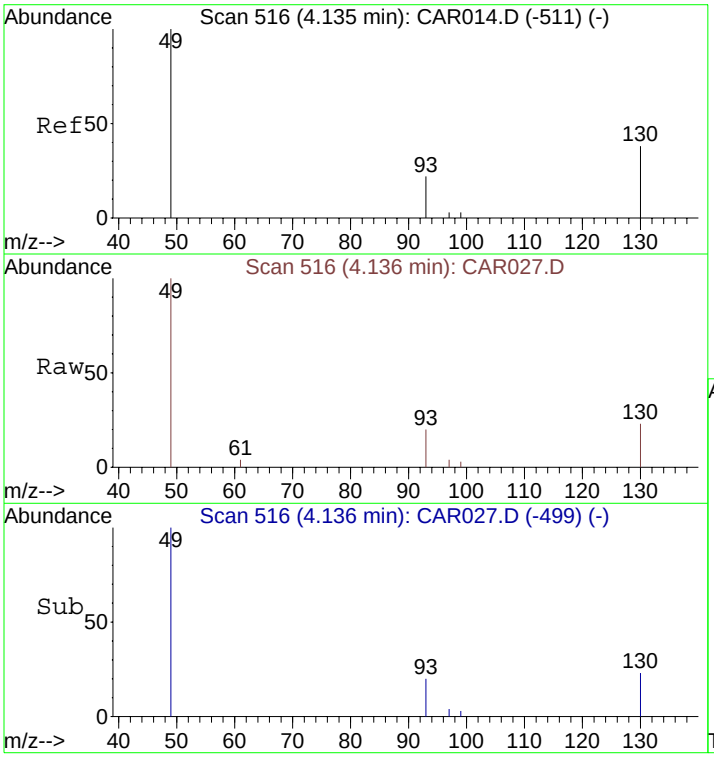
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR027.D Vial: 1
Acq On : 16 Sep 2008 11:02 Operator: dlm
Sample : 51358\G2-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 11:07 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 10:37:21 2008
Response via : Initial Calibration

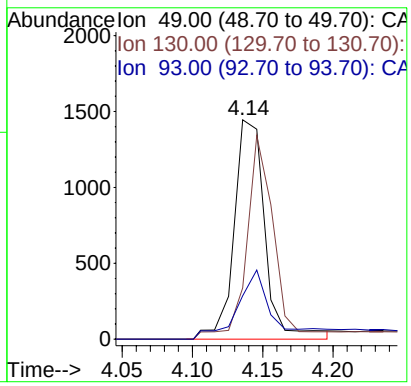


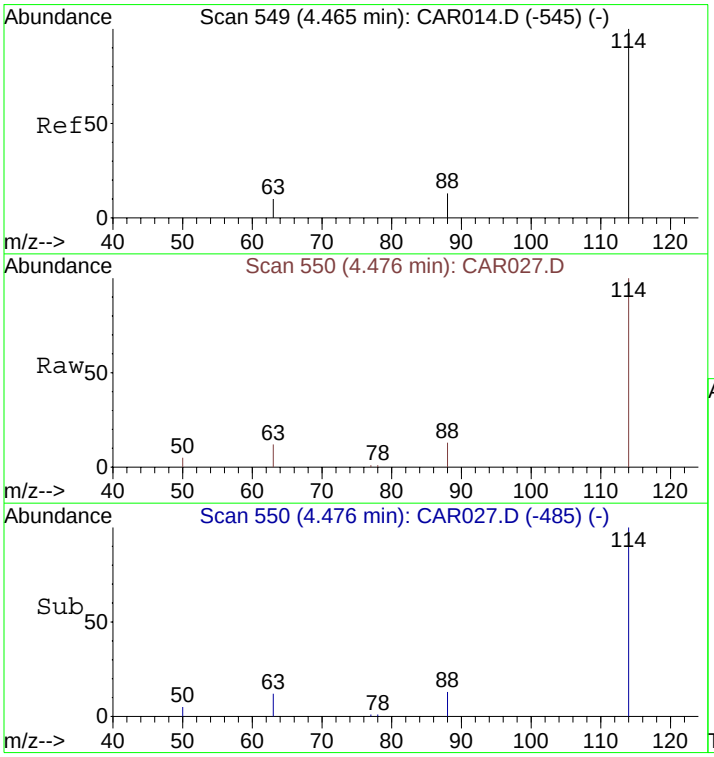


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR027.D
Acq: 16 Sep 2008 11:02

Tgt Ion: 49 Resp: 2027

Ion	Ratio	Lower	Upper
49	100		
130	79.3	65.1	97.7
93	32.3	33.8	50.6#

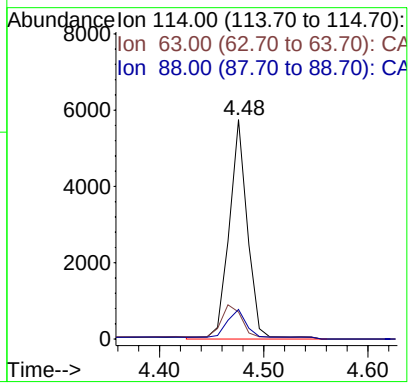


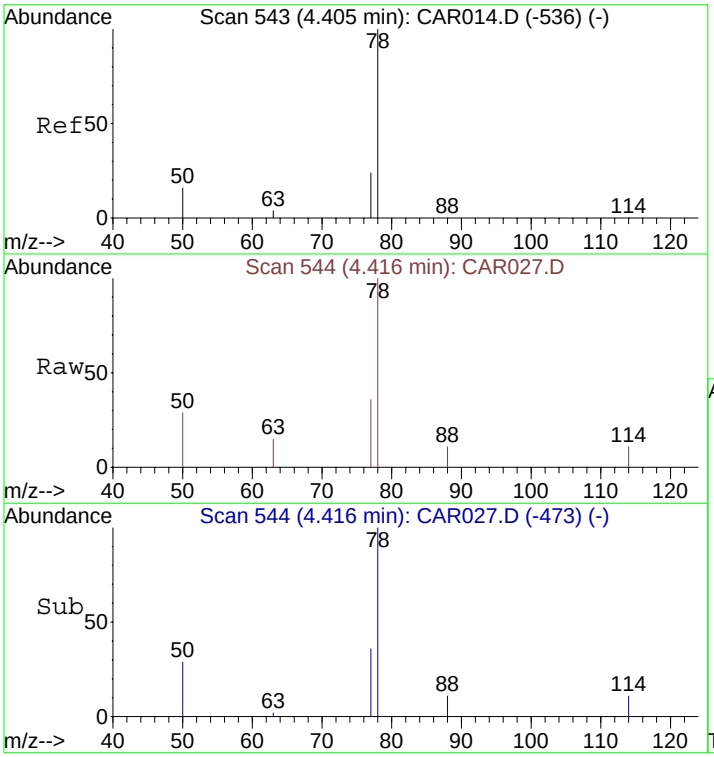


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR027.D
Acq: 16 Sep 2008 11:02

Tgt Ion:114 Resp: 6777

Ion	Ratio	Lower	Upper
114	100		
63	20.7	15.8	23.8
88	13.9	12.2	18.2

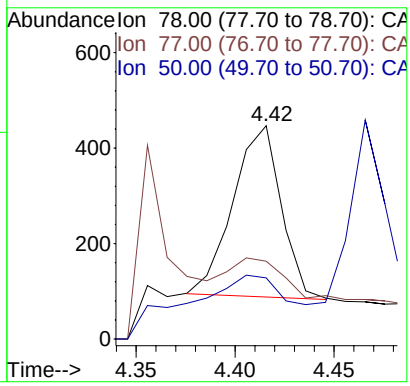


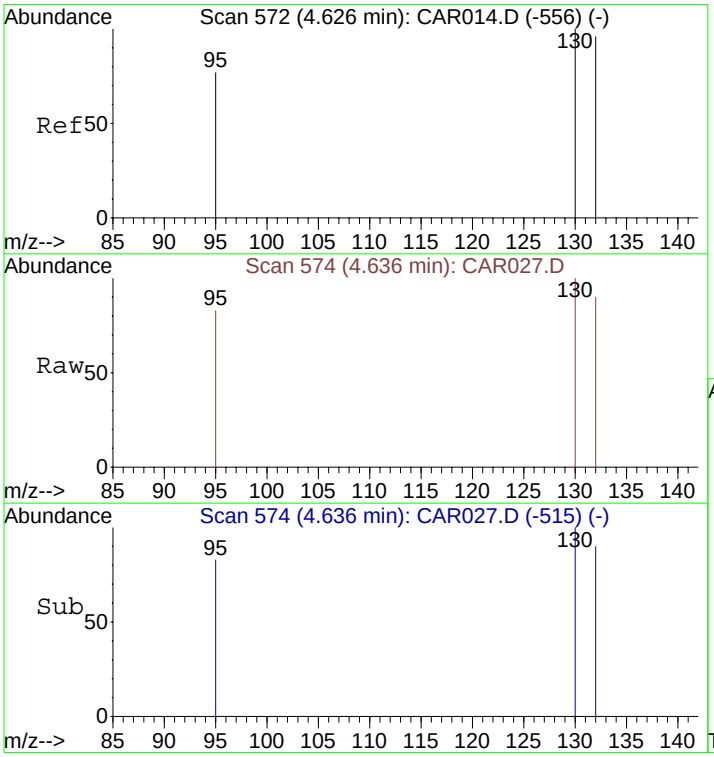


#10
Benzene
Concen: 1.46 ppbv m
RT: 4.42 min Scan# 544
Delta R.T. 0.01 min
Lab File: CAR027.D
Acq: 16 Sep 2008 11:02

Tgt Ion: 78 Resp: 603

Ion	Ratio	Lower	Upper
78	100		
77	16.1	18.6	28.0#
50	16.7	16.2	24.4

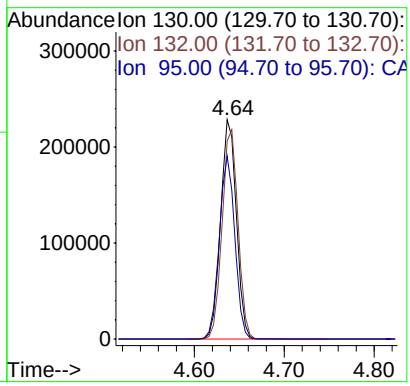


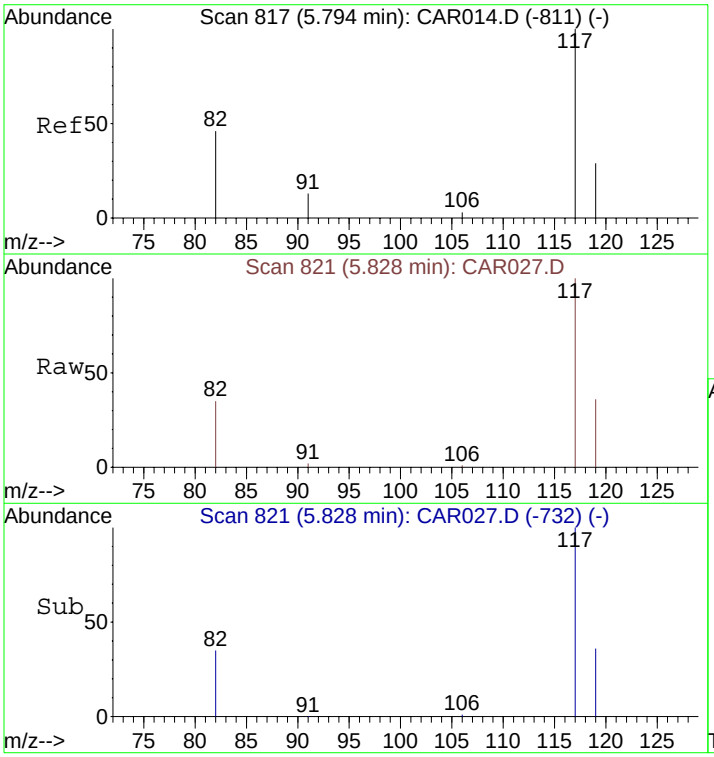


#11
Trichloroethene
Concen: 1380.58 ppbv
RT: 4.64 min Scan# 574
Delta R.T. 0.01 min
Lab File: CAR027.D
Acq: 16 Sep 2008 11:02

Tgt Ion:130 Resp: 277060

Ion	Ratio	Lower	Upper
130	100		
132	96.5	73.8	110.6
95	82.2	72.5	108.7

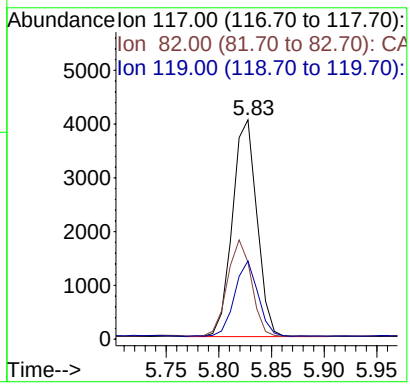


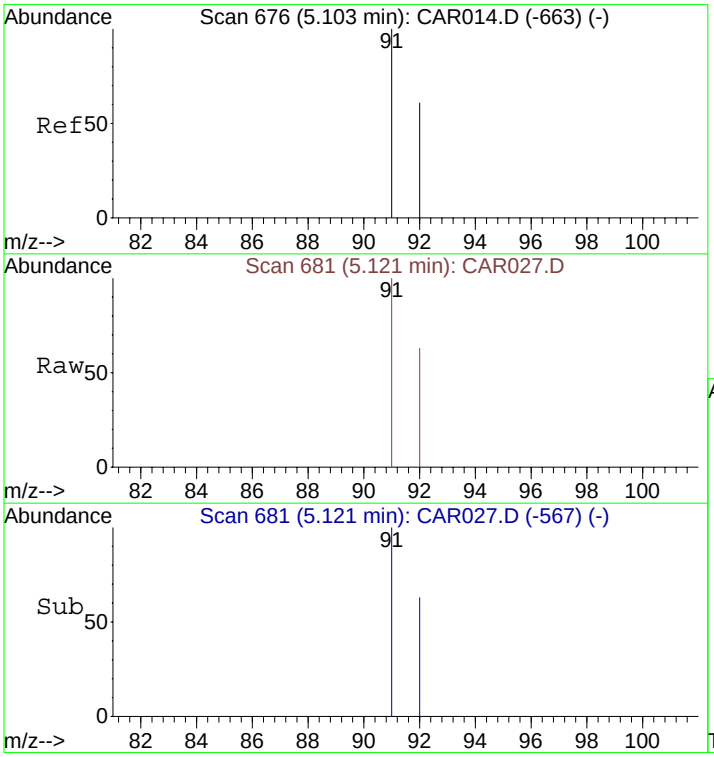


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.83 min Scan# 821
Delta R.T. 0.03 min
Lab File: CAR027.D
Acq: 16 Sep 2008 11:02

Tgt Ion:117 Resp: 6563

Ion	Ratio	Lower	Upper
117	100		
82	43.3	38.3	57.5
119	32.9	26.0	39.0

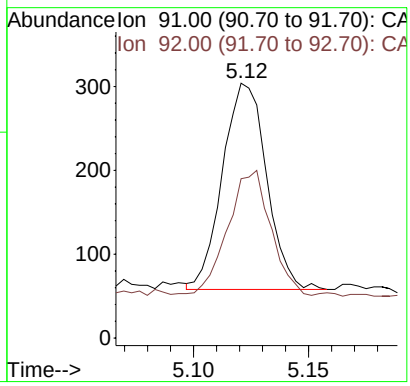


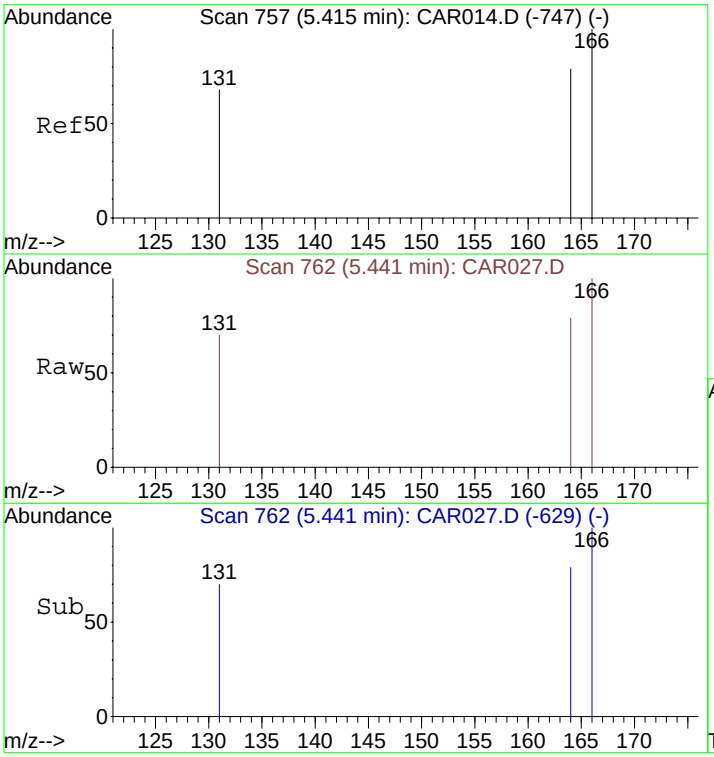


#13
Toluene
Concen: 0.82 ppbv
RT: 5.12 min Scan# 681
Delta R.T. 0.02 min
Lab File: CAR027.D
Acq: 16 Sep 2008 11:02

Tgt Ion: 91 Resp: 328

Ion	Ratio	Lower	Upper
91	100		
92	58.8	48.2	72.2

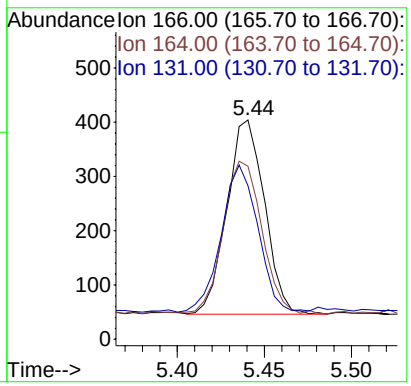




#14
Tetrachloroethene
Concen: 2.24 ppbv
RT: 5.44 min Scan# 762
Delta R.T. 0.03 min
Lab File: CAR027.D
Acq: 16 Sep 2008 11:02

Tgt Ion:166 Resp: 538

Ion	Ratio	Lower	Upper
166	100		
164	80.9	63.1	94.7
131	73.8	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR028.D Vial: 1
Acq On : 16 Sep 2008 11:13 Operator: dlm
Sample : 51359\F1-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 08:20:57 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 06:10:49 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1969	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	6861	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.80	117	6515	10.00 ppbv	0.00

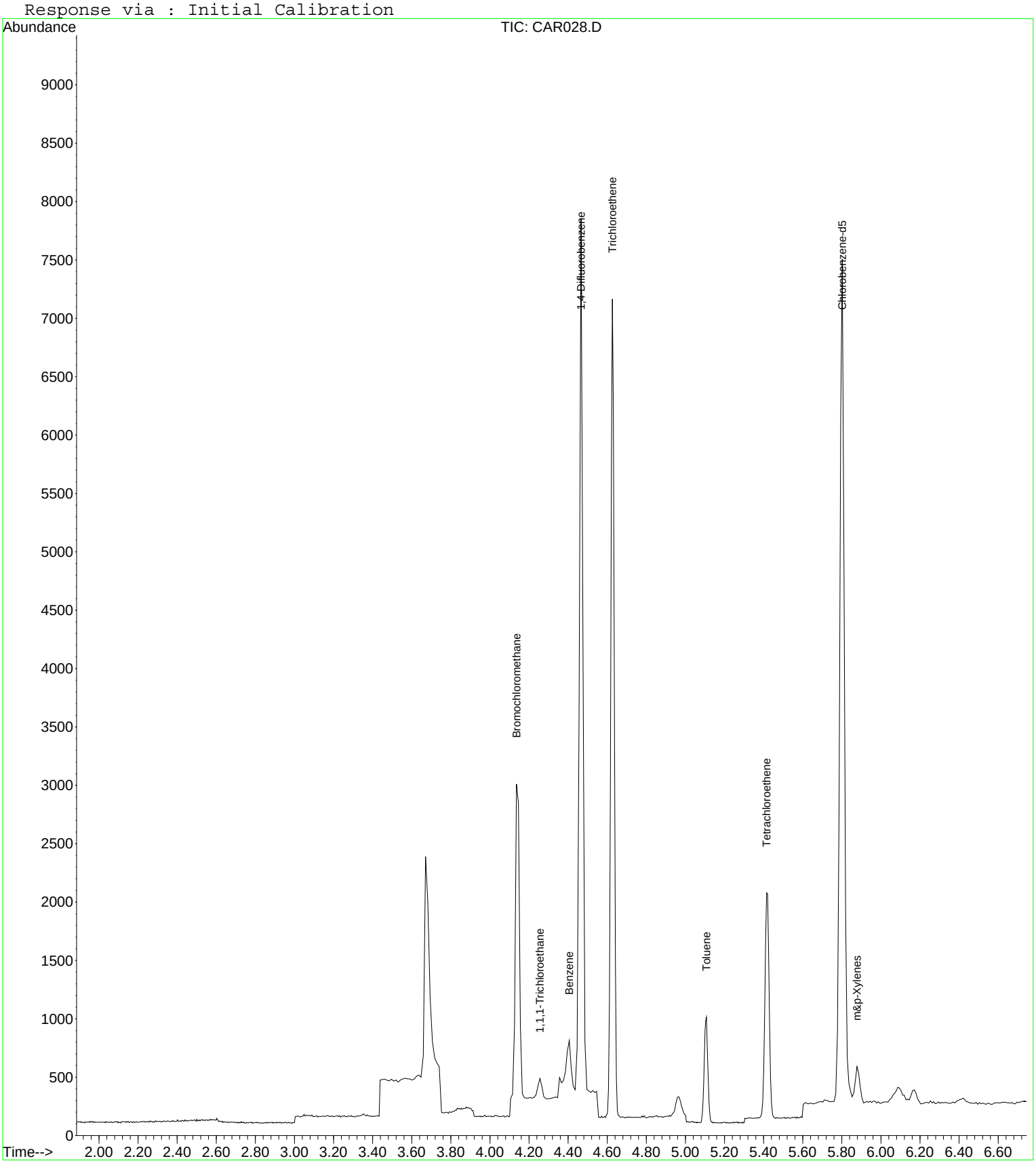
Target Compounds					Qvalue
8) 1,1,1-Trichloroethane	4.26	97	144m	0.59 ppbv	
10) Benzene	4.41	78	507m	1.22 ppbv	
11) Trichloroethene	4.63	130	3073	15.13 ppbv	93
13) Toluene	5.11	91	735	1.86 ppbv	99
14) Tetrachloroethene	5.42	166	1244	5.23 ppbv	92
16) m&p-Xylenes	5.88	91	333	1.03 ppbv	88

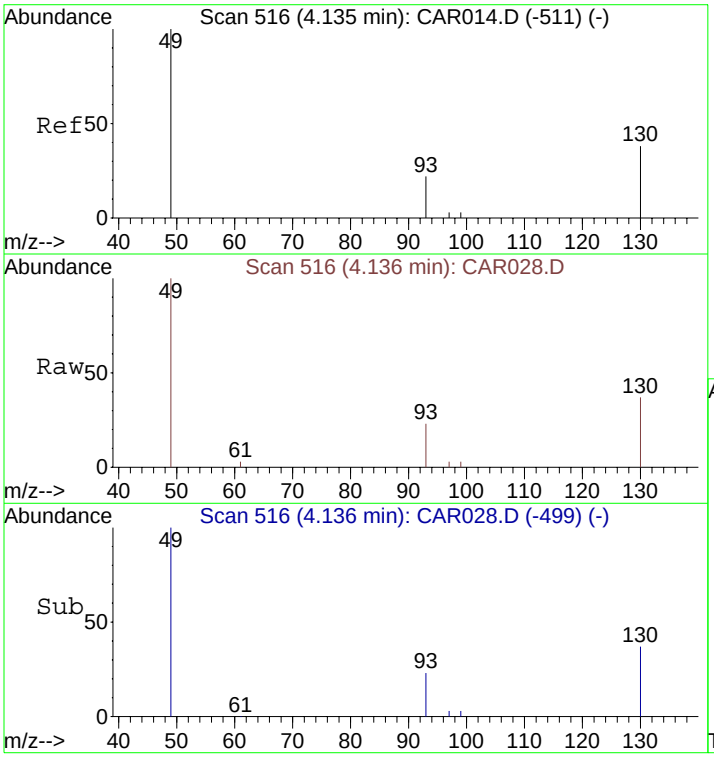
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR028.D Vial: 1
Acq On : 16 Sep 2008 11:13 Operator: dlm
Sample : 51359\F1-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 11:08 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 10:37:21 2008
Response via : Initial Calibration

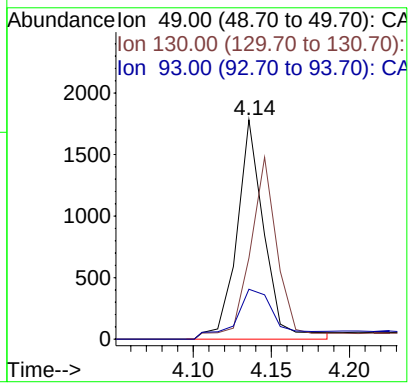


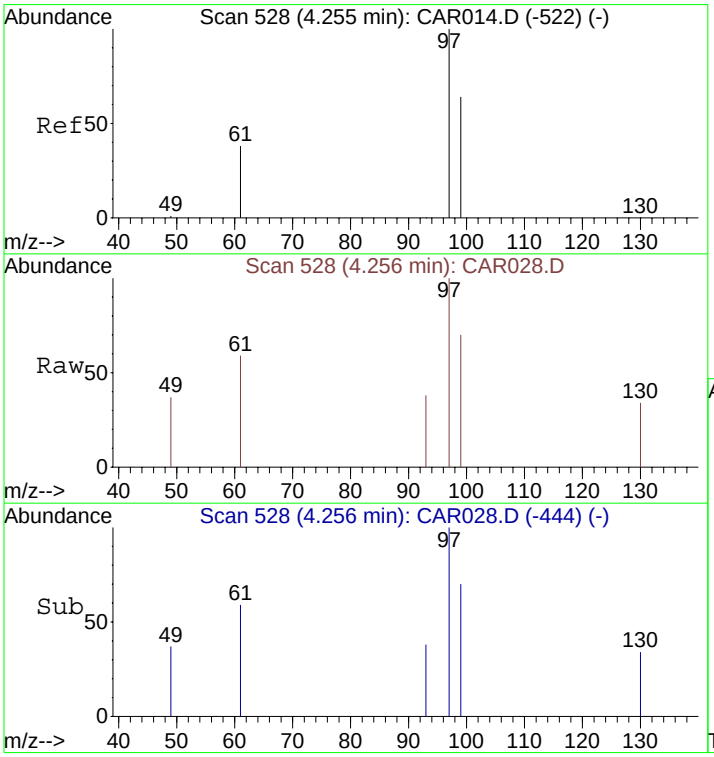


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR028.D
Acq: 16 Sep 2008 11:13

Tgt Ion: 49 Resp: 1969

Ion	Ratio	Lower	Upper
49	100		
130	83.8	65.1	97.7
93	33.1	33.8	50.6#

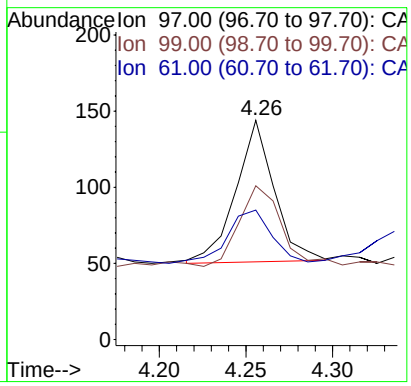


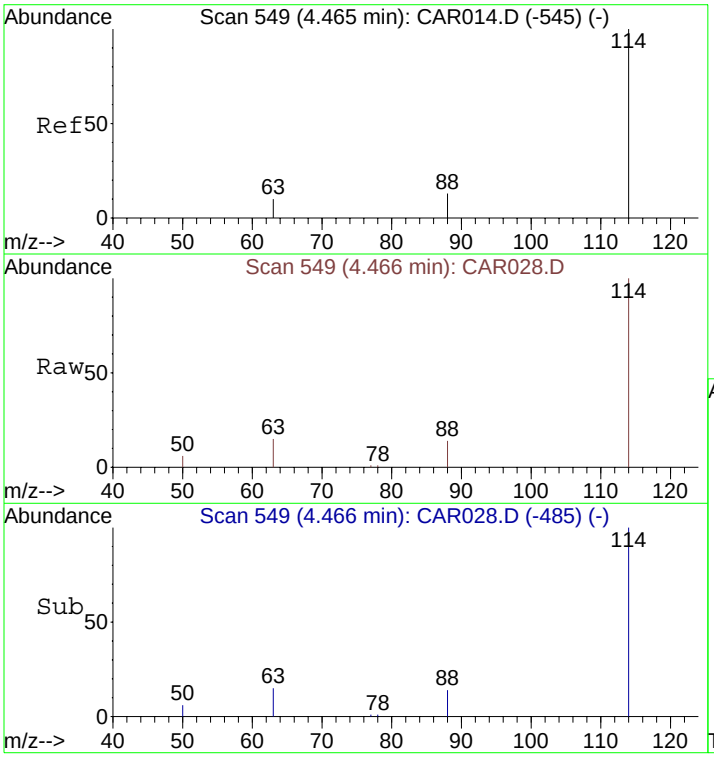


#8
1,1,1-Trichloroethane
Concen: 0.59 ppbv m
RT: 4.26 min Scan# 528
Delta R.T. 0.00 min
Lab File: CAR028.D
Acq: 16 Sep 2008 11:13

Tgt Ion: 97 Resp: 144

Ion	Ratio	Lower	Upper
97	100		
99	56.9	51.8	77.8
61	40.3	32.1	48.1

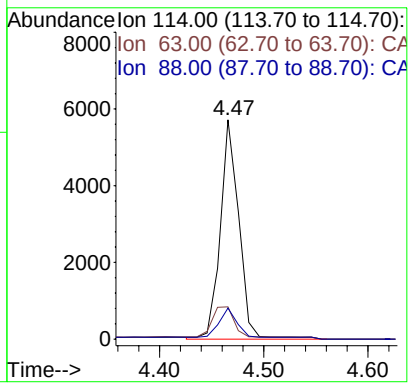


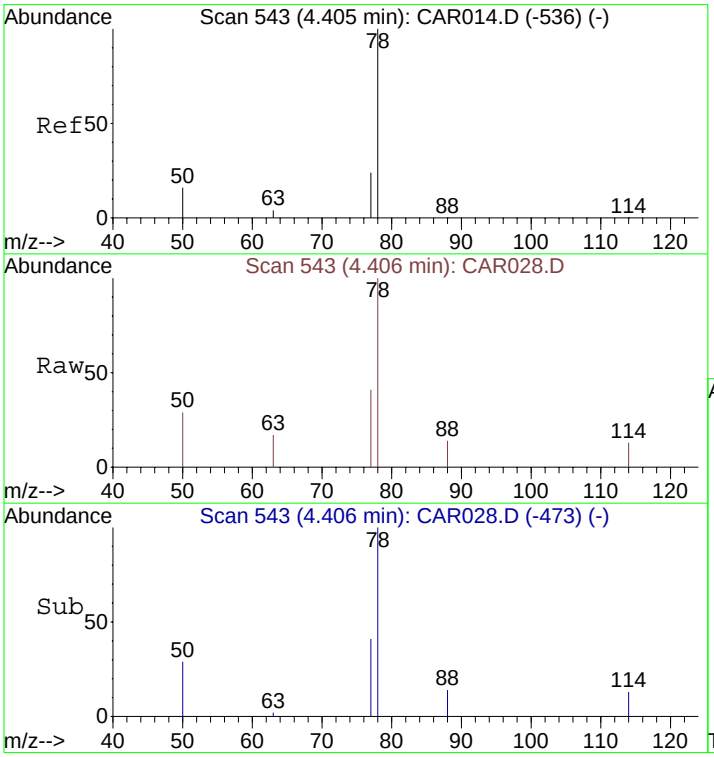


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. 0.00 min
Lab File: CAR028.D
Acq: 16 Sep 2008 11:13

Tgt Ion:114 Resp: 6861

Ion	Ratio	Lower	Upper
114	100		
63	21.4	15.8	23.8
88	13.4	12.2	18.2

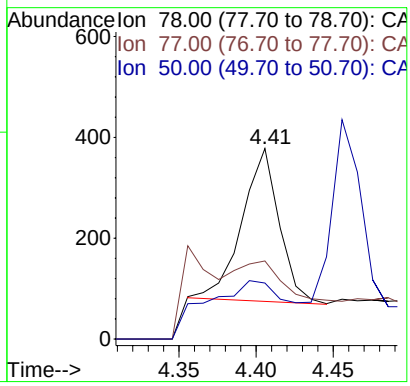


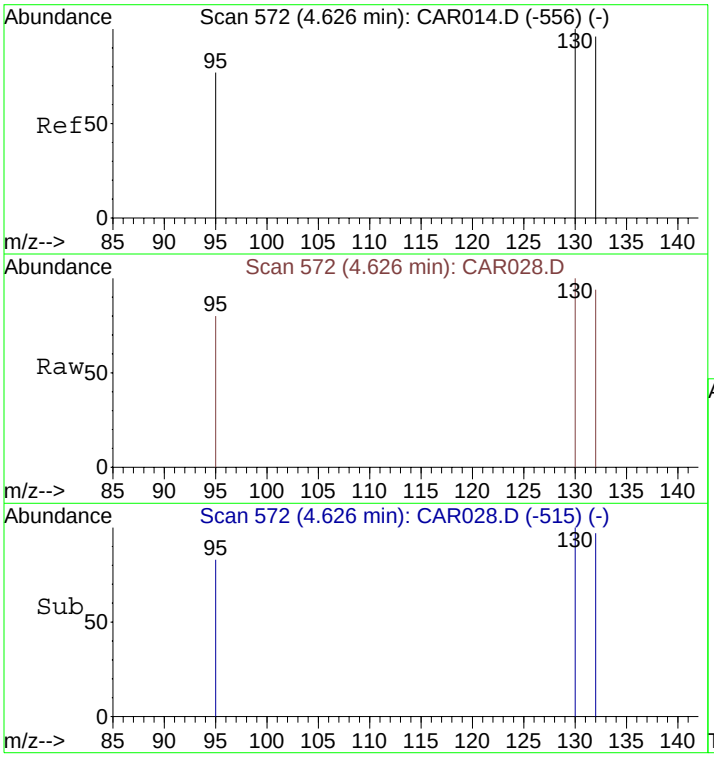


#10
Benzene
Concen: 1.22 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR028.D
Acq: 16 Sep 2008 11:13

Tgt Ion: 78 Resp: 507

Ion	Ratio	Lower	Upper
78	100		
77	17.2	18.6	28.0#
50	9.9	16.2	24.4#

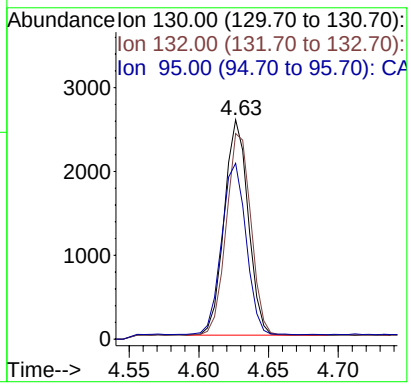


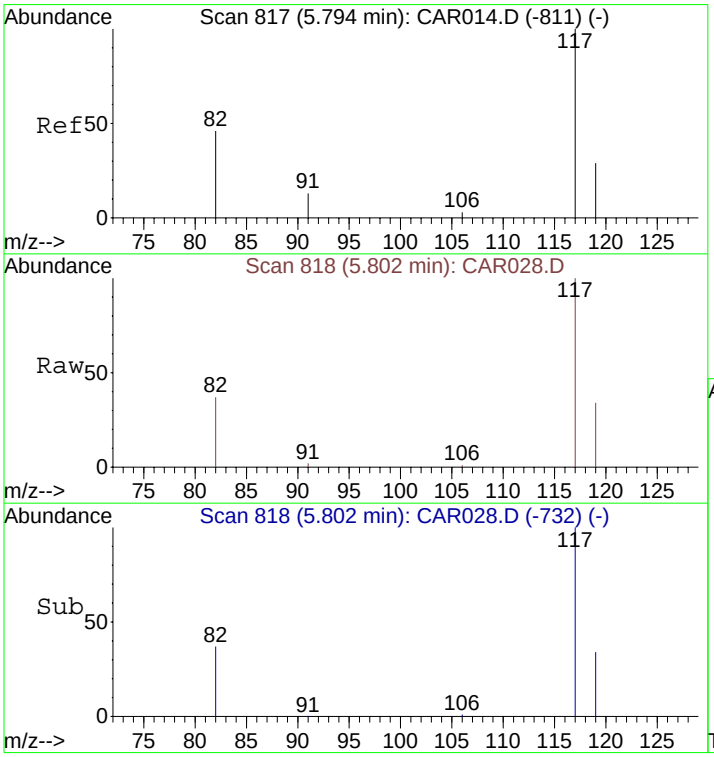


#11
Trichloroethene
Concen: 15.13 ppbv
RT: 4.63 min Scan# 572
Delta R.T. 0.00 min
Lab File: CAR028.D
Acq: 16 Sep 2008 11:13

Tgt Ion:130 Resp: 3073

Ion	Ratio	Lower	Upper
130	100		
132	98.2	73.8	110.6
95	84.2	72.5	108.7

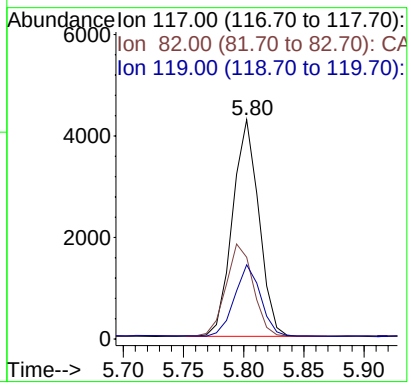


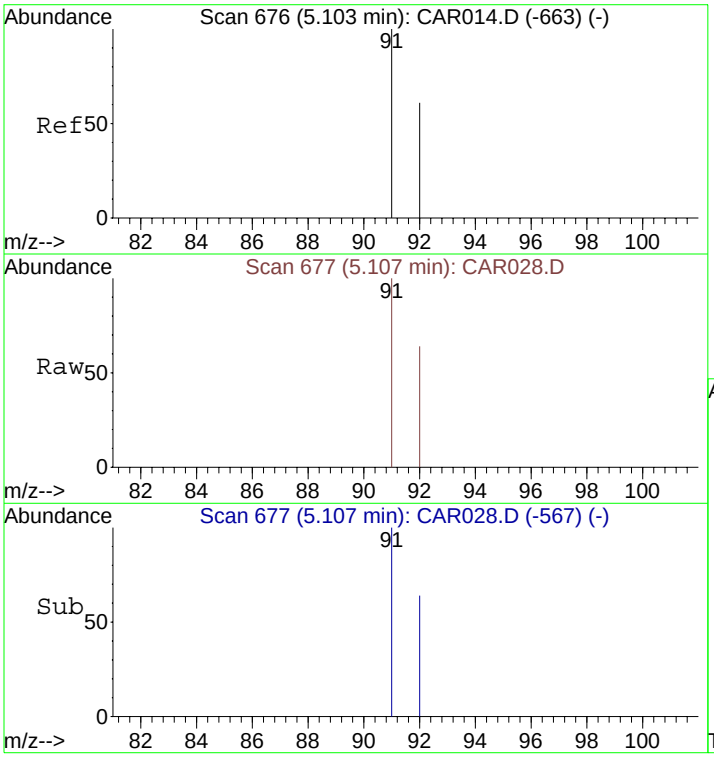


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.80 min Scan# 818
Delta R.T. 0.01 min
Lab File: CAR028.D
Acq: 16 Sep 2008 11:13

Tgt Ion:117 Resp: 6515

Ion	Ratio	Lower	Upper
117	100		
82	43.7	38.3	57.5
119	32.6	26.0	39.0

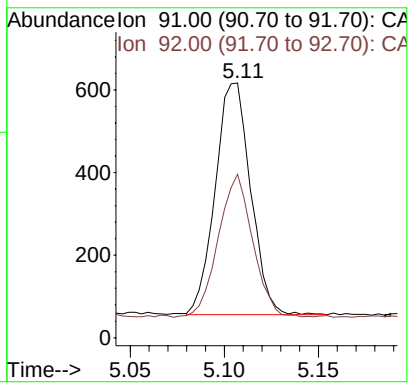


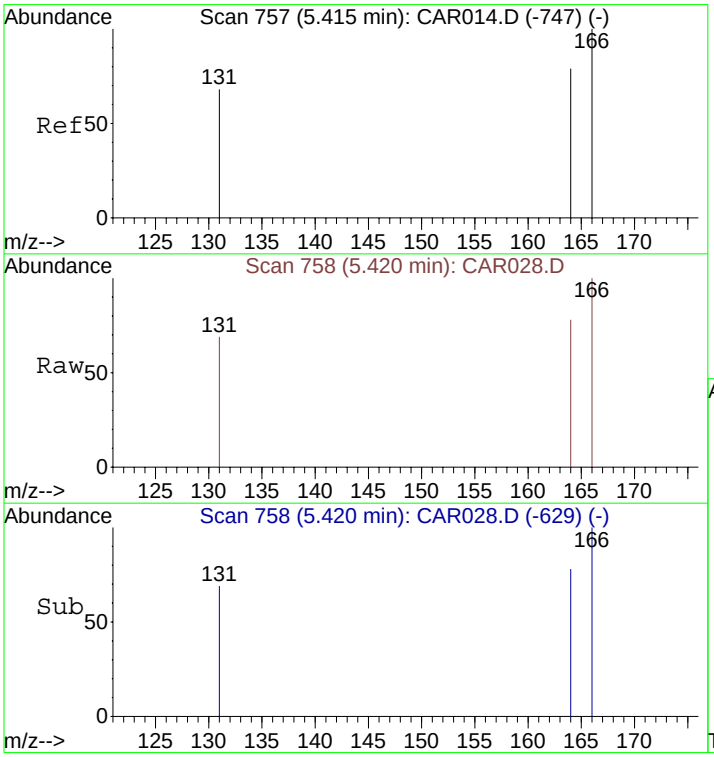


#13
Toluene
Concen: 1.86 ppbv
RT: 5.11 min Scan# 677
Delta R.T. 0.00 min
Lab File: CAR028.D
Acq: 16 Sep 2008 11:13

Tgt Ion: 91 Resp: 735

Ion	Ratio	Lower	Upper
91	100		
92	59.2	48.2	72.2

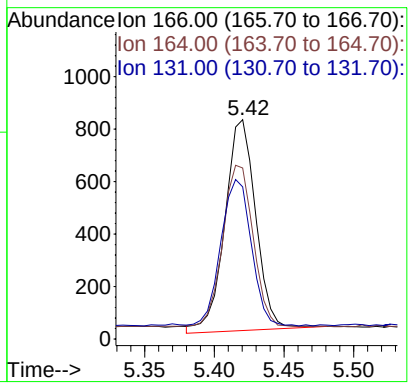




#14
Tetrachloroethene
Concen: 5.23 ppbv
RT: 5.42 min Scan# 758
Delta R.T. 0.01 min
Lab File: CAR028.D
Acq: 16 Sep 2008 11:13

Tgt Ion:166 Resp: 1244

Ion	Ratio	Lower	Upper
166	100		
164	74.6	63.1	94.7
131	68.2	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR030.D Vial: 1
Acq On : 16 Sep 2008 11:36 Operator: dlm
Sample : 51360\F2-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 11:46:01 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 06:10:49 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1976	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	6690	10.00 ppbv	0.01
12) Chlorobenzene-d5	5.82	117	6357	10.00 ppbv	0.03

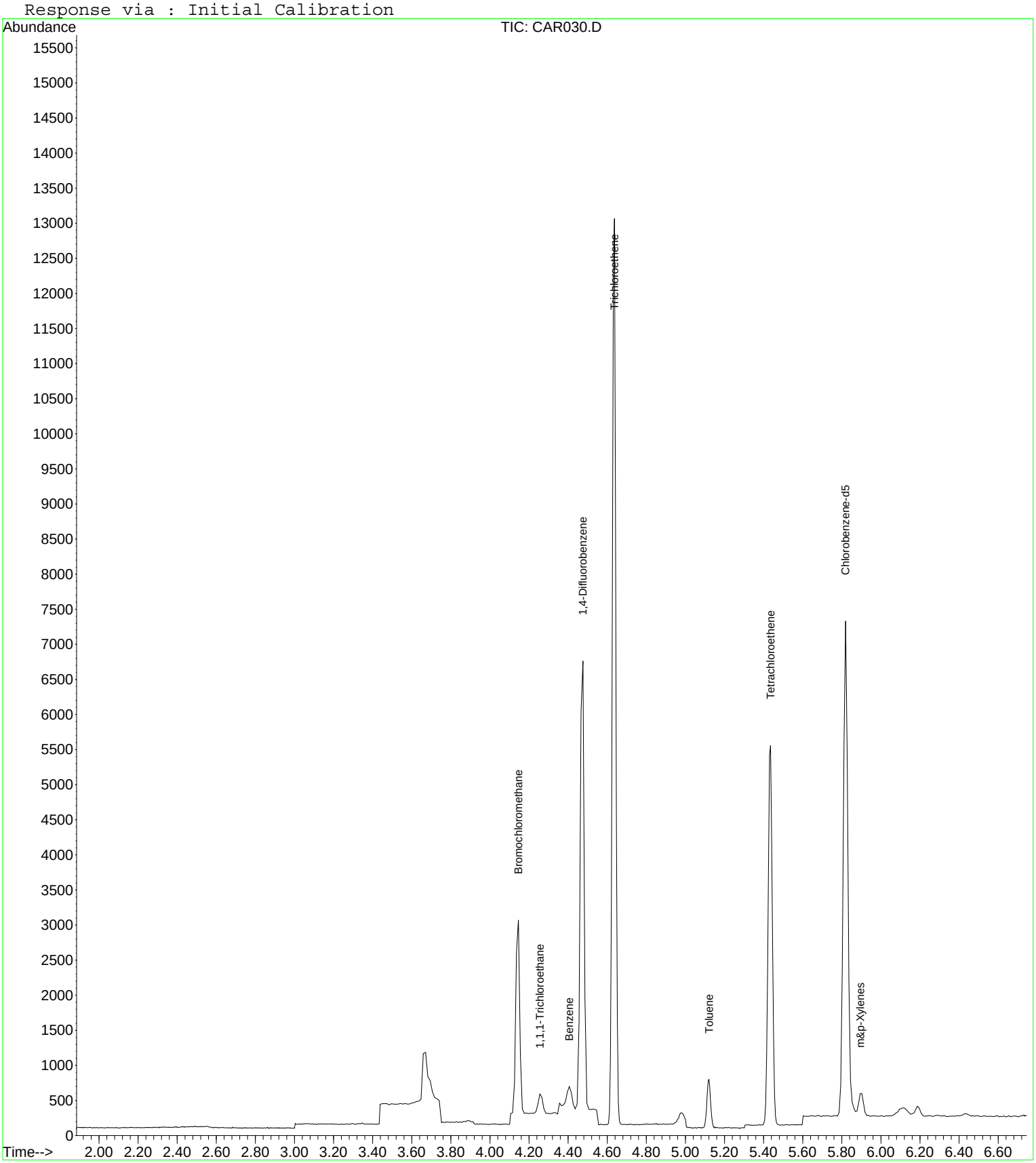
Target Compounds					Qvalue
8) 1,1,1-Trichloroethane	4.26	97	222	0.90 ppbv	93
10) Benzene	4.41	78	409m	1.01 ppbv	
11) Trichloroethene	4.64	130	5668	28.61 ppbv	94
13) Toluene	5.12	91	570	1.48 ppbv	100
14) Tetrachloroethene	5.44	166	3247	13.98 ppbv	96
16) m&p-Xylenes	5.90	91	365	1.16 ppbv	91

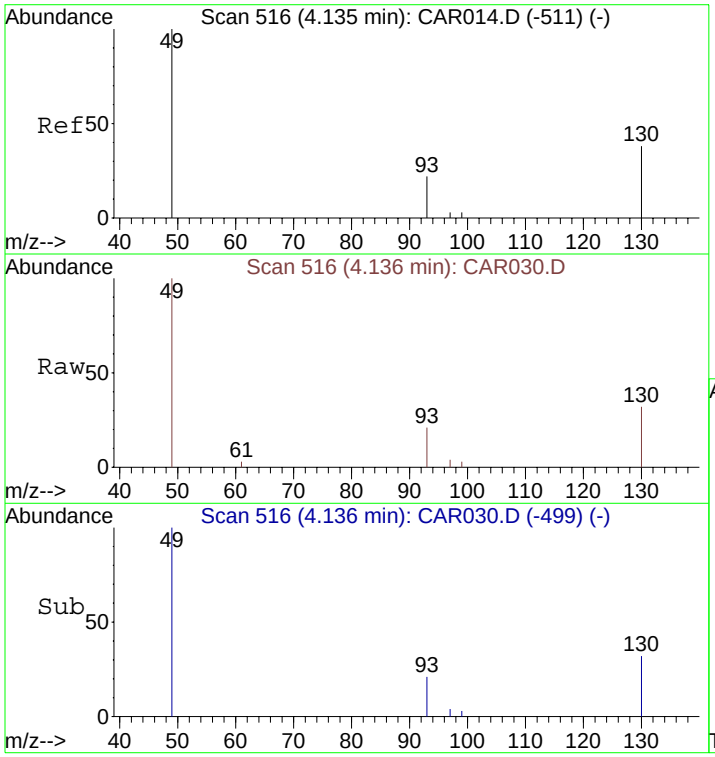
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR030.D Vial: 1
Acq On : 16 Sep 2008 11:36 Operator: dlm
Sample : 51360\F2-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 11:11 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 10:37:21 2008
Response via : Initial Calibration

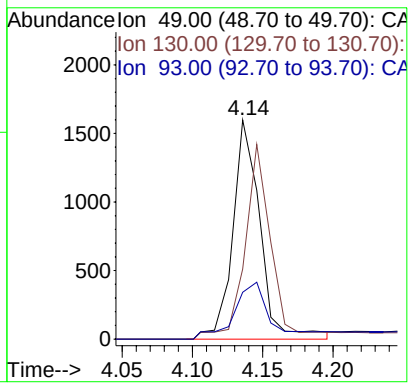


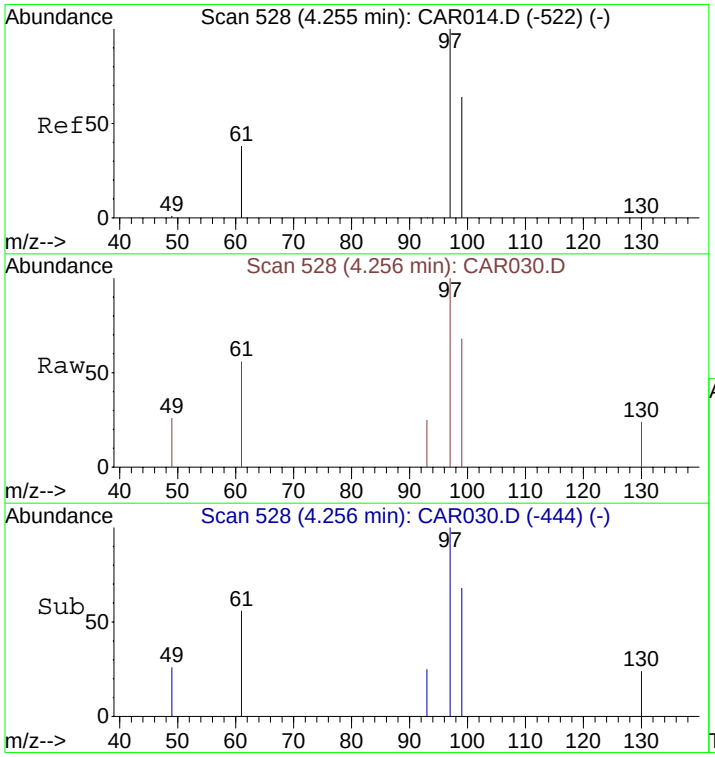


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR030.D
Acq: 16 Sep 2008 11:36

Tgt Ion: 49 Resp: 1976

Ion	Ratio	Lower	Upper
49	100		
130	84.7	65.1	97.7
93	33.9	33.8	50.6

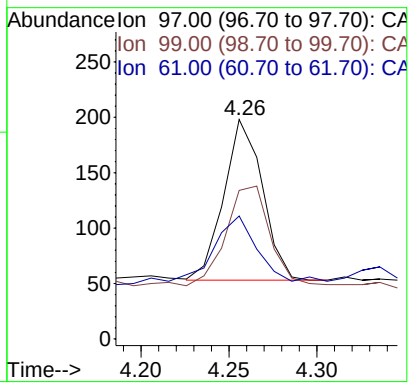


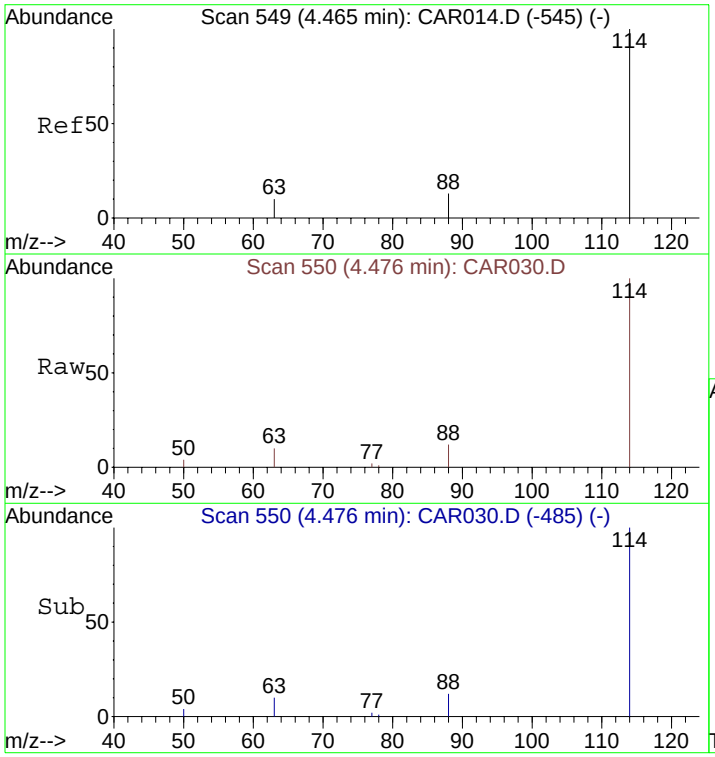


#8
1,1,1-Trichloroethane
Concen: 0.90 ppbv
RT: 4.26 min Scan# 528
Delta R.T. 0.00 min
Lab File: CAR030.D
Acq: 16 Sep 2008 11:36

Tgt Ion: 97 Resp: 222

Ion	Ratio	Lower	Upper
97	100		
99	70.7	51.8	77.8
61	44.1	32.1	48.1

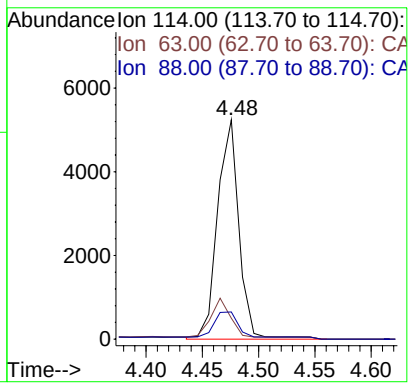


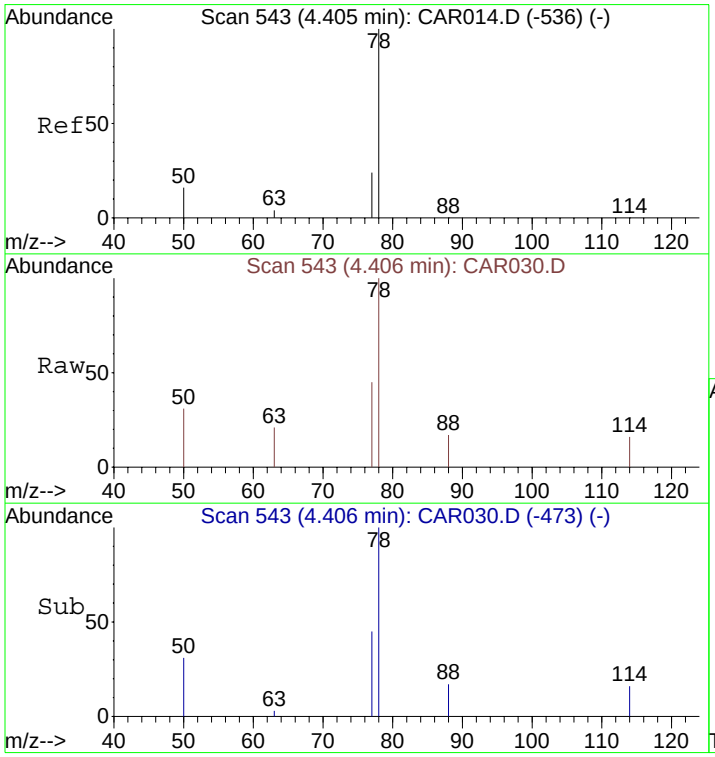


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR030.D
Acq: 16 Sep 2008 11:36

Tgt Ion:114 Resp: 6690

Ion	Ratio	Lower	Upper
114	100		
63	17.2	15.8	23.8
88	13.7	12.2	18.2

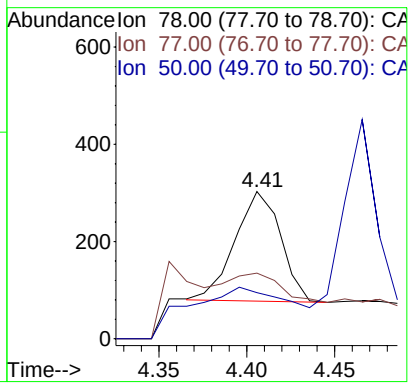


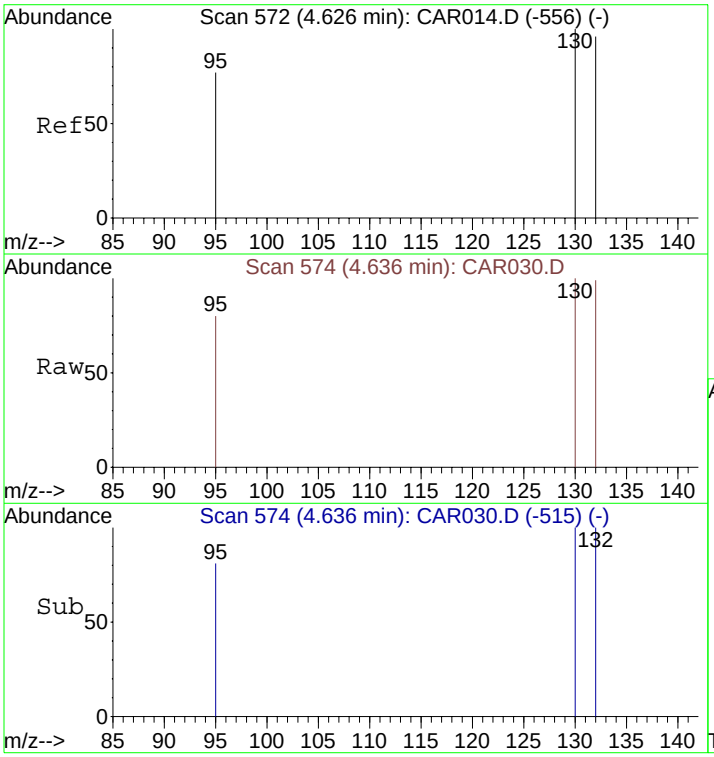


#10
Benzene
Concen: 1.01 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR030.D
Acq: 16 Sep 2008 11:36

Tgt Ion: 78 Resp: 409

Ion	Ratio	Lower	Upper
78	100		
77	16.6	18.6	28.0#
50	18.8	16.2	24.4

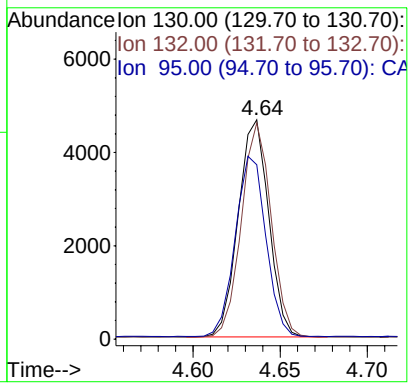


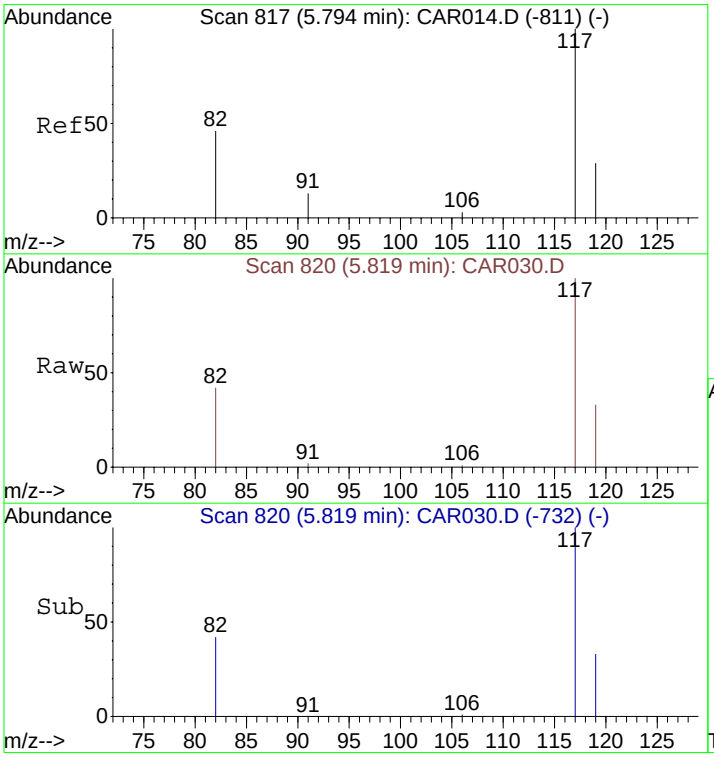


#11
Trichloroethene
Concen: 28.61 ppbv
RT: 4.64 min Scan# 574
Delta R.T. 0.01 min
Lab File: CAR030.D
Acq: 16 Sep 2008 11:36

Tgt Ion:130 Resp: 5668

Ion	Ratio	Lower	Upper
130	100		
132	97.8	73.8	110.6
95	85.0	72.5	108.7

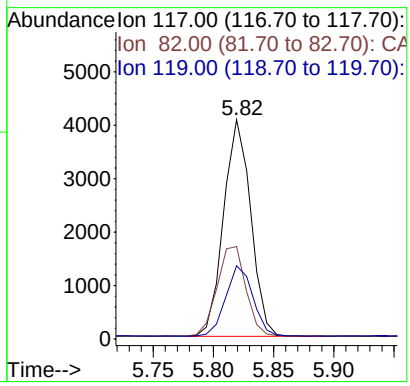


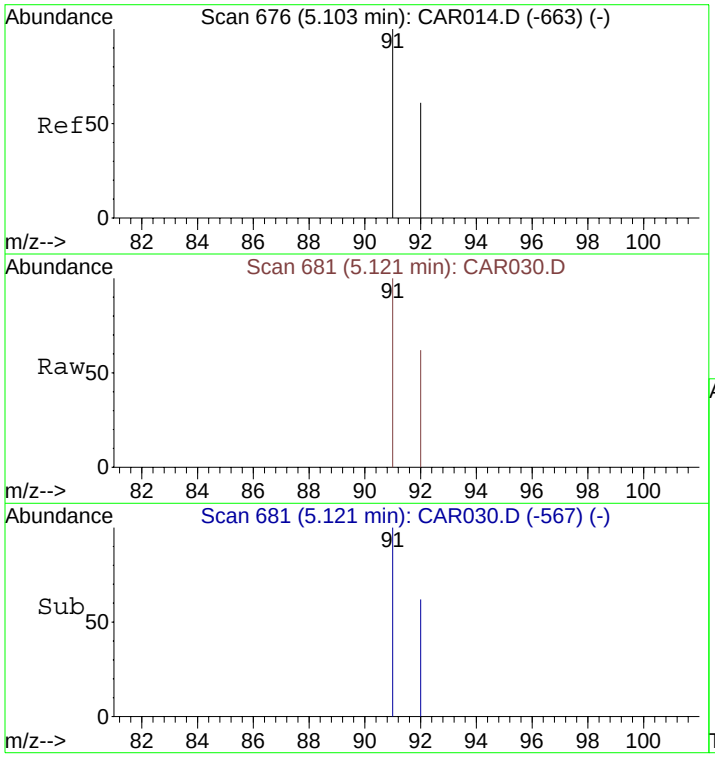


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.82 min Scan# 820
Delta R.T. 0.03 min
Lab File: CAR030.D
Acq: 16 Sep 2008 11:36

Tgt Ion:117 Resp: 6357

Ion	Ratio	Lower	Upper
117	100		
82	43.7	38.3	57.5
119	32.4	26.0	39.0

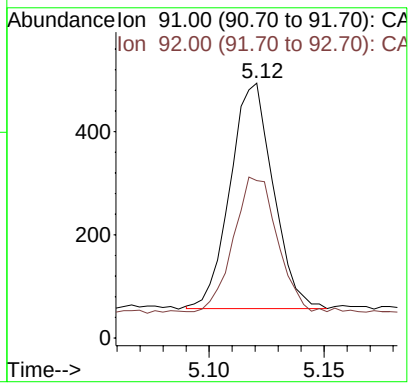


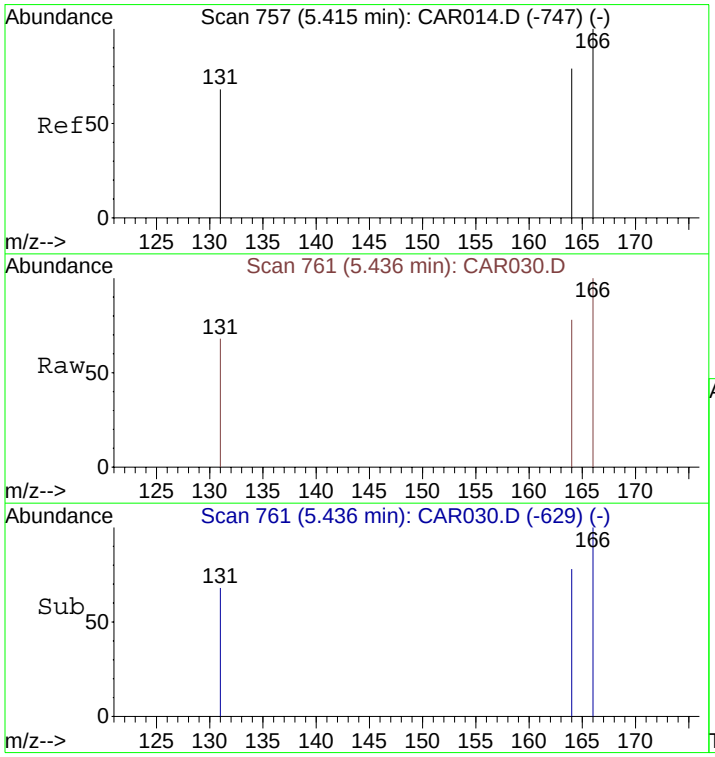


#13
Toluene
Concen: 1.48 ppbv
RT: 5.12 min Scan# 681
Delta R.T. 0.02 min
Lab File: CAR030.D
Acq: 16 Sep 2008 11:36

Tgt Ion: 91 Resp: 570

Ion	Ratio	Lower	Upper
91	100		
92	60.4	48.2	72.2

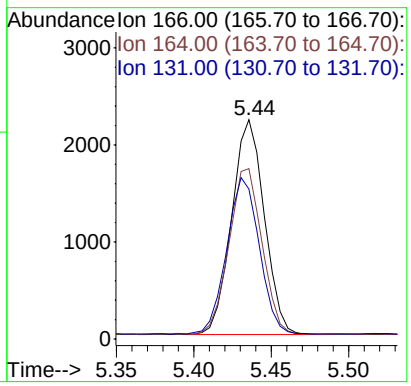


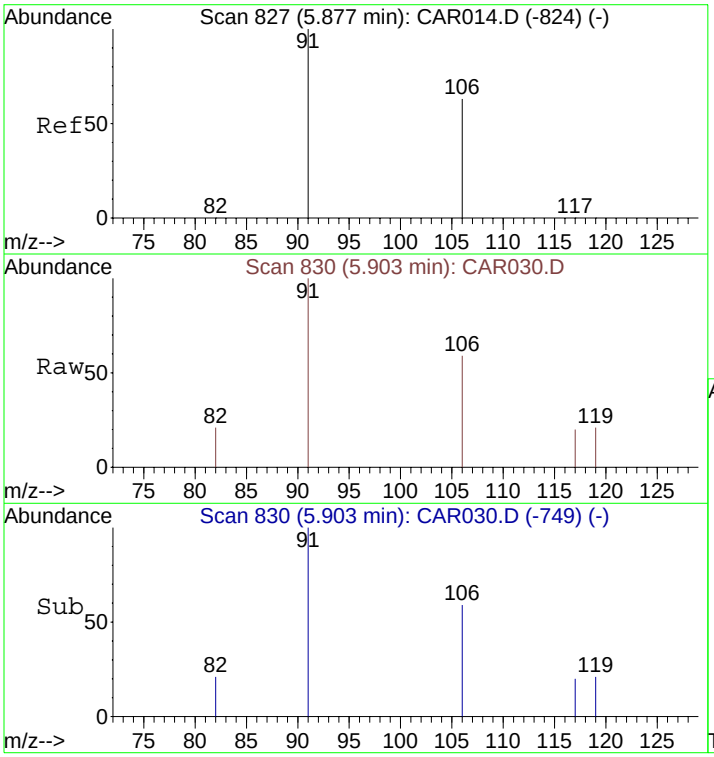


#14
Tetrachloroethene
Concen: 13.98 ppbv
RT: 5.44 min Scan# 761
Delta R.T. 0.02 min
Lab File: CAR030.D
Acq: 16 Sep 2008 11:36

Tgt Ion:166 Resp: 3247

Ion	Ratio	Lower	Upper
166	100		
164	77.8	63.1	94.7
131	72.5	62.9	94.3

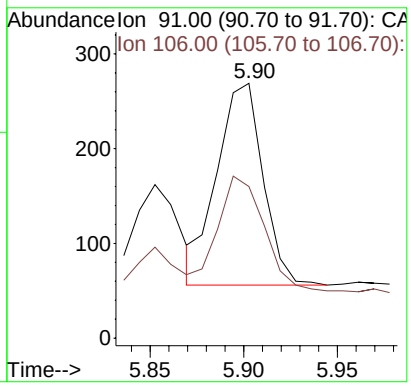




#16
m&p-Xylenes
Concen: 1.16 ppbv
RT: 5.90 min Scan# 830
Delta R.T. 0.03 min
Lab File: CAR030.D
Acq: 16 Sep 2008 11:36

Tgt Ion: 91 Resp: 365

Ion	Ratio	Lower	Upper
91	100		
106	58.4	41.8	62.8



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR032.D Vial: 1
Acq On : 16 Sep 2008 12:01 Operator: dlm
Sample : 51359\F1-SG Rep Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 12:09:02 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 06:10:49 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1804	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	5965	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.81	117	5908	10.00 ppbv	0.02

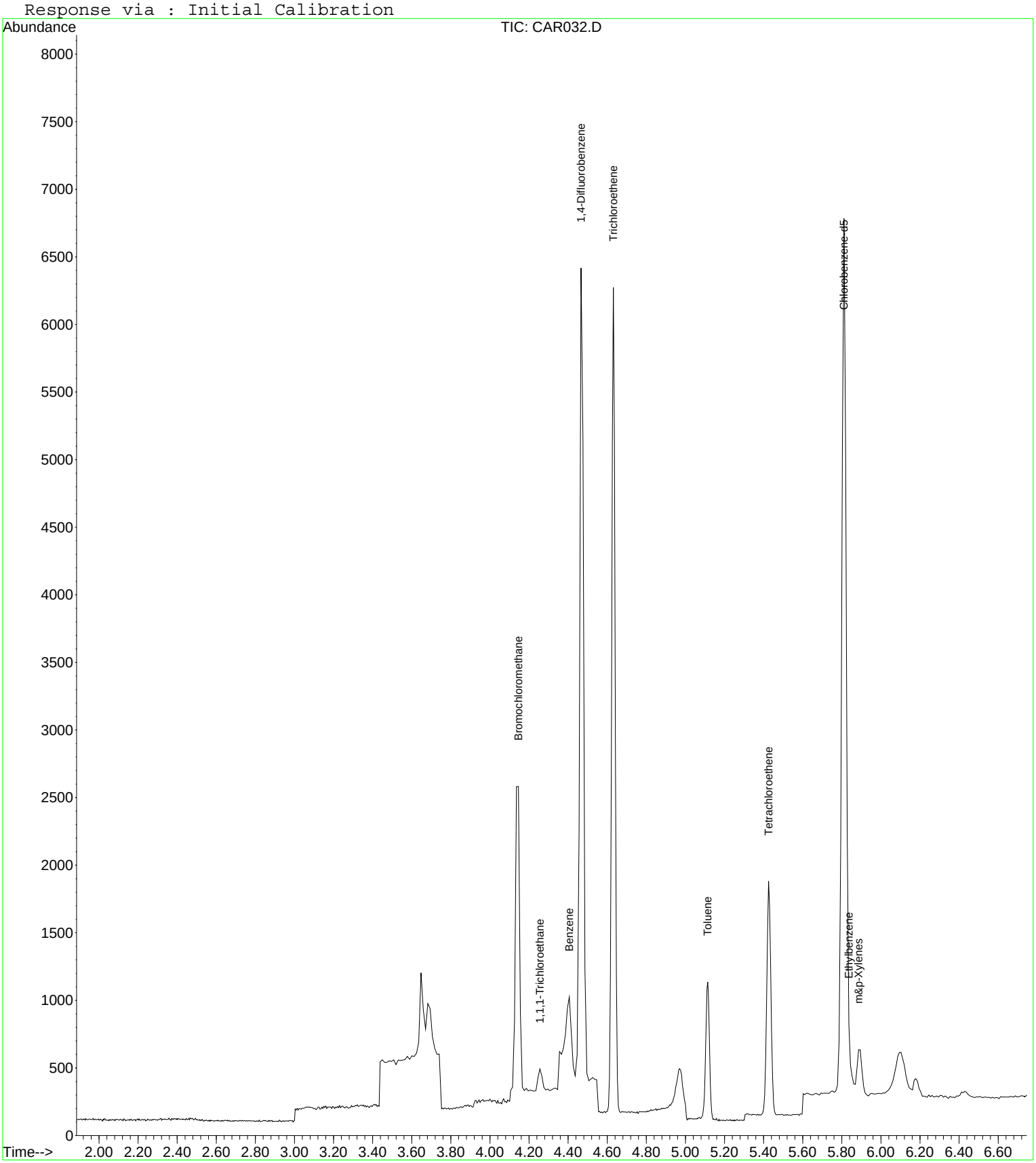
Target Compounds					Qvalue
8) 1,1,1-Trichloroethane	4.26	97	148m	0.66 ppbv	
10) Benzene	4.41	78	706m	1.95 ppbv	
11) Trichloroethene	4.63	130	2614	14.80 ppbv	94
13) Toluene	5.11	91	855	2.38 ppbv	99
14) Tetrachloroethene	5.43	166	1024	4.75 ppbv	94
15) Ethylbenzene	5.84	91	222	0.53 ppbv	99
16) m&p-Xylenes	5.89	91	365	1.25 ppbv	86

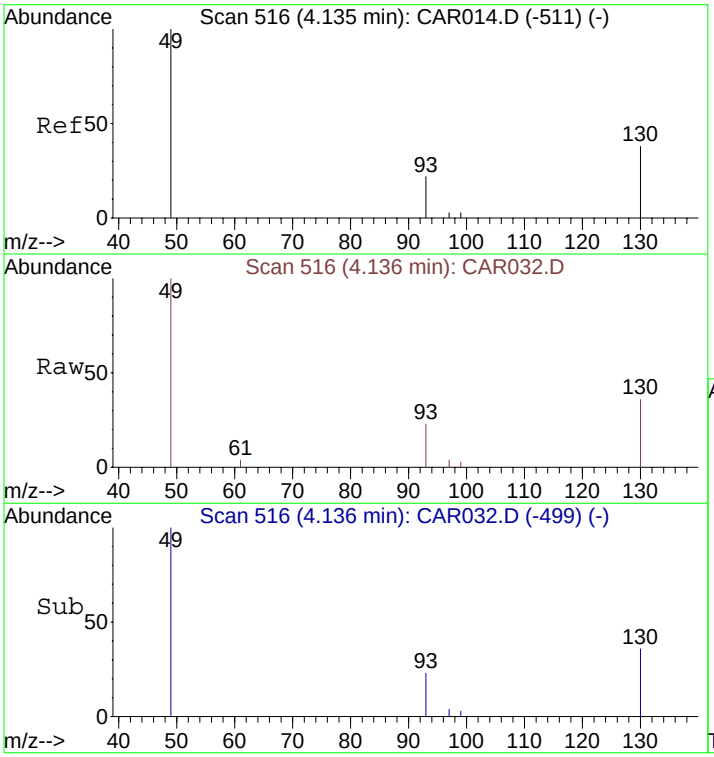
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR032.D Vial: 1
Acq On : 16 Sep 2008 12:01 Operator: dlm
Sample : 51359\F1-SG Rep Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 11:14 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 10:37:21 2008
Response via : Initial Calibration

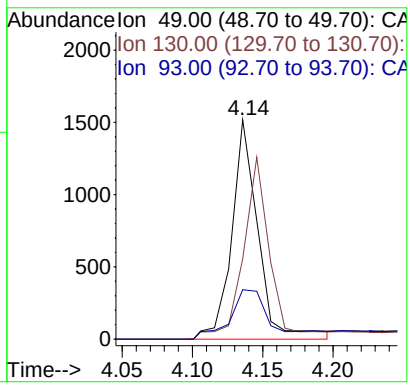


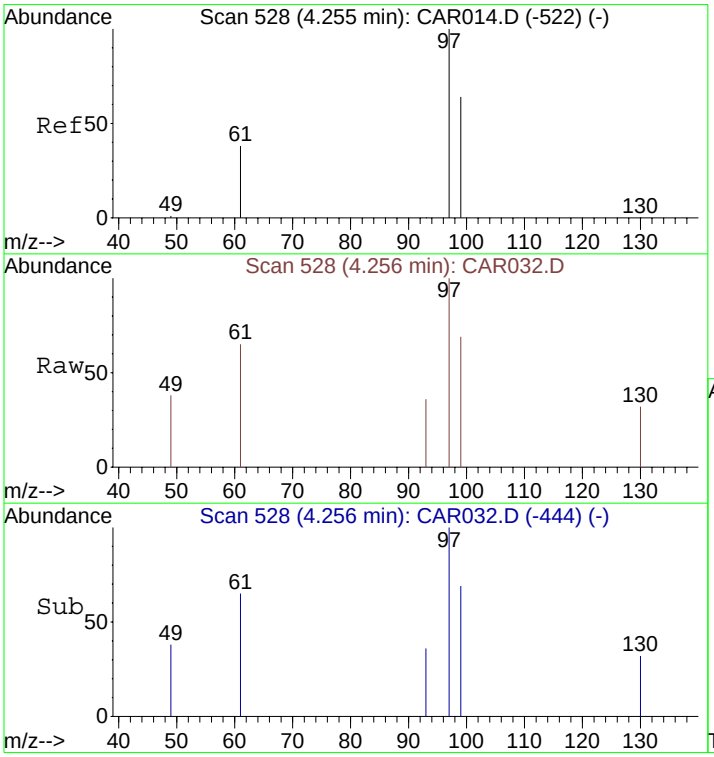


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR032.D
Acq: 16 Sep 2008 12:01

Tgt Ion: 49 Resp: 1804

Ion	Ratio	Lower	Upper
49	100		
130	83.5	65.1	97.7
93	32.2	33.8	50.6#

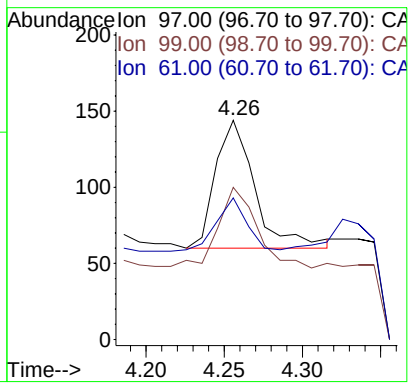


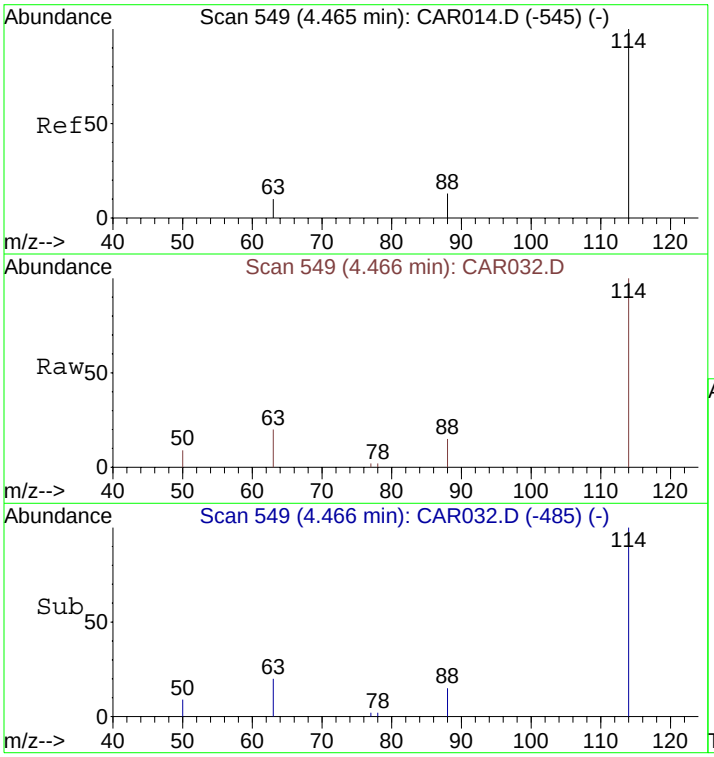


#8
1,1,1-Trichloroethane
Concen: 0.66 ppbv m
RT: 4.26 min Scan# 528
Delta R.T. 0.00 min
Lab File: CAR032.D
Acq: 16 Sep 2008 12:01

Tgt Ion: 97 Resp: 148

Ion	Ratio	Lower	Upper
97	100		
99	56.1	51.8	77.8
61	29.7	32.1	48.1#

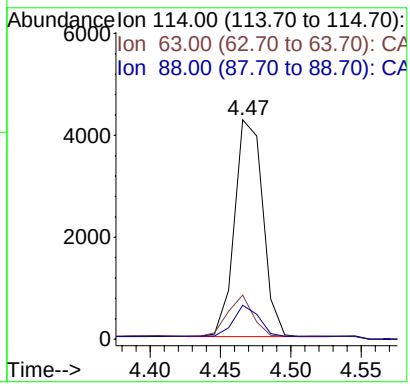


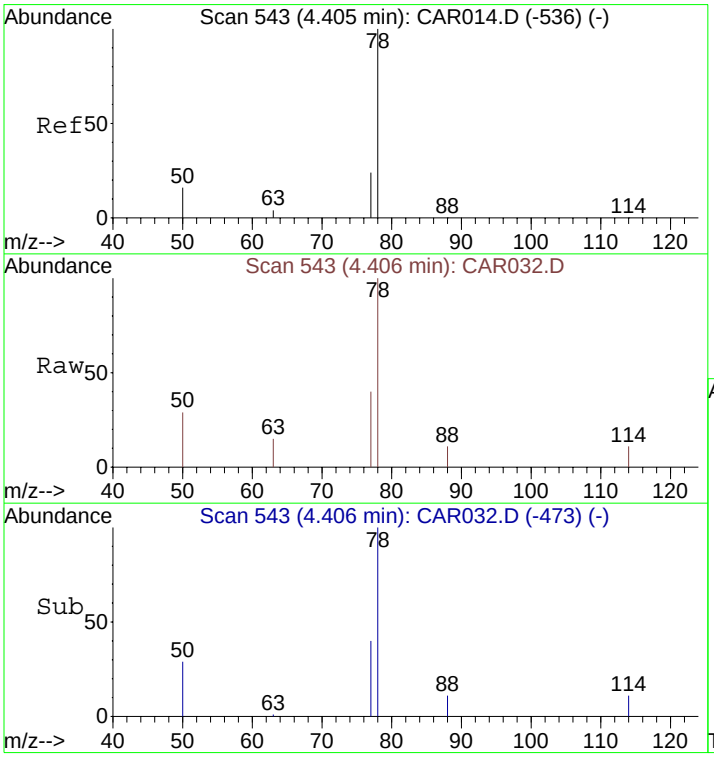


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. 0.00 min
Lab File: CAR032.D
Acq: 16 Sep 2008 12:01

Tgt Ion:114 Resp: 5965

Ion	Ratio	Lower	Upper
114	100		
63	18.1	15.8	23.8
88	21.8	12.2	18.2#

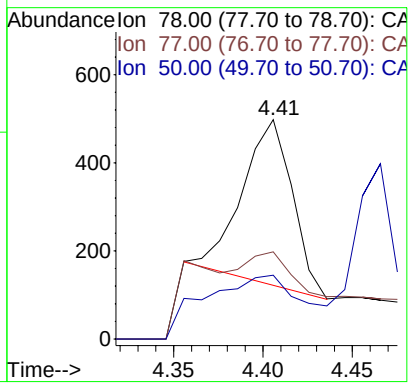


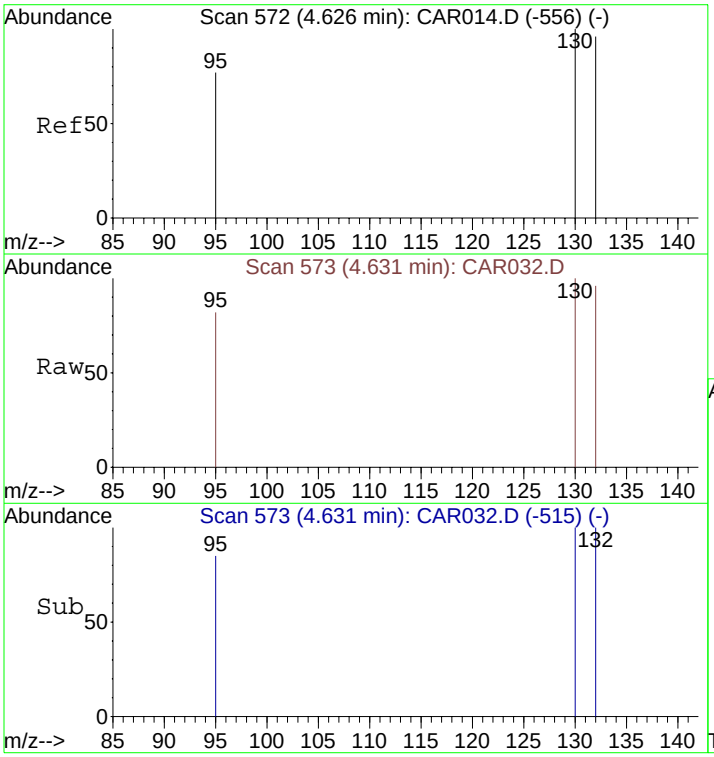


#10
Benzene
Concen: 1.95 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR032.D
Acq: 16 Sep 2008 12:01

Tgt Ion: 78 Resp: 706

Ion	Ratio	Lower	Upper
78	100		
77	16.3	18.6	28.0#
50	9.9	16.2	24.4#

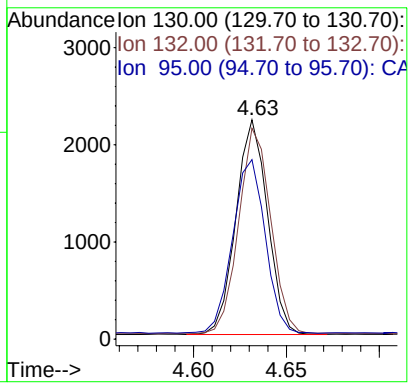


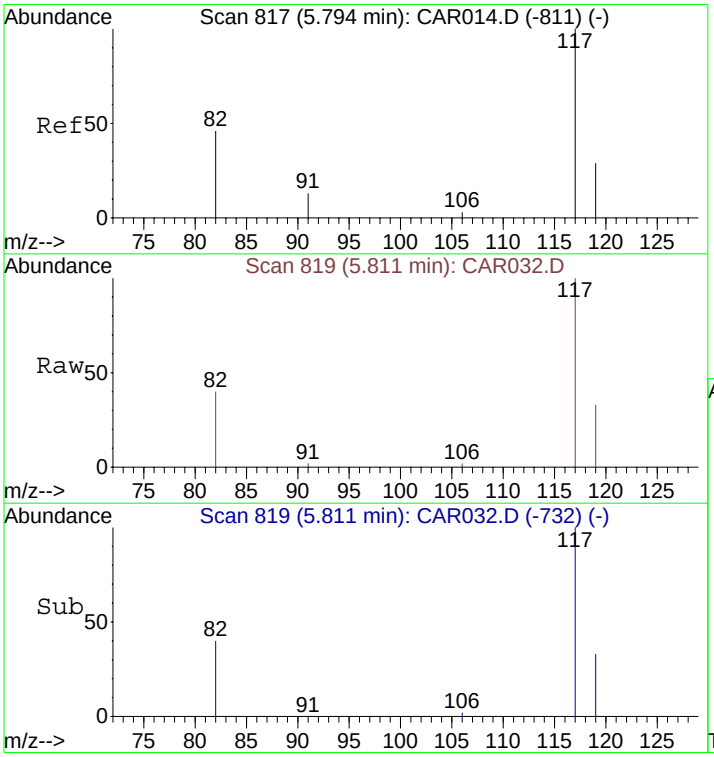


#11
Trichloroethene
Concen: 14.80 ppbv
RT: 4.63 min Scan# 573
Delta R.T. 0.01 min
Lab File: CAR032.D
Acq: 16 Sep 2008 12:01

Tgt Ion:130 Resp: 2614

Ion	Ratio	Lower	Upper
130	100		
132	99.8	73.8	110.6
95	86.3	72.5	108.7

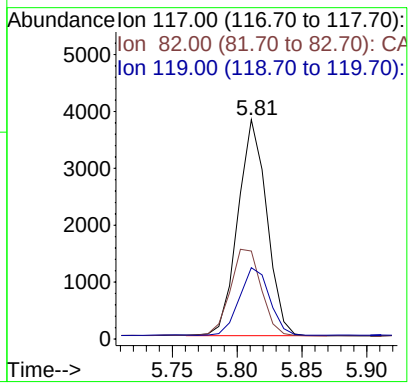


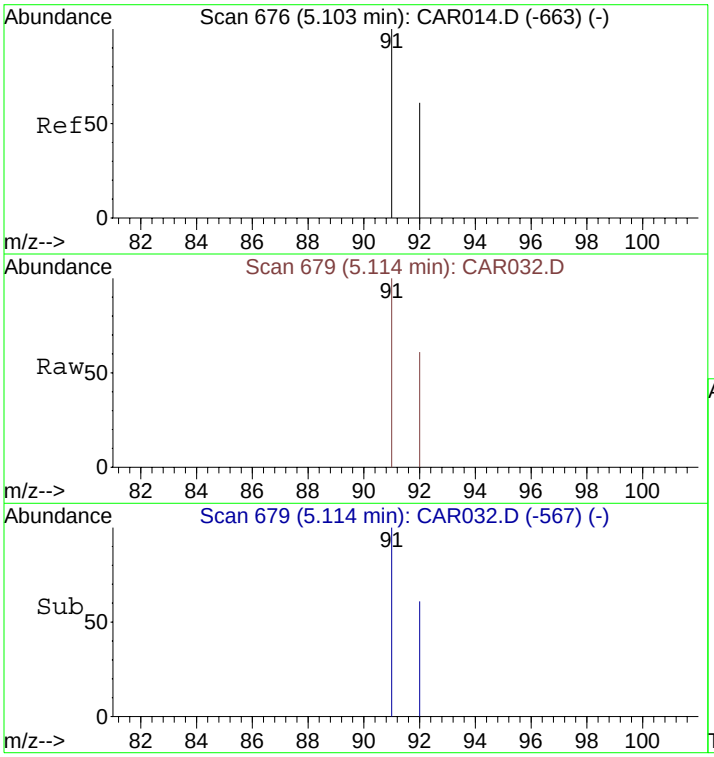


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.81 min Scan# 819
Delta R.T. 0.02 min
Lab File: CAR032.D
Acq: 16 Sep 2008 12:01

Tgt Ion:117 Resp: 5908

Ion	Ratio	Lower	Upper
117	100		
82	43.0	38.3	57.5
119	32.5	26.0	39.0

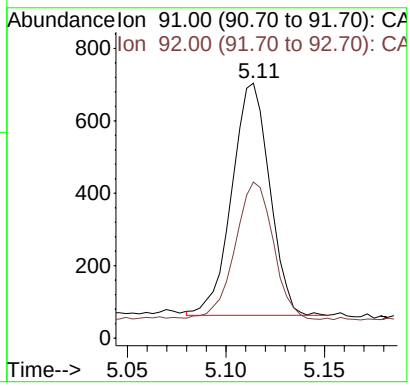


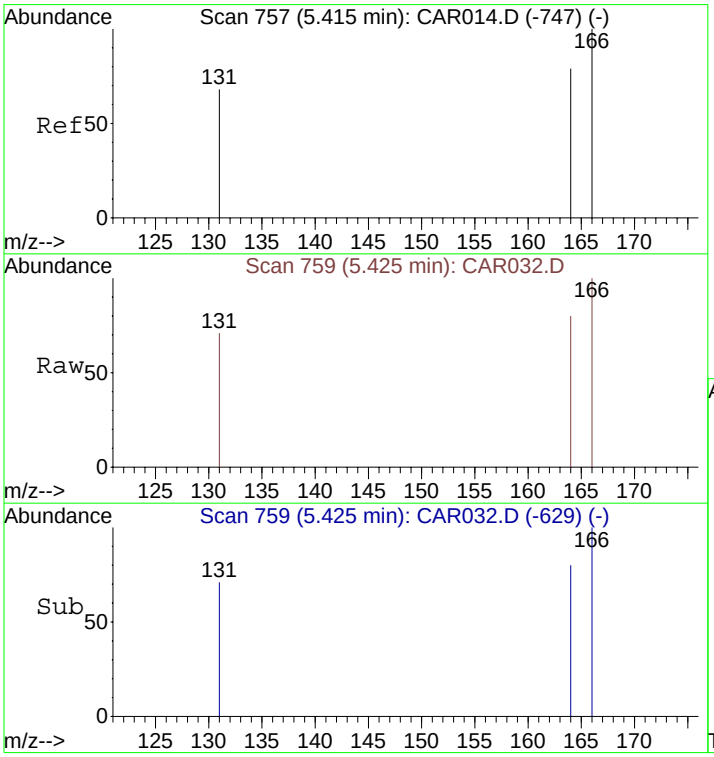


#13
Toluene
Concen: 2.38 ppbv
RT: 5.11 min Scan# 679
Delta R.T. 0.01 min
Lab File: CAR032.D
Acq: 16 Sep 2008 12:01

Tgt Ion: 91 Resp: 855

Ion	Ratio	Lower	Upper
91	100		
92	59.5	48.2	72.2

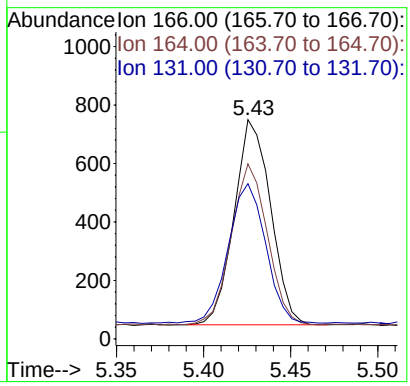


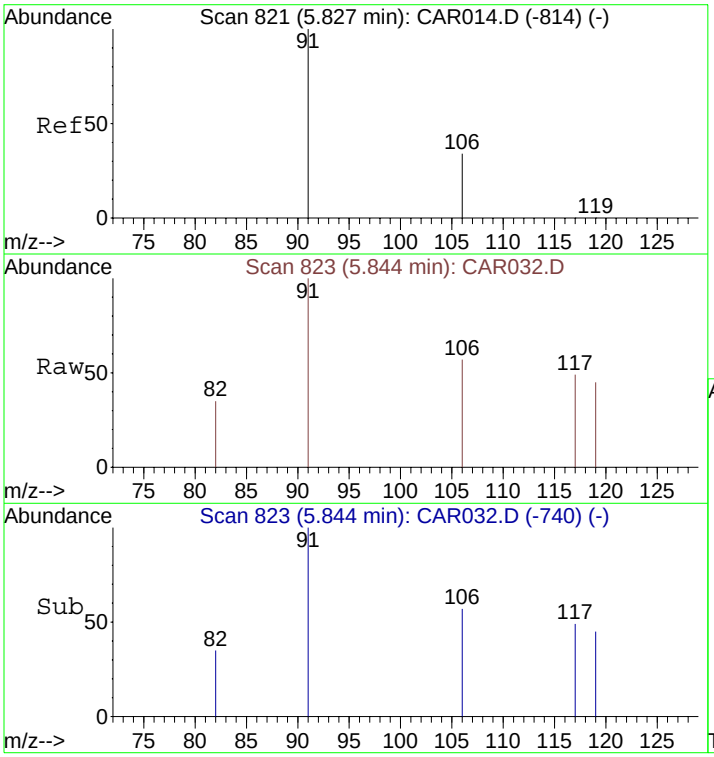


#14
Tetrachloroethene
Concen: 4.75 ppbv
RT: 5.43 min Scan# 759
Delta R.T. 0.01 min
Lab File: CAR032.D
Acq: 16 Sep 2008 12:01

Tgt Ion:166 Resp: 1024

Ion	Ratio	Lower	Upper
166	100		
164	77.6	63.1	94.7
131	69.1	62.9	94.3

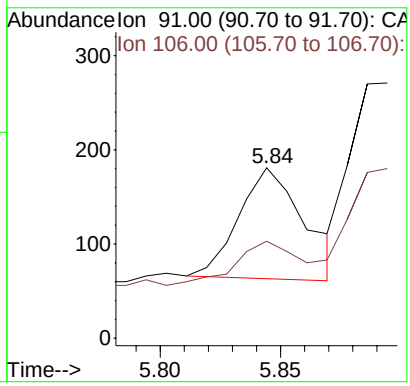


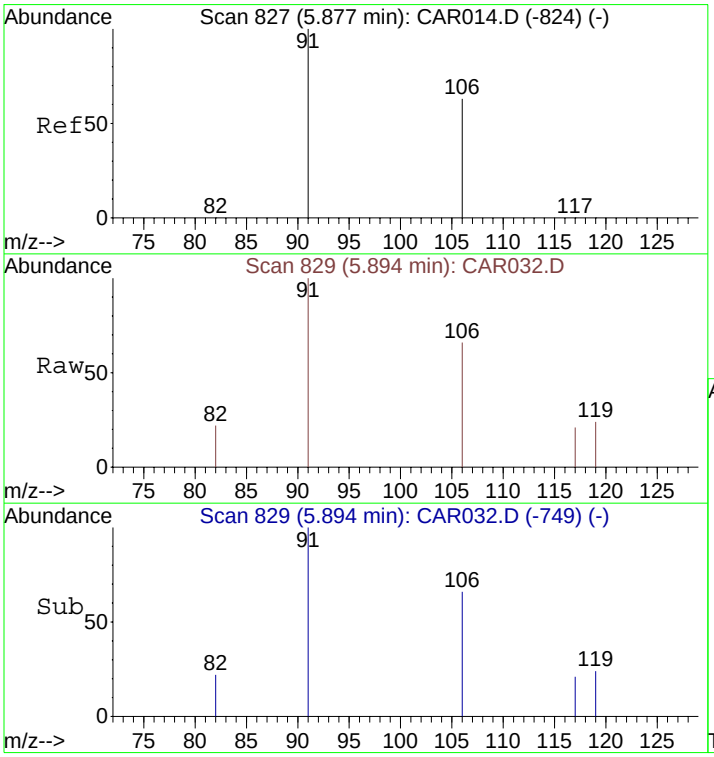


#15
Ethylbenzene
Concen: 0.53 ppbv
RT: 5.84 min Scan# 823
Delta R.T. 0.02 min
Lab File: CAR032.D
Acq: 16 Sep 2008 12:01

Tgt Ion: 91 Resp: 222

Ion	Ratio	Lower	Upper
91	100		
106	32.4	26.3	39.5

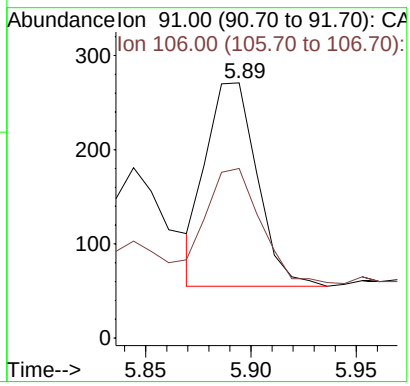




#16
m&p-Xylenes
Concen: 1.25 ppbv
RT: 5.89 min Scan# 829
Delta R.T. 0.02 min
Lab File: CAR032.D
Acq: 16 Sep 2008 12:01

Tgt Ion: 91 Resp: 365

Ion	Ratio	Lower	Upper
91	100		
106	62.2	41.8	62.8



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR033.D Vial: 1
Acq On : 16 Sep 2008 12:12 Operator: dlm
Sample : 51362\A1-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 12:19:49 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 06:10:49 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1932	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	6547	10.00 ppbv	0.01
12) Chlorobenzene-d5	5.82	117	6475	10.00 ppbv	0.03

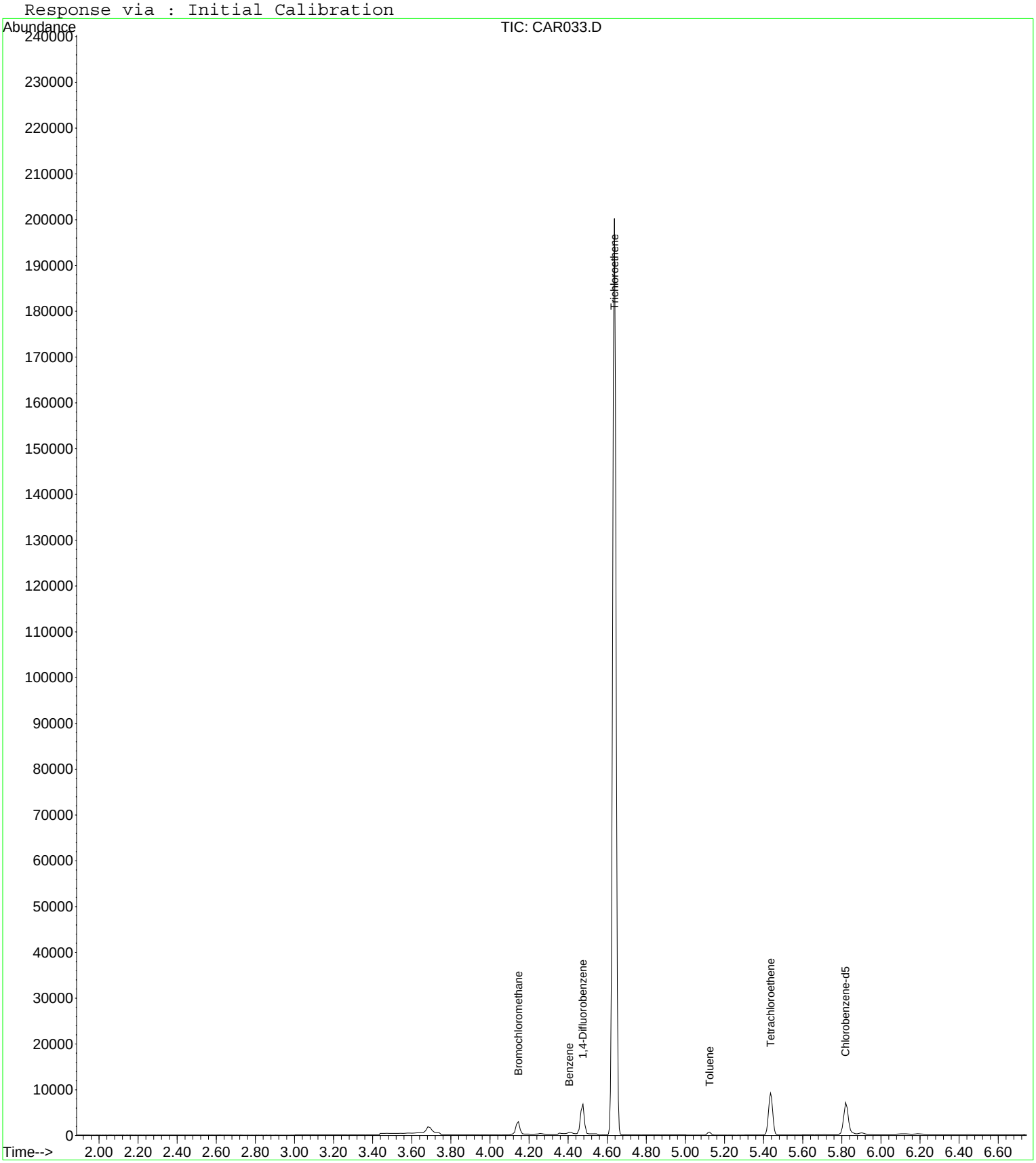
Target Compounds					Qvalue
10) Benzene	4.41	78	402m	1.01 ppbv	
11) Trichloroethene	4.64	130	86807	447.75 ppbv	94
13) Toluene	5.12	91	538	1.37 ppbv	99
14) Tetrachloroethene	5.44	166	5415	22.90 ppbv	95

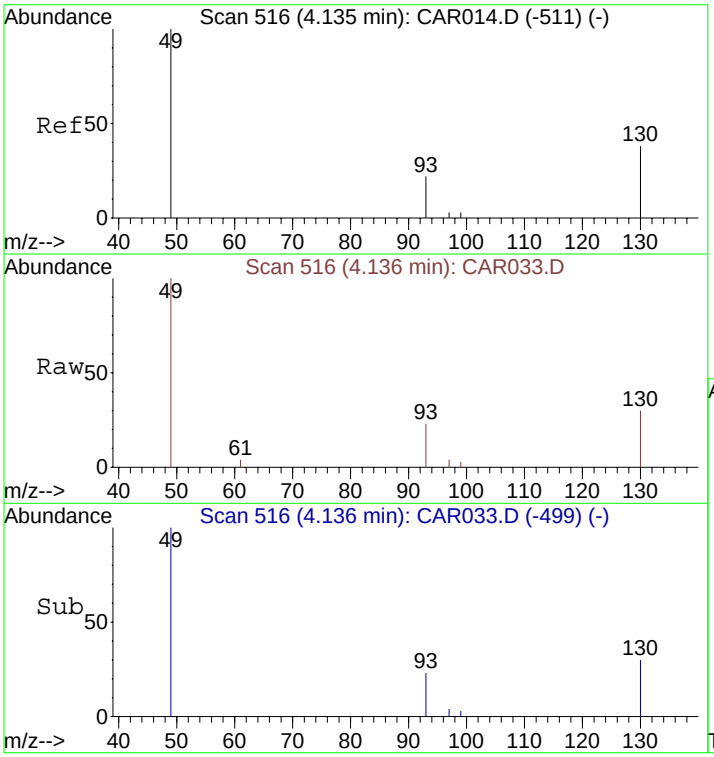
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR033.D Vial: 1
Acq On : 16 Sep 2008 12:12 Operator: dlm
Sample : 51362\A1-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:19 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Thu Oct 02 13:10:18 2008
Response via : Initial Calibration

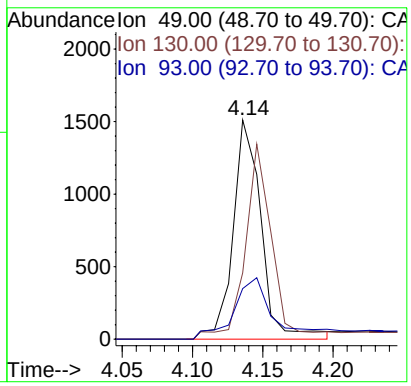


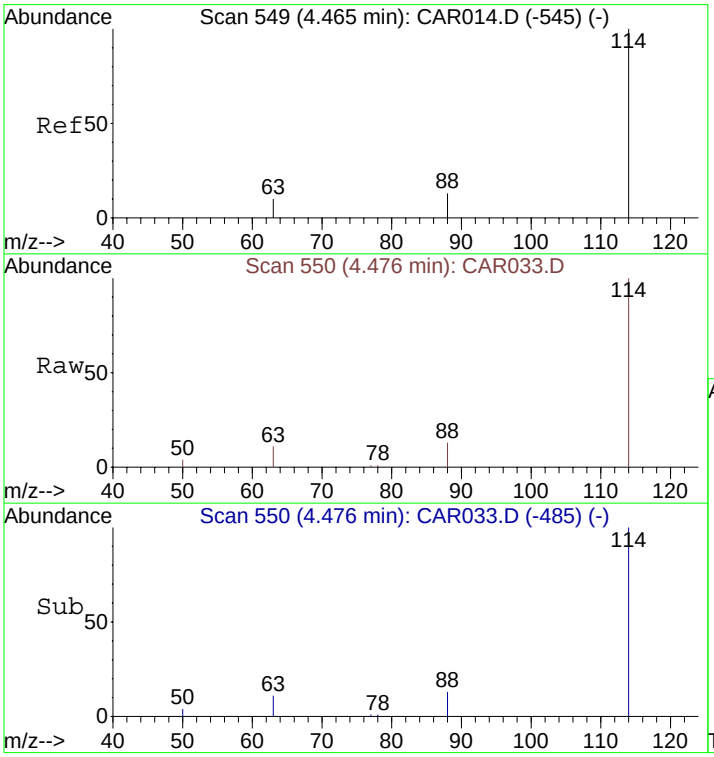


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR033.D
Acq: 16 Sep 2008 12:12

Tgt Ion: 49 Resp: 1932

Ion	Ratio	Lower	Upper
49	100		
130	81.6	65.1	97.7
93	38.1	33.8	50.6

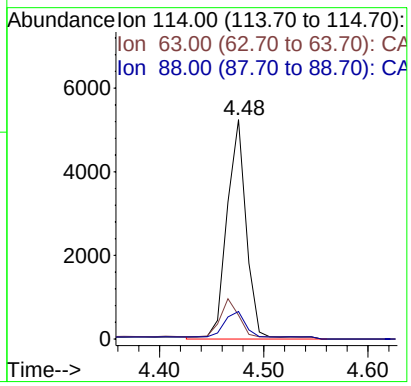


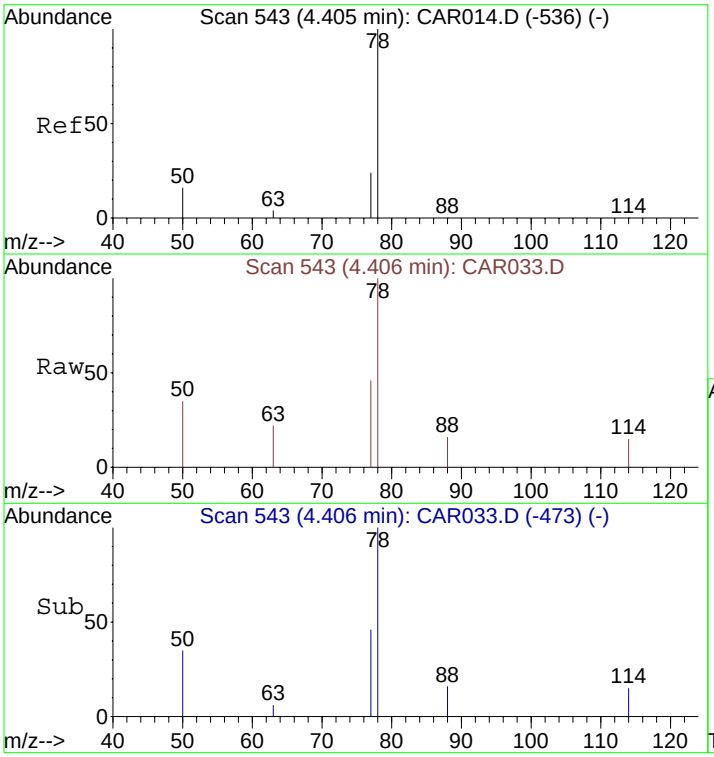


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR033.D
Acq: 16 Sep 2008 12:12

Tgt Ion:114 Resp: 6547

Ion	Ratio	Lower	Upper
114	100		
63	17.6	15.8	23.8
88	13.5	12.2	18.2

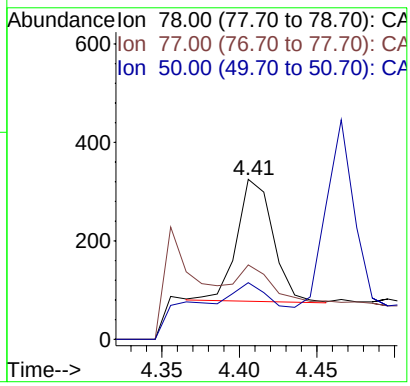


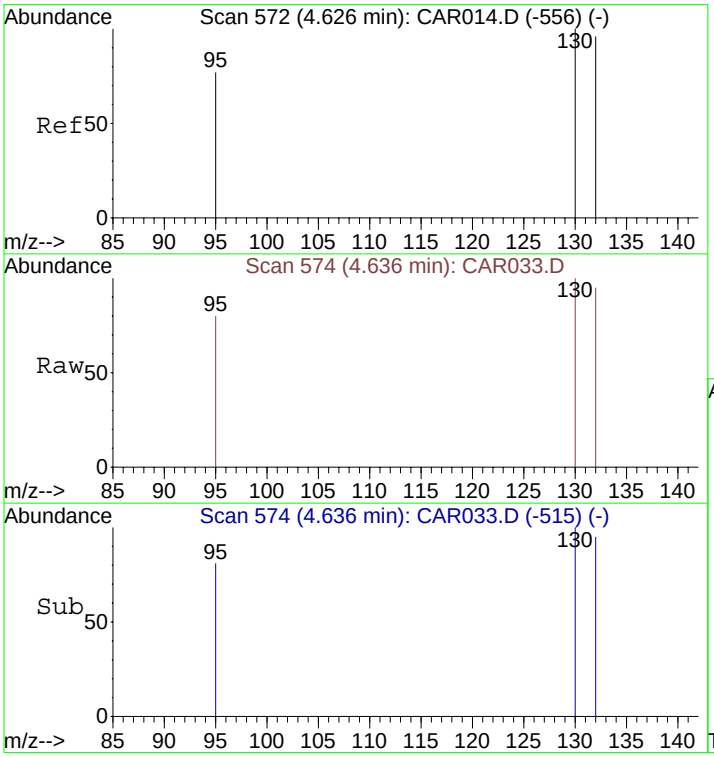


#10
Benzene
Concen: 1.01 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR033.D
Acq: 16 Sep 2008 12:12

Tgt Ion: 78 Resp: 402

Ion	Ratio	Lower	Upper
78	100		
77	16.9	18.6	28.0#
50	22.6	16.2	24.4

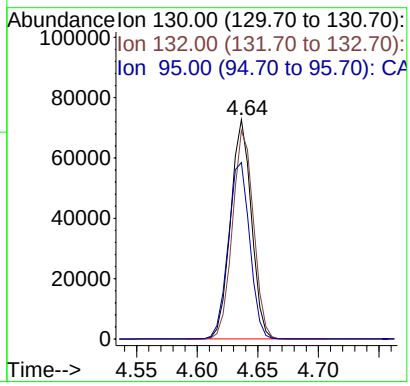


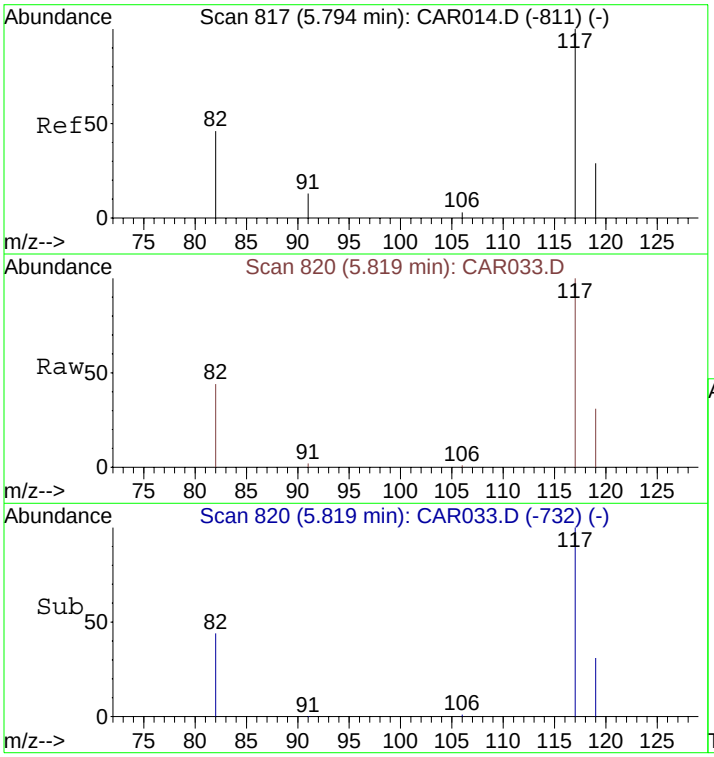


#11
Trichloroethene
Concen: 447.75 ppbv
RT: 4.64 min Scan# 574
Delta R.T. 0.01 min
Lab File: CAR033.D
Acq: 16 Sep 2008 12:12

Tgt Ion:130 Resp: 86807

Ion	Ratio	Lower	Upper
130	100		
132	96.0	73.8	110.6
95	82.9	72.5	108.7

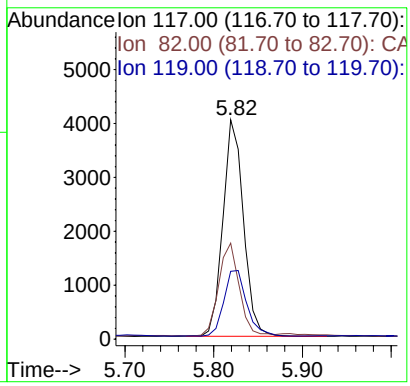


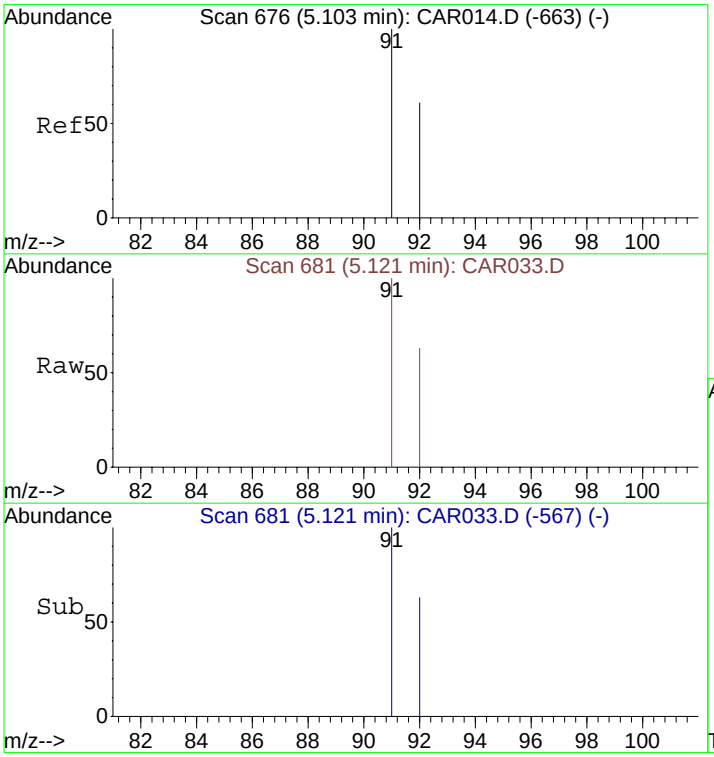


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.82 min Scan# 820
Delta R.T. 0.03 min
Lab File: CAR033.D
Acq: 16 Sep 2008 12:12

Tgt Ion:117 Resp: 6475

Ion	Ratio	Lower	Upper
117	100		
82	43.0	38.3	57.5
119	34.5	26.0	39.0

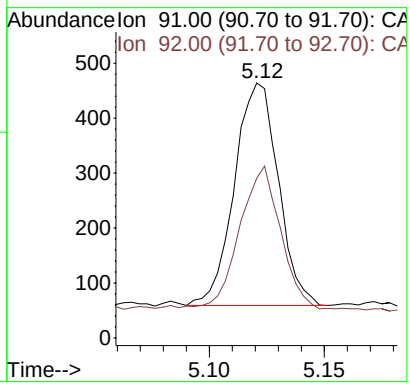


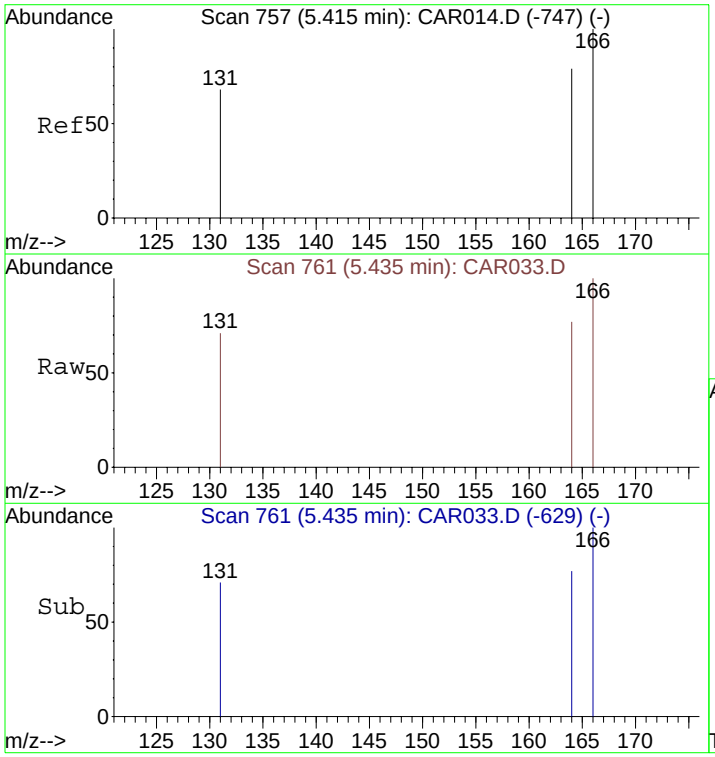


#13
Toluene
Concen: 1.37 ppbv
RT: 5.12 min Scan# 681
Delta R.T. 0.02 min
Lab File: CAR033.D
Acq: 16 Sep 2008 12:12

Tgt Ion: 91 Resp: 538

Ion	Ratio	Lower	Upper
91	100		
92	60.6	48.2	72.2

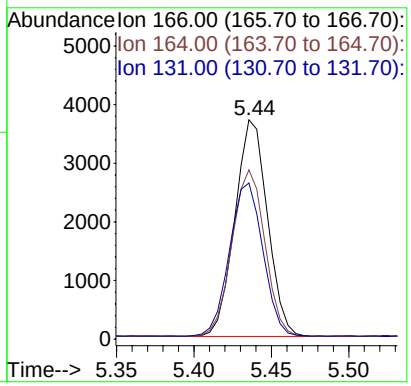




#14
Tetrachloroethene
Concen: 22.90 ppbv
RT: 5.44 min Scan# 761
Delta R.T. 0.02 min
Lab File: CAR033.D
Acq: 16 Sep 2008 12:12

Tgt Ion:166 Resp: 5415

Ion	Ratio	Lower	Upper
166	100		
164	77.3	63.1	94.7
131	72.2	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR034.D Vial: 1
Acq On : 16 Sep 2008 12:23 Operator: dlm
Sample : 51363\A2-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 12:30:49 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 06:10:49 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1963	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	6556	10.00 ppbv	0.01
12) Chlorobenzene-d5	5.84	117	6238	10.00 ppbv	0.04

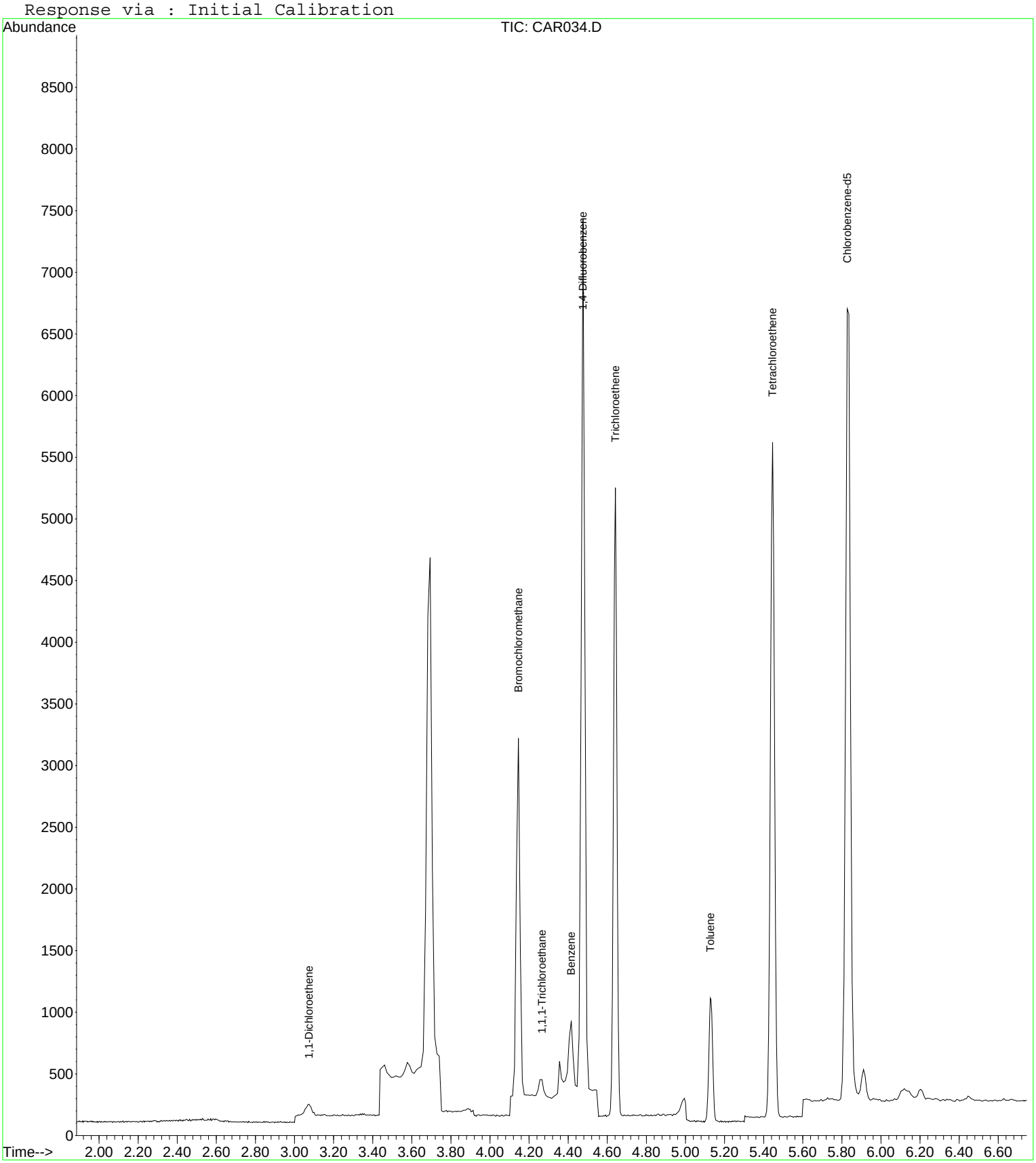
Target Compounds					Qvalue
3) 1,1-Dichloroethene	3.07	61	162m	0.92 ppbv	
8) 1,1,1-Trichloroethane	4.26	97	127m	0.52 ppbv	
10) Benzene	4.42	78	566m	1.42 ppbv	
11) Trichloroethene	4.64	130	2266	11.67 ppbv	92
13) Toluene	5.13	91	863	2.28 ppbv	98
14) Tetrachloroethene	5.45	166	3181	13.96 ppbv	96

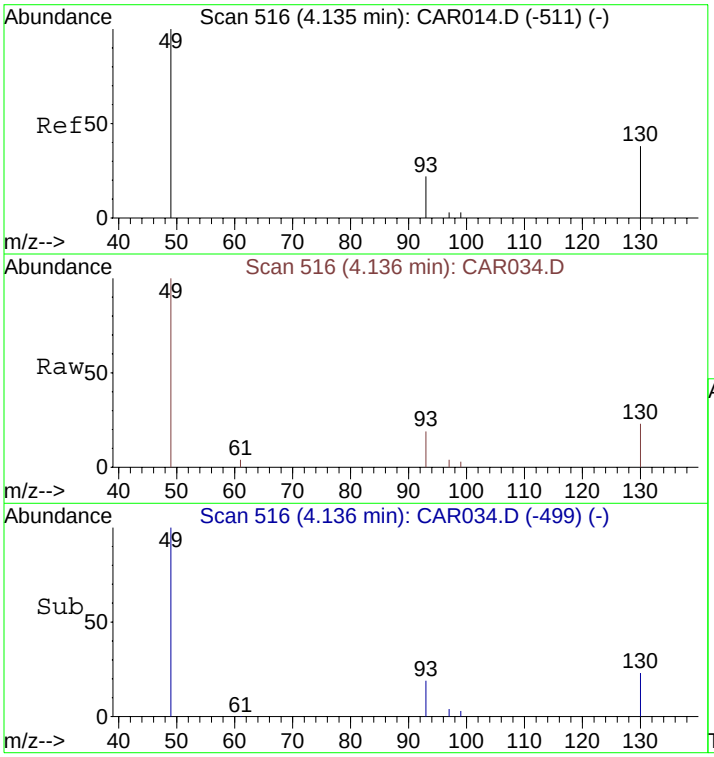
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR034.D Vial: 1
Acq On : 16 Sep 2008 12:23 Operator: dlm
Sample : 51363\A2-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:21 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Thu Oct 02 13:10:18 2008
Response via : Initial Calibration

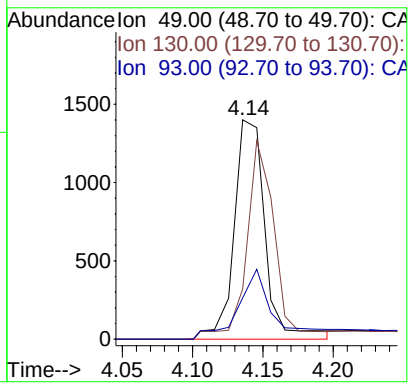


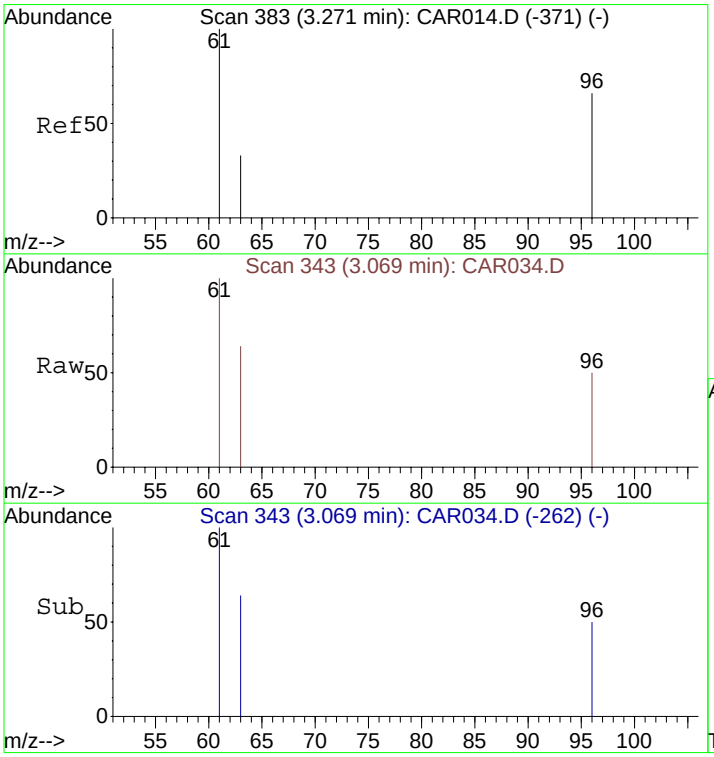


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR034.D
Acq: 16 Sep 2008 12:23

Tgt Ion: 49 Resp: 1963

Ion	Ratio	Lower	Upper
49	100		
130	81.9	65.1	97.7
93	37.0	33.8	50.6

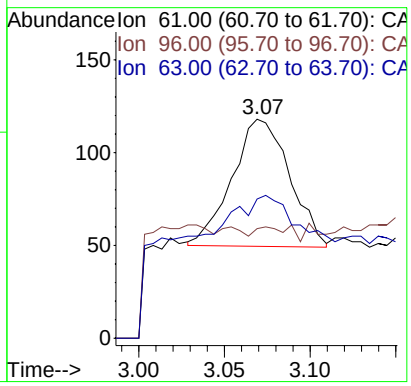


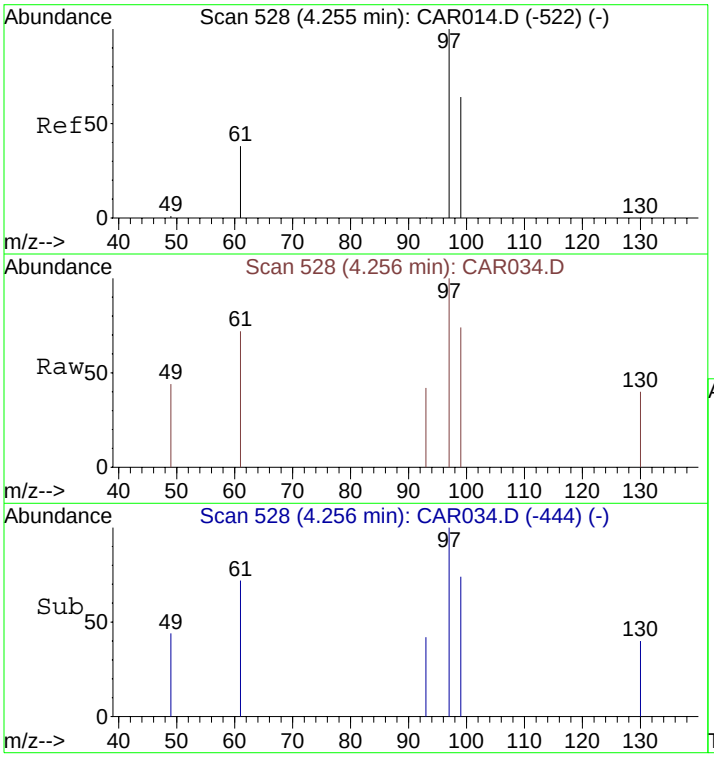


#3
1,1-Dichloroethene
Concen: 0.92 ppbv m
RT: 3.07 min Scan# 343
Delta R.T. -0.20 min
Lab File: CAR034.D
Acq: 16 Sep 2008 12:23

Tgt Ion: 61 Resp: 162

Ion	Ratio	Lower	Upper
61	100		
96	92.0	45.7	68.5#
63	43.8	25.0	37.4#

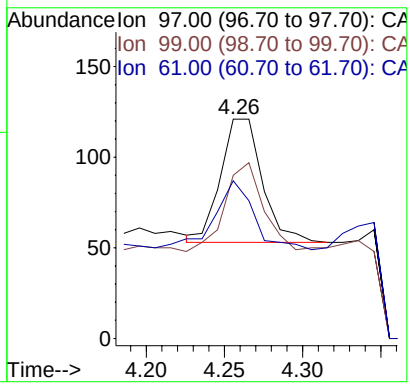


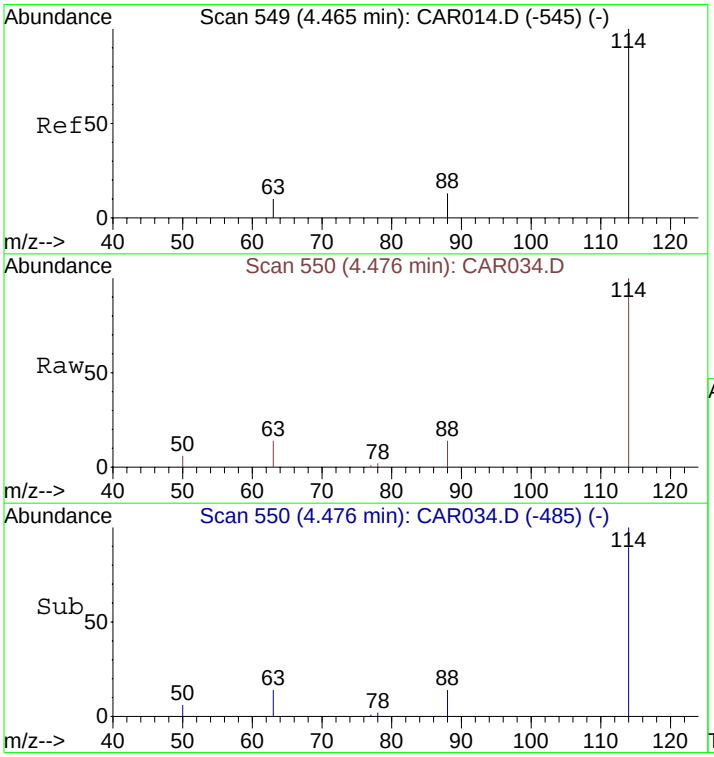


#8
1,1,1-Trichloroethane
Concen: 0.52 ppbv m
RT: 4.26 min Scan# 528
Delta R.T. 0.00 min
Lab File: CAR034.D
Acq: 16 Sep 2008 12:23

Tgt Ion: 97 Resp: 127

Ion	Ratio	Lower	Upper
97	100		
99	66.9	51.8	77.8
61	52.8	32.1	48.1#

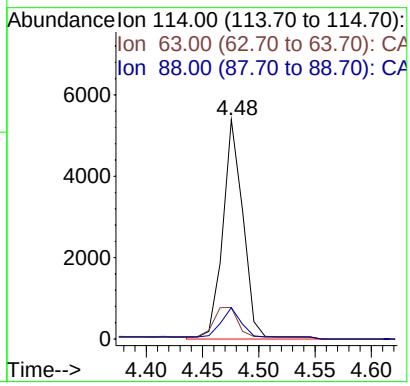


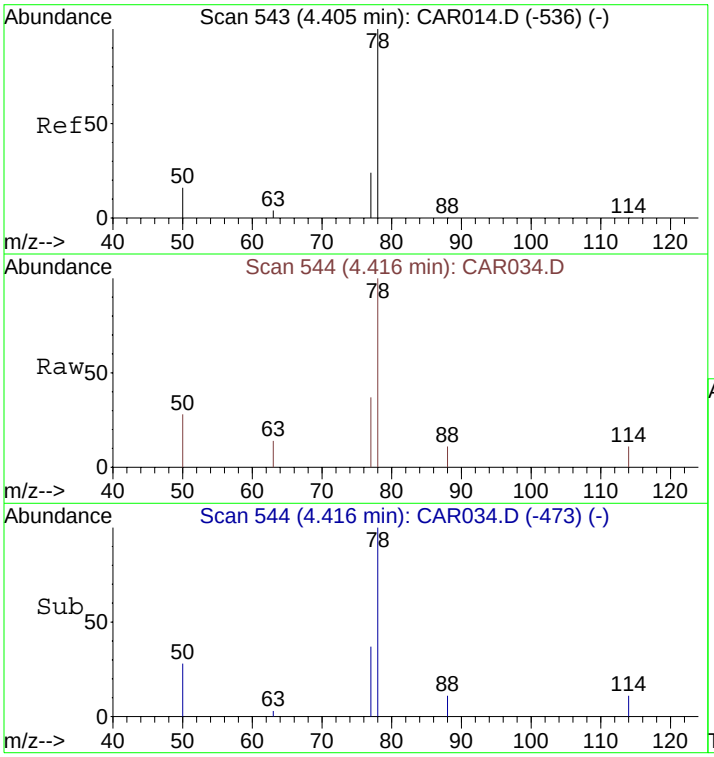


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR034.D
Acq: 16 Sep 2008 12:23

Tgt Ion:114 Resp: 6556

Ion	Ratio	Lower	Upper
114	100		
63	17.3	15.8	23.8
88	16.9	12.2	18.2

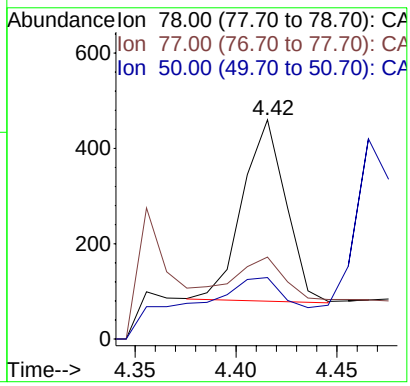


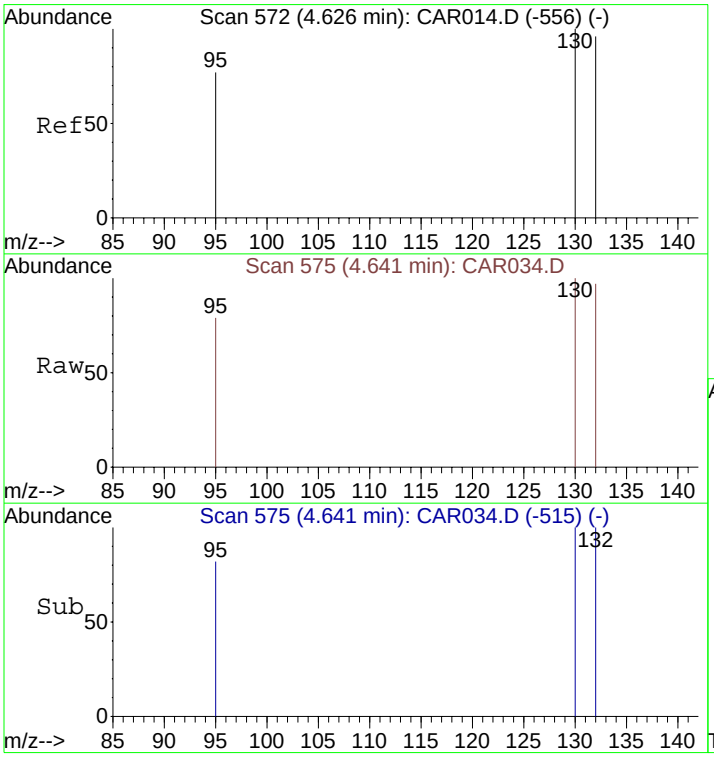


#10
Benzene
Concen: 1.42 ppbv m
RT: 4.42 min Scan# 544
Delta R.T. 0.01 min
Lab File: CAR034.D
Acq: 16 Sep 2008 12:23

Tgt Ion: 78 Resp: 566

Ion	Ratio	Lower	Upper
78	100		
77	17.5	18.6	28.0#
50	15.2	16.2	24.4#

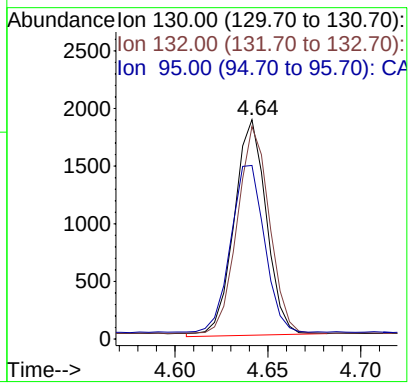


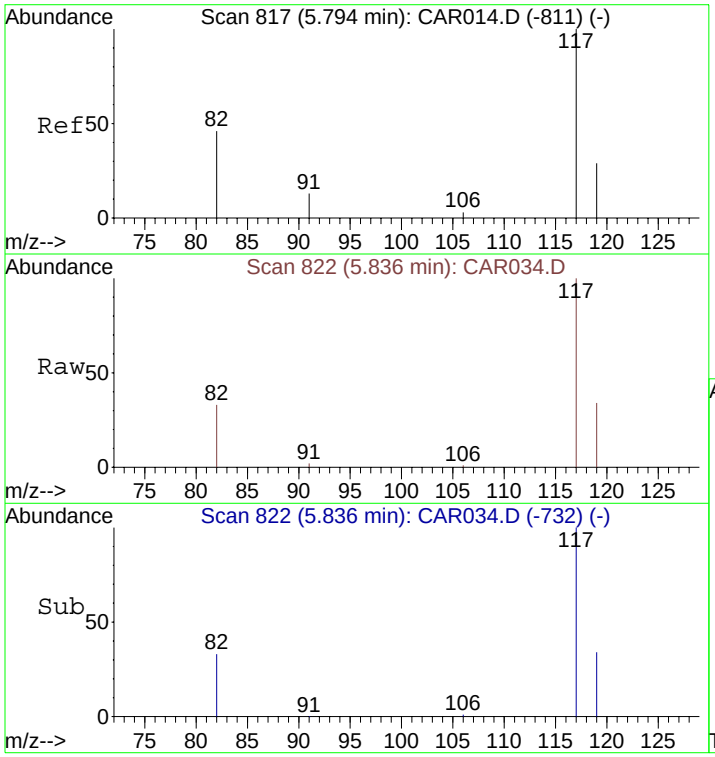


#11
Trichloroethene
Concen: 11.67 ppbv
RT: 4.64 min Scan# 575
Delta R.T. 0.02 min
Lab File: CAR034.D
Acq: 16 Sep 2008 12:23

Tgt Ion:130 Resp: 2266

Ion	Ratio	Lower	Upper
130	100		
132	97.7	73.8	110.6
95	80.1	72.5	108.7

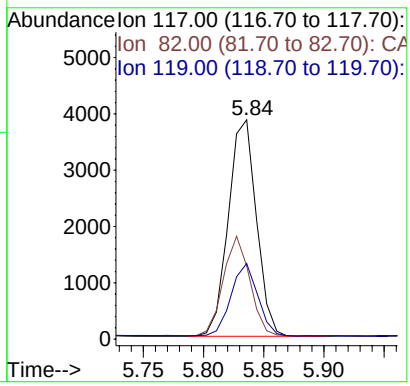


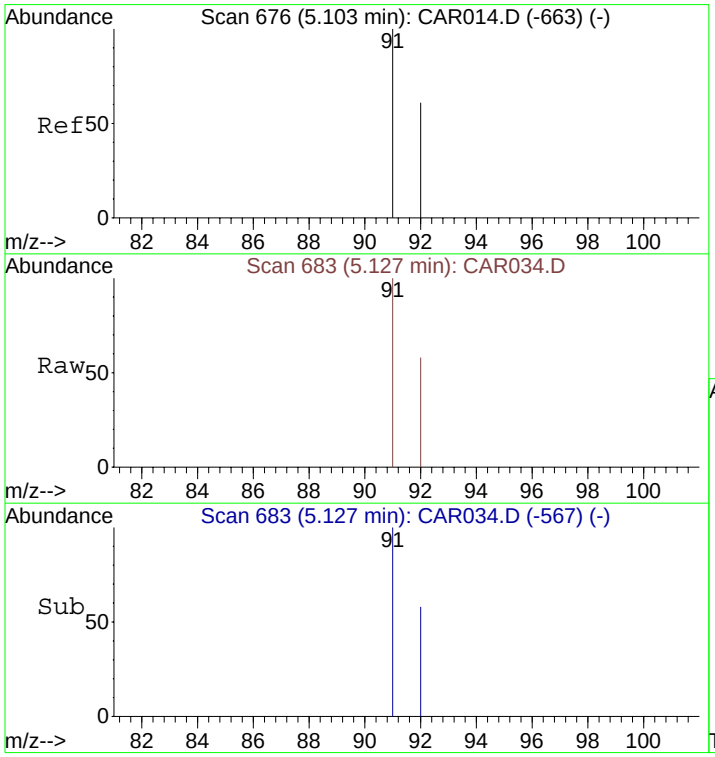


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.84 min Scan# 822
Delta R.T. 0.04 min
Lab File: CAR034.D
Acq: 16 Sep 2008 12:23

Tgt Ion:117 Resp: 6238

Ion	Ratio	Lower	Upper
117	100		
82	43.3	38.3	57.5
119	31.8	26.0	39.0

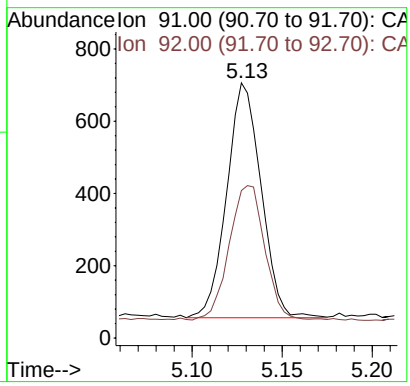


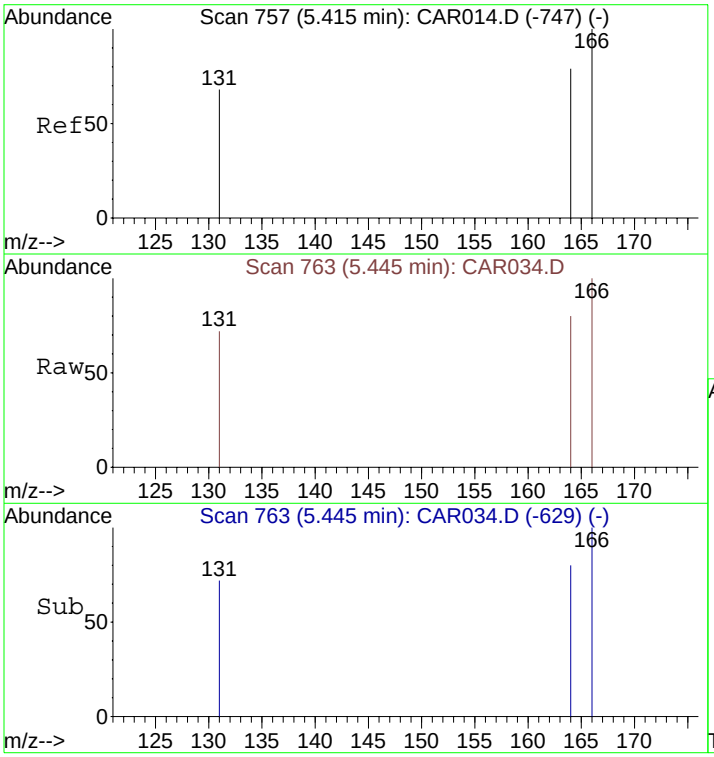


#13
Toluene
Concen: 2.28 ppbv
RT: 5.13 min Scan# 683
Delta R.T. 0.02 min
Lab File: CAR034.D
Acq: 16 Sep 2008 12:23

Tgt Ion: 91 Resp: 863

Ion	Ratio	Lower	Upper
91	100		
92	58.9	48.2	72.2

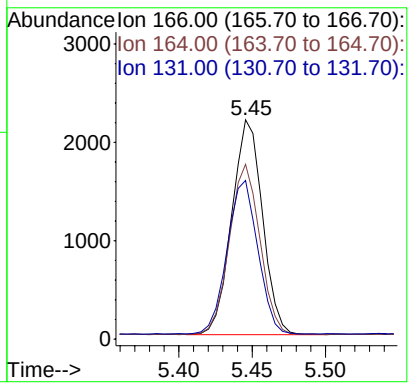




#14
Tetrachloroethene
Concen: 13.96 ppbv
RT: 5.45 min Scan# 763
Delta R.T. 0.03 min
Lab File: CAR034.D
Acq: 16 Sep 2008 12:23

Tgt Ion:166 Resp: 3181

Ion	Ratio	Lower	Upper
166	100		
164	78.6	63.1	94.7
131	71.2	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR035.D Vial: 1
Acq On : 16 Sep 2008 12:34 Operator: dlm
Sample : 51372\D2-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 12:42:02 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 06:10:49 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1744	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	6018	10.00 ppbv	0.01
12) Chlorobenzene-d5	5.83	117	6209	10.00 ppbv	0.03

Target Compounds					Qvalue
5) trans-1,2-Dichloroethene	3.62	61	494	3.37 ppbv	88
7) cis-1,2-Dichloroethene	4.02	61	1249m	8.52 ppbv	
8) 1,1,1-Trichloroethane	4.26	97	3370	15.48 ppbv	97
10) Benzene	4.42	78	550m	1.50 ppbv	
11) Trichloroethene	4.64	130	2594918	14561.14 ppbv *	95
13) Toluene	5.12	91	400	1.06 ppbv	98
14) Tetrachloroethene	5.44	166	7666	33.80 ppbv	96

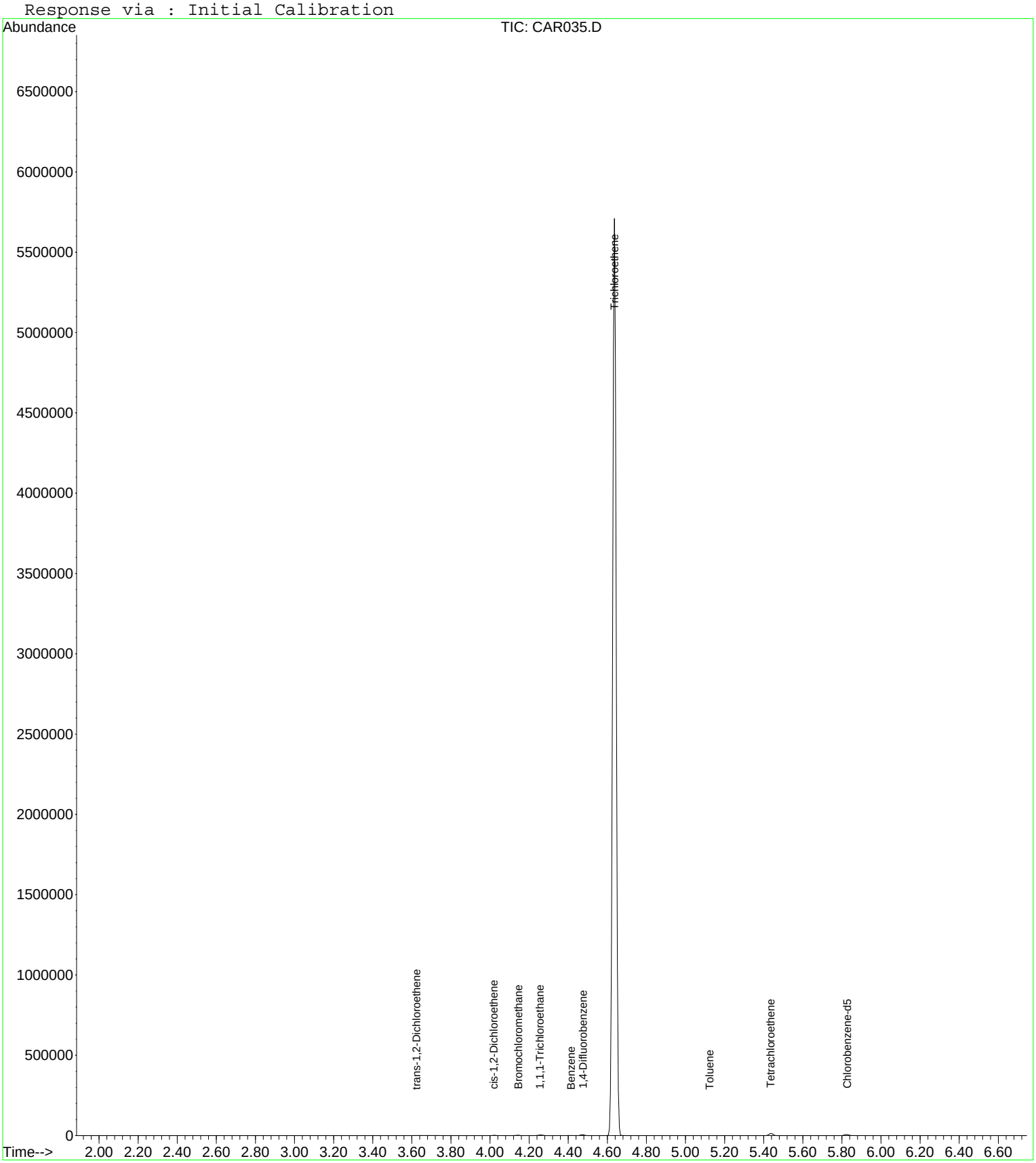
* Value from file CAR038 reported

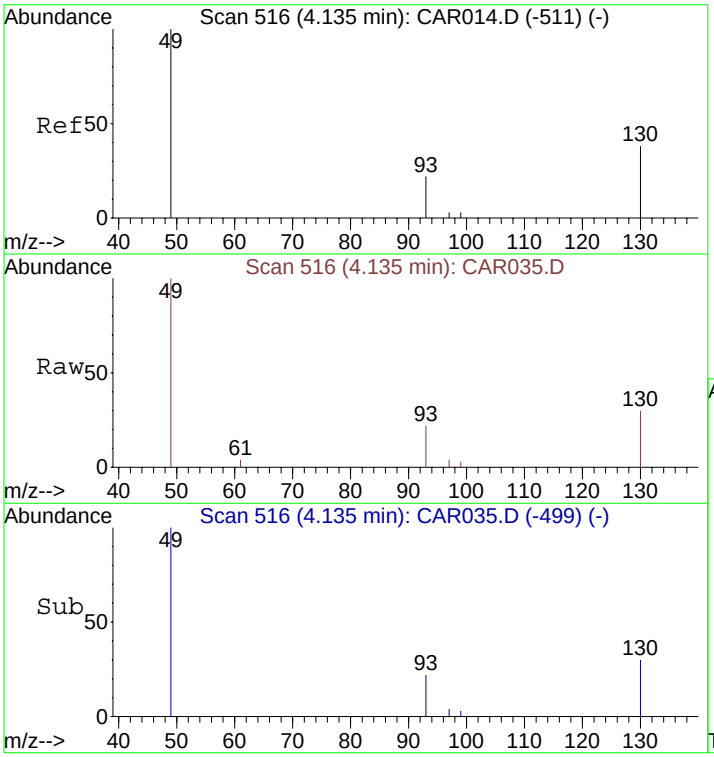
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR035.D Vial: 1
Acq On : 16 Sep 2008 12:34 Operator: dlm
Sample : 51372\D2-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:23 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Thu Oct 02 13:10:18 2008
Response via : Initial Calibration

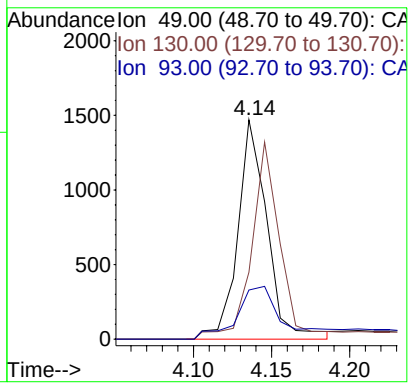


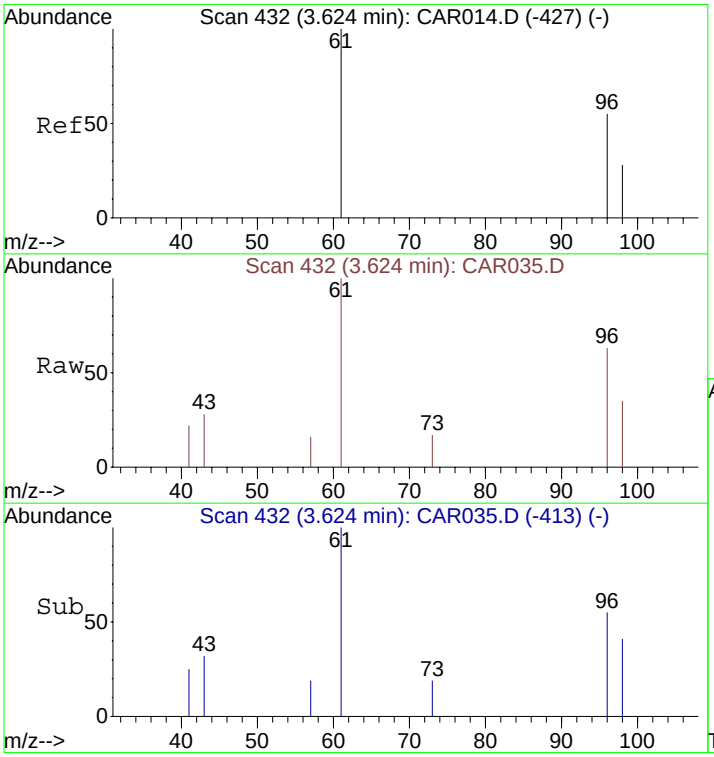


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR035.D
Acq: 16 Sep 2008 12:34

Tgt Ion: 49 Resp: 1744

Ion	Ratio	Lower	Upper
49	100		
130	88.2	65.1	97.7
93	39.9	33.8	50.6

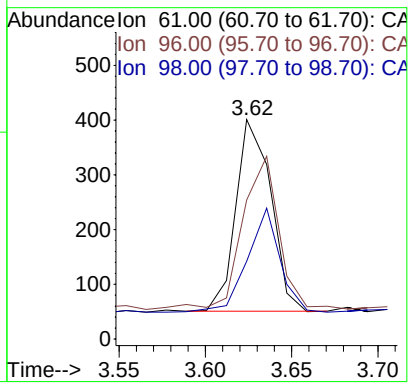


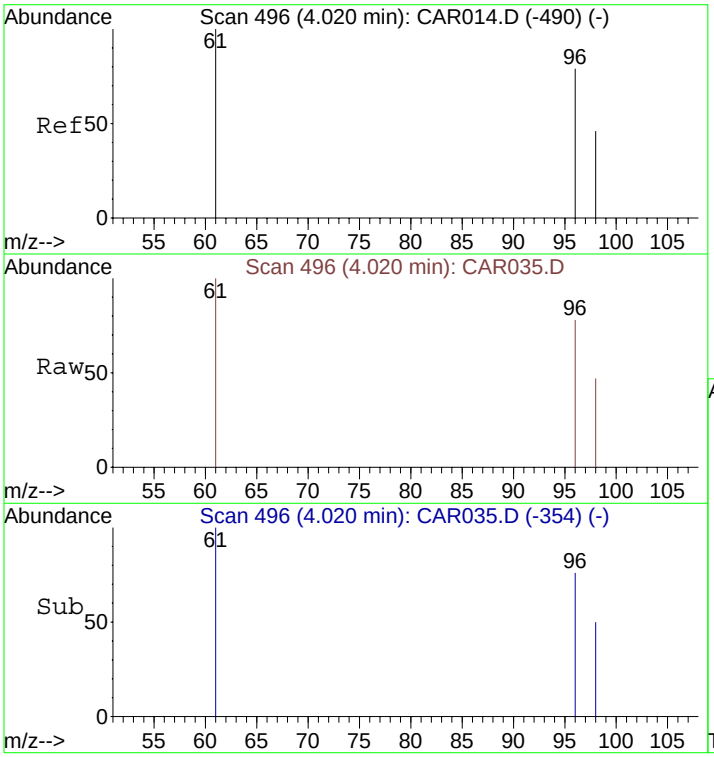


#5
trans-1,2-Dichloroethene
Concen: 3.37 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR035.D
Acq: 16 Sep 2008 12:34

Tgt Ion: 61 Resp: 494

Ion	Ratio	Lower	Upper
61	100		
96	80.2	55.0	82.4
98	50.4	35.6	53.4

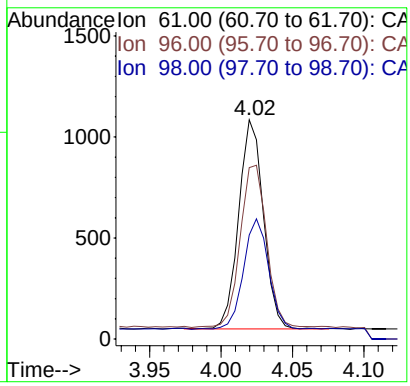


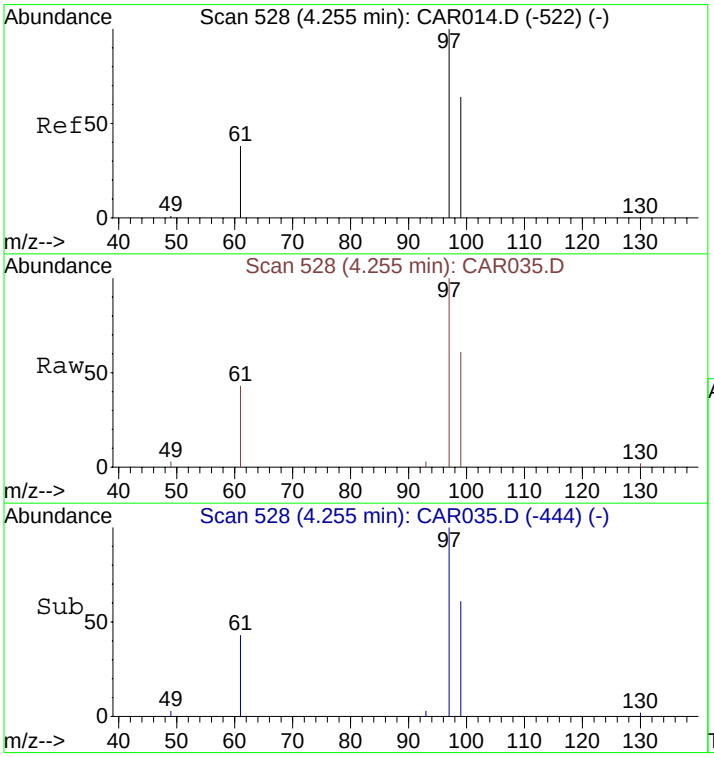


#7
cis-1,2-Dichloroethene
Concen: 8.52 ppbv m
RT: 4.02 min Scan# 496
Delta R.T. 0.40 min
Lab File: CAR035.D
Acq: 16 Sep 2008 12:34

Tgt Ion: 61 Resp: 1249

Ion	Ratio	Lower	Upper
61	100		
96	81.2	56.0	84.0
98	52.1	36.2	54.4

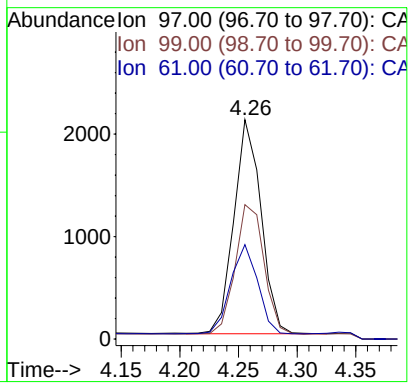


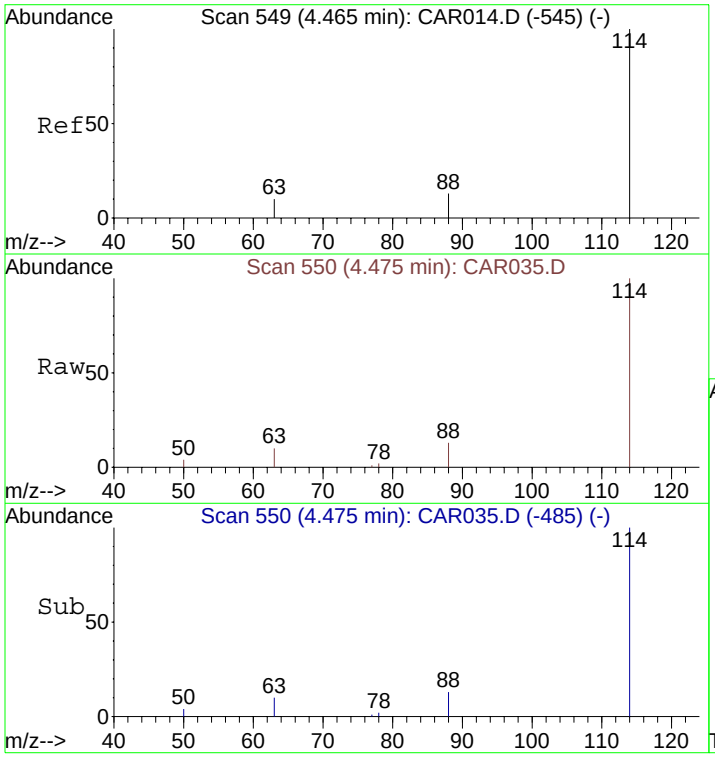


#8
1,1,1-Trichloroethane
Concen: 15.48 ppbv
RT: 4.26 min Scan# 528
Delta R.T. 0.00 min
Lab File: CAR035.D
Acq: 16 Sep 2008 12:34

Tgt Ion: 97 Resp: 3370

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.8	77.8
61	43.9	32.1	48.1

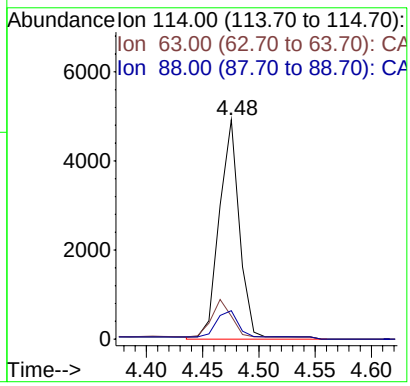


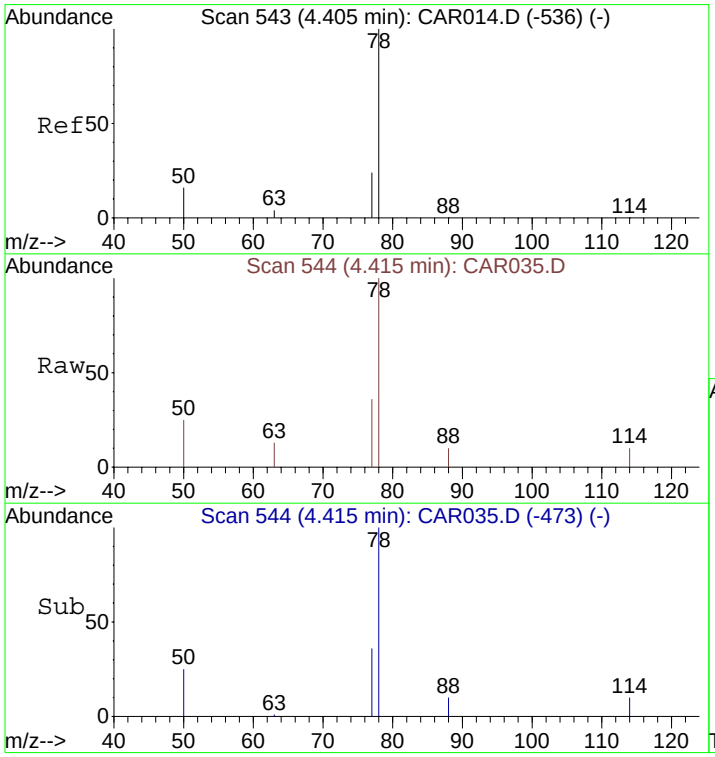


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR035.D
Acq: 16 Sep 2008 12:34

Tgt Ion:114 Resp: 6018

Ion	Ratio	Lower	Upper
114	100		
63	17.8	15.8	23.8
88	18.0	12.2	18.2

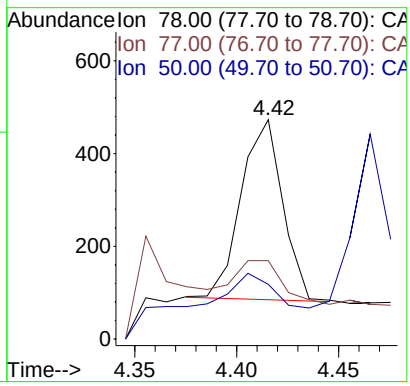


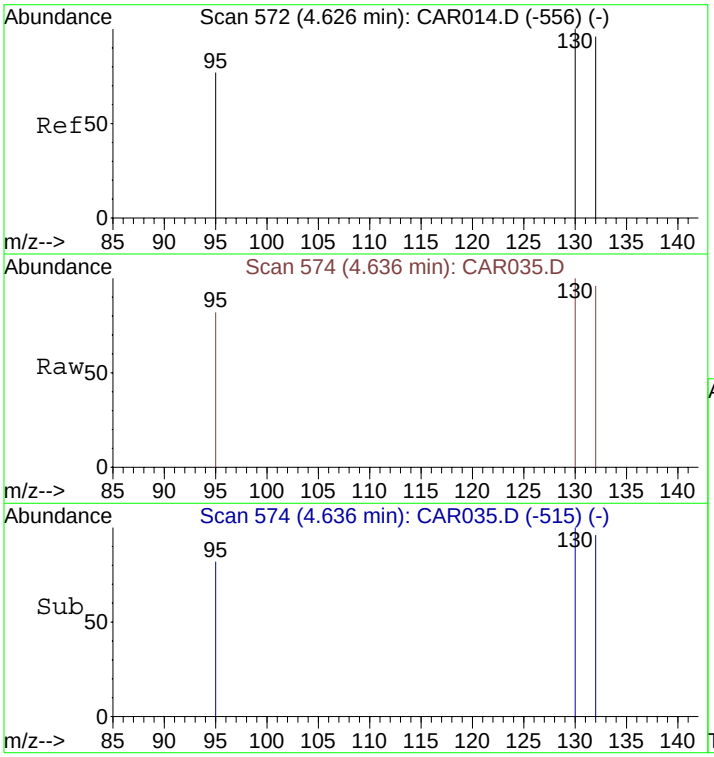


#10
Benzene
Concen: 1.50 ppbv m
RT: 4.42 min Scan# 544
Delta R.T. 0.01 min
Lab File: CAR035.D
Acq: 16 Sep 2008 12:34

Tgt Ion: 78 Resp: 550

Ion	Ratio	Lower	Upper
78	100		
77	19.6	18.6	28.0
50	16.4	16.2	24.4

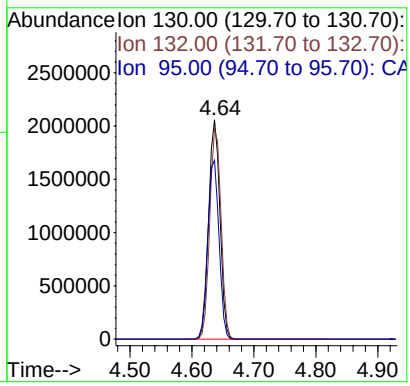


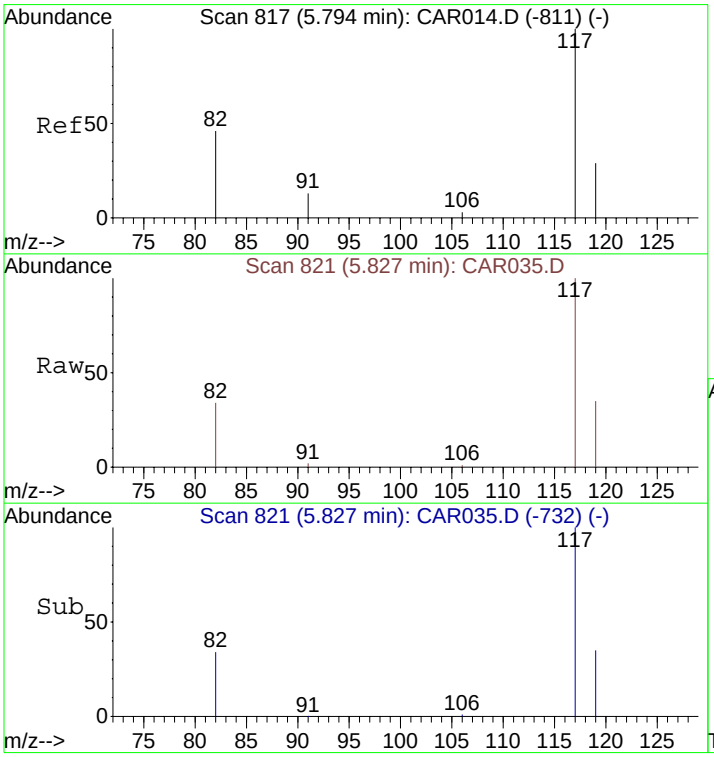


#11
Trichloroethene
Concen: 14561.14 ppbv
RT: 4.64 min Scan# 574
Delta R.T. 0.01 min
Lab File: CAR035.D
Acq: 16 Sep 2008 12:34

Tgt Ion:130 Resp: 2594918

Ion	Ratio	Lower	Upper
130	100		
132	97.1	73.8	110.6
95	86.1	72.5	108.7

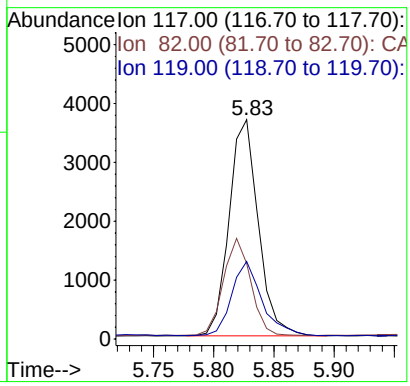


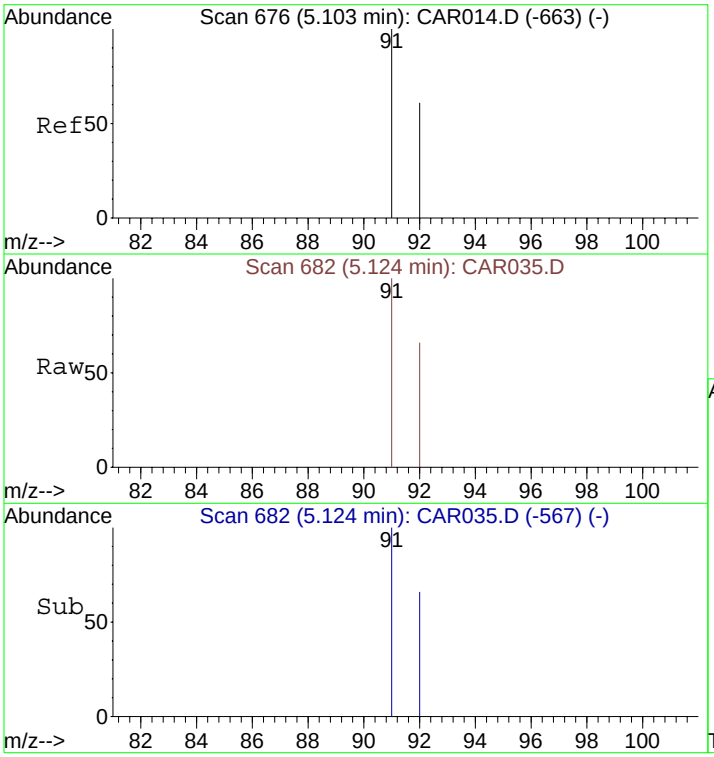


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.83 min Scan# 821
Delta R.T. 0.03 min
Lab File: CAR035.D
Acq: 16 Sep 2008 12:34

Tgt Ion:117 Resp: 6209

Ion	Ratio	Lower	Upper
117	100		
82	42.0	38.3	57.5
119	35.6	26.0	39.0

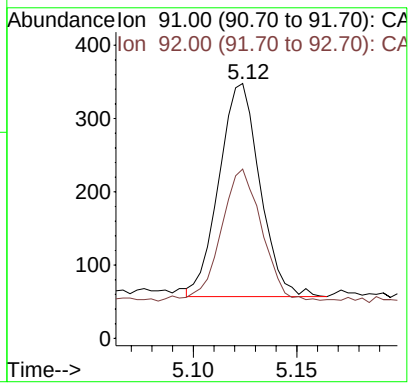


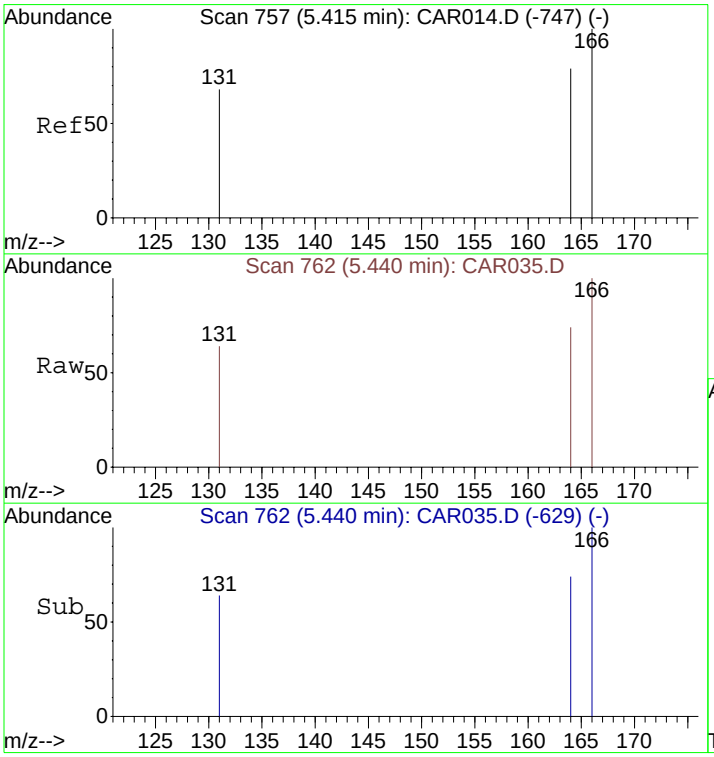


#13
Toluene
Concen: 1.06 ppbv
RT: 5.12 min Scan# 682
Delta R.T. 0.02 min
Lab File: CAR035.D
Acq: 16 Sep 2008 12:34

Tgt Ion: 91 Resp: 400

Ion	Ratio	Lower	Upper
91	100		
92	59.0	48.2	72.2

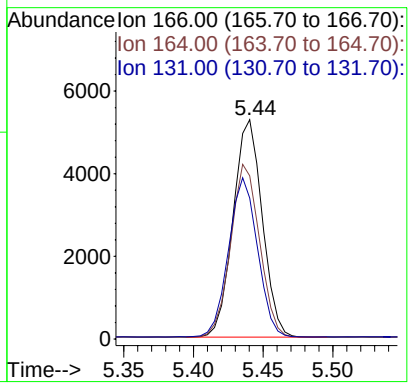




#14
Tetrachloroethene
Concen: 33.80 ppbv
RT: 5.44 min Scan# 762
Delta R.T. 0.03 min
Lab File: CAR035.D
Acq: 16 Sep 2008 12:34

Tgt Ion:166 Resp: 7666

Ion	Ratio	Lower	Upper
166	100		
164	78.6	63.1	94.7
131	72.4	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR036.D Vial: 1
Acq On : 16 Sep 2008 12:45 Operator: dlm
Sample : 51364\B2-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 12:57:35 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 06:10:49 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1844	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	6120	10.00 ppbv	0.01
12) Chlorobenzene-d5	5.82	117	5866	10.00 ppbv	0.03

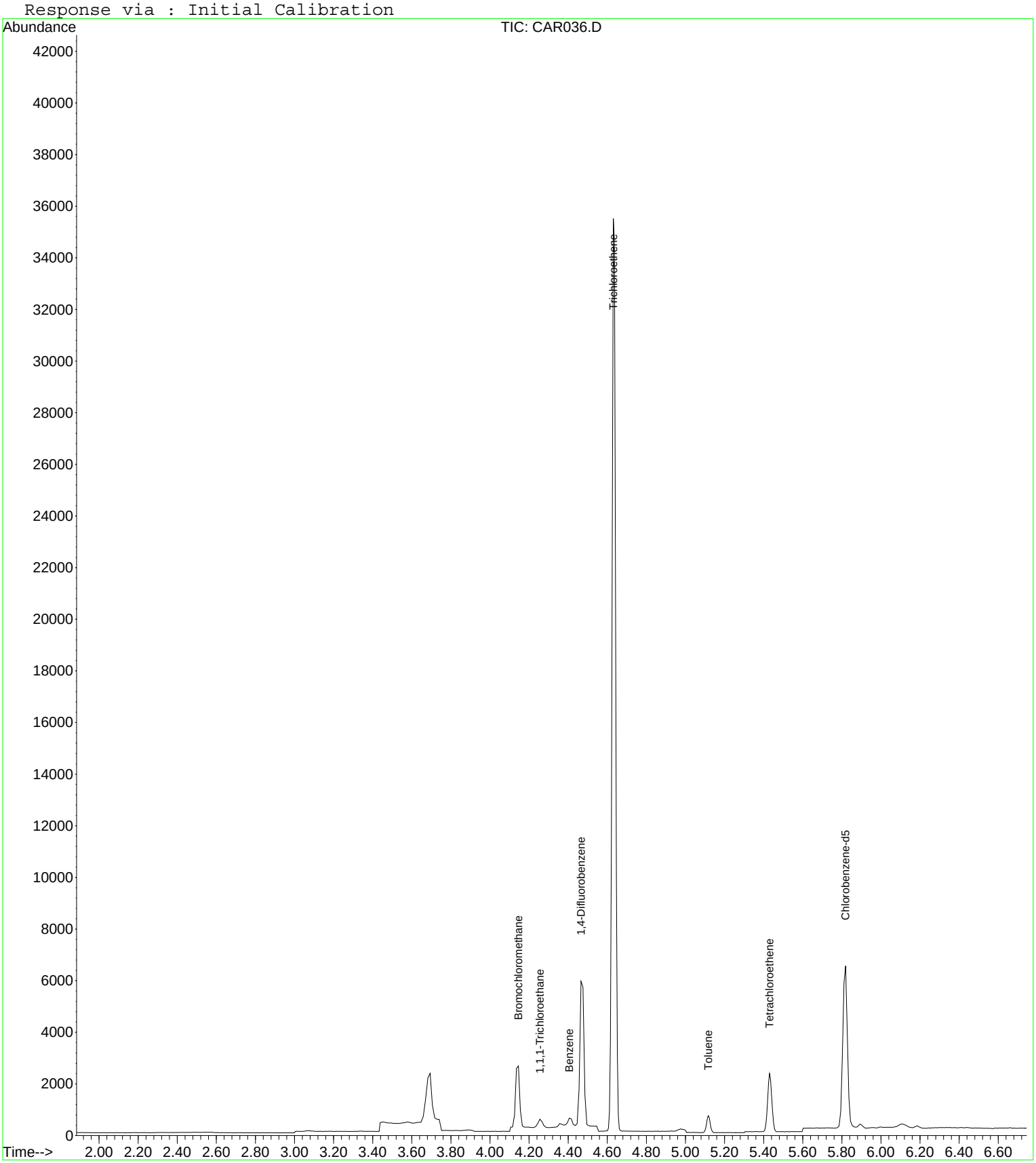
Target Compounds					Qvalue
8) 1,1,1-Trichloroethane	4.26	97	250	1.09 ppbv #	73
10) Benzene	4.41	78	332m	0.89 ppbv	
11) Trichloroethene	4.63	130	15885	87.65 ppbv	94
13) Toluene	5.12	91	528	1.48 ppbv	100
14) Tetrachloroethene	5.43	166	1339	6.25 ppbv	96

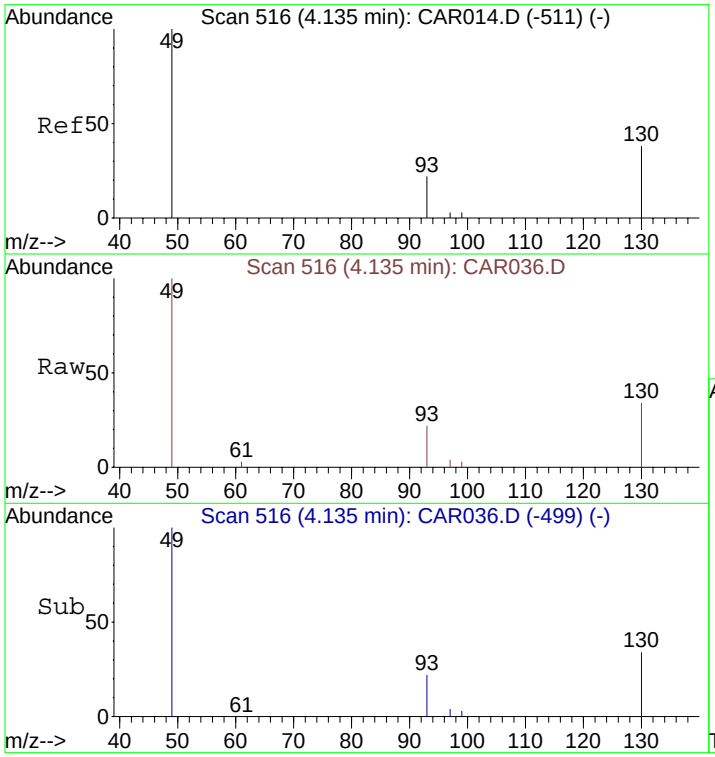
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR036.D Vial: 1
Acq On : 16 Sep 2008 12:45 Operator: dlm
Sample : 51364\B2-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:24 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Thu Oct 02 13:10:18 2008
Response via : Initial Calibration

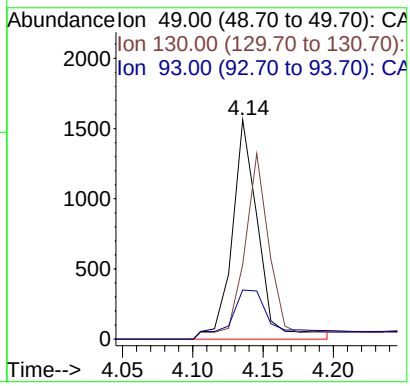


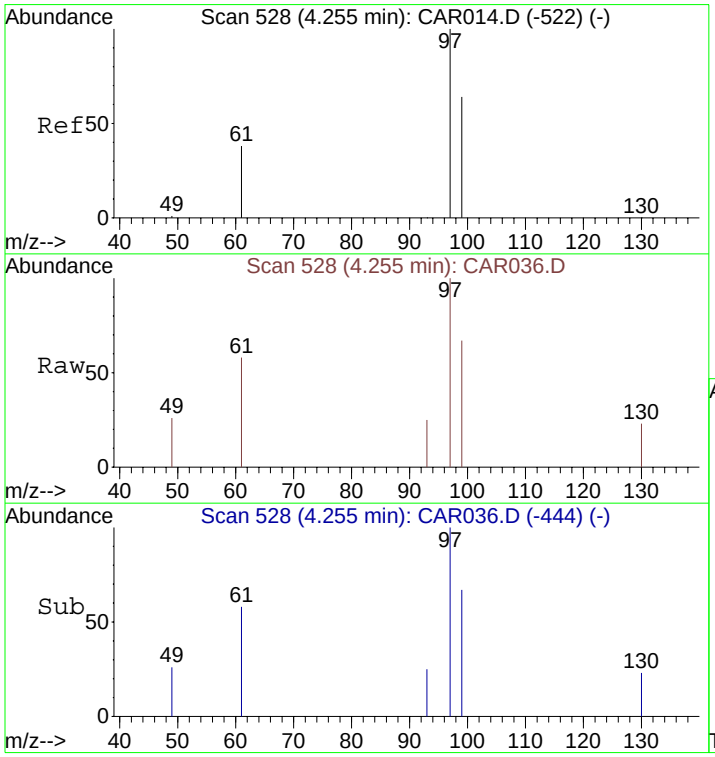


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR036.D
Acq: 16 Sep 2008 12:45

Tgt Ion: 49 Resp: 1844

Ion	Ratio	Lower	Upper
49	100		
130	81.8	65.1	97.7
93	37.3	33.8	50.6

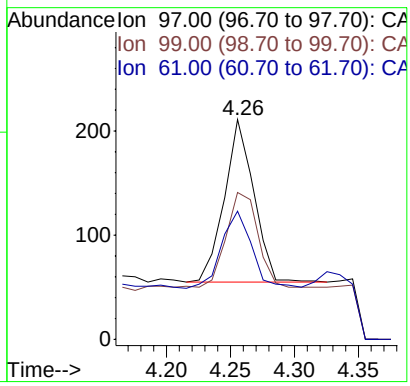


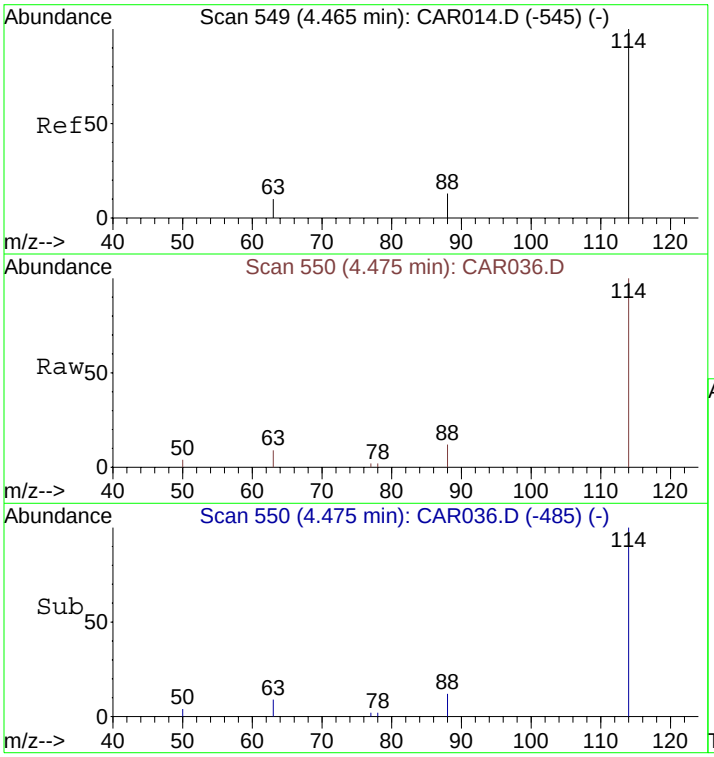


#8
1,1,1-Trichloroethane
Concen: 1.09 ppbv
RT: 4.26 min Scan# 528
Delta R.T. 0.00 min
Lab File: CAR036.D
Acq: 16 Sep 2008 12:45

Tgt Ion: 97 Resp: 250

Ion	Ratio	Lower	Upper
97	100		
99	62.0	51.8	77.8
61	80.0	32.1	48.1#

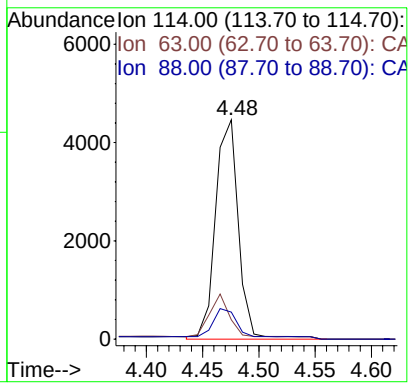


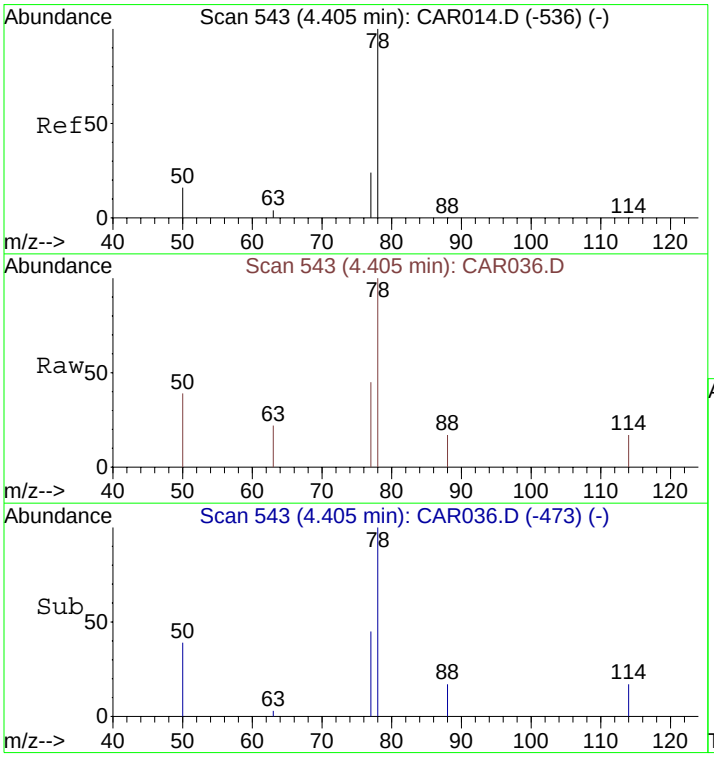


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR036.D
Acq: 16 Sep 2008 12:45

Tgt Ion:114 Resp: 6120

Ion	Ratio	Lower	Upper
114	100		
63	17.5	15.8	23.8
88	13.7	12.2	18.2

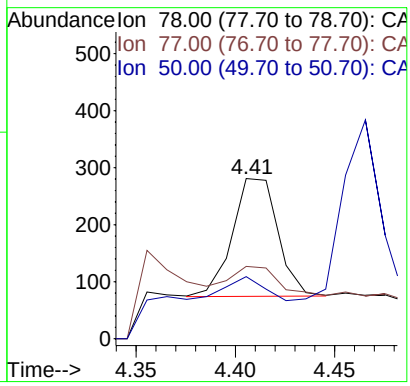


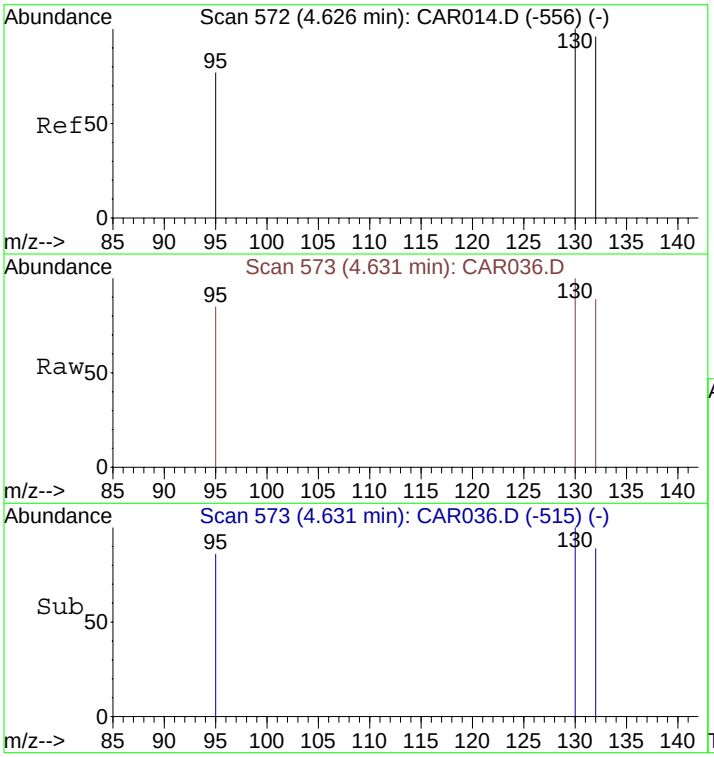


#10
Benzene
Concen: 0.89 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR036.D
Acq: 16 Sep 2008 12:45

Tgt Ion: 78 Resp: 332

Ion	Ratio	Lower	Upper
78	100		
77	18.4	18.6	28.0#
50	14.2	16.2	24.4#

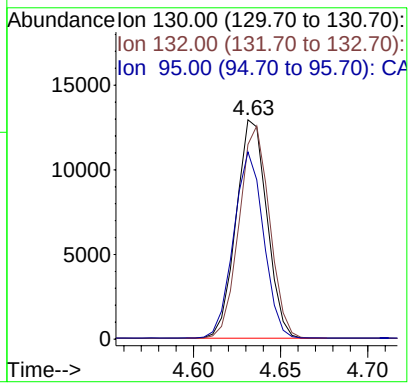


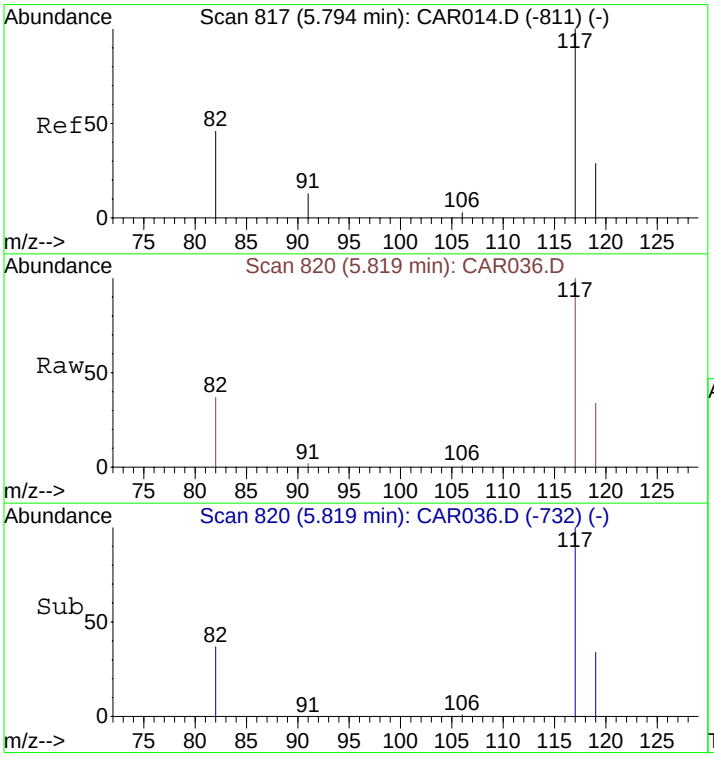


#11
Trichloroethene
Concen: 87.65 ppbv
RT: 4.63 min Scan# 573
Delta R.T. 0.01 min
Lab File: CAR036.D
Acq: 16 Sep 2008 12:45

Tgt Ion:130 Resp: 15885

Ion	Ratio	Lower	Upper
130	100		
132	95.8	73.8	110.6
95	82.7	72.5	108.7

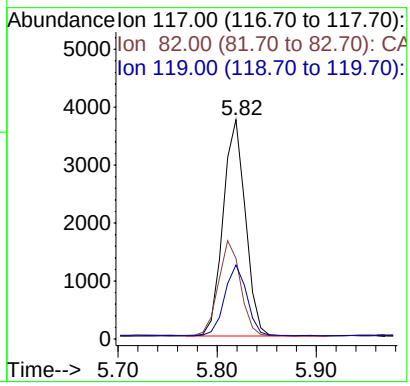


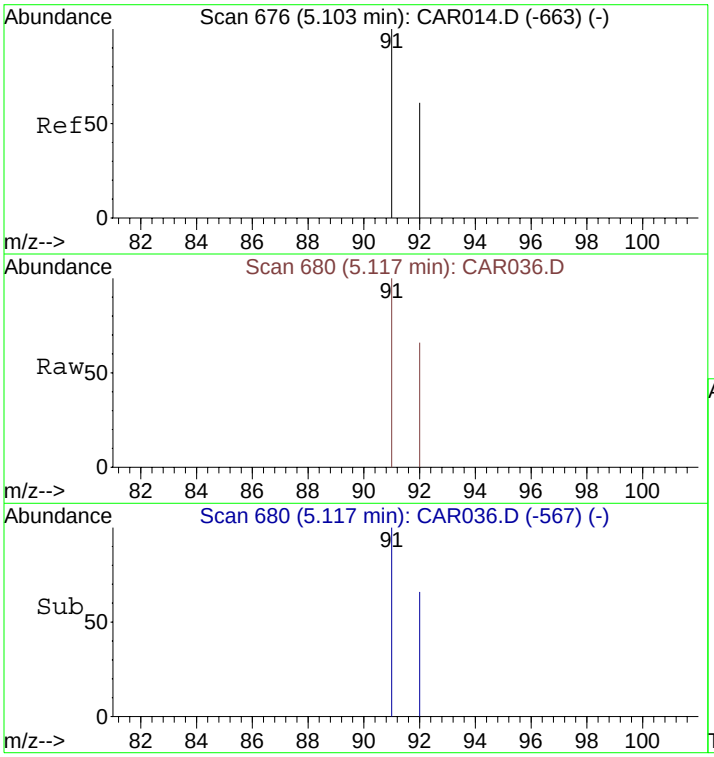


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.82 min Scan# 820
Delta R.T. 0.03 min
Lab File: CAR036.D
Acq: 16 Sep 2008 12:45

Tgt Ion:117 Resp: 5866

Ion	Ratio	Lower	Upper
117	100		
82	43.2	38.3	57.5
119	32.3	26.0	39.0

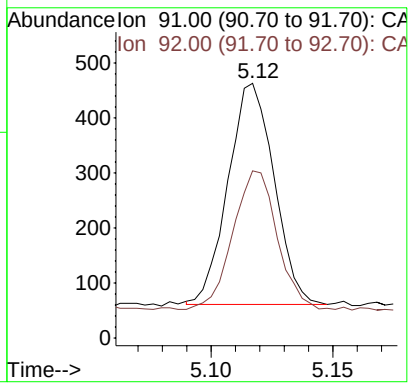


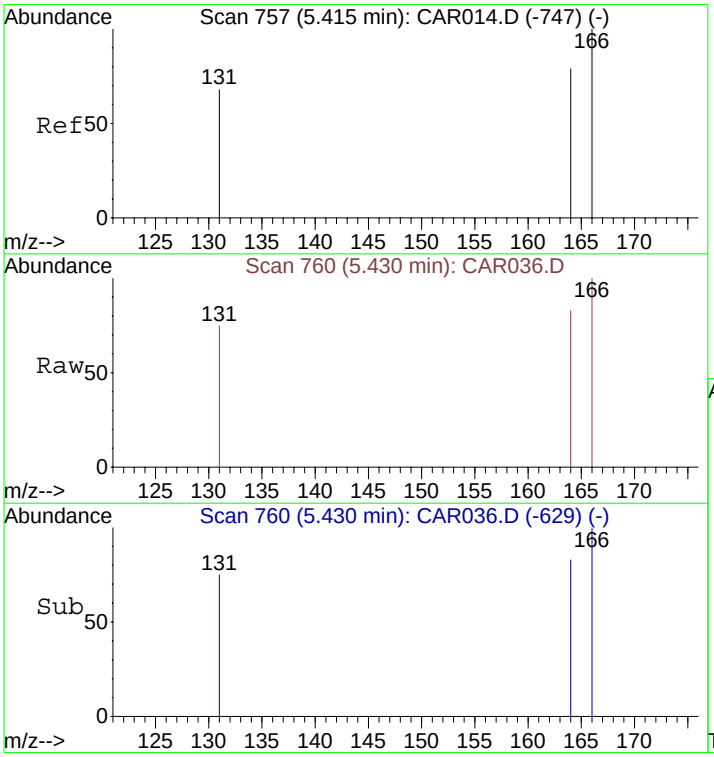


#13
Toluene
Concen: 1.48 ppbv
RT: 5.12 min Scan# 680
Delta R.T. 0.01 min
Lab File: CAR036.D
Acq: 16 Sep 2008 12:45

Tgt Ion: 91 Resp: 528

Ion	Ratio	Lower	Upper
91	100		
92	60.2	48.2	72.2

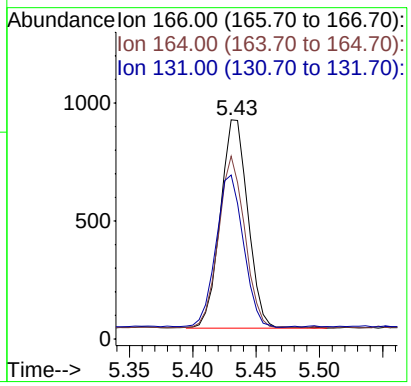




#14
Tetrachloroethene
Concen: 6.25 ppbv
RT: 5.43 min Scan# 760
Delta R.T. 0.02 min
Lab File: CAR036.D
Acq: 16 Sep 2008 12:45

Tgt Ion:166 Resp: 1339

Ion	Ratio	Lower	Upper
166	100		
164	77.5	63.1	94.7
131	72.5	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR037.D Vial: 1
Acq On : 16 Sep 2008 12:56 Operator: dlm
Sample : 51365\B3-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 14:02:10 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 06:10:49 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1928	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	6348	10.00 ppbv	0.02
12) Chlorobenzene-d5	5.84	117	6242	10.00 ppbv	0.05

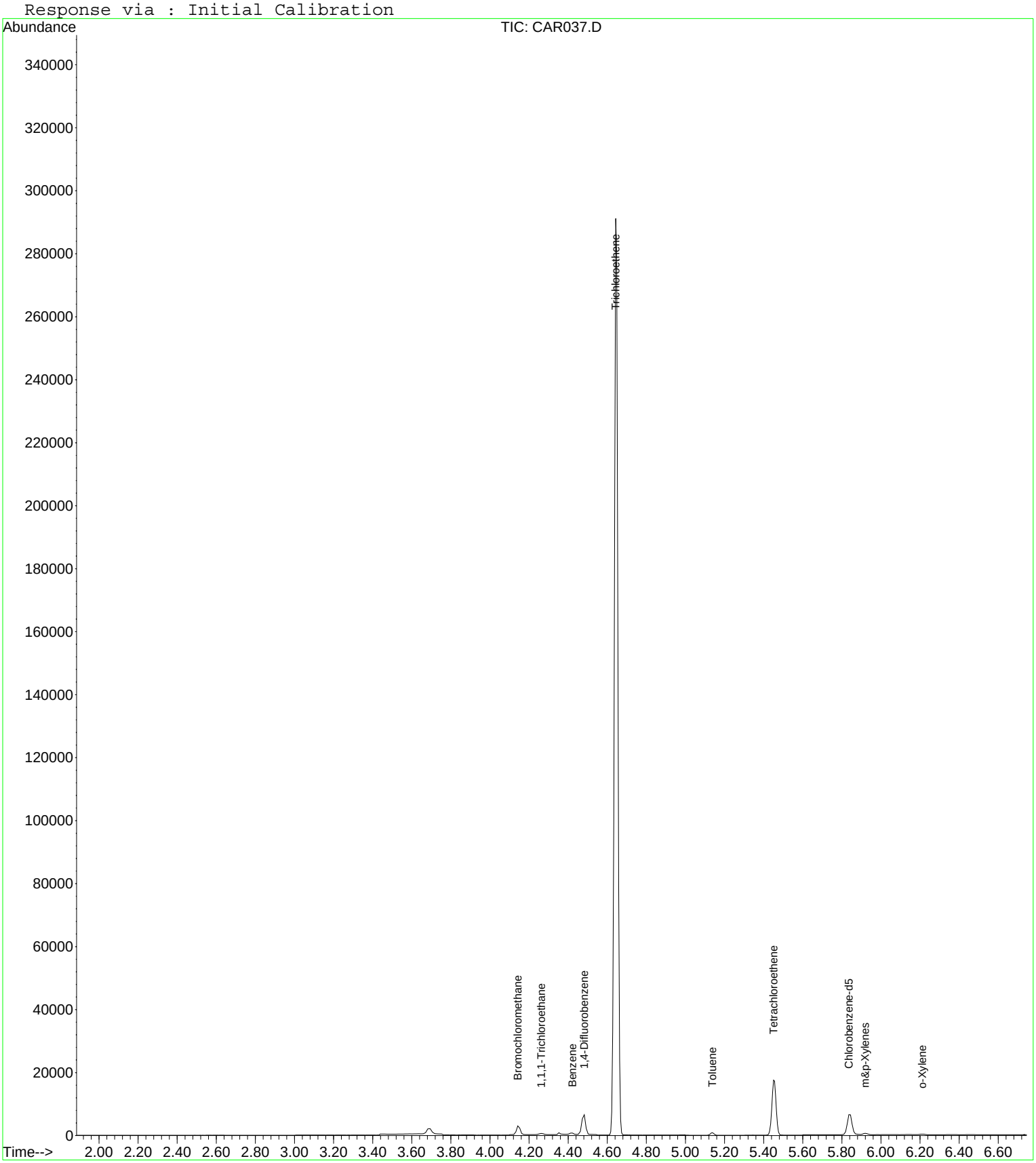
Target Compounds					Qvalue
8) 1,1,1-Trichloroethane	4.26	97	310m	1.29 ppbv	
10) Benzene	4.42	78	445m	1.15 ppbv	
11) Trichloroethene	4.64	130	131025	697.01 ppbv	94
13) Toluene	5.13	91	644	1.70 ppbv	100
14) Tetrachloroethene	5.46	166	10481	45.97 ppbv	96
16) m&p-Xylenes	5.92	91	483	1.56 ppbv	94
17) o-Xylene	6.21	91	227m	0.64 ppbv	

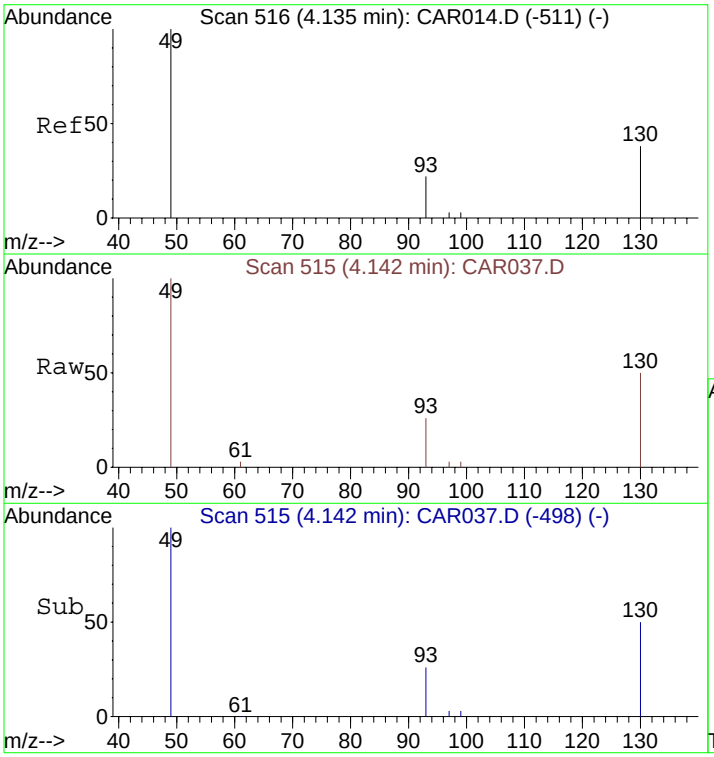
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR037.D Vial: 1
Acq On : 16 Sep 2008 12:56 Operator: dlm
Sample : 51365\B3-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 11:35 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 10:37:21 2008
Response via : Initial Calibration

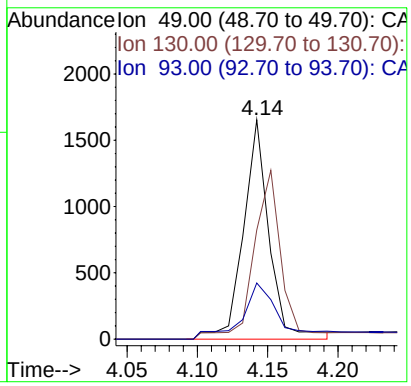


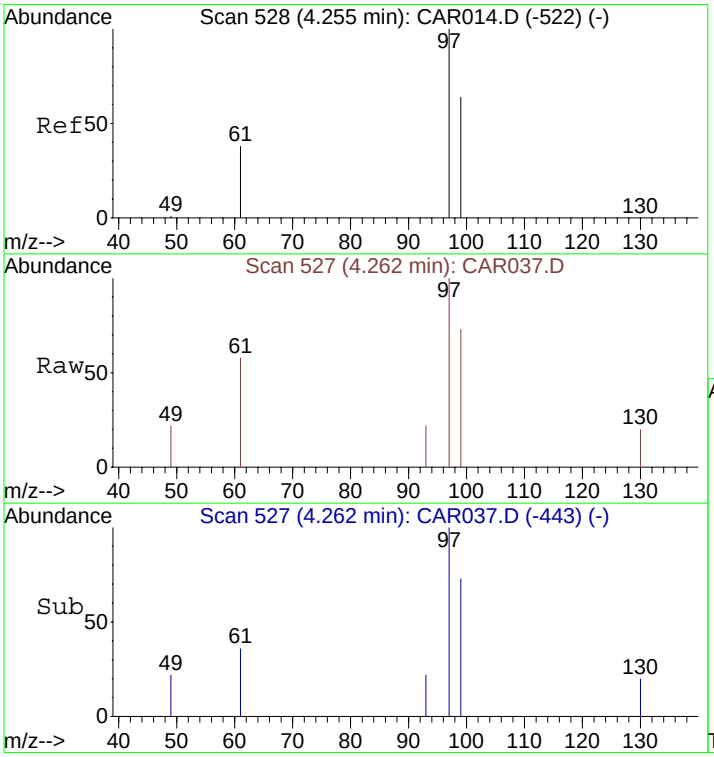


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 515
Delta R.T. 0.01 min
Lab File: CAR037.D
Acq: 16 Sep 2008 12:56

Tgt Ion: 49 Resp: 1928

Ion	Ratio	Lower	Upper
49	100		
130	82.0	65.1	97.7
93	35.1	33.8	50.6

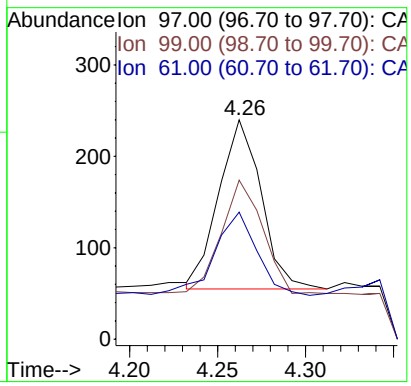


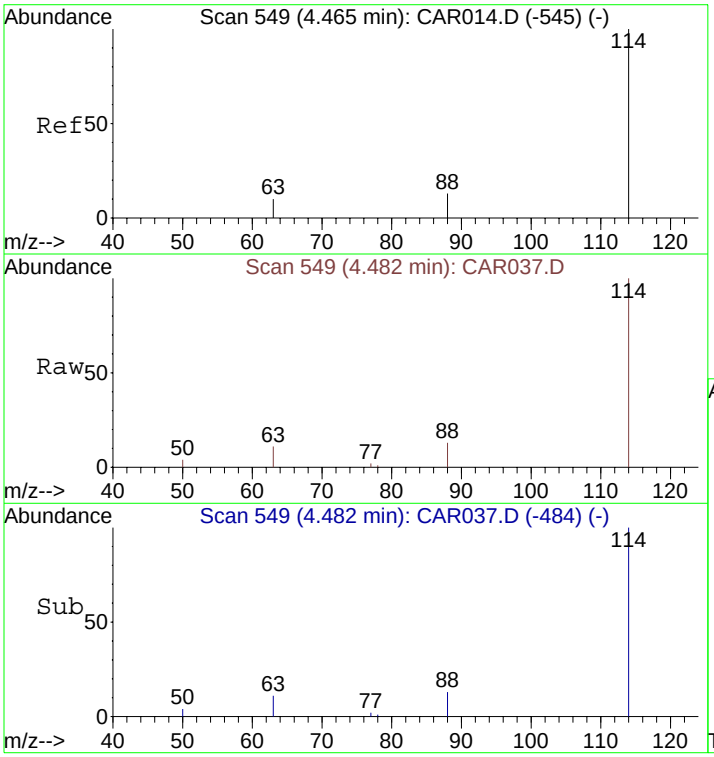


#8
1,1,1-Trichloroethane
Concen: 1.29 ppbv m
RT: 4.26 min Scan# 527
Delta R.T. 0.01 min
Lab File: CAR037.D
Acq: 16 Sep 2008 12:56

Tgt Ion: 97 Resp: 310

Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.8	77.8
61	48.7	32.1	48.1#

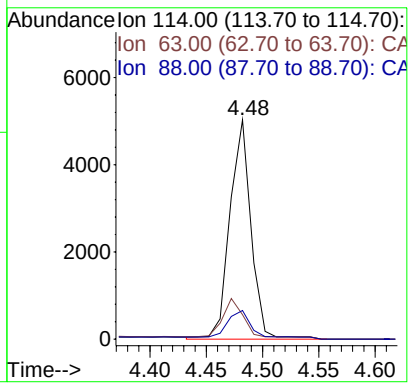


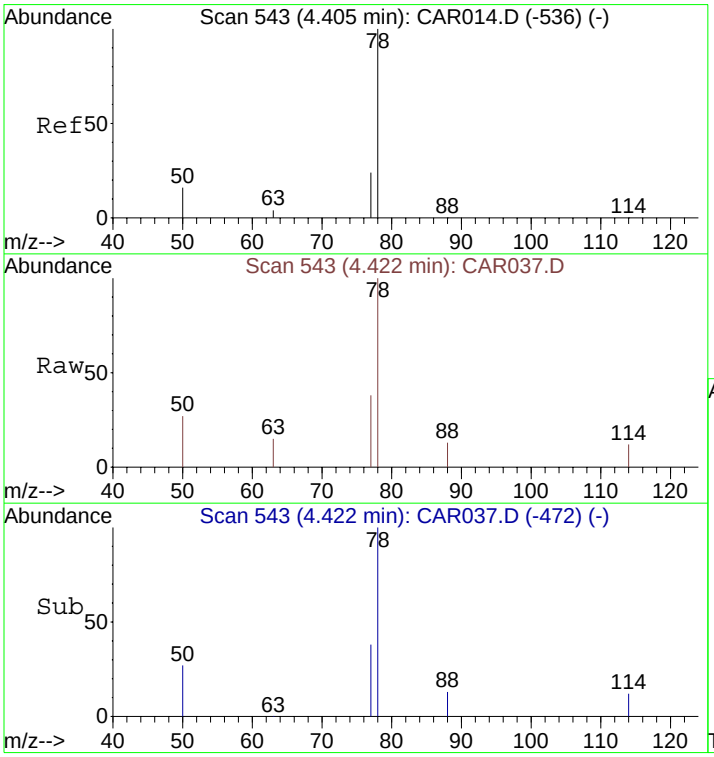


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 549
Delta R.T. 0.02 min
Lab File: CAR037.D
Acq: 16 Sep 2008 12:56

Tgt Ion:114 Resp: 6348

Ion	Ratio	Lower	Upper
114	100		
63	21.6	15.8	23.8
88	16.5	12.2	18.2

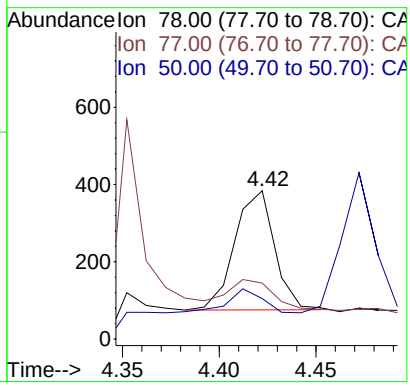


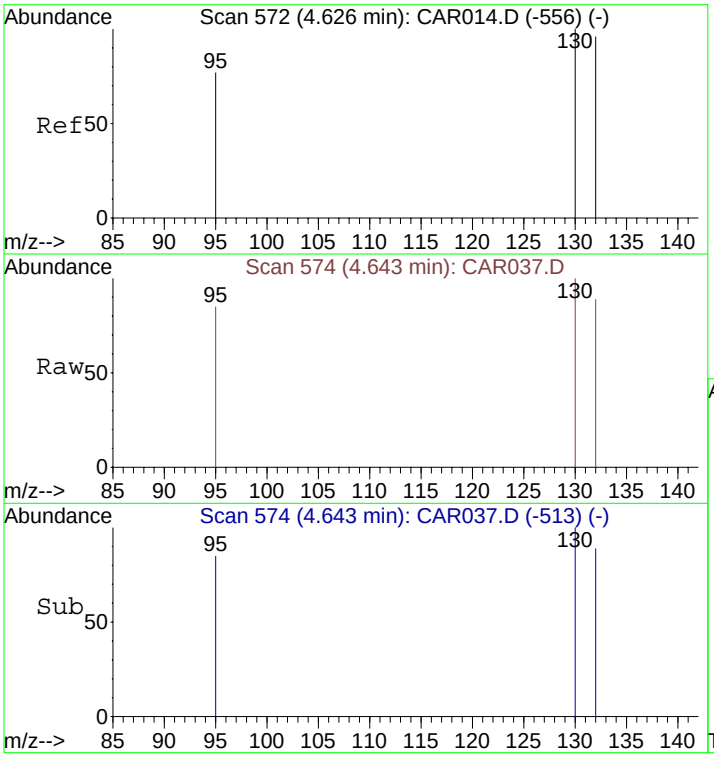


#10
Benzene
Concen: 1.15 ppbv m
RT: 4.42 min Scan# 543
Delta R.T. 0.02 min
Lab File: CAR037.D
Acq: 16 Sep 2008 12:56

Tgt Ion: 78 Resp: 445

Ion	Ratio	Lower	Upper
78	100		
77	19.6	18.6	28.0
50	11.2	16.2	24.4#

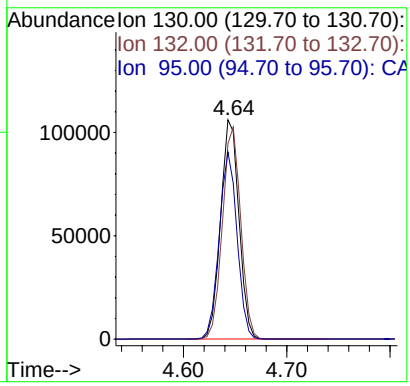


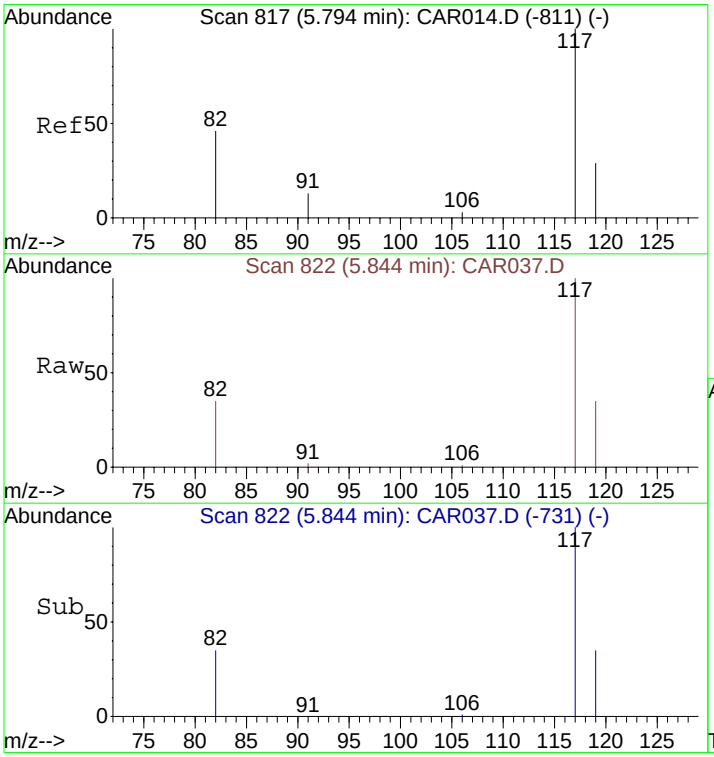


#11
Trichloroethene
Concen: 697.01 ppbv
RT: 4.64 min Scan# 574
Delta R.T. 0.02 min
Lab File: CAR037.D
Acq: 16 Sep 2008 12:56

Tgt Ion:130 Resp: 131025

Ion	Ratio	Lower	Upper
130	100		
132	96.3	73.8	110.6
95	83.1	72.5	108.7

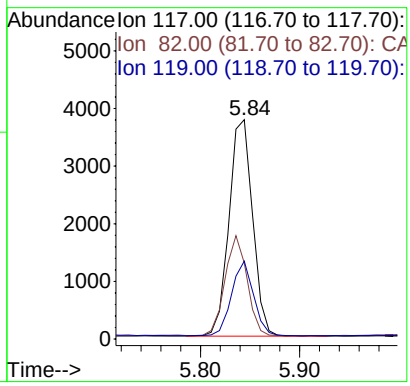


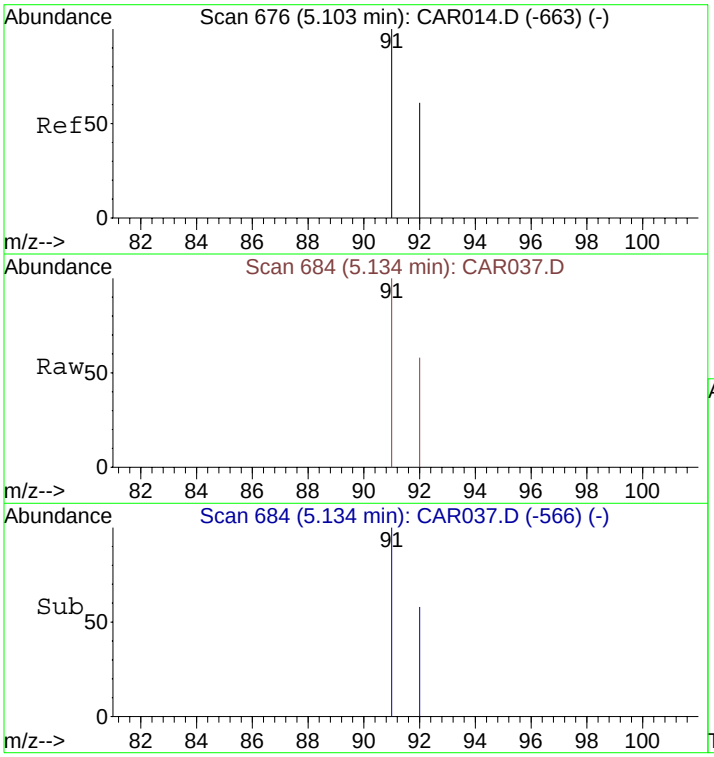


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.84 min Scan# 822
Delta R.T. 0.05 min
Lab File: CAR037.D
Acq: 16 Sep 2008 12:56

Tgt Ion:117 Resp: 6242

Ion	Ratio	Lower	Upper
117	100		
82	42.9	38.3	57.5
119	32.2	26.0	39.0

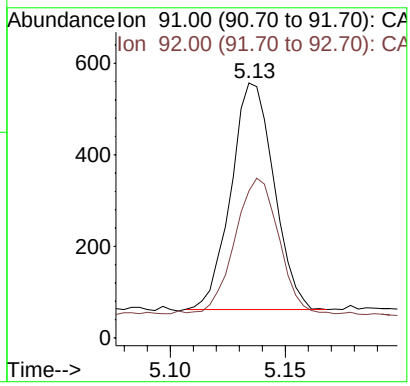


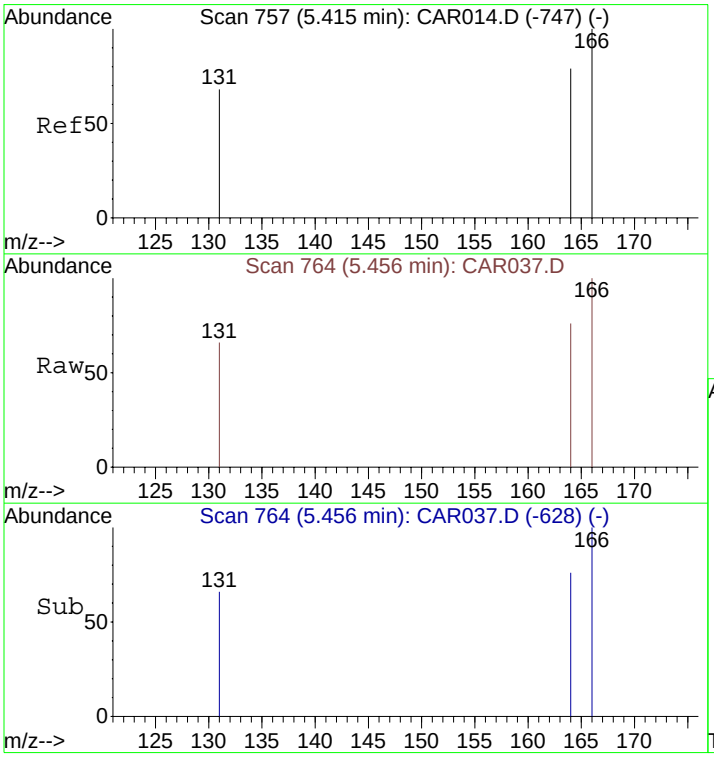


#13
Toluene
Concen: 1.70 ppbv
RT: 5.13 min Scan# 684
Delta R.T. 0.03 min
Lab File: CAR037.D
Acq: 16 Sep 2008 12:56

Tgt Ion: 91 Resp: 644

Ion	Ratio	Lower	Upper
91	100		
92	60.6	48.2	72.2

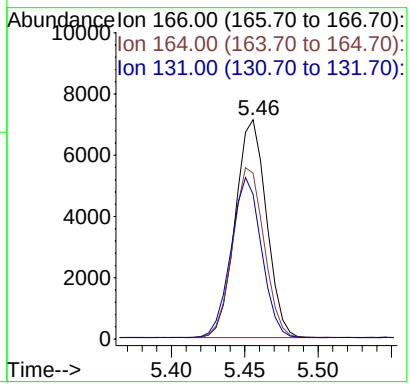


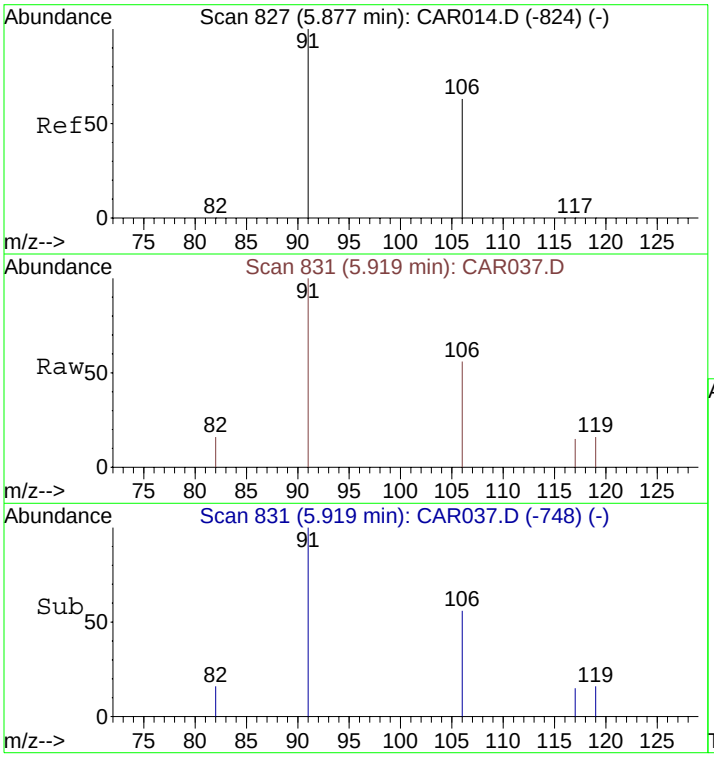


#14
Tetrachloroethene
Concen: 45.97 ppbv
RT: 5.46 min Scan# 764
Delta R.T. 0.04 min
Lab File: CAR037.D
Acq: 16 Sep 2008 12:56

Tgt Ion:166 Resp: 10481

Ion	Ratio	Lower	Upper
166	100		
164	78.4	63.1	94.7
131	71.9	62.9	94.3

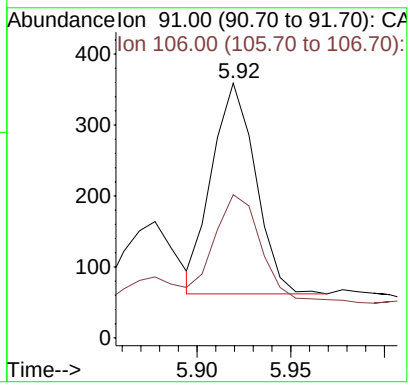


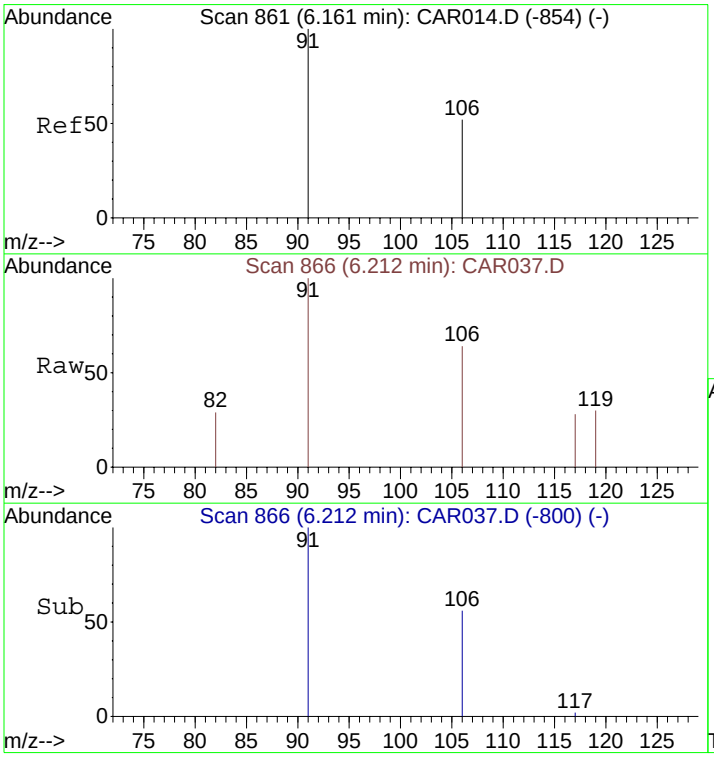


#16
m&p-Xylenes
Concen: 1.56 ppbv
RT: 5.92 min Scan# 831
Delta R.T. 0.04 min
Lab File: CAR037.D
Acq: 16 Sep 2008 12:56

Tgt Ion: 91 Resp: 483

Ion	Ratio	Lower	Upper
91	100		
106	56.7	41.8	62.8

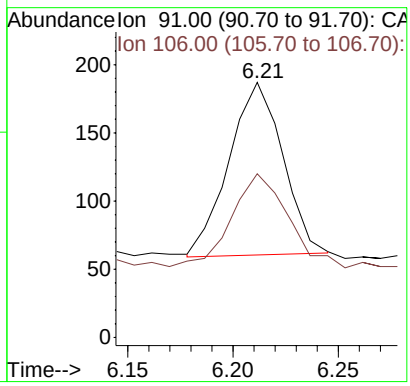




#17
o-Xylene
Concen: 0.64 ppbv m
RT: 6.21 min Scan# 866
Delta R.T. 0.05 min
Lab File: CAR037.D
Acq: 16 Sep 2008 12:56

Tgt Ion: 91 Resp: 227

Ion	Ratio	Lower	Upper
91	100		
106	45.4	38.9	58.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR038.D Vial: 1
Acq On : 16 Sep 2008 13:56 Operator: dlm
Sample : 51372\D2-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 16 14:09:12 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 06:10:49 2008
Response via : Initial Calibration
DataAcq Meth : BFB

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1891	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	6415	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.81	117	6261	10.00 ppbv	0.02

Target Compounds					Qvalue
7) cis-1,2-Dichloroethene	4.02	61	142m	8.94 ppbv	
8) 1,1,1-Trichloroethane	4.26	97	305m	12.92 ppbv	
10) Benzene	4.41	78	319m	8.18 ppbv	
11) Trichloroethene	4.63	130	220308	11597.32 ppbv *	96
14) Tetrachloroethene	5.43	166	606	26.50 ppbv	96

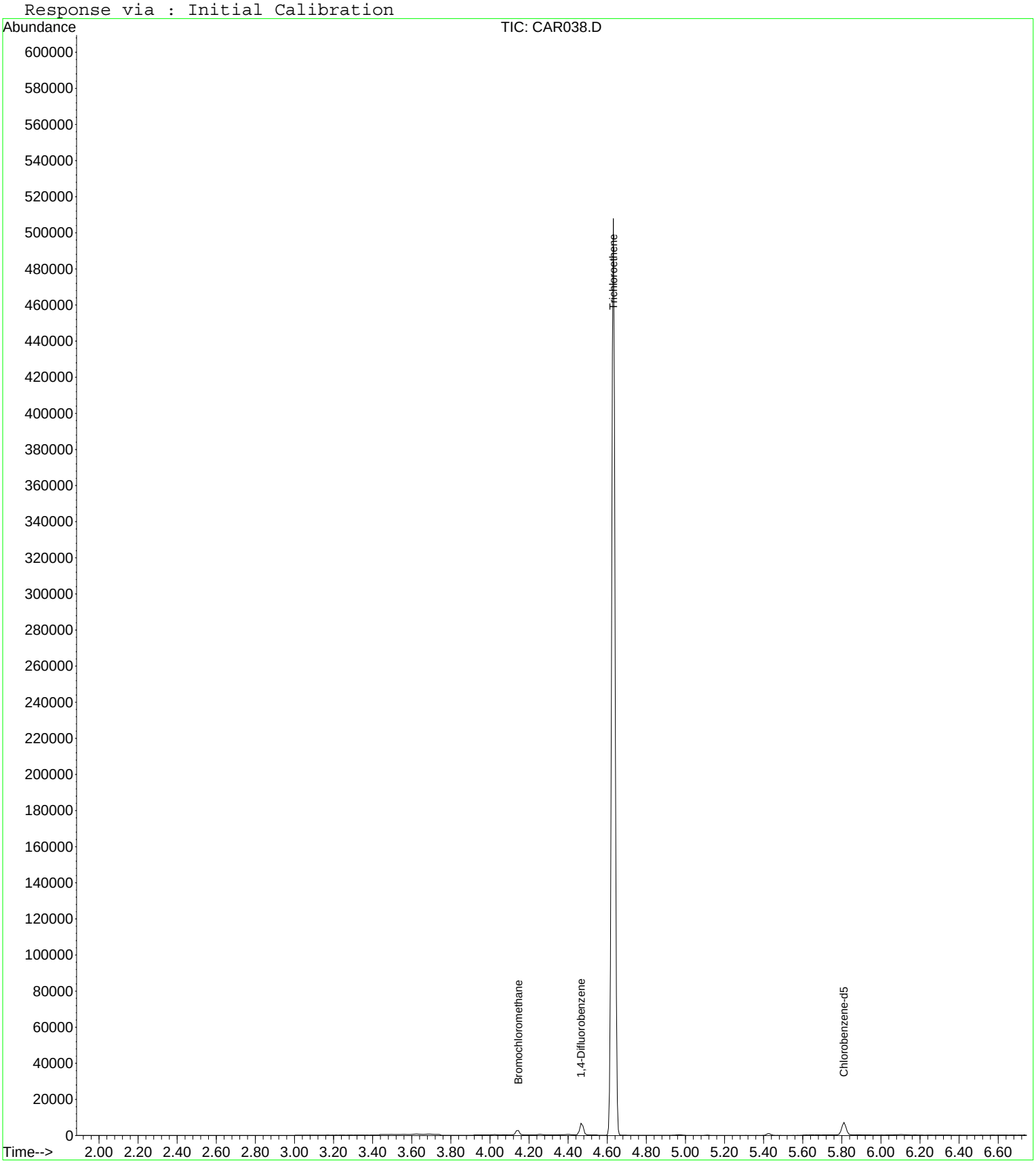
* Value report in file CAR035

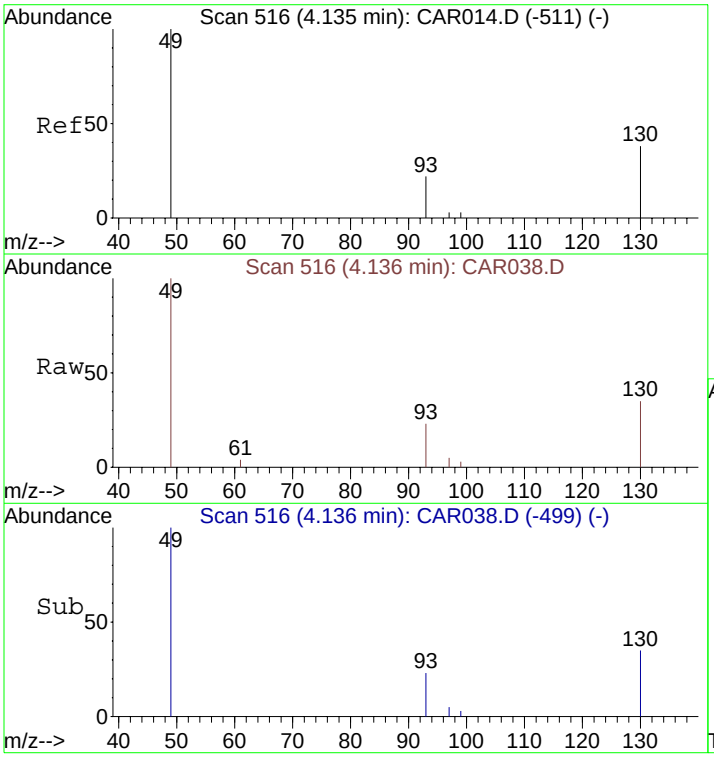
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR038.D Vial: 1
Acq On : 16 Sep 2008 13:56 Operator: dlm
Sample : 51372\D2-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 29 11:39 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 10:37:21 2008
Response via : Initial Calibration

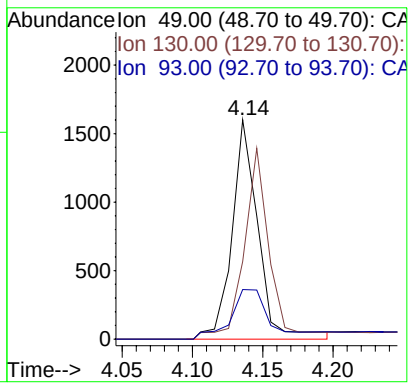


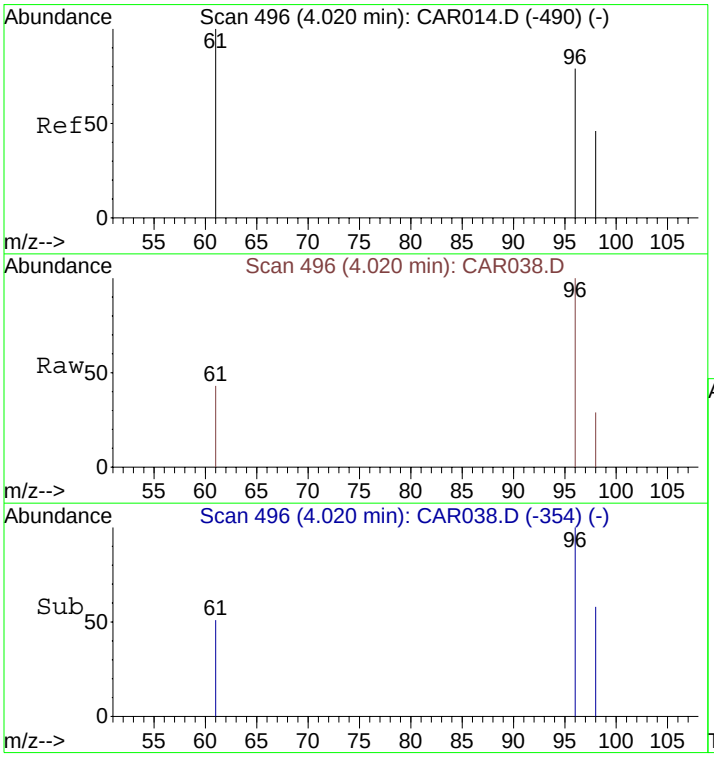


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR038.D
Acq: 16 Sep 2008 13:56

Tgt Ion: 49 Resp: 1891

Ion	Ratio	Lower	Upper
49	100		
130	81.9	65.1	97.7
93	32.1	33.8	50.6#

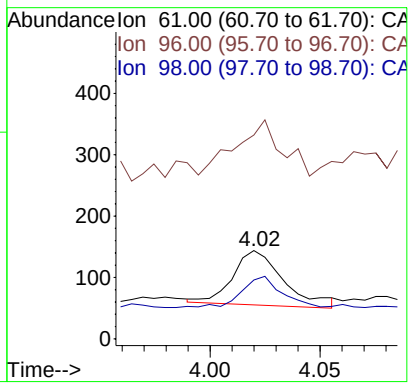


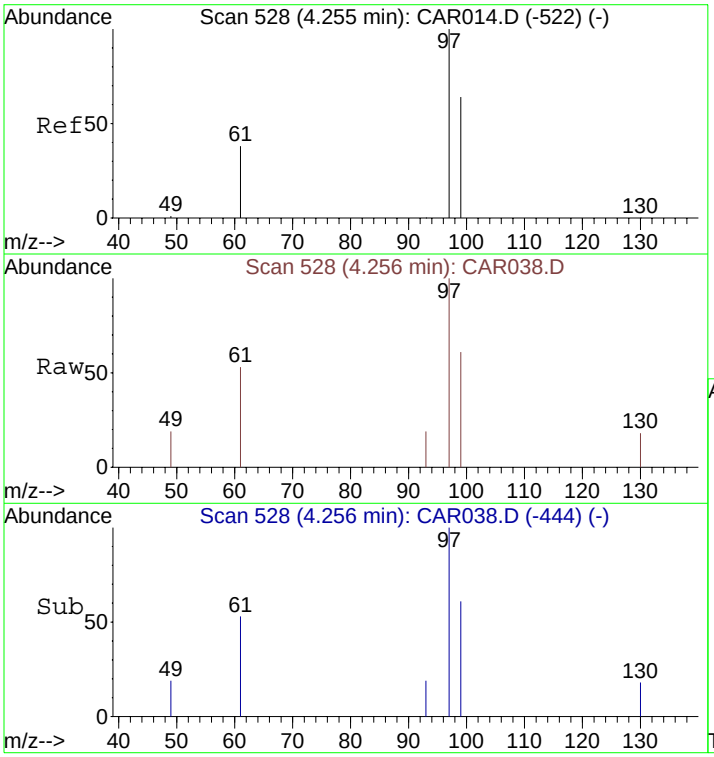


#7
cis-1,2-Dichloroethene
Concen: 8.94 ppbv m
RT: 4.02 min Scan# 496
Delta R.T. 0.40 min
Lab File: CAR038.D
Acq: 16 Sep 2008 13:56

Tgt Ion: 61 Resp: 142

Ion	Ratio	Lower	Upper
61	100		
96	96.5	56.0	84.0#
98	39.4	36.2	54.4

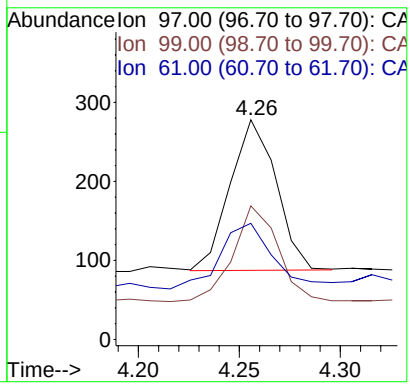


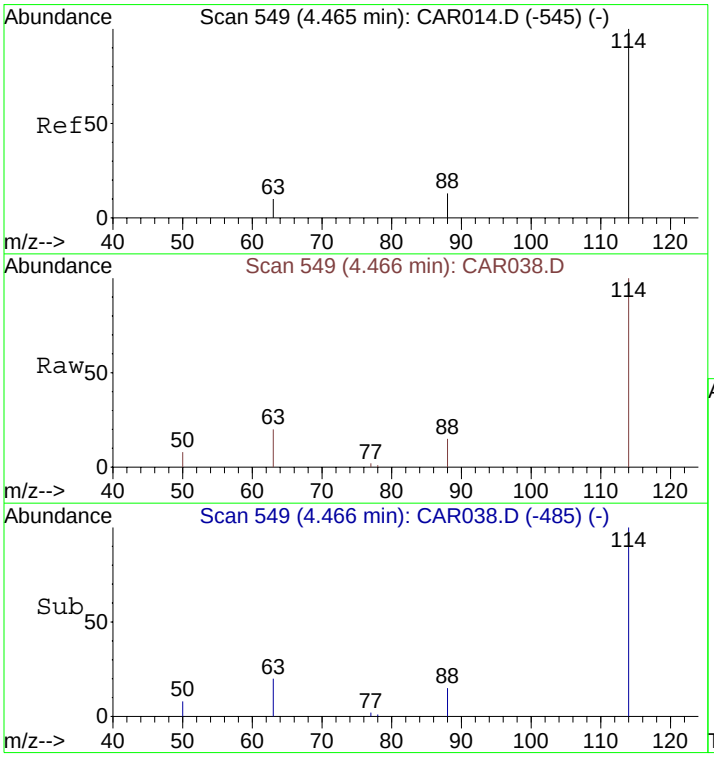


#8
1,1,1-Trichloroethane
Concen: 12.92 ppbv m
RT: 4.26 min Scan# 528
Delta R.T. 0.00 min
Lab File: CAR038.D
Acq: 16 Sep 2008 13:56

Tgt Ion: 97 Resp: 305

Ion	Ratio	Lower	Upper
97	100		
99	61.6	51.8	77.8
61	50.5	32.1	48.1#

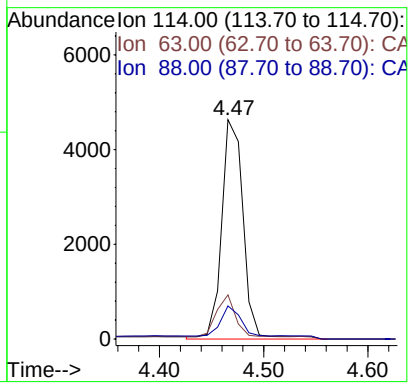


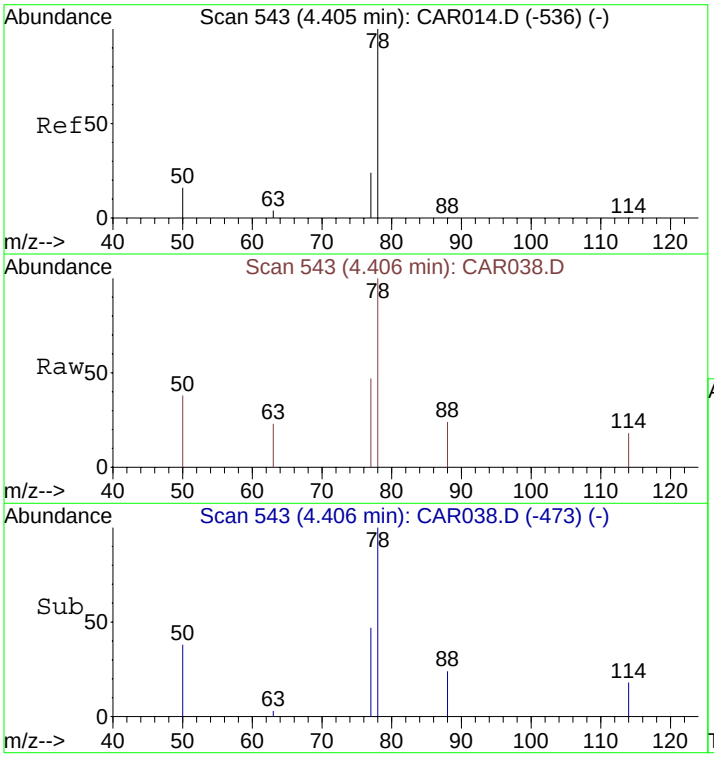


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. 0.00 min
Lab File: CAR038.D
Acq: 16 Sep 2008 13:56

Tgt Ion:114 Resp: 6415

Ion	Ratio	Lower	Upper
114	100		
63	22.2	15.8	23.8
88	13.6	12.2	18.2

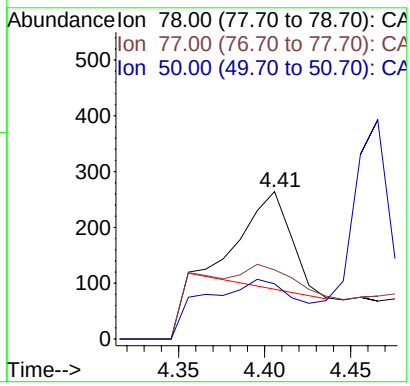


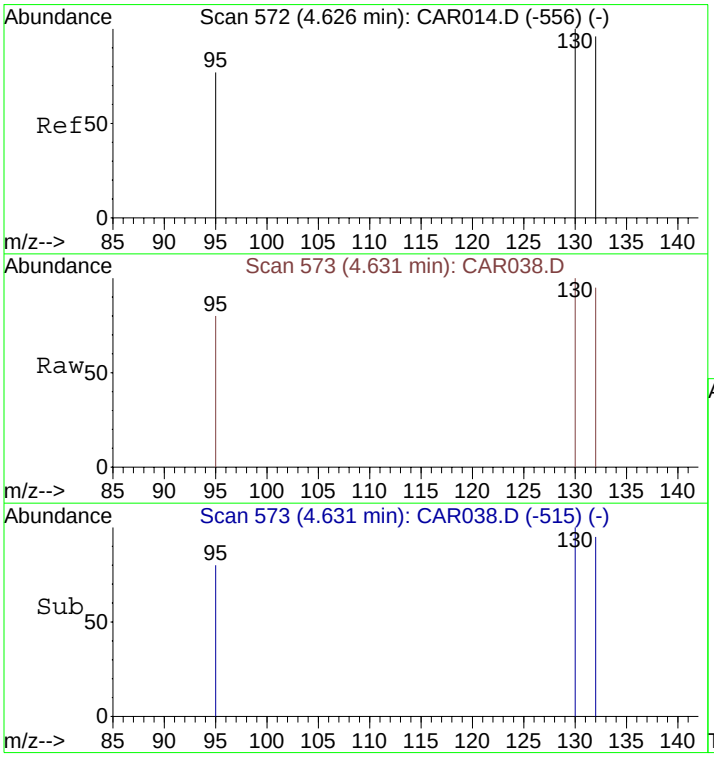


#10
Benzene
Concen: 8.18 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR038.D
Acq: 16 Sep 2008 13:56

Tgt Ion: 78 Resp: 319

Ion	Ratio	Lower	Upper
78	100		
77	25.1	18.6	28.0
50	16.3	16.2	24.4

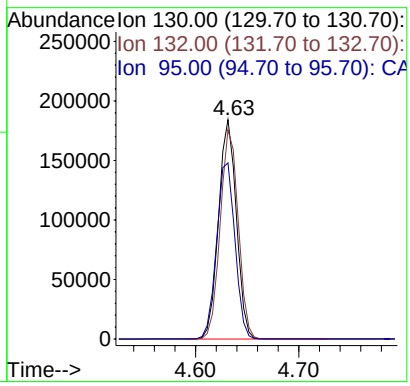


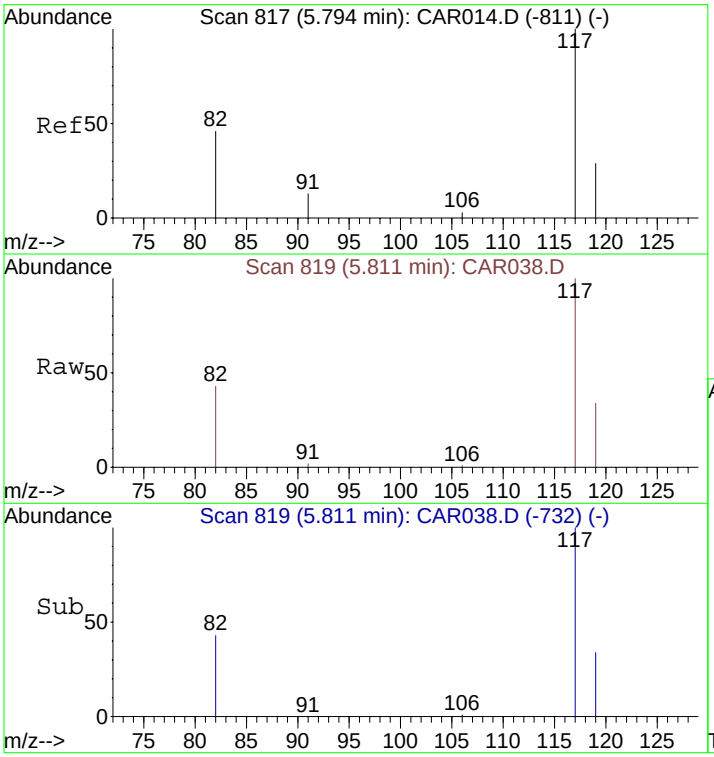


#11
Trichloroethene
Concen: 11597.32 ppbv
RT: 4.63 min Scan# 573
Delta R.T. 0.01 min
Lab File: CAR038.D
Acq: 16 Sep 2008 13:56

Tgt Ion:130 Resp: 220308

Ion	Ratio	Lower	Upper
130	100		
132	96.4	73.8	110.6
95	87.9	72.5	108.7

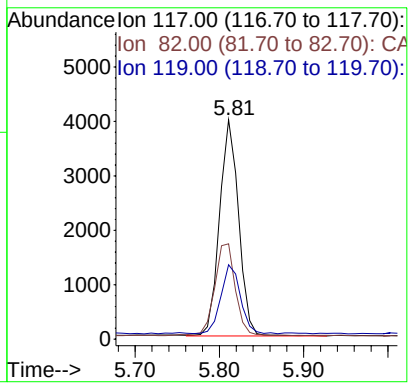


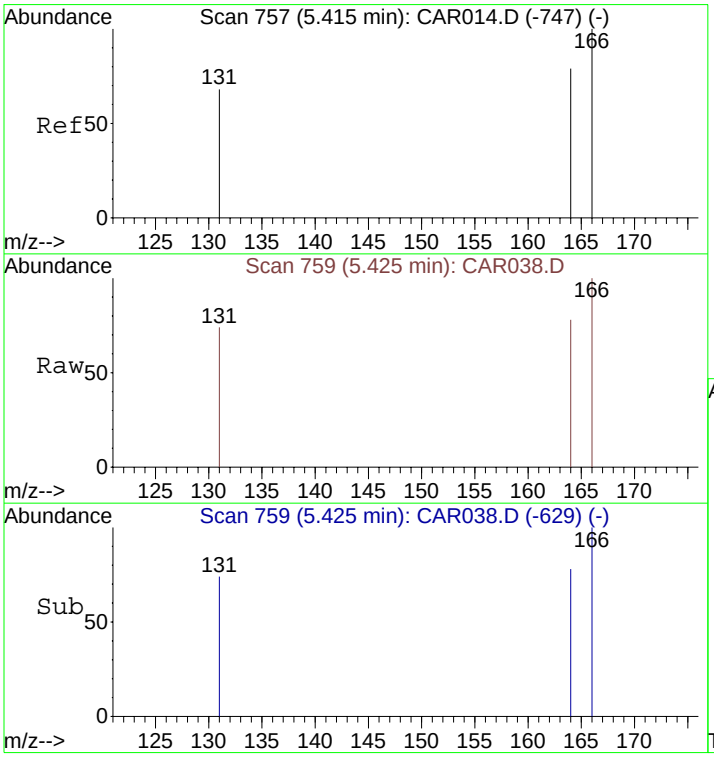


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.81 min Scan# 819
Delta R.T. 0.02 min
Lab File: CAR038.D
Acq: 16 Sep 2008 13:56

Tgt Ion:117 Resp: 6261

Ion	Ratio	Lower	Upper
117	100		
82	46.2	38.3	57.5
119	32.5	26.0	39.0

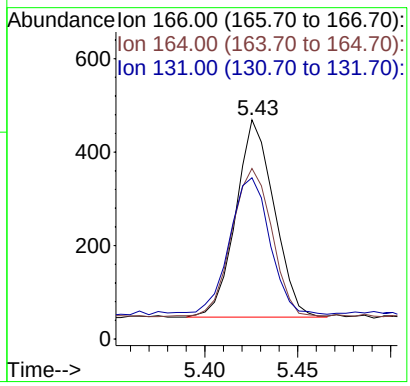




#14
Tetrachloroethene
Concen: 26.50 ppbv
RT: 5.43 min Scan# 759
Delta R.T. 0.01 min
Lab File: CAR038.D
Acq: 16 Sep 2008 13:56

Tgt Ion:166 Resp: 606

Ion	Ratio	Lower	Upper
166	100		
164	77.6	63.1	94.7
131	72.3	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR039.D Vial: 1
Acq On : 16 Sep 2008 14:17 Operator: dlm
Sample : 51366\A3-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 14:25:27 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 06:10:49 2008
Response via : Initial Calibration
DataAcq Meth : BFB

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1866	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	6187	10.00 ppbv	0.01
12) Chlorobenzene-d5	5.83	117	5917	10.00 ppbv	0.03

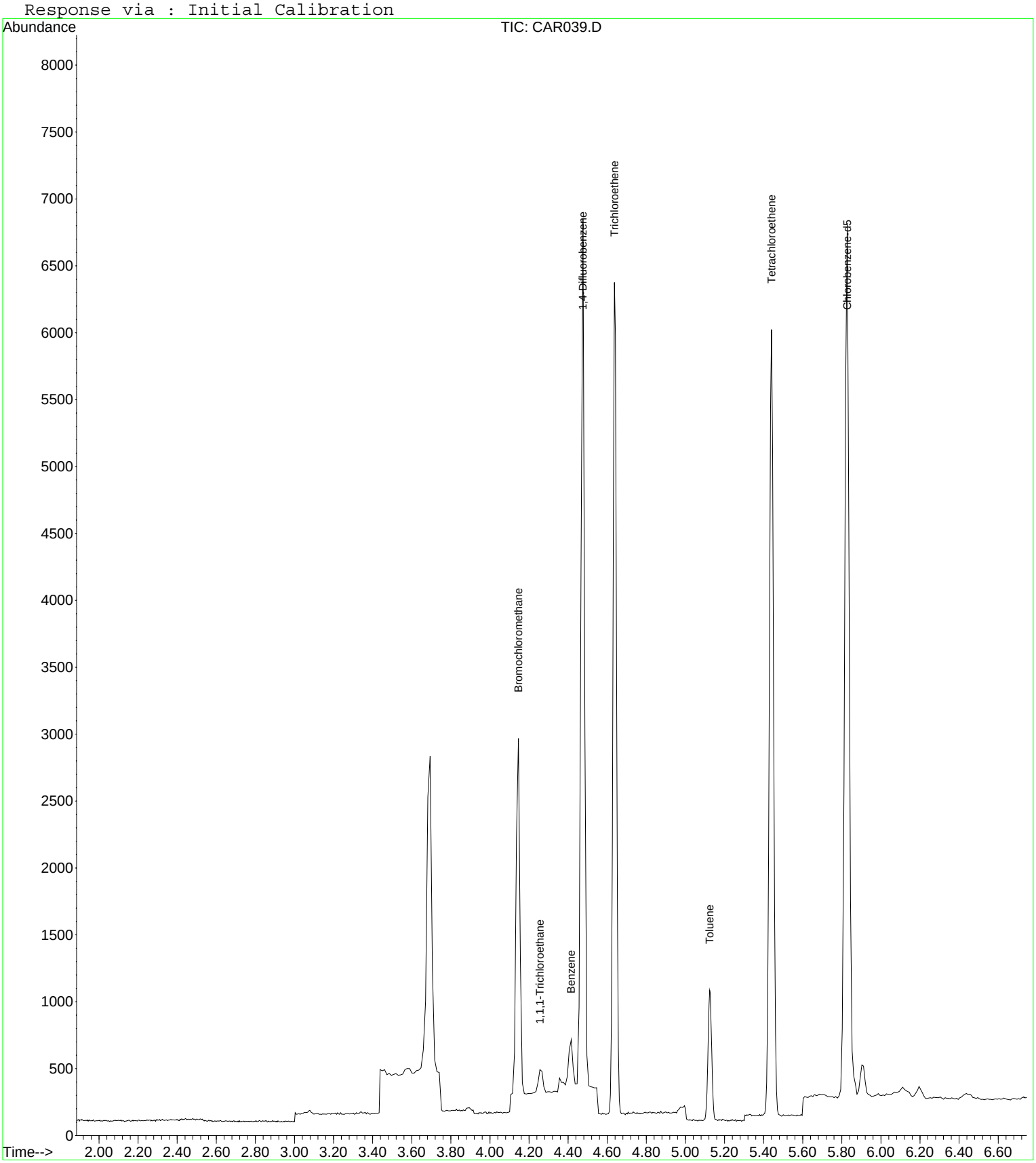
Target Compounds					Qvalue
8) 1,1,1-Trichloroethane	4.26	97	142m	0.61 ppbv	
10) Benzene	4.42	78	346m	0.92 ppbv	
11) Trichloroethene	4.64	130	2822	15.40 ppbv	94
13) Toluene	5.12	91	788	2.19 ppbv	100
14) Tetrachloroethene	5.44	166	3413	15.79 ppbv	97

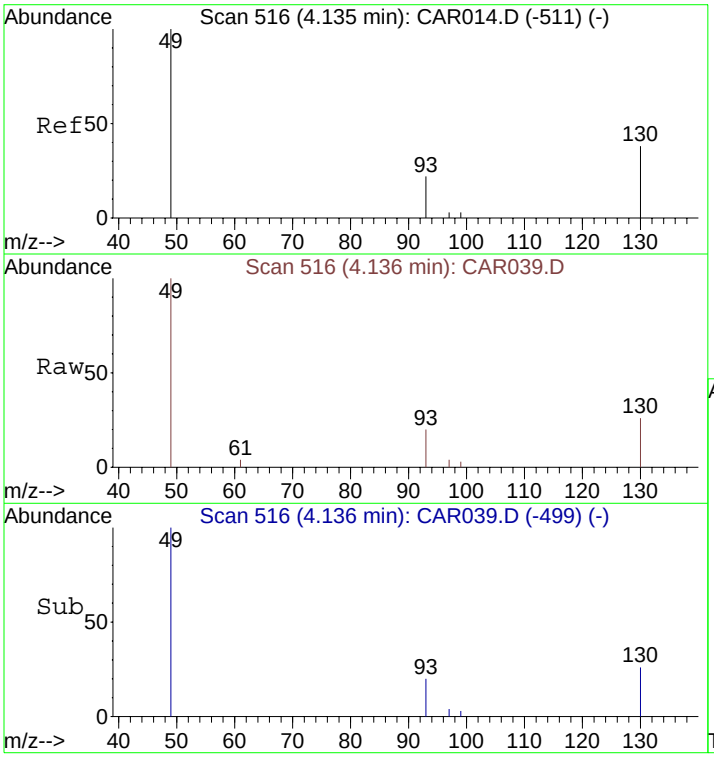
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR039.D Vial: 1
Acq On : 16 Sep 2008 14:17 Operator: dlm
Sample : 51366\A3-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:29 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Thu Oct 02 13:10:18 2008
Response via : Initial Calibration

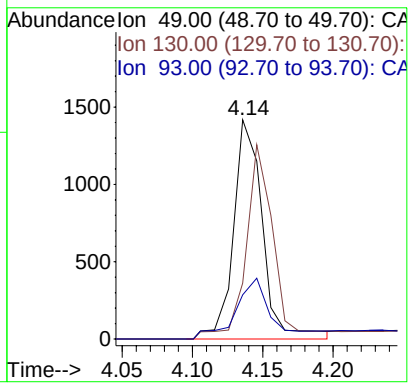


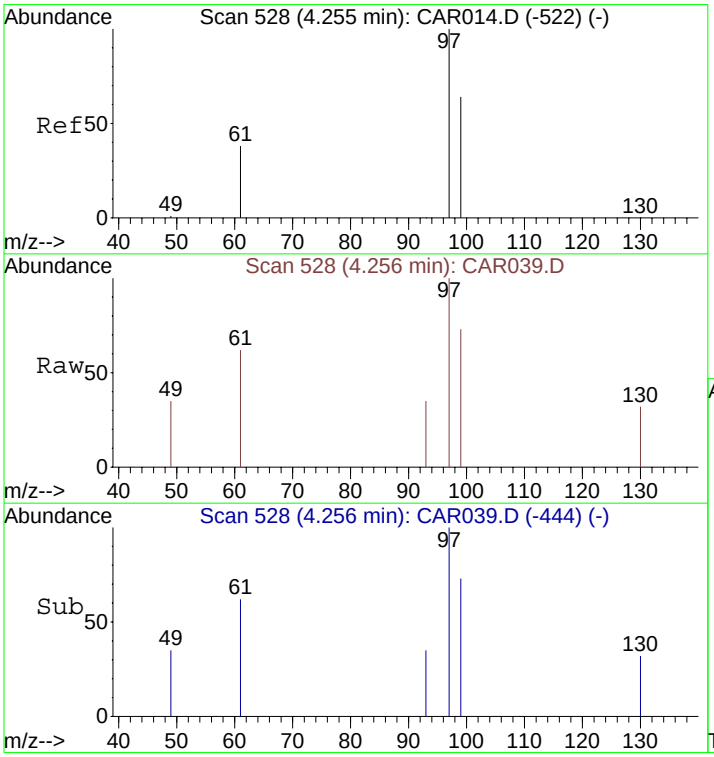


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR039.D
Acq: 16 Sep 2008 14:17

Tgt Ion: 49 Resp: 1866

Ion	Ratio	Lower	Upper
49	100		
130	80.9	65.1	97.7
93	33.7	33.8	50.6#

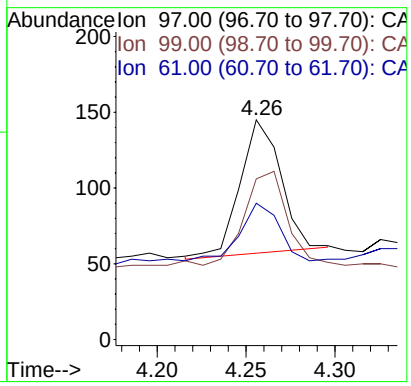


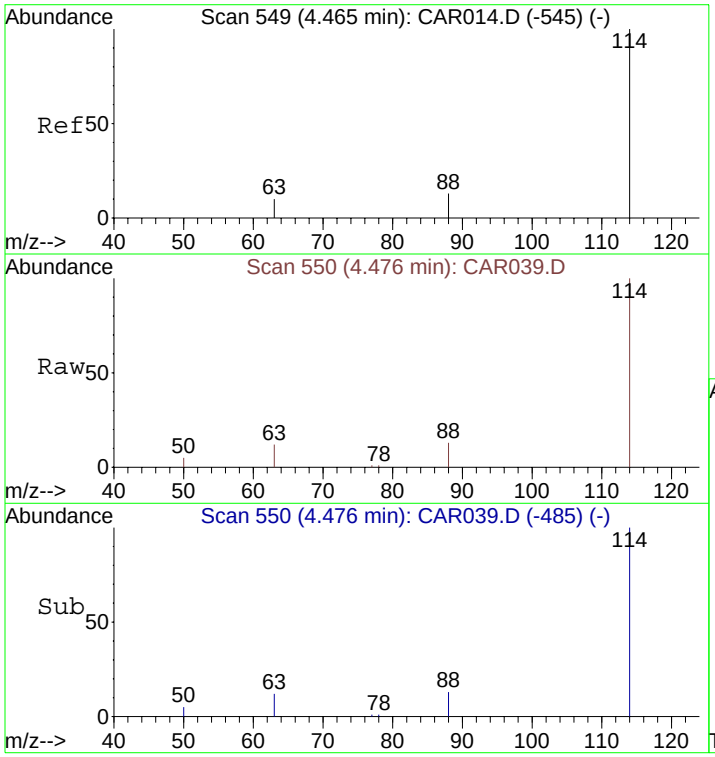


#8
1,1,1-Trichloroethane
Concen: 0.61 ppbv m
RT: 4.26 min Scan# 528
Delta R.T. 0.00 min
Lab File: CAR039.D
Acq: 16 Sep 2008 14:17

Tgt Ion: 97 Resp: 142

Ion	Ratio	Lower	Upper
97	100		
99	68.3	51.8	77.8
61	35.9	32.1	48.1

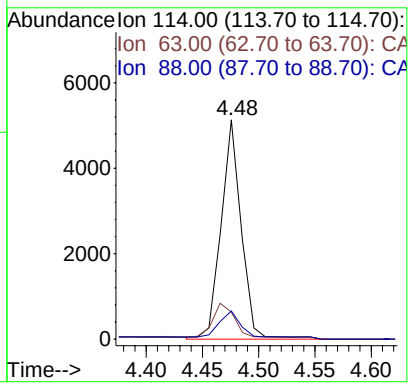


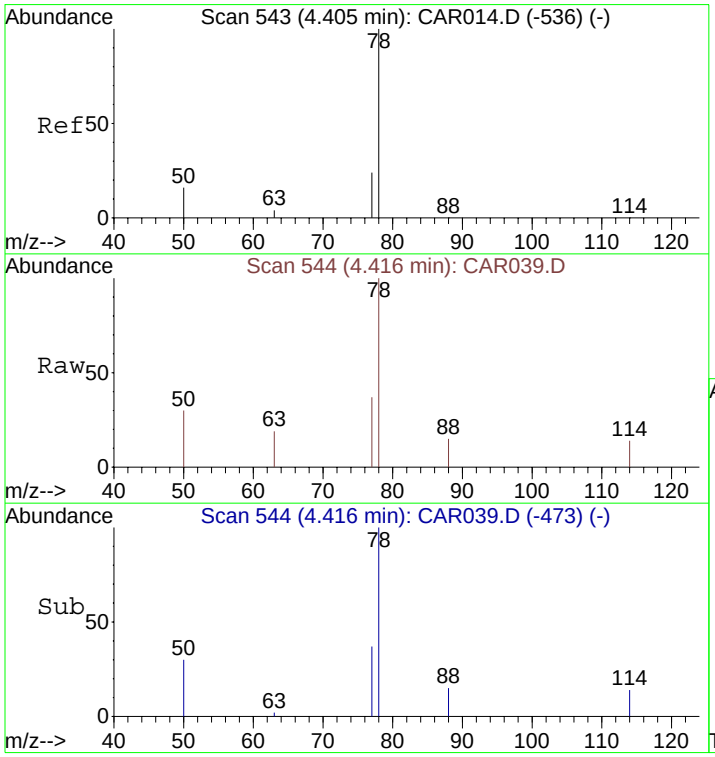


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR039.D
Acq: 16 Sep 2008 14:17

Tgt Ion:114 Resp: 6187

Ion	Ratio	Lower	Upper
114	100		
63	17.4	15.8	23.8
88	17.1	12.2	18.2

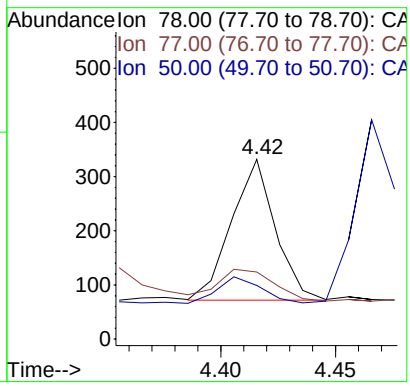


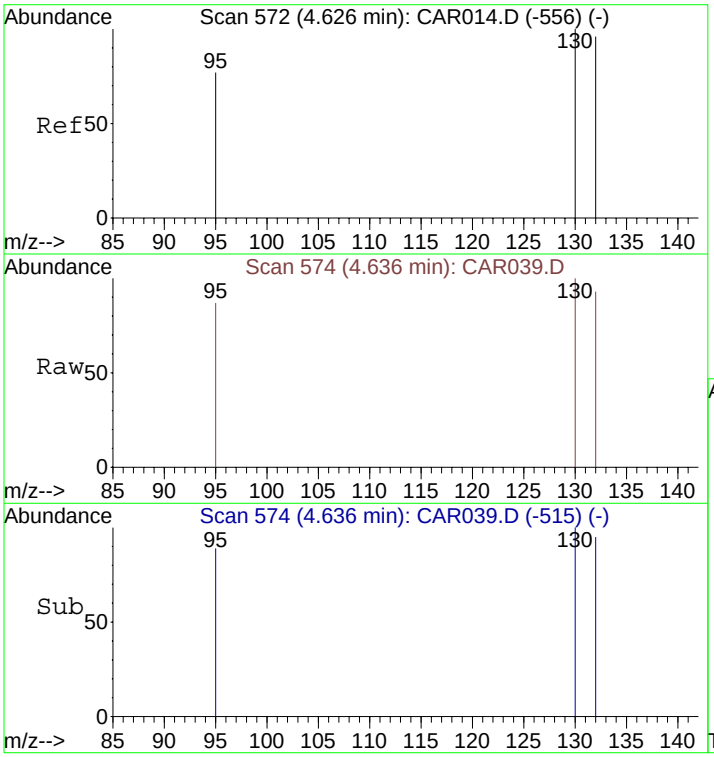


#10
Benzene
Concen: 0.92 ppbv m
RT: 4.42 min Scan# 544
Delta R.T. 0.01 min
Lab File: CAR039.D
Acq: 16 Sep 2008 14:17

Tgt Ion: 78 Resp: 346

Ion	Ratio	Lower	Upper
78	100		
77	22.0	18.6	28.0
50	20.5	16.2	24.4

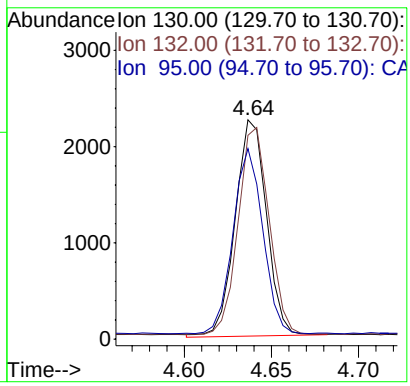


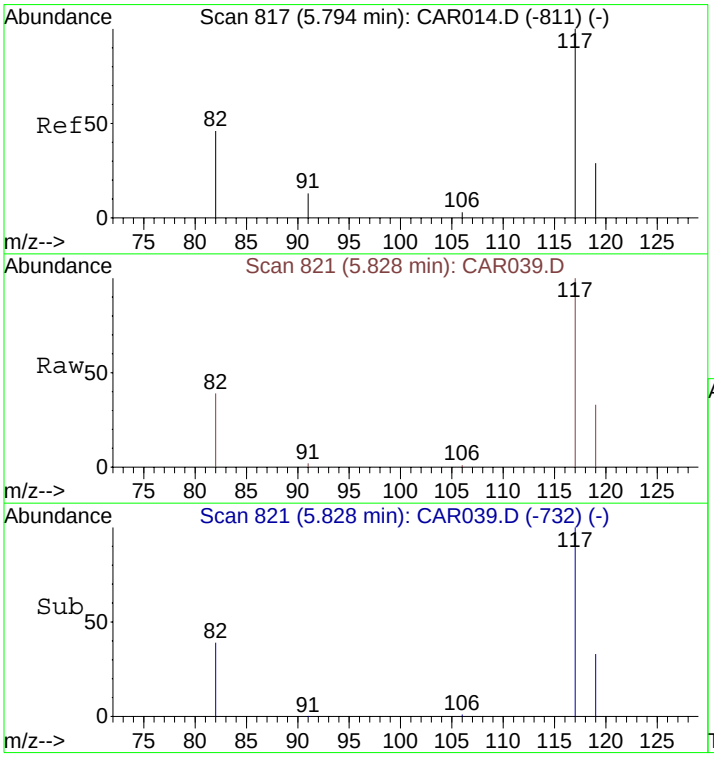


#11
Trichloroethene
Concen: 15.40 ppbv
RT: 4.64 min Scan# 574
Delta R.T. 0.01 min
Lab File: CAR039.D
Acq: 16 Sep 2008 14:17

Tgt Ion:130 Resp: 2822

Ion	Ratio	Lower	Upper
130	100		
132	94.4	73.8	110.6
95	80.8	72.5	108.7

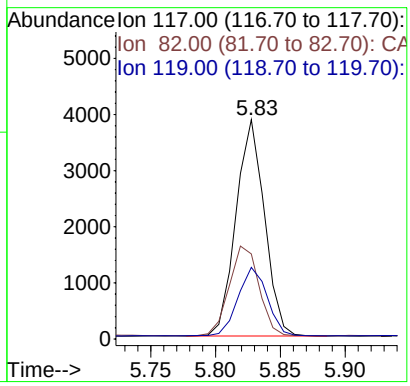


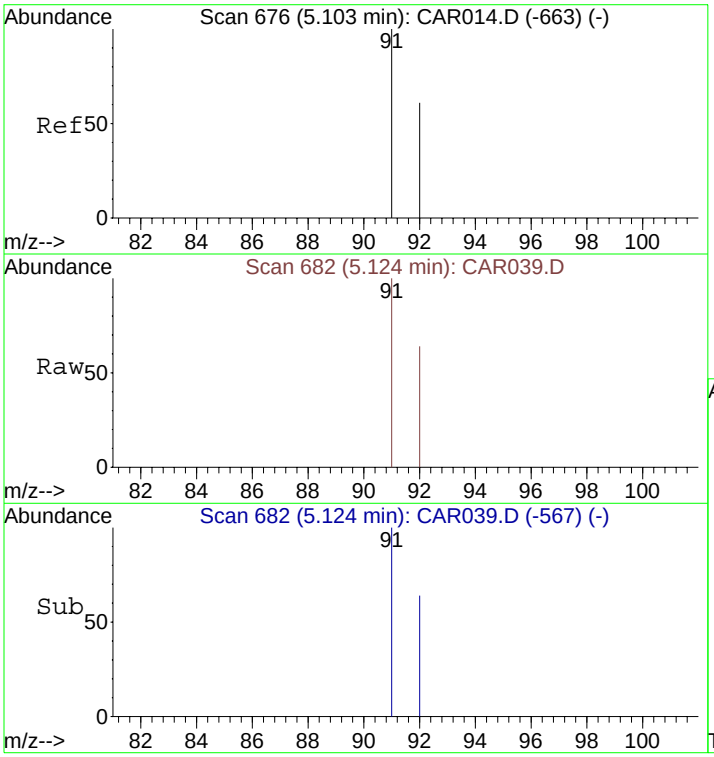


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.83 min Scan# 821
Delta R.T. 0.03 min
Lab File: CAR039.D
Acq: 16 Sep 2008 14:17

Tgt Ion:117 Resp: 5917

Ion	Ratio	Lower	Upper
117	100		
82	43.5	38.3	57.5
119	32.3	26.0	39.0

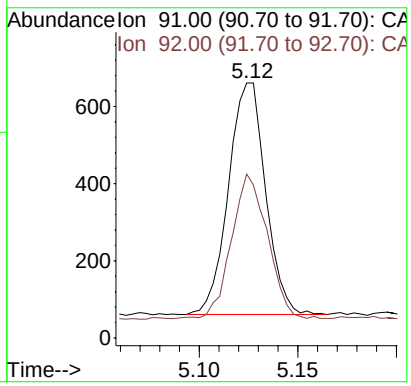


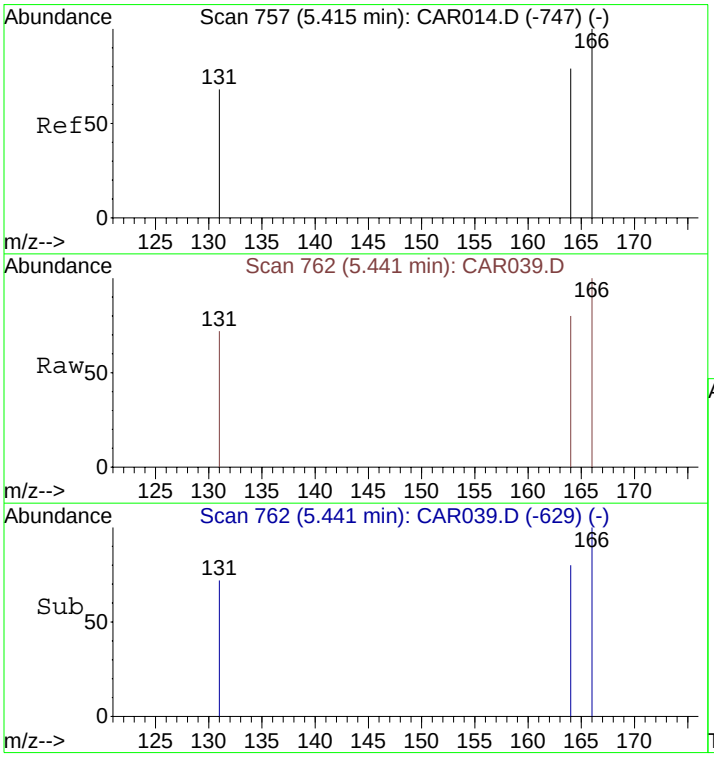


#13
Toluene
Concen: 2.19 ppbv
RT: 5.12 min Scan# 682
Delta R.T. 0.02 min
Lab File: CAR039.D
Acq: 16 Sep 2008 14:17

Tgt Ion: 91 Resp: 788

Ion	Ratio	Lower	Upper
91	100		
92	59.9	48.2	72.2

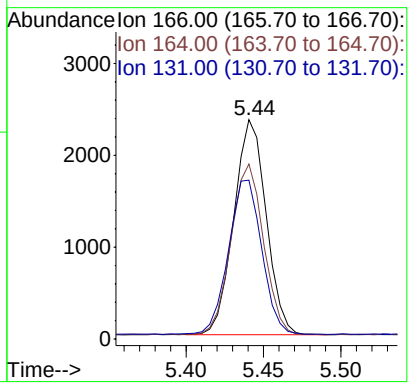




#14
Tetrachloroethene
Concen: 15.79 ppbv
RT: 5.44 min Scan# 762
Delta R.T. 0.03 min
Lab File: CAR039.D
Acq: 16 Sep 2008 14:17

Tgt Ion:166 Resp: 3413

Ion	Ratio	Lower	Upper
166	100		
164	79.4	63.1	94.7
131	73.6	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR040.D Vial: 1
Acq On : 16 Sep 2008 14:38 Operator: dlm
Sample : 51368\C1-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 14:53:35 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 06:10:49 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1830	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	6267	10.00 ppbv	0.01
12) Chlorobenzene-d5	5.82	117	5983	10.00 ppbv	0.03

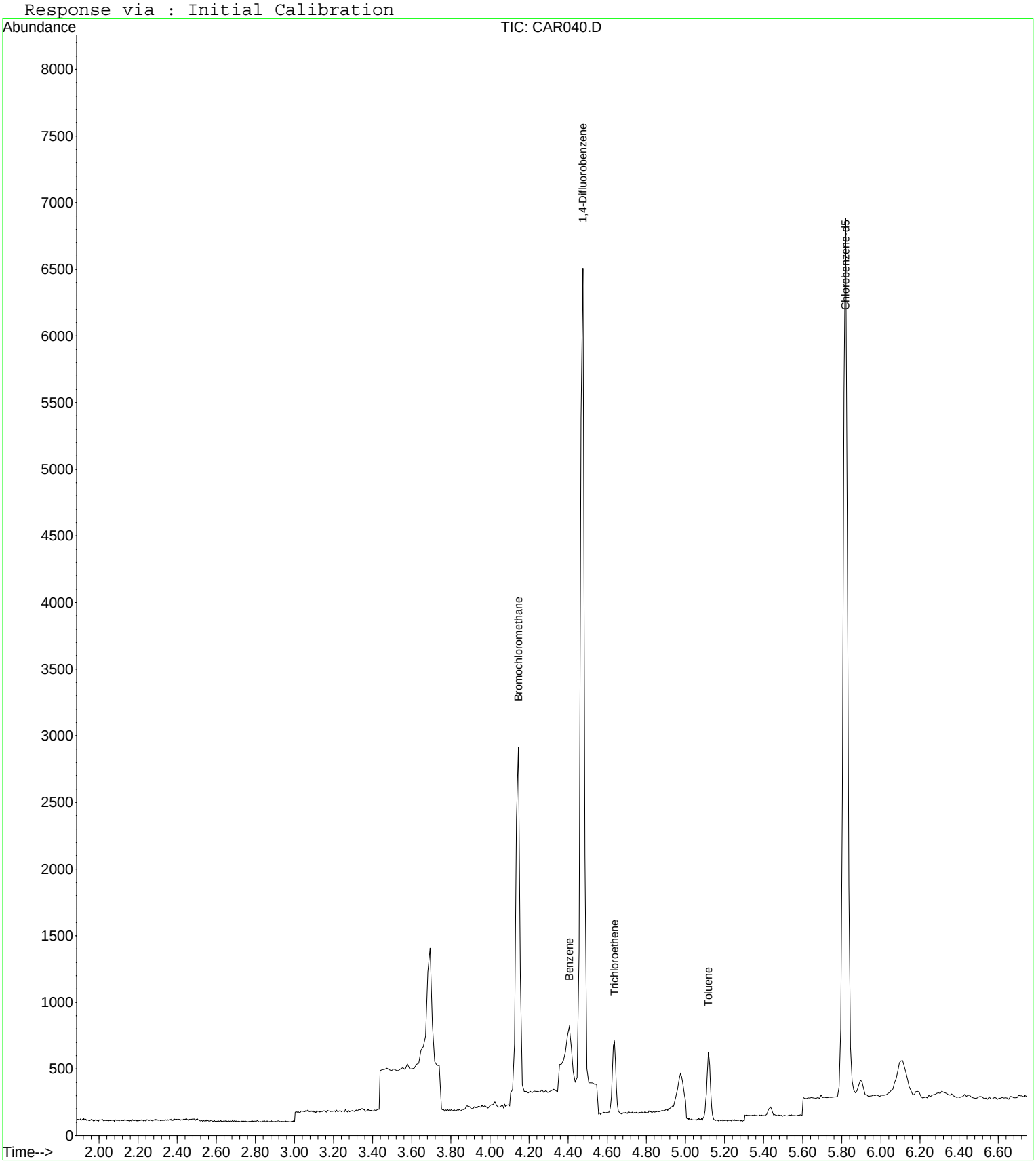
Target Compounds					Qvalue
10) Benzene	4.41	78	536m	1.41 ppbv	
11) Trichloroethene	4.64	130	244	1.31 ppbv #	82
13) Toluene	5.12	91	418	1.15 ppbv	99

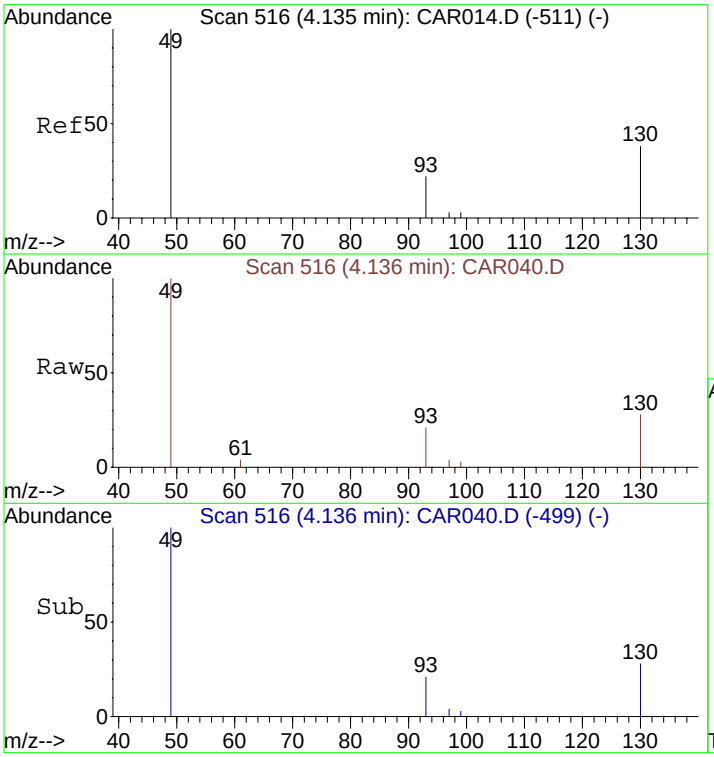
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR040.D Vial: 1
Acq On : 16 Sep 2008 14:38 Operator: dlm
Sample : 51368\C1-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 11:44 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 10:37:21 2008
Response via : Initial Calibration

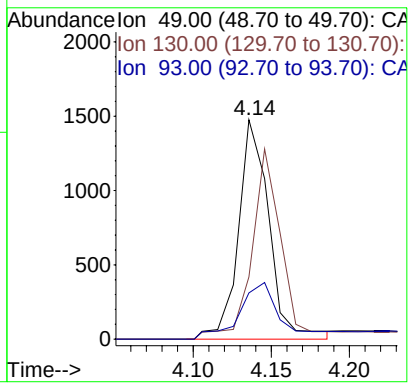


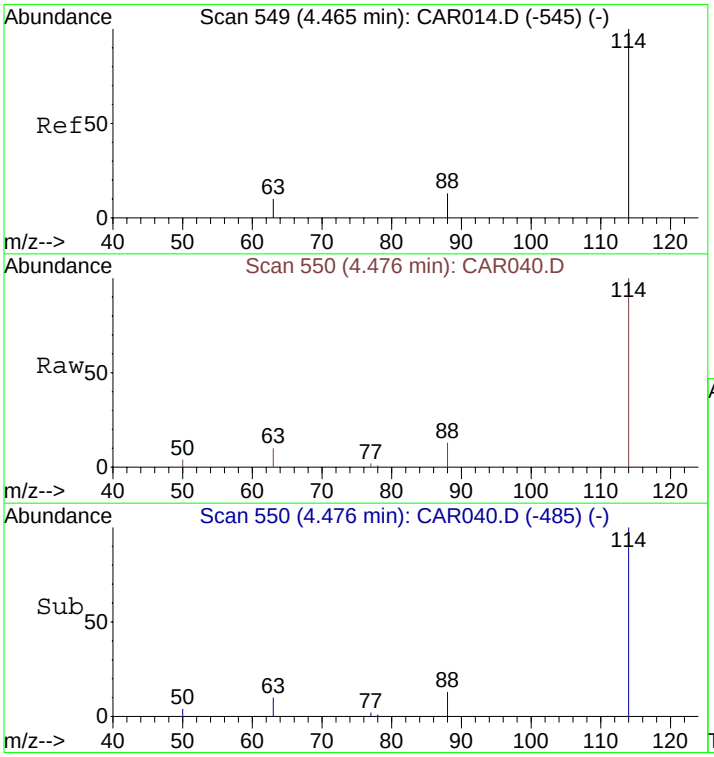


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR040.D
Acq: 16 Sep 2008 14:38

Tgt Ion: 49 Resp: 1830

Ion	Ratio	Lower	Upper
49	100		
130	84.5	65.1	97.7
93	34.6	33.8	50.6

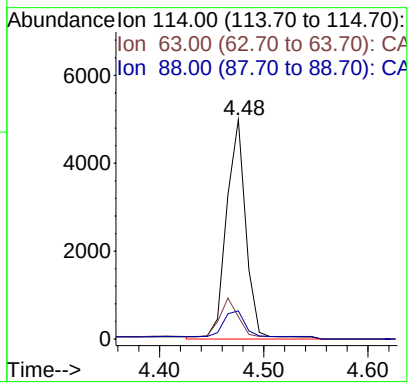


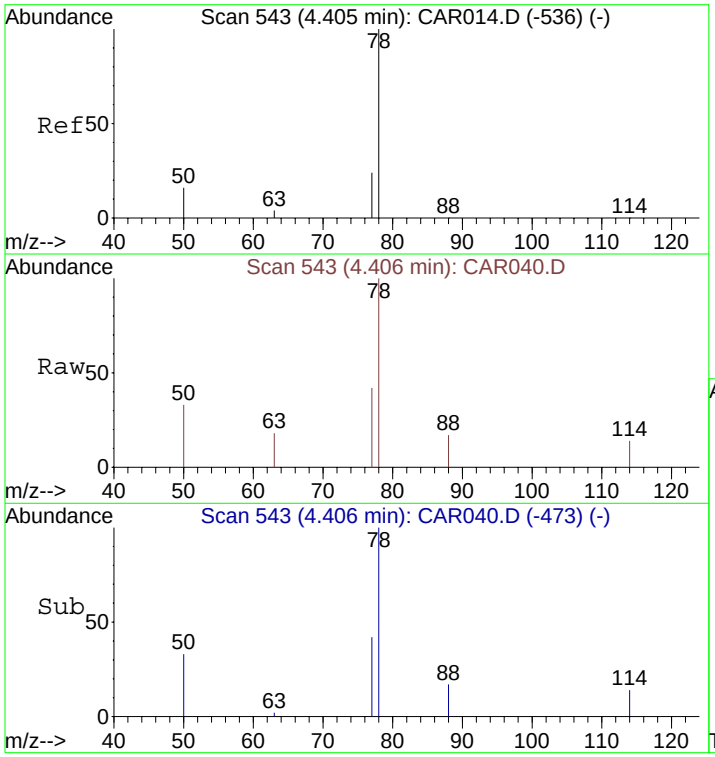


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR040.D
Acq: 16 Sep 2008 14:38

Tgt Ion:114 Resp: 6267

Ion	Ratio	Lower	Upper
114	100		
63	17.4	15.8	23.8
88	14.2	12.2	18.2

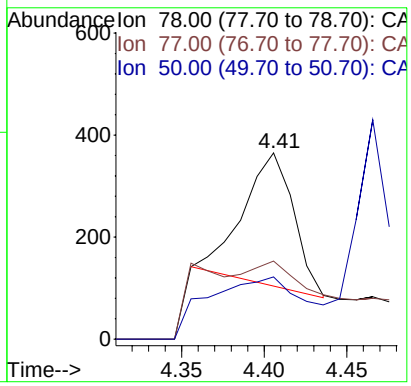


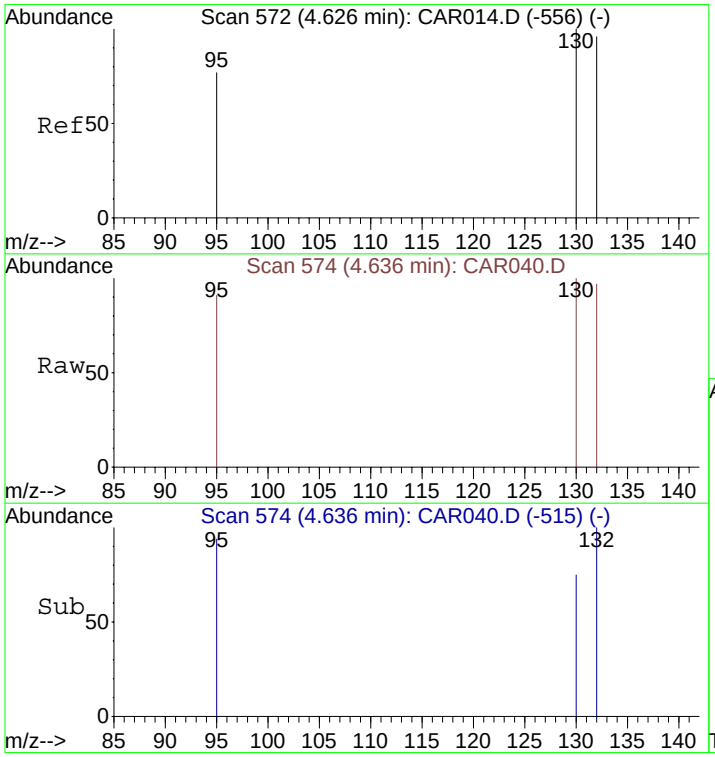


#10
Benzene
Concen: 1.41 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR040.D
Acq: 16 Sep 2008 14:38

Tgt Ion: 78 Resp: 536

Ion	Ratio	Lower	Upper
78	100		
77	11.9	18.6	28.0#
50	14.4	16.2	24.4#

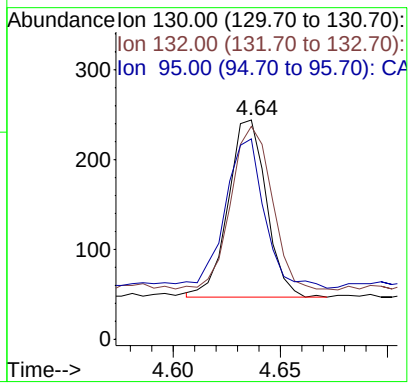


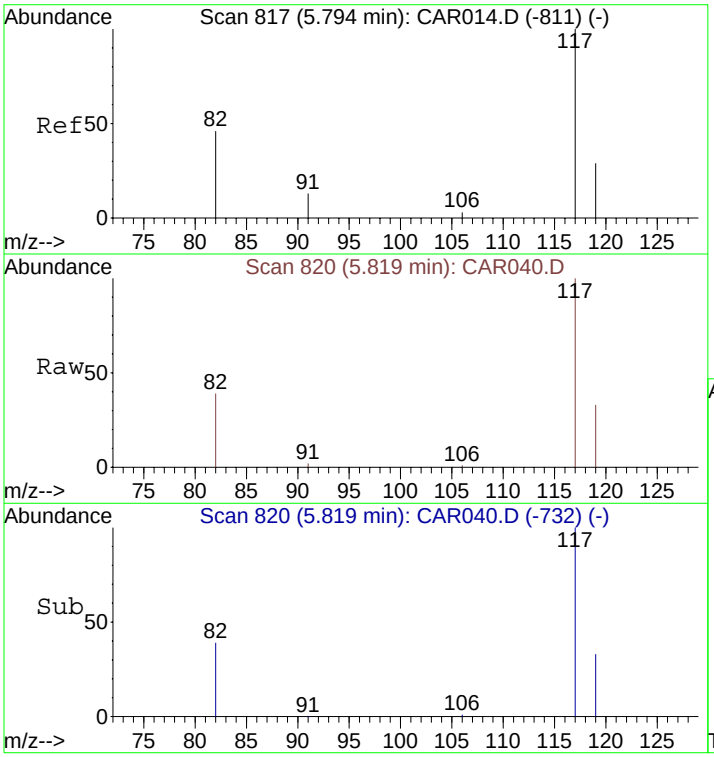


#11
Trichloroethene
Concen: 1.31 ppbv
RT: 4.64 min Scan# 574
Delta R.T. 0.01 min
Lab File: CAR040.D
Acq: 16 Sep 2008 14:38

Tgt Ion:130 Resp: 244

Ion	Ratio	Lower	Upper
130	100		
132	120.9	73.8	110.6#
95	86.1	72.5	108.7

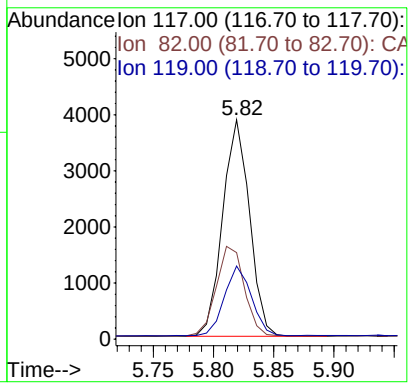


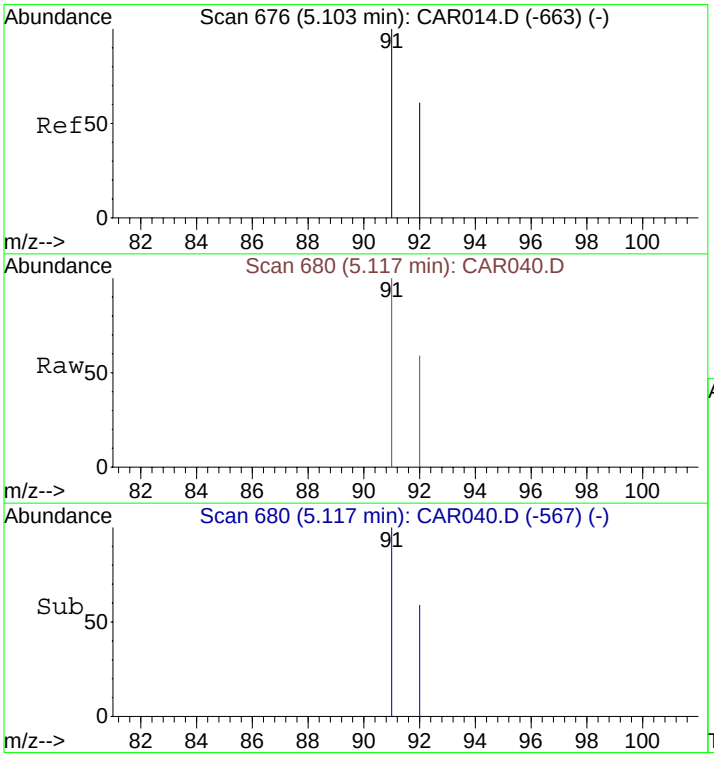


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.82 min Scan# 820
Delta R.T. 0.03 min
Lab File: CAR040.D
Acq: 16 Sep 2008 14:38

Tgt Ion:117 Resp: 5983

Ion	Ratio	Lower	Upper
117	100		
82	43.3	38.3	57.5
119	32.3	26.0	39.0

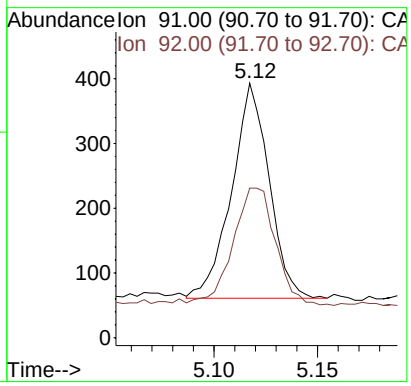




#13
Toluene
Concen: 1.15 ppbv
RT: 5.12 min Scan# 680
Delta R.T. 0.01 min
Lab File: CAR040.D
Acq: 16 Sep 2008 14:38

Tgt Ion: 91 Resp: 418

Ion	Ratio	Lower	Upper
91	100		
92	61.2	48.2	72.2



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR041.D Vial: 1
Acq On : 16 Sep 2008 14:49 Operator: dlm
Sample : 51369\C3-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 15:03:06 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 06:10:49 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.15	49	1834	10.00 ppbv	0.01
9) 1,4-Difluorobenzene	4.49	114	6108	10.00 ppbv	0.02
12) Chlorobenzene-d5	5.85	117	6016	10.00 ppbv	0.06

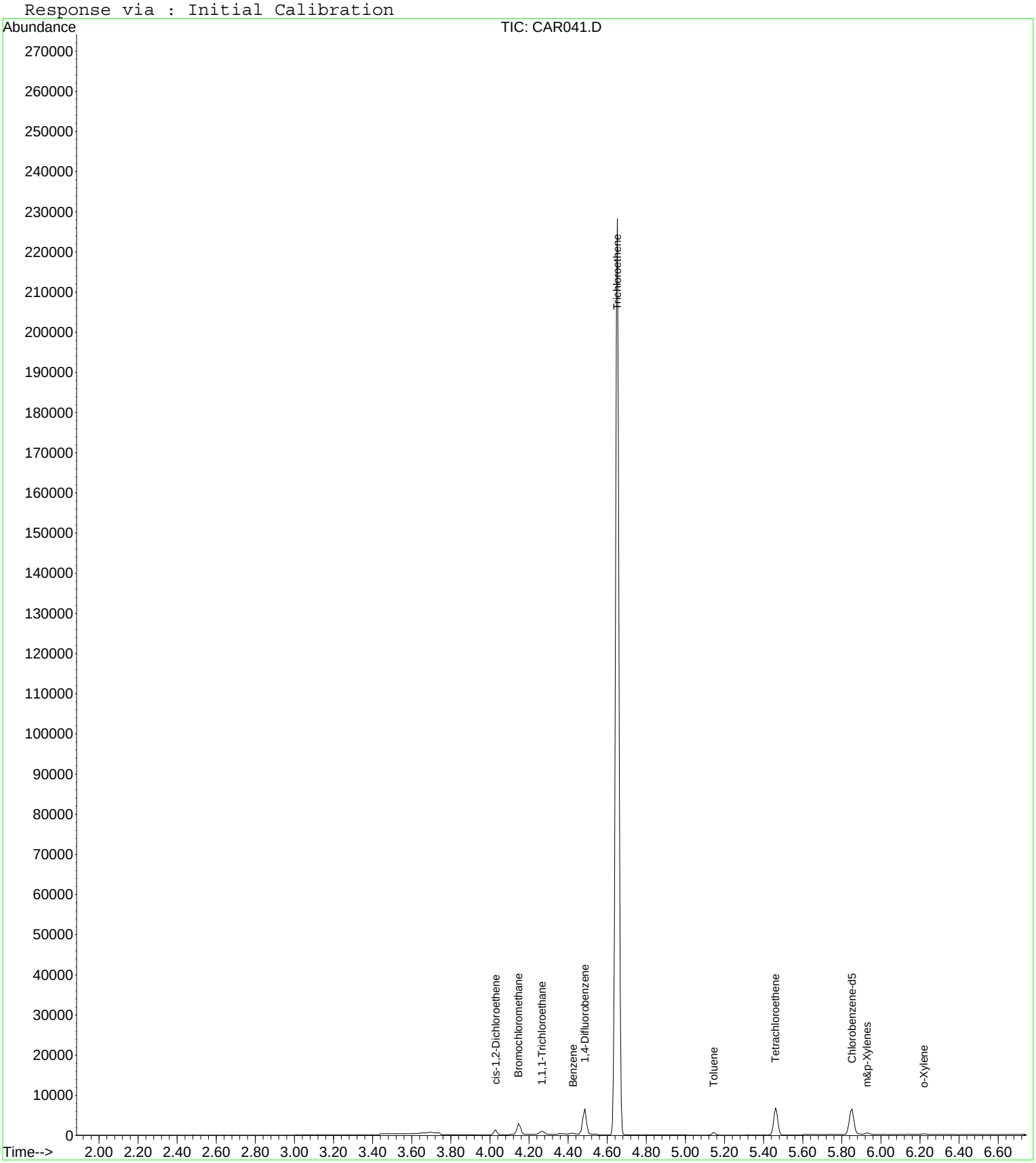
Target Compounds					Qvalue
7) cis-1,2-Dichloroethene	4.02	61	651m	4.23 ppbv	
8) 1,1,1-Trichloroethane	4.27	97	668m	2.92 ppbv	
10) Benzene	4.43	78	274m	0.74 ppbv	
11) Trichloroethene	4.65	130	101624	561.85 ppbv	94
13) Toluene	5.14	91	526	1.44 ppbv	99
14) Tetrachloroethene	5.47	166	3901	17.75 ppbv	96
16) m&p-Xylenes	5.93	91	427	1.43 ppbv	98
17) o-Xylene	6.22	91	217	0.64 ppbv	98

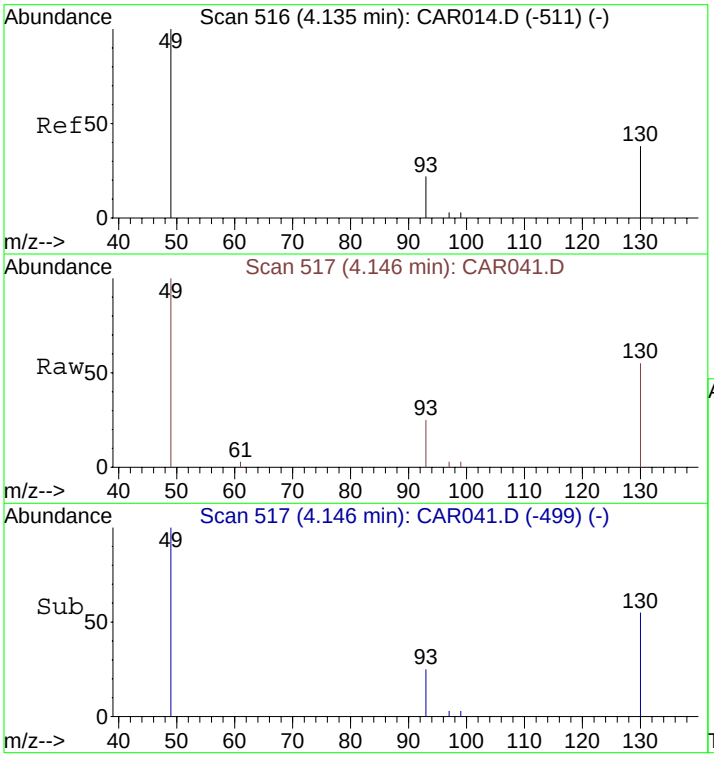
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR041.D Vial: 1
Acq On : 16 Sep 2008 14:49 Operator: dlm
Sample : 51369\C3-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 13:05 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 10:37:21 2008
Response via : Initial Calibration

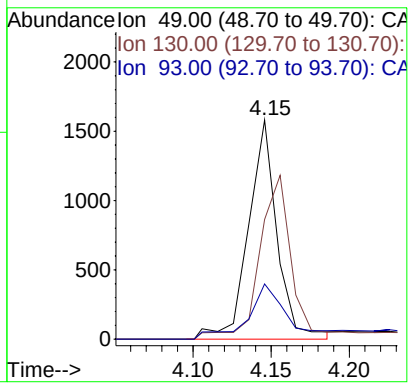


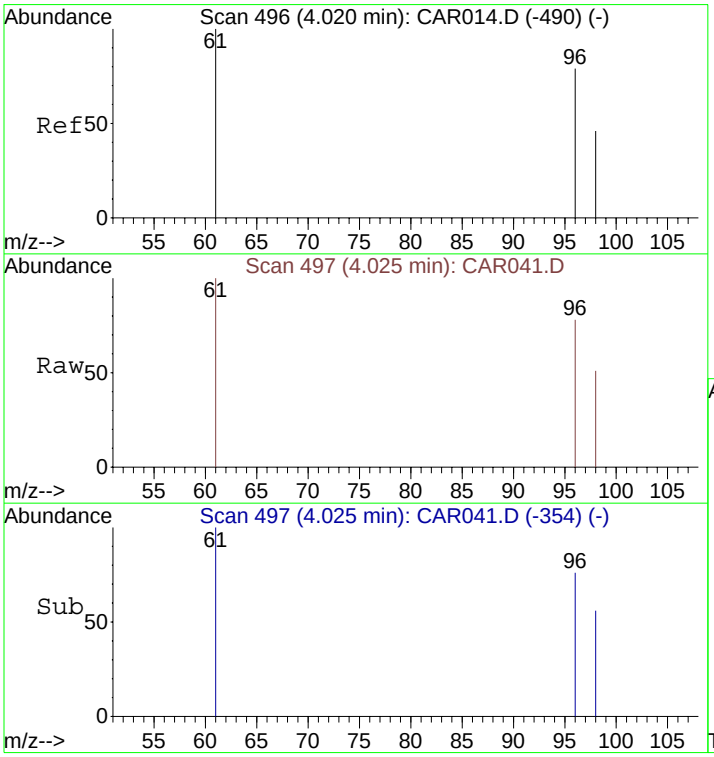


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.15 min Scan# 517
Delta R.T. 0.01 min
Lab File: CAR041.D
Acq: 16 Sep 2008 14:49

Tgt Ion: 49 Resp: 1834

Ion	Ratio	Lower	Upper
49	100		
130	81.6	65.1	97.7
93	34.1	33.8	50.6

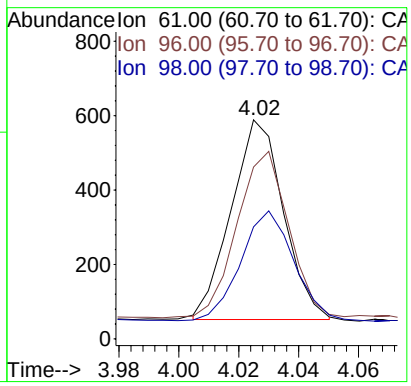


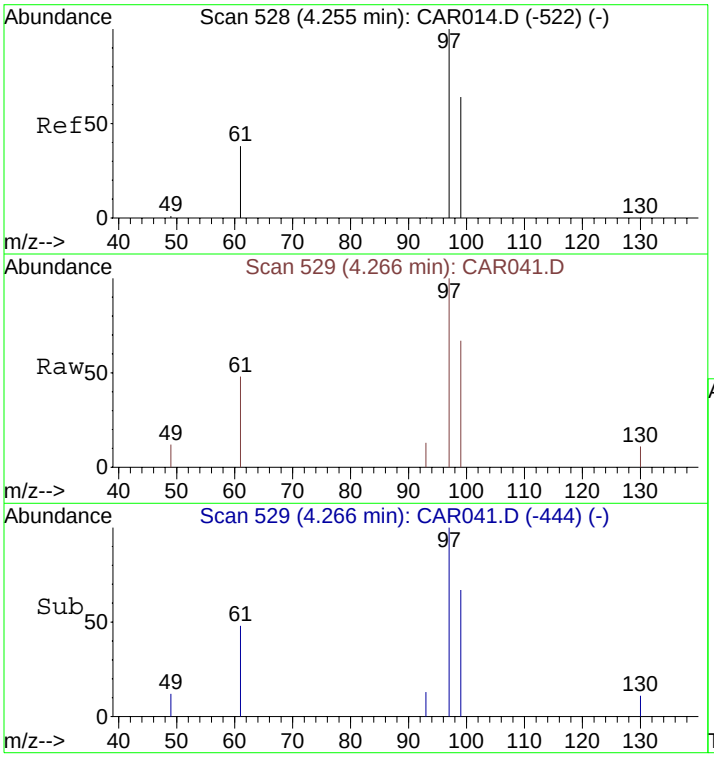


#7
cis-1,2-Dichloroethene
Concen: 4.23 ppbv m
RT: 4.02 min Scan# 497
Delta R.T. 0.40 min
Lab File: CAR041.D
Acq: 16 Sep 2008 14:49

Tgt Ion: 61 Resp: 651

Ion	Ratio	Lower	Upper
61	100		
96	78.8	56.0	84.0
98	50.5	36.2	54.4

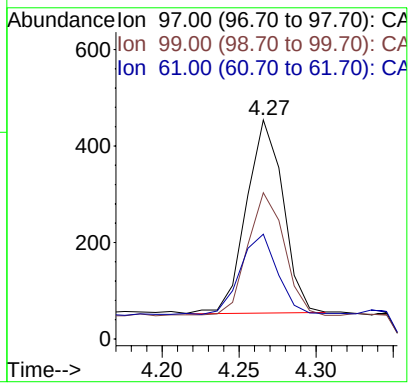


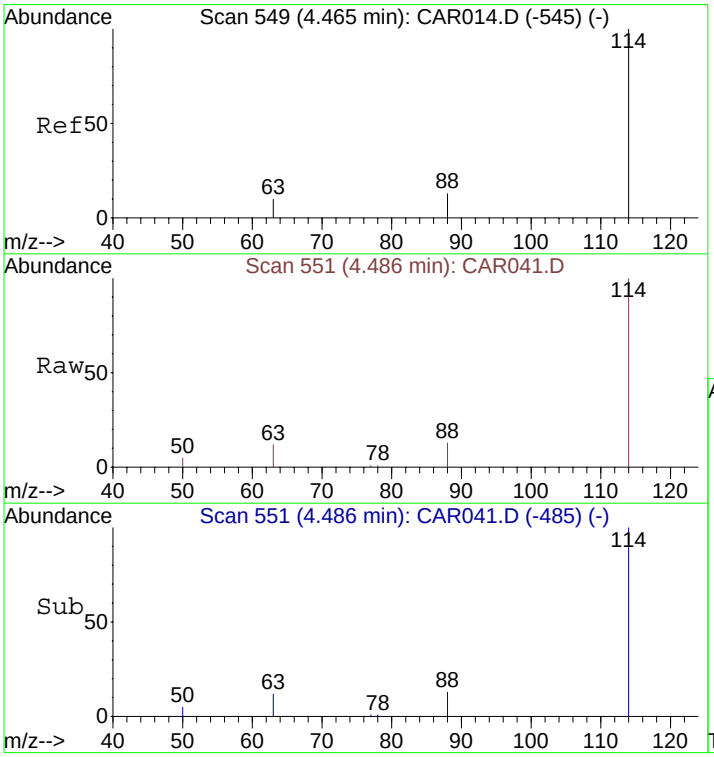


#8
1,1,1-Trichloroethane
Concen: 2.92 ppbv m
RT: 4.27 min Scan# 529
Delta R.T. 0.01 min
Lab File: CAR041.D
Acq: 16 Sep 2008 14:49

Tgt Ion: 97 Resp: 668

Ion	Ratio	Lower	Upper
97	100		
99	62.7	51.8	77.8
61	41.6	32.1	48.1

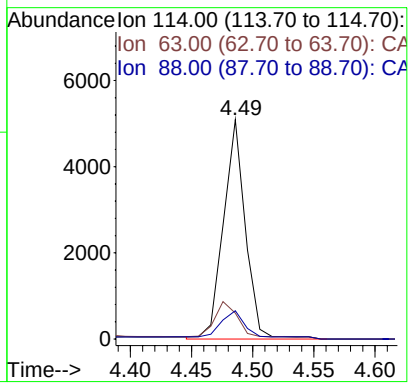


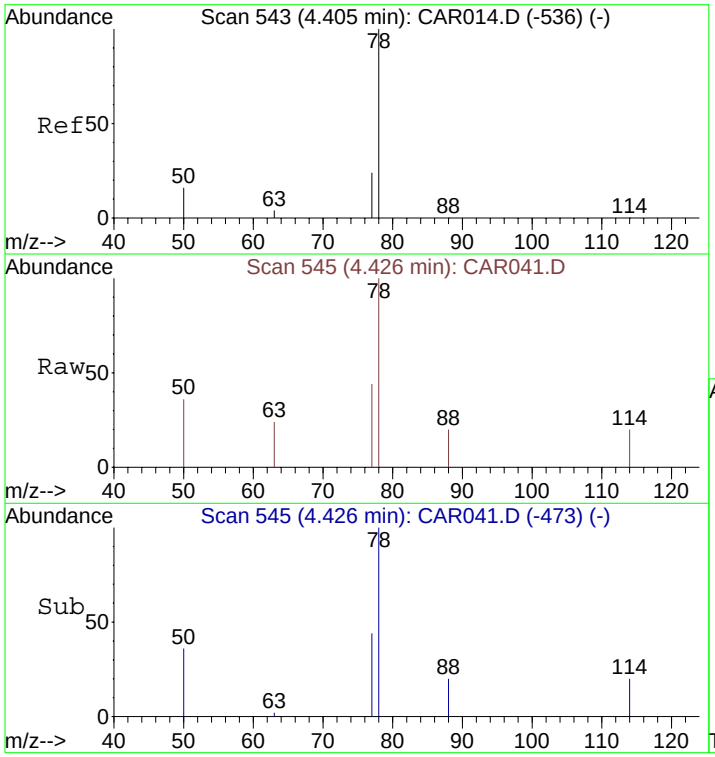


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.49 min Scan# 551
Delta R.T. 0.02 min
Lab File: CAR041.D
Acq: 16 Sep 2008 14:49

Tgt Ion:114 Resp: 6108

Ion	Ratio	Lower	Upper
114	100		
63	17.7	15.8	23.8
88	17.2	12.2	18.2

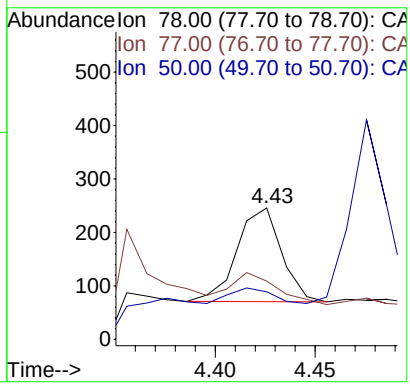


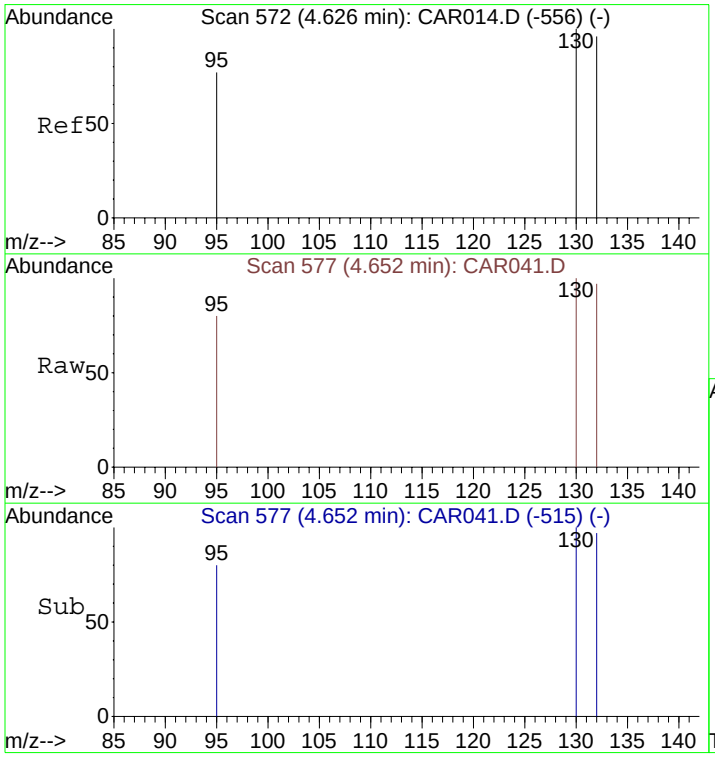


#10
Benzene
Concen: 0.74 ppbv m
RT: 4.43 min Scan# 545
Delta R.T. 0.02 min
Lab File: CAR041.D
Acq: 16 Sep 2008 14:49

Tgt Ion: 78 Resp: 274

Ion	Ratio	Lower	Upper
78	100		
77	26.3	18.6	28.0
50	15.7	16.2	24.4#

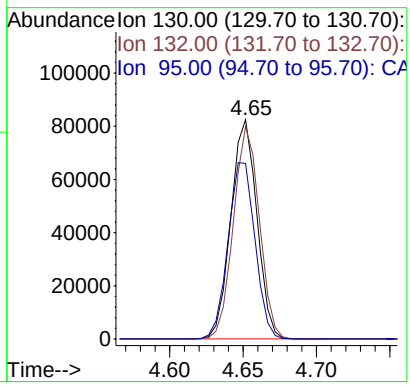


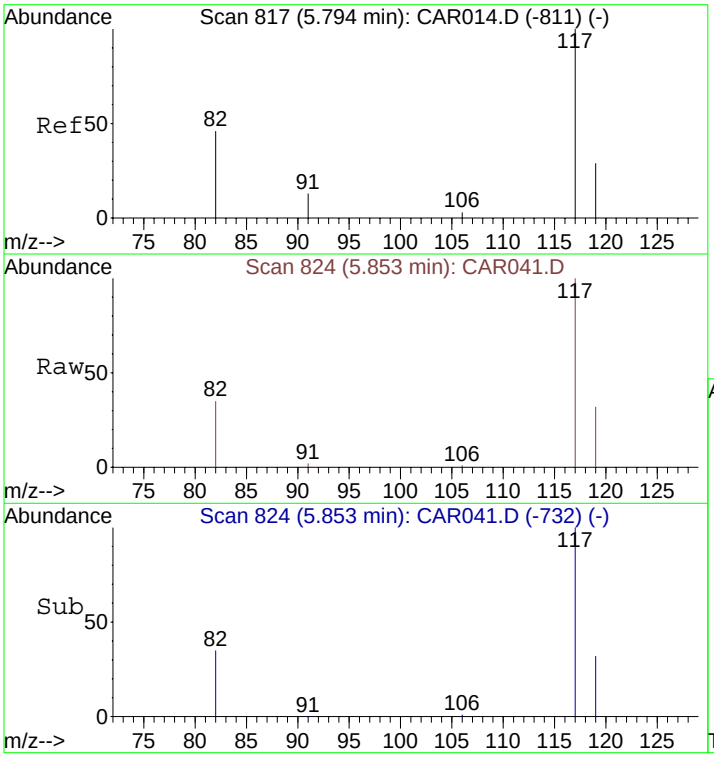


#11
Trichloroethene
Concen: 561.85 ppbv
RT: 4.65 min Scan# 577
Delta R.T. 0.03 min
Lab File: CAR041.D
Acq: 16 Sep 2008 14:49

Tgt Ion:130 Resp: 101624

Ion	Ratio	Lower	Upper
130	100		
132	96.4	73.8	110.6
95	83.4	72.5	108.7

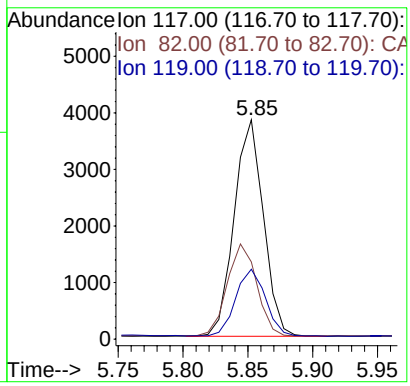


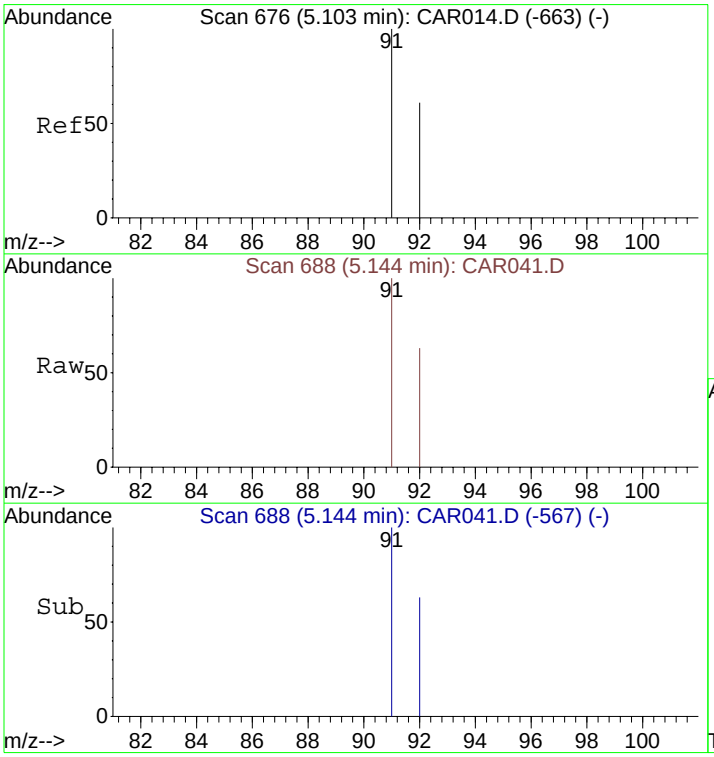


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.85 min Scan# 824
Delta R.T. 0.06 min
Lab File: CAR041.D
Acq: 16 Sep 2008 14:49

Tgt Ion:117 Resp: 6016

Ion	Ratio	Lower	Upper
117	100		
82	42.8	38.3	57.5
119	31.8	26.0	39.0

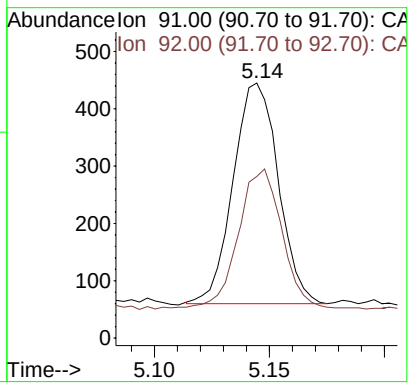


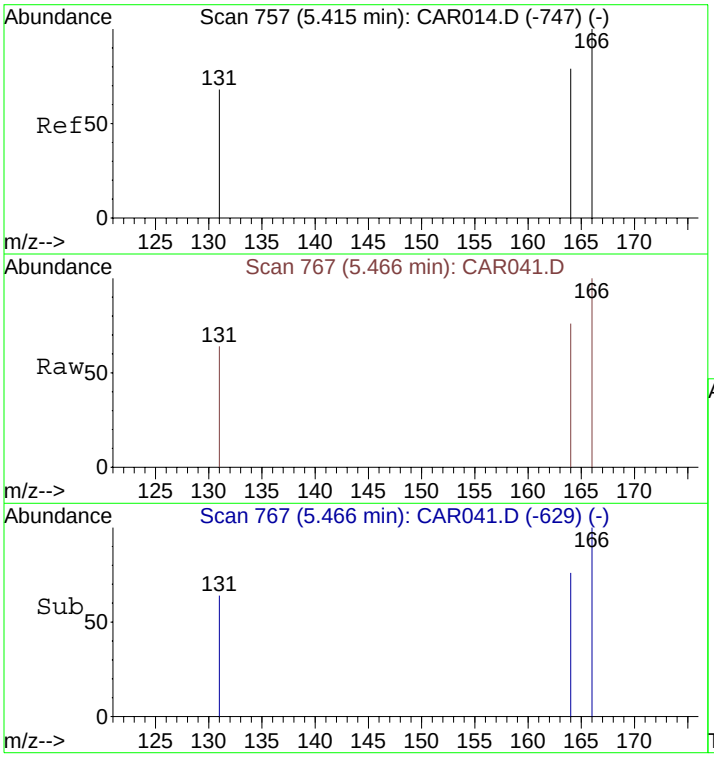


#13
Toluene
Concen: 1.44 ppbv
RT: 5.14 min Scan# 688
Delta R.T. 0.04 min
Lab File: CAR041.D
Acq: 16 Sep 2008 14:49

Tgt Ion: 91 Resp: 526

Ion	Ratio	Lower	Upper
91	100		
92	60.8	48.2	72.2

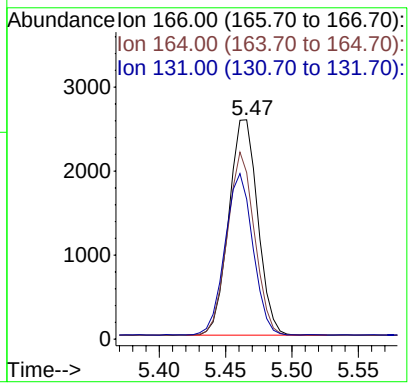


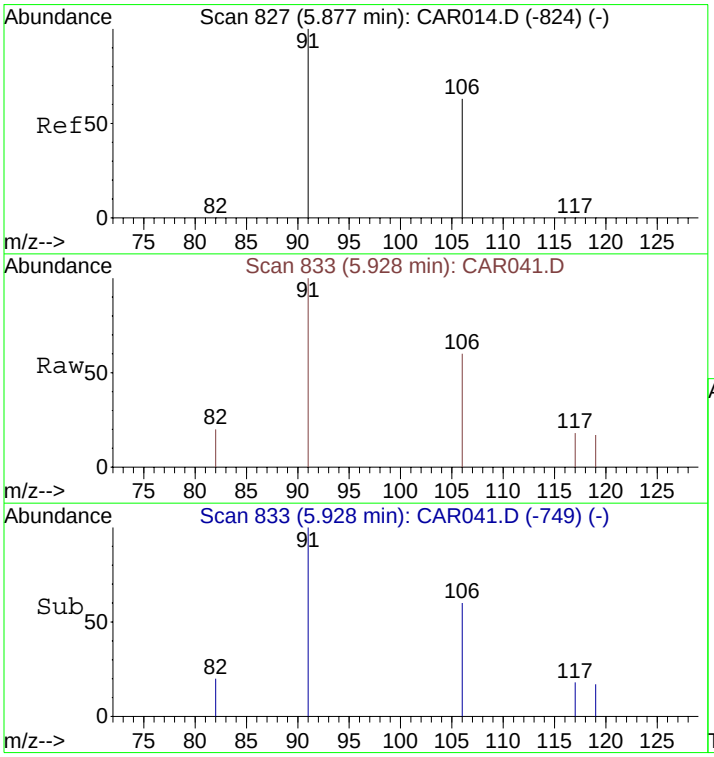


#14
Tetrachloroethene
Concen: 17.75 ppbv
RT: 5.47 min Scan# 767
Delta R.T. 0.05 min
Lab File: CAR041.D
Acq: 16 Sep 2008 14:49

Tgt Ion:166 Resp: 3901

Ion	Ratio	Lower	Upper
166	100		
164	79.5	63.1	94.7
131	72.0	62.9	94.3

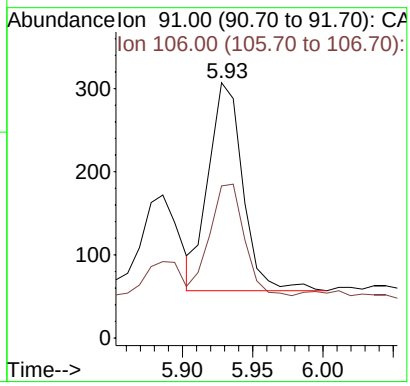


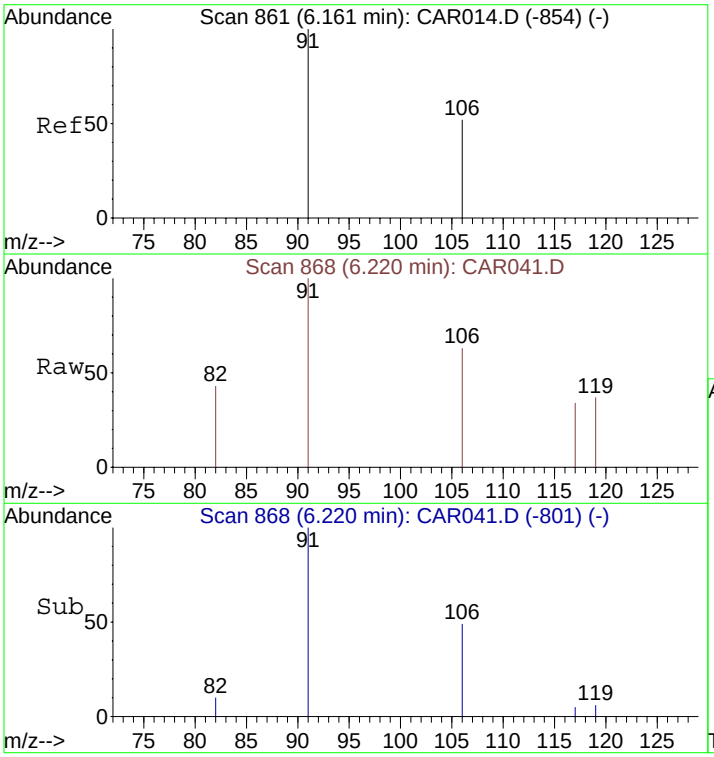


#16
m&p-Xylenes
Concen: 1.43 ppbv
RT: 5.93 min Scan# 833
Delta R.T. 0.05 min
Lab File: CAR041.D
Acq: 16 Sep 2008 14:49

Tgt Ion: 91 Resp: 427

Ion	Ratio	Lower	Upper
91	100		
106	53.9	41.8	62.8

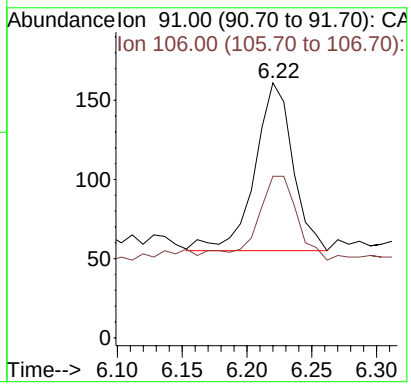




#17
o-Xylene
Concen: 0.64 ppbv
RT: 6.22 min Scan# 868
Delta R.T. 0.06 min
Lab File: CAR041.D
Acq: 16 Sep 2008 14:49

Tgt Ion: 91 Resp: 217

Ion	Ratio	Lower	Upper
91	100		
106	47.0	38.9	58.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR042.D Vial: 1
Acq On : 16 Sep 2008 15:00 Operator: dlm
Sample : 51367\A4-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 15:08:27 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 06:10:49 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1823	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	6107	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.82	117	5797	10.00 ppbv	0.03

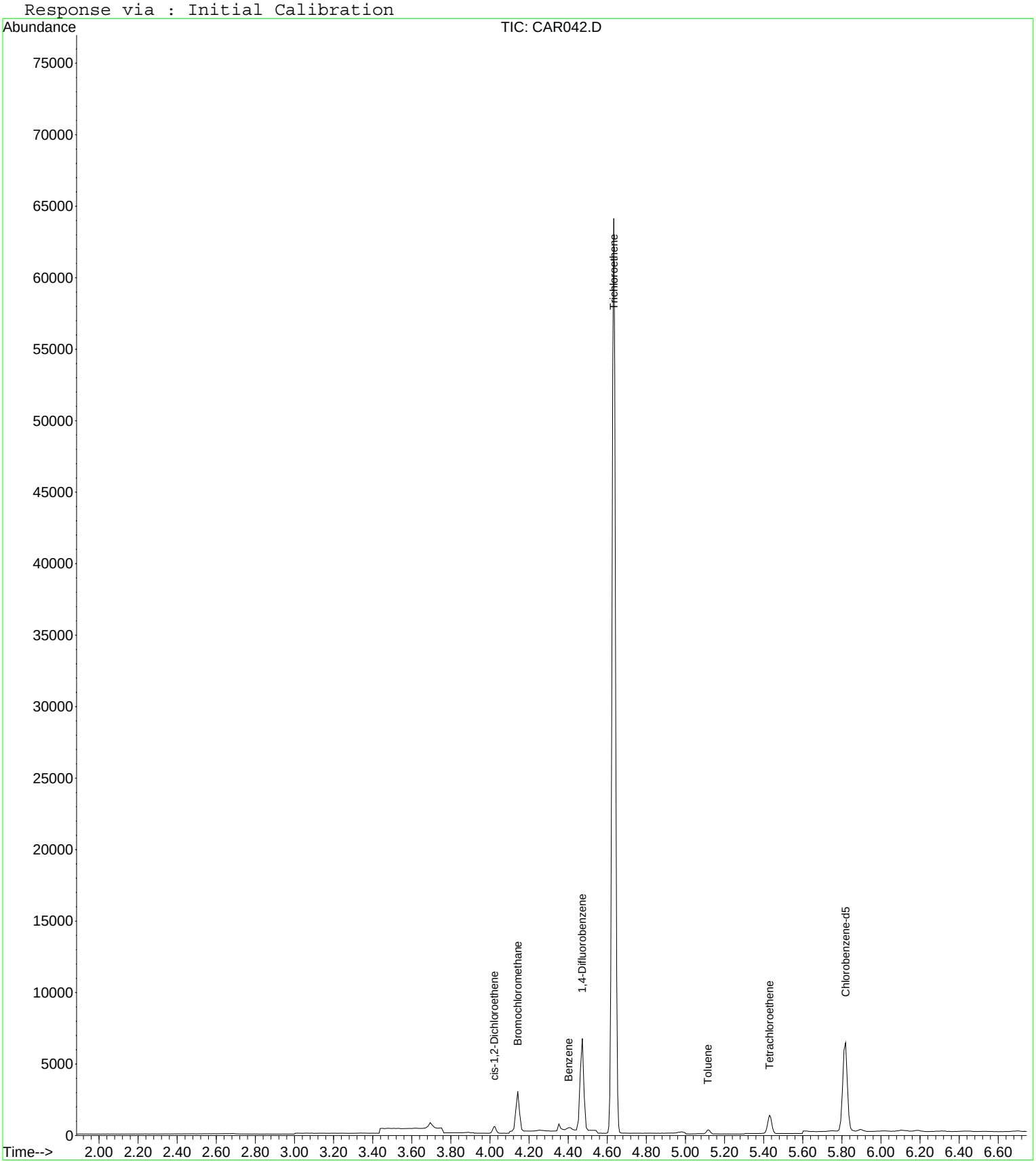
Target Compounds					Qvalue
7) cis-1,2-Dichloroethene	4.02	61	261	1.70 ppbv	89
10) Benzene	4.41	78	225m	0.61 ppbv	
11) Trichloroethene	4.63	130	27845	153.97 ppbv	94
13) Toluene	5.11	91	248	0.70 ppbv	97
14) Tetrachloroethene	5.43	166	732	3.46 ppbv	96

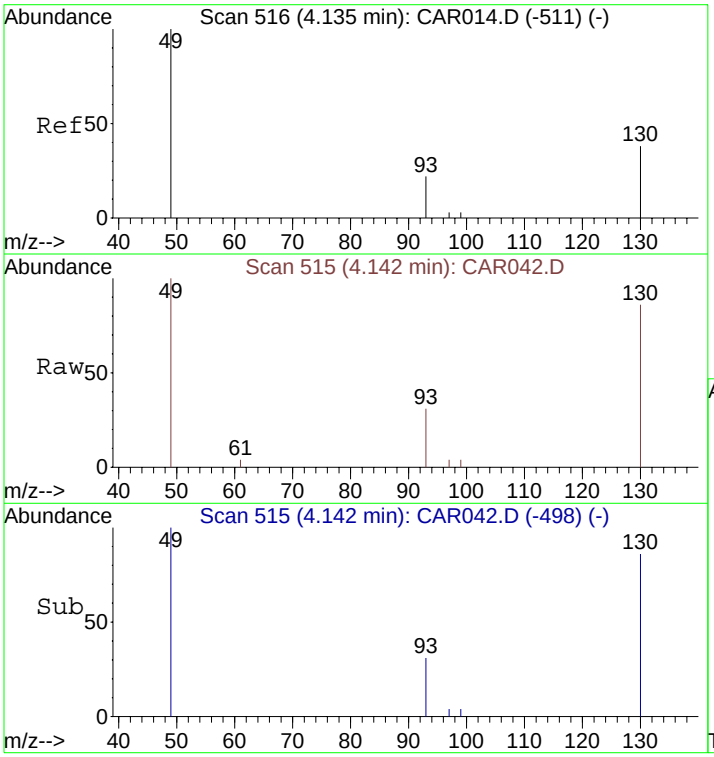
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR042.D Vial: 1
Acq On : 16 Sep 2008 15:00 Operator: dlm
Sample : 51367\A4-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:29 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Thu Oct 02 13:10:18 2008
Response via : Initial Calibration

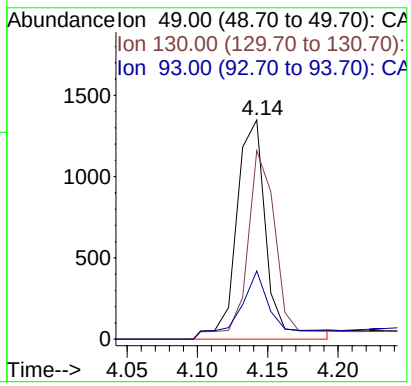


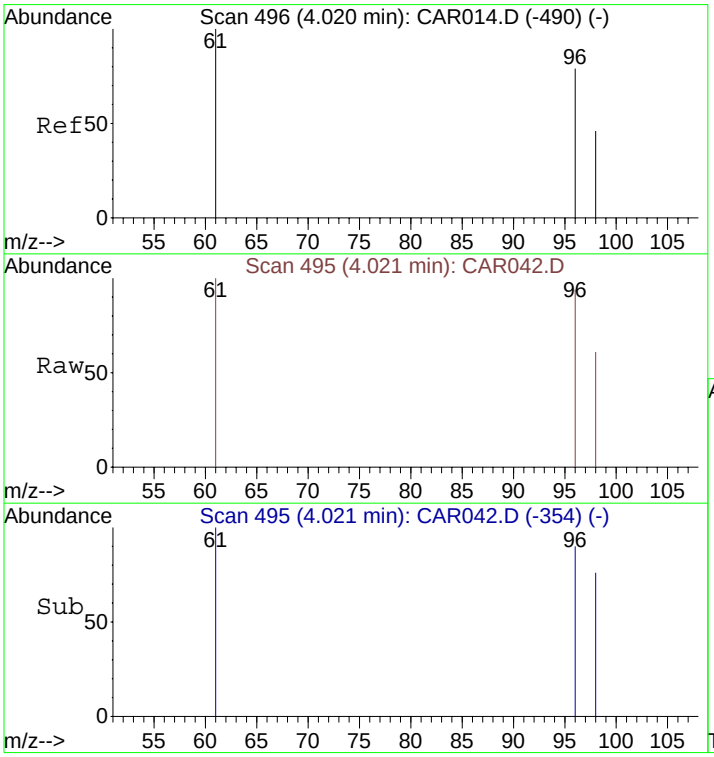


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 515
Delta R.T. 0.01 min
Lab File: CAR042.D
Acq: 16 Sep 2008 15:00

Tgt Ion: 49 Resp: 1823

Ion	Ratio	Lower	Upper
49	100		
130	81.2	65.1	97.7
93	34.1	33.8	50.6

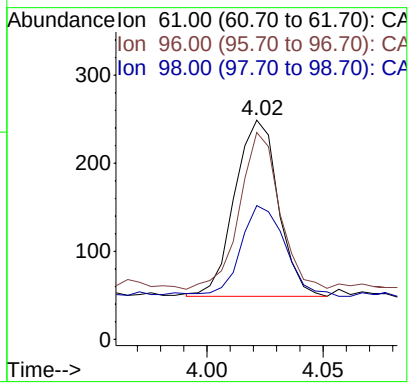


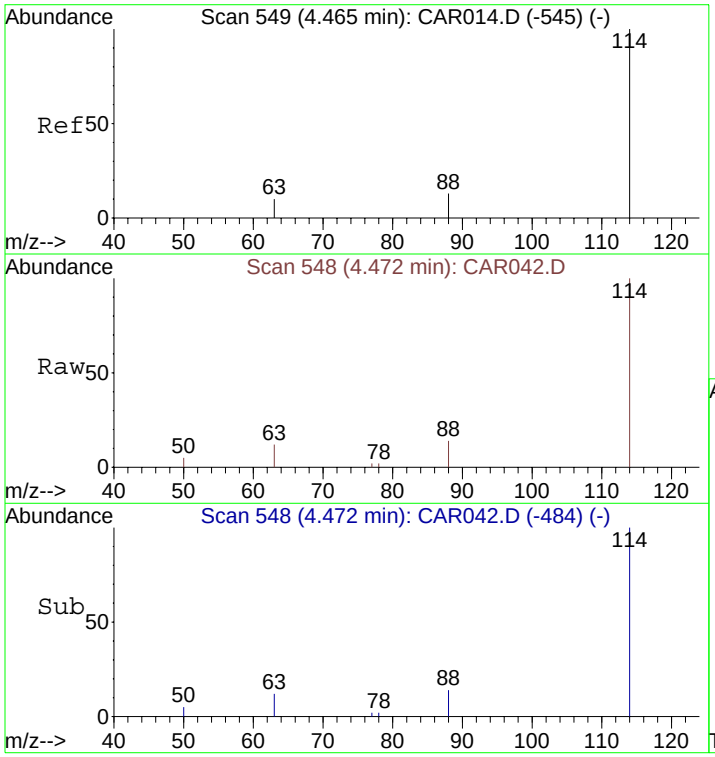


#7
cis-1,2-Dichloroethene
Concen: 1.70 ppbv
RT: 4.02 min Scan# 495
Delta R.T. 0.40 min
Lab File: CAR042.D
Acq: 16 Sep 2008 15:00

Tgt Ion: 61 Resp: 261

Ion	Ratio	Lower	Upper
61	100		
96	79.7	56.0	84.0
98	51.7	36.2	54.4

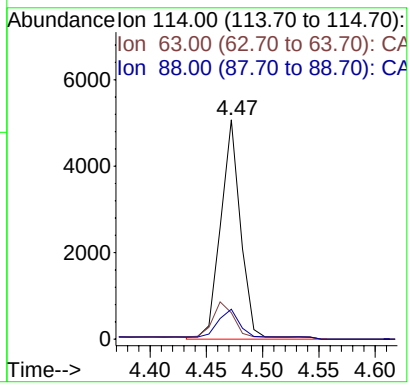


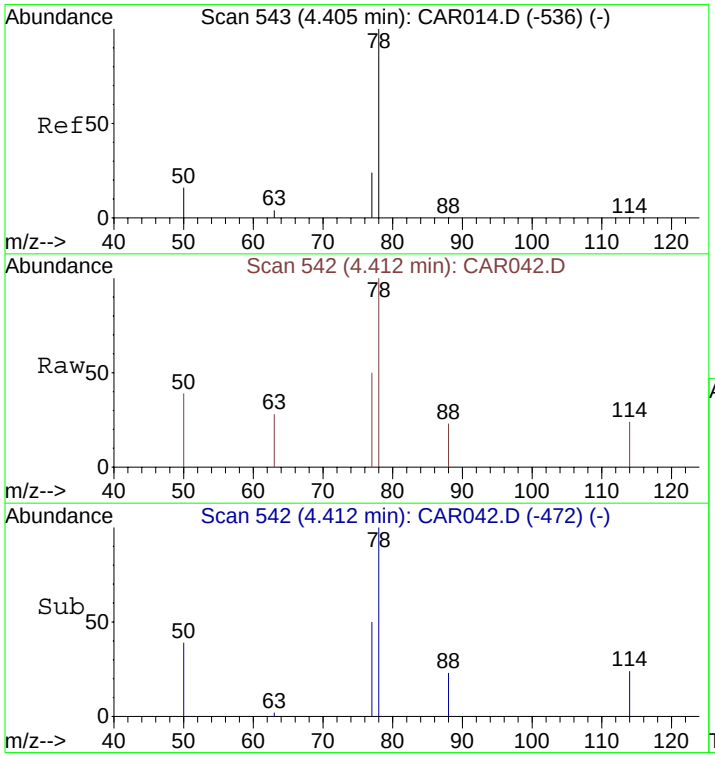


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 548
Delta R.T. 0.01 min
Lab File: CAR042.D
Acq: 16 Sep 2008 15:00

Tgt Ion:114 Resp: 6107

Ion	Ratio	Lower	Upper
114	100		
63	17.4	15.8	23.8
88	18.5	12.2	18.2#

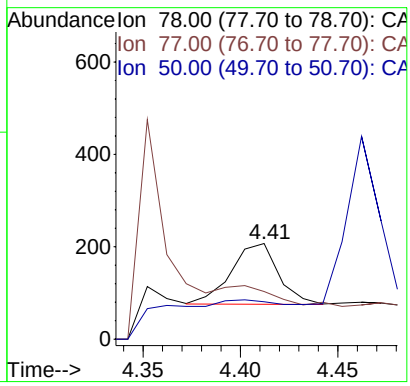


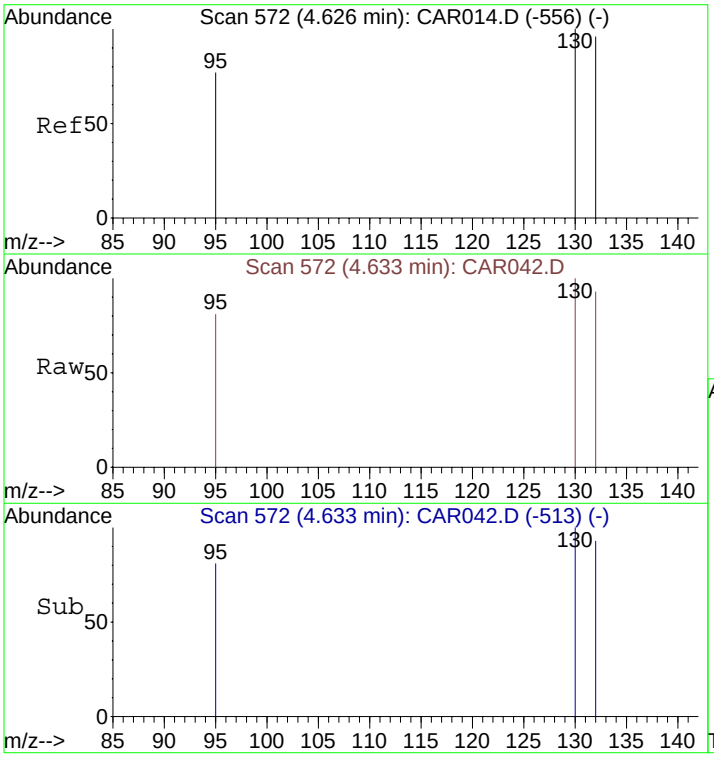


#10
Benzene
Concen: 0.61 ppbv m
RT: 4.41 min Scan# 542
Delta R.T. 0.01 min
Lab File: CAR042.D
Acq: 16 Sep 2008 15:00

Tgt Ion: 78 Resp: 225

Ion	Ratio	Lower	Upper
78	100		
77	19.1	18.6	28.0
50	14.2	16.2	24.4#

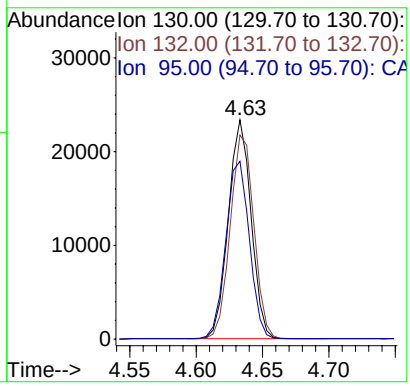


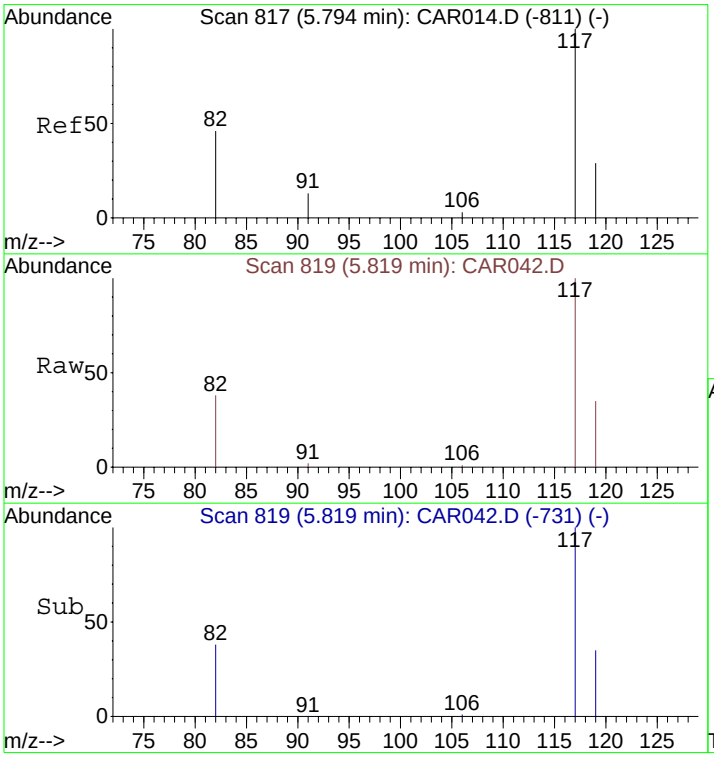


#11
Trichloroethene
Concen: 153.97 ppbv
RT: 4.63 min Scan# 572
Delta R.T. 0.01 min
Lab File: CAR042.D
Acq: 16 Sep 2008 15:00

Tgt Ion:130 Resp: 27845

Ion	Ratio	Lower	Upper
130	100		
132	96.3	73.8	110.6
95	83.5	72.5	108.7

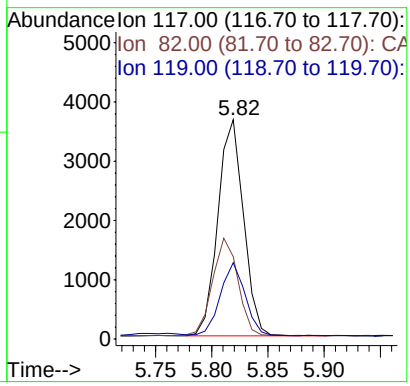


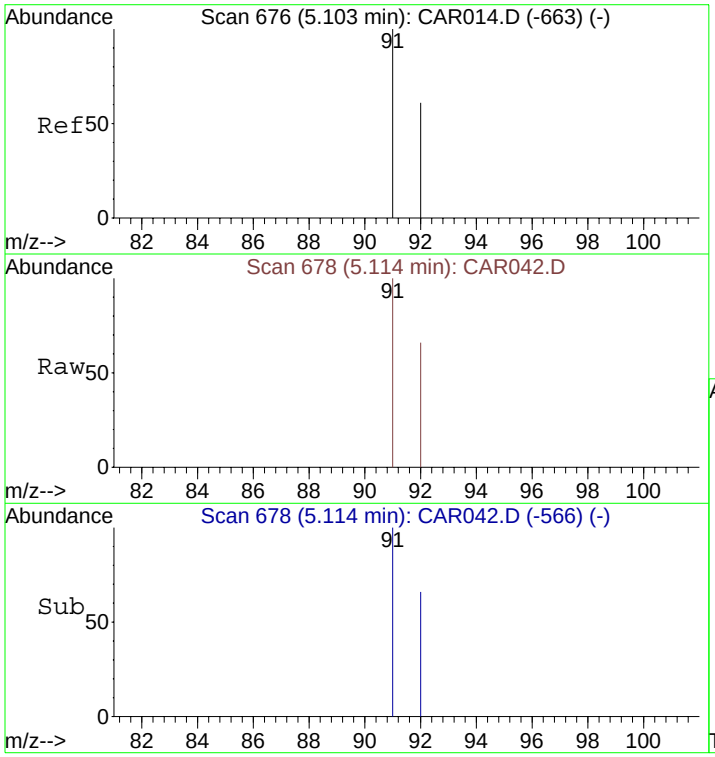


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.82 min Scan# 819
Delta R.T. 0.03 min
Lab File: CAR042.D
Acq: 16 Sep 2008 15:00

Tgt Ion:117 Resp: 5797

Ion	Ratio	Lower	Upper
117	100		
82	44.6	38.3	57.5
119	33.7	26.0	39.0

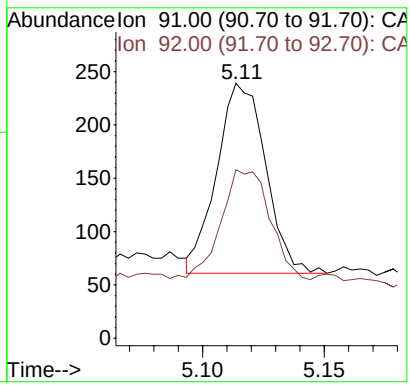


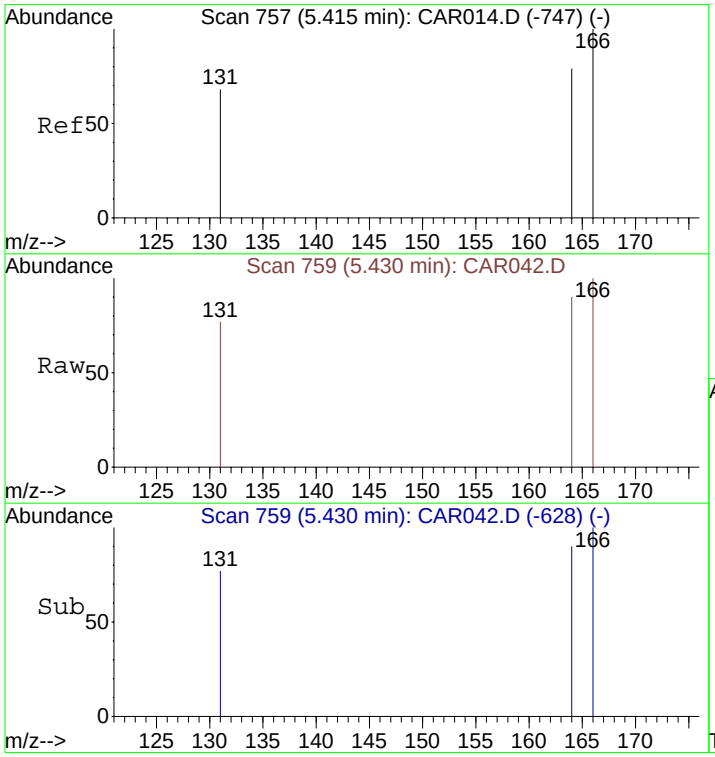


#13
Toluene
Concen: 0.70 ppbv
RT: 5.11 min Scan# 678
Delta R.T. 0.01 min
Lab File: CAR042.D
Acq: 16 Sep 2008 15:00

Tgt Ion: 91 Resp: 248

Ion	Ratio	Lower	Upper
91	100		
92	57.7	48.2	72.2

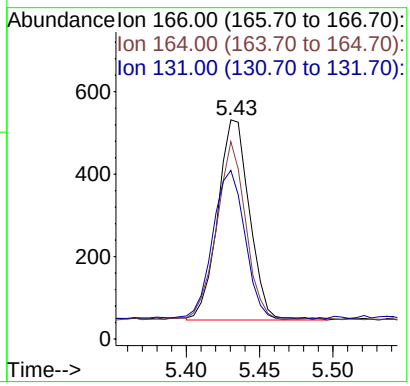




#14
Tetrachloroethene
Concen: 3.46 ppbv
RT: 5.43 min Scan# 759
Delta R.T. 0.02 min
Lab File: CAR042.D
Acq: 16 Sep 2008 15:00

Tgt Ion:166 Resp: 732

Ion	Ratio	Lower	Upper
166	100		
164	80.3	63.1	94.7
131	73.5	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR043.D Vial: 1
Acq On : 16 Sep 2008 15:11 Operator: dlm
Sample : 51370\E1-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 15:19:05 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 06:10:49 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1925	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	6343	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.82	117	6262	10.00 ppbv	0.03

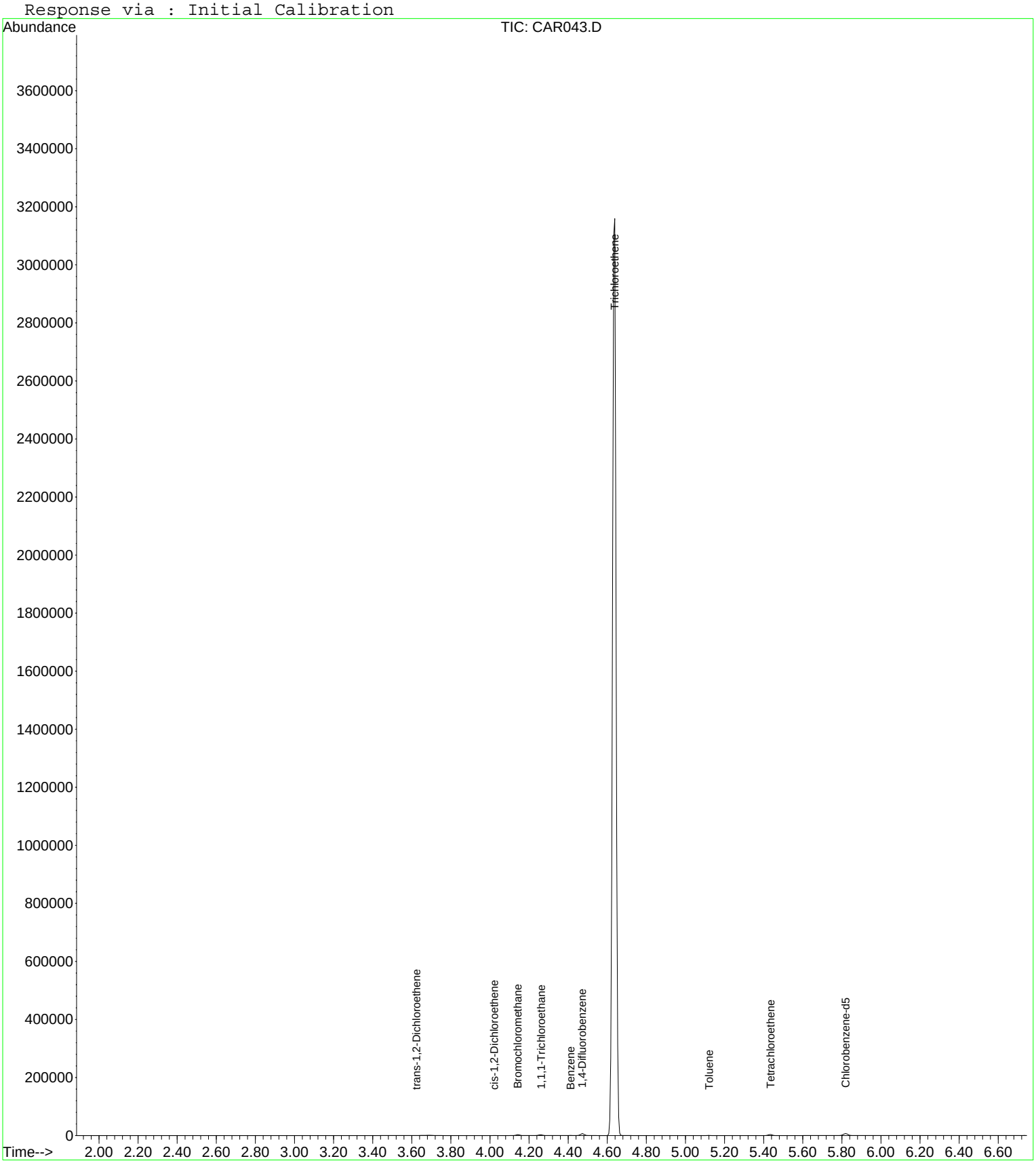
Target Compounds					Qvalue
5) trans-1,2-Dichloroethene	3.62	61	99	0.61 ppbv #	87
7) cis-1,2-Dichloroethene	4.02	61	117m	0.72 ppbv	
8) 1,1,1-Trichloroethane	4.26	97	1875	7.80 ppbv #	86
10) Benzene	4.41	78	376m	0.97 ppbv	
11) Trichloroethene	4.64	130	1423377	7577.91 ppbv	94
13) Toluene	5.12	91	487	1.28 ppbv	98
14) Tetrachloroethene	5.44	166	2118	9.26 ppbv	96

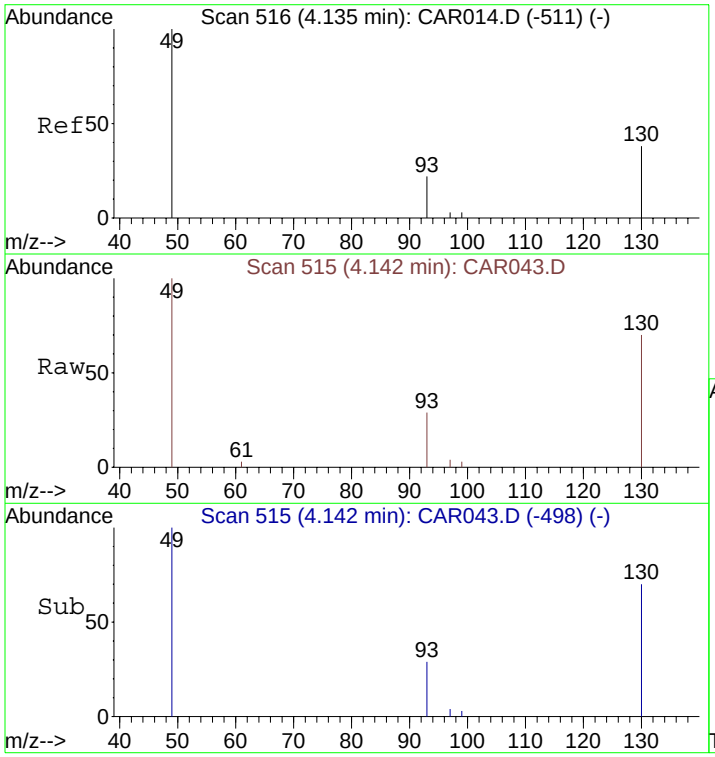
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR043.D Vial: 1
Acq On : 16 Sep 2008 15:11 Operator: dlm
Sample : 51370\E1-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:30 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Thu Oct 02 13:10:18 2008
Response via : Initial Calibration

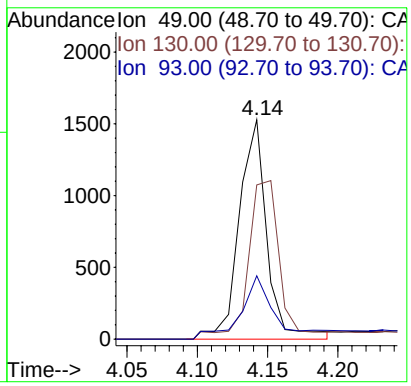


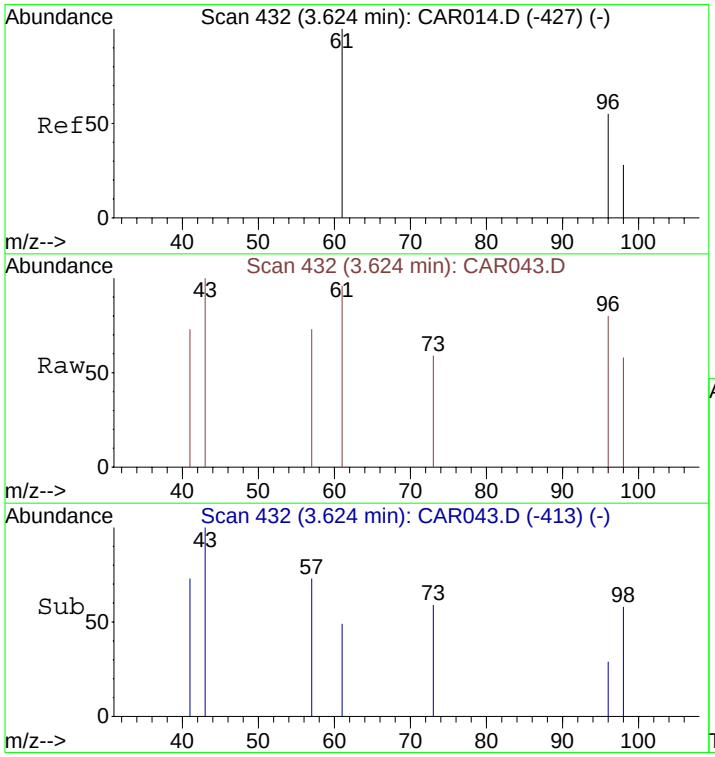


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 515
Delta R.T. 0.01 min
Lab File: CAR043.D
Acq: 16 Sep 2008 15:11

Tgt Ion: 49 Resp: 1925

Ion	Ratio	Lower	Upper
49	100		
130	80.0	65.1	97.7
93	36.2	33.8	50.6

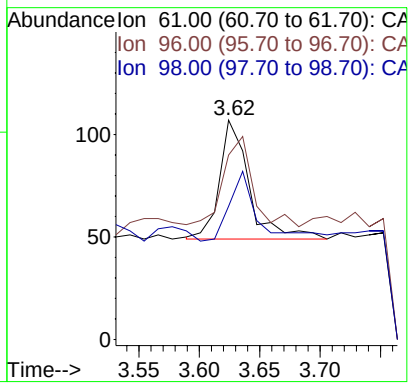


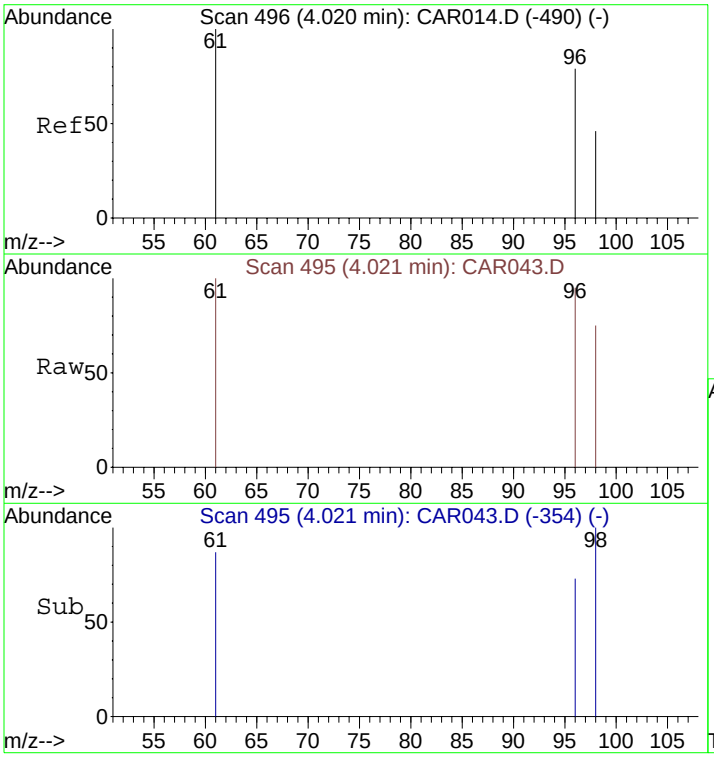


#5
trans-1,2-Dichloroethene
Concen: 0.61 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR043.D
Acq: 16 Sep 2008 15:11

Tgt Ion: 61 Resp: 99

Ion	Ratio	Lower	Upper
61	100		
96	75.8	55.0	82.4
98	57.6	35.6	53.4#

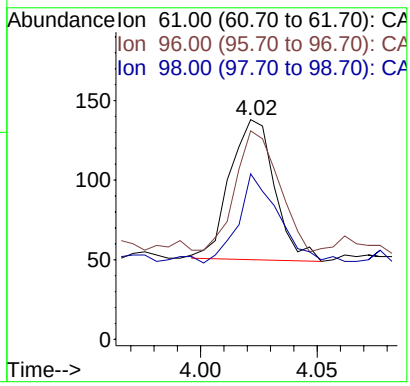


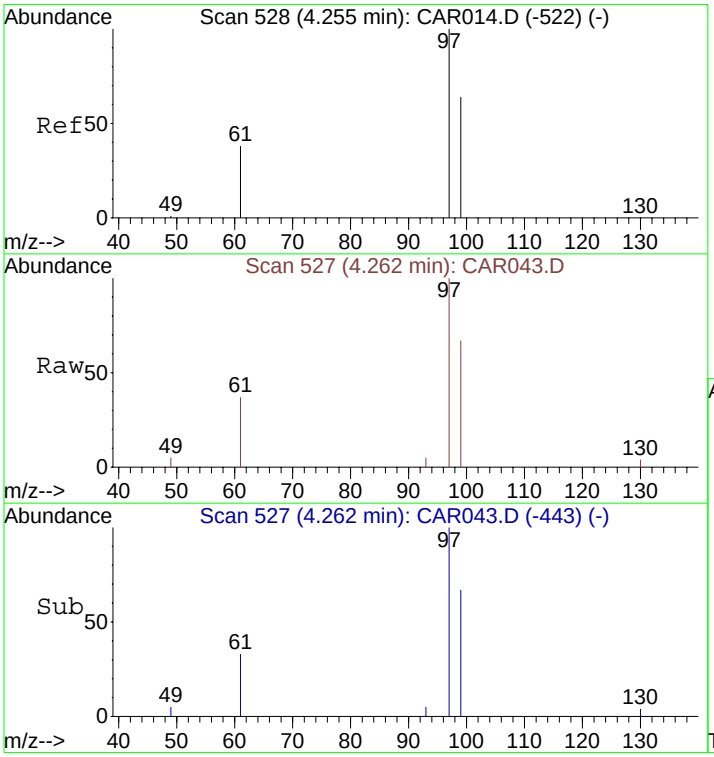


#7
cis-1,2-Dichloroethene
Concen: 0.72 ppbv m
RT: 4.02 min Scan# 495
Delta R.T. 0.40 min
Lab File: CAR043.D
Acq: 16 Sep 2008 15:11

Tgt Ion: 61 Resp: 117

Ion	Ratio	Lower	Upper
61	100		
96	83.8	56.0	84.0
98	53.8	36.2	54.4

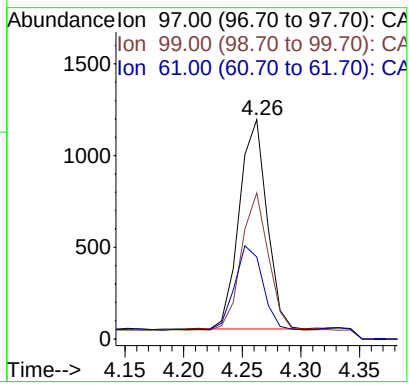


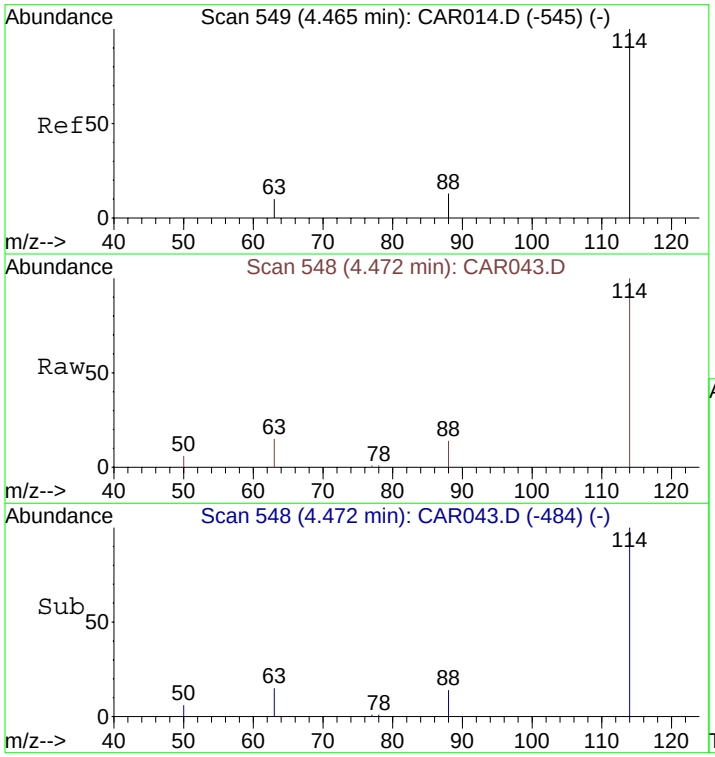


#8
1,1,1-Trichloroethane
Concen: 7.80 ppbv
RT: 4.26 min Scan# 527
Delta R.T. 0.01 min
Lab File: CAR043.D
Acq: 16 Sep 2008 15:11

Tgt Ion: 97 Resp: 1875

Ion	Ratio	Lower	Upper
97	100		
99	82.6	51.8	77.8#
61	40.2	32.1	48.1

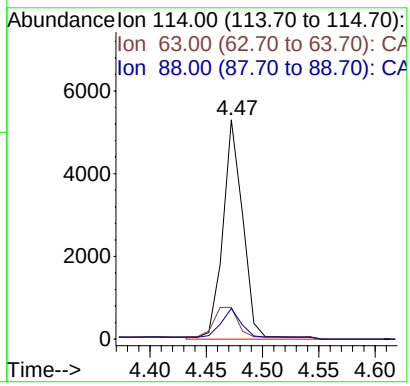


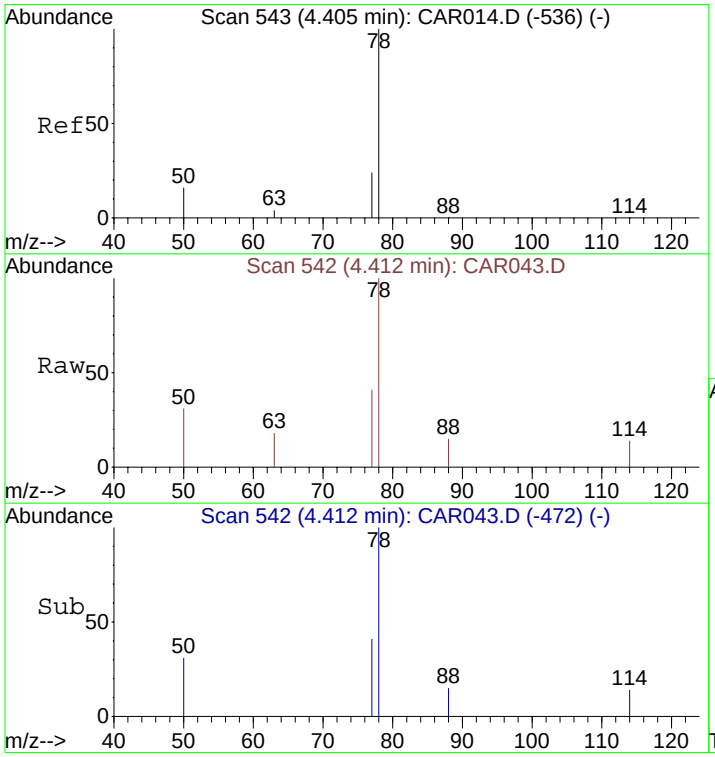


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 548
Delta R.T. 0.01 min
Lab File: CAR043.D
Acq: 16 Sep 2008 15:11

Tgt Ion:114 Resp: 6343

Ion	Ratio	Lower	Upper
114	100		
63	21.0	15.8	23.8
88	17.8	12.2	18.2

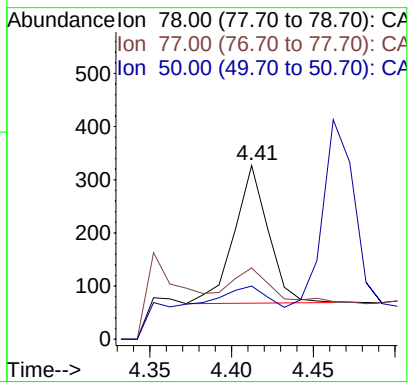


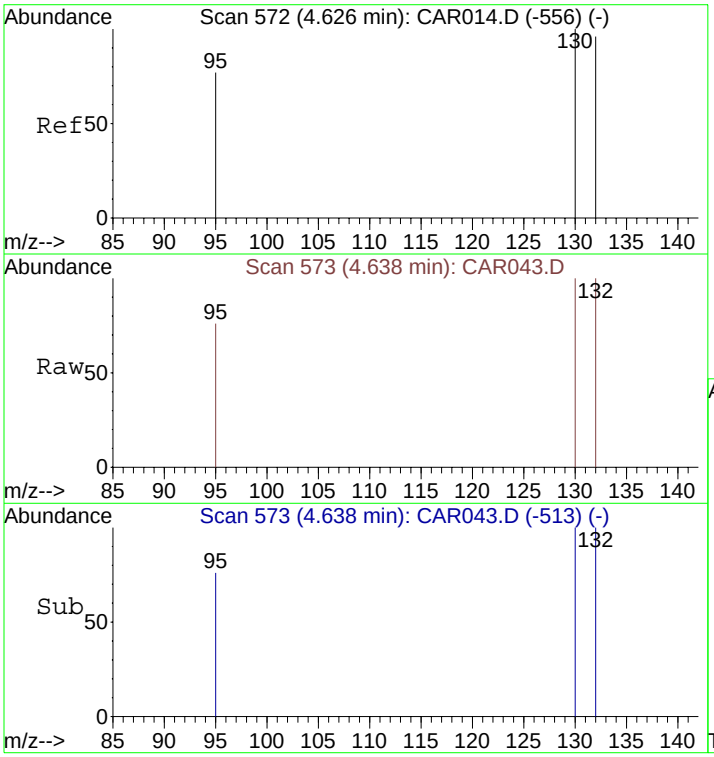


#10
Benzene
Concen: 0.97 ppbv m
RT: 4.41 min Scan# 542
Delta R.T. 0.01 min
Lab File: CAR043.D
Acq: 16 Sep 2008 15:11

Tgt Ion: 78 Resp: 376

Ion	Ratio	Lower	Upper
78	100		
77	19.4	18.6	28.0
50	16.5	16.2	24.4

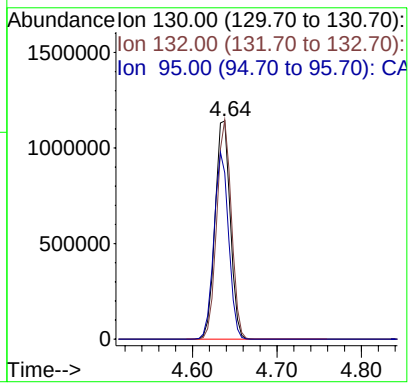


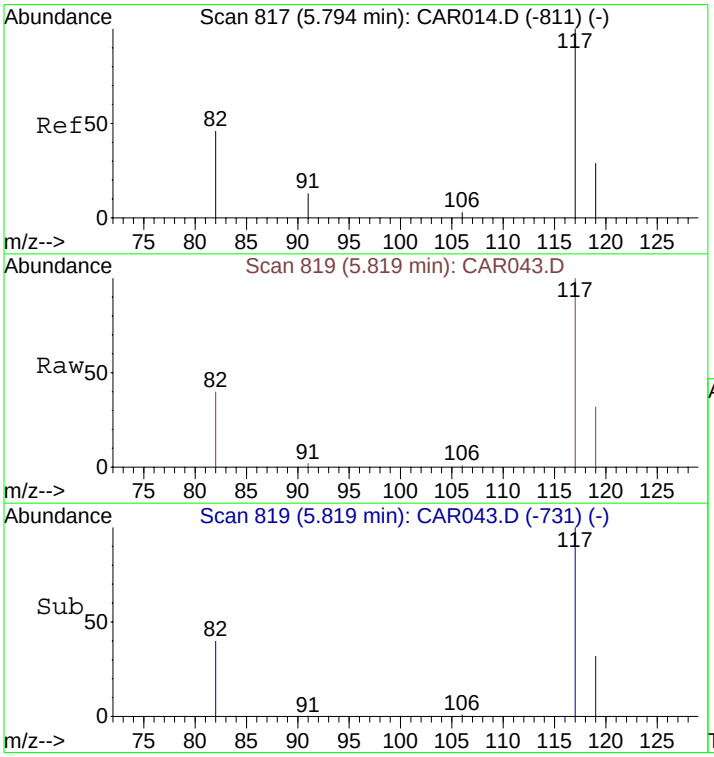


#11
Trichloroethene
Concen: 7577.91 ppbv
RT: 4.64 min Scan# 573
Delta R.T. 0.01 min
Lab File: CAR043.D
Acq: 16 Sep 2008 15:11

Tgt Ion:130 Resp: 1423377

Ion	Ratio	Lower	Upper
130	100		
132	96.5	73.8	110.6
95	82.9	72.5	108.7

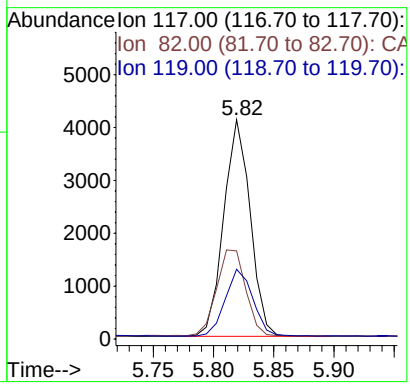


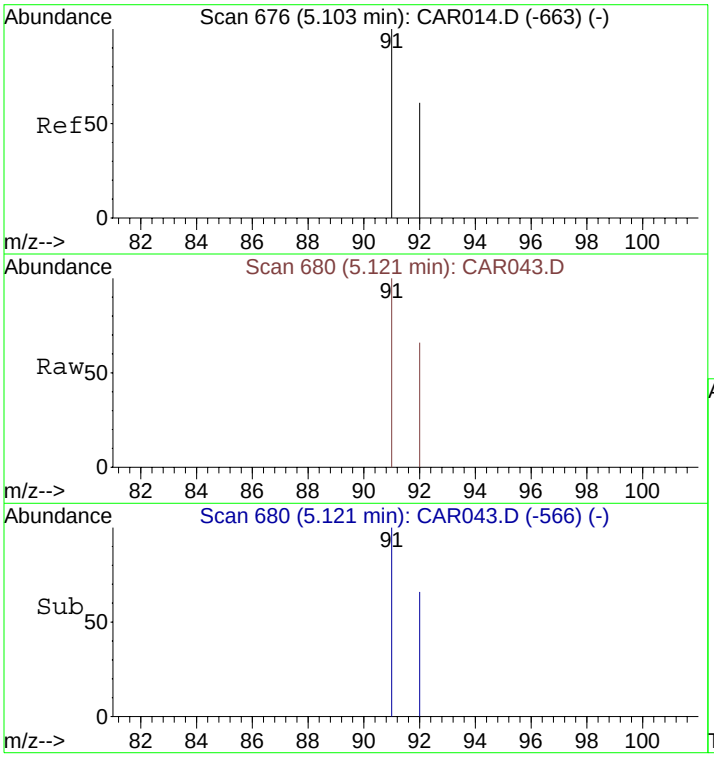


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.82 min Scan# 819
Delta R.T. 0.03 min
Lab File: CAR043.D
Acq: 16 Sep 2008 15:11

Tgt Ion:117 Resp: 6262

Ion	Ratio	Lower	Upper
117	100		
82	43.8	38.3	57.5
119	32.3	26.0	39.0

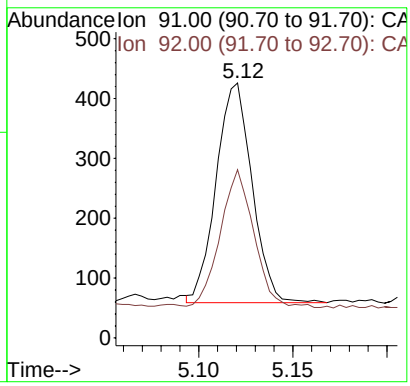


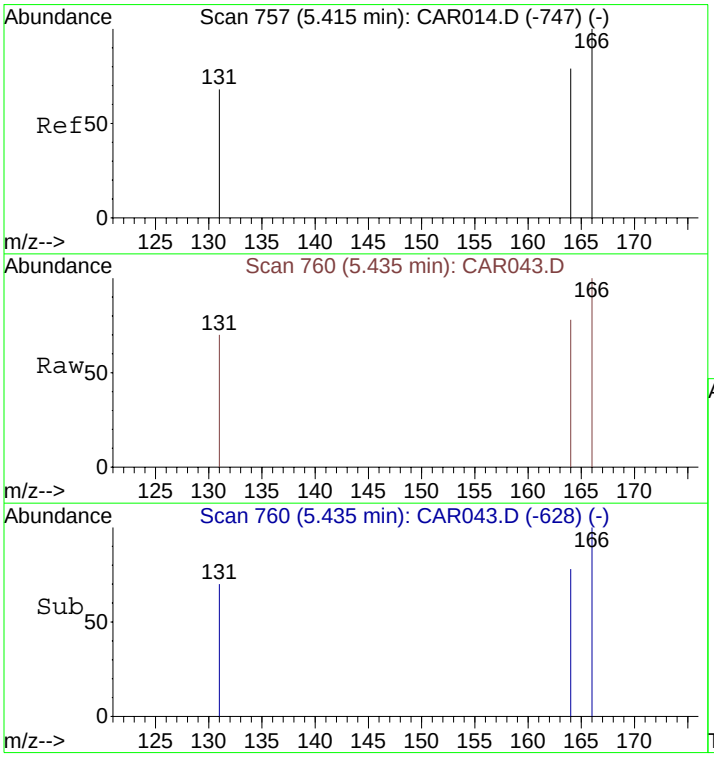


#13
Toluene
Concen: 1.28 ppbv
RT: 5.12 min Scan# 680
Delta R.T. 0.02 min
Lab File: CAR043.D
Acq: 16 Sep 2008 15:11

Tgt Ion: 91 Resp: 487

Ion	Ratio	Lower	Upper
91	100		
92	58.9	48.2	72.2

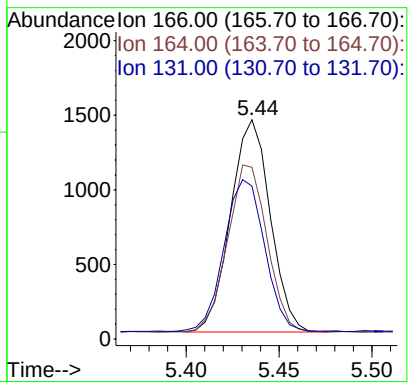




#14
Tetrachloroethene
Concen: 9.26 ppbv
RT: 5.44 min Scan# 760
Delta R.T. 0.02 min
Lab File: CAR043.D
Acq: 16 Sep 2008 15:11

Tgt Ion:166 Resp: 2118

Ion	Ratio	Lower	Upper
166	100		
164	78.2	63.1	94.7
131	73.0	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR044.D Vial: 1
Acq On : 16 Sep 2008 15:21 Operator: dlm
Sample : 51371\D1-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 15:29:39 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 06:10:49 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.15	49	1881	10.00 ppbv	0.01
9) 1,4-Difluorobenzene	4.49	114	6206	10.00 ppbv	0.02
12) Chlorobenzene-d5	5.84	117	5706	10.00 ppbv	0.05

Target Compounds					Qvalue
5) trans-1,2-Dichloroethene	3.62	61	8935	56.54 ppbv	92
7) cis-1,2-Dichloroethene	4.02	61	7932m	50.19 ppbv	
8) 1,1,1-Trichloroethane	4.27	97	1078	4.59 ppbv	93
10) Benzene	4.42	78	1620m	4.29 ppbv	
11) Trichloroethene	4.65	130	2984356	16239.13 ppbv *	92
13) Toluene	5.14	91	762	2.20 ppbv	100
14) Tetrachloroethene	5.46	166	3213	15.42 ppbv	96
16) m&p-Xylenes	5.92	91	350	1.24 ppbv	100
17) o-Xylene	6.21	91	199	0.61 ppbv	95

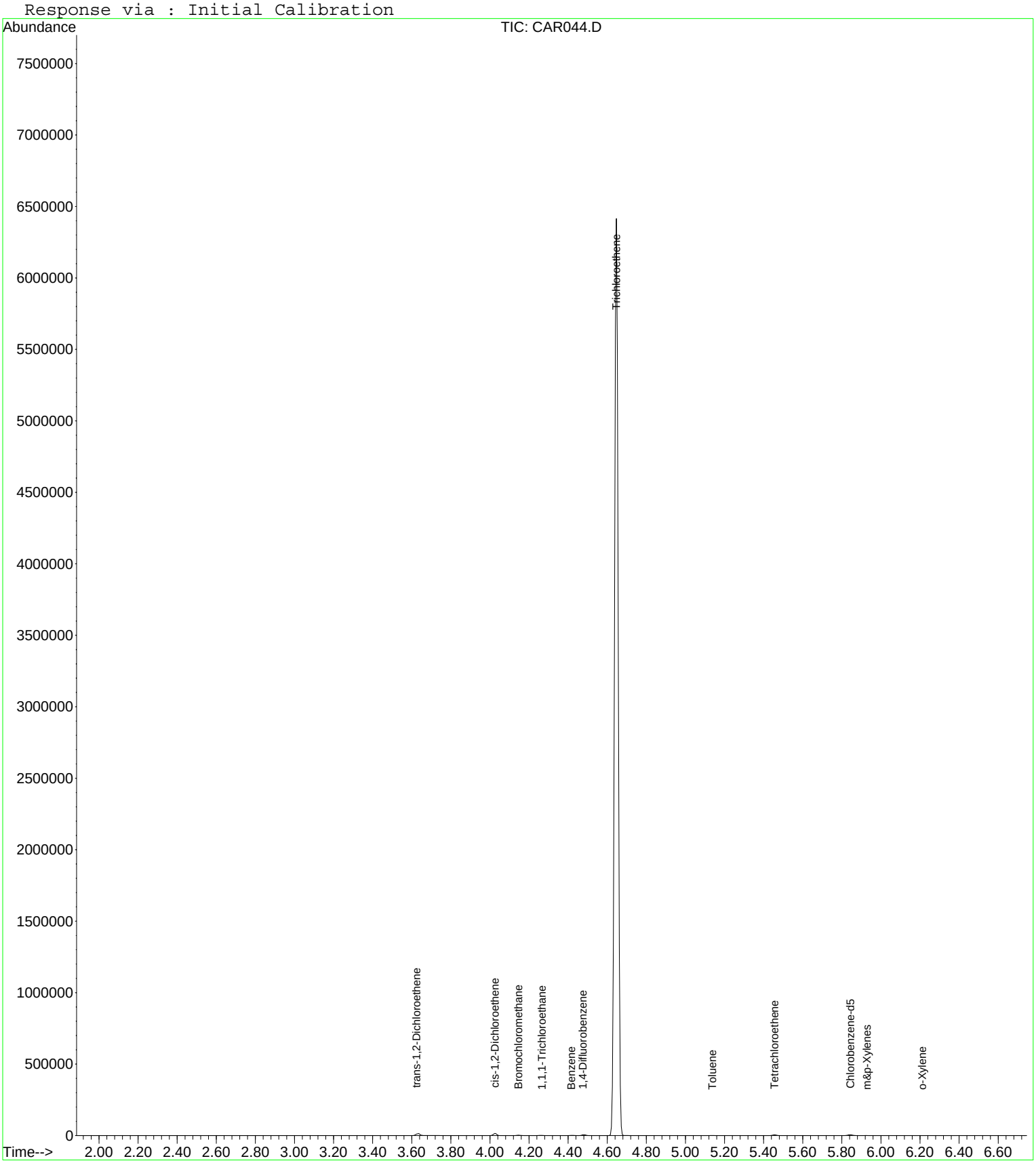
* Value from file CAR050 reported.

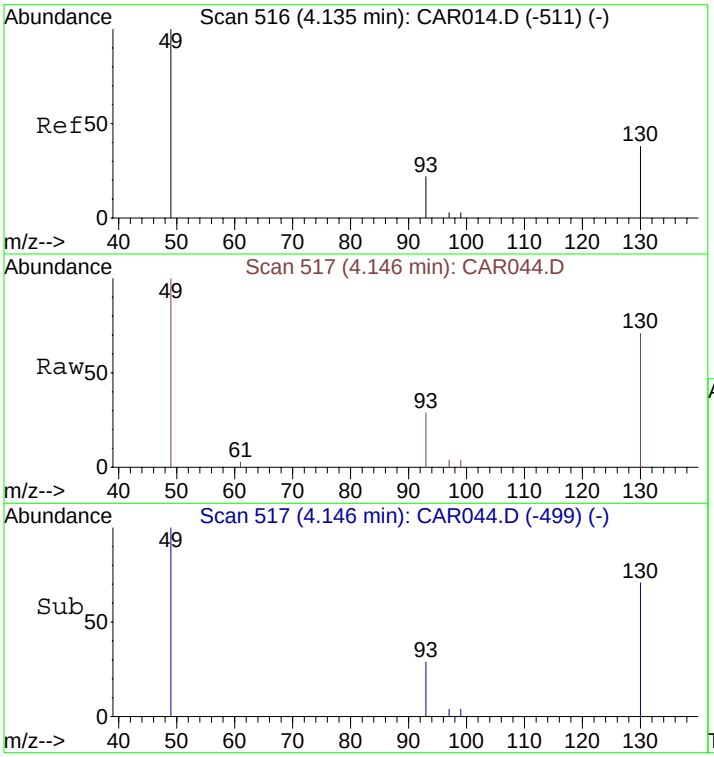
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR044.D Vial: 1
Acq On : 16 Sep 2008 15:21 Operator: dlm
Sample : 51371\D1-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 13:24 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 10:37:21 2008
Response via : Initial Calibration

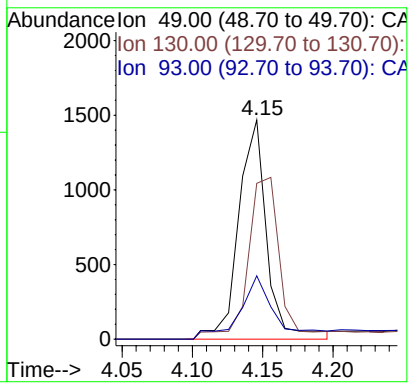


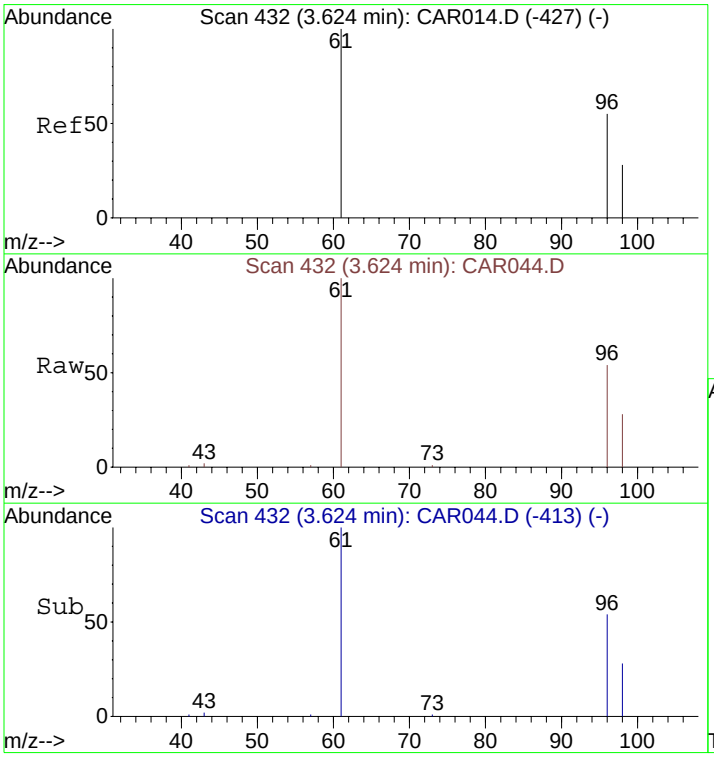


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.15 min Scan# 517
Delta R.T. 0.01 min
Lab File: CAR044.D
Acq: 16 Sep 2008 15:21

Tgt Ion: 49 Resp: 1881

Ion	Ratio	Lower	Upper
49	100		
130	80.9	65.1	97.7
93	36.9	33.8	50.6

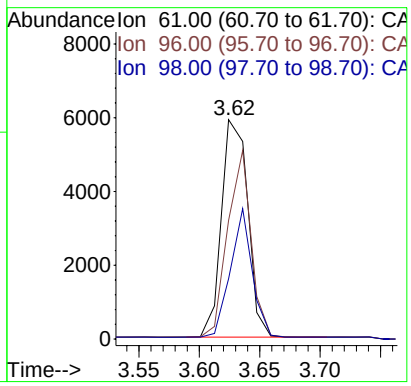


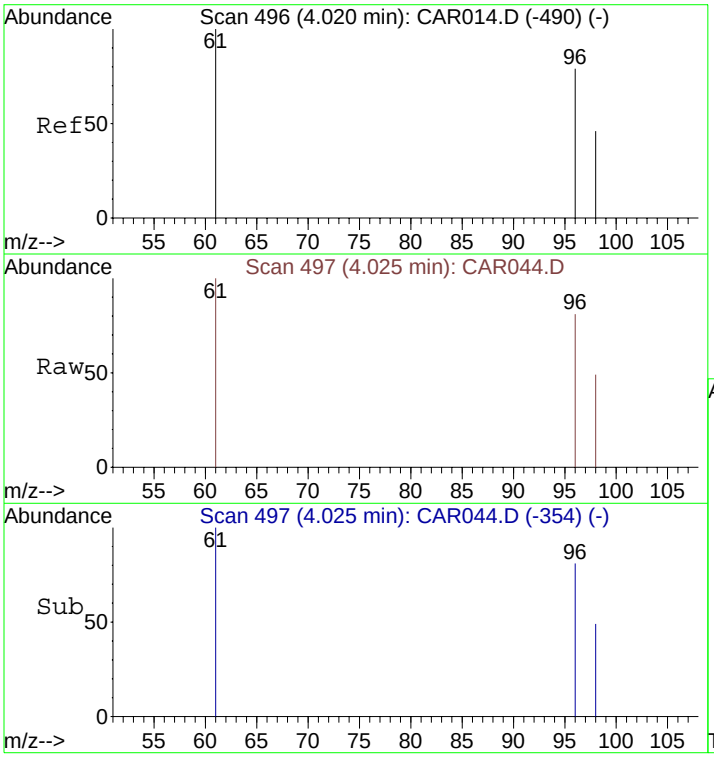


#5
trans-1,2-Dichloroethene
Concen: 56.54 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR044.D
Acq: 16 Sep 2008 15:21

Tgt Ion: 61 Resp: 8935

Ion	Ratio	Lower	Upper
61	100		
96	75.7	55.0	82.4
98	49.0	35.6	53.4

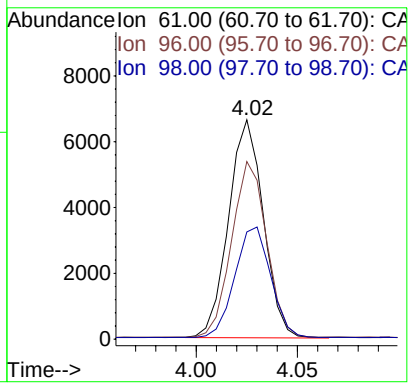


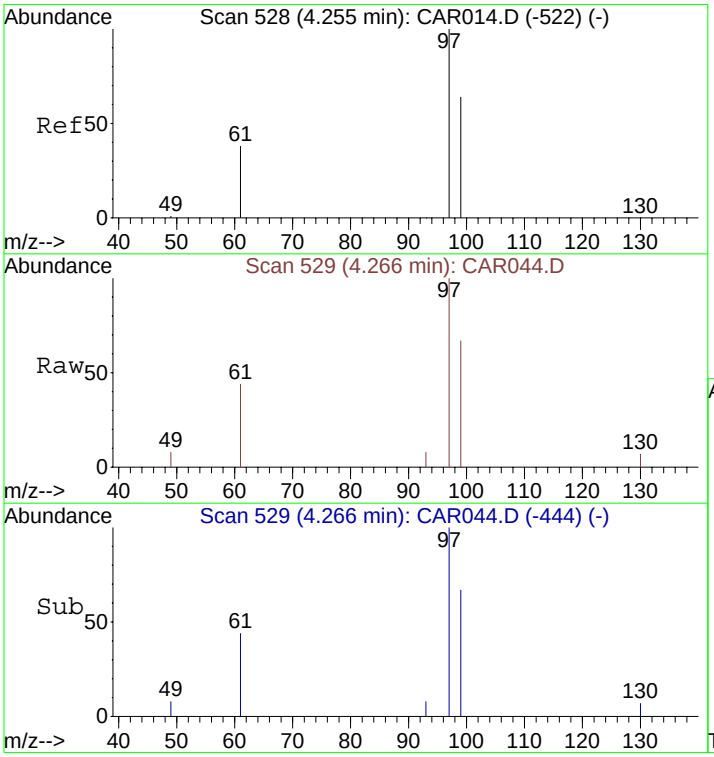


#7
cis-1,2-Dichloroethene
Concen: 50.19 ppbv m
RT: 4.02 min Scan# 497
Delta R.T. 0.40 min
Lab File: CAR044.D
Acq: 16 Sep 2008 15:21

Tgt Ion: 61 Resp: 7932

Ion	Ratio	Lower	Upper
61	100		
96	82.9	56.0	84.0
98	54.6	36.2	54.4#

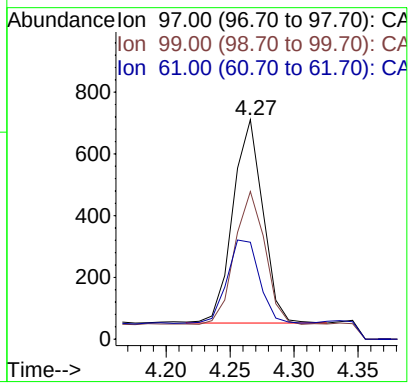


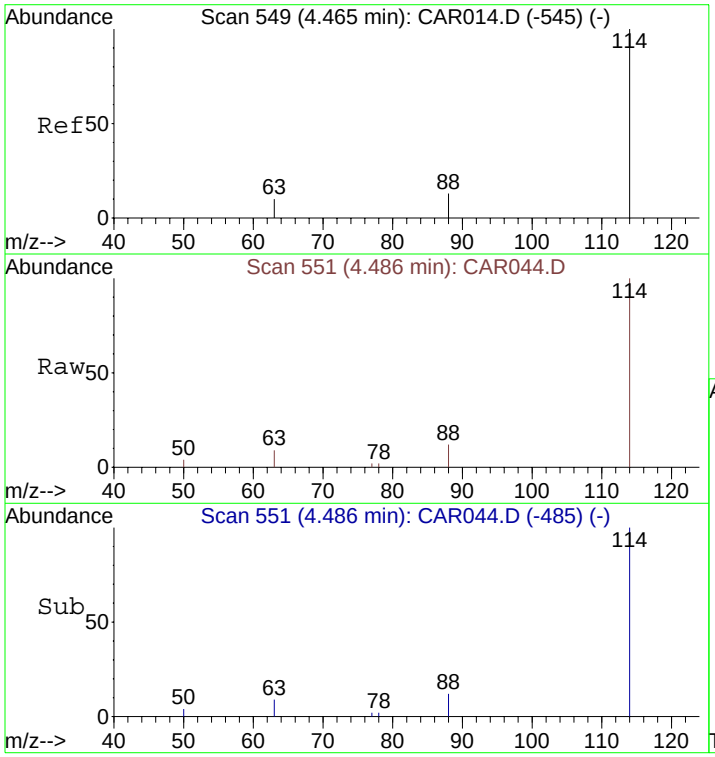


#8
1,1,1-Trichloroethane
Concen: 4.59 ppbv
RT: 4.27 min Scan# 529
Delta R.T. 0.01 min
Lab File: CAR044.D
Acq: 16 Sep 2008 15:21

Tgt Ion: 97 Resp: 1078

Ion	Ratio	Lower	Upper
97	100		
99	71.3	51.8	77.8
61	43.6	32.1	48.1

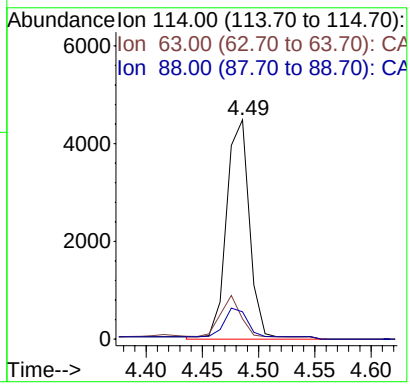


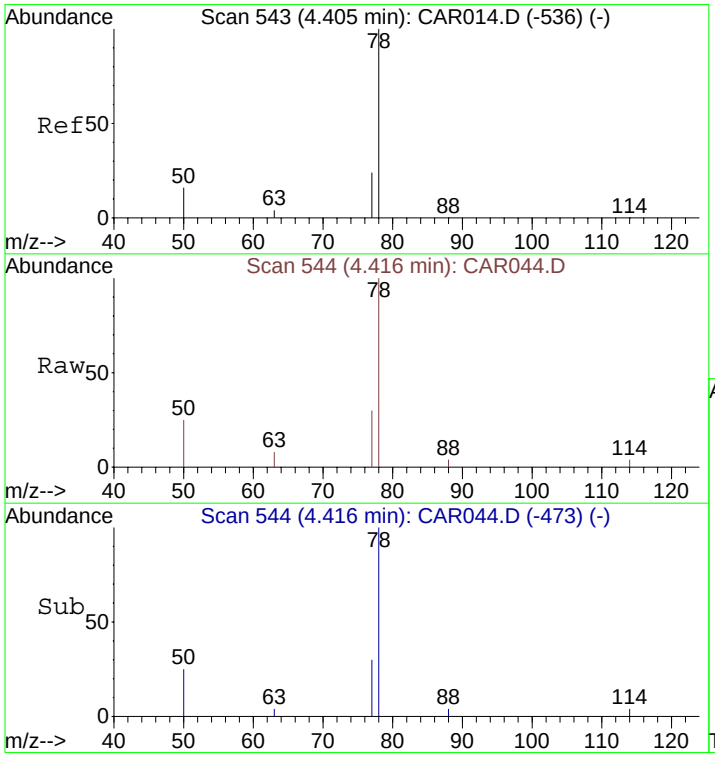


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.49 min Scan# 551
Delta R.T. 0.02 min
Lab File: CAR044.D
Acq: 16 Sep 2008 15:21

Tgt Ion:114 Resp: 6206

Ion	Ratio	Lower	Upper
114	100		
63	20.9	15.8	23.8
88	17.6	12.2	18.2

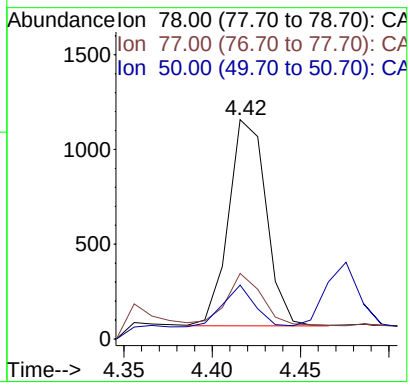


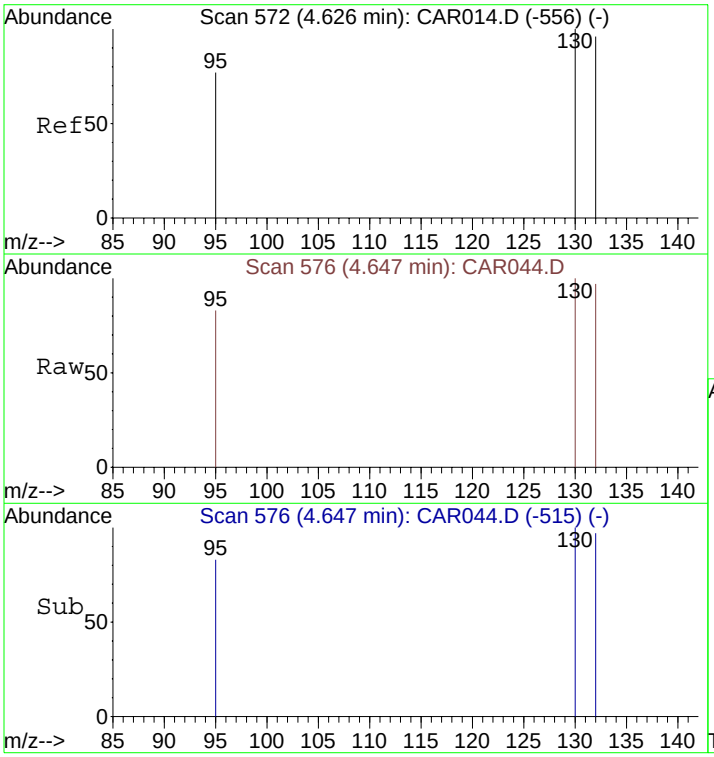


#10
Benzene
Concen: 4.29 ppbv m
RT: 4.42 min Scan# 544
Delta R.T. 0.01 min
Lab File: CAR044.D
Acq: 16 Sep 2008 15:21

Tgt Ion: 78 Resp: 1620

Ion	Ratio	Lower	Upper
78	100		
77	22.3	18.6	28.0
50	19.8	16.2	24.4

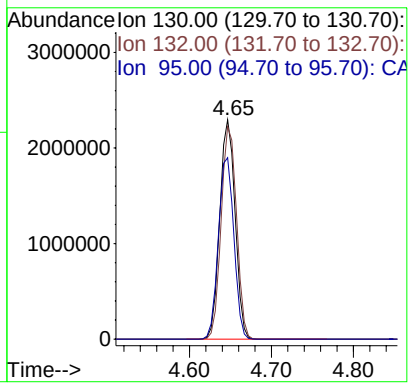


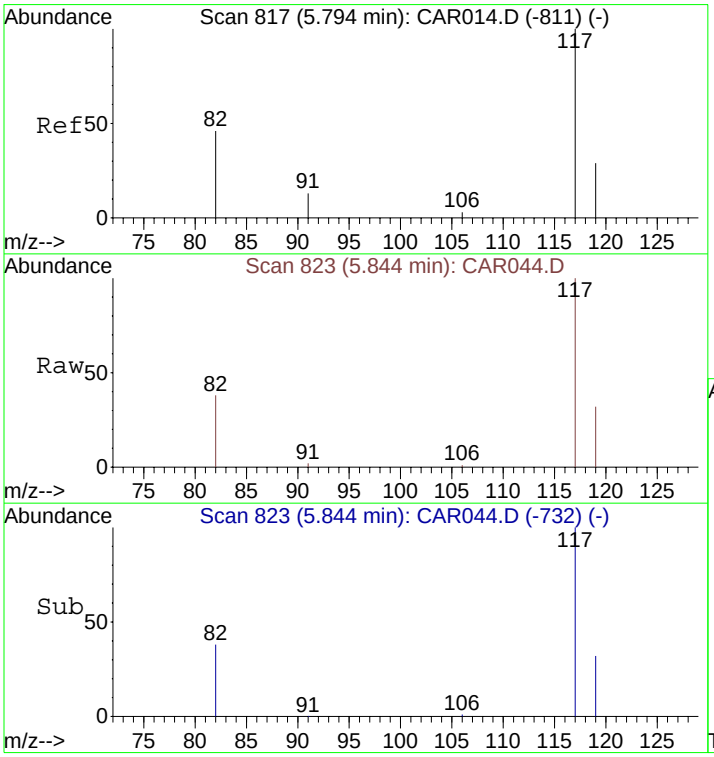


#11
Trichloroethene
Concen: 16239.13 ppbv
RT: 4.65 min Scan# 576
Delta R.T. 0.02 min
Lab File: CAR044.D
Acq: 16 Sep 2008 15:21

Tgt Ion:130 Resp: 2984356

Ion	Ratio	Lower	Upper
130	100		
132	101.3	73.8	110.6
95	83.7	72.5	108.7

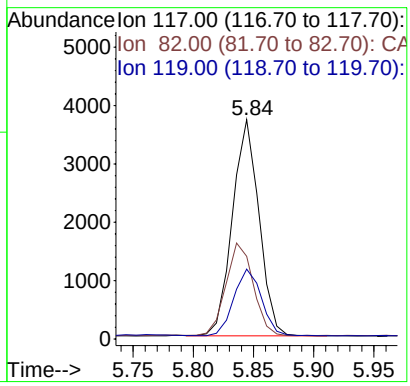


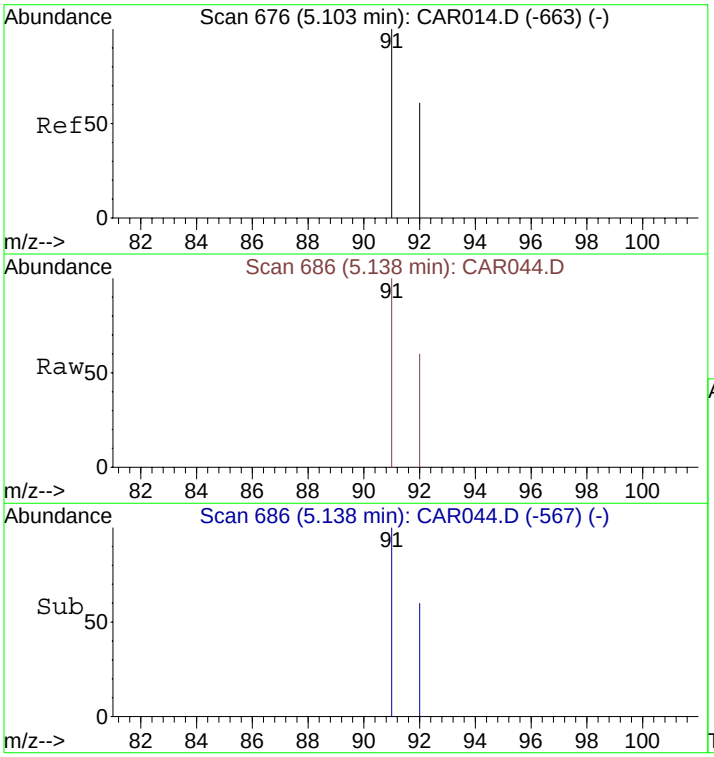


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.84 min Scan# 823
Delta R.T. 0.05 min
Lab File: CAR044.D
Acq: 16 Sep 2008 15:21

Tgt Ion:117 Resp: 5706

Ion	Ratio	Lower	Upper
117	100		
82	44.0	38.3	57.5
119	32.2	26.0	39.0

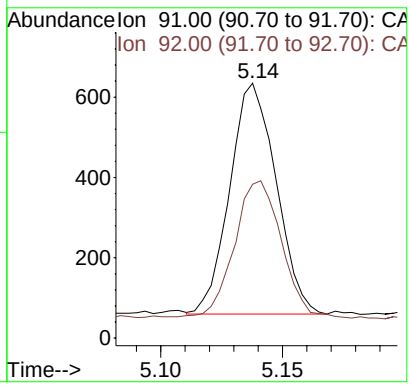


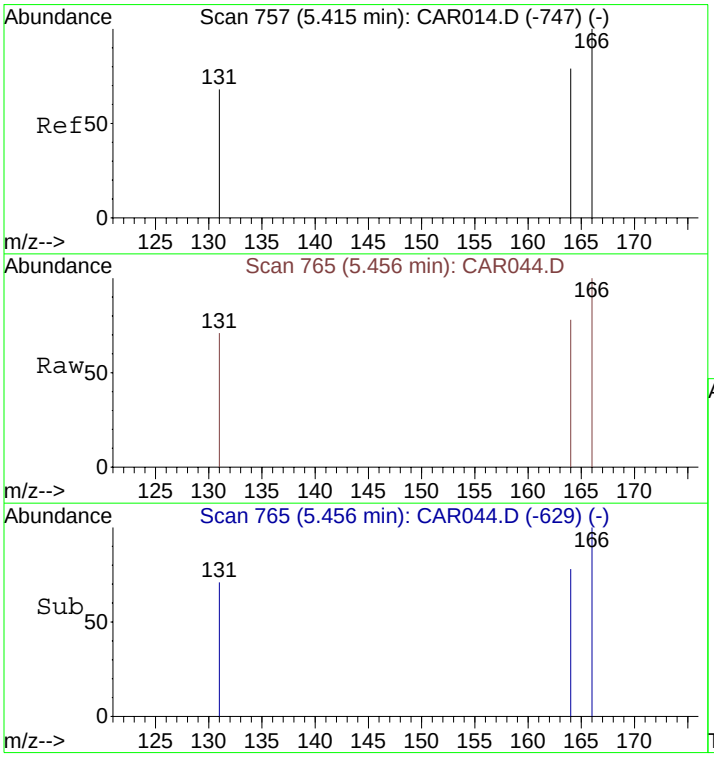


#13
Toluene
Concen: 2.20 ppbv
RT: 5.14 min Scan# 686
Delta R.T. 0.03 min
Lab File: CAR044.D
Acq: 16 Sep 2008 15:21

Tgt Ion: 91 Resp: 762

Ion	Ratio	Lower	Upper
91	100		
92	60.1	48.2	72.2

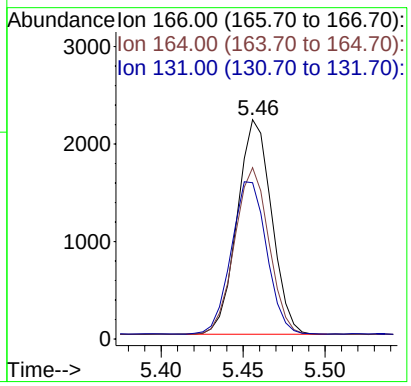


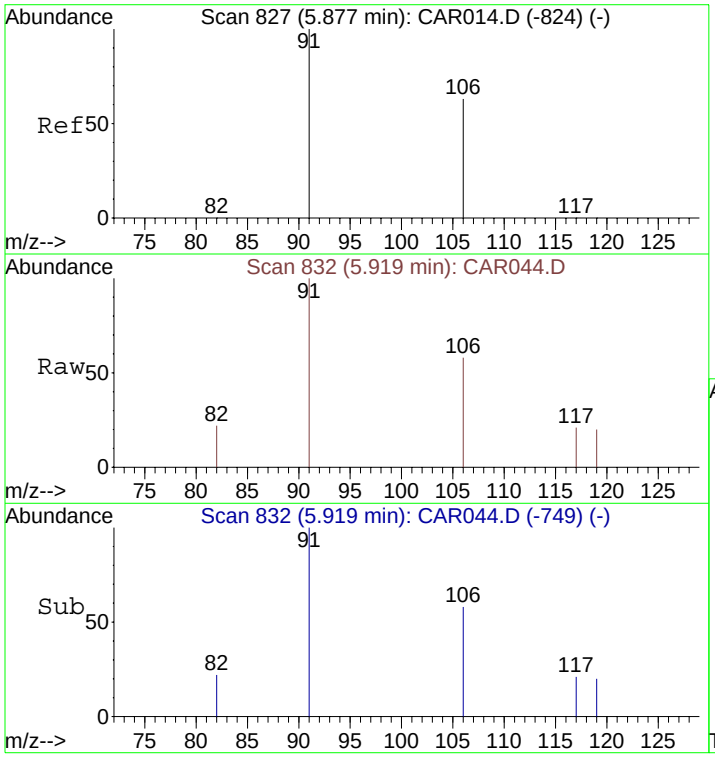


#14
Tetrachloroethene
Concen: 15.42 ppbv
RT: 5.46 min Scan# 765
Delta R.T. 0.04 min
Lab File: CAR044.D
Acq: 16 Sep 2008 15:21

Tgt Ion:166 Resp: 3213

Ion	Ratio	Lower	Upper
166	100		
164	77.3	63.1	94.7
131	73.1	62.9	94.3

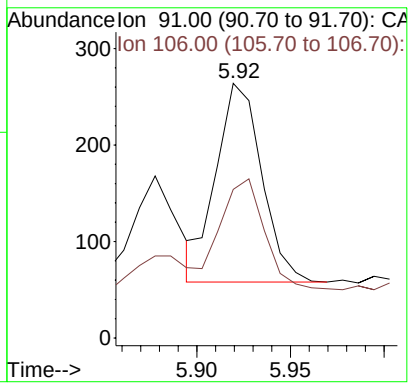


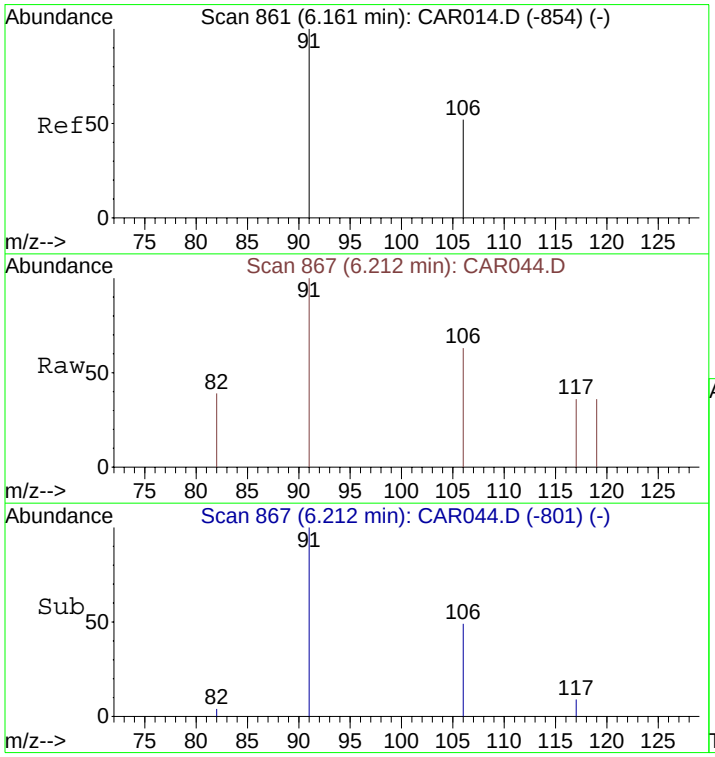


#16
m&p-Xylenes
Concen: 1.24 ppbv
RT: 5.92 min Scan# 832
Delta R.T. 0.04 min
Lab File: CAR044.D
Acq: 16 Sep 2008 15:21

Tgt Ion: 91 Resp: 350

Ion	Ratio	Lower	Upper
91	100		
106	52.3	41.8	62.8

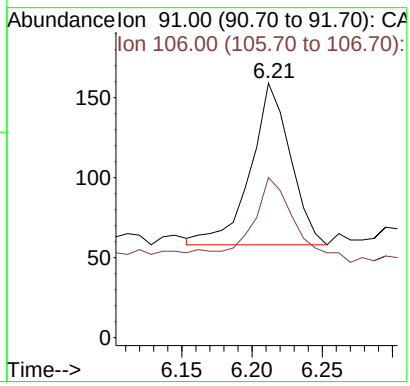




#17
o-Xylene
Concen: 0.61 ppbv
RT: 6.21 min Scan# 867
Delta R.T. 0.05 min
Lab File: CAR044.D
Acq: 16 Sep 2008 15:21

Tgt Ion: 91 Resp: 199

Ion	Ratio	Lower	Upper
91	100		
106	52.3	38.9	58.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR045.D Vial: 1
Acq On : 16 Sep 2008 15:32 Operator: dlm
Sample : 51373\E3-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 15:42:03 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.15	49	1787	10.00	ppbv	0.01
9) 1,4-Difluorobenzene	4.48	114	6063	10.00	ppbv	0.01
12) Chlorobenzene-d5	5.84	117	5939	10.00	ppbv	0.04

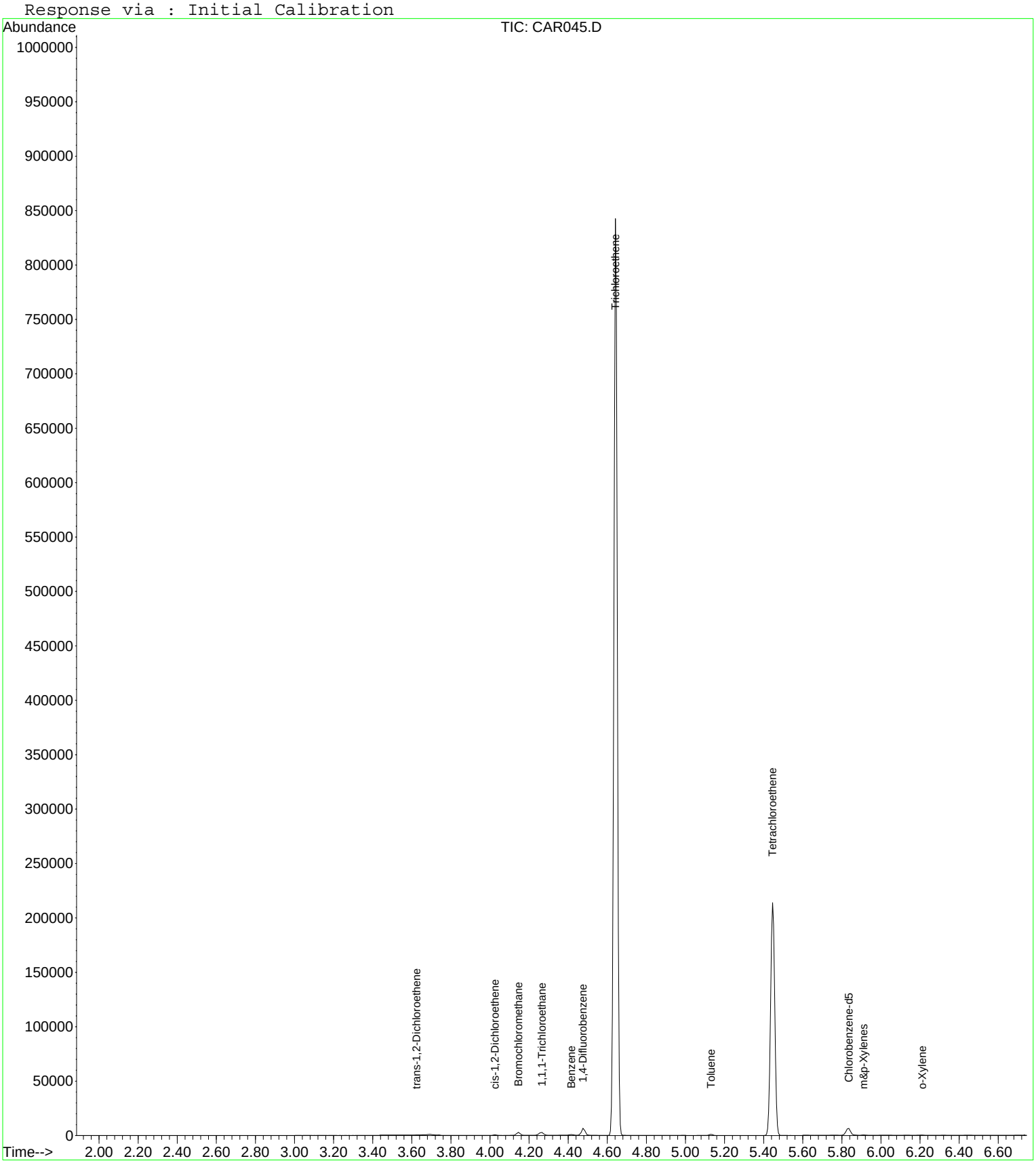
Target Compounds						Qvalue
5) trans-1,2-Dichloroethene	3.62	61	101	0.67	ppbv	95
7) cis-1,2-Dichloroethene	4.02	61	284m	1.89	ppbv	
8) 1,1,1-Trichloroethane	4.27	97	2125m	9.53	ppbv	
10) Benzene	4.42	78	599m	1.62	ppbv	
11) Trichloroethene	4.64	130	368036	2049.87	ppbv	94
13) Toluene	5.13	91	861	2.39	ppbv	99
14) Tetrachloroethene	5.45	166	125550	578.75	ppbv	96
16) m&p-Xylenes	5.91	91	342m	1.16	ppbv	
17) o-Xylene	6.21	91	266	0.79	ppbv	88

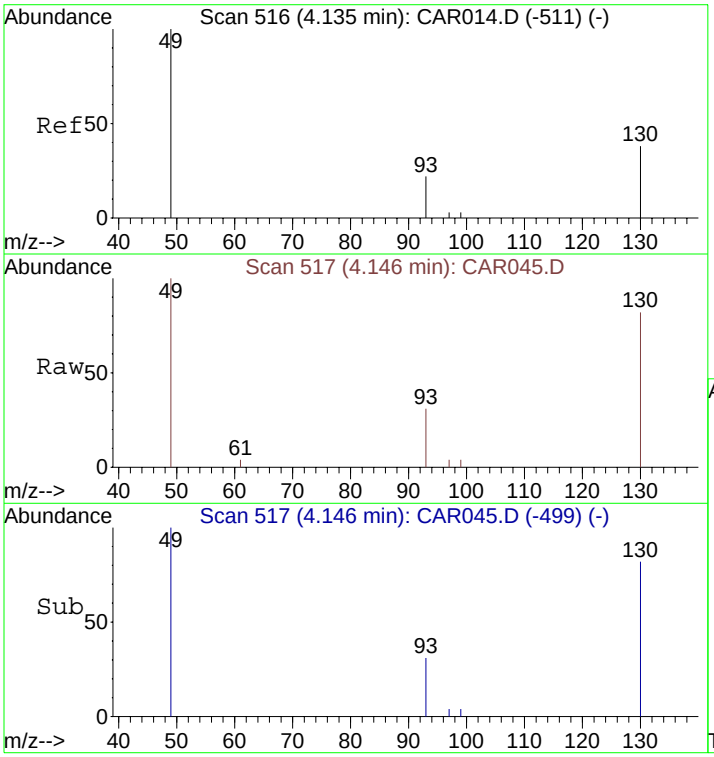
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR045.D Vial: 1
Acq On : 16 Sep 2008 15:32 Operator: dlm
Sample : 51373\E3-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 13:29 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 10:37:21 2008
Response via : Initial Calibration

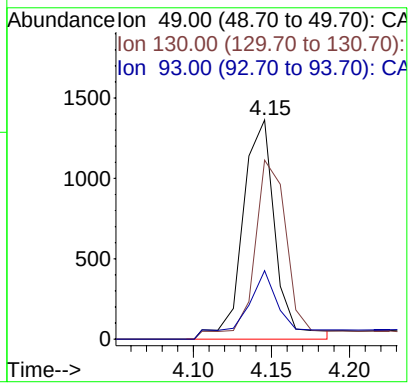


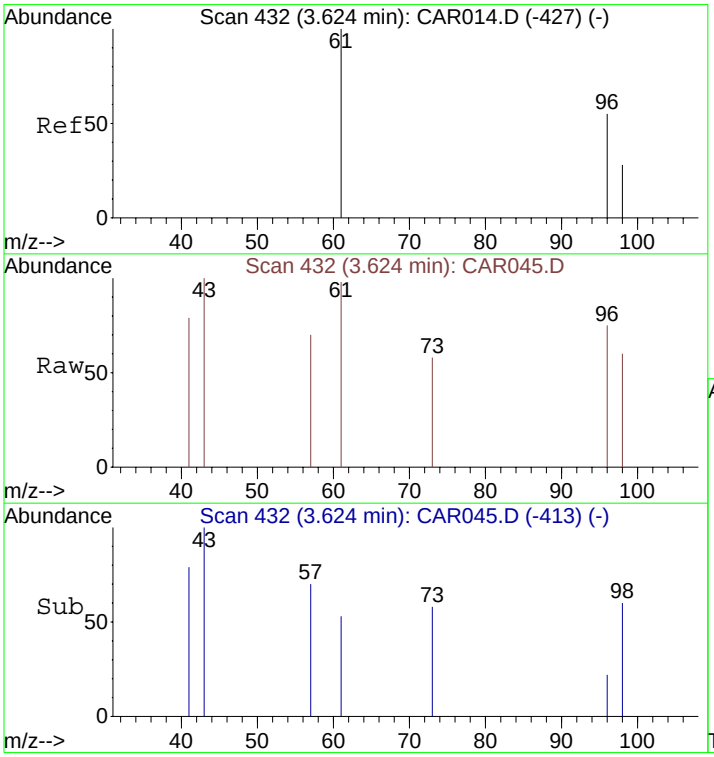


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.15 min Scan# 517
Delta R.T. 0.01 min
Lab File: CAR045.D
Acq: 16 Sep 2008 15:32

Tgt Ion: 49 Resp: 1787

Ion	Ratio	Lower	Upper
49	100		
130	83.2	65.1	97.7
93	35.6	33.8	50.6

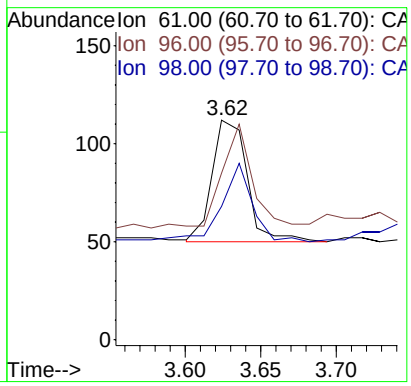


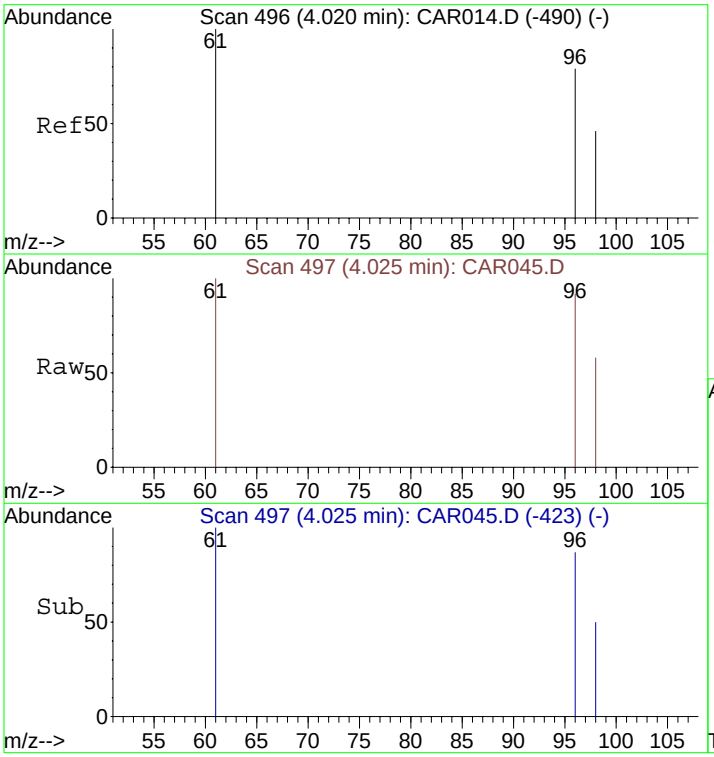


#5
trans-1,2-Dichloroethene
Concen: 0.67 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR045.D
Acq: 16 Sep 2008 15:32

Tgt Ion: 61 Resp: 101

Ion	Ratio	Lower	Upper
61	100		
96	67.3	55.0	82.4
98	51.5	35.6	53.4

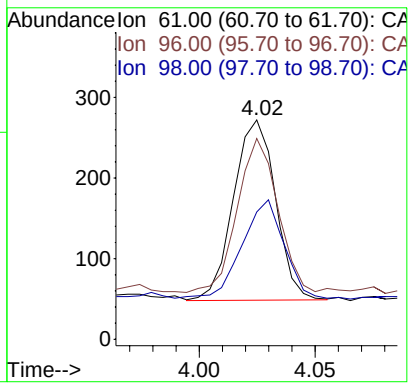


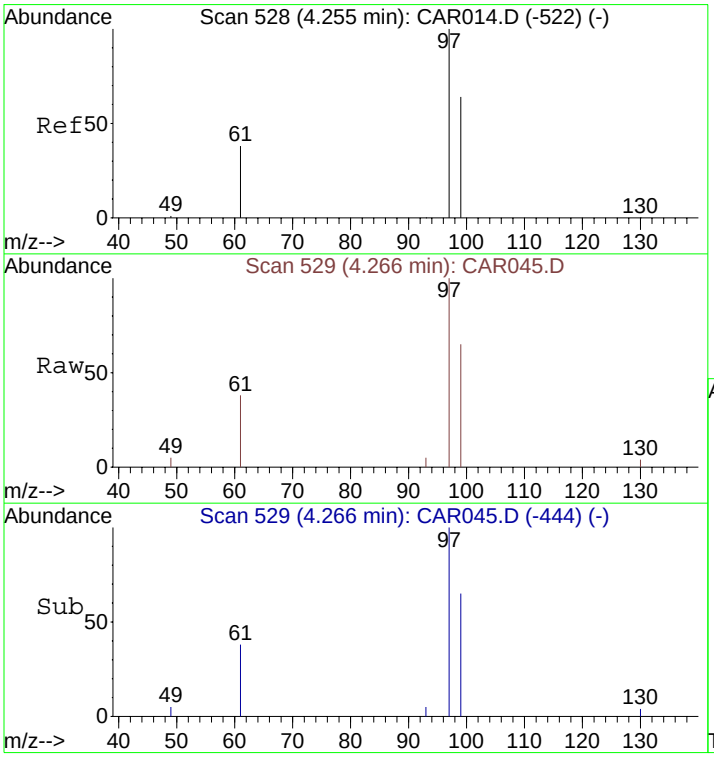


#7
cis-1,2-Dichloroethene
Concen: 1.89 ppbv m
RT: 4.02 min Scan# 497
Delta R.T. 0.01 min
Lab File: CAR045.D
Acq: 16 Sep 2008 15:32

Tgt Ion: 61 Resp: 284

Ion	Ratio	Lower	Upper
61	100		
96	78.9	56.0	84.0
98	54.6	36.2	54.4#

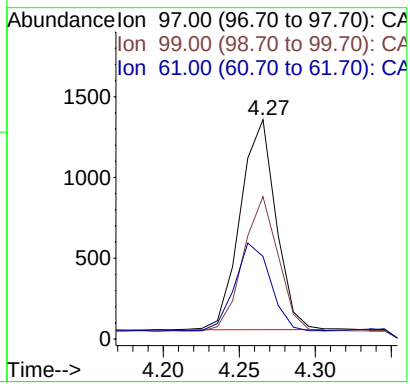


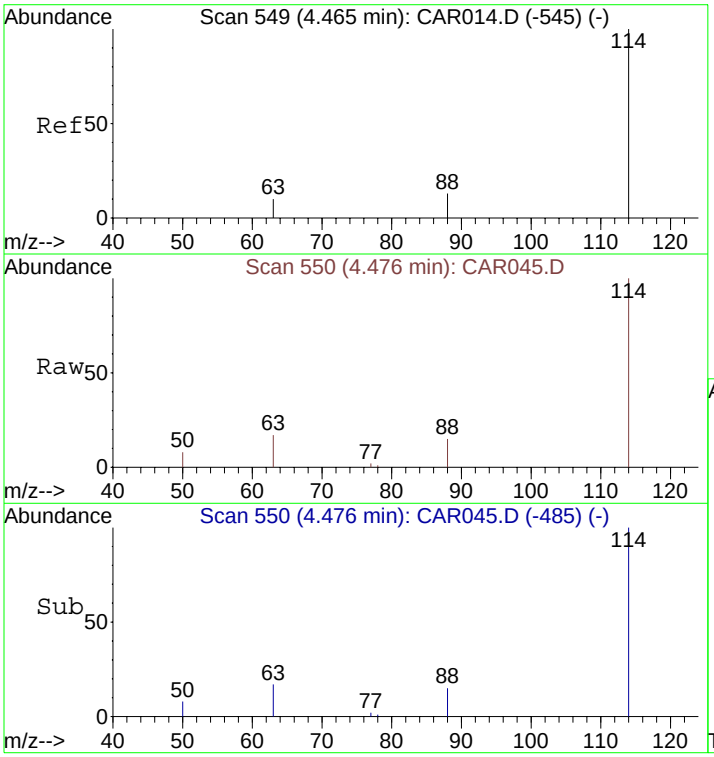


#8
1,1,1-Trichloroethane
Concen: 9.53 ppbv m
RT: 4.27 min Scan# 529
Delta R.T. 0.01 min
Lab File: CAR045.D
Acq: 16 Sep 2008 15:32

Tgt Ion: 97 Resp: 2125

Ion	Ratio	Lower	Upper
97	100		
99	79.6	51.8	77.8#
61	41.6	32.1	48.1

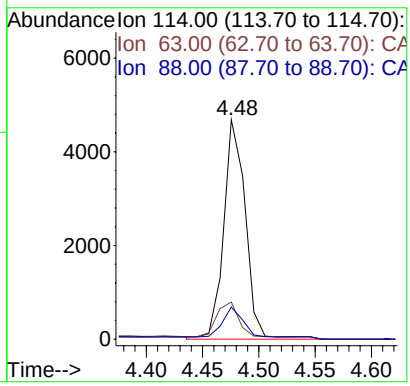


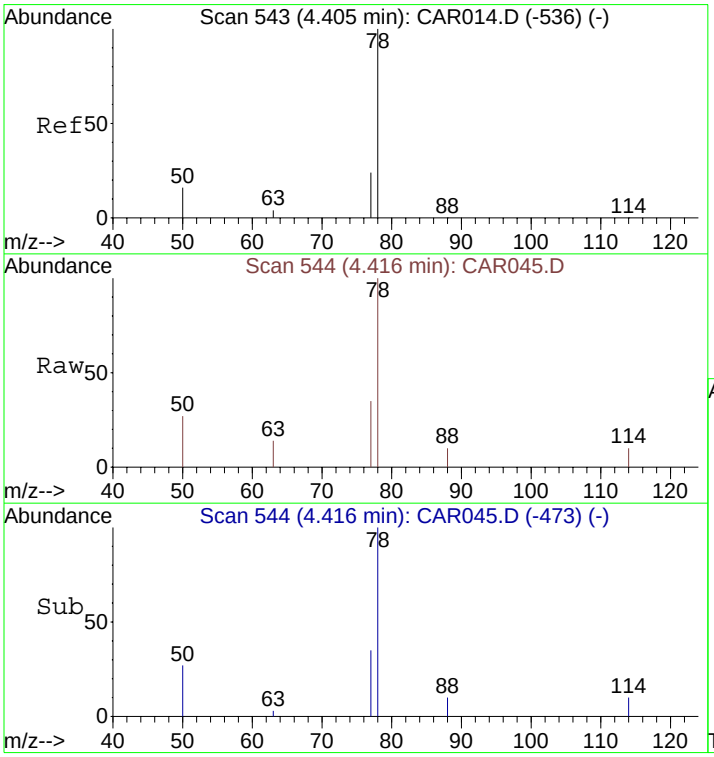


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR045.D
Acq: 16 Sep 2008 15:32

Tgt Ion:114 Resp: 6063

Ion	Ratio	Lower	Upper
114	100		
63	21.2	15.8	23.8
88	17.4	12.2	18.2

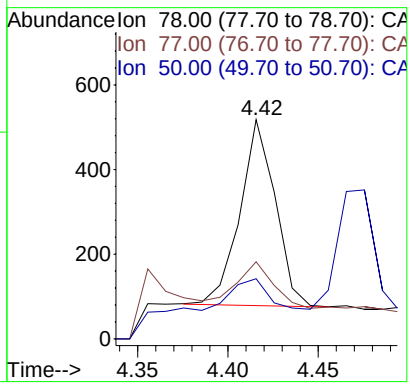


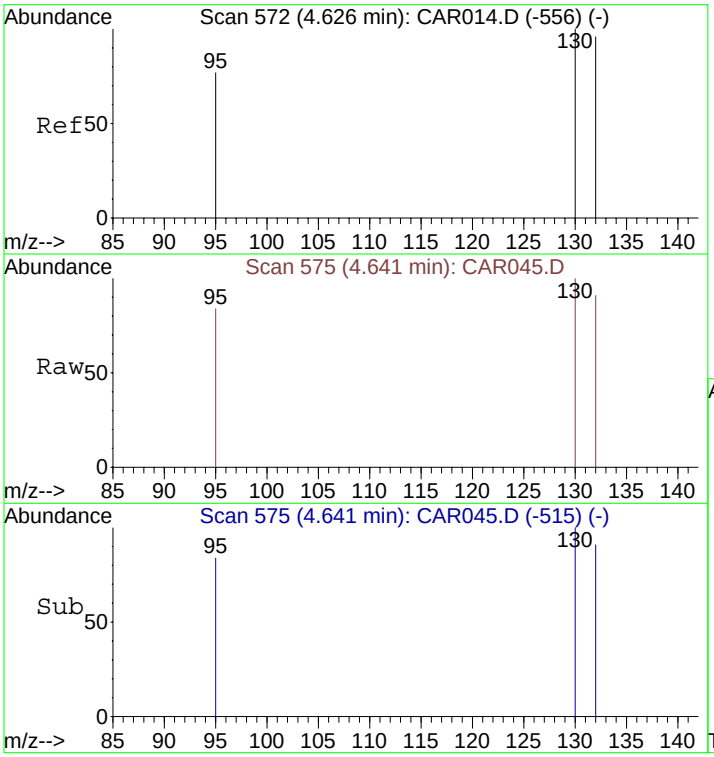


#10
Benzene
Concen: 1.62 ppbv m
RT: 4.42 min Scan# 544
Delta R.T. 0.01 min
Lab File: CAR045.D
Acq: 16 Sep 2008 15:32

Tgt Ion: 78 Resp: 599

Ion	Ratio	Lower	Upper
78	100		
77	20.7	18.6	28.0
50	17.2	16.2	24.4

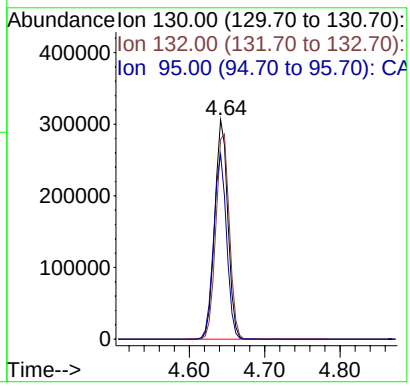


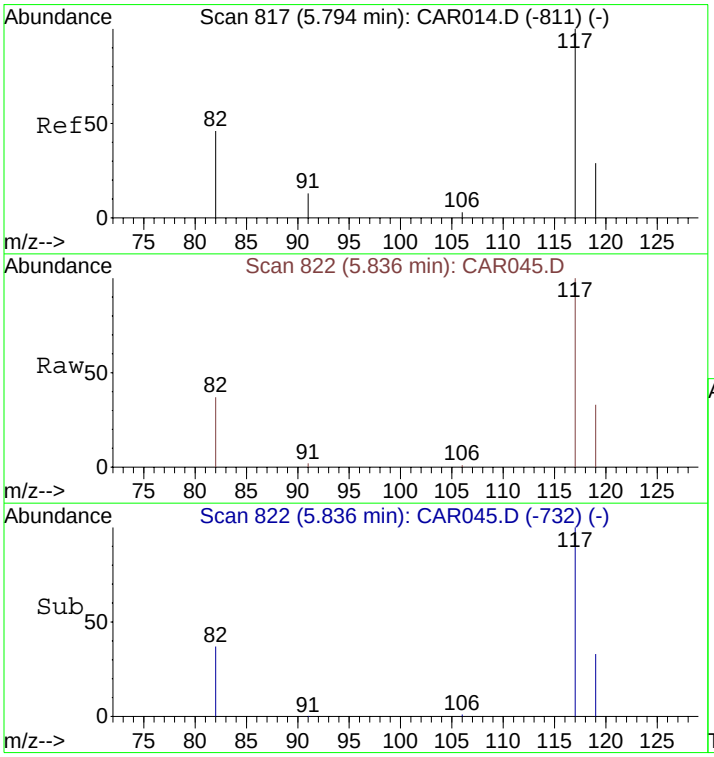


#11
Trichloroethene
Concen: 2049.87 ppbv
RT: 4.64 min Scan# 575
Delta R.T. 0.02 min
Lab File: CAR045.D
Acq: 16 Sep 2008 15:32

Tgt Ion:130 Resp: 368036

Ion	Ratio	Lower	Upper
130	100		
132	96.5	73.8	110.6
95	83.6	72.5	108.7

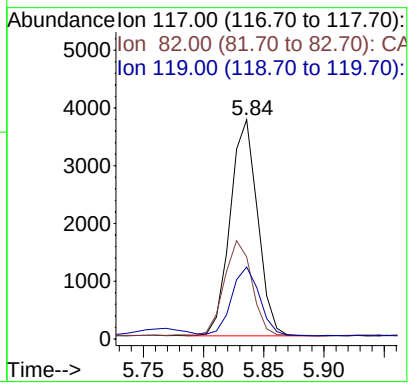


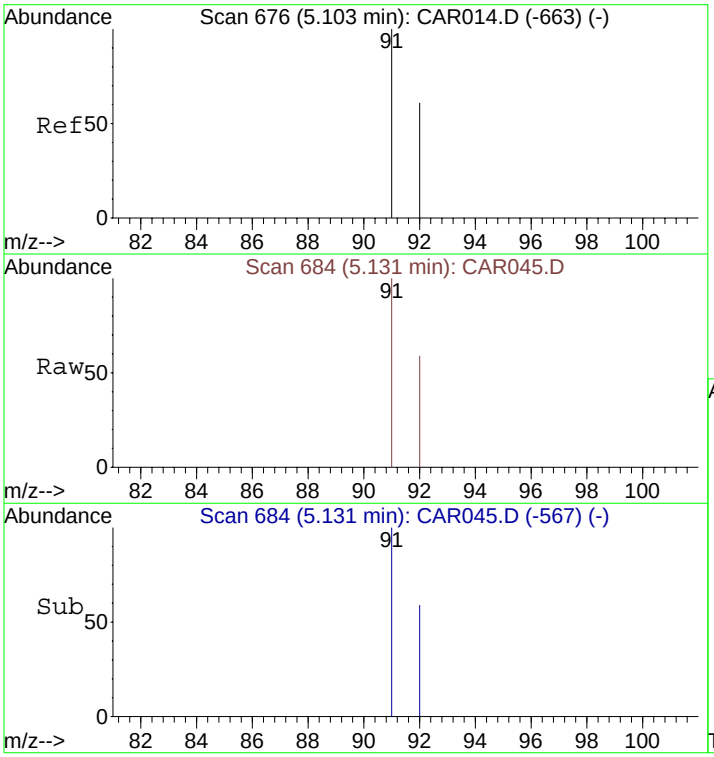


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.84 min Scan# 822
Delta R.T. 0.04 min
Lab File: CAR045.D
Acq: 16 Sep 2008 15:32

Tgt Ion:117 Resp: 5939

Ion	Ratio	Lower	Upper
117	100		
82	44.4	38.3	57.5
119	33.2	26.0	39.0

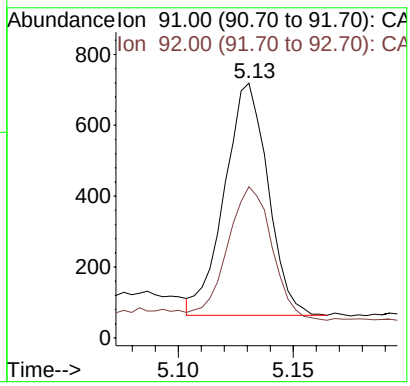


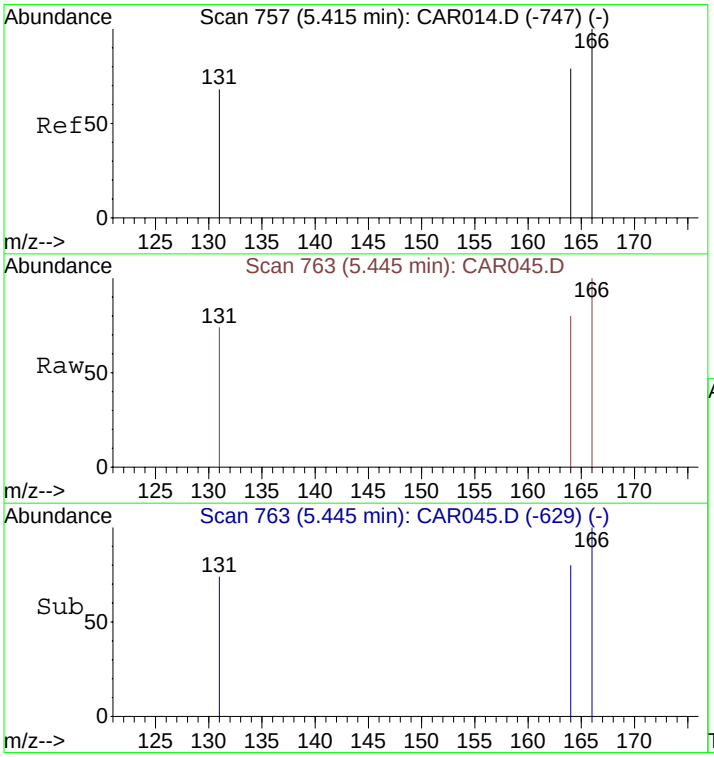


#13
Toluene
Concen: 2.39 ppbv
RT: 5.13 min Scan# 684
Delta R.T. 0.03 min
Lab File: CAR045.D
Acq: 16 Sep 2008 15:32

Tgt Ion: 91 Resp: 861

Ion	Ratio	Lower	Upper
91	100		
92	59.5	48.2	72.2

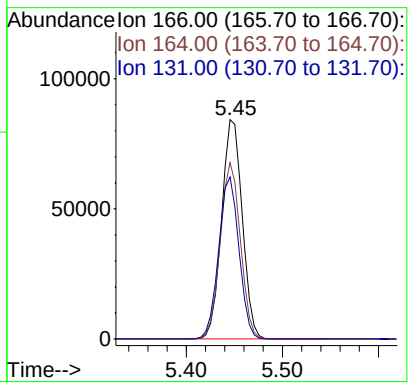


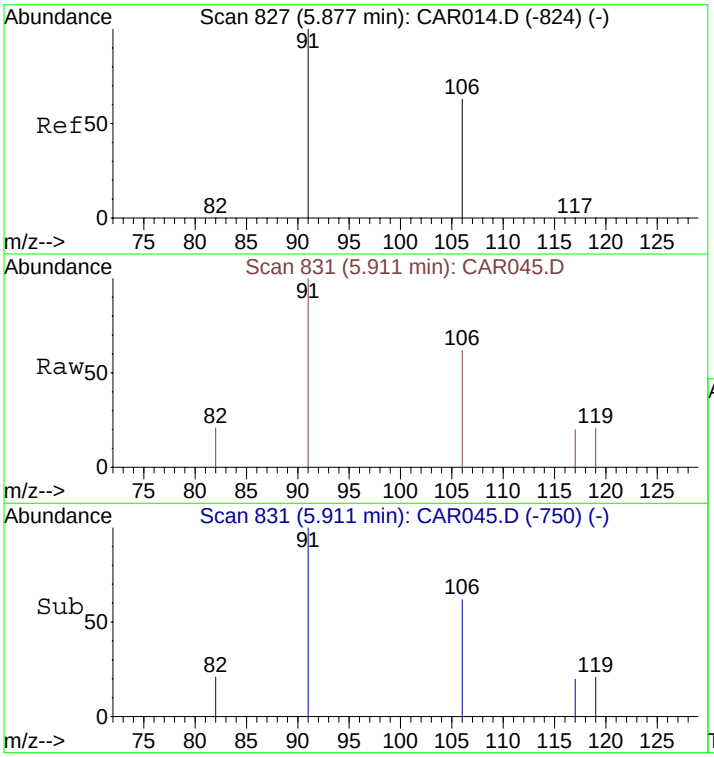


#14
Tetrachloroethene
Concen: 578.75 ppbv
RT: 5.45 min Scan# 763
Delta R.T. 0.03 min
Lab File: CAR045.D
Acq: 16 Sep 2008 15:32

Tgt Ion:166 Resp: 125550

Ion	Ratio	Lower	Upper
166	100		
164	78.5	63.1	94.7
131	72.5	62.9	94.3

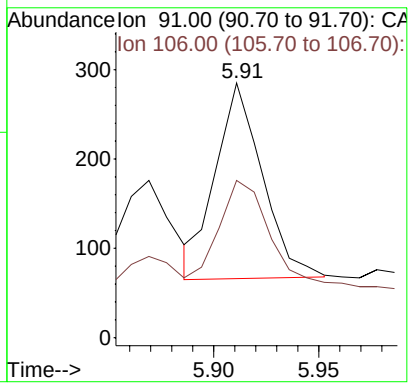


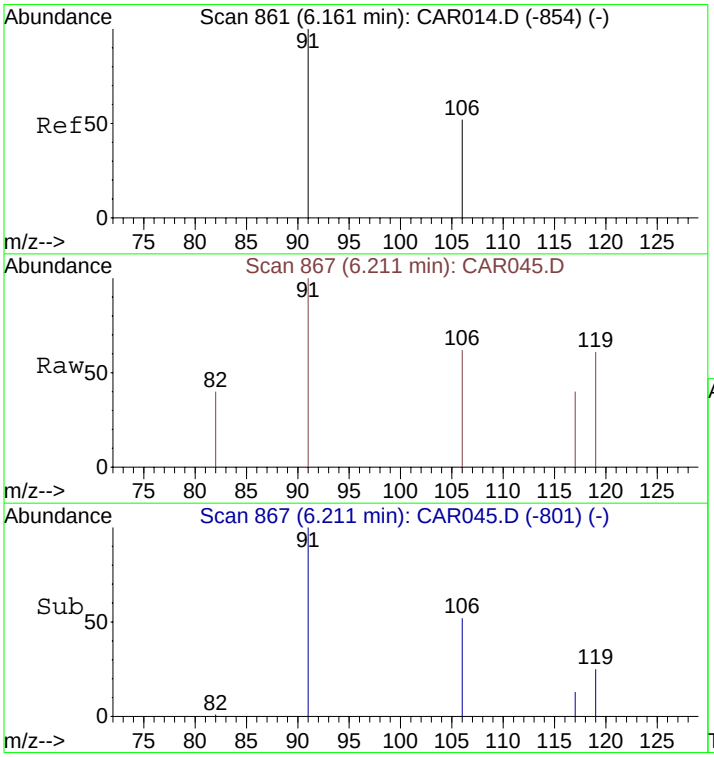


#16
m&p-Xylenes
Concen: 1.16 ppbv m
RT: 5.91 min Scan# 831
Delta R.T. 0.03 min
Lab File: CAR045.D
Acq: 16 Sep 2008 15:32

Tgt Ion: 91 Resp: 342

Ion	Ratio	Lower	Upper
91	100		
106	62.0	41.8	62.8

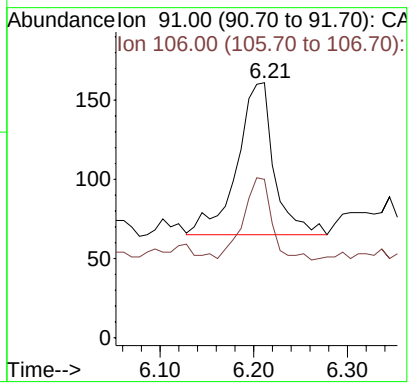




#17
o-Xylene
Concen: 0.79 ppbv
RT: 6.21 min Scan# 867
Delta R.T. 0.05 min
Lab File: CAR045.D
Acq: 16 Sep 2008 15:32

Tgt Ion: 91 Resp: 266

Ion	Ratio	Lower	Upper
91	100		
106	40.6	38.9	58.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR046.D Vial: 1
Acq On : 16 Sep 2008 15:43 Operator: dlm
Sample : 51374\D3-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 16:03:44 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1870	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	6177	10.00 ppbv	0.01
12) Chlorobenzene-d5	5.83	117	5950	10.00 ppbv	0.03

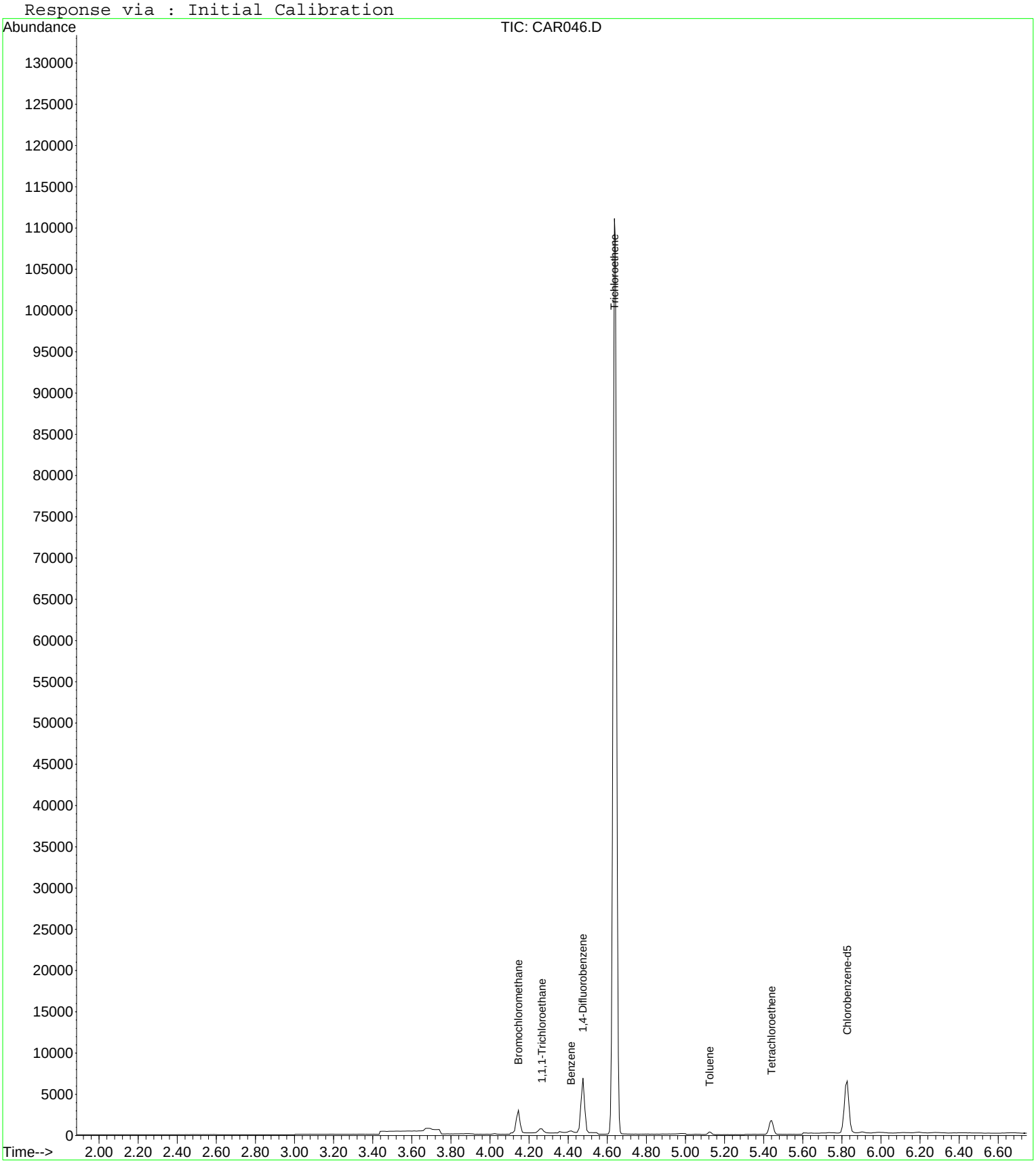
Target Compounds					Qvalue
8) 1,1,1-Trichloroethane	4.27	97	455m	1.95 ppbv	
10) Benzene	4.42	78	223m	0.59 ppbv	
11) Trichloroethene	4.64	130	49655	271.46 ppbv	94
13) Toluene	5.12	91	260	0.72 ppbv	100
14) Tetrachloroethene	5.44	166	1022	4.70 ppbv	96

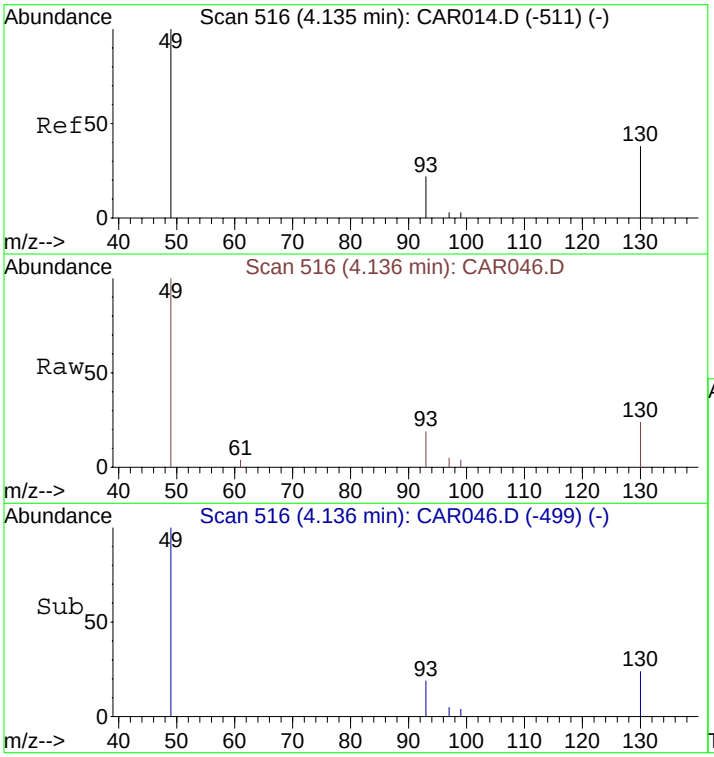
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR046.D Vial: 1
Acq On : 16 Sep 2008 15:43 Operator: dlm
Sample : 51374\D3-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:35 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Thu Oct 02 13:10:18 2008
Response via : Initial Calibration

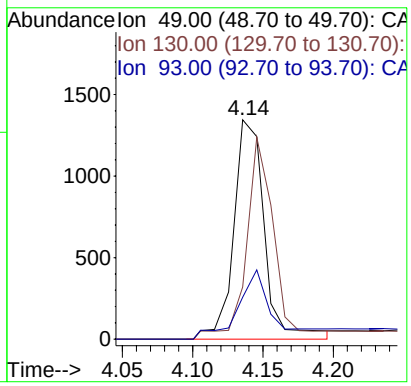


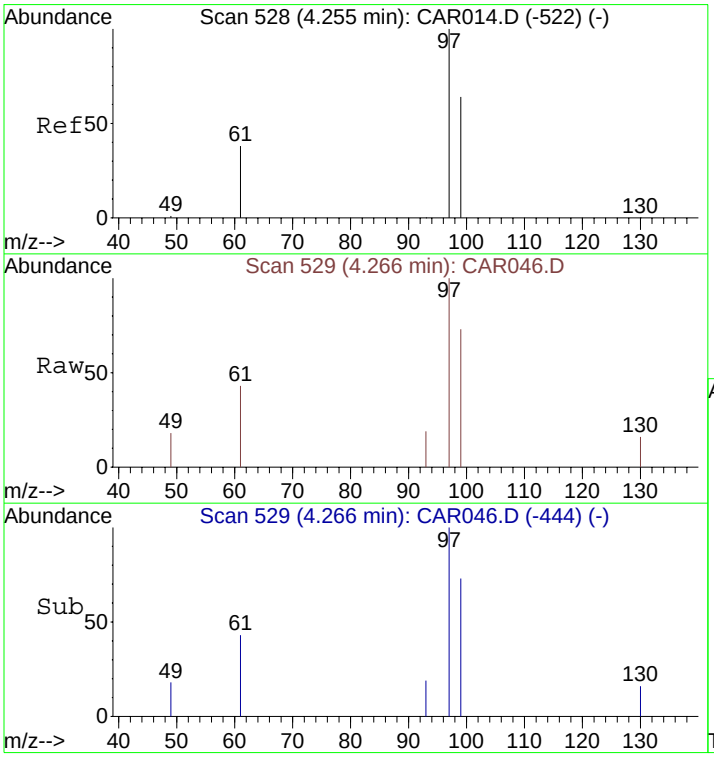


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR046.D
Acq: 16 Sep 2008 15:43

Tgt Ion: 49 Resp: 1870

Ion	Ratio	Lower	Upper
49	100		
130	80.2	65.1	97.7
93	32.5	33.8	50.6#

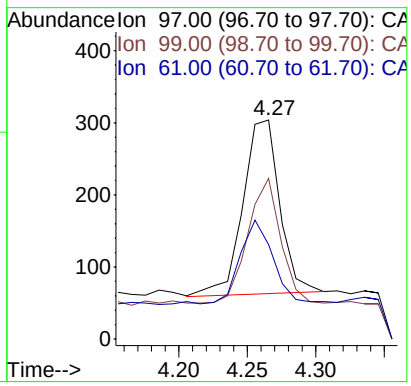


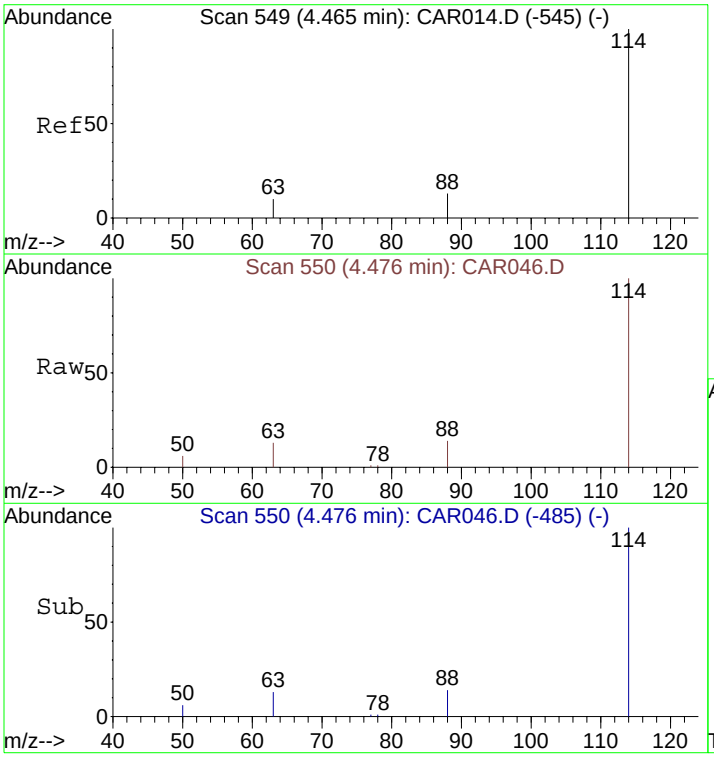


#8
1,1,1-Trichloroethane
Concen: 1.95 ppbv m
RT: 4.27 min Scan# 529
Delta R.T. 0.01 min
Lab File: CAR046.D
Acq: 16 Sep 2008 15:43

Tgt Ion: 97 Resp: 455

Ion	Ratio	Lower	Upper
97	100		
99	63.1	51.8	77.8
61	43.1	32.1	48.1

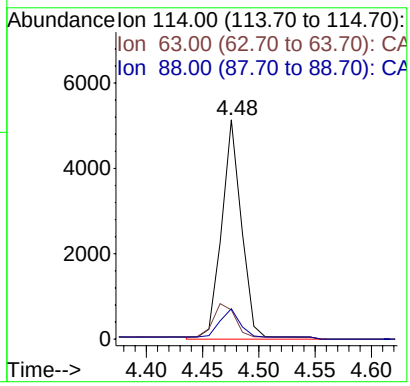


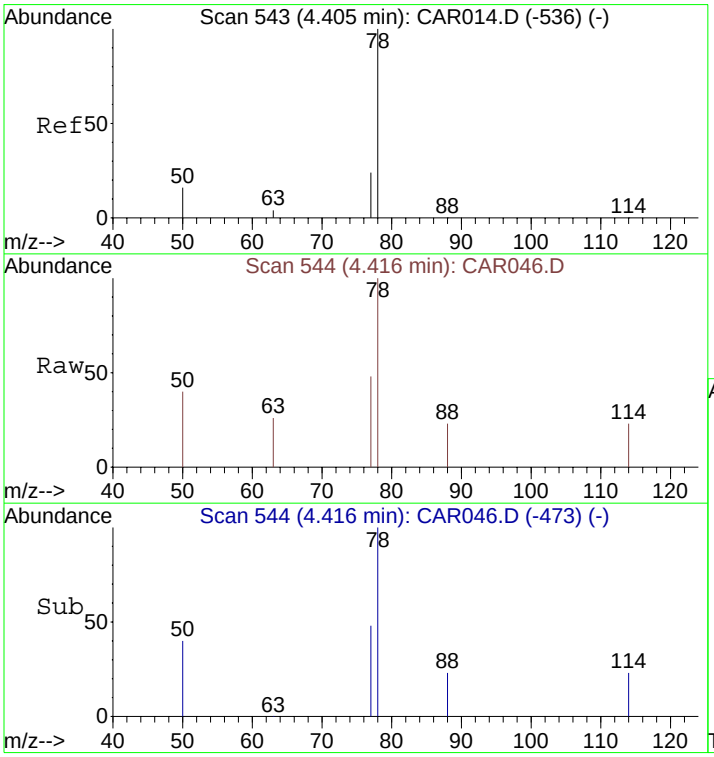


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR046.D
Acq: 16 Sep 2008 15:43

Tgt Ion:114 Resp: 6177

Ion	Ratio	Lower	Upper
114	100		
63	18.0	15.8	23.8
88	13.9	12.2	18.2

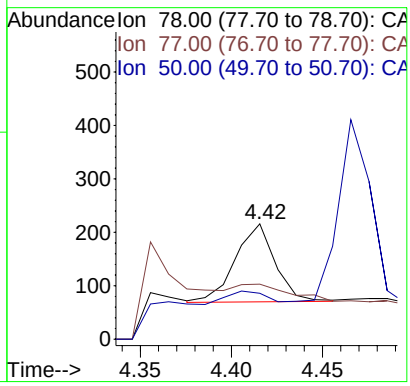


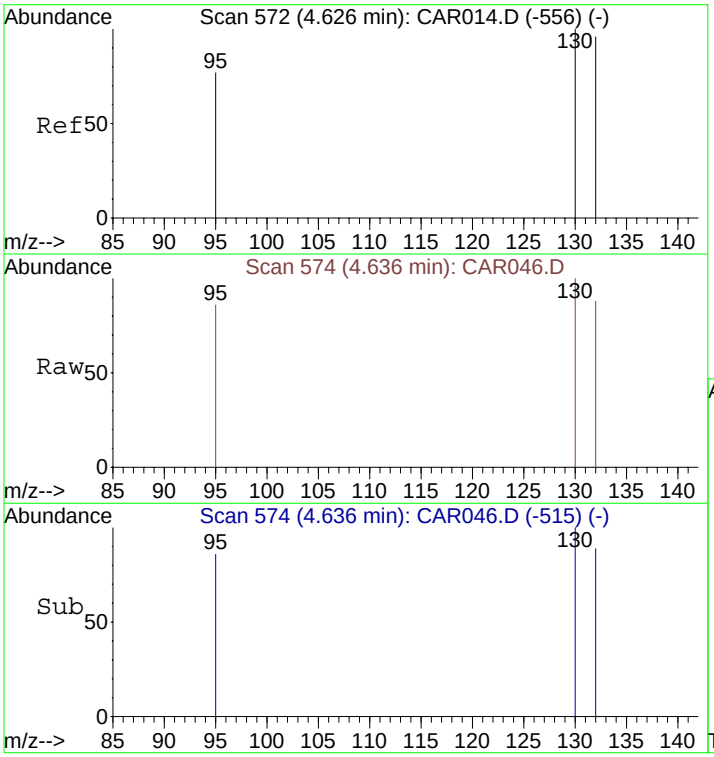


#10
Benzene
Concen: 0.59 ppbv m
RT: 4.42 min Scan# 544
Delta R.T. 0.01 min
Lab File: CAR046.D
Acq: 16 Sep 2008 15:43

Tgt Ion: 78 Resp: 223

Ion	Ratio	Lower	Upper
78	100		
77	13.9	18.6	28.0#
50	16.1	16.2	24.4#

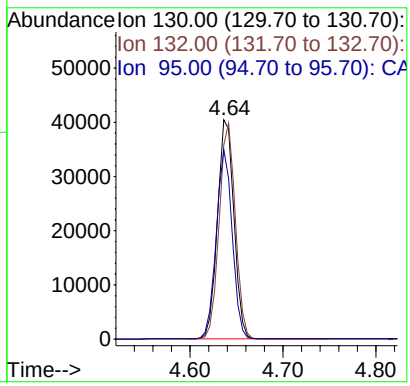


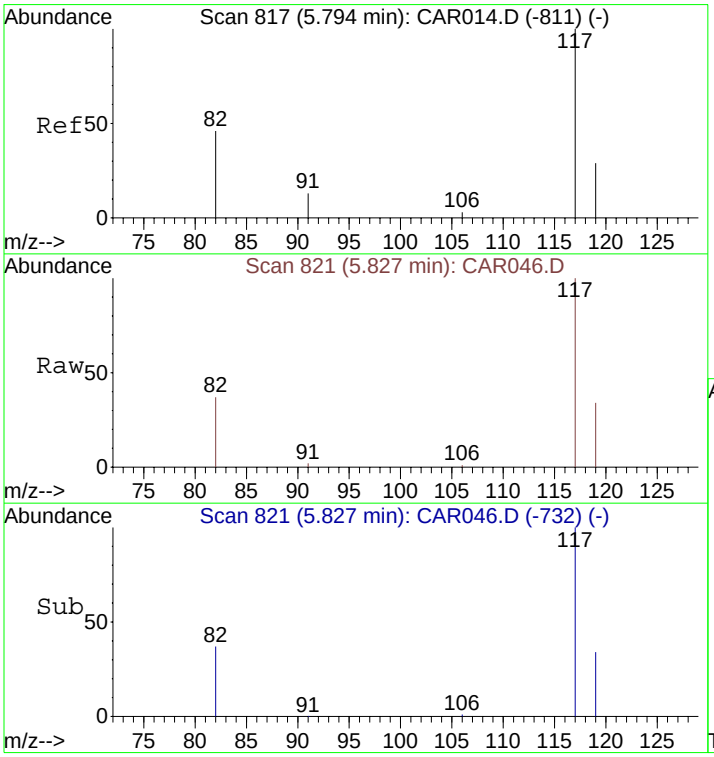


#11
Trichloroethene
Concen: 271.46 ppbv
RT: 4.64 min Scan# 574
Delta R.T. 0.01 min
Lab File: CAR046.D
Acq: 16 Sep 2008 15:43

Tgt Ion:130 Resp: 49655

Ion	Ratio	Lower	Upper
130	100		
132	96.5	73.8	110.6
95	83.8	72.5	108.7

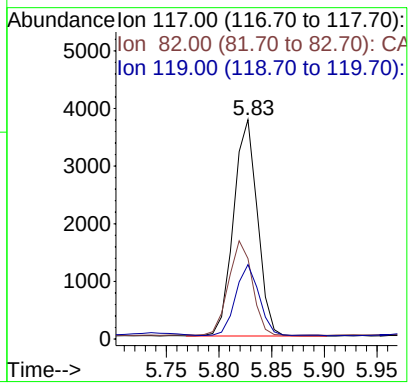


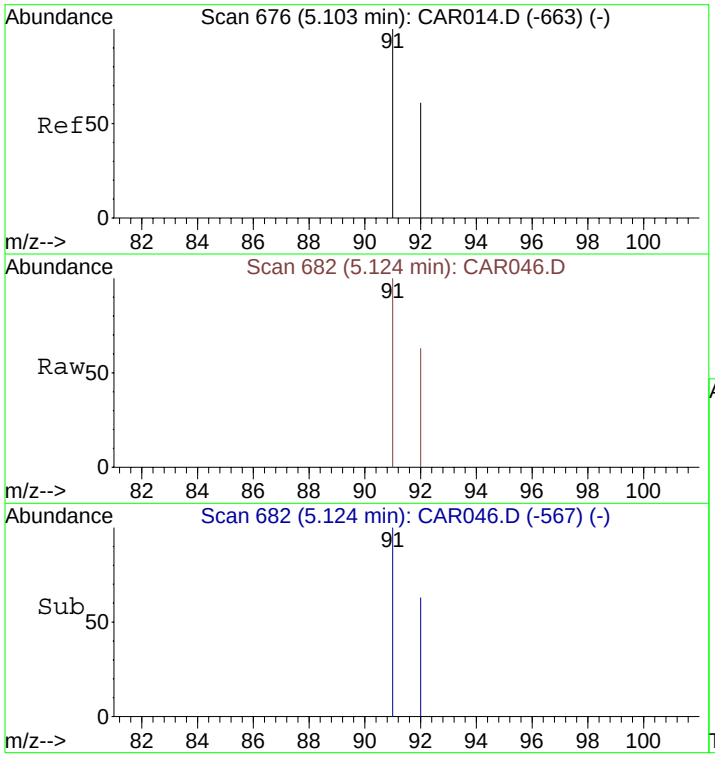


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.83 min Scan# 821
Delta R.T. 0.03 min
Lab File: CAR046.D
Acq: 16 Sep 2008 15:43

Tgt Ion:117 Resp: 5950

Ion	Ratio	Lower	Upper
117	100		
82	43.3	38.3	57.5
119	32.6	26.0	39.0

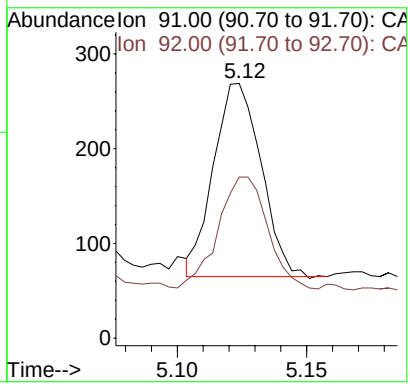


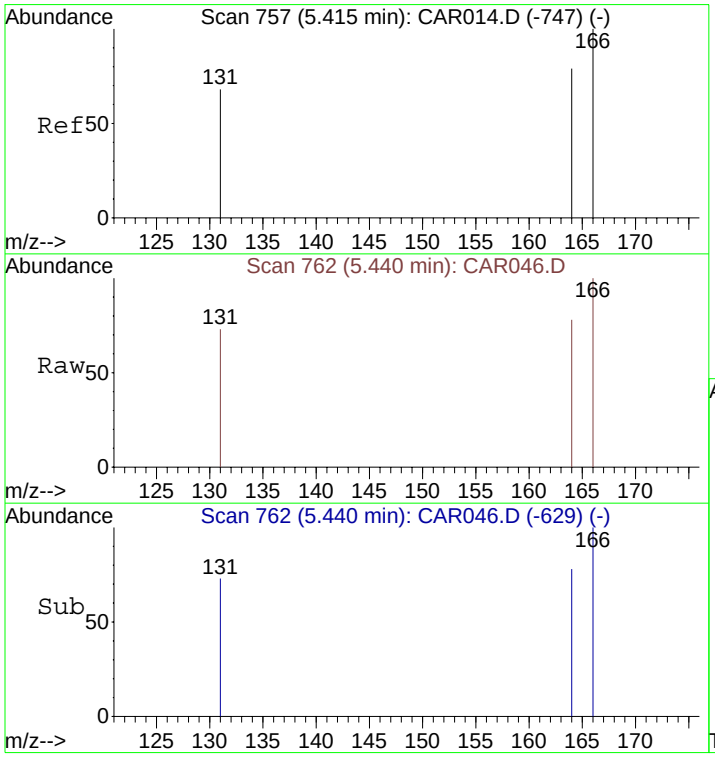


#13
Toluene
Concen: 0.72 ppbv
RT: 5.12 min Scan# 682
Delta R.T. 0.02 min
Lab File: CAR046.D
Acq: 16 Sep 2008 15:43

Tgt Ion: 91 Resp: 260

Ion	Ratio	Lower	Upper
91	100		
92	60.4	48.2	72.2

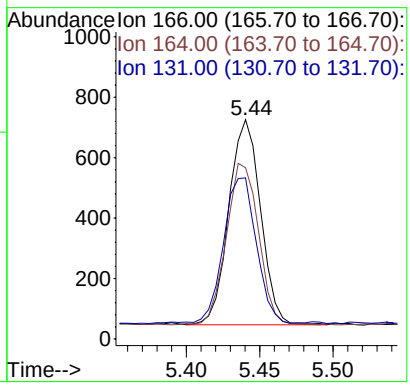




#14
Tetrachloroethene
Concen: 4.70 ppbv
RT: 5.44 min Scan# 762
Delta R.T. 0.03 min
Lab File: CAR046.D
Acq: 16 Sep 2008 15:43

Tgt Ion:166 Resp: 1022

Ion	Ratio	Lower	Upper
166	100		
164	79.6	63.1	94.7
131	72.6	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR047.D Vial: 1
Acq On : 16 Sep 2008 15:54 Operator: dlm
Sample : 51375\E4-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 16:09:08 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1681	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	5837	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.81	117	5588	10.00 ppbv	0.02

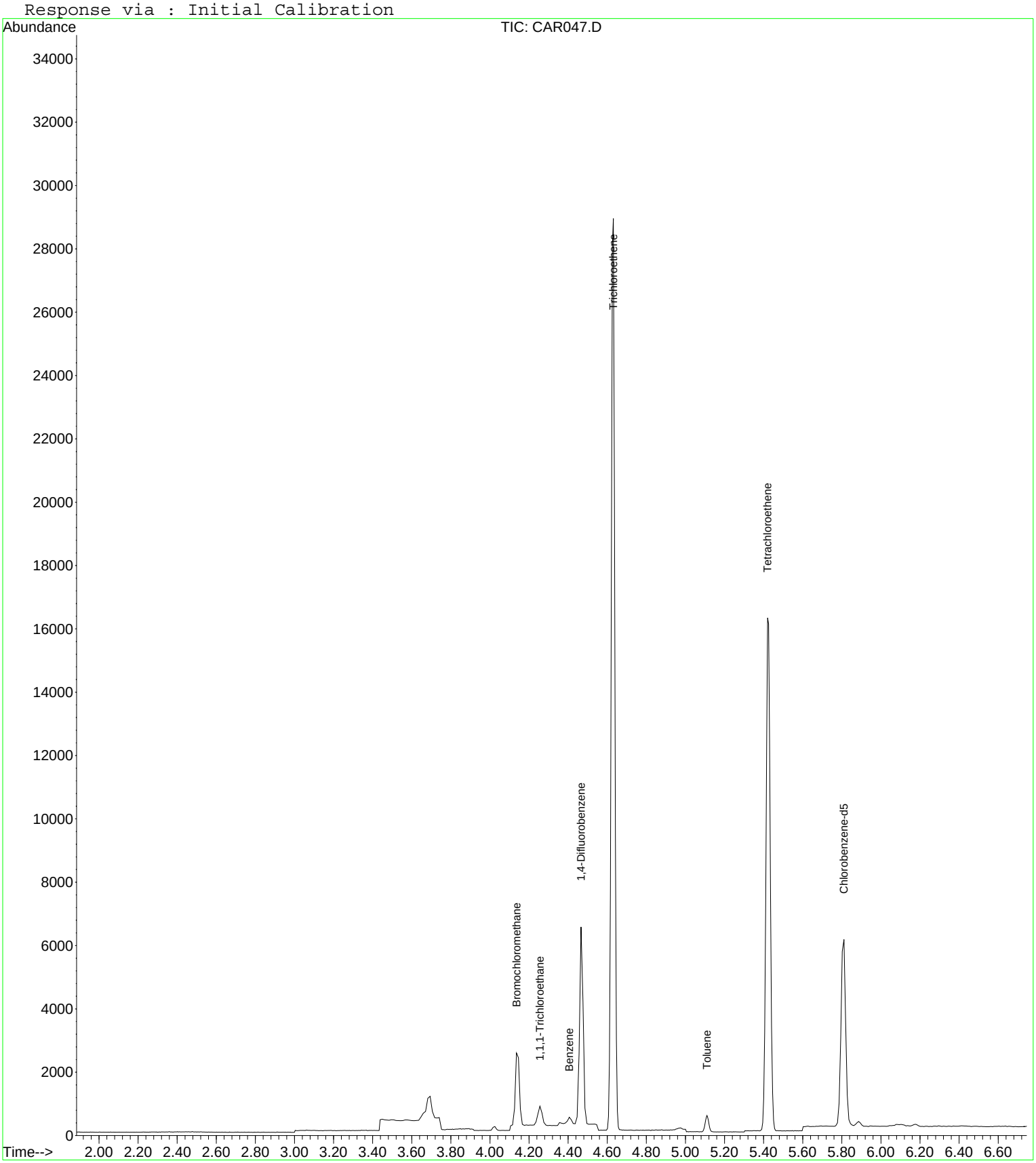
Target Compounds					Qvalue
8) 1,1,1-Trichloroethane	4.26	97	482m	2.30 ppbv	
10) Benzene	4.41	78	212m	0.60 ppbv	
11) Trichloroethene	4.63	130	12717	73.57 ppbv	89
13) Toluene	5.11	91	426	1.26 ppbv	95
14) Tetrachloroethene	5.43	166	9701	47.53 ppbv	97

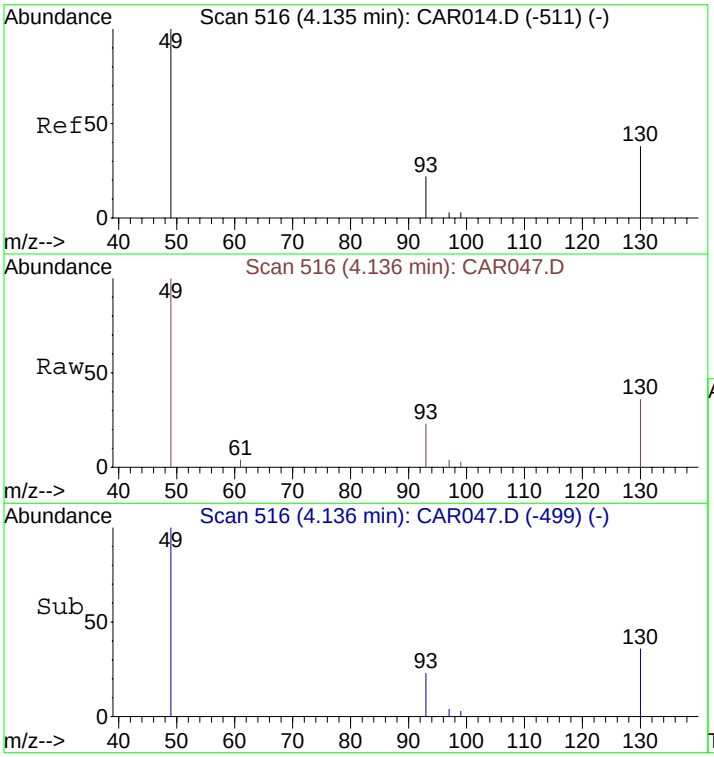
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR047.D Vial: 1
Acq On : 16 Sep 2008 15:54 Operator: dlm
Sample : 51375\E4-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:37 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Thu Oct 02 13:10:18 2008
Response via : Initial Calibration

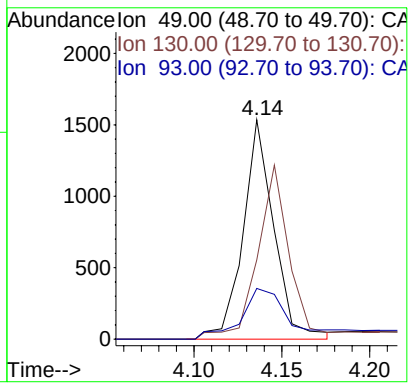


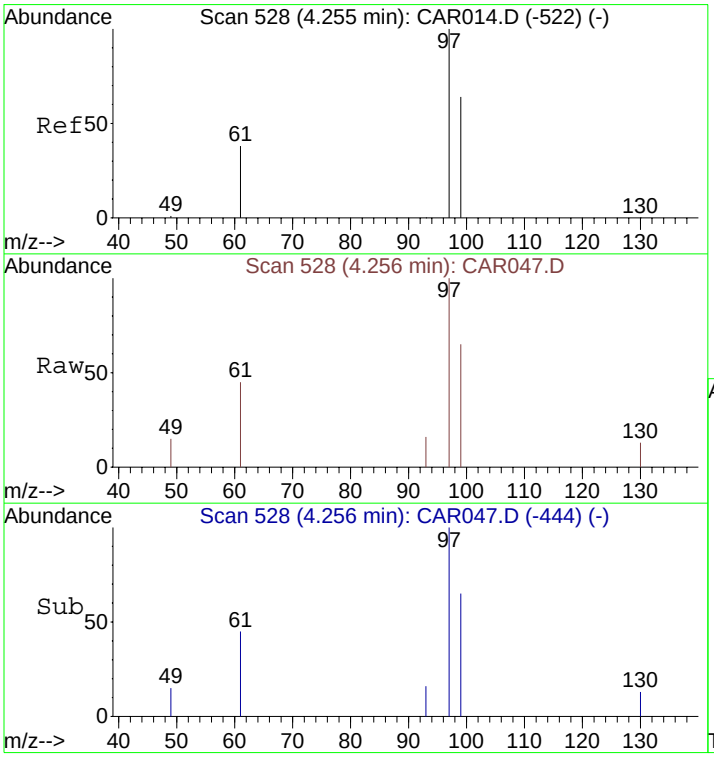


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR047.D
Acq: 16 Sep 2008 15:54

Tgt Ion: 49 Resp: 1681

Ion	Ratio	Lower	Upper
49	100		
130	85.8	65.1	97.7
93	40.0	33.8	50.6

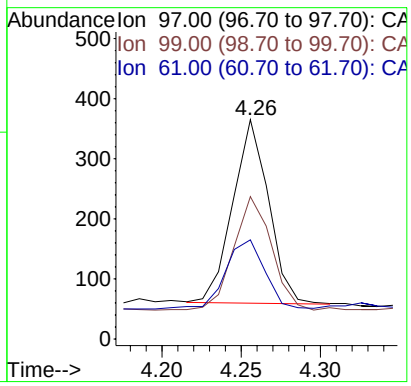


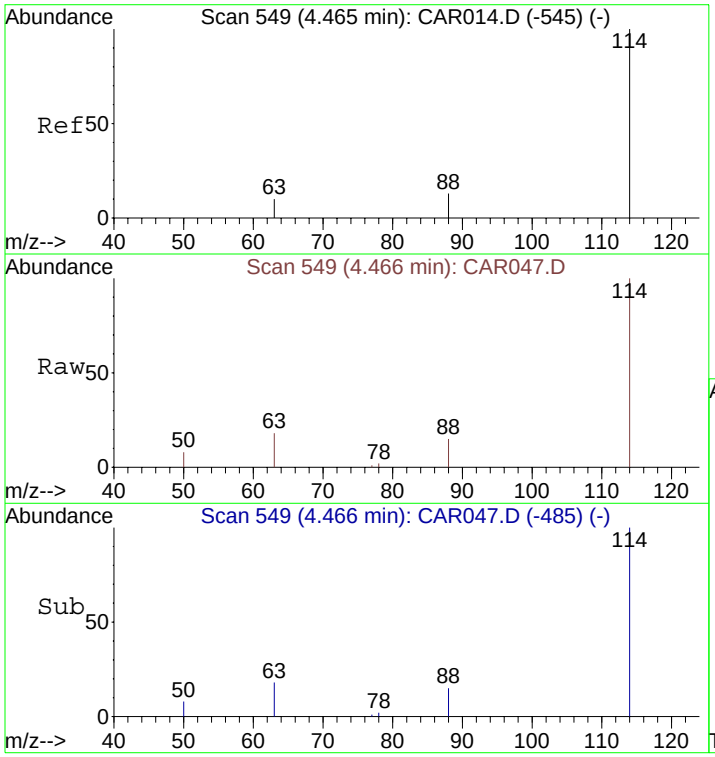


#8
1,1,1-Trichloroethane
Concen: 2.30 ppbv m
RT: 4.26 min Scan# 528
Delta R.T. 0.00 min
Lab File: CAR047.D
Acq: 16 Sep 2008 15:54

Tgt Ion: 97 Resp: 482

Ion	Ratio	Lower	Upper
97	100		
99	65.6	51.8	77.8
61	39.6	32.1	48.1

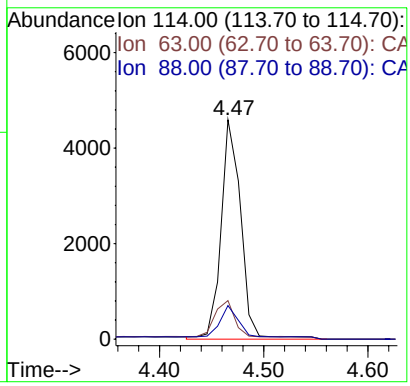


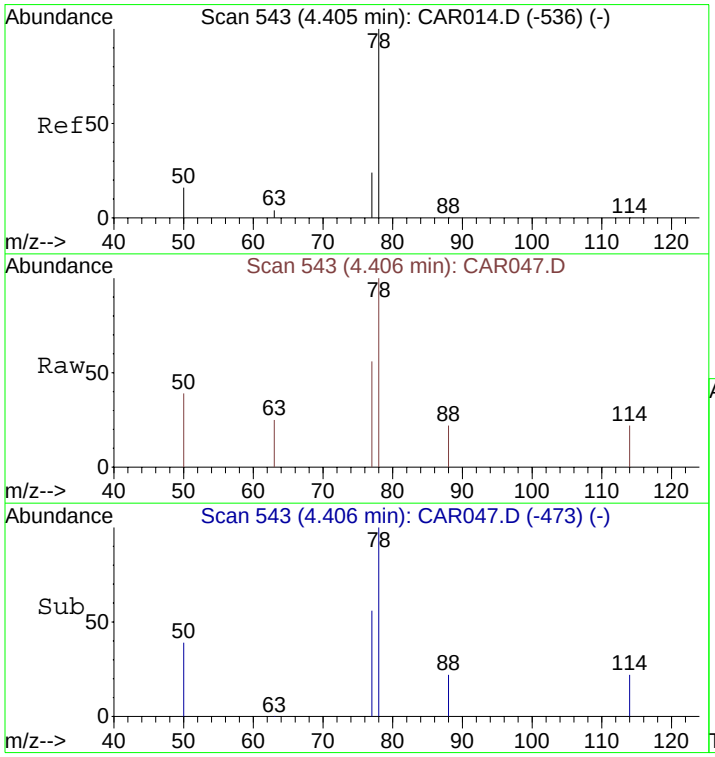


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. 0.00 min
Lab File: CAR047.D
Acq: 16 Sep 2008 15:54

Tgt Ion:114 Resp: 5837

Ion	Ratio	Lower	Upper
114	100		
63	17.9	15.8	23.8
88	17.9	12.2	18.2

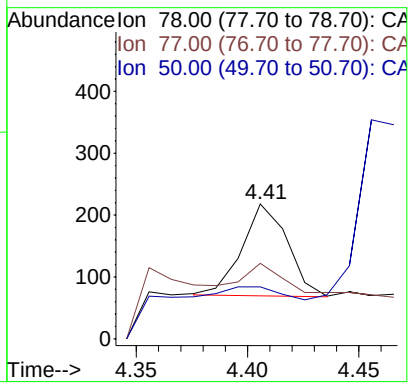


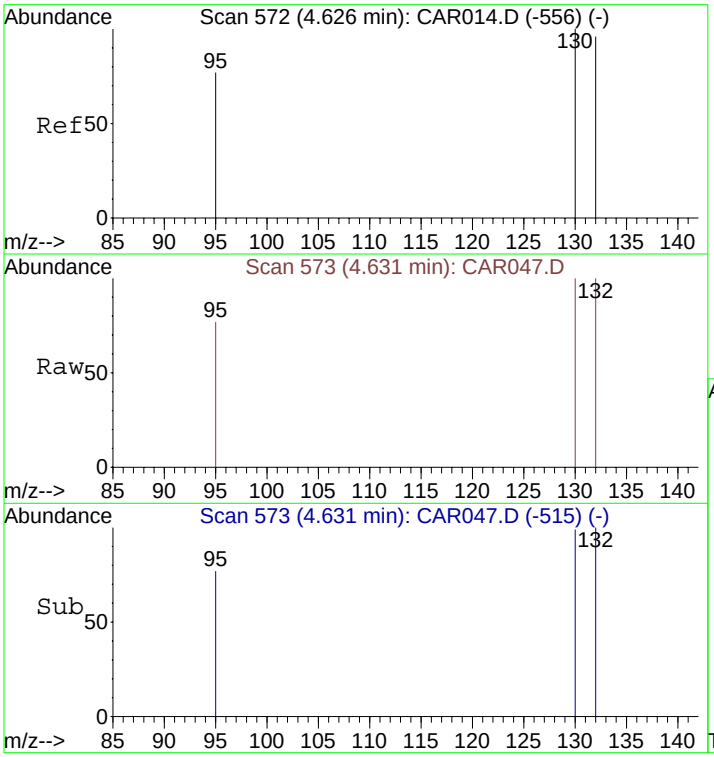


#10
Benzene
Concen: 0.60 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR047.D
Acq: 16 Sep 2008 15:54

Tgt Ion: 78 Resp: 212

Ion	Ratio	Lower	Upper
78	100		
77	18.9	18.6	28.0
50	14.6	16.2	24.4#

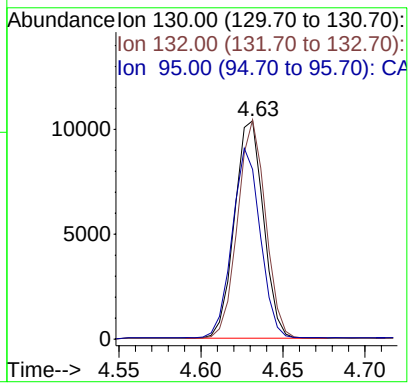


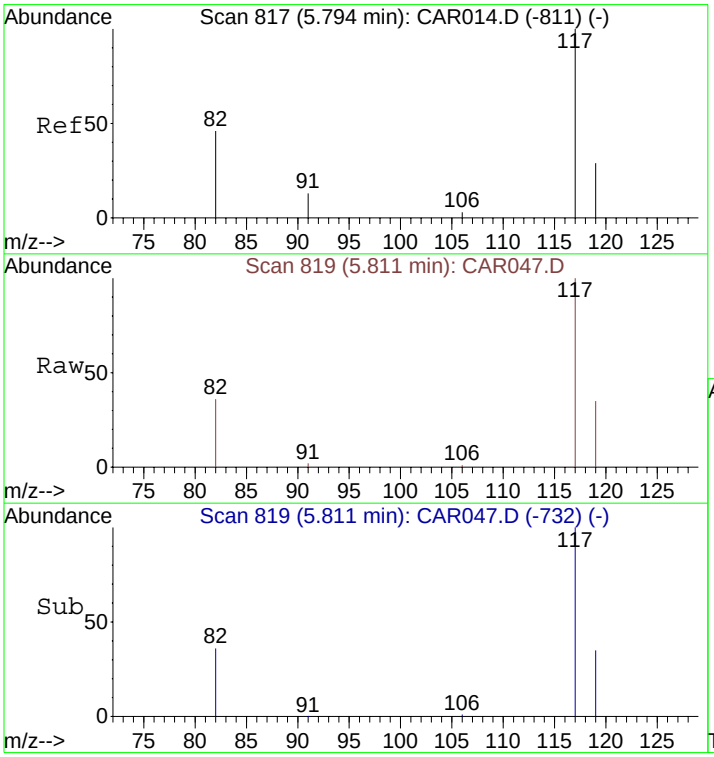


#11
Trichloroethene
Concen: 73.57 ppbv
RT: 4.63 min Scan# 573
Delta R.T. 0.01 min
Lab File: CAR047.D
Acq: 16 Sep 2008 15:54

Tgt Ion:130 Resp: 12717

Ion	Ratio	Lower	Upper
130	100		
132	106.8	73.8	110.6
95	84.3	72.5	108.7

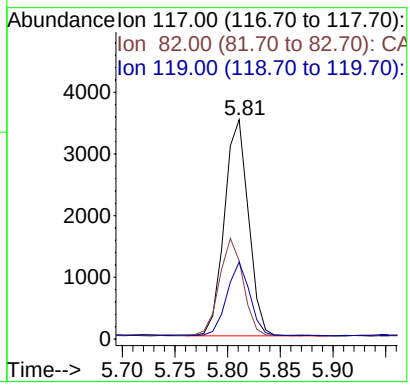


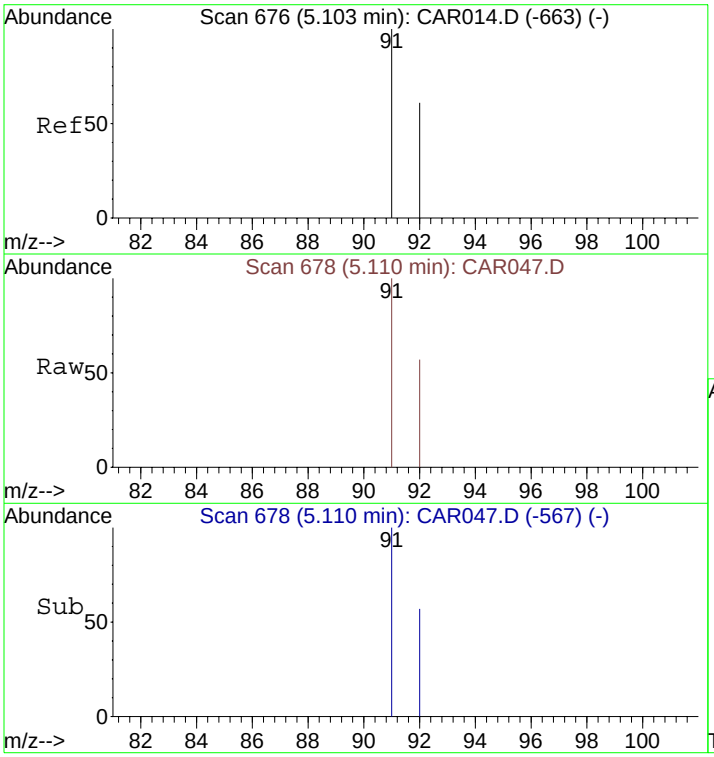


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.81 min Scan# 819
Delta R.T. 0.02 min
Lab File: CAR047.D
Acq: 16 Sep 2008 15:54

Tgt Ion:117 Resp: 5588

Ion	Ratio	Lower	Upper
117	100		
82	44.0	38.3	57.5
119	32.3	26.0	39.0

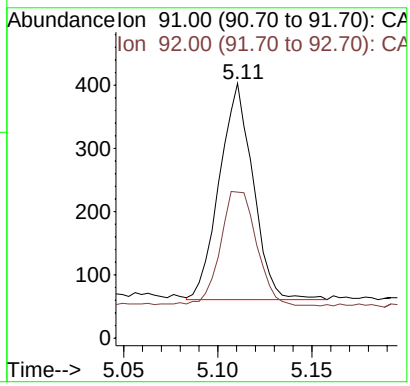


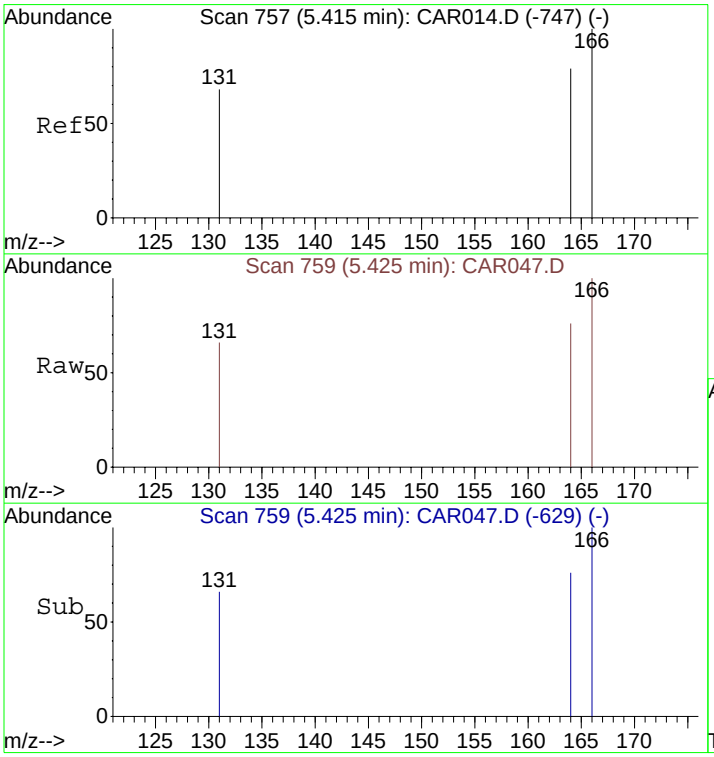


#13
Toluene
Concen: 1.26 ppbv
RT: 5.11 min Scan# 678
Delta R.T. 0.01 min
Lab File: CAR047.D
Acq: 16 Sep 2008 15:54

Tgt Ion: 91 Resp: 426

Ion	Ratio	Lower	Upper
91	100		
92	56.3	48.2	72.2

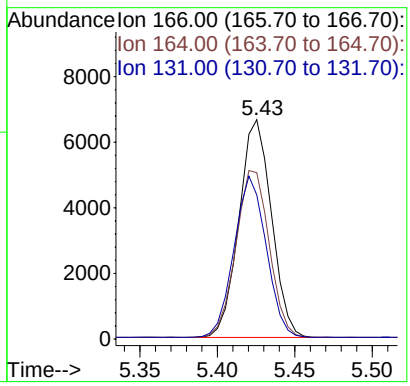




#14
Tetrachloroethene
Concen: 47.53 ppbv
RT: 5.43 min Scan# 759
Delta R.T. 0.01 min
Lab File: CAR047.D
Acq: 16 Sep 2008 15:54

Tgt Ion:166 Resp: 9701

Ion	Ratio	Lower	Upper
166	100		
164	78.6	63.1	94.7
131	73.1	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR048.D Vial: 1
Acq On : 16 Sep 2008 16:05 Operator: dlm
Sample : 51376\D5-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 16:14:52 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.15	49	1827	10.00 ppbv	0.01
9) 1,4-Difluorobenzene	4.49	114	5975	10.00 ppbv	0.02
12) Chlorobenzene-d5	5.86	117	5803	10.00 ppbv	0.07

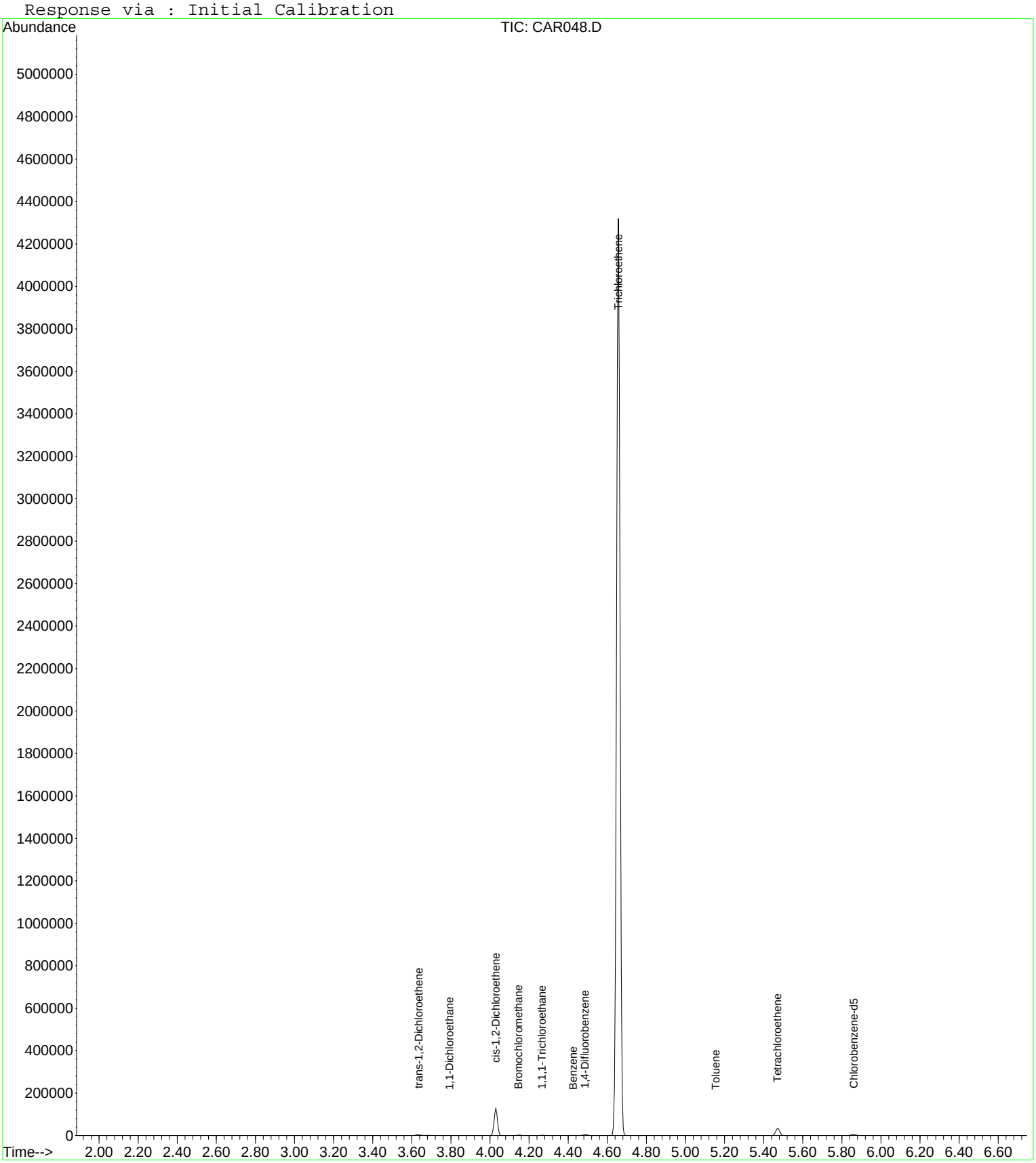
Target Compounds					Qvalue
5) trans-1,2-Dichloroethene	3.64	61	3442	22.42 ppbv	99
6) 1,1-Dichloroethane	3.79	63	451m	2.24 ppbv	
7) cis-1,2-Dichloroethene	4.03	61	77821	507.02 ppbv	98
8) 1,1,1-Trichloroethane	4.27	97	992m	4.35 ppbv	
10) Benzene	4.43	78	465m	1.28 ppbv	
11) Trichloroethene	4.66	130	1940669	10968.25 ppbv	94
13) Toluene	5.15	91	353	1.00 ppbv	98
14) Tetrachloroethene	5.48	166	19897	93.87 ppbv	97

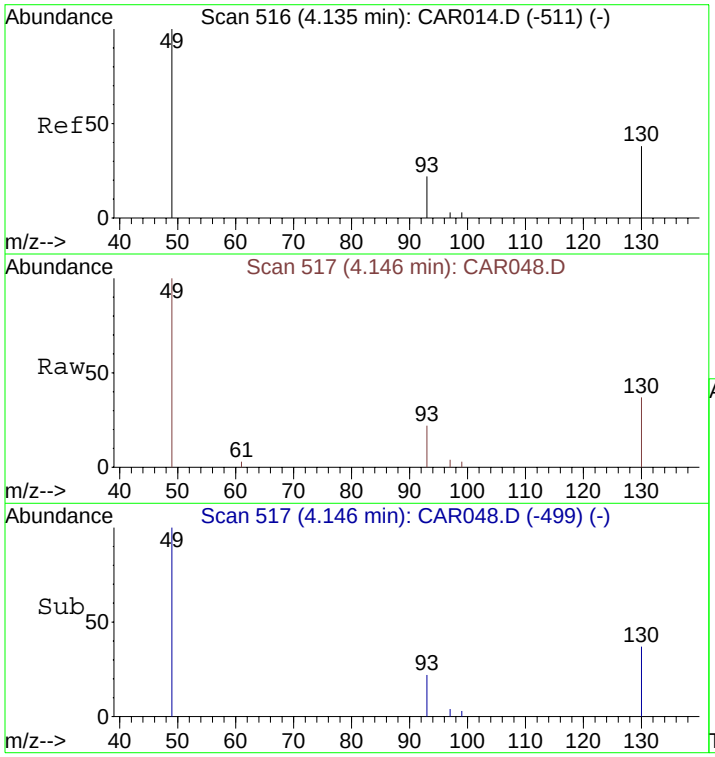
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR048.D Vial: 1
Acq On : 16 Sep 2008 16:05 Operator: dlm
Sample : 51376\D5-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 29 14:28 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 10:37:21 2008
Response via : Initial Calibration

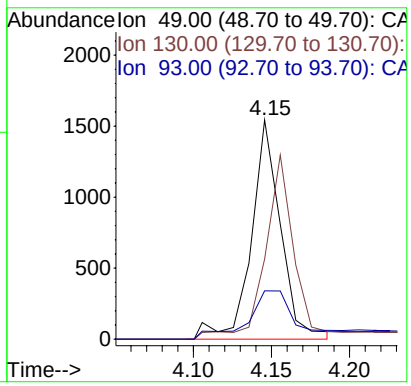


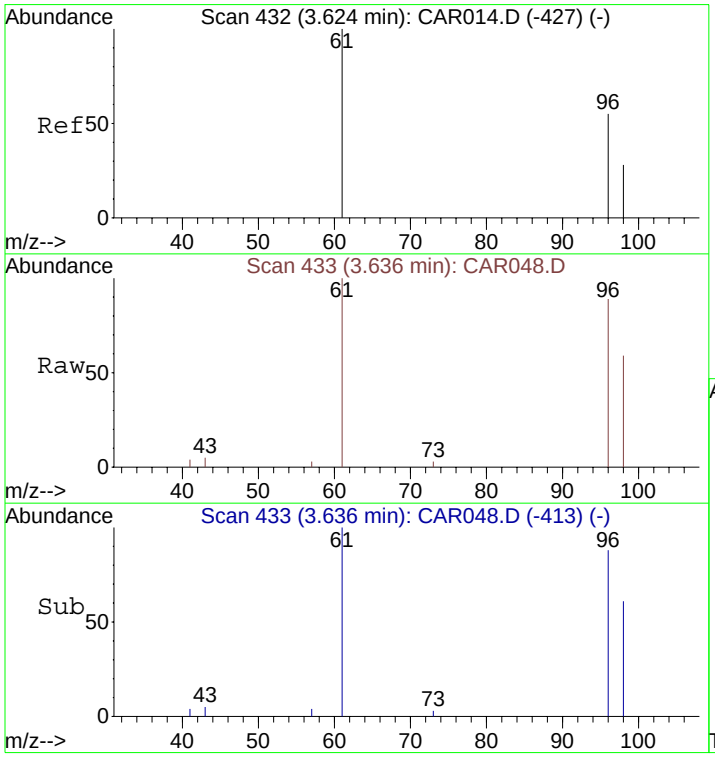


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.15 min Scan# 517
Delta R.T. 0.01 min
Lab File: CAR048.D
Acq: 16 Sep 2008 16:05

Tgt Ion: 49 Resp: 1827

Ion	Ratio	Lower	Upper
49	100		
130	83.9	65.1	97.7
93	37.4	33.8	50.6

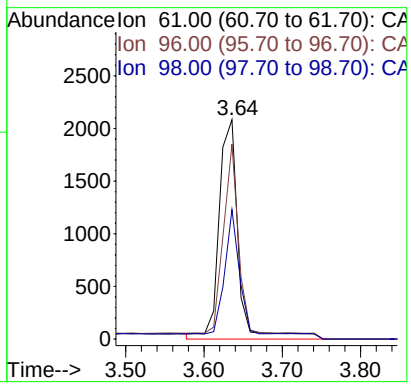


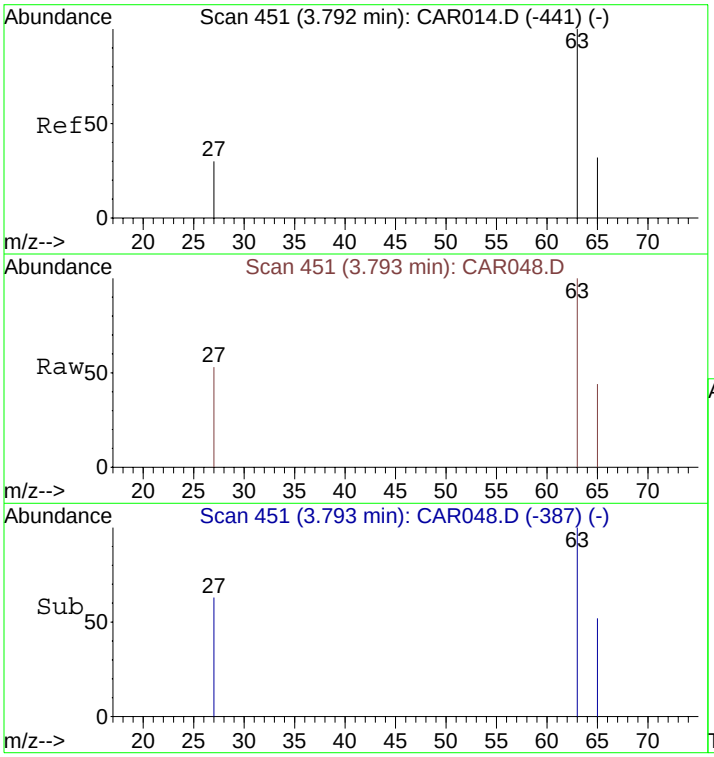


#5
trans-1,2-Dichloroethene
Concen: 22.42 ppbv
RT: 3.64 min Scan# 433
Delta R.T. 0.01 min
Lab File: CAR048.D
Acq: 16 Sep 2008 16:05

Tgt Ion: 61 Resp: 3442

Ion	Ratio	Lower	Upper
61	100		
96	67.8	55.0	82.4
98	43.5	35.6	53.4

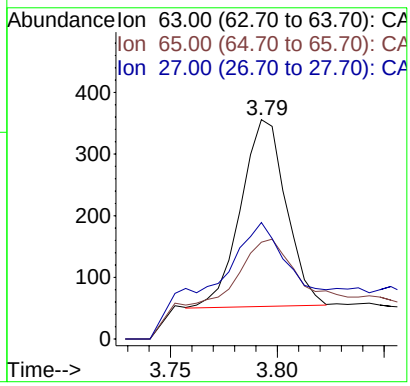


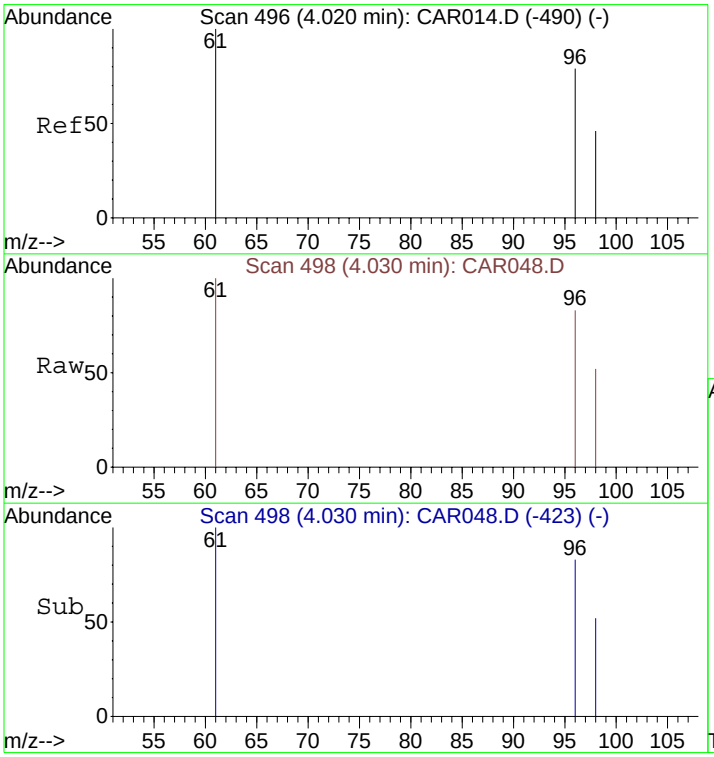


#6
1,1-Dichloroethane
Concen: 2.24 ppbv m
RT: 3.79 min Scan# 451
Delta R.T. 0.00 min
Lab File: CAR048.D
Acq: 16 Sep 2008 16:05

Tgt Ion: 63 Resp: 451

Ion	Ratio	Lower	Upper
63	100		
65	26.8	23.5	35.3
27	30.6	26.7	40.1

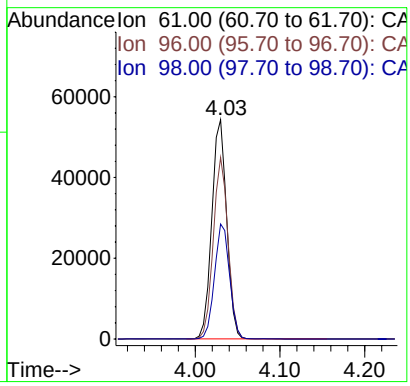


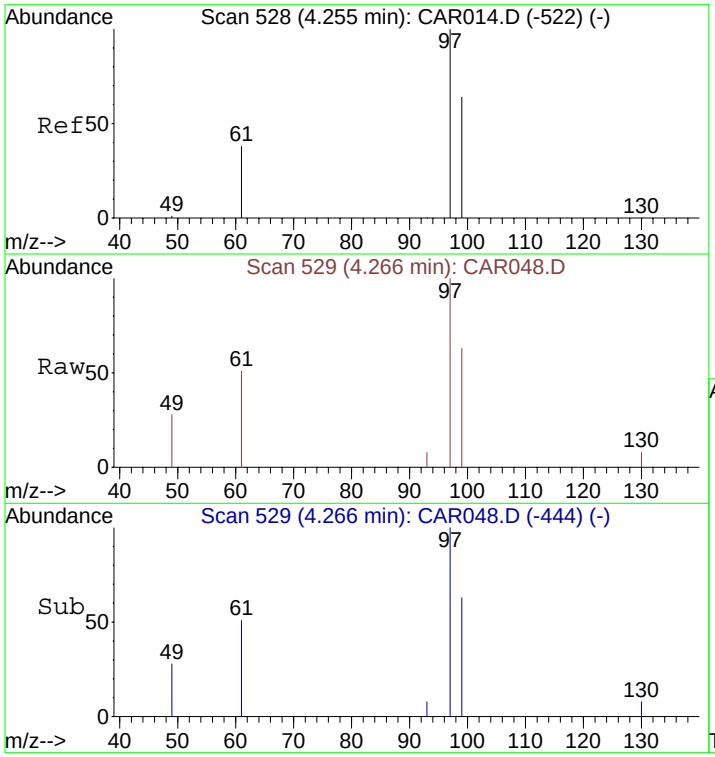


#7
cis-1,2-Dichloroethene
Concen: 507.02 ppbv
RT: 4.03 min Scan# 498
Delta R.T. 0.01 min
Lab File: CAR048.D
Acq: 16 Sep 2008 16:05

Tgt Ion: 61 Resp: 77821

Ion	Ratio	Lower	Upper
61	100		
96	72.9	56.0	84.0
98	45.0	36.2	54.4

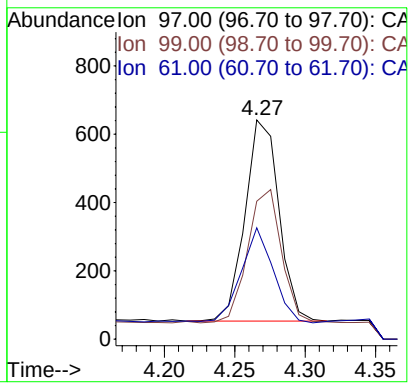


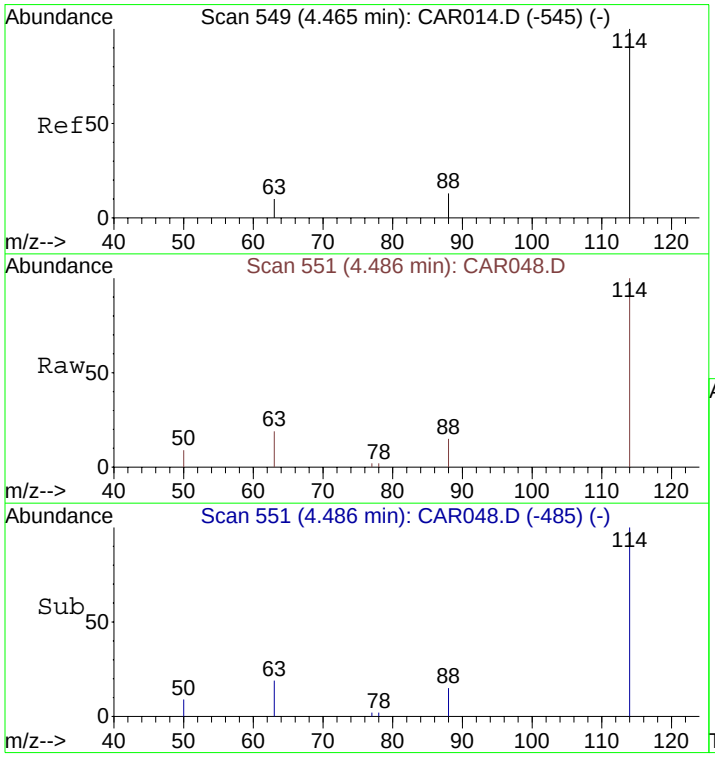


#8
1,1,1-Trichloroethane
Concen: 4.35 ppbv m
RT: 4.27 min Scan# 529
Delta R.T. 0.01 min
Lab File: CAR048.D
Acq: 16 Sep 2008 16:05

Tgt Ion: 97 Resp: 992

Ion	Ratio	Lower	Upper
97	100		
99	65.5	51.8	77.8
61	29.3	32.1	48.1#

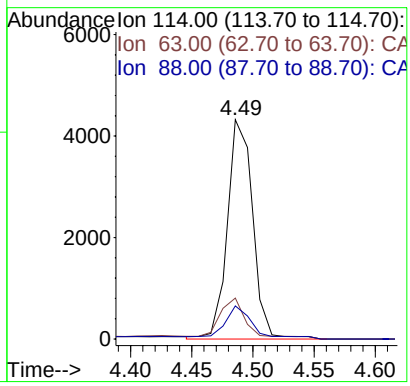


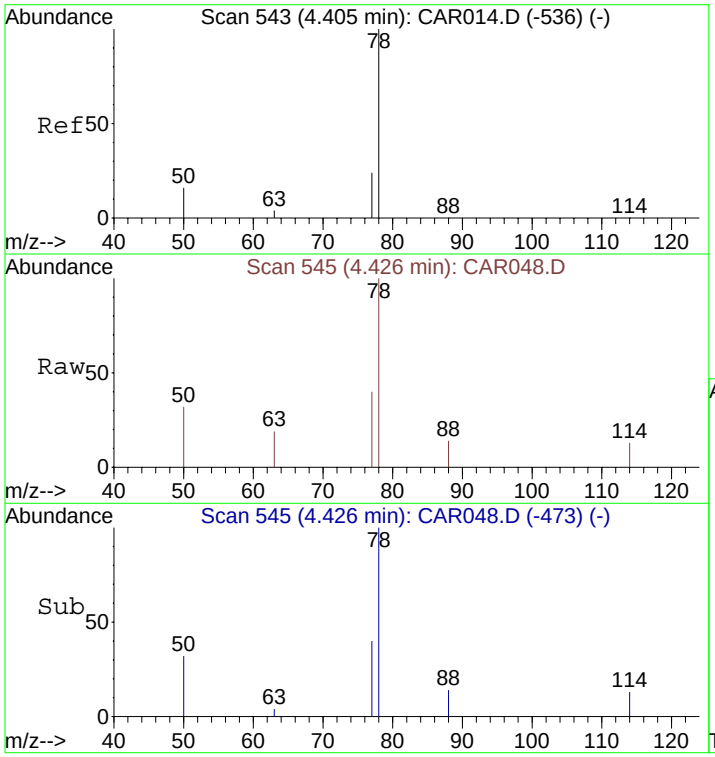


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.49 min Scan# 551
Delta R.T. 0.02 min
Lab File: CAR048.D
Acq: 16 Sep 2008 16:05

Tgt Ion:114 Resp: 5975

Ion	Ratio	Lower	Upper
114	100		
63	20.8	15.8	23.8
88	17.1	12.2	18.2

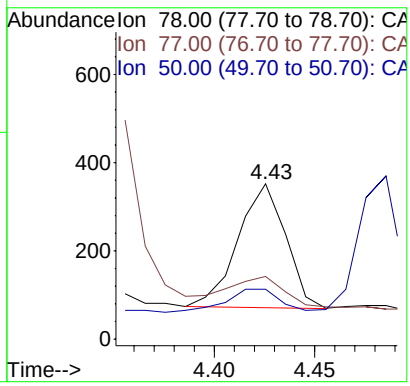


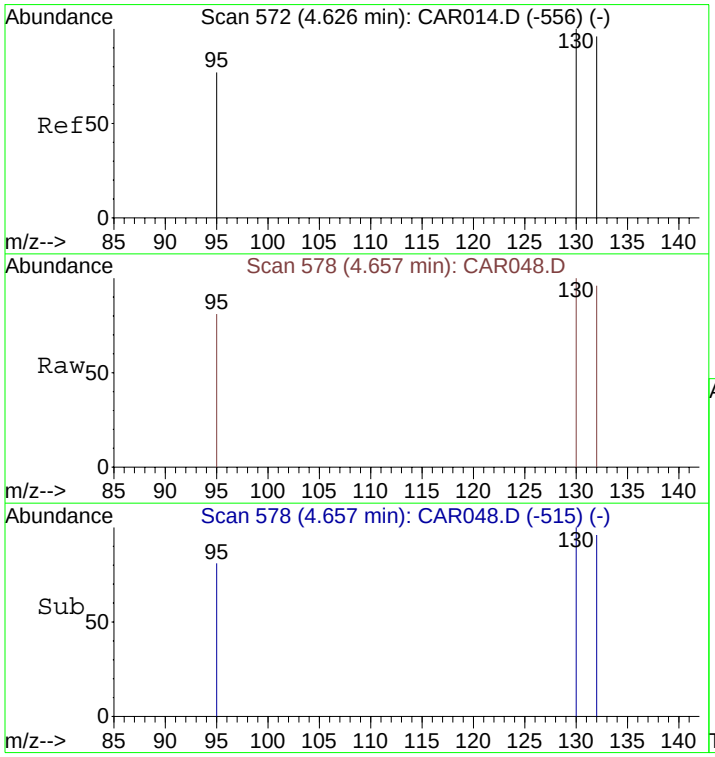


#10
Benzene
Concen: 1.28 ppbv m
RT: 4.43 min Scan# 545
Delta R.T. 0.02 min
Lab File: CAR048.D
Acq: 16 Sep 2008 16:05

Tgt Ion: 78 Resp: 465

Ion	Ratio	Lower	Upper
78	100		
77	17.4	18.6	28.0#
50	13.8	16.2	24.4#

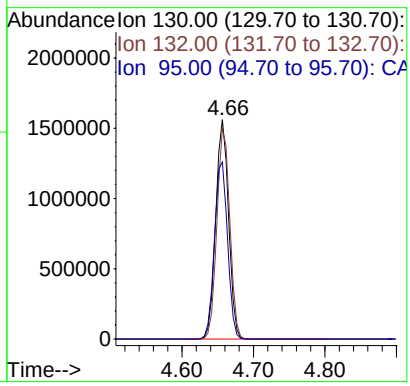


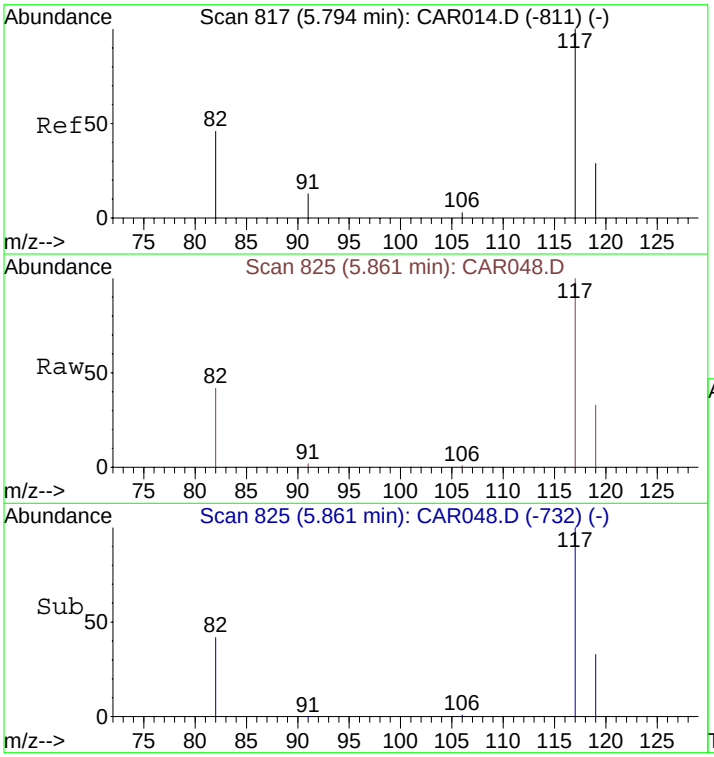


#11
Trichloroethene
Concen: 10968.25 ppbv
RT: 4.66 min Scan# 578
Delta R.T. 0.03 min
Lab File: CAR048.D
Acq: 16 Sep 2008 16:05

Tgt Ion:130 Resp: 1940669

Ion	Ratio	Lower	Upper
130	100		
132	96.7	73.8	110.6
95	83.0	72.5	108.7

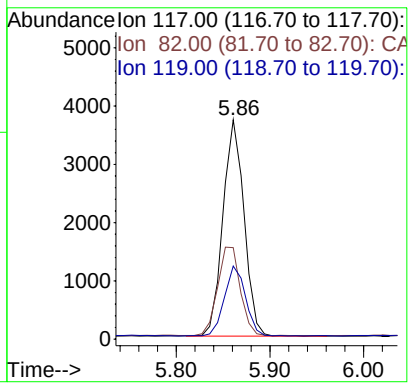


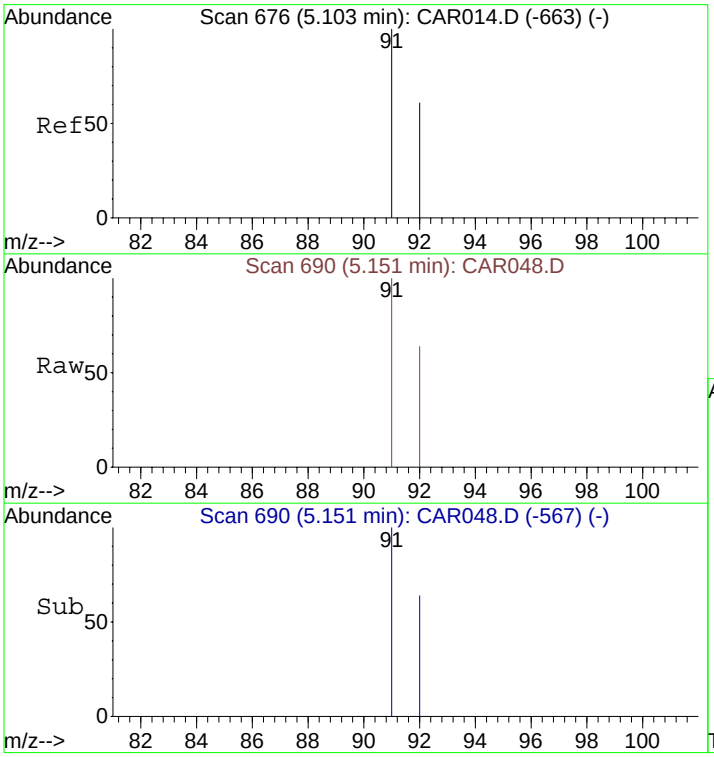


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.86 min Scan# 825
Delta R.T. 0.07 min
Lab File: CAR048.D
Acq: 16 Sep 2008 16:05

Tgt Ion:117 Resp: 5803

Ion	Ratio	Lower	Upper
117	100		
82	44.4	38.3	57.5
119	32.3	26.0	39.0

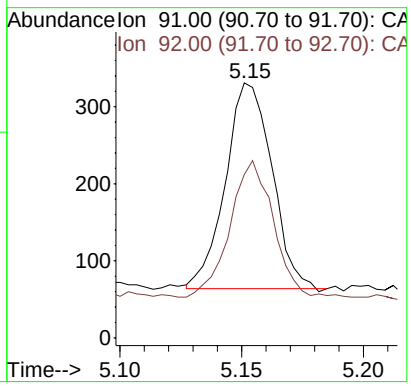


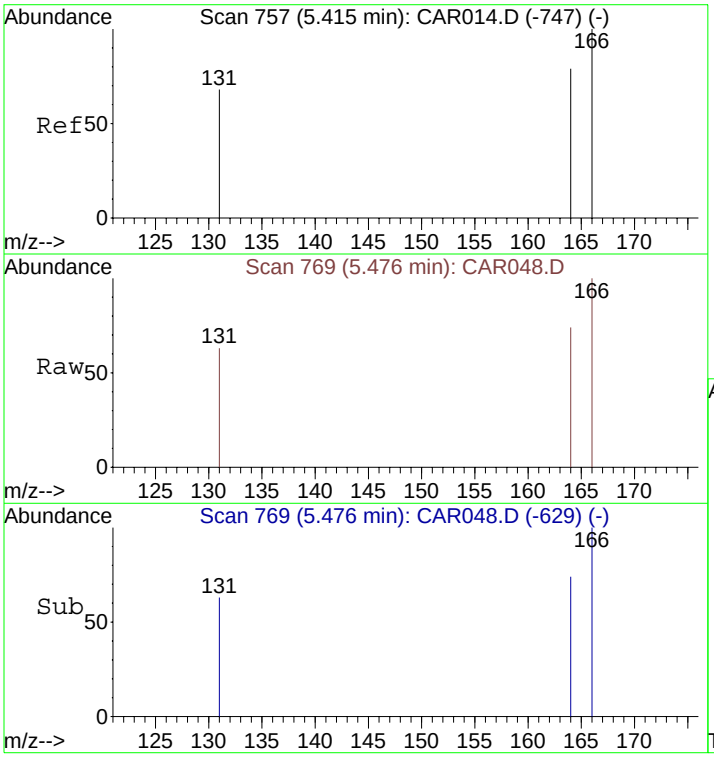


#13
Toluene
Concen: 1.00 ppbv
RT: 5.15 min Scan# 690
Delta R.T. 0.05 min
Lab File: CAR048.D
Acq: 16 Sep 2008 16:05

Tgt Ion: 91 Resp: 353

Ion	Ratio	Lower	Upper
91	100		
92	61.8	48.2	72.2

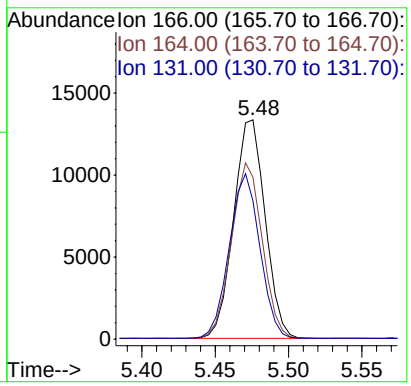




#14
Tetrachloroethene
Concen: 93.87 ppbv
RT: 5.48 min Scan# 769
Delta R.T. 0.06 min
Lab File: CAR048.D
Acq: 16 Sep 2008 16:05

Tgt Ion:166 Resp: 19897

Ion	Ratio	Lower	Upper
166	100		
164	78.5	63.1	94.7
131	73.1	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR049.D Vial: 1
Acq On : 16 Sep 2008 16:16 Operator: dlm
Sample : 51377\C6-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 16:24:57 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.15	49	1732	10.00 ppbv	0.01
9) 1,4-Difluorobenzene	4.49	114	5772	10.00 ppbv	0.02
12) Chlorobenzene-d5	5.84	117	5615	10.00 ppbv	0.05

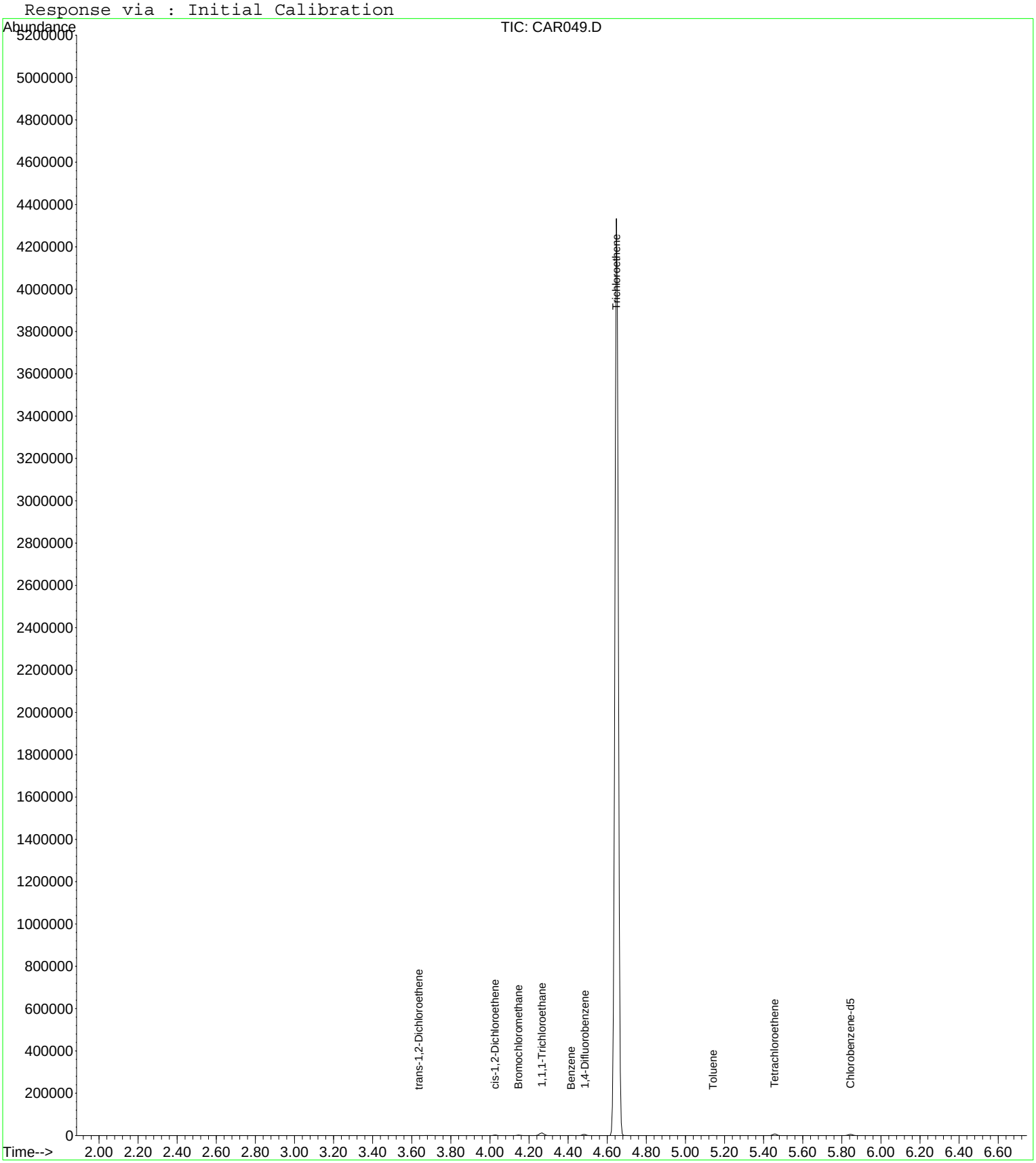
Target Compounds					Qvalue
5) trans-1,2-Dichloroethene	3.64	61	160	1.10 ppbv	98
7) cis-1,2-Dichloroethene	4.02	61	1535	10.55 ppbv	89
8) 1,1,1-Trichloroethane	4.27	97	10215	47.25 ppbv	99
10) Benzene	4.42	78	455m	1.30 ppbv	
11) Trichloroethene	4.65	130	1948036	11397.11 ppbv	94
13) Toluene	5.14	91	515	1.51 ppbv	99
14) Tetrachloroethene	5.46	166	4629	22.57 ppbv	95

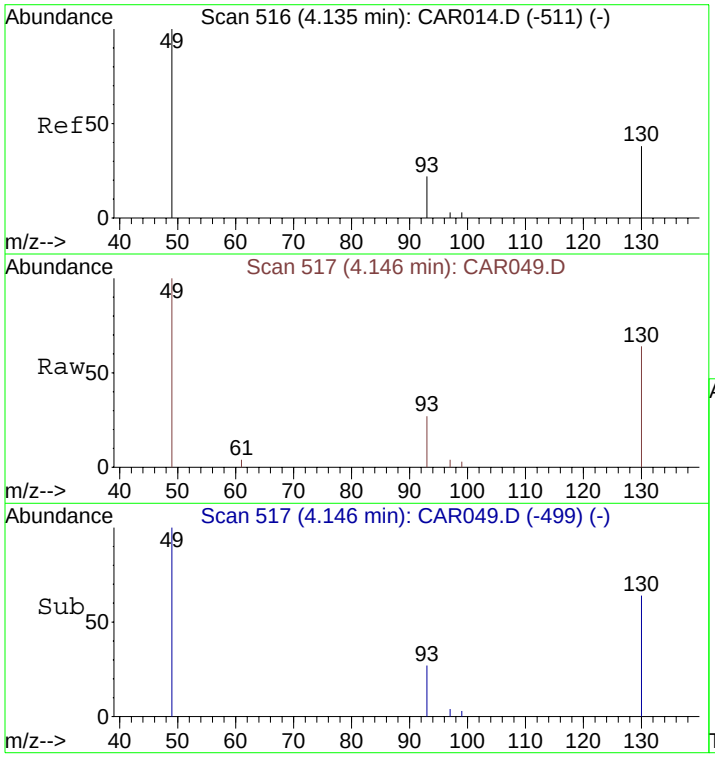
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR049.D Vial: 1
Acq On : 16 Sep 2008 16:16 Operator: dlm
Sample : 51377\C6-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:39 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Thu Oct 02 13:10:18 2008
Response via : Initial Calibration

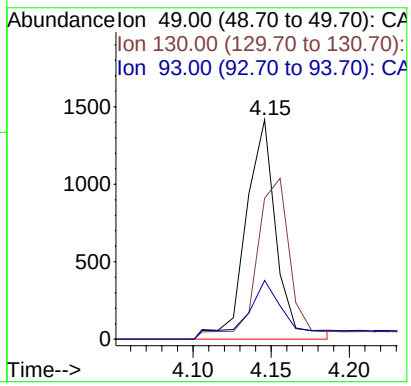


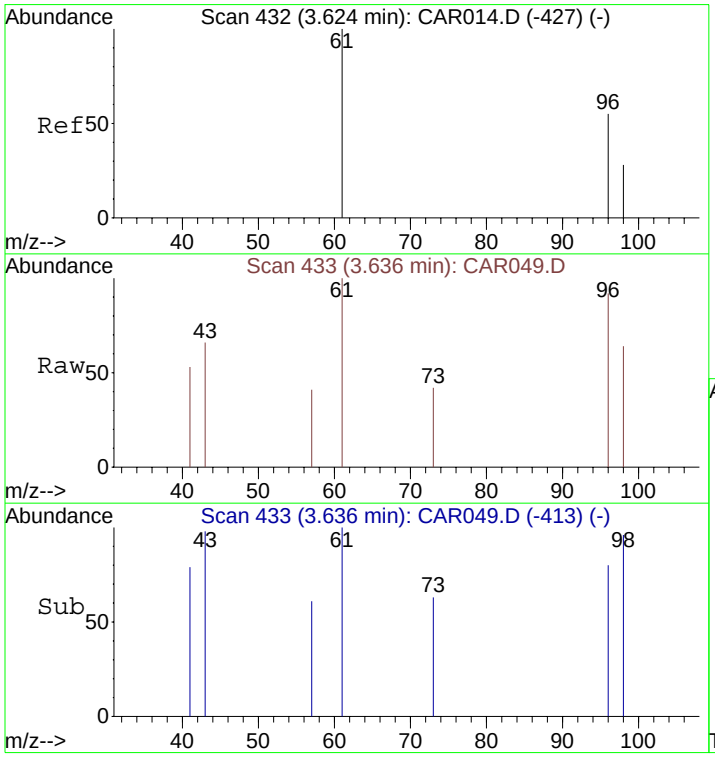


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.15 min Scan# 517
Delta R.T. 0.01 min
Lab File: CAR049.D
Acq: 16 Sep 2008 16:16

Tgt Ion: 49 Resp: 1732

Ion	Ratio	Lower	Upper
49	100		
130	83.8	65.1	97.7
93	37.4	33.8	50.6

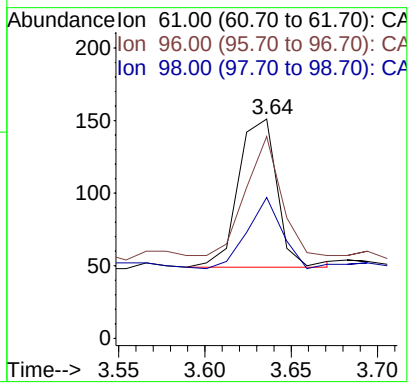


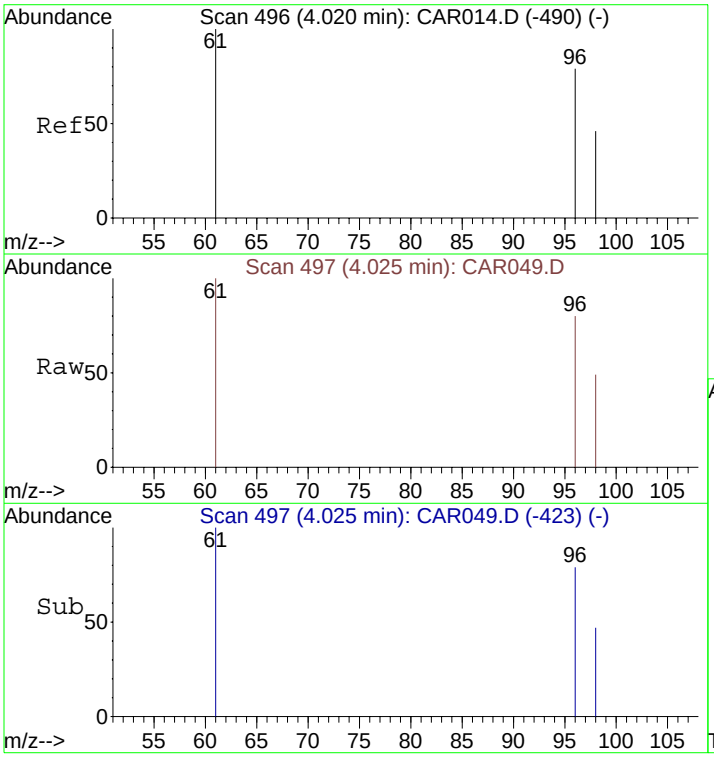


#5
trans-1,2-Dichloroethene
Concen: 1.10 ppbv
RT: 3.64 min Scan# 433
Delta R.T. 0.01 min
Lab File: CAR049.D
Acq: 16 Sep 2008 16:16

Tgt Ion: 61 Resp: 160

Ion	Ratio	Lower	Upper
61	100		
96	71.9	55.0	82.4
98	44.4	35.6	53.4

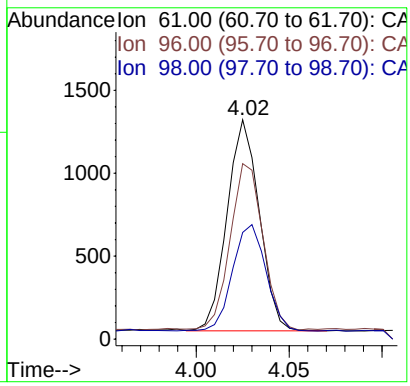


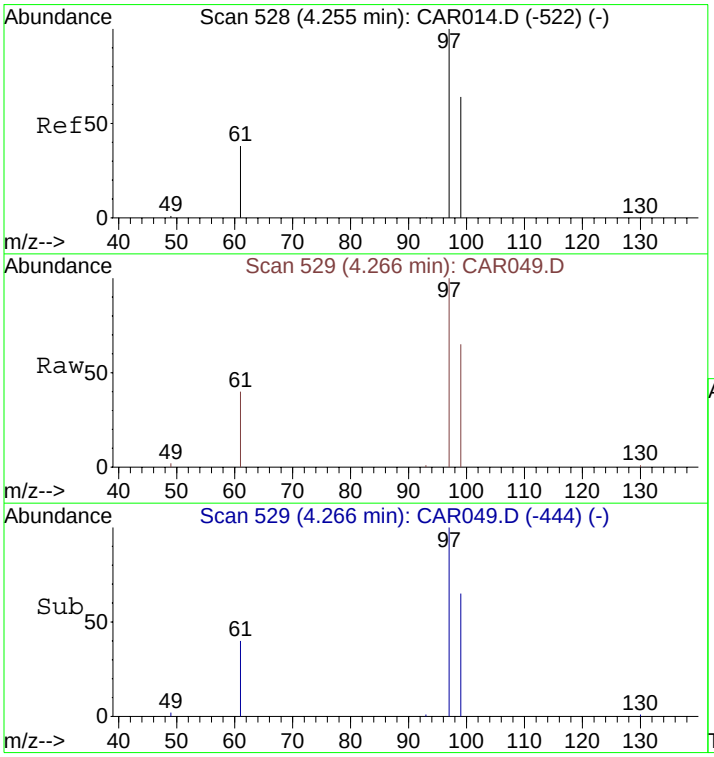


#7
cis-1,2-Dichloroethene
Concen: 10.55 ppbv
RT: 4.02 min Scan# 497
Delta R.T. 0.01 min
Lab File: CAR049.D
Acq: 16 Sep 2008 16:16

Tgt Ion: 61 Resp: 1535

Ion	Ratio	Lower	Upper
61	100		
96	79.5	56.0	84.0
98	52.2	36.2	54.4

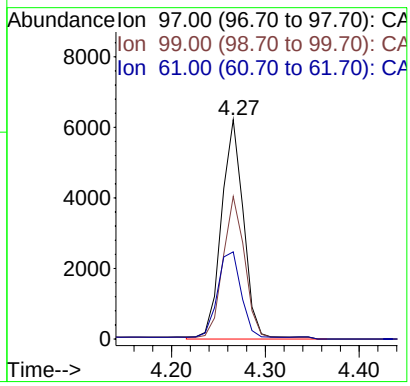


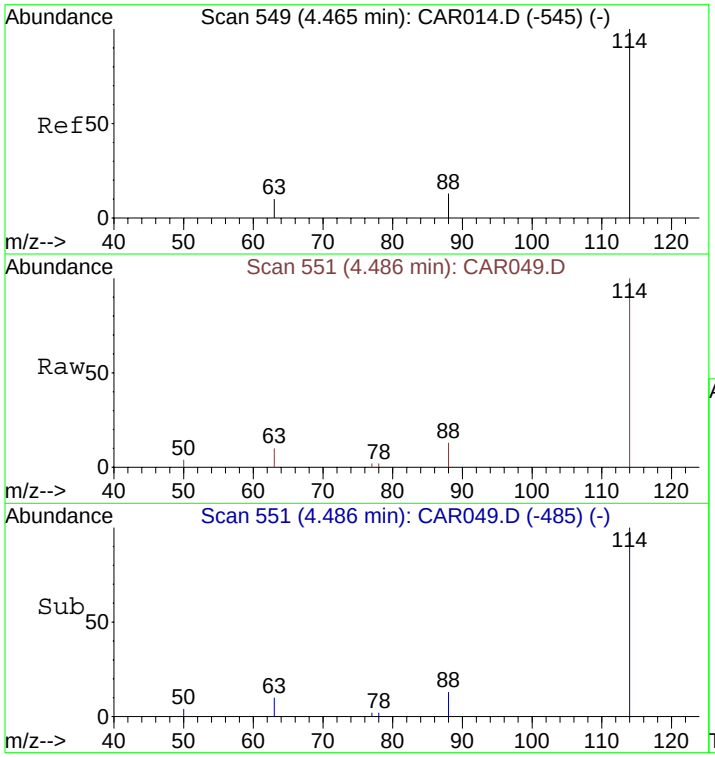


#8
1,1,1-Trichloroethane
Concen: 47.25 ppbv
RT: 4.27 min Scan# 529
Delta R.T. 0.01 min
Lab File: CAR049.D
Acq: 16 Sep 2008 16:16

Tgt Ion: 97 Resp: 10215

Ion	Ratio	Lower	Upper
97	100		
99	65.3	51.8	77.8
61	40.8	32.1	48.1

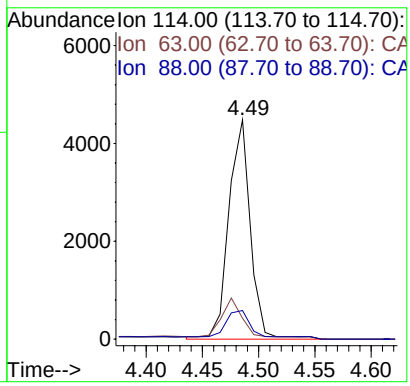


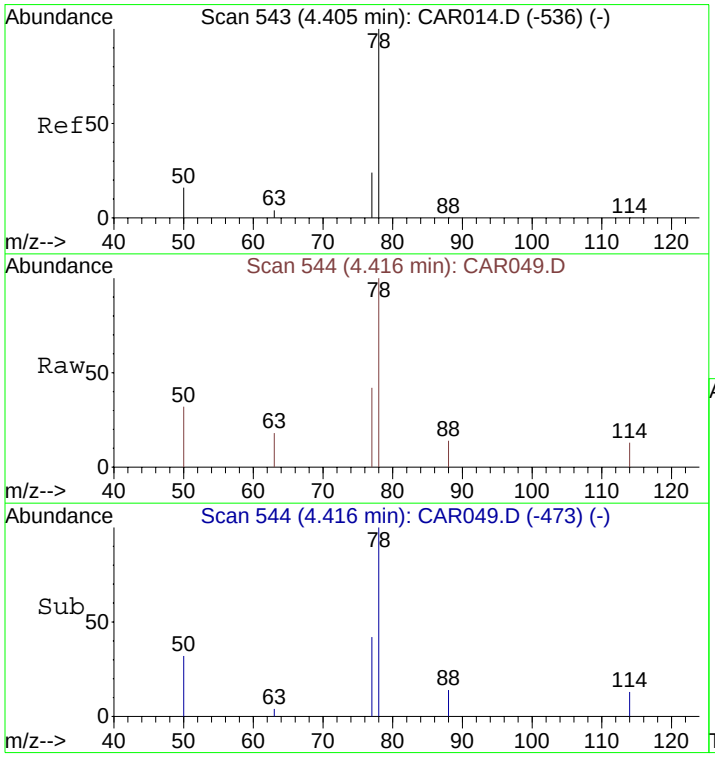


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.49 min Scan# 551
Delta R.T. 0.02 min
Lab File: CAR049.D
Acq: 16 Sep 2008 16:16

Tgt Ion:114 Resp: 5772

Ion	Ratio	Lower	Upper
114	100		
63	21.5	15.8	23.8
88	17.3	12.2	18.2

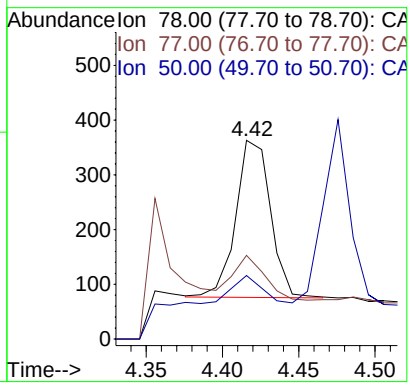


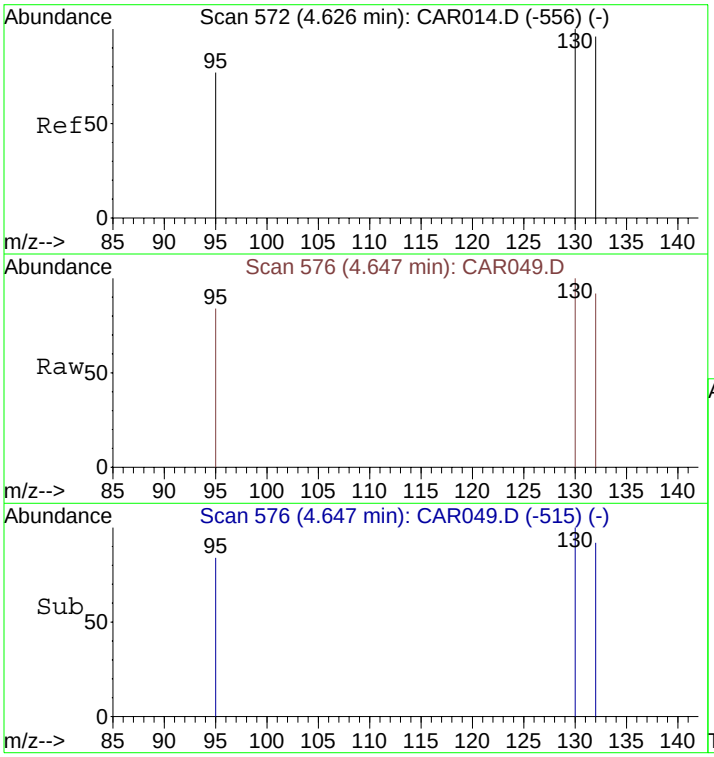


#10
Benzene
Concen: 1.30 ppbv m
RT: 4.42 min Scan# 544
Delta R.T. 0.01 min
Lab File: CAR049.D
Acq: 16 Sep 2008 16:16

Tgt Ion: 78 Resp: 455

Ion	Ratio	Lower	Upper
78	100		
77	21.1	18.6	28.0
50	14.7	16.2	24.4#

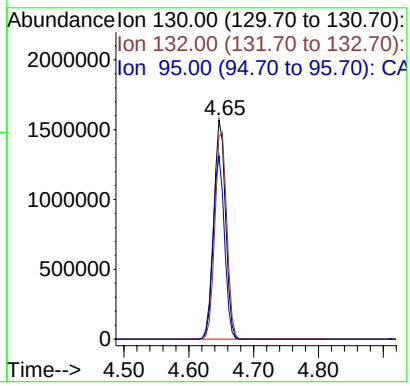


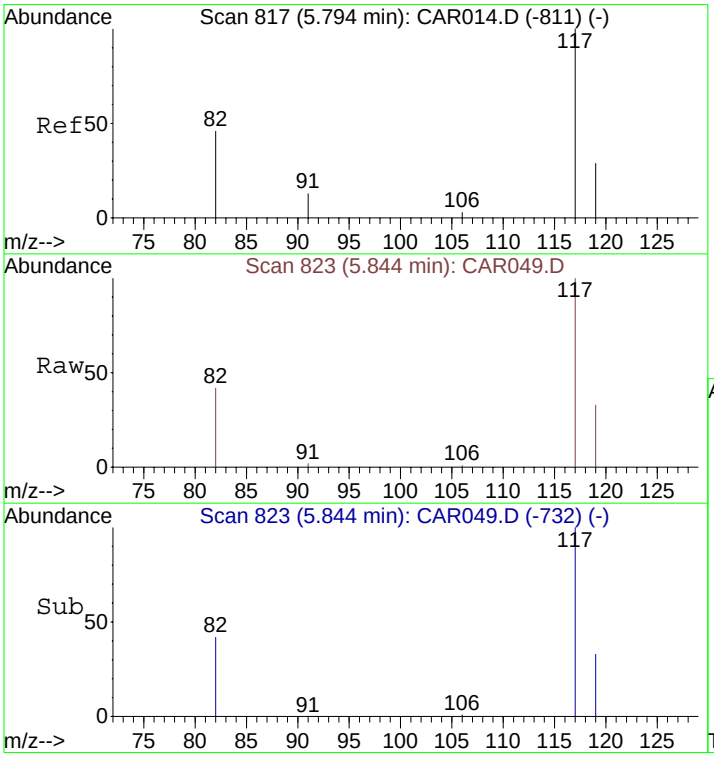


#11
Trichloroethene
Concen: 11397.11 ppbv
RT: 4.65 min Scan# 576
Delta R.T. 0.02 min
Lab File: CAR049.D
Acq: 16 Sep 2008 16:16

Tgt Ion:130 Resp: 1948036

Ion	Ratio	Lower	Upper
130	100		
132	96.7	73.8	110.6
95	83.2	72.5	108.7

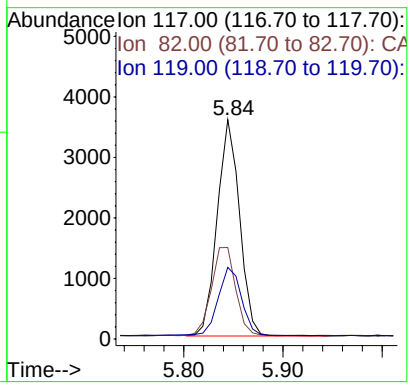


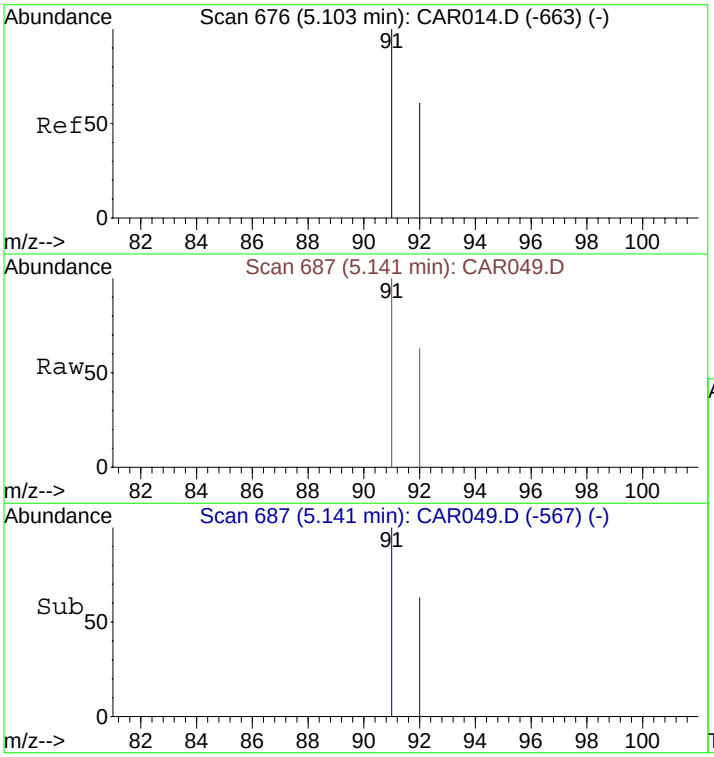


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.84 min Scan# 823
Delta R.T. 0.05 min
Lab File: CAR049.D
Acq: 16 Sep 2008 16:16

Tgt Ion:117 Resp: 5615

Ion	Ratio	Lower	Upper
117	100		
82	44.3	38.3	57.5
119	33.1	26.0	39.0

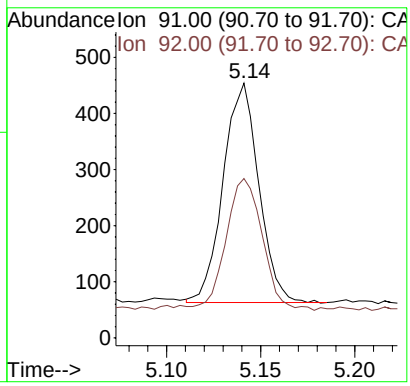


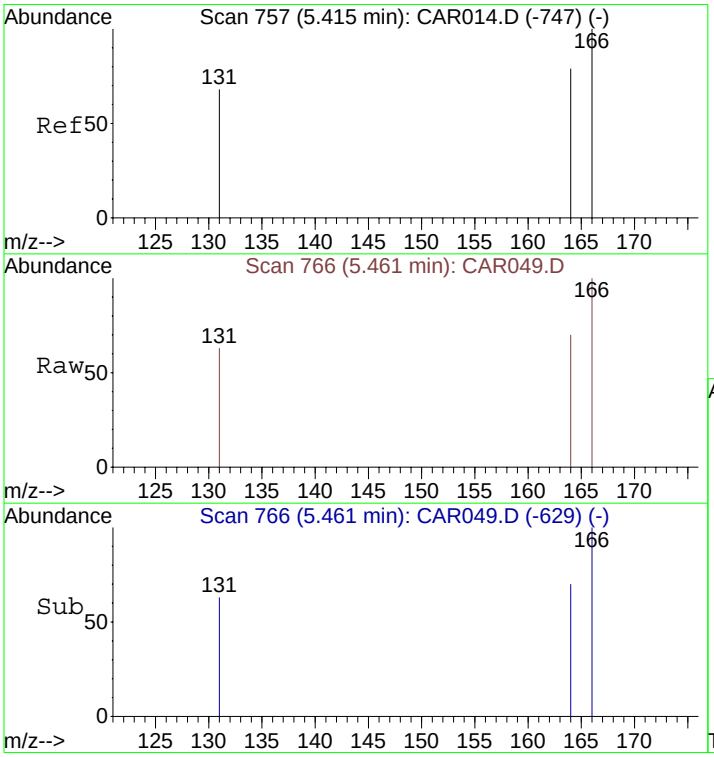


#13
Toluene
Concen: 1.51 ppbv
RT: 5.14 min Scan# 687
Delta R.T. 0.04 min
Lab File: CAR049.D
Acq: 16 Sep 2008 16:16

Tgt Ion: 91 Resp: 515

Ion	Ratio	Lower	Upper
91	100		
92	61.0	48.2	72.2

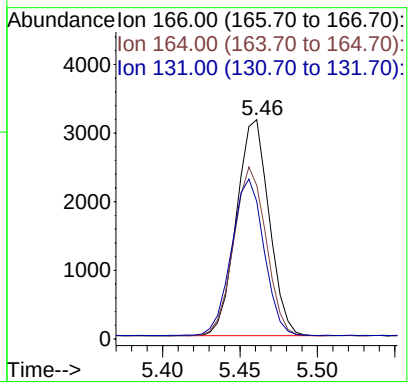




#14
Tetrachloroethene
Concen: 22.57 ppbv
RT: 5.46 min Scan# 766
Delta R.T. 0.05 min
Lab File: CAR049.D
Acq: 16 Sep 2008 16:16

Tgt Ion:166 Resp: 4629

Ion	Ratio	Lower	Upper
166	100		
164	77.4	63.1	94.7
131	72.1	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR050.D Vial: 1
Acq On : 16 Sep 2008 16:27 Operator: dlm
Sample : 51371\D1-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 16 16:46:04 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1685	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	5930	10.00 ppbv	0.01
12) Chlorobenzene-d5	5.83	117	5637	10.00 ppbv	0.03

Target Compounds					Qvalue
5) trans-1,2-Dichloroethene	3.62	61	788	55.66 ppbv	96
7) cis-1,2-Dichloroethene	4.02	61	659m	46.55 ppbv	
8) 1,1,1-Trichloroethane	4.26	97	118	5.61 ppbv #	72
10) Benzene	4.42	78	410m	11.37 ppbv	
11) Trichloroethene	4.64	130	271701	15472.50 ppbv *	94
13) Toluene	5.12	91	198	5.78 ppbv	93
14) Tetrachloroethene	5.44	166	291	14.13 ppbv	92

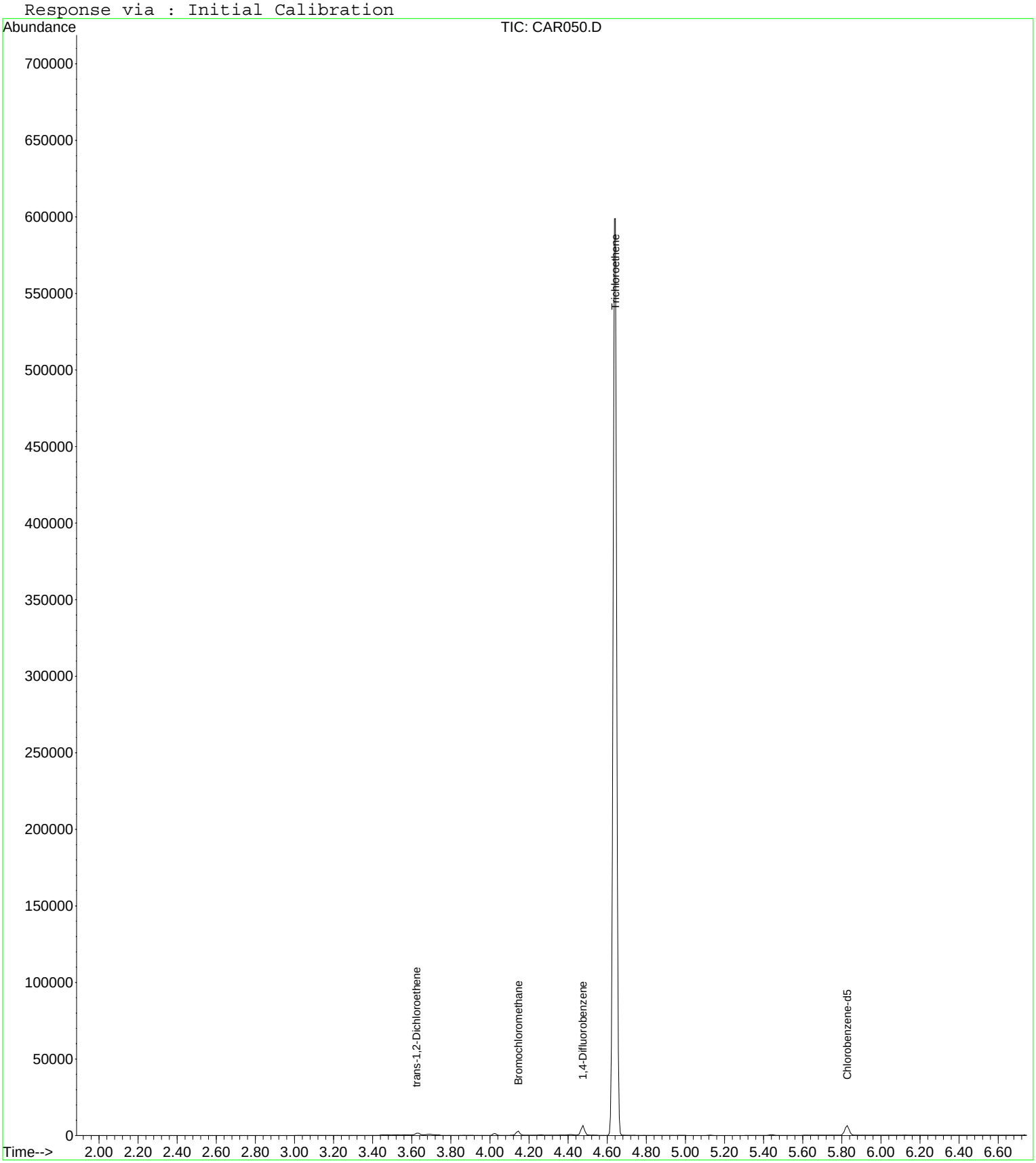
* Value use in file CAR044

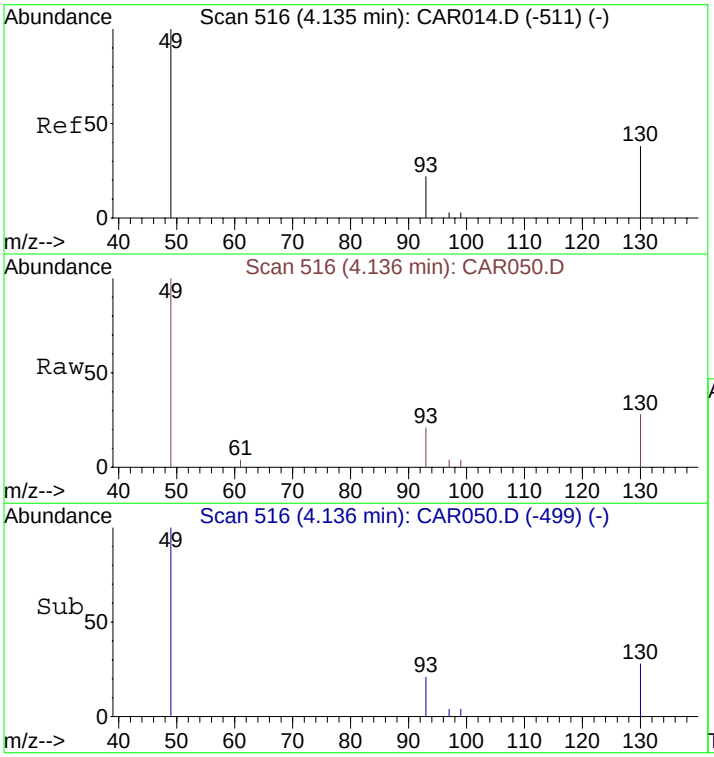
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR050.D Vial: 1
Acq On : 16 Sep 2008 16:27 Operator: dlm
Sample : 51371\D1-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 29 14:41 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 10:37:21 2008
Response via : Initial Calibration

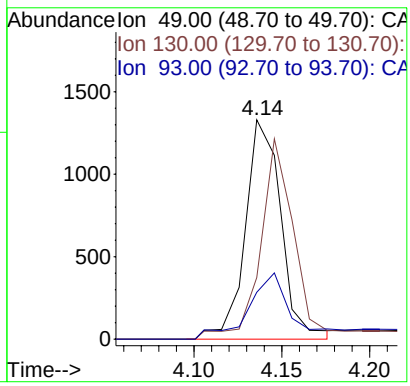


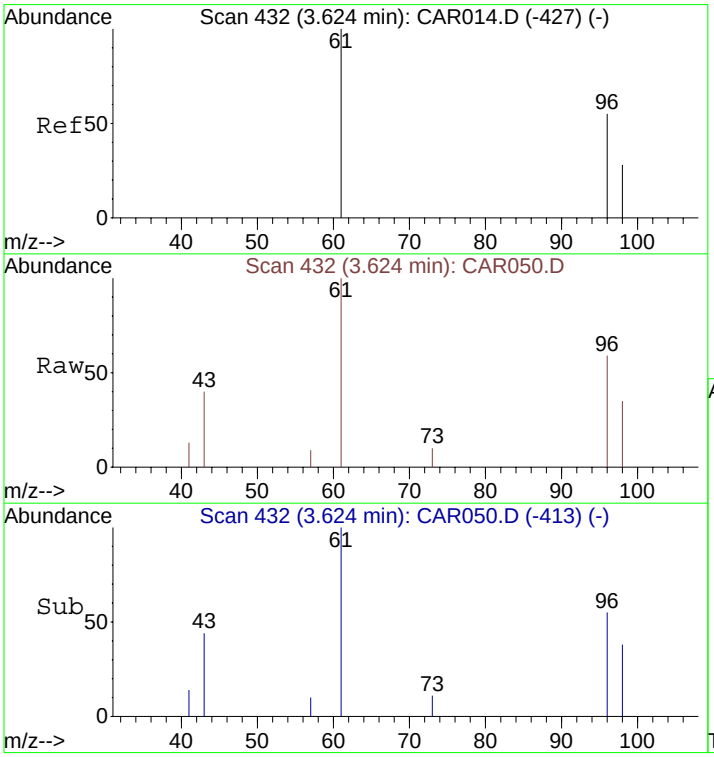


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR050.D
Acq: 16 Sep 2008 16:27

Tgt Ion: 49 Resp: 1685

Ion	Ratio	Lower	Upper
49	100		
130	86.4	65.1	97.7
93	37.6	33.8	50.6

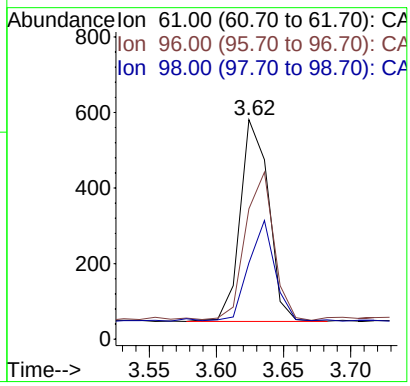


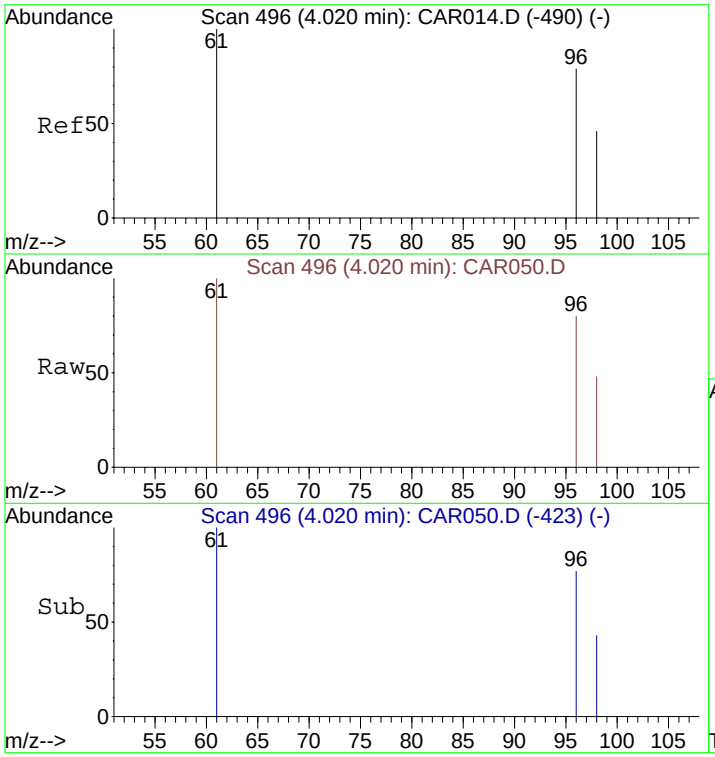


#5
trans-1,2-Dichloroethene
Concen: 55.66 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR050.D
Acq: 16 Sep 2008 16:27

Tgt Ion: 61 Resp: 788

Ion	Ratio	Lower	Upper
61	100		
96	73.4	55.0	82.4
98	45.9	35.6	53.4

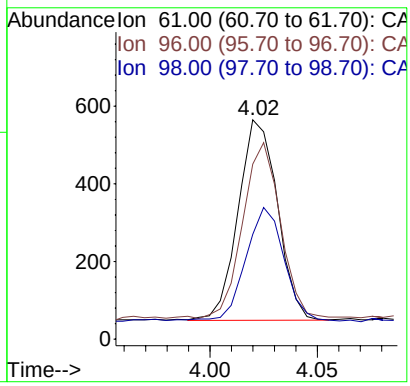


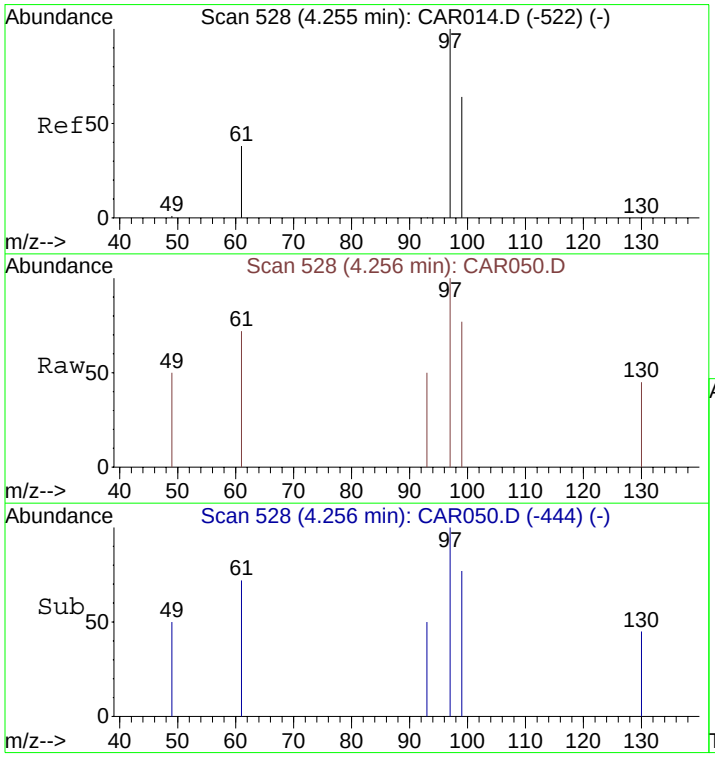


#7
cis-1,2-Dichloroethene
Concen: 46.55 ppbv m
RT: 4.02 min Scan# 496
Delta R.T. 0.00 min
Lab File: CAR050.D
Acq: 16 Sep 2008 16:27

Tgt Ion: 61 Resp: 659

Ion	Ratio	Lower	Upper
61	100		
96	91.4	56.0	84.0#
98	57.2	36.2	54.4#

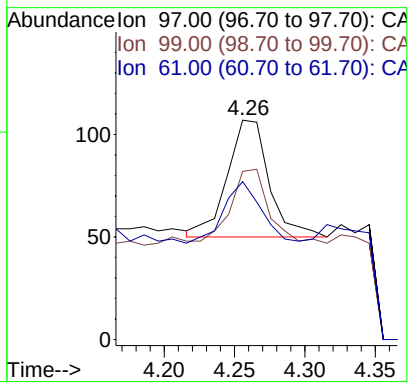


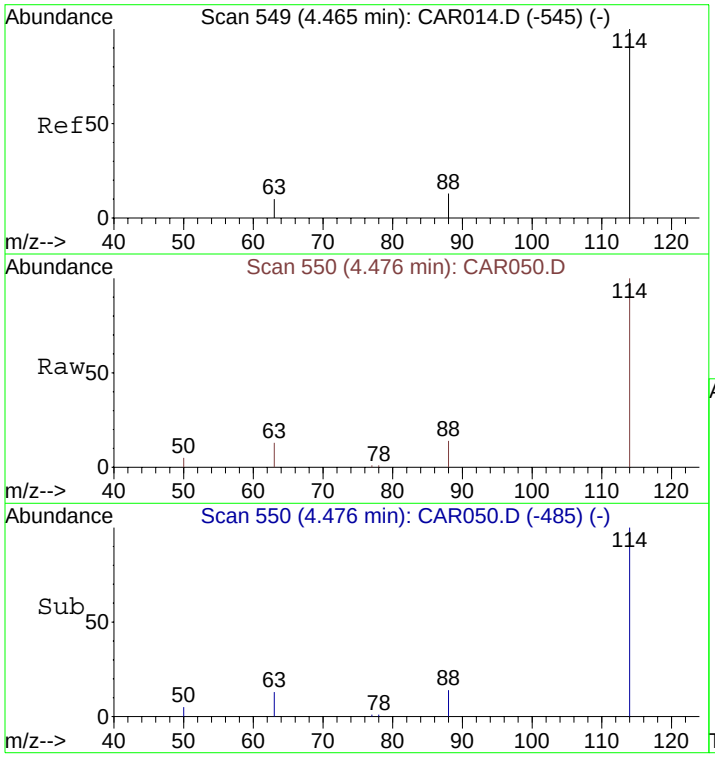


#8
1,1,1-Trichloroethane
Concen: 5.61 ppbv
RT: 4.26 min Scan# 528
Delta R.T. 0.00 min
Lab File: CAR050.D
Acq: 16 Sep 2008 16:27

Tgt Ion: 97 Resp: 118

Ion	Ratio	Lower	Upper
97	100		
99	98.3	51.8	77.8#
61	42.4	32.1	48.1

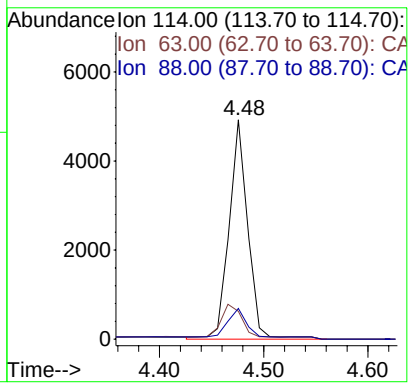


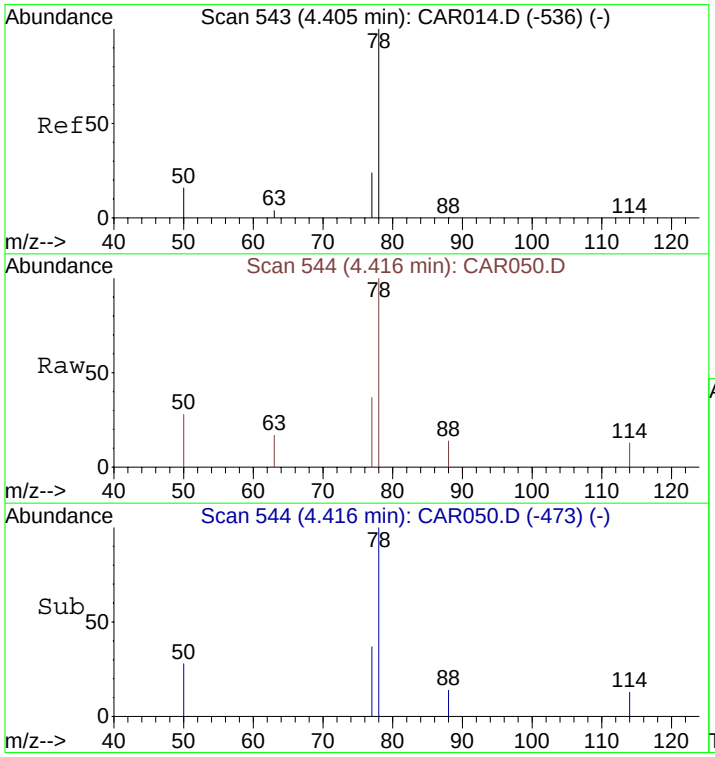


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR050.D
Acq: 16 Sep 2008 16:27

Tgt Ion:114 Resp: 5930

Ion	Ratio	Lower	Upper
114	100		
63	16.4	15.8	23.8
88	14.1	12.2	18.2

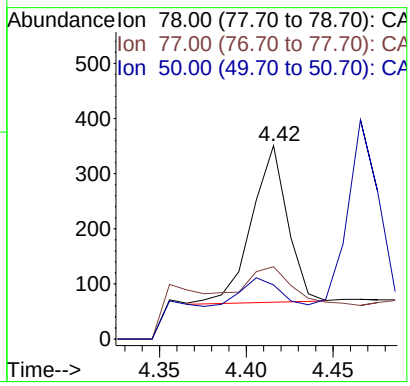


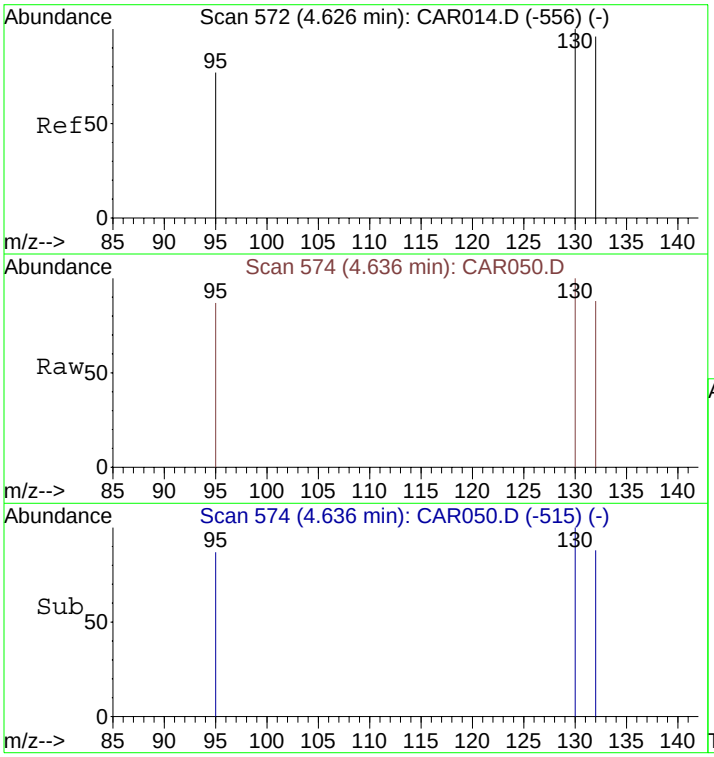


#10
Benzene
Concen: 11.37 ppbv m
RT: 4.42 min Scan# 544
Delta R.T. 0.01 min
Lab File: CAR050.D
Acq: 16 Sep 2008 16:27

Tgt Ion: 78 Resp: 410

Ion	Ratio	Lower	Upper
78	100		
77	22.2	18.6	28.0
50	18.0	16.2	24.4

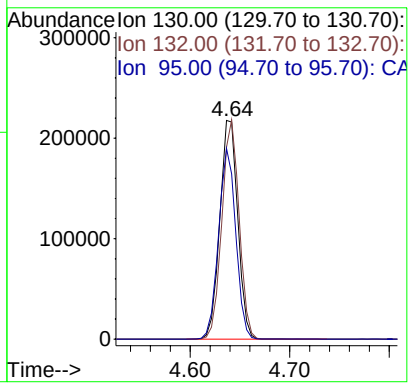


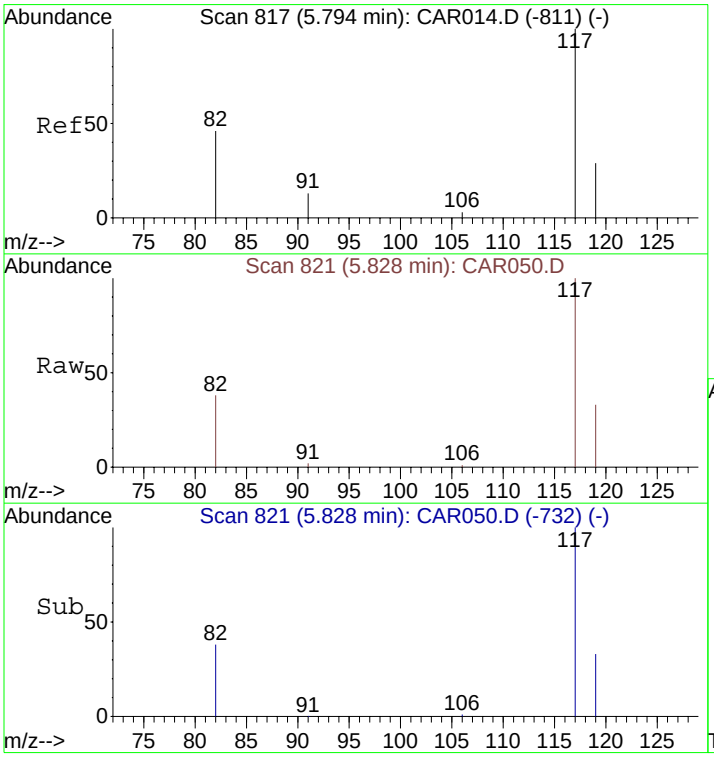


#11
Trichloroethene
Concen: 15472.50 ppbv
RT: 4.64 min Scan# 574
Delta R.T. 0.01 min
Lab File: CAR050.D
Acq: 16 Sep 2008 16:27

Tgt Ion:130 Resp: 271701

Ion	Ratio	Lower	Upper
130	100		
132	96.2	73.8	110.6
95	83.6	72.5	108.7

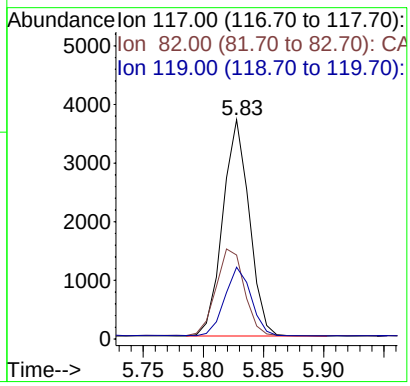


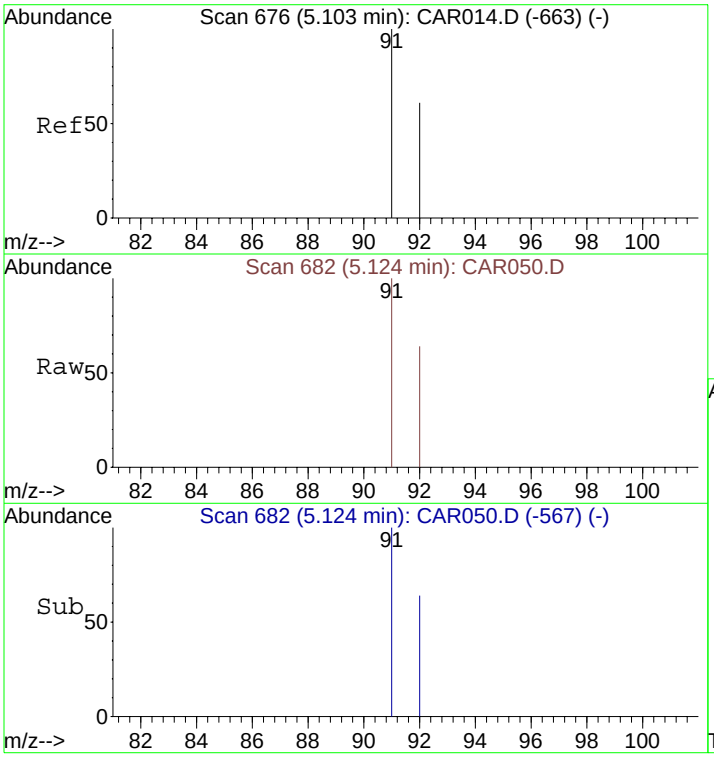


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.83 min Scan# 821
Delta R.T. 0.03 min
Lab File: CAR050.D
Acq: 16 Sep 2008 16:27

Tgt Ion:117 Resp: 5637

Ion	Ratio	Lower	Upper
117	100		
82	42.9	38.3	57.5
119	31.5	26.0	39.0

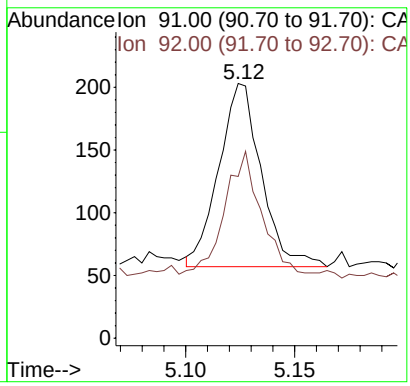


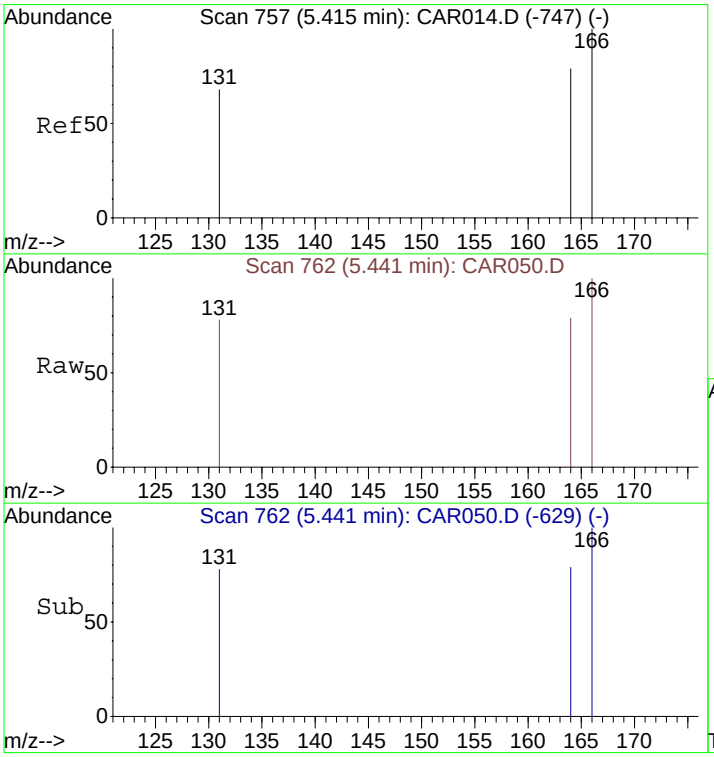


#13
Toluene
Concen: 5.78 ppbv
RT: 5.12 min Scan# 682
Delta R.T. 0.02 min
Lab File: CAR050.D
Acq: 16 Sep 2008 16:27

Tgt Ion: 91 Resp: 198

Ion	Ratio	Lower	Upper
91	100		
92	55.1	48.2	72.2

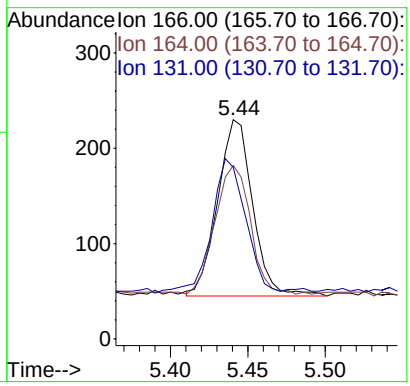




#14
Tetrachloroethene
Concen: 14.13 ppbv
RT: 5.44 min Scan# 762
Delta R.T. 0.03 min
Lab File: CAR050.D
Acq: 16 Sep 2008 16:27

Tgt Ion:166 Resp: 291

Ion	Ratio	Lower	Upper
166	100		
164	73.9	63.1	94.7
131	69.4	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR051.D Vial: 1
Acq On : 16 Sep 2008 16:40 Operator: dlm
Sample : 51378\C5-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 16:48:35 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1749	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	5750	10.00 ppbv	0.01
12) Chlorobenzene-d5	5.81	117	5393	10.00 ppbv	0.02

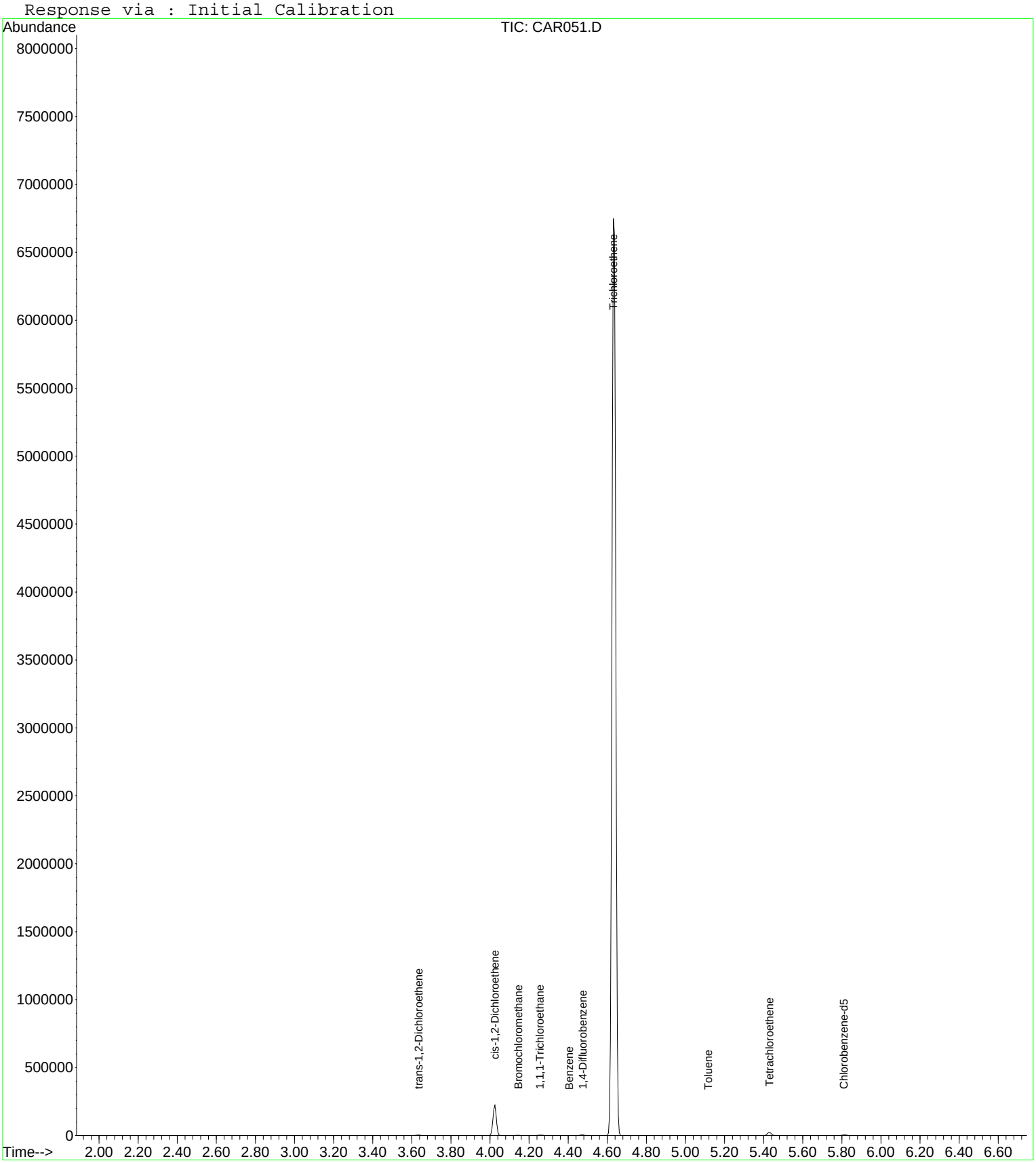
Target Compounds					Qvalue
5) trans-1,2-Dichloroethene	3.64	61	2952	20.09 ppbv	89
7) cis-1,2-Dichloroethene	4.02	61	114665	780.38 ppbv	87
8) 1,1,1-Trichloroethane	4.26	97	3697	16.93 ppbv #	74
10) Benzene	4.41	78	1002m	2.87 ppbv	
11) Trichloroethene	4.63	130	3359070	19727.64 ppbv	92
13) Toluene	5.11	91	574	1.75 ppbv	97
14) Tetrachloroethene	5.43	166	13777	69.94 ppbv	97

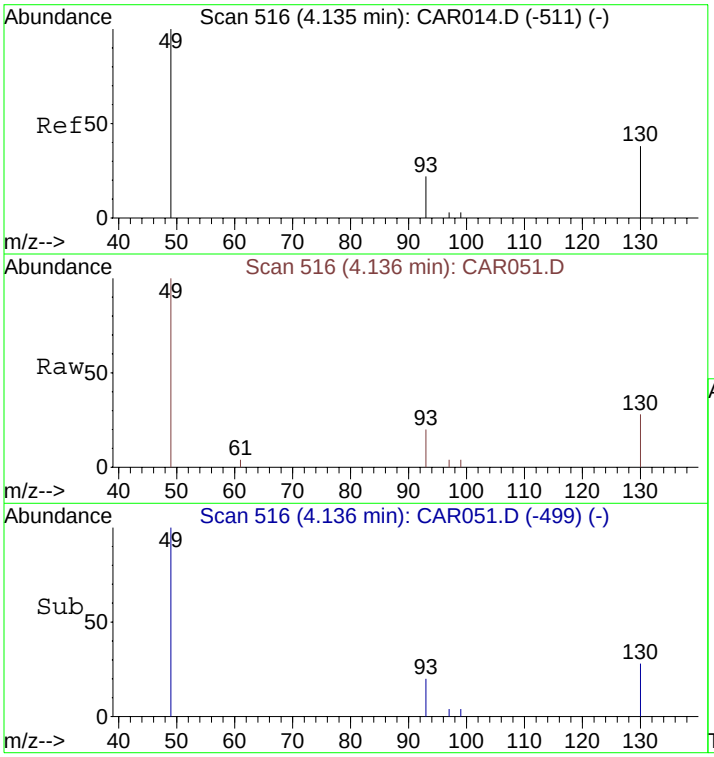
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR051.D Vial: 1
Acq On : 16 Sep 2008 16:40 Operator: dlm
Sample : 51378\C5-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:42 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Thu Oct 02 13:10:18 2008
Response via : Initial Calibration

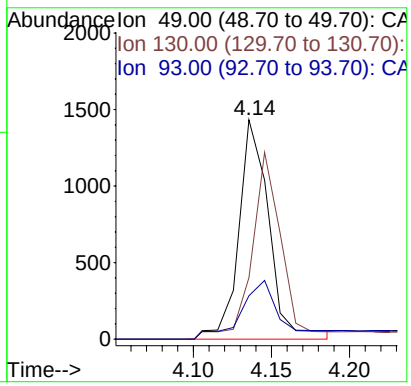


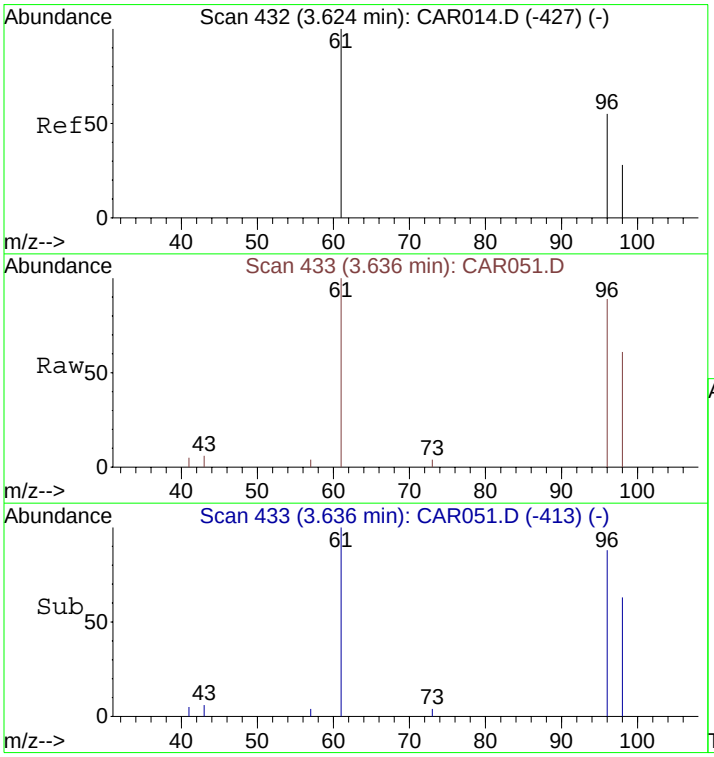


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR051.D
Acq: 16 Sep 2008 16:40

Tgt Ion: 49 Resp: 1749

Ion	Ratio	Lower	Upper
49	100		
130	82.8	65.1	97.7
93	35.3	33.8	50.6

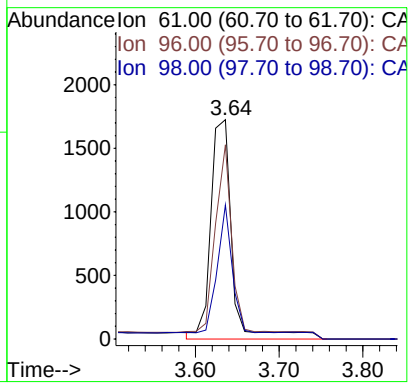


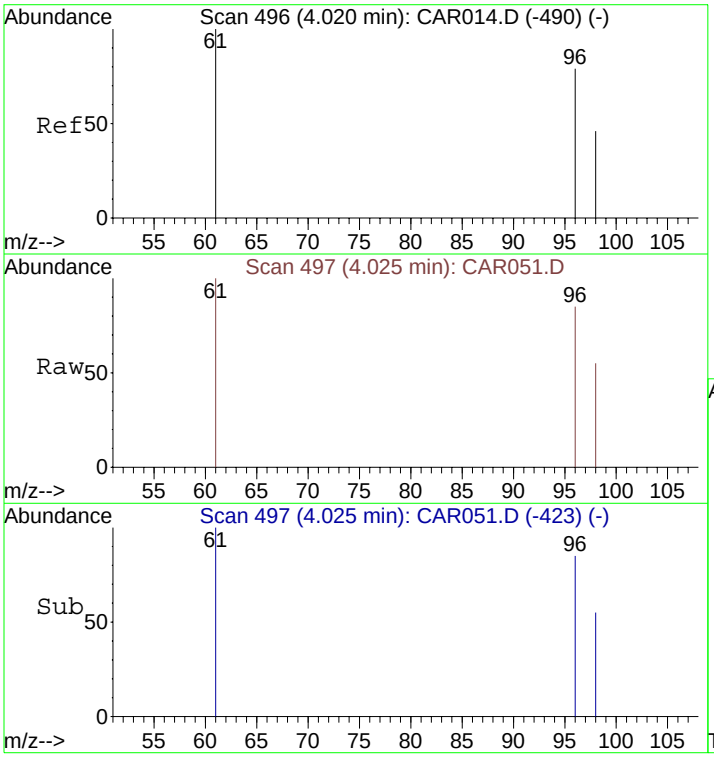


#5
trans-1,2-Dichloroethene
Concen: 20.09 ppbv
RT: 3.64 min Scan# 433
Delta R.T. 0.01 min
Lab File: CAR051.D
Acq: 16 Sep 2008 16:40

Tgt Ion: 61 Resp: 2952

Ion	Ratio	Lower	Upper
61	100		
96	81.7	55.0	82.4
98	42.1	35.6	53.4

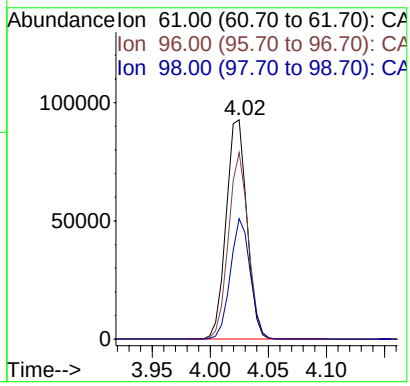


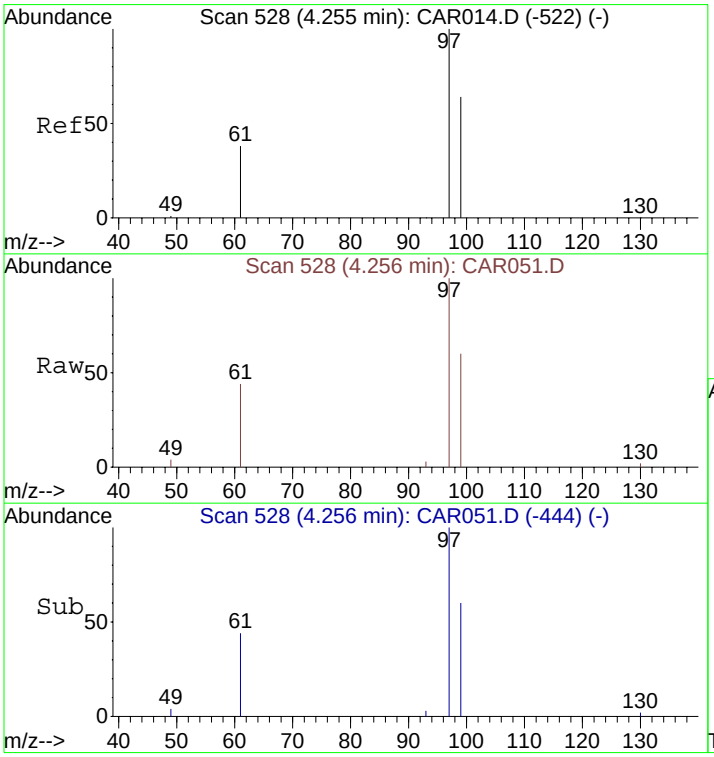


#7
cis-1,2-Dichloroethene
Concen: 780.38 ppbv
RT: 4.02 min Scan# 497
Delta R.T. 0.01 min
Lab File: CAR051.D
Acq: 16 Sep 2008 16:40

Tgt Ion: 61 Resp: 114665

Ion	Ratio	Lower	Upper
61	100		
96	81.4	56.0	84.0
98	52.8	36.2	54.4

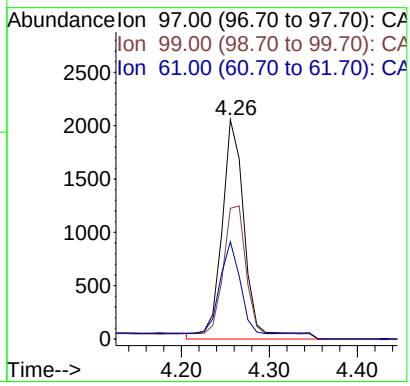


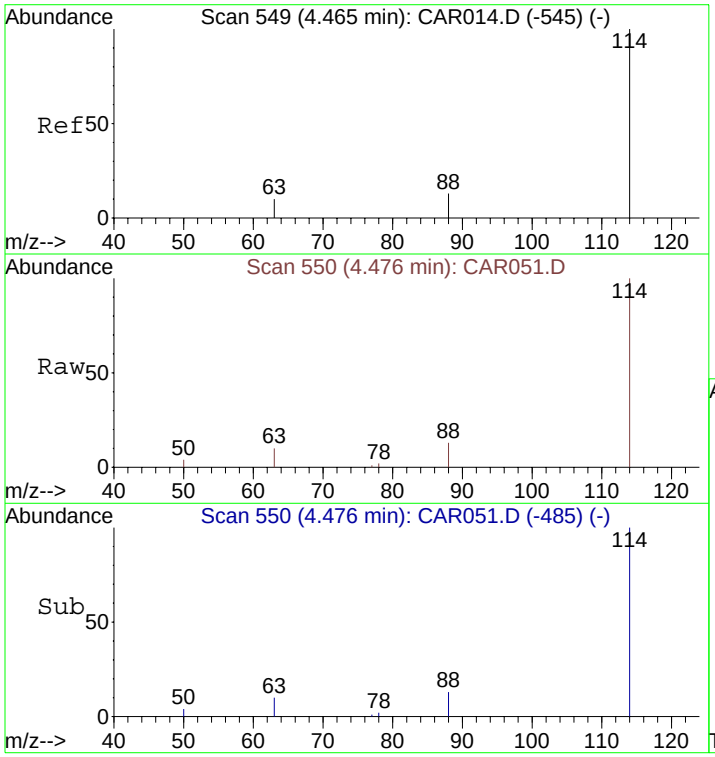


#8
1,1,1-Trichloroethane
Concen: 16.93 ppbv
RT: 4.26 min Scan# 528
Delta R.T. 0.00 min
Lab File: CAR051.D
Acq: 16 Sep 2008 16:40

Tgt Ion: 97 Resp: 3697

Ion	Ratio	Lower	Upper
97	100		
99	66.6	51.8	77.8
61	0.0	32.1	48.1#

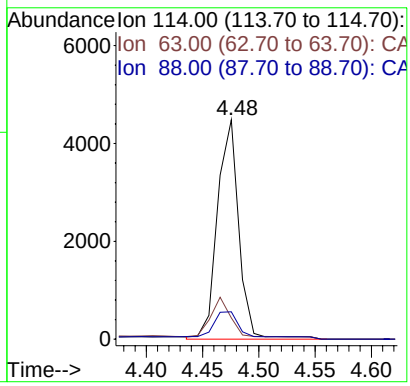


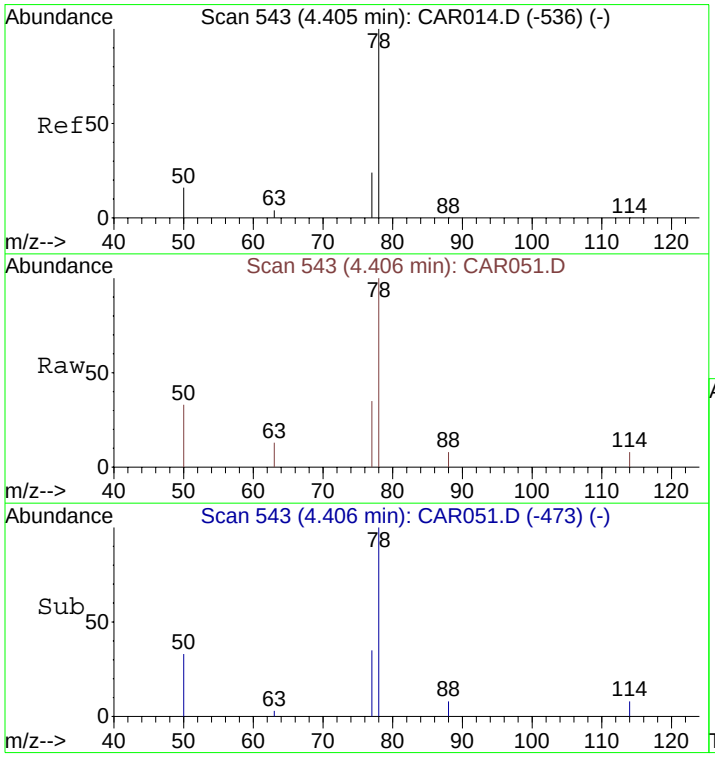


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR051.D
Acq: 16 Sep 2008 16:40

Tgt Ion:114 Resp: 5750

Ion	Ratio	Lower	Upper
114	100		
63	21.8	15.8	23.8
88	18.2	12.2	18.2

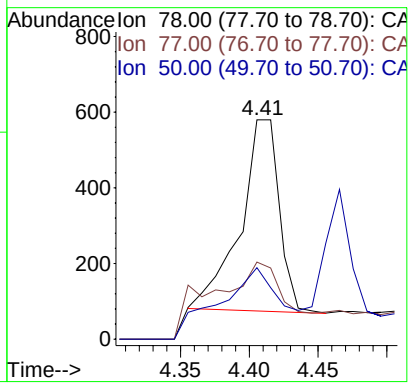


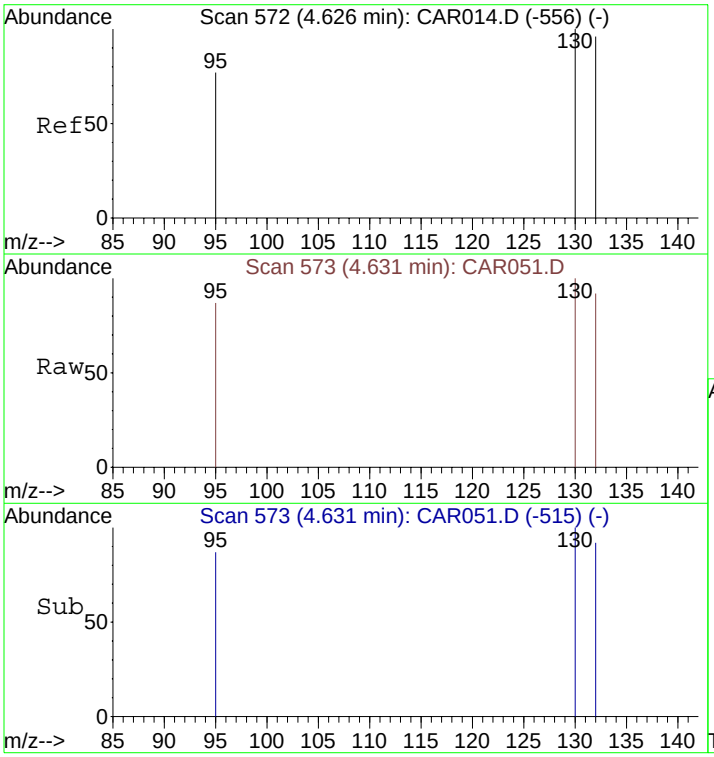


#10
Benzene
Concen: 2.87 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR051.D
Acq: 16 Sep 2008 16:40

Tgt Ion: 78 Resp: 1002

Ion	Ratio	Lower	Upper
78	100		
77	14.1	18.6	28.0#
50	13.1	16.2	24.4#

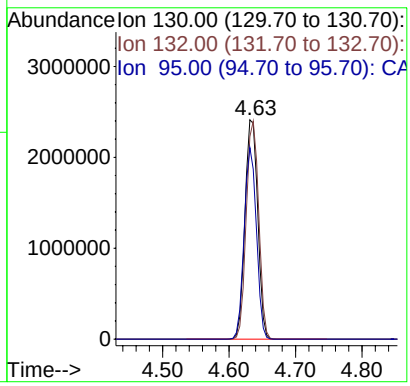


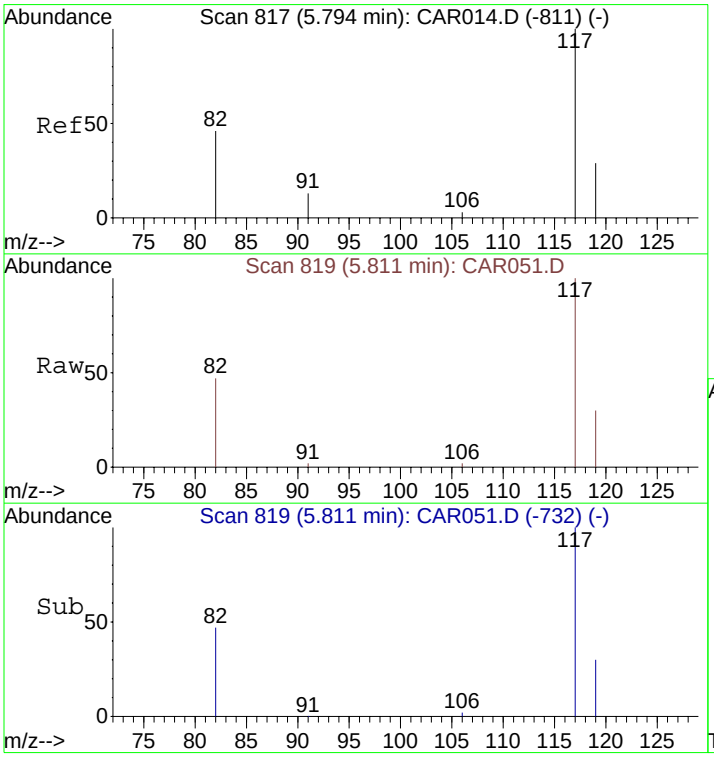


#11
Trichloroethene
Concen: 19727.64 ppbv
RT: 4.63 min Scan# 573
Delta R.T. 0.01 min
Lab File: CAR051.D
Acq: 16 Sep 2008 16:40

Tgt Ion:130 Resp: 3359070

Ion	Ratio	Lower	Upper
130	100		
132	96.6	73.8	110.6
95	80.0	72.5	108.7

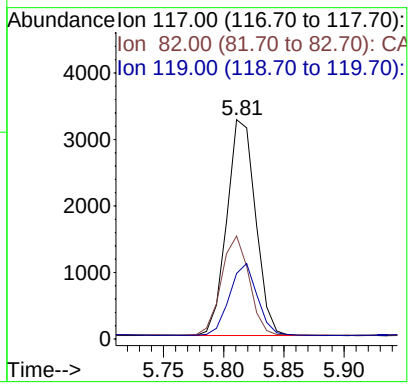


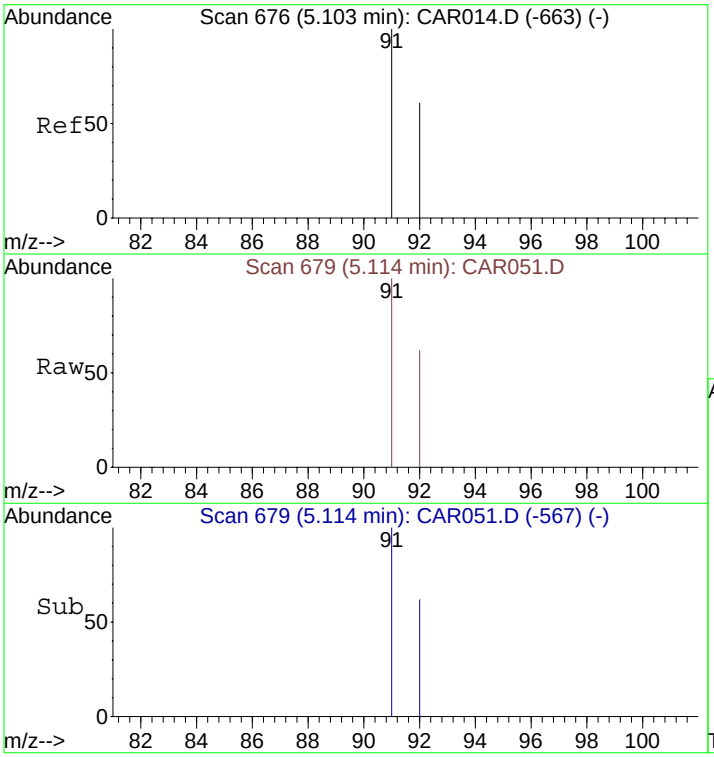


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.81 min Scan# 819
Delta R.T. 0.02 min
Lab File: CAR051.D
Acq: 16 Sep 2008 16:40

Tgt Ion:117 Resp: 5393

Ion	Ratio	Lower	Upper
117	100		
82	44.7	38.3	57.5
119	32.6	26.0	39.0

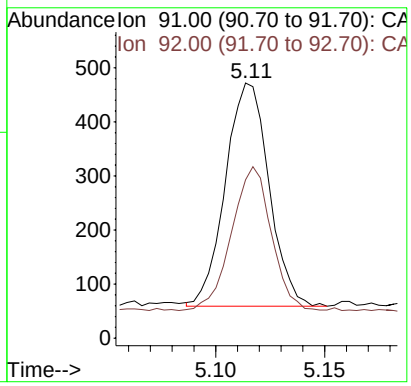


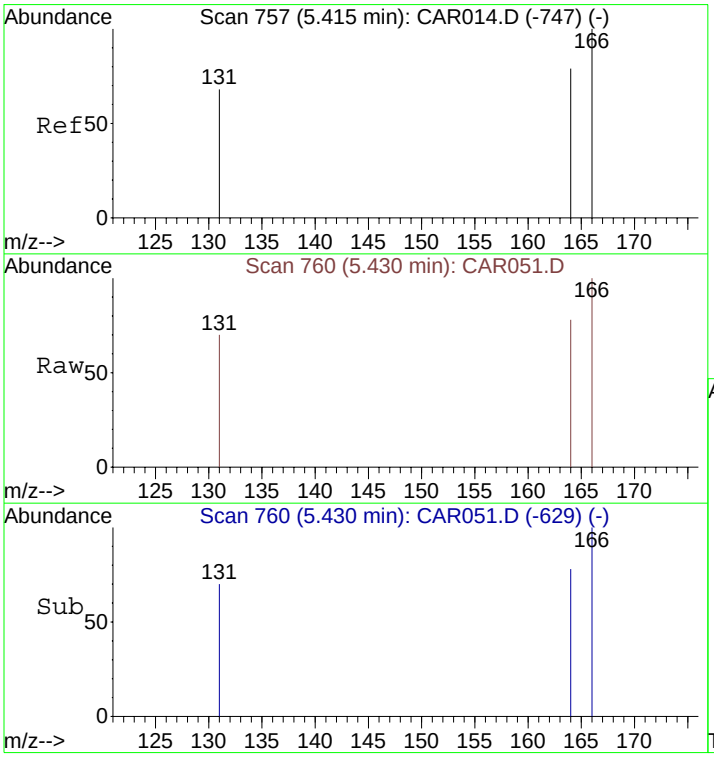


#13
Toluene
Concen: 1.75 ppbv
RT: 5.11 min Scan# 679
Delta R.T. 0.01 min
Lab File: CAR051.D
Acq: 16 Sep 2008 16:40

Tgt Ion: 91 Resp: 574

Ion	Ratio	Lower	Upper
91	100		
92	58.0	48.2	72.2

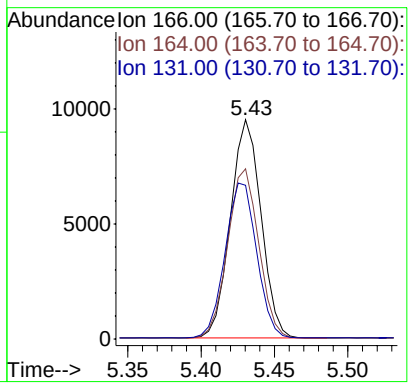




#14
Tetrachloroethene
Concen: 69.94 ppbv
RT: 5.43 min Scan# 760
Delta R.T. 0.02 min
Lab File: CAR051.D
Acq: 16 Sep 2008 16:40

Tgt Ion:166 Resp: 13777

Ion	Ratio	Lower	Upper
166	100		
164	78.3	63.1	94.7
131	73.1	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR052.D Vial: 1
Acq On : 16 Sep 2008 16:51 Operator: dlm
Sample : 51379\C7-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 16 17:41:49 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.13	49	1820	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	5899	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.82	117	5325	10.00 ppbv	0.03

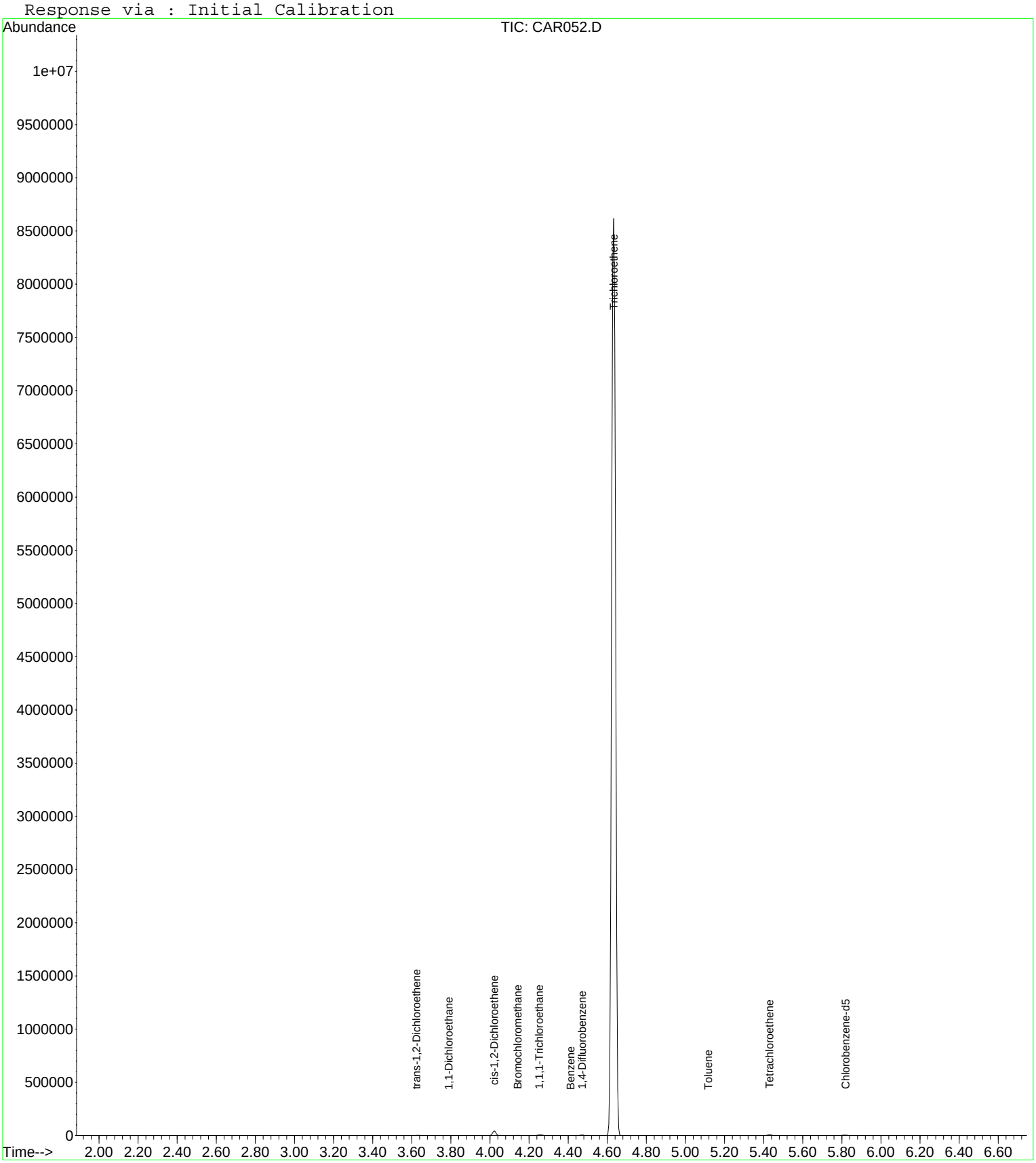
Target Compounds					Qvalue
5) trans-1,2-Dichloroethene	3.62	61	1902	12.44 ppbv	92
6) 1,1-Dichloroethane	3.79	63	975	4.85 ppbv #	41
7) cis-1,2-Dichloroethene	4.02	61	22598m	147.80 ppbv	
8) 1,1,1-Trichloroethane	4.25	97	6783	29.86 ppbv	99
10) Benzene	4.41	78	911m	2.54 ppbv	
11) Trichloroethene	4.63	130	4297155	24599.52 ppbv	95
13) Toluene	5.11	91	673	2.08 ppbv	99
14) Tetrachloroethene	5.43	166	5165	26.55 ppbv	97

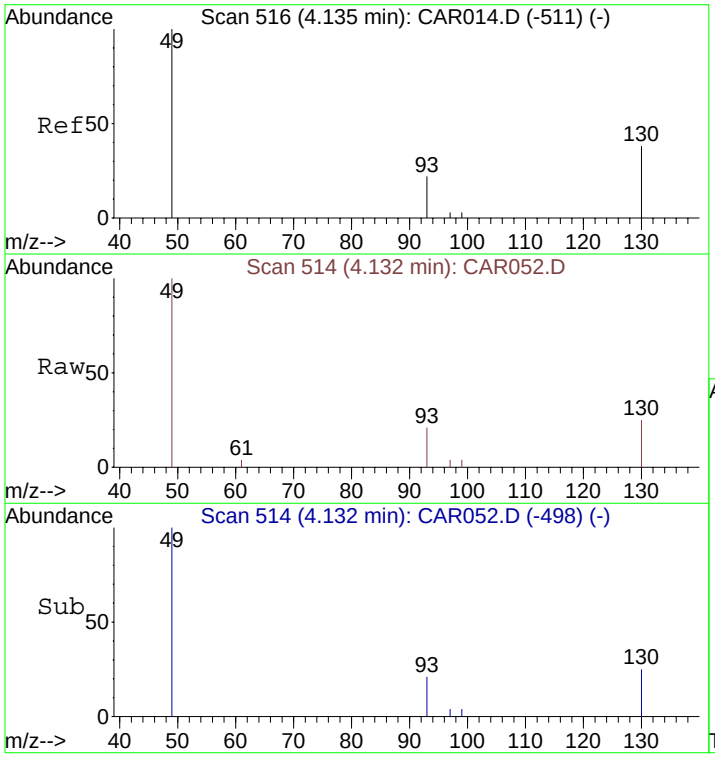
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR052.D Vial: 1
Acq On : 16 Sep 2008 16:51 Operator: dlm
Sample : 51379\C7-SG Inst : Instrumen
Misc : 5 ml\16 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:43 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Thu Oct 02 13:10:18 2008
Response via : Initial Calibration

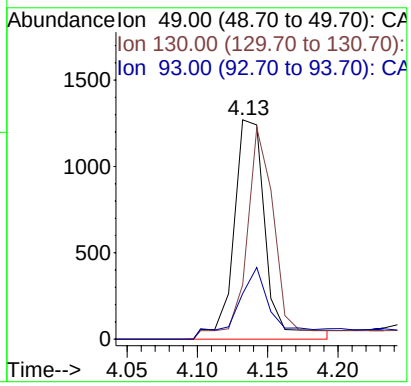


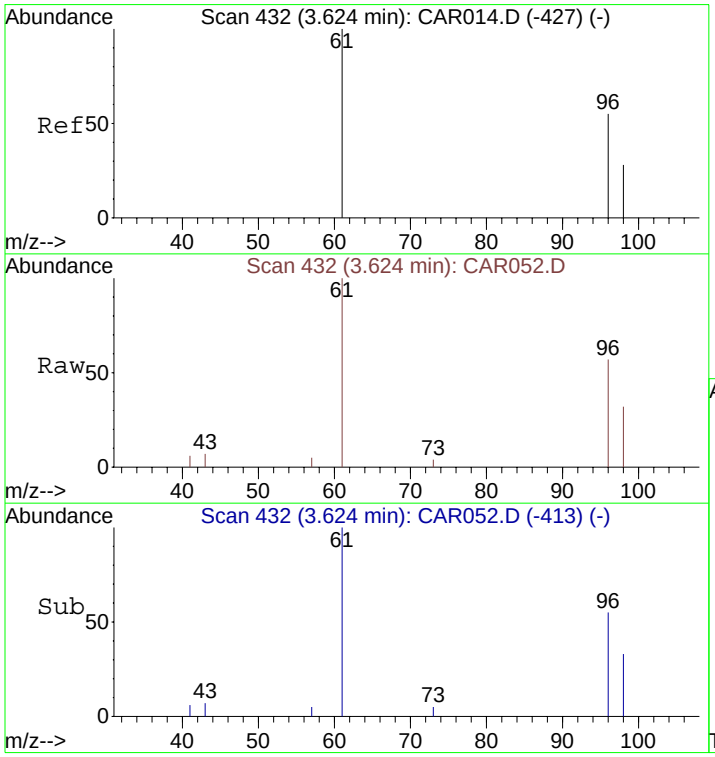


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.13 min Scan# 514
Delta R.T. -0.00 min
Lab File: CAR052.D
Acq: 16 Sep 2008 16:51

Tgt Ion: 49 Resp: 1820

Ion	Ratio	Lower	Upper
49	100		
130	83.4	65.1	97.7
93	35.9	33.8	50.6

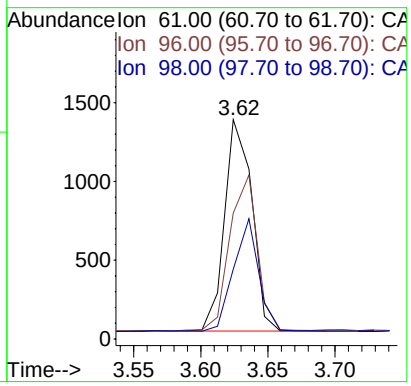


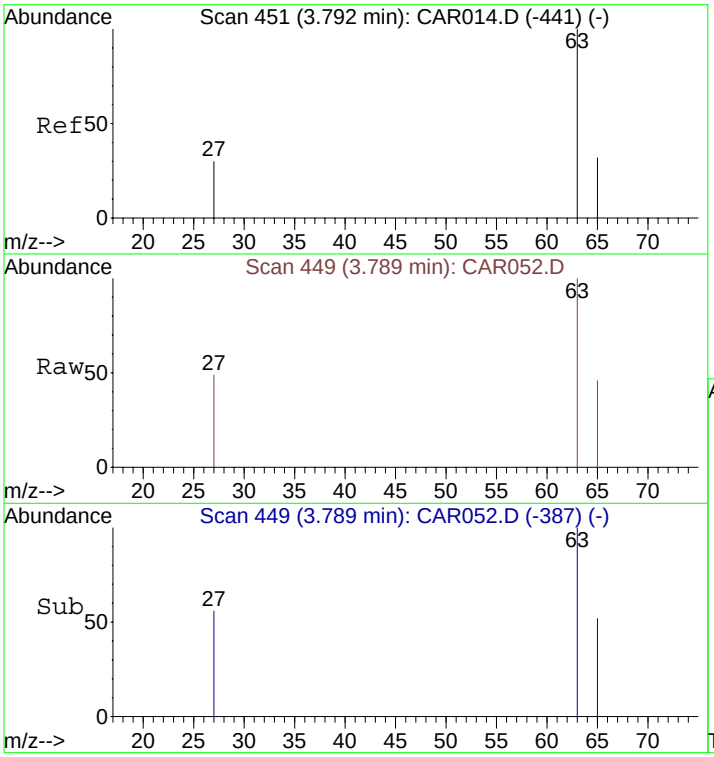


#5
trans-1,2-Dichloroethene
Concen: 12.44 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR052.D
Acq: 16 Sep 2008 16:51

Tgt Ion: 61 Resp: 1902

Ion	Ratio	Lower	Upper
61	100		
96	75.2	55.0	82.4
98	49.0	35.6	53.4

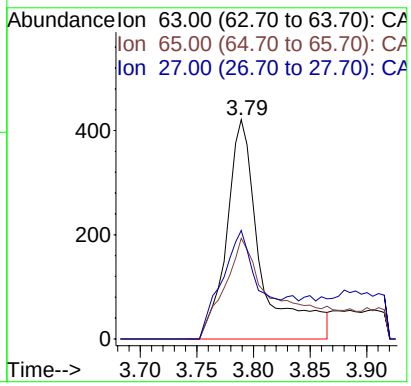


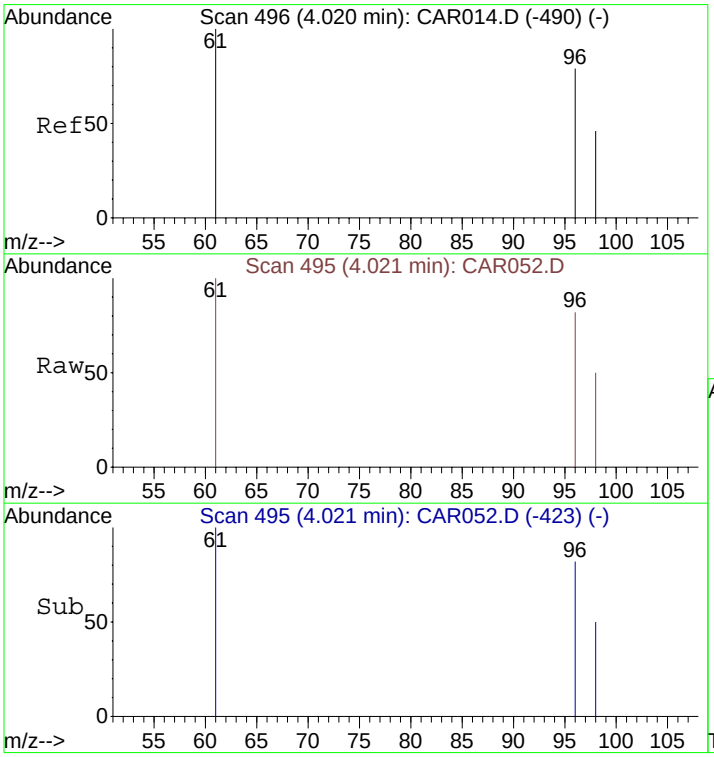


#6
1,1-Dichloroethane
Concen: 4.85 ppbv
RT: 3.79 min Scan# 449
Delta R.T. -0.00 min
Lab File: CAR052.D
Acq: 16 Sep 2008 16:51

Tgt Ion: 63 Resp: 975

Ion	Ratio	Lower	Upper
63	100		
65	71.7	23.5	35.3#
27	57.5	26.7	40.1#

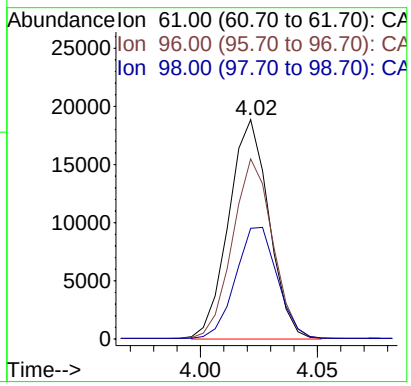


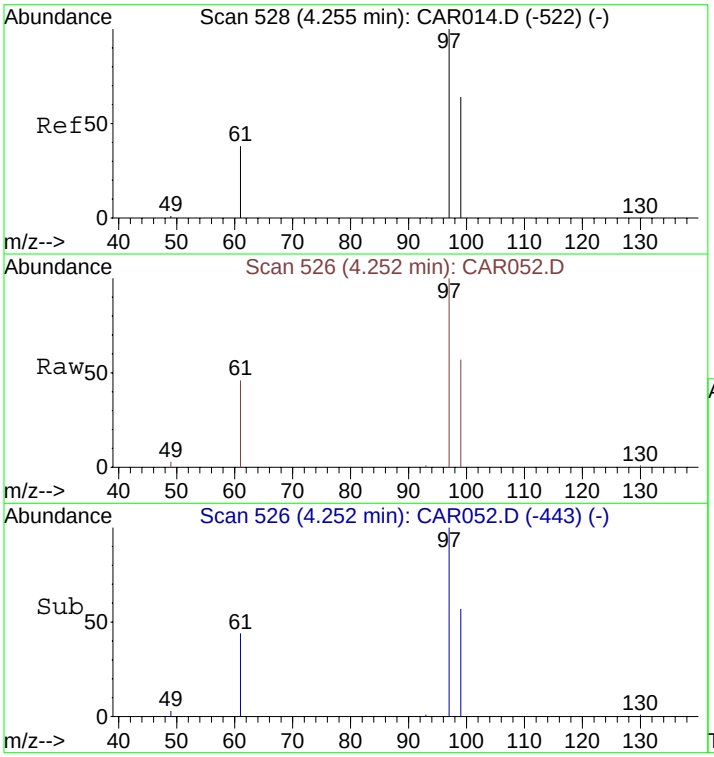


#7
cis-1,2-Dichloroethene
Concen: 147.80 ppbv m
RT: 4.02 min Scan# 495
Delta R.T. 0.00 min
Lab File: CAR052.D
Acq: 16 Sep 2008 16:51

Tgt Ion: 61 Resp: 22598

Ion	Ratio	Lower	Upper
61	100		
96	81.9	56.0	84.0
98	51.4	36.2	54.4

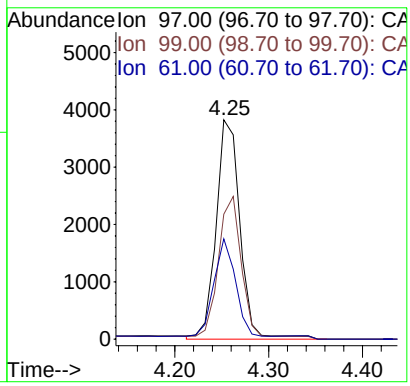


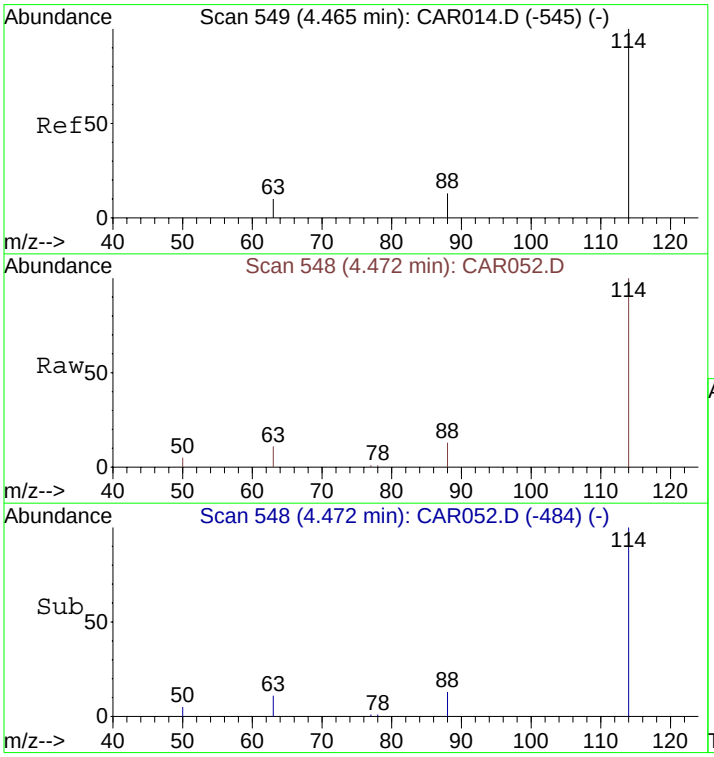


#8
1,1,1-Trichloroethane
Concen: 29.86 ppbv
RT: 4.25 min Scan# 526
Delta R.T. -0.00 min
Lab File: CAR052.D
Acq: 16 Sep 2008 16:51

Tgt Ion: 97 Resp: 6783

Ion	Ratio	Lower	Upper
97	100		
99	65.5	51.8	77.8
61	39.6	32.1	48.1

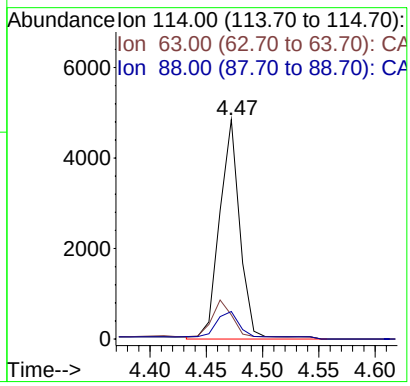


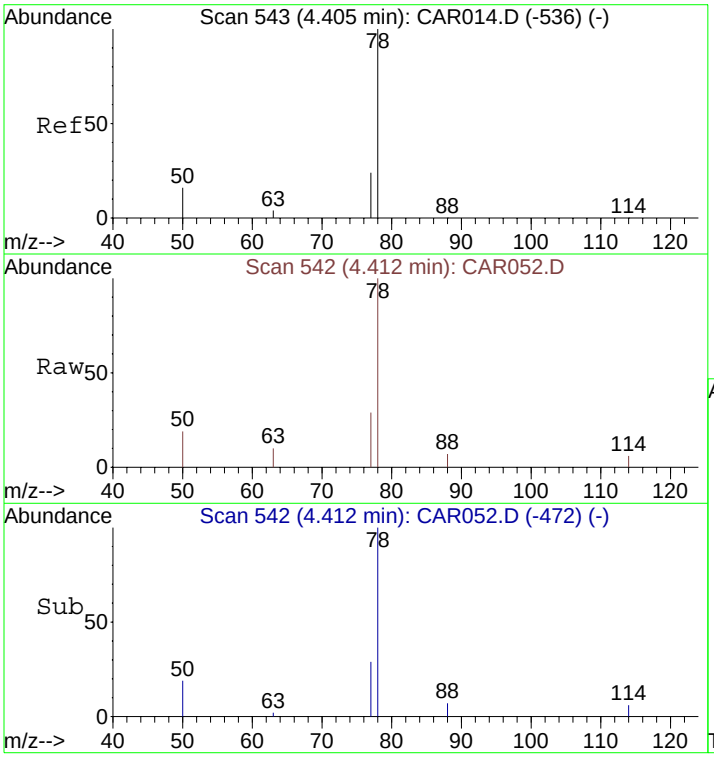


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 548
Delta R.T. 0.01 min
Lab File: CAR052.D
Acq: 16 Sep 2008 16:51

Tgt Ion:114 Resp: 5899

Ion	Ratio	Lower	Upper
114	100		
63	21.6	15.8	23.8
88	18.0	12.2	18.2

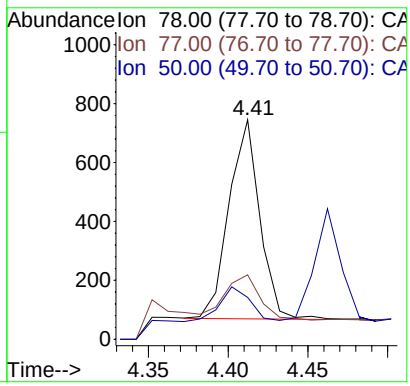


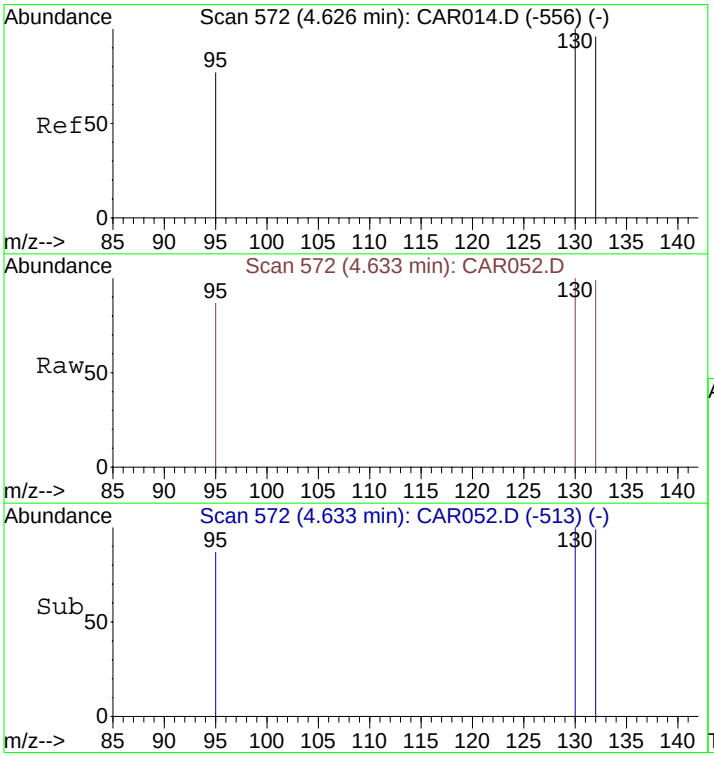


#10
Benzene
Concen: 2.54 ppbv m
RT: 4.41 min Scan# 542
Delta R.T. 0.01 min
Lab File: CAR052.D
Acq: 16 Sep 2008 16:51

Tgt Ion: 78 Resp: 911

Ion	Ratio	Lower	Upper
78	100		
77	22.0	18.6	28.0
50	17.3	16.2	24.4

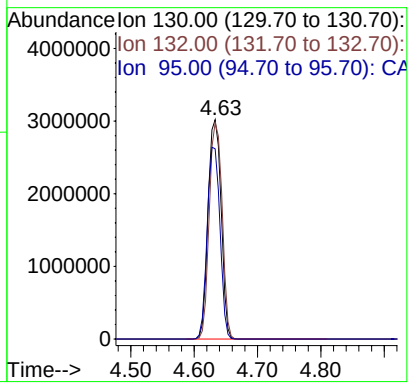


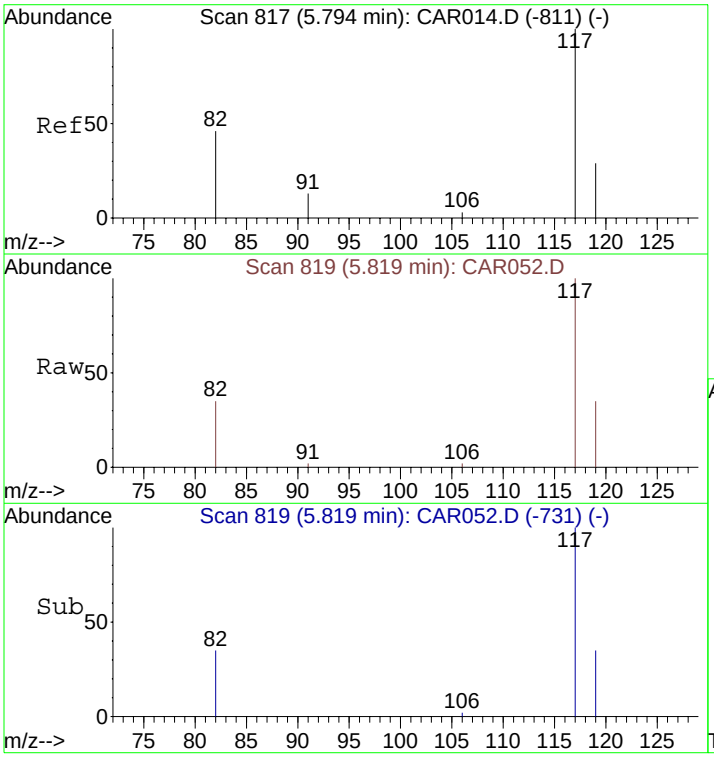


#11
Trichloroethene
Concen: 24599.52 ppbv
RT: 4.63 min Scan# 572
Delta R.T. 0.01 min
Lab File: CAR052.D
Acq: 16 Sep 2008 16:51

Tgt Ion:130 Resp: 4297155

Ion	Ratio	Lower	Upper
130	100		
132	101.6	73.8	110.6
95	89.7	72.5	108.7

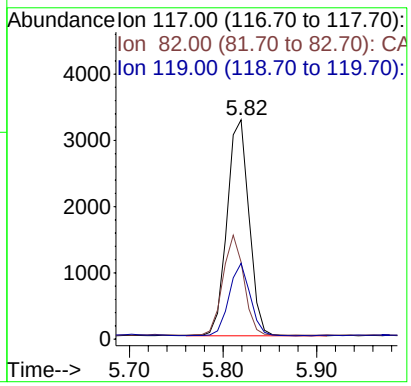


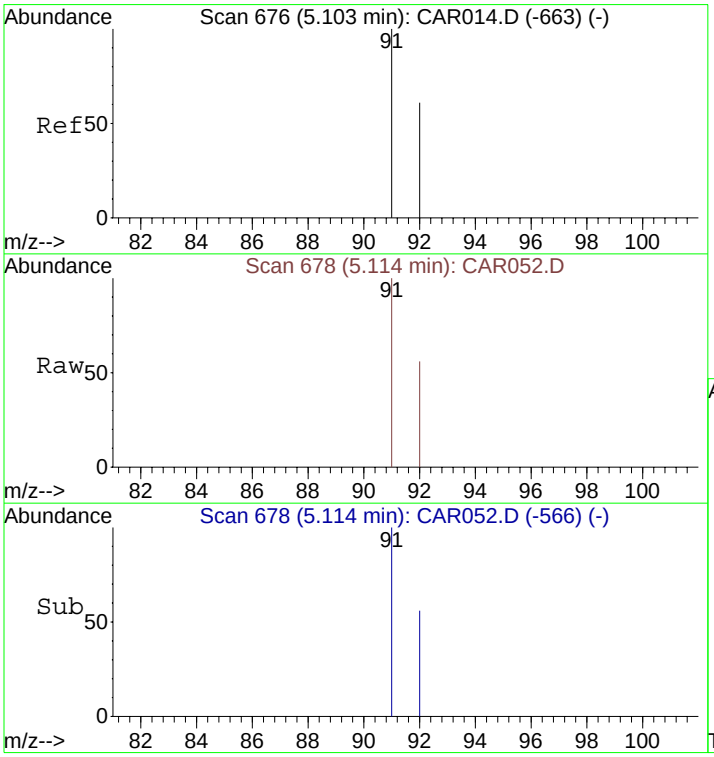


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.82 min Scan# 819
Delta R.T. 0.03 min
Lab File: CAR052.D
Acq: 16 Sep 2008 16:51

Tgt Ion:117 Resp: 5325

Ion	Ratio	Lower	Upper
117	100		
82	44.1	38.3	57.5
119	32.0	26.0	39.0

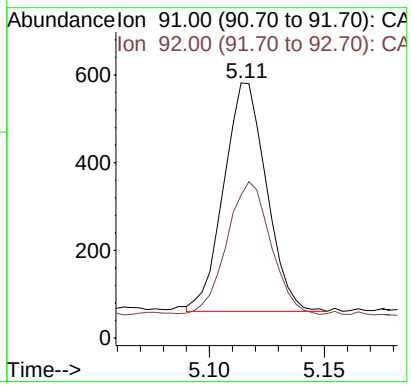


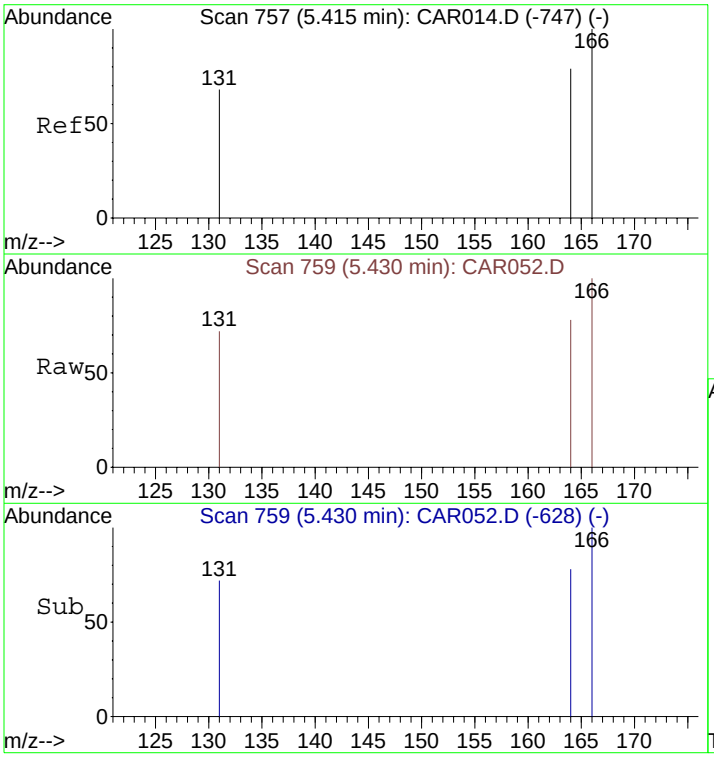


#13
Toluene
Concen: 2.08 ppbv
RT: 5.11 min Scan# 678
Delta R.T. 0.01 min
Lab File: CAR052.D
Acq: 16 Sep 2008 16:51

Tgt Ion: 91 Resp: 673

Ion	Ratio	Lower	Upper
91	100		
92	59.6	48.2	72.2

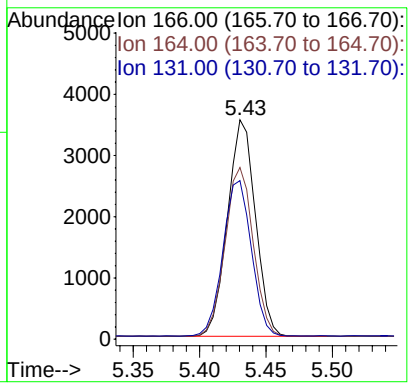




#14
Tetrachloroethene
Concen: 26.55 ppbv
RT: 5.43 min Scan# 759
Delta R.T. 0.02 min
Lab File: CAR052.D
Acq: 16 Sep 2008 16:51

Tgt Ion:166 Resp: 5165

Ion	Ratio	Lower	Upper
166	100		
164	78.6	63.1	94.7
131	73.0	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR053.D Vial: 1
Acq On : 16 Sep 2008 17:09 Operator: dlm
Sample : 51380\B7-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 16 17:42:45 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1588	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	5247	10.00 ppbv	0.01
12) Chlorobenzene-d5	5.82	117	5250	10.00 ppbv	0.03

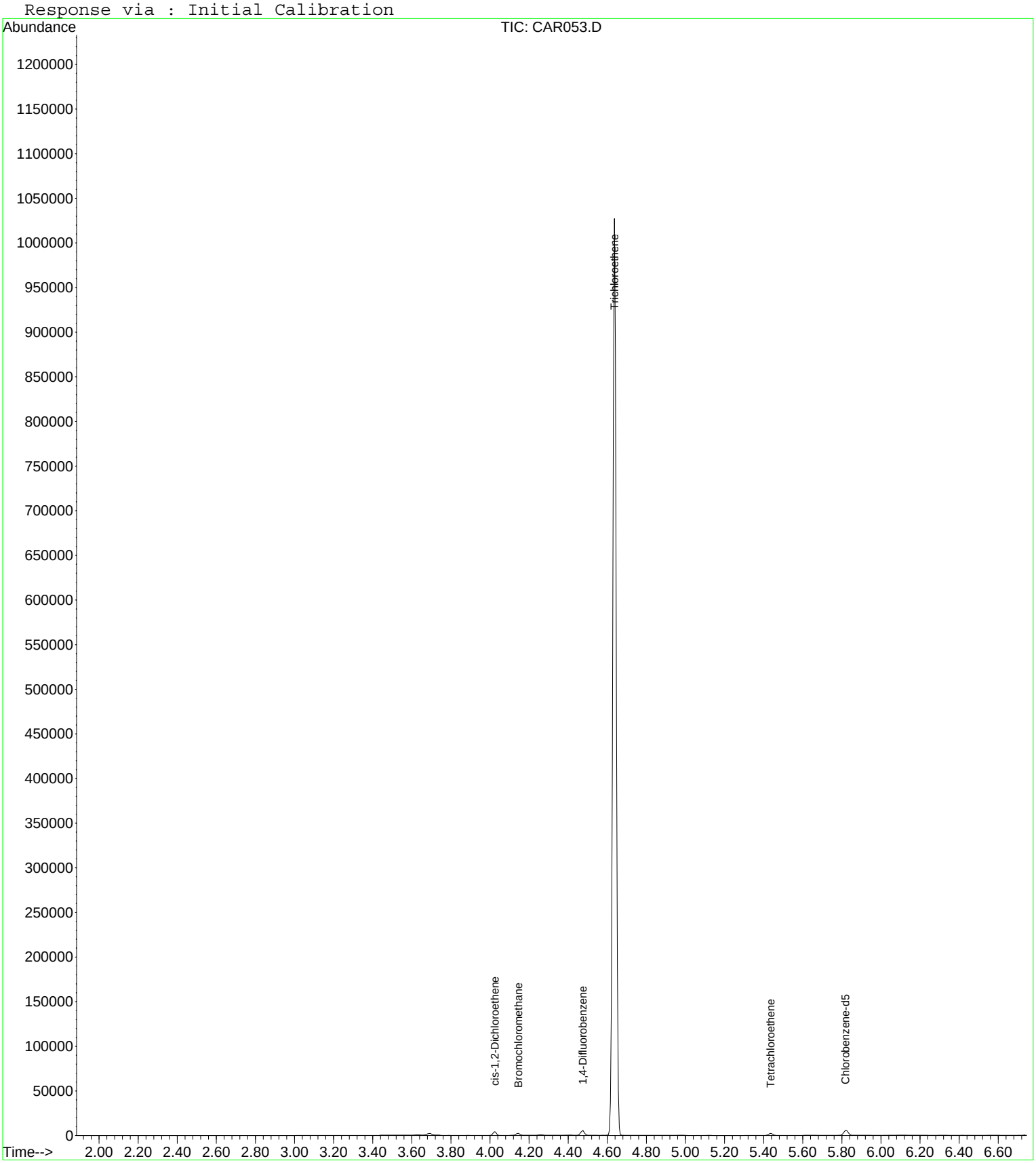
Target Compounds					Qvalue
5) trans-1,2-Dichloroethene	3.62	61	252	18.89 ppbv	91
7) cis-1,2-Dichloroethene	4.02	61	2205	165.28 ppbv	86
8) 1,1,1-Trichloroethane	4.26	97	576	29.06 ppbv	98
10) Benzene	4.41	78	370m	11.59 ppbv	
11) Trichloroethene	4.64	130	464174	29874.02 ppbv	94
14) Tetrachloroethene	5.44	166	1358	70.82 ppbv	97

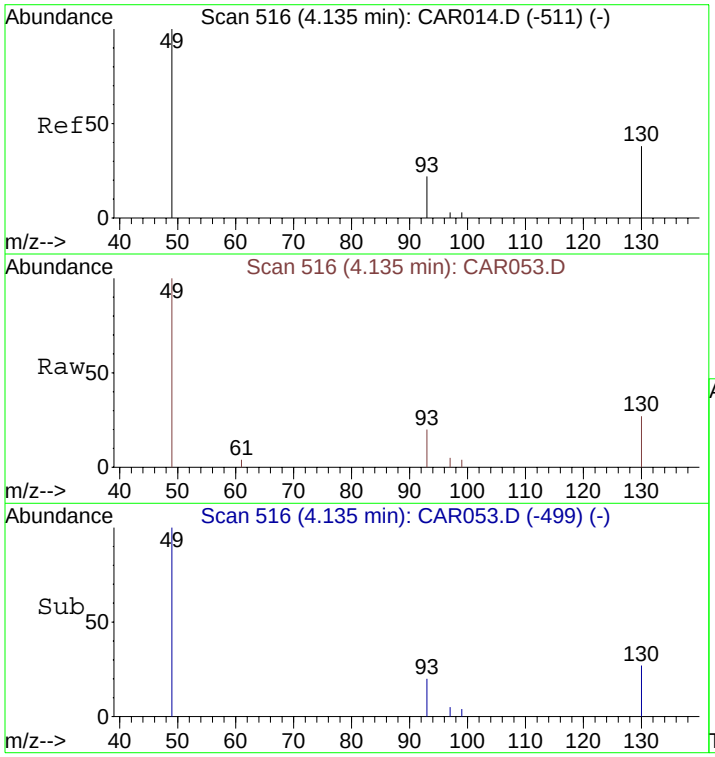
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR053.D Vial: 1
Acq On : 16 Sep 2008 17:09 Operator: dlm
Sample : 51380\B7-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 29 14:51 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 10:37:21 2008
Response via : Initial Calibration

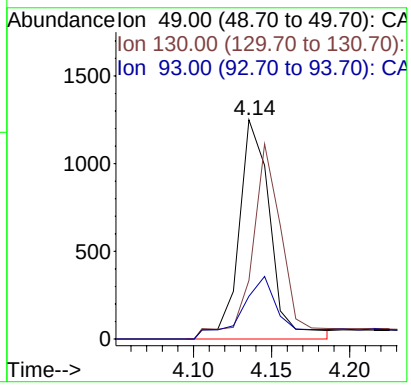


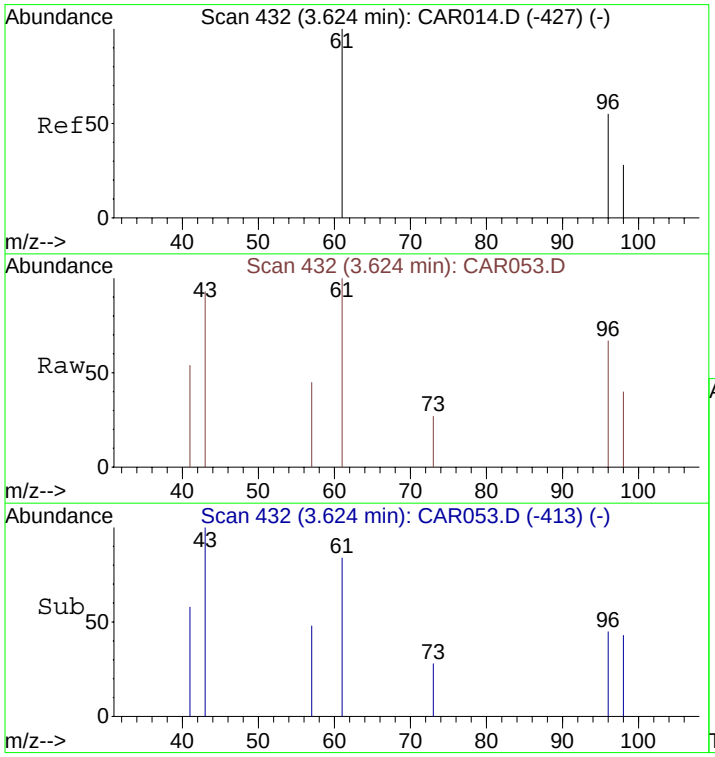


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR053.D
Acq: 16 Sep 2008 17:09

Tgt Ion: 49 Resp: 1588

Ion	Ratio	Lower	Upper
49	100		
130	88.5	65.1	97.7
93	36.6	33.8	50.6

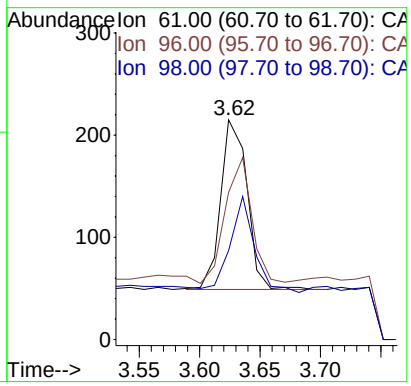


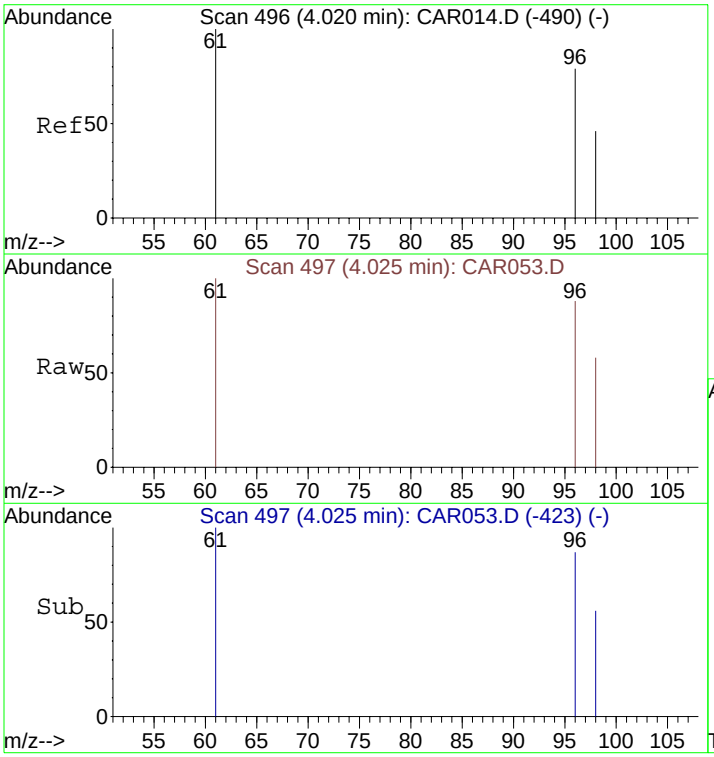


#5
trans-1,2-Dichloroethene
Concen: 18.89 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR053.D
Acq: 16 Sep 2008 17:09

Tgt Ion: 61 Resp: 252

Ion	Ratio	Lower	Upper
61	100		
96	74.2	55.0	82.4
98	52.0	35.6	53.4

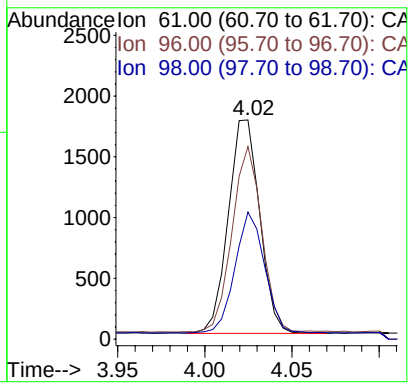


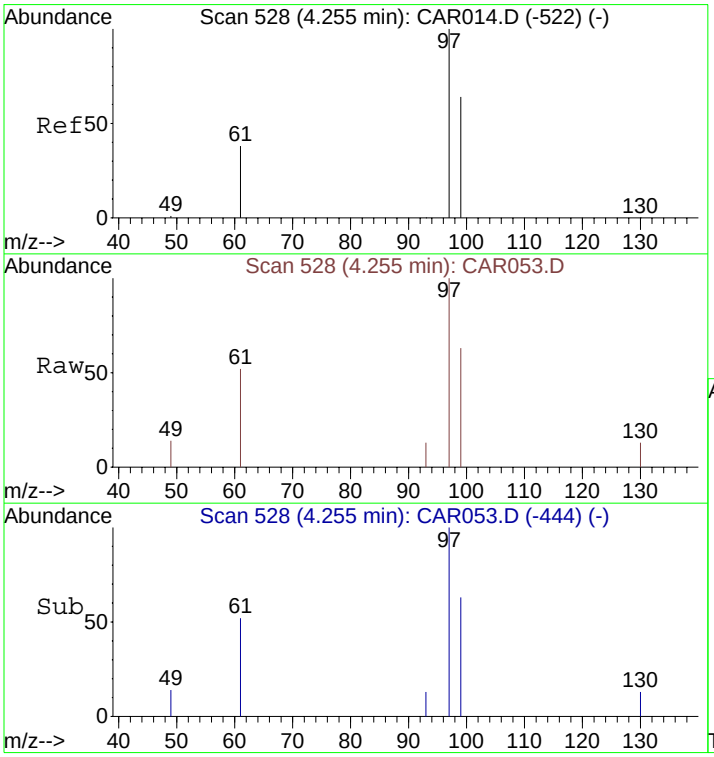


#7
cis-1,2-Dichloroethene
Concen: 165.28 ppbv
RT: 4.02 min Scan# 497
Delta R.T. 0.01 min
Lab File: CAR053.D
Acq: 16 Sep 2008 17:09

Tgt Ion: 61 Resp: 2205

Ion	Ratio	Lower	Upper
61	100		
96	82.3	56.0	84.0
98	53.2	36.2	54.4

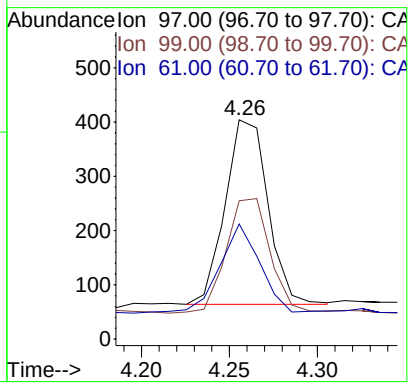


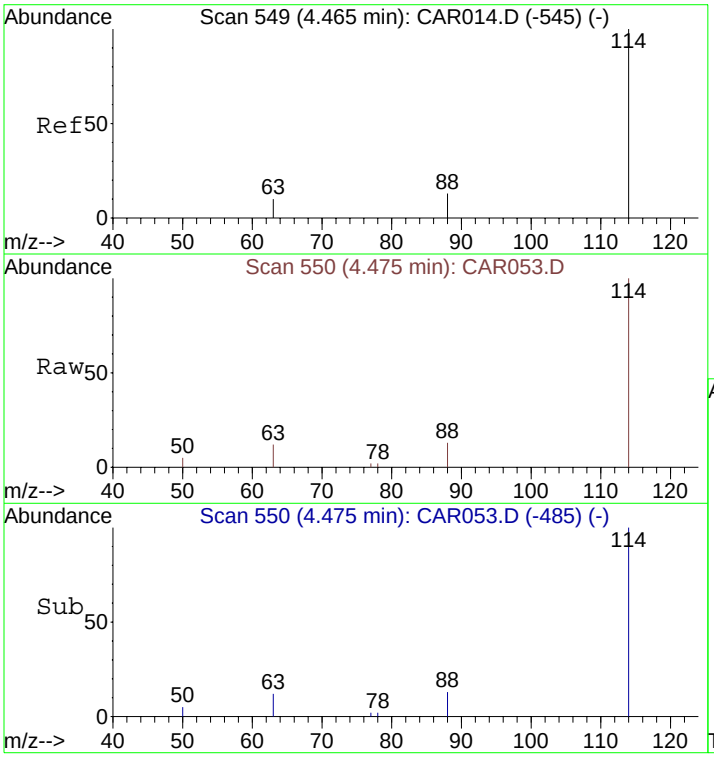


#8
1,1,1-Trichloroethane
Concen: 29.06 ppbv
RT: 4.26 min Scan# 528
Delta R.T. 0.00 min
Lab File: CAR053.D
Acq: 16 Sep 2008 17:09

Tgt Ion: 97 Resp: 576

Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.8	77.8
61	42.9	32.1	48.1

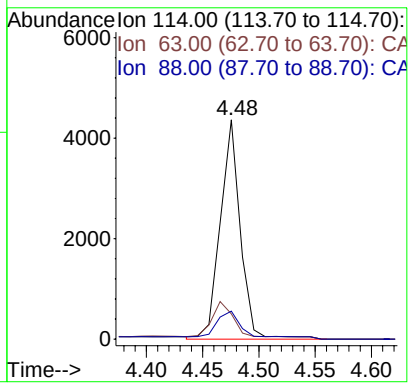


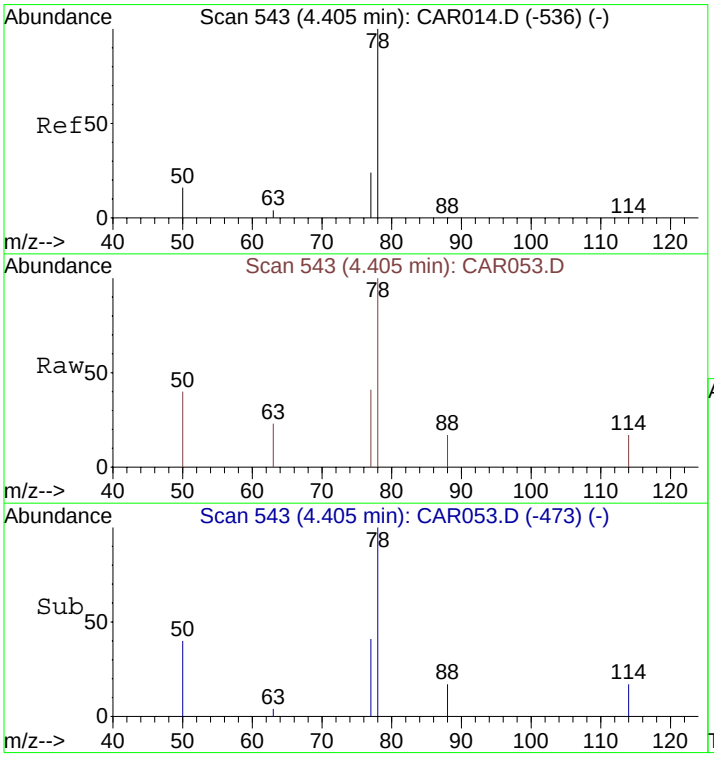


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR053.D
Acq: 16 Sep 2008 17:09

Tgt Ion:114 Resp: 5247

Ion	Ratio	Lower	Upper
114	100		
63	22.4	15.8	23.8
88	18.2	12.2	18.2

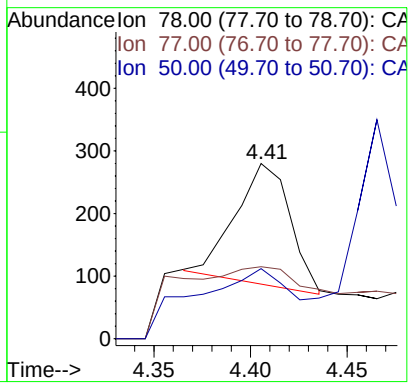


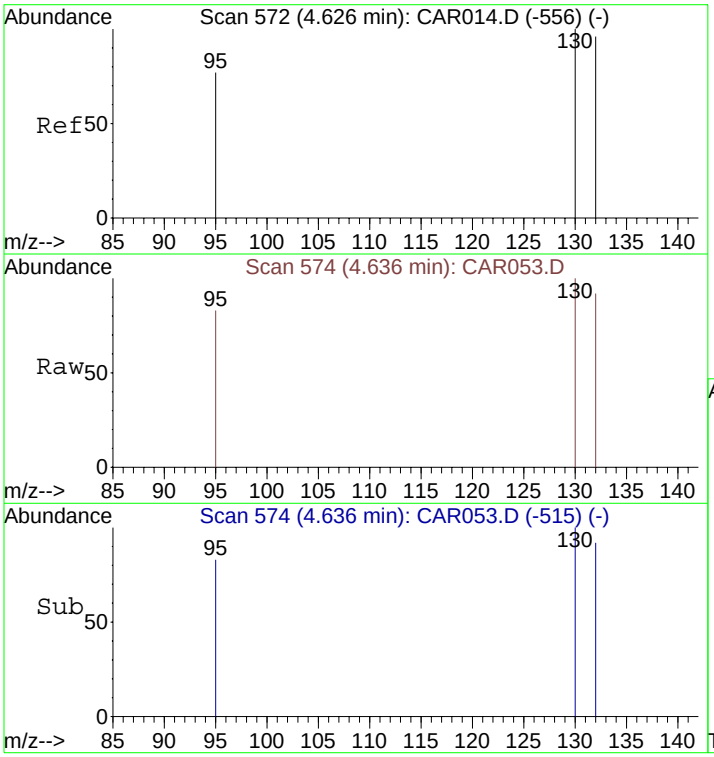


#10
Benzene
Concen: 11.59 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR053.D
Acq: 16 Sep 2008 17:09

Tgt Ion: 78 Resp: 370

Ion	Ratio	Lower	Upper
78	100		
77	20.5	18.6	28.0
50	12.4	16.2	24.4#

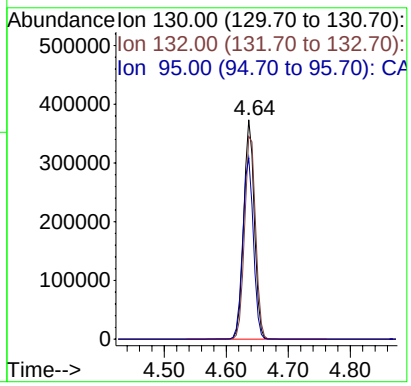


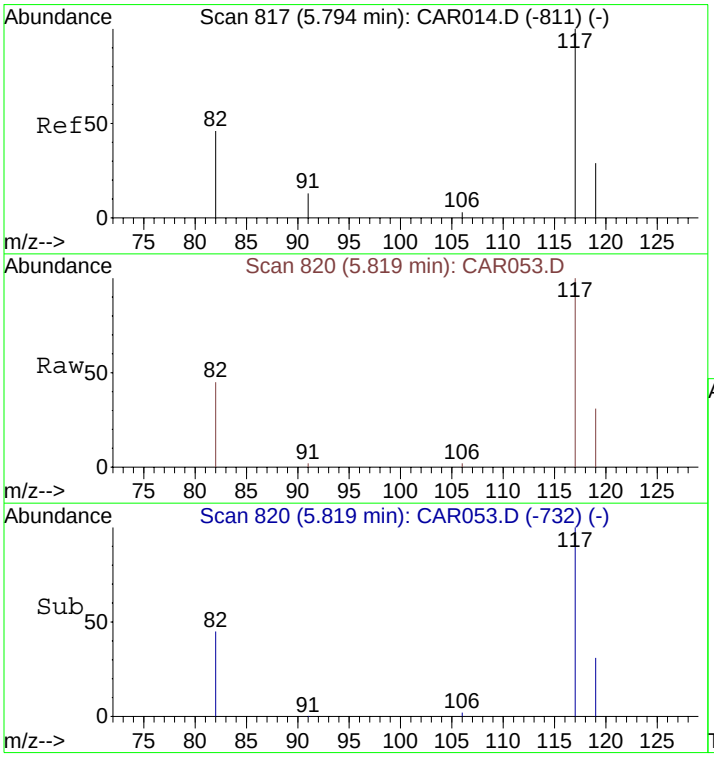


#11
Trichloroethene
Concen: 29874.02 ppbv
RT: 4.64 min Scan# 574
Delta R.T. 0.01 min
Lab File: CAR053.D
Acq: 16 Sep 2008 17:09

Tgt Ion:130 Resp: 464174

Ion	Ratio	Lower	Upper
130	100		
132	96.5	73.8	110.6
95	83.9	72.5	108.7

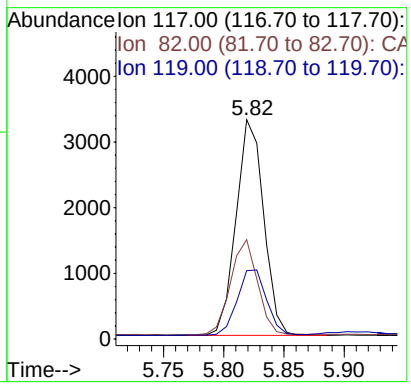


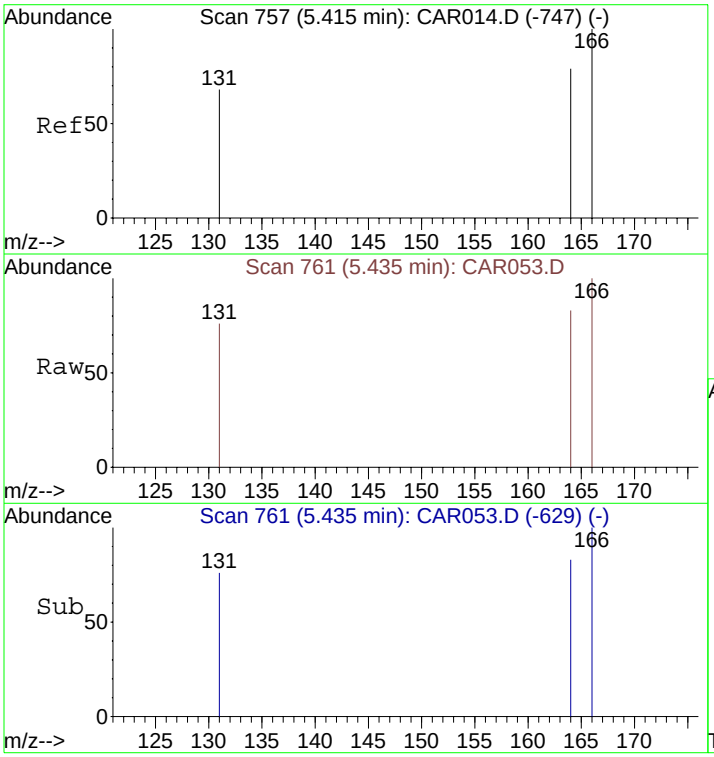


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.82 min Scan# 820
Delta R.T. 0.03 min
Lab File: CAR053.D
Acq: 16 Sep 2008 17:09

Tgt Ion:117 Resp: 5250

Ion	Ratio	Lower	Upper
117	100		
82	43.3	38.3	57.5
119	32.1	26.0	39.0

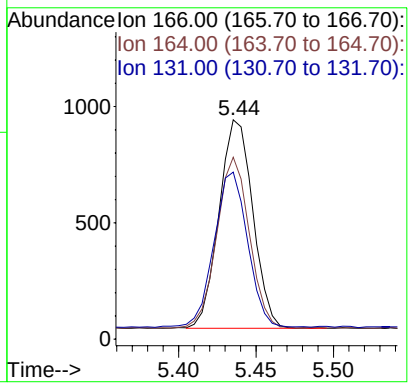




#14
Tetrachloroethene
Concen: 70.82 ppbv
RT: 5.44 min Scan# 761
Delta R.T. 0.02 min
Lab File: CAR053.D
Acq: 16 Sep 2008 17:09

Tgt Ion:166 Resp: 1358

Ion	Ratio	Lower	Upper
166	100		
164	79.3	63.1	94.7
131	73.1	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR054.D Vial: 1
Acq On : 16 Sep 2008 17:20 Operator: dlm
Sample : 51381\B8-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 16 17:43:16 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1636	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	5482	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.81	117	5061	10.00 ppbv	0.02

Target Compounds					Qvalue
3) 1,1-Dichloroethene	3.27	61	245	16.76 ppbv	89
5) trans-1,2-Dichloroethene	3.62	61	4109	298.93 ppbv	94
7) cis-1,2-Dichloroethene	4.02	61	256265	18645.39 ppbv	98
8) 1,1,1-Trichloroethane	4.26	97	439m	21.50 ppbv	
10) Benzene	4.41	78	321m	9.63 ppbv	
11) Trichloroethene	4.63	130	2345732	144498.50 ppbv *	94
14) Tetrachloroethene	5.43	166	2609	141.13 ppbv	96

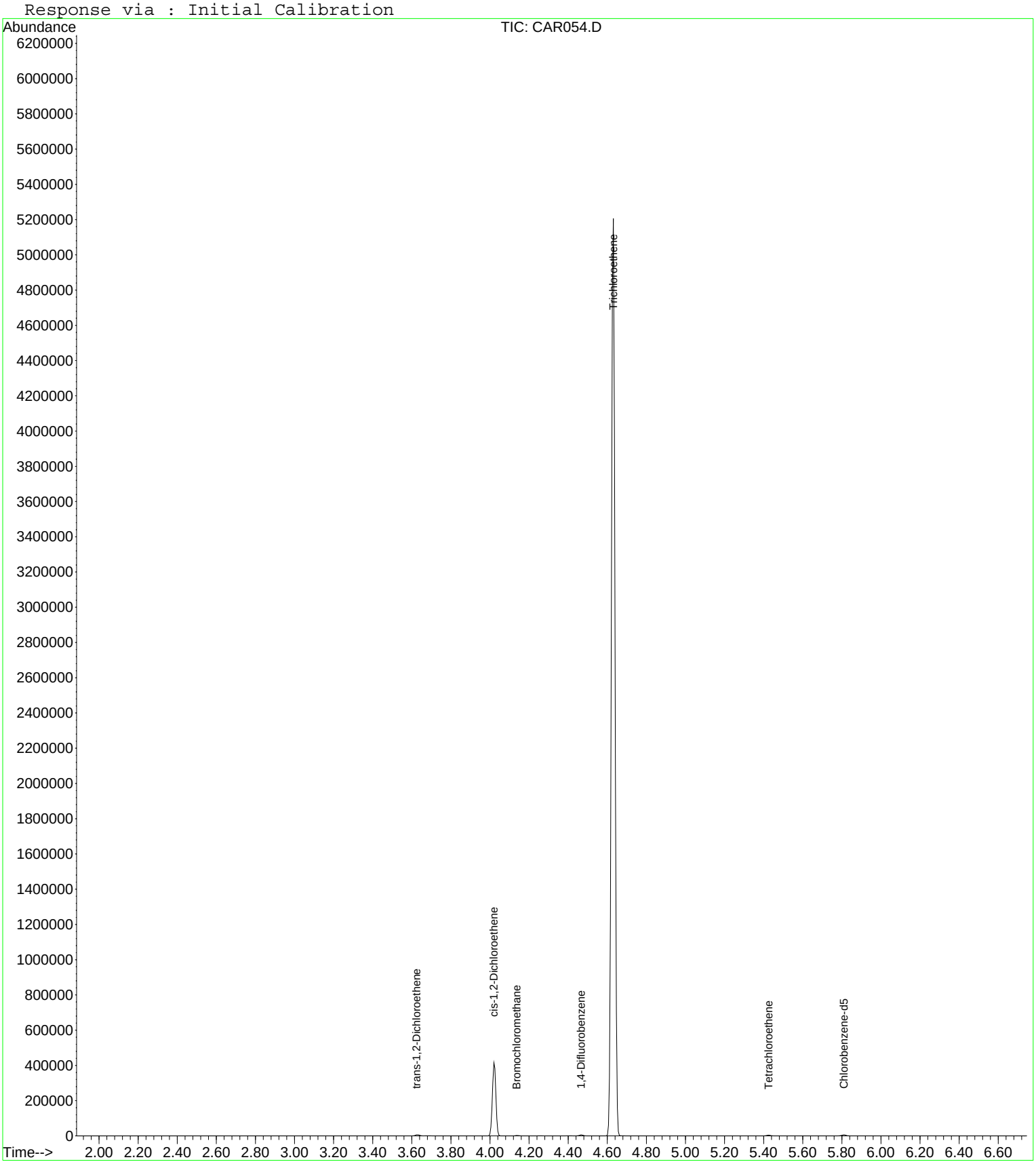
* Value reported from file CAR095 [illegible]

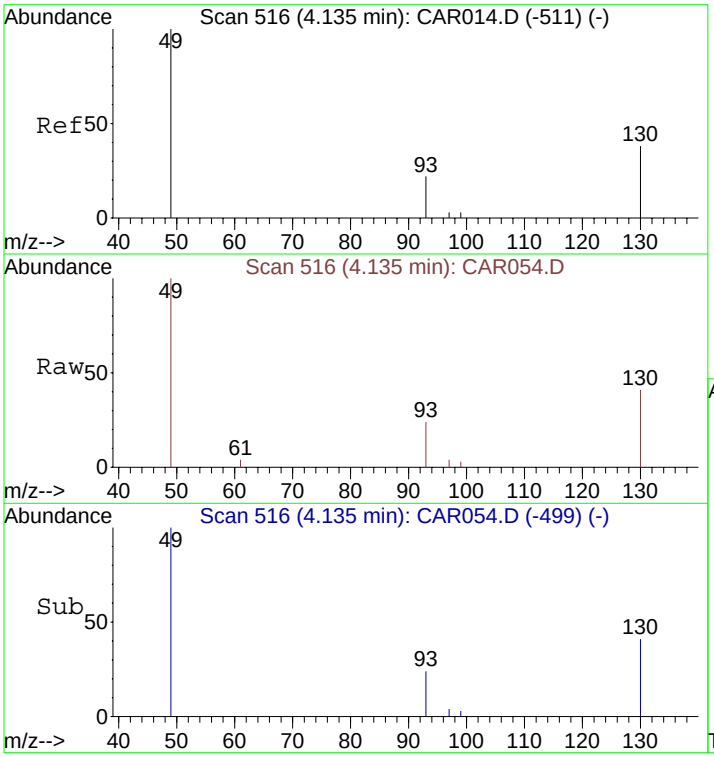
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR054.D Vial: 1
Acq On : 16 Sep 2008 17:20 Operator: dlm
Sample : 51381\B8-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:45 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Thu Oct 02 13:10:18 2008
Response via : Initial Calibration

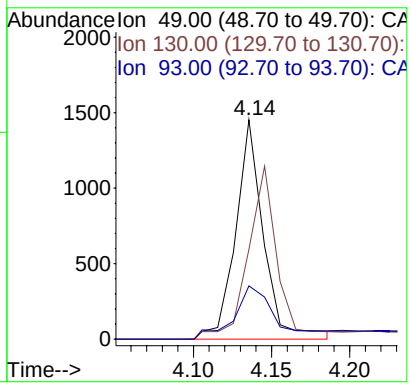


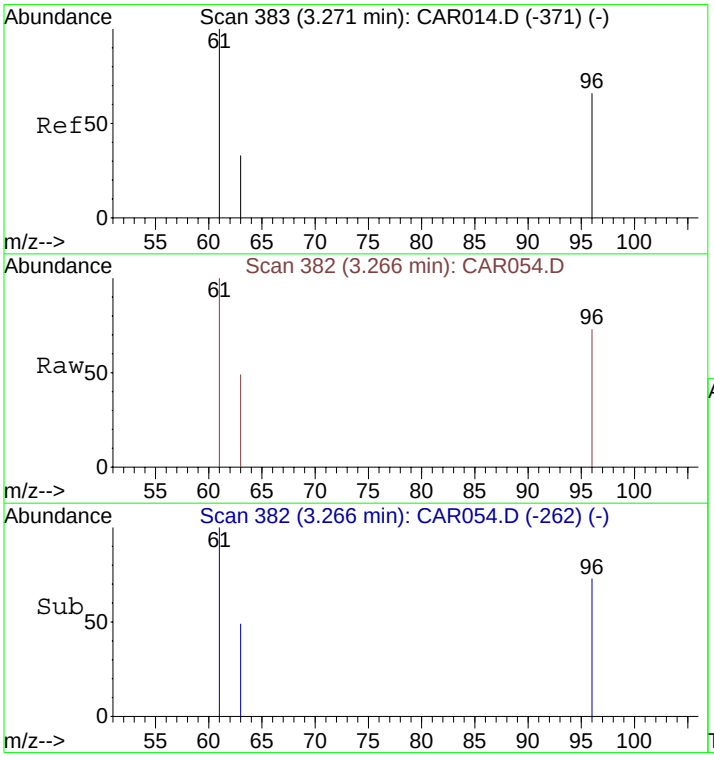


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR054.D
Acq: 16 Sep 2008 17:20

Tgt Ion: 49 Resp: 1636

Ion	Ratio	Lower	Upper
49	100		
130	84.5	65.1	97.7
93	34.5	33.8	50.6

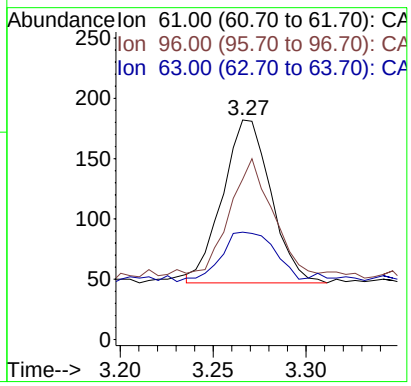


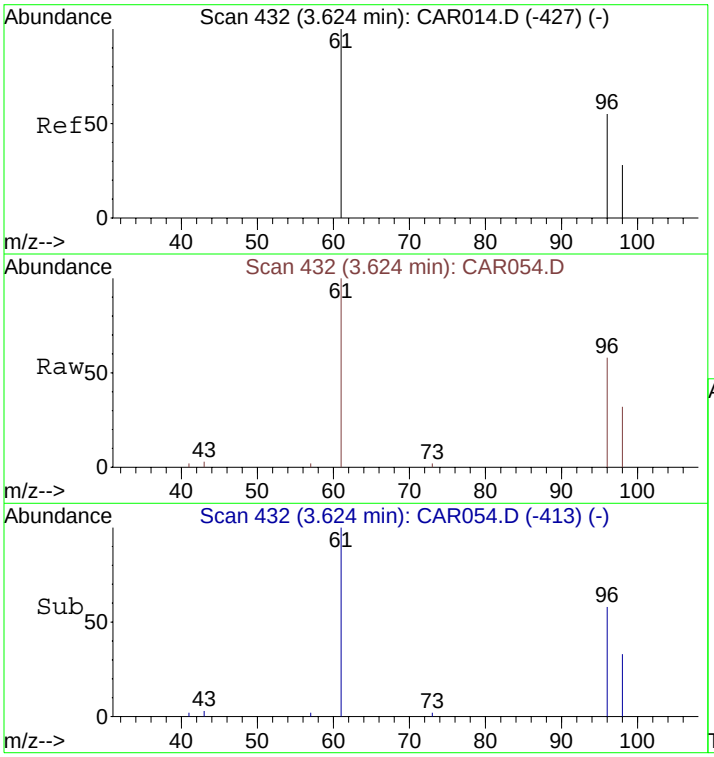


#3
1,1-Dichloroethene
Concen: 16.76 ppbv
RT: 3.27 min Scan# 382
Delta R.T. -0.00 min
Lab File: CAR054.D
Acq: 16 Sep 2008 17:20

Tgt Ion: 61 Resp: 245

Ion	Ratio	Lower	Upper
61	100		
96	68.2	45.7	68.5
63	29.0	25.0	37.4

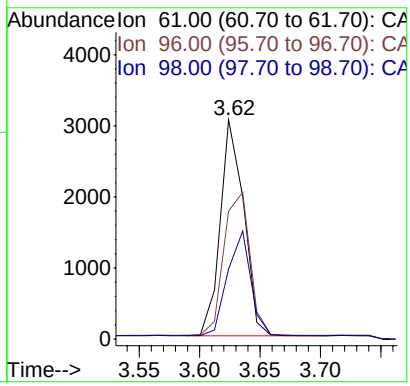


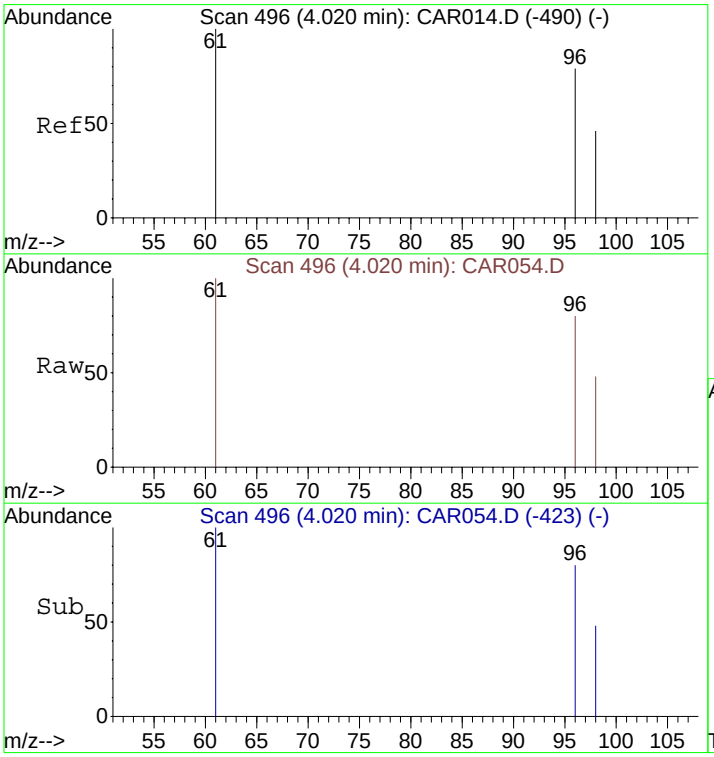


#5
trans-1,2-Dichloroethene
Concen: 298.93 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR054.D
Acq: 16 Sep 2008 17:20

Tgt Ion: 61 Resp: 4109

Ion	Ratio	Lower	Upper
61	100		
96	73.4	55.0	82.4
98	48.1	35.6	53.4

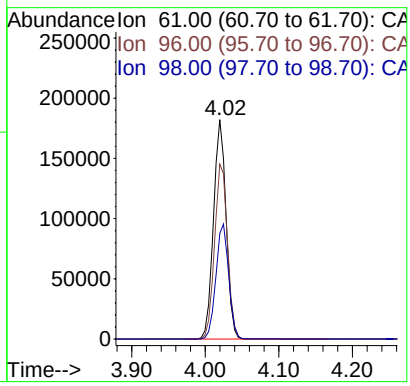


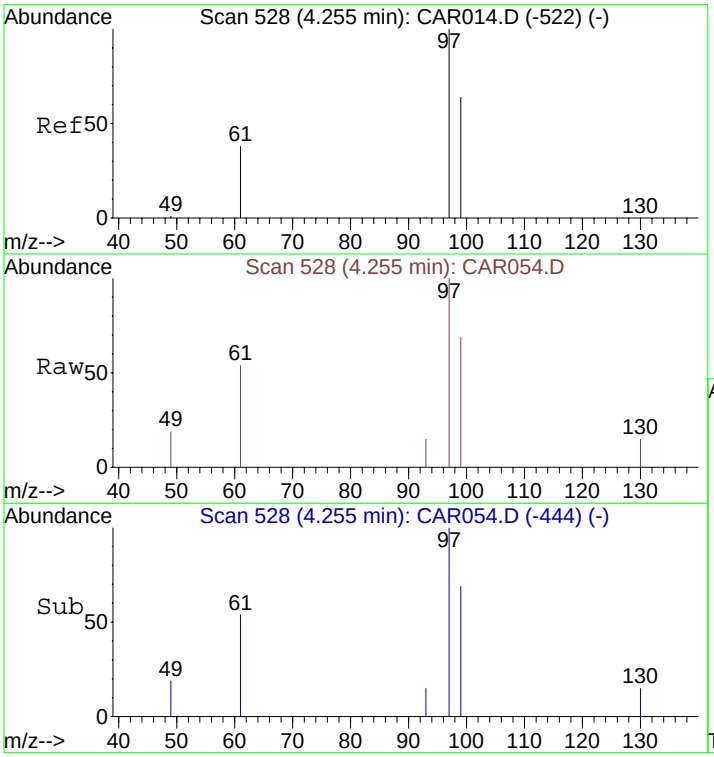


#7
cis-1,2-Dichloroethene
Concen: 18645.39 ppbv
RT: 4.02 min Scan# 496
Delta R.T. 0.00 min
Lab File: CAR054.D
Acq: 16 Sep 2008 17:20

Tgt Ion: 61 Resp: 256265

Ion	Ratio	Lower	Upper
61	100		
96	71.8	56.0	84.0
98	46.8	36.2	54.4

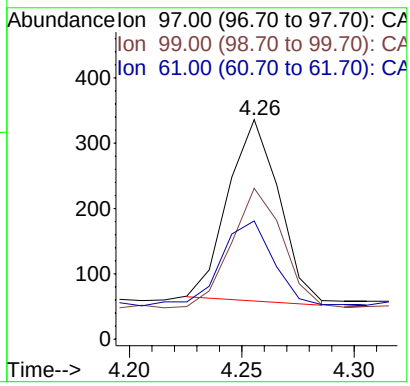


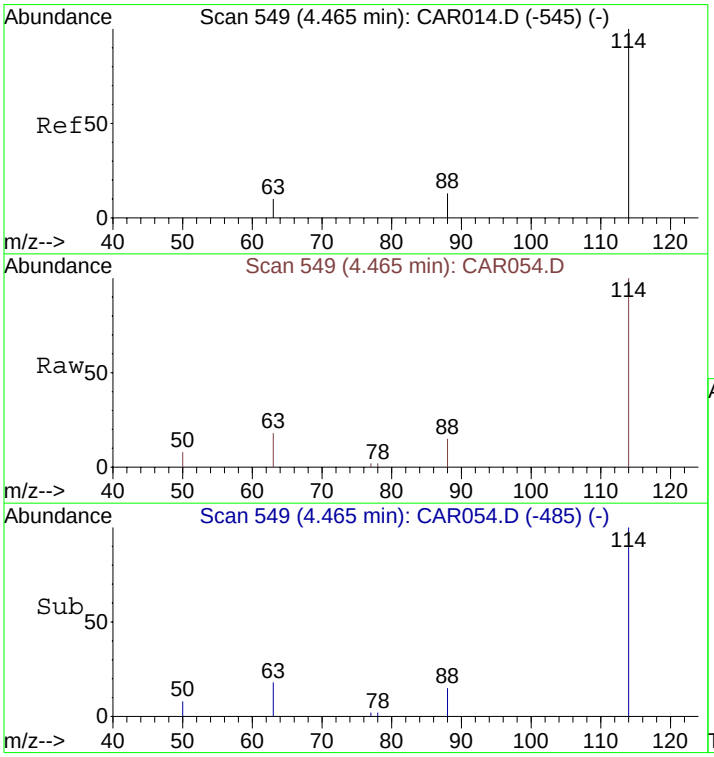


#8
1,1,1-Trichloroethane
Concen: 21.50 ppbv m
RT: 4.26 min Scan# 528
Delta R.T. 0.00 min
Lab File: CAR054.D
Acq: 16 Sep 2008 17:20

Tgt Ion: 97 Resp: 439

Ion	Ratio	Lower	Upper
97	100		
99	67.0	51.8	77.8
61	46.0	32.1	48.1

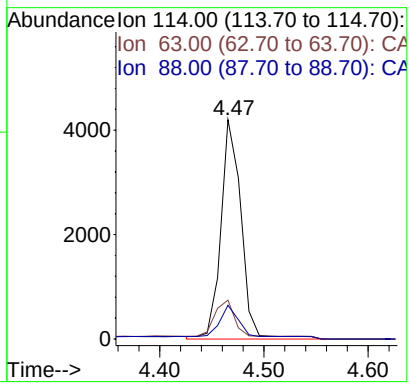


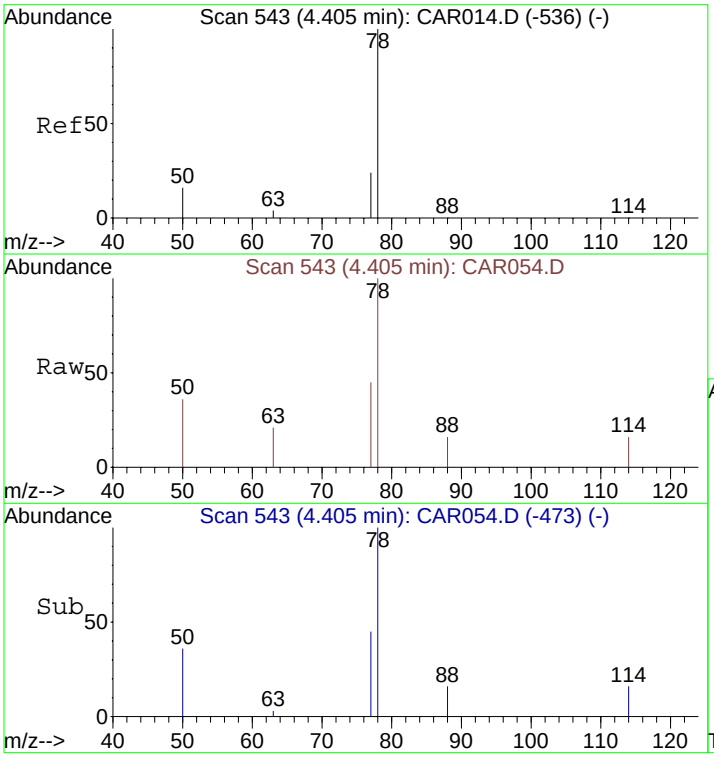


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. 0.00 min
Lab File: CAR054.D
Acq: 16 Sep 2008 17:20

Tgt Ion:114 Resp: 5482

Ion	Ratio	Lower	Upper
114	100		
63	17.4	15.8	23.8
88	13.9	12.2	18.2

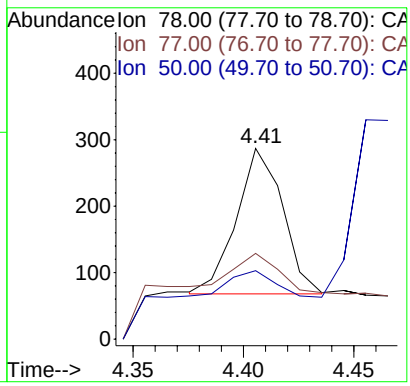


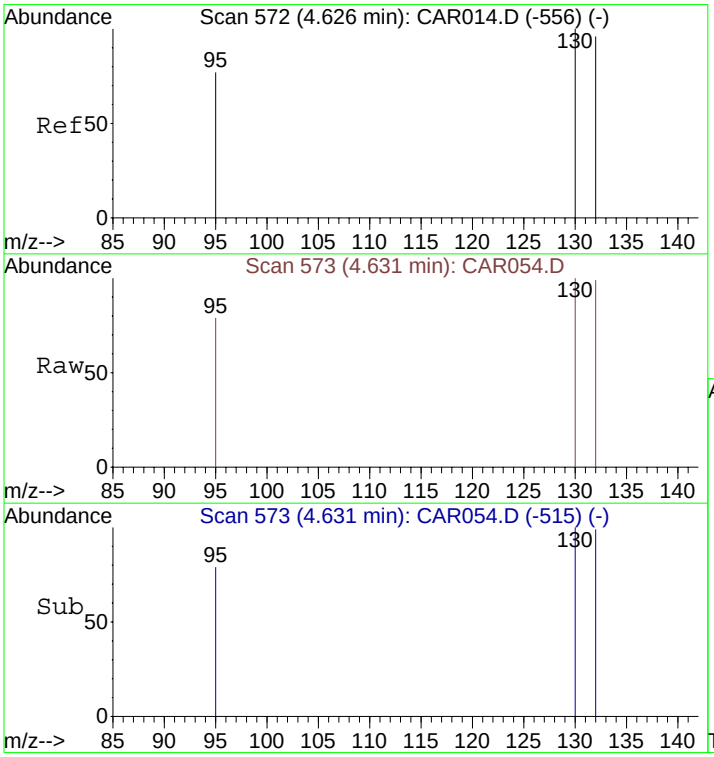


#10
Benzene
Concen: 9.63 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR054.D
Acq: 16 Sep 2008 17:20

Tgt Ion: 78 Resp: 321

Ion	Ratio	Lower	Upper
78	100		
77	24.9	18.6	28.0
50	17.1	16.2	24.4

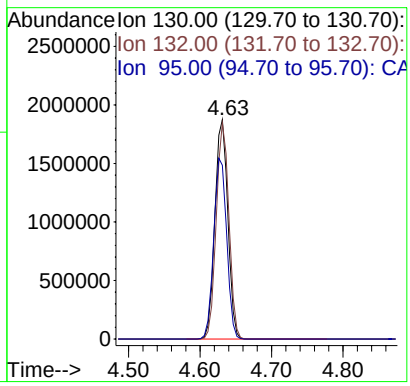


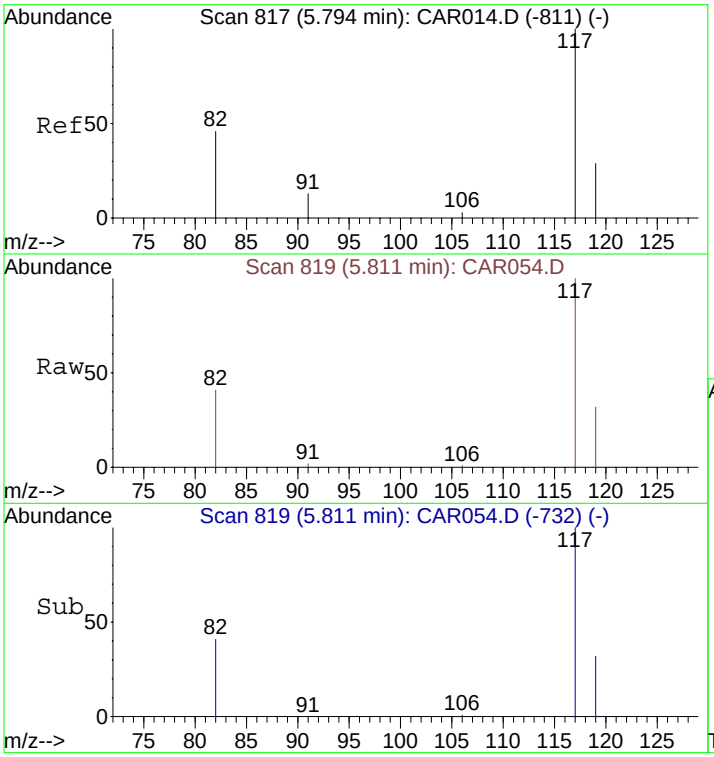


#11
Trichloroethene
Concen: 144498.50 ppbv
RT: 4.63 min Scan# 573
Delta R.T. 0.01 min
Lab File: CAR054.D
Acq: 16 Sep 2008 17:20

Tgt Ion:130 Resp: 2345732

Ion	Ratio	Lower	Upper
130	100		
132	96.8	73.8	110.6
95	83.1	72.5	108.7

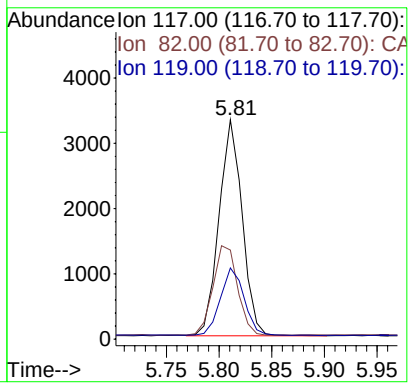


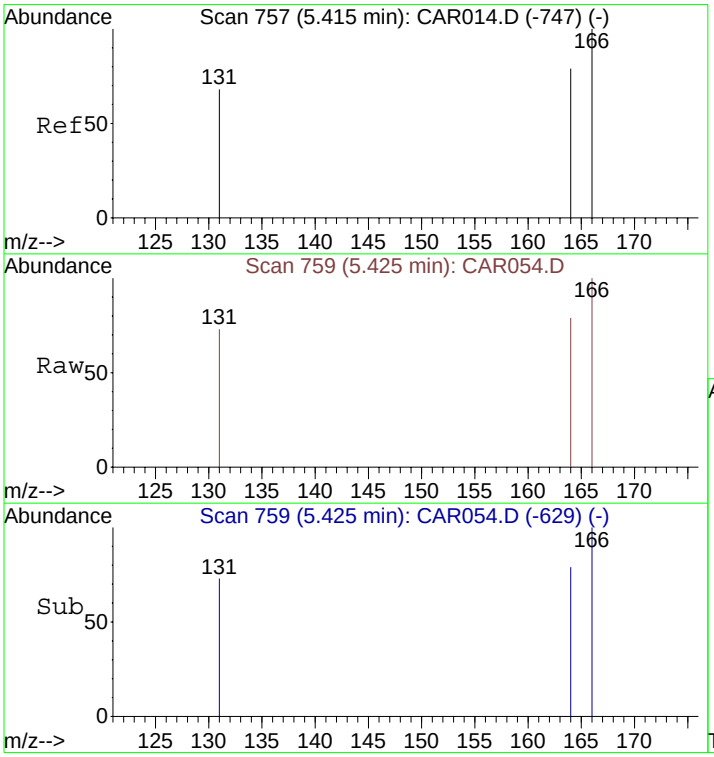


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.81 min Scan# 819
Delta R.T. 0.02 min
Lab File: CAR054.D
Acq: 16 Sep 2008 17:20

Tgt Ion:117 Resp: 5061

Ion	Ratio	Lower	Upper
117	100		
82	44.1	38.3	57.5
119	32.2	26.0	39.0

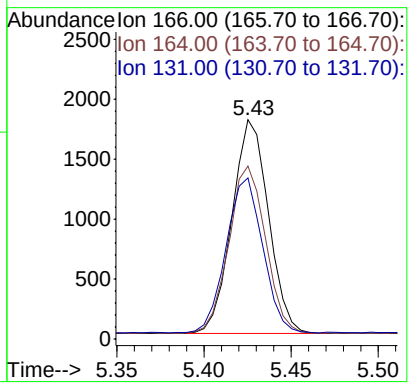




#14
Tetrachloroethene
Concen: 141.13 ppbv
RT: 5.43 min Scan# 759
Delta R.T. 0.01 min
Lab File: CAR054.D
Acq: 16 Sep 2008 17:20

Tgt Ion:166 Resp: 2609

Ion	Ratio	Lower	Upper
166	100		
164	78.7	63.1	94.7
131	72.7	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR055.D Vial: 1
Acq On : 16 Sep 2008 17:33 Operator: dlm
Sample : 51383\B4-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 16 17:44:56 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.14	49	1542	10.00	ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	5208	10.00	ppbv	0.00
12) Chlorobenzene-d5	5.79	117	4875	10.00	ppbv	0.00

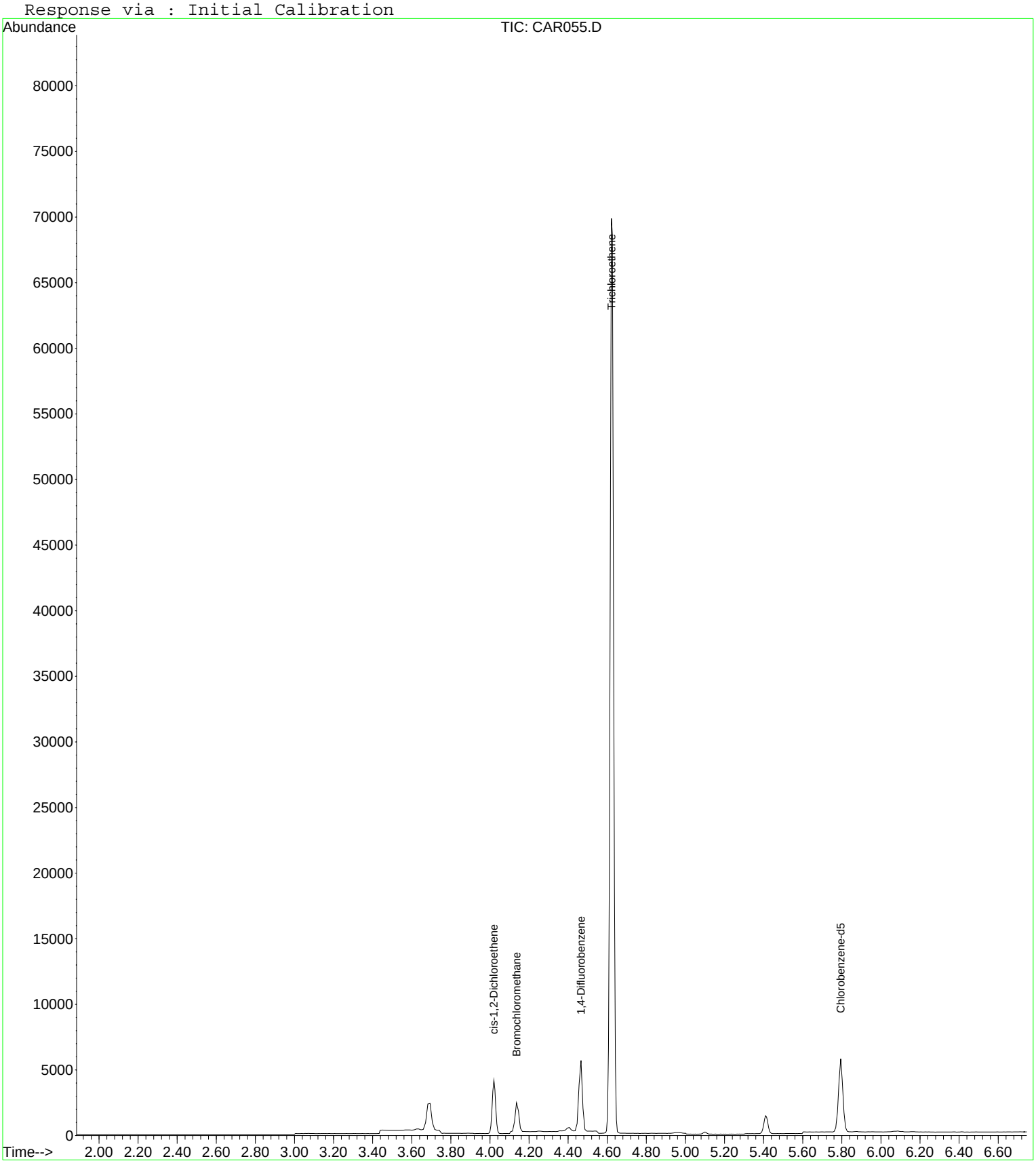
Target Compounds						Qvalue
5) trans-1,2-Dichloroethene	3.62	61	69	5.33	ppbv #	80
7) cis-1,2-Dichloroethene	4.02	61	2082	160.72	ppbv	86
10) Benzene	4.41	78	266m	8.40	ppbv	
11) Trichloroethene	4.62	130	30760	1994.52	ppbv	97
14) Tetrachloroethene	5.42	166	811	45.54	ppbv	99

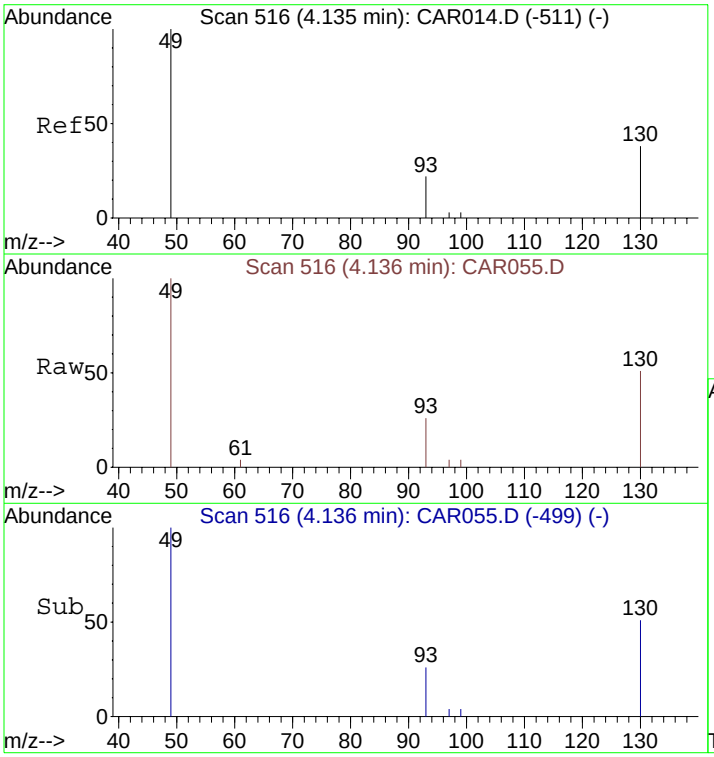
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR055.D Vial: 1
Acq On : 16 Sep 2008 17:33 Operator: dlm
Sample : 51383\B4-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:54 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Thu Oct 02 13:10:18 2008
Response via : Initial Calibration

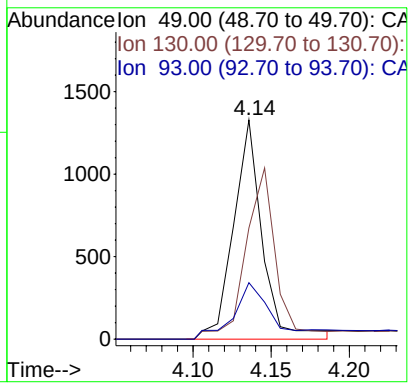


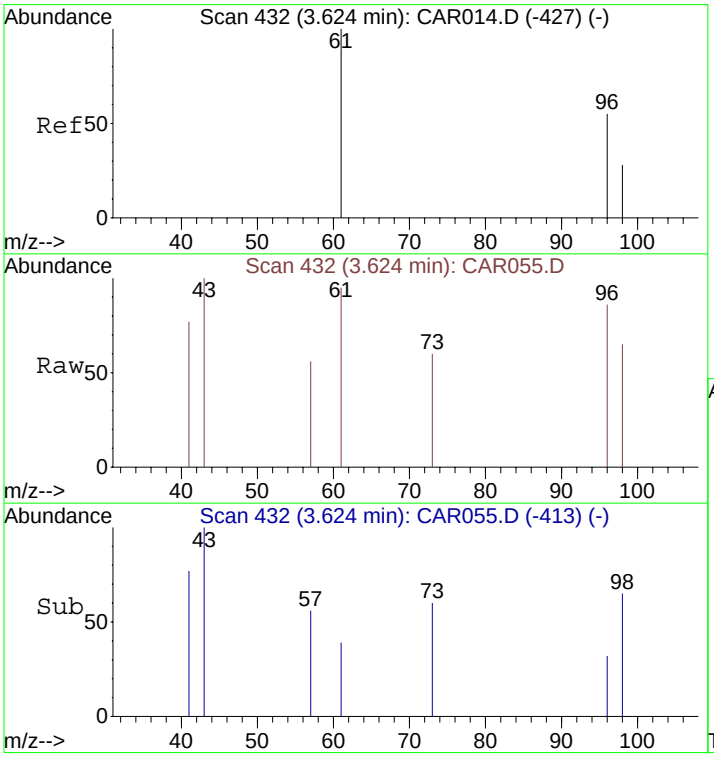


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR055.D
Acq: 16 Sep 2008 17:33

Tgt Ion: 49 Resp: 1542

Ion	Ratio	Lower	Upper
49	100		
130	82.3	65.1	97.7
93	38.3	33.8	50.6

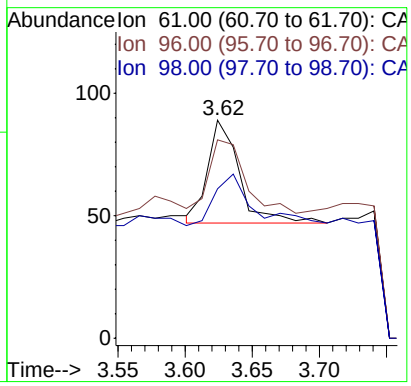


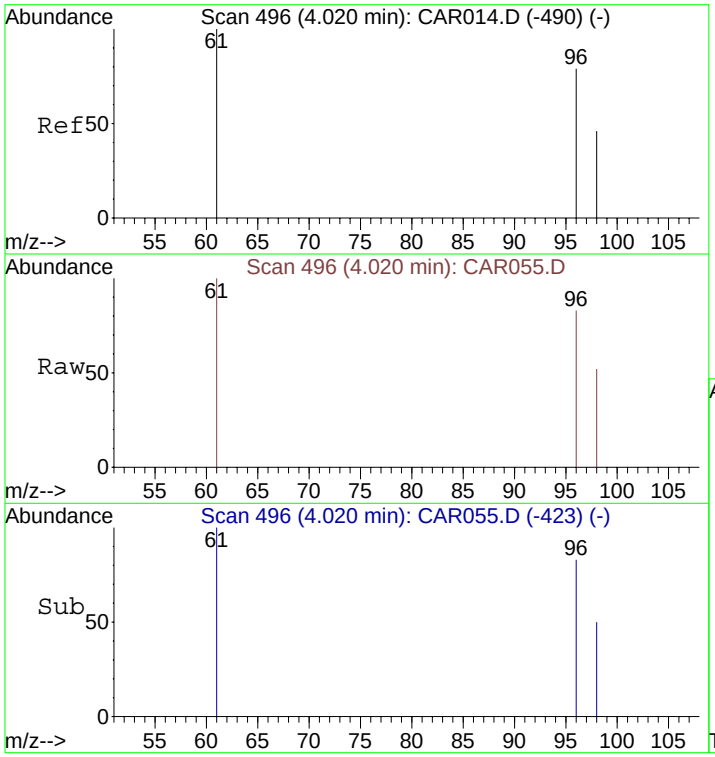


#5
trans-1,2-Dichloroethene
Concen: 5.33 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR055.D
Acq: 16 Sep 2008 17:33

Tgt Ion: 61 Resp: 69

Ion	Ratio	Lower	Upper
61	100		
96	81.2	55.0	82.4
98	62.3	35.6	53.4#

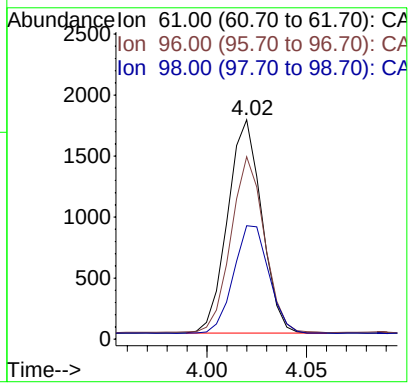


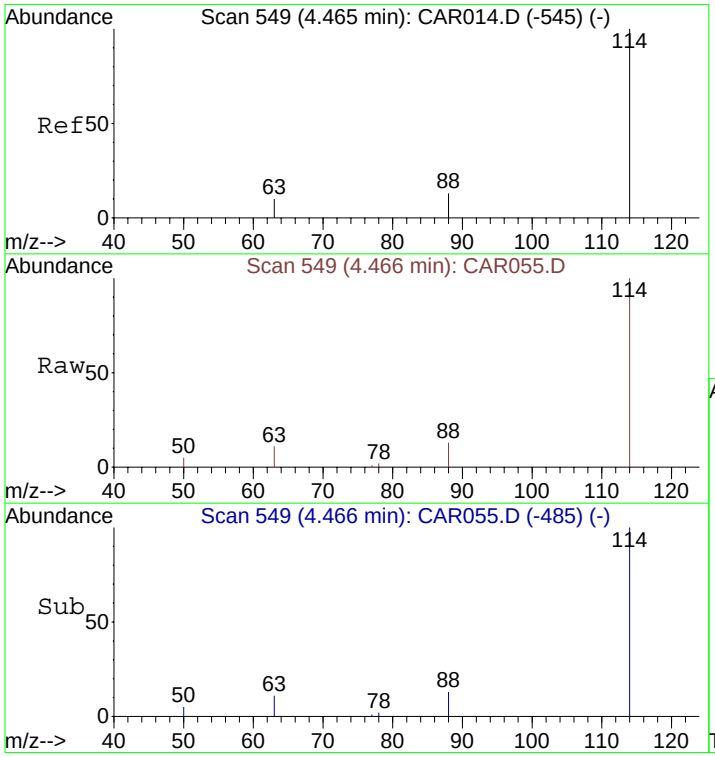


#7
cis-1,2-Dichloroethene
Concen: 160.72 ppbv
RT: 4.02 min Scan# 496
Delta R.T. 0.00 min
Lab File: CAR055.D
Acq: 16 Sep 2008 17:33

Tgt Ion: 61 Resp: 2082

Ion	Ratio	Lower	Upper
61	100		
96	83.8	56.0	84.0
98	52.5	36.2	54.4

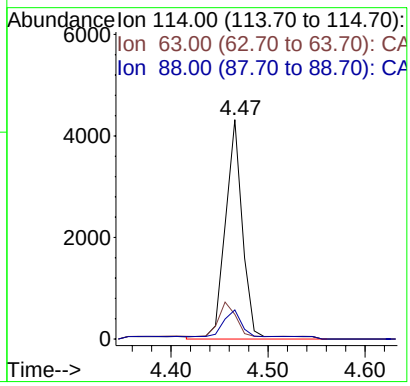


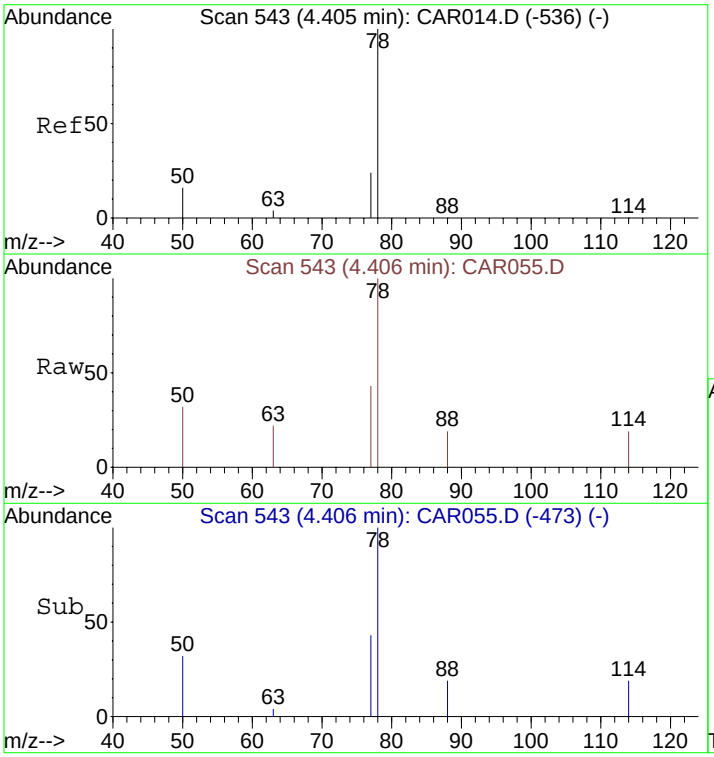


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. 0.00 min
Lab File: CAR055.D
Acq: 16 Sep 2008 17:33

Tgt Ion:114 Resp: 5208

Ion	Ratio	Lower	Upper
114	100		
63	17.0	15.8	23.8
88	13.6	12.2	18.2

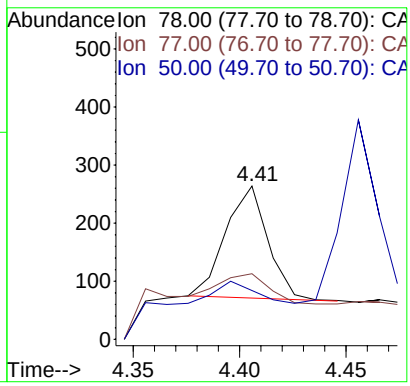


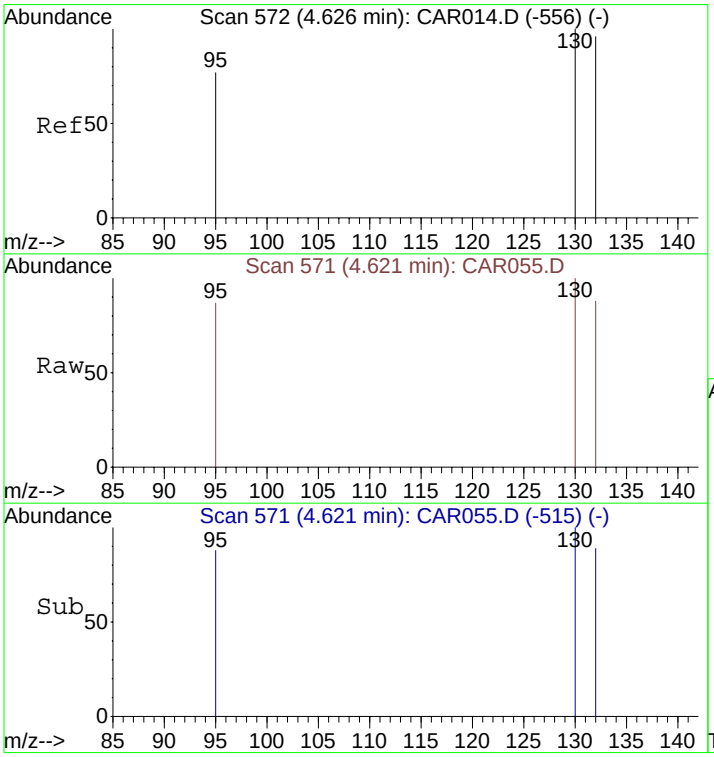


#10
Benzene
Concen: 8.40 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR055.D
Acq: 16 Sep 2008 17:33

Tgt Ion: 78 Resp: 266

Ion	Ratio	Lower	Upper
78	100		
77	26.3	18.6	28.0
50	19.2	16.2	24.4

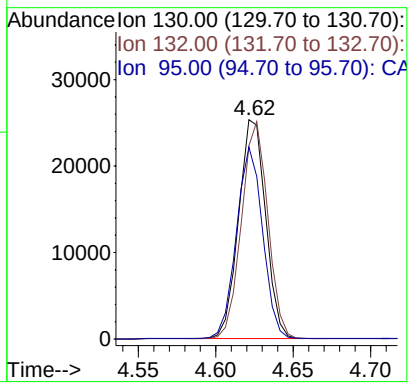


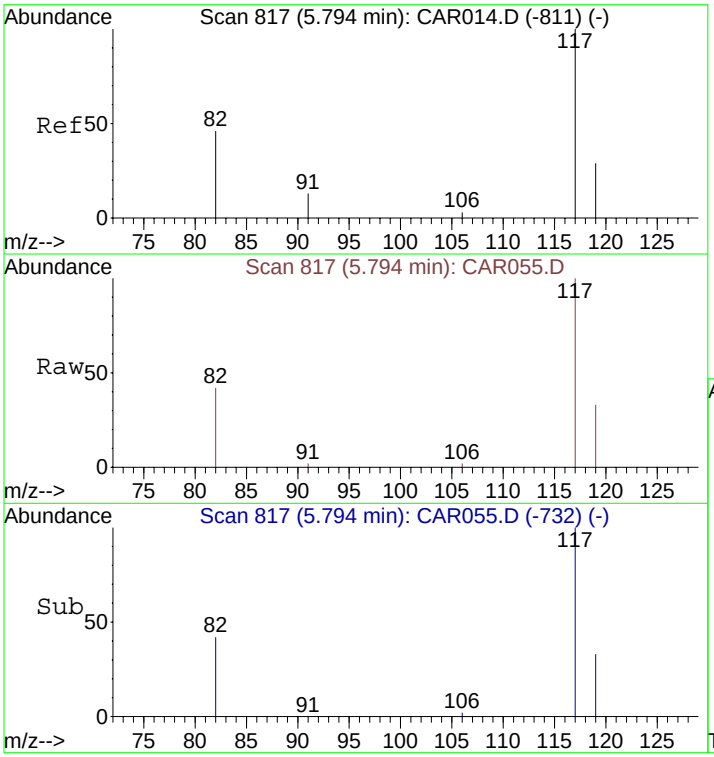


#11
Trichloroethene
Concen: 1994.52 ppbv
RT: 4.62 min Scan# 571
Delta R.T. -0.00 min
Lab File: CAR055.D
Acq: 16 Sep 2008 17:33

Tgt Ion:130 Resp: 30760

Ion	Ratio	Lower	Upper
130	100		
132	96.3	73.8	110.6
95	92.9	72.5	108.7

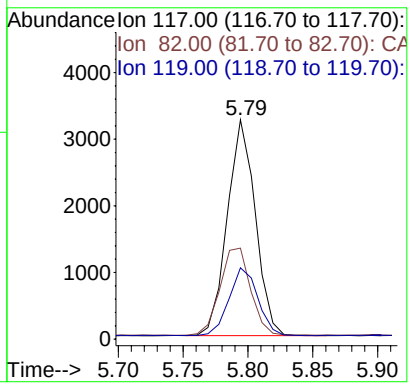


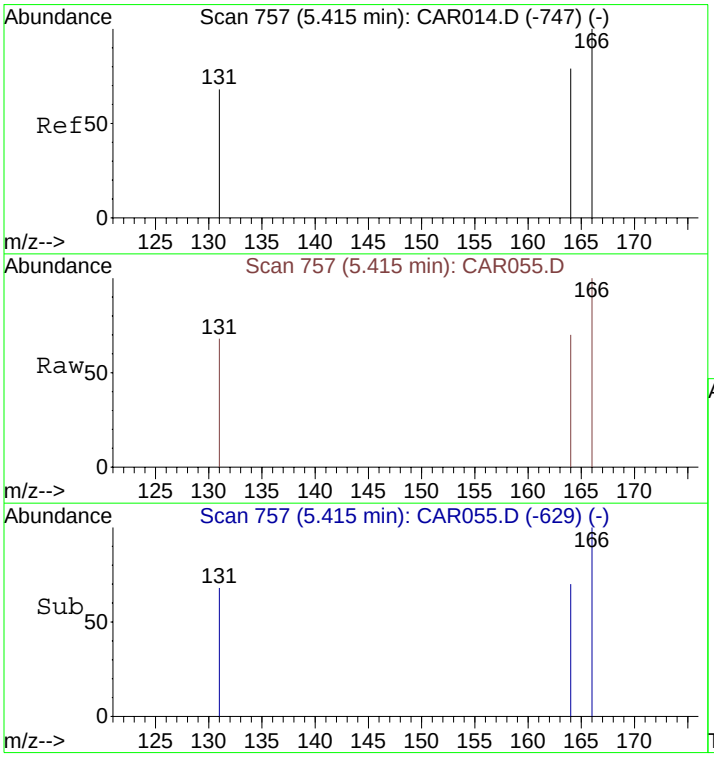


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.79 min Scan# 817
Delta R.T. 0.00 min
Lab File: CAR055.D
Acq: 16 Sep 2008 17:33

Tgt Ion:117 Resp: 4875

Ion	Ratio	Lower	Upper
117	100		
82	44.3	38.3	57.5
119	32.2	26.0	39.0

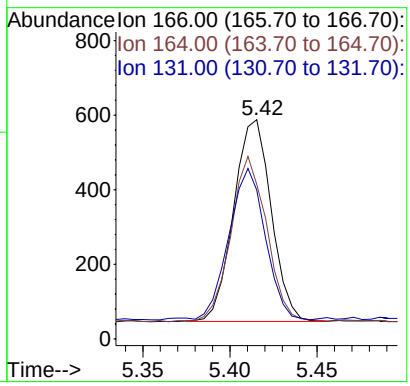




#14
Tetrachloroethene
Concen: 45.54 ppbv
RT: 5.42 min Scan# 757
Delta R.T. 0.00 min
Lab File: CAR055.D
Acq: 16 Sep 2008 17:33

Tgt Ion:166 Resp: 811

Ion	Ratio	Lower	Upper
166	100		
164	77.2	63.1	94.7
131	77.9	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR056.D Vial: 1
Acq On : 16 Sep 2008 20:38 Operator: dlm
Sample : 51384\C4-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 16 20:45:31 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.13	49	1607	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.46	114	5269	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.79	117	5093	10.00 ppbv	0.00

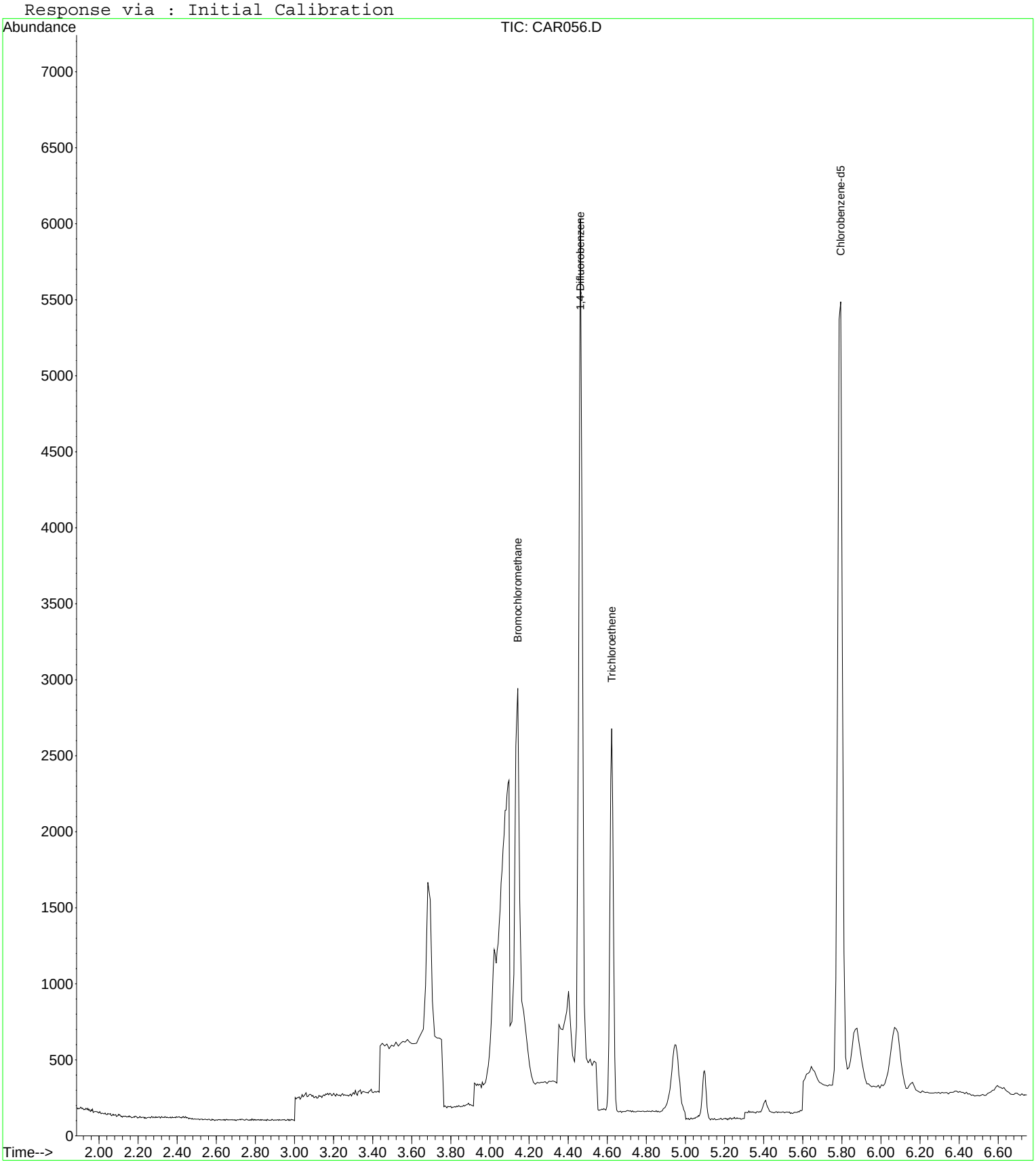
Target Compounds					Qvalue
7) cis-1,2-Dichloroethene	4.02	61	253	18.74 ppbv #	1
10) Benzene	4.40	78	467m	14.57 ppbv	
11) Trichloroethene	4.62	130	1139	73.00 ppbv	94
13) Toluene	5.10	91	283	9.15 ppbv	99

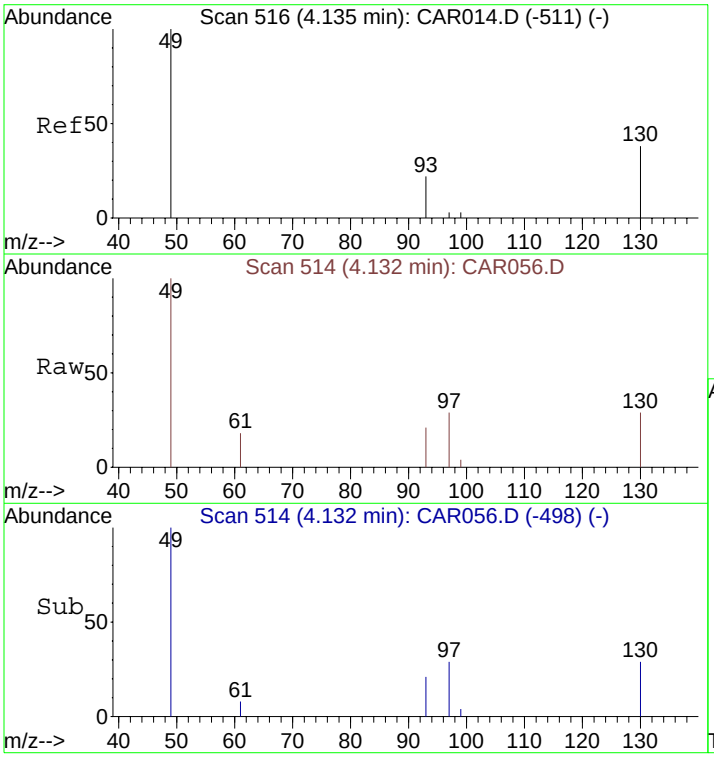
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR056.D Vial: 1
Acq On : 16 Sep 2008 20:38 Operator: dlm
Sample : 51384\C4-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 29 15:01 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 10:37:21 2008
Response via : Initial Calibration

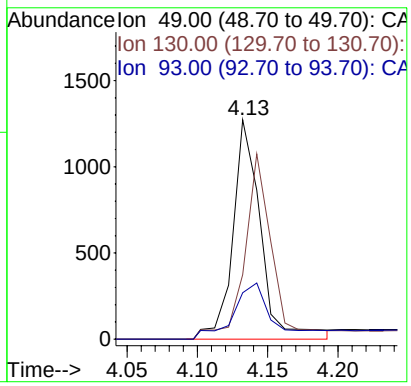


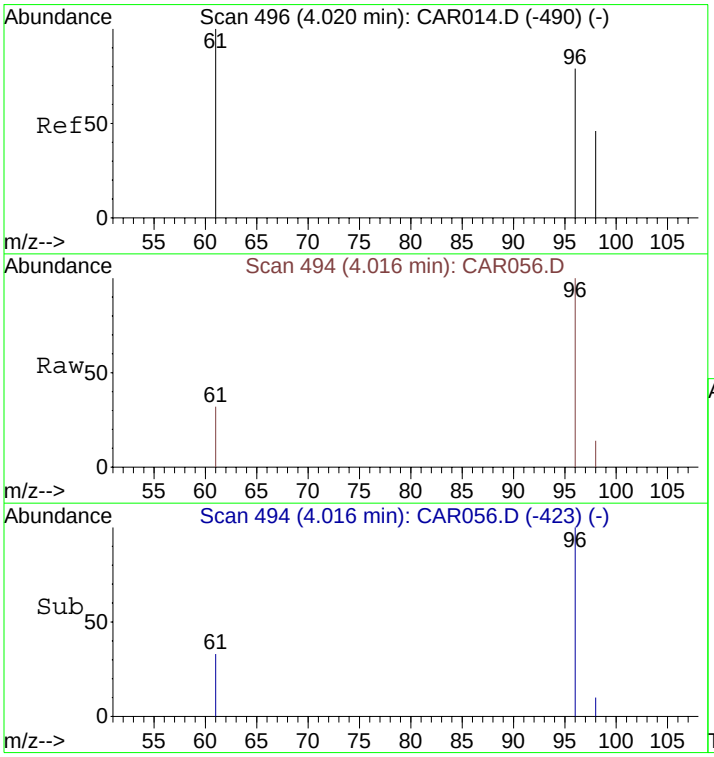


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.13 min Scan# 514
Delta R.T. -0.00 min
Lab File: CAR056.D
Acq: 16 Sep 2008 20:38

Tgt Ion: 49 Resp: 1607

Ion	Ratio	Lower	Upper
49	100		
130	82.9	65.1	97.7
93	37.0	33.8	50.6

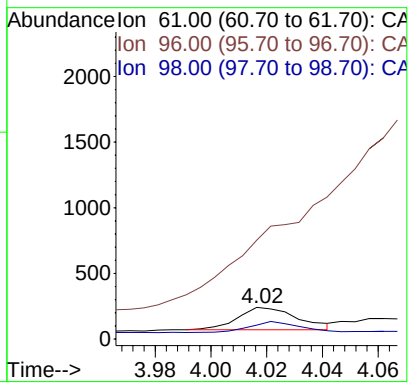


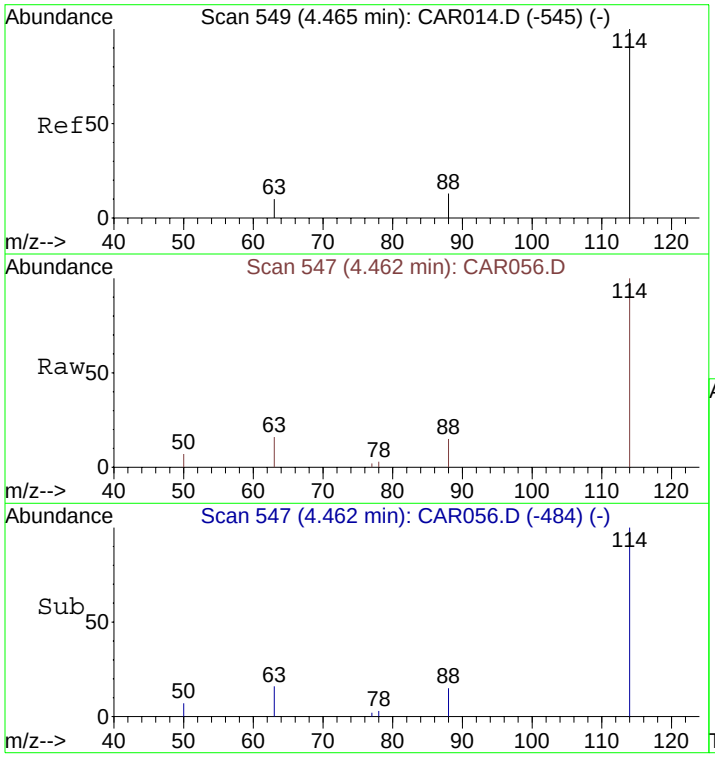


#7
cis-1,2-Dichloroethene
Concen: 18.74 ppbv
RT: 4.02 min Scan# 494
Delta R.T. -0.00 min
Lab File: CAR056.D
Acq: 16 Sep 2008 20:38

Tgt Ion: 61 Resp: 253

Ion	Ratio	Lower	Upper
61	100		
96	3395.7	56.0	84.0#
98	40.7	36.2	54.4

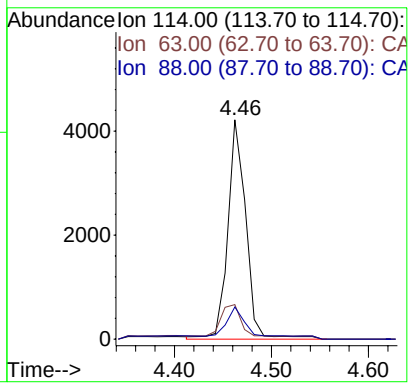


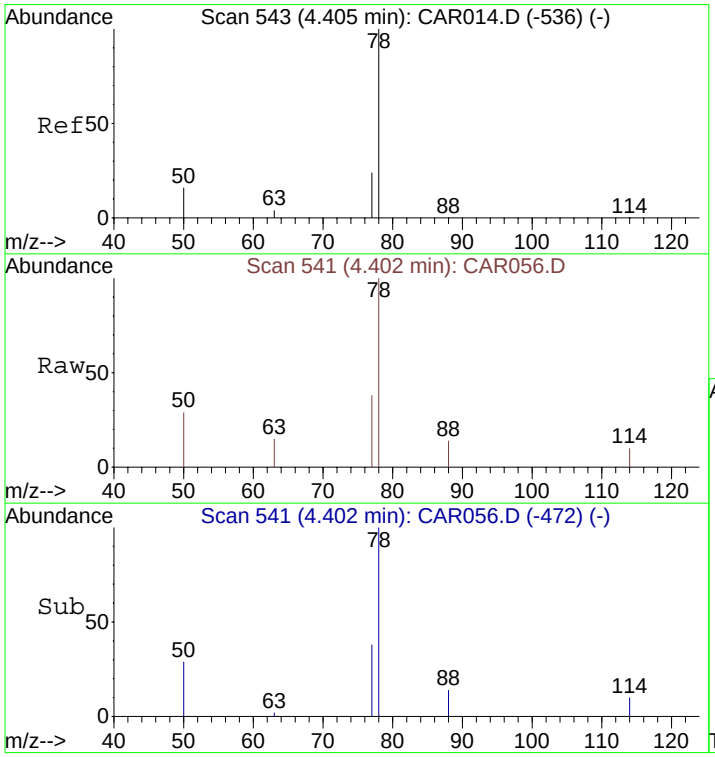


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.46 min Scan# 547
Delta R.T. -0.00 min
Lab File: CAR056.D
Acq: 16 Sep 2008 20:38

Tgt Ion:114 Resp: 5269

Ion	Ratio	Lower	Upper
114	100		
63	17.9	15.8	23.8
88	19.3	12.2	18.2#

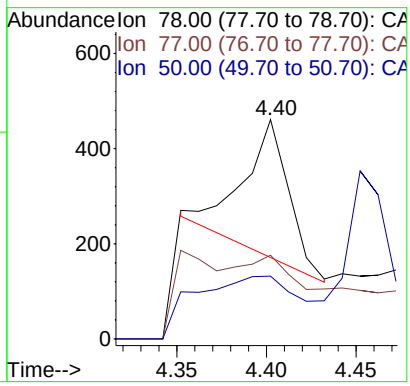


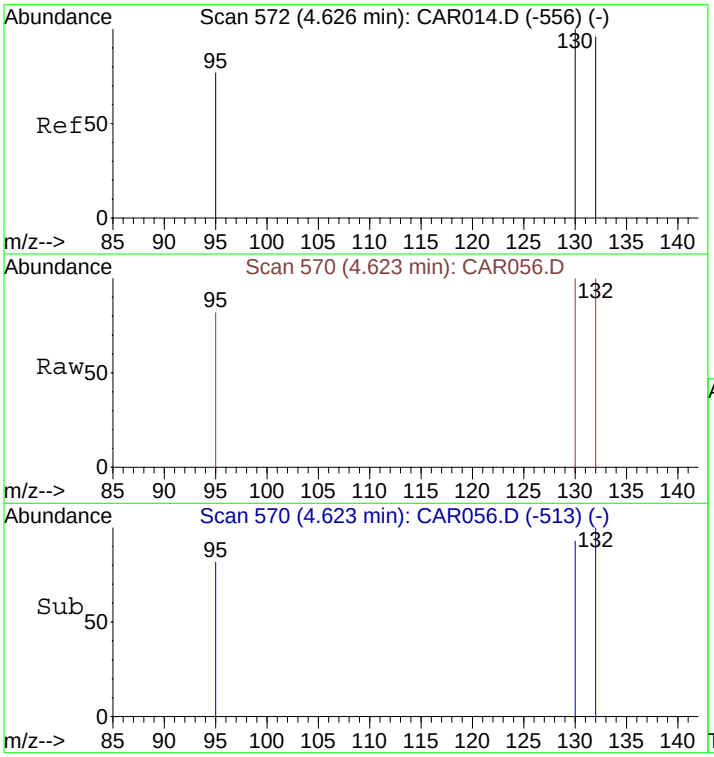


#10
Benzene
Concen: 14.57 ppbv m
RT: 4.40 min Scan# 541
Delta R.T. -0.00 min
Lab File: CAR056.D
Acq: 16 Sep 2008 20:38

Tgt Ion: 78 Resp: 467

Ion	Ratio	Lower	Upper
78	100		
77	17.8	18.6	28.0#
50	19.1	16.2	24.4

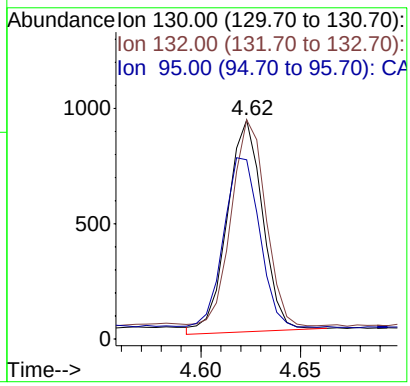


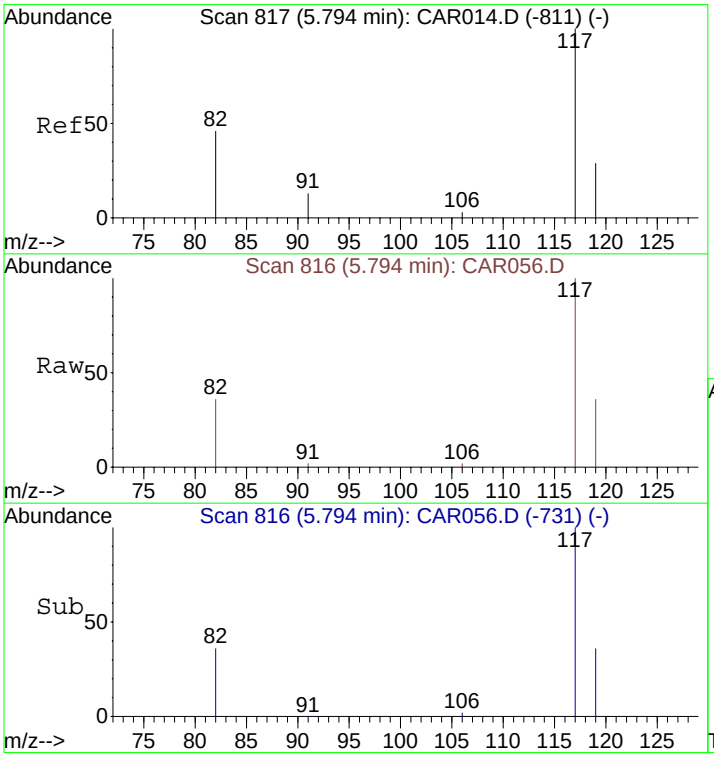


#11
Trichloroethene
Concen: 73.00 ppbv
RT: 4.62 min Scan# 570
Delta R.T. -0.00 min
Lab File: CAR056.D
Acq: 16 Sep 2008 20:38

Tgt Ion:130 Resp: 1139

Ion	Ratio	Lower	Upper
130	100		
132	98.9	73.8	110.6
95	86.6	72.5	108.7

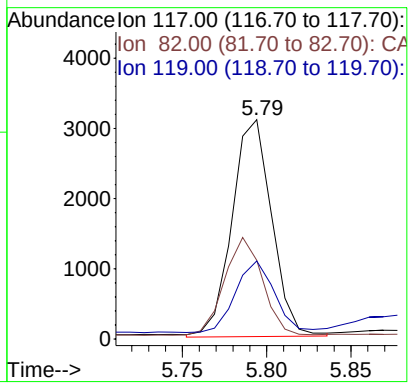


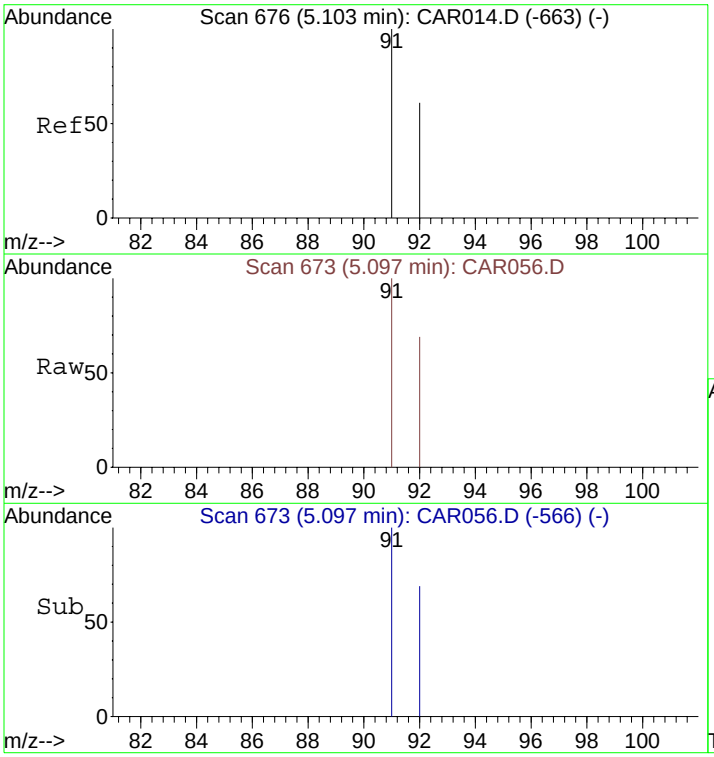


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.79 min Scan# 816
Delta R.T. 0.00 min
Lab File: CAR056.D
Acq: 16 Sep 2008 20:38

Tgt Ion:117 Resp: 5093

Ion	Ratio	Lower	Upper
117	100		
82	42.8	38.3	57.5
119	36.1	26.0	39.0

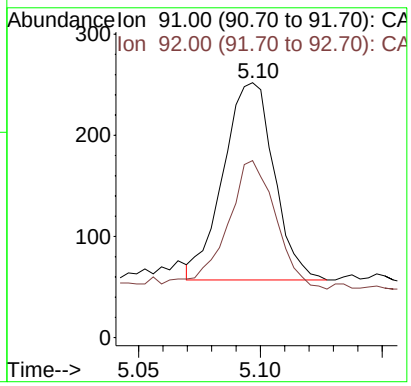




#13
Toluene
Concen: 9.15 ppbv
RT: 5.10 min Scan# 673
Delta R.T. -0.01 min
Lab File: CAR056.D
Acq: 16 Sep 2008 20:38

Tgt Ion: 91 Resp: 283

Ion	Ratio	Lower	Upper
91	100		
92	60.8	48.2	72.2



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR057.D Vial: 1
Acq On : 16 Sep 2008 22:21 Operator: dlm
Sample : 51386\B5-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 16 22:42:46 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.16	49	1933	10.00	ppbv	0.03
9) 1,4-Difluorobenzene	4.51	114	6302	10.00	ppbv	0.05
12) Chlorobenzene-d5	5.93	117	6952	10.00	ppbv	0.13

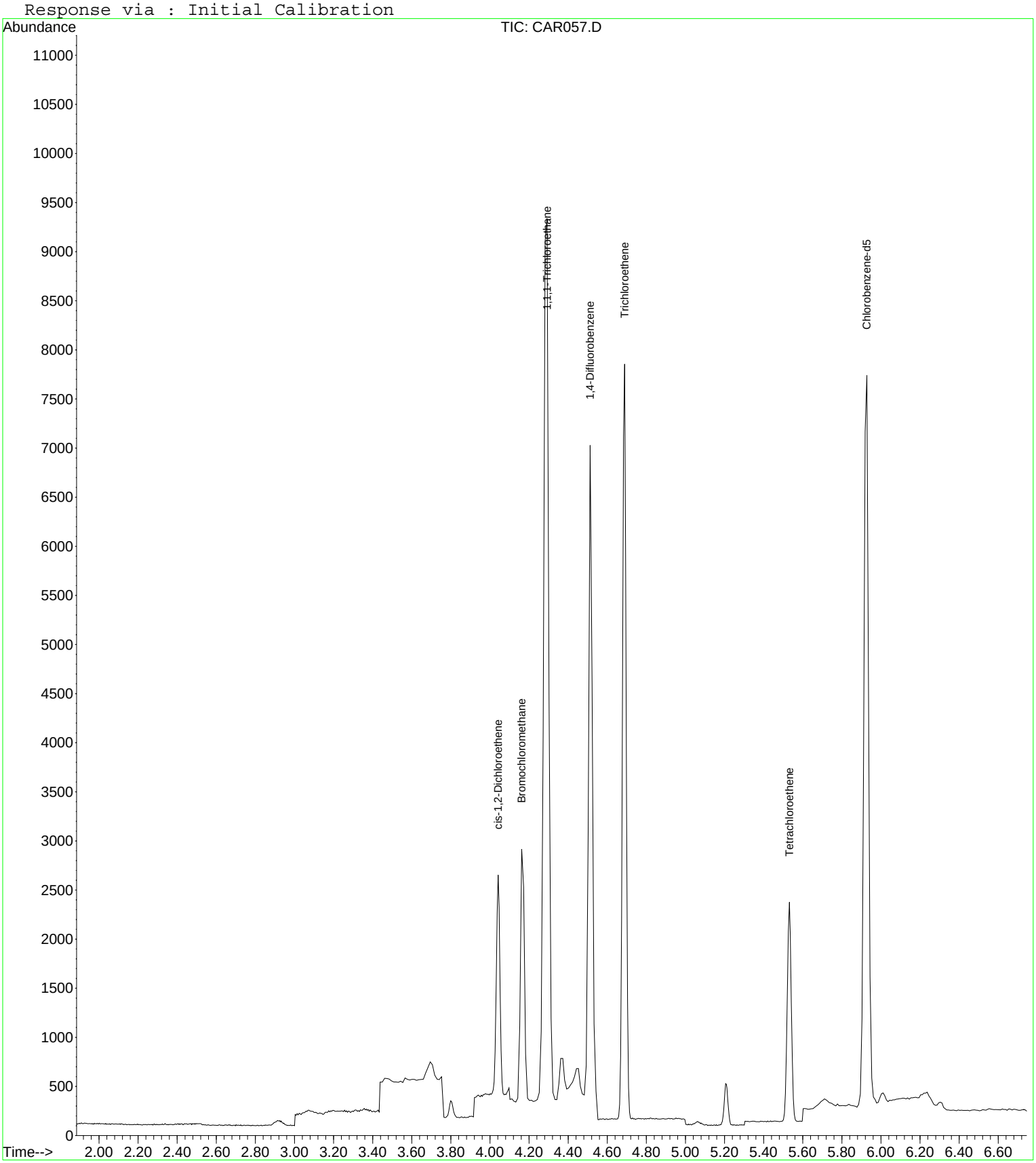
Target Compounds						Qvalue
6) 1,1-Dichloroethane	3.80	63	166m	7.78	ppbv	
7) cis-1,2-Dichloroethene	4.04	61	1179	72.60	ppbv #	65
8) 1,1,1-Trichloroethane	4.29	97	8537	353.82	ppbv	96
10) Benzene	4.45	78	433m	11.30	ppbv	
11) Trichloroethene	4.69	130	3550	190.23	ppbv	95
13) Toluene	5.21	91	356	8.43	ppbv	98
14) Tetrachloroethene	5.53	166	1279	50.37	ppbv	96

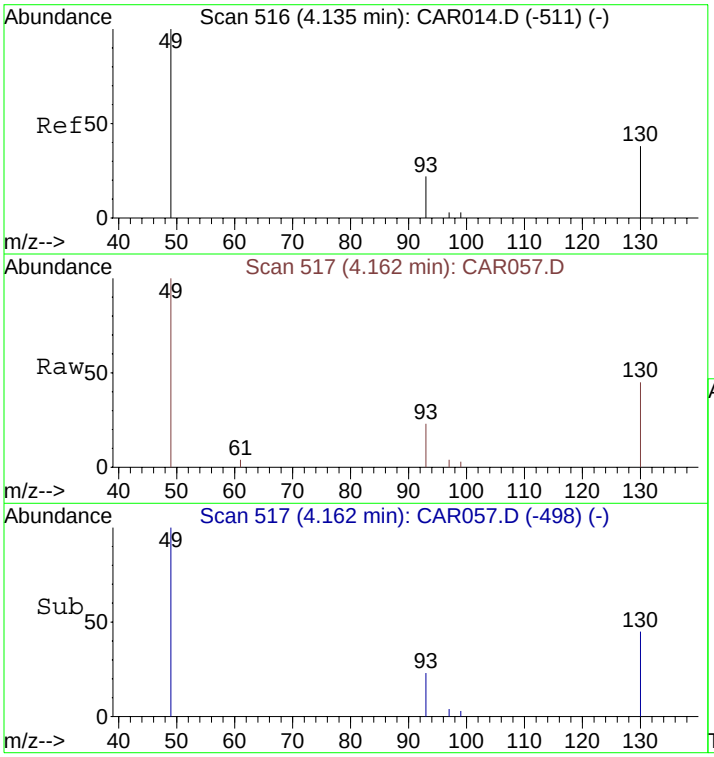
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR057.D Vial: 1
Acq On : 16 Sep 2008 22:21 Operator: dlm
Sample : 51386\B5-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:57 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Thu Oct 02 13:10:18 2008
Response via : Initial Calibration

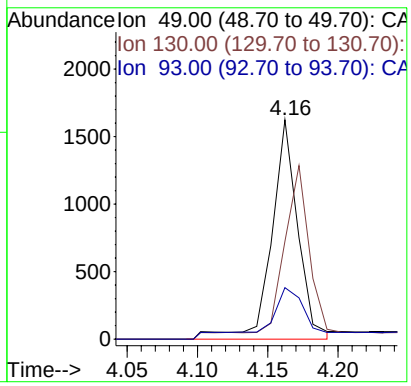


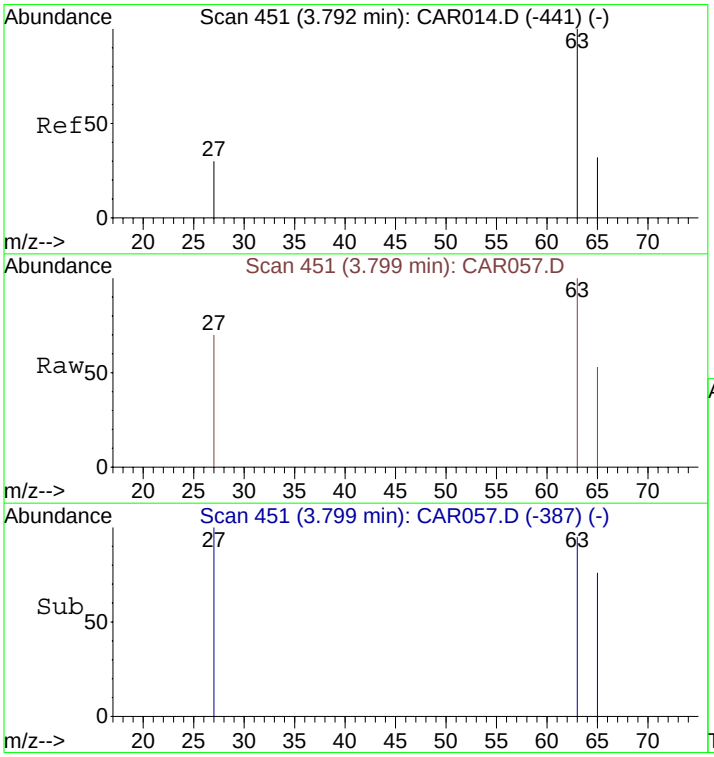


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.16 min Scan# 517
Delta R.T. 0.03 min
Lab File: CAR057.D
Acq: 16 Sep 2008 22:21

Tgt Ion: 49 Resp: 1933

Ion	Ratio	Lower	Upper
49	100		
130	81.6	65.1	97.7
93	33.7	33.8	50.6#

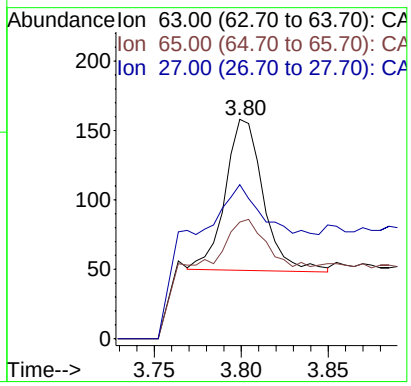


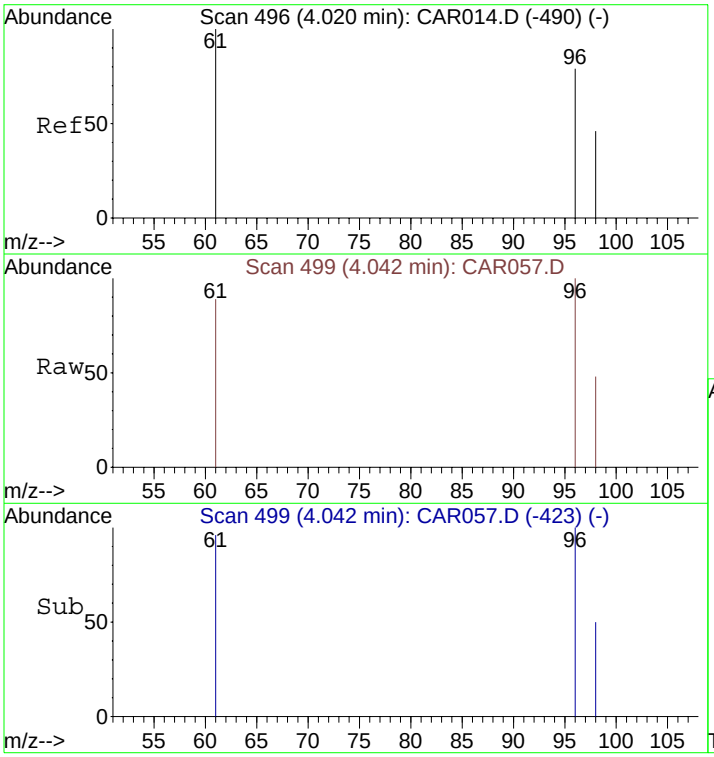


#6
1,1-Dichloroethane
Concen: 7.78 ppbv m
RT: 3.80 min Scan# 451
Delta R.T. 0.01 min
Lab File: CAR057.D
Acq: 16 Sep 2008 22:21

Tgt Ion: 63 Resp: 166

Ion	Ratio	Lower	Upper
63	100		
65	28.9	23.5	35.3
27	33.1	26.7	40.1

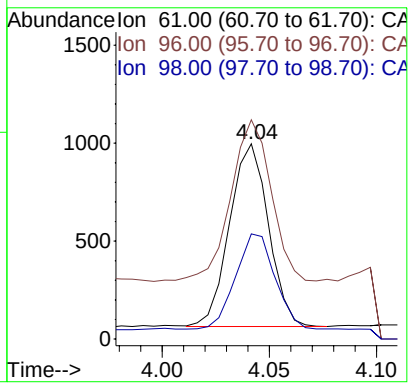


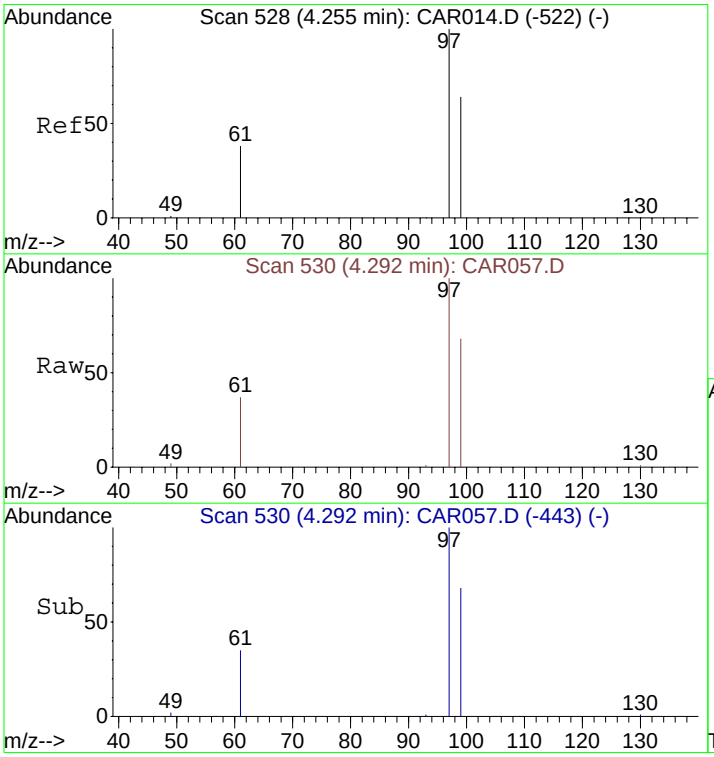


#7
cis-1,2-Dichloroethene
Concen: 72.60 ppbv
RT: 4.04 min Scan# 499
Delta R.T. 0.02 min
Lab File: CAR057.D
Acq: 16 Sep 2008 22:21

Tgt Ion: 61 Resp: 1179

Ion	Ratio	Lower	Upper
61	100		
96	90.2	56.0	84.0#
98	78.9	36.2	54.4#

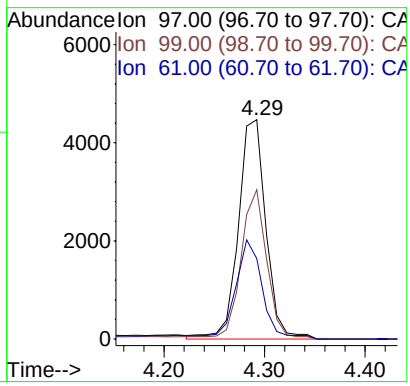


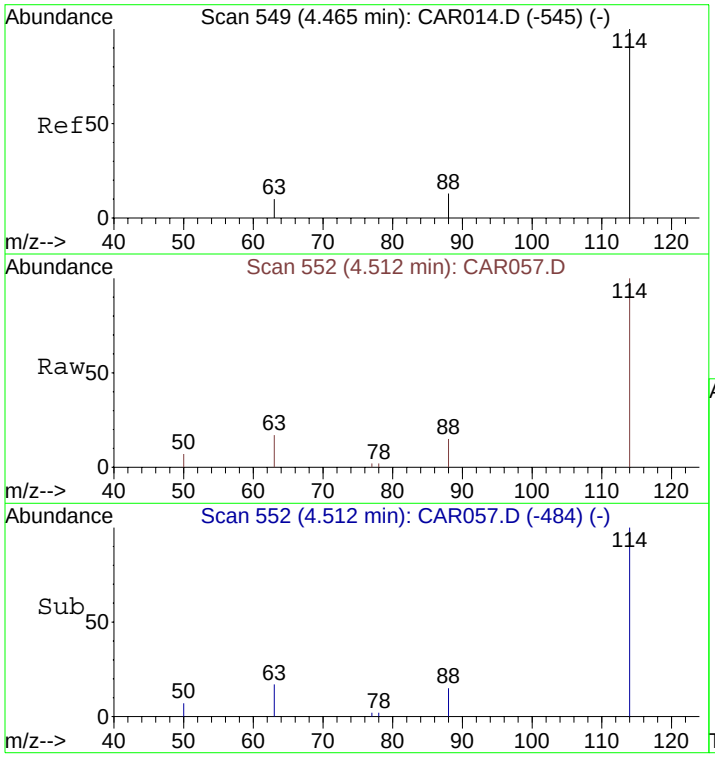


#8
1,1,1-Trichloroethane
Concen: 353.82 ppbv
RT: 4.29 min Scan# 530
Delta R.T. 0.04 min
Lab File: CAR057.D
Acq: 16 Sep 2008 22:21

Tgt Ion: 97 Resp: 8537

Ion	Ratio	Lower	Upper
97	100		
99	63.2	51.8	77.8
61	43.8	32.1	48.1

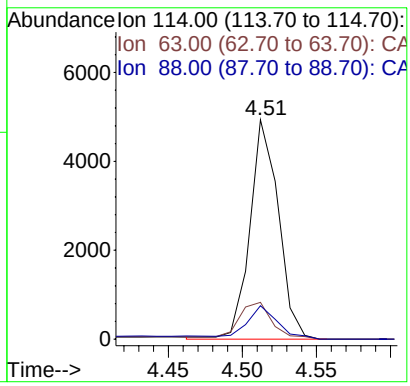


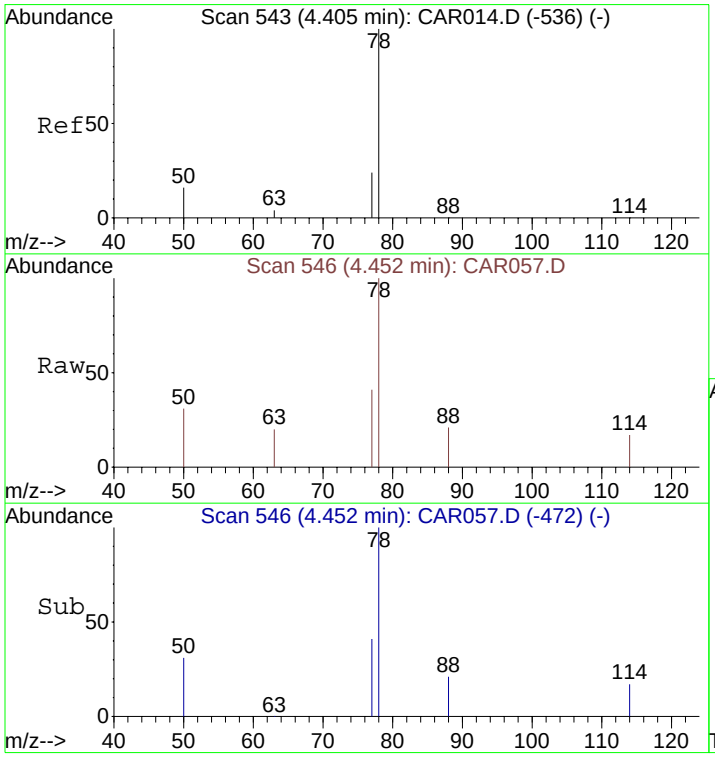


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.51 min Scan# 552
Delta R.T. 0.05 min
Lab File: CAR057.D
Acq: 16 Sep 2008 22:21

Tgt Ion:114 Resp: 6302

Ion	Ratio	Lower	Upper
114	100		
63	19.7	15.8	23.8
88	16.1	12.2	18.2

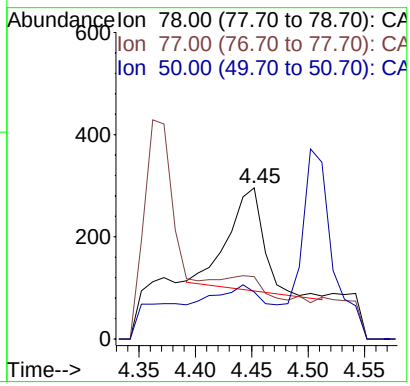


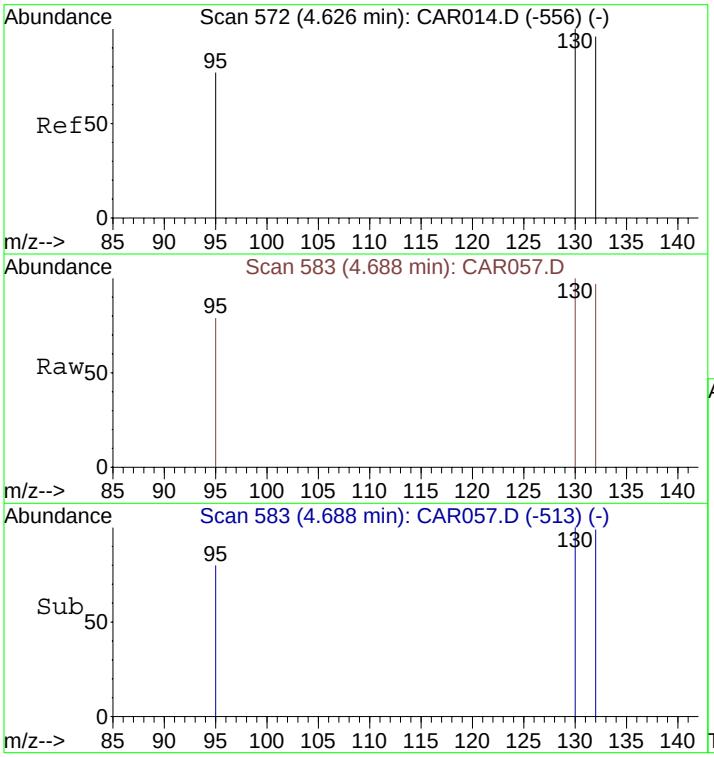


#10
Benzene
Concen: 11.30 ppbv m
RT: 4.45 min Scan# 546
Delta R.T. 0.05 min
Lab File: CAR057.D
Acq: 16 Sep 2008 22:21

Tgt Ion: 78 Resp: 433

Ion	Ratio	Lower	Upper
78	100		
77	9.2	18.6	28.0#
50	15.0	16.2	24.4#

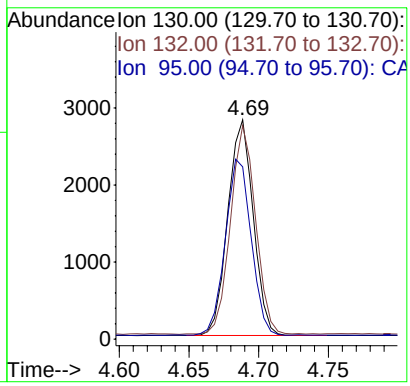


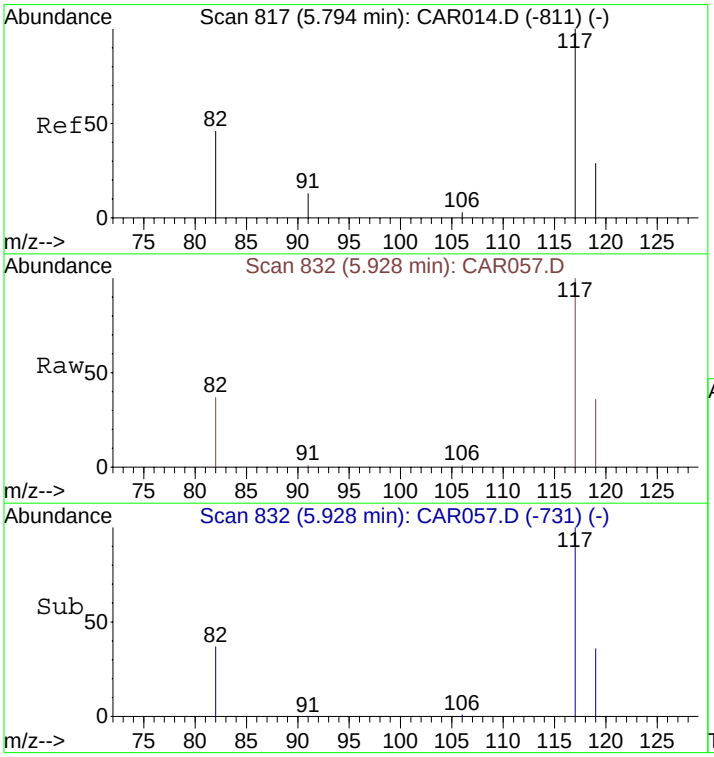


#11
Trichloroethene
Concen: 190.23 ppbv
RT: 4.69 min Scan# 583
Delta R.T. 0.06 min
Lab File: CAR057.D
Acq: 16 Sep 2008 22:21

Tgt Ion:130 Resp: 3550

Ion	Ratio	Lower	Upper
130	100		
132	94.8	73.8	110.6
95	82.8	72.5	108.7

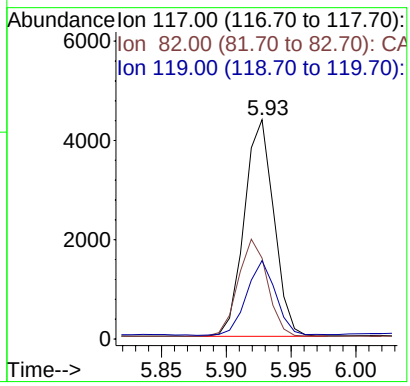


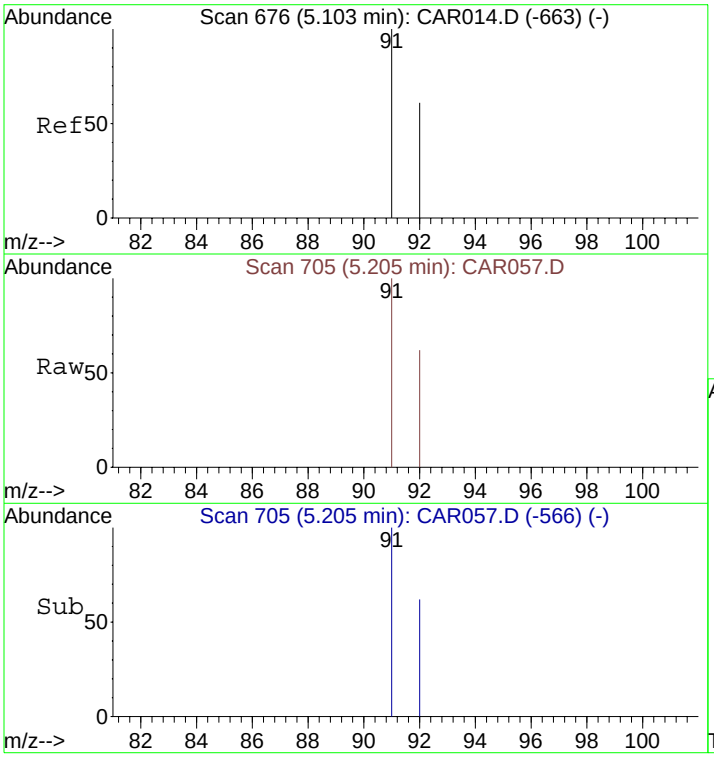


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.93 min Scan# 832
Delta R.T. 0.13 min
Lab File: CAR057.D
Acq: 16 Sep 2008 22:21

Tgt Ion:117 Resp: 6952

Ion	Ratio	Lower	Upper
117	100		
82	44.7	38.3	57.5
119	34.0	26.0	39.0

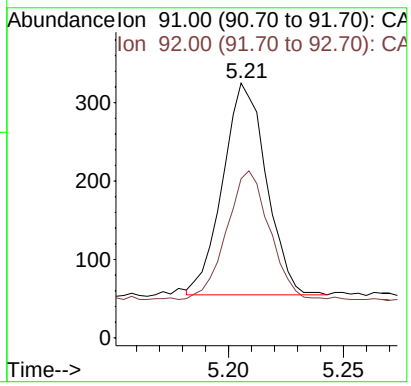


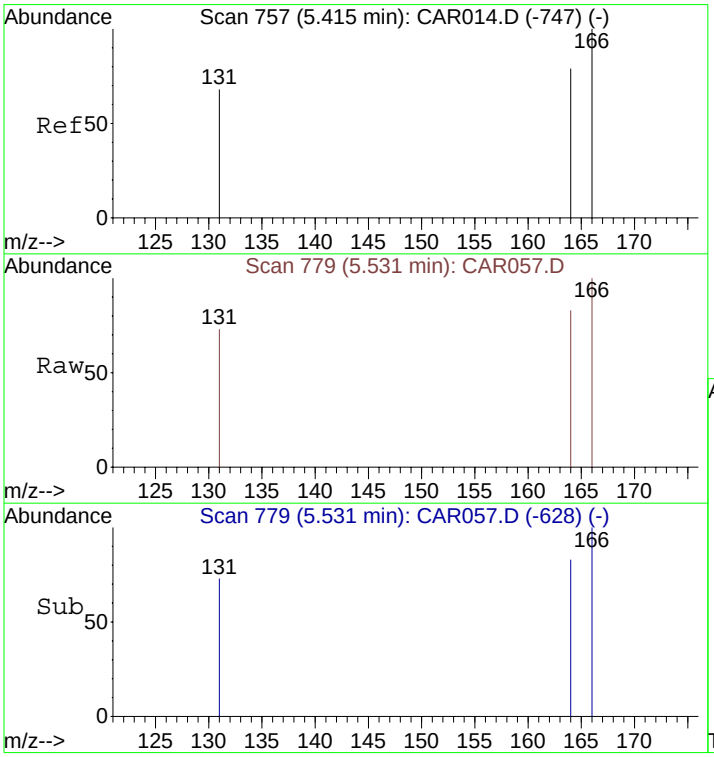


#13
Toluene
Concen: 8.43 ppbv
RT: 5.21 min Scan# 705
Delta R.T. 0.10 min
Lab File: CAR057.D
Acq: 16 Sep 2008 22:21

Tgt Ion: 91 Resp: 356

Ion	Ratio	Lower	Upper
91	100		
92	58.4	48.2	72.2

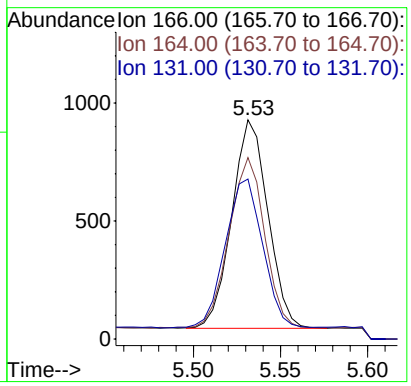




#14
Tetrachloroethene
Concen: 50.37 ppbv
RT: 5.53 min Scan# 779
Delta R.T. 0.12 min
Lab File: CAR057.D
Acq: 16 Sep 2008 22:21

Tgt Ion:166 Resp: 1279

Ion	Ratio	Lower	Upper
166	100		
164	80.5	63.1	94.7
131	72.6	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR058.D Vial: 1
Acq On : 16 Sep 2008 22:40 Operator: dlm
Sample : 51394\B10-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 16 22:54:44 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.15	49	1540	10.00 ppbv	0.01
9) 1,4-Difluorobenzene	4.49	114	5104	10.00 ppbv	0.02
12) Chlorobenzene-d5	5.85	117	4876	10.00 ppbv	0.06

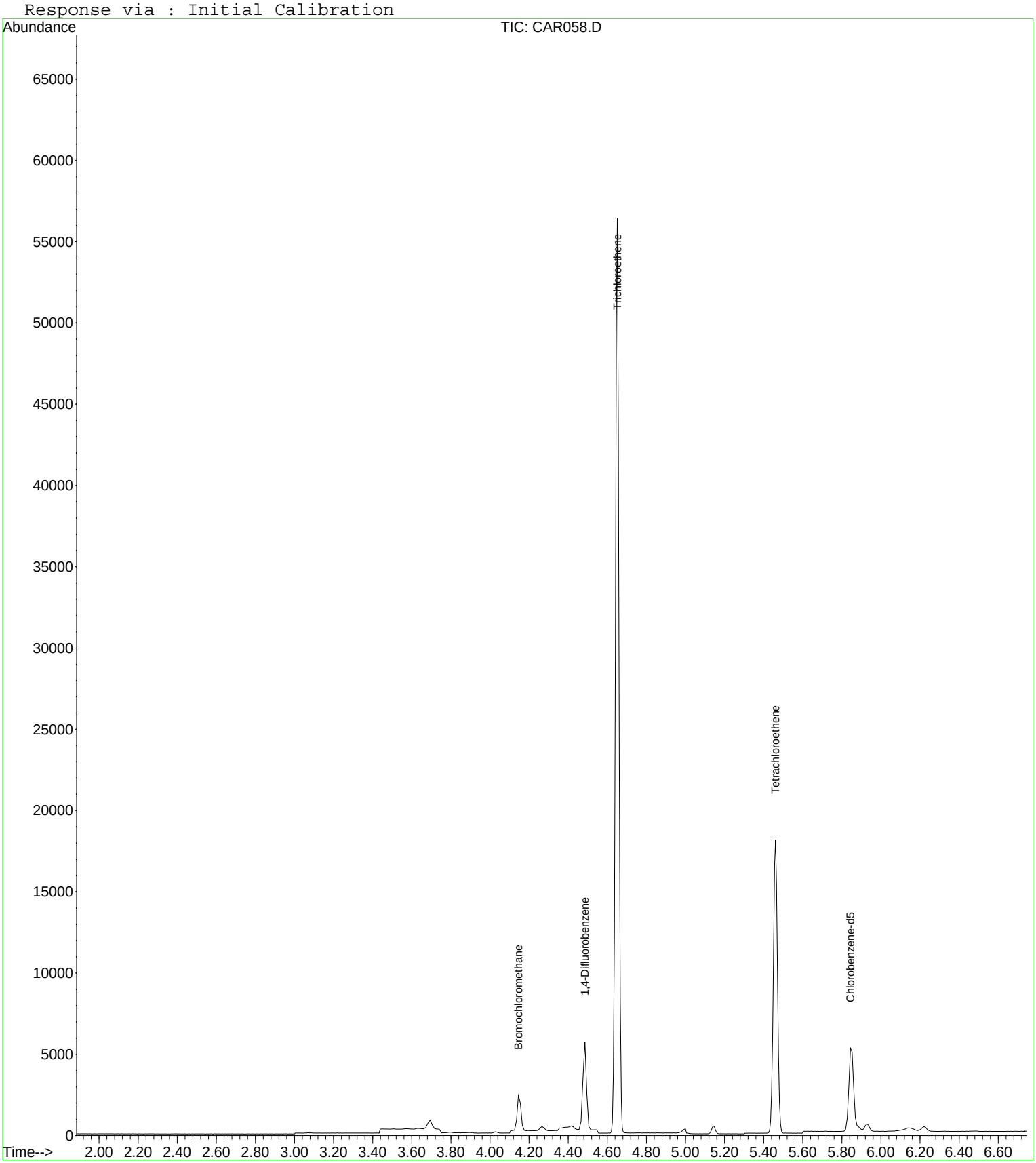
Target Compounds					Qvalue
8) 1,1,1-Trichloroethane	4.27	97	205	10.66 ppbv	96
10) Benzene	4.42	78	289m	9.31 ppbv	
11) Trichloroethene	4.65	130	24796	1640.57 ppbv	94
13) Toluene	5.14	91	407	13.74 ppbv	100
14) Tetrachloroethene	5.46	166	10591	594.65 ppbv	96
15) Ethylbenzene	5.88	91	339	9.89 ppbv #	88
16) m&p-Xylenes	5.93	91	488	20.18 ppbv	94
17) o-Xylene	6.22	91	368	13.30 ppbv	90

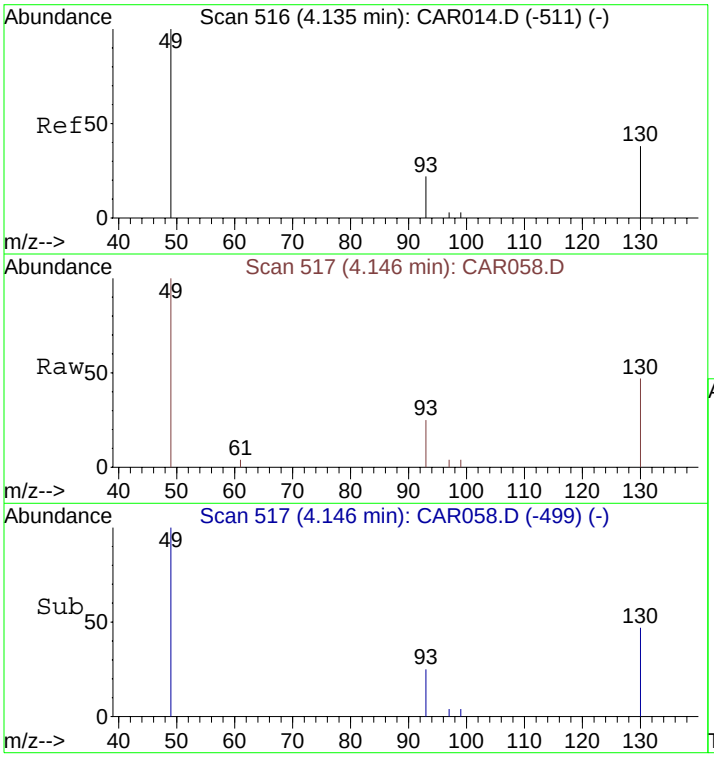
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR058.D Vial: 1
Acq On : 16 Sep 2008 22:40 Operator: dlm
Sample : 51394\B10-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 29 15:18 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 10:37:21 2008
Response via : Initial Calibration

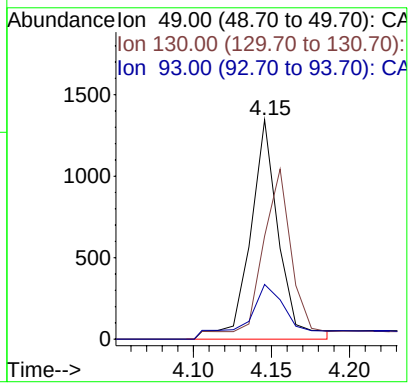


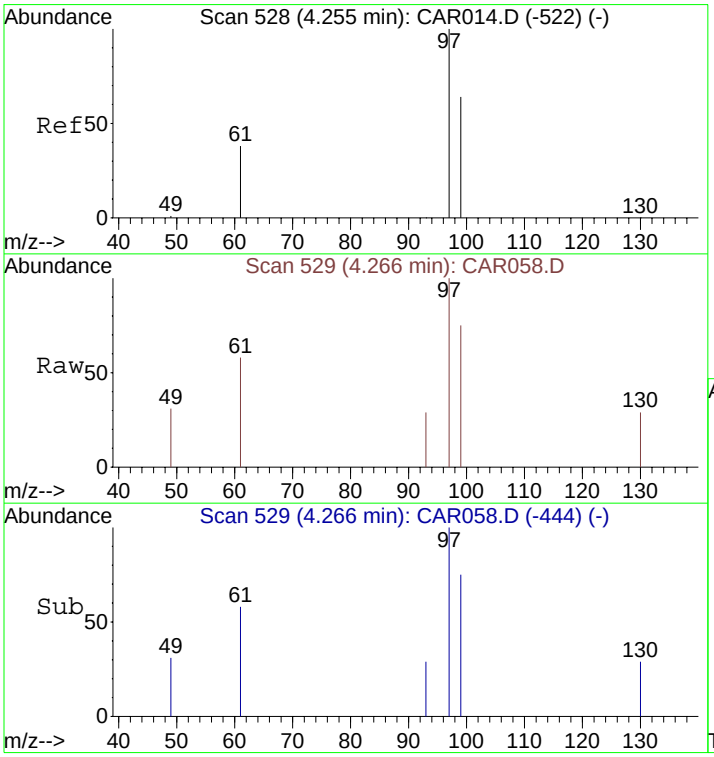


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.15 min Scan# 517
Delta R.T. 0.01 min
Lab File: CAR058.D
Acq: 16 Sep 2008 22:40

Tgt Ion: 49 Resp: 1540

Ion	Ratio	Lower	Upper
49	100		
130	82.6	65.1	97.7
93	36.4	33.8	50.6

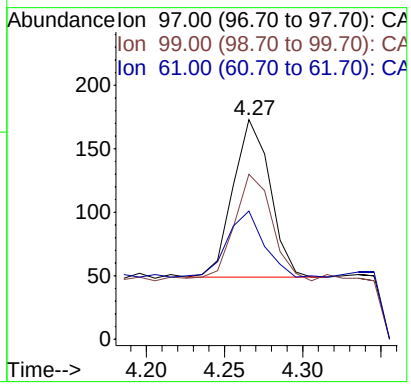


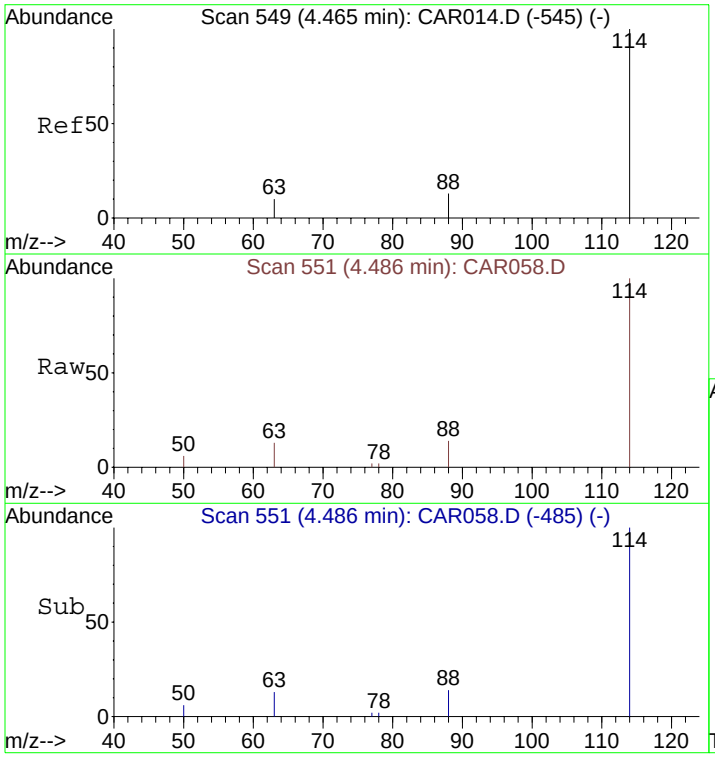


#8
1,1,1-Trichloroethane
Concen: 10.66 ppbv
RT: 4.27 min Scan# 529
Delta R.T. 0.01 min
Lab File: CAR058.D
Acq: 16 Sep 2008 22:40

Tgt Ion: 97 Resp: 205

Ion	Ratio	Lower	Upper
97	100		
99	69.3	51.8	77.8
61	41.5	32.1	48.1

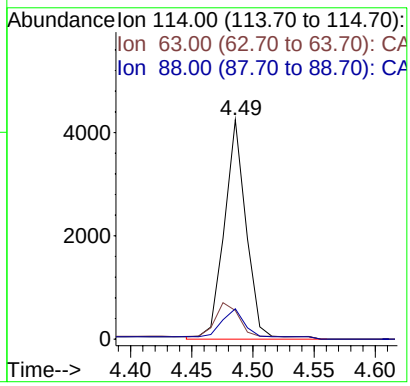


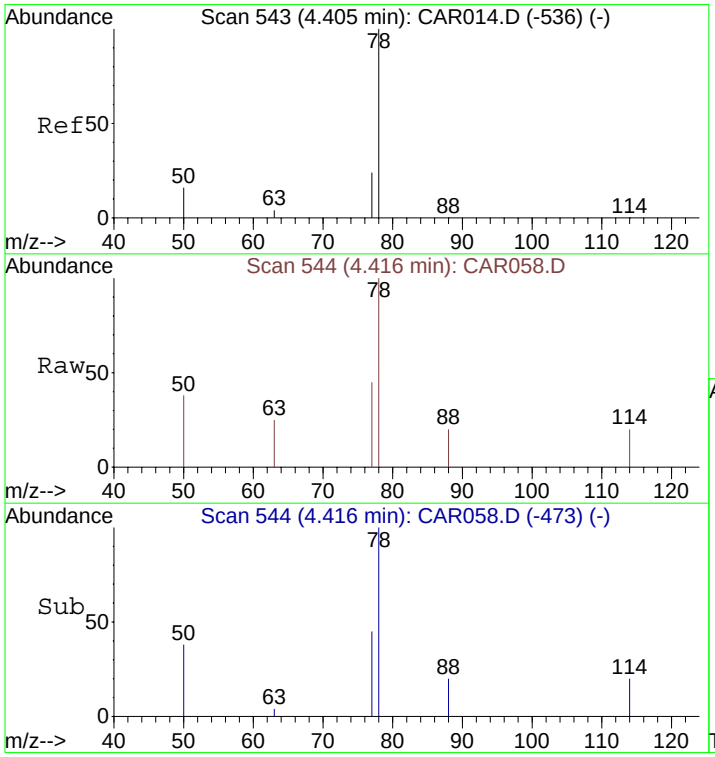


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.49 min Scan# 551
Delta R.T. 0.02 min
Lab File: CAR058.D
Acq: 16 Sep 2008 22:40

Tgt Ion:114 Resp: 5104

Ion	Ratio	Lower	Upper
114	100		
63	22.5	15.8	23.8
88	18.3	12.2	18.2#

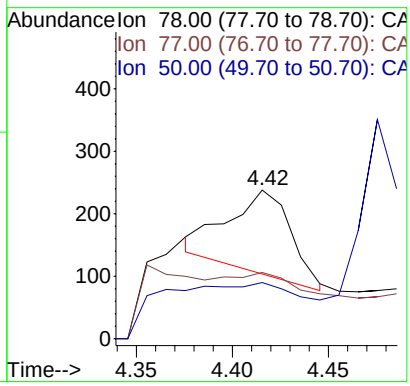


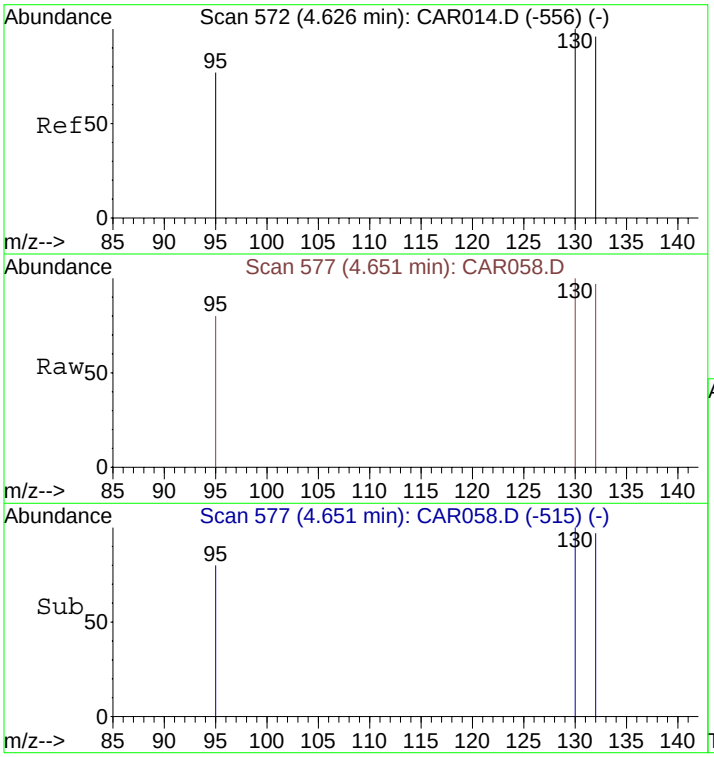


#10
Benzene
Concen: 9.31 ppbv m
RT: 4.42 min Scan# 544
Delta R.T. 0.01 min
Lab File: CAR058.D
Acq: 16 Sep 2008 22:40

Tgt Ion: 78 Resp: 289

Ion	Ratio	Lower	Upper
78	100		
77	20.8	18.6	28.0
50	20.4	16.2	24.4

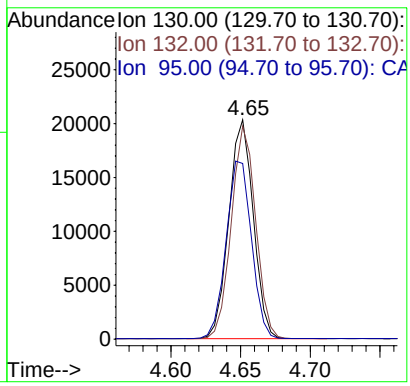


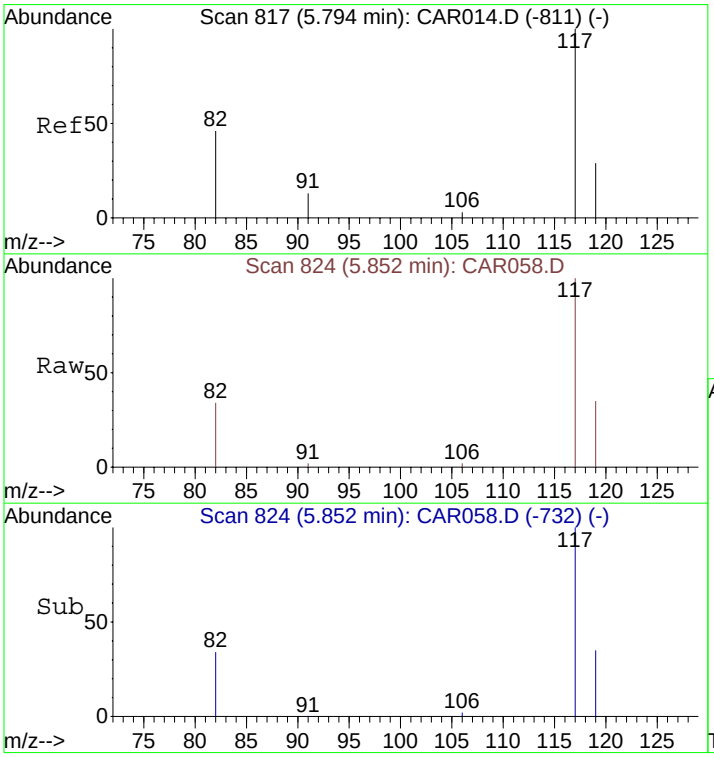


#11
Trichloroethene
Concen: 1640.57 ppbv
RT: 4.65 min Scan# 577
Delta R.T. 0.03 min
Lab File: CAR058.D
Acq: 16 Sep 2008 22:40

Tgt Ion:130 Resp: 24796

Ion	Ratio	Lower	Upper
130	100		
132	96.4	73.8	110.6
95	84.0	72.5	108.7

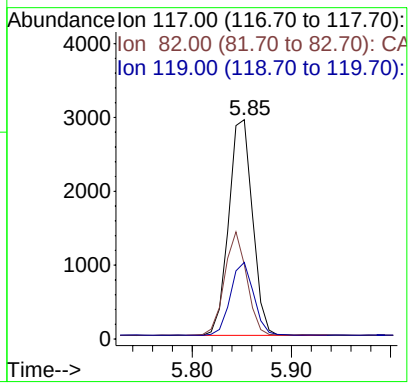


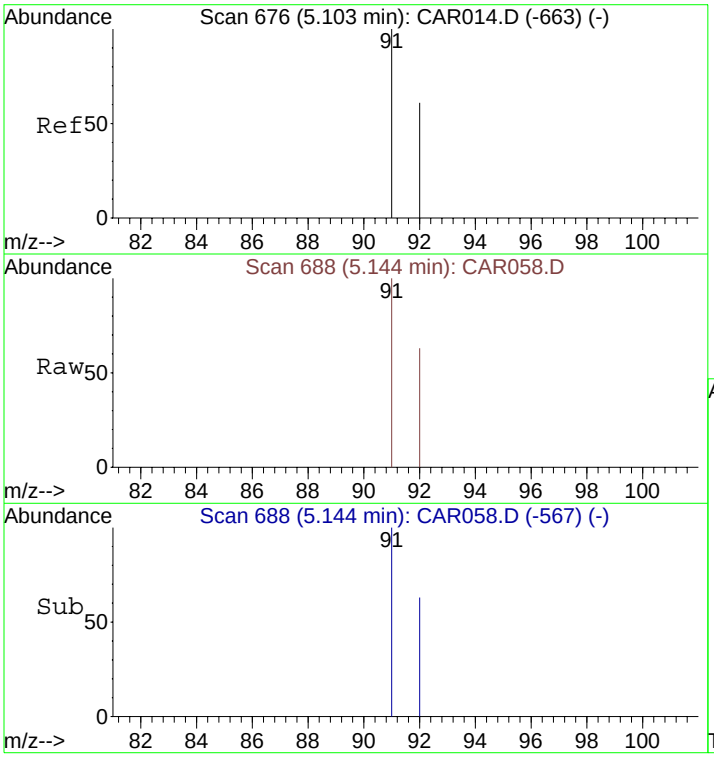


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.85 min Scan# 824
Delta R.T. 0.06 min
Lab File: CAR058.D
Acq: 16 Sep 2008 22:40

Tgt Ion:117 Resp: 4876

Ion	Ratio	Lower	Upper
117	100		
82	44.8	38.3	57.5
119	33.0	26.0	39.0

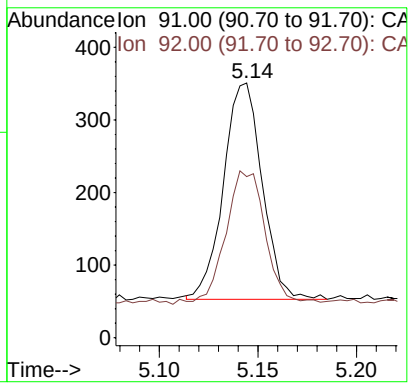


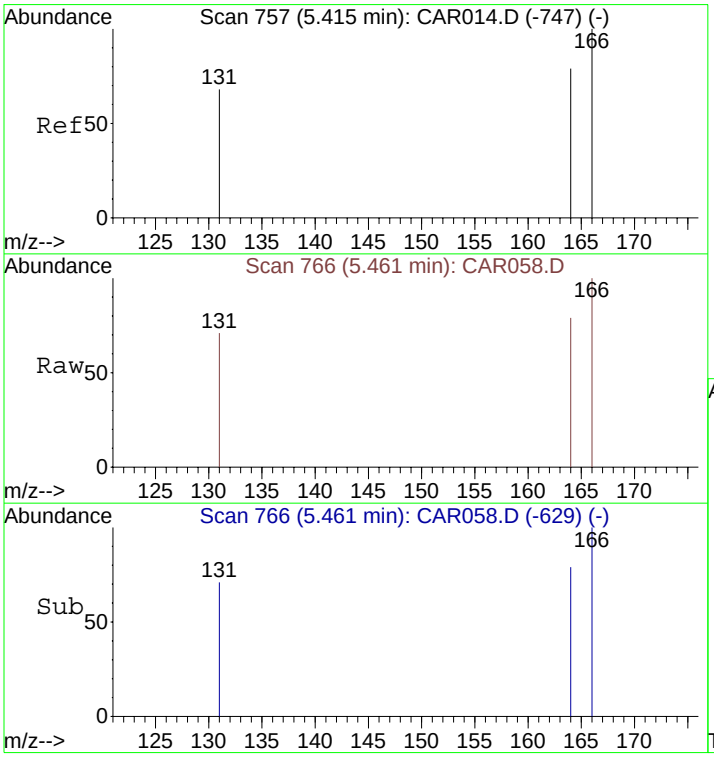


#13
Toluene
Concen: 13.74 ppbv
RT: 5.14 min Scan# 688
Delta R.T. 0.04 min
Lab File: CAR058.D
Acq: 16 Sep 2008 22:40

Tgt Ion: 91 Resp: 407

Ion	Ratio	Lower	Upper
91	100		
92	60.4	48.2	72.2

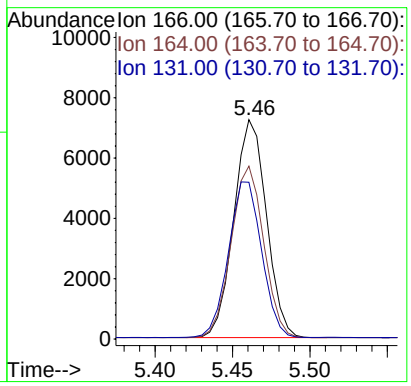


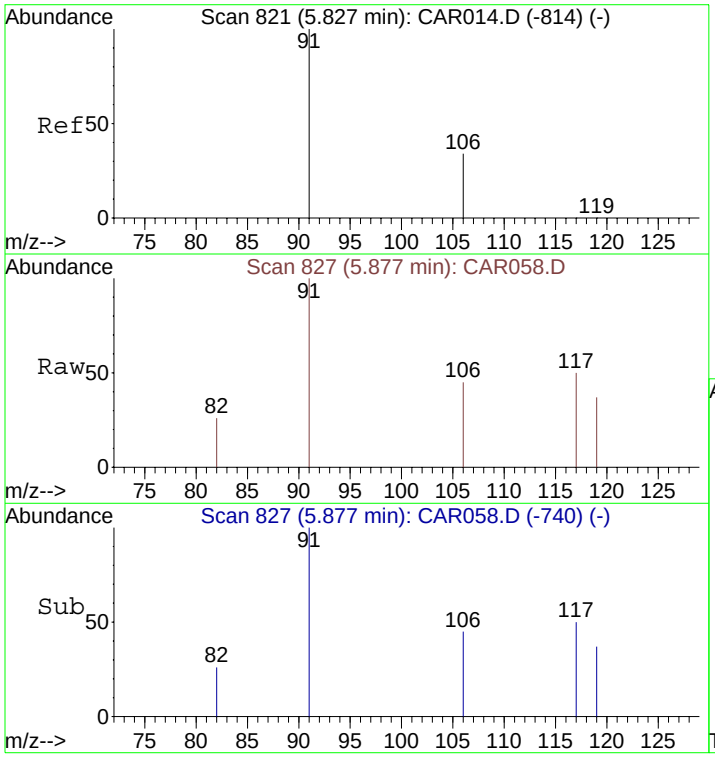


#14
Tetrachloroethene
Concen: 594.65 ppbv
RT: 5.46 min Scan# 766
Delta R.T. 0.05 min
Lab File: CAR058.D
Acq: 16 Sep 2008 22:40

Tgt Ion:166 Resp: 10591

Ion	Ratio	Lower	Upper
166	100		
164	78.5	63.1	94.7
131	72.6	62.9	94.3

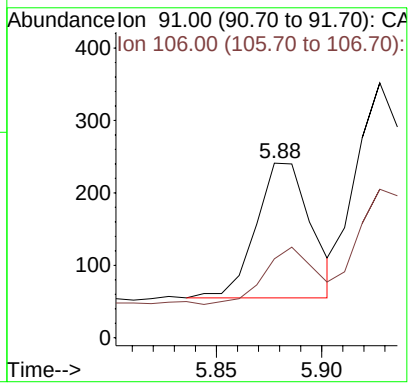


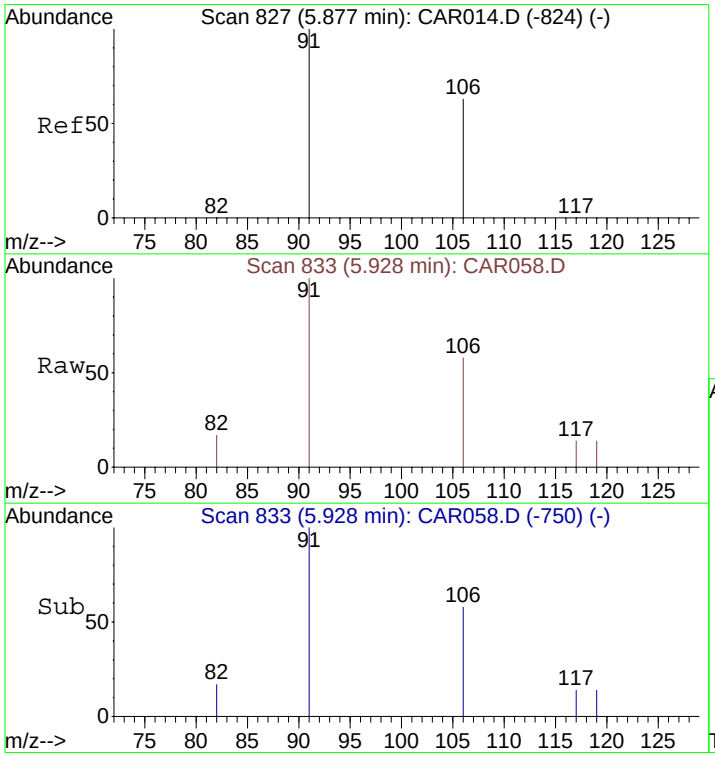


#15
Ethylbenzene
Concen: 9.89 ppbv
RT: 5.88 min Scan# 827
Delta R.T. 0.05 min
Lab File: CAR058.D
Acq: 16 Sep 2008 22:40

Tgt Ion: 91 Resp: 339

Ion	Ratio	Lower	Upper
91	100		
106	39.5	26.3	39.5#

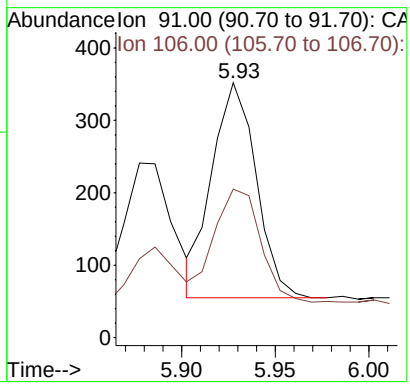


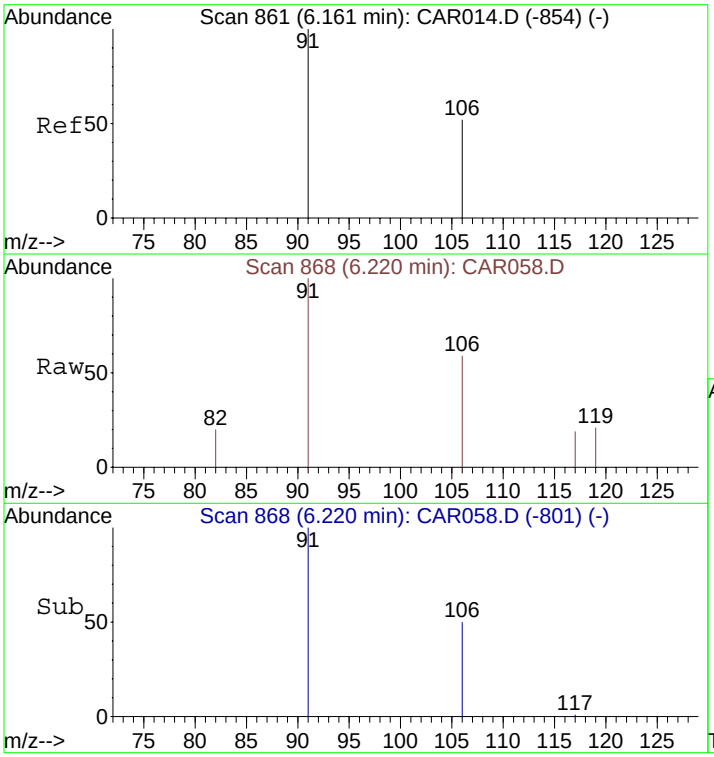


#16
m&p-Xylenes
Concen: 20.18 ppbv
RT: 5.93 min Scan# 833
Delta R.T. 0.05 min
Lab File: CAR058.D
Acq: 16 Sep 2008 22:40

Tgt Ion: 91 Resp: 488

Ion	Ratio	Lower	Upper
91	100		
106	56.6	41.8	62.8

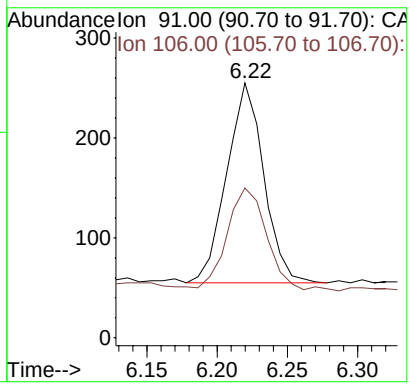




#17
o-Xylene
Concen: 13.30 ppbv
RT: 6.22 min Scan# 868
Delta R.T. 0.06 min
Lab File: CAR058.D
Acq: 16 Sep 2008 22:40

Tgt Ion: 91 Resp: 368

Ion	Ratio	Lower	Upper
91	100		
106	55.7	38.9	58.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR059.D Vial: 1
Acq On : 16 Sep 2008 22:53 Operator: dlm
Sample : 51395\B11-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 16 23:04:55 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.15	49	1468	10.00 ppbv	0.01
9) 1,4-Difluorobenzene	4.48	114	4865	10.00 ppbv	0.01
12) Chlorobenzene-d5	5.84	117	4575	10.00 ppbv	0.04

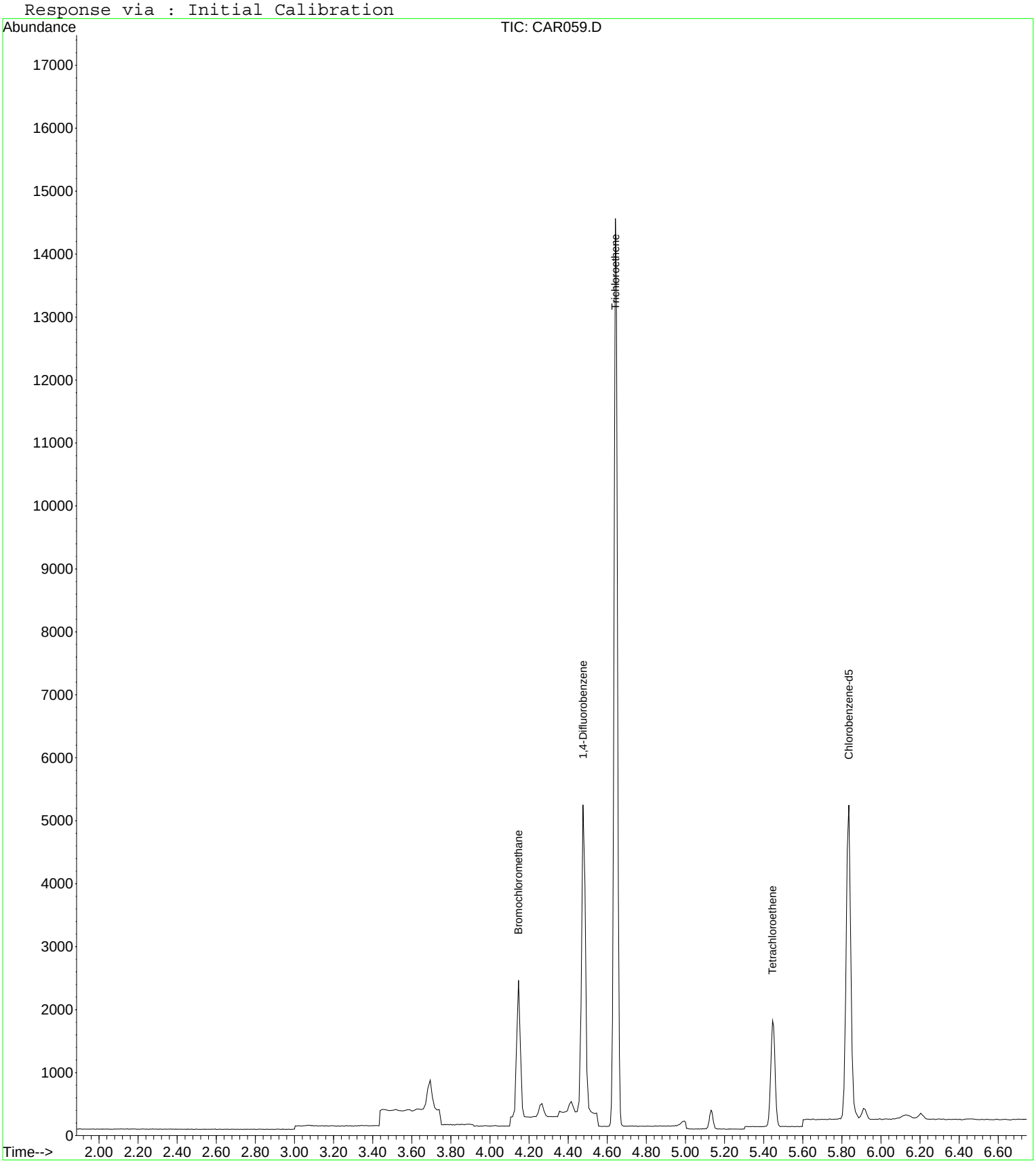
Target Compounds					Qvalue
8) 1,1,1-Trichloroethane	4.27	97	178m	9.71 ppbv	
10) Benzene	4.42	78	179m	6.05 ppbv	
11) Trichloroethene	4.64	130	6387	443.34 ppbv	95
13) Toluene	5.13	91	247	8.89 ppbv	99
14) Tetrachloroethene	5.45	166	1024	61.28 ppbv	96

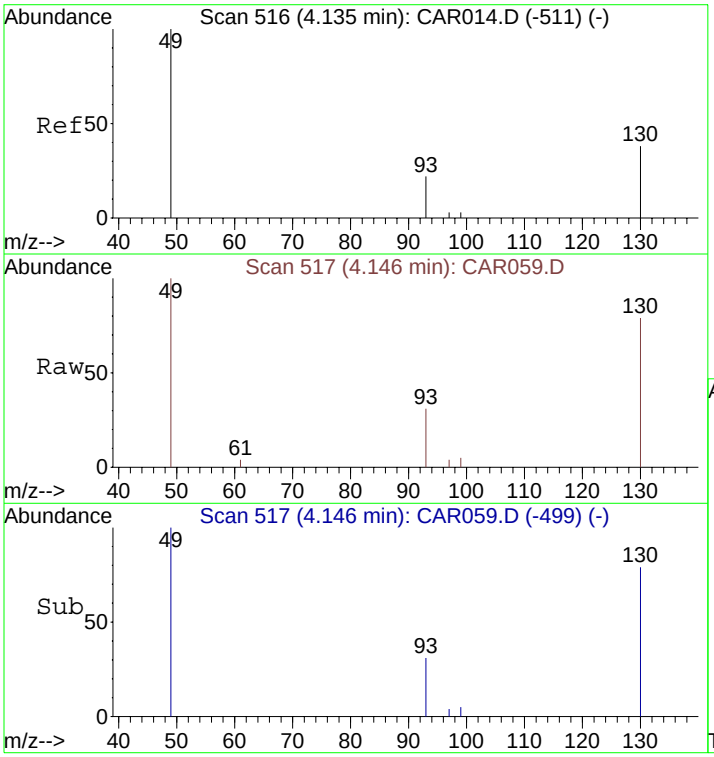
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR059.D Vial: 1
Acq On : 16 Sep 2008 22:53 Operator: dlm
Sample : 51395\B11-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:59 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Thu Oct 02 13:10:18 2008
Response via : Initial Calibration

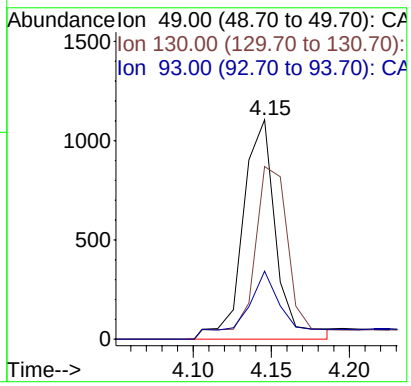


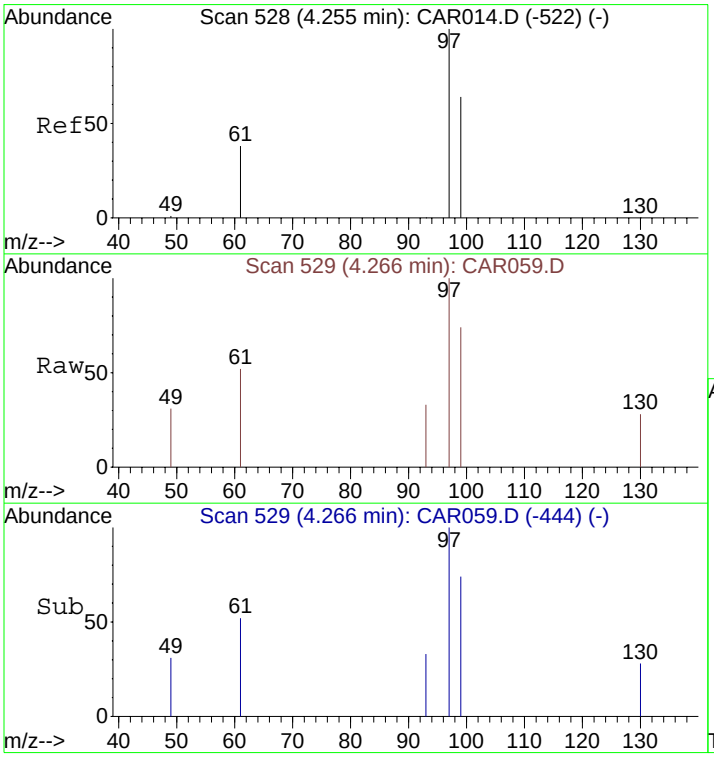


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.15 min Scan# 517
Delta R.T. 0.01 min
Lab File: CAR059.D
Acq: 16 Sep 2008 22:53

Tgt Ion: 49 Resp: 1468

Ion	Ratio	Lower	Upper
49	100		
130	86.6	65.1	97.7
93	36.4	33.8	50.6

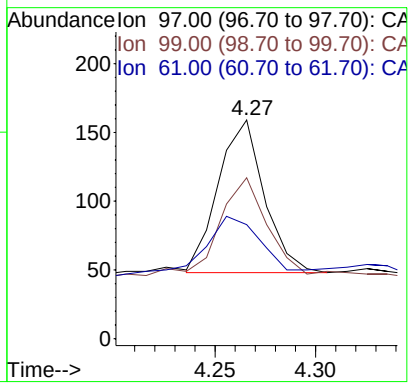


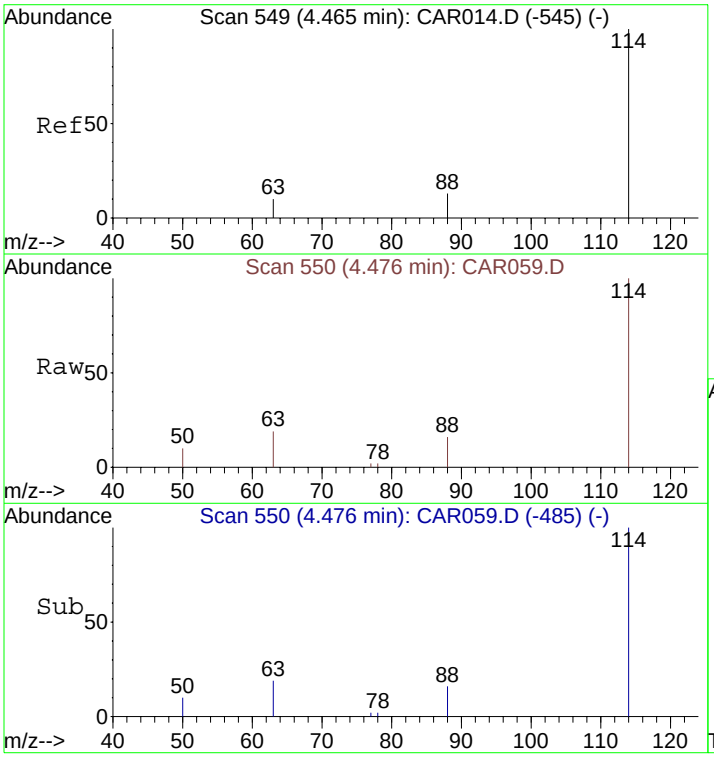


#8
1,1,1-Trichloroethane
Concen: 9.71 ppbv m
RT: 4.27 min Scan# 529
Delta R.T. 0.01 min
Lab File: CAR059.D
Acq: 16 Sep 2008 22:53

Tgt Ion: 97 Resp: 178

Ion	Ratio	Lower	Upper
97	100		
99	61.2	51.8	77.8
61	36.5	32.1	48.1

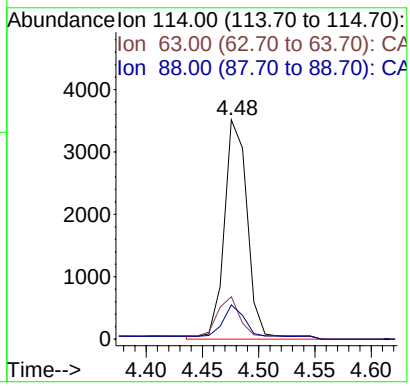


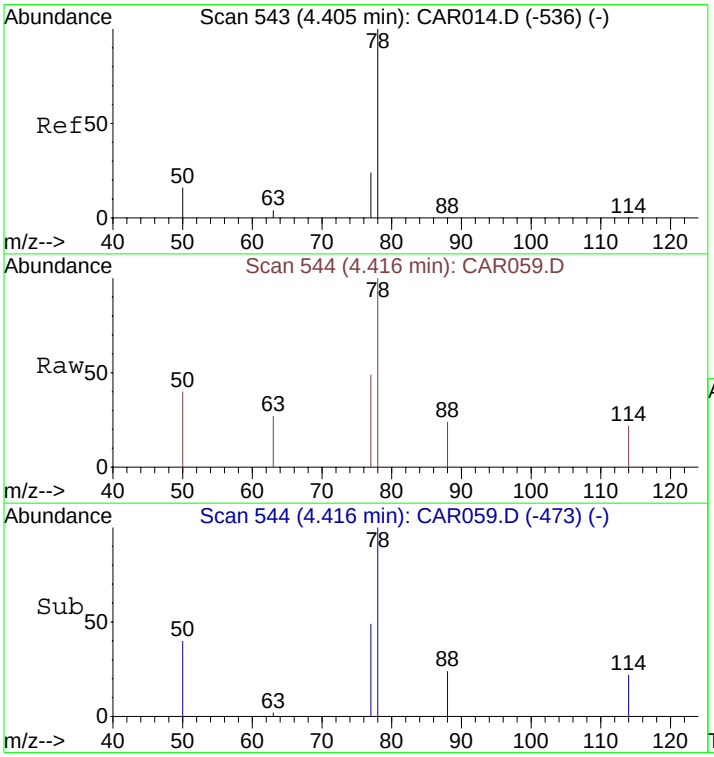


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR059.D
Acq: 16 Sep 2008 22:53

Tgt Ion:114 Resp: 4865

Ion	Ratio	Lower	Upper
114	100		
63	23.1	15.8	23.8
88	18.1	12.2	18.2

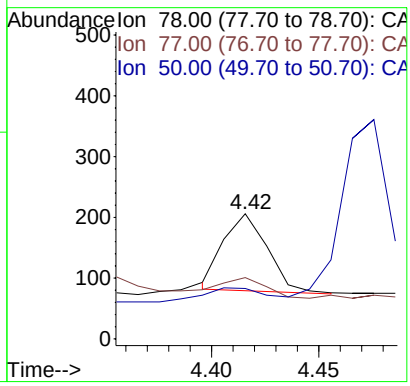


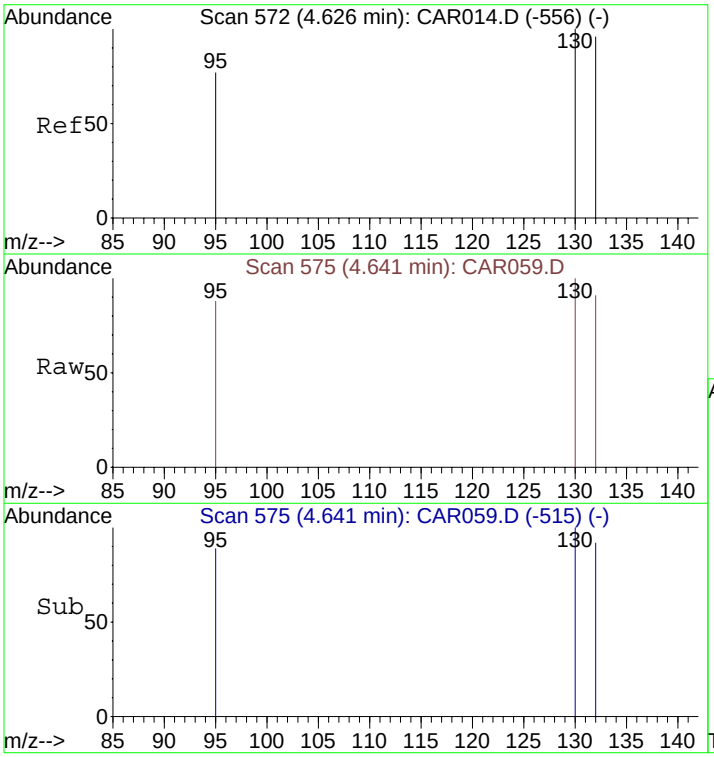


#10
Benzene
Concen: 6.05 ppbv m
RT: 4.42 min Scan# 544
Delta R.T. 0.01 min
Lab File: CAR059.D
Acq: 16 Sep 2008 22:53

Tgt Ion: 78 Resp: 179

Ion	Ratio	Lower	Upper
78	100		
77	16.8	18.6	28.0#
50	25.1	16.2	24.4#

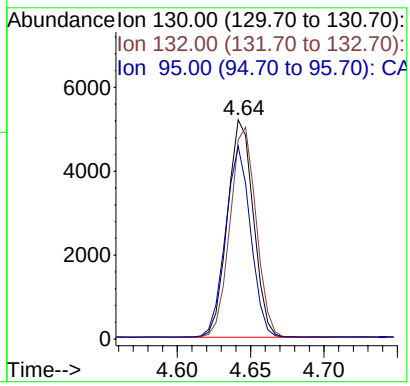


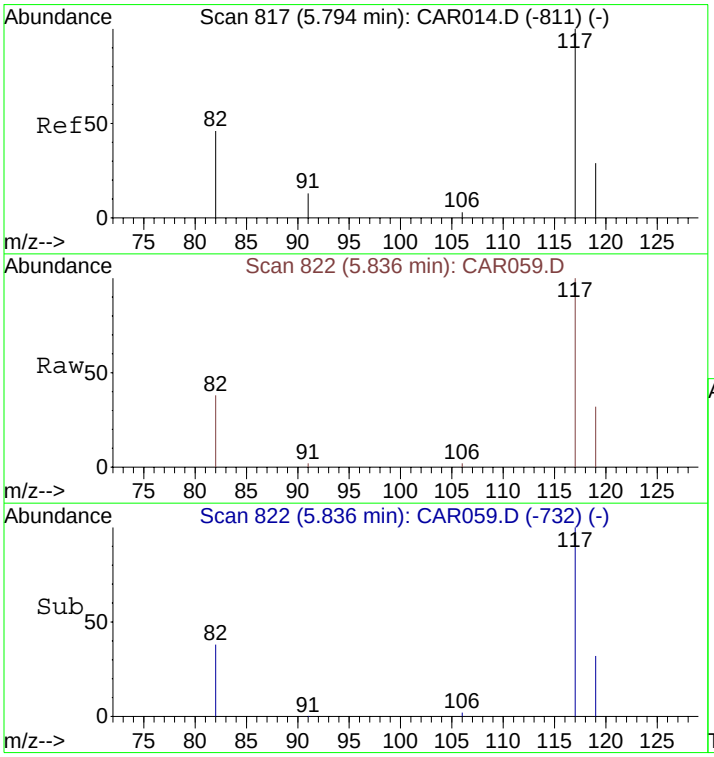


#11
Trichloroethene
Concen: 443.34 ppbv
RT: 4.64 min Scan# 575
Delta R.T. 0.02 min
Lab File: CAR059.D
Acq: 16 Sep 2008 22:53

Tgt Ion:130 Resp: 6387

Ion	Ratio	Lower	Upper
130	100		
132	96.7	73.8	110.6
95	85.0	72.5	108.7

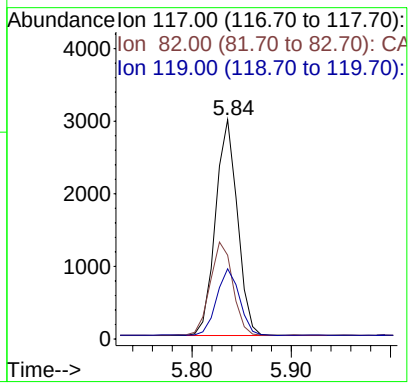


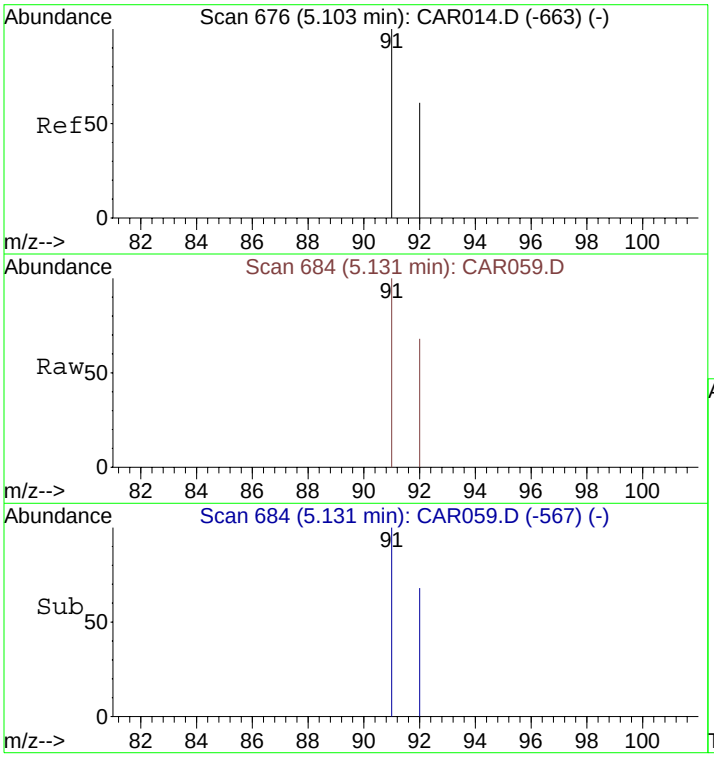


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.84 min Scan# 822
Delta R.T. 0.04 min
Lab File: CAR059.D
Acq: 16 Sep 2008 22:53

Tgt Ion:117 Resp: 4575

Ion	Ratio	Lower	Upper
117	100		
82	44.8	38.3	57.5
119	32.3	26.0	39.0

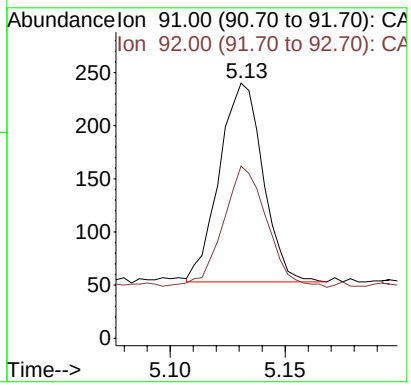


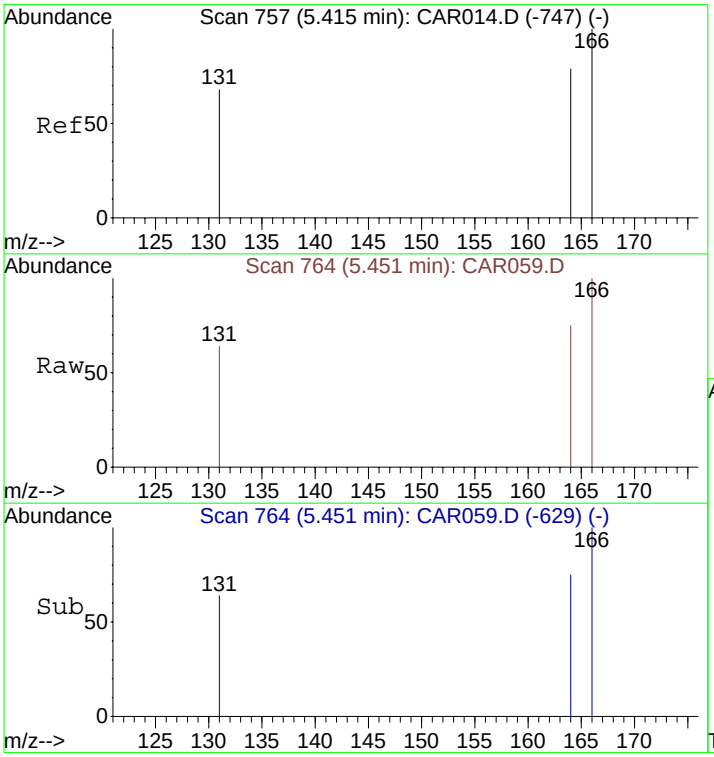


#13
Toluene
Concen: 8.89 ppbv
RT: 5.13 min Scan# 684
Delta R.T. 0.03 min
Lab File: CAR059.D
Acq: 16 Sep 2008 22:53

Tgt Ion: 91 Resp: 247

Ion	Ratio	Lower	Upper
91	100		
92	59.5	48.2	72.2

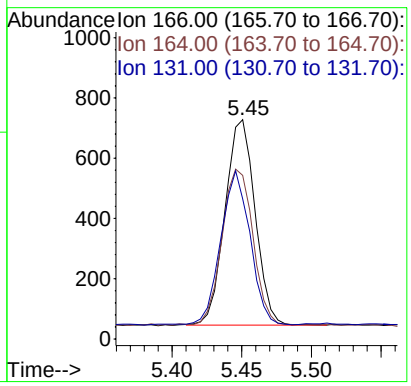




#14
Tetrachloroethene
Concen: 61.28 ppbv
RT: 5.45 min Scan# 764
Delta R.T. 0.04 min
Lab File: CAR059.D
Acq: 16 Sep 2008 22:53

Tgt Ion:166 Resp: 1024

Ion	Ratio	Lower	Upper
166	100		
164	77.3	63.1	94.7
131	72.5	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR060.D Vial: 1
Acq On : 16 Sep 2008 23:04 Operator: dlm
Sample : 51392\C8-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 16 23:12:22 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1576	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	5101	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.81	117	4999	10.00 ppbv	0.02

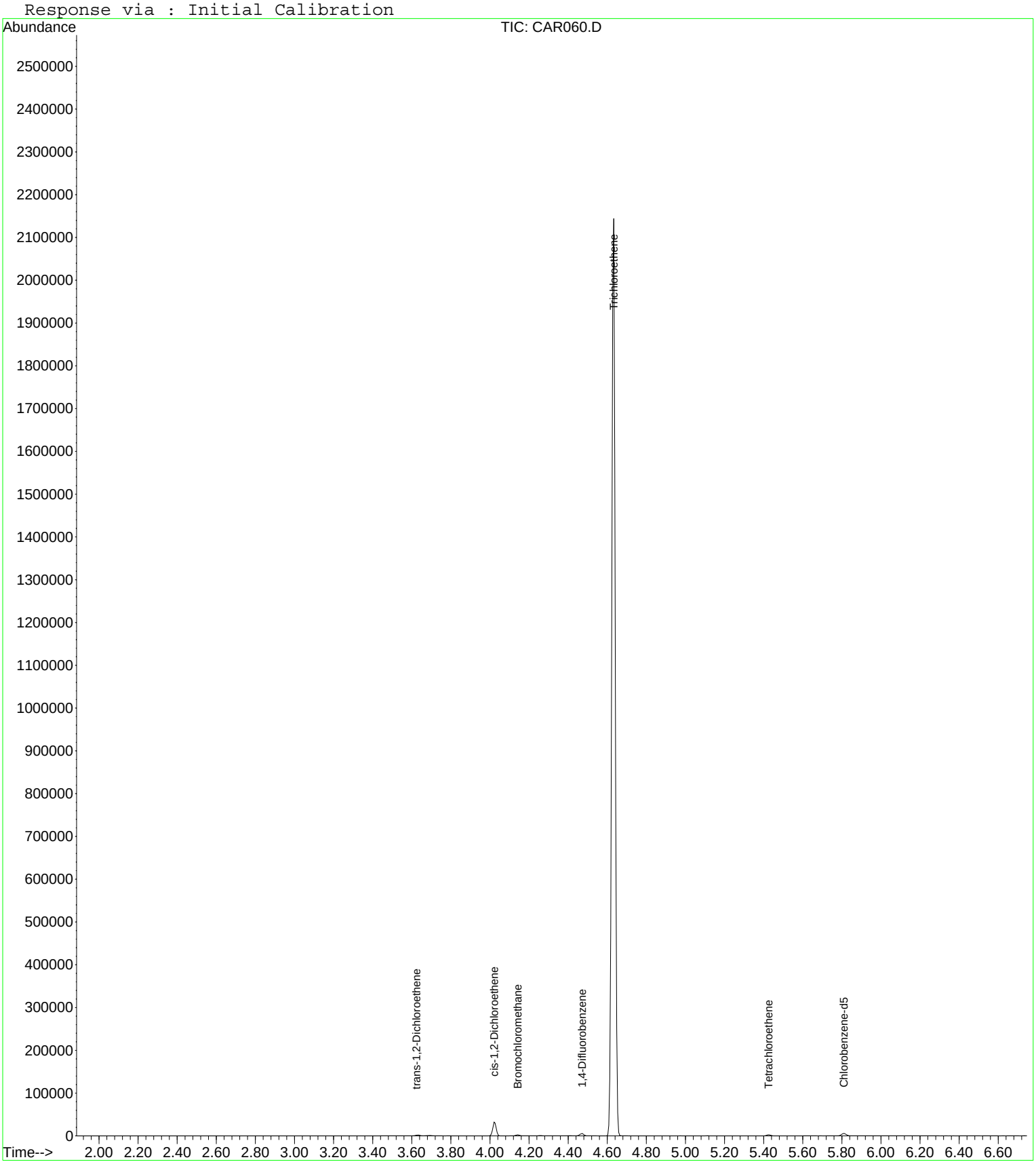
Target Compounds					Qvalue
5) trans-1,2-Dichloroethene	3.62	61	1087	82.09 ppbv	94
6) 1,1-Dichloroethane	3.79	63	180m	10.35 ppbv	
7) cis-1,2-Dichloroethene	4.02	61	16741m	1264.42 ppbv	
8) 1,1,1-Trichloroethane	4.26	97	398m	20.23 ppbv	
10) Benzene	4.41	78	280m	9.03 ppbv	
11) Trichloroethene	4.63	130	928329	61456.89 ppbv	94
13) Toluene	5.11	91	319	10.51 ppbv	98
14) Tetrachloroethene	5.43	166	1422	77.88 ppbv	96
17) o-Xylene	6.19	91	149m	5.25 ppbv	

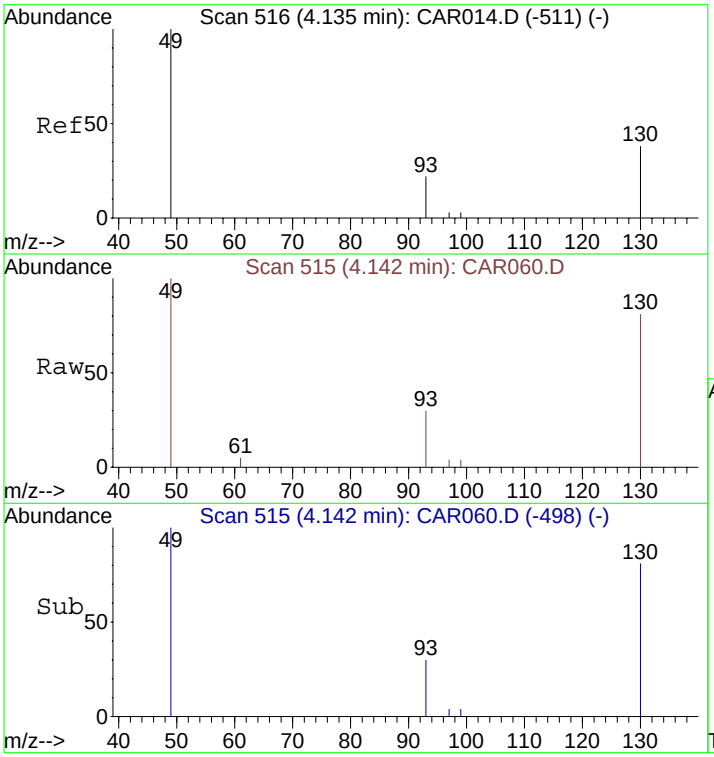
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR060.D Vial: 1
Acq On : 16 Sep 2008 23:04 Operator: dlm
Sample : 51392\C8-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:06 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Thu Oct 02 13:10:18 2008
Response via : Initial Calibration

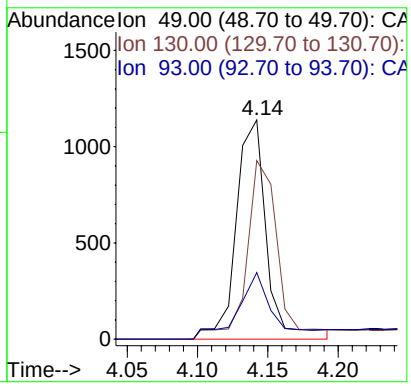


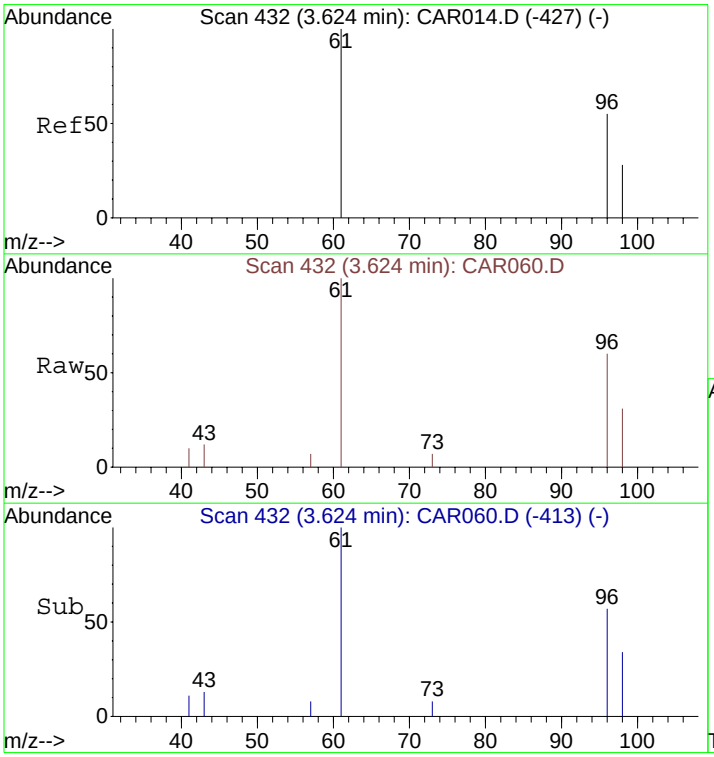


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 515
Delta R.T. 0.01 min
Lab File: CAR060.D
Acq: 16 Sep 2008 23:04

Tgt Ion: 49 Resp: 1576

Ion	Ratio	Lower	Upper
49	100		
130	80.5	65.1	97.7
93	34.6	33.8	50.6

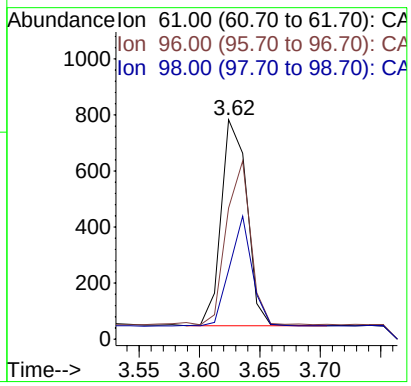


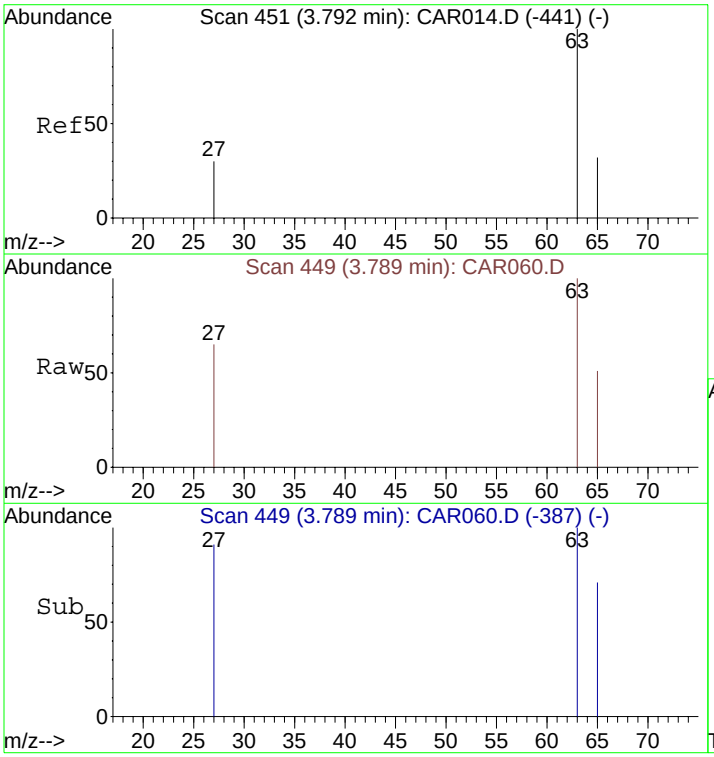


#5
trans-1,2-Dichloroethene
Concen: 82.09 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR060.D
Acq: 16 Sep 2008 23:04

Tgt Ion: 61 Resp: 1087

Ion	Ratio	Lower	Upper
61	100		
96	75.0	55.0	82.4
98	46.6	35.6	53.4

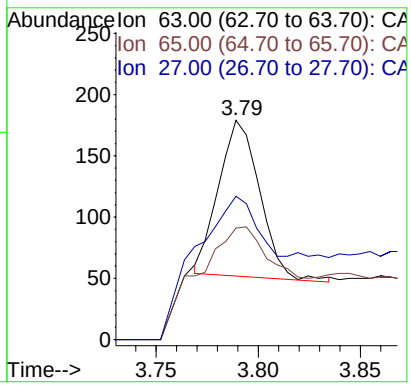


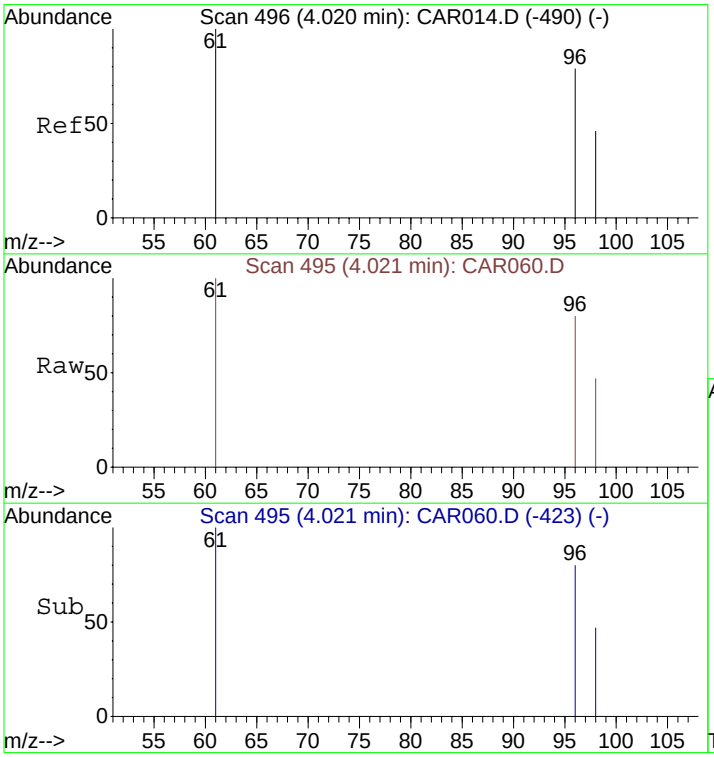


#6
1,1-Dichloroethane
Concen: 10.35 ppbv m
RT: 3.79 min Scan# 449
Delta R.T. -0.00 min
Lab File: CAR060.D
Acq: 16 Sep 2008 23:04

Tgt Ion: 63 Resp: 180

Ion	Ratio	Lower	Upper
63	100		
65	38.9	23.5	35.3#
27	37.8	26.7	40.1

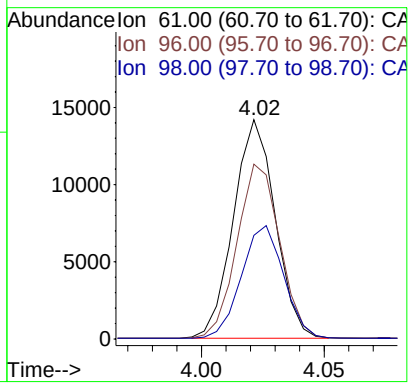


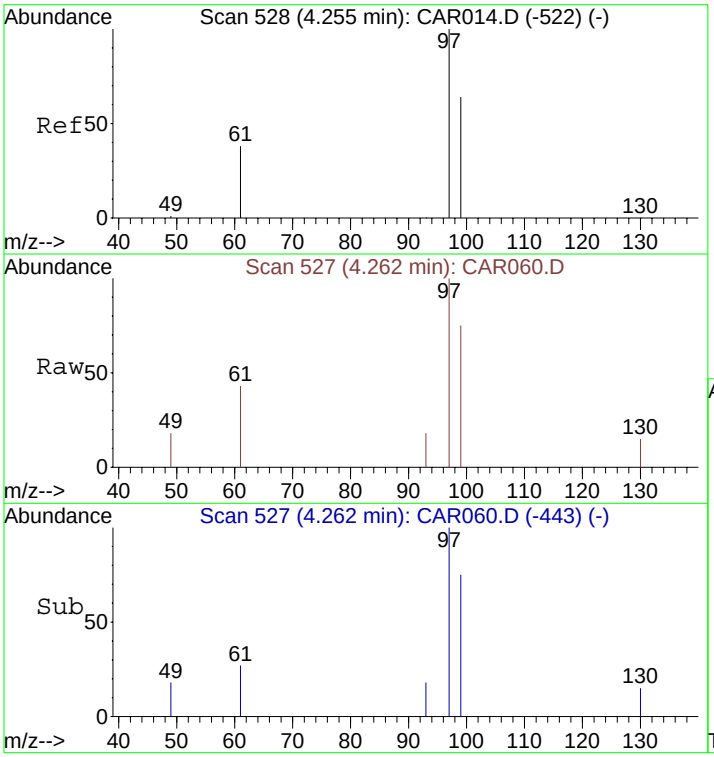


#7
cis-1,2-Dichloroethene
Concen: 1264.42 ppbv m
RT: 4.02 min Scan# 495
Delta R.T. 0.00 min
Lab File: CAR060.D
Acq: 16 Sep 2008 23:04

Tgt Ion: 61 Resp: 16741

Ion	Ratio	Lower	Upper
61	100		
96	82.5	56.0	84.0
98	53.2	36.2	54.4

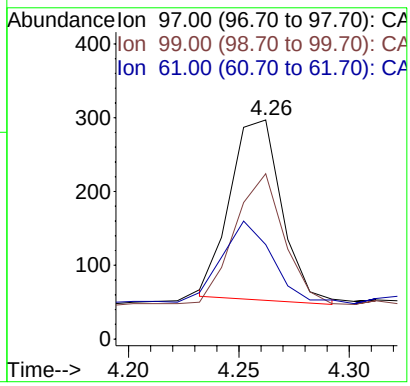


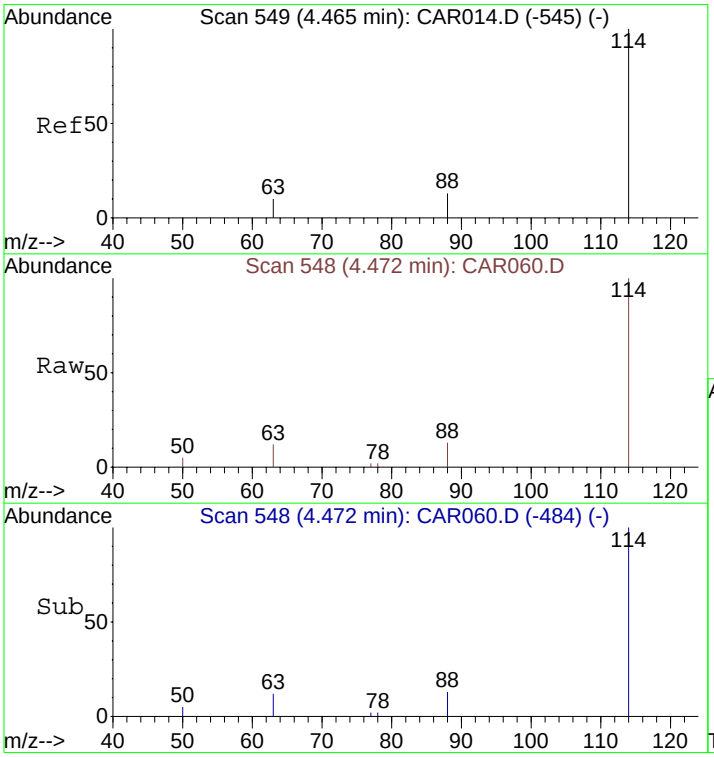


#8
1,1,1-Trichloroethane
Concen: 20.23 ppbv m
RT: 4.26 min Scan# 527
Delta R.T. 0.01 min
Lab File: CAR060.D
Acq: 16 Sep 2008 23:04

Tgt Ion: 97 Resp: 398

Ion	Ratio	Lower	Upper
97	100		
99	69.6	51.8	77.8
61	48.7	32.1	48.1#

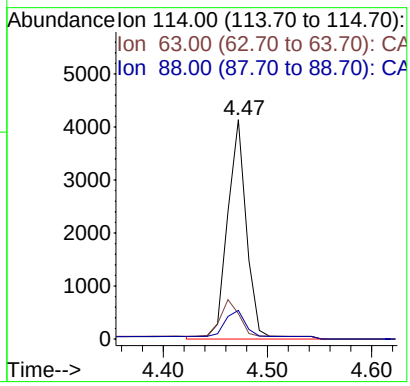


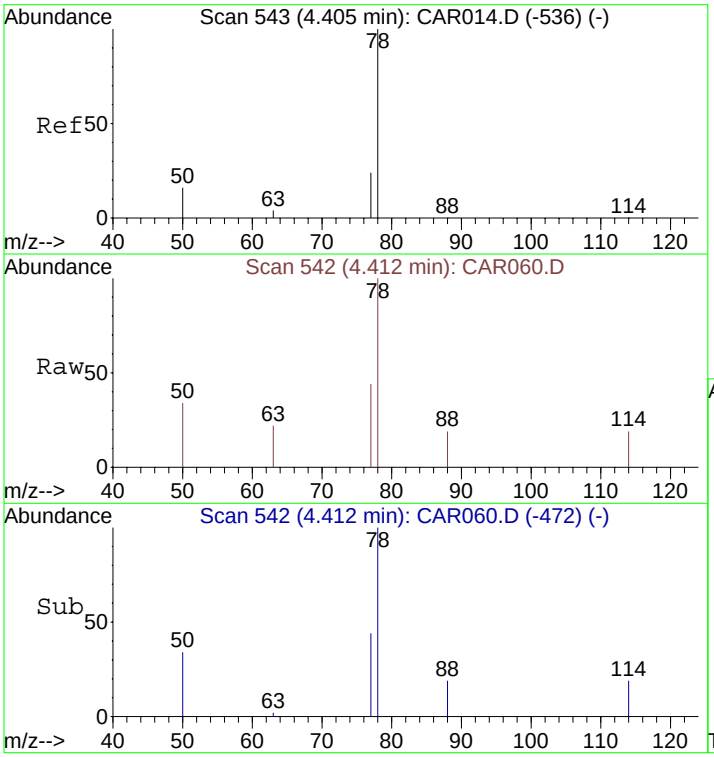


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 548
Delta R.T. 0.01 min
Lab File: CAR060.D
Acq: 16 Sep 2008 23:04

Tgt Ion:114 Resp: 5101

Ion	Ratio	Lower	Upper
114	100		
63	23.3	15.8	23.8
88	23.2	12.2	18.2#

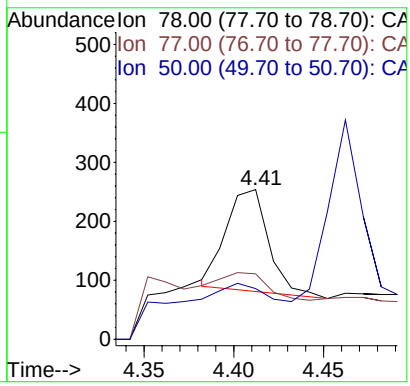


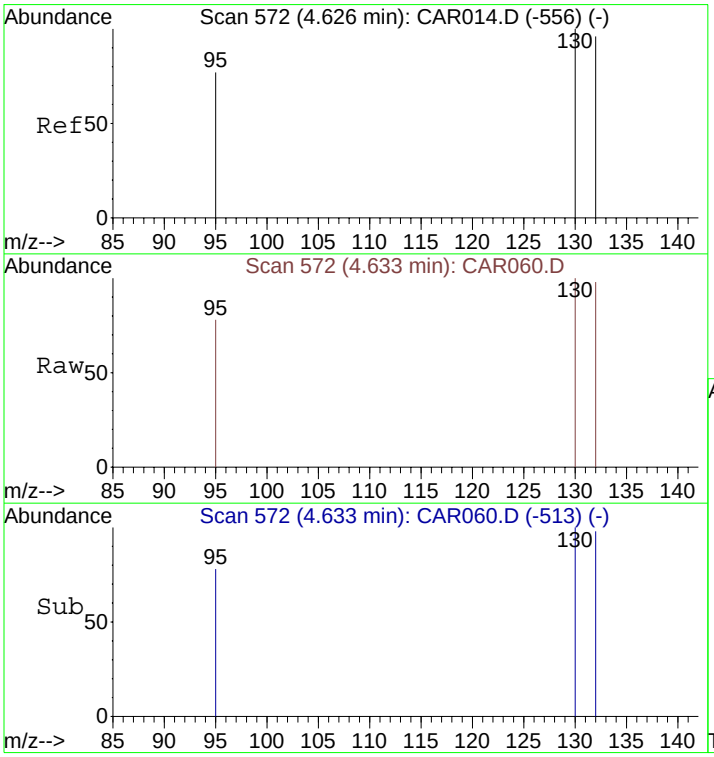


#10
Benzene
Concen: 9.03 ppbv m
RT: 4.41 min Scan# 542
Delta R.T. 0.01 min
Lab File: CAR060.D
Acq: 16 Sep 2008 23:04

Tgt Ion: 78 Resp: 280

Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.6	28.0
50	18.2	16.2	24.4

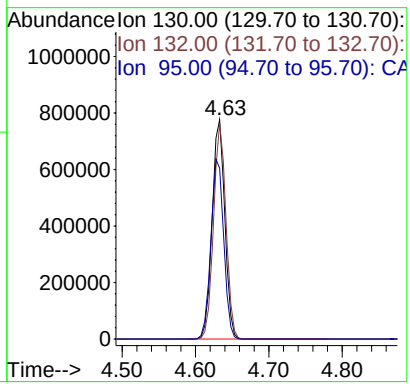


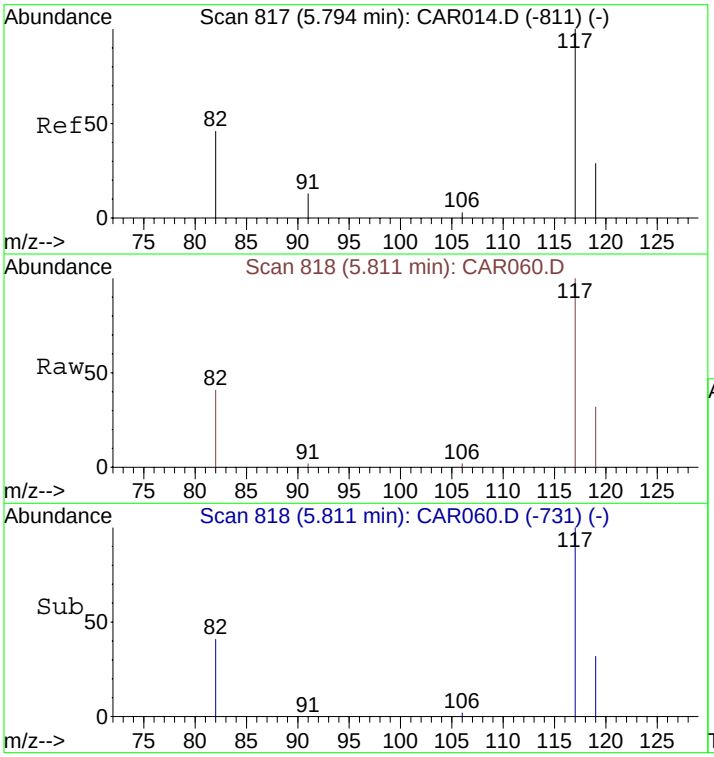


#11
Trichloroethene
Concen: 61456.89 ppbv
RT: 4.63 min Scan# 572
Delta R.T. 0.01 min
Lab File: CAR060.D
Acq: 16 Sep 2008 23:04

Tgt Ion:130 Resp: 928329

Ion	Ratio	Lower	Upper
130	100		
132	96.6	73.8	110.6
95	83.5	72.5	108.7

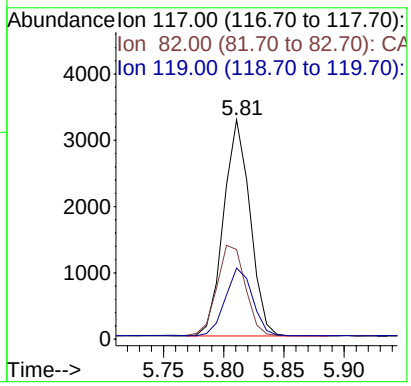


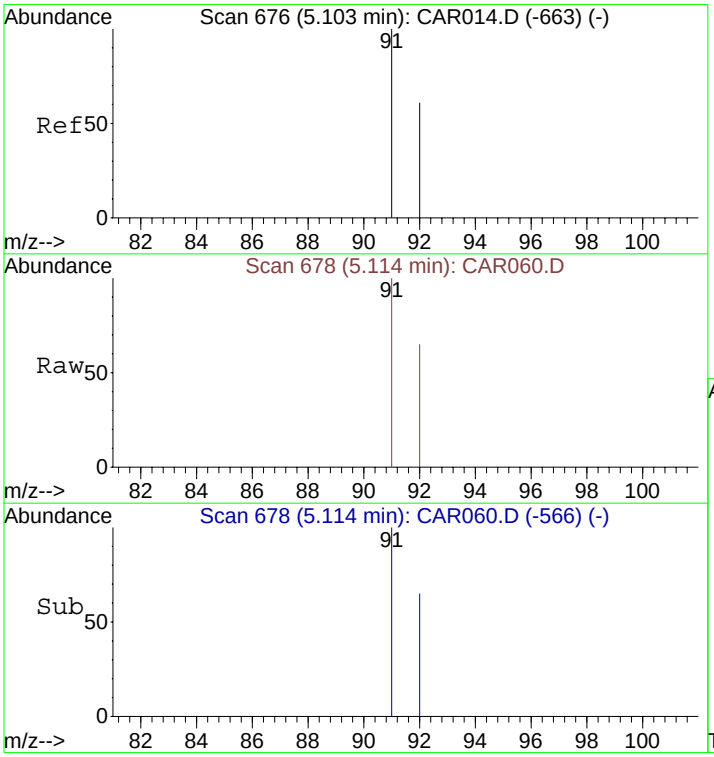


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.81 min Scan# 818
Delta R.T. 0.02 min
Lab File: CAR060.D
Acq: 16 Sep 2008 23:04

Tgt Ion:117 Resp: 4999

Ion	Ratio	Lower	Upper
117	100		
82	45.0	38.3	57.5
119	32.0	26.0	39.0

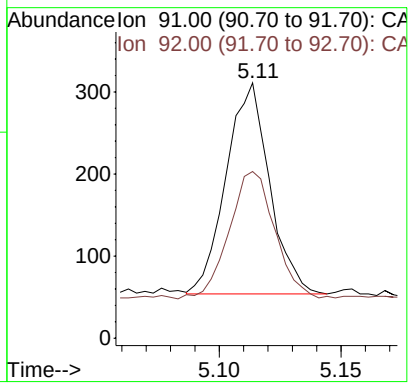


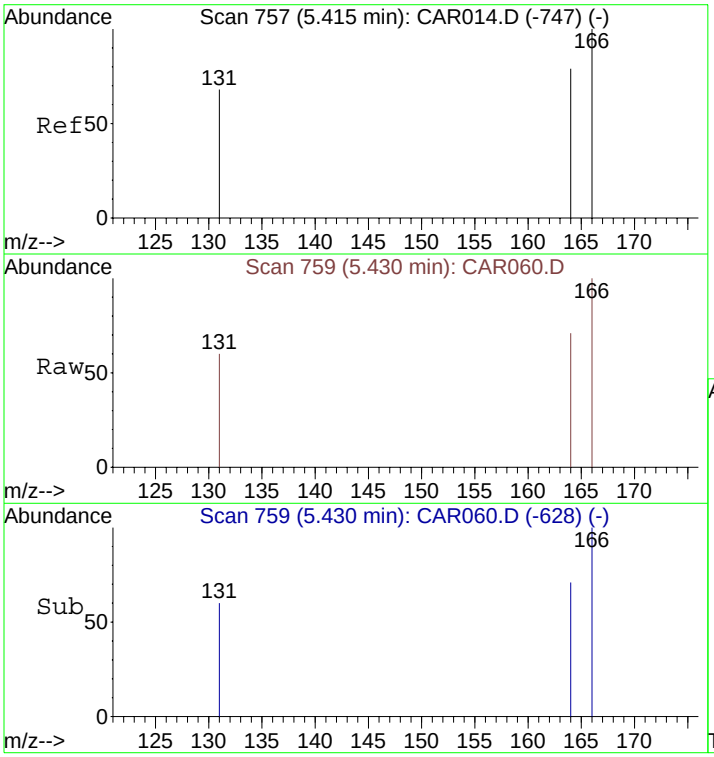


#13
Toluene
Concen: 10.51 ppbv
RT: 5.11 min Scan# 678
Delta R.T. 0.01 min
Lab File: CAR060.D
Acq: 16 Sep 2008 23:04

Tgt Ion: 91 Resp: 319

Ion	Ratio	Lower	Upper
91	100		
92	62.1	48.2	72.2

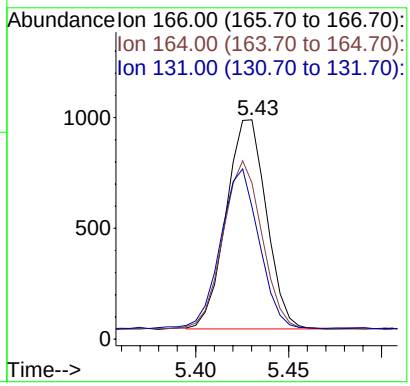


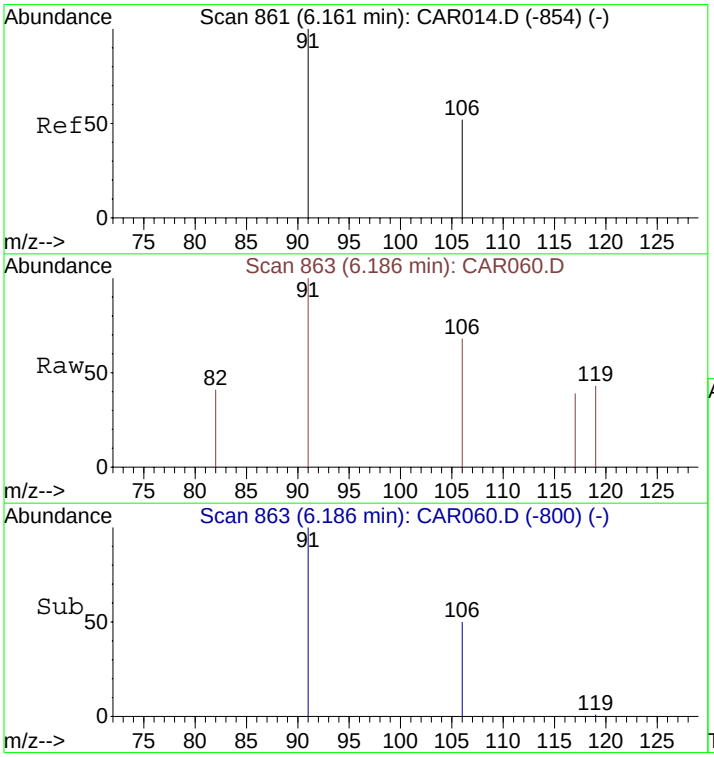


#14
Tetrachloroethene
Concen: 77.88 ppbv
RT: 5.43 min Scan# 759
Delta R.T. 0.02 min
Lab File: CAR060.D
Acq: 16 Sep 2008 23:04

Tgt Ion:166 Resp: 1422

Ion	Ratio	Lower	Upper
166	100		
164	78.5	63.1	94.7
131	72.2	62.9	94.3

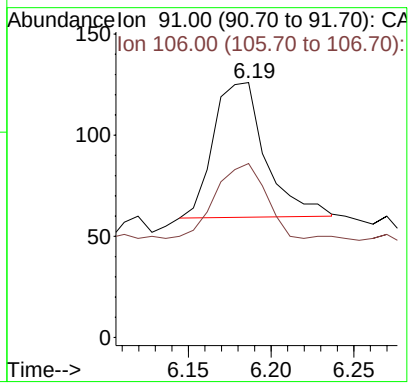




#17
o-Xylene
Concen: 5.25 ppbv m
RT: 6.19 min Scan# 863
Delta R.T. 0.03 min
Lab File: CAR060.D
Acq: 16 Sep 2008 23:04

Tgt Ion: 91 Resp: 149

Ion	Ratio	Lower	Upper
91	100		
106	47.7	38.9	58.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR061.D Vial: 1
Acq On : 16 Sep 2008 23:15 Operator: dlm
Sample : 51400\C10-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 16 23:23:56 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1588	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	5073	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.81	117	4748	10.00 ppbv	0.02

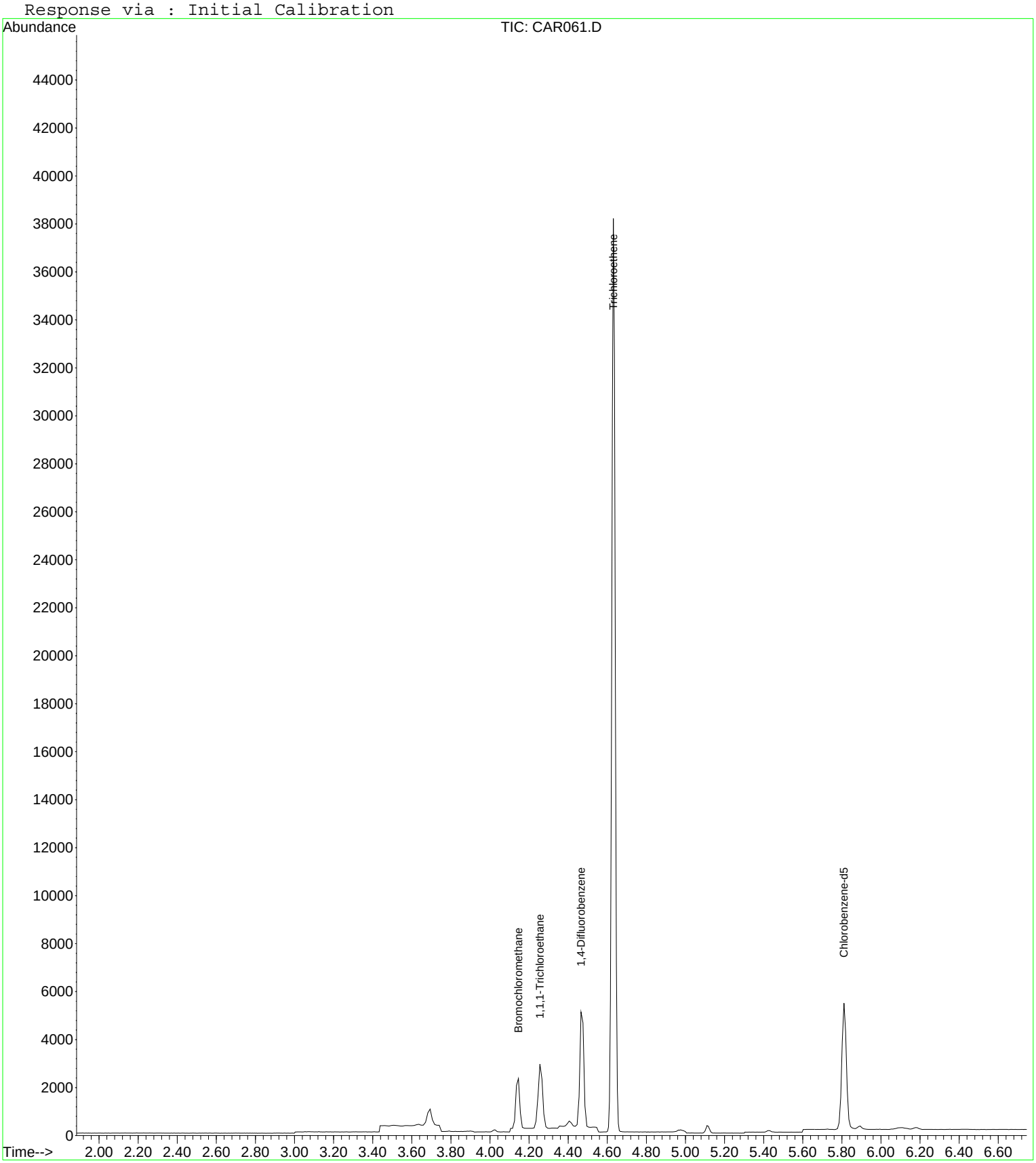
Target Compounds					Qvalue
8) 1,1,1-Trichloroethane	4.26	97	2075m	104.68 ppbv	
10) Benzene	4.41	78	220m	7.13 ppbv	
11) Trichloroethene	4.63	130	16271	1083.11 ppbv	95
13) Toluene	5.11	91	261	9.05 ppbv	97

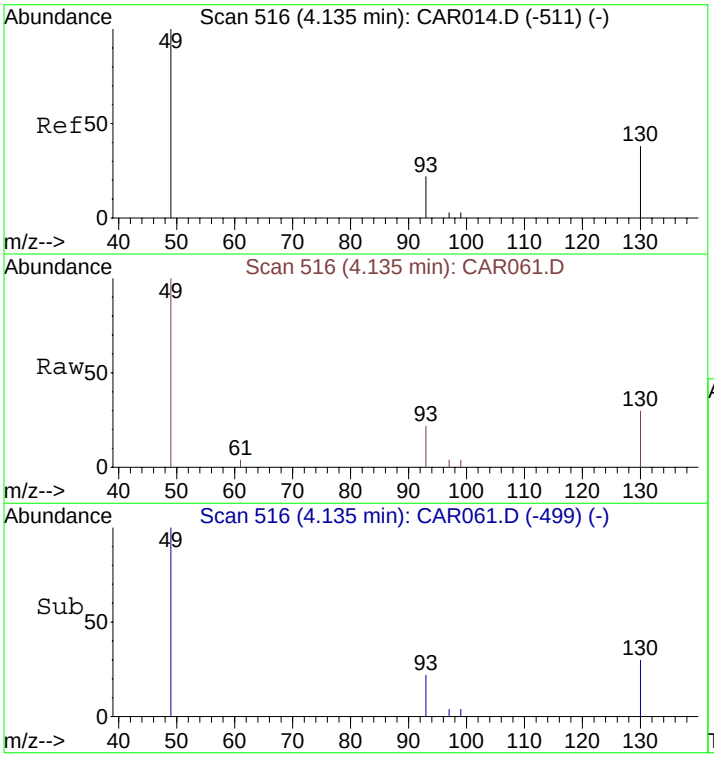
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR061.D Vial: 1
Acq On : 16 Sep 2008 23:15 Operator: dlm
Sample : 51400\C10-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:08 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Thu Oct 02 13:10:18 2008
Response via : Initial Calibration

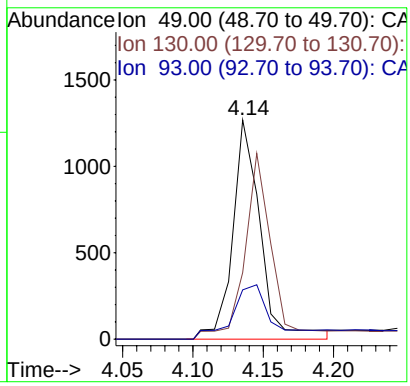


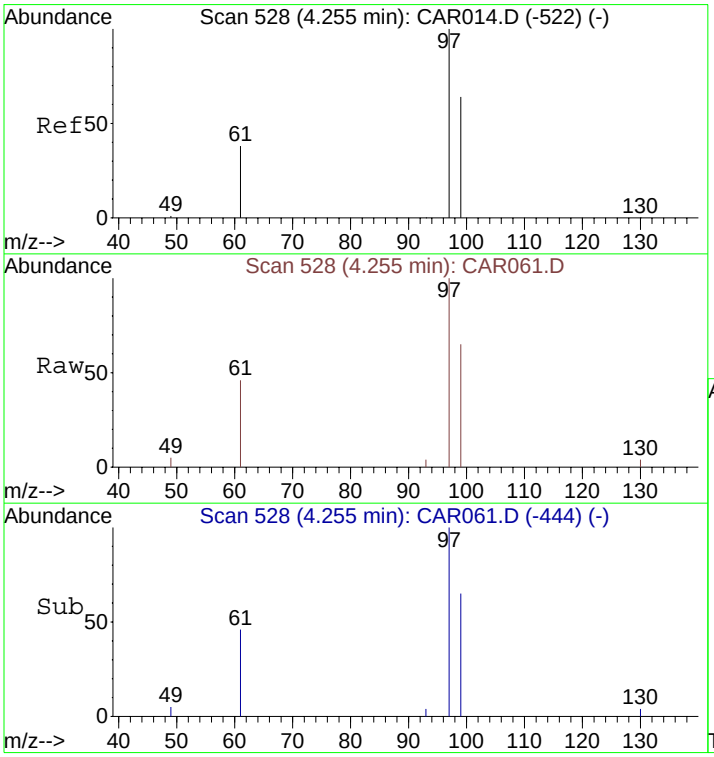


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. -0.00 min
Lab File: CAR061.D
Acq: 16 Sep 2008 23:15

Tgt Ion: 49 Resp: 1588

Ion	Ratio	Lower	Upper
49	100		
130	82.6	65.1	97.7
93	35.2	33.8	50.6

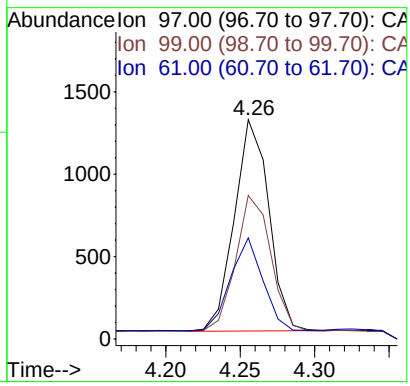


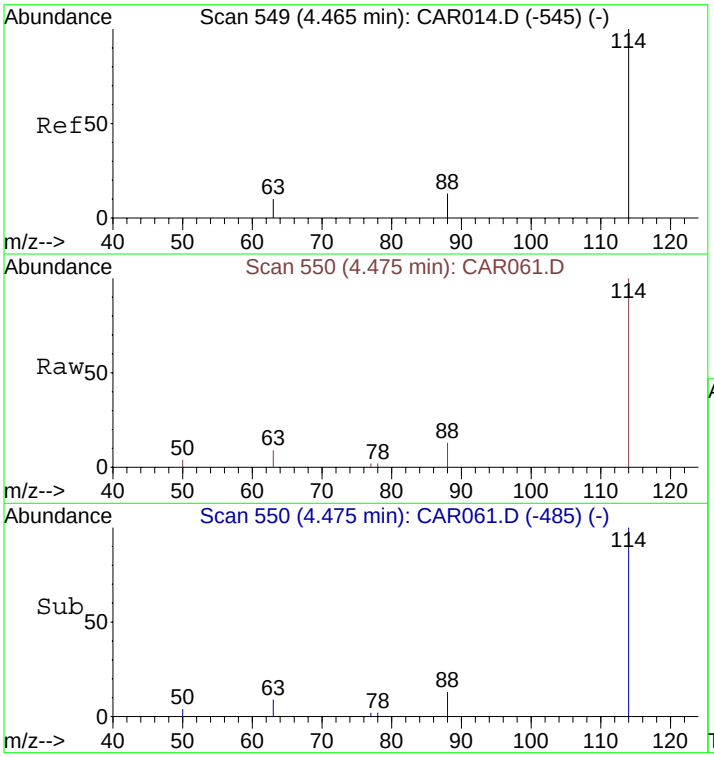


#8
1,1,1-Trichloroethane
Concen: 104.68 ppbv m
RT: 4.26 min Scan# 528
Delta R.T. 0.00 min
Lab File: CAR061.D
Acq: 16 Sep 2008 23:15

Tgt Ion: 97 Resp: 2075

Ion	Ratio	Lower	Upper
97	100		
99	67.5	51.8	77.8
61	41.2	32.1	48.1

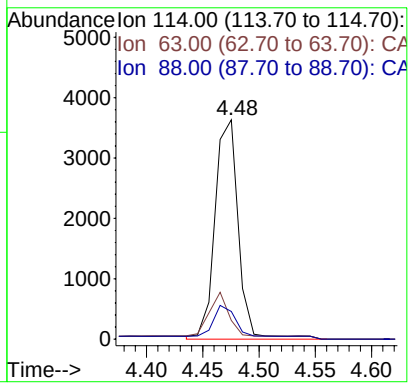


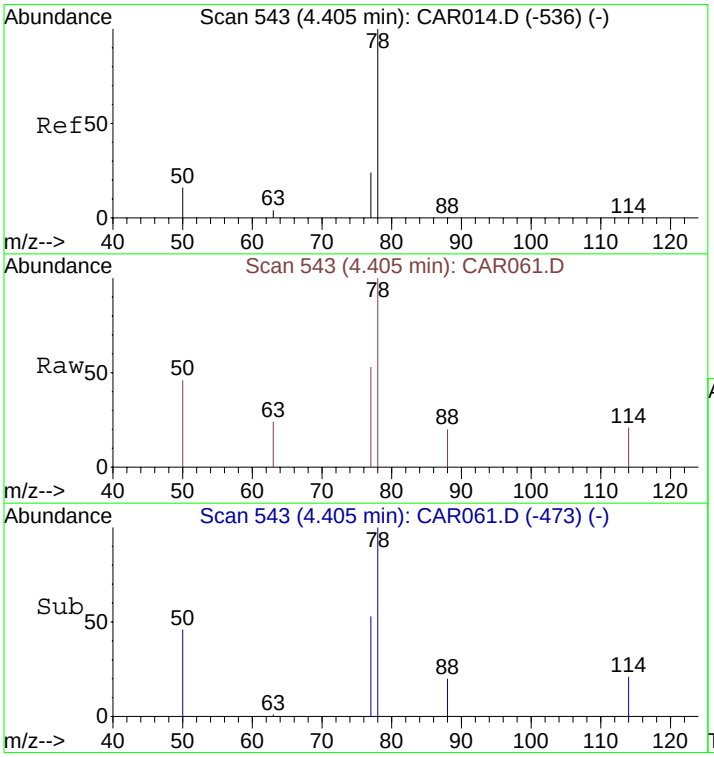


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR061.D
Acq: 16 Sep 2008 23:15

Tgt Ion:114 Resp: 5073

Ion	Ratio	Lower	Upper
114	100		
63	18.4	15.8	23.8
88	18.5	12.2	18.2#

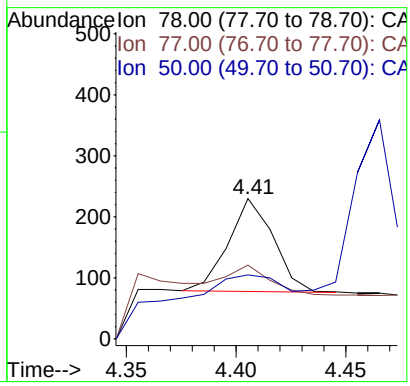


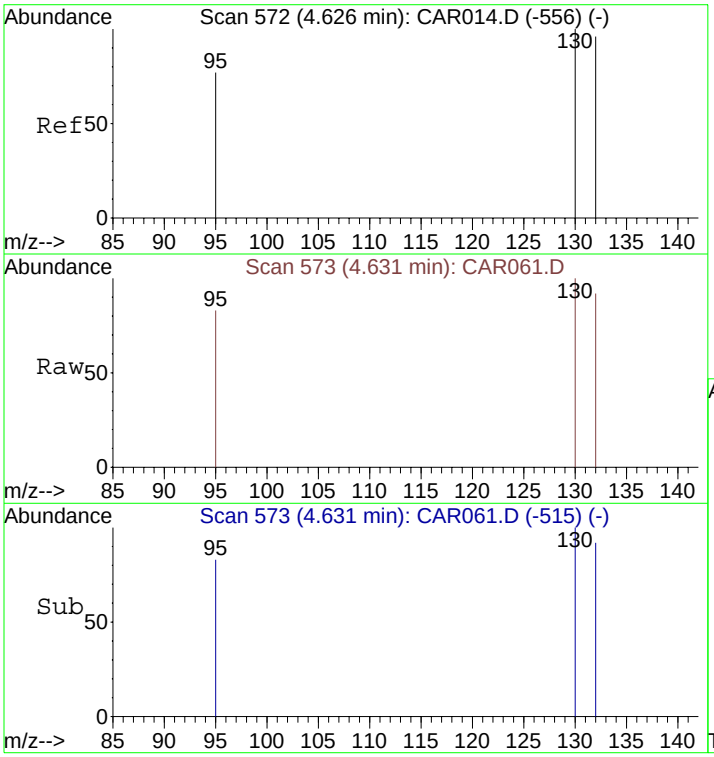


#10
Benzene
Concen: 7.13 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. -0.00 min
Lab File: CAR061.D
Acq: 16 Sep 2008 23:15

Tgt Ion: 78 Resp: 220

Ion	Ratio	Lower	Upper
78	100		
77	19.5	18.6	28.0
50	26.4	16.2	24.4#

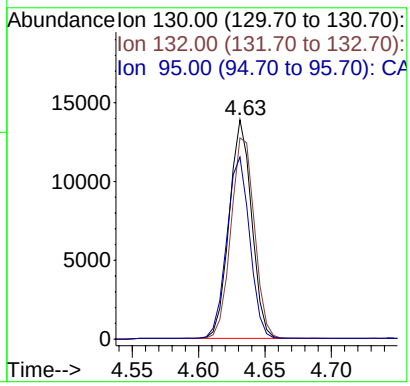


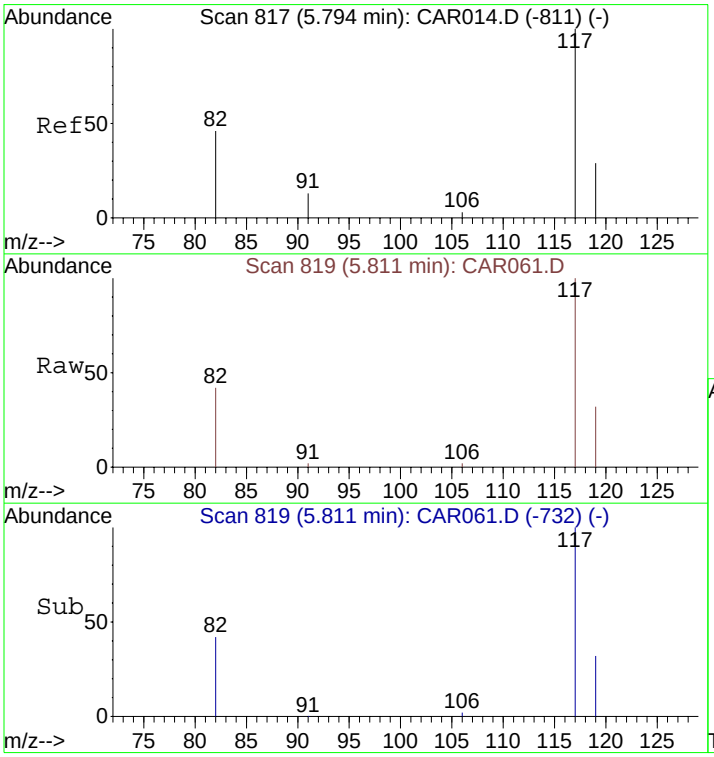


#11
Trichloroethene
Concen: 1083.11 ppbv
RT: 4.63 min Scan# 573
Delta R.T. 0.01 min
Lab File: CAR061.D
Acq: 16 Sep 2008 23:15

Tgt Ion:130 Resp: 16271

Ion	Ratio	Lower	Upper
130	100		
132	96.1	73.8	110.6
95	84.6	72.5	108.7

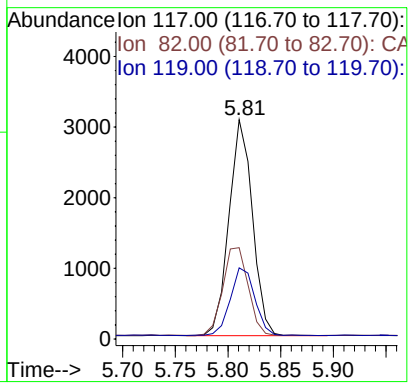


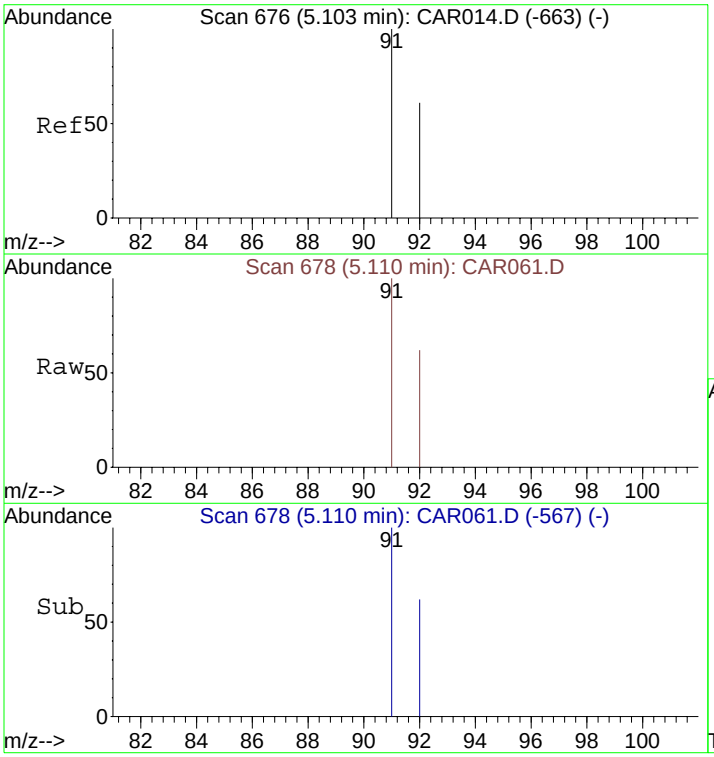


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.81 min Scan# 819
Delta R.T. 0.02 min
Lab File: CAR061.D
Acq: 16 Sep 2008 23:15

Tgt Ion:117 Resp: 4748

Ion	Ratio	Lower	Upper
117	100		
82	44.2	38.3	57.5
119	32.9	26.0	39.0

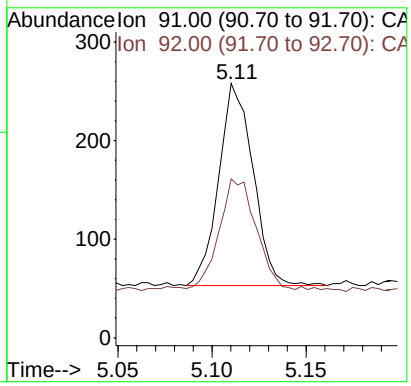




#13
Toluene
Concen: 9.05 ppbv
RT: 5.11 min Scan# 678
Delta R.T. 0.01 min
Lab File: CAR061.D
Acq: 16 Sep 2008 23:15

Tgt Ion: 91 Resp: 261

Ion	Ratio	Lower	Upper
91	100		
92	58.2	48.2	72.2



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR062.D Vial: 1
Acq On : 16 Sep 2008 23:26 Operator: dlm
Sample : 51398\C11-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 16 23:33:46 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1571	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	5065	10.00 ppbv	0.01
12) Chlorobenzene-d5	5.83	117	4798	10.00 ppbv	0.03

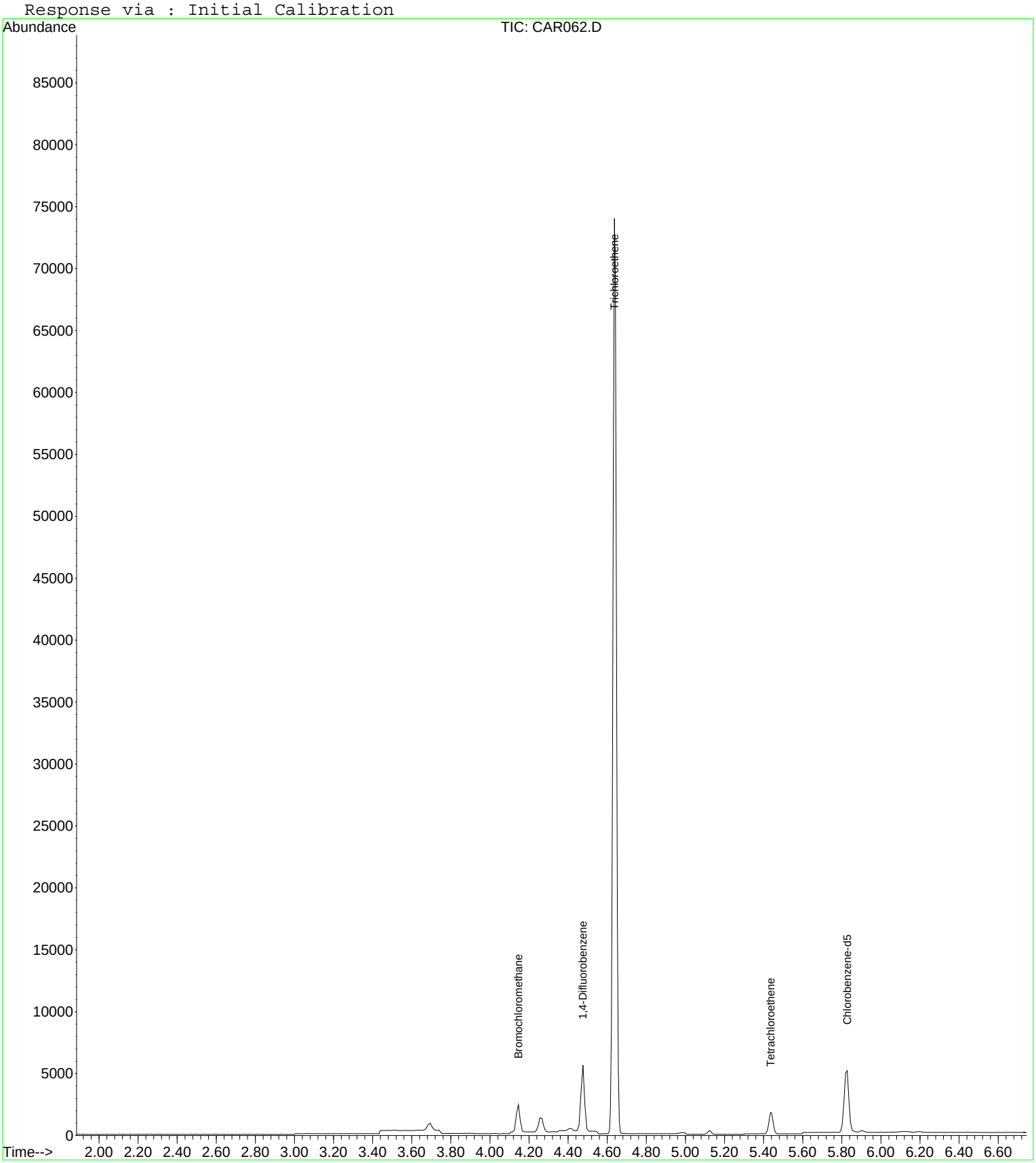
Target Compounds					Qvalue
8) 1,1,1-Trichloroethane	4.27	97	941	47.99 ppbv	97
10) Benzene	4.41	78	235m	7.63 ppbv	
11) Trichloroethene	4.64	130	32557	2170.65 ppbv	95
13) Toluene	5.12	91	243	8.34 ppbv	98
14) Tetrachloroethene	5.44	166	1030	58.77 ppbv	96

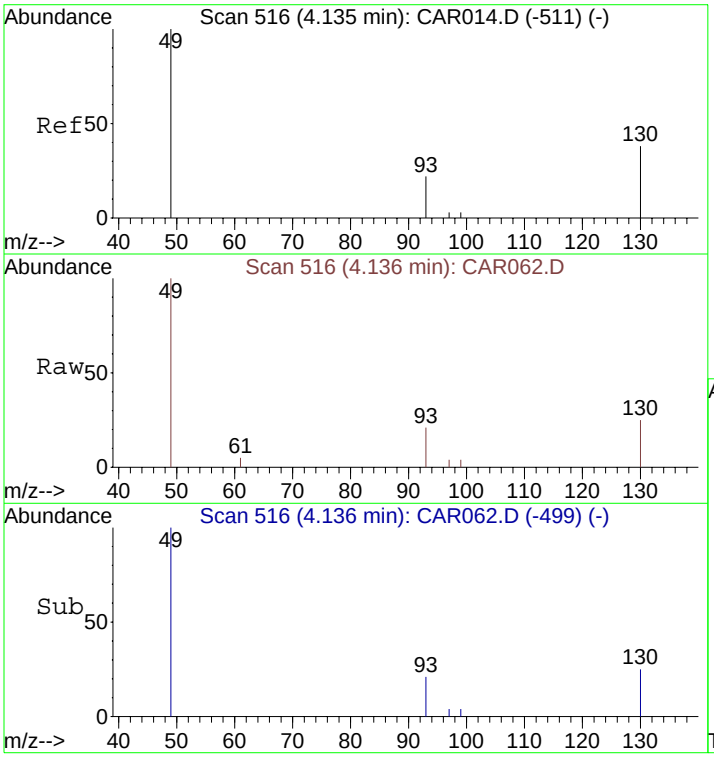
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR062.D Vial: 1
Acq On : 16 Sep 2008 23:26 Operator: dlm
Sample : 51398\C11-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:10 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Thu Oct 02 13:10:18 2008
Response via : Initial Calibration

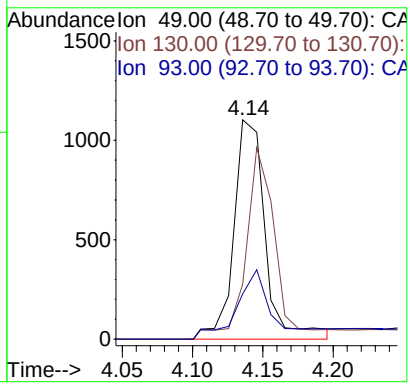


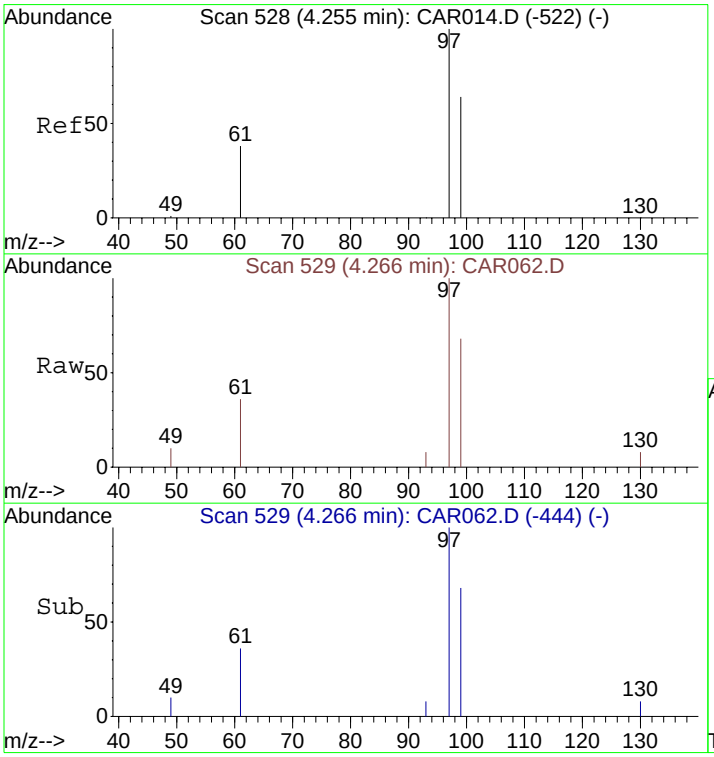


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR062.D
Acq: 16 Sep 2008 23:26

Tgt Ion: 49 Resp: 1571

Ion	Ratio	Lower	Upper
49	100		
130	79.0	65.1	97.7
93	35.0	33.8	50.6

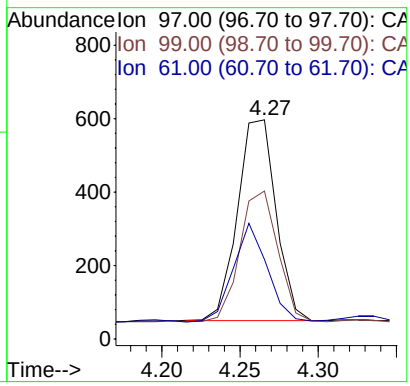


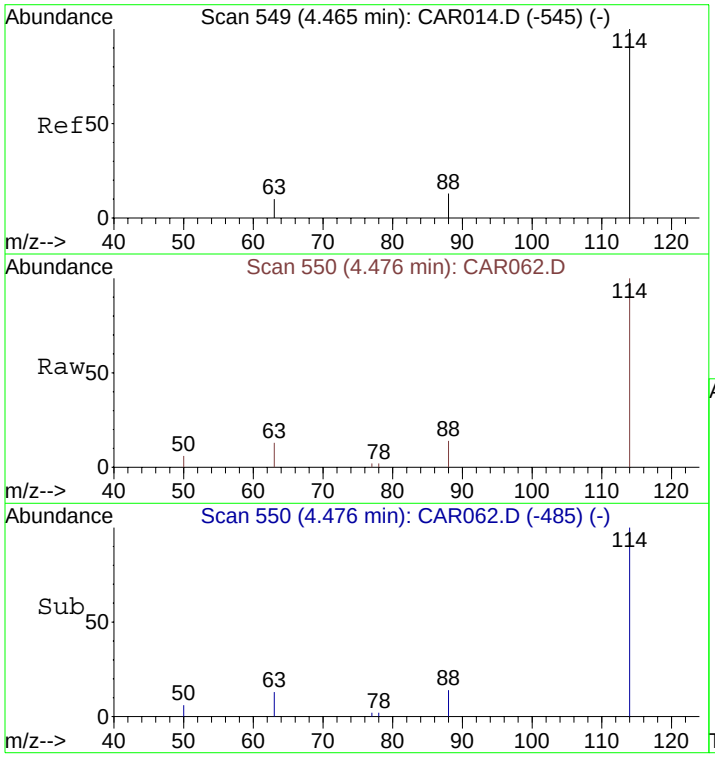


#8
1,1,1-Trichloroethane
Concen: 47.99 ppbv
RT: 4.27 min Scan# 529
Delta R.T. 0.01 min
Lab File: CAR062.D
Acq: 16 Sep 2008 23:26

Tgt Ion: 97 Resp: 941

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.8	77.8
61	43.5	32.1	48.1

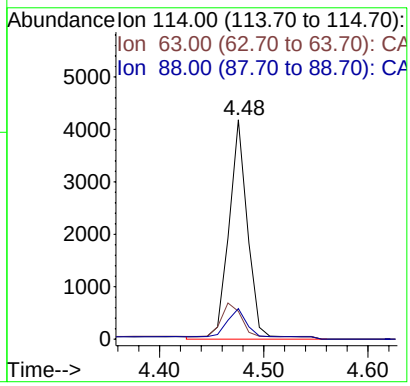


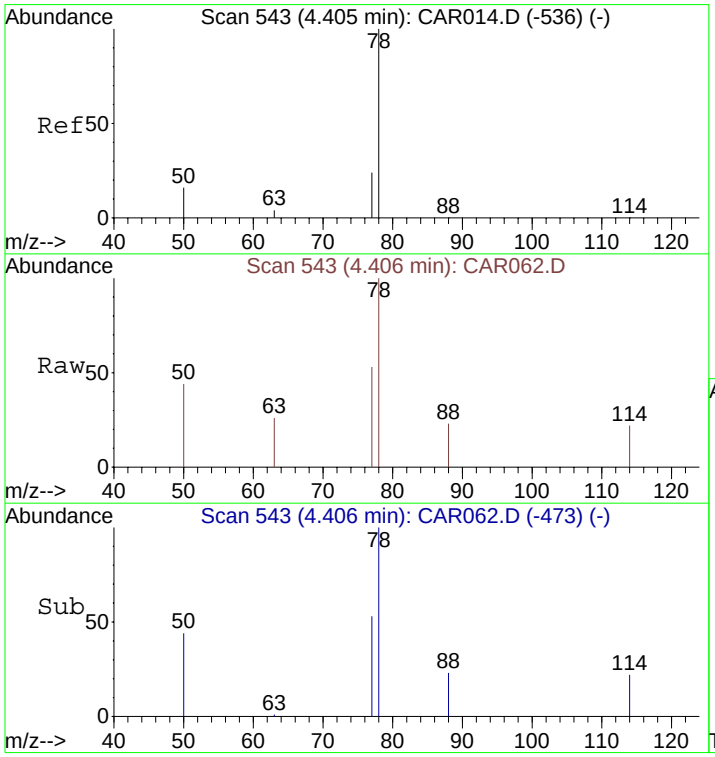


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR062.D
Acq: 16 Sep 2008 23:26

Tgt Ion:114 Resp: 5065

Ion	Ratio	Lower	Upper
114	100		
63	17.6	15.8	23.8
88	14.3	12.2	18.2

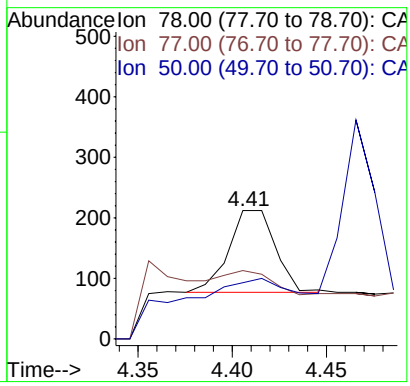


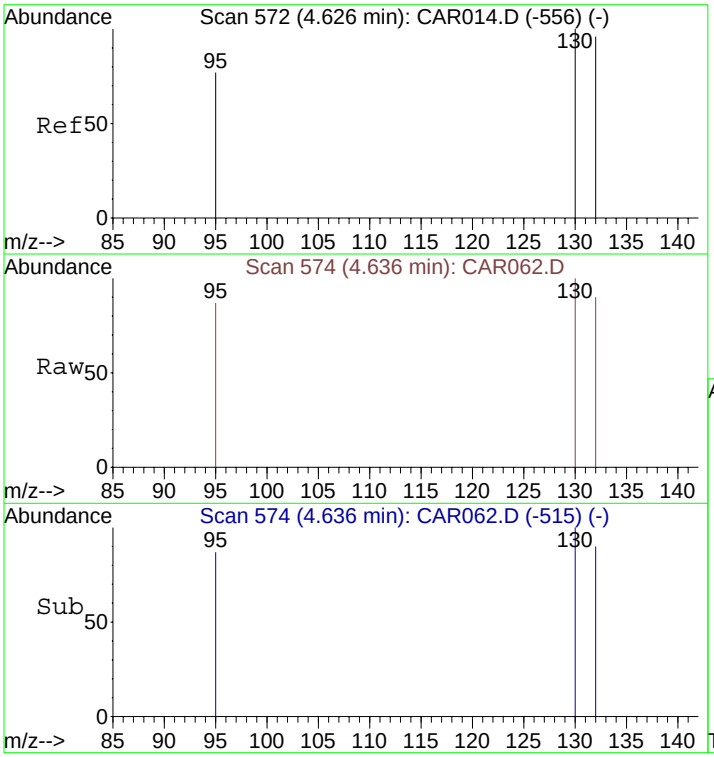


#10
Benzene
Concen: 7.63 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR062.D
Acq: 16 Sep 2008 23:26

Tgt Ion: 78 Resp: 235

Ion	Ratio	Lower	Upper
78	100		
77	17.0	18.6	28.0#
50	24.3	16.2	24.4

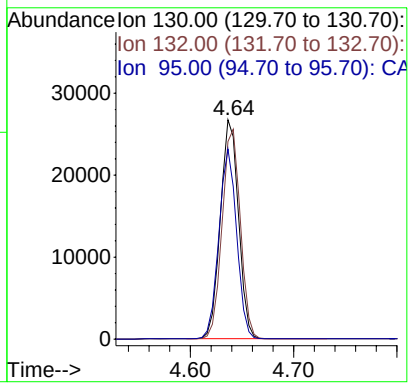


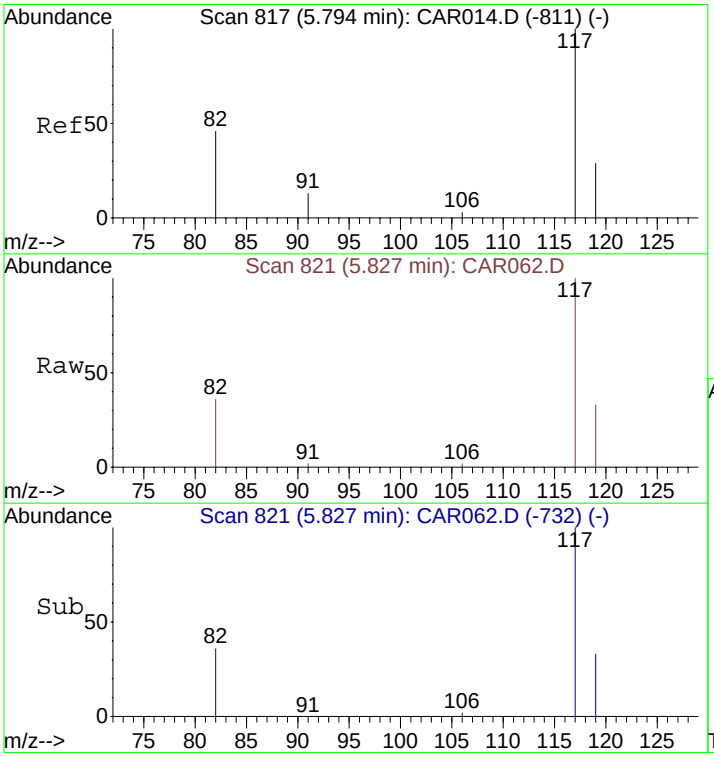


#11
Trichloroethene
Concen: 2170.65 ppbv
RT: 4.64 min Scan# 574
Delta R.T. 0.01 min
Lab File: CAR062.D
Acq: 16 Sep 2008 23:26

Tgt Ion:130 Resp: 32557

Ion	Ratio	Lower	Upper
130	100		
132	95.9	73.8	110.6
95	84.5	72.5	108.7

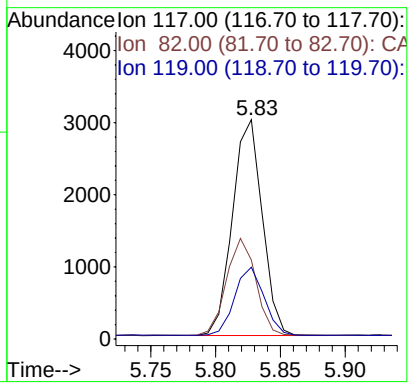


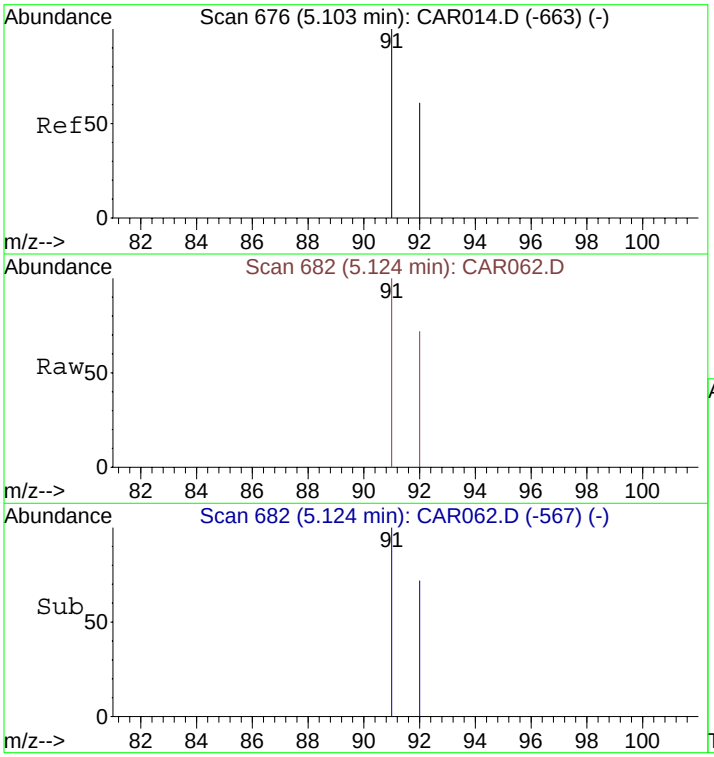


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.83 min Scan# 821
Delta R.T. 0.03 min
Lab File: CAR062.D
Acq: 16 Sep 2008 23:26

Tgt Ion:117 Resp: 4798

Ion	Ratio	Lower	Upper
117	100		
82	44.4	38.3	57.5
119	31.2	26.0	39.0

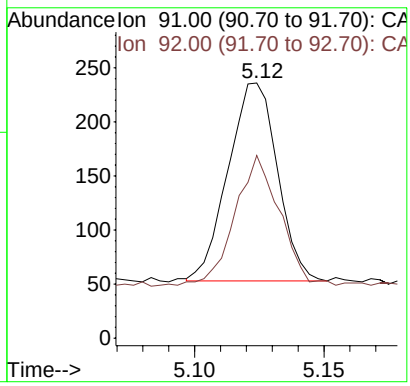


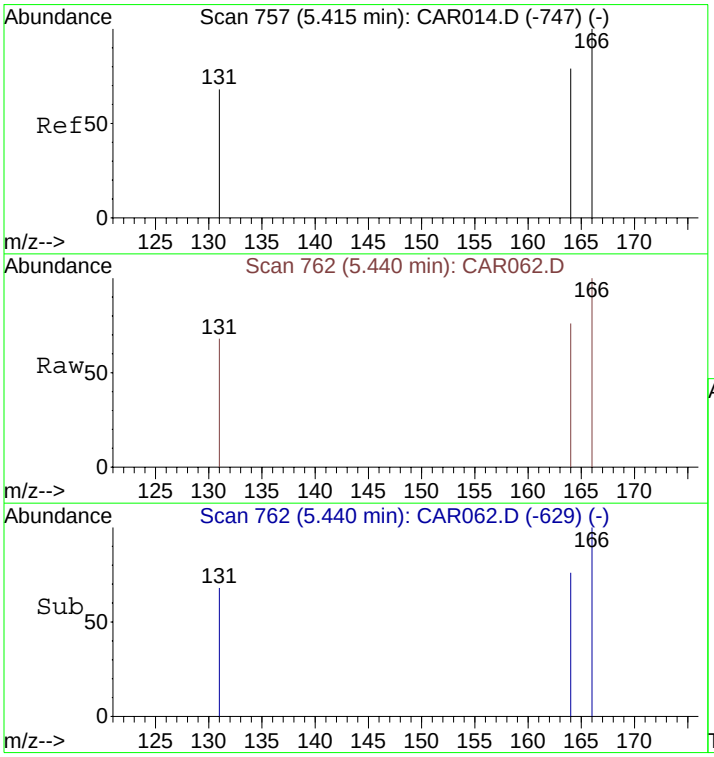


#13
Toluene
Concen: 8.34 ppbv
RT: 5.12 min Scan# 682
Delta R.T. 0.02 min
Lab File: CAR062.D
Acq: 16 Sep 2008 23:26

Tgt Ion: 91 Resp: 243

Ion	Ratio	Lower	Upper
91	100		
92	58.8	48.2	72.2

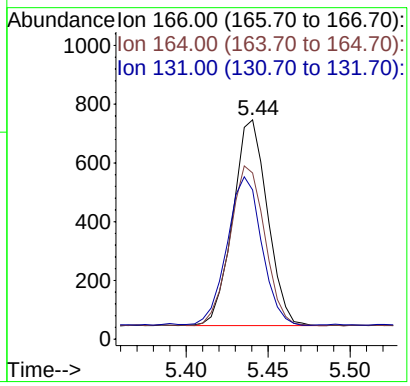




#14
Tetrachloroethene
Concen: 58.77 ppbv
RT: 5.44 min Scan# 762
Delta R.T. 0.03 min
Lab File: CAR062.D
Acq: 16 Sep 2008 23:26

Tgt Ion:166 Resp: 1030

Ion	Ratio	Lower	Upper
166	100		
164	78.2	63.1	94.7
131	72.6	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR063.D Vial: 1
Acq On : 16 Sep 2008 23:37 Operator: dlm
Sample : 51399\C12-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 16 23:46:06 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1477	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	5127	10.00 ppbv	0.01
12) Chlorobenzene-d5	5.82	117	4692	10.00 ppbv	0.03

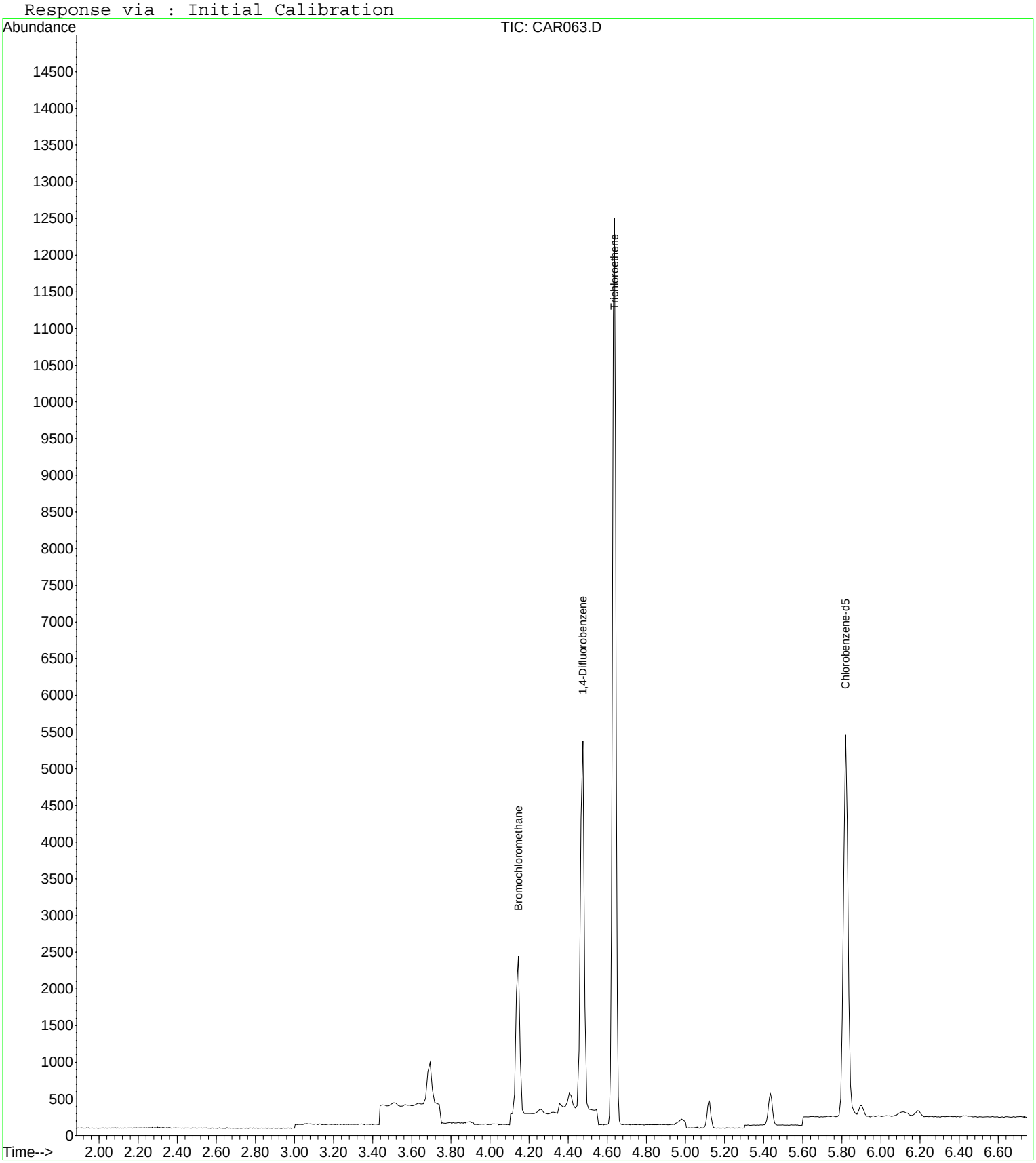
Target Compounds					Qvalue
10) Benzene	4.41	78	222m	7.12 ppbv	
11) Trichloroethene	4.64	130	5354	352.65 ppbv	95
13) Toluene	5.12	91	307	10.77 ppbv	98
14) Tetrachloroethene	5.44	166	248	14.47 ppbv	97

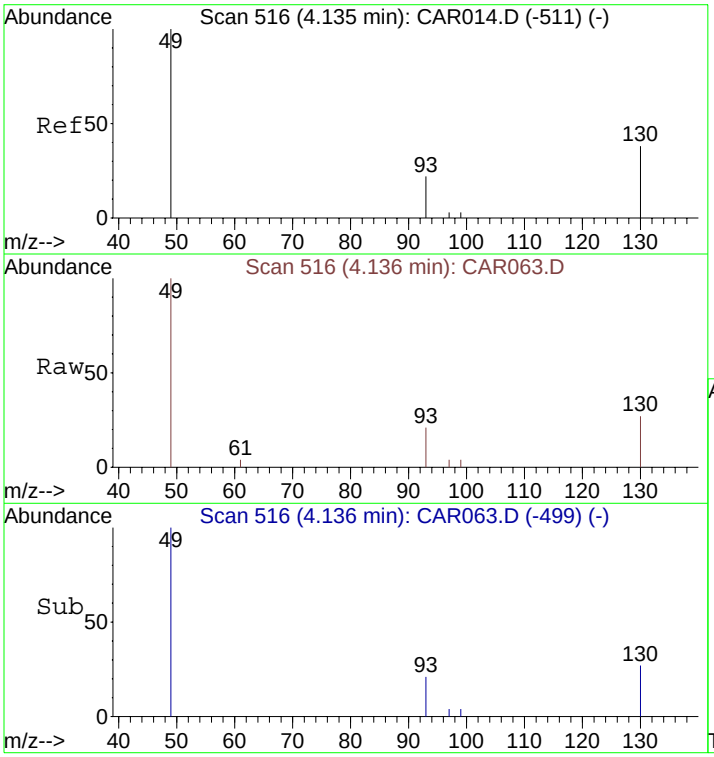
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR063.D Vial: 1
Acq On : 16 Sep 2008 23:37 Operator: dlm
Sample : 51399\C12-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:12 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Thu Oct 02 13:10:18 2008
Response via : Initial Calibration

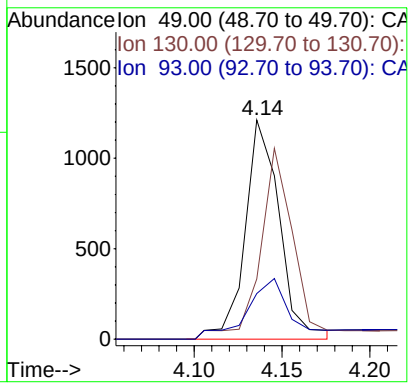


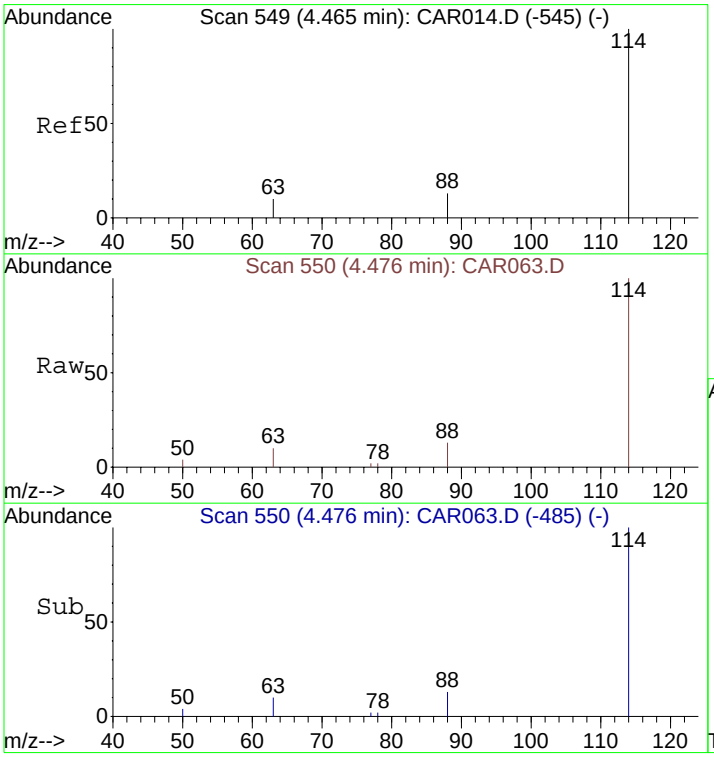


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR063.D
Acq: 16 Sep 2008 23:37

Tgt Ion: 49 Resp: 1477

Ion	Ratio	Lower	Upper
49	100		
130	85.6	65.1	97.7
93	35.2	33.8	50.6

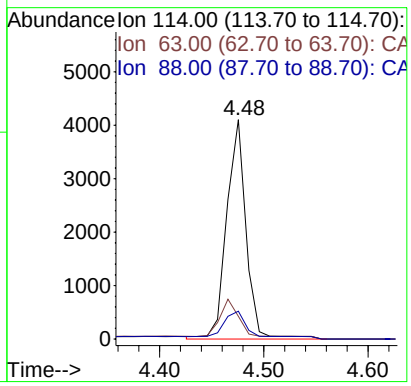


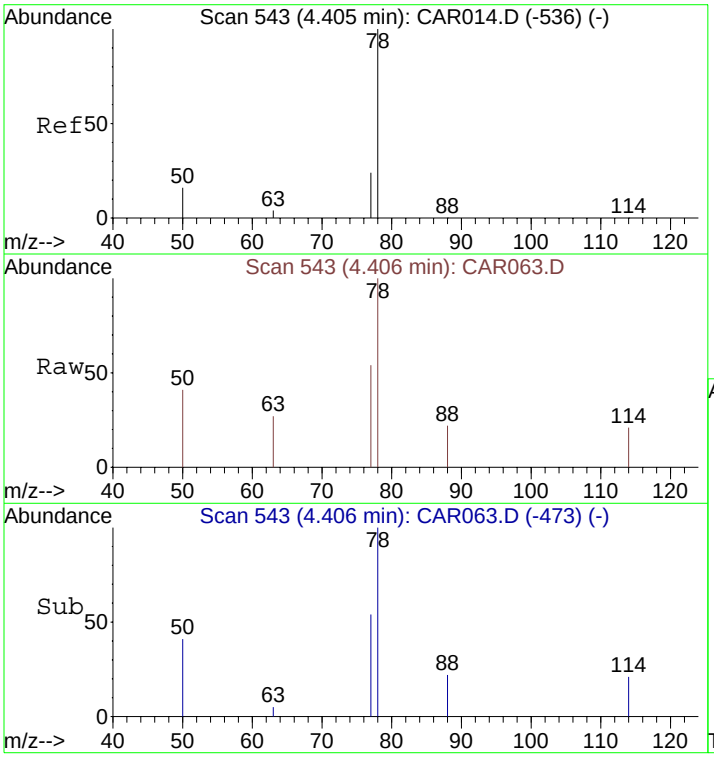


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR063.D
Acq: 16 Sep 2008 23:37

Tgt Ion:114 Resp: 5127

Ion	Ratio	Lower	Upper
114	100		
63	21.9	15.8	23.8
88	18.2	12.2	18.2

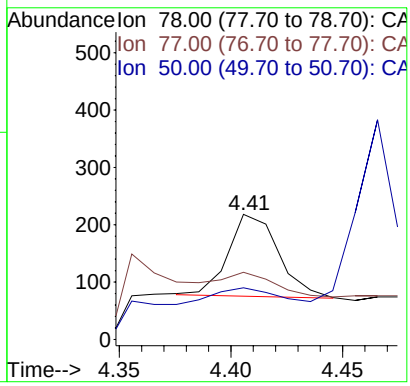


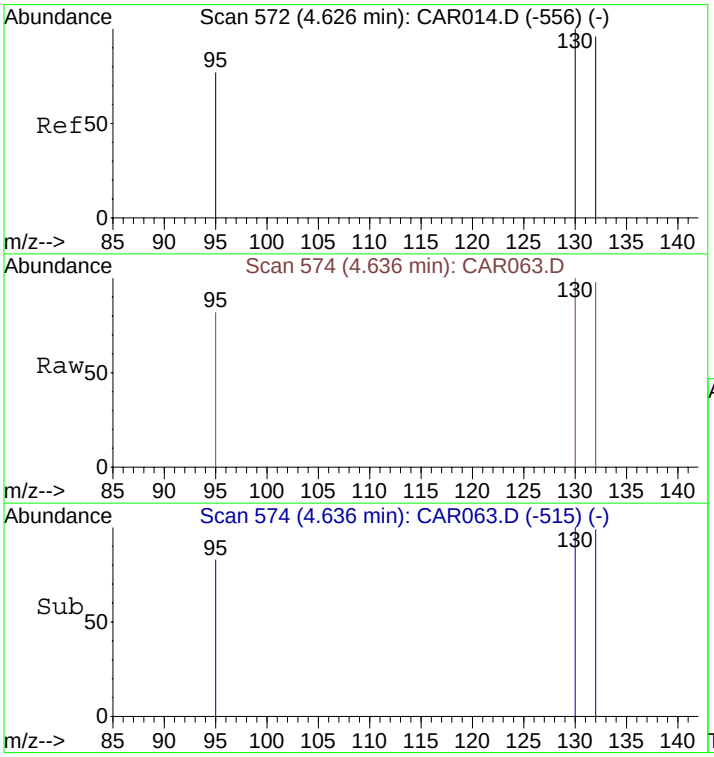


#10
Benzene
Concen: 7.12 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR063.D
Acq: 16 Sep 2008 23:37

Tgt Ion: 78 Resp: 222

Ion	Ratio	Lower	Upper
78	100		
77	15.8	18.6	28.0#
50	16.7	16.2	24.4

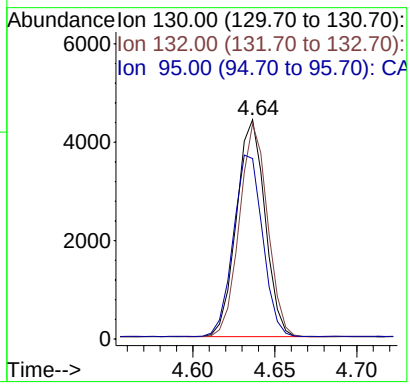


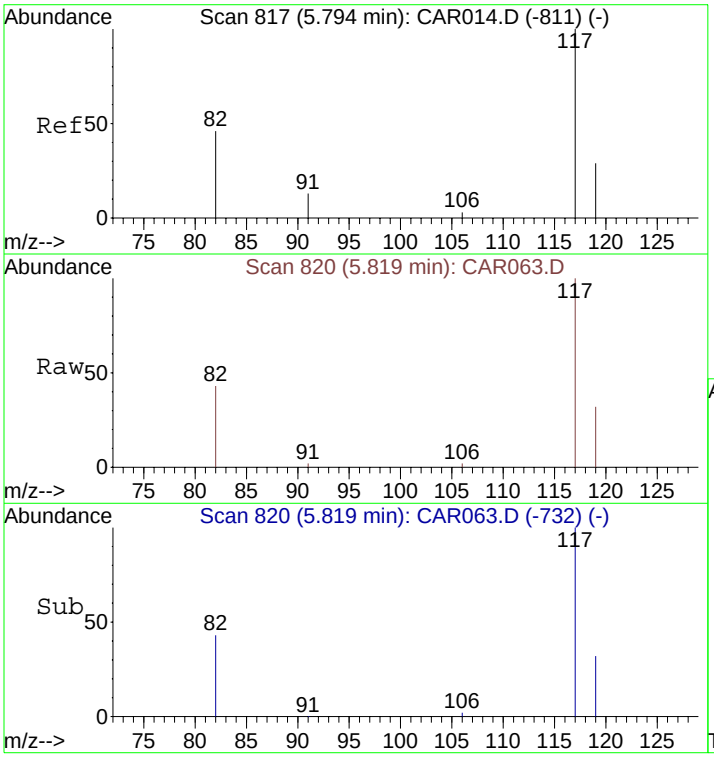


#11
Trichloroethene
Concen: 352.65 ppbv
RT: 4.64 min Scan# 574
Delta R.T. 0.01 min
Lab File: CAR063.D
Acq: 16 Sep 2008 23:37

Tgt Ion:130 Resp: 5354

Ion	Ratio	Lower	Upper
130	100		
132	96.2	73.8	110.6
95	85.4	72.5	108.7

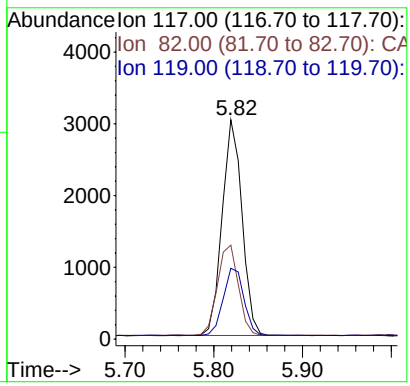


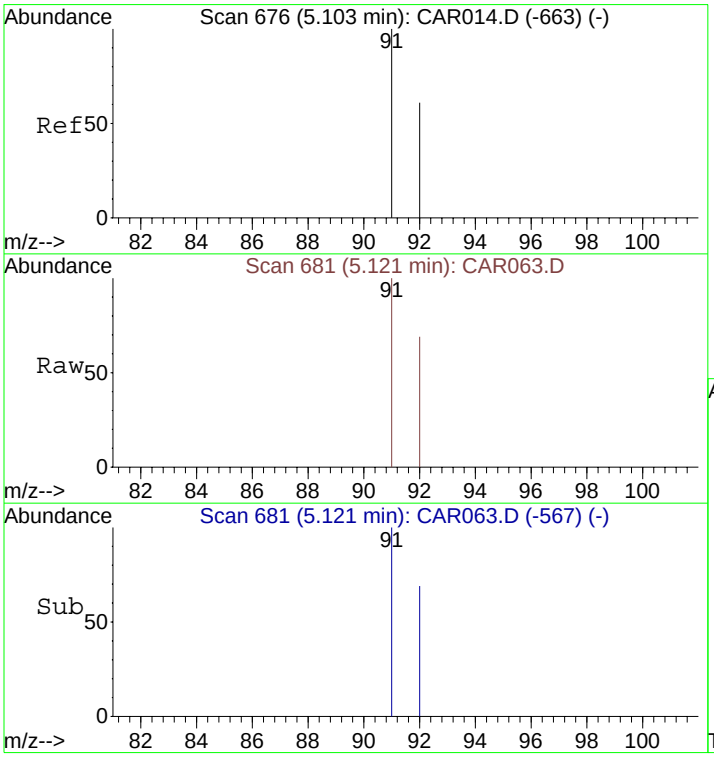


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.82 min Scan# 820
Delta R.T. 0.03 min
Lab File: CAR063.D
Acq: 16 Sep 2008 23:37

Tgt Ion:117 Resp: 4692

Ion	Ratio	Lower	Upper
117	100		
82	43.9	38.3	57.5
119	32.8	26.0	39.0

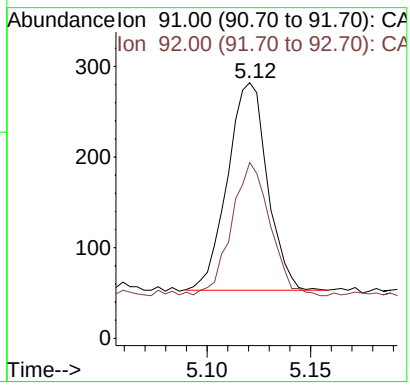


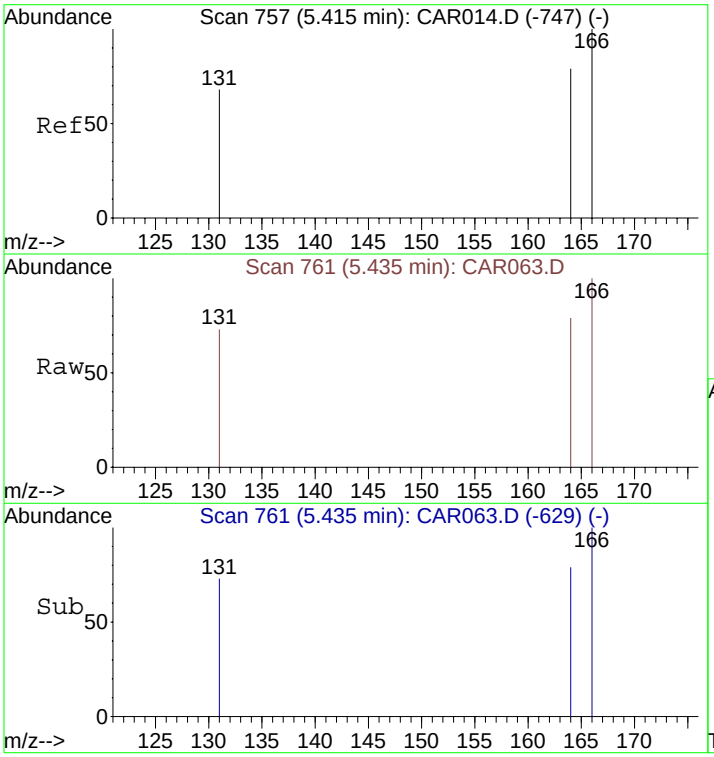


#13
Toluene
Concen: 10.77 ppbv
RT: 5.12 min Scan# 681
Delta R.T. 0.02 min
Lab File: CAR063.D
Acq: 16 Sep 2008 23:37

Tgt Ion: 91 Resp: 307

Ion	Ratio	Lower	Upper
91	100		
92	61.6	48.2	72.2

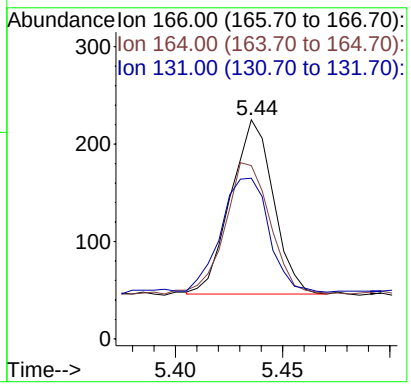




#14
Tetrachloroethene
Concen: 14.47 ppbv
RT: 5.44 min Scan# 761
Delta R.T. 0.02 min
Lab File: CAR063.D
Acq: 16 Sep 2008 23:37

Tgt Ion:166 Resp: 248

Ion	Ratio	Lower	Upper
166	100		
164	79.0	63.1	94.7
131	73.4	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR064.D Vial: 1
Acq On : 16 Sep 2008 23:48 Operator: dlm
Sample : 51412\D7-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 16 23:55:56 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.15	49	1495	10.00 ppbv	0.01
9) 1,4-Difluorobenzene	4.48	114	4937	10.00 ppbv	0.01
12) Chlorobenzene-d5	5.84	117	4864	10.00 ppbv	0.04

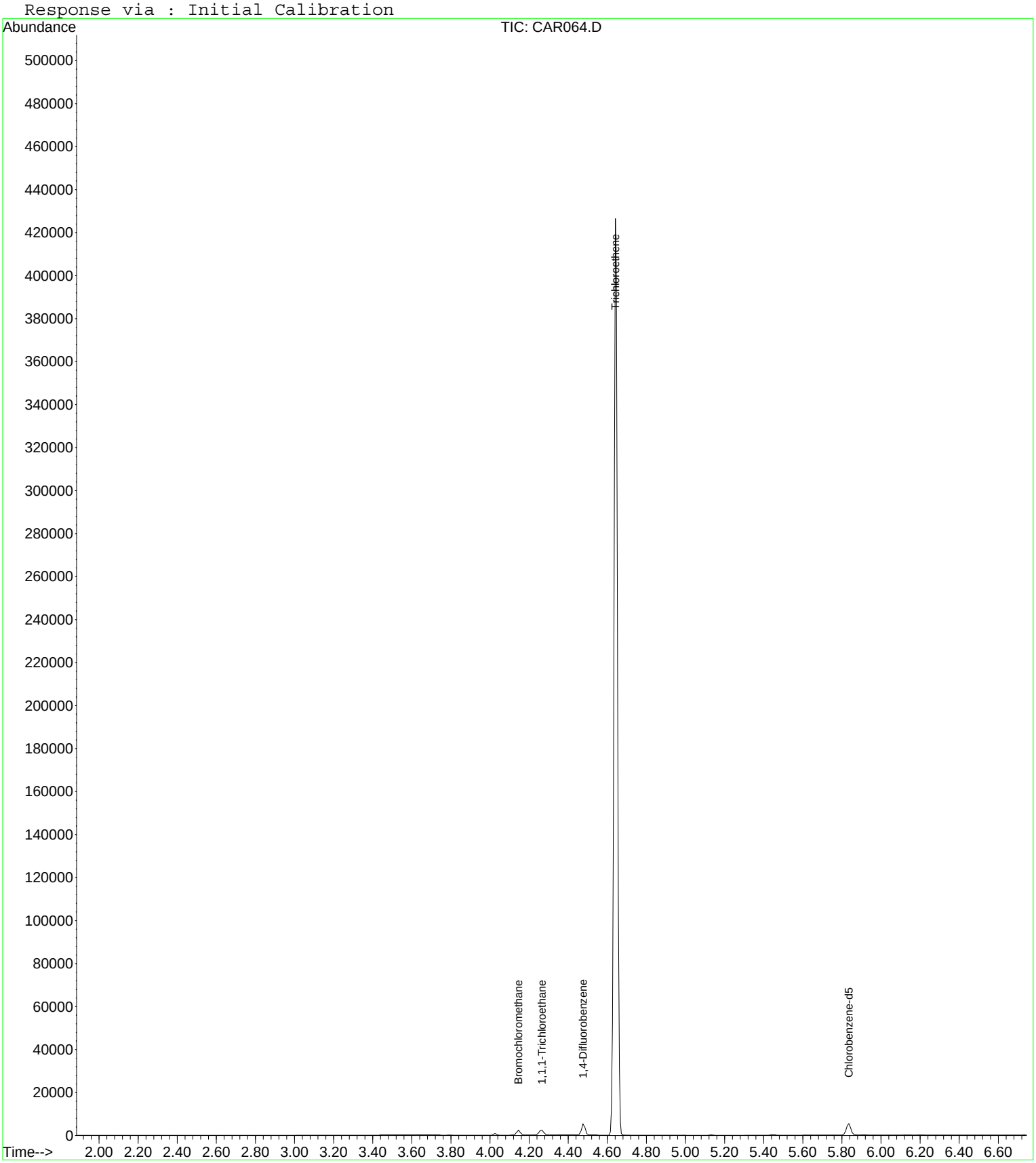
Target Compounds					Qvalue
5) trans-1,2-Dichloroethene	3.62	61	152	12.10 ppbv #	82
6) 1,1-Dichloroethane	3.79	63	132m	8.00 ppbv	
7) cis-1,2-Dichloroethene	4.02	61	407	32.41 ppbv #	84
8) 1,1,1-Trichloroethane	4.27	97	1870m	100.21 ppbv	
11) Trichloroethene	4.64	130	189138	12937.18 ppbv	95
13) Toluene	5.13	91	212	7.18 ppbv	100
14) Tetrachloroethene	5.45	166	285	16.04 ppbv	96

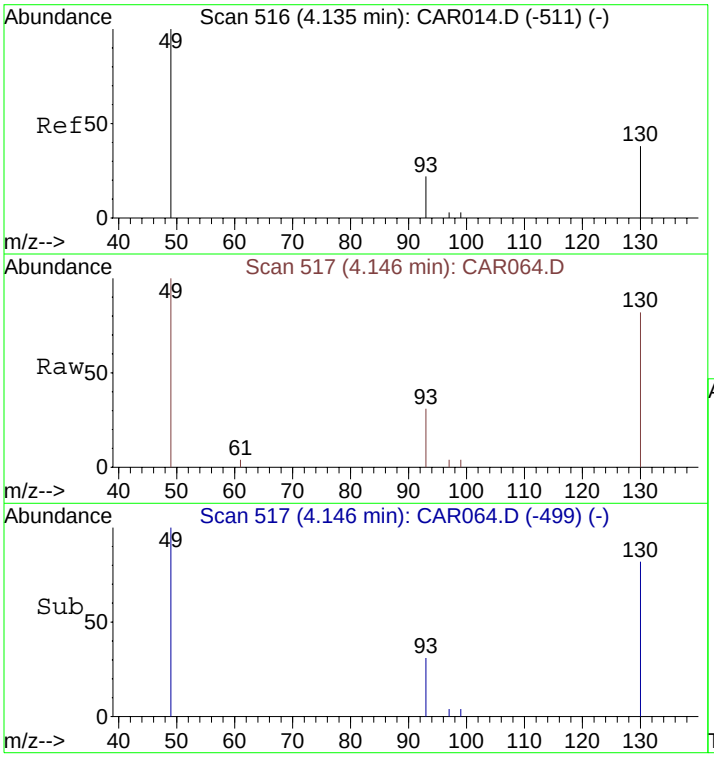
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR064.D Vial: 1
Acq On : 16 Sep 2008 23:48 Operator: dlm
Sample : 51412\D7-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:13 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Thu Oct 02 13:10:18 2008
Response via : Initial Calibration

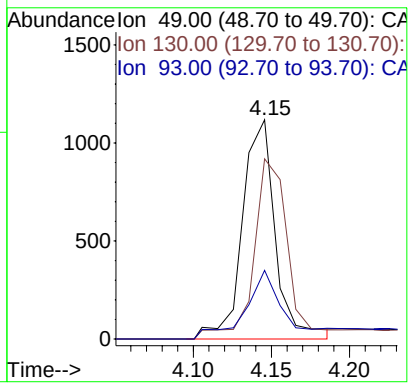


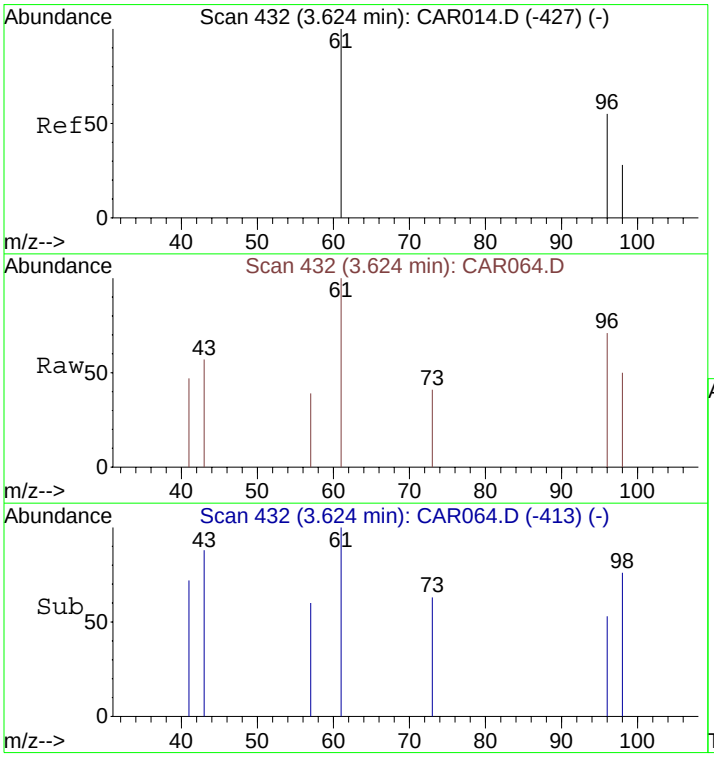


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.15 min Scan# 517
Delta R.T. 0.01 min
Lab File: CAR064.D
Acq: 16 Sep 2008 23:48

Tgt Ion: 49 Resp: 1495

Ion	Ratio	Lower	Upper
49	100		
130	83.7	65.1	97.7
93	34.2	33.8	50.6

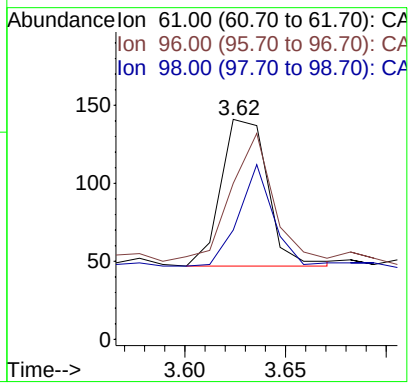


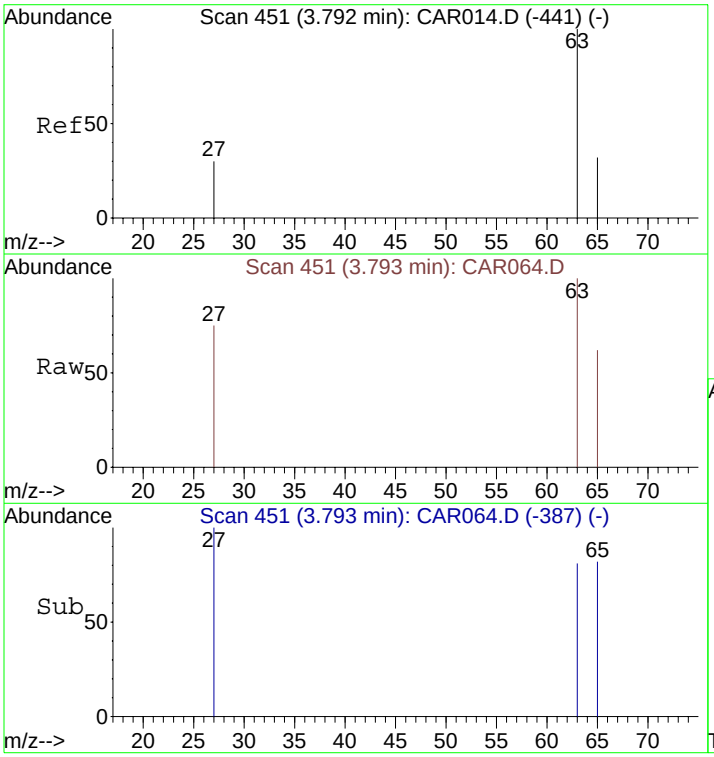


#5
trans-1,2-Dichloroethene
Concen: 12.10 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR064.D
Acq: 16 Sep 2008 23:48

Tgt Ion: 61 Resp: 152

Ion	Ratio	Lower	Upper
61	100		
96	86.8	55.0	82.4#
98	52.6	35.6	53.4

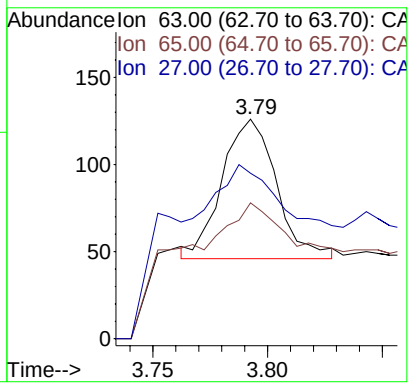


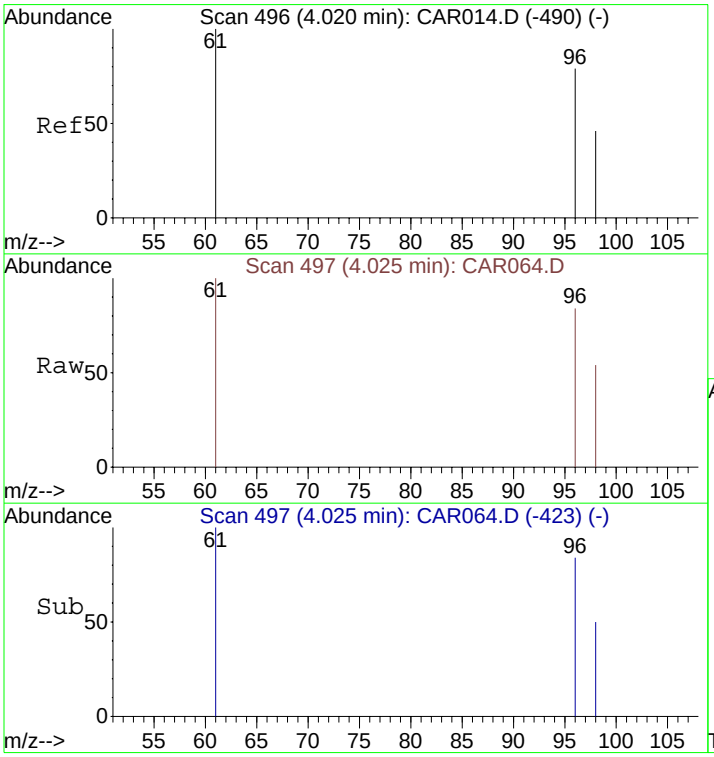


#6
1,1-Dichloroethane
Concen: 8.00 ppbv m
RT: 3.79 min Scan# 451
Delta R.T. 0.00 min
Lab File: CAR064.D
Acq: 16 Sep 2008 23:48

Tgt Ion: 63 Resp: 132

Ion	Ratio	Lower	Upper
63	100		
65	34.1	23.5	35.3
27	38.6	26.7	40.1

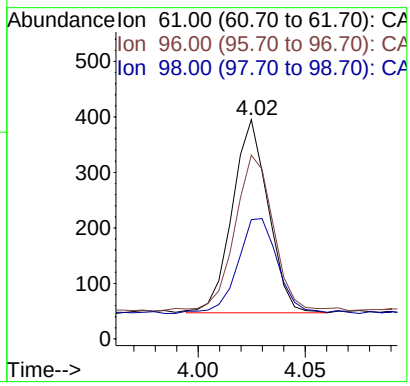


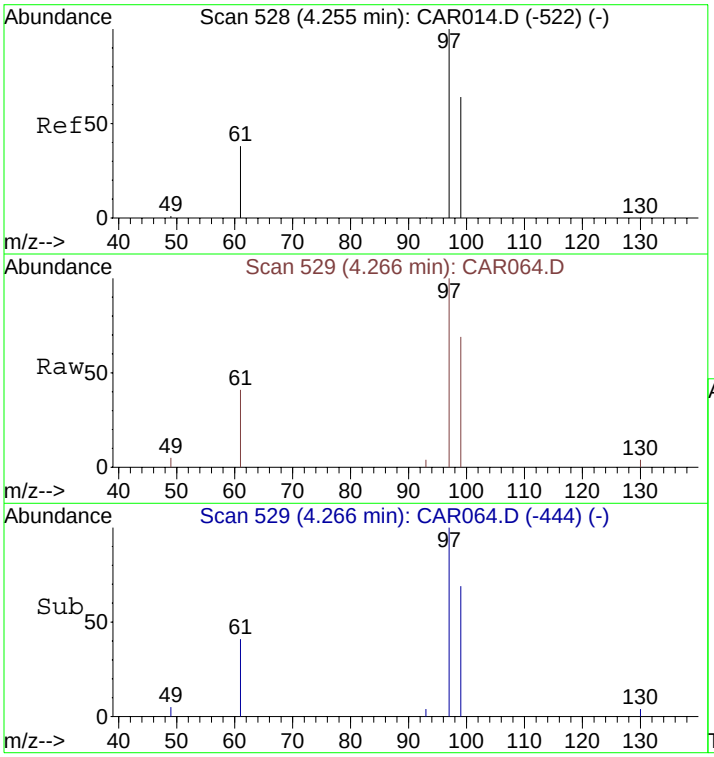


#7
cis-1,2-Dichloroethene
Concen: 32.41 ppbv
RT: 4.02 min Scan# 497
Delta R.T. 0.01 min
Lab File: CAR064.D
Acq: 16 Sep 2008 23:48

Tgt Ion: 61 Resp: 407

Ion	Ratio	Lower	Upper
61	100		
96	84.5	56.0	84.0#
98	54.3	36.2	54.4

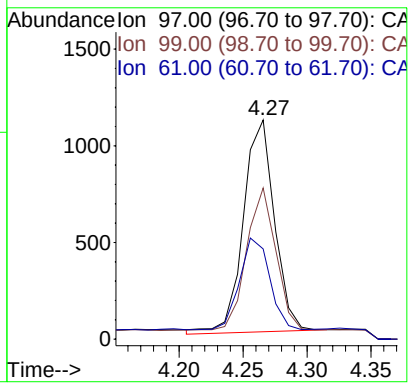


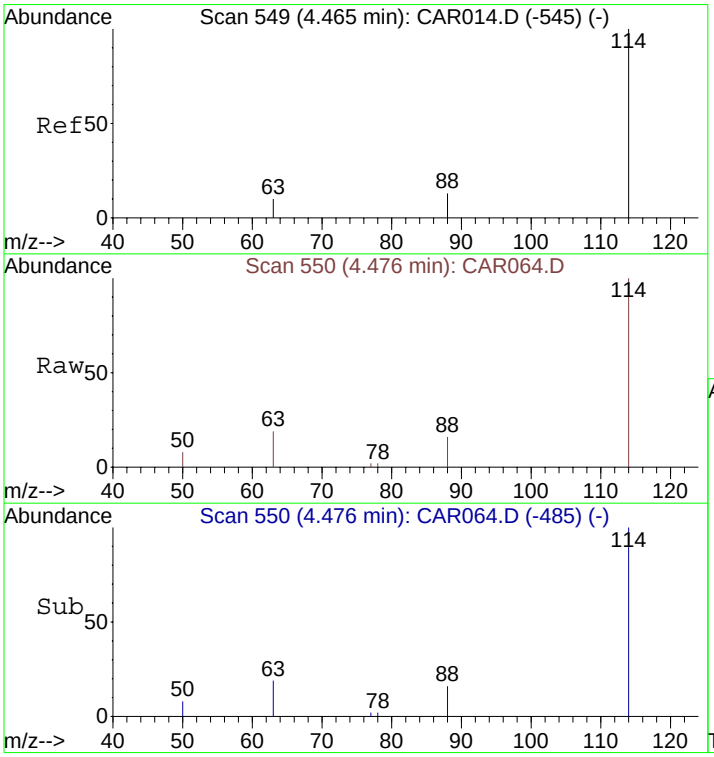


#8
1,1,1-Trichloroethane
Concen: 100.21 ppbv m
RT: 4.27 min Scan# 529
Delta R.T. 0.01 min
Lab File: CAR064.D
Acq: 16 Sep 2008 23:48

Tgt Ion: 97 Resp: 1870

Ion	Ratio	Lower	Upper
97	100		
99	61.7	51.8	77.8
61	41.3	32.1	48.1

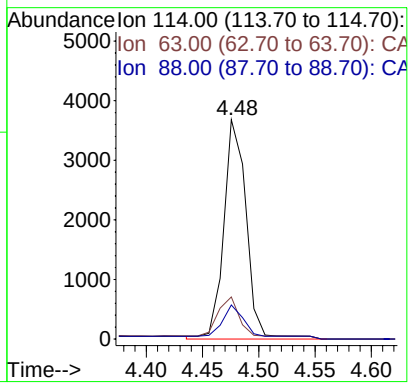


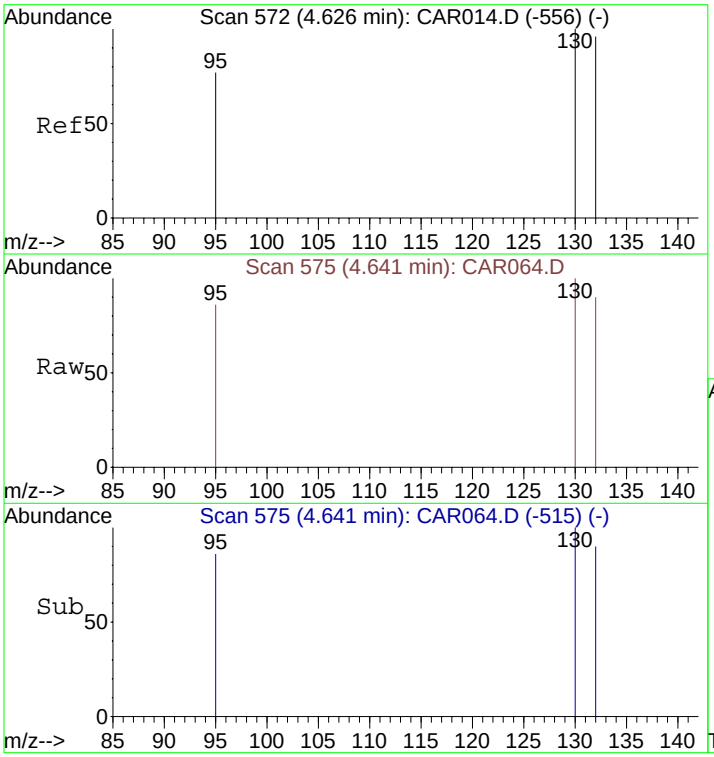


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR064.D
Acq: 16 Sep 2008 23:48

Tgt Ion:114 Resp: 4937

Ion	Ratio	Lower	Upper
114	100		
63	22.7	15.8	23.8
88	14.4	12.2	18.2

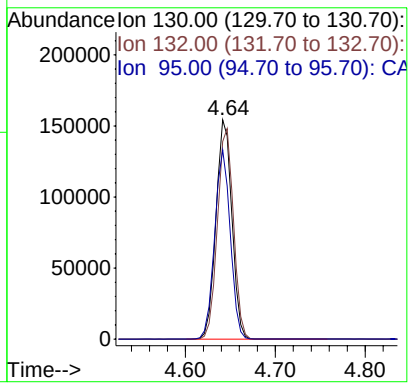


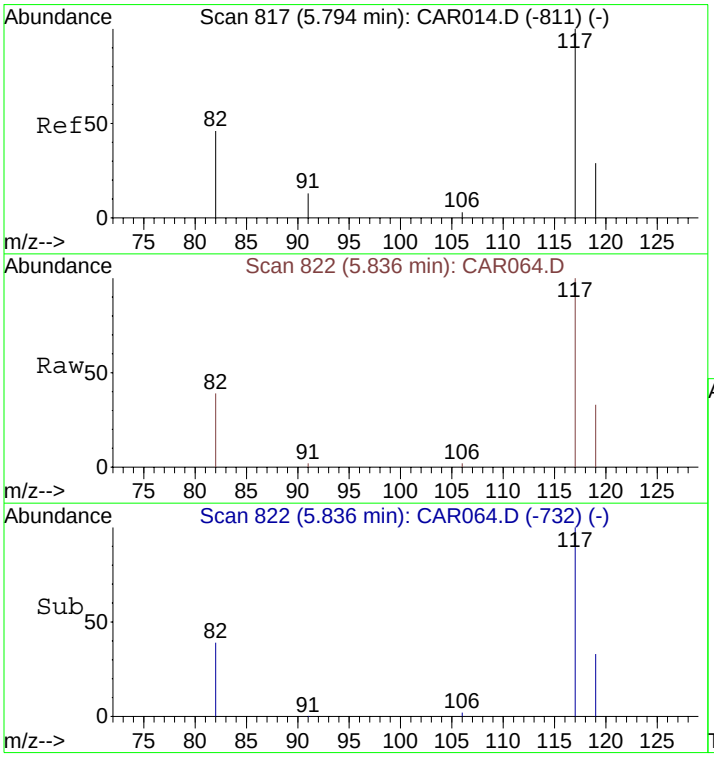


#11
Trichloroethene
Concen: 12937.18 ppbv
RT: 4.64 min Scan# 575
Delta R.T. 0.02 min
Lab File: CAR064.D
Acq: 16 Sep 2008 23:48

Tgt Ion:130 Resp: 189138

Ion	Ratio	Lower	Upper
130	100		
132	96.4	73.8	110.6
95	84.6	72.5	108.7

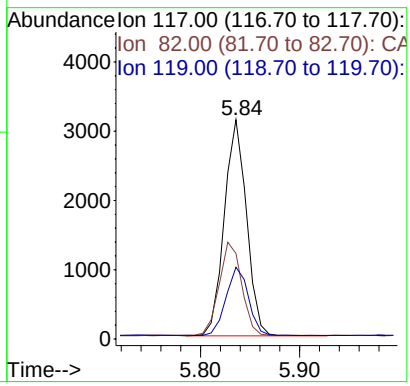


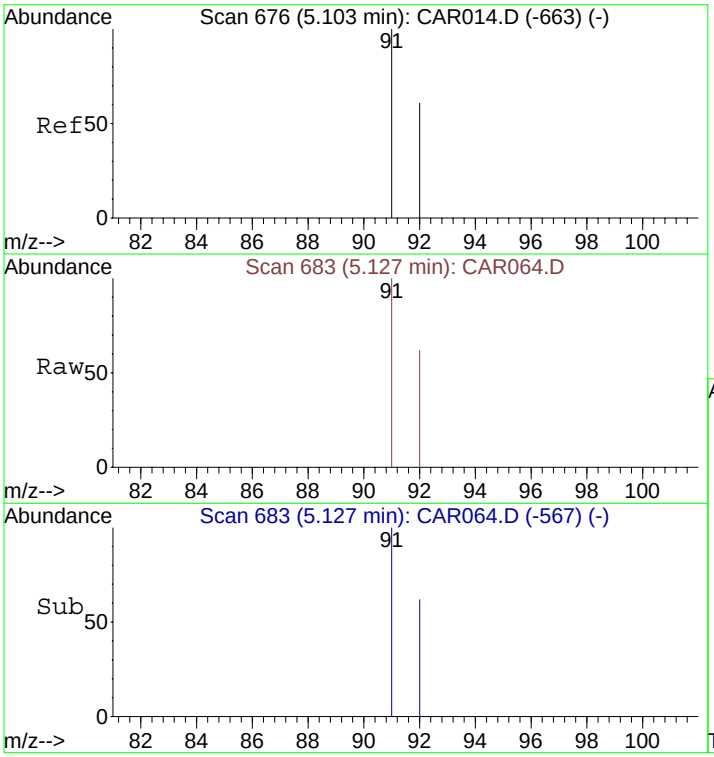


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.84 min Scan# 822
Delta R.T. 0.04 min
Lab File: CAR064.D
Acq: 16 Sep 2008 23:48

Tgt Ion:117 Resp: 4864

Ion	Ratio	Lower	Upper
117	100		
82	43.8	38.3	57.5
119	31.8	26.0	39.0

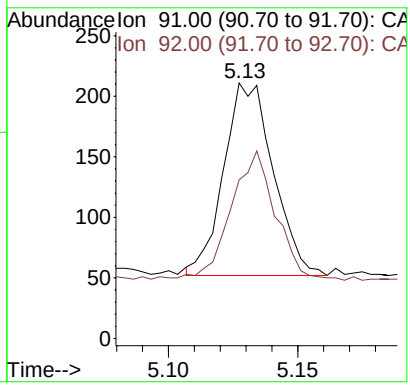


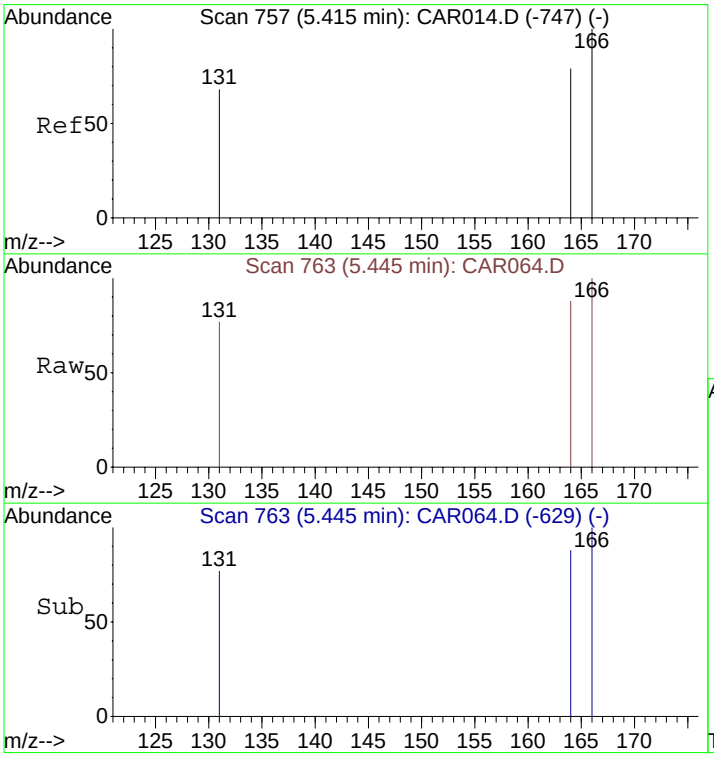


#13
Toluene
Concen: 7.18 ppbv
RT: 5.13 min Scan# 683
Delta R.T. 0.02 min
Lab File: CAR064.D
Acq: 16 Sep 2008 23:48

Tgt Ion: 91 Resp: 212

Ion	Ratio	Lower	Upper
91	100		
92	59.9	48.2	72.2

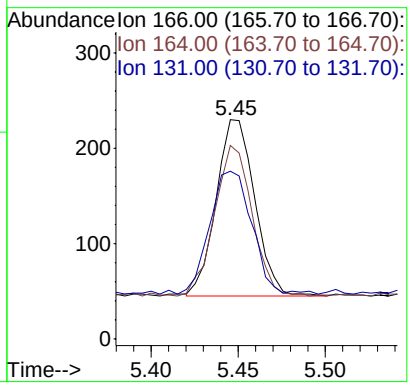




#14
Tetrachloroethene
Concen: 16.04 ppbv
RT: 5.45 min Scan# 763
Delta R.T. 0.03 min
Lab File: CAR064.D
Acq: 16 Sep 2008 23:48

Tgt Ion:166 Resp: 285

Ion	Ratio	Lower	Upper
166	100		
164	83.5	63.1	94.7
131	75.8	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR065.D Vial: 1
Acq On : 16 Sep 2008 23:59 Operator: dlm
Sample : 51409\D8-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 00:07:47 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.14	49	1500	10.00	ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	4986	10.00	ppbv	0.01
12) Chlorobenzene-d5	5.81	117	4665	10.00	ppbv	0.02

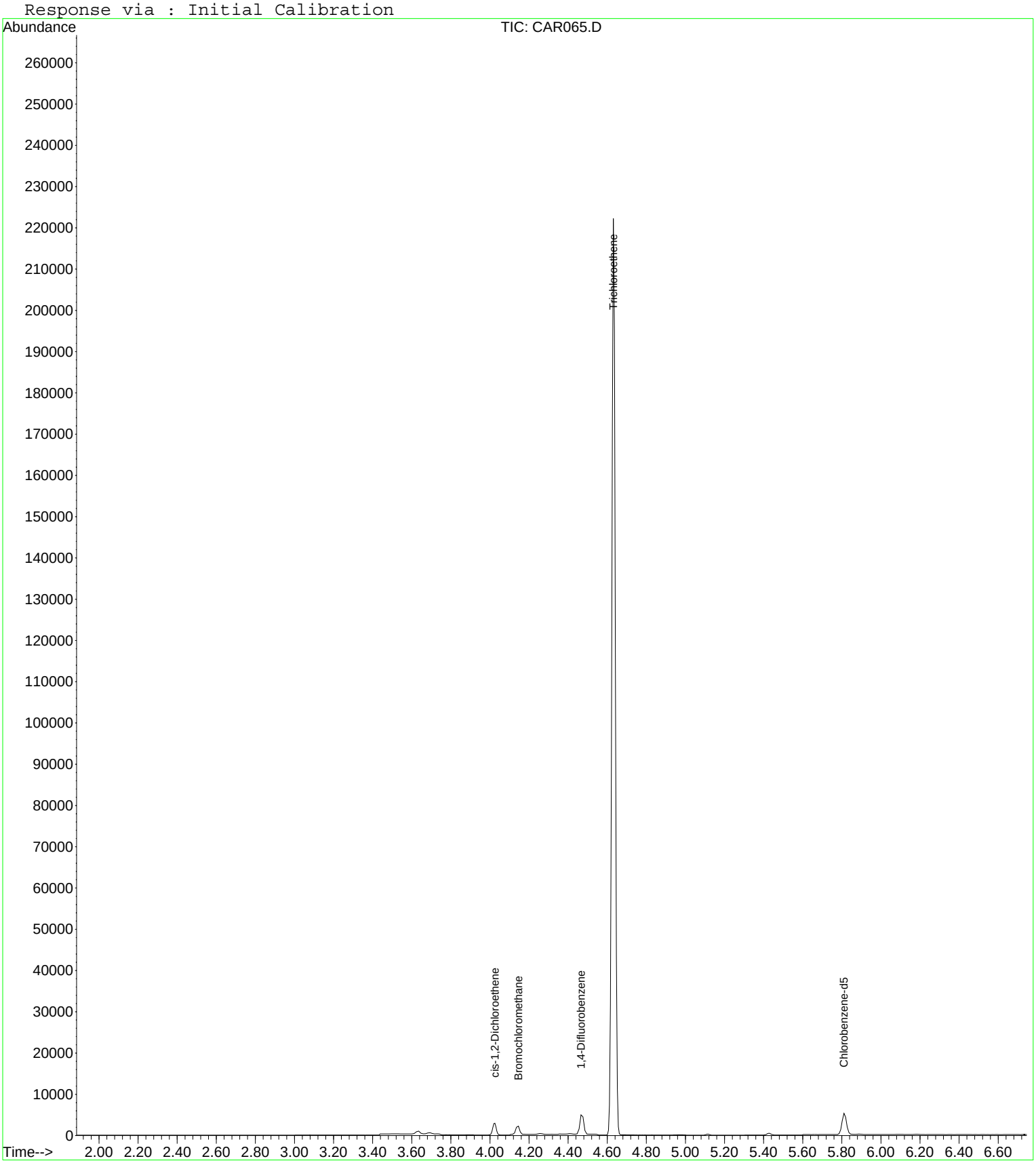
Target Compounds						Qvalue
5) trans-1,2-Dichloroethene	3.62	61	451	35.79	ppbv	86
7) cis-1,2-Dichloroethene	4.02	61	1571	124.67	ppbv	90
8) 1,1,1-Trichloroethane	4.26	97	176m	9.40	ppbv	
11) Trichloroethene	4.63	130	96042	6504.78	ppbv	95
13) Toluene	5.12	91	211	7.45	ppbv	98
14) Tetrachloroethene	5.43	166	256	15.02	ppbv	98

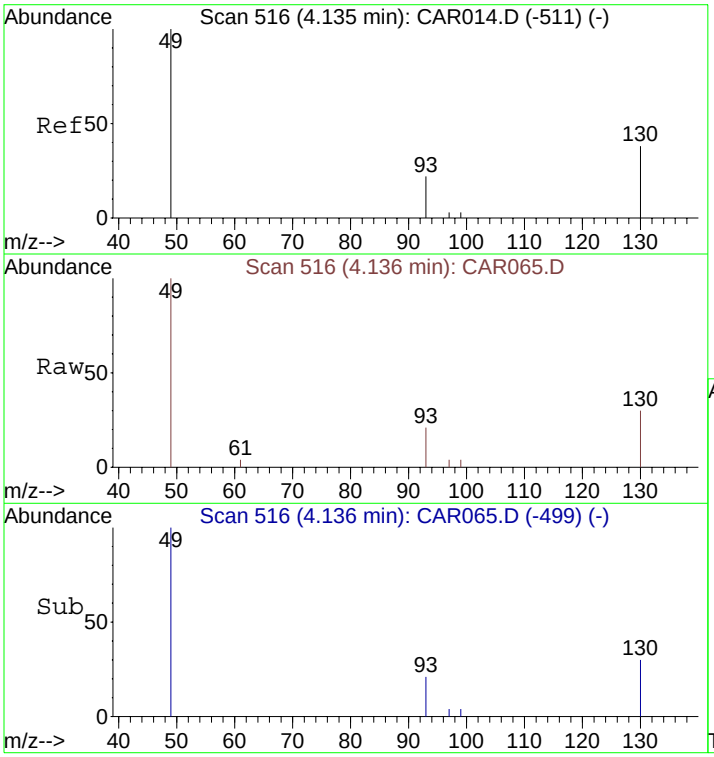
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR065.D Vial: 1
Acq On : 16 Sep 2008 23:59 Operator: dlm
Sample : 51409\D8-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:13 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Thu Oct 02 13:10:18 2008
Response via : Initial Calibration

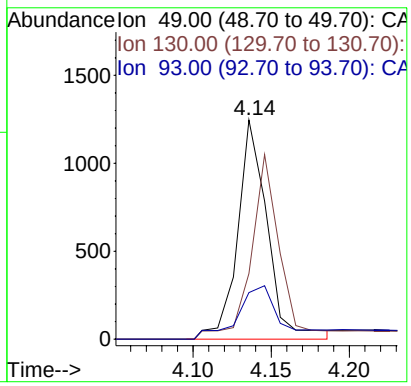


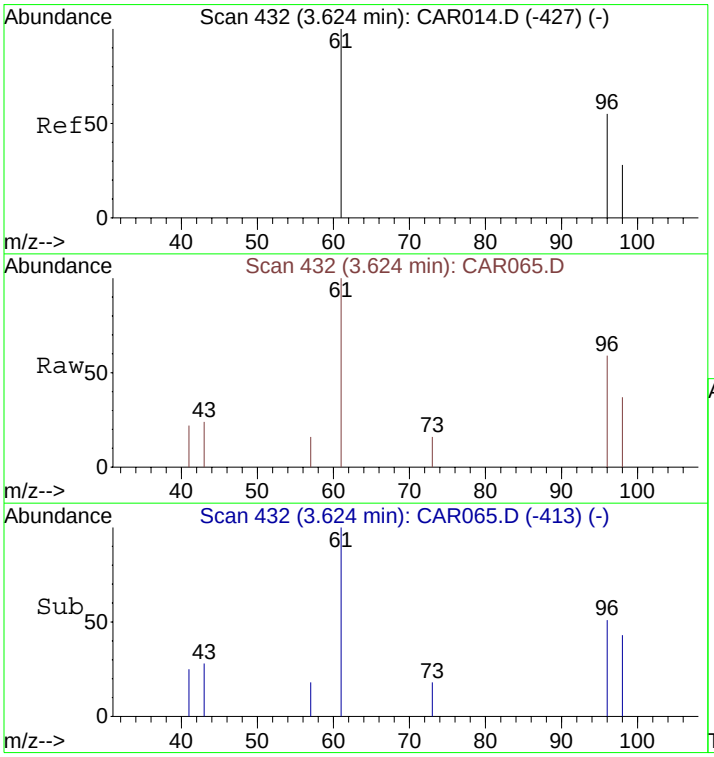


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR065.D
Acq: 16 Sep 2008 23:59

Tgt Ion: 49 Resp: 1500

Ion	Ratio	Lower	Upper
49	100		
130	83.5	65.1	97.7
93	35.7	33.8	50.6

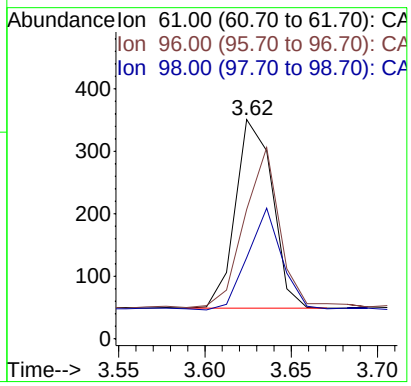


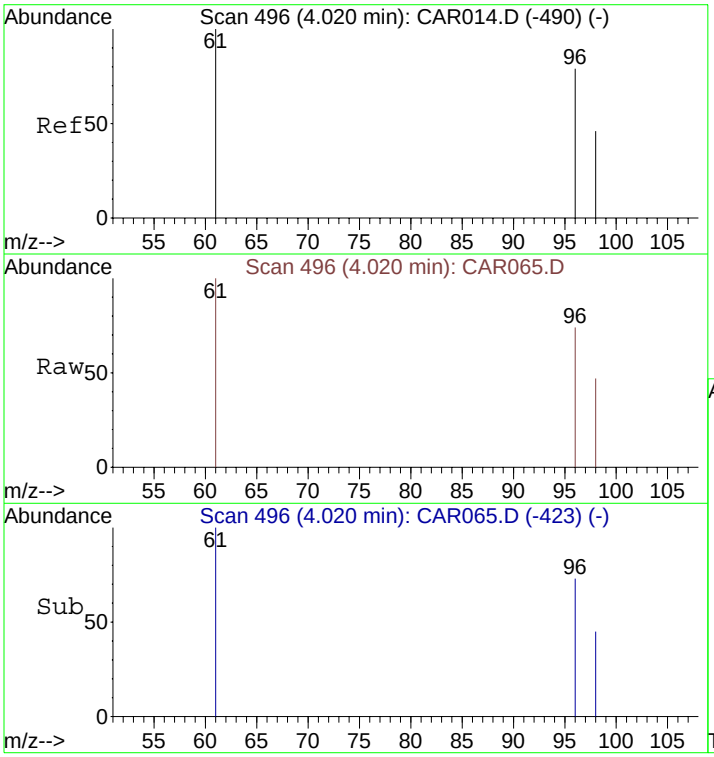


#5
trans-1,2-Dichloroethene
Concen: 35.79 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR065.D
Acq: 16 Sep 2008 23:59

Tgt Ion: 61 Resp: 451

Ion	Ratio	Lower	Upper
61	100		
96	81.8	55.0	82.4
98	51.2	35.6	53.4

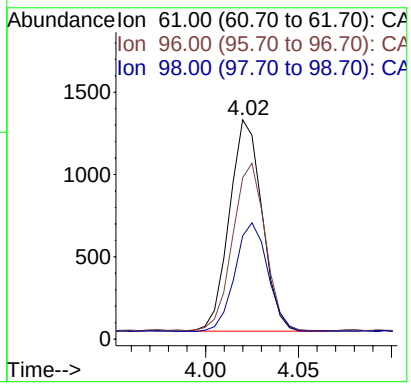


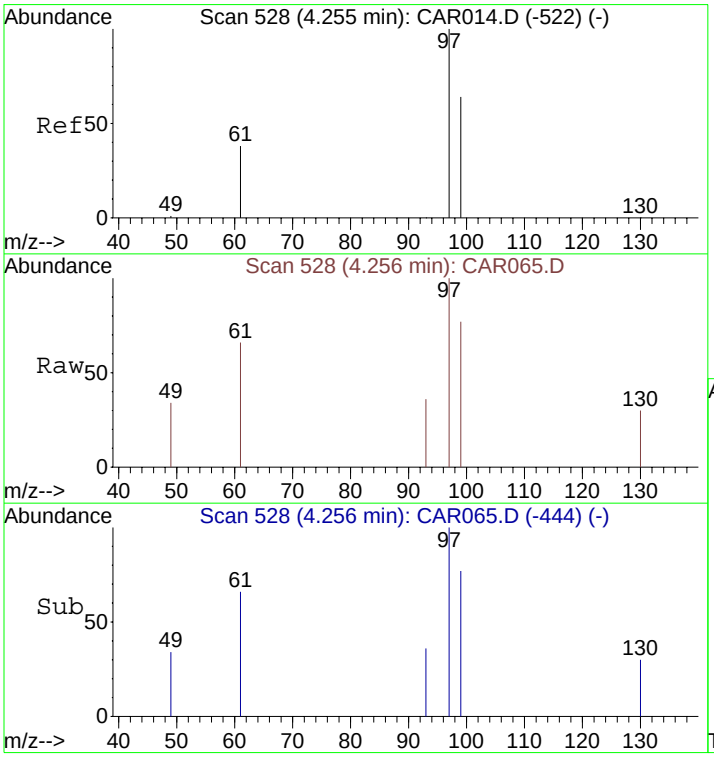


#7
cis-1,2-Dichloroethene
Concen: 124.67 ppbv
RT: 4.02 min Scan# 496
Delta R.T. 0.00 min
Lab File: CAR065.D
Acq: 16 Sep 2008 23:59

Tgt Ion: 61 Resp: 1571

Ion	Ratio	Lower	Upper
61	100		
96	78.9	56.0	84.0
98	51.9	36.2	54.4

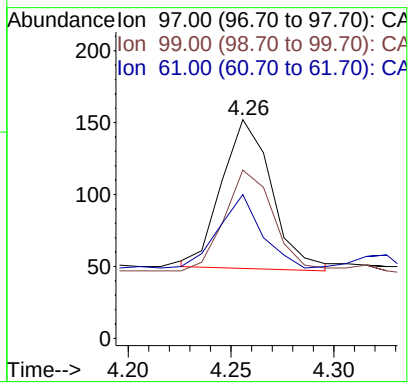


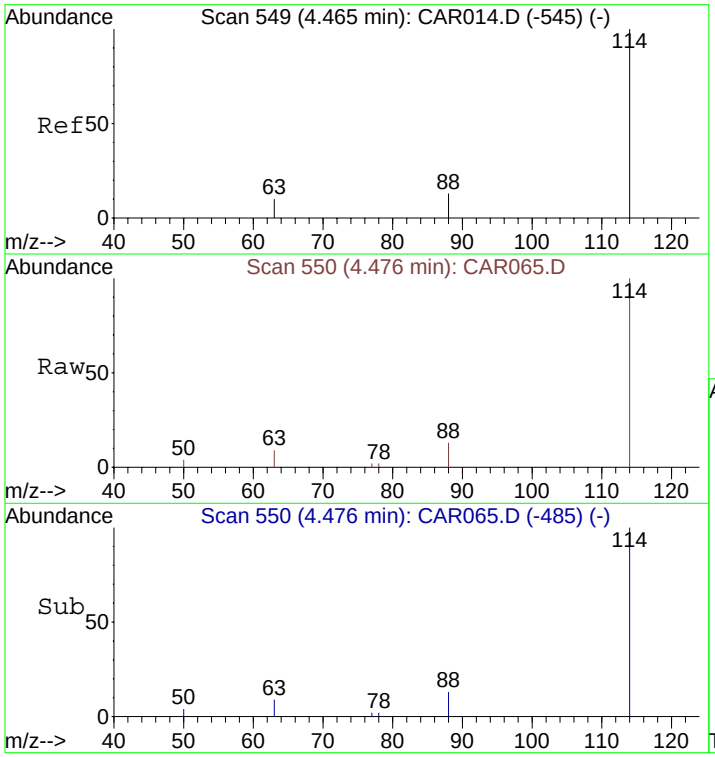


#8
1,1,1-Trichloroethane
Concen: 9.40 ppbv m
RT: 4.26 min Scan# 528
Delta R.T. 0.00 min
Lab File: CAR065.D
Acq: 16 Sep 2008 23:59

Tgt Ion: 97 Resp: 176

Ion	Ratio	Lower	Upper
97	100		
99	60.8	51.8	77.8
61	42.0	32.1	48.1

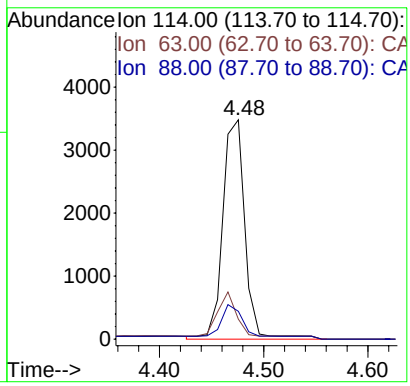


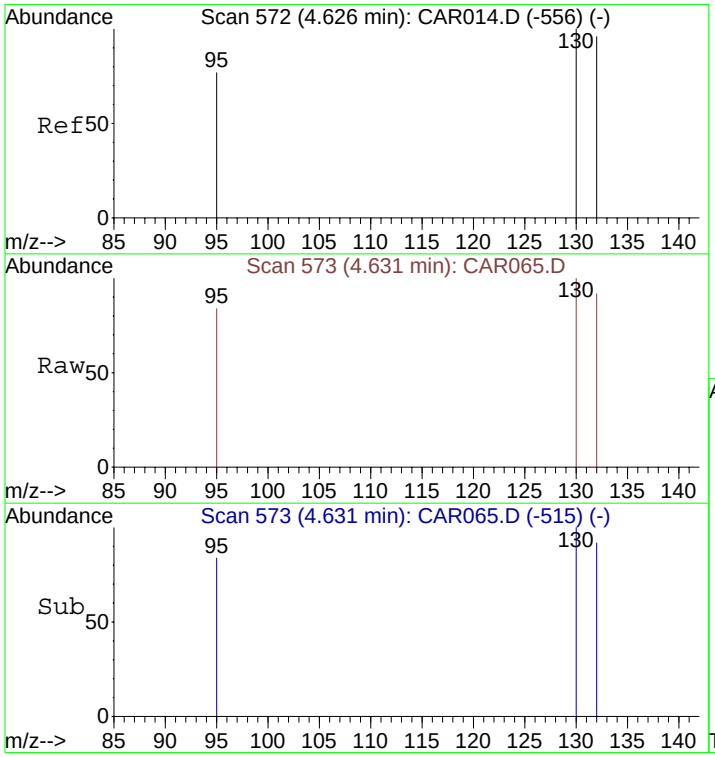


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR065.D
Acq: 16 Sep 2008 23:59

Tgt Ion:114 Resp: 4986

Ion	Ratio	Lower	Upper
114	100		
63	18.4	15.8	23.8
88	19.1	12.2	18.2#

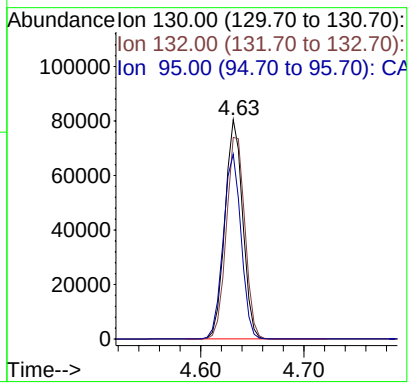


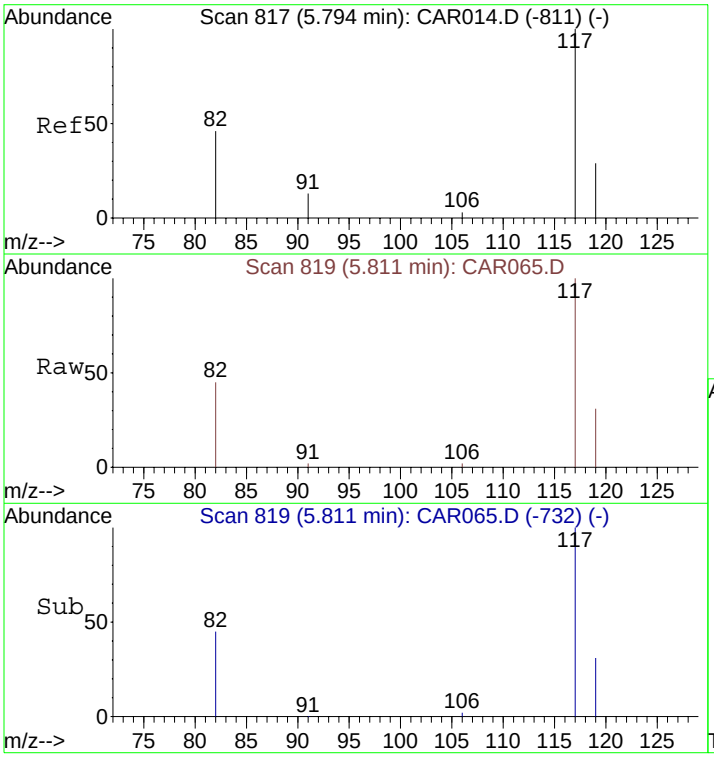


#11
Trichloroethene
Concen: 6504.78 ppbv
RT: 4.63 min Scan# 573
Delta R.T. 0.01 min
Lab File: CAR065.D
Acq: 16 Sep 2008 23:59

Tgt Ion:130 Resp: 96042

Ion	Ratio	Lower	Upper
130	100		
132	95.9	73.8	110.6
95	84.6	72.5	108.7

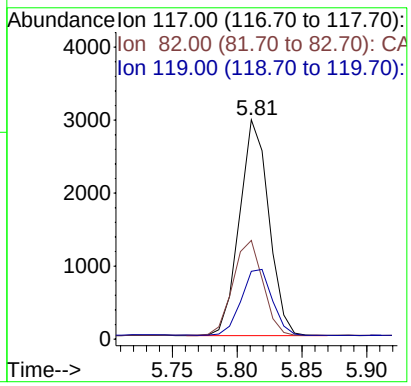


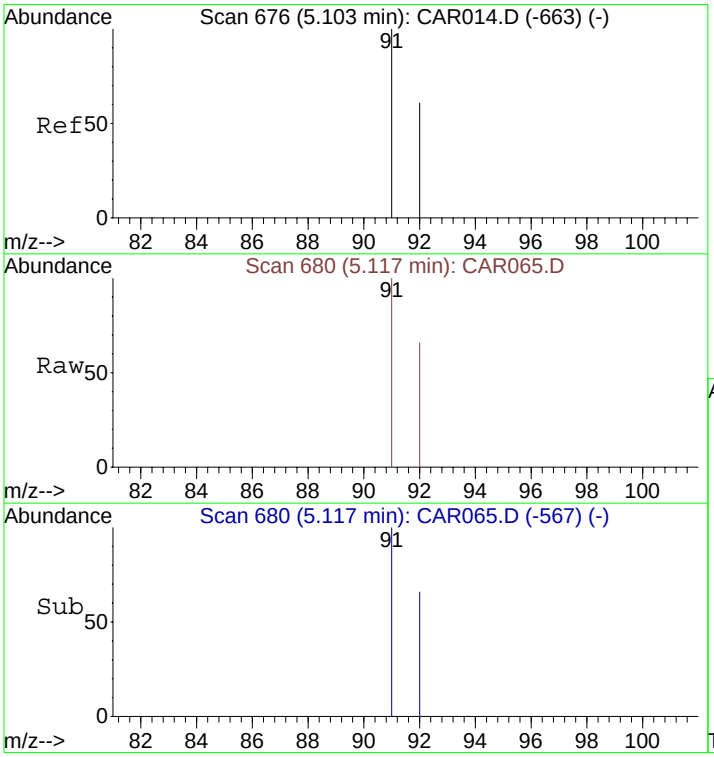


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.81 min Scan# 819
Delta R.T. 0.02 min
Lab File: CAR065.D
Acq: 16 Sep 2008 23:59

Tgt Ion:117 Resp: 4665

Ion	Ratio	Lower	Upper
117	100		
82	44.8	38.3	57.5
119	32.5	26.0	39.0

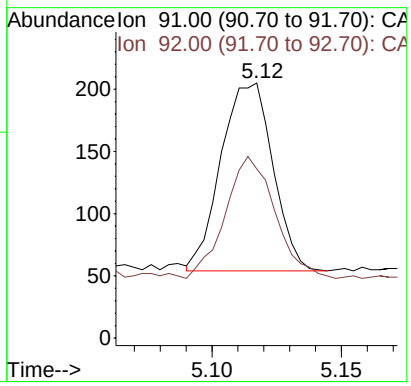


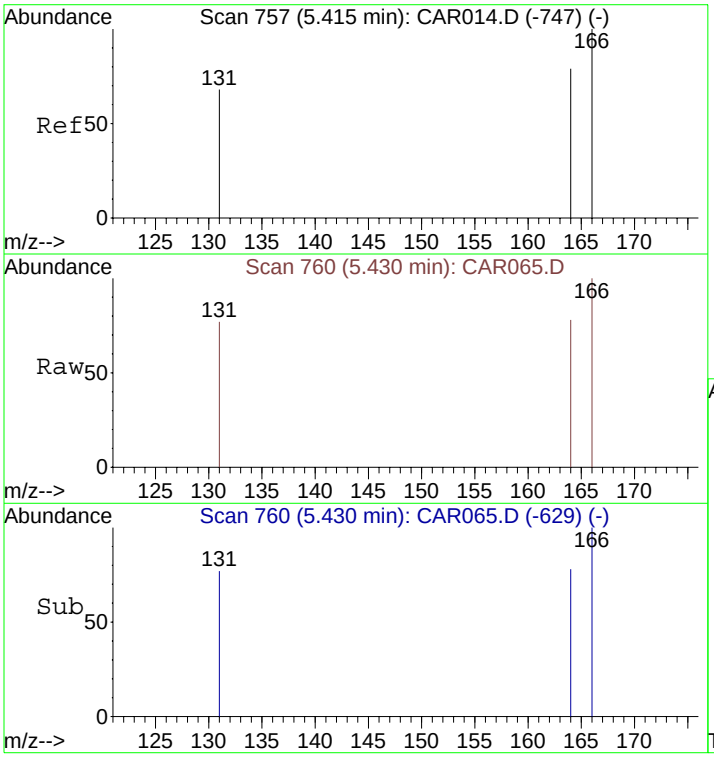


#13
Toluene
Concen: 7.45 ppbv
RT: 5.12 min Scan# 680
Delta R.T. 0.01 min
Lab File: CAR065.D
Acq: 16 Sep 2008 23:59

Tgt Ion: 91 Resp: 211

Ion	Ratio	Lower	Upper
91	100		
92	62.1	48.2	72.2

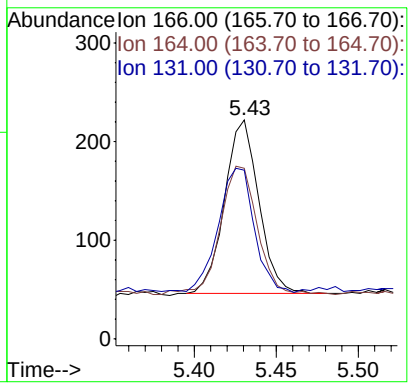




#14
Tetrachloroethene
Concen: 15.02 ppbv
RT: 5.43 min Scan# 760
Delta R.T. 0.02 min
Lab File: CAR065.D
Acq: 16 Sep 2008 23:59

Tgt Ion:166 Resp: 256

Ion	Ratio	Lower	Upper
166	100		
164	78.1	63.1	94.7
131	75.4	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR066.D Vial: 1
Acq On : 17 Sep 2008 00:10 Operator: dlm
Sample : 51405\D10-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 00:17:33 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1530	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	5085	10.00 ppbv	0.01
12) Chlorobenzene-d5	5.81	117	4956	10.00 ppbv	0.02

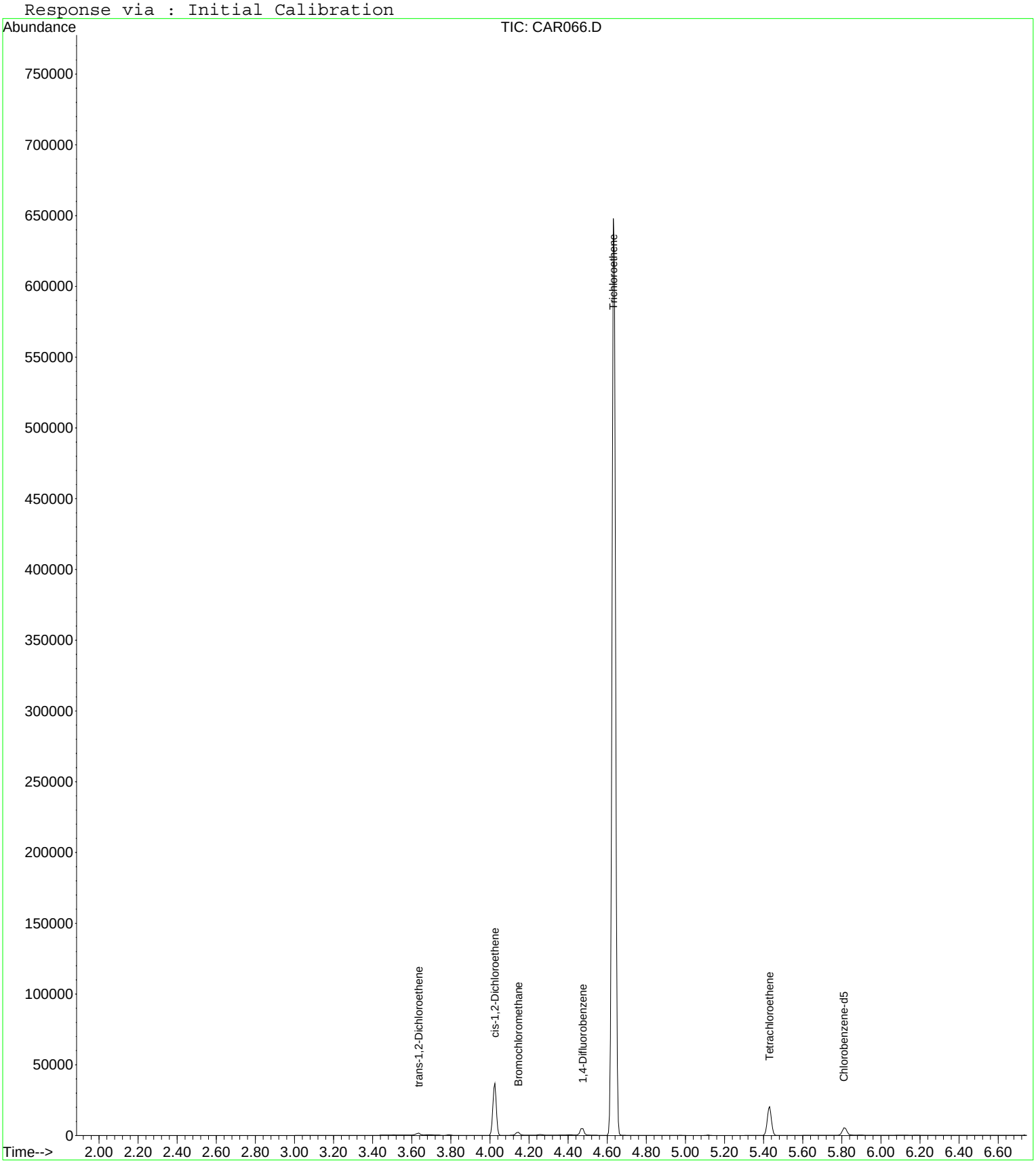
Target Compounds					Qvalue
5) trans-1,2-Dichloroethene	3.64	61	849	66.04 ppbv	94
6) 1,1-Dichloroethane	3.79	63	402m	23.81 ppbv	
7) cis-1,2-Dichloroethene	4.02	61	19361m	1506.27 ppbv	
8) 1,1,1-Trichloroethane	4.26	97	347m	18.17 ppbv	
10) Benzene	4.41	78	240m	7.76 ppbv	
11) Trichloroethene	4.63	130	302055	20059.45 ppbv	94
13) Toluene	5.11	91	231	7.67 ppbv	96
14) Tetrachloroethene	5.43	166	11948	660.01 ppbv	96

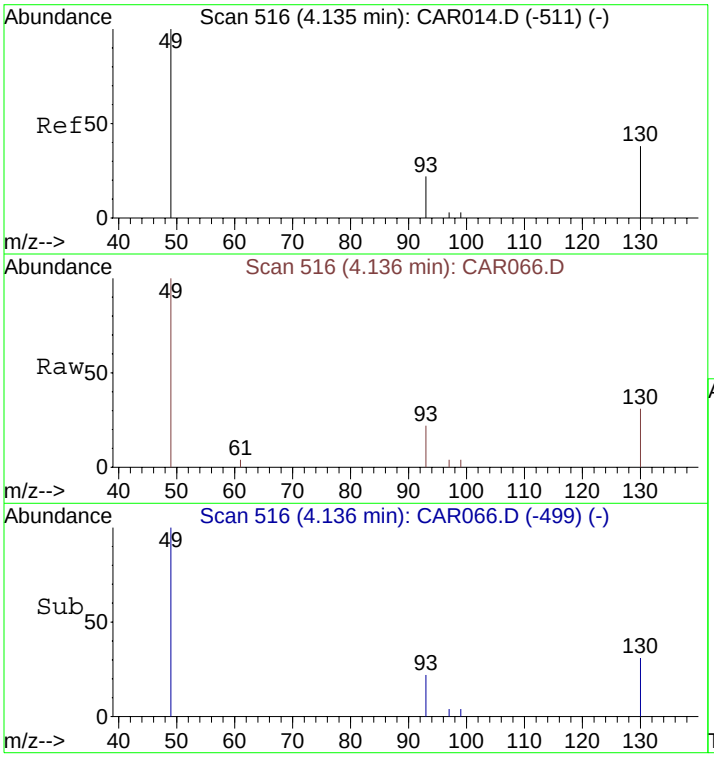
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR066.D Vial: 1
Acq On : 17 Sep 2008 00:10 Operator: dlm
Sample : 51405\D10-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:18 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Mon Sep 29 09:49:45 2008
Response via : Initial Calibration

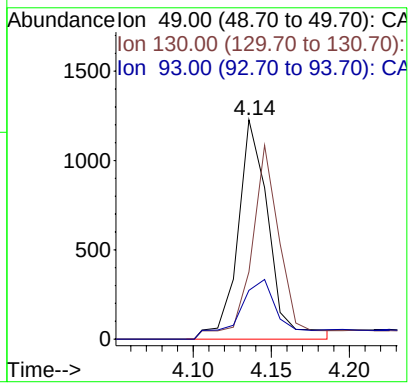


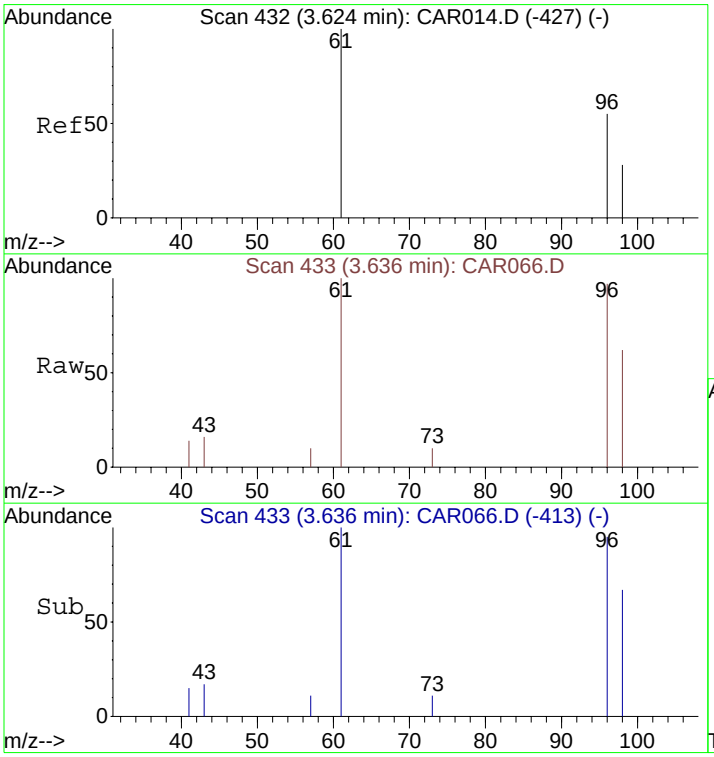


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR066.D
Acq: 17 Sep 2008 00:10

Tgt Ion: 49 Resp: 1530

Ion	Ratio	Lower	Upper
49	100		
130	82.7	65.1	97.7
93	35.0	33.8	50.6

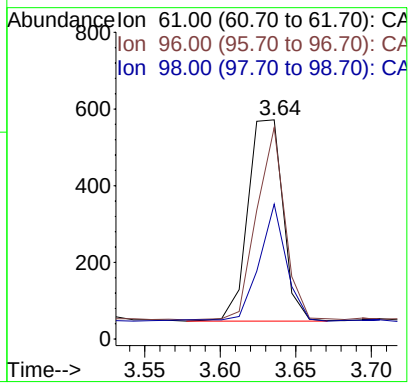


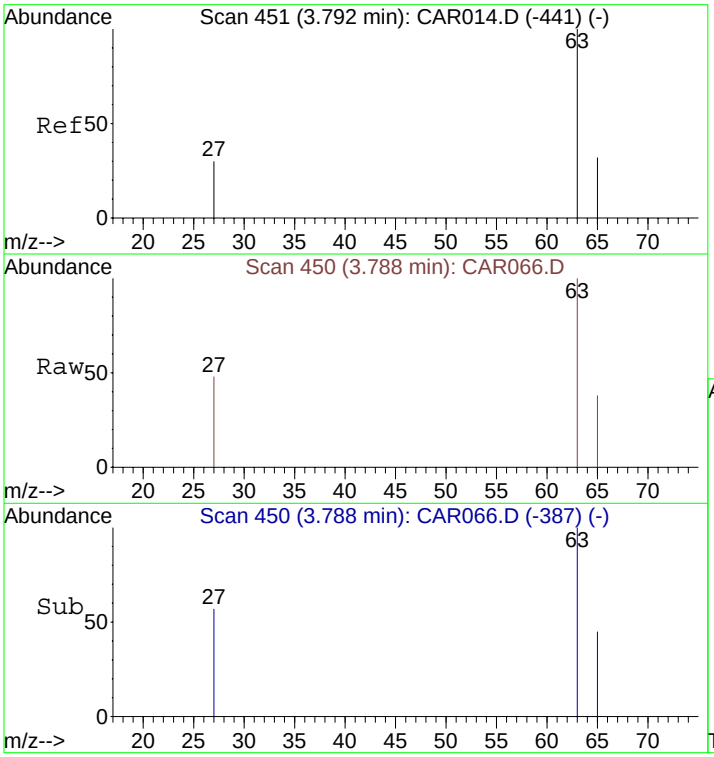


#5
trans-1,2-Dichloroethene
Concen: 66.04 ppbv
RT: 3.64 min Scan# 433
Delta R.T. 0.01 min
Lab File: CAR066.D
Acq: 17 Sep 2008 00:10

Tgt Ion: 61 Resp: 849

Ion	Ratio	Lower	Upper
61	100		
96	76.3	55.0	82.4
98	44.6	35.6	53.4

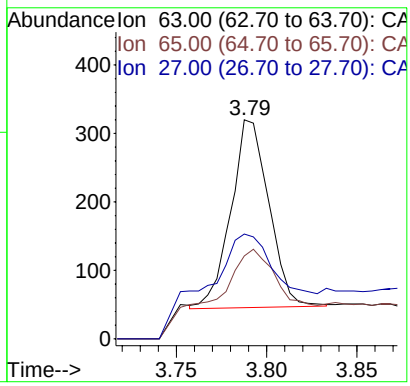


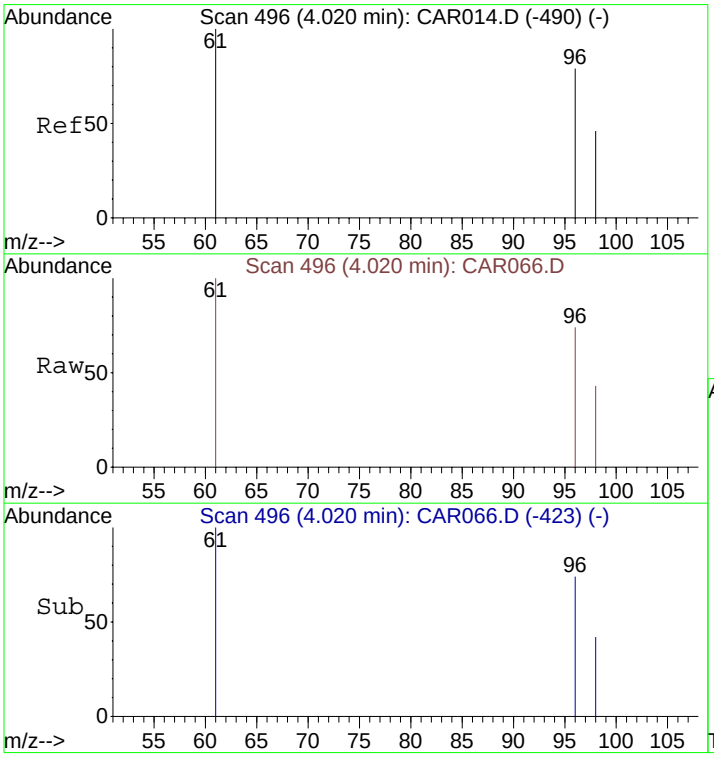


#6
1,1-Dichloroethane
Concen: 23.81 ppbv m
RT: 3.79 min Scan# 450
Delta R.T. -0.00 min
Lab File: CAR066.D
Acq: 17 Sep 2008 00:10

Tgt Ion: 63 Resp: 402

Ion	Ratio	Lower	Upper
63	100		
65	29.4	23.5	35.3
27	33.3	26.7	40.1

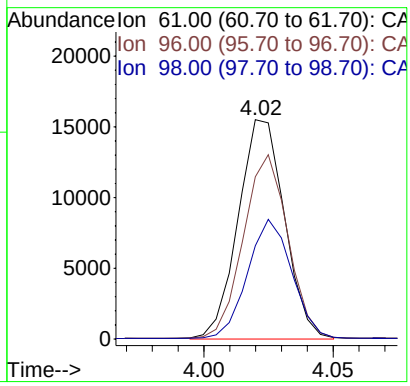


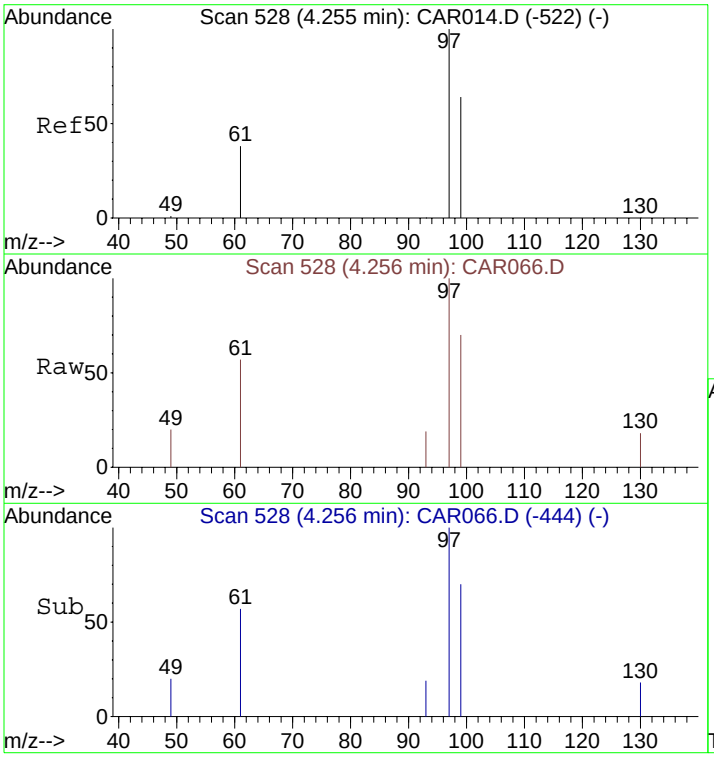


#7
cis-1,2-Dichloroethene
Concen: 1506.27 ppbv m
RT: 4.02 min Scan# 496
Delta R.T. 0.00 min
Lab File: CAR066.D
Acq: 17 Sep 2008 00:10

Tgt Ion: 61 Resp: 19361

Ion	Ratio	Lower	Upper
61	100		
96	81.1	56.0	84.0
98	52.4	36.2	54.4

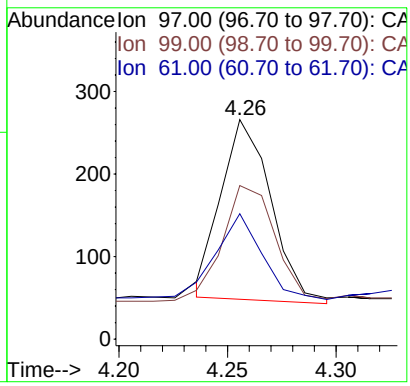


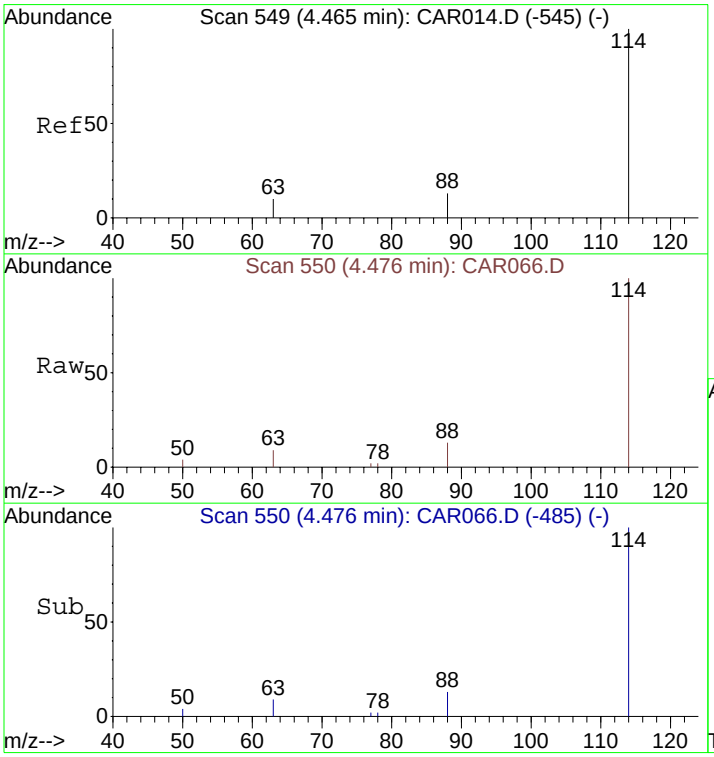


#8
1,1,1-Trichloroethane
Concen: 18.17 ppbv m
RT: 4.26 min Scan# 528
Delta R.T. 0.00 min
Lab File: CAR066.D
Acq: 17 Sep 2008 00:10

Tgt Ion: 97 Resp: 347

Ion	Ratio	Lower	Upper
97	100		
99	68.6	51.8	77.8
61	45.5	32.1	48.1

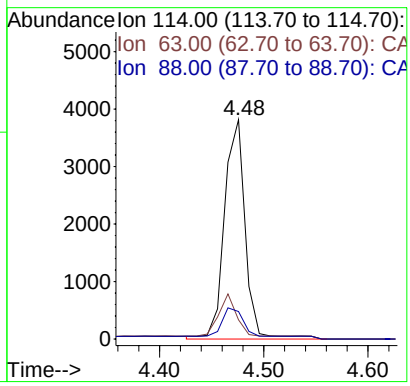


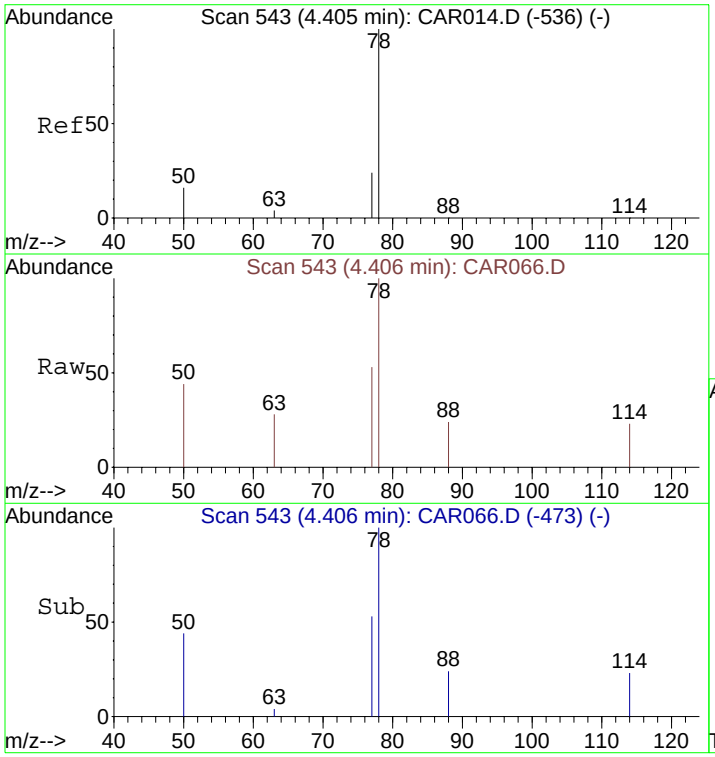


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR066.D
Acq: 17 Sep 2008 00:10

Tgt Ion:114 Resp: 5085

Ion	Ratio	Lower	Upper
114	100		
63	23.2	15.8	23.8
88	18.5	12.2	18.2#

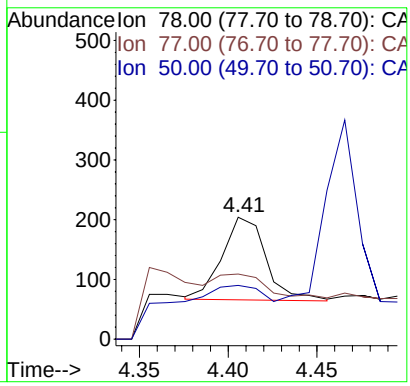


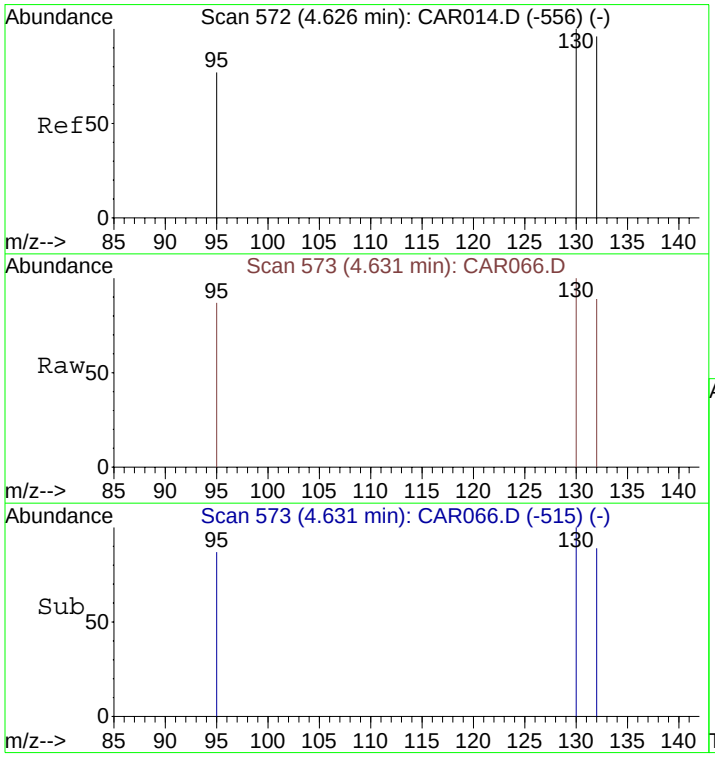


#10
Benzene
Concen: 7.76 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR066.D
Acq: 17 Sep 2008 00:10

Tgt Ion: 78 Resp: 240

Ion	Ratio	Lower	Upper
78	100		
77	15.8	18.6	28.0#
50	27.9	16.2	24.4#

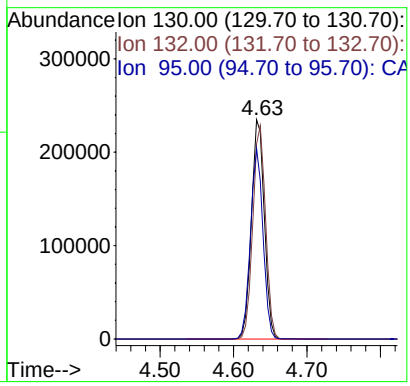


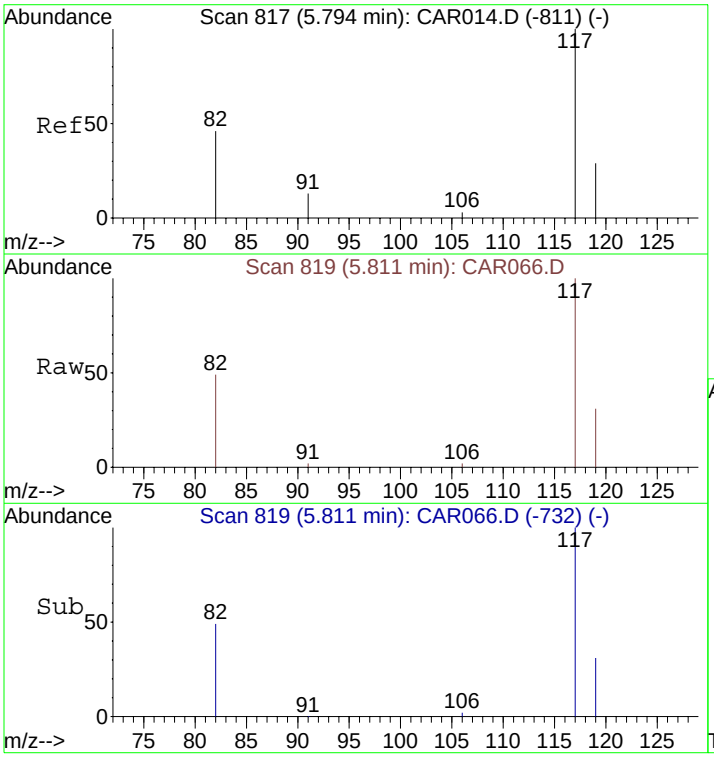


#11
Trichloroethene
Concen: 20059.45 ppbv
RT: 4.63 min Scan# 573
Delta R.T. 0.01 min
Lab File: CAR066.D
Acq: 17 Sep 2008 00:10

Tgt Ion:130 Resp: 302055

Ion	Ratio	Lower	Upper
130	100		
132	91.3	73.8	110.6
95	80.1	72.5	108.7

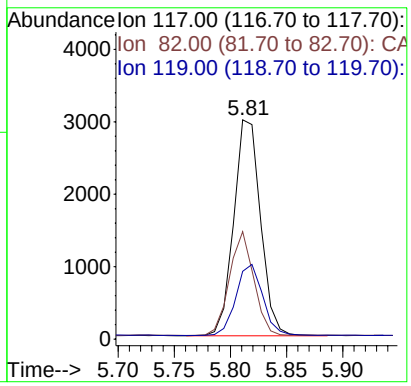


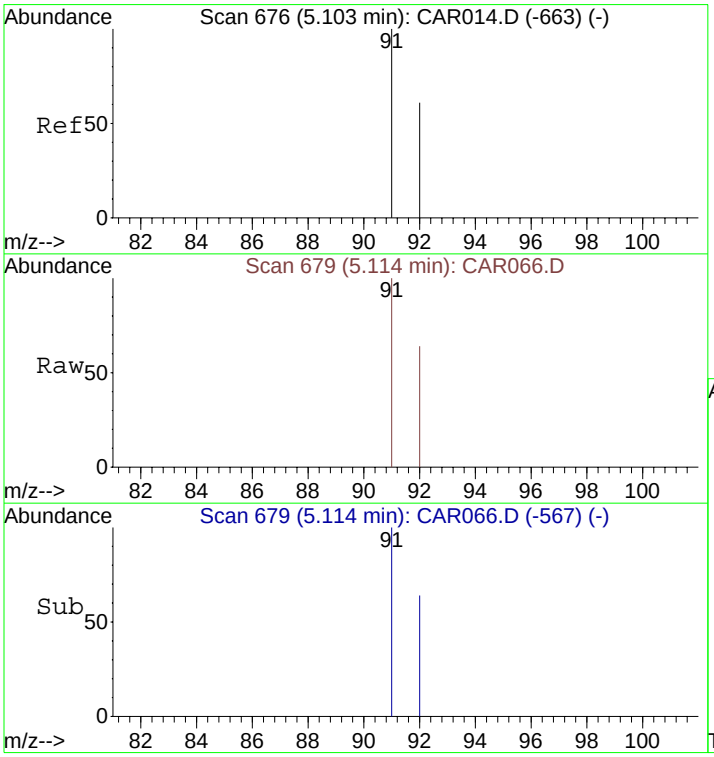


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.81 min Scan# 819
Delta R.T. 0.02 min
Lab File: CAR066.D
Acq: 17 Sep 2008 00:10

Tgt Ion:117 Resp: 4956

Ion	Ratio	Lower	Upper
117	100		
82	43.5	38.3	57.5
119	33.0	26.0	39.0

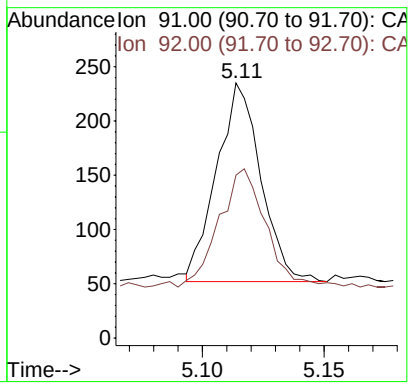


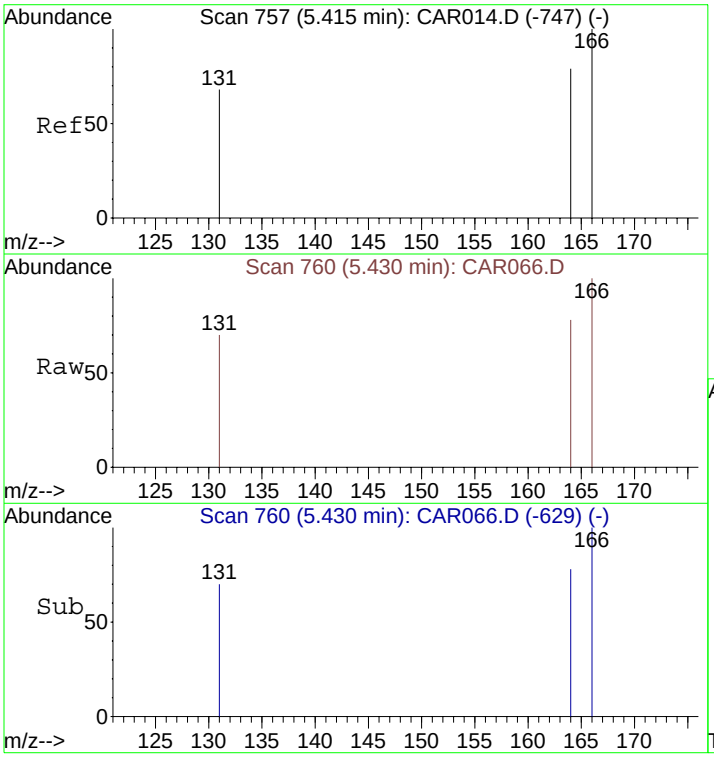


#13
Toluene
Concen: 7.67 ppbv
RT: 5.11 min Scan# 679
Delta R.T. 0.01 min
Lab File: CAR066.D
Acq: 17 Sep 2008 00:10

Tgt Ion: 91 Resp: 231

Ion	Ratio	Lower	Upper
91	100		
92	63.2	48.2	72.2

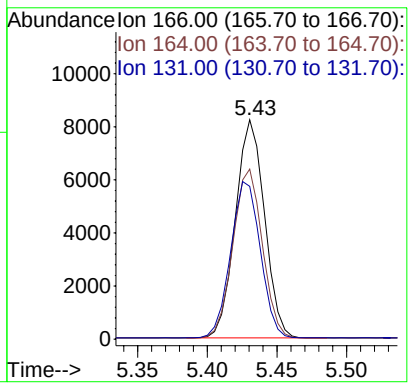




#14
Tetrachloroethene
Concen: 660.01 ppbv
RT: 5.43 min Scan# 760
Delta R.T. 0.02 min
Lab File: CAR066.D
Acq: 17 Sep 2008 00:10

Tgt Ion:166 Resp: 11948

Ion	Ratio	Lower	Upper
166	100		
164	78.0	63.1	94.7
131	72.8	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR067.D Vial: 1
Acq On : 17 Sep 2008 00:21 Operator: dlm
Sample : 51401\D12-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 00:29:39 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1584	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	5009	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.80	117	4697	10.00 ppbv	0.00

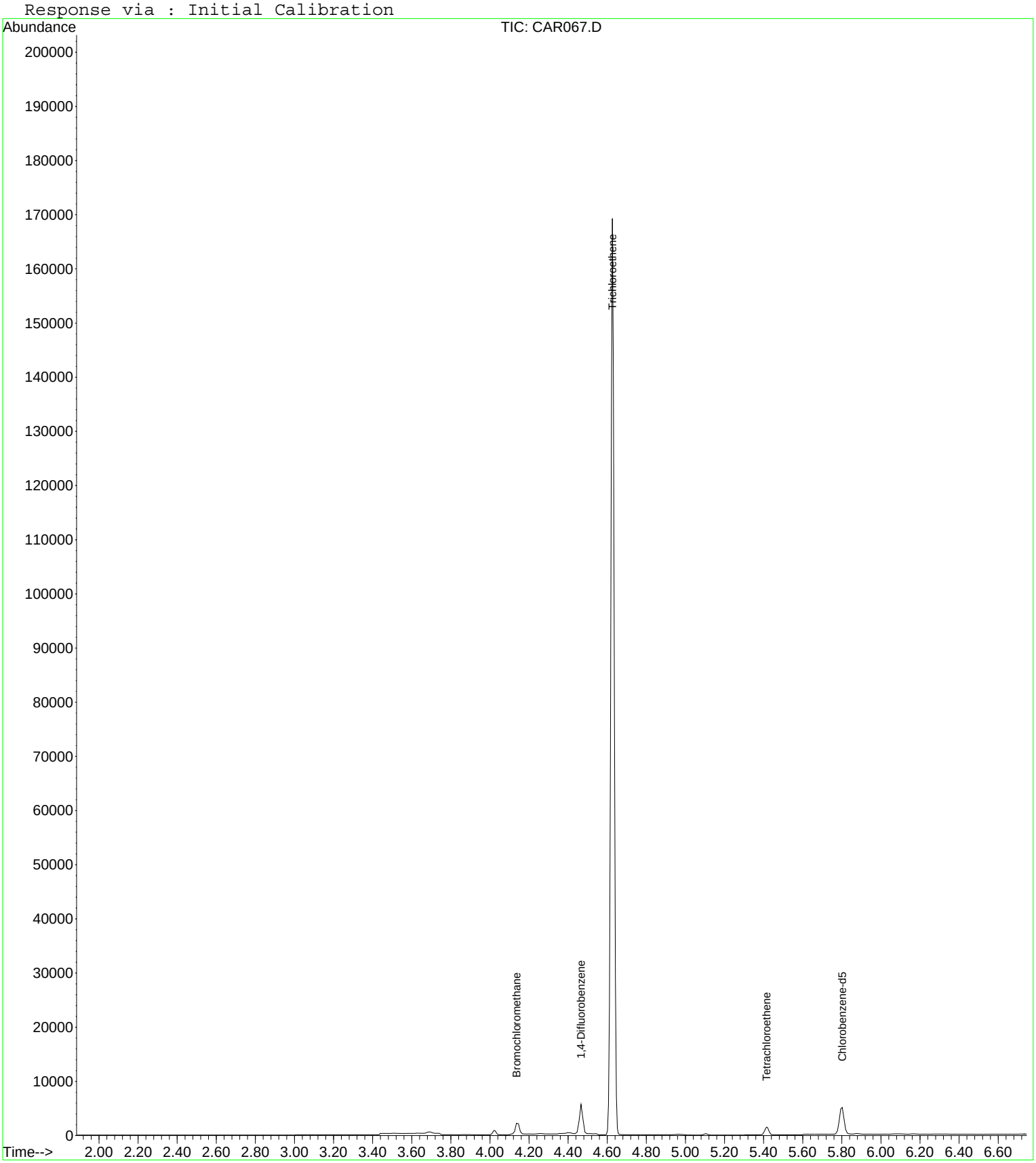
Target Compounds					Qvalue
7) cis-1,2-Dichloroethene	4.02	61	433	32.54 ppbv	89
10) Benzene	4.41	78	212m	6.96 ppbv	
11) Trichloroethene	4.63	130	71058	4790.56 ppbv	95
13) Toluene	5.10	91	205	7.19 ppbv	96
14) Tetrachloroethene	5.42	166	860	50.13 ppbv	95

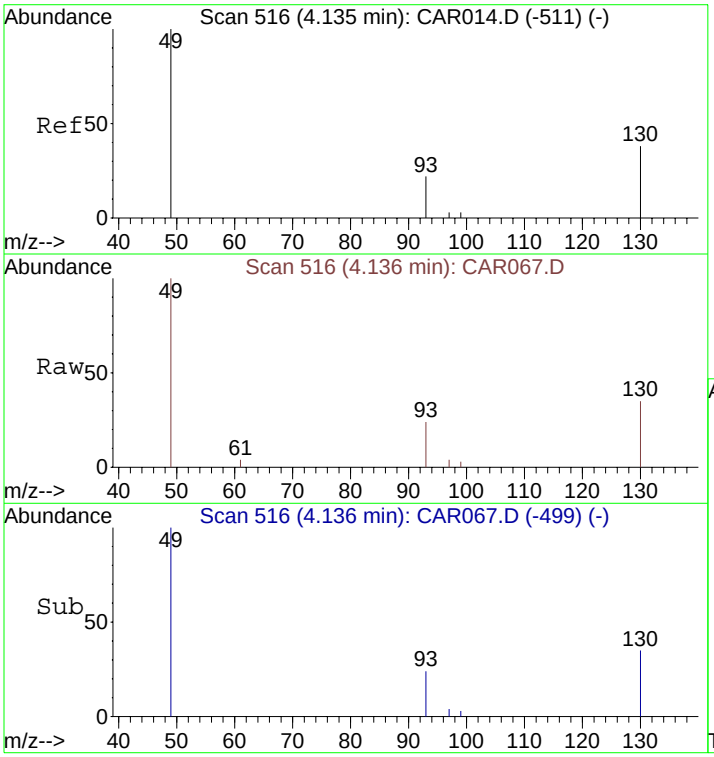
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR067.D Vial: 1
Acq On : 17 Sep 2008 00:21 Operator: dlm
Sample : 51401\D12-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:20 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Mon Sep 29 09:49:45 2008
Response via : Initial Calibration

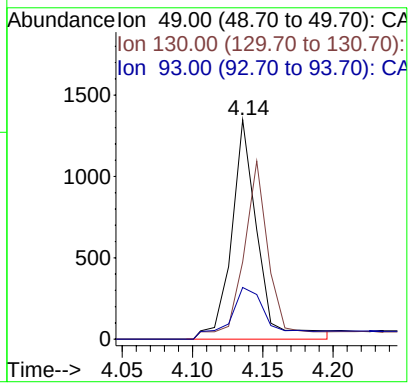


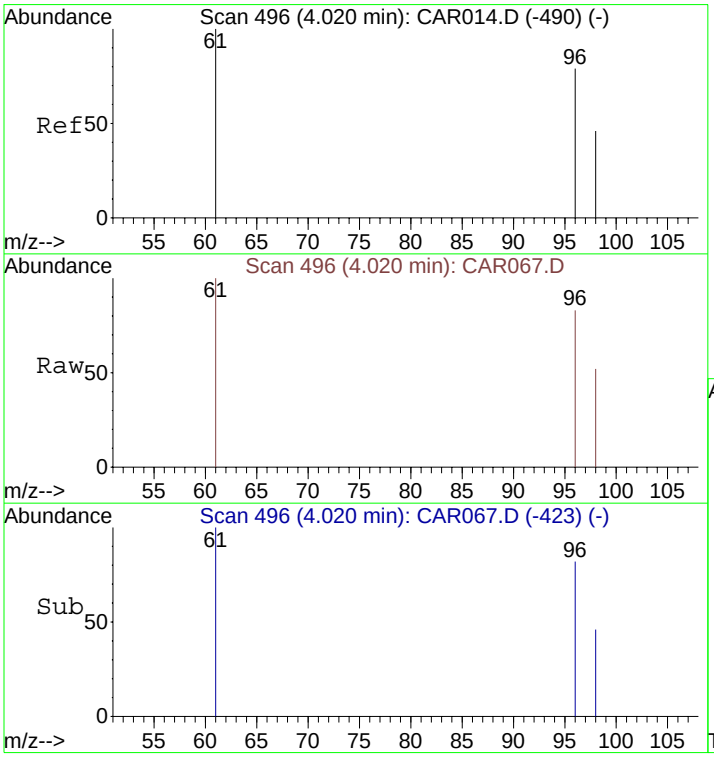


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR067.D
Acq: 17 Sep 2008 00:21

Tgt Ion: 49 Resp: 1584

Ion	Ratio	Lower	Upper
49	100		
130	78.9	65.1	97.7
93	35.0	33.8	50.6

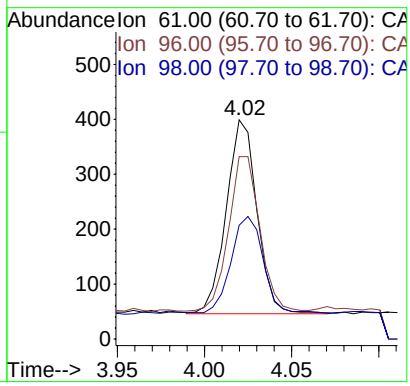


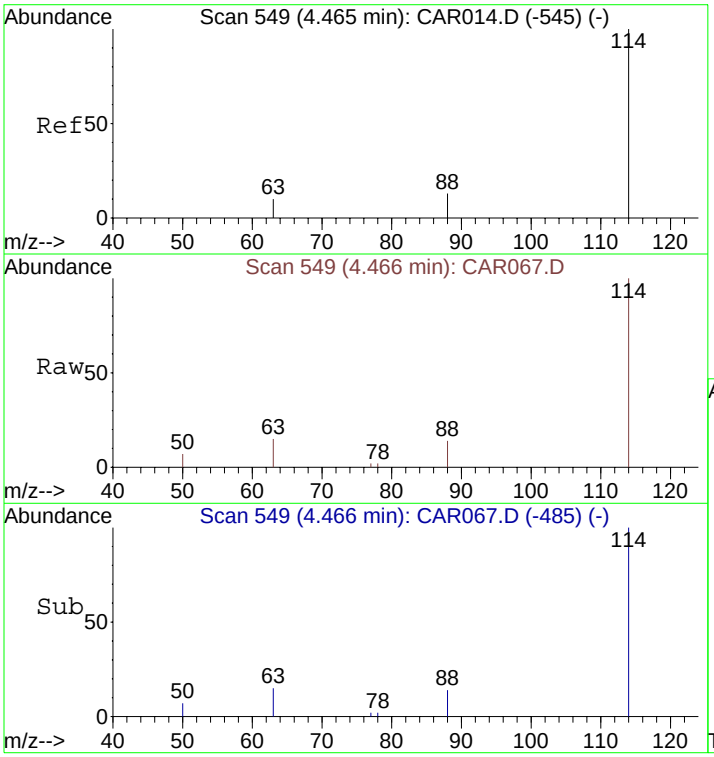


#7
cis-1,2-Dichloroethene
Concen: 32.54 ppbv
RT: 4.02 min Scan# 496
Delta R.T. 0.00 min
Lab File: CAR067.D
Acq: 17 Sep 2008 00:21

Tgt Ion: 61 Resp: 433

Ion	Ratio	Lower	Upper
61	100		
96	79.4	56.0	84.0
98	52.0	36.2	54.4

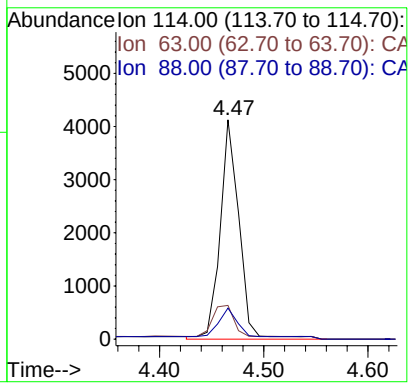


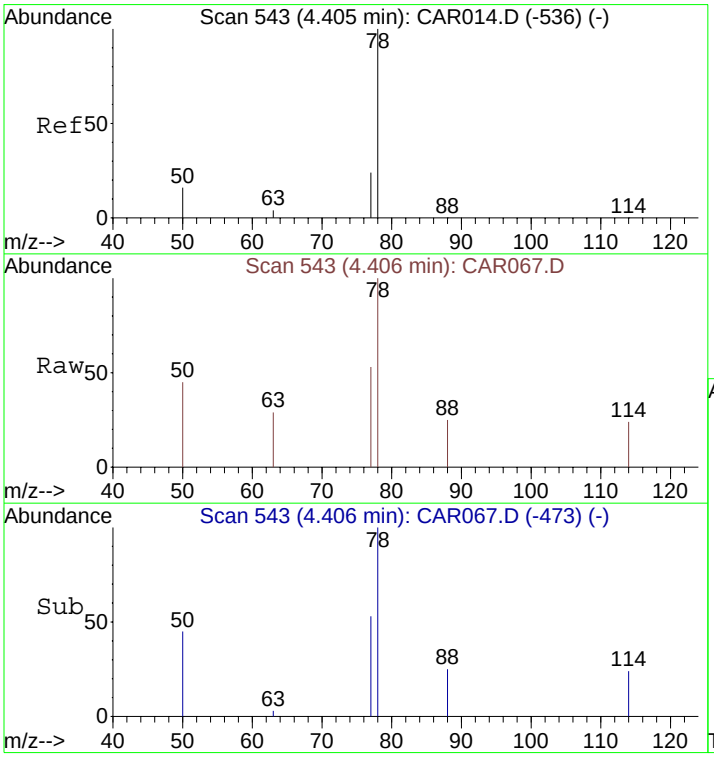


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. 0.00 min
Lab File: CAR067.D
Acq: 17 Sep 2008 00:21

Tgt Ion:114 Resp: 5009

Ion	Ratio	Lower	Upper
114	100		
63	22.8	15.8	23.8
88	13.8	12.2	18.2

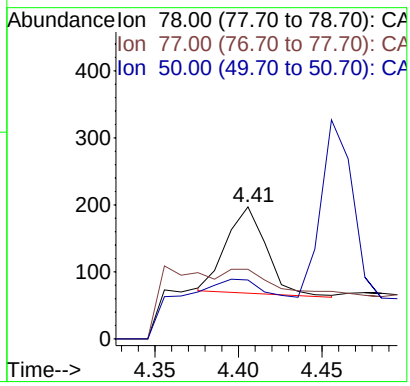


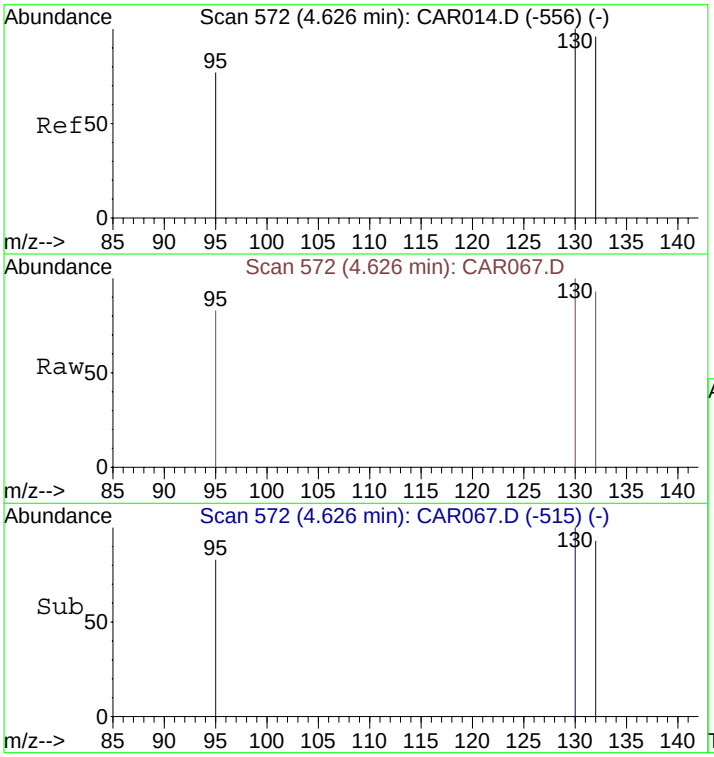


#10
Benzene
Concen: 6.96 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR067.D
Acq: 17 Sep 2008 00:21

Tgt Ion: 78 Resp: 212

Ion	Ratio	Lower	Upper
78	100		
77	15.6	18.6	28.0#
50	18.9	16.2	24.4

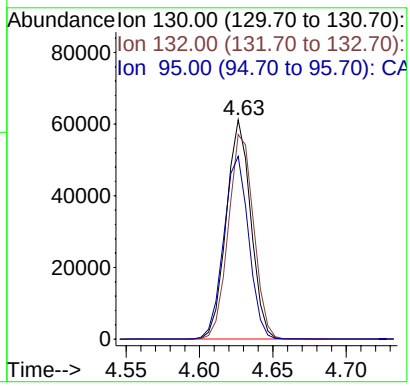


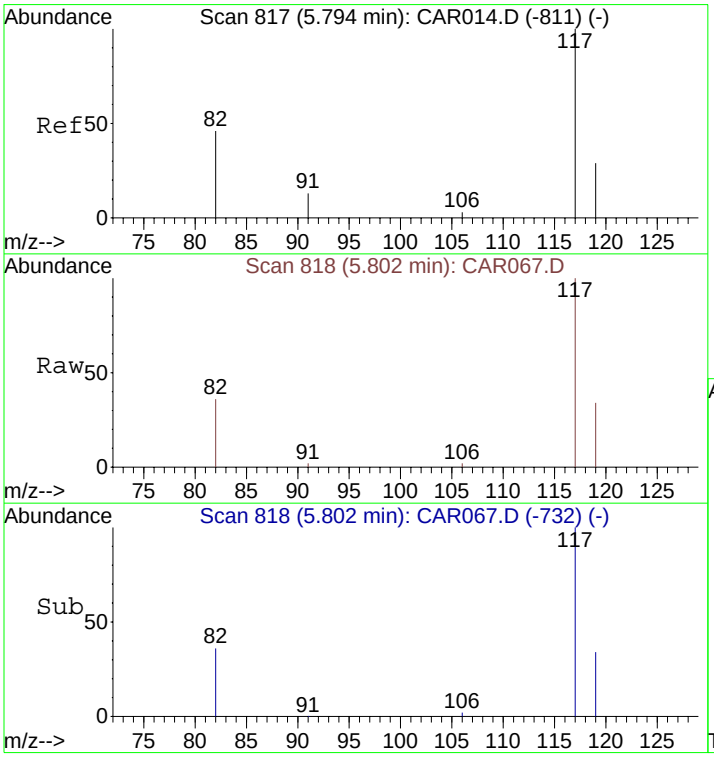


#11
Trichloroethene
Concen: 4790.56 ppbv
RT: 4.63 min Scan# 572
Delta R.T. 0.00 min
Lab File: CAR067.D
Acq: 17 Sep 2008 00:21

Tgt Ion:130 Resp: 71058

Ion	Ratio	Lower	Upper
130	100		
132	96.2	73.8	110.6
95	85.1	72.5	108.7

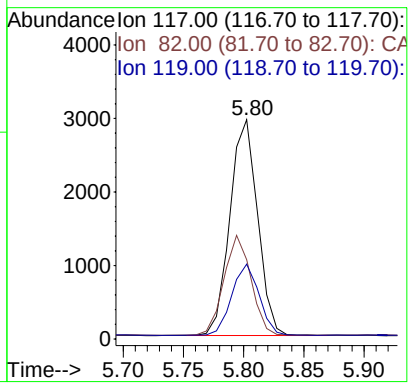


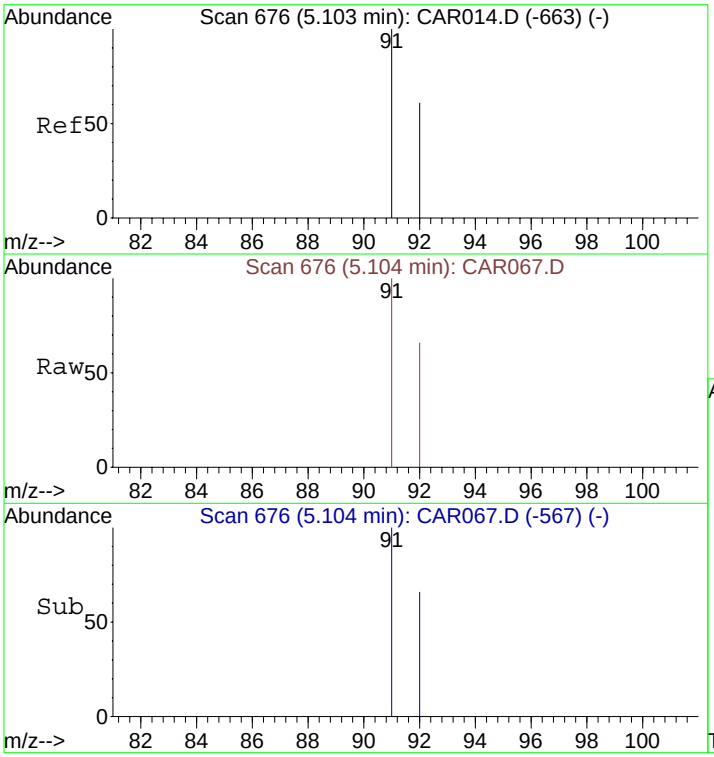


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.80 min Scan# 818
Delta R.T. 0.01 min
Lab File: CAR067.D
Acq: 17 Sep 2008 00:21

Tgt Ion:117 Resp: 4697

Ion	Ratio	Lower	Upper
117	100		
82	45.2	38.3	57.5
119	32.5	26.0	39.0

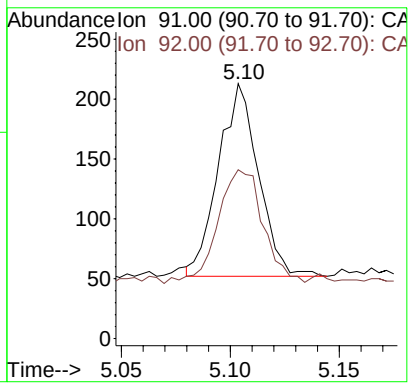


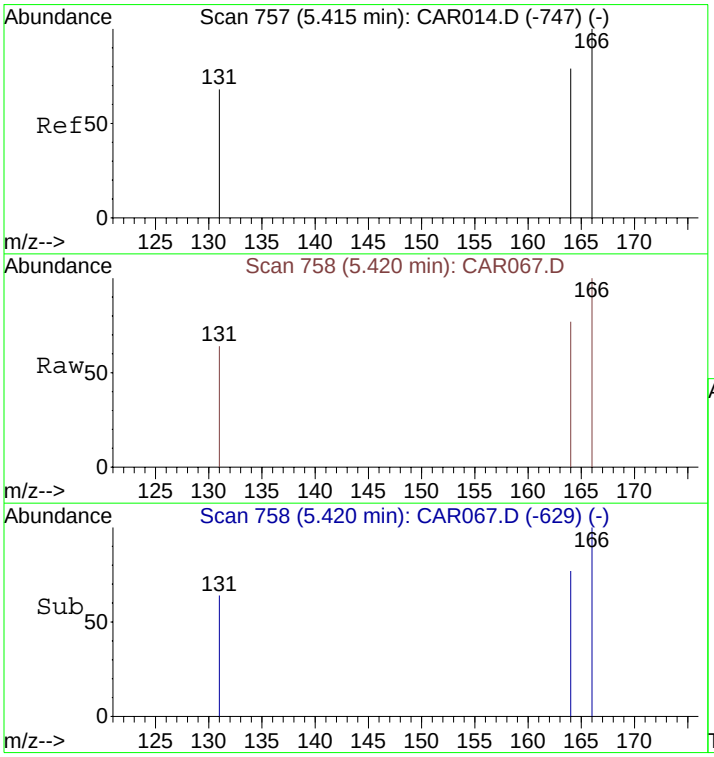


#13
Toluene
Concen: 7.19 ppbv
RT: 5.10 min Scan# 676
Delta R.T. 0.00 min
Lab File: CAR067.D
Acq: 17 Sep 2008 00:21

Tgt Ion: 91 Resp: 205

Ion	Ratio	Lower	Upper
91	100		
92	63.4	48.2	72.2

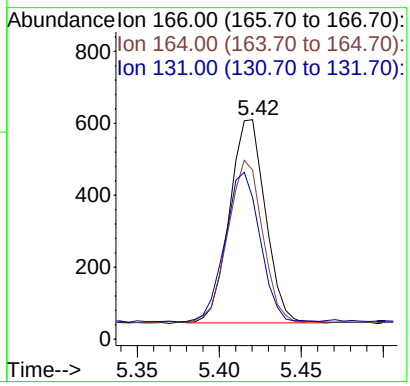




#14
Tetrachloroethene
Concen: 50.13 ppbv
RT: 5.42 min Scan# 758
Delta R.T. 0.01 min
Lab File: CAR067.D
Acq: 17 Sep 2008 00:21

Tgt Ion:166 Resp: 860

Ion	Ratio	Lower	Upper
166	100		
164	76.5	63.1	94.7
131	71.4	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR068.D Vial: 1
Acq On : 17 Sep 2008 00:38 Operator: dlm
Sample : 51411\E7-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 00:46:04 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1562	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	5012	10.00 ppbv	0.01
12) Chlorobenzene-d5	5.81	117	4769	10.00 ppbv	0.02

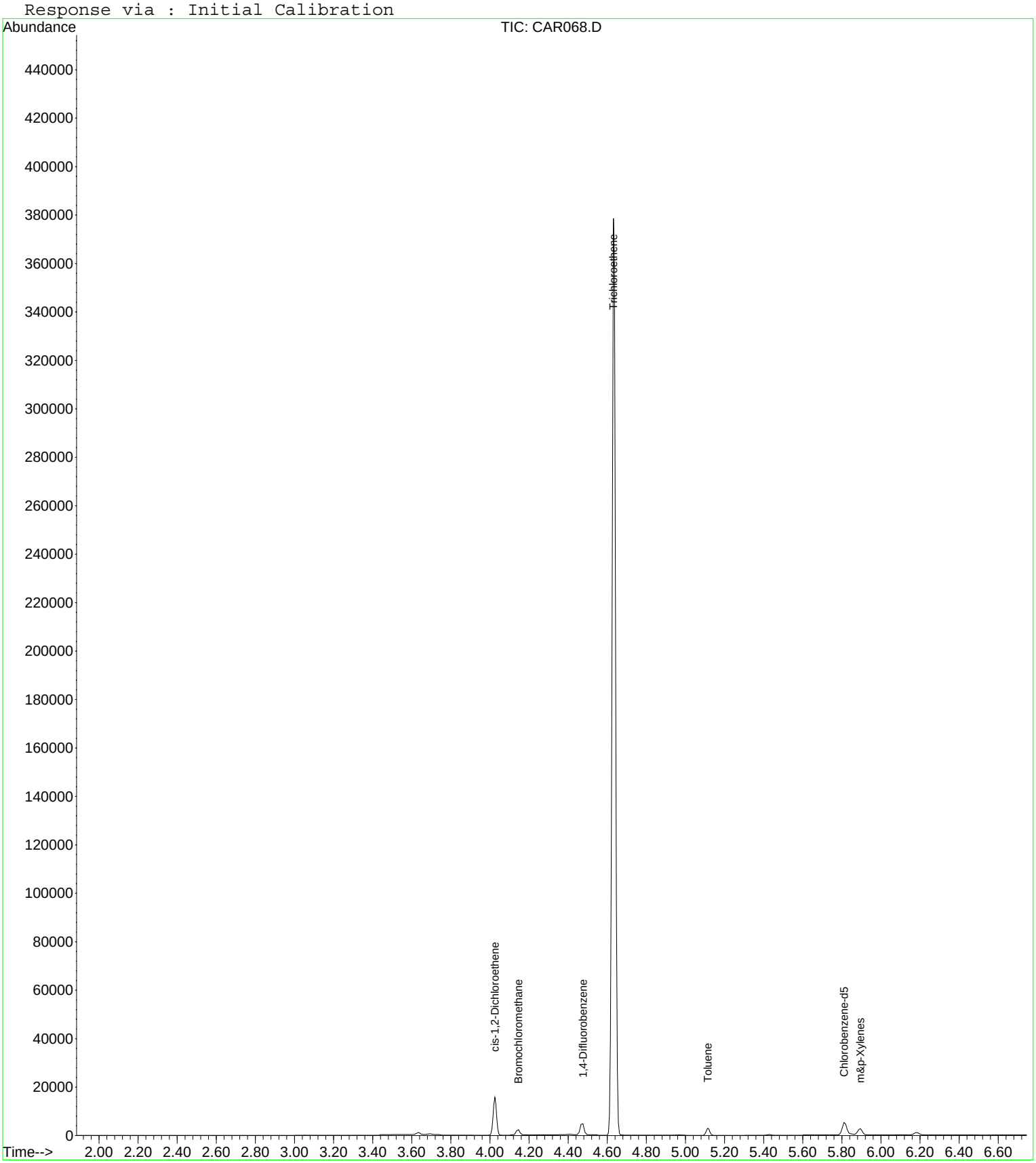
Target Compounds					Qvalue
5) trans-1,2-Dichloroethene	3.64	61	498	37.95 ppbv	87
7) cis-1,2-Dichloroethene	4.02	61	8122	618.94 ppbv	88
10) Benzene	4.41	78	272m	8.92 ppbv	
11) Trichloroethene	4.63	130	165580	11156.32 ppbv	95
13) Toluene	5.11	91	2372	81.90 ppbv	100
14) Tetrachloroethene	5.43	166	172	9.87 ppbv	91
15) Ethylbenzene	5.84	91	558	16.64 ppbv #	42
16) m&p-Xylenes	5.89	91	2798m	118.28 ppbv	
17) o-Xylene	6.18	91	1270	46.92 ppbv	91

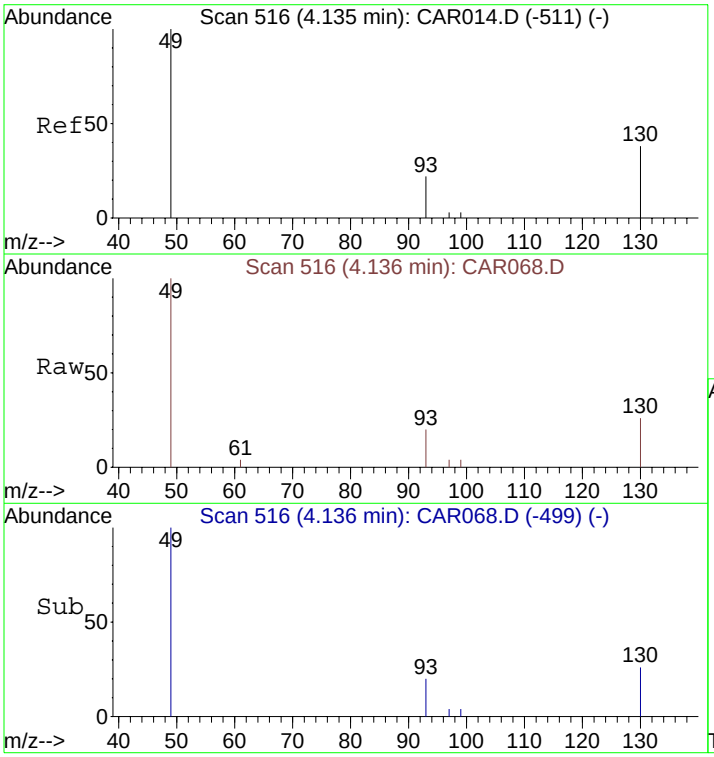
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR068.D Vial: 1
Acq On : 17 Sep 2008 00:38 Operator: dlm
Sample : 51411\E7-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 29 16:15 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Mon Sep 29 09:49:45 2008
Response via : Initial Calibration

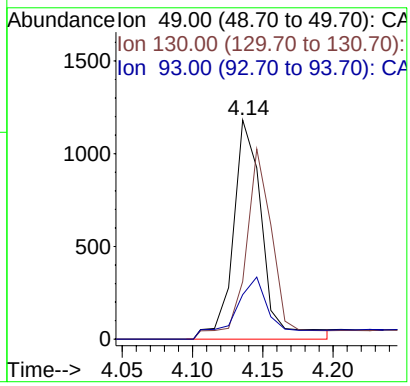


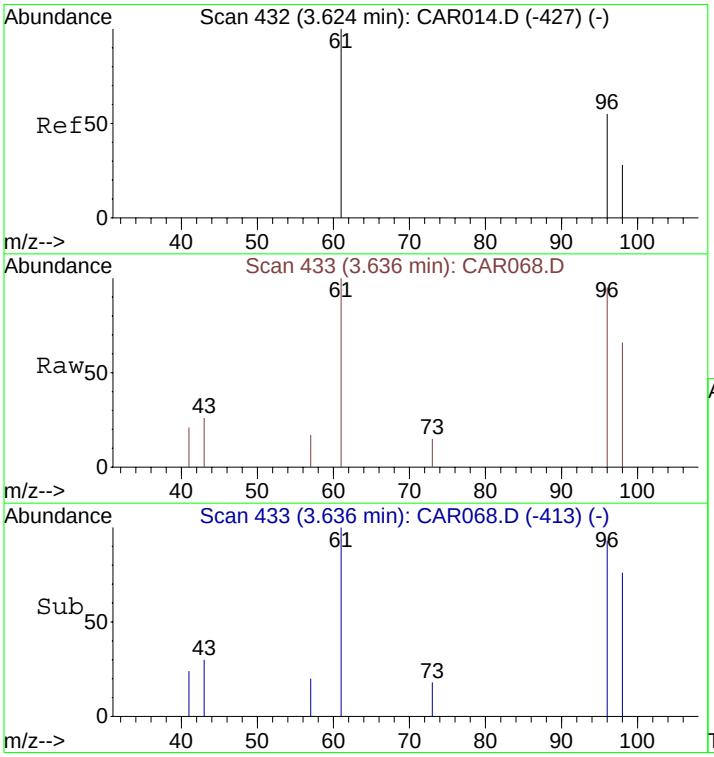


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR068.D
Acq: 17 Sep 2008 00:38

Tgt Ion: 49 Resp: 1562

Ion	Ratio	Lower	Upper
49	100		
130	82.0	65.1	97.7
93	35.5	33.8	50.6

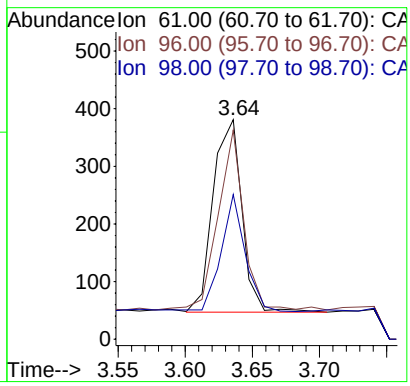


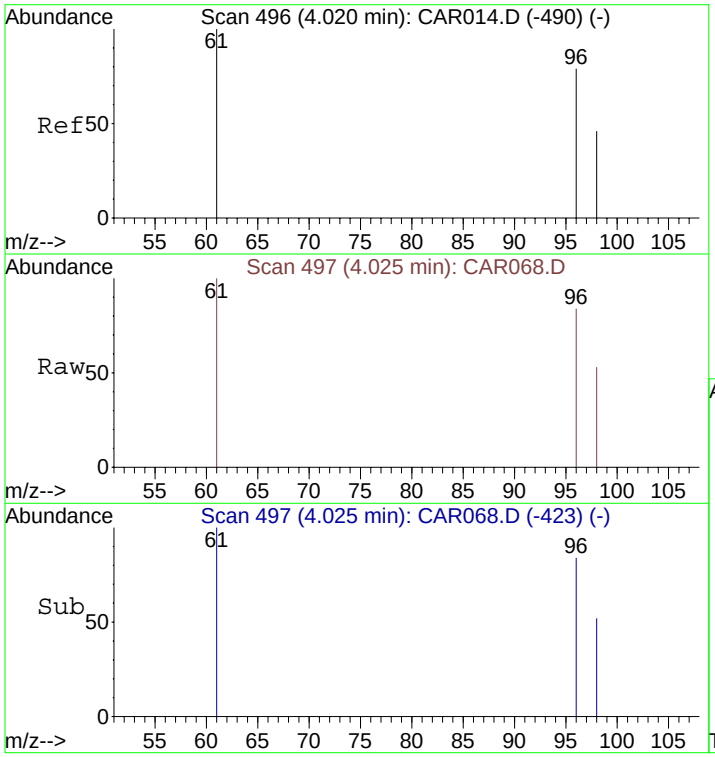


#5
trans-1,2-Dichloroethene
Concen: 37.95 ppbv
RT: 3.64 min Scan# 433
Delta R.T. 0.01 min
Lab File: CAR068.D
Acq: 17 Sep 2008 00:38

Tgt Ion: 61 Resp: 498

Ion	Ratio	Lower	Upper
61	100		
96	80.7	55.0	82.4
98	50.6	35.6	53.4

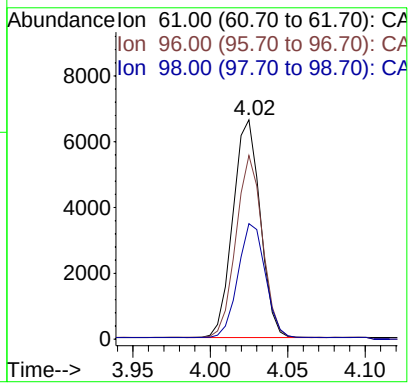


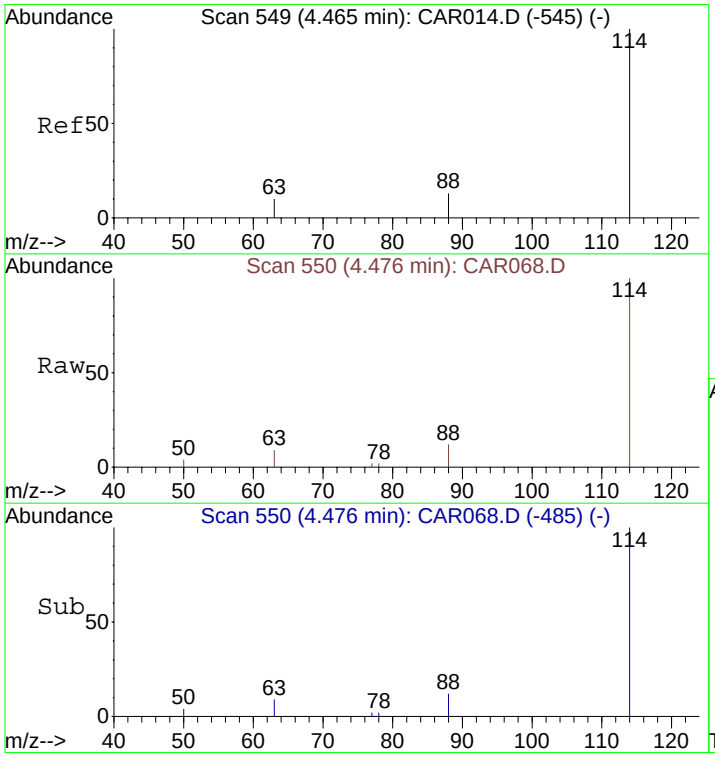


#7
cis-1,2-Dichloroethene
Concen: 618.94 ppbv
RT: 4.02 min Scan# 497
Delta R.T. 0.01 min
Lab File: CAR068.D
Acq: 17 Sep 2008 00:38

Tgt Ion: 61 Resp: 8122

Ion	Ratio	Lower	Upper
61	100		
96	80.5	56.0	84.0
98	52.2	36.2	54.4

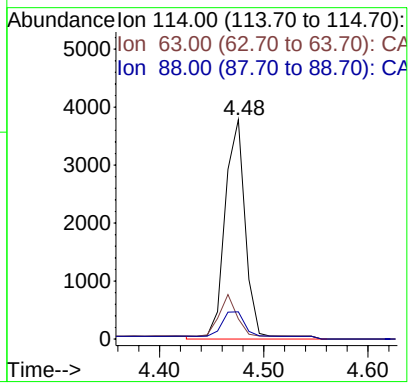


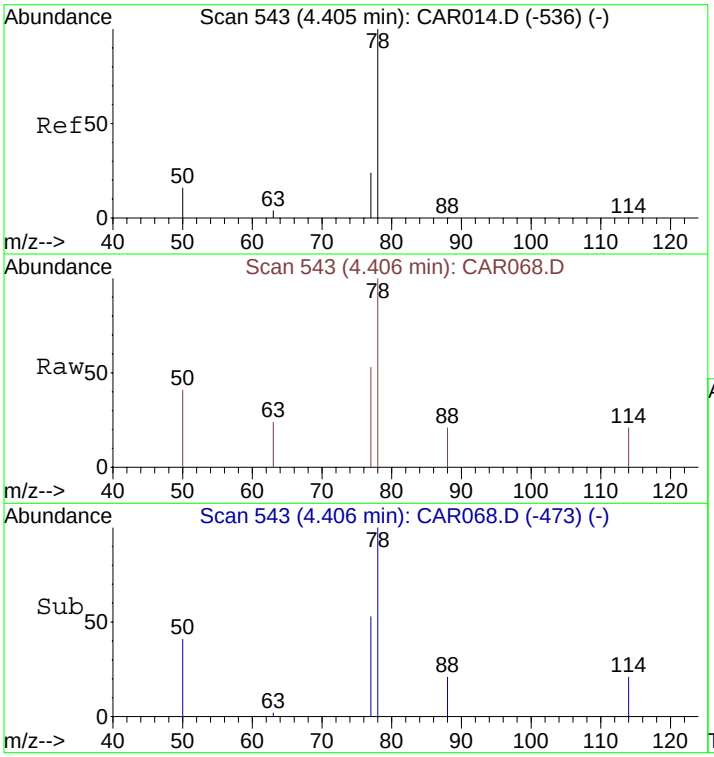


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR068.D
Acq: 17 Sep 2008 00:38

Tgt Ion:114 Resp: 5012

Ion	Ratio	Lower	Upper
114	100		
63	22.3	15.8	23.8
88	17.8	12.2	18.2

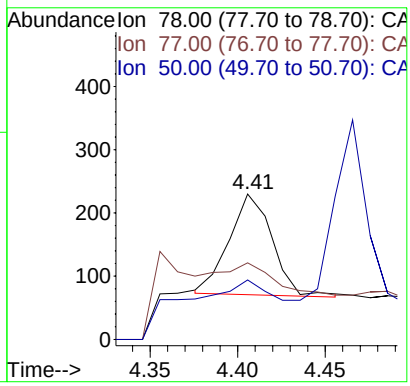


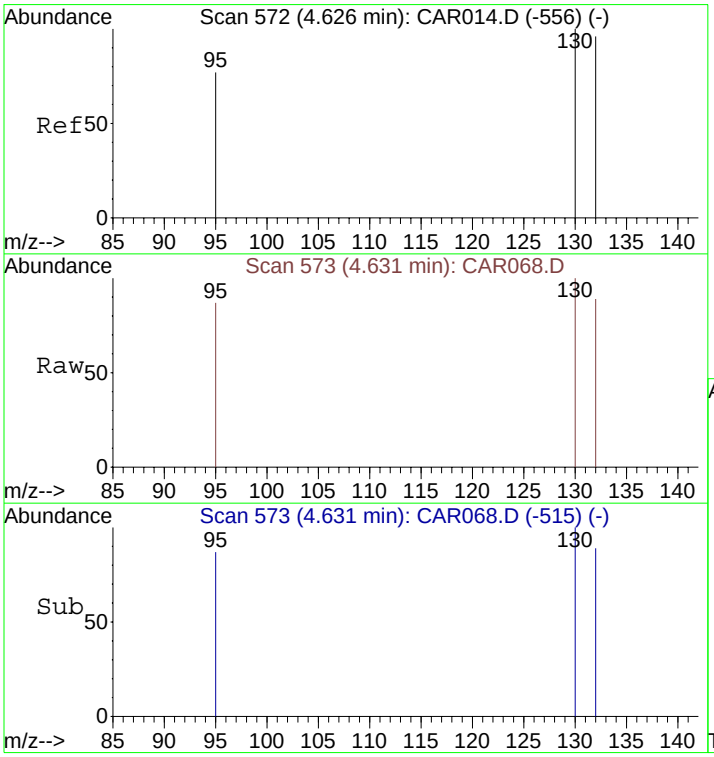


#10
Benzene
Concen: 8.92 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR068.D
Acq: 17 Sep 2008 00:38

Tgt Ion: 78 Resp: 272

Ion	Ratio	Lower	Upper
78	100		
77	18.8	18.6	28.0
50	19.5	16.2	24.4

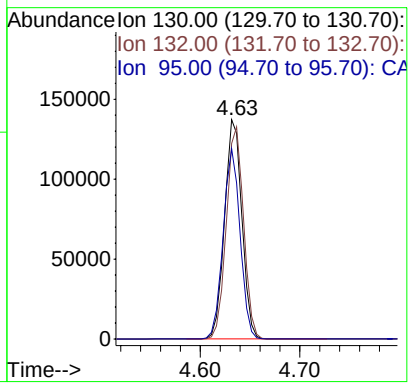


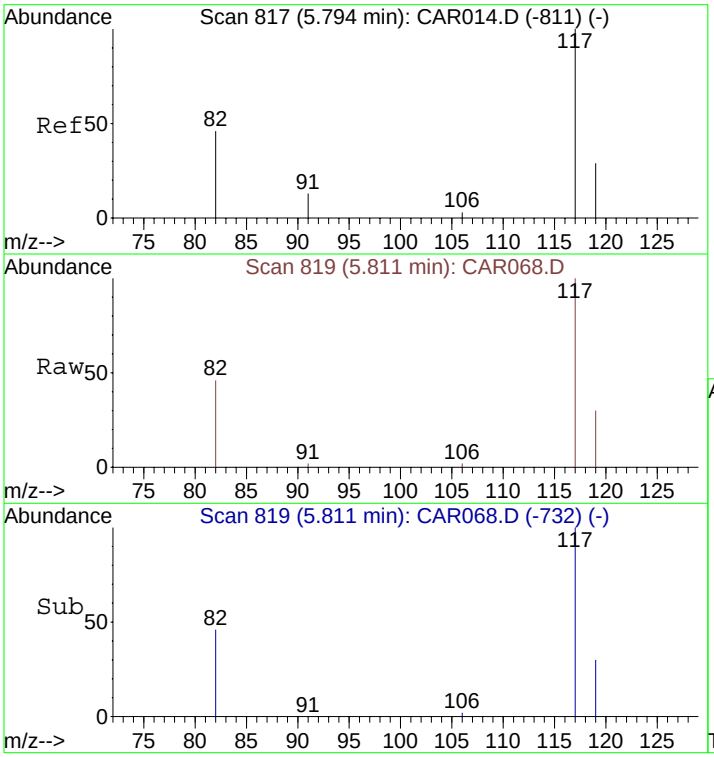


#11
Trichloroethene
Concen: 11156.32 ppbv
RT: 4.63 min Scan# 573
Delta R.T. 0.01 min
Lab File: CAR068.D
Acq: 17 Sep 2008 00:38

Tgt Ion:130 Resp: 165580

Ion	Ratio	Lower	Upper
130	100		
132	96.2	73.8	110.6
95	84.8	72.5	108.7

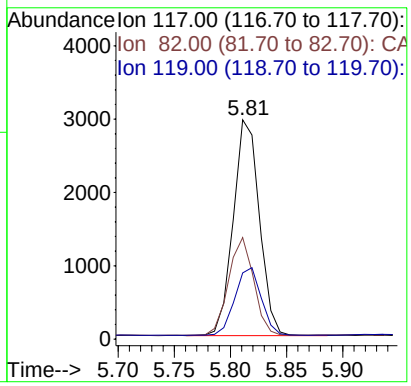


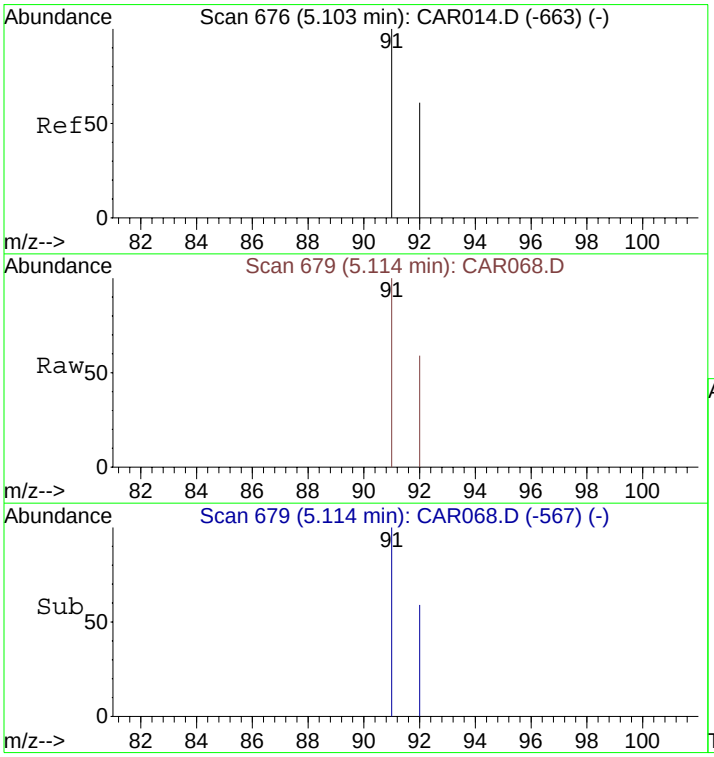


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.81 min Scan# 819
Delta R.T. 0.02 min
Lab File: CAR068.D
Acq: 17 Sep 2008 00:38

Tgt Ion:117 Resp: 4769

Ion	Ratio	Lower	Upper
117	100		
82	43.4	38.3	57.5
119	31.6	26.0	39.0

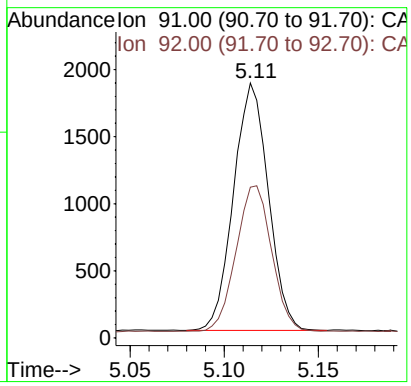


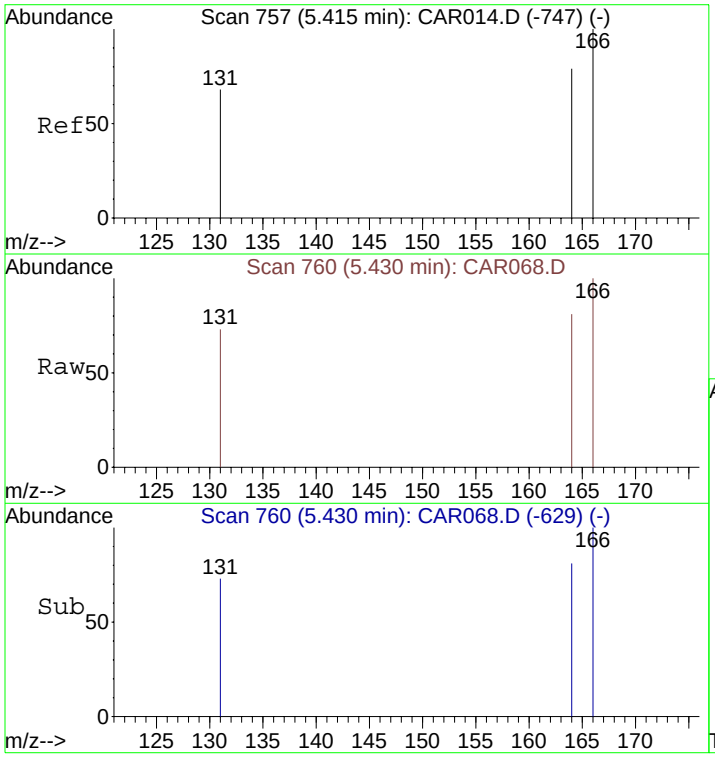


#13
Toluene
Concen: 81.90 ppbv
RT: 5.11 min Scan# 679
Delta R.T. 0.01 min
Lab File: CAR068.D
Acq: 17 Sep 2008 00:38

Tgt Ion: 91 Resp: 2372

Ion	Ratio	Lower	Upper
91	100		
92	59.9	48.2	72.2

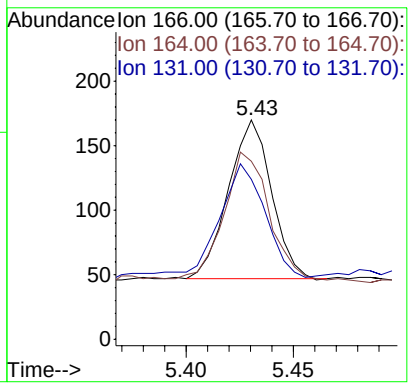


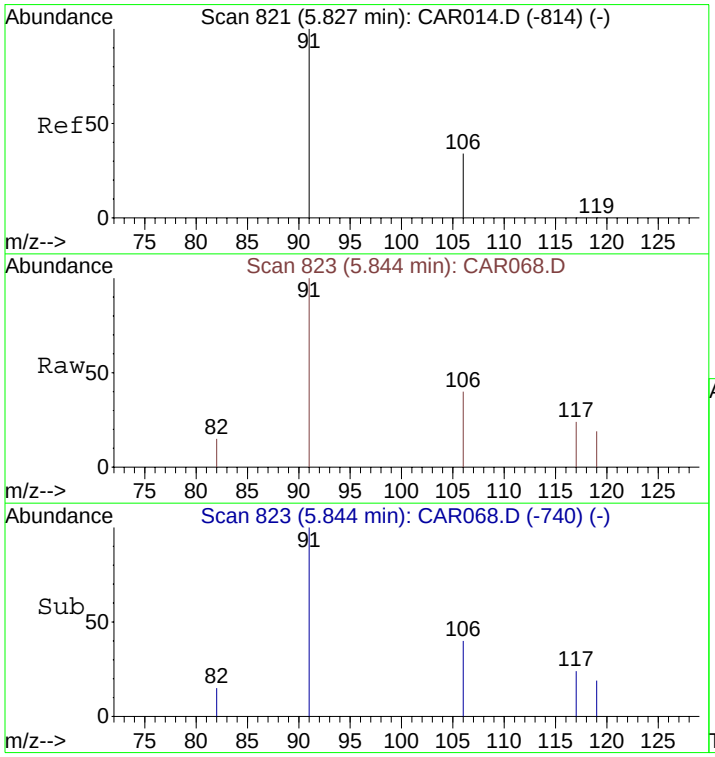


#14
Tetrachloroethene
Concen: 9.87 ppbv
RT: 5.43 min Scan# 760
Delta R.T. 0.02 min
Lab File: CAR068.D
Acq: 17 Sep 2008 00:38

Tgt Ion:166 Resp: 172

Ion	Ratio	Lower	Upper
166	100		
164	89.0	63.1	94.7
131	73.3	62.9	94.3

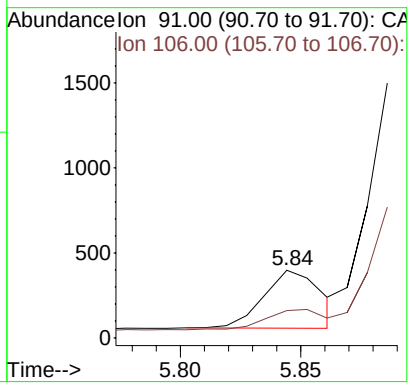


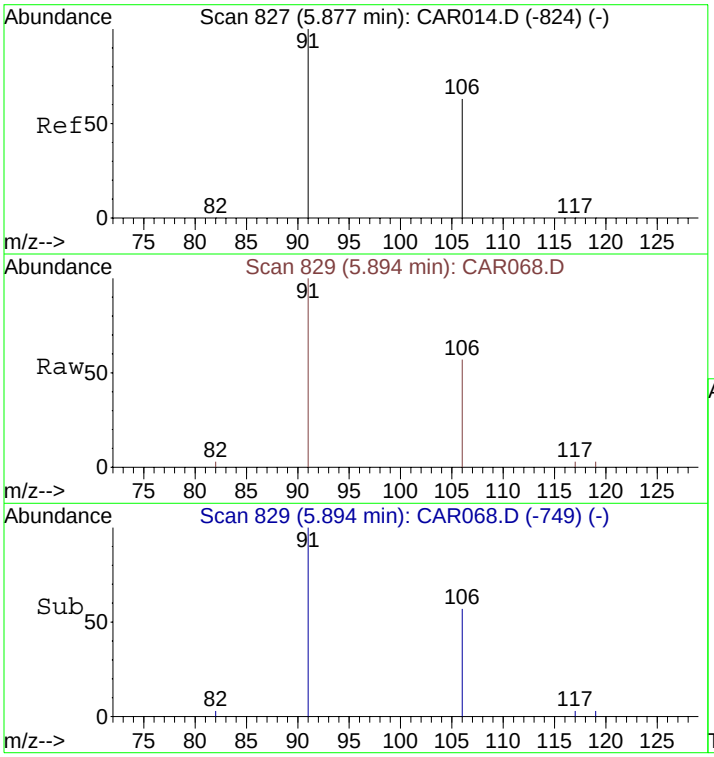


#15
Ethylbenzene
Concen: 16.64 ppbv
RT: 5.84 min Scan# 823
Delta R.T. 0.02 min
Lab File: CAR068.D
Acq: 17 Sep 2008 00:38

Tgt Ion: 91 Resp: 558

Ion	Ratio	Lower	Upper
91	100		
106	0.0	26.3	39.5#

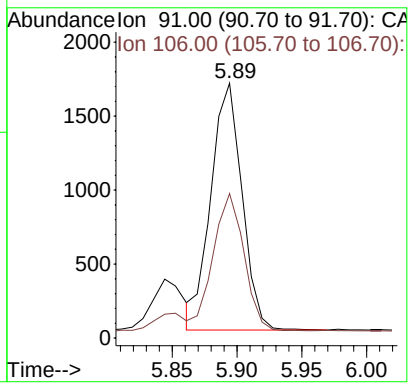


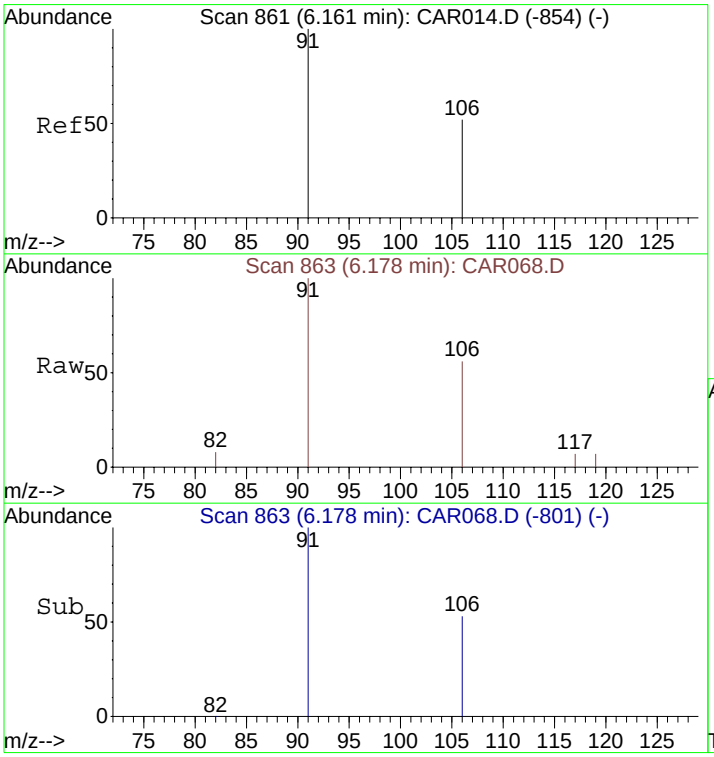


#16
m&p-Xylenes
Concen: 118.28 ppbv m
RT: 5.89 min Scan# 829
Delta R.T. 0.02 min
Lab File: CAR068.D
Acq: 17 Sep 2008 00:38

Tgt Ion: 91 Resp: 2798

Ion	Ratio	Lower	Upper
91	100		
106	59.8	41.8	62.8

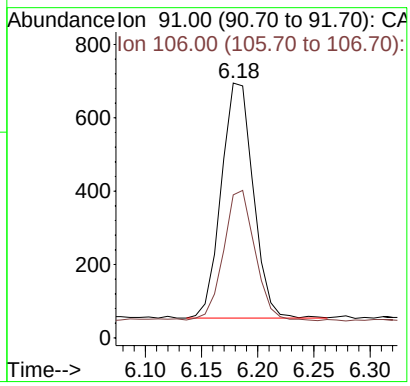




#17
o-Xylene
Concen: 46.92 ppbv
RT: 6.18 min Scan# 863
Delta R.T. 0.02 min
Lab File: CAR068.D
Acq: 17 Sep 2008 00:38

Tgt Ion: 91 Resp: 1270

Ion	Ratio	Lower	Upper
91	100		
106	54.6	38.9	58.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR069.D Vial: 1
Acq On : 17 Sep 2008 00:49 Operator: dlm
Sample : 51410\E8-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 00:57:27 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.14	49	1545	10.00	ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	5122	10.00	ppbv	0.01
12) Chlorobenzene-d5	5.81	117	4847	10.00	ppbv	0.02

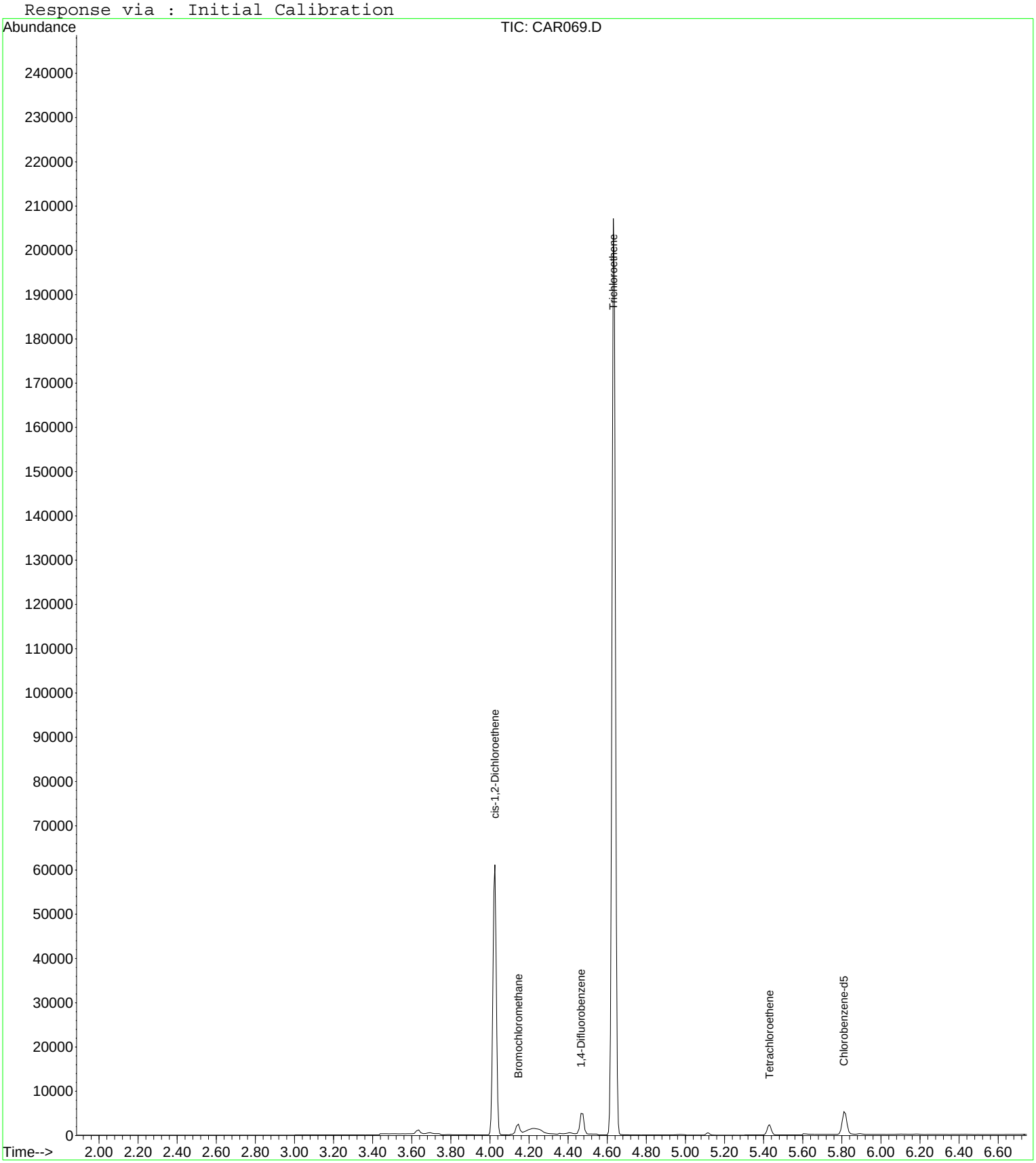
Target Compounds						Qvalue
5) trans-1,2-Dichloroethene	3.62	61	581	44.76	ppbv	97
7) cis-1,2-Dichloroethene	4.02	61	31796	2449.68	ppbv #	83
8) 1,1,1-Trichloroethane	4.26	97	143m	7.42	ppbv	
10) Benzene	4.41	78	273m	8.76	ppbv	
11) Trichloroethene	4.63	130	89480	5899.43	ppbv	95
13) Toluene	5.11	91	422	14.34	ppbv	99
14) Tetrachloroethene	5.43	166	1359	76.76	ppbv	97

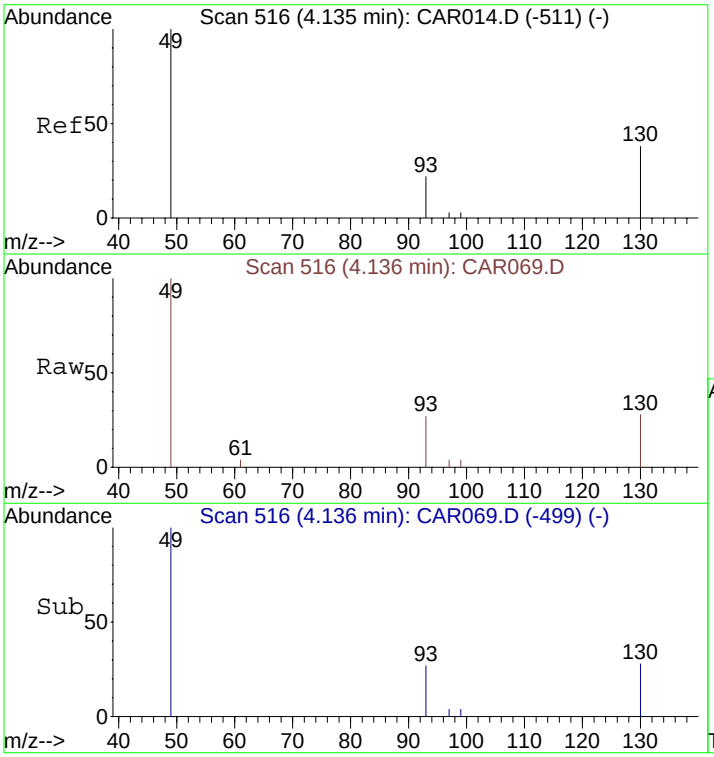
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR069.D Vial: 1
Acq On : 17 Sep 2008 00:49 Operator: dlm
Sample : 51410\E8-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:22 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Mon Sep 29 09:49:45 2008
Response via : Initial Calibration

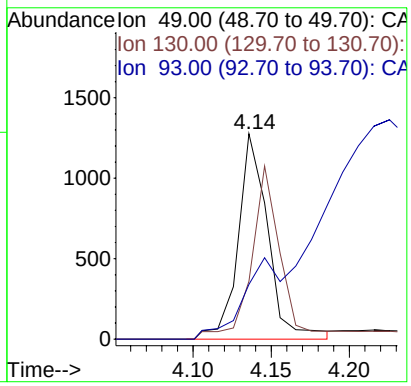


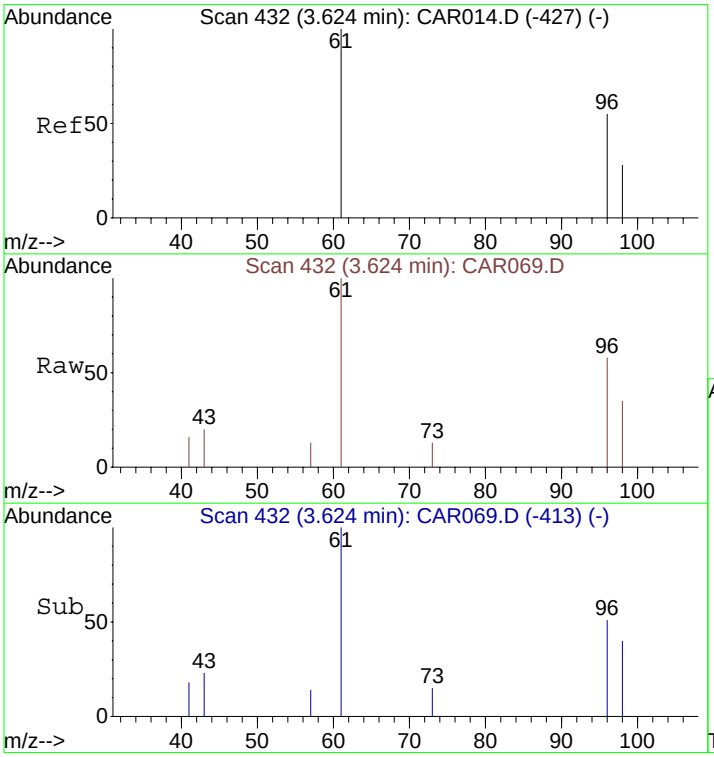


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR069.D
Acq: 17 Sep 2008 00:49

Tgt Ion: 49 Resp: 1545

Ion	Ratio	Lower	Upper
49	100		
130	83.6	65.1	97.7
93	0.0	33.8	50.6#

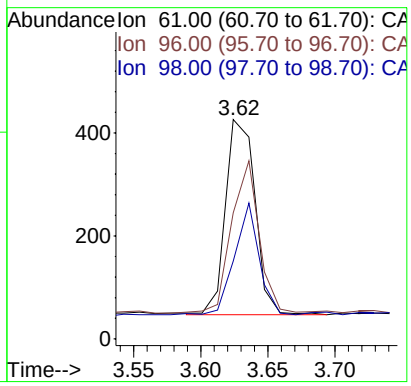


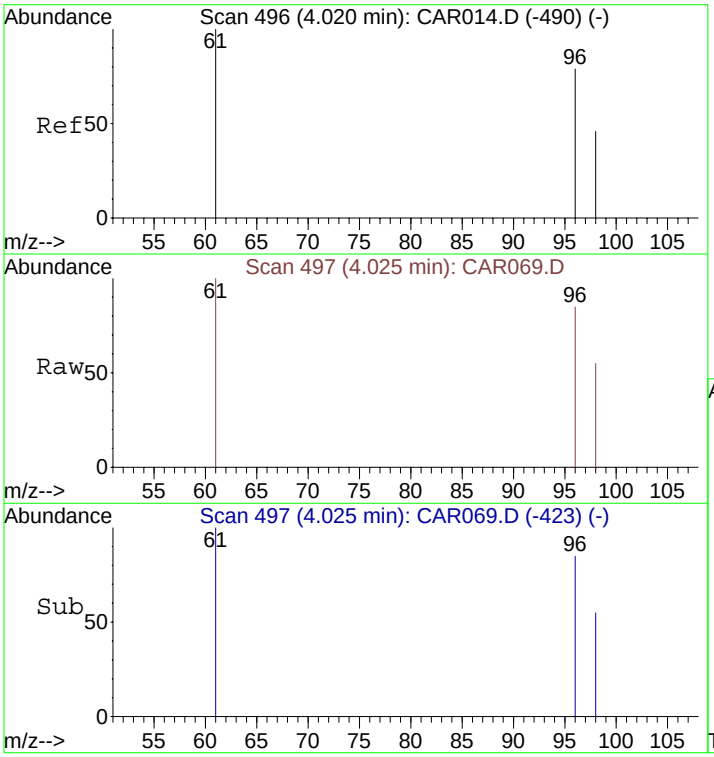


#5
trans-1,2-Dichloroethene
Concen: 44.76 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR069.D
Acq: 17 Sep 2008 00:49

Tgt Ion: 61 Resp: 581

Ion	Ratio	Lower	Upper
61	100		
96	70.9	55.0	82.4
98	47.0	35.6	53.4

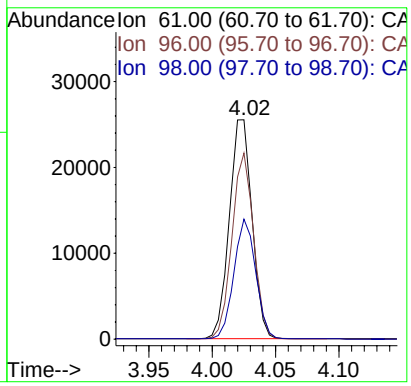


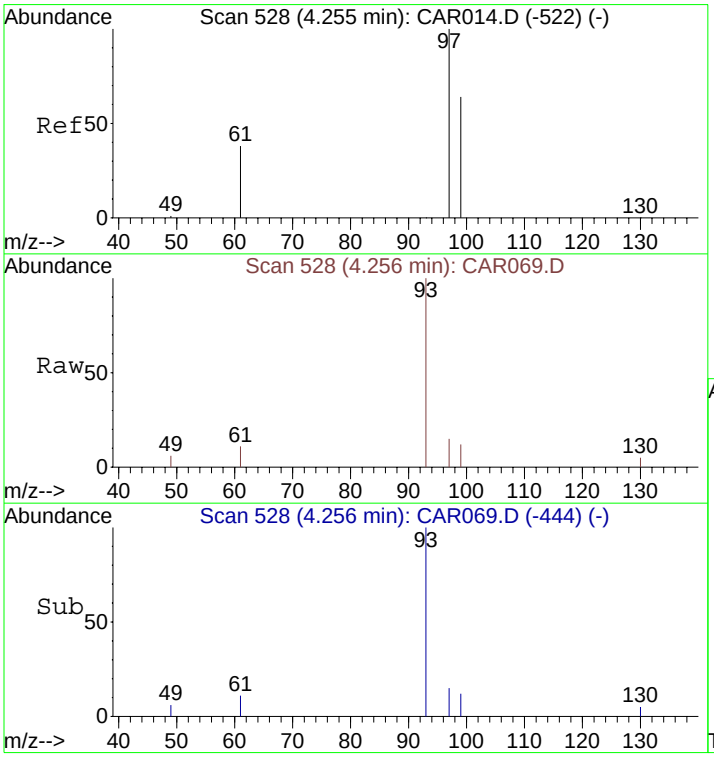


#7
cis-1,2-Dichloroethene
Concen: 2449.68 ppbv
RT: 4.02 min Scan# 497
Delta R.T. 0.01 min
Lab File: CAR069.D
Acq: 17 Sep 2008 00:49

Tgt Ion: 61 Resp: 31796

Ion	Ratio	Lower	Upper
61	100		
96	85.0	56.0	84.0#
98	55.5	36.2	54.4#

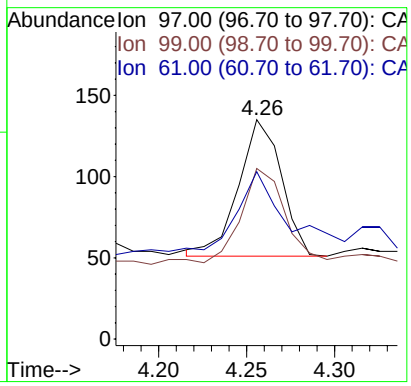


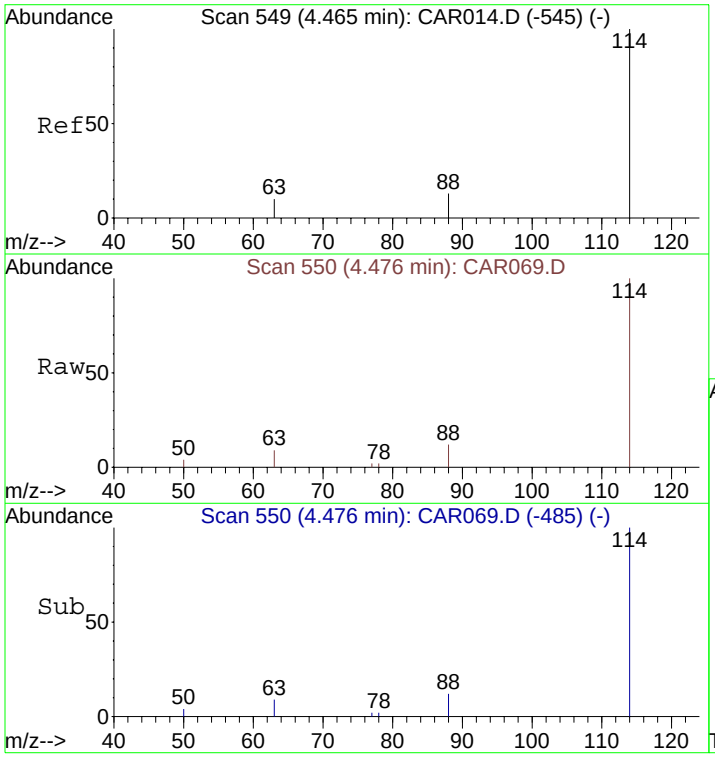


#8
1,1,1-Trichloroethane
Concen: 7.42 ppbv m
RT: 4.26 min Scan# 528
Delta R.T. 0.00 min
Lab File: CAR069.D
Acq: 17 Sep 2008 00:49

Tgt Ion: 97 Resp: 143

Ion	Ratio	Lower	Upper
97	100		
99	69.9	51.8	77.8
61	40.6	32.1	48.1

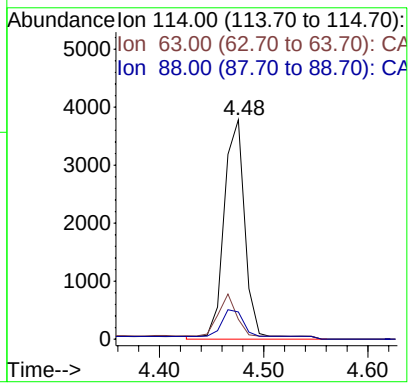


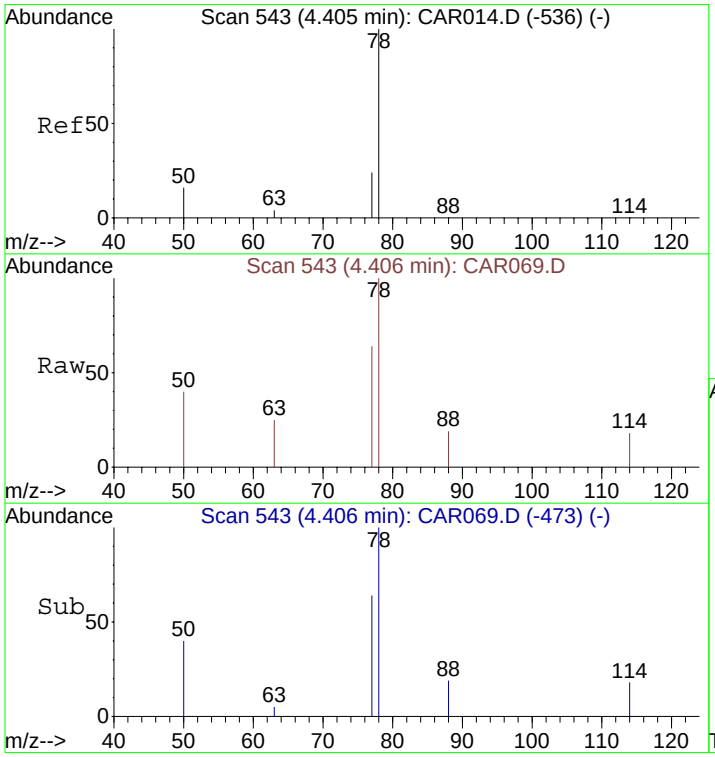


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR069.D
Acq: 17 Sep 2008 00:49

Tgt Ion:114 Resp: 5122

Ion	Ratio	Lower	Upper
114	100		
63	22.5	15.8	23.8
88	13.5	12.2	18.2

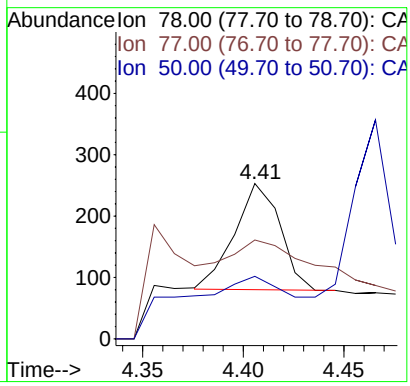


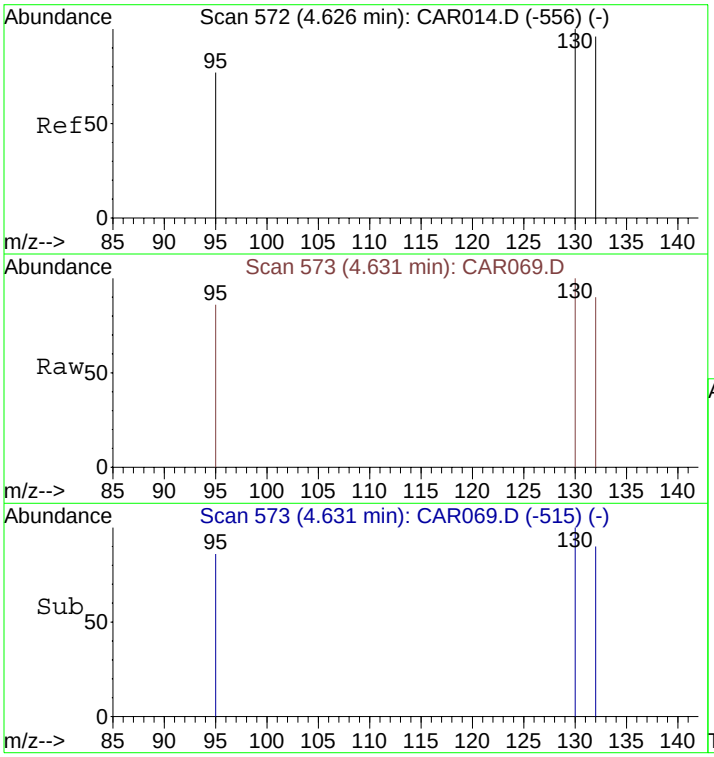


#10
Benzene
Concen: 8.76 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR069.D
Acq: 17 Sep 2008 00:49

Tgt Ion: 78 Resp: 273

Ion	Ratio	Lower	Upper
78	100		
77	22.3	18.6	28.0
50	15.0	16.2	24.4#

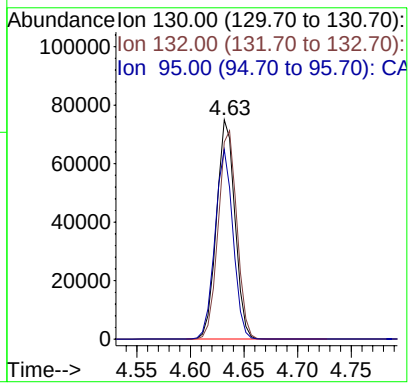


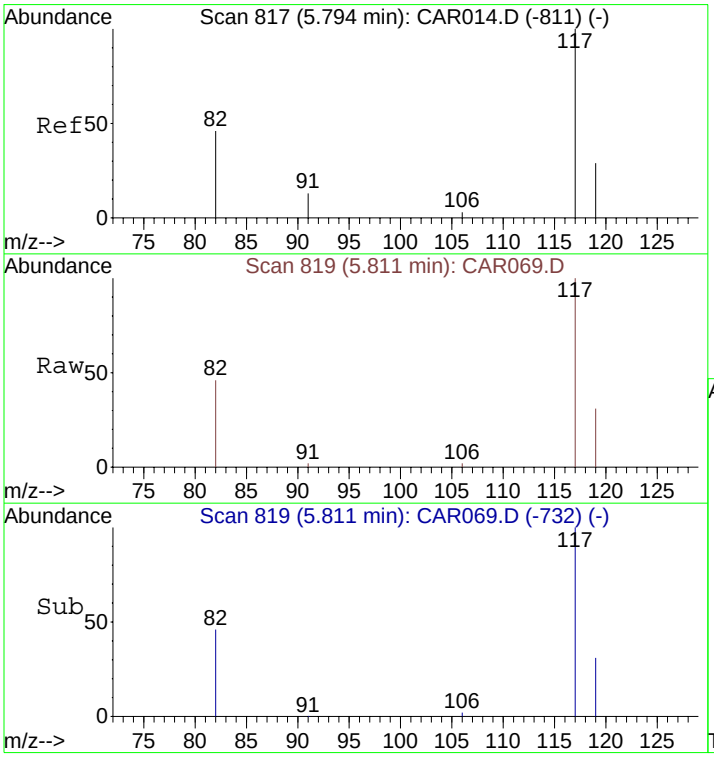


#11
Trichloroethene
Concen: 5899.43 ppbv
RT: 4.63 min Scan# 573
Delta R.T. 0.01 min
Lab File: CAR069.D
Acq: 17 Sep 2008 00:49

Tgt Ion:130 Resp: 89480

Ion	Ratio	Lower	Upper
130	100		
132	96.1	73.8	110.6
95	85.0	72.5	108.7

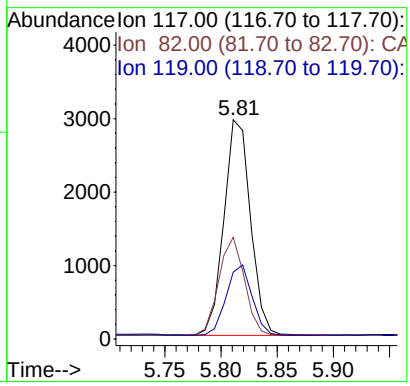


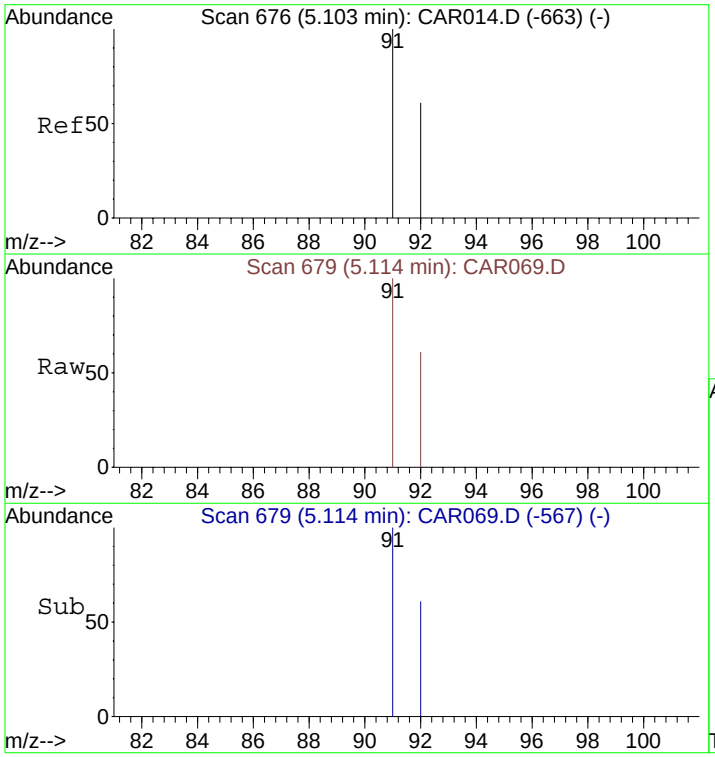


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.81 min Scan# 819
Delta R.T. 0.02 min
Lab File: CAR069.D
Acq: 17 Sep 2008 00:49

Tgt Ion:117 Resp: 4847

Ion	Ratio	Lower	Upper
117	100		
82	43.6	38.3	57.5
119	31.6	26.0	39.0

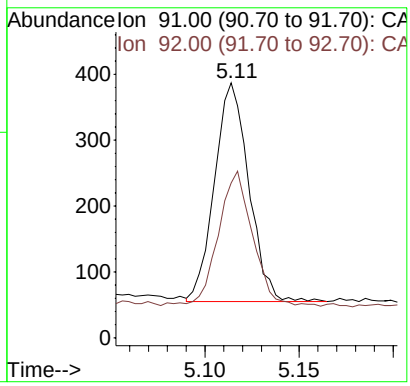


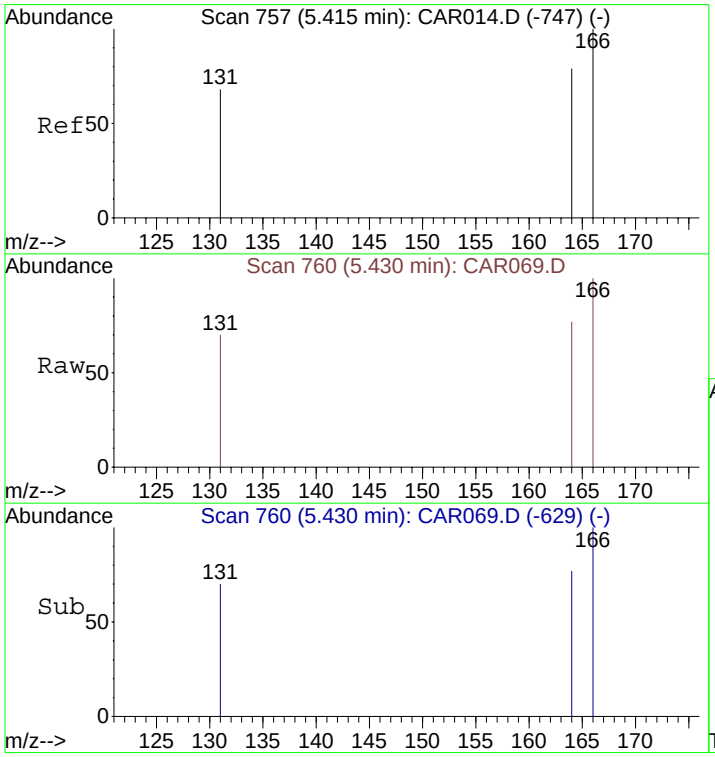


#13
Toluene
Concen: 14.34 ppbv
RT: 5.11 min Scan# 679
Delta R.T. 0.01 min
Lab File: CAR069.D
Acq: 17 Sep 2008 00:49

Tgt Ion: 91 Resp: 422

Ion	Ratio	Lower	Upper
91	100		
92	61.1	48.2	72.2

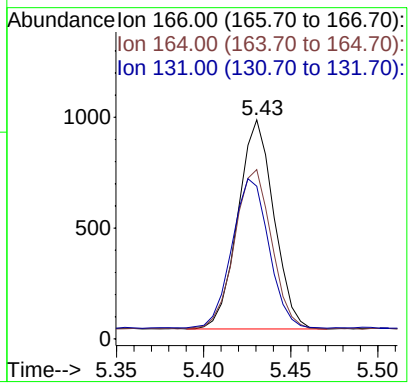




#14
Tetrachloroethene
Concen: 76.76 ppbv
RT: 5.43 min Scan# 760
Delta R.T. 0.02 min
Lab File: CAR069.D
Acq: 17 Sep 2008 00:49

Tgt Ion:166 Resp: 1359

Ion	Ratio	Lower	Upper
166	100		
164	78.4	63.1	94.7
131	73.1	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR071.D Vial: 1
Acq On : 17 Sep 2008 1:13 Operator: dlm
Sample : 51406\E10-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 01:21:07 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.15	49	1542	10.00 ppbv	0.01
9) 1,4-Difluorobenzene	4.48	114	4845	10.00 ppbv	0.01
12) Chlorobenzene-d5	5.83	117	4606	10.00 ppbv	0.04

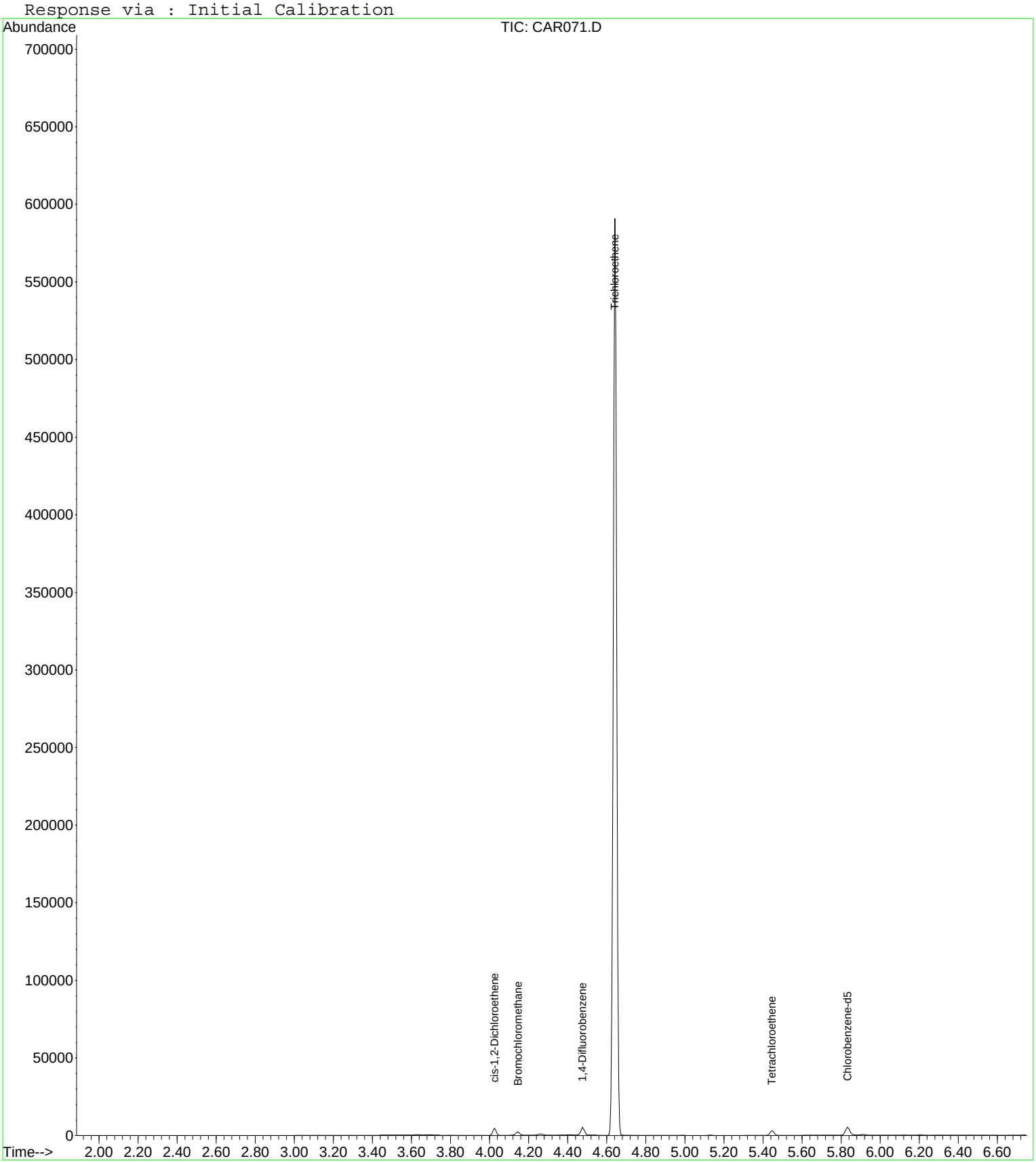
Target Compounds					Qvalue
5) trans-1,2-Dichloroethene	3.62	61	135m	10.42 ppbv	
7) cis-1,2-Dichloroethene	4.02	61	2410	186.04 ppbv	89
8) 1,1,1-Trichloroethane	4.27	97	673m	34.97 ppbv	
10) Benzene	4.42	78	277m	9.40 ppbv	
11) Trichloroethene	4.64	130	268400	18707.37 ppbv	95
13) Toluene	5.13	91	187	6.68 ppbv	94
14) Tetrachloroethene	5.45	166	1781	105.86 ppbv	96
15) Ethylbenzene	5.87	91	243	7.50 ppbv #	82
16) m&p-Xylenes	5.91	91	612	26.79 ppbv	99
17) o-Xylene	6.20	91	239	9.14 ppbv	95

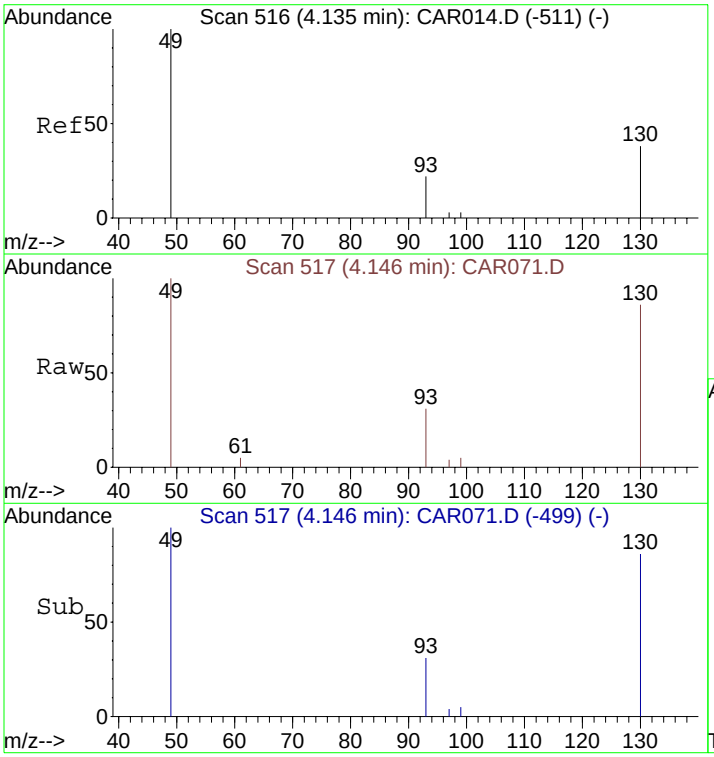
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR071.D Vial: 1
Acq On : 17 Sep 2008 1:13 Operator: dlm
Sample : 51406\E10-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 29 16:26 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Mon Sep 29 09:49:45 2008
Response via : Initial Calibration

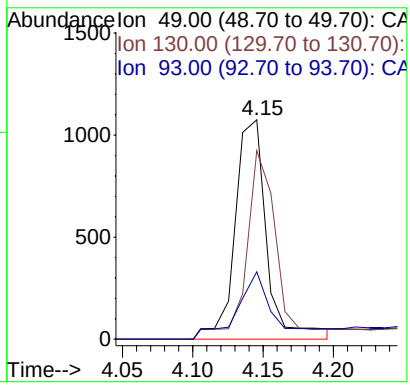


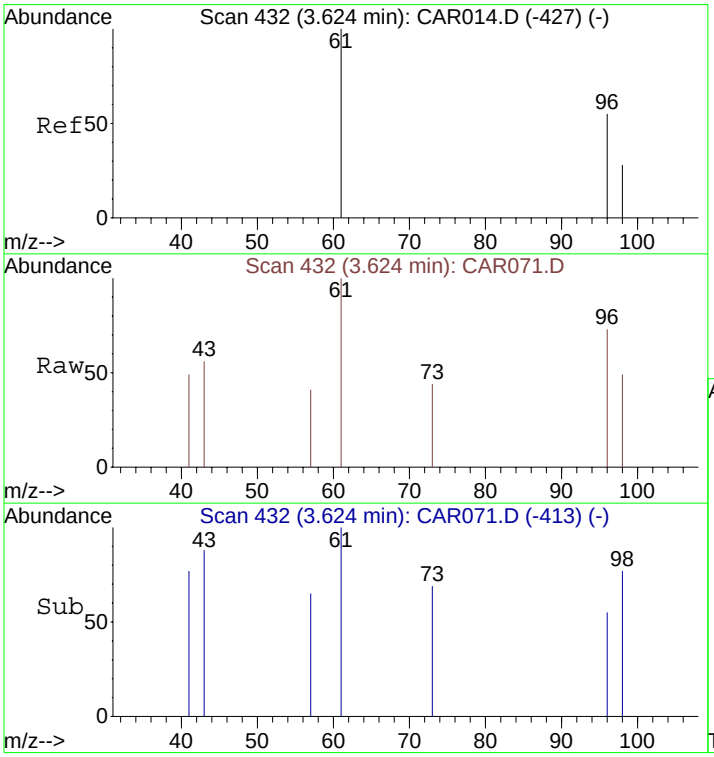


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.15 min Scan# 517
Delta R.T. 0.01 min
Lab File: CAR071.D
Acq: 17 Sep 2008 1:13

Tgt Ion: 49 Resp: 1542

Ion	Ratio	Lower	Upper
49	100		
130	78.8	65.1	97.7
93	36.5	33.8	50.6

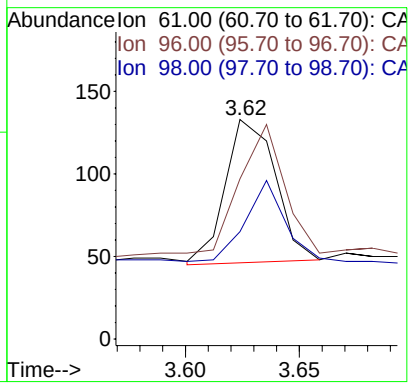


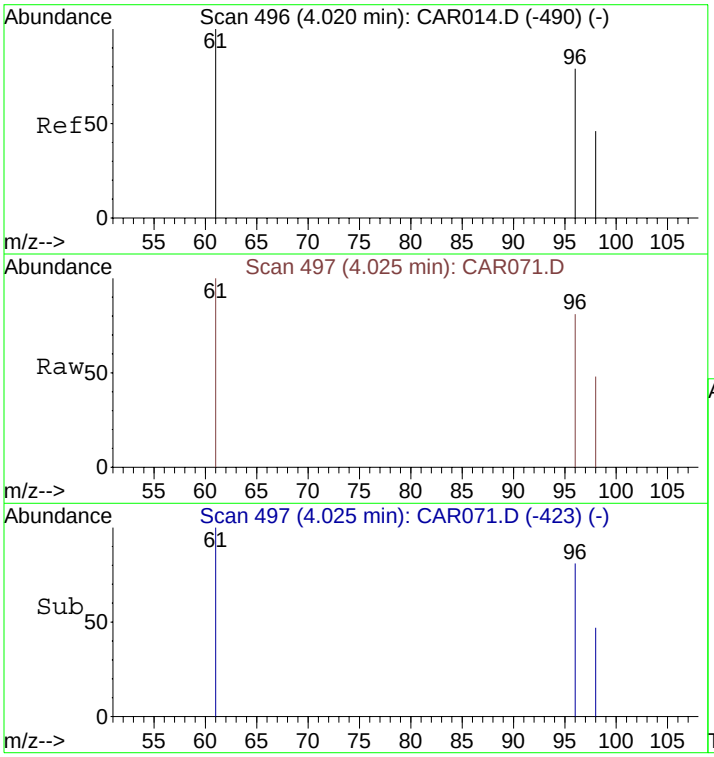


#5
trans-1,2-Dichloroethene
Concen: 10.42 ppbv m
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR071.D
Acq: 17 Sep 2008 1:13

Tgt Ion: 61 Resp: 135

Ion	Ratio	Lower	Upper
61	100		
96	78.5	55.0	82.4
98	47.4	35.6	53.4

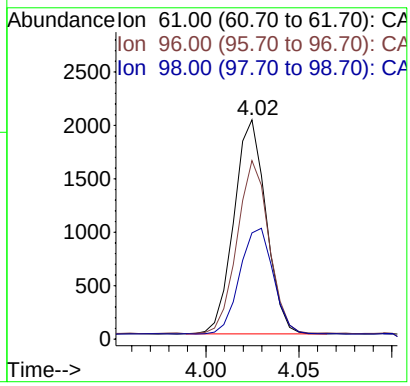


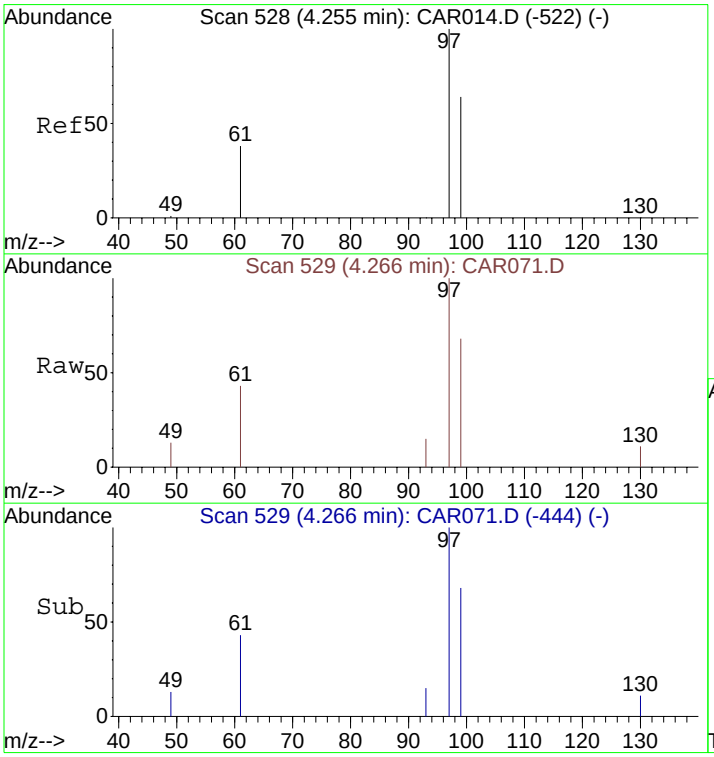


#7
cis-1,2-Dichloroethene
Concen: 186.04 ppbv
RT: 4.02 min Scan# 497
Delta R.T. 0.01 min
Lab File: CAR071.D
Acq: 17 Sep 2008 1:13

Tgt Ion: 61 Resp: 2410

Ion	Ratio	Lower	Upper
61	100		
96	80.5	56.0	84.0
98	51.6	36.2	54.4

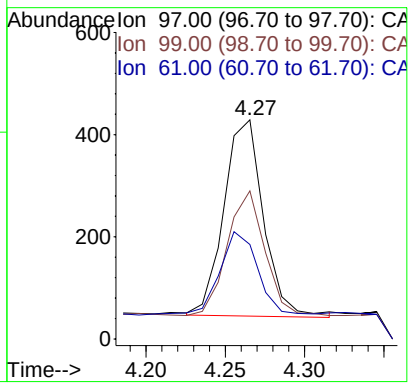


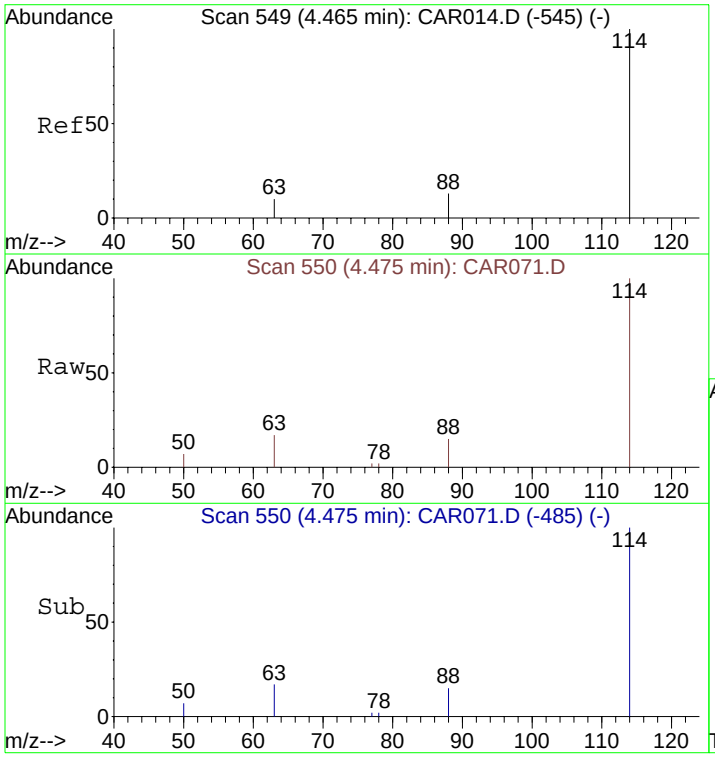


#8
1,1,1-Trichloroethane
Concen: 34.97 ppbv m
RT: 4.27 min Scan# 529
Delta R.T. 0.01 min
Lab File: CAR071.D
Acq: 17 Sep 2008 1:13

Tgt Ion: 97 Resp: 673

Ion	Ratio	Lower	Upper
97	100		
99	58.7	51.8	77.8
61	38.5	32.1	48.1

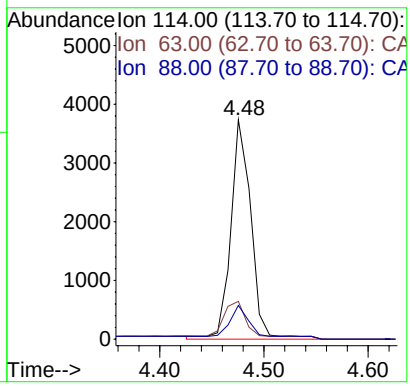


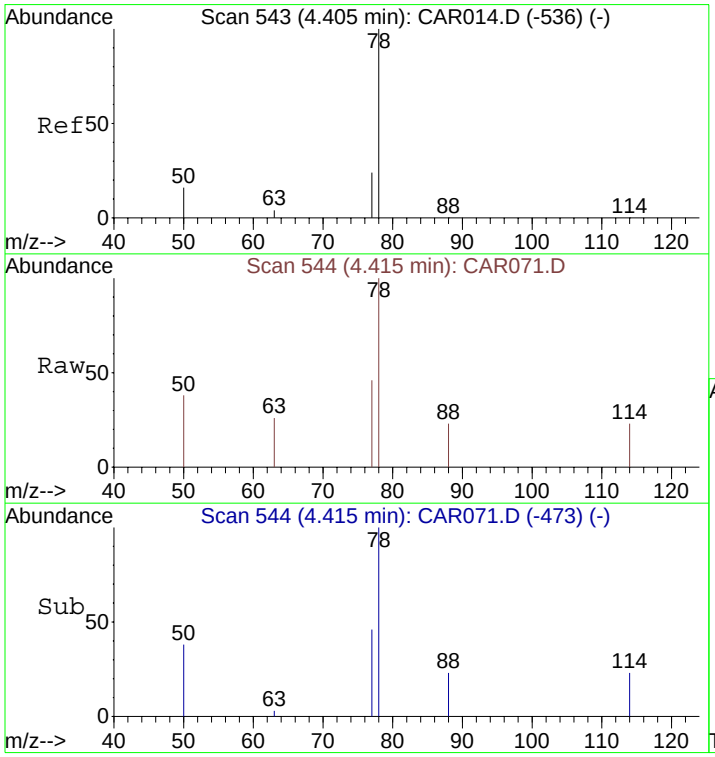


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR071.D
Acq: 17 Sep 2008 1:13

Tgt Ion:114 Resp: 4845

Ion	Ratio	Lower	Upper
114	100		
63	22.8	15.8	23.8
88	13.5	12.2	18.2

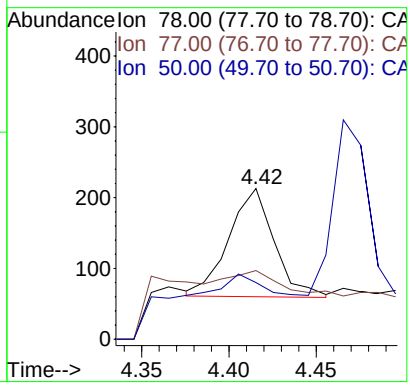


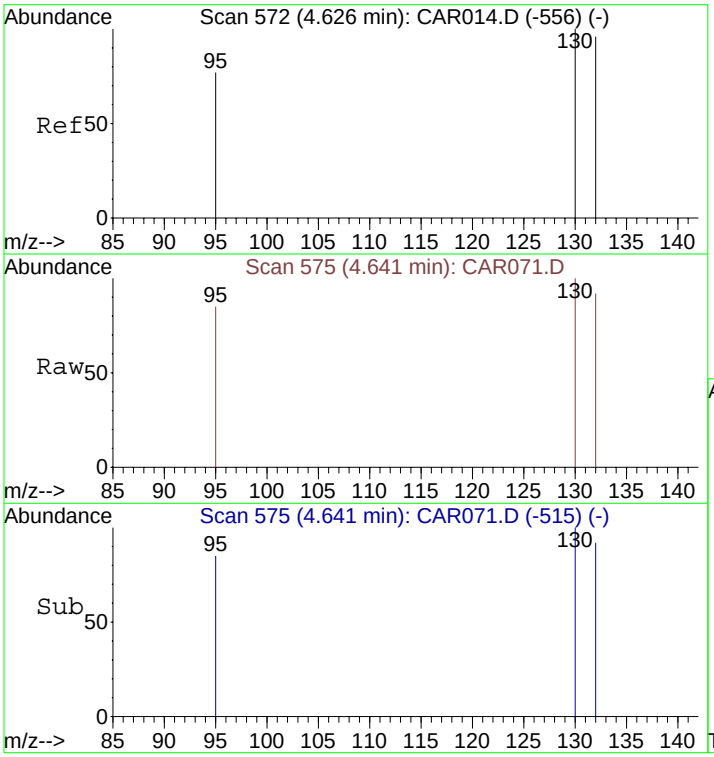


#10
Benzene
Concen: 9.40 ppbv m
RT: 4.42 min Scan# 544
Delta R.T. 0.01 min
Lab File: CAR071.D
Acq: 17 Sep 2008 1:13

Tgt Ion: 78 Resp: 277

Ion	Ratio	Lower	Upper
78	100		
77	18.1	18.6	28.0#
50	15.5	16.2	24.4#

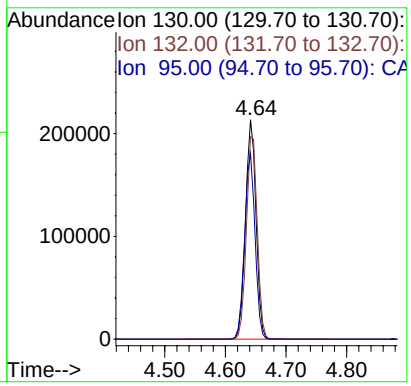


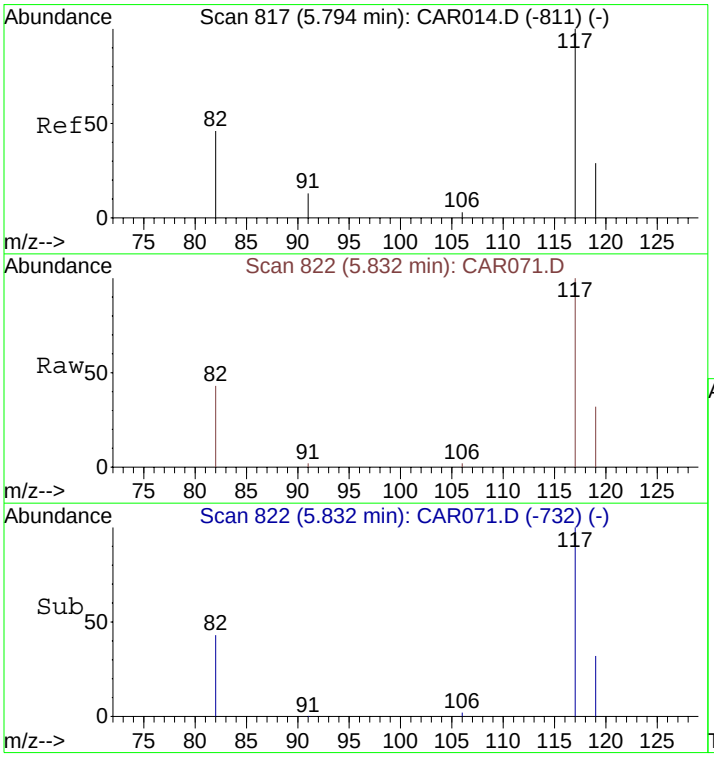


#11
Trichloroethene
Concen: 18707.37 ppbv
RT: 4.64 min Scan# 575
Delta R.T. 0.02 min
Lab File: CAR071.D
Acq: 17 Sep 2008 1:13

Tgt Ion:130 Resp: 268400

Ion	Ratio	Lower	Upper
130	100		
132	91.7	73.8	110.6
95	80.9	72.5	108.7

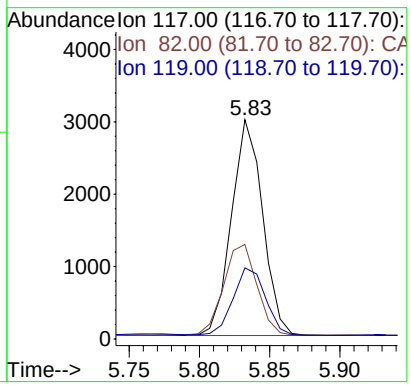


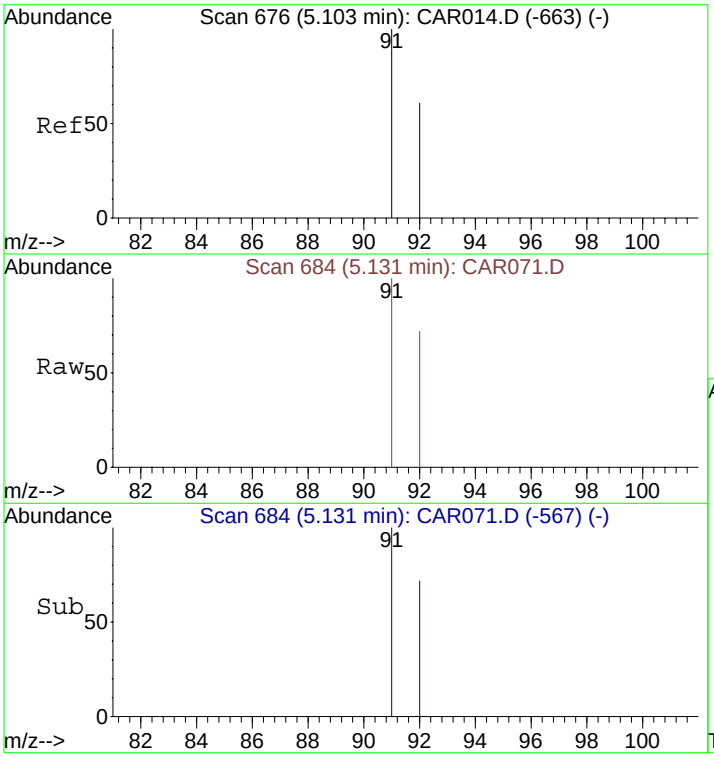


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.83 min Scan# 822
Delta R.T. 0.04 min
Lab File: CAR071.D
Acq: 17 Sep 2008 1:13

Tgt Ion:117 Resp: 4606

Ion	Ratio	Lower	Upper
117	100		
82	45.2	38.3	57.5
119	32.5	26.0	39.0

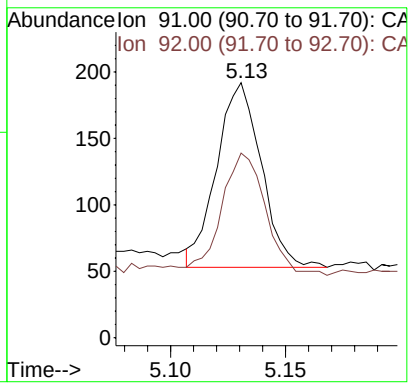


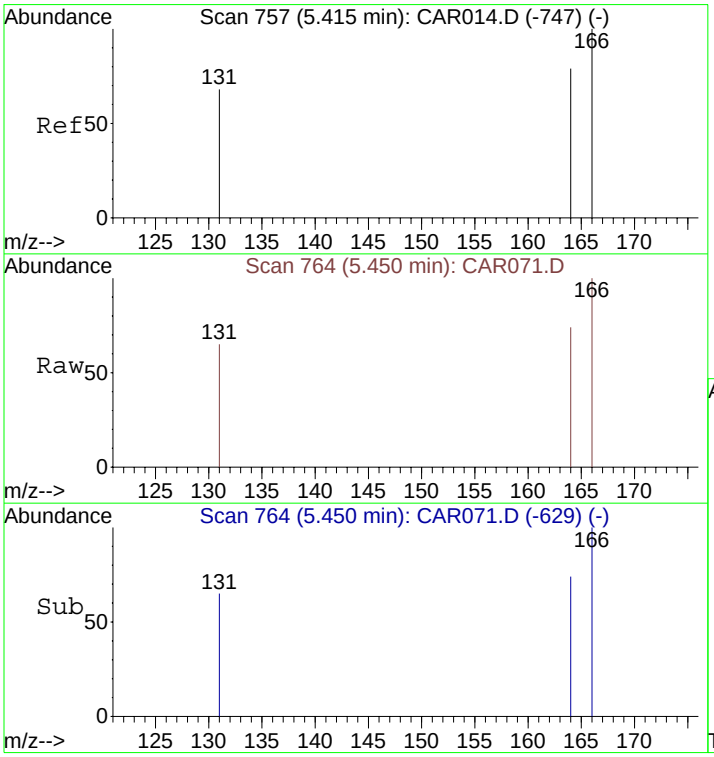


#13
Toluene
Concen: 6.68 ppbv
RT: 5.13 min Scan# 684
Delta R.T. 0.03 min
Lab File: CAR071.D
Acq: 17 Sep 2008 1:13

Tgt Ion: 91 Resp: 187

Ion	Ratio	Lower	Upper
91	100		
92	64.7	48.2	72.2

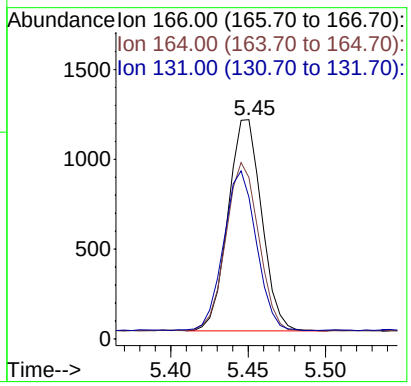


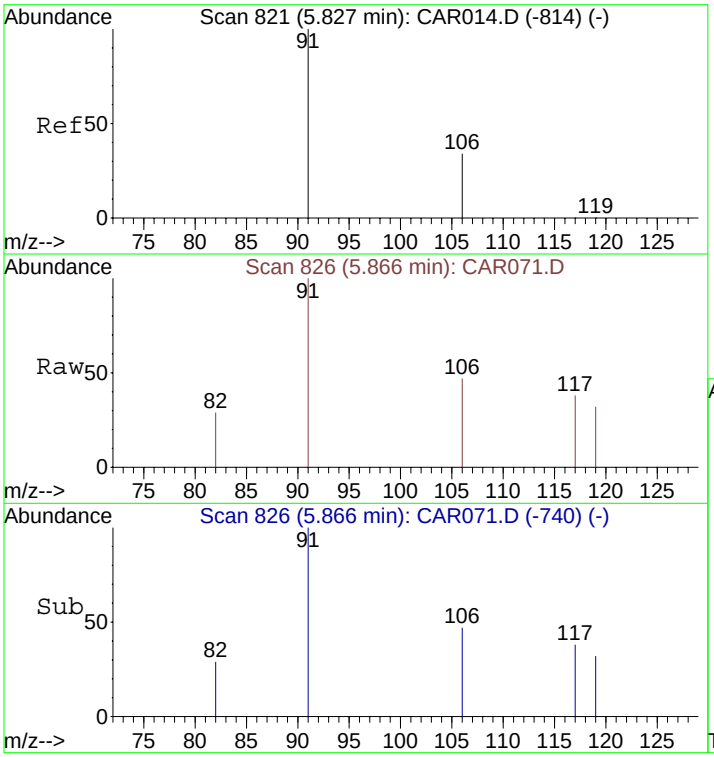


#14
Tetrachloroethene
Concen: 105.86 ppbv
RT: 5.45 min Scan# 764
Delta R.T. 0.04 min
Lab File: CAR071.D
Acq: 17 Sep 2008 1:13

Tgt Ion:166 Resp: 1781

Ion	Ratio	Lower	Upper
166	100		
164	77.8	63.1	94.7
131	73.0	62.9	94.3

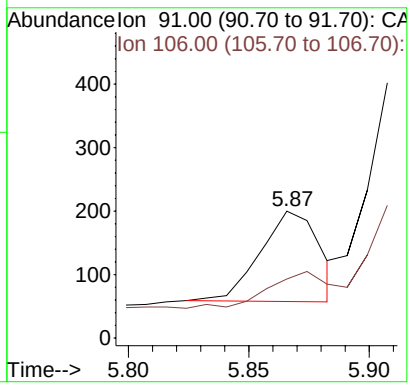


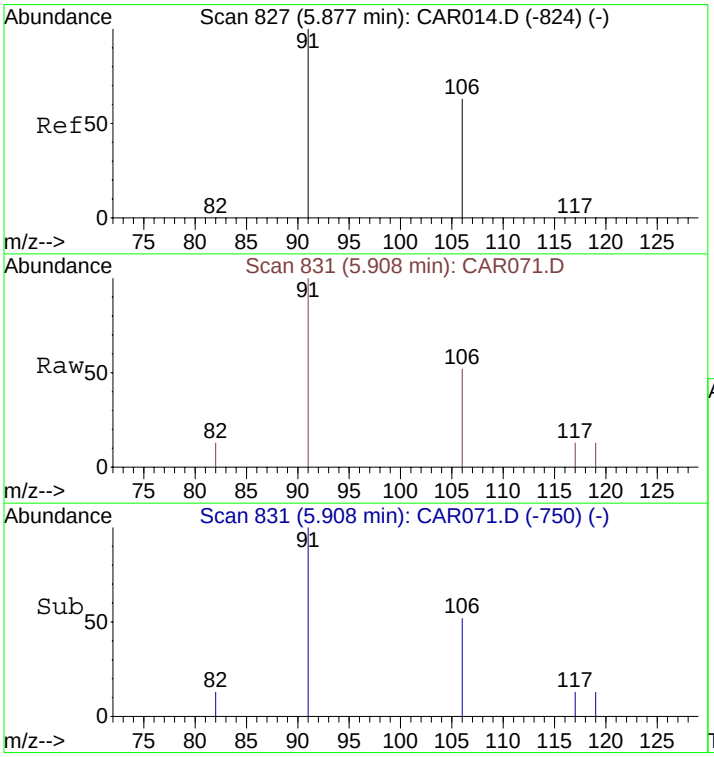


#15
Ethylbenzene
Concen: 7.50 ppbv
RT: 5.87 min Scan# 826
Delta R.T. 0.04 min
Lab File: CAR071.D
Acq: 17 Sep 2008 1:13

Tgt Ion: 91 Resp: 243

Ion	Ratio	Lower	Upper
91	100		
106	42.8	26.3	39.5#

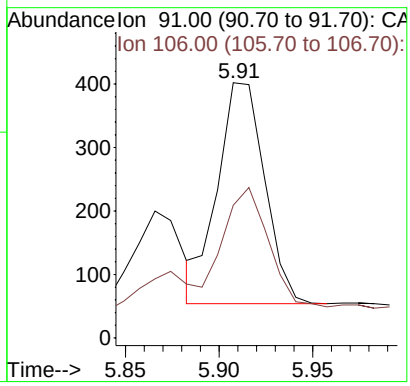


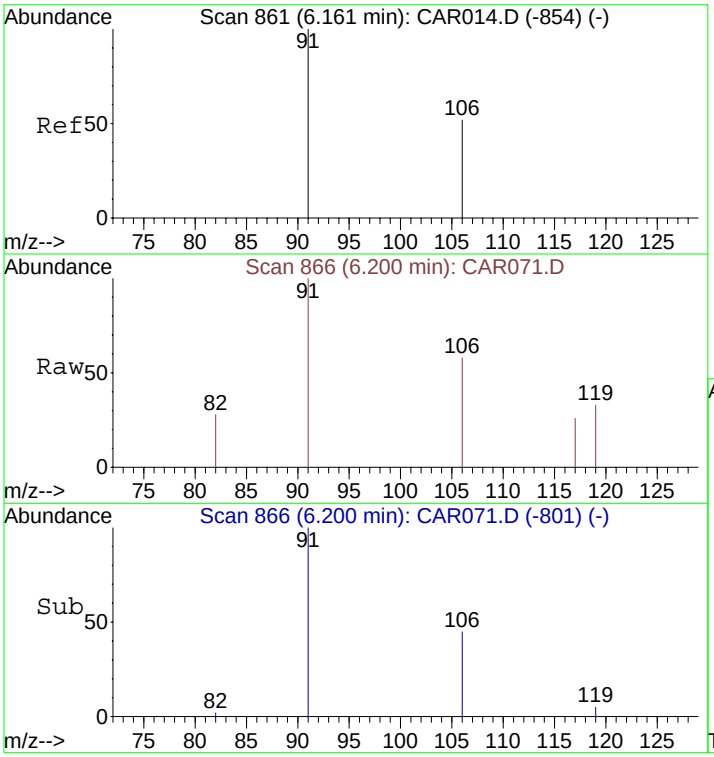


#16
m&p-Xylenes
Concen: 26.79 ppbv
RT: 5.91 min Scan# 831
Delta R.T. 0.03 min
Lab File: CAR071.D
Acq: 17 Sep 2008 1:13

Tgt Ion: 91 Resp: 612

Ion	Ratio	Lower	Upper
91	100		
106	52.8	41.8	62.8

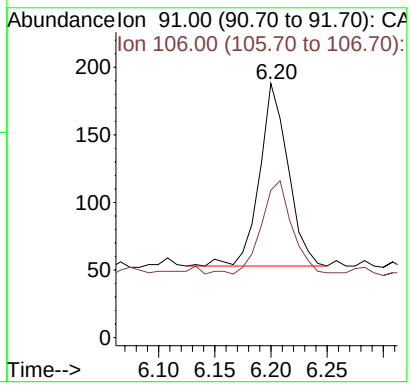




#17
o-Xylene
Concen: 9.14 ppbv
RT: 6.20 min Scan# 866
Delta R.T. 0.04 min
Lab File: CAR071.D
Acq: 17 Sep 2008 1:13

Tgt Ion: 91 Resp: 239

Ion	Ratio	Lower	Upper
91	100		
106	52.3	38.9	58.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR072.D Vial: 1
Acq On : 17 Sep 2008 1:30 Operator: dlm
Sample : 51403\E11-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 01:38:03 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1384	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	4552	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.79	117	4359	10.00 ppbv	0.00

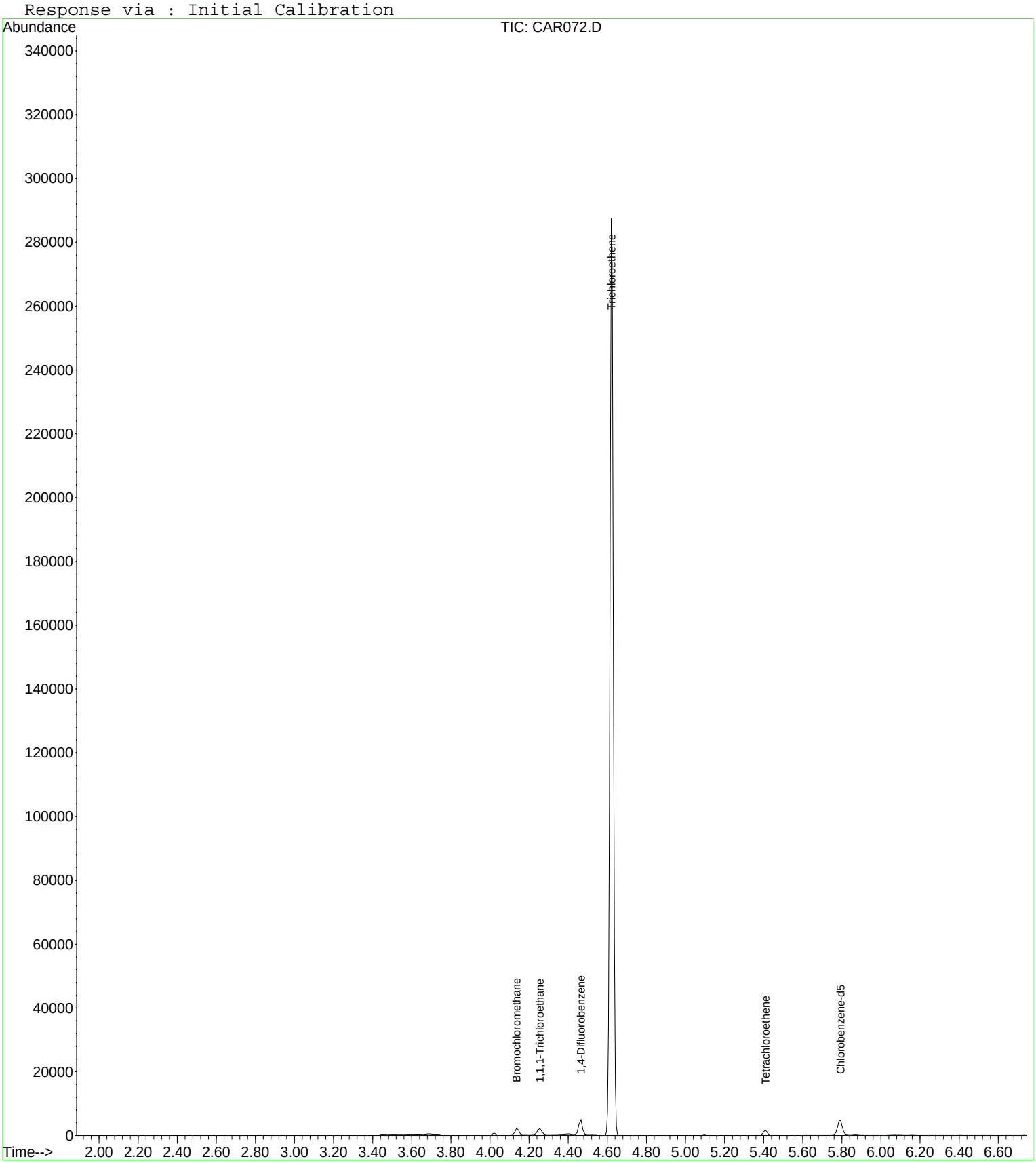
Target Compounds					Qvalue
7) cis-1,2-Dichloroethene	4.02	61	309	26.58 ppbv	87
8) 1,1,1-Trichloroethane	4.26	97	1472	85.21 ppbv	98
10) Benzene	4.40	78	277m	10.01 ppbv	
11) Trichloroethene	4.62	130	123196	9139.41 ppbv	98
13) Toluene	5.10	91	267	10.09 ppbv	95
14) Tetrachloroethene	5.41	166	872	54.77 ppbv	95

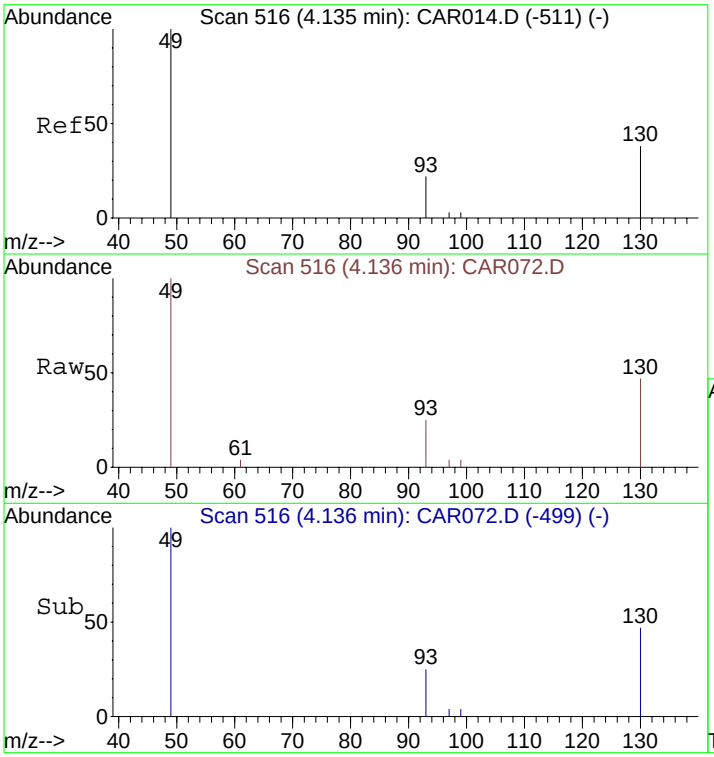
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR072.D Vial: 1
Acq On : 17 Sep 2008 1:30 Operator: dlm
Sample : 51403\E11-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:33 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Mon Sep 29 09:49:45 2008
Response via : Initial Calibration

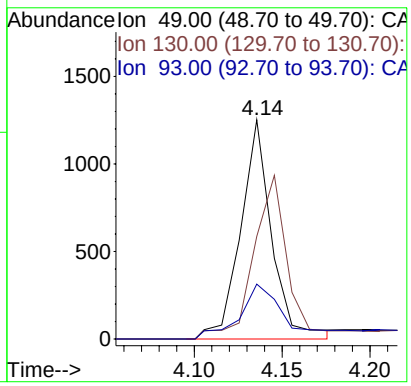


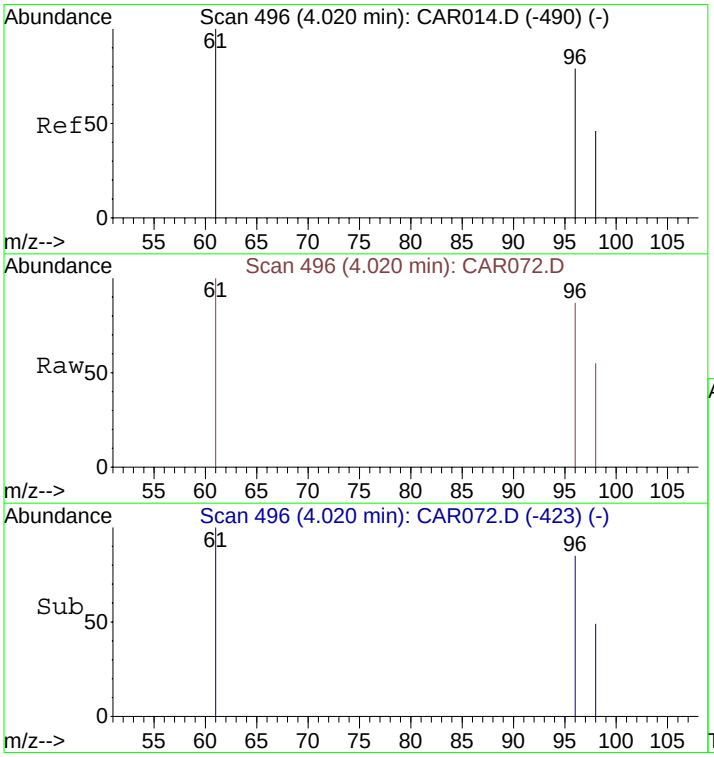


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR072.D
Acq: 17 Sep 2008 1:30

Tgt Ion: 49 Resp: 1384

Ion	Ratio	Lower	Upper
49	100		
130	83.1	65.1	97.7
93	40.0	33.8	50.6

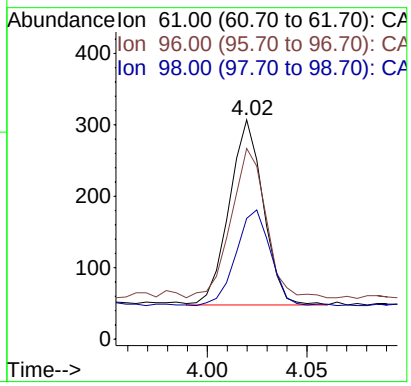


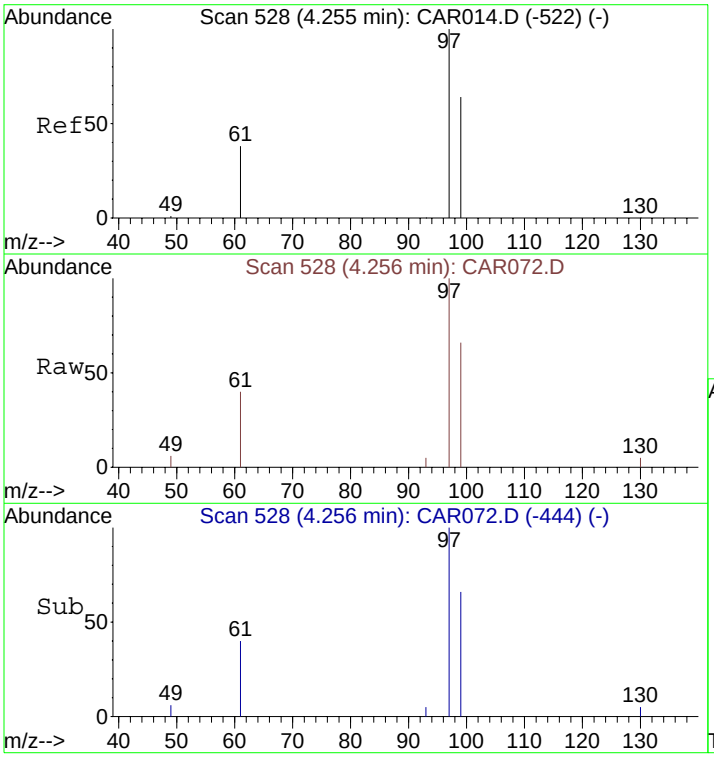


#7
cis-1,2-Dichloroethene
Concen: 26.58 ppbv
RT: 4.02 min Scan# 496
Delta R.T. 0.00 min
Lab File: CAR072.D
Acq: 17 Sep 2008 1:30

Tgt Ion: 61 Resp: 309

Ion	Ratio	Lower	Upper
61	100		
96	81.2	56.0	84.0
98	52.8	36.2	54.4

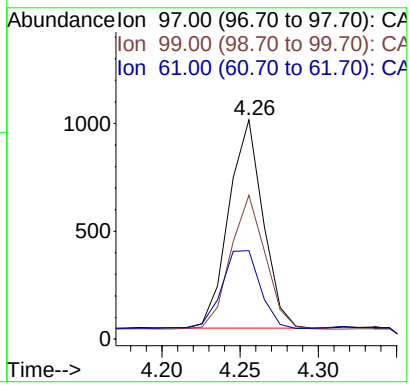


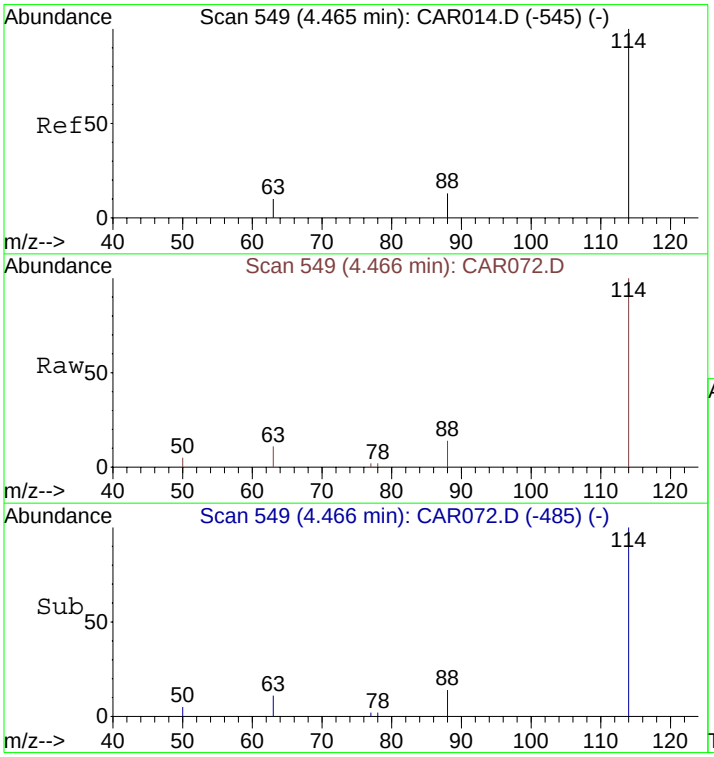


#8
1,1,1-Trichloroethane
Concen: 85.21 ppbv
RT: 4.26 min Scan# 528
Delta R.T. 0.00 min
Lab File: CAR072.D
Acq: 17 Sep 2008 1:30

Tgt Ion: 97 Resp: 1472

Ion	Ratio	Lower	Upper
97	100		
99	65.6	51.8	77.8
61	41.7	32.1	48.1

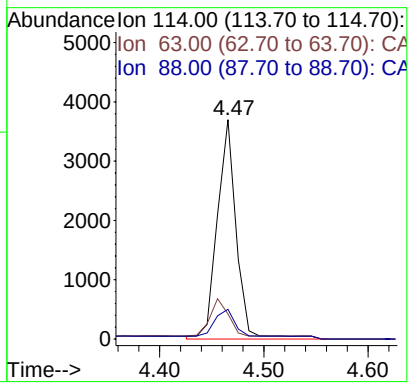


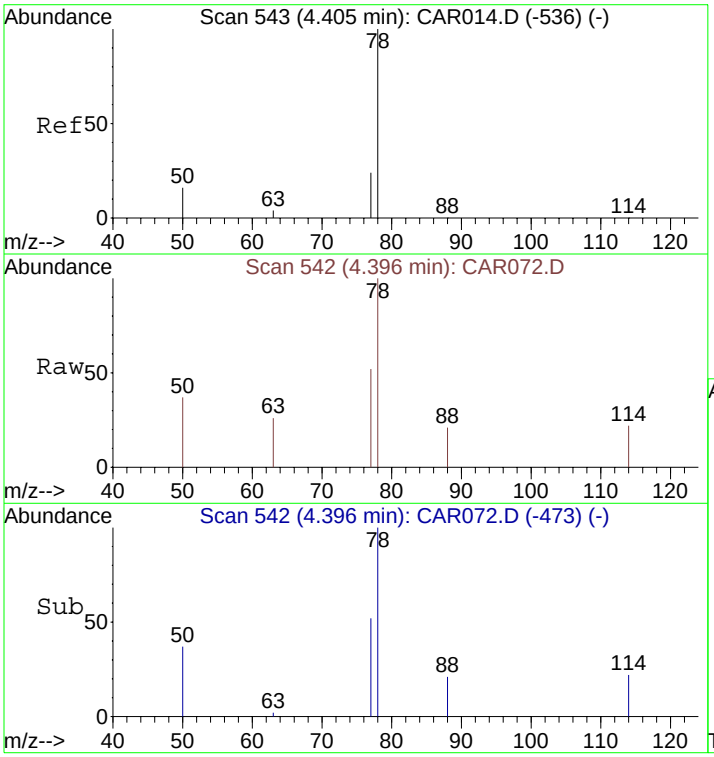


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. 0.00 min
Lab File: CAR072.D
Acq: 17 Sep 2008 1:30

Tgt Ion:114 Resp: 4552

Ion	Ratio	Lower	Upper
114	100		
63	19.2	15.8	23.8
88	20.5	12.2	18.2#

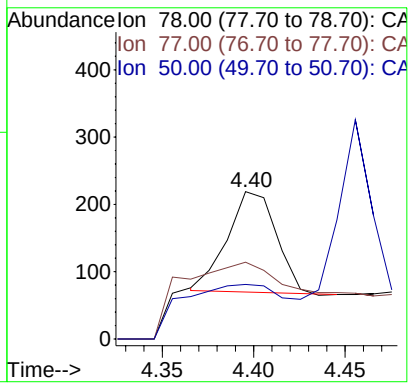


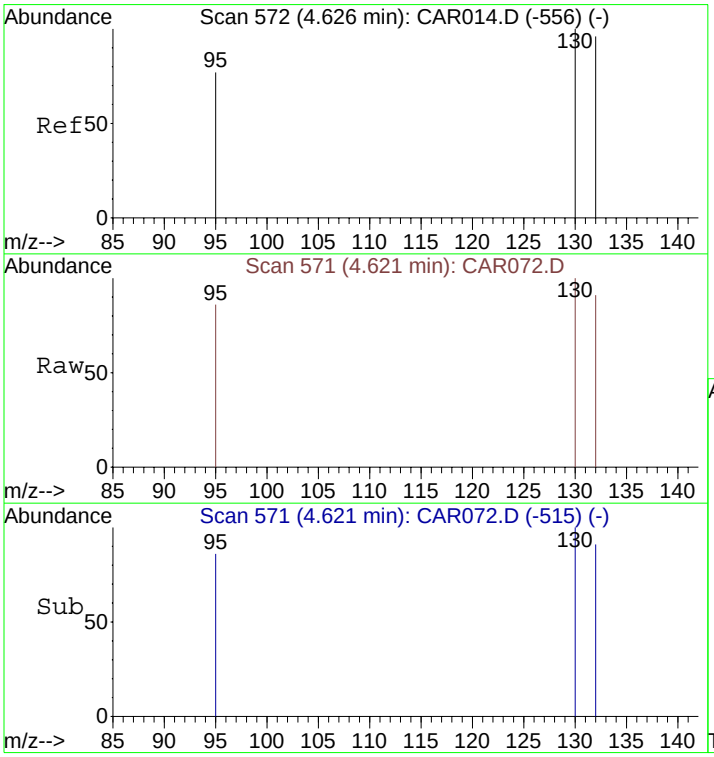


#10
Benzene
Concen: 10.01 ppbv m
RT: 4.40 min Scan# 542
Delta R.T. -0.01 min
Lab File: CAR072.D
Acq: 17 Sep 2008 1:30

Tgt Ion: 78 Resp: 277

Ion	Ratio	Lower	Upper
78	100		
77	22.7	18.6	28.0
50	17.7	16.2	24.4

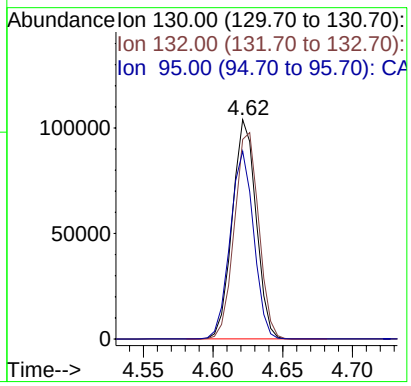


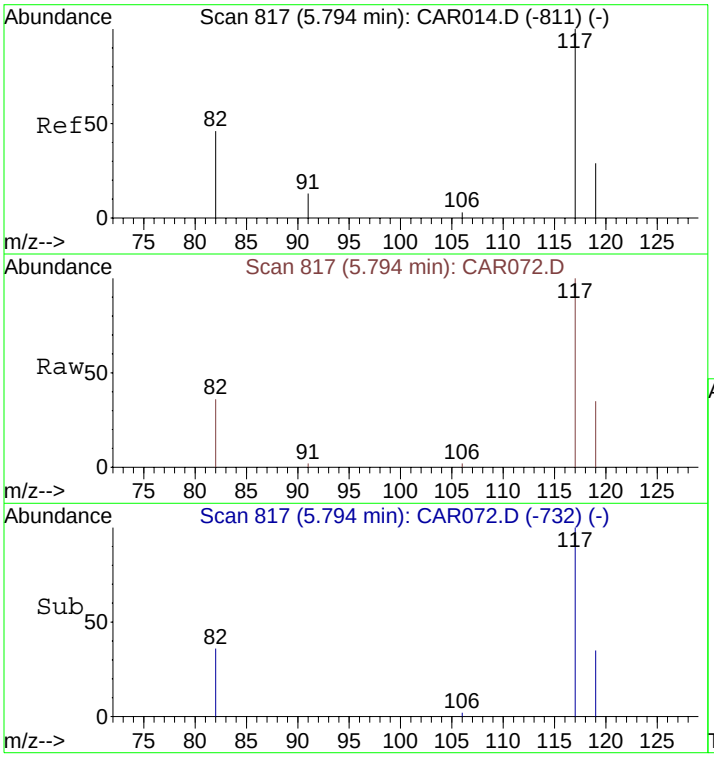


#11
Trichloroethene
Concen: 9139.41 ppbv
RT: 4.62 min Scan# 571
Delta R.T. -0.00 min
Lab File: CAR072.D
Acq: 17 Sep 2008 1:30

Tgt Ion:130 Resp: 123196

Ion	Ratio	Lower	Upper
130	100		
132	96.2	73.8	110.6
95	90.2	72.5	108.7

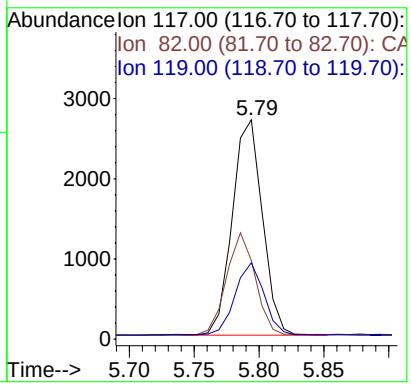


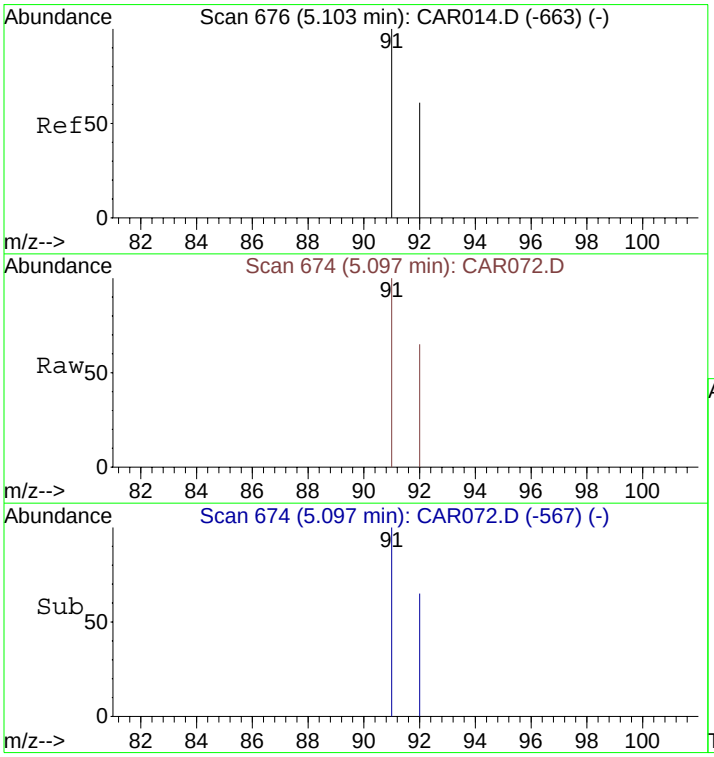


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.79 min Scan# 817
Delta R.T. 0.00 min
Lab File: CAR072.D
Acq: 17 Sep 2008 1:30

Tgt Ion:117 Resp: 4359

Ion	Ratio	Lower	Upper
117	100		
82	45.2	38.3	57.5
119	32.0	26.0	39.0

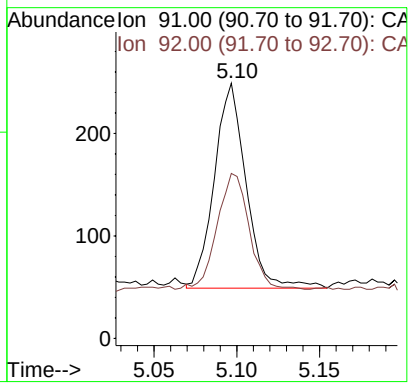


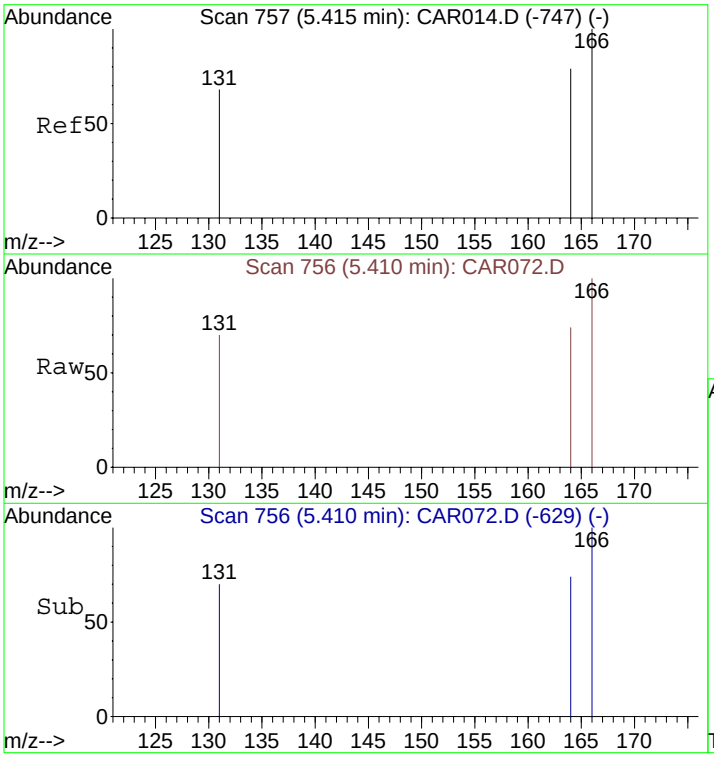


#13
Toluene
Concen: 10.09 ppbv
RT: 5.10 min Scan# 674
Delta R.T. -0.01 min
Lab File: CAR072.D
Acq: 17 Sep 2008 1:30

Tgt Ion: 91 Resp: 267

Ion	Ratio	Lower	Upper
91	100		
92	56.2	48.2	72.2

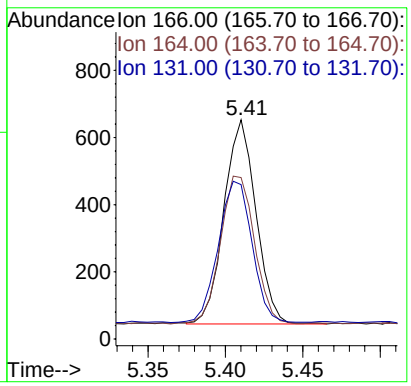




#14
Tetrachloroethene
Concen: 54.77 ppbv
RT: 5.41 min Scan# 756
Delta R.T. -0.00 min
Lab File: CAR072.D
Acq: 17 Sep 2008 1:30

Tgt Ion:166 Resp: 872

Ion	Ratio	Lower	Upper
166	100		
164	76.4	63.1	94.7
131	72.4	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR073.D Vial: 1
Acq On : 17 Sep 2008 1:41 Operator: dlm
Sample : 51402\E12-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 01:48:10 2008 Quant Results File: LOOP20080915.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 16 15:41:37 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1508	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	4761	10.00 ppbv	0.02
12) Chlorobenzene-d5	5.84	117	4567	10.00 ppbv	0.04

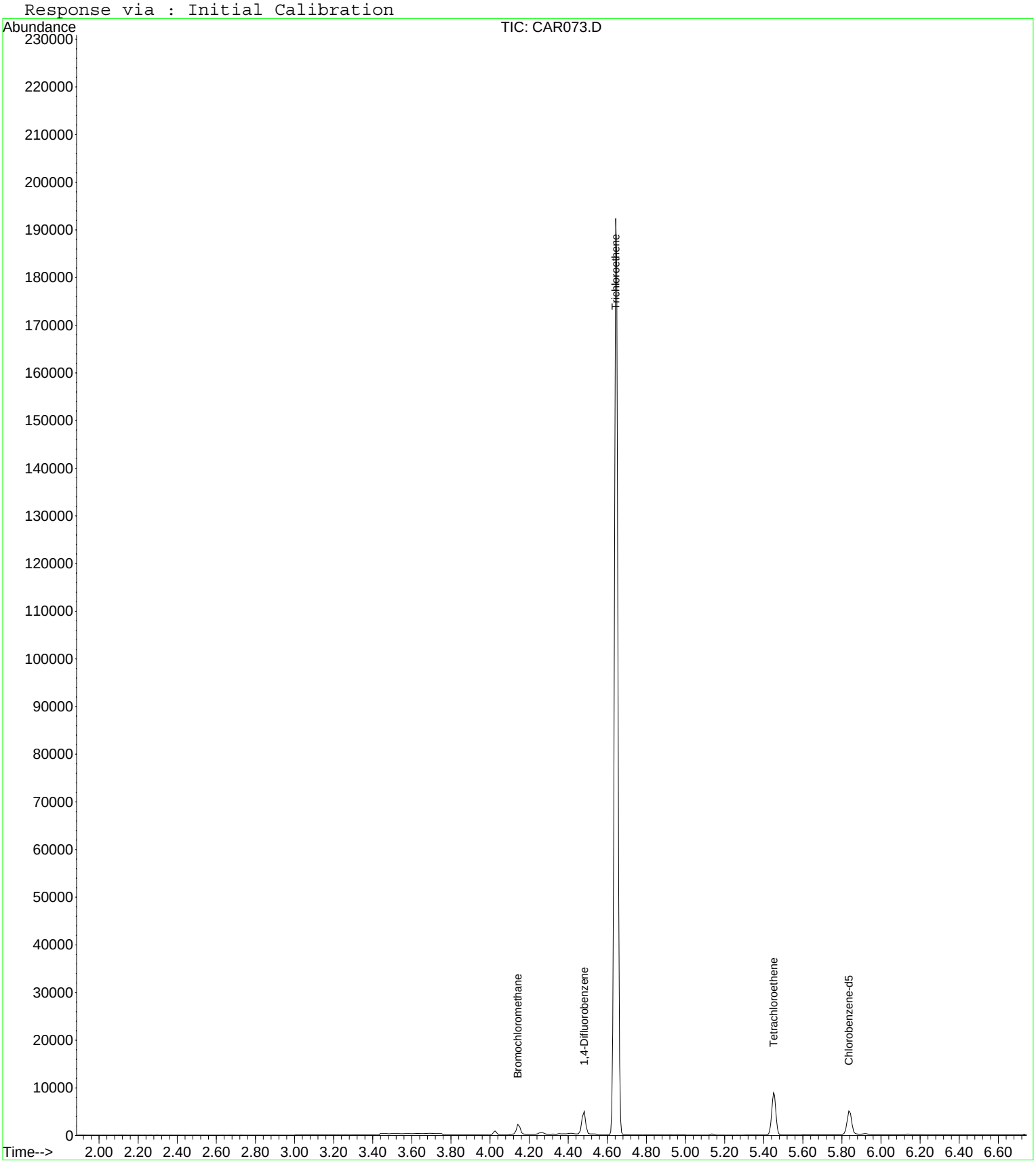
Target Compounds					Qvalue
7) cis-1,2-Dichloroethene	4.02	61	428	33.78 ppbv #	78
8) 1,1,1-Trichloroethane	4.26	97	298	15.83 ppbv #	92
10) Benzene	4.41	78	196m	6.77 ppbv	
11) Trichloroethene	4.64	130	85659	6075.73 ppbv	95
13) Toluene	5.13	91	191	6.89 ppbv	98
14) Tetrachloroethene	5.46	166	5227	313.34 ppbv	96

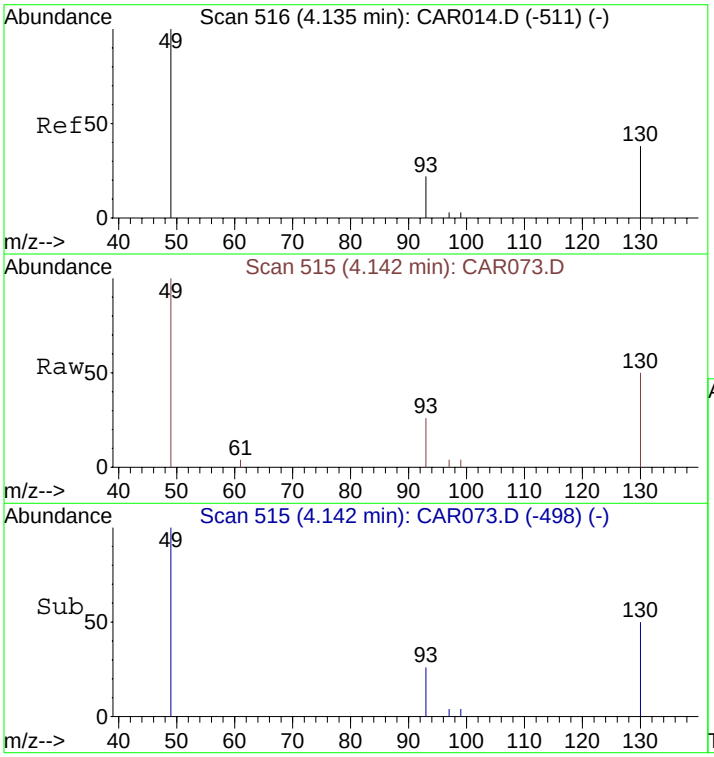
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080916\CAR073.D Vial: 1
Acq On : 17 Sep 2008 1:41 Operator: dlm
Sample : 51402\E12-SG Inst : Instrumen
Misc : 0.5 ml\16 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:33 2008 Quant Results File: LOOP20080915.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080915.M (RTE Integrator)
Title : VOC
Last Update : Mon Sep 29 09:49:45 2008
Response via : Initial Calibration

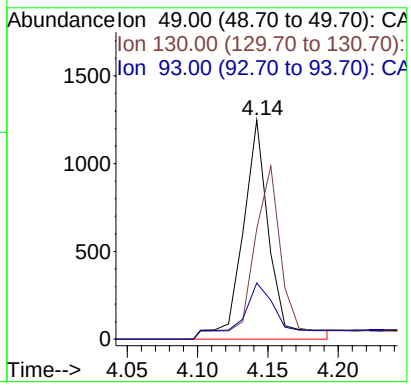


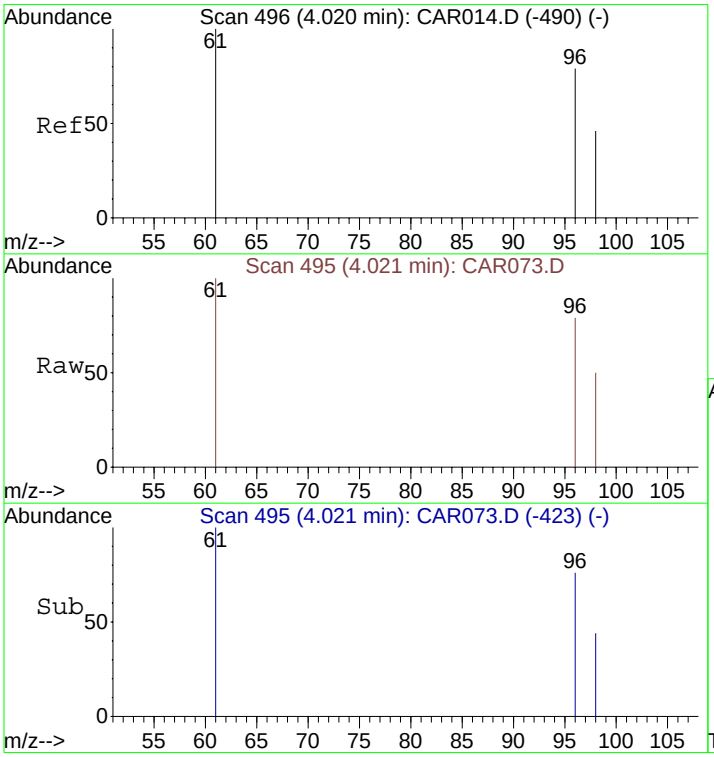


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 515
Delta R.T. 0.01 min
Lab File: CAR073.D
Acq: 17 Sep 2008 1:41

Tgt Ion: 49 Resp: 1508

Ion	Ratio	Lower	Upper
49	100		
130	81.0	65.1	97.7
93	35.1	33.8	50.6

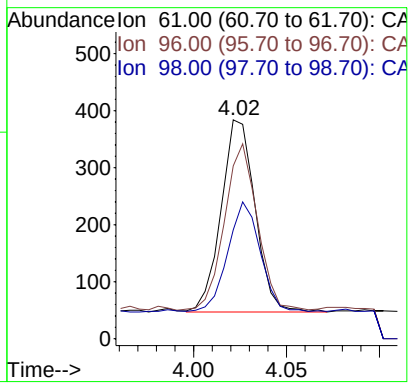


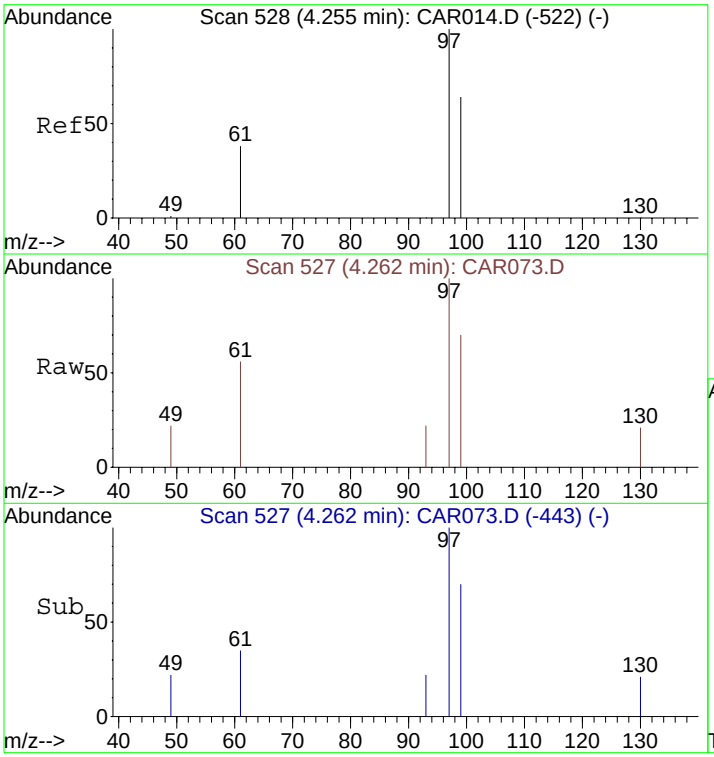


#7
cis-1,2-Dichloroethene
Concen: 33.78 ppbv
RT: 4.02 min Scan# 495
Delta R.T. 0.00 min
Lab File: CAR073.D
Acq: 17 Sep 2008 1:41

Tgt Ion: 61 Resp: 428

Ion	Ratio	Lower	Upper
61	100		
96	82.7	56.0	84.0
98	65.9	36.2	54.4#

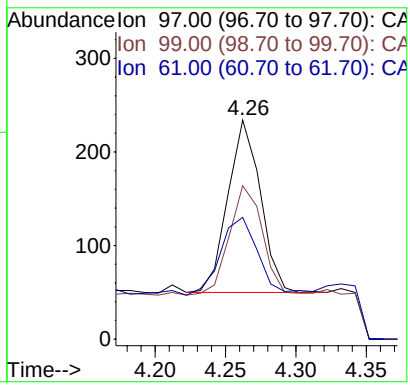


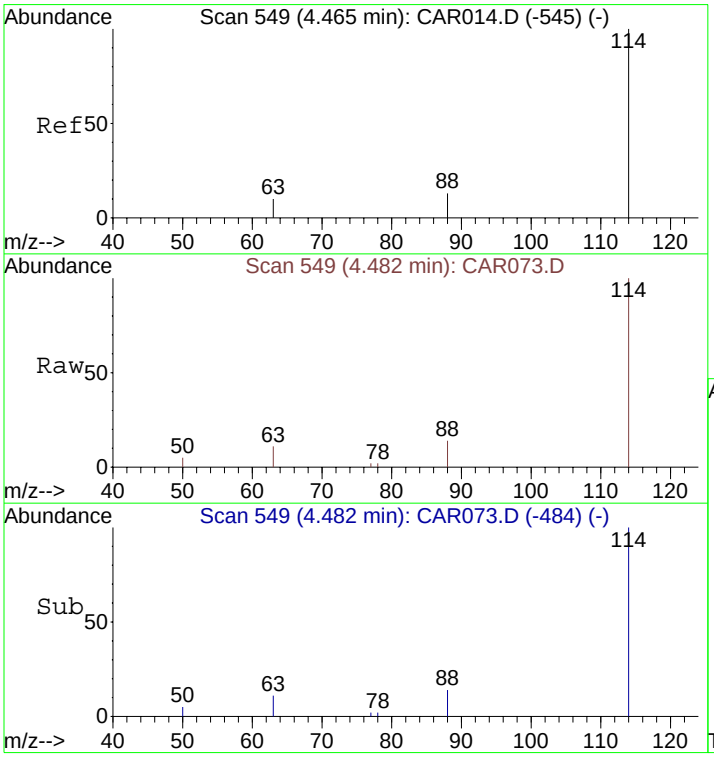


#8
1,1,1-Trichloroethane
Concen: 15.83 ppbv
RT: 4.26 min Scan# 527
Delta R.T. 0.01 min
Lab File: CAR073.D
Acq: 17 Sep 2008 1:41

Tgt Ion: 97 Resp: 298

Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.8	77.8
61	52.7	32.1	48.1#

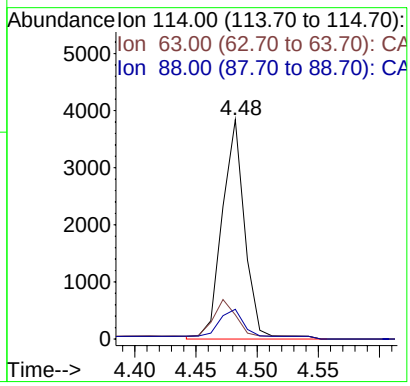


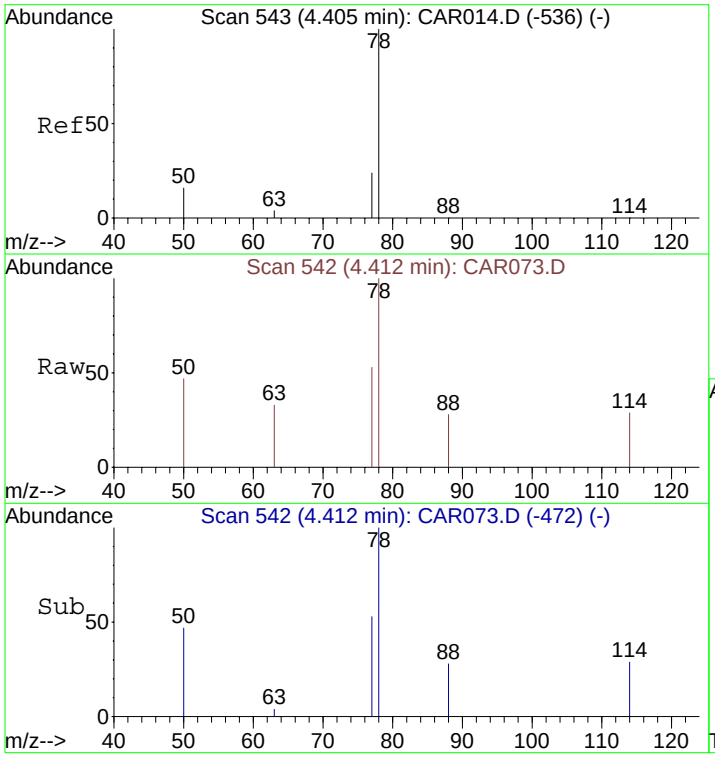


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 549
Delta R.T. 0.02 min
Lab File: CAR073.D
Acq: 17 Sep 2008 1:41

Tgt Ion:114 Resp: 4761

Ion	Ratio	Lower	Upper
114	100		
63	22.1	15.8	23.8
88	18.8	12.2	18.2#

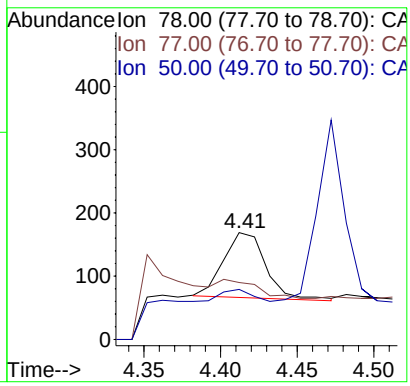


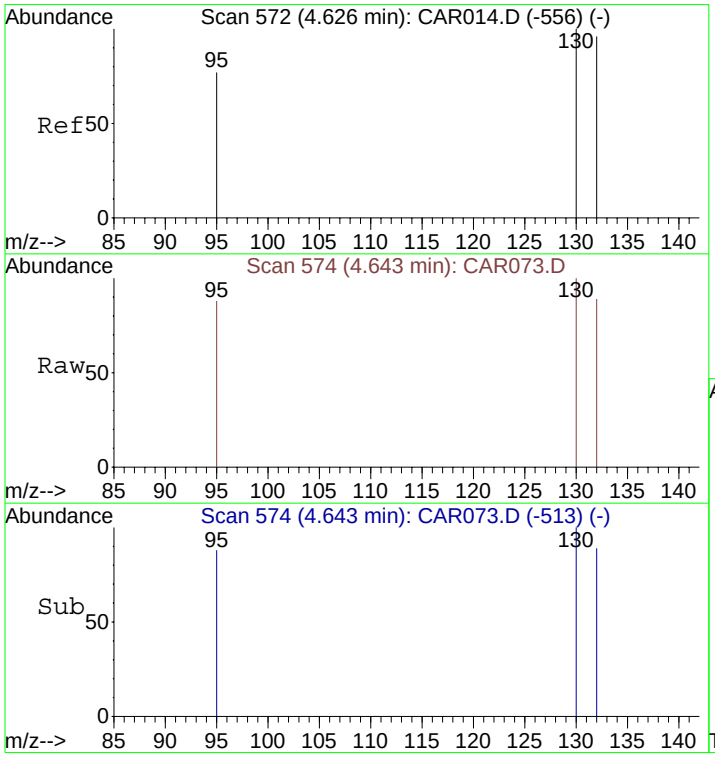


#10
Benzene
Concen: 6.77 ppbv m
RT: 4.41 min Scan# 542
Delta R.T. 0.01 min
Lab File: CAR073.D
Acq: 17 Sep 2008 1:41

Tgt Ion: 78 Resp: 196

Ion	Ratio	Lower	Upper
78	100		
77	20.9	18.6	28.0
50	20.9	16.2	24.4

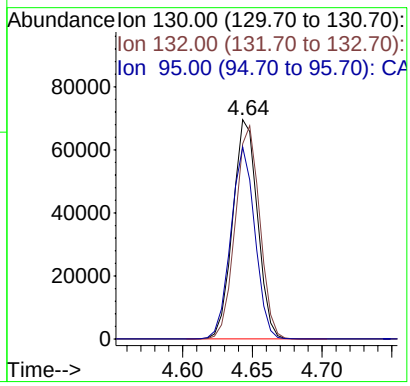


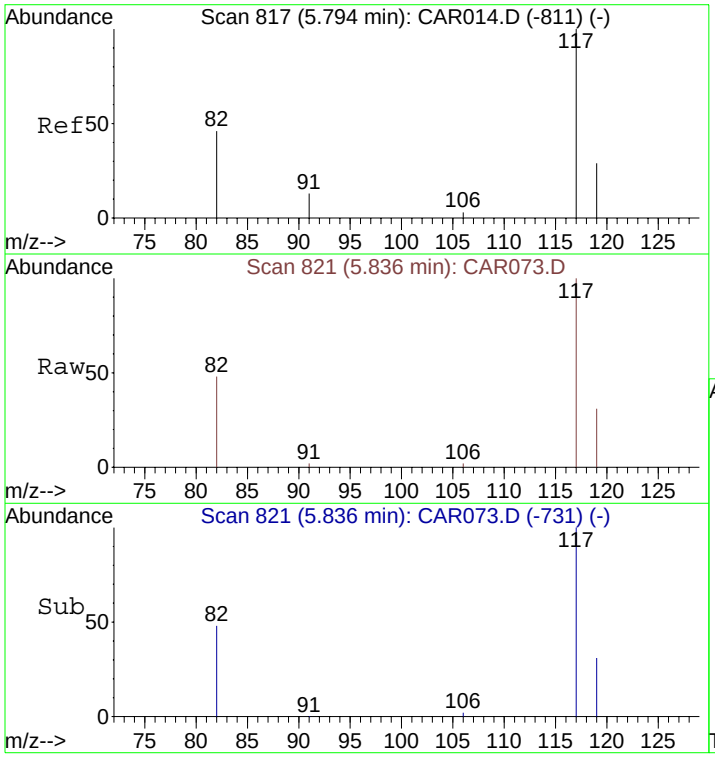


#11
Trichloroethene
Concen: 6075.73 ppbv
RT: 4.64 min Scan# 574
Delta R.T. 0.02 min
Lab File: CAR073.D
Acq: 17 Sep 2008 1:41

Tgt Ion:130 Resp: 85659

Ion	Ratio	Lower	Upper
130	100		
132	96.3	73.8	110.6
95	85.1	72.5	108.7

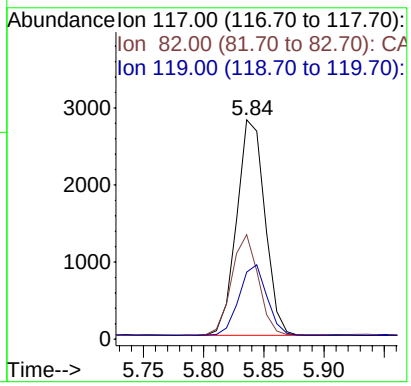


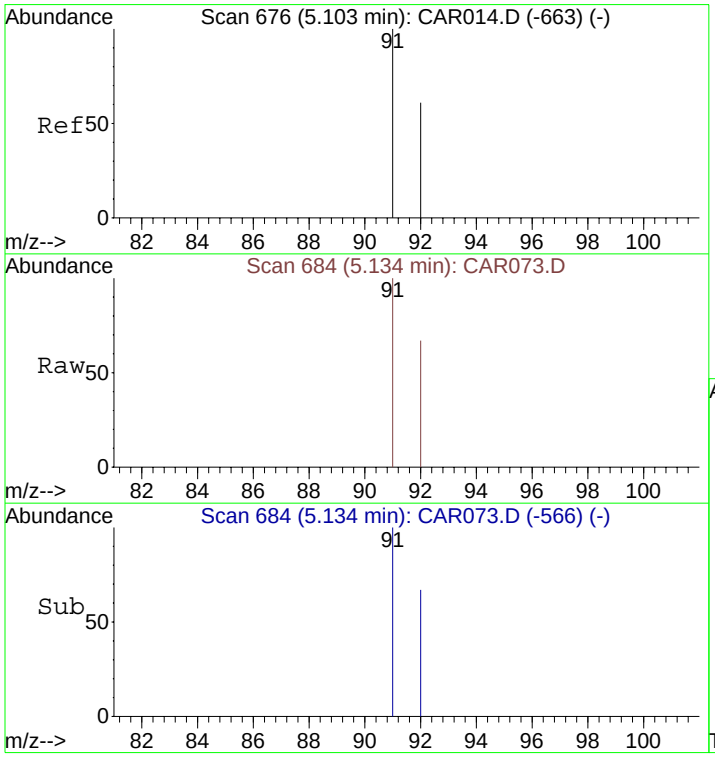


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.84 min Scan# 821
Delta R.T. 0.04 min
Lab File: CAR073.D
Acq: 17 Sep 2008 1:41

Tgt Ion:117 Resp: 4567

Ion	Ratio	Lower	Upper
117	100		
82	44.4	38.3	57.5
119	32.1	26.0	39.0

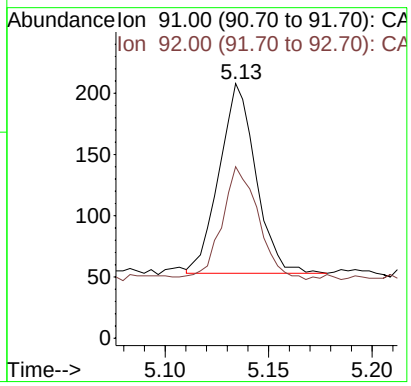


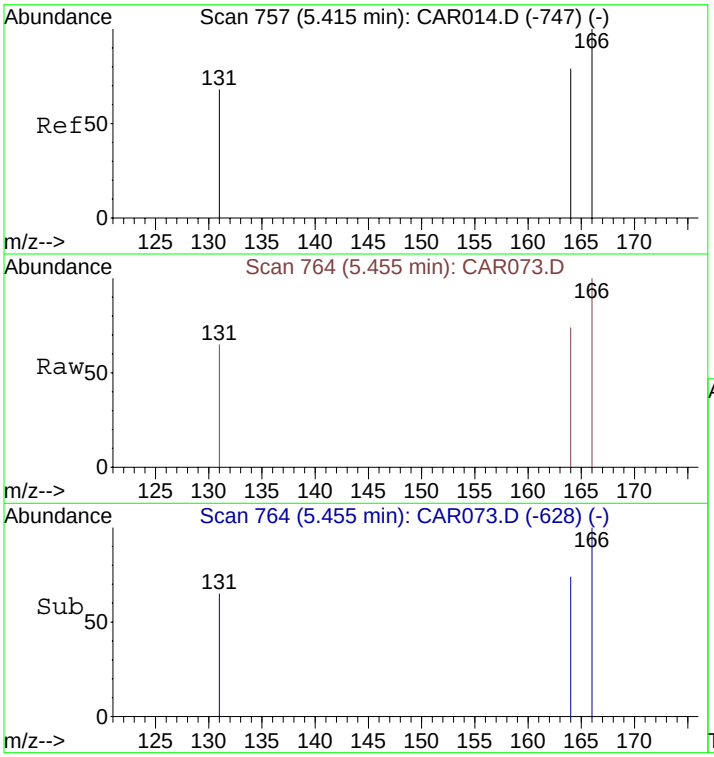


#13
Toluene
Concen: 6.89 ppbv
RT: 5.13 min Scan# 684
Delta R.T. 0.03 min
Lab File: CAR073.D
Acq: 17 Sep 2008 1:41

Tgt Ion: 91 Resp: 191

Ion	Ratio	Lower	Upper
91	100		
92	58.6	48.2	72.2

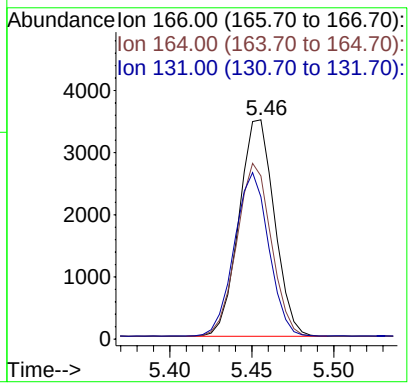




#14
Tetrachloroethene
Concen: 313.34 ppbv
RT: 5.46 min Scan# 764
Delta R.T. 0.04 min
Lab File: CAR073.D
Acq: 17 Sep 2008 1:41

Tgt Ion:166 Resp: 5227

Ion	Ratio	Lower	Upper
166	100		
164	77.8	63.1	94.7
131	73.1	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR082.D Vial: 1
Acq On : 17 Sep 2008 9:48 Operator: dlm
Sample : 20080917-MB\Method Blank Inst : Instrumen
Misc : 5ml IS\17 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 17 09:56:09 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 09:26:15 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.15	49	1796	10.00 ppbv	0.01
9) 1,4-Difluorobenzene	4.49	114	5656	10.00 ppbv	0.02
12) Chlorobenzene-d5	5.84	117	5572	10.00 ppbv	0.04

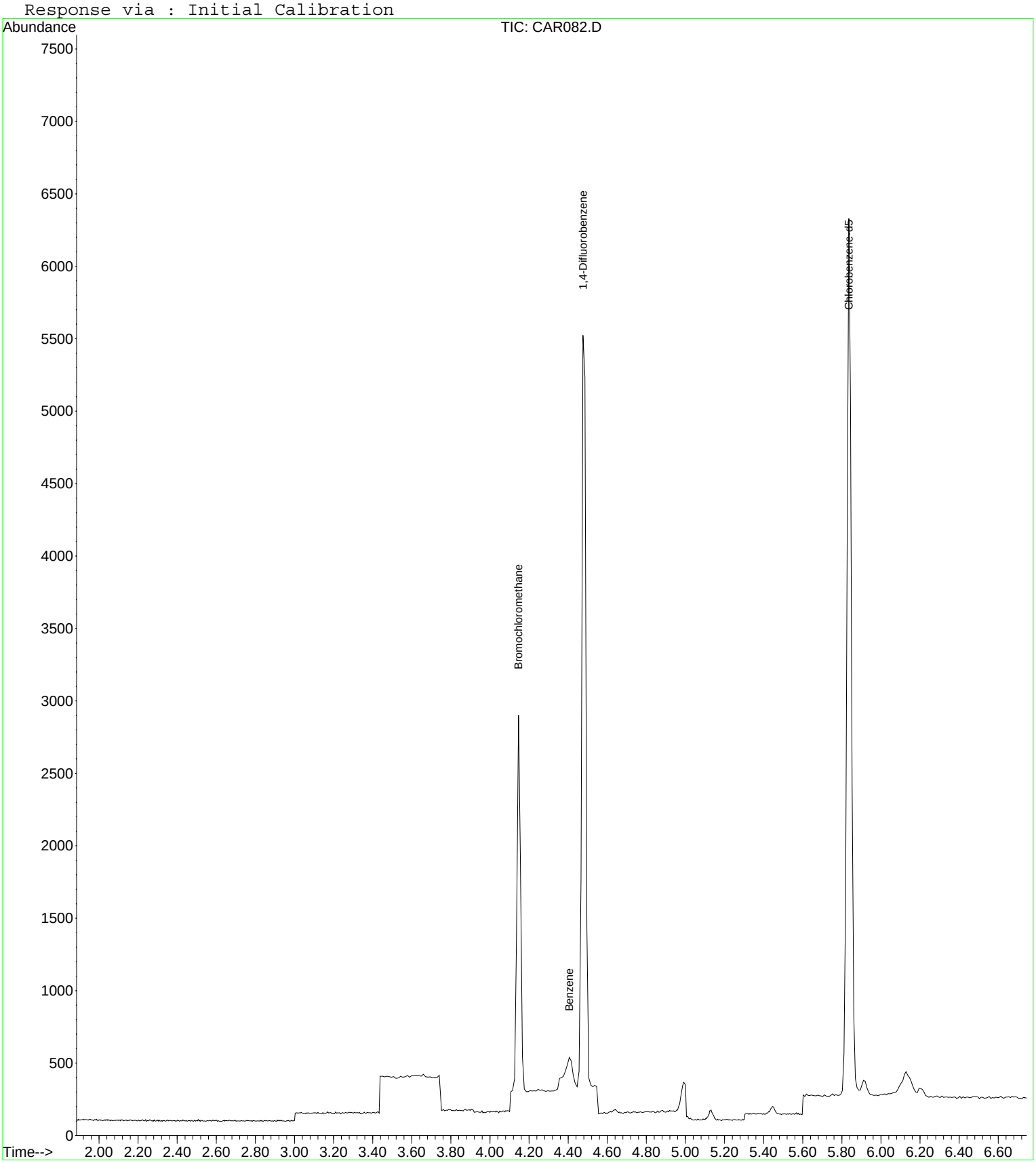
Target Compounds					Qvalue
10) Benzene	4.41	78	242m	0.74 ppbv	

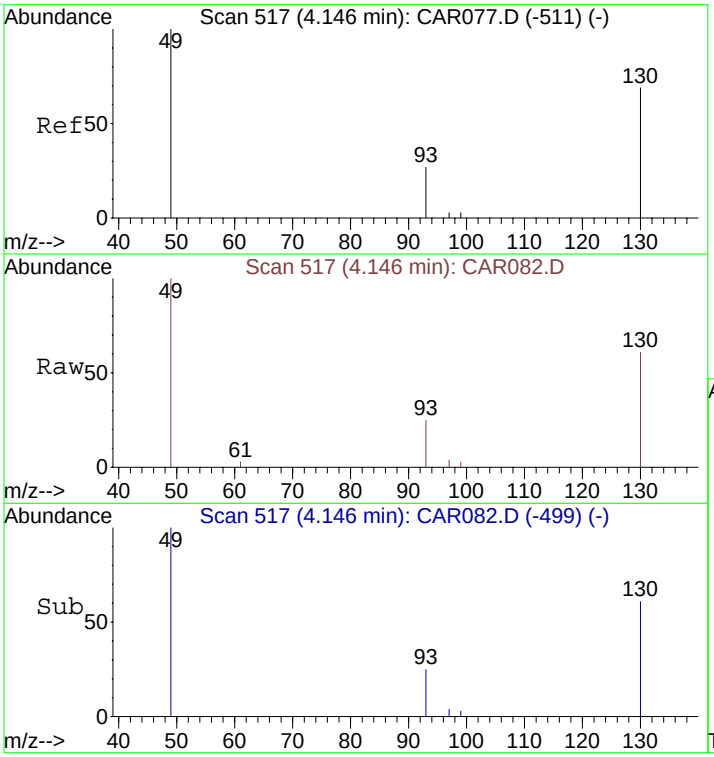
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR082.D Vial: 1
Acq On : 17 Sep 2008 9:48 Operator: dlm
Sample : 20080917-MB\Method Blank Inst : Instrumen
Misc : 5ml IS\17 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 30 8:53 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

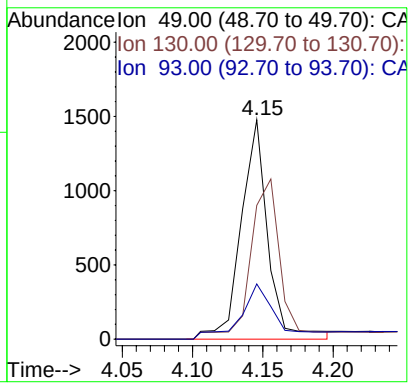


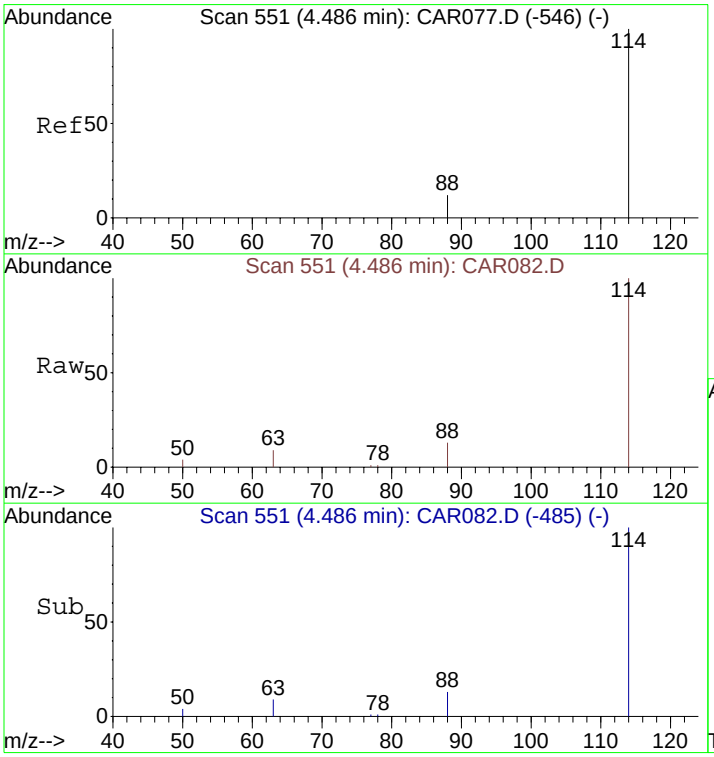


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.15 min Scan# 517
Delta R.T. 0.01 min
Lab File: CAR082.D
Acq: 17 Sep 2008 9:48

Tgt Ion: 49 Resp: 1796

Ion	Ratio	Lower	Upper
49	100		
130	81.8	65.1	97.7
93	32.1	33.8	50.6#

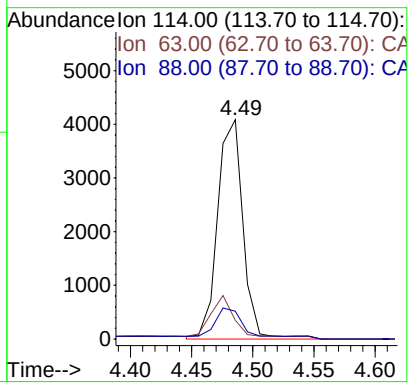


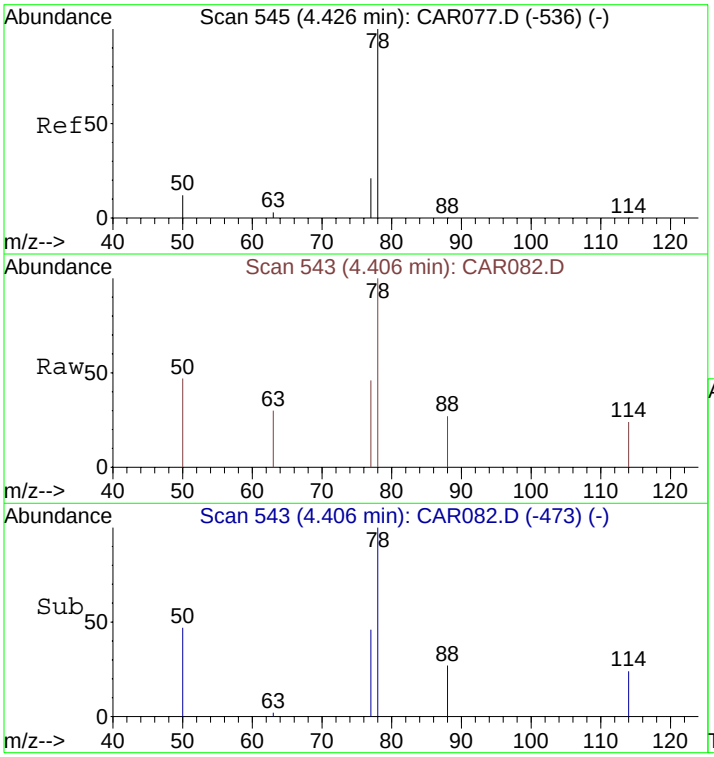


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.49 min Scan# 551
Delta R.T. 0.02 min
Lab File: CAR082.D
Acq: 17 Sep 2008 9:48

Tgt Ion:114 Resp: 5656

Ion	Ratio	Lower	Upper
114	100		
63	21.0	15.8	23.8
88	17.6	12.2	18.2

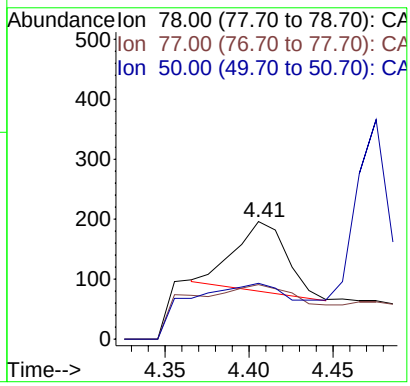


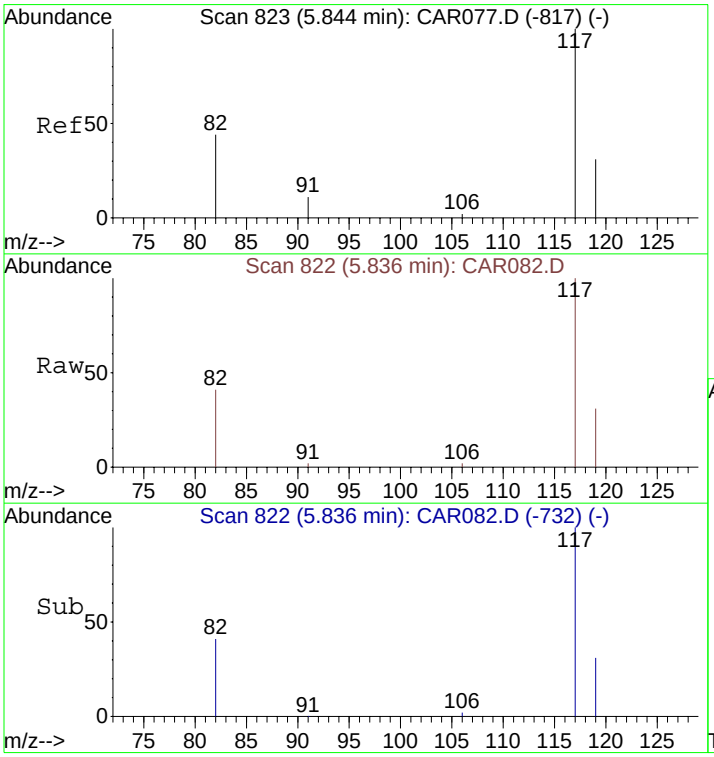


#10
Benzene
Concen: 0.74 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR082.D
Acq: 17 Sep 2008 9:48

Tgt Ion: 78 Resp: 242

Ion	Ratio	Lower	Upper
78	100		
77	15.3	18.6	28.0#
50	9.9	16.2	24.4#

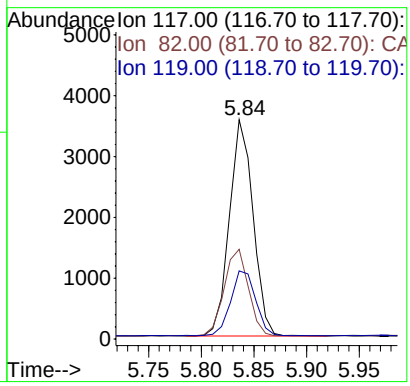




#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.84 min Scan# 822
Delta R.T. 0.04 min
Lab File: CAR082.D
Acq: 17 Sep 2008 9:48

Tgt Ion:117 Resp: 5572

Ion	Ratio	Lower	Upper
117	100		
82	41.0	38.3	57.5
119	31.4	26.0	39.0



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR083.D Vial: 1
Acq On : 17 Sep 2008 9:58 Operator: dlm
Sample : 20080917-LB\Lot Blank Inst : Instrumen
Misc : N2 + 5ml IS\17 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 17 10:06:32 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1866	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	5931	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.80	117	5711	10.00 ppbv	0.00

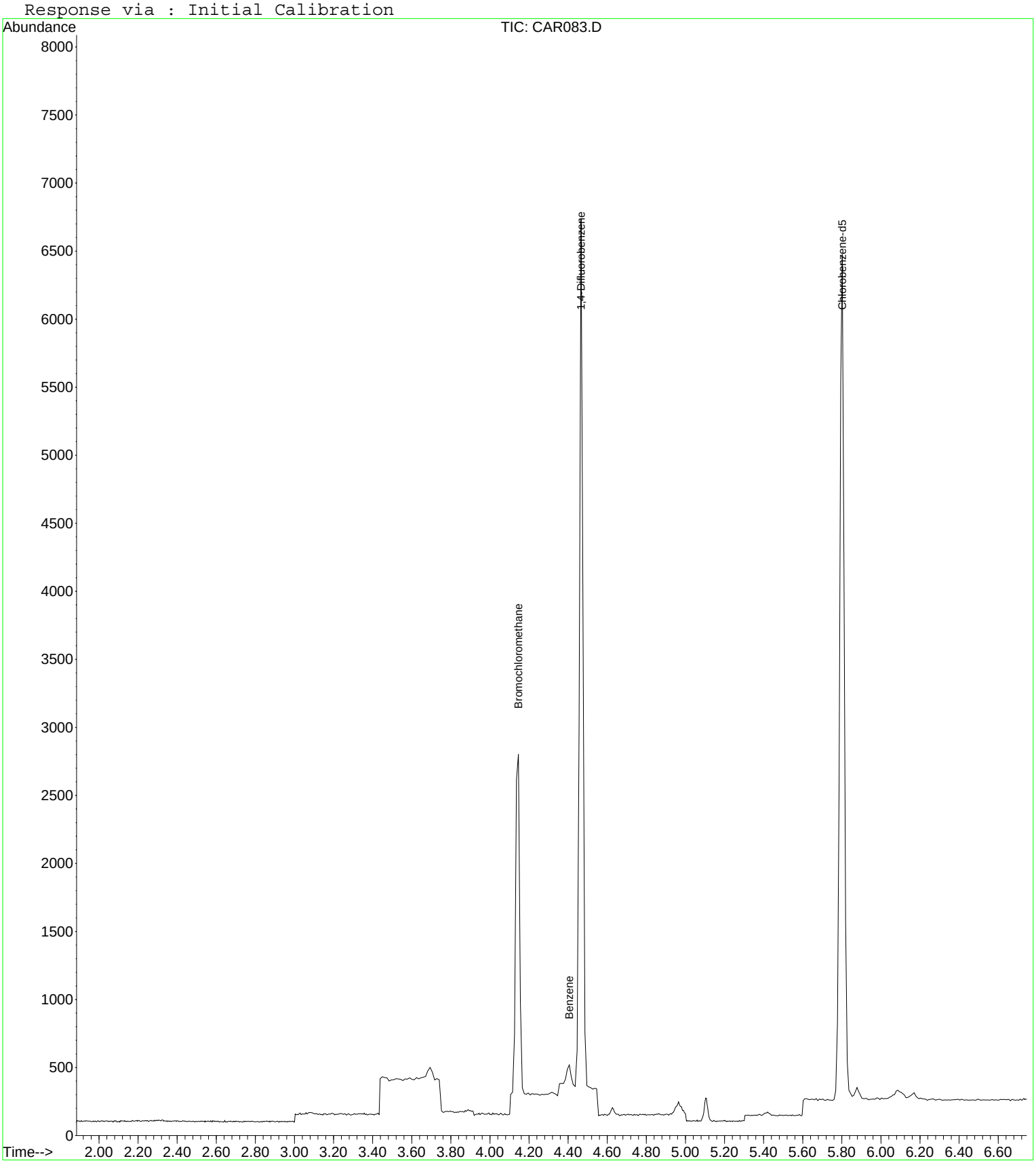
Target Compounds					Qvalue
10) Benzene	4.41	78	194m	0.56 ppbv	

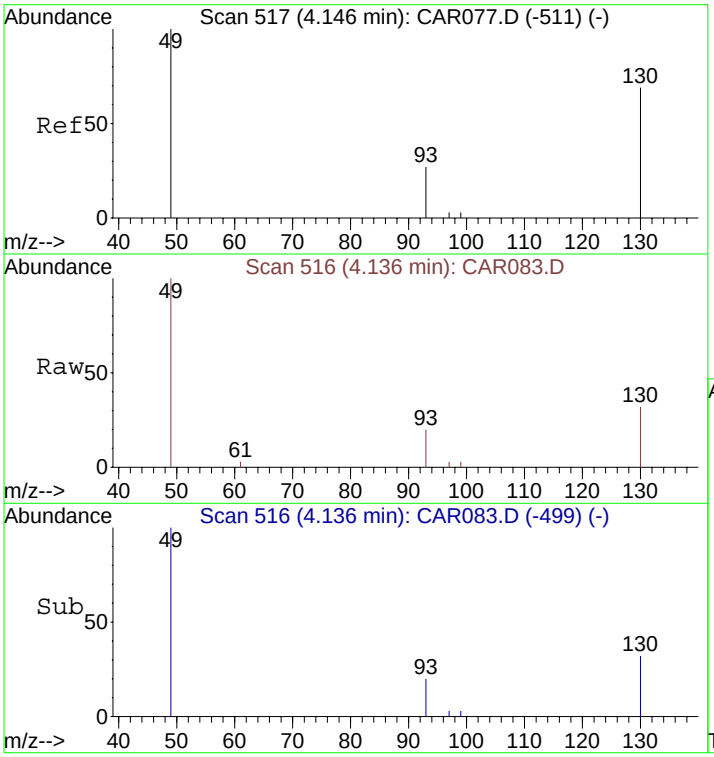
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR083.D Vial: 1
Acq On : 17 Sep 2008 9:58 Operator: dlm
Sample : 20080917-LB\Lot Blank Inst : Instrumen
Misc : N2 + 5ml IS\17 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 30 8:58 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

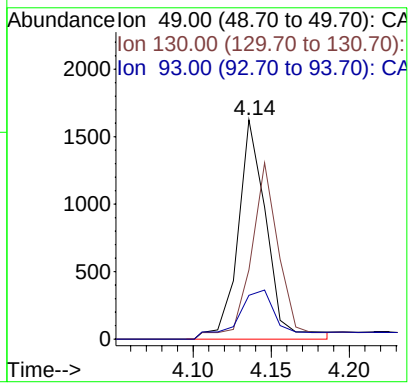


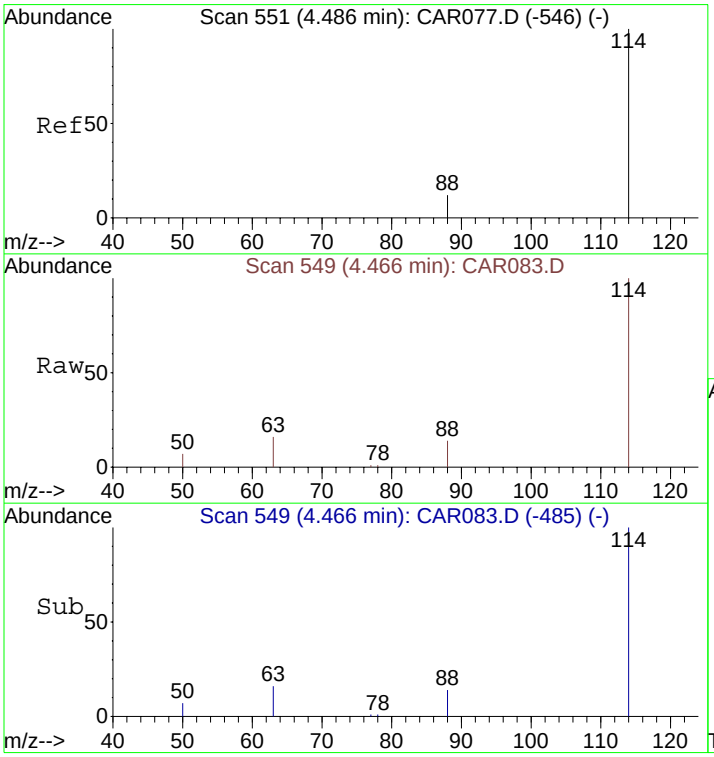


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR083.D
Acq: 17 Sep 2008 9:58

Tgt Ion: 49 Resp: 1866

Ion	Ratio	Lower	Upper
49	100		
130	80.1	65.1	97.7
93	31.1	33.8	50.6#

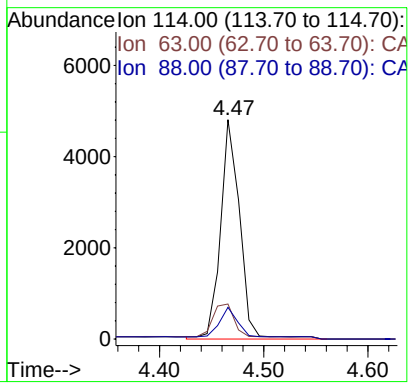


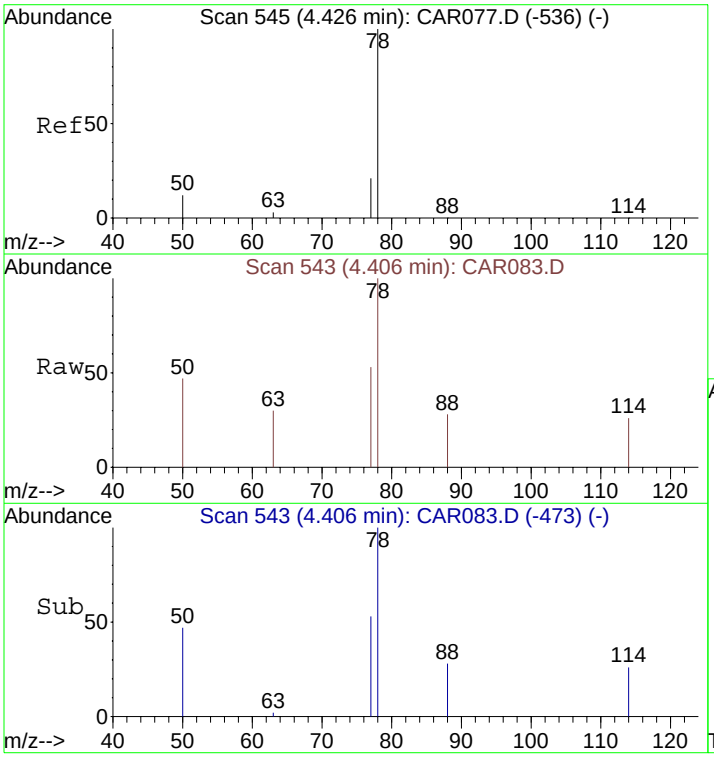


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. 0.00 min
Lab File: CAR083.D
Acq: 17 Sep 2008 9:58

Tgt Ion:114 Resp: 5931

Ion	Ratio	Lower	Upper
114	100		
63	18.1	15.8	23.8
88	13.8	12.2	18.2

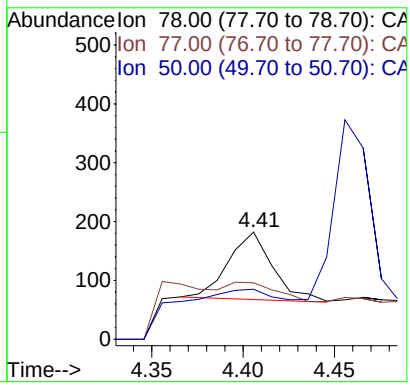


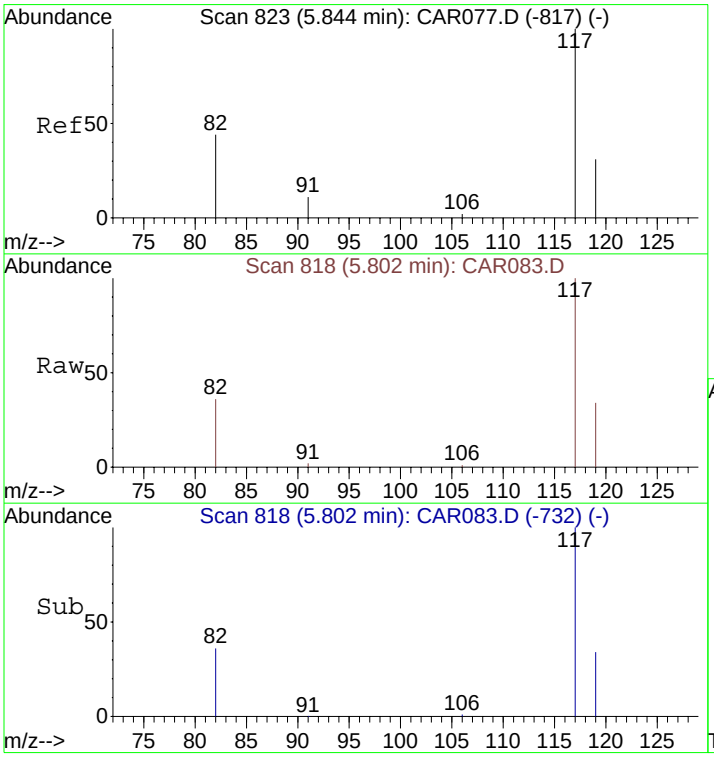


#10
Benzene
Concen: 0.56 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR083.D
Acq: 17 Sep 2008 9:58

Tgt Ion: 78 Resp: 194

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.6	28.0
50	19.6	16.2	24.4

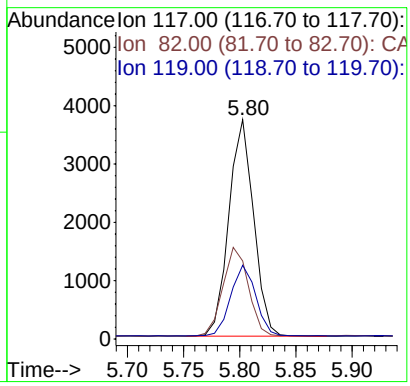




#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.80 min Scan# 818
Delta R.T. 0.01 min
Lab File: CAR083.D
Acq: 17 Sep 2008 9:58

Tgt Ion:117 Resp: 5711

Ion	Ratio	Lower	Upper
117	100		
82	42.3	38.3	57.5
119	33.2	26.0	39.0



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR085.D Vial: 1
Acq On : 17 Sep 2008 10:34 Operator: dlm
Sample : 51413\F3-SG Inst : Instrumen
Misc : 5 ml\17 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Sep 30 07:41:53 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 07:39:15 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1931	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	5988	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.79	117	5917	10.00 ppbv	0.00

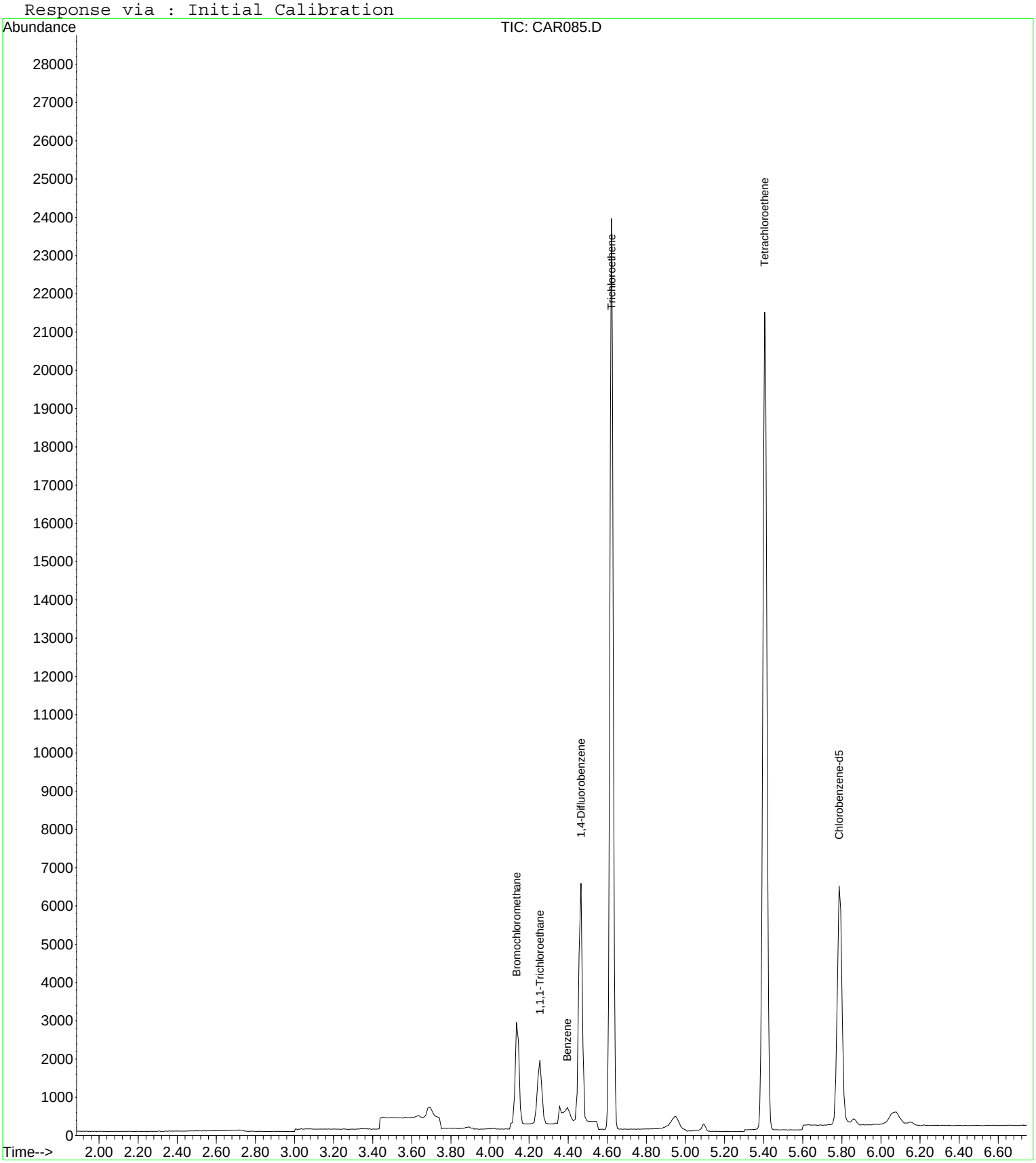
Target Compounds					Qvalue
8) 1,1,1-Trichloroethane	4.26	97	1276	4.93 ppbv	99
10) Benzene	4.40	78	260m	0.75 ppbv	
11) Trichloroethene	4.62	130	11493	56.28 ppbv #	87
14) Tetrachloroethene	5.41	166	12546	50.19 ppbv	98

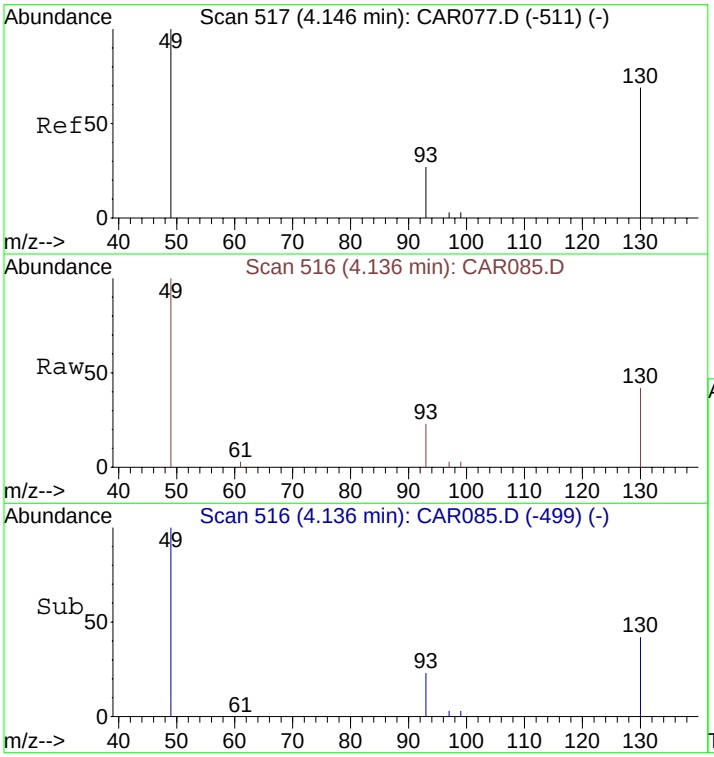
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR085.D Vial: 1
Acq On : 17 Sep 2008 10:34 Operator: dlm
Sample : 51413\F3-SG Inst : Instrumen
Misc : 5 ml\17 Sep 2008 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:38 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Thu Oct 02 14:38:10 2008
Response via : Initial Calibration

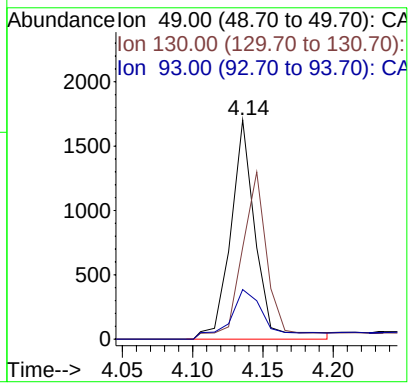


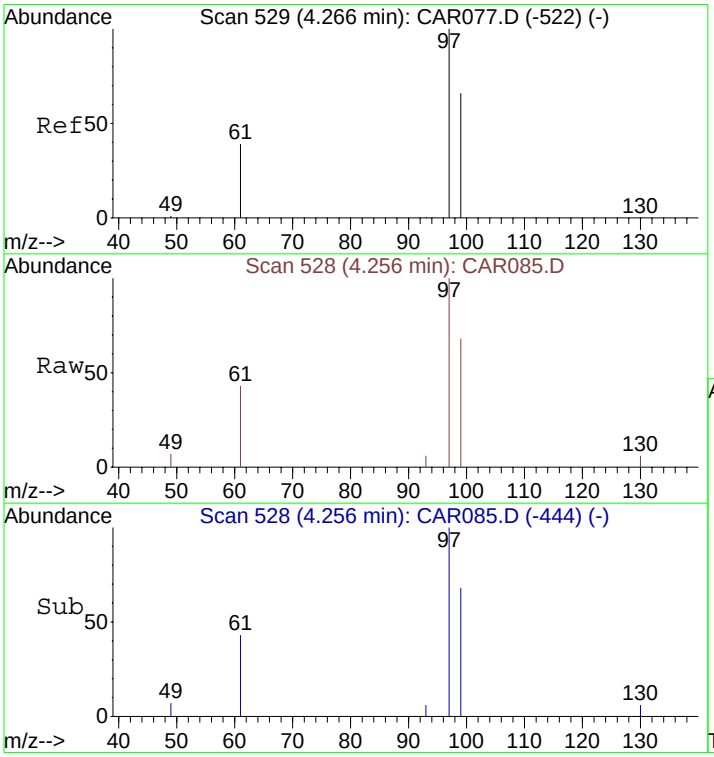


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR085.D
Acq: 17 Sep 2008 10:34

Tgt Ion: 49 Resp: 1931

Ion	Ratio	Lower	Upper
49	100		
130	77.3	65.1	97.7
93	33.7	33.8	50.6#

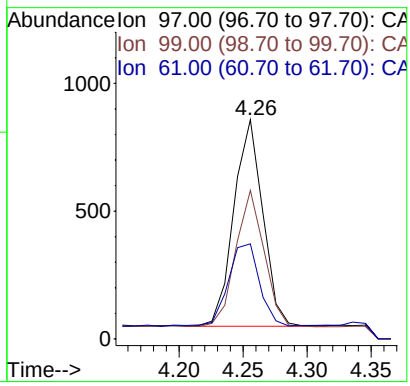


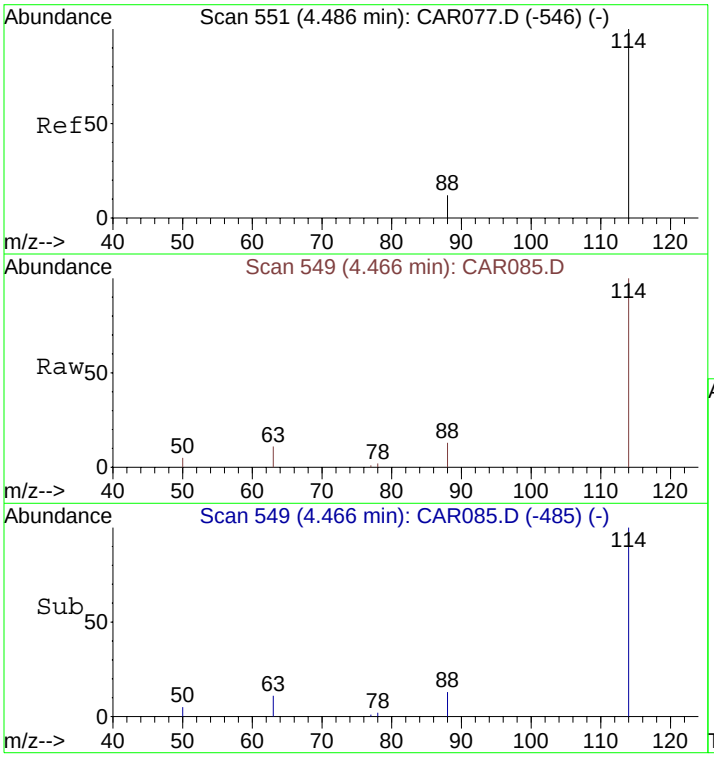


#8
1,1,1-Trichloroethane
Concen: 4.93 ppbv
RT: 4.26 min Scan# 528
Delta R.T. 0.00 min
Lab File: CAR085.D
Acq: 17 Sep 2008 10:34

Tgt Ion: 97 Resp: 1276

Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.8	77.8
61	41.5	32.1	48.1

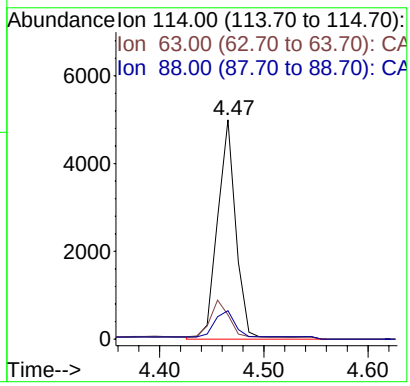


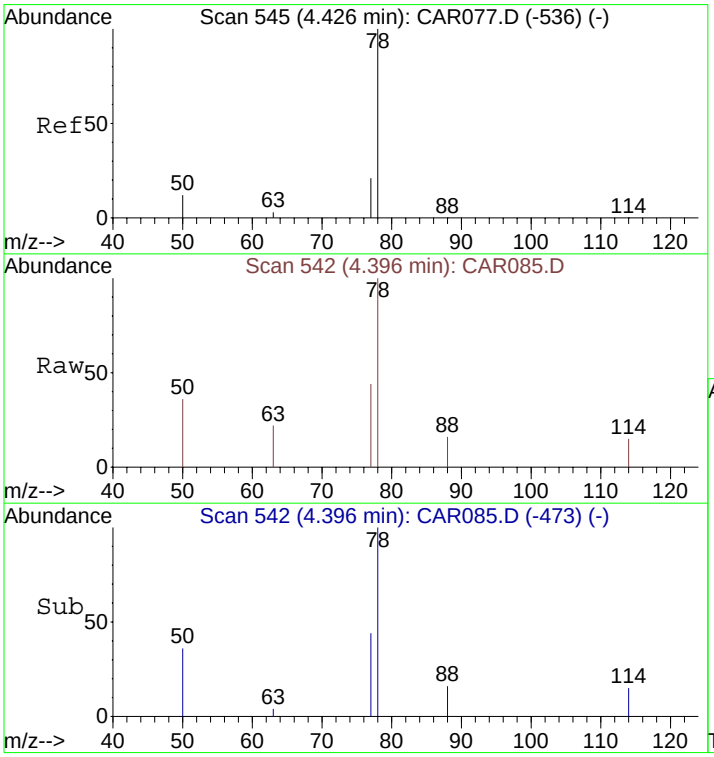


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. 0.00 min
Lab File: CAR085.D
Acq: 17 Sep 2008 10:34

Tgt Ion:114 Resp: 5988

Ion	Ratio	Lower	Upper
114	100		
63	18.1	15.8	23.8
88	14.2	12.2	18.2

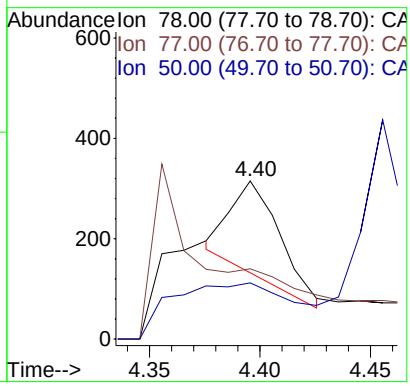


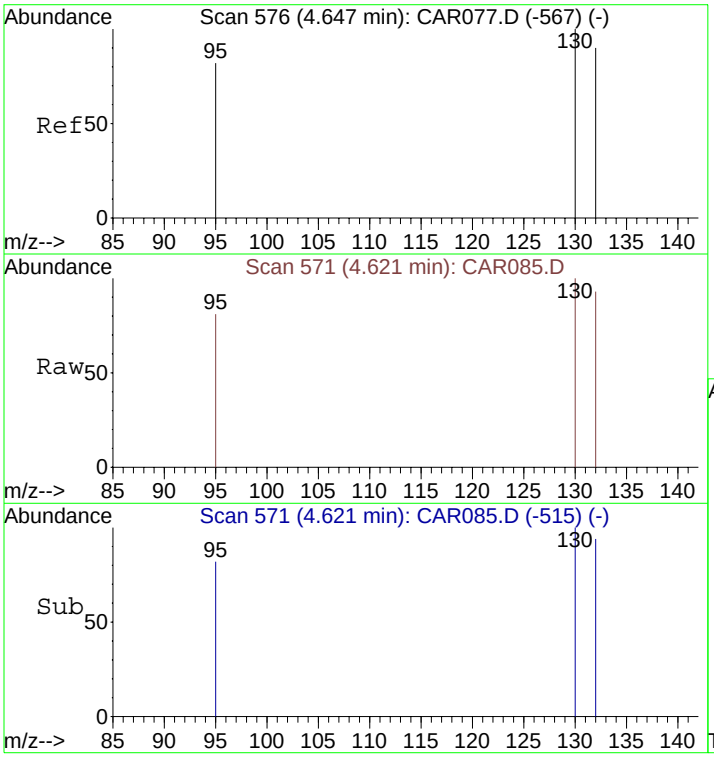


#10
Benzene
Concen: 0.75 ppbv m
RT: 4.40 min Scan# 542
Delta R.T. -0.01 min
Lab File: CAR085.D
Acq: 17 Sep 2008 10:34

Tgt Ion: 78 Resp: 260

Ion	Ratio	Lower	Upper
78	100		
77	18.8	18.6	28.0
50	20.4	16.2	24.4

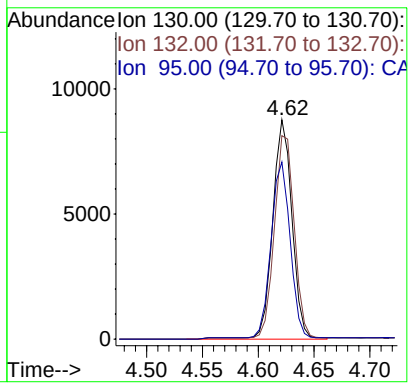


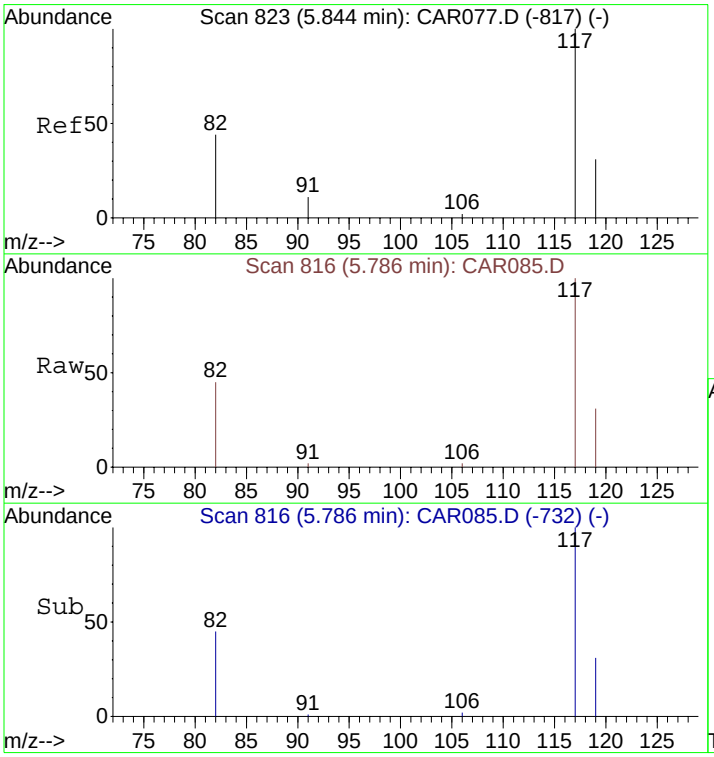


#11
Trichloroethene
Concen: 56.28 ppbv
RT: 4.62 min Scan# 571
Delta R.T. -0.00 min
Lab File: CAR085.D
Acq: 17 Sep 2008 10:34

Tgt Ion:130 Resp: 11493

Ion	Ratio	Lower	Upper
130	100		
132	85.8	73.8	110.6
95	72.2	72.5	108.7#

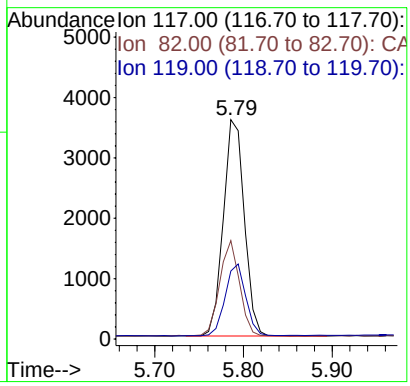


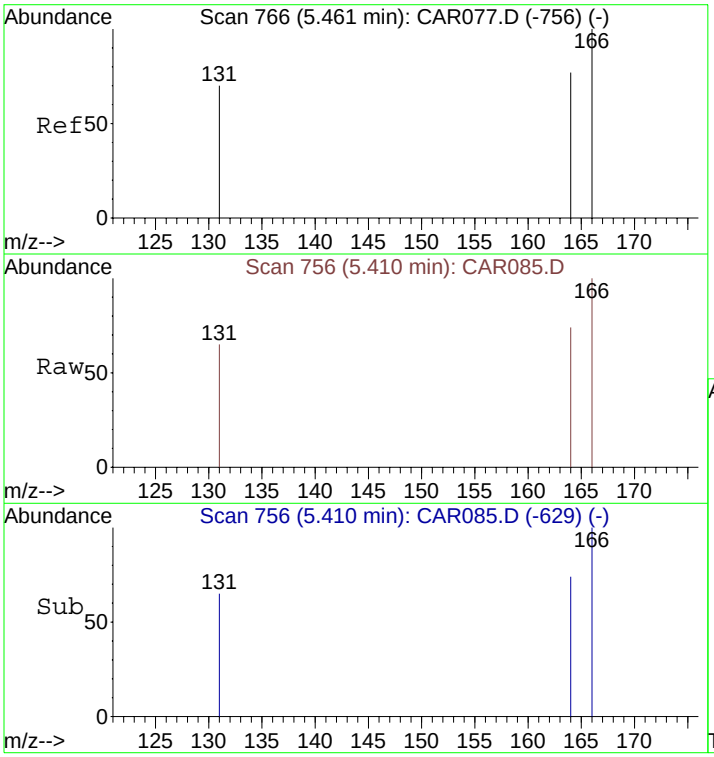


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.79 min Scan# 816
Delta R.T. -0.01 min
Lab File: CAR085.D
Acq: 17 Sep 2008 10:34

Tgt Ion:117 Resp: 5917

Ion	Ratio	Lower	Upper
117	100		
82	41.2	38.3	57.5
119	32.2	26.0	39.0

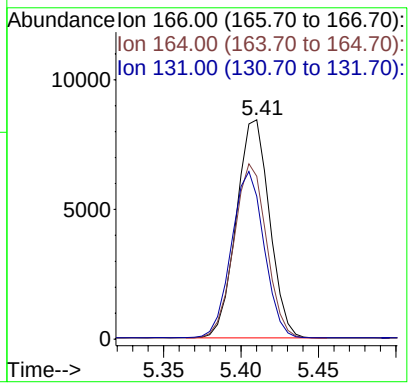




#14
Tetrachloroethene
Concen: 50.19 ppbv
RT: 5.41 min Scan# 756
Delta R.T. -0.00 min
Lab File: CAR085.D
Acq: 17 Sep 2008 10:34

Tgt Ion:166 Resp: 12546

Ion	Ratio	Lower	Upper
166	100		
164	78.5	63.1	94.7
131	74.9	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR086.D Vial: 1
Acq On : 17 Sep 2008 11:14 Operator: dlm
Sample : 51414\A5-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 11:21:57 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.13	49	1866	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.46	114	6038	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.79	117	6096	10.00 ppbv	0.00

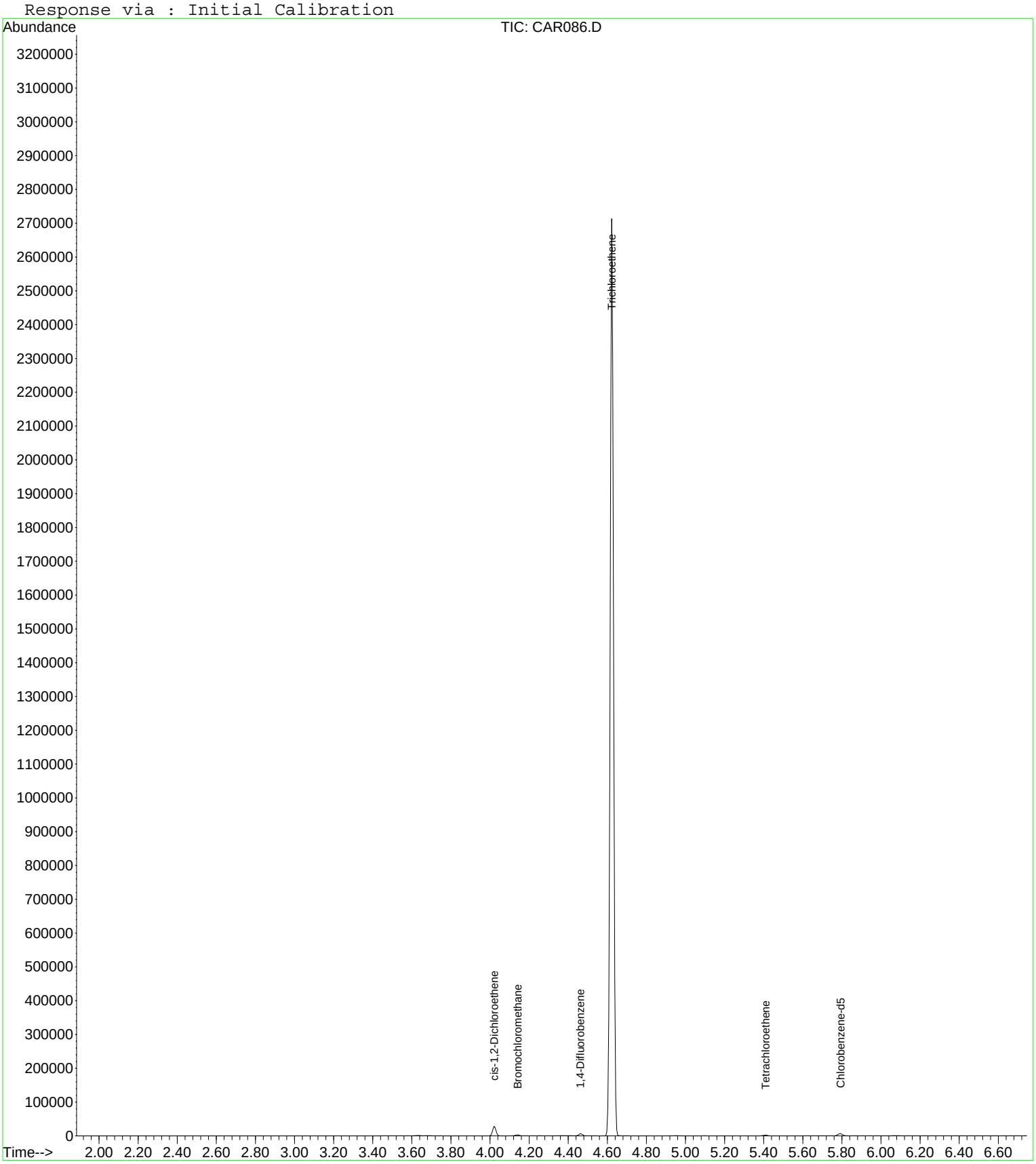
Target Compounds					Qvalue
5) trans-1,2-Dichloroethene	3.62	61	557	33.80 ppbv	99
7) cis-1,2-Dichloroethene	4.02	61	14832	918.23 ppbv #	86
8) 1,1,1-Trichloroethane	4.25	97	212	8.48 ppbv #	75
10) Benzene	4.40	78	536m	15.32 ppbv	
11) Trichloroethene	4.62	130	1151018	55893.06 ppbv	92
13) Toluene	5.10	91	313	6.97 ppbv	96
14) Tetrachloroethene	5.41	166	1373	53.32 ppbv	97

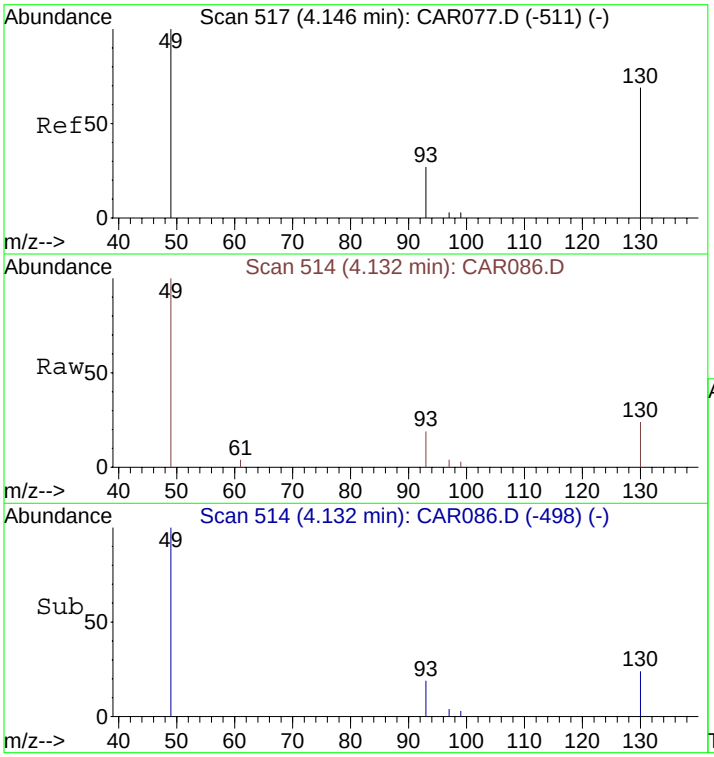
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR086.D Vial: 1
Acq On : 17 Sep 2008 11:14 Operator: dlm
Sample : 51414\A5-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:43 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Thu Oct 02 14:38:10 2008
Response via : Initial Calibration

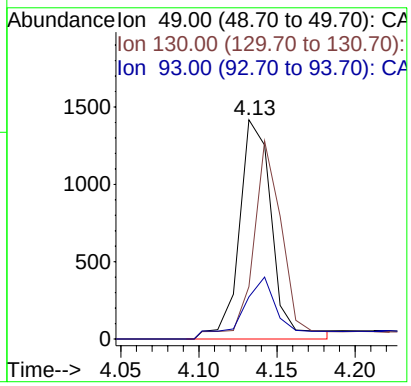


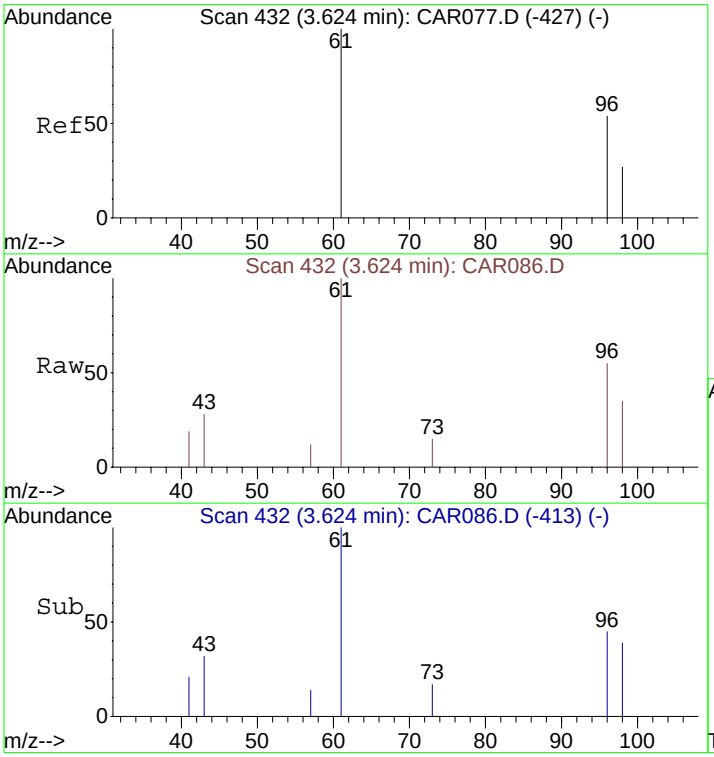


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.13 min Scan# 514
Delta R.T. -0.00 min
Lab File: CAR086.D
Acq: 17 Sep 2008 11:14

Tgt Ion: 49 Resp: 1866

Ion	Ratio	Lower	Upper
49	100		
130	83.0	65.1	97.7
93	34.6	33.8	50.6

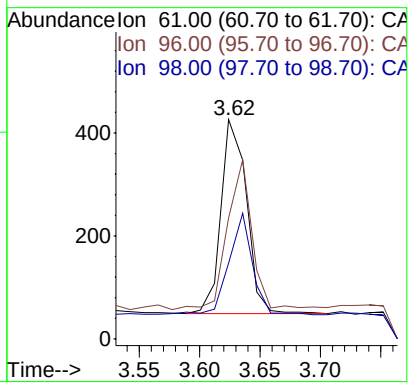


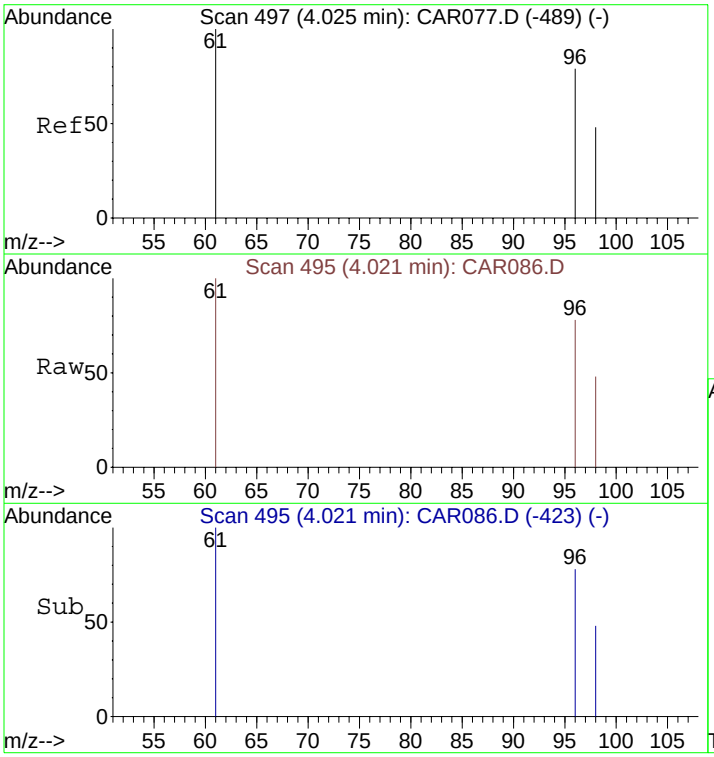


#5
trans-1,2-Dichloroethene
Concen: 33.80 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR086.D
Acq: 17 Sep 2008 11:14

Tgt Ion: 61 Resp: 557

Ion	Ratio	Lower	Upper
61	100		
96	68.8	55.0	82.4
98	46.9	35.6	53.4

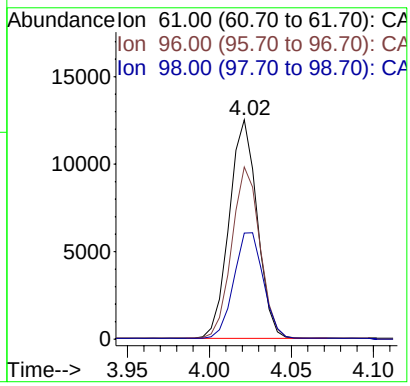


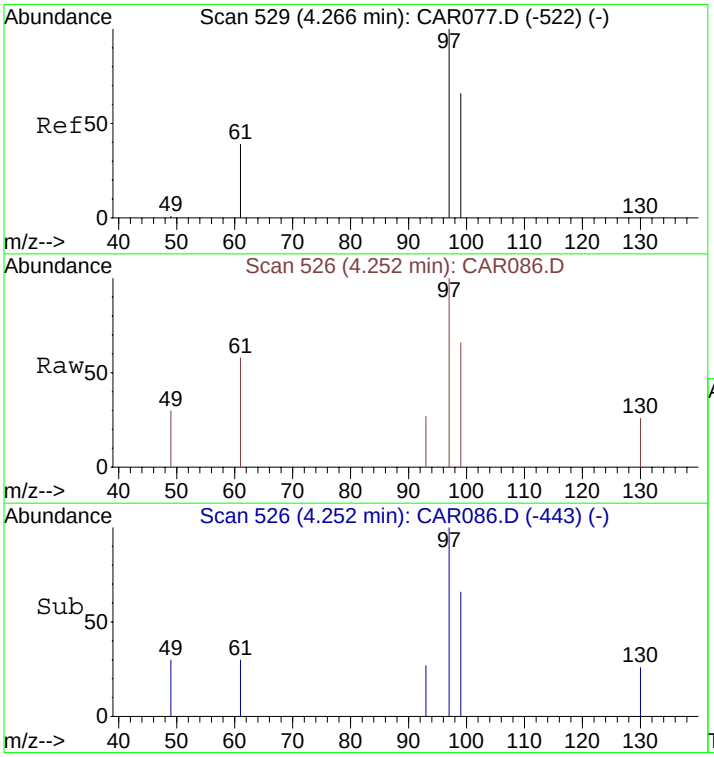


#7
cis-1,2-Dichloroethene
Concen: 918.23 ppbv
RT: 4.02 min Scan# 495
Delta R.T. 0.00 min
Lab File: CAR086.D
Acq: 17 Sep 2008 11:14

Tgt Ion: 61 Resp: 14832

Ion	Ratio	Lower	Upper
61	100		
96	84.5	56.0	84.0#
98	50.8	36.2	54.4

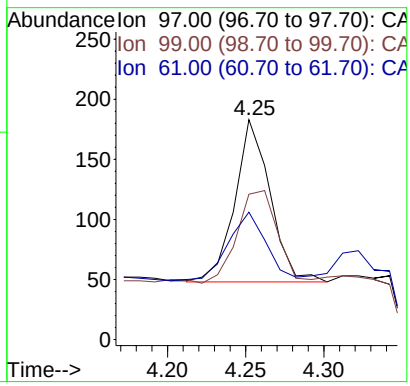


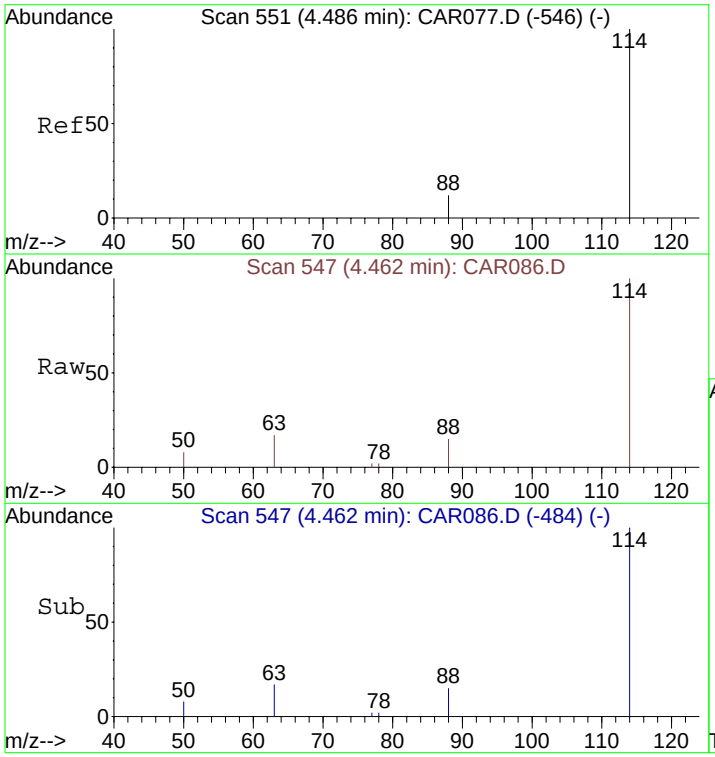


#8
1,1,1-Trichloroethane
Concen: 8.48 ppbv
RT: 4.25 min Scan# 526
Delta R.T. -0.00 min
Lab File: CAR086.D
Acq: 17 Sep 2008 11:14

Tgt Ion: 97 Resp: 212

Ion	Ratio	Lower	Upper
97	100		
99	65.6	51.8	77.8
61	0.0	32.1	48.1#

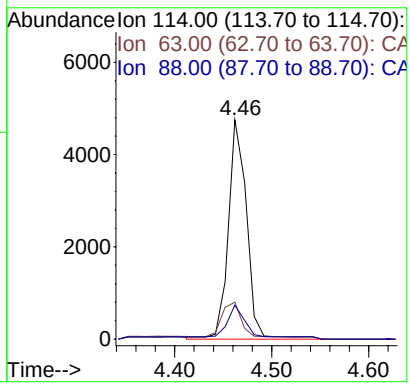


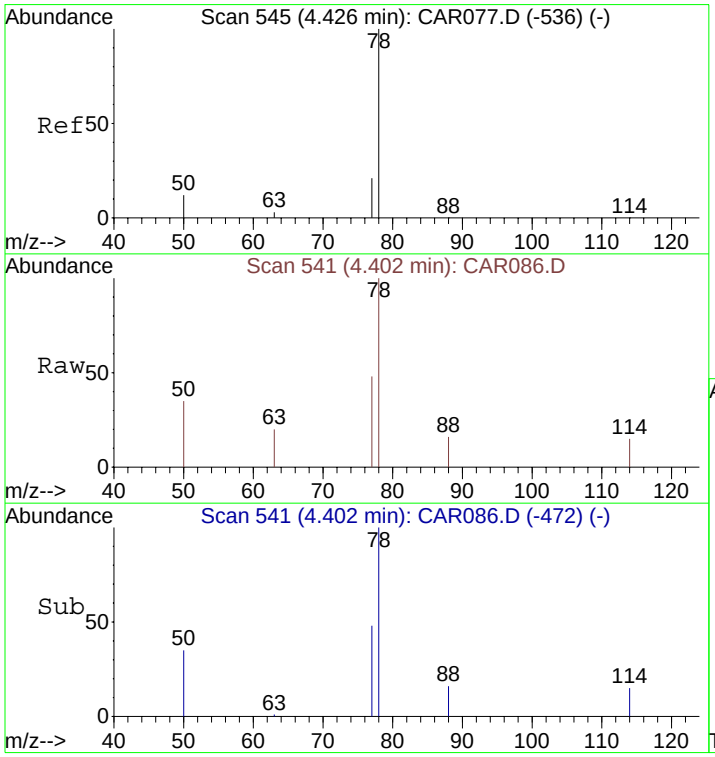


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.46 min Scan# 547
Delta R.T. -0.00 min
Lab File: CAR086.D
Acq: 17 Sep 2008 11:14

Tgt Ion:114 Resp: 6038

Ion	Ratio	Lower	Upper
114	100		
63	17.8	15.8	23.8
88	14.2	12.2	18.2

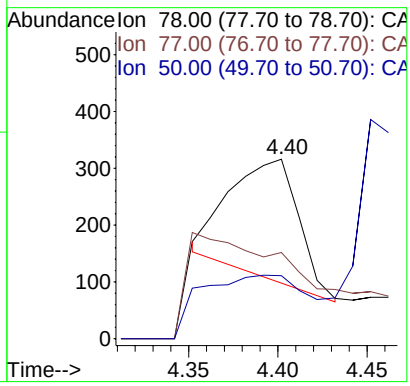


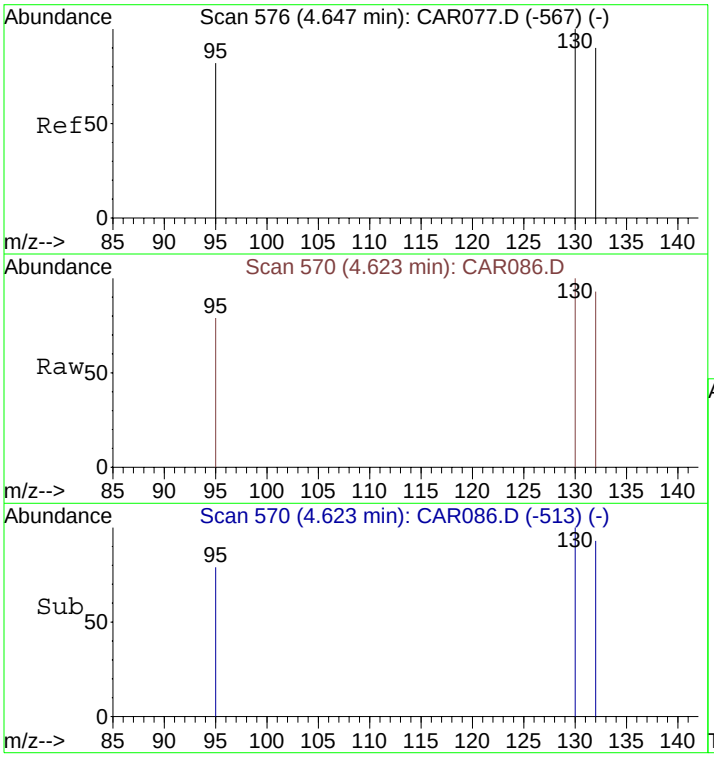


#10
Benzene
Concen: 15.32 ppbv m
RT: 4.40 min Scan# 541
Delta R.T. -0.00 min
Lab File: CAR086.D
Acq: 17 Sep 2008 11:14

Tgt Ion: 78 Resp: 536

Ion	Ratio	Lower	Upper
78	100		
77	15.1	18.6	28.0#
50	18.7	16.2	24.4

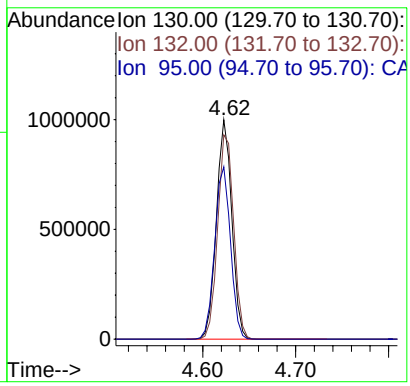


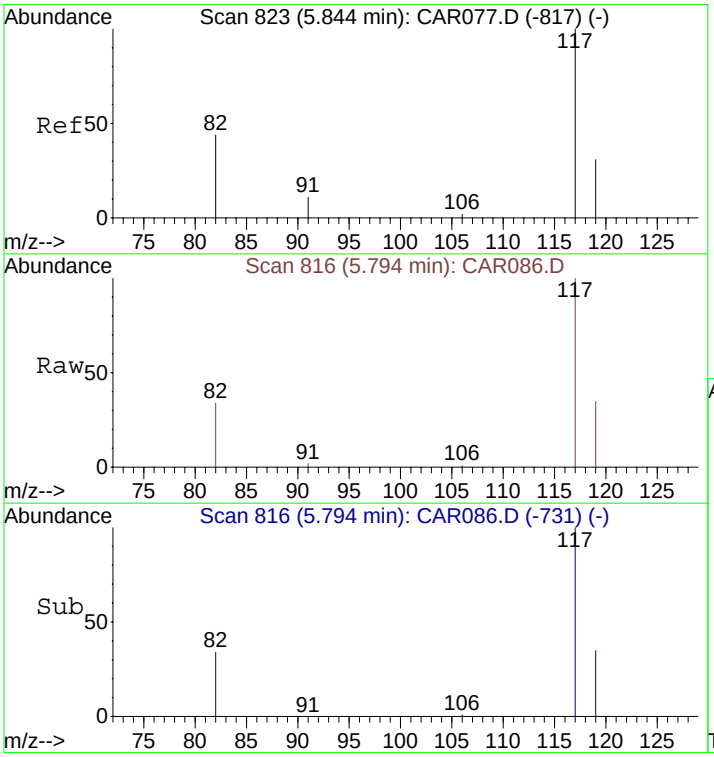


#11
Trichloroethene
Concen: 55893.06 ppbv
RT: 4.62 min Scan# 570
Delta R.T. -0.00 min
Lab File: CAR086.D
Acq: 17 Sep 2008 11:14

Tgt Ion:130 Resp: 1151018

Ion	Ratio	Lower	Upper
130	100		
132	96.6	73.8	110.6
95	80.3	72.5	108.7

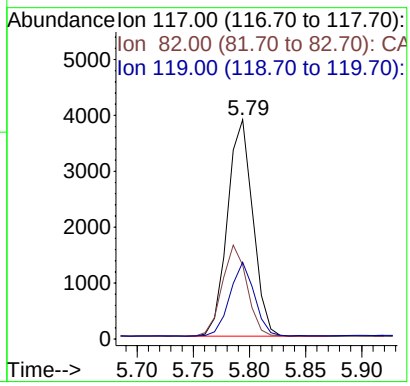


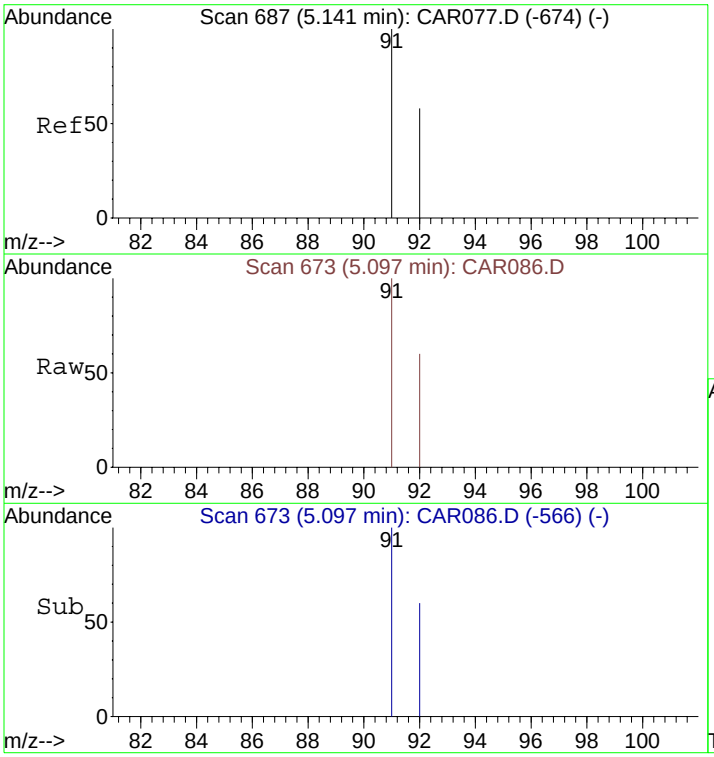


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.79 min Scan# 816
Delta R.T. 0.00 min
Lab File: CAR086.D
Acq: 17 Sep 2008 11:14

Tgt Ion:117 Resp: 6096

Ion	Ratio	Lower	Upper
117	100		
82	41.3	38.3	57.5
119	33.2	26.0	39.0

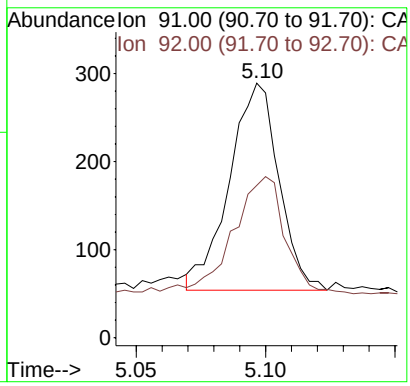


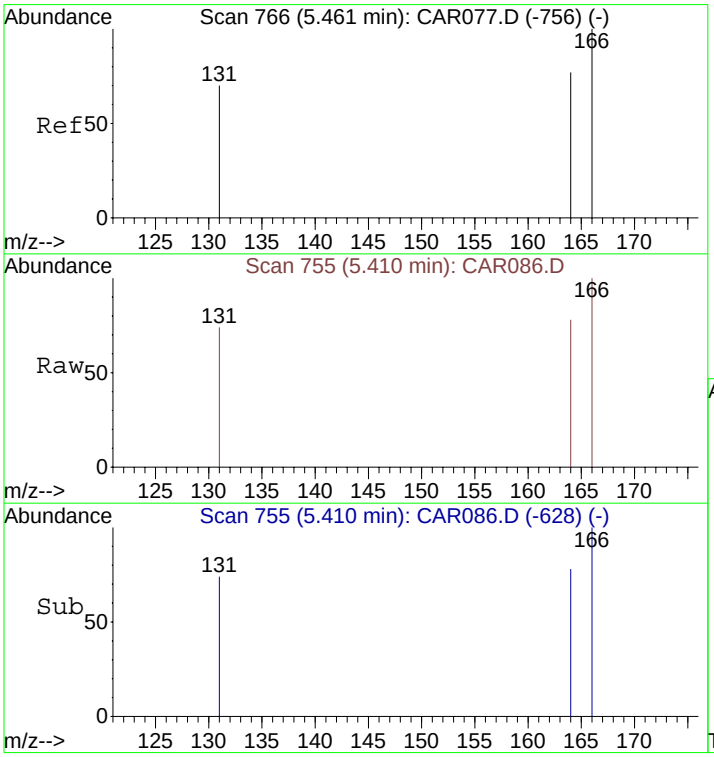


#13
Toluene
Concen: 6.97 ppbv
RT: 5.10 min Scan# 673
Delta R.T. -0.01 min
Lab File: CAR086.D
Acq: 17 Sep 2008 11:14

Tgt Ion: 91 Resp: 313

Ion	Ratio	Lower	Upper
91	100		
92	57.5	48.2	72.2

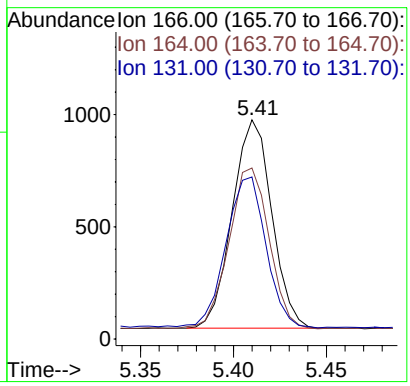




#14
Tetrachloroethene
Concen: 53.32 ppbv
RT: 5.41 min Scan# 755
Delta R.T. -0.01 min
Lab File: CAR086.D
Acq: 17 Sep 2008 11:14

Tgt Ion:166 Resp: 1373

Ion	Ratio	Lower	Upper
166	100		
164	78.2	63.1	94.7
131	73.4	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR087.D Vial: 1
Acq On : 17 Sep 2008 11:25 Operator: dlm
Sample : 51415\A6-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 11:33:36 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1882	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	5979	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.79	117	6009	10.00 ppbv	0.00

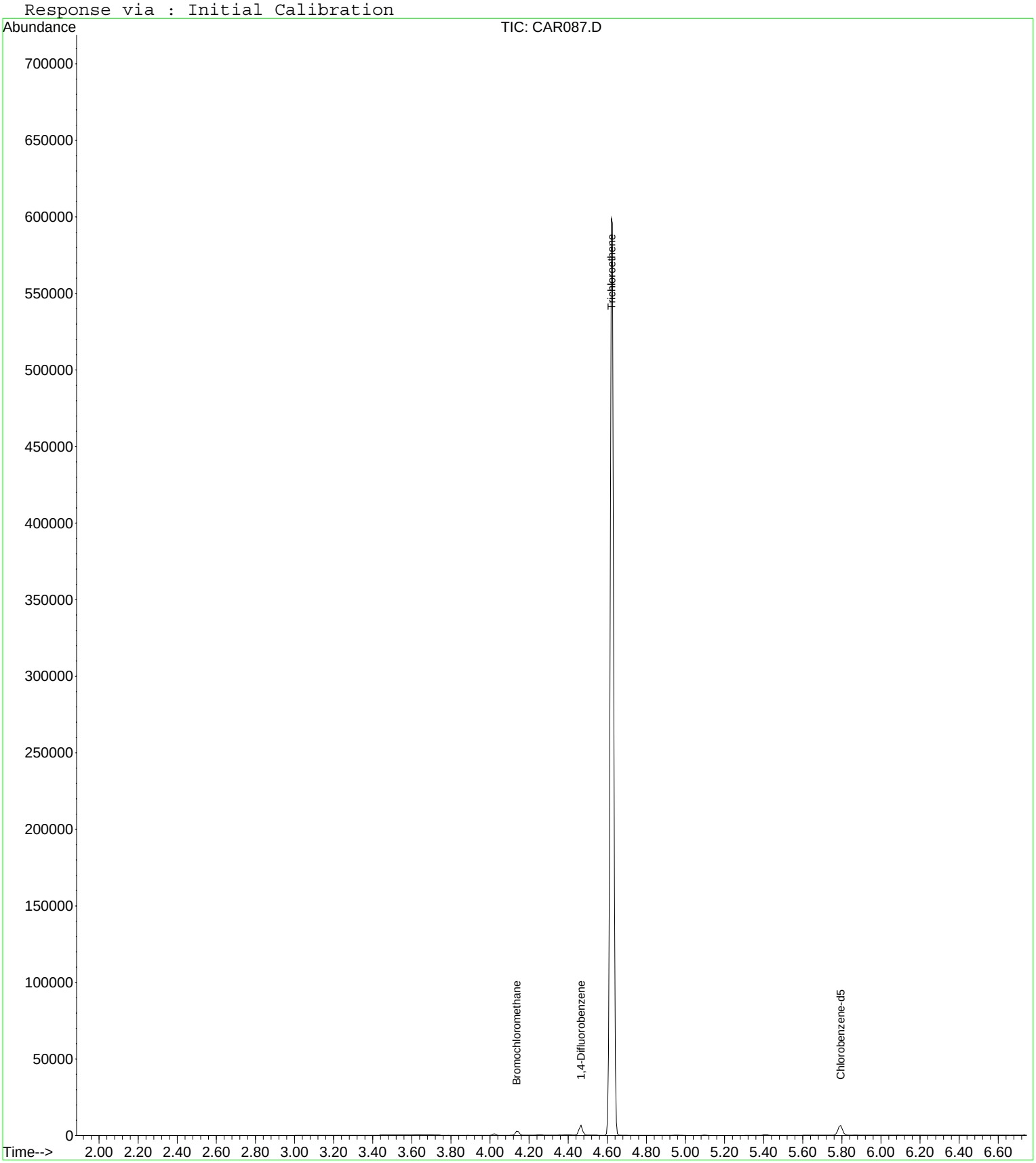
Target Compounds					Qvalue
5) trans-1,2-Dichloroethene	3.62	61	258	15.52 ppbv #	1
7) cis-1,2-Dichloroethene	4.02	61	533	32.72 ppbv	87
8) 1,1,1-Trichloroethane	4.26	97	262	10.39 ppbv #	86
10) Benzene	4.40	78	298m	8.60 ppbv	
11) Trichloroethene	4.62	130	281708	13814.64 ppbv	92
13) Toluene	5.10	91	246	5.56 ppbv	94
14) Tetrachloroethene	5.41	166	436	17.18 ppbv	98

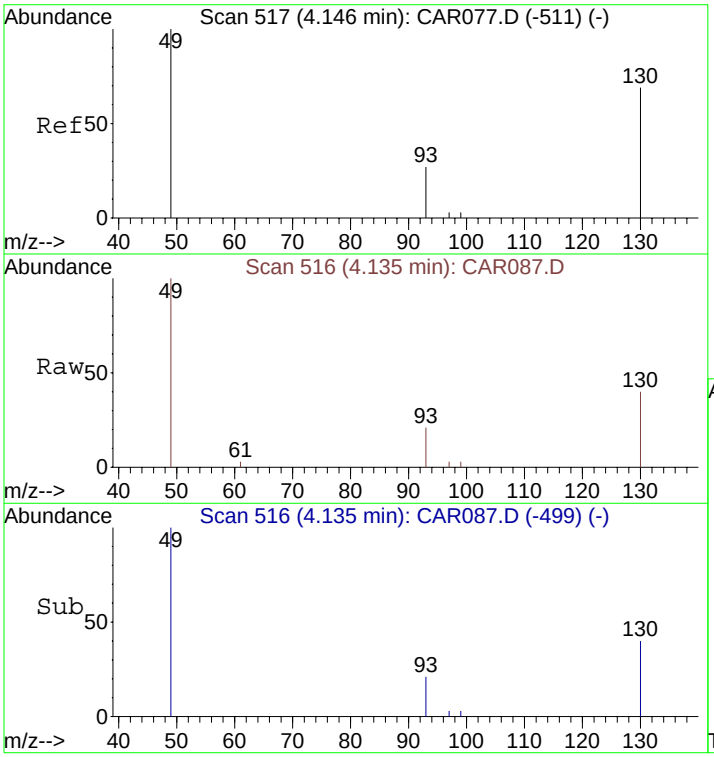
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR087.D Vial: 1
Acq On : 17 Sep 2008 11:25 Operator: dlm
Sample : 51415\A6-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 11:34 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

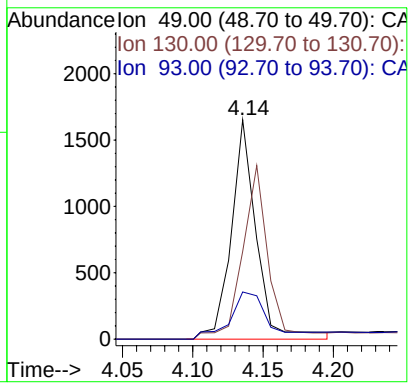


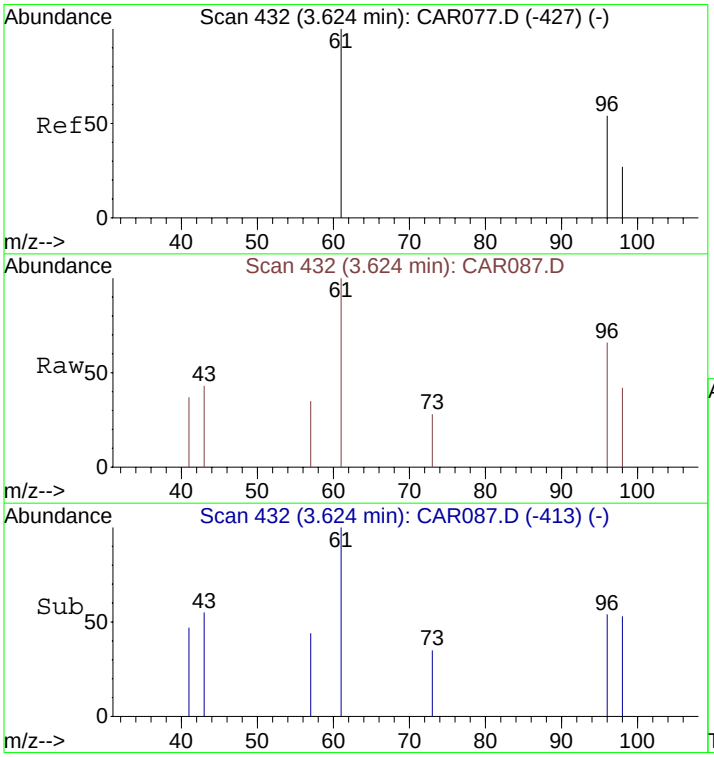


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR087.D
Acq: 17 Sep 2008 11:25

Tgt Ion: 49 Resp: 1882

Ion	Ratio	Lower	Upper
49	100		
130	79.4	65.1	97.7
93	31.0	33.8	50.6#

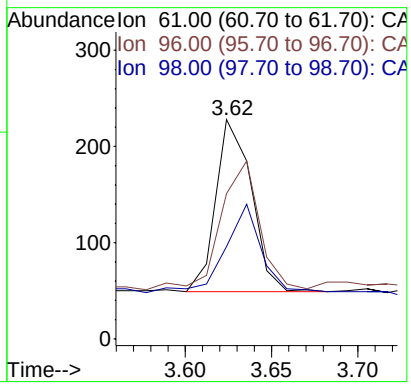


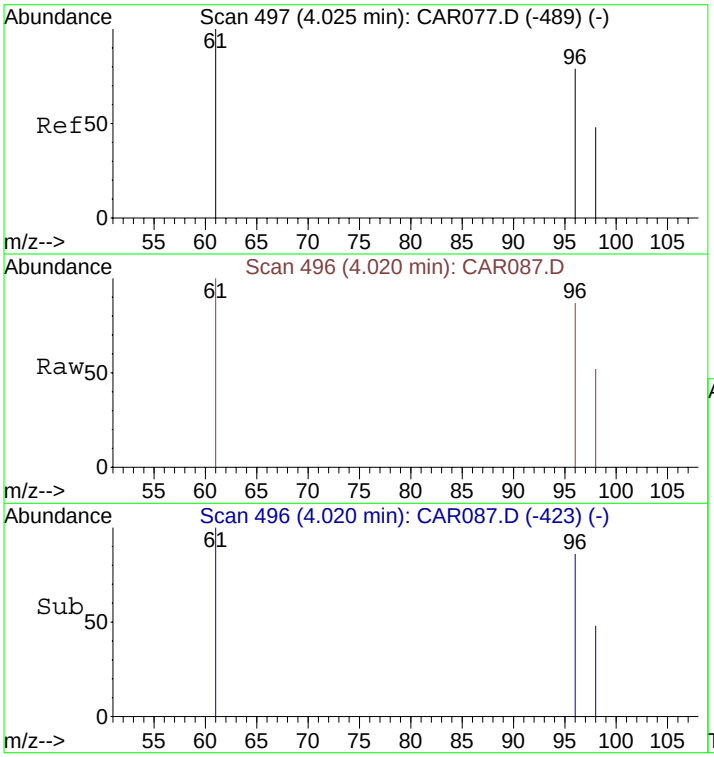


#5
trans-1,2-Dichloroethene
Concen: 15.52 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR087.D
Acq: 17 Sep 2008 11:25

Tgt Ion: 61 Resp: 258

Ion	Ratio	Lower	Upper
61	100		
96	77.1	55.0	82.4
98	198.4	35.6	53.4#

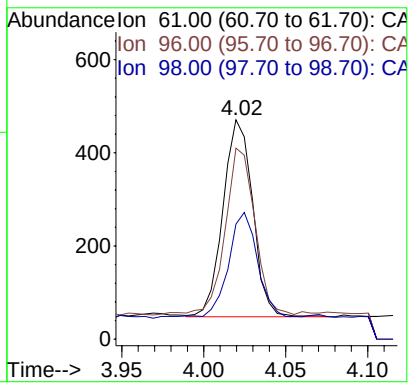


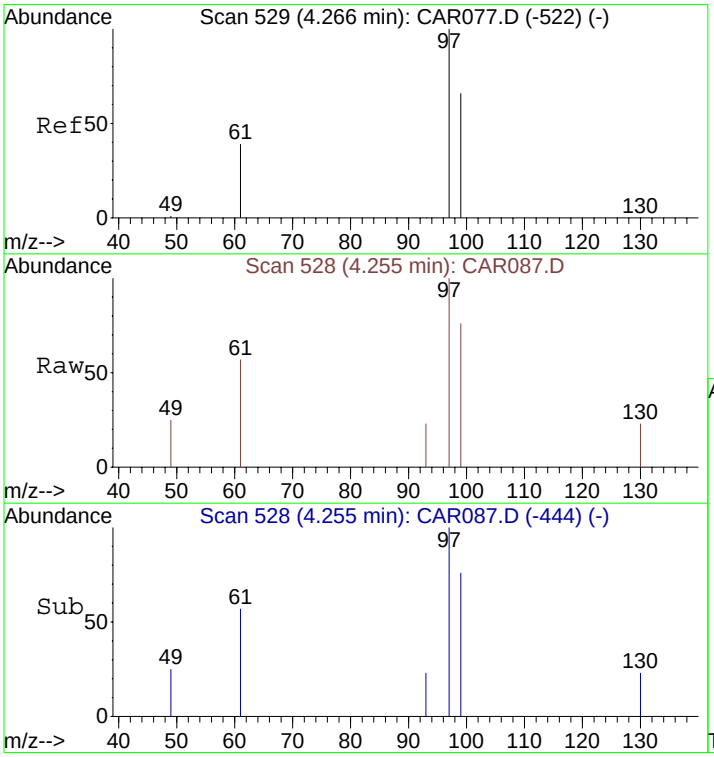


#7
cis-1,2-Dichloroethene
Concen: 32.72 ppbv
RT: 4.02 min Scan# 496
Delta R.T. 0.00 min
Lab File: CAR087.D
Acq: 17 Sep 2008 11:25

Tgt Ion: 61 Resp: 533

Ion	Ratio	Lower	Upper
61	100		
96	83.3	56.0	84.0
98	50.8	36.2	54.4

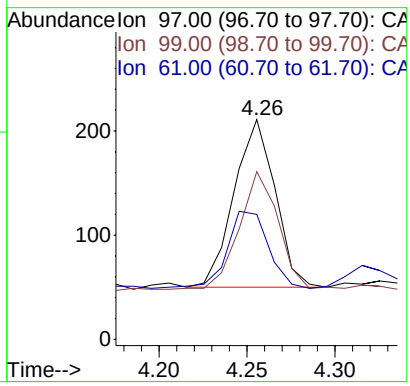


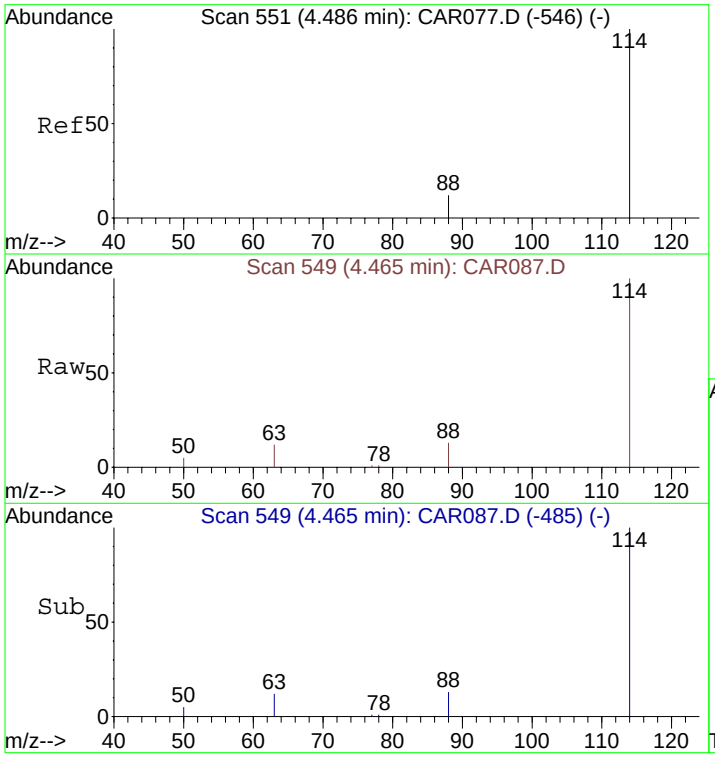


#8
1,1,1-Trichloroethane
Concen: 10.39 ppbv
RT: 4.26 min Scan# 528
Delta R.T. 0.00 min
Lab File: CAR087.D
Acq: 17 Sep 2008 11:25

Tgt Ion: 97 Resp: 262

Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.8	77.8
61	63.0	32.1	48.1#

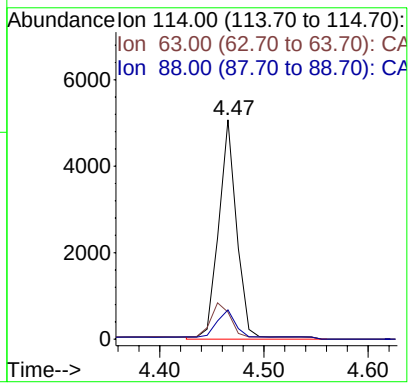


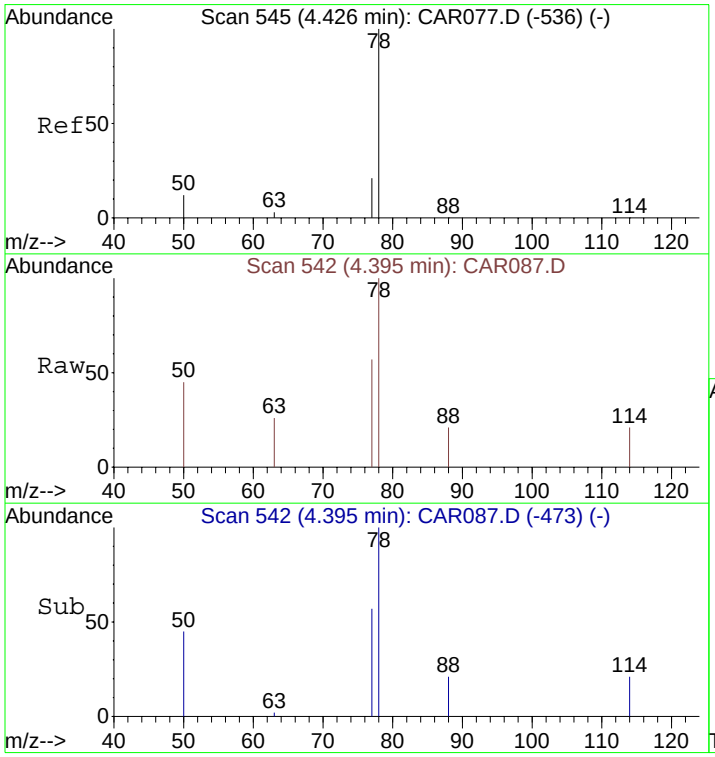


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. 0.00 min
Lab File: CAR087.D
Acq: 17 Sep 2008 11:25

Tgt Ion:114 Resp: 5979

Ion	Ratio	Lower	Upper
114	100		
63	17.6	15.8	23.8
88	13.7	12.2	18.2

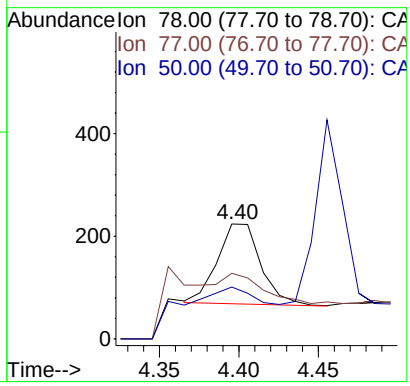


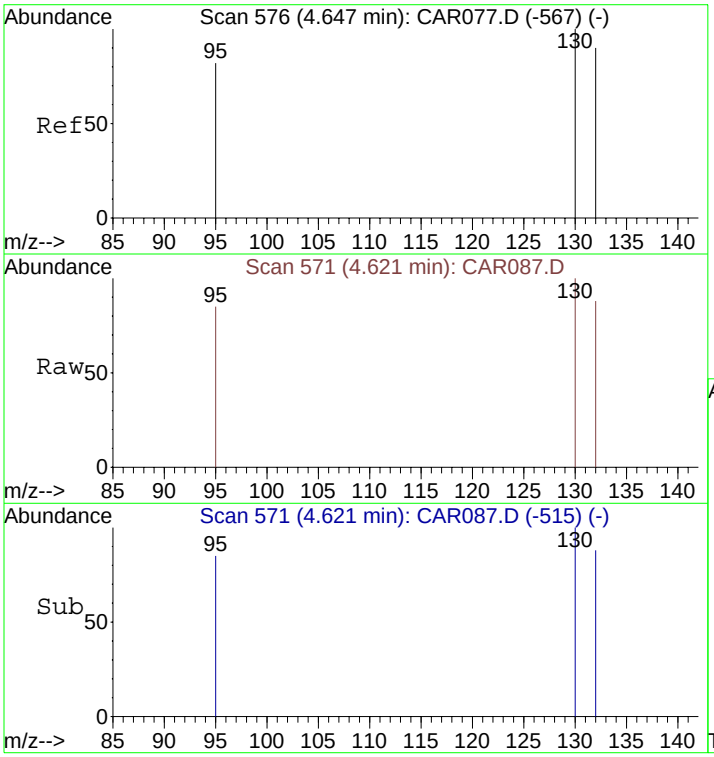


#10
Benzene
Concen: 8.60 ppbv m
RT: 4.40 min Scan# 542
Delta R.T. -0.01 min
Lab File: CAR087.D
Acq: 17 Sep 2008 11:25

Tgt Ion: 78 Resp: 298

Ion	Ratio	Lower	Upper
78	100		
77	70.8	18.6	28.0#
50	127.5	16.2	24.4#

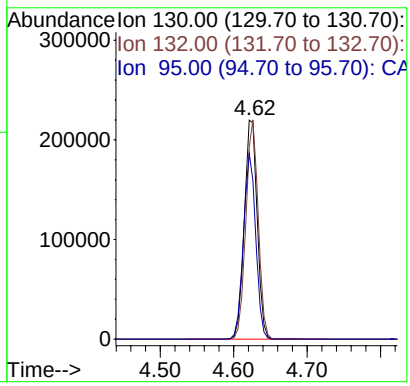


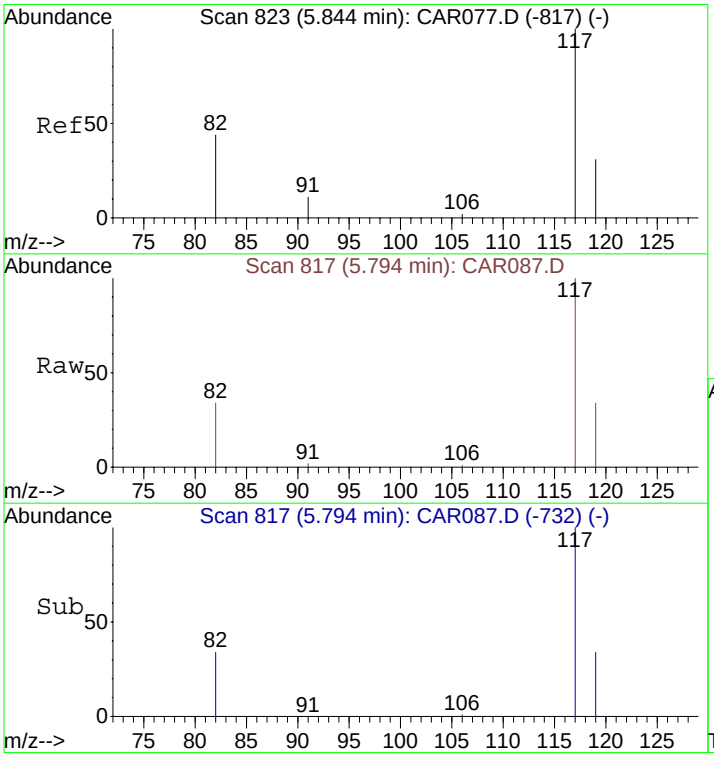


#11
Trichloroethene
Concen: 13814.64 ppbv
RT: 4.62 min Scan# 571
Delta R.T. -0.00 min
Lab File: CAR087.D
Acq: 17 Sep 2008 11:25

Tgt Ion:130 Resp: 281708

Ion	Ratio	Lower	Upper
130	100		
132	91.0	73.8	110.6
95	76.8	72.5	108.7

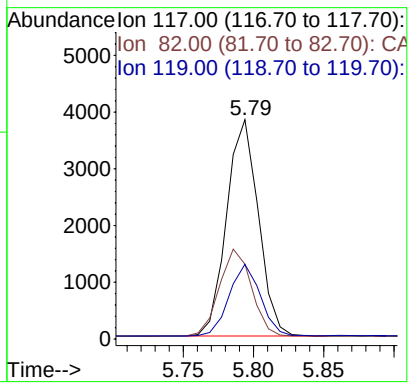


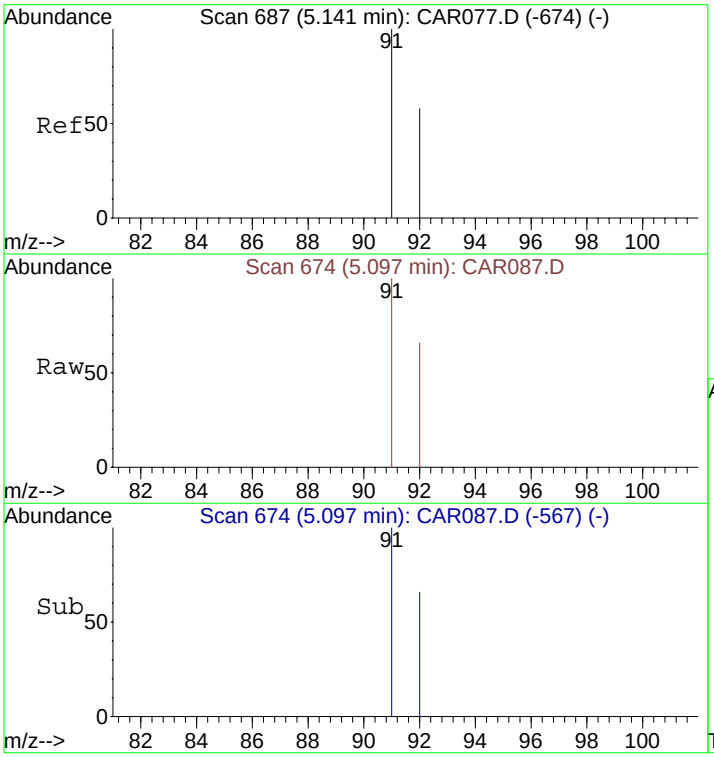


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.79 min Scan# 817
Delta R.T. 0.00 min
Lab File: CAR087.D
Acq: 17 Sep 2008 11:25

Tgt Ion:117 Resp: 6009

Ion	Ratio	Lower	Upper
117	100		
82	42.0	38.3	57.5
119	32.7	26.0	39.0

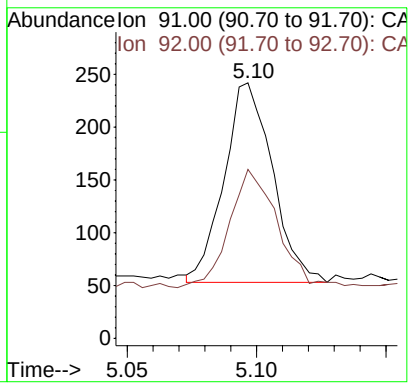


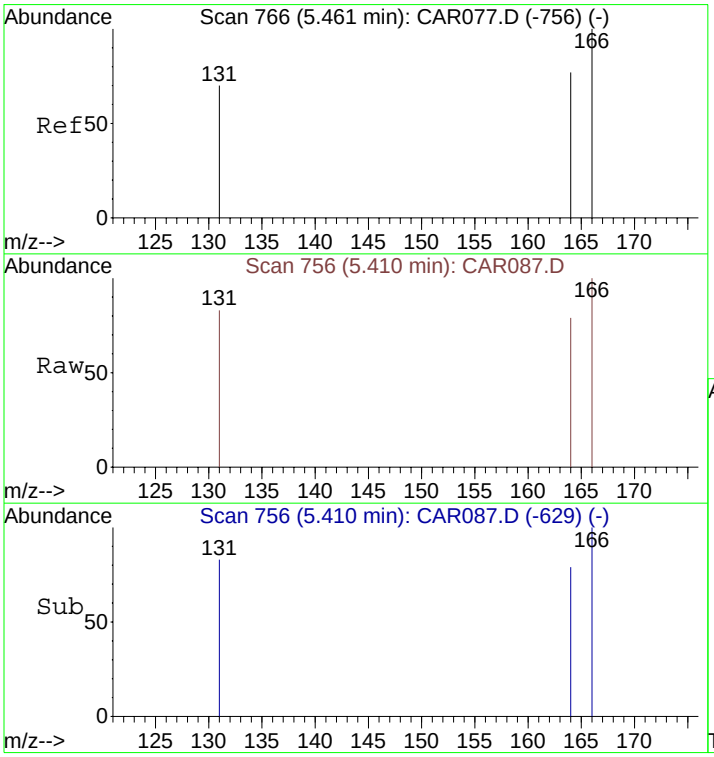


#13
Toluene
Concen: 5.56 ppbv
RT: 5.10 min Scan# 674
Delta R.T. -0.01 min
Lab File: CAR087.D
Acq: 17 Sep 2008 11:25

Tgt Ion: 91 Resp: 246

Ion	Ratio	Lower	Upper
91	100		
92	55.7	48.2	72.2

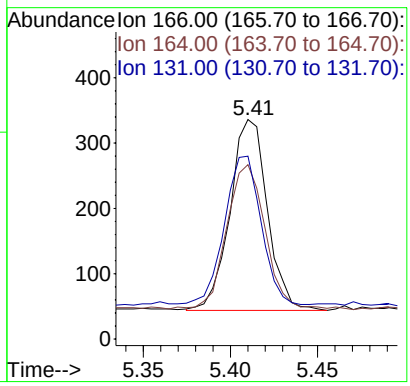




#14
Tetrachloroethene
Concen: 17.18 ppbv
RT: 5.41 min Scan# 756
Delta R.T. -0.00 min
Lab File: CAR087.D
Acq: 17 Sep 2008 11:25

Tgt Ion:166 Resp: 436

Ion	Ratio	Lower	Upper
166	100		
164	78.9	63.1	94.7
131	75.7	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR088.D Vial: 1
Acq On : 17 Sep 2008 11:39 Operator: dlm
Sample : 51416\A7-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 11:46:31 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	2009	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	6540	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.79	117	6046	10.00 ppbv	0.00

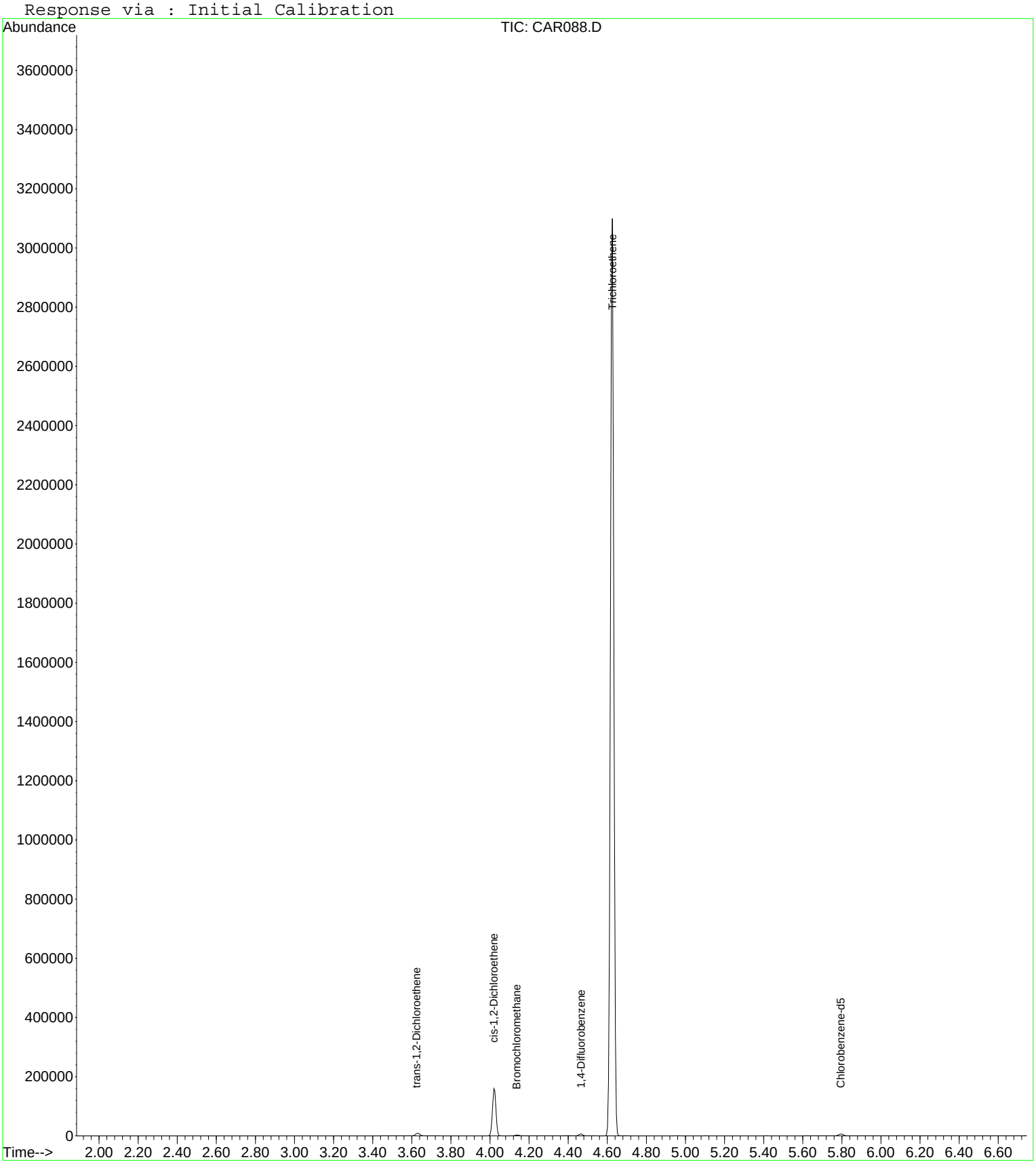
Target Compounds					Qvalue
5) trans-1,2-Dichloroethene	3.62	61	5776	325.57 ppbv	96
7) cis-1,2-Dichloroethene	4.02	61	85509	4916.96 ppbv	88
10) Benzene	4.41	78	352m	9.29 ppbv	
11) Trichloroethene	4.63	130	1413758	63382.04 ppbv	92
13) Toluene	5.10	91	252	5.66 ppbv	99
14) Tetrachloroethene	5.42	166	167	6.54 ppbv	94

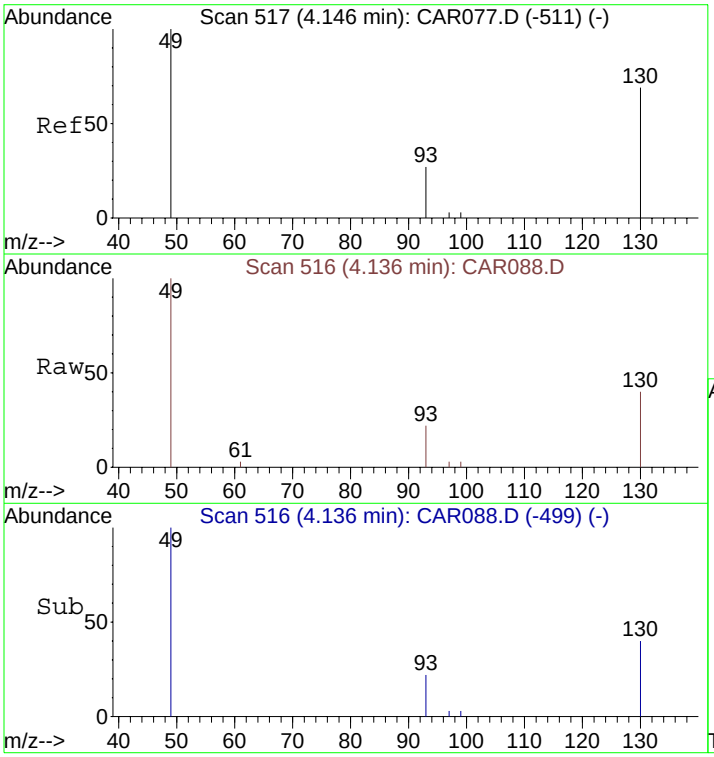
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR088.D Vial: 1
Acq On : 17 Sep 2008 11:39 Operator: dlm
Sample : 51416\A7-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 11:48 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

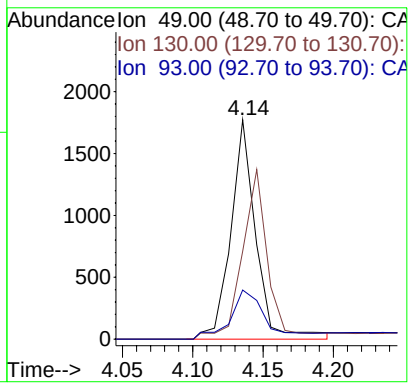


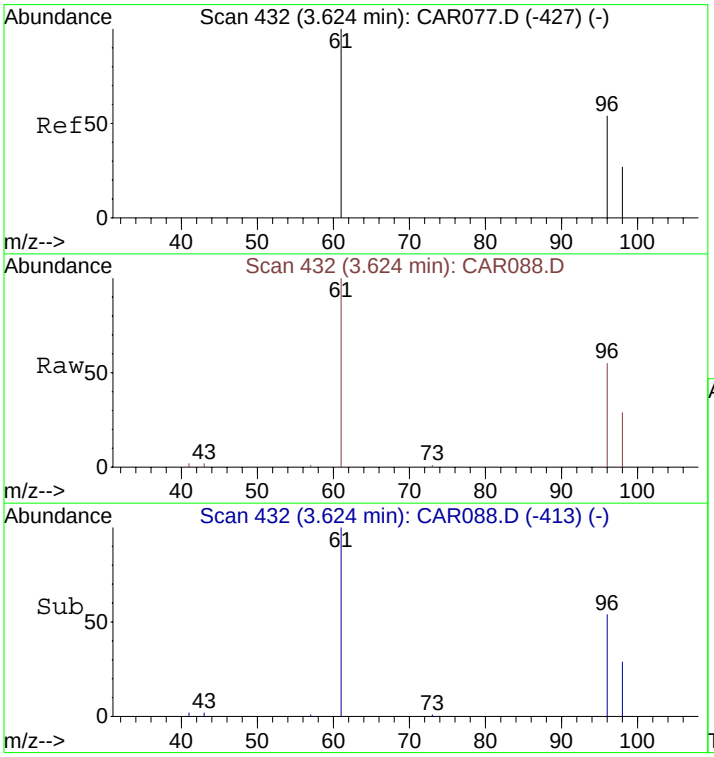


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR088.D
Acq: 17 Sep 2008 11:39

Tgt Ion: 49 Resp: 2009

Ion	Ratio	Lower	Upper
49	100		
130	77.3	65.1	97.7
93	31.7	33.8	50.6#

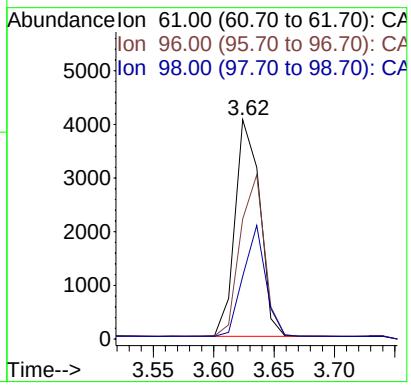


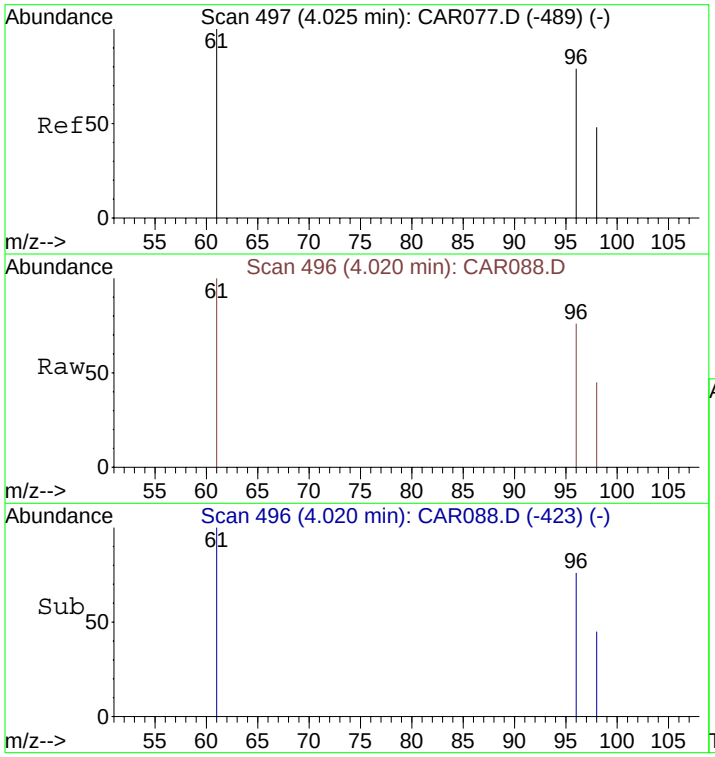


#5
trans-1,2-Dichloroethene
Concen: 325.57 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR088.D
Acq: 17 Sep 2008 11:39

Tgt Ion: 61 Resp: 5776

Ion	Ratio	Lower	Upper
61	100		
96	72.4	55.0	82.4
98	46.5	35.6	53.4

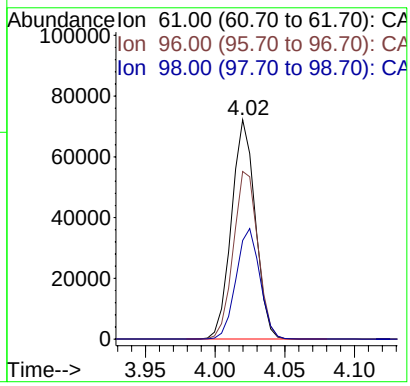


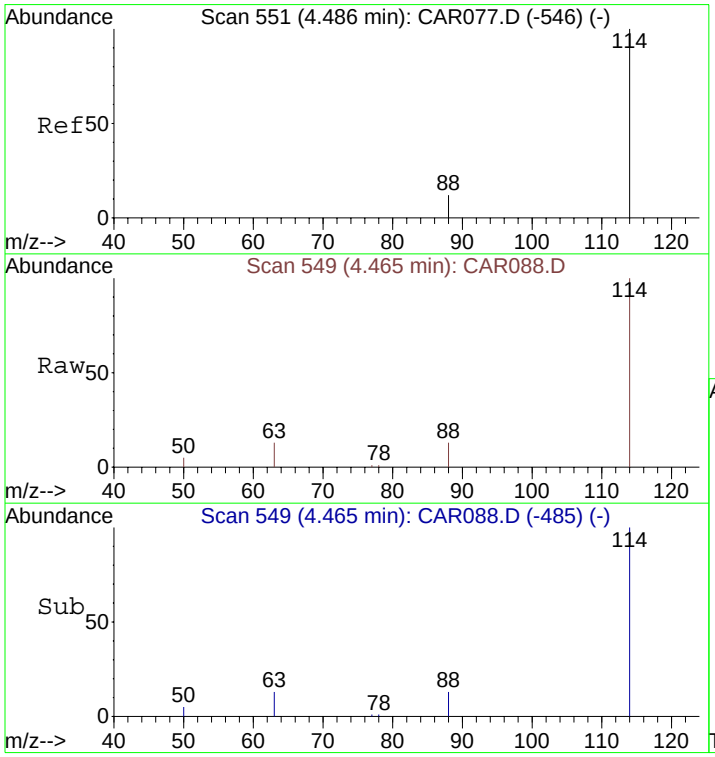


#7
cis-1,2-Dichloroethene
Concen: 4916.96 ppbv
RT: 4.02 min Scan# 496
Delta R.T. 0.00 min
Lab File: CAR088.D
Acq: 17 Sep 2008 11:39

Tgt Ion: 61 Resp: 85509

Ion	Ratio	Lower	Upper
61	100		
96	82.4	56.0	84.0
98	50.7	36.2	54.4

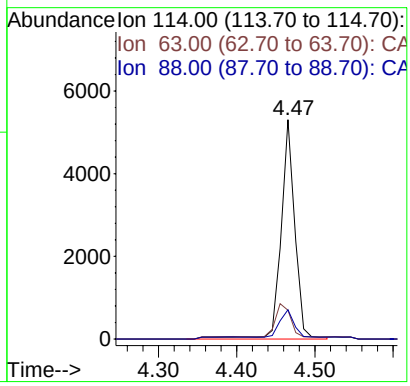


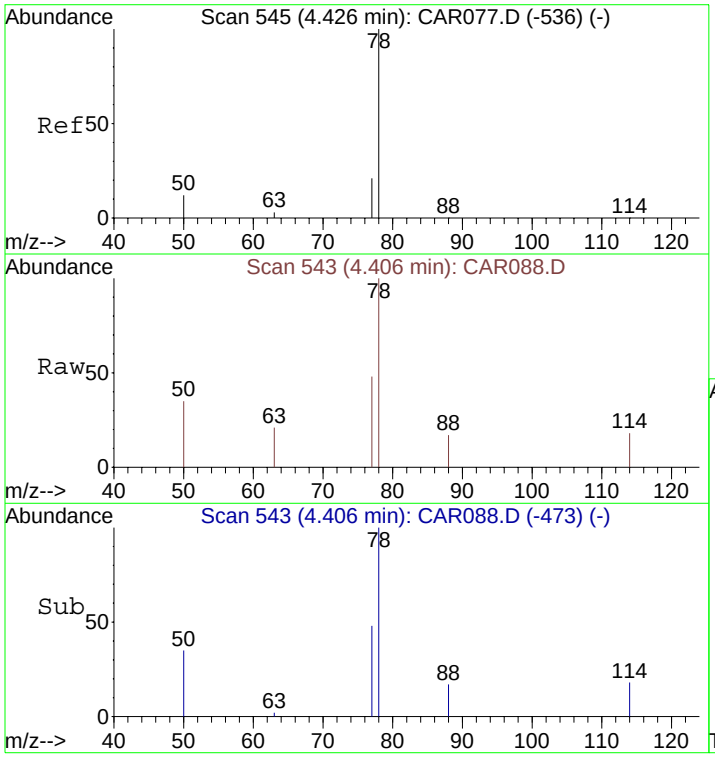


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. 0.00 min
Lab File: CAR088.D
Acq: 17 Sep 2008 11:39

Tgt Ion:114 Resp: 6540

Ion	Ratio	Lower	Upper
114	100		
63	17.1	15.8	23.8
88	13.3	12.2	18.2

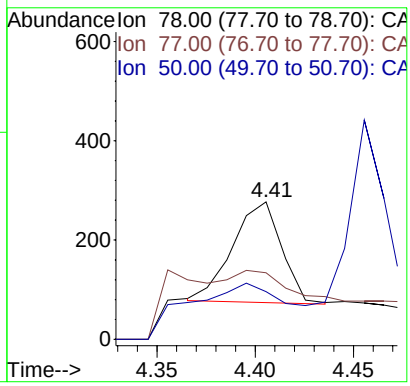


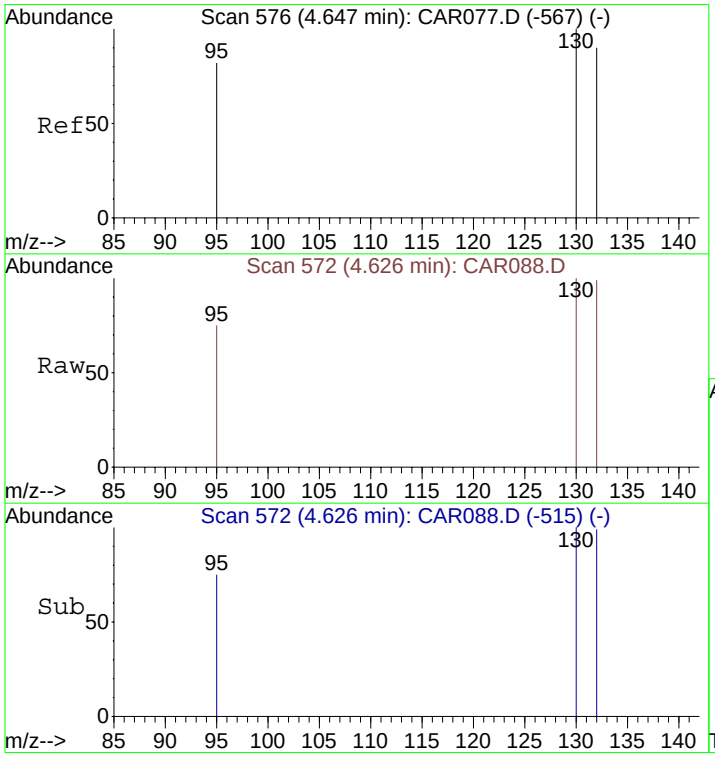


#10
Benzene
Concen: 9.29 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR088.D
Acq: 17 Sep 2008 11:39

Tgt Ion: 78 Resp: 352

Ion	Ratio	Lower	Upper
78	100		
77	63.6	18.6	28.0#
50	113.6	16.2	24.4#

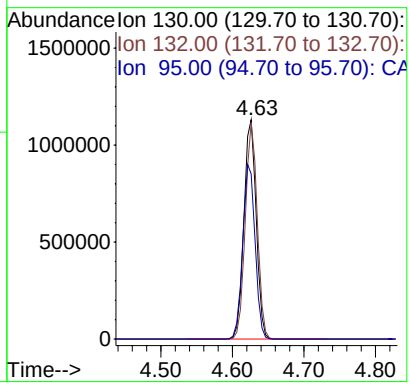


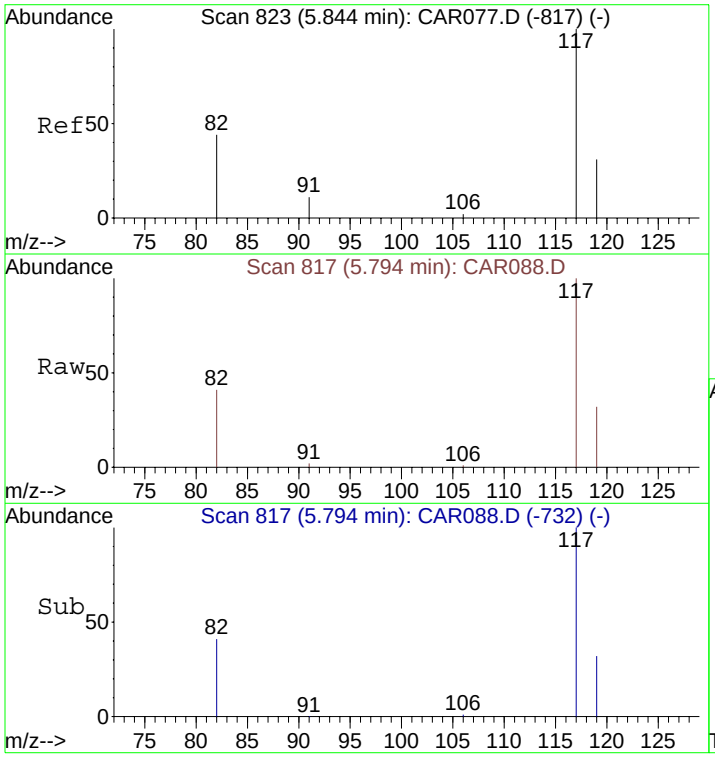


#11
Trichloroethene
Concen: 63382.04 ppbv
RT: 4.63 min Scan# 572
Delta R.T. 0.00 min
Lab File: CAR088.D
Acq: 17 Sep 2008 11:39

Tgt Ion:130 Resp: 1413758

Ion	Ratio	Lower	Upper
130	100		
132	96.0	73.8	110.6
95	80.0	72.5	108.7

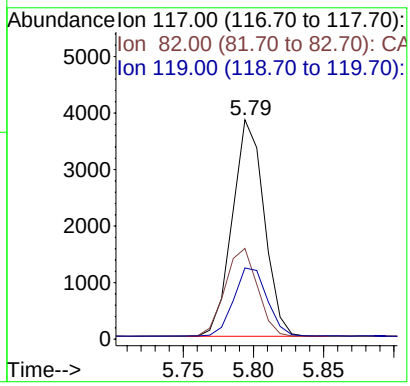


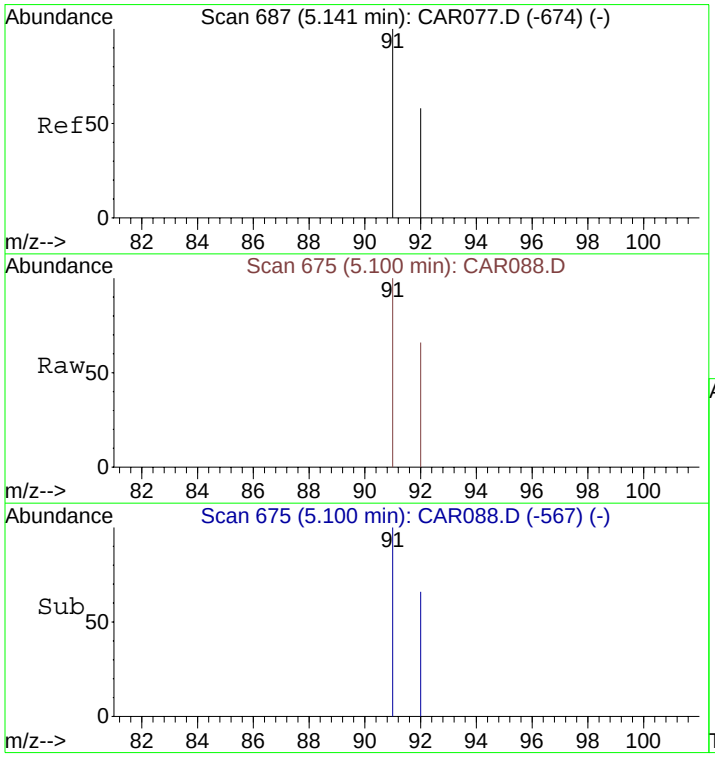


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.79 min Scan# 817
Delta R.T. 0.00 min
Lab File: CAR088.D
Acq: 17 Sep 2008 11:39

Tgt Ion:117 Resp: 6046

Ion	Ratio	Lower	Upper
117	100		
82	41.3	38.3	57.5
119	33.1	26.0	39.0

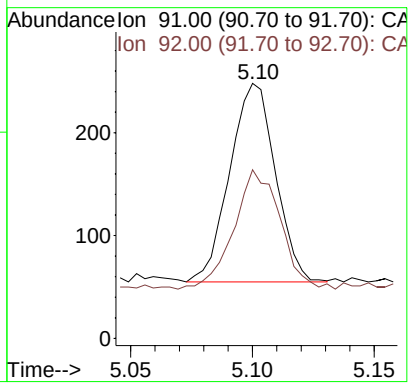


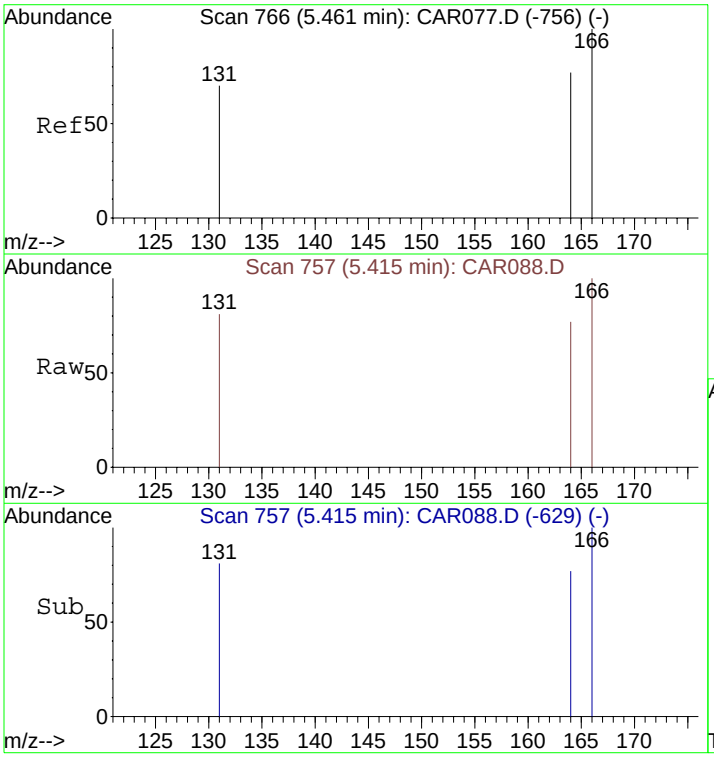


#13
Toluene
Concen: 5.66 ppbv
RT: 5.10 min Scan# 675
Delta R.T. -0.00 min
Lab File: CAR088.D
Acq: 17 Sep 2008 11:39

Tgt Ion: 91 Resp: 252

Ion	Ratio	Lower	Upper
91	100		
92	60.7	48.2	72.2

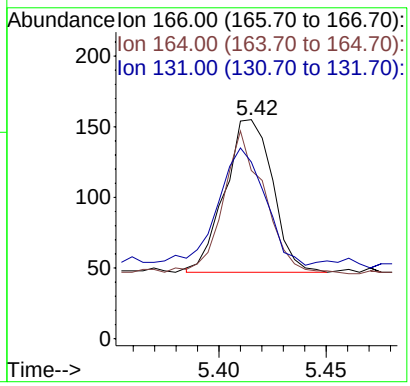




#14
Tetrachloroethene
Concen: 6.54 ppbv
RT: 5.42 min Scan# 757
Delta R.T. 0.00 min
Lab File: CAR088.D
Acq: 17 Sep 2008 11:39

Tgt Ion:166 Resp: 167

Ion	Ratio	Lower	Upper
166	100		
164	80.2	63.1	94.7
131	70.1	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR089.D Vial: 1
Acq On : 17 Sep 2008 11:53 Operator: dlm
Sample : 51417\A8-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 12:01:04 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1896	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	5821	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.79	117	5540	10.00 ppbv	0.00

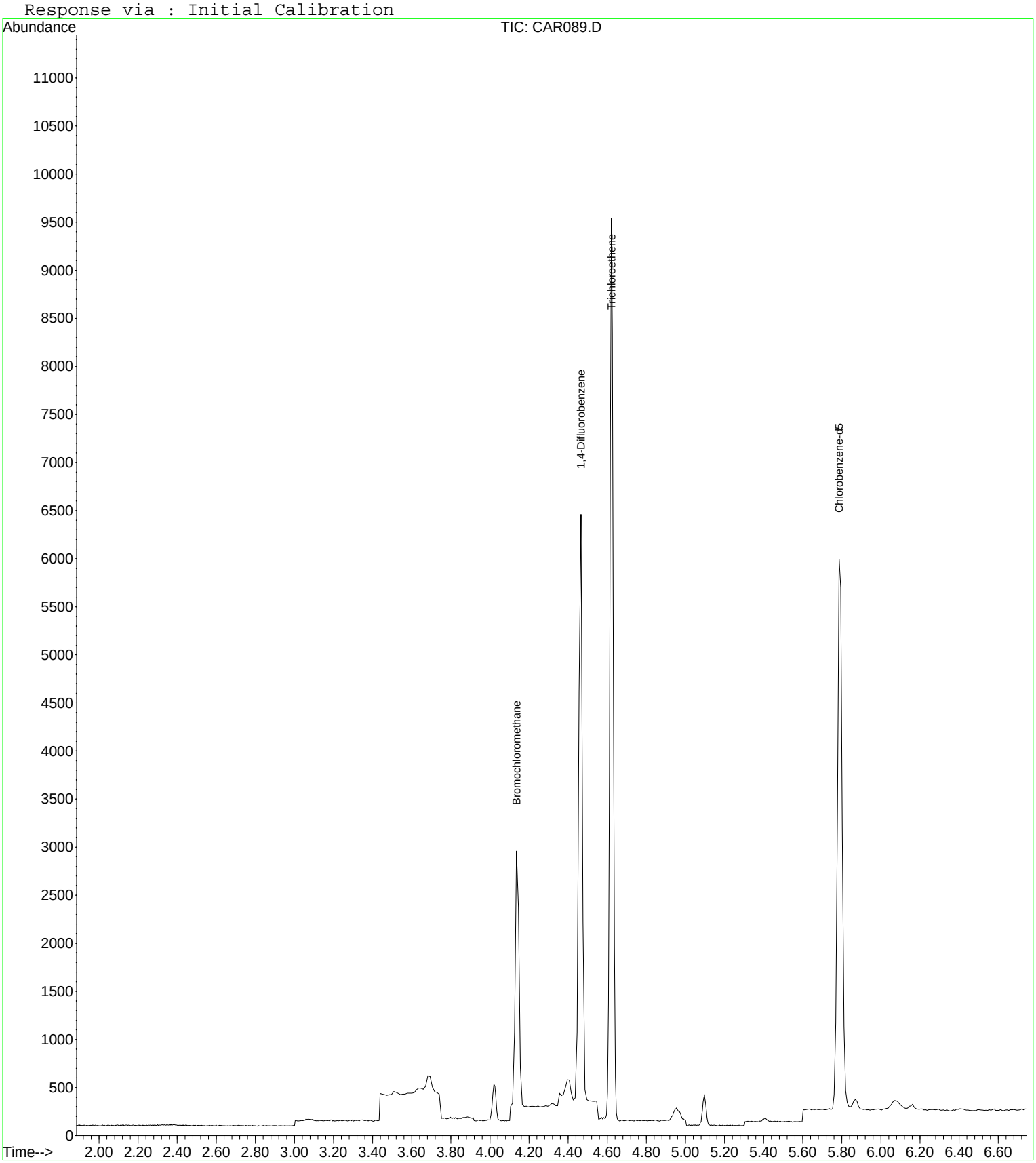
Target Compounds					Qvalue
7) cis-1,2-Dichloroethene	4.02	61	220	13.40 ppbv #	76
10) Benzene	4.40	78	243m	7.20 ppbv	
11) Trichloroethene	4.62	130	4118	207.42 ppbv #	85
13) Toluene	5.10	91	248	6.08 ppbv	95

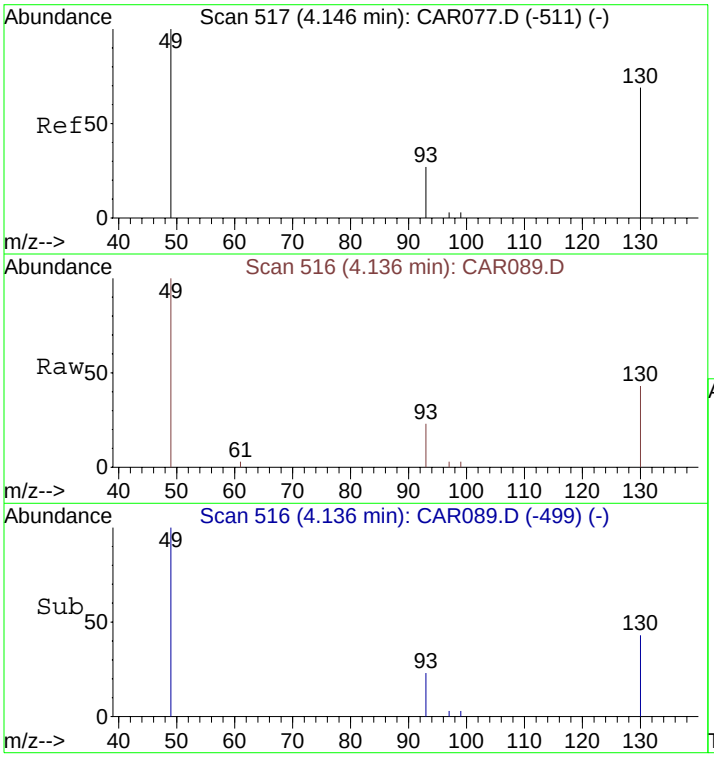
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR089.D Vial: 1
Acq On : 17 Sep 2008 11:53 Operator: dlm
Sample : 51417\A8-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 12:03 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

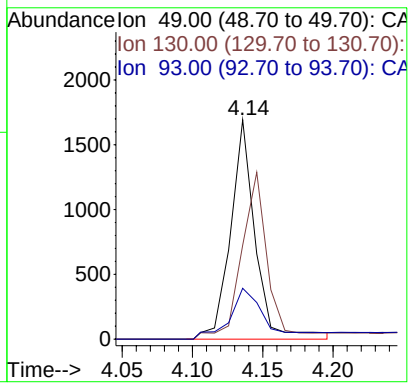


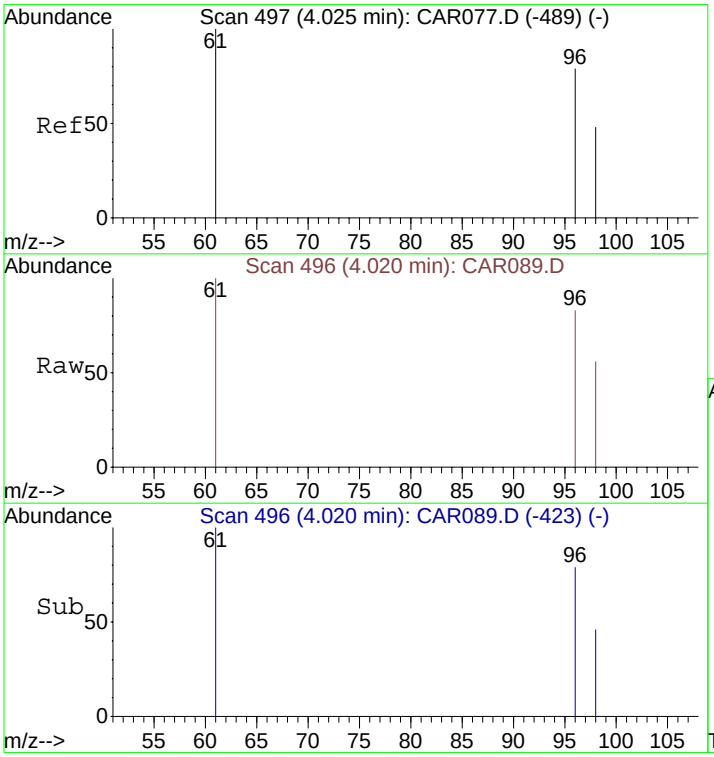


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR089.D
Acq: 17 Sep 2008 11:53

Tgt Ion: 49 Resp: 1896

Ion	Ratio	Lower	Upper
49	100		
130	78.5	65.1	97.7
93	34.5	33.8	50.6

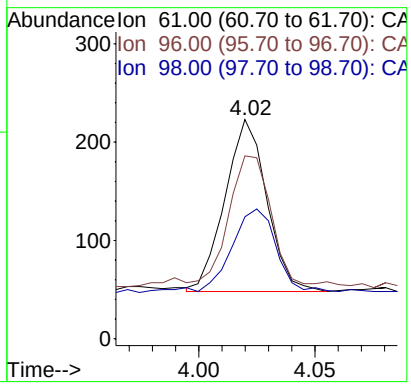


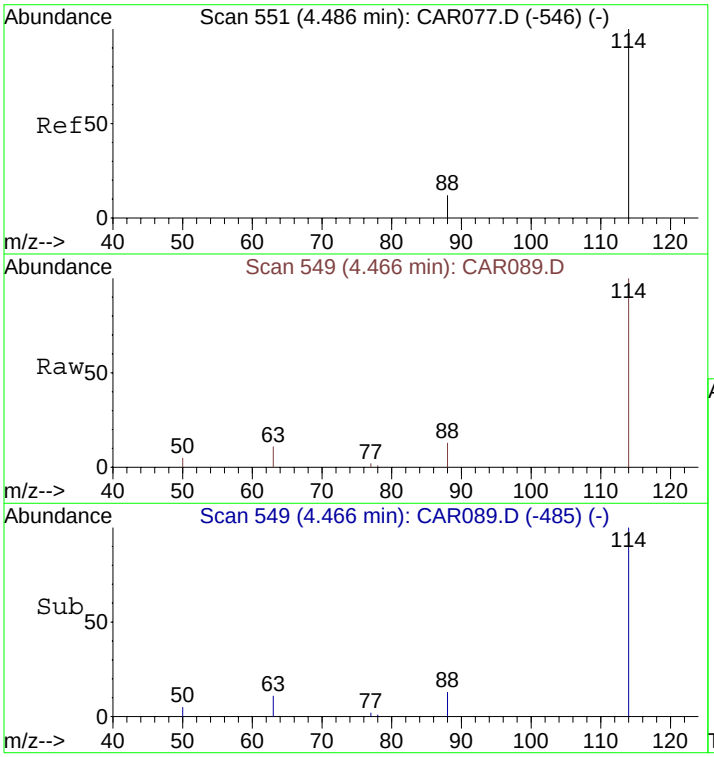


#7
cis-1,2-Dichloroethene
Concen: 13.40 ppbv
RT: 4.02 min Scan# 496
Delta R.T. 0.00 min
Lab File: CAR089.D
Acq: 17 Sep 2008 11:53

Tgt Ion: 61 Resp: 220

Ion	Ratio	Lower	Upper
61	100		
96	99.1	56.0	84.0#
98	49.5	36.2	54.4

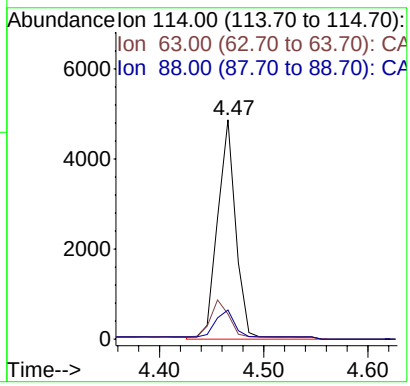


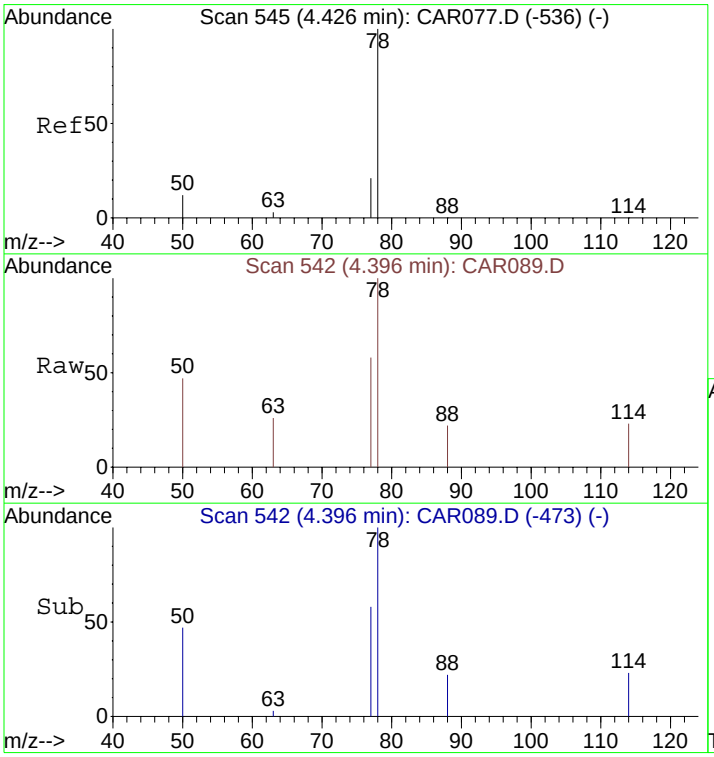


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. 0.00 min
Lab File: CAR089.D
Acq: 17 Sep 2008 11:53

Tgt Ion:114 Resp: 5821

Ion	Ratio	Lower	Upper
114	100		
63	22.5	15.8	23.8
88	18.0	12.2	18.2

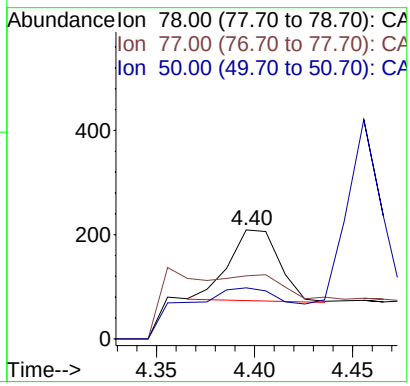


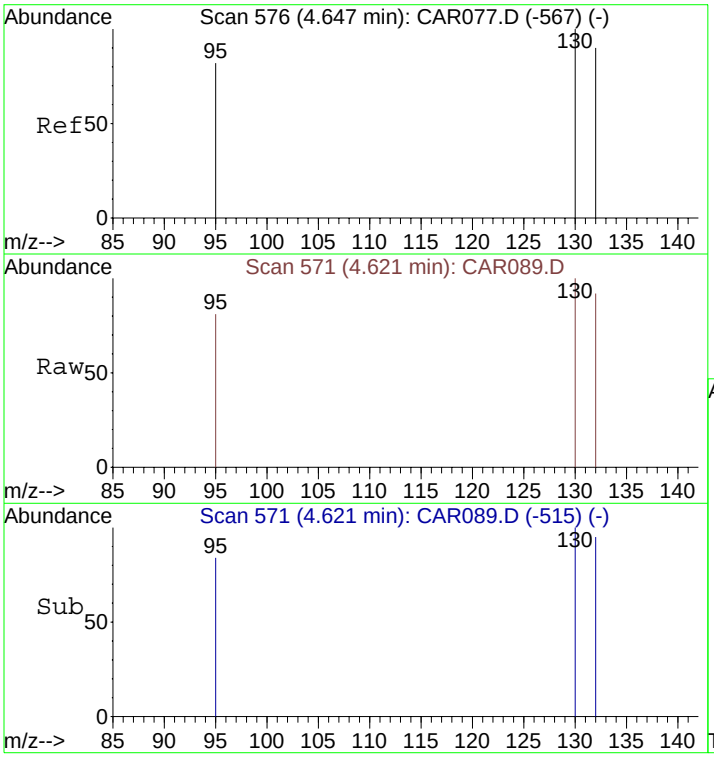


#10
Benzene
Concen: 7.20 ppbv m
RT: 4.40 min Scan# 542
Delta R.T. -0.01 min
Lab File: CAR089.D
Acq: 17 Sep 2008 11:53

Tgt Ion: 78 Resp: 243

Ion	Ratio	Lower	Upper
78	100		
77	90.1	18.6	28.0#
50	156.0	16.2	24.4#

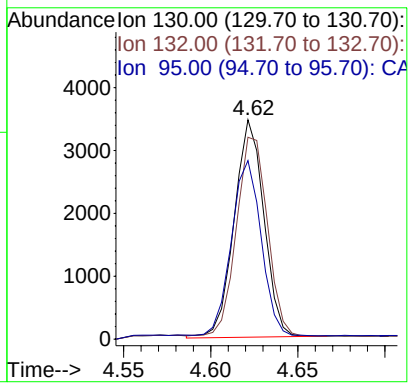


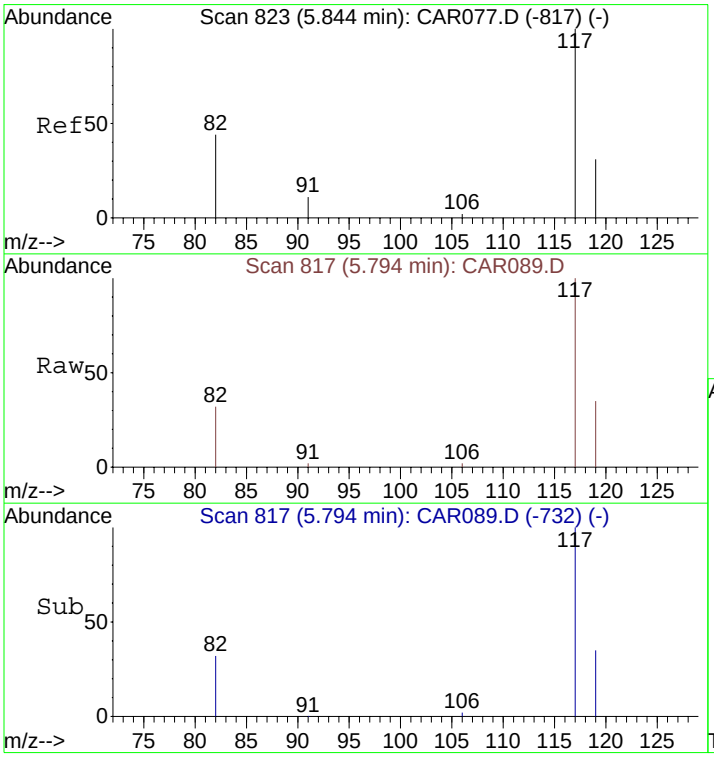


#11
Trichloroethene
Concen: 207.42 ppbv
RT: 4.62 min Scan# 571
Delta R.T. -0.00 min
Lab File: CAR089.D
Acq: 17 Sep 2008 11:53

Tgt Ion:130 Resp: 4118

Ion	Ratio	Lower	Upper
130	100		
132	111.8	73.8	110.6#
95	81.9	72.5	108.7

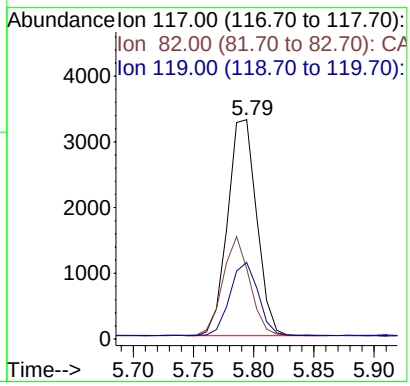


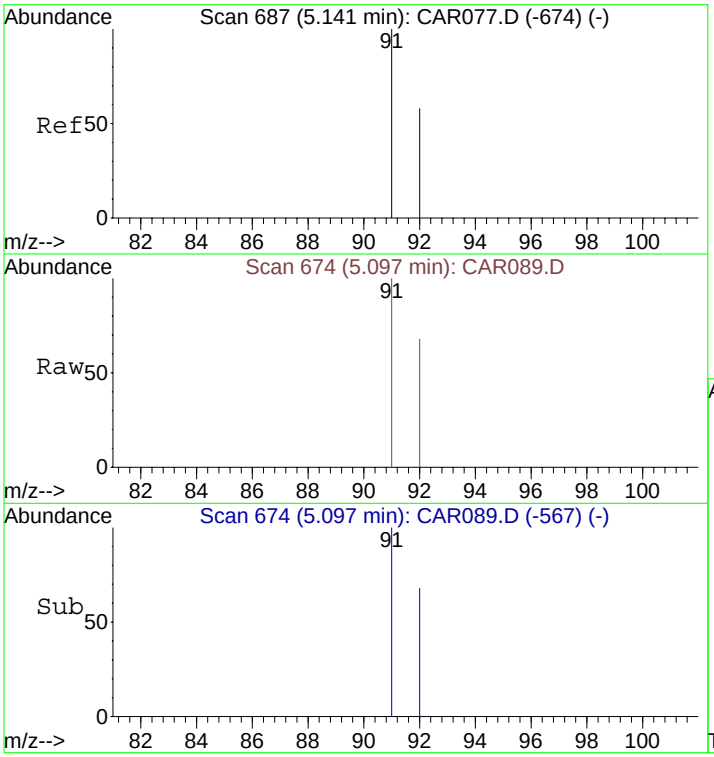


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.79 min Scan# 817
Delta R.T. 0.00 min
Lab File: CAR089.D
Acq: 17 Sep 2008 11:53

Tgt Ion:117 Resp: 5540

Ion	Ratio	Lower	Upper
117	100		
82	42.3	38.3	57.5
119	32.9	26.0	39.0

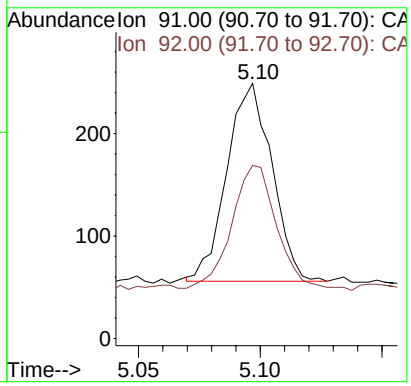




#13
Toluene
Concen: 6.08 ppbv
RT: 5.10 min Scan# 674
Delta R.T. -0.01 min
Lab File: CAR089.D
Acq: 17 Sep 2008 11:53

Tgt Ion: 91 Resp: 248

Ion	Ratio	Lower	Upper
91	100		
92	63.7	48.2	72.2



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR090.D Vial: 1
Acq On : 17 Sep 2008 12:05 Operator: dlm
Sample : 51418\A9-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 12:13:24 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.13	49	1796	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	5707	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.81	117	5561	10.00 ppbv	0.02

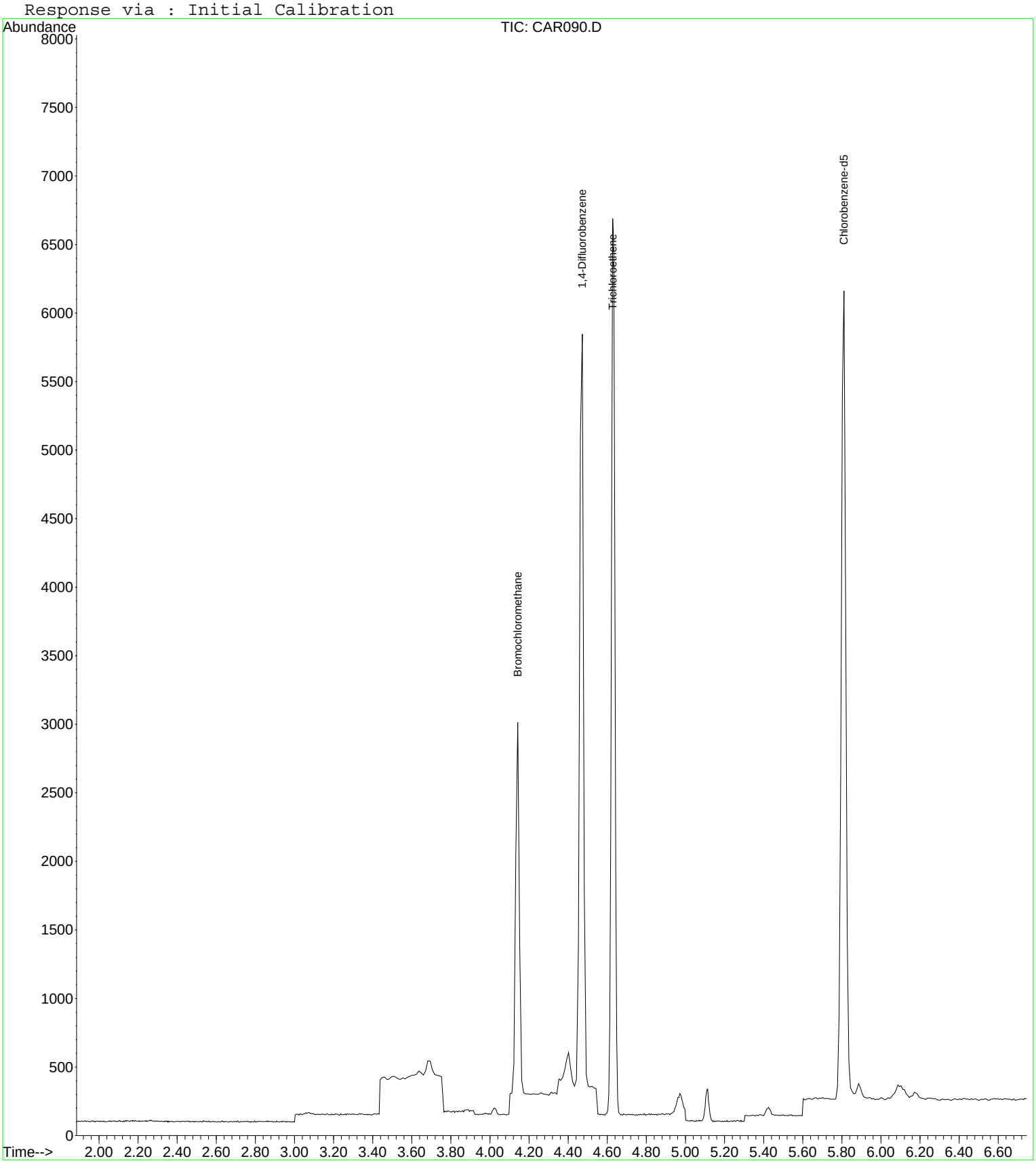
Target Compounds					Qvalue
10) Benzene	4.40	78	289m	8.74 ppbv	
11) Trichloroethene	4.63	130	2966	152.38 ppbv	92

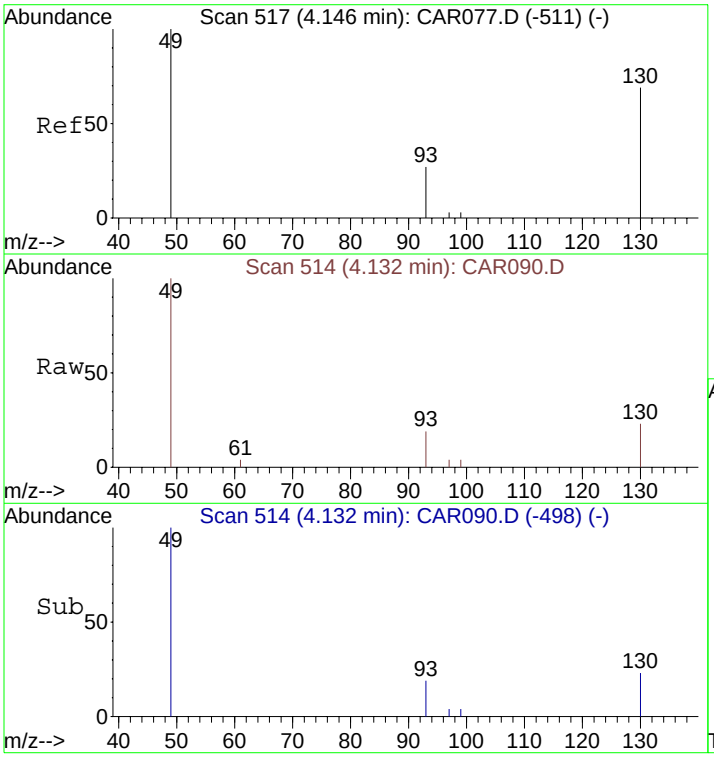
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR090.D Vial: 1
Acq On : 17 Sep 2008 12:05 Operator: dlm
Sample : 51418\A9-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 12:14 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

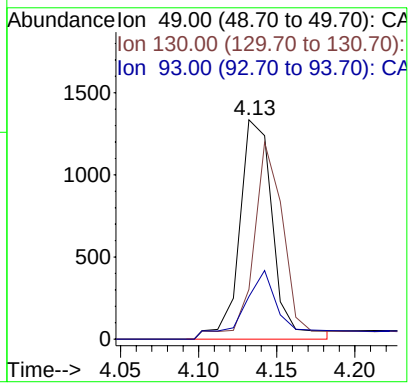


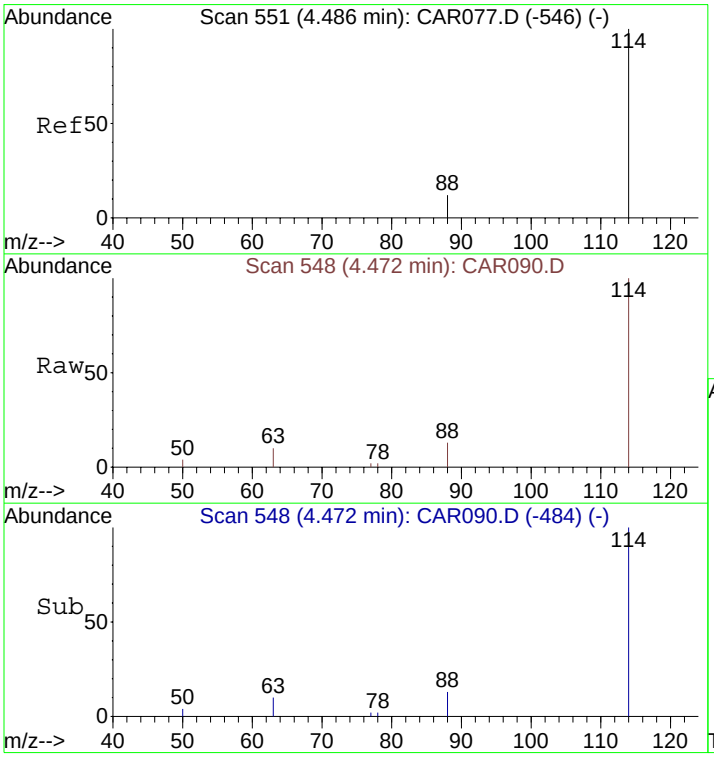


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.13 min Scan# 514
Delta R.T. -0.00 min
Lab File: CAR090.D
Acq: 17 Sep 2008 12:05

Tgt Ion: 49 Resp: 1796

Ion	Ratio	Lower	Upper
49	100		
130	84.2	65.1	97.7
93	36.9	33.8	50.6

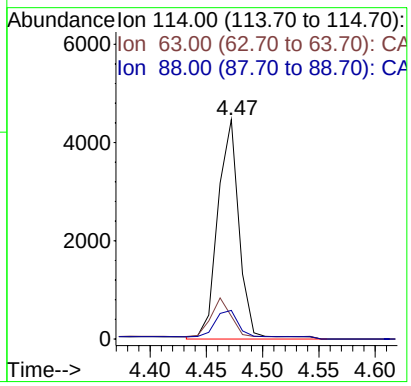


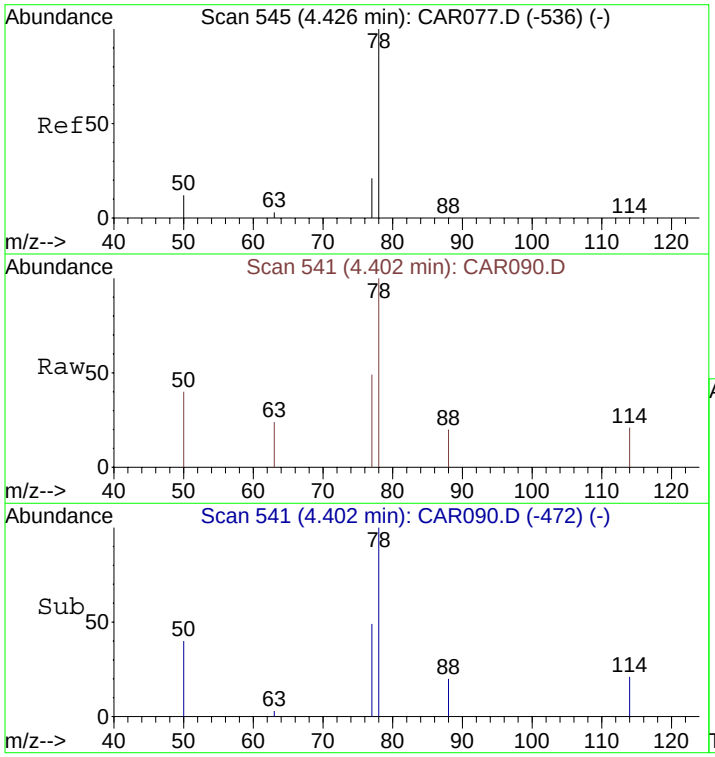


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 548
Delta R.T. 0.01 min
Lab File: CAR090.D
Acq: 17 Sep 2008 12:05

Tgt Ion:114 Resp: 5707

Ion	Ratio	Lower	Upper
114	100		
63	18.0	15.8	23.8
88	17.8	12.2	18.2

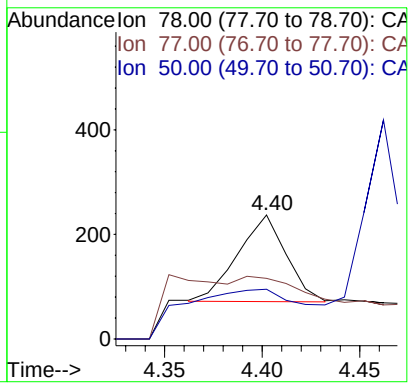


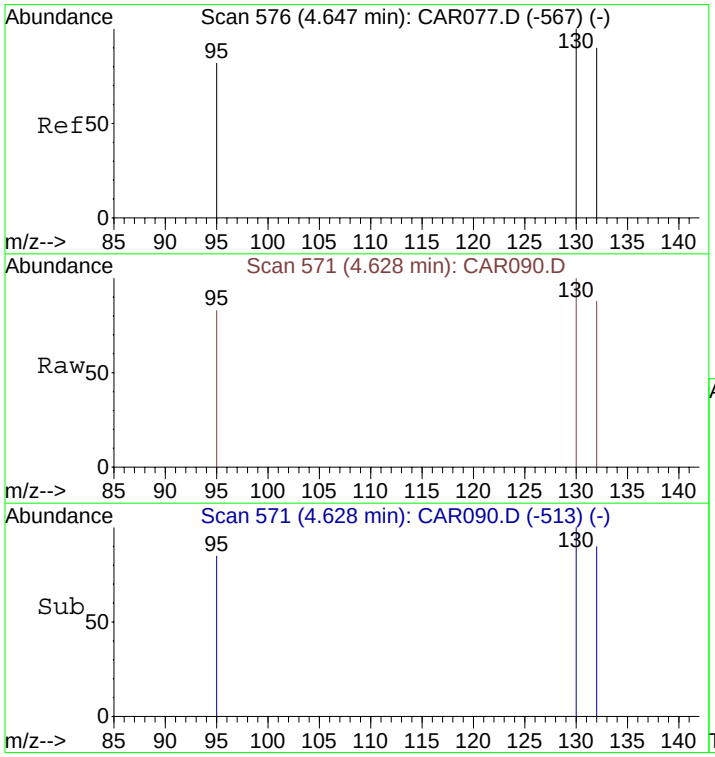


#10
Benzene
Concen: 8.74 ppbv m
RT: 4.40 min Scan# 541
Delta R.T. -0.00 min
Lab File: CAR090.D
Acq: 17 Sep 2008 12:05

Tgt Ion: 78 Resp: 289

Ion	Ratio	Lower	Upper
78	100		
77	93.1	18.6	28.0#
50	143.6	16.2	24.4#

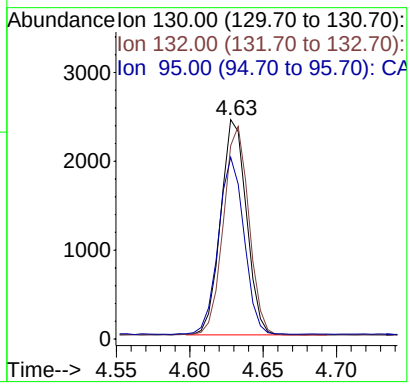


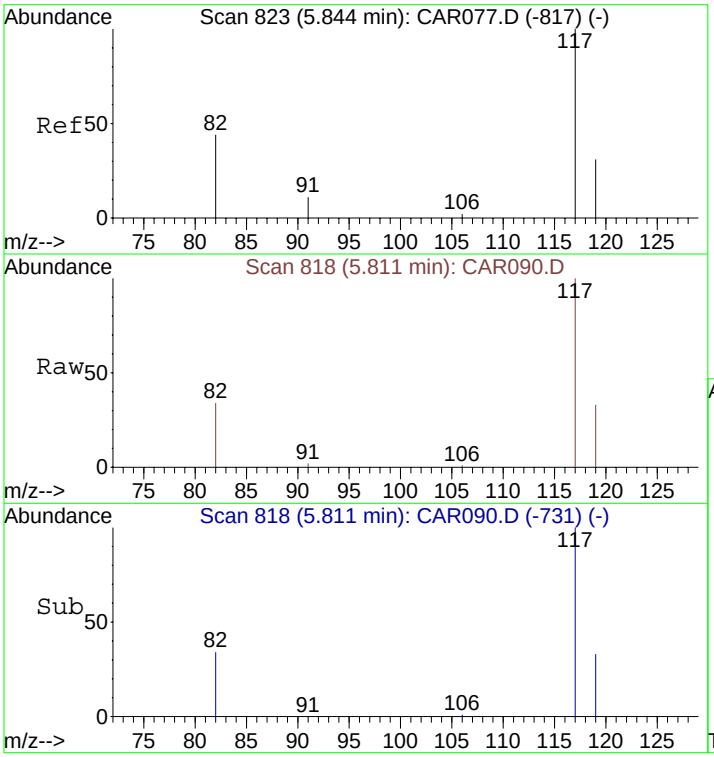


#11
Trichloroethene
Concen: 152.38 ppbv
RT: 4.63 min Scan# 571
Delta R.T. 0.00 min
Lab File: CAR090.D
Acq: 17 Sep 2008 12:05

Tgt Ion:130 Resp: 2966

Ion	Ratio	Lower	Upper
130	100		
132	97.4	73.8	110.6
95	81.4	72.5	108.7

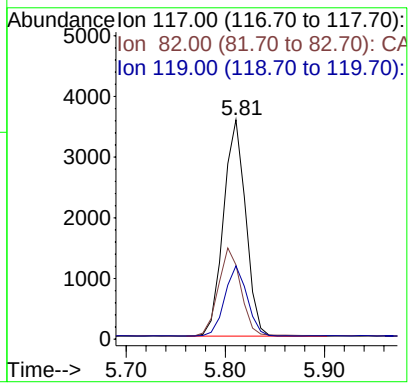




#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.81 min Scan# 818
Delta R.T. 0.02 min
Lab File: CAR090.D
Acq: 17 Sep 2008 12:05

Tgt Ion:117 Resp: 5561

Ion	Ratio	Lower	Upper
117	100		
82	41.7	38.3	57.5
119	32.5	26.0	39.0



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR091.D Vial: 1
Acq On : 17 Sep 2008 12:17 Operator: dlm
Sample : 51419\A10-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 13:39:47 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.15	49	1865	10.00 ppbv	0.01
9) 1,4-Difluorobenzene	4.48	114	5689	10.00 ppbv	0.01
12) Chlorobenzene-d5	5.84	117	5498	10.00 ppbv	0.04

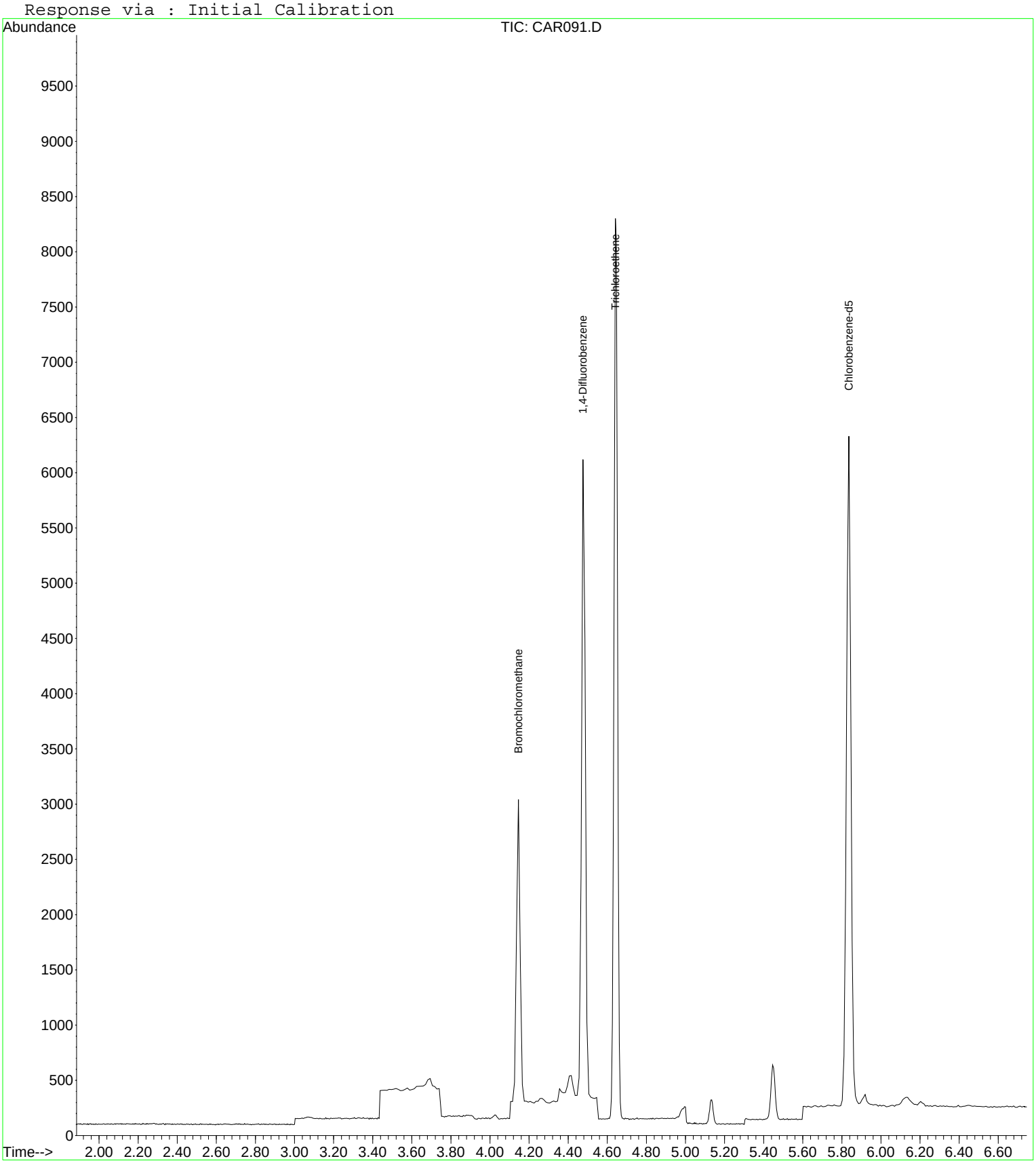
Target Compounds					Qvalue
10) Benzene	4.42	78	224m	6.79 ppbv	
11) Trichloroethene	4.64	130	3774	194.51 ppbv	93
14) Tetrachloroethene	5.45	166	289	12.44 ppbv	99

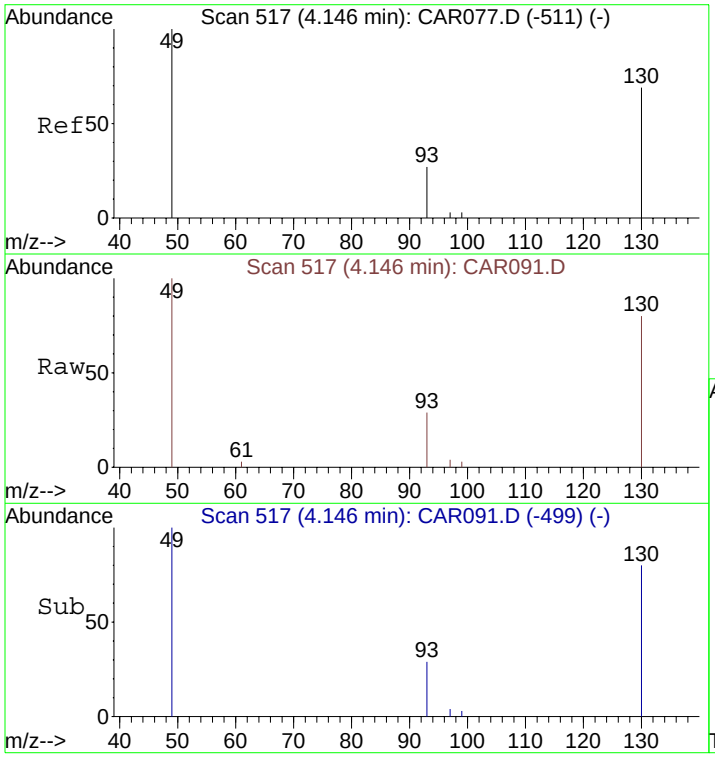
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR091.D Vial: 1
Acq On : 17 Sep 2008 12:17 Operator: dlm
Sample : 51419\A10-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 13:40 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

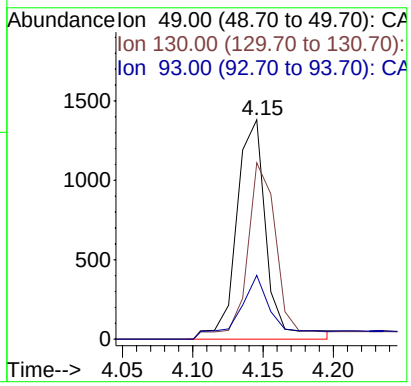


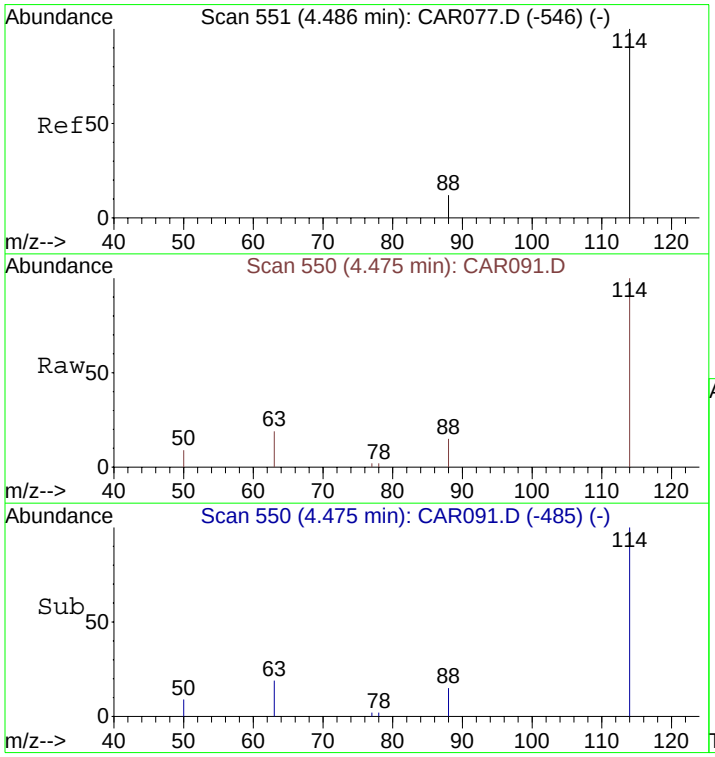


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.15 min Scan# 517
Delta R.T. 0.01 min
Lab File: CAR091.D
Acq: 17 Sep 2008 12:17

Tgt Ion: 49 Resp: 1865

Ion	Ratio	Lower	Upper
49	100		
130	80.7	65.1	97.7
93	34.5	33.8	50.6

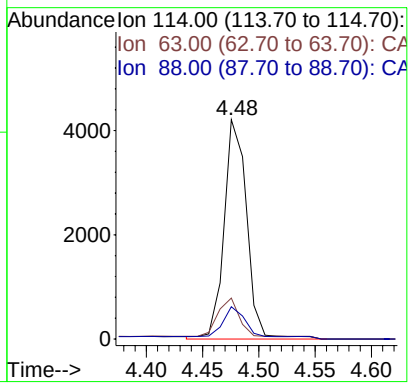


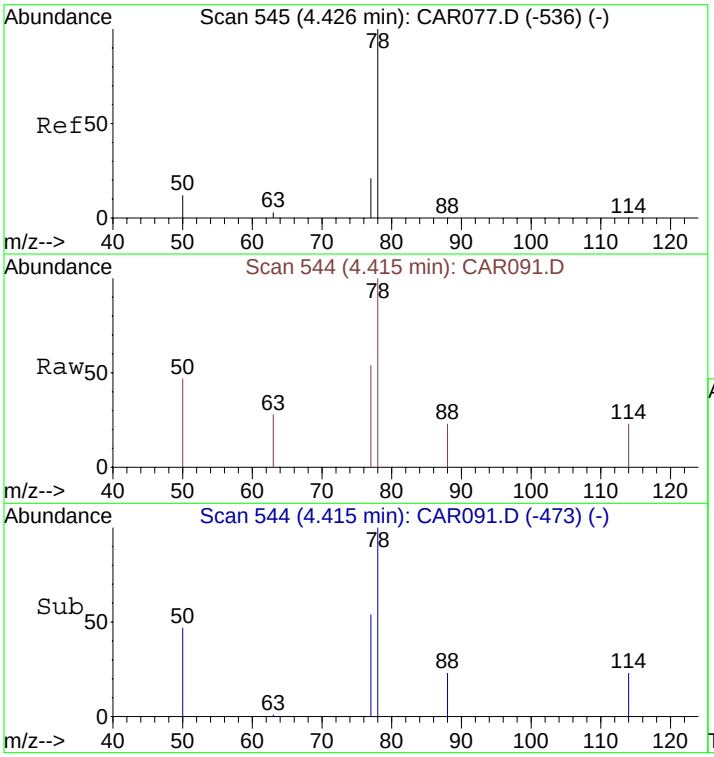


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR091.D
Acq: 17 Sep 2008 12:17

Tgt Ion:114 Resp: 5689

Ion	Ratio	Lower	Upper
114	100		
63	21.8	15.8	23.8
88	17.7	12.2	18.2

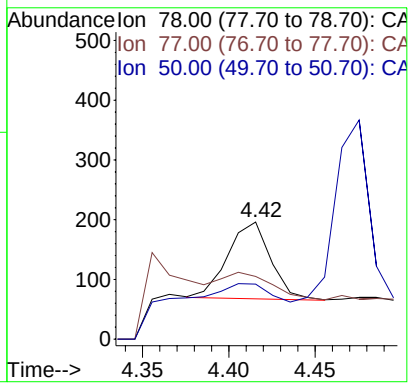


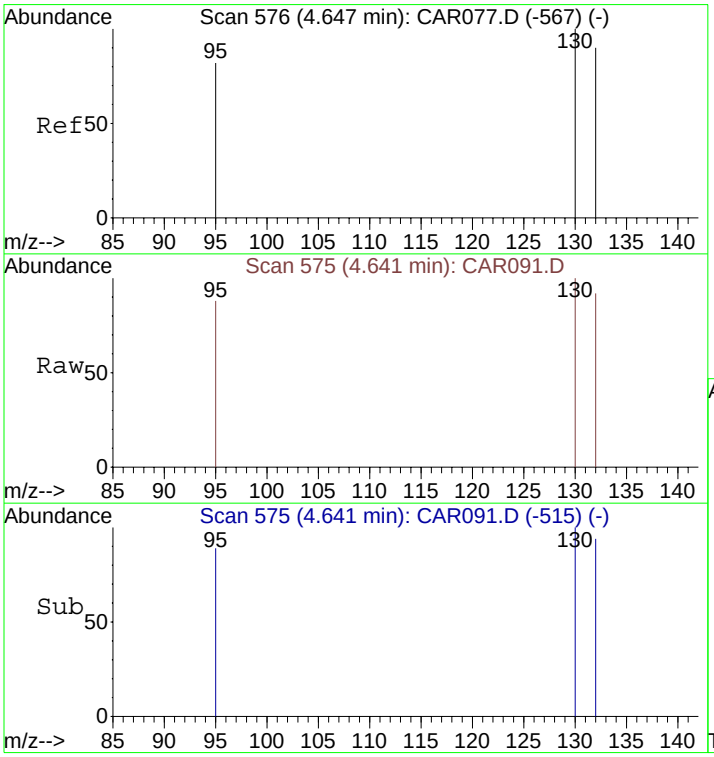


#10
Benzene
Concen: 6.79 ppbv m
RT: 4.42 min Scan# 544
Delta R.T. 0.01 min
Lab File: CAR091.D
Acq: 17 Sep 2008 12:17

Tgt Ion: 78 Resp: 224

Ion	Ratio	Lower	Upper
78	100		
77	118.3	18.6	28.0#
50	179.5	16.2	24.4#

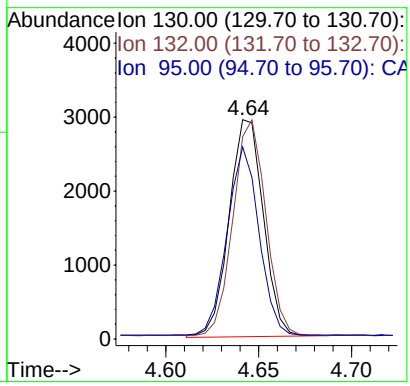


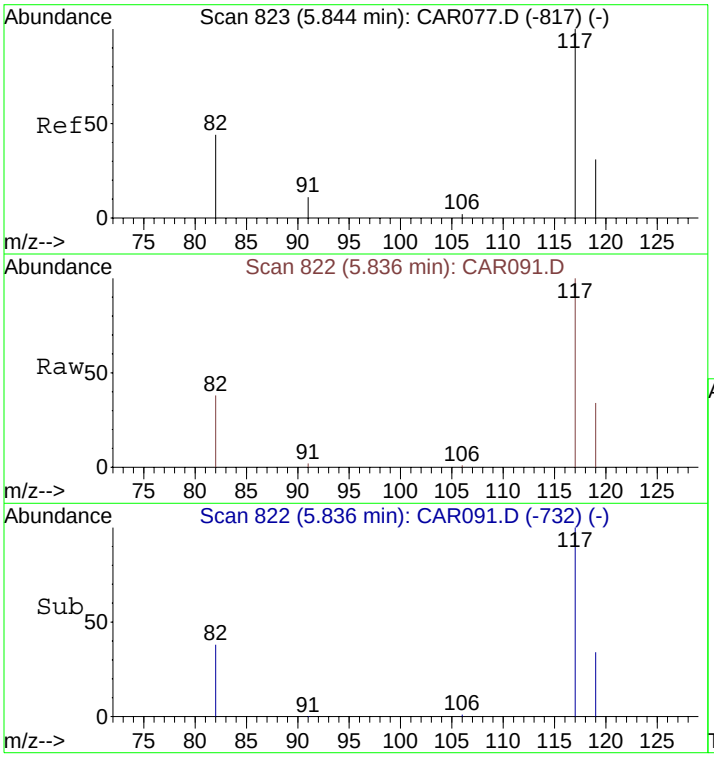


#11
Trichloroethene
Concen: 194.51 ppbv
RT: 4.64 min Scan# 575
Delta R.T. 0.02 min
Lab File: CAR091.D
Acq: 17 Sep 2008 12:17

Tgt Ion:130 Resp: 3774

Ion	Ratio	Lower	Upper
130	100		
132	94.5	73.8	110.6
95	80.1	72.5	108.7

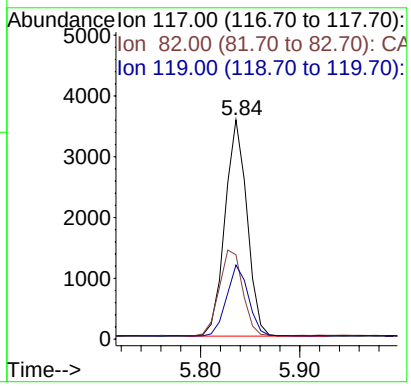


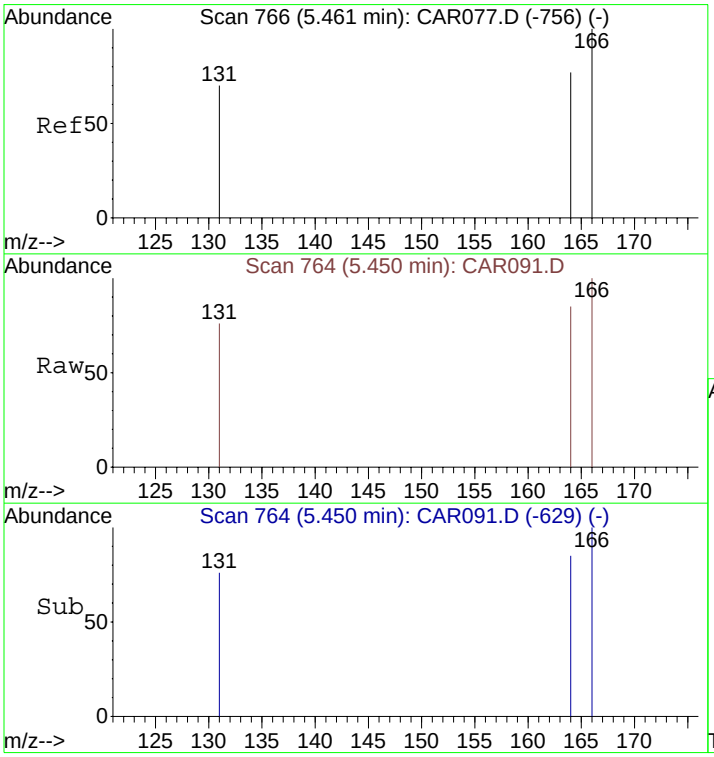


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.84 min Scan# 822
Delta R.T. 0.04 min
Lab File: CAR091.D
Acq: 17 Sep 2008 12:17

Tgt Ion:117 Resp: 5498

Ion	Ratio	Lower	Upper
117	100		
82	42.3	38.3	57.5
119	32.5	26.0	39.0

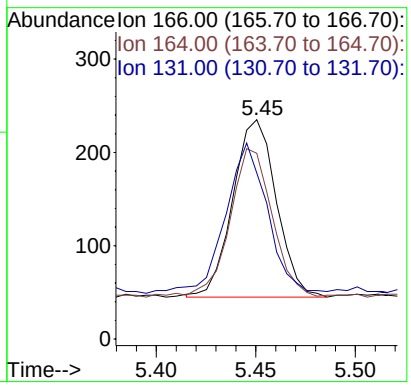




#14
Tetrachloroethene
Concen: 12.44 ppbv
RT: 5.45 min Scan# 764
Delta R.T. 0.04 min
Lab File: CAR091.D
Acq: 17 Sep 2008 12:17

Tgt Ion:166 Resp: 289

Ion	Ratio	Lower	Upper
166	100		
164	78.5	63.1	94.7
131	77.2	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR092.D Vial: 1
Acq On : 17 Sep 2008 12:29 Operator: dlm
Sample : 51420\B12-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 13:41:26 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.13	49	1859	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.46	114	5524	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.79	117	5656	10.00 ppbv	0.00

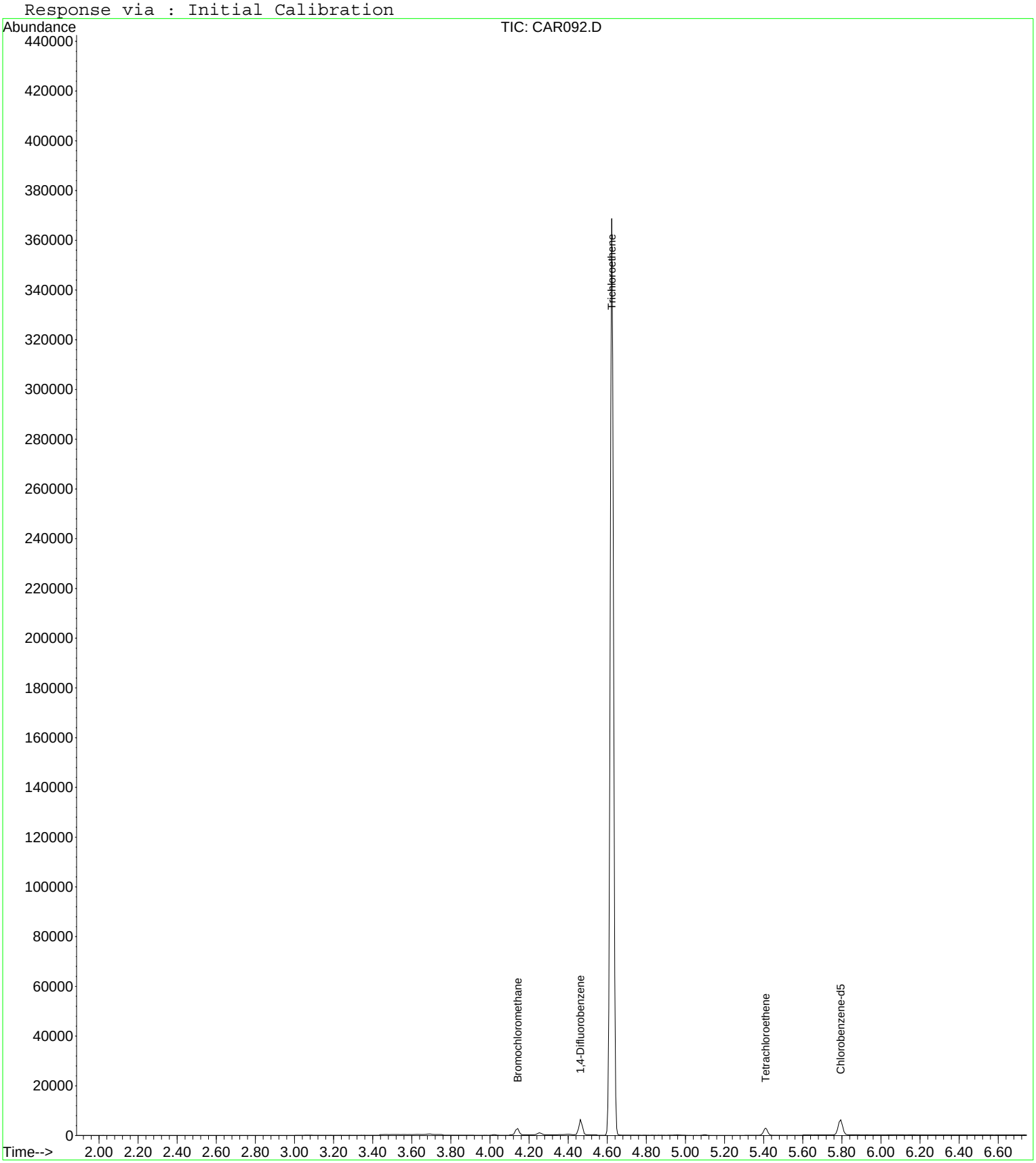
Target Compounds					Qvalue
7) cis-1,2-Dichloroethene	4.02	61	138	8.58 ppbv	87
8) 1,1,1-Trichloroethane	4.25	97	618	24.80 ppbv	96
10) Benzene	4.40	78	239m	7.46 ppbv	
11) Trichloroethene	4.62	130	157280	8348.12 ppbv	93
14) Tetrachloroethene	5.41	166	1651	69.10 ppbv	97

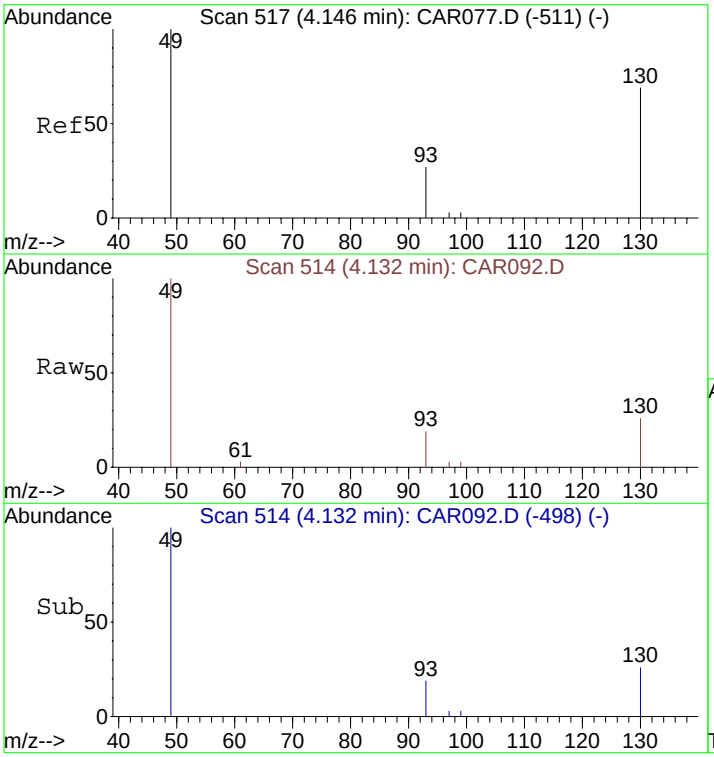
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR092.D Vial: 1
Acq On : 17 Sep 2008 12:29 Operator: dlm
Sample : 51420\B12-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 13:43 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

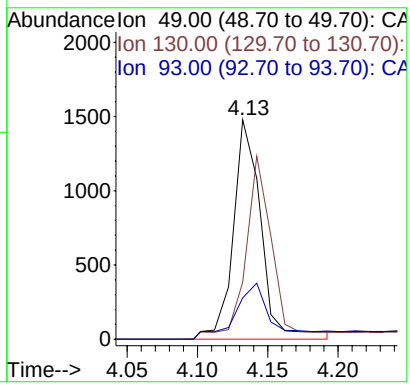


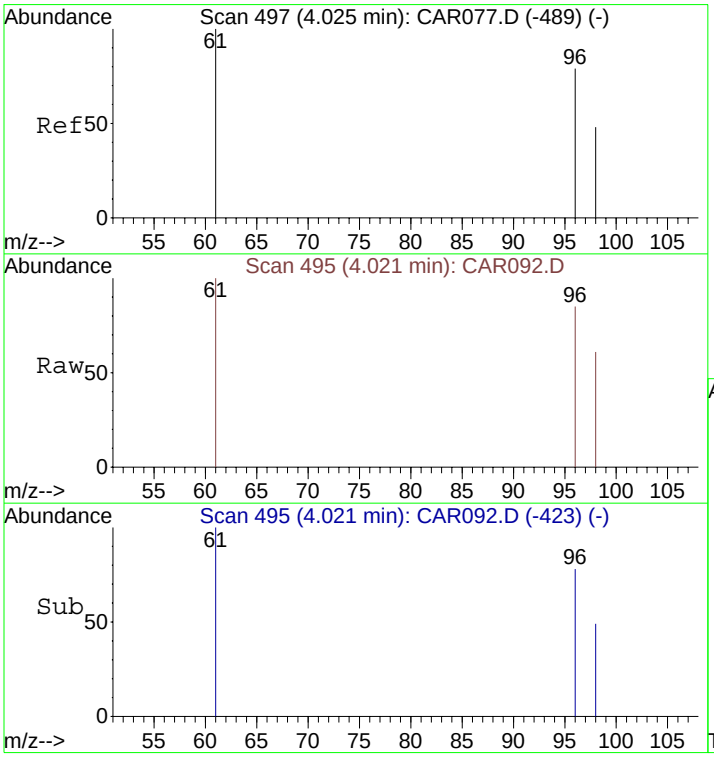


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.13 min Scan# 514
Delta R.T. -0.00 min
Lab File: CAR092.D
Acq: 17 Sep 2008 12:29

Tgt Ion: 49 Resp: 1859

Ion	Ratio	Lower	Upper
49	100		
130	77.7	65.1	97.7
93	32.7	33.8	50.6#

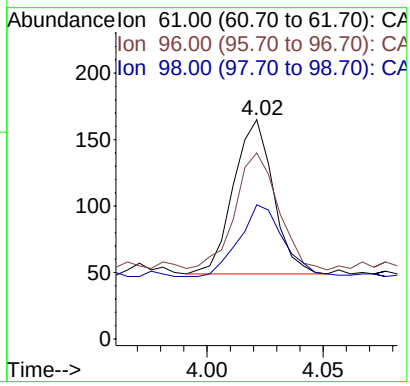


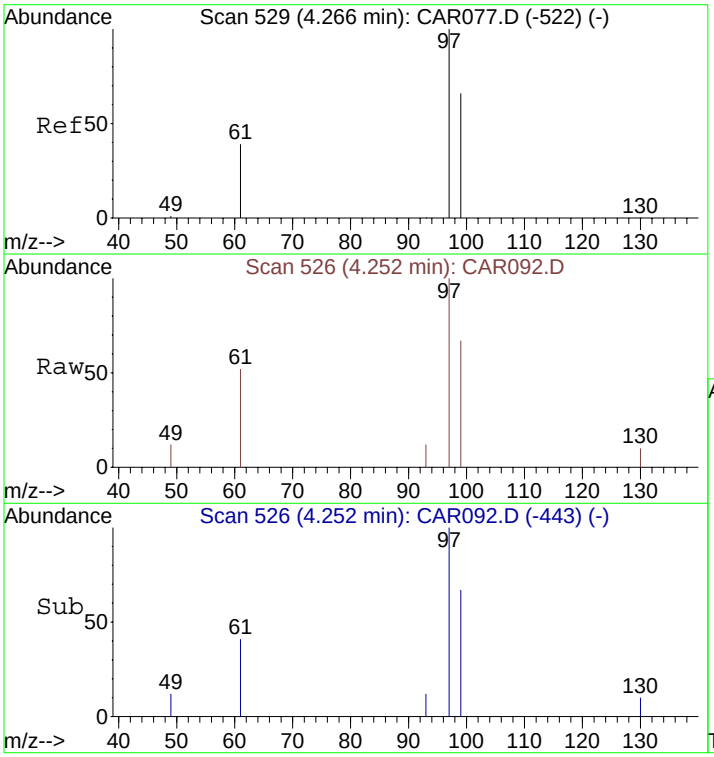


#7
cis-1,2-Dichloroethene
Concen: 8.58 ppbv
RT: 4.02 min Scan# 495
Delta R.T. 0.00 min
Lab File: CAR092.D
Acq: 17 Sep 2008 12:29

Tgt Ion: 61 Resp: 138

Ion	Ratio	Lower	Upper
61	100		
96	81.9	56.0	84.0
98	52.2	36.2	54.4

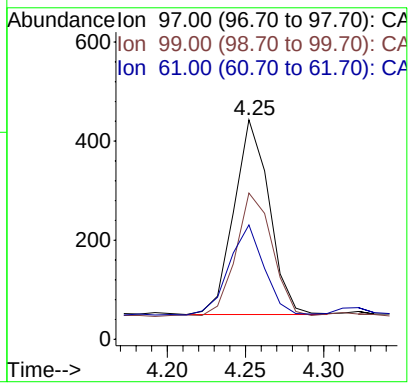


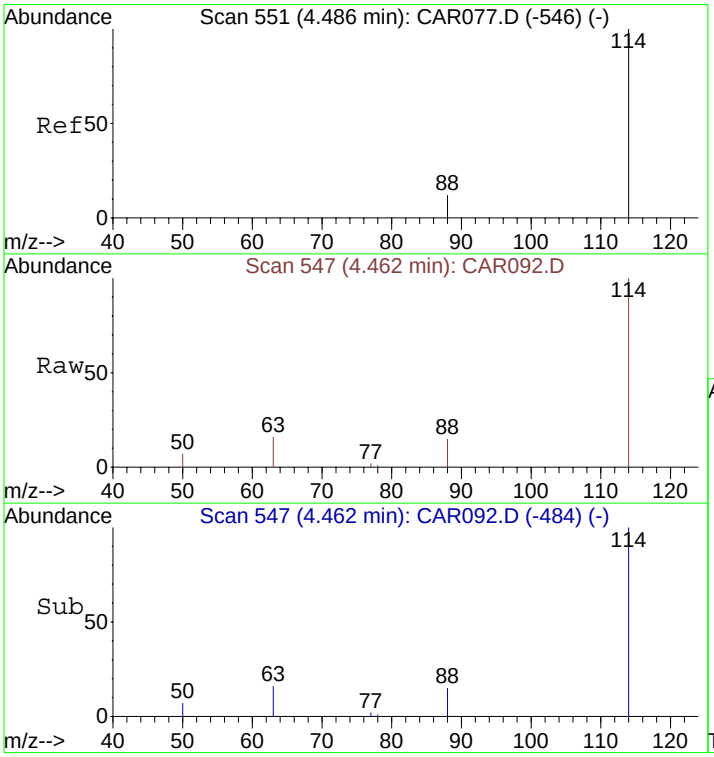


#8
1,1,1-Trichloroethane
Concen: 24.80 ppbv
RT: 4.25 min Scan# 526
Delta R.T. -0.00 min
Lab File: CAR092.D
Acq: 17 Sep 2008 12:29

Tgt Ion: 97 Resp: 618

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.8	77.8
61	46.0	32.1	48.1

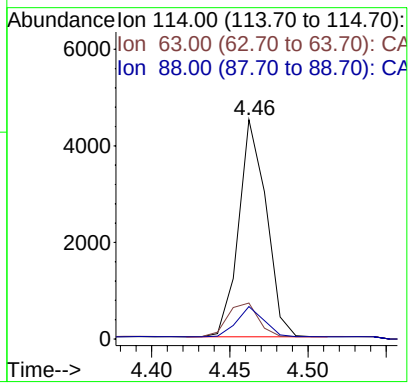


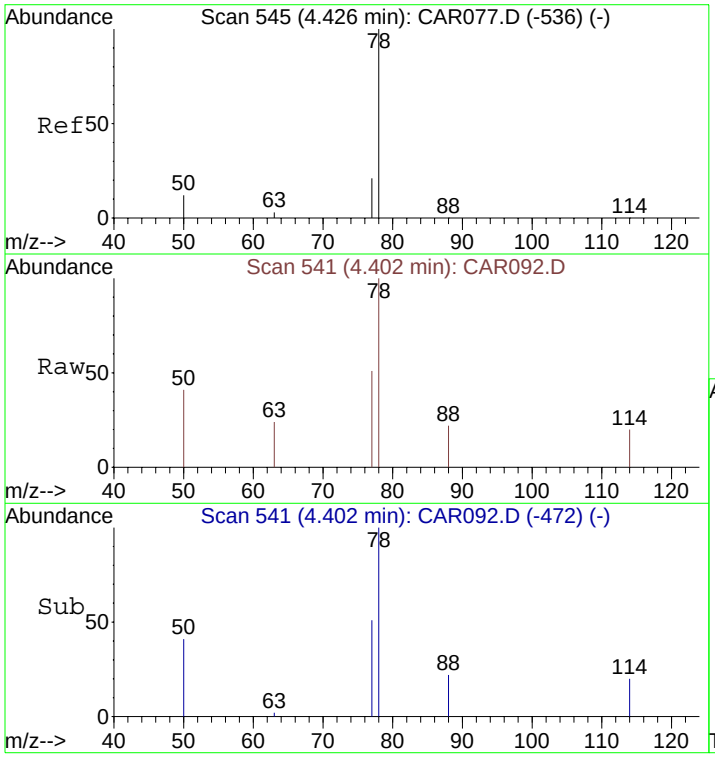


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.46 min Scan# 547
Delta R.T. -0.00 min
Lab File: CAR092.D
Acq: 17 Sep 2008 12:29

Tgt Ion:114 Resp: 5524

Ion	Ratio	Lower	Upper
114	100		
63	18.1	15.8	23.8
88	18.5	12.2	18.2#

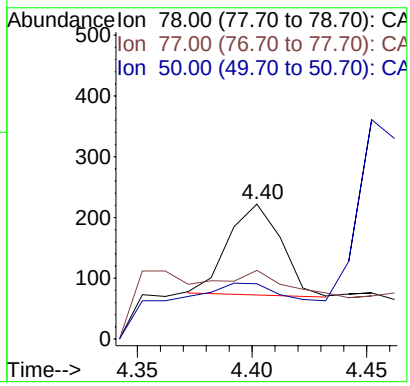


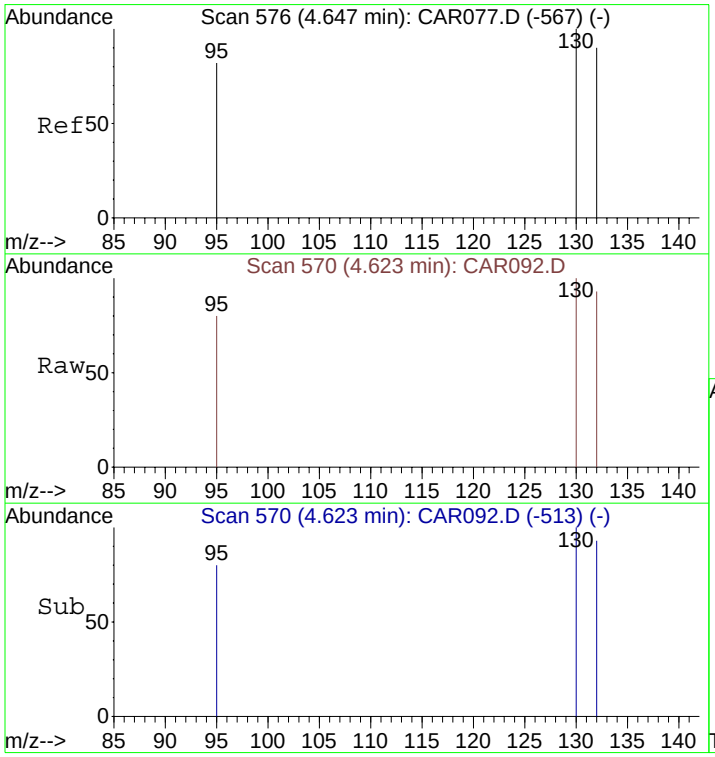


#10
Benzene
Concen: 7.46 ppbv m
RT: 4.40 min Scan# 541
Delta R.T. -0.00 min
Lab File: CAR092.D
Acq: 17 Sep 2008 12:29

Tgt Ion: 78 Resp: 239

Ion	Ratio	Lower	Upper
78	100		
77	78.7	18.6	28.0#
50	164.9	16.2	24.4#

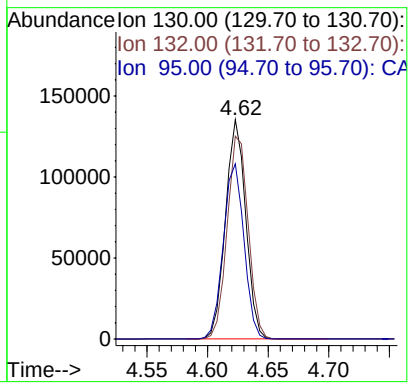


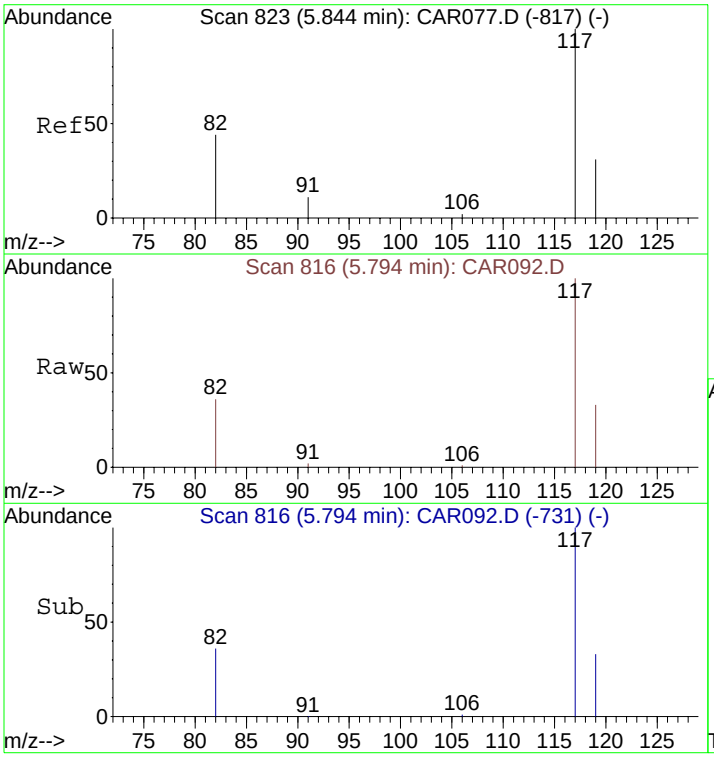


#11
Trichloroethene
Concen: 8348.12 ppbv
RT: 4.62 min Scan# 570
Delta R.T. -0.00 min
Lab File: CAR092.D
Acq: 17 Sep 2008 12:29

Tgt Ion:130 Resp: 157280

Ion	Ratio	Lower	Upper
130	100		
132	96.1	73.8	110.6
95	81.4	72.5	108.7

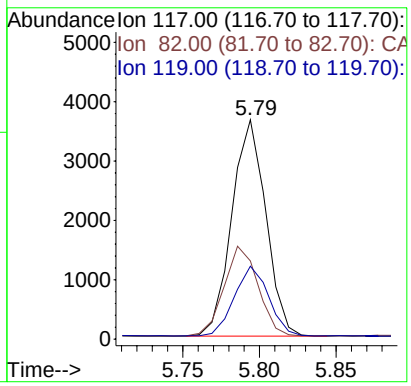


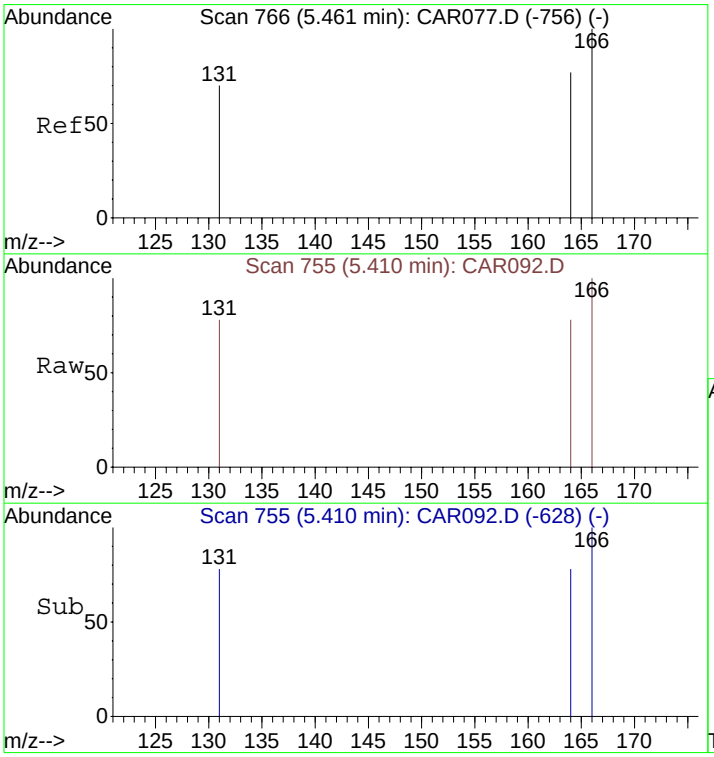


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.79 min Scan# 816
Delta R.T. 0.00 min
Lab File: CAR092.D
Acq: 17 Sep 2008 12:29

Tgt Ion:117 Resp: 5656

Ion	Ratio	Lower	Upper
117	100		
82	41.3	38.3	57.5
119	32.4	26.0	39.0

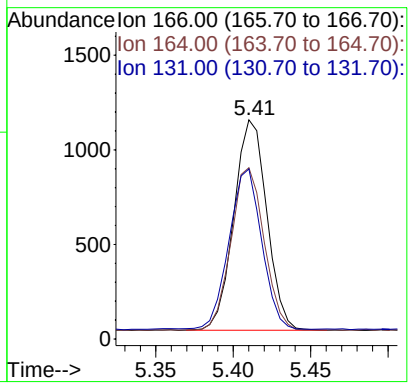




#14
Tetrachloroethene
Concen: 69.10 ppbv
RT: 5.41 min Scan# 755
Delta R.T. -0.00 min
Lab File: CAR092.D
Acq: 17 Sep 2008 12:29

Tgt Ion:166 Resp: 1651

Ion	Ratio	Lower	Upper
166	100		
164	77.3	63.1	94.7
131	75.2	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR093.D Vial: 1
Acq On : 17 Sep 2008 13:35 Operator: dlm
Sample : 51421\C9-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 13:53:40 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1791	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	5640	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.79	117	5461	10.00 ppbv	0.00

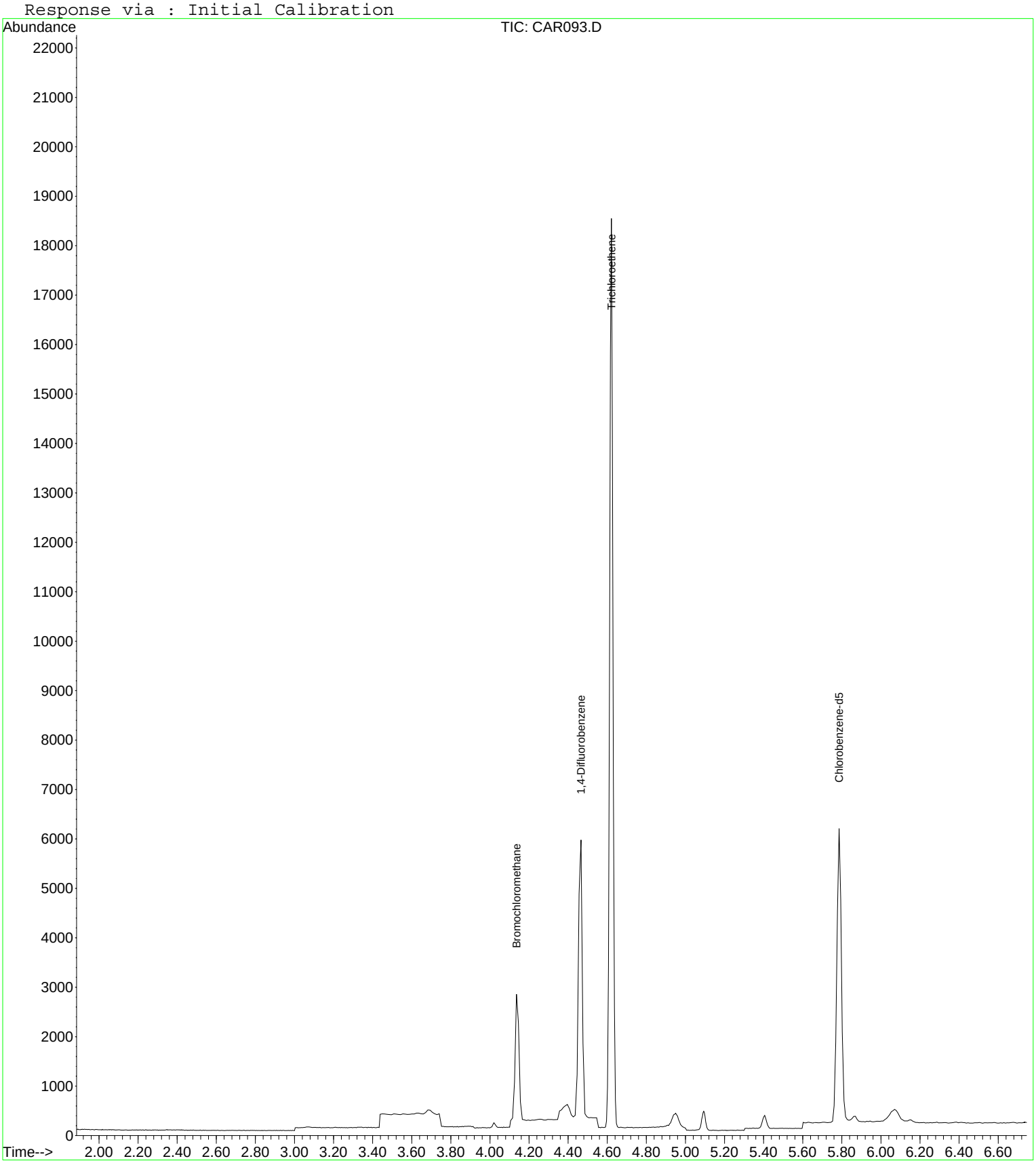
Target Compounds					Qvalue
10) Benzene	4.40	78	302m	9.24 ppbv	
11) Trichloroethene	4.62	130	7803	405.65 ppbv	93
13) Toluene	5.09	91	323	8.03 ppbv	97
14) Tetrachloroethene	5.41	166	153	6.63 ppbv #	80

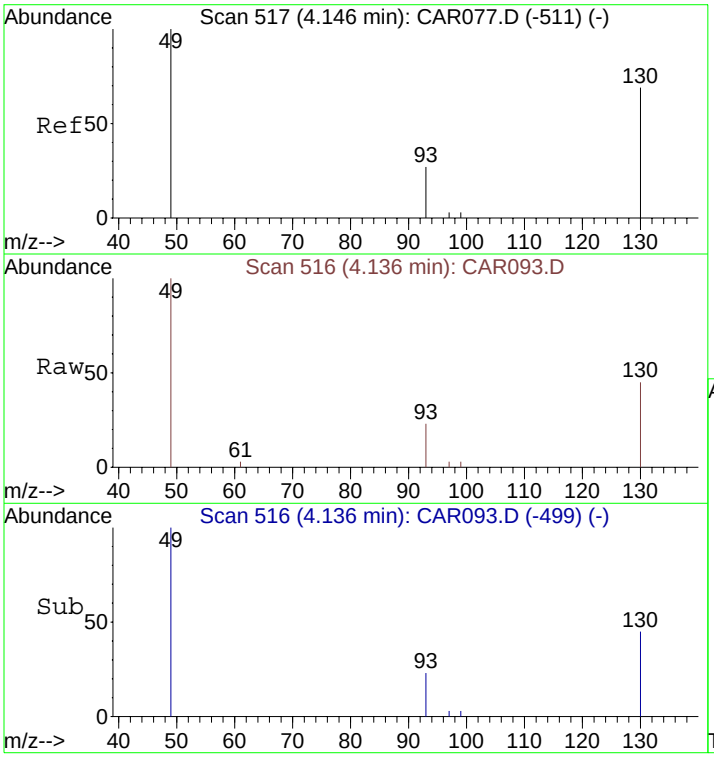
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR093.D Vial: 1
Acq On : 17 Sep 2008 13:35 Operator: dlm
Sample : 51421\C9-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 13:57 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

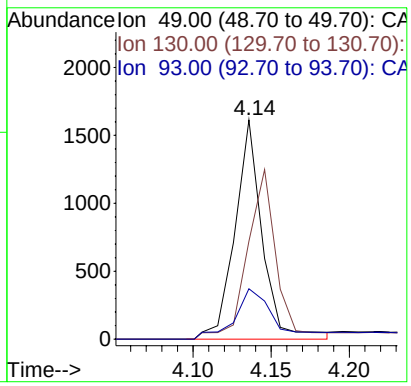


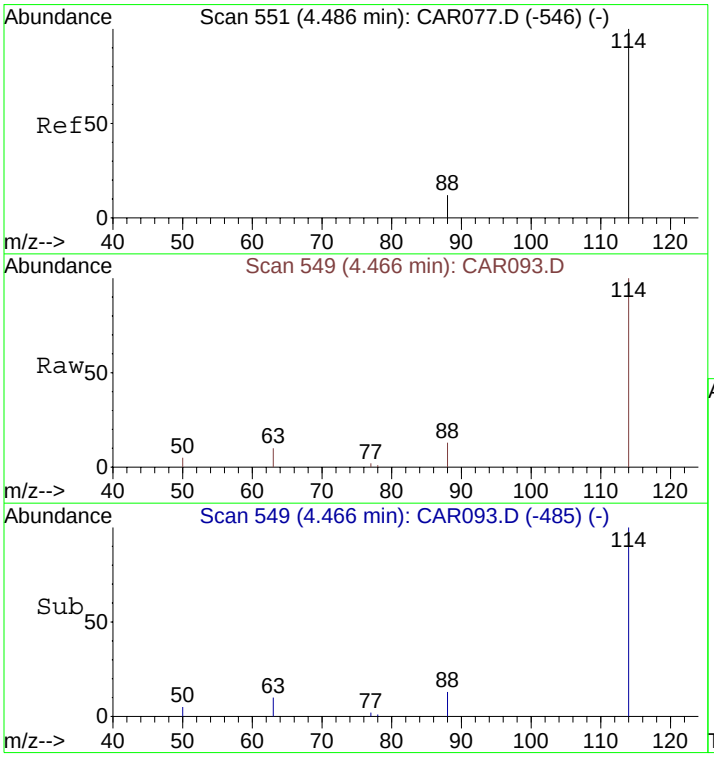


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR093.D
Acq: 17 Sep 2008 13:35

Tgt Ion: 49 Resp: 1791

Ion	Ratio	Lower	Upper
49	100		
130	81.5	65.1	97.7
93	33.3	33.8	50.6#

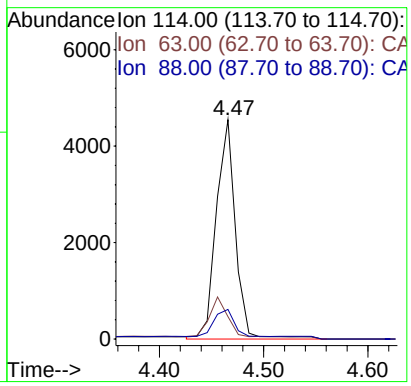


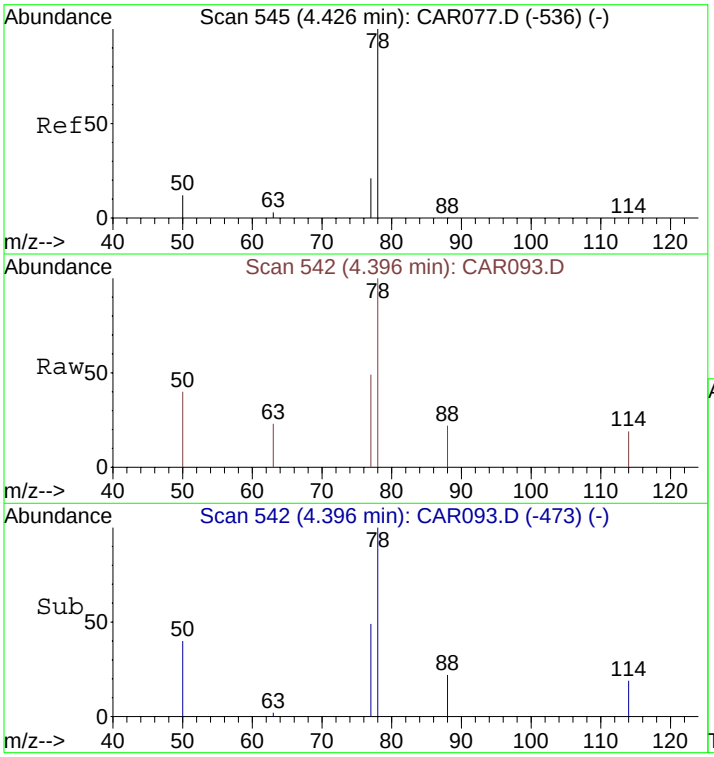


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. 0.00 min
Lab File: CAR093.D
Acq: 17 Sep 2008 13:35

Tgt Ion:114 Resp: 5640

Ion	Ratio	Lower	Upper
114	100		
63	18.4	15.8	23.8
88	14.2	12.2	18.2

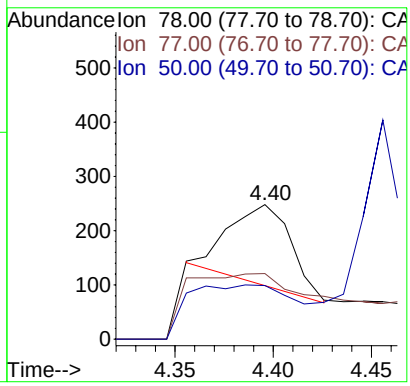


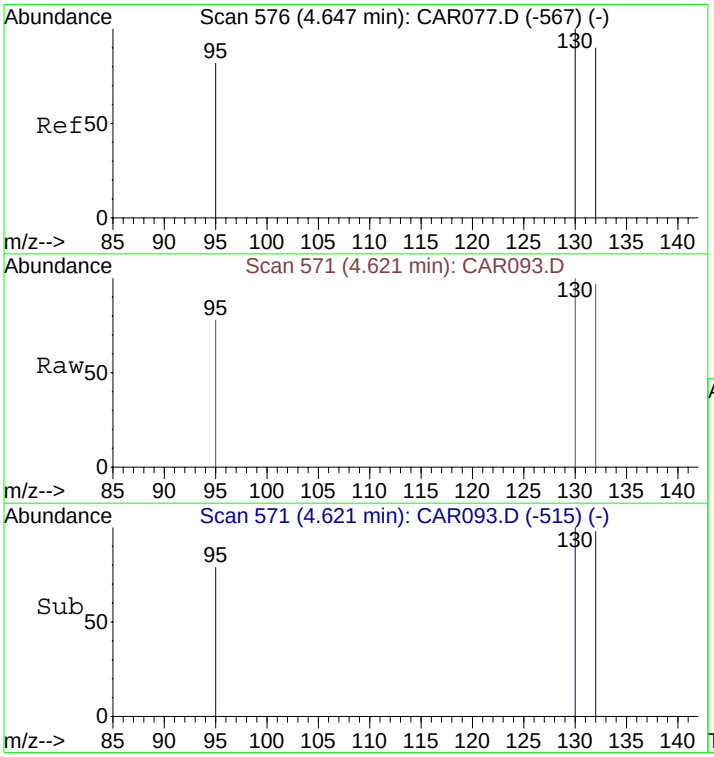


#10
Benzene
Concen: 9.24 ppbv m
RT: 4.40 min Scan# 542
Delta R.T. -0.01 min
Lab File: CAR093.D
Acq: 17 Sep 2008 13:35

Tgt Ion: 78 Resp: 302

Ion	Ratio	Lower	Upper
78	100		
77	206.6	18.6	28.0#
50	123.5	16.2	24.4#

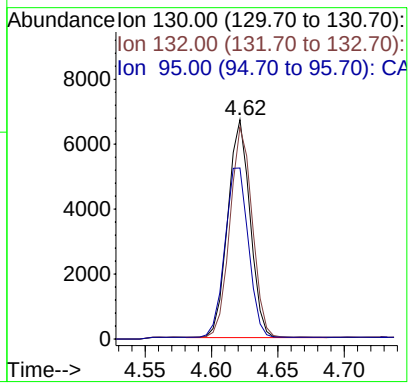


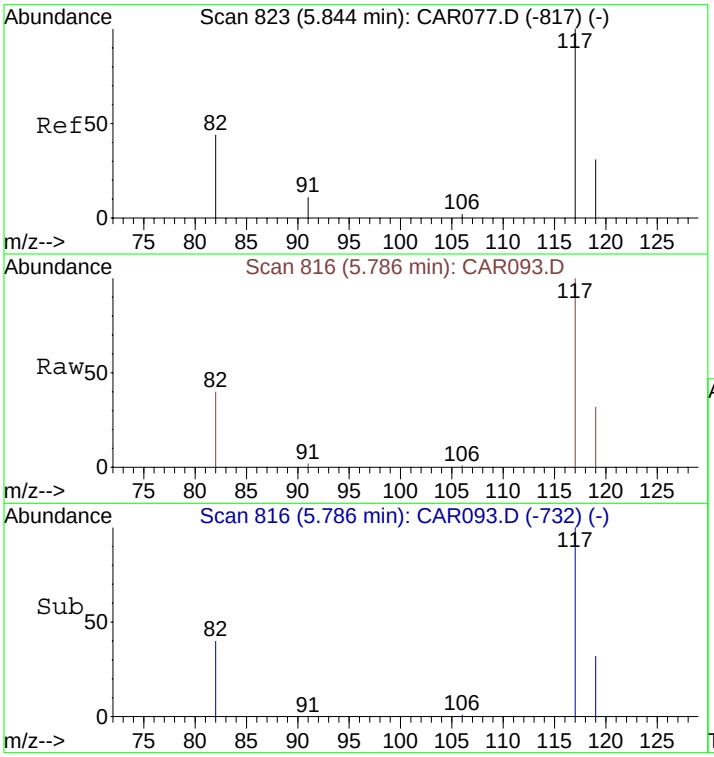


#11
Trichloroethene
Concen: 405.65 ppbv
RT: 4.62 min Scan# 571
Delta R.T. -0.00 min
Lab File: CAR093.D
Acq: 17 Sep 2008 13:35

Tgt Ion:130 Resp: 7803

Ion	Ratio	Lower	Upper
130	100		
132	96.1	73.8	110.6
95	81.8	72.5	108.7

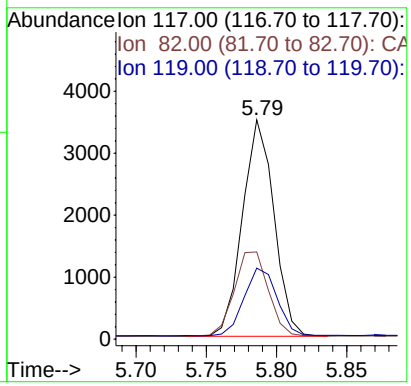


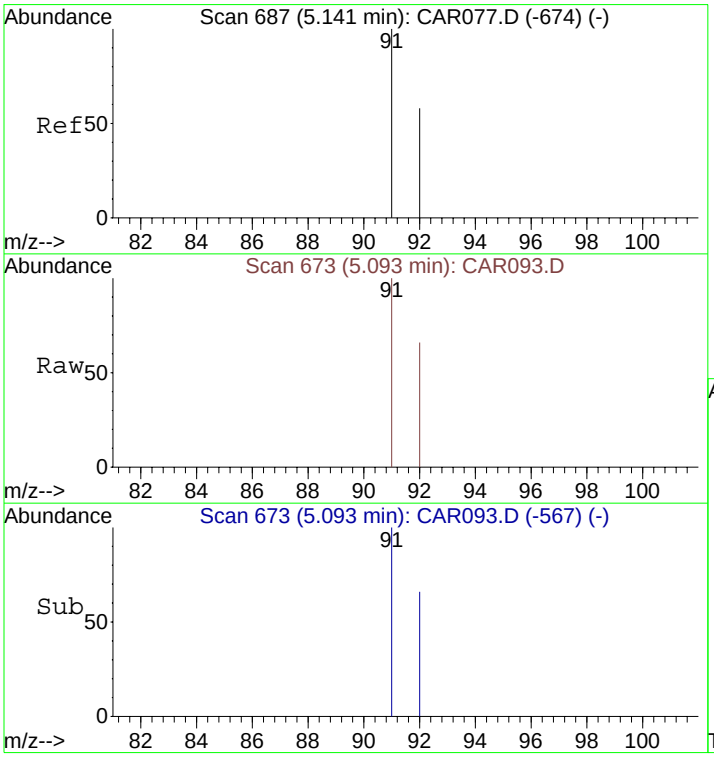


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.79 min Scan# 816
Delta R.T. -0.01 min
Lab File: CAR093.D
Acq: 17 Sep 2008 13:35

Tgt Ion:117 Resp: 5461

Ion	Ratio	Lower	Upper
117	100		
82	41.7	38.3	57.5
119	33.0	26.0	39.0

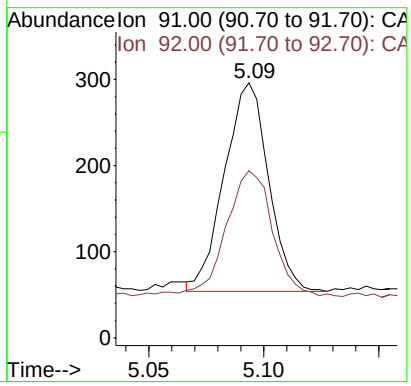


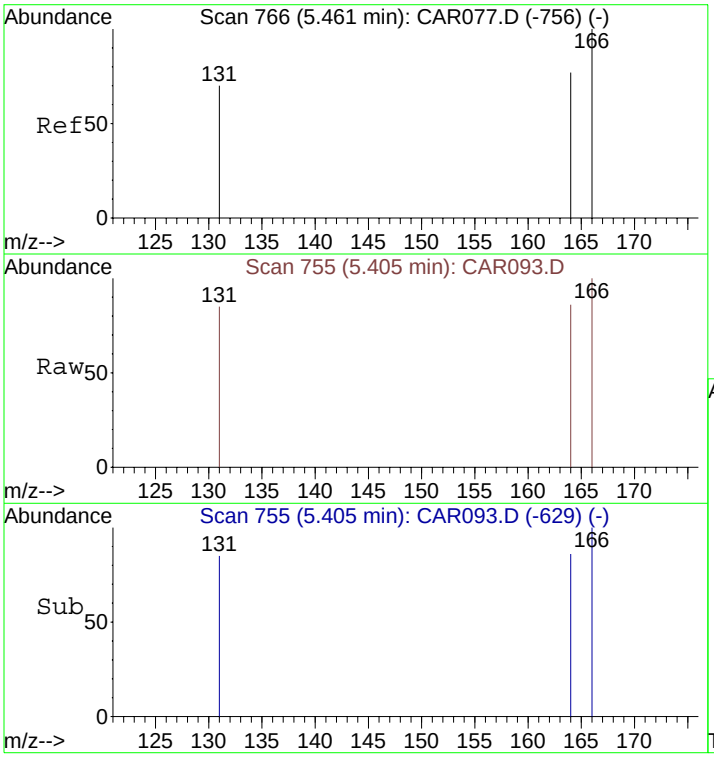


#13
Toluene
Concen: 8.03 ppbv
RT: 5.09 min Scan# 673
Delta R.T. -0.01 min
Lab File: CAR093.D
Acq: 17 Sep 2008 13:35

Tgt Ion: 91 Resp: 323

Ion	Ratio	Lower	Upper
91	100		
92	62.2	48.2	72.2

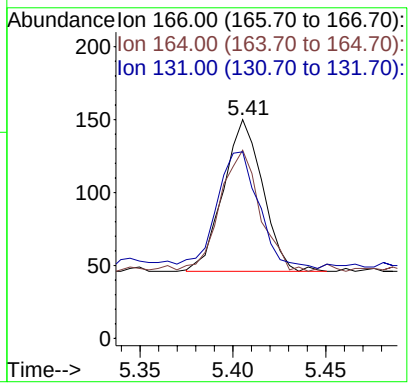




#14
Tetrachloroethene
Concen: 6.63 ppbv
RT: 5.41 min Scan# 755
Delta R.T. -0.01 min
Lab File: CAR093.D
Acq: 17 Sep 2008 13:35

Tgt Ion:166 Resp: 153

Ion	Ratio	Lower	Upper
166	100		
164	81.0	63.1	94.7
131	111.8	62.9	94.3#



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR094.D Vial: 1
Acq On : 17 Sep 2008 13:47 Operator: dlm
Sample : 51422\B9-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 13:57:58 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1963	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	6151	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.81	117	5943	10.00 ppbv	0.02

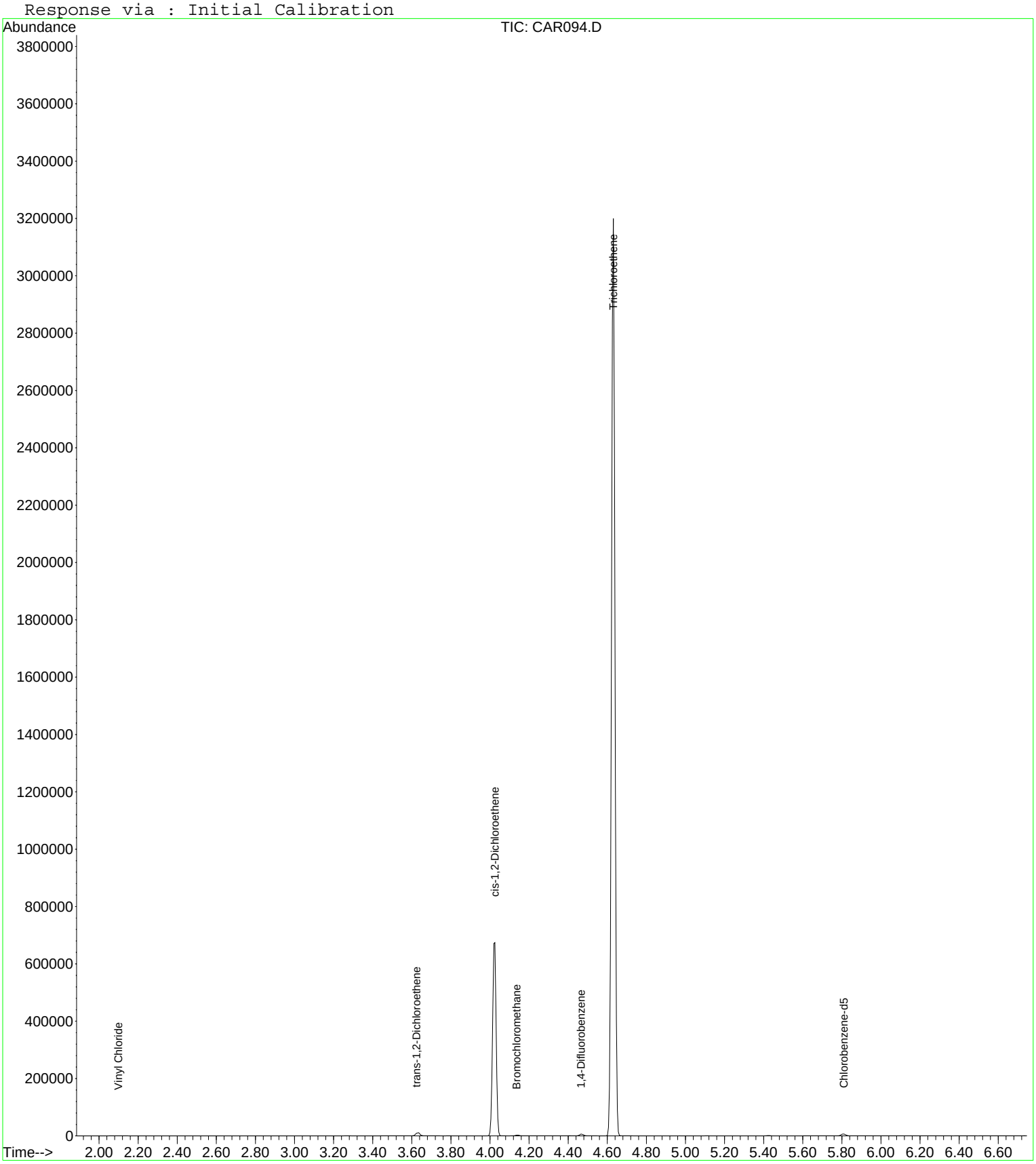
Target Compounds					Qvalue
2) Vinyl Chloride	2.10	62	1623m	144.08 ppbv	
5) trans-1,2-Dichloroethene	3.62	61	7683	443.21 ppbv	96
6) 1,1-Dichloroethane	3.79	63	227m	10.42 ppbv	
7) cis-1,2-Dichloroethene	4.02	61	392148	23077.79 ppbv	92
10) Benzene	4.41	78	346m	9.70 ppbv	
11) Trichloroethene	4.63	130	1388513	66187.06 ppbv	92
13) Toluene	5.11	91	326	7.45 ppbv	97
14) Tetrachloroethene	5.43	166	663	26.41 ppbv	97

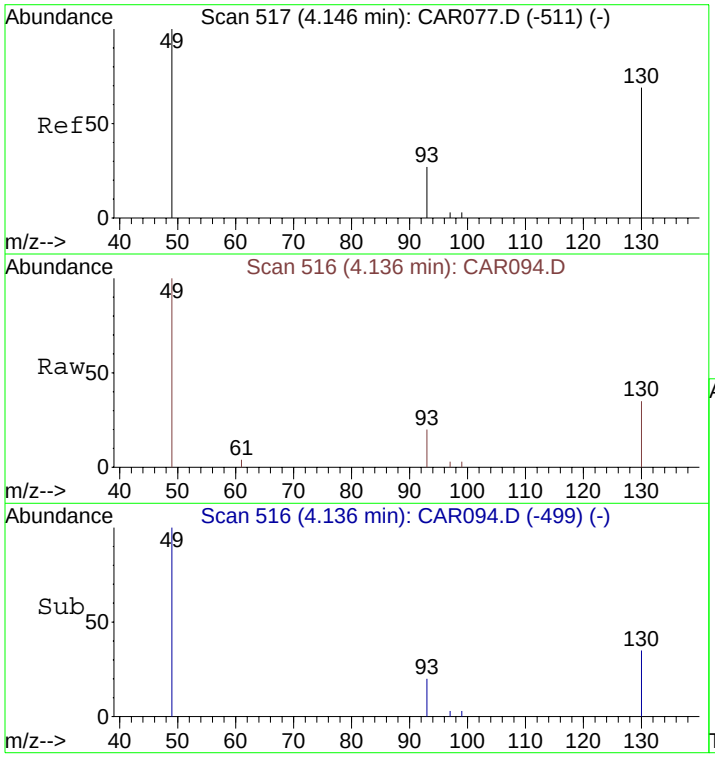
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR094.D Vial: 1
Acq On : 17 Sep 2008 13:47 Operator: dlm
Sample : 51422\B9-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 14:06 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

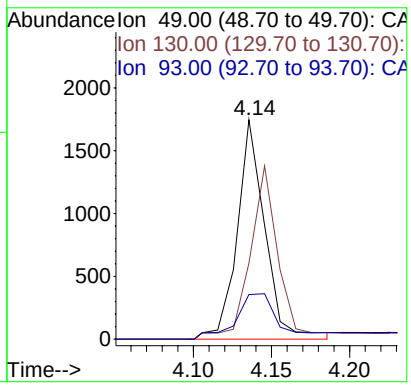


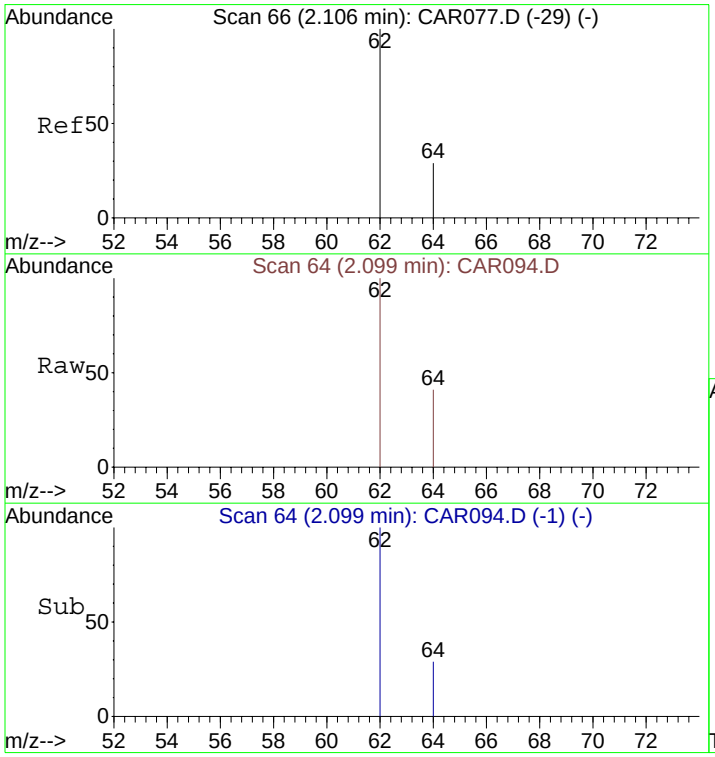


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR094.D
Acq: 17 Sep 2008 13:47

Tgt Ion: 49 Resp: 1963

Ion	Ratio	Lower	Upper
49	100		
130	82.0	65.1	97.7
93	32.5	33.8	50.6#

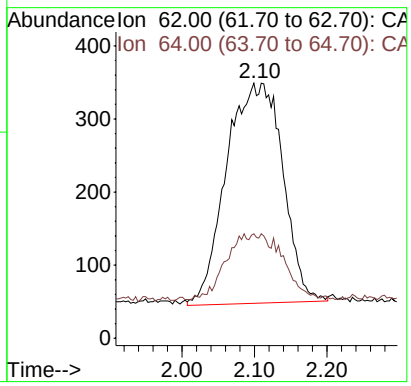


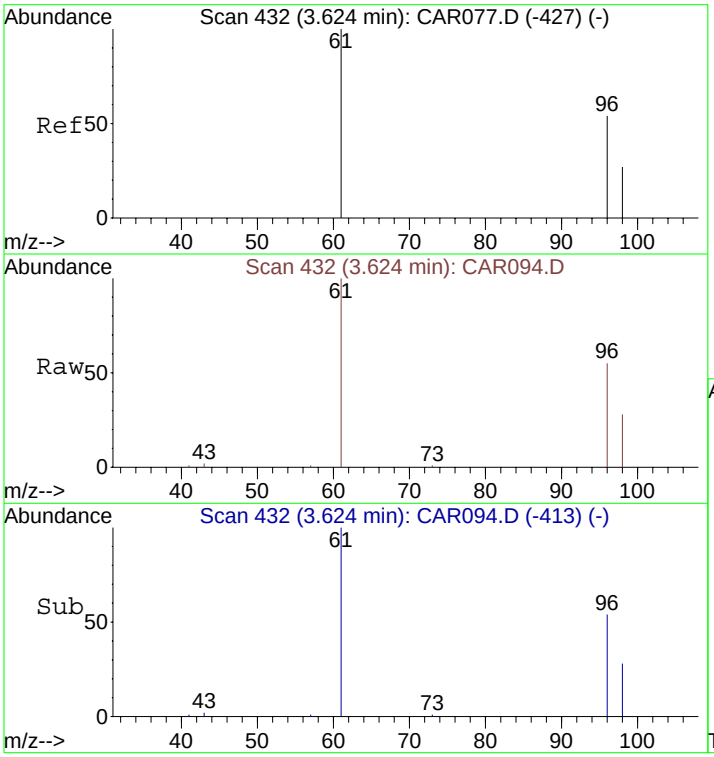


#2
Vinyl Chloride
Concen: 144.08 ppbv m
RT: 2.10 min Scan# 64
Delta R.T. -0.01 min
Lab File: CAR094.D
Acq: 17 Sep 2008 13:47

Tgt Ion: 62 Resp: 1623

Ion	Ratio	Lower	Upper
62	100		
64	12.6	9.4	14.2

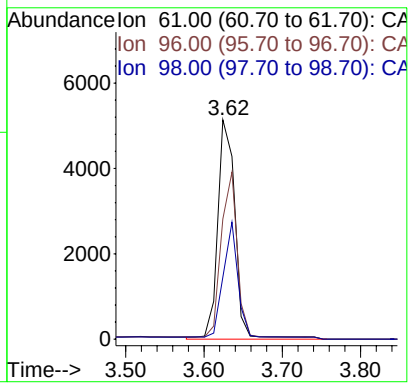


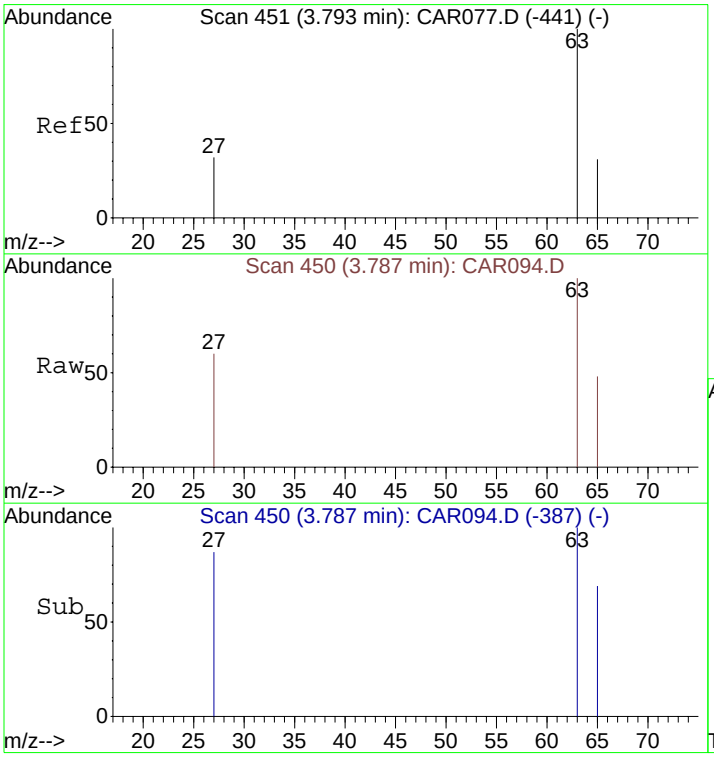


#5
trans-1,2-Dichloroethene
Concen: 443.21 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR094.D
Acq: 17 Sep 2008 13:47

Tgt Ion: 61 Resp: 7683

Ion	Ratio	Lower	Upper
61	100		
96	70.3	55.0	82.4
98	49.2	35.6	53.4

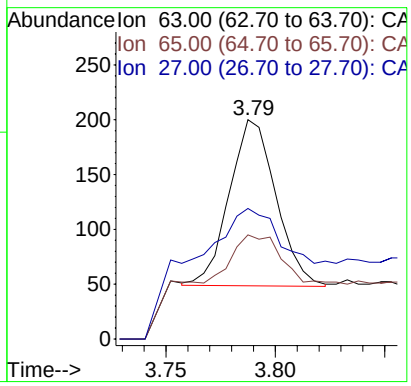


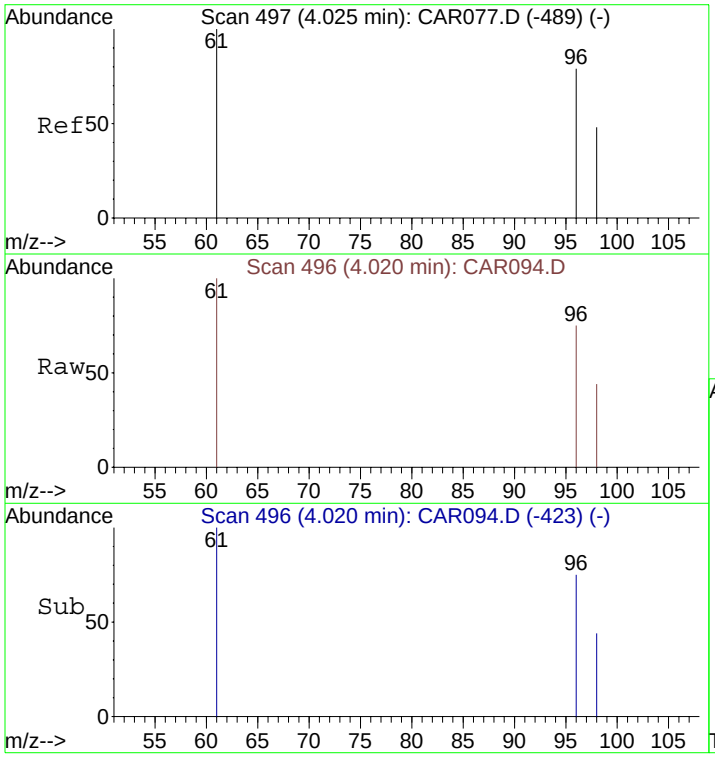


#6
1,1-Dichloroethane
Concen: 10.42 ppbv m
RT: 3.79 min Scan# 450
Delta R.T. -0.00 min
Lab File: CAR094.D
Acq: 17 Sep 2008 13:47

Tgt Ion: 63 Resp: 227

Ion	Ratio	Lower	Upper
63	100		
65	166.5	23.5	35.3#
27	211.9	26.7	40.1#

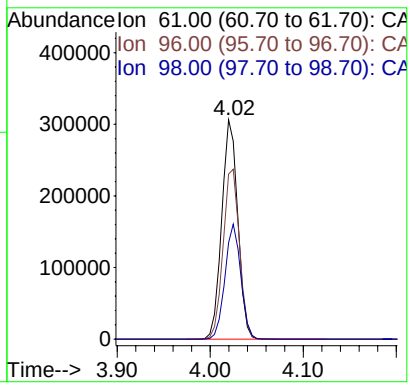


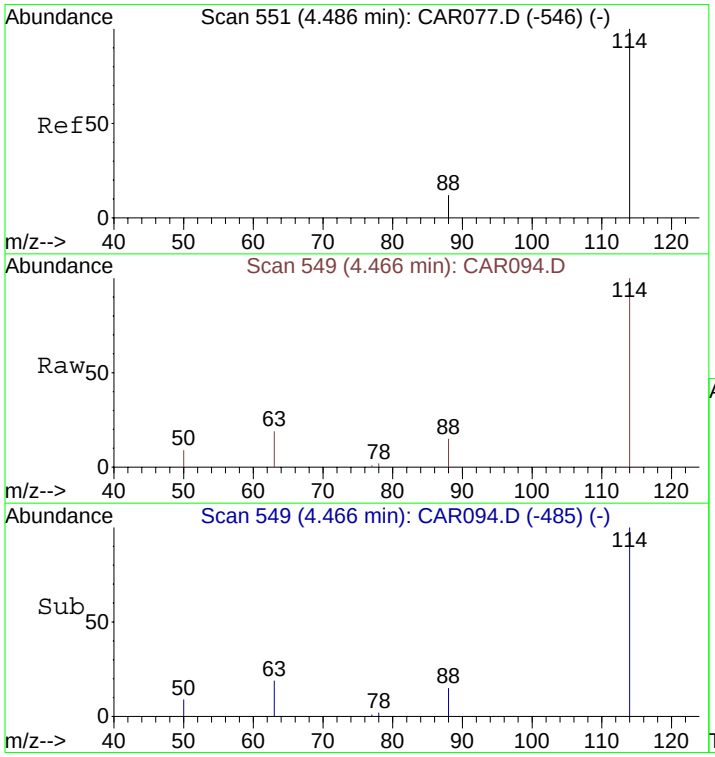


#7
cis-1,2-Dichloroethene
Concen: 23077.79 ppbv
RT: 4.02 min Scan# 496
Delta R.T. 0.00 min
Lab File: CAR094.D
Acq: 17 Sep 2008 13:47

Tgt Ion: 61 Resp: 392148

Ion	Ratio	Lower	Upper
61	100		
96	76.9	56.0	84.0
98	50.1	36.2	54.4

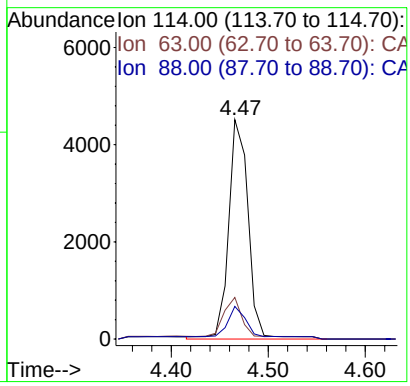


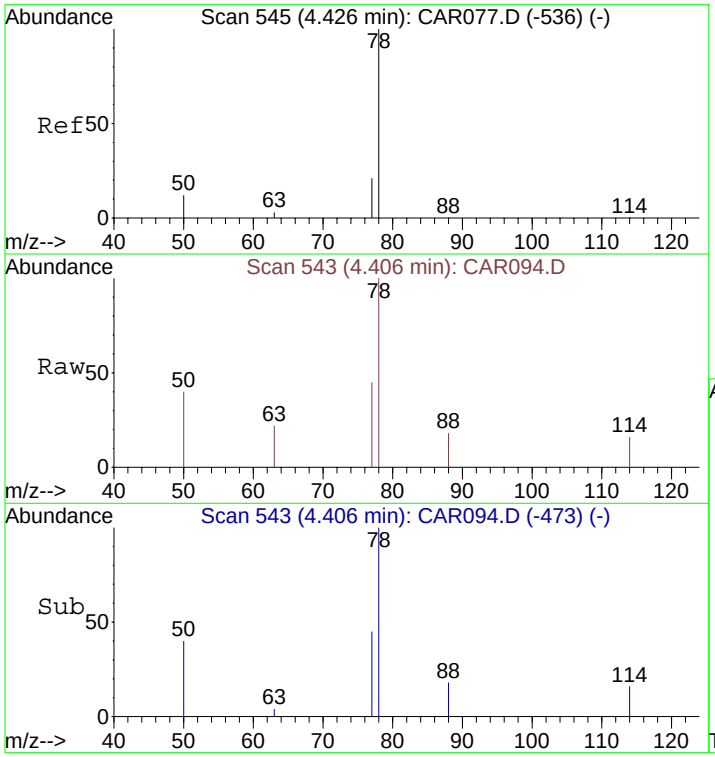


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. 0.00 min
Lab File: CAR094.D
Acq: 17 Sep 2008 13:47

Tgt Ion:114 Resp: 6151

Ion	Ratio	Lower	Upper
114	100		
63	21.7	15.8	23.8
88	21.6	12.2	18.2#

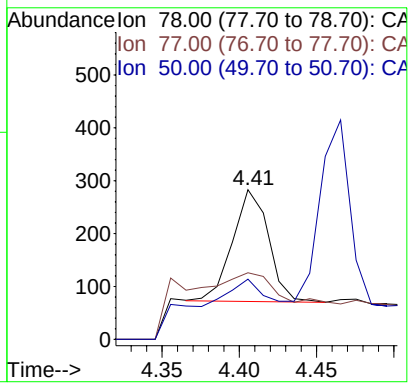


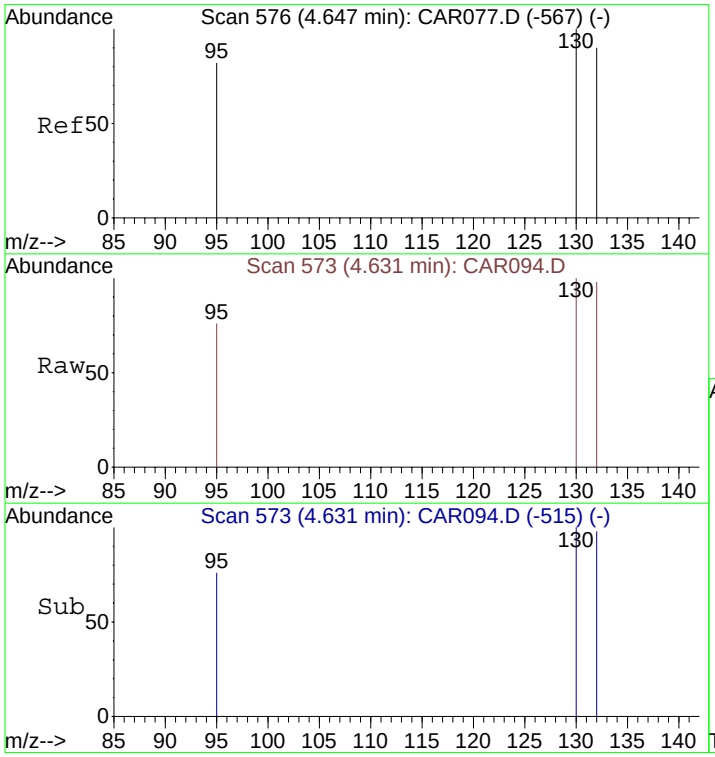


#10
Benzene
Concen: 9.70 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR094.D
Acq: 17 Sep 2008 13:47

Tgt Ion: 78 Resp: 346

Ion	Ratio	Lower	Upper
78	100		
77	197.1	18.6	28.0#
50	109.0	16.2	24.4#

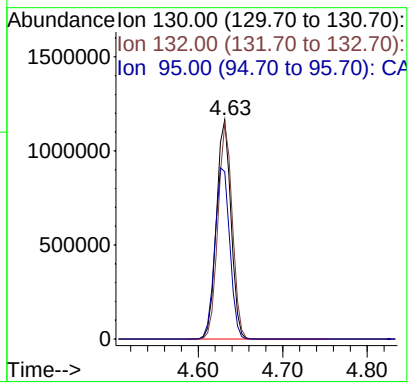


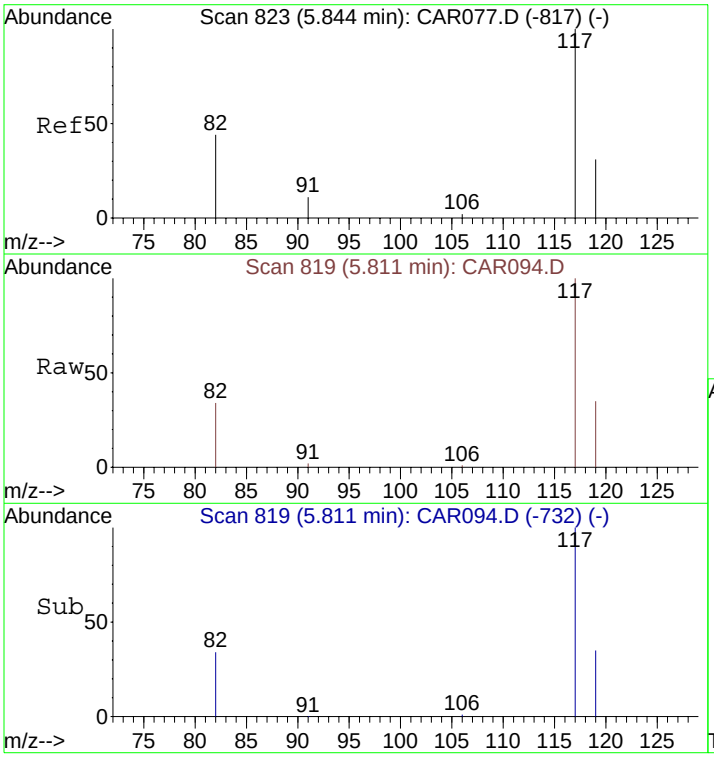


#11
Trichloroethene
Concen: 66187.06 ppbv
RT: 4.63 min Scan# 573
Delta R.T. 0.01 min
Lab File: CAR094.D
Acq: 17 Sep 2008 13:47

Tgt Ion:130 Resp: 1388513

Ion	Ratio	Lower	Upper
130	100		
132	96.9	73.8	110.6
95	80.6	72.5	108.7

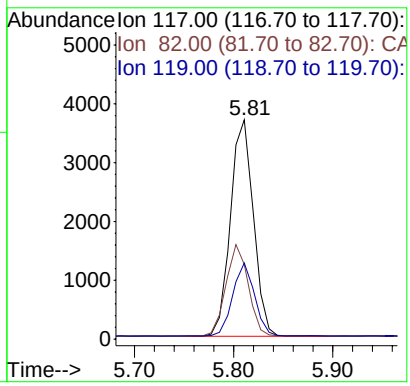


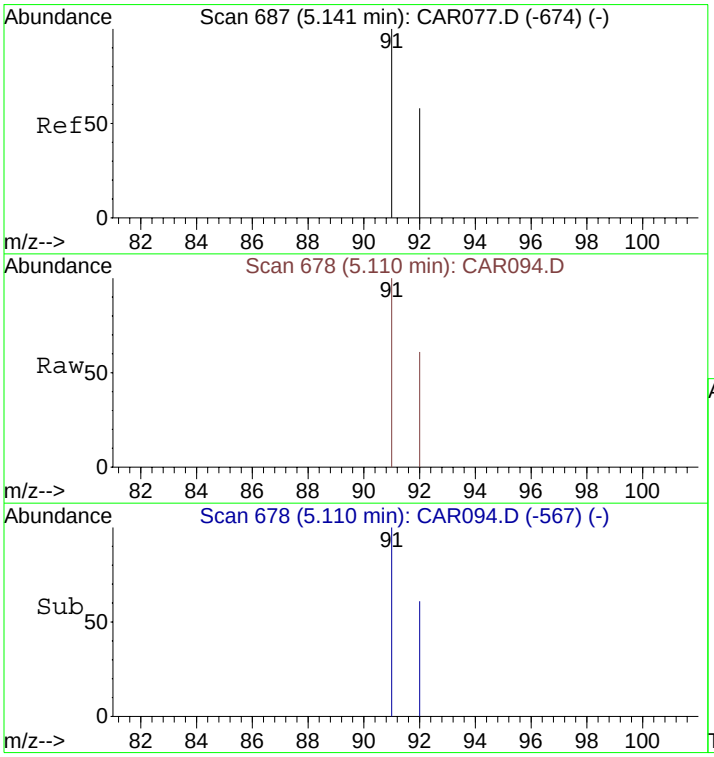


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.81 min Scan# 819
Delta R.T. 0.02 min
Lab File: CAR094.D
Acq: 17 Sep 2008 13:47

Tgt Ion:117 Resp: 5943

Ion	Ratio	Lower	Upper
117	100		
82	41.4	38.3	57.5
119	32.0	26.0	39.0

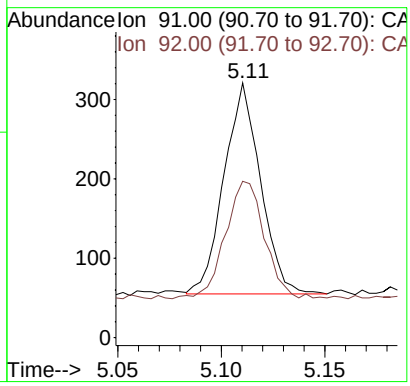


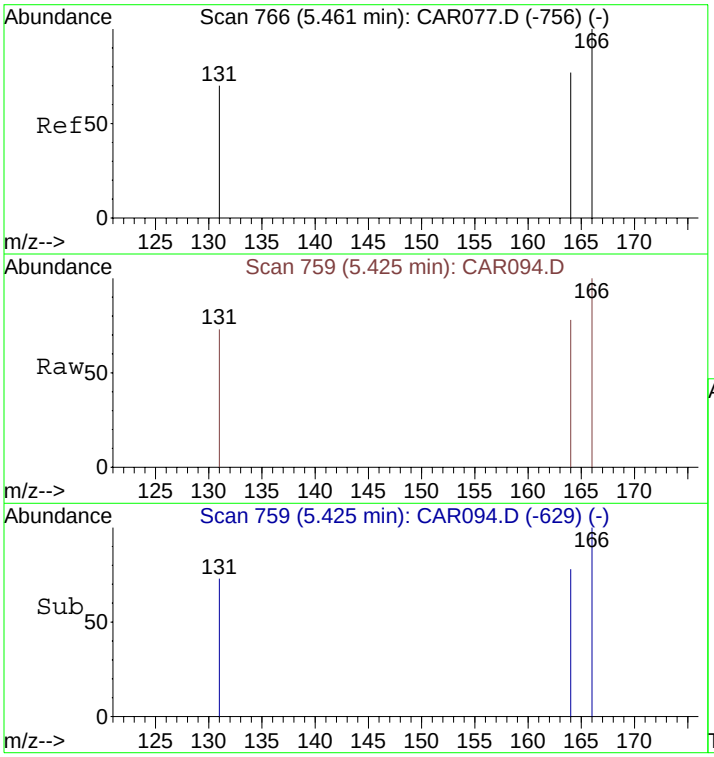


#13
Toluene
Concen: 7.45 ppbv
RT: 5.11 min Scan# 678
Delta R.T. 0.01 min
Lab File: CAR094.D
Acq: 17 Sep 2008 13:47

Tgt Ion: 91 Resp: 326

Ion	Ratio	Lower	Upper
91	100		
92	58.3	48.2	72.2

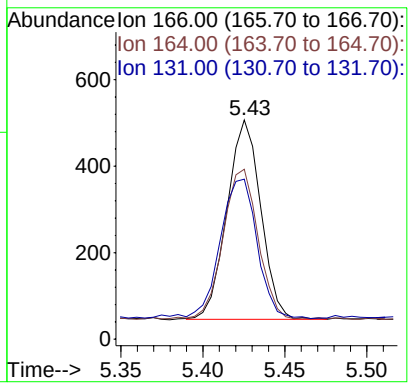




#14
Tetrachloroethene
Concen: 26.41 ppbv
RT: 5.43 min Scan# 759
Delta R.T. 0.01 min
Lab File: CAR094.D
Acq: 17 Sep 2008 13:47

Tgt Ion:166 Resp: 663

Ion	Ratio	Lower	Upper
166	100		
164	76.9	63.1	94.7
131	75.6	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR095.D Vial: 1
Acq On : 17 Sep 2008 14:00 Operator: dlm
Sample : 51423\B8-SG Inst : Instrumen
Misc : 0.05 ml\17 Sep 2008 Multiplr: 100.00
MS Integration Params: rteint.p
Quant Time: Sep 17 14:11:47 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.13	49	1915	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.46	114	5979	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.80	117	5904	10.00 ppbv	0.00

Target Compounds					Qvalue
5) trans-1,2-Dichloroethene	3.62	61	575	340.01 ppbv	92
7) cis-1,2-Dichloroethene	4.02	61	29035	17515.30 ppbv	85
8) 1,1,1-Trichloroethane	4.25	97	71	27.66 ppbv #	72
10) Benzene	4.40	78	199m	57.42 ppbv	
11) Trichloroethene	4.63	130	333463	163526.43 ppbv *	95
13) Toluene	5.10	91	196	45.10 ppbv	95
14) Tetrachloroethene	5.42	166	362	145.15 ppbv	97
15) Ethylbenzene	5.84	91	44	8.56 ppbv #	42
16) m&p-Xylenes	5.88	91	97	26.33 ppbv	96

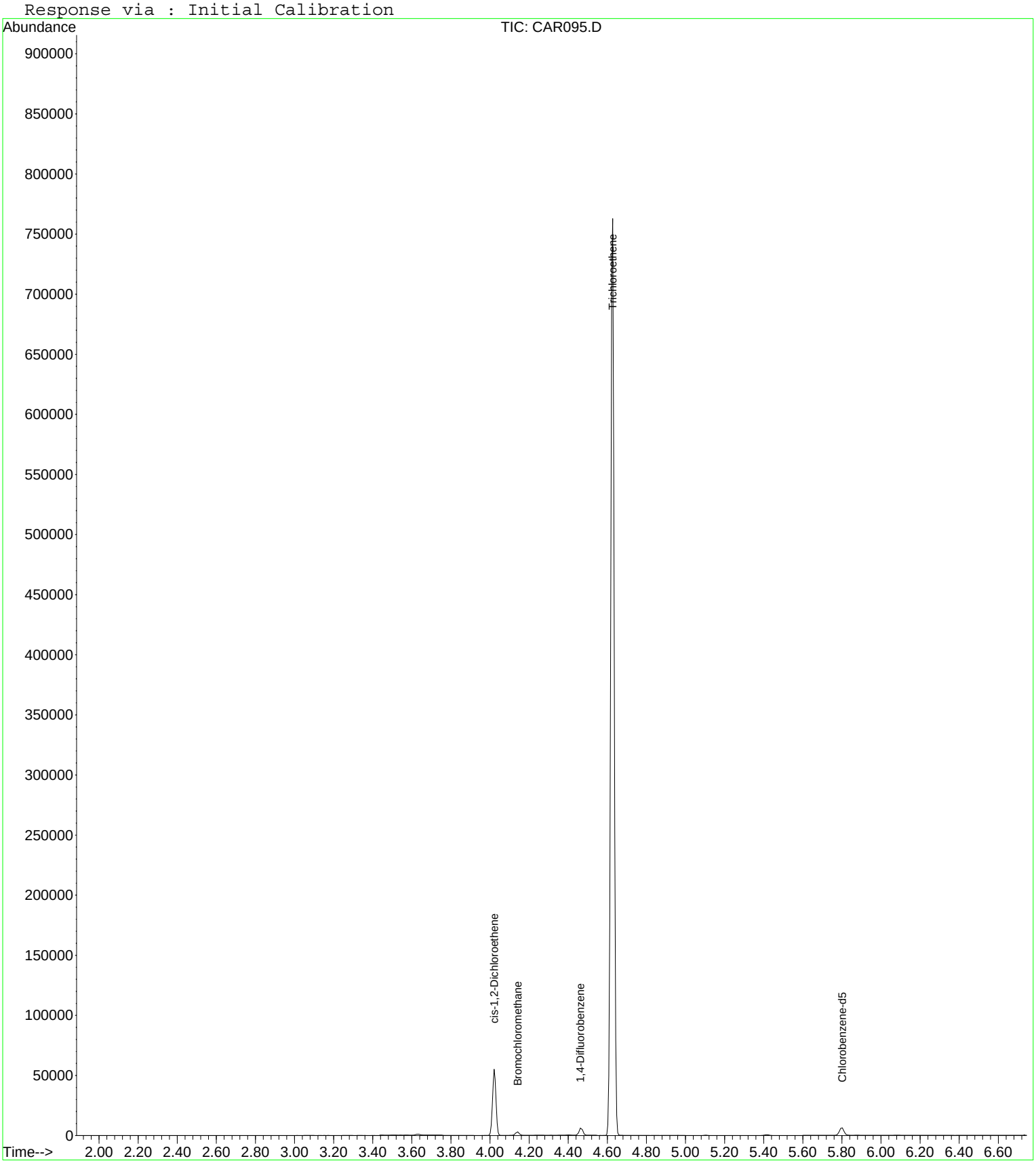
* Value reported in file CAR054

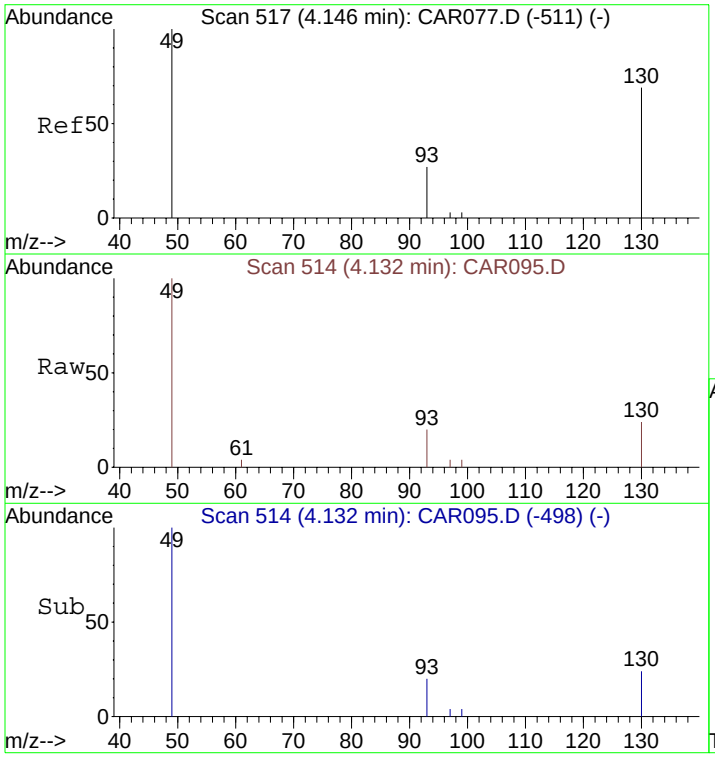
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR095.D Vial: 1
Acq On : 17 Sep 2008 14:00 Operator: dlm
Sample : 51423\B8-SG Inst : Instrumen
Misc : 0.05 ml\17 Sep 2008 Multiplr: 100.00
MS Integration Params: rteint.p
Quant Time: Sep 17 13:19 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:13:30 2008
Response via : Initial Calibration

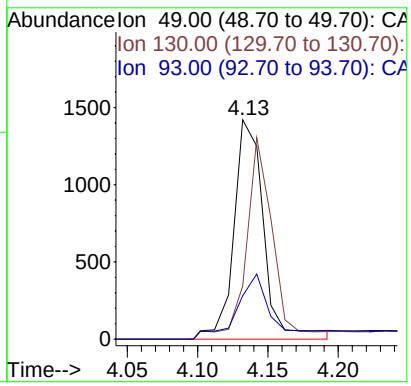


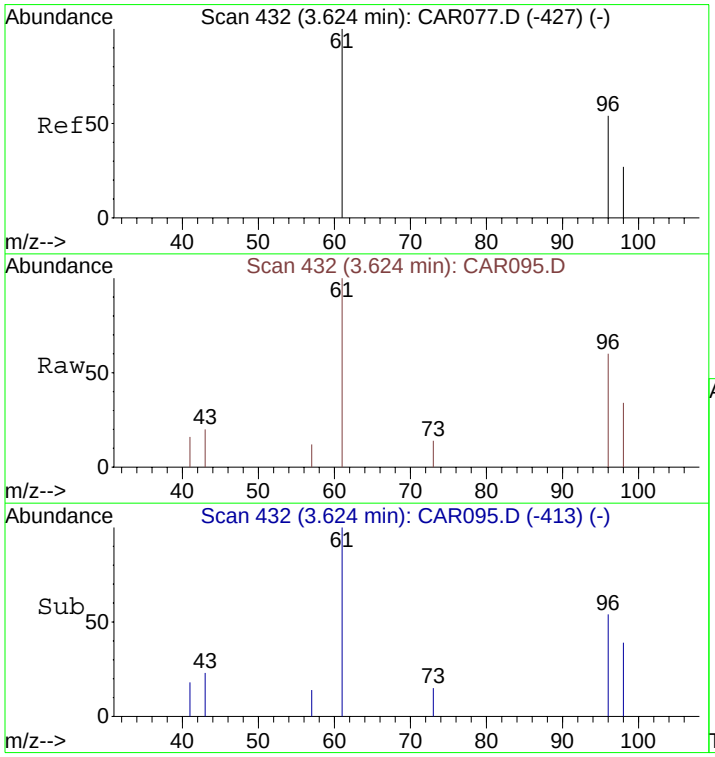


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.13 min Scan# 514
Delta R.T. -0.00 min
Lab File: CAR095.D
Acq: 17 Sep 2008 14:00

Tgt Ion: 49 Resp: 1915

Ion	Ratio	Lower	Upper
49	100		
130	79.5	65.1	97.7
93	33.5	33.8	50.6#

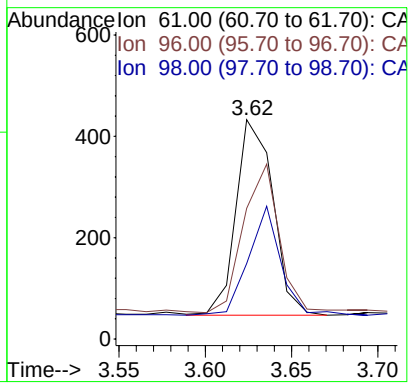


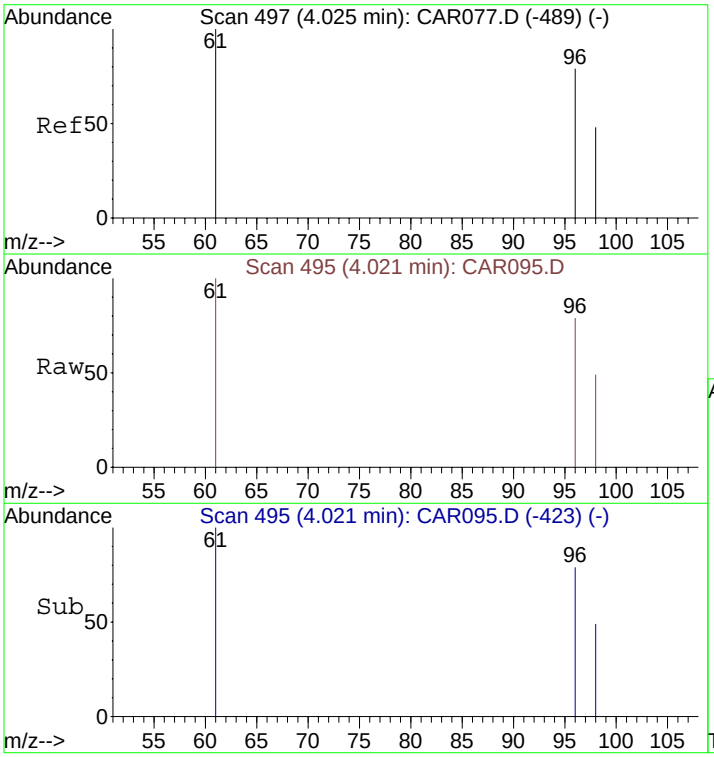


#5
trans-1,2-Dichloroethene
Concen: 340.01 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR095.D
Acq: 17 Sep 2008 14:00

Tgt Ion: 61 Resp: 575

Ion	Ratio	Lower	Upper
61	100		
96	75.5	55.0	82.4
98	48.7	35.6	53.4

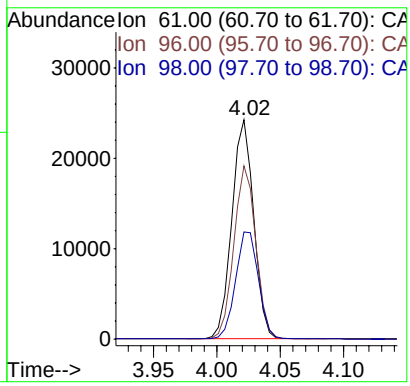


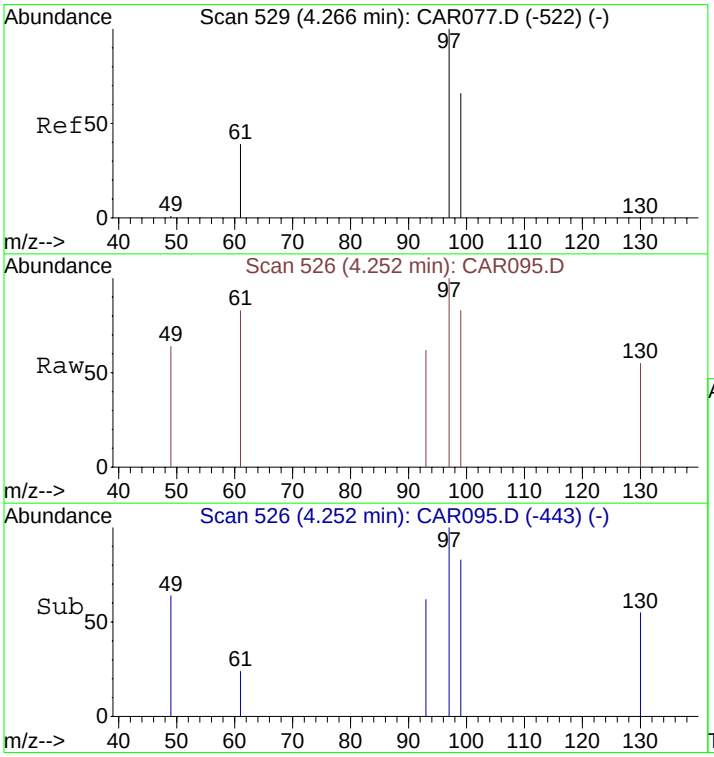


#7
cis-1,2-Dichloroethene
Concen: 17515.30 ppbv
RT: 4.02 min Scan# 495
Delta R.T. 0.00 min
Lab File: CAR095.D
Acq: 17 Sep 2008 14:00

Tgt Ion: 61 Resp: 29035

Ion	Ratio	Lower	Upper
61	100		
96	83.4	56.0	84.0
98	54.1	36.2	54.4

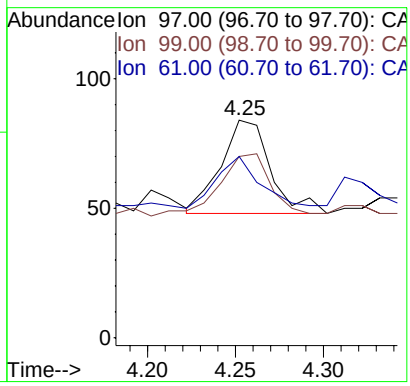


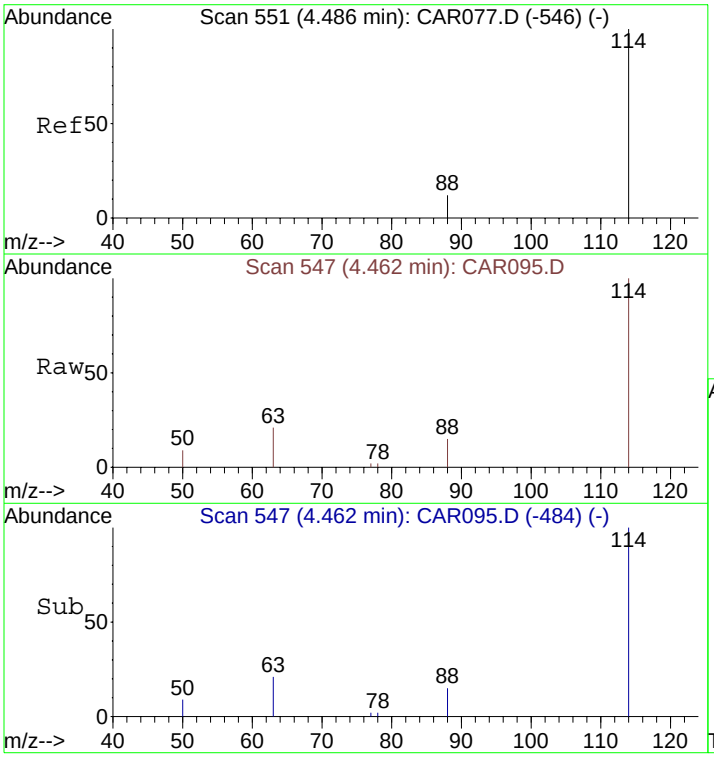


#8
1,1,1-Trichloroethane
Concen: 27.66 ppbv
RT: 4.25 min Scan# 526
Delta R.T. -0.00 min
Lab File: CAR095.D
Acq: 17 Sep 2008 14:00

Tgt Ion: 97 Resp: 71

Ion	Ratio	Lower	Upper
97	100		
99	60.6	51.8	77.8
61	0.0	32.1	48.1#

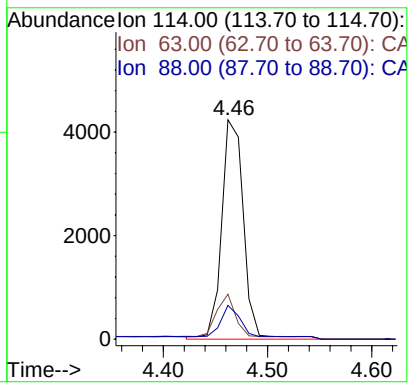


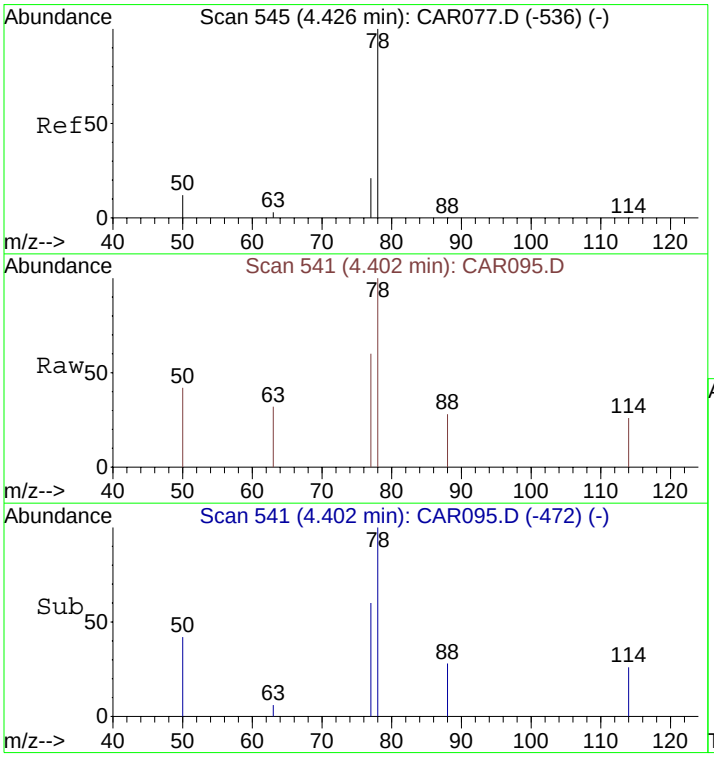


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.46 min Scan# 547
Delta R.T. -0.00 min
Lab File: CAR095.D
Acq: 17 Sep 2008 14:00

Tgt Ion:114 Resp: 5979

Ion	Ratio	Lower	Upper
114	100		
63	22.6	15.8	23.8
88	13.2	12.2	18.2

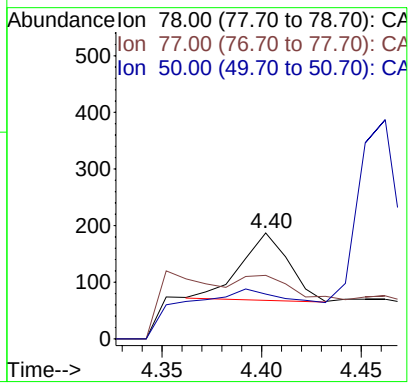


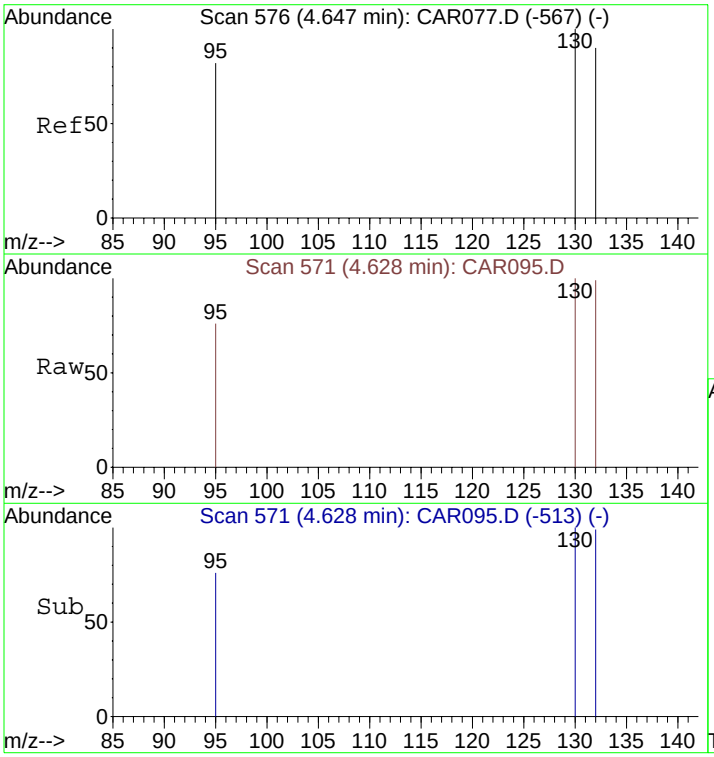


#10
Benzene
Concen: 57.42 ppbv m
RT: 4.40 min Scan# 541
Delta R.T. -0.00 min
Lab File: CAR095.D
Acq: 17 Sep 2008 14:00

Tgt Ion: 78 Resp: 199

Ion	Ratio	Lower	Upper
78	100		
77	124.6	18.6	28.0#
50	192.5	16.2	24.4#

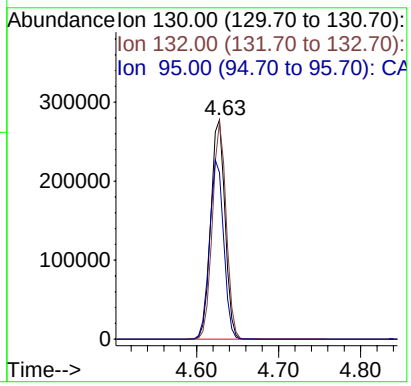


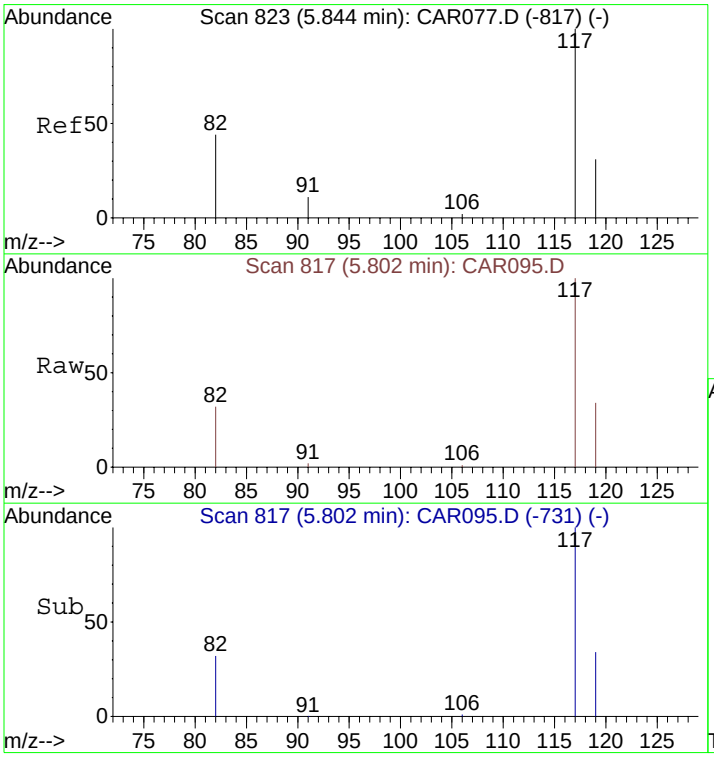


#11
Trichloroethene
Concen: 163526.43 ppbv
RT: 4.63 min Scan# 571
Delta R.T. 0.00 min
Lab File: CAR095.D
Acq: 17 Sep 2008 14:00

Tgt Ion:130 Resp: 333463

Ion	Ratio	Lower	Upper
130	100		
132	96.4	73.8	110.6
95	86.0	72.5	108.7

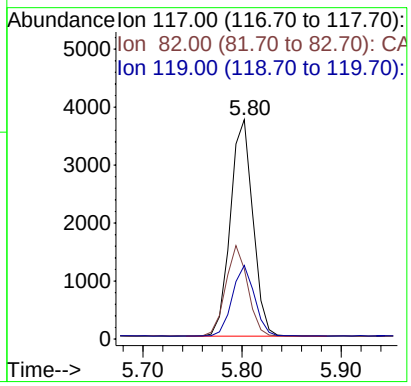


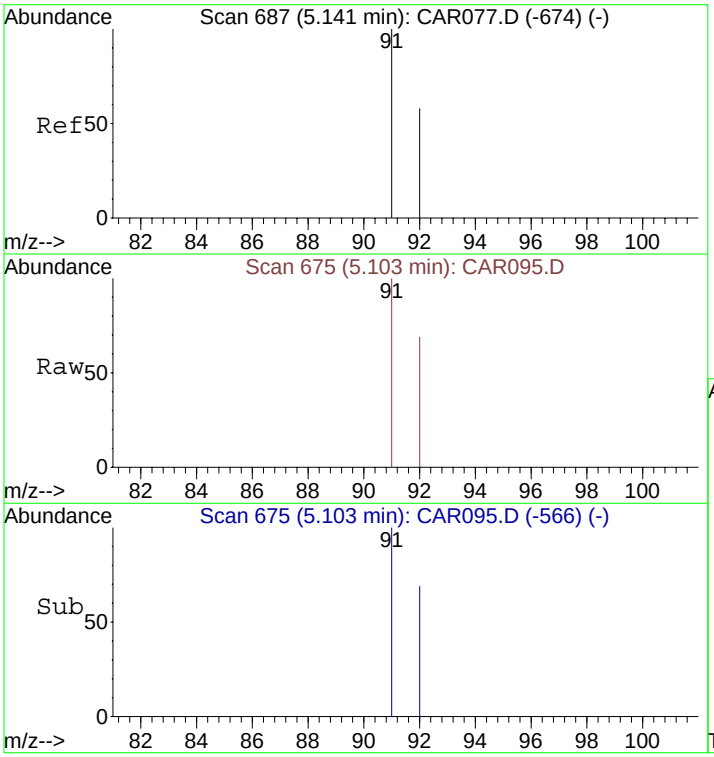


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.80 min Scan# 817
Delta R.T. 0.01 min
Lab File: CAR095.D
Acq: 17 Sep 2008 14:00

Tgt Ion:117 Resp: 5904

Ion	Ratio	Lower	Upper
117	100		
82	40.7	38.3	57.5
119	33.4	26.0	39.0

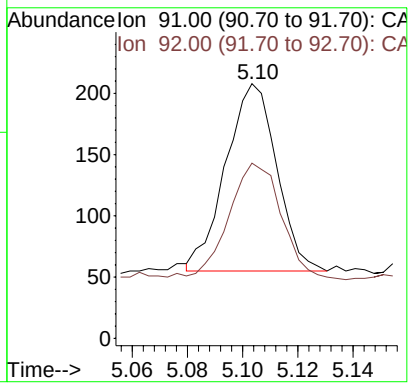


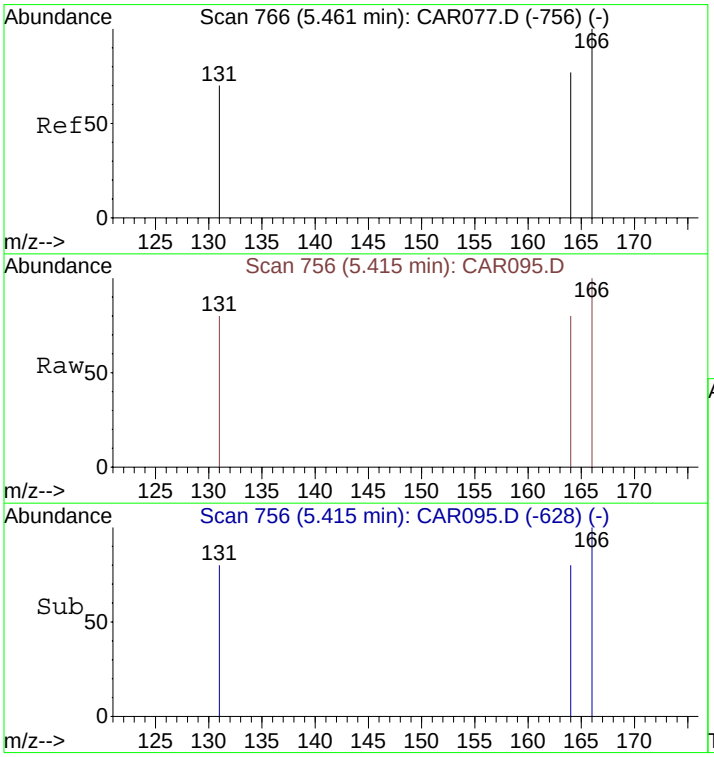


#13
Toluene
Concen: 45.10 ppbv
RT: 5.10 min Scan# 675
Delta R.T. 0.00 min
Lab File: CAR095.D
Acq: 17 Sep 2008 14:00

Tgt Ion: 91 Resp: 196

Ion	Ratio	Lower	Upper
91	100		
92	63.8	48.2	72.2

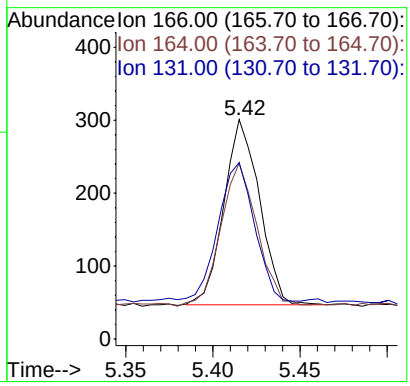


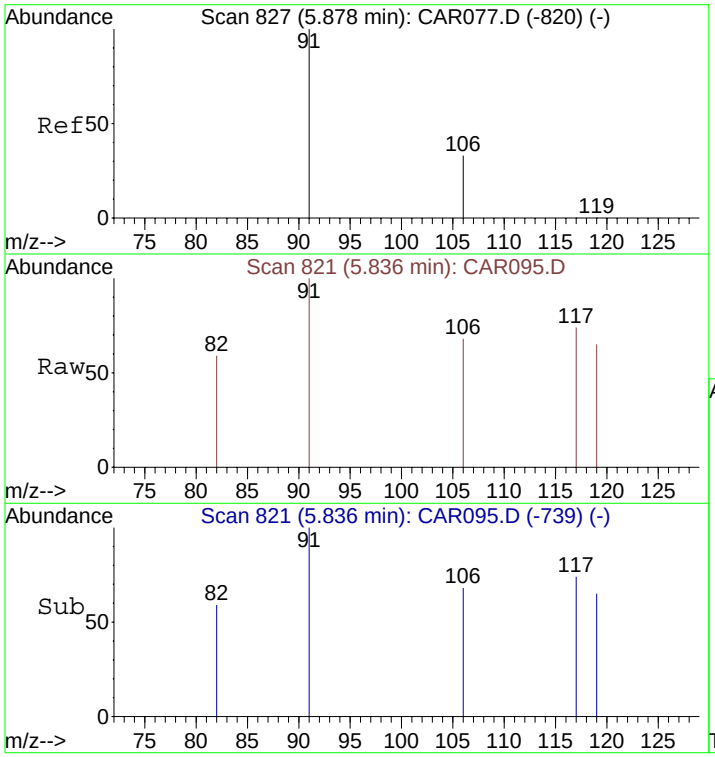


#14
Tetrachloroethene
Concen: 145.15 ppbv
RT: 5.42 min Scan# 756
Delta R.T. 0.00 min
Lab File: CAR095.D
Acq: 17 Sep 2008 14:00

Tgt Ion:166 Resp: 362

Ion	Ratio	Lower	Upper
166	100		
164	76.5	63.1	94.7
131	75.4	62.9	94.3

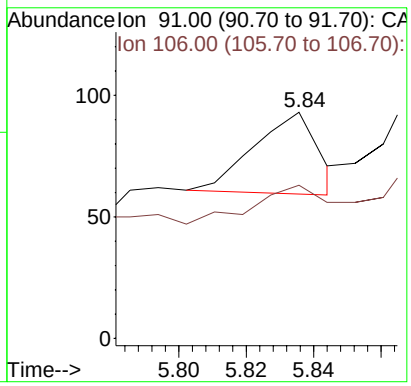


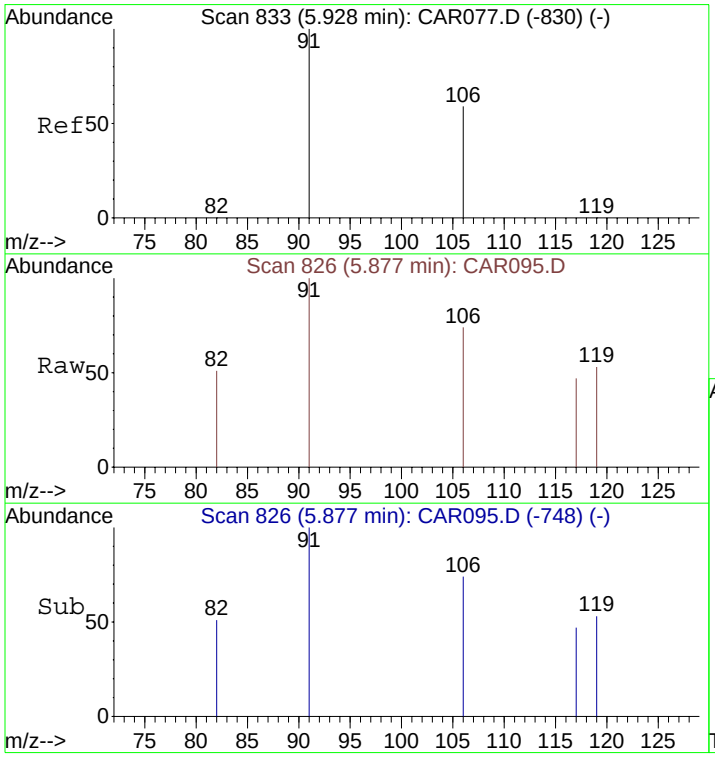


#15
Ethylbenzene
Concen: 8.56 ppbv
RT: 5.84 min Scan# 821
Delta R.T. 0.01 min
Lab File: CAR095.D
Acq: 17 Sep 2008 14:00

Tgt Ion: 91 Resp: 44

Ion	Ratio	Lower	Upper
91	100		
106	0.0	26.3	39.5#

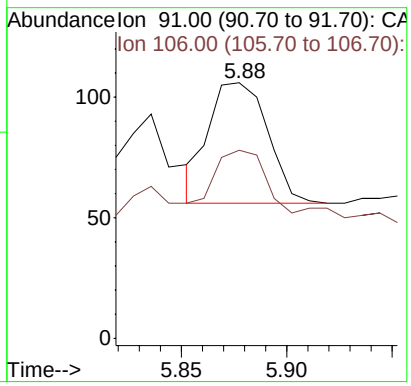




#16
m&p-Xylenes
Concen: 26.33 ppbv
RT: 5.88 min Scan# 826
Delta R.T. 0.00 min
Lab File: CAR095.D
Acq: 17 Sep 2008 14:00

Tgt Ion: 91 Resp: 97

Ion	Ratio	Lower	Upper
91	100		
106	49.5	41.8	62.8



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR096.D Vial: 1
Acq On : 17 Sep 2008 14:13 Operator: dlm
Sample : 51424\B6-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 14:23:32 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1910	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	5880	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.80	117	5772	10.00 ppbv	0.00

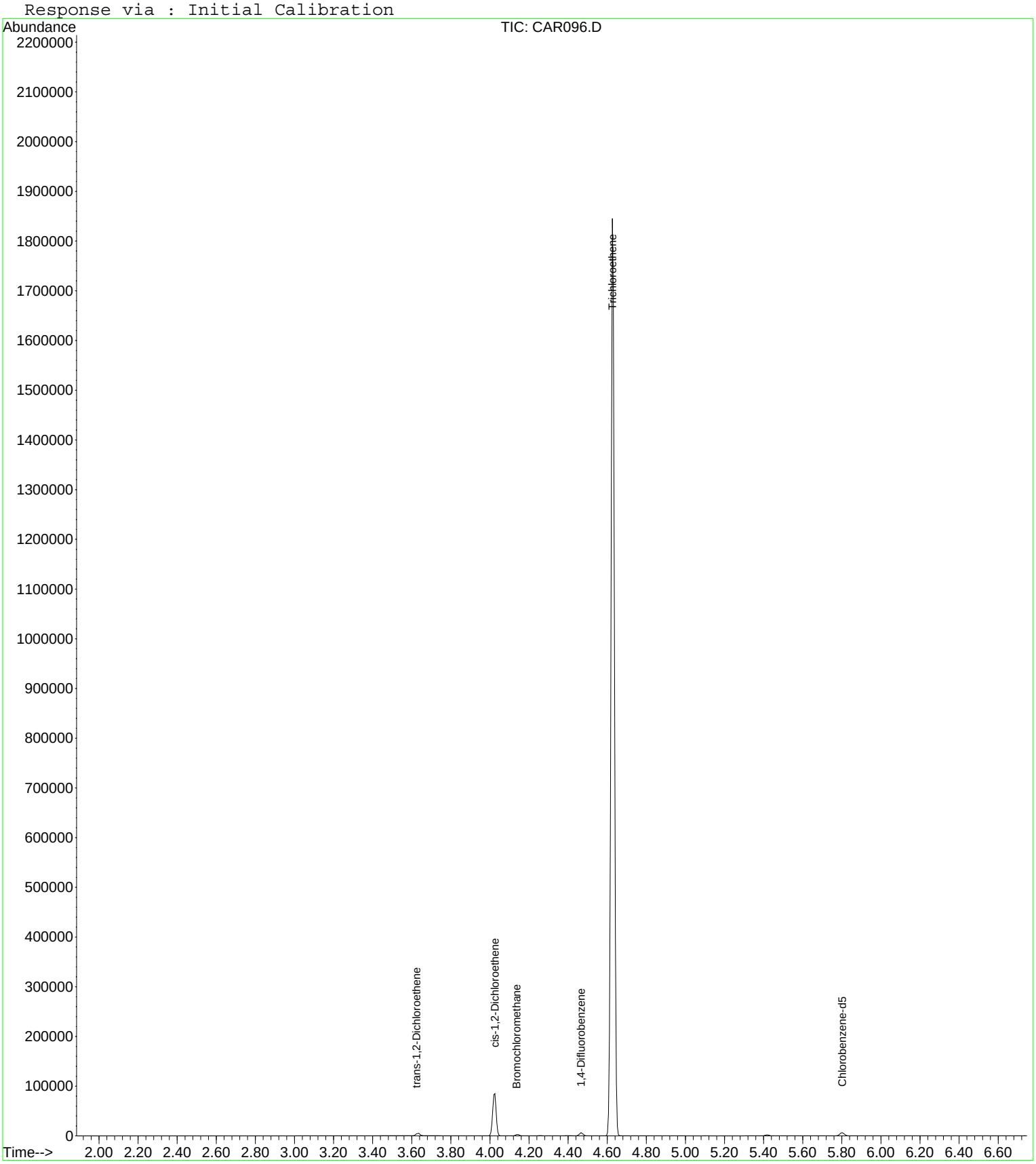
Target Compounds					Qvalue
5) trans-1,2-Dichloroethene	3.62	61	3648	216.28 ppbv	92
6) 1,1-Dichloroethane	3.79	63	128m	6.04 ppbv	
7) cis-1,2-Dichloroethene	4.02	61	48189	2914.60 ppbv	90
8) 1,1,1-Trichloroethane	4.26	97	314	12.26 ppbv #	1
10) Benzene	4.41	78	194m	5.69 ppbv	
11) Trichloroethene	4.63	130	796963	39740.17 ppbv	93
14) Tetrachloroethene	5.42	166	1174	48.15 ppbv	99

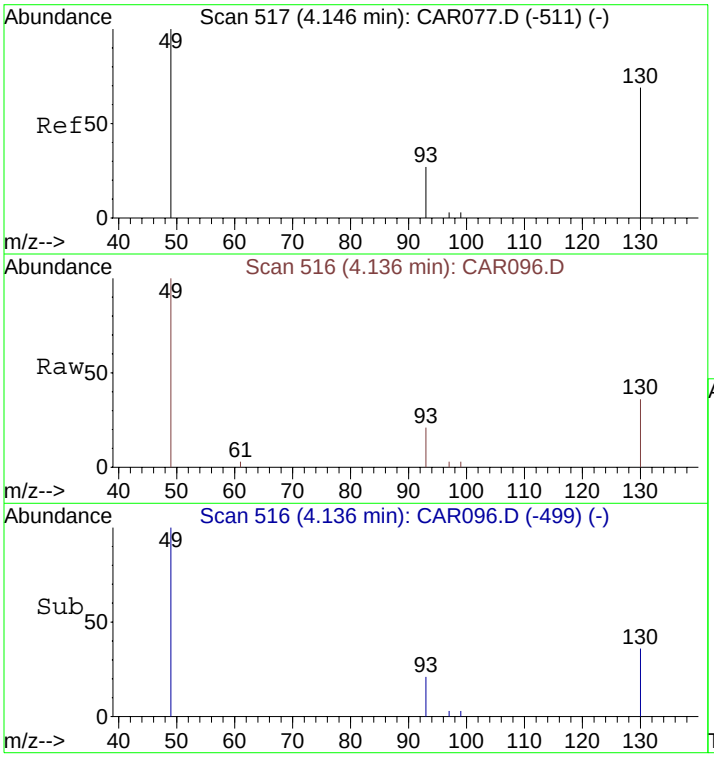
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR096.D Vial: 1
Acq On : 17 Sep 2008 14:13 Operator: dlm
Sample : 51424\B6-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 14:33 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

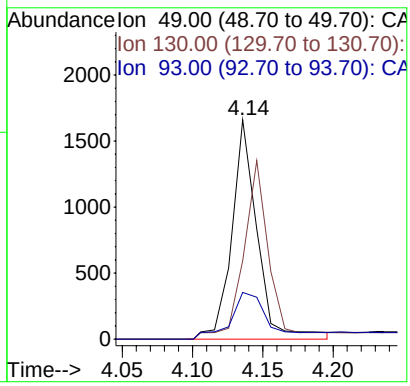


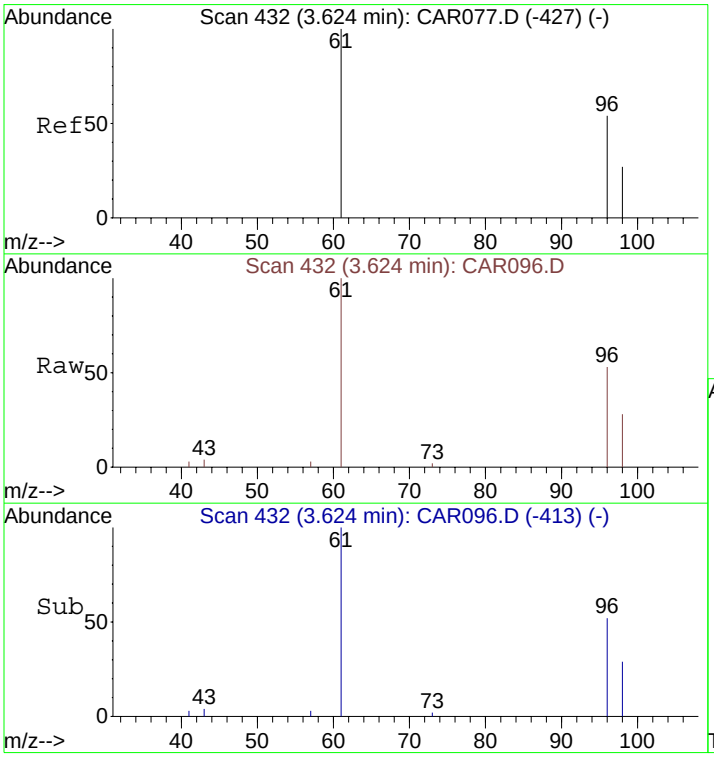


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR096.D
Acq: 17 Sep 2008 14:13

Tgt Ion: 49 Resp: 1910

Ion	Ratio	Lower	Upper
49	100		
130	79.6	65.1	97.7
93	33.4	33.8	50.6#

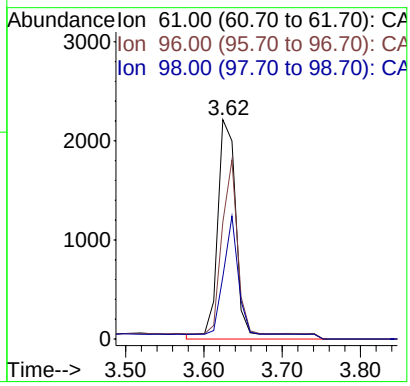


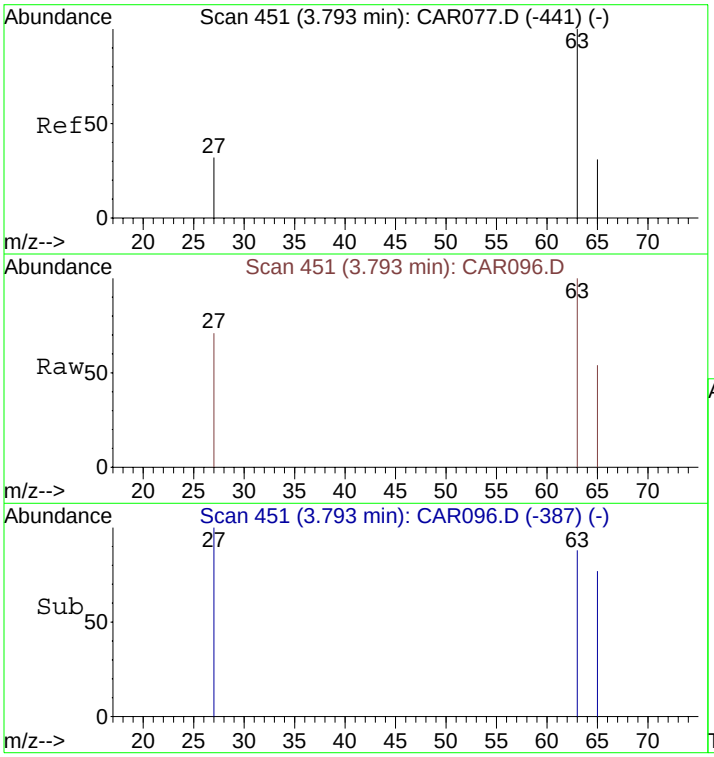


#5
trans-1,2-Dichloroethene
Concen: 216.28 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR096.D
Acq: 17 Sep 2008 14:13

Tgt Ion: 61 Resp: 3648

Ion	Ratio	Lower	Upper
61	100		
96	64.8	55.0	82.4
98	52.8	35.6	53.4

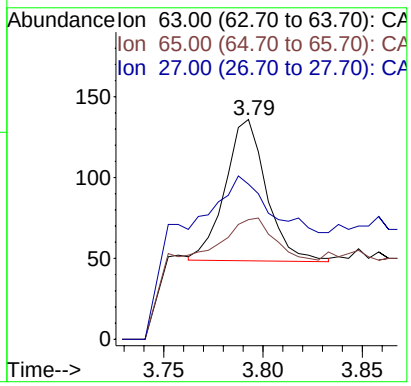


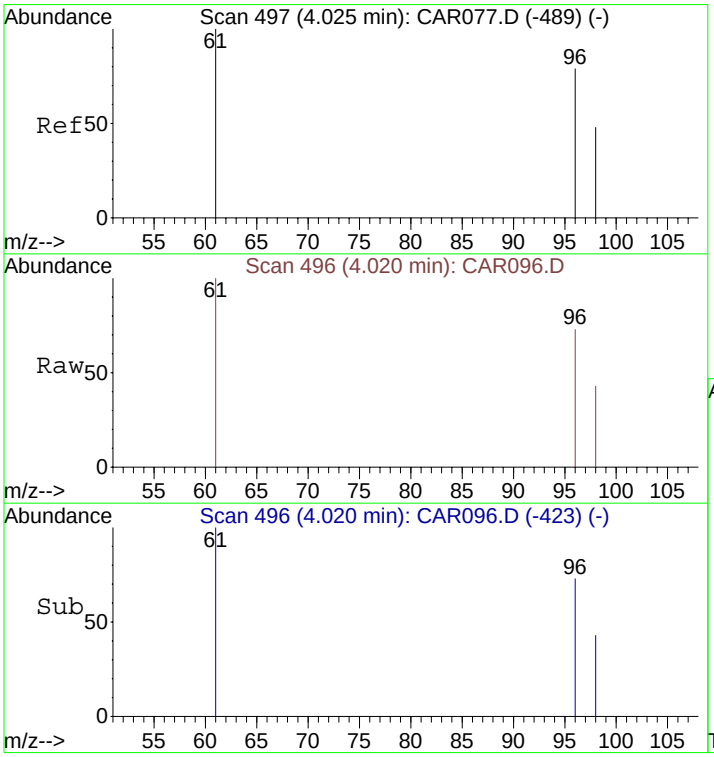


#6
1,1-Dichloroethane
Concen: 6.04 ppbv m
RT: 3.79 min Scan# 451
Delta R.T. 0.00 min
Lab File: CAR096.D
Acq: 17 Sep 2008 14:13

Tgt Ion: 63 Resp: 128

Ion	Ratio	Lower	Upper
63	100		
65	255.5	23.5	35.3#
27	343.8	26.7	40.1#

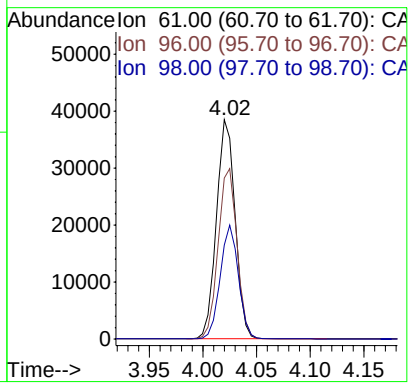


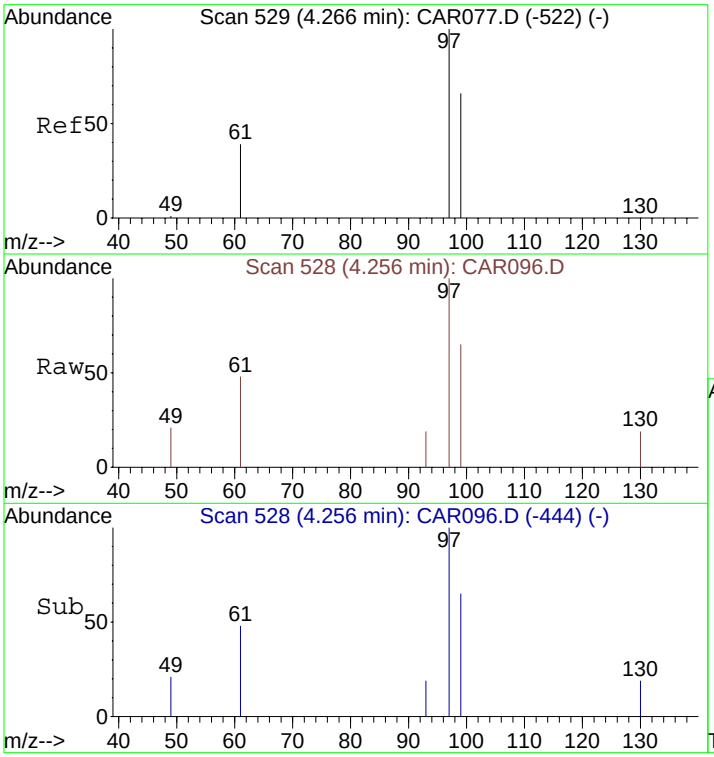


#7
cis-1,2-Dichloroethene
Concen: 2914.60 ppbv
RT: 4.02 min Scan# 496
Delta R.T. 0.00 min
Lab File: CAR096.D
Acq: 17 Sep 2008 14:13

Tgt Ion: 61 Resp: 48189

Ion	Ratio	Lower	Upper
61	100		
96	79.2	56.0	84.0
98	51.4	36.2	54.4

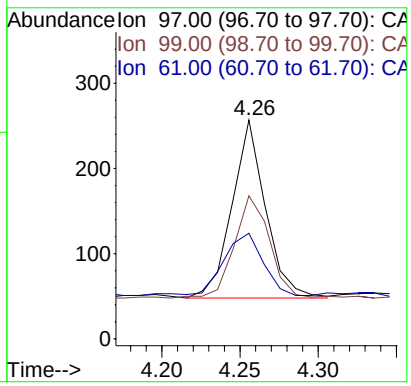


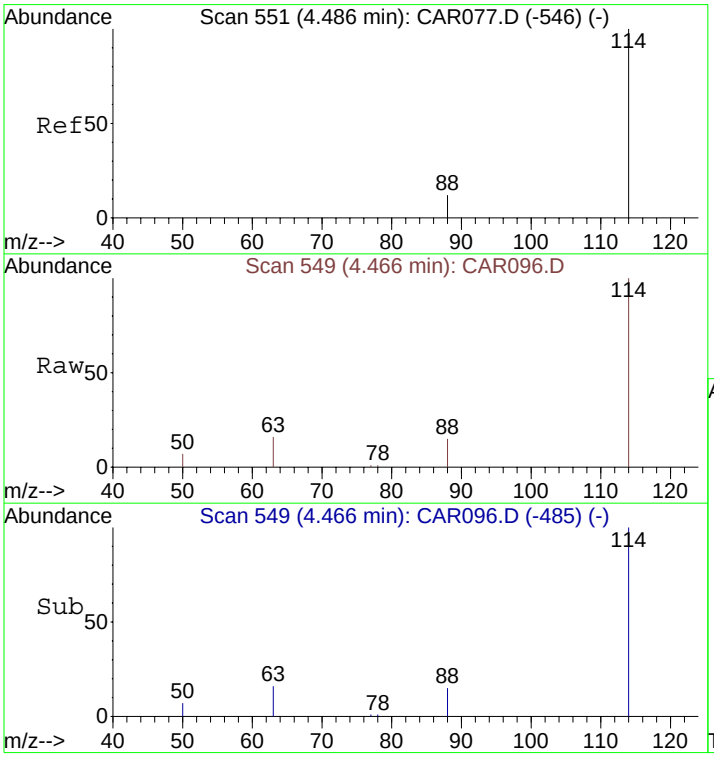


#8
1,1,1-Trichloroethane
Concen: 12.26 ppbv
RT: 4.26 min Scan# 528
Delta R.T. 0.00 min
Lab File: CAR096.D
Acq: 17 Sep 2008 14:13

Tgt Ion: 97 Resp: 314

Ion	Ratio	Lower	Upper
97	100		
99	170.1	51.8	77.8#
61	0.0	32.1	48.1#

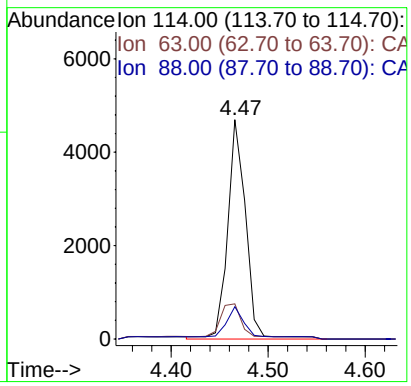


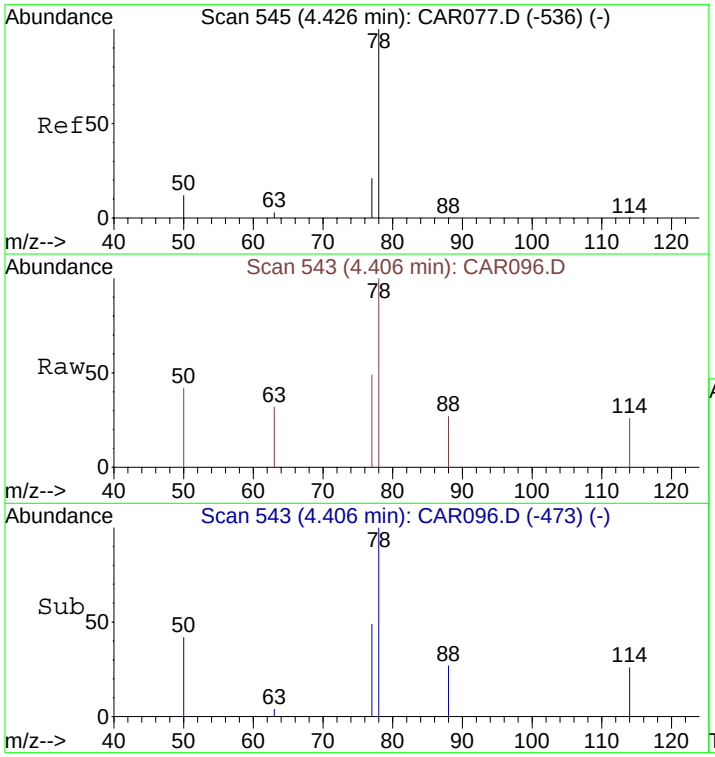


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. 0.00 min
Lab File: CAR096.D
Acq: 17 Sep 2008 14:13

Tgt Ion:114 Resp: 5880

Ion	Ratio	Lower	Upper
114	100		
63	22.3	15.8	23.8
88	13.9	12.2	18.2

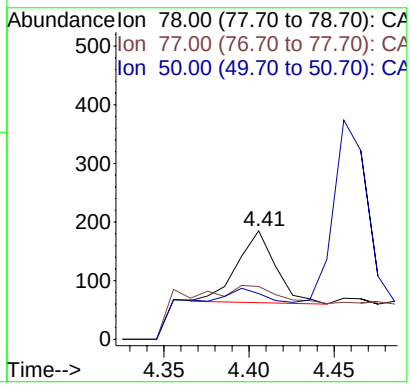


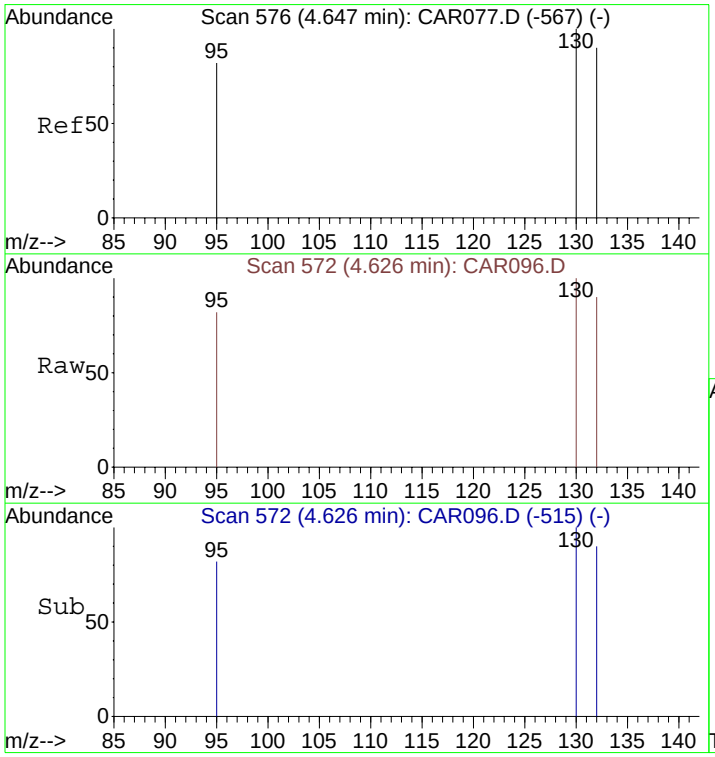


#10
Benzene
Concen: 5.69 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR096.D
Acq: 17 Sep 2008 14:13

Tgt Ion: 78 Resp: 194

Ion	Ratio	Lower	Upper
78	100		
77	274.2	18.6	28.0#
50	175.3	16.2	24.4#

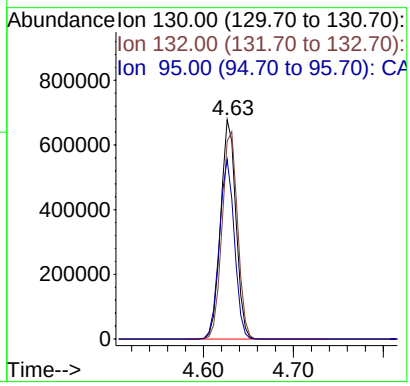


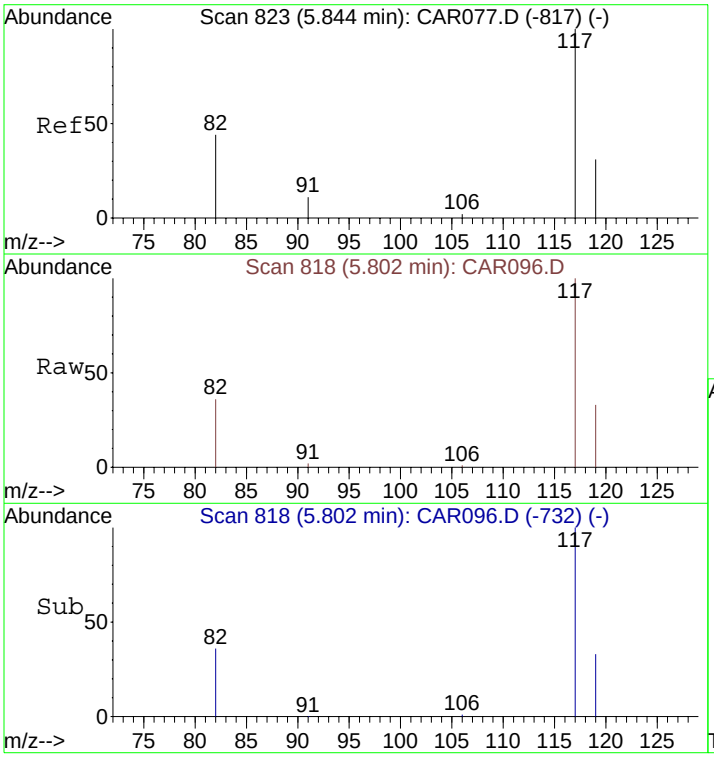


#11
Trichloroethene
Concen: 39740.17 ppbv
RT: 4.63 min Scan# 572
Delta R.T. 0.00 min
Lab File: CAR096.D
Acq: 17 Sep 2008 14:13

Tgt Ion:130 Resp: 796963

Ion	Ratio	Lower	Upper
130	100		
132	96.4	73.8	110.6
95	80.9	72.5	108.7

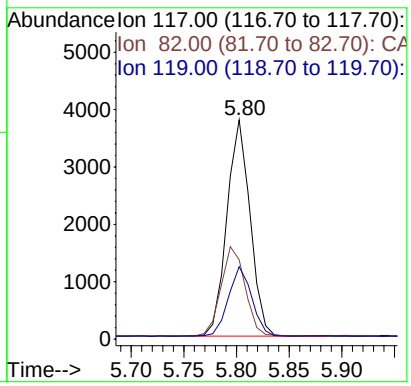


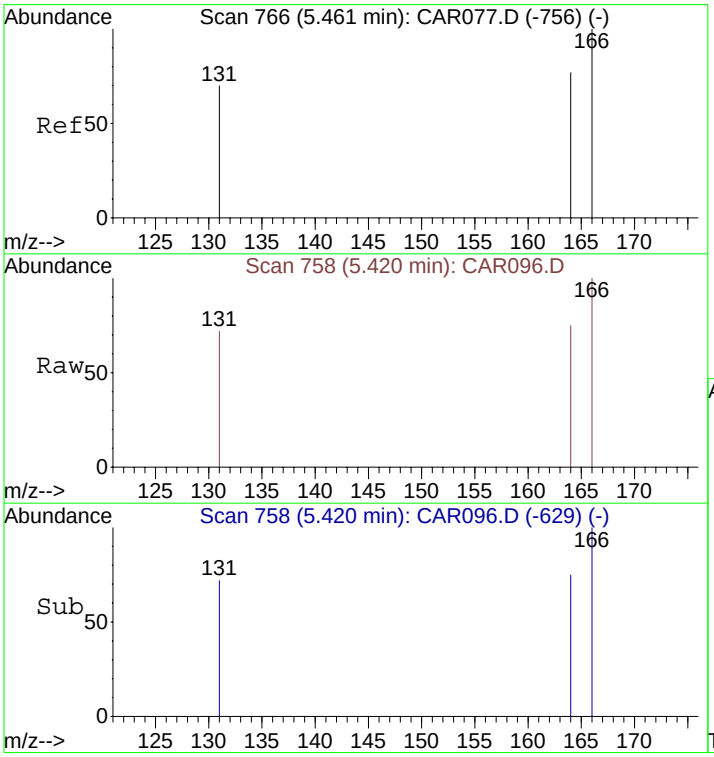


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.80 min Scan# 818
Delta R.T. 0.01 min
Lab File: CAR096.D
Acq: 17 Sep 2008 14:13

Tgt Ion:117 Resp: 5772

Ion	Ratio	Lower	Upper
117	100		
82	43.2	38.3	57.5
119	32.2	26.0	39.0

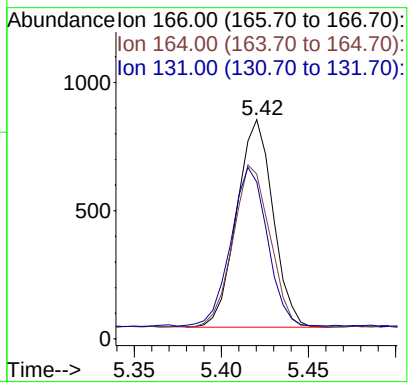




#14
Tetrachloroethene
Concen: 48.15 ppbv
RT: 5.42 min Scan# 758
Delta R.T. 0.01 min
Lab File: CAR096.D
Acq: 17 Sep 2008 14:13

Tgt Ion:166 Resp: 1174

Ion	Ratio	Lower	Upper
166	100		
164	79.0	63.1	94.7
131	76.1	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR097.D Vial: 1
Acq On : 17 Sep 2008 14:25 Operator: dlm
Sample : 51425\D6-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 14:34:50 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1797	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	5816	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.79	117	5749	10.00 ppbv	0.00

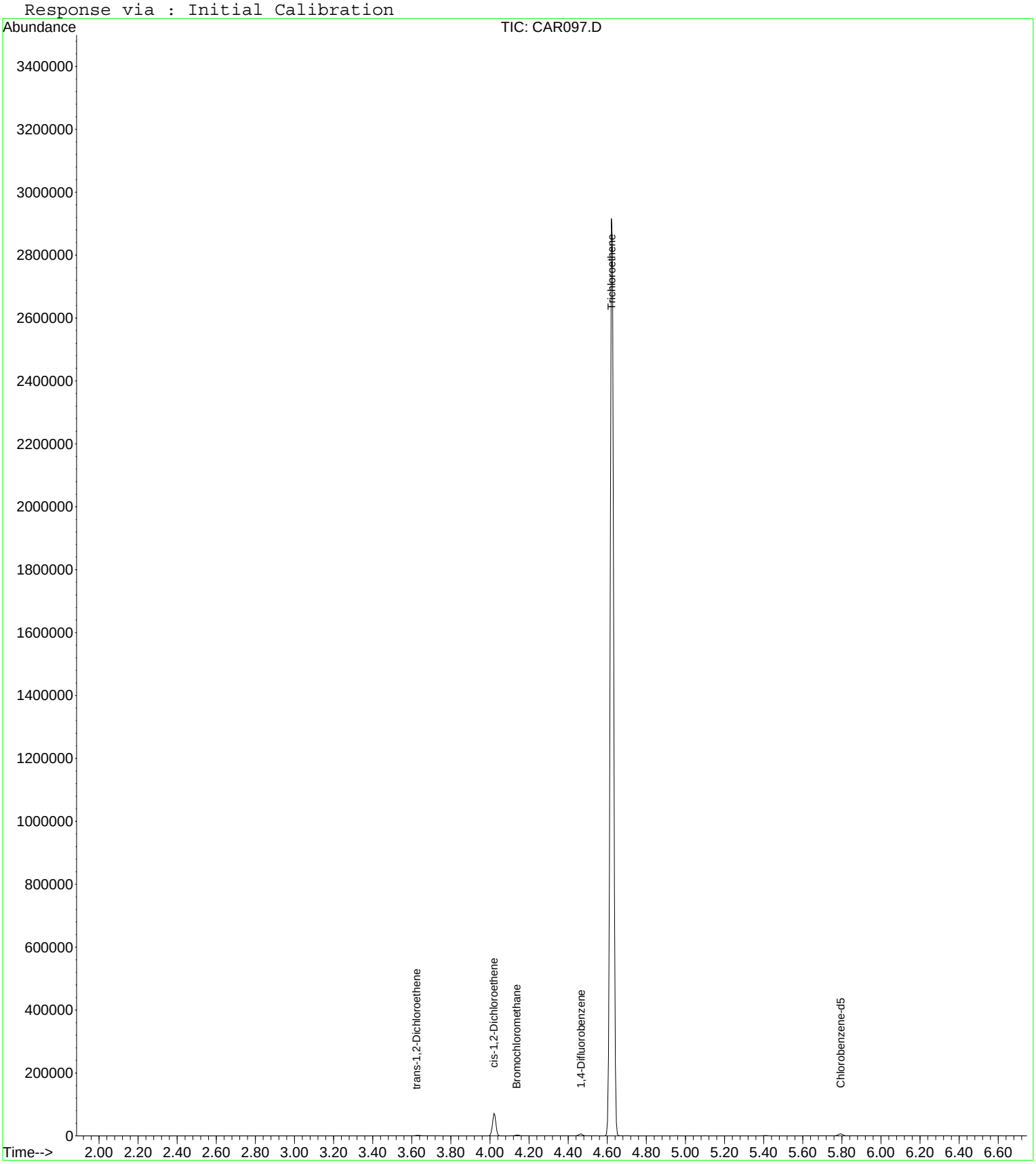
Target Compounds					Qvalue
5) trans-1,2-Dichloroethene	3.62	61	1099	69.25 ppbv #	51
7) cis-1,2-Dichloroethene	4.02	61	39319	2527.66 ppbv	89
10) Benzene	4.41	78	263m	7.80 ppbv	
11) Trichloroethene	4.62	130	1285191	64790.62 ppbv	92
14) Tetrachloroethene	5.41	166	614	25.28 ppbv	94

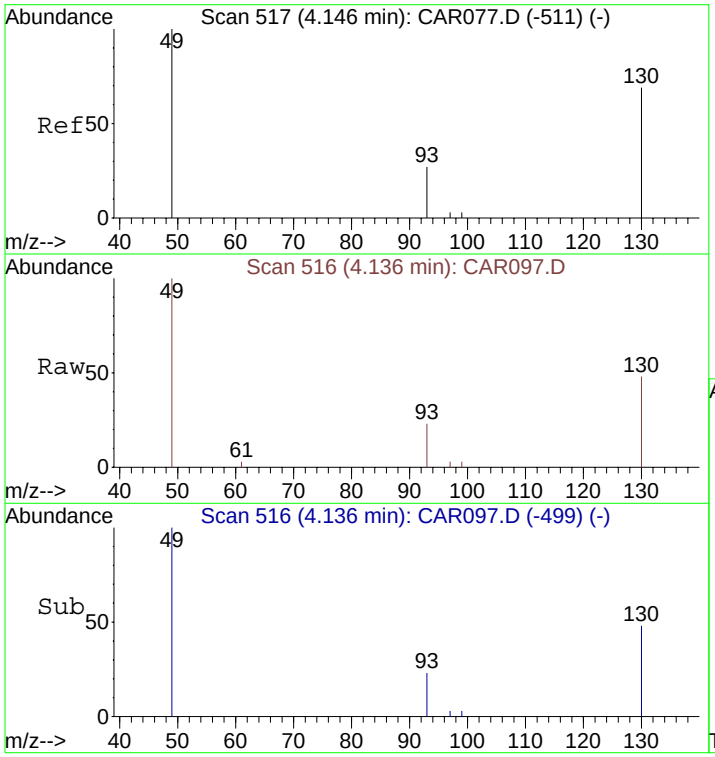
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR097.D Vial: 1
Acq On : 17 Sep 2008 14:25 Operator: dlm
Sample : 51425\D6-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:12 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:13:30 2008
Response via : Initial Calibration

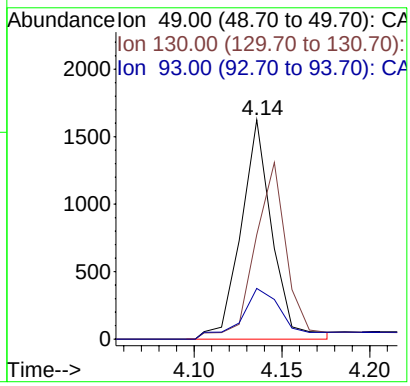


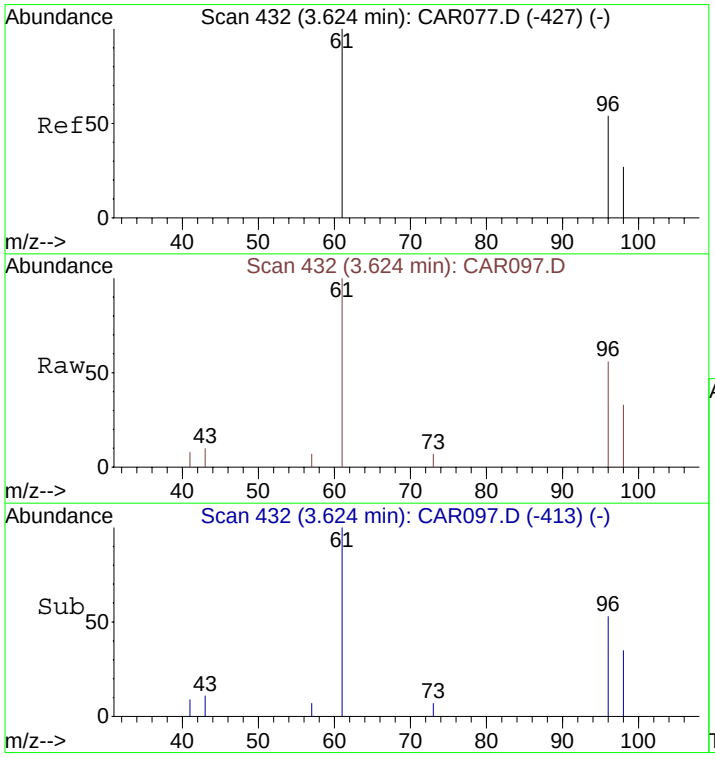


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR097.D
Acq: 17 Sep 2008 14:25

Tgt Ion: 49 Resp: 1797

Ion	Ratio	Lower	Upper
49	100		
130	84.9	65.1	97.7
93	31.9	33.8	50.6#

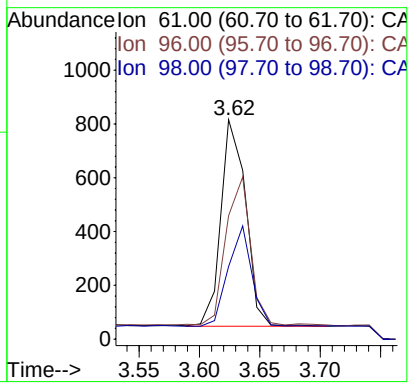


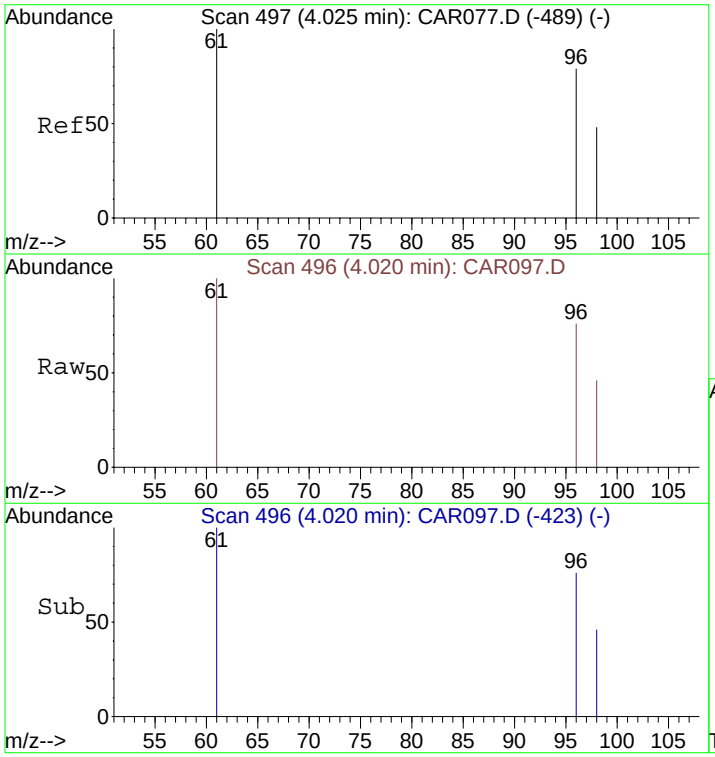


#5
trans-1,2-Dichloroethene
Concen: 69.25 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR097.D
Acq: 17 Sep 2008 14:25

Tgt Ion: 61 Resp: 1099

Ion	Ratio	Lower	Upper
61	100		
96	106.1	55.0	82.4#
98	79.8	35.6	53.4#

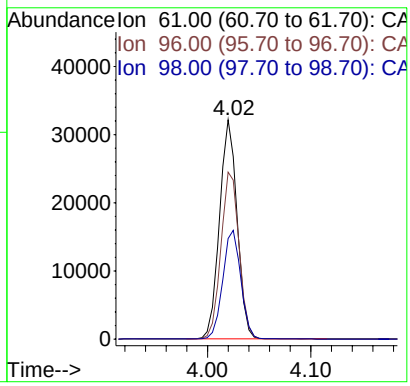


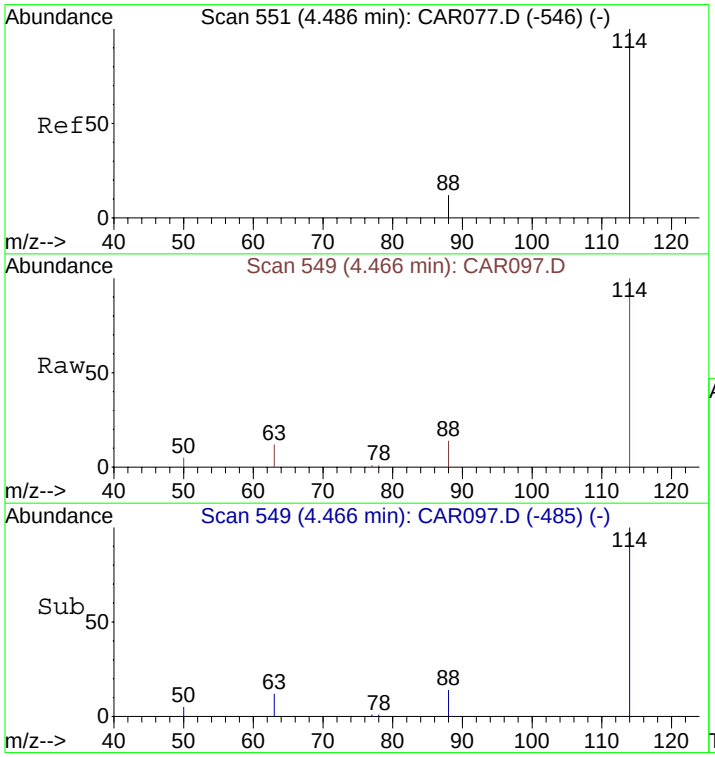


#7
cis-1,2-Dichloroethene
Concen: 2527.66 ppbv
RT: 4.02 min Scan# 496
Delta R.T. 0.00 min
Lab File: CAR097.D
Acq: 17 Sep 2008 14:25

Tgt Ion: 61 Resp: 39319

Ion	Ratio	Lower	Upper
61	100		
96	79.4	56.0	84.0
98	51.6	36.2	54.4

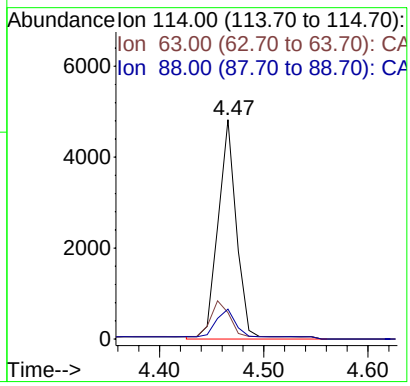


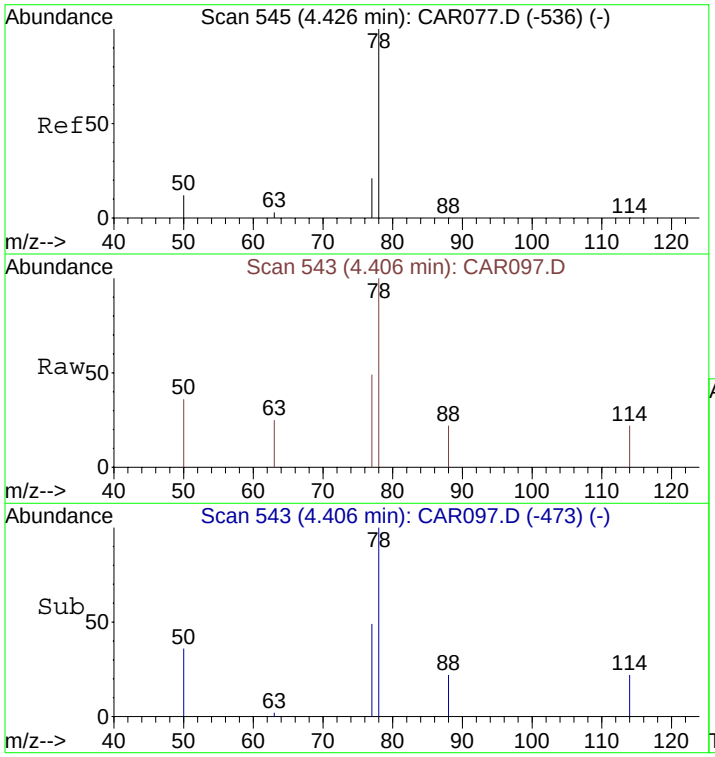


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. 0.00 min
Lab File: CAR097.D
Acq: 17 Sep 2008 14:25

Tgt Ion:114 Resp: 5816

Ion	Ratio	Lower	Upper
114	100		
63	23.0	15.8	23.8
88	14.3	12.2	18.2

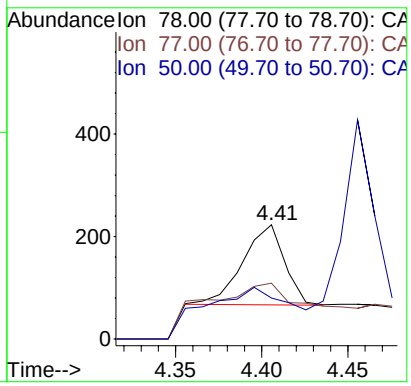


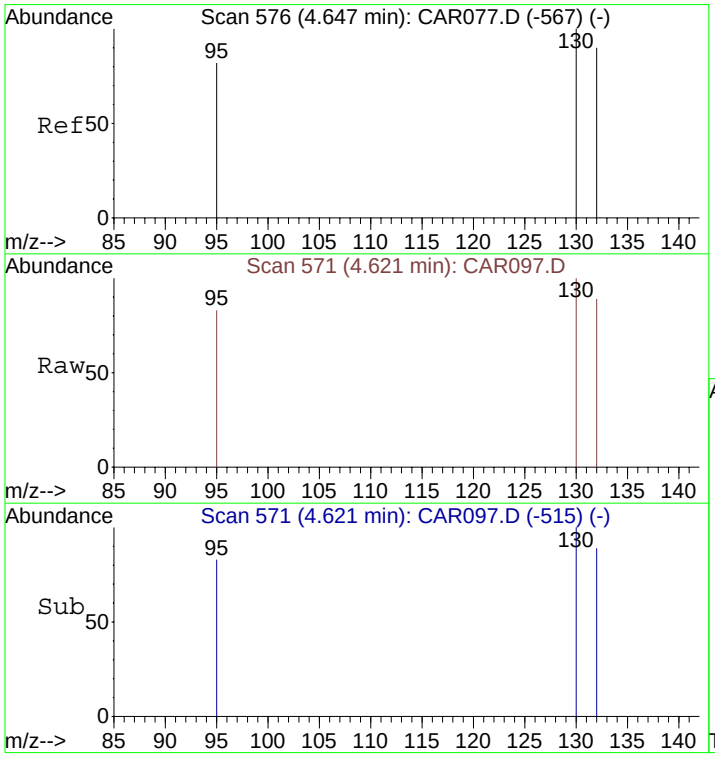


#10
Benzene
Concen: 7.80 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR097.D
Acq: 17 Sep 2008 14:25

Tgt Ion: 78 Resp: 263

Ion	Ratio	Lower	Upper
78	100		
77	193.5	18.6	28.0#
50	133.5	16.2	24.4#

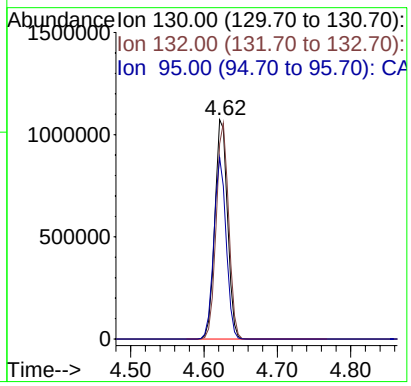


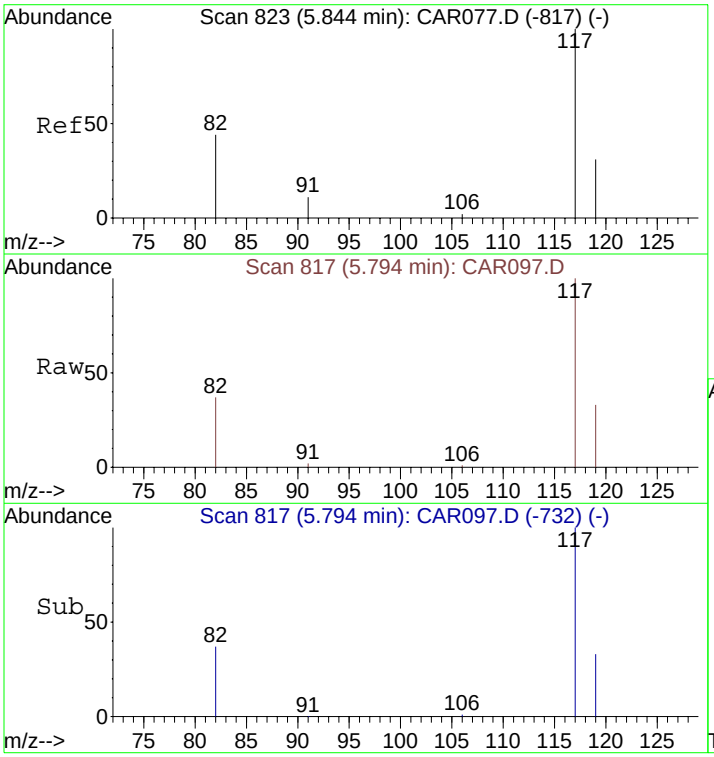


#11
Trichloroethene
Concen: 64790.62 ppbv
RT: 4.62 min Scan# 571
Delta R.T. -0.00 min
Lab File: CAR097.D
Acq: 17 Sep 2008 14:25

Tgt Ion:130 Resp: 1285191

Ion	Ratio	Lower	Upper
130	100		
132	101.4	73.8	110.6
95	84.9	72.5	108.7

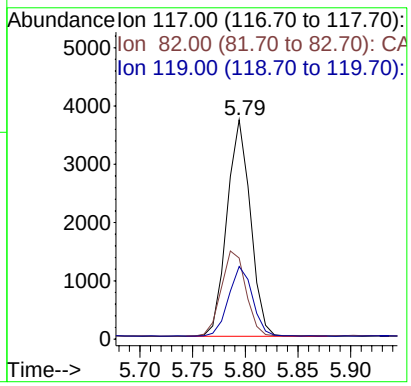


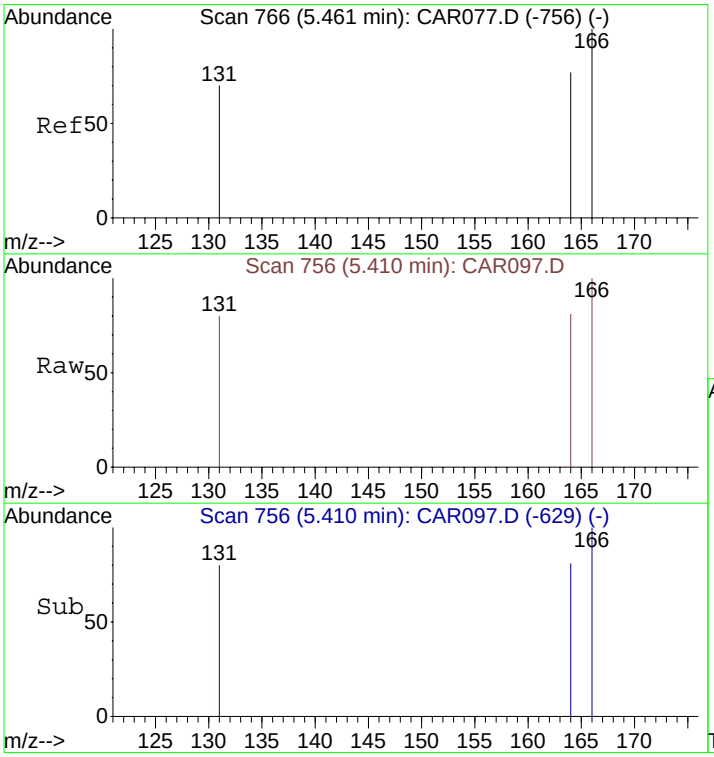


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.79 min Scan# 817
Delta R.T. 0.00 min
Lab File: CAR097.D
Acq: 17 Sep 2008 14:25

Tgt Ion:117 Resp: 5749

Ion	Ratio	Lower	Upper
117	100		
82	41.6	38.3	57.5
119	32.7	26.0	39.0

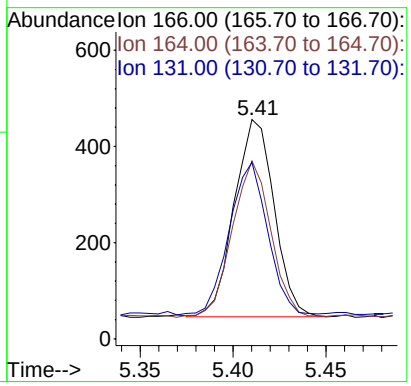




#14
Tetrachloroethene
Concen: 25.28 ppbv
RT: 5.41 min Scan# 756
Delta R.T. -0.00 min
Lab File: CAR097.D
Acq: 17 Sep 2008 14:25

Tgt Ion:166 Resp: 614

Ion	Ratio	Lower	Upper
166	100		
164	75.1	63.1	94.7
131	72.5	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR098.D Vial: 1
Acq On : 17 Sep 2008 14:46 Operator: dlm
Sample : 51426\E5-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 14:54:24 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1789	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	5678	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.79	117	5372	10.00 ppbv	0.00

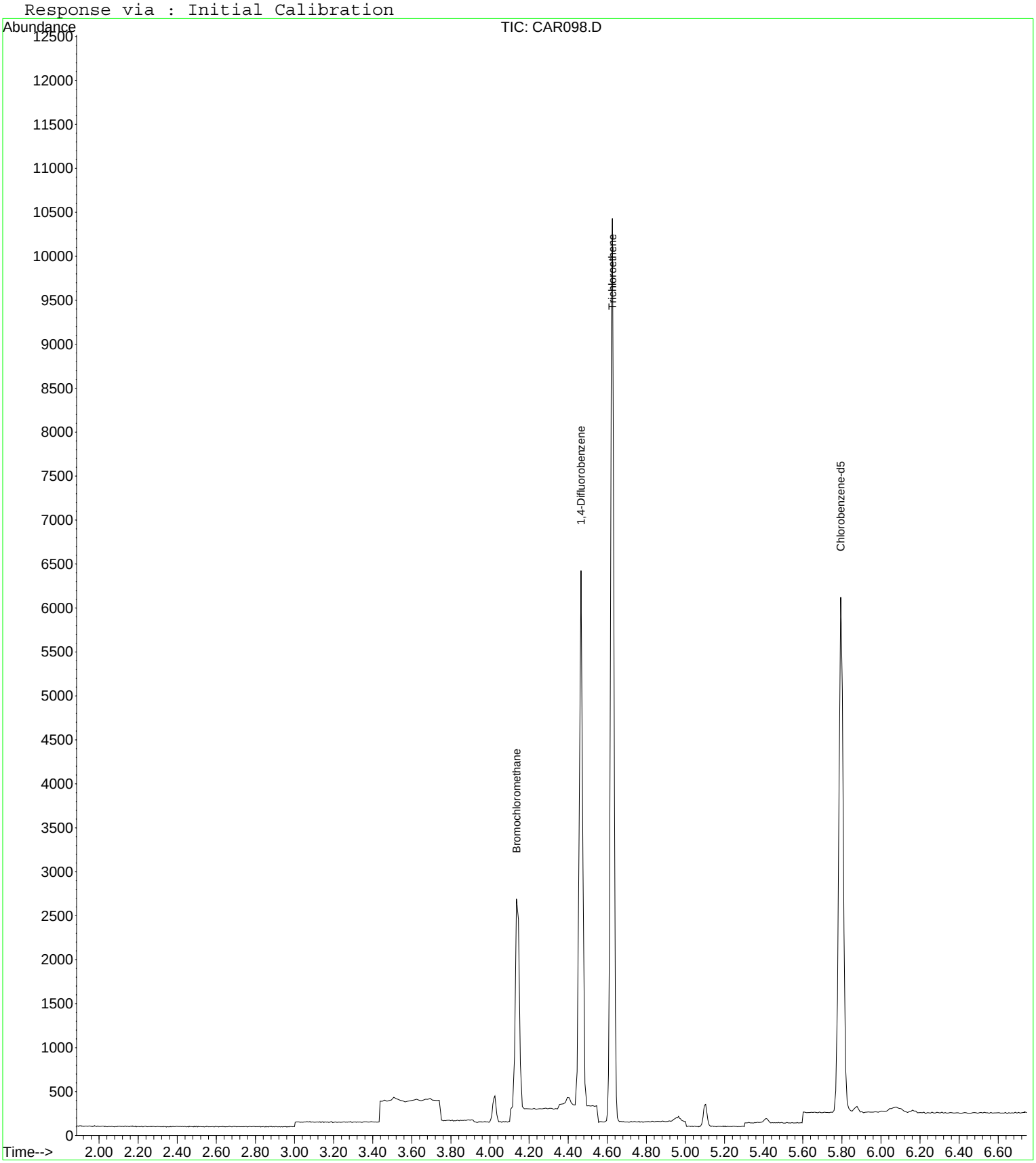
Target Compounds					Qvalue
7) cis-1,2-Dichloroethene	4.02	61	154	9.94 ppbv #	79
11) Trichloroethene	4.63	130	4407	227.57 ppbv	93
13) Toluene	5.10	91	214	5.41 ppbv	98

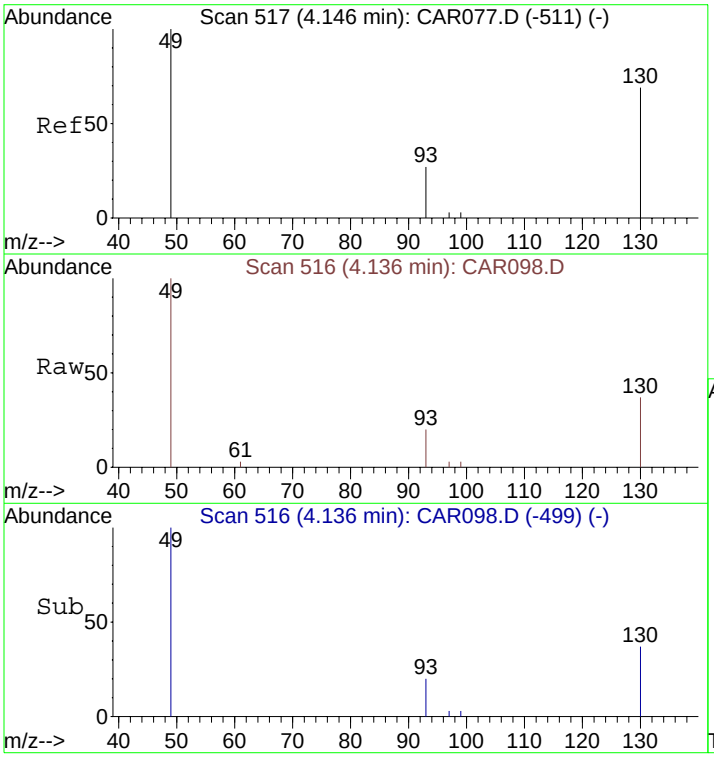
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR098.D Vial: 1
Acq On : 17 Sep 2008 14:46 Operator: dlm
Sample : 51426\E5-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 14:55 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

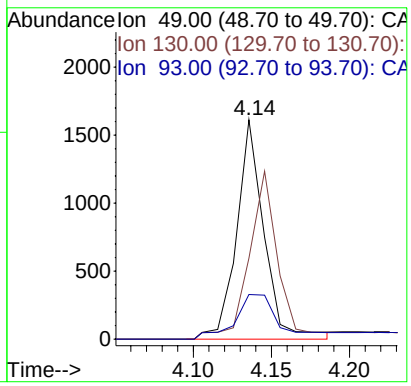


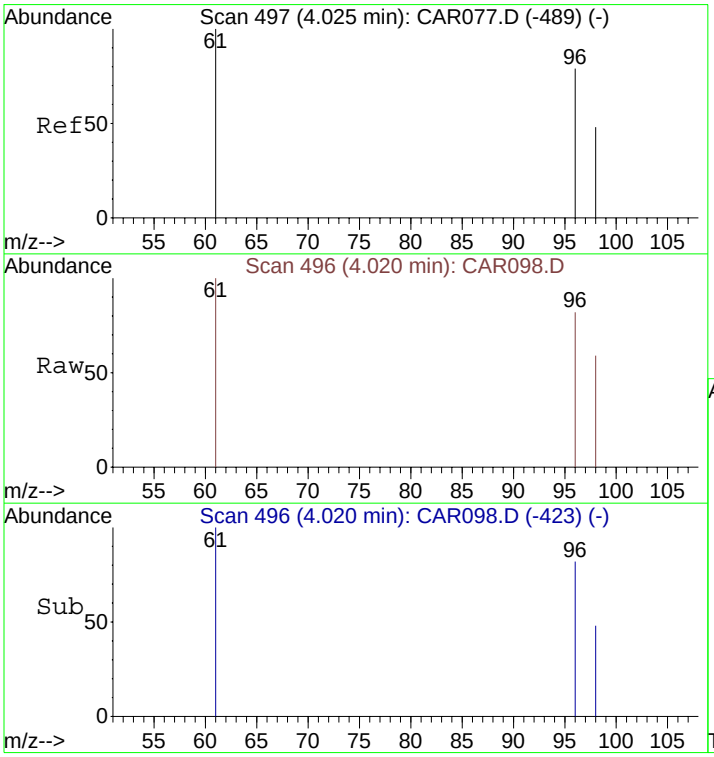


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR098.D
Acq: 17 Sep 2008 14:46

Tgt Ion: 49 Resp: 1789

Ion	Ratio	Lower	Upper
49	100		
130	82.7	65.1	97.7
93	32.8	33.8	50.6#

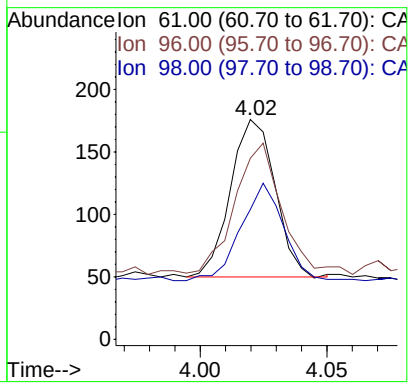


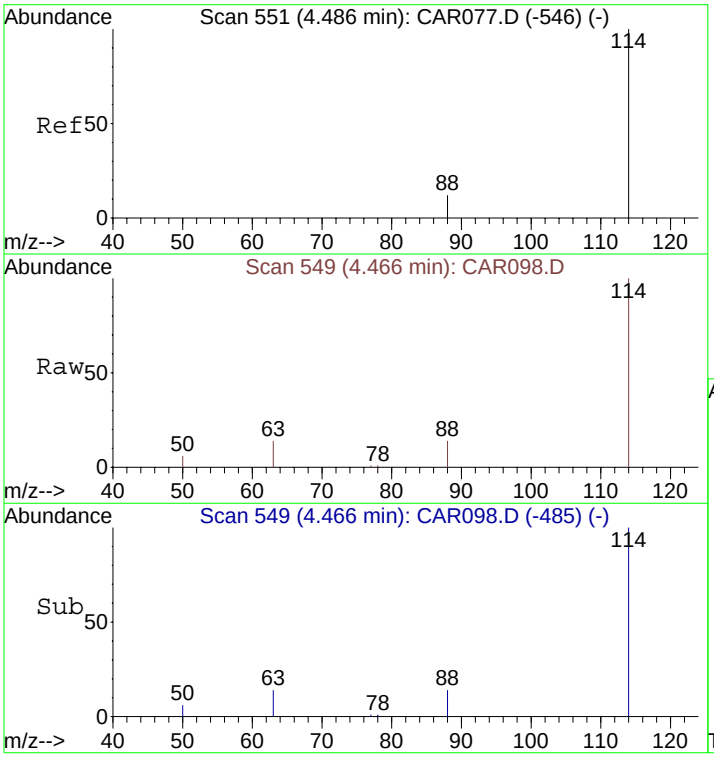


#7
cis-1,2-Dichloroethene
Concen: 9.94 ppbv
RT: 4.02 min Scan# 496
Delta R.T. 0.00 min
Lab File: CAR098.D
Acq: 17 Sep 2008 14:46

Tgt Ion: 61 Resp: 154

Ion	Ratio	Lower	Upper
61	100		
96	88.3	56.0	84.0#
98	57.8	36.2	54.4#

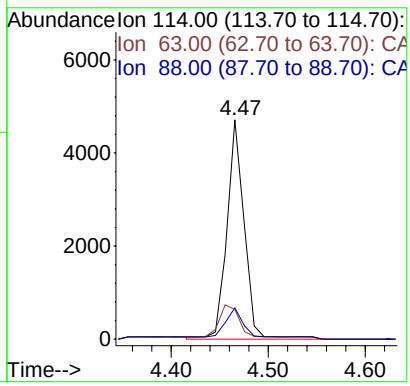


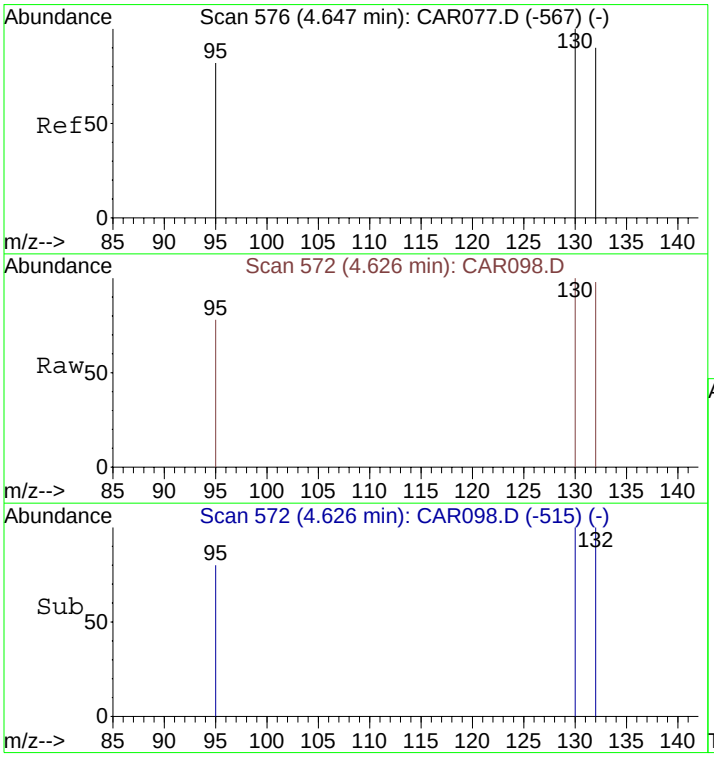


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. 0.00 min
Lab File: CAR098.D
Acq: 17 Sep 2008 14:46

Tgt Ion:114 Resp: 5678

Ion	Ratio	Lower	Upper
114	100		
63	22.6	15.8	23.8
88	14.0	12.2	18.2

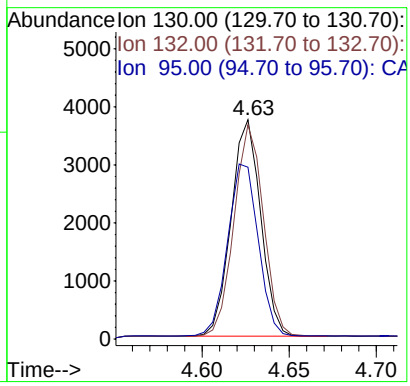


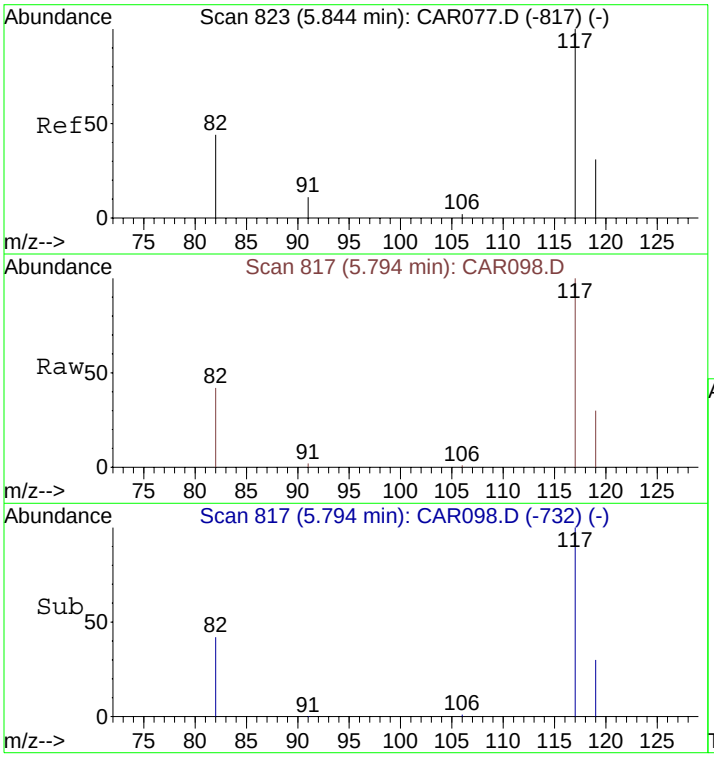


#11
Trichloroethene
Concen: 227.57 ppbv
RT: 4.63 min Scan# 572
Delta R.T. 0.00 min
Lab File: CAR098.D
Acq: 17 Sep 2008 14:46

Tgt Ion:130 Resp: 4407

Ion	Ratio	Lower	Upper
130	100		
132	99.3	73.8	110.6
95	83.9	72.5	108.7

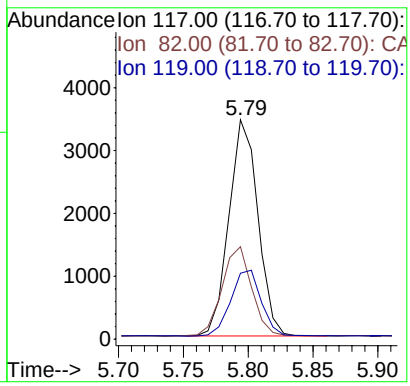


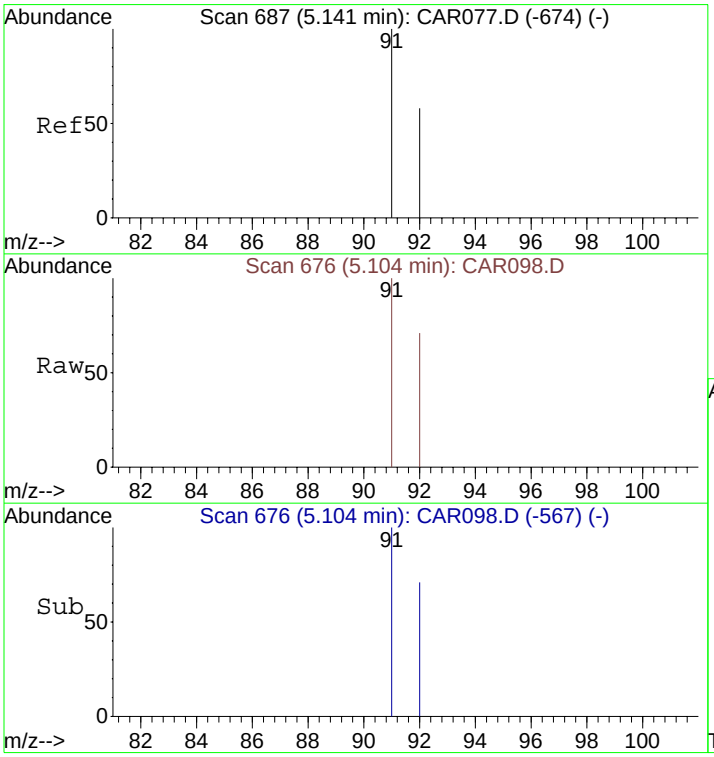


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.79 min Scan# 817
Delta R.T. 0.00 min
Lab File: CAR098.D
Acq: 17 Sep 2008 14:46

Tgt Ion:117 Resp: 5372

Ion	Ratio	Lower	Upper
117	100		
82	42.2	38.3	57.5
119	32.3	26.0	39.0

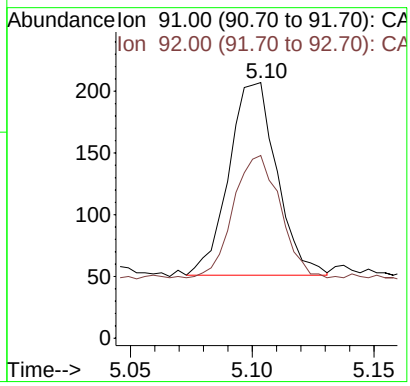




#13
Toluene
Concen: 5.41 ppbv
RT: 5.10 min Scan# 676
Delta R.T. 0.00 min
Lab File: CAR098.D
Acq: 17 Sep 2008 14:46

Tgt Ion: 91 Resp: 214

Ion	Ratio	Lower	Upper
91	100		
92	61.7	48.2	72.2



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR099.D Vial: 1
Acq On : 17 Sep 2008 14:58 Operator: dlm
Sample : 51427\E9-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 15:06:02 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1847	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	5643	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.81	117	5525	10.00 ppbv	0.02

Target Compounds					Qvalue
5) trans-1,2-Dichloroethene	3.62	61	466	28.57 ppbv	97
6) 1,1-Dichloroethane	3.79	63	362m	17.66 ppbv	
7) cis-1,2-Dichloroethene	4.02	61	17198	1075.66 ppbv	91
8) 1,1,1-Trichloroethane	4.26	97	929m	37.52 ppbv	
10) Benzene	4.41	78	299m	9.14 ppbv	
11) Trichloroethene	4.63	130	3394032	176349.71 ppbv *	92
13) Toluene	5.11	91	464	11.41 ppbv	100
14) Tetrachloroethene	5.43	166	32162	1378.05 ppbv	98
15) Ethylbenzene	5.84	91	1057	21.98 ppbv #	86
16) m&p-Xylenes	5.89	91	2257	65.46 ppbv	100
17) o-Xylene	6.18	91	715	18.76 ppbv	96

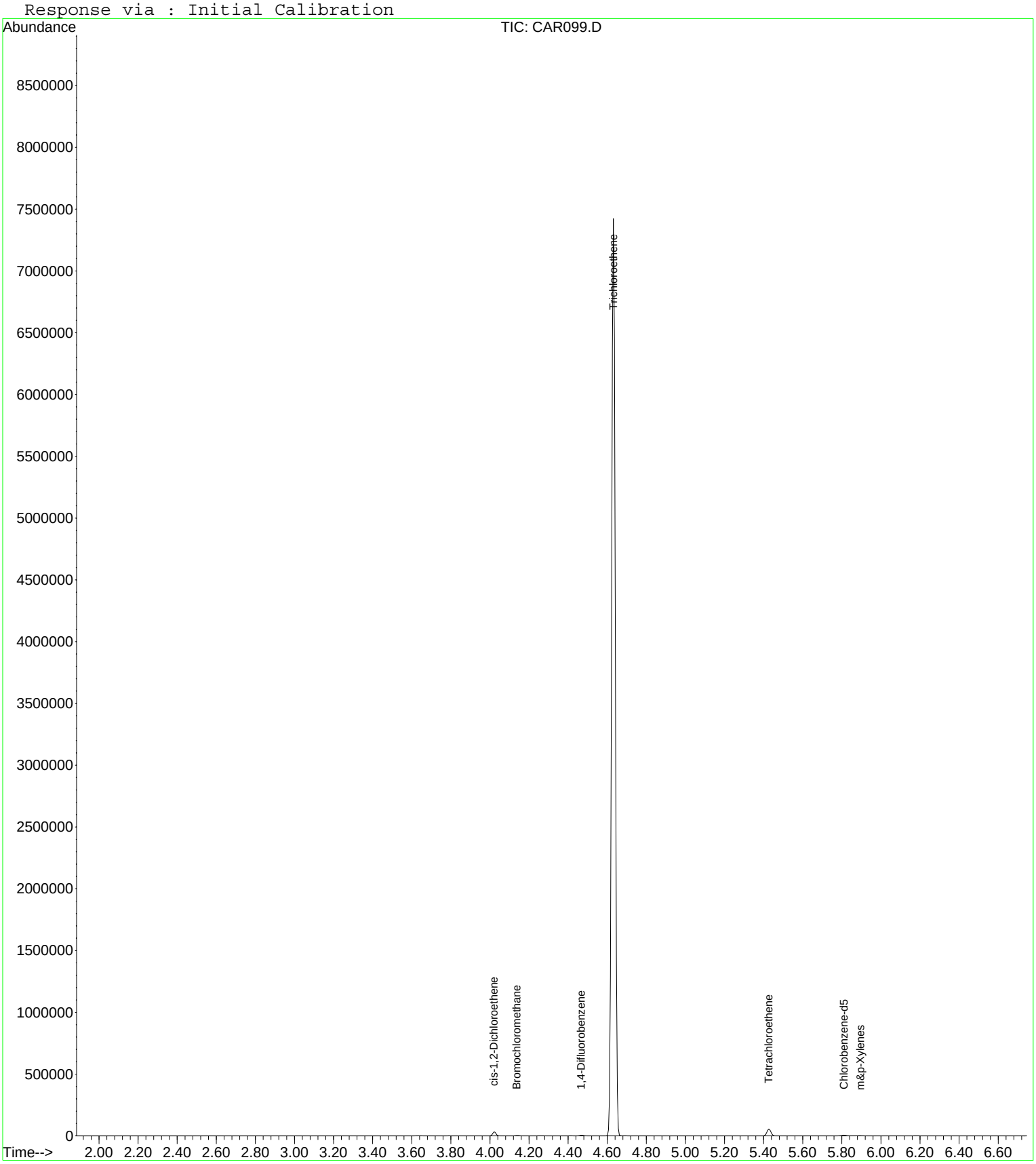
* Value from file CAR114 reported

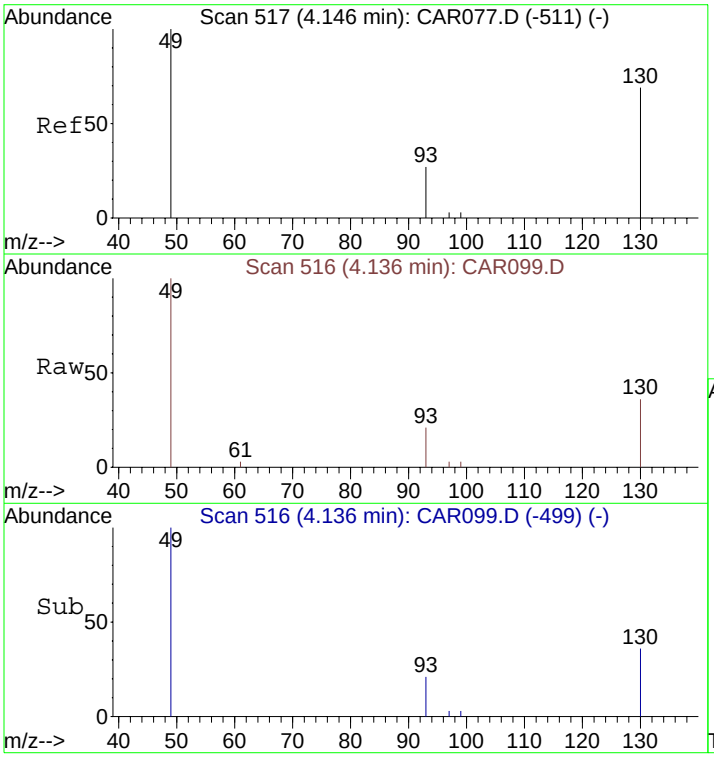
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR099.D Vial: 1
Acq On : 17 Sep 2008 14:58 Operator: dlm
Sample : 51427\E9-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 30 9:06 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

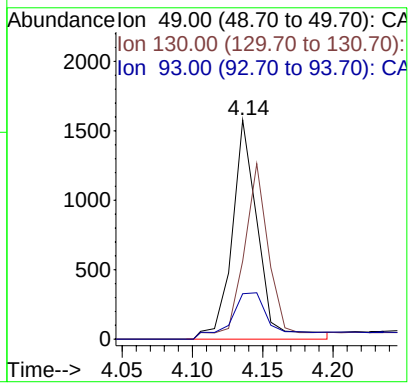


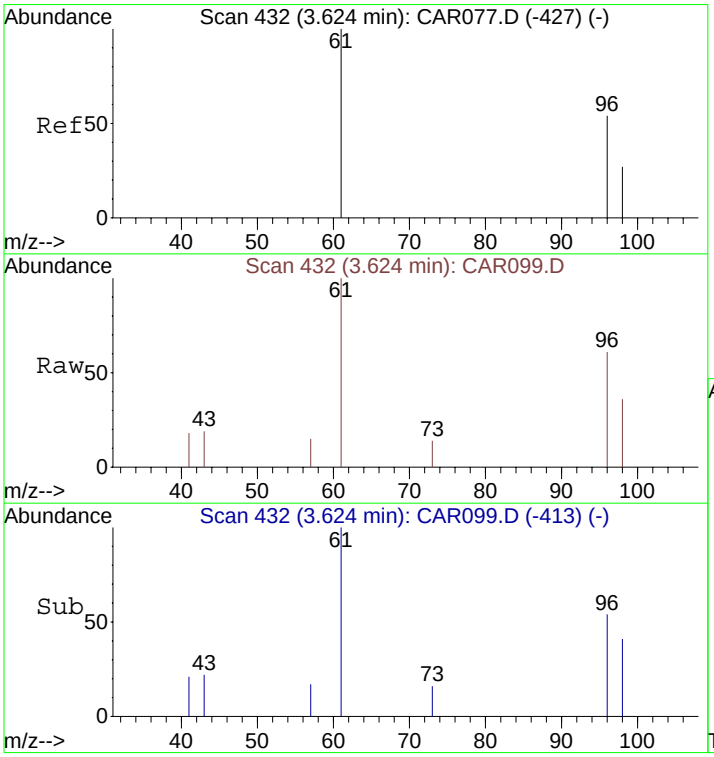


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR099.D
Acq: 17 Sep 2008 14:58

Tgt Ion: 49 Resp: 1847

Ion	Ratio	Lower	Upper
49	100		
130	78.6	65.1	97.7
93	32.6	33.8	50.6#

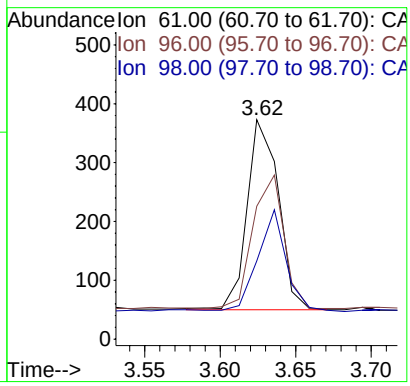


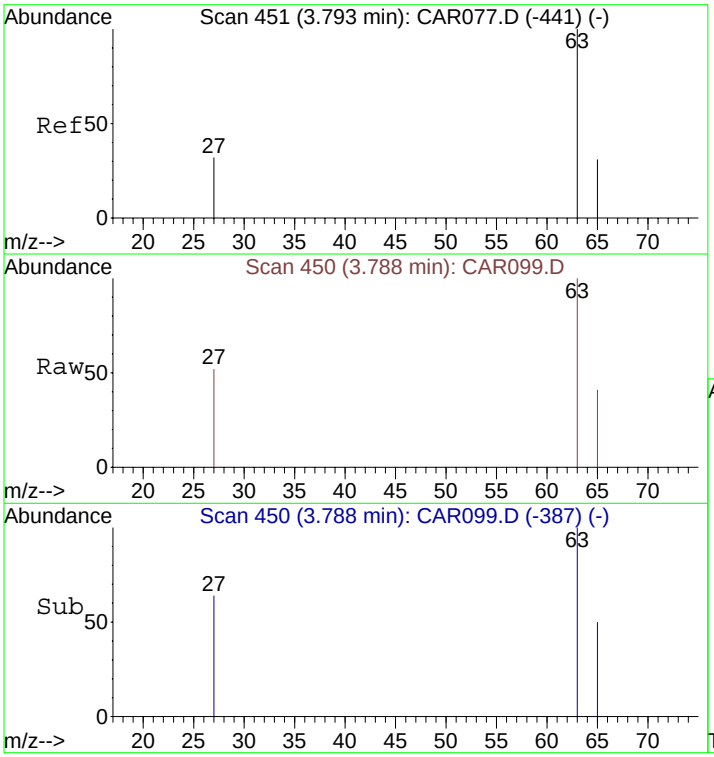


#5
trans-1,2-Dichloroethene
Concen: 28.57 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR099.D
Acq: 17 Sep 2008 14:58

Tgt Ion: 61 Resp: 466

Ion	Ratio	Lower	Upper
61	100		
96	69.5	55.0	82.4
98	48.5	35.6	53.4

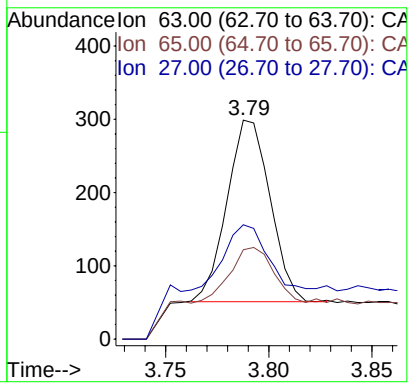


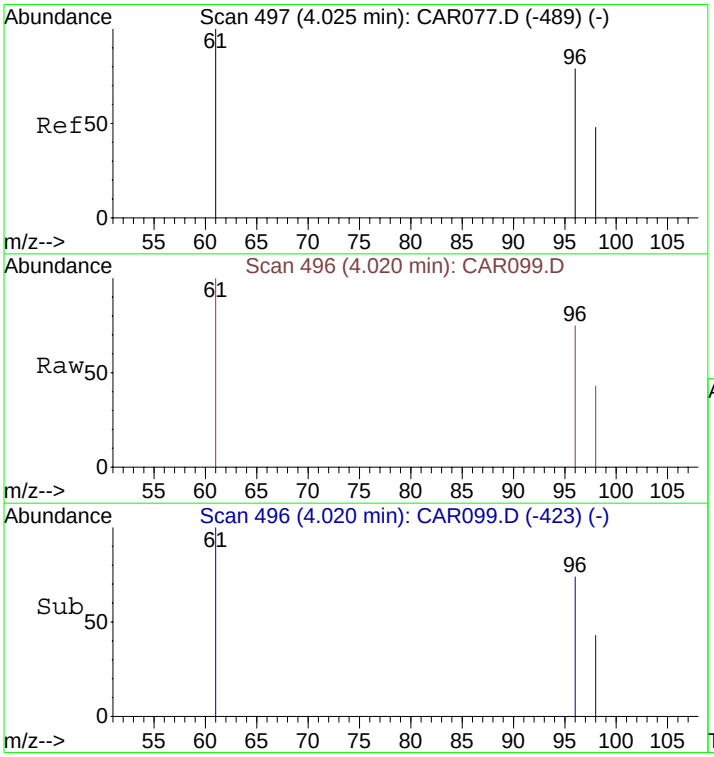


#6
1,1-Dichloroethane
Concen: 17.66 ppbv m
RT: 3.79 min Scan# 450
Delta R.T. -0.00 min
Lab File: CAR099.D
Acq: 17 Sep 2008 14:58

Tgt Ion: 63 Resp: 362

Ion	Ratio	Lower	Upper
63	100		
65	29.6	23.5	35.3
27	34.8	26.7	40.1

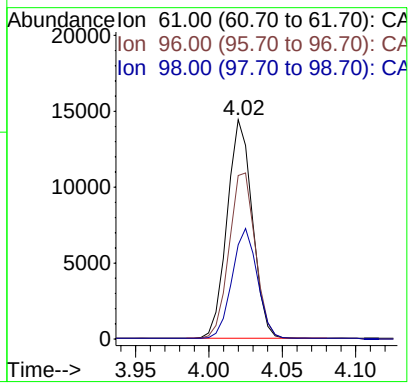


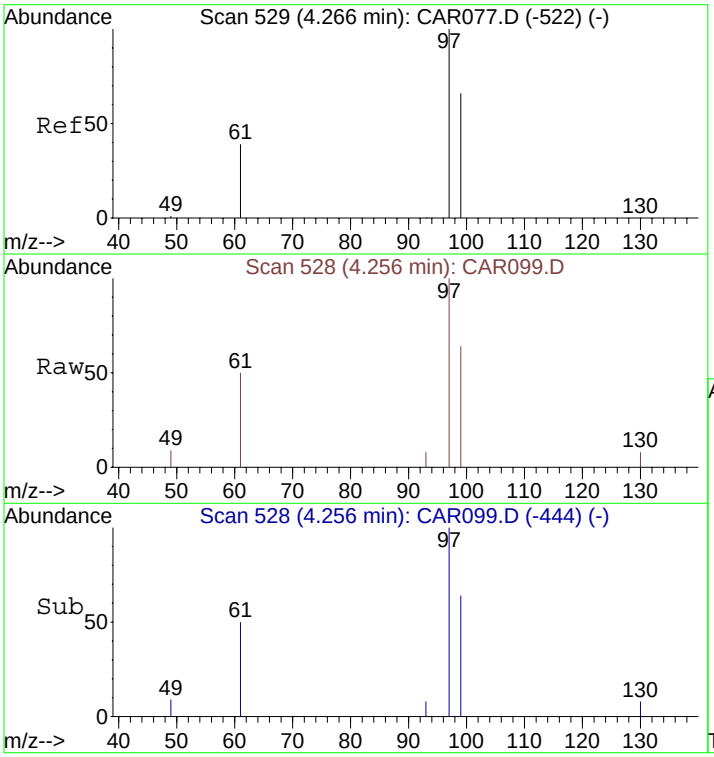


#7
cis-1,2-Dichloroethene
Concen: 1075.66 ppbv
RT: 4.02 min Scan# 496
Delta R.T. 0.00 min
Lab File: CAR099.D
Acq: 17 Sep 2008 14:58

Tgt Ion: 61 Resp: 17198

Ion	Ratio	Lower	Upper
61	100		
96	78.1	56.0	84.0
98	50.3	36.2	54.4

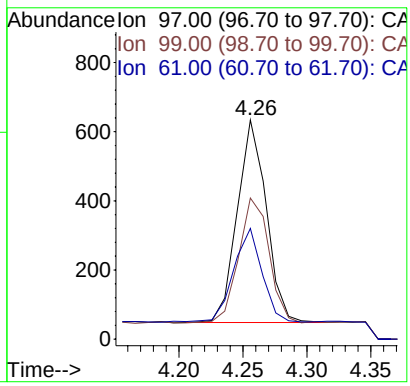


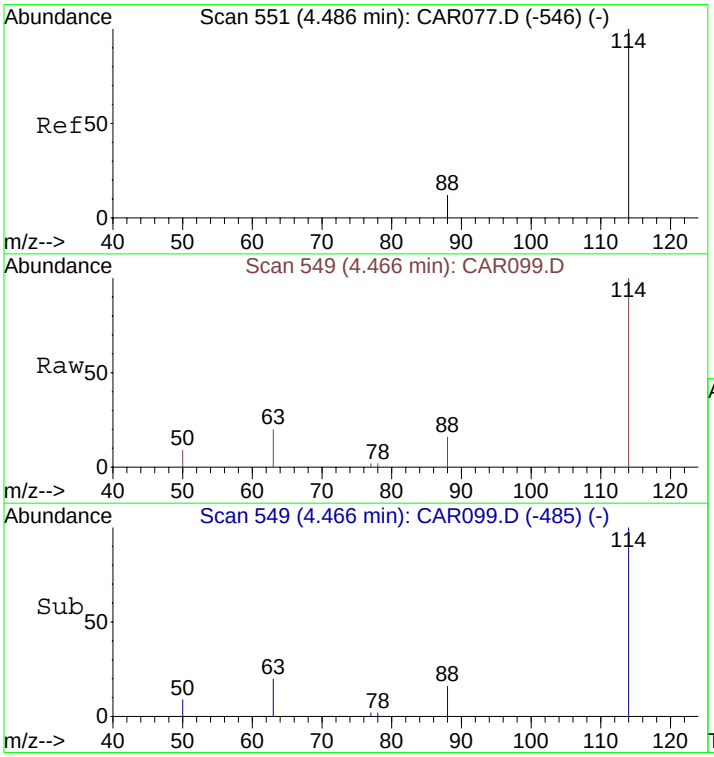


#8
1,1,1-Trichloroethane
Concen: 37.52 ppbv m
RT: 4.26 min Scan# 528
Delta R.T. 0.00 min
Lab File: CAR099.D
Acq: 17 Sep 2008 14:58

Tgt Ion: 97 Resp: 929

Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.8	77.8
61	44.5	32.1	48.1

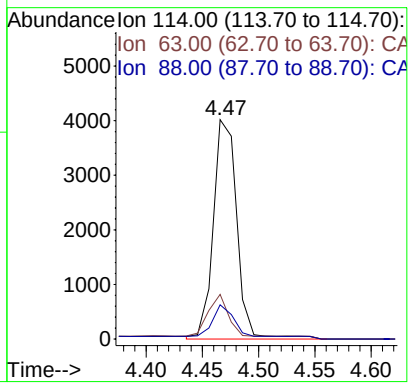


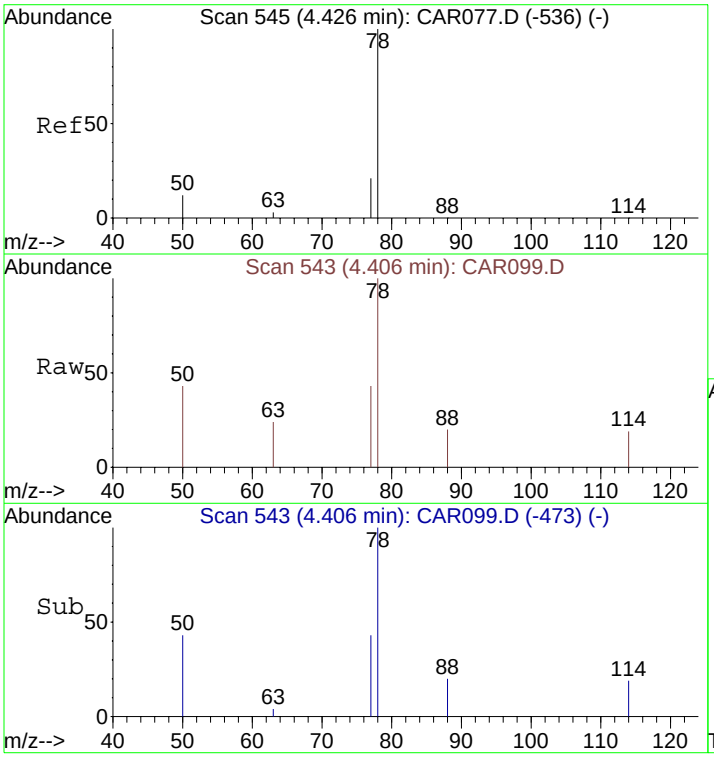


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. 0.00 min
Lab File: CAR099.D
Acq: 17 Sep 2008 14:58

Tgt Ion:114 Resp: 5643

Ion	Ratio	Lower	Upper
114	100		
63	18.2	15.8	23.8
88	18.4	12.2	18.2#

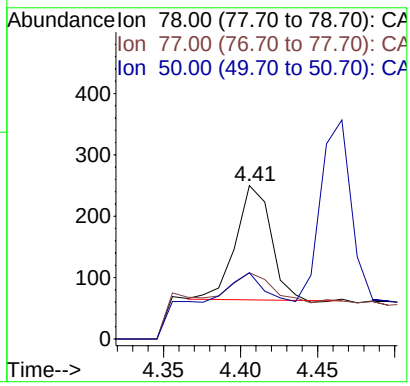


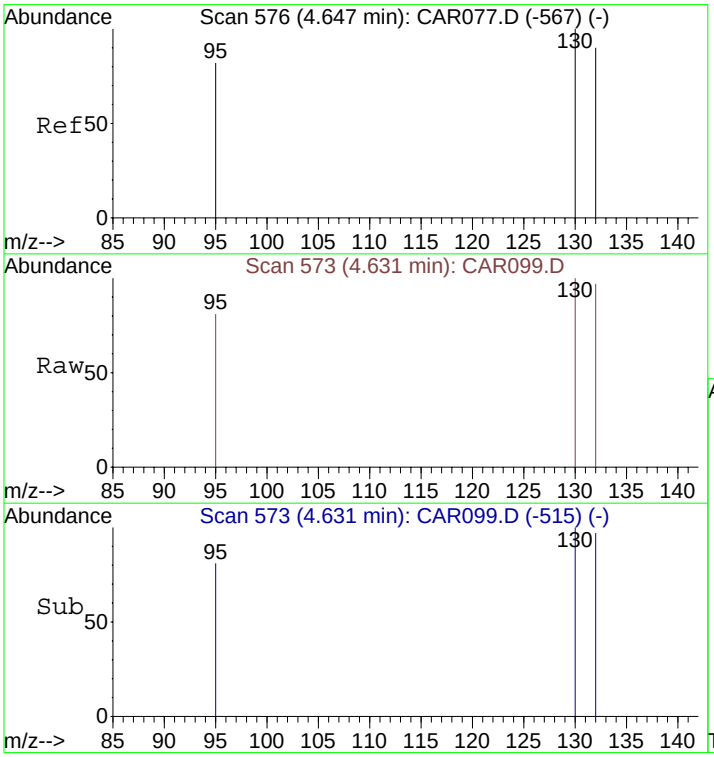


#10
Benzene
Concen: 9.14 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR099.D
Acq: 17 Sep 2008 14:58

Tgt Ion: 78 Resp: 299

Ion	Ratio	Lower	Upper
78	100		
77	29.4	18.6	28.0#
50	29.4	16.2	24.4#

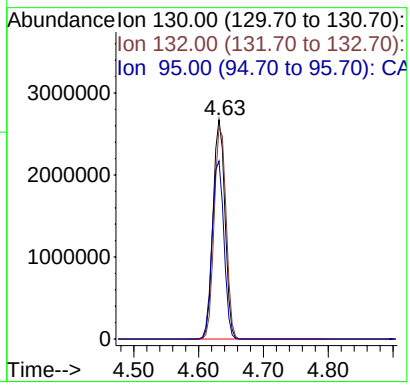


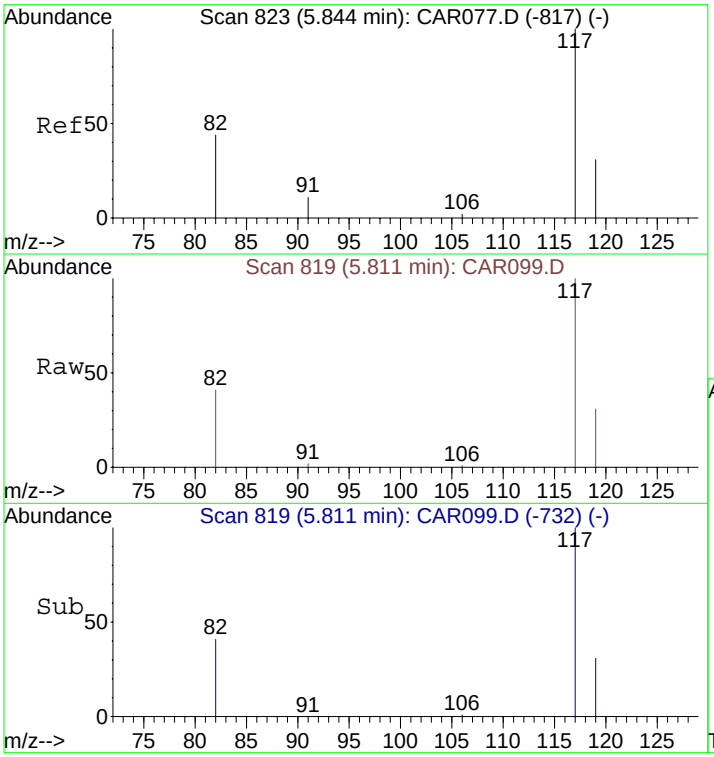


#11
Trichloroethene
Concen: 176349.71 ppbv
RT: 4.63 min Scan# 573
Delta R.T. 0.01 min
Lab File: CAR099.D
Acq: 17 Sep 2008 14:58

Tgt Ion:130 Resp: 3394032

Ion	Ratio	Lower	Upper
130	100		
132	97.6	73.8	110.6
95	81.3	72.5	108.7

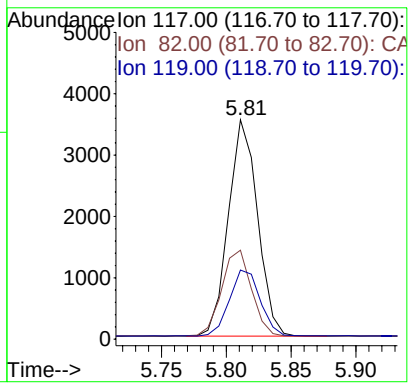


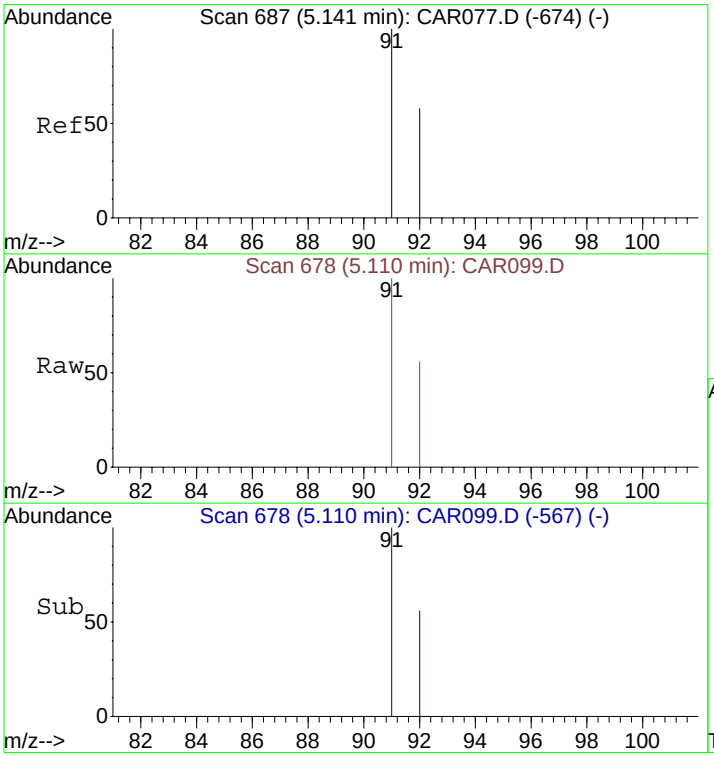


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.81 min Scan# 819
Delta R.T. 0.02 min
Lab File: CAR099.D
Acq: 17 Sep 2008 14:58

Tgt Ion:117 Resp: 5525

Ion	Ratio	Lower	Upper
117	100		
82	40.5	38.3	57.5
119	32.3	26.0	39.0

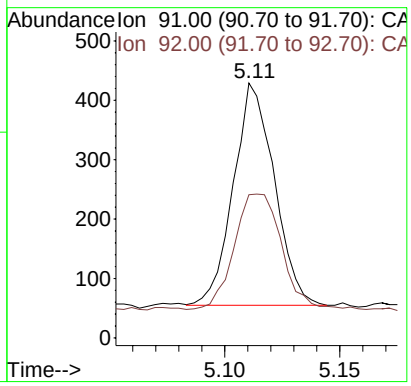


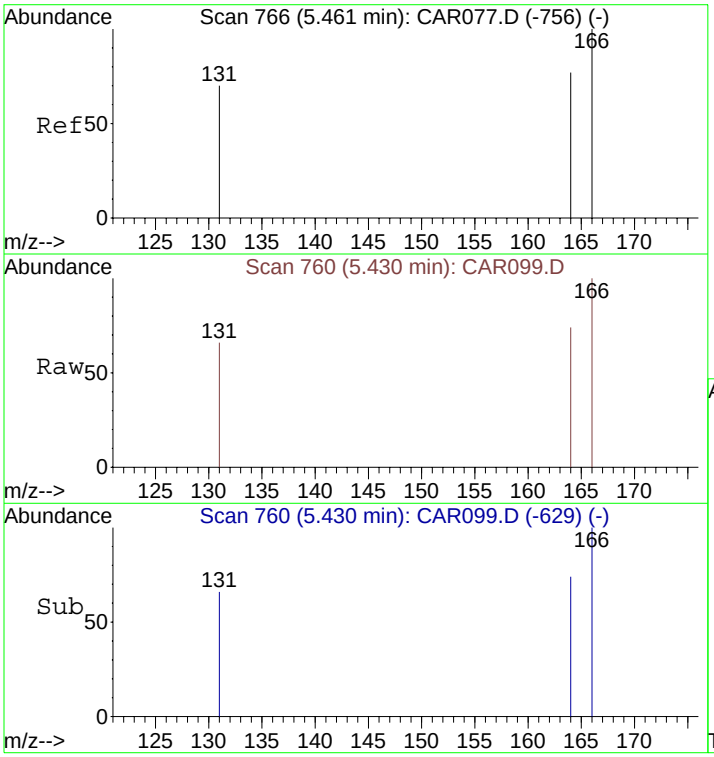


#13
Toluene
Concen: 11.41 ppbv
RT: 5.11 min Scan# 678
Delta R.T. 0.01 min
Lab File: CAR099.D
Acq: 17 Sep 2008 14:58

Tgt Ion: 91 Resp: 464

Ion	Ratio	Lower	Upper
91	100		
92	59.9	48.2	72.2

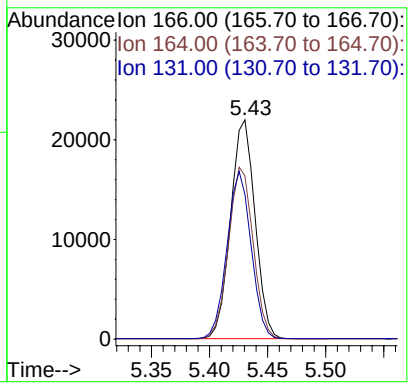


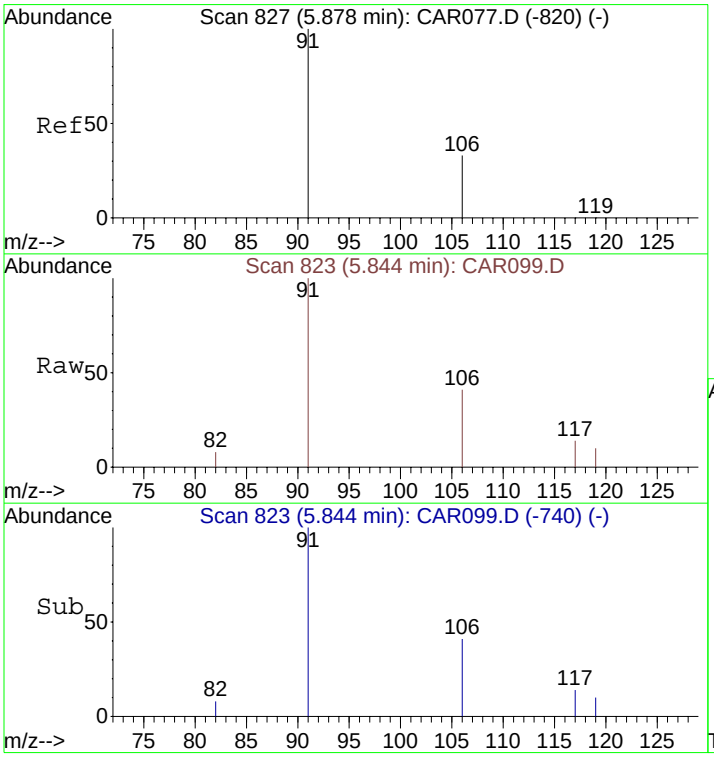


#14
Tetrachloroethene
Concen: 1378.05 ppbv
RT: 5.43 min Scan# 760
Delta R.T. 0.02 min
Lab File: CAR099.D
Acq: 17 Sep 2008 14:58

Tgt Ion:166 Resp: 32162

Ion	Ratio	Lower	Upper
166	100		
164	78.6	63.1	94.7
131	74.9	62.9	94.3

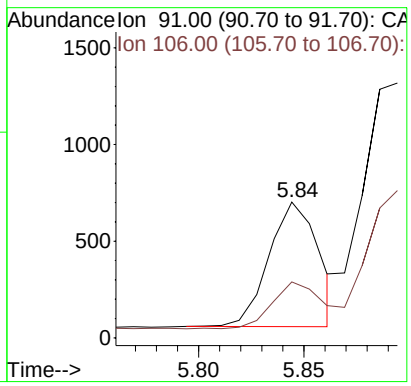


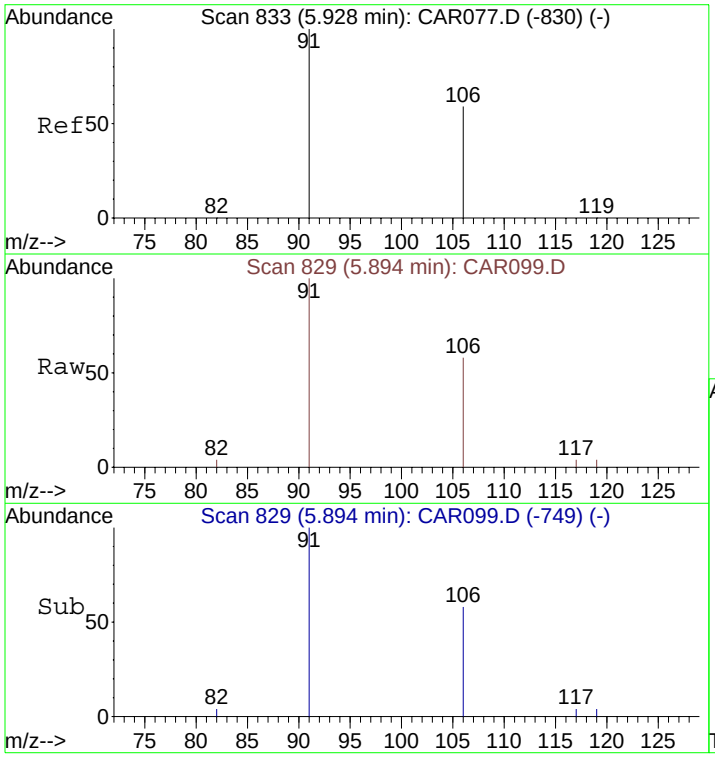


#15
Ethylbenzene
Concen: 21.98 ppbv
RT: 5.84 min Scan# 823
Delta R.T. 0.02 min
Lab File: CAR099.D
Acq: 17 Sep 2008 14:58

Tgt Ion: 91 Resp: 1057

Ion	Ratio	Lower	Upper
91	100		
106	41.1	26.3	39.5#

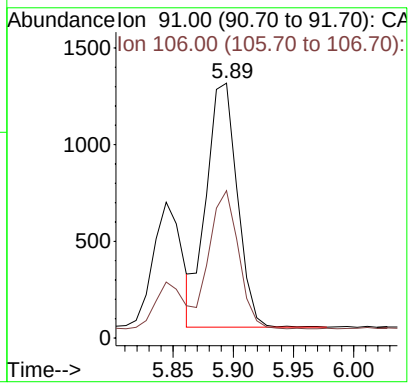


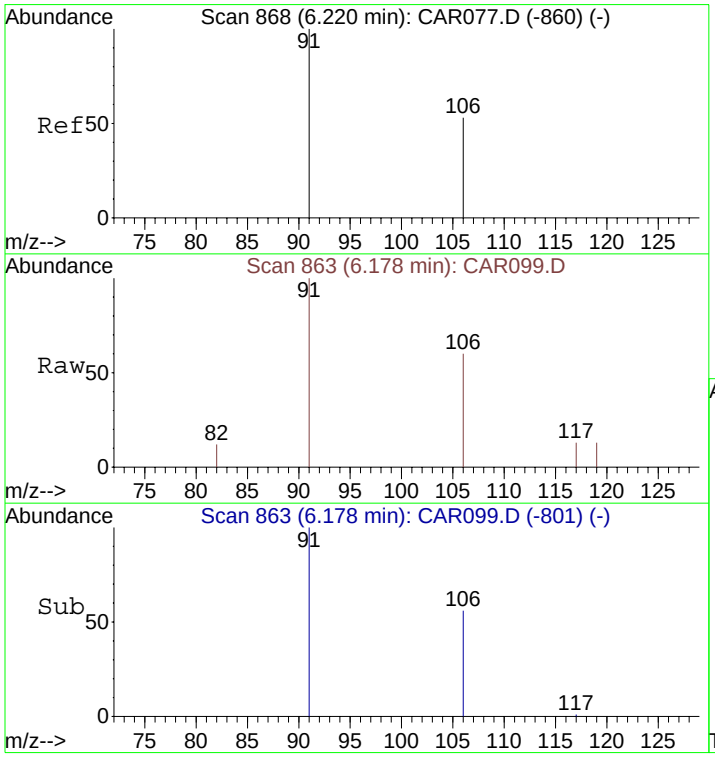


#16
m&p-Xylenes
Concen: 65.46 ppbv
RT: 5.89 min Scan# 829
Delta R.T. 0.02 min
Lab File: CAR099.D
Acq: 17 Sep 2008 14:58

Tgt Ion: 91 Resp: 2257

Ion	Ratio	Lower	Upper
91	100		
106	52.0	41.8	62.8

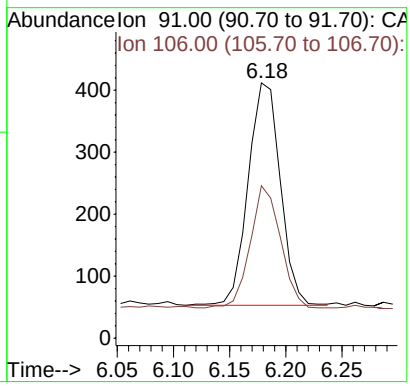




#17
o-Xylene
Concen: 18.76 ppbv
RT: 6.18 min Scan# 863
Delta R.T. 0.02 min
Lab File: CAR099.D
Acq: 17 Sep 2008 14:58

Tgt Ion: 91 Resp: 715

Ion	Ratio	Lower	Upper
91	100		
106	51.5	38.9	58.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR101.D Vial: 1
Acq On : 17 Sep 2008 15:23 Operator: dlm
Sample : 51430\LA1-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 15:30:52 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1748	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	5465	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.80	117	5510	10.00 ppbv	0.00

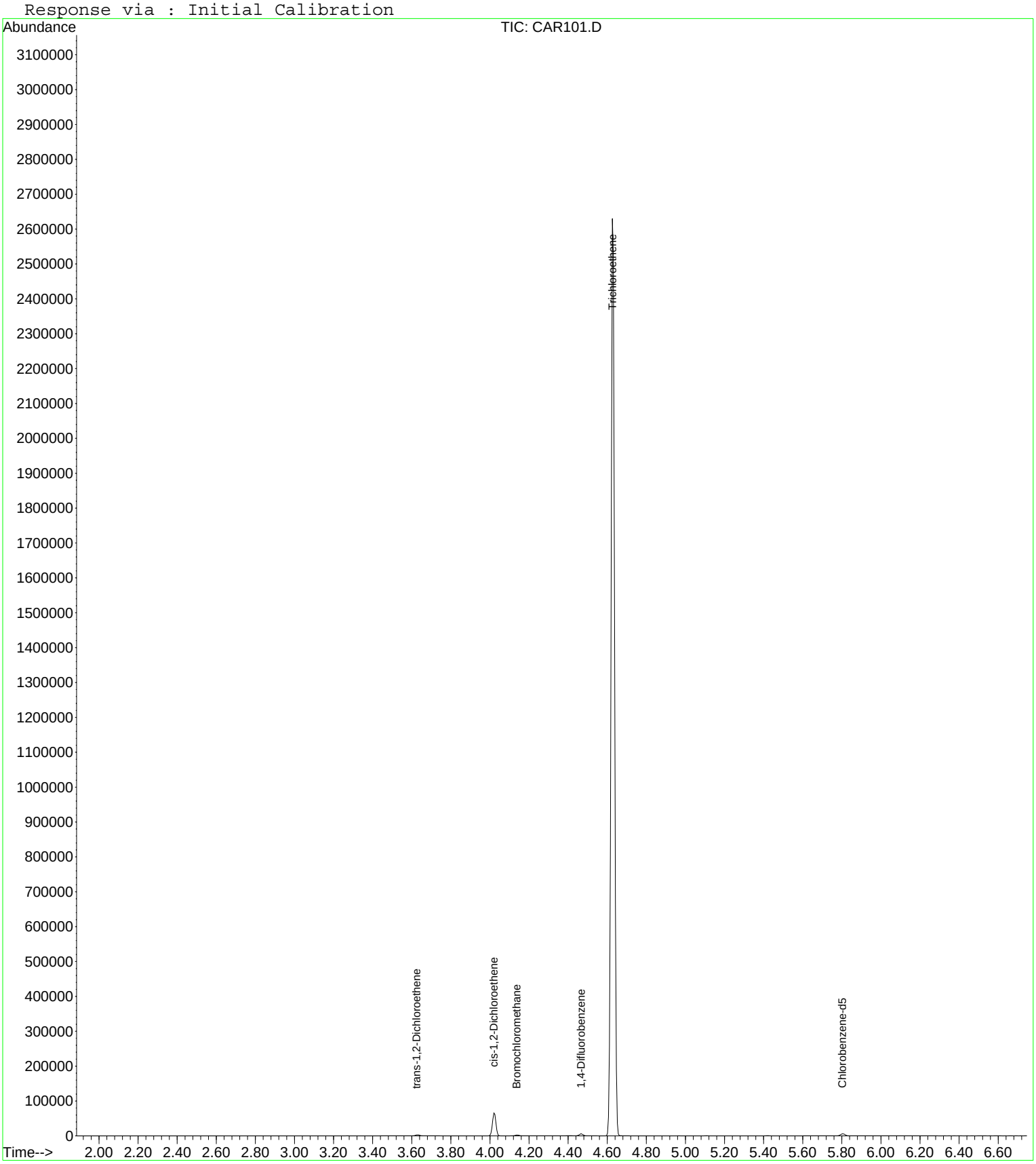
Target Compounds					Qvalue
3) 1,1-Dichloroethene	3.27	61	124	7.58 ppbv	94
5) trans-1,2-Dichloroethene	3.62	61	1813	117.45 ppbv #	77
7) cis-1,2-Dichloroethene	4.02	61	39020	2578.76 ppbv	97
10) Benzene	4.41	78	338m	10.67 ppbv	
11) Trichloroethene	4.63	130	1222307	65578.13 ppbv	93
13) Toluene	5.11	91	333	8.21 ppbv	95
14) Tetrachloroethene	5.42	166	340	14.61 ppbv	99

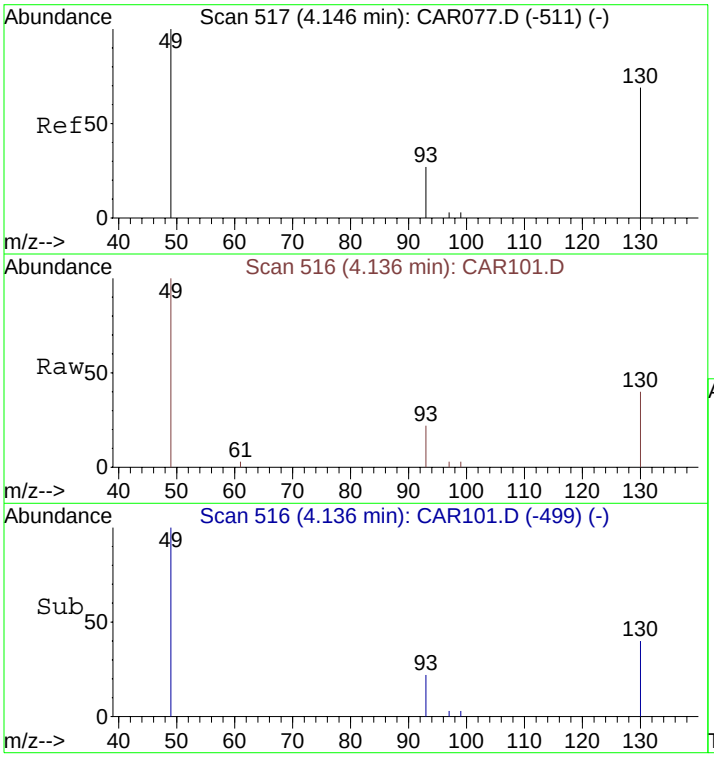
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR101.D Vial: 1
Acq On : 17 Sep 2008 15:23 Operator: dlm
Sample : 51430\LA1-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Oct 2 15:19 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Thu Oct 02 14:38:10 2008
Response via : Initial Calibration

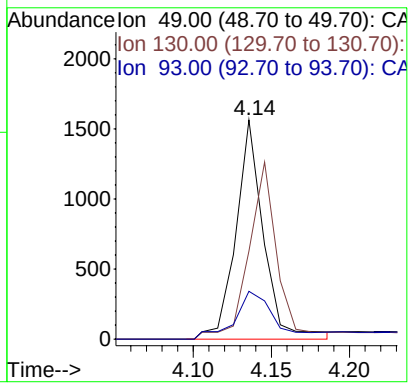


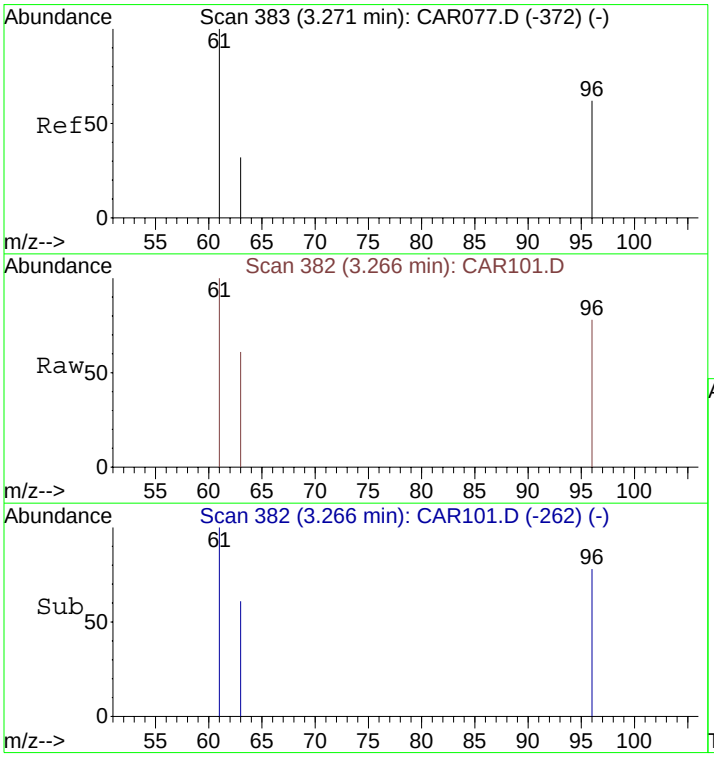


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR101.D
Acq: 17 Sep 2008 15:23

Tgt Ion: 49 Resp: 1748

Ion	Ratio	Lower	Upper
49	100		
130	82.5	65.1	97.7
93	30.5	33.8	50.6#

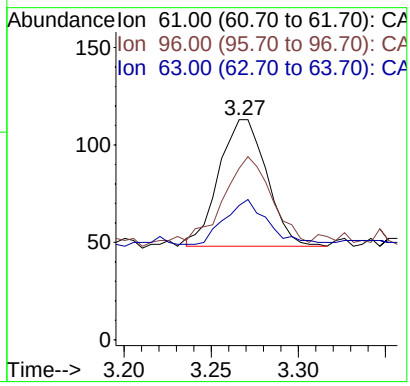


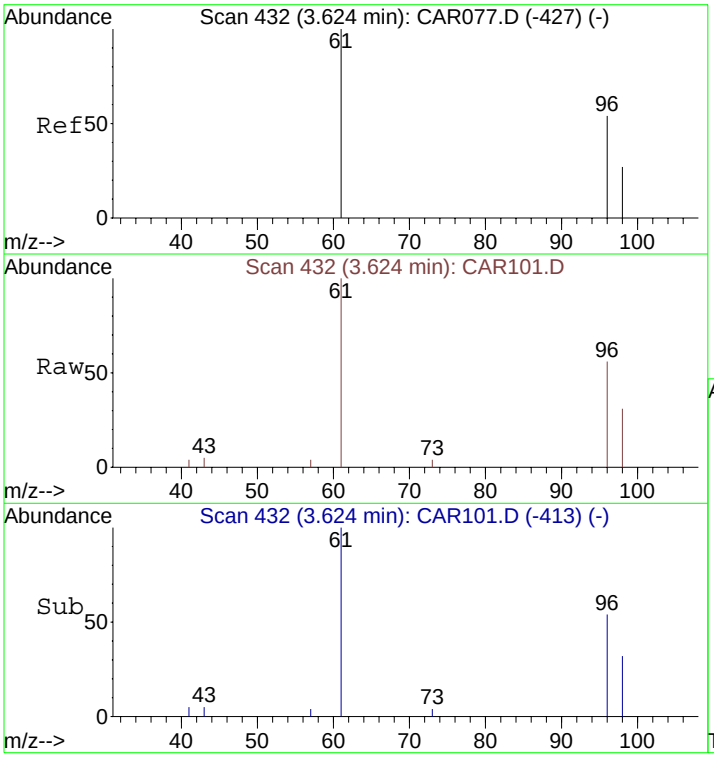


#3
1,1-Dichloroethene
Concen: 7.58 ppbv
RT: 3.27 min Scan# 382
Delta R.T. -0.00 min
Lab File: CAR101.D
Acq: 17 Sep 2008 15:23

Tgt Ion: 61 Resp: 124

Ion	Ratio	Lower	Upper
61	100		
96	62.1	45.7	68.5
63	28.2	25.0	37.4

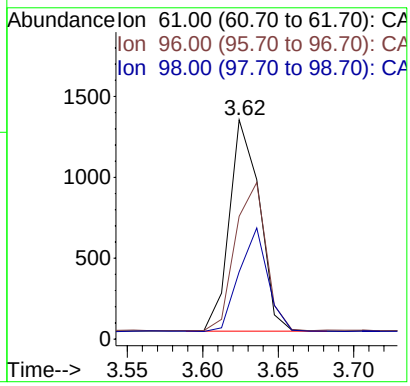


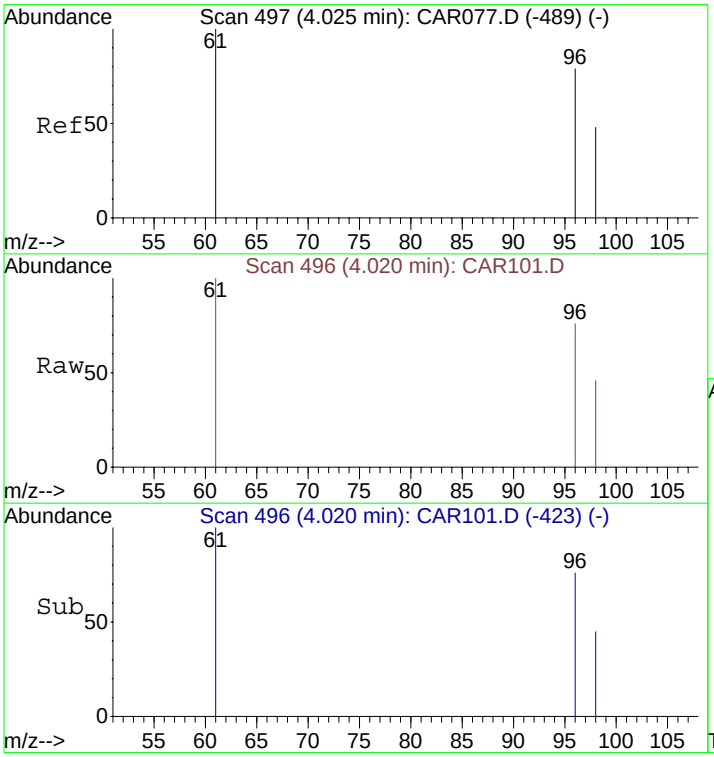


#5
trans-1,2-Dichloroethene
Concen: 117.45 ppbv
RT: 3.62 min Scan# 432
Delta R.T. 0.00 min
Lab File: CAR101.D
Acq: 17 Sep 2008 15:23

Tgt Ion: 61 Resp: 1813

Ion	Ratio	Lower	Upper
61	100		
96	96.5	55.0	82.4#
98	49.0	35.6	53.4

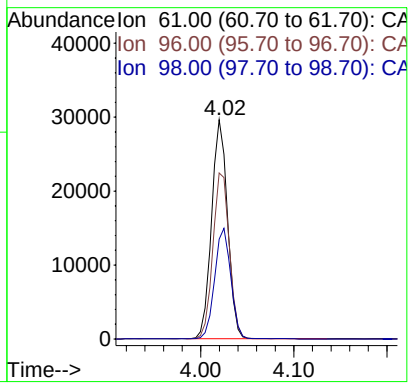


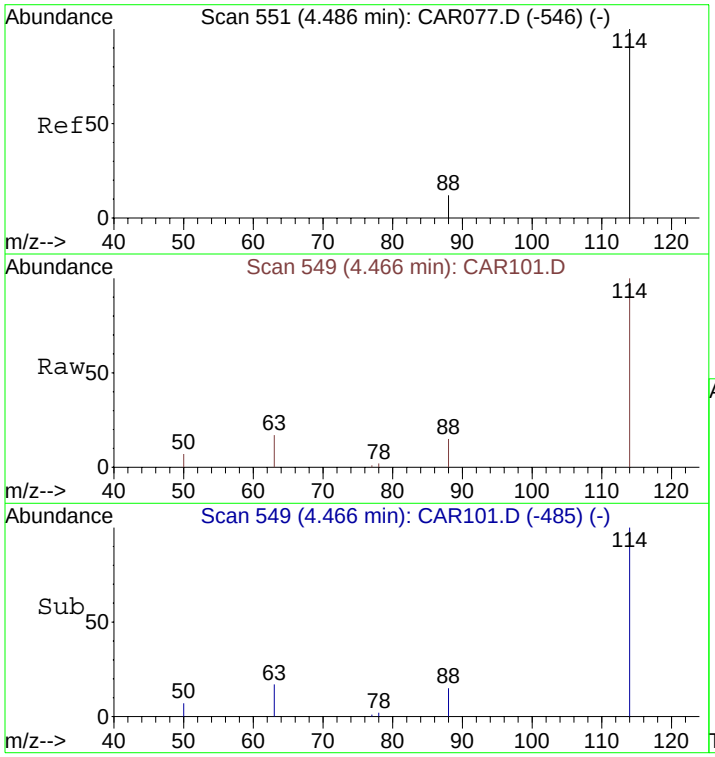


#7
cis-1,2-Dichloroethene
Concen: 2578.76 ppbv
RT: 4.02 min Scan# 496
Delta R.T. 0.00 min
Lab File: CAR101.D
Acq: 17 Sep 2008 15:23

Tgt Ion: 61 Resp: 39020

Ion	Ratio	Lower	Upper
61	100		
96	74.2	56.0	84.0
98	45.8	36.2	54.4

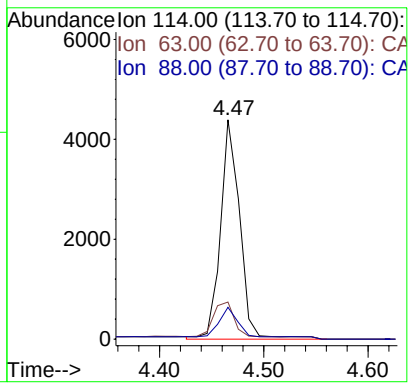


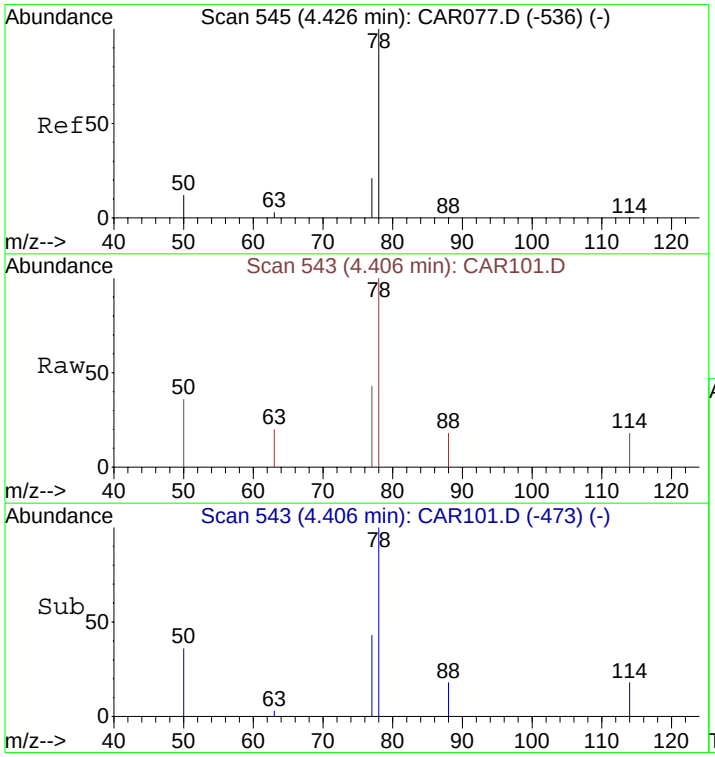


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. 0.00 min
Lab File: CAR101.D
Acq: 17 Sep 2008 15:23

Tgt Ion:114 Resp: 5465

Ion	Ratio	Lower	Upper
114	100		
63	18.7	15.8	23.8
88	13.7	12.2	18.2

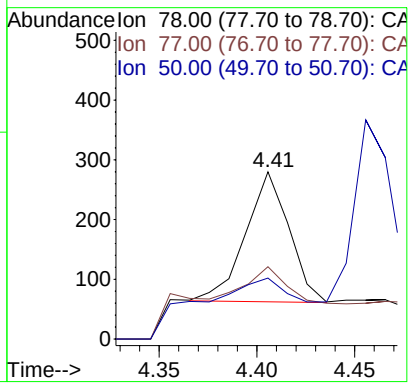


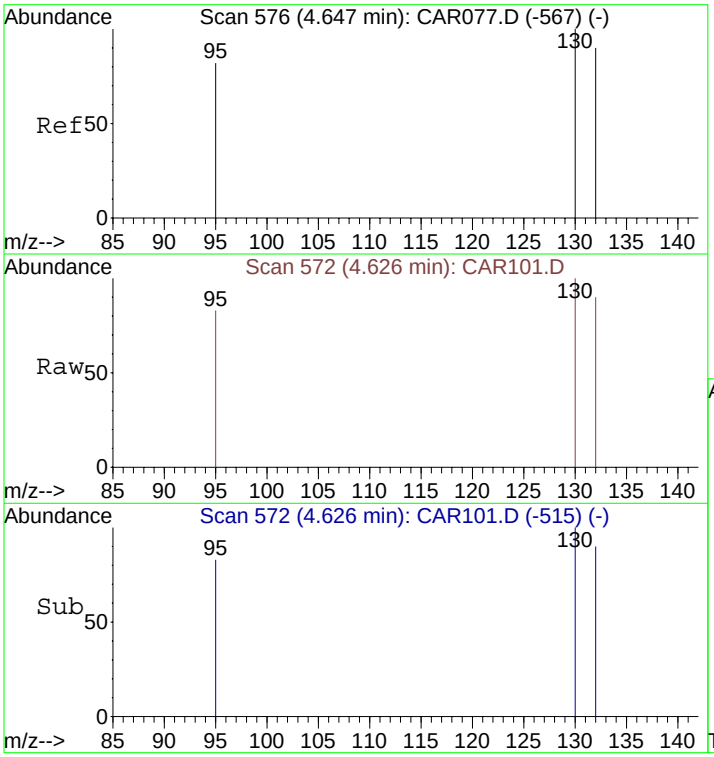


#10
Benzene
Concen: 10.67 ppbv m
RT: 4.41 min Scan# 543
Delta R.T. 0.00 min
Lab File: CAR101.D
Acq: 17 Sep 2008 15:23

Tgt Ion: 78 Resp: 338

Ion	Ratio	Lower	Upper
78	100		
77	137.3	18.6	28.0#
50	104.7	16.2	24.4#

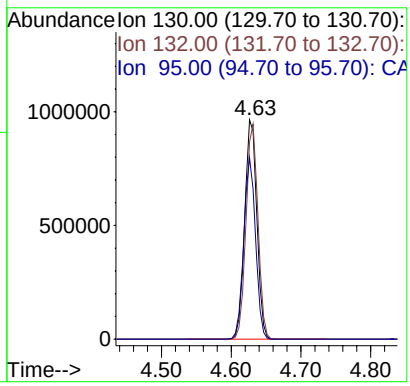


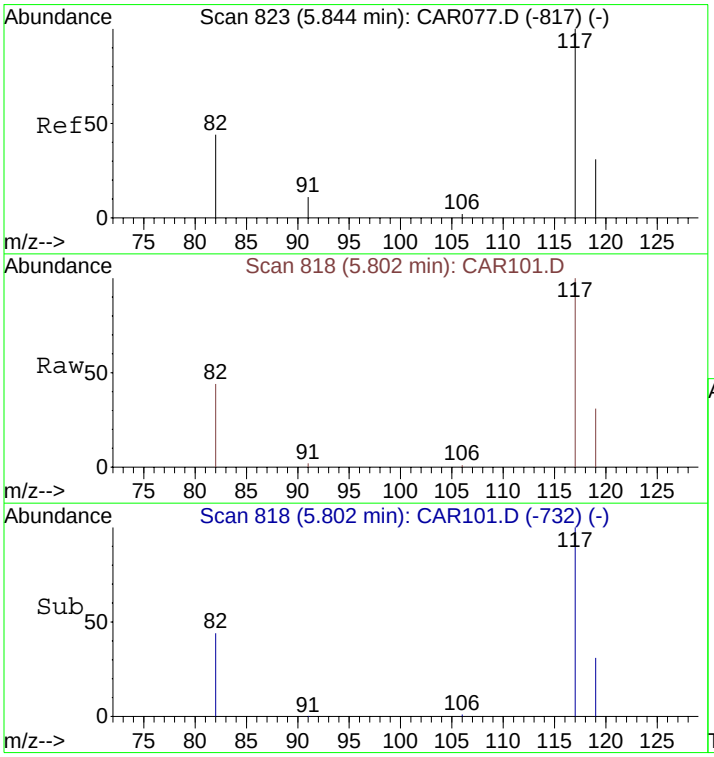


#11
Trichloroethene
Concen: 65578.13 ppbv
RT: 4.63 min Scan# 572
Delta R.T. 0.00 min
Lab File: CAR101.D
Acq: 17 Sep 2008 15:23

Tgt Ion:130 Resp: 1222307

Ion	Ratio	Lower	Upper
130	100		
132	92.0	73.8	110.6
95	76.8	72.5	108.7

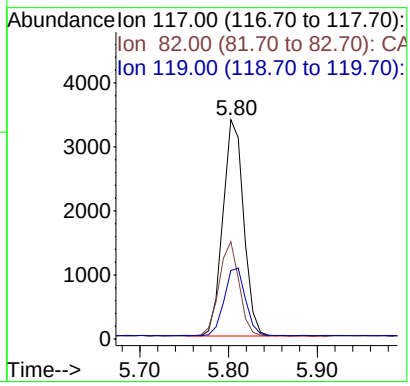


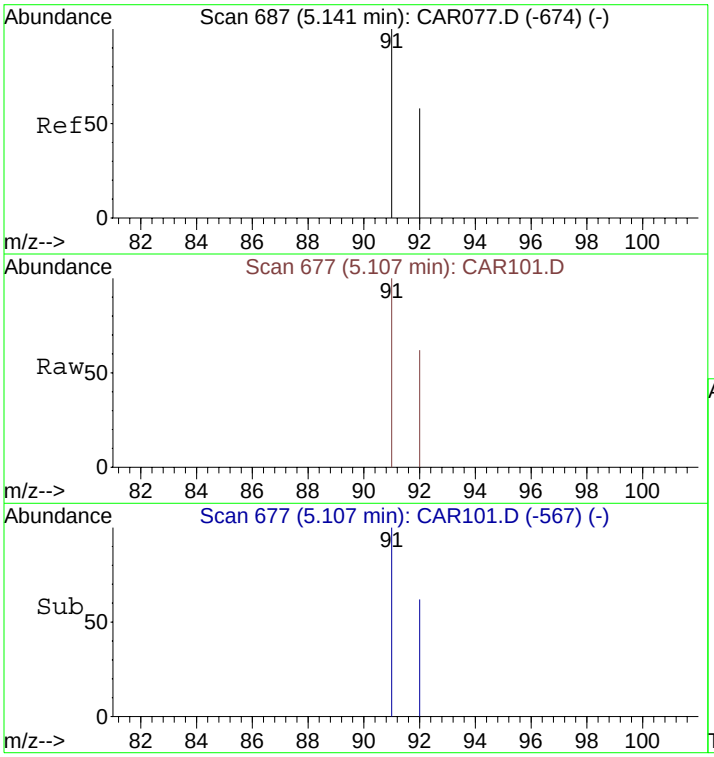


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.80 min Scan# 818
Delta R.T. 0.01 min
Lab File: CAR101.D
Acq: 17 Sep 2008 15:23

Tgt Ion:117 Resp: 5510

Ion	Ratio	Lower	Upper
117	100		
82	42.0	38.3	57.5
119	31.7	26.0	39.0

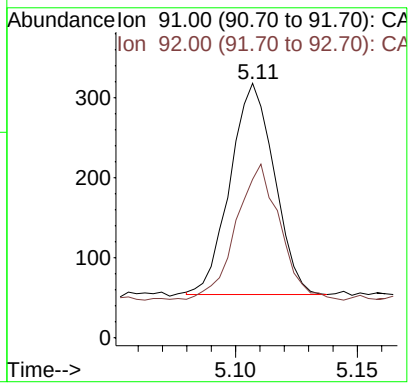


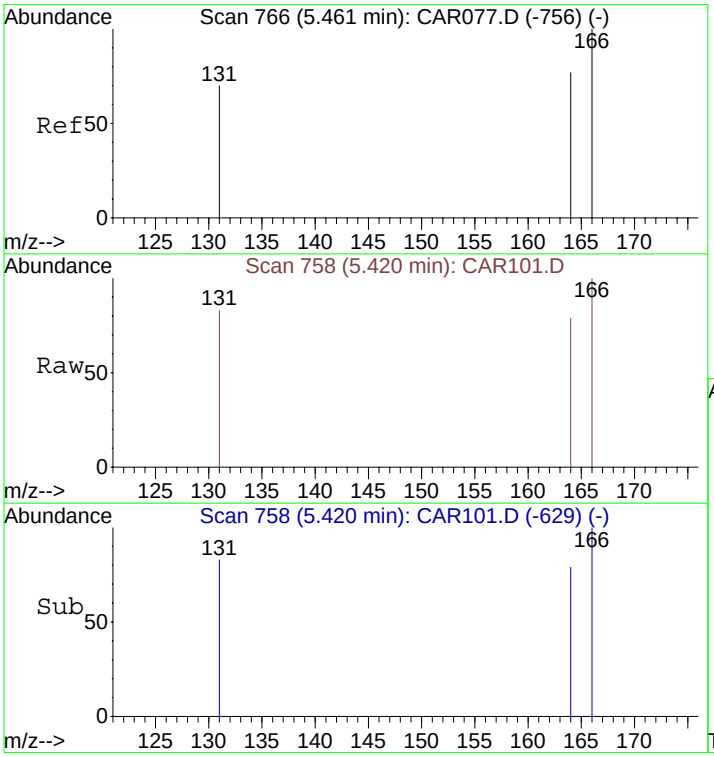


#13
Toluene
Concen: 8.21 ppbv
RT: 5.11 min Scan# 677
Delta R.T. 0.00 min
Lab File: CAR101.D
Acq: 17 Sep 2008 15:23

Tgt Ion: 91 Resp: 333

Ion	Ratio	Lower	Upper
91	100		
92	64.3	48.2	72.2

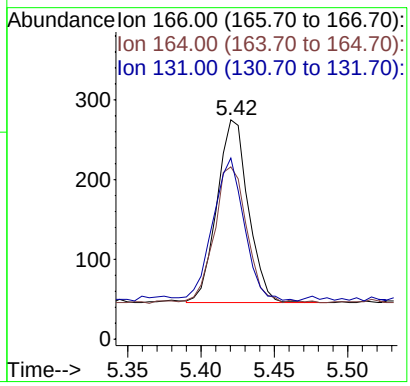




#14
Tetrachloroethene
Concen: 14.61 ppbv
RT: 5.42 min Scan# 758
Delta R.T. 0.01 min
Lab File: CAR101.D
Acq: 17 Sep 2008 15:23

Tgt Ion:166 Resp: 340

Ion	Ratio	Lower	Upper
166	100		
164	77.1	63.1	94.7
131	78.5	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR102.D Vial: 1
Acq On : 17 Sep 2008 15:34 Operator: dlm
Sample : 51431\LA2-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 15:42:40 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1755	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	5569	10.00 ppbv	0.01
12) Chlorobenzene-d5	5.83	117	5214	10.00 ppbv	0.03

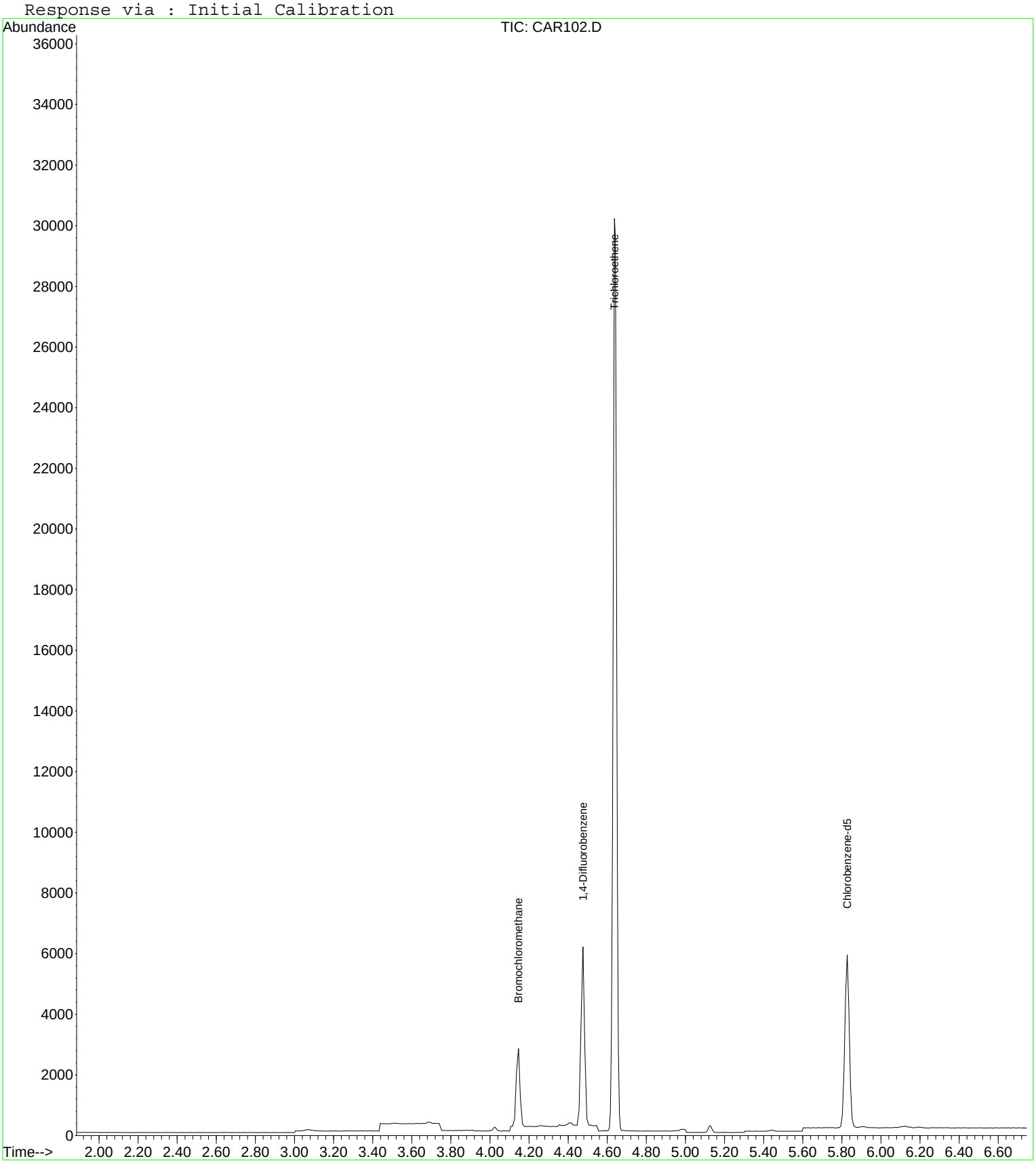
Target Compounds					Qvalue
11) Trichloroethene	4.64	130	13665	719.45 ppbv	93

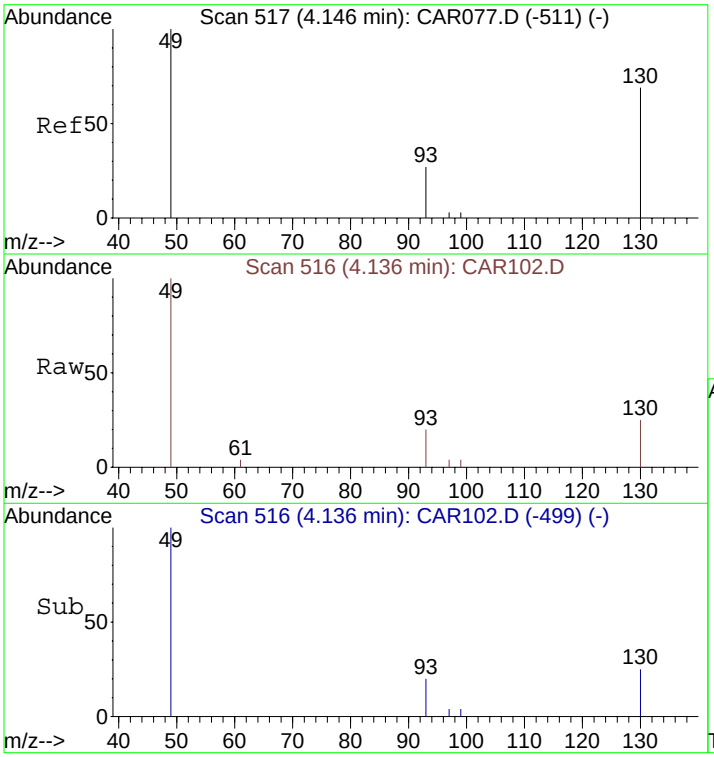
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR102.D Vial: 1
Acq On : 17 Sep 2008 15:34 Operator: dlm
Sample : 51431\LA2-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 15:44 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

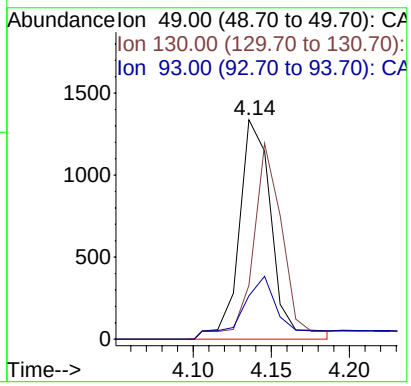


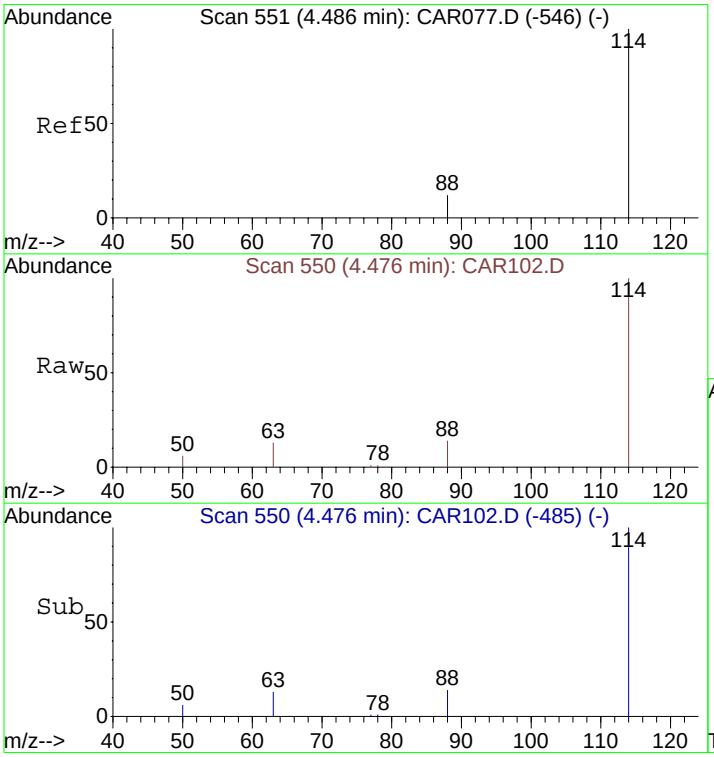


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR102.D
Acq: 17 Sep 2008 15:34

Tgt Ion: 49 Resp: 1755

Ion	Ratio	Lower	Upper
49	100		
130	81.7	65.1	97.7
93	34.2	33.8	50.6

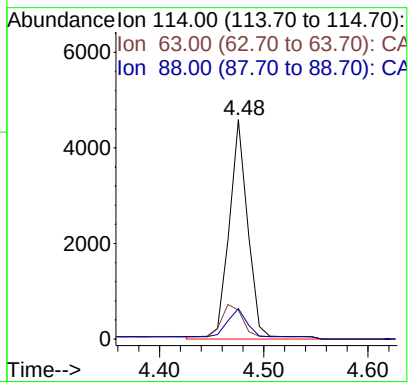


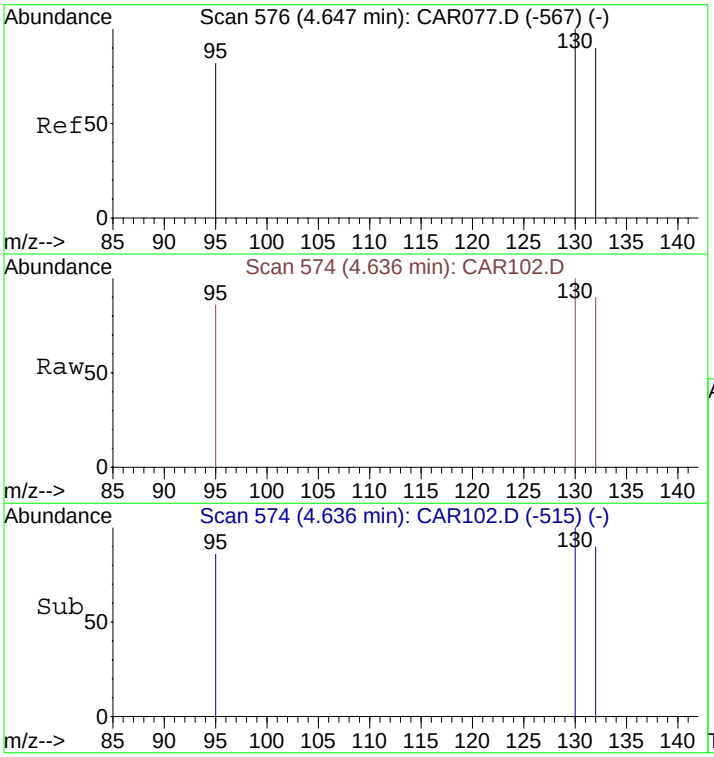


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR102.D
Acq: 17 Sep 2008 15:34

Tgt Ion:114 Resp: 5569

Ion	Ratio	Lower	Upper
114	100		
63	17.8	15.8	23.8
88	18.1	12.2	18.2

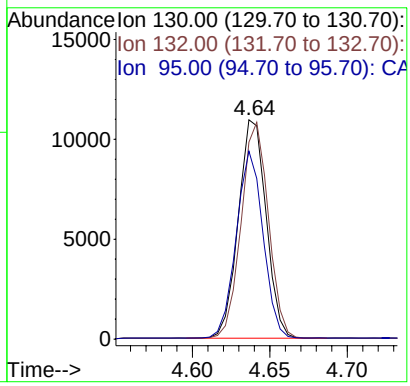


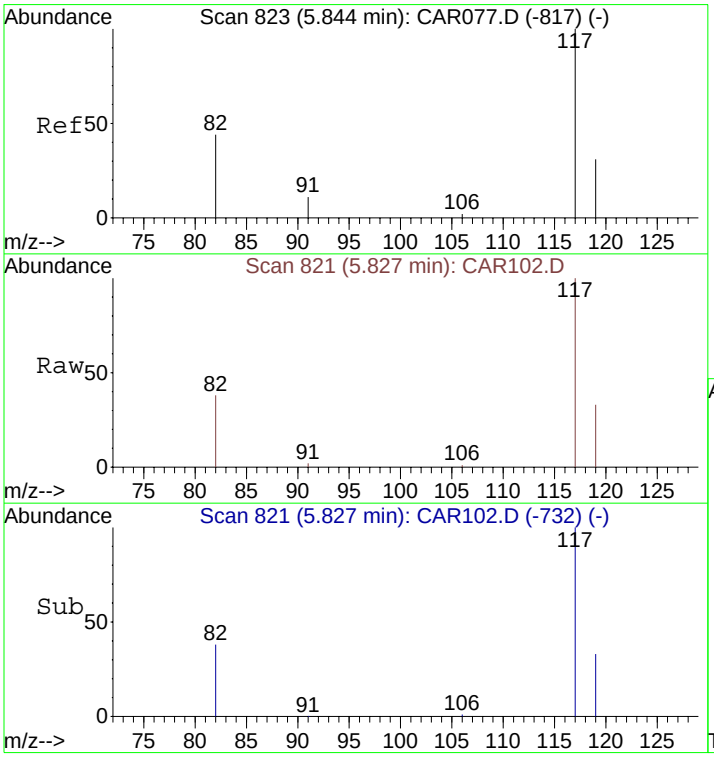


#11
Trichloroethene
Concen: 719.45 ppbv
RT: 4.64 min Scan# 574
Delta R.T. 0.01 min
Lab File: CAR102.D
Acq: 17 Sep 2008 15:34

Tgt Ion:130 Resp: 13665

Ion	Ratio	Lower	Upper
130	100		
132	96.8	73.8	110.6
95	82.3	72.5	108.7

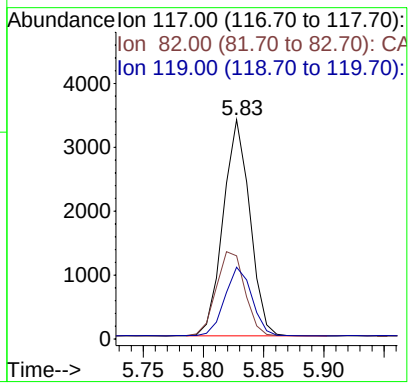




#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.83 min Scan# 821
Delta R.T. 0.03 min
Lab File: CAR102.D
Acq: 17 Sep 2008 15:34

Tgt Ion:117 Resp: 5214

Ion	Ratio	Lower	Upper
117	100		
82	41.9	38.3	57.5
119	32.3	26.0	39.0



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR103.D Vial: 1
Acq On : 17 Sep 2008 15:46 Operator: dlm
Sample : 51432\LA3-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 15:54:02 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1722	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	5343	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.83	117	5133	10.00 ppbv	0.03

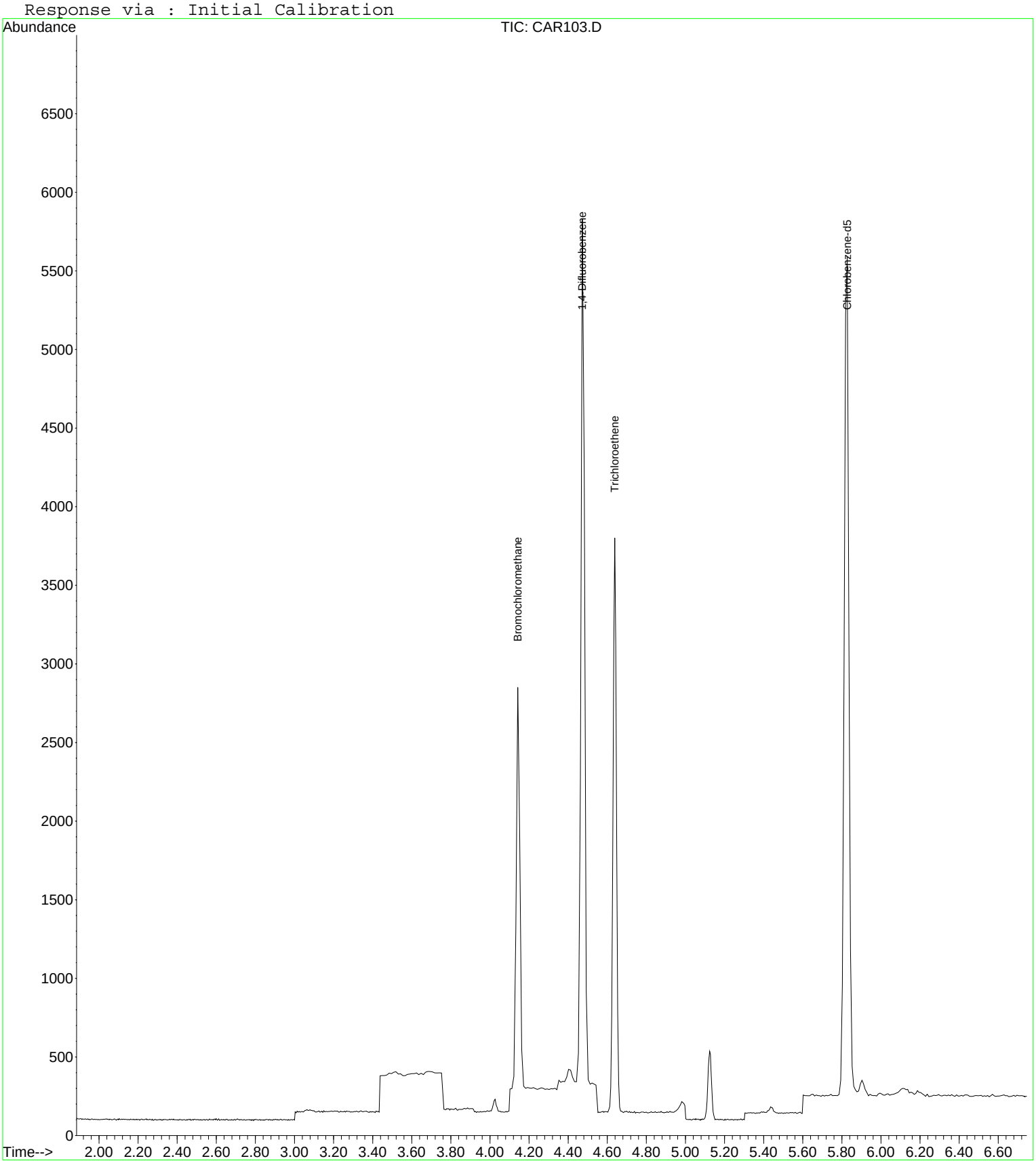
Target Compounds					Qvalue
11) Trichloroethene	4.64	130	1645	90.27 ppbv	95
13) Toluene	5.12	91	364	9.63 ppbv	95

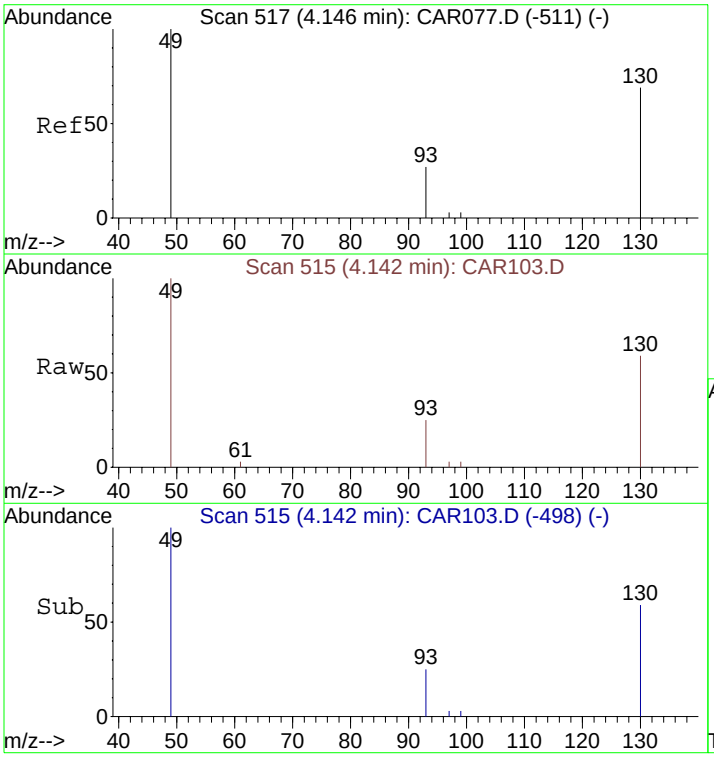
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR103.D Vial: 1
Acq On : 17 Sep 2008 15:46 Operator: dlm
Sample : 51432\LA3-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 15:55 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

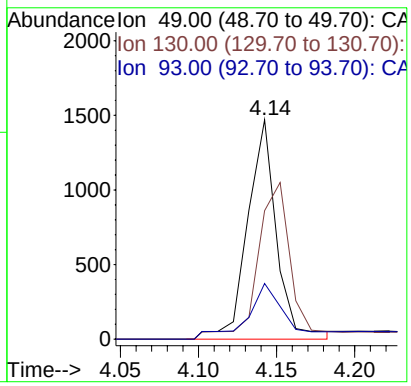


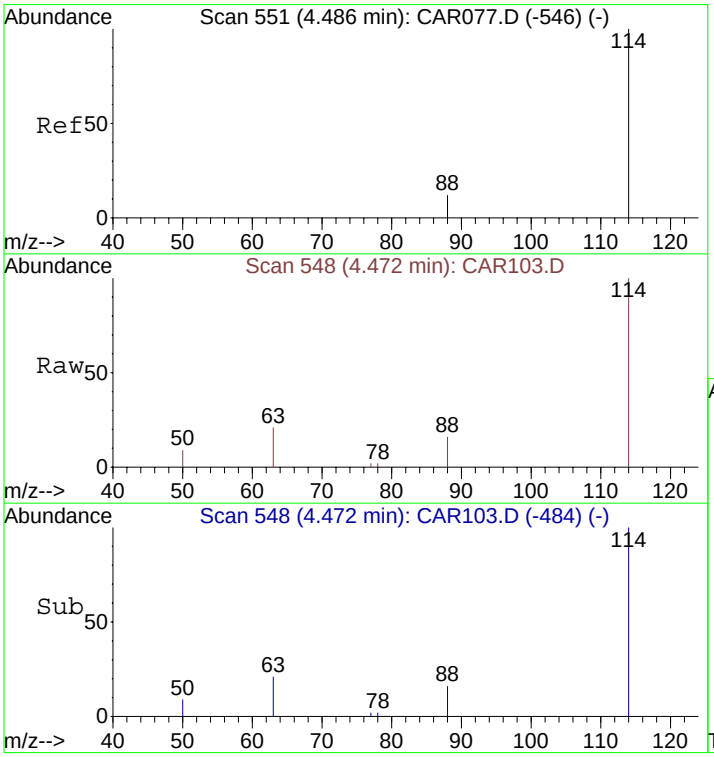


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 515
Delta R.T. 0.01 min
Lab File: CAR103.D
Acq: 17 Sep 2008 15:46

Tgt Ion: 49 Resp: 1722

Ion	Ratio	Lower	Upper
49	100		
130	83.1	65.1	97.7
93	33.2	33.8	50.6#

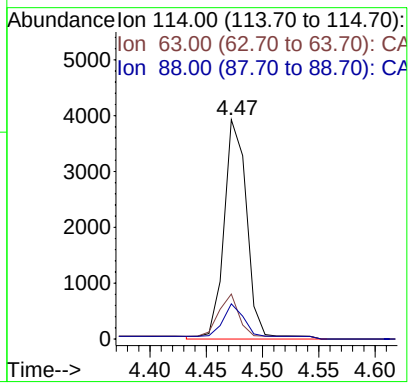


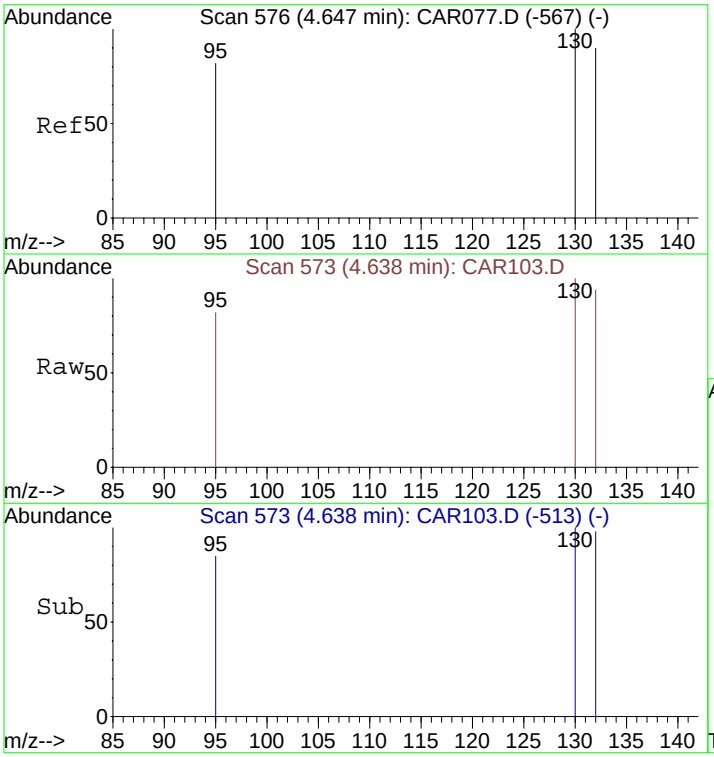


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 548
Delta R.T. 0.01 min
Lab File: CAR103.D
Acq: 17 Sep 2008 15:46

Tgt Ion:114 Resp: 5343

Ion	Ratio	Lower	Upper
114	100		
63	22.4	15.8	23.8
88	18.6	12.2	18.2#

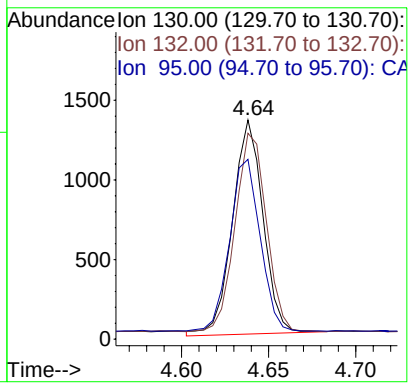


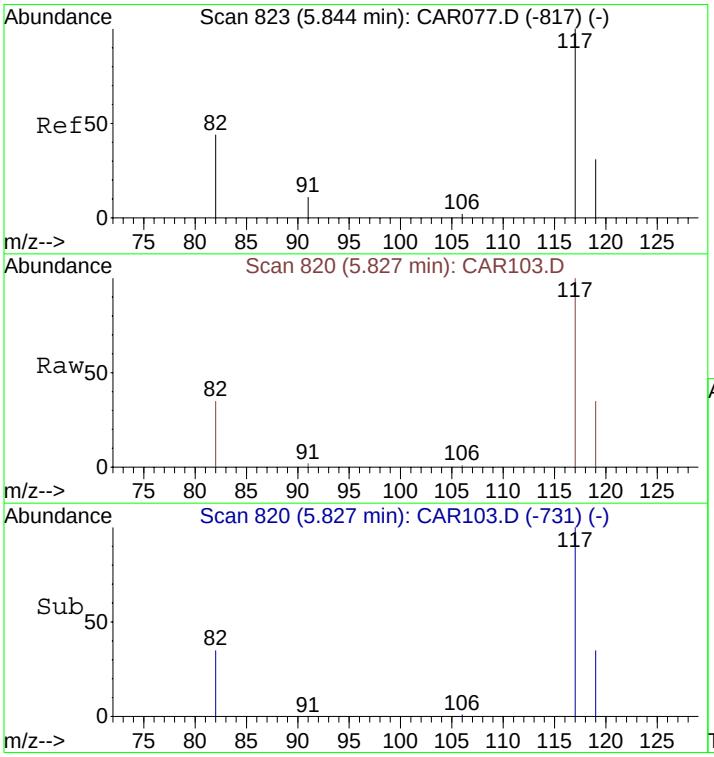


#11
Trichloroethene
Concen: 90.27 ppbv
RT: 4.64 min Scan# 573
Delta R.T. 0.01 min
Lab File: CAR103.D
Acq: 17 Sep 2008 15:46

Tgt Ion:130 Resp: 1645

Ion	Ratio	Lower	Upper
130	100		
132	94.3	73.8	110.6
95	83.0	72.5	108.7

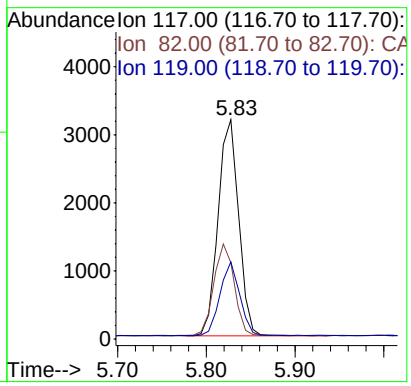


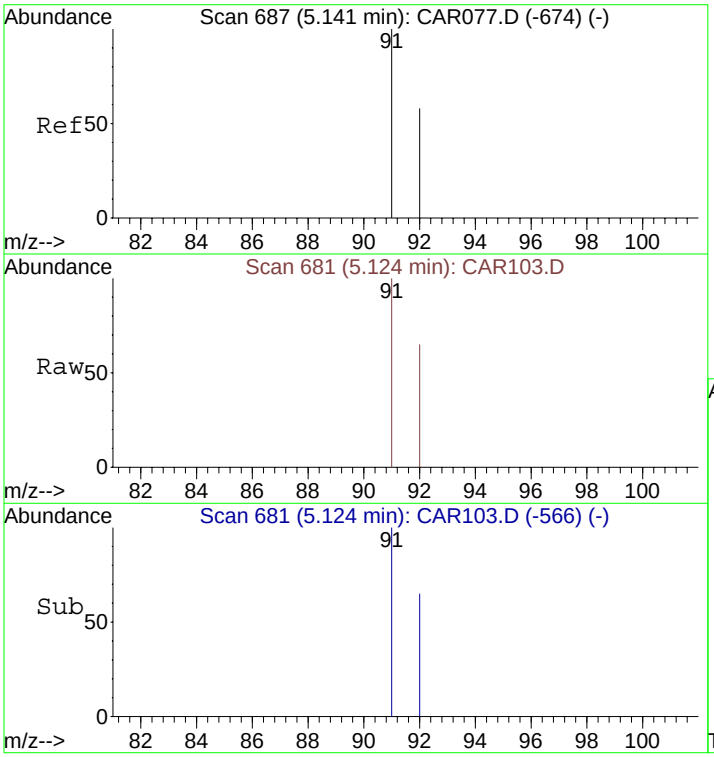


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.83 min Scan# 820
Delta R.T. 0.03 min
Lab File: CAR103.D
Acq: 17 Sep 2008 15:46

Tgt Ion:117 Resp: 5133

Ion	Ratio	Lower	Upper
117	100		
82	42.0	38.3	57.5
119	32.8	26.0	39.0

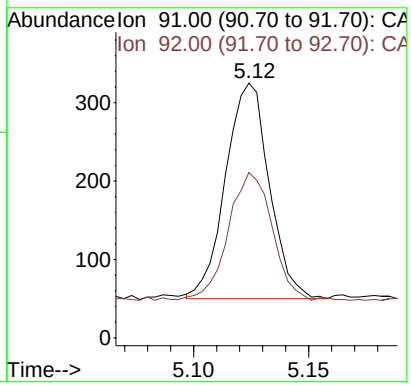




#13
Toluene
Concen: 9.63 ppbv
RT: 5.12 min Scan# 681
Delta R.T. 0.02 min
Lab File: CAR103.D
Acq: 17 Sep 2008 15:46

Tgt Ion: 91 Resp: 364

Ion	Ratio	Lower	Upper
91	100		
92	56.0	48.2	72.2



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR104.D Vial: 1
Acq On : 17 Sep 2008 15:58 Operator: dlm
Sample : 51433\LA4-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 16:07:04 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1700	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	5376	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.81	117	5038	10.00 ppbv	0.02

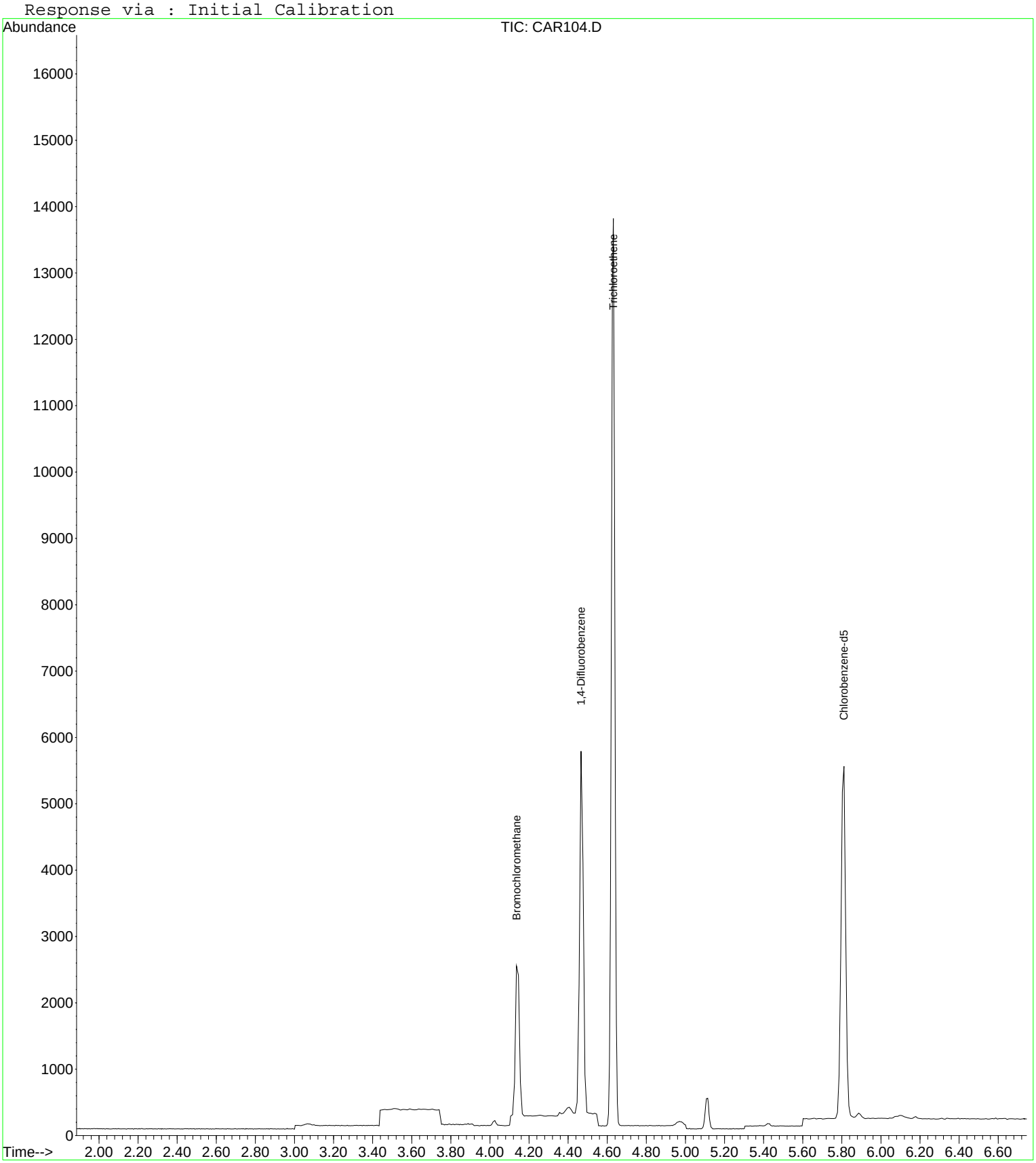
Target Compounds					Qvalue
11) Trichloroethene	4.63	130	5994	326.91 ppbv	93
13) Toluene	5.11	91	398	10.73 ppbv	99

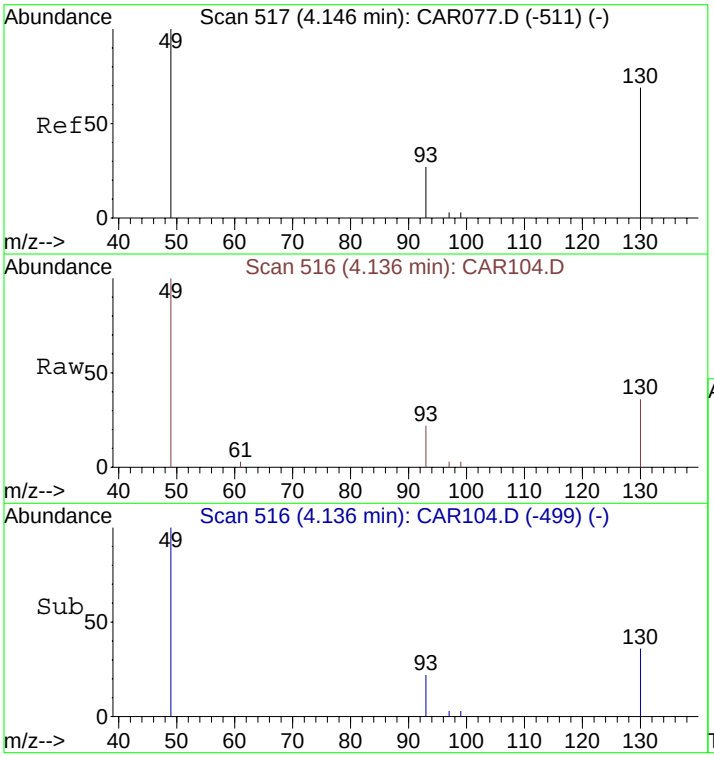
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR104.D Vial: 1
Acq On : 17 Sep 2008 15:58 Operator: dlm
Sample : 51433\LA4-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 16:08 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

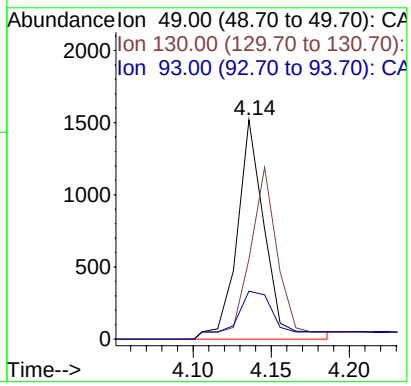


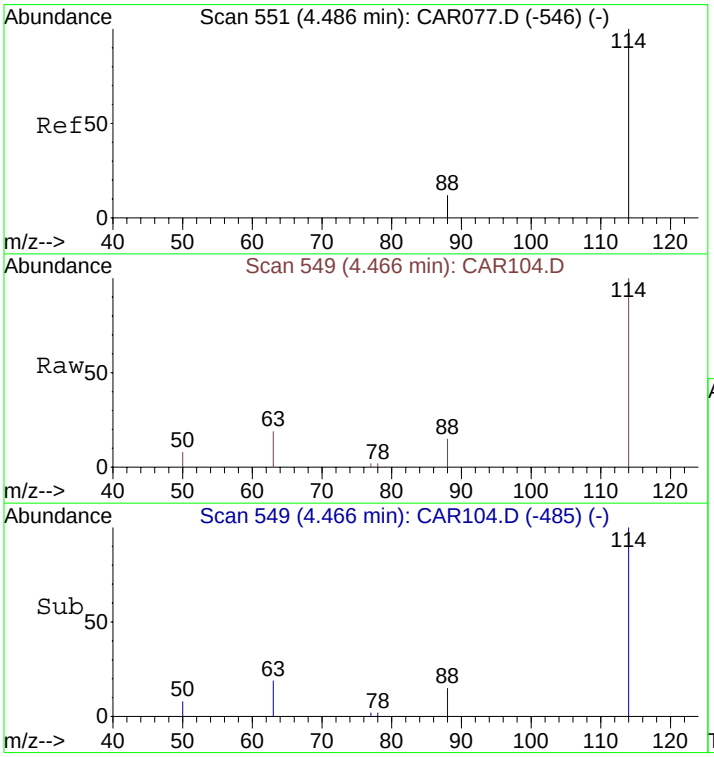


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR104.D
Acq: 17 Sep 2008 15:58

Tgt Ion: 49 Resp: 1700

Ion	Ratio	Lower	Upper
49	100		
130	81.4	65.1	97.7
93	31.8	33.8	50.6#

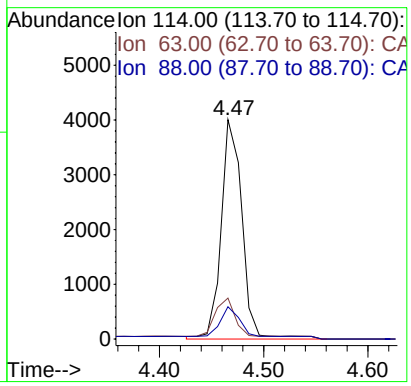


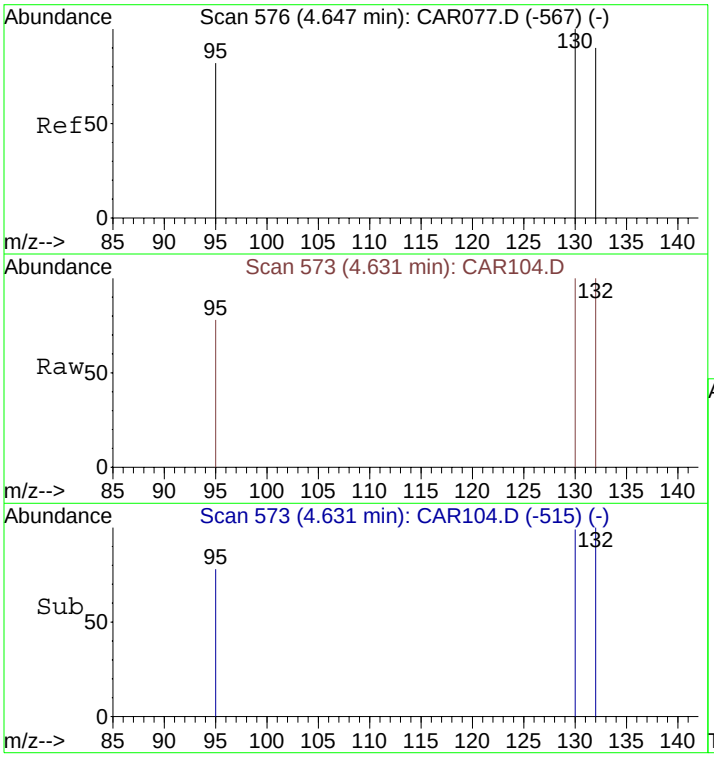


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. 0.00 min
Lab File: CAR104.D
Acq: 17 Sep 2008 15:58

Tgt Ion:114 Resp: 5376

Ion	Ratio	Lower	Upper
114	100		
63	23.4	15.8	23.8
88	18.4	12.2	18.2#

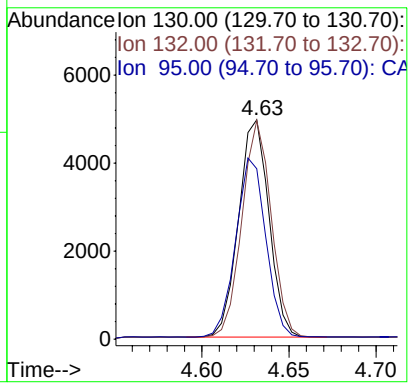


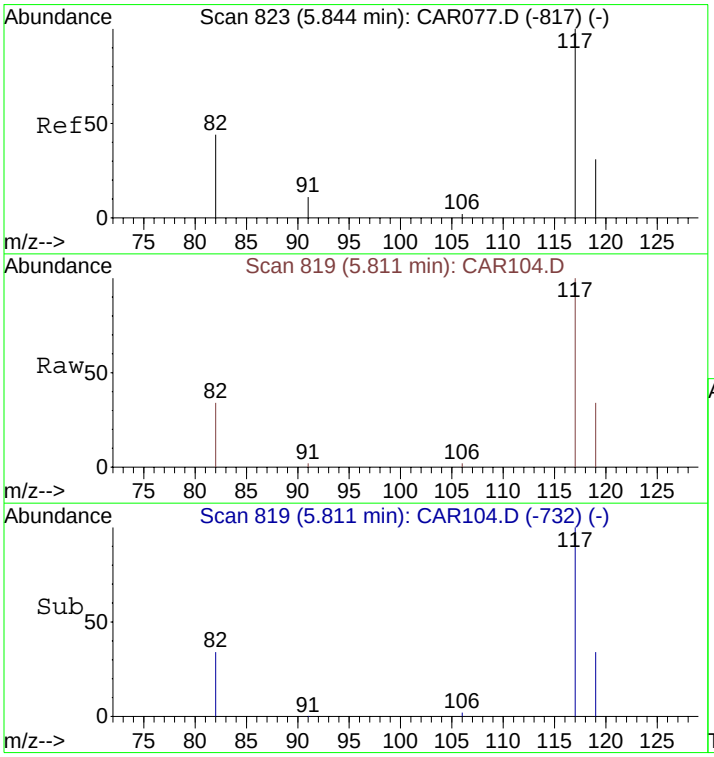


#11
Trichloroethene
Concen: 326.91 ppbv
RT: 4.63 min Scan# 573
Delta R.T. 0.01 min
Lab File: CAR104.D
Acq: 17 Sep 2008 15:58

Tgt Ion:130 Resp: 5994

Ion	Ratio	Lower	Upper
130	100		
132	96.2	73.8	110.6
95	81.5	72.5	108.7

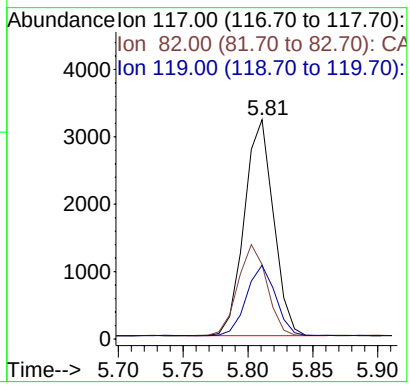


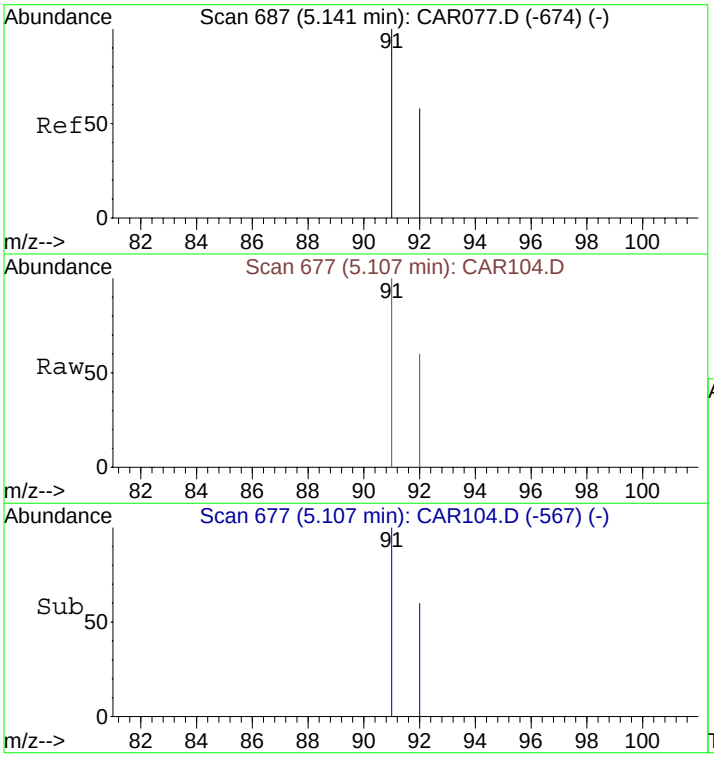


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.81 min Scan# 819
Delta R.T. 0.02 min
Lab File: CAR104.D
Acq: 17 Sep 2008 15:58

Tgt Ion:117 Resp: 5038

Ion	Ratio	Lower	Upper
117	100		
82	42.0	38.3	57.5
119	32.4	26.0	39.0

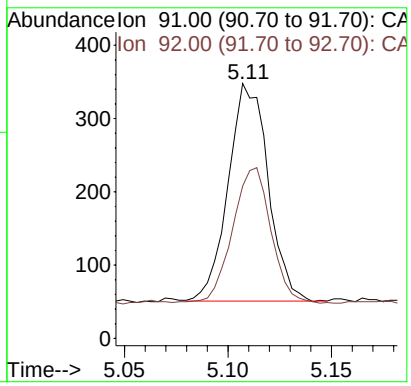




#13
Toluene
Concen: 10.73 ppbv
RT: 5.11 min Scan# 677
Delta R.T. 0.00 min
Lab File: CAR104.D
Acq: 17 Sep 2008 15:58

Tgt Ion: 91 Resp: 398

Ion	Ratio	Lower	Upper
91	100		
92	59.5	48.2	72.2



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR105.D Vial: 1
Acq On : 17 Sep 2008 16:10 Operator: dlm
Sample : 51434\LA5-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 16:18:32 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.13	49	1683	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.46	114	5292	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.79	117	4991	10.00 ppbv	0.00

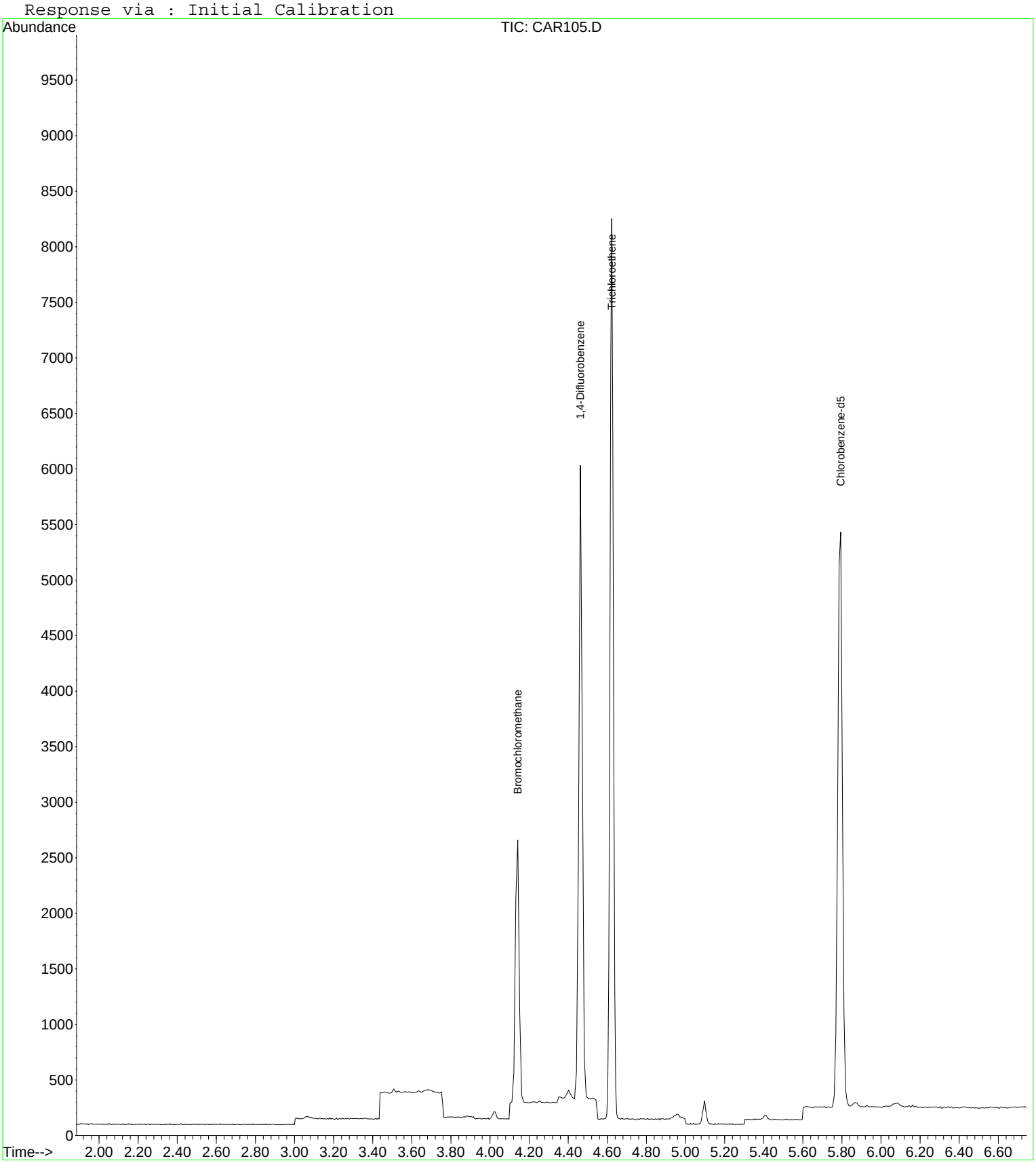
Target Compounds					Qvalue
11) Trichloroethene	4.62	130	3525	195.30 ppbv	95

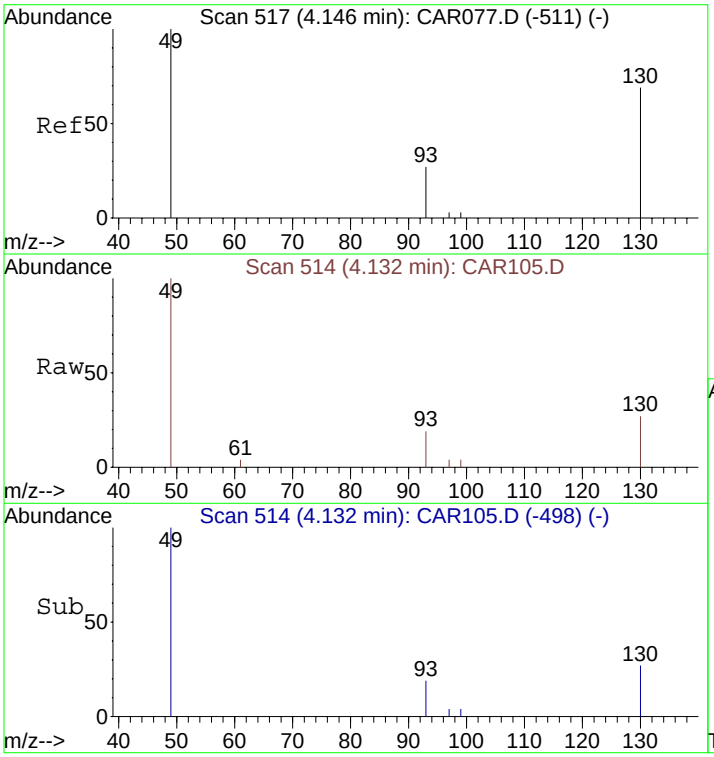
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR105.D Vial: 1
Acq On : 17 Sep 2008 16:10 Operator: dlm
Sample : 51434\LA5-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 16:19 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

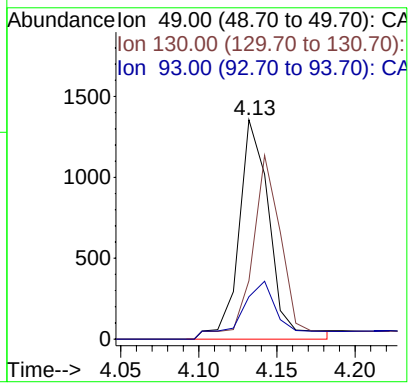


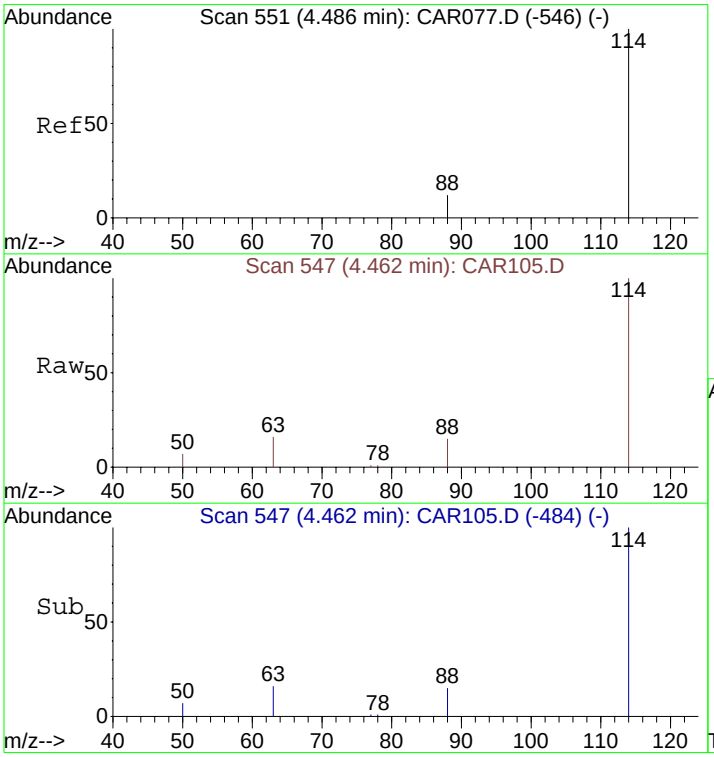


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.13 min Scan# 514
Delta R.T. -0.00 min
Lab File: CAR105.D
Acq: 17 Sep 2008 16:10

Tgt Ion: 49 Resp: 1683

Ion	Ratio	Lower	Upper
49	100		
130	80.6	65.1	97.7
93	35.8	33.8	50.6

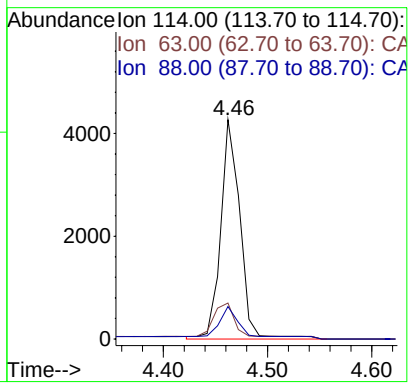


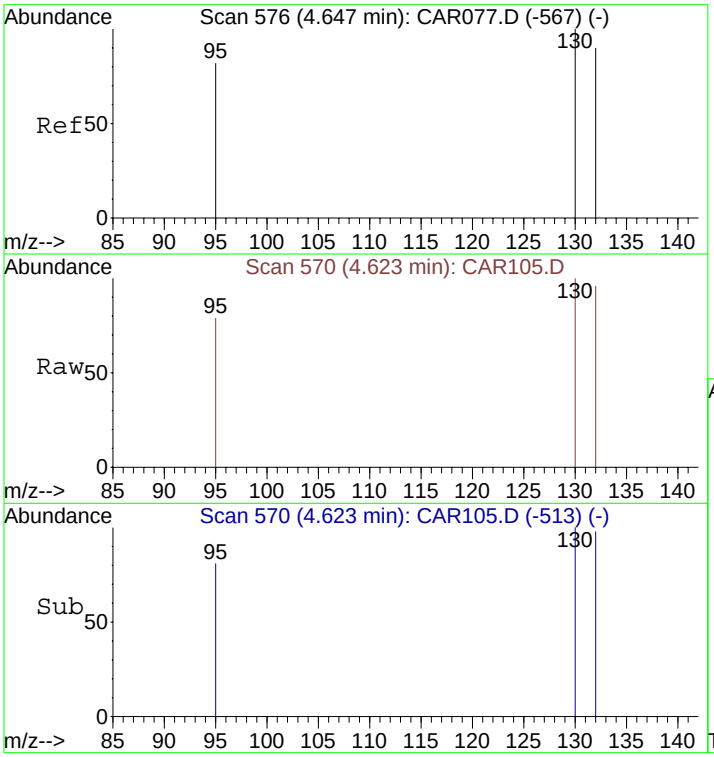


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.46 min Scan# 547
Delta R.T. -0.00 min
Lab File: CAR105.D
Acq: 17 Sep 2008 16:10

Tgt Ion:114 Resp: 5292

Ion	Ratio	Lower	Upper
114	100		
63	22.5	15.8	23.8
88	18.6	12.2	18.2#

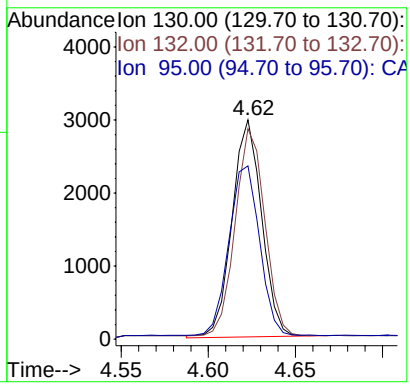


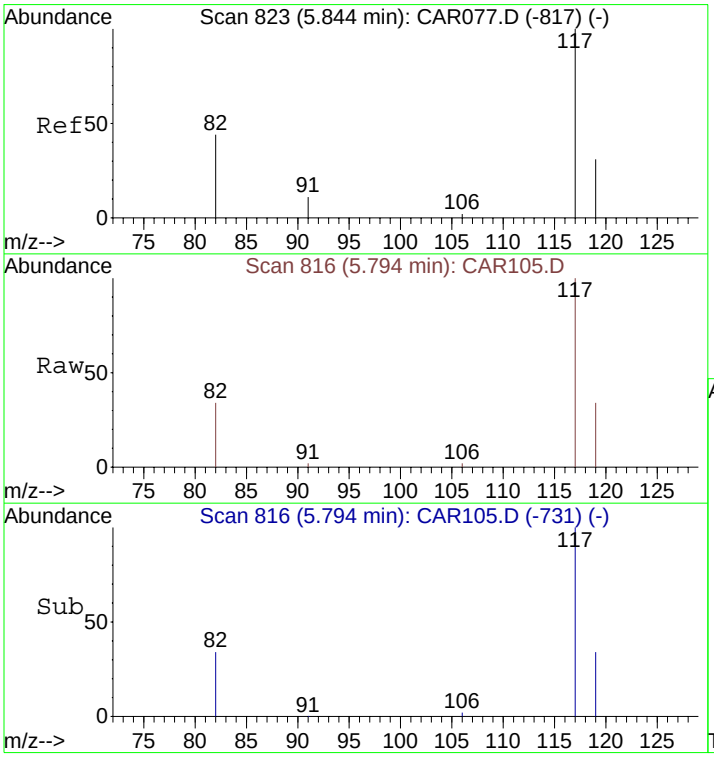


#11
Trichloroethene
Concen: 195.30 ppbv
RT: 4.62 min Scan# 570
Delta R.T. -0.00 min
Lab File: CAR105.D
Acq: 17 Sep 2008 16:10

Tgt Ion:130 Resp: 3525

Ion	Ratio	Lower	Upper
130	100		
132	94.3	73.8	110.6
95	82.7	72.5	108.7

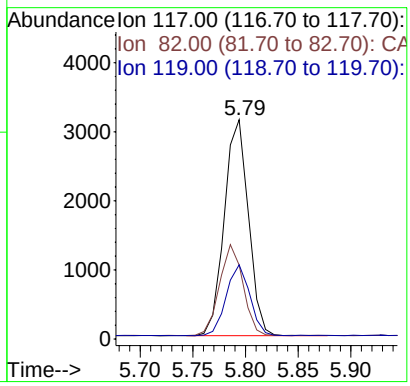




#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.79 min Scan# 816
Delta R.T. 0.00 min
Lab File: CAR105.D
Acq: 17 Sep 2008 16:10

Tgt Ion:117 Resp: 4991

Ion	Ratio	Lower	Upper
117	100		
82	41.1	38.3	57.5
119	32.2	26.0	39.0



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR106.D Vial: 1
Acq On : 17 Sep 2008 16:23 Operator: dlm
Sample : 51435\LB4-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 16:46:28 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.13	49	1705	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.46	114	5138	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.79	117	4966	10.00 ppbv	0.00

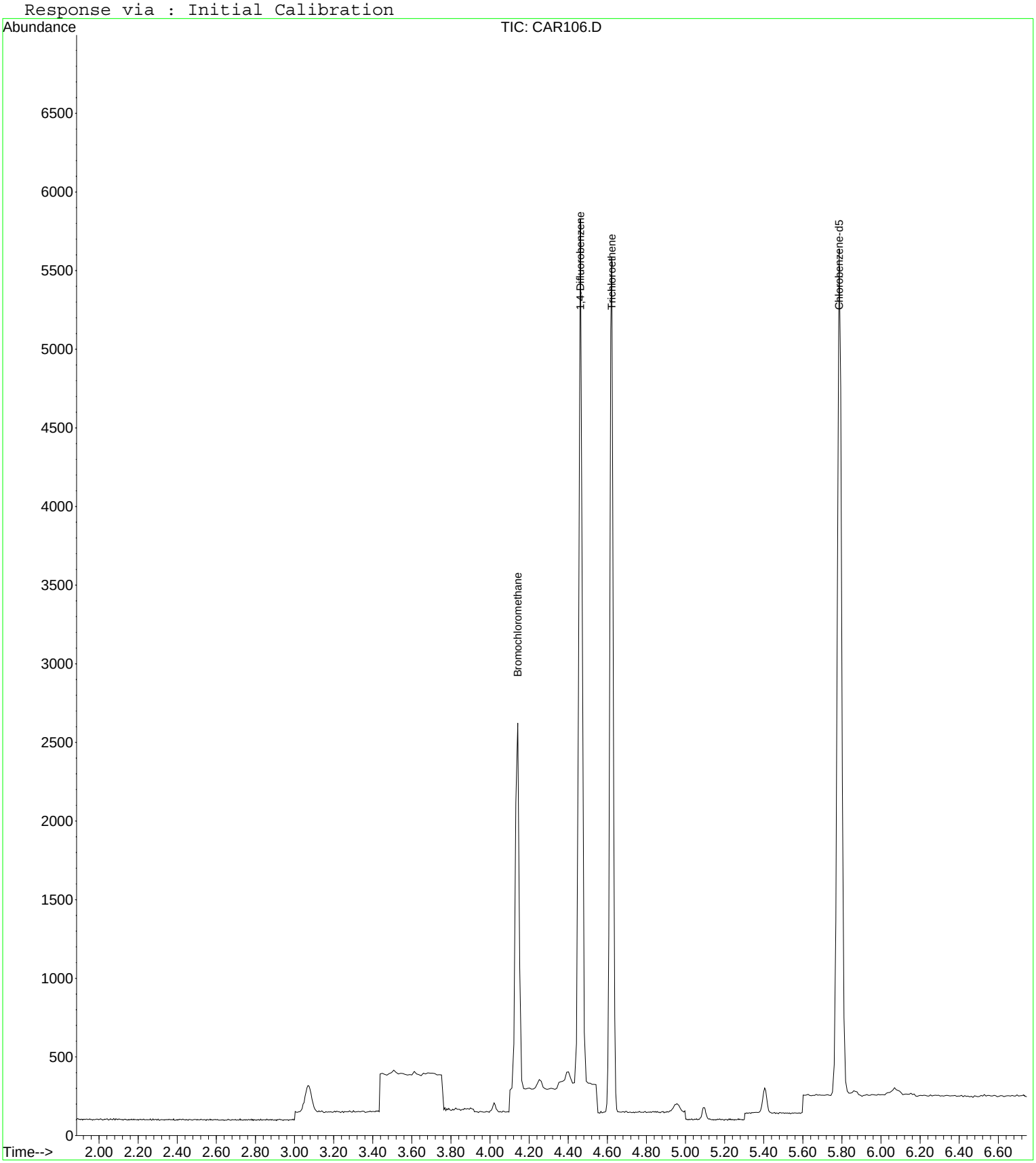
Target Compounds					Qvalue
11) Trichloroethene	4.62	130	2417	137.93 ppbv	93

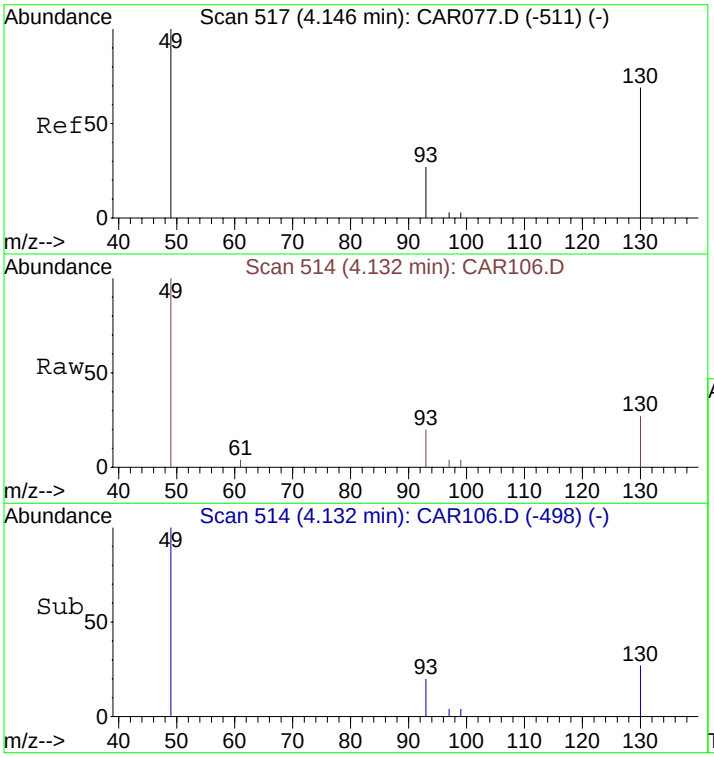
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR106.D Vial: 1
Acq On : 17 Sep 2008 16:23 Operator: dlm
Sample : 51435\LB4-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 16:48 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

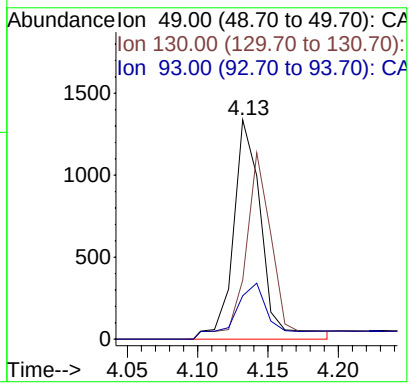


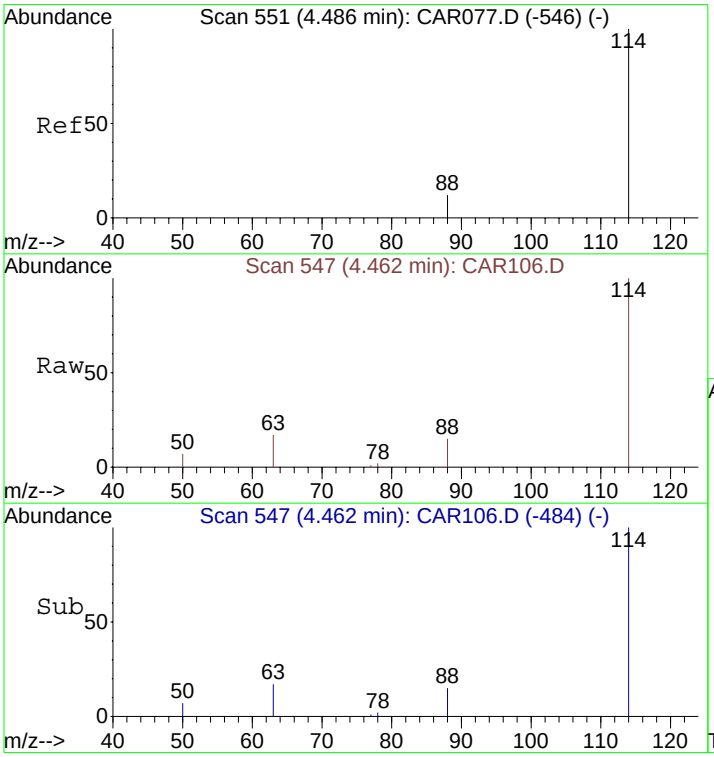


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.13 min Scan# 514
Delta R.T. -0.00 min
Lab File: CAR106.D
Acq: 17 Sep 2008 16:23

Tgt Ion: 49 Resp: 1705

Ion	Ratio	Lower	Upper
49	100		
130	78.5	65.1	97.7
93	30.7	33.8	50.6#

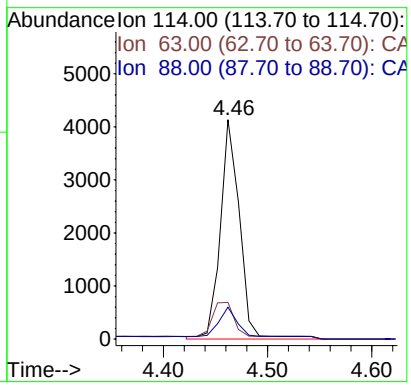


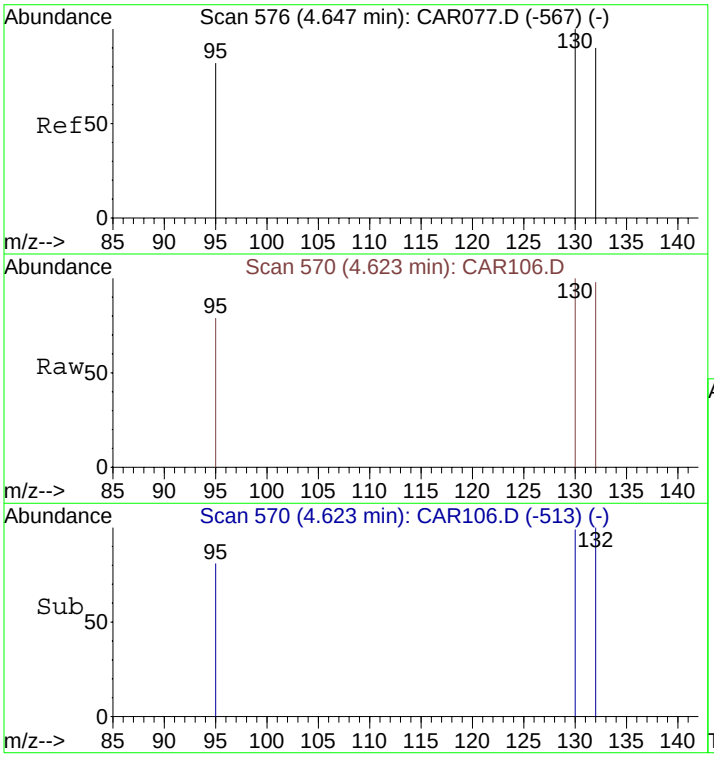


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.46 min Scan# 547
Delta R.T. -0.00 min
Lab File: CAR106.D
Acq: 17 Sep 2008 16:23

Tgt Ion:114 Resp: 5138

Ion	Ratio	Lower	Upper
114	100		
63	18.9	15.8	23.8
88	18.0	12.2	18.2

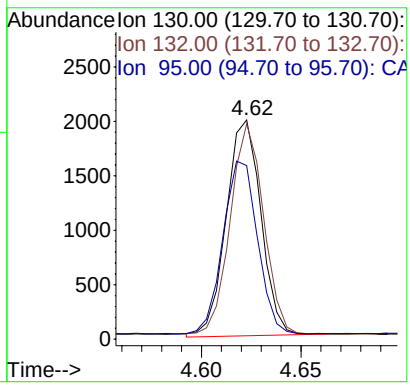


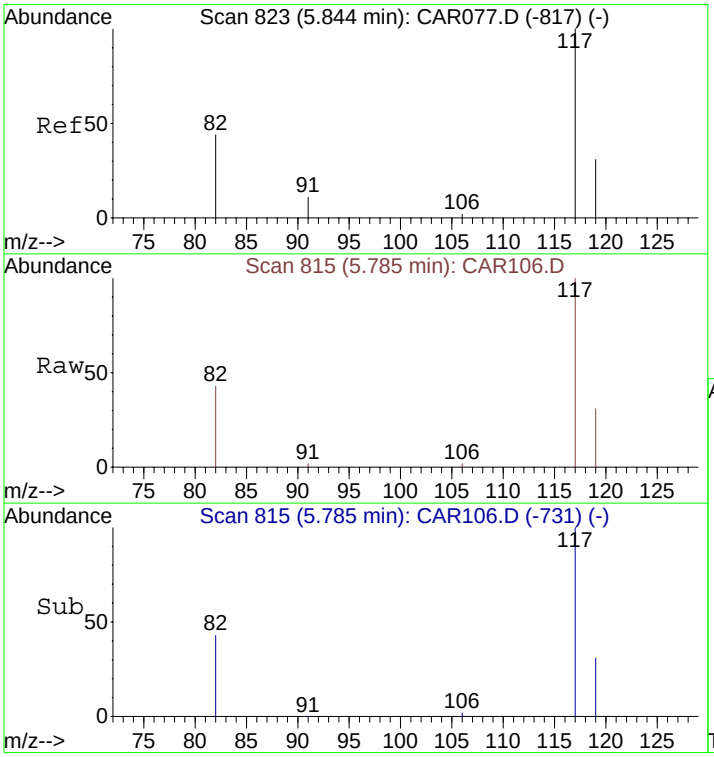


#11
Trichloroethene
Concen: 137.93 ppbv
RT: 4.62 min Scan# 570
Delta R.T. -0.00 min
Lab File: CAR106.D
Acq: 17 Sep 2008 16:23

Tgt Ion:130 Resp: 2417

Ion	Ratio	Lower	Upper
130	100		
132	96.2	73.8	110.6
95	81.6	72.5	108.7

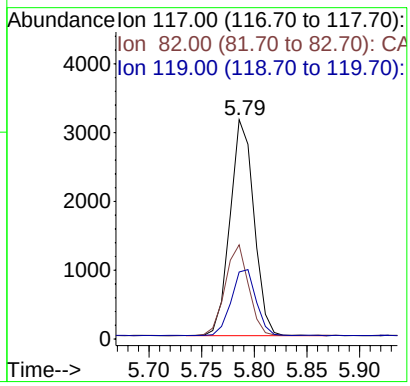




#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.79 min Scan# 815
Delta R.T. -0.01 min
Lab File: CAR106.D
Acq: 17 Sep 2008 16:23

Tgt Ion:117 Resp: 4966

Ion	Ratio	Lower	Upper
117	100		
82	41.2	38.3	57.5
119	31.6	26.0	39.0



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR107.D Vial: 1
Acq On : 17 Sep 2008 16:41 Operator: dlm
Sample : 51436\LB3-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 16:49:00 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1687	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	5074	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.82	117	5050	10.00 ppbv	0.03

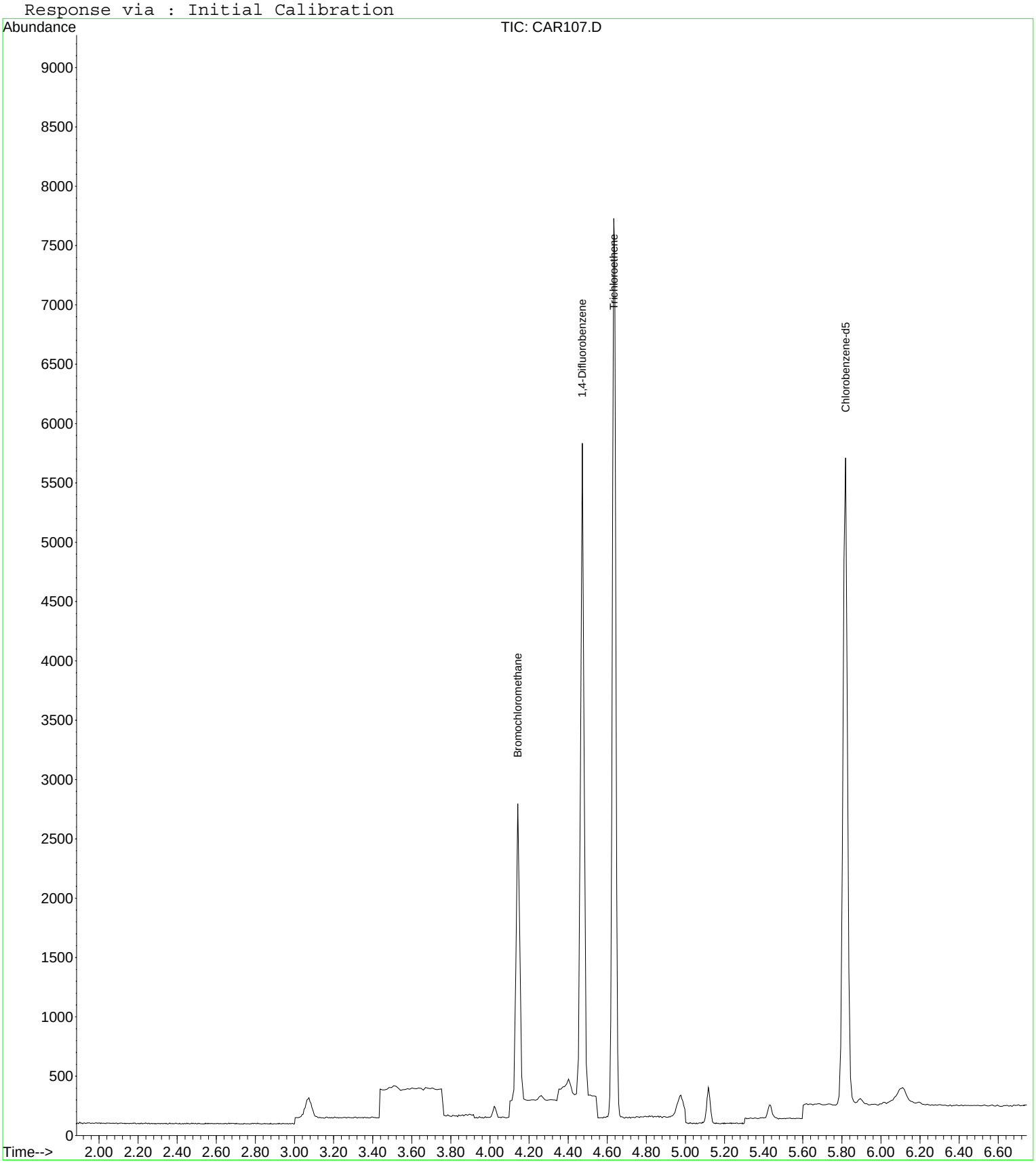
Target Compounds					Qvalue
10) Benzene	4.40	78	170m	5.78 ppbv	
11) Trichloroethene	4.63	130	3389	195.83 ppbv	93
13) Toluene	5.12	91	235	6.32 ppbv	95

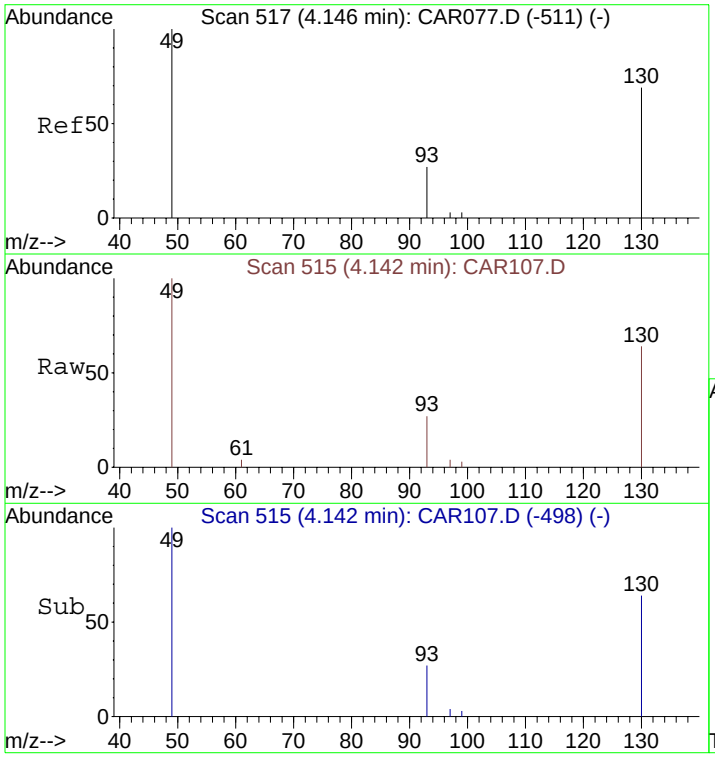
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR107.D Vial: 1
Acq On : 17 Sep 2008 16:41 Operator: dlm
Sample : 51436\LB3-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 16:50 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

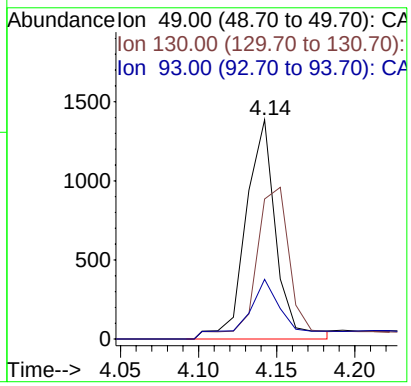


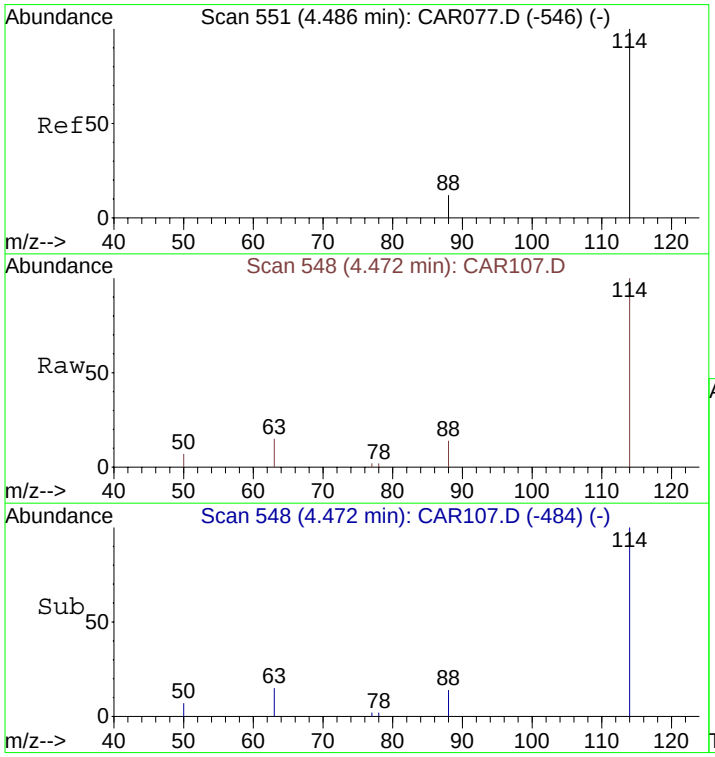


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 515
Delta R.T. 0.01 min
Lab File: CAR107.D
Acq: 17 Sep 2008 16:41

Tgt Ion: 49 Resp: 1687

Ion	Ratio	Lower	Upper
49	100		
130	79.0	65.1	97.7
93	35.4	33.8	50.6

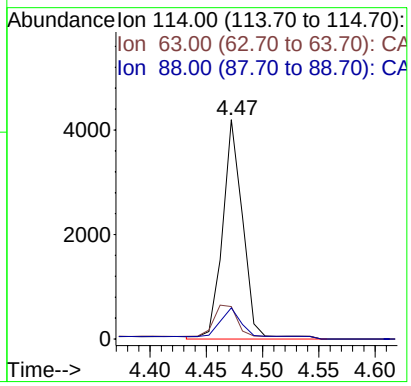


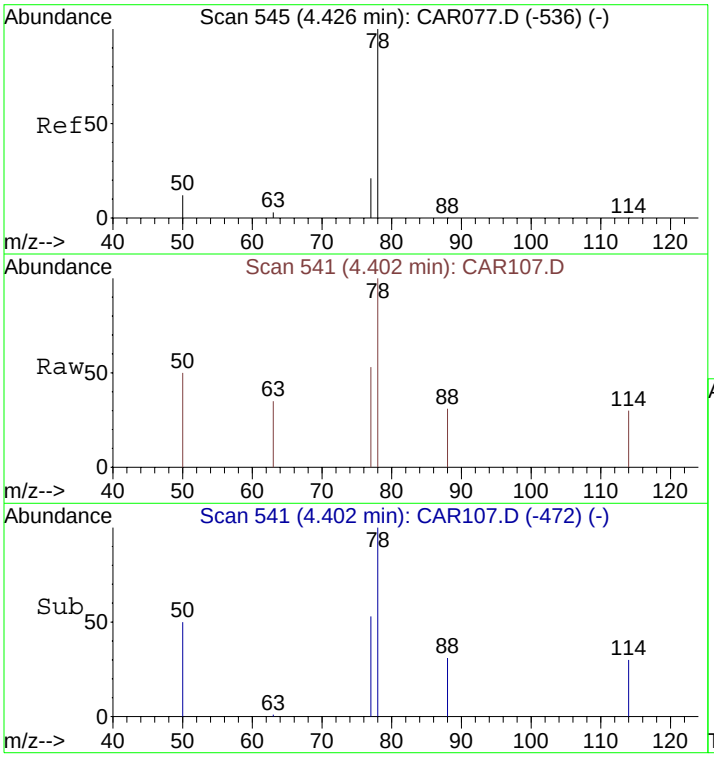


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 548
Delta R.T. 0.01 min
Lab File: CAR107.D
Acq: 17 Sep 2008 16:41

Tgt Ion:114 Resp: 5074

Ion	Ratio	Lower	Upper
114	100		
63	18.2	15.8	23.8
88	18.8	12.2	18.2#

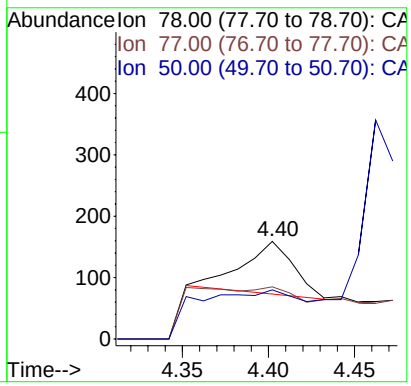


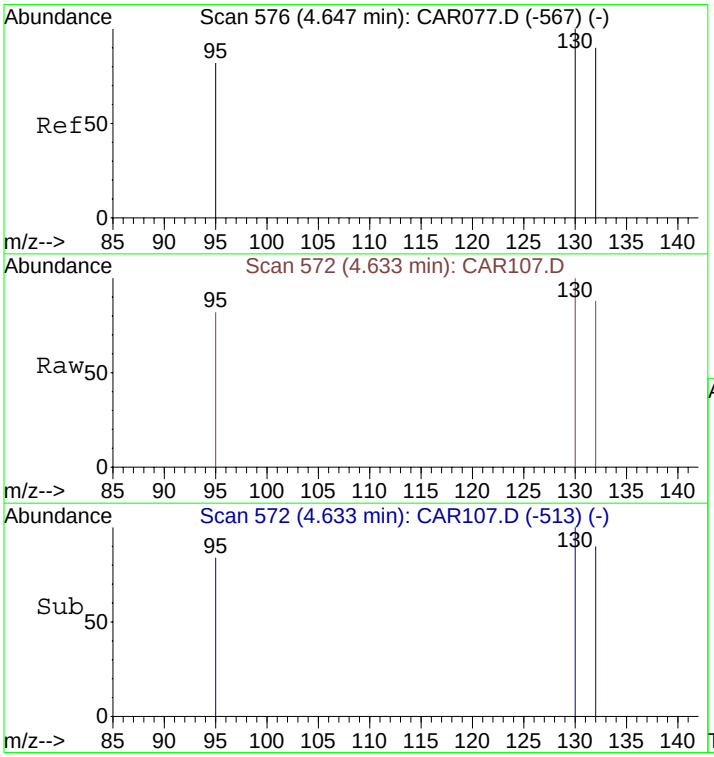


#10
Benzene
Concen: 5.78 ppbv m
RT: 4.40 min Scan# 541
Delta R.T. -0.00 min
Lab File: CAR107.D
Acq: 17 Sep 2008 16:41

Tgt Ion: 78 Resp: 170

Ion	Ratio	Lower	Upper
78	100		
77	114.7	18.6	28.0#
50	196.5	16.2	24.4#

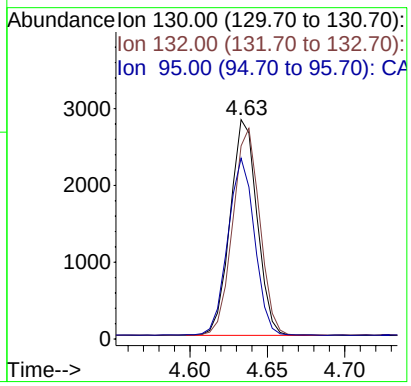


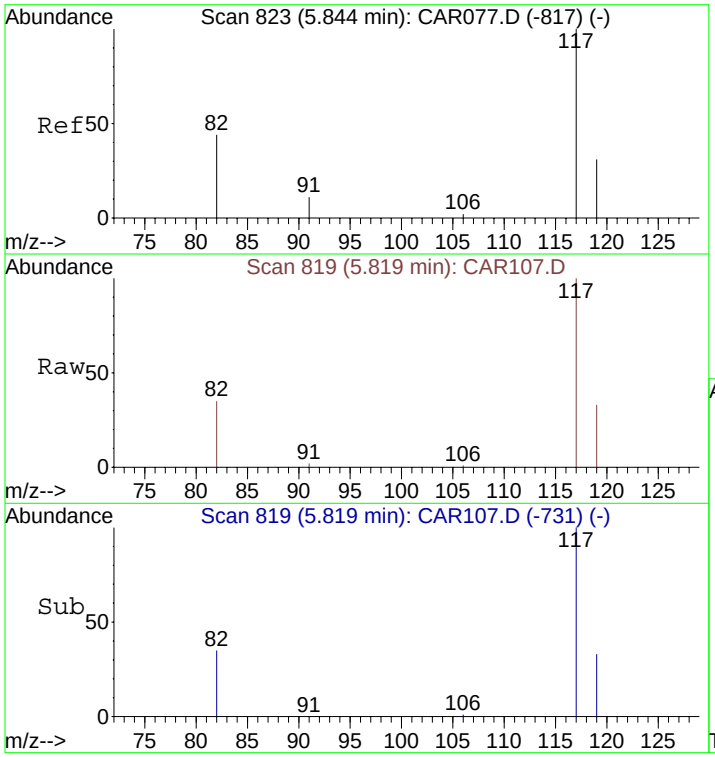


#11
Trichloroethene
Concen: 195.83 ppbv
RT: 4.63 min Scan# 572
Delta R.T. 0.01 min
Lab File: CAR107.D
Acq: 17 Sep 2008 16:41

Tgt Ion:130 Resp: 3389

Ion	Ratio	Lower	Upper
130	100		
132	96.2	73.8	110.6
95	81.5	72.5	108.7

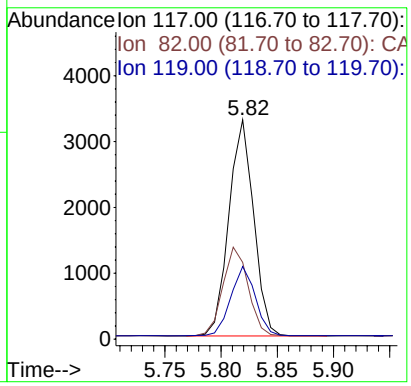


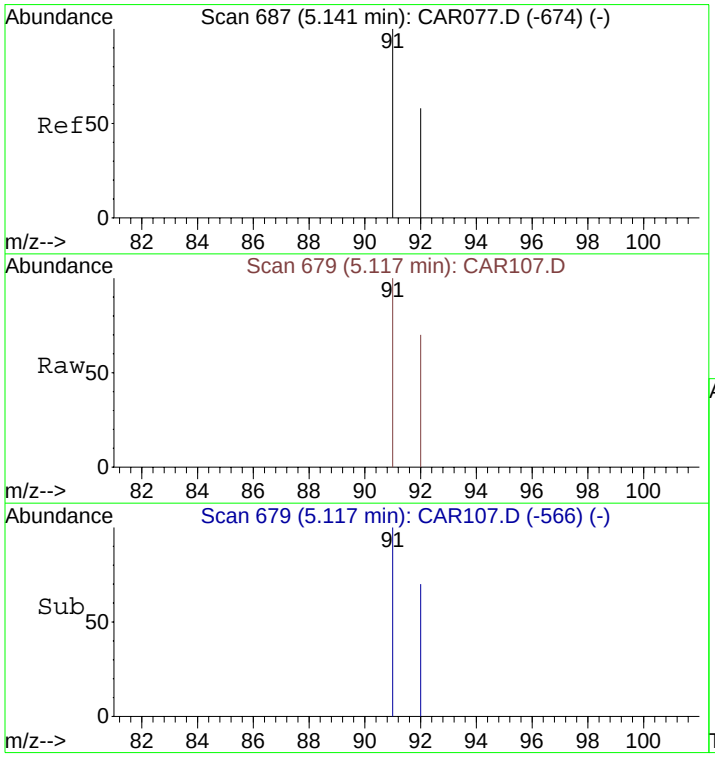


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.82 min Scan# 819
Delta R.T. 0.03 min
Lab File: CAR107.D
Acq: 17 Sep 2008 16:41

Tgt Ion:117 Resp: 5050

Ion	Ratio	Lower	Upper
117	100		
82	42.2	38.3	57.5
119	31.6	26.0	39.0

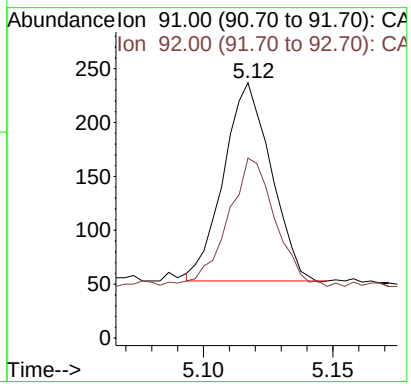




#13
Toluene
Concen: 6.32 ppbv
RT: 5.12 min Scan# 679
Delta R.T. 0.01 min
Lab File: CAR107.D
Acq: 17 Sep 2008 16:41

Tgt Ion: 91 Resp: 235

Ion	Ratio	Lower	Upper
91	100		
92	63.8	48.2	72.2



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR108.D Vial: 1
Acq On : 17 Sep 2008 17:01 Operator: dlm
Sample : 51437\LB2-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 17:08:55 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	2125	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	6730	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.80	117	6206	10.00 ppbv	0.00

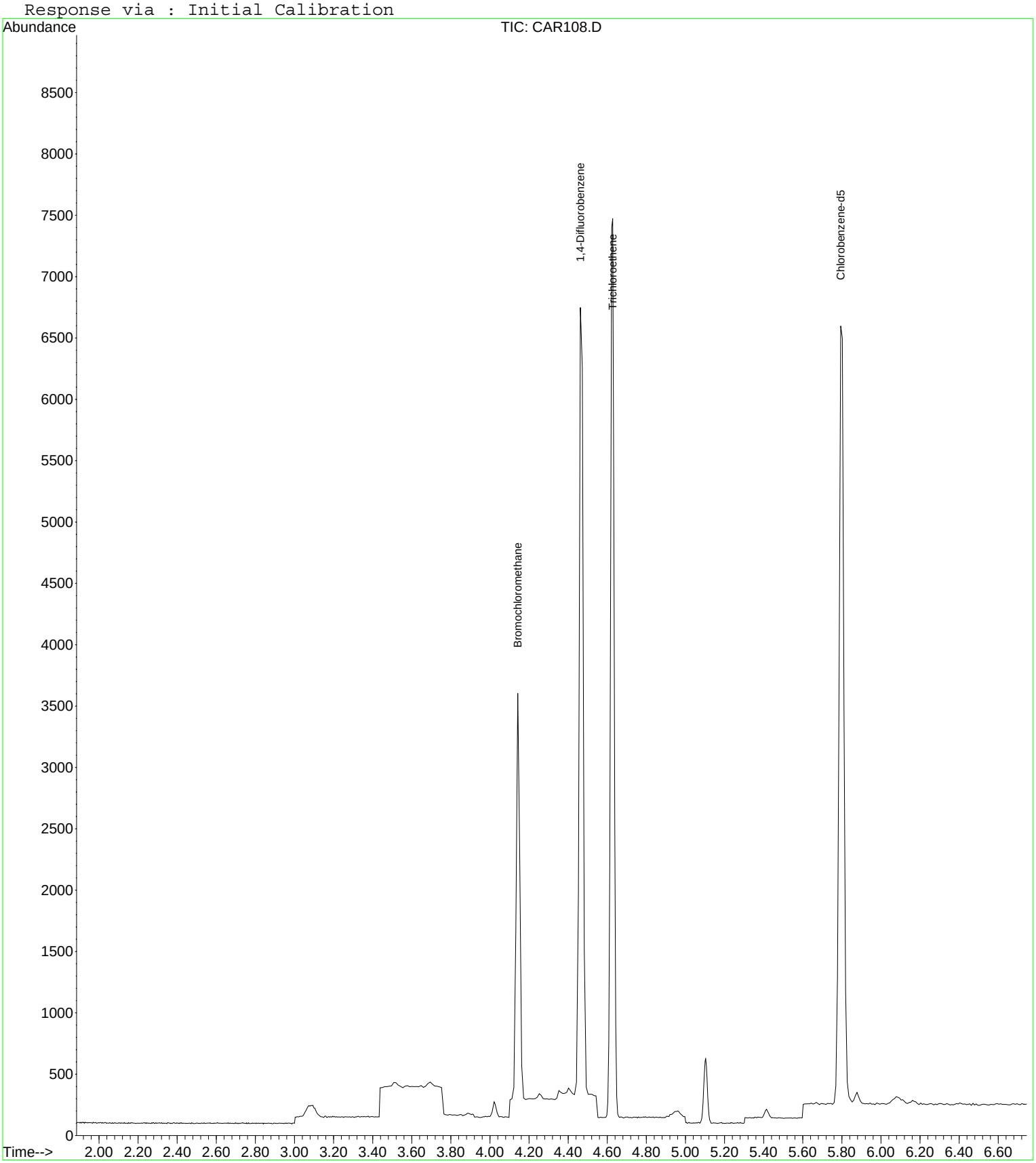
Target Compounds					Qvalue
11) Trichloroethene	4.63	130	3395	147.91 ppbv	95
13) Toluene	5.10	91	425	9.30 ppbv	99

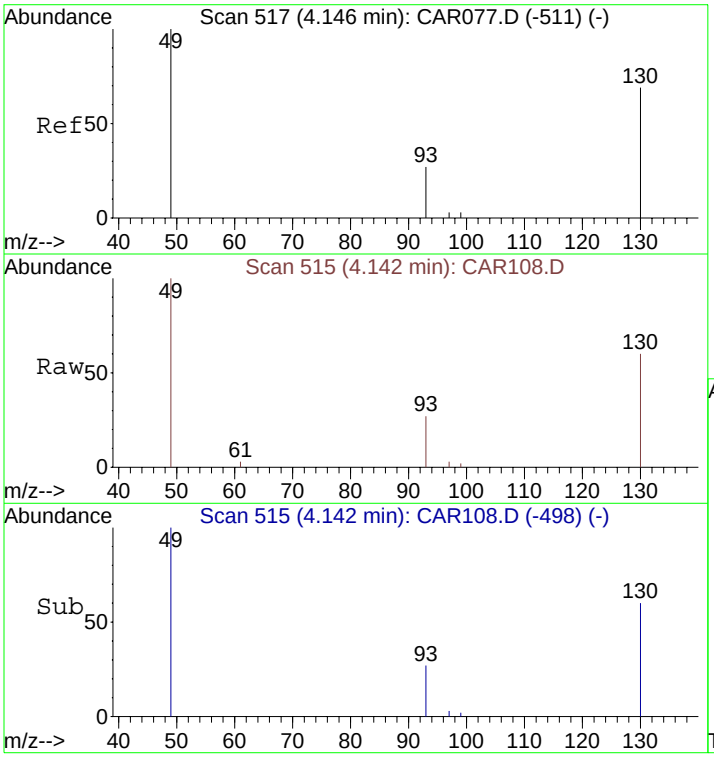
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR108.D Vial: 1
Acq On : 17 Sep 2008 17:01 Operator: dlm
Sample : 51437\LB2-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 17:09 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

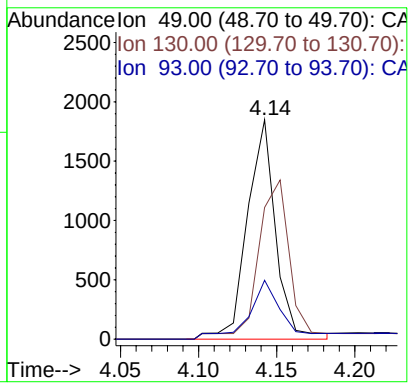


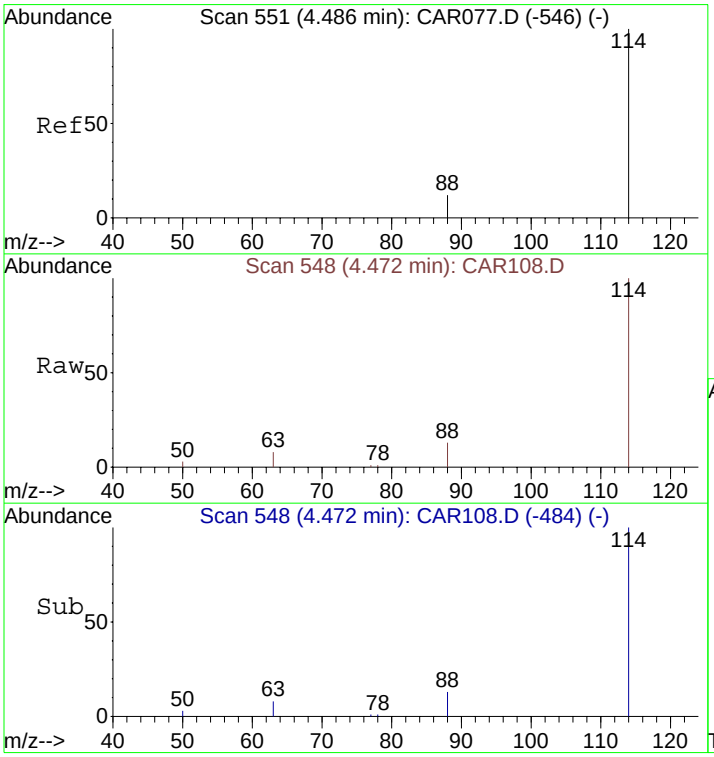


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 515
Delta R.T. 0.01 min
Lab File: CAR108.D
Acq: 17 Sep 2008 17:01

Tgt Ion: 49 Resp: 2125

Ion	Ratio	Lower	Upper
49	100		
130	82.4	65.1	97.7
93	31.8	33.8	50.6#

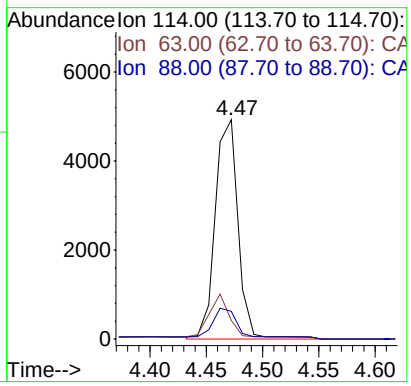


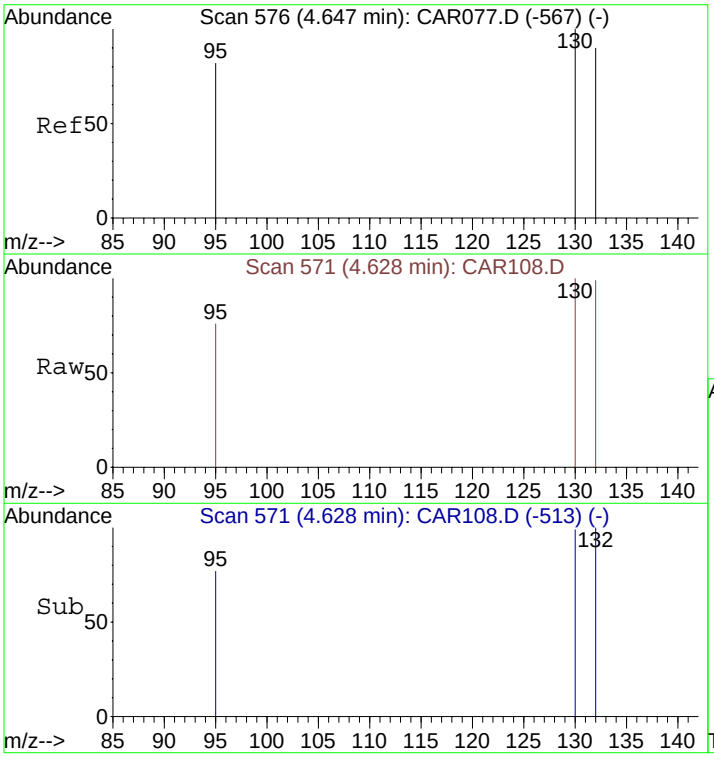


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 548
Delta R.T. 0.01 min
Lab File: CAR108.D
Acq: 17 Sep 2008 17:01

Tgt Ion:114 Resp: 6730

Ion	Ratio	Lower	Upper
114	100		
63	21.5	15.8	23.8
88	14.1	12.2	18.2

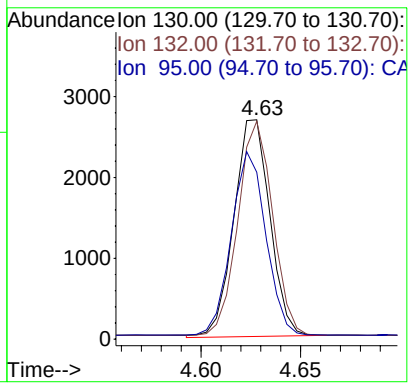


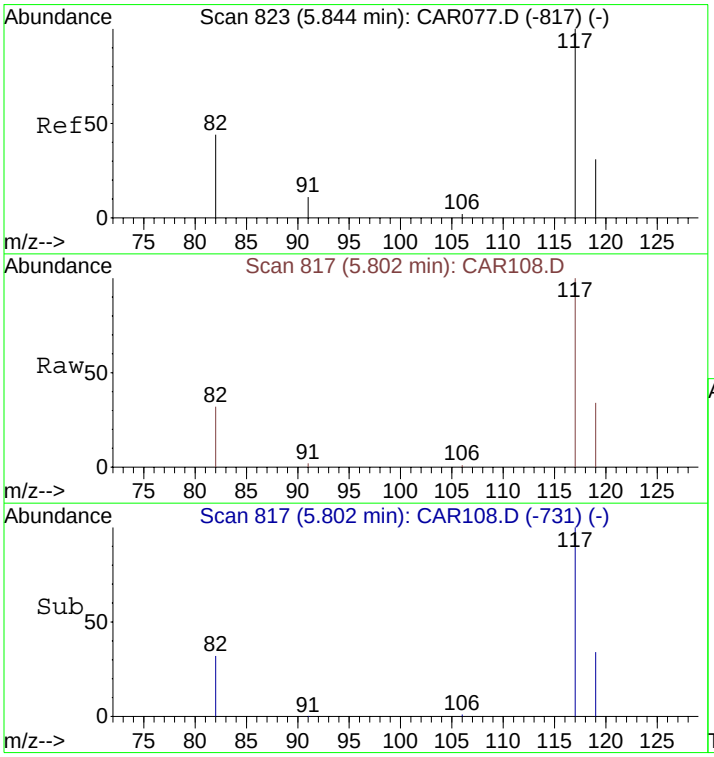


#11
Trichloroethene
Concen: 147.91 ppbv
RT: 4.63 min Scan# 571
Delta R.T. 0.00 min
Lab File: CAR108.D
Acq: 17 Sep 2008 17:01

Tgt Ion:130 Resp: 3395

Ion	Ratio	Lower	Upper
130	100		
132	94.9	73.8	110.6
95	83.3	72.5	108.7

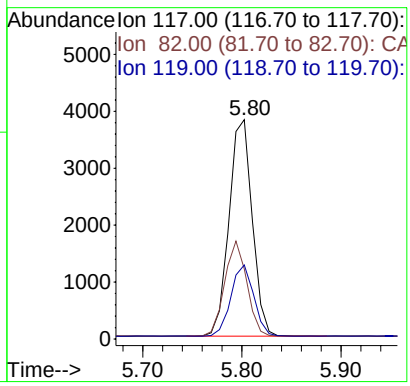


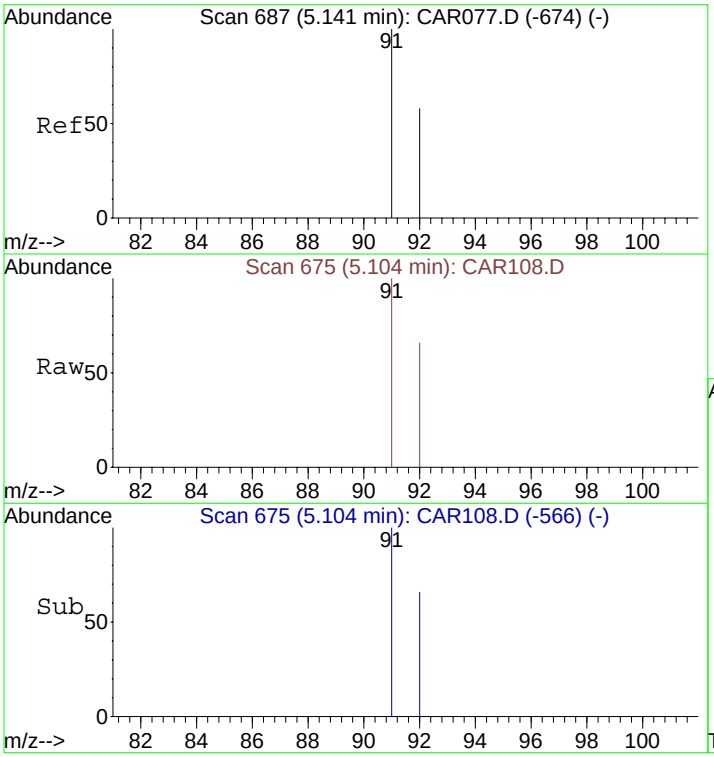


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.80 min Scan# 817
Delta R.T. 0.01 min
Lab File: CAR108.D
Acq: 17 Sep 2008 17:01

Tgt Ion:117 Resp: 6206

Ion	Ratio	Lower	Upper
117	100		
82	42.6	38.3	57.5
119	32.4	26.0	39.0

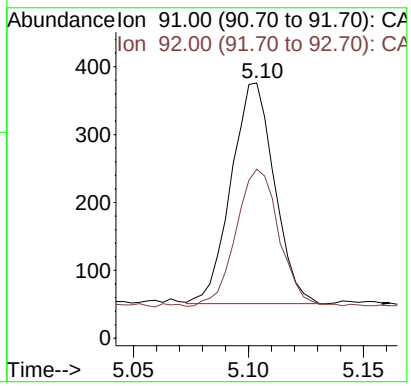




#13
Toluene
Concen: 9.30 ppbv
RT: 5.10 min Scan# 675
Delta R.T. 0.00 min
Lab File: CAR108.D
Acq: 17 Sep 2008 17:01

Tgt Ion: 91 Resp: 425

Ion	Ratio	Lower	Upper
91	100		
92	61.2	48.2	72.2



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR109.D Vial: 1
Acq On : 17 Sep 2008 17:27 Operator: dlm
Sample : 51438\LB1-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 17:37:01 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.15	49	1723	10.00 ppbv	0.01
9) 1,4-Difluorobenzene	4.49	114	5048	10.00 ppbv	0.02
12) Chlorobenzene-d5	5.84	117	4974	10.00 ppbv	0.04

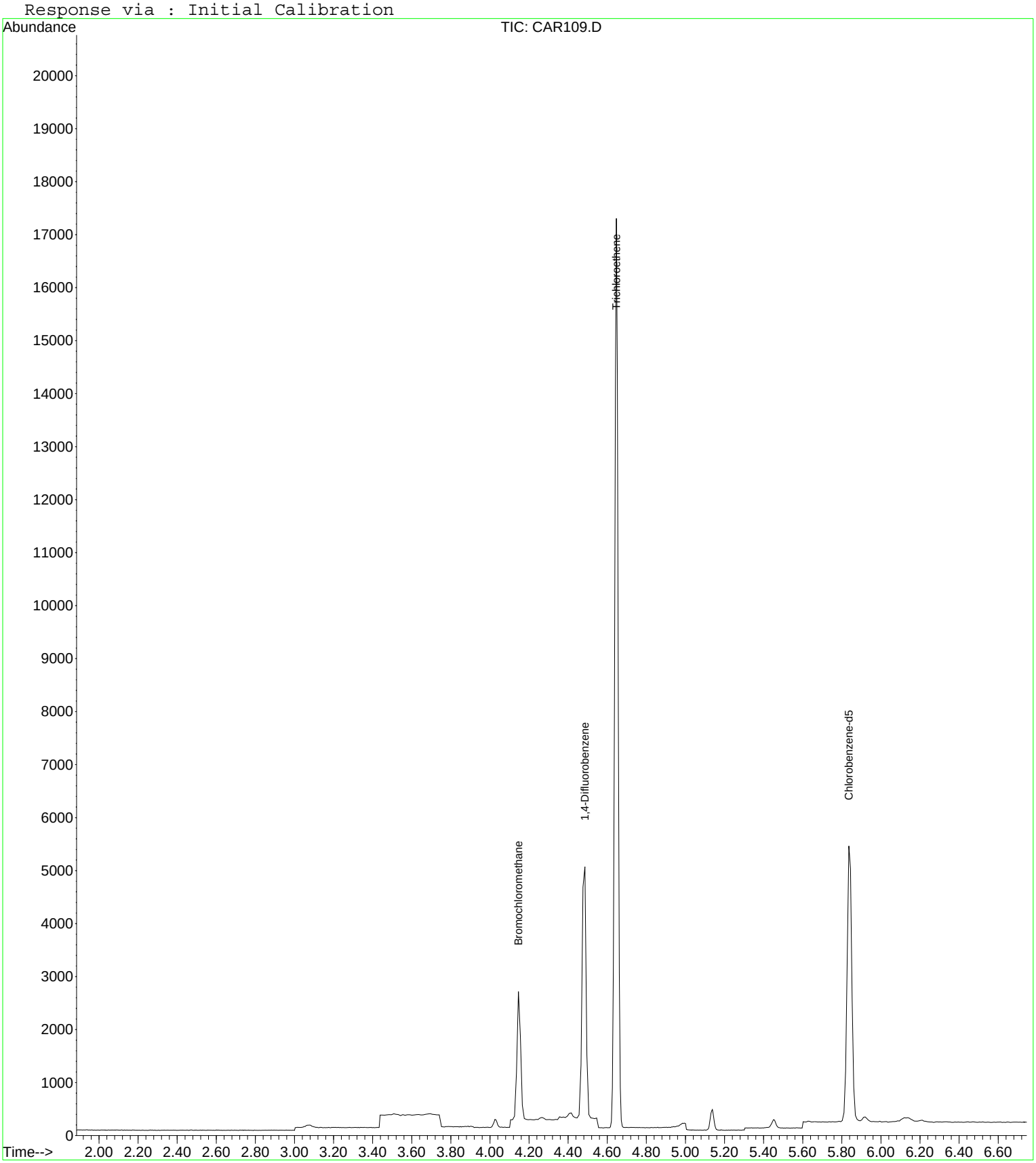
Target Compounds					Qvalue
7) cis-1,2-Dichloroethene	4.02	61	90	6.03 ppbv	98
11) Trichloroethene	4.65	130	7517	436.61 ppbv	93
13) Toluene	5.13	91	317	8.66 ppbv	99

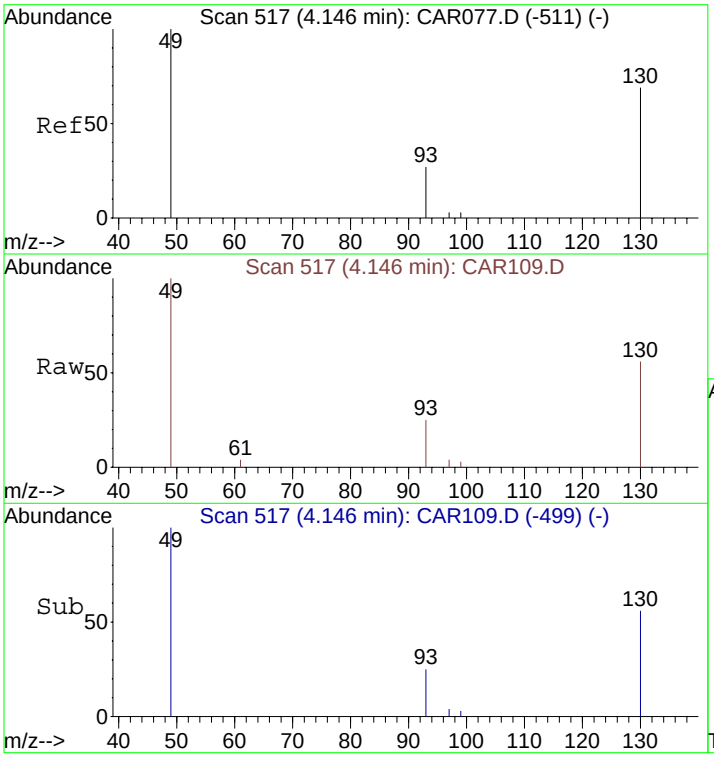
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR109.D Vial: 1
Acq On : 17 Sep 2008 17:27 Operator: dlm
Sample : 51438\LB1-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 17:43 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

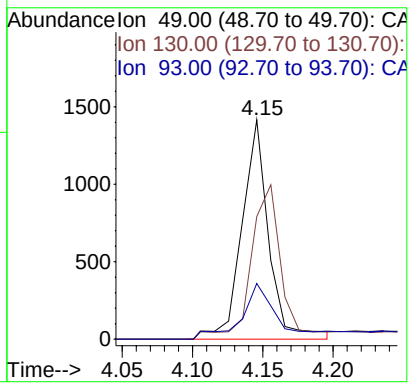


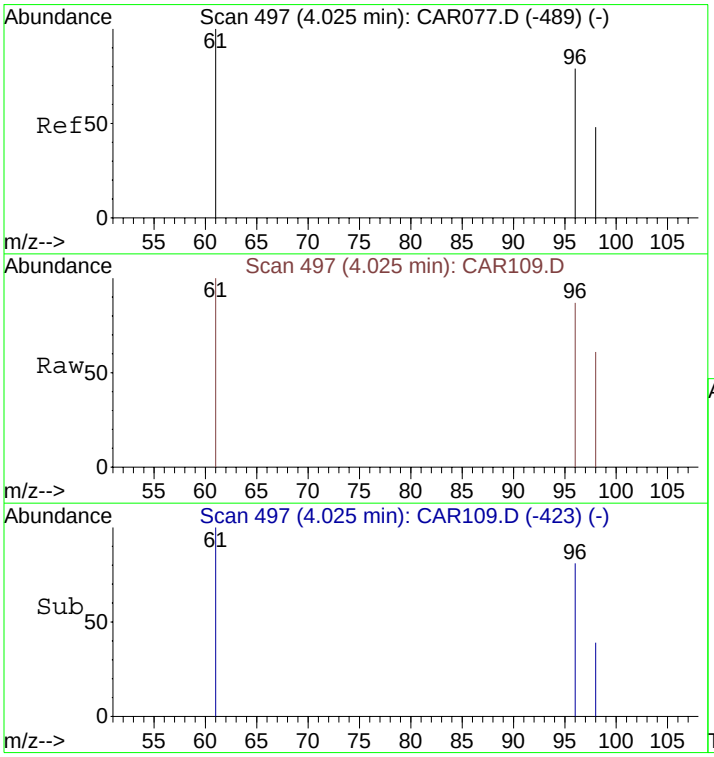


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.15 min Scan# 517
Delta R.T. 0.01 min
Lab File: CAR109.D
Acq: 17 Sep 2008 17:27

Tgt Ion: 49 Resp: 1723

Ion	Ratio	Lower	Upper
49	100		
130	78.8	65.1	97.7
93	32.2	33.8	50.6#

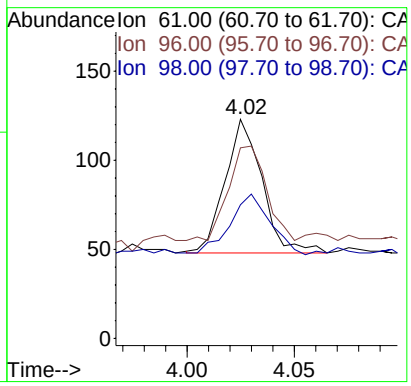


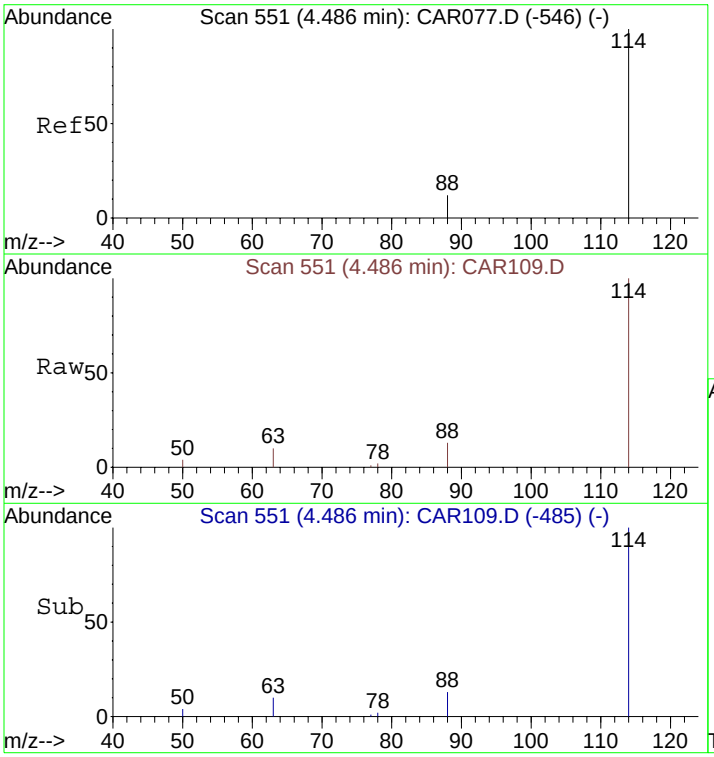


#7
cis-1,2-Dichloroethene
Concen: 6.03 ppbv
RT: 4.02 min Scan# 497
Delta R.T. 0.01 min
Lab File: CAR109.D
Acq: 17 Sep 2008 17:27

Tgt Ion: 61 Resp: 90

Ion	Ratio	Lower	Upper
61	100		
96	72.2	56.0	84.0
98	46.7	36.2	54.4

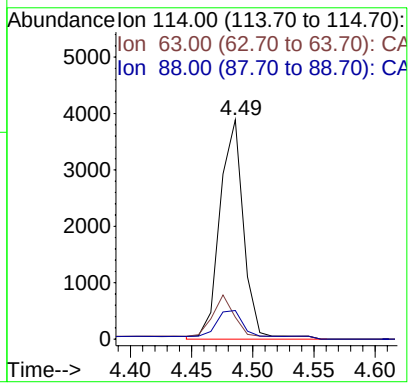


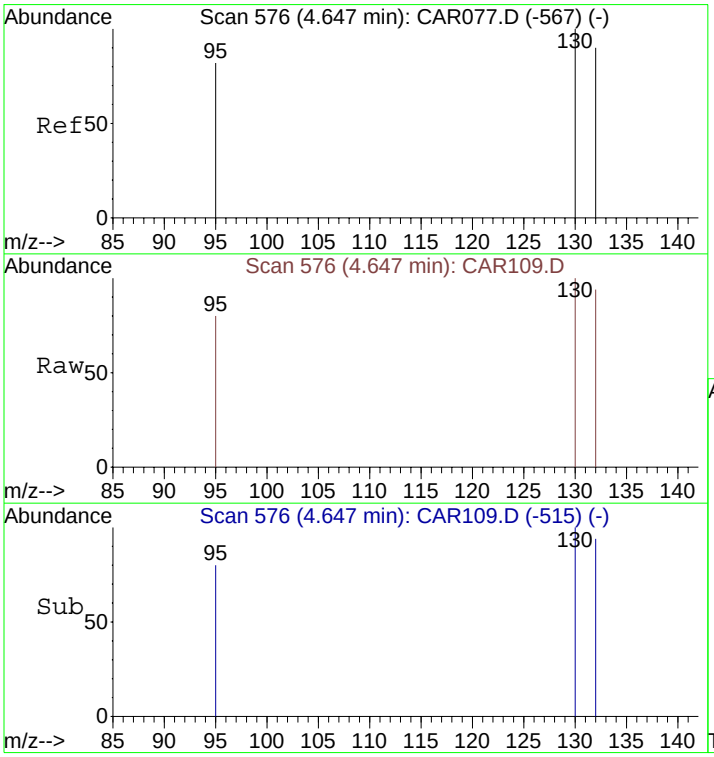


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.49 min Scan# 551
Delta R.T. 0.02 min
Lab File: CAR109.D
Acq: 17 Sep 2008 17:27

Tgt Ion:114 Resp: 5048

Ion	Ratio	Lower	Upper
114	100		
63	22.2	15.8	23.8
88	17.9	12.2	18.2

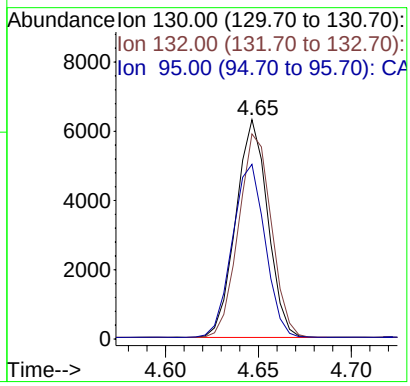


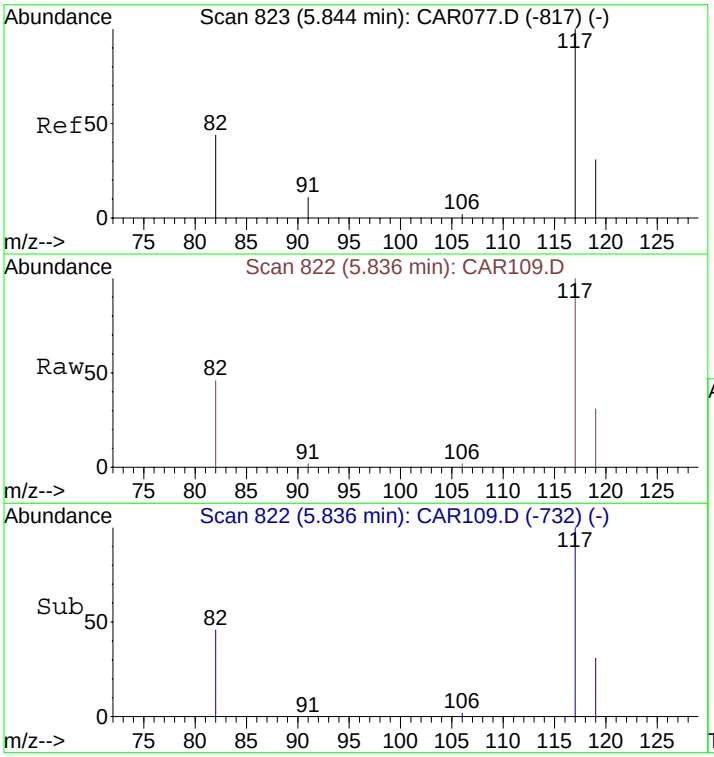


#11
Trichloroethene
Concen: 436.61 ppbv
RT: 4.65 min Scan# 576
Delta R.T. 0.02 min
Lab File: CAR109.D
Acq: 17 Sep 2008 17:27

Tgt Ion:130 Resp: 7517

Ion	Ratio	Lower	Upper
130	100		
132	95.9	73.8	110.6
95	81.7	72.5	108.7

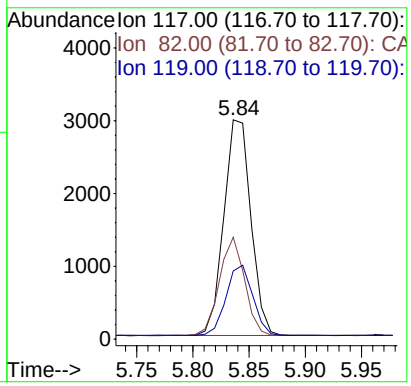


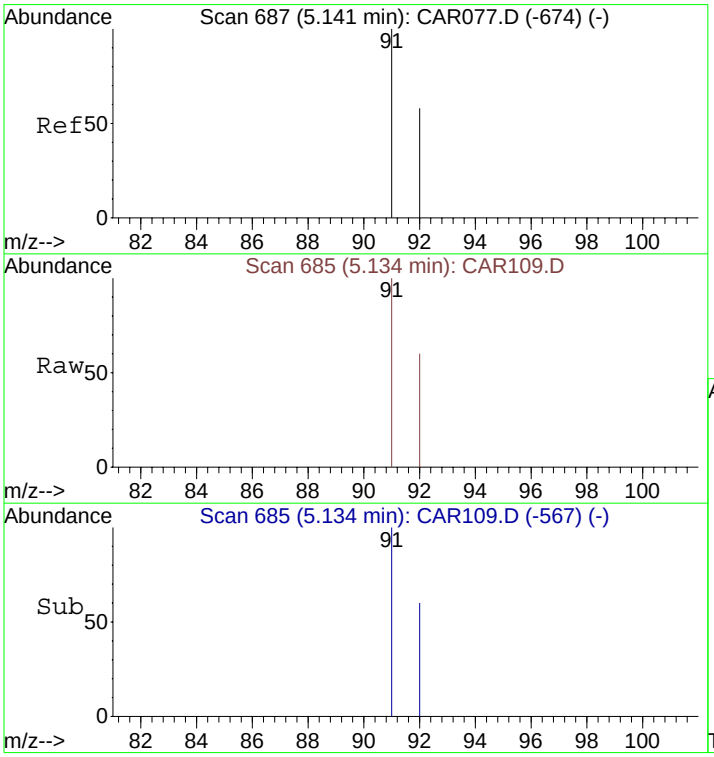


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.84 min Scan# 822
Delta R.T. 0.04 min
Lab File: CAR109.D
Acq: 17 Sep 2008 17:27

Tgt Ion:117 Resp: 4974

Ion	Ratio	Lower	Upper
117	100		
82	42.3	38.3	57.5
119	32.0	26.0	39.0

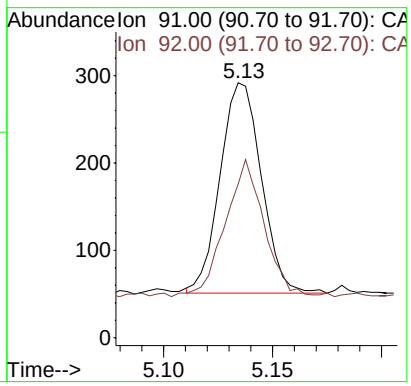




#13
Toluene
Concen: 8.66 ppbv
RT: 5.13 min Scan# 685
Delta R.T. 0.03 min
Lab File: CAR109.D
Acq: 17 Sep 2008 17:27

Tgt Ion: 91 Resp: 317

Ion	Ratio	Lower	Upper
91	100		
92	60.9	48.2	72.2



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR110.D Vial: 1
Acq On : 17 Sep 2008 17:38 Operator: dlm
Sample : 51440\LC2-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 17:45:10 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1677	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	5171	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.82	117	4851	10.00 ppbv	0.03

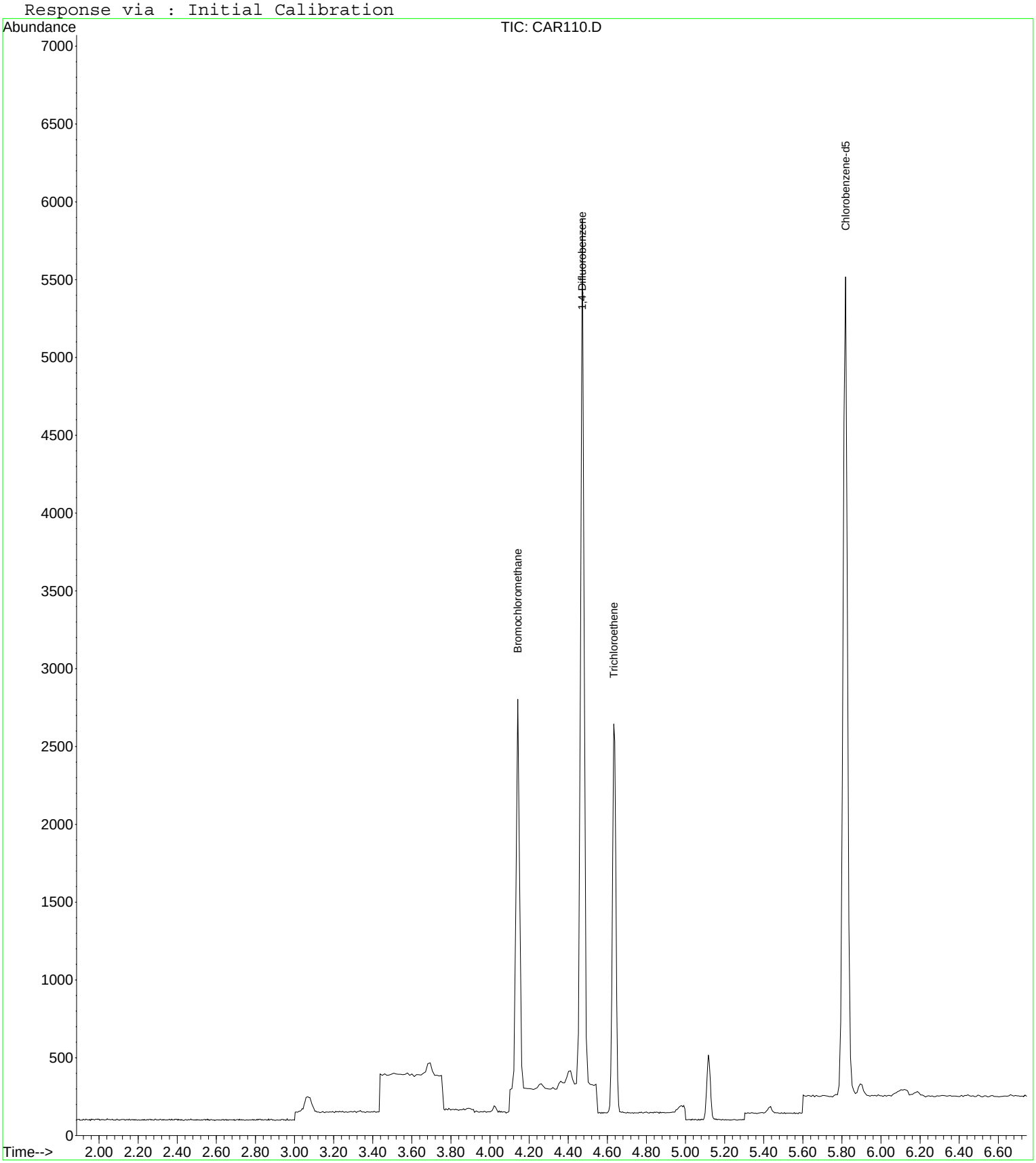
Target Compounds					Qvalue
11) Trichloroethene	4.63	130	1127	63.90 ppbv	92
13) Toluene	5.12	91	328	9.19 ppbv	94

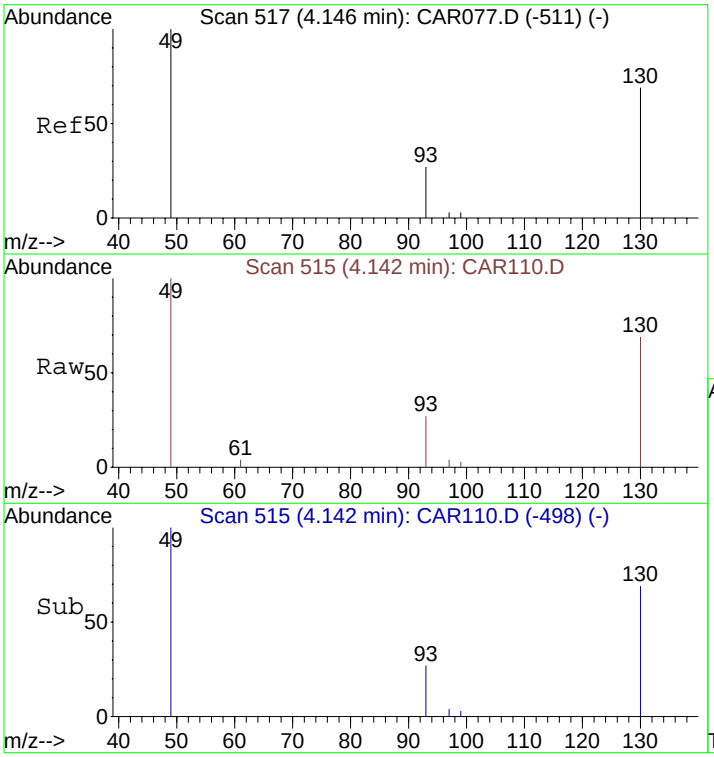
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR110.D Vial: 1
Acq On : 17 Sep 2008 17:38 Operator: dlm
Sample : 51440\LC2-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 17:47 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

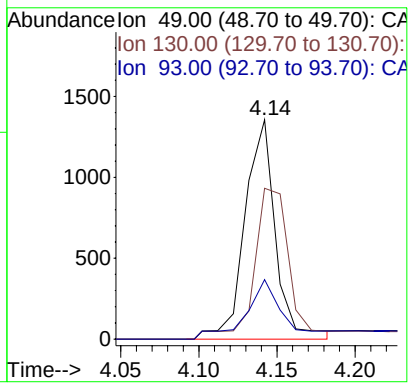


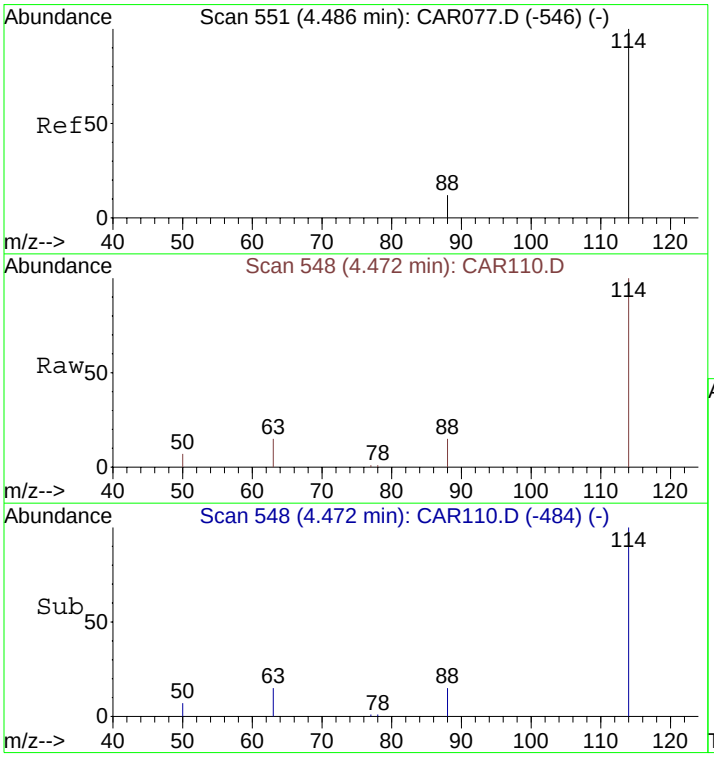


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 515
Delta R.T. 0.01 min
Lab File: CAR110.D
Acq: 17 Sep 2008 17:38

Tgt Ion: 49 Resp: 1677

Ion	Ratio	Lower	Upper
49	100		
130	78.5	65.1	97.7
93	33.4	33.8	50.6#

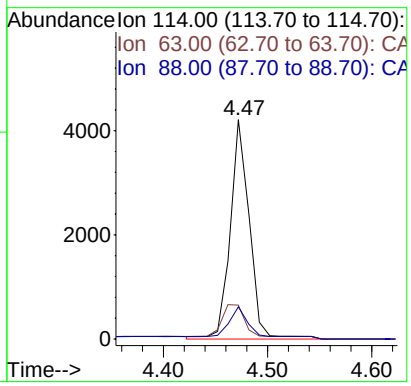


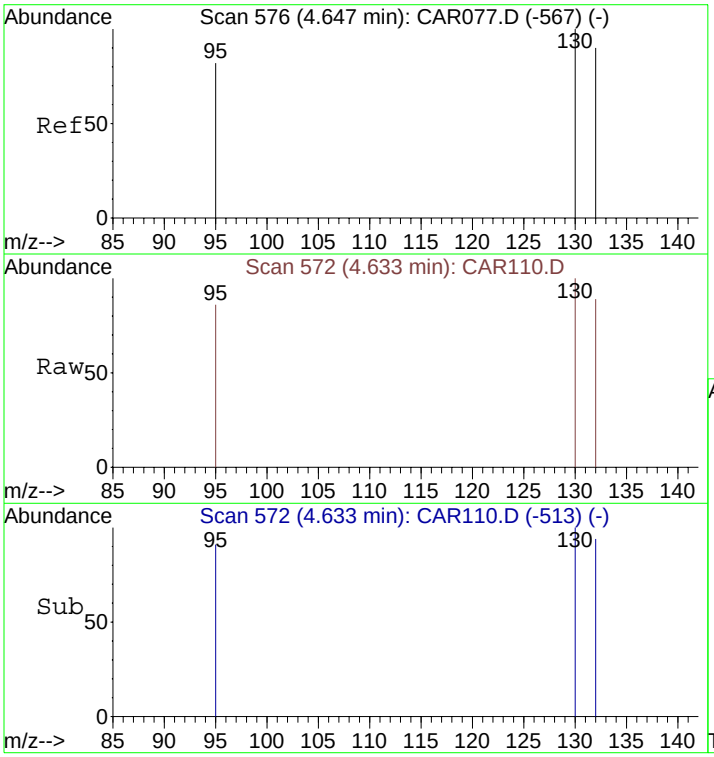


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 548
Delta R.T. 0.01 min
Lab File: CAR110.D
Acq: 17 Sep 2008 17:38

Tgt Ion:114 Resp: 5171

Ion	Ratio	Lower	Upper
114	100		
63	18.5	15.8	23.8
88	17.6	12.2	18.2

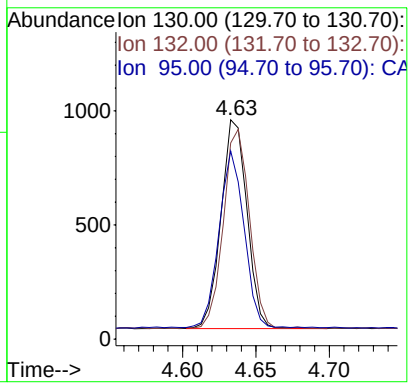


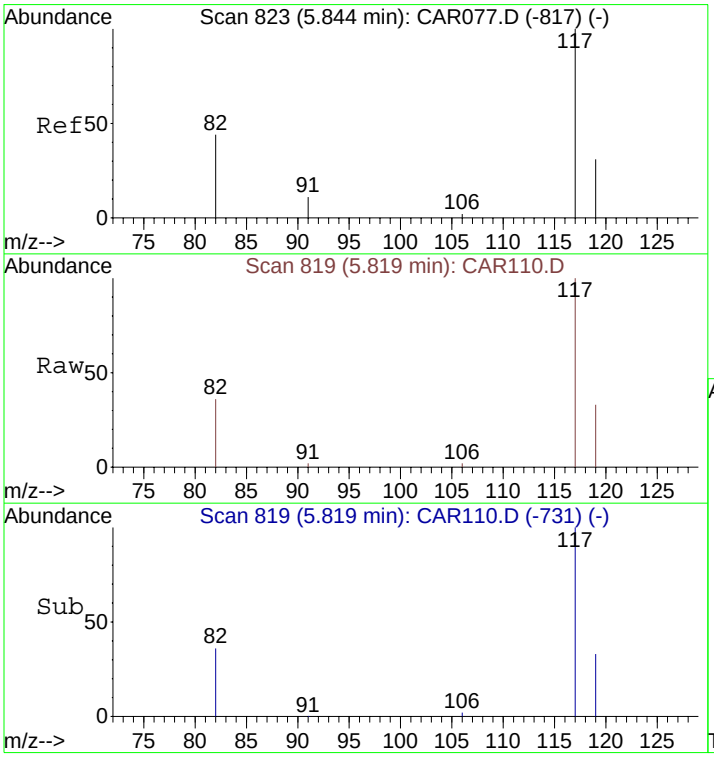


#11
Trichloroethene
Concen: 63.90 ppbv
RT: 4.63 min Scan# 572
Delta R.T. 0.01 min
Lab File: CAR110.D
Acq: 17 Sep 2008 17:38

Tgt Ion:130 Resp: 1127

Ion	Ratio	Lower	Upper
130	100		
132	98.6	73.8	110.6
95	81.5	72.5	108.7

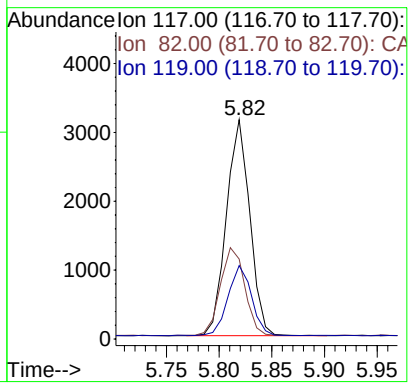


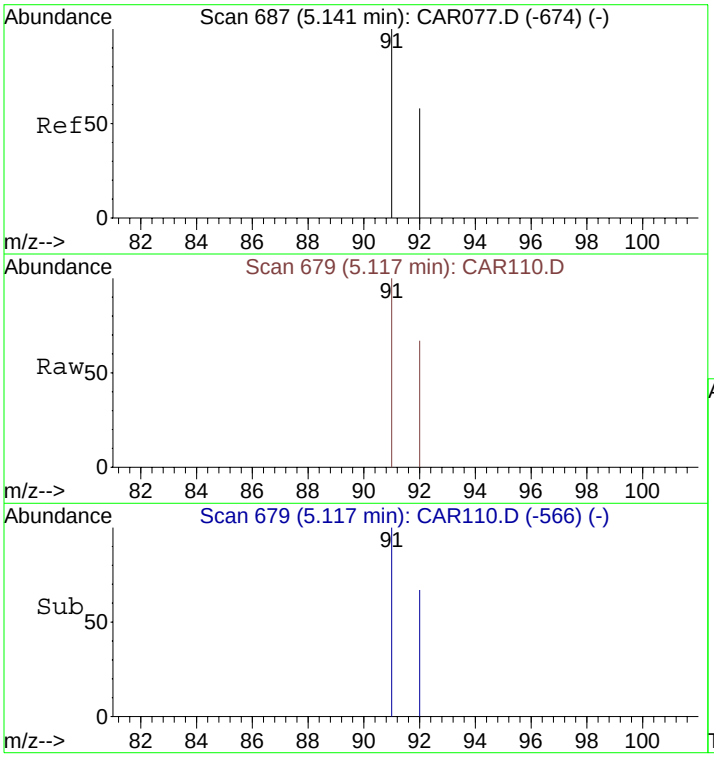


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.82 min Scan# 819
Delta R.T. 0.03 min
Lab File: CAR110.D
Acq: 17 Sep 2008 17:38

Tgt Ion:117 Resp: 4851

Ion	Ratio	Lower	Upper
117	100		
82	42.7	38.3	57.5
119	32.3	26.0	39.0

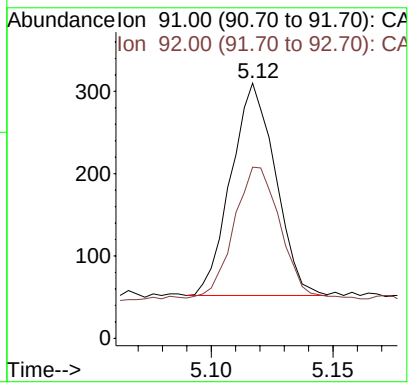




#13
Toluene
Concen: 9.19 ppbv
RT: 5.12 min Scan# 679
Delta R.T. 0.01 min
Lab File: CAR110.D
Acq: 17 Sep 2008 17:38

Tgt Ion: 91 Resp: 328

Ion	Ratio	Lower	Upper
91	100		
92	64.6	48.2	72.2



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR111.D Vial: 1
Acq On : 17 Sep 2008 17:49 Operator: dlm
Sample : 51441\LC3-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 17:56:28 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1675	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.47	114	5065	10.00 ppbv	0.00
12) Chlorobenzene-d5	5.80	117	4961	10.00 ppbv	0.00

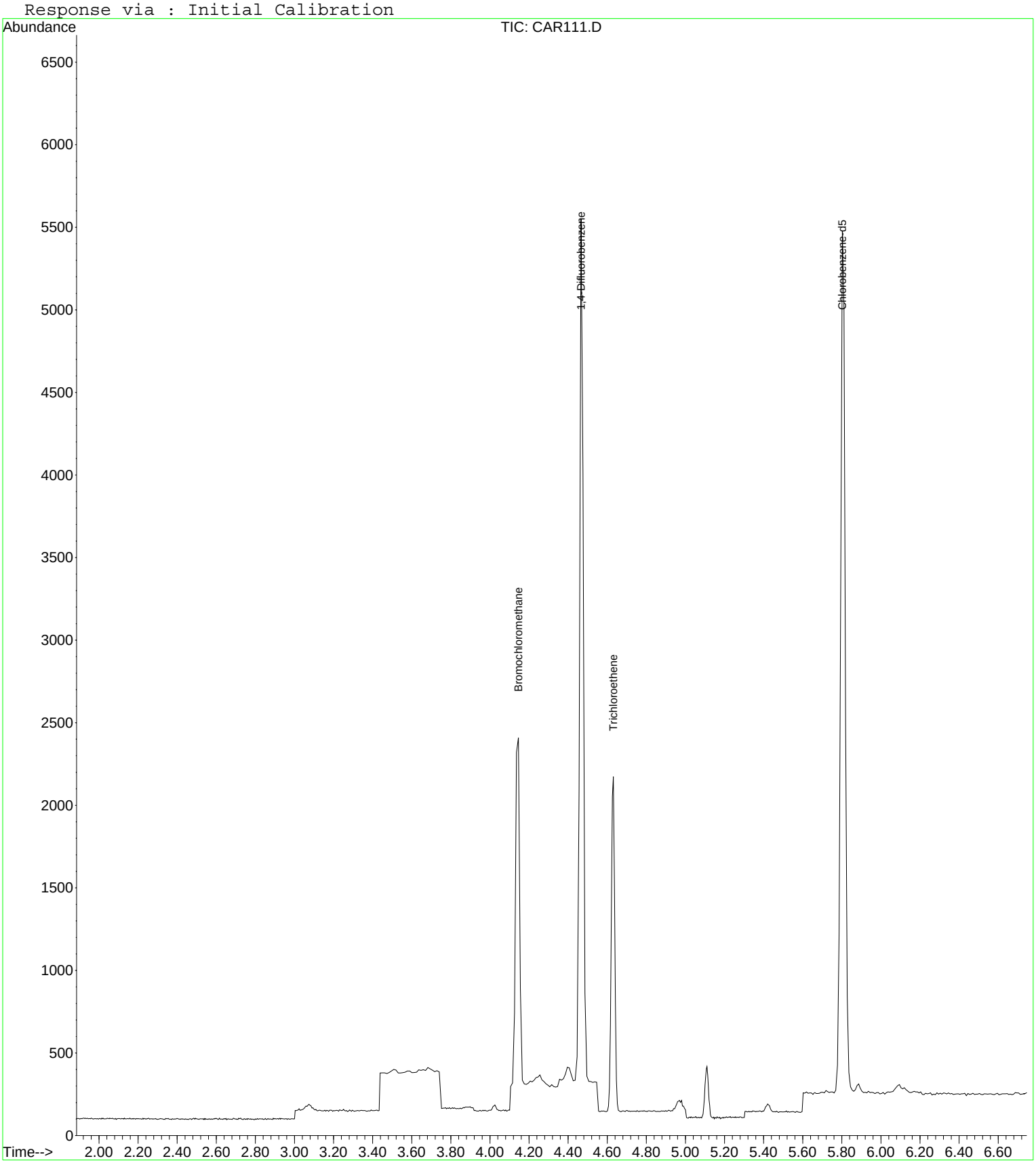
Target Compounds					Qvalue
11) Trichloroethene	4.63	130	951	55.05 ppbv	96
13) Toluene	5.11	91	265	7.26 ppbv	95

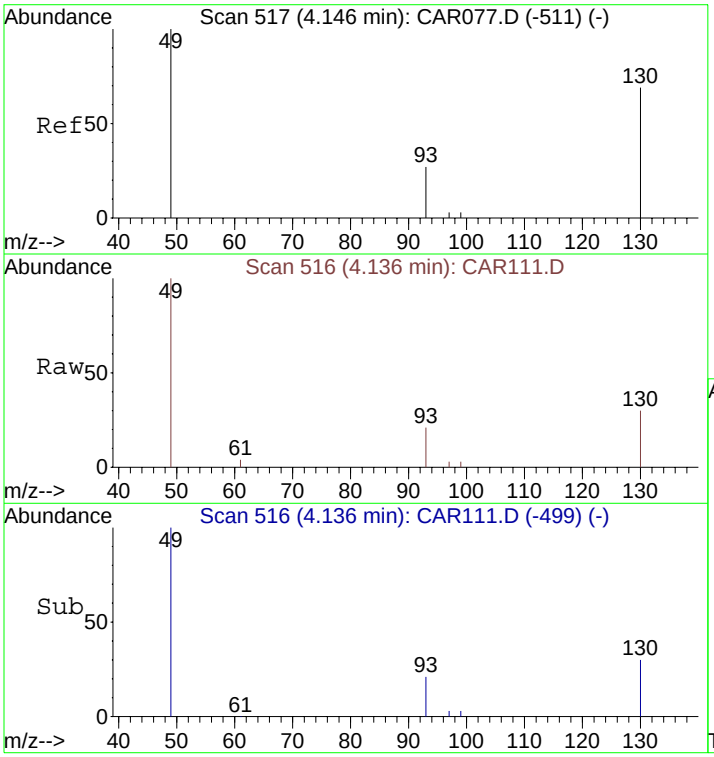
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR111.D Vial: 1
Acq On : 17 Sep 2008 17:49 Operator: dlm
Sample : 51441\LC3-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 18:11 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

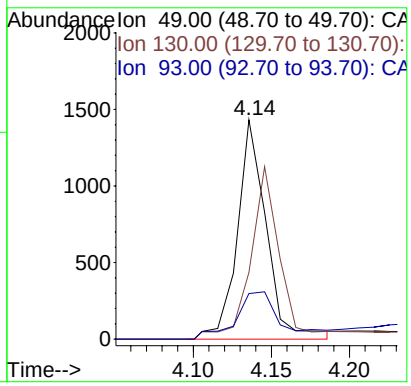


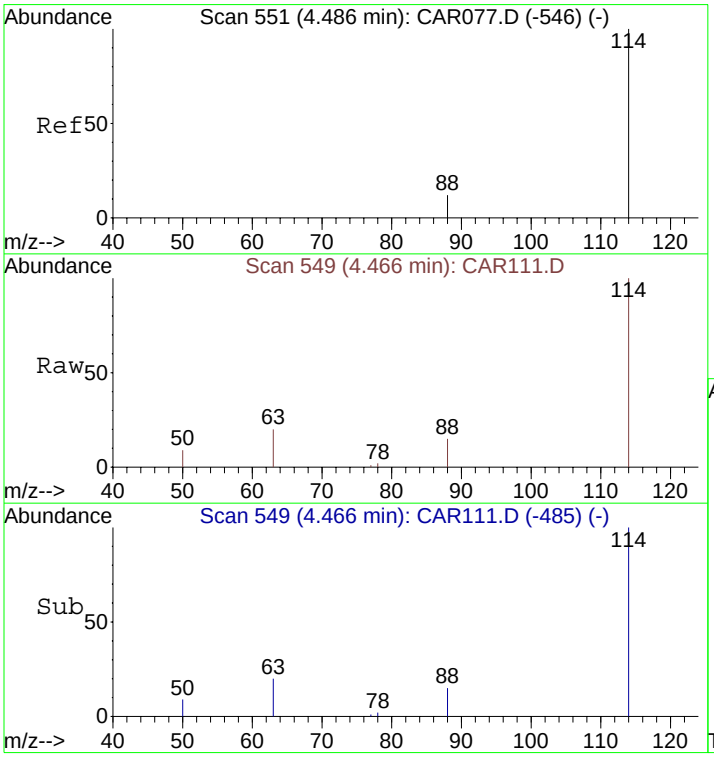


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR111.D
Acq: 17 Sep 2008 17:49

Tgt Ion: 49 Resp: 1675

Ion	Ratio	Lower	Upper
49	100		
130	80.8	65.1	97.7
93	34.3	33.8	50.6

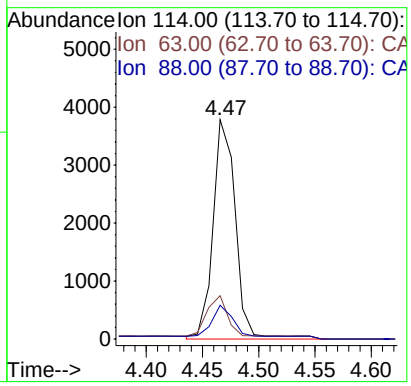


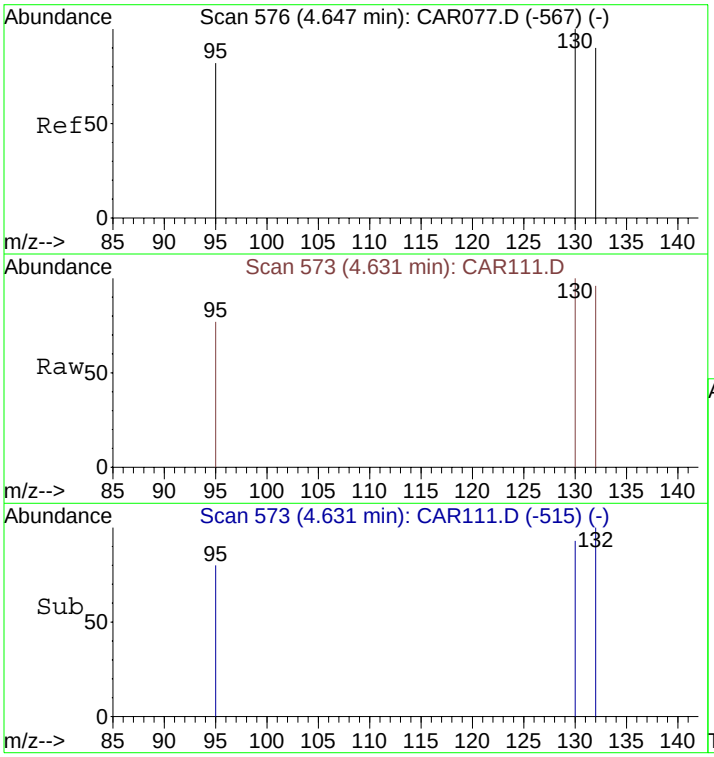


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.47 min Scan# 549
Delta R.T. 0.00 min
Lab File: CAR111.D
Acq: 17 Sep 2008 17:49

Tgt Ion:114 Resp: 5065

Ion	Ratio	Lower	Upper
114	100		
63	23.6	15.8	23.8
88	13.2	12.2	18.2

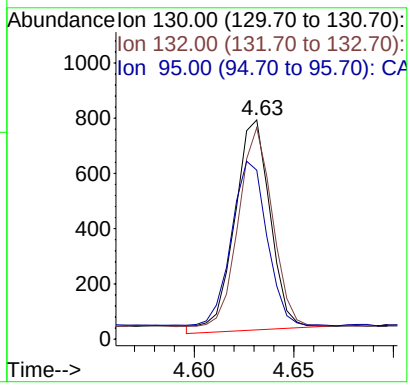


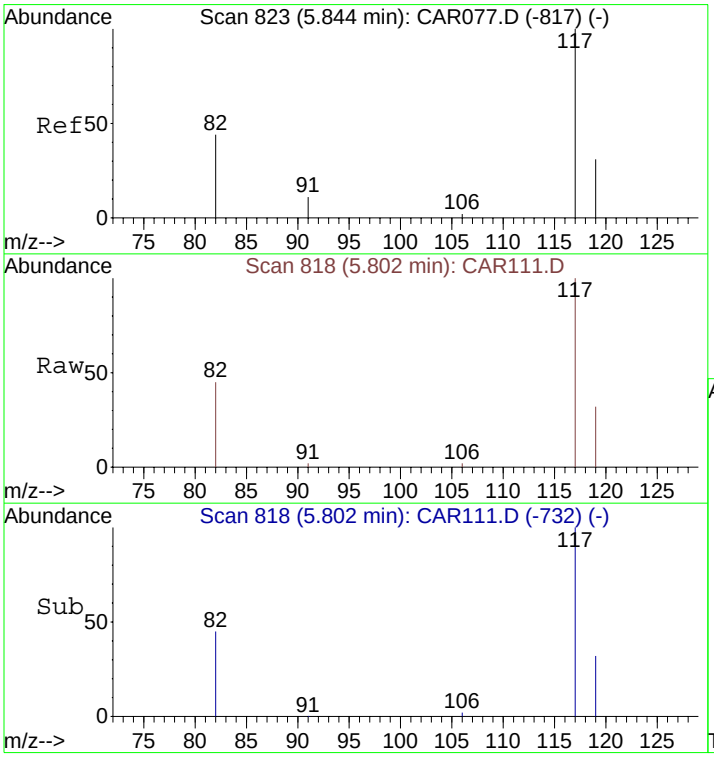


#11
Trichloroethene
Concen: 55.05 ppbv
RT: 4.63 min Scan# 573
Delta R.T. 0.01 min
Lab File: CAR111.D
Acq: 17 Sep 2008 17:49

Tgt Ion:130 Resp: 951

Ion	Ratio	Lower	Upper
130	100		
132	93.9	73.8	110.6
95	85.0	72.5	108.7

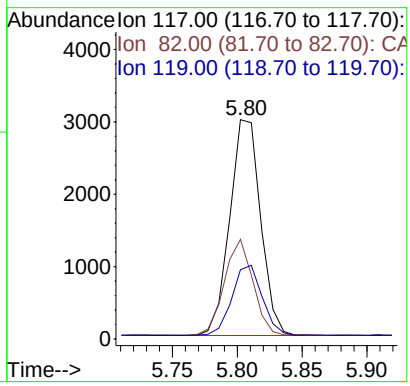


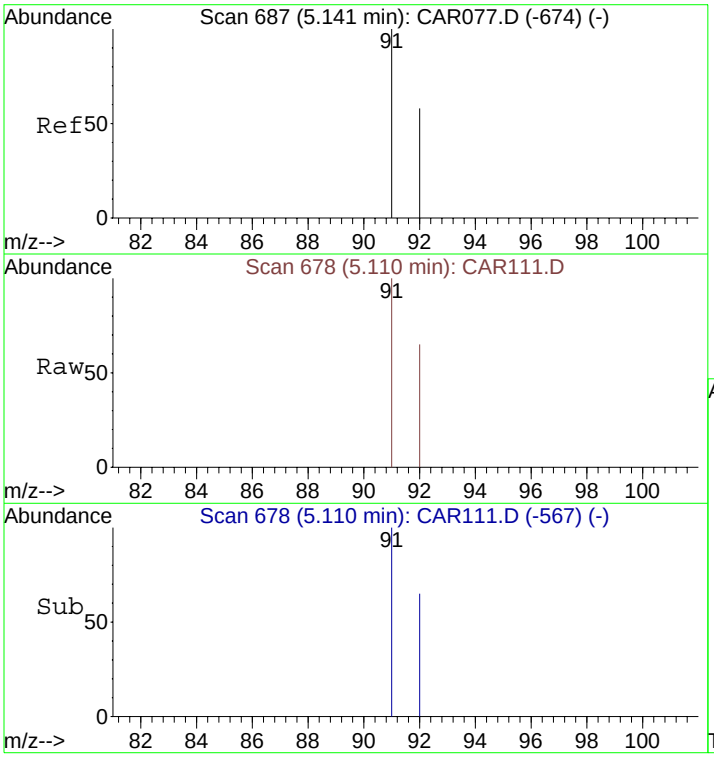


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.80 min Scan# 818
Delta R.T. 0.01 min
Lab File: CAR111.D
Acq: 17 Sep 2008 17:49

Tgt Ion:117 Resp: 4961

Ion	Ratio	Lower	Upper
117	100		
82	41.3	38.3	57.5
119	31.9	26.0	39.0

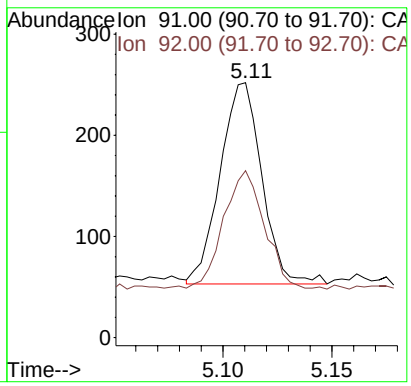




#13
Toluene
Concen: 7.26 ppbv
RT: 5.11 min Scan# 678
Delta R.T. 0.01 min
Lab File: CAR111.D
Acq: 17 Sep 2008 17:49

Tgt Ion: 91 Resp: 265

Ion	Ratio	Lower	Upper
91	100		
92	56.2	48.2	72.2



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR112.D Vial: 1
Acq On : 17 Sep 2008 18:00 Operator: dlm
Sample : 51442\LC4-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 18:07:35 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1726	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	5107	10.00 ppbv	0.01
12) Chlorobenzene-d5	5.82	117	4877	10.00 ppbv	0.03

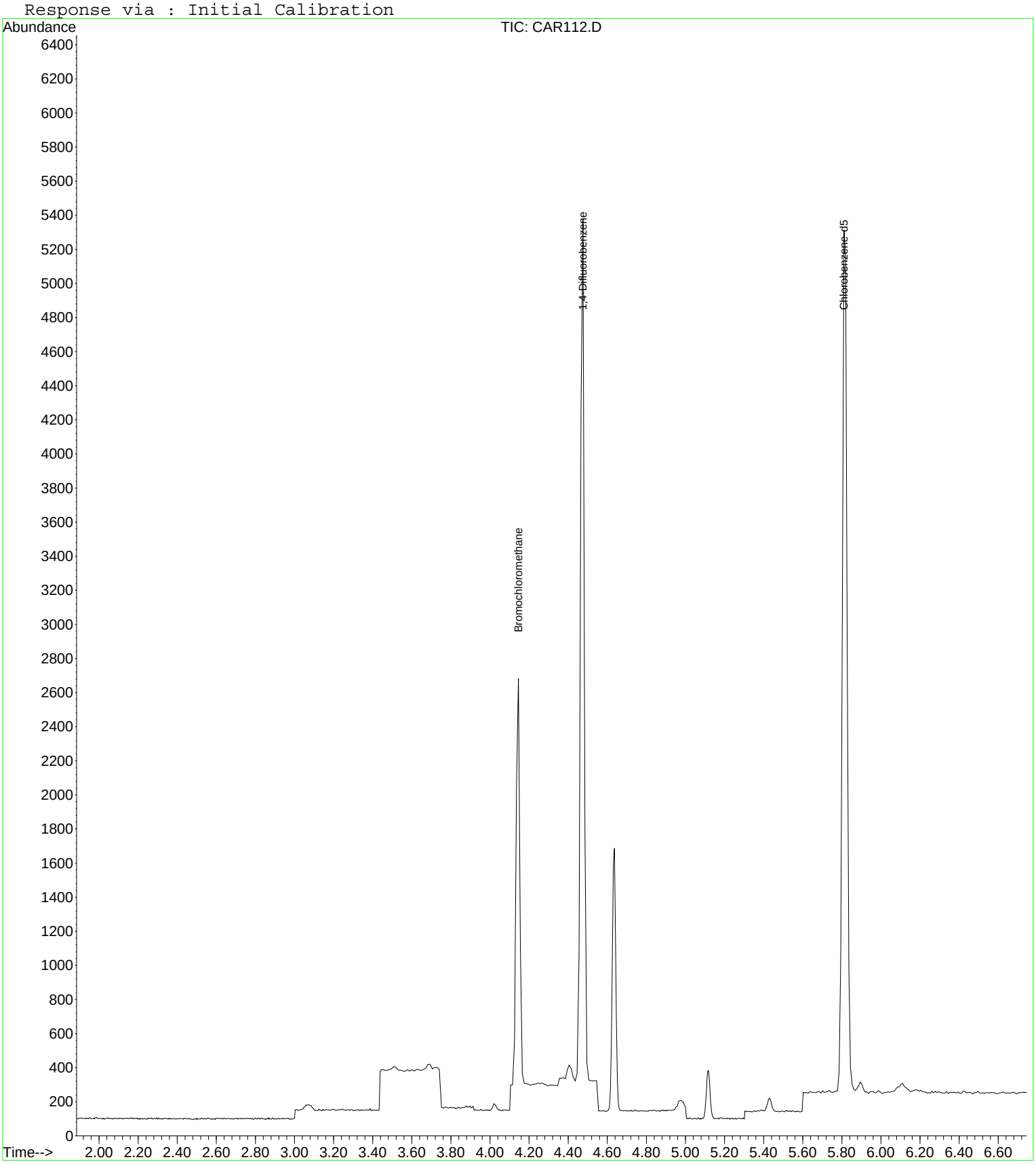
Target Compounds					Qvalue
11) Trichloroethene	4.64	130	753	43.23 ppbv	97
13) Toluene	5.11	91	238	6.63 ppbv	99

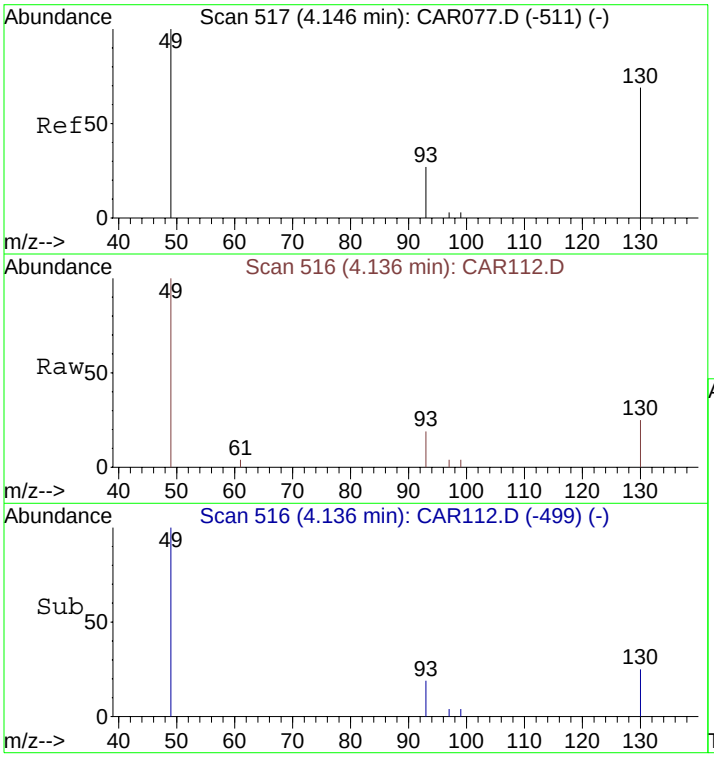
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR112.D Vial: 1
Acq On : 17 Sep 2008 18:00 Operator: dlm
Sample : 51442\LC4-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 18:09 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

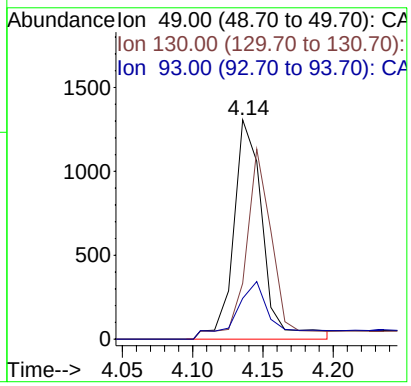


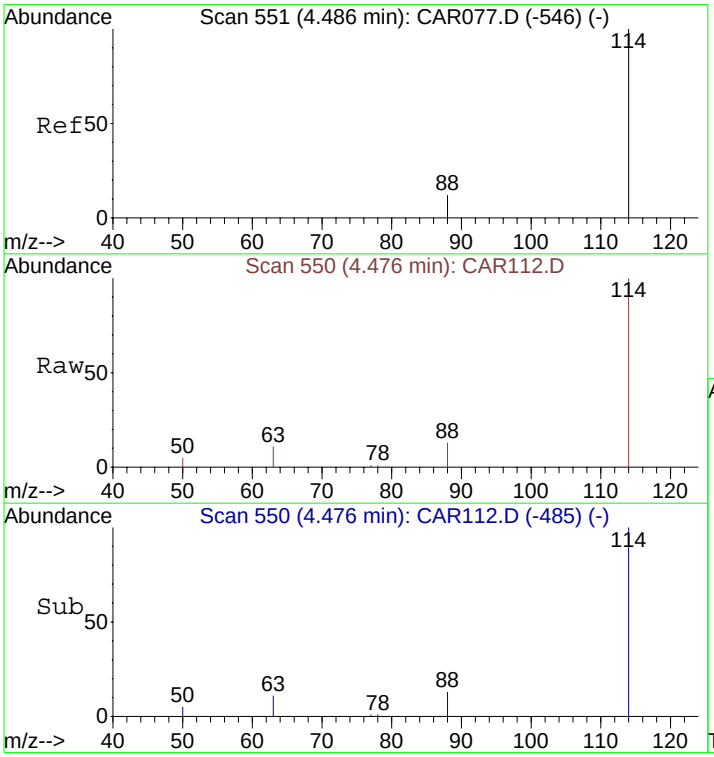


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR112.D
Acq: 17 Sep 2008 18:00

Tgt Ion: 49 Resp: 1726

Ion	Ratio	Lower	Upper
49	100		
130	79.7	65.1	97.7
93	34.4	33.8	50.6

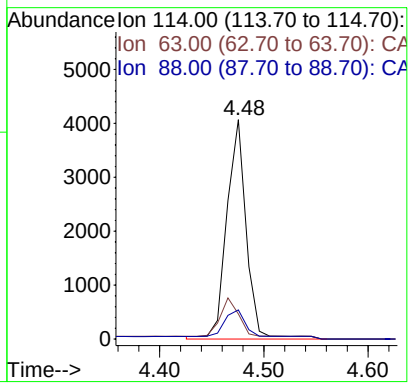


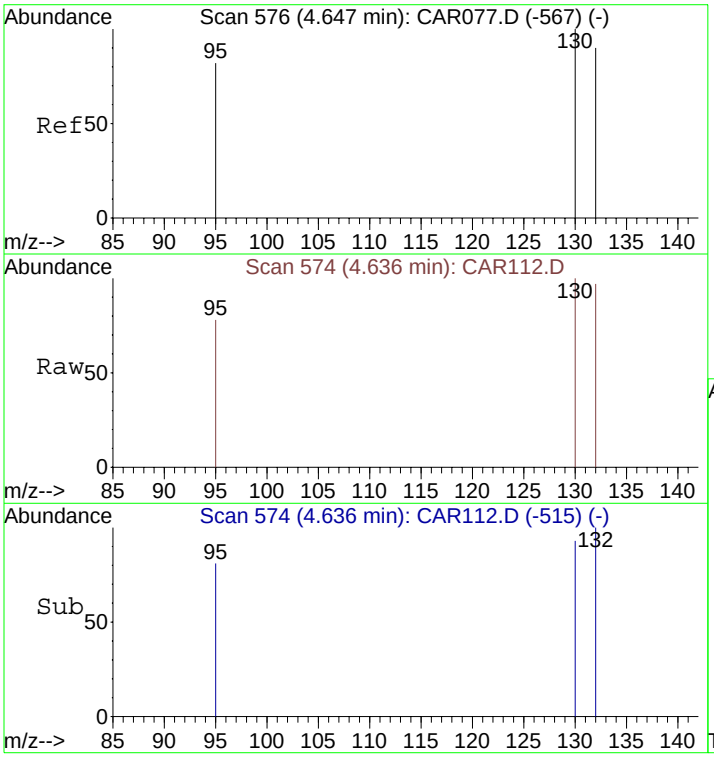


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR112.D
Acq: 17 Sep 2008 18:00

Tgt Ion:114 Resp: 5107

Ion	Ratio	Lower	Upper
114	100		
63	28.3	15.8	23.8#
88	14.0	12.2	18.2

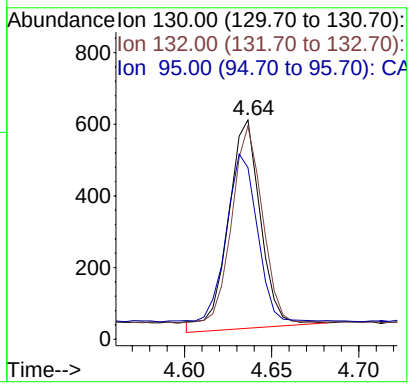


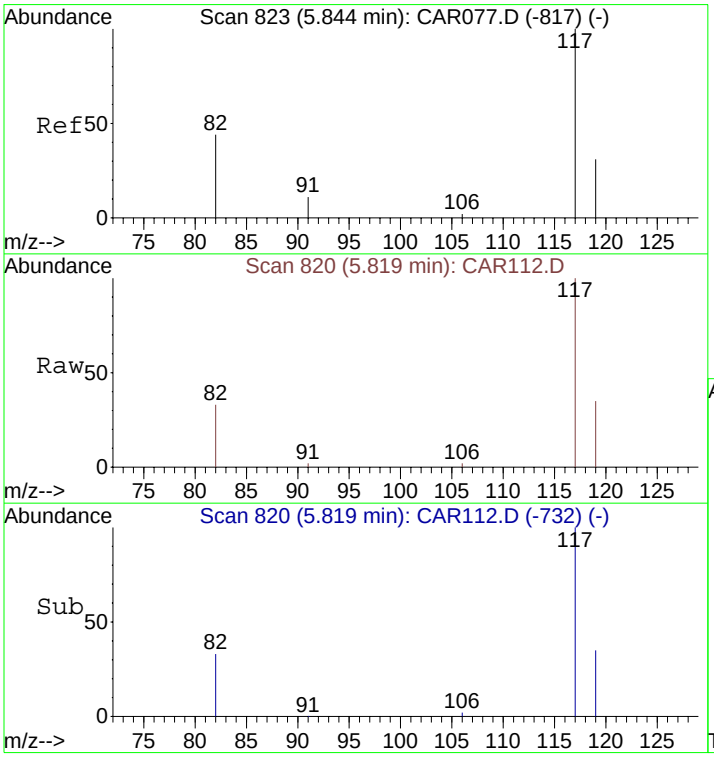


#11
Trichloroethene
Concen: 43.23 ppbv
RT: 4.64 min Scan# 574
Delta R.T. 0.01 min
Lab File: CAR112.D
Acq: 17 Sep 2008 18:00

Tgt Ion:130 Resp: 753

Ion	Ratio	Lower	Upper
130	100		
132	94.7	73.8	110.6
95	88.0	72.5	108.7

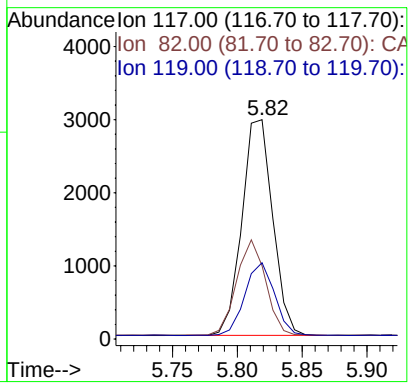


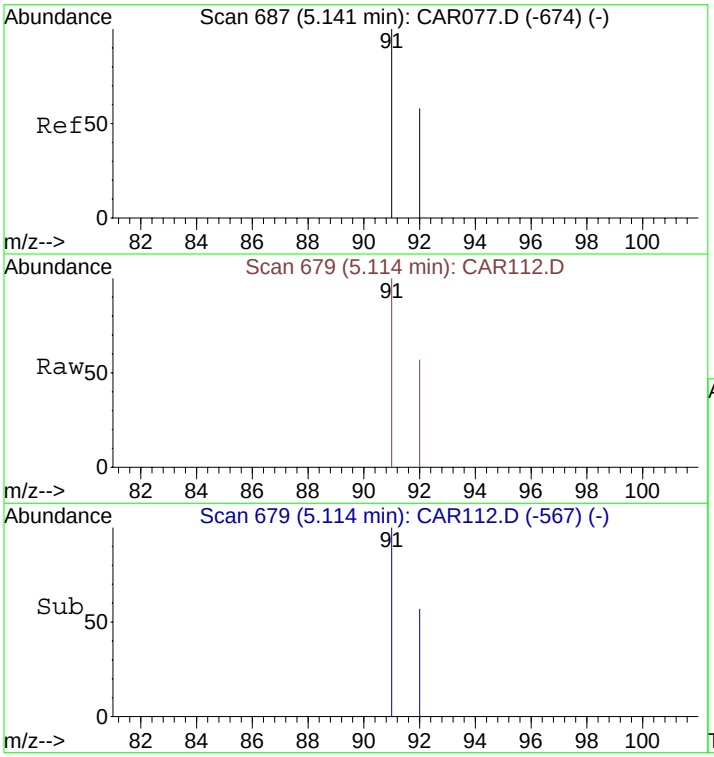


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.82 min Scan# 820
Delta R.T. 0.03 min
Lab File: CAR112.D
Acq: 17 Sep 2008 18:00

Tgt Ion:117 Resp: 4877

Ion	Ratio	Lower	Upper
117	100		
82	42.1	38.3	57.5
119	32.7	26.0	39.0

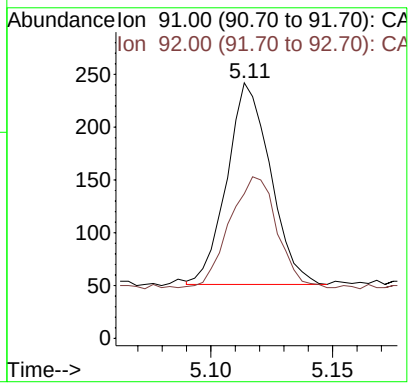




#13
Toluene
Concen: 6.63 ppbv
RT: 5.11 min Scan# 679
Delta R.T. 0.01 min
Lab File: CAR112.D
Acq: 17 Sep 2008 18:00

Tgt Ion: 91 Resp: 238

Ion	Ratio	Lower	Upper
91	100		
92	59.7	48.2	72.2



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR113.D Vial: 1
Acq On : 17 Sep 2008 18:11 Operator: dlm
Sample : 51429\C2-SG Rep. Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 18:20:39 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.15	49	1644	10.00 ppbv	0.01
9) 1,4-Difluorobenzene	4.48	114	4959	10.00 ppbv	0.01
12) Chlorobenzene-d5	5.83	117	4879	10.00 ppbv	0.03

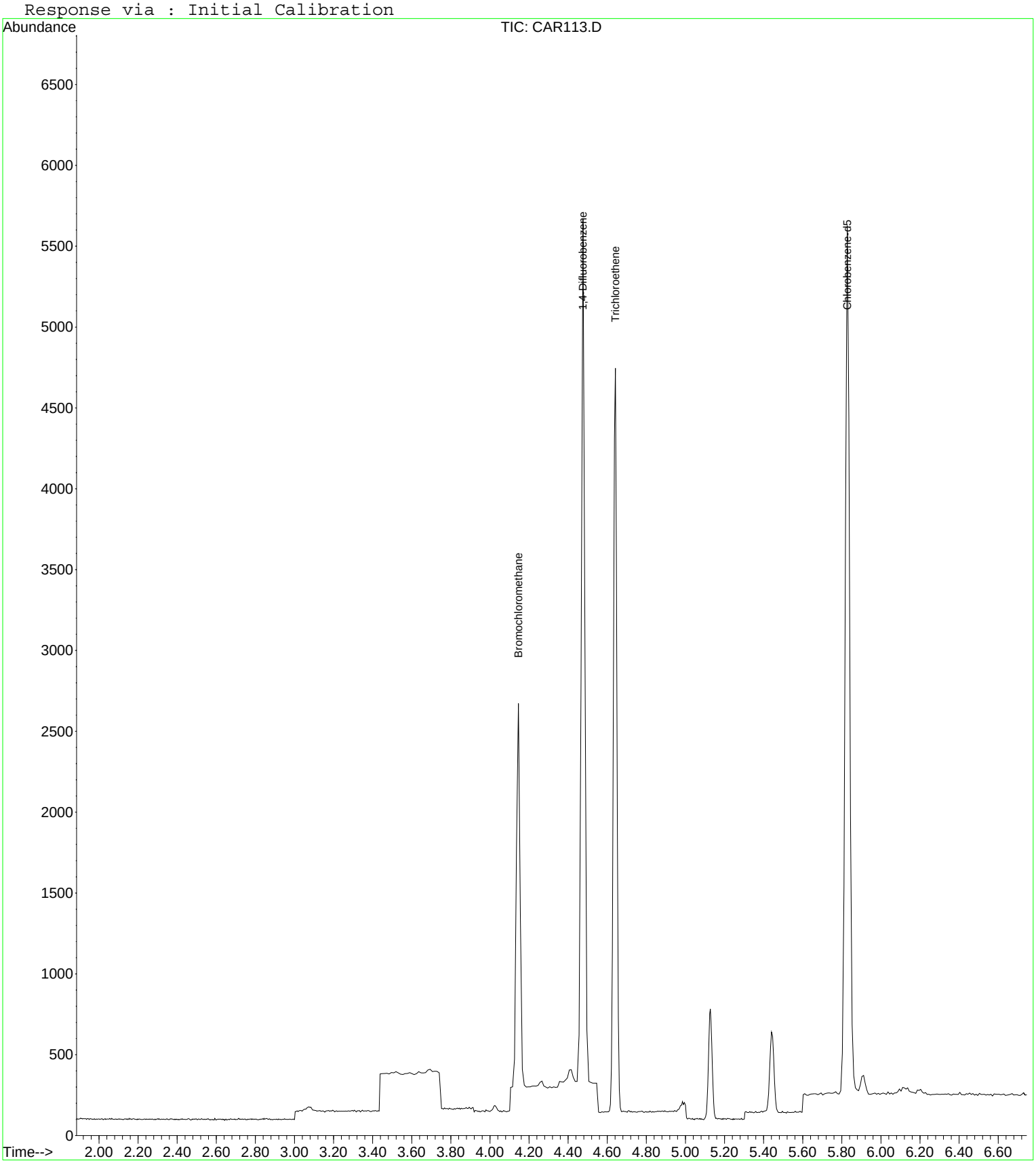
Target Compounds					Qvalue
11) Trichloroethene	4.64	130	2087	123.39 ppbv	93
13) Toluene	5.12	91	553	15.40 ppbv	100
14) Tetrachloroethene	5.44	166	297	14.41 ppbv	97

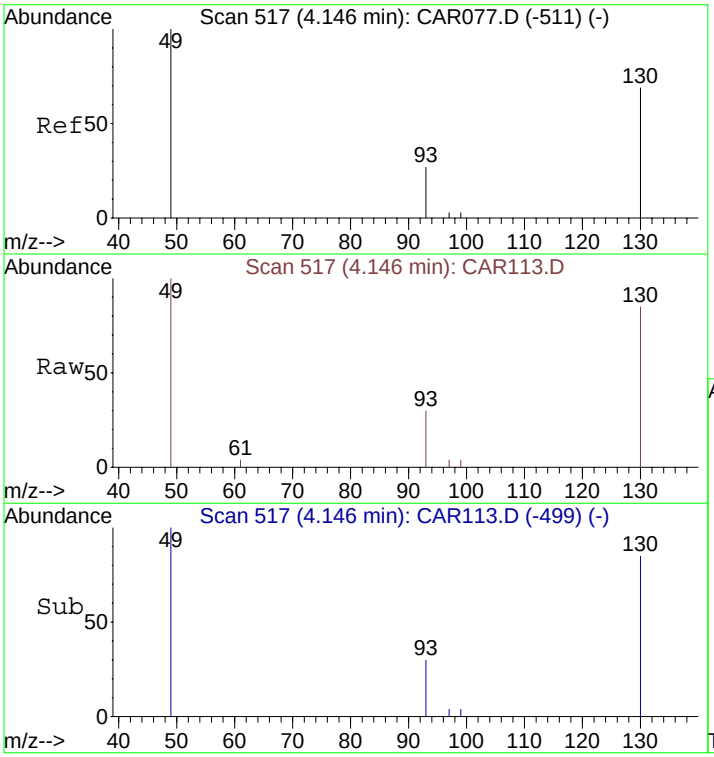
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR113.D Vial: 1
Acq On : 17 Sep 2008 18:11 Operator: dlm
Sample : 51429\C2-SG Rep. Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 30 9:55 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

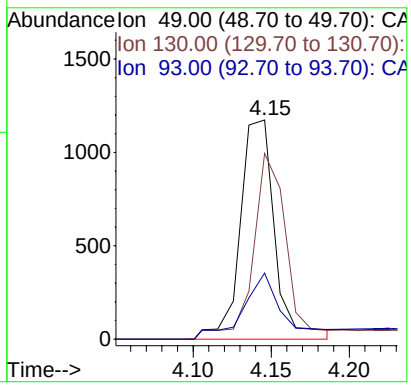


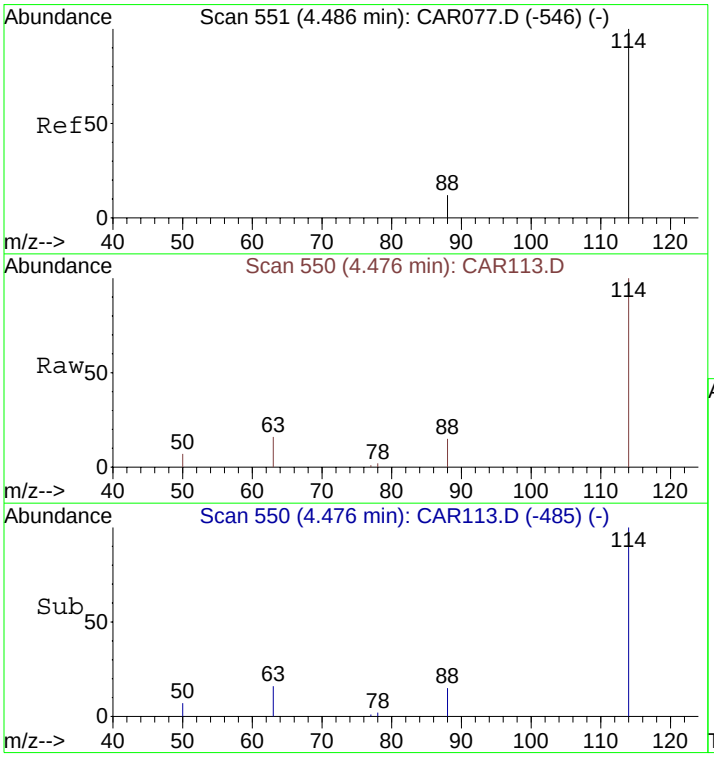


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.15 min Scan# 517
Delta R.T. 0.01 min
Lab File: CAR113.D
Acq: 17 Sep 2008 18:11

Tgt Ion: 49 Resp: 1644

Ion	Ratio	Lower	Upper
49	100		
130	80.6	65.1	97.7
93	34.6	33.8	50.6

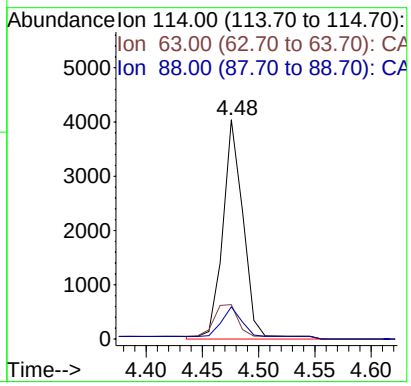


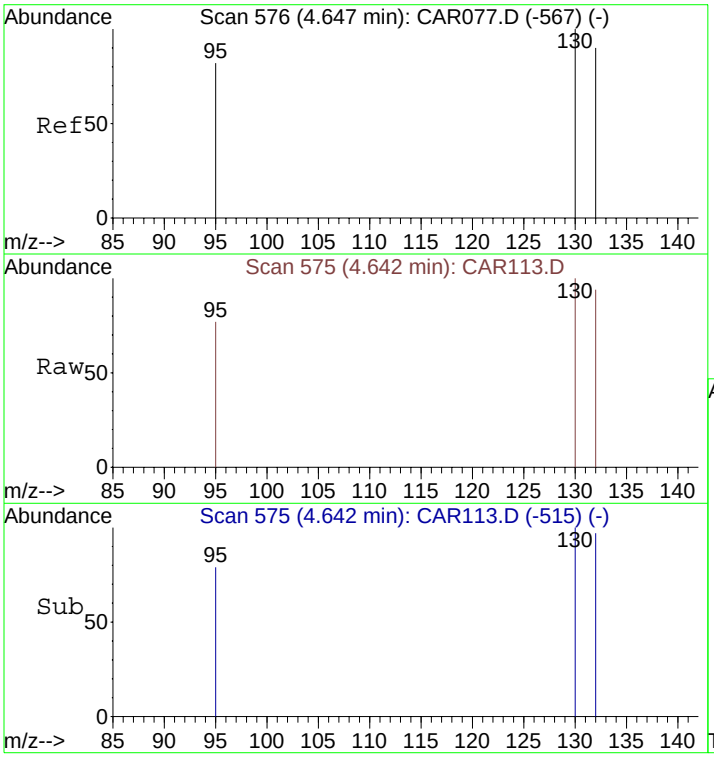


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR113.D
Acq: 17 Sep 2008 18:11

Tgt Ion:114 Resp: 4959

Ion	Ratio	Lower	Upper
114	100		
63	22.8	15.8	23.8
88	18.3	12.2	18.2#

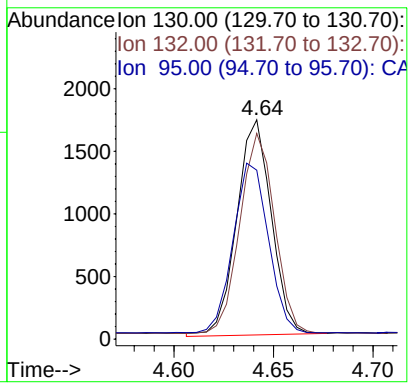


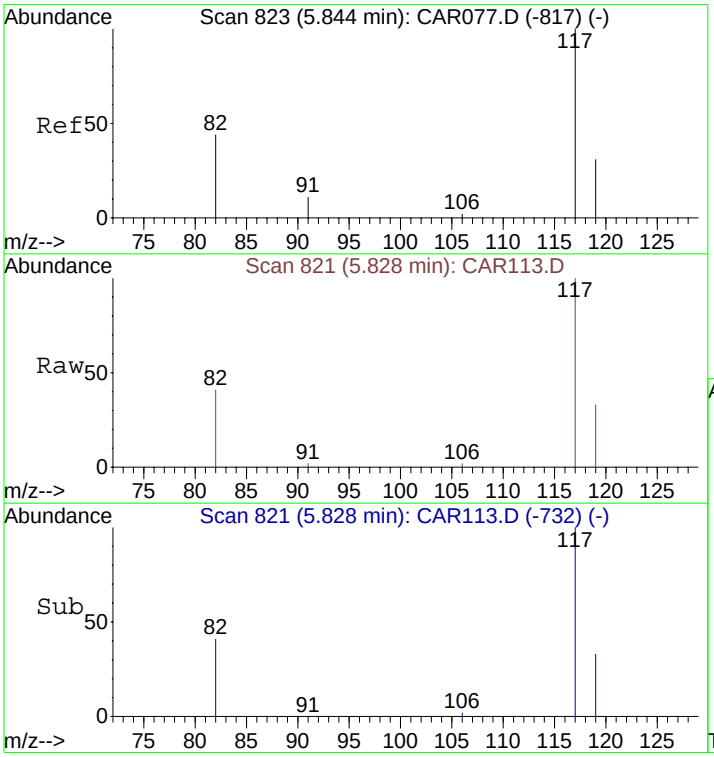


#11
Trichloroethene
Concen: 123.39 ppbv
RT: 4.64 min Scan# 575
Delta R.T. 0.02 min
Lab File: CAR113.D
Acq: 17 Sep 2008 18:11

Tgt Ion:130 Resp: 2087

Ion	Ratio	Lower	Upper
130	100		
132	96.4	73.8	110.6
95	82.3	72.5	108.7

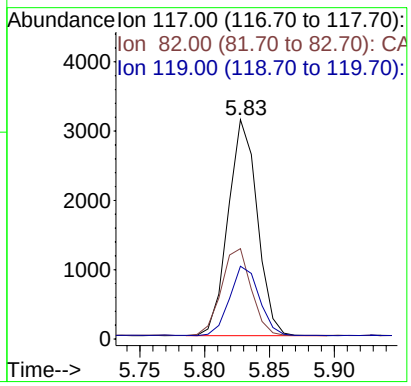


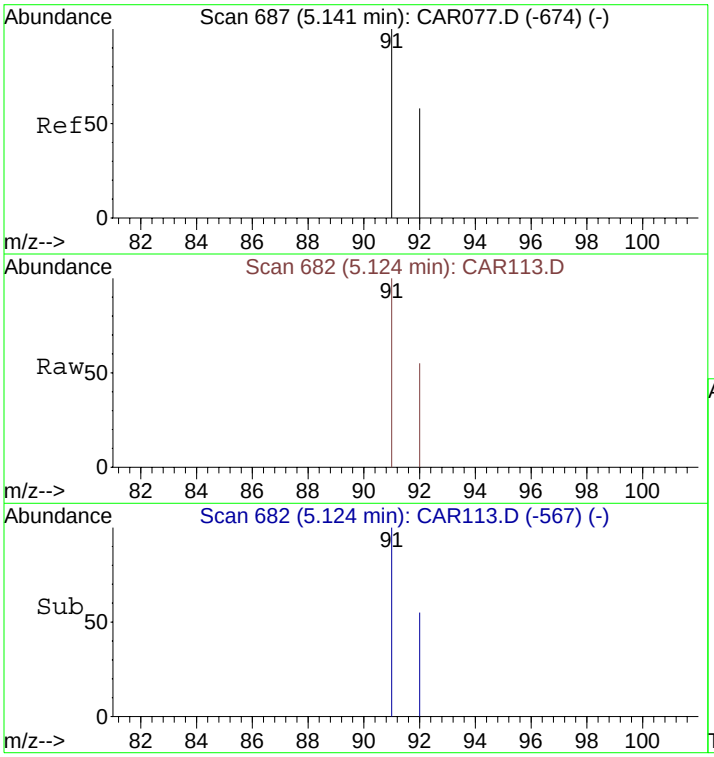


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.83 min Scan# 821
Delta R.T. 0.03 min
Lab File: CAR113.D
Acq: 17 Sep 2008 18:11

Tgt Ion:117 Resp: 4879

Ion	Ratio	Lower	Upper
117	100		
82	41.3	38.3	57.5
119	32.7	26.0	39.0

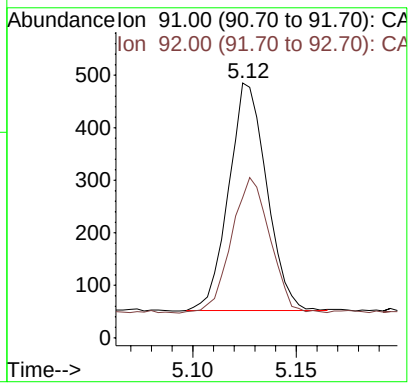


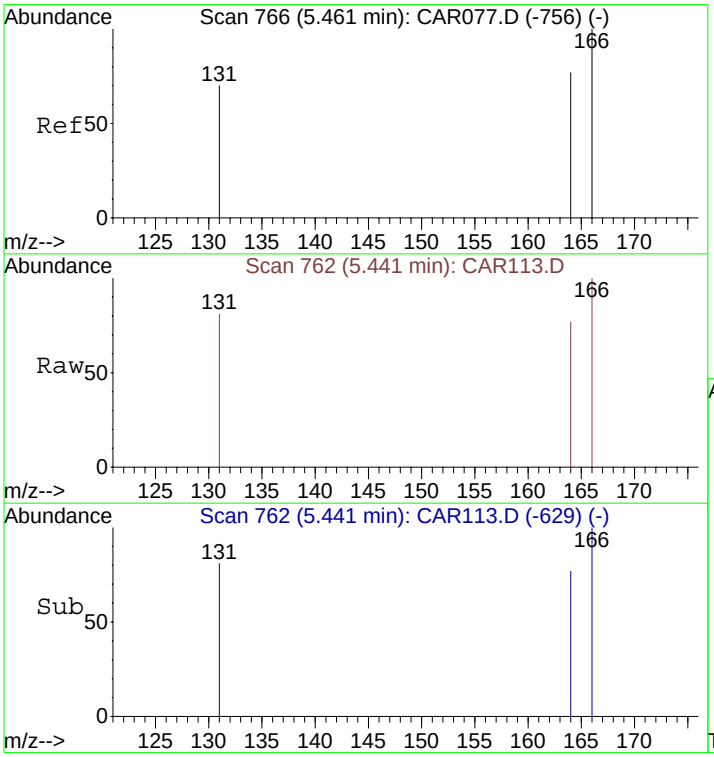


#13
Toluene
Concen: 15.40 ppbv
RT: 5.12 min Scan# 682
Delta R.T. 0.02 min
Lab File: CAR113.D
Acq: 17 Sep 2008 18:11

Tgt Ion: 91 Resp: 553

Ion	Ratio	Lower	Upper
91	100		
92	60.0	48.2	72.2

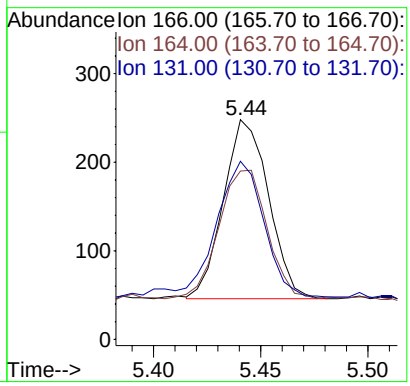




#14
Tetrachloroethene
Concen: 14.41 ppbv
RT: 5.44 min Scan# 762
Delta R.T. 0.03 min
Lab File: CAR113.D
Acq: 17 Sep 2008 18:11

Tgt Ion:166 Resp: 297

Ion	Ratio	Lower	Upper
166	100		
164	75.1	63.1	94.7
131	77.8	62.9	94.3



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR114.D Vial: 1
Acq On : 17 Sep 2008 18:23 Operator: dlm
Sample : 51427\E9-SG Inst : Instrumen
Misc : 0.05 ml\17 Sep 2008 Multiplr: 100.00
MS Integration Params: rteint.p
Quant Time: Sep 17 18:50:01 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1634	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	5093	10.00 ppbv	0.01
12) Chlorobenzene-d5	5.83	117	5234	10.00 ppbv	0.03

Target Compounds					Qvalue
7) cis-1,2-Dichloroethene	4.02	61	1862	1316.41 ppbv	92
11) Trichloroethene	4.64	130	390368	224734.32 ppbv *	93
14) Tetrachloroethene	5.44	166	3786	1712.38 ppbv	97
16) m&p-Xylenes	5.90	91	290	88.78 ppbv	100

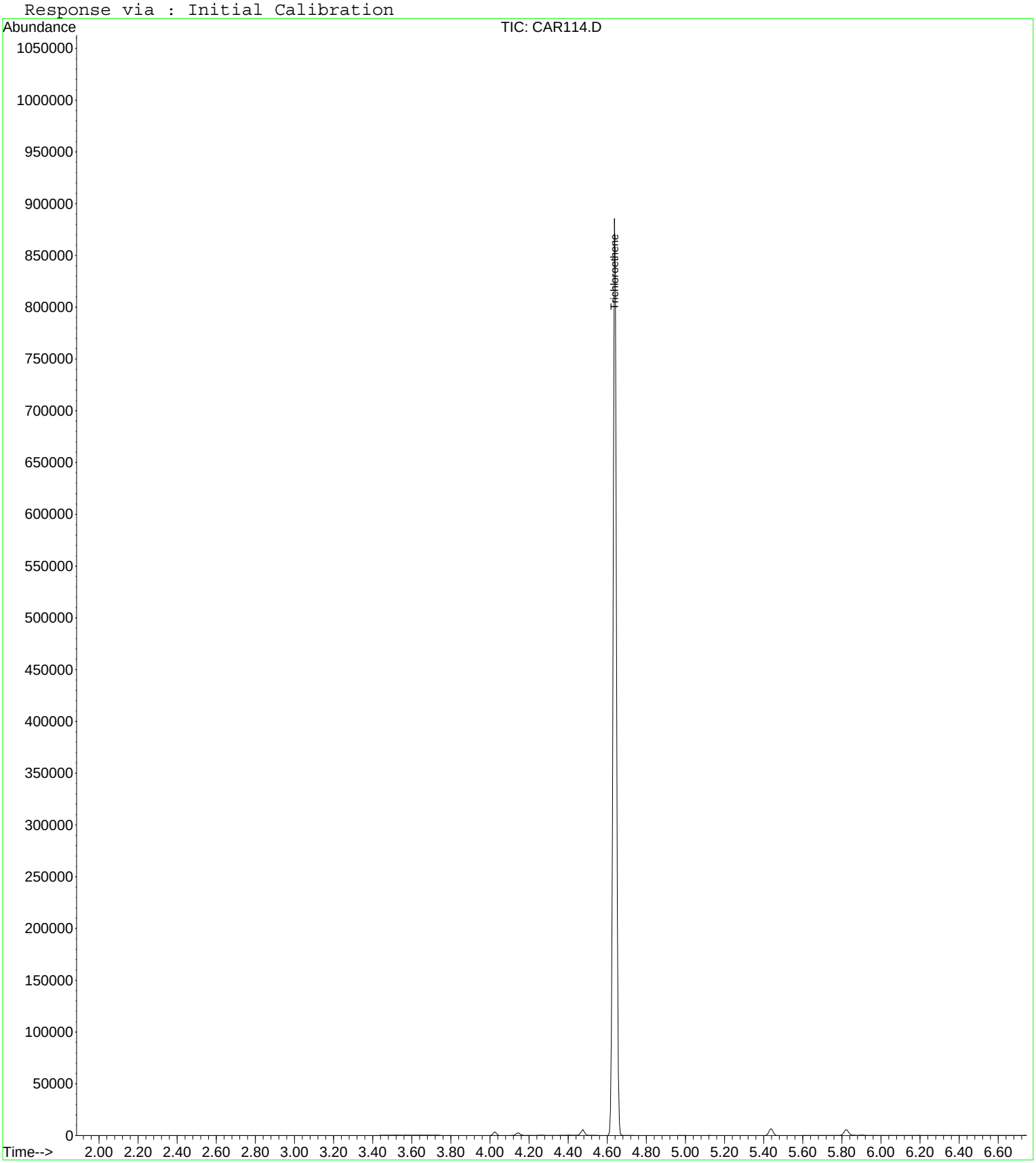
* Value used in file CAR099

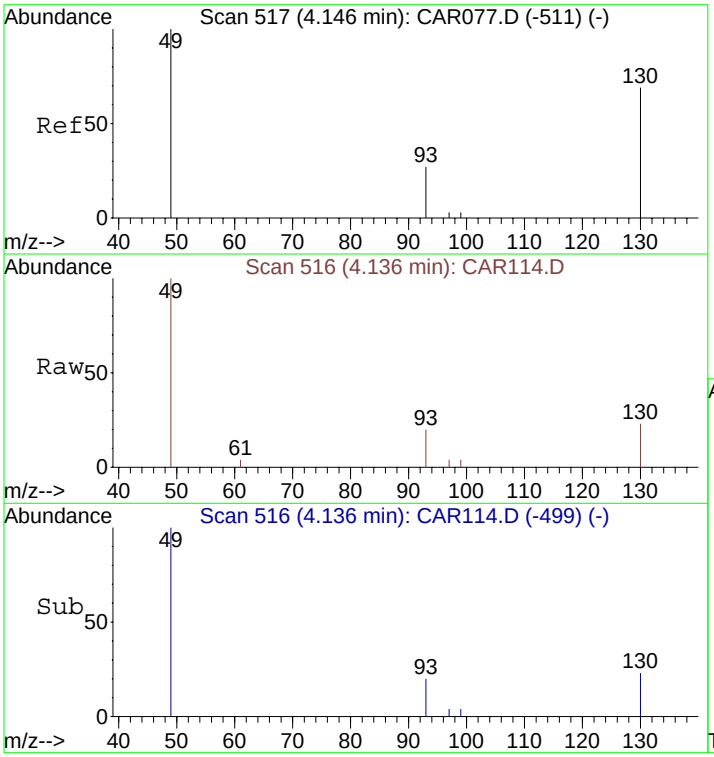
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR114.D Vial: 1
Acq On : 17 Sep 2008 18:23 Operator: dlm
Sample : 51427\E9-SG Inst : Instrumen
Misc : 0.05 ml\17 Sep 2008 Multiplr: 100.00
MS Integration Params: rteint.p
Quant Time: Sep 30 9:50 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

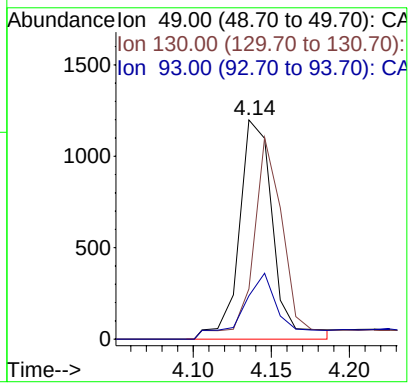


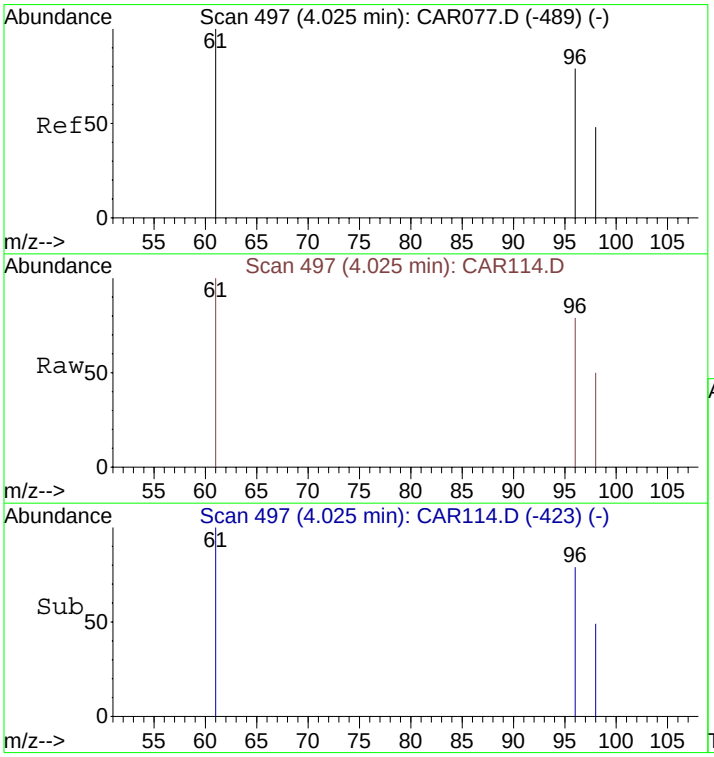


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 516
Delta R.T. 0.00 min
Lab File: CAR114.D
Acq: 17 Sep 2008 18:23

Tgt Ion: 49 Resp: 1634

Ion	Ratio	Lower	Upper
49	100		
130	81.6	65.1	97.7
93	34.3	33.8	50.6

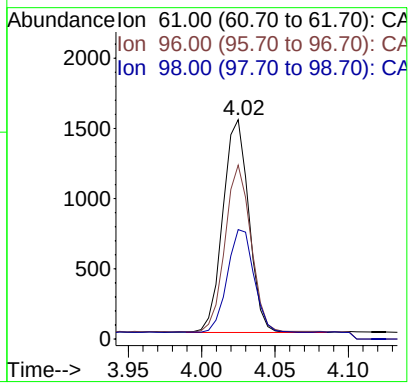


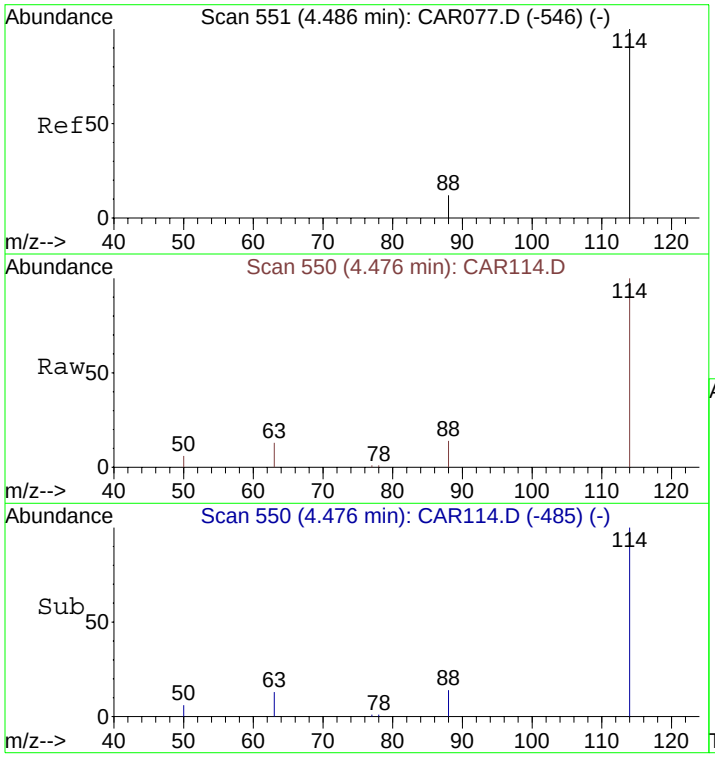


#7
cis-1,2-Dichloroethene
Concen: 1316.41 ppbv
RT: 4.02 min Scan# 497
Delta R.T. 0.01 min
Lab File: CAR114.D
Acq: 17 Sep 2008 18:23

Tgt Ion: 61 Resp: 1862

Ion	Ratio	Lower	Upper
61	100		
96	77.9	56.0	84.0
98	49.4	36.2	54.4

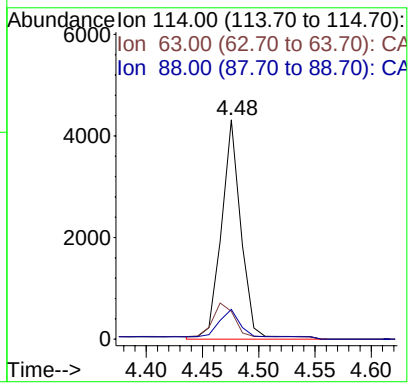


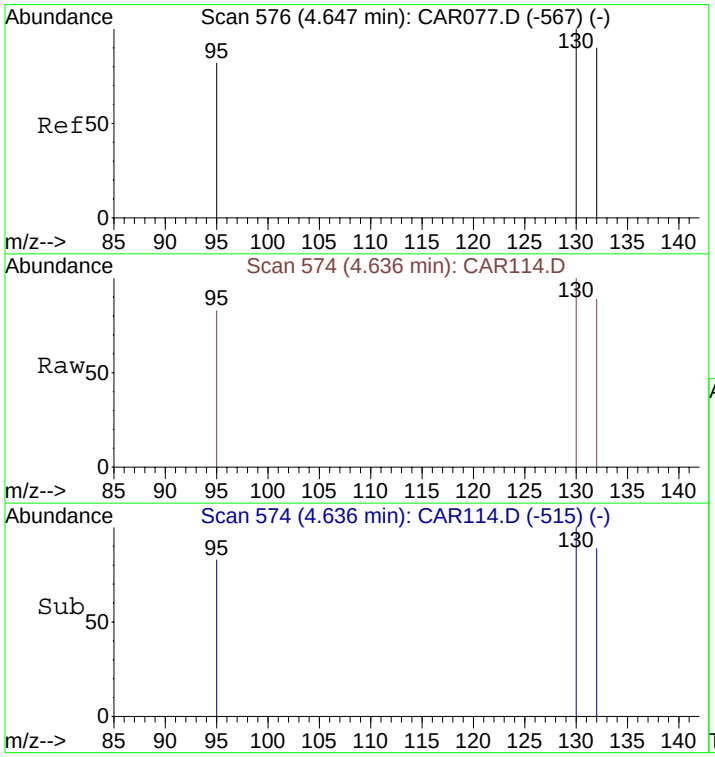


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 550
Delta R.T. 0.01 min
Lab File: CAR114.D
Acq: 17 Sep 2008 18:23

Tgt Ion:114 Resp: 5093

Ion	Ratio	Lower	Upper
114	100		
63	16.8	15.8	23.8
88	13.9	12.2	18.2

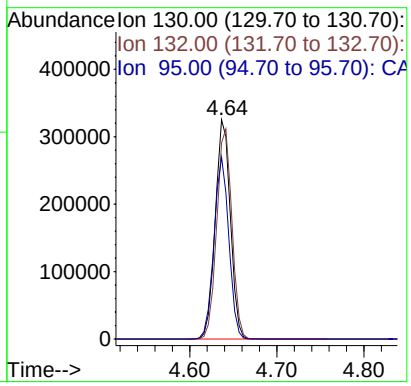


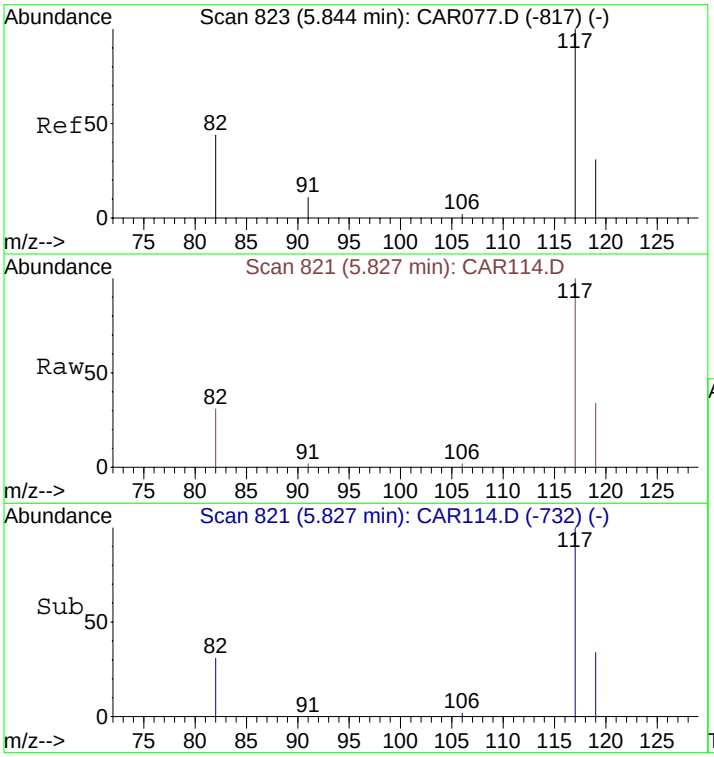


#11
Trichloroethene
Concen: 224734.32 ppbv
RT: 4.64 min Scan# 574
Delta R.T. 0.01 min
Lab File: CAR114.D
Acq: 17 Sep 2008 18:23

Tgt Ion:130 Resp: 390368

Ion	Ratio	Lower	Upper
130	100		
132	96.3	73.8	110.6
95	81.6	72.5	108.7

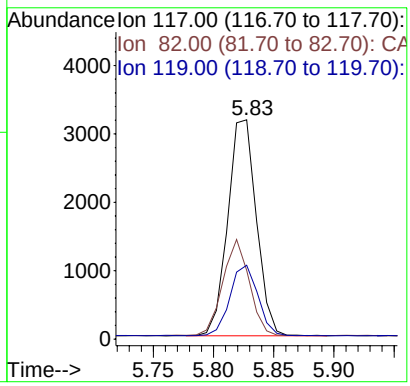


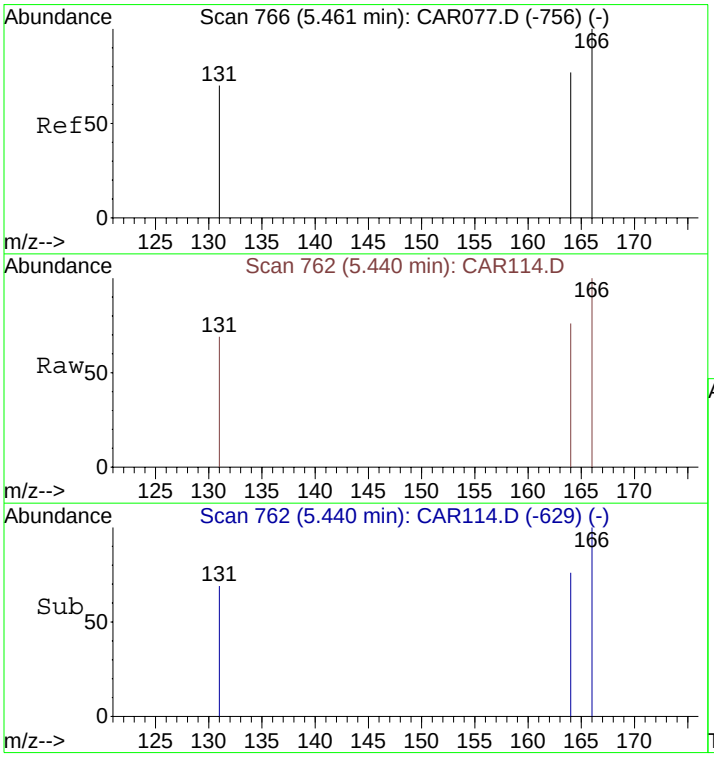


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.83 min Scan# 821
Delta R.T. 0.03 min
Lab File: CAR114.D
Acq: 17 Sep 2008 18:23

Tgt Ion:117 Resp: 5234

Ion	Ratio	Lower	Upper
117	100		
82	41.1	38.3	57.5
119	31.9	26.0	39.0

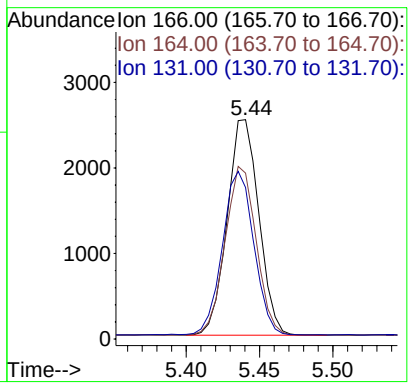


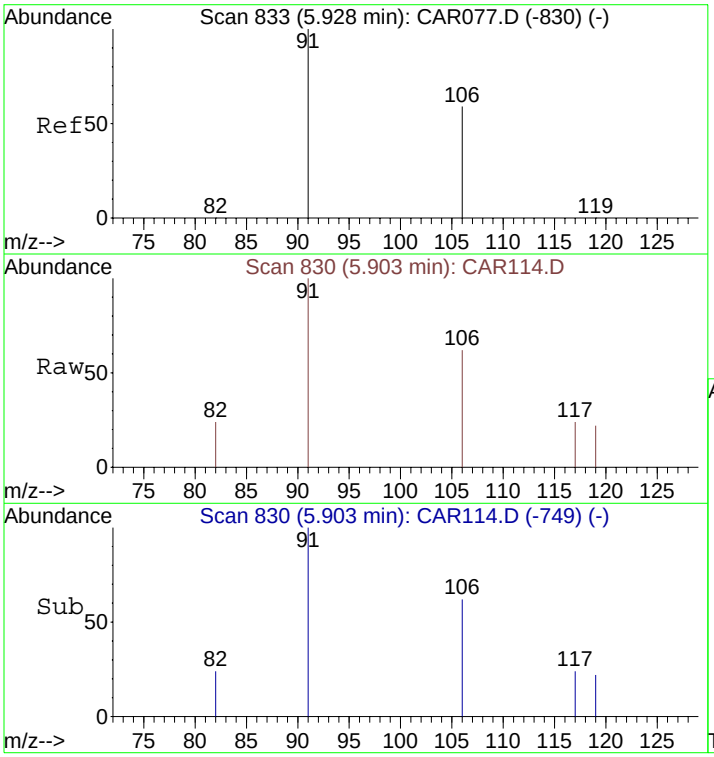


#14
Tetrachloroethene
Concen: 1712.38 ppbv
RT: 5.44 min Scan# 762
Delta R.T. 0.03 min
Lab File: CAR114.D
Acq: 17 Sep 2008 18:23

Tgt Ion:166 Resp: 3786

Ion	Ratio	Lower	Upper
166	100		
164	76.8	63.1	94.7
131	75.4	62.9	94.3

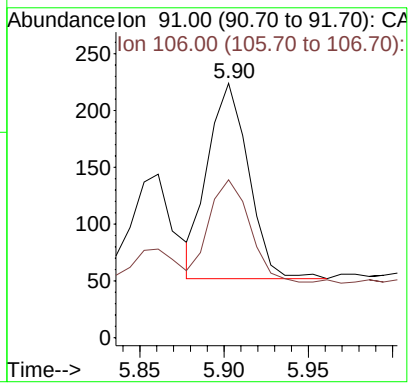




#16
m&p-Xylenes
Concen: 88.78 ppbv
RT: 5.90 min Scan# 830
Delta R.T. 0.03 min
Lab File: CAR114.D
Acq: 17 Sep 2008 18:23

Tgt Ion: 91 Resp: 290

Ion	Ratio	Lower	Upper
91	100		
106	52.1	41.8	62.8



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR115.D Vial: 1
Acq On : 17 Sep 2008 18:34 Operator: dlm
Sample : 51429\C2-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 17 18:50:30 2008 Quant Results File: LOOP20080917.RES

Quant Method : C:\MSDCHEM\1...\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Wed Sep 17 10:04:33 2008
Response via : Initial Calibration
DataAcq Meth : LOOPSIMP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	4.14	49	1727	10.00 ppbv	0.00
9) 1,4-Difluorobenzene	4.48	114	5186	10.00 ppbv	0.02
12) Chlorobenzene-d5	5.84	117	5031	10.00 ppbv	0.05

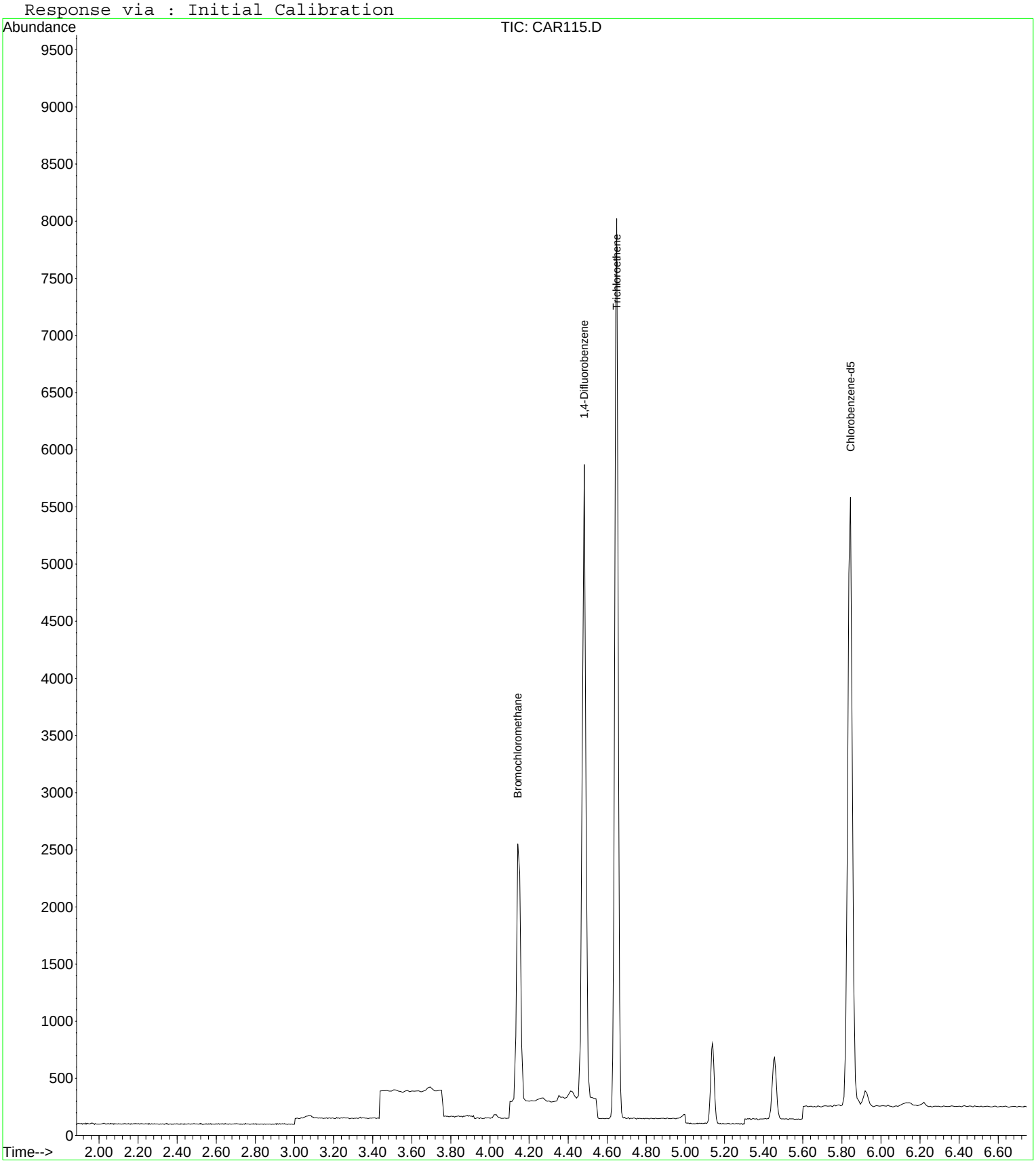
Target Compounds					Qvalue
11) Trichloroethene	4.65	130	3479	196.69 ppbv	92
13) Toluene	5.13	91	587	15.85 ppbv	97
14) Tetrachloroethene	5.46	166	327	15.39 ppbv	98

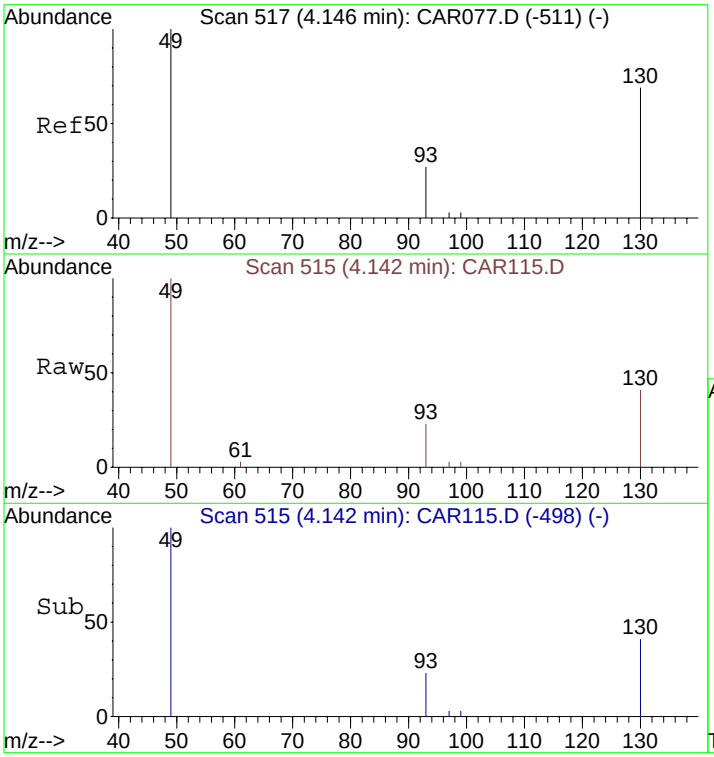
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\20080917\CAR115.D Vial: 1
Acq On : 17 Sep 2008 18:34 Operator: dlm
Sample : 51429\C2-SG Inst : Instrumen
Misc : 0.5 ml\17 Sep 2008 Multiplr: 10.00
MS Integration Params: rteint.p
Quant Time: Sep 30 9:56 2008 Quant Results File: LOOP20080917.RES

Method : C:\MSDCHEM\1\METHODS\LOOP20080917.M (RTE Integrator)
Title : VOC
Last Update : Tue Sep 30 15:22:34 2008
Response via : Initial Calibration

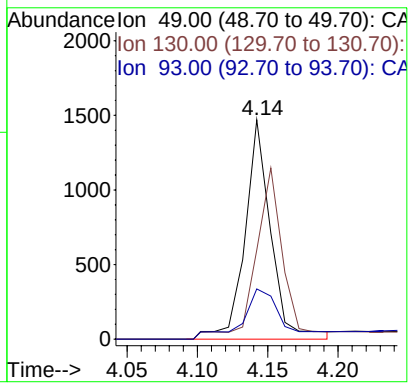


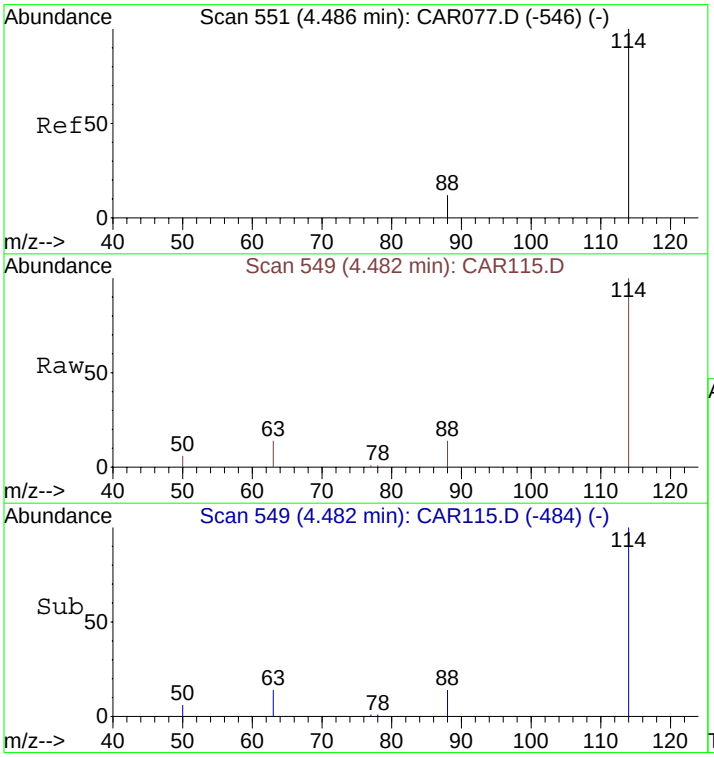


#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 4.14 min Scan# 515
Delta R.T. 0.01 min
Lab File: CAR115.D
Acq: 17 Sep 2008 18:34

Tgt Ion: 49 Resp: 1727

Ion	Ratio	Lower	Upper
49	100		
130	79.3	65.1	97.7
93	33.2	33.8	50.6#

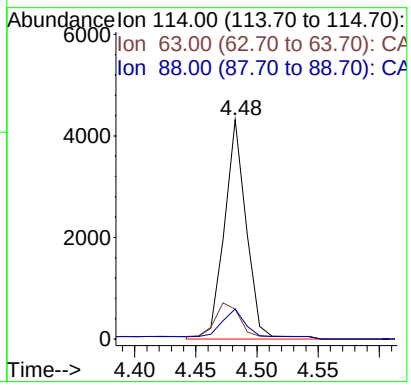


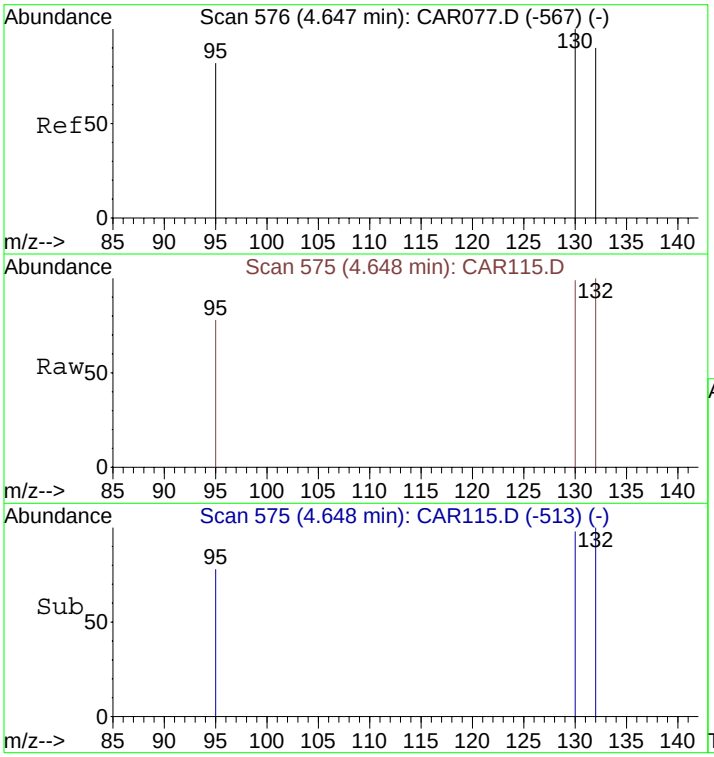


#9
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 4.48 min Scan# 549
Delta R.T. 0.02 min
Lab File: CAR115.D
Acq: 17 Sep 2008 18:34

Tgt Ion:114 Resp: 5186

Ion	Ratio	Lower	Upper
114	100		
63	22.0	15.8	23.8
88	17.8	12.2	18.2

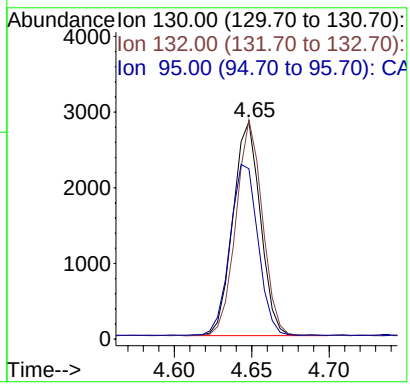


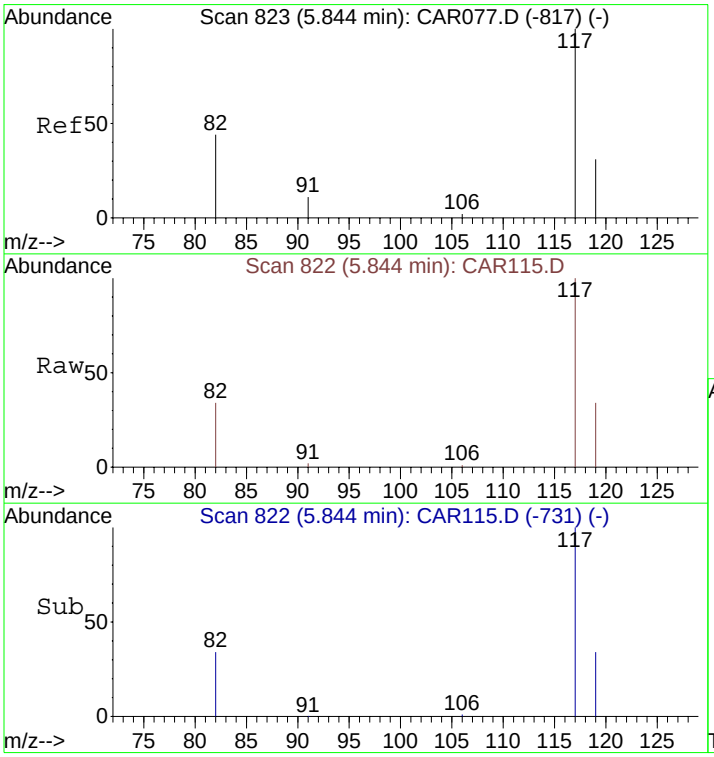


#11
Trichloroethene
Concen: 196.69 ppbv
RT: 4.65 min Scan# 575
Delta R.T. 0.02 min
Lab File: CAR115.D
Acq: 17 Sep 2008 18:34

Tgt Ion:130 Resp: 3479

Ion	Ratio	Lower	Upper
130	100		
132	99.0	73.8	110.6
95	81.3	72.5	108.7

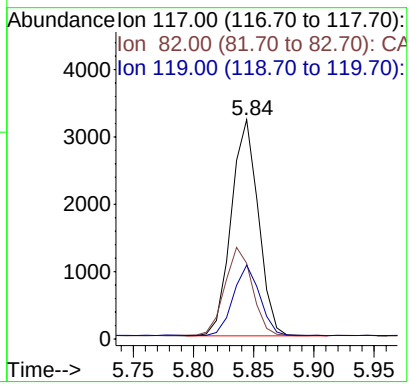


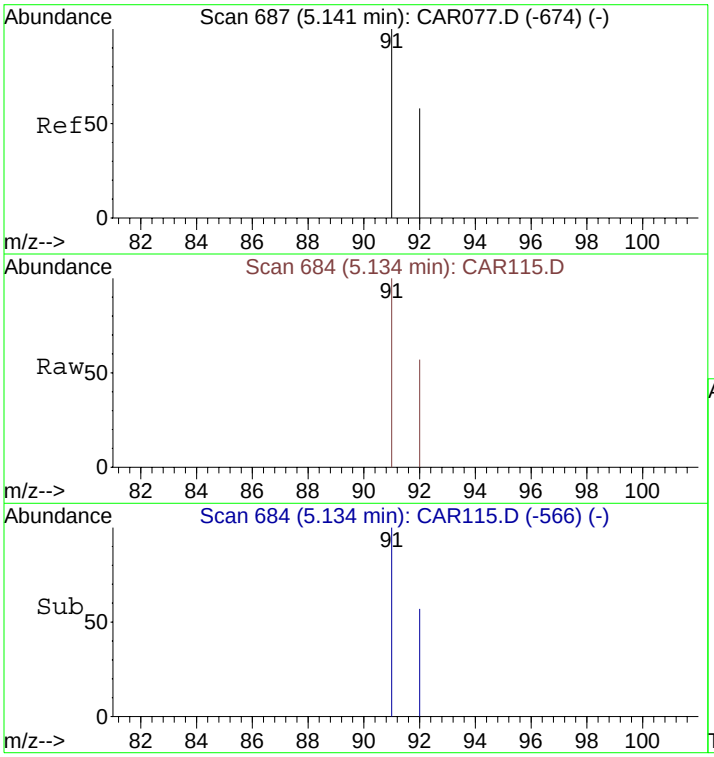


#12
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 5.84 min Scan# 822
Delta R.T. 0.05 min
Lab File: CAR115.D
Acq: 17 Sep 2008 18:34

Tgt Ion:117 Resp: 5031

Ion	Ratio	Lower	Upper
117	100		
82	41.5	38.3	57.5
119	32.0	26.0	39.0

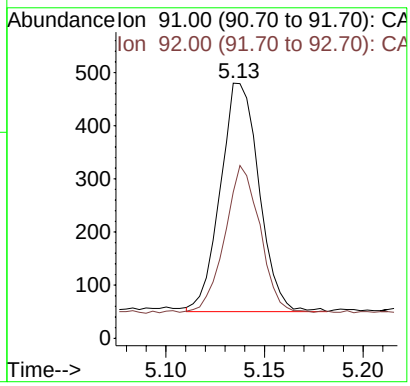


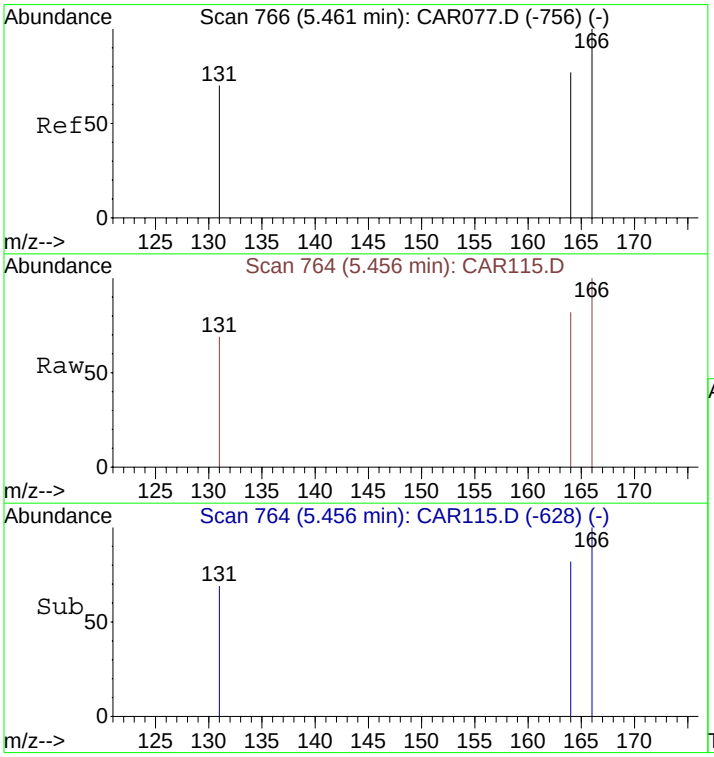


#13
Toluene
Concen: 15.85 ppbv
RT: 5.13 min Scan# 684
Delta R.T. 0.03 min
Lab File: CAR115.D
Acq: 17 Sep 2008 18:34

Tgt Ion: 91 Resp: 587

Ion	Ratio	Lower	Upper
91	100		
92	57.8	48.2	72.2

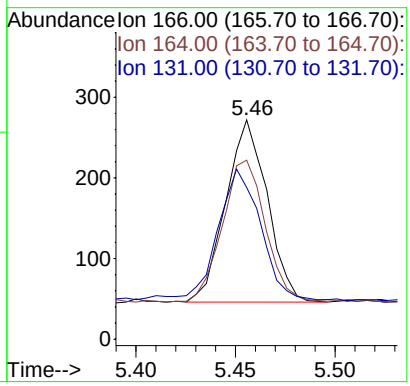




#14
Tetrachloroethene
Concen: 15.39 ppbv
RT: 5.46 min Scan# 764
Delta R.T. 0.04 min
Lab File: CAR115.D
Acq: 17 Sep 2008 18:34

Tgt Ion:166 Resp: 327

Ion	Ratio	Lower	Upper
166	100		
164	79.5	63.1	94.7
131	75.2	62.9	94.3



APPENDIX B

SUMMA® Canister Analytical Report

Carter Carburetor Site

Final Report

November 2008

ANALYTICAL REPORT

Prepared by
LOCKHEED MARTIN, Inc.

Carter Carburetor Site
Saint Louis, Missouri

October 2008

EPA Work Assignment No. 0-362
LOCKHEED MARTIN Work Order EAC0362
EPA Contract No. EP-C-04-032

Submitted to
D. Mickunas
EPA-ERT

V. Kansal Analytical Section Leader	10/30/08 Date	Analysis by: Con-Test
D. Killeen Quality Assurance Officer	10/30/08 Date	Prepared by: Y. Mehra
D. Miller Program Manager	10/30/08 Date	Reviewed by: J. Soroka

0362-DAR-103008

Table of Contents

The appendix will be furnished on request

Introduction

REAC, in response to WA# 0-362, provided analytical support for environmental samples collected from the Carter Carburetor Site located in Saint Louis Missouri, as described in the following table. The support also included QA/QC, data review and preparation of an analytical report containing analytical and QA/QC results.

COC #	Number of Samples	Sampling Date	Date Received	Matrix	Analysis/ Method	Laboratory	Data Package
0-362-09/18/08-0003	1	9/18/08	9/22/08	Air	VOC/ TO-15	Con-Test[1]	T 307
	1			Soil Gas			
0-362-09/18/08-0004	4						
0-362-09/18/08-0005	2						
	2			Air			
0-362-09/18/08-0006	4			Soil Gas			
0-362-09/18/08-0007	4						
0-362-09/18/08-0008	4						
0-362-09/18/08-0009	4						
0-362-09/18/08-0010	4						

[1] Con-Test is NELAC certified for TO-15 analysis.

Case Narrative

The laboratory reported the data to two significant figures. Any other representation of the data is the responsibility of the user. All data validation flags have been inserted into the results tables. At the request of the WAM, the laboratory analyzed and reported only six chlorinated compounds for the TO-15 analysis.

VOC in Air Package T 307

The reported tetrachloroethylene (PCE) concentration in several diluted runs for sample 0-362-0019 samples were identical. The PCE result in sample 0-362-0019 is probably an artifact and is qualified non- detect (U); the RL for PCE was raised to the highest reported value.

Summary of Abbreviations

BFB	Bromofluorobenzene
C	Centigrade
CLP	Contract Laboratory Program
COC	Chain of Custody
conc	concentration
cont	continued
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
D	(Surrogate Table) value is from a diluted sample and was not calculated
Dioxin	Polychlorinated dibenzo-p-dioxins (PCDD) and Polychlorinated dibenzofurans (PCDF)
DFTPP	Decafluorotriphenylphosphine
EMPC	Estimated maximum possible concentration
GC/MS	Gas Chromatography/ Mass Spectrometry
IS	Internal Standard
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MDA	Minimum Detectable Activity
MS (BS)	Matrix Spike (Blank Spike)
MSD (BSD)	Matrix Spike Duplicate (Blank Spike Duplicate)
MW	Molecular Weight
NA	Not Applicable or Not Available
NAD	Normalized Absolute Difference
NC	Not Calculated
NR	Not Requested/Not Reported
NS	Not Spiked
% D	Percent Difference
% REC	Percent Recovery
SOP	Standard Operating Procedure
ppbv	parts per billion by volume
ppm	parts per million
pptv	parts per trillion by volume
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance/Quality Control
QL	Quantitation Limit
REAC	Response Engineering and Analytical Contract
RL	Reporting Limit
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
SIM	Selected Ion Monitoring
Sur	Surrogate
TIC	Tentatively Identified Compound
TCLP	Toxicity Characteristic Leaching Procedure
VOC	Volatile Organic Compound
*	Value exceeds the acceptable QC limits.

m^3	cubic meter	g	gram	kg	kilogram	L	liter
µg	microgram	µL	microliter	mg	milligram	mL	milliliter
ng	nanogram	pg	picogram	pCi	picocurie	s	sigma

Data Validation Flags

J	Value is estimated	R	Value is unusable
J+	Value is estimated high (metals only)	U	Not detected
J-	Value is estimated low (metals only)	UJ	Not detected and RL is estimated

Rev. 02/05/08

Table 1.1a Results of the Analysis for VOC (ppbv) in Air
WA # 0-362 Carter Carburetor Site

Method : TO-15

Sample Number	MBLK-124198		0-362-0001		0-362-0002		0-362-0003		0-362-0004	
Sample Location	09/24/08		F3-24-SG		F2-24-SG		F1-24-SG		G2-24-SG	
Analyte	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv
Vinyl Chloride	U	0.050	U	0.050	U	0.050	U	0.050	U	0.10
1,1-Dichloroethylene	U	0.050	U	0.050	U	0.050	U	0.050	U	0.10
t-1,2-Dichloroethylene	U	0.050	U	0.050	0.050	0.050	U	0.050	U	0.10
cis-1,2-Dichloroethylene	U	0.050	U	0.050	U	0.050	U	0.050	0.12	0.10
Trichloroethylene	U	0.050	44	1.0	23	0.050	13	0.050	730	10
Tetrachloroethylene	U	0.050	47	1.0	11	0.050	4.7	0.050	1.7	0.10

Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
WA # 0-362 Carter Carburetor Site

Method : TO-15

Sample Number	0-362-0005		0-362-0006		0-362-0011		0-362-0012		0-362-0014	
Sample Location	H1-24-SG		H4-24-SG		B2-24-SG		A2-24-SG		AMBIENT	
Analyte	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv
Vinyl Chloride	U	0.050	U	0.050	U	0.050	U	0.050	0.15	0.050
1,1-Dichloroethylene	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050
t-1,2-Dichloroethylene	U	0.050	U	0.050	U	0.050	U	0.050	U	0.050
cis-1,2-Dichloroethylene	U	0.050	U	0.050	0.050	0.050	U	0.050	0.26	0.050
Trichloroethylene	0.33	0.050	2.6	0.050	0.78	0.050	9.7	0.050	0.41	0.050
Tetrachloroethylene	0.21	0.050	2.4	0.050	0.10	0.050	12	0.050	0.32	0.050

Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
WA # 0-362 Carter Carburetor Site

Method : TO-15

Sample Number	0-362-0020		0-362-0022		0-362-0024		0-362-0025		0-362-0026	
Sample Location	C2-24-SG		A8-24-SG		B5-24-SG		D4-24-SG		B11-24-SG	
Analyte	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv
Vinyl Chloride	U	0.050	U	0.50	U	0.050	71	1.0	U	0.10
1,1-Dichloroethylene	U	0.050	U	0.50	U	0.050	0.19	0.050	U	0.10
t-1,2-Dichloroethylene	U	0.050	U	0.50	0.22	0.050	0.40	0.050	U	0.10
cis-1,2-Dichloroethylene	U	0.050	28	0.50	93	1.0	20	0.050	U	0.10
Trichloroethylene	89	1.0	160	0.50	210	1.0	19	0.050	420	1.0
Tetrachloroethylene	14	0.050	U	0.50	46	1.0	0.45	0.050	48	0.10

Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
WA # 0-362 Carter Carburetor Site

Method : TO-15

Sample Number	0-362-0027		0-362-0029		0-362-0030	
Sample Location	C11-24-SG		AMBIENT		TRIP	
Analyte	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv
Vinyl Chloride	U	0.25	U	0.050	U	0.050
1,1-Dichloroethylene	U	0.25	U	0.050	U	0.050
t-1,2-Dichloroethylene	U	0.25	U	0.050	U	0.050
cis-1,2-Dichloroethylene	U	0.25	U	0.050	U	0.050
Trichloroethylene	1400	10	0.11	0.050	U	0.050
Tetrachloroethylene	57	0.25	0.38	0.050	U	0.050

Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
WA # 0-362 Carter Carburetor Site

Method : TO-15

Sample Number	MBLK-124206		0-362-0007		0-362-0008		0-362-0009		0-362-0010	
Sample Location	09/25/08		E11-24-SG		E10-24-SG		D10-24-SG		E9-24-SG	
Analyte	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv
Vinyl Chloride	U	0.050	U	1.0	U	2.0	U	2.0	U	2.0
1,1-Dichloroethylene	U	0.050	U	1.0	U	2.0	U	2.0	U	2.0
t-1,2-Dichloroethylene	U	0.050	2.1	1.0	11	2.0	79	2.0	5.9	2.0
cis-1,2-Dichloroethylene	U	0.050	28	1.0	230	2.0	1200	100	220	2.0
Trichloroethylene	U	0.050	4500	10	10000	100	14000	100	18000	50
Tetrachloroethylene	U	0.050	49	1.0	110	2.0	850	2.0	240	2.0

Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
WA # 0-362 Carter Carburetor Site

Method : TO-15

Sample Number	0-362-0013		0-362-0015		0-362-0017		0-362-0018		0-362-0019	
Sample Location	C5-24-SG		C8-24-SG		D7-24-SG		E3-24-SG		D1-24-SG	
Analyte	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv
Vinyl Chloride	U	2.0	U	10	U	1.0	U	0.25	U	2.0
1,1-Dichloroethylene	U	2.0	U	10	U	1.0	U	0.25	U	2.0
t-1,2-Dichloroethylene	19	2.0	76	10	11	1.0	0.50	0.25	69	2.0
cis-1,2-Dichloroethylene	850	2.0	1400	10	34	1.0	1.7	0.25	63	2.0
Trichloroethylene	11000	50	42000	100	7000	10	1200	10	9700	50
Tetrachloroethylene	69	2.0	370	10	16	1.0	390	10	U	17

Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
WA # 0-362 Carter Carburetor Site

Method : TO-15

Sample Number	0-362-0021		0-362-0023		0-362-0028	
Sample Location	B8-24-SG		A5-24-SG		E12-24-SG	
Analyte	Result ppbv	RL ppbv	Result ppbv	RL ppbv	Result ppbv	RL ppbv
Vinyl Chloride	U	10	U	10	U	1.0
1,1-Dichloroethylene	11	10	U	10	U	1.0
t-1,2-Dichloroethylene	180	10	19	10	3.1	1.0
cis-1,2-Dichloroethylene	10000	200	530	10	41	1.0
Trichloroethylene	110000	200	27000	50	3600	10
Tetrachloroethylene	160	10	160	10	330	1.0

Table 1.1a (cont) Results of the Analysis for VOC (ppbv) in Air
WA # 0-362 Carter Carburetor Site

Method : TO-15

Sample Number	9/26/2008		0-362-0016	
Sample Location	BLANK-124258		E7-24-SG	
Analyte	Result ppbv	RL ppbv	Result ppbv	RL ppbv
Vinyl Chloride	U	0.050	U	0.050
1,1-Dichloroethylene	U	0.050	U	0.050
t-1,2-Dichloroethylene	U	0.050	0.72	0.050
cis-1,2-Dichloroethylene	U	0.050	14	0.050
Trichloroethylene	U	0.050	210	1.0
Tetrachloroethylene	U	0.050	0.17	0.050

Table 1.1b Resulst of the Analysis for VOC (µg/m^3) in Air
WA # 0-362 Carter Carburetor Site

Method : TO-15

Sample Number	MBLK-124198		0-362-0001		0-362-0002		0-362-0003		0-362-0004	
Sample Location	09/24/08		F3-24-SG		F2-24-SG		F1-24-SG		G2-24-SG	
Analyte	Result µg/m^3	RL µg/m^3	Result µg/m^3	RL µg/m^3	Result µg/m^3	RL µg/m^3	Result µg/m^3	RL µg/m^3	Result µg/m^3	RL µg/m^3
Vinyl Chloride	U	0.13	U	0.13	U	0.13	U	0.13	U	0.26
1,1-Dichloroethylene	U	0.20	U	0.20	U	0.20	U	0.20	U	0.40
t-1,2-Dichloroethylene	U	0.20	U	0.20	0.20	0.20	U	0.20	U	0.40
cis-1,2-Dichloroethylene	U	0.20	U	0.20	U	0.20	U	0.20	0.47	0.40
Trichloroethylene	U	0.27	230	5.4	120	0.27	72	0.27	3900	54
Tetrachloroethylene	U	0.34	320	6.8	78	0.34	32	0.34	11	0.68

Table 1.1b (cont) Resulst of the Analysis for VOC (µg/m^3) in Air
WA # 0-362 Carter Carburetor Site

Method : TO-15

Sample Number	0-362-0005		0-362-0006		0-362-0011		0-362-0012		0-362-0014	
Sample Location	H1-24-SG		H4-24-SG		B2-24-SG		A2-24-SG		AMBIENT	
Analyte	Result µg/m^3	RL µg/m^3	Result µg/m^3	RL µg/m^3	Result µg/m^3	RL µg/m^3	Result µg/m^3	RL µg/m^3	Result µg/m^3	RL µg/m^3
Vinyl Chloride	U	0.13	U	0.13	U	0.13	U	0.13	0.39	0.13
1,1-Dichloroethylene	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20
t-1,2-Dichloroethylene	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20
cis-1,2-Dichloroethylene	U	0.20	U	0.20	0.20	0.20	U	0.20	1.1	0.20
Trichloroethylene	1.8	0.27	14	0.27	4.2	0.27	52	0.27	2.2	0.27
Tetrachloroethylene	1.5	0.34	16	0.34	0.68	0.34	84	0.34	2.2	0.34

Table 1.1b (cont) Resulst of the Analysis for VOC (µg/m^3) in Air
WA # 0-362 Carter Carburetor Site

Method : TO-15

Sample Number	0-362-0020		0-362-0022		0-362-0024		0-362-0025		0-362-0026	
Sample Location	C2-24-SG		A8-24-SG		B5-24-SG		D4-24-SG		B11-24-SG	
Analyte	Result µg/m^3	RL µg/m^3	Result µg/m^3	RL µg/m^3	Result µg/m^3	RL µg/m^3	Result µg/m^3	RL µg/m^3	Result µg/m^3	RL µg/m^3
Vinyl Chloride	U	0.13	U	1.3	U	0.13	180	2.6	U	0.26
1,1-Dichloroethylene	U	0.20	U	2.0	U	0.20	0.74	0.20	U	0.40
t-1,2-Dichloroethylene	U	0.20	U	2.0	0.86	0.20	1.6	0.20	U	0.40
cis-1,2-Dichloroethylene	U	0.20	110	2.0	370	4.0	78	0.20	U	0.40
Trichloroethylene	480	5.4	860	2.7	1100	5.4	100	0.27	2300	5.4
Tetrachloroethylene	92	0.34	U	3.4	310	6.8	3.0	0.34	330	0.68

Table 1.1b (cont) Resulst of the Analysis for VOC (µg/m³) in Air
WA # 0-362 Carter Carburetor Site

Method : TO-15

Sample Number	0-362-0027		0-362-0029		0-362-0030	
Sample Location	C11-24-SG		AMBIENT		TRIP	
Analyte	Result µg/m³	RL µg/m³	Result µg/m³	RL µg/m³	Result µg/m³	RL µg/m³
Vinyl Chloride	U	0.65	U	0.13	U	0.13
1,1-Dichloroethylene	U	1.0	U	0.20	U	0.20
t-1,2-Dichloroethylene	U	1.0	U	0.20	U	0.20
cis-1,2-Dichloroethylene	U	1.0	U	0.20	U	0.20
Trichloroethylene	7400	54	0.61	0.27	U	0.27
Tetrachloroethylene	390	1.7	2.6	0.34	U	0.34

Table 1.1b (cont) Resulst of the Analysis for VOC (µg/m³) in Air
WA # 0-362 Carter Carburetor Site

Method : TO-15

Sample Number	MBLK-124206		0-362-0007		0-362-0008		0-362-0009		0-362-0010	
Sample Location	09/25/08		E11-24-SG		E10-24-SG		D10-24-SG		E9-24-SG	
Analyte	Result µg/m³	RL µg/m³	Result µg/m³	RL µg/m³	Result µg/m³	RL µg/m³	Result µg/m³	RL µg/m³	Result µg/m³	RL µg/m³
Vinyl Chloride	U	0.13	U	2.6	U	5.2	U	5.2	U	5.2
1,1-Dichloroethylene	U	0.20	U	4.0	U	8.0	U	8.0	U	8.0
t-1,2-Dichloroethylene	U	0.20	8.2	4.0	43	8.0	310	8.0	23	8.0
cis-1,2-Dichloroethylene	U	0.20	110	4.0	920	8.0	4600	400	880	8.0
Trichloroethylene	U	0.27	24000	54	56000	540	76000	540	99000	270
Tetrachloroethylene	U	0.34	330	6.8	740	14	5800	14	1600	14

Table 1.1b (cont) Resulst of the Analysis for VOC (µg/m³) in Air
WA # 0-362 Carter Carburetor Site

Method : TO-15

Sample Number	0-362-0013		0-362-0015		0-362-0017		0-362-0018		0-362-0019	
Sample Location	C5-24-SG		C8-24-SG		D7-24-SG		E3-24-SG		D1-24-SG	
Analyte	Result µg/m³	RL µg/m³	Result ug/m3	RL ug/m3	Result µg/m³	RL µg/m³	Result µg/m³	RL µg/m³	Result µg/m³	RL µg/m³
Vinyl Chloride	U	5.2	U	26	U	2.6	U	0.65	U	5.2
1,1-Dichloroethylene	U	8.0	U	40	U	4.0	U	1.0	U	8.0
t-1,2-Dichloroethylene	76	8.0	300	40	46	4.0	2.0	1.0	270	8.0
cis-1,2-Dichloroethylene	3400	8.0	5500	40	130	4.0	6.6	1.0	250	8.0
Trichloroethylene	62000	270	230000	540	37000	54	6500	54	52000	270
Tetrachloroethylene	470	14	2500	68	110	6.8	2700	68	U	110

Table 1.1b (cont) Resulst of the Analysis for VOC (µg/m^3) in Air
WA # 0-362 Carter Carburetor Site

Method : TO-15

Sample Number	0-362-0021		0-362-0023		0-362-0028	
Sample Location	B8-24-SG		A5-24-SG		E12-24-SG	
Analyte	Result µg/m^3	RL µg/m^3	Result µg/m^3	RL µg/m^3	Result µg/m^3	RL µg/m^3
Vinyl Chloride	U	26	U	26	U	2.6
1,1-Dichloroethylene	42	40	U	40	U	4.0
t-1,2-Dichloroethylene	720	40	75	40	12	4.0
cis-1,2-Dichloroethylene	41000	800	2100	40	160	4.0
Trichloroethylene	570000	1100	150000	270	19000	54
Tetrachloroethylene	1100	68	1100	68	2300	6.8

Table 1.1b (cont) Resulst of the Analysis for VOC (µg/m^3) in Air
WA # 0-362 Carter Carburetor Site

Method : TO-15

Sample Number	MBLK-124258		0-362-0016	
Sample Location	09/26/08		E7-24-SG	
Analyte	Result µg/m^3	RL µg/m^3	Result ug/m3	RL ug/m3
Vinyl Chloride	U	0.13	U	0.13
1,1-Dichloroethylene	U	0.20	U	0.20
t-1,2-Dichloroethylene	U	0.20	2.9	0.20
cis-1,2-Dichloroethylene	U	0.20	54	0.20
Trichloroethylene	U	0.27	1200	5.4
Tetrachloroethylene	U	0.34	1.1	0.34

Table 2.1 Results of the BS Analysis for VOC in Air
WA # 0-362 Carter Carburetor Site

Sample Number: BS-85973 09/23/08

Analyte	BS Spike ppbv	BS Recovered ppbv	% Recovery	QC Limits % Recovery
Vinyl Chloride	5.0	4.8	96	70-130
1,1-Dichloroethylene	5.0	5.4	108	70-130
t-1,2-Dichloroethylene	5.0	4.8	96	70-130
cis-1,2-Dichloroethylene	5.0	4.8	95	70-130
Trichloroethylene	5.0	4.9	99	70-130
Tetrachloroethylene	5.0	5.3	105	70-130

Sample Number: BS-85961 09/24/08

Analyte	BS Spike ppbv	BS Recovered ppbv	% Recovery	QC Limits % Recovery
Vinyl Chloride	5.0	4.8	96	70-130
1,1-Dichloroethylene	5.0	5.7	115	70-130
t-1,2-Dichloroethylene	5.0	4.5	91	70-130
cis-1,2-Dichloroethylene	5.0	4.6	92	70-130
Trichloroethylene	5.0	4.9	98	70-130
Tetrachloroethylene	5.0	5.2	103	70-130

Sample Number: BS-85970 09/25/08

Analyte	BS Spike ppbv	BS Recovered ppbv	% Recovery	QC Limits % Recovery
Vinyl Chloride	5.0	5.0	99	70-130
1,1-Dichloroethylene	5.0	5.6	111	70-130
t-1,2-Dichloroethylene	5.0	4.9	98	70-130
cis-1,2-Dichloroethylene	5.0	4.9	99	70-130
Trichloroethylene	5.0	5.0	101	70-130
Tetrachloroethylene	5.0	5.3	107	70-130

Sample Number: BS-86062 09/26/08

Analyte	BS Spike ppbv	BS Recovered ppbv	% Recovery	QC Limits % Recovery
Vinyl Chloride	5.0	4.8	96	70-130
1,1-Dichloroethylene	5.0	5.6	113	70-130
t-1,2-Dichloroethylene	5.0	4.7	94	70-130
cis-1,2-Dichloroethylene	5.0	4.7	93	70-130
Trichloroethylene	5.0	5.1	102	70-130
Tetrachloroethylene	5.0	5.2	105	70-130

Table 2.2 Results of the Duplicate Analysis for VOC in Air
WA # 0-362 Carter Carburetor Site

Sample Number: 0-362-0006
Sample Location H4-24-SG

Analyte	Initial Analysis ppbv	Duplicate Analysis ppbv	% RPD	QC Limits % RPD
Vinyl Chloride	U	U	NC	25
1,1-Dichloroethylene	U	U	NC	25
t-1,2-Dichloroethylene	U	U	NC	25
cis-1,2-Dichloroethylene	U	U	NC	25
Trichloroethylene	2.6	2.6	0	25
Tetrachloroethylene	2.4	2.4	0	25

Sample Number: 0-362-0024
Sample Location B5-24-SG

Analyte	Initial Analysis ppbv	Duplicate Analysis ppbv	% RPD	QC Limits % RPD
Vinyl Chloride	U	U	NC	25
1,1-Dichloroethylene	U	U	NC	25
t-1,2-Dichloroethylene	0.22	U	NC	25
cis-1,2-Dichloroethylene	93	88	6	25
Trichloroethylene	210	210	0	25
Tetrachloroethylene	46	46	0	25

Lockheed Martin
Response Engineering Analytical Contract
2890 Woodbridge Avenue Building 209 Annex
Edison, NJ 08837-3679
Telephone 732-321-4200 Facsimile 732-494-4021

LOCKHEED MARTIN

Contest Analytical
173 Shaker Road
East Longmeadow, MA 1028-5602

Attn: Tim Kelly

September 5, 2008

As per Lockheed Martin / REAC Value Contract 46032329 for Project 0-362, please analyze samples according to the following parameters:

Analysis/Method	Matrix	# of samples
VOA/TO-15 SIM See attached compound list	Summa	30

Samples are expected to arrive at your laboratory the on September 18, 2008. Preliminary sample and QC result tables plus a signed copy of our Chain of Custody must be sent to REAC 10 business days after receipt of the samples. The complete data package is due 15 business days after receipt of the samples. The complete data package must include all items on the deliverables checklist. **The laboratory must provide documentation for individual summa canister and flow controller certification.**

All sample and QC results must be summarized in a tab delimited file diskette deliverable. Units must be in ppbv and ug/m3 in the electronic deliverable. See checklist for EDD field needed.

All summa canisters and 24hr preset orifices must arrive at REAC by September 11, 2008. The flow controllers should have 1/4 inch fittings.

Please submit all reports concerning this project to **John Johnson at (732) 321-4248 or john.m.johnson@lmco.com.** Any contractual question, please call Joe Rosenberger (732) 321-4215.

Sincerely,

Vinod Kansal
Analytical Section Leader
Lockheed Martin / REAC Project

VK:jj Attachments

cc. R. Singhvi
D. Mickunas
0362\non\mem\0809\sub\0362Con
V. Kansal
Subcontracting File
J. Soroka
J. Rosenberger
D. McCall

VOC Compound List for Project 0362

	Requested Reporting Limit ppbv
Vinyl Chloride	0.070
cis 1,2-Dichloroethene	0.070
Trichloroethene (TCE)	0.070
Tetrachloroethene (PCE)	0.070
1,1-Dichloroethene (1,1-DCE)	0.070
trans-1,2-Dichloroethene	0.070

Reporting limit should be after normal dilution between 1-2x

ERT
REAC, Edison, NJ
EPA Contract Number: EP-C-04-032
(732) 321-4200

CHAIN OF CUSTODY RECORD
Site #: 0-362
Contact Name: John Johnson
Contact Phone: 732-321-4248

L3MT-19864

No: 0-362-09/18/08-0003

Lab: Con-test Analytical Laboratory
Lab Phone: 413-525-2332

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	SUMMA #	OrificeID	Start Pressure	Stop Pressure
0883381 57	0-362-0028	E12-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1664	3090	-29.5	-2.1
58	0-362-0030	Trip	VOCs	Air	9/18/2008	1	Summa Canister	1322		-30	-30

QC by Jm

Special Instructions: Analyze the 6-compound Target Compound List by EPA Method TO-15.
Note: Sample ending -0028 may contain low ppm levels.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
2/Analysis	[signature]	9/18/08	[signature]	9/22/08	0942						

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ERT
REAC, Edison, NJ
EPA Contract Number: EP-C-04-032
(732) 321-4200

CHAIN OF CUSTODY RECORD
Site #: 0-362
Contact Name: John Johnson
Contact Phone: 732-321-4248

LAMT-19864

No: 0-362-09/18/08-0004

Lab: Con-test Analytical Laboratory
Lab Phone: 413-525-2332

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	SUMMA #	OrificeID	Start Pressure	Stop Pressure
58 59	0-362-0016	E7-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1157	3312	-29	-0.1
60	0-362-0017	D7-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1159	3193	-29.5	-7.9
61	0-362-0018	E3-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1009	3356	-29.5	-10.7
62	0-362-0019	D1-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1059	3290	-29	-7.5

OK. by Jim

Special Instructions: Analyze the 6-compound Target Compound List by EPA Method TO-15.
Note: All four samples may contain low ppm levels.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All analysis		9/18/08		9/22/08	1947						

LIMT-19864

(6)

ERT
REAC, Edison, NJ
EPA Contract Number: EP-C-04-032
(732) 321-4200

CHAIN OF CUSTODY RECORD
Site #: 0-362
Contact Name: John Johnson
Contact Phone: 732-321-4248

No: 0-362-09/18/08-0005

Lab: Con-test Analytical Laboratory
Lab Phone: 413-525-2332

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	SUMMA #	OrificeID	Start Pressure	Stop Pressure
6B381 71	0-362-0001	F3-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1081	3015	-29.5	-9.2
72	0-362-0002	F2-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1657	3103	-29.5	-8.7
73	0-362-0014	Ambient	VOCs	Air	9/18/2008	1	Summa Canister	1756	3096	-29.5	-2.6
74	0-362-0029	Ambient	VOCs	Air	9/18/2008	1	Summa Canister	1051	3262	-29.5	-8.5

QC by JM

Special Instructions: Analyze the 6-compound Target Compound List by EPA Method TO-15.
Reporting limit 0.07 ppbv after normal dilution.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All/Analysis		9/18/08		9/22/08	0947						

0362-DAR-103008

016

Page 1 of 1

ERT
REAC, Edison, NJ
EPA Contract Number: EP-C-04-032
(732) 321-4200

CHAIN OF CUSTODY RECORD
Site #: 0-362
Contact Name: John Johnson
Contact Phone: 732-321-4248

LIMS-19864

No: 0-362-09/18/08-0006

Lab: Con-test Analytical Laboratory
Lab Phone: 413-525-2332

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	SUMMA #	OrificeID	Start Pressure	Stop Pressure
586381 79	0-362-0003	F1-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1811	3072	-29.5	-7.4
80	0-362-0004	G2-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1317	3359	-29.5	-8.4
81	0-362-0005	H1-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1100	3350	-29.5	-8.6
82	0-362-0006	H4-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1505	3068	-29.5	-5.4

QC by [illegible]

Special Instructions: Analyze the 6-compound Target Compound List by EPA Method TO-15. Reporting limit 0.07 ppbv after normal dilution.
Note: Sample ending -0004 may contain low ppm levels.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All/Analysis	[signature]	9/18/08	[signature]	9/22/08	0947						

Page 1 of 1

ERT
REAC, Edison, NJ
EPA Contract Number: EP-C-04-032
(732) 321-4200

CHAIN OF CUSTODY RECORD
Site #: 0-362
Contact Name: John Johnson
Contact Phone: 732-321-4248

LIMT-19864

(5)

No: 0-362-09/18/08-0007

Lab: Con-test Analytical Laboratory
Lab Phone: 413-525-2332

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	SUMMA #	OrificeID	Start Pressure	Stop Pressure
88381 67	0-362-0007	E11-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1675	3013	-30	-7.3
68	0-362-0008	E10-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1723	3083	-29.5	-10
69	0-362-0009	D10-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1849	3357	-29.5	-6.4
70	0-362-0010	E9-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1045	3065	-29	-0.5

QC by [illegible]

Special Instructions: Analyze the 6-compound Target Compound List by EPA Method TO-15.
Note: All four samples may contain low ppm levels.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Air/Analysis	[signature]	9/18/08	[signature]	9/22/08	0947						

0362-DAR-103008

Page 1 of 1

ERT
REAC, Edison, NJ
EPA Contract Number: EP-C-04-032
(732) 321-4200

CHAIN OF CUSTODY RECORD
Site #: 0-362
Contact Name: John Johnson
Contact Phone: 732-321-4248

LIMS - 19864

(7)

No: 0-362-09/18/08-0008

Lab: Con-test Analytical Laboratory
Lab Phone: 413-525-2332

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	SUMMA #	OrificeID	Start Pressure	Stop Pressure
8B35 75	0-362-0020	C2-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1804	3255	-29.5	-5.8
76	0-362-0025	D4-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1453	3043	-29.5	-10.7
77	0-362-0026	B11-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1747	3091	-29	-6.9
78	0-362-0027	C11-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1613	3098	-29.5	-7.1

QC by [illegible]

Special Instructions: Analyze the 6-compound Target Compound List by EPA Method TO-15. Reporting limit 0.07 ppbv after normal dilution.
Note: Sample ending -0027 may contain low ppm levels.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
MC/Analysis	[signature]	9/18/08	[signature]	9/22/08	0947						

018

(4)

Page 1 of 1

ERT
REAC, Edison, NJ
EPA Contract Number: EP-C-04-032
(732) 321-4200

CHAIN OF CUSTODY RECORD
Site #: 0-362
Contact Name: John Johnson
Contact Phone: 732-321-4248

LSMT-19864 ✓

No: 0-362-09/18/08-0009

Lab: Con-test Analytical Laboratory
Lab Phone: 413-525-2332

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	SUMMA #	OrificeID	Start Pressure	Stop Pressure
0883381 63	0-362-0021	B8-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1739	3060	-29.5	-5.7
64	0-362-0022	A8-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1005	3093	-29.5	-26.4
65	0-362-0023	A5-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1856	3367	-29.5	-4.4
66	0-362-0024	B5-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1055	3349	-29.5	-4.7

QC by [illegible]

Special Instructions: Analyze the 6-compound Target Compound List by EPA Method TO-15. Reporting limit 0.07 ppbv after normal dilution.
Note: Samples ending -0021 and -0023 may contain ppm levels.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
QC/Analysis	[signature]	9/18/08	[signature]	9/22/08	0947						

Page 1 of 1

ERT
REAC, Edison, NJ
EPA Contract Number: EP-C-04-032
(732) 321-4200

CHAIN OF CUSTODY RECORD

Site #: 0-362
Contact Name: John Johnson
Contact Phone: 732-321-4248

LIMT-19864

No: 0-362-09/18/08-0010

Lab: Con-test Analytical Laboratory
Lab Phone: 413-525-2332

08B38

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	SUMMA #	OrificeID	Start Pressure	Stop Pressure
53	0-362-0011	B2-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1133	3355	-29.5	-0.4
54	0-362-0012	A2-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1053	3361	-29.5	-6.7
55	0-362-0013	C5-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1113	3344	-29.5	-6.4
56	0-362-0015	C8-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1886	3087	-29.5	-6.5

QC by [illegible]

Special Instructions: Analyze the 6-compound Target Compound List by EPA Method TO-15. Reporting limit 0.07 ppbv after normal dilution.
Note: Samples ending -0013 and -0015 may contain ppm levels.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Rel/Analysis	[illegible]	9/18/08	[illegible]	9/22/08	0947						

APPENDIX C

Chain of Custody Records and Sampling Worksheets

Carter Carburetor Site

Final Report

November 2008

ERT
REAC, Edison, NJ
EPA Contract Number: EP-C-04-032
(732) 321-4200

CHAIN OF CUSTODY RECORD
Site #: 0-362
Contact Name: Amy Dubois

No: 0-362-09/16/08-0001

Lab: TAGA Mobile Laboratory
Lab Phone: 609-865-6650

Lab #	Sample #	Location	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative
	51350	F4-SG	VOCs	Soil Gas	Grab	9/16/2008	08:58	1	1-liter Tedlar bag	None
	51351	G4-SG	VOCs	Soil Gas	Grab	9/16/2008	09:04	1	1-liter Tedlar bag	None
	51352	H4-SG	VOCs	Soil Gas	Grab	9/16/2008	09:08	1	1-liter Tedlar bag	None
	51353	H3-SG	VOCs	Soil Gas	Grab	9/16/2008	09:14	1	1-liter Tedlar bag	None
	51354	G3-SG	VOCs	Soil Gas	Grab	9/16/2008	09:21	1	1-liter Tedlar bag	None
	51355	H2-SG	VOCs	Soil Gas	Grab	9/16/2008	09:28	1	1-liter Tedlar bag	None
	51356	H1-SG	VOCs	Soil Gas	Grab	9/16/2008	09:35	1	1-liter Tedlar bag	None
	51357	G1-SG	VOCs	Soil Gas	Grab	9/16/2008	09:42	1	1-liter Tedlar bag	None
	51358	G2-SG	VOCs	Soil Gas	Grab	9/16/2008	09:48	1	1-liter Tedlar bag	None
	51359	F1-SG	VOCs	Soil Gas	Grab	9/16/2008	09:53	1	1-liter Tedlar bag	None
	51360	F2-SG	VOCs	Soil Gas	Grab	9/16/2008	09:58	1	1-liter Tedlar bag	None
	51362	A1-SG	VOCs	Soil Gas	Grab	9/16/2008	10:36	1	1-liter Tedlar bag	None
	51363	A2-SG	VOCs	Soil Gas	Grab	9/16/2008	10:41	1	1-liter Tedlar bag	None
	51364	B2-SG	VOCs	Soil Gas	Grab	9/16/2008	10:46	1	1-liter Tedlar bag	None
	51365	B3-SG	VOCs	Soil Gas	Grab	9/16/2008	11:43	1	1-liter Tedlar bag	None
	51366	A3-SG	VOCs	Soil Gas	Grab	9/16/2008	11:00	1	1-liter Tedlar bag	None
	51367	A4-SG	VOCs	Soil Gas	Grab	9/16/2008	14:14	1	1-liter Tedlar bag	None
	51368	C1-SG	VOCs	Soil Gas	Grab	9/16/2008	11:17	1	1-liter Tedlar bag	None
	51369	C3-SG	VOCs	Soil Gas	Grab	9/16/2008	11:25	1	1-liter Tedlar bag	None

Special Instructions: Sample #s 51381 and 51407 are to be re-sampled.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All Analysis	[signature]	9/16/08	[signature]	9/16/08	1830						

ERT
REAC, Edison, NJ
EPA Contract Number: EP-C-04-032
(732) 321-4200

CHAIN OF CUSTODY RECORD
Site #: 0-362
Contact Name: Amy Dubois

No: 0-362-09/16/08-0001

Lab: TAGA Mobile Laboratory
Lab Phone: 609-865-6650

Lab #	Sample #	Location	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative
	51370	E1-SG	VOCs	Soil Gas	Grab	9/16/2008	12:07	1	1-liter Tedlar bag	None
	51371	D1-SG	VOCs	Soil Gas	Grab	9/16/2008	12:15	1	1-liter Tedlar bag	None
	51372	D2-SG	VOCs	Soil Gas	Grab	9/16/2008	11:58	1	1-liter Tedlar bag	None
	51373	E3-SG	VOCs	Soil Gas	Grab	9/16/2008	12:25	1	1-liter Tedlar bag	None
	51374	D3-SG	VOCs	Soil Gas	Grab	9/16/2008	14:21	1	1-liter Tedlar bag	None
	51375	E4-SG	VOCs	Soil Gas	Grab	9/16/2008	12:43	1	1-liter Tedlar bag	None
	51376	D5-SG	VOCs	Soil Gas	Grab	9/16/2008	14:28	1	1-liter Tedlar bag	None
	51377	C6-SG	VOCs	Soil Gas	Grab	9/16/2008	14:33	1	1-liter Tedlar bag	None
	51378	C5-SG	VOCs	Soil Gas	Grab	9/16/2008	14:43	1	1-liter Tedlar bag	None
	51379	C7-SG	VOCs	Soil Gas	Grab	9/16/2008	14:48	1	1-liter Tedlar bag	None
	51380	B7-SG	VOCs	Soil Gas	Grab	9/16/2008	14:54	1	1-liter Tedlar bag	None
	51381	B8-SG	VOCs	Soil Gas	Grab	9/16/2008	14:57	1	1-liter Tedlar bag	None
	51383	B4-SG	VOCs	Soil Gas	Grab	9/16/2008	15:33	1	1-liter Tedlar bag	None
	51384	C4-SG	VOCs	Soil Gas	Grab	9/16/2008	15:36	1	1-liter Tedlar bag	None
	51386	B5-SG	VOCs	Soil Gas	Grab	9/16/2008	15:44	1	1-liter Tedlar bag	None
	51392	C8-SG	VOCs	Soil Gas	Grab	9/16/2008	08:58	1	1-liter Tedlar bag	None
	51394	B10-SG	VOCs	Soil Gas	Grab	9/16/2008	16:41	1	1-liter Tedlar bag	None
	51395	B11-SG	VOCs	Soil Gas	Grab	9/16/2008	16:45	1	1-liter Tedlar bag	None
	51398	C11-SG	VOCs	Soil Gas	Grab	9/16/2008	17:06	1	1-liter Tedlar bag	None

Special Instructions: Sample #s 51381 and 51407 are to be re-sampled.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All Analysis	[signature]	9/16/08	[signature]	9/16/08	1830						

ERT
REAC, Edison, NJ
EPA Contract Number: EP-C-04-032
(732) 321-4200

CHAIN OF CUSTODY RECORD
Site #: 0-362
Contact Name: Amy Dubois

No: 0-362-09/16/08-0001

Lab: TAGA Mobile Laboratory
Lab Phone: 609-865-6650

Lab #	Sample #	Location	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative
	51399	C12-SG	VOCs	Soil Gas	Grab	9/16/2008	17:11	1	1-liter Tedlar bag	None
	51400	C10-SG	VOCs	Soil Gas	Grab	9/16/2008	17:14	1	1-liter Tedlar bag	None
	51401	D12-SG	VOCs	Soil Gas	Grab	9/16/2008	17:24	1	1-liter Tedlar bag	None
	51402	E12-SG	VOCs	Soil Gas	Grab	9/16/2008	17:26	1	1-liter Tedlar bag	None
	51403	E11-SG	VOCs	Soil Gas	Grab	9/16/2008	17:29	1	1-liter Tedlar bag	None
	51405	D10-SG	VOCs	Soil Gas	Grab	9/16/2008	17:38	1	1-liter Tedlar bag	None
	51406	E10-SG	VOCs	Soil Gas	Grab	9/16/2008	18:05	1	1-liter Tedlar bag	None
	51407	E9-SG	VOCs	Soil Gas	Grab	9/16/2008	17:45	1	1-liter Tedlar bag	None
	51409	D8-SG	VOCs	Soil Gas	Grab	9/16/2008	17:52	1	1-liter Tedlar bag	None
	51410	E8-SG	VOCs	Soil Gas	Grab	9/16/2008	17:54	1	1-liter Tedlar bag	None
	51411	E7-SG	VOCs	Soil Gas	Grab	9/16/2008	17:58	1	1-liter Tedlar bag	None
	51412	D7-SG	VOCs	Soil Gas	Grab	9/16/2008	18:01	1	1-liter Tedlar bag	None

Special Instructions: Sample #s 51381 and 51407 are to be re-sampled.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
AL/Analysis		9/16/08		9/16/08	1830						

ERT
REAC, Edison, NJ
EPA Contract Number: EP-C-04-032
(732) 321-4200

CHAIN OF CUSTODY RECORD
Site #: 0-362
Contact Name: Amy Dubois

No: 0-362-09/17/08-0002

Lab: TAGA Mobile Laboratory
Lab Phone: 609-865-6650

Lab #	Sample #	Location	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative
	51413	F3-SG	VOCs	Soil Gas	Grab	9/17/2008	10:15	1	1-liter Tedlar bag	None
	51414	A5-SG	VOCs	Soil Gas	Grab	9/17/2008	10:38	1	1-liter Tedlar bag	None
	51415	A6-SG	VOCs	Soil Gas	Grab	9/17/2008	10:42	1	1-liter Tedlar bag	None
	51416	A7-SG	VOCs	Soil Gas	Grab	9/17/2008	10:47	1	1-liter Tedlar bag	None
	51417	A8-SG	VOCs	Soil Gas	Grab	9/17/2008	10:51	1	1-liter Tedlar bag	None
	51418	A9-SG	VOCs	Soil Gas	Grab	9/17/2008	10:56	1	1-liter Tedlar bag	None
	51419	A10-SG	VOCs	Soil Gas	Grab	9/17/2008	11:01	1	1-liter Tedlar bag	None
	51420	B12-SG	VOCs	Soil Gas	Grab	9/17/2008	11:07	1	1-liter Tedlar bag	None
	51421	C9-SG	VOCs	Soil Gas	Grab	9/17/2008	11:13	1	1-liter Tedlar bag	None
	51422	B9-SG	VOCs	Soil Gas	Grab	9/17/2008	11:23	1	1-liter Tedlar bag	None
	51423	B8-SG	VOCs	Soil Gas	Grab	9/17/2008	11:27	1	1-liter Tedlar bag	None
	51424	B6-SG	VOCs	Soil Gas	Grab	9/17/2008	1133	1	1-liter Tedlar bag	None
	51425	D6-SG	VOCs	Soil Gas	Grab	9/17/2008	11:44	1	1-liter Tedlar bag	None
	51426	E5-SG	VOCs	Soil Gas	Grab	9/17/2008	11:49	1	1-liter Tedlar bag	None
	51427	E9-SG	VOCs	Soil Gas	Grab	9/17/2008	11:55	1	1-liter Tedlar bag	None
	51429	C2-SG	VOCs	Soil Gas	Grab	9/17/2008	12:15	1	1-liter Tedlar bag	None
	51430	LA1-SG	VOCs	Soil Gas	Grab	9/17/2008	13:51	1	1-liter Tedlar bag	None
	51431	LA2-SG	VOCs	Soil Gas	Grab	9/17/2008	13:59	1	1-liter Tedlar bag	None
	51432	LA3-SG	VOCs	Soil Gas	Grab	9/17/2008	14:04	1	1-liter Tedlar bag	None

Special Instructions: Sample #s 51423 and 51427 are re-samples.	**SAMPLES TRANSFERRED FROM**
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
RL/Analysis	[signature]	9/17/08	[signature]	9/17/08	1600						

ERT
REAC, Edison, NJ
EPA Contract Number: EP-C-04-032
(732) 321-4200

CHAIN OF CUSTODY RECORD
Site #: 0-362
Contact Name: Amy Dubois

No: 0-362-09/17/08-0002

Lab: TAGA Mobile Laboratory
Lab Phone: 609-865-6650

Lab #	Sample #	Location	Analyses	Matrix	Collection Method	Collected	Sample Time	Numb Cont	Container	Preservative
	51433	LA4-SG	VOCs	Soil Gas	Grab	9/17/2008	14:12	1	1-liter Tedlar bag	None
	51434	LA5-SG	VOCs	Soil Gas	Grab	9/17/2008	14:17	1	1-liter Tedlar bag	None
	51435	LB4-SG	VOCs	Soil Gas	Grab	9/17/2008	14:24	1	1-liter Tedlar bag	None
	51436	LB3-SG	VOCs	Soil Gas	Grab	9/17/2008	14:32	1	1-liter Tedlar bag	None
	51437	LB2-SG	VOCs	Soil Gas	Grab	9/17/2008	14:37	1	1-liter Tedlar bag	None
	51438	LB1-SG	VOCs	Soil Gas	Grab	9/17/2008	14:43	1	1-liter Tedlar bag	None
	51440	LC2-SG	VOCs	Soil Gas	Grab	9/17/2008	14:57	1	1-liter Tedlar bag	None
	51441	LC3-SG	VOCs	Soil Gas	Grab	9/17/2008	15:05	1	1-liter Tedlar bag	None
	51442	LC4-SG	VOCs	Soil Gas	Grab	9/17/2008	15:14	1	1-liter Tedlar bag	None

Special Instructions: Sample #s 51423 and 51427 are re-samples.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All Analysis	[signature]	9/17/08	[signature]	9/17/08	1600						

ERT
REAC, Edison, NJ
EPA Contract Number: EP-C-04-032
(732) 321-4200

CHAIN OF CUSTODY RECORD
Site #: 0-362
Contact Name: John Johnson
Contact Phone: 732-321-4248

L3MT-19864

No: 0-362-09/18/08-0003

Lab: Con-test Analytical Laboratory
Lab Phone: 413-525-2332

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	SUMMA #	OrificeID	Start Pressure	Stop Pressure
0883381 57	0-362-0028	E12-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1664	3090	-29.5	-2.1
58	0-362-0030	Trip	VOCs	Air	9/18/2008	1	Summa Canister	1322		-30	-30

QC by Jm

Special Instructions: Analyze the 6-compound Target Compound List by EPA Method TO-15.
Note: Sample ending -0028 may contain low ppm levels.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
2/Analysis	[signature]	9/18/08	[signature]	9/22/08	0942						

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ERT
REAC, Edison, NJ
EPA Contract Number: EP-C-04-032
(732) 321-4200

CHAIN OF CUSTODY RECORD
Site #: 0-362
Contact Name: John Johnson
Contact Phone: 732-321-4248

LAMT-19864

No: 0-362-09/18/08-0004

Lab: Con-test Analytical Laboratory
Lab Phone: 413-525-2332

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	SUMMA #	OrificeID	Start Pressure	Stop Pressure
58 59	0-362-0016	E7-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1157	3312	-29	-0.1
60	0-362-0017	D7-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1159	3193	-29.5	-7.9
61	0-362-0018	E3-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1009	3356	-29.5	-10.7
62	0-362-0019	D1-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1059	3290	-29	-7.5

OK. by Jim

Special Instructions: Analyze the 6-compound Target Compound List by EPA Method TO-15.
Note: All four samples may contain low ppm levels.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All analysis		9/18/08		9/22/08	1947						

LIMT-19864

(6)

ERT
REAC, Edison, NJ
EPA Contract Number: EP-C-04-032
(732) 321-4200

CHAIN OF CUSTODY RECORD
Site #: 0-362
Contact Name: John Johnson
Contact Phone: 732-321-4248

No: 0-362-09/18/08-0005

Lab: Con-test Analytical Laboratory
Lab Phone: 413-525-2332

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	SUMMA #	OrificeID	Start Pressure	Stop Pressure
6B381 71	0-362-0001	F3-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1081	3015	-29.5	-9.2
72	0-362-0002	F2-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1657	3103	-29.5	-8.7
73	0-362-0014	Ambient	VOCs	Air	9/18/2008	1	Summa Canister	1756	3096	-29.5	-2.6
74	0-362-0029	Ambient	VOCs	Air	9/18/2008	1	Summa Canister	1051	3262	-29.5	-8.5

QC by JM

Special Instructions: Analyze the 6-compound Target Compound List by EPA Method TO-15.
Reporting limit 0.07 ppbv after normal dilution.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All/Analysis		9/18/08		9/22/08	0947						

0362-DAR-103008

016

Page 1 of 1

ERT
REAC, Edison, NJ
EPA Contract Number: EP-C-04-032
(732) 321-4200

CHAIN OF CUSTODY RECORD
Site #: 0-362
Contact Name: John Johnson
Contact Phone: 732-321-4248

LIMS-19864

No: 0-362-09/18/08-0006

Lab: Con-test Analytical Laboratory
Lab Phone: 413-525-2332

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	SUMMA #	OrificeID	Start Pressure	Stop Pressure
586381 79	0-362-0003	F1-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1811	3072	-29.5	-7.4
80	0-362-0004	G2-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1317	3359	-29.5	-8.4
81	0-362-0005	H1-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1100	3350	-29.5	-8.6
82	0-362-0006	H4-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1505	3068	-29.5	-5.4

QC by [illegible]

Special Instructions: Analyze the 6-compound Target Compound List by EPA Method TO-15. Reporting limit 0.07 ppbv after normal dilution.
Note: Sample ending -0004 may contain low ppm levels.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All/Analysis	[signature]	9/18/08	[signature]	9/22/08	0947						

Page 1 of 1

ERT
REAC, Edison, NJ
EPA Contract Number: EP-C-04-032
(732) 321-4200

CHAIN OF CUSTODY RECORD
Site #: 0-362
Contact Name: John Johnson
Contact Phone: 732-321-4248

LIMT-19864

(5)

No: 0-362-09/18/08-0007

Lab: Con-test Analytical Laboratory
Lab Phone: 413-525-2332

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	SUMMA #	OrificeID	Start Pressure	Stop Pressure
88381 67	0-362-0007	E11-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1675	3013	-30	-7.3
68	0-362-0008	E10-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1723	3083	-29.5	-10
69	0-362-0009	D10-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1849	3357	-29.5	-6.4
70	0-362-0010	E9-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1045	3065	-29	-0.5

QC by [illegible]

Special Instructions: Analyze the 6-compound Target Compound List by EPA Method TO-15.
Note: All four samples may contain low ppm levels.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Air/Analysis	[signature]	9/18/08	[signature]	9/22/08	0947						

0362-DAR-103008

Page 1 of 1

ERT
REAC, Edison, NJ
EPA Contract Number: EP-C-04-032
(732) 321-4200

CHAIN OF CUSTODY RECORD
Site #: 0-362
Contact Name: John Johnson
Contact Phone: 732-321-4248

LIMS - 19864

(7)

No: 0-362-09/18/08-0008

Lab: Con-test Analytical Laboratory
Lab Phone: 413-525-2332

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	SUMMA #	OrificeID	Start Pressure	Stop Pressure
8B35 75	0-362-0020	C2-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1804	3255	-29.5	-5.8
76	0-362-0025	D4-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1453	3043	-29.5	-10.7
77	0-362-0026	B11-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1747	3091	-29	-6.9
78	0-362-0027	C11-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1613	3098	-29.5	-7.1

QC by [illegible]

Special Instructions: Analyze the 6-compound Target Compound List by EPA Method TO-15. Reporting limit 0.07 ppbv after normal dilution.
Note: Sample ending -0027 may contain low ppm levels.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
MC/Analysis	[signature]	9/18/08	[signature]	9/22/08	0947						

018

(4)

Page 1 of 1

ERT
REAC, Edison, NJ
EPA Contract Number: EP-C-04-032
(732) 321-4200

CHAIN OF CUSTODY RECORD
Site #: 0-362
Contact Name: John Johnson
Contact Phone: 732-321-4248

LSMT-19864 ✓

No: 0-362-09/18/08-0009

Lab: Con-test Analytical Laboratory
Lab Phone: 413-525-2332

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	SUMMA #	OrificeID	Start Pressure	Stop Pressure
0883381 63	0-362-0021	B8-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1739	3060	-29.5	-5.7
64	0-362-0022	A8-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1005	3093	-29.5	-26.4
65	0-362-0023	A5-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1856	3367	-29.5	-4.4
66	0-362-0024	B5-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1055	3349	-29.5	-4.7

QC by [illegible]

Special Instructions: Analyze the 6-compound Target Compound List by EPA Method TO-15. Reporting limit 0.07 ppbv after normal dilution.
Note: Samples ending -0021 and -0023 may contain ppm levels.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
QC/Analysis	[signature]	9/18/08	[signature]	9/22/08	0947						

Page 1 of 1

ERT
REAC, Edison, NJ
EPA Contract Number: EP-C-04-032
(732) 321-4200

CHAIN OF CUSTODY RECORD

Site #: 0-362
Contact Name: John Johnson
Contact Phone: 732-321-4248

LIMT-19864

No: 0-362-09/18/08-0010

Lab: Con-test Analytical Laboratory
Lab Phone: 413-525-2332

08B38

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	SUMMA #	OrificeID	Start Pressure	Stop Pressure
53	0-362-0011	B2-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1133	3355	-29.5	-0.4
54	0-362-0012	A2-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1053	3361	-29.5	-6.7
55	0-362-0013	C5-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1113	3344	-29.5	-6.4
56	0-362-0015	C8-24-SG	VOCs	Soil Gas	9/18/2008	1	Summa Canister	1886	3087	-29.5	-6.5

QC by [illegible]

Special Instructions: Analyze the 6-compound Target Compound List by EPA Method TO-15. Reporting limit 0.07 ppbv after normal dilution.
Note: Samples ending -0013 and -0015 may contain ppm levels.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Rel/Analysis	[illegible]	9/18/08	[illegible]	9/22/08	0947						

EPA/Environmental Response Team
Response Engineering Analytical Contract
Tedlar Bag Sampling Work Sheet
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-C-04-032

Site: Carter Carburetor

WA#: 0-362

Sampler: DuBois / Weeks

U.S. EPA/ERTC WAM: Mickunas

Date: 9/16 /2008

REAC Task Leader: McCall

Sample #	Location	Time	Tedlar Bag Analysis/Method	Approximate Well Depth	Sample Volume (Liters)
51350	F4-SG *	0858	GC/MS Loop Injection Method	> 10"	1 (L)
51351	G4-SG	0904			
51352	H4-SG	0908			
51353	H3-SG	0914			
51354	G3-SG	0921			
51355	H2-SG	0928			
51356	H1-SG	0935			
51357	G1-SG	0942			
51358	G2-SG	0948			
51359	F1-SG	0953			
51360	F2-SG	0958			
51361	F3-SG	1004	Re-Sampled 9/17/08		
51362	A1-SG	1036			
51363	A2-SG	1041			

Comments

A1-SG = bldg

A1-LOT-SG = outside

* F4 - valve open overnight

EPA/Environmental Response Team
Response Engineering Analytical Contract
Tedlar Bag Sampling Work Sheet
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-C-04-032

Site: Carter Carburetor

WA#: 0-362

Sampler: Weeks

U.S. EPA/ERTC WAM: Mickunas

Date: 9/16/2008

REAC Task Leader: McCall

Sample #	Location	Time	Tedlar Bag Analysis/Method	Approximate Well Depth	Sample Volume (Liters)
51364	B2-SG	1046	GC/MS Loop Injection Method	>10"	1 L
51365	B3-SG	~~1053~~ 1143 re			
51366	A3-SG	1100			
51367	A4-SG	~~1108~~ 1419 re			
51368	C1-SG	1117			
51369	C3-SG	1125			
51370	E1-SG	~~1130~~ 1207 re			
51371	D1-SG	~~1150~~ 1215 re			
51372	D2-SG	1158			
51373	E3-SG	1225			
51374	D3-SG	~~1232~~ 1421 re			
51375	E4-SG	1243 freezer box			
51376	D5-SG	1428			
51377	C6-SG	1433			

Comments roll door near C1 - outside road closed + fenced - ambient?

SKC bag lot 27919 - many bag failures

B3 - resampled due to ~~loss of sample in transit~~ bag failure

D1, E1, A4, D3

EPA/Environmental Response Team
Response Engineering Analytical Contract
Tedlar Bag Sampling Work Sheet
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-C-04-032

Site: Carter Carburetor

WA#: 0-362

Sampler: Weeks

U.S. EPA/ERTC WAM: Mickunas

Date: 9/16/2008

REAC Task Leader: McCall

Sample #	Location	Time	Tedlar Bag Analysis/Method	Approximate Well Depth	Sample Volume (Liters)
51378	C5-SG	1443	GC/MS Loop Injection Method	>10"	1 L
51379	C7-SG	1448			
51380	B7-SG	1454			
51381	B8-SG	1457			
~~51382~~	C6-SG	no sample			0 L
51383	B4-SG	1533			1 L
51384	C4-SG	1536			
51385	D4-SG	no sample			0 L
51386	B5-SG	1544			1 L
51387	A5-SG	~~1550~~ 1601	Re-Sampled	9/17/08	
51388	A6-SG	1555			
51389	A8-SG	1611			
51390	A9-SG	1615			
~~51391~~	~~B8-SG~~	~~1620~~	collected 2x by accident - not a sample. no analysis		

Comments C5 - wetter today (top of slab)

resampled A5 due to bag failure

EPA/Environmental Response Team
Response Engineering Analytical Contract
Tedlar Bag Sampling Work Sheet
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-C-04-032

Site: Carter Carburetor

WA#: 0-362

Sampler: Weeks

U.S. EPA/ERTC WAM: Mickunas

Date: 9/16/2008

REAC Task Leader: McCall

Sample #	Location	Time	Tedlar Bag Analysis/Method	Approximate Well Depth	Sample Volume (Liters)
51392	C8-SG	1626	GC/MS Loop Injection Method	>10'	1 L
51393	C9-SG	1632	Re-Sampled	9/17/08	
51394	B10-SG	1641			
51395	B11-SG	1645			
51396	A10-SG	1650	Re-Sampled	9/17/08	
51397	B12-SG	1655	↓	↓	
51398	C11-SG	1706			
51399	C12-SG	1711			
51400	C10-SG	1714			
51401	D12-SG	1724			
51402	E12-SG	1726			
51403	E11-SG	1729			
51404	D11-SG	~~1731~~	no sample		~~1 L~~
5105	D10-SG	1738			

Comments

EPA/Environmental Response Team
Response Engineering Analytical Contract
Tedlar Bag Sampling Work Sheet
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-C-04-032

Site: Carter Carburetor

WA#: 0-362

Sampler: Weeks

U.S. EPA/ERTC WAM: Mickunas

Date: 9/16/2008

REAC Task Leader: McCall

Sample #	Location	Time	Tedlar Bag Analysis/Method	Approximate Well Depth	Sample Volume (Liters)
51406	E10-SG	~~1742~~ 1805	GC/MS Loop Injection Method	>10"	12
51407	E9-SG	1745			
~~51408~~	D9-SG	~~1750~~	No sample		
51409	D8-SG	1752			
51410	E8-SG	1754			
51411	E7-SG	1758			
51412	D7-SG	1801			
4 refusal locations: D4, E6, D9, D11					
added 6 valves at previously wet locations:					
	E2, E5, B6, D6, A7, B9				
2 locations still wet: B1, C2					
1 locn needs resample due to bag failure: F3					
* try to get valve on C2					

Comments
resampled E10 due to bag failure

EPA/Environmental Response Team
Response Engineering Analytical Contract
Tedlar Bag Sampling Work Sheet
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-C-04-032

Response Engineering and Analytical Contract

Site: Carter Carburetor

WA#: 0-362

Sampler:

U.S. EPA/ERTC WAM: Mickunas

Date: 9/17/2008

REAC Task Leader: McCall

Sample #	Location	Time	Tedlar Bag Analysis/Method	Approximate Well Depth	Sample Volume (Liters)
51413	F3-SG	1015	GC/MS Loop Injection Method	> 10"	1L
51414	A5-SG	1038			
51415	A6-SG	1042			
51416	A7-SG	1047			
51417	A8-SG	1051			
51418	A9-SG	1056			
51419	A10-SG	1101			
51420	B12-SG	1107			
51421	C9-SG	1113			
51422	B9-SG*	1123 ~~1129~~ AD			
51423	B8-SG	1127			
51424	B6-SG	1133			
51425	D6-SG	1144			
51426	E5-SG	1149			

Comments * previously wet - water around valve very hard to draw sample (slow)

EPA/Environmental Response Team
Response Engineering Analytical Contract
Tedlar Bag Sampling Work Sheet
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-C-04-032

Site: Carter Carburetor

WA#: 0-362

Sampler: Weeks

U.S. EPA/ERTC WAM: Mickunas

Date: 9/17/2008

REAC Task Leader: McCall

Sample #	Location	Time	Tedlar Bag Analysis/Method	Approximate Well Depth	Sample Volume (Liters)
51427	E9-SG	1155	GC/MS Loop Injection Method		1L
~~51428~~	E2-SG	no sample			
51429	C2-SG*	1215			1L
51430	LA1-SG	1351		>10"	1L
51431	LA2-SG	1359		>10"	1L
51432	LA3-SG	1404		>10"	1L
51433	LA4-SG	1412		>10"	1L
51434	LA5-SG	1417		>10"	1L
51435	LB4-SG	1424		>10"	1L
51436	LB3-SG	1432		>10"	1L
51437	LB2-SG	1437		>10"	1L
51438	LB1-SG	1443		>10"	1L
51439	LC1-SG	~~1448 NO~~	~~SAMPLE~~	~~>10"~~	~~1L~~
51440	LC2-SG	1457		>10"	1L

Comments: * Still very wet - moved lots of water away from Tube

EPA/Environmental Response Team
Response Engineering Analytical Contract
Tedlar Bag Sampling Work Sheet
Lockheed Martin Corp., Edison, NJ
U.S. EPA Contract No. EP-C-04-032

Site: Carter Carburetor

WA#: 0-362

Sampler: WEEKS

U.S. EPA/ERTC WAM: Mickunas

Date: 9/17/2008

REAC Task Leader: McCall

Sample #	Location	Time	Tedlar Bag Analysis/Method	Approximate Well Depth	Sample Volume (Liters)
51441	LC3-SG	1505	GC/MS Loop Injection Method	> 10"	1L
51442	LC4-SG	1514		> 10"	1L

Comments

EPA/Environmental Response Team
Response Engineering Analytical Contract
SUMMA® Sampling Work Sheet

Lockheed Martin Corp., Edison, NJ
EPA Contract No. EP-C-04-032

Site: Carter Carb
WA#: 0-362
Sampler: Dubois
EPA/ERT WAM: Rutchmas
Date: 9/17/08
REAC Task Leader: McLall

Sample #	0-362-0001	0-362-0002	0-362-0003	0-362-0004	0-362-0005
Location	F3-24-SG	F2-24-SG	F1-24-SG	G2-24-SG	H1-24-SG
Summa #	1081	1657	1811	1317	1100
Orifice Used ?	Y / N	Y / N	Y / N	Y / N	Y / N
Orifice #	3015	3103	3072	3359	3350
Analysis/Method					
Date/Time (Start)	9/17 1456	1459	1501	1503	1505
Date/Time (Stop)	9/18 1442	1447	1450	1453	1456
Total Time					
Initial Pressure	29.5	29.5	29.5	29.5	29.5
Post Pressure	9.2	8.7	7.4	8.4	6.4
Flow Rate (Start)	2.8/2.9	2.8	3.0/3.0	3.0/3.1	3.2/3.2
Sample Volume					

MET Station on Site?: Y / N	Atmospheric Pressure (Local):	Ambient Sampling Temperature:

EPA/Environmental Response Team
Response Engineering Analytical Contract
SUMMA® Sampling Work Sheet

Lockheed Martin Corp., Edison, NJ
EPA Contract No. EP-C-04-032

Site: CC

WA#: 0-362

Sampler: [illegible]

EPA/ERT WAM: [illegible]

Date: 9/17/08

REAC Task Leader: ~~[illegible]~~ McCall

Sample #	0-362-0006	-0007	-0008	-0009	-0010
Location	H4-24-SG	E4-24-SG	E10-24-SG	D10-24-SG	E9-24-SG
Summa #	1505	1675	1723	1849	1085
Orifice Used ?	Y / N	Y / N	Y / N	Y / N	Y / N
Orifice #	3068	3013	3083	3357	3065
Analysis/Method					
Date/Time (Start)	9/17/08 1508	1525	1529	1531	1534
Date/Time (Stop)	9/18 1459	1510	1511	1528	1513
Total Time					
Initial Pressure	29.5	30	29.5	29.5	29
Post Pressure	5.4	7.3	10.0	6.4	0.5
Flow Rate (Start)	3.0/3.1	3.0	3.2	3.2	3.3
Sample Volume					

MET Station on Site?: Y / N	Atmospheric Pressure (Local):	Ambient Sampling Temperature:
	2nd in zone 31.2	47.2

EPA/Environmental Response Team
Response Engineering Analytical Contract
SUMMA® Sampling Work Sheet

Lockheed Martin Corp., Edison, NJ
EPA Contract No. EP-C-04-032

Site: CC

WA#: 0-362

Sampler:

EPA/ERT WAM:

Date: 9/12/08

REAC Task Leader:

Sample #	0-362-0011	-0012	-0013	-0014	-0015
Location	B2-24-SG	A2-24-SG	C5-24-SG	AMB-Courtyd	C8-24-SG
Summa #	1133	1053	1113	1756	1886
Orifice Used ?	Y / N	Y / N	Y / N	Y / N	Y / N
Orifice #	3355	3361	3344	3096	3087
Analysis/Method					
Date/Time (Start)	9/12/08 1549	1550	1556	1601	1603
Date/Time (Stop)	9/12/08 1602	1611	1555	1615	1551
Total Time					
Initial Pressure	29.5	29.5	29.5	29.5	29.5
Post Pressure	0.4	6.7	6.4	2.6	6.5
Flow Rate (Start)	3.8	3.1	3.1	3.1	3.1
Sample Volume					

MET Station on Site?: Y / N	Atmospheric Pressure (Local):	Ambient Sampling Temperature:

PCS B1, B2, B3, A4, A3, A2, A1

AMB, B4, C4, D4, B5 B6 B7 B8 B9 B10 B11 B12

A10 A9 A8 A7 A6 A5

EPA/Environmental Response Team
Response Engineering Analytical Contract
SUMMA® Sampling Work Sheet

Lockheed Martin Corp., Edison, NJ
EPA Contract No. EP-C-04-032

Site: QC

WA#: 0-362

Sampler: Wilfloy

EPA/ERT WAM:

Date:

REAC Task Leader:

Sample #	0-362-0016	-0017	-0018	-0019	-0020
Location	E7-24-SG	D7-24-SG	C3-24-SG	D1-24-SG	C2-24-SG
Summa #	1157	1159	1009	1059	1804
Orifice Used ?	Y / N	Y / N	Y / N	Y / N	Y / N
Orifice #	3312	3193	3356	3290	3255
Analysis/Method					
Date/Time (Start)	9/17/08 1537	1538	1543	1545	1548
Date/Time (Stop)	9/18 1517	1532	1522	1527	1602
Total Time					
Initial Pressure	29	29.5	29.5	29.0	29.5
Post Pressure	0.1	7.9	10.7	7.5	5.8
Flow Rate (Start)	3.0	2.9 / 2.9	2.9	2.9	2.9
Sample Volume					

MET Station on Site?: Y / N	Atmospheric Pressure (Local):	Ambient Sampling Temperature:
638		

EPA/Environmental Response Team
Response Engineering Analytical Contract
SUMMA® Sampling Work Sheet

Lockheed Martin Corp., Edison, NJ
EPA Contract No. EP-C-04-032

Site: CC

WA#: 0-362

Sampler:

EPA/ERT WAM:

Date: 9/17/08

REAC Task Leader:

Sample #	0-362-0021	-0022	-0023	-0024	-0025
Location	B8-24-SG	A8-24-SG	A5-24-SG	B5-24-SG	D4-24-SG
Summa #	1729	1005 *	1856	1055	1453
Orifice Used ?	Y / N	Y / N	Y / N	Y / N	Y / N
Orifice #	3060	3093	3367	3349	3043
Analysis/Method					
Date/Time (Start)	9/17/08 1605	1607	1609	1611	1613
Date/Time (Stop)	1616	1646	1644 ~~1613~~	1600	1621
Total Time					
Initial Pressure	29.5	29.5	29.5	29.5	29.5
Post Pressure	5.7	26.4	4.4	4.7	10.7
Flow Rate (Start)	3.1	3.2	3.0	3.3 / 3.2	3.1
Sample Volume					

MET Station on Site?: Y / N	Atmospheric Pressure (Local):	Ambient Sampling Temperature:

* noticed guage on summa read ~ 30" - checked both valve & summa open

EPA/Environmental Response Team
Response Engineering Analytical Contract
SUMMA® Sampling Work Sheet

Lockheed Martin Corp., Edison, NJ
EPA Contract No. EP-C-04-032

Site: OC

WA#: 0-362

Sampler:

EPA/ERT WAM:

Date: 9/17/08

REAC Task Leader:

Sample #	0-362-0026	-0027	-0028	-0029	-0030
Location	B11-24-SG	C11-24-SG	E12-24-SG	AMB roof	TRIP
Summa #	1747	1613	1664	1051	1322
Orifice Used ?	Y / N	Y / N	Y / N	Y / N	Y / N
Orifice #	3091	3098	3090	3262	—
Analysis/Method					
Date/Time (Start)	9/17/08 1621	1622	1624	1631	
Date/Time (Stop)	1637	1547	9/18/08 1506	1655	
Total Time					
Initial Pressure	-29	29.5	29.5	-29.5	-30
Post Pressure	6.9	7.1	2.1	-8.5	
Flow Rate (Start)	2.9 / 3.0	3.1	3.1	2.8	
Sample Volume					

MET Station on Site?: Y / N	Atmospheric Pressure (Local):	Ambient Sampling Temperature:

AMB roof
out door 4F2

P.C 1st
in ~~side~~ zone