Soil Vapor Survey - 2008

**Former Reilly Tar Site in
St. Louis Park, Minnesota**

STS Project 200802141

June 30, 2008

Prepared by:
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June 30, 2008

Mr. Nile Fellows
Project Manager
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155

Re: Former Reilly Tar Site Soil Vapor Survey - 2008; STS Project 200802141

Dear Mr. Fellows:

STS is pleased to present the results of the soil vapor survey conducted at the former Reilly Tar Site in St. Louis Park, Minnesota during June of 2008. The project scope of work was outlined in the STS Proposal 200800525 that was submitted to the Minnesota Pollution Control Agency (MPCA) on April 24, 2008. The work was authorized by the MPCA on April 30, 2008 (Contract Work Order SFST0823). All the project work, including preparation of this report, was completed by June 30, 2008. The only exception is that the subcontractor, W.L. Gore and Associates, Inc. (Gore), delivered the final report and documentation (included in Appendices B, C and D) by July 10, 2008. However, Gore provided STS with the preliminary report before June 30, 2008. This preliminary Gore report was sufficient to prepare this final report - no significant changes from the preliminary to the final Gore reports occurred that would change the content/conclusions and recommendations of this report.

1.0 Introduction
This investigation was conducted to address the issue of potential volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs) and polycyclic aromatic hydrocarbons (PAHs) soil vapor contamination near residential buildings at and around the former Reilly Tar Site, St. Louis Park, Minnesota (the Site). Several contaminants detected in soil and groundwater at the Site are characterized by a relatively high vapor pressure. Such contaminants can migrate at significant concentrations through the vadose zone as soil gas. The contaminants of concern (COCs) include the following: Acenaphthene, Acenaphthylene, Carbazole, Dibenzofuran, Fluorene, 2-Methyl Naphthalene, Naphthalene, Pyrene and Phenanthrene.

The soil vapor survey work was designed as a screen to evaluate the potential of these contaminants to intrude at significant concentrations into residential buildings present at the perimeter of the Site.

A total of 33 diffusional sampler modules were deployed in the field on June 5, 2008, at 33 locations designated in the Quality Assurance Project Plan (QAPP) (see Figure 1). All the deployed modules were retrieved on June 16-17, 2008 and shipped to Gore for analysis. The results of the analysis are presented in Table 1 and in Appendix B, Tables 1 and 2. Out of the 42 target compounds (or groups of compounds, like BTEX or TPH) analyzed for, 27 were detected at one or more probe locations. These COCs were detected at most of the sampling locations. The detected compounds include all the COCs, except for Carbazole and Dibenzofuran which were not included on the list of compounds analyzed. The list of compounds was included in the QAPP by reference and included in the bid materials (also by reference) submitted by Gore.

2.0 Updating the Quality Assurance Project Plan
The QAPP was developed for the soil vapor survey conducted in St. Louis Park in June 2007 (STS, 2007b) using the diffusional sampler technology. This QAPP was updated for use in the Reilly Tar Site Soil Vapor Survey, as this project was intended to utilize the same technology. The QAPP was developed to provide a complete set of protocols for the entirety of the project field work. It was developed following the Minnesota Pollution Control Agency's Draft Quality Assurance Project Plan Guidance issued on June 26, 2003. The U.S. Environmental Protection Agency (USEPA) requires a QAPP any time data is collected for use in making a decision.

Updating the QAPP document was completed after the subcontractor providing diffusional sampler's technology was selected (Gore), reviewed the draft QAPP and provided its input on May 31, 2008. The document specifies the sampling methodology, technology, locations, sampling depths, and field monitoring and laboratory methods to be used during the survey. STS submitted the finalized/updated QAPP to MPCA on June 2, 2008. The QAPP was approved by MPCA on June 2, 2008.

After the QAPP was updated and approved, all the project work was conducted following the content of that document. To the best of our knowledge, no divergence of project work from the contents of the QAPP took place.

The updated QAPP is included as Appendix A.

3.0 Development of the Request for Proposal, Administering the Bidding Process
STS developed a Request for Proposal (RFP) package after the objectives and scope of work for the project were established. The package included the following:

- Bid From
- Terms and Conditions
- Scope of Work
- MPCA's Subcontracting Unit Pricing Bid Sheet
- Qualifications Form

STS submitted the draft RFP to MPCA for approval on May 13, 2008. After the approval, on May 15, 2008, STS sent the RFP via e-mail to three vendors known to possess the required technology: Vista GeoScience, W.L. Gore & Associates, Inc., and Beacon Environmental Services, Inc.

After issuing the RFP, STS administered the bidding process in coordination with and on behalf of the MPCA. By the designated deadline of May 20, 2008, 3:00 PM, two contractors submitted their bids for providing the technology needed for conducting the Reilly Tar Superfund Site Soil Vapor Survey: W.L. Gore (proposal received on May 19, 2008, 1:00 PM) and Vista GeoScience (proposal received on May 20, 2008, 2:50 PM). Beacon Environmental Services, Inc. notified STS on May 20, 2008 that they would not be able to submit the proposal before the designated May 20, 2008 deadline.

Following is the comparison of the W.L. Gore and Vista GeoScience proposals.

Total price of services:
W.L. Gore: $8,665.00
Vista GeoScience: $7,340.00

Completeness of the proposal:
W.L. Gore: Complete
Vista GeoScience   Did not complete the Request for Bid Form, no authorized signature, no mention of capacity to test for SVOCs and PAHs (EPA Method 8270)

Quality Assurance Manual:
W.L. Gore: Provided
Vista GeoScience: Not provided

Manuals:
W.L. Gore: Provided
Vista GeoScience: Not provided

Documentation of experience:
W.L. Gore: Very thorough
Vista GeoScience: Limited

After considering both proposals and the STS summary and recommendations, MPCA decided to select W.L. Gore & Associates, Inc. (Gore) for providing the necessary technology, equipment and analysis.

The GORE™ Survey technology was reported in the USEPA "Environmental Technology Verification Report, Groundwater Sampling Technologies", W.L. Gore and Associates, Inc. GORE-SORBER® Water Quality Monitoring (EPA/600/R-00/091).

An abstract of this report can be found on the Interstate Technology Regulatory Council website: http://www.diffusionsampler.org/Admin/EventDetails/DocumentViewInfo.asp?DocID=308&Location= Library. Demonstration of this technology is presented in the USEPA Environmental Technology Verification Program's document posted on another website: http://www.diffusionsampler.org/Documents/epa-vs-scm-38_gore_sorber.pdf. The GORE™ technology has been utilized at over 3,000 sites in all 50 states and in many countries worldwide (http://www.gore.com/en_xx/products/ geochemical/environmental/ and http://www.gore.com/en_xx/products/geochemical/environmental/surveys_environmental_faq.html).

4.0 Field Work

On June 2, 2008, MPCA obtained the needed access agreements for STS to enter the property and perform the field work (samplers' deployment) from three entities: Oak Park Properties (7400 Oak Park Village Drive, St. Louis Park, MN 55426), Oak Park Village Associates, LLLP (7267-1/2 West Oak Park Village Drive, St. Louis Park, MN 55426) and the City of St. Louis Park (Cindy Walsh, Director of Parks and Recreation). MPCA did not receive an access agreement from Gassen Company (which is a management company for Park Condominium at 3300 and 3320 Louisiana Ave. S., St. Louis Park, MN 55426). Consequently probes P-22 through P-30 (see Figure 1) had to be moved from originally planed locations to outside of this property's boundaries. These location changes were approved by MPCA and included in the QAPP.

Beginning June 2, 2008, after the QAPP was approved by MPCA, STS started the process of utility clearance. STS deployed the passive diffusional samplers, GORE™ modules (the modules), at 33 locations designated in the QAPP (see Figure 1) on June 5, 2008. The modules were deployed with the use of an electrically powered, hand operated rotating hammer. The hammer was used to drill 3/4 inch to 1 inch diameter, 2-1/2 to 3 feet deep holes. The modules were placed in boreholes for 11 to 12 days, until June 16-17, 2008, when they were retrieved and shipped to Gore for analysis. Out of the 33 modules deployed, 33 were retrieved (a 100% recovery rate).

The modules' deployment and retrieval operations were conducted following procedures and protocols described in the approved QAPP (see Appendix A).

5.0 Laboratory Analysis and Report

The retrieved modules and the associated QA/QC modules (trip blanks and field blanks) were shipped to Gore, which received them on June 18, 2008. The modules were processed and analyzed as described in the Gore™ Surveys Final Report provided in Appendix B. The analyses were conducted with the use of gas chromatographs equipped with mass selective detectors, coupled with automated thermal desorption units.

Following the analysis and data processing, Gore provided a series of documents included in Appendices B, C and D. Appendix B includes the following:

- Gore™ Surveys Final Report
- Chain of custody and installation/retrieval log
- Analytical data table
- Stacked total ion chromatograms

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- Contour maps for three compounds identified for plotting by STS (in consultation with MPCA): Fluorene, 2-Methyl Naphthalene and Naphthalene

Appendix C is a disk which includes an electronic copy of the W.L. Gore and Associates QA/QC Deliverable Package.

Appendix D presents the methodology used to estimate soil gas concentrations based on mass of target compounds desorbed from the deployed and retrieved GORE™ Modules.

6.0 Review of the Survey Results and Analysis

The Gore report (included in Appendix B) provides two analytical data tables: one reporting the measured mass (in micrograms) of VOCs, SVOCs and PAHs that desorbed from the deployed and retrieved GORE™ Modules; the other table presents soil gas concentrations estimated from the adsorbed mass, modules' exposure time and assumptions about the soil properties. These concentrations were calculated following the methodology that is documented in Appendix D (Vapor Concentration Calculations) using default porosity values for dry sandy loam soil, 0.39 cm^3/cm^3 total porosity and 0.126 cm^3/cm^3 water filled porosity. This table with estimated concentrations is also presented in the main body of the STS report as Table 1.

Inspection of the contents of Table 1 reveals the following:

- No target compounds (VOCs, SVOCs, PAHs) were detected above the method detection limit on the trip blanks and the method blanks – thus, the analyte levels reported for the field-installed modules are likely to have originated from on-site sources.
- The results obtained for the four field duplicates (two from the industrial area and two from the residential area) are very similar.
- 27 out of the 42 target compounds were detected in at least one module.
- All contaminants of concern for the former Reilly Tar Site (Acenaphthene, Acenaphthylene, Fluorene, 2-Methyl Naphthalene, Naphthalene, Pyrene and Phenanthrene) were detected at most of the sampling locations.
- Several target compounds were detected at each of the 33 sampling locations.
- Total petroleum hydrocarbons (TPH) was the most ubiquitous group of target compounds detected – they were detected in modules deployed at all 33 locations (100% of the sampled locations).
- The following other analytes were also frequently detected: Acenaphthene (26 locations – 79% of the sampled sites), Benzene, Fluorantene, Pyrene (24 locations – 73% of the sampled sites) and Naphthalene (23 locations – 70% of the sampled sites).

The estimated soil gas concentrations were compared to Screening Levels (Table 1, Row No. 4). For most target compounds the Screening Level values used were the "Intrusion Screening Values x 100" (new values recommended by MPCA, June 2008 – factor 100 is to be used for sample areas outside of a building footprint). For some compounds (PAHs) for which there are no Intrusion Screening Values available, RfC x 100 values were used. RfC (Reference Concentrations) were taken from the USEPA's Johnson & Ettinger February 2004 Workbooks (http://www.epa.gov/oswer/riskassessment/airmodel/johnson_ettinger.htm).

In Row No. 7 of Table 1 are presented the calculated ratios of maximum estimated concentration over Screening Level. Inspection of the contents of Row No. 7 reveals that none of the estimated concentrations exceeded the corresponding Screening Level. The maximum estimated concentration of Naphthalene was the closest to the Screening Level, with the calculated ratio (maximum concentration over the Screening Level) equal to 0.83. Other compounds with significant estimated concentrations (the ratio 0.1 or greater) are: 1,3,5-Trimethylbenzene, 2-Methyl Naphthalene, 1,2,4-Trimethylbenzene, Fluorene, Ethylbenzene, Benzene and Acenaphthene.

The calculated concentrations of target compounds shown in Table 1 represent only a gross estimate and most likely are biased low due to the following factors:

- The modules installed in areas of heavier contamination may have come to equilibrium with the environment (no net mass gain after the point of equilibrium) before their retrieval (after more than 10 days). As the first equation provided in Appendix D shows, the shorter the exposure time needed to bring about that equilibrium the higher the calculated contaminant concentration (thus overestimating the needed exposure period results in underestimating the contaminant concentration in soil air).
- At shallow depths, soil gas mixes with ambient air, thus diluting the VOC vapor concentrations – this is especially the case with sandy soils, particularly when they are not capped by pavement or buildings.

Inspection of Gore generated figures of estimated soil gas concentrations for Fluorene, 2-Methyl Naphthalene and Naphthalene reveal the presence of hot spots (like around sampling locations P-21 and P-32). Because of limited coverage with sampling points, boundaries of these hot spots are not delineated.

7.0 Discussion
The results of this survey demonstrate that VOCs, SVOCs and PAHs are present in soil vapor throughout the surveyed area. Among the detected compounds are all the identified contaminants of concern (that were tested for) related to the operations of the former Reilly Tar Site: Acenaphthene, Acenaphthylene, Fluorene, 2-Methyl Naphthalene, Naphthalene, Pyrene and Phenanthrene. All these contaminants of concern were detected at most of the sampled 33 locations.

Chlorinated VOCs commonly present in the surrounding areas, 1,1,2,2-Tetrachloroethene, Trichloroethylene, cis-1,2-Dichloroethene and trans-1,2-Dichloroethene (STS, 2007a, 2007b, 2008; USEPA, 2008), are not present or are present at trace amounts at the former Reilly Tar Site.

The maximum estimated concentration of Naphthalene was the closest to the Screening Level, with the calculated ratio (maximum concentration over the Screening Level) equal to 0.83. Other compounds with significant estimated concentrations are: 1,3,5-Trimethylbenzene, 2-Methyl Naphthalene, 1,2,4-Trimethyl-benzene, Fluorene, Ethylbenzene, Benzene and Acenaphthene. Of particular concern is the detected significant presence of Naphthalene at sampling location P-21 – southeast corner of Oak Park Village Apartments and northeast of Park Condominium's property boundary.

Although the soil vapor concentrations estimated from the desorbed mass are all below the Screening Levels, these estimates are highly unreliable (see discussion in Section 6.0). The fact that soil vapors of contaminants of concern are consistently present throughout the surveyed area strongly indicates that they may also be present under residential buildings.

8.0 Recommendations
It is recommended that a follow-up soil vapor survey be conducted to collect soil vapor samples for direct measurement of contaminant concentrations in soil vapor. The purpose of such a survey would be to verify if the contaminants of concern commonly detected throughout the former Reilly Tar Site are present in shallow soil vapors at the Site at concentrations above the appropriate and applicable Screening Levels.

9.0 General Qualifications
The evaluations and opinions presented in this report were developed from consideration of the project area characteristics and interpretation of available data. STS' interpretation of available data is based on normally accepted reasonable engineering judgment. STS' opinions were made based upon STS' knowledge, experience and qualifications and represent STS' judgment.

STS professional services were performed in accordance with generally accepted engineering practices. This warranty is in lieu of other warranties, either expressed or implied. STS assumes no responsibility for data or interpretations made by others. STS assumes responsibility for the accuracy of the report's contents subject to what is stated elsewhere in this section but recommends that the report be used only for the purpose intended by

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If you have any questions regarding the contents of this report, or if we can be of further assistance to you, please do not hesitate to contact us at 763-315-6300.

Sincerely,

Peter A. Rzepecki, PhD Phg PG
Senior Project Scientist

Robert L. DeGroot, PG PE
Principal Engineer

PAR/dn
Encs.

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References

STS, 2007a. St. Louis Park Soil Vapor Survey Results Report. Prepared for the Minnesota Pollution Control Agency, STS Project 200605038, February 16, 2007.

STS, 2007b. St. Louis Park Soil Vapor and Groundwater Investigation. Report prepared for the Minnesota Pollution Control Agency, STS Project 200702018, September 19, 2007.

STS, 2008. Phase II Investigation of Edina and Hopkins Dry Cleaners Facilities. Prepared for the Minnesota Pollution Control Agency, STS Project 200705300, June 30, 2008.

USEPA, 2008. Highway 7 and Wooddale Avenue Soil Vapor Study (http://www.pca.state.mn.us/cleanup/soil-vapor.html)

Figures

Tables

Appendices

Figures

LEGEND

- P-#   PROBE LOCATION
- LOCATION GPS LOCATION

NOTE: AERIAL PHOTO BY MARK HURD INC.

SCALE IN FEET

0   100   200

N

Drawn:	TAK	6/20/2008
Checked:	PR	6/20/2008
Approved:	RLD	6/20/2008

REILLY TAR SITE SCREENING SOIL VAPOR SURVEY
PROBE LOCATION DIAGRAM
ST. LOUIS PARK, MINNESOTA

PROJECT NUMBER 200802141

FIGURE NUMBER 1

Fluorene
[µg/m^3]

1116.863
776.247
539.511
374.973
260.615
181.134
125.893
87.498
60.814
42.267
29.376
20.417
14.191
9.863
6.855
4.764
3.311
2.301
1.600
1.112
0.773

GORE ™ Surveys for Environmental Site Assessment

W.L. GORE & ASSOCIATES, INC.

GORE
Creative Technologies
Worldwide

100 CHESAPEAKE BOULEVARD
ELKTON, MD, USA 21921
USA
(410) 392-7600

STS Consultants, Maple Grove, MN

Reilly Tar, St. Louis Park, MN

Fluorene
Estimated Soil Gas Concentrations

Scale 1:1680

100   0   100   200   300

US survey foot

DATE DRAWN: 02 July 2008	DRAWN BY: JW	ORIG. CAD:	SITE CODE: EJF
REV. DATE:	REV. #:	PROJECT NUMBER: 13674768	

P-10
P-11
P-9
P-12
P-7
P-13
P-8
P-17
P-6
P-14
P-5
P-15
P-4
P-16
P-1
P-18
P-2
P-19 P-20 P-21
P-3
P-22
P-23
P-24
P-25
P-26
P-27
P-28
P-29
P-30
P-31
P-32
P-33

379.656	
95.878	
31.096	
12.713	
6.762	
4.652	
3.375	
2.495	
1.952	
1.498	
1.144	
0.936	
0.725	
0.514	
0.368	
0.270	
0.191	
0.118	
0.066	
0.025	
0.010	

2-Methylnaphthalene
[μg/m^3]

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2-Methylnaphthalene
Estimated Soil Gas Concentrations

Scale 1:1680

100   0   100   200   300

US survey foot

| DATE DRAWN: 02 July 2008 | DRAWN BY: JW | ORIG. CAD: | SITE CODE: EJF |
| REV. DATE: | REV. #: | PROJECT NUMBER: 13674768 | |

749.894
532.353
377.920
268.287
190.458
135.207
95.984
68.140
48.373
34.340
24.378
17.306
12.286
8.722
6.192
4.395
3.120
2.215
1.573
1.116
0.793

Naphthalene
[μg/m^3]

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Reilly Tar, St. Louis Park, MN

Naphthalene
Estimated Soil Gas Concentrations

DATE DRAWN: 02 July 2008	DRAWN BY: JW	ORIG. CAD:	SITE CODE: EJF
REV. DATE:	REV. #:	PROJECT NUMBER: 13674768	

Scale 1:1680

100   0   100   200   300

US survey foot

Tables

Table 1 - W.L. Gore and Associates – Estimated Soil Vapor Concentrations of Analyzed and Detected Compounds
Table 2 - GPS Waypoints of Vapor Pt and Orientation Locations for Reilly Tar Sampling in St. Louis Park, MN

TABLE 1 - GORE[TM] SURVEYS ANALYTICAL RESULTS
STS, MAPLE GROVE, MN
GORE STANDARD VOC/SVOC TARGET COMPOUNDS PLUS ADDITIONAL PAHs (A4)
ESTIMATED CONCENTRATIONS
REILLY TAR - ST. LOUIS PARK, MN
SITE EJF - PRODUCTION ORDER #13674768

Row Number	Date Analyzed	Field Sample Location No.	Lab. Sample No.	Total Petr. Hydorc.	Benzene + Toluene + Ethylbenzene + Xylenes	Benzene	Toluene	Ethylbenzene	m-,p-Xylene	o-Xylene	Undecane + Tridecane + Pentadecane	Undecane	Tridecane	Pentadecane	1,3,5-Trimethylbenzene + 1,2,4-Trimethylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	cis- & trans-1,2-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Combined PAHs	Naphthalene + 2-Methyl Naphthalene	Naphthalene	2-Methyl Naphthalene	Methyl t-butyl Ether	1,1,-Dichloroethene	1,1,-Dichloroethane	1,1,1-Trichloroethane	1,2,-Dichloroethane	Trichloroethylene	Octane
2				ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³
3			MDL [1] =	0.82		0.24	0.24	0.55	0.61	0.49		0.37	0.37	0.40		0.44	0.32		0.61	0.59			0.79	0.35	0.40	2.14	1.47	0.66	0.20	0.23	0.46
4			Screening Level (ug/m³) =	--	--	130	500000	400	10000	10000	--	--	--	--	--	700	600	--	6000	4000	--	--	900	7000	300000	20000	50000	100000	40	300	--
5			Screening Level Source [3,4] =			3	3	3	3	3						3	3		3	3			3	3	3	3	3	3	3	3	
6			Max. Estim. Conc. (ug/m³) =	1405.48	150.58	5.77	10.85	27.13	73.09	37.07	392.55	384.34	12.31	16.69	201.81	81.83	119.99	0.60	0.00	0.60	6854.69	1804.23	749.64	1054.59	0.00	0.00	0.00	0.00	0.00	0.24	0.94
7			Max. Estim. Conc. / Screening Level =	--	--	0.04	0.00	0.07	0.01	0.00	--	--	--	--	--	0.12	0.20	--	0.00	0.00	--	--	0.83	0.15	0.00	0.00	0.00	0.00	0.00	0.00	--
9	06/27/08	1	569698	108.23	9.35	0.72	1.23	1.11	4.31	1.98	2.31	1.13	0.38	0.80	4.56	3.59	0.97	nd	nd	nd	458.95	34.01	28.01	6.00	bdl	nd	nd	nd	nd	nd	nd
10	06/28/08	2	569697	12.11	1.71	nd	nd	nd	1.22	0.49	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	3.11	nd	nd	nd	bdl	nd	nd	nd	nd	nd	nd
11	06/28/08	3	569696	19.39	0.90	0.90	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	10.48	4.34	3.35	0.99	nd	nd	nd	nd	nd	nd	nd
12	06/28/08	4	569695	57.80	3.24	nd	0.98	0.55	1.22	0.49	1.15	0.37	0.37	0.40	0.77	0.45	0.32	0.00	nd	bdl	45.34	10.10	8.34	1.75	nd	nd	nd	nd	nd	nd	nd
13	06/27/08	5	569694	26.82	6.53	0.72	1.48	1.11	1.23	1.98	nd	nd	nd	nd	1.42	0.45	0.97	nd	nd	nd	167.41	32.76	23.22	9.54	bdl	nd	nd	nd	nd	nd	nd
14	06/28/08	6	569693	6.75	0.48	0.48	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	4.11	1.94	1.59	0.35	bdl	nd	nd	nd	nd	nd	nd
15	06/28/08	7	569692	13.28	0.72	0.72	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	10.31	1.54	1.19	0.35	nd	nd	nd	nd	nd	nd	nd
16	06/27/08	8	569700	3.70	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
17	06/28/08	9	569691	12.53	1.20	1.20	nd	nd	nd	nd	5.28	5.28	nd	nd	nd	nd	nd	nd	nd	nd	1.68	nd	nd	nd	bdl	nd	nd	nd	nd	0.24	nd
18	06/28/08	9 DUP	569691	53.33	0.48	0.48	nd	nd	nd	nd	33.94	33.56	0.38	nd	nd	nd	nd	nd	nd	nd	3.21	0.35	nd	0.35	nd	nd	nd	nd	nd	nd	nd
19	06/28/08	10	569690	48.18	nd	nd	nd	nd	nd	nd	3.77	3.40	0.38	nd	nd	nd	nd	nd	nd	nd	174.06	26.63	10.01	16.61	nd	nd	nd	nd	nd	nd	nd
20	06/28/08	11	569689	9.14	1.12	1.12	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.00	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
21	06/27/08	12	569688	518.26	nd	nd	nd	nd	nd	nd	392.55	384.34	3.39	4.82	nd	nd	nd	nd	nd	nd	0.78	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
22	06/28/08	13	569686	19.14	0.45	0.45	nd	nd	nd	nd	0.00	nd	nd	bdl	nd	nd	nd	nd	nd	nd	3.11	0.00	bdl	nd	nd	nd	nd	nd	nd	nd	nd
23	06/27/08	14	569685	1.57	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.00	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
24	06/27/08	15	569684	1.61	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	3.64	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
25	06/27/08	16	569683	278.09	5.59	0.96	1.24	0.56	1.85	0.99	0.78	0.38	nd	0.40	3.21	2.25	0.97	nd	nd	nd	127.23	23.35	15.22	8.13	nd	nd	nd	nd	nd	nd	0.94
26	06/28/08	17	569687	14.53	nd	nd	nd	nd	nd	nd	0.75	0.75	nd	nd	nd	nd	nd	nd	nd	nd	36.91	2.26	1.20	1.06	nd	nd	nd	nd	nd	nd	nd
27	06/27/08	18	569682	31.09	0.72	0.72	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	21.55	10.44	7.61	2.83	nd	nd	nd	nd	nd	nd	nd
28	06/27/08	19	569679	50.69	7.76	0.48	0.49	1.11	3.70	1.98	0.78	0.38	nd	0.40	1.22	0.90	0.32	nd	nd	nd	147.47	24.39	18.03	6.36	nd	nd	nd	nd	nd	nd	nd
29	06/27/08	20	569680	20.52	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
30	06/28/08	21	569681	1405.48	47.06	1.91	2.20	1.10	18.29	23.55	39.83	10.83	12.31	16.69	201.81	81.83	119.99	nd	nd	nd	6854.69	1804.23	749.64	1054.59	nd	nd	nd	nd	nd	nd	nd
31	06/27/08	22	569678	117.41	0.48	0.48	nd	nd	nd	nd	0.78	0.38	nd	0.40	nd	nd	nd	0.60	nd	0.60	31.79	6.27	5.21	1.06	nd	nd	nd	nd	nd	nd	nd
32	06/28/08	23	569677	2.84	nd	nd	nd	nd	nd	nd	0.78	0.38	nd	0.40	nd	nd	nd	nd	nd	nd	15.93	7.37	5.61	1.77	nd	nd	nd	nd	nd	nd	nd
33	06/28/08	24	569676	58.76	nd	nd	nd	nd	nd	nd	0.77	0.37	nd	0.40	nd	nd	nd	nd	nd	nd	6.79	1.54	1.19	0.35	nd	nd	nd	nd	nd	nd	nd
34	06/28/08	25	569675	70.66	2.31	1.20	nd	nd	0.62	0.50	1.18	nd	0.38	0.80	0.90	0.90	nd	nd	nd	nd	31.69	7.37	5.60	1.77	bdl	nd	nd	nd	nd	nd	nd
35	06/28/08	26	569674	1.86	0.72	0.72	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	3.24	nd	nd	nd	bdl	nd	nd	nd	nd	nd	nd
36	06/27/08	27	569673	3.06	1.19	1.19	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	5.44	1.19	1.19	bdl	bdl	nd	nd	nd	nd	nd	nd
37	06/27/08	28	569672	7.27	0.72	0.72	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	1.56	1.06	nd	1.06	bdl	nd	nd	nd	nd	nd	nd
38	06/27/08	29	569671	42.55	3.14	1.19	1.95	0.62	nd	nd	0.79	nd	bdl	0.79	0.00	bdl	nd	nd	nd	nd	22.02	2.28	1.58	0.70	nd	nd	nd	nd	nd	nd	nd
39	06/27/08	30	569670	21.69	1.97	0.97	1.00	nd	nd	nd	nd	nd	nd	nd	0.45	0.45	nd	nd	nd	nd	293.69	17.73	8.47	9.26	nd	nd	nd	nd	nd	nd	nd
40	06/28/08	31	569669	4.26	0.48	0.48	nd	nd	nd	nd	2.23	2.23	nd	nd	nd	nd	nd	nd	nd	nd	14.97	11.32	10.27	1.05	nd	nd	nd	nd	nd	nd	nd
41	06/28/08	32	569668	350.61	144.33	2.16	7.64	24.36	73.09	37.07	10.23	7.15	1.88	1.20	116.91	62.27	54.64	nd	nd	nd	1572.18	545.86	432.68	113.17	nd	nd	nd	nd	nd	nd	0.47
42	06/28/08	32-DUP	569668	529.66	150.58	5.77	10.85	27.13	71.24	35.59	19.30	13.17	4.13	2.00	101.39	52.86	48.54	nd	nd	nd	2584.83	940.02	657.62	282.40	bdl	nd	nd	nd	nd	nd	0.47
43	06/28/08	33	569667	3.07	0.72	0.72	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	3.80	2.80	2.80	nd	nd	nd	nd	nd	nd	nd	nd
44	06/28/08	FIELD BLANK	569699	bdl	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
45	06/27/08	TRIP BLANK	569701	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
46	06/27/08	method blank		bdl	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
47	06/28/08	method blank		bdl	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
48			Maximum	1405.48	150.58	5.77	10.85	27.13	73.09	37.07	392.55	384.34	12.31	16.69	201.81	81.83	119.99	0.60	0.00	0.60	6854.69	1804.23	749.64	1054.59	0.20	0.00	0.00	0.00	0.00	0.24	0.94
49			Standard Dev.	262.09	34.96	1.03	2.22	6.04	17.06	9.23	66.37	64.87	2.22	2.90	41.79	18.92	23.18	0.10	0.00	0.11	1236.21	346.73	177.38	183.04	0.09	0.00	0.00	0.00	0.00	0.04	0.19
50			Mean	112.17	11.26	0.76	0.83	1.63	5.05	2.99	14.75	13.25	0.68	0.84	12.36	5.91	6.48	0.02	0.00	0.03	361.77	100.60	57.15	43.48	0.06	0.00	0.00	0.00	0.00	0.01	0.05

Notes:

[1] - MDL - Method detection limit

[2] - TIC - Tentatively Identified Compound

[3] - Screening Level Source = Intrusion Screening Values (MPCA, June 2008) x 100

[4] - Screening Level Source = RfC x 100 (RfC values taken from databaase included in the USEPA's Johnson & Ettinger February 2004 Workbooks; RfC values for these compounds are not presently available in the on-line IRIS database)

No mdl is available for summed combinations of analytes. In summed columns (eqg., BTEX), the reported values should be considered ESTIMATED if any of the individual compounds were reported as bdl.

TABLE 1 - GORE™ SURVEYS ANALYTICAL RESULTS
STS, MAPLE GROVE, MN
GORE STANDARD VOC/SVOC TARGET COMPOUNDS PLUS ADDITIONAL PAHs (A4)
ESTIMATED CONCENTRATIONS
REILLY TAR - ST. LOUIS PARK, MN
SITE EJF - PRODUCTION ORDER #13674768

Row Number			Analyte Name:	Tetrachloroethene	1,4-Dichlorobenzene	Acenaphthene	Acenaphthylene	Fluorene	Phenanthrene (TIC)[2]	Anthracene (TIC)[2]	Fluoranthene (TIC)[2]	Pyrene (TIC)[2]	Chloroform	Carbon Tetrachloride	1,1,2-Trichloroethane	Chlorobenzene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	1,3-Dichlorobenzene	1,2-Dichlorobenzene
2				ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³
3			MDL[1] =	0.84	0.69	0.50	1.36	0.77	0.77	0.77	0.77	0.77	1.26	2.55	0.82	0.36	1.03	0.62	3.77
4			Screening Level (ug/m³) =	2000	6000	21000	--	14000	--	--	--	11000	15000	70	60	5000	--	20	10000	20000
5			Screening Level Source [3, 4] =	3	3	4		4				4	3	3	3	3		3	3	3
6			Max. Estim. Conc. (ug/m³) =	1.68	0.00	792.34	1008.18	1116.67	1404.87	369.05	219.80	139.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7			Max. Estim. Conc. / Screening Level =	0.00	0.00	0.04	--	0.08	--	--	--	0.01	0.00	0.00	0.00	0.00	--	0.00	0.00	0.00
8	Date Analyzed	Field Sample Location No.	Lab. Sample No.																	
9	06/27/08	1	569698	nd	nd	335.88	3.44	18.35	9.39	19.95	22.29	15.64	nd	nd	nd	nd	nd	nd	nd	nd
10	06/28/08	2	569697	nd	nd	nd	nd	nd	0.78	0.78	0.78	0.78	nd	nd	nd	nd	nd	nd	nd	nd
11	06/27/08	3	569696	nd	nd	1.41	nd	bdl	1.09	1.09	1.46	1.09	nd	nd	nd	nd	nd	nd	nd	nd
12	06/28/08	4	569695	1.68	nd	6.51	bdl	2.71	11.65	7.77	3.88	2.72	nd	nd	nd	nd	nd	nd	nd	nd
13	06/27/08	5	569694	nd	nd	47.43	bdl	14.06	41.08	10.17	13.69	8.22	nd	nd	nd	nd	nd	nd	nd	nd
14	06/28/08	6	569693	nd	nd	1.00	nd	bdl	1.16	nd	bdl	bdl	nd	nd	nd	nd	nd	nd	nd	nd
15	06/28/08	7	569692	bdl	nd	1.00	nd	0.78	3.11	1.55	1.16	1.16	nd	nd	nd	nd	nd	nd	nd	nd
16	06/27/08	8	569700	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
17	06/28/08	9	569691	0.85	nd	0.50	nd	nd	1.17	nd	bdl	nd	nd	nd	nd	nd	nd	nd	nd	nd
18	06/28/08	9 DUP	569691	nd	nd	0.50	nd	nd	1.57	0.78	bdl	bdl	nd	nd	nd	nd	nd	nd	nd	nd
19	06/28/08	10	569690	nd	nd	7.57	7.58	21.88	55.59	45.80	5.48	3.52	nd	nd	nd	nd	nd	nd	nd	nd
20	06/28/08	11	569689	nd	nd	bdl	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
21	06/27/08	12	569688	nd	nd	nd	nd	nd	nd	nd	0.78	bdl	nd	nd	nd	nd	nd	nd	nd	nd
22	06/28/08	13	569686	nd	nd	0.93	nd	bdl	bdl	bdl	1.09	1.09	nd	nd	nd	nd	nd	nd	nd	nd
23	06/27/08	14	569685	nd	nd	nd	nd	nd	nd	nd	nd	bdl	nd	nd	nd	nd	nd	nd	nd	nd
24	06/28/08	15	569684	nd	nd	0.50	nd	nd	0.78	0.78	0.78	0.78	nd	nd	nd	nd	nd	nd	nd	nd
25	06/27/08	16	569683	nd	nd	7.57	bdl	2.74	9.79	25.06	37.98	20.75	nd	nd	nd	nd	nd	nd	nd	nd
26	06/28/08	17	569687	nd	nd	2.02	1.38	3.51	12.90	5.47	5.47	3.91	nd	nd	nd	nd	nd	nd	nd	nd
27	06/28/08	18	569682	nd	nd	1.51	1.38	2.34	3.52	0.78	0.78	0.78	nd	nd	nd	nd	nd	nd	nd	nd
28	06/27/08	19	569679	nd	nd	14.14	2.07	8.99	34.45	14.49	32.50	16.44	nd	nd	nd	nd	nd	nd	nd	nd
29	06/27/08	20	569680	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
30	06/28/08	21	569681	nd	nd	792.34	1008.18	1116.67	1404.87	369.05	219.80	139.56	nd	nd	nd	nd	nd	nd	nd	nd
31	06/27/08	22	569678	nd	nd	9.08	bdl	1.95	4.70	1.57	4.31	3.91	nd	nd	nd	nd	nd	nd	nd	nd
32	06/28/08	23	569677	nd	nd	1.51	bdl	bdl	3.52	0.78	1.17	1.57	nd	nd	nd	nd	nd	nd	nd	nd
33	06/27/08	24	569676	0.84	nd	1.00	bdl	nd	1.55	nd	1.55	1.16	nd	nd	nd	nd	nd	nd	nd	nd
34	06/28/08	25	569675	nd	nd	5.55	bdl	1.56	7.43	1.96	3.91	3.91	nd	nd	nd	nd	nd	nd	nd	nd
35	06/28/08	26	569674	nd	nd	0.50	nd	nd	1.17	nd	0.78	0.78	nd	nd	nd	nd	nd	nd	nd	nd
36	06/27/08	27	569673	nd	nd	bdl	nd	nd	1.55	bdl	1.55	1.16	nd	nd	nd	nd	nd	nd	nd	nd
37	06/27/08	28	569672	nd	nd	0.50	nd	bdl	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
38	06/27/08	29	569671	nd	nd	1.99	bdl	1.93	7.33	2.32	3.86	2.32	nd	nd	nd	nd	nd	nd	nd	nd
39	06/27/08	30	569670	nd	nd	151.02	2.78	37.78	42.59	17.74	15.38	8.67	nd	nd	nd	nd	nd	nd	nd	nd
40	06/28/08	31	569669	nd	nd	2.49	nd	bdl	1.16	bdl	bdl	bdl	nd	nd	nd	nd	nd	nd	nd	nd
41	06/28/08	32	569668	nd	nd	373.62	7.56	169.54	262.40	133.93	51.15	28.11	nd	nd	nd	nd	nd	nd	nd	nd
42	06/28/08	32-DUP	569668	bdl	nd	762.86	14.44	274.77	350.65	156.19	55.84	30.07	nd	nd	nd	nd	nd	nd	nd	nd
43	06/28/08	33	569667	nd	nd	1.01	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
44	06/28/08	FIELD BLANK	569699	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
45	06/27/08	TRIP BLANK	569701	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
46	06/27/08		method blank	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
47	06/28/08		method blank	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
48			Maximum	1.68	0.00	792.34	1008.18	1116.67	1404.87	369.05	219.80	139.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49			Standard Dev.	0.35	0.00	195.87	170.21	193.49	244.09	69.28	38.64	24.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50			Mean	0.12	0.00	72.37	30.10	48.07	65.08	23.43	13.98	8.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Notes:

[1] - MDL - Method detection limit

[2] - TIC - Tentatively Identified Compound

[3] - Screening Level Source = Intrusion Screening
Values (MPCA, June 2008) x 100

[4] - Screening Level Source = RfC x 100
(RfC values taken from database included in the

USEPA's Johnson & Ettinger February 2004 Workbooks;

RfC values for these compounds are not presently

available in the on-line IRIS database)

No mdl is available for summed combinations of analytes. In summed
columns (eg., BTEX), the reported values should be considered
ESTIMATED if any of the individual compounds were reported as bdl.

**Table 2. GPS Waypoints of Vapor Pt and Orientation Locations
or Reilly Tar Sampling in St. Louis Park, Minnesota**

Former Reilly Tar Site Soil Vapor Survey - 2008
STS Project 200802141

| Sample ID | Latitude/Longitude in Decimal Degrees | | UTM Datum=Nad 83-15T | |
	Latitude	Longitude	E	N
P-1	N 44.94393	W 93.37493	470421.0	4976790.1
P-2	N 44.94373	W 93.37462	470445.3	4976767.8
P-3	N 44.94371	W 93.37412	470484.8	4976765.4
P-4	N 44.94404	W 93.37408	470488.1	4976802.0
P-5	N 44.94419	W 93.37376	470513.4	4976818.6
P-6	N 44.94452	W 93.37356	470529.4	4976855.2
P-7	N 44.94487	W 93.37357	470528.8	4976894.1
P-8	N 44.94491	W 93.37442	470461.7	4976898.8
P-9	N 44.94530	W 93.37353	470532.1	4976941.8
P-10	N 44.94568	W 93.37384	470507.9	4976984.1
P-11	N 44.94538	W 93.37280	470589.8	4976950.4
P-12	N 44.94510	W 93.37284	470586.5	4976919.3
P-13	N 44.94482	W 93.37275	470593.4	4976888.2
P-14	N 44.94453	W 93.37279	470590.1	4976856.0
P-15	N 44.94432	W 93.37276	470592.4	4976832.7
P-16	N 44.94405	W 93.37277	470591.4	4976802.7
P-17	N 44.94486	W 93.37193	470658.1	4976892.3
P-18	N 44.94385	W 93.37259	470605.5	4976780.4
P-19	N 44.94376	W 93.37229	470629.2	4976770.3
P-20	N 44.94376	W 93.37190	470659.9	4976770.3
P-21	N 44.94382	W 93.37150	470691.5	4976776.7
P-22	N 44.94360	W 93.37261	470603.8	4976752.6
P-23	N 44.94346	W 93.37289	470581.7	4976737.2
P-24	N 44.94326	W 93.37294	470577.6	4976715.0
P-25	N 44.94297	W 93.37290	470580.6	4976682.8
P-26	N 44.94270	W 93.37291	470579.7	4976652.8
P-27	N 44.94244	W 93.37290	470580.4	4976623.9
P-28	N 44.94219	W 93.37288	470581.8	4976596.1
P-29	N 44.94182	W 93.37283	470585.6	4976555.0
P-30	N 44.94170	W 93.37235	470623.4	4976541.5
P-31	N 44.94137	W 93.37104	470726.6	4976504.3
P-32	N 44.94030	W 93.37457	470447.5	4976386.8
P-33	N 44.93947	W 93.37465	470440.8	4976294.6
REILLY NE CRN	N 44.94590	W 93.37120	470716.2	4977007.6
REILLY NW CRN	N 44.94533	W 93.37517	470402.8	4976945.7
REILLY SE CRN	N 44.93938	W 93.37028	470785.5	4976283.0
REILLY SW CRN	N 44.93892	W 93.37562	470364.0	4976233.8

Appendix A

QAPP

Quality Assurance Project Plan

Reilly Tar Site Screening Soil Vapor Survey
St. Louis Park, Minnesota

STS Project 200802141

May-June 2008

Prepared by:
Peter A. Rzepecki, PhD PHg PG
Senior Project Hydrogeologist
STS
763-315-6345

Reilly Tar Site Screening Soil Vapor Survey
St. Louis Park, Minnesota

Quality Assurance Project Plan

Minnesota Pollution Control Agency

Prepared by
STS
10900 – 73rd Ave. N., Suite 150
Maple Grove, MN 55369-5547
763-315-6300

Prepared by:
Date:
Peter Rzepecki – STS Environmental Staff

Reviewed by:
Date:
Robert DeGroot – STS Project Quality Assurance Officer

Reviewed and approved by:
Date:
Nile Fellows– MPCA Project Manager

Reviewed and approved by:
Date:
Dave Scheer - MPCA Hydrogeologist

Reviewed and approved by:
Date:
Jay W. Hodny - W. L. Gore & Associates, Inc.

Distribution List:

Nile Fellows, Minnesota Pollution Control Agency
Bob DeGroot, STS
STS Field Staff
W.L. Gore

R6200802141-1

Reilly Tar Site Screening Soil Vapor Survey QAPP - Revision Number 1
Minnesota Pollution Control Agency
STS Project 200802141
May 30, 2008
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Reilly Tar Site Screening Soil Vapor Survey
St. Louis Park, MN

Quality Assurance Project Plan

Minnesota Pollution Control Agency

Prepared by
STS Consultants, Ltd.
10900 – 73rd Ave. N., Suite 150
Maple Grove, MN 55369-5547
7 63-315-6300

Prepared by: _____
Date: _____6 - 2 - 2008_____
· Peter Rzepecki – STS Environmental Staff

Reviewed by: _____
Date: _____6 - 2 - 2008_____
Robert DeGroot – STS Project Quality Assurance Officer

Reviewed and approved by: _____
Date: _____6/2/08_____
Nile Fellows– MPCA Project Manager

Reviewed and approved by: _____
Date: _____6/2/08_____
Dave Scheer - MPCA Hydrogeologist

Reviewed and approved by: _____
Date: ____5-31-2008_____
Jay W. Hodny - W. L. Gore & Associates, Inc.

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Table of Contents

1.0 Project and Task Organization

Introduction

The September 2006 Five Year Review for the Reilly Tar state and federal Superfund site required an evaluation of the potential for vapor intrusion into the on-site structures. To begin addressing this concern, this vapor study has been set up as a cooperative effort between the MPCA, STS which acts on behalf of MPCA, and W. L. Gore & Associates, Inc. (Gore), who has been selected and subcontracted to provide the needed GORE™ Survey technology.

2.0 Personnel, Responsibilities and Communication

STS Project Manager

> Peter Rzepecki
> Phone: 763/315-6345
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STS Project Quality Assurance Officer

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MPCA Project Manager

> Nile Fellows
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MPCA Hydrogeologist

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Owner's Representative for the City of St Louis Park

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W. L. Gore's Representative

> Jay Hodny
> Phone: 410/506-4774
> Fax: 410/506-4780
> Email: jhodny@wlgore.com

The specific responsibilities of the project members are listed below.

STS Project Manager (and designated STS staff)

1. Provide supervision and project assignments to STS staff.
2. Be responsible for review of all project deliverables.
3. Meet with MPCA Project Manager for review of progress and results of the project activities.
4. Responsible for development of request for proposal, bidding process for subcontracting passive diffusional sampling technology and laboratory services.
5. Oversee the project activities to ensure sampling methodologies, sample preparation reports, chain of custody procedures and all other procedures are being adequately adhered to.
6. Maintain record of all samples taken at the site including sample identification information.
7. Be in charge of project team organization and delegate specific tasks to be performed by field staff.
8. Coordinate arrangements with subcontractor.
9. Prepare/review all chain of custody records and field paperwork.
10. Monitor for hazardous conditions while conducting the project field activities.
11. Complete the Project Report after all necessary work has been completed.

STS Project Manager/Quality Assurance Officer

1. Be responsible for review of all project deliverables.
2. Define the objectives of the soil gas survey sampling program.
3. Provide appropriate criteria and guidance to the sampling personnel on the proper methods.
4. Review the subcontractor laboratory provided reports, including the data validation report.

MPCA Project Manager

1. Coordinate the overall activities of the study.
2. Administer work orders and fiscal obligation with STS.
3. Provide assistance with site access issues, if required.
4. Serve as point of contact for all MPCA responsibilities associated with the site evaluation.
5. Meet with the project team to discuss and review analytical results prior to finalizing the report.
6. Act as point of contact for public inquiries related to the site study. All questions directed at STS will be deferred to the MPCA Project Manager.

MPCA Hydrogeologist

1. Participate in project meetings including data review.
2. Review the work plan prepared by STS related to the objectives of the study and anticipated site conditions.

3. Provide technical assistance to STS as requested during the field activities.

4. Review the draft report for technical accuracy.

Owner's Representatives for City of St. Louis Park and City of Edina

1. Provide assistance with site access issues, as required.

W. L. Gore's Representative

1. Provide STS with diffusional sampler technology to apply in the field, provide technical support and advise.

2. Provide QA/QC for the entire process of sampler's preparation, delivery, laboratory analysis of the samplers, data review and reporting of the results.

3.0 Project Description

This project is to be carried out to address the issue of a potential VOC, SVOC and PAH soil vapor contamination near residential buildings at and around the former Reilly Tar Site, St. Louis Park, Minnesota (Site). These buildings are located on the north and northeast portions of what was once the Reilly Tar Site (see Figure 1). Several contaminants detected in soil and groundwater samples collected at the Site have vapor pressure high enough for migration at significant concentrations through the vadose zone. These contaminants include, among others, the following: Acenaphthene, Acenaphthylene, Carbazole, Dibenzofuran, Fluorene, 2-Methyl naphthalene, Naphthalene, Pyrene and Phenanthrene.

Since in recent years several contaminants were detected in St. Louis Park in soil gas at concentrations significantly above the Residential Intrusion Screening Values (June 2006 Version provided by Dr. Laura Solem, the MPCA Toxicologist), there is a concern that contaminants may also be present at the former Reilly Tar Site near residential buildings.

The locations of the sample points are near buildings that are on the property that is part of the former Reilly Tar Site. Based on past reports, there is still some contamination in the this area, potentially near or under the buildings. The contaminants from Reilly Tar are SVOCs and PAHs. However, other areas of St. Louis Park have VOC vapor issues. This data collection effort will report on SVOC, VOC and PAHs found.

4.0 Project Objectives, Data Quality Objectives

The purpose of the proposed soil gas survey is to carry out a screening-level survey to help identify if a soil gas cloud is present around and near proximity of residential complexes at and around the Reilly Tar Site.

Since this survey will generate data reported as adsorbed mass, rather than concentration, the data cannot be used to evaluate risks to human health. The survey will provide information about the presence and distribution of soil

gas contamination to guide further studies. This may include the need to expand this survey and/or to focus on selected areas for more quantitative studies. The immediate goal of this screening level St. Louis Park soil vapor survey is to use the GORE™ Survey for effective and economic characterization of the aerial extent of soil SVOC, VOC, and PAH contamination in the residential areas of St. Louis Park. Another goal is to pinpoint the sources of detected contamination.

In order to fulfill the project objectives, appropriate technology has been selected with the demonstrated track record of many successful applications in delineating soil gas clouds. The technology provider was selected through the competitive process of public bidding.

This Quality Assurance Project Plan (QAPP) represents Category IV of quality assurance programs (according to modified classification presented in QUALITY ASSURANCE AND QUALITY CONTROL Section of Great Lakes Contaminated Sediments - Assessment and Remediation of Contaminated Sediments (ARCS)) (http://www.epa.gov/grtlakes/arcs/EPA-905-B94-002/B94002-ch2.html). This category is defined as "projects that produce intermediate results in testing assumptions". In this case, the exploratory soil vapor survey tests the hypothesis that soil VOC, SVOC and light PAH gas clouds are present at the former Reilly Tar Superfund Site. The qualitative (rather than quantitative – mass adsorbed to probes vs. gas concentration) results of this survey will guide in planning further studies in this area. The Category IV projects involve the least stringent requirements for data acceptance, the fewest number of QA/QC samples, and the least number of issues to be addressed in the QAPP.

The STS field staff with soil vapor survey experience has been selected to perform the field tasks. The staff went through an internal training program designed based on the detailed materials provided by the selected technology provider. STS staff will all have current 40 hour OSHA training. STS site Health and Safety Plan will be followed while staff are on-site.

W.L. Gore & Associates, Inc. maintains a Quality Assurance Manual that spells out all aspects of quality assurance at all steps of the laboratory process. This document contains propriety information, is confidential and is available for the MPCA staff review.

5.0 Sampling Process Design

Sampling and Analysis Design

The following text has been compiled using the materials provided by Gore. Part of that material is available at GORE™ Surveys website:

http://www.gore.com/en_xx/products/geochemical/environmental/surveys_environmental_faq.html

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Field Sampling Procedure

STS will follow the Gore provided "Soil Gas Sampling – Storage, Installation and Retrieval Guidelines" appended to this Quality Assurance Project Plan (QAPP). This document included standard field operating procedures that STS will be involved in during this soil vapor survey.

Field Equipment

The modules deployment and retrieval operations may require the use of the following equipment:

- GORE™ Modules
- GORE™ Surveys sample containers
- Scaled site map and field notebook
- Corks
- Stakes/flags/markers
- Two or three 300 foot tape measures, or other distance measuring devices
- Pen/pencil
- Rotary hammer with 1" carbide-tipped bit (36" long)
- Several extension cords
- Power source (portable generator or nearby building)
- Slide hammer
- 4 – 5' Tile probe
- Insertion rod
- Gloves
- Paper towels
- Trash bag (for waste towels, etc.)
- Water to decontaminate slide hammer, drill bit and insertion rod
- Installation and Retrieval Information Sheet
- Installation and Retrieval Log
- Chain of Custody
- Scissors, cork screw or knife
- String
- Weights
- Cooler
- Small shovel
- Pliers or vise-grips (needle nose)
- Patching materials
- Steel pins for identification of deployed sampler locations

No equipment used in the field requires any calibration.

Sampling Design

This soil vapor survey will be conducted with the use of GORE™ Modules (Modules) and associated equipment. The Module (formerly known as the GORE-SORBER® Screening Module) is constructed of a GORE-TEX® membrane tube, a chemically-inert, waterproof, yet vapor-permeable polymer, which houses engineered adsorbents. Volatile and semi-volatile compounds present in air, soil gas or water diffuse unimpeded through the membrane to the adsorbent material, while liquid water and soil particles are prevented from contacting the adsorbent. The membrane has over 80% open area and pore sizes that are 1,000 times larger than the largest SVOC molecule, thus offering essentially no resistance to vapor migration to the adsorbent. Compounds moving to the inside of the membrane are immediately collected by the adsorbents.

Each module (except for trip blank and field blank modules) will be deployed for a period of ten days by installing it in a small diameter, 2-1/2 to 3 feet deep hole. The holes will be created using 1 inch diameter, 36 inches long carbide drill bit operated with a generator powered Bosh Rotary Hammer Drill. The generator will be operated at least 30 feet away from the hole location to avoid exposure of the hole to contaminants coming from exhaust. In case the generator cannot be easily transported to near the sampling site, a manually operated slide hammer will be used to drive the bit.

The holes for module deployment will be drilled following utility clearance. Each hole will be located at least 15 feet away from any near ground surface conduits that may serve as preferential pathways for soil gas migration.

A stainless steel insertion rod will be supplied by Gore. One end of the rod fits into a small pocket cut in the module. The opposite end of the module is tied to a strong cord, which is then tied to a cork (cord and cork supplied by Gore). The assembly is slid into the hole to depth, and the rod extracted. The module will slide off the end of the insertion rod with a quick twist, or by pressing the assembly against the side of the hole when extracting the rod. The hole is sealed with the cork. The module serial number and sample location are noted on the field map, and the Installation and Retrieval Log is updated as the installation progresses to the next sample location.

All parts of the equipment that are in contact with the module will be decontaminated prior to and between the sampling locations (during module deployment and retrieval). Equipment will be decontaminated using D.I. water and soap (Alconox or equivalent).

During module deployment and module retrieval activities, the STS field team will carry four trip blank samples (per W.L. Gore QA procedures). These samples will also accompany the samplers during transport from Gore to STS and back to the Gore laboratory. One sampler will be used as a field blank. This sample will be exposed to ambient air (by removing them from and reinserting to the protective vial in which it is shipped) for a brief period of time – the same amount of time the other samplers are exposed during their installation and retrieval.

In Gore's soil vapor survey experience (over 3,000 surveys completed worldwide), duplicate samples are usually not necessary and not collected. These surveys provide the results that are more qualitative than quantitative. On the other hand, MPCA typically requires that 10% of the collected samples are field duplicates. Therefore, for added quality of this survey's results, two of the 33 samplers to be deployed during this project will be designated for duplicate analysis. The duplicate samples will be designated by the STS project manager (or other delegated staff) and indicated on the chain of custody accompanying the retrieved samplers on their way to the Gore laboratory.

Analysis of duplicate samples will be possible since each module contains a minimum of two samples of adsorbent available for analysis. One sample is analyzed, while the second sample is stored for a period of at least 15 days following the original analytical sequence. This provides a backup sample in the event of an instrument malfunction or if additional QA is required. However, because the laboratory will know that the "duplicate" sample comes from the same location as the first sample, this duplicate sample will not represent a blind duplicate sample.

After the ten day period of the deployment, the GORE modules will be retrieved and will be returned to their respective sample vials and the vials caps screwed in place; a custody seal is affixed to the outside of each of the vials and caps. These sample vials are designed to eliminate any need for refrigerated storage or shipment on ice. To ensure a tight seal on the glass container, all visible soil from the jar threads needs to be removed. The field personnel also need to check if the module tubing is not pinched between the jar lid and jar. Over-tightening will crack the jar lid.

Field documentation, daily logs and GORE-SORBER® Screening Survey Installation and Retrieval Logs will be maintained with recorded module deployment and collection date, time, module installation hole's depth, module deployment location (address, GPS coordinates, hand drawn orientation plan annotated with measured distances to some easily noticeable orientation points), name of a person who deployed and collected the module. Examples of the forms to be used are attached to this QAPP.

A GORE-SORBER® Screening Survey Chain of Custody will be initiated in the field at the time of sampling. A copy will accompany each set of samples shipped to the laboratory.

Soil gas samples will be collected from approximately 32 locations, as presented on Figure 1. The number of deployed samplers may vary due to private property site access issues.

The retrieved modules, the insertion rod, module logs and chain of custody will be shipped to the Gore laboratory to the address:

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Screening Modules Laboratory
W.L. Gore & Associates, Inc.
100 Chesapeake Blvd.
Elkton, MD 21921
Phone: 410/392-7600

The details of the module handling, installation, retrieval and necessary equipment are provided in the "Soil Gas Sampling – Storage, Installation and Retrieval Guidelines" provided by Gore and appended to this QAPP.

The field deployed modules, field blank and trip blanks delivered by STS to the Gore laboratory will be subject to analysis conducted following a modified US EPA 8260 and US EPA 8270 analytical method, using gas chromatography (GC) and mass selective detection (MS), conducted following thermal desorption (field deployed, trip blanks, and QA/QC samples). During analytical procedures, calibration standards (five point) containing the target compounds are introduced in the analytical sequence. Field sample results are compared against the calibration standards. If the compound in question satisfies the identification criteria, and it is present in quantities that exceed the method detection limit, Gore considers it a true result. Compound levels reported from the field installed modules that exceed the method detection limit and any levels observed in the QA blanks, are considered derived from the field. Field samples, trip blanks, and other QA blanks are subject to the same analytical methods and are analyzed concurrently.

6.0 Internal Quality Assurance

The GORE™ Modules are constructed in a clean room. Before the modules are shipped to the field, they must pass internal QA criteria for cleanliness and "fitness-for-use." Modules shipped to the field are accompanied by trip blanks. Trip blanks are selected, by the consultant, from the shipment of modules slated for installation. They are left unopened and travel from Gore to the client, to the field during the installation and retrieval, and then returned to Gore with the rest of the modules. Trip blanks document any ambient contamination that may have occurred during the travel and storage of the modules away from Gore.

Each module is stored in individual glass jars, uniquely labeled with its own serial number. The jar lids have excellent sealing capabilities, and custody seals are affixed to the lid and jar. Completed modules are stored in zero-contamination cabinets until an order is received. All modules are tracked internally by their serial number. All module lots are tested for ambient contamination present during their construction. Module lots that do not meet QA criteria are destroyed.

Analytical QA includes the use of instrument blanks and method blanks to purge the instrument of residual organic vapors, and document ambient impact that may have occurred during the analytical sequence, respectively. These blanks are distributed throughout the analytical sequence.

Mass spectrometer tuning standards are analyzed and must meet QA criteria before a sequence can advance.

The module serial number serves as the Chain of Custody sample ID from the manufacturing through analysis, mapping and reporting.

Field Sampling QA

Quality assurance procedures to be used in the field are aimed at ensuring that contaminants are not introduced into the modules by field equipment, module deployment and retrieval procedures, or any other part of the field or transport procedures. STS will follow procedures described in the Gore provided "Soil Gas Sampling – Storage, Installation and Retrieval Guidelines" appended to this QAPP. All the field activities will be documented and recorded on the Gore provided module "Installation/Retrieval Log" and the STS Environmental Field Report. This documentation will serve as the project quality assurance record.

The following quality control tasks will be completed in the field to maintain the quality assurance objectives.

- Equipment is decontaminated prior to sampling.
- Proper operation of field equipment is performed.
- Proper techniques are used when installing and retrieving the modules.
- Proper module handling methods are used.
- Installation/Retrieval Log and STS Environmental Field Report are promptly filled out.
- Chain of custody form is properly completed prior to laboratory shipment.

Quality assurance procedures to be used in the field are aimed at ensuring that contaminants are not introduced into the samples by sample containers, sampling equipment, sampling procedures, sample label equipment, or any other part of the sampling transport procedures.

Field quality assurance procedures will include the following:

1. Field Blank – One sampler will be used as a field blank. This sampler will be exposed to ambient air for the amount of time equivalent to the time the other samplers are exposed during their installation and retrieval. Field blank exposure will be accomplished by removing the selected module from and reinserting it to the protective vial in which it is shipped from Gore.

2. Field Duplicates – MPCA typically requires that 10% of the collected samples are field duplicates. However, since the results produced by this type of survey are qualitative, it is Gore's experience that no field duplicates are necessary. Nonetheless, two among the approximately 33 retrieved samplers will be

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designated for duplicate analysis. This will be possible since each module contains a minimum of two samples of adsorbent available for analysis. Typically, one sample is analyzed, while the second sample is stored for a period of at least 15 days following the original analytical sequence. This provides a backup sample in the event of an instrument malfunction or if additional QA is required.

3. Trip Blanks - During module deployment and module retrieval activities, the STS field team will carry three trip blank samples. These samples will also accompany the samplers during transport from Gore to STS and back to the Gore laboratory.

No corrective actions will be taken in case the deployed samplers are stolen, tampered with, or some other problems in the field occur, other than documenting these problems in the project field forms. Corrective action will be taken by the laboratory if analytical results do not meet the required Quality Assurance standards. For discussion of the corrective action, see Section VI in the Sampling and Analysis Plan developed separately for this project.

7.0 Laboratory Work and QA/QC

7.1 Laboratory Quality Assurance

Gore provided STS with a copy of the Quality Assurance Manual (QAM). This document contains a detailed description of the analytical methods, equipment calibration, standard operating procedures (SOPs) and QA/QC measures implemented during the sampler's manufacture, analytical and reporting work. It describes the knowledge and provides ways to exercise a measure of control over many variables that affect the production of reliable data. Gore provided services that are described in the QAM and are organized into the following operational areas:

- Sales & Projects;
- Manufacturing;
- Analytical;
- Mapping;
- Reporting; and
- Quality Assurance.

These procedures help generate data of defined quality from samples collected in the field and analyzed in the laboratory.

These documents are available for Minnesota Pollution Control Agency's review.

7.2 Analytical Services

Project management, field operations and final reporting will be conducted by STS. STS will use the Gore provided equipment needed to carry out the GORE™ Survey. Gore will carry out analysis of the retrieved samplers following methodology which is described in detail in a document that is on file with STS and available for MPCA for review: "W.L. Gore & Associates, Inc., Survey Products Group, Quality Assurance Manual, © COPYRIGHT. 2008. W.L. Gore & Associates, Inc.". This document contains propriety information and is confidential.

8.0 Data Generation

The GORE™ Survey was introduced in late 1992. Since that time, over 3,000 surveys have been completed in all 50 states and many countries worldwide, for virtually all site types and geological and climatological conditions - in air, soil and water. The GORE™ Survey technology has been reported in the USEPA Environmental Technology Verification Report, Soil Gas Sampling Technology, W. L. Gore and Associates, Inc. GORE-SORBER® Screening Survey (EPA/600/R-98/095) available at: http://www.epa.gov/etv/pubs/01_vr_goresorber.pdf. Another USEPA report Environmental Technology Verification Report, Groundwater Sampling Technologies, W. L. Gore and Associates, Inc. GORE-SORBER® Water Quality Monitoring (EPA/600/R-00/091) is available at: http://www.diffusionsampler.org/Admin/EventDetails/DocumentViewInfo.asp?DocID=308&Location=Library) and http://www.diffusionsampler.org/Documents/epa-vs-scm-38_gore_sorber.pdf. This kind of the methodology's track record provides a degree of assurance that the data generated by the survey will be of high quality and will serve the objectives of this project.

9.0 Data Validation

The data validation or review is critical to identifying the technical reliability of the data so it may be used correctly in decision making and project objectives. Any data that is considered to be an outlier will be reviewed for the effects the data has upon the project (see SAP for corrective action guidelines). If data is found to be of minimal importance, it may be excluded from the data set by the MPCA or re-sampling may be required. It is important that the data provided by the laboratory be verified by checking it for compliance, correctness, consistency, and completeness. Gore will provide a Data Validation Report to STS and MPCA once fieldwork and laboratory analysis is completed.

10.0 Corrective Action

Corrective action will be taken by the laboratory if analytical results do not meet the required Quality Assurance standards.

If the quality control audit detects unacceptable conditions or data, the Quality Assurance/Quality Control Officer and Project Manager are responsible for developing and initiating appropriate changes or modifications, and documenting those changes. The condition or problem will be specifically identified, recorded in the appropriate log

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or project file, investigated, and the cause determined. Changes or modifications will then be initiated to eliminate the problem. The corrective action may include the following options:

- Re-analyze samples if holding time and sample volume permit.
- Evaluating and amending analytical procedures.
- Accepting data, while documenting a level of uncertainty.

Upon implementation of corrective action, STS will document the corrective action in the study report. A Corrective Action Report (CAR) will be provided by the laboratory. The STS CAR will document actions taken and their effectiveness will be established and elimination of the problem verified. The laboratory CAR will be included as an attachment to the STS CAR. Details regarding the changes or modifications implemented and the results will be documented and retained in the project file. The case narrative(s) will fully describe any corrective action taken by the laboratory and/or STS. All field corrective action will be documented by the Project Manager on the Sampling Information Form and summarized for the site file.

11.0 Documents and Records

All data reported by the laboratory must have the following items present:
a.   date received,
b.   date analyzed,
c.   analytical method number,
d.   reporting limits / PQL
e.   alphabetized compound list,
f.   measured mass of VOC accumulated on sampler,
g.   narrative,
h.   signature of lab officer on report,
i.   flags for data that shows anomalies,
j.   laboratory sample numbers,
k.   project name on the report, and
l.   any method modifications explained.

All analytical reports received by the laboratory will be reviewed for the minimal reporting elements. The W.L. Gore & Associates SOP states that a copy of the raw data and the report will be maintained for a minimum of five years. STS will maintain a copy of the laboratory report within the project files. All data associated with the St. Louis Park soil vapor survey will be stored at MPCA and STS.

All the key project staff, STS and MPCA, will be provided with the most-current version of the QAPP.

The following personnel will be responsible for the project data and record's retention:

W. L. Gore & Associates, Inc. (Gore) – Jay W. Hodny, 410/506-4774

STS Consultants (STS) – Peter Rzepecki, 763/315-6345

Minnesota Pollution Control Agency (MPCA) – Nile Fellows, 651/296-7299

Gore and STS will maintain electronic records with the project data. MPCA and other parties authorized by MPCA will have access to these electronic records upon request.

12.0 Data Assessment

The collected field and laboratory data will be presented in a report that will include tabulation sample (module) collection time, sample depth, sampling location (address, GPS coordinates), tabulation of the laboratory VOC analytical results (presented as mass accumulated per analyte per module), data validation report, three contaminant contour maps for the three contaminants of most concern, interpretation and discussion of the results and recommendations for further work. The three most important contaminants of concern to be plotted will be the most ubiquitous VOCs, SVOCs and/or PAHs with the highest adsorbed mass measured by the Gore laboratory. They will be determined by STS staff upon receiving the analytical results from the Gore laboratory. If the data support the desire to produce additional maps, Gore can provide two maps at no additional cost.

Laboratory analysis report will be included as an appendix to the report and will include quality control samples results and description of qualifiers. Data Validation Report will be included as another appendix to the report.

The report will fulfill the requirements listed in Section 1.6.22 – Reports, from the State of Minnesota Sampling and Laboratory Analysis Services – Environmental, as pertains to soil vapor surveys and analysis. Appended to this QAPP is the Gore provided letter: "GORE™ Surveys Standard Final Report Deliverable vs. Contract Requirements (Section 1.6.22)" which spells out the Gore provided report deliverables. These deliverables will be consistent with Section 1.6.22 only to the extent that it is applicable to the applied technology and analytical methodology.

13.0 Reference List

Gore, 1998. Environmental Technology Verification Report, Soil Gas Sampling Technology, W. L. Gore and Associates, Inc. GORE-SORBER® Screening Survey (EPA/600/R-98/095) available at: http://www.epa.gov/etv/pubs/01_vr_goresorber.pdf.

Gore, 2000. Environmental Technology Verification Report, Groundwater Sampling Technologies, W. L. Gore and Associates, Inc. GORE-SORBER® Water Quality Monitoring (EPA/600/R-00/091) - Document Information,

Interstate Technology Regulatory Council website:

http://www.diffusionsampler.org/Admin/EventDetails/DocumentViewInfo.asp?DocID=308&Location=Library.

Gore, 2007. GORE™ Surveys – Air, Soil, and Water Frequently Asked Questions. W. L. Gore and Associates, Inc. website: http://www.gore.com/en_xx/products/geochemical/environmental/surveys_environmental_faq.html

GORE™ Surveys Summary of References (A Partial Listing) is attached to this QAPP.

GORE-SORBER® Screening Survey Chain of Custody

For W.L. Gore & Associates use only
Production Order # 13674768

W. L. Gore & Associates, Inc., Survey Products Group
100 Chesapeake Boulevard • Elkton, Maryland 21921 • Tel: (410) 392-7600 • Fax (410) 506-4780

Instructions: Customer must complete ALL shaded cells

Customer Name: STS CONSULTANTS	Site Name: REILLY TAR SUPPER
Address: 10900 73RD AVENUE NORTH	Site Address: FUND ST LOUIS PARK MN
SUITE 150	
MAPLE GROVE MN 55369 U.S.A.	Project Manager: PETER RZEPECKI
Phone: (736) 315-6345	Customer Project No.: 12266797
FAX:	Customer P.O. #: 20080214 Quote #: 228876

Serial # of Modules Shipped				# of Modules for Installation 36	# of Trip Blanks 4
# 569667 - # 569706	# - #	Total Modules Shipped: 40	Pieces
# - #	# - #	Total Modules Received:	Pieces
# - #	# - #	Total Modules Installed:	Pieces
# - #	# - #	Serial # of Trip Blanks (Client Decides) #
# - #	# - #	#	#	#
# - #	# - #	#	#	#
# - #	# - #	#	#	#
# - #	# - #	#	#	#
# - #	# - #	#	#	#
# - #	# - #	#	#	#

| Prepared By: *Charlene Yellowdly* | # | # | # |
| Verified By: *Charlene Yellowdly* | # | # | # |

Installation Performed By:

Name (*please print*): _____

Company/Affiliation: _____

Installation Method(s) (*circle those that apply*):
Slide Hammer   Hammer Drill   Auger
Other: _____

| Installation Start Date and Time: | / | / | : | AM PM |
| Installation Complete Date and Time: | / | / | : | AM PM |

Retrieval Performed By:

Name (*please print*): _____

Company/Affiliation: 1_____

Total Modules Retrieved:	Pieces
Total Modules Lost in Field:	Pieces
Total Unused Modules Returned:	Pieces

| Retrieval Start Date and Time: | / | / | : | AM PM |
| Retrieval Complete Date and Time: | / | / | : | AM PM |

Relinquished By *Charlene Yellowdly*	Date	Time	Received By:	Date	Time
Affiliation: W.L. Gore & Associates, Inc.	5-23-8	7:00am	Affiliation:		
Relinquished By _____	Date	Time	Received By:	Date	Time
Affiliation: _____			Affiliation:		
Relinquished By _____	Date	Time	Received By:	Date	Time
Affiliation _____			Affiliation: W.L. Gore & Associates, Inc.		

GORE-SORBER ® Screening Survey is a registered service mark of W.L. Gore & Associates, Inc.

FORM 8R.8
1/08/0

GORE-SORBER® Screening Survey
Installation and Retrieval Log

Page 1. of 1.

SITE NAME & LOCATION

LINE #	MODULE #	INSTALLATION DATE/TIME	RETRIEVAL DATE/TIME	EVIDENCE OF LIQUID HYDROCARBONS (LPH) or HYDROCARBON ODOR (Check as appropriate)			MODULE IN WATER (check one)		COMMENTS
				LPH	ODOR	NONE	YES	NO	
1.	569667								
2.	569668								
3.	569669								
4.	569670								
5.	569671								
6.	569672								
7.	569673								
8.	569674								
9.	569675								
10.	569676								
11.	569677								
12.	569678								
13.	569679								
14.	569680								
15.	569681								
16.	569682								
17.	569683								
18.	569684								
19.	569685								
20.	569686								
21.	569687								
22.	569688								
23.	569689								
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28.	569694								
29.	569695								
30.	569696								
31.	569697								
32.	569698								
33.	569699								
34.	569700								
35.	569701								
36.	569702								
37.	569703								
38.	569704								
39.	569705								
40.	569706								
41.									
42.									

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FORM 8R.8
1/08/0

GORE™ SURVEYS ENVIRONMENTAL SITE ASSESSMENT

FOCUSING YOUR REMEDIATION EFFORTS.

Soil Gas Sampling - Storage, Installation and Retrieval Guidelines

NOTE: If you have any questions regarding installation and retrieval, please call:
Jay Hodny, Jim Whetzel or Diane Cooper
(410) 392-7600

GENERAL

Always obtain utility clearance before digging or probing.

Site activities which may disturb the natural soil gas migration should not be conducted during the time when the modules are in the subsurface. Such activities include, but are not limited to, installation/operation of soil vapor extraction systems, drilling (e.g., air-rotary), excavation, air sparging, etc.

The following items are provided by Gore:
- Shipping container, boxes with partitions containing individually numbered GORE™ Modules, including trip blanks (DO NOT DISCARD SHIPPING CONTAINER OR PARTITIONED BOXES),
- Insertion rod (please return after use),
- Corks with screw eyes,
- String (cord),
- Chain of Custody and Installation/Retrieval Log
- Custody seals
- Instructions.

STORAGE
GORE™ Modules are carefully cleaned, sealed, and stored after manufacturing. They must remain sealed in their vials in the shipping boxes until deployment and after retrieval. **DO NOT** store them near potential sources of organic vapors such as petroleum fuels and exhaust, solvents, adhesives, paints, etc. ·

REQUIRED TOOLS/SUPPLIES
Depending on project objectives or restrictions, GORE™ Modules can be installed to any depth. For soil gas sampling, a narrow diameter hole (approximately 1/2 to 1-inch) is drilled or driven to a depth of at least three feet. Simple hand tools such as a slam bar or rotary hammer drill will suffice. Direct-push or auger type tools can also create deeper installation holes.

Additional tools (to be supplied by the customer) required for installation may include:
- Equipment to lay out and mark sample locations (scaled map, measuring tapes, pin flags, GPS);
- Disposable gloves and equipment decontamination supplies
- If sample locations need to be hidden from view to prevent damage by vandalism or animals, a metal washer or nut on top of the cork and covered with dirt can be used in place of visible marker. Use a metal detector to locate modules for retrieval.
- Slide hammer/tile probe (slam bar) or electric rotary hammer drill (AC power outlet or portable generator and extension cords required) with carbide-tipped bits or augers (1/2 to 1-inch diameter, three feet or more in length).
- Information on where these items can be purchased is provided below as a courtesy and does not represent any endorsement of these products or suppliers:

Item	Supplier	Phone No.
* Slide Hammer/Tile Probes	Forestry Supplies	(800) 647-5368
* Carbide Drill Bits (36" long)	1. Kerfoot Technologies, Inc. 2. the Blade Runner	1. (508) 539-3002 2. (610) 444-6708
* Rotary Hammer Drill	SKILL-BOSCH Power Tools	(800) 334-5730

* Art's Manufacturing Supply (dba AMS) has all these items (800) 635-7330

TRIP BLANKS

An additional number (specified) of GORE™ Modules are included as trip blanks. The customer selects which modules to be used/treated as trip blanks, and notes this on the Chain of Custody and Installation/Retrieval Log. These modules remain unopened, travel to and from the site during installation and retrieval, and while in storage away from Gore's facility.

MODULE INSTALLATION

● To facilitate the installation of the modules, it is recommended that the cord and corks be prepared prior to going to the field. As an example, for a three foot installation, cut a piece of the supplied cord to a length of approximately 7.0 feet or 2.25 meters. Tie the ends of the cord together using a non-slip knot (square knot is suggested, Figure 1). Pass the looped cord through the eyelet in the cork and pull it back through itself. Wrap the remainder of the cord around the cork and secure the cord/cork combination with a rubber band. The cork and cord are now ready to attach to the module after the pilot hole is created at the installation location.

Square knot instructions (Figure 1)

1. Take an end of the cord in each hand.
2. Pass the left-hand cord over the right-hand cord and wrap it around the right-hand cord.
3. Take the cord end that is now in your right hand, place it over the cord end in your left hand and wrap it around that cord.
4. Pull the cord carefully to tighten the knot.

Figure 1. Square Knot

● **We do not recommend installation of modules within 15 feet of monitoring wells, utility trenches or other conduits, which may act as a preferential pathway for soil vapor migration.**
● Drive/drill the narrow installation hole at the desired pre-marked location. In sandy soils, occasionally the hole will collapse after the drill or tile probe is removed. Adding deionized water to the sandy soil will temporarily compact the soil and keep the hole open for module insertion.
● Wearing clean surgical gloves, remove module from the numbered jar and re-seal the jar. The barcode on the jar lid should correspond with the serial number on the module - please verify.
● Attach the cord and cork to the module by passing the looped cord through the loop on the module and pull the cord/cork back through itself.
● Place the insertion rod into the pre-cut pocket at the base of the module and lower it into the hole. If you encounter resistance remove the module and ream the hole and re-insert the module.
● Once deployed to the desired depth, press the insertion rod against the side of the hole and twist slightly to release the module. Remove the rod and push any excess cord into the hole and plug it with the cork (Figure 2).
● Indicate the module number, date and time of installation and any pertinent comments on the installation/retrieval log. Write the module serial number on the site map adjacent to the appropriate map location.
● **To minimize sample location errors, it is preferable to record the GORE™ Module serial number on the field map. However, if another sample numbering system is used, information relating the sample number system to the GORE™ Module serial numbers must be provided either on the Installation and Retrieval Log, or in a separate table.**

- Clean the tile probe or drill bit and the insertion rod prior to use at the next location. Replace the surgical gloves as necessary before handling any modules.
- Following module installation, the modules selected as **trip blanks** should be kept in the sample box provided and stored as described above in "STORAGE" until sample retrieval.

MODULE RETRIEVAL
- Following the module exposure period identify and check each location in the field using the site map.
- Remove the cork with a penknife or corkscrew. Grasp the cord and pull the module from the ground; **verify the module ID number**. Cut off and discard the cork and cord. Place the entire module in its labeled jar and secure the lid.
- **Use caution when screwing down the lid on the sample jars. Clean any soil/debris from the threads of the jar and lid, and make sure no part of the module is pinched between the jar and lid. Be sure the seal is tight. Over-tightening may cause breakage.**
- **Affix a custody seal to the side of the jar and jar lid. Do not cover the barcode with the seal.**
- Place the jar in the supplied partitioned box.
- Complete the module retrieval date/time on the Installation/Retrieval log.

PACKAGING FOR RETURN
- Place boxes with modules back into outer shipping container using appropriate packing materials to protect fragile contents.
- **Do not** use Styrofoam "peanuts" as packing material. Bubble packing is acceptable.
- Label box to indicate fragile contents.
- There is no need to return the shipment in coolers with ice.
- Return the GORE™ Modules, insertion rod and paperwork (preferably by overnight courier) to:

Screening Modules Laboratory
W.L. Gore & Associates, Inc.
100 Chesapeake Blvd.
Elkton, MD 21921
Phone: (410) 392-7600
Attn: NOTIFY LAB IMMEDIATELY UPON DELIVERY!!

IMPORTANT: Samples should **not** be shipped for weekend or holiday delivery at GORE.

Figure 2. GORE™ Module Installation

Rotary hammer drill

Slide hammer

Initial insertion

After insertion,
before cork seal

Appendix B

W.L. Gore and Associates Report

W. L. GORE & ASSOCIATES, INC.

GORE
Creative Technologies
Worldwide

100 CHESAPEAKE BLVD., P.O. BOX 10 • ELKTON, MARYLAND 21922-0010
PHONE: 410.392.7600 • FAX: 410.506.4780

GORE™ EXPLORATION SURVEY
GORE™ ENVIRONMENTAL SURVEY

GORE™ Surveys
Final Report

Reilly Tar Site
St. Louis Park, MN

July 10, 2008

Prepared For:
STS Consultants
10900 73rd Avenue North
Suite 150
Maple Grove, MN, 55369

W.L. Gore & Associates, Inc.

Written/Submitted by:
Jim E. Whetzel, Project Manager

Reviewed/Approved by:
Hilary G. Trethewey, Project Manager

Analytical Data Reviewed by:
Don D' Apolito, Chemist

GORE^{TM} Surveys - Final Report

REPORT DATE: 07/10/2008   **AUTHOR:** JW

SITE INFORMATION

Site Reference: Reilly Tar Site, St. Louis Park, MN
Gore Production Order Number: 13674768   **Gore Site Code:** EJF

FIELD PROCEDURES

 # Modules shipped: 40
Installation Date(s): 6/5/2008
 # Modules Installed: 33
Field work performed by: STS

Retrieval date(s): 6/16,17/2008   **Exposure Time:** 11-12 **[days]**
 # Modules Retrieved: 33   **# Trip Blanks Returned:** 1
 # Modules Lost in Field: 0   **# Field Blanks Returned:** 1
 # Modules Not Returned: 0   **# Unused Modules Returned:** 5

Date/Time Received by Gore: 6/18/2008 12:00 PM   By: DY
Chain of Custody Form attached: Yes
Chain of Custody discrepancies: None

Comments:
Module 569701 was identified as a trip blank.
Module 569699 was identified as a field blank.
Modules 569702-706 were returned unused.

GORE^{TM} Surveys - Final Report

ANALYTICAL PROCEDURES

W.L. Gore & Associates´ Screening Module Laboratory operates under the guidelines of its Quality Assurance Manual, Operating Procedures and Methods. The quality assurance program is consistent with Good Laboratory Practices (GLP) and ISO Guide 25, "General Requirements for the Competence of Calibration and Testing Laboratories", third edition, 1990.

Instrumentation consists of state of the art gas chromatographs equipped with mass selective detectors, coupled with automated thermal desorption units. Sample preparation simply involves cutting the tip off the bottom of the sample module and transferring one or more exposed sorbent containers (sorbers, each containing engineered adsorbents) to a thermal desorption tube for analysis. Sorbers remain clean and protected from dirt, soil, and ground water by the insertion/retrieval cord, and require no further sample preparation.

Analytical Method Quality Assurance:
The analytical method employed is a modified EPA method 8260/8270. Before each run sequence, two instrument blanks, a sorber containing 5µg BFB (Bromofluorobenzene), and a method blank are analyzed. The BFB mass spectra must meet the criteria set forth in the method before samples can be analyzed. A method blank and a sorber containing BFB are also analyzed after every 30 samples and/or trip blanks. Standards containing the selected target compounds at five calibration levels are analyzed at the beginning of each run. The criterion for each target compound is less than 25% RSD (relative standard deviation). If this criterion is not met for any target compound, the analyst has the option of generating second- or third-order standard curves, as appropriate. A second-source reference standard, at a level of 10µg per target compound, is analyzed after every ten samples and/or trip blanks, and at the end of the run sequence. Positive identification of target compounds is determined by 1) the presence of the target ion and at least two secondary ions; 2) retention time versus reference standard; and, 3) the analyst's judgment.

NOTE: All data have been archived. Any replicate sorbers not used in the initial analysis will be discarded fifteen (15) days from the date of analysis.

Laboratory analysis: thermal desorption, gas chromatography, mass selective detection
Instrument ID: # 8 **Chemist:** DD
Compounds/mixtures requested: A4
Deviations from Standard Method: None
Comments: Soil vapor analytes and abbreviations are tabulated in the Data Table Key (page 6). Modules 569668 and 569691 were analyzed in duplicate per STS consultant's request. Phenanthrene, anthracene, fluoranthene, and pyrene were quantified using calibration responses of fluorene.

GORE^{TM} Surveys - Final Report

GORE[TM] Surveys - Final Report

DATA TABULATION

 # CONTOUR MAPS ENCLOSED: Three (3) B-sized color contour maps
LIST OF MAPS ENCLOSED:

- Naphthalene (Naph)
- 2-Methyl naphthalene (2-MeNaph)
- Fluorene

NOTE: All data values presented in Appendix A represent masses of compound(s) desorbed from the GORE[TM] Modules received and analyzed by W.L. Gore & Associates, Inc., as identified in the Chain of Custody (Appendix A). The measurement traceability and instrument performance are reproducible and accurate for the measurement process documented. Semi-quantitation of the compound mass is based on a five-level standard calibration.

General Comments:
- This survey reports soil gas mass levels present in the vapor phase. Vapors are subject to a variety of attenuation factors during migration away from the source concentration to the module. Thus, mass levels reported from the module will often be less than concentrations reported in soil and groundwater matrix data. In most instances, the soil gas masses reported on the modules compare favorably with concentrations reported in the soil or groundwater (e.g., where soil gas levels are reported at greater levels relative to other sampled locations on the site, matrix data should reveal the same pattern, and vice versa). However, due to a variety of factors, a perfect comparison between matrix data and soil gas levels can rarely be achieved.
- Soil gas signals reported by this method cannot be identified specifically to soil adsorbed, groundwater, and/or free-product contamination. The soil gas signal reported from each module can evolve from all of these sources. Differentiation between soil and groundwater contamination can only be achieved with prior knowledge of the site history (i.e., the site is known to have groundwater contamination only).
- QA/QC trip blank modules were provided to document potential exposures that were not part of the soil gas signal of interest (i.e., impact during module shipment, installation and retrieval, and storage). The trip blanks are identically manufactured and packaged soil gas modules to those modules placed in the subsurface. However, the trip blanks remain unopened during all phases of the soil gas survey. Levels reported on the trip blanks may indicate potential impact to modules other than the contaminant source of interest.

- Unresolved peak envelopes (UPEs) are represented as a series of compound peaks clustered together around a central gas chromatograph elution time in the total ion chromatogram. Typically, UPEs are indicative of complex fluid mixtures that are present in the subsurface. UPEs observed early in the chromatogram are considered to indicate the presence of more volatile fluids, while UPEs observed later in the chromatogram may indicate the presence of less volatile fluids. Multiple UPEs may indicate the presence of multiple complex fluids.
- Stacked total ion chromatograms (TICs) are included in Appendix A. The six-digit serial number of each module is incorporated into the TIC identification (e.g.: 123456S.D represents module #123456).

Project Specific Comments:
- The minimum (gray) contour level, for each mapped analyte or group of analytes, was set at the maximum blank level observed or the method detection limit, whichever was greater. When target compounds are summed together (i.e., BTEX), the contour minimum is arbitrarily set at 0.02 µg or the maximum blank level, whichever is greater. The maximum contour level was set at the maximum value observed.
- No target compounds were detected above the method detection limit on the trip blanks and/or the method blanks. Thus, target analyte levels reported for the field-installed modules that exceed trip and method blank levels, and the analyte method detection limit, are more likely to have originated from on-site sources.
- In addition to results being reported in units of relative mass, estimated soil gas concentration values were reported. Calculations for concentration were performed using default porosity values for dry sandy loam soil, $0.39cm^3/cm^3$ total porosity and $0.126cm^3/cm^3$ water filled porosity. A summary of the procedure used to calculated concentrations is included in Appendix A.
- Contour maps were prepared using the estimated concentration values reported.
- The mapped spatial patterns indicated "hot spots" and partial soil gas plume delineation.
- If the objective of the soil gas survey was to delineate the nature and extent of the contamination, then additional soil gas sampling is recommended in those areas where the color contours appear to extend into unsampled areas. Subsequent sampling events can be combined with the data from this event and mapped together to provide greater coverage.

GORE^{TM} Surveys - Final Report

KEY TO DATA TABLE
Reilly Tar Site, St. Louis Park, MN

UNITS

µg	micrograms (per sorber), reported for compounds
MDL	method detection limit
bdl	below detection limit
nd	non-detect

ANALYTES

BTEX	combined masses of benzene, toluene, ethylbenzene and total xylenes (Gasoline Range Aromatics)
BENZ	benzene
TOL	toluene
EtBENZ	ethylbenzene
mpXYL	m-, p-xylene
oXYL	o-xylene
C11,C13&C15	combined masses of undecane, tridecane, and pentadecane (C11+C13+C15) (Diesel Range Alkanes)
UNDEC	undecane
TRIDEC	tridecane
PENTADEC	pentadecane
TMBs	combined masses of 1,3,5-trimethylbenzene and 1,2,4-trimethylbenzene
135TMB	1,3,5-trimethylbenzene
124TMB	1,2,4-trimethylbenzene
ct12DCE	cis- & trans-1,2-dichloroethene
t12DCE	trans-1,2-dichloroethene
c12DCE	cis-1,2-dichloroethene
NAPH&2-MN	combined masses of naphthalene and 2-methyl naphthalene
Combined PAHs	combined masses of naphthalene, 2-methyl naphthalene, acenaphthene, acenaphthylene, fluorene, phenanthrene, anthracene, fluoranthene, and pyrene.
NAPH	naphthalene
VC	vinyl chloride
2MeNAPH	2-methyl naphthalene
MTBE	methyl t-butyl ether
PHEN	phenanthrene
11DCA	1,1-dichloroethane
CHC1$_3$	chloroform
111TCA	1,1,1-trichloroethane
12DCA	1,2-dichloroethane
CC1$_4$	carbon tetrachloride
TCE	trichloroethene
OCT	octane
PCE	tetrachloroethene
ClBENZ	chlorobenzene
14DCB	1,4-dichlorobenzene
112TCA	1,1,2-trichloroethane
1112TetCA	1,1,1,2-tetrachloroethane
1122TetCA	1,1,2,2-tetrachloroethane
13DCB	1,3-dichlorobenzene
12DCB	1,2-dichlorobenzene

BLANKS

method blank	QA/QC module, documents analytical conditions during analysis

APPENDIX A:

1. CHAIN OF CUSTODY
2. DATA TABLE
3. STACKED TOTAL ION CHROMATOGRAMS
4. SUMMARY OF PROCEDURE FOR CALCULATING CONCENTRATIONS
5. COLOR CONTOUR MAPS

GORE-SORBER® Screening Survey Chain of Custody

For W.L. Gore & Associates use only
Production Order # _____13674768_____

GORE *Creative Technologies Worldwide*

W. L. Gore & Associates, Inc., Survey Products Group

100 Chesapeake Boulevard • Elkton, Maryland 21921 • Tel: (410) 392-7600 • Fax (410) 506-4780

Instructions: Customer must complete ALL shaded cells

Customer Name: STS CONSULTANTS				Site Name:	REILLY TAR SUPPER	
Address:	10900 73RD AVENUE NORTH			Site Address:	FUND ST LOUIS PARK MN	
	SUITE 150					
	MAPLE GROVE MN 55369 U.S.A.			Project Manager: PETER RZEPECKI		
Phone:	(736) 315-6345			Customer Project No.: 12266797		
FAX:				Customer P.O. #: 20080214 Quote #: 228876		

Serial # of Modules Shipped				# of Modules for Installation	36	# of Trip Blanks	4
# 569667	-	# 569706	#	- #	Total Modules Shipped:	40	Pieces
# 569667	-	# 569701	#	- #	Total Modules Received:	40	Pieces
#	- #		#	- #	Total Modules Installed:	33	Pieces
#	- #		#	- #	Serial # of Trip Blanks (Client Decides)	#	
#	- #		#	- #	# 569701-Trip	#	#
#	- #		#	- #	# 569699 - Field Blank	#	#
#	- #		#	- #	#	#	#
#	- #		#	- #	#	#	#
#	- #		#	- #	#	#	#
#	- #		#	- #	#	#	#
#	- #		#	- #	#	#	#
Prepared By: *Darlene Yellowdly*				#	#	#	
Verified By: *Darlene Yellowdly*				#	#	#	

Installation Performed By:		Installation Method(s) (circle those that apply):
Name (please print): Jason Rowe / Tim Grape		Slide Hammer (Hammer Drill) Auger
Company/Affiliation: STS		Other:

Installation Start Date and Time:	6 15 08	10:40	(AM) PM
Installation Complete Date and Time:	6 15 08	14:35	AM (PM)

Retrieval Performed By:		Total Modules Retrieved:	33	Pieces
Name (please print): Ryan Doherty / Tim Grape		Total Modules Lost in Field:	O	Pieces
Company/Affiliation:1 STS		Total Unused Modules Returned:	5	Pieces

Retrieval Start Date and Time:	6 16 08	12:25	AM (PM)
Retrieval Complete Date and Time:	6 17 08	11:40	(AM) PM

Relinquished By *Darlene Yellowdly*	Date	Time	Received By:	Date	Time
Affiliation: W.L. Gore & Associates, Inc.	5-23-08	7:00Am	Affiliation: STS	5/23/08	
Relinquished By *Tim Grape*	Date	Time	Received By:	Date	Time
Affiliation: STS	6/17/08	1400	Affiliation:		
Relinquished By	Date	Time	Received By: *Darlene Yellowdly*	Date	Time
Affiliation			Affiliation: W.L. Gore & Associates, Inc.	6/18/08	12:00

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GORE-SORBER® Screening Survey
Installation and Retrieval Log

2008 02141

Page 1 of 1

SITE NAME & LOCATION
Reilly Tar - St. Louis Park, MN

LINE #	MODULE #	INSTALLATION DATE/TIME	RETRIEVAL DATE/TIME	EVIDENCE OF LIQUID HYDROCARBONS (LPH) or HYDROCARBON ODOR (Check as appropriate)			MODULE IN WATER (check one)		COMMENTS Install Time (sec)
				LPH	ODOR	NONE	YES	NO	
1. 33	569667	6/5/08 10:40	6/16/08 1225			X		X	90
2. 32	569668	6/5/08 10:52	6/16/08 1232			X		X	70
3. 31	569669	6/5/08 11:04	6/16/08 1542			X		X	55
4. 30	569670	6/5/08 11:15	6/17/08 1020			X		X	50
5. 29	569671	6/5/08 11:26	6/16/08 1610			X		X	55
6. 28	569672	6/5/08 1135	6/16/08 1303			X		X	40
7. 27	569673	6/5/08 1145	6/16/08 1617			X		X	40	2.5'- max dep
8. 26	569674	6/5/08 1205	6/16/08 1315			X		X	50	2.5' max
9. 25	569675	6/5/08 1210	6/16/08 1320			X		X	50
10. 24	569676	6/5/08 1220	6/16/08 1622			X		X	45	2.5' max
11. 23	569677	6/5/08 1225	6/16/08 1328			X		X	40
12. 22	569678	6/6/08 1230	6/16/08 1833			X		X	75
13. 19	569679	6/5/08 1240	6/16/08 1337			X		X	35
14. 20	569680	6/5/08 1245	6/16/08 1342			X		X	60
15. 21	569681	6/5/08 1250	6/16/08 1626			X		X	35
16. 18	569682	6/5/08 1253	6/16/08 1352			X		X	50
17. 16	569683	6/5/08 1257	6/16/08 1255			X		X	45
18. 15	569684	6/5/08 1303	6/16/08 1401			X		X	40
19. 14	569685	6/5/08 1306	6/16/08 1407			X		X	55
20. 13	569686	6/5/08 1309	6/17/08 11:40			X		X	48
21. 17	569687	6/5/08 1315	6/16/08 1640			X		X	50
22. 12	569688	6/5/08 1320	6/16/08 1422			X		X	50
23. 11	569689	6/5/08 1330	6/17/08 11:00			X		X	35
24. 10	569690	6/5/08 1340	6/16/08 1439			X		X	45	2' max
25. 9	569691	6/5/08 1345	6/16/08 1449			X		X	35	3' max
26. 7	569692	6/5/08 1350	6/16/08 1700			X		X	40	2.5' max
27. 6	569693	6/5/08 1353	6/16/08 1704			X		X	40	2.5'
28. 5	569694	6/5/08 1357	6/16/08 1505			X		X	35	2.5'
29. 4	569695	6/5/08 1400	6/16/08 1708			X		X	40	2' max
30. 3	569696	6/5/08 1410	6/17/08 11:10			X		X	60	2.25 max
31. 2	569697	6/5/08 1415	6/16/08 1720			X		X	60	2.25 max
32. 1	569698	6/5/08 1420	6/16/08 1535			X		X	40
33. FB	569699	6/5/08 1422	Field Blank			—	—	—	60	Field Blank
34. 8	569700	6/5/08 1435	6/16/08 1726			X		X	70
35.	569701	STORAGE	—						TRIP BLANK
36.	569702								
37.	569703								
38.	569704								
39.	569705								
40.	569706								
41.									
42.									

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1/08/0

DATE ANALYZED	SAMPLE NAME	TPH, ug	BTEX, ug	BENZ, ug	TOL, ug	ETBENZ, ug	mpXYL, ug	oXYL, ug	C11, C13, &C15, ug	UNDEC, ug	TRIDEC, ug
	MDL=			0.01	0.01	0.01	0.01	0.01		0.01	0.01
06-28-08	569667	0.07	0.03	0.03	nd	nd	nd	nd	nd	nd	nd
06-28-08	569668	8.47	2.78	0.09	0.31	0.44	1.19	0.75	0.27	0.19	0.05
06-28-08	569668	12.80	3.05	0.24	0.44	0.49	1.16	0.72	0.51	0.35	0.11
06-28-08	569669	0.10	0.02	0.02	nd	nd	nd	nd	0.06	0.06	nd
06-27-08	569670	0.52	0.08	0.04	0.04	nd	nd	nd	nd	nd	nd
06-27-08	569671	1.04	0.13	0.05	0.08	nd	nd	nd	0.03	nd	0.01
06-27-08	569672	0.18	0.03	0.03	nd	nd	nd	nd	nd	nd	nd
06-27-08	569673	0.07	0.05	0.05	nd	nd	nd	nd	nd	nd	nd
06-28-08	569674	0.04	0.03	0.03	nd	nd	nd	nd	nd	nd	nd
06-28-08	569675	1.70	0.07	0.05	nd	nd	0.01	0.01	0.03	nd	0.01
06-27-08	569676	1.43	nd	nd	nd	nd	nd	nd	0.02	0.01	nd
06-28-08	569677	0.07	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-27-08	569678	2.83	0.02	0.02	nd	nd	nd	nd	0.02	0.01	nd
06-27-08	569679	1.22	0.16	0.02	0.02	0.02	0.06	0.04	0.02	0.01	nd
06-27-08	569680	0.49	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-28-08	569681	34.20	0.97	0.08	0.09	0.02	0.30	0.48	1.04	0.29	0.33
06-28-08	569682	0.75	0.03	0.03	nd	nd	nd	nd	nd	nd	nd
06-27-08	569683	6.70	0.15	0.04	0.05	0.01	0.03	0.02	0.02	0.01	nd
06-28-08	569684	0.04	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-27-08	569685	0.04	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-28-08	569686	0.50	0.02	0.02	nd	nd	nd	nd	0.01	nd	nd
06-28-08	569687	0.35	nd	nd	nd	nd	nd	nd	0.02	0.02	nd
06-27-08	569688	12.49	nd	nd	nd	nd	nd	nd	10.40	10.19	0.09
06-28-08	569689	0.24	0.05	0.05	nd	nd	nd	nd	nd	nd	nd
06-28-08	569690	1.16	nd	nd	nd	nd	nd	nd	0.10	0.09	0.01
06-28-08	569691	0.30	0.05	0.05	nd	nd	nd	nd	0.14	0.14	nd
06-28-08	569691	1.29	0.02	0.02	nd	nd	nd	nd	0.90	0.89	0.01
06-28-08	569692	0.32	0.03	0.03	nd	nd	nd	nd	nd	nd	nd
06-28-08	569693	0.16	0.02	0.02	nd	nd	nd	nd	nd	nd	nd
06-27-08	569694	0.65	0.17	0.03	0.06	0.02	0.02	0.04	nd	nd	nd
06-28-08	569695	1.40	0.08	nd	0.04	0.01	0.02	0.01	0.03	0.01	0.01
06-27-08	569696	0.50	0.04	0.04	nd	nd	nd	nd	nd	nd	nd
06-28-08	569697	0.29	0.03	nd	nd	nd	0.02	0.01	nd	nd	nd
06-27-08	569698	2.61	0.21	0.03	0.05	0.02	0.07	0.04	0.06	0.03	0.01

No mdl is available for summed combinations of analytes. In summed
columns (eg., BTEX), the reported values should be considered
ESTIMATED if any of the individual compounds were reported as bdl.

EJFcust.xls

DATE ANALYZED	SAMPLE NAME	TPH, ug	BTEX, ug	BENZ, ug	TOL, ug	ETBENZ, ug	mpXYL, ug	oXYL, ug	C11, C13, &C15, ug	UNDEC, ug	TRIDEC, ug
	MDL=			0.01	0.01	0.01	0.01	0.01		0.01	0.01
06-27-08	569700	0.09	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-28-08	569699	0.00	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-27-08	569701	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-27-08	method blank	0.00	nd	nd	nd	nd	nd	nd	nd	nd	nd
06-28-08	method blank	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
	Maximum	34.20	3.05	0.24	0.44	0.49	1.19	0.75	10.40	10.19	0.33
	Standard Dev.	6.37	0.69	0.04	0.09	0.11	0.28	0.19	1.76	1.72	0.06
	Mean	2.72	0.24	0.03	0.03	0.03	0.08	0.06	0.39	0.35	0.02

No mdl is available for summed combinations of analytes. In summed columns (eg., BTEX), the reported values should be considered ESTIMATED if any of the individual compounds were reported as bdl.

EJFcust.xls

GORE(TM) SURVEYS ANALYTICAL RESULTS
STS CONSULTANTS, MAPLE GROVE, MN
GORE STANDARD VOC/SVOC TARGET COMPOUNDS PLUS ADDITIONAL PAHs (A4)
REILLY TAR - ST. LOUIS PARK, MN
SITE EJF - PRODUCTION ORDER #13674768

SAMPLE NAME	PENTADEC, ug	TMBs, ug	124TMB, ug	135TMB, ug	ct12DCE, ug	t12DCE, ug	c12DCE, ug	Combined PAHs, ug	NAPH&2-MN, ug
MDL=	0.01		0.01	0.01		0.02	0.02		
569667	nd	nd	nd	nd	nd	nd	nd	0.09	0.07
569668	0.03	3.09	1.39	1.70	nd	nd	nd	38.10	14.04
569668	0.05	2.69	1.18	1.51	nd	nd	nd	62.06	24.47
569669	nd	0.01	0.01	nd	nd	nd	nd	0.43	0.29
569670	nd	0.01	0.01	nd	nd	nd	nd	6.58	0.47
569671	0.02	0.01	0.01	nd	nd	nd	nd	0.56	0.06
569672	nd	nd	nd	nd	nd	nd	nd	0.04	0.03
569673	nd	nd	nd	nd	nd	nd	nd	0.18	0.04
569674	nd	nd	nd	nd	nd	nd	nd	0.08	nd
569675	0.02	0.02	0.02	nd	nd	nd	nd	0.78	0.19
569676	0.01	nd	nd	nd	nd	nd	nd	0.17	0.04
569677	nd	nd	nd	nd	nd	nd	nd	0.40	0.19
569678	0.01	nd	nd	nd	0.02	nd	0.02	0.76	0.16
569679	0.01	0.03	0.02	0.01	nd	nd	nd	3.67	0.63
569680	nd	nd	nd	nd	nd	nd	nd	nd	nd
569681	0.42	5.60	1.84	3.76	nd	nd	nd	163.54	49.03
569682	nd	nd	nd	nd	nd	nd	nd	0.53	0.27
569683	0.01	0.08	0.05	0.03	nd	nd	nd	3.22	0.61
569684	nd	nd	nd	nd	nd	nd	nd	0.09	nd
569685	nd	nd	nd	nd	nd	nd	nd	0.00	nd
569686	0.01	nd	nd	nd	nd	nd	nd	0.12	0.02
569687	nd	nd	nd	nd	nd	nd	nd	0.92	0.06
569688	0.12	nd	nd	nd	nd	nd	nd	0.02	nd
569689	nd	nd	nd	nd	nd	nd	nd	0.01	nd
569690	nd	nd	nd	nd	nd	nd	nd	4.36	0.72
569691	nd	nd	nd	nd	nd	nd	nd	0.04	nd
569691	nd	nd	nd	nd	nd	nd	nd	0.08	0.01
569692	nd	nd	nd	nd	nd	nd	nd	0.26	0.04
569693	nd	nd	nd	nd	nd	nd	nd	0.10	0.05
569694	nd	0.04	0.01	0.03	nd	nd	nd	4.02	0.85
569695	0.01	0.02	0.01	0.01	0.00	nd	bdl	1.13	0.26
569696	nd	nd	nd	nd	nd	nd	nd	0.28	0.12
569697	nd	nd	nd	nd	nd	nd	nd	0.08	nd
569698	0.02	0.11	0.08	0.03	nd	nd	nd	9.77	0.87

No mdl is available for summed combinations of analytes. In summed
columns (eg., BTEX), the reported values should be considered
ESTIMATED if any of the individual compounds were reported as bdl.

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GORE(TM) SURVEYS ANALYTICAL RESULTS
STS CONSULTANTS, MAPLE GROVE, MN
GORE STANDARD VOC/SVOC TARGET COMPOUNDS PLUS ADDITIONAL PAHs (A4)
REILLY TAR - ST. LOUIS PARK, MN
SITE EJF - PRODUCTION ORDER #13674768

SAMPLE NAME	PENTADEC, ug	TMBs, ug	124TMB, ug	135TMB, ug	ct12DCE, ug	t12DCE, ug	c12DCE, ug	Combined PAHs, ug	NAPH&2-MN, ug
MDL=	0.01		0.01	0.01		0.02	0.02		
569700	nd	nd	nd	nd	nd	nd	nd	nd	nd
569699	nd	nd	nd	nd	nd	nd	nd	nd	nd
569701	nd	nd	nd	nd	nd	nd	nd	nd	nd
method blank	nd	nd	nd	nd	nd	nd	nd	nd	nd
method blank	nd	nd	nd	nd	nd	nd	nd	nd	nd
Maximum	0.42	5.60	1.84	3.76	0.02	0.00	0.02	163.54	49.03
Standard Dev.	0.07	1.14	0.42	0.73	0.00	0.00	0.00	29.52	9.32
Mean	0.02	0.33	0.13	0.20	0.00	0.00	0.00	8.64	2.67

No mdl is available for summed combinations of analytes. In summed
columns (eg., BTEX), the reported values should be considered
ESTIMATED if any of the individual compounds were reported as bdl.

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SAMPLE NAME	NAPH, ug	2MeNAPH, ug	MTBE, ug	11DCE, ug	11DCA, ug	111TCA, ug	12DCA, ug	TCE, ug	OCT, ug	PCE, ug	14DCB, ug
MDL=	0.02	0.01	0.02	0.02	0.05	0.02	0.01	0.01	0.01	0.02	0.01
569667	0.07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
569668	10.83	3.21	nd	nd	nd	nd	nd	nd	0.01	nd	nd
569668	16.46	8.01	bdl	nd	nd	nd	nd	nd	0.01	bdl	nd
569669	0.26	0.03	nd	nd	nd	nd	nd	nd	nd	nd	nd
569670	0.21	0.26	nd	nd	nd	nd	nd	nd	nd	nd	nd
569671	0.04	0.02	nd	nd	nd	nd	nd	nd	nd	nd	nd
569672	nd	0.03	bdl	nd	nd	nd	nd	nd	nd	nd	nd
569673	0.03	0.01	bdl	nd	nd	nd	nd	nd	nd	nd	nd
569674	nd	nd	bdl	nd	nd	nd	nd	nd	nd	nd	nd
569675	0.14	0.05	bdl	nd	nd	nd	nd	nd	nd	nd	nd
569676	0.03	0.01	nd	nd	nd	nd	nd	nd	nd	0.02	nd
569677	0.14	0.05	nd	nd	nd	nd	nd	nd	nd	nd	nd
569678	0.13	0.03	nd	nd	nd	nd	nd	nd	nd	nd	nd
569679	0.45	0.18	nd	nd	nd	nd	nd	nd	nd	nd	nd
569680	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
569681	18.90	30.13	nd	nd	nd	nd	nd	nd	nd	nd	nd
569682	0.19	0.08	nd	nd	nd	nd	nd	nd	nd	nd	nd
569683	0.38	0.23	nd	nd	nd	nd	nd	nd	0.02	nd	nd
569684	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
569685	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
569686	0.02	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
569687	0.03	0.03	nd	nd	nd	nd	nd	nd	nd	nd	nd
569688	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
569689	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
569690	0.25	0.47	nd	nd	nd	nd	nd	nd	nd	nd	nd
569691	nd	nd	bdl	nd	nd	nd	nd	0.01	nd	0.02	nd
569691	nd	0.01	nd	nd	nd	nd	nd	nd	nd	nd	nd
569692	0.03	0.01	nd	nd	nd	nd	nd	nd	nd	bdl	nd
569693	0.04	0.01	bdl	nd	nd	nd	nd	nd	nd	nd	nd
569694	0.58	0.27	bdl	nd	nd	nd	nd	nd	nd	nd	nd
569695	0.21	0.05	nd	nd	nd	nd	nd	nd	nd	0.04	nd
569696	0.09	0.03	nd	nd	nd	nd	nd	nd	nd	nd	nd
569697	nd	nd	bdl	nd	nd	nd	nd	nd	nd	nd	nd
569698	0.70	0.17	bdl	nd	nd	nd	nd	nd	nd	nd	nd

No mdl is available for summed combinations of analytes. In summed columns (eg., BTEX), the reported values should be considered ESTIMATED if any of the individual compounds were reported as bdl.

EJFcust.xls

GORE(TM) SURVEYS ANALYTICAL RESULTS
STS CONSULTANTS, MAPLE GROVE, MN
GORE STANDARD VOC/SVOC TARGET COMPOUNDS PLUS ADDITIONAL PAHs (A4)
REILLY TAR - ST. LOUIS PARK, MN
SITE EJF - PRODUCTION ORDER #13674768

SAMPLE NAME	NAPH, ug	2MeNAPH, ug	MTBE, ug	11DCE, ug	11DCA, ug	111TCA, ug	12DCA, ug	TCE, ug	OCT, ug	PCE, ug	14DCB, ug
MDL=	0.02	0.01	0.02	0.02	0.05	0.02	0.01	0.01	0.01	0.02	0.01
569700	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
569699	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
569701	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
method blank	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
method blank	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Maximum	18.90	30.13	0.01	0.00	0.00	0.00	0.00	0.01	0.02	0.04	0.00
Standard Dev.	4.46	5.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Mean	1.43	1.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

No mdl is available for summed combinations of analytes. In summed
columns (eg., BTEX), the reported values should be considered
ESTIMATED if any of the individual compounds were reported as bdl.

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SAMPLE NAME	Acenaphthene, ug	Acenaphthylene, ug	Fluorene, ug	PHEN (TIC), ug	Anthracene (TIC), ug	Fluoranthene (TIC), ug	Pyrene (TIC), ug
MDL=	0.01	0.02	0.02	0.02	0.02	0.02	0.02
569667	0.02	nd	nd	nd	nd	nd	nd
569668	7.42	0.11	4.35	6.72	3.43	1.31	0.72
569668	15.15	0.21	7.05	8.98	4.00	1.43	0.77
569669	0.05	nd	0.02	0.03	0.02	0.02	bdl
569670	2.97	0.04	0.96	1.08	0.45	0.39	0.22
569671	0.04	bdl	0.05	0.19	0.06	0.10	0.06
569672	0.01	nd	bdl	nd	nd	nd	nd
569673	0.01	nd	nd	0.04	0.02	0.04	0.03
569674	0.01	nd	nd	0.03	nd	0.02	0.02
569675	0.11	bdl	0.04	0.19	0.05	0.10	0.10
569676	0.02	nd	bdl	0.04	nd	0.04	0.03
569677	0.03	bdl	bdl	0.09	0.02	0.03	0.04
569678	0.18	bdl	0.05	0.12	0.04	0.11	0.10
569679	0.28	0.03	0.23	0.88	0.37	0.83	0.42
569680	nd	nd	nd	nd	nd	nd	nd
569681	15.85	14.77	28.86	36.24	9.52	5.67	3.60
569682	0.03	0.02	0.06	0.09	0.02	0.02	0.02
569683	0.15	bdl	0.07	0.25	0.64	0.97	0.53
569684	0.01	nd	nd	0.02	0.02	0.02	0.02
569685	nd	nd	nd	nd	nd	nd	bdl
569686	0.02	nd	bdl	0.02	bdl	0.03	0.03
569687	0.04	0.02	0.09	0.33	0.14	0.14	0.10
569688	nd	nd	nd	nd	nd	0.02	bdl
569689	0.01	nd	nd	nd	nd	nd	nd
569690	0.15	0.11	0.56	1.42	1.17	0.14	0.09
569691	0.01	nd	nd	0.03	nd	bdl	bdl
569691	0.01	nd	nd	0.04	0.02	bdl	bdl
569692	0.02	nd	0.02	0.08	0.04	0.03	0.03
569693	0.02	nd	bdl	0.03	nd	bdl	bdl
569694	0.94	bdl	0.36	1.05	0.26	0.35	0.21
569695	0.13	bdl	0.07	0.30	0.20	0.10	0.07
569696	0.03	nd	bdl	0.03	0.03	0.04	0.03
569697	nd	nd	nd	0.02	0.02	0.02	0.02
569698	6.66	0.05	0.47	0.24	0.51	0.57	0.40

No mdl is available for summed combinations of analytes. In summed columns (eg., BTEX), the reported values should be considered ESTIMATED if any of the individual compounds were reported as bdl.

SAMPLE NAME	Acenaphthene, ug	Acenaphthylene, ug	Fluorene, ug	PHEN (TIC), ug	Anthracene (TIC), ug	Fluoranthene (TIC), ug	Pyrene (TIC), ug
MDL=	0.01	0.02	0.02	0.02	0.02	0.02	0.02
569700	nd	nd	nd	nd	nd	nd	nd
569699	nd	nd	nd	nd	nd	nd	nd
569701	nd	nd	nd	nd	nd	nd	nd
method blank	nd	nd	nd	nd	nd	nd	nd
method blank	nd	nd	nd	nd	nd	nd	nd
Maximum	15.85	14.77	28.86	36.24	9.52	5.67	3.60
Standard Dev.	3.90	2.49	5.00	6.29	1.78	1.00	0.62
Mean	1.44	0.44	1.24	1.67	0.60	0.36	0.22

No mdl is available for summed combinations of analytes. In summed
columns (eg., BTEX), the reported values should be considered
ESTIMATED if any of the individual compounds were reported as bdl.

EJFcust.xls

GORE(TM) SURVEYS ANALYTICAL RESULTS
STS CONSULTANTS, MAPLE GROVE, MN
GORE STANDARD VOC/SVOC TARGET COMPOUNDS PLUS ADDITIONAL PAHs (A4)
REILLY TAR - ST. LOUIS PARK, MN
SITE EJF - PRODUCTION ORDER #13674768

SAMPLE NAME	CHCl3, ug	CCl4, ug	112TCA, ug	ClBENZ, ug	1112TetCA, ug	1122TetCA, ug	13DCB, ug	12DCB, ug
MDL=	0.05	0.05	0.05	0.01	0.01	0.05	0.01	0.05
569667	nd	nd	nd	nd	nd	nd	nd	nd
569668	nd	nd	nd	nd	nd	nd	nd	nd
569668	nd	nd	nd	nd	nd	nd	nd	nd
569669	nd	nd	nd	nd	nd	nd	nd	nd
569670	nd	nd	nd	nd	nd	nd	nd	nd
569671	nd	nd	nd	nd	nd	nd	nd	nd
569672	nd	nd	nd	nd	nd	nd	nd	nd
569673	nd	nd	nd	nd	nd	nd	nd	nd
569674	nd	nd	nd	nd	nd	nd	nd	nd
569675	nd	nd	nd	nd	nd	nd	nd	nd
569676	nd	nd	nd	nd	nd	nd	nd	nd
569677	nd	nd	nd	nd	nd	nd	nd	nd
569678	nd	nd	nd	nd	nd	nd	nd	nd
569679	nd	nd	nd	nd	nd	nd	nd	nd
569680	nd	nd	nd	nd	nd	nd	nd	nd
569681	nd	nd	nd	nd	nd	nd	nd	nd
569682	nd	nd	nd	nd	nd	nd	nd	nd
569683	nd	nd	nd	nd	nd	nd	nd	nd
569684	nd	nd	nd	nd	nd	nd	nd	nd
569685	nd	nd	nd	nd	nd	nd	nd	nd
569686	nd	nd	nd	nd	nd	nd	nd	nd
569687	nd	nd	nd	nd	nd	nd	nd	nd
569688	nd	nd	nd	nd	nd	nd	nd	nd
569689	nd	nd	nd	nd	nd	nd	nd	nd
569690	nd	nd	nd	nd	nd	nd	nd	nd
569691	nd	nd	nd	nd	nd	nd	nd	nd
569691	nd	nd	nd	nd	nd	nd	nd	nd
569692	nd	nd	nd	nd	nd	nd	nd	nd
569693	nd	nd	nd	nd	nd	nd	nd	nd
569694	nd	nd	nd	nd	nd	nd	nd	nd
569695	nd	nd	nd	nd	nd	nd	nd	nd
569696	nd	nd	nd	nd	nd	nd	nd	nd
569697	nd	nd	nd	nd	nd	nd	nd	nd
569698	nd	nd	nd	nd	nd	nd	nd	nd

No mdl is available for summed combinations of analytes. In summed
columns (eg., BTEX), the reported values should be considered
ESTIMATED if any of the individual compounds were reported as bdl.

EJFcust.xls

SAMPLE NAME	CHCl3, ug	CCl4, ug	112TCA, ug	ClBENZ, ug	1112TetCA, ug	1122TetCA, ug	13DCB, ug	12DCB, ug
MDL=	0.05	0.05	0.05	0.01	0.01	0.05	0.01	0.05
569700	nd	nd	nd	nd	nd	nd	nd	nd
569699	nd	nd	nd	nd	nd	nd	nd	nd
569701	nd	nd	nd	nd	nd	nd	nd	nd
method blank	nd	nd	nd	nd	nd	nd	nd	nd
method blank	nd	nd	nd	nd	nd	nd	nd	nd
Maximum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Standard Dev.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mean	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

No mdl is available for summed combinations of analytes. In summed
columns (eg., BTEX), the reported values should be considered
ESTIMATED if any of the individual compounds were reported as bdl.

EJFcust.xls

GORE(TM) SURVEYS ANALYTICAL RESULTS
STS CONSULTANTS, MAPLE GROVE, MN
GORE STANDARD VOC/SVOC TARGET COMPOUNDS PLUS ADDITIONAL PAHs (A4)
ESTIMATED CONCENTRATIONS
REILLY TAR - ST. LOUIS PARK, MN
SITE EJF - PRODUCTION ORDER #13674768

DATE ANALYZED	SAMPLE NAME	TPH, ug/m^3	BTEX, ug/m^3	BENZ, ug/m^3	TOL, ug/m^3	ETBENZ, ug/m^3	mpXYL, ug/m^3	oXYL, ug/m^3	C11, C13, &C15, ug/m^3
	MDL=	0.82		0.24	0.24	0.55	0.61	0.49	
06-28-08	569667	3.07	0.72	0.72	nd	nd	nd	nd	nd
06-28-08	569668	350.61	144.33	2.16	7.64	24.36	73.09	37.07	10.23
06-28-08	569668	529.66	150.58	5.77	10.85	27.13	71.24	35.59	19.30
06-28-08	569669	4.26	0.48	0.48	nd	nd	nd	nd	2.23
06-27-08	569670	21.69	1.97	0.97	1.00	nd	nd	nd	nd
06-27-08	569671	42.55	3.14	1.19	1.95	nd	nd	nd	0.79
06-27-08	569672	7.27	0.72	0.72	nd	nd	nd	nd	nd
06-27-08	569673	3.06	1.19	1.19	nd	nd	nd	nd	nd
06-28-08	569674	1.86	0.72	0.72	nd	nd	nd	nd	nd
06-28-08	569675	70.66	2.31	1.20	nd	nd	0.62	0.50	1.18
06-27-08	569676	58.76	nd	nd	nd	nd	nd	nd	0.77
06-28-08	569677	2.84	nd	nd	nd	nd	nd	nd	nd
06-27-08	569678	117.41	0.48	0.48	nd	nd	nd	nd	0.78
06-27-08	569679	50.69	7.76	0.48	0.49	1.11	3.70	1.98	0.78
06-27-08	569680	20.52	nd	nd	nd	nd	nd	nd	nd
06-28-08	569681	1405.48	47.06	1.91	2.20	1.10	18.29	23.55	39.83
06-28-08	569682	31.09	0.72	0.72	nd	nd	nd	nd	nd
06-27-08	569683	278.09	5.59	0.96	1.24	0.56	1.85	0.99	0.78
06-28-08	569684	1.61	nd	nd	nd	nd	nd	nd	nd
06-27-08	569685	1.57	nd	nd	nd	nd	nd	nd	nd
06-28-08	569686	19.14	0.45	0.45	nd	nd	nd	nd	0.00
06-28-08	569687	14.53	nd	nd	nd	nd	nd	nd	0.75
06-27-08	569688	518.26	nd	nd	nd	nd	nd	nd	392.55
06-28-08	569689	9.14	1.12	1.12	nd	nd	nd	nd	nd
06-28-08	569690	48.18	nd	nd	nd	nd	nd	nd	3.77
06-28-08	569691	12.53	1.20	1.20	nd	nd	nd	nd	5.28
06-28-08	569691	53.33	0.48	0.48	nd	nd	nd	nd	33.94
06-28-08	569692	13.28	0.72	0.72	nd	nd	nd	nd	nd
06-28-08	569693	6.75	0.48	0.48	nd	nd	nd	nd	nd
06-27-08	569694	26.82	6.53	0.72	1.48	1.11	1.23	1.98	nd
06-28-08	569695	57.80	3.24	nd	0.98	0.55	1.22	0.49	1.15
06-27-08	569696	19.39	0.90	0.90	nd	nd	nd	nd	nd
06-28-08	569697	12.11	1.71	nd	nd	nd	1.22	0.49	nd
06-27-08	569698	108.23	9.35	0.72	1.23	1.11	4.31	1.98	2.31

No mdl is available for summed combinations of analytes. In summed columns (eg., BTEX), the reported values should be considered ESTIMATED if any of the individual compounds were reported as bdl.

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GORE(TM) SURVEYS ANALYTICAL RESULTS
STS CONSULTANTS, MAPLE GROVE, MN
GORE STANDARD VOC/SVOC TARGET COMPOUNDS PLUS ADDITIONAL PAHs (A4)
ESTIMATED CONCENTRATIONS
REILLY TAR - ST. LOUIS PARK, MN
SITE EJF - PRODUCTION ORDER #13674768

DATE ANALYZED	SAMPLE NAME	TPH, ug/m^3	BTEX, ug/m^3	BENZ, ug/m^3	TOL, ug/m^3	ETBENZ, ug/m^3	mpXYL, ug/m^3	oXYL, ug/m^3	C11, C13, &C15, ug/m^3
	MDL=	0.82		0.24	0.24	0.55	0.61	0.49	
06-27-08	569700	3.70	nd	nd	nd	nd	nd	nd	nd
06-28-08	569699	bdl	nd	nd	nd	nd	nd	nd	nd
06-27-08	569701	nd	nd	nd	nd	nd	nd	nd	nd
06-27-08	method blank	bdl	nd	nd	nd	nd	nd	nd	nd
06-28-08	method blank	nd	nd	nd	nd	nd	nd	nd	nd
	Maximum	1405.48	150.58	5.77	10.85	27.13	73.09	37.07	392.55
	Standard Dev.	262.09	34.96	1.03	2.22	6.04	17.06	9.23	66.37
	Mean	112.17	11.26	0.76	0.83	1.63	5.05	2.99	14.75

No mdl is available for summed combinations of analytes. In summed columns (eg., BTEX), the reported values should be considered ESTIMATED if any of the individual compounds were reported as bdl.

GORE(TM) SURVEYS ANALYTICAL RESULTS
STS CONSULTANTS, MAPLE GROVE, MN
GORE STANDARD VOC/SVOC TARGET COMPOUNDS PLUS ADDITIONAL PAHs (A4)
ESTIMATED CONCENTRATIONS
REILLY TAR - ST. LOUIS PARK, MN
SITE EJF - PRODUCTION ORDER #13674768

SAMPLE NAME	UNDEC, ug/m^3	TRIDEC, ug/m^3	PENTADEC, ug/m^3	TMBs, ug/m^3	124TMB, ug/m^3	135TMB, ug/m^3	ct12DCE, ug/m^3	t12DCE, ug/m^3
MDL=	0.37	0.37	0.40		0.44	0.32		0.61
569667	nd	nd	nd	nd	nd	nd	nd	nd
569668	7.15	1.88	1.20	116.91	62.27	54.64	nd	nd
569668	13.17	4.13	2.00	101.39	52.86	48.54	nd	nd
569669	2.23	nd	nd	0.00	bdl	nd	nd	nd
569670	nd	nd	nd	0.45	0.45	nd	nd	nd
569671	nd	bdl	0.79	0.00	bdl	nd	nd	nd
569672	nd	nd	nd	nd	nd	nd	nd	nd
569673	nd	nd	nd	nd	nd	nd	nd	nd
569674	nd	nd	nd	nd	nd	nd	nd	nd
569675	nd	0.38	0.80	0.90	0.90	nd	nd	nd
569676	0.37	nd	0.40	nd	nd	nd	nd	nd
569677	nd	nd	nd	nd	nd	nd	nd	nd
569678	0.38	nd	0.40	nd	nd	nd	0.60	nd
569679	0.38	nd	0.40	1.22	0.90	0.32	nd	nd
569680	nd	nd	nd	nd	nd	nd	nd	nd
569681	10.83	12.31	16.69	201.81	81.83	119.99	nd	nd
569682	nd	nd	nd	nd	nd	nd	nd	nd
569683	0.38	nd	0.40	3.21	2.25	0.97	nd	nd
569684	nd	nd	nd	nd	nd	nd	nd	nd
569685	nd	nd	nd	nd	nd	nd	nd	nd
569686	nd	nd	bdl	nd	nd	nd	nd	nd
569687	0.75	nd	nd	nd	nd	nd	nd	nd
569688	384.34	3.39	4.82	nd	nd	nd	nd	nd
569689	nd	nd	nd	nd	nd	nd	nd	nd
569690	3.40	0.38	nd	nd	nd	nd	nd	nd
569691	5.28	nd	nd	nd	nd	nd	nd	nd
569691	33.56	0.38	nd	nd	nd	nd	nd	nd
569692	nd	nd	nd	nd	nd	nd	nd	nd
569693	nd	nd	nd	nd	nd	nd	nd	nd
569694	nd	nd	nd	1.42	0.45	0.97	nd	nd
569695	0.37	0.37	0.40	0.77	0.45	0.32	0.00	nd
569696	nd	nd	nd	nd	nd	nd	nd	nd
569697	nd	nd	nd	nd	nd	nd	nd	nd
569698	1.13	0.38	0.80	4.56	3.59	0.97	nd	nd

No mdl is available for summed combinations of analytes. In summed columns (eg., BTEX), the reported values should be considered ESTIMATED if any of the individual compounds were reported as bdl.

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GORE(TM) SURVEYS ANALYTICAL RESULTS
STS CONSULTANTS, MAPLE GROVE, MN
GORE STANDARD VOC/SVOC TARGET COMPOUNDS PLUS ADDITIONAL PAHs (A4)
ESTIMATED CONCENTRATIONS
REILLY TAR - ST. LOUIS PARK, MN
SITE EJF - PRODUCTION ORDER #13674768

SAMPLE NAME	UNDEC, ug/m^3	TRIDEC, ug/m^3	PENTADEC, ug/m^3	TMBs, ug/m^3	124TMB, ug/m^3	135TMB, ug/m^3	ct12DCE, ug/m^3	t12DCE, ug/m^3
MDL=	0.37	0.37	0.40		0.44	0.32		0.61
569700	nd	nd	nd	nd	nd	nd	nd	nd
569699	nd	nd	nd	nd	nd	nd	nd	nd
569701	nd	nd	nd	nd	nd	nd	nd	nd
method blank	nd	nd	nd	nd	nd	nd	nd	nd
method blank	nd	nd	nd	nd	nd	nd	nd	nd
Maximum	384.34	12.31	16.69	201.81	81.83	119.99	0.60	0.00
Standard Dev.	64.87	2.22	2.90	41.79	18.92	23.18	0.10	0.00
Mean	13.25	0.68	0.84	12.36	5.91	6.48	0.02	0.00

No mdl is available for summed combinations of analytes. In summed
columns (eg., BTEX), the reported values should be considered
ESTIMATED if any of the individual compounds were reported as bdl.

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GORE(TM) SURVEYS ANALYTICAL RESULTS
STS CONSULTANTS, MAPLE GROVE, MN
GORE STANDARD VOC/SVOC TARGET COMPOUNDS PLUS ADDITIONAL PAHs (A4)
ESTIMATED CONCENTRATIONS
REILLY TAR - ST. LOUIS PARK, MN
SITE EJF - PRODUCTION ORDER #13674768

SAMPLE NAME	c12DCE, ug/m^3	Combined PAHs, ug/m^3	NAPH&2-MN, ug/m^3	NAPH, ug/m^3	2MeNAPH, ug/m^3	MTBE, ug/m^3	11DCE, ug/m^3	11DCA, ug/m^3
MDL=	0.59			0.79	0.35	0.40	2.14	1.47
569667	nd	3.80	2.80	2.80	nd	nd	nd	nd
569668	nd	1572.18	545.86	432.68	113.17	nd	nd	nd
569668	nd	2584.83	940.02	657.62	282.40	bdl	nd	nd
569669	nd	14.97	11.32	10.27	1.05	nd	nd	nd
569670	nd	293.69	17.73	8.47	9.26	nd	nd	nd
569671	nd	22.02	2.28	1.58	0.70	nd	nd	nd
569672	nd	1.56	1.06	nd	1.06	bdl	nd	nd
569673	nd	5.44	1.19	1.19	bdl	bdl	nd	nd
569674	nd	3.24	nd	nd	nd	bdl	nd	nd
569675	nd	31.69	7.37	5.60	1.77	bdl	nd	nd
569676	nd	6.79	1.54	1.19	0.35	nd	nd	nd
569677	nd	15.93	7.37	5.61	1.77	nd	nd	nd
569678	0.60	31.79	6.27	5.21	1.06	nd	nd	nd
569679	nd	147.47	24.39	18.03	6.36	nd	nd	nd
569680	nd	nd	nd	nd	nd	nd	nd	nd
569681	nd	6854.69	1804.23	749.64	1054.59	nd	nd	nd
569682	nd	21.55	10.44	7.61	2.83	nd	nd	nd
569683	nd	127.23	23.35	15.22	8.13	nd	nd	nd
569684	nd	3.64	nd	nd	nd	nd	nd	nd
569685	nd	0.00	nd	nd	nd	nd	nd	nd
569686	nd	3.11	0.00	bdl	nd	nd	nd	nd
569687	nd	36.91	2.26	1.20	1.06	nd	nd	nd
569688	nd	0.78	nd	nd	nd	nd	nd	nd
569689	nd	0.00	nd	nd	nd	nd	nd	nd
569690	nd	174.06	26.63	10.01	16.61	nd	nd	nd
569691	nd	1.68	nd	nd	nd	bdl	nd	nd
569691	nd	3.21	0.35	nd	0.35	nd	nd	nd
569692	nd	10.31	1.54	1.19	0.35	nd	nd	nd
569693	nd	4.11	1.94	1.59	0.35	bdl	nd	nd
569694	nd	167.41	32.76	23.22	9.54	bdl	nd	nd
569695	bdl	45.34	10.10	8.34	1.75	nd	nd	nd
569696	nd	10.48	4.34	3.35	0.99	nd	nd	nd
569697	nd	3.11	nd	nd	nd	bdl	nd	nd
569698	nd	458.95	34.01	28.01	6.00	bdl	nd	nd

No mdl is available for summed combinations of analytes. In summed
columns (eg., BTEX), the reported values should be considered
ESTIMATED if any of the individual compounds were reported as bdl.

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GORE(TM) SURVEYS ANALYTICAL RESULTS
STS CONSULTANTS, MAPLE GROVE, MN
GORE STANDARD VOC/SVOC TARGET COMPOUNDS PLUS ADDITIONAL PAHs (A4)
ESTIMATED CONCENTRATIONS
REILLY TAR - ST. LOUIS PARK, MN
SITE EJF - PRODUCTION ORDER #13674768

SAMPLE NAME	c12DCE, ug/m^3	Combined PAHs, ug/m^3	NAPH&2-MN, ug/m^3	NAPH, ug/m^3	2MeNAPH, ug/m^3	MTBE, ug/m^3	11DCE, ug/m^3	11DCA, ug/m^3
MDL=	0.59			0.79	0.35	0.40	2.14	1.47
569700	nd	nd	nd	nd	nd	nd	nd	nd
569699	nd	nd	nd	nd	nd	nd	nd	nd
569701	nd	nd	nd	nd	nd	nd	nd	nd
method blank	nd	nd	nd	nd	nd	nd	nd	nd
method blank	nd	nd	nd	nd	nd	nd	nd	nd
Maximum	0.60	6854.69	1804.23	749.64	1054.59	0.20	0.00	0.00
Standard Dev.	0.11	1236.21	346.73	177.38	183.04	0.09	0.00	0.00
Mean	0.03	361.77	100.60	57.15	43.48	0.06	0.00	0.00

No mdl is available for summed combinations of analytes. In summed
columns (eg., BTEX), the reported values should be considered
ESTIMATED if any of the individual compounds were reported as bdl.

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GORE(TM) SURVEYS ANALYTICAL RESULTS
STS CONSULTANTS, MAPLE GROVE, MN
GORE STANDARD VOC/SVOC TARGET COMPOUNDS PLUS ADDITIONAL PAHs (A4)
ESTIMATED CONCENTRATIONS
REILLY TAR - ST. LOUIS PARK, MN
SITE EJF - PRODUCTION ORDER #13674768

SAMPLE NAME	111TCA, ug/m^3	12DCA, ug/m^3	TCE, ug/m^3	OCT, ug/m^3	PCE, ug/m^3	14DCB, ug/m^3	Acenaphthene, ug/m^3	Acenaphthylene, ug/m^3
MDL=	0.66	0.20	0.23	0.46	0.84	0.69	0.50	1.36
569667	nd	nd	nd	nd	nd	nd	1.01	nd
569668	nd	nd	nd	0.47	nd	nd	373.62	7.56
569668	nd	nd	nd	0.47	bdl	nd	762.86	14.44
569669	nd	nd	nd	nd	nd	nd	2.49	nd
569670	nd	nd	nd	nd	nd	nd	151.02	2.78
569671	nd	nd	nd	nd	nd	nd	1.99	bdl
569672	nd	nd	nd	nd	nd	nd	0.50	nd
569673	nd	nd	nd	nd	nd	nd	bdl	nd
569674	nd	nd	nd	nd	nd	nd	0.50	nd
569675	nd	nd	nd	nd	nd	nd	5.55	bdl
569676	nd	nd	nd	nd	0.84	nd	1.00	nd
569677	nd	nd	nd	nd	nd	nd	1.51	bdl
569678	nd	nd	nd	nd	nd	nd	9.08	bdl
569679	nd	nd	nd	nd	nd	nd	14.14	2.07
569680	nd	nd	nd	nd	nd	nd	nd	nd
569681	nd	nd	nd	nd	nd	nd	792.34	1008.18
569682	nd	nd	nd	nd	nd	nd	1.51	1.38
569683	nd	nd	nd	0.94	nd	nd	7.57	bdl
569684	nd	nd	nd	nd	nd	nd	0.50	nd
569685	nd	nd	nd	nd	nd	nd	nd	nd
569686	nd	nd	nd	nd	nd	nd	0.93	nd
569687	nd	nd	nd	nd	nd	nd	2.02	1.38
569688	nd	nd	nd	nd	nd	nd	nd	nd
569689	nd	nd	nd	nd	nd	nd	bdl	nd
569690	nd	nd	nd	nd	nd	nd	7.57	7.58
569691	nd	nd	0.24	nd	0.85	nd	0.50	nd
569691	nd	nd	nd	nd	nd	nd	0.50	nd
569692	nd	nd	nd	nd	bdl	nd	1.00	nd
569693	nd	nd	nd	nd	nd	nd	1.00	nd
569694	nd	nd	nd	nd	nd	nd	47.43	bdl
569695	nd	nd	nd	nd	1.68	nd	6.51	bdl
569696	nd	nd	nd	nd	nd	nd	1.41	nd
569697	nd	nd	nd	nd	nd	nd	nd	nd
569698	nd	nd	nd	nd	nd	nd	335.88	3.44

No mdl is available for summed combinations of analytes. In summed
columns (eg., BTEX), the reported values should be considered
ESTIMATED if any of the individual compounds were reported as bdl.

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GORE(TM) SURVEYS ANALYTICAL RESULTS
STS CONSULTANTS, MAPLE GROVE, MN
GORE STANDARD VOC/SVOC TARGET COMPOUNDS PLUS ADDITIONAL PAHs (A4)
ESTIMATED CONCENTRATIONS
REILLY TAR - ST. LOUIS PARK, MN
SITE EJF - PRODUCTION ORDER #13674768

SAMPLE NAME	111TCA, ug/m^3	12DCA, ug/m^3	TCE, ug/m^3	OCT, ug/m^3	PCE, ug/m^3	14DCB, ug/m^3	Acenaphthene, ug/m^3	Acenaphthylene, ug/m^3
MDL=	0.66	0.20	0.23	0.46	0.84	0.69	0.50	1.36
569700	nd	nd	nd	nd	nd	nd	nd	nd
569699	nd	nd	nd	nd	nd	nd	nd	nd
569701	nd	nd	nd	nd	nd	nd	nd	nd
method blank	nd	nd	nd	nd	nd	nd	nd	nd
method blank	nd	nd	nd	nd	nd	nd	nd	nd
Maximum	0.00	0.00	0.24	0.94	1.68	0.00	792.34	1008.18
Standard Dev.	0.00	0.00	0.04	0.19	0.35	0.00	195.87	170.21
Mean	0.00	0.00	0.01	0.05	0.12	0.00	72.37	30.10

No mdl is available for summed combinations of analytes. In summed columns (eg., BTEX), the reported values should be considered ESTIMATED if any of the individual compounds were reported as bdl.

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GORE(TM) SURVEYS ANALYTICAL RESULTS
STS CONSULTANTS, MAPLE GROVE, MN
GORE STANDARD VOC/SVOC TARGET COMPOUNDS PLUS ADDITIONAL PAHs (A4)
ESTIMATED CONCENTRATIONS
REILLY TAR - ST. LOUIS PARK, MN
SITE EJF - PRODUCTION ORDER #13674768

SAMPLE NAME	Fluorene, ug/m^3	PHEN (TIC), ug/m^3	Anthracene (TIC), ug/m^3	Fluoranthene (TIC), ug/m^3	Pyrene (TIC), ug/m^3	CHCl3, ug/m^3	CCl4, ug/m^3
MDL=	0.77	0.77	0.77	0.77	0.77	1.26	1.30
569667	nd	nd	nd	nd	nd	nd	nd
569668	169.54	262.40	133.93	51.15	28.11	nd	nd
569668	274.77	350.65	156.19	55.84	30.07	nd	nd
569669	bdl	1.16	bdl	bdl	bdl	nd	nd
569670	37.78	42.59	17.74	15.38	8.67	nd	nd
569671	1.93	7.33	2.32	3.86	2.32	nd	nd
569672	bdl	nd	nd	nd	nd	nd	nd
569673	nd	1.55	bdl	1.55	1.16	nd	nd
569674	nd	1.17	nd	0.78	0.78	nd	nd
569675	1.56	7.43	1.96	3.91	3.91	nd	nd
569676	bdl	1.55	nd	1.55	1.16	nd	nd
569677	bdl	3.52	0.78	1.17	1.57	nd	nd
569678	1.95	4.70	1.57	4.31	3.91	nd	nd
569679	8.99	34.45	14.49	32.50	16.44	nd	nd
569680	nd	nd	nd	nd	nd	nd	nd
569681	1116.67	1404.87	369.05	219.80	139.56	nd	nd
569682	2.34	3.52	0.78	0.78	0.78	nd	nd
569683	2.74	9.79	25.06	37.98	20.75	nd	nd
569684	nd	0.78	0.78	0.78	0.78	nd	nd
569685	nd	nd	nd	nd	bdl	nd	nd
569686	bdl	bdl	bdl	1.09	1.09	nd	nd
569687	3.51	12.90	5.47	5.47	3.91	nd	nd
569688	nd	nd	nd	0.78	bdl	nd	nd
569689	nd	nd	nd	nd	nd	nd	nd
569690	21.88	55.59	45.80	5.48	3.52	nd	nd
569691	nd	1.17	nd	bdl	bdl	nd	nd
569691	nd	1.57	0.78	bdl	bdl	nd	nd
569692	0.78	3.11	1.55	1.16	1.16	nd	nd
569693	bdl	1.16	nd	bdl	bdl	nd	nd
569694	14.06	41.08	10.17	13.69	8.22	nd	nd
569695	2.71	11.65	7.77	3.88	2.72	nd	nd
569696	bdl	1.09	1.09	1.46	1.09	nd	nd
569697	nd	0.78	0.78	0.78	0.78	nd	nd
569698	18.35	9.39	19.95	22.29	15.64	nd	nd

No mdl is available for summed combinations of analytes. In summed columns (eg., BTEX), the reported values should be considered ESTIMATED if any of the individual compounds were reported as bdl.

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GORE(TM) SURVEYS ANALYTICAL RESULTS
STS CONSULTANTS, MAPLE GROVE, MN
GORE STANDARD VOC/SVOC TARGET COMPOUNDS PLUS ADDITIONAL PAHs (A4)
ESTIMATED CONCENTRATIONS
REILLY TAR - ST. LOUIS PARK, MN
SITE EJF - PRODUCTION ORDER #13674768

SAMPLE NAME	Fluorene, ug/m^3	PHEN (TIC), ug/m^3	Anthracene (TIC), ug/m^3	Fluoranthene (TIC), ug/m^3	Pyrene (TIC), ug/m^3	CHCl3, ug/m^3	CCl4, ug/m^3
MDL=	0.77	0.77	0.77	0.77	0.77	1.26	1.30
569700	nd	nd	nd	nd	nd	nd	nd
569699	nd	nd	nd	nd	nd	nd	nd
569701	nd	nd	nd	nd	nd	nd	nd
method blank	nd	nd	nd	nd	nd	nd	nd
method blank	nd	nd	nd	nd	nd	nd	nd
Maximum	1116.67	1404.87	369.05	219.80	139.56	0.00	0.00
Standard Dev.	193.49	244.09	69.28	38.64	24.11	0.00	0.00
Mean	48.07	65.08	23.43	13.98	8.58	0.00	0.00

No mdl is available for summed combinations of analytes. In summed
columns (eg., BTEX), the reported values should be considered
ESTIMATED if any of the individual compounds were reported as bdl.

EJFcust_Conc.xls

GORE(TM) SURVEYS ANALYTICAL RESULTS
STS CONSULTANTS, MAPLE GROVE, MN
GORE STANDARD VOC/SVOC TARGET COMPOUNDS PLUS ADDITIONAL PAHs (A4)
ESTIMATED CONCENTRATIONS
REILLY TAR - ST. LOUIS PARK, MN
SITE EJF - PRODUCTION ORDER #13674768

SAMPLE NAME	112TCA, ug/m^3	CIBENZ, ug/m^3	1112TetCA, ug/m^3	1122TetCA, ug/m^3	13DCB, ug/m^3	12DCB, ug/m^3
MDL=	2.55	0.82	0.36	1.03	0.62	3.77
569667	nd	nd	nd	nd	nd	nd
569668	nd	nd	nd	nd	nd	nd
569668	nd	nd	nd	nd	nd	nd
569669	nd	nd	nd	nd	nd	nd
569670	nd	nd	nd	nd	nd	nd
569671	nd	nd	nd	nd	nd	nd
569672	nd	nd	nd	nd	nd	nd
569673	nd	nd	nd	nd	nd	nd
569674	nd	nd	nd	nd	nd	nd
569675	nd	nd	nd	nd	nd	nd
569676	nd	nd	nd	nd	nd	nd
569677	nd	nd	nd	nd	nd	nd
569678	nd	nd	nd	nd	nd	nd
569679	nd	nd	nd	nd	nd	nd
569680	nd	nd	nd	nd	nd	nd
569681	nd	nd	nd	nd	nd	nd
569682	nd	nd	nd	nd	nd	nd
569683	nd	nd	nd	nd	nd	nd
569684	nd	nd	nd	nd	nd	nd
569685	nd	nd	nd	nd	nd	nd
569686	nd	nd	nd	nd	nd	nd
569687	nd	nd	nd	nd	nd	nd
569688	nd	nd	nd	nd	nd	nd
569689	nd	nd	nd	nd	nd	nd
569690	nd	nd	nd	nd	nd	nd
569691	nd	nd	nd	nd	nd	nd
569691	nd	nd	nd	nd	nd	nd
569692	nd	nd	nd	nd	nd	nd
569693	nd	nd	nd	nd	nd	nd
569694	nd	nd	nd	nd	nd	nd
569695	nd	nd	nd	nd	nd	nd
569696	nd	nd	nd	nd	nd	nd
569697	nd	nd	nd	nd	nd	nd
569698	nd	nd	nd	nd	nd	nd

No mdl is available for summed combinations of analytes. In summed
columns (eg., BTEX), the reported values should be considered
ESTIMATED if any of the individual compounds were reported as bdl.

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STS CONSULTANTS, MAPLE GROVE, MN
GORE STANDARD VOC/SVOC TARGET COMPOUNDS PLUS ADDITIONAL PAHs (A4)
ESTIMATED CONCENTRATIONS
REILLY TAR - ST. LOUIS PARK, MN
SITE EJF - PRODUCTION ORDER #13674768

SAMPLE NAME	112TCA, ug/m^3	CIBENZ, ug/m^3	1112TetCA, ug/m^3	1122TetCA, ug/m^3	13DCB, ug/m^3	12DCB, ug/m^3
MDL=	2.55	0.82	0.36	1.03	0.62	3.77
569700	nd	nd	nd	nd	nd	nd
569699	nd	nd	nd	nd	nd	nd
569701	nd	nd	nd	nd	nd	nd
method blank	nd	nd	nd	nd	nd	nd
method blank	nd	nd	nd	nd	nd	nd
Maximum	0.00	0.00	0.00	0.00	0.00	0.00
Standard Dev.	0.00	0.00	0.00	0.00	0.00	0.00
Mean	0.00	0.00	0.00	0.00	0.00	0.00

No mdl is available for summed combinations of analytes. In summed columns (eg., BTEX), the reported values should be considered ESTIMATED if any of the individual compounds were reported as bdl.

EJFcust_Conc.xls

TIC - SITE EJF - PRODUCTION ORDER# 13674768
In Numerical Order

TIC - SITE EJF - PRODUCTION ORDER# 13674768
In Numerical Order

TIC - SITE EJF - PRODUCTION ORDER# 13674768
In Numerical Order

TIC - SITE EJF - PRODUCTION ORDER# 13674768
In Numerical Order

TIC: 569686S.D

TIC: 569687S.D

TIC: 569688S.D

TIC: 569689S.D

TIC: 569690S.D

TIC - SITE EJF - PRODUCTION ORDER# 13674768
In Numerical Order

TIC - SITE EJF - PRODUCTION ORDER# 13674768
In Numerical Order

TIC - SITE EJF - PRODUCTION ORDER# 13674768
In Numerical Order

Appendix C

W.L. Gore and Associates QA/QC Deliverable Package
(Electronic copy on disk)

W.L. Gore and Associates
QA/ QC Deliverable Package
STS Consultants, Maple Grove, MN
Reilly Tar, St. Louis Park, MN
Site EJF - Production Order #13674768

GORE MODULE ANALYZED	FIELD SAMPLE OR TRIP BLANK	METHOD DEVIATIONS	COMMENTS
569667S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569668D.D	Field Sample - Duplicate	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569668S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569669S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569670S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569671S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569672S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569673S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569674S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569675S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569676S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569677S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569678S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569679S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569680S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569681S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569682S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569683S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569684S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569685S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569686S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569687S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569688S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569689S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569690S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569691D.D	Field Sample - Duplicate	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569691S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569692S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569693S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569694S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569695S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569696S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569697S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569698S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569700S.D	Field Sample	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569699F.D	Field Blank	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None
569701T.D	Trip Blank	High level calibration response for Acenaphthylene was not used due to a non-linear curve	None

Additional Analysis Notes: (1) Response factor for Fluorene was used to quantify the following TICs: Phenanthrene, Anthracene, Fluoranthene, and Pyrene.
(2) The initial BFB tune passed all mass critieria. The second BFB tune passed all mass critieria with the exception of mass 75 relative to mass 95.

BFB Tune Reports
Production Order #13674768

Spectrum Information: Scan 925

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.5	26784	PASS
75	95	30	66	65.9	86104	PASS
95	95	100	100	100.0	130656	PASS
96	95	5	9	6.3	8202	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	108.7	142080	PASS
175	174	4	9	6.8	9604	PASS
176	174	93	101	96.3	136832	PASS
177	176	5	9	6.9	9424	PASS

BFB1.D   A4-8.M   Tue Jul 01 15:52:35 2008   RPT1

Spectrum Information: Scan 925

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.6	18664	PASS
75	95	30	66	77.8	59112	FAIL*
95	95	100	100	100.0	76024	PASS
96	95	5	9	6.7	5128	PASS
173	174	0.00	2	1.0	790	PASS
174	95	50	120	105.0	79840	PASS
175	174	4	9	8.2	6536	PASS
176	174	93	101	95.9	76544	PASS
177	176	5	9	7.1	5420	PASS

BFB2.D A4-8.M   Wed Jul 02 06:53:05 2008   RPT1

Initial Calibration
Production Order #13674768

```
                     Compound List Report   Instrumen

Method        : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title         : Gore Expanded Target VOCs/SVOCs
Last Update   : Mon Jun 30 14:43:38 2008
Response via  : Initial Calibration
Total Cpnds   : 38

PK#     Compound Name                QIon  Exp_RT  Rel_RT  Cal  #Qual  A/H   ID
------------------------------------------------------------------------------
1       Methyl t-butyl ether          73   2.30   1.000   A     2     A    R
2       1,1-Dichloroethene            61   2.10   1.000   A     2     A    B
3       trans-1,2-Dichloroethene      61   2.30   1.000   A     2     A    R
4       1,1-Dichloroethane            63   2.37   1.000   A     2     A    R
5       cis-1,2-Dichloroethene        61   2.52   1.000   A     2     A    R
6       Chloroform                    83   2.64   1.000   A     2     A    R
7       1,1,1-Trichloroethane         97   2.79   1.000   A     2     A    R
8       1,2-Dichloroethane            62   2.87   1.000   A     2     A    R
9       Benzene                       78   2.92   1.000   A     2     A    R
10      Carbon tetrachloride         117   2.92   1.000   A     2     A    R
11      Trichloroethene               95   3.28   1.000   A     2     A    R
12      1,1,2- Trichloroethane        97   4.13   1.000   A     2     A    B
13      Toluene                       91   3.98   1.000   A     2     A    R
14      Octane                        43   4.29   1.000   A     2     A    R
15      Tetrachloroethene            166   4.40   1.000   A     2     A    R
16      Chlorobenzene                112   4.86   1.000   A     2     A    R
17      1,1,1,2- Tetrachloroethane   131   4.93   1.000   A     2     A    R
18      Ethylbenzene                  91   4.99   1.000   A     2     A    R
19      m,p-Xylene                    91   5.08   1.000   A     2     A    R
20      o-Xylene                      91   5.32   1.000   A     2     A    R
21      1,1,2,2-Tetrachloroethane     83   5.60   1.000   A     2     A    B
22      1,3,5-Trimethylbenzene       105   6.03   1.000   A     2     A    R
23      1,2,4-Trimethylbenzene       105   6.26   1.000   A     2     A    R
24      1,3-Dichlorobenzene          146   6.39   1.000   A     2     A    R
25      1,4-Dichlorobenzene          146   6.47   1.000   A     2     A    R
26      1,2-Dichlorobenzene          146   6.63   1.000   A     2     A    R
27      Undecane                      57   7.03   1.000   A     2     A    R
28      Naphthalene                  128   7.84   1.000   A     2     A    R
29      Tridecane                     57   8.42   1.000   A     2     A    R
30      2-Methyl naphthalene         142   8.60   1.000   A     2     A    R
31      Acenaphthylene               152   9.60   1.000   A     2     A    B
32      Pentadecane                   57   9.62   1.000   A     2     A    R
33      Acenaphthene                 153   9.79   1.000   A     2     A    B
34      Fluorene                     166  10.36   1.000   A     2     A    B
35      Phenanthrene                 178  11.44   1.000   A     2     A    B
36      Anthracene                   178  11.50   1.000   A     2     A    B
37      Fluoranthene                 202  12.76   1.000   A     2     A    B
38      Pyrene                       202  13.02   1.000   A     2     A    B


Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
  A/H = Area or Height
ID  R = R.T.   B = R.T. & Q  Q = Qvalue L = Largest  A = All
------------------------------------------------------------------------------
       A4-8.M      Wed Jul 02 10:06:32 2008        RPT1
```

Methyl t-butyl ether

Response

8.00e+006

6.00e+006

4.00e+006

2.00e+006

0

0   5   10   15   20   25   30   35   40   45   50
Amount

Response = 2.10e+005 * Amt
RF Rel Std Dev = 19.8%   Curve Fit: Avg RF

1,1-Dichloroethene

Response
4.00e+006

3.00e+006

2.00e+006

1.00e+006

0

0   5   10   15   20   25   30   35   40   45   50
Amount

Response = 7.89e+004 * Amt
RF Rel Std Dev = 8.8%   Curve Fit: Avg RF

trans-1,2-Dichloroethene

Response = 8.79e+004 * Amt
RF Rel Std Dev = 11.8%   Curve Fit: Avg RF

1,1-Dichloroethane

Response = 1.09e+005 * Amt
RF Rel Std Dev = 6.4%   Curve Fit: Avg RF

cis-1,2-Dichloroethene

Response = 9.29e+004 * Amt
RF Rel Std Dev = 17.1%   Curve Fit: Avg RF

Chloroform

Response = 1.06e+005 * Amt
RF Rel Std Dev = 6.6%   Curve Fit: Avg RF

1,1,1-Trichloroethane

Response = 9.93e+004 * Amt
RF Rel Std Dev = 2.8%   Curve Fit: Avg RF

1,2-Dichloroethane

Response = 8.84e+004 * Amt
RF Rel Std Dev = 5.9%   Curve Fit: Avg RF

Benzene

Response = 2.57e+005 * Amt
RF Rel Std Dev = 15.1%   Curve Fit: Avg RF

Carbon tetrachloride

Response = 8.88e+004 * Amt
RF Rel Std Dev = 2.0%   Curve Fit: Avg RF

Trichloroethene

Response

3.00e+006

2.00e+006

1.00e+006

0

0   5   10   15   20   25   30   35   40   45   50

Amount

Response = 6.83e+004 * Amt
RF Rel Std Dev = 5.9%   Curve Fit: Avg RF

1,1,2- Trichloroethane

Response

3.00e+006

2.00e+006

1.00e+006

0

0   5   10   15   20   25   30   35   40   45   50

Amount

Response = 6.51e+004 * Amt
RF Rel Std Dev = 5.2%   Curve Fit: Avg RF

Toluene

Response = 2.83e+005 * Amt
RF Rel Std Dev = 18.5%   Curve Fit: Avg RF

Octane

Response = 1.58e+005 * Amt
RF Rel Std Dev = 11.5%   Curve Fit: Avg RF

Tetrachloroethene

Response = 8.07e+004 * Amt
RF Rel Std Dev = 7.1%   Curve Fit: Avg RF

Chlorobenzene

Response = 1.92e+005 * Amt
RF Rel Std Dev = 13.3%   Curve Fit: Avg RF

1,1,1,2- Tetrachloroethane

Response

3.00e+006

2.00e+006

1.00e+006

0

0   5   10   15   20   25   30   35   40   45   50

Amount

Response = 6.95e+004 * Amt
RF Rel Std Dev = 2.5%   Curve Fit: Avg RF

Ethylbenzene

Response

1.00e+007

5.00e+006

0

0   5   10   15   20   25   30   35   40   45   50

Amount

Response = 3.18e+005 * Amt
RF Rel Std Dev = 22.9%   Curve Fit: Avg RF

m,p-Xylene

Response = 2.64e+005 * Amt
RF Rel Std Dev = 20.4%   Curve Fit: Avg RF

o-Xylene

Response = 2.74e+005 * Amt
RF Rel Std Dev = 19.9%   Curve Fit: Avg RF

1,1,2,2-Tetrachloroethane

Response

Response = 1.17e+005 * Amt
RF Rel Std Dev = 6.0%   Curve Fit: Avg RF

1,3,5-Trimethylbenzene

Response

Response = 2.94e+005 * Amt
RF Rel Std Dev = 20.2%   Curve Fit: Avg RF

1,2,4-Trimethylbenzene

Response

1.00e+007

5.00e+006

0

0   5   10   15   20   25   30   35   40   45   50

Amount

Response = 3.04e+005 * Amt
RF Rel Std Dev = 20.1%   Curve Fit: Avg RF

1,3-Dichlorobenzene

Response

6.00e+006

4.00e+006

2.00e+006

0

0   5   10   15   20   25   30   35   40   45   50

Amount

Response = 1.71e+005 * Amt
RF Rel Std Dev = 9.9%   Curve Fit: Avg RF

1,4-Dichlorobenzene

Response = 1.77e+005 * Amt
RF Rel Std Dev = 11.0%   Curve Fit: Avg RF

1,2-Dichlorobenzene

Response = 1.75e+005 * Amt
RF Rel Std Dev = 12.7%   Curve Fit: Avg RF

Undecane

Response = 1.87e+005 * Amt
RF Rel Std Dev = 14.4%   Curve Fit: Avg RF

Naphthalene

Response = 4.61e+005 * Amt
RF Rel Std Dev = 24.1%   Curve Fit: Avg RF

Tridecane

Response

8.00e+006

6.00e+006

4.00e+006

2.00e+006

0

0   5   10   15   20   25   30   35   40   45   50

Amount

Response = 2.01e+005 * Amt
RF Rel Std Dev = 15.4%   Curve Fit: Avg RF

2-Methyl naphthalene

Response

1.00e+007

5.00e+006

0

0   5   10   15   20   25   30   35   40   45   50

Amount

Response = 3.47e+005 * Amt
RF Rel Std Dev = 18.1%   Curve Fit: Avg RF

Acenaphthylene

Response

1.00e+007

5.00e+006

0

0   2   4   6   8   10   12   14   16   18   20
Amount

Response = 5.90e+005 * Amt
RF Rel Std Dev = 15.9%   Curve Fit: Avg RF

Pentadecane

Response

6.00e+006

4.00e+006

2.00e+006

0

0   5   10   15   20   25   30   35   40   45   50
Amount

Response = 2.14e+005 * Amt
RF Rel Std Dev = 19.5%   Curve Fit: Avg RF

Acenaphthene

Response = 3.52e+005 * Amt
RF Rel Std Dev = 18.4%   Curve Fit: Avg RF

Fluorene

Response = 4.27e+005 * Amt
RF Rel Std Dev = 22.1%   Curve Fit: Avg RF

Phenanthrene

Response = 4.27e+005 * Amt
RF Rel Std Dev = 22.1%   Curve Fit: Avg RF

Anthracene

Response = 4.27e+005 * Amt
RF Rel Std Dev = 22.1%   Curve Fit: Avg RF

Fluoranthene

Response = 4.27e+005 * Amt
RF Rel Std Dev = 22.1%   Curve Fit: Avg RF

Pyrene

Response = 4.27e+005 * Amt
RF Rel Std Dev = 22.1%   Curve Fit: Avg RF

Calibration Standards
Quantification Reports
Production Order #13674768

```
Data File : C:\MSDCHEM\#8\74768EJF\SVOC2.D          Vial: 10
Acq On    : 27 Jun 2008   2:18 pm               Operator: DC/DD
Sample    :                                     Inst    : Instrumen
Misc      :                                     Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:54:05 2008        Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8
```
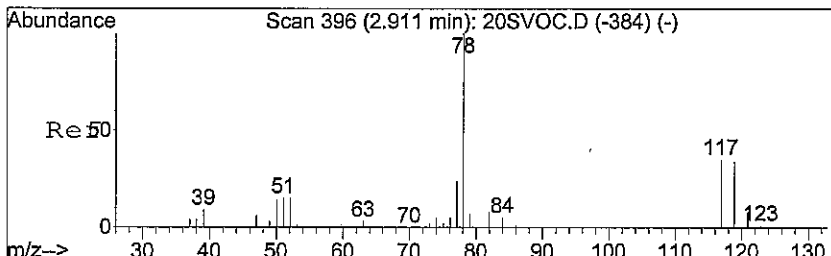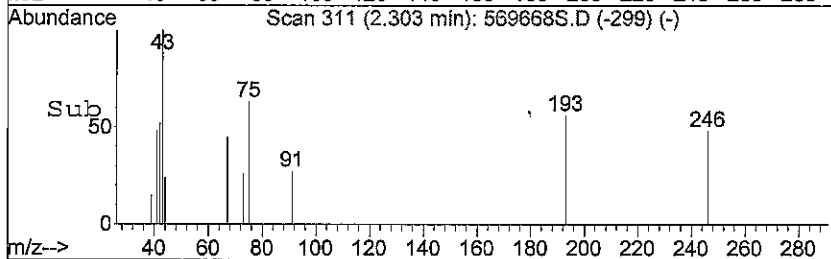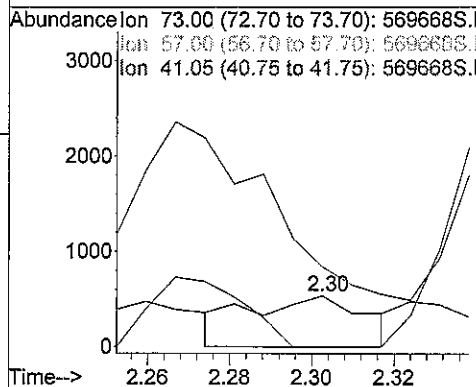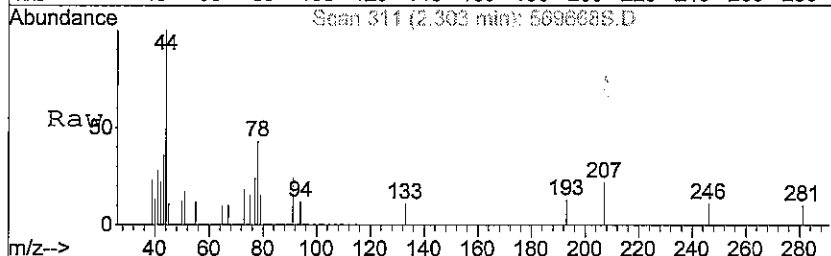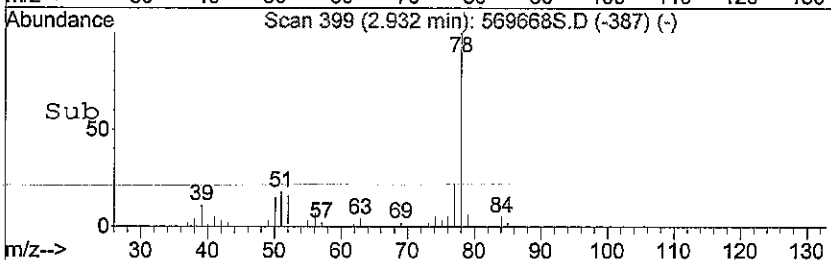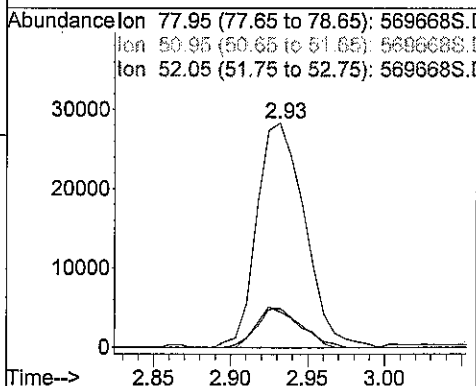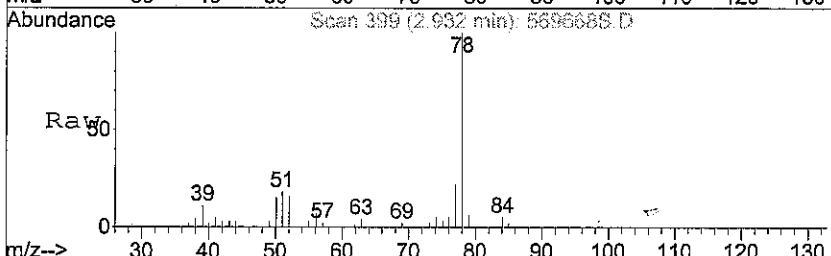
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds | | | | | | Qvalue

		R.T.	QIon	Response	Conc	Units	Qvalue
1)	Methyl t-butyl ether	2.33	73	55318m	0.26	ug	#
2)	1,1-Dichloroethene	2.10	61	18103m	0.23	ug	#
3)	trans-1,2-Dichloroethene	2.30	61	20512m	0.23	ug	#
4)	1,1-Dichloroethane	2.37	63	24101m	0.22	ug	#
5)	cis-1,2-Dichloroethene	2.52	61	23960m	0.26	ug	#
6)	Chloroform	2.65	83	23413m	0.22	ug	#
7)	1,1,1-Trichloroethane	2.79	97	20397m	0.21	ug	#
8)	1,2-Dichloroethane	2.87	62	19150m	0.22	ug	#
9)	Benzene	2.92	78	61023m	0.24	ug	#
10)	Carbon tetrachloride	2.92	117	17471m	0.20	ug	#
11)	Trichloroethene	3.28	95	14832m	0.22	ug	#
12)	1,1,2- Trichloroethane	4.13	97	14054m	0.22	ug	#
13)	Toluene	3.99	91	68997m	0.24	ug	#
14)	Octane	4.29	43	34504m	0.22	ug	#
15)	Tetrachloroethene	4.40	166	17798m	0.22	ug	#
16)	Chlorobenzene	4.86	112	44505m	0.23	ug	#
17)	1,1,1,2- Tetrachloroethane	4.93	131	13971m	0.20	ug	#
18)	Ethylbenzene	4.99	91	77235m	0.24	ug	#
19)	m,p-Xylene	5.08	91	64863m	0.25	ug	#
20)	o-Xylene	5.32	91	66951m	0.24	ug	#
21)	1,1,2,2-Tetrachloroethane	5.62	83	24152m	0.21	ug	#
22)	1,3,5-Trimethylbenzene	6.03	105	69428m	0.24	ug	#
23)	1,2,4-Trimethylbenzene	6.26	105	72625m	0.24	ug	#
24)	1,3-Dichlorobenzene	6.41	146	34172m	0.20	ug	#
25)	1,4-Dichlorobenzene	6.49	146	38767m	0.22	ug	#
26)	1,2-Dichlorobenzene	6.65	146	40257m	0.23	ug	#
27)	Undecane	7.03	57	38814m	0.21	ug	
28)	Naphthalene	7.88	128	100747m	0.22	ug	#
29)	Tridecane	8.45	57	37603m	0.19	ug	#
30)	2-Methyl naphthalene	8.63	142	69719m	0.20	ug	#
31)	Acenaphthylene	9.62	152	109559m	0.19	ug	#
32)	Pentadecane	9.65	57	42952m	0.20	ug	#
33)	Acenaphthene	9.80	153	73502m	0.21	ug	#
34)	Fluorene	10.38	166	93453m	0.22	ug	#

Data File : C:\MSDCHEM\#8\74768EJF\SVOC2.D   Vial: 10
Acq On   : 27 Jun 2008   2:18 pm   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:54 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

```
Data File : C:\MSDCHEM\#8\74768EJF\1SVOC.D          Vial: 9
Acq On    : 27 Jun 2008   1:50 pm                   Operator: DC/DD
Sample    :                                         Inst    : Instrumen
Misc      :                                         Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:44 2008          Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8
```

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)

Target Compounds					Qvalue
1) Methyl t-butyl ether	2.31	73	220684m	1.05 ug	#
2) 1,1-Dichloroethene	2.10	61	79435m	1.01 ug	#
3) trans-1,2-Dichloroethene	2.30	61	94301m	1.07 ug	#
4) 1,1-Dichloroethane	2.37	63	111626m	1.02 ug	#
5) cis-1,2-Dichloroethene	2.53	61	94668m	1.02 ug	#
6) Chloroform	2.65	83	107778m	1.02 ug	#
7) 1,1,1-Trichloroethane	2.80	97	101415m	1.02 ug	#
8) 1,2-Dichloroethane	2.87	62	92105m	1.04 ug	#
9) Benzene	2.92	78	281943m	1.10 ug	#
10) Carbon tetrachloride	2.92	117	90386m	1.02 ug	#
11) Trichloroethene	3.28	95	71047m	1.04 ug	#
12) 1,1,2- Trichloroethane	4.13	97	66736m	1.03 ug	#
13) Toluene	3.99	91	315046m	1.11 ug	#
14) Octane	4.29	43	174183m	1.10 ug	#
15) Tetrachloroethene	4.40	166	84112m	1.04 ug	#
16) Chlorobenzene	4.86	112	208503m	1.09 ug	#
17) 1,1,1,2- Tetrachloroethane	4.93	131	72323m	1.04 ug	#
18) Ethylbenzene	4.99	91	370656m	1.17 ug	#
19) m,p-Xylene	5.08	91	297853m	1.13 ug	#
20) o-Xylene	5.32	91	307850m	1.12 ug	#
21) 1,1,2,2-Tetrachloroethane	5.61	83	122762m	1.05 ug	#
22) 1,3,5-Trimethylbenzene	6.03	105	339805m	1.16 ug	#
23) 1,2,4-Trimethylbenzene	6.26	105	349764m	1.15 ug	#
24) 1,3-Dichlorobenzene	6.39	146	190514m	1.12 ug	#
25) 1,4-Dichlorobenzene	6.47	146	194821m	1.10 ug	#
26) 1,2-Dichlorobenzene	6.64	146	190585m	1.09 ug	#
27) Undecane	7.03	57	214903m	1.15 ug	#
28) Naphthalene	7.84	128	568958m	1.24 ug	#
29) Tridecane	8.42	57	233635m	1.16 ug	#
30) 2-Methyl naphthalene	8.60	142	415323m	1.20 ug	#
31) Acenaphthylene	9.60	152	689169m	1.17 ug	#
32) Pentadecane	9.62	57	259926m	1.21 ug	#
33) Acenaphthene	9.79	153	418744m	1.19 ug	#
34) Fluorene	10.36	166	519762m	1.22 ug	#

TIC: 1SVOC.D

```
                    Quantitation Report        (QT Reviewed)

Data File : C:\MSDCHEM\#8\74768EJF\5SVOC.D              Vial: 8
Acq On    : 27 Jun 2008   1:22 pm              Operator: DC/DD
Sample    :                                    Inst    : Instrumen
Misc      :                                    Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:54:00 2008          Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8
```

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds						Qvalue
1) Methyl t-butyl ether	2.30	73	966539m	4.61	ug	#
2) 1,1-Dichloroethene	2.10	61	362981m	4.60	ug	#
3) trans-1,2-Dichloroethene	2.30	61	421432m	4.80	ug	#
4) 1,1-Dichloroethane	2.37	63	523795m	4.80	ug	#
5) cis-1,2-Dichloroethene	2.52	61	419035m	4.51	ug	#
6) Chloroform	2.64	83	506594m	4.79	ug	#
7) 1,1,1-Trichloroethane	2.79	97	478057m	4.82	ug	#
8) 1,2-Dichloroethane	2.87	62	421825m	4.77	ug	#
9) Benzene	2.92	78	1266691m	4.94	ug	#
10) Carbon tetrachloride	2.92	117	433613m	4.88	ug	#
11) Trichloroethene	3.28	95	327304m	4.79	ug	#
12) 1,1,2- Trichloroethane	4.13	97	315560m	4.85	ug	#
13) Toluene	3.99	91	1421628m	5.03	ug	#
14) Octane	4.29	43	799802m	5.07	ug	#
15) Tetrachloroethene	4.40	166	389642m	4.83	ug	#
16) Chlorobenzene	4.86	112	957601m	4.99	ug	#
17) 1,1,1,2- Tetrachloroethane	4.93	131	341204m	4.91	ug	#
18) Ethylbenzene	4.99	91	1680136m	5.29	ug	#
19) m,p-Xylene	5.08	91	1347050m	5.11	ug	#
20) o-Xylene	5.32	91	1400137m	5.11	ug	#
21) 1,1,2,2-Tetrachloroethane	5.60	83	596772m	5.11	ug	#
22) 1,3,5-Trimethylbenzene	6.03	105	1541854m	5.25	ug	#
23) 1,2,4-Trimethylbenzene	6.26	105	1594256m	5.24	ug	#
24) 1,3-Dichlorobenzene	6.39	146	889594m	5.21	ug	#
25) 1,4-Dichlorobenzene	6.47	146	897807m	5.06	ug	#
26) 1,2-Dichlorobenzene	6.63	146	875736m	5.00	ug	#
27) Undecane	7.03	57	1004526m	5.37	ug	#
28) Naphthalene	7.84	128	2605093m	5.66	ug	#
29) Tridecane	8.41	57	1118898m	5.58	ug	#
30) 2-Methyl naphthalene	8.59	142	1928281m	5.55	ug	#
31) Acenaphthylene	9.60	152	3209315m	5.44	ug	#
32) Pentadecane	9.61	57	1198541m	5.59	ug	#
33) Acenaphthene	9.79	153	1939400m	5.51	ug	#
34) Fluorene	10.35	166	2382945m	5.58	ug	#

```
(#) = qualifier out of range (m) = manual integration (+) = signals summed
5SVOC.D  A4-8.M       Wed Jul 02 10:15:54 2008       RPT1          Page 1
```

Data File : C:\MSDCHEM\#8\74768EJF\5SVOC.D   Vial: 8
Acq On   : 27 Jun 2008   1:22 pm   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:54 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

5SVOC.D   A4-8.M   Wed Jul 02 10:15:54 2008   RPT1   Page 2

```
Data File : C:\MSDCHEM\#8\74768EJF\20SVOC.D            Vial: 7
Acq On    : 27 Jun 2008  12:54 pm              Operator: DC/DD
Sample    :                                    Inst    : Instrumen
Misc      :                                    Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:45 2008          Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8
```

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
1) Methyl t-butyl ether	2.30	73	3710485m	17.70	ug	#
2) 1,1-Dichloroethene	2.10	61	1508935m	19.13	ug	#
3) trans-1,2-Dichloroethene	2.30	61	1613400m	18.36	ug	#
4) 1,1-Dichloroethane	2.37	63	2091339m	19.15	ug	#
5) cis-1,2-Dichloroethene	2.52	61	1662003m	17.90	ug	#
6) Chloroform	2.64	83	2022732m	19.13	ug	#
7) 1,1,1-Trichloroethane	2.79	97	1945159m	19.59	ug	#
8) 1,2-Dichloroethane	2.87	62	1686509m	19.07	ug	#
9) Benzene	2.92	78	4739260m	18.48	ug	#
10) Carbon tetrachloride	2.92	117	1771867m	19.96	ug	#
11) Trichloroethene	3.28	95	1303452m	19.07	ug	#
12) 1,1,2- Trichloroethane	4.13	97	1250838m	19.23	ug	#
13) Toluene	3.98	91	5212801m	18.44	ug	#
14) Octane	4.29	43	3035076m	19.25	ug	#
15) Tetrachloroethene	4.40	166	1553680m	19.25	ug	#
16) Chlorobenzene	4.86	112	3634413m	18.92	ug	#
17) 1,1,1,2- Tetrachloroethane	4.93	131	1368987m	19.71	ug	#
18) Ethylbenzene	4.99	91	5797545m	18.25	ug	#
19) m,p-Xylene	5.08	91	4848003m	18.39	ug	#
20) o-Xylene	5.32	91	5067337m	18.51	ug	#
21) 1,1,2,2-Tetrachloroethane	5.60	83	2326277m	19.91	ug	#
22) 1,3,5-Trimethylbenzene	6.03	105	5444621m	18.53	ug	#
23) 1,2,4-Trimethylbenzene	6.26	105	5585112m	18.35	ug	#
24) 1,3-Dichlorobenzene	6.39	146	3386180m	19.85	ug	#
25) 1,4-Dichlorobenzene	6.47	146	3444017m	19.41	ug	#
26) 1,2-Dichlorobenzene	6.63	146	3295989m	18.81	ug	#
27) Undecane	7.03	57	3633668m	19.42	ug	#
28) Naphthalene	7.84	128	8462458m	18.38	ug	#
29) Tridecane	8.42	57	4033718m	20.11	ug	#
30) 2-Methyl naphthalene	8.60	142	6742521m	19.42	ug	#
31) Acenaphthylene	9.60	152	9612182m	16.30	ug	#
32) Pentadecane	9.62	57	4169577m	19.44	ug	#
33) Acenaphthene	9.79	153	6749124m	19.17	ug	#
34) Fluorene	10.36	166	7863001m	18.40	ug	#

Data File : C:\MSDCHEM\#8\74768EJF\20SVOC.D   Vial: 7
Acq On   : 27 Jun 2008   12:54 pm   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:57 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update   : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

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              Quantitation Report      (QT Reviewed)

Data File : C:\MSDCHEM\#8\74768EJF\50SVOC.D          Vial: 6
Acq On    : 27 Jun 2008  12:26 pm              Operator: DC/DD
Sample    :                                    Inst    : Instrumen
Misc      :                                    Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:46 2008        Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8


  Internal Standards          R.T. QIon   Response   Conc Units Dev(Min)
  ---------------------------------------------------------------------------


Target Compounds                                                Qvalue
   1) Methyl t-butyl ether      2.30   73  8603435m   41.04 ug     #
   2) 1,1-Dichloroethene        2.10   61  3824188m   48.47 ug     #
   3) trans-1,2-Dichloroethene  2.30   61  3873610m   44.09 ug     #
   4) 1,1-Dichloroethane        2.37   63  5225377m   47.85 ug     #
   5) cis-1,2-Dichloroethene    2.52   61  4149219m   44.68 ug     #
   6) Chloroform                2.64   83  5064822m   47.91 ug     #
   7) 1,1,1-Trichloroethane     2.79   97  5006893m   50.43 ug     #
   8) 1,2-Dichloroethane        2.87   62  4279452m   48.40 ug     #
   9) Benzene                   2.92   78 10258883m   39.99 ug     #
  10) Carbon tetrachloride      2.92  117  4542451m   51.16 ug     #
  11) Trichloroethene           3.28   95  3293805m   48.19 ug     #
  12) 1,1,2- Trichloroethane    4.13   97  3132232m   48.14 ug     #
  13) Toluene                   3.99   91 10413635m   36.84 ug     #
  14) Octane                    4.30   43  6492884m   41.18 ug     #
  15) Tetrachloroethene         4.40  166  3746597m   46.41 ug     #
  16) Chlorobenzene             4.86  112  7807269m   40.65 ug     #
  17) 1,1,1,2- Tetrachloroethane 4.93 131  3422407m   49.27 ug     #
  18) Ethylbenzene              5.00   91 10286848m   32.38 ug     #
  19) m,p-Xylene                5.09   91  9223276m   34.98 ug     #
  20) o-Xylene                  5.33   91  9634238m   35.20 ug     #
  21) 1,1,2,2-Tetrachloroethane 5.60   83  5246830m   44.91 ug     #
  22) 1,3,5-Trimethylbenzene    6.04  105 10083920m   34.32 ug     #
  23) 1,2,4-Trimethylbenzene    6.26  105 10560037m   34.69 ug     #
  24) 1,3-Dichlorobenzene       6.40  146  7227095m   42.36 ug     #
  25) 1,4-Dichlorobenzene       6.48  146  7345236m   41.39 ug     #
  26) 1,2-Dichlorobenzene       6.64  146  7204914m   41.13 ug     #
  27) Undecane                  7.04   57  7200718m   38.48 ug     #
  28) Naphthalene               7.85  128 14284729m   31.02 ug     #
  29) Tridecane                 8.42   57  7781836m   38.80 ug     #
  30) 2-Methyl naphthalene      8.61  142 12448819m   35.86 ug     #
  31) Acenaphthylene            9.61  152 15414773m   26.13 ug     #
  32) Pentadecane               9.62   57  7473586m   34.85 ug     #
  33) Acenaphthene              9.80  153 12450152m   35.36 ug     #
  34) Fluorene                 10.38  166 13973479m   32.71 ug     #


---------------------------------------------------------------------------
(#) = qualifier out of range (m) = manual integration (+) = signals summed
50SVOC.D  A4-8.M      Wed Jul 02 10:15:54 2008     RPT1         Page 1
```

Data File : C:\MSDCHEM\#8\74768EJF\50SVOC.D   Vial: 6
Acq On   : 27 Jun 2008 12:26 pm   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:57 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

Second Source Reference Standard
Quantification Reports
Production Order #13674768

Data File : C:\MSDCHEM\#8\74768EJF\REFSVOC1.D   Vial: 23
Acq On   : 27 Jun 2008   8:21 pm   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:54:02 2008   Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds   Qvalue
1) Methyl t-butyl ether	2.30	73	1898418m	9.06	ug	#
2) 1,1-Dichloroethene	2.10	61	707398m	8.97	ug	#
3) trans-1,2-Dichloroethene	2.30	61	808595m	9.20	ug	#
4) 1,1-Dichloroethane	2.37	63	1041016m	9.53	ug	#
5) cis-1,2-Dichloroethene	2.53	61	824537m	8.88	ug	#
6) Chloroform	2.65	83	1016984m	9.62	ug	#
7) 1,1,1-Trichloroethane	2.80	97	963715m	9.71	ug	#
8) 1,2-Dichloroethane	2.87	62	875638m	9.90	ug	#
9) Benzene	2.92	78	2508068m	9.78	ug	#
10) Carbon tetrachloride	2.92	117	878510m	9.90	ug	#
11) Trichloroethene	3.28	95	660243m	9.66	ug	#
12) 1,1,2- Trichloroethane	4.13	97	644866m	9.91	ug	#
13) Toluene	3.99	91	2831273m	10.02	ug	#
14) Octane	4.29	43	1595805m	10.12	ug	#
15) Tetrachloroethene	4.40	166	794182m	9.84	ug	#
16) Chlorobenzene	4.86	112	1954528m	10.18	ug	#
17) 1,1,1,2- Tetrachloroethane	4.93	131	705914m	10.16	ug	#
18) Ethylbenzene	4.99	91	3336703m	10.50	ug	#
19) m,p-Xylene	5.08	91	2690437m	10.20	ug	#
20) o-Xylene	5.32	91	2792958m	10.20	ug	#
21) 1,1,2,2-Tetrachloroethane	5.60	83	1245060m	10.66	ug	#
22) 1,3,5-Trimethylbenzene	6.03	105	3109716m	10.58	ug	#
23) 1,2,4-Trimethylbenzene	6.26	105	3131918m	10.29	ug	#
24) 1,3-Dichlorobenzene	6.39	146	1776768m	10.41	ug	#
25) 1,4-Dichlorobenzene	6.47	146	1833496m	10.33	ug	#
26) 1,2-Dichlorobenzene	6.63	146	1773221m	10.12	ug	#
27) Undecane	7.03	57	1982715m	10.60	ug	#
28) Naphthalene	7.84	128	5007704m	10.87	ug	#
29) Tridecane	8.42	57	2203852m	10.99	ug	#
30) 2-Methyl naphthalene	8.59	142	3588571m	10.34	ug	#
31) Acenaphthylene	9.60	152	5825093m	9.88	ug	#
32) Pentadecane	9.62	57	2359868m	11.00	ug	#
33) Acenaphthene	9.79	153	3774159m	10.72	ug	#
34) Fluorene	10.36	166	4516155m	10.57	ug	#

Data File : C:\MSDCHEM\#8\74768EJF\REFSVOC1.D   Vial: 23
Acq On   : 27 Jun 2008   8:21 pm   Operator: DC/DD
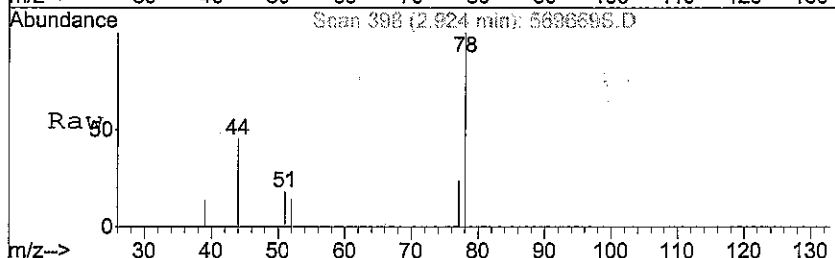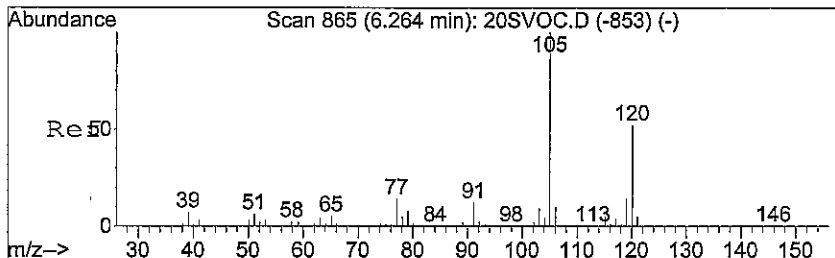Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:54 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
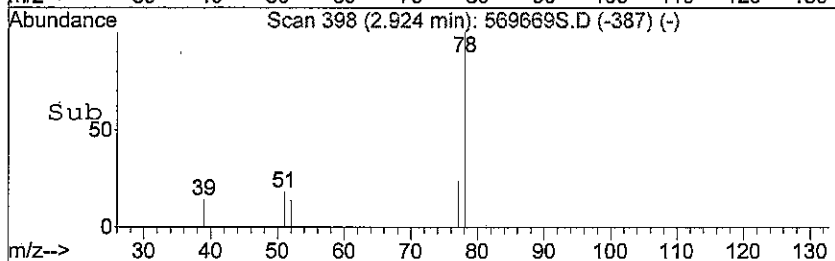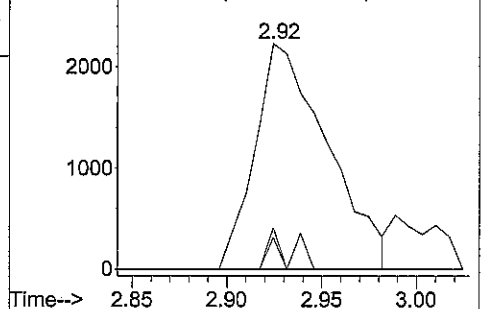Response via : Initial Calibration

```
Data File : C:\MSDCHEM\#8\74768EJF\REFSVOC2.D          Vial: 35
Acq On    : 28 Jun 2008   1:57 am               Operator: DC/DD
Sample    :                                     Inst    : Instrumen
Misc      :                                     Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:54:03 2008        Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8
```

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds						Qvalue
1) Methyl t-butyl ether	2.30	73	1923250m	9.17	ug	#
2) 1,1-Dichloroethene	2.10	61	662004m	8.39	ug	#
3) trans-1,2-Dichloroethene	2.30	61	826891m	9.41	ug	#
4) 1,1-Dichloroethane	2.37	63	1062883m	9.73	ug	#
5) cis-1,2-Dichloroethene	2.53	61	851575m	9.17	ug	#
6) Chloroform	2.65	83	1059403m	10.02	ug	#
7) 1,1,1-Trichloroethane	2.80	97	1004892m	10.12	ug	#
8) 1,2-Dichloroethane	2.87	62	928235m	10.50	ug	#
9) Benzene	2.92	78	2650593m	10.33	ug	#
10) Carbon tetrachloride	2.92	117	921638m	10.38	ug	#
11) Trichloroethene	3.28	95	704887m	10.31	ug	#
12) 1,1,2- Trichloroethane	4.13	97	700602m	10.77	ug	#
13) Toluene	3.99	91	3044905m	10.77	ug	#
14) Octane	4.29	43	1708069m	10.83	ug	#
15) Tetrachloroethene	4.40	166	855837m	10.60	ug	#
16) Chlorobenzene	4.86	112	2121710m	11.05	ug	#
17) 1,1,1,2- Tetrachloroethane	4.93	131	768233m	11.06	ug	#
18) Ethylbenzene	4.99	91	3597740m	11.32	ug	#
19) m,p-Xylene	5.08	91	2933708m	11.13	ug	#
20) o-Xylene	5.32	91	3013904m	11.01	ug	#
21) 1,1,2,2-Tetrachloroethane	5.60	83	1367431m	11.70	ug	#
22) 1,3,5-Trimethylbenzene	6.03	105	3342839m	11.38	ug	#
23) 1,2,4-Trimethylbenzene	6.26	105	3402946m	11.18	ug	#
24) 1,3-Dichlorobenzene	6.39	146	1936569m	11.35	ug	#
25) 1,4-Dichlorobenzene	6.47	146	2010025m	11.33	ug	#
26) 1,2-Dichlorobenzene	6.63	146	1926111m	10.99	ug	#
27) Undecane	7.03	57	2161986m	11.55	ug	#
28) Naphthalene	7.84	128	5355225m	11.63	ug	#
29) Tridecane	8.42	57	2412227m	12.03	ug	#
30) 2-Methyl naphthalene	8.59	142	3851071m	11.09	ug	#
31) Acenaphthylene	9.60	152	6111400m	10.36	ug	#
32) Pentadecane	9.61	57	2555897m	11.92	ug	#
33) Acenaphthene	9.79	153	3990981m	11.33	ug	#
34) Fluorene	10.36	166	4722801m	11.05	ug	#

Data File : C:\MSDCHEM\#8\74768EJF\REFSVOC2.D   Vial: 35
Acq On   : 28 Jun 2008   1:57 am   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:54 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

```
Data File : C:\MSDCHEM\#8\74768EJF\REFSVOC3.D          Vial: 49
Acq On    : 28 Jun 2008   8:29 am                      Operator: DC/DD
Sample    :                                            Inst    : Instrumen
Misc      :                                            Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:54:03 2008          Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8
```

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds						Qvalue
1) Methyl t-butyl ether	2.30	73	1878296m	8.96	ug	#
2) 1,1-Dichloroethene	2.10	61	685074m	8.68	ug	#
3) trans-1,2-Dichloroethene	2.30	61	798975m	9.09	ug	#
4) 1,1-Dichloroethane	2.37	63	1018912m	9.33	ug	#
5) cis-1,2-Dichloroethene	2.53	61	809750m	8.72	ug	#
6) Chloroform	2.65	83	1001666m	9.47	ug	#
7) 1,1,1-Trichloroethane	2.80	97	950596m	9.57	ug	#
8) 1,2-Dichloroethane	2.87	62	867722m	9.81	ug	#
9) Benzene	2.92	78	2468428m	9.62	ug	#
10) Carbon tetrachloride	2.92	117	868834m	9.79	ug	#
11) Trichloroethene	3.28	95	647890m	9.48	ug	#
12) 1,1,2- Trichloroethane	4.13	97	640669m	9.85	ug	#
13) Toluene	3.99	91	2814555m	9.96	ug	#
14) Octane	4.29	43	1583793m	10.05	ug	#
15) Tetrachloroethene	4.40	166	795140m	9.85	ug	#
16) Chlorobenzene	4.86	112	1955888m	10.18	ug	#
17) 1,1,1,2- Tetrachloroethane	4.93	131	712726m	10.26	ug	#
18) Ethylbenzene	4.99	91	3347401m	10.54	ug	#
19) m,p-Xylene	5.08	91	2715171m	10.30	ug	#
20) o-Xylene	5.32	91	2805497m	10.25	ug	#
21) 1,1,2,2-Tetrachloroethane	5.60	83	1253025m	10.73	ug	#
22) 1,3,5-Trimethylbenzene	6.03	105	3138347m	10.68	ug	#
23) 1,2,4-Trimethylbenzene	6.26	105	3159376m	10.38	ug	#
24) 1,3-Dichlorobenzene	6.39	146	1789454m	10.49	ug	#
25) 1,4-Dichlorobenzene	6.47	146	1840527m	10.37	ug	#
26) 1,2-Dichlorobenzene	6.63	146	1791153m	10.22	ug	#
27) Undecane	7.03	57	1992378m	10.65	ug	#
28) Naphthalene	7.84	128	5044793m	10.95	ug	#
29) Tridecane	8.42	57	2226007m	11.10	ug	#
30) 2-Methyl naphthalene	8.59	142	3587996m	10.34	ug	#
31) Acenaphthylene	9.60	152	5775260m	9.79	ug	#
32) Pentadecane	9.61	57	2387557m	11.13	ug	#
33) Acenaphthene	9.79	153	3708262m	10.53	ug	#
34) Fluorene	10.35	166	4424148m	10.36	ug	#

```
(#) = qualifier out of range (m) = manual integration (+) = signals summed
REFSVOC3.D  A4-8.M      Wed Jul 02 10:17:20 2008       RPT1         Page 1
```

Data File : C:\MSDCHEM\#8\74768EJF\REFSVOC3.D   Vial: 49
Acq On   : 28 Jun 2008   8:29 am   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:54 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

```
                     Quantitation Report      (QT Reviewed)

Data File : C:\MSDCHEM\#8\74768EJF\REFSVOC4.D          Vial: 58
Acq On    : 28 Jun 2008  12:46 pm              Operator: DC/DD
Sample    :                                    Inst    : Instrumen
Misc      :                                    Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:54:04 2008        Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8


  Internal Standards              R.T. QIon  Response  Conc Units Dev(Min)
  ---------------------------------------------------------------------------

Target Compounds                                                     Qvalue
    1) Methyl t-butyl ether       2.30   73  1896139m   9.04 ug       #
    2) 1,1-Dichloroethene         2.10   61   711834m   9.02 ug       #
    3) trans-1,2-Dichloroethene   2.30   61   819638m   9.33 ug       #
    4) 1,1-Dichloroethane         2.37   63  1045446m   9.57 ug       #
    5) cis-1,2-Dichloroethene     2.53   61   831203m   8.95 ug       #
    6) Chloroform                 2.65   83  1018487m   9.63 ug       #
    7) 1,1,1-Trichloroethane      2.80   97   965065m   9.72 ug       #
    8) 1,2-Dichloroethane         2.87   62   879891m   9.95 ug       #
    9) Benzene                    2.93   78  2508826m   9.78 ug       #
   10) Carbon tetrachloride       2.93  117   881014m   9.92 ug       #
   11) Trichloroethene            3.28   95   660881m   9.67 ug       #
   12) 1,1,2- Trichloroethane     4.13   97   646337m   9.93 ug       #
   13) Toluene                    3.99   91  2845468m  10.07 ug       #
   14) Octane                     4.30   43  1593100m  10.10 ug       #
   15) Tetrachloroethene          4.40  166   796136m   9.86 ug       #
   16) Chlorobenzene              4.86  112  1954068m  10.17 ug       #
   17) 1,1,1,2- Tetrachloroethane 4.93  131   716525m  10.32 ug       #
   18) Ethylbenzene               4.99   91  3353031m  10.55 ug       #
   19) m,p-Xylene                 5.08   91  2698897m  10.24 ug       #
   20) o-Xylene                   5.32   91  2777344m  10.15 ug       #
   21) 1,1,2,2-Tetrachloroethane  5.60   83  1249228m  10.69 ug       #
   22) 1,3,5-Trimethylbenzene     6.03  105  3131366m  10.66 ug       #
   23) 1,2,4-Trimethylbenzene     6.26  105  3148310m  10.34 ug       #
   24) 1,3-Dichlorobenzene        6.39  146  1775532m  10.41 ug       #
   25) 1,4-Dichlorobenzene        6.47  146  1833762m  10.33 ug       #
   26) 1,2-Dichlorobenzene        6.64  146  1764790m  10.07 ug       #
   27) Undecane                   7.03   57  1985445m  10.61 ug       #
   28) Naphthalene                7.84  128  4979150m  10.81 ug       #
   29) Tridecane                  8.42   57  2221455m  11.08 ug       #
   30) 2-Methyl naphthalene       8.60  142  3589949m  10.34 ug       #
   31) Acenaphthylene             9.60  152  5826768m   9.88 ug       #
   32) Pentadecane                9.62   57  2365180m  11.03 ug       #
   33) Acenaphthene               9.79  153  3772538m  10.71 ug       #
   34) Fluorene                  10.36  166  4443745m  10.40 ug       #




 ---------------------------------------------------------------------------
 (#) = qualifier out of range  (m) = manual integration  (+) = signals summed
 REFSVOC4.D  A4-8.M      Wed Jul 02 10:17:21 2008      RPT1          Page 1
```
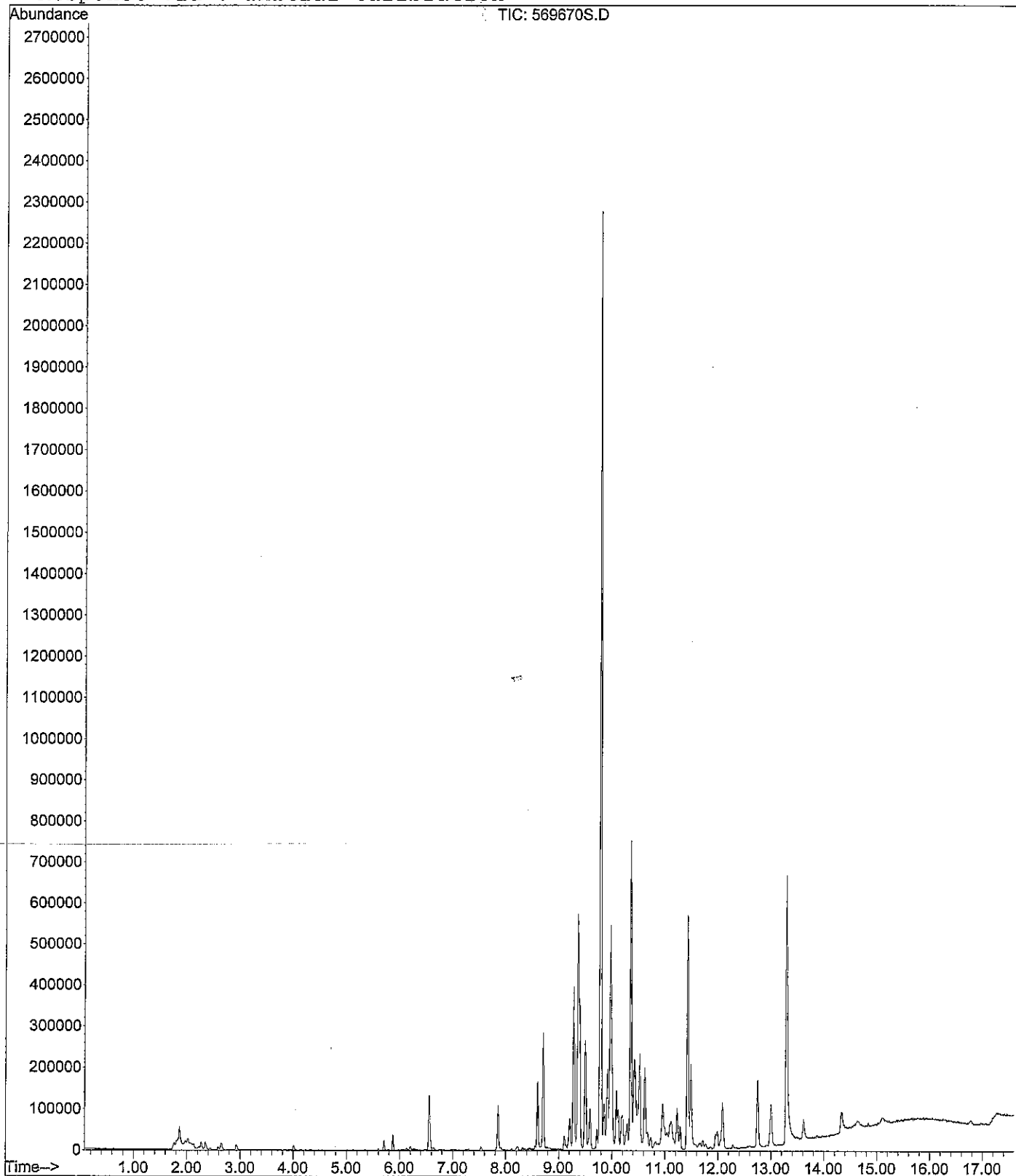
Data File : C:\MSDCHEM\#8\74768EJF\REFSVOC4.D   Vial: 58
Acq On   : 28 Jun 2008   12:46 pm   Operator: DC/DD
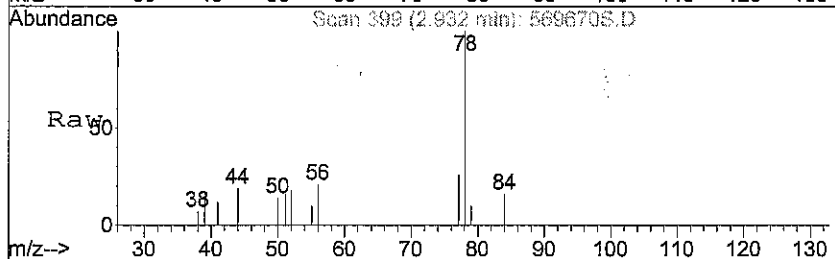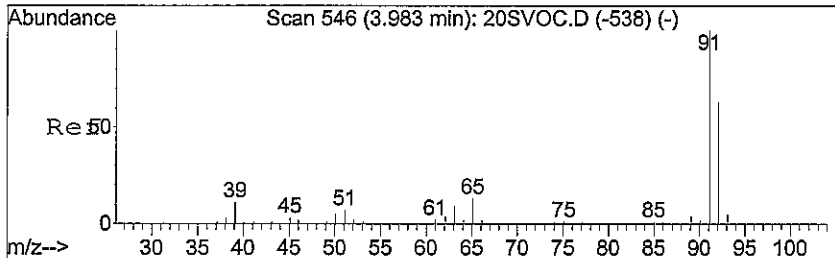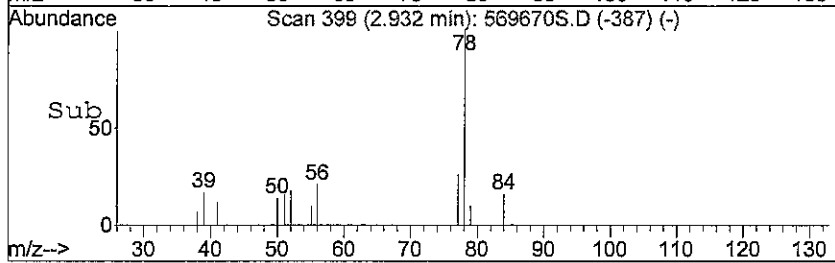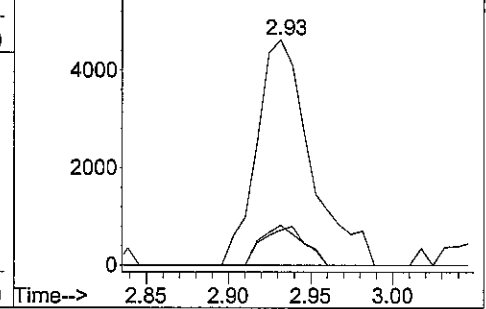Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:55 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

Method Blanks
Quantification Reports and Mass Spectra
Production Order #13674768

Data File : C:\MSDCHEM\#8\74768EJF\BLK1.D   Vial: 12
Acq On   : 27 Jun 2008   3:14 pm   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:54:01 2008   Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds						Qvalue
1) Methyl t-butyl ether	2.30	73	0	N.D.		
2) 1,1-Dichloroethene	2.10	61	0	N.D.		
3) trans-1,2-Dichloroethene	2.30	61	0	N.D.		
4) 1,1-Dichloroethane	2.37	63	0	N.D.		
5) cis-1,2-Dichloroethene	2.52	61	0	N.D.		
6) Chloroform	2.64	83	0	N.D.		
7) 1,1,1-Trichloroethane	2.79	97	0	N.D.		
8) 1,2-Dichloroethane	2.87	62	0	N.D.		
9) Benzene	2.92	78	0	N.D.		
10) Carbon tetrachloride	2.92	117	0	N.D.		
11) Trichloroethene	3.28	95	0	N.D.		
12) 1,1,2- Trichloroethane	4.13	97	0	N.D.		
13) Toluene	3.98	91	0	N.D.		
14) Octane	4.29	43	0	N.D.		
15) Tetrachloroethene	4.40	166	0	N.D.		
16) Chlorobenzene	4.86	112	0	N.D.		
17) 1,1,1,2- Tetrachloroethane	4.93	131	0	N.D.		
18) Ethylbenzene	4.99	91	0	N.D.		
19) m,p-Xylene	5.08	91	0	N.D.		
20) o-Xylene	5.32	91	0	N.D.		
21) 1,1,2,2-Tetrachloroethane	5.60	83	0	N.D.		
22) 1,3,5-Trimethylbenzene	6.03	105	0	N.D.		
23) 1,2,4-Trimethylbenzene	6.26	105	0	N.D.		
24) 1,3-Dichlorobenzene	6.39	146	0	N.D.		
25) 1,4-Dichlorobenzene	6.47	146	0	N.D.		
26) 1,2-Dichlorobenzene	6.63	146	0	N.D.		
27) Undecane	7.03	57	0	N.D.		
28) Naphthalene	7.84	128	0	N.D.		
29) Tridecane	8.42	57	0	N.D.		
30) 2-Methyl naphthalene	8.60	142	0	N.D.		
31) Acenaphthylene	9.60	152	0	N.D.		
32) Pentadecane	9.62	57	0	N.D.		
33) Acenaphthene	9.87	153	481m	0.00	ug	#
34) Fluorene	10.36	166	0	N.D.		
35) Phenanthrene	11.44	178	0	N.D.		
36) Anthracene	11.50	178	0	N.D.		
37) Fluoranthene	12.76	202	0	N.D.		
38) Pyrene	13.02	202	0	N.D.		

Data File : C:\MSDCHEM\#8\74768EJF\BLK1.D   Vial: 12
Acq On   : 27 Jun 2008   3:14 pm   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:54 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

Scan 1358 (9.789 min): 20SVOC.D (-1347) (-)

Scan 1369 (9.867 min): BLK1.D

Scan 1369 (9.867 min): BLK1.D (-1347) (-)

#33
Acenaphthene
Concen: 0.00 ug m
RT: 9.87 min   Scan# 1369
Delta R.T.   0.08 min
Lab File: BLK1.D
Acq: 27 Jun 2008   3:14 pm

Tgt Ion:153	Resp:		481
Ion	Ratio	Lower	Upper
153	100		
154	0.0	78.6	118.0#
152	0.0	42.4	63.6#

Ion 153.00 (152.70 to 153.70): BLK1.D
Ion 153.95 (153.65 to 154.65): BLK1.D
Ion 152.00 (151.70 to 152.70): BLK1.D

Data File : C:\MSDCHEM\#8\74768EJF\BLK2.D   Vial: 48
Acq On   : 28 Jun 2008   8:01 am   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:54:01 2008.   Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)

Target Compounds					Qvalue
1) Methyl t-butyl ether	2.30	73	0	N.D.	
2) 1,1-Dichloroethene	2.10	61	0	N.D.	
3) trans-1,2-Dichloroethene	2.30	61	0	N.D.	
4) 1,1-Dichloroethane	2.37	63	0	N.D.	
5) cis-1,2-Dichloroethene	2.52	61	0	N.D.	
6) Chloroform	2.64	83	0	N.D.	
7) 1,1,1-Trichloroethane	2.79	97	0	N.D.	
8) 1,2-Dichloroethane	2.87	62	0	N.D.	
9) Benzene	2.92	78	0	N.D.	
10) Carbon tetrachloride	2.92	117	0	N.D.	
11) Trichloroethene	3.28	95	0	N.D.	
12) 1,1,2- Trichloroethane	4.13	97	0	N.D.	
13) Toluene	3.98	91	0	N.D.	
14) Octane	4.29	43	0	N.D.	
15) Tetrachloroethene	4.40	166	0	N.D.	
16) Chlorobenzene	4.86	112	0	N.D.	
17) 1,1,1,2- Tetrachloroethane	4.93	131	0	N.D.	
18) Ethylbenzene	4.99	91	0	N.D.	
19) m,p-Xylene	5.08	91	0	N.D.	
20) o-Xylene	5.32	91	0	N.D.	
21) 1,1,2,2-Tetrachloroethane	5.60	83	0	N.D.	
22) 1,3,5-Trimethylbenzene	6.03	105	0	N.D.	
23) 1,2,4-Trimethylbenzene	6.26	105	0	N.D.	
24) 1,3-Dichlorobenzene	6.39	146	0	N.D.	
25) 1,4-Dichlorobenzene	6.47	146	0	N.D.	
26) 1,2-Dichlorobenzene	6.63	146	0	N.D.	
27) Undecane	7.03	57	0	N.D.	
28) Naphthalene	7.84	128	0	N.D.	
29) Tridecane	8.42	57	0	N.D.	
30) 2-Methyl naphthalene	8.60	142	0	N.D.	
31) Acenaphthylene	9.60	152	0	N.D.	
32) Pentadecane	9.62	57	0	N.D.	
33) Acenaphthene	9.79	153	0	N.D.	
34) Fluorene	10.36	166	0	N.D.	
35) Phenanthrene	11.44	178	0	N.D.	
36) Anthracene	11.50	178	0	N.D.	
37) Fluoranthene	12.76	202	0	N.D.	
38) Pyrene	13.02	202	0	N.D.	

Data File : C:\MSDCHEM\#8\74768EJF\BLK2.D   Vial: 48
Acq On   : 28 Jun 2008   8:01 am   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:54 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update   : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

BLK2.D   A4-8.M   Wed Jul 02 10:36:07 2008   RPT1   Page 2

Field Exposed Modules
Quantification Reports and Mass Spectra
Production Order #13674768

```
Data File : C:\MSDCHEM\#8\74768EJF\569667S.D          Vial: 38
Acq On    : 28 Jun 2008   3:21 am                     Operator: DC/DD
Sample    :                                           Inst    : Instrumen
Misc      :                                           Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:46 2008          Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8
```

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

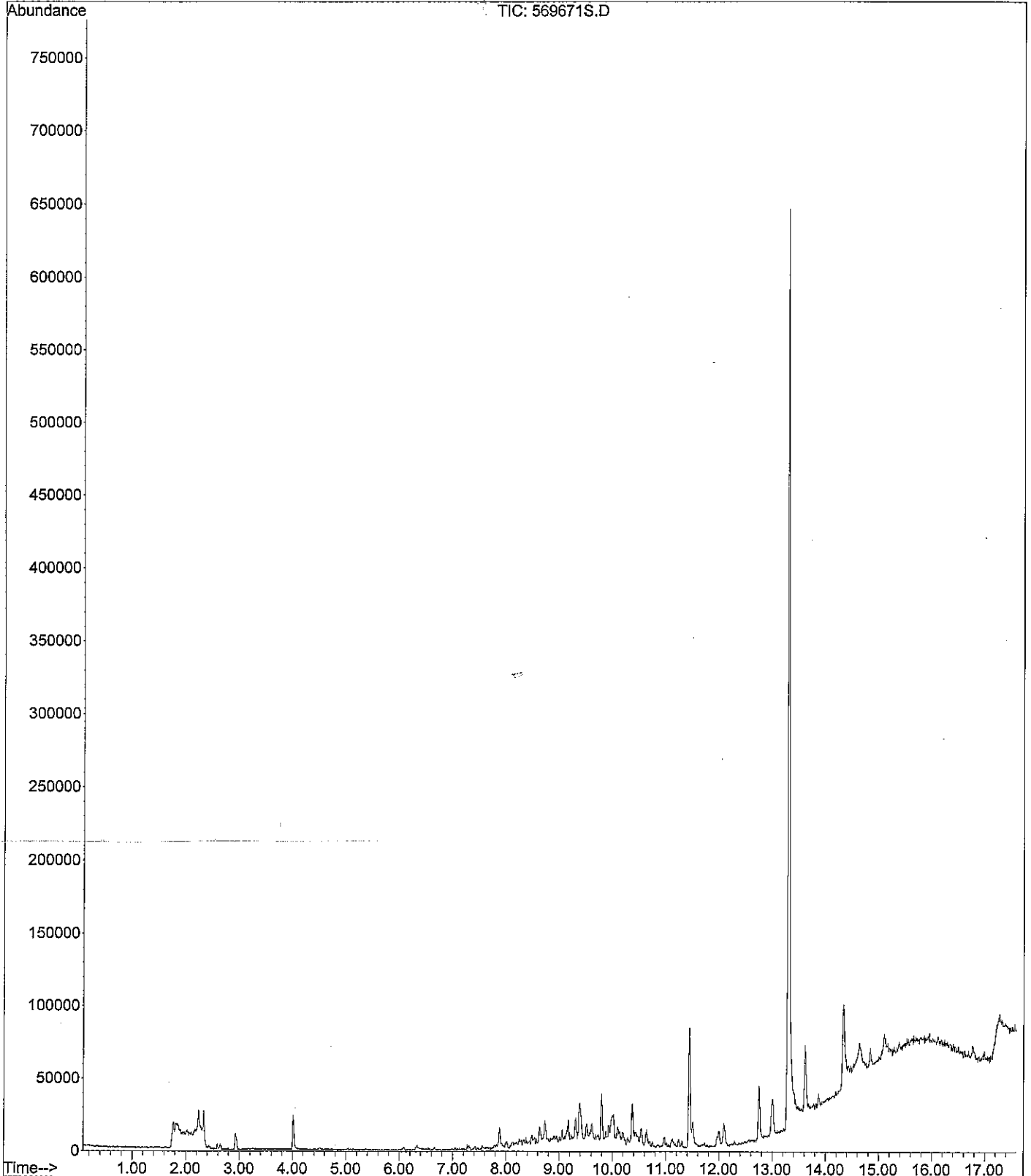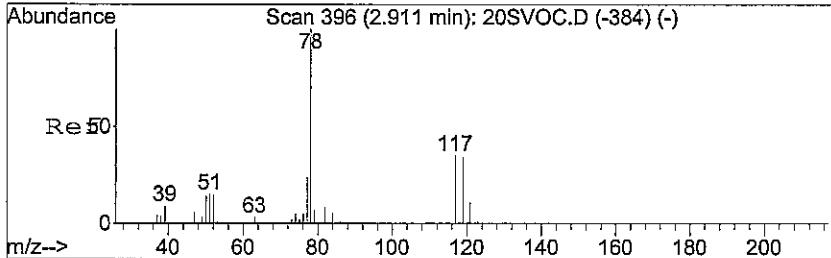| Target Compounds						Qvalue
1) Methyl t-butyl ether	2.30	73	0	N.D.		
2) 1,1-Dichloroethene	2.10	61	0	N.D.		
3) trans-1,2-Dichloroethene	2.30	61	0	N.D.		
4) 1,1-Dichloroethane	2.37	63	0	N.D.		
5) cis-1,2-Dichloroethene	2.52	61	0	N.D.		
6) Chloroform	2.64	83	0	N.D.		
7) 1,1,1-Trichloroethane	2.79	97	0	N.D.		
8) 1,2-Dichloroethane	2.87	62	0	N.D.		
9) Benzene	2.93	78	8626m	0.03	ug	#
10) Carbon tetrachloride	2.92	117	0	N.D.		
11) Trichloroethene	3.28	95	0	N.D.		
12) 1,1,2- Trichloroethane	4.13	97	0	N.D.		
13) Toluene	3.98	91	0	N.D.		
14) Octane	4.29	43	0	N.D.		
15) Tetrachloroethene	4.40	166	0	N.D.		
16) Chlorobenzene	4.86	112	0	N.D.		
17) 1,1,1,2- Tetrachloroethane	4.93	131	0	N.D.		
18) Ethylbenzene	4.99	91	0	N.D.		
19) m,p-Xylene	5.08	91	0	N.D.		
20) o-Xylene	5.32	91	0	N.D.		
21) 1,1,2,2-Tetrachloroethane	5.60	83	0	N.D.		
22) 1,3,5-Trimethylbenzene	6.03	105	0	N.D.		
23) 1,2,4-Trimethylbenzene	6.26	105	0	N.D.		
24) 1,3-Dichlorobenzene	6.39	146	0	N.D.		
25) 1,4-Dichlorobenzene	6.47	146	0	N.D.		
26) 1,2-Dichlorobenzene	6.63	146	0	N.D.		
27) Undecane	7.03	57	0	N.D.		
28) Naphthalene	7.92	128	34031m	0.07	ug	#
29) Tridecane	8.42	57	0	N.D.		
30) 2-Methyl naphthalene	8.60	142	0	N.D.		
31) Acenaphthylene	9.60	152	0	N.D.		
32) Pentadecane	9.62	57	0	N.D.		
33) Acenaphthene	9.82	153	6109m	0.02	ug	#
34) Fluorene	10.36	166	0	N.D.		
35) Phenanthrene	11.44	178	0	N.D.		
36) Anthracene	11.50	178	0	N.D.		
37) Fluoranthene	12.76	202	0	N.D.		
38) Pyrene	13.02	202	0	N.D.		

TIC: 569667S.D

#9
Benzene
Concen: 0.03 ug m
RT: 2.93 min   Scan# 399
Delta R.T.   0.01 min
Lab File: 569667S.D
Acq: 28 Jun 2008   3:21 am

Tgt Ion: 78	Resp:		8626
Ion	Ratio	Lower	Upper
78	100		
51	12.1	13.8	20.6#
52	10.3	13.7	20.5#

#28
Naphthalene
Concen: 0.07 ug m
RT: 7.92 min   Scan# 1097
Delta R.T.   0.08 min
Lab File: 569667S.D
Acq: 28 Jun 2008   3:21 am

Tgt Ion:128	Resp:		34031
Ion	Ratio	Lower	Upper
128	100		
102	0.0	10.1	15.1#
127	0.0	14.2	21.4#

Scan 1358 (9.789 min): 20SVOC.D (-1347) (-)

Abundance

Ref 50

153
76
39 51 63 87 102 110 126 139 165

m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

Abundance Scan 1363 (9.825 min): 569667S.D

Raw 50

153
44 63 76

m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

Abundance Scan 1363 (9.825 min): 569667S.D (-1347) (-)

Sub 50

153
44 63 76

m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

#33
Acenaphthene
Concen: 0.02 ug m
RT: 9.82 min   Scan# 1363
Delta R.T.   0.04 min
Lab File: 569667S.D
Acq: 28 Jun 2008   3:21 am

Tgt Ion:153 Resp: 6109
Ion Ratio   Lower   Upper
153 100
154   80.3   78.6   118.0
152   40.3   42.4   63.6#

Abundance Ion 153.00 (152.70 to 153.70): 569667
4000 Ion 153.95 (153.65 to 154.65): 569667
Ion 152.00 (151.70 to 152.70): 569667

3000   9.82

2000

1000

0

Time--> 9.75   9.80   9.85   9.90

```
Data File : C:\MSDCHEM\#8\74768EJF\569668D.D          Vial: 54
Acq On    : 28 Jun 2008  10:54 am                    Operator: DC/DD
Sample    :                                          Inst    : Instrumen
Misc      :                                          Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:47 2008        Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8
```

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds						Qvalue
1) Methyl t-butyl ether	2.29	73	949m	0.00	ug	#
2) 1,1-Dichloroethene	2.10	61	0	N.D.		
3) trans-1,2-Dichloroethene	2.30	61	0	N.D.		
4) 1,1-Dichloroethane	2.37	63	0	N.D.		
5) cis-1,2-Dichloroethene	2.52	61	0	N.D.		
6) Chloroform	2.64	83	0	N.D.		
7) 1,1,1-Trichloroethane	2.79	97	0	N.D.		
8) 1,2-Dichloroethane	2.87	62	0	N.D.		
9) Benzene	2.92	78	23104m	0.09	ug	#
10) Carbon tetrachloride	2.92	117	0	N.D.		
11) Trichloroethene	3.28	95	0	N.D.		
12) 1,1,2- Trichloroethane	4.13	97	0	N.D.		
13) Toluene	4.00	91	88390m	0.31	ug	#
14) Octane	4.30	43	1190m	0.01	ug	#
15) Tetrachloroethene	4.40	166	0	N.D.		
16) Chlorobenzene	4.86	112	0	N.D.		
17) 1,1,1,2- Tetrachloroethane	4.93	131	0	N.D.		
18) Ethylbenzene	4.99	91	140548m	0.44	ug	#
19) m,p-Xylene	5.08	91	313628m	1.19	ug	#
20) o-Xylene	5.32	91	205237m	0.75	ug	#
21) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D. d		
22) 1,3,5-Trimethylbenzene	6.03	105	500427m	1.70	ug	#
23) 1,2,4-Trimethylbenzene	6.26	105	421696m	1.39	ug	#
24) 1,3-Dichlorobenzene	6.39	146	0	N.D.		
25) 1,4-Dichlorobenzene	6.47	146	0	N.D.		
26) 1,2-Dichlorobenzene	6.63	146	0	N.D.		
27) Undecane	7.03	57	34781m	0.19	ug	#
28) Naphthalene	7.84	128	4988323m	10.83	ug	#
29) Tridecane	8.41	57	10131m	0.05	ug	#
30) 2-Methyl naphthalene	8.59	142	1113345m	3.21	ug	#
31) Acenaphthylene	9.60	152	67041m	0.11	ug	#
32) Pentadecane	9.61	57	5896m	0.03	ug	
33) Acenaphthene	9.78	153	2612362m	7.42	ug	#
34) Fluorene	10.35	166	1856942m	4.35	ug	#
35) Phenanthrene	11.43	178	2871039m	6.72	ug	#
36) Anthracene	11.48	178	1465558m	3.43	ug	#
37) Fluoranthene	12.74	202	557672m	1.31	ug	#
38) Pyrene	13.00	202	308549m	0.72	ug	#

Data File : C:\MSDCHEM\#8\74768EJF\569668D.D   Vial: 54
Acq On   : 28 Jun 2008 10:54 am   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:59 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

#1
Methyl t-butyl ether
Concen: 0.00 ug m
RT: 2.29 min   Scan# 309
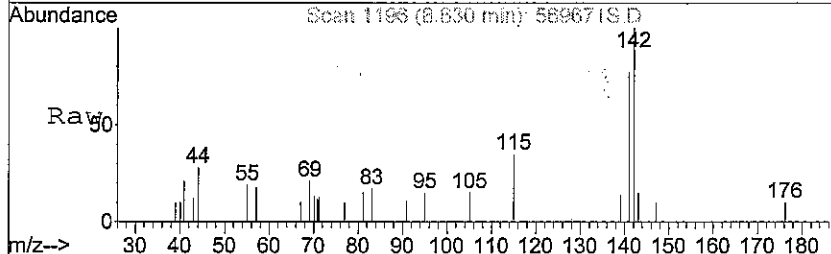Delta R.T.   -0.01 min
Lab File: 569668D.D
Acq: 28 Jun 2008 10:54 am

Tgt Ion: 73	Resp:		949
Ion	Ratio	Lower	Upper
73	100		
57	0.0	17.9	26.9#
41	0.0	16.6	24.8#

#9
Benzene
Concen: 0.09 ug m
RT: 2.92 min   Scan# 398
Delta R.T.   -0.00 min
Lab File: 569668D.D
Acq: 28 Jun 2008 10:54 am

Tgt Ion: 78	Resp:		23104
Ion	Ratio	Lower	Upper
78	100		
51	15.9	13.8	20.6
52	15.9	13.7	20.5

569668D.D   A4-8.M   Wed Jul 02 10:42:29 2008   RPT1   Page 3

#13
Toluene
Concen: 0.31 ug m
RT: 4.00 min   Scan# 548
Delta R.T.   0.01 min
Lab File: 569668D.D
Acq: 28 Jun 2008 10:54 am

Tgt Ion: 91 Resp: 88390

Ion	Ratio	Lower	Upper
91	100		
65	12.2	11.2	16.8
92	57.9	52.9	79.3

Abundance Ion 90.95 (90.65 to 91.65): 569668D.
Ion 65.05 (64.75 to 65.75): 569668D.
Ion 92.05 (91.75 to 92.75): 569668D.

#14
Octane
Concen: 0.01 ug m
RT: 4.30 min   Scan# 590
Delta R.T.   0.01 min
Lab File: 569668D.D
Acq: 28 Jun 2008 10:54 am

Tgt Ion: 43 Resp: 1190

Ion	Ratio	Lower	Upper
43	100		
85	27.1	42.1	63.1#
57	25.6	34.5	51.7#

Abundance Ion 43.00 (42.70 to 43.70): 569668D.
Ion 85.00 (84.70 to 85.70): 569668D.
Ion 57.00 (56.70 to 57.70): 569668D.

#18
Ethylbenzene
Concen: 0.44 ug m
RT: 4.99 min   Scan# 687
Delta R.T.   -0.00 min
Lab File: 569668D.D
Acq: 28 Jun 2008 10:54 am

Tgt Ion: 91 Resp: 140548

Ion	Ratio	Lower	Upper
91	100		
106	31.3	30.8	46.2
51	9.9	9.4	14.0

#19
m,p-Xylene
Concen: 1.19 ug m
RT: 5.08 min   Scan# 700
Delta R.T.   -0.00 min
Lab File: 569668D.D
Acq: 28 Jun 2008 10:54 am

Tgt Ion: 91 Resp: 313628

Ion	Ratio	Lower	Upper
91	100		
106	49.6	45.1	67.7
105	22.9	20.6	31.0

#20
o-Xylene
Concen: 0.75 ug m
RT: 5.32 min   Scan# 733
Delta R.T.   -0.00 min
Lab File: 569668D.D
Acq: 28 Jun 2008   10:54 am

Tgt Ion: 91 Resp: 205237

Ion	Ratio	Lower	Upper
91	100		
106	46.1	43.1	64.7
105	19.8	18.2	27.2

#22
1,3,5-Trimethylbenzene
Concen: 1.70 ug m
RT: 6.03 min   Scan# 832
Delta R.T.   -0.00 min
Lab File: 569668D.D
Acq: 28 Jun 2008   10:54 am

Tgt Ion:105 Resp: 500427

Ion	Ratio	Lower	Upper
105	100		
120	48.8	45.1	67.7
77	11.9	12.2	18.4#

#23
1,2,4-Trimethylbenzene
Concen: 1.39 ug m
RT: 6.26 min   Scan# 864
Delta R.T.   -0.00 min
Lab File: 569668D.D
Acq: 28 Jun 2008 10:54 am

Tgt Ion:105 Resp: 421696

Ion	Ratio	Lower	Upper
105	100		
120	45.2	42.9	64.3
77	11.8	11.9	17.9#

#27
Undecane
Concen: 0.19 ug m
RT: 7.03 min   Scan# 972
Delta R.T.   -0.00 min
Lab File: 569668D.D
Acq: 28 Jun 2008 10:54 am

Tgt Ion: 57 Resp: 34781

Ion	Ratio	Lower	Upper
57	100		
43	41.7	66.6	100.0#
71	27.2	44.7	67.1#

#28
Naphthalene
Concen: 10.83 ug m
RT: 7.84 min   Scan# 1086
Delta R.T.   −0.00 min
Lab File: 569668D.D
Acq: 28 Jun 2008   10:54 am

Tgt Ion:128 Resp: 4988323

Ion	Ratio	Lower	Upper
128	100		
102	9.6	10.1	15.1#
127	13.4	14.2	21.4#

#29
Tridecane
Concen: 0.05 ug m
RT: 8.41 min   Scan# 1165
Delta R.T.   −0.01 min
Lab File: 569668D.D
Acq: 28 Jun 2008   10:54 am

Tgt Ion: 57 Resp: 10131

Ion	Ratio	Lower	Upper
57	100		
43	38.9	61.8	92.8#
71	24.9	54.4	81.6#

569668D.D   A4-8.M   Wed Jul 02 10:42:29 2008   RPT1   Page 8

#30
2-Methyl naphthalene
Concen: 3.21 ug m
RT: 8.59 min   Scan# 1191
Delta R.T.   -0.01 min
Lab File: 569668D.D
Acq: 28 Jun 2008   10:54 am

Tgt Ion:142 Resp: 1113345

Ion	Ratio	Lower	Upper
142	100		
141	83.9	69.2	103.8
115	30.7	29.8	44.8

#31
Acenaphthylene
Concen: 0.11 ug m
RT: 9.60 min   Scan# 1331
Delta R.T.   -0.01 min
Lab File: 569668D.D
Acq: 28 Jun 2008   10:54 am

Tgt Ion:152 Resp: 67041

Ion	Ratio	Lower	Upper
152	100		
76	17.1	12.6	18.8
151	19.0	21.7	32.5#

#32
Pentadecane
Concen: 0.03 ug m
RT: 9.61 min   Scan# 1333
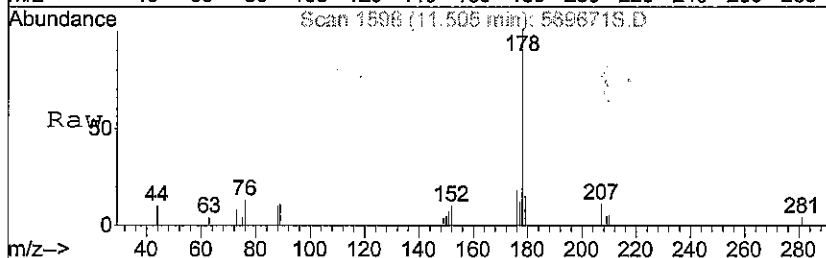Delta R.T.   −0.01 min
Lab File: 569668D.D
Acq: 28 Jun 2008   10:54 am

Tgt Ion: 57 Resp: 5896
Ion   Ratio   Lower   Upper
 57   100
 43   32.5   57.7   86.5#
 71   22.7   58.2   87.2#

#33
Acenaphthene
Concen: 7.42 ug m
RT: 9.78 min   Scan# 1357
Delta R.T.   −0.01 min
Lab File: 569668D.D
Acq: 28 Jun 2008   10:54 am

Tgt Ion:153 Resp: 2612362
Ion   Ratio   Lower   Upper
153   100
154   95.6   78.6   118.0
152   46.6   42.4   63.6

#34
Fluorene
Concen: 4.35 ug m
RT: 10.35 min   Scan# 1437
Delta R.T.   -0.01 min
Lab File: 569668D.D
Acq: 28 Jun 2008   10:54 am

Tgt Ion:166 Resp: 1856942

Ion	Ratio	Lower	Upper
166	100		
165	90.2	73.4	110.2
82	28.6	13.8	20.8#

#35
Phenanthrene
Concen: 6.72 ug m
RT: 11.43 min   Scan# 1587
Delta R.T.   -0.01 min
Lab File: 569668D.D
Acq: 28 Jun 2008   10:54 am

Tgt Ion:178 Resp: 2871039

Ion	Ratio	Lower	Upper
178	100		
152	10.0	7.0	10.6
179	15.9	12.9	19.3

569668D.D   A4-8.M   Wed Jul 02 10:42:30 2008   RPT1   Page 11

#36
Anthracene
Concen: 3.43 ug m
RT: 11.48 min   Scan# 1595
Delta R.T.   -0.02 min
Lab File: 569668D.D
Acq: 28 Jun 2008   10:54 am

Tgt Ion:178 Resp: 1465558
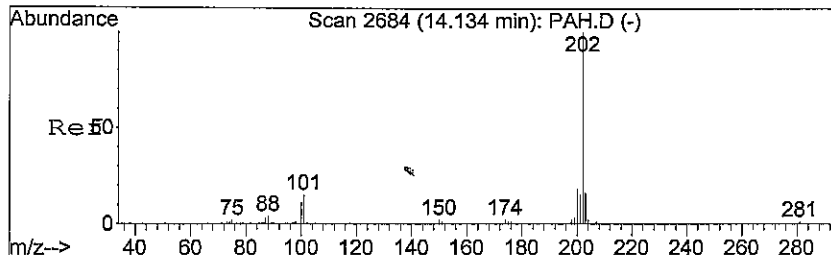Ion Ratio   Lower   Upper
178 100
152   7.6   6.2   9.4
179   14.4   12.1   18.1

#37
Fluoranthene
Concen: 1.31 ug m
RT: 12.74 min   Scan# 1771
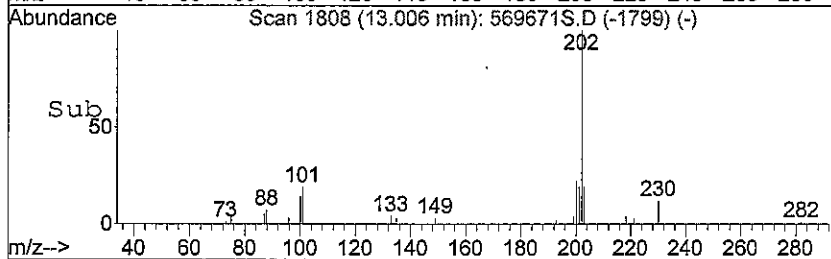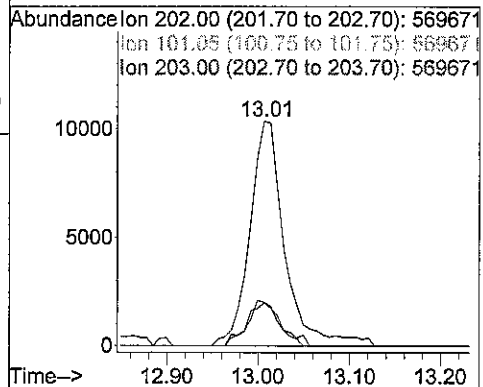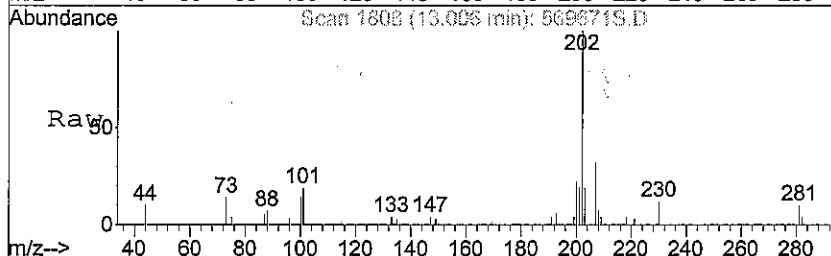Delta R.T.   -0.01 min
Lab File: 569668D.D
Acq: 28 Jun 2008   10:54 am

Tgt Ion:202 Resp: 557672
Ion Ratio   Lower   Upper
202 100
101   12.6   10.0   15.0
203   16.7   13.8   20.6

Abundance — Scan 2684 (14.134 min): PAH.D (-)

Re 50

202
73 87 101 150 174 281

m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Abundance — Scan 1807 (12.999 min): 569668D.D

Raw 50

202
44 74 87 101 122 150 174 218 267 281

m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Abundance — Scan 1807 (12.999 min): 569668D.D (-1799) (-)

Sub 50

202
50 74 87 101 122 150 174 218 281

m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

#38
Pyrene
Concen: 0.72 ug m
RT: 13.00 min   Scan# 1807
Delta R.T.   -0.02 min
Lab File: 569668D.D
Acq: 28 Jun 2008   10:54 am

Tgt Ion:202 Resp: 308549
Ion Ratio   Lower   Upper
202 100
101   16.1   12.5   18.7
203   20.6   12.5   18.7#

Abundance Ion 202.00 (201.70 to 202.70): 569668
Ion 101.05 (100.75 to 101.75): 569668
Ion 203.00 (202.70 to 203.70): 569668

150000

13.00

100000

50000

0

Time--> 12.80 12.90 13.00 13.10 13.20 13.30

```
                    Quantitation Report      (QT Reviewed)

Data File : C:\MSDCHEM\#8\74768EJF\569668S.D          Vial: 53
Acq On    : 28 Jun 2008  10:21 am                  Operator: DC/DD
Sample    :                                        Inst    : Instrumen
Misc      :                                        Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:47 2008          Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8

  Internal Standards             R.T. QIon  Response  Conc Units Dev(Min)
  -----------------------------------------------------------------------

Target Compounds                                                  Qvalue
   1) Methyl t-butyl ether       2.30   73    1053m   0.01 ug     #
   2) 1,1-Dichloroethene         2.10   61       0    N.D.
   3) trans-1,2-Dichloroethene   2.30   61       0    N.D.
   4) 1,1-Dichloroethane         2.37   63       0    N.D.
   5) cis-1,2-Dichloroethene     2.52   61       0    N.D.
   6) Chloroform                 2.64   83       0    N.D.
   7) 1,1,1-Trichloroethane      2.79   97       0    N.D.
   8) 1,2-Dichloroethane         2.87   62       0    N.D.
   9) Benzene                    2.93   78   61133m   0.24 ug     #
  10) Carbon tetrachloride       2.92  117       0    N.D.
  11) Trichloroethene            3.28   95       0    N.D.
  12) 1,1,2- Trichloroethane     4.13   97       0    N.D.
  13) Toluene                    4.00   91  123587m   0.44 ug     #
  14) Octane                     4.30   43    1278m   0.01 ug     #
  15) Tetrachloroethene          4.41  166    1122m   0.01 ug     #
  16) Chlorobenzene              4.86  112       0    N.D.
  17) 1,1,1,2- Tetrachloroethane 4.93  131       0    N.D.
  18) Ethylbenzene               5.00   91  154632m   0.49 ug     #
  19) m,p-Xylene                 5.08   91  305404m   1.16 ug     #
  20) o-Xylene                   5.32   91  196380m   0.72 ug     #
  21) 1,1,2,2-Tetrachloroethane  0.00   83       0    N.D. d
  22) 1,3,5-Trimethylbenzene     6.03  105  443682m   1.51 ug     #
  23) 1,2,4-Trimethylbenzene     6.26  105  360040m   1.18 ug     #
  24) 1,3-Dichlorobenzene        6.39  146       0    N.D.
  25) 1,4-Dichlorobenzene        6.47  146       0    N.D.
  26) 1,2-Dichlorobenzene        6.63  146       0    N.D.
  27) Undecane                   7.02   57   64640m   0.35 ug
  28) Naphthalene                7.84  128 7580695m  16.46 ug     #
  29) Tridecane                  8.41   57   22067m   0.11 ug
  30) 2-Methyl naphthalene       8.59  142 2779502m   8.01 ug     #
  31) Acenaphthylene             9.60  152  124833m   0.21 ug     #
  32) Pentadecane                9.58   57   10909m   0.05 ug
  33) Acenaphthene               9.79  153 5335452m  15.15 ug     #
  34) Fluorene                  10.35  166 3012761m   7.05 ug     #
  35) Phenanthrene              11.42  178 3836553m   8.98 ug     #
  36) Anthracene                11.48  178 1707193m   4.00 ug     #
  37) Fluoranthene              12.74  202  610843m   1.43 ug     #
  38) Pyrene                    13.00  202  330691m   0.77 ug     #


-------------------------------------------------------------------------
(#) = qualifier out of range (m) = manual integration (+) = signals summed
569668S.D  A4-8.M       Wed Jul 02 10:36:53 2008      RPT1        Page 1
```
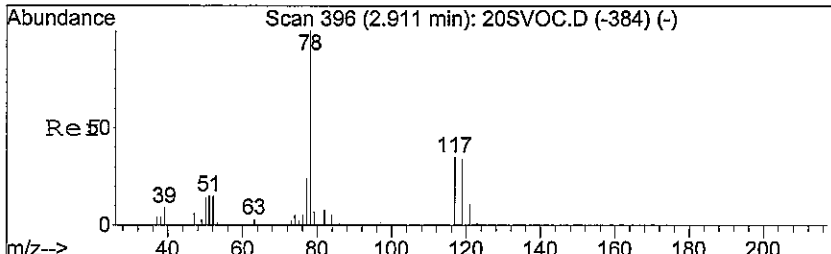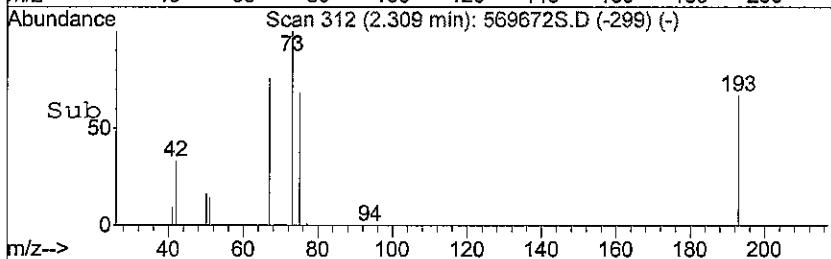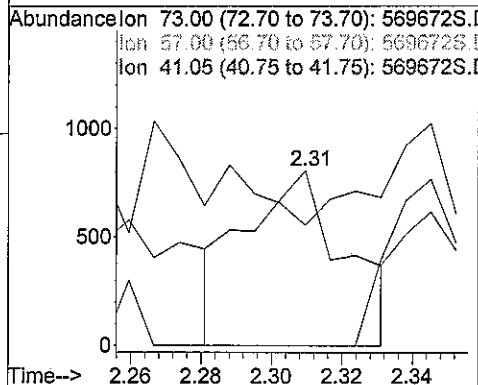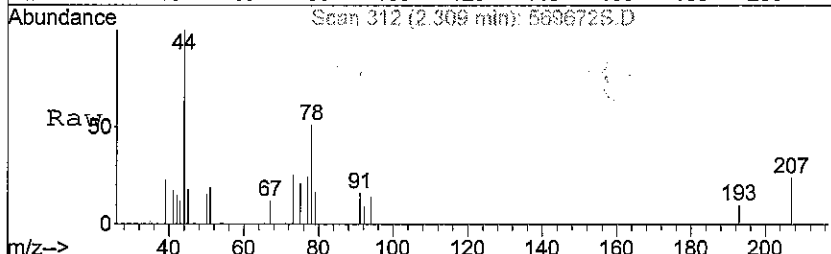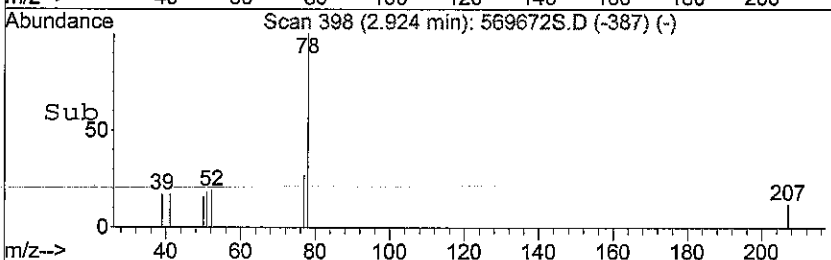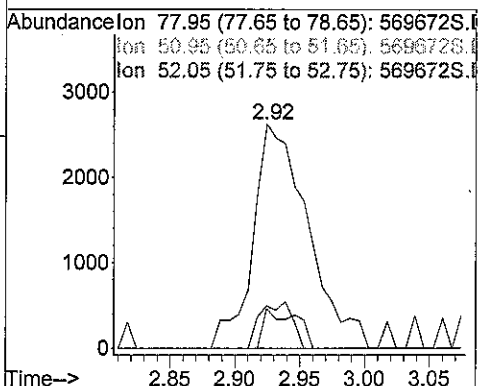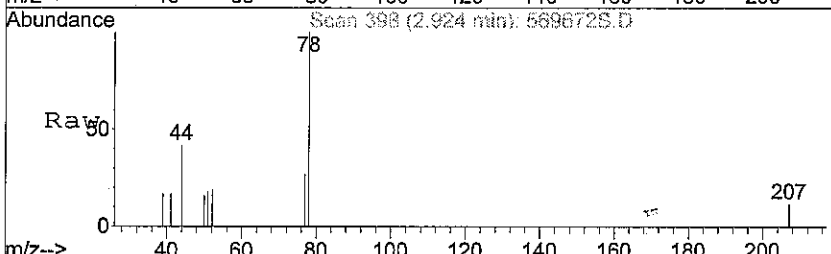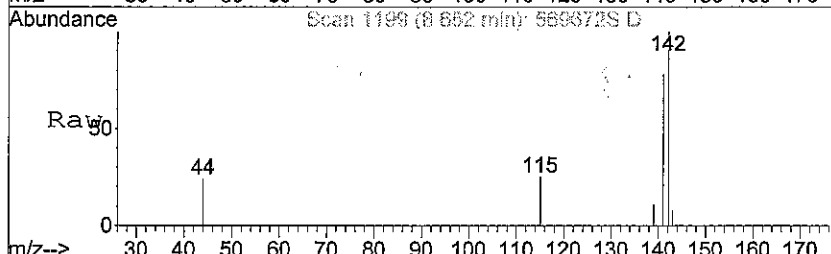
Data File : C:\MSDCHEM\#8\74768EJF\569668S.D   Vial: 53
Acq On   : 28 Jun 2008 10:21 am   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 15:00 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

#1
Methyl t-butyl ether
Concen: 0.01 ug m
RT: 2.30 min   Scan# 311
Delta R.T.   0.01 min
Lab File: 569668S.D
Acq: 28 Jun 2008 10:21 am

Tgt Ion: 73	Resp:		1053
Ion	Ratio	Lower	Upper
73	100		
57	0.0	17.9	26.9#
41	0.0	16.6	24.8#

Abundance Ion 73.00 (72.70 to 73.70): 569668S.
Ion 57.00 (56.70 to 57.70): 569668S.
Ion 41.05 (40.75 to 41.75): 569668S.

#9
Benzene
Concen: 0.24 ug m
RT: 2.93 min   Scan# 399
Delta R.T.   0.01 min
Lab File: 569668S.D
Acq: 28 Jun 2008 10:21 am

Tgt Ion: 78	Resp:		61133
Ion	Ratio	Lower	Upper
78	100		
51	16.6	13.8	20.6
52	15.9	13.7	20.5

Abundance Ion 77.95 (77.65 to 78.65): 569668S.
Ion 50.95 (50.65 to 51.65): 569668S.
Ion 52.05 (51.75 to 52.75): 569668S.

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#13
Toluene
Concen: 0.44 ug m.
RT: 4.00 min   Scan# 548
Delta R.T.   0.01 min
Lab File: 569668S.D
Acq: 28 Jun 2008   10:21 am

Tgt Ion: 91 Resp: 123587

Ion	Ratio	Lower	Upper
91	100		
65	12.0	11.2	16.8
92	58.9	52.9	79.3

#14
Octane
Concen: 0.01 ug m
RT: 4.30 min   Scan# 590
Delta R.T.   0.01 min
Lab File: 569668S.D
Acq: 28 Jun 2008   10:21 am

Tgt Ion: 43 Resp: 1278

Ion	Ratio	Lower	Upper
43	100		
85	22.8	42.1	63.1#
57	33.4	34.5	51.7#

Top panel — Tetrachloroethene:

Scan 605 (4.405 min): 20SVOC.D (-598) (-) — Ref: peaks at m/z 37, 47, 59, 70, 82, 94, 119, 129, 166

Scan 606 (4.412 min): 569668S.D — Raw: peaks at m/z 44, 55, 78, 97, 131, 166

Scan 606 (4.412 min): 569668S.D (-594) (-) — Sub: peaks at m/z 44, 78, 94, 131, 166

#15
Tetrachloroethene
Concen: 0.01 ug m
RT: 4.41 min   Scan# 606
Delta R.T.   0.01 min
Lab File: 569668S.D
Acq: 28 Jun 2008   10:21 am

Tgt Ion:166 Resp: 1122
Ion Ratio   Lower   Upper
166 100
129 68.4   55.0   82.6
 94 29.3   29.9   44.9#

Abundance Ion 165.80 (165.50 to 166.50): 569668
Ion 128.75 (128.45 to 129.45): 569668
Ion 93.85 (93.55 to 94.55): 569668S.
Peak at 4.41

Bottom panel — Ethylbenzene:

Scan 688 (4.999 min): 20SVOC.D (-677) (-) — Ref: peaks at m/z 39, 44, 51, 65, 77, 85, 91, 101, 106

Scan 688 (4.998 min): 569668S.D — Raw: peaks at m/z 39, 44, 51, 65, 77, 91, 106

Scan 688 (4.998 min): 569668S.D (-676) (-) — Sub: peaks at m/z 39, 51, 65, 77, 91, 106

#18
Ethylbenzene
Concen: 0.49 ug m
RT: 5.00 min   Scan# 688
Delta R.T.   0.01 min
Lab File: 569668S.D
Acq: 28 Jun 2008   10:21 am

Tgt Ion: 91 Resp: 154632
Ion Ratio   Lower   Upper
 91 100
106 30.2   30.8   46.2#
 51 10.0   9.4   14.0

Abundance Ion 90.95 (90.65 to 91.65): 569668S.
Ion 106.05 (105.75 to 106.75): 569668
Ion 51.05 (50.75 to 51.75): 569668S.
Peak at 5.00

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#19
m,p-Xylene
Concen: 1.16 ug m
RT: 5.08 min   Scan# 700
Delta R.T.   -0.00 min
Lab File: 569668S.D
Acq: 28 Jun 2008   10:21 am

Tgt Ion: 91 Resp: 305404
Ion Ratio Lower Upper
 91 100
106   49.7   45.1   67.7
105   22.1   20.6   31.0

#20
o-Xylene
Concen: 0.72 ug m
RT: 5.32 min   Scan# 733
Delta R.T.   -0.00 min
Lab File: 569668S.D
Acq: 28 Jun 2008   10:21 am

Tgt Ion: 91 Resp: 196380
Ion Ratio Lower Upper
 91 100
106   46.9   43.1   64.7
105   19.2   18.2   27.2

Abundance   Scan 833 (6.036 min): 20SVOC.D (-826) (-)

Re 50

105
120
39 51 58 65 77 91 84 98 113 146
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150

Abundance   Scan 832 (6.028 min): 569668S.D

Raw 50

105
120
39 51 58 65 77 91 98
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150

Abundance   Scan 832 (6.028 min): 569668S.D (-821) (-)

Sub 50

105 120
39 51 58 65 77 91 98
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150

#22
1,3,5-Trimethylbenzene
Concen: 1.51 ug m
RT: 6.03 min   Scan# 832
Delta R.T.   -0.00 min
Lab File: 569668S.D
Acq: 28 Jun 2008   10:21 am

Tgt Ion:105 Resp: 443682
Ion   Ratio   Lower   Upper
105   100
120   48.9   45.1   67.7
77   12.0   12.2   18.4#

Abundance Ion 105.05 (104.75 to 105.75): 569668
Ion 120.05 (119.75 to 120.75): 569668
Ion 76.95 (76.65 to 77.65): 569668.D

400000

300000

200000

100000

6.03

Time--> 6.00 6.05 6.10

Abundance   Scan 865 (6.264 min): 20SVOC.D (-853) (-)

Re 50

105
120
39 51 58 65 77 91 84 98 113 146
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150

Abundance   Scan 864 (6.257 min): 569668S.D

Raw 50

105
120
39 51 63 77 91 98
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150

Abundance   Scan 864 (6.257 min): 569668S.D (-853) (-)

Sub 50

105
120
39 51 63 77 91 98
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150

#23
1,2,4-Trimethylbenzene
Concen: 1.18 ug m
RT: 6.26 min   Scan# 864
Delta R.T.   -0.00 min
Lab File: 569668S.D
Acq: 28 Jun 2008   10:21 am

Tgt Ion:105 Resp: 360040
Ion   Ratio   Lower   Upper
105   100
120   45.1   42.9   64.3
77   12.3   11.9   17.9

Abundance Ion 105.05 (104.75 to 105.75): 569668
Ion 120.05 (119.75 to 120.75): 569668
Ion 76.95 (76.65 to 77.65): 569668.D

300000

200000

100000

6.26

Time--> 6.15 6.20 6.25 6.30 6.35 6.40

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#27
Undecane
Concen: 0.35 ug m
RT: 7.02 min   Scan# 971
Delta R.T.   -0.01 min
Lab File: 569668S.D
Acq: 28 Jun 2008 10:21 am

Tgt Ion: 57 Resp: 64640
Ion   Ratio   Lower   Upper
 57   100
 43   54.3   66.6   100.0#
 71   32.9   44.7   67.1#

#28
Naphthalene
Concen: 16.46 ug m
RT: 7.84 min   Scan# 1086
Delta R.T.   -0.00 min
Lab File: 569668S.D
Acq: 28 Jun 2008 10:21 am

Tgt Ion:128 Resp: 7580695
Ion   Ratio   Lower   Upper
128   100
102   10.6   10.1   15.1
127   14.6   14.2   21.4

#29
Tridecane
Concen: 0.11 ug m
RT: 8.41 min   Scan# 1165
Delta R.T.   -0.01 min
Lab File: 569668S.D
Acq: 28 Jun 2008 10:21 am

Tgt Ion: 57 Resp: 22067
Ion   Ratio   Lower   Upper
 57   100
 43   37.8   61.8   92.8#
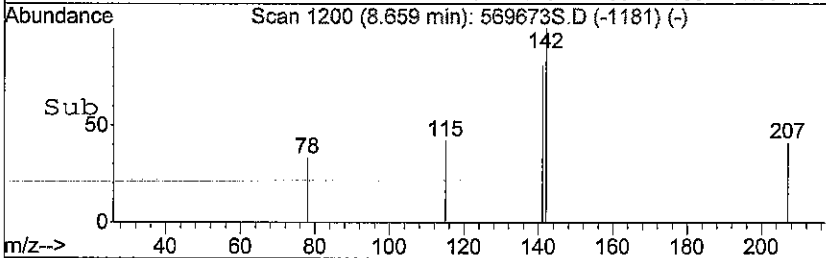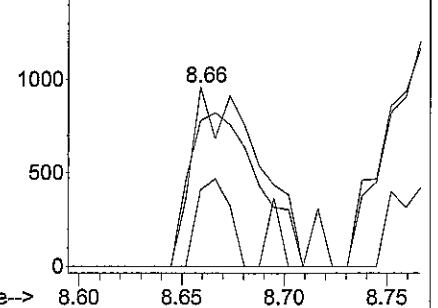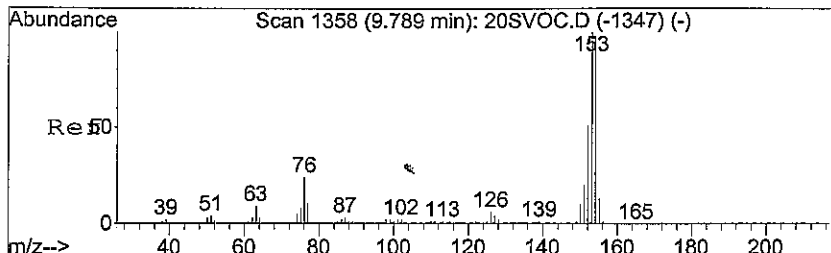 71   30.9   54.4   81.6#

#30
2-Methyl naphthalene
Concen: 8.01 ug m
RT: 8.59 min   Scan# 1191
Delta R.T.   -0.01 min
Lab File: 569668S.D
Acq: 28 Jun 2008 10:21 am

Tgt Ion:142 Resp: 2779502
Ion   Ratio   Lower   Upper
142   100
141   83.7   69.2   103.8
115   31.3   29.8   44.8

#31
Acenaphthylene
Concen: 0.21 ug m
RT: 9.60 min   Scan# 1331
Delta R.T.   -0.01 min
Lab File: 569668S.D
Acq: 28 Jun 2008 10:21 am

Tgt Ion:152 Resp: 124833

Ion	Ratio	Lower	Upper
152	100		
76	19.3	12.6	18.8#
151	20.1	21.7	32.5#

#32
Pentadecane
Concen: 0.05 ug m
RT: 9.58 min   Scan# 1329
Delta R.T.   -0.04 min
Lab File: 569668S.D
Acq: 28 Jun 2008 10:21 am

Tgt Ion: 57 Resp: 10909

Ion	Ratio	Lower	Upper
57	100		
43	18.0	57.7	86.5#
71	57.4	58.2	87.2#

Scan 1358 (9.789 min): 20SVOC.D (-1347) (-)

Scan 1358 (9.789 min): 569668S.D

Scan 1358 (9.789 min): 569668S.D (-1347) (-)

#33
Acenaphthene
Concen: 15.15 ug m
RT: 9.79 min   Scan# 1358
Delta R.T.   −0.00 min
Lab File: 569668S.D
Acq: 28 Jun 2008 10:21 am

Tgt Ion:153 Resp: 5335452

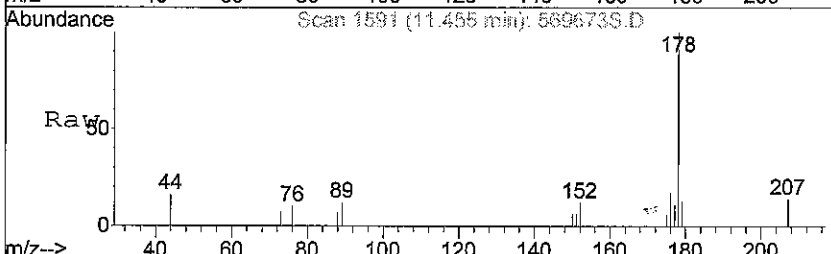| Ion	Ratio	Lower	Upper
153	100		
154	96.7	78.6	118.0
152	48.4	42.4	63.6

Abundance Ion 153.00 (152.70 to 153.70): 569668
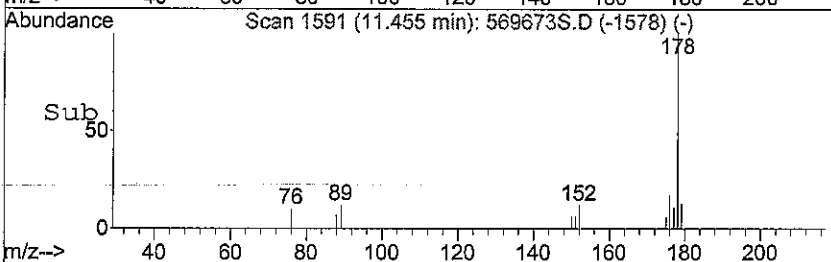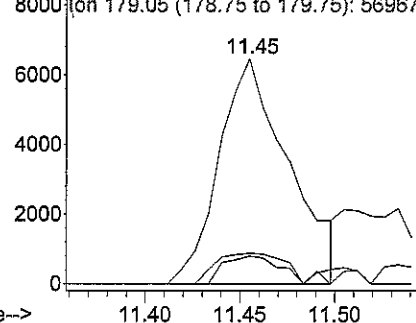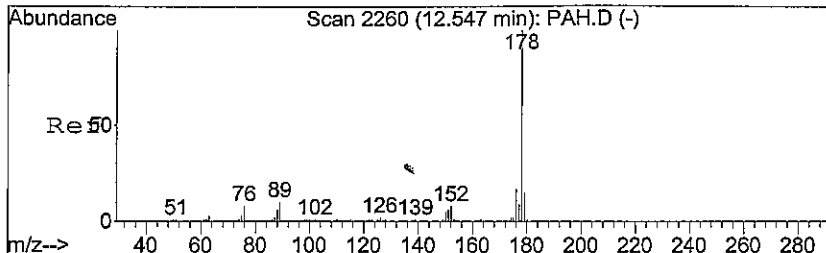Ion 153.95 (153.65 to 154.65): 569668
Ion 152.00 (151.70 to 152.70): 569668

Scan 1438 (10.361 min): 20SVOC.D (-1428) (-)

Scan 1437 (10.354 min): 569668S.D

Scan 1437 (10.354 min): 569668S.D (-1427) (-)

#34
Fluorene
Concen: 7.05 ug m
RT: 10.35 min   Scan# 1437
Delta R.T.   −0.01 min
Lab File: 569668S.D
Acq: 28 Jun 2008 10:21 am

Tgt Ion:166 Resp: 3012761

Ion	Ratio	Lower	Upper
166	100		
165	90.0	73.4	110.2
82	28.7	13.8	20.8#

Abundance Ion 166.00 (165.70 to 166.70): 569668
Ion 165.00 (164.70 to 165.70): 569668
Ion 82.40 (82.10 to 83.10): 569668S.

Scan 2244 (12.487 min): PAH.D (-)

Abundance / Ref / 50 / 0

m/z--> 39 50 63 76 89 99 111 125 139 152 163 178

Scan 1586 (11.419 min): 569668S.D

Abundance / Raw / 50 / 0

m/z--> 39 51 63 76 89 99 111 126 139 152 162 178 191 209

Scan 1586 (11.419 min): 569668S.D (-1578) (-)

Abundance / Sub / 50 / 0

m/z--> 39 50 63 76 89 99 111 126 139 152 162 178 189 212

#35
Phenanthrene
Concen: 8.98 ug m
RT: 11.42 min   Scan# 1586
Delta R.T.   -0.02 min
Lab File: 569668S.D
Acq: 28 Jun 2008   10:21 am

Tgt Ion:178 Resp: 3836553

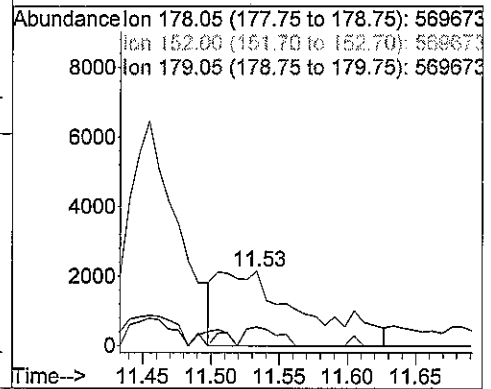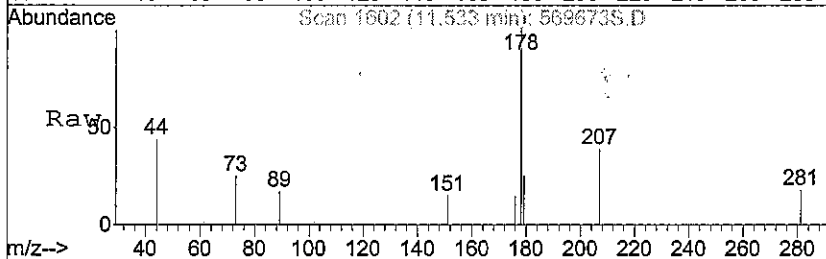| Ion	Ratio	Lower	Upper
178	100		
152	10.2	7.0	10.6
179	16.0	12.9	19.3

Abundance Ion 178.05 (177.75 to 178.75): 569668
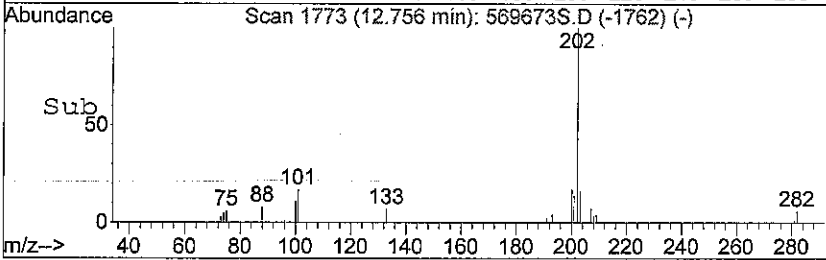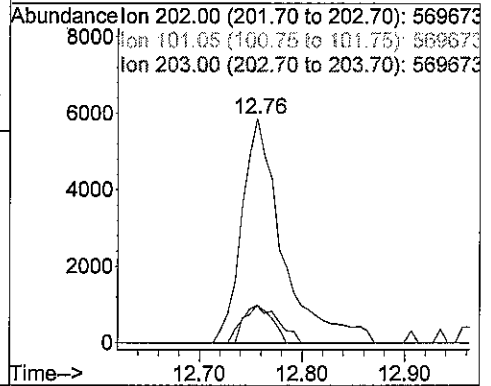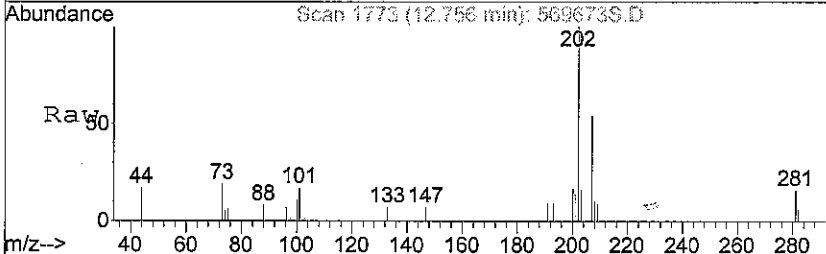Ion 152.00 (151.70 to 152.70): 569668
Ion 179.05 (178.75 to 179.75): 569668

Time--> 11.35 11.40 11.45

Scan 2260 (12.547 min): PAH.D (-)

Abundance / Ref / 50 / 0

m/z--> 39 51 63 76 89 99 110 126 139 152 163 178

Scan 1595 (11.483 min): 569668S.D

Abundance / Raw / 50 / 0

m/z--> 39 50 63 76 89 99 109 127 139 152 162 178 189 207

Scan 1595 (11.483 min): 569668S.D (-1587) (-)

Abundance / Sub / 50 / 0

m/z--> 64 82 104 141 154 195 210

#36
Anthracene
Concen: 4.00 ug m
RT: 11.48 min   Scan# 1595
Delta R.T.   -0.02 min
Lab File: 569668S.D
Acq: 28 Jun 2008   10:21 am

Tgt Ion:178 Resp: 1707193

Ion	Ratio	Lower	Upper
178	100		
152	7.6	6.2	9.4
179	14.7	12.1	18.1

Abundance Ion 178.05 (177.75 to 178.75): 569668
Ion 152.00 (151.70 to 152.70): 569668
Ion 179.05 (178.75 to 179.75): 569668

Time--> 11.40 11.50 11.60 11.70

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Scan 2608 (13.850 min): PAH.D (-)

Scan 1771 (12.742 min): 569668S.D

Scan 1771 (12.742 min): 569668S.D (-1762) (-)

#37
Fluoranthene
Concen: 1.43 ug m
RT: 12.74 min   Scan# 1771
Delta R.T.   -0.01 min
Lab File: 569668S.D
Acq: 28 Jun 2008   10:21 am

Tgt Ion:202 Resp: 610843
Ion   Ratio   Lower   Upper
202   100
101   12.8   10.0   15.0
203   16.5   13.8   20.6

Abundance Ion 202.00 (201.70 to 202.70): 569668
Ion 101.05 (100.75 to 101.75): 569668
Ion 203.00 (202.70 to 203.70): 569668

Scan 2684 (14.134 min): PAH.D (-)

Scan 1807 (12.999 min): 569668S.D

Scan 1807 (12.999 min): 569668S.D (-1799) (-)

#38
Pyrene
Concen: 0.77 ug m
RT: 13.00 min   Scan# 1807
Delta R.T.   -0.02 min
Lab File: 569668S.D
Acq: 28 Jun 2008   10:21 am

Tgt Ion:202 Resp: 330691
Ion   Ratio   Lower   Upper
202   100
101   16.1   12.5   18.7
203   21.5   12.5   18.7#

Abundance Ion 202.00 (201.70 to 202.70): 569668
Ion 101.05 (100.75 to 101.75): 569668
Ion 203.00 (202.70 to 203.70): 569668

```
Data File : C:\MSDCHEM\#8\74768EJF\569669S.D          Vial: 31
Acq On    : 28 Jun 2008  12:05 am                     Operator: DC/DD
Sample    :                                           Inst     : Instrumen
Misc      :                                           Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:48 2008          Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8
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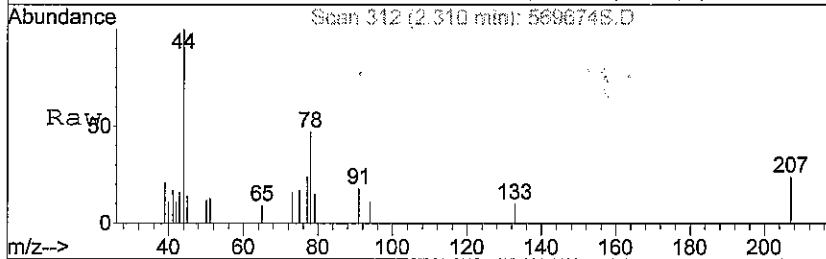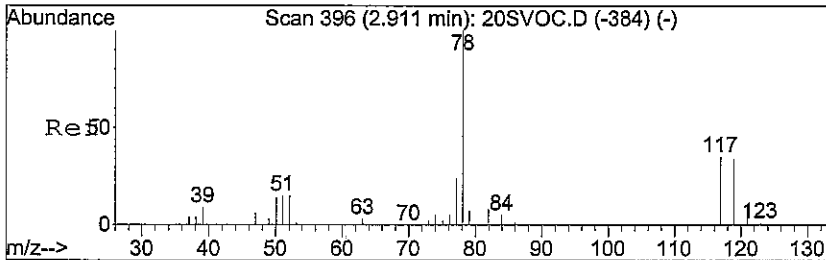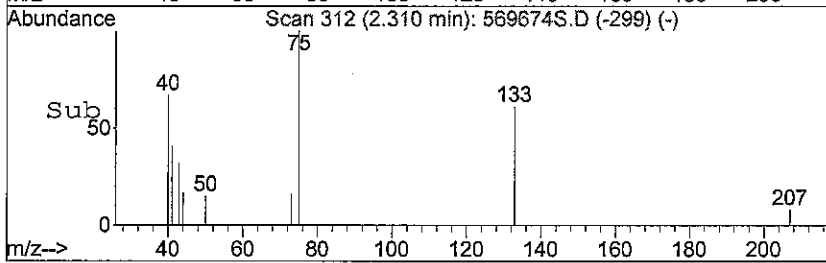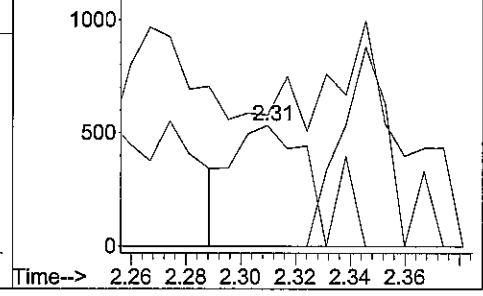
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)

Target Compounds					Qvalue
1) Methyl t-butyl ether	2.30	73	0	N.D.	
2) 1,1-Dichloroethene	2.10	61	0	N.D.	
3) trans-1,2-Dichloroethene	2.30	61	0	N.D.	
4) 1,1-Dichloroethane	2.37	63	0	N.D.	
5) cis-1,2-Dichloroethene	2.52	61	0	N.D.	
6) Chloroform	2.64	83	0	N.D.	
7) 1,1,1-Trichloroethane	2.79	97	0	N.D.	
8) 1,2-Dichloroethane	2.87	62	0	N.D.	
9) Benzene	2.92	78	5952m	0.02 ug	#
10) Carbon tetrachloride	2.92	117	0	N.D.	
11) Trichloroethene	3.28	95	0	N.D.	
12) 1,1,2- Trichloroethane	4.13	97	0	N.D.	
13) Toluene	3.98	91	0	N.D.	
14) Octane	4.29	43	0	N.D.	
15) Tetrachloroethene	4.40	166	0	N.D.	
16) Chlorobenzene	4.86	112	0	N.D.	
17) 1,1,1,2- Tetrachloroethane	4.93	131	0	N.D.	
18) Ethylbenzene	4.99	91	0	N.D.	
19) m,p-Xylene	5.08	91	0	N.D.	
20) o-Xylene	5.32	91	0	N.D.	
21) 1,1,2,2-Tetrachloroethane	5.60	83	0	N.D.	
22) 1,3,5-Trimethylbenzene	6.03	105	0	N.D.	
23) 1,2,4-Trimethylbenzene	6.31	105	3039m	0.01 ug	#
24) 1,3-Dichlorobenzene	6.39	146	0	N.D.	
25) 1,4-Dichlorobenzene	6.47	146	0	N.D.	
26) 1,2-Dichlorobenzene	6.63	146	0	N.D.	
27) Undecane	7.09	57	11507m	0.06 ug	#
28) Naphthalene	7.87	128	117679m	0.26 ug	#
29) Tridecane	8.42	57	0	N.D.	
30) 2-Methyl naphthalene	8.66	142	10606m	0.03 ug	#
31) Acenaphthylene	9.60	152	0	N.D.	
32) Pentadecane	9.62	57	0	N.D.	
33) Acenaphthene	9.81	153	16896m	0.05 ug	#
34) Fluorene	10.39	166	7417m	0.02 ug	#
35) Phenanthrene	11.46	178	14595m	0.03 ug	#
36) Anthracene	11.52	178	10365m	0.02 ug	
37) Fluoranthene	12.76	202	6811m	0.02 ug	#
38) Pyrene	13.01	202	6016m	0.01 ug	#

Data File : C:\MSDCHEM\#8\74768EJF\569669S.D   Vial: 31
Acq On   : 28 Jun 2008   12:05 am   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 15:01 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

Re50

78
117
39 51
63 70   84
123
m/z--> 30 40 50 60 70 80 90 100 110 120 130

Abundance   Scan 398 (2.924 min): 569669S.D

Raw50

78
44
51

m/z--> 30 40 50 60 70 80 90 100 110 120 130

Abundance   Scan 398 (2.924 min): 569669S.D (-387) (-)

Sub50

78
39 51

m/z--> 30 40 50 60 70 80 90 100 110 120 130

#9
Benzene
Concen: 0.02 ug m
RT: 2.92 min   Scan# 398
Delta R.T.   -0.00 min
Lab File: 569669S.D
Acq: 28 Jun 2008   12:05 am

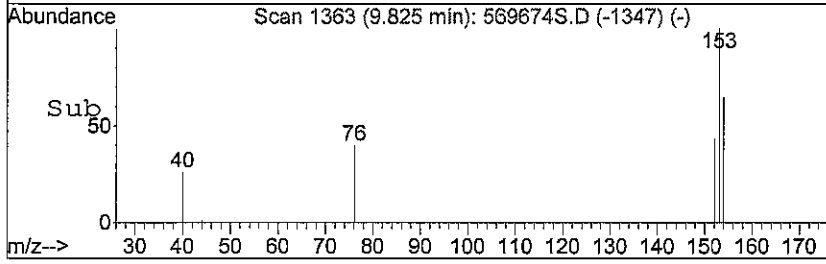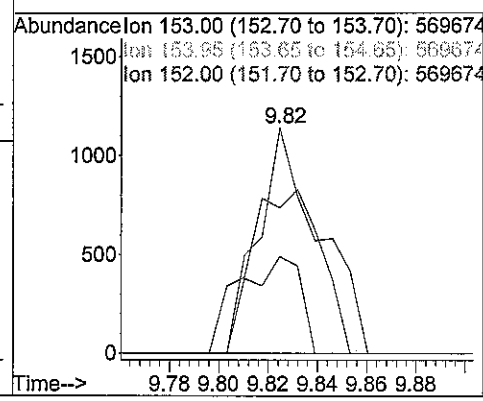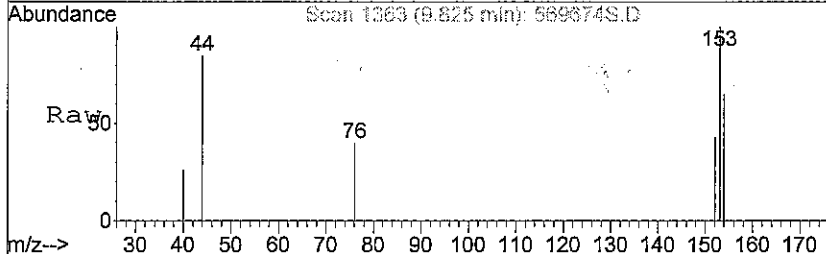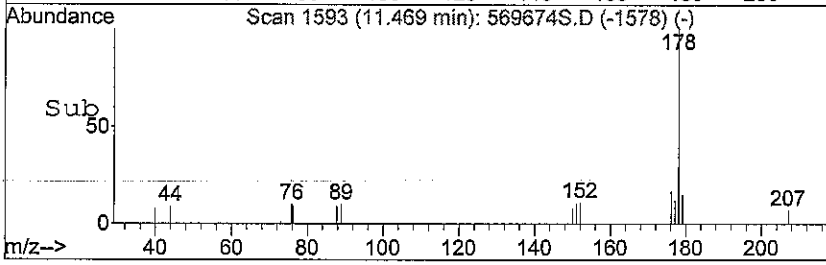| Tgt Ion: 78	Resp:		5952
Ion	Ratio	Lower	Upper
78	100		
51	3.0	13.8	20.6#
52	2.3	13.7	20.5#

Abundance Ion 77.95 (77.65 to 78.65): 569669S.
3000 Ion 50.95 (50.65 to 51.65): 569669S.
Ion 52.05 (51.75 to 52.75): 569669S.

2.92

2000

1000

0
Time--> 2.85   2.90   2.95   3.00

Abundance   Scan 865 (6.264 min): 20SVOC.D (-853) (-)

Re50

105
120
39 51 58 65 77 84 91 98 113 146

m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150

Abundance   Scan 872 (6.314 min): 569669S.D

Raw50

105
44
78 120

m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150

Abundance   Scan 872 (6.314 min): 569669S.D (-853) (-)

Sub50

105
120
78

m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150

#23
1,2,4-Trimethylbenzene
Concen: 0.01 ug m
RT: 6.31 min   Scan# 872
Delta R.T.   0.06 min
Lab File: 569669S.D
Acq: 28 Jun 2008   12:05 am

Tgt Ion:105	Resp:		3039
Ion	Ratio	Lower	Upper
105	100		
120	0.0	42.9	64.3#
77	0.0	11.9	17.9#

Abundance Ion 105.05 (104.75 to 105.75): 569669
1500 Ion 120.05 (119.75 to 120.75): 569669
Ion 76.95 (76.65 to 77.65): 569669S.

6.31

1000

500

0
Time--> 6.25   6.30   6.35   6.40

#27

Undecane
Concen: 0.06 ug m
RT: 7.09 min   Scan# 981
Delta R.T.   0.06 min
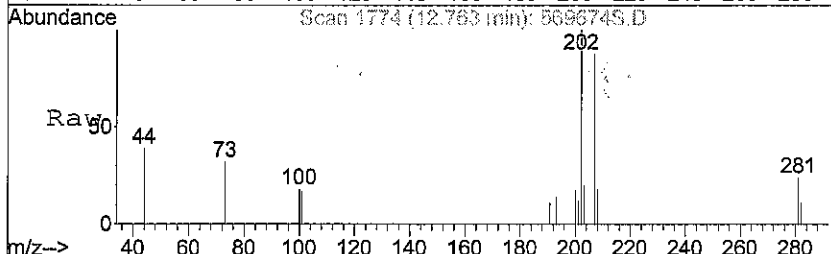Lab File: 569669S.D
Acq: 28 Jun 2008   12:05 am

Tgt Ion: 57 Resp: 11507

Ion	Ratio	Lower	Upper
57	100		
43	0.0	66.6	100.0#
71	0.0	44.7	67.1#

#28

Naphthalene
Concen: 0.26 ug m
RT: 7.87 min   Scan# 1090
Delta R.T.   0.03 min
Lab File: 569669S.D
Acq: 28 Jun 2008   12:05 am

Tgt Ion:128 Resp: 117679

Ion	Ratio	Lower	Upper
128	100		
102	5.9	10.1	15.1#
127	8.5	14.2	21.4#

569669S.D   A4-8.M   Wed Jul 02 10:42:33 2008   RPT1   Page 4

#30
2-Methyl naphthalene
Concen: 0.03 ug m
RT: 8.66 min   Scan# 1200
Delta R.T.   0.06 min
Lab File: 569669S.D
Acq: 28 Jun 2008   12:05 am

Tgt Ion:142 Resp: 10606

Ion	Ratio	Lower	Upper
142	100		
141	0.0	69.2	103.8#
115	0.0	29.8	44.8#

#33
Acenaphthene
Concen: 0.05 ug m
RT: 9.81 min   Scan# 1361
Delta R.T.   0.02 min
Lab File: 569669S.D
Acq: 28 Jun 2008   12:05 am

Tgt Ion:153 Resp: 16896

Ion	Ratio	Lower	Upper
153	100		
154	86.0	78.6	118.0
152	43.8	42.4	63.6

Top-left panel group:

Abundance — Scan 1438 (10.361 min): 20SVOC.D (-1428) (-)

Re 50 / 0

166

39 50 60 69 82 99 115 126 139 149

m/z--> 40 60 80 100 120 140 160 180 200

Abundance — Scan 1442 (10.389 min): 569669S.D

Raw 50 / 0

166

44 69 82 207

m/z--> 40 60 80 100 120 140 160 180 200

Abundance — Scan 1442 (10.389 min): 569669S.D (-1427) (-)

Sub 50 / 0

166

44 69 82 207

m/z--> 40 60 80 100 120 140 160 180 200

Top-right panel:

#34
Fluorene
Concen: 0.02 ug m
RT: 10.39 min   Scan# 1442
Delta R.T.   0.03 min
Lab File: 569669S.D
Acq: 28 Jun 2008   12:05 am

Tgt Ion:166	Resp:		7417
Ion	Ratio	Lower	Upper
166	100		
165	68.2	73.4	110.2#
82	17.5	13.8	20.8

Abundance Ion 166.00 (165.70 to 166.70): 569669
Ion 166.00 (164.70 to 165.70): 569669
Ion 82.40 (82.10 to 83.10): 569669S.

3000

2000

1000

0

10.39

Time--> 10.30 10.35 10.40 10.45 10.50

Bottom-left panel group:

Abundance — Scan 2244 (12.487 min): PAH.D (-)

Re 50 / 0

178

39 63 76 99 125 139 152

m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Abundance — Scan 1592 (11.462 min): 569669S.D

Raw 50 / 0

178

44 76 89 152 207 281

m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Abundance — Scan 1592 (11.462 min): 569669S.D (-1578) (-)

Sub 50 / 0

178

40 76 89 152 281

m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Bottom-right panel:

#35
Phenanthrene
Concen: 0.03 ug m
RT: 11.46 min   Scan# 1592
Delta R.T.   0.02 min
Lab File: 569669S.D
Acq: 28 Jun 2008   12:05 am

Tgt Ion:178	Resp:		14595
Ion	Ratio	Lower	Upper
178	100		
152	8.6	7.0	10.6
179	14.3	12.9	19.3

Abundance Ion 178.05 (177.75 to 178.75): 569669
Ion 152.00 (151.70 to 152.70): 569669
Ion 179.05 (178.75 to 179.75): 569669

6000

4000

2000

0

11.46

Time--> 11.40 11.45 11.50

Top right panel (#36):

#36
Anthracene
Concen: 0.02 ug m
RT: 11.52 min Scan# 1600
Delta R.T.   0.01 min
Lab File: 569669S.D
Acq: 28 Jun 2008 12:05 am

Tgt Ion:178 Resp: 10365

Ion	Ratio	Lower	Upper
178	100		
152	1.6	6.2	9.4#
179	10.7	12.1	18.1#

Bottom right panel (#37):

#37
Fluoranthene
Concen: 0.02 ug m
RT: 12.76 min Scan# 1773
Delta R.T.   -0.00 min
Lab File: 569669S.D
Acq: 28 Jun 2008 12:05 am

Tgt Ion:202 Resp: 6811

Ion	Ratio	Lower	Upper
202	100		
101	9.0	10.0	15.0#
203	14.3	13.8	20.6

Scan 2684 (14.134 min): PAH.D (-)

Scan 1808 (13.006 min): 569669S.D

Scan 1808 (13.006 min): 569669S.D (-1799) (-)

#38
Pyrene
Concen: 0.01 ug m
RT: 13.01 min   Scan# 1808
Delta R.T.   -0.01 min
Lab File: 569669S.D
Acq: 28 Jun 2008   12:05 am

Tgt Ion:202	Resp:		6016
Ion	Ratio	Lower	Upper
202	100		
101	19.4	12.5	18.7#
203	0.0	12.5	18.7#

Ion 202.00 (201.70 to 202.70): 569669
Ion 101.05 (100.75 to 101.75): 569669
Ion 203.00 (202.70 to 203.70): 569669

```
Data File : C:\MSDCHEM\#8\74768EJF\569670S.D          Vial: 21
Acq On    : 27 Jun 2008   7:26 pm                     Operator: DC/DD
Sample    :                                           Inst    : Instrumen
Misc      :                                           Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:48 2008        Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8
```

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds						Qvalue
1) Methyl t-butyl ether	2.30	73	0	N.D.		
2) 1,1-Dichloroethene	2.10	61	0	N.D.		
3) trans-1,2-Dichloroethene	2.30	61	0	N.D.		
4) 1,1-Dichloroethane	2.37	63	0	N.D.		
5) cis-1,2-Dichloroethene	2.52	61	0	N.D.		
6) Chloroform	2.64	83	0	N.D.		
7) 1,1,1-Trichloroethane	2.79	97	0	N.D.		
8) 1,2-Dichloroethane	2.87	62	0	N.D.		
9) Benzene	2.93	78	10583m	0.04	ug	#
10) Carbon tetrachloride	2.92	117	0	N.D.		
11) Trichloroethene	3.28	95	0	N.D.		
12) 1,1,2- Trichloroethane	4.13	97	0	N.D.		
13) Toluene	4.00	91	10330m	0.04	ug	#
14) Octane	4.29	43	0	N.D.		
15) Tetrachloroethene	4.40	166	0	N.D.		
16) Chlorobenzene	4.86	112	0	N.D.		
17) 1,1,1,2- Tetrachloroethane	4.93	131	0	N.D.		
18) Ethylbenzene	4.99	91	0	N.D.		
19) m,p-Xylene	5.08	91	0	N.D.		
20) o-Xylene	5.32	91	0	N.D.		
21) 1,1,2,2-Tetrachloroethane	5.60	83	0	N.D.		
22) 1,3,5-Trimethylbenzene	6.03	105	0	N.D.		
23) 1,2,4-Trimethylbenzene	6.28	105	2227m	0.01	ug	#
24) 1,3-Dichlorobenzene	6.39	146	0	N.D.		
25) 1,4-Dichlorobenzene	6.47	146	0	N.D.		
26) 1,2-Dichlorobenzene	6.63	146	0	N.D.		
27) Undecane	7.03	57	0	N.D.		
28) Naphthalene	7.85	128	98449m	0.21	ug	#
29) Tridecane	8.42	57	0	N.D.		
30) 2-Methyl naphthalene	8.60	142	89470m	0.26	ug	#
31) Acenaphthylene	9.60	152	25623m	0.04	ug	#
32) Pentadecane	0.00	57	0	N.D. d		
33) Acenaphthene	9.78	153	1044784m	2.97	ug	#
34) Fluorene	10.35	166	410362m	0.96	ug	#
35) Phenanthrene	11.43	178	460326m	1.08	ug	#
36) Anthracene	11.48	178	193300m	0.45	ug	#
37) Fluoranthene	12.75	202	166086m	0.39	ug	#
38) Pyrene	13.01	202	94094m	0.22	ug	#

Data File : C:\MSDCHEM\#8\74768EJF\569670S.D   Vial: 21
Acq On   : 27 Jun 2008   7:26 pm   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 15:01 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

Scan 396 (2.911 min): 20SVOC.D (-384) (-)

Scan 399 (2.932 min): 569670S.D

Scan 399 (2.932 min): 569670S.D (-387) (-)

#9
Benzene
Concen: 0.04 ug m
RT: 2.93 min   Scan# 399
Delta R.T.   0.01 min
Lab File: 569670S.D
Acq: 27 Jun 2008   7:26 pm

Tgt Ion: 78 Resp: 10583
Ion   Ratio   Lower   Upper
 78   100
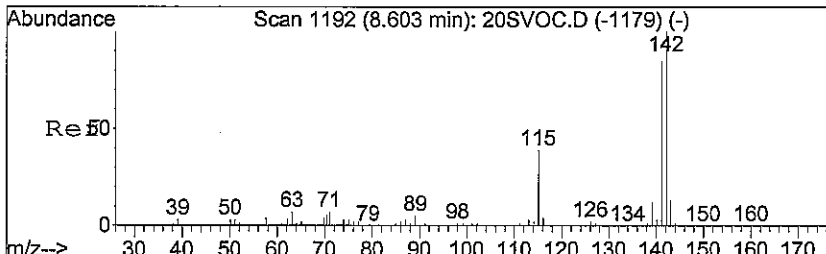 51   13.7   13.8   20.6#
 52   13.8   13.7   20.5

Abundance Ion 77.95 (77.65 to 78.65): 569670S.
Ion 50.95 (50.65 to 51.65): 569670S.
Ion 52.05 (51.75 to 52.75): 569670S.

Scan 546 (3.983 min): 20SVOC.D (-538) (-)

Scan 549 (4.004 min): 569670S.D

Scan 549 (4.004 min): 569670S.D (-535) (-)

#13
Toluene
Concen: 0.04 ug m
RT: 4.00 min   Scan# 549
Delta R.T.   0.02 min
Lab File: 569670S.D
Acq: 27 Jun 2008   7:26 pm

Tgt Ion: 91 Resp: 10330
Ion   Ratio   Lower   Upper
 91   100
 65   8.2   11.2   16.8#
 92   55.0   52.9   79.3

Abundance Ion 90.95 (90.65 to 91.65): 569670S.
Ion 65.05 (64.75 to 65.75): 569670S.
Ion 92.05 (91.75 to 92.75): 569670S.

#23
1,2,4-Trimethylbenzene
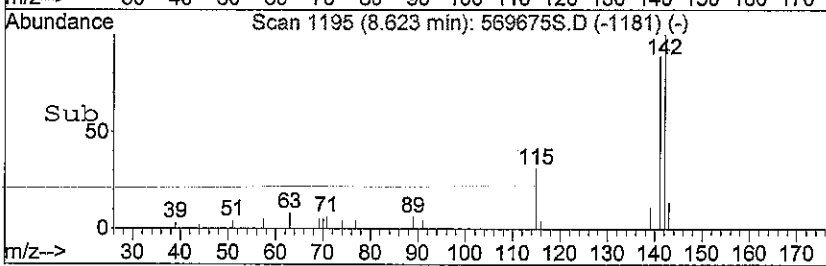Concen: 0.01 ug m
RT: 6.28 min   Scan# 867
Delta R.T.   0.02 min
Lab File: 569670S.D
Acq: 27 Jun 2008   7:26 pm

Tgt	Ion:105	Resp:	2227
Ion	Ratio	Lower	Upper
105	100		
120	31.3	42.9	64.3#
77	12.8	11.9	17.9

#28
Naphthalene
Concen: 0.21 ug m
RT: 7.85 min   Scan# 1087
Delta R.T.   0.01 min
Lab File: 569670S.D
Acq: 27 Jun 2008   7:26 pm

Tgt	Ion:128	Resp:	98449
Ion	Ratio	Lower	Upper
128	100		
102	8.2	10.1	15.1#
127	12.3	14.2	21.4#

#30
2-Methyl naphthalene
Concen: 0.26 ug m
RT: 8.60 min   Scan# 1192
Delta R.T.   -0.00 min
Lab File: 569670S.D
Acq: 27 Jun 2008   7:26 pm
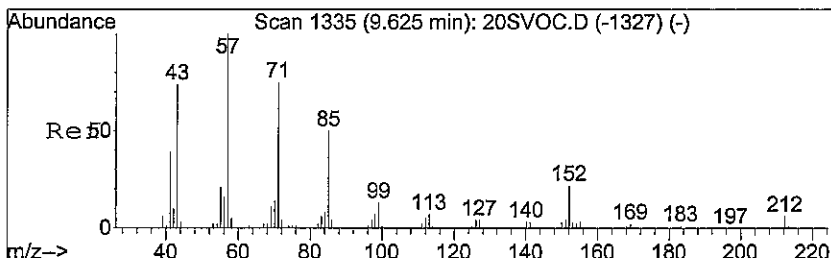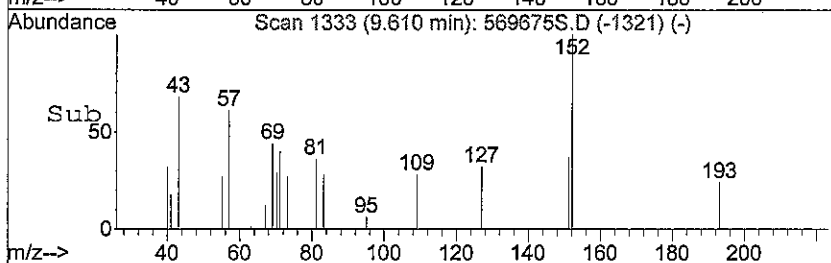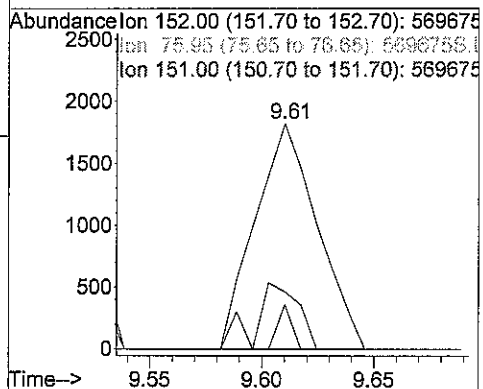
Tgt Ion:142 Resp: 89470

Ion	Ratio	Lower	Upper
142	100		
141	82.0	69.2	103.8
115	32.7	29.8	44.8

#31
Acenaphthylene
Concen: 0.04 ug m
RT: 9.60 min   Scan# 1331
Delta R.T.   -0.01 min
Lab File: 569670S.D
Acq: 27 Jun 2008   7:26 pm

Tgt Ion:152 Resp: 25623

Ion	Ratio	Lower	Upper
152	100		
76	21.6	12.6	18.8#
151	21.6	21.7	32.5#

#33
Acenaphthene
Concen: 2.97 ug m
RT: 9.78 min   Scan# 1357
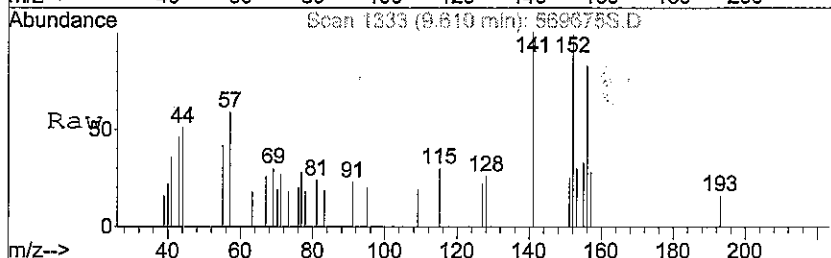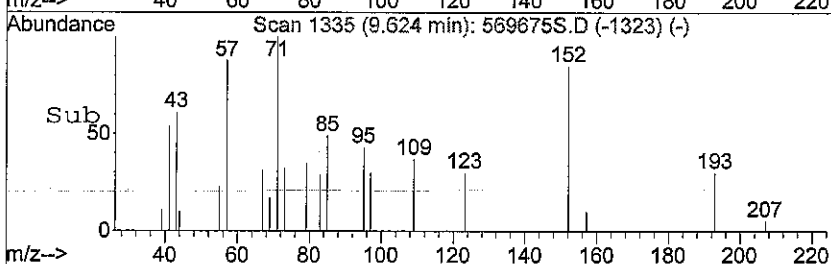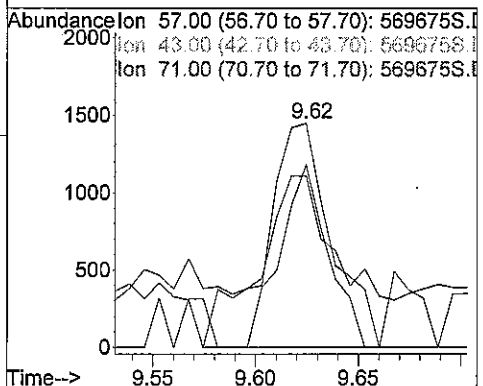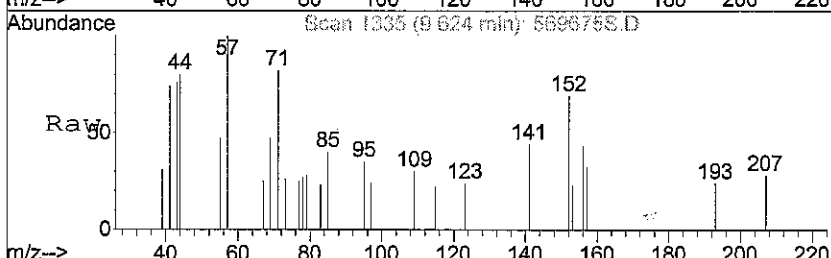Delta R.T.   −0.01 min
Lab File: 569670S.D
Acq: 27 Jun 2008   7:26 pm

Tgt Ion:153 Resp: 1044784

Ion	Ratio	Lower	Upper
153	100		
154	94.5	78.6	118.0
152	46.0	42.4	63.6

#34
Fluorene
Concen: 0.96 ug m
RT: 10.35 min   Scan# 1437
Delta R.T.   −0.01 min
Lab File: 569670S.D
Acq: 27 Jun 2008   7:26 pm

Tgt Ion:166 Resp: 410362

Ion	Ratio	Lower	Upper
166	100		
165	90.4	73.4	110.2
82	23.9	13.8	20.8#

#35
Phenanthrene
Concen: 1.08 ug m
RT: 11.43 min   Scan# 1587
Delta R.T.   -0.01 min
Lab File: 569670S.D
Acq: 27 Jun 2008   7:26 pm

Tgt Ion:178 Resp: 460326

Ion	Ratio	Lower	Upper
178	100		
152	9.8	7.0	10.6
179	15.9	12.9	19.3

#36
Anthracene
Concen: 0.45 ug m
RT: 11.48 min   Scan# 1595
Delta R.T.   -0.02 min
Lab File: 569670S.D
Acq: 27 Jun 2008   7:26 pm

Tgt Ion:178 Resp: 193300

Ion	Ratio	Lower	Upper
178	100		
152	7.0	6.2	9.4
179	13.6	12.1	18.1

#37
Fluoranthene
Concen: 0.39 ug m
RT: 12.75 min Scan# 1772
Delta R.T. -0.01 min
Lab File: 569670S.D
Acq: 27 Jun 2008 7:26 pm

Tgt Ion:202 Resp: 166086

Ion	Ratio	Lower	Upper
202	100		
101	13.2	10.0	15.0
203	15.2	13.8	20.6

#38
Pyrene
Concen: 0.22 ug m
RT: 13.01 min Scan# 1808
Delta R.T. -0.01 min
Lab File: 569670S.D
Acq: 27 Jun 2008 7:26 pm

Tgt Ion:202 Resp: 94094

Ion	Ratio	Lower	Upper
202	100		
101	17.0	12.5	18.7
203	21.0	12.5	18.7#

Data File : C:\MSDCHEM\#8\74768EJF\569671S.D   Vial: 25
Acq On   : 27 Jun 2008   9:18 pm   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:49 2008   Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

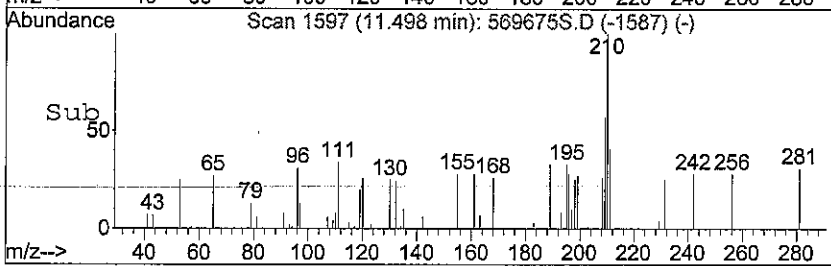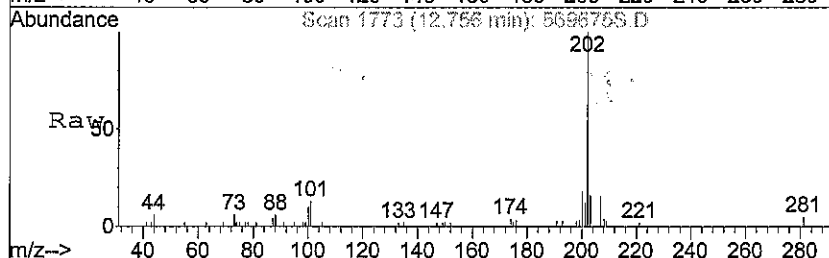| Target Compounds						Qvalue
1) Methyl t-butyl ether	2.32	73	513m	0.00	ug	#
2) 1,1-Dichloroethene	2.10	61	0	N.D.		
3) trans-1,2-Dichloroethene	2.30	61	0	N.D.		
4) 1,1-Dichloroethane	2.37	63	0	N.D.		
5) cis-1,2-Dichloroethene	2.52	61	0	N.D.		
6) Chloroform	2.64	83	0	N.D.		
7) 1,1,1-Trichloroethane	2.79	97	0	N.D.		
8) 1,2-Dichloroethane	2.87	62	0	N.D.		
9) Benzene	2.93	78	13562m	0.05	ug	#
10) Carbon tetrachloride	2.92	117	0	N.D.		
11) Trichloroethene	3.28	95	0	N.D.		
12) 1,1,2- Trichloroethane	4.13	97	0	N.D.		
13) Toluene	4.01	91	22309m	0.08	ug	#
14) Octane	4.29	43	0	N.D.		
15) Tetrachloroethene	4.40	166	0	N.D.		
16) Chlorobenzene	4.86	112	0	N.D.		
17) 1,1,1,2- Tetrachloroethane	4.93	131	0	N.D.		
18) Ethylbenzene	4.99	91	0	N.D.		
19) m,p-Xylene	5.08	91	0	N.D.		
20) o-Xylene	5.32	91	0	N.D.		
21) 1,1,2,2-Tetrachloroethane	5.60	83	0	N.D.		
22) 1,3,5-Trimethylbenzene	6.03	105	0	N.D.		
23) 1,2,4-Trimethylbenzene	6.32	105	2875m	0.01	ug	#
24) 1,3-Dichlorobenzene	6.39	146	0	N.D.		
25) 1,4-Dichlorobenzene	6.47	146	0	N.D.		
26) 1,2-Dichlorobenzene	6.63	146	0	N.D.		
27) Undecane	7.03	57	0	N.D.		
28) Naphthalene	7.88	128	16513m	0.04	ug	#
29) Tridecane	8.44	57	1855m	0.01	ug	#
30) 2-Methyl naphthalene	8.63	142	7044m	0.02	ug	#
31) Acenaphthylene	9.62	152	8562m	0.01	ug	#
32) Pentadecane	9.64	57	3881m	0.02	ug	#
33) Acenaphthene	9.80	153	15761m	0.04	ug	#
34) Fluorene	10.38	166	21028m	0.05	ug	#
35) Phenanthrene	11.44	178	79594m	0.19	ug	#
36) Anthracene	11.50	178	24558m	0.06	ug	#
37) Fluoranthene	12.76	202	41663m	0.10	ug	#
38) Pyrene	13.01	202	27403m	0.06	ug	#

Data File : C:\MSDCHEM\#8\74768EJF\569671S.D   Vial: 25
Acq On   : 27 Jun 2008   9:18 pm   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

Scan 306 (2.267 min): 20SVOC.D (-301) (-)

Scan 314 (2.324 min): 569671S.D

Scan 314 (2.324 min): 569671S.D (-299) (-)

#1
Methyl t-butyl ether
Concen: 0.00 ug m
RT: 2.32 min   Scan# 314
Delta R.T.   0.03 min
Lab File: 569671S.D
Acq: 27 Jun 2008   9:18 pm

Tgt Ion: 73	Resp:		513
Ion	Ratio	Lower	Upper
73	100		
57	0.0	17.9	26.9#
41	198.2	16.6	24.8#

Abundance Ion 73.00 (72.70 to 73.70): 569671S.
Ion 57.00 (56.70 to 57.70): 569671S.
Ion 41.05 (40.75 to 41.75): 569671S.

Scan 396 (2.911 min): 20SVOC.D (-384) (-)

Scan 398 (2.932 min): 569671S.D

Scan 399 (2.932 min): 569671S.D (-387) (-)

#9
Benzene
Concen: 0.05 ug m
RT: 2.93 min   Scan# 399
Delta R.T.   0.01 min
Lab File: 569671S.D
Acq: 27 Jun 2008   9:18 pm

Tgt Ion: 78	Resp:		13562
Ion	Ratio	Lower	Upper
78	100		
51	16.0	13.8	20.6
52	13.3	13.7	20.5#

Abundance Ion 77.95 (77.65 to 78.65): 569671S.
Ion 50.95 (50.65 to 51.65): 569671S.
Ion 52.05 (51.75 to 52.75): 569671S.

569671S.D   A4-8.M   Wed Jul 02 10:42:35 2008   RPT1   Page 3

#13
Toluene
Concen: 0.08 ug m
RT: 4.01 min   Scan# 550
Delta R.T.   0.03 min
Lab File: 569671S.D
Acq: 27 Jun 2008   9:18 pm

Tgt Ion: 91 Resp: 22309
Ion   Ratio   Lower   Upper
 91   100
 65   10.0   11.2   16.8#
 92   50.8   52.9   79.3#

#23
1,2,4-Trimethylbenzene
Concen: 0.01 ug m
RT: 6.32 min   Scan# 873
Delta R.T.   0.06 min
Lab File: 569671S.D
Acq: 27 Jun 2008   9:18 pm

Tgt Ion:105 Resp: 2875
Ion   Ratio   Lower   Upper
105   100
120   0.0   42.9   64.3#
 77   0.0   11.9   17.9#

#28
Naphthalene
Concen: 0.04 ug m
RT: 7.88 min   Scan# 1091
Delta R.T.   0.04 min
Lab File: 569671S.D
Acq: 27 Jun 2008   9:18 pm

Tgt Ion:128 Resp: 16513

Ion	Ratio	Lower	Upper
128	100		
102	4.4	10.1	15.1#
127	8.2	14.2	21.4#

#29
Tridecane
Concen: 0.01 ug m
RT: 8.44 min   Scan# 1169
Delta R.T.   0.02 min
Lab File: 569671S.D
Acq: 27 Jun 2008   9:18 pm

Tgt Ion: 57 Resp: 1855

Ion	Ratio	Lower	Upper
57	100		
43	97.3	61.8	92.8#
71	29.1	54.4	81.6#

Scan 1192 (8.603 min): 20SVOC.D (-1179) (-)

Scan 1196 (8.630 min): 569671S.D

Scan 1196 (8.630 min): 569671S.D (-1181) (-)

#30
2-Methyl naphthalene
Concen: 0.02 ug m
RT: 8.63 min   Scan# 1196
Delta R.T.   0.03 min
Lab File: 569671S.D
Acq: 27 Jun 2008   9:18 pm

Tgt Ion:142 Resp: 7044

Ion	Ratio	Lower	Upper
142	100		
141	70.7	69.2	103.8
115	29.6	29.8	44.8#

Abundance Ion 141.95 (141.65 to 142.65): 569671
Ion 140.95 (140.65 to 141.65): 569671
Ion 114.95 (114.65 to 115.65): 569671

Scan 1332 (9.604 min): 20SVOC.D (-1319) (-)

Scan 1334 (9.617 min): 569671S.D

Scan 1334 (9.617 min): 569671S.D (-1321) (-)

#31
Acenaphthylene
Concen: 0.01 ug m
RT: 9.62 min   Scan# 1334
Delta R.T.   0.02 min
Lab File: 569671S.D
Acq: 27 Jun 2008   9:18 pm

Tgt Ion:152 Resp: 8562

Ion	Ratio	Lower	Upper
152	100		
76	10.2	12.6	18.8#
151	20.6	21.7	32.5#

Abundance Ion 152.00 (151.70 to 152.70): 569671
Ion 75.95 (75.65 to 76.65): 569671S.
Ion 151.00 (150.70 to 151.70): 569671

Scan 1335 (9.625 min): 20SVOC.D (-1327) (-)
Abundance / Re 50
43 57 71 85 99 113 127 140 152 169 183 197 212
m/z--> 40 60 80 100 120 140 160 180 200 220

Scan 1337 (9.639 min): 569671S.D
Abundance / Raw 50
41 57 69 83 95 109 123 152 207
m/z--> 40 60 80 100 120 140 160 180 200 220

Scan 1337 (9.639 min): 569671S.D (-1323) (-)
Abundance / Sub 50
41 57 71 85 95 111 123 152
m/z--> 40 60 80 100 120 140 160 180 200 220

#32
Pentadecane
Concen: 0.02 ug m
RT: 9.64 min   Scan# 1337
Delta R.T.   0.02 min
Lab File: 569671S.D
Acq: 27 Jun 2008   9:18 pm

Tgt Ion: 57	Resp:		3881
Ion	Ratio	Lower	Upper
57	100		
43	22.5	57.7	86.5#
71	31.0	58.2	87.2#

Abundance Ion 57.00 (56.70 to 57.70): 569671S.
Ion 43.00 (42.70 to 43.70): 569671S.
Ion 71.00 (70.70 to 71.70): 569671S.
1000
9.64
500
0
Time--> 9.55 9.60 9.65 9.70

Scan 1358 (9.789 min): 20SVOC.D (-1347) (-)
Abundance / Re 50
153
39 51 63 76 87 102 113 126 139 165
m/z--> 40 60 80 100 120 140 160 180 200

Scan 1359 (9.796 min): 569671S.D
Abundance / Raw 50
154
44 63 76 91 109 126 137 207
m/z--> 40 60 80 100 120 140 160 180 200

Scan 1359 (9.796 min): 569671S.D (-1347) (-)
Abundance / Sub 50
154
39 51 63 76 91 115 126 137 207
m/z--> 40 60 80 100 120 140 160 180 200

#33
Acenaphthene
Concen: 0.04 ug m
RT: 9.80 min   Scan# 1359
Delta R.T.   0.01 min
Lab File: 569671S.D
Acq: 27 Jun 2008   9:18 pm
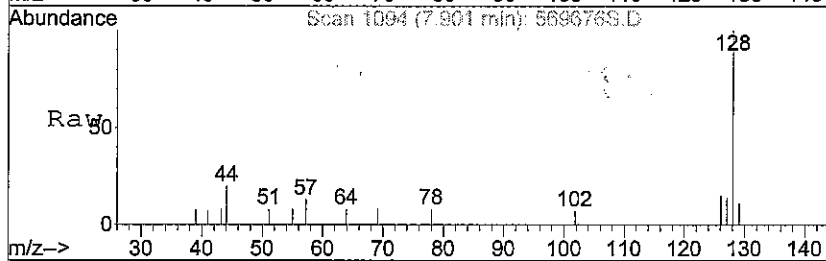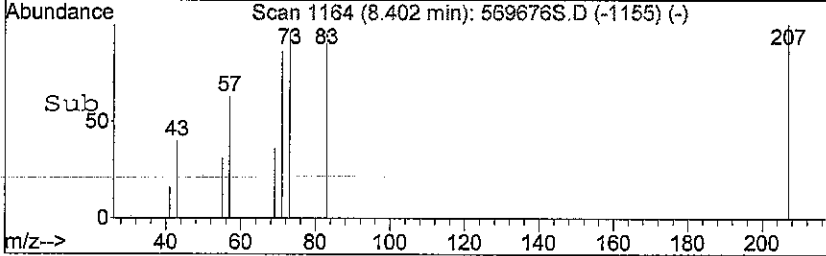
Tgt Ion:153	Resp:		15761
Ion	Ratio	Lower	Upper
153	100		
154	93.6	78.6	118.0
152	49.5	42.4	63.6

Abundance Ion 153.00 (152.70 to 153.70): 569671
Ion 153.95 (153.65 to 154.65): 569671
Ion 152.00 (151.70 to 152.70): 569671
10000
8000
9.80
6000
4000
2000
0
Time--> 9.70 9.75 9.80 9.85 9.90

#34
Fluorene
Concen: 0.05 ug m
RT: 10.38 min   Scan# 1440
Delta R.T.   0.01 min
Lab File: 569671S.D
Acq: 27 Jun 2008   9:18 pm

Tgt Ion:166 Resp: 21028
Ion   Ratio   Lower   Upper
166   100
165   81.3   73.4   110.2
82   30.7   13.8   20.8#

#35
Phenanthrene
Concen: 0.19 ug m
RT: 11.44 min   Scan# 1589
Delta R.T.   -0.00 min
Lab File: 569671S.D
Acq: 27 Jun 2008   9:18 pm

Tgt Ion:178 Resp: 79594
Ion   Ratio   Lower   Upper
178   100
152   10.6   7.0   10.6#
179   15.4   12.9   19.3

#36
Anthracene
Concen: 0.06 ug m
RT: 11.50 min   Scan# 1598
Delta R.T.   −0.00 min
Lab File: 569671S.D
Acq: 27 Jun 2008   9:18 pm

Tgt Ion:178 Resp: 24558

Ion	Ratio	Lower	Upper
178	100		
152	6.6	6.2	9.4
179	10.1	12.1	18.1#

#37
Fluoranthene
Concen: 0.10 ug m
RT: 12.76 min   Scan# 1773
Delta R.T.   −0.00 min
Lab File: 569671S.D
Acq: 27 Jun 2008   9:18 pm

Tgt Ion:202 Resp: 41663

Ion	Ratio	Lower	Upper
202	100		
101	14.2	10.0	15.0
203	16.6	13.8	20.6

Abundance   Scan 2684 (14.134 min): PAH.D (-)

202

Ref 50

0

m/z-->   40   60   80   100   120   140   160   180   200   220   240   260   280

75   88   101   150   174   281

Abundance   Scan 1808 (13.006 min): 569671S.D

202

Raw 50

0

m/z-->   40   60   80   100   120   140   160   180   200   220   240   260   280

44   73   88   101   133 147   230   281

Abundance   Scan 1808 (13.006 min): 569671S.D (-1799) (-)

202

Sub 50

0

m/z-->   40   60   80   100   120   140   160   180   200   220   240   260   280

73   88   101   133 149   230   282

#38
Pyrene
Concen: 0.06 ug m
RT: 13.01 min   Scan# 1808
Delta R.T.   -0.01 min
Lab File: 569671S.D
Acq: 27 Jun 2008   9:18 pm

Tgt Ion:202 Resp: 27403

Ion	Ratio	Lower	Upper
202	100		
101	17.9	12.5	18.7
203	19.2	12.5	18.7#

Abundance Ion 202.00 (201.70 to 202.70): 569671
Ion 101.05 (100.75 to 101.75): 569671
Ion 203.00 (202.70 to 203.70): 569671

13.01

10000

5000

0

Time-->   12.90   13.00   13.10   13.20

```
Data File : C:\MSDCHEM\#8\74768EJF\569672S.D          Vial: 17
Acq On    : 27 Jun 2008    5:34 pm                    Operator: DC/DD
Sample    :                                           Inst     : Instrumen
Misc      :                                           Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:49 2008        Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8
```

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds						Qvalue
1) Methyl t-butyl ether	2.31	73	1593m	0.01	ug	#
2) 1,1-Dichloroethene	2.10	61	0	N.D.		
3) trans-1,2-Dichloroethene	2.30	61	0	N.D.		
4) 1,1-Dichloroethane	2.37	63	0	N.D.		
5) cis-1,2-Dichloroethene	2.52	61	0	N.D.		
6) Chloroform	2.64	83	0	N.D.		
7) 1,1,1-Trichloroethane	2.79	97	0	N.D.		
8) 1,2-Dichloroethane	2.87	62	0	N.D.		
9) Benzene	2.92	78	7759m	0.03	ug	#
10) Carbon tetrachloride	2.92	117	0	N.D.		
11) Trichloroethene	3.28	95	0	N.D.		
12) 1,1,2- Trichloroethane	4.13	97	0	N.D.		
13) Toluene	3.98	91	0	N.D.		
14) Octane	4.29	43	0	N.D.		
15) Tetrachloroethene	4.40	166	0	N.D.		
16) Chlorobenzene	4.86	112	0	N.D.		
17) 1,1,1,2- Tetrachloroethane	4.93	131	0	N.D.		
18) Ethylbenzene	4.99	91	0	N.D.		
19) m,p-Xylene	5.08	91	0	N.D.		
20) o-Xylene	5.32	91	0	N.D.		
21) 1,1,2,2-Tetrachloroethane	5.60	83	0	N.D.		
22) 1,3,5-Trimethylbenzene	6.03	105	0	N.D.		
23) 1,2,4-Trimethylbenzene	6.26	105	0	N.D.		
24) 1,3-Dichlorobenzene	6.39	146	0	N.D.		
25) 1,4-Dichlorobenzene	6.47	146	0	N.D.		
26) 1,2-Dichlorobenzene	6.63	146	0	N.D.		
27) Undecane	7.03	57	0	N.D.		
28) Naphthalene	7.84	128	0	N.D.		
29) Tridecane	8.42	57	0	N.D.		
30) 2-Methyl naphthalene	8.65	142	9653m	0.03	ug	#
31) Acenaphthylene	9.60	152	0	N.D.		
32) Pentadecane	9.62	57	0	N.D.		
33) Acenaphthene	9.81	153	4306m	0.01	ug	#
34) Fluorene	10.40	166	4238m	0.01	ug	#
35) Phenanthrene	11.44	178	0	N.D.		
36) Anthracene	11.50	178	0	N.D.		
37) Fluoranthene	12.76	202	0	N.D.		
38) Pyrene	13.02	202	0	N.D.		

Data File : C:\MSDCHEM\#8\74768EJF\569672S.D   Vial: 17
Acq On   : 27 Jun 2008   5:34 pm   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update   : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

TIC: 569672S.D

#1
Methyl t-butyl ether
Concen: 0.01 ug m
RT: 2.31 min   Scan# 312
Delta R.T.   0.01 min
Lab File: 569672S.D
Acq: 27 Jun 2008   5:34 pm

Tgt Ion: 73 Resp: 1593
Ion Ratio   Lower   Upper
 73 100
 57   0.0   17.9   26.9#
 41   0.0   16.6   24.8#

#9
Benzene
Concen: 0.03 ug m
RT: 2.92 min   Scan# 398
Delta R.T.   -0.00 min
Lab File: 569672S.D
Acq: 27 Jun 2008   5:34 pm

Tgt Ion: 78 Resp: 7759
Ion Ratio   Lower   Upper
 78 100
 51   10.3   13.8   20.6#
 52   11.9   13.7   20.5#

#30
2-Methyl naphthalene
Concen: 0.03 ug m
RT: 8.65 min   Scan# 1199
Delta R.T.   0.05 min
Lab File: 569672S.D
Acq: 27 Jun 2008   5:34 pm

Tgt Ion:142 Resp: 9653

Ion	Ratio	Lower	Upper
142	100		
141	0.0	69.2	103.8#
115	0.0	29.8	44.8#

Abundance Ion 141.95 (141.65 to 142.65): 569672
Ion 140.95 (140.65 to 141.65): 569672
Ion 114.95 (114.65 to 115.65): 569672

#33
Acenaphthene
Concen: 0.01 ug m
RT: 9.81 min   Scan# 1361
Delta R.T.   0.02 min
Lab File: 569672S.D
Acq: 27 Jun 2008   5:34 pm

Tgt Ion:153 Resp: 4306

Ion	Ratio	Lower	Upper
153	100		
154	74.6	78.6	118.0#
152	42.9	42.4	63.6

Abundance Ion 153.00 (152.70 to 153.70): 569672
Ion 153.95 (153.65 to 154.65): 569672
Ion 152.00 (151.70 to 152.70): 569672

Scan 1438 (10.361 min): 20SVOC.D (-1428) (-)

Scan 1444 (10.404 min): 569672S.D

Scan 1444 (10.404 min): 569672S.D (-1427) (-)

#34
Fluorene
Concen: 0.01 ug m
RT: 10.40 min   Scan# 1444
Delta R.T.   0.04 min
Lab File: 569672S.D
Acq: 27 Jun 2008   5:34 pm

Tgt Ion:166 Resp: 4238

Ion	Ratio	Lower	Upper
166	100		
165	38.9	73.4	110.2#
82	3.1	13.8	20.8#

Abundance Ion 166.00 (165.70 to 166.70): 569672
Ion 165.00 (164.70 to 165.70): 569672
Ion 82.40 (82.10 to 83.10): 569672S.

```
Data File : C:\MSDCHEM\#8\74768EJF\569673S.D          Vial: 20
Acq On    : 27 Jun 2008    6:58 pm                    Operator: DC/DD
Sample    :                                           Inst    : Instrumen
Misc      :                                           Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:49 2008          Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8
```
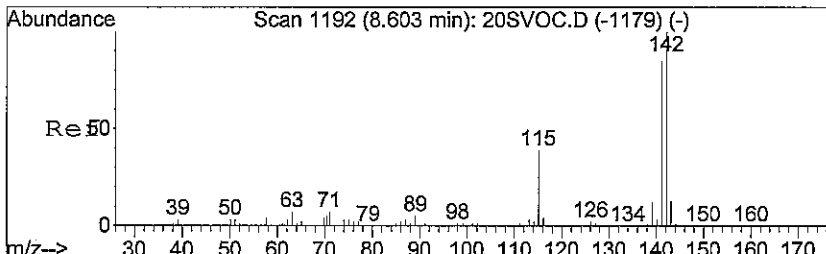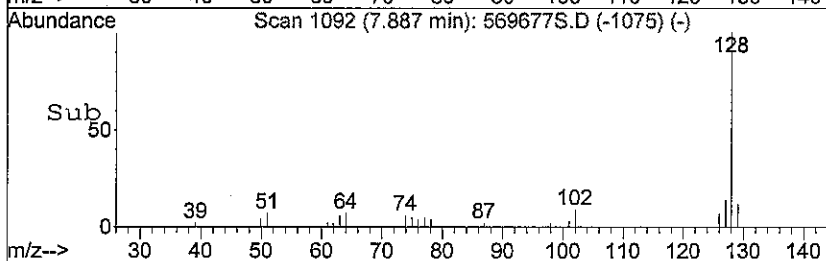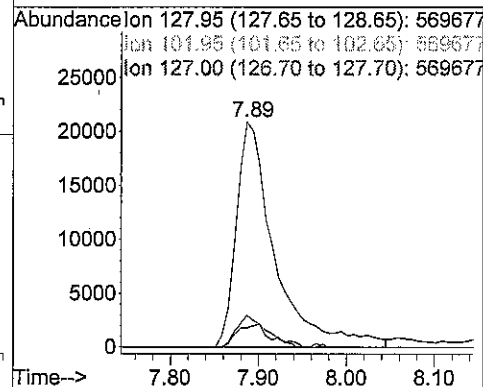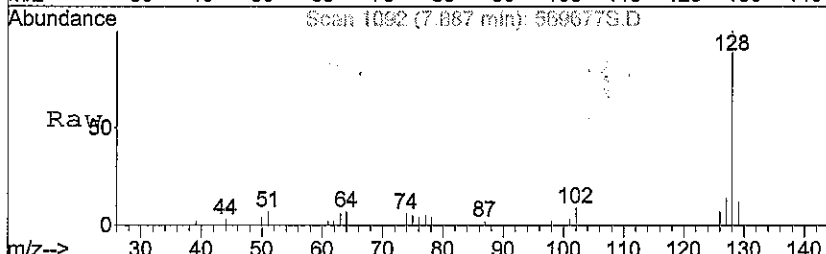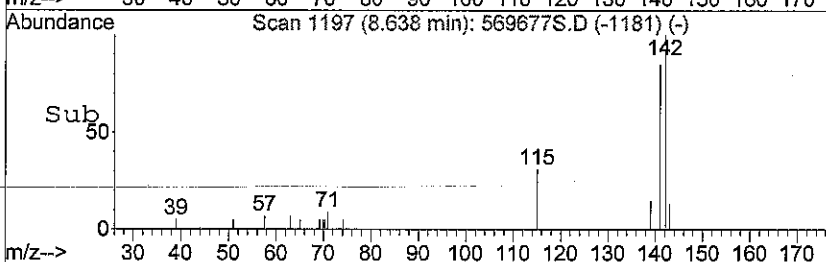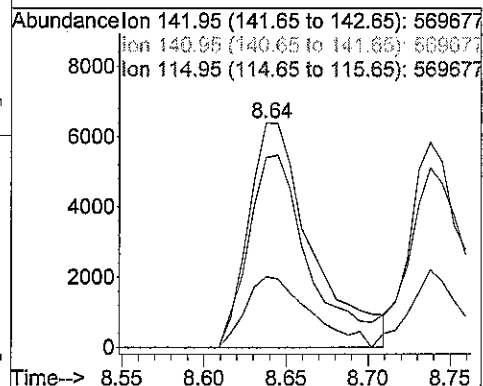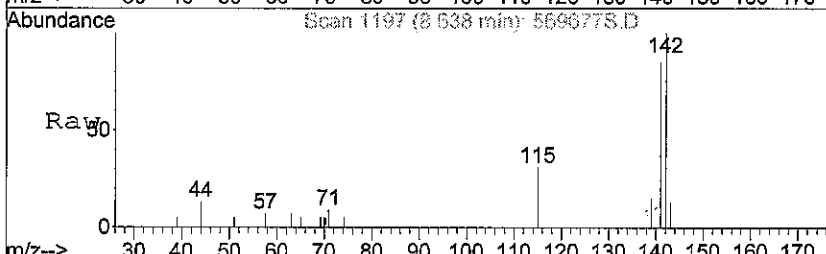
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

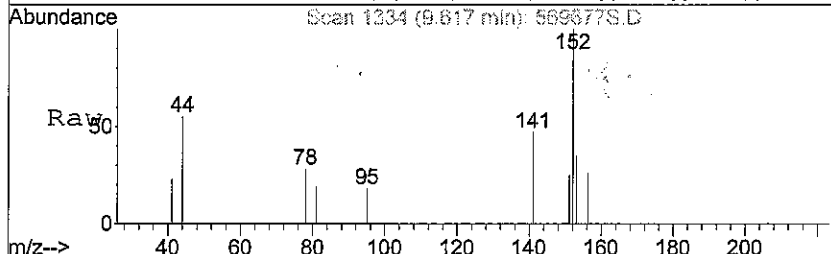| Target Compounds						Qvalue
1) Methyl t-butyl ether	2.33	73	1394m	0.01	ug	#
2) 1,1-Dichloroethene	2.10	61	0	N.D.		
3) trans-1,2-Dichloroethene	2.30	61	0	N.D.		
4) 1,1-Dichloroethane	2.37	63	0	N.D.		
5) cis-1,2-Dichloroethene	2.52	61	0	N.D.		
6) Chloroform	2.64	83	0	N.D.		
7) 1,1,1-Trichloroethane	2.79	97	0	N.D.		
8) 1,2-Dichloroethane	2.87	62	0	N.D.		
9) Benzene	2.92	78	14005m	0.05	ug	#
10) Carbon tetrachloride	2.92	117	0	N.D.		
11) Trichloroethene	3.28	95	0	N.D.		
12) 1,1,2- Trichloroethane	4.13	97	0	N.D.		
13) Toluene	3.98	91	0	N.D.		
14) Octane	4.29	43	0	N.D.		
15) Tetrachloroethene	4.40	166	0	N.D.		
16) Chlorobenzene	4.86	112	0	N.D.		
17) 1,1,1,2- Tetrachloroethane	4.93	131	0	N.D.		
18) Ethylbenzene	4.99	91	0	N.D.		
19) m,p-Xylene	5.08	91	0	N.D.		
20) o-Xylene	5.32	91	0	N.D.		
21) 1,1,2,2-Tetrachloroethane	5.60	83	0	N.D.		
22) 1,3,5-Trimethylbenzene	6.03	105	0	N.D.		
23) 1,2,4-Trimethylbenzene	6.26	105	0	N.D.		
24) 1,3-Dichlorobenzene	6.39	146	0	N.D.		
25) 1,4-Dichlorobenzene	6.47	146	0	N.D.		
26) 1,2-Dichlorobenzene	6.63	146	0	N.D.		
27) Undecane	7.03	57	0	N.D.		
28) Naphthalene	7.91	128	13978m	0.03	ug	#
29) Tridecane	8.42	57	0	N.D.		
30) 2-Methyl naphthalene	8.66	142	2287m	0.01	ug	#
31) Acenaphthylene	9.60	152	0	N.D.		
32) Pentadecane	9.62	57	0	N.D.		
33) Acenaphthene	9.82	153	5154m	0.01	ug	#
34) Fluorene	10.36	166	0	N.D.		
35) Phenanthrene	11.45	178	16457m	0.04	ug	#
36) Anthracene	11.53	178	9251m	0.02	ug	
37) Fluoranthene	12.76	202	16223m	0.04	ug	#
38) Pyrene	13.01	202	11653m	0.03	ug	#

Data File : C:\MSDCHEM\#8\74768EJF\569673S.D   Vial: 20
Acq On   : 27 Jun 2008   6:58 pm   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 15:02 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

#1
Methyl t-butyl ether
Concen: 0.01 ug m
RT: 2.33 min   Scan# 315
Delta R.T.   0.04 min
Lab File: 569673S.D
Acq: 27 Jun 2008   6:58 pm

Tgt Ion: 73 Resp: 1394

Ion	Ratio	Lower	Upper
73	100		
57	0.0	17.9	26.9#
41	66.1	16.6	24.8#

#9
Benzene
Concen: 0.05 ug m
RT: 2.92 min   Scan# 398
Delta R.T.   -0.00 min
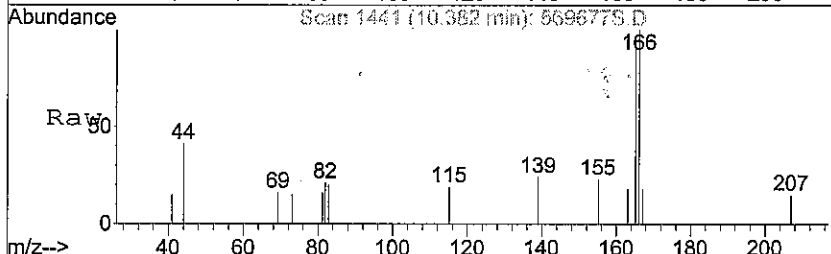Lab File: 569673S.D
Acq: 27 Jun 2008   6:58 pm

Tgt Ion: 78 Resp: 14005

Ion	Ratio	Lower	Upper
78	100		
51	13.1	13.8	20.6#
52	15.4	13.7	20.5

Scan 1086 (7.845 min): 20SVOC.D (-1056) (-)

Scan 1095 (7.908 min): 569673S.D

Scan 1095 (7.908 min): 569673S.D (-1075) (-)

#28
Naphthalene
Concen: 0.03 ug m
RT: 7.91 min   Scan# 1095
Delta R.T.   0.06 min
Lab File: 569673S.D
Acq: 27 Jun 2008   6:58 pm

Tgt Ion:128	Resp:	13978	
Ion	Ratio	Lower	Upper
128	100		
102	0.0	10.1	15.1#
127	0.0	14.2	21.4#

Abundance Ion 127.95 (127.65 to 128.65): 569673
Ion 101.95 (101.65 to 102.65): 569673
Ion 127.00 (126.70 to 127.70): 569673

Scan 1192 (8.603 min): 20SVOC.D (-1179) (-)

Scan 1200 (8.659 min): 569673S.D

Scan 1200 (8.659 min): 569673S.D (-1181) (-)

#30
2-Methyl naphthalene
Concen: 0.01 ug m
RT: 8.66 min   Scan# 1200
Delta R.T.   0.06 min
Lab File: 569673S.D
Acq: 27 Jun 2008   6:58 pm

Tgt Ion:142	Resp:	2287	
Ion	Ratio	Lower	Upper
142	100		
141	0.0	69.2	103.8#
115	0.0	29.8	44.8#

Abundance Ion 141.95 (141.65 to 142.65): 569673
Ion 140.95 (140.65 to 141.65): 569673
Ion 114.95 (114.65 to 115.65): 569673

Scan 1358 (9.789 min): 20SVOC.D (-1347) (-)

Scan 1362 (9.817 min): 569673S.D

Scan 1362 (9.817 min): 569673S.D (-1347) (-)

#33
Acenaphthene
Concen: 0.01 ug m
RT: 9.82 min   Scan# 1362
Delta R.T.   0.03 min
Lab File: 569673S.D
Acq: 27 Jun 2008   6:58 pm

Tgt Ion:153 Resp: 5154

Ion	Ratio	Lower	Upper
153	100		
154	97.2	78.6	118.0
152	46.4	42.4	63.6

Abundance Ion 153.00 (152.70 to 153.70): 569673
Ion 153.95 (163.65 to 154.65): 569673
Ion 152.00 (151.70 to 152.70): 569673

9.82

#35
Phenanthrene
Concen: 0.04 ug m
RT: 11.45 min   Scan# 1591
Delta R.T.   0.01 min
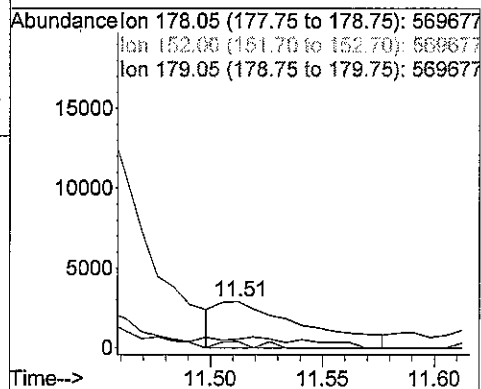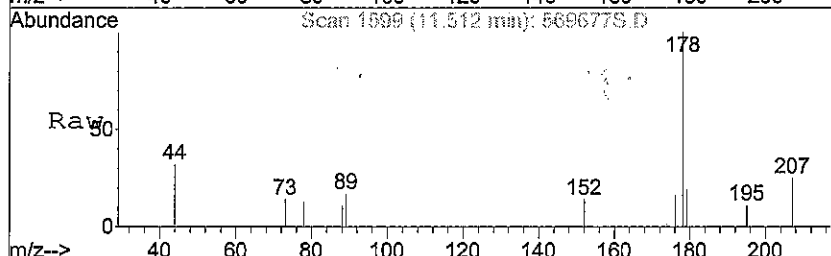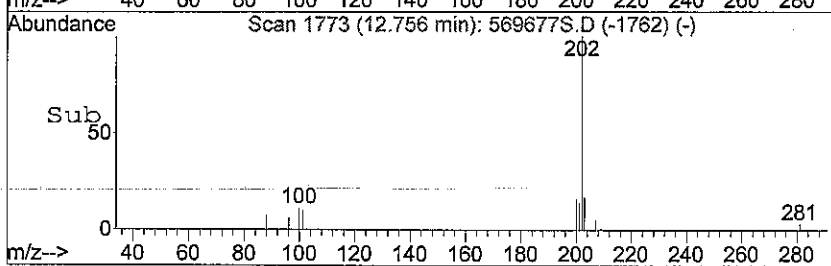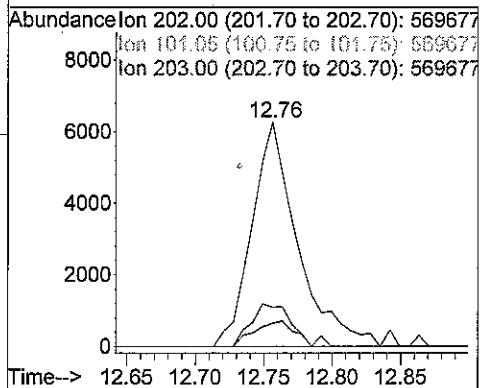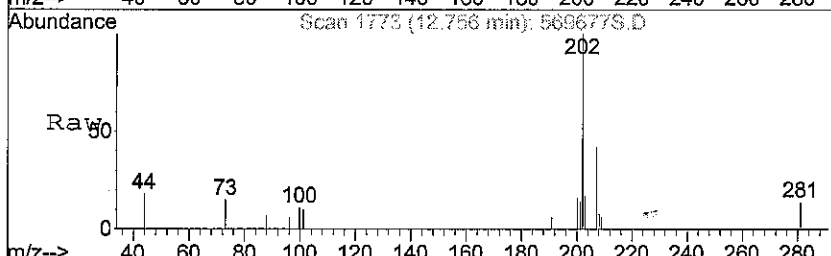Lab File: 569673S.D
Acq: 27 Jun 2008   6:58 pm

Tgt Ion:178 Resp: 16457

Ion	Ratio	Lower	Upper
178	100		
152	9.8	7.0	10.6
179	13.2	12.9	19.3

Abundance Ion 178.05 (177.75 to 178.75): 569673
Ion 152.00 (151.70 to 152.70): 569673
Ion 179.05 (178.75 to 179.75): 569673

11.45

Scan 2244 (12.487 min): PAH.D (-)

Scan 1591 (11.455 min): 569673S.D

Scan 1591 (11.455 min): 569673S.D (-1578) (-)

569673S.D   A4-8.M   Wed Jul 02 10:42:37 2008   RPT1   Page 5

#36

Anthracene
Concen: 0.02 ug m
RT: 11.53 min   Scan# 1602
Delta R.T.   0.03 min
Lab File: 569673S.D
Acq: 27 Jun 2008   6:58 pm

Tgt Ion:178 Resp: 9251

Ion	Ratio	Lower	Upper
178	100		
152	0.0	6.2	9.4#
179	8.4	12.1	18.1#

#37

Fluoranthene
Concen: 0.04 ug m
RT: 12.76 min   Scan# 1773
Delta R.T.   -0.00 min
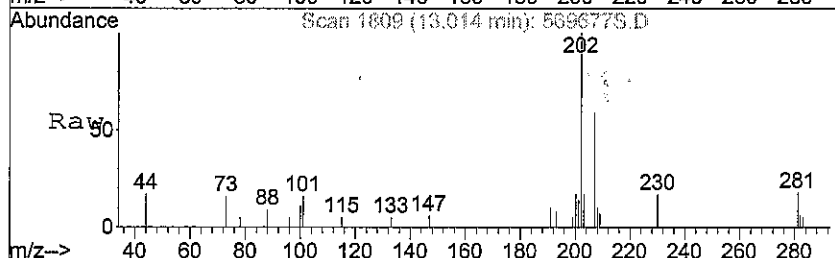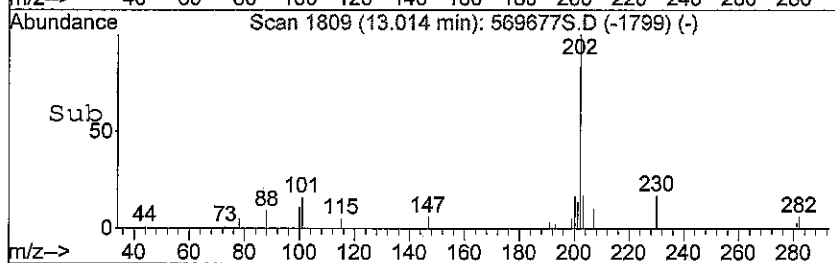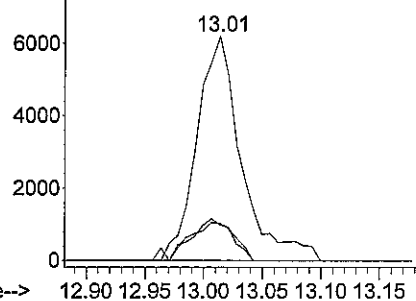Lab File: 569673S.D
Acq: 27 Jun 2008   6:58 pm

Tgt Ion:202 Resp: 16223

Ion	Ratio	Lower	Upper
202	100		
101	11.3	10.0	15.0
203	14.8	13.8	20.6

Scan 2684 (14.134 min): PAH.D (-)

Abundance — Res — m/z--> peaks: 75, 88, 101, 150, 174, 202, 281

Scan 1809 (13.014 min): 569673S.D

Abundance — Raw — m/z--> peaks: 44, 73, 88, 101, 133, 147, 202, 230, 267, 281

Scan 1809 (13.014 min): 569673S.D (-1799) (-)

Abundance — Sub — m/z--> peaks: 44, 74, 88, 101, 133, 202, 230, 282

#38
Pyrene
Concen: 0.03 ug m
RT: 13.01 min   Scan# 1809
Delta R.T.   -0.01 min
Lab File: 569673S.D
Acq: 27 Jun 2008   6:58 pm

Tgt Ion:202	Resp:	11653	
Ion	Ratio	Lower	Upper
202	100		
101	0.0	12.5	18.7#
203	19.6	12.5	18.7#

Abundance Ion 202.00 (201.70 to 202.70): 569673
Ion 101.05 (100.75 to 101.75): 569673
Ion 203.00 (202.70 to 203.70): 569673

13.01

Time—> 12.90 12.95 13.00 13.05 13.10 13.15

569673S.D   A4-8.M   Wed Jul 02 10:42:37 2008   RPT1   Page 7

```
Data File : C:\MSDCHEM\#8\74768EJF\569674S.D          Vial: 32
Acq On    : 28 Jun 2008  12:33 am                     Operator: DC/DD
Sample    :                                           Inst    : Instrumen
Misc      :                                           Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:50 2008        Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8
```
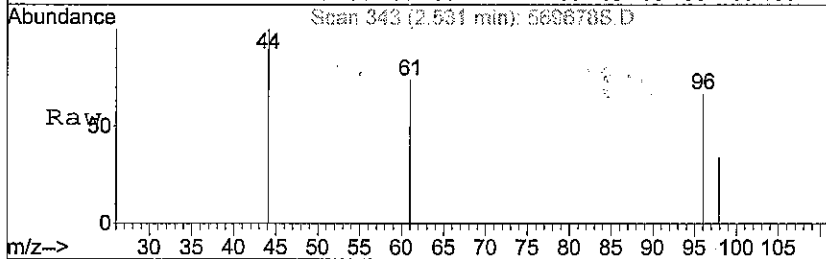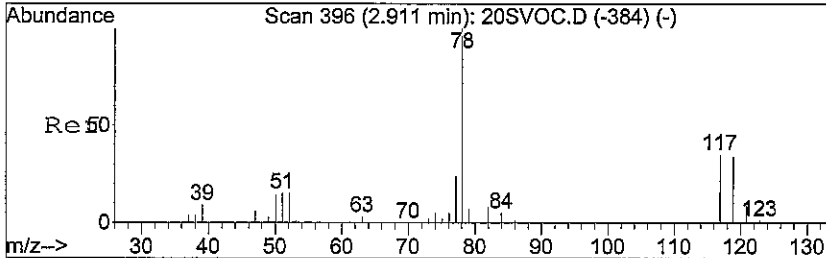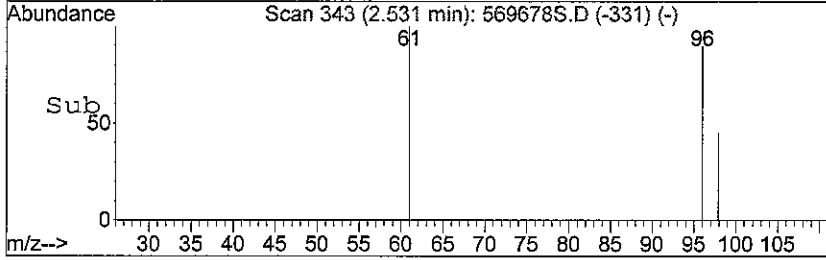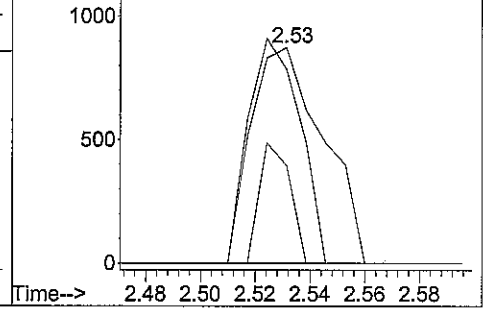
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
Target Compounds					Qvalue
1) Methyl t-butyl ether	2.31	73	1135m	0.01 ug	#
2) 1,1-Dichloroethene	2.10	61	0	N.D.	
3) trans-1,2-Dichloroethene	2.30	61	0	N.D.	
4) 1,1-Dichloroethane	2.37	63	0	N.D.	
5) cis-1,2-Dichloroethene	2.52	61	0	N.D.	
6) Chloroform	2.64	83	0	N.D.	
7) 1,1,1-Trichloroethane	2.79	97	0	N.D.	
8) 1,2-Dichloroethane	2.87	62	0	N.D.	
9) Benzene	2.93	78	6976m	0.03 ug	#
10) Carbon tetrachloride	2.92	117	0	N.D.	
11) Trichloroethene	3.28	95	0	N.D.	
12) 1,1,2- Trichloroethane	4.13	97	0	N.D.	
13) Toluene	3.98	91	0	N.D.	
14) Octane	4.29	43	0	N.D.	
15) Tetrachloroethene	4.40	166	0	N.D.	
16) Chlorobenzene	4.86	112	0	N.D.	
17) 1,1,1,2- Tetrachloroethane	4.93	131	0	N.D.	
18) Ethylbenzene	4.99	91	0	N.D.	
19) m,p-Xylene	5.08	91	0	N.D.	
20) o-Xylene	5.32	91	0	N.D.	
21) 1,1,2,2-Tetrachloroethane	5.60	83	0	N.D.	
22) 1,3,5-Trimethylbenzene	6.03	105	0	N.D.	
23) 1,2,4-Trimethylbenzene	6.26	105	0	N.D.	
24) 1,3-Dichlorobenzene	6.39	146	0	N.D.	
25) 1,4-Dichlorobenzene	6.47	146	0	N.D.	
26) 1,2-Dichlorobenzene	6.63	146	0	N.D.	
27) Undecane	7.03	57	0	N.D.	
28) Naphthalene	7.84	128	0	N.D.	
29) Tridecane	8.42	57	0	N.D.	
30) 2-Methyl naphthalene	8.60	142	0	N.D.	
31) Acenaphthylene	9.60	152	0	N.D.	
32) Pentadecane	9.62	57	0	N.D.	
33) Acenaphthene	9.82	153	1971m	0.01 ug	#
34) Fluorene	10.36	166	0	N.D.	
35) Phenanthrene	11.47	178	12105m	0.03 ug	#
36) Anthracene	0.00	178	0	N.D. d	
37) Fluoranthene	12.76	202	7591m	0.02 ug	#
38) Pyrene	13.01	202	7817m	0.02 ug	#

Data File : C:\MSDCHEM\#8\74768EJF\569674S.D   Vial: 32
Acq On   : 28 Jun 2008 12:33 am   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 15:02 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

TIC: 569674S.D

Scan 306 (2.267 min): 20SVOC.D (-301) (-)

Scan 312 (2.310 min): 569674S.D

Scan 312 (2.310 min): 569674S.D (-299) (-)

Scan 396 (2.911 min): 20SVOC.D (-384) (-)

Scan 399 (2.932 min): 569674S.D

Scan 399 (2.932 min): 569674S.D (-387) (-)

#1
Methyl t-butyl ether
Concen: 0.01 ug m
RT: 2.31 min   Scan# 312
Delta R.T.   0.01 min
Lab File: 569674S.D
Acq: 28 Jun 2008   12:33 am

Tgt Ion: 73 Resp: 1135
Ion   Ratio   Lower   Upper
 73   100
 57   0.0   17.9   26.9#
 41   9.1   16.6   24.8#

Abundance Ion 73.00 (72.70 to 73.70): 569674S.D
Ion 57.00 (56.70 to 57.70): 569674S.D
Ion 41.05 (40.75 to 41.75): 569674S.D

#9
Benzene
Concen: 0.03 ug m
RT: 2.93 min   Scan# 399
Delta R.T.   0.01 min
Lab File: 569674S.D
Acq: 28 Jun 2008   12:33 am

Tgt Ion: 78 Resp: 6976
Ion   Ratio   Lower   Upper
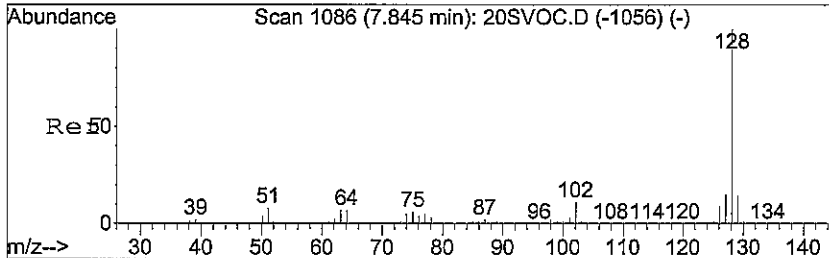 78   100
 51   6.7   13.8   20.6#
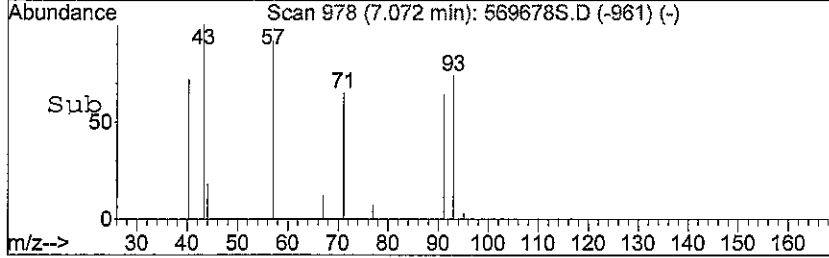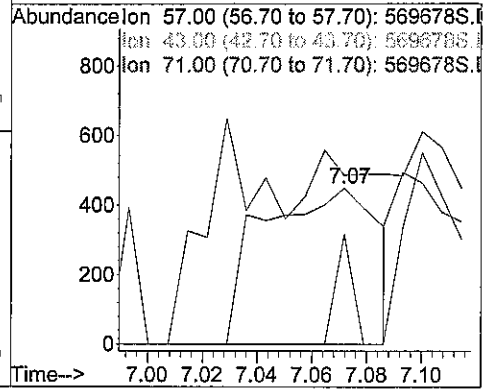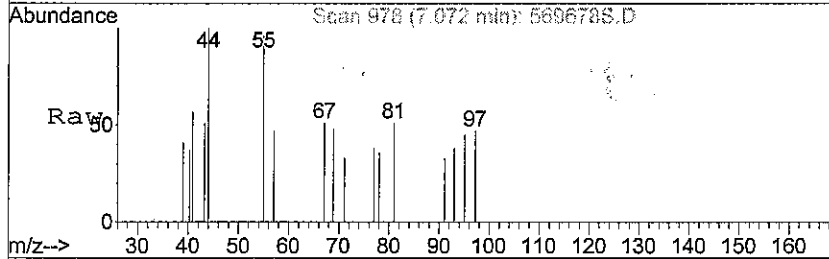 52   12.1   13.7   20.5#

Abundance Ion 77.95 (77.65 to 78.65): 569674S.D
Ion 50.95 (50.65 to 51.65): 569674S.D
Ion 52.05 (51.75 to 52.75): 569674S.D

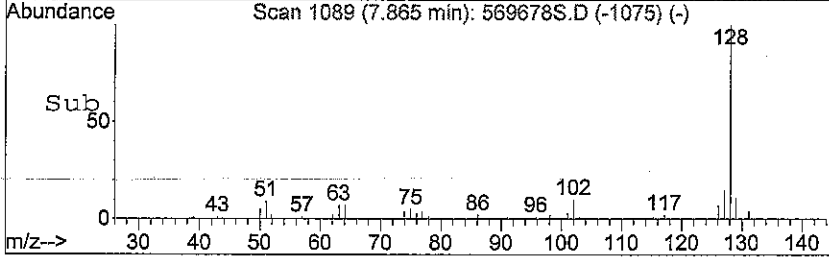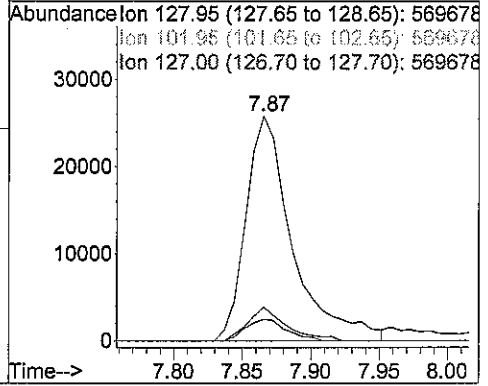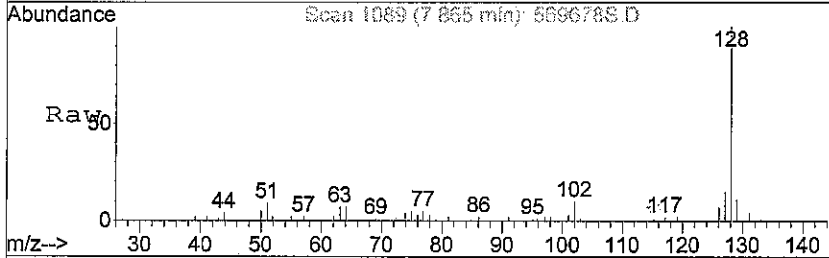569674S.D   A4-8.M   Wed Jul 02 10:42:38 2008   RPT1   Page 3

#33

Acenaphthene
Concen: 0.01 ug m
RT: 9.82 min   Scan# 1363
Delta R.T.   0.04 min
Lab File: 569674S.D
Acq: 28 Jun 2008 12:33 am

Tgt Ion:153	Resp:		1971
Ion	Ratio	Lower	Upper
153	100		
154	80.6	78.6	118.0
152	36.0	42.4	63.6#

#35

Phenanthrene
Concen: 0.03 ug m
RT: 11.47 min   Scan# 1593
Delta R.T.   0.03 min
Lab File: 569674S.D
Acq: 28 Jun 2008 12:33 am

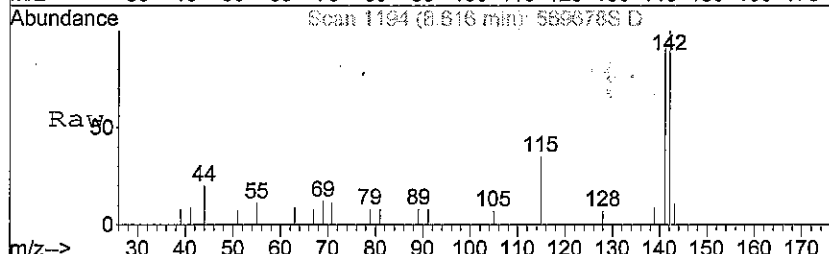| Tgt Ion:178	Resp:		12105
Ion	Ratio	Lower	Upper
178	100		
152	0.0	7.0	10.6#
179	10.1	12.9	19.3#

```
                    Quantitation Report      (QT Reviewed)

Data File : C:\MSDCHEM\#8\74768EJF\569675S.D            Vial: 34
Acq On    : 28 Jun 2008   1:29 am                    Operator: DC/DD
Sample    :                                          Inst    : Instrumen
Misc      :                                          Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:50 2008         Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8


  Internal Standards            R.T. QIon  Response  Conc Units Dev(Min)
  ---------------------------------------------------------------------------


Target Compounds                                              Qvalue
   1) Methyl t-butyl ether      2.31   73     1213m   0.01 ug    #
   2) 1,1-Dichloroethene        2.10   61        0    N.D.
   3) trans-1,2-Dichloroethene  2.30   61        0    N.D.
   4) 1,1-Dichloroethane        2.37   63        0    N.D.
   5) cis-1,2-Dichloroethene    2.52   61        0    N.D.
   6) Chloroform                2.64   83        0    N.D.
   7) 1,1,1-Trichloroethane     2.79   97        0    N.D.
   8) 1,2-Dichloroethane        2.87   62        0    N.D.
   9) Benzene                   2.93   78    13566m   0.05 ug    #
  10) Carbon tetrachloride      2.92  117        0    N.D.
  11) Trichloroethene           3.28   95        0    N.D.
  12) 1,1,2- Trichloroethane    4.13   97        0    N.D.
  13) Toluene                   3.98   91        0    N.D.
  14) Octane                    4.29   43        0    N.D.
  15) Tetrachloroethene         4.40  166        0    N.D.
  16) Chlorobenzene             4.86  112        0    N.D.
  17) 1,1,1,2- Tetrachloroethane 4.93 131        0    N.D.
  18) Ethylbenzene              4.99   91        0    N.D.
  19) m,p-Xylene                5.12   91     2307m   0.01 ug    #
  20) o-Xylene                  5.36   91     3231m   0.01 ug    #
  21) 1,1,2,2-Tetrachloroethane 5.60   83        0    N.D.
  22) 1,3,5-Trimethylbenzene    6.03  105        0    N.D.
  23) 1,2,4-Trimethylbenzene    6.31  105     5017m   0.02 ug    #
  24) 1,3-Dichlorobenzene       6.39  146        0    N.D.
  25) 1,4-Dichlorobenzene       6.47  146        0    N.D.
  26) 1,2-Dichlorobenzene       6.63  146        0    N.D.
  27) Undecane                  7.03   57        0    N.D.
  28) Naphthalene               7.88  128    66622m   0.14 ug    #
  29) Tridecane                 8.44   57     1365m   0.01 ug    #
  30) 2-Methyl naphthalene      8.62  142    19070m   0.05 ug    #
  31) Acenaphthylene            9.61  152     3511m   0.01 ug    #
  32) Pentadecane               9.62   57     3317m   0.02 ug    #
  33) Acenaphthene              9.80  153    39598m   0.11 ug    #
  34) Fluorene                 10.37  166    18142m   0.04 ug    #
  35) Phenanthrene             11.43  178    82262m   0.19 ug    #
  36) Anthracene               11.50  178    20513m   0.05 ug    #
  37) Fluoranthene             12.76  202    44473m   0.10 ug    #
  38) Pyrene                   13.01  202    40917m   0.10 ug    #




  ---------------------------------------------------------------------------
  (#) = qualifier out of range (m) = manual integration (+) = signals summed
  569675S.D  A4-8.M       Wed Jul 02 10:36:56 2008      RPT1         Page 1
```

Data File : C:\MSDCHEM\#8\74768EJF\569675S.D   Vial: 34
Acq On   : 28 Jun 2008   1:29 am   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
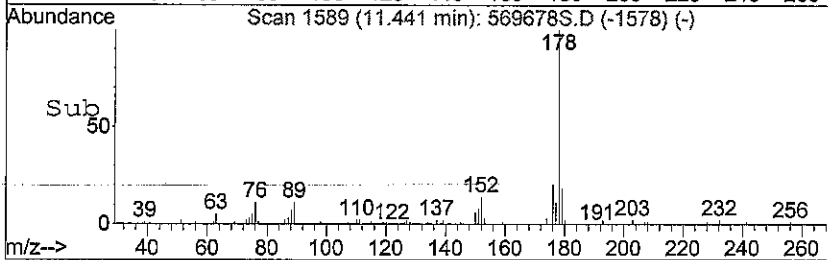Response via : Initial Calibration

#1
Methyl t-butyl ether
Concen: 0.01 ug m
RT: 2.31 min   Scan# 312
Delta R.T.   0.01 min
Lab File: 569675S.D
Acq: 28 Jun 2008   1:29 am

Tgt Ion: 73 Resp: 1213

Ion	Ratio	Lower	Upper
73	100		
57	0.0	17.9	26.9#
41	0.0	16.6	24.8#

#9
Benzene
Concen: 0.05 ug m
RT: 2.93 min   Scan# 399
Delta R.T.   0.01 min
Lab File: 569675S.D
Acq: 28 Jun 2008   1:29 am

Tgt Ion: 78 Resp: 13566

Ion	Ratio	Lower	Upper
78	100		
51	0.0	13.8	20.6#
52	14.2	13.7	20.5

#19
m,p-Xylene
Concen: 0.01 ug m
RT: 5.12 min   Scan# 705
Delta R.T.   0.04 min
Lab File: 569675S.D
Acq: 28 Jun 2008   1:29 am

Tgt Ion: 91 Resp: 2307

Ion	Ratio	Lower	Upper
91	100		
106	0.0	45.1	67.7#
105	0.0	20.6	31.0#

#20
o-Xylene
Concen: 0.01 ug m
RT: 5.36 min   Scan# 738
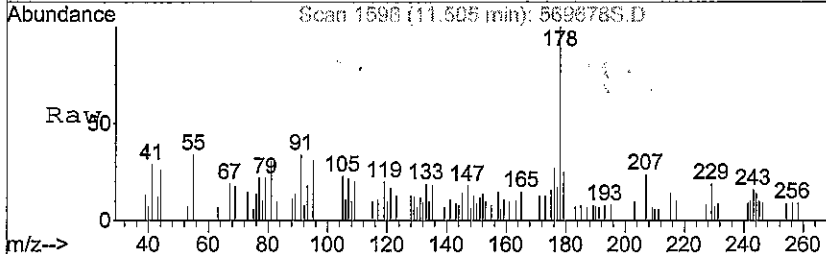Delta R.T.   0.04 min
Lab File: 569675S.D
Acq: 28 Jun 2008   1:29 am

Tgt Ion: 91 Resp: 3231

Ion	Ratio	Lower	Upper
91	100		
106	26.8	43.1	64.7#
105	8.5	18.2	27.2#

#23
1,2,4-Trimethylbenzene
Concen: 0.02 ug m
RT: 6.31 min   Scan# 871
Delta R.T.   0.05 min
Lab File: 569675S.D
Acq: 28 Jun 2008   1:29 am

Tgt Ion:105 Resp: 5017
Ion   Ratio   Lower   Upper
105   100
120   0.0   42.9   64.3#
77   0.0   11.9   17.9#

#28
Naphthalene
Concen: 0.14 ug m
RT: 7.88 min   Scan# 1091
Delta R.T.   0.04 min
Lab File: 569675S.D
Acq: 28 Jun 2008   1:29 am

Tgt Ion:128 Resp: 66622
Ion   Ratio   Lower   Upper
128   100
102   6.1   10.1   15.1#
127   9.6   14.2   21.4#

Scan 1167 (8.424 min): 20SVOC.D (-1160) (-)

Scan 1169 (8.438 min): 569675S.D

Scan 1169 (8.438 min): 569675S.D (-1155) (-)

#29
Tridecane
Concen: 0.01 ug m
RT: 8.44 min   Scan# 1169
Delta R.T.   0.02 min
Lab File: 569675S.D
Acq: 28 Jun 2008   1:29 am

Tgt Ion: 57 Resp: 1365

Ion	Ratio	Lower	Upper
57	100		
43	65.3	61.8	92.8
71	42.1	54.4	81.6#

Abundance Ion 57.00 (56.70 to 57.70): 569675S.D
Ion 43.10 (42.80 to 43.50): 569675S.D
Ion 71.00 (70.70 to 71.70): 569675S.D

Scan 1192 (8.603 min): 20SVOC.D (-1179) (-)

Scan 1195 (8.623 min): 569675S.D

Scan 1195 (8.623 min): 569675S.D (-1181) (-)

#30
2-Methyl naphthalene
Concen: 0.05 ug m
RT: 8.62 min   Scan# 1195
Delta R.T.   0.02 min
Lab File: 569675S.D
Acq: 28 Jun 2008   1:29 am

Tgt Ion:142 Resp: 19070

Ion	Ratio	Lower	Upper
142	100		
141	77.6	69.2	103.8
115	31.1	29.8	44.8

Abundance Ion 141.95 (141.65 to 142.65): 569675
Ion 140.95 (140.65 to 141.65): 569675
Ion 114.95 (114.65 to 115.65): 569675

#31
Acenaphthylene
Concen: 0.01 ug m
RT: 9.61 min   Scan# 1333
Delta R.T.   0.01 min
Lab File: 569675S.D
Acq: 28 Jun 2008   1:29 am

Tgt Ion:152 Resp: 3511
Ion   Ratio   Lower   Upper
152   100
 76   4.4   12.6   18.8#
151   16.6   21.7   32.5#

#32
Pentadecane
Concen: 0.02 ug m
RT: 9.62 min   Scan# 1335
Delta R.T.   0.01 min
Lab File: 569675S.D
Acq: 28 Jun 2008   1:29 am

Tgt Ion: 57 Resp: 3317
Ion   Ratio   Lower   Upper
 57   100
 43   44.0   57.7   86.5#
 71   58.4   58.2   87.2

Scan 1358 (9.789 min): 20SVOC.D (-1347) (-)
Abundance / Re 50 / m/z-->
153, 76, 39 51 63 87 102 113 126 139 165

Scan 1359 (9.796 min): 569675S.D
Abundance / Raw 50 / m/z-->
153, 76, 41 51 63 87 101 115 127 141 167 207

Scan 1359 (9.796 min): 569675S.D (-1347) (-)
Abundance / Sub 50 / m/z-->
153, 76, 39 51 63 87 98 115 127 139 165

#33
Acenaphthene
Concen: 0.11 ug m
RT: 9.80 min   Scan# 1359
Delta R.T.   0.01 min
Lab File: 569675S.D
Acq: 28 Jun 2008   1:29 am

Tgt Ion:153	Resp:		39598
Ion	Ratio	Lower	Upper
153	100		
154	93.8	78.6	118.0
152	49.5	42.4	63.6

Abundance Ion 153.00 (152.70 to 153.70): 569675
Ion 153.95 (153.65 to 154.65): 569675
Ion 152.00 (151.70 to 152.70): 569675
25000 20000 15000 10000 5000 0
9.80
Time--> 9.75 9.80 9.85

Scan 1438 (10.361 min): 20SVOC.D (-1428) (-)
Abundance / Re 50 / m/z-->
166, 82, 39 50 69 99 115 126 139 149

Scan 1439 (10.368 min): 569675S.D
Abundance / Raw 50 / m/z-->
166, 82, 155, 182, 44 55 69 95 105 115 129 139 201 217

Scan 1439 (10.368 min): 569675S.D (-1427) (-)
Abundance / Sub 50 / m/z-->
166, 83, 155, 40 63 97 115 129 139 187 201 217

#34
Fluorene
Concen: 0.04 ug m
RT: 10.37 min   Scan# 1439
Delta R.T.   0.01 min
Lab File: 569675S.D
Acq: 28 Jun 2008   1:29 am

Tgt Ion:166	Resp:		18142
Ion	Ratio	Lower	Upper
166	100		
165	82.4	73.4	110.2
82	34.2	13.8	20.8#

Abundance Ion 166.00 (165.70 to 166.70): 569675
Ion 165.00 (164.70 to 165.70): 569675
Ion 82.40 (82.10 to 83.10): 569675S.
10000 5000 0
10.37
Time--> 10.30 10.35 10.40 10.45

#35
Phenanthrene
Concen: 0.19 ug m
RT: 11.43 min   Scan# 1588
Delta R.T.   -0.01 min
Lab File: 569675S.D
Acq: 28 Jun 2008   1:29 am

Tgt Ion:178 Resp: 82262

Ion	Ratio	Lower	Upper
178	100		
152	12.3	7.0	10.6#
179	18.1	12.9	19.3

#36
Anthracene
Concen: 0.05 ug m
RT: 11.50 min   Scan# 1597
Delta R.T.   -0.01 min
Lab File: 569675S.D
Acq: 28 Jun 2008   1:29 am

Tgt Ion:178 Resp: 20513

Ion	Ratio	Lower	Upper
178	100		
152	5.9	6.2	9.4#
179	11.0	12.1	18.1#

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Scan 2608 (13.850 min): PAH.D (-)
Abundance — Res 50
202
74 87 101 150 174
m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Scan 1773 (12.756 min): 569675S.D
Abundance — Raw 50
202
44 73 88 101 133 147 174 221 281
m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Scan 1773 (12.756 min): 569675S.D (-1762) (-)
Abundance — Sub 50
202
43 63 88 101 135 150 174 281
m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

#37
Fluoranthene
Concen: 0.10 ug m
RT: 12.76 min   Scan# 1773
Delta R.T.   0.00 min
Lab File: 569675S.D
Acq: 28 Jun 2008   1:29 am

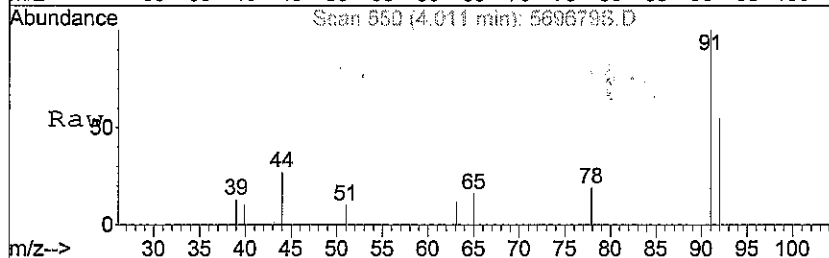Tgt Ion:202 Resp: 44473
Ion   Ratio   Lower   Upper
202   100
101   12.8   10.0   15.0
203   13.7   13.8   20.6#

Abundance Ion 202.00 (201.70 to 202.70): 569675
25000 Ion 101.05 (100.75 to 101.75): 569675
Ion 203.00 (202.70 to 203.70): 569675
20000
15000
10000
5000
0
Time--> 12.60   12.70   12.80   12.90

Scan 2684 (14.134 min): PAH.D (-)
Abundance — Res 50
202
73 87 101 150 174 281
m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Scan 1809 (13.014 min): 569675S.D
Abundance — Raw 50
202
44 73 87 101 115 133 147 174 189 230 267 281
m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Scan 1809 (13.014 min): 569675S.D (-1799) (-)
Abundance — Sub 50
202
40 73 87 101 115 133 150 174 189 230 267 281
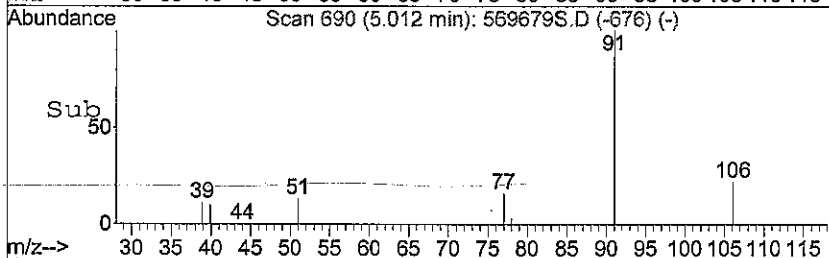m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

#38
Pyrene
Concen: 0.10 ug m
RT: 13.01 min   Scan# 1809
Delta R.T.   -0.01 min
Lab File: 569675S.D
Acq: 28 Jun 2008   1:29 am

Tgt Ion:202 Resp: 40917
Ion   Ratio   Lower   Upper
202   100
101   16.1   12.5   18.7
203   20.2   12.5   18.7#

Abundance Ion 202.00 (201.70 to 202.70): 569675
Ion 101.05 (100.75 to 101.75): 569675
20000 Ion 203.00 (202.70 to 203.70): 569675
13.01
15000
10000
5000
0
Time--> 12.90   13.00   13.10   13.20

```
Data File : C:\MSDCHEM\#8\74768EJF\569676S.D          Vial: 22
Acq On    : 27 Jun 2008   7:53 pm                     Operator: DC/DD
Sample    :                                           Inst    : Instrumen
Misc      :                                           Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:50 2008          Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8
```

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds						Qvalue
1) Methyl t-butyl ether	2.30	73	0	N.D.		
2) 1,1-Dichloroethene	2.10	61	0	N.D.		
3) trans-1,2-Dichloroethene	2.30	61	0	N.D.		
4) 1,1-Dichloroethane	2.37	63	0	N.D.		
5) cis-1,2-Dichloroethene	2.52	61	0	N.D.		
6) Chloroform	2.64	83	0	N.D.		
7) 1,1,1-Trichloroethane	2.79	97	0	N.D.		
8) 1,2-Dichloroethane	2.87	62	0	N.D.		
9) Benzene	2.92	78	0	N.D.		
10) Carbon tetrachloride	2.92	117	0	N.D.		
11) Trichloroethene	3.28	95	0	N.D.		
12) 1,1,2- Trichloroethane	4.13	97	0	N.D.		
13) Toluene	3.98	91	0	N.D.		
14) Octane	4.29	43	0	N.D.		
15) Tetrachloroethene	4.42	166	1406m	0.02	ug	#
16) Chlorobenzene	4.86	112	0	N.D.		
17) 1,1,1,2- Tetrachloroethane	4.93	131	0	N.D.		
18) Ethylbenzene	4.99	91	0	N.D.		
19) m,p-Xylene	5.08	91	0	N.D.		
20) o-Xylene	5.32	91	0	N.D.		
21) 1,1,2,2-Tetrachloroethane	5.60	83	0	N.D.		
22) 1,3,5-Trimethylbenzene	6.03	105	0	N.D.		
23) 1,2,4-Trimethylbenzene	6.26	105	0	N.D.		
24) 1,3-Dichlorobenzene	6.39	146	0	N.D.		
25) 1,4-Dichlorobenzene	6.47	146	0	N.D.		
26) 1,2-Dichlorobenzene	6.63	146	0	N.D.		
27) Undecane	7.10	57	1552m	0.01	ug	#
28) Naphthalene	7.90	128	15251m	0.03	ug	#
29) Tridecane	8.40	57	595m	0.00	ug	#
30) 2-Methyl naphthalene	8.66	142	1990m	0.01	ug	#
31) Acenaphthylene	9.60	152	0	N.D.		
32) Pentadecane	9.65	57	2987m	0.01	ug	
33) Acenaphthene	9.81	153	7565m	0.02	ug	#
34) Fluorene	10.39	166	3729m	0.01	ug	#
35) Phenanthrene	11.45	178	15704m	0.04	ug	#
36) Anthracene	0.00	178	0	N.D. d		
37) Fluoranthene	12.75	202	15435m	0.04	ug	#
38) Pyrene	13.01	202	14517m	0.03	ug	#

Data File : C:\MSDCHEM\#8\74768EJF\569676S.D   Vial: 22
Acq On   : 27 Jun 2008   7:53 pm   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 15:03 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

TIC: 569676S.D

Top left panel - Tetrachloroethene spectra:

Abundance — Scan 605 (4.405 min): 20SVOC.D (-598) (-)
Re 50
166
129
94
47
59
37
70
82
119
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

Abundance — Scan 607 (4.419 min): 569676S.D
Raw 50
44
78
129
166
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

Abundance — Scan 607 (4.419 min): 569676S.D (-594) (-)
Sub 50
78
129
166
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

#15
Tetrachloroethene
Concen: 0.02 ug m
RT: 4.42 min   Scan# 607
Delta R.T.   0.01 min
Lab File: 569676S.D
Acq: 27 Jun 2008   7:53 pm

Tgt Ion:166 Resp: 1406
Ion   Ratio   Lower   Upper
166   100
129   53.8   55.0   82.6#
 94   12.4   29.9   44.9#

Abundance Ion 165.80 (165.50 to 166.50): 569676
Ion 128.75 (128.45 to 129.45): 569676
Ion 93.85 (93.55 to 94.55): 569676.
1000
4.42
500
0
Time--> 4.38 4.40 4.42 4.44 4.46

Bottom left panel - Undecane spectra:

Abundance — Scan 973 (7.037 min): 20SVOC.D (-964) (-)
Re 50
43
57
71
85
36
98
113
127
140
156
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160

Abundance — Scan 982 (7.100 min): 569676S.D
Raw 50
44
57
78
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160

Abundance — Scan 982 (7.100 min): 569676S.D (-961) (-)
Sub 50
43
57
78
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160
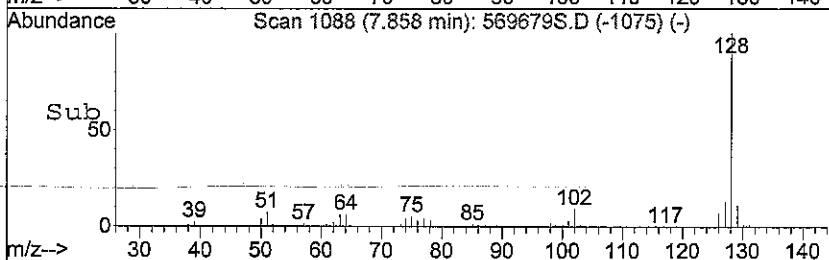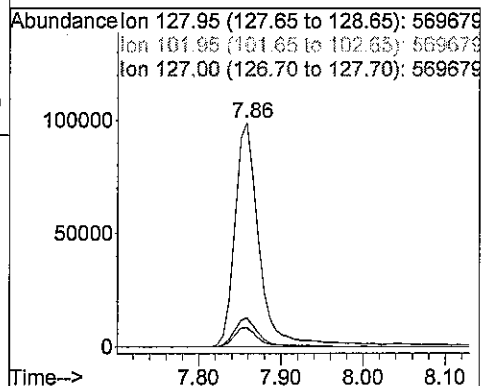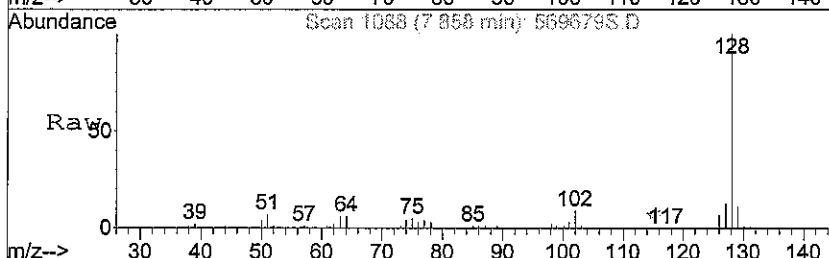
#27
Undecane
Concen: 0.01 ug m
RT: 7.10 min   Scan# 982
Delta R.T.   0.07 min
Lab File: 569676S.D
Acq: 27 Jun 2008   7:53 pm

Tgt Ion: 57 Resp: 1552
Ion   Ratio   Lower   Upper
 57   100
 43   0.0   66.6   100.0#
 71   0.0   44.7   67.1#

Abundance Ion 57.00 (56.70 to 57.70): 569676S.
Ion 43.00 (42.70 to 43.70): 569676S.
Ion 71.00 (70.70 to 71.70): 569676S.
1000
800
7.10
600
400
200
0
Time--> 7.05 7.10 7.15

#28

Scan 1086 (7.845 min): 20SVOC.D (-1056) (-)
Abundance Res 50

Scan 1094 (7.901 min): 569676S.D
Abundance Raw 50

Scan 1094 (7.901 min): 569676S.D (-1075) (-)
Abundance Sub 50

#28
Naphthalene
Concen: 0.03 ug m
RT: 7.90 min   Scan# 1094
Delta R.T.   0.06 min
Lab File: 569676S.D
Acq: 27 Jun 2008   7:53 pm

Tgt Ion:128	Resp:	15251	
Ion	Ratio	Lower	Upper
128	100		
102	0.0	10.1	15.1#
127	0.0	14.2	21.4#

Abundance Ion 127.95 (127.65 to 128.65): 569676
Ion 101.95 (101.65 to 102.65): 569676
Ion 127.00 (126.70 to 127.70): 569676

#29

Scan 1167 (8.424 min): 20SVOC.D (-1160) (-)
Abundance Res 50

Scan 1164 (8.402 min): 569676S.D
Abundance Raw 50

Scan 1164 (8.402 min): 569676S.D (-1155) (-)
Abundance Sub 50

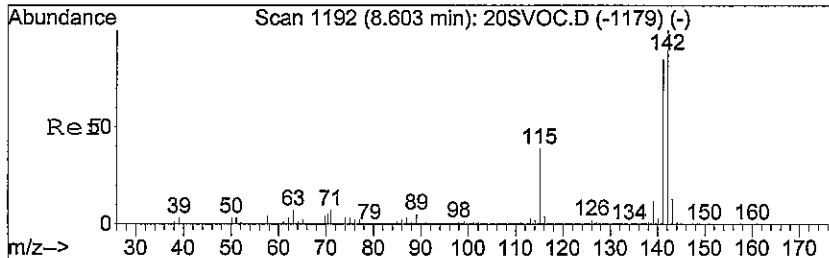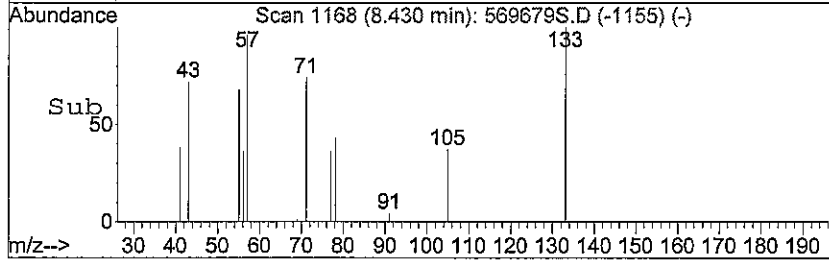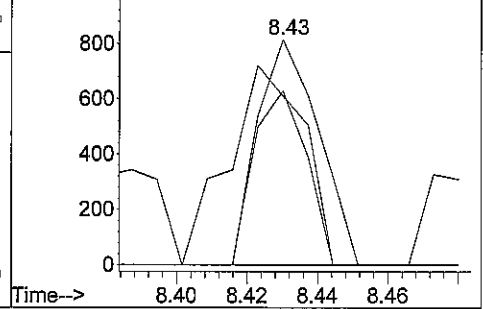#29
Tridecane
Concen: 0.00 ug m
RT: 8.40 min   Scan# 1164
Delta R.T.   -0.01 min
Lab File: 569676S.D
Acq: 27 Jun 2008   7:53 pm

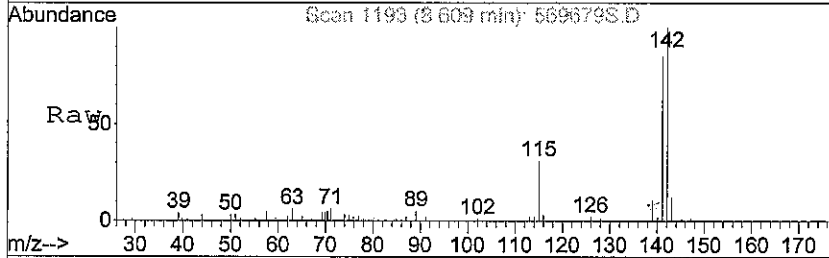| Tgt Ion: 57	Resp:	595	
Ion	Ratio	Lower	Upper
57	100		
43	172.6	61.8	92.8#
71	123.0	54.4	81.6#

Abundance Ion 57.00 (56.70 to 57.70): 569676S.
Ion 43.10 (42.80 to 43.80): 569676S.
Ion 71.00 (70.70 to 71.70): 569676S.

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Scan 1192 (8.603 min): 20SVOC.D (-1179) (-)

Scan 1200 (8.659 min): 569676S.D

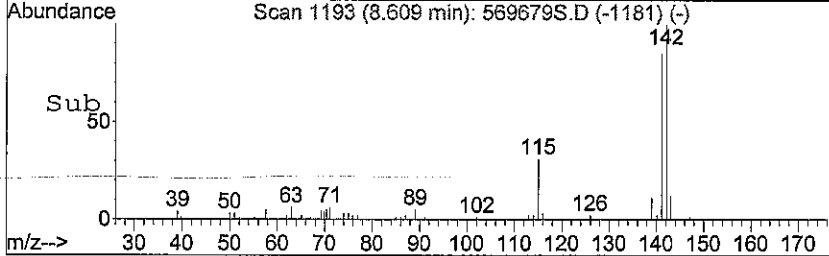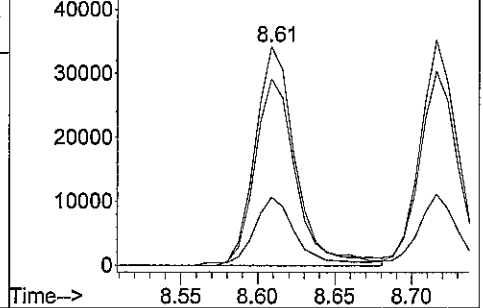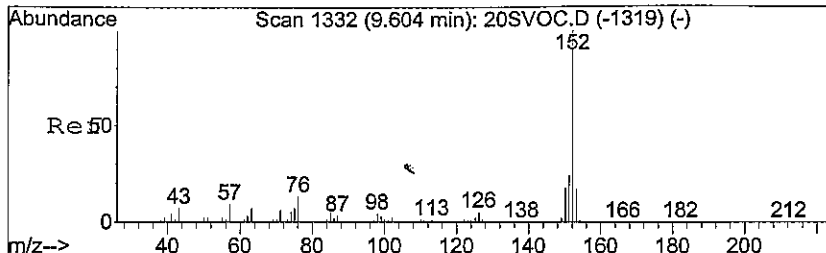Scan 1200 (8.659 min): 569676S.D (-1181) (-)

#30
2-Methyl naphthalene
Concen: 0.01 ug m
RT: 8.66 min   Scan# 1200
Delta R.T.   0.06 min
Lab File: 569676S.D
Acq: 27 Jun 2008   7:53 pm

Tgt Ion:142 Resp: 1990
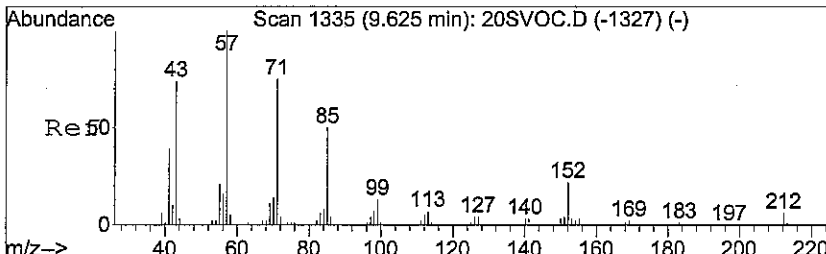Ion   Ratio   Lower   Upper
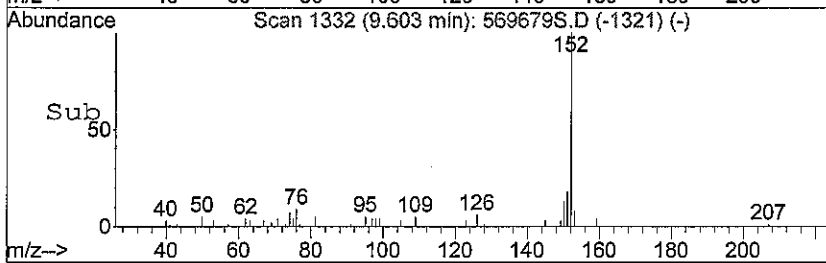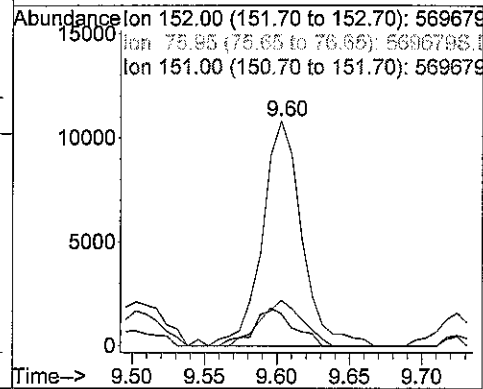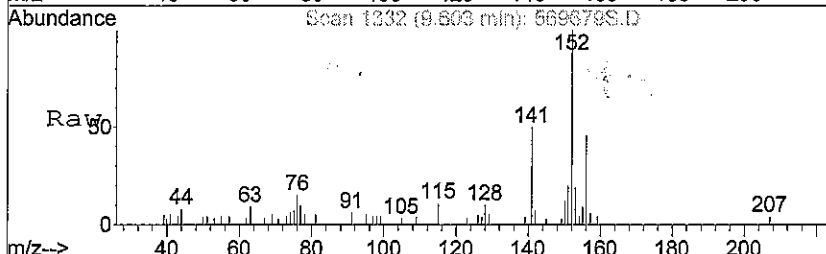142   100
141   0.0   69.2   103.8#
115   0.0   29.8   44.8#

Ion 141.95 (141.65 to 142.65): 569676
Ion 140.95 (140.65 to 141.65): 569676
Ion 114.95 (114.65 to 115.65): 569676

Scan 1335 (9.625 min): 20SVOC.D (-1327) (-)

Scan 1338 (9.646 min): 569676S.D

Scan 1338 (9.646 min): 569676S.D (-1323) (-)
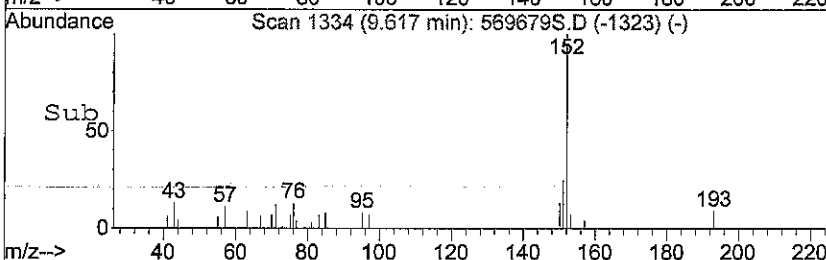
#32
Pentadecane
Concen: 0.01 ug m
RT: 9.65 min   Scan# 1338
Delta R.T.   0.03 min
Lab File: 569676S.D
Acq: 27 Jun 2008   7:53 pm

Tgt Ion: 57 Resp: 2987
Ion   Ratio   Lower   Upper
 57   100
 43   8.8   57.7   86.5#
 71   0.0   58.2   87.2#

Ion 57.00 (56.70 to 57.70): 569676S.
Ion 43.00 (42.70 to 43.70): 569676S.
Ion 71.00 (70.70 to 71.70): 569676S.

Abundance — Scan 1358 (9.789 min): 20SVOC.D (-1347) (-)
Res 50
153
76
39 51 63 87 102 110 126 139 165
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

Abundance — Scan 1361 (9.810 min): 569676S.D
Raw 50
153
44 57 69 77 85 97 109 125
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

Abundance — Scan 1361 (9.810 min): 569676S.D (-1347) (-)
Sub 50
153
39 57 76 85 97 109 125
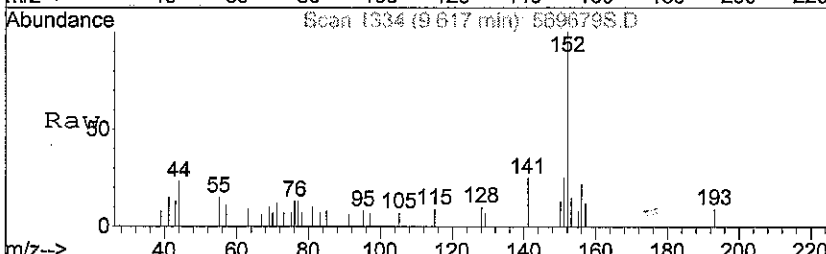m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

#33
Acenaphthene
Concen: 0.02 ug m
RT: 9.81 min   Scan# 1361
Delta R.T.   0.02 min
Lab File: 569676S.D
Acq: 27 Jun 2008   7:53 pm

Tgt Ion:153 Resp: 7565
Ion   Ratio   Lower   Upper
153   100
154   86.1   78.6   118.0
152   48.9   42.4   63.6

Abundance Ion 153.00 (152.70 to 153.70): 569676
Ion 153.95 (153.65 to 154.65): 569676
Ion 152.00 (151.70 to 152.70): 569676
4000
3000
2000
1000
0
9.81
Time--> 9.75   9.80   9.85   9.90

Abundance — Scan 1438 (10.361 min): 20SVOC.D (-1428) (-)
Res 50
166
39 50 60 69 82 99 115 126 139 149
m/z--> 40 60 80 100 120 140 160 180 200

Abundance — Scan 1442 (10.390 min): 569676S.D
Raw 50
166
44 55 69 83 95 109 207
m/z--> 40 60 80 100 120 140 160 180 200

Abundance — Scan 1442 (10.390 min): 569676S.D (-1427) (-)
Sub 50
166
43 57 83
m/z--> 40 60 80 100 120 140 160 180 200

#34
Fluorene
Concen: 0.01 ug m
RT: 10.39 min   Scan# 1442
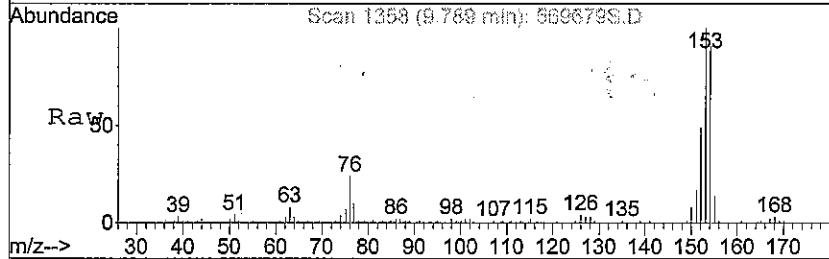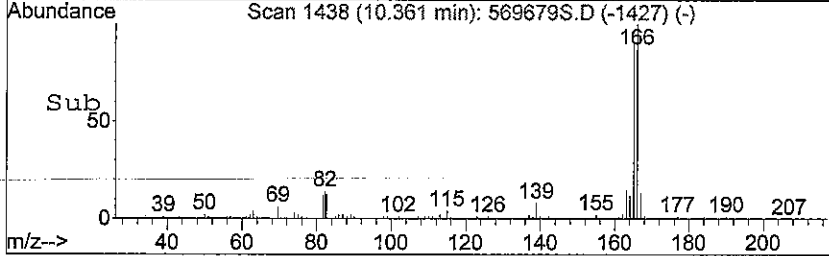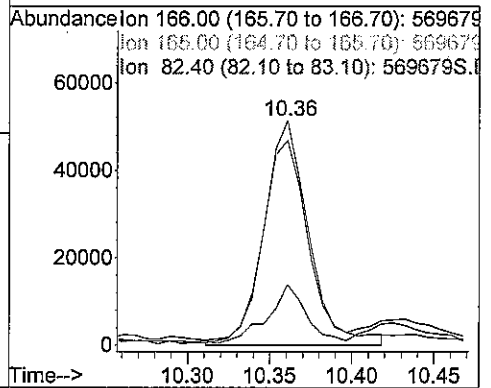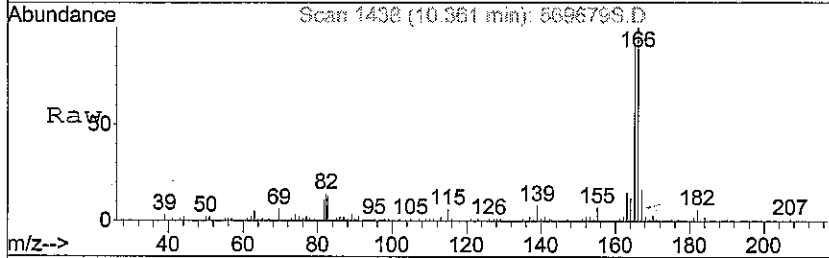Delta R.T.   0.03 min
Lab File: 569676S.D
Acq: 27 Jun 2008   7:53 pm

Tgt Ion:166 Resp: 3729
Ion   Ratio   Lower   Upper
166   100
165   77.9   73.4   110.2
 82   36.8   13.8   20.8#

Abundance Ion 166.00 (165.70 to 166.70): 569676
Ion 165.00 (164.70 to 165.70): 569676
Ion 82.40 (82.10 to 83.10): 569676S.
1500
1000
500
0
10.39
Time--> 10.35   10.40   10.45   10.50

569676S.D   A4-8.M   Wed Jul 02 10:42:40 2008   RPT1   Page 6

#35
Phenanthrene
Concen: 0.04 ug m
RT: 11.45 min   Scan# 1591
Delta R.T.   0.01 min
Lab File: 569676S.D
Acq: 27 Jun 2008   7:53 pm

Tgt Ion:178 Resp: 15704

Ion	Ratio	Lower	Upper
178	100		
152	7.9	7.0	10.6
179	14.3	12.9	19.3

#37
Fluoranthene
Concen: 0.04 ug m
RT: 12.75 min   Scan# 1772
Delta R.T.   -0.01 min
Lab File: 569676S.D
Acq: 27 Jun 2008   7:53 pm

Tgt Ion:202 Resp: 15435

Ion	Ratio	Lower	Upper
202	100		
101	14.5	10.0	15.0
203	15.3	13.8	20.6

Scan 2684 (14.134 min): PAH.D (-)

Abundance

Ref 50

202
75 88 101 150 174 281

m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Abundance Scan 1808 (13.007 min): 569676S.D

Raw 50

202
44 73 88 101 133 147 189 230 281

m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Abundance Scan 1808 (13.007 min): 569676S.D (-1799) (-)

Sub 50

202
44 75 88 101 189 230 281

m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

#38
Pyrene
Concen: 0.03 ug m
RT: 13.01 min   Scan# 1808
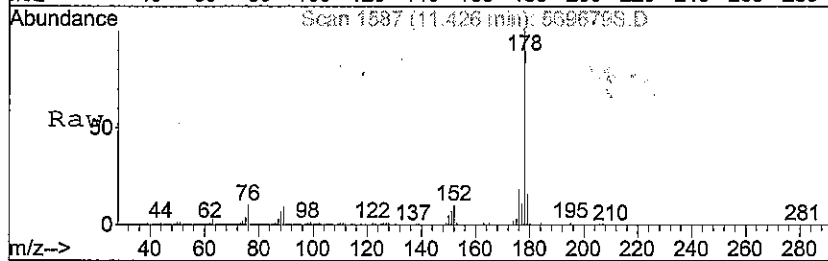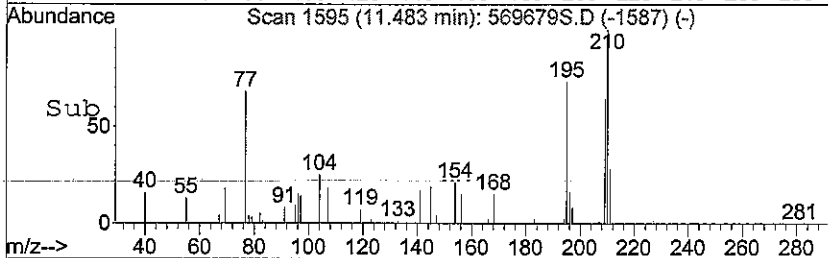Delta R.T.   -0.01 min
Lab File: 569676S.D
Acq: 27 Jun 2008   7:53 pm

Tgt Ion:202 Resp: 14517

Ion	Ratio	Lower	Upper
202	100		
101	17.5	12.5	18.7
203	18.4	12.5	18.7

Abundance Ion 202.00 (201.70 to 202.70): 569676
Ion 101.05 (100.75 to 101.75): 569676
6000 Ion 203.00 (202.70 to 203.70): 569676

13.01

4000

2000

0

Time--> 12.90   13.00   13.10

```
Data File : C:\MSDCHEM\#8\74768EJF\569677S.D          Vial: 51
Acq On    : 28 Jun 2008   9:25 am                     Operator: DC/DD
Sample    :                                           Inst    : Instrumen
Misc      :                                           Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:51 2008          Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8
```

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds

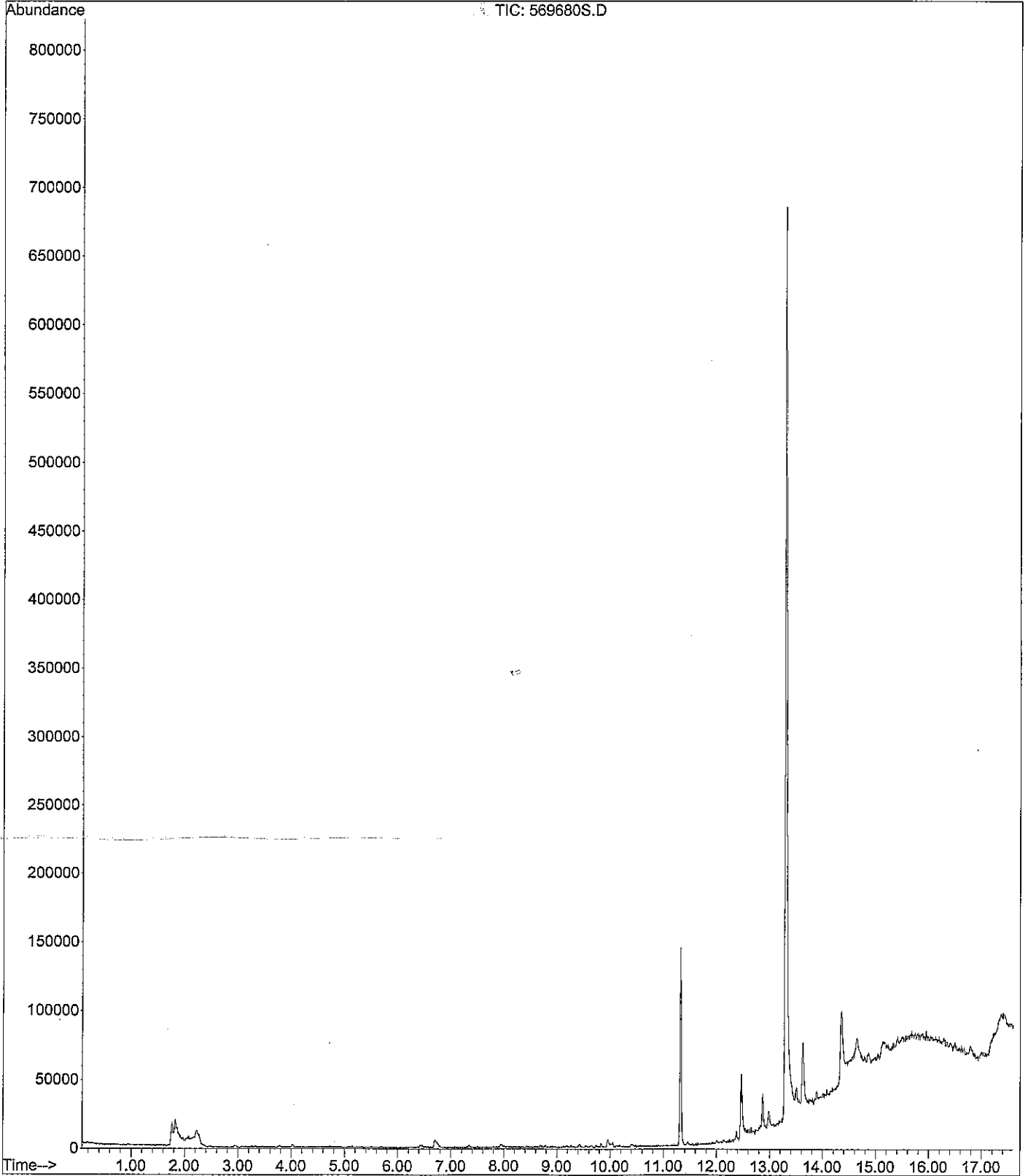|	R.T.	QIon	Response	Conc	Units	Qvalue
1) Methyl t-butyl ether	2.30	73	0	N.D.		
2) 1,1-Dichloroethene	2.10	61	0	N.D.		
3) trans-1,2-Dichloroethene	2.30	61	0	N.D.		
4) 1,1-Dichloroethane	2.37	63	0	N.D.		
5) cis-1,2-Dichloroethene	2.52	61	0	N.D.		
6) Chloroform	2.64	83	0	N.D.		
7) 1,1,1-Trichloroethane	2.79	97	0	N.D.		
8) 1,2-Dichloroethane	2.87	62	0	N.D.		
9) Benzene	2.92	78	0	N.D.		
10) Carbon tetrachloride	2.92	117	0	N.D.		
11) Trichloroethene	3.28	95	0	N.D.		
12) 1,1,2- Trichloroethane	4.13	97	0	N.D.		
13) Toluene	3.98	91	0	N.D.		
14) Octane	4.29	43	0	N.D.		
15) Tetrachloroethene	4.40	166	0	N.D.		
16) Chlorobenzene	4.86	112	0	N.D.		
17) 1,1,1,2- Tetrachloroethane	4.93	131	0	N.D.		
18) Ethylbenzene	4.99	91	0	N.D.		
19) m,p-Xylene	5.08	91	0	N.D.		
20) o-Xylene	5.32	91	0	N.D.		
21) 1,1,2,2-Tetrachloroethane	5.60	83	0	N.D.		
22) 1,3,5-Trimethylbenzene	6.03	105	0	N.D.		
23) 1,2,4-Trimethylbenzene	6.26	105	0	N.D.		
24) 1,3-Dichlorobenzene	6.39	146	0	N.D.		
25) 1,4-Dichlorobenzene	6.47	146	0	N.D.		
26) 1,2-Dichlorobenzene	6.63	146	0	N.D.		
27) Undecane	7.03	57	0	N.D.		
28) Naphthalene	7.89	128	63714m	0.14	ug	#
29) Tridecane	8.42	57	0	N.D.		
30) 2-Methyl naphthalene	8.64	142	17084m	0.05	ug	#
31) Acenaphthylene	9.62	152	4411m	0.01	ug	#
32) Pentadecane	9.62	57	0	N.D.		
33) Acenaphthene	9.80	153	11063m	0.03	ug	#
34) Fluorene	10.38	166	5655m	0.01	ug	#
35) Phenanthrene	11.45	178	37810m	0.09	ug	#
36) Anthracene	11.51	178	7873m	0.02	ug	#
37) Fluoranthene	12.76	202	14547m	0.03	ug	#
38) Pyrene	13.01	202	16319m	0.04	ug	#

Data File : C:\MSDCHEM\#8\74768EJF\569677S.D   Vial: 51
Acq On   : 28 Jun 2008   9:25 am   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
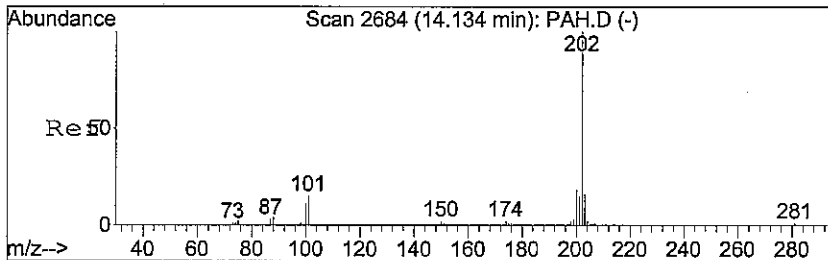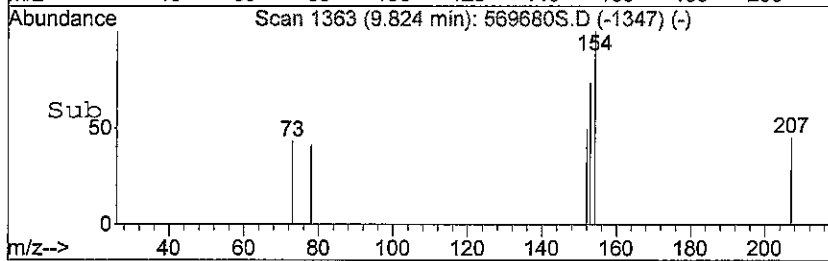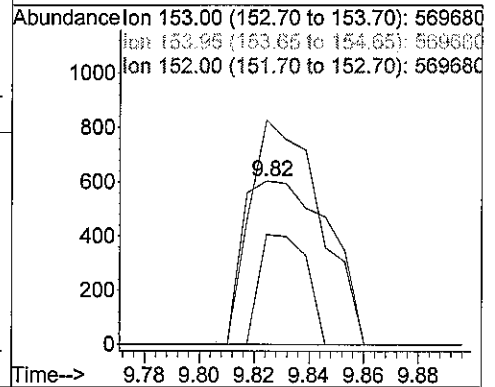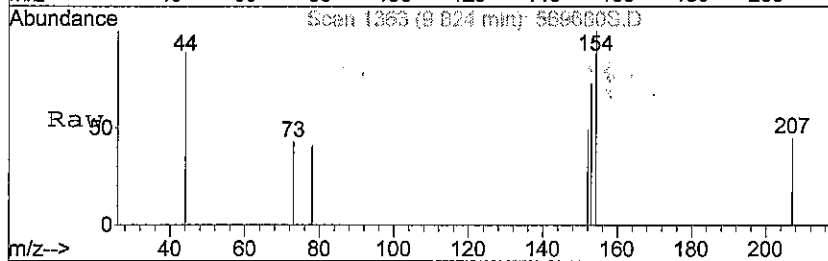Quant Time: Jun 30 14:53 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
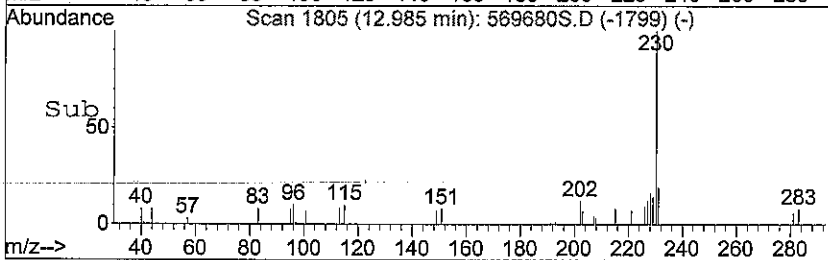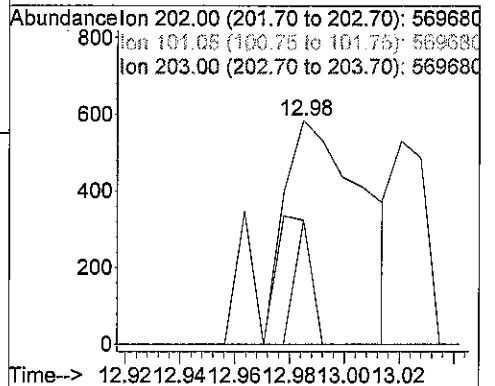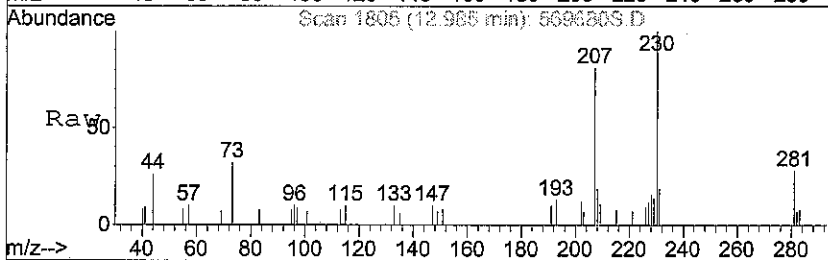Response via : Initial Calibration

Scan 1086 (7.845 min): 20SVOC.D (-1056) (-)

Abundance
Re 50
0
m/z-->
128
39 51 64 75 87 96 102 108 114 120 134
30 40 50 60 70 80 90 100 110 120 130 140

Scan 1092 (7.887 min): 569677S.D

Abundance
Raw 50
0
m/z-->
128
44 51 64 74 87 102
30 40 50 60 70 80 90 100 110 120 130 140

Scan 1092 (7.887 min): 569677S.D (-1075) (-)

Abundance
Sub 50
0
m/z-->
128
39 51 64 74 87 102
30 40 50 60 70 80 90 100 110 120 130 140

#28
Naphthalene
Concen: 0.14 ug m
RT: 7.89 min   Scan# 1092
Delta R.T.   0.04 min
Lab File: 569677S.D
Acq: 28 Jun 2008   9:25 am

Tgt Ion:128 Resp: 63714

Ion	Ratio	Lower	Upper
128	100		
102	0.0	10.1	15.1#
127	6.4	14.2	21.4#

Abundance Ion 127.95 (127.65 to 128.65): 569677
Ion 101.95 (101.65 to 102.65): 569677
Ion 127.00 (126.70 to 127.70): 569677

25000
20000
15000
10000
5000
0
Time-->
7.89
7.80 7.90 8.00 8.10

Scan 1192 (8.603 min): 20SVOC.D (-1179) (-)

Abundance
Re 50
0
m/z-->
142
115
39 50 63 71 79 89 98 126 134 150 160
30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

Scan 1197 (8.638 min): 569677S.D

Abundance
Raw 50
0
m/z-->
142
115
44 57 71
30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

Scan 1197 (8.638 min): 569677S.D (-1181) (-)

Abundance
Sub 50
0
m/z-->
142
115
39 57 71
30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

#30
2-Methyl naphthalene
Concen: 0.05 ug m
RT: 8.64 min   Scan# 1197
Delta R.T.   0.04 min
Lab File: 569677S.D
Acq: 28 Jun 2008   9:25 am

Tgt Ion:142 Resp: 17084

Ion	Ratio	Lower	Upper
142	100		
141	56.7	69.2	103.8#
115	21.6	29.8	44.8#

Abundance Ion 141.95 (141.65 to 142.65): 569677
Ion 140.95 (140.65 to 141.65): 569677
Ion 114.95 (114.65 to 115.65): 569677

8000
6000
4000
2000
0
Time--> 8.55 8.60 8.65 8.70 8.75
8.64

Top right panel (#31):

```
#31
Acenaphthylene
Concen:      0.01 ug m
RT: 9.62 min   Scan# 1334
Delta R.T.    0.02 min
Lab File:     569677S.D
Acq: 28 Jun 2008    9:25 am

Tgt Ion:152  Resp:      4411
Ion   Ratio   Lower   Upper
152   100
 76    3.9    12.6    18.8#
151   12.7    21.7    32.5#
```

Bottom right panel (#33):

```
#33
Acenaphthene
Concen:      0.03 ug m
RT: 9.80 min   Scan# 1360
Delta R.T.    0.01 min
Lab File:     569677S.D
Acq: 28 Jun 2008    9:25 am

Tgt Ion:153  Resp:     11063
Ion   Ratio   Lower   Upper
153   100
154   94.2    78.6   118.0
152   46.1    42.4    63.6
```

Scan 1438 (10.361 min): 20SVOC.D (-1428) (-)

Scan 1441 (10.382 min): 569677S.D

Scan 1441 (10.382 min): 569677S.D (-1427) (-)

#34
Fluorene
Concen: 0.01 ug m
RT: 10.38 min   Scan# 1441
Delta R.T.   0.02 min
Lab File: 569677S.D
Acq: 28 Jun 2008   9:25 am

Tgt Ion:166 Resp: 5655

Ion	Ratio	Lower	Upper
166	100		
165	85.6	73.4	110.2
82	21.0	13.8	20.8#

Ion 166.00 (165.70 to 166.70): 569677
Ion 165.00 (164.70 to 165.70): 569677
Ion 82.40 (82.10 to 83.10): 569677S.

Scan 2244 (12.487 min): PAH.D (-)

Scan 1590 (11.448 min): 569677S.D

Scan 1590 (11.448 min): 569677S.D (-1578) (-)

#35
Phenanthrene
Concen: 0.09 ug m
RT: 11.45 min   Scan# 1590
Delta R.T.   0.01 min
Lab File: 569677S.D
Acq: 28 Jun 2008   9:25 am

Tgt Ion:178 Resp: 37810

Ion	Ratio	Lower	Upper
178	100		
152	10.4	7.0	10.6
179	15.3	12.9	19.3

Ion 178.05 (177.75 to 178.75): 569677
Ion 152.00 (151.70 to 152.70): 569677
Ion 179.05 (178.75 to 179.75): 569677

Abundance   Scan 2260 (12.547 min): PAH.D (-)

Ref 50

178

39 51 63 76 89 99 110 126 139 152 163

m/z--> 40 60 80 100 120 140 160 180 200

Abundance   Scan 1599 (11.512 min): 569677S.D

178

Raw 50

44

73 89 152 195 207

m/z--> 40 60 80 100 120 140 160 180 200

Abundance   Scan 1599 (11.512 min): 569677S.D (-1587) (-)

78

195

Sub 50 207

m/z--> 40 60 80 100 120 140 160 180 200

#36
Anthracene
Concen: 0.02 ug m
RT: 11.51 min   Scan# 1599
Delta R.T.   0.01 min
Lab File: 569677S.D
Acq: 28 Jun 2008   9:25 am

Tgt Ion:178 Resp: 7873
Ion   Ratio   Lower   Upper
178   100
152   6.3   6.2   9.4
179   7.7   12.1   18.1#

Abundance Ion 178.05 (177.75 to 178.75): 569677
         Ion 152.05 (151.70 to 152.70): 569677
         Ion 179.05 (178.75 to 179.75): 569677

15000

10000

5000

11.51

Time--> 11.50 11.55 11.60

Abundance   Scan 2608 (13.850 min): PAH.D (-)

202

Ref 50

75 88 101 150 174

m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Abundance   Scan 1773 (12.756 min): 569677S.D

202

Raw 50

44 73 100 281

m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Abundance   Scan 1773 (12.756 min): 569677S.D (-1762) (-)

202

Sub 50

100 281

m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

#37
Fluoranthene
Concen: 0.03 ug m
RT: 12.76 min   Scan# 1773
Delta R.T.   0.00 min
Lab File: 569677S.D
Acq: 28 Jun 2008   9:25 am

Tgt Ion:202 Resp: 14547
Ion   Ratio   Lower   Upper
202   100
101   10.0   10.0   15.0#
203   17.1   13.8   20.6

Abundance Ion 202.00 (201.70 to 202.70): 569677
         Ion 101.05 (100.75 to 101.75): 569677
         Ion 203.00 (202.70 to 203.70): 569677

8000

12.76

6000

4000

2000

Time--> 12.65 12.70 12.75 12.80 12.85

Scan 2684 (14.134 min): PAH.D (-)

Abundance | Ref | 202 | 101 | 75 | 88 | 150 | 174 | 281

Scan 1809 (13.014 min): 569677S.D

Abundance | Raw | 202 | 44 | 73 | 88 | 101 | 115 | 133 | 147 | 230 | 281

Scan 1809 (13.014 min): 569677S.D (-1799) (-)

Abundance | Sub | 202 | 44 | 73 | 88 | 101 | 115 | 147 | 230 | 282

#38
Pyrene
Concen: 0.04 ug m
RT: 13.01 min   Scan# 1809
Delta R.T.   -0.01 min
Lab File: 569677S.D
Acq: 28 Jun 2008   9:25 am

Tgt	Ion:202	Resp:	16319
Ion	Ratio	Lower	Upper
202	100		
101	17.8	12.5	18.7
203	17.2	12.5	18.7

Abundance Ion 202.00 (201.70 to 202.70): 569677
Ion 101.00 (100.75 to 101.75): 569677
Ion 203.00 (202.70 to 203.70): 569677

13.01

```
                      Quantitation Report      (QT Reviewed)

Data File : C:\MSDCHEM\#8\74768EJF\569678S.D           Vial: 18
Acq On    : 27 Jun 2008    6:02 pm                    Operator: DC/DD
Sample    :                                           Inst    : Instrumen
Misc      :                                           Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:51 2008          Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8

  Internal Standards            R.T. QIon  Response   Conc Units Dev(Min)
  -----------------------------------------------------------------------

Target Compounds                                                 Qvalue
   1) Methyl t-butyl ether      0.00   73        0   N.D. d
   2) 1,1-Dichloroethene        2.10   61        0   N.D.
   3) trans-1,2-Dichloroethene  2.30   61        0   N.D.
   4) 1,1-Dichloroethane        2.37   63        0   N.D.
   5) cis-1,2-Dichloroethene    2.53   61     1594m   0.02 ug     #
   6) Chloroform                2.64   83        0   N.D.
   7) 1,1,1-Trichloroethane     2.79   97        0   N.D.
   8) 1,2-Dichloroethane        2.87   62        0   N.D.
   9) Benzene                   2.93   78     4826m   0.02 ug     #
  10) Carbon tetrachloride      2.92  117        0   N.D.
  11) Trichloroethene           3.28   95        0   N.D.
  12) 1,1,2- Trichloroethane    4.13   97        0   N.D.
  13) Toluene                   3.98   91        0   N.D.
  14) Octane                    4.29   43        0   N.D.
  15) Tetrachloroethene         4.40  166        0   N.D.
  16) Chlorobenzene             4.86  112        0   N.D.
  17) 1,1,1,2- Tetrachloroethane 4.93 131        0   N.D.
  18) Ethylbenzene              4.99   91        0   N.D.
  19) m,p-Xylene                5.08   91        0   N.D.
  20) o-Xylene                  5.32   91        0   N.D.
  21) 1,1,2,2-Tetrachloroethane 5.60   83        0   N.D.
  22) 1,3,5-Trimethylbenzene    6.03  105        0   N.D.
  23) 1,2,4-Trimethylbenzene    6.26  105        0   N.D.
  24) 1,3-Dichlorobenzene       6.39  146        0   N.D.
  25) 1,4-Dichlorobenzene       6.47  146        0   N.D.
  26) 1,2-Dichlorobenzene       6.63  146        0   N.D.
  27) Undecane                  7.07   57     1311m   0.01 ug     #
  28) Naphthalene               7.87  128    60950m   0.13 ug     #
  29) Tridecane                 8.42   57        0   N.D.
  30) 2-Methyl naphthalene      8.62  142    10387m   0.03 ug     #
  31) Acenaphthylene            9.62  152     4306m   0.01 ug     #
  32) Pentadecane               9.61   57     1606m   0.01 ug     #
  33) Acenaphthene              9.80  153    63067m   0.18 ug     #
  34) Fluorene                 10.38  166    20792m   0.05 ug     #
  35) Phenanthrene             11.44  178    51061m   0.12 ug     #
  36) Anthracene               11.50  178    18249m   0.04 ug     #
  37) Fluoranthene             12.75  202    47077m   0.11 ug     #
  38) Pyrene                   13.01  202    41262m   0.10 ug     #




---------------------------------------------------------------------------
(#) = qualifier out of range (m) = manual integration (+) = signals summed
569678S.D  A4-8.M      Wed Jul 02 10:36:57 2008      RPT1          Page 1
```
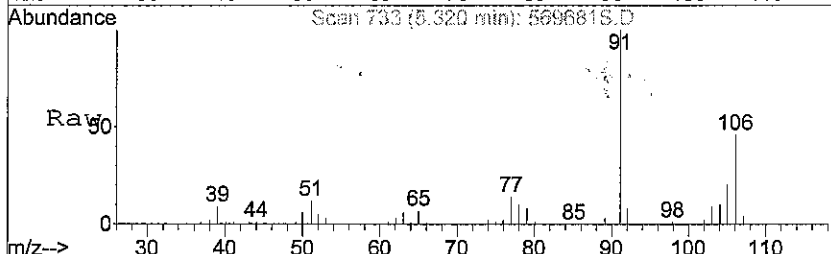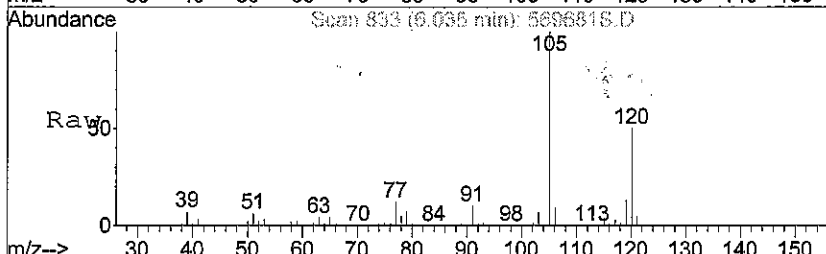
Data File : C:\MSDCHEM\#8\74768EJF\569678S.D   Vial: 18
Acq On   : 27 Jun 2008   6:02 pm   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 15:04 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

#5
cis-1,2-Dichloroethene
Concen: 0.02 ug m
RT: 2.53 min   Scan# 343
Delta R.T.   0.01 min
Lab File: 569678S.D
Acq: 27 Jun 2008   6:02 pm

Tgt Ion: 61 Resp: 1594

Ion	Ratio	Lower	Upper
61	100		
96	74.3	59.8	89.8
98	23.7	38.3	57.5#

#9
Benzene
Concen: 0.02 ug m
RT: 2.93 min   Scan# 399
Delta R.T.   0.01 min
Lab File: 569678S.D
Acq: 27 Jun 2008   6:02 pm

Tgt Ion: 78 Resp: 4826

Ion	Ratio	Lower	Upper
78	100		
51	5.4	13.8	20.6#
52	2.9	13.7	20.5#

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Scan 973 (7.037 min): 20SVOC.D (-964) (-)

Scan 978 (7.072 min): 569678S.D

Scan 978 (7.072 min): 569678S.D (-961) (-)

#27
Undecane
Concen: 0.01 ug m
RT: 7.07 min   Scan# 978
Delta R.T.   0.04 min
Lab File: 569678S.D
Acq: 27 Jun 2008   6:02 pm

Tgt Ion: 57   Resp: 1311

Ion	Ratio	Lower	Upper
57	100		
43	12.7	66.6	100.0#
71	10.4	44.7	67.1#

Ion 57.00 (56.70 to 57.70): 569678S.
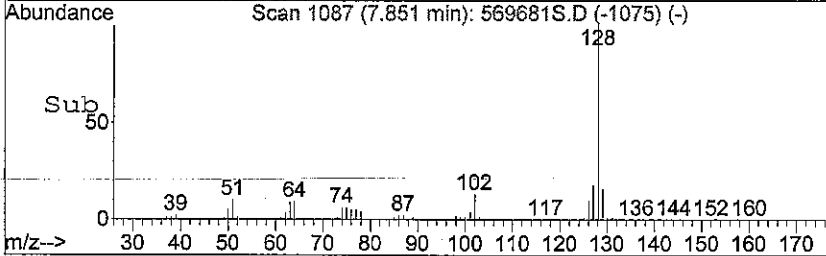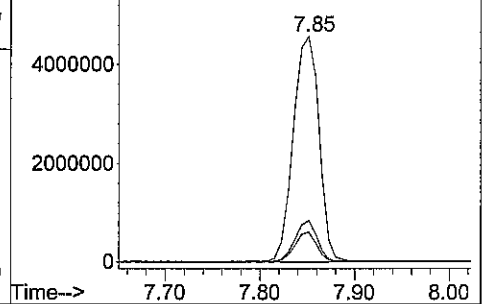Ion 43.00 (42.70 to 43.70): 569678S.
Ion 71.00 (70.70 to 71.70): 569678S.

7.07

Scan 1086 (7.845 min): 20SVOC.D (-1056) (-)

Scan 1089 (7.865 min): 569678S.D
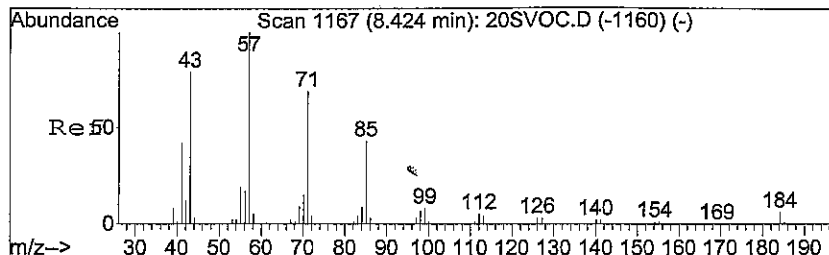
Scan 1089 (7.865 min): 569678S.D (-1075) (-)

#28
Naphthalene
Concen: 0.13 ug m
RT: 7.87 min   Scan# 1089
Delta R.T.   0.02 min
Lab File: 569678S.D
Acq: 27 Jun 2008   6:02 pm

Tgt Ion:128   Resp: 60950

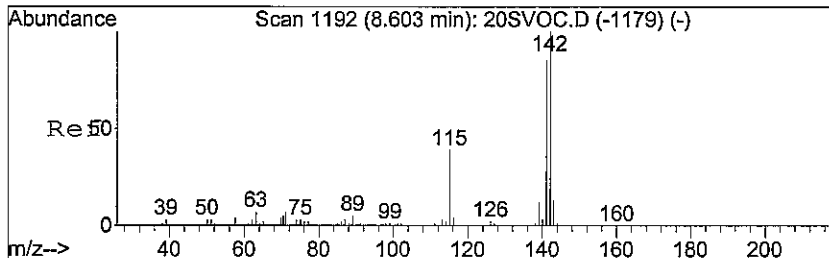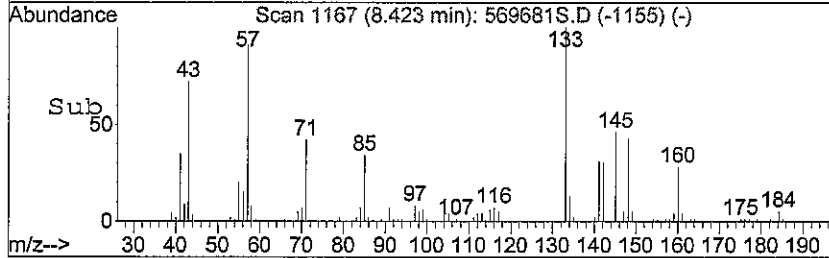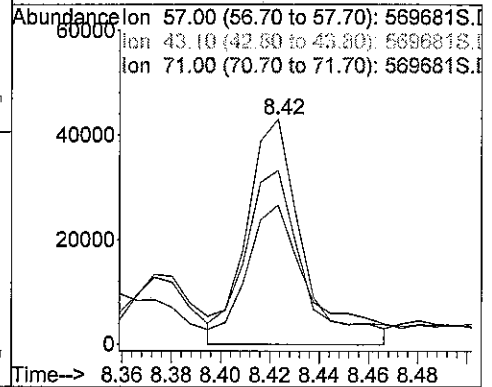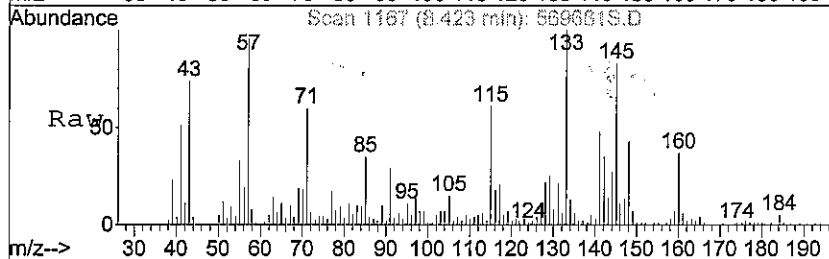| Ion	Ratio	Lower	Upper
128	100		
102	8.1	10.1	15.1#
127	11.3	14.2	21.4#

Ion 127.95 (127.65 to 128.65): 569678
Ion 101.95 (101.65 to 102.65): 569678
Ion 127.00 (126.70 to 127.70): 569678

7.87

#30
2-Methyl naphthalene
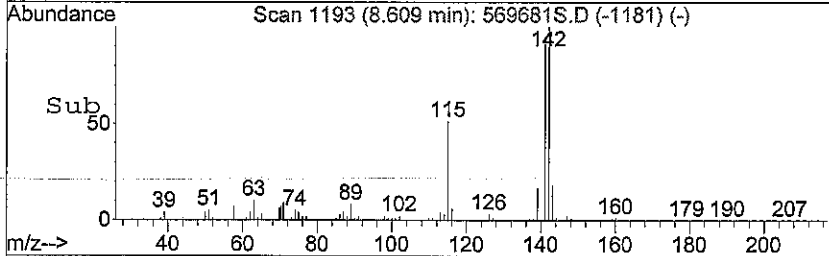Concen: 0.03 ug m
RT: 8.62 min   Scan# 1194
Delta R.T.   0.01 min
Lab File: 569678S.D
Acq: 27 Jun 2008   6:02 pm

Tgt Ion:142 Resp: 10387

Ion	Ratio	Lower	Upper
142	100		
141	75.4	69.2	103.8
115	34.8	29.8	44.8

#31
Acenaphthylene
Concen: 0.01 ug m
RT: 9.62 min   Scan# 1334
Delta R.T.   0.02 min
Lab File: 569678S.D
Acq: 27 Jun 2008   6:02 pm

Tgt Ion:152 Resp: 4306

Ion	Ratio	Lower	Upper
152	100		
76	11.9	12.6	18.8#
151	27.9	21.7	32.5

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#32
Pentadecane
Concen: 0.01 ug m
RT: 9.61 min   Scan# 1333
Delta R.T.   -0.01 min
Lab File: 569678S.D
Acq: 27 Jun 2008   6:02 pm

Tgt Ion: 57 Resp:		1606
Ion	Ratio	Lower	Upper
57	100		
43	23.2	57.7	86.5#
71	51.4	58.2	87.2#

#33
Acenaphthene
Concen: 0.18 ug m
RT: 9.80 min   Scan# 1359
Delta R.T.   0.01 min
Lab File: 569678S.D
Acq: 27 Jun 2008   6:02 pm

Tgt Ion:153 Resp:		63067
Ion	Ratio	Lower	Upper
153	100		
154	93.8	78.6	118.0
152	47.0	42.4	63.6

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#34
Fluorene
Concen: 0.05 ug m
RT: 10.38 min   Scan# 1440
Delta R.T.   0.01 min
Lab File: 569678S.D
Acq: 27 Jun 2008   6:02 pm

Tgt Ion:166 Resp: 20792

Ion	Ratio	Lower	Upper
166	100		
165	74.8	73.4	110.2
82	32.2	13.8	20.8#

#35
Phenanthrene
Concen: 0.12 ug m
RT: 11.44 min   Scan# 1589
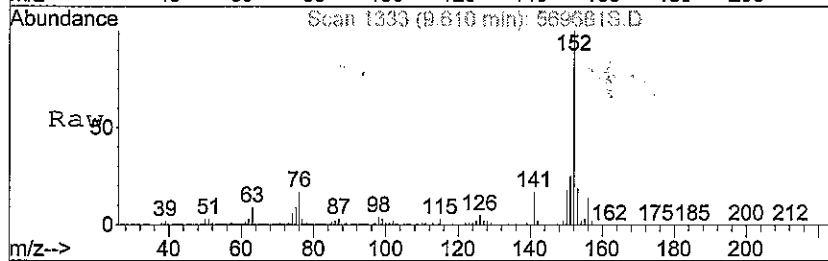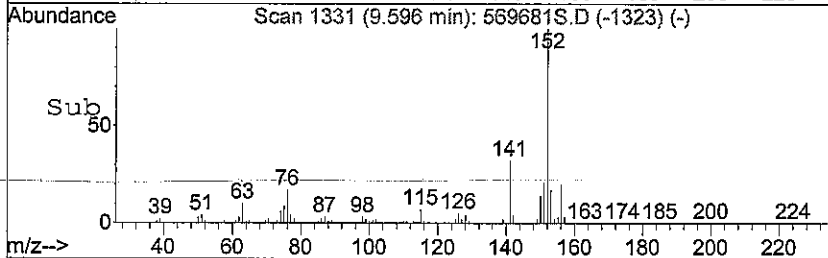Delta R.T.   -0.00 min
Lab File: 569678S.D
Acq: 27 Jun 2008   6:02 pm

Tgt Ion:178 Resp: 51061

Ion	Ratio	Lower	Upper
178	100		
152	13.4	7.0	10.6#
179	19.0	12.9	19.3

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#36
Anthracene
Concen: 0.04 ug m
RT: 11.50 min   Scan# 1598
Delta R.T.   -0.00 min
Lab File: 569678S.D
Acq: 27 Jun 2008   6:02 pm

Tgt Ion:178 Resp: 18249

Ion	Ratio	Lower	Upper
178	100		
152	4.4	6.2	9.4#
179	8.5	12.1	18.1#

#37
Fluoranthene
Concen: 0.11 ug m
RT: 12.75 min   Scan# 1772
Delta R.T.   -0.01 min
Lab File: 569678S.D
Acq: 27 Jun 2008   6:02 pm

Tgt Ion:202 Resp: 47077

Ion	Ratio	Lower	Upper
202	100		
101	13.1	10.0	15.0
203	18.0	13.8	20.6

Scan 2684 (14.134 min): PAH.D (-)

Abundance
Res 50
202
73 87 101 150 174 281
m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Scan 1808 (13.006 min): 569678S.D

Abundance
Raw 50
202
44 73 100 115 133 147 174 230 267 281
m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Scan 1808 (13.006 min): 569678S.D (-1799) (-)

Abundance
Sub 50
202
39 74 88 101 115 152 174 230 267 281
m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

#38
Pyrene
Concen: 0.10 ug m
RT: 13.01 min   Scan# 1808
Delta R.T.   -0.01 min
Lab File: 569678S.D
Acq: 27 Jun 2008   6:02 pm

Tgt Ion:202 Resp: 41262
Ion   Ratio   Lower   Upper
202   100
101   16.5   12.5   18.7
203   23.1   12.5   18.7#

Abundance Ion 202.00 (201.70 to 202.70): 569678
Ion 101.05 (100.75 to 101.75): 569678
Ion 203.00 (202.70 to 203.70): 569678
20000
15000
10000
5000
0
13.01
Time--> 12.85 12.90 12.95 13.00 13.05 13.10

Data File : C:\MSDCHEM\#8\74768EJF\569679S.D   Vial: 19
Acq On   : 27 Jun 2008   6:30 pm   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:52 2008   Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8

```
 Internal Standards                    R.T. QIon  Response  Conc Units Dev(Min)
 -----------------------------------------------------------------------------

 Target Compounds                                                     Qvalue
   1) Methyl t-butyl ether            2.30   73      867m   0.00 ug     #
   2) 1,1-Dichloroethene              2.10   61        0    N.D.
   3) trans-1,2-Dichloroethene        2.30   61        0    N.D.
   4) 1,1-Dichloroethane              2.37   63        0    N.D.
   5) cis-1,2-Dichloroethene          2.52   61        0    N.D.
   6) Chloroform                      2.64   83        0    N.D.
   7) 1,1,1-Trichloroethane           2.79   97        0    N.D.
   8) 1,2-Dichloroethane              2.87   62        0    N.D.
   9) Benzene                         2.92   78     4275m   0.02 ug     #
  10) Carbon tetrachloride            2.92  117        0    N.D.
  11) Trichloroethene                 3.28   95        0    N.D.
  12) 1,1,2- Trichloroethane          4.13   97        0    N.D.
  13) Toluene                         4.01   91     5431m   0.02 ug     #
  14) Octane                          4.29   43        0    N.D.
  15) Tetrachloroethene               4.40  166        0    N.D.
  16) Chlorobenzene                   4.86  112        0    N.D.
  17) 1,1,1,2- Tetrachloroethane      4.93  131        0    N.D.
  18) Ethylbenzene                    5.01   91     5381m   0.02 ug     #
  19) m,p-Xylene                      5.11   91    16643m   0.06 ug     #
  20) o-Xylene                        5.33   91    10563m   0.04 ug     #
  21) 1,1,2,2-Tetrachloroethane       5.60   83        0    N.D.
  22) 1,3,5-Trimethylbenzene          6.06  105     2425m   0.01 ug     #
  23) 1,2,4-Trimethylbenzene          6.29  105     6287m   0.02 ug     #
  24) 1,3-Dichlorobenzene             6.39  146        0    N.D.
  25) 1,4-Dichlorobenzene             6.47  146        0    N.D.
  26) 1,2-Dichlorobenzene             6.63  146        0    N.D.
  27) Undecane                        7.06   57      952m   0.01 ug     #
  28) Naphthalene                     7.86  128   206326m   0.45 ug     #
  29) Tridecane                       8.43   57      978m   0.00 ug     #
  30) 2-Methyl naphthalene            8.61  142    62380m   0.18 ug     #
  31) Acenaphthylene                  9.60  152    20485m   0.03 ug     #
  32) Pentadecane                     9.62   57     1396m   0.01 ug     #
  33) Acenaphthene                    9.79  153    99274m   0.28 ug     #
  34) Fluorene                       10.36  166    96771m   0.23 ug     #
  35) Phenanthrene                   11.43  178   374722m   0.88 ug     #
  36) Anthracene                     11.48  178   159922m   0.37 ug     #
  37) Fluoranthene                   12.74  202   352694m   0.83 ug     #
  38) Pyrene                         13.00  202   180476m   0.42 ug     #
```
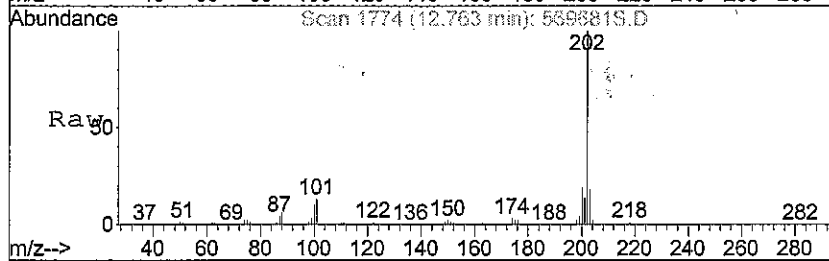
Data File : C:\MSDCHEM\#8\74768EJF\569679S.D   Vial: 19
Acq On   : 27 Jun 2008   6:30 pm   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

#1
Methyl t-butyl ether
Concen: 0.00 ug m
RT: 2.30 min   Scan# 310
Delta R.T.   -0.00 min
Lab File: 569679S.D
Acq: 27 Jun 2008   6:30 pm

Tgt Ion: 73 Resp: 867

Ion	Ratio	Lower	Upper
73	100		
57	0.0	17.9	26.9#
41	0.0	16.6	24.8#

Abundance Ion 73.00 (72.70 to 73.70): 569679S.I
Ion 57.00 (56.70 to 57.70): 569679S.I
Ion 41.05 (40.75 to 41.75): 569679S.I

#9
Benzene
Concen: 0.02 ug m
RT: 2.92 min   Scan# 398
Delta R.T.   -0.00 min
Lab File: 569679S.D
Acq: 27 Jun 2008   6:30 pm

Tgt Ion: 78 Resp: 4275

Ion	Ratio	Lower	Upper
78	100		
51	3.2	13.8	20.6#
52	3.3	13.7	20.5#

Abundance Ion 77.95 (77.65 to 78.65): 569679S.I
Ion 50.95 (50.65 to 51.65): 569679S.I
Ion 52.05 (51.75 to 52.75): 569679S.I

#13
Toluene
Concen: 0.02 ug m
RT: 4.01 min   Scan# 550
Delta R.T.   0.03 min
Lab File: 569679S.D
Acq: 27 Jun 2008   6:30 pm

Tgt Ion: 91	Resp:		5431
Ion	Ratio	Lower	Upper
91	100		
65	9.2	11.2	16.8#
92	53.2	52.9	79.3

#18
Ethylbenzene
Concen: 0.02 ug m
RT: 5.01 min   Scan# 690
Delta R.T.   0.02 min
Lab File: 569679S.D
Acq: 27 Jun 2008   6:30 pm

Tgt Ion: 91	Resp:		5381
Ion	Ratio	Lower	Upper
91	100		
106	23.9	30.8	46.2#
51	6.4	9.4	14.0#

#19
m,p-Xylene
Concen: 0.06 ug m
RT: 5.11 min   Scan# 703
Delta R.T.   0.02 min
Lab File: 569679S.D
Acq: 27 Jun 2008   6:30 pm

Tgt Ion: 91 Resp: 16643
Ion   Ratio   Lower   Upper
 91   100
106   41.4   45.1   67.7#
105   16.0   20.6   31.0#

#20
o-Xylene
Concen: 0.04 ug m
RT: 5.33 min   Scan# 735
Delta R.T.   0.01 min
Lab File: 569679S.D
Acq: 27 Jun 2008   6:30 pm

Tgt Ion: 91 Resp: 10563
Ion   Ratio   Lower   Upper
 91   100
106   41.0   43.1   64.7#
105   16.2   18.2   27.2#

Scan 833 (6.036 min): 20SVOC.D (-826) (-)
Abundance / Re 50
Peaks: 39, 63, 77, 91, 105, 120, 146
m/z-->

Scan 836 (6.056 min): 569679S.D
Abundance / Raw 50
Peaks: 44, 78, 105, 120, 281
m/z-->

Scan 836 (6.056 min): 569679S.D (-821) (-)
Abundance / Sub 50
Peaks: 44, 78, 105, 120, 281
m/z-->

#22
1,3,5-Trimethylbenzene
Concen: 0.01 ug m
RT: 6.06 min   Scan# 836
Delta R.T.   0.03 min
Lab File: 569679S.D
Acq: 27 Jun 2008   6:30 pm

Tgt Ion:105	Resp:		2425
Ion	Ratio	Lower	Upper
105	100		
120	0.0	45.1	67.7#
77	0.0	12.2	18.4#

Abundance Ion 105.05 (104.75 to 105.75): 569679
Ion 120.05 (119.75 to 120.75): 569679
Ion 76.95 (76.65 to 77.65): 569679S.
Peak: 6.06
Time-->

Scan 865 (6.264 min): 20SVOC.D (-853) (-)
Abundance / Re 50
Peaks: 39, 51, 58, 65, 77, 84, 91, 98, 105, 113, 120, 146
m/z-->

Scan 868 (6.285 min): 569679S.D
Abundance / Raw 50
Peaks: 44, 57, 77, 91, 105, 120
m/z-->

Scan 868 (6.285 min): 569679S.D (-853) (-)
Abundance / Sub 50
Peaks: 43, 57, 77, 91, 105, 120
m/z-->

#23
1,2,4-Trimethylbenzene
Concen: 0.02 ug m
RT: 6.29 min   Scan# 868
Delta R.T.   0.03 min
Lab File: 569679S.D
Acq: 27 Jun 2008   6:30 pm

Tgt Ion:105	Resp:		6287
Ion	Ratio	Lower	Upper
105	100		
120	42.2	42.9	64.3#
77	15.9	11.9	17.9

Abundance Ion 105.05 (104.75 to 105.75): 569679
Ion 120.05 (119.75 to 120.75): 569679
Ion 76.95 (76.65 to 77.65): 569679S.
Peak: 6.29
Time-->

#27
Undecane
Concen: 0.01 ug m
RT: 7.06 min   Scan# 977
Delta R.T.   0.04 min
Lab File: 569679S.D
Acq: 27 Jun 2008   6:30 pm

Tgt Ion: 57 Resp: 952
Ion   Ratio   Lower   Upper
57   100
43   90.1   66.6   100.0
71   37.2   44.7   67.1#

#28
Naphthalene
Concen: 0.45 ug m
RT: 7.86 min   Scan# 1088
Delta R.T.   0.01 min
Lab File: 569679S.D
Acq: 27 Jun 2008   6:30 pm

Tgt Ion:128 Resp: 206326
Ion   Ratio   Lower   Upper
128   100
102   8.0   10.1   15.1#
127   11.9   14.2   21.4#

Spectrum 1 (top-left): Scan 1167 (8.424 min): 20SVOC.D (-1160) (-)
Res, m/z--> peaks: 43, 57, 71, 85, 99, 112, 126, 140, 154, 169, 184

Spectrum 2 (middle-left): Scan 1168 (8.430 min): 569679S.D
Raw, m/z--> peaks: 44, 57, 71, 91, 105, 133

Spectrum 3 (lower-left): Scan 1168 (8.430 min): 569679S.D (-1155) (-)
Sub, m/z--> peaks: 43, 57, 71, 91, 105, 133

#29
Tridecane
Concen: 0.00 ug m
RT: 8.43 min   Scan# 1168
Delta R.T.   0.01 min
Lab File: 569679S.D
Acq: 27 Jun 2008   6:30 pm

Tgt Ion: 57	Resp:		978
Ion	Ratio	Lower	Upper
57	100		
43	109.2	61.8	92.8#
71	66.5	54.4	81.6

Abundance Ion 57.00 (56.70 to 57.70): 569679S.
Ion 43.10 (42.80 to 43.80): 569679S.
Ion 71.00 (70.70 to 71.70): 569679S.
Peak at 8.43
Time--> 8.40 8.42 8.44 8.46

Spectrum 4 (top-left, lower block): Scan 1192 (8.603 min): 20SVOC.D (-1179) (-)
Res, m/z--> peaks: 39, 50, 63, 71, 79, 89, 98, 115, 126, 134, 142, 150, 160

Spectrum 5: Scan 1193 (8.609 min): 569679S.D
Raw, m/z--> peaks: 39, 50, 63, 71, 89, 102, 115, 126, 142

Spectrum 6: Scan 1193 (8.609 min): 569679S.D (-1181) (-)
Sub, m/z--> peaks: 39, 50, 63, 71, 89, 102, 115, 126, 142

#30
2-Methyl naphthalene
Concen: 0.18 ug m
RT: 8.61 min   Scan# 1193
Delta R.T.   0.01 min
Lab File: 569679S.D
Acq: 27 Jun 2008   6:30 pm

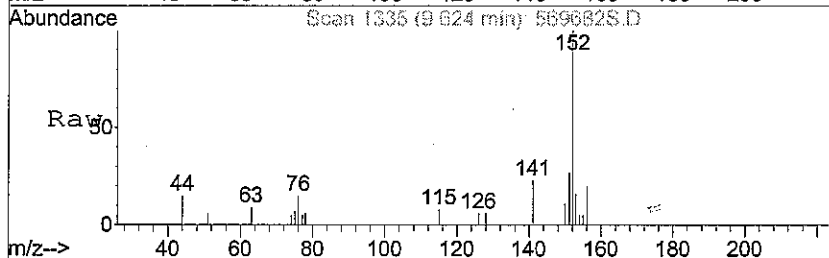| Tgt Ion:142	Resp:		62380
Ion	Ratio	Lower	Upper
142	100		
141	83.4	69.2	103.8
115	31.4	29.8	44.8

Abundance Ion 141.95 (141.65 to 142.65): 569679
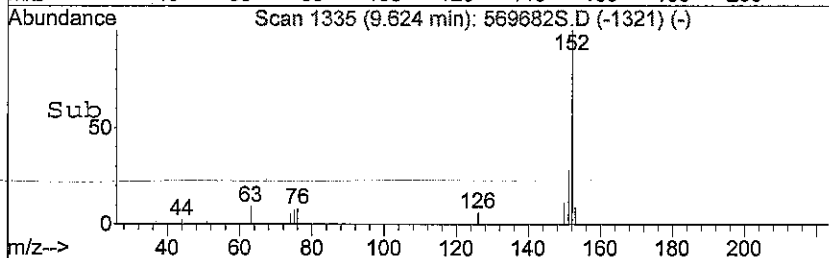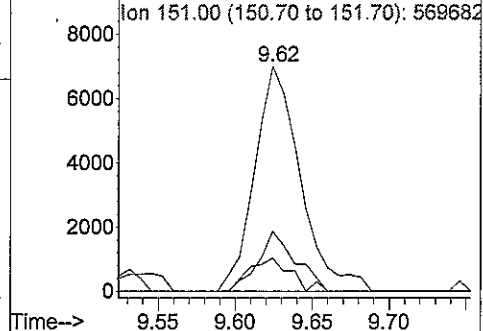Ion 140.95 (140.65 to 141.65): 569679
Ion 114.95 (114.65 to 115.65): 569679
Peak at 8.61
Time--> 8.55 8.60 8.65 8.70
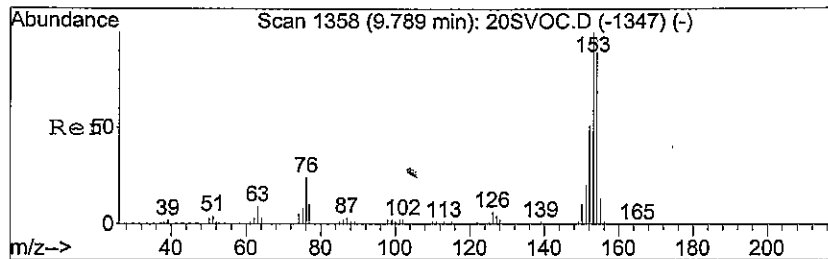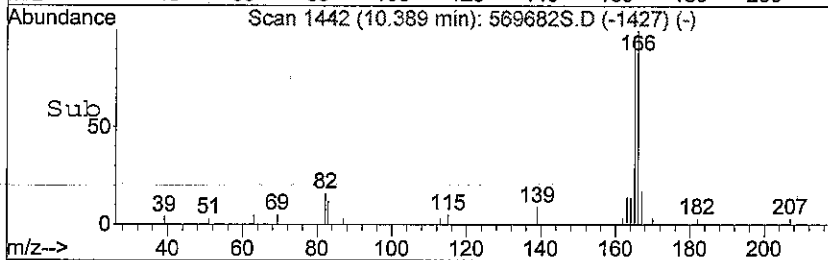
#31
Acenaphthylene
Concen: 0.03 ug m
RT: 9.60 min   Scan# 1332
Delta R.T.   0.00 min
Lab File: 569679S.D
Acq: 27 Jun 2008   6:30 pm

Tgt Ion:152 Resp: 20485

Ion	Ratio	Lower	Upper
152	100		
76	16.9	12.6	18.8
151	21.9	21.7	32.5

#32
Pentadecane
Concen: 0.01 ug m
RT: 9.62 min   Scan# 1334
Delta R.T.   -0.00 min
Lab File: 569679S.D
Acq: 27 Jun 2008   6:30 pm

Tgt Ion: 57 Resp: 1396

Ion	Ratio	Lower	Upper
57	100		
43	121.1	57.7	86.5#
71	78.6	58.2	87.2

#33
Acenaphthene
Concen: 0.28 ug m
RT: 9.79 min   Scan# 1358
Delta R.T.   -0.00 min
Lab File: 569679S.D
Acq: 27 Jun 2008   6:30 pm
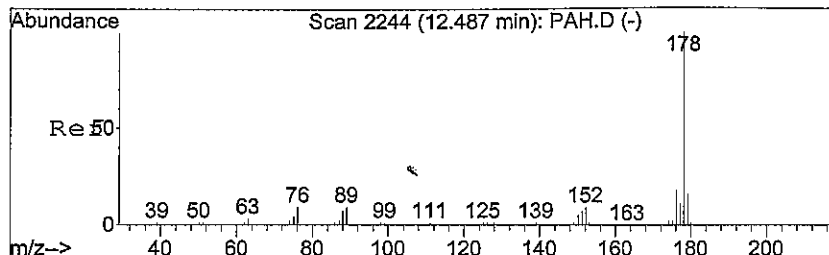
Tgt Ion:153 Resp: 99274
Ion   Ratio   Lower   Upper
153   100
154   93.1   78.6   118.0
152   46.6   42.4   63.6

#34
Fluorene
Concen: 0.23 ug m
RT: 10.36 min   Scan# 1438
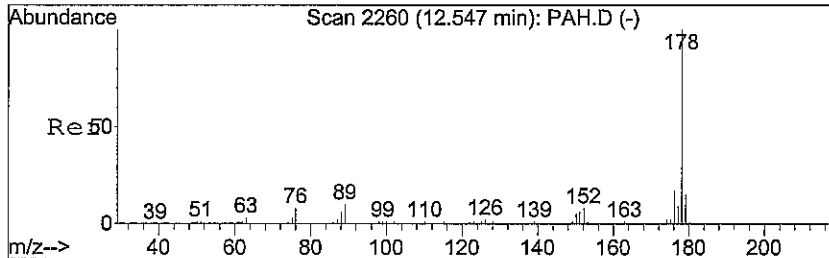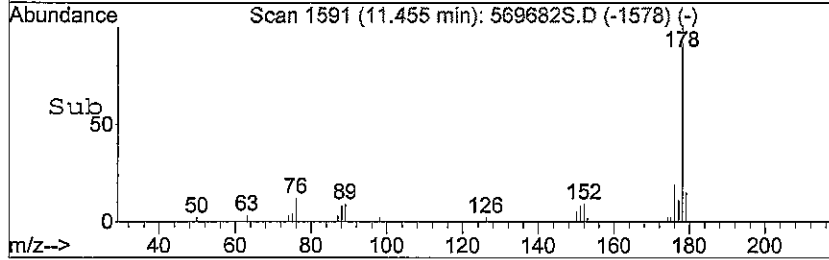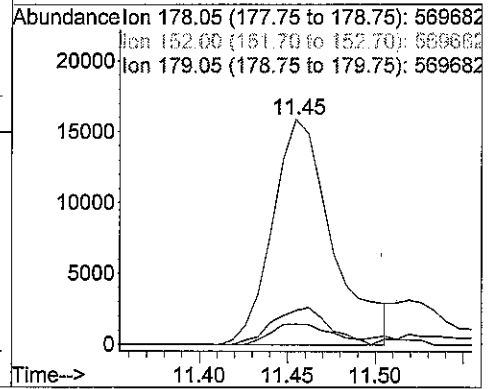Delta R.T.   -0.00 min
Lab File: 569679S.D
Acq: 27 Jun 2008   6:30 pm

Tgt Ion:166 Resp: 96771
Ion   Ratio   Lower   Upper
166   100
165   86.3   73.4   110.2
 82   23.0   13.8   20.8#

#35
Phenanthrene
Concen: 0.88 ug m
RT: 11.43 min   Scan# 1587
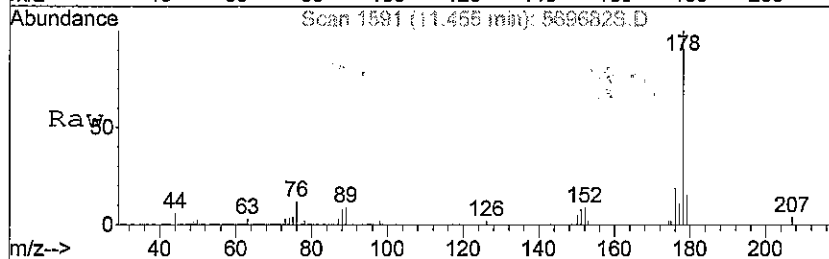Delta R.T.   -0.01 min
Lab File: 569679S.D
Acq: 27 Jun 2008   6:30 pm

Tgt Ion:178 Resp: 374722

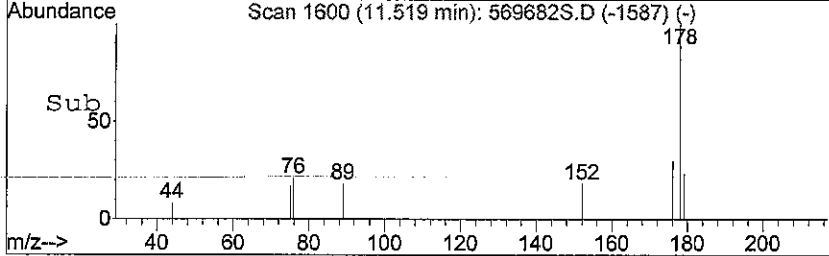| Ion	Ratio	Lower	Upper
178	100		
152	9.7	7.0	10.6
179	16.0	12.9	19.3

#36
Anthracene
Concen: 0.37 ug m
RT: 11.48 min   Scan# 1595
Delta R.T.   -0.02 min
Lab File: 569679S.D
Acq: 27 Jun 2008   6:30 pm

Tgt Ion:178 Resp: 159922

Ion	Ratio	Lower	Upper
178	100		
152	7.9	6.2	9.4
179	13.8	12.1	18.1

#37
Fluoranthene
Concen: 0.83 ug m
RT: 12.74 min   Scan# 1771
Delta R.T.   -0.01 min
Lab File: 569679S.D
Acq: 27 Jun 2008   6:30 pm

Tgt Ion:202 Resp: 352694

Ion	Ratio	Lower	Upper
202	100		
101	12.7	10.0	15.0
203	16.7	13.8	20.6

#38
Pyrene
Concen: 0.42 ug m
RT: 13.00 min   Scan# 1807
Delta R.T.   -0.02 min
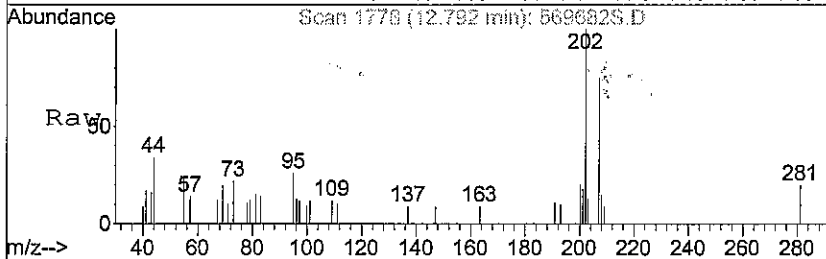Lab File: 569679S.D
Acq: 27 Jun 2008   6:30 pm

Tgt Ion:202 Resp: 180476

Ion	Ratio	Lower	Upper
202	100		
101	16.5	12.5	18.7
203	18.3	12.5	18.7

```
Data File : C:\MSDCHEM\#8\74768EJF\569680S.D        Vial: 13
Acq On    : 27 Jun 2008    3:42 pm                  Operator: DC/DD
Sample    :                                         Inst    : Instrumen
Misc      :                                         Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:52 2008         Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8
```

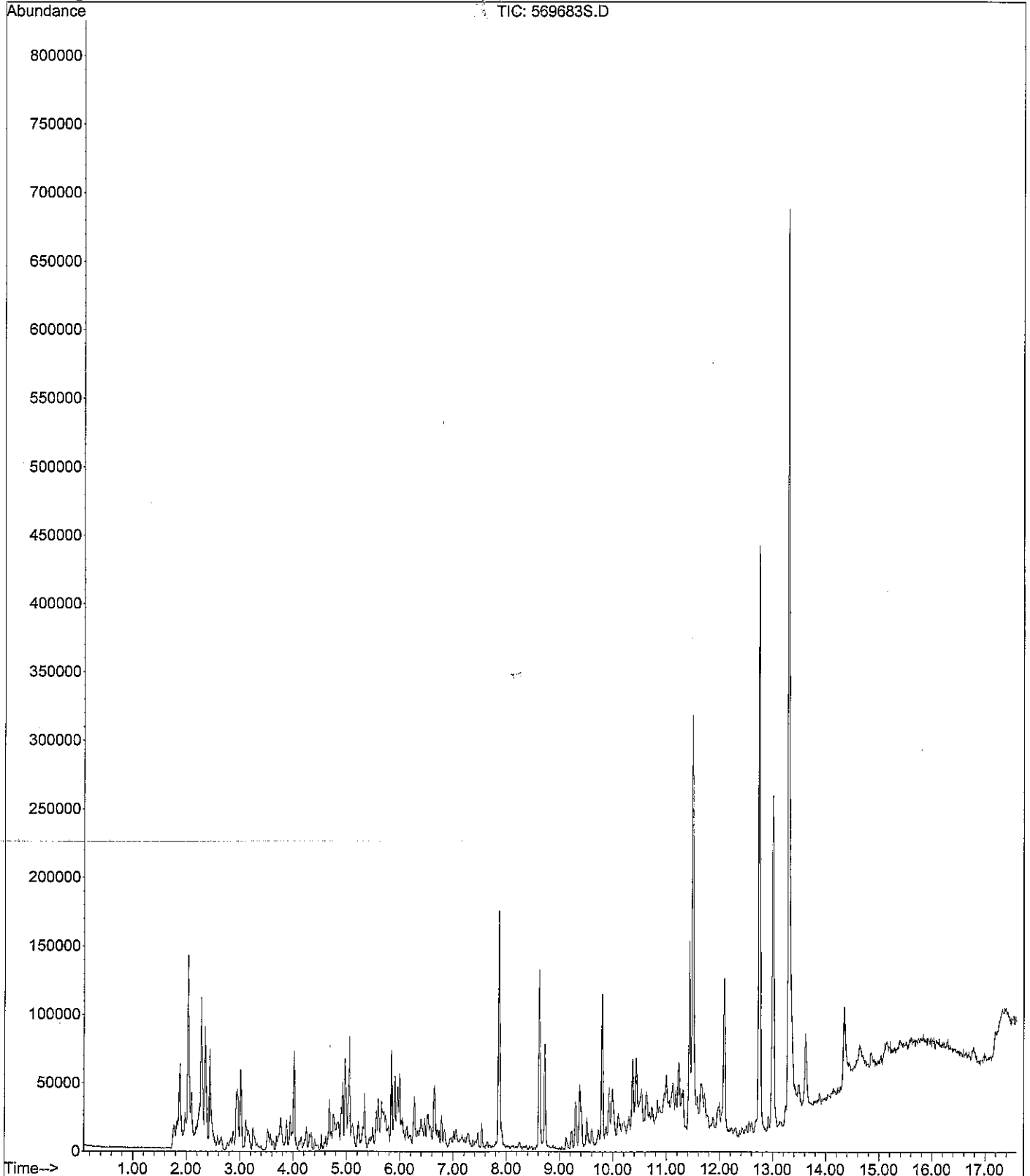| Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)

Target Compounds					Qvalue
1) Methyl t-butyl ether	2.30	73	0	N.D.	
2) 1,1-Dichloroethene	2.10	61	0	N.D.	
3) trans-1,2-Dichloroethene	2.30	61	0	·N.D.	
4) 1,1-Dichloroethane	2.37	63	0	N.D.	
5) cis-1,2-Dichloroethene	2.52	61	0	N.D.	
6) Chloroform	2.64	83	0	N.D.	
7) 1,1,1-Trichloroethane	2.79	97	0	N.D.	
8) 1,2-Dichloroethane	2.87	62	0	N.D.	
9) Benzene	2.92	78	0	N.D.	
10) Carbon tetrachloride	2.92	117	0	N.D.	
11) Trichloroethene	3.28	95	0	N.D.	
12) 1,1,2- Trichloroethane	4.13	97	0	N.D.	
13) Toluene	3.98	91	0	N.D.	
14) Octane	4.29	43	0	N.D.	
15) Tetrachloroethene	4.40	166	0	N.D.	
16) Chlorobenzene	4.86	112	0	N.D.	
17) 1,1,1,2- Tetrachloroethane	4.93	131	0	N.D.	
18) Ethylbenzene	4.99	91	0	N.D.	
19) m,p-Xylene	5.08	91	0	N.D.	
20) o-Xylene	5.32	91	0	N.D.	
21) 1,1,2,2-Tetrachloroethane	5.60	83	0	N.D.	
22) 1,3,5-Trimethylbenzene	6.03	105	0	N.D.	
23) 1,2,4-Trimethylbenzene	6.26	105	0	N.D.	
24) 1,3-Dichlorobenzene	6.39	146	0	N.D.	
25) 1,4-Dichlorobenzene	6.47	146	0	N.D.	
26) 1,2-Dichlorobenzene	6.63	146	0	N.D.	
27) Undecane	7.03	57	0	N.D.	
28) Naphthalene	7.84	128	0	N.D.	
29) Tridecane	8.42	57	0	N.D.	
30) 2-Methyl naphthalene	8.60	142	0	N.D.	
31) Acenaphthylene	9.60	152	0	N.D.	
32) Pentadecane	9.62	57	0	N.D.	
33) Acenaphthene	9.82	153	1319m	0.00 ug	#
34) Fluorene	10.36	166	0	N.D.	
35) Phenanthrene	11.44	178	0	N.D.	
36) Anthracene	11.50	178	0	N.D.	
37) Fluoranthene	12.76	202	0	N.D.	
38) Pyrene	12.98	202	1317m	0.00 ug	#

Data File : C:\MSDCHEM\#8\74768EJF\569680S.D   Vial: 13
Acq On   : 27 Jun 2008   3:42 pm   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
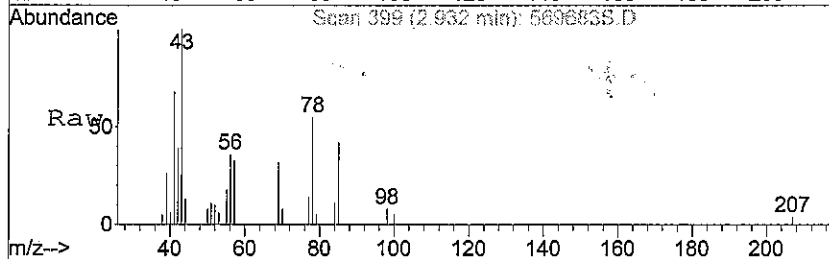Quant Time: Jun 30 14:53 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
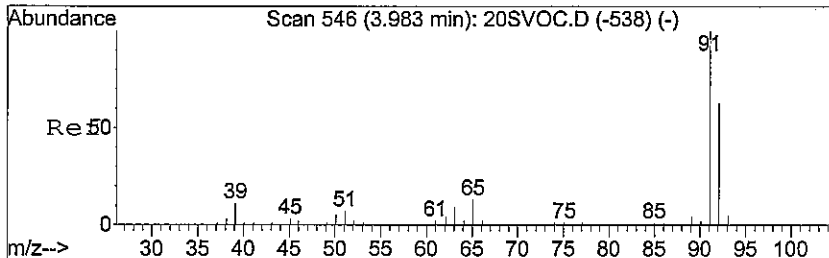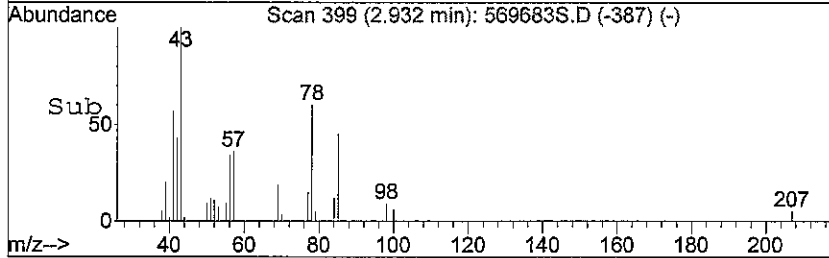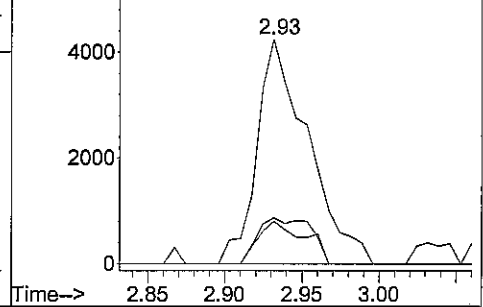Response via : Initial Calibration

Top spectra panel (left):

Abundance — Scan 1358 (9.789 min): 20SVOC.D (-1347) (-)
Re 50 / 153
39 51 63 76 87 102 113 126 139 165
m/z--> 40 60 80 100 120 140 160 180 200

Abundance — Scan 1363 (9.824 min): 569680S.D
Raw 50 / 44 73 154 207
m/z--> 40 60 80 100 120 140 160 180 200

Abundance — Scan 1363 (9.824 min): 569680S.D (-1347) (-)
Sub 50 / 73 154 207
m/z--> 40 60 80 100 120 140 160 180 200

Top right panel:

#33
Acenaphthene
Concen: 0.00 ug m
RT: 9.82 min   Scan# 1363
Delta R.T.   0.04 min
Lab File: 569680S.D
Acq: 27 Jun 2008   3:42 pm

Tgt Ion:153	Resp:		1319
Ion	Ratio	Lower	Upper
153	100		
154	89.8	78.6	118.0
152	36.8	42.4	63.6#

Abundance Ion 153.00 (152.70 to 153.70): 569680
Ion 153.95 (153.65 to 154.65): 569680
Ion 152.00 (151.70 to 152.70): 569680
1000 / 800 / 600 / 400 / 200 / 0
9.82
Time--> 9.78 9.80 9.82 9.84 9.86 9.88

Bottom spectra panel (left):

Abundance — Scan 2684 (14.134 min): PAH.D (-)
Re 50 / 202
73 87 101 150 174 281
m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Abundance — Scan 1805 (12.985 min): 569680S.D
Raw 50 / 44 57 73 96 115 133 147 193 207 230 281
m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Abundance — Scan 1805 (12.985 min): 569680S.D (-1799) (-)
Sub 50 / 40 57 83 96 115 151 202 230 283
m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Bottom right panel:

#38
Pyrene
Concen: 0.00 ug m
RT: 12.98 min   Scan# 1805
Delta R.T.   -0.04 min
Lab File: 569680S.D
Acq: 27 Jun 2008   3:42 pm

Tgt Ion:202	Resp:		1317
Ion	Ratio	Lower	Upper
202	100		
101	0.0	12.5	18.7#
203	0.0	12.5	18.7#

Abundance Ion 202.00 (201.70 to 202.70): 569680
Ion 101.05 (100.75 to 101.75): 569680
Ion 203.00 (202.70 to 203.70): 569680
800 / 600 / 400 / 200 / 0
12.98
Time--> 12.92 12.94 12.96 12.98 13.00 13.02

```
Data File : C:\MSDCHEM\#8\74768EJF\569681S.D          Vial: 40
Acq On    : 28 Jun 2008    4:17 am                    Operator: DC/DD
Sample    :                                           Inst    : Instrumen
Misc      :                                           Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:52 2008        Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8
```

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds						Qvalue
1) Methyl t-butyl ether	2.30	73	0	N.D.		
2) 1,1-Dichloroethene	2.10	61	0	N.D.		
3) trans-1,2-Dichloroethene	2.30	61	0	N.D.		
4) 1,1-Dichloroethane	2.37	63	0	N.D.		
5) cis-1,2-Dichloroethene	2.52	61	0	N.D.		
6) Chloroform	2.64	83	0	N.D.		
7) 1,1,1-Trichloroethane	2.79	97	0	N.D.		
8) 1,2-Dichloroethane	2.87	62	0	N.D.		
9) Benzene	2.94	78	20546m	0.08	ug	#
10) Carbon tetrachloride	2.92	117	0	N.D.		
11) Trichloroethene	3.28	95	0	N.D.		
12) 1,1,2- Trichloroethane	4.13	97	0	N.D.		
13) Toluene	4.00	91	25399m	0.09	ug	#
14) Octane	4.29	43	0	N.D.		
15) Tetrachloroethene	4.40	166	0	N.D.		
16) Chlorobenzene	4.86	112	0	N.D.		
17) 1,1,1,2- Tetrachloroethane	4.93	131	0	N.D.		
18) Ethylbenzene	5.01	91	6579m	0.02	ug	#
19) m,p-Xylene	5.09	91	79129m	0.30	ug	#
20) o-Xylene	5.32	91	130932m	0.48	ug	#
21) 1,1,2,2-Tetrachloroethane	5.62	83	297m	0.00	ug	#
22) 1,3,5-Trimethylbenzene	6.04	105	1104064m	3.76	ug	#
23) 1,2,4-Trimethylbenzene	6.26	105	561314m	1.84	ug	#
24) 1,3-Dichlorobenzene	6.39	146	0	N.D.		
25) 1,4-Dichlorobenzene	6.47	146	0	N.D.		
26) 1,2-Dichlorobenzene	6.63	146	0	N.D.		
27) Undecane	7.03	57	53734m	0.29	ug	#
28) Naphthalene	7.85	128	8702192m	18.90	ug	#
29) Tridecane	8.42	57	66794m	0.33	ug	#
30) 2-Methyl naphthalene	8.61	142	10458983m	30.13	ug	#
31) Acenaphthylene	9.61	152	8712947m	14.77	ug	#
32) Pentadecane	9.60	57	89715m	0.42	ug	#
33) Acenaphthene	9.80	153	5581829m	15.85	ug	#
34) Fluorene	10.38	166	12330713m	28.86	ug	#
35) Phenanthrene	11.45	178	15484613m	36.24	ug	#
36) Anthracene	11.49	178	4066019m	9.52	ug	#
37) Fluoranthene	12.76	202	2422256m	5.67	ug	#
38) Pyrene	13.03	202	1536790m	3.60	ug	#

Data File : C:\MSDCHEM\#8\74768EJF\569681S.D   Vial: 40
Acq On   : 28 Jun 2008   4:17 am   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

#9
Benzene
Concen: 0.08 ug m
RT: 2.94 min   Scan# 400
Delta R.T.   0.01 min
Lab File: 569681S.D
Acq: 28 Jun 2008   4:17 am

Tgt Ion: 78 Resp: 20546
Ion Ratio   Lower   Upper
 78 100
 51   15.1   13.8   20.6
 52   14.5   13.7   20.5

#13
Toluene
Concen: 0.09 ug m
RT: 4.00 min   Scan# 549
Delta R.T.   0.02 min
Lab File: 569681S.D
Acq: 28 Jun 2008   4:17 am

Tgt Ion: 91 Resp: 25399
Ion Ratio   Lower   Upper
 91 100
 65   11.6   11.2   16.8
 92   59.6   52.9   79.3
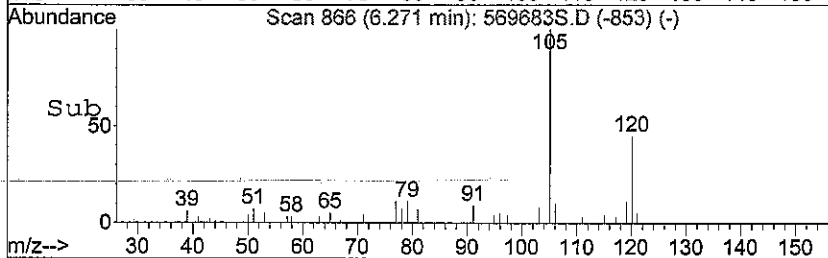
#18
Ethylbenzene
Concen: 0.02 ug m
RT: 5.01 min   Scan# 689
Delta R.T.   0.01 min
Lab File: 569681S.D
Acq: 28 Jun 2008   4:17 am

Tgt Ion: 91	Resp:		6579
Ion	Ratio	Lower	Upper
91	100		
106	29.6	30.8	46.2#
51	9.1	9.4	14.0#

#19
m,p-Xylene
Concen: 0.30 ug m
RT: 5.09 min   Scan# 701
Delta R.T.   0.01 min
Lab File: 569681S.D
Acq: 28 Jun 2008   4:17 am

Tgt Ion: 91	Resp:		79129
Ion	Ratio	Lower	Upper
91	100		
106	48.0	45.1	67.7
105	21.3	20.6	31.0

569681S.D   A4-8.M   Wed Jul 02 10:42:46 2008   RPT1   Page 4

Top spectra panel (o-Xylene):

Abundance — Scan 733 (5.321 min): 20SVOC.D (-723) (-)

Re 50 / 0

m/z--> 30 40 50 60 70 80 90 100 110

Peaks: 91, 106, 39, 44, 51, 60, 65, 77, 84, 97

Abundance — Scan 733 (5.320 min): 569681S.D

Raw 50 / 0

m/z--> 30 40 50 60 70 80 90 100 110

Peaks: 91, 106, 39, 44, 51, 65, 77, 85, 98

Abundance — Scan 733 (5.320 min): 569681S.D (-722) (-)

Sub 50 / 0

m/z--> 30 40 50 60 70 80 90 100 110

Peaks: 91, 106, 39, 44, 51, 65, 77, 85, 98

#20
o-Xylene
Concen: 0.48 ug m
RT: 5.32 min   Scan# 733
Delta R.T.   0.00 min
Lab File: 569681S.D
Acq: 28 Jun 2008   4:17 am

Tgt Ion: 91 Resp: 130932

Ion	Ratio	Lower	Upper
91	100		
106	46.5	43.1	64.7
105	20.0	18.2	27.2

Abundance Ion 90.95 (90.65 to 91.65): 569681S.
Ion 106.05 (105.75 to 106.75): 56968
Ion 105.05 (104.75 to 105.75): 569681

100000

50000

0

5.32

Time--> 5.25 5.30 5.35 5.40 5.45

Bottom spectra panel (1,1,2,2-Tetrachloroethane):

Abundance — Scan 772 (5.599 min): 20SVOC.D (-765) (-)

Re 50 / 0

m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180

Peaks: 83, 37, 47, 61, 70, 95, 105, 117, 131, 168

Abundance — Scan 775 (5.620 min): 569681S.D

Raw 50 / 0

m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180

Peaks: 105, 55, 41, 67, 77, 97, 120

Abundance — Scan 775 (5.620 min): 569681S.D (-761) (-)

Sub 50 / 0

m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180

Peaks: 105, 55, 41, 67, 77, 96, 120

#21
1,1,2,2-Tetrachloroethane
Concen: 0.00 ug m
RT: 5.62 min   Scan# 775
Delta R.T.   0.02 min
Lab File: 569681S.D
Acq: 28 Jun 2008   4:17 am

Tgt Ion: 83 Resp: 297

Ion	Ratio	Lower	Upper
83	100		
85	0.0	52.6	79.0#
95	273.7	13.1	19.7#

Abundance Ion 82.90 (82.60 to 83.60): 569681S.
Ion 84.90 (84.60 to 85.60): 569681S.
Ion 94.95 (94.65 to 95.65): 569681S.

1000

800

600

400

200

0

5.62

Time--> 5.60 5.61 5.62 5.63 5.64 5.65

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#22
1,3,5-Trimethylbenzene
Concen: 3.76 ug m
RT: 6.04 min   Scan# 833
Delta R.T.   0.01 min
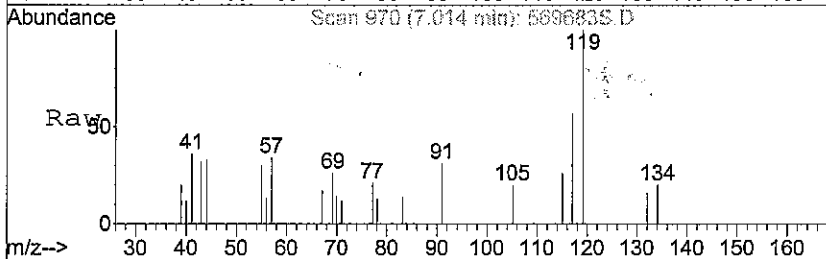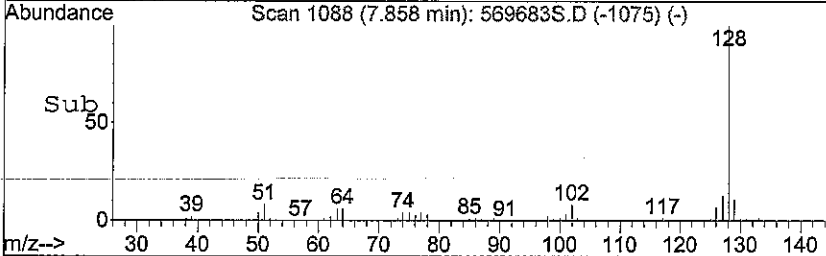Lab File: 569681S.D
Acq: 28 Jun 2008   4:17 am

Tgt Ion:105 Resp: 1104064

Ion	Ratio	Lower	Upper
105	100		
120	49.2	45.1	67.7
77	12.0	12.2	18.4#

#23
1,2,4-Trimethylbenzene
Concen: 1.84 ug m
RT: 6.26 min   Scan# 864
Delta R.T.   0.00 min
Lab File: 569681S.D
Acq: 28 Jun 2008   4:17 am

Tgt Ion:105 Resp: 561314

Ion	Ratio	Lower	Upper
105	100		
120	46.5	42.9	64.3
77	13.2	11.9	17.9

#27
Undecane
Concen: 0.29 ug m
RT: 7.03 min   Scan# 972
Delta R.T.   0.00 min
Lab File: 569681S.D
Acq: 28 Jun 2008   4:17 am

Tgt Ion: 57 Resp: 53734
Ion   Ratio   Lower   Upper
 57   100
 43   69.6   66.6   100.0
 71   45.8   44.7   67.1

#28
Naphthalene
Concen: 18.90 ug m
RT: 7.85 min   Scan# 1087
Delta R.T.   0.01 min
Lab File: 569681S.D
Acq: 28 Jun 2008   4:17 am

Tgt Ion:128 Resp: 8702192
Ion   Ratio   Lower   Upper
128   100
102   11.3   10.1   15.1
127   15.6   14.2   21.4

#29
Tridecane
Concen: 0.33 ug m
RT: 8.42 min   Scan# 1167
Delta R.T.   0.01 min
Lab File: 569681S.D
Acq: 28 Jun 2008   4:17 am

Tgt Ion: 57 Resp: 66794
Ion   Ratio   Lower   Upper
 57   100
 43   59.8   61.8   92.8#
 71   53.9   54.4   81.6#

#30
2-Methyl naphthalene
Concen: 30.13 ug m
RT: 8.61 min   Scan# 1193
Delta R.T.   0.01 min
Lab File: 569681S.D
Acq: 28 Jun 2008   4:17 am

Tgt Ion:142 Resp:10458983
Ion   Ratio   Lower   Upper
142   100
141   87.5   69.2   103.8
115   41.7   29.8   44.8

#31
Acenaphthylene
Concen: 14.77 ug m
RT: 9.61 min Scan# 1333
Delta R.T. 0.01 min
Lab File: 569681S.D
Acq: 28 Jun 2008 4:17 am

Tgt Ion:152 Resp: 8712947

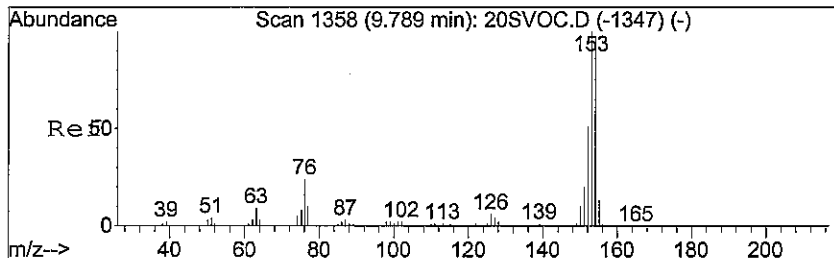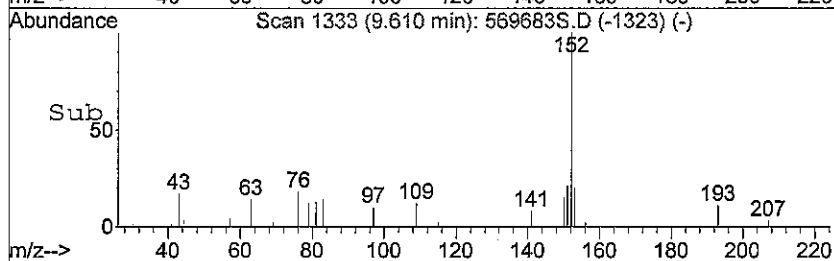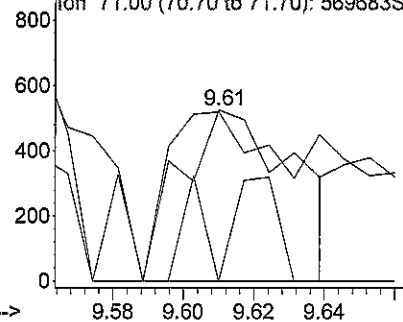| Ion	Ratio	Lower	Upper
152	100		
76	15.0	12.6	18.8
151	22.5	21.7	32.5

#32
Pentadecane
Concen: 0.42 ug m
RT: 9.60 min Scan# 1331
Delta R.T. -0.02 min
Lab File: 569681S.D
Acq: 28 Jun 2008 4:17 am

Tgt Ion: 57 Resp: 89715

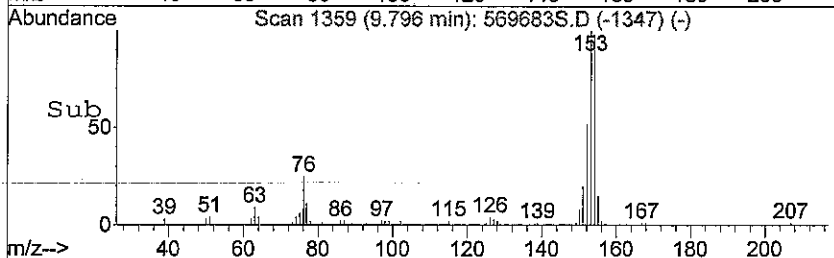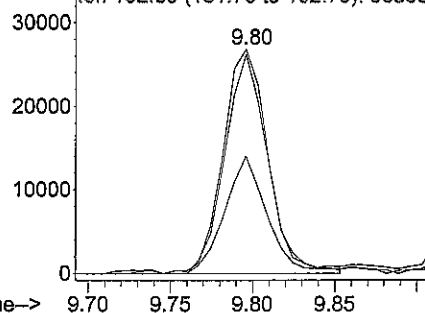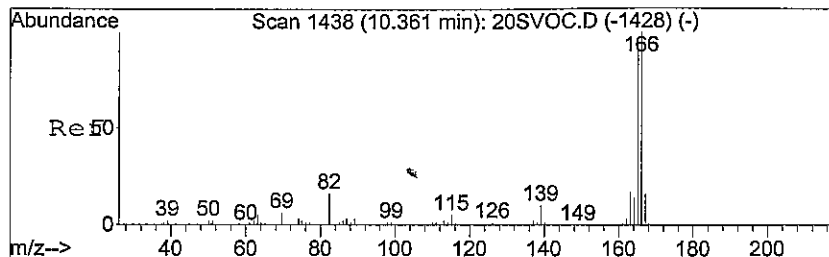| Ion	Ratio	Lower	Upper
57	100		
43	0.0	57.7	86.5#
71	0.0	58.2	87.2#

#33
Acenaphthene
Concen: 15.85 ug m
RT: 9.80 min   Scan# 1359
Delta R.T.   0.01 min
Lab File: 569681S.D
Acq: 28 Jun 2008   4:17 am

Tgt Ion:153 Resp: 5581829
Ion   Ratio   Lower   Upper
153   100
154   94.6   78.6   118.0
152   48.6   42.4   63.6

#34
Fluorene
Concen: 28.86 ug m
RT: 10.38 min   Scan# 1440
Delta R.T.   0.01 min
Lab File: 569681S.D
Acq: 28 Jun 2008   4:17 am

Tgt Ion:166 Resp:12330713
Ion   Ratio   Lower   Upper
166   100
165   86.5   73.4   110.2
 82   33.7   13.8   20.8#

#35
Phenanthrene
Concen: 36.24 ug m
RT: 11.45 min Scan# 1590
Delta R.T.   0.01 min
Lab File: 569681S.D
Acq: 28 Jun 2008   4:17 am

Tgt Ion:178 Resp:15484613

Ion	Ratio	Lower	Upper
178	100		
152	16.2	7.0	10.6#
179	24.2	12.9	19.3#

#36
Anthracene
Concen: 9.52 ug m
RT: 11.49 min Scan# 1596
Delta R.T.   -0.01 min
Lab File: 569681S.D
Acq: 28 Jun 2008   4:17 am

Tgt Ion:178 Resp: 4066019

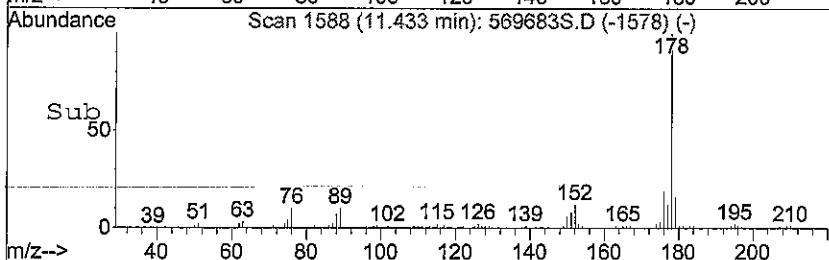| Ion	Ratio	Lower	Upper
178	100		
152	8.1	6.2	9.4
179	17.2	12.1	18.1

#37
Fluoranthene
Concen: 5.67 ug m
RT: 12.76 min   Scan# 1774
Delta R.T.   0.01 min
Lab File: 569681S.D
Acq: 28 Jun 2008   4:17 am

Tgt Ion:202 Resp: 2422256

Ion	Ratio	Lower	Upper
202	100		
101	13.1	10.0	15.0
203	17.0	13.8	20.6

#38
Pyrene
Concen: 3.60 ug m
RT: 13.03 min   Scan# 1811
Delta R.T.   0.01 min
Lab File: 569681S.D
Acq: 28 Jun 2008   4:17 am

Tgt Ion:202 Resp: 1536790

Ion	Ratio	Lower	Upper
202	100		
101	15.7	12.5	18.7
203	18.4	12.5	18.7

```
Data File : C:\MSDCHEM\#8\74768EJF\569682S.D          Vial: 39
Acq On    : 28 Jun 2008   3:49 am                     Operator: DC/DD
Sample    :                                           Inst    : Instrumen
Misc      :                                           Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:53 2008          Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8
```

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

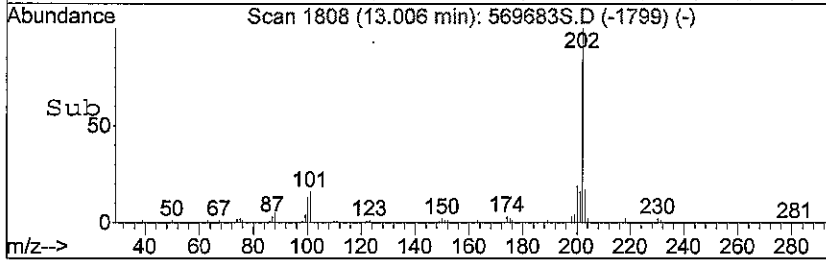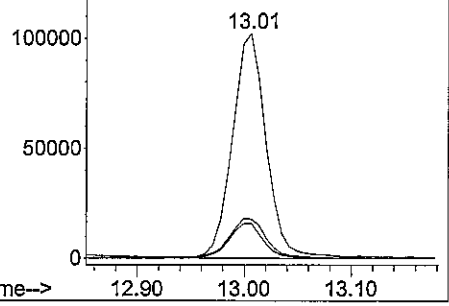| Target Compounds						Qvalue
1) Methyl t-butyl ether	2.30	73	0	N.D.		
2) 1,1-Dichloroethene	2.10	61	0	N.D.		
3) trans-1,2-Dichloroethene	2.30	61	0	N.D.		
4) 1,1-Dichloroethane	2.37	63	0	N.D.		
5) cis-1,2-Dichloroethene	2.52	61	0	N.D.		
6) Chloroform	2.64	83	0	N.D.		
7) 1,1,1-Trichloroethane	2.79	97	0	N.D.		
8) 1,2-Dichloroethane	2.87	62	0	N.D.		
9) Benzene	2.94	78	6692m	0.03	ug	#
10) Carbon tetrachloride	2.92	117	0	N.D.		
11) Trichloroethene	3.28	95	0	N.D.		
12) 1,1,2- Trichloroethane	4.13	97	0	N.D.		
13) Toluene	3.98	91	0	N.D.		
14) Octane	4.29	43	0	N.D.		
15) Tetrachloroethene	4.40	166	0	N.D.		
16) Chlorobenzene	4.86	112	0	N.D.		
17) 1,1,1,2- Tetrachloroethane	4.93	131	0	N.D.		
18) Ethylbenzene	4.99	91	0	N.D.		
19) m,p-Xylene	5.08	91	0	N.D.		
20) o-Xylene	5.32	91	0	N.D.		
21) 1,1,2,2-Tetrachloroethane	5.60	83	0	N.D.		
22) 1,3,5-Trimethylbenzene	6.03	105	0	N.D.		
23) 1,2,4-Trimethylbenzene	6.26	105	0	N.D.		
24) 1,3-Dichlorobenzene	6.39	146	0	N.D.		
25) 1,4-Dichlorobenzene	6.47	146	0	N.D.		
26) 1,2-Dichlorobenzene	6.63	146	0	N.D.		
27) Undecane	7.03	57	0	N.D.		
28) Naphthalene	7.89	128	86842m	0.19	ug	#
29) Tridecane	8.42	57	0	N.D.		
30) 2-Methyl naphthalene	8.64	142	28495m	0.08	ug	#
31) Acenaphthylene	9.62	152	14452m	0.02	ug	#
32) Pentadecane	9.62	57	0	N.D.		
33) Acenaphthene	9.81	153	12303m	0.03	ug	#
34) Fluorene	10.39	166	24963m	0.06	ug	#
35) Phenanthrene	11.45	178	37521m	0.09	ug	#
36) Anthracene	11.52	178	7224m	0.02	ug	#
37) Fluoranthene	12.79	202	8745m	0.02	ug	#
38) Pyrene	13.06	202	7158m	0.02	ug	#

Data File : C:\MSDCHEM\#8\74768EJF\569682S.D   Vial: 39
Acq On   : 28 Jun 2008   3:49 am   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
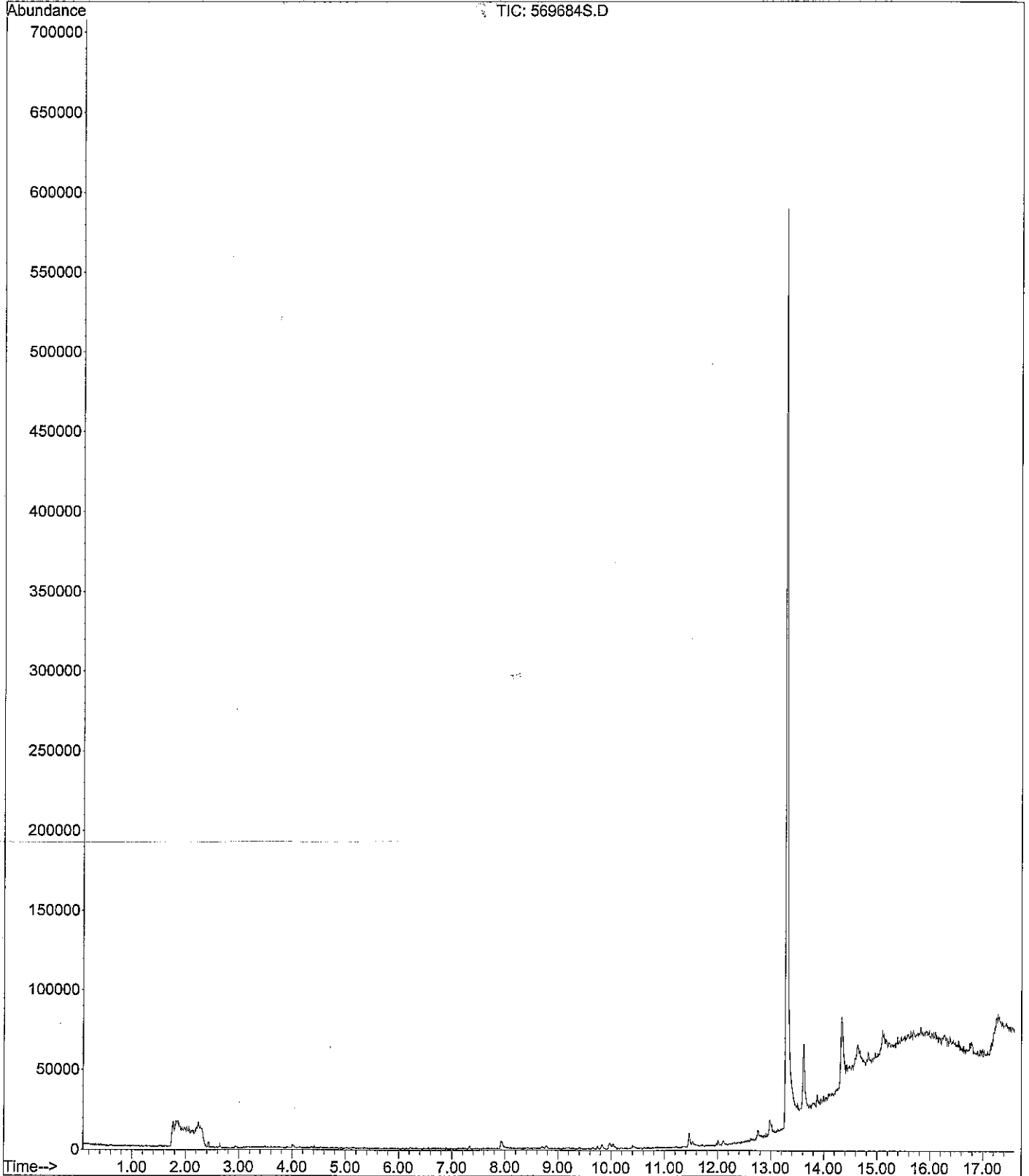Response via : Initial Calibration

#9
Benzene
Concen: 0.03 ug m
RT: 2.94 min   Scan# 400
Delta R.T.   0.01 min
Lab File: 569682S.D
Acq: 28 Jun 2008   3:49 am

Tgt Ion: 78 Resp: 6692

Ion	Ratio	Lower	Upper
78	100		
51	15.0	13.8	20.6
52	9.9	13.7	20.5#

Abundance Ion 77.95 (77.65 to 78.65): 569682S.
Ion 50.95 (50.65 to 51.65): 569682S.
Ion 52.05 (51.75 to 52.75): 569682S.

#28
Naphthalene
Concen: 0.19 ug m
RT: 7.89 min   Scan# 1092
Delta R.T.   0.04 min
Lab File: 569682S.D
Acq: 28 Jun 2008   3:49 am

Tgt Ion:128 Resp: 86842

Ion	Ratio	Lower	Upper
128	100		
102	0.0	10.1	15.1#
127	0.0	14.2	21.4#

Abundance Ion 127.95 (127.65 to 128.65): 569682
Ion 101.95 (101.65 to 102.65): 569682
Ion 127.00 (126.70 to 127.70): 569682

#30
2-Methyl naphthalene
Concen: 0.08 ug m
RT: 8.64 min   Scan# 1198
Delta R.T.   0.04 min
Lab File: 569682S.D
Acq: 28 Jun 2008   3:49 am

Tgt Ion:142	Resp:	28495	
Ion	Ratio	Lower	Upper
142	100		
141	63.7	69.2	103.8#
115	23.4	29.8	44.8#

#31
Acenaphthylene
Concen: 0.02 ug m
RT: 9.62 min   Scan# 1335
Delta R.T.   0.02 min
Lab File: 569682S.D
Acq: 28 Jun 2008   3:49 am

Tgt Ion:152	Resp:	14452	
Ion	Ratio	Lower	Upper
152	100		
76	12.8	12.6	18.8
151	21.8	21.7	32.5

#33
Acenaphthene
Concen: 0.03 ug m
RT: 9.81 min   Scan# 1361
Delta R.T.   0.02 min
Lab File: 569682S.D
Acq: 28 Jun 2008   3:49 am

Tgt Ion:153 Resp: 12303
Ion   Ratio   Lower   Upper
153   100
154   91.4   78.6   118.0
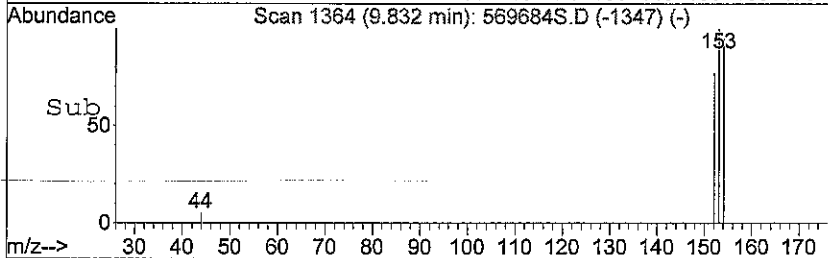152   48.2   42.4   63.6

Abundance Ion 153.00 (152.70 to 153.70): 569682
Ion 153.95 (153.65 to 154.65): 569682
Ion 152.00 (151.70 to 152.70): 569682

#34
Fluorene
Concen: 0.06 ug m
RT: 10.39 min   Scan# 1442
Delta R.T.   0.03 min
Lab File: 569682S.D
Acq: 28 Jun 2008   3:49 am

Tgt Ion:166 Resp: 24963
Ion   Ratio   Lower   Upper
166   100
165   83.5   73.4   110.2
82   18.6   13.8   20.8

Abundance Ion 166.00 (165.70 to 166.70): 569682
Ion 166.00 (164.70 to 165.70): 569682
Ion 82.40 (82.10 to 83.10): 569682S.

569682S.D   A4-8.M   Wed Jul 02 10:42:47 2008   RPT1   Page 5

#35 (top panel)

Abundance — Scan 2244 (12.487 min): PAH.D (-)

Re 50 — 178

39 50 63 76 89 99 111 125 139 152 163

m/z--> 40 60 80 100 120 140 160 180 200

Abundance — Scan 1591 (11.455 min): 569682S.D

Raw 50 — 178

44 63 76 89 126 152 207

m/z--> 40 60 80 100 120 140 160 180 200

Abundance — Scan 1591 (11.455 min): 569682S.D (-1578) (-)

Sub 50 — 178

50 63 76 89 126 152

m/z--> 40 60 80 100 120 140 160 180 200

#35
Phenanthrene
Concen: 0.09 ug m
RT: 11.45 min   Scan# 1591
Delta R.T.   0.01 min
Lab File: 569682S.D
Acq: 28 Jun 2008   3:49 am

Tgt Ion:178 Resp: 37521

Ion	Ratio	Lower	Upper
178	100		
152	9.3	7.0	10.6
179	15.3	12.9	19.3

Abundance Ion 178.05 (177.75 to 178.75): 569682
Ion 152.00 (151.70 to 152.70): 569682
20000 Ion 179.05 (178.75 to 179.75): 569682

11.45

15000

10000

5000

0

Time--> 11.40   11.45   11.50

#36 (bottom panel)

Abundance — Scan 2260 (12.547 min): PAH.D (-)

Re 50 — 178

39 51 63 76 89 99 110 126 139 152 163

m/z--> 40 60 80 100 120 140 160 180 200

Abundance — Scan 1600 (11.519 min): 569682S.D

Raw 50 — 178

44 73 89 152 207

m/z--> 40 60 80 100 120 140 160 180 200

Abundance — Scan 1600 (11.519 min): 569682S.D (-1587) (-)

Sub 50 — 178

44 76 89 152

m/z--> 40 60 80 100 120 140 160 180 200

#36
Anthracene
Concen: 0.02 ug m
RT: 11.52 min   Scan# 1600
Delta R.T.   0.01 min
Lab File: 569682S.D
Acq: 28 Jun 2008   3:49 am
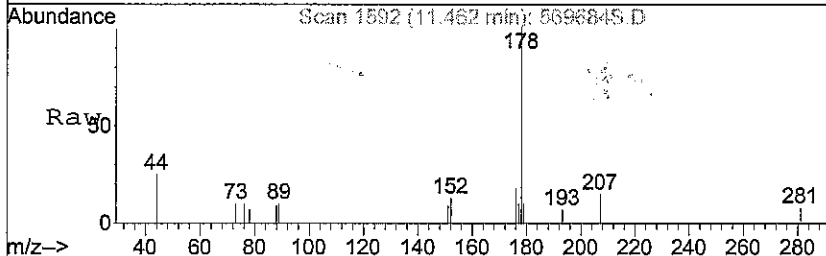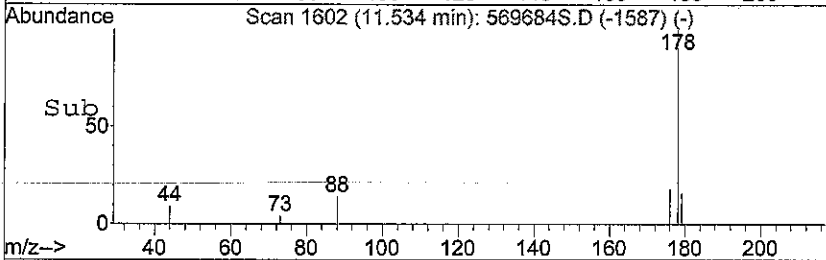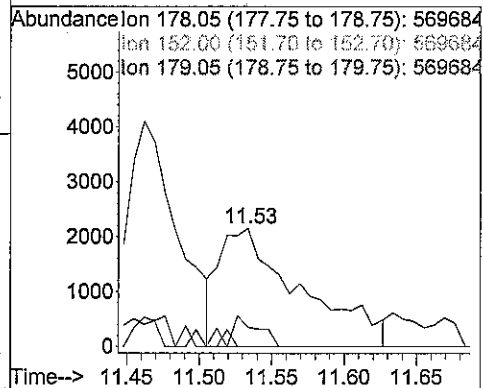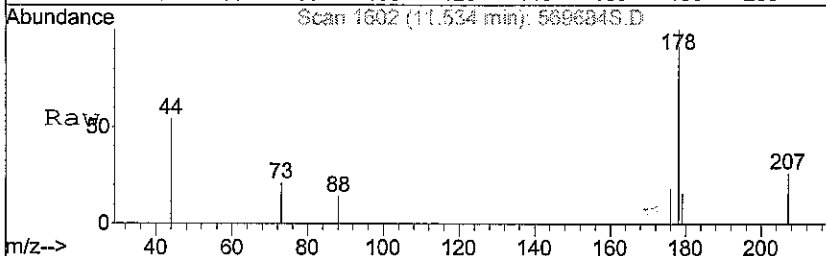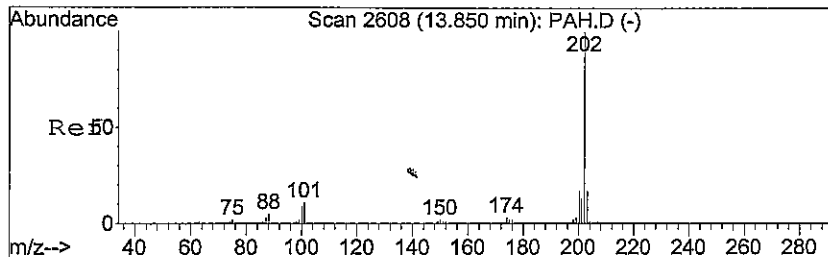
Tgt Ion:178 Resp: 7224

Ion	Ratio	Lower	Upper
178	100		
152	8.4	6.2	9.4
179	5.7	12.1	18.1#

Abundance Ion 178.05 (177.75 to 178.75): 569682
15000 Ion 152.00 (151.70 to 152.70): 569682
Ion 179.05 (178.75 to 179.75): 569682

10000

5000
11.52

0

Time--> 11.48 11.50 11.52 11.54 11.56 11.58

#37
Fluoranthene
Concen: 0.02 ug m
RT: 12.79 min   Scan# 1778
Delta R.T.   0.04 min
Lab File: 569682S.D
Acq: 28 Jun 2008   3:49 am

Tgt Ion:202 Resp: 8745

Ion	Ratio	Lower	Upper
202	100		
101	10.4	10.0	15.0
203	15.2	13.8	20.6

#38
Pyrene
Concen: 0.02 ug m
RT: 13.06 min   Scan# 1815
Delta R.T.   0.04 min
Lab File: 569682S.D
Acq: 28 Jun 2008   3:49 am

Tgt Ion:202 Resp: 7158

Ion	Ratio	Lower	Upper
202	100		
101	12.8	12.5	18.7
203	1.3	12.5	18.7#

```
                    Quantitation Report      (QT Reviewed)

Data File : C:\MSDCHEM\#8\74768EJF\569683S.D          Vial: 14
Acq On    : 27 Jun 2008    4:10 pm                    Operator: DC/DD
Sample    :                                           Inst    : Instrumen
Misc      :                                           Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:53 2008          Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8

   Internal Standards          R.T. QIon  Response   Conc Units Dev(Min)
   -------------------------------------------------------------------------

 Target Compounds                                                    Qvalue
   1) Methyl t-butyl ether     0.00   73        0     N.D. d
   2) 1,1-Dichloroethene       2.10   61        0     N.D.
   3) trans-1,2-Dichloroethene 2.30   61        0     N.D.
   4) 1,1-Dichloroethane       2.37   63        0     N.D.
   5) cis-1,2-Dichloroethene   2.52   61        0     N.D.
   6) Chloroform               2.64   83        0     N.D.
   7) 1,1,1-Trichloroethane    2.79   97        0     N.D.
   8) 1,2-Dichloroethane       2.87   62        0     N.D.
   9) Benzene                  2.93   78     9821m    0.04 ug      #
  10) Carbon tetrachloride     2.92  117        0     N.D.
  11) Trichloroethene          3.28   95        0     N.D.
  12) 1,1,2- Trichloroethane   4.13   97        0     N.D.
  13) Toluene                  4.00   91    14660m    0.05 ug      #
  14) Octane                   4.31   43     3907m    0.02 ug      #
  15) Tetrachloroethene        4.40  166        0     N.D.
  16) Chlorobenzene            4.86  112        0     N.D.
  17) 1,1,1,2- Tetrachloroethane 4.93 131       0     N.D.
  18) Ethylbenzene             5.01   91     2318m    0.01 ug      #
  19) m,p-Xylene               5.11   91     7583m    0.03 ug      #
  20) o-Xylene                 5.33   91     5406m    0.02 ug      #
  21) 1,1,2,2-Tetrachloroethane 0.00  83        0     N.D. d
  22) 1,3,5-Trimethylbenzene   6.05  105     9036m    0.03 ug      #
  23) 1,2,4-Trimethylbenzene   6.27  105    15971m    0.05 ug      #
  24) 1,3-Dichlorobenzene      6.39  146        0     N.D.
  25) 1,4-Dichlorobenzene      6.47  146        0     N.D.
  26) 1,2-Dichlorobenzene      6.63  146        0     N.D.
  27) Undecane                 7.01   57     1924m    0.01 ug      #
  28) Naphthalene              7.86  128   175148m    0.38 ug      #
  29) Tridecane                8.42   57        0     N.D.
  30) 2-Methyl naphthalene     8.62  142    78636m    0.23 ug      #
  31) Acenaphthylene           9.61  152     5423m    0.01 ug      #
  32) Pentadecane              9.61   57     1176m    0.01 ug      #
  33) Acenaphthene             9.80  153    51269m    0.15 ug      #
  34) Fluorene                10.37  166    29669m    0.07 ug      #
  35) Phenanthrene            11.43  178   106453m    0.25 ug      #
  36) Anthracene              11.49  178   272572m    0.64 ug      #
  37) Fluoranthene            12.75  202   412661m    0.97 ug      #
  38) Pyrene                  13.01  202   224536m    0.53 ug      #

--------------------------------------------------------------------------
(#) = qualifier out of range (m) = manual integration (+) = signals summed
569683S.D  A4-8.M      Wed Jul 02 10:36:59 2008      RPT1         Page 1
```
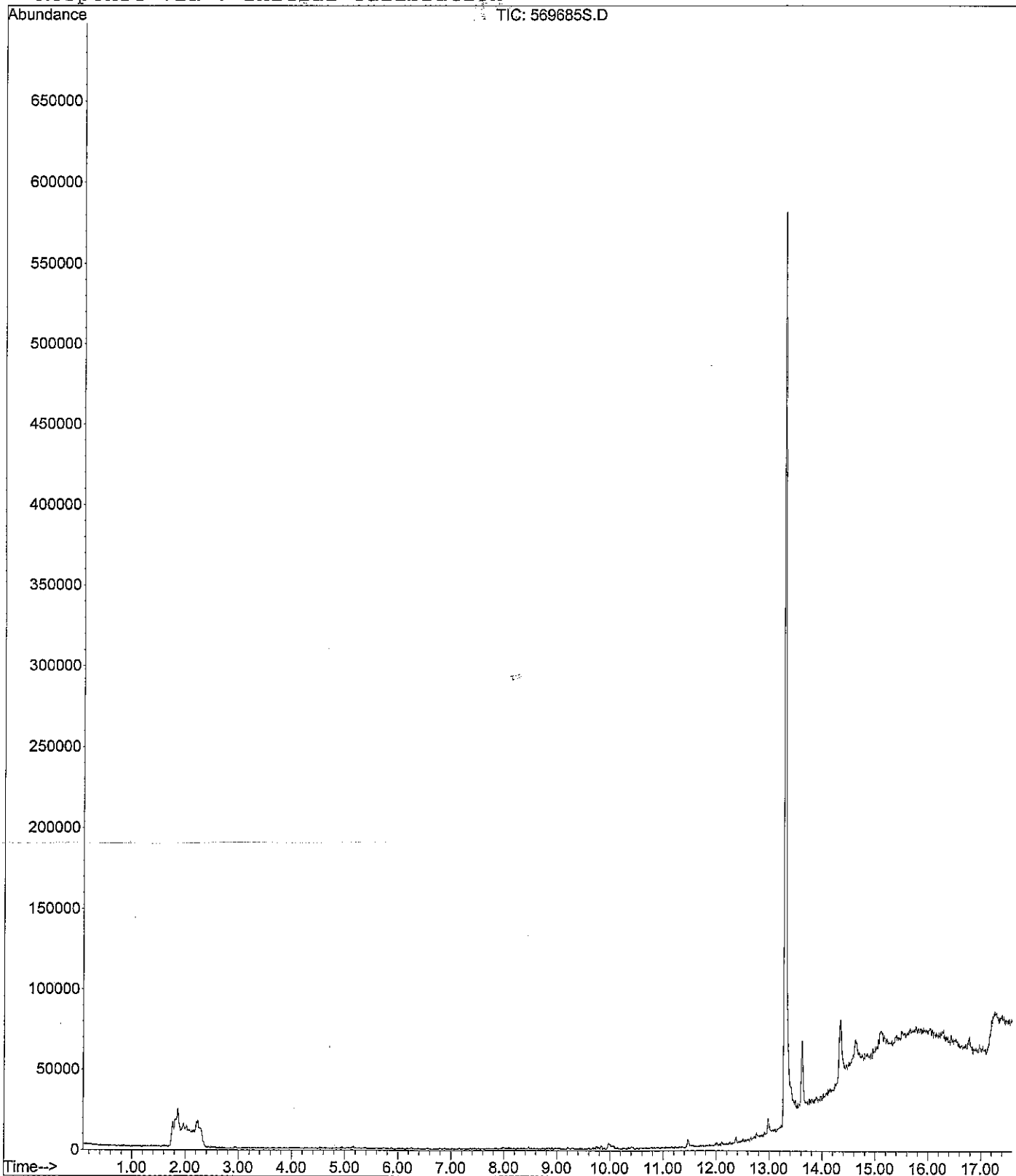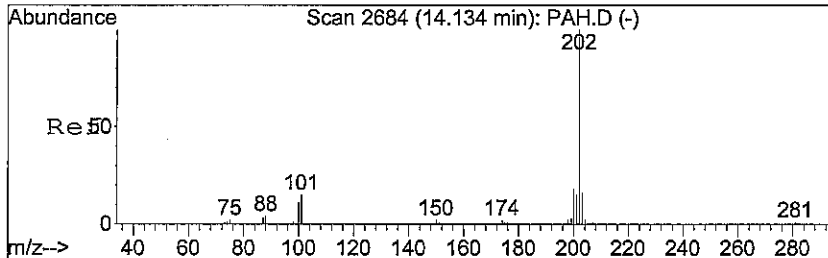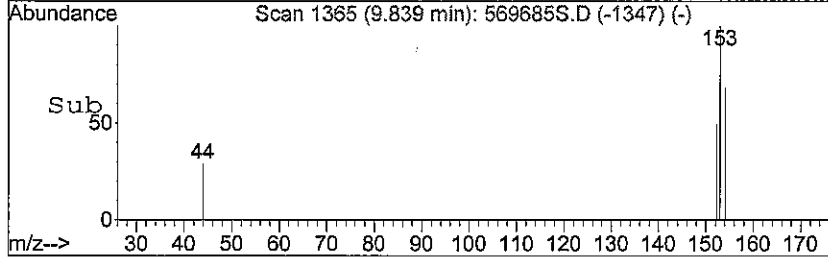
Data File : C:\MSDCHEM\#8\74768EJF\569683S.D   Vial: 14
Acq On   : 27 Jun 2008   4:10 pm   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 15:05 2008   Quant Results File: A4-8.RES
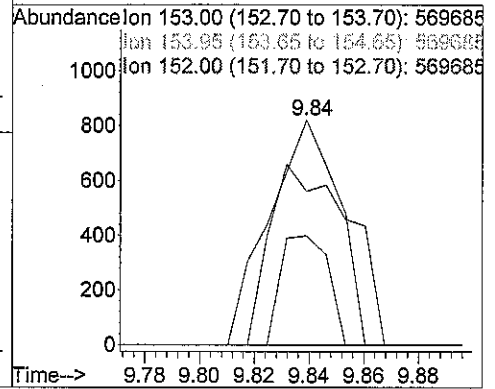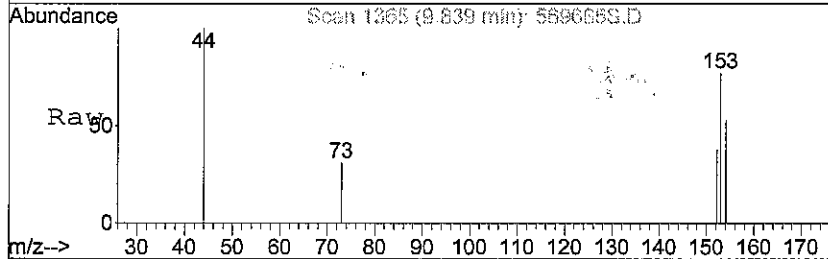
Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
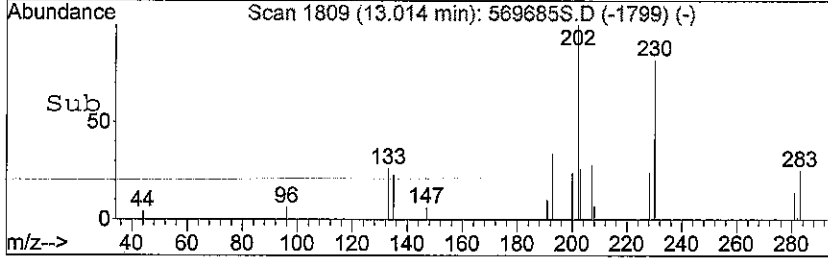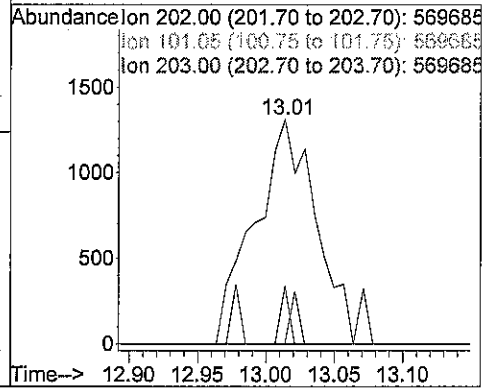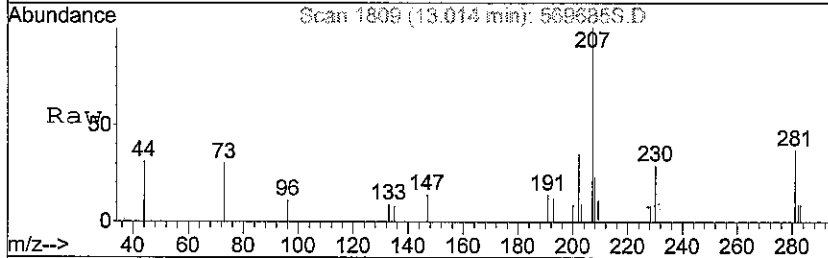Response via : Initial Calibration

#9
Benzene
Concen: 0.04 ug m
RT: 2.93 min   Scan# 399
Delta R.T.   0.01 min
Lab File: 569683S.D
Acq: 27 Jun 2008   4:10 pm

Tgt Ion: 78 Resp: 9821
Ion Ratio   Lower   Upper
 78 100
 51   21.2   13.8   20.6#
 52   17.3   13.7   20.5

#13
Toluene
Concen: 0.05 ug m
RT: 4.00 min   Scan# 549
Delta R.T.   0.02 min
Lab File: 569683S.D
Acq: 27 Jun 2008   4:10 pm

Tgt Ion: 91 Resp: 14660
Ion Ratio   Lower   Upper
 91 100
 65   12.8   11.2   16.8
 92   56.3   52.9   79.3

#14
Octane
Concen: 0.02 ug m
RT: 4.31 min   Scan# 592
Delta R.T.   0.02 min
Lab File: 569683S.D
Acq: 27 Jun 2008   4:10 pm

Tgt Ion: 43 Resp: 3907

Ion	Ratio	Lower	Upper
43	100		
85	35.4	42.1	63.1#
57	38.4	34.5	51.7

#18
Ethylbenzene
Concen: 0.01 ug m
RT: 5.01 min   Scan# 690
Delta R.T.   0.02 min
Lab File: 569683S.D
Acq: 27 Jun 2008   4:10 pm

Tgt Ion: 91 Resp: 2318

Ion	Ratio	Lower	Upper
91	100		
106	16.4	30.8	46.2#
51	0.0	9.4	14.0#

Scan 701 (5.092 min): 20SVOC.D (-695) (-)

Scan 703 (5.105 min): 569683S.D

Scan 703 (5.105 min): 569683S.D (-689) (-)

#19
m,p-Xylene
Concen: 0.03 ug m
RT: 5.11 min   Scan# 703
Delta R.T.   0.02 min
Lab File: 569683S.D
Acq: 27 Jun 2008   4:10 pm

Tgt Ion: 91	Resp:		7583
Ion	Ratio	Lower	Upper
91	100		
106	35.3	45.1	67.7#
105	18.7	20.6	31.0#

Abundance Ion 90.95 (90.65 to 91.65): 569683S.I
Ion 106.05 (105.75 to 106.75): 569683
Ion 105.05 (104.75 to 105.75): 569683

Scan 733 (5.321 min): 20SVOC.D (-723) (-)

Scan 735 (5.334 min): 569683S.D

Scan 735 (5.334 min): 569683S.D (-722) (-)

#20
o-Xylene
Concen: 0.02 ug m
RT: 5.33 min   Scan# 735
Delta R.T.   0.01 min
Lab File: 569683S.D
Acq: 27 Jun 2008   4:10 pm

Tgt Ion: 91	Resp:		5406
Ion	Ratio	Lower	Upper
91	100		
106	49.3	43.1	64.7
105	15.6	18.2	27.2#

Abundance Ion 90.95 (90.65 to 91.65): 569683S.I
Ion 106.05 (105.75 to 106.75): 569683
Ion 105.05 (104.75 to 105.75): 569683

#22 (top panel set)

Scan 833 (6.036 min): 20SVOC.D (-826) (-)

Abundance / Re 50

105, 120, 39, 51, 58, 65, 77, 84, 91, 98, 113, 146

Scan 835 (6.049 min): 569683S.D

Abundance / Raw

105, 120, 41, 55, 69, 77, 91

Scan 835 (6.049 min): 569683S.D (-821) (-)

Abundance / Sub 50

105, 120, 40, 51, 65, 77, 91

#22
1,3,5-Trimethylbenzene
Concen: 0.03 ug m
RT: 6.05 min   Scan# 835
Delta R.T.   0.02 min
Lab File: 569683S.D
Acq: 27 Jun 2008   4:10 pm

Tgt Ion:105	Resp:		9036
Ion	Ratio	Lower	Upper
105	100		
120	46.3	45.1	67.7
77	20.0	12.2	18.4#

Abundance Ion 105.05 (104.75 to 105.75): 569683
8000 Ion 120.05 (119.75 to 120.75): 569683
Ion 76.95 (76.65 to 77.65): 569683S.D
6.05

#23 (bottom panel set)

Scan 865 (6.264 min): 20SVOC.D (-853) (-)

Abundance / Re 50

105, 120, 39, 51, 58, 65, 77, 84, 91, 98, 113, 146

Scan 866 (6.271 min): 569683S.D

Abundance / Raw

105, 120, 41, 55, 69, 77, 91

Scan 866 (6.271 min): 569683S.D (-853) (-)

Abundance / Sub 50

105, 120, 39, 51, 58, 65, 79, 91

#23
1,2,4-Trimethylbenzene
Concen: 0.05 ug m
RT: 6.27 min   Scan# 866
Delta R.T.   0.01 min
Lab File: 569683S.D
Acq: 27 Jun 2008   4:10 pm

Tgt Ion:105	Resp:		15971
Ion	Ratio	Lower	Upper
105	100		
120	43.6	42.9	64.3
77	16.5	11.9	17.9

Abundance Ion 105.05 (104.75 to 105.75): 569683
Ion 120.05 (119.75 to 120.75): 569683
Ion 76.95 (76.65 to 77.65): 569683S.D
6.27

#27
Undecane
Concen: 0.01 ug m
RT: 7.01 min   Scan# 970
Delta R.T.   -0.01 min
Lab File: 569683S.D
Acq: 27 Jun 2008   4:10 pm

Tgt Ion: 57 Resp: 1924
Ion   Ratio   Lower   Upper
 57   100
 43   61.9   66.6   100.0#
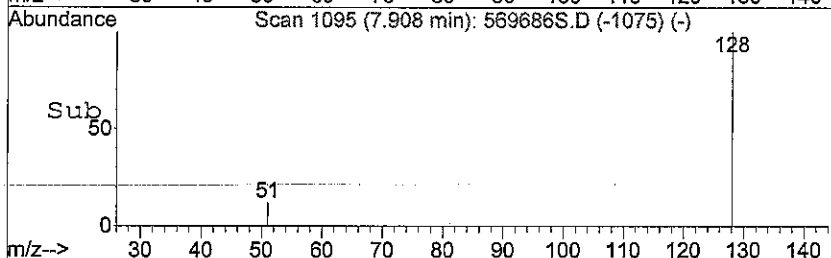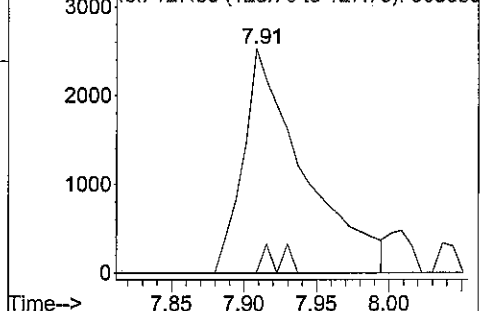 71   43.6   44.7   67.1#

#28
Naphthalene
Concen: 0.38 ug m
RT: 7.86 min   Scan# 1088
Delta R.T.   0.01 min
Lab File: 569683S.D
Acq: 27 Jun 2008   4:10 pm

Tgt Ion:128 Resp: 175148
Ion   Ratio   Lower   Upper
128   100
102   7.7   10.1   15.1#
127   11.8   14.2   21.4#

569683S.D   A4-8.M   Wed Jul 02 10:42:49 2008   RPT1   Page 7

#30
2-Methyl naphthalene
Concen: 0.23 ug m
RT: 8.62 min   Scan# 1194
Delta R.T.   0.01 min
Lab File: 569683S.D
Acq: 27 Jun 2008   4:10 pm

Tgt Ion:142 Resp: 78636
Ion   Ratio   Lower   Upper
142   100
141   80.4   69.2   103.8
115   30.4   29.8   44.8

#31
Acenaphthylene
Concen: 0.01 ug m
RT: 9.61 min   Scan# 1333
Delta R.T.   0.01 min
Lab File: 569683S.D
Acq: 27 Jun 2008   4:10 pm

Tgt Ion:152 Resp: 5423
Ion   Ratio   Lower   Upper
152   100
 76   13.9   12.6   18.8
151   22.9   21.7   32.5

#32
Pentadecane
Concen: 0.01 ug m
RT: 9.61 min   Scan# 1333
Delta R.T.   −0.01 min
Lab File: 569683S.D
Acq: 27 Jun 2008   4:10 pm

Tgt Ion: 57	Resp:		1176
Ion	Ratio	Lower	Upper
57	100		
43	105.8	57.7	86.5#
71	34.7	58.2	87.2#

#33
Acenaphthene
Concen: 0.15 ug m
RT: 9.80 min   Scan# 1359
Delta R.T.   0.01 min
Lab File: 569683S.D
Acq: 27 Jun 2008   4:10 pm

Tgt Ion:153	Resp:		51269
Ion	Ratio	Lower	Upper
153	100		
154	91.2	78.6	118.0
152	48.2	42.4	63.6

#34
Fluorene
Concen: 0.07 ug m
RT: 10.37 min   Scan# 1439
Delta R.T.   0.01 min
Lab File: 569683S.D
Acq: 27 Jun 2008   4:10 pm

Tgt Ion:166 Resp: 29669
Ion   Ratio   Lower   Upper
166   100
165   88.2   73.4   110.2
 82   24.3   13.8   20.8#

#35
Phenanthrene
Concen: 0.25 ug m
RT: 11.43 min   Scan# 1588
Delta R.T.   -0.01 min
Lab File: 569683S.D
Acq: 27 Jun 2008   4:10 pm

Tgt Ion:178 Resp: 106453
Ion   Ratio   Lower   Upper
178   100
152   11.8   7.0   10.6#
179   16.2   12.9   19.3

#36
Anthracene
Concen: 0.64 ug m
RT: 11.49 min   Scan# 1596
Delta R.T.   -0.01 min
Lab File: 569683S.D
Acq: 27 Jun 2008   4:10 pm

Tgt Ion:178	Resp:	272572
Ion	Ratio	Lower	Upper
178	100		
152	7.4	6.2	9.4
179	13.2	12.1	18.1

#37
Fluóranthene
Concen: 0.97 ug m
RT: 12.75 min   Scan# 1772
Delta R.T.   -0.01 min
Lab File: 569683S.D
Acq: 27 Jun 2008   4:10 pm

Tgt Ion:202	Resp:	412661
Ion	Ratio	Lower	Upper
202	100		
101	12.3	10.0	15.0
203	16.2	13.8	20.6

Scan 2684 (14.134 min): PAH.D (-)

Abundance — Res 50 — 202 — 101 — 73 87 — 150 174 — 281

m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Scan 1808 (13.006 min): 569683S.D

Abundance — Raw 50 — 202 — 101 — 44 73 87 115 135 150 174 230 281

m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Scan 1808 (13.006 min): 569683S.D (-1799) (-)

Abundance — Sub 50 — 202 — 101 — 50 67 87 123 150 174 230 281

m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

#38
Pyrene
Concen: 0.53 ug m
RT: 13.01 min   Scan# 1808
Delta R.T.   -0.01 min
Lab File: 569683S.D
Acq: 27 Jun 2008   4:10 pm

Tgt Ion:202	Resp:	224536	
Ion	Ratio	Lower	Upper
202	100		
101	15.9	12.5	18.7
203	18.3	12.5	18.7

Abundance Ion 202.00 (201.70 to 202.70): 569683
Ion 101.05 (100.75 to 101.75): 569683
Ion 203.00 (202.70 to 203.70): 569683

100000 — 13.01

50000 — 0

Time--> 12.90 13.00 13.10

```
                        Quantitation Report      (QT Reviewed)

Data File : C:\MSDCHEM\#8\74768EJF\569684S.D              Vial: 56
Acq On    : 28 Jun 2008  11:50 am                    Operator: DC/DD
Sample    :                                          Inst    : Instrumen
Misc      :                                          Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:54 2008          Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8

  Internal Standards              R.T. QIon  Response  Conc Units Dev(Min)
-------------------------------------------------------------------------

Target Compounds                                                  Qvalue
   1) Methyl t-butyl ether         2.32  73      426m  0.00 ug     #
   2) 1,1-Dichloroethene           2.10  61        0   N.D.
   3) trans-1,2-Dichloroethene     2.30  61        0   N.D.
   4) 1,1-Dichloroethane           2.37  63        0   N.D.
   5) cis-1,2-Dichloroethene       2.52  61        0   N.D.
   6) Chloroform                   2.64  83        0   N.D.
   7) 1,1,1-Trichloroethane        2.79  97        0   N.D.
   8) 1,2-Dichloroethane           2.87  62        0   N.D.
   9) Benzene                      2.92  78        0   N.D.
  10) Carbon tetrachloride         2.92 117        0   N.D.
  11) Trichloroethene              3.28  95        0   N.D.
  12) 1,1,2- Trichloroethane       4.13  97        0   N.D.
  13) Toluene                      3.98  91        0   N.D.
  14) Octane                       4.29  43        0   N.D.
  15) Tetrachloroethene            4.40 166        0   N.D.
  16) Chlorobenzene                4.86 112        0   N.D.
  17) 1,1,1,2- Tetrachloroethane   4.93 131        0   N.D.
  18) Ethylbenzene                 4.99  91        0   N.D.
  19) m,p-Xylene                   5.08  91        0   N.D.
  20) o-Xylene                     5.32  91        0   N.D.
  21) 1,1,2,2-Tetrachloroethane    5.60  83        0   N.D.
  22) 1,3,5-Trimethylbenzene       6.03 105        0   N.D.
  23) 1,2,4-Trimethylbenzene       6.26 105        0   N.D.
  24) 1,3-Dichlorobenzene          6.39 146        0   N.D.
  25) 1,4-Dichlorobenzene          6.47 146        0   N.D.
  26) 1,2-Dichlorobenzene          6.63 146        0   N.D.
  27) Undecane                     7.03  57        0   N.D.
  28) Naphthalene                  7.84 128        0   N.D.
  29) Tridecane                    8.42  57        0   N.D.
  30) 2-Methyl naphthalene         8.60 142        0   N.D.
  31) Acenaphthylene               9.60 152        0   N.D.
  32) Pentadecane                  9.62  57        0   N.D.
  33) Acenaphthene                 9.83 153     2141m  0.01 ug     #
  34) Fluorene                    10.36 166        0   N.D.
  35) Phenanthrene                11.46 178    10117m  0.02 ug     #
  36) Anthracene                  11.53 178     8371m  0.02 ug     #
  37) Fluoranthene                12.76 202     7885m  0.02 ug     #
  38) Pyrene                      13.01 202     6573m  0.02 ug     #


-------------------------------------------------------------------------
(#) = qualifier out of range (m) = manual integration (+) = signals summed
569684S.D  A4-8.M      Wed Jul 02 10:36:59 2008      RPT1        Page 1
```
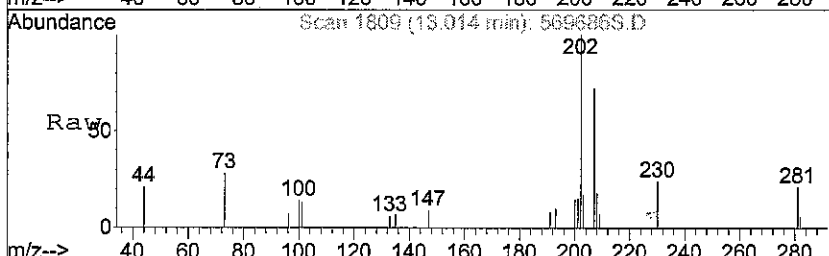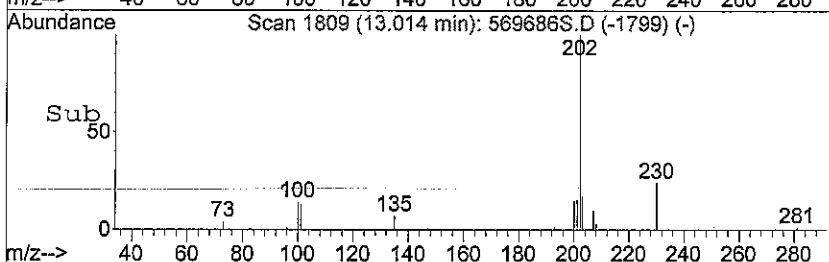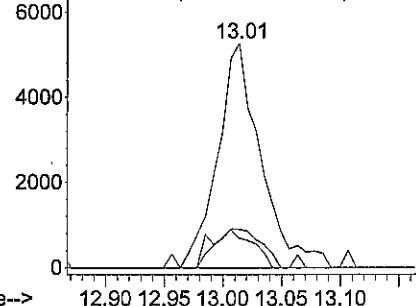
Data File : C:\MSDCHEM\#8\74768EJF\569684S.D   Vial: 56
Acq On   : 28 Jun 2008   11:50 am   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
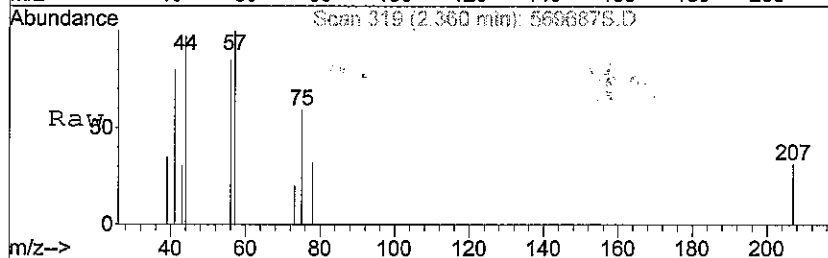Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

Scan 306 (2.267 min): 20SVOC.D (-301) (-)

Abundance
Ref 50
73
61
43
83
96
m/z--> 40 60 80 100 120 140 160 180 200

Scan 313 (2.317 min): 569684S.D

Abundance
Raw 50
44
75
65
91
207
m/z--> 40 60 80 100 120 140 160 180 200

Scan 313 (2.317 min): 569684S.D (-299) (-)

Abundance
Sub 50
75
42
65
91
m/z--> 40 60 80 100 120 140 160 180 200

#1
Methyl t-butyl ether
Concen: 0.00 ug m
RT: 2.32 min   Scan# 313
Delta R.T.   0.02 min
Lab File: 569684S.D
Acq: 28 Jun 2008 11:50 am

Tgt Ion: 73	Resp:		426
Ion	Ratio	Lower	Upper
73	100		
57	0.0	17.9	26.9#
41	271.8	16.6	24.8#

Abundance Ion 73.00 (72.70 to 73.70): 569684S.
Ion 57.00 (56.70 to 57.70): 569684S.
Ion 41.05 (40.75 to 41.75): 569684S.
1000
800
600
400
2.32
200
0
Time--> 2.30 2.32 2.34 2.36

Scan 1358 (9.789 min): 20SVOC.D (-1347) (-)

Abundance
Ref 50
153
76
39 51 63 87 102 110 126 139 165
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

Scan 1364 (9.832 min): 569684S.D

Abundance
Raw 50
44
153
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

Scan 1364 (9.832 min): 569684S.D (-1347) (-)

Abundance
Sub 50
153
44
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

#33
Acenaphthene
Concen: 0.01 ug m
RT: 9.83 min   Scan# 1364
Delta R.T.   0.04 min
Lab File: 569684S.D
Acq: 28 Jun 2008 11:50 am

Tgt Ion:153	Resp:		2141
Ion	Ratio	Lower	Upper
153	100		
154	67.4	78.6	118.0#
152	41.5	42.4	63.6#

Abundance Ion 153.00 (152.70 to 153.70): 569684
Ion 153.95 (153.65 to 154.65): 569684
Ion 152.00 (151.70 to 152.70): 569684
1000
9.83
500
0
Time--> 9.80 9.85 9.90

#35
Phenanthrene
Concen: 0.02 ug m
RT: 11.46 min   Scan# 1592
Delta R.T.   0.02 min
Lab File: 569684S.D
Acq: 28 Jun 2008   11:50 am

Tgt Ion:178 Resp: 10117

Ion	Ratio	Lower	Upper
178	100		
152	5.7	7.0	10.6#
179	9.9	12.9	19.3#

#36
Anthracene
Concen: 0.02 ug m
RT: 11.53 min   Scan# 1602
Delta R.T.   0.03 min
Lab File: 569684S.D
Acq: 28 Jun 2008   11:50 am

Tgt Ion:178 Resp: 8371

Ion	Ratio	Lower	Upper
178	100		
152	1.6	6.2	9.4#
179	9.6	12.1	18.1#

#37
Fluoranthene
Concen: 0.02 ug m
RT: 12.76 min   Scan# 1773
Delta R.T.   -0.00 min
Lab File: 569684S.D
Acq: 28 Jun 2008   11:50 am

Tgt Ion:202 Resp: 7885
Ion   Ratio   Lower   Upper
202   100
101   8.0   10.0   15.0#
203   8.9   13.8   20.6#

#38
Pyrene
Concen: 0.02 ug m
RT: 13.01 min   Scan# 1809
Delta R.T.   -0.01 min
Lab File: 569684S.D
Acq: 28 Jun 2008   11:50 am

Tgt Ion:202 Resp: 6573
Ion   Ratio   Lower   Upper
202   100
101   12.2   12.5   18.7#
203   10.9   12.5   18.7#

Data File : C:\MSDCHEM\#8\74768EJF\569685S.D   Vial: 27
Acq On   : 27 Jun 2008   10:14 pm   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:54 2008   Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8

Internal Standards	R.T.	QIon	Response	Conc Units Dev(Min)

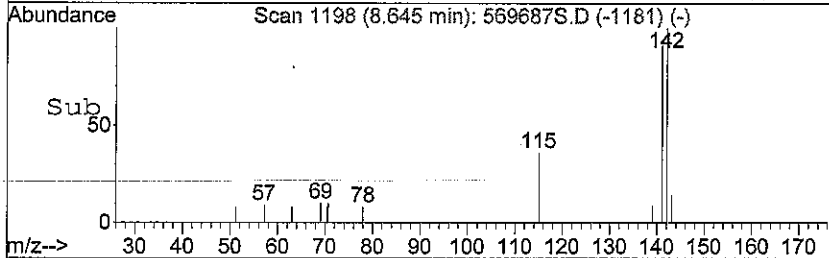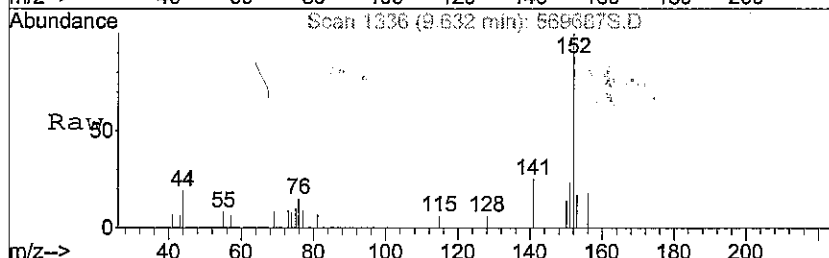| Target Compounds					Qvalue
1) Methyl t-butyl ether	2.30	73	0	N.D.	
2) 1,1-Dichloroethene	2.10	61	0	N.D.	
3) trans-1,2-Dichloroethene	2.30	61	0	N.D.	
4) 1,1-Dichloroethane	2.37	63	0	N.D.	
5) cis-1,2-Dichloroethene	2.52	61	0	N.D.	
6) Chloroform	2.64	83	0	N.D.	
7) 1,1,1-Trichloroethane	2.79	97	0	N.D.	
8) 1,2-Dichloroethane	2.87	62	0	N.D.	
9) Benzene	2.92	78	0	N.D.	
10) Carbon tetrachloride	2.92	117	0	N.D.	
11) Trichloroethene	3.28	95	0	N.D.	
12) 1,1,2- Trichloroethane	4.13	97	0	N.D.	
13) Toluene	3.98	91	0	N.D.	
14) Octane	4.29	43	0	N.D.	
15) Tetrachloroethene	4.40	166	0	N.D.	
16) Chlorobenzene	4.86	112	0	N.D.	
17) 1,1,1,2- Tetrachloroethane	4.93	131	0	N.D.	
18) Ethylbenzene	4.99	91	0	N.D.	
19) m,p-Xylene	5.08	91	0	N.D.	
20) o-Xylene	5.32	91	0	N.D.	
21) 1,1,2,2-Tetrachloroethane	5.60	83	0	N.D.	
22) 1,3,5-Trimethylbenzene	6.03	105	0	N.D.	
23) 1,2,4-Trimethylbenzene	6.26	105	0	N.D.	
24) 1,3-Dichlorobenzene	6.39	146	0	N.D.	
25) 1,4-Dichlorobenzene	6.47	146	0	N.D.	
26) 1,2-Dichlorobenzene	6.63	146	0	N.D.	
27) Undecane	7.03	57	0	N.D.	
28) Naphthalene	7.84	128	0	N.D.	
29) Tridecane	8.42	57	0	N.D.	
30) 2-Methyl naphthalene	8.60	142	0	N.D.	
31) Acenaphthylene	9.60	152	0	N.D.	
32) Pentadecane	9.62	57	0	N.D.	
33) Acenaphthene	9.84	153	1432m	0.00 ug	#
34) Fluorene	10.36	166	0	N.D.	
35) Phenanthrene	11.44	178	0	N.D.	
36) Anthracene	11.50	178	0	N.D.	
37) Fluoranthene	12.76	202	0	N.D.	
38) Pyrene	13.01	202	4193m	0.01 ug	#

Data File : C:\MSDCHEM\#8\74768EJF\569685S.D   Vial: 27
Acq On   : 27 Jun 2008 10:14 pm   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

569685S.D   A4-8.M   Wed Jul 02 10:37:00 2008   RPT1   Page 2

Scan 1358 (9.789 min): 20SVOC.D (-1347) (-)

Abundance / Re50 / m/z-->
Peaks: 39, 51, 63, 76, 87, 102, 110, 126, 139, 153, 165

Scan 1365 (9.839 min): 569685S.D

Abundance / Raw50 / m/z-->
Peaks: 44, 73, 153

Scan 1365 (9.839 min): 569685S.D (-1347) (-)

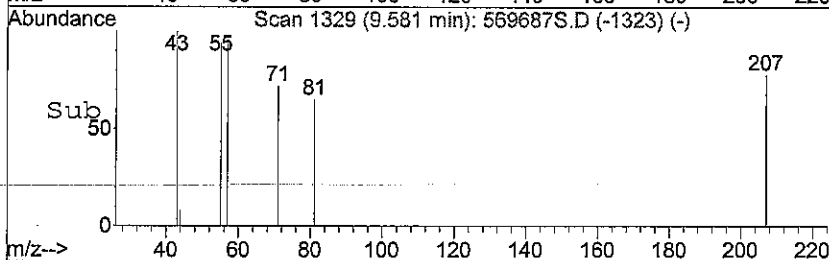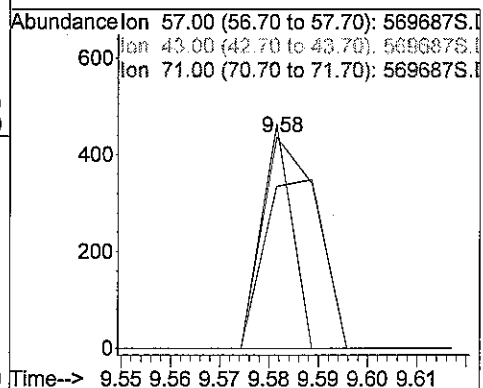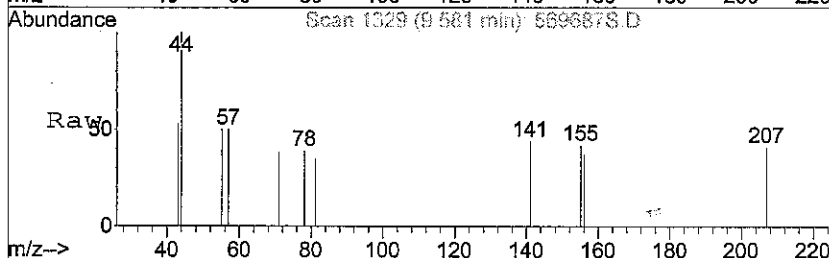Abundance / Sub50 / m/z-->
Peaks: 44, 153

```
#33
Acenaphthene
Concen:        0.00 ug m
RT: 9.84 min   Scan# 1365
Delta R.T.     0.05 min
Lab File:      569685S.D
Acq: 27 Jun 2008   10:14 pm

Tgt Ion:153  Resp:        1432
Ion   Ratio   Lower   Upper
153   100
154    0.0    78.6   118.0#
152    0.0    42.4    63.6#
```
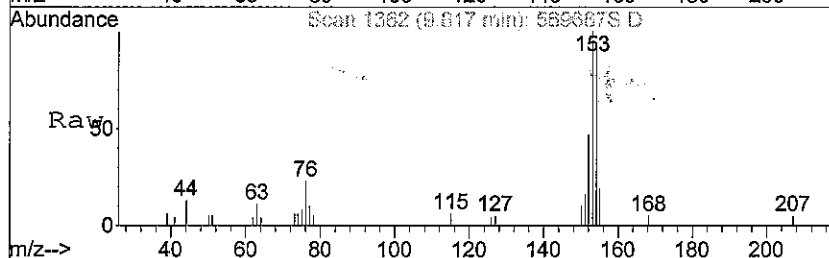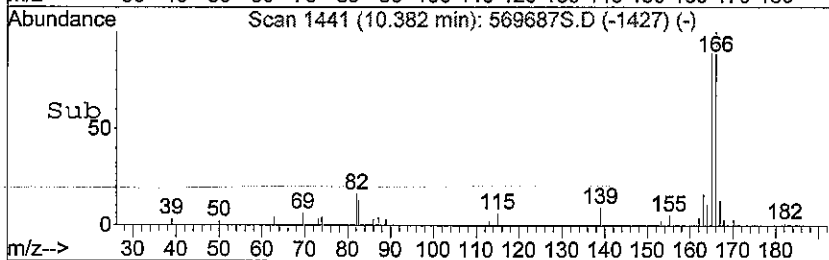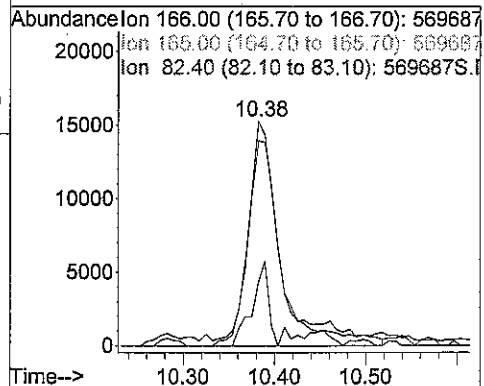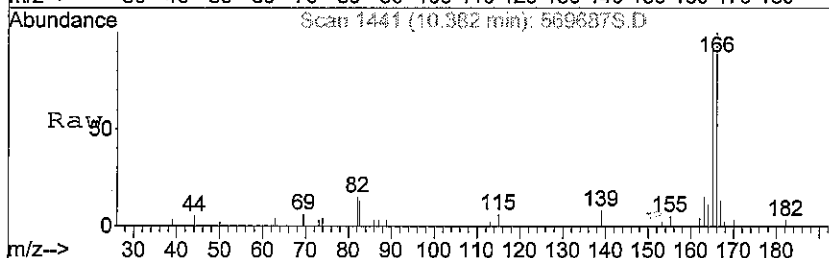
Abundance Ion 153.00 (152.70 to 153.70): 569685
Ion 153.95 (153.65 to 154.65): 569685
Ion 152.00 (151.70 to 152.70): 569685

Peak: 9.84
Time--> 9.78 9.80 9.82 9.84 9.86 9.88

Scan 2684 (14.134 min): PAH.D (-)

Abundance / Re50 / m/z-->
Peaks: 75, 88, 101, 150, 174, 202, 281

Scan 1809 (13.014 min): 569685S.D

Abundance / Raw50 / m/z-->
Peaks: 44, 73, 96, 133, 147, 191, 207, 230, 281

Scan 1809 (13.014 min): 569685S.D (-1799) (-)

Abundance / Sub50 / m/z-->
Peaks: 44, 96, 133, 147, 202, 230, 283

```
#38
Pyrene
Concen:        0.01 ug m
RT: 13.01 min  Scan# 1809
Delta R.T.     -0.01 min
Lab File:      569685S.D
Acq: 27 Jun 2008   10:14 pm

Tgt Ion:202  Resp:        4193
Ion   Ratio   Lower   Upper
202   100
101    3.1    12.5    18.7#
203    3.4    12.5    18.7#
```

Abundance Ion 202.00 (201.70 to 202.70): 569685
Ion 101.05 (100.75 to 101.75): 569685
Ion 203.00 (202.70 to 203.70): 569685

Peak: 13.01
Time--> 12.90 12.95 13.00 13.05 13.10

```
                Quantitation Report      (QT Reviewed)

Data File : C:\MSDCHEM\#8\74768EJF\569686S.D           Vial: 33
Acq On    : 28 Jun 2008   1:01 am                Operator: DC/DD
Sample    :                                      Inst     : Instrumen
Misc      :                                      Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:54 2008        Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8

  Internal Standards            R.T. QIon  Response  Conc Units Dev(Min)
  ---------------------------------------------------------------------------

Target Compounds                                                Qvalue
  1) Methyl t-butyl ether       2.30   73        0    N.D.
  2) 1,1-Dichloroethene         2.10   61        0    N.D.
  3) trans-1,2-Dichloroethene   2.30   61        0    N.D.
  4) 1,1-Dichloroethane         2.37   63        0    N.D.
  5) cis-1,2-Dichloroethene     2.52   61        0    N.D.
  6) Chloroform                 2.64   83        0    N.D.
  7) 1,1,1-Trichloroethane      2.79   97        0    N.D.
  8) 1,2-Dichloroethane         2.87   62        0    N.D.
  9) Benzene                    2.93   78    3877m    0.02 ug     #
 10) Carbon tetrachloride       2.92  117        0    N.D.
 11) Trichloroethene            3.28   95        0    N.D.
 12) 1,1,2- Trichloroethane     4.13   97        0    N.D.
 13) Toluene                    3.98   91        0    N.D.
 14) Octane                     4.29   43        0    N.D.
 15) Tetrachloroethene          4.40  166        0    N.D.
 16) Chlorobenzene              4.86  112        0    N.D.
 17) 1,1,1,2- Tetrachloroethane 4.93  131        0    N.D.
 18) Ethylbenzene               4.99   91        0    N.D.
 19) m,p-Xylene                 5.08   91        0    N.D.
 20) o-Xylene                   5.32   91        0    N.D.
 21) 1,1,2,2-Tetrachloroethane  5.60   83        0    N.D.
 22) 1,3,5-Trimethylbenzene     6.03  105        0    N.D.
 23) 1,2,4-Trimethylbenzene     6.26  105        0    N.D.
 24) 1,3-Dichlorobenzene        6.39  146        0    N.D.
 25) 1,4-Dichlorobenzene        6.47  146        0    N.D.
 26) 1,2-Dichlorobenzene        6.63  146        0    N.D.
 27) Undecane                   7.03   57        0    N.D.
 28) Naphthalene                7.91  128    7357m    0.02 ug     #
 29) Tridecane                  8.42   57        0    N.D.
 30) 2-Methyl naphthalene       8.67  142    1346m    0.00 ug     #
 31) Acenaphthylene             9.60  152        0    N.D.
 32) Pentadecane                9.58   57    1197m    0.01 ug     #
 33) Acenaphthene               9.81  153    6466m    0.02 ug     #
 34) Fluorene                  10.40  166    3661m    0.01 ug     #
 35) Phenanthrene              11.45  178    7207m    0.02 ug     #
 36) Anthracene                11.52  178    5834m    0.01 ug     #
 37) Fluoranthene              12.76  202   11957m    0.03 ug     #
 38) Pyrene                    13.01  202   13588m    0.03 ug     #


  ---------------------------------------------------------------------------
(#) = qualifier out of range (m) = manual integration (+) = signals summed
569686S.D  A4-8.M       Wed Jul 02 10:37:00 2008       RPT1        Page 1
```
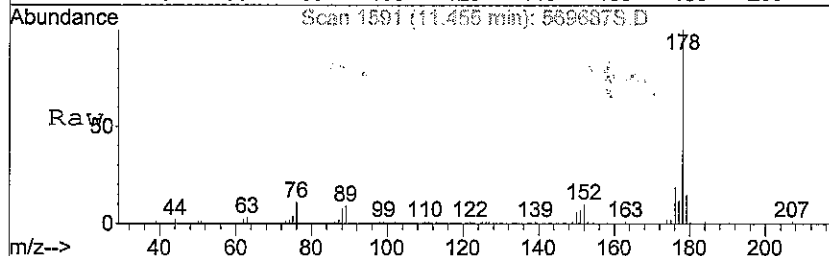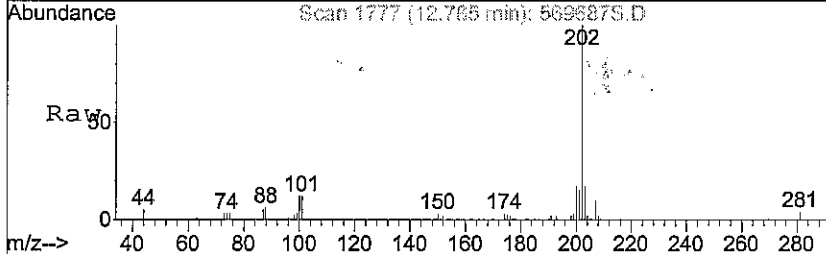
Data File : C:\MSDCHEM\#8\74768EJF\569686S.D   Vial: 33
Acq On   : 28 Jun 2008   1:01 am   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

#9
Benzene
Concen: 0.02 ug m
RT: 2.93 min   Scan# 399
Delta R.T.   0.01 min
Lab File: 569686S.D
Acq: 28 Jun 2008   1:01 am

Tgt Ion: 78 Resp: 3877
Ion   Ratio   Lower   Upper
 78   100
 51   3.5   13.8   20.6#
 52   4.0   13.7   20.5#

#28
Naphthalene
Concen: 0.02 ug m
RT: 7.91 min   Scan# 1095
Delta R.T.   0.06 min
Lab File: 569686S.D
Acq: 28 Jun 2008   1:01 am

Tgt Ion:128 Resp: 7357
Ion   Ratio   Lower   Upper
128   100
102   0.0   10.1   15.1#
127   0.0   14.2   21.4#

#30
2-Methyl naphthalene
Concen: 0.00 ug m
RT: 8.67 min   Scan# 1201
Delta R.T.   0.06 min
Lab File: 569686S.D
Acq: 28 Jun 2008   1:01 am

Tgt Ion:142	Resp:	1346	
Ion	Ratio	Lower	Upper
142	100		
141	0.0	69.2	103.8#
115	0.0	29.8	44.8#

Top panel: Scan 1192 (8.603 min): 20SVOC.D (-1179) (-)
Middle panel: Scan 1201 (8.666 min): 569686S.D
Bottom panel: Scan 1201 (8.666 min): 569686S.D (-1181) (-)

Abundance Ion 141.95 (141.65 to 142.65): 569686
Ion 140.95 (140.65 to 141.65): 569686
Ion 114.95 (114.65 to 115.65): 569686
8.67

#32
Pentadecane
Concen: 0.01 ug m
RT: 9.58 min   Scan# 1329
Delta R.T.   -0.04 min
Lab File: 569686S.D
Acq: 28 Jun 2008   1:01 am

Tgt Ion: 57	Resp:	1197	
Ion	Ratio	Lower	Upper
57	100		
43	50.4	57.7	86.5#
71	0.0	58.2	87.2#

Top panel: Scan 1335 (9.625 min): 20SVOC.D (-1327) (-)
Middle panel: Scan 1329 (9.582 min): 569686S.D
Bottom panel: Scan 1329 (9.582 min): 569686S.D (-1323) (-)

Abundance Ion 57.00 (56.70 to 57.70): 569686S.
Ion 43.00 (42.70 to 43.70): 569686S.
Ion 71.00 (70.70 to 71.70): 569686S.
9.58

569686S.D   A4-8.M   Wed Jul 02 10:42:51 2008   RPT1   Page 4

#33
Acenaphthene
Concen: 0.02 ug m
RT: 9.81 min   Scan# 1361
Delta R.T.   0.02 min
Lab File: 569686S.D
Acq: 28 Jun 2008   1:01 am

Tgt Ion:153 Resp: 6466
Ion   Ratio   Lower   Upper
153   100
154   89.3   78.6   118.0
152   47.2   42.4   63.6

#34
Fluorene
Concen: 0.01 ug m
RT: 10.40 min   Scan# 1443
Delta R.T.   0.04 min
Lab File: 569686S.D
Acq: 28 Jun 2008   1:01 am

Tgt Ion:166 Resp: 3661
Ion   Ratio   Lower   Upper
166   100
165   84.7   73.4   110.2
 82   27.2   13.8   20.8#

Scan 2244 (12.487 min): PAH.D (-)

#35
Phenanthrene
Concen: 0.02 ug m
RT: 11.45 min   Scan# 1591
Delta R.T.   0.01 min
Lab File: 569686S.D
Acq: 28 Jun 2008   1:01 am

Tgt Ion:178 Resp: 7207
Ion Ratio   Lower   Upper
178 100
152   8.5   7.0   10.6
179   16.2   12.9   19.3

#36
Anthracene
Concen: 0.01 ug m
RT: 11.52 min   Scan# 1600
Delta R.T.   0.01 min
Lab File: 569686S.D
Acq: 28 Jun 2008   1:01 am

Tgt Ion:178 Resp: 5834
Ion Ratio   Lower   Upper
178 100
152   0.0   6.2   9.4#
179   14.0   12.1   18.1

#37
Fluoranthene
Concen: 0.03 ug m
RT: 12.76 min   Scan# 1773
Delta R.T.   −0.00 min
Lab File: 569686S.D
Acq: 28 Jun 2008   1:01 am

Tgt Ion:202	Resp:	11957	
Ion	Ratio	Lower	Upper
202	100		
101	11.7	10.0	15.0
203	15.1	13.8	20.6

#38
Pyrene
Concen: 0.03 ug m
RT: 13.01 min   Scan# 1809
Delta R.T.   −0.01 min
Lab File: 569686S.D
Acq: 28 Jun 2008   1:01 am

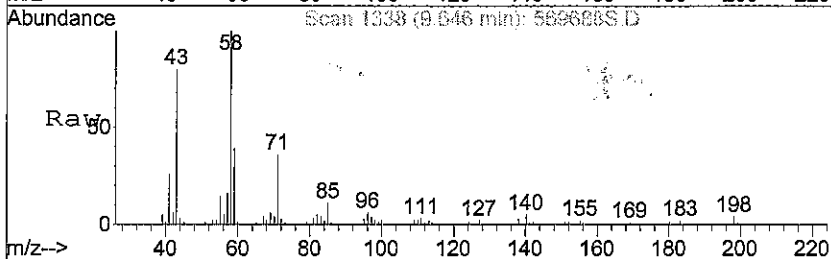| Tgt Ion:202	Resp:	13588	
Ion	Ratio	Lower	Upper
202	100		
101	14.8	12.5	18.7
203	19.6	12.5	18.7#

```
                     Quantitation Report      (QT Reviewed)

Data File : C:\MSDCHEM\#8\74768EJF\569687S.D              Vial: 42
Acq On    : 28 Jun 2008   5:13 am                    Operator: DC/DD
Sample    :                                          Inst    : Instrumen
Misc      :                                          Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:55 2008            Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8

   Internal Standards              R.T. QIon  Response  Conc Units Dev(Min)
   ----------------------------------------------------------------------------

 Target Compounds                                                    Qvalue
   1) Methyl t-butyl ether         2.36   73     133m   0.00 ug    #
   2) 1,1-Dichloroethene           2.10   61       0    N.D.
   3) trans-1,2-Dichloroethene     2.30   61       0    N.D.
   4) 1,1-Dichloroethane           2.37   63       0    N.D.
   5) cis-1,2-Dichloroethene       2.52   61       0    N.D.
   6) Chloroform                   2.64   83       0    N.D.
   7) 1,1,1-Trichloroethane        2.79   97       0    N.D.
   8) 1,2-Dichloroethane           2.87   62       0    N.D.
   9) Benzene                      2.92   78       0    N.D.
  10) Carbon tetrachloride         2.92  117       0    N.D.
  11) Trichloroethene              3.28   95       0    N.D.
  12) 1,1,2- Trichloroethane       4.13   97       0    N.D.
  13) Toluene                      3.98   91       0    N.D.
  14) Octane                       4.29   43       0    N.D.
  15) Tetrachloroethene            4.40  166       0    N.D.
  16) Chlorobenzene                4.86  112       0    N.D.
  17) 1,1,1,2- Tetrachloroethane   4.93  131       0    N.D.
  18) Ethylbenzene                 4.99   91       0    N.D.
  19) m,p-Xylene                   5.08   91       0    N.D.
  20) o-Xylene                     5.32   91       0    N.D.
  21) 1,1,2,2-Tetrachloroethane    5.60   83       0    N.D.
  22) 1,3,5-Trimethylbenzene       6.03  105       0    N.D.
  23) 1,2,4-Trimethylbenzene       6.26  105       0    N.D.
  24) 1,3-Dichlorobenzene          6.39  146       0    N.D.
  25) 1,4-Dichlorobenzene          6.47  146       0    N.D.
  26) 1,2-Dichlorobenzene          6.63  146       0    N.D.
  27) Undecane                     7.11   57    4366m   0.02 ug    #
  28) Naphthalene                  7.90  128   13106m   0.03 ug    #
  29) Tridecane                    8.42   57       0    N.D.
  30) 2-Methyl naphthalene         8.64  142    9506m   0.03 ug    #
  31) Acenaphthylene               9.63  152   11305m   0.02 ug    #
  32) Pentadecane                  9.58   57     334m   0.00 ug    #
  33) Acenaphthene                 9.82  153   14396m   0.04 ug    #
  34) Fluorene                    10.38  166   36883m   0.09 ug    #
  35) Phenanthrene                11.45  178  142462m   0.33 ug    #
  36) Anthracene                  11.52  178   57969m   0.14 ug    #
  37) Fluoranthene                12.78  202   58241m   0.14 ug    #
  38) Pyrene                      13.05  202   43345m   0.10 ug    #


 ----------------------------------------------------------------------------
 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 569687S.D  A4-8.M      Wed Jul 02 10:37:00 2008      RPT1        Page 1
```
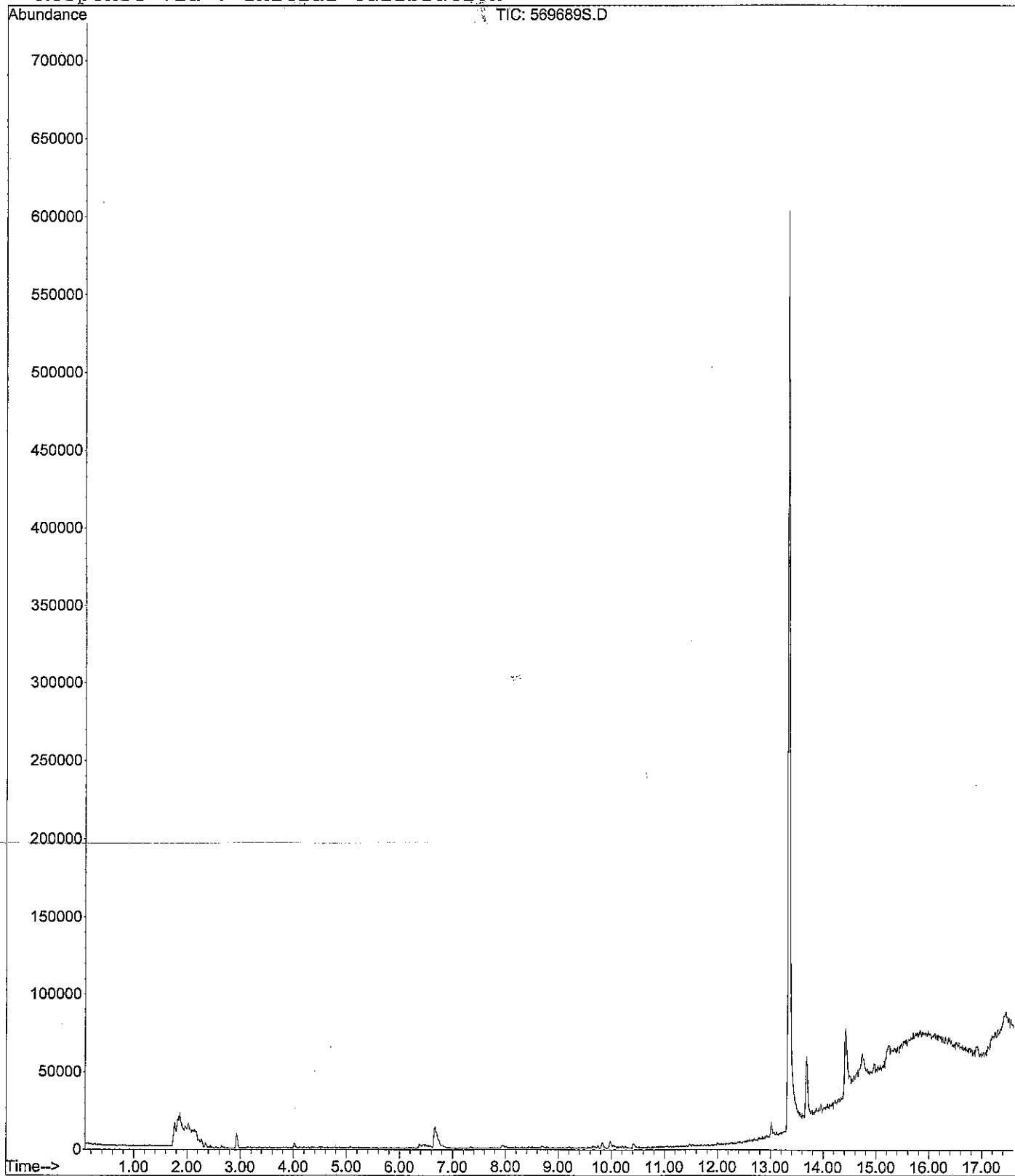
```
Data File : C:\MSDCHEM\#8\74768EJF\569687S.D          Vial: 42
Acq On    : 28 Jun 2008    5:13 am                    Operator: DC/DD
Sample    :                                           Inst    : Instrumen
Misc      :                                           Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53 2008              Quant Results File: A4-8.RES

Method      : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title       : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
```


TIC: 569687S.D

Scan 306 (2.267 min): 20SVOC.D (-301) (-)

Scan 319 (2.360 min): 569687S.D

Scan 319 (2.360 min): 569687S.D (-299) (-)

#1
Methyl t-butyl ether
Concen: 0.00 ug m
RT: 2.36 min   Scan# 319
Delta R.T.   0.06 min
Lab File: 569687S.D
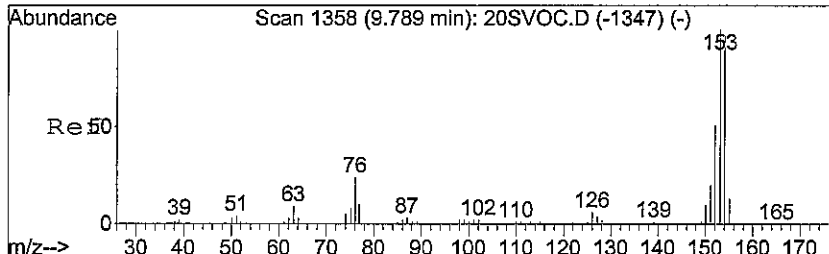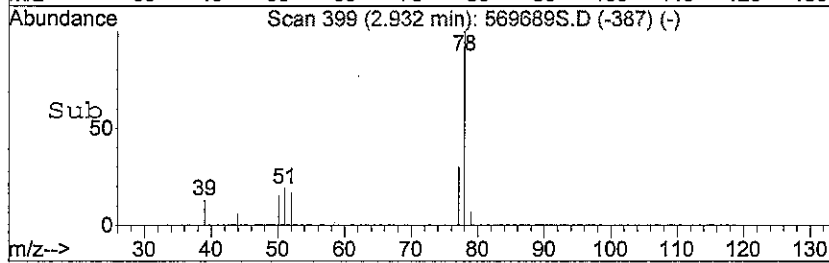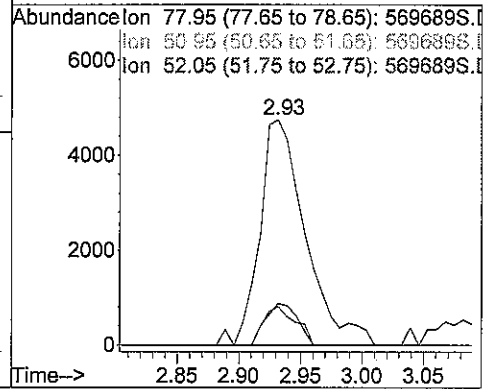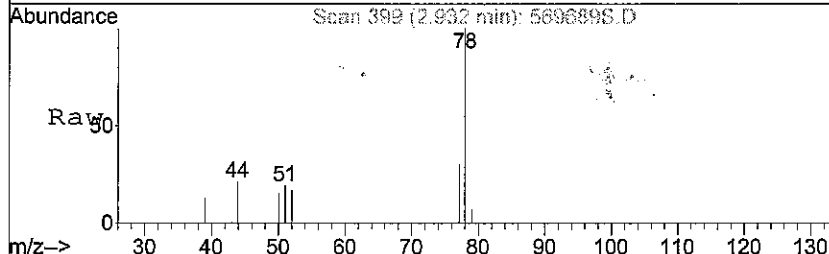Acq: 28 Jun 2008   5:13 am

Tgt Ion: 73 Resp: 133
Ion   Ratio   Lower   Upper
 73   100
 57   0.0   17.9   26.9#
 41   0.0   16.6   24.8#

Abundance Ion 73.00 (72.70 to 73.70): 569687S.D
Ion 57.00 (56.70 to 57.70): 569687S.D
Ion 41.05 (40.75 to 41.75): 569687S.D

Scan 973 (7.037 min): 20SVOC.D (-964) (-)

Scan 983 (7.107 min): 569687S.D

Scan 983 (7.107 min): 569687S.D (-961) (-)

#27
Undecane
Concen: 0.02 ug m
RT: 7.11 min   Scan# 983
Delta R.T.   0.08 min
Lab File: 569687S.D
Acq: 28 Jun 2008   5:13 am

Tgt Ion: 57 Resp: 4366
Ion   Ratio   Lower   Upper
 57   100
 43   0.0   66.6   100.0#
 71   0.0   44.7   67.1#

Abundance Ion 57.00 (56.70 to 57.70): 569687S.D
Ion 43.00 (42.70 to 43.70): 569687S.D
Ion 71.00 (70.70 to 71.70): 569687S.D

569687S.D   A4-8.M   Wed Jul 02 10:42:52 2008   RPT1   Page 3

#28
Naphthalene
Concen: 0.03 ug m
RT: 7.90 min   Scan# 1094
Delta R.T.   0.06 min
Lab File: 569687S.D
Acq: 28 Jun 2008   5:13 am

Tgt Ion:128 Resp: 13106

Ion	Ratio	Lower	Upper
128	100		
102	0.0	10.1	15.1#
127	0.0	14.2	21.4#

#30
2-Methyl naphthalene
Concen: 0.03 ug m
RT: 8.64 min   Scan# 1198
Delta R.T.   0.04 min
Lab File: 569687S.D
Acq: 28 Jun 2008   5:13 am

Tgt Ion:142 Resp: 9506

Ion	Ratio	Lower	Upper
142	100		
141	53.8	69.2	103.8#
115	0.0	29.8	44.8#

Top panel (left spectra):

Abundance — Scan 1332 (9.604 min): 20SVOC.D (-1319) (-)
Re 50
152
43 57 76 87 98 113 126 138 166 182 212
m/z--> 40 60 80 100 120 140 160 180 200

Abundance — Scan 1336 (9.632 min): 569687S.D
Raw 50
152
44 55 76 115 128 141
m/z--> 40 60 80 100 120 140 160 180 200

Abundance — Scan 1336 (9.632 min): 569687S.D (-1321) (-)
Sub 50
152
43 57 75
m/z--> 40 60 80 100 120 140 160 180 200

Top panel (right):

#31
Acenaphthylene
Concen: 0.02 ug m
RT: 9.63 min   Scan# 1336
Delta R.T.   0.03 min
Lab File: 569687S.D
Acq: 28 Jun 2008   5:13 am

Tgt Ion:152	Resp:	11305	
Ion	Ratio	Lower	Upper
152	100		
76	13.0	12.6	18.8
151	19.3	21.7	32.5#

Abundance Ion 152.00 (151.70 to 152.70): 569687
Ion 75.95 (75.65 to 76.65): 569687S.
Ion 151.00 (150.70 to 151.70): 569687
6000
9.63
4000
2000
0
Time--> 9.55   9.60   9.65   9.70

Bottom panel (left spectra):

Abundance — Scan 1335 (9.625 min): 20SVOC.D (-1327) (-)
Re 50
57
43 71 85
99 113 127 140 152 169 183 197 212
m/z--> 40 60 80 100 120 140 160 180 200 220

Abundance — Scan 1329 (9.581 min): 569687S.D
Raw 50
44
57 78 141 155 207
m/z--> 40 60 80 100 120 140 160 180 200 220

Abundance — Scan 1329 (9.581 min): 569687S.D (-1323) (-)
Sub 50
43 55 71 81 207
m/z--> 40 60 80 100 120 140 160 180 200 220

Bottom panel (right):

#32
Pentadecane
Concen: 0.00 ug m
RT: 9.58 min   Scan# 1329
Delta R.T.   -0.04 min
Lab File: 569687S.D
Acq: 28 Jun 2008   5:13 am

Tgt Ion: 57	Resp:	334	
Ion	Ratio	Lower	Upper
57	100		
43	0.0	57.7	86.5#
71	0.0	58.2	87.2#

Abundance Ion 57.00 (56.70 to 57.70): 569687S.
Ion 43.00 (42.70 to 43.70): 569687S.
Ion 71.00 (70.70 to 71.70): 569687S.
600
9.58
400
200
0
Time--> 9.55 9.56 9.57 9.58 9.59 9.60 9.61

#33
Acenaphthene
Concen: 0.04 ug m
RT: 9.82 min   Scan# 1362
Delta R.T.   0.03 min
Lab File: 569687S.D
Acq: 28 Jun 2008   5:13 am

Tgt Ion:153 Resp: 14396
Ion   Ratio   Lower   Upper
153   100
154   89.7   78.6   118.0
152   49.0   42.4   63.6

#34
Fluorene
Concen: 0.09 ug m
RT: 10.38 min   Scan# 1441
Delta R.T.   0.02 min
Lab File: 569687S.D
Acq: 28 Jun 2008   5:13 am

Tgt Ion:166 Resp: 36883
Ion   Ratio   Lower   Upper
166   100
165   75.1   73.4   110.2
82   19.3   13.8   20.8

#35
Phenanthrene
Concen: 0.33 ug m
RT: 11.45 min   Scan# 1591
Delta R.T.   0.01 min
Lab File: 569687S.D
Acq: 28 Jun 2008   5:13 am

Tgt Ion:178 Resp: 142462

Ion	Ratio	Lower	Upper
178	100		
152	9.9	7.0	10.6
179	15.3	12.9	19.3

#36
Anthracene
Concen: 0.14 ug m
RT: 11.52 min   Scan# 1600
Delta R.T.   0.01 min
Lab File: 569687S.D
Acq: 28 Jun 2008   5:13 am

Tgt Ion:178 Resp: 57969

Ion	Ratio	Lower	Upper
178	100		
152	4.5	6.2	9.4#
179	7.3	12.1	18.1#

#37
Fluoranthene
Concen: 0.14 ug m
RT: 12.78 min   Scan# 1777
Delta R.T.   0.03 min
Lab File: 569687S.D
Acq: 28 Jun 2008   5:13 am

Tgt Ion:202 Resp: 58241

Ion	Ratio	Lower	Upper
202	100		
101	11.3	10.0	15.0
203	14.7	13.8	20.6

#38
Pyrene
Concen: 0.10 ug m
RT: 13.05 min   Scan# 1814
Delta R.T.   0.03 min
Lab File: 569687S.D
Acq: 28 Jun 2008   5:13 am

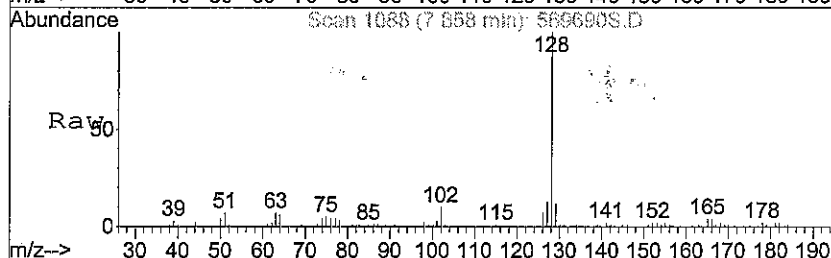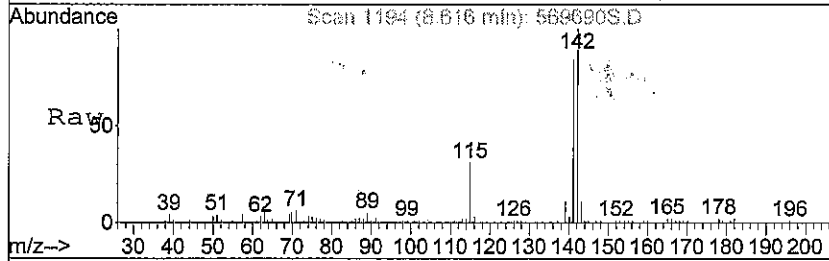Tgt Ion:202 Resp: 43345

Ion	Ratio	Lower	Upper
202	100		
101	13.0	12.5	18.7
203	16.1	12.5	18.7

```
                    Quantitation Report      (QT Reviewed)

Data File : C:\MSDCHEM\#8\74768EJF\569688S.D          Vial: 16
Acq On    : 27 Jun 2008    5:06 pm                   Operator: DC/DD
Sample    :                                          Inst    : Instrumen
Misc      :                                          Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:55 2008          Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8


   Internal Standards          R.T. QIon  Response  Conc Units Dev(Min)
   ---------------------------------------------------------------------


Target Compounds                                                Qvalue
   1) Methyl t-butyl ether      2.30   73       0     N.D.
   2) 1,1-Dichloroethene        2.10   61       0     N.D.
   3) trans-1,2-Dichloroethene  2.30   61       0     N.D.
   4) 1,1-Dichloroethane        2.37   63       0     N.D.
   5) cis-1,2-Dichloroethene    2.52   61       0     N.D.
   6) Chloroform                2.64   83       0     N.D.
   7) 1,1,1-Trichloroethane     2.79   97       0     N.D.
   8) 1,2-Dichloroethane        2.87   62       0     N.D.
   9) Benzene                   2.92   78       0     N.D.
  10) Carbon tetrachloride      2.92  117       0     N.D.
  11) Trichloroethene           3.28   95       0     N.D.
  12) 1,1,2- Trichloroethane    4.13   97       0     N.D.
  13) Toluene                   3.98   91       0     N.D.
  14) Octane                    4.29   43       0     N.D.
  15) Tetrachloroethene         4.40  166       0     N.D.
  16) Chlorobenzene             4.86  112       0     N.D.
  17) 1,1,1,2- Tetrachloroethane 4.93 131       0     N.D.
  18) Ethylbenzene              4.99   91       0     N.D.
  19) m,p-Xylene                5.08   91       0     N.D.
  20) o-Xylene                  5.32   91       0     N.D.
  21) 1,1,2,2-Tetrachloroethane 5.60   83       0     N.D.
  22) 1,3,5-Trimethylbenzene    6.03  105       0     N.D.
  23) 1,2,4-Trimethylbenzene    6.26  105       0     N.D.
  24) 1,3-Dichlorobenzene       6.39  146       0     N.D.
  25) 1,4-Dichlorobenzene       6.47  146       0     N.D.
  26) 1,2-Dichlorobenzene       6.63  146       0     N.D.
  27) Undecane                  7.03   57  1906905m  10.19 ug     #
  28) Naphthalene               7.84  128       0     N.D.
  29) Tridecane                 8.46   57    17143m   0.09 ug     #
  30) 2-Methyl naphthalene      8.60  142       0     N.D.
  31) Acenaphthylene            9.60  152       0     N.D.
  32) Pentadecane               9.65   57    25367m   0.12 ug     #
  33) Acenaphthene              9.82  153     1622m   0.00 ug     #
  34) Fluorene                 10.36  166       0     N.D.
  35) Phenanthrene             11.44  178       0     N.D.
  36) Anthracene               11.50  178       0     N.D.
  37) Fluoranthene             12.76  202     6533m   0.02 ug     #
  38) Pyrene                   13.02  202     5393m   0.01 ug     #




   ---------------------------------------------------------------------
  (#) = qualifier out of range (m) = manual integration (+) = signals summed
  569688S.D  A4-8.M       Wed Jul 02 10:37:01 2008      RPT1      Page 1
```

Data File : C:\MSDCHEM\#8\74768EJF\569688S.D   Vial: 16
Acq On   : 27 Jun 2008   5:06 pm   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

#27
Undecane
Concen: 10.19 ug m
RT: 7.03 min   Scan# 972
Delta R.T.   -0.00 min
Lab File: 569688S.D
Acq: 27 Jun 2008   5:06 pm

Tgt Ion: 57 Resp: 1906905
Ion   Ratio   Lower   Upper
 57   100
 43   80.0   66.6   100.0
 71   48.9   44.7   67.1

#29
Tridecane
Concen: 0.09 ug m
RT: 8.46 min   Scan# 1172
Delta R.T.   0.04 min
Lab File: 569688S.D
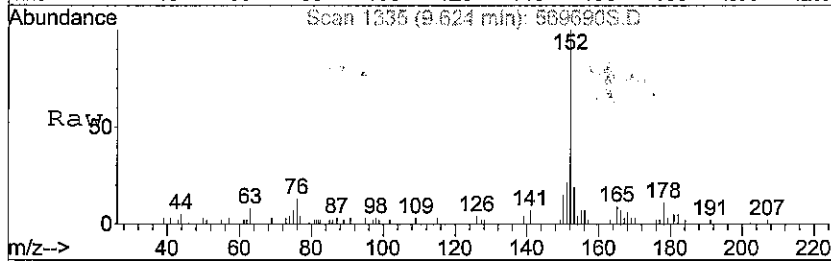Acq: 27 Jun 2008   5:06 pm

Tgt Ion: 57 Resp: 17143
Ion   Ratio   Lower   Upper
 57   100
 43   48.7   61.8   92.8#
 71   37.2   54.4   81.6#

#32
Pentadecane
Concen: 0.12 ug m
RT: 9.65 min Scan# 1338
Delta R.T. 0.03 min
Lab File: 569688S.D
Acq: 27 Jun 2008 5:06 pm

Tgt Ion: 57 Resp: 25367

Ion	Ratio	Lower	Upper
57	100		
43	410.0	57.7	86.5#
71	185.1	58.2	87.2#

#33
Acenaphthene
Concen: 0.00 ug m
RT: 9.82 min Scan# 1363
Delta R.T. 0.04 min
Lab File: 569688S.D
Acq: 27 Jun 2008 5:06 pm

Tgt Ion:153 Resp: 1622

Ion	Ratio	Lower	Upper
153	100		
154	96.8	78.6	118.0
152	48.1	42.4	63.6

Scan 2608 (13.850 min): PAH.D (-)

Scan 1774 (12.763 min): 569688S.D

Scan 1774 (12.763 min): 569688S.D (-1762) (-)

#37
Fluoranthene
Concen: 0.02 ug m
RT: 12.76 min   Scan# 1774
Delta R.T.   0.01 min
Lab File: 569688S.D
Acq: 27 Jun 2008   5:06 pm

Tgt Ion:202 Resp: 6533
Ion   Ratio   Lower   Upper
202   100
101   4.5   10.0   15.0#
203   9.8   13.8   20.6#

Abundance Ion 202.00 (201.70 to 202.70): 569688
Ion 101.05 (100.75 to 101.75): 569688
Ion 203.00 (202.70 to 203.70): 569688

Scan 2684 (14.134 min): PAH.D (-)

Scan 1810 (13.021 min): 569688S.D

Scan 1810 (13.021 min): 569688S.D (-1799) (-)

#38
Pyrene
Concen: 0.01 ug m
RT: 13.02 min   Scan# 1810
Delta R.T.   0.00 min
Lab File: 569688S.D
Acq: 27 Jun 2008   5:06 pm

Tgt Ion:202 Resp: 5393
Ion   Ratio   Lower   Upper
202   100
101   5.9   12.5   18.7#
203   6.1   12.5   18.7#

Abundance Ion 202.00 (201.70 to 202.70): 569688
Ion 101.05 (100.75 to 101.75): 569688
Ion 203.00 (202.70 to 203.70): 569688

569688S.D   A4-8.M   Wed Jul 02 10:42:53 2008   RPT1   Page 5

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                Quantitation Report        (QT Reviewed)
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Data File : C:\MSDCHEM\#8\74768EJF\569689S.D   Vial: 37
Acq On   : 28 Jun 2008   2:53 am   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:55 2008   Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds						Qvalue
1) Methyl t-butyl ether	2.30	73	0	N.D.		
2) 1,1-Dichloroethene	2.10	61	0	N.D.		
3) trans-1,2-Dichloroethene	2.30	61	0	N.D.		
4) 1,1-Dichloroethane	2.37	63	0	N.D.		
5) cis-1,2-Dichloroethene	2.52	61	0	N.D.		
6) Chloroform	2.64	83	0	N.D.		
7) 1,1,1-Trichloroethane	2.79	97	0	N.D.		
8) 1,2-Dichloroethane	2.87	62	0	N.D.		
9) Benzene	2.93	78	12314m	0.05	ug	#
10) Carbon tetrachloride	2.92	117	0	N.D.		
11) Trichloroethene	3.28	95	0	N.D.		
12) 1,1,2- Trichloroethane	4.13	97	0	N.D.		
13) Toluene	3.98	91	0	N.D.		
14) Octane	4.29	43	0	N.D.		
15) Tetrachloroethene	4.40	166	0	N.D.		
16) Chlorobenzene	4.86	112	0	N.D.		
17) 1,1,1,2- Tetrachloroethane	4.93	131	0	N.D.		
18) Ethylbenzene	4.99	91	0	N.D.		
19) m,p-Xylene	5.08	91	0	N.D.		
20) o-Xylene	5.32	91	0	N.D.		
21) 1,1,2,2-Tetrachloroethane	5.60	83	0	N.D.		
22) 1,3,5-Trimethylbenzene	6.03	105	0	N.D.		
23) 1,2,4-Trimethylbenzene	6.26	105	0	N.D.		
24) 1,3-Dichlorobenzene	6.39	146	0	N.D.		
25) 1,4-Dichlorobenzene	6.47	146	0	N.D.		
26) 1,2-Dichlorobenzene	6.63	146	0	N.D.		
27) Undecane	7.03	57	0	N.D.		
28) Naphthalene	7.84	128	0	N.D.		
29) Tridecane	8.42	57	0	N.D.		
30) 2-Methyl naphthalene	8.60	142	0	N.D.		
31) Acenaphthylene	9.60	152	0	N.D.		
32) Pentadecane	9.62	57	0	N.D.		
33) Acenaphthene	9.83	153	3335m	0.01	ug	#
34) Fluorene	10.36	166	0	N.D.		
35) Phenanthrene	11.44	178	0	N.D.		
36) Anthracene	11.50	178	0	N.D.		
37) Fluoranthene	12.76	202	0	N.D.		
38) Pyrene	13.02	202	0	N.D.		

Data File : C:\MSDCHEM\#8\74768EJF\569689S.D   Vial: 37
Acq On   : 28 Jun 2008   2:53 am   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

Scan 396 (2.911 min): 20SVOC.D (-384) (-)

Scan 399 (2.932 min): 569689S.D

Scan 399 (2.932 min): 569689S.D (-387) (-)

#9
Benzene
Concen: 0.05 ug m
RT: 2.93 min   Scan# 399
Delta R.T.   0.01 min
Lab File: 569689S.D
Acq: 28 Jun 2008   2:53 am

Tgt Ion: 78 Resp: 12314
Ion Ratio Lower   Upper
 78 100
 51 12.9   13.8   20.6#
 52 12.1   13.7   20.5#

Abundance Ion 77.95 (77.65 to 78.65): 569689S.
  Ion 50.95 (50.65 to 51.65): 569689S.
  Ion 52.05 (51.75 to 52.75): 569689S.

Scan 1358 (9.789 min): 20SVOC.D (-1347) (-)

Scan 1364 (9.802 min): 569689S.D

Scan 1364 (9.832 min): 569689S.D (-1347) (-)

#33
Acenaphthene
Concen: 0.01 ug m
RT: 9.83 min   Scan# 1364
Delta R.T.   0.04 min
Lab File: 569689S.D
Acq: 28 Jun 2008   2:53 am

Tgt Ion:153 Resp: 3335
Ion Ratio Lower   Upper
153 100
154 61.6   78.6   118.0#
152 28.8   42.4   63.6#

Abundance Ion 153.00 (152.70 to 153.70): 569689
  Ion 153.95 (153.65 to 154.65): 569689
  Ion 152.00 (151.70 to 152.70): 569689

```
Data File : C:\MSDCHEM\#8\74768EJF\569690S.D          Vial: 41
Acq On    : 28 Jun 2008    4:45 am                    Operator: DC/DD
Sample    :                                           Inst    : Instrumen
Misc      :                                           Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:56 2008          Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8
```
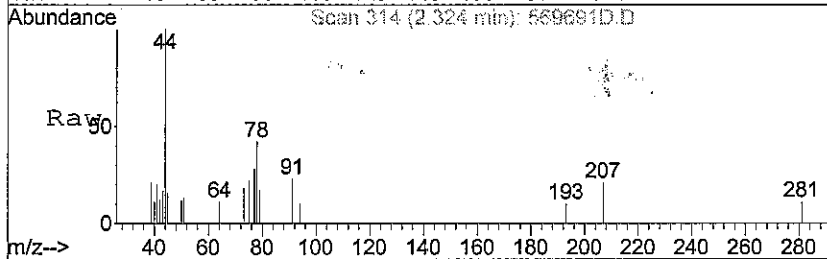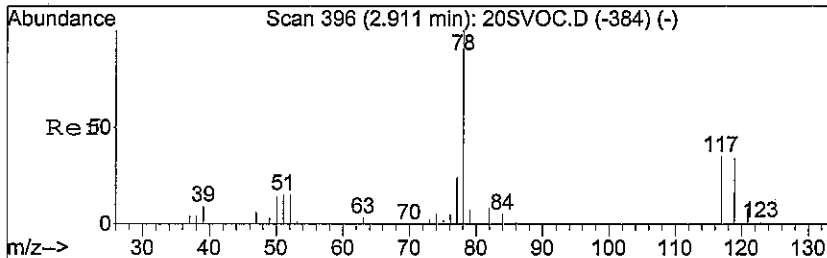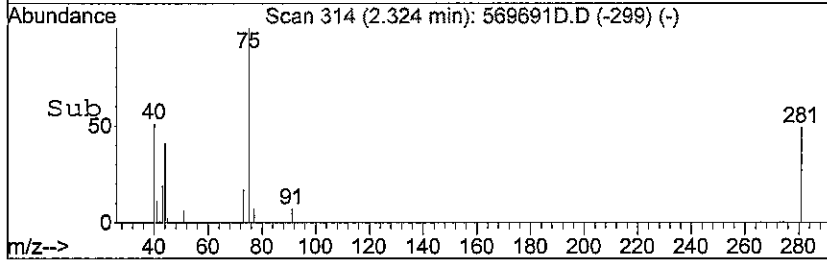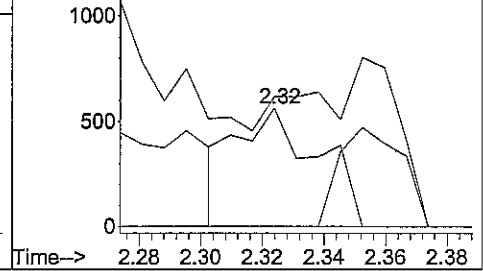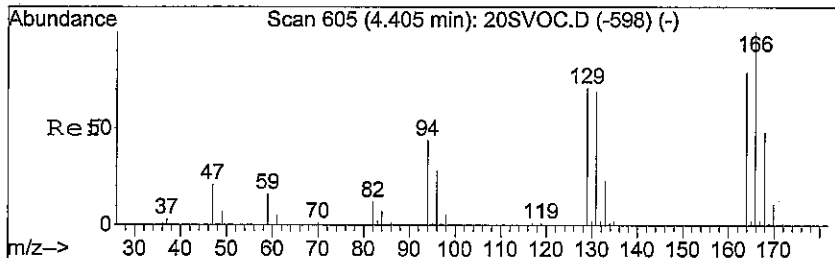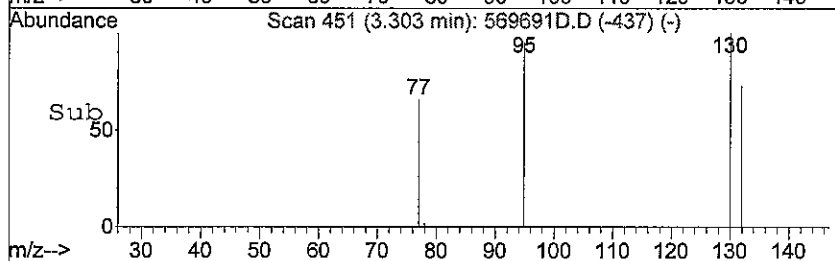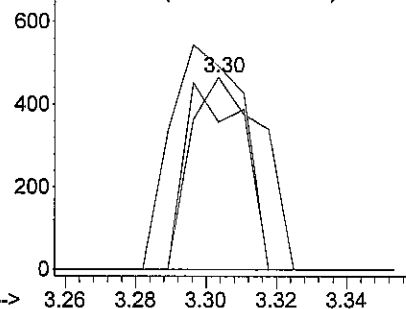
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds						Qvalue
1) Methyl t-butyl ether	2.30	73	0	N.D.		
2) 1,1-Dichloroethene	2.10	61	0	N.D.		
3) trans-1,2-Dichloroethene	2.30	61	0	N.D.		
4) 1,1-Dichloroethane	2.37	63	0	N.D.		
5) cis-1,2-Dichloroethene	2.52	61	0	N.D.		
6) Chloroform	2.64	83	0	N.D.		
7) 1,1,1-Trichloroethane	2.79	97	0	N.D.		
8) 1,2-Dichloroethane	2.87	62	0	N.D.		
9) Benzene	2.92	78	0	N.D.		
10) Carbon tetrachloride	2.92	117	0	N.D.		
11) Trichloroethene	3.28	95	0	N.D.		
12) 1,1,2- Trichloroethane	4.13	97	0	N.D.		
13) Toluene	3.98	91	0	N.D.		
14) Octane	4.29	43	0	N.D.		
15) Tetrachloroethene	4.40	166	0	N.D.		
16) Chlorobenzene	4.86	112	0	N.D.		
17) 1,1,1,2- Tetrachloroethane	4.93	131	0	N.D.		
18) Ethylbenzene	4.99	91	0	N.D.		
19) m,p-Xylene	5.08	91	0	N.D.		
20) o-Xylene	5.32	91	0	N.D.		
21) 1,1,2,2-Tetrachloroethane	5.60	83	0	N.D.		
22) 1,3,5-Trimethylbenzene	6.03	105	0	N.D.		
23) 1,2,4-Trimethylbenzene	6.28	105	842m	0.00	ug	#
24) 1,3-Dichlorobenzene	6.39	146	0	N.D.		
25) 1,4-Dichlorobenzene	6.47	146	0	N.D.		
26) 1,2-Dichlorobenzene	6.63	146	0	N.D.		
27) Undecane	7.06	57	17141m	0.09	ug	#
28) Naphthalene	7.86	128	113479m	0.25	ug	#
29) Tridecane	8.44	57	1159m	0.01	ug	#
30) 2-Methyl naphthalene	8.62	142	163567m	0.47	ug	#
31) Acenaphthylene	9.61	152	66417m	0.11	ug	#
32) Pentadecane	9.62	57	912m	0.00	ug	#
33) Acenaphthene	9.80	153	52510m	0.15	ug	#
34) Fluorene	10.37	166	237412m	0.56	ug	#
35) Phenanthrene	11.44	178	606711m	1.42	ug	#
36) Anthracene	11.50	178	499320m	1.17	ug	#
37) Fluoranthene	12.78	202	58365m	0.14	ug	#
38) Pyrene	13.05	202	39295m	0.09	ug	#

```
Data File : C:\MSDCHEM\#8\74768EJF\569690S.D              Vial: 41
Acq On    : 28 Jun 2008    4:45 am                  Operator: DC/DD
Sample    :                                         Inst    : Instrumen
Misc      :                                         Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53 2008              Quant Results File: A4-8.RES

Method       : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
```

Spectrum panels (top group)

Abundance — Scan 865 (6.264 min): 20SVOC.D (-853) (-)

Re 50

105
120
39 51 65 77 91 146
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180

Abundance — Scan 867 (6.278 min): 569690S.D

Raw 50

44 82 105 115 128 139 155 166 181
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180

Abundance — Scan 867 (6.278 min): 569690S.D (-853) (-)

Sub 50

105
39 181
82 115 141 156 169
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180

#23
1,2,4-Trimethylbenzene
Concen: 0.00 ug m
RT: 6.28 min   Scan# 867
Delta R.T.   0.02 min
Lab File: 569690S.D
Acq: 28 Jun 2008   4:45 am

Tgt Ion:105 Resp: 842

Ion	Ratio	Lower	Upper
105	100		
120	15.3	42.9	64.3#
77	0.0	11.9	17.9#

Abundance Ion 105.05 (104.75 to 105.75): 569690
Ion 120.05 (119.75 to 120.75): 569690
Ion 76.95 (76.65 to 77.65): 569690S.

800
600
400
200
0
6.28
Time--> 6.22 6.24 6.26 6.28 6.30 6.32

Spectrum panels (bottom group)

Abundance — Scan 973 (7.037 min): 20SVOC.D (-964) (-)

Re 50

43 57 71 85 98 113 127 140 156
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180

Abundance — Scan 976 (7.058 min): 569690S.D

Raw 50

43 57 71 85 98 115 128 139 156 165 182
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180

Abundance — Scan 976 (7.058 min): 569690S.D (-961) (-)

Sub 50

43 57 71 85 98 113 127 139 156 170 182
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180
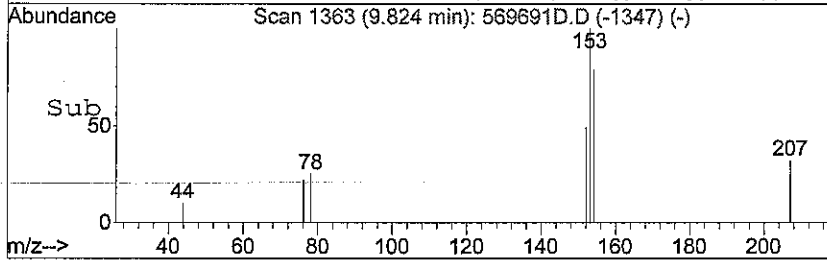
#27
Undecane
Concen: 0.09 ug m
RT: 7.06 min   Scan# 976
Delta R.T.   0.03 min
Lab File: 569690S.D
Acq: 28 Jun 2008   4:45 am

Tgt Ion: 57 Resp: 17141

Ion	Ratio	Lower	Upper
57	100		
43	83.1	66.6	100.0
71	49.0	44.7	67.1

Abundance Ion 57.00 (56.70 to 57.70): 569690S.
Ion 43.00 (42.70 to 43.70): 569690S.
Ion 71.00 (70.70 to 71.70): 569690S.

10000
5000
0
7.06
Time--> 7.00 7.05 7.10 7.15

Scan 1086 (7.845 min): 20SVOC.D (-1056) (-)

Abundance — Re.50 / m/z-->

Scan 1088 (7.858 min): 569690S.D

Abundance — Raw 50

Scan 1088 (7.858 min): 569690S.D (-1075) (-)

Abundance — Sub 50

#28
Naphthalene
Concen: 0.25 ug m
RT: 7.86 min   Scan# 1088
Delta R.T.   0.01 min
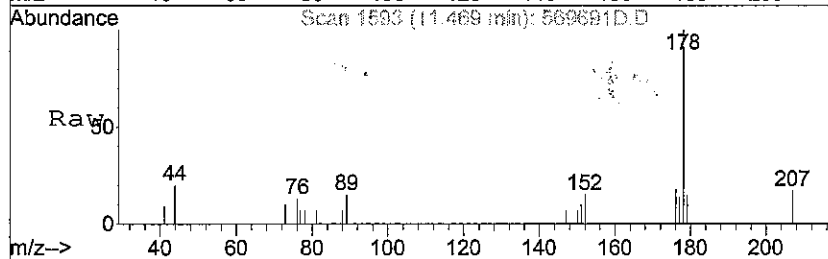Lab File: 569690S.D
Acq: 28 Jun 2008   4:45 am

Tgt Ion:128	Resp:	113479	
Ion	Ratio	Lower	Upper
128	100		
102	7.9	10.1	15.1#
127	8.6	14.2	21.4#

Abundance Ion 127.95 (127.65 to 128.65): 569690
Ion 101.95 (101.65 to 102.65): 569690
Ion 127.00 (126.70 to 127.70): 569690

7.86

Time--> 7.70 7.80 7.90 8.00

Scan 1167 (8.424 min): 20SVOC.D (-1160) (-)

Abundance — Re.50 / m/z-->

Scan 1169 (8.438 min): 569690S.D

Abundance — Raw 50

Scan 1169 (8.438 min): 569690S.D (-1155) (-)

Abundance — Sub 50

#29
Tridecane
Concen: 0.01 ug m
RT: 8.44 min   Scan# 1169
Delta R.T.   0.02 min
Lab File: 569690S.D
Acq: 28 Jun 2008   4:45 am

Tgt Ion: 57	Resp:	1159	
Ion	Ratio	Lower	Upper
57	100		
43	0.0	61.8	92.8#
71	24.1	54.4	81.6#

Abundance Ion 57.00 (56.70 to 57.70): 569690S.
Ion 43.10 (42.80 to 43.80): 569690S.
Ion 71.00 (70.70 to 71.70): 569690S.

8.44

Time--> 8.38 8.40 8.42 8.44 8.46 8.48

Top left panels (spectra for compound #30):

Abundance — Scan 1192 (8.603 min): 20SVOC.D (-1179) (-)
Re 50
142
115
39 50 63 75 89 99 126 160
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200

Abundance — Scan 1194 (8.616 min): 569690S.D
Raw 50
142
115
39 51 62 71 89 99 126 152 165 178 196
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200

Abundance — Scan 1194 (8.616 min): 569690S.D (-1181) (-)
Sub 50
142
115
39 50 63 75 89 102 126 154 168 179 196
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200

Top right panel:

#30
2-Methyl naphthalene
Concen: 0.47 ug m
RT: 8.62 min   Scan# 1194
Delta R.T.   0.01 min
Lab File: 569690S.D
Acq: 28 Jun 2008   4:45 am

Tgt Ion:142 Resp: 163567

Ion	Ratio	Lower	Upper
142	100		
141	59.5	69.2	103.8#
115	20.3	29.8	44.8#

Abundance Ion 141.95 (141.65 to 142.65): 569690
80000 Ion 140.95 (140.65 to 141.65): 569690
Ion 114.95 (114.65 to 115.65): 569690
60000
8.62
40000
20000
0
Time--> 8.40 8.50 8.60 8.70

Bottom left panels (spectra for compound #31):

Abundance — Scan 1332 (9.604 min): 20SVOC.D (-1319) (-)
Re 50
152
43 57 76 87 98 113 126 138 166 182 212
m/z--> 40 60 80 100 120 140 160 180 200

Abundance — Scan 1333 (9.610 min): 569690S.D
Raw 50
152
41 51 63 76 86 98 115 126 141 165 178 191 207
m/z--> 40 60 80 100 120 140 160 180 200

Abundance — Scan 1333 (9.610 min): 569690S.D (-1321) (-)
Sub 50
152
39 50 63 76 86 98 111 121 165 182 193 207
m/z--> 40 60 80 100 120 140 160 180 200

Bottom right panel:

#31
Acenaphthylene
Concen: 0.11 ug m
RT: 9.61 min   Scan# 1333
Delta R.T.   0.01 min
Lab File: 569690S.D
Acq: 28 Jun 2008   4:45 am

Tgt Ion:152 Resp: 66417

Ion	Ratio	Lower	Upper
152	100		
76	11.5	12.6	18.8#
151	16.8	21.7	32.5#

Abundance Ion 152.00 (151.70 to 152.70): 569690
40000 Ion 75.95 (75.65 to 76.65): 569690S.
Ion 151.00 (150.70 to 151.70): 569690
9.61
30000
20000
10000
0
Time--> 9.50 9.55 9.60 9.65 9.70

#32
Pentadecane
Concen: 0.00 ug m
RT: 9.62 min   Scan# 1335
Delta R.T.   0.01 min
Lab File: 569690S.D
Acq: 28 Jun 2008   4:45 am

Tgt Ion: 57 Resp: 912
Ion   Ratio   Lower   Upper
 57   100
 43   0.0   57.7   86.5#
 71   0.0   58.2   87.2#

#33
Acenaphthene
Concen: 0.15 ug m
RT: 9.80 min   Scan# 1359
Delta R.T.   0.01 min
Lab File: 569690S.D
Acq: 28 Jun 2008   4:45 am

Tgt Ion:153 Resp: 52510
Ion   Ratio   Lower   Upper
153   100
154   81.8   78.6   118.0
152   40.8   42.4   63.6#

#34
Fluorene
Concen: 0.56 ug m
RT: 10.37 min   Scan# 1439
Delta R.T.   0.01 min
Lab File: 569690S.D
Acq: 28 Jun 2008   4:45 am

Tgt Ion:166 Resp: 237412

Ion	Ratio	Lower	Upper
166	100		
165	78.0	73.4	110.2
82	18.5	13.8	20.8

#35
Phenanthrene
Concen: 1.42 ug m
RT: 11.44 min   Scan# 1589
Delta R.T.   0.00 min
Lab File: 569690S.D
Acq: 28 Jun 2008   4:45 am

Tgt Ion:178 Resp: 606711

Ion	Ratio	Lower	Upper
178	100		
152	8.4	7.0	10.6
179	13.5	12.9	19.3

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#36
Anthracene
Concen: 1.17 ug m
RT: 11.50 min   Scan# 1597
Delta R.T.   -0.01 min
Lab File: 569690S.D
Acq: 28 Jun 2008   4:45 am

Tgt Ion:178 Resp: 499320

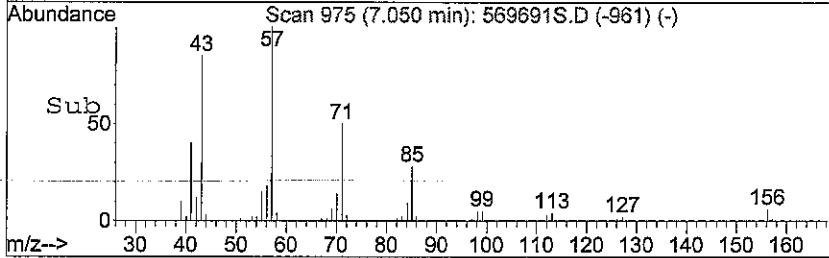| Ion	Ratio	Lower	Upper
178	100		
152	6.4	6.2	9.4
179	12.4	12.1	18.1

#37
Fluoranthene
Concen: 0.14 ug m
RT: 12.78 min   Scan# 1777
Delta R.T.   0.03 min
Lab File: 569690S.D
Acq: 28 Jun 2008   4:45 am

Tgt Ion:202 Resp: 58365

Ion	Ratio	Lower	Upper
202	100		
101	12.2	10.0	15.0
203	14.0	13.8	20.6

Scan 2684 (14.134 min): PAH.D (-)

Scan 1814 (13.049 min): 569690S.D

Scan 1814 (13.049 min): 569690S.D (-1799) (-)

#38
Pyrene
Concen: 0.09 ug m
RT: 13.05 min   Scan# 1814
Delta R.T.   0.03 min
Lab File: 569690S.D
Acq: 28 Jun 2008   4:45 am

Tgt Ion:202 Resp: 39295
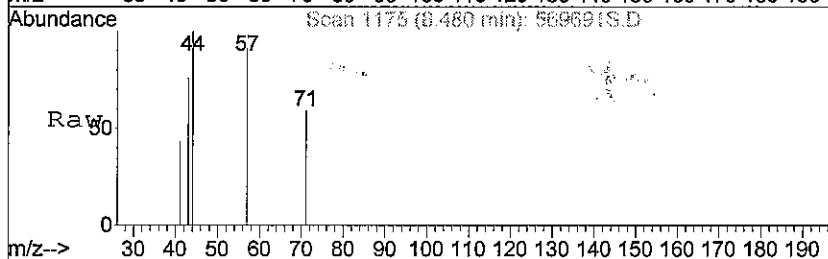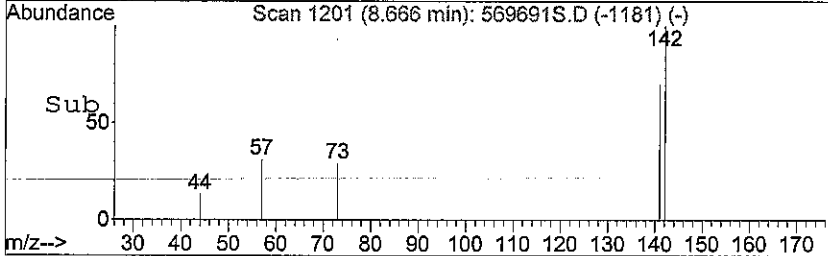Ion Ratio   Lower   Upper
202 100
101   15.9   12.5   18.7
203   16.2   12.5   18.7

Ion 202.00 (201.70 to 202.70): 569690
Ion 101.05 (100.75 to 101.75): 569690
Ion 203.00 (202.70 to 203.70): 569690

13.05

```
Data File : C:\MSDCHEM\#8\74768EJF\569691D.D        Vial: 45
Acq On    : 28 Jun 2008   6:37 am                   Operator: DC/DD
Sample    :                                         Inst    : Instrumen
Misc      :                                         Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:56 2008          Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8
```

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds						Qvalue
1) Methyl t-butyl ether	2.32	73	1053m	0.01	ug	#
2) 1,1-Dichloroethene	2.10	61	0	N.D.		
3) trans-1,2-Dichloroethene	2.30	61	0	N.D.		
4) 1,1-Dichloroethane	2.37	63	0	N.D.		
5) cis-1,2-Dichloroethene	2.52	61	0	N.D.		
6) Chloroform	2.64	83	0	N.D.		
7) 1,1,1-Trichloroethane	2.79	97	0	N.D.		
8) 1,2-Dichloroethane	2.87	62	0	N.D.		
9) Benzene	2.94	78	12199m	0.05	ug	#
10) Carbon tetrachloride	2.92	117	0	N.D.		
11) Trichloroethene	3.30	95	662m	0.01	ug	#
12) 1,1,2- Trichloroethane	4.13	97	0	N.D.		
13) Toluene	3.98	91	0	N.D.		
14) Octane	4.29	43	0	N.D.		
15) Tetrachloroethene	4.43	166	1507m	0.02	ug	#
16) Chlorobenzene	4.86	112	0	N.D.		
17) 1,1,1,2- Tetrachloroethane	4.93	131	0	N.D.		
18) Ethylbenzene	4.99	91	0	N.D.		
19) m,p-Xylene	5.08	91	0	N.D.		
20) o-Xylene	5.32	91	0	N.D.		
21) 1,1,2,2-Tetrachloroethane	5.60	83	0	N.D.		
22) 1,3,5-Trimethylbenzene	6.03	105	0	N.D.		
23) 1,2,4-Trimethylbenzene	6.26	105	0	N.D.		
24) 1,3-Dichlorobenzene	6.39	146	0	N.D.		
25) 1,4-Dichlorobenzene	6.47	146	0	N.D.		
26) 1,2-Dichlorobenzene	6.63	146	0	N.D.		
27) Undecane	7.10	57	25707m	0.14	ug	#
28) Naphthalene	7.84	128	0	N.D.		
29) Tridecane	8.42	57	0	N.D.		
30) 2-Methyl naphthalene	8.60	142	0	N.D.		
31) Acenaphthylene	9.60	152	0	N.D.		
32) Pentadecane	9.62	57	0	N.D.		
33) Acenaphthene	9.82	153	3181m	0.01	ug	#
34) Fluorene	10.36	166	0	N.D.		
35) Phenanthrene	11.47	178	11892m	0.03	ug	#
36) Anthracene	0.00	178	0	N.D. d		
37) Fluoranthene	12.80	202	4731m	0.01	ug	#
38) Pyrene	13.06	202	4296m	0.01	ug	#

Data File : C:\MSDCHEM\#8\74768EJF\569691D.D   Vial: 45
Acq On   : 28 Jun 2008   6:37 am   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 15:07 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

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#1
Methyl t-butyl ether
Concen: 0.01 ug m
RT: 2.32 min   Scan# 314
Delta R.T.   0.03 min
Lab File: 569691D.D
Acq: 28 Jun 2008   6:37 am

Tgt Ion: 73 Resp: 1053
Ion   Ratio   Lower   Upper
 73   100
 57   0.0   17.9   26.9#
 41   0.0   16.6   24.8#

#9
Benzene
Concen: 0.05 ug m
RT: 2.94 min   Scan# 400
Delta R.T.   0.01 min
Lab File: 569691D.D
Acq: 28 Jun 2008   6:37 am

Tgt Ion: 78 Resp: 12199
Ion   Ratio   Lower   Upper
 78   100
 51   16.5   13.8   20.6
 52   15.1   13.7   20.5

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#11
Trichloroethene
Concen: 0.01 ug m
RT: 3.30 min   Scan# 451
Delta R.T.   0.02 min
Lab File: 569691D.D
Acq: 28 Jun 2008   6:37 am

Tgt Ion: 95 Resp: 662
Ion   Ratio   Lower   Upper
 95   100
132   77.6   80.2   120.4#
130   116.6   82.3   123.5

#15
Tetrachloroethene
Concen: 0.02 ug m
RT: 4.43 min   Scan# 608
Delta R.T.   0.02 min
Lab File: 569691D.D
Acq: 28 Jun 2008   6:37 am

Tgt Ion:166 Resp: 1507
Ion   Ratio   Lower   Upper
166   100
129   45.1   55.0   82.6#
 94   19.2   29.9   44.9#

Scan 973 (7.037 min): 20SVOC.D (-964) (-)
Abundance — Res — m/z-->
43, 57, 71, 85, 36, 98, 113, 127, 140, 156

Scan 982 (7.100 min): 569691D.D
Abundance — Raw — m/z-->
43, 57, 71, 85, 98, 156

Scan 982 (7.100 min): 569691D.D (-961) (-)
Abundance — Sub — m/z-->
43, 57, 71, 85, 98, 156

#27
Undecane
Concen: 0.14 ug m
RT: 7.10 min   Scan# 982
Delta R.T.   0.07 min
Lab File: 569691D.D
Acq: 28 Jun 2008   6:37 am

Tgt Ion: 57	Resp:	25707	
Ion	Ratio	Lower	Upper
57	100		
43	0.0	66.6	100.0#
71	0.0	44.7	67.1#

Abundance Ion 57.00 (56.70 to 57.70): 569691D.
Ion 43.00 (42.70 to 43.70): 569691D.
Ion 71.00 (70.70 to 71.70): 569691D.
7.10
Time--> 7.00 7.05 7.10 7.15 7.20 7.25

Scan 1358 (9.789 min): 20SVOC.D (-1347) (-)
Abundance — Res — m/z-->
153, 76, 39, 51, 63, 87, 102, 113, 126, 139, 165

Scan 1363 (9.824 min): 569691D.D
Abundance — Raw — m/z-->
153, 44, 78, 207

Scan 1363 (9.824 min): 569691D.D (-1347) (-)
Abundance — Sub — m/z-->
153, 44, 78, 207

#33
Acenaphthene
Concen: 0.01 ug m
RT: 9.82 min   Scan# 1363
Delta R.T.   0.04 min
Lab File: 569691D.D
Acq: 28 Jun 2008   6:37 am

Tgt Ion:153	Resp:	3181	
Ion	Ratio	Lower	Upper
153	100		
154	77.4	78.6	118.0#
152	42.5	42.4	63.6

Abundance Ion 153.00 (152.70 to 153.70): 569691
Ion 153.96 (153.65 to 154.65): 569691
Ion 152.00 (151.70 to 152.70): 569691
9.82
Time--> 9.75   9.80   9.85

Top left spectra (Phenanthrene):

Scan 2244 (12.487 min): PAH.D (-)
Abundance — Res 50 / 0
178
39 50 63 76 89 99 111 125 139 152 163
m/z--> 40 60 80 100 120 140 160 180 200

Scan 1593 (11.469 min): 569691D.D
Abundance — Raw 50 / 0
178
44 76 89 152 207
m/z--> 40 60 80 100 120 140 160 180 200

Scan 1593 (11.469 min): 569691D.D (-1578) (-)
Abundance — Sub 50 / 0
178
41 76 89 152 207
m/z--> 40 60 80 100 120 140 160 180 200

Top right (#35 Phenanthrene):

#35
Phenanthrene
Concen: 0.03 ug m
RT: 11.47 min   Scan# 1593
Delta R.T.   0.03 min
Lab File: 569691D.D
Acq: 28 Jun 2008   6:37 am

Tgt Ion:178 Resp: 11892

Ion	Ratio	Lower	Upper
178	100		
152	10.1	7.0	10.6
179	14.1	12.9	19.3

Abundance Ion 178.05 (177.75 to 178.75): 569691
Ion 152.00 (151.70 to 152.70): 569691
Ion 179.05 (178.75 to 179.75): 569691
6000 / 4000 / 2000 / 0
11.47
Time--> 11.40 11.45 11.50

Bottom left spectra (Fluoranthene):

Scan 2608 (13.850 min): PAH.D (-)
Abundance — Res 50 / 0
202
75 88 101 150 174
m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Scan 1779 (12.799 min): 569691D.D
Abundance — Raw 50 / 0
207
44 73 100 147 191 281
m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Scan 1779 (12.799 min): 569691D.D (-1762) (-)
Abundance — Sub 50 / 0
202
100 147 283
m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Bottom right (#37 Fluoranthene):

#37
Fluoranthene
Concen: 0.01 ug m
RT: 12.80 min   Scan# 1779
Delta R.T.   0.04 min
Lab File: 569691D.D
Acq: 28 Jun 2008   6:37 am

Tgt Ion:202 Resp: 4731

Ion	Ratio	Lower	Upper
202	100		
101	2.9	10.0	15.0#
203	8.1	13.8	20.6#

Abundance Ion 202.00 (201.70 to 202.70): 569691
Ion 101.05 (100.75 to 101.75): 569691
Ion 203.00 (202.70 to 203.70): 569691
2500 / 2000 / 1500 / 1000 / 500 / 0
12.80
Time--> 12.75 12.80 12.85

Ref
202
101
75 88
150 174
281
m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Abundance | Scan 1816 (13.063 min): 569691D.D
207
Raw
44
73
96
133
193
230
281
m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Abundance | Scan 1816 (13.063 min): 569691D.D (-1799) (-)
202
230
Sub
96
282
44 73
m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

#38
Pyrene
Concen: 0.01 ug m
RT: 13.06 min   Scan# 1816
Delta R.T.   0.04 min
Lab File: 569691D.D
Acq: 28 Jun 2008   6:37 am

Tgt Ion:202 Resp:			4296
Ion	Ratio	Lower	Upper
202	100		
101	6.9	12.5	18.7#
203	3.4	12.5	18.7#

Abundance Ion 202.00 (201.70 to 202.70): 569691
Ion 101.05 (100.75 to 101.75): 569691
2000 Ion 203.00 (202.70 to 203.70): 569691
13.06
1500
1000
500
0
Time--> 12.95 13.00 13.05 13.10 13.15

```
Data File : C:\MSDCHEM\#8\74768EJF\569691S.D          Vial: 44
Acq On    : 28 Jun 2008   6:09 am                     Operator: DC/DD
Sample    :                                           Inst    : Instrumen
Misc      :                                           Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:57 2008          Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8
```

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds						Qvalue
1) Methyl t-butyl ether	2.30	73	0	N.D.		
2) 1,1-Dichloroethene	2.10	61	0	N.D.		
3) trans-1,2-Dichloroethene	2.30	61	0	N.D.		
4) 1,1-Dichloroethane	2.37	63	0	N.D.		
5) cis-1,2-Dichloroethene	2.52	61	0	N.D.		
6) Chloroform	2.64	83	0	N.D.		
7) 1,1,1-Trichloroethane	2.79	97	0	N.D.		
8) 1,2-Dichloroethane	2.87	62	0	N.D.		
9) Benzene	2.94	78	5484m	0.02	ug	#
10) Carbon tetrachloride	2.92	117	0	N.D.		
11) Trichloroethene	3.28	95	0	N.D.		
12) 1,1,2- Trichloroethane	4.13	97	0	N.D.		
13) Toluene	3.98	91	0	N.D.		
14) Octane	4.29	43	0	N.D.		
15) Tetrachloroethene	4.40	166	0	N.D.		
16) Chlorobenzene	4.86	112	0	N.D.		
17) 1,1,1,2- Tetrachloroethane	4.93	131	0	N.D.		
18) Ethylbenzene	4.99	91	0	N.D.		
19) m,p-Xylene	5.08	91	0	N.D.		
20) o-Xylene	5.32	91	0	N.D.		
21) 1,1,2,2-Tetrachloroethane	5.60	83	0	N.D.		
22) 1,3,5-Trimethylbenzene	6.03	105	0	N.D.		
23) 1,2,4-Trimethylbenzene	6.26	105	0	N.D.		
24) 1,3-Dichlorobenzene	6.39	146	0	N.D.		
25) 1,4-Dichlorobenzene	6.47	146	0	N.D.		
26) 1,2-Dichlorobenzene	6.63	146	0	N.D.		
27) Undecane	7.05	57	165739m	0.89	ug	#
28) Naphthalene	7.84	128	0	N.D.		
29) Tridecane	8.48	57	1629m	0.01	ug	#
30) 2-Methyl naphthalene	8.67	142	2381m	0.01	ug	#
31) Acenaphthylene	9.60	152	0	N.D.		
32) Pentadecane	9.59	57	443m	0.00	ug	#
33) Acenaphthene	9.82	153	3128m	0.01	ug	#
34) Fluorene	10.36	166	0	N.D.		
35) Phenanthrene	11.47	178	15296m	0.04	ug	#
36) Anthracene	11.53	178	6887m	0.02	ug	#
37) Fluoranthene	12.79	202	5722m	0.01	ug	#
38) Pyrene	13.05	202	5993m	0.01	ug	#

Data File : C:\MSDCHEM\#8\74768EJF\569691S.D   Vial: 44
Acq On   : 28 Jun 2008   6:09 am   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

#9
Benzene
Concen: 0.02 ug m
RT: 2.94 min   Scan# 400
Delta R.T.   0.01 min
Lab File: 569691S.D
Acq: 28 Jun 2008   6:09 am

Tgt Ion: 78	Resp:		5484
Ion	Ratio	Lower	Upper
78	100		
51	4.9	13.8	20.6#
52	8.8	13.7	20.5#

Abundance Ion 77.95 (77.65 to 78.65): 569691S.D
Ion 50.95 (50.65 to 51.65): 569691S.D
Ion 52.05 (51.75 to 52.75): 569691S.D

#27
Undecane
Concen: 0.89 ug m
RT: 7.05 min   Scan# 975
Delta R.T.   0.02 min
Lab File: 569691S.D
Acq: 28 Jun 2008   6:09 am

Tgt Ion: 57	Resp:		165739
Ion	Ratio	Lower	Upper
57	100		
43	61.5	66.6	100.0#
71	36.4	44.7	67.1#

Abundance Ion 57.00 (56.70 to 57.70): 569691S.D
Ion 43.00 (42.70 to 43.70): 569691S.D
Ion 71.00 (70.70 to 71.70): 569691S.D

#29 (Tridecane)

Abundance — Scan 1167 (8.424 min): 20SVOC.D (-1160) (-)

Res 50

43 57 71 85 99 112 126 140 154 169 184

m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190

Abundance — Scan 1175 (8.480 min): 569691S.D

Raw 50

44 57 71

m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190

Abundance — Scan 1175 (8.480 min): 569691S.D (-1155) (-)

Sub 50

43 57 71

m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190

#29
Tridecane
Concen: 0.01 ug m
RT: 8.48 min   Scan# 1175
Delta R.T.   0.06 min
Lab File: 569691S.D
Acq: 28 Jun 2008   6:09 am

Tgt Ion: 57	Resp:		1629
Ion	Ratio	Lower	Upper
57	100		
43	0.0	61.8	92.8#
71	0.0	54.4	81.6#

Abundance Ion 57.00 (56.70 to 57.70): 569691S.
Ion 43.10 (42.80 to 43.80): 569691S.
Ion 71.00 (70.70 to 71.70): 569691S.

800
600
400
200
0

8.48

Time--> 8.45   8.50   8.55

#30 (2-Methyl naphthalene)

Abundance — Scan 1192 (8.603 min): 20SVOC.D (-1179) (-)

Res 50

142 115 39 50 63 71 79 89 98 126 134 150 160

m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

Abundance — Scan 1201 (8.666 min): 569691S.D

Raw 50

44 142 57 73

m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

Abundance — Scan 1201 (8.666 min): 569691S.D (-1181) (-)

Sub 50

142 57 73 44

m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

#30
2-Methyl naphthalene
Concen: 0.01 ug m
RT: 8.67 min   Scan# 1201
Delta R.T.   0.06 min
Lab File: 569691S.D
Acq: 28 Jun 2008   6:09 am

Tgt Ion:142	Resp:		2381
Ion	Ratio	Lower	Upper
142	100		
141	0.0	69.2	103.8#
115	0.0	29.8	44.8#

Abundance Ion 141.95 (141.65 to 142.65): 569691
Ion 140.95 (140.65 to 141.65): 569691
Ion 114.95 (114.65 to 115.65): 569691

1500
1000
500
0

8.67

Time--> 8.60   8.65   8.70

Scan 1335 (9.625 min): 20SVOC.D (-1327) (-)

Scan 1330 (9.588 min): 569691S.D

Scan 1330 (9.588 min): 569691S.D (-1323) (-)

#32
Pentadecane
Concen: 0.00 ug m
RT: 9.59 min   Scan# 1330
Delta R.T.   -0.03 min
Lab File: 569691S.D
Acq: 28 Jun 2008   6:09 am

Tgt Ion: 57 Resp: 443
Ion   Ratio   Lower   Upper
 57   100
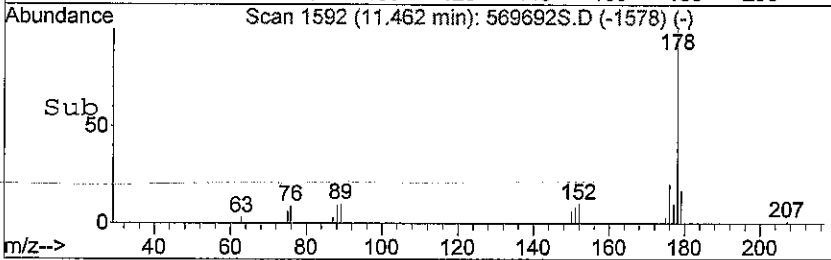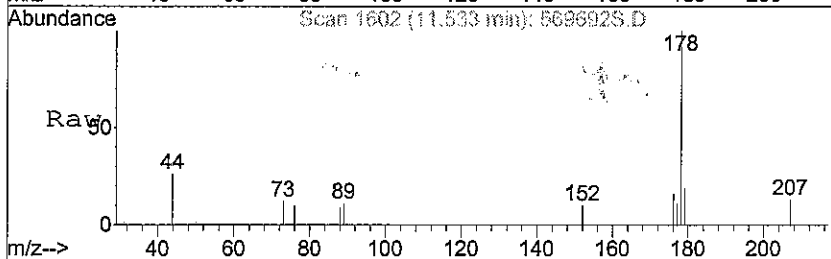 43   32.7   57.7   86.5#
 71   32.5   58.2   87.2#

Abundance Ion 57.00 (56.70 to 57.70): 569691S.D
500 Ion 43.00 (42.70 to 43.70): 569691S.D
     Ion 71.00 (70.70 to 71.70): 569691S.D

Scan 1358 (9.789 min): 20SVOC.D (-1347) (-)

Scan 1363 (9.824 min): 569691S.D

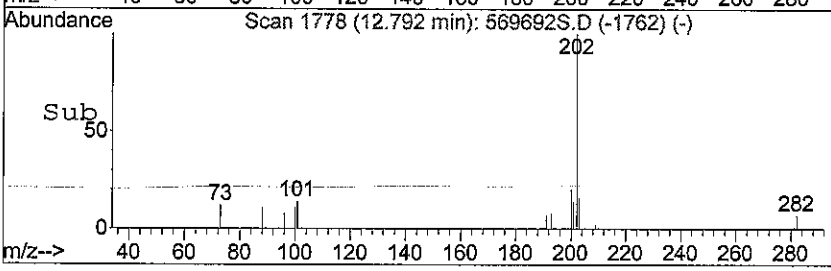Scan 1363 (9.824 min): 569691S.D (-1347) (-)

#33
Acenaphthene
Concen: 0.01 ug m
RT: 9.82 min   Scan# 1363
Delta R.T.   0.04 min
Lab File: 569691S.D
Acq: 28 Jun 2008   6:09 am

Tgt Ion:153 Resp: 3128
Ion   Ratio   Lower   Upper
153   100
154   80.3   78.6   118.0
152   45.0   42.4   63.6

Abundance Ion 153.00 (152.70 to 153.70): 569691
2000 Ion 153.95 (153.65 to 154.65): 569691
     Ion 152.00 (151.70 to 152.70): 569691

Scan 2244 (12.487 min): PAH.D (-)

Abundance — Res

178
39 50 63 76 89 99 111 125 139 152 163
m/z--> 40 60 80 100 120 140 160 180 200

Scan 1593 (11.469 min): 569691S.D

Abundance — Raw

178
44 76 89 152 207
m/z--> 40 60 80 100 120 140 160 180 200

Scan 1593 (11.469 min): 569691S.D (-1578) (-)

Abundance — Sub

178
44 76 89 152
m/z--> 40 60 80 100 120 140 160 180 200

#35
Phenanthrene
Concen: 0.04 ug m
RT: 11.47 min   Scan# 1593
Delta R.T.   0.03 min
Lab File: 569691S.D
Acq: 28 Jun 2008   6:09 am

Tgt Ion:178 Resp: 15296

Ion	Ratio	Lower	Upper
178	100		
152	7.0	7.0	10.6#
179	14.5	12.9	19.3

Abundance Ion 178.05 (177.75 to 178.75): 569691
Ion 152.00 (151.70 to 152.70): 569691
Ion 179.05 (178.75 to 179.75): 569691

11.47

Time--> 11.40   11.45   11.50

Scan 2260 (12.547 min): PAH.D (-)

Abundance — Res

178
39 51 63 76 89 99 110 126 139 152 163
m/z--> 40 60 80 100 120 140 160 180 200

Scan 1602 (11.533 min): 569691S.D

Abundance — Raw

178
44 55 73 91 152 207
m/z--> 40 60 80 100 120 140 160 180 200

Scan 1602 (11.533 min): 569691S.D (-1587) (-)

Abundance — Sub

178
41 55 91 152 207
m/z--> 40 60 80 100 120 140 160 180 200

#36
Anthracene
Concen: 0.02 ug m
RT: 11.53 min   Scan# 1602
Delta R.T.   0.03 min
Lab File: 569691S.D
Acq: 28 Jun 2008   6:09 am

Tgt Ion:178 Resp: 6887

Ion	Ratio	Lower	Upper
178	100		
152	4.5	6.2	9.4#
179	11.4	12.1	18.1#

Abundance Ion 178.05 (177.75 to 178.75): 569691
Ion 152.00 (151.70 to 152.70): 569691
Ion 179.05 (178.75 to 179.75): 569691

11.53

Time--> 11.50   11.55   11.60   11.65

#37
Fluoranthene
Concen: 0.01 ug m
RT: 12.79 min   Scan# 1778
Delta R.T.   0.04 min
Lab File: 569691S.D
Acq: 28 Jun 2008   6:09 am
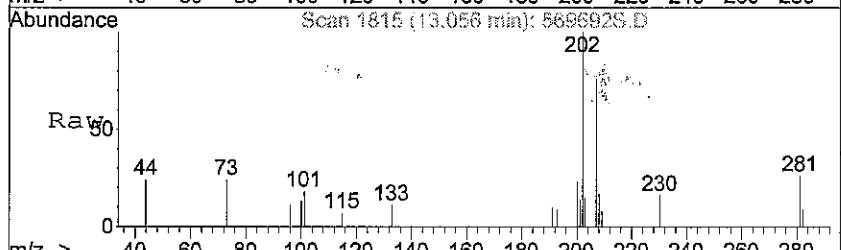
Tgt Ion:202 Resp: 5722

Ion	Ratio	Lower	Upper
202	100		
101	5.7	10.0	15.0#
203	10.2	13.8	20.6#

#38
Pyrene
Concen: 0.01 ug m
RT: 13.05 min   Scan# 1814
Delta R.T.   0.03 min
Lab File: 569691S.D
Acq: 28 Jun 2008   6:09 am

Tgt Ion:202 Resp: 5993

Ion	Ratio	Lower	Upper
202	100		
101	5.1	12.5	18.7#
203	12.9	12.5	18.7

```
Data File : C:\MSDCHEM\#8\74768EJF\569692S.D          Vial: 43
Acq On    : 28 Jun 2008   5:41 am                     Operator: DC/DD
Sample    :                                           Inst    : Instrumen
Misc      :                                           Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:57 2008          Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8
```
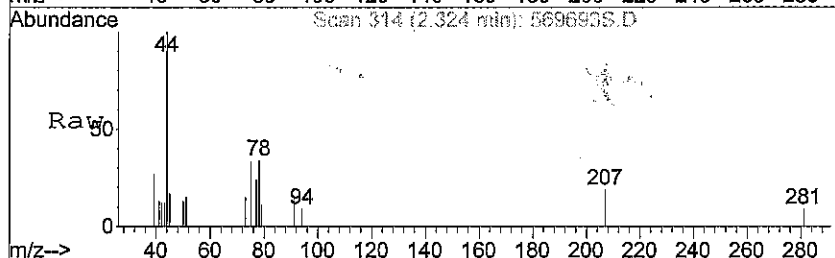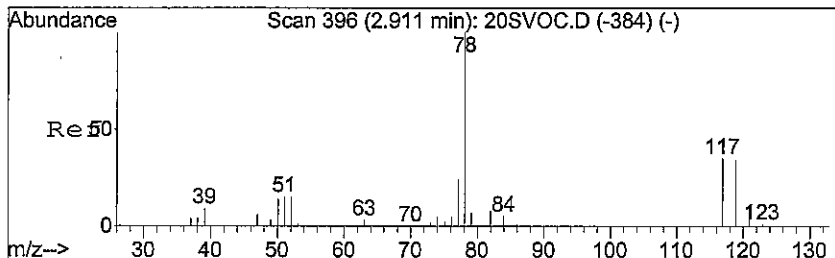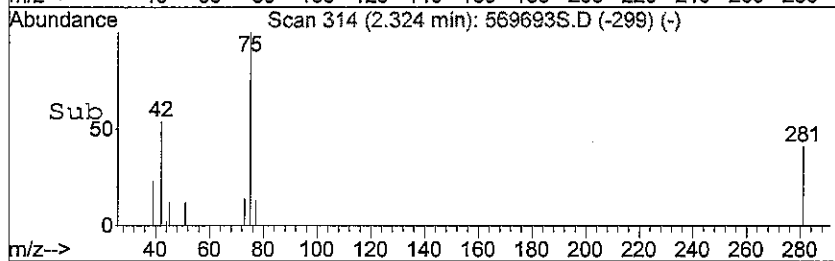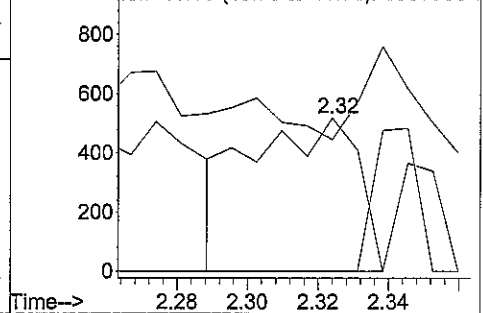
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)

Target Compounds					Qvalue
1) Methyl t-butyl ether	2.32	73	666m	0.00 ug	#
2) 1,1-Dichloroethene	2.10	61	0	N.D.	
3) trans-1,2-Dichloroethene	2.30	61	0	N.D.	
4) 1,1-Dichloroethane	2.37	63	0	N.D.	
5) cis-1,2-Dichloroethene	2.52	61	0	N.D.	
6) Chloroform	2.64	83	0	N.D.	
7) 1,1,1-Trichloroethane	2.79	97	0	N.D.	
8) 1,2-Dichloroethane	2.87	62	0	N.D.	
9) Benzene	2.94	78	7172m	0.03 ug	#
10) Carbon tetrachloride	2.92	117	0	N.D.	
11) Trichloroethene	3.28	95	0	N.D.	
12) 1,1,2- Trichloroethane	4.13	97	0	N.D.	
13) Toluene	3.98	91	0	N.D.	
14) Octane	4.29	43	0	N.D.	
15) Tetrachloroethene	4.43	166	1014m	0.01 ug	#
16) Chlorobenzene	4.86	112	0	N.D.	
17) 1,1,1,2- Tetrachloroethane	4.93	131	0	N.D.	
18) Ethylbenzene	4.99	91	0	N.D.	
19) m,p-Xylene	5.08	91	0	N.D.	
20) o-Xylene	5.32	91	0	N.D.	
21) 1,1,2,2-Tetrachloroethane	5.60	83	0	N.D.	
22) 1,3,5-Trimethylbenzene	6.03	105	0	N.D.	
23) 1,2,4-Trimethylbenzene	6.26	105	0	N.D.	
24) 1,3-Dichlorobenzene	6.39	146	0	N.D.	
25) 1,4-Dichlorobenzene	6.47	146	0	N.D.	
26) 1,2-Dichlorobenzene	6.63	146	0	N.D.	
27) Undecane	7.03	57	0	N.D.	
28) Naphthalene	7.90	128	15288m	0.03 ug	#
29) Tridecane	8.42	57	0	N.D.	
30) 2-Methyl naphthalene	8.67	142	3951m	0.01 ug	#
31) Acenaphthylene	9.60	152	0	N.D.	
32) Pentadecane	9.62	57	0	N.D.	
33) Acenaphthene	9.82	153	6165m	0.02 ug	#
34) Fluorene	10.40	166	7922m	0.02 ug	#
35) Phenanthrene	11.46	178	33038m	0.08 ug	#
36) Anthracene	11.53	178	15067m	0.04 ug	#
37) Fluoranthene	12.79	202	13874m	0.03 ug	#
38) Pyrene	13.06	202	11880m	0.03 ug	#

Data File : C:\MSDCHEM\#8\74768EJF\569692S.D   Vial: 43
Acq On   : 28 Jun 2008   5:41 am   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

569692S.D   A4-8.M   Wed Jul 02 10:37:03 2008   RPT1   Page 2

Top right panel (#15):

```
#15
Tetrachloroethene
Concen:      0.01 ug m
RT: 4.43 min   Scan# 609
Delta R.T.    0.03 min
Lab File:     569692S.D
Acq: 28 Jun 2008    5:41 am

Tgt Ion:166  Resp:      1014
Ion   Ratio   Lower    Upper
166   100
129    34.1    55.0     82.6#
 94    16.6    29.9     44.9#
```

Spectra panels left:
- Scan 605 (4.405 min): 20SVOC.D (-598) (-) — Abundance/Rel — peaks: 37, 47, 59, 70, 82, 94, 119, 129, 166
- Scan 609 (4.433 min): 569692S.D — Abundance/Raw — peaks: 44, 78, 131, 166
- Scan 609 (4.433 min): 569692S.D (-594) (-) — Abundance/Sub — peaks: 78, 131, 166

Chromatogram:
```
Abundance Ion 165.80 (165.50 to 166.50): 569692
          Ion 128.75 (128.45 to 129.45): 569692
          Ion 93.85 (93.55 to 94.55): 569692S.
       4.43
```

Second right panel (#28):

```
#28
Naphthalene
Concen:      0.03 ug m
RT: 7.90 min   Scan# 1094
Delta R.T.    0.06 min
Lab File:     569692S.D
Acq: 28 Jun 2008    5:41 am

Tgt Ion:128  Resp:     15288
Ion   Ratio   Lower    Upper
128   100
102     0.0    10.1     15.1#
127     0.0    14.2     21.4#
```

Spectra panels left:
- Scan 1086 (7.845 min): 20SVOC.D (-1056) (-) — Abundance/Rel — peaks: 39, 51, 64, 75, 87, 96, 102, 108, 114, 120, 128, 134
- Scan 1094 (7.901 min): 569692S.D — Abundance/Raw — peaks: 44, 51, 57, 64, 78, 102, 128
- Scan 1094 (7.901 min): 569692S.D (-1075) (-) — Abundance/Sub — peaks: 51, 57, 64, 78, 102, 128

Chromatogram:
```
Abundance Ion 127.95 (127.65 to 128.65): 569692
          Ion 101.95 (101.65 to 102.65): 569692
          Ion 127.00 (126.70 to 127.70): 569692
       7.90
```
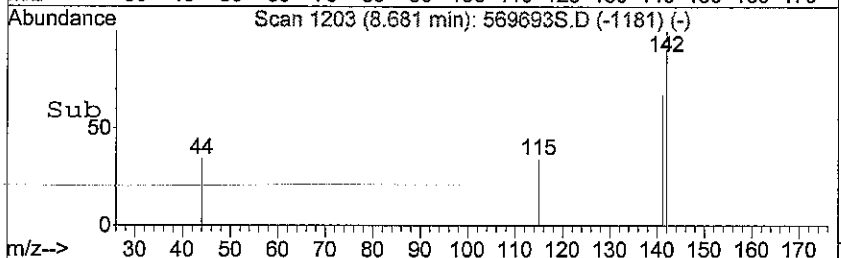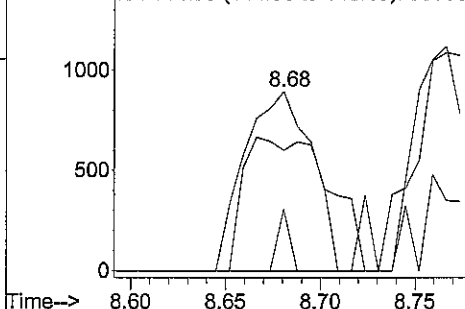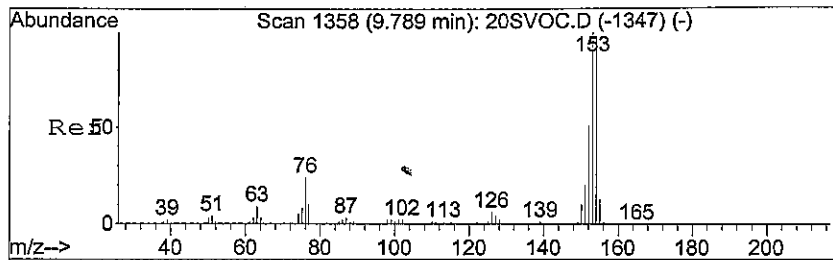
Re 50
142
115
39 50 63 71 79 89 98 126 134 150 160
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

Abundance   Scan 1201 (8.666 min): 569692S.D
142
Raw 50
44
115
69 78
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

Abundance   Scan 1201 (8.666 min): 569692S.D (-1181) (-)
142
Sub 50
115
41
69 78
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

#30
2-Methyl naphthalene
Concen: 0.01 ug m
RT: 8.67 min   Scan# 1201
Delta R.T.   0.06 min
Lab File: 569692S.D
Acq: 28 Jun 2008   5:41 am

Tgt Ion:142	Resp:		3951
Ion	Ratio	Lower	Upper
142	100		
141	0.0	69.2	103.8#
115	0.0	29.8	44.8#

Abundance Ion 141.95 (141.65 to 142.65): 569692
Ion 140.95 (140.65 to 141.65): 569692
Ion 114.95 (114.65 to 115.65): 569692
2000
8.67
1500
1000
500
0
Time--> 8.60   8.65   8.70

Abundance   Scan 1358 (9.789 min): 20SVOC.D (-1347) (-)
153
Re 50
76
39 51 63 87 102 110 126 139 165
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

Abundance   Scan 1363 (9.825 min): 569692S.D
154
Raw 50
44
76
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

Abundance   Scan 1363 (9.825 min): 569692S.D (-1347) (-)
154
Sub 50
76
44
m/z--> 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

#33
Acenaphthene
Concen: 0.02 ug m
RT: 9.82 min   Scan# 1363
Delta R.T.   0.04 min
Lab File: 569692S.D
Acq: 28 Jun 2008   5:41 am

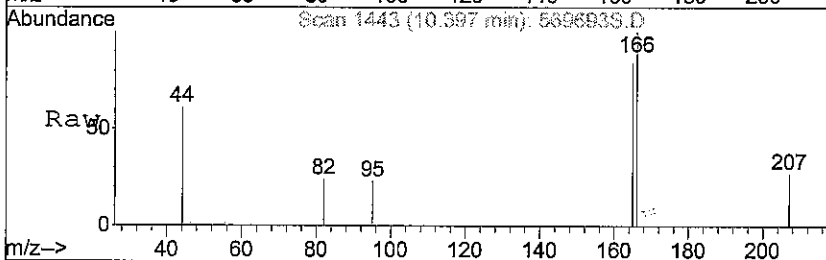| Tgt Ion:153	Resp:		6165
Ion	Ratio	Lower	Upper
153	100		
154	87.8	78.6	118.0
152	45.5	42.4	63.6

Abundance Ion 153.00 (152.70 to 153.70): 569692
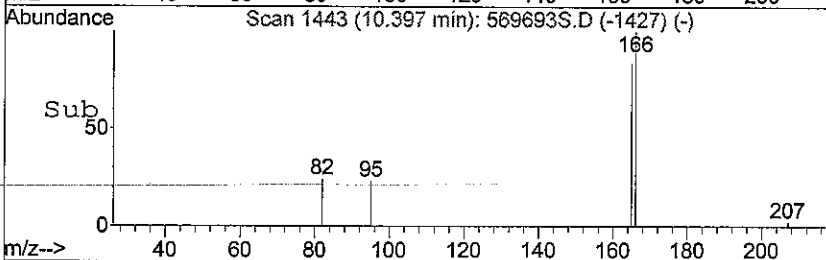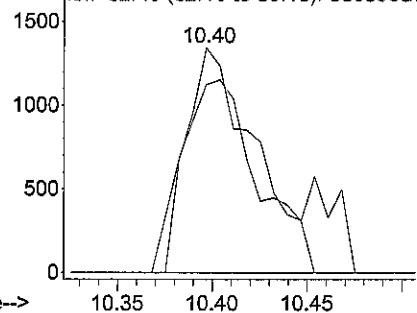Ion 153.95 (153.65 to 154.65): 569692
Ion 152.00 (151.70 to 152.70): 569692
4000
3000
9.82
2000
1000
0
Time--> 9.75   9.80   9.85   9.90

Scan 1438 (10.361 min): 20SVOC.D (-1428) (-)

Scan 1444 (10.404 min): 569692S.D

Scan 1444 (10.404 min): 569692S.D (-1427) (-)
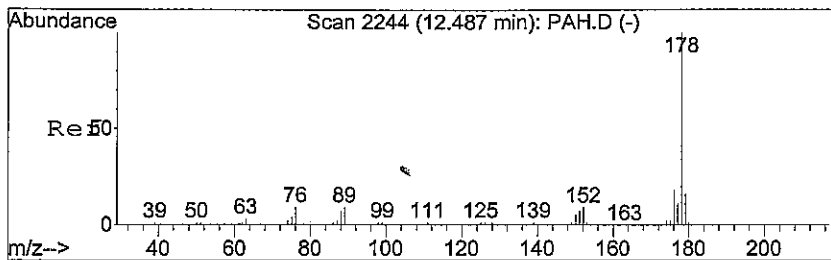
#34
Fluorene
Concen: 0.02 ug m
RT: 10.40 min   Scan# 1444
Delta R.T.   0.04 min
Lab File: 569692S.D
Acq: 28 Jun 2008   5:41 am

Tgt Ion:166 Resp: 7922
Ion   Ratio   Lower   Upper
166   100
165   58.6   73.4   110.2#
 82   18.8   13.8   20.8

Abundance Ion 166.00 (165.70 to 166.70): 569692
Ion 165.00 (164.70 to 165.70): 569692
Ion 82.40 (82.10 to 83.10): 569692S.D

Scan 2244 (12.487 min): PAH.D (-)

Scan 1592 (11.462 min): 569692S.D

Scan 1592 (11.462 min): 569692S.D (-1578) (-)

#35
Phenanthrene
Concen: 0.08 ug m
RT: 11.46 min   Scan# 1592
Delta R.T.   0.02 min
Lab File: 569692S.D
Acq: 28 Jun 2008   5:41 am

Tgt Ion:178 Resp: 33038
Ion   Ratio   Lower   Upper
178   100
152   8.7   7.0   10.6
179   14.1   12.9   19.3

Abundance Ion 178.05 (177.75 to 178.75): 569692
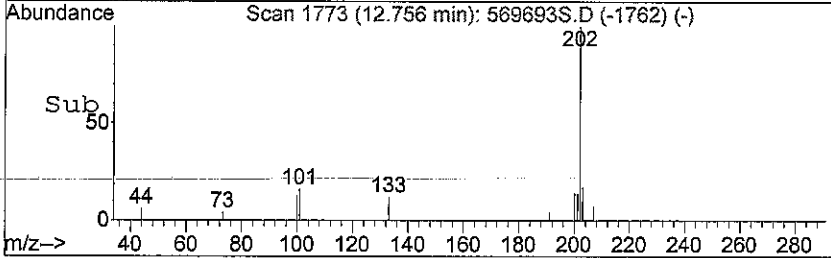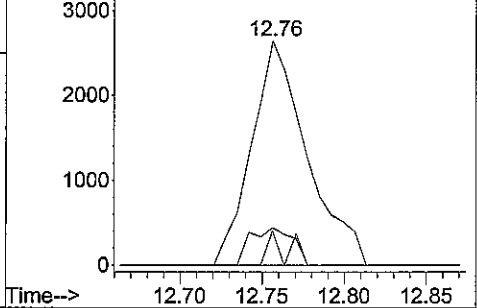Ion 152.00 (151.70 to 152.70): 569692
Ion 179.05 (178.75 to 179.75): 569692

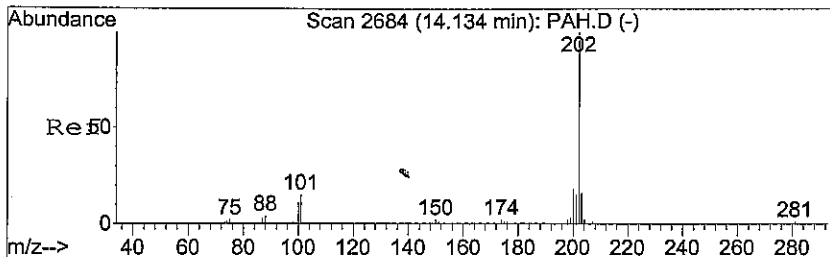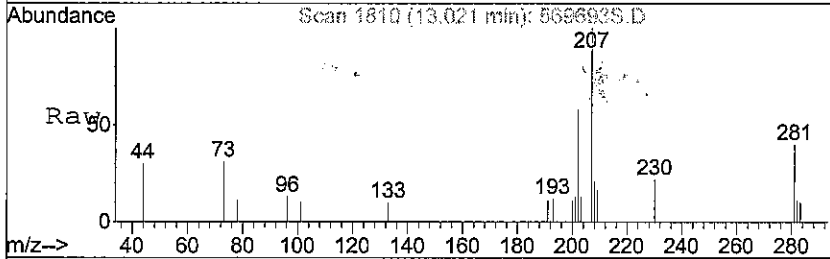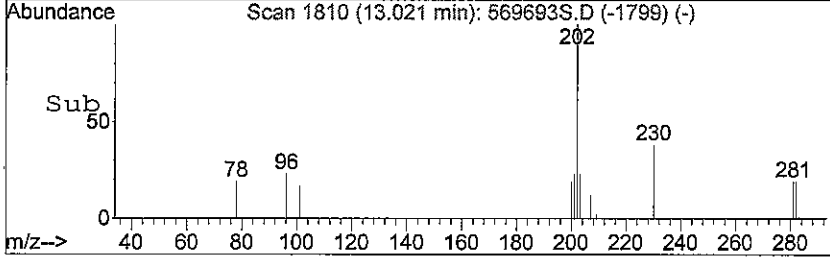569692S.D   A4-8.M   Wed Jul 02 10:42:58 2008   RPT1   Page 6

Scan 2260 (12.547 min): PAH.D (-)

Abundance / Re 50 / 178 / 39 51 63 76 89 99 110 126 139 152 163 / m/z--> 40 60 80 100 120 140 160 180 200

Scan 1602 (11.533 min): 569692S.D

Abundance / Raw 50 / 178 / 44 73 89 152 207 / m/z--> 40 60 80 100 120 140 160 180 200

Scan 1602 (11.533 min): 569692S.D (-1587) (-)

Abundance / Sub 50 / 178 / 44 76 89 152 / m/z--> 40 60 80 100 120 140 160 180 200

#36
Anthracene
Concen: 0.04 ug m
RT: 11.53 min   Scan# 1602
Delta R.T.   0.03 min
Lab File: 569692S.D
Acq: 28 Jun 2008   5:41 am

Tgt	Ion:178	Resp:	15067
Ion	Ratio	Lower	Upper
178	100		
152	8.1	6.2	9.4
179	2.9	12.1	18.1#

Abundance Ion 178.05 (177.75 to 178.75): 569692
Ion 152.00 (151.70 to 152.70): 569692
Ion 179.05 (178.75 to 179.75): 569692
15000 / 10000 / 5000 / 11.53 / 0
Time--> 11.45 11.50 11.55 11.60 11.65 11.70

Scan 2608 (13.850 min): PAH.D (-)

Abundance / Re 50 / 202 / 75 88 101 150 174 / m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Scan 1778 (12.792 min): 569692S.D

Abundance / Raw 50 / 202 / 44 73 101 281 / m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Scan 1778 (12.792 min): 569692S.D (-1762) (-)

Abundance / Sub 50 / 202 / 73 101 282 / m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

#37
Fluoranthene
Concen: 0.03 ug m
RT: 12.79 min   Scan# 1778
Delta R.T.   0.04 min
Lab File: 569692S.D
Acq: 28 Jun 2008   5:41 am

Tgt	Ion:202	Resp:	13874
Ion	Ratio	Lower	Upper
202	100		
101	11.4	10.0	15.0
203	12.9	13.8	20.6#

Abundance Ion 202.00 (201.70 to 202.70): 569692
Ion 101.05 (100.75 to 101.75): 569692
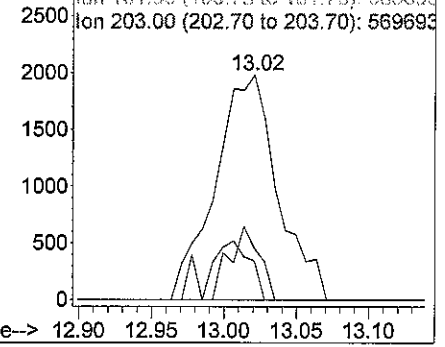6000 Ion 203.00 (202.70 to 203.70): 569692
12.79 / 4000 / 2000 / 0
Time--> 12.70 12.75 12.80 12.85 12.90

Ref 50

202

75 88   101   150   174   281

m/z-->   40   60   80   100   120   140   160   180   200   220   240   260   280

Abundance   Scan 1815 (13.056 min): 569692S.D

Raw 50

202

44   73   101   115   133   230   281

m/z-->   40   60   80   100   120   140   160   180   200   220   240   260   280

Abundance   Scan 1815 (13.056 min): 569692S.D (-1799) (-)

Sub 50

202

73   101   115   133   230   282

m/z-->   40   60   80   100   120   140   160   180   200   220   240   260   280

#38
Pyrene
Concen: 0.03 ug m
RT: 13.06 min   Scan# 1815
Delta R.T.   0.04 min
Lab File: 569692S.D
Acq: 28 Jun 2008   5:41 am

Tgt Ion:202 Resp: 11880

Ion	Ratio	Lower	Upper
202	100		
101	15.4	12.5	18.7
203	14.3	12.5	18.7

Abundance Ion 202.00 (201.70 to 202.70): 569692
6000 Ion 101.05 (100.75 to 101.75): 569692
Ion 203.00 (202.70 to 203.70): 569692

13.06

4000

2000

0

Time-->   12.95 13.00 13.05 13.10 13.15 13.20

```
                    Quantitation Report     (QT Reviewed)

Data File : C:\MSDCHEM\#8\74768EJF\569693S.D          Vial: 52
Acq On    : 28 Jun 2008    9:53 am             Operator: DC/DD
Sample    :                                    Inst    : Instrumen
Misc      :                                    Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:57 2008          Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8

   Internal Standards          R.T. QIon  Response  Conc Units Dev(Min)
   ------------------------------------------------------------------------


Target Compounds                                               Qvalue
    1) Methyl t-butyl ether     2.32   73    1108m    0.01 ug    #
    2) 1,1-Dichloroethene       2.10   61       0     N.D.
    3) trans-1,2-Dichloroethene 2.30   61       0     N.D.
    4) 1,1-Dichloroethane       2.37   63       0     N.D.
    5) cis-1,2-Dichloroethene   2.52   61       0     N.D.
    6) Chloroform               2.64   83       0     N.D.
    7) 1,1,1-Trichloroethane    2.79   97       0     N.D.
    8) 1,2-Dichloroethane       2.87   62       0     N.D.
    9) Benzene                  2.92   78    5076m    0.02 ug
   10) Carbon tetrachloride     2.92  117       0     N.D.
   11) Trichloroethene          3.28   95       0     N.D.
   12) 1,1,2- Trichloroethane   4.13   97       0     N.D.
   13) Toluene                  3.98   91       0     N.D.
   14) Octane                   4.29   43       0     N.D.
   15) Tetrachloroethene        4.40  166       0     N.D.
   16) Chlorobenzene            4.86  112       0     N.D.
   17) 1,1,1,2- Tetrachloroethane 4.93 131      0     N.D.
   18) Ethylbenzene             4.99   91       0     N.D.
   19) m,p-Xylene               5.08   91       0     N.D.
   20) o-Xylene                 5.32   91       0     N.D.
   21) 1,1,2,2-Tetrachloroethane 5.60  83       0     N.D.
   22) 1,3,5-Trimethylbenzene   6.03  105       0     N.D.
   23) 1,2,4-Trimethylbenzene   6.26  105       0     N.D.
   24) 1,3-Dichlorobenzene      6.39  146       0     N.D.
   25) 1,4-Dichlorobenzene      6.47  146       0     N.D.
   26) 1,2-Dichlorobenzene      6.63  146       0     N.D.
   27) Undecane                 7.03   57       0     N.D.
   28) Naphthalene              7.90  128   16378m    0.04 ug    #
   29) Tridecane                8.42   57       0     N.D.
   30) 2-Methyl naphthalene     8.68  142    2518m    0.01 ug    #
   31) Acenaphthylene           9.60  152       0     N.D.
   32) Pentadecane              9.62   57       0     N.D.
   33) Acenaphthene             9.82  153    6788m    0.02 ug    #
   34) Fluorene                10.40  166    3366m    0.01 ug    #
   35) Phenanthrene            11.46  178   11234m    0.03 ug    #
   36) Anthracene               0.00  178       0     N.D. d
   37) Fluoranthene            12.76  202    6210m    0.01 ug    #
   38) Pyrene                  13.02  202    5931m    0.01 ug    #




   ------------------------------------------------------------------------
   (#) = qualifier out of range (m) = manual integration (+) = signals summed
   569693S.D   A4-8.M      Wed Jul 02 10:37:03 2008      RPT1        Page 1
```
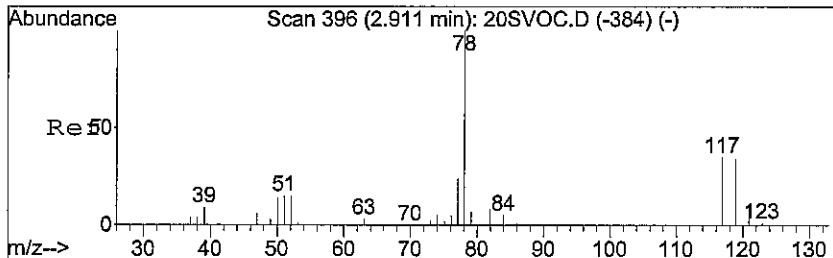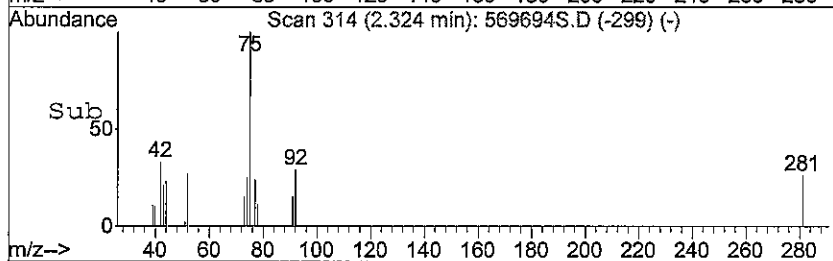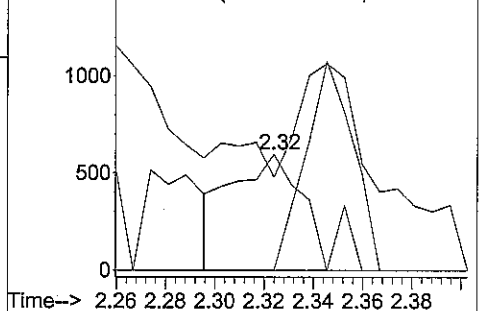
Data File : C:\MSDCHEM\#8\74768EJF\569693S.D   Vial: 52
Acq On   : 28 Jun 2008   9:53 am   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 15:08 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update   : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

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Abundance — Scan 306 (2.267 min): 20SVOC.D (-301) (-)
Re 50

73
43 57
96

m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Abundance — Scan 314 (2.324 min): 569693S.D
Raw 50

44
78
94
207
281

m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Abundance — Scan 314 (2.324 min): 569693S.D (-299) (-)
Sub 50

75
42
281

m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

#1
Methyl t-butyl ether
Concen: 0.01 ug m
RT: 2.32 min   Scan# 314
Delta R.T.   0.03 min
Lab File: 569693S.D
Acq: 28 Jun 2008   9:53 am

Tgt Ion: 73 Resp: 1108
Ion   Ratio   Lower   Upper
 73   100
 57   0.0   17.9   26.9#
 41   36.7   16.6   24.8#

Abundance Ion 73.00 (72.70 to 73.70): 569693S.D
1000 Ion 57.00 (56.70 to 57.70): 569693S.D
      Ion 41.05 (40.75 to 41.75): 569693S.D
800
600   2.32
400
200
0
Time--> 2.28 2.30 2.32 2.34

Abundance — Scan 396 (2.911 min): 20SVOC.D (-384) (-)
Re 50

78
39 51
63 70   84
117
123

m/z--> 30 40 50 60 70 80 90 100 110 120 130

Abundance — Scan 398 (2.925 min): 569693S.D
Raw 50

78
44
52

m/z--> 30 40 50 60 70 80 90 100 110 120 130

Abundance — Scan 398 (2.925 min): 569693S.D (-387) (-)
Sub 50

78
52

m/z--> 30 40 50 60 70 80 90 100 110 120 130

#9
Benzene
Concen: 0.02 ug m
RT: 2.92 min   Scan# 398
Delta R.T.   0.00 min
Lab File: 569693S.D
Acq: 28 Jun 2008   9:53 am

Tgt Ion: 78 Resp: 5076
Ion   Ratio   Lower   Upper
 78   100
 51   3.1   13.8   20.6#
 52   5.3   13.7   20.5#

Abundance Ion 77.95 (77.65 to 78.65): 569693S.D
      Ion 50.95 (50.65 to 51.65): 569693S.D
2000 Ion 52.05 (51.75 to 52.75): 569693S.D
      2.92
1500
1000
500
0
Time--> 2.85 2.90 2.95 3.00 3.05

#28
Naphthalene
Concen: 0.04 ug m
RT: 7.90 min   Scan# 1094
Delta R.T.   0.06 min
Lab File: 569693S.D
Acq: 28 Jun 2008   9:53 am

Tgt Ion:128 Resp: 16378

Ion	Ratio	Lower	Upper
128	100		
102	0.0	10.1	15.1#
127	0.0	14.2	21.4#

#30
2-Methyl naphthalene
Concen: 0.01 ug m
RT: 8.68 min   Scan# 1203
Delta R.T.   0.08 min
Lab File: 569693S.D
Acq: 28 Jun 2008   9:53 am

Tgt Ion:142 Resp: 2518

Ion	Ratio	Lower	Upper
142	100		
141	0.0	69.2	103.8#
115	0.0	29.8	44.8#

#33
Acenaphthene
Concen: 0.02 ug m
RT: 9.82 min   Scan# 1362
Delta R.T.   0.03 min
Lab File: 569693S.D
Acq: 28 Jun 2008   9:53 am

Tgt Ion:153 Resp: 6788

Ion	Ratio	Lower	Upper
153	100		
154	91.7	78.6	118.0
152	50.8	42.4	63.6

#34
Fluorene
Concen: 0.01 ug m
RT: 10.40 min   Scan# 1443
Delta R.T.   0.04 min
Lab File: 569693S.D
Acq: 28 Jun 2008   9:53 am

Tgt Ion:166 Resp: 3366

Ion	Ratio	Lower	Upper
166	100		
165	66.8	73.4	110.2#
82	0.0	13.8	20.8#

Scan 2244 (12.487 min): PAH.D (-)

Abundance — Re 50

178

39 50 63 76 89 99 111 125 139 152 163

m/z--> 40 60 80 100 120 140 160 180 200

Scan 1592 (11.462 min): 569693S.D

Abundance — Raw 50

178

44 76 89 152 207

m/z--> 40 60 80 100 120 140 160 180 200

Scan 1592 (11.462 min): 569693S.D (-1578) (-)

Abundance — Sub 50

178

44 76 89 152 207

m/z--> 40 60 80 100 120 140 160 180 200

```
#35
Phenanthrene
Concen:     0.03 ug m
RT: 11.46 min   Scan# 1592
Delta R.T.    0.02 min
Lab File:    569693S.D
Acq: 28 Jun 2008    9:53 am

Tgt Ion:178 Resp:      11234
Ion   Ratio   Lower    Upper
178   100
152     7.9     7.0     10.6
179    13.9    12.9     19.3
```

Abundance Ion 178.05 (177.75 to 178.75): 569693
Ion 152.05 (151.70 to 152.70): 569693
Ion 179.05 (178.75 to 179.75): 569693

11.46

6000
4000
2000
0

Time--> 11.40 11.45 11.50

Scan 2608 (13.850 min): PAH.D (-)

Abundance — Re 50

202

75 88 101 150 174

m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Scan 1773 (12.756 min): 569693S.D

Abundance — Raw 50

202

44 73 101 133 147 281

m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Scan 1773 (12.756 min): 569693S.D (-1762) (-)

Abundance — Sub 50

202

44 73 101 133

m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

```
#37
Fluoranthene
Concen:     0.01 ug m
RT: 12.76 min   Scan# 1773
Delta R.T.   -0.00 min
Lab File:    569693S.D
Acq: 28 Jun 2008    9:53 am

Tgt Ion:202 Resp:       6210
Ion   Ratio   Lower    Upper
202   100
101     5.4    10.0     15.0#
203    12.8    13.8     20.6#
```

Abundance Ion 202.00 (201.70 to 202.70): 569693
Ion 101.05 (100.75 to 101.75): 569693
Ion 203.00 (202.70 to 203.70): 569693

12.76

3000
2000
1000
0

Time--> 12.70 12.75 12.80 12.85

Scan 2684 (14.134 min): PAH.D (-)

Scan 1810 (13.021 min): 569693S.D

Scan 1810 (13.021 min): 569693S.D (-1799) (-)

#38
Pyrene
Concen: 0.01 ug m
RT: 13.02 min   Scan# 1810
Delta R.T.   0.00 min
Lab File: 569693S.D
Acq: 28 Jun 2008   9:53 am

Tgt Ion:202	Resp:		5931
Ion	Ratio	Lower	Upper
202	100		
101	17.6	12.5	18.7
203	15.7	12.5	18.7

Ion 202.00 (201.70 to 202.70): 569693
Ion 101.05 (100.75 to 101.75): 569693
Ion 203.00 (202.70 to 203.70): 569693

13.02

```
                    Quantitation Report      (QT Reviewed)

Data File : C:\MSDCHEM\#8\74768EJF\569694S.D          Vial: 30
Acq On    : 27 Jun 2008  11:38 pm                     Operator: DC/DD
Sample    :                                           Inst    : Instrumen
Misc      :                                           Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:58 2008           Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8

   Internal Standards           R.T. QIon  Response  Conc Units Dev(Min)
   ----------------------------------------------------------------------


Target Compounds                                                Qvalue
    1) Methyl t-butyl ether      2.32   73    1322m    0.01 ug    #
    2) 1,1-Dichloroethene        2.10   61       0     N.D.
    3) trans-1,2-Dichloroethene  2.30   61       0     N.D.
    4) 1,1-Dichloroethane        2.37   63       0     N.D.
    5) cis-1,2-Dichloroethene    2.52   61       0     N.D.
    6) Chloroform                2.64   83       0     N.D.
    7) 1,1,1-Trichloroethane     2.79   97       0     N.D.
    8) 1,2-Dichloroethane        2.87   62       0     N.D.
    9) Benzene                   2.93   78    8210m    0.03 ug    #
   10) Carbon tetrachloride      2.92  117       0     N.D.
   11) Trichloroethene           3.28   95       0     N.D.
   12) 1,1,2- Trichloroethane    4.13   97       0     N.D.
   13) Toluene                   4.01   91   16647m    0.06 ug    #
   14) Octane                    4.29   43       0     N.D.
   15) Tetrachloroethene         4.40  166       0     N.D.
   16) Chlorobenzene             4.86  112       0     N.D.
   17) 1,1,1,2- Tetrachloroethane 4.93 131       0     N.D.
   18) Ethylbenzene              5.02   91    5886m    0.02 ug    #
   19) m,p-Xylene                5.12   91    4825m    0.02 ug    #
   20) o-Xylene                  5.34   91   11160m    0.04 ug    #
   21) 1,1,2,2-Tetrachloroethane 5.60   83       0     N.D.
   22) 1,3,5-Trimethylbenzene    5.98  105    7351m    0.03 ug    #
   23) 1,2,4-Trimethylbenzene    6.29  105    3612m    0.01 ug    #
   24) 1,3-Dichlorobenzene       6.39  146       0     N.D.
   25) 1,4-Dichlorobenzene       6.47  146       0     N.D.
   26) 1,2-Dichlorobenzene       6.63  146       0     N.D.
   27) Undecane                  7.03   57       0     N.D.
   28) Naphthalene               7.86  128  267597m    0.58 ug    #
   29) Tridecane                 8.42   57       0     N.D.
   30) 2-Methyl naphthalene      8.62  142   94143m    0.27 ug    #
   31) Acenaphthylene            9.60  152    7579m    0.01 ug    #
   32) Pentadecane               9.62   57       0     N.D.
   33) Acenaphthene              9.79  153  332738m    0.94 ug    #
   34) Fluorene                 10.36  166  151964m    0.36 ug    #
   35) Phenanthrene             11.43  178  446544m    1.05 ug    #
   36) Anthracene               11.49  178  111310m    0.26 ug    #
   37) Fluoranthene             12.75  202  148943m    0.35 ug    #
   38) Pyrene                   13.01  202   89291m    0.21 ug    #
```

Data File : C:\MSDCHEM\#8\74768EJF\569694S.D   Vial: 30
Acq On   : 27 Jun 2008 11:38 pm   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

Scan 306 (2.267 min): 20SVOC.D (-301) (-)

Scan 314 (2.324 min): 569694S.D

Scan 314 (2.324 min): 569694S.D (-299) (-)

#1
Methyl t-butyl ether
Concen: 0.01 ug m
RT: 2.32 min   Scan# 314
Delta R.T.   0.03 min
Lab File: 569694S.D
Acq: 27 Jun 2008 11:38 pm

Tgt Ion: 73 Resp: 1322

Ion	Ratio	Lower	Upper
73	100		
57	0.0	17.9	26.9#
41	16.8	16.6	24.8

Abundance Ion 73.00 (72.70 to 73.70): 569694S.D
Ion 57.00 (56.70 to 57.70): 569694S.D
Ion 41.05 (40.75 to 41.75): 569694S.D

Scan 396 (2.911 min): 20SVOC.D (-384) (-)

Scan 399 (2.932 min): 569694S.D

Scan 399 (2.932 min): 569694S.D (-387) (-)

#9
Benzene
Concen: 0.03 ug m
RT: 2.93 min   Scan# 399
Delta R.T.   0.01 min
Lab File: 569694S.D
Acq: 27 Jun 2008 11:38 pm

Tgt Ion: 78 Resp: 8210

Ion	Ratio	Lower	Upper
78	100		
51	13.6	13.8	20.6#
52	6.8	13.7	20.5#

Abundance Ion 77.95 (77.65 to 78.65): 569694S.D
Ion 50.95 (50.65 to 51.65): 569694S.D
Ion 52.05 (51.75 to 52.75): 569694S.D

569694S.D   A4-8.M   Wed Jul 02 10:43:00 2008   RPT1   Page 3

Top block (#13 Toluene):

```
Abundance        Scan 546 (3.983 min): 20SVOC.D (-538) (-)
                                                    91
  Re 50
      0     39   45  51        61   65      75      85
  m/z-->   30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

Abundance        Scan 550 (4.011 min): 569694S.D
                                                    91
  Raw 50
      0     39 44   51              65        78
  m/z-->   30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

Abundance        Scan 550 (4.011 min): 569694S.D (-535) (-)
                                                    91
  Sub 50
      0     39    51          65      77
  m/z-->   30 35 40 45 50 55 60 65 70 75 80 85 90 95 100
```

#13
Toluene
Concen: 0.06 ug m
RT: 4.01 min   Scan# 550
Delta R.T.   0.03 min
Lab File: 569694S.D
Acq: 27 Jun 2008   11:38 pm

Tgt Ion: 91 Resp: 16647
Ion Ratio   Lower   Upper
 91 100
 65   11.6   11.2   16.8
 92   57.2   52.9   79.3

Abundance Ion 90.95 (90.65 to 91.65): 569694S.
          Ion 65.05 (64.75 to 65.75): 569694S.
          Ion 92.05 (91.75 to 92.75): 569694S.
  10000
                    4.01
   5000
      0
  Time--> 3.95   4.00   4.05   4.10

Bottom block (#18 Ethylbenzene):

```
Abundance        Scan 688 (4.999 min): 20SVOC.D (-677) (-)
                                              91
  Re 50                                              106
      0     39 44   51      65   77    85    101
  m/z-->   30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115

Abundance        Scan 691 (5.020 min): 569694S.D
                                              91
  Raw 50
                                                     106
      0     44  51          78
  m/z-->   30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115

Abundance        Scan 691 (5.020 min): 569694S.D (-676) (-)
                                              91
  Sub 50
             51          77                          106
      0
  m/z-->   30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115
```

#18
Ethylbenzene
Concen: 0.02 ug m
RT: 5.02 min   Scan# 691
Delta R.T.   0.03 min
Lab File: 569694S.D
Acq: 27 Jun 2008   11:38 pm

Tgt Ion: 91 Resp: 5886
Ion Ratio   Lower   Upper
 91 100
106   30.0   30.8   46.2#
 51   8.6   9.4   14.0#

Abundance Ion 90.95 (90.65 to 91.65): 569694S.
   5000 Ion 106.05 (105.75 to 106.75): 569694
          Ion 51.05 (50.75 to 51.75): 569694S.
   4000
                  5.02
   3000
   2000
   1000
      0
  Time--> 4.95 5.00   5.05   5.10

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Scan 701 (5.092 min): 20SVOC.D (-695) (-)

Abundance / Ref 50 / 91 / 106 / 39 44 51 60 65 77 86 97 / m/z-->

Scan 705 (5.120 min): 569694S.D

Abundance / Raw 50 / 91 / 44 51 77 106 / m/z-->

Scan 705 (5.120 min): 569694S.D (-689) (-)

Abundance / Sub 50 / 91 / 40 51 77 106 / m/z-->

#19
m,p-Xylene
Concen: 0.02 ug m
RT: 5.12 min   Scan# 705
Delta R.T.   0.04 min
Lab File: 569694S.D
Acq: 27 Jun 2008 11:38 pm

Tgt Ion: 91 Resp: 4825

Ion	Ratio	Lower	Upper
91	100		
106	37.8	45.1	67.7#
105	19.9	20.6	31.0#

Abundance Ion 90.95 (90.65 to 91.65): 569694S.
Ion 106.05 (105.75 to 106.75): 569694
Ion 105.05 (104.75 to 105.75): 569694
5.12
Time--> 5.05 5.10 5.15 5.20

Scan 733 (5.321 min): 20SVOC.D (-723) (-)

Abundance / Ref 50 / 91 / 106 / 39 44 51 60 65 77 84 97 / m/z-->

Scan 736 (5.341 min): 569694S.D

Abundance / Raw 50 / 91 / 39 44 51 63 77 106 / m/z-->

Scan 736 (5.341 min): 569694S.D (-722) (-)

Abundance / Sub 50 / 91 / 39 44 51 63 77 106 / m/z-->

#20
o-Xylene
Concen: 0.04 ug m
RT: 5.34 min   Scan# 736
Delta R.T.   0.02 min
Lab File: 569694S.D
Acq: 27 Jun 2008 11:38 pm

Tgt Ion: 91 Resp: 11160

Ion	Ratio	Lower	Upper
91	100		
106	42.9	43.1	64.7#
105	18.4	18.2	27.2

Abundance Ion 90.95 (90.65 to 91.65): 569694S.
Ion 106.05 (105.75 to 106.75): 569694
Ion 105.05 (104.75 to 105.75): 569694
5.34
Time--> 5.30 5.35 5.40

569694S.D   A4-8.M   Wed Jul 02 10:43:00 2008   RPT1   Page 5
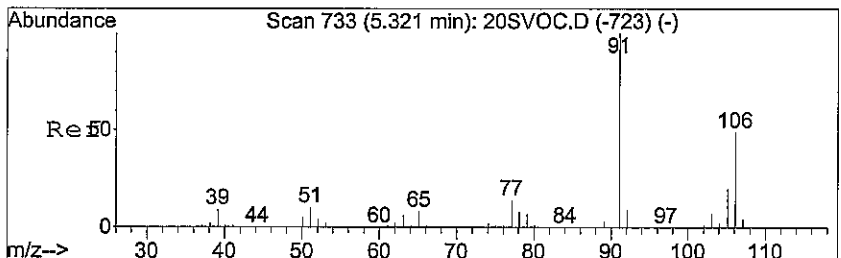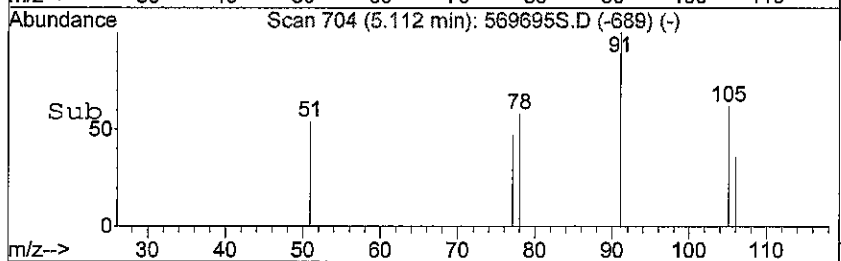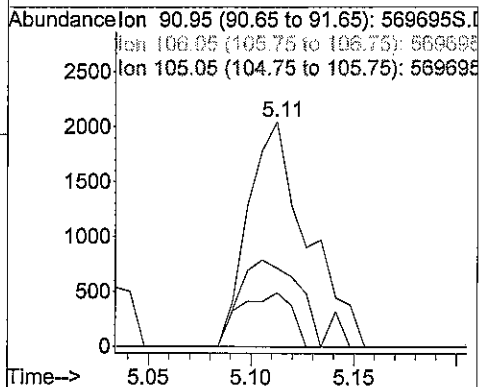
#22
1,3,5-Trimethylbenzene
Concen: 0.03 ug m
RT: 5.98 min   Scan# 825
Delta R.T.   -0.05 min
Lab File: 569694S.D
Acq: 27 Jun 2008 11:38 pm

Tgt	Ion:105	Resp:	7351
Ion	Ratio	Lower	Upper
105	100		
120	10.5	45.1	67.7#
77	0.0	12.2	18.4#

#23
1,2,4-Trimethylbenzene
Concen: 0.01 ug m
RT: 6.29 min   Scan# 868
Delta R.T.   0.03 min
Lab File: 569694S.D
Acq: 27 Jun 2008 11:38 pm

Tgt	Ion:105	Resp:	3612
Ion	Ratio	Lower	Upper
105	100		
120	42.0	42.9	64.3#
77	17.7	11.9	17.9

#28
Naphthalene
Concen: 0.58 ug m
RT: 7.86 min   Scan# 1088
Delta R.T.   0.01 min
Lab File: 569694S.D
Acq: 27 Jun 2008   11:38 pm

Tgt Ion:128 Resp: 267597

Ion	Ratio	Lower	Upper
128	100		
102	8.1	10.1	15.1#
127	11.9	14.2	21.4#

#30
2-Methyl naphthalene
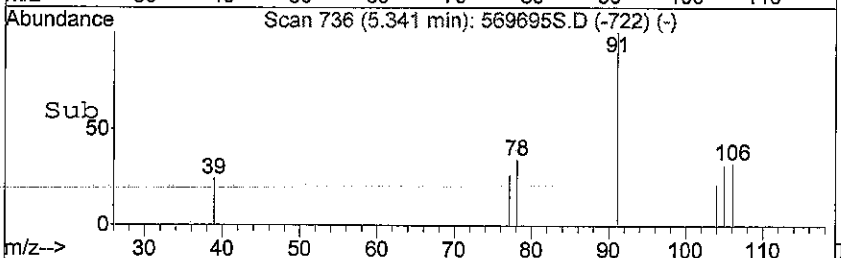Concen: 0.27 ug m
RT: 8.62 min   Scan# 1194
Delta R.T.   0.01 min
Lab File: 569694S.D
Acq: 27 Jun 2008   11:38 pm

Tgt Ion:142 Resp: 94143

Ion	Ratio	Lower	Upper
142	100		
141	81.3	69.2	103.8
115	29.2	29.8	44.8#

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#31
Acenaphthylene
Concen: 0.01 ug m
RT: 9.60 min   Scan# 1332
Delta R.T.   0.00 min
Lab File: 569694S.D
Acq: 27 Jun 2008 11:38 pm

Tgt Ion:152 Resp: 7579
Ion Ratio Lower   Upper
152 100
 76   15.1   12.6   18.8
151   23.2   21.7   32.5

#33
Acenaphthene
Concen: 0.94 ug m
RT: 9.79 min   Scan# 1358
Delta R.T.   0.00 min
Lab File: 569694S.D
Acq: 27 Jun 2008 11:38 pm

Tgt Ion:153 Resp: 332738
Ion Ratio Lower   Upper
153 100
154   94.1   78.6   118.0
152   46.1   42.4   63.6

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#34
Fluorene
Concen: 0.36 ug m
RT: 10.36 min   Scan# 1438
Delta R.T.   0.00 min
Lab File: 569694S.D
Acq: 27 Jun 2008   11:38 pm

Tgt Ion:166 Resp: 151964

Ion	Ratio	Lower	Upper
166	100		
165	88.4	73.4	110.2
82	22.9	13.8	20.8#

#35
Phenanthrene
Concen: 1.05 ug m
RT: 11.43 min   Scan# 1588
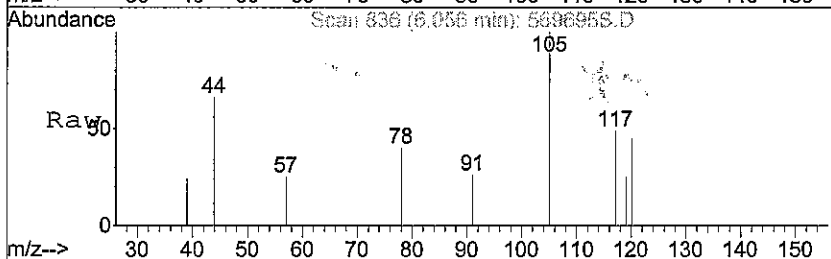Delta R.T.   -0.01 min
Lab File: 569694S.D
Acq: 27 Jun 2008   11:38 pm

Tgt Ion:178 Resp: 446544

Ion	Ratio	Lower	Upper
178	100		
152	10.4	7.0	10.6
179	15.7	12.9	19.3

#36
Anthracene
Concen: 0.26 ug m
RT: 11.49 min   Scan# 1596
Delta R.T.   -0.01 min
Lab File: 569694S.D
Acq: 27 Jun 2008 11:38 pm

Tgt Ion:178 Resp: 111310
Ion Ratio Lower Upper
178 100
152   6.4   6.2   9.4
179   12.4   12.1   18.1

#37
Fluoranthene
Concen: 0.35 ug m
RT: 12.75 min   Scan# 1772
Delta R.T.   -0.01 min
Lab File: 569694S.D
Acq: 27 Jun 2008 11:38 pm

Tgt Ion:202 Resp: 148943
Ion Ratio Lower Upper
202 100
101   13.2   10.0   15.0
203   15.4   13.8   20.6

Scan 2684 (14.134 min): PAH.D (-)

Abundance — Ref 50
202
73 87 101 150 174 281
m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Abundance — Scan 1808 (13.006 min): 569694S.D

Raw 50
202
44 73 88 101 135 150 174 218 281
m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

Abundance — Scan 1808 (13.006 min): 569694S.D (-1799) (-)

Sub 50
202
40 74 88 101 135 150 174 230 281
m/z--> 40 60 80 100 120 140 160 180 200 220 240 260 280

#38
Pyrene
Concen: 0.21 ug m
RT: 13.01 min   Scan# 1808
Delta R.T.   -0.01 min
Lab File: 569694S.D
Acq: 27 Jun 2008 11:38 pm

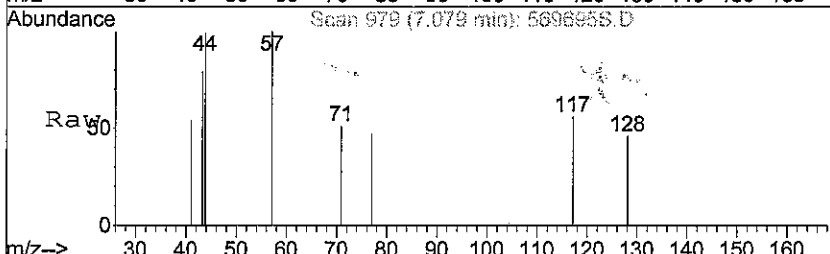Tgt Ion:202 Resp: 89291

Ion	Ratio	Lower	Upper
202	100		
101	16.6	12.5	18.7
203	22.3	12.5	18.7#

Abundance Ion 202.00 (201.70 to 202.70): 569694
Ion 101.05 (100.75 to 101.75): 569694
Ion 203.00 (202.70 to 203.70): 569694

50000
40000   13.01
30000
20000
10000
0
Time--> 12.90   13.00   13.10   13.20

```
Data File : C:\MSDCHEM\#8\74768EJF\569695S.D          Vial: 55
Acq On    : 28 Jun 2008  11:22 am                     Operator: DC/DD
Sample    :                                           Inst     : Instrumen
Misc      :                                            Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:58 2008          Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8
```

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds						Qvalue
1) Methyl t-butyl ether	2.30	73	0	N.D.		
2) 1,1-Dichloroethene	2.10	61	0	N.D.		
3) trans-1,2-Dichloroethene	2.30	61	0	N.D.		
4) 1,1-Dichloroethane	2.37	63	0	N.D.		
5) cis-1,2-Dichloroethene	2.53	61	600m	0.01	ug	#
6) Chloroform	2.64	83	0	N.D.		
7) 1,1,1-Trichloroethane	2.79	97	0	N.D.		
8) 1,2-Dichloroethane	2.87	62	0	N.D.		
9) Benzene	2.92	78	0	N.D.		
10) Carbon tetrachloride	2.92	117	0	N.D.		
11) Trichloroethene	3.28	95	0	N.D.		
12) 1,1,2- Trichloroethane	4.13	97	0	N.D.		
13) Toluene	4.00	91	11774m	0.04	ug	#
14) Octane	4.29	43	0	N.D.		
15) Tetrachloroethene	4.41	166	3185m	0.04	ug	#
16) Chlorobenzene	4.86	112	0	N.D.		
17) 1,1,1,2- Tetrachloroethane	4.93	131	0	N.D.		
18) Ethylbenzene	5.01	91	2921m	0.01	ug	#
19) m,p-Xylene	5.11	91	4079m	0.02	ug	#
20) o-Xylene	5.34	91	2481m	0.01	ug	#
21) 1,1,2,2-Tetrachloroethane	5.60	83	0	N.D.		
22) 1,3,5-Trimethylbenzene	6.06	105	2786m	0.01	ug	#
23) 1,2,4-Trimethylbenzene	6.29	105	3428m	0.01	ug	#
24) 1,3-Dichlorobenzene	6.39	146	0	N.D.		
25) 1,4-Dichlorobenzene	6.47	146	0	N.D.		
26) 1,2-Dichlorobenzene	6.63	146	0	N.D.		
27) Undecane	7.08	57	2072m	0.01	ug	#
28) Naphthalene	7.87	128	95568m	0.21	ug	#
29) Tridecane	8.44	57	1571m	0.01	ug	#
30) 2-Methyl naphthalene	8.63	142	16677m	0.05	ug	#
31) Acenaphthylene	9.61	152	4898m	0.01	ug	#
32) Pentadecane	9.57	57	2863m	0.01	ug	#
33) Acenaphthene	9.80	153	45952m	0.13	ug	#
34) Fluorene	10.37	166	28041m	0.07	ug	#
35) Phenanthrene	11.44	178	128842m	0.30	ug	#
36) Anthracene	11.50	178	84906m	0.20	ug	#
37) Fluoranthene	12.75	202	44522m	0.10	ug	#
38) Pyrene	13.01	202	29408m	0.07	ug	#

Data File : C:\MSDCHEM\#8\74768EJF\569695S.D   Vial: 55
Acq On   : 28 Jun 2008 11:22 am   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

Scan 339 (2.503 min): 20SVOC.D (-327) (-)

Scan 343 (2.531 min): 569695S.D

Scan 343 (2.531 min): 569695S.D (-331) (-)

#5
cis-1,2-Dichloroethene
Concen: 0.01 ug m
RT: 2.53 min   Scan# 343
Delta R.T.   0.01 min
Lab File: 569695S.D
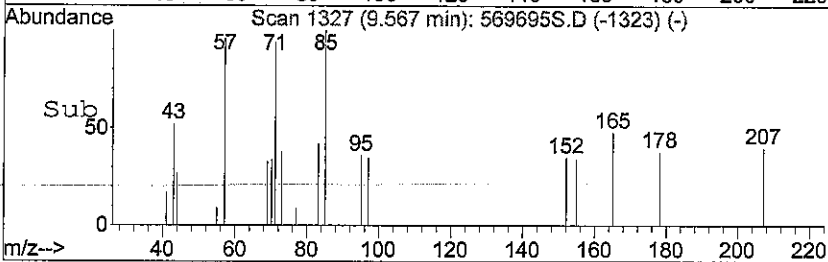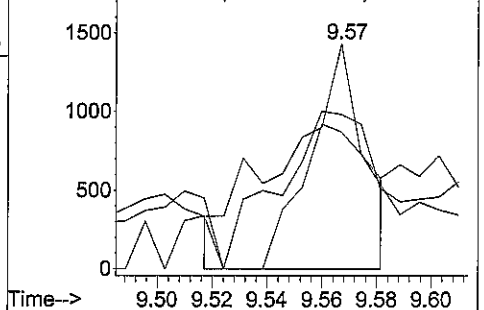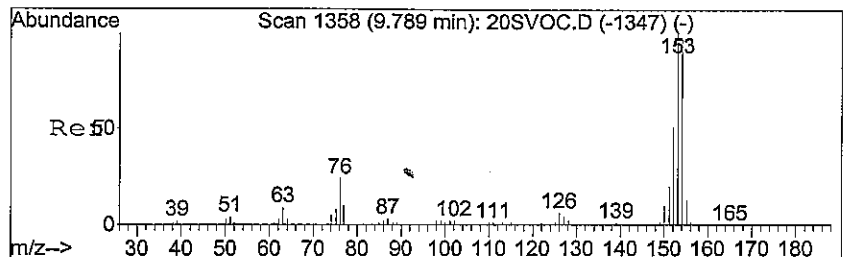Acq: 28 Jun 2008   11:22 am

Tgt Ion: 61	Resp:		600
Ion	Ratio	Lower	Upper
61	100		
96	87.8	59.8	89.8
98	21.7	38.3	57.5#

Abundance Ion 61.00 (60.70 to 61.70): 569695S.
Ion 95.90 (95.60 to 96.60): 569695S.
Ion 97.90 (97.60 to 98.60): 569695S.

Scan 546 (3.983 min): 20SVOC.D (-538) (-)

Scan 549 (4.004 min): 569695S.D
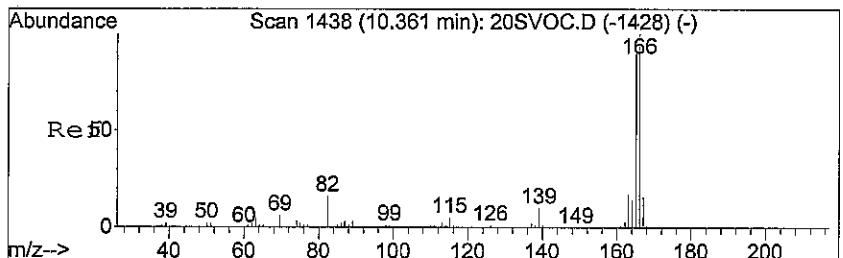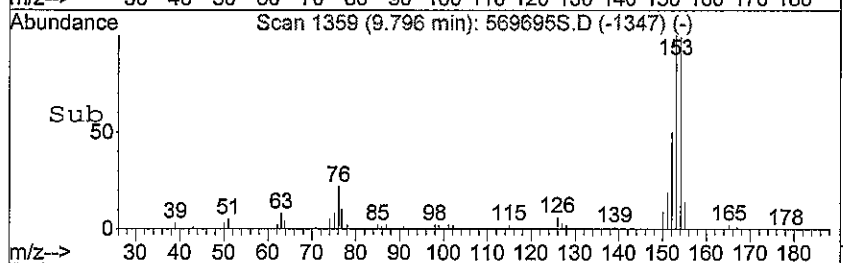
Scan 549 (4.004 min): 569695S.D (-535) (-)

#13
Toluene
Concen: 0.04 ug m
RT: 4.00 min   Scan# 549
Delta R.T.   0.02 min
Lab File: 569695S.D
Acq: 28 Jun 2008   11:22 am

Tgt Ion: 91	Resp:		11774
Ion	Ratio	Lower	Upper
91	100		
65	10.7	11.2	16.8#
92	57.4	52.9	79.3

Abundance Ion 90.95 (90.65 to 91.65): 569695S.
Ion 65.05 (64.75 to 65.75): 569695S.
Ion 92.05 (91.75 to 92.75): 569695S.

Scan 605 (4.405 min): 20SVOC.D (-598) (-)

Scan 606 (4.412 min): 569695S.D

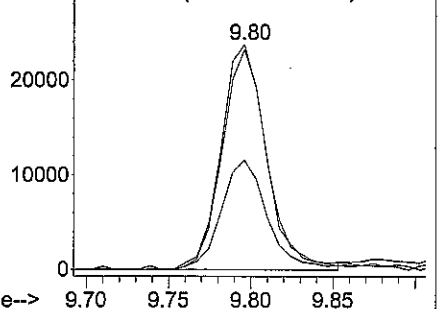Scan 606 (4.412 min): 569695S.D (-594) (-)

#15
Tetrachloroethene
Concen: 0.04 ug m
RT: 4.41 min   Scan# 606
Delta R.T.   0.01 min
Lab File: 569695S.D
Acq: 28 Jun 2008 11:22 am

Tgt Ion:166	Resp:		3185
Ion	Ratio	Lower	Upper
166	100		
129	64.2	55.0	82.6
94	43.6	29.9	44.9

Abundance Ion 165.80 (165.50 to 166.50): 569695
Ion 128.75 (128.45 to 129.45): 569695
Ion 93.85 (93.55 to 94.55): 569695.

Scan 688 (4.999 min): 20SVOC.D (-677) (-)

Scan 690 (5.012 min): 569695S.D

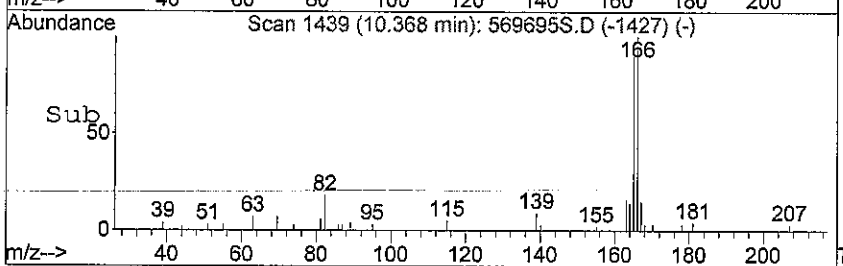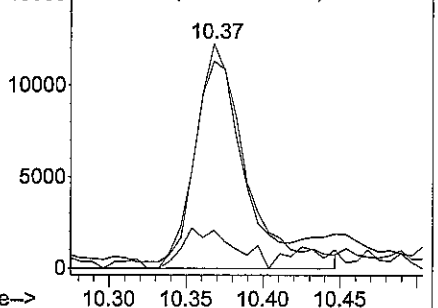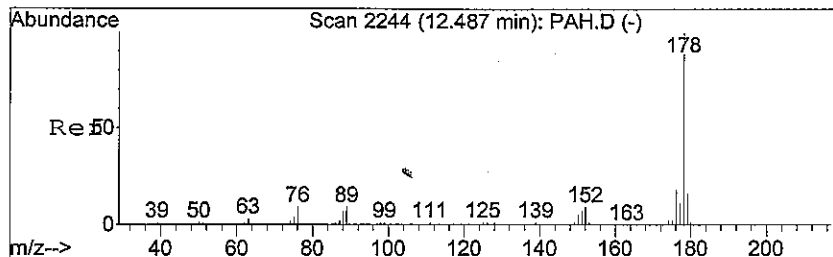Scan 690 (5.012 min): 569695S.D (-676) (-)

#18
Ethylbenzene
Concen: 0.01 ug m
RT: 5.01 min   Scan# 690
Delta R.T.   0.02 min
Lab File: 569695S.D
Acq: 28 Jun 2008 11:22 am

Tgt Ion: 91	Resp:		2921
Ion	Ratio	Lower	Upper
91	100		
106	19.5	30.8	46.2#
51	4.7	9.4	14.0#

Abundance Ion 90.95 (90.65 to 91.65): 569695.
Ion 106.05 (105.75 to 106.75): 569695
Ion 51.05 (50.75 to 51.75): 569695.

Scan 701 (5.092 min): 20SVOC.D (-695) (-)
Abundance / Ref
91, 106, 39, 44, 51, 60, 65, 77, 86, 97

Scan 704 (5.112 min): 569695S.D
Abundance / Raw
91, 44, 51, 78, 106

Scan 704 (5.112 min): 569695S.D (-689) (-)
Abundance / Sub
91, 51, 78, 105

#19
m,p-Xylene
Concen: 0.02 ug m
RT: 5.11 min   Scan# 704
Delta R.T.   0.03 min
Lab File: 569695S.D
Acq: 28 Jun 2008 11:22 am

Tgt Ion: 91	Resp:		4079
Ion	Ratio	Lower	Upper
91	100		
106	38.5	45.1	67.7#
105	21.2	20.6	31.0

Abundance Ion 90.95 (90.65 to 91.65): 569695S.[
Ion 106.05 (105.75 to 106.75): 569695
Ion 105.05 (104.75 to 105.75): 569695
5.11

#20
o-Xylene
Concen: 0.01 ug m
RT: 5.34 min   Scan# 736
Delta R.T.   0.02 min
Lab File: 569695S.D
Acq: 28 Jun 2008 11:22 am

Tgt Ion: 91	Resp:		2481
Ion	Ratio	Lower	Upper
91	100		
106	26.2	43.1	64.7#
105	16.9	18.2	27.2#

Abundance Ion 90.95 (90.65 to 91.65): 569695S.[
Ion 106.05 (105.75 to 106.75): 569695
Ion 105.05 (104.75 to 105.75): 569695
5.34

Scan 733 (5.321 min): 20SVOC.D (-723) (-)
Abundance / Ref
91, 106, 39, 44, 51, 60, 65, 77, 84, 97

Scan 736 (5.341 min): 569695S.D
Abundance / Raw
91, 39, 44, 78, 106

Scan 736 (5.341 min): 569695S.D (-722) (-)
Abundance / Sub
91, 39, 78, 106

#22
1,3,5-Trimethylbenzene
Concen: 0.01 ug m
RT: 6.06 min   Scan# 836
Delta R.T.   0.03 min
Lab File: 569695S.D
Acq: 28 Jun 2008   11:22 am

Tgt Ion:105 Resp: 2786

Ion	Ratio	Lower	Upper
105	100		
120	45.2	45.1	67.7
77	5.7	12.2	18.4#

#23
1,2,4-Trimethylbenzene
Concen: 0.01 ug m
RT: 6.29 min   Scan# 869
Delta R.T.   0.04 min
Lab File: 569695S.D
Acq: 28 Jun 2008   11:22 am

Tgt Ion:105 Resp: 3428

Ion	Ratio	Lower	Upper
105	100		
120	33.5	42.9	64.3#
77	0.0	11.9	17.9#

#27
Undecane
Concen: 0.01 ug m
RT: 7.08 min   Scan# 979
Delta R.T.   0.05 min
Lab File: 569695S.D
Acq: 28 Jun 2008 11:22 am

Tgt Ion: 57 Resp: 2072

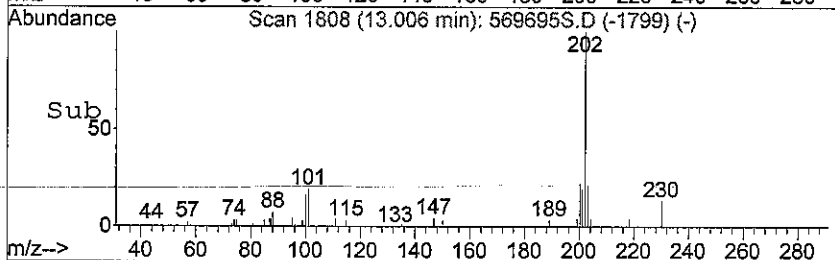| Ion	Ratio	Lower	Upper
57	100		
43	0.0	66.6	100.0#
71	0.0	44.7	67.1#

#28
Naphthalene
Concen: 0.21 ug m
RT: 7.87 min   Scan# 1089
Delta R.T.   0.02 min
Lab File: 569695S.D
Acq: 28 Jun 2008 11:22 am

Tgt Ion:128 Resp: 95568

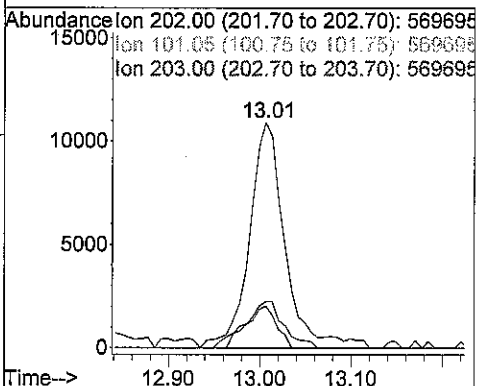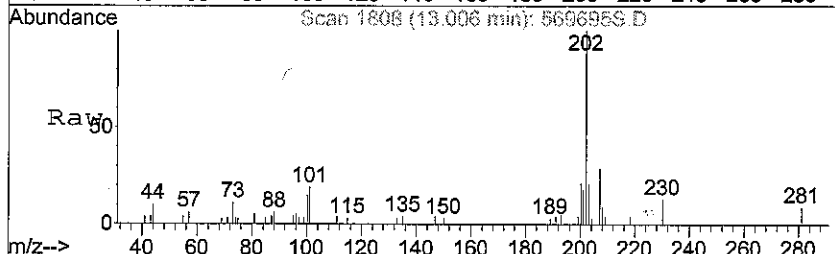| Ion	Ratio	Lower	Upper
128	100		
102	7.1	10.1	15.1#
127	8.4	14.2	21.4#

#29
Tridecane
Concen: 0.01 ug m
RT: 8.44 min   Scan# 1170
Delta R.T.   0.03 min
Lab File: 569695S.D
Acq: 28 Jun 2008   11:22 am

Tgt Ion: 57 Resp: 1571
Ion   Ratio   Lower   Upper
 57   100
 43   31.7   61.8   92.8#
 71   45.9   54.4   81.6#

#30
2-Methyl naphthalene
Concen: 0.05 ug m
RT: 8.63 min   Scan# 1196
Delta R.T.   0.03 min
Lab File: 569695S.D
Acq: 28 Jun 2008   11:22 am

Tgt Ion:142 Resp: 16677
Ion   Ratio   Lower   Upper
142   100
141   81.0   69.2   103.8
115   29.1   29.8   44.8#

Top panel (Ref): Abundance, Scan 1332 (9.604 min): 20SVOC.D (-1319) (-)

Ref 50

Peaks: 43, 57, 76, 87, 98, 113, 126, 138, 152, 166, 182, 212

m/z--> 40 60 80 100 120 140 160 180 200

Middle panel (Raw): Abundance, Scan 1333 (9.610 min): 569695S.D

Raw 50

Peaks: 44, 57, 69, 85, 141, 152, 165, 207

m/z--> 40 60 80 100 120 140 160 180 200

Bottom panel (Sub): Abundance, Scan 1333 (9.610 min): 569695S.D (-1321) (-)

Sub 50

Peaks: 43, 57, 71, 85, 152, 165, 207

m/z--> 40 60 80 100 120 140 160 180 200

#31
Acenaphthylene
Concen: 0.01 ug m
RT: 9.61 min   Scan# 1333
Delta R.T.   0.01 min
Lab File: 569695S.D
Acq: 28 Jun 2008   11:22 am

Tgt Ion:152 Resp: 4898

Ion	Ratio	Lower	Upper
152	100		
76	0.0	12.6	18.8#
151	16.7	21.7	32.5#

Abundance Ion 152.00 (151.70 to 152.70): 569695
3000 Ion 76.95 (75.65 to 76.65): 569695S.
Ion 151.00 (150.70 to 151.70): 569695

Peak: 9.61

2000

1000

Time--> 9.55 9.60 9.65 9.70

Top panel (Ref): Abundance, Scan 1335 (9.625 min): 20SVOC.D (-1327) (-)

Ref 50

Peaks: 43, 57, 71, 85, 99, 113, 127, 140, 152, 169, 183, 197, 212

m/z--> 40 60 80 100 120 140 160 180 200 220

Middle panel (Raw): Abundance, Scan 1327 (9.567 min): 569695S.D

Raw 50

Peaks: 43, 57, 71, 85, 95, 152, 165, 178, 207

m/z--> 40 60 80 100 120 140 160 180 200 220

Bottom panel (Sub): Abundance, Scan 1327 (9.567 min): 569695S.D (-1323) (-)

Sub 50

Peaks: 43, 57, 71, 85, 95, 152, 165, 178, 207

m/z--> 40 60 80 100 120 140 160 180 200 220

#32
Pentadecane
Concen: 0.01 ug m
RT: 9.57 min   Scan# 1327
Delta R.T.   -0.05 min
Lab File: 569695S.D
Acq: 28 Jun 2008   11:22 am

Tgt Ion: 57 Resp: 2863

Ion	Ratio	Lower	Upper
57	100		
43	6.3	57.7	86.5#
71	18.1	58.2	87.2#

Abundance Ion 57.00 (56.70 to 57.70): 569695S.
2000 Ion 43.00 (42.70 to 43.70): 569695S.
Ion 71.00 (70.70 to 71.70): 569695S.

Peak: 9.57

1500

1000

500

Time--> 9.50 9.52 9.54 9.56 9.58 9.60

#33
Acenaphthene
Concen: 0.13 ug m
RT: 9.80 min   Scan# 1359
Delta R.T.   0.01 min
Lab File: 569695S.D
Acq: 28 Jun 2008 11:22 am

Tgt Ion:153 Resp: 45952

Ion	Ratio	Lower	Upper
153	100		
154	94.1	78.6	118.0
152	48.5	42.4	63.6

#34
Fluorene
Concen: 0.07 ug m
RT: 10.37 min   Scan# 1439
Delta R.T.   0.01 min
Lab File: 569695S.D
Acq: 28 Jun 2008 11:22 am

Tgt Ion:166 Resp: 28041

Ion	Ratio	Lower	Upper
166	100		
165	81.2	73.4	110.2
82	18.3	13.8	20.8

#35
Phenanthrene
Concen: 0.30 ug m
RT: 11.44 min   Scan# 1589
Delta R.T.   −0.00 min
Lab File: 569695S.D
Acq: 28 Jun 2008   11:22 am

Tgt Ion:178 Resp: 128842

Ion	Ratio	Lower	Upper
178	100		
152	10.1	7.0	10.6
179	15.2	12.9	19.3

#36
Anthracene
Concen: 0.20 ug m
RT: 11.50 min   Scan# 1597
Delta R.T.   −0.01 min
Lab File: 569695S.D
Acq: 28 Jun 2008   11:22 am

Tgt Ion:178 Resp: 84906

Ion	Ratio	Lower	Upper
178	100		
152	4.6	6.2	9.4#
179	8.4	12.1	18.1#

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#37
Fluoranthene
Concen: 0.10 ug m
RT: 12.75 min   Scan# 1772
Delta R.T.   -0.01 min
Lab File: 569695S.D
Acq: 28 Jun 2008   11:22 am

Tgt Ion:202 Resp: 44522
Ion   Ratio   Lower   Upper
202   100
101   11.6   10.0   15.0
203   17.3   13.8   20.6

#38
Pyrene
Concen: 0.07 ug m
RT: 13.01 min   Scan# 1808
Delta R.T.   -0.01 min
Lab File: 569695S.D
Acq: 28 Jun 2008   11:22 am

Tgt Ion:202 Resp: 29408
Ion   Ratio   Lower   Upper
202   100
101   16.2   12.5   18.7
203   22.1   12.5   18.7#

```
                      Quantitation Report      (QT Reviewed)

Data File : C:\MSDCHEM\#8\74768EJF\569696S.D           Vial: 15
Acq On    : 27 Jun 2008    4:38 pm                     Operator: DC/DD
Sample    :                                            Inst    : Instrumen
Misc      :                                            Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:58 2008          Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8

  Internal Standards                  R.T. QIon  Response  Conc Units Dev(Min)
  ------------------------------------------------------------------------------


Target Compounds                                                    Qvalue
   1) Methyl t-butyl ether           2.30   73       0     N.D.
   2) 1,1-Dichloroethene             2.10   61       0     N.D.
   3) trans-1,2-Dichloroethene       2.30   61       0     N.D.
   4) 1,1-Dichloroethane             2.37   63       0     N.D.
   5) cis-1,2-Dichloroethene         2.52   61       0     N.D.
   6) Chloroform                     2.64   83       0     N.D.
   7) 1,1,1-Trichloroethane          2.79   97       0     N.D.
   8) 1,2-Dichloroethane             2.87   62       0     N.D.
   9) Benzene                        2.93   78    9044m    0.04 ug       #
  10) Carbon tetrachloride           2.92  117       0     N.D.
  11) Trichloroethene                3.28   95       0     N.D.
  12) 1,1,2- Trichloroethane         4.13   97       0     N.D.
  13) Toluene                        3.98   91       0     N.D.
  14) Octane                         4.29   43       0     N.D.
  15) Tetrachloroethene              4.40  166       0     N.D.
  16) Chlorobenzene                  4.86  112       0     N.D.
  17) 1,1,1,2- Tetrachloroethane     4.93  131       0     N.D.
  18) Ethylbenzene                   4.99   91       0     N.D.
  19) m,p-Xylene                     5.08   91       0     N.D.
  20) o-Xylene                       5.32   91       0     N.D.
  21) 1,1,2,2-Tetrachloroethane      5.60   83       0     N.D.
  22) 1,3,5-Trimethylbenzene         6.03  105       0     N.D.
  23) 1,2,4-Trimethylbenzene         6.26  105       0     N.D.
  24) 1,3-Dichlorobenzene            6.39  146       0     N.D.
  25) 1,4-Dichlorobenzene            6.47  146       0     N.D.
  26) 1,2-Dichlorobenzene            6.63  146       0     N.D.
  27) Undecane                       7.03   57       0     N.D.
  28) Naphthalene                    7.89  128   42713m    0.09 ug       #
  29) Tridecane                      8.42   57       0     N.D.
  30) 2-Methyl naphthalene           8.65  142    9017m    0.03 ug       #
  31) Acenaphthylene                 9.60  152       0     N.D.
  32) Pentadecane                    9.62   57       0     N.D.
  33) Acenaphthene                   9.81  153    8825m    0.03 ug       #
  34) Fluorene                      10.39  166    4996m    0.01 ug       #
  35) Phenanthrene                  11.45  178   14868m    0.03 ug       #
  36) Anthracene                    11.52  178   11092m    0.03 ug       #
  37) Fluoranthene                  12.76  202   16365m    0.04 ug       #
  38) Pyrene                        13.01  202   11241m    0.03 ug       #




  ------------------------------------------------------------------------------
  (#) = qualifier out of range (m) = manual integration (+) = signals summed
  569696S.D  A4-8.M        Wed Jul 02 10:37:04 2008      RPT1         Page 1
```

Data File : C:\MSDCHEM\#8\74768EJF\569696S.D   Vial: 15
Acq On   : 27 Jun 2008   4:38 pm   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

#9
Benzene
Concen: 0.04 ug m
RT: 2.93 min   Scan# 399
Delta R.T.   0.01 min
Lab File: 569696S.D
Acq: 27 Jun 2008   4:38 pm

Tgt Ion: 78 Resp: 9044

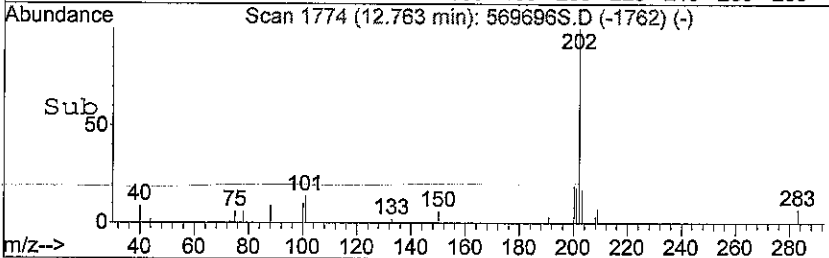| Ion	Ratio	Lower	Upper
78	100		
51	13.1	13.8	20.6#
52	11.4	13.7	20.5#

#28
Naphthalene
Concen: 0.09 ug m
RT: 7.89 min   Scan# 1092
Delta R.T.   0.04 min
Lab File: 569696S.D
Acq: 27 Jun 2008   4:38 pm

Tgt Ion:128 Resp: 42713

Ion	Ratio	Lower	Upper
128	100		
102	4.4	10.1	15.1#
127	6.4	14.2	21.4#

#30
2-Methyl naphthalene
Concen: 0.03 ug m
RT: 8.65 min   Scan# 1199
Delta R.T.   0.05 min
Lab File: 569696S.D
Acq: 27 Jun 2008   4:38 pm

Tgt Ion:142 Resp: 9017

Ion	Ratio	Lower	Upper
142	100		
141	0.0	69.2	103.8#
115	0.0	29.8	44.8#

Abundance Ion 141.95 (141.65 to 142.65): 569696
Ion 140.95 (140.65 to 141.65): 569696
Ion 114.95 (114.65 to 115.65): 569696

#33
Acenaphthene
Concen: 0.03 ug m
RT: 9.81 min   Scan# 1361
Delta R.T.   0.02 min
Lab File: 569696S.D
Acq: 27 Jun 2008   4:38 pm

Tgt Ion:153 Resp: 8825

Ion	Ratio	Lower	Upper
153	100		
154	87.8	78.6	118.0
152	50.9	42.4	63.6

Abundance Ion 153.00 (152.70 to 153.70): 569696
Ion 153.95 (153.65 to 154.65): 569696
Ion 152.00 (151.70 to 152.70): 569696

#34
Fluorene
Concen: 0.01 ug m
RT: 10.39 min   Scan# 1442
Delta R.T.   0.03 min
Lab File: 569696S.D
Acq: 27 Jun 2008   4:38 pm

Tgt Ion:166 Resp: 4996
Ion   Ratio   Lower   Upper
166   100
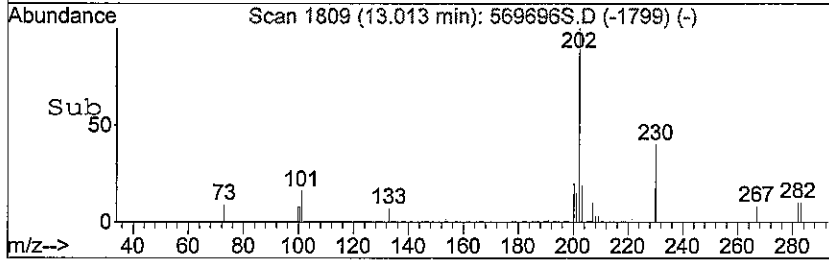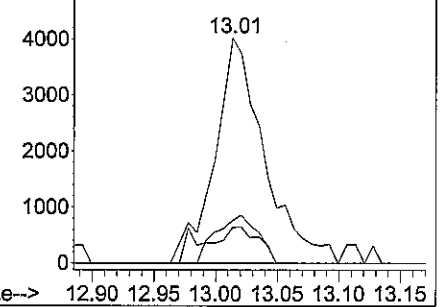165   73.2   73.4   110.2#
 82   10.7   13.8   20.8#

Abundance Ion 166.00 (165.70 to 166.70): 569696
Ion 165.00 (164.70 to 165.70): 569696
Ion 82.40 (82.10 to 83.10): 569696S.

#35
Phenanthrene
Concen: 0.03 ug m
RT: 11.45 min   Scan# 1591
Delta R.T.   0.01 min
Lab File: 569696S.D
Acq: 27 Jun 2008   4:38 pm

Tgt Ion:178 Resp: 14868
Ion   Ratio   Lower   Upper
178   100
152   10.0   7.0   10.6
179   15.1   12.9   19.3

Abundance Ion 178.05 (177.75 to 178.75): 569696
Ion 152.00 (151.70 to 152.70): 569696
Ion 179.05 (178.75 to 179.75): 569696

569696S.D   A4-8.M   Wed Jul 02 10:43:03 2008   RPT1   Page 5

#36
Anthracene
Concen: 0.03 ug m
RT: 11.52 min   Scan# 1600
Delta R.T.   0.01 min
Lab File: 569696S.D
Acq: 27 Jun 2008   4:38 pm

Tgt Ion:178 Resp: 11092

Ion	Ratio	Lower	Upper
178	100		
152	4.5	6.2	9.4#
179	15.9	12.1	18.1

#37
Fluoranthene
Concen: 0.04 ug m
RT: 12.76 min   Scan# 1774
Delta R.T.   0.01 min
Lab File: 569696S.D
Acq: 27 Jun 2008   4:38 pm

Tgt Ion:202 Resp: 16365

Ion	Ratio	Lower	Upper
202	100		
101	13.0	10.0	15.0
203	15.2	13.8	20.6

Scan 2684 (14.134 min): PAH.D (-)

Scan 1809 (13.013 min): 569696S.D

Scan 1809 (13.013 min): 569696S.D (-1799) (-)

```
#38
Pyrene
Concen:      0.03 ug m
RT: 13.01 min   Scan# 1809
Delta R.T.    -0.01 min
Lab File:     569696S.D
Acq: 27 Jun 2008    4:38 pm

Tgt Ion:202 Resp:     11241
Ion  Ratio   Lower   Upper
202  100
101   11.3    12.5   18.7#
203   18.1    12.5   18.7
```

Ion 202.00 (201.70 to 202.70): 569696
Ion 101.05 (100.75 to 101.75): 569696
Ion 203.00 (202.70 to 203.70): 569696

Data File : C:\MSDCHEM\#8\74768EJF\569697S.D   Vial: 57
Acq On   : 28 Jun 2008 12:18 pm   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:59 2008   Quant Results File: A4-8.RES
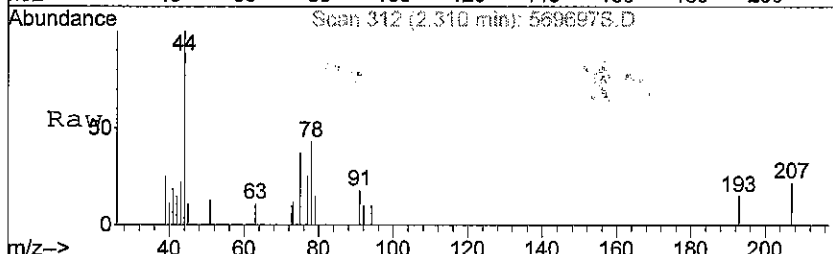
Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
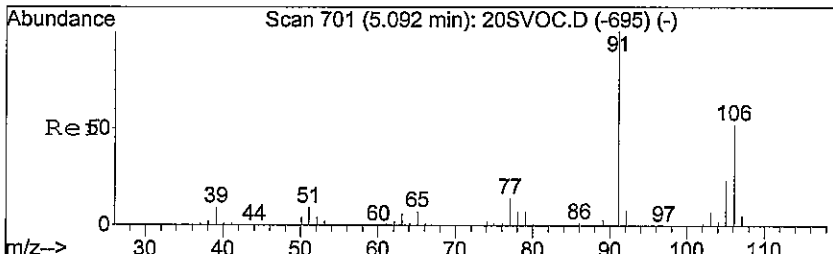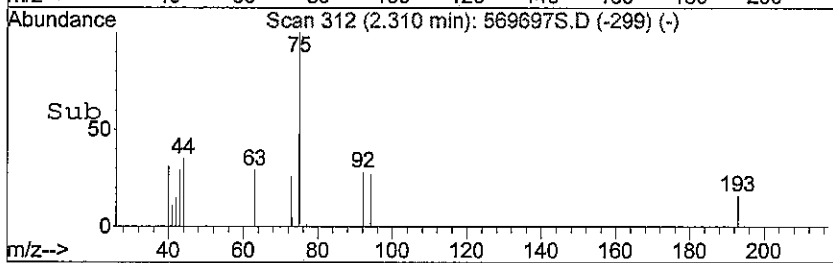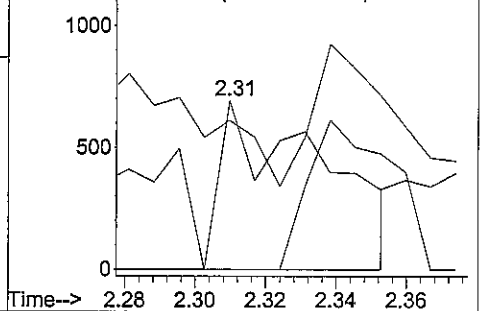Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8

Internal Standards	R.T.	QIon	Response	Conc Units Dev(Min)

Target Compounds					Qvalue
1) Methyl t-butyl ether	2.31	73	1401m	0.01 ug	#
2) 1,1-Dichloroethene	2.10	61	0	N.D.	
3) trans-1,2-Dichloroethene	2.30	61	0	N.D.	
4) 1,1-Dichloroethane	2.37	63	0	N.D.	
5) cis-1,2-Dichloroethene	2.52	61	0	N.D.	
6) Chloroform	2.64	83	0	N.D.	
7) 1,1,1-Trichloroethane	2.79	97	0	N.D.	
8) 1,2-Dichloroethane	2.87	62	0	N.D.	
9) Benzene	2.92	78	0	N.D.	
10) Carbon tetrachloride	2.92	117	0	N.D.	
11) Trichloroethene	3.28	95	0	N.D.	
12) 1,1,2- Trichloroethane	4.13	97	0	N.D.	
13) Toluene	3.98	91	0	N.D.	
14) Octane	4.29	43	0	N.D.	
15) Tetrachloroethene	4.40	166	0	N.D.	
16) Chlorobenzene	4.86	112	0	N.D.	
17) 1,1,1,2- Tetrachloroethane	4.93	131	0	N.D.	
18) Ethylbenzene	4.99	91	0	N.D.	
19) m,p-Xylene	5.13	91	6348m	0.02 ug	#
20) o-Xylene	5.35	91	3250m	0.01 ug	#
21) 1,1,2,2-Tetrachloroethane	5.60	83	0	N.D.	
22) 1,3,5-Trimethylbenzene	6.03	105	0	N.D.	
23) 1,2,4-Trimethylbenzene	6.26	105	0	N.D.	
24) 1,3-Dichlorobenzene	6.39	146	0	N.D.	
25) 1,4-Dichlorobenzene	6.47	146	0	N.D.	
26) 1,2-Dichlorobenzene	6.63	146	0	N.D.	
27) Undecane	7.03	57	0	N.D.	
28) Naphthalene	7.84	128	0	N.D.	
29) Tridecane	8.42	57	0	N.D.	
30) 2-Methyl naphthalene	8.60	142	0	N.D.	
31) Acenaphthylene	9.60	152	0	N.D.	
32) Pentadecane	9.62	57	0	N.D.	
33) Acenaphthene	9.83	153	1545m	0.00 ug	#
34) Fluorene	10.36	166	0	N.D.	
35) Phenanthrene	11.46	178	8275m	0.02 ug	#
36) Anthracene	11.52	178	8546m	0.02 ug	#
37) Fluoranthene	12.76	202	8615m	0.02 ug	#
38) Pyrene	13.01	202	7098m	0.02 ug	#

569697S.D   A4-8.M   Wed Jul 02 10:37:05 2008   RPT1   Page 2

Abundance — Scan 306 (2.267 min): 20SVOC.D (-301) (-)

Res 50

73
61
43
96
83

m/z--> 40 60 80 100 120 140 160 180 200

Abundance — Scan 312 (2.310 min): 569697S.D

Raw 50

44
78
63
91
193 207

m/z--> 40 60 80 100 120 140 160 180 200

Abundance — Scan 312 (2.310 min): 569697S.D (-299) (-)

Sub 50

75
44
63
92
193

m/z--> 40 60 80 100 120 140 160 180 200

#1
Methyl t-butyl ether
Concen: 0.01 ug m
RT: 2.31 min   Scan# 312
Delta R.T.   0.01 min
Lab File: 569697S.D
Acq: 28 Jun 2008 12:18 pm

Tgt Ion: 73 Resp: 1401
Ion Ratio   Lower   Upper
 73 100
 57   0.0   17.9   26.9#
 41   0.0   16.6   24.8#

Abundance Ion 73.00 (72.70 to 73.70): 569697S.I
Ion 57.00 (56.70 to 57.70): 569697S.I
Ion 41.05 (40.75 to 41.75): 569697S.I

1000

2.31

500

0

Time--> 2.28 2.30 2.32 2.34 2.36

Abundance — Scan 701 (5.092 min): 20SVOC.D (-695) (-)

Res 50

91
106
39
44
51
60 65
77
86
97

m/z--> 30 40 50 60 70 80 90 100 110

Abundance — Scan 706 (5.127 min): 569697S.D

Raw 50

91
106
44
39
51
77

m/z--> 30 40 50 60 70 80 90 100 110

Abundance — Scan 706 (5.127 min): 569697S.D (-689) (-)

Sub 50

91
106
39
44
51
77

m/z--> 30 40 50 60 70 80 90 100 110

#19
m,p-Xylene
Concen: 0.02 ug m
RT: 5.13 min   Scan# 706
Delta R.T.   0.04 min
Lab File: 569697S.D
Acq: 28 Jun 2008 12:18 pm

Tgt Ion: 91 Resp: 6348
Ion Ratio   Lower   Upper
 91 100
106   27.8   45.1   67.7#
105   13.1   20.6   31.0#

Abundance Ion 90.95 (90.65 to 91.65): 569697S.I
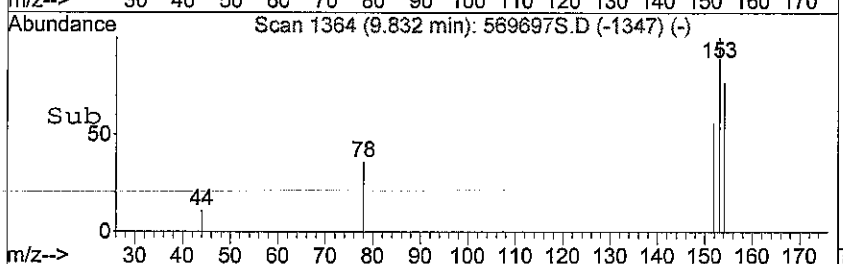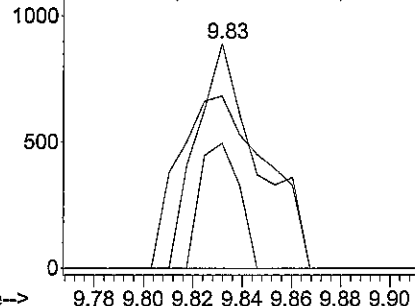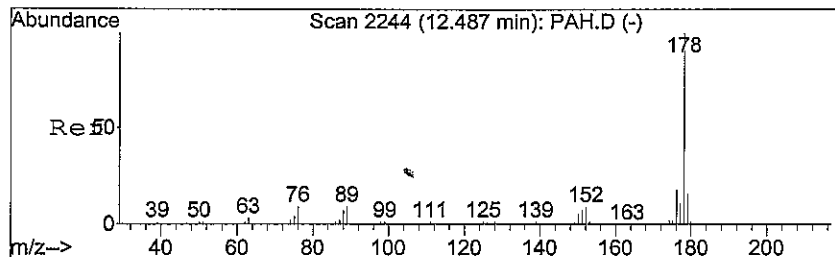Ion 106.05 (105.75 to 106.75): 569697
Ion 105.05 (104.75 to 105.75): 569697

3000

5.13

2000

1000

0

Time--> 5.05 5.10 5.15 5.20 5.25

#20
o-Xylene
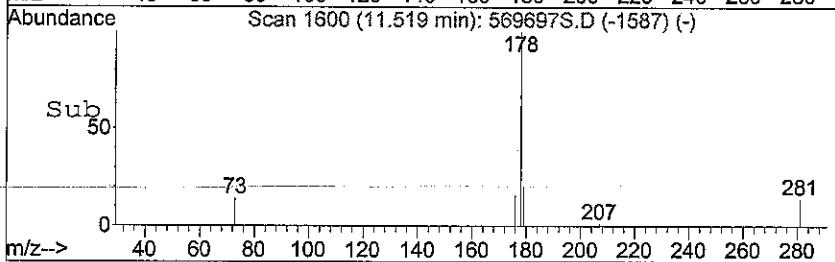Concen: 0.01 ug m
RT: 5.35 min   Scan# 737
Delta R.T.   0.03 min
Lab File: 569697S.D
Acq: 28 Jun 2008   12:18 pm

Tgt	Ion: 91	Resp:	3250
Ion	Ratio	Lower	Upper
91	100		
106	27.4	43.1	64.7#
105	4.1	18.2	27.2#

#33
Acenaphthene
Concen: 0.00 ug m
RT: 9.83 min   Scan# 1364
Delta R.T.   0.04 min
Lab File: 569697S.D
Acq: 28 Jun 2008   12:18 pm

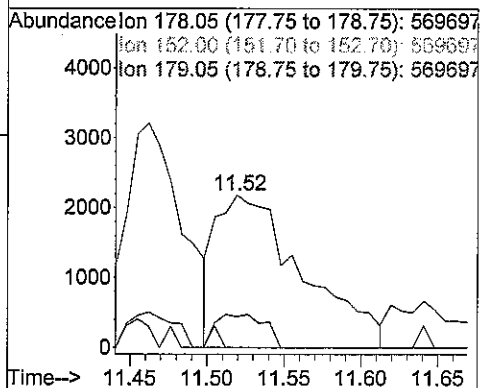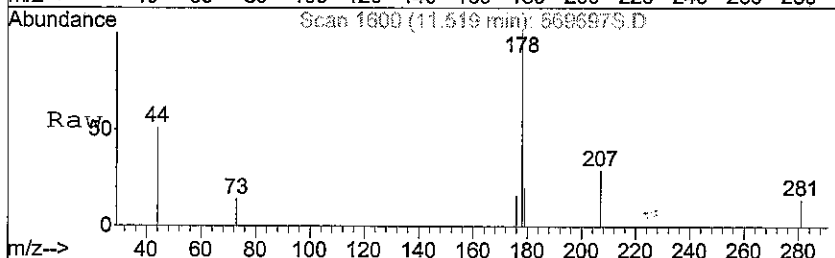| Tgt	Ion:153	Resp:	1545
Ion	Ratio	Lower	Upper
153	100		
154	76.6	78.6	118.0#
152	35.3	42.4	63.6#

#35

Phenanthrene
Concen: 0.02 ug m
RT: 11.46 min   Scan# 1592
Delta R.T.   0.02 min
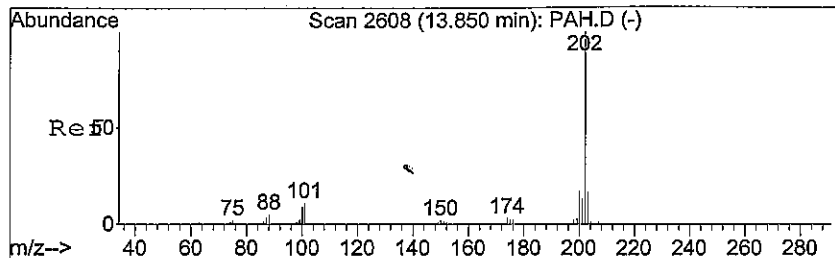Lab File: 569697S.D
Acq: 28 Jun 2008   12:18 pm

Tgt Ion:178 Resp: ·8275

Ion	Ratio	Lower	Upper
178	100		
152	6.9	7.0	10.6#
179	12.6	12.9	19.3#

#36

Anthracene
Concen: 0.02 ug m
RT: 11.52 min   Scan# 1600
Delta R.T.   0.01 min
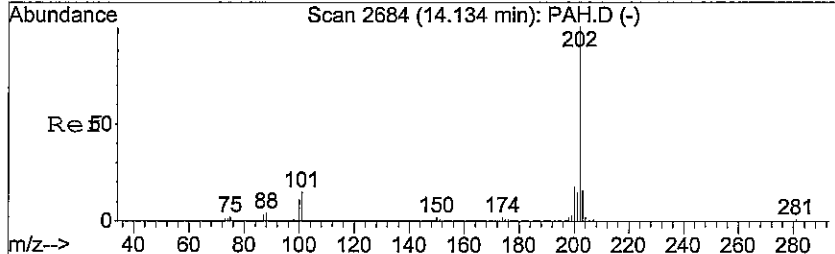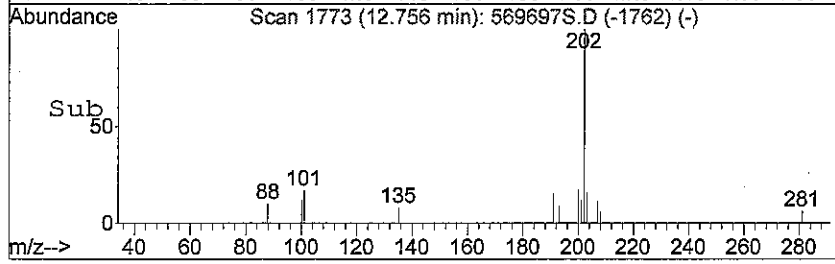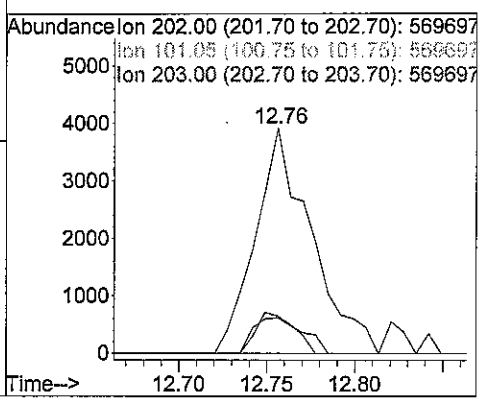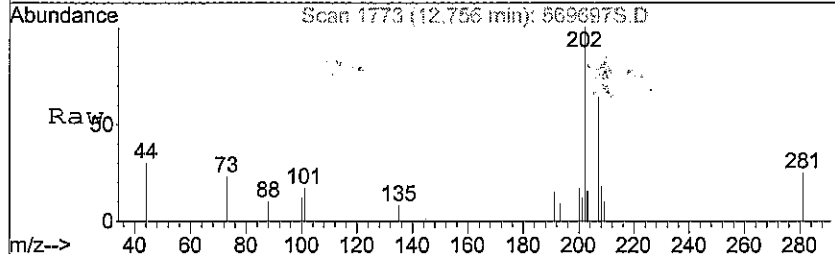Lab File: 569697S.D
Acq: 28 Jun 2008   12:18 pm

Tgt Ion:178 Resp: 8546

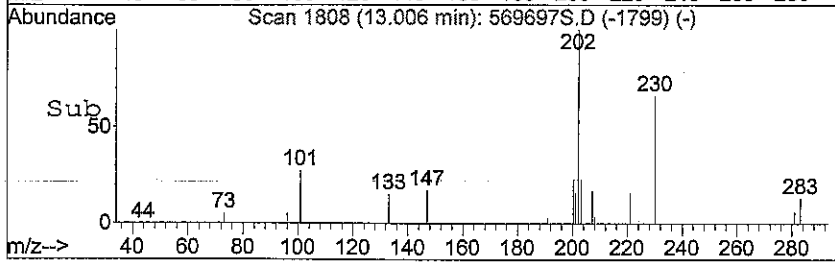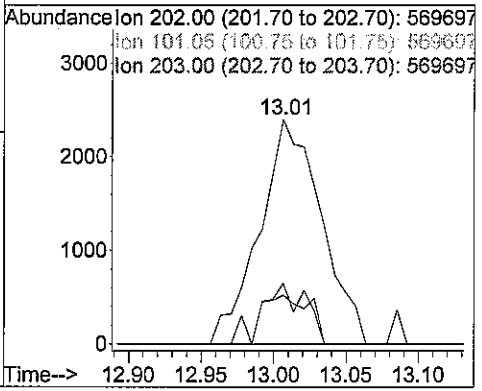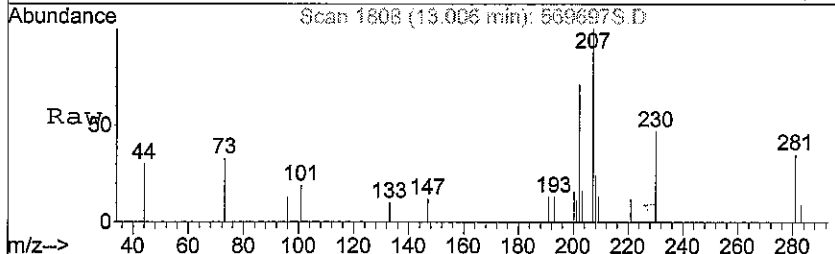| Ion	Ratio	Lower	Upper
178	100		
152	0.0	6.2	9.4#
179	12.3	12.1	18.1

#37
Fluoranthene
Concen: 0.02 ug m
RT: 12.76 min   Scan# 1773
Delta R.T.   -0.00 min
Lab File: 569697S.D
Acq: 28 Jun 2008   12:18 pm

Tgt Ion:202 Resp: 8615

Ion	Ratio	Lower	Upper
202	100		
101	12.4	10.0	15.0
203	14.1	13.8	20.6

#38
Pyrene
Concen: 0.02 ug m
RT: 13.01 min   Scan# 1808
Delta R.T.   -0.01 min
Lab File: 569697S.D
Acq: 28 Jun 2008   12:18 pm

Tgt Ion:202 Resp: 7098

Ion	Ratio	Lower	Upper
202	100		
101	19.0	12.5	18.7#
203	16.5	12.5	18.7

```
                     Quantitation Report      (QT Reviewed)

Data File : C:\MSDCHEM\#8\74768EJF\569698S.D            Vial: 29
Acq On    : 27 Jun 2008  11:10 pm              Operator: DC/DD
Sample    :                                    Inst    : Instrumen
Misc      :                                    Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:53:59 2008         Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8


  Internal Standards            R.T. QIon  Response  Conc Units Dev(Min)
---------------------------------------------------------------------------


Target Compounds                                               Qvalue
   1) Methyl t-butyl ether      2.30   73    1240m   0.01 ug      #
   2) 1,1-Dichloroethene        2.10   61       0    N.D.
   3) trans-1,2-Dichloroethene  2.30   61       0    N.D.
   4) 1,1-Dichloroethane        2.37   63       0    N.D.
   5) cis-1,2-Dichloroethene    2.52   61       0    N.D.
   6) Chloroform                2.64   83       0    N.D.
   7) 1,1,1-Trichloroethane     2.79   97       0    N.D.
   8) 1,2-Dichloroethane        2.87   62       0    N.D.
   9) Benzene                   2.93   78    6972m   0.03 ug      #
  10) Carbon tetrachloride      2.92  117       0    N.D.
  11) Trichloroethene           3.28   95       0    N.D.
  12) 1,1,2- Trichloroethane    4.13   97       0    N.D.
  13) Toluene                   4.00   91   14942m   0.05 ug      #
  14) Octane                    4.29   43       0    N.D.
  15) Tetrachloroethene         4.40  166       0    N.D.
  16) Chlorobenzene             4.86  112       0    N.D.
  17) 1,1,1,2- Tetrachloroethane 4.93 131       0    N.D.
  18) Ethylbenzene              5.01   91    5918m   0.02 ug      #
  19) m,p-Xylene                5.11   91   17886m   0.07 ug      #
  20) o-Xylene                  5.33   91   10172m   0.04 ug      #
  21) 1,1,2,2-Tetrachloroethane 5.60   83       0    N.D.
  22) 1,3,5-Trimethylbenzene    6.04  105    8637m   0.03 ug      #
  23) 1,2,4-Trimethylbenzene    6.26  105   24543m   0.08 ug      #
  24) 1,3-Dichlorobenzene       6.39  146       0    N.D.
  25) 1,4-Dichlorobenzene       6.47  146       0    N.D.
  26) 1,2-Dichlorobenzene       6.63  146       0    N.D.
  27) Undecane                  7.04   57    4723m   0.03 ug      #
  28) Naphthalene               7.84  128  320710m   0.70 ug      #
  29) Tridecane                 8.42   57    1889m   0.01 ug      #
  30) 2-Methyl naphthalene      8.59  142   59357m   0.17 ug      #
  31) Acenaphthylene            9.60  152   32206m   0.05 ug      #
  32) Pentadecane               9.62   57    3600m   0.02 ug
  33) Acenaphthene              9.78  153 2343966m   6.66 ug      #
  34) Fluorene                 10.35  166  201403m   0.47 ug      #
  35) Phenanthrene             11.43  178  101976m   0.24 ug      #
  36) Anthracene               11.48  178  217773m   0.51 ug      #
  37) Fluoranthene             12.74  202  241573m   0.57 ug      #
  38) Pyrene                   13.00  202  168924m   0.40 ug      #




------------------------------------------------------------------------------
 (#) = qualifier out of range (m) = manual integration (+) = signals summed
 569698S.D  A4-8.M      Wed Jul 02 10:37:05 2008      RPT1         Page 1
```
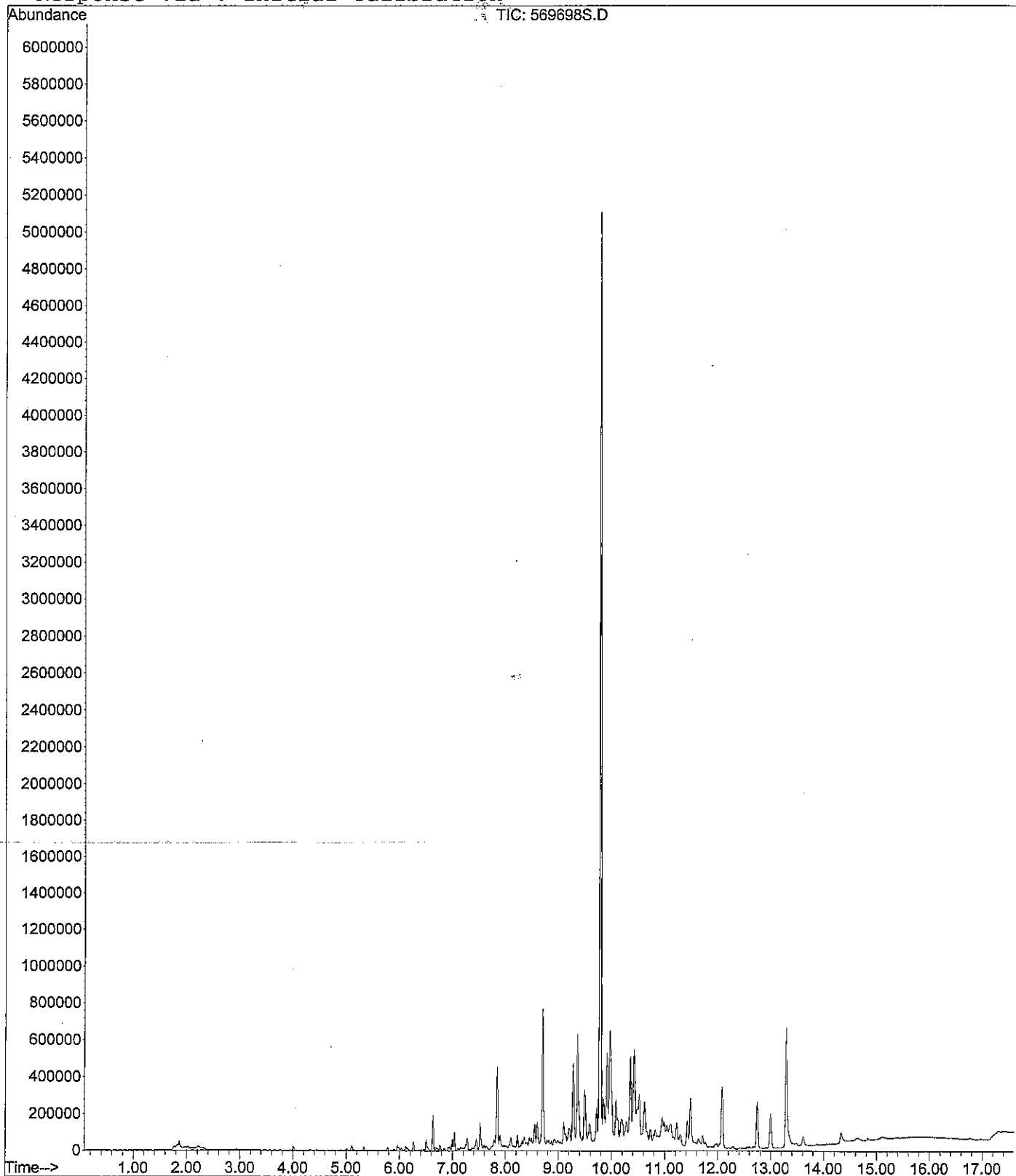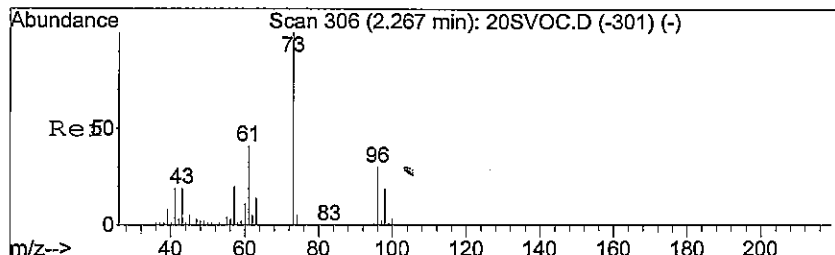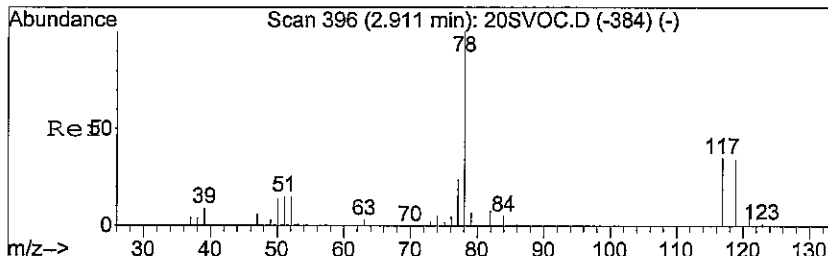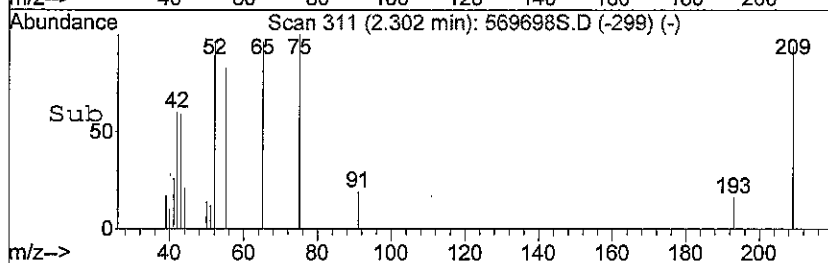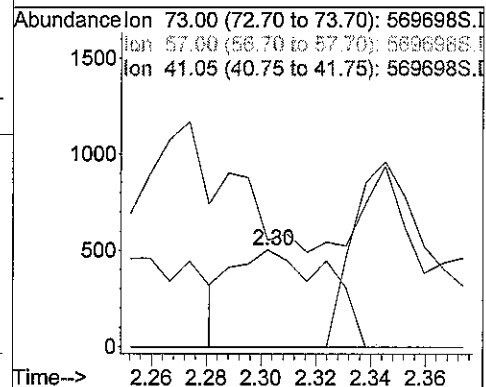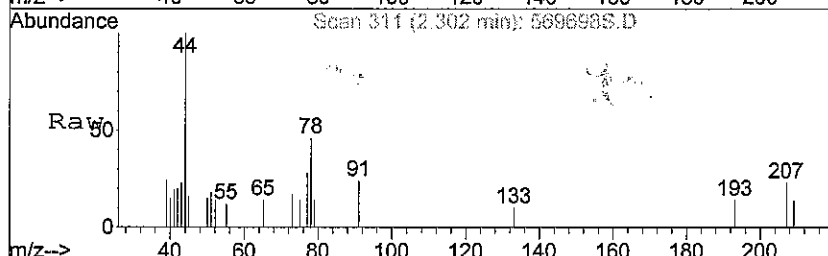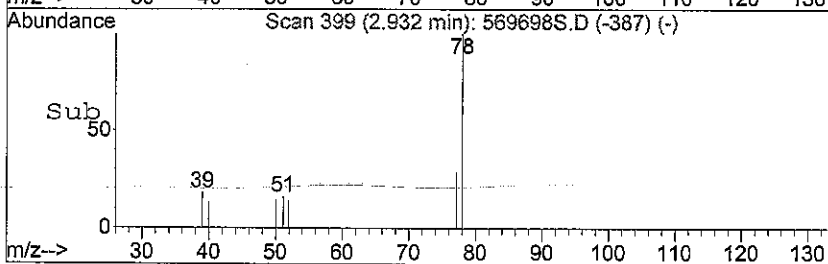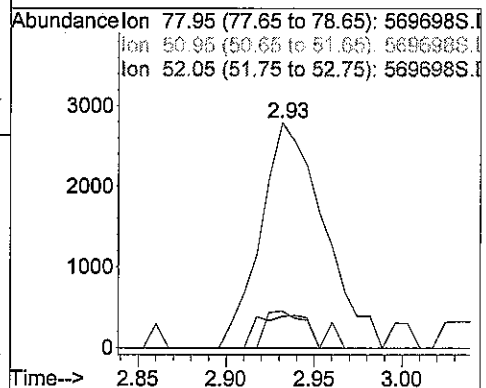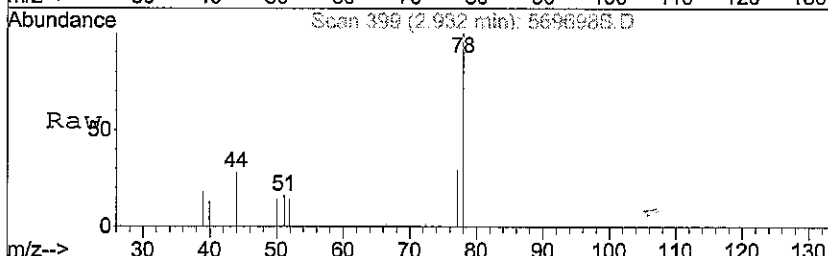
Data File : C:\MSDCHEM\#8\74768EJF\569698S.D   Vial: 29
Acq On   : 27 Jun 2008   11:10 pm   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 15:09 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

569698S.D   A4-8.M   Wed Jul 02 10:37:05 2008   RPT1   Page 2

Scan 306 (2.267 min): 20SVOC.D (-301) (-)
Abundance / Rel
73, 61, 43, 96, 83

Scan 311 (2.302 min): 569698S.D
Abundance / Raw
44, 78, 55, 65, 91, 133, 193, 207

Scan 311 (2.302 min): 569698S.D (-299) (-)
Abundance / Sub
52, 65, 75, 42, 209, 91, 193

#1
Methyl t-butyl ether
Concen: 0.01 ug m
RT: 2.30 min   Scan# 311
Delta R.T.   0.01 min
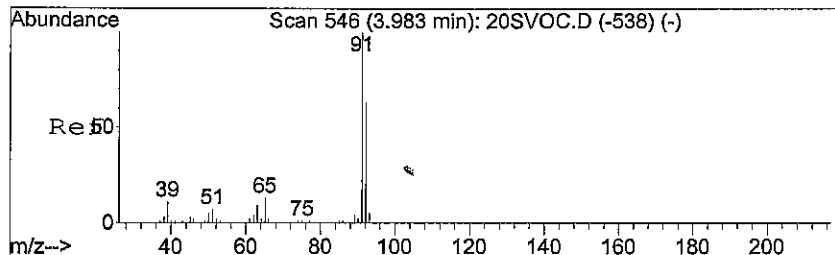Lab File: 569698S.D
Acq: 27 Jun 2008   11:10 pm

Tgt Ion: 73	Resp:		1240
Ion	Ratio	Lower	Upper
73	100		
57	0.0	17.9	26.9#
41	0.0	16.6	24.8#

Abundance Ion 73.00 (72.70 to 73.70): 569698S.D
Ion 57.00 (56.70 to 57.70): 569698S.D
Ion 41.05 (40.75 to 41.75): 569698S.D
2.30

Scan 396 (2.911 min): 20SVOC.D (-384) (-)
Abundance / Rel
78, 39, 51, 63, 70, 84, 117, 123

Scan 399 (2.932 min): 569698S.D
Abundance / Raw
78, 44, 51

Scan 399 (2.932 min): 569698S.D (-387) (-)
Abundance / Sub
78, 39, 51

#9
Benzene
Concen: 0.03 ug m
RT: 2.93 min   Scan# 399
Delta R.T.   0.01 min
Lab File: 569698S.D
Acq: 27 Jun 2008   11:10 pm

Tgt Ion: 78	Resp:		6972
Ion	Ratio	Lower	Upper
78	100		
51	9.9	13.8	20.6#
52	13.7	13.7	20.5#

Abundance Ion 77.95 (77.65 to 78.65): 569698S.D
Ion 50.95 (50.65 to 51.65): 569698S.D
Ion 52.05 (51.75 to 52.75): 569698S.D
2.93

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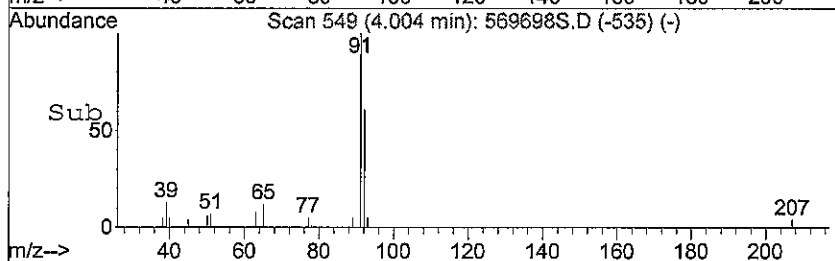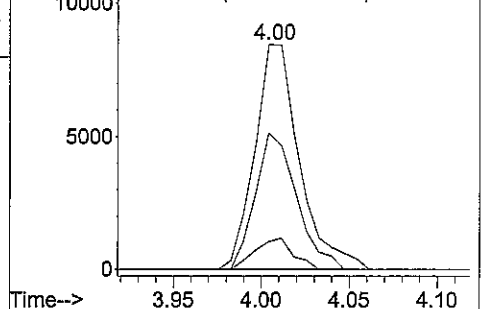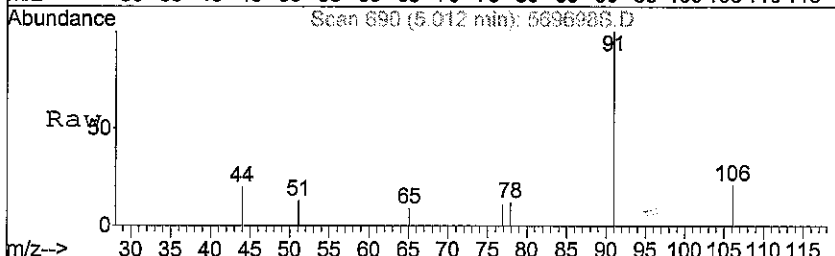
#13
Toluene
Concen: 0.05 ug m
RT: 4.00 min   Scan# 549
Delta R.T.   0.02 min
Lab File: 569698S.D
Acq: 27 Jun 2008   11:10 pm

Tgt Ion: 91 Resp: 14942
Ion   Ratio   Lower   Upper
 91   100
 65   11.9   11.2   16.8
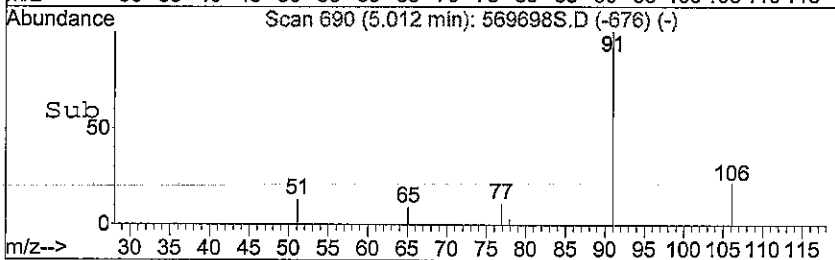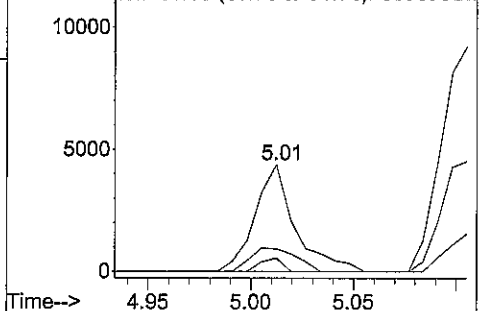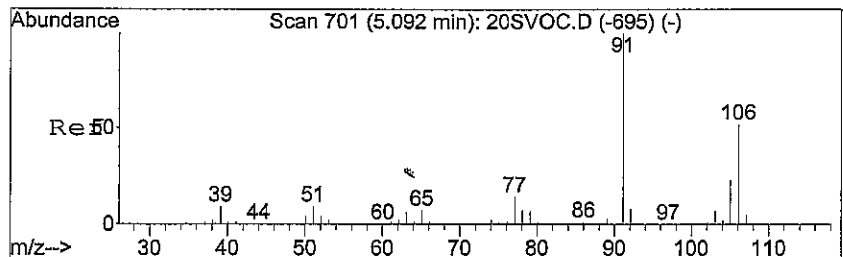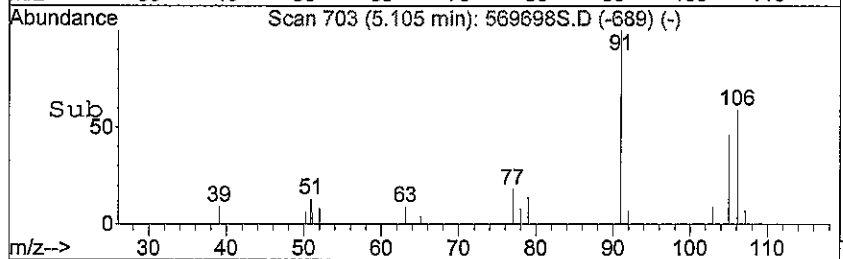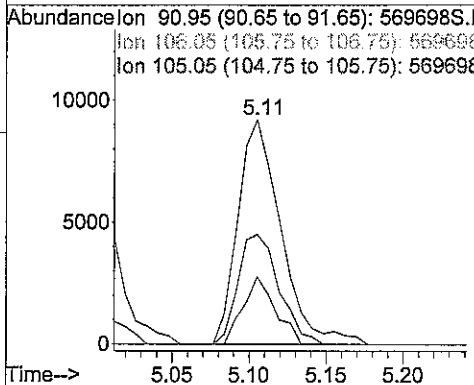 92   54.6   52.9   79.3

#18
Ethylbenzene
Concen: 0.02 ug m
RT: 5.01 min   Scan# 690
Delta R.T.   0.02 min
Lab File: 569698S.D
Acq: 27 Jun 2008   11:10 pm

Tgt Ion: 91 Resp: 5918
Ion   Ratio   Lower   Upper
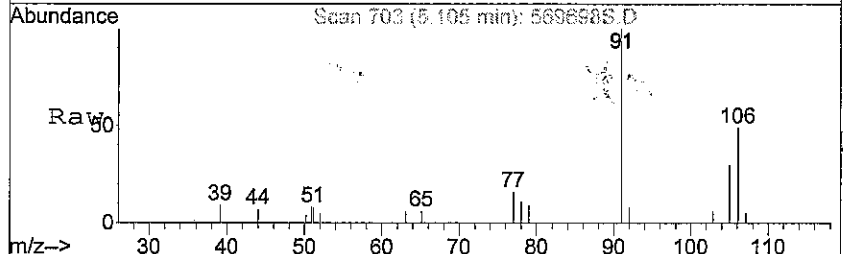 91   100
106   25.1   30.8   46.2#
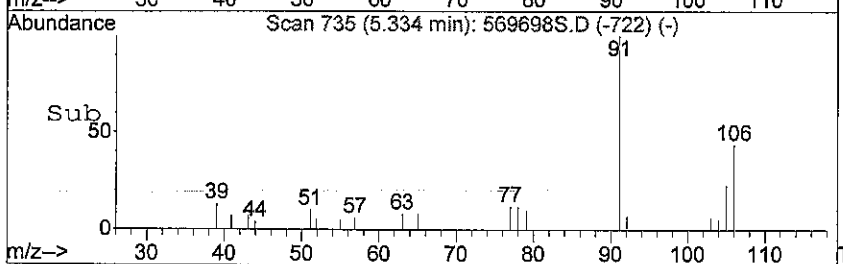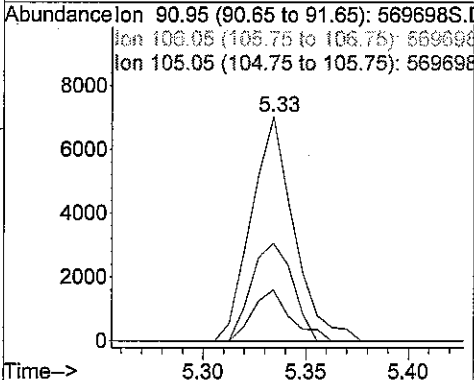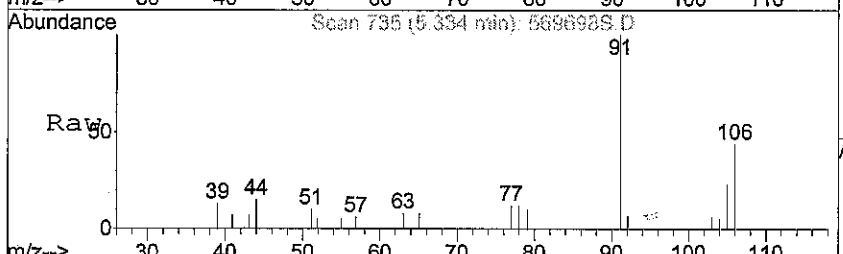 51   6.9   9.4   14.0#

#19
m,p-Xylene
Concen: 0.07 ug m
RT: 5.11 min   Scan# 703
Delta R.T.   0.02 min
Lab File: 569698S.D
Acq: 27 Jun 2008   11:10 pm

Tgt Ion: 91	Resp:		17886
Ion	Ratio	Lower	Upper
91	100		
106	45.8	45.1	67.7
105	22.5	20.6	31.0

#20
o-Xylene
Concen: 0.04 ug m
RT: 5.33 min   Scan# 735
Delta R.T.   0.01 min
Lab File: 569698S.D
Acq: 27 Jun 2008   11:10 pm

Tgt Ion: 91	Resp:		10172
Ion	Ratio	Lower	Upper
91	100		
106	42.0	43.1	64.7#
105	20.4	18.2	27.2

#22
1,3,5-Trimethylbenzene
Concen: 0.03 ug m
RT: 6.04 min   Scan# 834
Delta R.T.   0.01 min
Lab File: 569698S.D
Acq: 27 Jun 2008   11:10 pm

Tgt Ion:105 Resp: 8637
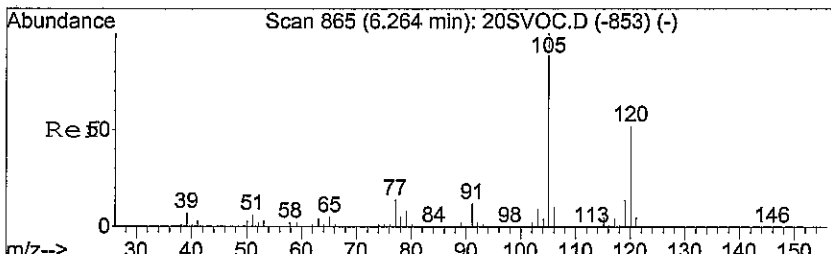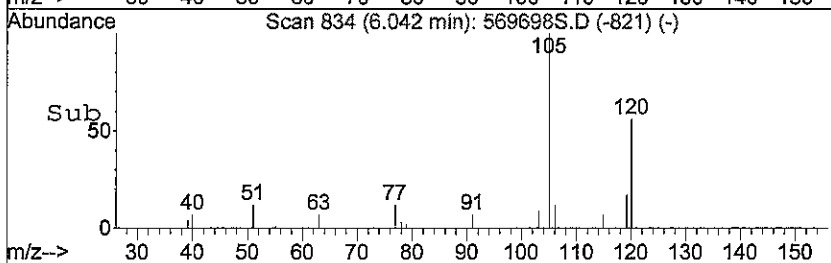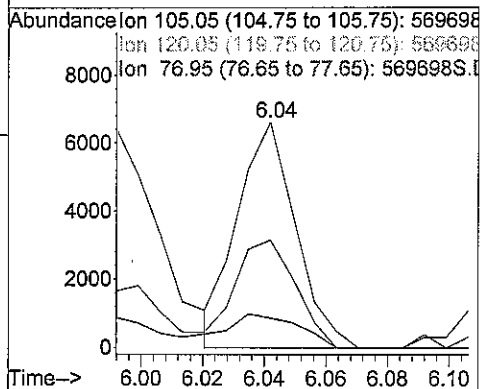
Ion	Ratio	Lower	Upper
105	100		
120	51.8	45.1	67.7
77	19.4	12.2	18.4#

#23
1,2,4-Trimethylbenzene
Concen: 0.08 ug m
RT: 6.26 min   Scan# 865
Delta R.T.   0.01 min
Lab File: 569698S.D
Acq: 27 Jun 2008   11:10 pm

Tgt Ion:105 Resp: 24543

Ion	Ratio	Lower	Upper
105	100		
120	43.8	42.9	64.3
77	13.5	11.9	17.9

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#27
Undecane
Concen: 0.03 ug m
RT: 7.04 min   Scan# 974
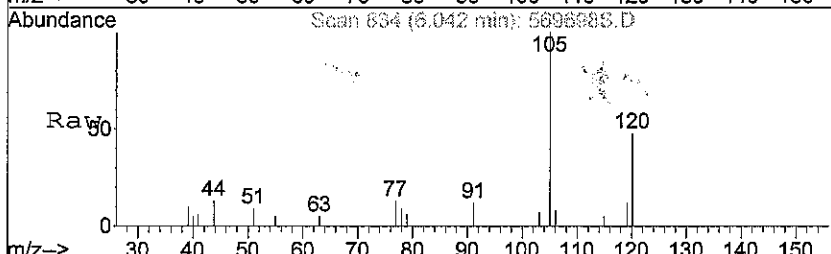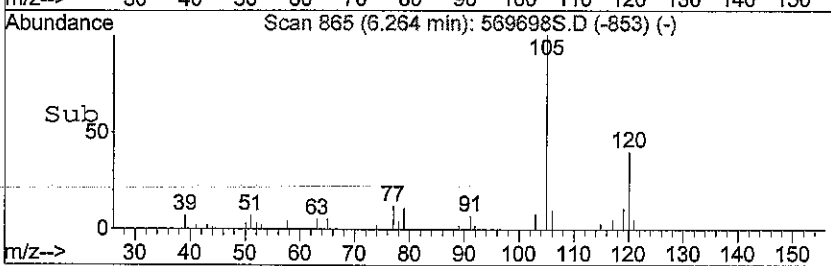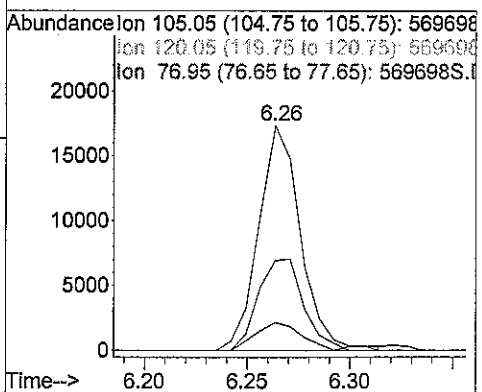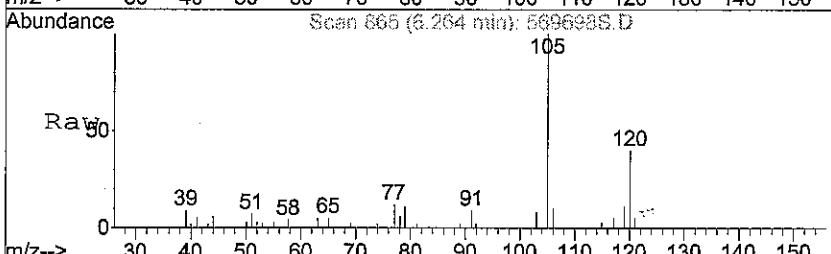Delta R.T.   0.01 min
Lab File: 569698S.D
Acq: 27 Jun 2008 11:10 pm

Tgt Ion: 57 Resp: 4723

Ion	Ratio	Lower	Upper
57	100		
43	43.0	66.6	100.0#
71	12.3	44.7	67.1#

Abundance Ion 57.00 (56.70 to 57.70): 569698S.I
Ion 43.00 (42.70 to 43.70): 569698S.I
Ion 71.00 (70.70 to 71.70): 569698S.I

#28
Naphthalene
Concen: 0.70 ug m
RT: 7.84 min   Scan# 1086
Delta R.T.   -0.00 min
Lab File: 569698S.D
Acq: 27 Jun 2008 11:10 pm

Tgt Ion:128 Resp: 320710

Ion	Ratio	Lower	Upper
128	100		
102	9.0	10.1	15.1#
127	12.5	14.2	21.4#

Abundance Ion 127.95 (127.65 to 128.65): 569698
Ion 101.95 (101.65 to 102.65): 569698
Ion 127.00 (126.70 to 127.70): 569698

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Top panel (Scan 1167 / Compound #29):

Scan 1167 (8.424 min): 20SVOC.D (-1160) (-)

Abundance — Res

m/z--> 43, 57, 71, 85, 99, 112, 126, 140, 154, 169, 184

Scan 1166 (8.416 min): 569698S.D

Abundance — Raw

133, 41, 55, 67, 77, 91, 105, 115, 148, 160

Scan 1166 (8.416 min): 569698S.D (-1155) (-)

Abundance — Sub

133, 43, 57, 73, 85, 104, 116, 148, 159

```
#29
Tridecane
Concen:      0.01 ug m
RT: 8.42 min   Scan# 1166
Delta R.T.    -0.00 min
Lab File:     569698S.D
Acq: 27 Jun 2008  11:10 pm

Tgt Ion: 57  Resp:      1889
Ion   Ratio   Lower   Upper
 57   100
 43   77.8    61.8    92.8
 71   64.1    54.4    81.6
```
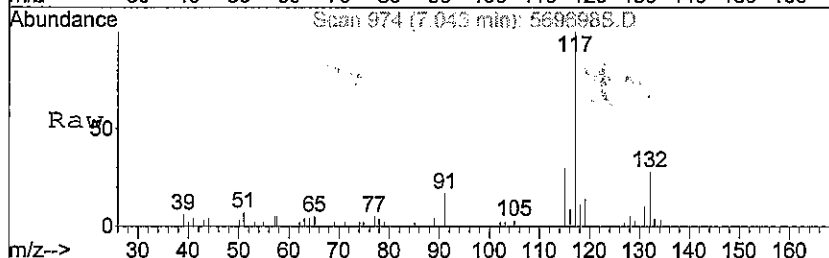
Abundance Ion 57.00 (56.70 to 57.70): 569698S.D
Ion 43.10 (42.80 to 43.90): 569698S.D
Ion 71.00 (70.70 to 71.70): 569698S.D

8.42

Time--> 8.36 8.38 8.40 8.42 8.44

Bottom panel (Scan 1192 / Compound #30):

Scan 1192 (8.603 min): 20SVOC.D (-1179) (-)

Abundance — Res

142, 115, 39, 50, 63, 75, 89, 98, 126, 160

Scan 1191 (8.595 min): 569698S.D

Abundance — Raw

142, 115, 39, 57, 71, 79, 91, 105, 123, 133, 159, 176

Scan 1191 (8.595 min): 569698S.D (-1181) (-)

Abundance — Sub

142, 115, 39, 57, 71, 79, 89, 98, 123, 133, 159, 177
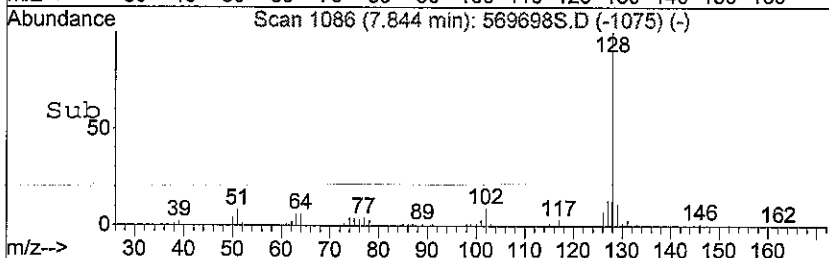
```
#30
2-Methyl naphthalene
Concen:      0.17 ug m
RT: 8.59 min   Scan# 1191
Delta R.T.    -0.01 min
Lab File:     569698S.D
Acq: 27 Jun 2008  11:10 pm

Tgt Ion:142  Resp:     59357
Ion   Ratio   Lower   Upper
142   100
141   81.8    69.2    103.8
115   31.0    29.8    44.8
```

Abundance Ion 141.95 (141.65 to 142.65): 569698S
Ion 140.95 (140.65 to 141.65): 569698S
Ion 114.95 (114.65 to 115.65): 569698S

8.59

Time--> 8.50 8.55 8.60 8.65

#31
Acenaphthylene
Concen: 0.05 ug m
RT: 9.60 min   Scan# 1331
Delta R.T.   -0.01 min
Lab File: 569698S.D
Acq: 27 Jun 2008 11:10 pm

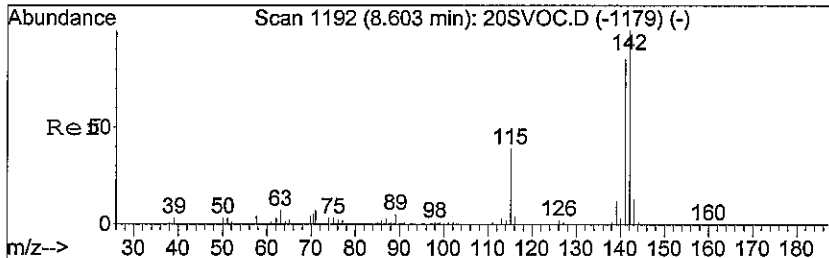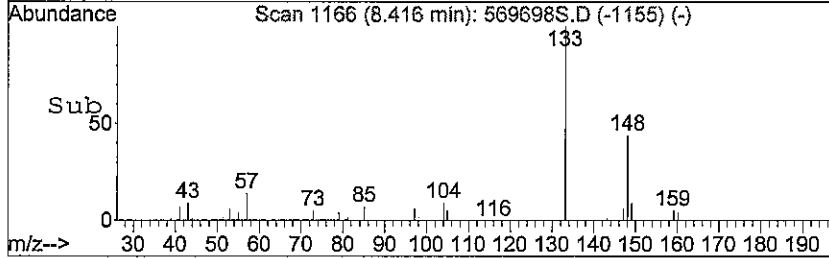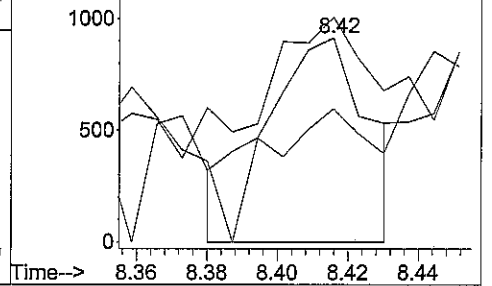| Tgt Ion:152	Resp:		32206
Ion	Ratio	Lower	Upper
152	100		
76	24.8	12.6	18.8#
151	23.3	21.7	32.5

#32
Pentadecane
Concen: 0.02 ug m
RT: 9.62 min   Scan# 1334
Delta R.T.   -0.00 min
Lab File: 569698S.D
Acq: 27 Jun 2008 11:10 pm

Tgt Ion: 57	Resp:		3600
Ion	Ratio	Lower	Upper
57	100		
43	15.8	57.7	86.5#
71	30.1	58.2	87.2#

#33

Acenaphthene
Concen: 6.66 ug m
RT: 9.78 min   Scan# 1357
Delta R.T.   -0.01 min
Lab File: 569698S.D
Acq: 27 Jun 2008 11:10 pm

Tgt Ion:153 Resp: 2343966

Ion	Ratio	Lower	Upper
153	100		
154	95.1	78.6	118.0
152	46.5	42.4	63.6

#34

Fluorene
Concen: 0.47 ug m
RT: 10.35 min   Scan# 1437
Delta R.T.   -0.01 min
Lab File: 569698S.D
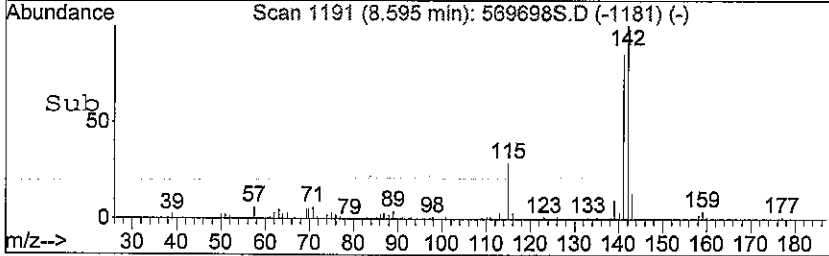Acq: 27 Jun 2008 11:10 pm

Tgt Ion:166 Resp: 201403

Ion	Ratio	Lower	Upper
166	100		
165	88.7	73.4	110.2
82	29.2	13.8	20.8#

#35
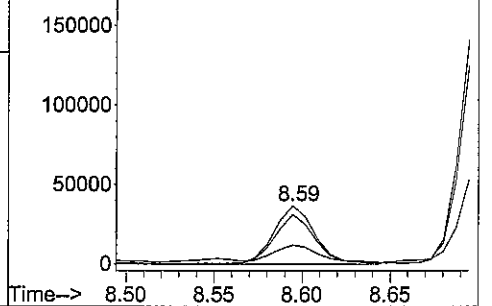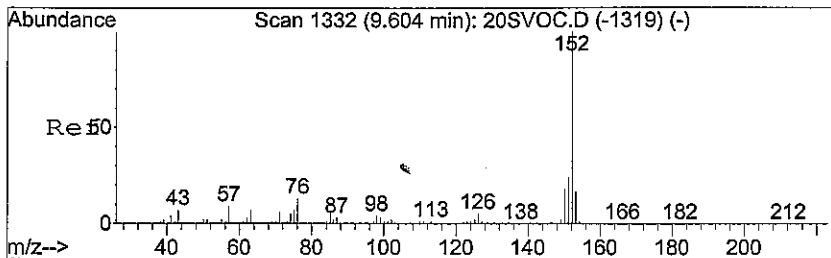Phenanthrene
Concen: 0.24 ug m
RT: 11.43 min Scan# 1587
Delta R.T. -0.01 min
Lab File: 569698S.D
Acq: 27 Jun 2008 11:10 pm

Tgt Ion:178 Resp: 101976

Ion	Ratio	Lower	Upper
178	100		
152	9.9	7.0	10.6
179	19.3	12.9	19.3

#36
Anthracene
Concen: 0.51 ug m
RT: 11.48 min Scan# 1595
Delta R.T. -0.02 min
Lab File: 569698S.D
Acq: 27 Jun 2008 11:10 pm

Tgt Ion:178 Resp: 217773

Ion	Ratio	Lower	Upper
178	100		
152	7.8	6.2	9.4
179	13.6	12.1	18.1

#37
Fluoranthene
Concen: 0.57 ug m
RT: 12.74 min   Scan# 1771
Delta R.T.   -0.01 min
Lab File: 569698S.D
Acq: 27 Jun 2008   11:10 pm

Tgt Ion:202 Resp: 241573

Ion	Ratio	Lower	Upper
202	100		
101	12.7	10.0	15.0
203	16.6	13.8	20.6

Scan 2608 (13.850 min): PAH.D (-)
Scan 1771 (12.742 min): 569698S.D
Scan 1771 (12.742 min): 569698S.D (-1762) (-)

Abundance Ion 202.00 (201.70 to 202.70): 569698
Ion 101.05 (100.75 to 101.75): 569698
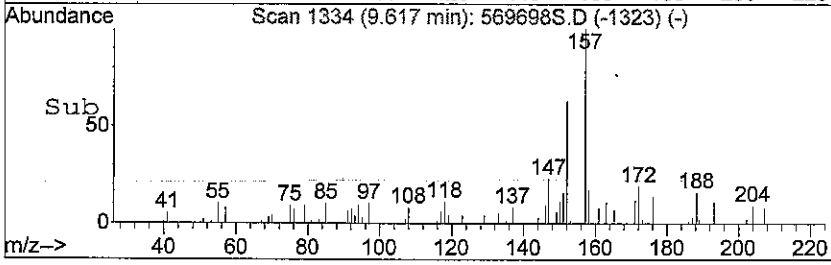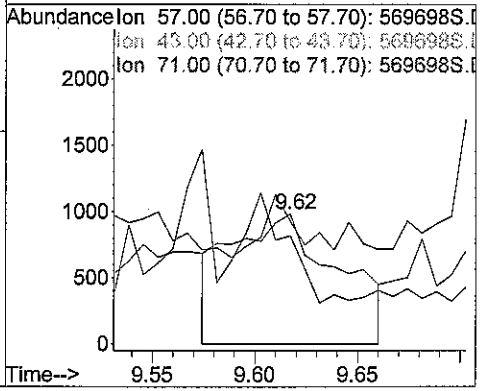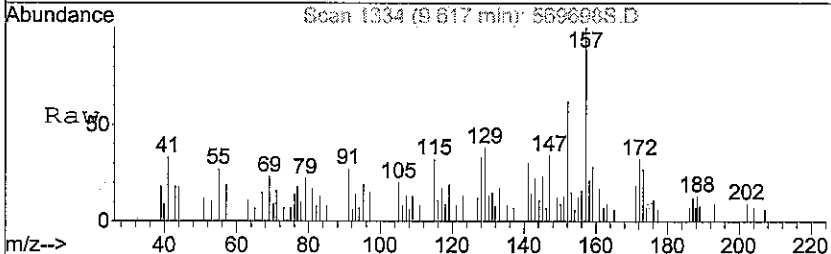Ion 203.00 (202.70 to 203.70): 569698

#38
Pyrene
Concen: 0.40 ug m
RT: 13.00 min   Scan# 1807
Delta R.T.   -0.02 min
Lab File: 569698S.D
Acq: 27 Jun 2008   11:10 pm

Tgt Ion:202 Resp: 168924

Ion	Ratio	Lower	Upper
202	100		
101	16.6	12.5	18.7
203	19.0	12.5	18.7#

Scan 2684 (14.134 min): PAH.D (-)
Scan 1807 (12.999 min): 569698S.D
Scan 1807 (12.999 min): 569698S.D (-1799) (-)

Abundance Ion 202.00 (201.70 to 202.70): 569698
Ion 101.05 (100.75 to 101.75): 569698
Ion 203.00 (202.70 to 203.70): 569698

```
               Quantitation Report      (QT Reviewed)

Data File : C:\MSDCHEM\#8\74768EJF\569699S.D          Vial: 46
Acq On    : 28 Jun 2008    7:05 am                   Operator: DC/DD
Sample    :                                          Inst    : Instrumen
Misc      :                                          Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:54:00 2008          Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8

  Internal Standards              R.T. QIon  Response  Conc Units Dev(Min)
-------------------------------------------------------------------------

Target Compounds                                                    Qvalue
   1) Methyl t-butyl ether        2.30   73      0     N.D.
   2) 1,1-Dichloroethene          2.10   61      0     N.D.
   3) trans-1,2-Dichloroethene    2.30   61      0     N.D.
   4) 1,1-Dichloroethane          2.37   63      0     N.D.
   5) cis-1,2-Dichloroethene      2.52   61      0     N.D.
   6) Chloroform                  2.64   83      0     N.D.
   7) 1,1,1-Trichloroethane       2.79   97      0     N.D.
   8) 1,2-Dichloroethane          2.87   62      0     N.D.
   9) Benzene                     2.92   78      0     N.D.
  10) Carbon tetrachloride        2.92  117      0     N.D.
  11) Trichloroethene             3.28   95      0     N.D.
  12) 1,1,2- Trichloroethane      4.13   97      0     N.D.
  13) Toluene                     3.98   91      0     N.D.
  14) Octane                      4.29   43      0     N.D.
  15) Tetrachloroethene           4.40  166      0     N.D.
  16) Chlorobenzene               4.86  112      0     N.D.
  17) 1,1,1,2- Tetrachloroethane  4.93  131      0     N.D.
  18) Ethylbenzene                4.99   91      0     N.D.
  19) m,p-Xylene                  5.08   91      0     N.D.
  20) o-Xylene                    5.32   91      0     N.D.
  21) 1,1,2,2-Tetrachloroethane   5.60   83      0     N.D.
  22) 1,3,5-Trimethylbenzene      6.03  105      0     N.D.
  23) 1,2,4-Trimethylbenzene      6.26  105      0     N.D.
  24) 1,3-Dichlorobenzene         6.39  146      0     N.D.
  25) 1,4-Dichlorobenzene         6.47  146      0     N.D.
  26) 1,2-Dichlorobenzene         6.63  146      0     N.D.
  27) Undecane                    7.03   57      0     N.D.
  28) Naphthalene                 7.84  128      0     N.D.
  29) Tridecane                   8.42   57      0     N.D.
  30) 2-Methyl naphthalene        8.60  142      0     N.D.
  31) Acenaphthylene              9.60  152      0     N.D.
  32) Pentadecane                 9.62   57      0     N.D.
  33) Acenaphthene                9.79  153      0     N.D.
  34) Fluorene                   10.36  166      0     N.D.
  35) Phenanthrene               11.44  178      0     N.D.
  36) Anthracene                 11.50  178      0     N.D.
  37) Fluoranthene               12.76  202      0     N.D.
  38) Pyrene                     13.02  202      0     N.D.



-------------------------------------------------------------------------
(#) = qualifier out of range (m) = manual integration (+) = signals summed
569699S.D  A4-8.M      Wed Jul 02 10:37:05 2008      RPT1        Page 1
```

Data File : C:\MSDCHEM\#8\74768EJF\569699S.D   Vial: 46
Acq On   : 28 Jun 2008   7:05 am   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:54 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update   : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

```
Data File : C:\MSDCHEM\#8\74768EJF\569700S.D          Vial: 28
Acq On    : 27 Jun 2008  10:42 pm                     Operator: DC/DD
Sample    :                                           Inst    : Instrumen
Misc      :                                           Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:54:00 2008          Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8
```

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
1) Methyl t-butyl ether	2.30	73	0	N.D.		
2) 1,1-Dichloroethene	2.10	61	0	N.D.		
3) trans-1,2-Dichloroethene	2.30	61	0	N.D.		
4) 1,1-Dichloroethane	2.37	63	0	N.D.		
5) cis-1,2-Dichloroethene	2.52	61	0	N.D.		
6) Chloroform	2.64	83	0	N.D.		
7) 1,1,1-Trichloroethane	2.79	97	0	N.D.		
8) 1,2-Dichloroethane	2.87	62	0	N.D.		
9) Benzene	2.92	78	0	N.D.		
10) Carbon tetrachloride	2.92	117	0	N.D.		
11) Trichloroethene	3.28	95	0	N.D.		
12) 1,1,2- Trichloroethane	4.13	97	0	N.D.		
13) Toluene	3.98	91	0	N.D.		
14) Octane	4.29	43	0	N.D.		
15) Tetrachloroethene	4.40	166	0	N.D.		
16) Chlorobenzene	4.86	112	0	N.D.		
17) 1,1,1,2- Tetrachloroethane	4.93	131	0	N.D.		
18) Ethylbenzene	4.99	91	0	N.D.		
19) m,p-Xylene	5.08	91	0	N.D.		
20) o-Xylene	5.32	91	0	N.D.		
21) 1,1,2,2-Tetrachloroethane	5.60	83	0	N.D.		
22) 1,3,5-Trimethylbenzene	6.03	105	0	N.D.		
23) 1,2,4-Trimethylbenzene	6.26	105	0	N.D.		
24) 1,3-Dichlorobenzene	6.39	146	0	N.D.		
25) 1,4-Dichlorobenzene	6.47	146	0	N.D.		
26) 1,2-Dichlorobenzene	6.63	146	0	N.D.		
27) Undecane	7.03	57	0	N.D.		
28) Naphthalene	7.84	128	0	N.D.		
29) Tridecane	8.42	57	0	N.D.		
30) 2-Methyl naphthalene	8.60	142	0	N.D.		
31) Acenaphthylene	9.60	152	0	N.D.		
32) Pentadecane	9.59	57	640m	0.00	ug	#
33) Acenaphthene	9.79	153	0	N.D.		
34) Fluorene	10.36	166	0	N.D.		
35) Phenanthrene	11.44	178	0	N.D.		
36) Anthracene	11.50	178	0	N.D.		
37) Fluoranthene	12.76	202	0	N.D.		
38) Pyrene	13.02	202	0	N.D.		

Data File : C:\MSDCHEM\#8\74768EJF\569700S.D   Vial: 28
Acq On   : 27 Jun 2008 10:42 pm   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:54 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

Scan 1335 (9.625 min): 20SVOC.D (-1327) (-)

Abundance

Res 50

43 57 71 85 99 113 127 140 152 169 183 197 212

m/z--> 40 60 80 100 120 140 160 180 200 220

Abundance   Scan 1330 (9.589 min): 569700S.D

Raw 50

44 57 71

m/z--> 40 60 80 100 120 140 160 180 200 220

Abundance   Scan 1330 (9.589 min): 569700S.D (-1323) (-)

Sub 50

43 57 71

m/z--> 40 60 80 100 120 140 160 180 200 220

#32
Pentadecane
Concen: 0.00 ug m
RT: 9.59 min   Scan# 1330
Delta R.T.   -0.03 min
Lab File: 569700S.D
Acq: 27 Jun 2008   10:42 pm

Tgt Ion: 57	Resp:		640
Ion	Ratio	Lower	Upper
57	100		
43	81.7	57.7	86.5
71	43.3	58.2	87.2#

Abundance Ion 57.00 (56.70 to 57.70): 569700S.D
Ion 43.00 (42.70 to 43.70): 569700S.D
Ion 71.00 (70.70 to 71.70): 569700S.D

600

400

200

0

9.59

Time--> 9.56 9.58 9.60 9.62

Trip Blanks
Quantification Reports and Mass Spectra
Production Order #13674768

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                    Quantitation Report      (QT Reviewed)

Data File : C:\MSDCHEM\#8\74768EJF\569701T.D          Vial: 26
Acq On    : 27 Jun 2008   9:46 pm                     Operator: DC/DD
Sample    :                                           Inst    : Instrumen
Misc      :                                           Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:54:00 2008          Quant Results File: A4-8.RES

Quant Method : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title        : Gore Expanded Target VOCs/SVOCs
Last Update  : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration
DataAcq Meth : VCGS3-8

  Internal Standards              R.T. QIon  Response  Conc Units Dev(Min)
  -----------------------------------------------------------------------


Target Compounds                                                 Qvalue
    1) Methyl t-butyl ether      2.30   73       0     N.D.
    2) 1,1-Dichloroethene        2.10   61       0     N.D.
    3) trans-1,2-Dichloroethene  2.30   61       0     N.D.
    4) 1,1-Dichloroethane        2.37   63       0     N.D.
    5) cis-1,2-Dichloroethene    2.52   61       0     N.D.
    6) Chloroform                2.64   83       0     N.D.
    7) 1,1,1-Trichloroethane     2.79   97       0     N.D.
    8) 1,2-Dichloroethane        2.87   62       0     N.D.
    9) Benzene                   2.92   78       0     N.D.
   10) Carbon tetrachloride      2.92  117       0     N.D.
   11) Trichloroethene           3.28   95       0     N.D.
   12) 1,1,2- Trichloroethane    4.13   97       0     N.D.
   13) Toluene                   3.98   91       0     N.D.
   14) Octane                    4.29   43       0     N.D.
   15) Tetrachloroethene         4.40  166       0     N.D.
   16) Chlorobenzene             4.86  112       0     N.D.
   17) 1,1,1,2- Tetrachloroethane 4.93 131       0     N.D.
   18) Ethylbenzene              4.99   91       0     N.D.
   19) m,p-Xylene                5.08   91       0     N.D.
   20) o-Xylene                  5.32   91       0     N.D.
   21) 1,1,2,2-Tetrachloroethane 5.60   83       0     N.D.
   22) 1,3,5-Trimethylbenzene    6.03  105       0     N.D.
   23) 1,2,4-Trimethylbenzene    6.26  105       0     N.D.
   24) 1,3-Dichlorobenzene       6.39  146       0     N.D.
   25) 1,4-Dichlorobenzene       6.47  146       0     N.D.
   26) 1,2-Dichlorobenzene       6.63  146       0     N.D.
   27) Undecane                  7.03   57       0     N.D.
   28) Naphthalene               7.84  128       0     N.D.
   29) Tridecane                 8.42   57       0     N.D.
   30) 2-Methyl naphthalene      8.60  142       0     N.D.
   31) Acenaphthylene            9.60  152       0     N.D.
   32) Pentadecane               9.62   57       0     N.D.
   33) Acenaphthene              9.79  153       0     N.D.
   34) Fluorene                 10.36  166       0     N.D.
   35) Phenanthrene             11.44  178       0     N.D.
   36) Anthracene               11.50  178       0     N.D.
   37) Fluoranthene             12.76  202       0     N.D.
   38) Pyrene                   13.02  202       0     N.D.




  -----------------------------------------------------------------------
  (#) = qualifier out of range (m) = manual integration (+) = signals summed
  569701T.D  A4-8.M      Wed Jul 02 10:37:06 2008      RPT1        Page 1
```
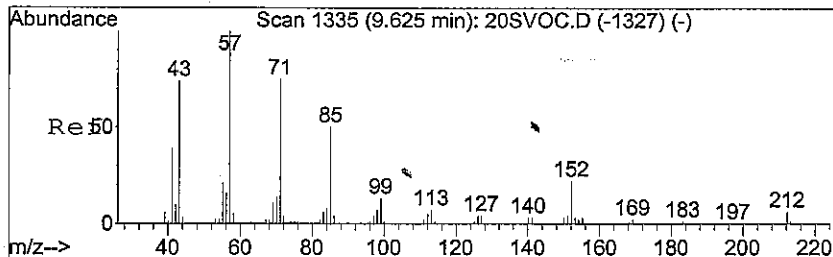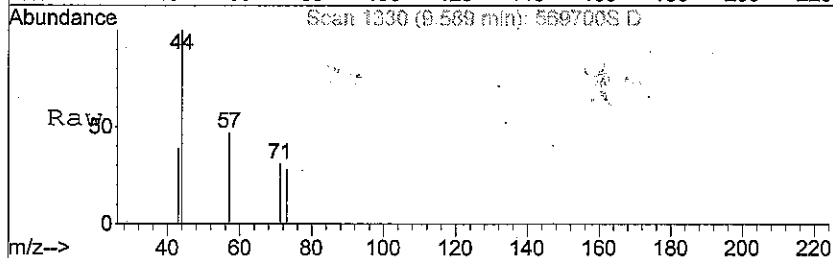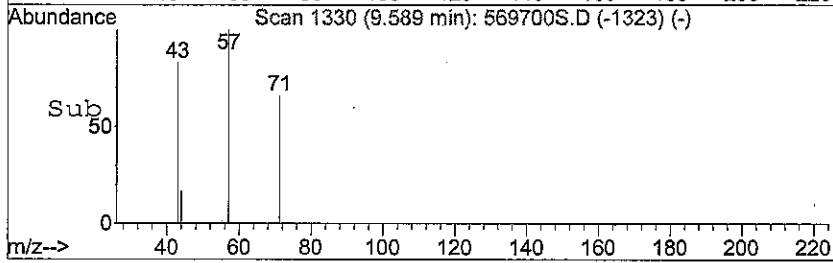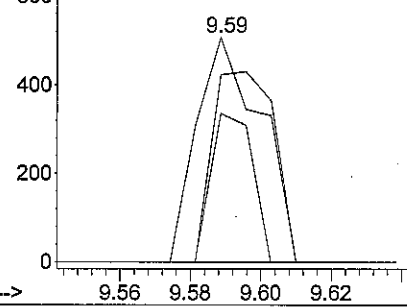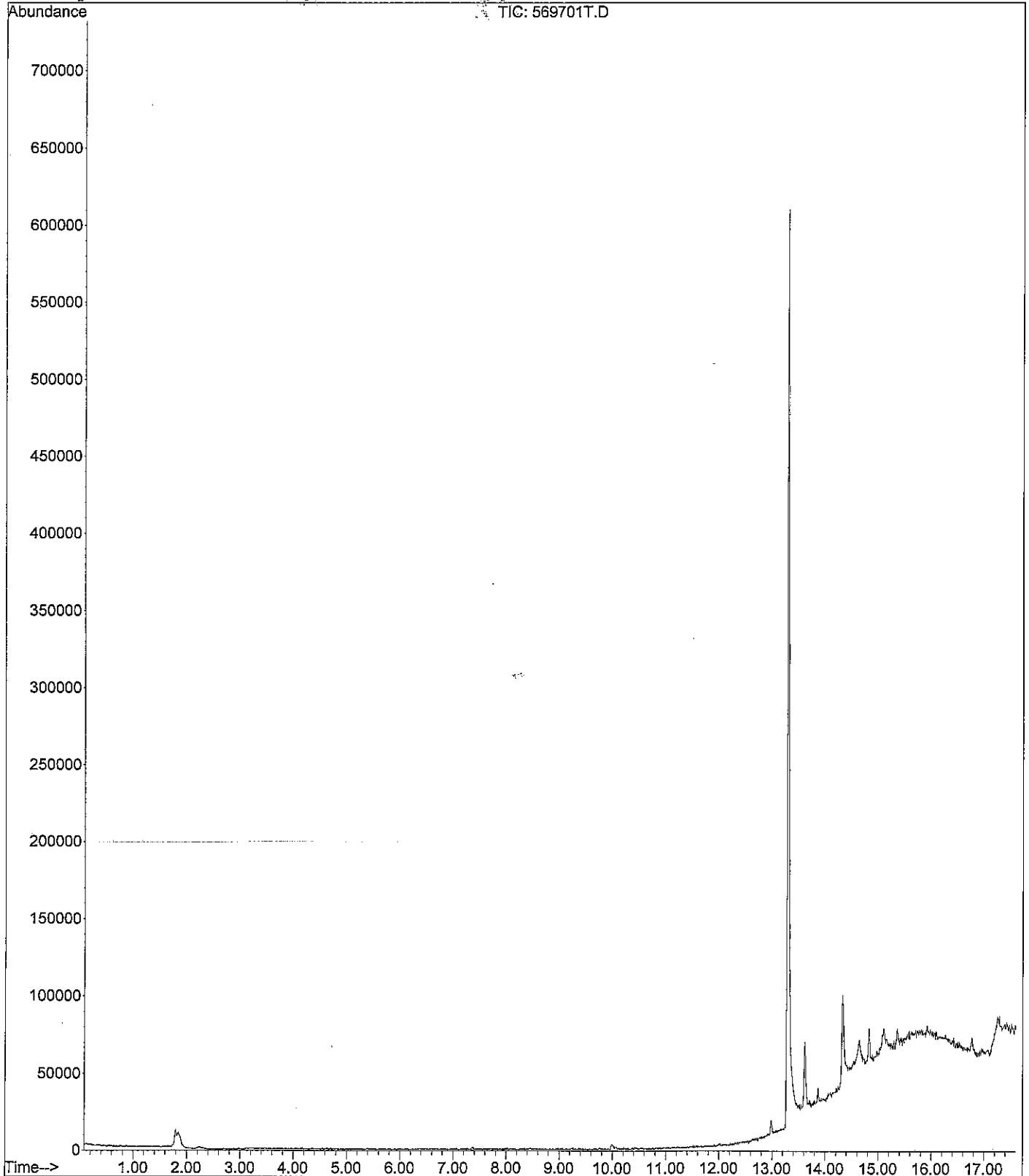
Data File : C:\MSDCHEM\#8\74768EJF\569701T.D   Vial: 26
Acq On   : 27 Jun 2008   9:46 pm   Operator: DC/DD
Sample   :   Inst   : Instrumen
Misc   :   Multiplr: 1.00
MS Integration Params: DDLSCINT.P
Quant Time: Jun 30 14:54 2008   Quant Results File: A4-8.RES

Method   : C:\MSDCHEM\1\METHODS\A4-8.M (RTE Integrator)
Title   : Gore Expanded Target VOCs/SVOCs
Last Update   : Mon Jun 30 14:43:38 2008
Response via : Initial Calibration

Appendix D

Vapor Concentration Calculations

GORE™ SURVEYS ENVIRONMENTAL SITE ASSESSMENT

FOCUSING YOUR REMEDIATION EFFORTS.

Vapor Concentration Calculations

Vapor concentration data from the GORE™ Module, are derived from existing ASTM[1], MDHS[2] and other accepted and approved methods, developed for passive, sorbent-based, diffusion samplers.

> **Air:** $\mu g/m^3$ = Mass/System Factor/[(Sampling Rate)(Exposure Time)

> **Soil Gas:** $\mu g/m^3$ = Air/Soil Effectiveness Factor

Mass = GC/MS measured mass from the Module

System Factor = correction factor for the efficiency of adsorption-desorption specific to the adsorbent, the compound of interest, and the analytical method

Sampling Rate = liters per hour (L/hr) of contaminated air collected by the Module

Soil Effectiveness Factor (E) = corrects for soil porosity and moisture content

Volume of air determinations were made by measuring the uptake rate of the GORE™ Module over time. Modules were placed in a sample chamber equipped with a microbalance. Vapor containing toluene concentrations of 10, 30 and 50 ppm were introduced into the chamber. The mass uptake was recorded through time, and for each concentration was linear with time. The slopes from each linear concentration curve were plotted and modeled. The <u>sampling rate</u> was determined for toluene. In a similar fashion, sampling rates were measured for a number of other petroleum and chlorinated compounds. Using these measured sampling rates and physical properties of these compounds, a model was generated to predict the sampling rates of similar compounds in our analyte list.

The masses of the target compounds are derived by desorbing the Module and analyzing the sample via gas chromatography and mass spectroscopy (GC/MS) following modified EPA methods 8260/8270. The mass is reported in units of micrograms.

System factors account for the efficiency of adsorption and desorption specific to the adsorbent, the compound of interest and the GC/MS method. The system factor is calculated for each target compound.

Soil effectiveness factors (E) is applied to the sampling rate to correct for lower potential flow through the pores of the soil, accounting for physical limitations that can retard the vapor migration process, e.g., low porosity soils and moisture in the vadose zone pore space. The factor is equal to the ratio of the effective diffusion of the compounds to the molecular diffusivity of the compound in air.

REFERENCES
1. ASTM Methods 6306-98, 4597-03, 6246-02, and 5314-93
2. MDHS Methods, 27, 70, and 80
3. Millington, R.J. and J.M. Quirk. 1961. "Permeability of Porous Solids." Trans. Faraday Soc. 57:1200-1207.
4. User's Guide for the Johnson and Ettinger (1991) Model for Subsurface Vapor Intrusion into Buildings. 2000. PN 050240.004. www.epa.gov/sperfund/programs/risk.airmold/johson_ettinger.htm