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NAS CECIL FIELD, FL
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"SITE ASSESSMENT REPORT ADDENDUM FOR BUILDING 81 TANKS 81 A, B AND C NAS CECIL FIELD FL"
5/4/2007
TETRA TECH NUS INC

Document Tracking Number 07JAX0036

May 4, 2007

Project Number 112G00378

Mr. David Grabka
Remedial Project Manager
Technical Review/Federal Facilities
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Reference: CLEAN IV Contract Number N62467-04-D-0055
Contract Task Order Number 0025

Subject: Site Assessment Report Addendum
Building 81, Tanks 81 A, B, and C
Naval Air Station Cecil Field
Jacksonville, Florida

Dear Mr. Grabka:

Tetra Tech NUS, Inc. (TtNUS) is pleased to submit this Site Assessment Report Addendum (SARA) for the referenced Contract Task Order (CTO) for Building 81, Tanks 81 A, B, and C at Naval Air Station (NAS) Cecil Field. This SARA was prepared for the United States Navy, Naval Facilities Engineering Command Southeast (NAVFAC SE) under the Comprehensive Long-Term Environmental Action Navy (CLEAN) IV Contract Number N62467-04-D-0055. This SARA is in response to the Florida Department of Environmental Protection's (FDEP's) approval of TtNUS's recommendation to further delineate the shallow and intermediate aquifers at the site (see Attachment A). The activities were conducted in accordance with Chapter 62-770, Florida Administrative Code (F.A.C). The sampling program was accomplished in general accordance with the Natural Attenuation Monitoring Plan (NAMP) Approval Order signed by FDEP on October 1, 2002 (see Attachment B).

In response to exceedances of contaminants of concern (COCs) in CEF-81-01I during quarterly monitoring events in 2003, FDEP approved TtNUS's recommendation for a supplemental investigation on February 5, 2004. The Supplemental Site Assessment Letter Report indicated that isopropyl benzene was migrating downgradient in the shallow and intermediate zones of the surficial aquifer; however, the deep zone has been delineated. FDEP approved an additional recommendation to further delineate the shallow and intermediate zones of the surficial aquifer in December 2005 (see Attachment A). In response, three shallow monitoring wells (CEF-081-15S, CEF-081-16S, and CEF-081-17S) and three intermediate monitoring wells (CEF-081-18I, CEF-081-19I, and CEF-081-20I) were installed, sampled, and analyzed for volatile organic compounds (VOCs) using United States Environmental Protection Agency (USEPA) Method SW-846 8260B and for polynuclear aromatic hydrocarbons (PAHs) using USEPA Method SW-846 8310P.

This report summarizes the fieldwork and analytical results for the sampling event conducted in November 2006. The work was performed in general accordance with the FDEP Standard Operating Procedures under DEP-SOP-001/01.

FIELD OPERATIONS

Using hollow stem auger drilling techniques, three shallow monitoring wells and one intermediate monitoring well were installed at the site on November 20, 2006, and two additional intermediate monitoring wells were installed at the site on November 21, 2006. The shallow monitoring wells (CEF-081-15S, CEF-081-16S, and CEF-081-17S) were installed to approximately 15 feet below ground surface (bgs), and the intermediate wells (CEF-081-18I, CEF-081-19I, and CEF-081-20I) were installed to approximately 35 feet bgs. The wells were constructed of 2-inch diameter, Schedule 40, flush-joint polyvinyl chloride riser and flush-joint, 0.010-inch, factory-slotted well screen. The screens of the shallow monitoring wells are 10 feet in length, and the screens of the intermediate monitoring wells are 5 feet in length. The monitoring well sheets are included in Attachment C. The approximate locations of the new and existing monitoring wells are shown on Figure 1.

Wells were developed for approximately 24 hours after installation using a peristaltic pump. Groundwater samples were collected from CEF-081-15S, CEF-081-16S, CEF-081-17S, CEF-081-18I, CEF-081-19I, and CEF-081-20I on November 21 and 22, 2006. Low-flow purge sheets and groundwater sample log sheets for the six new monitoring wells are included in Attachment C. The samples were placed on ice and subsequently hand delivered under chain of custody to ENCO Laboratories in Jacksonville, Florida for analysis. The laboratory analyzed the samples for VOCs using USEPA Method SW-846 8260B and for PAHs using USEPA Method SW-846 8310P.

Water level measurements were recorded on January 5, 2007, from each newly installed and existing monitoring well. The depth to water ranged from 7.34 feet below top of casing (btoc) (CEF-81-13S) to 10.05 feet btoc (CEF-81-16S). Historical and current depth-to-water measurements, top-of-casing elevations, and groundwater elevations are presented in Table 1.

RESULTS

Groundwater elevation contours from January 2007 for the shallow zone are shown on Figure 2. Based on the data, the inferred general direction of shallow groundwater flow is to the north, and the horizontal gradient is 0.018. The on-site groundwater horizontal gradient was evaluated by reviewing shallow groundwater elevation data from across the site. Groundwater elevations for the intermediate zone are shown on Figure 3. Based on the data and the flat horizontal gradient, the intermediate zone groundwater flow is indeterminate.

The COCs in the NAMP Approval Order (see Attachment B) include isopropyl benzene; naphthalene; 1,2,4-trimethylbenzene (TMB); and 1,3,5-TMB. The COCs reported by the laboratory for the groundwater samples collected for the November 2006 sampling event were compared to FDEP Groundwater Cleanup Target Levels (GCTLs) and Natural Attenuation Default Source Concentrations (NADSCs). The results and applicable standards are indicated in Table 2, and the results are presented on Figure 4. The laboratory analytical data (see Attachment D) indicate that the sample from monitoring well CEF-81-18I had an isopropyl benzene concentration of 1.00 micrograms per liter (μg/L), and sample from monitoring well CEF-81-19I had an isopropyl benzene concentration of 2.8 μg/L, both exceeding the GCTL of 0.8 μg/L but less than the NADSC of 8 μg/L. All other analytes were either not detected or were detected at estimated concentrations less than their respective GCTLs and NADSCs.

CONCLUSIONS AND RECOMMENDATIONS

The shallow groundwater flow direction in January 2007 is generally to the north, which is consistent with data from the February 2005 event. Groundwater flow in the intermediate zone was indeterminate in January 2007. Groundwater flow in February 2005 was to the west.

The laboratory analytical results from the November 2006 sampling event indicate that concentrations of isopropyl benzene in groundwater exceed the GCTL in monitoring wells CEF-81-18I and CEF-18-19I. No GCTLs were exceeded for the COCs listed by the NAMP Approval Order for the other four newly installed wells (CEF-81-15S, CEF-81-16S, CEF-81-17S, and CEF-81-20I) during this sampling event.

TtNUS recommends continuation of the NAMP program with the following modifications:

- Because CEF-081-18I and CEF-081-19I showed exceedances of isopropyl benzene, the installation of two additional intermediate wells is recommended at the site. Following the installation and development of the new wells, the following wells will be sampled for isopropyl benzene under US EPA Method SW-846 8260B:
    - Shallow monitoring wells CEF-081-08SR; CEF-081-09SR; CEF-081-13S, CEF-081-14S, CEF-081-15S, CEF-081-16S, and CEF-081-17S
    - Already existing intermediate monitoring wells: CEF-081-01I, CEF-081-18I, CEF-081-19, AND CEF-081-20I)
    - The newly installed intermediate wells, CEF-081-21I and CEF-081-22I

If you have any questions regarding this submittal, please feel free to contact me by phone at (904) 730-4669, extension 213, or via e-mail at Mark.Peterson@ttnus.com or contact Kara by phone at (904) 730-4669, extension 214, or via e-mail at Kara.Wimble@ttnus.com.

Sincerely,

Kara F. Wimble
Project Scientist

Mark. A. Peterson, P.G.
Operational Manager

MAP/kw

Attachments (10)

c: Mark Davidson, NAVFAV SE (CD only)
Mike Halil, CH2M Hill (CD only)
Mark Speranza, TtNUS (letter only)
Mark Jonnet, TtNUS (Cecil DMS) (CD)
Joe Logan, TtNUS
Rob Simcik, TtNUS (Bookcase File)
Mark Perry, TtNUS (unbound and CD)
Debbie Humbert, TtNUS (letter only)
Julie Johnson, TtNUS (Information Repository) (CD)
CTO 0025 Project File

CERTIFICATION

The information contained herein is based on the geologic investigation and associated information detailed in the text and appended to this report. If conditions are determined to exist that differ from those described, the undersigned geologist should be notified to evaluate the affects of any additional information on the information described in this report. This Site Assessment Report Addendum was developed for Tanks 81 A, B, and C at Naval Air Station Cecil Field, Jacksonville, Florida, and should not be construed to apply to any other site.

_____

May 4, 2007
Mark A. Peterson, P.G.
Florida License Number PG-0001852

TABLES

Table 1
Groundwater Elevation Data

Site Assessment Report Addendum
Building 81, Tanks 81 A, B, and C
Naval Air Station Cecil Field
Jacksonville, Florida

Monitoring Well Identification	Well Depth (ft, btoc)	TOC Elevation (ft above msl)	January 11, 2002		May 23, 2002		January 7, 2003		March 13, 2003		February 18, 2005		January 5, 2007	
			Depth to Water (ft, btoc)	Water Level Elevation (ft above msl)	Depth to Water (ft, btoc)	Water Level Elevation (ft above msl)	Depth to Water (ft, btoc)	Water Level Elevation (ft above msl)	Depth to Water (ft, btoc)	Water Level Elevation (ft above msl)	Depth to Water (ft, btoc)	Water Level Elevation (ft above msl)	Depth to Water (ft, btoc)	Water Level Elevation (ft above msl)
CEF-80-3S	15.12	77.68	4.74	72.94	5.22	72.46	5.07	72.61	3.16	74.52	6.61	71.07	NM	NM
CEF-80-13S	14.90	78.17	4.96	73.21	5.48	72.69	5.51	72.66	3.56	74.61	7.09	71.08	NM	NM
CEF-81-2S	15.00	78.41	NM	NM	6.02	72.39	NM	NM	3.39	75.02	7.34	71.07	9.84	68.57
CEF-81-8SR	12.94	77.61	4.62	72.99	5.06	72.55	5.14	72.47	2.90	74.71	6.57	71.04	8.97	68.64
CEF-81-9S	12.74	77.72	4.73	72.99	5.19	72.53	5.16	72.56	3.08	74.64	6.78	70.94	9.15	68.57
CEF-81-10S	12.99	78.46	5.45	73.01	5.98	72.48	5.68	72.78	4.18	74.28	7.52	70.94	9.83	68.63
CEF-81-11S	12.88	78.47	5.46	73.01	5.97	72.50	5.56	72.91	4.06	74.41	7.48	70.99	9.81	68.66
CEF-81-12S	11.68	77.37	4.37	73.00	4.81	72.56	4.91	72.46	2.42	74.95	6.21	71.16	9.65	67.72
CEF-81-13S	12.14	77.91	4.92	72.99	5.36	72.55	5.27	72.64	3.24	74.67	6.91	71.00	7.34	70.57
CEF-81-14S	13.00	78.30	NI	NI	5.85	72.45	6.13	72.17	3.78	74.52	7.41	70.89	9.79	68.51
CEF-81-1I	29.25	77.73	4.77	72.96	4.77	72.96	5.65	72.08	3.16	74.57	6.79	70.94	9.19	68.54
CEF-P25-1S	12.00	77.57	NM	NM	5.17	72.40	6.00	71.57	2.36	75.21	6.52	71.05	9.03	68.54
CEF-81-2I	30.00	77.42	NI	NI	NI	NI	NI	NI	NI	NI	6.54	70.88	8.94	68.48
CEF-81-3I	30.00	77.78	NI	NI	NI	NI	NI	NI	NI	NI	6.95	70.83	9.34	68.44
CEF-81-4I	30.00	77.54	NI	NI	NI	NI	NI	NI	NI	NI	6.74	70.80	9.09	68.45
CEF-81-5I	30.00	77.84	NI	NI	NI	NI	NI	NI	NI	NI	7.01	70.83	9.33	68.51
CEF-81-1D	55.00	77.77	NI	NI	NI	NI	NI	NI	NI	NI	6.83	70.94	NM	NM
CEF-81-15S	15.00	78.03	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	9.51	68.52
CEF-81-16S	15.00	78.53	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	10.05	68.48
CEF-81-17S	15.00	78.35	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	9.82	68.53
CEF-81-18I	35.00	78.33	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	9.79	68.54
CEF-81-19I	35.00	78.15	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	9.61	68.54
CEF-81-20I	35.00	77.63	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	9.09	68.54

Notes:
msl = mean sea level btoc = below top of casing NI = not installed NM = not measured ft = feet or foot

Table 2
Groundwater Analytical Data

Site Assessment Report Addendum
Building 81, Tanks 81 A, B, and C
Naval Air Station Cecil Field
Jacksonville, Florida

Contaminant of Concern	NADSC/ GCTL[1, 2]	Source Monitoring Well				Perimeter Monitoring Wells					
		CEF-81-09S				CEF-81-01I				CEF-81-08SR	
		12/13/2001	1/8/2003	3/13/2003	2/18/2005	12/13/2001	1/8/2003	3/13/2003	2/18/2005	12/13/2001	1/8/2003
Priority Pollutant Semi-Volatile Organic Compounds (SVOCs) (USEPA Method 8270C) or PAHs (USEPA Method 8310) (µg/L)											
Naphthalene	140/14	12.5	5.5	NA	4.2	4.4 J	**329**	NA	0.98 U	6.0 U	1.0 U
VOCs (USEPA Method 8260B) (µg/L)											
Isopropyl benzene	8/0.8	**6.2**	NA	**4.8**	**2.8**	ND	NA	**11.6**	0.69	ND	NA
Naphthalene [3]	140/14	**27.3**	NA	**65.0**	12 JN	ND	NA	**45.0**	ND	ND	NA
1,2,3-TMB [3]	100/10	ND	NA	NA	ND	ND	NA	NA	ND	ND	NA
1,2,4-TMB	100/10	**79.4**	NA	**32.6**	6.0	ND	NA	5.7	1.0 U	ND	NA
1,3,5-TMB	100/10	**19.0**	NA	8.2	1.0 U	ND	NA	2.0	1.0 U	ND	NA

Contaminant of Concern	NADSC/ GCTL[1, 2]	Perimeter Monitoring Wells									
		CEF-81-08SR		CEF-81-13S				CEF-81-14S			
		3/13/2003	2/18/2005	12/13/2001	1/8/2003	3/13/2003	2/21/2005	5/23/2002	1/8/2003	3/13/2003	2/18/2005
Priority Pollutant SVOCs (USEPA Method 8270C) or PAHs (USEPA Method 8310) (µg/L)											
Naphthalene	140/14	NA	0.98 U	5.5 U	1.0 U	NA	0.96 U	5.0 U	1.1 U	NA	7.8
VOCs (USEPA Method 8260B) (µg/L)											
Isopropyl benzene	8/0.8	0.50 U	0.50 U	ND	NA	0.50 U	0.50 U	ND	NA	0.50 U	**3.3**
Naphthalene [3]	140/14	1.0 U	ND	ND	NA	1.0 U	ND	ND	NA	1.0 U	15
1,2,3-TMB [3]	100/10	NA	ND	ND	NA	NA	ND	ND	NA	NA	ND
1,2,4-TMB	100/10	0.50 U	1.0 U	ND	NA	0.50 U	1.0 U	ND	NA	0.50 U	1.5
1,3,5-TMB	100/10	0.50 U	1.0 U	ND	NA	0.50 U	1.0 U	ND	NA	0.50 U	1.0 U

See notes at end of table.

Table 2
Groundwater Analytical Data

Site Assessment Report Addendum
Building 81, Tanks 81 A, B, and C
Naval Air Station Cecil Field
Jacksonville, Florida

Contaminant of Concern	NADSC/ GCTL[1, 2]	Perimeter Monitoring Wells									
		CEF-81-02I	CEF-81-03I	CEF-81-04I	CEF-81-05I	CEF-81-01D	CEF-81-15S	CEF-81-16S	CEF-81-17S	CEF-81-18I	CEF-81-19I
		2/18/2005	2/18/2005	2/18/2005	2/21/2005	2/18/2005	11/21/2006	11/21/2006	11/21/2006	11/21/2006	11/21/2006
Priority Pollutant SVOCs (USEPA Method 8270C) or PAHs (USEPA Method 8310) (µg/L)											
Naphthalene	140/14	0.95 U	0.97 U	2.2	0.96 U	0.95 U	0.55	0.02 U	0.02 U	0.27	0.65
VOCs (USEPA Method 8260B) (µg/L)											
Isopropyl benzene	8/0.8	0.50 U	0.50 U	**1.7**	0.50 U	0.50 U	0.1 U	0.1 U	0.1 U	**1.2**	**2.8**
Naphthalene [3]	140/14	ND	ND	ND	ND	ND	0.55	0.02 U	0.02 U	0.29	1.01
1,2,3-TMB [3]	100/10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-TMB	100/10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3,5-TMB	100/10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

Contaminant of Concern	NADSC/ GCTL[1, 2]	CEF-81-20I
		11/21/2006
Priority Pollutant SVOCs (µg/L)		
Naphthalene	140/14	0.15
VOCs (USEPA Method 8260B) (µg/L)		
Isopropyl benzene	8/0.8	0.2 J
Naphthalene [3]	140/14	0.07 J
1,2,3-TMB [3]	100/10	ND
1,2,4-TMB	100/10	0.2 U
1,3,5-TMB	100/10	0.2 U

Notes:

[1] GCTLs based on Chapter 62-777, Florida Administrative Code.

[2] NADSC as promulgated in Chapter 62-770.690.

[3] These compounds (listed under VOCs) were analyzed using a library search and are considered tentatively identified compounds (TICs).

N indicates presumptive evidence of a compound.

Bold indicates values exceeding NADSC or GCTL standards.

NADSC = Natural Attenuation Default Source Concentrations

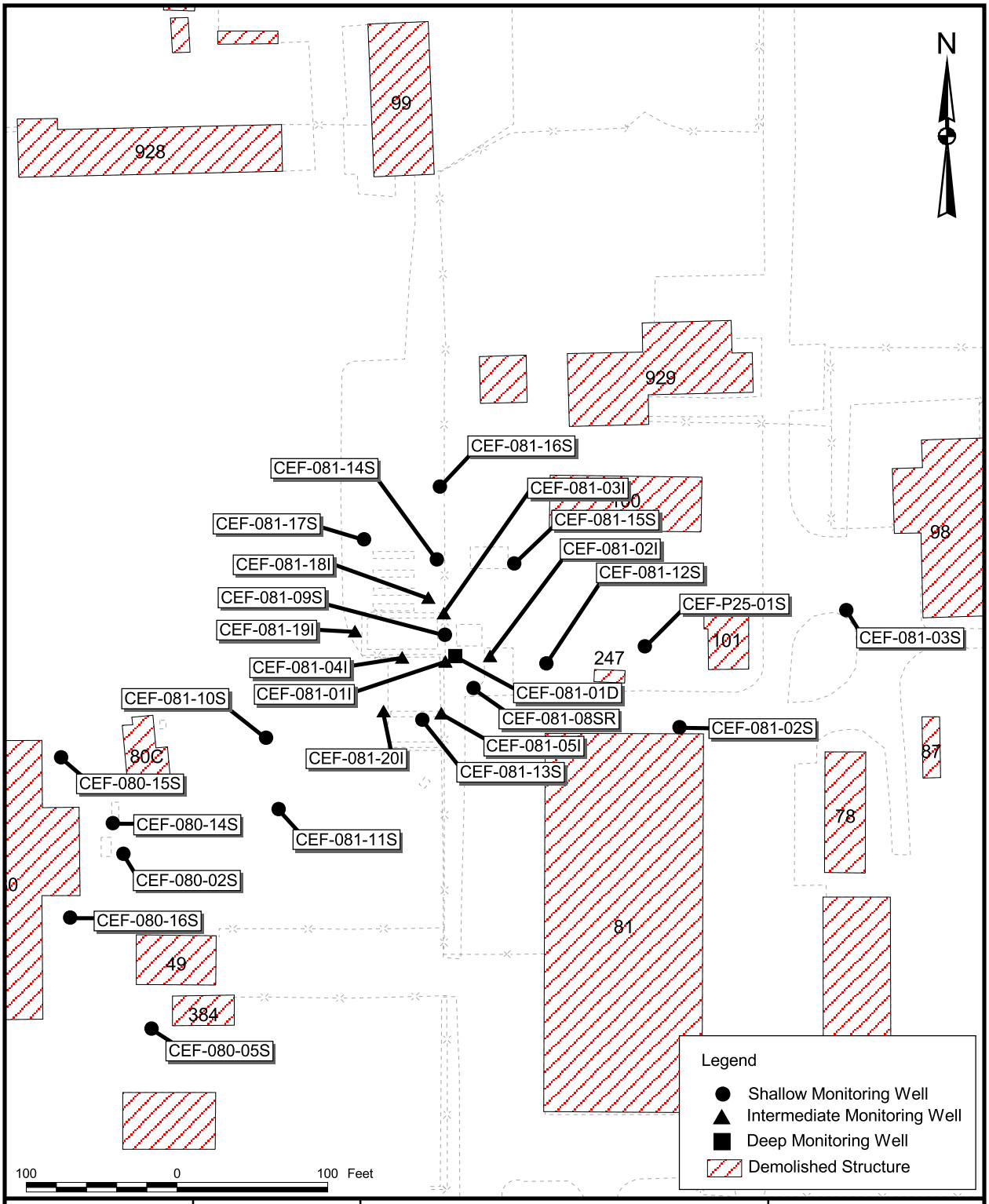
U = not detected at detection limit shown

NA = not analyzed

ND = not detected

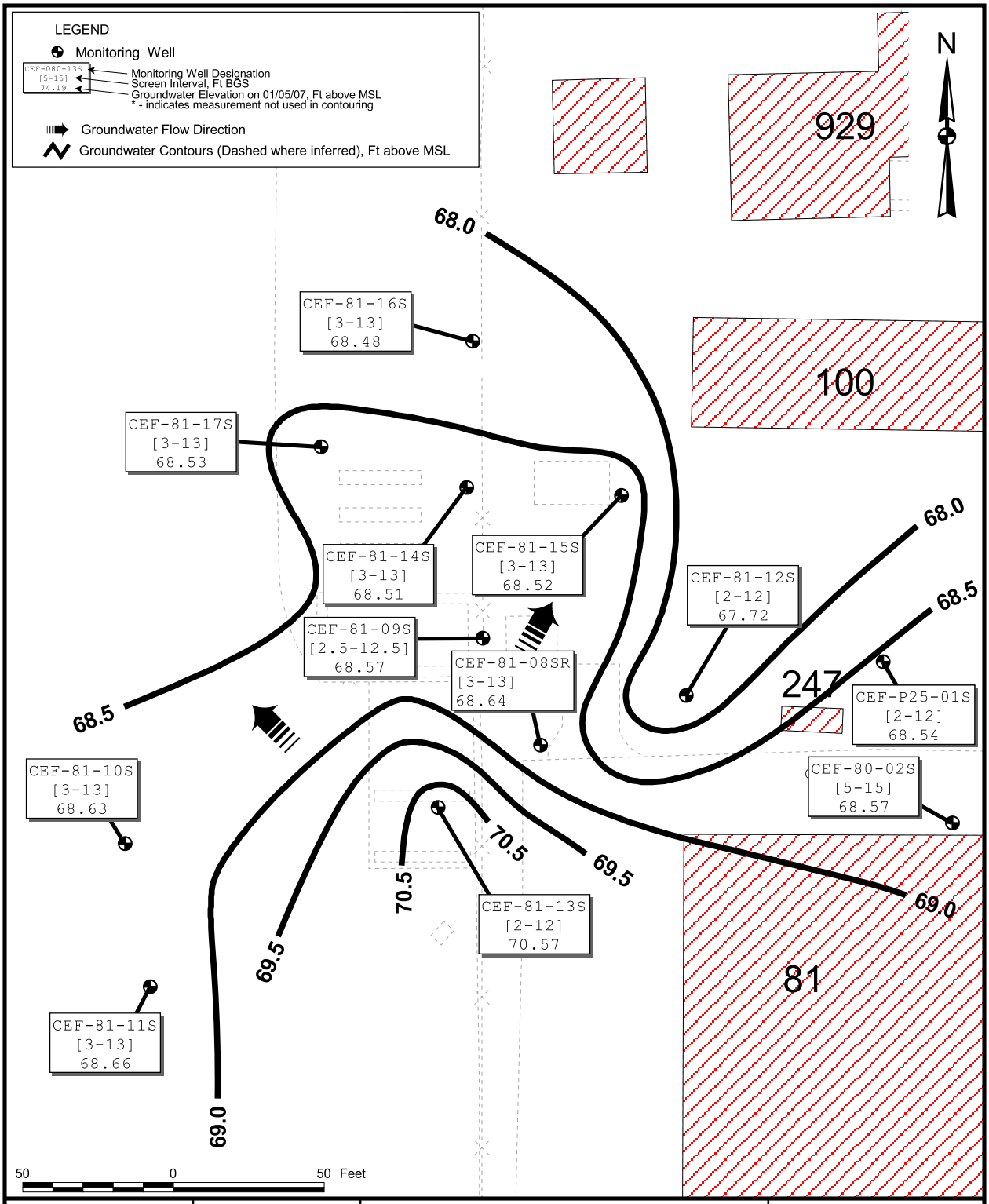
J = estimated value

FIGURES



DRAWN BY MJJ	DATE 06Apr07	MONITORING WELL LOCATION MAP TANKS 81 A, B, & C SITE ASSESSMENT REPORT ADDENDUM NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER 9945
CHECKED BY	DATE		APPROVED BY DATE
COST/SCHEDULE-AREA			APPROVED BY DATE
SCALE AS NOTED			DRAWING NO. FIGURE 1 / REV 0

P:\GIS\NAS_CecilField\Tank_81ABC.apr 03May07 MJJ Layout12



DRAWN BY MJJ	DATE 06Apr07	GROUNDWATER FLOW MAP (01/05/07) SHALLOW ZONE TANKS 81 A, B, & C SITE ASSESSMENT REPORT ADDENDUM NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER 9945
CHECKED BY	DATE		APPROVED BY DATE
COST/SCHEDULE-AREA			APPROVED BY DATE
SCALE AS NOTED			DRAWING NO. FIGURE 2 / REV 0

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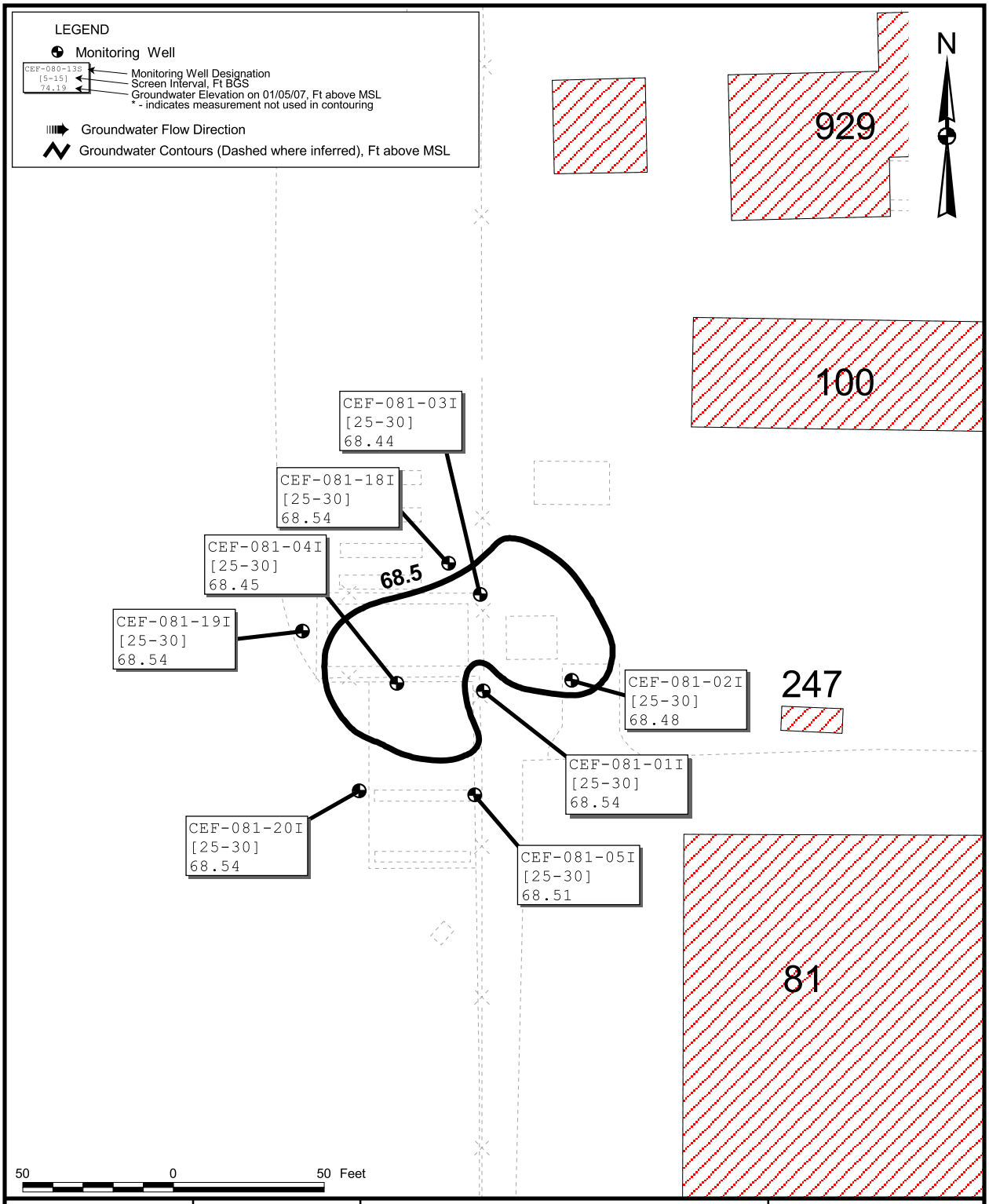

DRAWN BY MJJ	DATE 06Apr07	GROUNDWATER FLOW MAP (01/05/07)	CONTRACT NUMBER 9945
CHECKED BY	DATE	INTERMEDIATE ZONE	APPROVED BY DATE
COST/SCHEDULE-AREA		TANKS 81 A, B, & C	APPROVED BY DATE
SCALE AS NOTED		SITE ASSESSMENT REPORT ADDENDUM	DRAWING NO. FIGURE 3 / REV 0
		NAVAL AIR STATION CECIL FIELD	
		JACKSONVILLE, FLORIDA	

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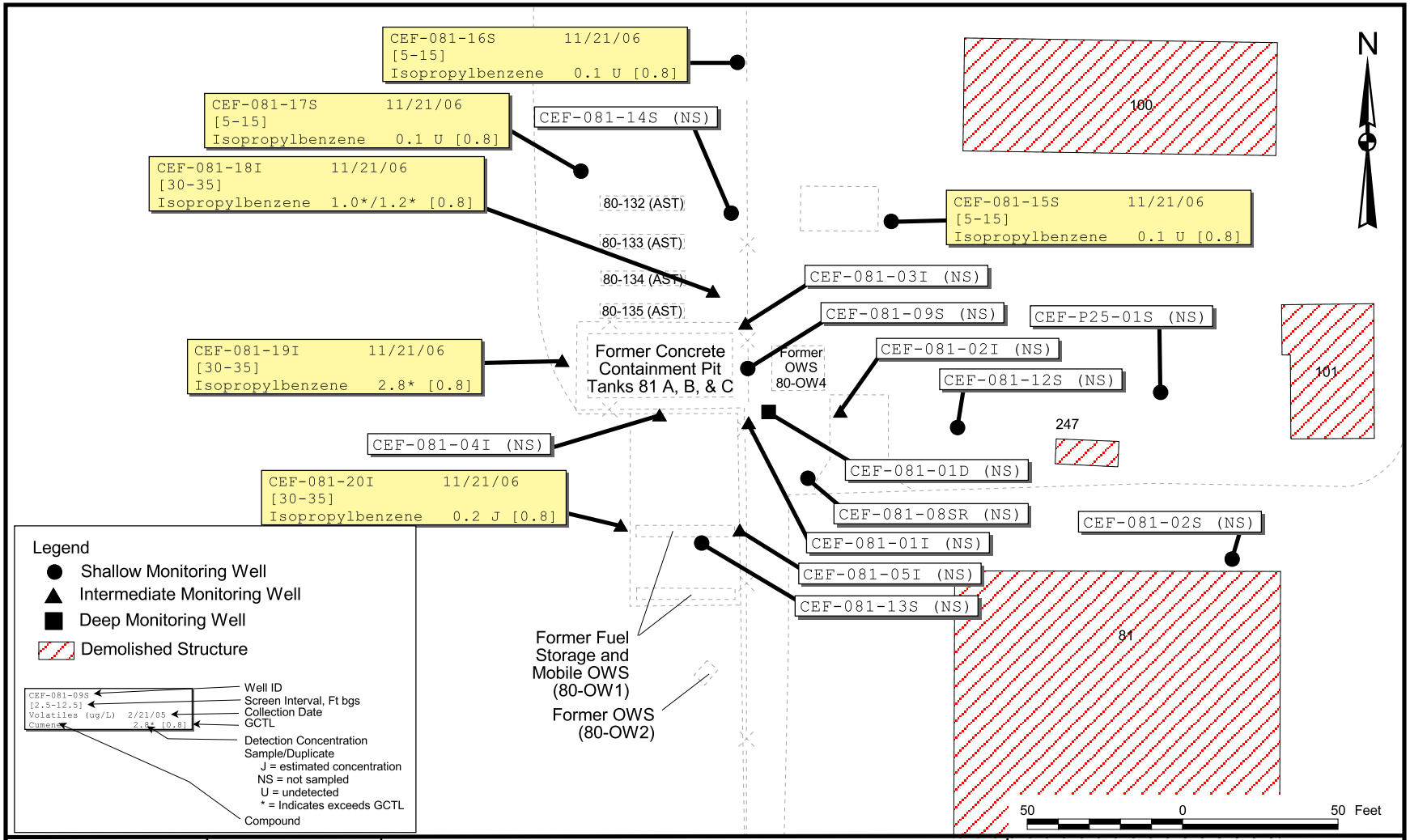

DATE		DRAWN BY	CONTRACT NUMBER
MJJ	10Apr07		9945
CHECKED BY	DATE	APPROVED BY	DATE
COST/SCHEDULE-AREA		APPROVED BY	DATE
SCALE		DRAWING NO.	REV
AS NOTED		FIGURE 4	0

NAVFAC

NOVEMBER 2006 SAMPLING RESULTS

TANKS 81 A, B, & C

SITE ASSESSMENT REPORT ADDENDUM

NAVAL AIR STATION CECIL FIELD

JACKSONVILLE, FLORIDA

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ATTACHMENT A

FDEP APPROVAL LETTER

Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Colleen M. Castille
Secretary

December 1, 2006

BRAC PMO SE
Attn: Mr. Mark Davidson
4130 Faber Place Drive
Suite 202
North Charleston, SC 29405

RE: Work Plan for Supplemental Site Assessment for Tanks 81 A,B, and C, Naval Air Station Cecil Field, Florida

Dear Mr. Davidson:

I have completed my review of the Work Plan for Supplemental Site Assessment for Tanks 81 A,B, and C, Naval Air Station Cecil Field, dated November 2006 (received November 13, 2006). The work described adequately reflects what was approved by the Cecil Field Base Closure Team at the October 4, 2006 meeting.

If you have any concerns regarding this letter, please contact me at (850) 245-8997.

Sincerely,

David P. Grabka, P.G.
Remedial Project Manager

CC: Tim Bahr, FDEP
Doyle Brittain, USEPA, Atlanta
John Flowe, City of Jacksonville
Mark Speranza, TtNUS, Pittsburgh
Mark Peterson, TtNUS, Jacksonville
Mike Fitzsimmons, FDEP, Northeast District

JJC ESN ESN

ATTACHMENT B

FDEP NAMP APPROVAL ORDER

Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

David B. Struhs
Secretary

October 1, 2002

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Commanding Officer
Attn: Mr. Wayne Hansel, Code ES245
Southern Division
Naval Facilities Engineering Command
Post Office Box 190010
North Charleston, South Carolina 29419-9010

Subject: Natural Attenuation Monitoring Plan Approval Order
Building 81, Tanks 81 A, B and C
Naval Air Station Cecil Field
Jacksonville, Duval County

Dear Mr. Hansel:

The Bureau of Waste Cleanup has completed the review of the Site Assessment Report dated July 2002 (received July 22, 2002) for the petroleum product discharge discovered at this site. Pursuant to Rule 62-770.690, Florida Administrative Code (F.A.C.), the Department of Environmental Protection (Department) approves the Natural Attenuation Monitoring Plan. Pursuant to Rule 62-770.690(7), F.A.C., you are required to complete the monitoring program outlined below. The first sampling event should be performed within 60 days of receipt of this Natural Attenuation Monitoring Plan Approval Order (Order). Water-level measurements should be made immediately prior to each sampling event. The analytical results (laboratory report), chain of custody, cumulative summary table of the analytical results, site map(s) illustrating the most recent analytical results, and the water-level elevation information (cumulative summary table and most recent flow interpretation map), must be submitted to the Department within 60 days of sample collection.

The monitoring wells to be sampled, the sampling parameters, and the sampling frequency for the first year are as follows:

Monitoring Wells	Contaminants of Concern	Frequency	Duration
CEF-81-9S, CEF-81-13S, CEF-81-8SR, CEF-81-1I, and CEF-81-14S	SVOCs	Quarterly	One year

The approved Remedial Action by Natural Attenuation monitoring period is one year. The sampling frequency will be evaluated following the submittal of the first annual report to determine whether semiannual or annual sampling may be appropriate. If there are enough data at a later time to estimate the monitoring period necessary to meet the applicable No Further Action criteria set forth in Rule 62-770.680, F.A.C., then that time period should be established and annual "milestone" objectives calculated.

If concentrations of contaminants of concern in any of the designated wells increase above the action levels listed below, the well or wells must be resampled no later than 30 days after the initial positive results are known. If the results of the resampling confirm the initial sampling results, then a proposal as described in Rule 62-770.690(7)(f), F.A.C., must be submitted to the Department.

Contaminated well:

CEF-81-9S: 8 µg/l isopropyl benzene; 200 µg/l naphthalene; 100 µg/l 1,2,4-trimethylbenzene; 100 µg/l 1,3,5-trimethylbenzene

Perimeter wells (temporary points of compliance):

CEF-81-13S, CEF-81-8SR, CEF-81-1S and CEF-81-14S: .8 µg/l isopropyl benzene; 20 µg/l naphthalene; 10 µg/l 1,2,4-trimethylbenzene; 10 µg/l 1,3,5-trimethylbenzene

If the applicable No Further Action criteria in Rule 62-770.680, F.A.C., are met at the end of the monitoring period, a Site Rehabilitation Completion Report, summarizing the monitoring program and containing documentation supporting the opinion that the cleanup objectives have been achieved, must be submitted as required in Rule 62-770.690(8), F.A.C. If the applicable No Further Action criteria in Rule 62-770.680, F.A.C., are not met following one year of monitoring, then a report summarizing the monitoring program must be submitted, including a proposal as described in Rule 62-770.690(7)(g), F.A.C.

Legal Issues

The Department's Order shall become final unless a timely petition for an administrative proceeding (hearing) is filed under Sections 120.569 and 120.57, Florida Statutes (F.S.), within 21 days of receipt of this Order. The procedures for petitioning for a hearing are set forth below.

Persons affected by this Order have the following options:

If you choose to accept the above decision by the Department about the Post-Active Remediation Monitoring Plan you do not have to do anything. This Order is final and effective as of the date on the top of the first page of this Order.

If you disagree with the decision, you may do one of the following:

(1) File a petition for administrative hearing with the Department's Office of General Counsel within 21 days of receipt of this Order; or

(2) File a request for an extension of time to file a petition for hearing with the Department's Office of General Counsel within 21 days of receipt of this Order. Such a request should be made if you wish to meet with the Department in an attempt to informally resolve any disputes without first filing a petition for hearing.

Please be advised that mediation of this decision pursuant to Section 120.573, F.S., is not available.

How to Request an Extension of Time to File a Petition for Hearing

For good cause shown, pursuant to Rule 62-110.106(4), F.A.C., the Department may grant a request for an extension of time to file a petition for hearing. Such a request must be filed (received) in the Department's Office of General Counsel at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, within 21 days of receipt of this Order. Petitioner, if different from Southern Division Naval Facilities Engineering Command, shall mail a copy of the request to Southern Division Naval Facilities Engineering Command at the time of filing. Timely filing a request for an extension of time tolls the time period within which a petition for administrative hearing must be made.

How to File a Petition for Administrative Hearing

A person whose substantial interests are affected by this Order may petition for an administrative hearing under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Department's Office of General Counsel at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, within 21 days of receipt of this Order. Petitioner, if different from Southern Division Naval Facilities Engineering Command, shall mail a copy of the petition to Southern Division Naval Facilities Engineering Command at the time of filing. Failure to file a petition within this time period shall waive the right of anyone who may request an administrative hearing under Sections 120.569 and 120.57, F.S.

Pursuant to Section 120.54(5)(b)4.a., F.S., and Rule 28-106.201, F.A.C., a petition for administrative hearing shall contain the following information:

(a) The name, address, and telephone number of each petitioner, the name, address, and telephone number of the petitioner's representative, if any, the site owner's name and address, if different from the petitioner, the FDEP facility number, and the name and address of the facility;
(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
(c) An explanation of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;
(d) A statement of the material facts disputed by the petitioner, or a statement that there are no disputed facts;
(e) A statement of the ultimate facts alleged, including a statement of the specific facts the petitioner contends warrant reversal or modification of the Department's action or proposed action;
(f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the Department's action or proposed action; and
(g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the Department to take with respect to the Department's action or proposed action.

This Order is final and effective as of the date on the top of the first page of this Order. Timely filing a petition for administrative hearing postpones the date this Order takes effect until the Department issues either a final order pursuant to an administrative hearing or an order responding to supplemental information provided pursuant to meetings with the Department.

Judicial Review

Any party to this Order has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days after this Order is filed with the clerk of the Department (see below).

Questions

Any questions regarding the Department's review of your Site Assessment Report should be directed to David P. Grabka at (850) 921-9991. Questions regarding legal issues should be referred to the Department's Office of General Counsel at (850) 488-9314. Contact with any of

the above does not constitute a petition for administrative hearing or request for an extension of time to file a petition for administrative hearing.

Sincerely,

Douglas A. Jones, Chief
Bureau of Waste Cleanup
Division of Waste Management

DAJ/dpg

cc: Brian Cheary, FDEP Northeast District Office
Paul Calligan, Tetra Tech NUS, Inc., Tampa
Debbie Vaughn-Wright, USEPA Region 4, Atlanta, GA
Scott Glass, Southern Division Naval Facilities Engineering Command, Charleston, SC
File

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant to
§120.52 Florida Statutes, with the
designated Department Clerk, receipt
of which is hereby acknowledged.

Clerk
(or Deputy Clerk)

October 1, 2002
Date

ATTACHMENT C

FIELD FORMS

FIGURE 8-2

SITE-SPECIFIC TRAINING DOCUMENTATION

My signature below indicates that I am aware of the potential hazardous nature of performing remedial investigation activities at NAS Cecil Field, Jacksonville, Florida, and that I have received site-specific training which included the elements presented below:

- Names of designated personnel and alternates responsible for site safety and health
- Safety, health, and other hazards present on site
- Use of personal protective equipment
- Work practices to minimize risks from hazards
- Safe use of engineering controls and equipment
- Medical surveillance requirements
- Signs and symptoms of overexposure
- Contents of the Health and Safety Plan
- Emergency response procedures (evacuation and assembly points)
- Spill response procedures
- Review of contents of relevant Material Safety Data Sheets
- Review of Safe Work Permits
- Emergency response procedures (evacuation and assembly points)
- Associated hazards and restricted areas within the NAS Cecil Field.

I have been given the opportunity to ask questions and that all of my questions have been answered to my satisfaction. The date of my training (introductory, refresher, and supervisory, as applicable) and my medical surveillance requirements are accurate and correct to the best of my knowledge.

Name (Printed and Signature)	Site-Specific Training Date	40-Hour Training (Date)	8-Hour Refresher Training (Date)	8-Hour Supervisory Training (Date)	Medical Exam
TERRY COTTENOIR Terry Cottenoir	11/20/06	10/05	6/06	6/06	10/05
DOUG JURGS [illegible]	11/20/06	10/06	—	—	3/06
TIM WATSON GIOVANNI BORRERO	11/20/06	1/06	—	—	2/06
[illegible]	11/20/06	10/06	—	—	12/04

SAFE WORK PERMIT
MOBILIZATION AND DEMOBILIZATION
NAVAL AIR STATION CECILFIELD,
JACKSONVILLE, FLORIDA

Permit No. 2006112001 Date: 11/20/06 - 11/22/06 Time: From 0700 to 1700

I. **Work limited to the following (description, area, equipment used):** Mob/Demob

II. **Primary Hazards:**: lifting; cuts and lacerations; pinches and compressions; slip, trip and falls; ambient temperature extremes; insect and animal bites; and inclement weather

III. **Field Crew:** TC, DJ, TM, GB

IV. **On-site Inspection conducted** ☒ Yes ☐ No Initials of Inspector TC TtNUS
Equipment Inspection required ☒ Yes ☐ No Initials of Inspector TC TtNUS

V. **Protective equipment required**
Level D ☒ Level B ☐
Level C ☐ Level A ☐

Respiratory equipment required
Yes ☐ Specify on the reverse
No ☒

Modifications/Exceptions:

VI. Chemicals of Concern	Hazard Monitoring	Action Level(s)	Response Measures
None expected during this task			

Primary Route(s) of Exposure/Hazard: NA

(Note to FOL and/or SSO: Each item in Sections VII, VIII, and IX must be checked Yes, No, or NA)

VII. **Additional Safety Equipment/Procedures**

Hard-hat	☐ Yes	☐ No	Hearing Protection (Plugs/Muffs)	☐ Yes	☐ No
Safety Glasses	☐ Yes	☐ No	Safety belt/harness	☐ Yes	☒ No
Chemical/splash goggles	☐ Yes	☒ No	Radio/Cellular Phone	☐ Yes	☐ No
Splash shield	☐ Yes	☒ No	Barricades	☐ Yes	☒ No
Splash suits/coveralls	☐ Yes	☒ No	Gloves (Type – Work)	☐ Yes	☐ No
Impermeable apron	☐ Yes	☒ No	Work/rest regimen	☐ Yes	☐ No
Steel toe work shoes or boots	☒ Yes	☐ No	Chemical resistant boot covers	☐ Yes	☒ No
High visibility vest	☐ Yes	☐ No	Tape up/use insect repellent	☐ Yes	☐ No
First Aid Kit	☐ Yes	☐ No	Fire extinguisher	☐ Yes	☐ No
Safety Shower/Eyewash	☐ Yes	☐ No	Other	☐ Yes	☐ No

Modifications/Exceptions:

VIII. **Site Preparation**

	Yes	No	NA
Utility Locating and Excavation Clearance completed	☐	☐	☐
Vehicle and Foot Traffic Routes Established/Traffic Control Barricades/Signs in Place	☐	☐	☐
Physical Hazards Identified and Isolated (Splash and containment barriers)	☐	☐	☐
Emergency Equipment Staged (Spill control, fire extinguishers, first aid kits, etc).	☐	☐	☐

IX. **Additional Permits required** (Hot work, confined space entry, excavation etc.) ☐ Yes ☒ No
If yes, SSO to complete or contact Health Sciences, Pittsburgh Office (412)921-7090

X. **Special instructions, precautions:** Use safe lifting/carrying techniques. Use additional PPE based on the hazards that are associated with each task. Use work gloves when cutting boxes or handling sharp tools/cutting devices. Safety glasses will be required.

Permit Issued by: 11/20/06 TC

Permit Accepted by: 11/20/06

SAFE WORK PERMIT
DECONTAMINATION
NAVAL AIR STATION CECILFIELD, JACKSONVILLE, FLORIDA

Permit No. 20061120 02 Date: 11/20/06 - 11/22/06 Time: From 0700 to 1700

I. **Work limited to the following (description, area, equipment used):** Decontamination of the sampling and heavy equipment

II. **Primary Hazards:** Chemical exposure including decon fluids; lifting; noise; flying projectiles; vehicle and foot traffic; falling hazards; slip, trip and fall; and inclement weather

III. **Field Crew:** TC, DJ, TM, GB

IV. **On-site Inspection conducted** ☒ Yes ☐ No Initials of Inspector TC TtNUS
Equipment Inspection required ☒ Yes ☐ No Initials of Inspector TC TtNUS

V. **Protective equipment required**
Level D ☒ Level B ☐
Level C ☐ Level A ☐
Modifications/Exceptions:

Respiratory equipment required
Yes ☐ Specify on the reverse
No ☐

VI. Chemicals of Concern	Hazard Monitoring	Action Level(s)	Response Measures
VOCs (BETX)	PID w/ 10.6 eV lamp	sustained readings(> 1 minute) above 10 ppm	evacuate area until readings return to background
SVOC naphthalene			

Primary Route(s) of Exposure/Hazard: absorption

(Note to FOL and/or SSO: Each item in Sections VII, VIII, and IX must be checked Yes, No, or NA)

VII. **Additional Safety Equipment/Procedures**

Hard-Hat	☒ Yes	☐ No	Hearing Protection (Plugs/Muffs)	☒ Yes	☐ No
Safety Glasses	☒ Yes	☐ No	Safety Belt/Harness	☐ Yes	☒ No
Chemical/Splash Goggles	☐ Yes	☒ No	Radio/Cellular Phone	☐ Yes	☐ No
Splash Shield	☒ Yes	☐ No	Barricades	☐ Yes	☒ No
Splash Suits/Coveralls	☐ Yes	☒ No	Gloves (Type – Nitrile)	☒ Yes	☐ No
Impermeable apron	☐ Yes	☐ No	Work/rest Regimen	☐ Yes	☐ No
Steel Toe Work Shoes or Boots	☒ Yes	☐ No	Chemical Resistant Boot Covers	☐ Yes	☒ No
High Visibility Vest	☐ Yes	☒ No	Tape/Insect Repellent	☐ Yes	☐ No
First Aid Kit	☐ Yes	☐ No	Fire Extinguisher	☐ Yes	☐ No
Safety Shower/Eyewash	☐ Yes	☐ No	Other	☐ Yes	☐ No

Modifications/Exceptions:

VIII. **Site Preparation**

	Yes	No	NA
Utility Locating and Excavation Clearance completed	☐	☐	☐
Vehicle and Foot Traffic Routes Established/Traffic Control Barricades/Signs in Place	☐	☐	☐
Physical Hazards Identified and Isolated (Splash and containment barriers)	☐	☐	☐
Emergency Equipment Staged (Spill control, fire extinguishers, first aid kits, etc).	☐	☐	☐

IX. **Additional Permits required** (Hot work, confined space entry, excavation etc.) ☐ Yes ☒ No
If yes, SSO to complete or contact Health Sciences, Pittsburgh Office (412)921-7090

X. **Special instructions, precautions:** Review and follow the instructions on the MSDS for the decontamination fluids. Follow guidance in Table 5-1 for PPE for different decontamination tasks.

Permit Issued by: 11/20/06 TC

Permit Accepted by: 11/20/06 TC GB

EQUIPMENT INSPECTION

COMPANY: ENVIRONMENTAL DRILLING SERVICES **UNIT NO.** DIEDRICH D-120

FREQUENCY: Inspect at the initiation of the project, after repairs, once every 10-day shift.

Inspection Date: 11 / 20 / 06 Time: 0930 Equipment Type: HOLLOW STEM AUGER
(e.g., bulldozer, generator)

	Good	Need Repair	N/A
Tires or tracks	☒	☐	☐
Hoses and belts	☒	☐	☐
Cab, mirrors, safety glass	☒	☐	☐
- Turn signals, lights, brake lights, etc. (front/rear) for equipment approved for highway use?	☒	☐	☐
- Is the equipment equipped with audible back-up alarms and back-up lights?	☒	☐	☐
Horn and gauges	☒	☐	☐
Brake condition (dynamic, park, etc.)	☒	☐	☐
Fire extinguisher (Type/Rating - ABC)	☒	☐	☐
Fluid Levels:			
- Engine oil	☒	☐	☐
- Transmission fluid	☒	☐	☐
- Brake fluid	☒	☐	☐
- Cooling system fluid	☒	☐	☐
- Windshield wipers	☒	☐	☐
- Hydraulic oil	☒	☐	☐
Oil leak/lube	☒	☐	☐
Coupling devices and connectors	☒	☐	☐
Exhaust system	☒	☐	☐
Blade/boom/ripper condition	☒	☐	☐
Access-ways: Frame, hand holds, ladders, walkways (non-slip surfaces), guardrails?	☒	☐	☐
Power cable and/or hoist cable	☒	☐	☐
Steering (standard and emergency)	☒	☐	☐

Safety Guards:

	Yes	No
– Around rotating apparatus (belts, pulleys, sprockets, spindles, drums, flywheels, chains) all points of operations protected from accidental contact?	☒	☐
– Hot pipes and surfaces exposed to accidental contact?	☐	☒
– All emergency shut offs have been identified and communicated to the field crew?	☒	☐
– Have emergency shutoffs been field tested?	☒	☐
– Results? GOOD WORKING CONDITION	☐	☐
– Are any structural members bent, rusted, or otherwise show signs of damage?	☐	☒
– Are fueling cans used with this equipment approved type safety cans?	☒	☐

EQUIPMENT INSPECTION (Continued)

- Have the attachments designed for use (as per manufacturer's recommendation) with this equipment been inspected and are considered suitable for use? ☒ ☐

Portable Power Tools:

- Tools and Equipment in Safe Condition? ☒ ☐
- Saw blades, grinding wheels free from recognizable defects (grinding wheels have been sounded)? ☒ ☐
- Portable electric tools properly grounded? ☒ ☐
- Damage to electrical power cords? ☐ ☒
- Blade guards in place? ☒ ☐
- Components adjusted as per manufacturers recommendation? ☒ ☐

Cleanliness:

- Overall condition (was the decontamination performed prior to arrival on-site considered acceptable)? Yes, good condition
- Where was this equipment used prior to its arrival on site?
- Site Contaminants of concern at the previous site?
- Inside debris (coffee cups, soda cans, tools and equipment) blocking free access to foot controls? No

Operator Qualifications (as applicable for all heavy equipment):

- Does the operator have proper licensing where applicable, (e.g., CDL)? Yes
- Does the operator, understand the equipment's operating instructions? Yes
- Is the operator experienced with this equipment? Yes
- Does the operator have emotional and/or physical limitations which would prevent him/her from performing this task in a safe manner? No
- Is the operator 21 years of age or more? Yes

Identification:

- Is a tagging system available, for positive identification, for tools removed from service?

Additional Inspection Required Prior to Use On-Site

	Yes	No
Does equipment emit noise levels above 90 decibels?	☒	☐
If so, has an 8-hour noise dosimetry test been performed?	☐	☐

- Results of noise dosimetry:
- Defects and repairs needed: NONE
- General Safety Condition: Good
- Operator or mechanic signature: VZ9

Site Safety Officer Signature: Terry Cotten

Approved for Use: ☒ Yes ☐ No

Tetra Tech NUS, Inc.

DAILY ACTIVITIES RECORD

PROJECT NAME:	Tanks 81 ABC - CTO 25	**PROJECT NUMBER:**	112G00378
CLIENT:	~~Cecil Field~~ US NAVY	**LOCATION:**	CECIL FIELD
DATE:	11/20/06	**ARRIVAL TIME:**	0930
Tt NUS PERSONNEL:	T. COTTENOIR	**DEPARTURE TIME:**	1600
CONTRACTOR:	ENVIRONMENTAL DRILLING	**DRILLER:**	D. JURSS

ITEM	QUANTITY ESTIMATE	QUANTITY TODAY	PREVIOUS TOTAL QUANTITY	CUMULATIVE QUANTITY TO DATE
SHALLOW WELL (15' bls)	3	3	—	3
INTERMEDIATE WELLS (35' bls)	3	1	—	1
WELL DEVELOPMENT	6 hrs	4 hrs	—	4 hrs

COMMENTS:

APPROVED BY:

Tt NUS REPRESENTATIVE

DRILLER

DATE: 11/20/06

Tetra Tech NUS, Inc.

DAILY ACTIVITIES RECORD

PROJECT NAME:	Tanks 81 ABC - CTO 25	**PROJECT NUMBER:**	112G00378
CLIENT:	~~Cecil Field~~ US NAVY	**LOCATION:**	CECIL FIELD
DATE:	11/21/06	**ARRIVAL TIME:**	0730
Tt NUS PERSONNEL:	T. COTTENOIR, J. FOSTER	**DEPARTURE TIME:**	1230
CONTRACTOR:	ENVIRONMENTAL DRILLING	**DRILLER:**	D. JURSS

ITEM	QUANTITY ESTIMATE	QUANTITY TODAY	PREVIOUS TOTAL QUANTITY	CUMULATIVE QUANTITY TO DATE
SHALLOW WELLS (15' bls)	3	Ø	3	3
INTERMEDIATE WELLS (35' bls)	3	2	1	3
WELL DEVELOPMENT	6 hrs	2 hrs	4 hrs	6 hrs

COMMENTS:

APPROVED BY:

Tt NUS REPRESENTATIVE

DRILLER

DATE: 11/21/06

WELL NO.: CEF-081-20I

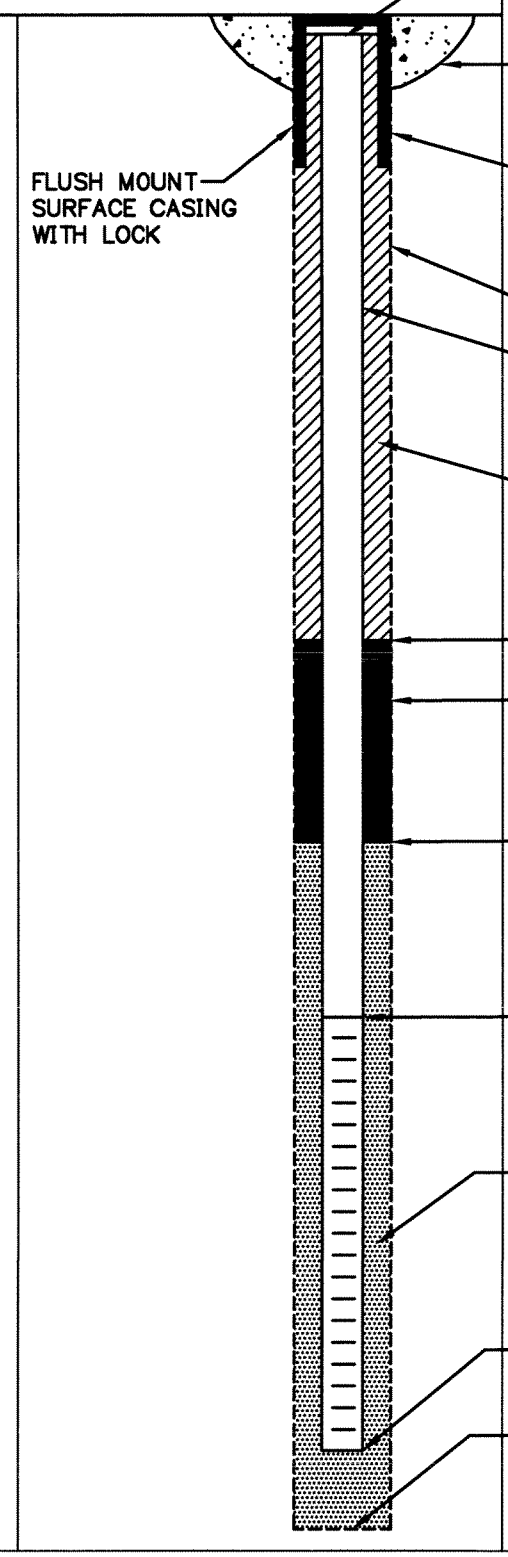
Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT: SITE 81 ABC
PROJECT NO.: 112G00378
DATE BEGUN: 11/21/06
FIELD GEOLOGIST: TERRY COTTENOIR
GROUND ELEVATION: _____

LOCATION: NAS CECIL FIELD
BORING: _____
DATE COMPLETED: _____
DATUM: _____

DRILLER: D. JURSS
DRILLING METHOD: HOLLOW STEM AUGER
DEVELOPMENT METHOD: BAILER



ELEVATION TOP OF RISER: _____

TYPE OF SURFACE SEAL: QUIKRETE CONCRETE MIX

TYPE OF PROTECTIVE CASING: STEEL MAN-HOLE COVER

I.D. OF PROTECTIVE CASING: 6-INCH

DIAMETER OF HOLE: 6-INCH

TYPE OF RISER PIPE: SCH 40 PVC

RISER PIPE I.D.: 2-INCH

TYPE OF BACKFILL/SEAL: TYPE I PORTLAND CEMENT

ELEVATION/DEPTH TOP OF SEAL: / 25 ft

TYPE OF SEAL: 30/65 FINE SAND

ELEVATION/DEPTH TOP OF SAND: / 26.5 ft

ELEVATION/DEPTH TOP OF SCREEN: / 30 ft

TYPE OF SCREEN: SCH 40 PVC

SLOT SIZE x LENGTH: 0.010-mil x 5 ft

TYPE OF SAND PACK: 20/30 SILICA SAND

DIAMETER OF HOLE IN BEDROCK: 6-INCH

ELEVATION / DEPTH BOTTOM OF SCREEN: / 35 ft

ELEVATION / DEPTH BOTTOM OF SAND: / 35 ft

ELEVATION/DEPTH BOTTOM OF HOLE: / 35 ft

BACKFILL MATERIAL BELOW SAND: NATURAL FILL

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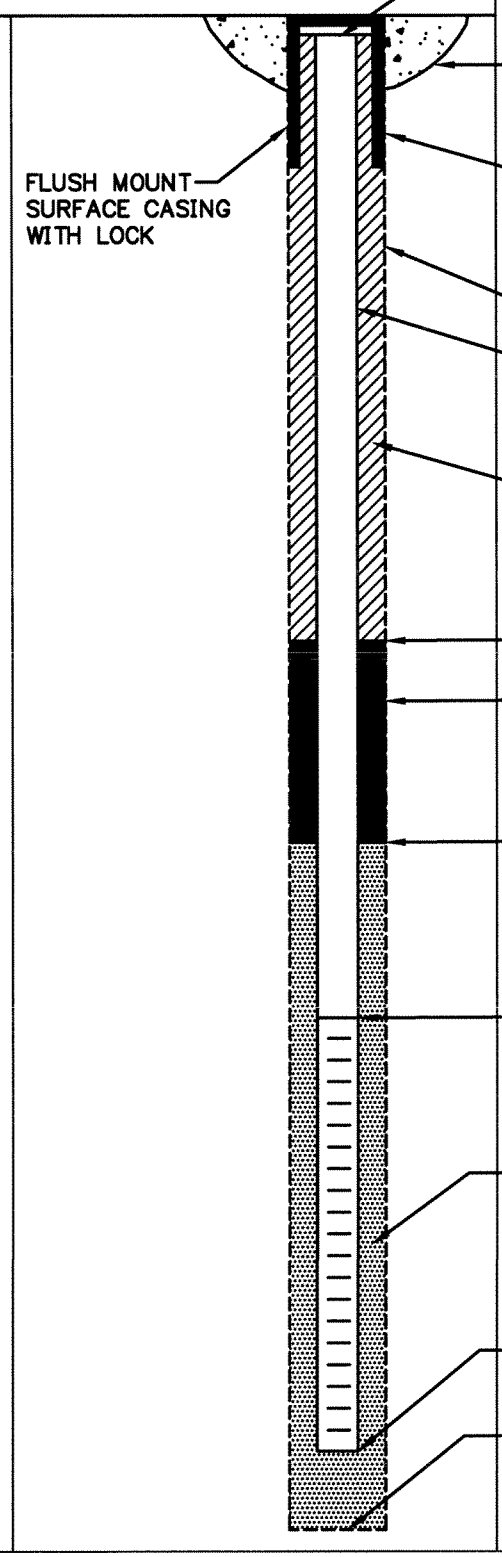
WELL NO.: CEF-081-171

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT Site 81 ABC	LOCATION NAS Cecil Field	DRILLER D. Jurss
PROJECT NO. 112G00378	BORING	DRILLING METHOD Hollow Stem Auger
DATE BEGUN 11/21/06	DATE COMPLETED 11/21/06	
FIELD GEOLOGIST Terry Cottenoir		DEVELOPMENT METHOD Bailer
GROUND ELEVATION	DATUM	



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL: Quikrete Concrete Mix

TYPE OF PROTECTIVE CASING: Steel Manhole Cover

I.D. OF PROTECTIVE CASING: 6-inch

DIAMETER OF HOLE: 6-inch

TYPE OF RISER PIPE: Sch 40 PVC

RISER PIPE I.D.: 2-inch

TYPE OF BACKFILL/SEAL: Type I Portland Cement

ELEVATION/DEPTH TOP OF SEAL: / 25 ft

TYPE OF SEAL: 30/65 Fine Sand

ELEVATION/DEPTH TOP OF SAND: / 26.5 ft

ELEVATION/DEPTH TOP OF SCREEN: / 30 ft

TYPE OF SCREEN: Sch 40 PVC

SLOT SIZE x LENGTH: 0.010-mil x 5 ft

TYPE OF SAND PACK: 20/30 Silica Sand

DIAMETER OF HOLE IN BEDROCK: 6-inch

ELEVATION / DEPTH BOTTOM OF SCREEN: / 35 ft

ELEVATION / DEPTH BOTTOM OF SAND: / 35 ft

ELEVATION/DEPTH BOTTOM OF HOLE: / 35 ft

BACKFILL MATERIAL BELOW SAND: Natural Fill

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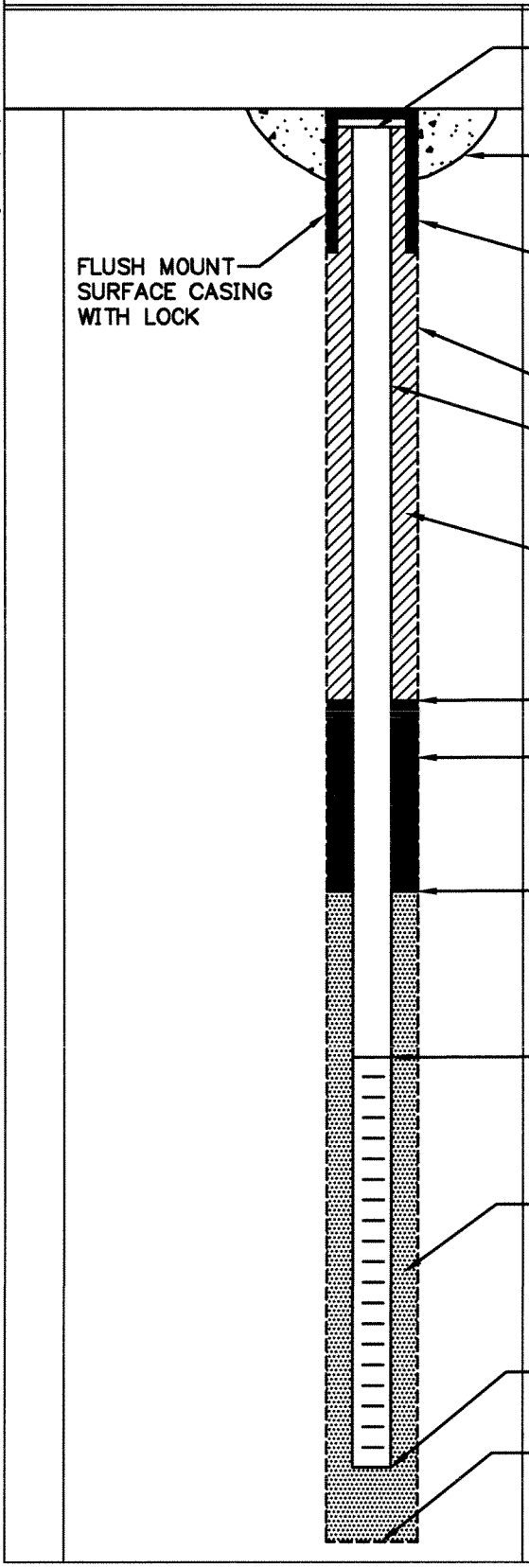
WELL NO.: CEF-081-18I

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT Site 81 ABC	LOCATION NAS Cecil Field	DRILLER D. Jurss
PROJECT NO. 112G00378	BORING	DRILLING METHOD Hollow Stem Auger
DATE BEGUN 11/20/06	DATE COMPLETED 11/21/06	
FIELD GEOLOGIST Terry Cottenoir		DEVELOPMENT METHOD Bailer
GROUND ELEVATION	DATUM	



ELEVATION TOP OF RISER: _____

TYPE OF SURFACE SEAL: Quikcrete Concrete Mix

TYPE OF PROTECTIVE CASING: Steel Man-Hole Cover

I.D. OF PROTECTIVE CASING: 6-inch

DIAMETER OF HOLE: 6-inch

TYPE OF RISER PIPE: Sch 40 PVC

RISER PIPE I.D.: 2-inch

TYPE OF BACKFILL/SEAL: Type I Portland Cement

ELEVATION/DEPTH TOP OF SEAL: 25 ft

TYPE OF SEAL: 30/65 Fine Sand

ELEVATION/DEPTH TOP OF SAND: 26.5 ft

ELEVATION/DEPTH TOP OF SCREEN: 30 ft

TYPE OF SCREEN: Sch 40 PVC

SLOT SIZE x LENGTH: 0.010-mil x 5 ft

TYPE OF SAND PACK: 20/30 Silica Sand

DIAMETER OF HOLE IN BEDROCK: 6-inch

ELEVATION / DEPTH BOTTOM OF SCREEN: 35 ft

ELEVATION / DEPTH BOTTOM OF SAND: 35 ft

ELEVATION/DEPTH BOTTOM OF HOLE: 35 ft

BACKFILL MATERIAL BELOW SAND: _____

ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: CEF-081-17S

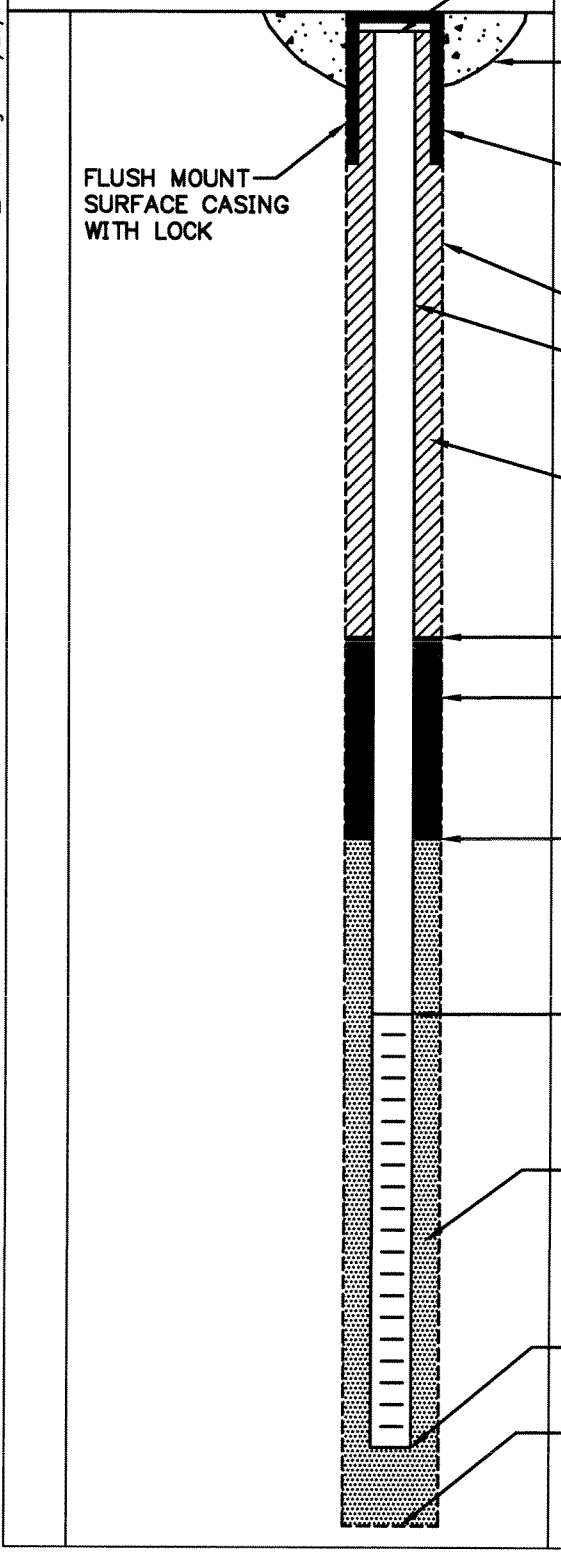
Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT: SITE 81 ABC
PROJECT NO.: 112G00378
DATE BEGUN: 11/20/06
FIELD GEOLOGIST: TERRY COTTENOIR
GROUND ELEVATION: _____

LOCATION: NAS CECIL FIELD
BORING: _____
DATE COMPLETED: 11/20/06
DATUM: _____

DRILLER: D. JURSS
DRILLING METHOD: HOLLOW STEM AUGER
DEVELOPMENT METHOD: BAILER



ELEVATION TOP OF RISER: _____

TYPE OF SURFACE SEAL: QUIKRETE CONCRETE MIX

TYPE OF PROTECTIVE CASING: STEEL MAN-HOLE COVER

I.D. OF PROTECTIVE CASING: 6-INCH

DIAMETER OF HOLE: 6-INCH

TYPE OF RISER PIPE: SCH 40 PVC

RISER PIPE I.D.: 2-INCH

TYPE OF BACKFILL/SEAL: QUIKCRETE CONCRETE MIX

ELEVATION/DEPTH TOP OF SEAL: 11 ft.

TYPE OF SEAL: 30/65 FINE SAND

ELEVATION/DEPTH TOP OF SAND: 13 ft.

ELEVATION/DEPTH TOP OF SCREEN: 15 ft

TYPE OF SCREEN: SCH 40 PVC

SLOT SIZE x LENGTH: 0.010-mil x 10 ft

TYPE OF SAND PACK: 20/30 SILICA SAND

DIAMETER OF HOLE IN BEDROCK: 6-INCH

ELEVATION / DEPTH BOTTOM OF SCREEN: 15 ft

ELEVATION / DEPTH BOTTOM OF SAND: 15 ft

ELEVATION/DEPTH BOTTOM OF HOLE: 15 ft

BACKFILL MATERIAL BELOW SAND: NATURAL FILL

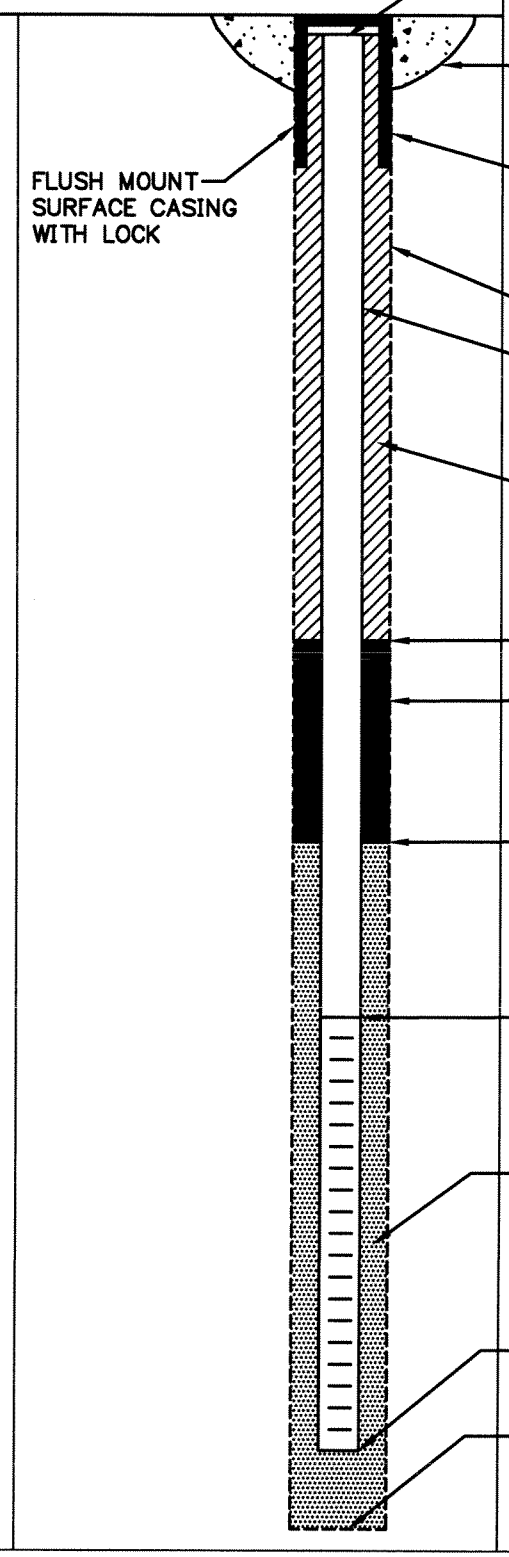
ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: CEF-081-16S

Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT: SITE 81 ABC
LOCATION: NAS CECIL FIELD
DRILLER: D. JURSS
PROJECT NO.: 112G00378
BORING:
DRILLING METHOD: HOLLOW STEM AUGER
DATE BEGUN: 11/20/06
DATE COMPLETED: 11/20/06
FIELD GEOLOGIST: TERRY COTTENOIR
DEVELOPMENT METHOD:
GROUND ELEVATION:
DATUM:



ELEVATION TOP OF RISER:

TYPE OF SURFACE SEAL: QUIKRETE CONCRETE MIX

TYPE OF PROTECTIVE CASING: STEEL MAN HOLE COVER

I.D. OF PROTECTIVE CASING: 6-inch

DIAMETER OF HOLE: 6-inch

TYPE OF RISER PIPE: SCH 40 PVC

RISER PIPE I.D.: 2-inch

TYPE OF BACKFILL/SEAL: QUIKCRETE CONCRETE MIX

ELEVATION/DEPTH TOP OF SEAL: 1 ft

TYPE OF SEAL: 30/65 FINE SAND

ELEVATION/DEPTH TOP OF SAND: 3 ft

ELEVATION/DEPTH TOP OF SCREEN: 5 ft

TYPE OF SCREEN: SCH 40 PVC

SLOT SIZE x LENGTH: 0.010-mil x 10 ft

TYPE OF SAND PACK: 20/30 SILICA SAND

DIAMETER OF HOLE IN BEDROCK: 6-inch

ELEVATION / DEPTH BOTTOM OF SCREEN: 15 ft

ELEVATION / DEPTH BOTTOM OF SAND: 15 ft

ELEVATION/DEPTH BOTTOM OF HOLE: 15 ft

BACKFILL MATERIAL BELOW SAND: NATURAL FILL

ACAD:FORM_MWFM.dwg 07/20/99 INL

WELL NO.: CEF-081-155

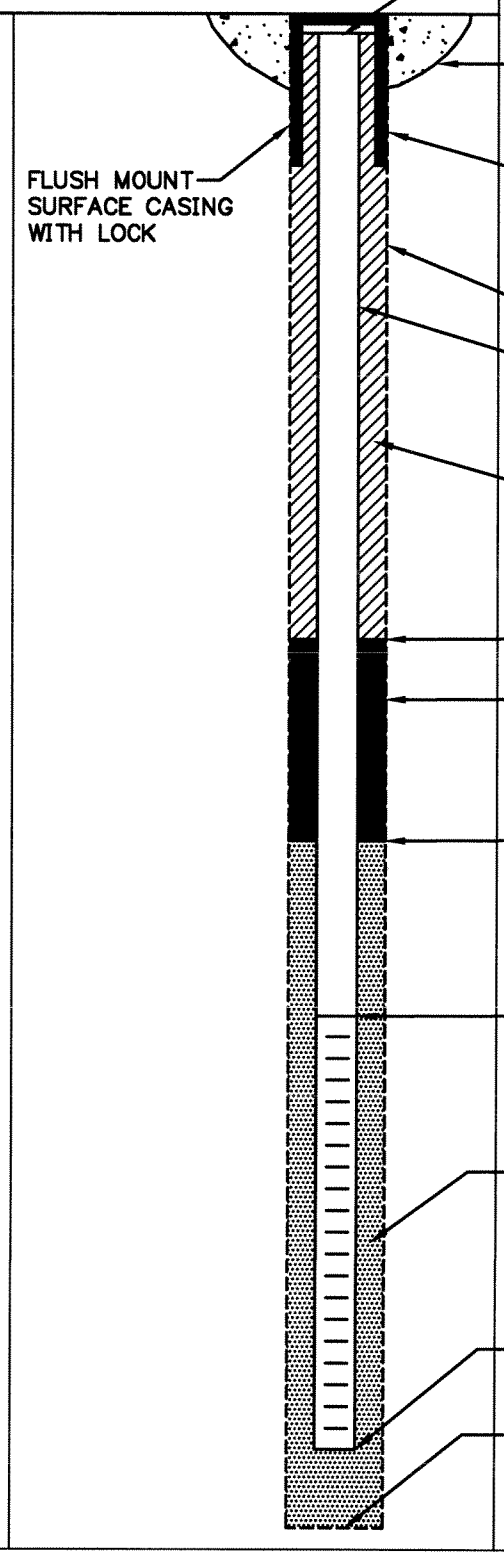
Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

PROJECT: SITE 81 ABC
PROJECT NO.: 112G00378
DATE BEGUN: 11/20/06
FIELD GEOLOGIST: TERRY COTTENDIR
GROUND ELEVATION: _____

LOCATION: NAS CECIL FIELD
BORING: _____
DATE COMPLETED: 11/20/06
DATUM: _____

DRILLER: D. JURSS
DRILLING METHOD: HOLLOW STEM AUGER
DEVELOPMENT METHOD: BAILER



ELEVATION TOP OF RISER: _____

TYPE OF SURFACE SEAL: ~~STEEL MAN HOLE~~ QUIKRETE CONCRETE MIX

TYPE OF PROTECTIVE CASING: STEEL MAN HOLE COVER

I.D. OF PROTECTIVE CASING: 6-inch

DIAMETER OF HOLE: 6-inch

TYPE OF RISER PIPE: SCH 40 PVC

RISER PIPE I.D.: 2-inch

TYPE OF BACKFILL/SEAL: QUIKRETE CONCRETE MIX

ELEVATION/DEPTH TOP OF SEAL: 11 ft

TYPE OF SEAL: 30/65 FINE SAND

ELEVATION/DEPTH TOP OF SAND: 13 ft

ELEVATION/DEPTH TOP OF SCREEN: 15 ft

TYPE OF SCREEN: SCH 40 PVC

SLOT SIZE x LENGTH: 0.010-mil x 10 ft

TYPE OF SAND PACK: 20/30 SILICA SAND

DIAMETER OF HOLE IN BEDROCK: 6-inch

ELEVATION / DEPTH BOTTOM OF SCREEN: 15 ft

ELEVATION / DEPTH BOTTOM OF SAND: 15 ft

ELEVATION/DEPTH BOTTOM OF HOLE: 15 ft

BACKFILL MATERIAL BELOW SAND: NATURAL FILL

ACAD:FORM_MWFM.dwg 07/20/99 INL

TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER 2434

PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G00378	CTO 25 / SITE 81ABC	ROB SIMCIK	(412) 921-8163	ENCO
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
Terry Cottenoir		TERRY COTTENOIR	(904) 636-6125	4810 EXECUTIVE PARK COURT, STE 211
		CARRIER/WAYBILL NUMBER		CITY, STATE
		DROP OFF AT LAB		JACKSONVILLE, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: HCL –

DATE YEAR 2006	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	VOCs / 8260B	PAHs / 8310							COMMENTS
11/21	1010	CEF-81-15S-02				GW	G	4	X	X							Cool to 4°C
	1138	CEF-81-17S-02							X	X							
	1349	CEF-81-16S-02							X	X							Project Name
11/22	0942	CEF-81-18I-02						4	X	X							NAS Cecil Field, FL,
	1047	CEF-81-19I-02							X	X							CTO 25
	1158	CEF-81-20I-02							X	X							
	1220	CEF-81-EB01-02				QC	G	4	X	X							
	0000	CEF-81-DUP01-02				GW	G	4	X	X							

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY Terry Cottenoir	11/22/06	1400	1. RECEIVED BY C. Tompkins	11/22/06	14:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

Tetra Tech NUS, Inc.

EQUIPMENT CALIBRATION LOG

PROJECT NAME : Cecil Field - CTO 25

INSTRUMENT NAME/MODEL: YSI 556 MPS

SITE NAME: 81 ABC

MANUFACTURER: YSI

PROJECT No.: 112G00378

SERIAL NUMBER: 05C1159 AJ

Date of Calibration	Instrument I.D. Number	Person Performing Calibration	Instrument Settings		Instrument Readings		Calibration Standard (Lot No.)	Remarks and Comments
			Pre-calibration	Post-calibration	Pre-calibration	Post-calibration		
11-21-06	05C1159	J. Foster	pH	4.0	4.28	4.00	NA	
↓	↓	↓	pH	10.0	9.45	10.00	NA	
			Cond.	1.409	0.679	1.409	NA	
			ORP	240	243.7	240	G829	Exp. 10-2007
			D.O.	100%	101.1%	100%	NA	
11-21-06	3327-2402	J. Foster	Turbidity	0	0	0	NA	LaMotte 2020
↓	↓	↓	Turbidity	10.0	11	10.0	NA	LaMotte 2020
11/22/06	05C1159 AJ	TC	pH	4.0	3.88	4.00	NA	
			pH	7.0	7.28	7.00	NA	
			COND	1.409	2.371	1.409	NA	
			ORP	240	247.8	240.0	G829	Exp: 10/07
			DO	100%	103.6	100.0%	NA	
11/22/06	3327-2402	TC	NTU	0.0	0.0	0.0	NA	LaMotte 2020
			NTU	10.0	9.3	10.0	NA	LaMotte 2020

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project / Site: Site 81 ABC, NAS Cecil Field
Project No.: 112G00378

Sample ID No.: CEF-081-15S-02
Sample Location: CEF-081-15S

[X] Monitoring Well
[ ] Domestic Well
[ ] Other:

Sampler: J. Foster

SAMPLING DATA

Date: 11-21-06	Color	pH S.U.	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	
Time: 1010								
Method: Peristaltic	Clear	6.71	0.308	23.76	2.0	2.37	136.6	

PURGE DATA

Date:	11-21-06
Method:	Peristaltic
Monitor Reading (ppm):	0
Well Casing Diameter:	2 inch
Well Casing Material:	PVC
Total Well Depth (ft):	15
Static Water Level (ft):	9.65
One Screen Volume(gal/L):	3.2
Start Purge (hrs):	0924
End Purge (hrs):	1008
Total Purge Time (min):	44
Total Vol. Purged (gal/L):	17.2

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Laboratory	Collected
VOCs	8260B	HCL	3 - 40 ml vials	ENCO	✓
PAHs	8310	None	1 - 1 L Amber	ENCO	✓

OBSERVATIONS / NOTES

Purged five well volumes
Sample time 1010

LAB INFO

LAB: ENCO
4810 Executive Park Court
Suite 211
Jacksonville, FL 32216
COC #: 2434

Check if Collected:

☐ MS / MSD ☐ DUPLICATE / ID No.:

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: Site 81 ABC, NAS Cecil Field
PROJECT NUMBER: 112G00378
WELL ID.: CEF-081-15S
DATE: 11-21-06

Time (Hrs.)	Water Level (Ft. below TOC)	Cum.Vol. (liters)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
0924	9.65	—	300	—	—	—	—	—	—	
0944	9.87	6.0	300	6.94	0.401	2.5	2.72	23.75	139.2	
~~0949~~	~~9.87~~	~~8.5~~	~~300~~	~~6.84~~	~~0.359~~	~~1.9~~	~~2.51~~	~~23.80~~	~~138.6~~	
0954	9.87	~~8.5~~ 11.0	300	6.84	0.359	1.9	2.51	23.80	138.6	
0959	9.87	13.5	300	6.78	0.336	2.1	2.50	23.75	135.3	
1004	9.87	16.0	300	6.73	0.319	1.8	2.37	23.84	135.7	
1008	9.87	17.2	300	6.71	0.308	2.0	2.37	23.76	136.6	

CEF-81-15S-02

10.2 L = 3 well volumes (
17 L = 5 well volumes

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project / Site: Site 81 ABC, NAS Cecil Field
Project No.: 112G00378

Sample ID No.: CEF-081-17S-02
Sample Location: CEF-081-17S

[X] Monitoring Well
[ ] Domestic Well
[ ] Other:

Sampler: J. Foster

SAMPLING DATA

	Color	pH S.U.	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	
Date: 11-21-06 Time: 1138 Method: Peristaltic	clear	5.52	0.163	23.63	0.55	3.84	179.8	

PURGE DATA

Date:	11-21-06
Method:	Peristaltic
Monitor Reading (ppm):	0
Well Casing Diameter:	2
Well Casing Material:	PVC
Total Well Depth (ft):	15
Static Water Level (ft):	10.05
One Screen Volume(gal/L):	3.1 L
Start Purge (hrs):	1044
End Purge (hrs):	1136
Total Purge Time (min):	52
Total Vol. Purged (gal/L):	15.5 L

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Laboratory	Collected
VOCs	8260B	HCL	3 - 40 ml vials	ENCO	✓
PAHs	8310	None	1 - 1 L Amber	ENCO	✓

OBSERVATIONS / NOTES

Purged five well volumes to address D.O. above 20%.

Sample Time 1138

LAB INFO

LAB: ENCO
4810 Executive Park Court
Suite 211
Jacksonville, FL 32216

COC #: 2434

Check if Collected:

☐ MS / MSD ☐ DUPLICATE / ID No.:

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: Site 81 ABC, NAS Cecil Field
PROJECT NUMBER: 112G00378

WELL ID.: CEF-081-17S
DATE: 11-21-06

Time (Hrs.)	Water Level (Ft. below TOC)	Cum.Vol. (liters)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1044	~~9.75~~ 10.05	—	300	—	—	—	—	—	—	
1105	10.1	~~4.8~~ 6.3	300	5.69	0.179	6.0	4.87	23.24	160.8	
1110	10.1	~~6.3~~ 7.8	300	5.69	0.183	3.2	4.66	23.34	160.6	
~~1115~~	~~10.1~~	~~9.3~~	~~300~~							
1136	10.1	15.5	300	5.52	0.163	0.55	3.84	23.63	179.8	

1 well volume = 3.1 L

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project / Site: Site 81 ABC, NAS Cecil Field
Project No.: 112G00378

Sample ID No.: CEF-081-16S-02
Sample Location: CEF-081-16S

[X] Monitoring Well
[ ] Domestic Well
[ ] Other:

Sampler: J. Foster

SAMPLING DATA

Date: 11-21-06 / Time: 1349	Color	pH S.U.	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	
Method: Peristaltic	Clear	5.33	0.189	23.26	0.45	3.86	217.7	

PURGE DATA

Date:	11-21-06
Method:	Peristaltic
Monitor Reading (ppm):	0
Well Casing Diameter:	2 in.
Well Casing Material:	PVC
Total Well Depth (ft):	15
Static Water Level (ft):	10.16
One Screen Volume(gal/L):	3.1 L
Start Purge (hrs):	1255
End Purge (hrs):	1347
Total Purge Time (min):	52
Total Vol. Purged (gal/L):	15.5 L

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Laboratory	Collected
VOCs	8260B	HCL	3 - 40 ml vials	ENCO	
PAHs	8310	None	1 - 1 L Amber	ENCO	

OBSERVATIONS / NOTES

Purged five well volumes to account for D.O. above 20%

Sample Time = 1349

LAB INFO

LAB: ENCO
4810 Executive Park Court
Suite 211
Jacksonville, FL 32216

COC #: 2434

Check if Collected:

☐ MS / MSD ☐ DUPLICATE / ID No.:

Signature(s):

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: Site 81 ABC, NAS Cecil Field
PROJECT NUMBER: 112G00378
WELL ID.: CEF-081-16S
DATE: 11-21-06

Time (Hrs.)	Water Level (Ft. below TOC)	Cum.Vol. (liters)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1255	10.16	—	300	—	—	—	—	—	—	
1316	10.30	6.3	300	5.45	0.204	1.9	4.33	23.30	220.2	
1347	10.30	15.5	300	5.33	0.189	0.45	3.86	23.26	217.7	

1 well volume = 3.1 L

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project / Site: Site 81 ABC, NAS Cecil Field
Project No.: 112G00378

Sample ID No.: CEF-081-18I-02
Sample Location: CEF-081-18I

[X] Monitoring Well
[ ] Domestic Well
[ ] Other:

Sampler: TERRY COTTENOIR

SAMPLING DATA

Date: 11/22/06 Time: 0942	Color	pH S.U.	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	
Method: Peristaltic	CLEAR	6.52	0.351	23.39	8.4	0.28	-104.6	

PURGE DATA

Date:	11/22/06
Method:	Peristaltic
Monitor Reading (ppm):	0.0
Well Casing Diameter:	2 IN
Well Casing Material:	SCH 40 PVC
Total Well Depth (ft):	35.0
Static Water Level (ft):	9.97
One Screen Volume(gal/L):	3.1
Start Purge (hrs):	0915
End Purge (hrs):	0940
Total Purge Time (min):	25
Total Vol. Purged (gal/L):	10.0

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Laboratory	Collected
VOCs	8260B	HCL	3 - 40 ml vials	ENCO	✓
PAHs	8310	–	1 - 1 L AMBER	ENCO	✓

OBSERVATIONS / NOTES

LAB INFO

LAB: ENCO
4810 Executive Park Court
Suite 211
Jacksonville, FL 32216
COC #: 2434

Check if Collected:

☐ MS / MSD ☒ DUPLICATE / ID No.: CEF-081-DUP01-02

Signature(s): Terry Cottenoir

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: Site 81 ABC, NAS Cecil Field
PROJECT NUMBER: 112G00378

WELL ID.: CEF-081-18I
DATE: 11/22/06

Time (Hrs.)	Water Level (Ft. below TOC)	Cum.Vol. (liters)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
0915	9.97	–	400	–	–	–	–	–	–	CLEAR H_2O
0920	10.01	2.0	400	6.44	0.327	600	1.16	23.19	-74.2	CLOUDY H_2O
0925	10.02	4.0	400	6.57	0.367	850	0.86	23.34	-96.3	CLOUDY H_2O
0930	10.02	6.0	400	6.57	0.354	38	0.39	23.44	-100.3	CLOUDY H_2O
0935	10.02	8.0	400	6.55	0.352	16	0.36	23.40	-102.8	CLEAR H_2O
0940	10.02	10.0	400	6.52	0.351	8.4	0.28	23.39	-104.6	CLEAR H_2O

SAMPLE TIME 0942

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project / Site: Site 81 ABC, NAS Cecil Field
Project No.: 112G00378

Sample ID No.: CEF-081-19I-02
Sample Location: CEF-081-19I

[X] Monitoring Well
[ ] Domestic Well
[ ] Other:

Sampler: TERRY COTTENOIR

SAMPLING DATA

	Color	pH S.U.	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	
Date: 11/22/06 Time: 1047 Method: Peristaltic	LT. BROWN	6.47	0.330	23.61	>999	0.80	-106.6	

PURGE DATA

Date:	11/22/06
Method:	Peristaltic
Monitor Reading (ppm):	0.0
Well Casing Diameter:	2 IN
Well Casing Material:	SCH 40 PVC
Total Well Depth (ft):	35.0
Static Water Level (ft):	9.82
One Screen Volume(gal/L):	3.1
Start Purge (hrs):	1005
End Purge (hrs):	1045
Total Purge Time (min):	40
Total Vol. Purged (gal/L):	16.0

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Laboratory	Collected
VOCs	8260B	HCL	3 - 40 ml vials	ENCO	✓
PAHs	8310	—	1 - 1L AMBER	ENCO	✓

OBSERVATIONS / NOTES

PURGED >5 WELL VOLUMES TO BRING TURBIDITY DOWN. WATER STILL TURBID AT SAMPLE TIME, BUT ALL OTHER PARAMETERS STABLE.

LAB INFO

LAB: ENCO
4810 Executive Park Court
Suite 211
Jacksonville, FL 32216

COC #: 2434

Check if Collected:

☐ MS / MSD ☐ DUPLICATE / ID No.:

Signature(s): Terry Cottenoir

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: Site 81 ABC, NAS Cecil Field
PROJECT NUMBER: 112G00378

WELL ID.: CEF-081-19I
DATE: 11/22/06

Time (Hrs.)	Water Level (Ft. below TOC)	Cum.Vol. (liters)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1005	9.82	–	400	–	–	–	–	–	–	CLOUDY / LT. BROWN
1010	9.87	2.0	400	6.67	0.399	>999	0.27	24.00	-109.2	CLOUDY / LT. BROWN
1015	9.90	4.0	400	6.60	0.372	>999	0.38	23.50	-108.3	CLOUDY / LT. BROWN
1020	9.90	6.0	400	6.57	0.361	>999	0.49	23.53	-107.8	CLOUDY / LT. BROWN
1025	9.90	8.0	400	6.54	0.348	>999	0.56	23.44	-107.9	CLOUDY / LT. BROWN
1030	9.90	10.0	400	6.52	0.340	>999	0.72	23.48	-107.4	CLOUDY / LT. BROWN
1035	9.90	12.0	400	6.50	0.331	>999	0.89	23.54	-107.4	CLOUDY / LT. BROWN
1040	9.90	14.0	400	6.48	0.329	>999	0.86	23.60	-107.2	CLOUDY / LT. BROWN
1045	9.90	16.0	400	6.47	0.330	>999	0.80	23.61	-106.6	CLOUDY / LT. BROWN

SAMPLE TIME 1047

Tetra Tech NUS, Inc.

GROUNDWATER SAMPLE LOG SHEET

Project / Site: Site 81 ABC, NAS Cecil Field
Project No.: 112G00378

Sample ID No.: CEF-081-20I
Sample Location: CEF-081-20I

[X] Monitoring Well
[ ] Domestic Well
[ ] Other:

Sampler: TERRY COTTENOIR

SAMPLING DATA

Date: 11/22/06 Time: 1158	Color	pH S.U.	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	
Method: Peristaltic	CLOUDY	6.05	0.168	24.08	560	0.32	-56.7	

PURGE DATA

Date:	11/22/06
Method:	Peristaltic
Monitor Reading (ppm):	0.0
Well Casing Diameter:	2 IN
Well Casing Material:	SCH 40 PVC
Total Well Depth (ft):	35.0
Static Water Level (ft):	9.24
One Screen Volume(gal/L):	3.1
Start Purge (hrs):	1116
End Purge (hrs):	1156
Total Purge Time (min):	40
Total Vol. Purged (gal/L):	16.0

See Attached Low Flow Purge Data Sheet for Purge Data

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Laboratory	Collected
VOCs	8260B	HCL	3 - 40 ml vials	ENCO	✓
PAHs	8310	—	1-1 L AMBER	ENCO	✓

OBSERVATIONS / NOTES

PURGED >5 WELL VOLUMES IN ORDER TO BRING TURBIDITY DOWN. H_2O STILL TURBID AT SAMPLE TIME, BUT ALL OTHER PARAMETERS STABLE.

LAB INFO

LAB: ENCO
4810 Executive Park Court
Suite 211
Jacksonville, FL 32216

COC #: 2434

Check if Collected:

☐ MS / MSD ☐ DUPLICATE / ID No.:

Signature(s): Terry Cottenoir

Tetra Tech NUS, Inc.

LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: Site 81 ABC, NAS Cecil Field
PROJECT NUMBER: 112G00378

WELL ID.: CEF-081-20I
DATE: 11/22/06

Time (Hrs.)	Water Level (Ft. below TOC)	Cum.Vol. (liters)	Flow (mL/Min.)	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celsius)	ORP (mV)	Comments
1116	9.24	–	400	–	–	–	–	–	–	CLOUDY
1121	9.31	2.0	400	6.58	0.217	880	0.97	23.99	-58.3	CLOUDY
1126	9.33	4.0	400	6.37	0.211	720	0.48	24.04	-62.6	CLOUDY
1131	9.33	6.0	400	6.35	0.207	700	0.48	24.05	-71.6	CLOUDY
1136	9.33	8.0	400	6.29	0.199	660	0.42	24.09	-68.3	CLOUDY
1141	9.33	10.0	400	6.21	0.190	620	0.37	24.12	-65.7	CLOUDY
1146	9.33	12.0	400	6.09	0.179	600	0.36	24.11	-62.3	CLOUDY
1151	9.33	14.0	400	6.07	0.173	580	0.33	24.09	-58.9	CLOUDY
1156	9.33	16.0	400	6.05	0.168	560	0.32	24.08	-56.7	CLOUDY

SAMPLE TIME 1158

ATTACHMENT D

GROUNDWATER ANALYTICAL REPORT
NOVEMBER 2006

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CASE NARRATIVE

Semivolatiles Fraction

Tetra Tech NUS, Inc/NAS Cecil Field CTO #0025

Project Manger Dave Siefken

SDG BR006-002

Lab Sample ID	Client Sample ID
B610171-01	CEF-81-15S-02
B610171-02	CEF-81-17S-02
B610171-03	CEF-81-16S-02
B610171-04	CEF-81-18I-02
B610171-05	CEF-81-19I-02
B610171-06	CEF-81-20I-02
B610171-07	CEF-81-EB01-02
B610171-08	CEF-81-DUP01-02

The samples were extracted/analyze by USEPA SW-846 Methods 3545/8270c for soils upon receipt to the laboratory in satisfactory condition.

The analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- Due to insufficient sample, the MS/MSD were performed on an alternative sample not related to this project.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:
Environmental Conservation Laboratories, Inc.

Christina Tompkins Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.05.03 08:36:00 -04'00'

Christina M. Tompkins
Project Manager

B610171

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 2434 | PAGE 1 OF 1

PROJECT NO: 112G00378	FACILITY: CTO 25 / SITE 81ABC	PROJECT MANAGER: ROB SIMCIK	PHONE NUMBER: (412) 921-8163	LABORATORY NAME AND CONTACT: ENCO
SAMPLERS (SIGNATURE): Terry Cottenoir		FIELD OPERATIONS LEADER: TERRY COTTENOIR	PHONE NUMBER: (904) 636-6125	ADDRESS: 4810 EXECUTIVE PARK COURT, STE 211
		CARRIER/WAYBILL NUMBER: DROP OFF AT LAB		CITY, STATE: JACKSONVILLE, FL

STANDARD TAT [X]
RUSH TAT [ ]
[ ] 24 hr. [ ] 48 hr. [ ] 72 hr. [ ] 7 day [ ] 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: HCL –

DATE YEAR 2006	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: VOCs / 8260B	PAHs / 8310						COMMENTS
11/21	1010	CEF-81-15S-02				GW	G	4	X	X						COOL TO 4°C
	1138	CEF-81-17S-02							X	X						
	1349	CEF-81-16S-02							X	X						PROJECT NAME:
11/22	0942	CEF-81-18I-02						4	X	X						NAS Cecil Field, FL,
	1047	CEF-81-19I-02							X	X						CTO 25
	1158	CEF-81-20I-02							X	X						
	1220	CEF-81-EB01-02				QC	G	4	X	X						
	0000	CEF-81-DUP01-02				GW	G	4	X	X						

1. RELINQUISHED BY: Terry Cottenoir	DATE: 11/22/06	TIME: 1400	1. RECEIVED BY: C. Tompkins	DATE: 11/22/06	TIME: 14:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

ENCO Jacksonville

SDG: BR006-002

CLASS: SVOA

METHOD: EPA 8270C

ANALYSES DATA PACKAGE COVER PAGE

EPA 8270C

Laboratory: ENCO Jacksonville

SDG: BR006-002

Client: Tetra Tech NUS (BR006)

Project: NAS Cecil Field CTO #0025

Client Sample Id:	Lab Sample Id:
CEF-81-15S-02	B610171-01
CEF-81-17S-02	B610171-02
CEF-81-16S-02	B610171-03
CEF-81-18I-02	B610171-04
CEF-81-19I-02	B610171-05
CEF-81-20I-02	B610171-06
CEF-81-EB01-02	B610171-07
CEF-81-DUP01-02	B610171-08

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins Digitally signed by Christina Tompkins DN: cn=Christina Tompkins, email=tompkinsc@enco.com, c=US Date: 2007.05.03 08:36:35 -04'00'

Name: Christina Tompkins

Date: 5/3/07

Title: Project Manager

PREPARATION BATCH SUMMARY

EPA 8270C

Laboratory: ENCO Jacksonville SDG: BR006-002

Client: Tetra Tech NUS (BR006) Project: NAS Cecil Field CTO #0025

Batch: 6K28001 Batch Matrix: Water Preparation: EPA 3510C_MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6K28001-BLK1	5KY033.D	11/28/06 10:17	
LCS	6K28001-BS1	5KY034.D	11/28/06 10:17	
MW-1	6K28001-MS1	5KY035.D	11/28/06 10:17	
MW-1	6K28001-MSD1	5KY036.D	11/28/06 10:17	
CEF-81-15S-02	B610171-01	5KY038.D	11/28/06 10:17	
CEF-81-17S-02	B610171-02	5KY039.D	11/28/06 10:17	
CEF-81-16S-02	B610171-03	5KY040.D	11/28/06 10:17	
CEF-81-18I-02	B610171-04	5KY041.D	11/28/06 10:17	
CEF-81-19I-02	B610171-05	5KY042.D	11/28/06 10:17	
CEF-81-20I-02	B610171-06	5KY043.D	11/28/06 10:17	
CEF-81-EB01-02	B610171-07	5KY044.D	11/28/06 10:17	
CEF-81-DUP01-02	B610171-08	5KY045.D	11/28/06 10:17	

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)	Project:	NAS Cecil Field CTO #0025
Sequence:	BA00079	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0611002

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	BA00079-TUN1	5KY031.D	11/30/06 20:06
Calibration Check	BA00079-CCV1	5KY032.D	11/30/06 20:20
Blank	6K28001-BLK1	5KY033.D	11/30/06 20:37
LCS	6K28001-BS1	5KY034.D	11/30/06 20:55
MW-1	6K28001-MS1	5KY035.D	11/30/06 21:13
MW-1	6K28001-MSD1	5KY036.D	11/30/06 21:30
CEF-81-15S-02	B610171-01	5KY038.D	11/30/06 22:05
CEF-81-17S-02	B610171-02	5KY039.D	11/30/06 22:23
CEF-81-16S-02	B610171-03	5KY040.D	11/30/06 22:41
CEF-81-18I-02	B610171-04	5KY041.D	11/30/06 22:58
CEF-81-19I-02	B610171-05	5KY042.D	11/30/06 23:16
CEF-81-20I-02	B610171-06	5KY043.D	11/30/06 23:33
CEF-81-EB01-02	B610171-07	5KY044.D	11/30/06 23:51
CEF-81-DUP01-02	B610171-08	5KY045.D	12/01/06 00:09

HOLDING TIME SUMMARY

EPA 8270C

Laboratory: ENCO Jacksonville SDG: BR006-002

Client: Tetra Tech NUS (BR006) Project: NAS Cecil Field CTO #0025

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	O
CEF-81-15S-02	11/21/06 10:10	11/22/06 14:00	11/28/06 10:17	7.00	7.00	11/30/06 22:05	2.00	40.00	
CEF-81-17S-02	11/21/06 11:38	11/22/06 14:00	11/28/06 10:17	7.00	7.00	11/30/06 22:23	3.00	40.00	
CEF-81-16S-02	11/21/06 13:49	11/22/06 14:00	11/28/06 10:17	7.00	7.00	11/30/06 22:41	3.00	40.00	
CEF-81-18I-02	11/22/06 09:42	11/22/06 14:00	11/28/06 10:17	6.00	7.00	11/30/06 22:58	3.00	40.00	
CEF-81-19I-02	11/22/06 10:47	11/22/06 14:00	11/28/06 10:17	6.00	7.00	11/30/06 23:16	3.00	40.00	
CEF-81-20I-02	11/22/06 11:58	11/22/06 14:00	11/28/06 10:17	6.00	7.00	11/30/06 23:33	3.00	40.00	
CEF-81-EB01-02	11/22/06 12:20	11/22/06 14:00	11/28/06 10:17	6.00	7.00	11/30/06 23:51	3.00	40.00	
CEF-81-DUP01-02	11/22/06 00:00	11/22/06 14:00	11/28/06 10:17	6.00	7.00	12/01/06 00:09	3.00	40.00	

ORGANIC ANALYSIS DATA SHEET

EPA 8270C

CEF-81-15S-02

Laboratory:	ENCO Jacksonville			SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)			Project:	NAS Cecil Field CTO #0025
Matrix:	Water	Laboratory ID:	B610171-01	File ID:	5KY038.D
Sampled:	11/21/06 10:10	Prepared:	11/28/06 10:17	Analyzed:	11/30/06 22:05
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

Batch: 6K28001 Sequence: BA00079 Calibration: 0611002 Instrument: JSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
56-55-3	Benzo(a)anthracene	1	0.01	U	0.01	0.10
205-99-2	Benzo(b)fluoranthene	1	0.03	U	0.03	0.10
207-08-9	Benzo(k)fluoranthene	1	0.02	U	0.02	0.10
191-24-2	Benzo(g,h,i)perylene	1	0.03	U	0.03	0.10
50-32-8	Benzo(a)pyrene	1	0.01	U	0.01	0.10
53-70-3	Dibenzo(a,h)anthracene	1	0.02	U	0.02	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.02	U	0.02	0.10
91-20-3	Naphthalene	1	0.55		0.02	0.10
91-57-6	2-Methylnaphthalene	1	0.02	U	0.02	0.10
90-12-0	1-Methylnaphthalene	1	0.02	U	0.02	0.10
208-96-8	Acenaphthylene	1	0.01	U	0.01	0.10
83-32-9	Acenaphthene	1	0.02	U	0.02	0.10
86-73-7	Fluorene	1	0.02	U	0.02	0.10
85-01-8	Phenanthrene	1	0.02	U	0.02	0.10
120-12-7	Anthracene	1	0.02	U	0.02	0.10
206-44-0	Fluoranthene	1	0.01	U	0.01	0.10
129-00-0	Pyrene	1	0.02	U	0.02	0.10
218-01-9	Chrysene	1	0.02	U	0.02	0.10

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
p-Terphenyl	5.00	3.94	79	10 - 167	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	501820	3.4	578688	3.4	
Acenaphthene-d10	317315	5.12	362264	5.12	
Phenanthrene-d10	548783	6.61	624901	6.61	
Chrysene-d12	686327	9.13	745777	9.13	
Perylene-d12	719262	10.46	795545	10.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

CEF-81-17S-02

Laboratory:	ENCO Jacksonville			SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)			Project:	NAS Cecil Field CTO #0025
Matrix:	Water	Laboratory ID:	B610171-02	File ID:	5KY039.D
Sampled:	11/21/06 11:38	Prepared:	11/28/06 10:17	Analyzed:	11/30/06 22:23
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

Batch: 6K28001 Sequence: BA00079 Calibration: 0611002 Instrument: JSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
56-55-3	Benzo(a)anthracene	1	0.01	U	0.01	0.10
205-99-2	Benzo(b)fluoranthene	1	0.03	U	0.03	0.10
207-08-9	Benzo(k)fluoranthene	1	0.02	U	0.02	0.10
191-24-2	Benzo(g,h,i)perylene	1	0.03	U	0.03	0.10
50-32-8	Benzo(a)pyrene	1	0.01	U	0.01	0.10
53-70-3	Dibenzo(a,h)anthracene	1	0.02	U	0.02	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.02	U	0.02	0.10
91-20-3	Naphthalene	1	0.02	U	0.02	0.10
91-57-6	2-Methylnaphthalene	1	0.02	U	0.02	0.10
90-12-0	1-Methylnaphthalene	1	0.02	U	0.02	0.10
208-96-8	Acenaphthylene	1	0.01	U	0.01	0.10
83-32-9	Acenaphthene	1	0.02	U	0.02	0.10
86-73-7	Fluorene	1	0.02	U	0.02	0.10
85-01-8	Phenanthrene	1	0.02	U	0.02	0.10
120-12-7	Anthracene	1	0.02	U	0.02	0.10
206-44-0	Fluoranthene	1	0.01	U	0.01	0.10
129-00-0	Pyrene	1	0.02	U	0.02	0.10
218-01-9	Chrysene	1	0.02	U	0.02	0.10

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
p-Terphenyl	5.00	3.94	79	10 - 167	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	511285	3.4	578688	3.4	
Acenaphthene-d10	320520	5.12	362264	5.12	
Phenanthrene-d10	539208	6.61	624901	6.61	
Chrysene-d12	680123	9.13	745777	9.13	
Perylene-d12	704558	10.46	795545	10.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8270C

CEF-81-16S-02

Laboratory:	ENCO Jacksonville			SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)			Project:	NAS Cecil Field CTO #0025
Matrix:	Water	Laboratory ID:	B610171-03	File ID:	5KY040.D
Sampled:	11/21/06 13:49	Prepared:	11/28/06 10:17	Analyzed:	11/30/06 22:41
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

Batch: 6K28001 Sequence: BA00079 Calibration: 0611002 Instrument: JSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
56-55-3	Benzo(a)anthracene	1	0.01	U	0.01	0.10
205-99-2	Benzo(b)fluoranthene	1	0.03	U	0.03	0.10
207-08-9	Benzo(k)fluoranthene	1	0.02	U	0.02	0.10
191-24-2	Benzo(g,h,i)perylene	1	0.03	U	0.03	0.10
50-32-8	Benzo(a)pyrene	1	0.01	U	0.01	0.10
53-70-3	Dibenzo(a,h)anthracene	1	0.02	U	0.02	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.02	U	0.02	0.10
91-20-3	Naphthalene	1	0.02	U	0.02	0.10
91-57-6	2-Methylnaphthalene	1	0.02	U	0.02	0.10
90-12-0	1-Methylnaphthalene	1	0.02	U	0.02	0.10
208-96-8	Acenaphthylene	1	0.01	U	0.01	0.10
83-32-9	Acenaphthene	1	0.02	U	0.02	0.10
86-73-7	Fluorene	1	0.02	U	0.02	0.10
85-01-8	Phenanthrene	1	0.02	U	0.02	0.10
120-12-7	Anthracene	1	0.02	U	0.02	0.10
206-44-0	Fluoranthene	1	0.01	U	0.01	0.10
129-00-0	Pyrene	1	0.02	U	0.02	0.10
218-01-9	Chrysene	1	0.02	U	0.02	0.10

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
p-Terphenyl	5.00	4.13	83	10 - 167	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	607978	3.4	578688	3.4	
Acenaphthene-d10	382936	5.12	362264	5.12	
Phenanthrene-d10	648014	6.61	624901	6.61	
Chrysene-d12	815239	9.13	745777	9.13	
Perylene-d12	851489	10.46	795545	10.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

CEF-81-181-02

Laboratory:	ENCO Jacksonville			SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)			Project:	NAS Cecil Field CTO #0025
Matrix:	Water	Laboratory ID:	B610171-04	File ID:	5KY041.D
Sampled:	11/22/06 09:42	Prepared:	11/28/06 10:17	Analyzed:	11/30/06 22:58
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

Batch: 6K28001 Sequence: BA00079 Calibration: 0611002 Instrument: JSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
56-55-3	Benzo(a)anthracene	1	0.01	U	0.01	0.10
205-99-2	Benzo(b)fluoranthene	1	0.03	U	0.03	0.10
207-08-9	Benzo(k)fluoranthene	1	0.02	U	0.02	0.10
191-24-2	Benzo(g,h,i)perylene	1	0.03	U	0.03	0.10
50-32-8	Benzo(a)pyrene	1	0.01	U	0.01	0.10
53-70-3	Dibenzo(a,h)anthracene	1	0.02	U	0.02	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.02	U	0.02	0.10
91-20-3	Naphthalene	1	0.26		0.02	0.10
91-57-6	2-Methylnaphthalene	1	0.02	U	0.02	0.10
90-12-0	1-Methylnaphthalene	1	0.09	I	0.02	0.10
208-96-8	Acenaphthylene	1	0.01	U	0.01	0.10
83-32-9	Acenaphthene	1	0.16		0.02	0.10
86-73-7	Fluorene	1	0.23		0.02	0.10
85-01-8	Phenanthrene	1	0.02	U	0.02	0.10
120-12-7	Anthracene	1	0.02	U	0.02	0.10
206-44-0	Fluoranthene	1	0.01	U	0.01	0.10
129-00-0	Pyrene	1	0.02	U	0.02	0.10
218-01-9	Chrysene	1	0.02	U	0.02	0.10

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
p-Terphenyl	5.00	3.45	69	10 - 167	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	607592	3.4	578688	3.4	
Acenaphthene-d10	394096	5.12	362264	5.12	
Phenanthrene-d10	708458	6.61	624901	6.61	
Chrysene-d12	854890	9.13	745777	9.13	
Perylene-d12	892138	10.46	795545	10.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

CEF-81-191-02

Laboratory:	ENCO Jacksonville			SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)			Project:	NAS Cecil Field CTO #0025
Matrix:	Water	Laboratory ID:	B610171-05	File ID:	5KY042.D
Sampled:	11/22/06 10:47	Prepared:	11/28/06 10:17	Analyzed:	11/30/06 23:16
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

Batch: 6K28001 Sequence: BA00079 Calibration: 0611002 Instrument: JSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
56-55-3	Benzo(a)anthracene	1	0.01	U	0.01	0.10
205-99-2	Benzo(b)fluoranthene	1	0.03	U	0.03	0.10
207-08-9	Benzo(k)fluoranthene	1	0.02	U	0.02	0.10
191-24-2	Benzo(g,h,i)perylene	1	0.03	U	0.03	0.10
50-32-8	Benzo(a)pyrene	1	0.01	U	0.01	0.10
53-70-3	Dibenzo(a,h)anthracene	1	0.02	U	0.02	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.02	U	0.02	0.10
91-20-3	Naphthalene	1	1.01		0.02	0.10
91-57-6	2-Methylnaphthalene	1	4.31		0.02	0.10
90-12-0	1-Methylnaphthalene	1	6.50		0.02	0.10
208-96-8	Acenaphthylene	1	0.01	U	0.01	0.10
83-32-9	Acenaphthene	1	0.28		0.02	0.10
86-73-7	Fluorene	1	0.65		0.02	0.10
85-01-8	Phenanthrene	1	0.10		0.02	0.10
120-12-7	Anthracene	1	0.02	U	0.02	0.10
206-44-0	Fluoranthene	1	0.01	U	0.01	0.10
129-00-0	Pyrene	1	0.02	U	0.02	0.10
218-01-9	Chrysene	1	0.02	U	0.02	0.10

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
p-Terphenyl	5.00	3.87	77	10 - 167	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	548656	3.4	578688	3.4	
Acenaphthene-d10	346724	5.12	362264	5.12	
Phenanthrene-d10	608960	6.61	624901	6.61	
Chrysene-d12	730150	9.13	745777	9.13	
Perylene-d12	761706	10.46	795545	10.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

CEF-81-201-02

Laboratory:	ENCO Jacksonville			SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)			Project:	NAS Cecil Field CTO #0025
Matrix:	Water	Laboratory ID:	B610171-06	File ID:	5KY043.D
Sampled:	11/22/06 11:58	Prepared:	11/28/06 10:17	Analyzed:	11/30/06 23:33
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

Batch: 6K28001 Sequence: BA00079 Calibration: 0611002 Instrument: JSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
56-55-3	Benzo(a)anthracene	1	0.01	U	0.01	0.10
205-99-2	Benzo(b)fluoranthene	1	0.03	U	0.03	0.10
207-08-9	Benzo(k)fluoranthene	1	0.02	U	0.02	0.10
191-24-2	Benzo(g,h,i)perylene	1	0.03	U	0.03	0.10
50-32-8	Benzo(a)pyrene	1	0.01	U	0.01	0.10
53-70-3	Dibenzo(a,h)anthracene	1	0.02	U	0.02	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.02	U	0.02	0.10
91-20-3	Naphthalene	1	0.07	I	0.02	0.10
91-57-6	2-Methylnaphthalene	1	0.02	U	0.02	0.10
90-12-0	1-Methylnaphthalene	1	0.02	U	0.02	0.10
208-96-8	Acenaphthylene	1	0.01	U	0.01	0.10
83-32-9	Acenaphthene	1	0.08	I	0.02	0.10
86-73-7	Fluorene	1	0.15		0.02	0.10
85-01-8	Phenanthrene	1	0.02	U	0.02	0.10
120-12-7	Anthracene	1	0.02	U	0.02	0.10
206-44-0	Fluoranthene	1	0.01	U	0.01	0.10
129-00-0	Pyrene	1	0.02	U	0.02	0.10
218-01-9	Chrysene	1	0.02	U	0.02	0.10

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
p-Terphenyl	5.00	3.57	71	10 - 167	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	582909	3.4	578688	3.4	
Acenaphthene-d10	368598	5.12	362264	5.12	
Phenanthrene-d10	642012	6.61	624901	6.61	
Chrysene-d12	780454	9.13	745777	9.13	
Perylene-d12	814615	10.46	795545	10.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

CEF-81-EB01-02

Laboratory:	ENCO Jacksonville			SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)			Project:	NAS Cecil Field CTO #0025
Matrix:	Water	Laboratory ID:	B610171-07	File ID:	5KY044.D
Sampled:	11/22/06 12:20	Prepared:	11/28/06 10:17	Analyzed:	11/30/06 23:51
Solids:		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

Batch: 6K28001 Sequence: BA00079 Calibration: 0611002 Instrument: JSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
56-55-3	Benzo(a)anthracene	1	0.01	U	0.01	0.10
205-99-2	Benzo(b)fluoranthene	1	0.03	U	0.03	0.10
207-08-9	Benzo(k)fluoranthene	1	0.02	U	0.02	0.10
191-24-2	Benzo(g,h,i)perylene	1	0.03	U	0.03	0.10
50-32-8	Benzo(a)pyrene	1	0.01	U	0.01	0.10
53-70-3	Dibenzo(a,h)anthracene	1	0.02	U	0.02	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.02	U	0.02	0.10
91-20-3	Naphthalene	1	0.02	U	0.02	0.10
91-57-6	2-Methylnaphthalene	1	0.02	U	0.02	0.10
90-12-0	1-Methylnaphthalene	1	0.02	U	0.02	0.10
208-96-8	Acenaphthylene	1	0.01	U	0.01	0.10
83-32-9	Acenaphthene	1	0.02	U	0.02	0.10
86-73-7	Fluorene	1	0.02	U	0.02	0.10
85-01-8	Phenanthrene	1	0.02	U	0.02	0.10
120-12-7	Anthracene	1	0.02	U	0.02	0.10
206-44-0	Fluoranthene	1	0.01	U	0.01	0.10
129-00-0	Pyrene	1	0.02	U	0.02	0.10
218-01-9	Chrysene	1	0.02	U	0.02	0.10

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
p-Terphenyl	5.00	3.77	75	10 - 167	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	543746	3.4	578688	3.4	
Acenaphthene-d10	345930	5.12	362264	5.12	
Phenanthrene-d10	606415	6.61	624901	6.61	
Chrysene-d12	729230	9.13	745777	9.13	
Perylene-d12	759658	10.46	795545	10.46	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8270C

CEF-81-DUP01-02

Laboratory:	ENCO Jacksonville			SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)			Project:	NAS Cecil Field CTO #0025
Matrix:	Water	Laboratory ID:	B610171-08	File ID:	5KY045.D
Sampled:	11/22/06 00:00	Prepared:	11/28/06 10:17	Analyzed:	12/01/06 00:09
Solids.		Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

Batch: 6K28001 Sequence: BA00079 Calibration: 0611002 Instrument: JSVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
56-55-3	Benzo(a)anthracene	1	0.01	U	0.01	0.10
205-99-2	Benzo(b)fluoranthene	1	0.03	U	0.03	0.10
207-08-9	Benzo(k)fluoranthene	1	0.02	U	0.02	0.10
191-24-2	Benzo(g,h,i)perylene	1	0.03	U	0.03	0.10
50-32-8	Benzo(a)pyrene	1	0.01	U	0.01	0.10
53-70-3	Dibenzo(a,h)anthracene	1	0.02	U	0.02	0.10
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.02	U	0.02	0.10
91-20-3	Naphthalene	1	0.29		0.02	0.10
91-57-6	2-Methylnaphthalene	1	0.02	U	0.02	0.10
90-12-0	1-Methylnaphthalene	1	0.08	I	0.02	0.10
208-96-8	Acenaphthylene	1	0.01	U	0.01	0.10
83-32-9	Acenaphthene	1	0.18		0.02	0.10
86-73-7	Fluorene	1	0.27		0.02	0.10
85-01-8	Phenanthrene	1	0.02	U	0.02	0.10
120-12-7	Anthracene	1	0.02	U	0.02	0.10
206-44-0	Fluoranthene	1	0.01	U	0.01	0.10
129-00-0	Pyrene	1	0.02	U	0.02	0.10
218-01-9	Chrysene	1	0.02	U	0.02	0.10

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
p-Terphenyl	5.00	3.79	76	10 - 167	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Naphthalene-d8	620346	3.4	578688	3.4	
Acenaphthene-d10	392302	5.12	362264	5.12	
Phenanthrene-d10	685464	6.61	624901	6.61	
Chrysene-d12	842256	9.13	745777	9.13	
Perylene-d12	890281	10.46	795545	10.46	

* Values outside of QC limits

METHOD BLANK DATA SHEET
EPA 8270C

Laboratory:	ENCO Jacksonville			SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)			Project:	NAS Cecil Field CTO #0025
Matrix:	Water	Laboratory ID:	6K28001-BLK1	File ID:	5KY033.D
Prepared:	11/28/06 10:17	Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL
Analyzed:	11/30/06 20:37	Instrument:	JSVGCMS1		
Batch:	6K28001	Sequence:	BA00079	Calibration:	0611002

CAS NO.	COMPOUND	CONC. (ug/L)	Q
56-55-3	Benzo(a)anthracene	0.01	U
205-99-2	Benzo(b)fluoranthene	0.03	U
207-08-9	Benzo(k)fluoranthene	0.02	U
191-24-2	Benzo(g,h,i)perylene	0.03	U
50-32-8	Benzo(a)pyrene	0.01	U
53-70-3	Dibenzo(a,h)anthracene	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.02	U
91-20-3	Naphthalene	0.02	U
91-57-6	2-Methylnaphthalene	0.02	U
90-12-0	1-Methylnaphthalene	0.02	U
208-96-8	Acenaphthylene	0.01	U
83-32-9	Acenaphthene	0.02	U
86-73-7	Fluorene	0.02	U
85-01-8	Phenanthrene	0.02	U
120-12-7	Anthracene	0.02	U
206-44-0	Fluoranthene	0.01	U
129-00-0	Pyrene	0.02	U
218-01-9	Chrysene	0.02	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
p-Terphenyl	5.00	4.51	90	10 - 167	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270C

MW-1

Laboratory: ENCO Jacksonville
SDG: BR006-002
Client: Tetra Tech NUS (BR006)
Project: NAS Cecil Field CTO #0025
Matrix: Water
Batch: 6K28001
Laboratory ID: 6K28001-MS1
Preparation: EPA 3510C_MS
Initial/Final: 500 mL / 0.5 mL
Source Sample Name: MW-1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Benzo(a)anthracene	2.00	ND	1.43	72	40 - 108
Benzo(b)fluoranthene	2.00	ND	1.40	70	45 - 125
Benzo(k)fluoranthene	2.00	ND	1.51	76	45 - 125
Benzo(g,h,i)perylene	2.00	ND	1.34	67	19 - 118
Benzo(a)pyrene	2.00	ND	1.39	70	33 - 108
Dibenzo(a,h)anthracene	2.00	ND	1.63	82	30 - 109
Indeno(1,2,3-cd)pyrene	2.00	ND	1.56	78	33 - 112
Naphthalene	2.00	ND	1.32	66	33 - 100
2-Methylnaphthalene	2.00	ND	1.32	66	36 - 98
1-Methylnaphthalene	2.00	ND	1.30	65	34 - 95
Acenaphthylene	2.00	ND	1.30	65	37 - 103
Acenaphthene	2.00	ND	1.29	64	36 - 100
Fluorene	2.00	ND	1.30	65	39 - 104
Phenanthrene	2.00	ND	1.32	66	38 - 104
Anthracene	2.00	ND	1.34	67	36 - 109
Fluoranthene	2.00	ND	1.63	82	40 - 119
Pyrene	2.00	ND	1.59	80	38 - 116
Chrysene	2.00	ND	1.41	70	39 - 112

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzo(a)anthracene	2.00	1.44	72	0.7	22	40 - 108
Benzo(b)fluoranthene	2.00	1.38	69	1	200	45 - 125
Benzo(k)fluoranthene	2.00	1.55	78	3	200	45 - 125
Benzo(g,h,i)perylene	2.00	1.32	66	2	27	19 - 118
Benzo(a)pyrene	2.00	1.39	70	0	23	33 - 108
Dibenzo(a,h)anthracene	2.00	1.58	79	3	32	30 - 109
Indeno(1,2,3-cd)pyrene	2.00	1.53	76	2	22	33 - 112
Naphthalene	2.00	1.33	66	0.8	27	33 - 100
2-Methylnaphthalene	2.00	1.34	67	2	33	36 - 98
1-Methylnaphthalene	2.00	1.30	65	0	29	34 - 95

LCS / LCS DUPLICATE RECOVERY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)	Project:	NAS Cecil Field CTO #0025
Matrix:	Water		
Batch:	6K28001	Laboratory ID:	6K28001-BS1
Preparation:	EPA 3510C_MS	Initial/Final:	500 mL / 0.5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Benzo(a)anthracene	2.00	1.38	69	40 - 108
Benzo(b)fluoranthene	2.00	1.30	65	45 - 125
Benzo(k)fluoranthene	2.00	1.54	77	45 - 125
Benzo(g,h,i)perylene	2.00	1.33	66	19 - 118
Benzo(a)pyrene	2.00	1.34	67	33 - 108
Dibenzo(a,h)anthracene	2.00	1.63	82	30 - 109
Indeno(1,2,3-cd)pyrene	2.00	1.54	77	33 - 112
Naphthalene	2.00	1.29	64	33 - 100
2-Methylnaphthalene	2.00	1.28	64	36 - 98
1-Methylnaphthalene	2.00	1.26	63	34 - 95
Acenaphthylene	2.00	1.27	64	37 - 103
Acenaphthene	2.00	1.26	63	36 - 100
Fluorene	2.00	1.30	65	39 - 104
Phenanthrene	2.00	1.29	64	38 - 104
Anthracene	2.00	1.31	66	36 - 109
Fluoranthene	2.00	1.58	79	40 - 119
Pyrene	2.00	1.55	78	38 - 116
Chrysene	2.00	1.37	68	39 - 112

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)	Project:	NAS Cecil Field CTO #0025
Lab File ID:	5KY031.D	Injection Date:	11/30/06
Instrument ID:	JSVGCMS1	Injection Time:	20:06
Sequence:	BA00079	Lab Sample ID:	BA00079-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	30.8	PASS
68	Less than 2% of 69	2.22	PASS
69	Less than 101% of 198	33.4	PASS
70	Less than 2% of 69	0.561	PASS
127	40 - 60% of 198	40.4	PASS
197	Less than 1% of 198	0.164	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.81	PASS
275	10 - 30% of 198	26	PASS
365	1 - 100% of 198	2.62	PASS
443	17 - 23% of 442	21.4	PASS
441	0.01 - 100% of 443	72.4	PASS
442	40 - 100% of 198	57.8	PASS

CONTINUING CALIBRATION CHECK
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)	Project:	NAS Cecil Field CTO #0025
Instrument ID:	JSVGCMS1	Calibration:	0611002
Lab File ID:	5KY032.D	Calibration Date:	11/03/06 12:07
Sequence:	BA00079	Injection Date:	11/30/06
Lab Sample ID:	BA00079-CCV1	Injection Time:	20:20

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzo(a)anthracene	A	5.00	4.93	1.336539	1.31836		-1.4	20
Benzo(b)fluoranthene	A	5.00	4.81	1.274589	1.22635		-3.8	20
Benzo(k)fluoranthene	A	5.00	5.38	1.253636	1.34994		7.7	20
Benzo(g,h,i)perylene	Q	5.00	4.94	0.9954671	1.05061		-1.2	20
Benzo(a)pyrene	A	5.00	5.38	1.114666	1.20022		7.7	20
Dibenzo(a,h)anthracene	Q	5.00	5.74	0.7845777	1.03059		14.8	20
Indeno(1,2,3-cd)pyrene	Q	5.00	5.40	1.029947	1.24407		8.0	20
Naphthalene	A	5.00	4.93	1.013037	0.998898		-1.4	20
2-Methylnaphthalene	A	5.00	5.01	0.6524046	0.65334		0.1	20
1-Methylnaphthalene	A	5.00	5.05	0.6683416	0.67501		1.0	20
Acenaphthylene	A	5.00	5.04	1.766505	1.78167		0.9	20
Acenaphthene	A	5.00	4.86	1.058663	1.02962		-2.7	20
Fluorene	A	5.00	5.05	1.317465	1.32957		0.9	20
Phenanthrene	A	5.00	4.81	1.180859	1.13676		-3.7	20
Anthracene	A	5.00	4.92	1.170055	1.15204		-1.5	20
Fluoranthene	A	5.00	5.49	1.288244	1.41476		9.8	20
Pyrene	A	5.00	5.56	1.375229	1.52985		11.2	20
Chrysene	A	5.00	4.80	1.369962	1.315		-4.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)	Project:	NAS Cecil Field CTO #0025
Sequence:	BA00079	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0611002

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (BA00079-CCV1)			Lab File ID: 5KY032.D		Analyzed: 11/30/06 20:20			
p-Terphenyl	5.00	117	10 - 167	8.15	8.2	-0.0500	+/-1.0	
Blank (6K28001-BLK1)			Lab File ID: 5KY033.D		Analyzed: 11/30/06 20:37			
p-Terphenyl	5.00	90	10 - 167	8.15	8.2	-0.0500	+/-1.0	
LCS (6K28001-BS1)			Lab File ID: 5KY034.D		Analyzed: 11/30/06 20:55			
p-Terphenyl	5.00	82	10 - 167	8.15	8.2	-0.0500	+/-1.0	
Matrix Spike (6K28001-MS1)			Lab File ID: 5KY035.D		Analyzed: 11/30/06 21:13			
p-Terphenyl	5.00	84	10 - 167	8.15	8.2	-0.0500	+/-1.0	
Matrix Spike Dup (6K28001-MSD1)			Lab File ID: 5KY036.D		Analyzed: 11/30/06 21:30			
p-Terphenyl	5.00	82	10 - 167	8.15	8.2	-0.0500	+/-1.0	
CEF-81-15S-02 (B610171-01)			Lab File ID: 5KY038.D		Analyzed: 11/30/06 22:05			
p-Terphenyl	5.00	79	10 - 167	8.15	8.2	-0.0500	+/-1.0	
CEF-81-17S-02 (B610171-02)			Lab File ID: 5KY039.D		Analyzed: 11/30/06 22:23			
p-Terphenyl	5.00	79	10 - 167	8.15	8.2	-0.0500	+/-1.0	
CEF-81-16S-02 (B610171-03)			Lab File ID: 5KY040.D		Analyzed: 11/30/06 22:41			
p-Terphenyl	5.00	83	10 - 167	8.15	8.2	-0.0500	+/-1.0	
CEF-81-18I-02 (B610171-04)			Lab File ID: 5KY041.D		Analyzed: 11/30/06 22:58			
p-Terphenyl	5.00	69	10 - 167	8.15	8.2	-0.0500	+/-1.0	
CEF-81-19I-02 (B610171-05)			Lab File ID: 5KY042.D		Analyzed: 11/30/06 23:16			
p-Terphenyl	5.00	77	10 - 167	8.15	8.2	-0.0500	+/-1.0	
CEF-81-20I-02 (B610171-06)			Lab File ID: 5KY043.D		Analyzed: 11/30/06 23:33			
p-Terphenyl	5.00	71	10 - 167	8.15	8.2	-0.0500	+/-1.0	
CEF-81-EB01-02 (B610171-07)			Lab File ID: 5KY044.D		Analyzed: 11/30/06 23:51			
p-Terphenyl	5.00	75	10 - 167	8.15	8.2	-0.0500	+/-1.0	
CEF-81-DUP01-02 (B610171-08)			Lab File ID: 5KY045.D		Analyzed: 12/01/06 00:09			
p-Terphenyl	5.00	76	10 - 167	8.15	8.2	-0.0500	+/-1.0	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)	Project:	NAS Cecil Field CTO #0025
Sequence:	BA00079	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0611002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
CEF-81-15S-02 (B610171-01)			Lab File ID: 5KY038.D			Analyzed: 11/30/06 22:05			
Naphthalene-d8	501820	3.4	578688	3.4	87	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	317315	5.12	362264	5.12	88	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	548783	6.61	624901	6.61	88	50 - 200	0.0000	+/-0.50	
Chrysene-d12	686327	9.13	745777	9.13	92	50 - 200	0.0000	+/-0.50	
Perylene-d12	719262	10.46	795545	10.46	90	50 - 200	0.0000	+/-0.50	
CEF-81-17S-02 (B610171-02)			Lab File ID: 5KY039.D			Analyzed: 11/30/06 22:23			
Naphthalene-d8	511285	3.4	578688	3.4	88	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	320520	5.12	362264	5.12	88	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	539208	6.61	624901	6.61	86	50 - 200	0.0000	+/-0.50	
Chrysene-d12	680123	9.13	745777	9.13	91	50 - 200	0.0000	+/-0.50	
Perylene-d12	704558	10.46	795545	10.46	89	50 - 200	0.0000	+/-0.50	
CEF-81-16S-02 (B610171-03)			Lab File ID: 5KY040.D			Analyzed: 11/30/06 22:41			
Naphthalene-d8	607978	3.4	578688	3.4	105	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	382936	5.12	362264	5.12	106	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	648014	6.61	624901	6.61	104	50 - 200	0.0000	+/-0.50	
Chrysene-d12	815239	9.13	745777	9.13	109	50 - 200	0.0000	+/-0.50	
Perylene-d12	851489	10.46	795545	10.46	107	50 - 200	0.0000	+/-0.50	
CEF-81-18I-02 (B610171-04)			Lab File ID: 5KY041.D			Analyzed: 11/30/06 22:58			
Naphthalene-d8	607592	3.4	578688	3.4	105	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	394096	5.12	362264	5.12	109	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	708458	6.61	624901	6.61	113	50 - 200	0.0000	+/-0.50	
Chrysene-d12	854890	9.13	745777	9.13	115	50 - 200	0.0000	+/-0.50	
Perylene-d12	892138	10.46	795545	10.46	112	50 - 200	0.0000	+/-0.50	
CEF-81-19I-02 (B610171-05)			Lab File ID: 5KY042.D			Analyzed: 11/30/06 23:16			
Naphthalene-d8	548656	3.4	578688	3.4	95	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	346724	5.12	362264	5.12	96	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	608960	6.61	624901	6.61	97	50 - 200	0.0000	+/-0.50	
Chrysene-d12	730150	9.13	745777	9.13	98	50 - 200	0.0000	+/-0.50	
Perylene-d12	761706	10.46	795545	10.46	96	50 - 200	0.0000	+/-0.50	
CEF-81-20I-02 (B610171-06)			Lab File ID: 5KY043.D			Analyzed: 11/30/06 23:33			
Naphthalene-d8	582909	3.4	578688	3.4	101	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	368598	5.12	362264	5.12	102	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	642012	6.61	624901	6.61	103	50 - 200	0.0000	+/-0.50	
Chrysene-d12	780454	9.13	745777	9.13	105	50 - 200	0.0000	+/-0.50	
Perylene-d12	814615	10.46	795545	10.46	102	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)	Project:	NAS Cecil Field CTO #0025
Sequence:	BA00079	Instrument:	JSVGCMS1
Matrix:	Water	Calibration:	0611002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
CEF-81-EB01-02 (B610171-07)			Lab File ID: 5KY044.D			Analyzed: 11/30/06 23:51			
Naphthalene-d8	543746	3.4	578688	3.4	94	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	345930	5.12	362264	5.12	95	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	606415	6.61	624901	6.61	97	50 - 200	0.0000	+/-0.50	
Chrysene-d12	729230	9.13	745777	9.13	98	50 - 200	0.0000	+/-0.50	
Perylene-d12	759658	10.46	795545	10.46	95	50 - 200	0.0000	+/-0.50	
CEF-81-DUP01-02 (B610171-08)			Lab File ID: 5KY045.D			Analyzed: 12/01/06 00:09			
Naphthalene-d8	620346	3.4	578688	3.4	107	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	392302	5.12	362264	5.12	108	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	685464	6.61	624901	6.61	110	50 - 200	0.0000	+/-0.50	
Chrysene-d12	842256	9.13	745777	9.13	113	50 - 200	0.0000	+/-0.50	
Perylene-d12	890281	10.46	795545	10.46	112	50 - 200	0.0000	+/-0.50	

INITIAL CALIBRATION STANDARDS

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)	Project:	NAS Cecil Field CTO #0025
Sequence:	BA00053	Instrument:	JSVGCMS1
Calibration:	0611002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B6J0159	8270/sim Curve - .1ppm curve std	BA00053-CAL1	5K1110.D	11/03/06 11:29
B6J0158	8270/sim Curve - .5ppm curve std	BA00053-CAL2	5K1111.D	11/03/06 11:47
B6J0157	8270/sim Curve - 2ppm curve std	BA00053-CAL3	5K1112.D	11/03/06 12:04
B6J0156	8270/sim Curve - 5ppm curve std	BA00053-CAL4	5K1113.D	11/03/06 12:22
B6J0155	8270/sim Curve - 10ppm curve std	BA00053-CAL5	5K1114.D	11/03/06 12:39
B6J0154	8270/sim Curve - 25ppm curve std	BA00053-CAL6	5K1115.D	11/03/06 12:57

INITIAL CALIBRATION DATA

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)	Project:	NAS Cecil Field CTO #0025
Calibration:	0611002	Instrument:	JSVGCMS1
Matrix:	Water	Calibration Date:	11/03/06 12:07

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Benzo(a)anthracene	0.1	1.13722	0.5	1.261436	2	1.288286	5	1.316636	10	1.324863	25	1.363778
Benzo(b)fluoranthene	0.1	1.128405	0.5	1.178724	2	1.280802	5	1.315811	10	1.345776	25	1.398315
Benzo(k)fluoranthene	0.1	1.149325	0.5	1.232916	2	1.245269	5	1.32951	10	1.256204	25	1.308594
Benzo(g,h,i)perylene	0.1	0.810921	0.5	0.8385466	2	0.9410443	5	1.075442	10	1.104552	25	1.202297
Benzo(a)pyrene	0.1	0.8926095	0.5	0.9921559	2	1.102879	5	1.205589	10	1.206629	25	1.288136
Dibenzo(a,h)anthracene	0.1	0.4861088	0.5	0.5466406	2	0.7039425	5	0.8889994	10	0.967109	25	1.114666
Indeno(1,2,3-cd)pyrene	0.1	0.7099546	0.5	0.7858066	2	0.9563925	5	1.149241	10	1.216151	25	1.362135
Naphthalene	0.1	0.9637746	0.5	1.022203	2	1.016116	5	1.039172	10	1.006937	25	1.028332
2-Methylnaphthalene	0.1	0.5923623	0.5	0.643748	2	0.6588826	5	0.6720783	10	0.6612629	25	0.6860932
1-Methylnaphthalene	0.1	0.61173	0.5	0.6614387	2	0.6723338	5	0.6886026	10	0.6733567	25	0.7025877
Acenaphthylene	0.1	1.478917	0.5	1.68468	2	1.787606	5	1.870376	10	1.842408	25	1.935044
Acenaphthene	0.1	0.9737914	0.5	1.049197	2	1.070303	5	1.084426	10	1.062344	25	1.111917
Fluorene	0.1	1.148795	0.5	1.266513	2	1.33721	5	1.379055	10	1.348779	25	1.42449
Phenanthrene	0.1	1.139832	0.5	1.177816	2	1.177563	5	1.197632	10	1.174879	25	1.217432
Anthracene	0.1	1.062303	0.5	1.146179	2	1.170285	5	1.207204	10	1.193462	25	1.210616
Fluoranthene	0.1	1.153613	0.5	1.262362	2	1.310071	5	1.355737	10	1.31217	25	1.335514
Pyrene	0.1	1.250357	0.5	1.355788	2	1.405061	5	1.440377	10	1.394788	25	1.405002
Chrysene	0.1	1.349536	0.5	1.393726	2	1.388592	5	1.395292	10	1.351452	25	1.341171
p-Terphenyl	0.1	1.006845	0.5	1.133045	2	1.190931	5	1.238683	10	1.205504	25	1.222632

INITIAL CALIBRATION DATA (Continued)

EPA 8270C

Laboratory:	ENCO Jacksonville	SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)	Project:	NAS Cecil Field CTO #0025
Calibration:	0611002	Instrument:	JSVGCMS1
Matrix:	Water	Calibration Date:	11/03/06 12:07

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzo(a)anthracene	1.336539	4.558248	9.17	2.296036E-02			15	
Benzo(b)fluoranthene	1.274589	8.059385	10.14333	5.331801E-02			15	
Benzo(k)fluoranthene	1.253636	5.06559	10.17167	4.074177E-02			15	
Benzo(g,h,i)perylene	0.9954671	15.73769	12.015	7.126494E-02		0.999936	0.99	
Benzo(a)pyrene	1.114666	13.38335	10.45167	4.227749E-02			15	
Dibenzo(a,h)anthracene	0.7845777	31.49917	11.68	0.1095802		0.9997564	0.99	
Indeno(1,2,3-cd)pyrene	1.029947	24.817	11.66833	6.552965E-02		0.9998665	0.99	
Naphthalene	1.013037	2.613495	3.49	1.920615E-02			15	
2-Methylnaphthalene	0.6524046	5.000957	4.15	2.564839E-02			15	
1-Methylnaphthalene	0.6683416	4.672939	4.25	0			15	
Acenaphthylene	1.766505	9.295024	5.043333	0.1031993			15	
Acenaphthene	1.058663	4.418736	5.211667	7.784887E-02			CCC (20)	
Fluorene	1.317465	7.410646	5.73	0.0169102			15	
Phenanthrene	1.180859	2.194655	6.69	1.689563E-02			15	
Anthracene	1.170055	5.27922	6.74	5.887622E-03			15	
Fluoranthene	1.288244	5.665455	7.846667	6.511173E-02			15	
Pyrene	1.375229	4.864219	8.06	1.375235E-02			15	
Chrysene	1.369962	1.829834	9.201667	4.894991E-02			15	
p-Terphenyl	1.166273	7.384683	8.2	1.330434E-02			15	

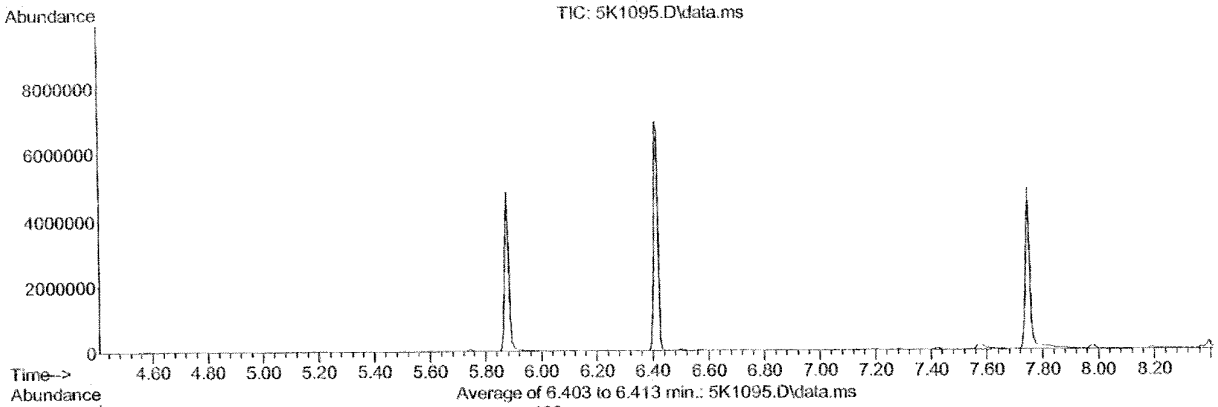
SEMIVOLATILES CALIBRATION DATA

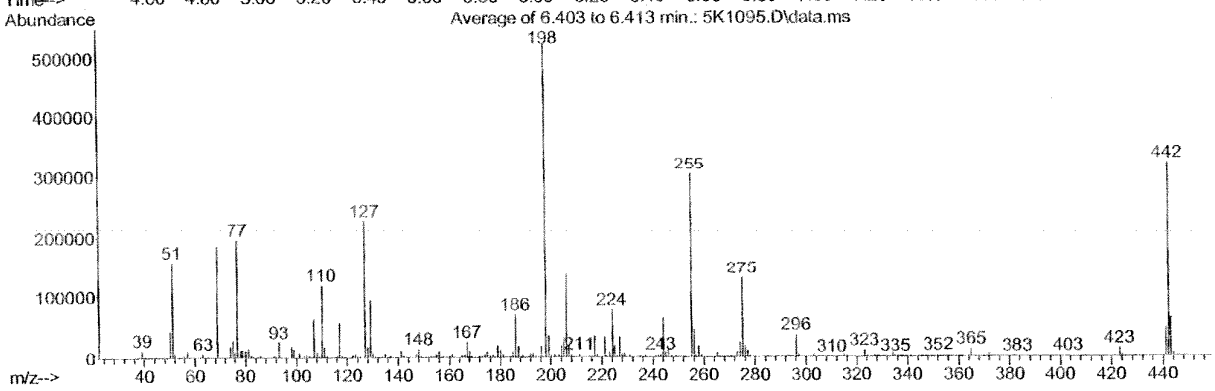
DFTPP

Data Path : C:\msdchem\1\DATA\5K1\
Data File : 5K1095.D
Acq On : 3 Nov 2006 6:00
Operator : jj
Sample : BA00053-TUN1
Misc :
ALS Vial : 68 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\METHODS\DFTPP.M
Title : 625/8270 Tune Method
Last Update : Thu Nov 02 11:47:54 2006





Spectrum Information: Average of 6.403 to 6.413 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	30.3	158045	PASS
68	69	0.00	2	1.1	2067	PASS
69	198	0.00	100	35.5	185168	PASS
70	69	0.00	2	0.4	766	PASS
127	198	40	60	43.3	226317	PASS
197	198	0.00	1	0.4	2079	PASS
198	198	100	100	100.0	522197	PASS
199	198	5	9	6.7	34854	PASS
275	198	10	30	24.7	128792	PASS
365	198	1	100	2.5	13313	PASS
441	443	0.01	100	75.1	47629	PASS
442	198	40	100	61.4	320856	PASS
443	442	17	23	19.8	63405	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5K1\
InstName : JSVGCMS1
Data File : 5K1110.D
Acq On : 3 Nov 2006 11:29
Operator : jj
Sample : BA00053-CAL1
Misc : B6J0159
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 03 13:19:24 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5JY.M
Quant Title : 8270/PAH/SIM curve SIM-5JY on 10/30/06 (25ug/mL)
QLast Update : Fri Nov 03 09:17:40 2006
Response via : Initial Calibration

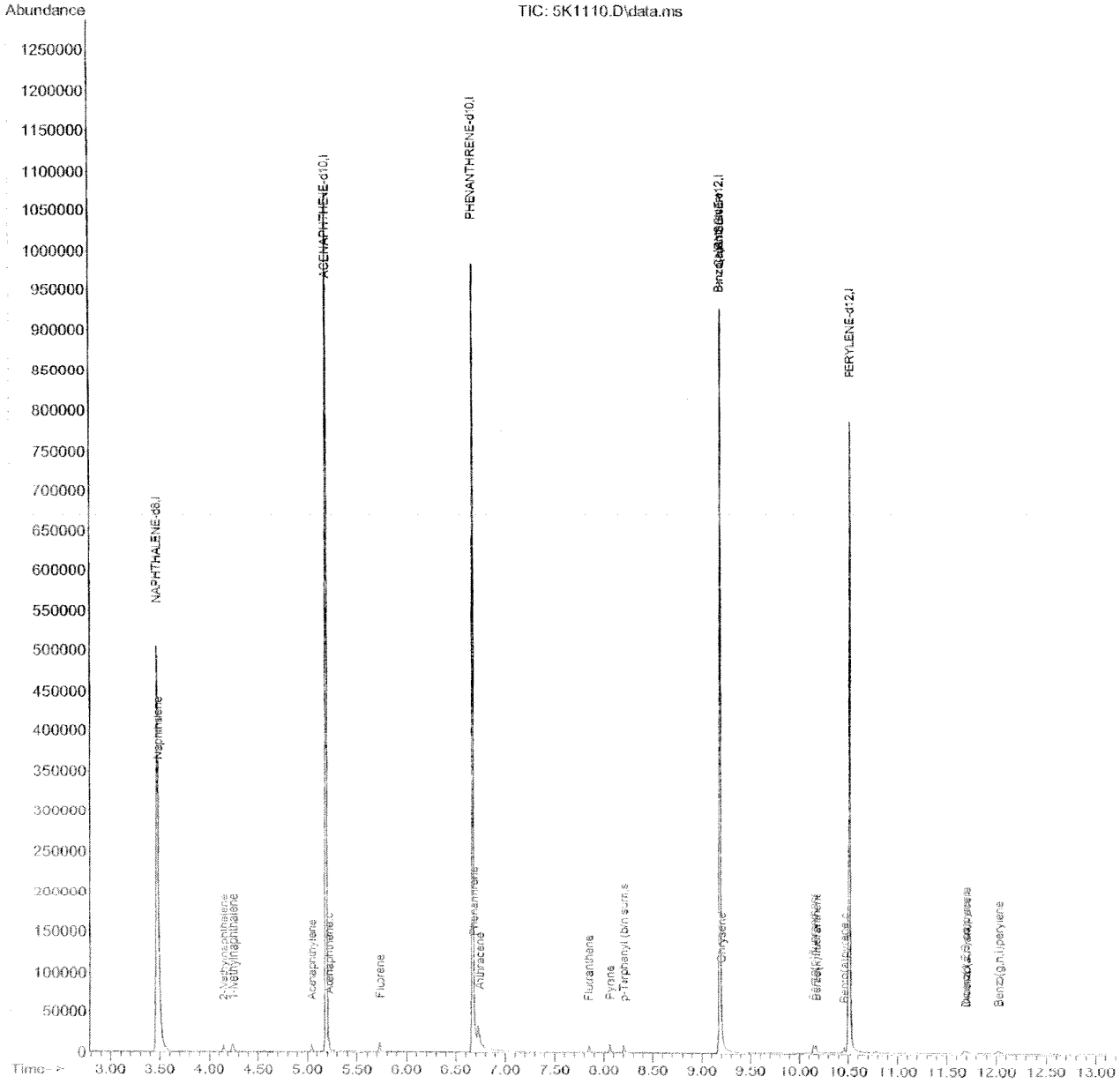
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) NAPHTHALENE-d8	3.47	136	758995	10.00 ug/mL	0.00
5) ACENAPHTHENE-d10	5.18	164	452561	10.00 ug/mL	0.00
9) PHENANTHRENE-d10	6.67	188	725633	10.00 ug/mL	0.00
16) CHRYSENE d12	9.18	240	741392	10.00 ug/mL	0.00
19) PERYLENE-d12	10.51	264	721032	10.00 ug/mL	0.00
System Monitoring Compounds					
14) p-Terphenyl (b/n surr)	8.20	230	7306	0.08 ug/mL	0.00
Spiked Amount 5.000			Recovery =	1.60%	
Target Compounds					Qvalue
2) Naphthalene	3.49	128	7315	0.09 ug/mL	99
3) 2-Methylnaphthalene	4.15	142	4496	0.09 ug/mL	97
4) 1-Methylnaphthalene	4.25	142	4643	0.09 ug/mL	98
6) Acenaphthylene	5.04	152	6693	0.08 ug/mL	99
7) Acenaphthene	5.21	154	4407	0.09 ug/mL	100
8) Fluorene	5.73	166	5199	0.08 ug/mL	99
10) Phenanthrene	6.69	178	8271	0.10 ug/mL	98
11) Anthracene	6.74	178	7709	0.09 ug/mL	97
12) Fluoranthene	7.85	202	8371	0.09 ug/mL	94
13) Pyrene	8.06	202	9073	0.09 ug/mL	92
15) p-Terphenyl	8.20	230	7306	0.08 ug/mL	97
17) Benzo(a)anthracene	9.17	228	10654	0.11 ug/mL	93
18) Chrysene	9.20	228	10004	0.10 ug/mL	99
20) Benzo(b)fluoranthene	10.14	252	8134	0.09 ug/mL	97
21) Benzo(k)fluoranthene	10.17	252	8287m	0.08 ug/mL	
22) Benzo(a)pyrene	10.45	252	6436	0.08 ug/mL	91
23) Indeno(1,2,3-cd)pyrene	11.67	276	5119	0.25 ug/mL	95
24) Dibenzo(a,h)anthracene	11.70	278	3505m	0.26 ug/mL	
25) Benzo(g,h,i)perylene	12.02	276	5847m	0.24 ug/mL	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5K1\
InstName : JSVGCMS1
Data File : 5K1110.D
Acq On : 3 Nov 2006 11:29
Operator : jj
Sample : BA00053-CAL1
Misc : B6J0159
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 03 13:19:24 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5JY.M
Quant Title : 8270/PAH/SIM curve SIM-5JY on 10/30/06 (25ug/mL)
QLast Update : Fri Nov 03 09:17:40 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5K1\
InstName : JSVGCMS1
Data File : 5K1111.D
Acq On : 3 Nov 2006 11:47
Operator : jj
Sample : BA00053-CAL2
Misc : B6J0158
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 03 13:19:47 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5JY.M
Quant Title : 8270/PAH/SIM curve SIM-5JY on 10/30/06 (25ug/mL)
QLast Update : Fri Nov 03 09:17:40 2006
Response via : Initial Calibration

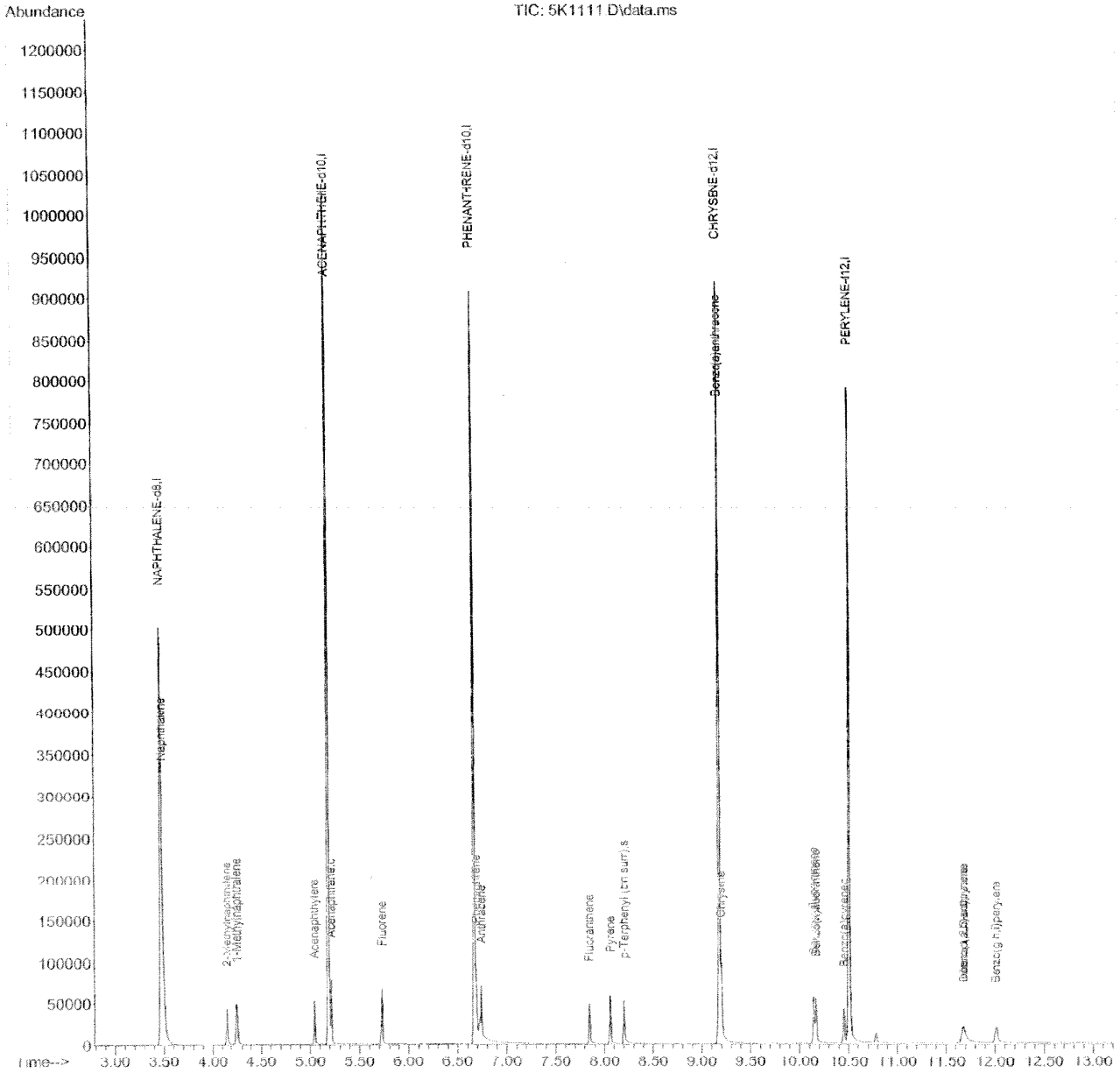
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) NAPHTHALENE-d8	3.47	136	723544	10.00 ug/mL	0.00
5) ACENAPHTHENE-d10	5.18	164	431168	10.00 ug/mL	0.00
9) PHENANTHRENE-d10	6.67	188	700449	10.00 ug/mL	0.00
16) CHRYSENE-d12	9.18	240	718850	10.00 ug/mL	0.00
19) PERYLENE-d12	10.50	264	702692	10.00 ug/mL	0.00
System Monitoring Compounds					
14) p-Terphenyl (b/n surr)	8.20	230	39682	0.46 ug/mL	0.00
Spiked Amount 5.000			Recovery	= 9.20%	
Target Compounds					Qvalue
2) Naphthalene	3.49	128	36984	0.49 ug/mL	100
3) 2-Methylnaphthalene	4.15	142	23289	0.50 ug/mL	97
4) 1-Methylnaphthalene	4.25	142	23929	0.47 ug/mL	97
6) Acenaphthylene	5.04	152	36319	0.48 ug/mL	99
7) Acenaphthene	5.21	154	22619	0.49 ug/mL	100
8) Fluorene	5.73	166	27304	0.47 ug/mL	100
10) Phenanthrene	6.69	178	41250	0.50 ug/mL	98
11) Anthracene	6.74	178	40142	0.47 ug/mL	98
12) Fluoranthene	7.85	202	44211	0.47 ug/mL	95
13) Pyrene	8.06	202	47483	0.47 ug/mL	93
15) p-Terphenyl	8.20	230	39682	0.46 ug/mL	99
17) Benzo(a)anthracene	9.17	228	45447	0.48 ug/mL	98
18) Chrysene	9.20	228	50094	0.49 ug/mL	99
20) Benzo(b)fluoranthene	10.14	252	41414	0.48 ug/mL	98
21) Benzo(k)fluoranthene	10.17	252	43318m	0.43 ug/mL	
22) Benzo(a)pyrene	10.45	252	34859	0.44 ug/mL	95
23) Indeno(1,2,3-cd)pyrene	11.67	276	27609	0.61 ug/mL	96
24) Dibenzo(a,h)anthracene	11.68	278	19206	0.57 ug/mL	97
25) Benzo(g,h,i)perylene	12.01	276	29462	0.68 ug/mL	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5K1\
InstName : JSVGCMS1
Data File : 5K1111.D
Acq On : 3 Nov 2006 11:47
Operator : jj
Sample : BA00053-CAL2
Misc : B6J0158
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 03 13:19:47 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5JY.M
Quant Title : 8270/PAH/SIM curve SIM-5JY on 10/30/06 (25ug/mL)
QLast Update : Fri Nov 03 09:17:40 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5K1\
InstName : JSVGCMS1
Data File : 5K1112.D
Acq On : 3 Nov 2006 12:04
Operator : jj
Sample : BA00053-CAL3
Misc : B6J0157
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 03 13:20:14 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5JY.M
Quant Title : 8270/PAH/SIM curve SIM-5JY on 10/30/06 (25ug/mL)
QLast Update : Fri Nov 03 09:17:40 2006
Response via : Initial Calibration

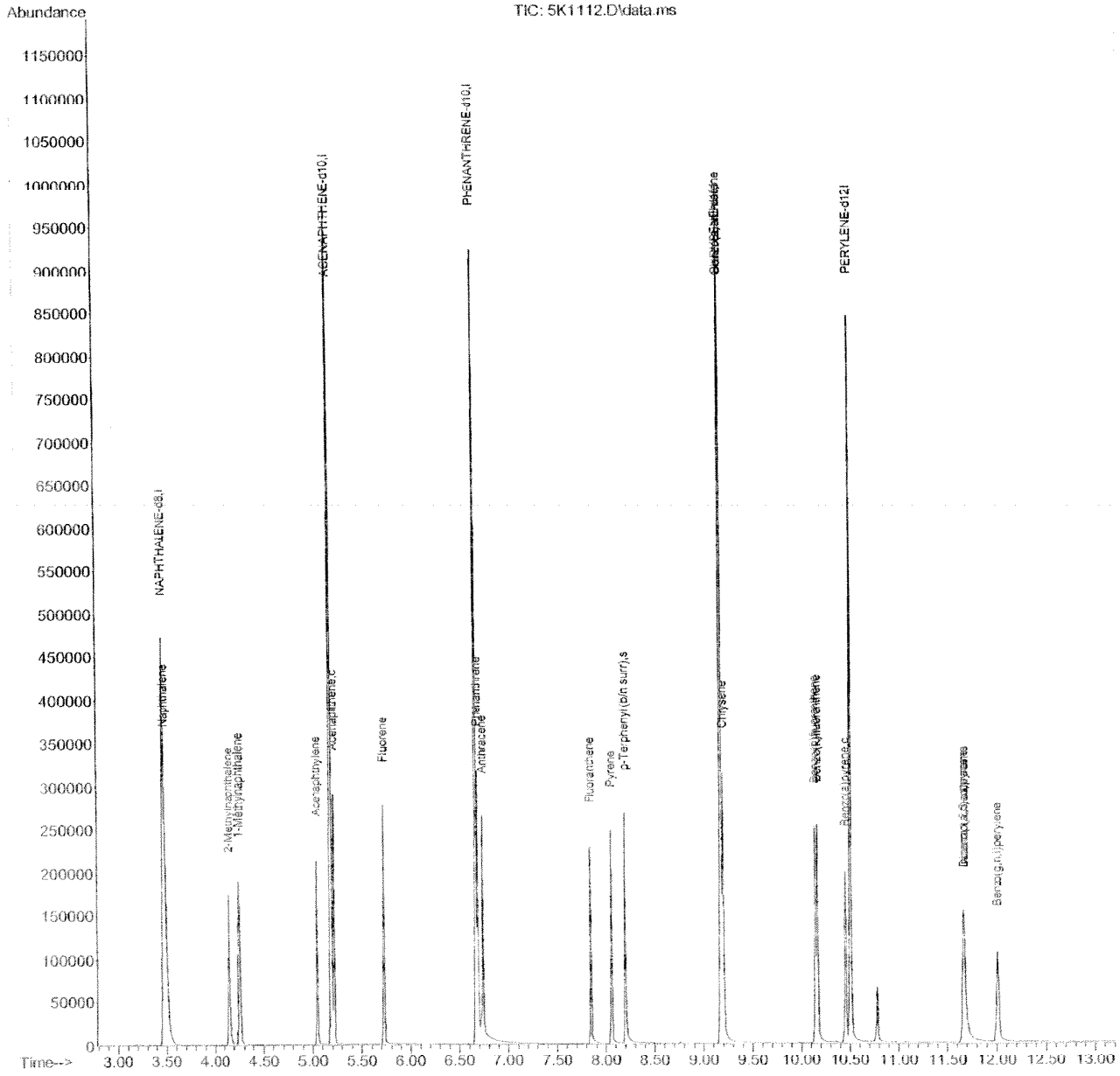
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) NAPHTHALENE-d8	3.47	136	699935	10.00 ug/mL	0.00
5) ACENAPHTHENE-d10	5.18	164	420652	10.00 ug/mL	0.00
9) PHENANTHRENE-d10	6.67	188	693806	10.00 ug/mL	0.00
16) CHRYSENE-d12	9.18	240	719538	10.00 ug/mL	0.00
19) PERYLENE-d12	10.51	264	722559	10.00 ug/mL	0.00
System Monitoring Compounds					
14) p-Terphenyl (b/n surr)	8.20	230	165255	1.91 ug/mL	0.00
Spiked Amount 5.000			Recovery	= 38.20%	
Target Compounds					Qvalue
2) Naphthalene	3.49	128	142285	1.95 ug/mL	100
3) 2-Methylnaphthalene	4.15	142	92235	2.05 ug/mL	97
4) 1-Methylnaphthalene	4.25	142	94118	1.92 ug/mL	97
6) Acenaphthylene	5.04	152	150392	2.02 ug/mL	99
7) Acenaphthene	5.21	154	90045	2.01 ug/mL	99
8) Fluorene	5.73	166	112500	1.97 ug/mL	99
10) Phenanthrene	6.69	178	163400	1.99 ug/mL	99
11) Anthracene	6.74	178	162404	1.91 ug/mL	99
12) Fluoranthene	7.84	202	181787	1.93 ug/mL	94
13) Pyrene	8.06	202	194968	1.95 ug/mL	94
15) p-Terphenyl	8.20	230	165255	1.91 ug/mL	100
17) Benzo(a)anthracene	9.17	228	185396	1.94 ug/mL	99
18) Chrysene	9.20	228	199829	1.97 ug/mL	99
20) Benzo(b)fluoranthene	10.14	252	185091	2.08 ug/mL	98
21) Benzo(k)fluoranthene	10.17	252	179956m	1.75 ug/mL	
22) Benzo(a)pyrene	10.45	252	159379	1.96 ug/mL	96
23) Indeno(1,2,3-cd)pyrene	11.66	276	138210	2.23 ug/mL	96
24) Dibenzo(a,h)anthracene	11.67	278	101728	2.10 ug/mL	97
25) Benzo(g,h,i)perylene	12.01	276	135992	2.50 ug/mL	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5K1\
InstName : JSVGCMS1
Data File : 5K1112.D
Acq On : 3 Nov 2006 12:04
Operator : jj
Sample : BA00053-CAL3
Misc : B6J0157
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 03 13:20:14 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5JY.M
Quant Title : 8270/PAH/SIM curve SIM-5JY on 10/30/06 (25ug/mL)
QLast Update : Fri Nov 03 09:17:40 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5K1\
InstName : JSVGCMS1
Data File : 5K1113.D
Acq On : 3 Nov 2006 12:22
Operator : jj
Sample : BA00053-CAL4
Misc : B6J0156
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 03 13:20:37 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5JY.M
Quant Title : 8270/PAH/SIM curve SIM-5JY on 10/30/06 (25ug/mL)
QLast Update : Fri Nov 03 09:17:40 2006
Response via : Initial Calibration

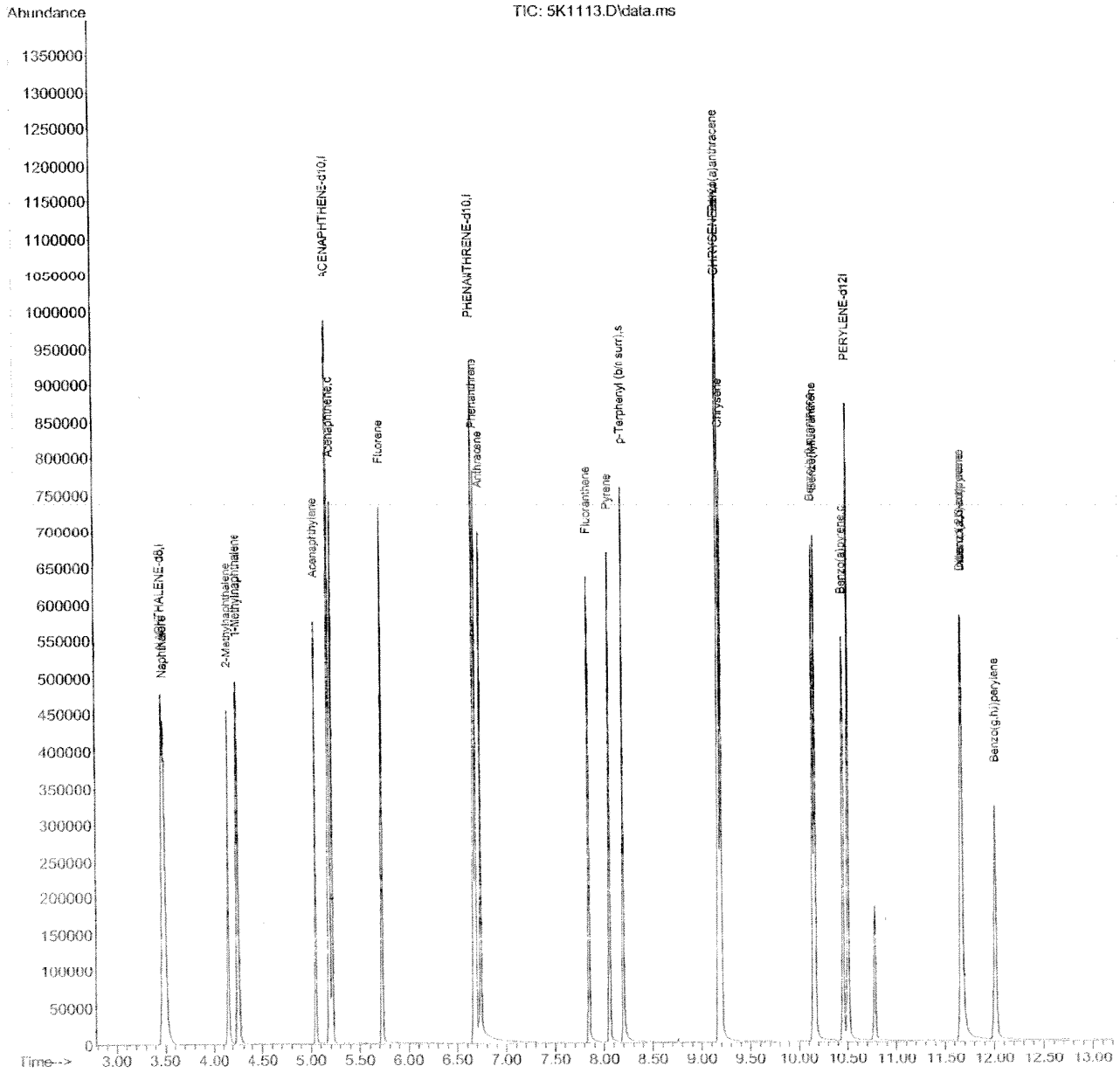
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) NAPHTHALENE-d8	3.47	136	698002	10.00 ug/mL	0.00
5) ACENAPHTHENE-d10	5.18	164	419245	10.00 ug/mL	0.00
9) PHENANTHRENE-d10	6.67	188	696905	10.00 ug/mL	0.00
16) CHRYSENE-d12	9.18	240	723476	10.00 ug/mL	0.00
19) PERYLENE-d12	10.51	264	736077	10.00 ug/mL	0.00
System Monitoring Compounds					
14) p-Terphenyl (b/n surr)	8.20	230	431622	4.98 ug/mL	0.00
Spiked Amount 5.000			Recovery	= 99.60%	
Target Compounds					Qvalue
2) Naphthalene	3.49	128	359636	4.95 ug/mL	100
3) 2-Methylnaphthalene	4.15	142	234556	5.22 ug/mL	97
4) 1-Methylnaphthalene	4.25	142	240323	4.93 ug/mL	97
6) Acenaphthylene	5.04	152	392073	5.30 ug/mL	99
7) Acenaphthene	5.21	154	227320	5.09 ug/mL	99
8) Fluorene	5.73	166	289081	5.08 ug/mL	98
10) Phenanthrene	6.69	178	417318	5.05 ug/mL	99
11) Anthracene	6.74	178	420688	4.94 ug/mL	99
12) Fluoranthene	7.84	202	472410	5.01 ug/mL	95
13) Pyrene	8.06	202	501903	5.01 ug/mL	94
15) p-Terphenyl	8.20	230	431622	4.98 ug/mL	100
17) Benzo(a)anthracene	9.17	228	484960	5.04 ug/mL	100
18) Chrysene	9.20	228	504730	4.95 ug/mL	99
20) Benzo(b)fluoranthene	10.14	252	484269	5.34 ug/mL	97
21) Benzo(k)fluoranthene	10.17	252	489311m	4.66 ug/mL	
22) Benzo(a)pyrene	10.45	252	443703	5.36 ug/mL	96
23) Indeno(1,2,3-cd)pyrene	11.66	276	422965	6.00 ug/mL	96
24) Dibenzo(a,h)anthracene	11.67	278	327186	5.85 ug/mL	98
25) Benzo(g,h,i)perylene	12.01	276	395804	6.55 ug/mL	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5K1\
InstName : JSVGCMS1
Data File : 5K1113.D
Acq On : 3 Nov 2006 12:22
Operator : jj
Sample : BA00053-CAL4
Misc : B6J0156
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 03 13:20:37 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5JY.M
Quant Title : 8270/PAH/SIM curve SIM-5JY on 10/30/06 (25ug/mL)
QLast Update : Fri Nov 03 09:17:40 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5K1\
InstName : JSVGCMS1
Data File : 5K1114.D
Acq On : 3 Nov 2006 12:39
Operator : jj
Sample : BA00053-CAL5
Misc : B6J0155
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 03 13:21:13 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5JY.M
Quant Title : 8270/PAH/SIM curve SIM-5JY on 10/30/06 (25ug/mL)
QLast Update : Fri Nov 03 09:17:40 2006
Response via : Initial Calibration

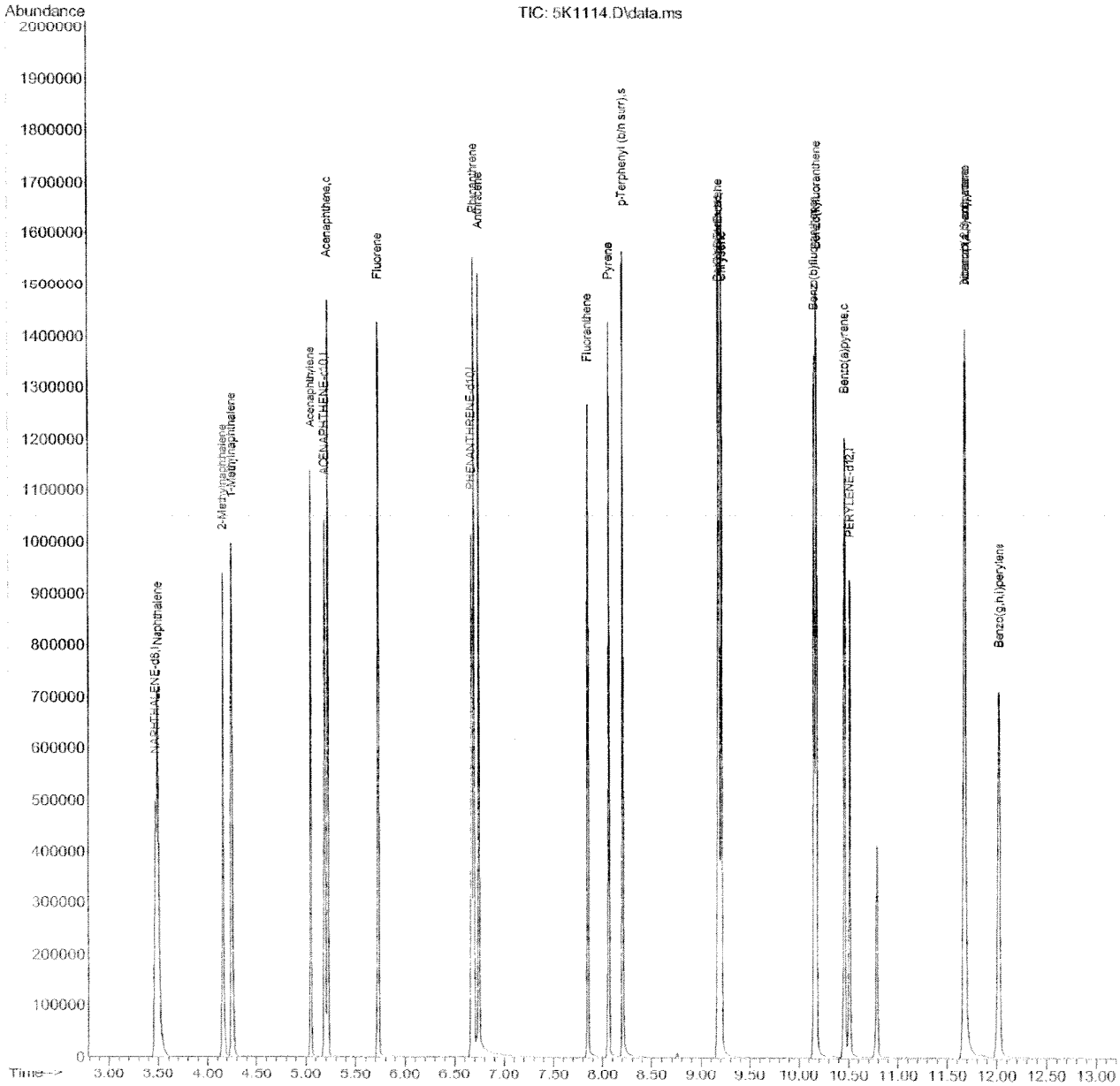
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) NAPHTHALENE-d8	3.47	136	726407	10.00	ug/mL	0.00
5) ACENAPHTHENE-d10	5.18	164	438836	10.00	ug/mL	0.00
9) PHENANTHRENE-d10	6.67	188	736537	10.00	ug/mL	0.00
16) CHRYSENE-d12	9.18	240	762813	10.00	ug/mL	0.00
19) PERYLENE-d12	10.50	264	783771	10.00	ug/mL	0.00
System Monitoring Compounds						
14) p-Terphenyl (b/n surr)	8.20	230	887898	9.69	ug/mL	0.00
Spiked Amount 5.000			Recovery	=	193.80%	
Target Compounds						Qvalue
2) Naphthalene	3.49	128	731446	9.68	ug/mL	100
3) 2-Methylnaphthalene	4.15	142	480346	10.26	ug/mL	97
4) 1-Methylnaphthalene	4.25	142	489131	9.64	ug/mL	97
6) Acenaphthylene	5.05	152	808515	10.43	ug/mL	99
7) Acenaphthene	5.21	154	466195	9.98	ug/mL	99
8) Fluorene	5.73	166	591871	9.93	ug/mL	99
10) Phenanthrene	6.69	178	865342	9.91	ug/mL	99
11) Anthracene	6.74	178	879029	9.76	ug/mL	99
12) Fluoranthene	7.85	202	966462	9.69	ug/mL	94
13) Pyrene	8.06	202	1027313	9.69	ug/mL	94
15) p-Terphenyl	8.20	230	887898	9.69	ug/mL	100
17) Benzo(a)anthracene	9.17	228	1010623	9.97	ug/mL	99
18) Chrysene	9.20	228	1030905	9.58	ug/mL	99
20) Benzo(b)fluoranthene	10.15	252	1054780	10.93	ug/mL	98
21) Benzo(k)fluoranthene	10.17	252	984576m	8.80	ug/mL	
22) Benzo(a)pyrene	10.45	252	945721	10.74	ug/mL	96
23) Indeno(1,2,3-cd)pyrene	11.67	276	953184	11.57	ug/mL	96
24) Dibenzo(a,h)anthracene	11.67	278	757992	11.47	ug/mL	97
25) Benzo(g,h,i)perylene	12.01	276	865716	12.42	ug/mL	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5K1\
InstName : JSVGCMS1
Data File : 5K1114.D
Acq On : 3 Nov 2006 12:39
Operator : jj
Sample : BA00053-CAL5
Misc : B6J0155
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 03 13:21:13 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5JY.M
Quant Title : 0270/PAH/SIM curve SIM-5JY on 10/30/06 (25ug/mL)
QLast Update : Fri Nov 03 09:17:40 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5K1\
InstName : JSVGCMS1
Data File : 5K1115.D
Acq On : 3 Nov 2006 12:57
Operator : jj
Sample : BA00053-CAL6
Misc : B6J0154
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 03 13:21:46 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5JY.M
Quant Title : 8270/PAH/SIM curve SIM-5JY on 10/30/06 (25ug/mL)
QLast Update : Fri Nov 03 09:17:40 2006
Response via : Initial Calibration

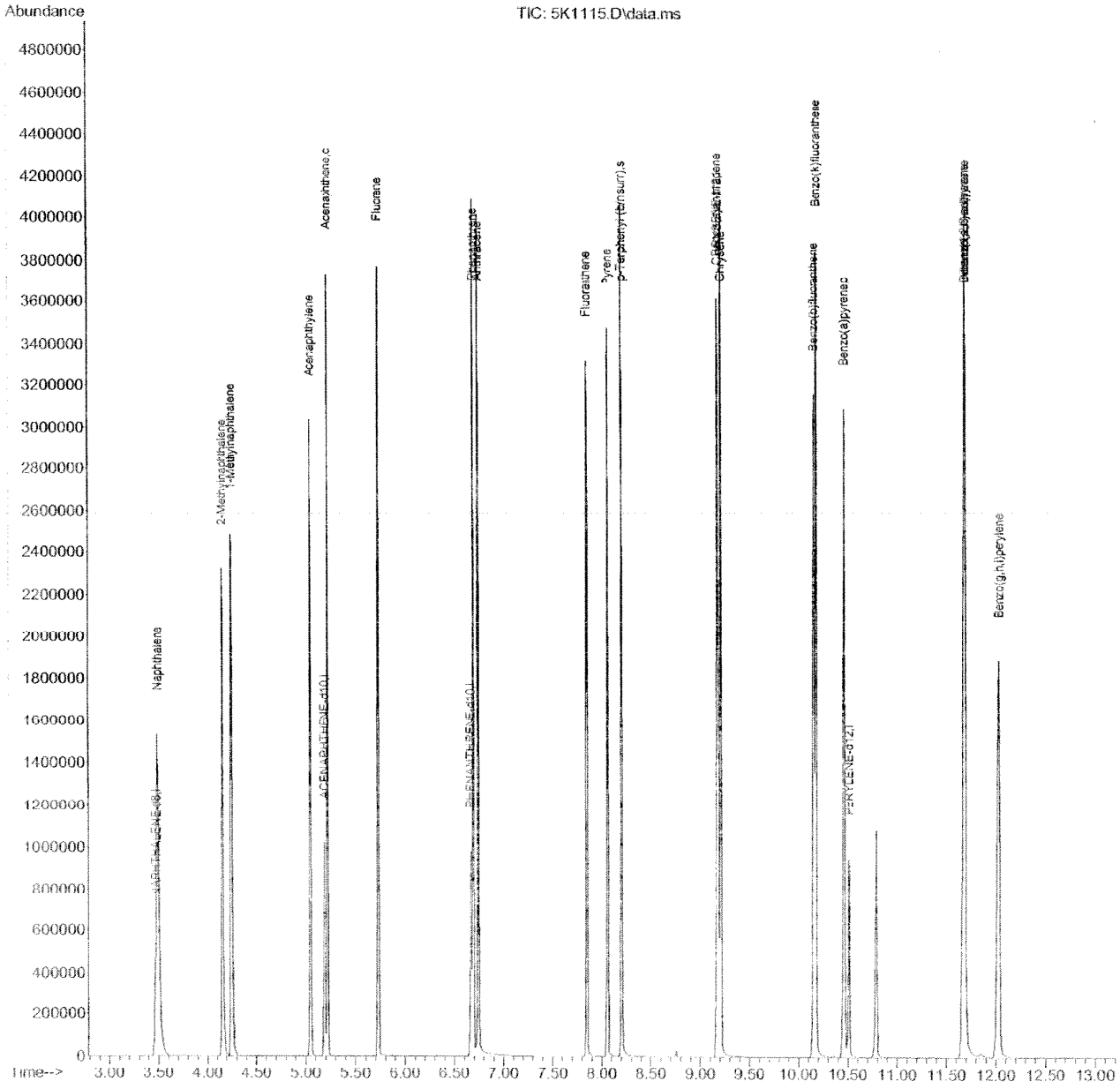
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) NAPHTHALENE-d8	3.47	136	714858	10.00 ug/mL	0.00
5) ACENAPHTHENE-d10	5.18	164	431067	10.00 ug/mL	0.00
9) PHENANTHRENE-d10	6.67	188	742952	10.00 ug/mL	0.00
16) CHRYSENE-d12	9.18	240	773259	10.00 ug/mL	0.00
19) PERYLENE-d12	10.51	264	794991	10.00 ug/mL	0.00
System Monitoring Compounds					
14) p-Terphenyl (b/n surr)	8.20	230	2270892	24.57 ug/mL	0.00
Spiked Amount 5.000			Recovery	= 491.40%	
Target Compounds					Qvalue
2) Naphthalene	3.49	128	1855634	24.95 ug/mL	100
3) 2-Methylnaphthalene	4.15	142	1226148	26.62 ug/mL	96
4) 1-Methylnaphthalene	4.25	142	1255626	25.14 ug/mL	96
6) Acenaphthylene	5.05	152	2085334	27.39 ug/mL	99
7) Acenaphthene	5.22	154	1198277	26.10 ug/mL	98
8) Fluorene	5.73	166	1535127	26.22 ug/mL	98
10) Phenanthrene	6.69	178	2261233	25.67 ug/mL	99
11) Anthracene	6.74	178	2304295	25.36 ug/mL	99
12) Fluoranthene	7.85	202	2480557	24.66 ug/mL	94
13) Pyrene	8.06	202	2609623	24.41 ug/mL	93
15) p-Terphenyl	8.20	230	2270892	24.57 ug/mL	100
17) Benzo(a)anthracene	9.17	228	2636385	25.66 ug/mL	99
18) Chrysene	9.21	228	2592682	23.77 ug/mL	100
20) Benzo(b)fluoranthene	10.15	252	2779120	28.38 ug/mL	98
21) Benzo(k)fluoranthene	10.18	252	2600801m	22.92 ug/mL	
22) Benzo(a)pyrene	10.46	252	2560142	28.65 ug/mL	96
23) Indeno(1,2,3-cd)pyrene	11.68	276	2707212	26.67 ug/mL	95
24) Dibenzo(a,h)anthracene	11.69	278	2215374	26.63 ug/mL	97
25) Benzo(g,h,i)perylene	12.03	276	2389538	28.38 ug/mL	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5K1\
InstName : JSVGCMS1
Data File : 5K1115.D
Acq On : 3 Nov 2006 12:57
Operator : jj
Sample : BA00053-CAL6
Misc : B6J0154
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Nov 03 13:21:46 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5JY.M
Quant Title : 8270/PAH/SIM curve SIM-5JY on 10/30/06 (25ug/mL)
QLast Update : Fri Nov 03 09:17:40 2006
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\5K1\5K1116.D
Acq On : 3 Nov 2006 13:20
Sample : BA00053-SCV1
Misc : B6I0032
MS Integration Params: RTEINT.P

Vial: 16
Operator: jj
Inst : JSVGCMS1
Multiplr: 1.00

Method : C:\msdchem\1\METHODS\SIM 5K1.M (RTE Integrator)
Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
Last Update : Fri Nov 03 13:24:05 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
1	I	NAPHTHALENE-d8	1.000	1.000	0.0	101	0.00	
2		Naphthalene	1.013	1.082	-6.8	106	0.00	
3		2-Methylnaphthalene	0.652	0.712	-9.2	107	0.00	
4		1-Methylnaphthalene	0.668	0.688	-3.0	101	0.00	
5	I	ACENAPHTHENE-d10	1.000	1.000	0.0	100	0.00	
6		Acenaphthylene	1.767	1.975	-11.8	105	0.00	
7	c	Acenaphthene	1.059	1.144	-8.0	105	0.00	
8		Fluorene	1.317	1.417	-7.6	103	0.00	
9	I	PHENANTHRENE-d10	1.000	1.000	0.0	101	0.00	
10		Phenanthrene	1.181	1.235	-4.6	104	0.00	
11		Anthracene	1.170	1.278	-9.2	106	0.00	
12		Fluoranthene	1.288	1.456	-13.0	109	0.00	
13		Pyrene	1.375	1.498	-8.9	105	0.00	
14	s	p-Terphenyl (b/n surr)	1.166	0.001	99.9#	0#	0.00	
15		p-Terphenyl	1.166	0.001	99.9#	0#	0.00	
16	I	CHRYSENE-d12	1.000	1.000	0.0	98	0.00	
17		Benzo(a)anthracene	1.337	1.455	-8.8	106	0.00	
18		Chrysene	1.370	1.493	-9.0	105	0.00	
19	I	PERYLENE-d12	1.000	1.000	0.0	101	0.00	
20		Benzo(b)fluoranthene	1.275	1.395	-9.4	107	0.00	
21		Benzo(k)fluoranthene	1.254	1.373	-9.5	104	0.00	
22	c	Benzo(a)pyrene	1.115	1.208	-8.3	101	0.00	
23		Indeno(1,2,3-cd)pyrene	5.000	5.060	-1.2	102	0.00	Q
24		Dibenzo(a,h)anthracene	5.000	4.924	1.5	99	0.00	Q
25		Benzo(g,h,i)perylene	5.000	5.094	-1.9	101	0.00	Q

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5K1116.D SIM-5K1.M Wed Nov 29 13:20:34 2006

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5K1\
InstName : JSVGCMS1
Data File : 5K1116.D
Acq On : 3 Nov 2006 13:20
Operator : jj
Sample : BA00053-SCV1
Misc : B6I0032
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 03 13:46:27 2006
Quant Method : C:\msdchem\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration

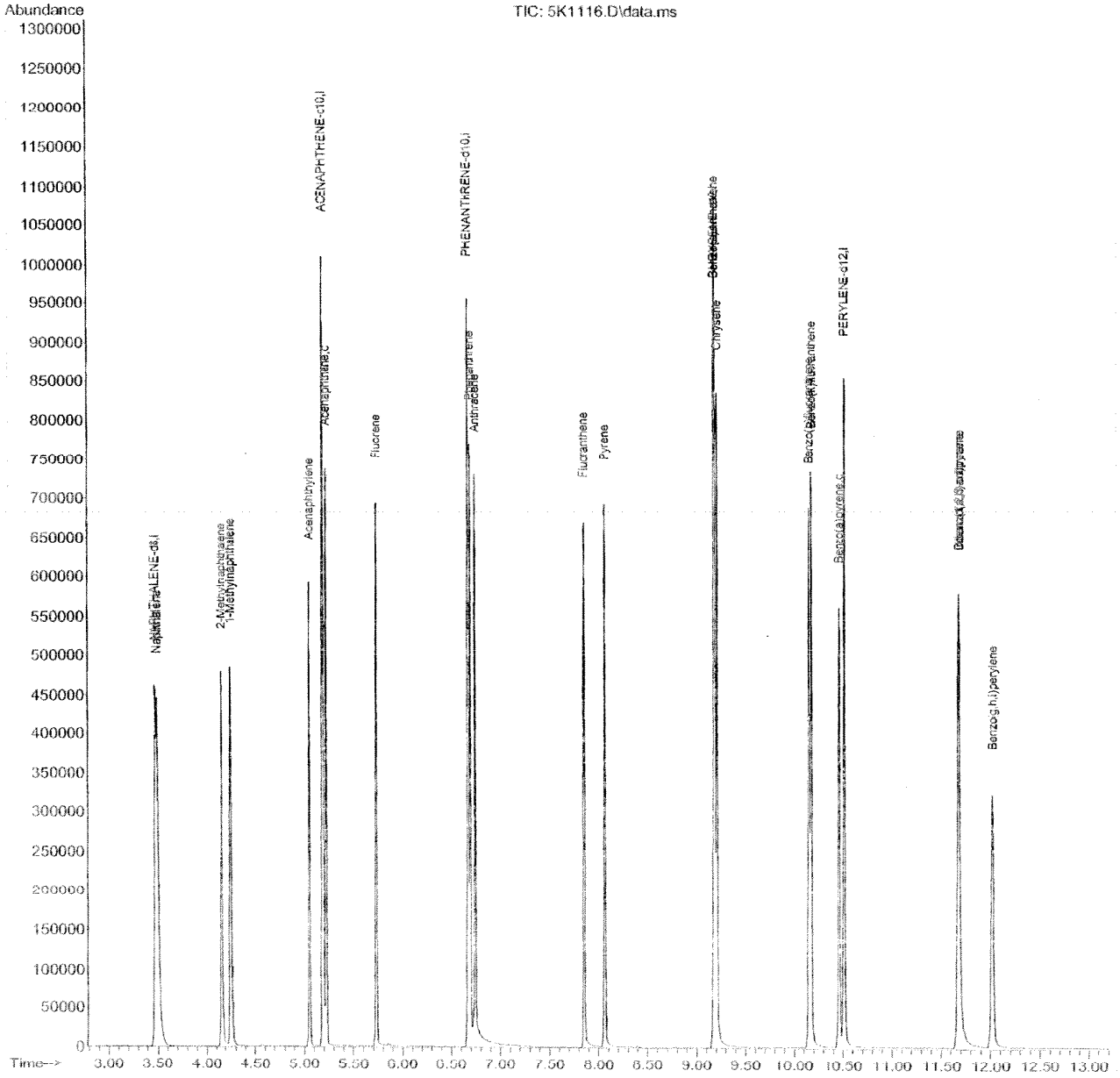
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) NAPHTHALENE-d8	3.47	136	707070	10.00 ug/mL	0.00
5) ACENAPHTHENE-d10	5.18	164	418240	10.00 ug/mL	0.00
9) PHENANTHRENE-d10	6.67	188	700644	10.00 ug/mL	0.00
16) CHRYSENE-d12	9.10	240	700239	10.00 ug/mL	0.00
19) PERYLENE-d12	10.51	264	740532	10.00 ug/mL	0.00
System Monitoring Compounds					
14) p-Terphenyl (b/n surr)	8.20	230	283	0.00 ug/mL	0.00
Spiked Amount 5.000			Recovery	= 0.00%	
Target Compounds					Qvalue
2) Naphthalene	3.49	128	382655	5.34 ug/mL	100
3) 2-Methylnaphthalene	4.15	142	251720	5.46 ug/mL	100
4) 1-Methylnaphthalene	4.25	142	243273	5.15 ug/mL	100
6) Acenaphthylene	5.05	152	412929	5.59 ug/mL	100
7) Acenaphthene	5.21	154	239300	5.40 ug/mL	100
8) Fluorene	5.73	166	296353	5.38 ug/mL	99
10) Phenanthrene	6.69	178	432702	5.23 ug/mL	100
11) Anthracene	6.74	178	447647	5.46 ug/mL	100
12) Fluoranthene	7.85	202	510022	5.65 ug/mL	100
13) Pyrene	8.06	202	524931	5.45 ug/mL	100
15) p-Terphenyl	8.20	230	283	N.D.	
17) Benzo(a)anthracene	9.17	228	515167	5.44 ug/mL	100
18) Chrysene	9.20	228	528669	5.45 ug/mL	100
20) Benzo(b)fluoranthene	10.15	252	516475	5.47 ug/mL	99
21) Benzo(k)fluoranthene	10.17	252	508305	5.48 ug/mL	99
22) Benzo(a)pyrene	10.45	252	447442	5.42 ug/mL	100
23) Indeno(1,2,3-cd)pyrene	11.67	276	429726	5.06 ug/mL	100
24) Dibenzo(a,h)anthracene	11.67	278	325144	4.92 ug/mL	100
25) Benzo(g,h,i)perylene	12.01	276	401433	5.09 ug/mL	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5K1\
InstName : JSVGCMS1
Data File : 5K1116.D
Acq On : 3 Nov 2006 13:20
Operator : jj
Sample : BA00053-SCV1
Misc : B6I0032
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 03 13:46:27 2006
Quant Method : C:\msdchem\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM 5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration

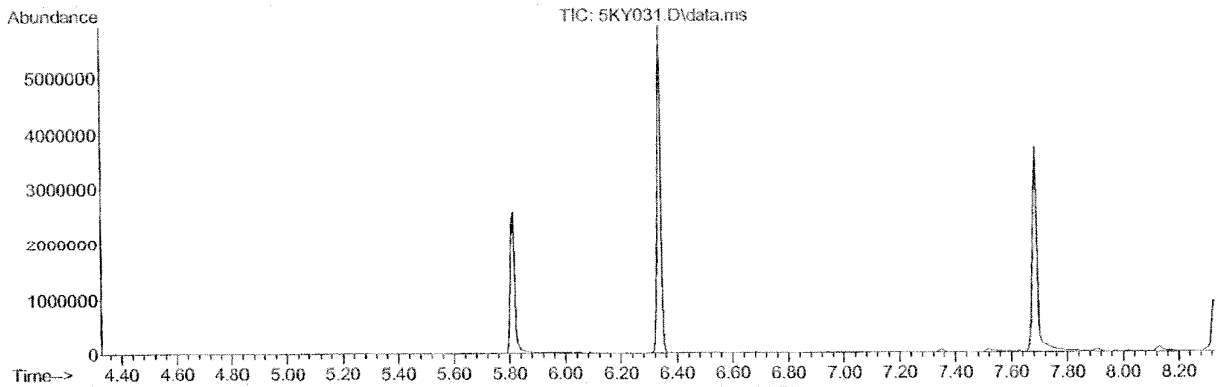


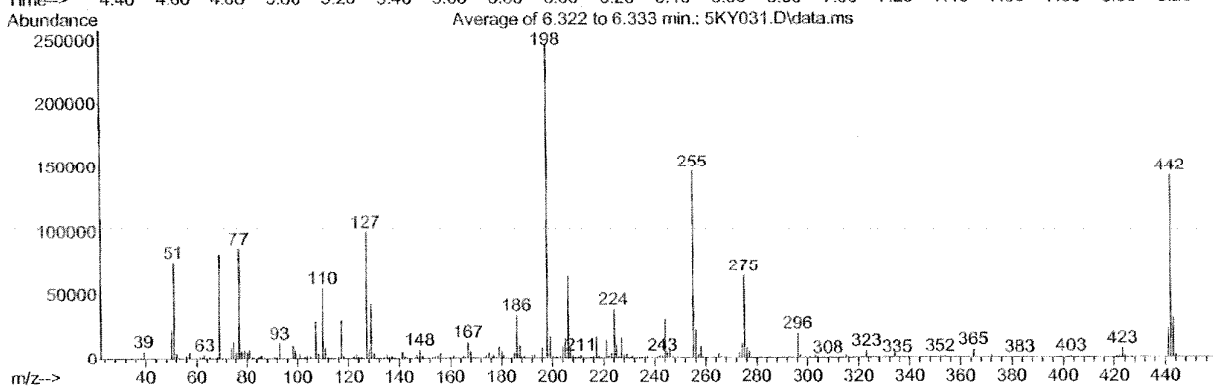
DFTPP

Data Path : C:\msdchem\1\DATA\5KY\
Data File : 5KY031.D
Acq On : 30 Nov 2006 20:06
Operator : jj
Sample : BA00079-TUN1
Misc :
ALS Vial : 31 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\METHODS\DFTPP.M
Title : 625/8270 Tune Method
Last Update : Mon Nov 27 08:48:58 2006





Spectrum Information: Average of 6.322 to 6.333 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	30.8	75485	PASS
68	69	0.00	2	2.2	1819	PASS
69	198	0.00	100	33.4	81957	PASS
70	69	0.00	2	0.6	460	PASS
127	198	40	60	40.4	99218	PASS
197	198	0.00	1	0.2	403	PASS
198	198	100	100	100.0	245330	PASS
199	198	5	9	6.8	16719	PASS
275	198	10	30	26.0	63709	PASS
365	198	1	100	2.6	6430	PASS
441	443	0.01	100	72.4	21951	PASS
442	198	40	100	57.8	141866	PASS
443	442	17	23	21.4	30333	PASS

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\5KY\5KY032.D Vial: 32
Acq On : 30 Nov 2006 20:20 Operator: jj
Sample : BA00079-CCV1 Inst : JSVGCMS1
Misc : [] Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\SIM-5K1.M (RTE Integrator)
Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
Last Update : Mon Dec 04 16:04:50 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
1	I	NAPHTHALENE-d8	1.000	1.000	0.0	83	0.00	
2		Naphthalene	1.013	0.999	1.4	80	0.00	
3		2-Methylnaphthalene	0.652	0.653	-0.2	81	0.00	
4		1-Methylnaphthalene	0.668	0.675	-1.0	81	0.00	
5	I	ACENAPHTHENE-d10	1.000	1.000	0.0	86	0.00	
6		Acenaphthylene	1.767	1.782	-0.8	82	0.00	
7	c	Acenaphthene	1.059	1.030	2.7	82	0.00	
8		Fluorene	1.317	1.330	-1.0	83	0.00	
9	I	PHENANTHRENE-d10	1.000	1.000	0.0	90	0.00	
10		Phenanthrene	1.181	1.137	3.7	85	0.00	
11		Anthracene	1.170	1.152	1.5	86	0.00	
12		Fluoranthene	1.288	1.415	-9.9	94	0.01	
13		Pyrene	1.375	1.530	-11.3	95	0.00	
14	s	p-Terphenyl (b/n surr)	1.166	1.361	-16.7	98	0.00	
15		p-Terphenyl	1.166	1.361	-16.7	98	0.00	
16	I	CHRYSENE-d12	1.000	1.000	0.0	103	0.00	
17		Benzo(a)anthracene	1.337	1.318	1.4	101	0.00	
18		Chrysene	1.370	1.315	4.0	97	0.01	
19	I	PERYLENE-d12	1.000	1.000	0.0	108	0.00	
20		Benzo(b)fluoranthene	1.275	1.226	3.8	101	0.00	
21		Benzo(k)fluoranthene	1.254	1.350	-7.7	110	0.00	
22	c	Benzo(a)pyrene	1.115	1.200	-7.6	108	0.00	
23		Indeno(1,2,3-cd)pyrene	5.000	5.398	-8.0	117	0.01	Q
24		Dibenzo(a,h)anthracene	5.000	5.744	-14.9	126	0.01	Q
25		Benzo(g,h,i)perylene	5.000	4.944	1.1	106	0.01	Q

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY032.D
Acq On : 30 Nov 2006 20:20
Operator : jj
Sample : BA00079-CCV1
Misc :
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Nov 30 20:33:40 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration

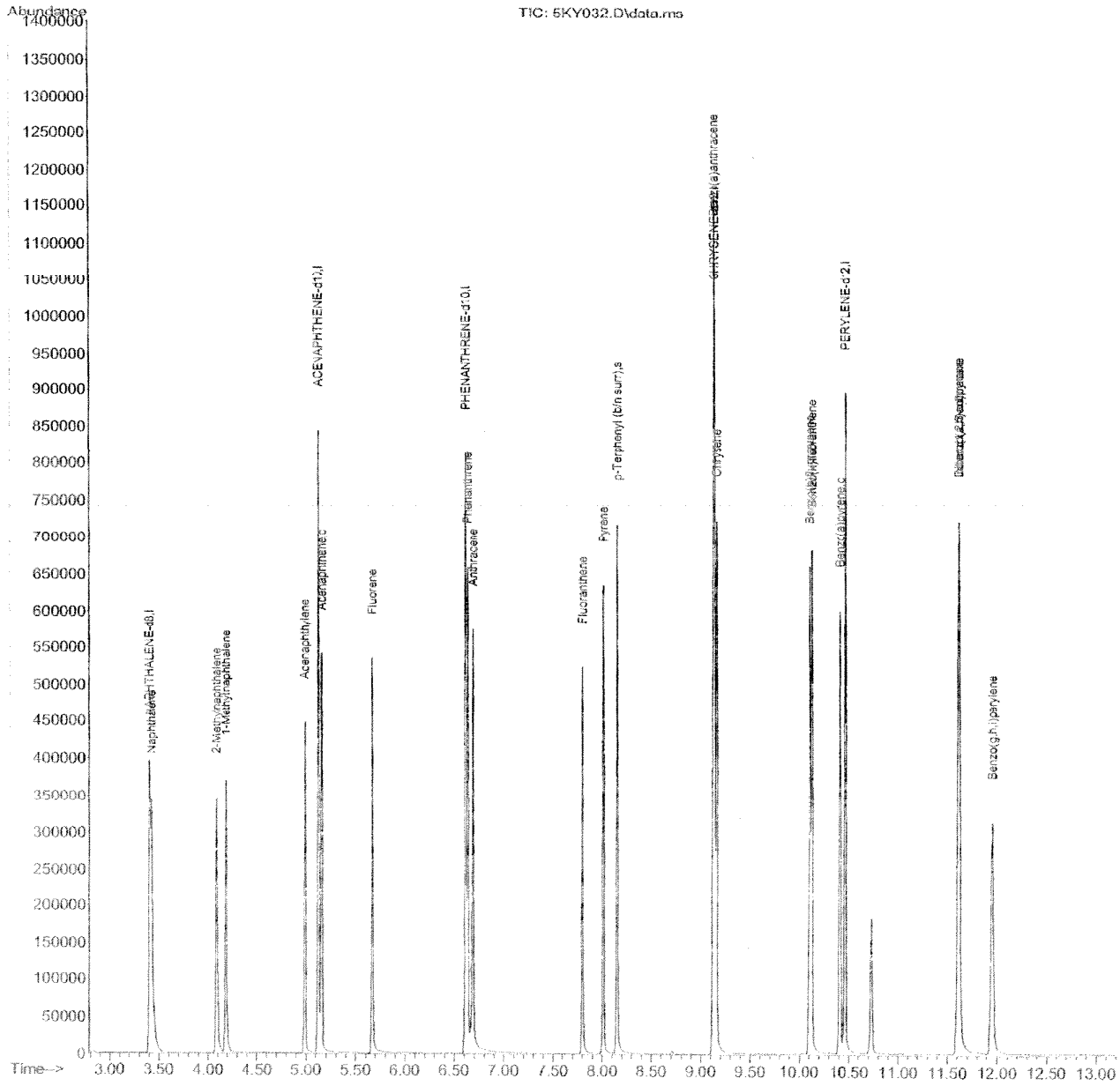
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) NAPHTHALENE-d8	3.40	136	578688	10.00 ug/mL	-0.07
5) ACENAPHTHENE-d10	5.12	164	362264	10.00 ug/mL	-0.06
9) PHENANTHRENE-d10	6.61	188	624901	10.00 ug/mL	-0.06
16) CHRYSENE-d12	9.13	240	745777	10.00 ug/mL	0.05
19) PERYLENE-d12	10.46	264	795545	10.00 ug/mL	-0.05
System Monitoring Compounds					
14) p-Terphenyl (b/n surr)	8.15	230	425119	5.83 ug/mL	-0.05
Spiked Amount 5.000			Recovery	= 116.60%	
Target Compounds					Qvalue
2) Naphthalene	3.42	128	289025	4.93 ug/mL	100
3) 2-Methylnaphthalene	4.08	142	189040	5.01 ug/mL	99
4) 1-Methylnaphthalene	4.18	142	195310	5.05 ug/mL	99
6) Acenaphthylene	4.98	152	322718	5.04 ug/mL	100
7) Acenaphthene	5.15	154	186497	4.86 ug/mL	99
8) Fluorene	5.67	166	240827	5.05 ug/mL	100
10) Phenanthrene	6.63	178	355182	4.81 ug/mL	100
11) Anthracene	6.68	178	359955	4.92 ug/mL	100
12) Fluoranthene	7.80	202	442041	5.49 ug/mL	96
13) Pyrene	8.01	202	478002	5.56 ug/mL	96
15) p-Terphenyl	8.15	230	425119	5.83 ug/mL	100
17) Benzo(a)anthracene	9.12	228	491603	4.93 ug/mL	99
18) Chrysene	9.16	228	490347	4.80 ug/mL	100
20) Benzo(b)fluoranthene	10.10	252	487809	4.81 ug/mL	95
21) Benzo(k)fluoranthene	10.12	252	536969	5.38 ug/mL	96
22) Benzo(a)pyrene	10.40	252	477414	5.38 ug/mL	98
23) Indeno(1,2,3-cd)pyrene	11.61	276	494858	5.40 ug/mL	96
24) Dibenzo(a,h)anthracene	11.61	278	413521	5.74 ug/mL	97
25) Benzo(g,h,i)perylene	11.95	276	417905	4.94 ug/mL	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY032.D
Acq On : 30 Nov 2006 20:20
Operator : jj
Sample : BA00079-CCV1
Misc :
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Nov 30 20:33:40 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration



SIM-5K1.M Wed Dec 06 10:01:44 2006

Page: 2

SEMIVOLATILES QUALITY CONTROL RAW DATA

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY033.D
Acq On : 30 Nov 2006 20:37
Operator : jj
Sample : 6K28001-BLK1
Misc : @8270/pah/sim water
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Dec 04 16:52:00 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration

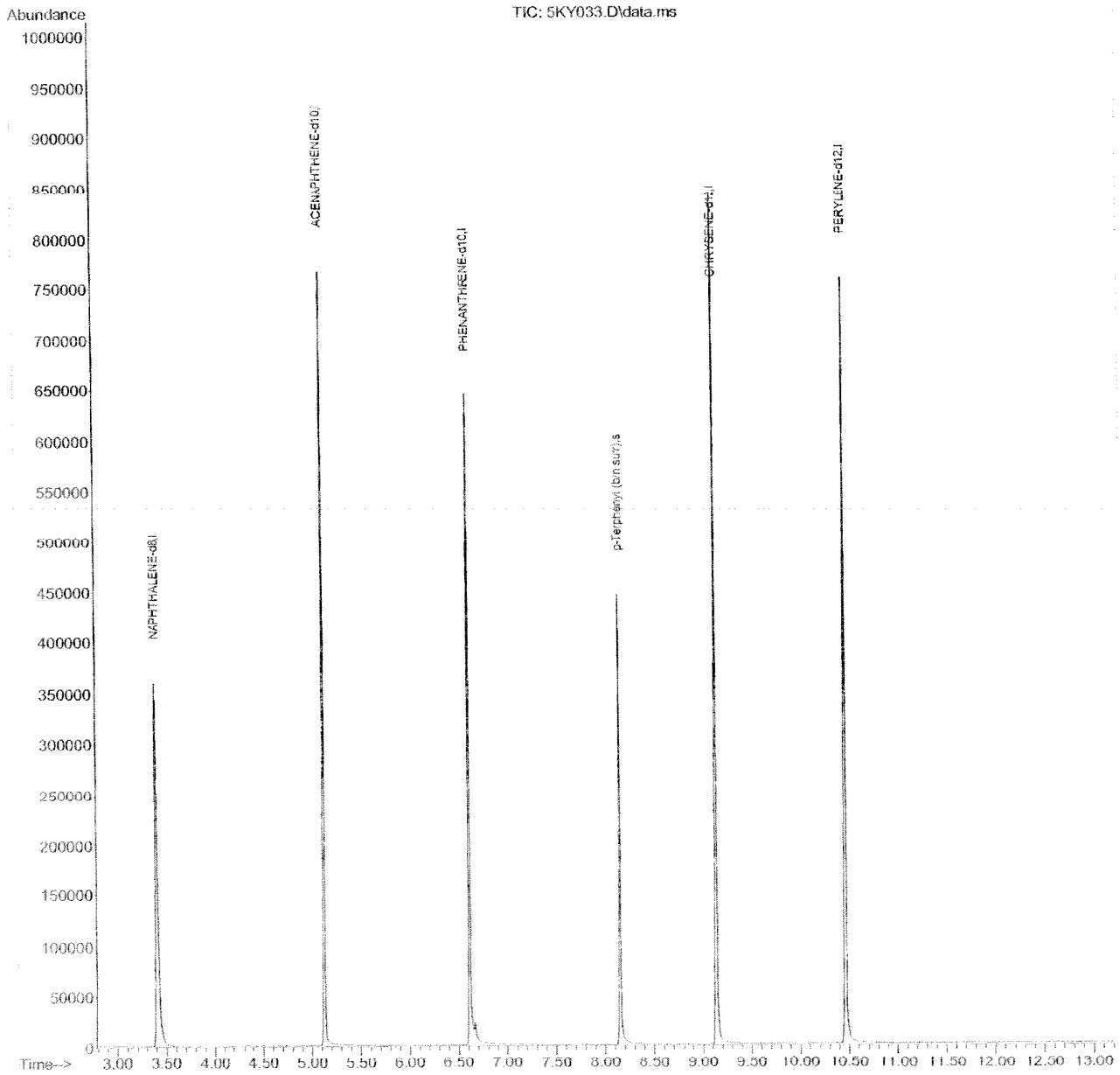
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) NAPHTHALENE-d8	3.40	136	537608	10.00 ug/mL	-0.07
5) ACENAPHTHENE-d10	5.12	164	332102	10.00 ug/mL	-0.06
9) PHENANTHRENE-d10	6.61	188	546140	10.00 ug/mL	-0.06
16) CHRYSENE d12	9.13	240	679617	10.00 ug/mL	-0.05
19) PERYLENE-d12	10.46	264	703838	10.00 ug/mL	-0.05
System Monitoring Compounds					
14) p-Terphenyl (b/n surr)	8.15	230	287017	4.51 ug/mL	-0.05
Spiked Amount 5.000			Recovery	= 90.20%	
Target Compounds					Qvalue
2) Naphthalene	3.41	128	228	N.D.	
3) 2-Methylnaphthalene	0.00	142	0	N.D.	
4) 1-Methylnaphthalene	0.00	142	0	N.D.	
6) Acenaphthylene	0.00	152	0	N.D.	
7) Acenaphthene	5.12	154	1087	N.D.	
8) Fluorene	0.00	166	0	N.D.	
10) Phenanthrene	6.63	178	260	N.D.	
11) Anthracene	0.00	178	0	N.D.	
12) Fluoranthene	7.80	202	232	N.D.	
13) Pyrene	8.01	202	183	N.D.	
15) p-Terphenyl	8.15	230	287017	4.51 ug/mL	100
17) Benzo(a)anthracene	9.13	228	1959	N.D.	
18) Chrysene	9.13	228	1959	N.D.	
20) Benzo(b)fluoranthene	0.00	252	0	N.D.	
21) Benzo(k)fluoranthene	10.13	252	153	N.D.	
22) Benzo(a)pyrene	10.41	252	135	N.D.	
23) Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D. d	
24) Dibenzo(a,h)anthracene	0.00	278	0	N.D. d	
25) Benzo(g,h,i)perylene	0.00	276	0	N.D. d	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY033.D
Acq On : 30 Nov 2006 20:37
Operator : jj
Sample : 6K28001-BLK1
Misc : @8270/pah/sim water
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Dec 04 16:52:00 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY034.D
Acq On : 30 Nov 2006 20:55
Operator : jj
Sample : 6K28001-BS1
Misc : @8270/pah/sim water
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Nov 30 21:08:48 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration

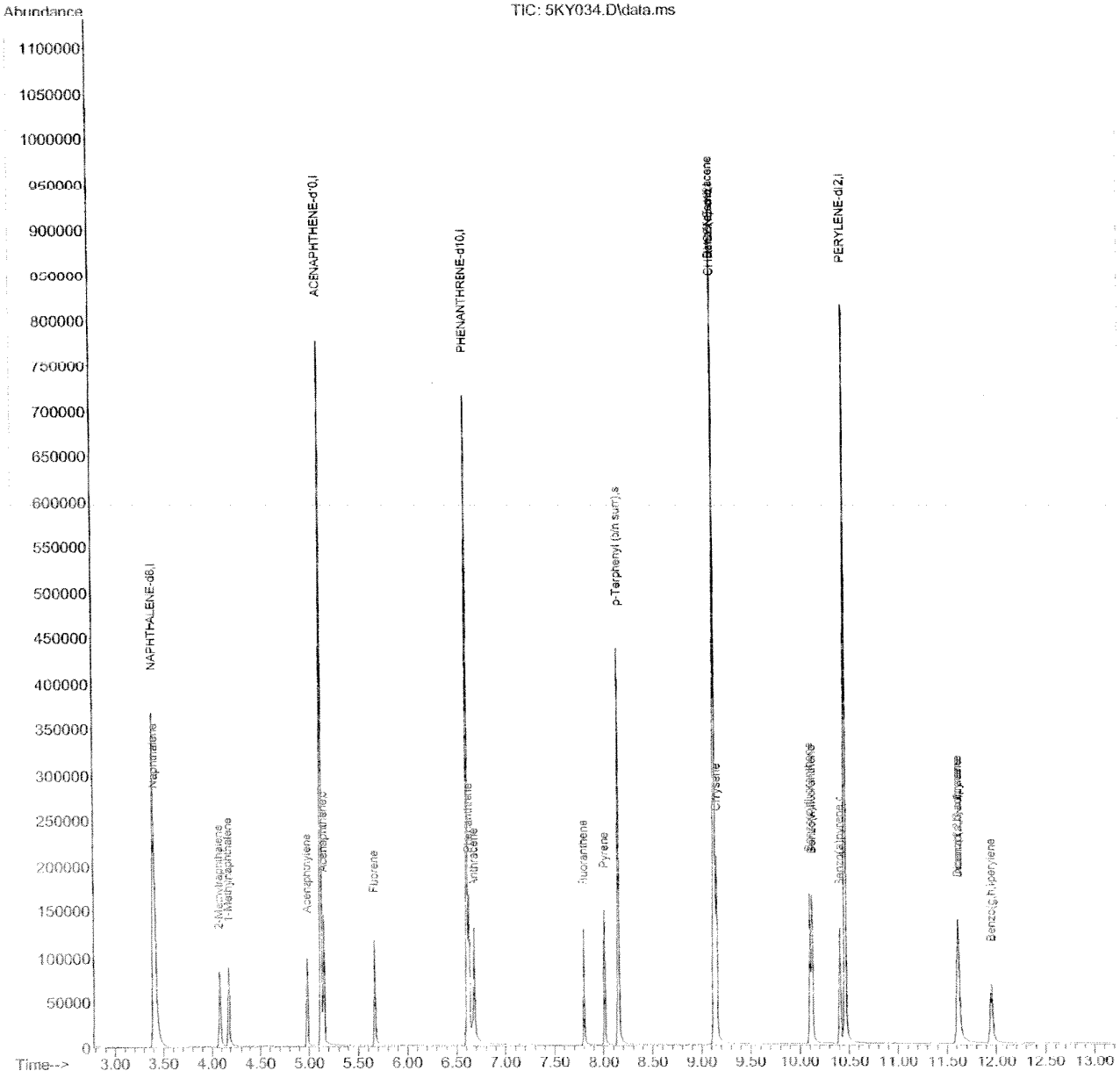
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) NAPHTHALENE-d8	3.40	136	553930	10.00 ug/mL	-0.07
5) ACENAPHTHENE-d10	5.12	164	343599	10.00 ug/mL	-0.06
9) PHENANTHRENE-d10	6.61	188	575959	10.00 ug/mL	-0.06
16) CHRYSENE-d12	9.13	240	699907	10.00 ug/mL	-0.05
19) PERYLENE-d12	10.46	264	734113	10.00 ug/mL	-0.05
System Monitoring Compounds					
14) p-Terphenyl (b/n surr)	8.15	230	274294	4.08 ug/mL	-0.05
Spiked Amount 5.000			Recovery =	81.60%	
Target Compounds					Qvalue
2) Naphthalene	3.41	128	72176	1.29 ug/mL	100
3) 2-Methylnaphthalene	4.08	142	46129	1.28 ug/mL	99
4) 1-Methylnaphthalene	4.18	142	46717	1.26 ug/mL	98
6) Acenaphthylene	4.98	152	77111	1.27 ug/mL	100
7) Acenaphthene	5.15	154	46010	1.26 ug/mL	100
8) Fluorene	5.67	166	58793	1.30 ug/mL	99
10) Phenanthrene	6.63	178	87740	1.29 ug/mL	99
11) Anthracene	6.68	178	88257	1.31 ug/mL	99
12) Fluoranthene	7.80	202	117504	1.58 ug/mL	97
13) Pyrene	8.01	202	122692	1.55 ug/mL	96
15) p-Terphenyl	8.15	230	274294	4.08 ug/mL	100
17) Benzo(a)anthracene	9.12	228	128820	1.38 ug/mL	99
18) Chrysene	9.15	228	131170	1.37 ug/mL	99
20) Benzo(b)fluoranthene	10.10	252	122065	1.30 ug/mL	98
21) Benzo(k)fluoranthene	10.12	252	141422	1.54 ug/mL	98
22) Benzo(a)pyrene	10.40	252	109921	1.34 ug/mL	98
23) Indeno(1,2,3-cd)pyrene	11.61	276	116078	1.54 ug/mL	96
24) Dibenzo(a,h)anthracene	11.61	278	93530	1.63 ug/mL	97
25) Benzo(g,h,i)perylene	11.95	276	95911	1.33 ug/mL	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY034.D
Acq On : 30 Nov 2006 20:55
Operator : jj
Sample : 6K28001-BS1
Misc : @0270/pah/sim water
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Nov 30 21:08:48 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration



SIM-5K1.M Wed Dec 06 10:02:22 2006 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY035.D
Acq On : 30 Nov 2006 21:13
Operator : jj
Sample : 6K28001-MS1
Misc : @8270/pah/sim water
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Nov 30 21:26:16 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration

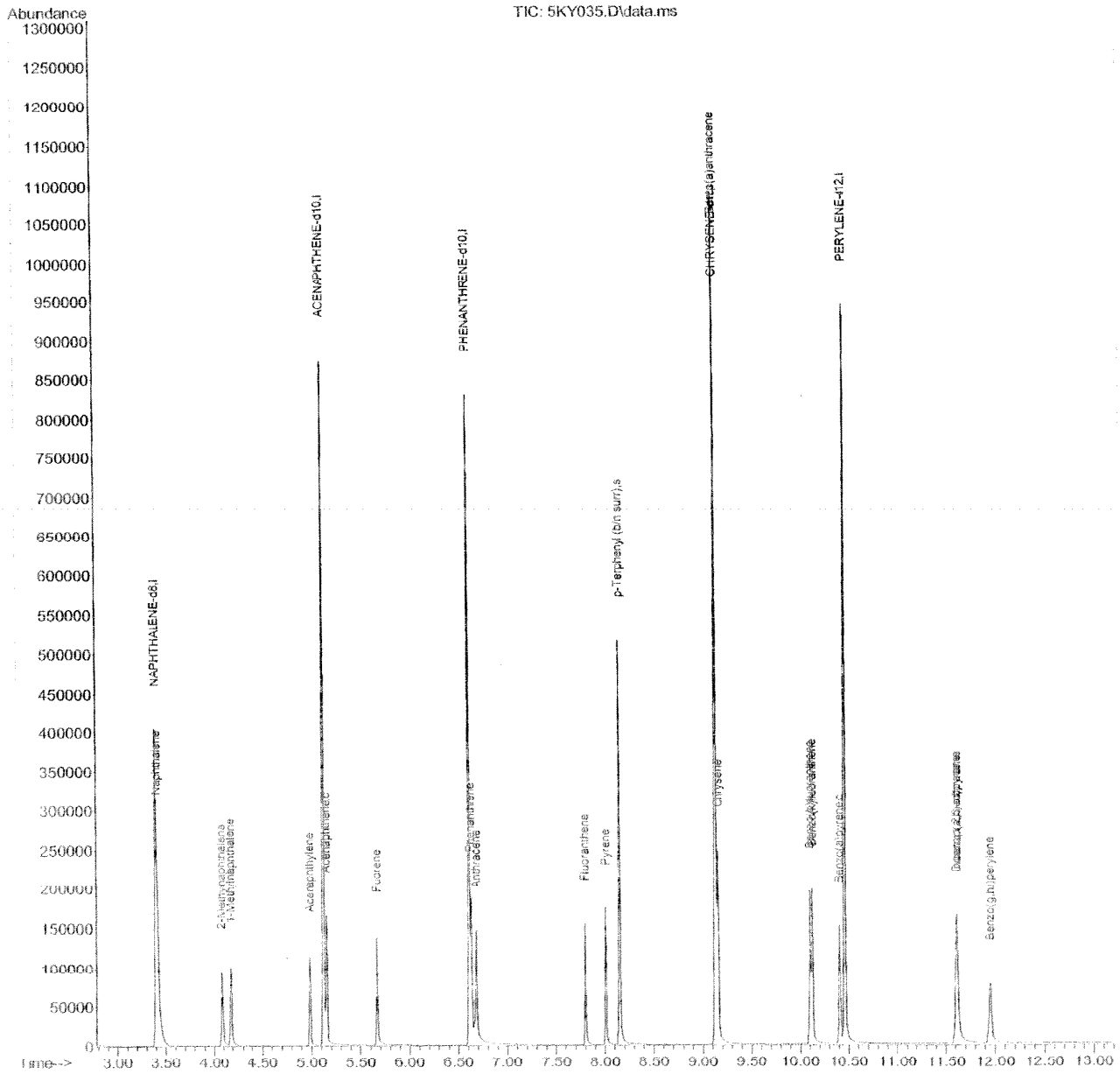
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) NAPHTHALENE-d8	3.40	136	618346	10.00	ug/mL	-0.07
5) ACENAPHTHENE-d10	5.12	164	388198	10.00	ug/mL	-0.06
9) PHENANTHRENE-d10	6.61	188	654093	10.00	ug/mL	-0.06
16) CHRYSENE-d12	9.13	240	806684	10.00	ug/mL	-0.05
19) PERYLENE-d12	10.46	264	847560	10.00	ug/mL	-0.05
System Monitoring Compounds						
14) p-Terphenyl (b/n surr)	8.15	230	320156	4.20	ug/mL	-0.05
Spiked Amount 5.000			Recovery	-	04.00%	
Target Compounds						Qvalue
2) Naphthalene	3.41	128	82632	1.32	ug/mL	100
3) 2-Methylnaphthalene	4.08	142	53305	1.32	ug/mL	99
4) 1-Methylnaphthalene	4.18	142	53725	1.30	ug/mL	99
6) Acenaphthylene	4.98	152	89217	1.30	ug/mL	100
7) Acenaphthene	5.15	154	53057	1.29	ug/mL	100
8) Fluorene	5.67	166	66659	1.30	ug/mL	99
10) Phenanthrene	6.63	178	101762	1.32	ug/mL	99
11) Anthracene	6.68	178	102793	1.34	ug/mL	99
12) Fluoranthene	7.79	202	137041	1.63	ug/mL	96
13) Pyrene	8.01	202	143129	1.59	ug/mL	95
15) p-Terphenyl	8.15	230	320156	4.20	ug/mL	100
17) Benzo(a)anthracene	9.12	228	153956	1.43	ug/mL	98
18) Chrysene	9.15	228	155318	1.41	ug/mL	99
20) Benzo(b)fluoranthene	10.10	252	151207	1.40	ug/mL	97
21) Benzo(k)fluoranthene	10.12	252	160517	1.51	ug/mL	99
22) Benzo(a)pyrene	10.40	252	130974	1.39	ug/mL	98
23) Indeno(1,2,3-cd)pyrene	11.61	276	136709	1.56	ug/mL	95
24) Dibenzo(a,h)anthracene	11.61	278	107952	1.63	ug/mL	97
25) Benzo(g,h,i)perylene	11.95	276	111418	1.34	ug/mL	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY035.D
Acq On : 30 Nov 2006 21:13
Operator : jj
Sample : 6K28001-MS1
Misc : @8270/pah/sim water
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Nov 30 21:26:16 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY036.D
Acq On : 30 Nov 2006 21:30
Operator : jj
Sample : 6K28001-MSD1
Misc : @8270/pah/sim water
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Nov 30 21:43:52 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration

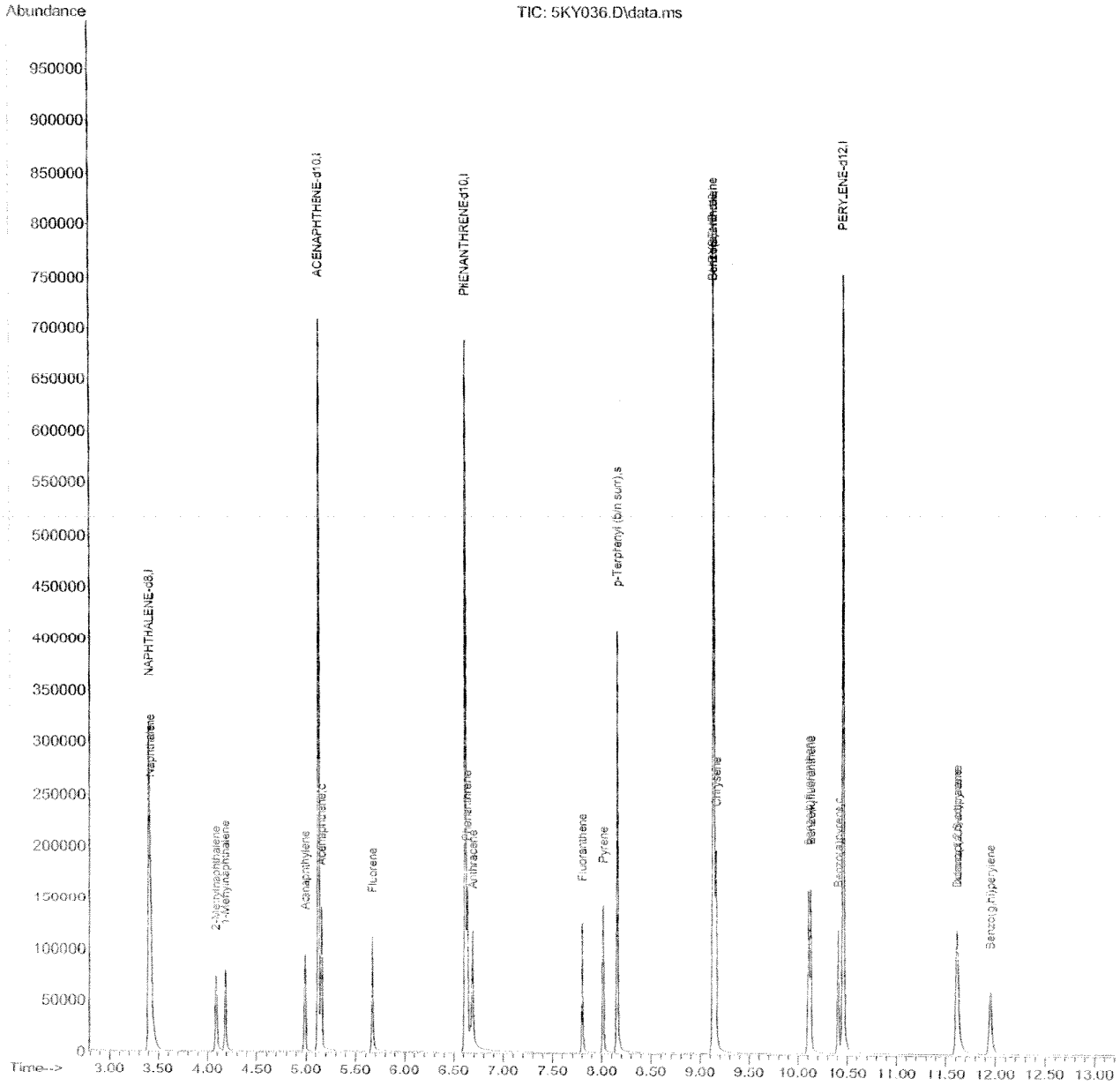
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) NAPHTHALENE-d8	3.40	136	501748	10.00	ug/mL	-0.07
5) ACENAPHTHENE-d10	5.12	164	317745	10.00	ug/mL	-0.06
9) PHENANTHRENE-d10	6.61	188	537445	10.00	ug/mL	-0.06
16) CHRYSENE-d12	9.13	240	654303	10.00	ug/mL	-0.05
19) PERYLENE-d12	10.46	264	687042	10.00	ug/mL	-0.05
System Monitoring Compounds						
14) p-Terphenyl (b/n surr)	8.15	230	257494	4.11	ug/mL	-0.05
Spiked Amount 5.000			Recovery = 82.20%			
Target Compounds						Qvalue
2) Naphthalene	3.41	128	67675	1.33	ug/mL	99
3) 2-Methylnaphthalene	4.08	142	43730	1.34	ug/mL	99
4) 1-Methylnaphthalene	4.18	142	43759	1.30	ug/mL	100
6) Acenaphthylene	4.98	152	73330	1.31	ug/mL	100
7) Acenaphthene	5.15	154	43597	1.30	ug/mL	100
8) Fluorene	5.67	166	56186	1.34	ug/mL	99
10) Phenanthrene	6.63	178	84616	1.33	ug/mL	99
11) Anthracene	6.68	178	85322	1.36	ug/mL	100
12) Fluoranthene	7.79	202	113509	1.64	ug/mL	96
13) Pyrene	8.01	202	118751	1.61	ug/mL	95
15) p-Terphenyl	8.15	230	257494	4.11	ug/mL	100
17) Benzo(a)anthracene	9.12	228	125529	1.44	ug/mL	98
18) Chrysene	9.15	228	127161	1.42	ug/mL	100
20) Benzo(b)fluoranthene	10.10	252	121040	1.38	ug/mL	97
21) Benzo(k)fluoranthene	10.12	252	133325	1.55	ug/mL	98
22) Benzo(a)pyrene	10.40	252	106451	1.39	ug/mL	98
23) Indeno(1,2,3-cd)pyrene	11.61	276	108095	1.53	ug/mL	95
24) Dibenzo(a,h)anthracene	11.61	278	84361	1.58	ug/mL	97
25) Benzo(g,h,i)perylene	11.95	276	88956	1.32	ug/mL	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY036.D
Acq On : 30 Nov 2006 21:30
Operator : jj
Sample : 6K28001-MSD1
Misc : @8270/pah/sim water
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Nov 30 21:43:52 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration



SEMIVOLATILES SAMPLE RAW DATA

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY038.D
Acq On : 30 Nov 2006 22:05
Operator : jj
Sample : B610171-01
Misc : @8270/pah/sim water
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Dec 05 11:23:42 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration

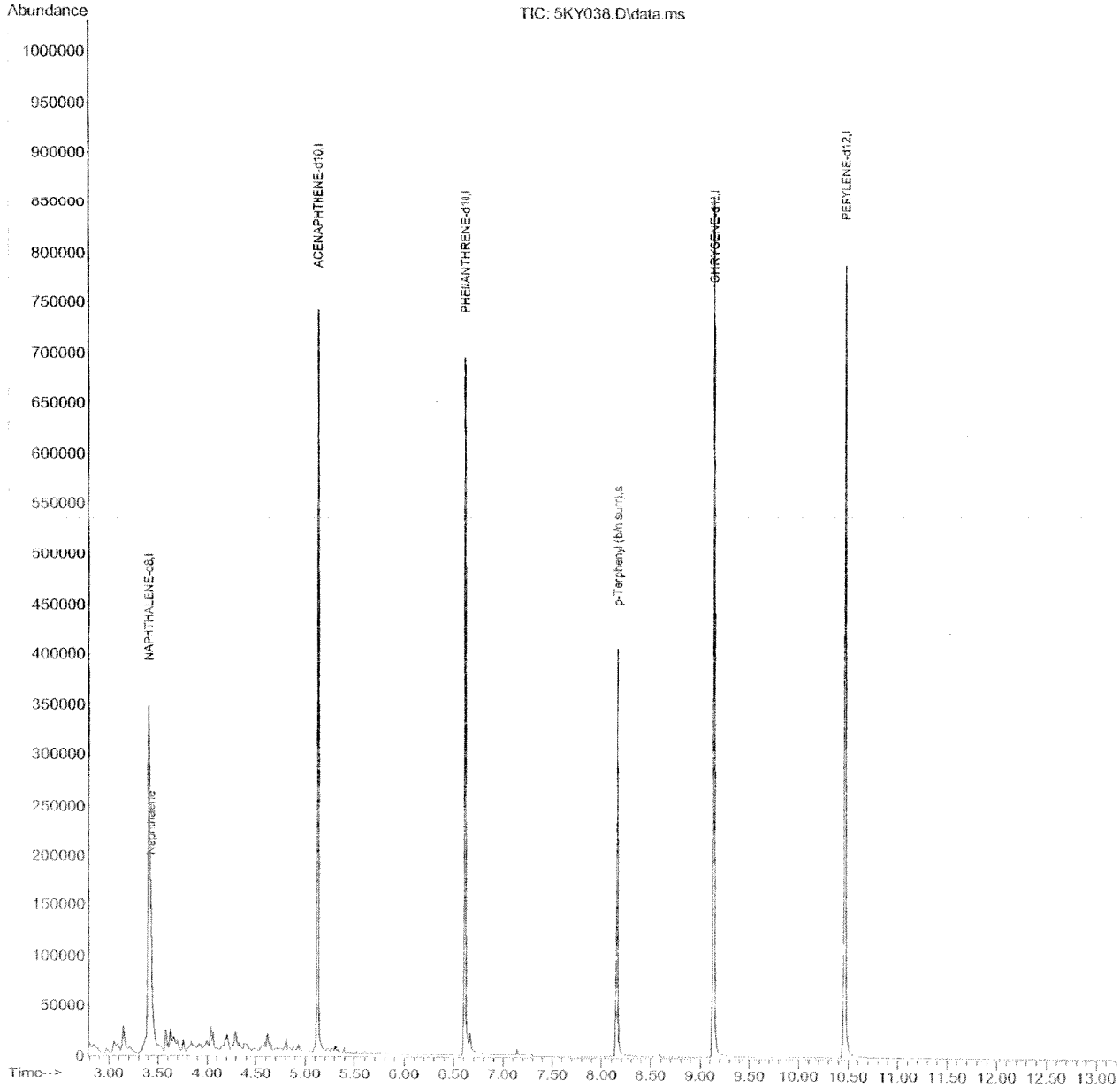
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) NAPHTHALENE-d8	3.40	136	501820	10.00 ug/mL	-0.07
5) ACENAPHTHENE-d10	5.12	164	317315	10.00 ug/mL	-0.06
9) PHENANTHRENE-d10	6.61	188	548783	10.00 ug/mL	-0.06
16) CHRYSENE-d12	9.13	240	686327	10.00 ug/mL	-0.05
19) PERYLENE-d12	10.46	264	719262	10.00 ug/mL	-0.05
System Monitoring Compounds					
14) p-Terphenyl (b/n surr)	8.15	230	252105	3.94 ug/mL	-0.05
Spiked Amount 5.000			Recovery	= 78.80%	
Target Compounds					Qvalue
2) Naphthalene	3.43	128	28127m	0.55 ug/mL	
3) 2-Methylnaphthalene	4.05	142	432	N.D.	
4) 1-Methylnaphthalene	4.18	142	994	N.D.	
6) Acenaphthylene	4.97	152	169	N.D.	
7) Acenaphthene	5.15	154	1137	N.D.	
8) Fluorene	5.67	166	672	N.D.	
10) Phenanthrene	6.63	178	427	N.D.	
11) Anthracene	6.77	178	152	N.D.	
12) Fluoranthene	7.80	202	397	N.D.	
13) Pyrene	8.01	202	508	N.D.	
15) p-Terphenyl	8.15	230	252105	3.94 ug/mL	100
17) Benzo(a)anthracene	9.13	228	1900	N.D.	
18) Chrysene	9.13	228	1900	N.D.	
20) Benzo(b)fluoranthene	0.00	252	0	N.D.	
21) Benzo(k)fluoranthene	0.00	252	0	N.D.	
22) Benzo(a)pyrene	10.46	252	2465	N.D.	
23) Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D. d	
24) Dibenzo(a,h)anthracene	0.00	278	0	N.D.	
25) Benzo(g,h,i)perylene	0.00	276	0	N.D.	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY038.D
Acq On : 30 Nov 2006 22:05
Operator : jj
Sample : B610171-01
Misc : @8270/pah/sim water
ALS Vial : 38 Sample Multiplier: 1

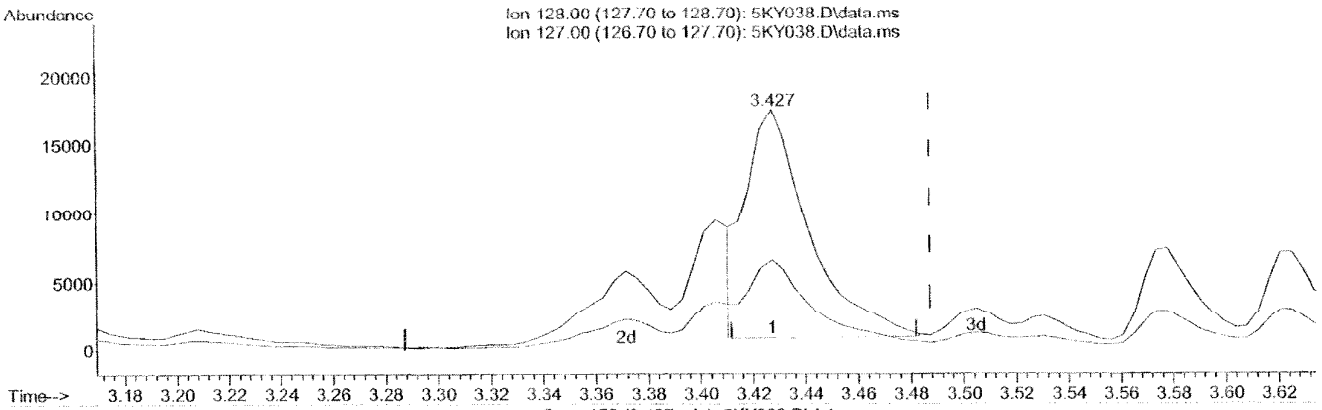
Quant Time: Dec 05 11:23:42 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM 5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration

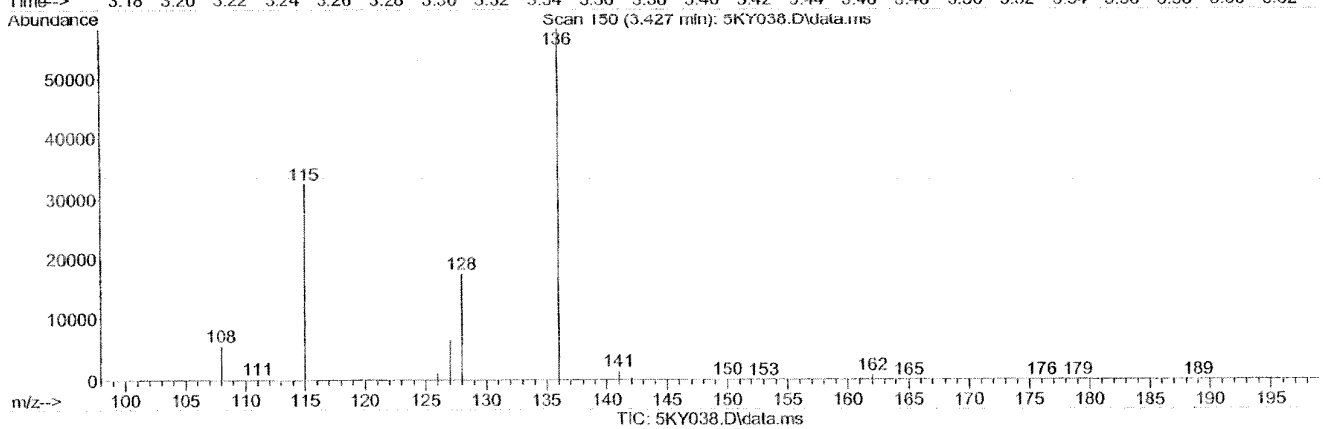


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY038.D
Acq On : 30 Nov 2006 22:05
Operator : jj
Sample : B610171-01
Misc : @8270/pah/sim water
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Dec 05 11:23:42 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration





(2) Naphthalene

3.427min (-0.060) 0.55ug/mL m

response 28127

Ion	Exp%	Act%
128.00	100	100
127.00	12.40	33.13#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY039.D
Acq On : 30 Nov 2006 22:23
Operator : jj
Sample : B610171-02
Misc : @8270/pah/sim water
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Nov 30 22:36:47 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration

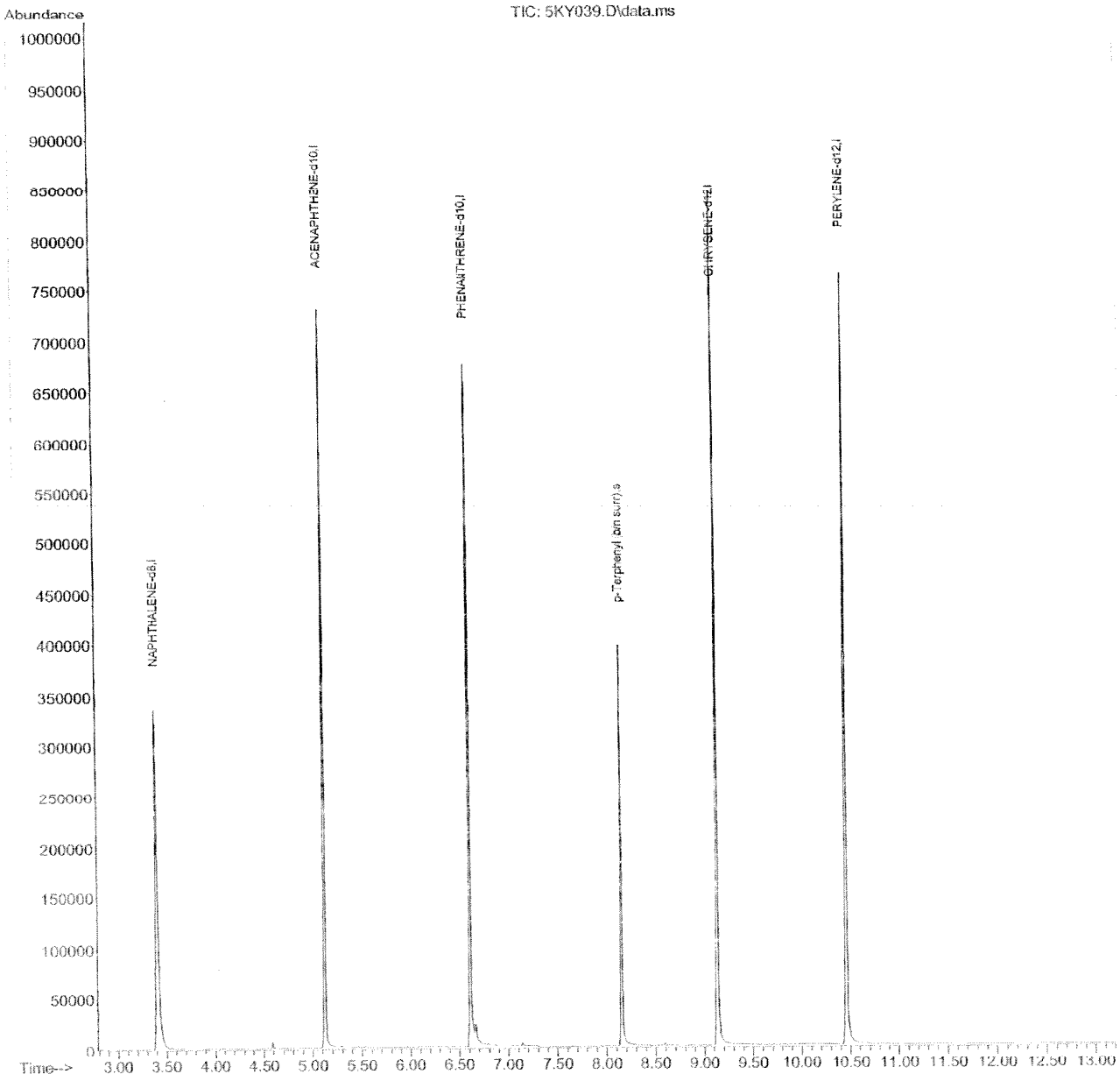
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) NAPHTHALENE-d8	3.40	136	511285	10.00 ug/mL	-0.07
5) ACENAPHTHENE-d10	5.12	164	320520	10.00 ug/mL	-0.06
9) PHENANTHRENE-d10	6.61	188	539208	10.00 ug/mL	-0.06
16) CHRYSENE-d12	9.13	240	680123	10.00 ug/mL	-0.05
19) PERYLENE-d12	10.46	264	704558	10.00 ug/mL	-0.05
System Monitoring Compounds					
14) p-Terphenyl (b/n surr)	8.15	230	247918	3.94 ug/mL	-0.05
Spiked Amount 5.000			Recovery	= 78.80%	
Target Compounds					Qvalue
2) Naphthalene	3.42	128	978	N.D.	
3) 2-Methylnaphthalene	4.08	142	491	N.D.	
4) 1-Methylnaphthalene	4.18	142	204	N.D.	
6) Acenaphthylene	5.09	152	173	N.D.	
7) Acenaphthene	5.12	154	1041	N.D.	
8) Fluorene	5.67	166	102	N.D.	
10) Phenanthrene	6.63	178	300	N.D.	
11) Anthracene	0.00	178	0	N.D.	
12) Fluoranthene	7.80	202	232	N.D.	
13) Pyrene	8.01	202	308	N.D.	
15) p-Terphenyl	8.15	230	247918	3.94 ug/mL	100
17) Benzo(a)anthracene	9.13	228	1822	N.D.	
18) Chrysene	9.13	228	1822	N.D.	
20) Benzo(b)fluoranthene	0.00	252	0	N.D.	
21) Benzo(k)fluoranthene	0.00	252	0	N.D.	
22) Benzo(a)pyrene	10.46	252	2481	N.D.	
23) Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.	
24) Dibenzo(a,h)anthracene	0.00	278	0	N.D.	
25) Benzo(g,h,i)perylene	0.00	276	0	N.D.	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY039.D
Acq On : 30 Nov 2006 22:23
Operator : jj
Sample : B610171-02
Misc : @8270/pah/sim water
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Nov 30 22:36:47 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY040.D
Acq On : 30 Nov 2006 22:41
Operator : jj
Sample : B610171-03
Misc : @8270/pah/sim water
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Dec 05 11:24:02 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration

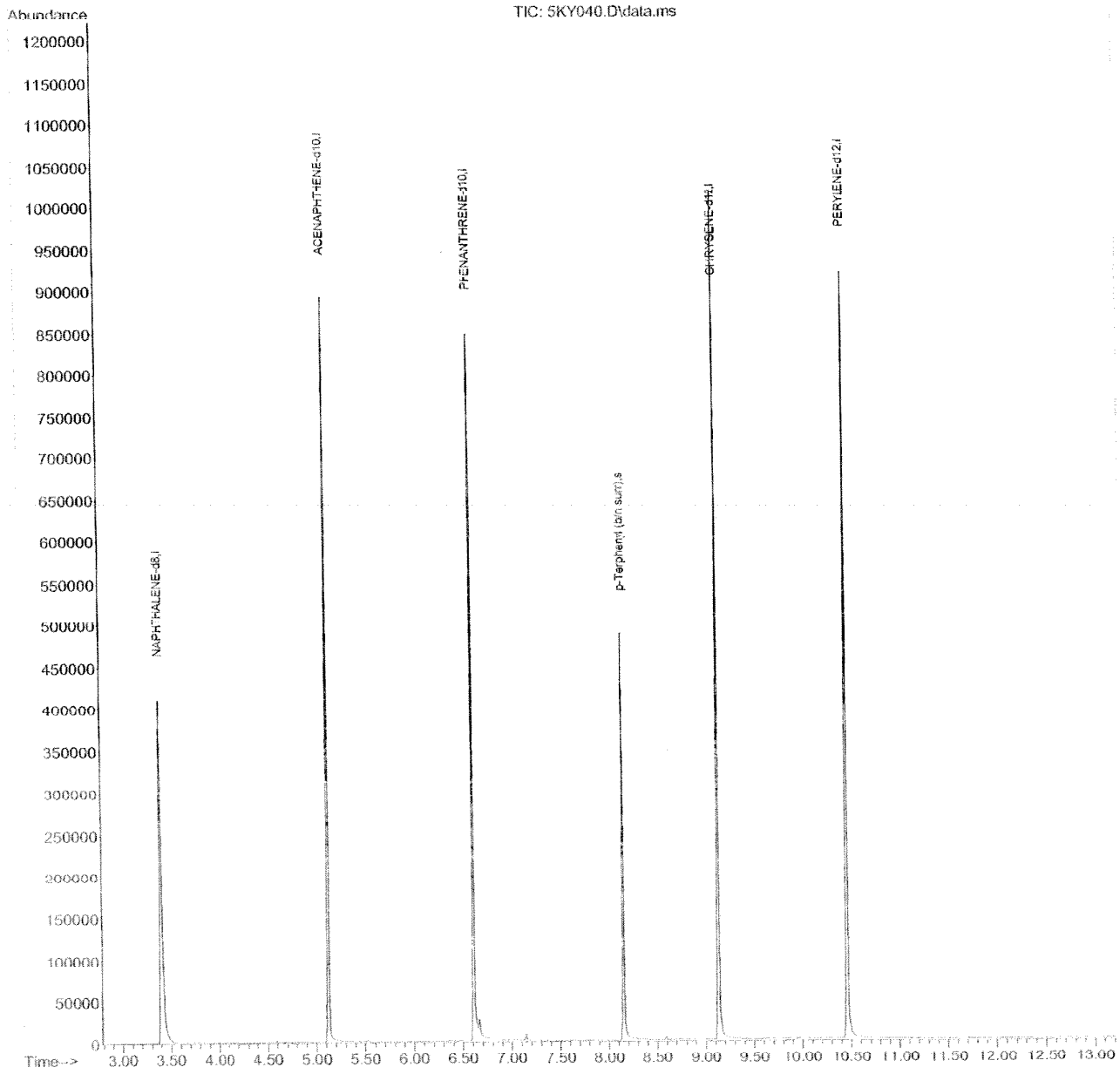
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) NAPHTHALENE-d8	3.40	136	607978	10.00 ug/mL	-0.07
5) ACENAPHTHENE-d10	5.12	164	382936	10.00 ug/mL	-0.06
9) PHENANTHRENE-d10	6.61	188	648014	10.00 ug/mL	-0.06
16) CHRYSENE-d12	9.13	240	815239	10.00 ug/mL	-0.05
19) PERYLENE-d12	10.46	264	851489	10.00 ug/mL	-0.05
System Monitoring Compounds					
14) p-Terphenyl (b/n surr)	8.15	230	311817	4.13 ug/mL	-0.05
Spiked Amount 5.000			Recovery	= 82.60%	
Target Compounds					Qvalue
2) Naphthalene	3.42	128	709	N.D.	
3) 2-Methylnaphthalene	4.08	142	261	N.D.	
4) 1-Methylnaphthalene	4.18	142	180	N.D.	
6) Acenaphthylene	5.09	152	109	N.D.	
7) Acenaphthene	5.12	154	1202	N.D.	
8) Fluorene	5.67	166	107	N.D.	
10) Phenanthrene	6.63	178	418	N.D.	
11) Anthracene	0.00	178	0	N.D.	
12) Fluoranthene	7.79	202	326	N.D.	
13) Pyrene	8.01	202	509	N.D.	
15) p-Terphenyl	8.15	230	311817	4.13 ug/mL	100
17) Benzo(a)anthracene	9.13	228	2162	N.D.	
18) Chrysene	9.13	228	2162	N.D.	
20) Benzo(b)fluoranthene	0.00	252	0	N.D.	
21) Benzo(k)fluoranthene	0.00	252	0	N.D.	
22) Benzo(a)pyrene	10.46	252	2875	N.D.	
23) Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D. d	
24) Dibenzo(a,h)anthracene	0.00	278	0	N.D.	
25) Benzo(g,h,i)perylene	0.00	276	0	N.D.	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY040.D
Acq On : 30 Nov 2006 22:41
Operator : jj
Sample : B610171-03
Misc : @8270/pah/sim water
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Dec 05 11:24:02 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : MSVGCMS1
Data File : 5KY041.D
Acq On : 30 Nov 2006 22:58
Operator : jj
Sample : B610171-04
Misc : @8270/pah/sim water
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Dec 05 11:24:43 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration

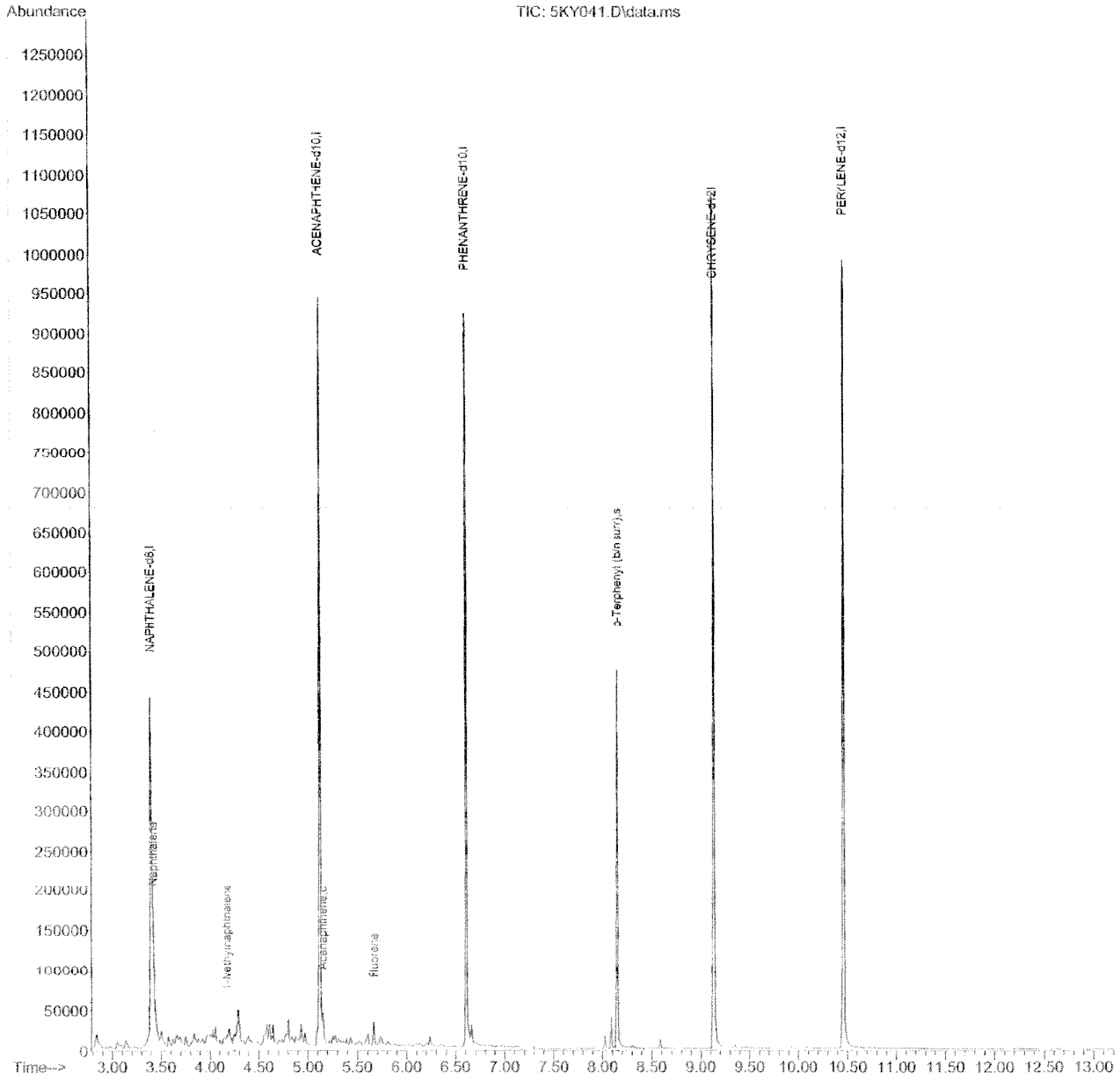
Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) NAPHTHALENE-d8	3.40	136	607592	10.00 ug/mL	-0.07
5) ACENAPHTHENE-d10	5.12	164	394096	10.00 ug/mL	-0.06
9) PHENANTHRENE-d10	6.61	188	708458	10.00 ug/mL	-0.06
16) CHRYSENE-d12	9.13	240	854890	10.00 ug/mL	-0.05
19) PERYLENE-d12	10.46	264	892138	10.00 ug/mL	-0.05
System Monitoring Compounds					
14) p-Terphenyl (b/n surr)	8.15	230	285437	3.45 ug/mL	-0.05
Spiked Amount 5.000			Recovery	= 69.00%	
Target Compounds					Qvalue
2) Naphthalene	3.43	128	16307m	0.26 ug/mL	
3) 2-Methylnaphthalene	4.05	142	640	N.D.	
4) 1-Methylnaphthalene	4.18	142	3584m	0.09 ug/mL	
6) Acenaphthylene	4.97	152	2652	N.D.	
7) Acenaphthene	5.15	154	6828	0.16 ug/mL#	67
8) Fluorene	5.67	166	12019	0.23 ug/mL	91
10) Phenanthrene	6.63	178	3057	N.D.	
11) Anthracene	6.68	178	261	N.D.	
12) Fluoranthene	7.79	202	896	N.D.	
13) Pyrene	8.01	202	922	N.D.	
15) p-Terphenyl	8.15	230	285437	3.45 ug/mL	100
17) Benzo(a)anthracene	9.13	228	2248	N.D.	
18) Chrysene	9.13	228	2248	N.D.	
20) Benzo(b)fluoranthene	0.00	252	0	N.D.	
21) Benzo(k)fluoranthene	10.10	252	158	N.D.	
22) Benzo(a)pyrene	10.46	252	2970	N.D.	
23) Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.	
24) Dibenzo(a,h)anthracene	0.00	278	0	N.D.	
25) Benzo(g,h,i)perylene	0.00	276	0	N.D.	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY041.D
Acq On : 30 Nov 2006 22:58
Operator : jj
Sample : B610171-04
Misc : @8270/pah/sim water
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Dec 05 11:24:43 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration

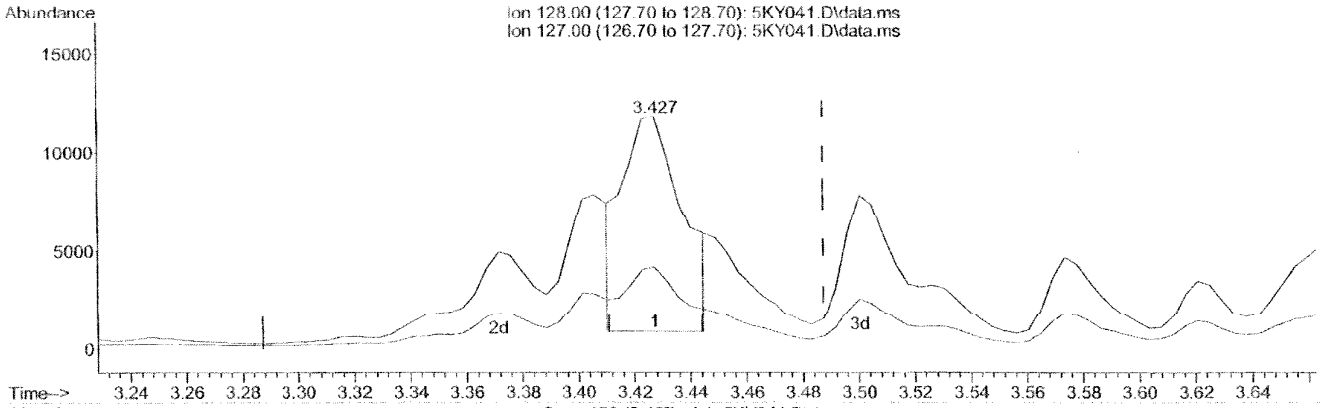


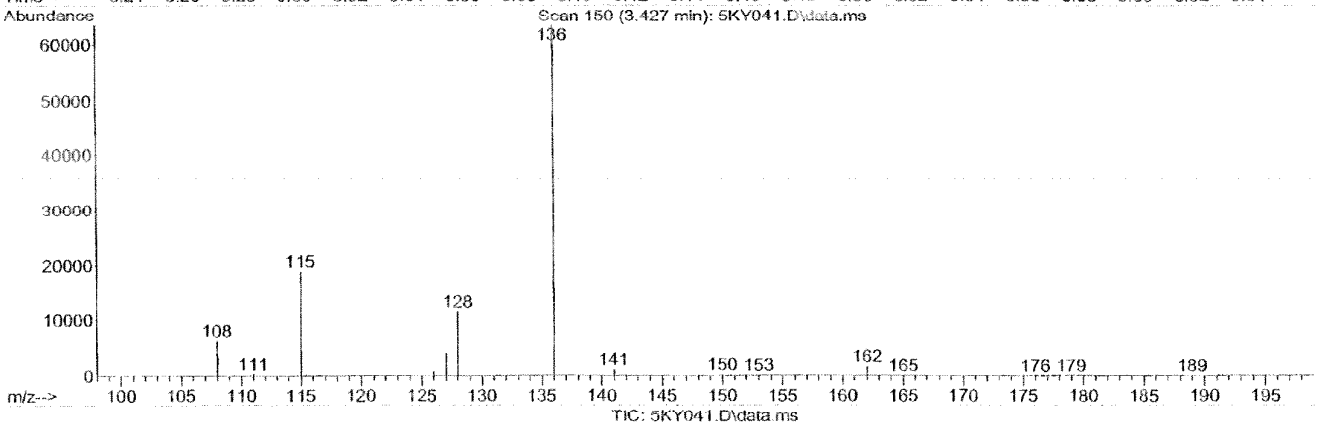
SIM-5K1.M Wed Dec 06 10:13:08 2006 Page: 2

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY041.D
Acq On : 30 Nov 2006 22:58
Operator : jj
Sample : B610171-04
Misc : @8270/pah/sim water
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Dec 05 11:24:43 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration





(2) Naphthalene

3.427min (-0.060) 0.26ug/mL m

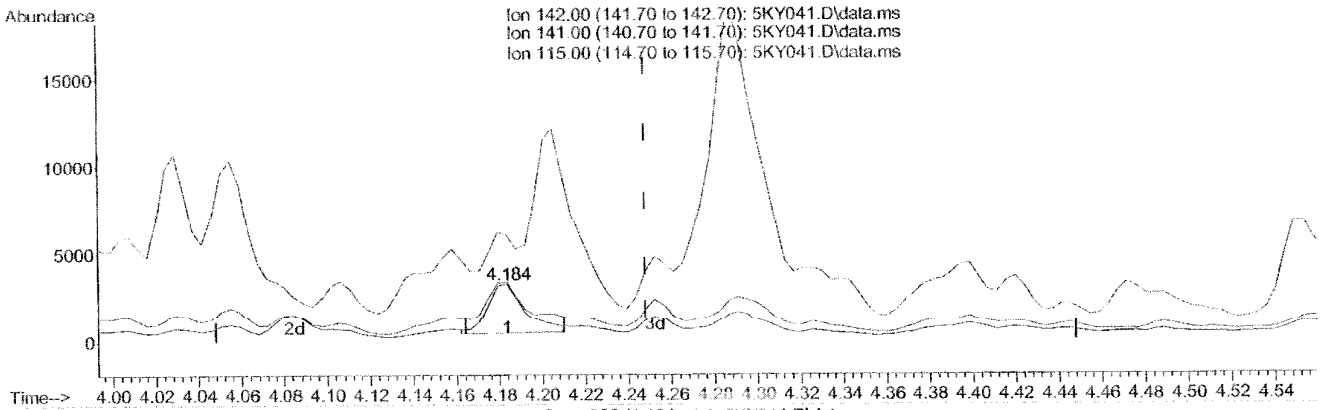
response 16307

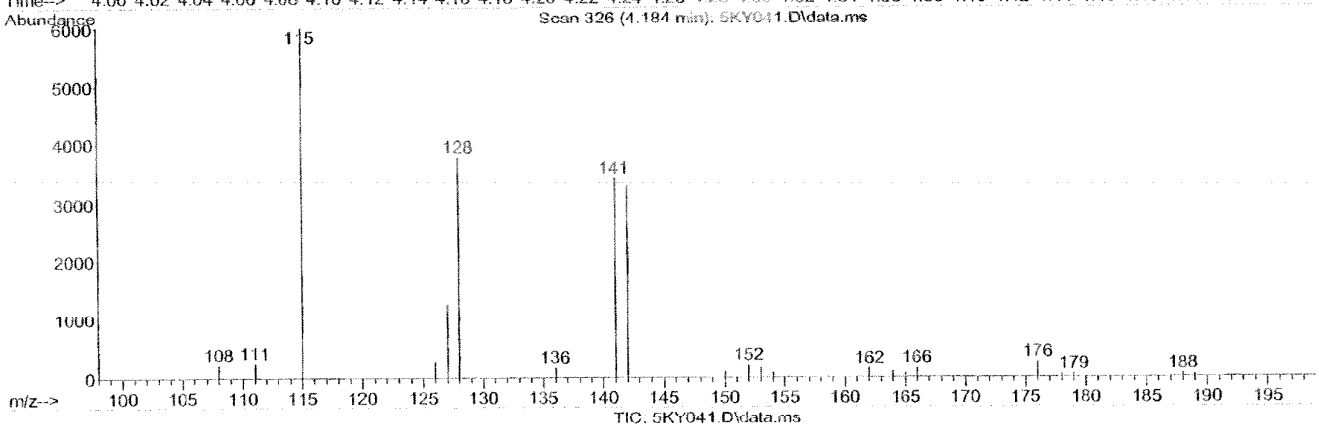
Ion	Exp%	Act%
128.00	100	100
127.00	12.40	43.55#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY041.D
Acq On : 30 Nov 2006 22:58
Operator : jj
Sample : B610171-04
Misc : @0270/pah/sim water
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Dec 05 11:24:43 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration





(4) 1-Methylnaphthalene

4.184min (-0.064) 0.09ug/mL m

response 3584

Ion	Exp%	Act%
142.00	100	100
141.00	88.00	66.46
115.00	34.90	46.99
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY042.D
Acq On : 30 Nov 2006 23:16
Operator : jj
Sample : B610171-05
Misc : @8270/pah/sim water
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Dec 05 11:25:06 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration

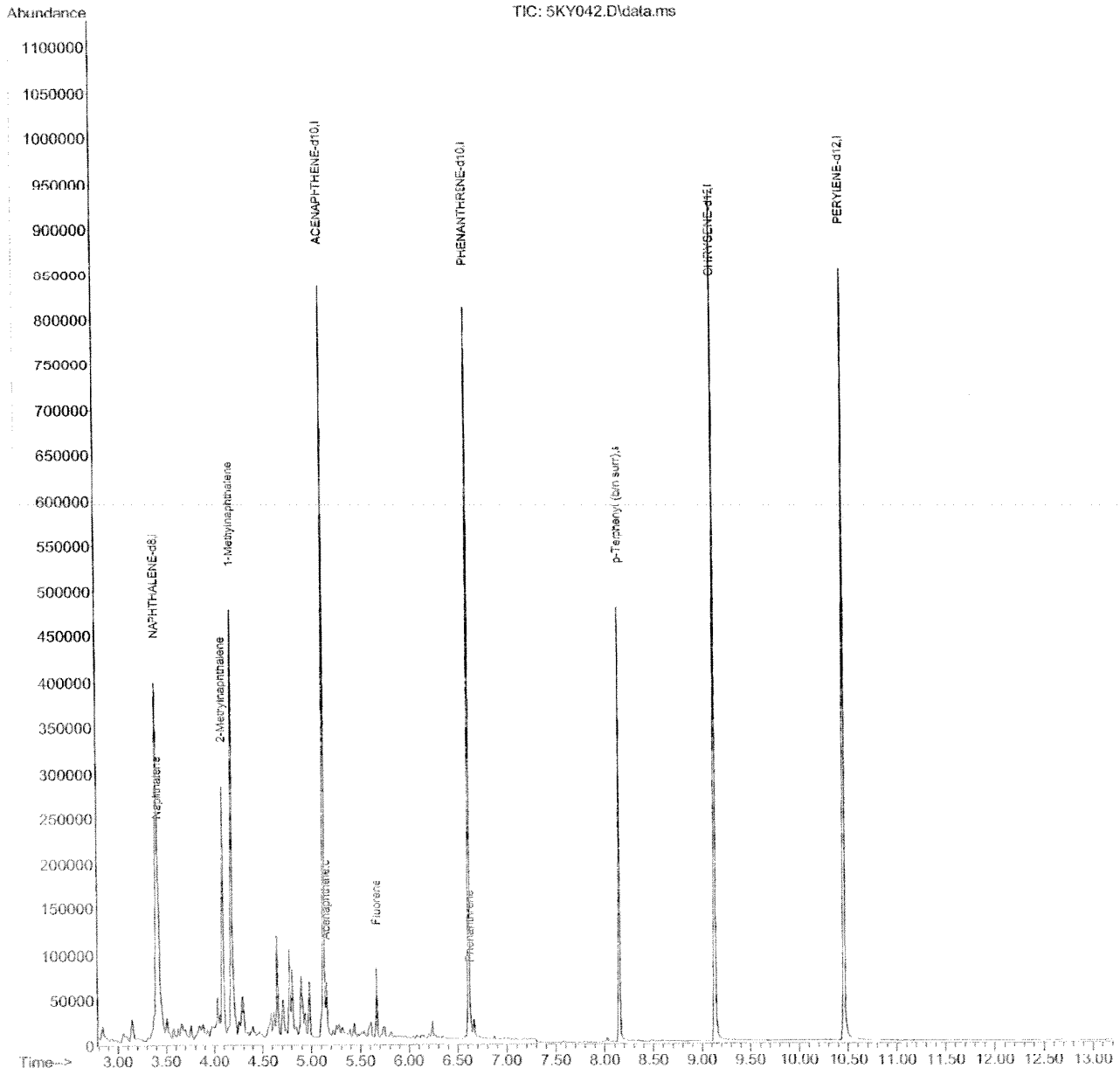
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) NAPHTHALENE-d8	3.40	136	548656	10.00 ug/mL	-0.07
5) ACENAPHTHENE-d10	5.12	164	346724	10.00 ug/mL	-0.06
9) PHENANTHRENE-d10	6.61	188	608960	10.00 ug/mL	-0.06
16) CHRYSENE-d12	9.13	240	730150	10.00 ug/mL	-0.05
19) PERYLENE-d12	10.46	264	761706	10.00 ug/mL	-0.05
System Monitoring Compounds					
14) p-Terphenyl (b/n surr)	8.15	230	274986	3.87 ug/mL	-0.05
Spiked Amount 5.000			Recovery	= 77.40%	
Target Compounds					Qvalue
2) Naphthalene	3.42	128	55859	1.01 ug/mL#	64
3) 2-Methylnaphthalene	4.08	142	154106	4.31 ug/mL	98
4) 1-Methylnaphthalene	4.18	142	238465	6.50 ug/mL	95
6) Acenaphthylene	0.00	152	0	N.D. d	
7) Acenaphthene	5.15	154	10401	0.28 ug/mL#	68
8) Fluorene	5.67	166	29841	0.65 ug/mL	96
10) Phenanthrene	6.63	178	6978	0.10 ug/mL	94
11) Anthracene	6.68	178	575	N.D.	
12) Fluoranthene	7.79	202	622	N.D.	
13) Pyrene	8.01	202	558	N.D.	
15) p-Terphenyl	8.15	230	274986	3.87 ug/mL	100
17) Benzo(a)anthracene	9.13	228	2162	N.D.	
18) Chrysene	9.13	228	2162	N.D.	
20) Benzo(b)fluoranthene	0.00	252	0	N.D.	
21) Benzo(k)fluoranthene	10.10	252	147	N.D.	
22) Benzo(a)pyrene	10.40	252	114	N.D.	
23) Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.	
24) Dibenzo(a,h)anthracene	0.00	278	0	N.D.	
25) Benzo(g,h,i)perylene	0.00	276	0	N.D.	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY042.D
Acq On : 30 Nov 2006 23:16
Operator : jj
Sample : B610171-05
Misc : @8270/pah/sim water
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Dec 05 11:25:06 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY043.D
Acq On : 30 Nov 2006 23:33
Operator : jj
Sample : B610171-06
Misc : @8270/pah/sim water
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Dec 05 11:25:29 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration

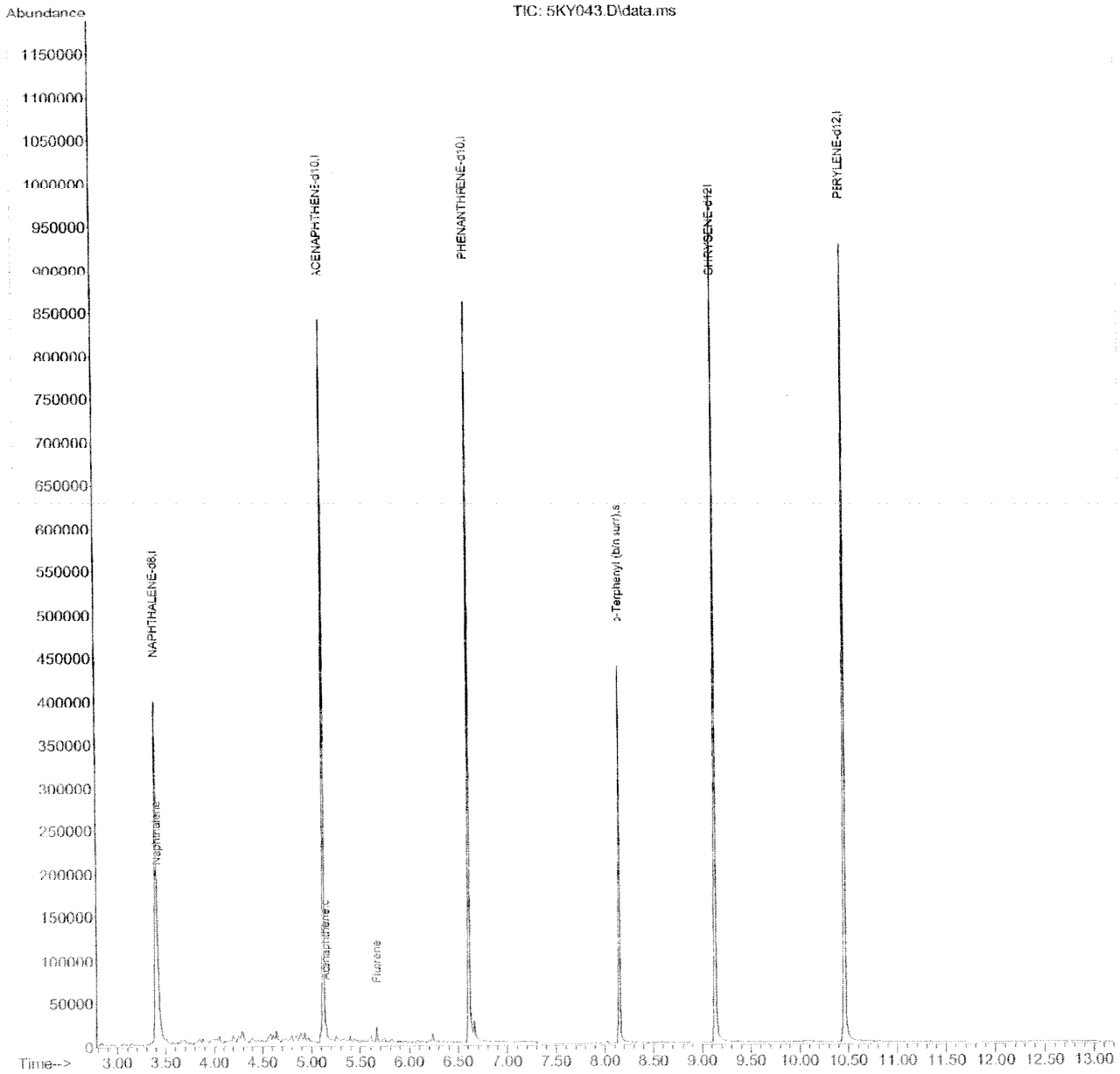
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) NAPHTHALENE-d8	3.40	136	582909	10.00 ug/mL	-0.07
5) ACENAPHTHENE-d10	5.12	164	368598	10.00 ug/mL	-0.06
9) PHENANTHRENE-d10	6.61	188	642012	10.00 ug/mL	-0.06
16) CHRYSENE-d12	9.13	240	780454	10.00 ug/mL	-0.05
19) PERYLENE-d12	10.46	264	814615	10.00 ug/mL	-0.05
System Monitoring Compounds					
14) p-Terphenyl (b/n surr)	8.15	230	267157	3.57 ug/mL	-0.05
Spiked Amount 5.000			Recovery = 71.40%		
Target Compounds					Qvalue
2) Naphthalene	3.42	128	4262m	0.07 ug/mL	
3) 2-Methylnaphthalene	4.05	142	165	N.D.	
4) 1-Methylnaphthalene	4.15	142	396	N.D.	
6) Acenaphthylene	4.97	152	728	N.D.	
7) Acenaphthene	5.15	154	2983	0.08 ug/mL	81
8) Fluorene	5.67	166	7064	0.15 ug/mL	94
10) Phenanthrene	6.63	178	3597	N.D.	
11) Anthracene	6.68	178	341	N.D.	
12) Fluoranthene	7.79	202	309	N.D.	
13) Pyrene	8.01	202	366	N.D.	
15) p-Terphenyl	8.15	230	267157	3.57 ug/mL	100
17) Benzo(a)anthracene	9.13	228	2107	N.D.	
18) Chrysene	9.13	228	2107	N.D.	
20) Benzo(b)fluoranthene	0.00	252	0	N.D.	
21) Benzo(k)fluoranthene	0.00	252	0	N.D.	
22) Benzo(a)pyrene	10.46	252	2756	N.D.	
23) Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.	
24) Dibenzo(a,h)anthracene	0.00	278	0	N.D.	
25) Benzo(g,h,i)perylene	0.00	276	0	N.D.	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY043.D
Acq On : 30 Nov 2006 23:33
Operator : jj
Sample : B610171-06
Misc : @8270/pah/sim water
ALS Vial : 43 Sample Multiplier: 1

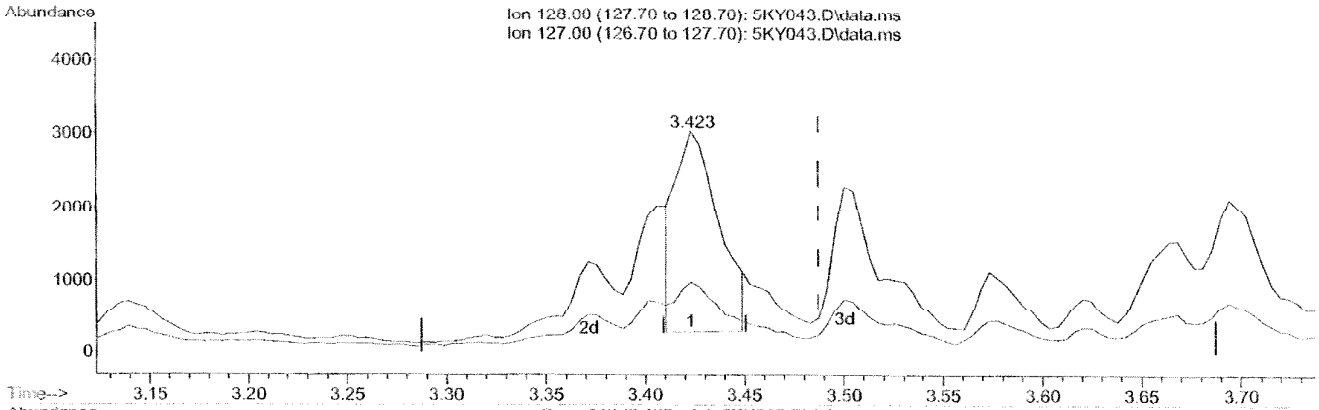
Quant Time: Dec 05 11:25:29 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration

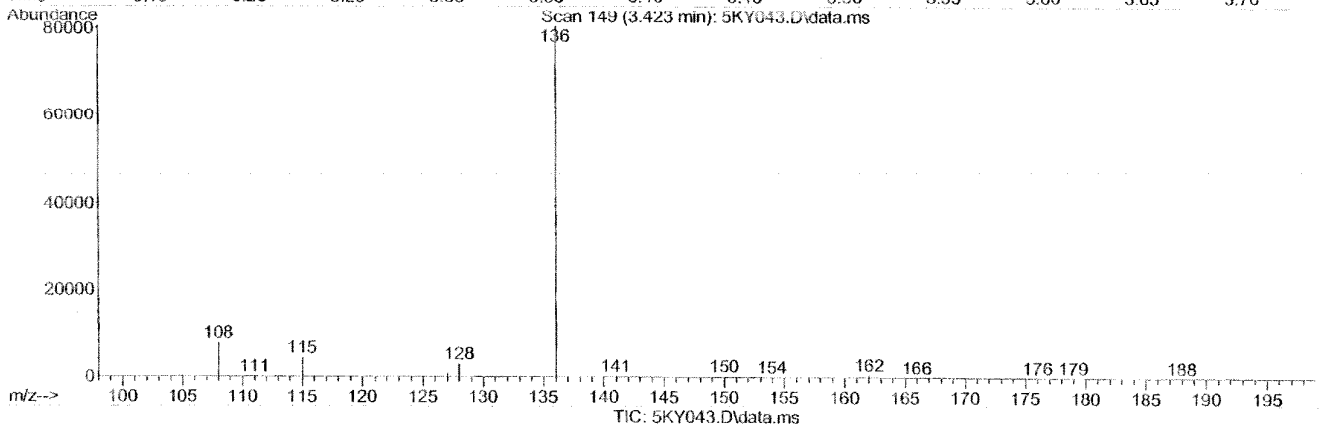


Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY043.D
Acq On : 30 Nov 2006 23:33
Operator : jj
Sample : B610171-06
Misc : @8270/pah/sim water
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Dec 05 11:25:29 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration





(2) Naphthalene

3.423min (-0.064) 0.07ug/mL m

response 4262

Ion	Exp%	Act%
128.00	100	100
127.00	12.40	50.38#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY044.D
Acq On : 30 Nov 2006 23:51
Operator : jj
Sample : B610171-07
Misc : @8270/pah/sim water
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Dec 01 00:04:47 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration

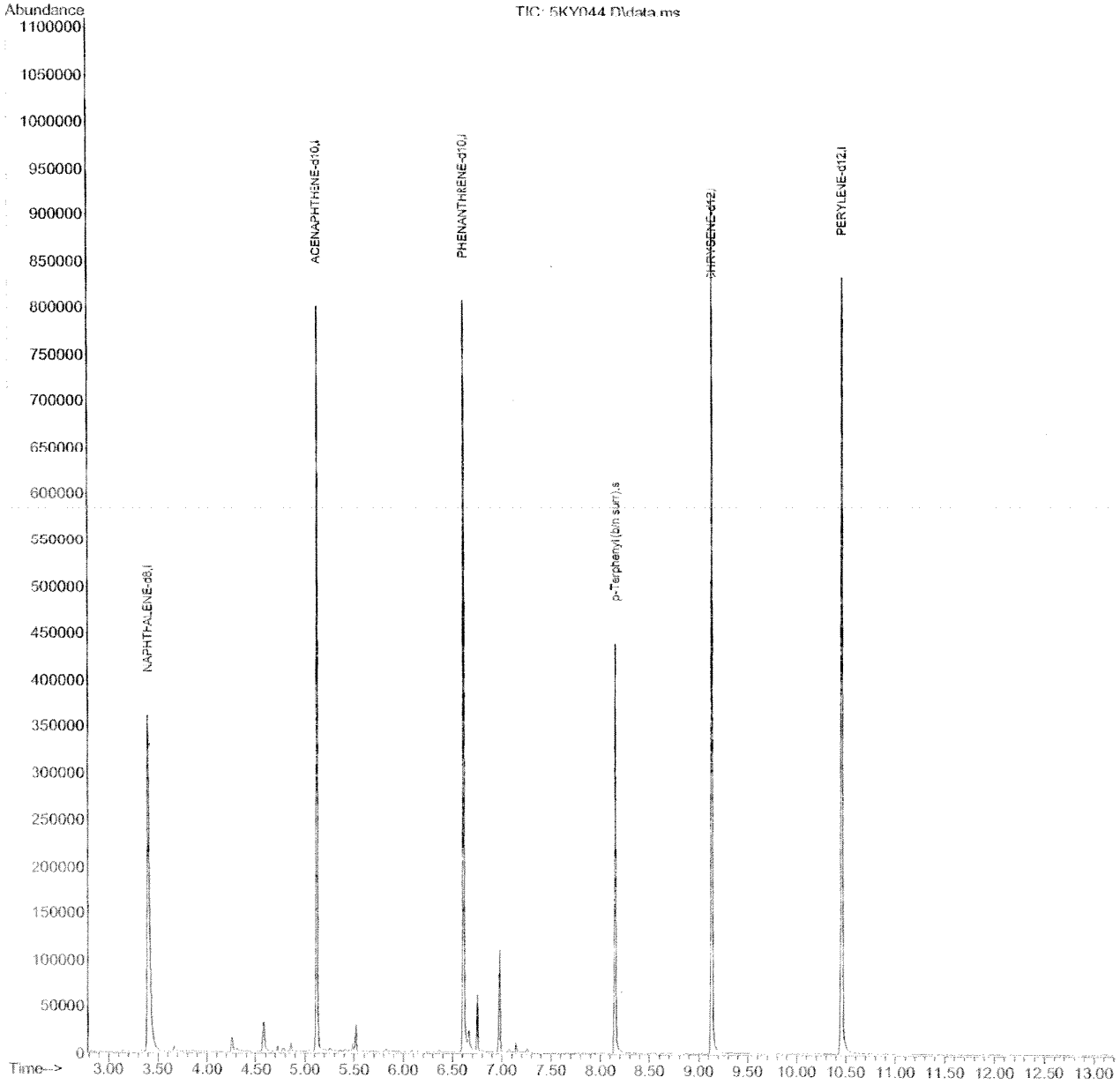
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) NAPHTHALENE-d8	3.40	136	543746	10.00 ug/mL	-0.07
5) ACENAPHTHENE-d10	5.12	164	345930	10.00 ug/mL	-0.06
9) PHENANTHRENE-d10	6.61	188	606415	10.00 ug/mL	-0.06
16) CHRYSENE-d12	9.13	240	729230	10.00 ug/mL	-0.05
19) PERYLENE-d12	10.46	264	759658	10.00 ug/mL	-0.05
System Monitoring Compounds					
14) p-Terphenyl (b/n surr)	8.15	230	266932	3.77 ug/mL	-0.05
Spiked Amount 5.000			Recovery	= 75.40%	
Target Compounds					Qvalue
2) Naphthalene	3.41	128	1234	N.D.	
3) 2-Methylnaphthalene	4.08	142	324	N.D.	
4) 1-Methylnaphthalene	4.18	142	350	N.D.	
6) Acenaphthylene	5.03	152	136	N.D.	
7) Acenaphthene	5.12	154	1579	N.D.	
8) Fluorene	5.67	166	197	N.D.	
10) Phenanthrene	6.63	178	600	N.D.	
11) Anthracene	6.75	178	126	N.D.	
12) Fluoranthene	7.80	202	253	N.D.	
13) Pyrene	8.01	202	273	N.D.	
15) p-Terphenyl	8.15	230	266932	3.77 ug/mL	100
17) Benzo(a)anthracene	9.13	228	1998	N.D.	
18) Chrysene	9.13	228	1998	N.D.	
20) Benzo(b)fluoranthene	0.00	252	0	N.D.	
21) Benzo(k)fluoranthene	10.10	252	112	N.D.	
22) Benzo(a)pyrene	10.46	252	2498	N.D.	
23) Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.	
24) Dibenzo(a,h)anthracene	0.00	278	0	N.D.	
25) Benzo(g,h,i)perylene	0.00	276	0	N.D.	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY044.D
Acq On : 30 Nov 2006 23:51
Operator : jj
Sample : B610171-07
Misc : @8270/pah/sim water
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Dec 01 00:04:47 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration



SIM-5K1.M Wed Dec 06 10:14:17 2006

Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY045.D
Acq On : 1 Dec 2006 00:09
Operator : jj
Sample : B610171-08
Misc : @8270/pah/sim water
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 05 11:26:24 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration

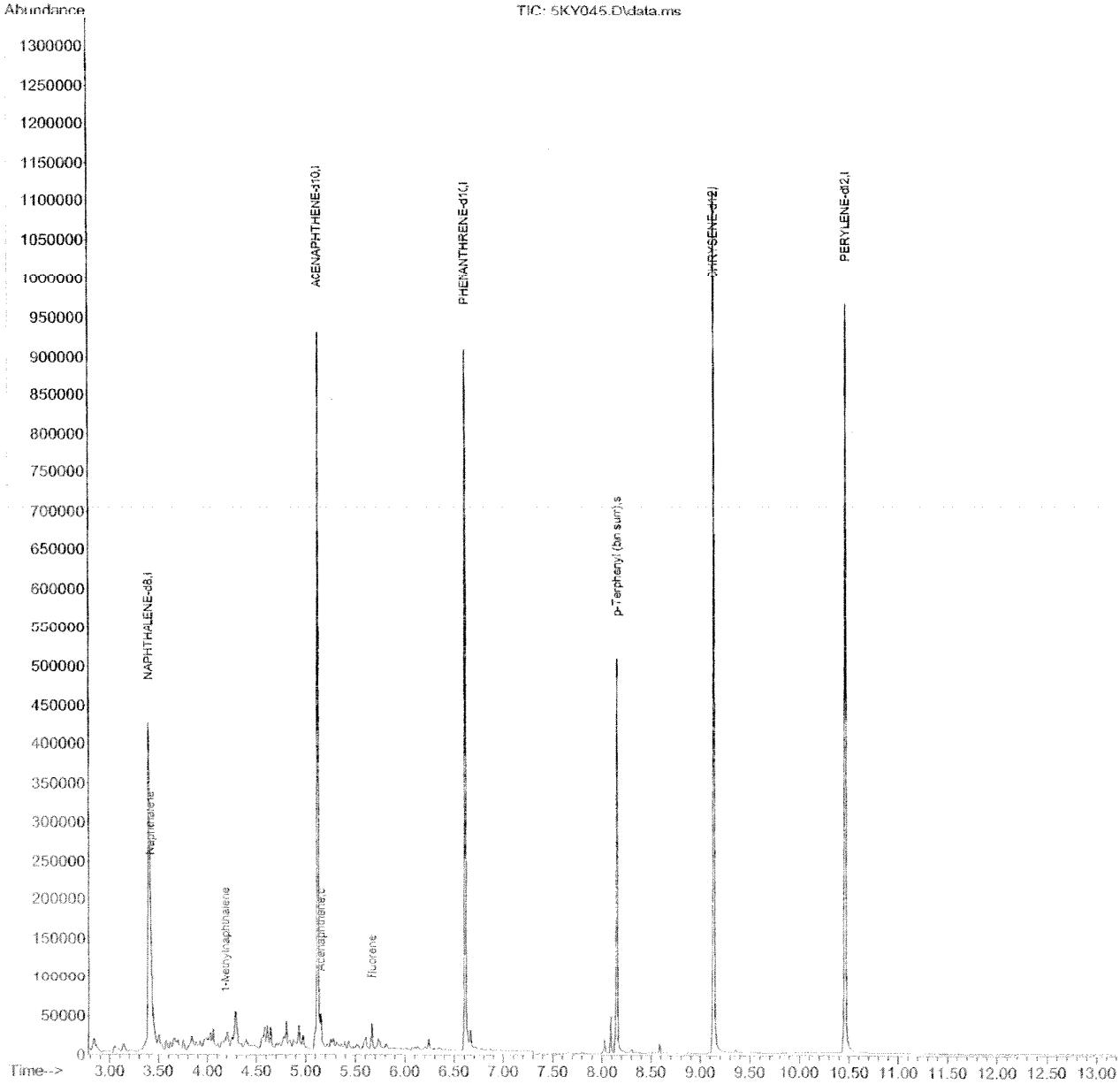
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) NAPHTHALENE-d8	3.40	136	620346	10.00 ug/mL	-0.07
5) ACENAPHTHENE-d10	5.12	164	392302	10.00 ug/mL	-0.06
9) PHENANTHRENE-d10	6.61	188	685464	10.00 ug/mL	-0.06
16) CHRYSENE-d12	9.13	240	842256	10.00 ug/mL	-0.05
19) PERYLENE-d12	10.46	264	890281	10.00 ug/mL	-0.05
System Monitoring Compounds					
14) p-Terphenyl (b/n surr)	8.15	230	302677	3.79 ug/mL	-0.05
Spiked Amount 5.000			Recovery	= 75.80%	
Target Compounds					Qvalue
2) Naphthalene	3.42	128	18424m	0.29 ug/mL	
3) 2-Methylnaphthalene	4.05	142	688	N.D.	
4) 1-Methylnaphthalene	4.18	142	3389m	0.08 ug/mL	
6) Acenaphthylene	4.97	152	3087	N.D.	
7) Acenaphthene	5.15	154	7601	0.18 ug/mL#	67
8) Fluorene	5.67	166	13701	0.27 ug/mL	93
10) Phenanthrene	6.63	178	3211	N.D.	
11) Anthracene	6.68	178	256	N.D.	
12) Fluoranthene	7.79	202	1369	N.D.	
13) Pyrene	8.01	202	1198	N.D.	
15) p-Terphenyl	8.15	230	302677	3.79 ug/mL	100
17) Benzo(a)anthracene	9.13	228	2219	N.D.	
18) Chrysene	9.13	228	2219	N.D.	
20) Benzo(b)fluoranthene	0.00	252	0	N.D.	
21) Benzo(k)fluoranthene	10.12	252	193	N.D.	
22) Benzo(a)pyrene	10.46	252	2971	N.D.	
23) Indeno(1,2,3-cd)pyrene	0.00	276	0	N.D.	
24) Dibenzo(a,h)anthracene	0.00	278	0	N.D.	
25) Benzo(g,h,i)perylene	0.00	276	0	N.D.	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY045.D
Acq On : 1 Dec 2006 00:09
Operator : jj
Sample : B610171-08
Misc : @8270/pah/sim water
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 05 11:26:24 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration



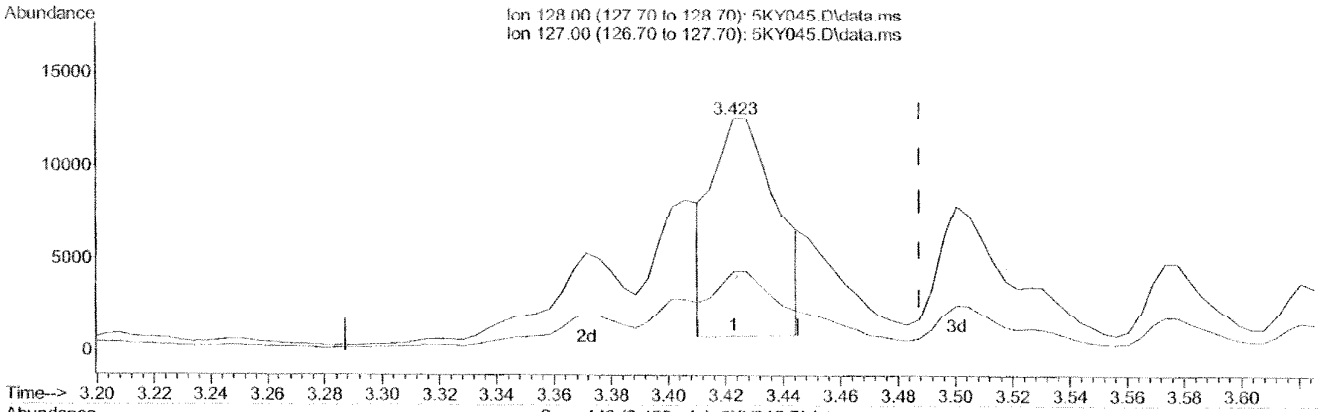
SIM-5K1.M Wed Dec 06 10:14:35 2006

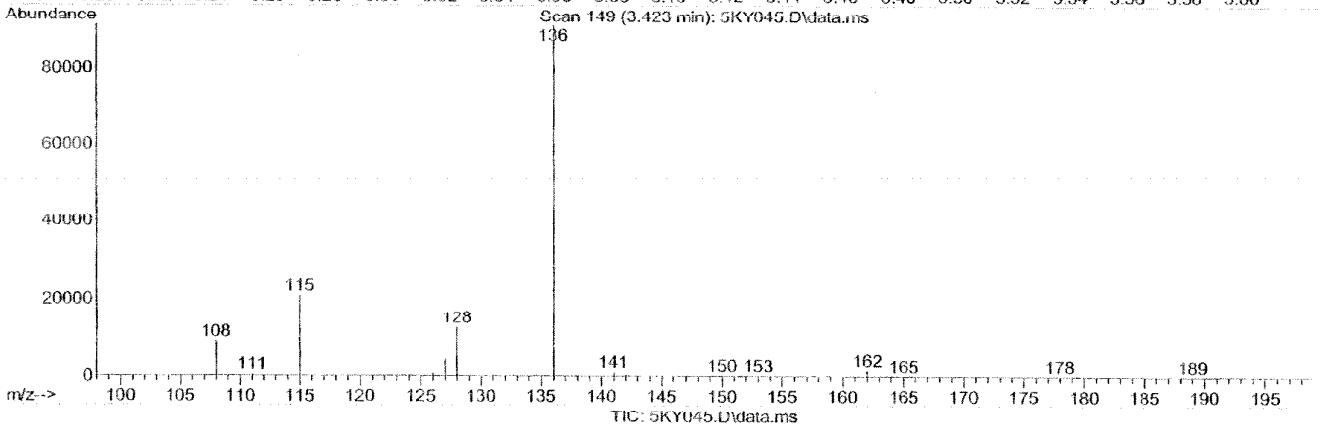
Page: 2

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY045.D
Acq On : 1 Dec 2006 00:09
Operator : jj
Sample : B610171-08
Misc : @8270/pah/sim water
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 05 11:26:24 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration





(2) Naphthalene

3.423min (-0.064) 0.29ug/ml m

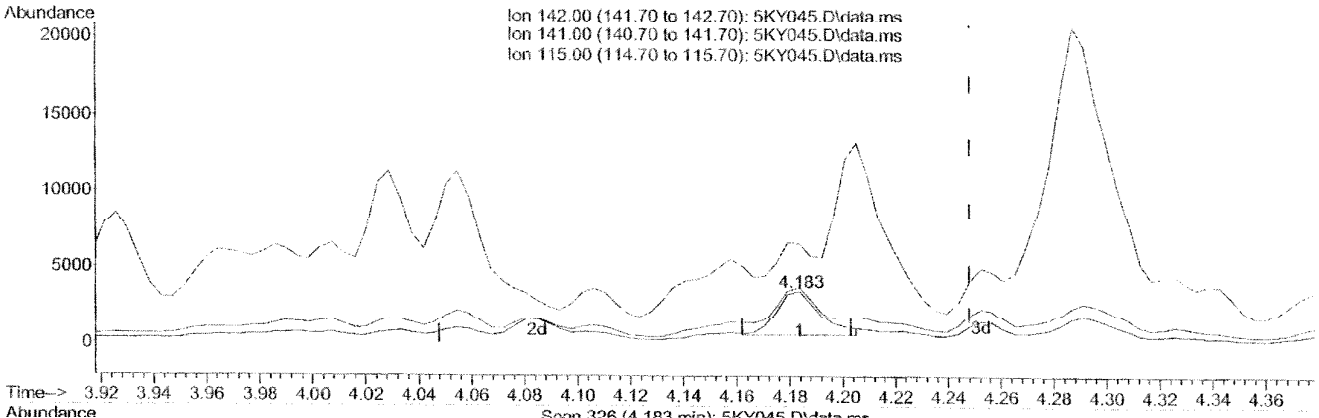
response 18424

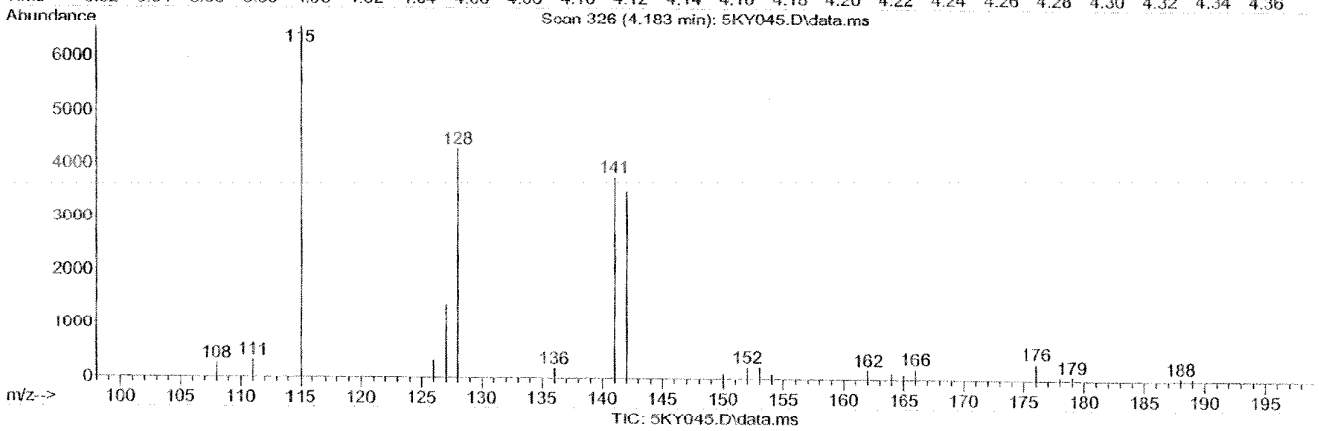
Ion	Exp%	Act%
128.00	100	100
127.00	12.40	57.76#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\5KY\
InstName : JSVGCMS1
Data File : 5KY045.D
Acq On : 1 Dec 2006 00:09
Operator : jj
Sample : B610171-08
Misc : @8270/pah/sim water
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 05 11:26:24 2006
Quant Method : C:\MSDCHEM\1\METHODS\SIM-5K1.M
Quant Title : 8270/PAH/SIM curve SIM-5K1 on 11/03/06 (25ug/mL)
QLast Update : Fri Nov 03 13:24:05 2006
Response via : Initial Calibration





(4) 1-Methylnaphthalene

4.183min (-0.064) 0.08ug/mL m

response 3389

Ion	Exp%	Act%
142.00	100	100
141.00	88.00	83.83
115.00	34.90	60.37#
0.00	0.00	0.00

SEMIVOLATILES PREPRATION LOG

PREPARATION BENCH SHEET

Printed: 11/28/06 7:20:22AM

Analysis
8270C PAH SIM

6K28001
ENCO Jacksonville

Prepared using: EPA 3510C_MS

Surrogate Solution
B6K0077 8270/pah/sim water surrogate

Spiking Solution
B6I0134 8270/pah/sim water spike

Matrix: Water

Lab Number	Sample ID, Source and Sample Location	Due Date	Analysis	Prepared	Initial (mL)	Final (mL)	Ul Spike	Ul Surrogate	Extraction Comments
6K28001-BLK1	Blank		QC	11 28	500	0.5		500	
6K28001-BS1	LCS		QC				500	500	
6K28001-MS1	Matrix Spke [B610162-01]		QC				500	500	
6K28001-MSD1	Matrix Spke Dup [B610162-01]		QC				500	500	
B610125-01	TW-1 A[E20]	01-Dec-06	8270C PAH SIM					500	
B610125-02	TW-2 A[E20]	01-Dec-06	8270C PAH SIM					500	
B610162-01	1 A[E20]	01-Dec-06	8270C PAH SIM					500	
B610171-01	CEF-81-15S-02 A[E20]	05-Dec-06	8270C PAH SIM					500	
B610171-02	CEF-81-17S-02 A[E20]	05-Dec-06	8270C PAH SIM					500	
B610171-03	CEF-81-18S-02 A[E20]	05-Dec-06	8270C PAH SIM					500	
B610171-04	CEF-81-18I-02 A[E20]	05-Dec-06	8270C PAH SIM					500	
B610171-05	CEF-81-19I-02 A[E20]	05-Dec-06	8270C PAH SIM					500	
B610171-06	CEF-81-20I-02 A[E20]	05-Dec-06	8270C PAH SIM					500	
B610171-07	CEF-81-EB01-02 A[E20]	05-Dec-06	8270C PAH SIM					500	
B610171-08	CEF-81-DUP01-02 A[E20]	05-Dec-06	8270C PAH SIM					500	

Start Date/Time _____

StopDate/Time _____

Standard ID#	Description	Manufacture
B6J0160	Methylene Chloride Tank	60602
B6K0094	SODIUM SULFATE	Solvent Lot #

Spiking Witnessed By _____ Date _____

Preparation Reviewed By JAE 11 28 06 Date _____

Extracts Received By _____ Date _____

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Data Summary Package	4
Volatiles Calibration Data	33
Volatiles QC Data	74
Volatiles Raw Data	96

CASE NARRATIVE

Volatiles Fraction

Tetra Tech NUS, Inc/NAS Cecil Field CTO #0025

Project Manger Dave Siefken

SDG BR006-002

Lab Sample ID	Client Sample ID
B610171-01	CEF-81-15S-02
B610171-02	CEF-81-17S-02
B610171-03	CEF-81-16S-02
B610171-04	CEF-81-18I-02
B610171-05	CEF-81-19I-02
B610171-06	CEF-81-20I-02
B610171-07	CEF-81-EB01-02
B610171-08	CEF-81-DUP01-02

The samples were analyzed by USEPA Method 8260B (VOA vial field sampling followed by purge and trap then capillary column GC/MS) for waters upon receipt to the laboratory in satisfactory condition.

The volatile analyses for these samples were satisfactorily completed within sample holding times and met the corresponding specifications with the following note/exceptions:

- Due to insufficient sample, the MS/MSD were performed on an alternative sample not related to this project.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Released By:
Environmental Conservation Laboratories, Inc.

Christina Tompkins

Digitally signed by Christina Tompkins
DN: cn=Christina Tompkins, email=ctompkins@encolabs.com, c=US
Date: 2007.05.03 08:58:32 -04'00'

Christina M. Tompkins
Project Manager

B610171

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 2434 | PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G00378	CTO 25 / SITE 81ABC	ROB SIMCIK	(412) 921-8163	ENCO
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
Terry Cottenoir		TERRY COTTENOIR	(904) 636-6125	4810 EXECUTIVE PARK COURT, STE 211
		CARRIER/WAYBILL NUMBER		CITY, STATE
		DROP OFF AT LAB		JACKSONVILLE, FL

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G G
PRESERVATIVE USED: HCL –

DATE YEAR 2006	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: VOCs / 8260B	PAHs / 831D							COMMENTS
11/21	1010	CEF-81-15S-02				GW	G	4	X	X							COOL TO 4°C
	1138	CEF-81-17S-02							X	X							
	1349	CEF-81-16S-02							X	X							PROJECT NAME:
11/22	0942	CEF-81-18I-02						4	X	X							NAS Cecil Field, FL,
	1047	CEF-81-19I-02							X	X							CTO 25
	1158	CEF-81-20I-02							X	X							
	1220	CEF-81-EB01-02				QC	G	4	X	X							
	0000	CEF-81-DUP01-02				GW	G	4	X	X							

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY Terry Cottenoir	11/22/06	1400	1. RECEIVED BY C. Tompkins	11/22/06	14:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

ENCO Jacksonville

SDG: BR006-002

CLASS: GCMS

METHOD: EPA 8260B

ANALYSES DATA PACKAGE COVER PAGE

EPA 8260B

Laboratory: ENCO Jacksonville

SDG: BR006-002

Client: Tetra Tech NUS (BR006)

Project: NAS Cecil Field CTO #0025

Client Sample Id:	Lab Sample Id:
CEF-81-15S-02	B610171-01
CEF-81-17S-02	B610171-02
CEF-81-16S-02	B610171-03
CEF-81-18I-02	B610171-04
CEF-81-19I-02	B610171-05
CEF-81-20I-02	B610171-06
CEF-81-EB01-02	B610171-07
CEF-81-DUP01-02	B610171-08

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Christina Tompkins

Name: Christina Tompkins

Date: 5/3/07

Title: Project Manager

PREPARATION BATCH SUMMARY

EPA 8260B

Laboratory: ENCO Jacksonville SDG: BR006-002

Client: Tetra Tech NUS (BR006) Project: NAS Cecil Field CTO #0025

Batch: 6L04023 Batch Matrix: Water Preparation: EPA 5030B_MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	6L04023-BLK1	7L4004.D	12/04/06 09:00	
Blank	6L04023-BLK2	7L4030.D	12/04/06 09:00	
LCS	6L04023-BS1	7L4005.D	12/04/06 09:00	
MW-8	6L04023-MS1	7L4006.D	12/04/06 09:00	
MW-8	6L04023-MSD1	7L4007.D	12/04/06 09:00	
CEF-81-15S-02	B610171-01	7L4018.D	12/04/06 09:00	
CEF-81-17S-02	B610171-02	7L4019.D	12/04/06 09:00	
CEF-81-16S-02	B610171-03	7L4020.D	12/04/06 09:00	
CEF-81-18I-02	B610171-04	7L4021.D	12/04/06 09:00	
CEF-81-19I-02	B610171-05	7L4022.D	12/04/06 09:00	
CEF-81-20I-02	B610171-06	7L4023.D	12/04/06 09:00	
CEF-81-EB01-02	B610171-07	7L4024.D	12/04/06 09:00	
CEF-81-DUP01-02	B610171-08	7L4031.D	12/04/06 09:00	

ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)	Project:	NAS Cecil Field CTO #0025
Sequence:	BA00076	Instrument:	JVGCMS1
Matrix:	Water	Calibration:	0612004

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	BA00076-TUN1	7L4001.D	12/04/06 09:59
Calibration Check	BA00076-CCV1	7L4002.D	12/04/06 10:30
Blank	6L04023-BLK1	7L4004.D	12/04/06 11:31
LCS	6L04023-BS1	7L4005.D	12/04/06 12:02
MW-8	6L04023-MS1	7L4006.D	12/04/06 12:33
MW-8	6L04023-MSD1	7L4007.D	12/04/06 13:04
CEF-81-15S-02	B610171-01	7L4018.D	12/04/06 18:42
CEF-81-17S-02	B610171-02	7L4019.D	12/04/06 19:13
CEF-81-16S-02	B610171-03	7L4020.D	12/04/06 19:43
CEF-81-18I-02	B610171-04	7L4021.D	12/04/06 20:14
CEF-81-19I-02	B610171-05	7L4022.D	12/04/06 20:45
CEF-81-20I-02	B610171-06	7L4023.D	12/04/06 21:15
CEF-81-EB01-02	B610171-07	7L4024.D	12/04/06 21:46
MS Tune	BA00076-TUN2	7L4026.D	12/04/06 22:47
Calibration Check	BA00076-CCV2	7L4027.D	12/04/06 23:18
Blank	6L04023-BLK2	7L4030.D	12/05/06 00:50
CEF-81-DUP01-02	B610171-08	7L4031.D	12/05/06 01:21

HOLDING TIME SUMMARY

EPA 8260B

Laboratory: ENCO Jacksonville SDG: BR006-002

Client: Tetra Tech NUS (BR006) Project: NAS Cecil Field CTO #0025

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	O
CEF-81-15S-02	11/21/06 10:10	11/22/06 14:00	12/04/06 09:00	12.95	NA	12/04/06 18:42	13.00	14.00	
CEF-81-17S-02	11/21/06 11:38	11/22/06 14:00	12/04/06 09:00	12.89	NA	12/04/06 19:13	13.00	14.00	
CEF-81-16S-02	11/21/06 13:49	11/22/06 14:00	12/04/06 09:00	12.80	NA	12/04/06 19:43	13.00	14.00	
CEF-81-18I-02	11/22/06 09:42	11/22/06 14:00	12/04/06 09:00	11.97	NA	12/04/06 20:14	12.00	14.00	
CEF-81-19I-02	11/22/06 10:47	11/22/06 14:00	12/04/06 09:00	11.93	NA	12/04/06 20:45	12.00	14.00	
CEF-81-20I-02	11/22/06 11:58	11/22/06 14:00	12/04/06 09:00	11.88	NA	12/04/06 21:15	12.00	14.00	
CEF-81-EB01-02	11/22/06 12:20	11/22/06 14:00	12/04/06 09:00	11.86	NA	12/04/06 21:46	12.00	14.00	
CEF-81-DUP01-02	11/22/06 00:00	11/22/06 14:00	12/04/06 09:00	12.38	NA	12/05/06 01:21	13.00	14.00	

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

CEF-81-15S-02

Laboratory:	ENCO Jacksonville			SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)			Project:	NAS Cecil Field CTO #0025
Matrix:	Water	Laboratory ID:	B610171-01	File ID:	7L4018.D
Sampled:	11/21/06 10:10	Prepared:	12/04/06 09:00	Analyzed:	12/04/06 18:42
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Batch: 6L04023 Sequence: BA00076 Calibration: 0612004 Instrument: JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
1634-04-4	Methyl-tert-Butyl Ether	1	0.20	U	0.20	1.0
71-43-2	Benzene	1	0.20	U	0.20	1.0
108-88-3	Toluene	1	0.20	U	0.20	1.0
100-41-4	Ethylbenzene	1	0.30	U	0.30	1.0
98-82-8	Isopropylbenzene	1	0.10	U	0.10	1.0
108-67-8	1,3,5-Trimethylbenzene	1	0.20	U	0.20	1.0
95-63-6	1,2,4-Trimethylbenzene	1	0.20	U	0.20	1.0
NA	Xylenes (Total)	1	0.30	U	0.30	1.0

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/L)	Q
017059-48-2	1H-Indene, 2,3-dihydro-1,6-dim	19.41	7.1	IN
027133-93-3	2,3-Dihydro-1-methylindene	18.94	4.0	IN
000767-99-7	Benzene, (1-methyl-1-propenyl)	18.15	7.6	I
000768-49-0	Benzene, (2-methyl-1-propenyl)	18.09	4.6	IN
000496-11-7	Indane	17.62	4.5	I
003877-19-8	Naphthalene, 1,2,3,4-tetrahydr (01)	19.77	3.1	IN
001559-81-5	Naphthalene, 1,2,3,4-tetrahydr (02)	19.86	2.7	IN
000091-57-6	Naphthalene, 2-methyl-	21.45	2.0	IN
NA	unknown1	20.81	1.8	I

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	50.6	101	66 - 131	
Toluene-d8	50.0	49.9	100	67 - 139	
4-Bromofluorobenzene	50.0	49.0	98	60 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	273658	11.43	265238	11.42	
1,4-Difluorobenzene	628166	12.09	603997	12.08	
Chlorobenzene-d5	649720	15.27	646439	15.26	
1,4-Dichlorobenzene-d4	285476	17.46	310542	17.45	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

CEF-81-17S-02

Laboratory:	ENCO Jacksonville			SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)			Project:	NAS Cecil Field CTO #0025
Matrix:	Water	Laboratory ID:	B610171-02	File ID:	7L4019.D
Sampled:	11/21/06 11:38	Prepared:	12/04/06 09:00	Analyzed:	12/04/06 19:13
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Batch: 6L04023 Sequence: BA00076 Calibration: 0612004 Instrument: JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
1634-04-4	Methyl-tert-Butyl Ether	1	0.20	U	0.20	1.0
71-43-2	Benzene	1	0.20	U	0.20	1.0
108-88-3	Toluene	1	0.20	U	0.20	1.0
100-41-4	Ethylbenzene	1	0.30	U	0.30	1.0
98-82-8	Isopropylbenzene	1	0.10	U	0.10	1.0
108-67-8	1,3,5-Trimethylbenzene	1	0.20	U	0.20	1.0
95-63-6	1,2,4-Trimethylbenzene	1	0.20	U	0.20	1.0
NA	Xylenes (Total)	1	0.30	U	0.30	1.0

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/L)	Q
000090-12-0	Naphthalene, 1-methyl-	21.45	0.71	IN

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	48.4	97	66 - 131	
Toluene-d8	50.0	50.7	101	67 - 139	
4-Bromofluorobenzene	50.0	49.9	100	60 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	275269	11.43	265238	11.42	
1,4-Difluorobenzene	617566	12.09	603997	12.08	
Chlorobenzene-d5	651353	15.27	646439	15.26	
1,4-Dichlorobenzene-d4	294127	17.45	310542	17.45	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

CEF-81-16S-02

Laboratory:	ENCO Jacksonville			SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)			Project:	NAS Cecil Field CTO #0025
Matrix:	Water	Laboratory ID:	B610171-03	File ID:	7L4020.D
Sampled:	11/21/06 13:49	Prepared:	12/04/06 09:00	Analyzed:	12/04/06 19:43
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Batch: 6L04023 Sequence: BA00076 Calibration: 0612004 Instrument: JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
1634-04-4	Methyl-tert-Butyl Ether	1	0.20	U	0.20	1.0
71-43-2	Benzene	1	0.20	U	0.20	1.0
108-88-3	Toluene	1	0.20	U	0.20	1.0
100-41-4	Ethylbenzene	1	0.30	U	0.30	1.0
98-82-8	Isopropylbenzene	1	0.10	U	0.10	1.0
108-67-8	1,3,5-Trimethylbenzene	1	0.20	U	0.20	1.0
95-63-6	1,2,4-Trimethylbenzene	1	0.20	U	0.20	1.0
NA	Xylenes (Total)	1	0.30	U	0.30	1.0

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/L)	Q
NA	unknown1	4	1.3	I
NA	unknown2	4.78	1.2	I

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	49.5	99	66 - 131	
Toluene-d8	50.0	49.8	100	67 - 139	
4-Bromofluorobenzene	50.0	49.2	98	60 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	272196	11.42	265238	11.42	
1,4-Difluorobenzene	629743	12.09	603997	12.08	
Chlorobenzene-d5	660431	15.27	646439	15.26	
1,4-Dichlorobenzene-d4	292989	17.46	310542	17.45	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

CEF-81-181-02

Laboratory:	ENCO Jacksonville			SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)			Project:	NAS Cecil Field CTO #0025
Matrix:	Water	Laboratory ID:	B610171-04	File ID:	7L4021.D
Sampled:	11/22/06 09:42	Prepared:	12/04/06 09:00	Analyzed:	12/04/06 20:14
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Batch: 6L04023 Sequence: BA00076 Calibration: 0612004 Instrument: JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
1634-04-4	Methyl-tert-Butyl Ether	1	0.20	U	0.20	1.0
71-43-2	Benzene	1	0.20	U	0.20	1.0
108-88-3	Toluene	1	0.46	I	0.20	1.0
100-41-4	Ethylbenzene	1	0.30	U	0.30	1.0
98-82-8	Isopropylbenzene	1	1.0		0.10	1.0
108-67-8	1,3,5-Trimethylbenzene	1	0.20	U	0.20	1.0
95-63-6	1,2,4-Trimethylbenzene	1	0.20	U	0.20	1.0
NA	Xylenes (Total)	1	0.30	U	0.30	1.0

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/L)	Q
004175-53-5	1H-Indene, 2,3-dihydro-1,3-dim (01)	18.31	1.7	IN
004175-53-5	1H-Indene, 2,3-dihydro-1,3-dim (02)	19.41	3.7	I
054340-85-1	Benzene, 1-(2-butenyl)-2,3-dim	19.53	1.6	I
007525-62-4	Benzene, 1-ethenyl-3-ethyl-	18.09	2.2	I
NA	unknown1	3.78	2.9	I
NA	unknown2	4.01	2.3	I
NA	unknown3	8.09	2.2	I
NA	unknown4	19.76	1.7	I
NA	unknown5	21.4	1.5	I

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	50.3	101	66 - 131	
Toluene-d8	50.0	48.8	98	67 - 139	
4-Bromofluorobenzene	50.0	48.1	96	60 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	264795	11.43	265238	11.42	
1,4-Difluorobenzene	623516	12.09	603997	12.08	
Chlorobenzene-d5	660141	15.27	646439	15.26	
1,4-Dichlorobenzene-d4	290451	17.46	310542	17.45	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

CEF-81-191-02

Laboratory:	ENCO Jacksonville			SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)			Project:	NAS Cecil Field CTO #0025
Matrix:	Water	Laboratory ID:	B610171-05	File ID:	7L4022.D
Sampled:	11/22/06 10:47	Prepared:	12/04/06 09:00	Analyzed:	12/04/06 20:45
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Batch: 6L04023 Sequence: BA00076 Calibration: 0612004 Instrument: JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
1634-04-4	Methyl-tert-Butyl Ether	1	0.20	U	0.20	1.0
71-43-2	Benzene	1	0.20	U	0.20	1.0
108-88-3	Toluene	1	0.20	U	0.20	1.0
100-41-4	Ethylbenzene	1	0.73	I	0.30	1.0
98-82-8	Isopropylbenzene	1	2.8		0.10	1.0
108-67-8	1,3,5-Trimethylbenzene	1	0.20	U	0.20	1.0
95-63-6	1,2,4-Trimethylbenzene	1	0.20	U	0.20	1.0
NA	Xylenes (Total)	1	0.30	U	0.30	1.0

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/L)	Q
040650-41-7	1H-Indene, 2,3-dihydro-1,1,5-t	19.52	2.4	IN
017057-82-8	1H-Indene, 2,3-dihydro-1,2-dim	19.32	3.1	IN
017059-48-2	1H-Indene, 2,3-dihydro-1,6-dim	19.41	5.3	IN
000824-22-6	1H-Indene, 2,3-dihydro-4-methy	18.93	4.4	IN
001587-04-8	Benzene, 1-methyl-2-(2-propeny	18.08	3.1	I
000767-58-8	Indan, 1-methyl-	18.14	3.1	IN
003877-19-8	Naphthalene, 1,2,3,4-tetrahydr (01)	19.77	2.2	I
001559-81-5	Naphthalene, 1,2,3,4-tetrahydr (02)	20.81	2.8	I

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	50.2	100	66 - 131	
Toluene-d8	50.0	49.6	99	67 - 139	
4-Bromofluorobenzene	50.0	49.5	99	60 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	272962	11.43	265238	11.42	
1,4-Difluorobenzene	633113	12.09	603997	12.08	
Chlorobenzene-d5	662315	15.27	646439	15.26	
1,4 Dichlorobenzene d4	292165	17.45	310542	17.45	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

EPA 8260B

CEF-81-20I-02

Laboratory:	ENCO Jacksonville			SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)			Project:	NAS Cecil Field CTO #0025
Matrix:	Water	Laboratory ID:	B610171-06	File ID:	7L4023.D
Sampled:	11/22/06 11:58	Prepared:	12/04/06 09:00	Analyzed:	12/04/06 21:15
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Batch: 6L04023 Sequence: BA00076 Calibration: 0612004 Instrument: JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
1634-04-4	Methyl-tert-Butyl Ether	1	0.20	U	0.20	1.0
71-43-2	Benzene	1	0.20	U	0.20	1.0
108-88-3	Toluene	1	0.33	I	0.20	1.0
100-41-4	Ethylbenzene	1	0.30	U	0.30	1.0
98-82-8	Isopropylbenzene	1	0.23	I	0.10	1.0
108-67-8	1,3,5-Trimethylbenzene	1	0.20	U	0.20	1.0
95-63-6	1,2,4-Trimethylbenzene	1	0.20	U	0.20	1.0
NA	Xylenes (Total)	1	0.30	U	0.30	1.0

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/L)	Q
056253-64-6	Benzene, (2-methyl-1-butenyl)-	19.42	0.98	I
000116-15-4	Propene, hexafluoro-	3.78	3.3	IN
NA	unknown1	8.08	1.9	I
NA	unknown2	20.82	0.54	I

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	50.2	100	66 - 131	
Toluene-d8	50.0	50.8	102	67 - 139	
4-Bromofluorobenzene	50.0	49.5	99	60 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	278756	11.43	265238	11.42	
1,4-Difluorobenzene	621792	12.09	603997	12.08	
Chlorobenzene-d5	668272	15.27	646439	15.26	
1,4-Dichlorobenzene-d4	296533	17.45	310542	17.45	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

CEF-81-EB01-02

Laboratory:	ENCO Jacksonville			SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)			Project:	NAS Cecil Field CTO #0025
Matrix:	Water	Laboratory ID:	B610171-07	File ID:	7L4024.D
Sampled:	11/22/06 12:20	Prepared:	12/04/06 09:00	Analyzed:	12/04/06 21:46
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Batch: 6L04023 Sequence: BA00076 Calibration: 0612004 Instrument: JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
1634-04-4	Methyl-tert-Butyl Ether	1	0.20	U	0.20	1.0
71-43-2	Benzene	1	0.20	U	0.20	1.0
108-88-3	Toluene	1	0.20	U	0.20	1.0
100-41-4	Ethylbenzene	1	0.30	U	0.30	1.0
98-82-8	Isopropylbenzene	1	0.10	U	0.10	1.0
108-67-8	1,3,5-Trimethylbenzene	1	0.20	U	0.20	1.0
95-63-6	1,2,4-Trimethylbenzene	1	0.20	U	0.20	1.0
NA	Xylenes (Total)	1	0.30	U	0.30	1.0

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/L)	Q
NA	unknown1	14.89	0.93	I

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	50.7	101	66 - 131	
Toluene-d8	50.0	49.1	98	67 - 139	
4-Bromofluorobenzene	50.0	50.2	100	60 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	265622	11.42	265238	11.42	
1,4-Difluorobenzene	635928	12.09	603997	12.08	
Chlorobenzene-d5	658608	15.27	646439	15.26	
1,4-Dichlorobenzene-d4	297392	17.46	310542	17.45	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
EPA 8260B

CEF-81-DUP01-02

Laboratory:	ENCO Jacksonville			SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)			Project:	NAS Cecil Field CTO #0025
Matrix:	Water	Laboratory ID:	B610171-08	File ID:	7L4031.D
Sampled:	11/22/06 00:00	Prepared:	12/04/06 09:00	Analyzed:	12/05/06 01:21
Solids:		Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Batch: 6L04023 Sequence: BA00076 Calibration: 0612004 Instrument: JVGCMS1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	MDL	MRL
1634-04-4	Methyl-tert-Butyl Ether	1	0.20	U	0.20	1.0
71-43-2	Benzene	1	0.20	U	0.20	1.0
108-88-3	Toluene	1	0.20	U	0.20	1.0
100-41-4	Ethylbenzene	1	0.30	U	0.30	1.0
98-82-8	Isopropylbenzene	1	1.2		0.10	1.0
108-67-8	1,3,5-Trimethylbenzene	1	0.20	U	0.20	1.0
95-63-6	1,2,4-Trimethylbenzene	1	0.20	U	0.20	1.0
NA	Xylenes (Total)	1	0.30	U	0.30	1.0

CAS NO.	TENTATIVELY IDENTIFIED COMPOUND	RT	EST. CONC. (ug/L)	Q
001005-64-7	(E)-1-Phenyl-1-butene	18.09	2.6	IN
017059-48-2	1H-Indene, 2,3-dihydro-1,6-dim	18.32	1.6	IN
006682-71-9	1H-Indene, 2,3-dihydro-4,7-dim	19.41	4.3	IN
000874-35-1	1H-Indene, 2,3-dihydro-5-methy	18.93	1.3	I
005557-93-7	Benzene, 1-(1-methylethenyl)-2	19.52	1.8	IN
000116-15-4	Propene, hexafluoro-	3.77	2.6	I
NA	unknown1	19.77	2.4	I

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	50.3	101	66 - 131	
Toluene-d8	50.0	49.4	99	67 - 139	
4-Bromofluorobenzene	50.0	49.7	99	60 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	273753	11.42	272130	11.42	
1,4-Difluorobenzene	637772	12.08	622558	12.08	
Chlorobenzene-d5	658067	15.27	680015	15.27	
1,4-Dichlorobenzene-d4	292855	17.46	316961	17.46	

* Values outside of QC limits

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Jacksonville			SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)			Project:	NAS Cecil Field CTO #0025
Matrix:	Water	Laboratory ID:	6L04023-BLK1	File ID:	7L4004.D
Prepared:	12/04/06 09:00	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	12/04/06 11:31	Instrument:	JVGCMS1		
Batch:	6L04023	Sequence:	BA00076	Calibration:	0612004

CAS NO.	COMPOUND	CONC. (ug/L)	Q
1634-04-4	Methyl-tert-Butyl Ether	0.20	U
71-43-2	Benzene	0.20	U
108-88-3	Toluene	0.20	U
100-41-4	Ethylbenzene	0.30	U
98-82-8	Isopropylbenzene	0.10	U
108-67-8	1,3,5-Trimethylbenzene	0.20	U
95-63-6	1,2,4-Trimethylbenzene	0.20	U
NA	Xylenes (Total)	0.30	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	52.9	106	66 - 131	
Toluene-d8	50.0	50.2	100	67 - 139	
4-Bromofluorobenzene	50.0	49.1	98	60 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	256251	11.43	265238	11.42	
1,4-Difluorobenzene	596983	12.09	603997	12.08	
Chlorobenzene-d5	623605	15.27	646439	15.26	
1,4-Dichlorobenzene-d4	280370	17.45	310542	17.45	

METHOD BLANK DATA SHEET
EPA 8260B

Laboratory:	ENCO Jacksonville		SDG:	BR006-002	
Client:	Tetra Tech NUS (BR006)		Project:	NAS Cecil Field CTO #0025	
Matrix:	Water	Laboratory ID:	6L04023-BLK2	File ID:	7L4030.D
Prepared:	12/04/06 09:00	Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL
Analyzed:	12/05/06 00:50	Instrument:	JVGCMS1		
Batch:	6L04023	Sequence:	BA00076	Calibration:	0612004

CAS NO.	COMPOUND	CONC. (ug/L)	Q
1634-04-4	Methyl-tert-Butyl Ether	0.20	U
71-43-2	Benzene	0.20	U
108-88-3	Toluene	0.20	U
100-41-4	Ethylbenzene	0.30	U
98-82-8	Isopropylbenzene	0.10	U
108-67-8	1,3,5-Trimethylbenzene	0.20	U
95-63-6	1,2,4-Trimethylbenzene	0.20	U
NA	Xylenes (Total)	0.30	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	50.0	48.0	96	66 - 131	
Toluene-d8	50.0	49.9	100	67 - 139	
4-Bromofluorobenzene	50.0	49.2	98	60 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene	284605	11.43	272130	11.42	
1,4-Difluorobenzene	644516	12.09	622558	12.08	
Chlorobenzene-d5	676654	15.27	680015	15.27	
1,4-Dichlorobenzene-d4	309883	17.45	316961	17.46	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8260B

MW-8

Laboratory:	ENCO Jacksonville	SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)	Project:	NAS Cecil Field CTO #0025
Matrix:	Water		
Batch:	6L04023	Laboratory ID:	6L04023-MS1
Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

Source Sample Name: MW-8

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Methyl-tert-Butyl Ether	20.0	ND	19.7	99	65 - 125
Benzene	20.0	ND	19.6	98	80 - 120
Toluene	20.0	ND	17.6	88	75 - 120
Ethylbenzene	20.0	ND	18.0	90	75 - 125
m,p-Xylenes	40.0	0.590	36.1	89	75 - 130
o-Xylene	20.0	0.220	17.6	87	80 - 120
Isopropylbenzene	20.0	ND	20.0	100	75 - 125
1,3,5-Trimethylbenzene	20.0	ND	17.8	89	75 - 130
1,2,4-Trimethylbenzene	20.0	ND	18.3	92	75 - 130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Methyl-tert-Butyl Ether	20.0	20.9	105	6	23	65 - 125
Benzene	20.0	19.0	95	3	22	80 - 120
Toluene	20.0	17.6	88	0.2	24	75 - 120
Ethylbenzene	20.0	18.0	90	0.1	25	75 - 125
m,p-Xylenes	40.0	36.8	91	2	24	75 - 130
o-Xylene	20.0	18.1	90	3	25	80 - 120
Isopropylbenzene	20.0	20.5	102	3	25	75 - 125
1,3,5-Trimethylbenzene	20.0	18.5	93	4	26	75 - 130
1,2,4-Trimethylbenzene	20.0	18.7	94	2	26	75 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)	Project:	NAS Cecil Field CTO #0025
Matrix:	Water		
Batch:	6L04023	Laboratory ID:	6L04023-BS1
Preparation:	EPA 5030B_MS	Initial/Final:	5 mL / 5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Methyl-tert-Butyl Ether	20.0	19.7	99	65 - 125
Benzene	20.0	19.3	96	80 - 120
Toluene	20.0	17.0	85	75 - 120
Ethylbenzene	20.0	16.5	82	75 - 125
m,p-Xylenes	40.0	34.8	87	75 - 130
o-Xylene	20.0	17.3	86	80 - 120
Isopropylbenzene	20.0	19.3	96	75 - 125
1,3,5-Trimethylbenzene	20.0	16.9	85	75 - 130
1,2,4-Trimethylbenzene	20.0	17.5	88	75 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)	Project:	NAS Cecil Field CTO #0025
Lab File ID:	7L4001.D	Injection Date:	12/04/06
Instrument ID:	JVGCMS1	Injection Time:	09:59
Sequence:	BA00076	Lab Sample ID:	BA00076-1UN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	22.5	PASS
75	30 - 60% of 95	46.7	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	5.84	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	56.1	PASS
175	5 - 9% of 174	7.9	PASS
176	95 - 101% of 174	95.1	PASS
177	5 - 9% of 176	6.1	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)	Project:	NAS Cecil Field CTO #0025
Lab File ID:	7L4026.D	Injection Date:	12/04/06
Instrument ID:	IVGCMS1	Injection Time:	22:47
Sequence:	BA00076	Lab Sample ID:	BA00076-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	20.8	PASS
75	30 - 60% of 95	44.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.21	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	55.1	PASS
175	5 - 9% of 174	7.74	PASS
176	95 - 101% of 174	99.5	PASS
177	5 - 9% of 176	6.55	PASS

CONTINUING CALIBRATION CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)	Project:	NAS Cecil Field CTO #0025
Instrument ID:	JVGCMS1	Calibration:	0612004
Lab File ID:	7L4002.D	Calibration Date:	11/30/06 09:00
Sequence:	BA00076	Injection Date:	12/04/06
Lab Sample ID:	BA00076-CCV1	Injection Time:	10:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methyl-tert-Butyl Ether	A	50.0	49.4	2.081972	2.05783		-1.2	
Benzene	A	50.0	48.6	1.357218	1.32044		-2.7	20
Toluene	A	50.0	46.8	0.7588912	0.709535		-6.5	20
Ethylbenzene	A	50.0	47.1	0.3859952	0.363575		-5.8	20
m,p-Xylenes	A	100	97.5	0.4757066	0.463683		-2.5	20
o-Xylene	A	50.0	50.6	0.4633409	0.469334		1.3	20
Isopropylbenzene	A	50.0	50.1	1.038279	1.04037		0.2	20
1,3,5-Trimethylbenzene	A	50.0	47.2	2.095418	1.97939		-5.5	20
1,2,4-Trimethylbenzene	A	50.0	47.4	2.174296	2.06221		-5.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)	Project:	NAS Cecil Field CTO #0025
Instrument ID:	JVGCMS1	Calibration:	0612004
Lab File ID:	7L4027.D	Calibration Date:	11/30/06 09:00
Sequence:	BA00076	Injection Date:	12/04/06
Lab Sample ID:	BA00076-CCV2	Injection Time:	23:18

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methyl-tert-Butyl Ether	A	50.0	48.5	2.081972	2.02066		-2.9	
Benzene	A	50.0	49.6	1.357218	1.34583		-0.8	20
Toluene	A	50.0	46.8	0.7588912	0.710327		-6.4	20
Ethylbenzene	A	50.0	47.5	0.3859952	0.36691		-4.9	20
m,p-Xylenes	A	100	94.3	0.4757066	0.448793		-5.7	20
o-Xylene	A	50.0	48.7	0.4633409	0.450915		-2.7	20
Isopropylbenzene	A	50.0	49.2	1.038279	1.02269		-1.5	20
1,3,5-Trimethylbenzene	A	50.0	47.4	2.095418	1.98576		-5.2	20
1,2,4-Trimethylbenzene	A	50.0	47.5	2.174296	2.06648		-5.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)	Project:	NAS Cecil Field CTO #0025
Sequence:	BA00076	Instrument:	JVGCMS1
Matrix:	Water	Calibration:	0612004

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (6L04023-BLK1)			Lab File ID: 7L4004.D		Analyzed: 12/04/06 11:31			
Dibromofluoromethane	50.0	106	66 - 131	10.87	10.89	-0.0200	+/-0.5	
Toluene-d8	50.0	100	67 - 139	13.62	13.63	-0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	98	60 - 130	16.4	16.40833	-0.0083	+/-0.5	
CEF-81-15S-02 (B610171-01)			Lab File ID: 7L4018.D		Analyzed: 12/04/06 18:42			
Dibromofluoromethane	50.0	101	66 - 131	10.87	10.89	-0.0200	+/-0.5	
Toluene-d8	50.0	100	67 - 139	13.63	13.63	0.0000	+/-0.5	
4-Bromofluorobenzene	50.0	98	60 - 130	16.4	16.40833	-0.0083	+/-0.5	
CEF-81-17S-02 (B610171-02)			Lab File ID: 7L4019.D		Analyzed: 12/04/06 19:13			
Dibromofluoromethane	50.0	97	66 - 131	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	101	67 - 139	13.62	13.63	-0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	100	60 - 130	16.4	16.40833	-0.0083	+/-0.5	
CEF-81-16S-02 (B610171-03)			Lab File ID: 7L4020.D		Analyzed: 12/04/06 19:43			
Dibromofluoromethane	50.0	99	66 - 131	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	100	67 - 139	13.62	13.63	-0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	98	60 - 130	16.4	16.40833	-0.0083	+/-0.5	
CEF-81-18I-02 (B610171-04)			Lab File ID: 7L4021.D		Analyzed: 12/04/06 20:14			
Dibromofluoromethane	50.0	101	66 - 131	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	98	67 - 139	13.62	13.63	-0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	96	60 - 130	16.4	16.40833	-0.0083	+/-0.5	
CEF-81-19I-02 (B610171-05)			Lab File ID: 7L4022.D		Analyzed: 12/04/06 20:45			
Dibromofluoromethane	50.0	100	66 - 131	10.87	10.89	-0.0200	+/-0.5	
Toluene-d8	50.0	99	67 - 139	13.61	13.63	-0.0200	+/-0.5	
4-Bromofluorobenzene	50.0	99	60 - 130	16.4	16.40833	-0.0083	+/-0.5	
CEF-81-20I-02 (B610171-06)			Lab File ID: 7L4023.D		Analyzed: 12/04/06 21:15			
Dibromofluoromethane	50.0	100	66 - 131	10.87	10.89	-0.0200	+/-0.5	
Toluene-d8	50.0	102	67 - 139	13.62	13.63	-0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	99	60 - 130	16.4	16.40833	-0.0083	+/-0.5	
CEF-81-EB01-02 (B610171-07)			Lab File ID: 7L4024.D		Analyzed: 12/04/06 21:46			
Dibromofluoromethane	50.0	101	66 - 131	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	98	67 - 139	13.62	13.63	-0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	100	60 - 130	16.4	16.40833	-0.0083	+/-0.5	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)	Project:	NAS Cecil Field CTO #0025
Sequence:	BA00076	Instrument:	JVGCMS1
Matrix:	Water	Calibration:	0612004

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (6L04023-BLK2)			Lab File ID: 7L4030.D		Analyzed: 12/05/06 00:50			
Dibromofluoromethane	50.0	96	66 - 131	10.87	10.89	-0.0200	+/-0.5	
Toluene-d8	50.0	100	67 - 139	13.62	13.63	-0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	98	60 - 130	16.4	16.40833	-0.0083	+/-0.5	
CEF-81-DUP01-02 (B610171-08)			Lab File ID: 7L4031.D		Analyzed: 12/05/06 01:21			
Dibromofluoromethane	50.0	101	66 - 131	10.88	10.89	-0.0100	+/-0.5	
Toluene-d8	50.0	99	67 - 139	13.62	13.63	-0.0100	+/-0.5	
4-Bromofluorobenzene	50.0	99	60 - 130	16.4	16.40833	-0.0083	+/-0.5	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)	Project:	NAS Cecil Field CTO #0025
Sequence:	BA00076	Instrument:	JVGCMS1
Matrix:	Water	Calibration:	0612004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (6L04023-BLK1)			Lab File ID: 7L4004.D			Analyzed: 12/04/06 11:31			
Pentafluorobenzene	256251	11.43	265238	11.42	97	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	596983	12.09	603997	12.08	99	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	623605	15.27	646439	15.26	96	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	280370	17.45	310542	17.45	90	50 - 200	0.0000	+/-0.50	
CEF-81-15S-02 (B610171-01)			Lab File ID: 7L4018.D			Analyzed: 12/04/06 18:42			
Pentafluorobenzene	273658	11.43	265238	11.42	103	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	628166	12.09	603997	12.08	104	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	649720	15.27	646439	15.26	101	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	285476	17.46	310542	17.45	92	50 - 200	0.0100	+/-0.50	
CEF-81-17S-02 (B610171-02)			Lab File ID: 7L4019.D			Analyzed: 12/04/06 19:13			
Pentafluorobenzene	275269	11.43	265238	11.42	104	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	617566	12.09	603997	12.08	102	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	651353	15.27	646439	15.26	101	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	294127	17.45	310542	17.45	95	50 - 200	0.0000	+/-0.50	
CEF-81-16S-02 (B610171-03)			Lab File ID: 7L4020.D			Analyzed: 12/04/06 19:43			
Pentafluorobenzene	272196	11.42	265238	11.42	103	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	629743	12.09	603997	12.08	104	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	660431	15.27	646439	15.26	102	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	292989	17.46	310542	17.45	94	50 - 200	0.0100	+/-0.50	
CEF-81-18I-02 (B610171-04)			Lab File ID: 7L4021.D			Analyzed: 12/04/06 20:14			
Pentafluorobenzene	264795	11.43	265238	11.42	100	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	623516	12.09	603997	12.08	103	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	660141	15.27	646439	15.26	102	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	290451	17.46	310542	17.45	94	50 - 200	0.0100	+/-0.50	
CEF-81-19I-02 (B610171-05)			Lab File ID: 7L4022.D			Analyzed: 12/04/06 20:45			
Pentafluorobenzene	272962	11.43	265238	11.42	103	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	633113	12.09	603997	12.08	105	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	662315	15.27	646439	15.26	102	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	292165	17.45	310542	17.45	94	50 - 200	0.0000	+/-0.50	
CEF-81-20I-02 (B610171-06)			Lab File ID: 7L4023.D			Analyzed: 12/04/06 21:15			
Pentafluorobenzene	278756	11.43	265238	11.42	105	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	621792	12.09	603997	12.08	103	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	668272	15.27	646439	15.26	103	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	296533	17.45	310542	17.45	95	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)	Project:	NAS Cecil Field CTO #0025
Sequence:	BA00076	Instrument:	JVGCMS1
Matrix:	Water	Calibration:	0612004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
CEF-81-EB01-02 (B610171-07)			Lab File ID: 7L4024.D			Analyzed: 12/04/06 21:46			
Pentafluorobenzene	265622	11.42	265238	11.42	100	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	635928	12.09	603997	12.08	105	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	658608	15.27	646439	15.26	102	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	297392	17.46	310542	17.45	96	50 - 200	0.0100	+/-0.50	
Blank (6L04023-BLK2)			Lab File ID: 7L4030.D			Analyzed: 12/05/06 00:50			
Pentafluorobenzene	284605	11.43	272130	11.42	105	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene	644516	12.09	622558	12.08	104	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	676654	15.27	680015	15.27	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	309883	17.45	316961	17.46	98	50 - 200	-0.0100	+/-0.50	
CEF-81-DUP01-02 (B610171-08)			Lab File ID: 7L4031.D			Analyzed: 12/05/06 01:21			
Pentafluorobenzene	273753	11.42	272130	11.42	101	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene	637772	12.08	622558	12.08	102	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	658067	15.27	680015	15.27	97	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	292855	17.46	316961	17.46	92	50 - 200	0.0000	+/-0.50	

INITIAL CALIBRATION STANDARDS

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)	Project:	NAS Cecil Field CTO #0025
Sequence:	BA00075	Instrument:	JVGCMS1
Calibration:	0612004		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
B6L0029	8260 Calibration standard #1 (0.0002mg/L)	BA00075-CAL1	7KY005.D	11/30/06 16:52
B6L0031	8260 Calibration standard #2(0.001mg/L)	BA00075-CAL2	7KY007.D	11/30/06 17:54
B6L0032	8260 Calibration standard #3(0.005mg/L)	BA00075-CAL3	7KY008.D	11/30/06 18:25
B6L0033	8260 Calibration standard #4(0.020mg/L)	BA00075-CAL4	7KY009.D	11/30/06 18:55
B6L0037	8260 Calibration standard #5(0.050mg/L)	BA00075-CAL5	7KY010.D	11/30/06 19:26
B6L0036	8260 Calibration standard #6(0.100mg/L)	BA00075-CAL6	7KY012.D	11/30/06 20:27
B6L0035	8260 Calibration standard #7(0.200mg/L)	BA00075-CAL7	7KY015.D	11/30/06 21:59

INITIAL CALIBRATION DATA
EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)	Project:	NAS Cecil Field CTO #0025
Calibration:	0612004	Instrument:	JVGCMS1
Matrix:	Water	Calibration Date:	11/30/06 09:00

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl-tert-Butyl Ether			1	2.312951	5	2.024389	20	2.114785	50	2.112303	100	1.969259
Benzene			1	1.413063	5	1.295651	20	1.375797	50	1.390209	100	1.347036
Toluene			1	0.8322361	5	0.7228087	20	0.7611497	50	0.7709031	100	0.7327633
Ethylbenzene			1	0.3562327	5	0.3629354	20	0.3919429	50	0.4225946	100	0.3873192
m,p-Xylenes			2	0.4503264	10	0.4421989	40	0.4853094	100	0.496674	200	0.4886988
o-Xylene			1	0.4346371	5	0.4441399	20	0.4604771	50	0.4919662	100	0.4714157
Isopropylbenzene			1	0.8571224	5	0.9697186	20	1.090855	50	1.144667	100	1.08869
1,3,5-Trimethylbenzene			1	2.024604	5	1.88962	20	2.136336	50	2.259376	100	2.107292
1,2,4-Trimethylbenzene			1	1.832199	5	2.076745	20	2.243341	50	2.367686	100	2.261212
Dibromofluoromethane			50	0.354325	50	0.3547079	50	0.3605933	50	0.36206	50	0.364917
Toluene-d8			50	1.307543	50	1.294722	50	1.311751	50	1.329164	50	1.333979
4-Bromofluorobenzene			50	0.5540134	50	0.5710301	50	0.559818	50	0.5710208	50	0.5968494

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

Laboratory:	ENCO Jacksonville	SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)	Project:	NAS Cecil Field CTO #0025
Calibration:	0612004	Instrument:	JVGCMS1
Matrix:	Water	Calibration Date:	11/30/06 09:00

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl-tert-Butyl Ether	200	1.958145										
Benzene	200	1.321551										
Toluene	200	0.7334865										
Ethylbenzene	200	0.3949464										
m,p-Xylenes	400	0.4910323										
o-Xylene	200	0.4774095										
Isopropylbenzene	200	1.07862										
1,3,5-Trimethylbenzene	200	2.155277										
1,2,4-Trimethylbenzene	200	2.264591										
Dibromofluoromethane	50	0.3315153										
Toluene-d8	50	1.270039										
4-Bromofluorobenzene	50	0.5417665										

INITIAL CALIBRATION DATA (Continued)

EPA 8260B

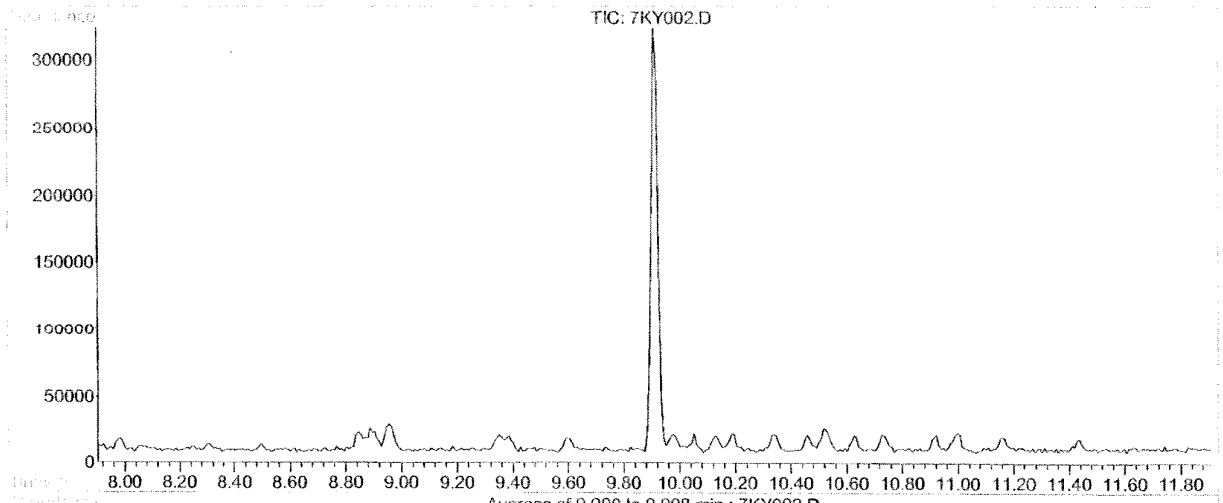
Laboratory:	ENCO Jacksonville	SDG:	BR006-002
Client:	Tetra Tech NUS (BR006)	Project:	NAS Cecil Field CTO #0025
Calibration:	0612004	Instrument:	JVGCMS1
Matrix:	Water	Calibration Date:	11/30/06 09:00

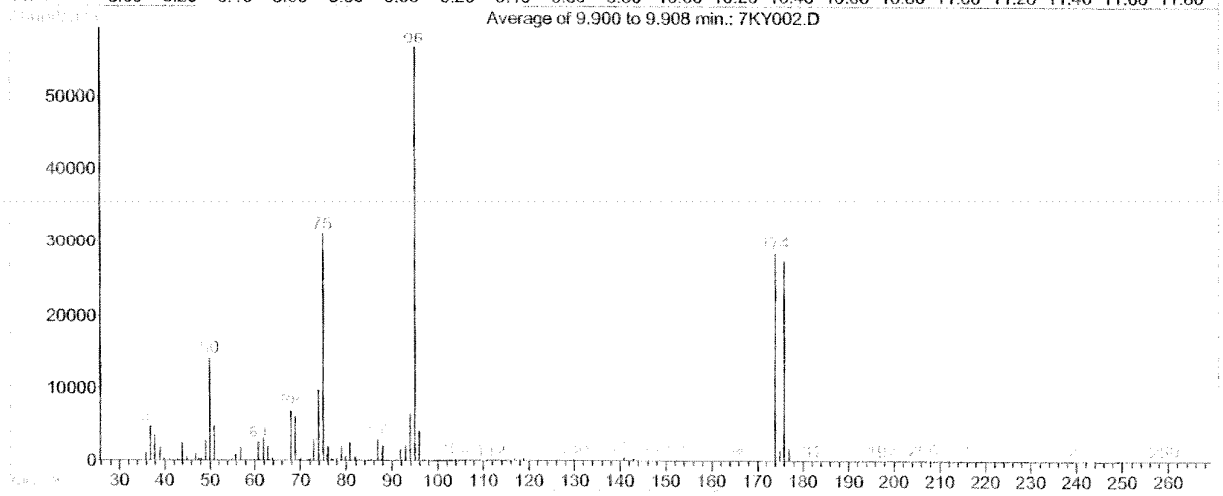
Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Methyl-tert-Butyl Ether	2.081972	6.324892	8.768334	8.624266E-02			15	
Benzene	1.357218	3.24838	11.42833	4.055526E-02			15	
Toluene	0.7588912	5.322937	13.68833	3.304316E-02			CCC (20)	
Ethylbenzene	0.3859952	6.211594	15.28	9.388808E-03			CCC (20)	
m,p-Xylenes	0.4757066	4.887123	15.415	3.330498E-02			15	
o-Xylene	0.4633409	4.612001	15.83833	2.802547E-02			15	
Isopropylbenzene	1.038279	10.17184	16.11333	2.495369E-02			15	
1,3,5-Trimethylbenzene	2.095418	6.02326	16.63667	3.700984E-02			15	
1,2,4-Trimethylbenzene	2.174296	8.832853	17.015	0.0366926			15	
Dibromofluoromethane	0.3546864	3.408894	10.89	1.492901E-02			15	
Toluene-d8	1.3112	2.192469	13.63	1.100379E-02			15	
4-Bromofluorobenzene	0.5657497	3.32656	16.40833	1.767008E-02			15	

VOLATILES CALIBRATION DATA

BFB

Data File : C:\HPCHEM\1\DATA\20067KW\7KY002.D Vial: 2
Acq On : 30 Nov 2006 15:20 Operator: ds
Sample : BA00075-TUN1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\826W6JV2.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260





Spectrum Information: Average of 9.900 to 9.908 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.9	14130	PASS
75	95	30	60	55.2	31240	PASS
95	95	100	100	100.0	56640	PASS
96	95	5	9	7.5	4265	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	50.2	28436	PASS
175	174	5	9	5.3	1493	PASS
176	174	95	101	96.4	27416	PASS
177	176	5	9	6.5	1785	PASS

7KY002.D 826W6JV2.M Sun Dec 10 13:06:42 2006

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067KW\7KY003.D Vial: 3
Acq On : 30 Nov 2006 15:51 Operator: ds
Sample : BA00075-ICB1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 11:08 2006 Quant Results File: 8260W6JV.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6JV.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Mon Oct 30 10:57:29 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6JV

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) PENTAFLUOROBENZENE (IS)	11.44	168	265624	50.00 ug/L	-0.03
38) 1,4-DIFLUOROBENZENE (IS)	12.10	114	593349	50.00 ug/L	-0.03
55) CHLOROBENZENE-d5(IS)	15.28	117	613076	50.00 ug/L	-0.02
81) 1,4-DICHLOROBENZENE-d4(IS)	17.46	152	266693	50.00 ug/L	-0.02
System Monitoring Compounds					
34) Dibromofluoromethane (surr	10.89	113	218132	66.93 ug/L	-0.03
Spiked Amount 50.000 Range 71 - 136 Recovery = 133.86%					
41) d4-1,2-Dichloroethane(surr	11.57	65	278658	54.16 µg/L	-0.03
Spiked Amount 50.000 Range 70 - 130 Recovery = 108.32%					
54) D8-Toluene (surr)	13.63	98	746593	55.07 ug/L	-0.03
Spiked Amount 50.000 Range 75 - 126 Recovery = 110.14%					
75) Bromofluorobenzene (surr)	16.41	95	334309	63.35 ug/L	-0.02
Spiked Amount 50.000 Range 76 - 120 Recovery = 126.70%#					

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.24	85	204	0.07 ug/L #	1
3) Chloromethane	4.66	50	355	0.10 ug/L #	22
4) Vinyl Chloride	4.05	62	451	0.15 ug/L	91
5) Bromomethane	5.47	94	169	-1.13 ug/L	83
6) Chloroethane	0.00	64		N.D. d	
7) Trichlorofluoromethane	6.22	101	172	0.05 ug/L #	1
8) Ethanol	7.17	45	188	-140.30 ug/L	74
9) 1,2-Dichloro-1,1,2-triflur	7.14	117		No Calib #	
10) acrolein	7.95	56	320	-28.04 ug/L	97
11) 1,1,2Trichloro-1,2,2triflu	7.42	151	108	0.06 ug/L #	1
12) 1,1-Dichloroethene	7.33	96	116	0.05 ug/L #	1
13) Acetone	8.53	43	344	-26.86 ug/L	75
14) Iodomethane	7.60	142	231	-5.14 ug/L #	1
15) Carbon disulfide	7.36	76	377	0.05 ug/L	52
16) Acetonitrile	0.00	41		N.D. d	
17) 3-chloropropene	8.19	41	454	-2.77 ug/L #	93
18) Methylene Chloride	8.33	84	2943	4.94 ug/L	89
19) Acrylonitrile	9.61	53	111	-18.85 ug/L #	1
20) Methyl tert-butyl ether	8.66	73	105	0.01 ug/L #	1
21) t-1,2-Dichloroethene	8.59	96	103	0.04 ug/L #	75
22) 1,1-Dichloroethane	9.50	63	196	0.04 ug/L #	40
23) Vinyl Acetate	9.88	43	332	0.06 ug/L #	76
24) Isopropyl ether	9.45	45	363	0.04 ug/L	100
25) Chloroprene	9.59	88	125	0.06 ug/L #	1
26) 2-Butanone	11.14	72	159	-11.56 ug/L	95
27) c-1,2-Dichloroethene	10.32	96	334	0.11 ug/L #	10
28) 2,2-Dichloropropane	10.43	77	220	-6.74 ug/L	78
29) Propionitrile	0.00	54		N.D. d	
30) Methacrylonitrile	11.40	41	249	0.12 ug/L	98
31) Bromochloromethane	10.53	128	100	0.08 ug/L #	1
32) Chloroform	10.66	83	194	0.04 ug/L #	17
33) Dibromofluoromethane	10.89	113	218132	66.93 ug/L	83
35) 1,1,1-Trichloroethane	11.15	97	159	0.04 ug/L #	1
36) 1,1-Dichloropropene	11.12	75	167	0.05 ug/L #	41
37) Isobutyl alcohol	0.00	43		N.D. d	
39) Carbon Tetrachloride	10.90	117	575	0.13 ug/L #	1
40) d4-1,2-Dichloroethane	11.57	65	278658	54.16 µg/L #	81
42) 1,2-Dichloroethane	11.77	62	291	0.05 ug/L #	83
43) Benzene	11.47	78	114	0.01 ug/L #	1
44) Trichloroethene	0.00	130		N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067KW\7KY003.D Vial: 3
Acq On : 30 Nov 2006 15:51 Operator: ds
Sample : BA00075-ICB1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 11:08 2006 Quant Results File: 8260W6JV.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6JV.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Mon Oct 30 10:57:29 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6JV

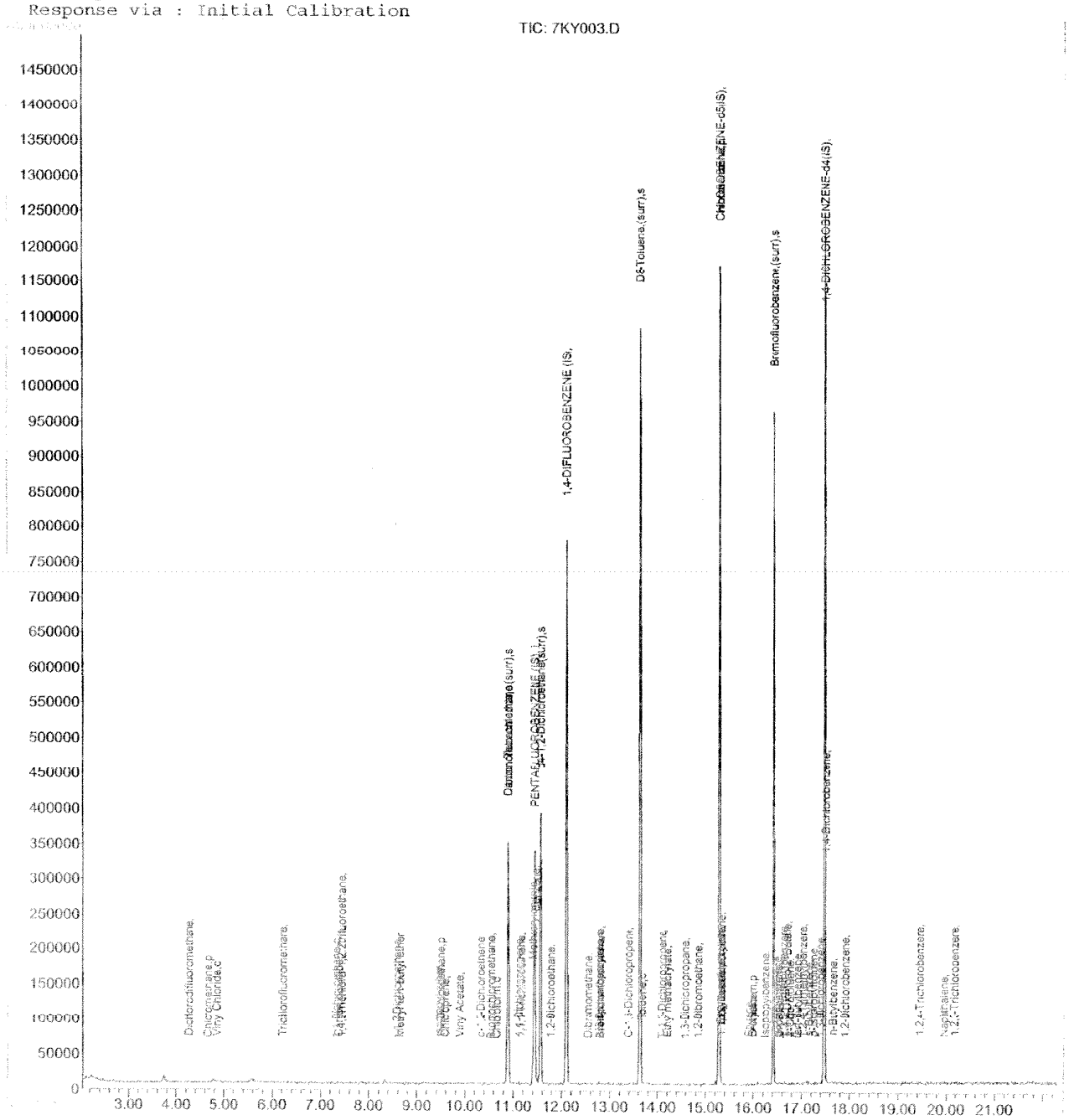
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) 1,2-Dichloropropane	12.79	63	167	0.05 ug/L #	58
46) Methyl methacrylate	12.79	69	143	0.06 ug/L #	1
47) 1,4-Dioxane	12.83	88	130	-110.19 ug/L #	61
48) Dibromomethane	12.54	93	128	0.05 ug/L #	1
49) Bromodichloromethane	12.81	83	101	0.02 ug/L #	1
50) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
51) C-1,3-Dichloropropene	13.37	75	176	0.03 ug/L #	1
52) 4-Methyl-2-pentanone	0.00	100		N.D. d	
53) D8-Toluene	13.63	98	746593	55.07 ug/L	97
56) Toluene	13.68	92	481	0.05 ug/L #	78
57) T-1,3-Dichloropropene	14.09	75	133	0.03 ug/L #	42
58) Ethyl methacrylate	14.20	69	124	0.03 ug/L #	1
59) 1,1,2-Trichloroethane	14.20	97	469	-4.11 ug/L #	42
60) 1,3-Dichloropropane	14.55	76	337	0.04 ug/L #	1
61) Tetrachloroethene	0.00	164		N.D.	
62) 2-Hexanone	0.00	43		N.D. d	
63) Dibromochloromethane	14.42	129	234	-1.62 ug/L	81
64) 1,2-Dibromoethane	14.82	107	160	0.04 ug/L	98
65) Chlorobenzene	15.28	112	106	0.01 ug/L #	1
66) 1,1,1,2-Tetrachloroethane	15.33	131	175	0.05 ug/L #	1
67) Ethylbenzene	15.32	106	149	0.03 ug/L #	49
68) m-xylene & p-xylene	15.32	106	149	0.02 ug/L	99
69) O-Xylene	15.98	106	115	0.02 ug/L	70
70) Styrene	15.89	104	266	0.03 ug/L	81
71) Bromoform	15.98	173	134	0.05 ug/L #	27
72) Isopropylbenzene	16.22	105	325	0.03 ug/L	66
73) C-1,4-Dichloro-2-butene	16.43	53	212	-4.31 ug/L #	1
74) Bromofluorobenzene	16.41	95	334309	63.35 ug/L #	83
76) 1,1,2,2-Tetrachloroethane	16.53	83	270	-2.30 ug/L #	88
77) Bromobenzene	16.51	156	167	0.04 ug/L	96
78) 1,2,3-Trichloropropane	16.65	75	514	-3.05 ug/L #	45
79) T-1,4-Dichloro-2-Butene	16.69	53	147	0.11 ug/L #	30
80) n-Propylbenzene	16.50	91	506	0.03 ug/L	100
82) 2-Chlorotoluene	16.76	91	378	0.03 ug/L	95
83) 1,3,5-Trimethylbenzene	16.63	105	289	0.03 ug/L	90
84) 4-Chlorotoluene	16.76	91	378	0.04 ug/L	90
85) tert-Butylbenzene	16.89	119	128	0.01 ug/L #	49
86) Pentachloroethane	17.09	167	163	-4.19 ug/L	73
87) 1,2,4-Trimethylbenzene	17.00	105	130	0.01 ug/L #	1
88) s-Butylbenzene	17.14	105	135	0.01 ug/L #	1
89) 1,3-Dichlorobenzene	17.38	146	157	0.02 ug/L #	75
90) p-Isopropyltoluene	17.23	119	207	0.02 ug/L #	1
91) 1,4-Dichlorobenzene	17.49	146	354	0.05 ug/L #	1
92) n-Butylbenzene	17.64	91	682	0.07 ug/L #	45
93) 1,2-Dichlorobenzene	17.89	146	283	0.04 ug/L	98
94) DBCP	0.00	157		N.D. d	
95) 1,2,4-Trichlorobenzene	19.43	180	150	0.04 ug/L #	1
96) Hexachlorobutadiene	19.45	225	130	-1.03 ug/L #	1
97) Naphthalene	19.93	128	136	0.01 ug/L #	70
98) 1,2,3-Trichlorobenzene	20.17	180	104	0.03 ug/L #	30

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\20067KW\7KY003.D Vial: 3
Acq On : 30 Nov 2006 15:51 Operator: ds
Sample : BA00075-ICB1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 11:08 2006 Quant Results File: 8260W6JV.RES

Method : C:\HPCHEM\1\METHODS\8260W6JV.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Mon Oct 30 10:57:29 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067KW\7KY005.D Vial: 5
Acq On : 30 Nov 2006 16:52 Operator: ds
Sample : BA00075-CAL1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 11:10 2006 Quant Results File: 8260W6JV.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6JV.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Mon Oct 30 10:57:29 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6JV

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) PENTAFLUOROBENZENE (IS)	11.44	168	262873	50.00 ug/L	-0.02
38) 1,4-DIFLUOROBENZENE (IS)	12.11	114	592876	50.00 ug/L	-0.02
55) CHLOROBENZENE-d5(IS)	15.28	117	605532	50.00 ug/L	-0.02
81) 1,4-DICHLOROBENZENE-d4(IS)	17.47	152	263399	50.00 ug/L	-0.02
System Monitoring Compounds					
34) Dibromofluoromethane (surr	10.89	113	224161	69.50 ug/L	-0.02
Spiked Amount 50.000	Range	71 - 136	Recovery	= 139.00%#	
41) d4-1,2-Dichloroethane(surr	11.56	65	294389	57.27 µg/L	-0.03
Spiked Amount 50.000	Range	70 - 130	Recovery	= 114.54%	
54) D8-Toluene (surr)	13.63	98	753600	55.63 ug/L	-0.03
Spiked Amount 50.000	Range	75 - 126	Recovery	= 111.26%	
75) Bromofluorobenzene (surr)	16.41	95	325670m	62.48 ug/L	-0.02
Spiked Amount 50.000	Range	76 - 120	Recovery	= 124.96%#	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D. d	
3) Chloromethane	0.00	50		N.D. d	
4) Vinyl Chloride	0.00	62		N.D. d	
5) Bromomethane	0.00	94		N.D. d	
6) Chloroethane	0.00	64		N.D. d	
7) Trichlorofluoromethane	0.00	101		N.D. d	
8) Ethanol	0.00	45		N.D. d	
9) 1,2-Dichloro-1,1,2-triflur	0.00	117		N.D. d	
10) acrolein	0.00	56		N.D. d	
11) 1,1,2Trichloro-1,2,2triflu	0.00	151		N.D. d	
12) 1,1-Dichloroethene	0.00	96		N.D. d	
13) Acetone	0.00	43		N.D. d	
14) Iodomethane	0.00	142		N.D. d	
15) Carbon disulfide	0.00	76		N.D. d	
16) Acetonitrile	0.00	41		N.D. d	
17) 3-chloropropene	0.00	41		N.D. d	
18) Methylene Chloride	0.00	84		N.D. d	
19) Acrylonitrile	9.62	53	3237	-12.54 ug/L	98
20) Methyl tert-butyl ether	0.00	73		N.D. d	
21) t-1,2-Dichloroethene	0.00	96		N.D. d	
22) 1,1-Dichloroethane	0.00	63		N.D. d	
23) Vinyl Acetate	0.00	43		N.D. d	
24) Isopropyl ether	0.00	45		N.D. d	
25) Chloroprene	0.00	88		N.D. d	
26) 2-Butanone	0.00	72		N.D. d	
27) c-1,2-Dichloroethene	0.00	96		N.D. d	
28) 2,2-Dichloropropane	0.00	77		N.D. d	
29) Propionitrile	0.00	54		N.D. d	
30) Methacrylonitrile	0.00	41		N.D. d	
31) Bromochloromethane	0.00	128		N.D. d	
32) Chloroform	0.00	83		N.D. d	
33) Dibromofluoromethane	10.89	113	224161	69.50 ug/L	80
35) 1,1,1-Trichloroethane	0.00	97		N.D. d	
36) 1,1-Dichloropropene	0.00	75		N.D. d	
37) Isobutyl alcohol	0.00	43		N.D. d	
39) Carbon Tetrachloride	0.00	117		N.D. d	
40) d4-1,2-Dichloroethane	11.56	65	294389	57.27 µg/L #	83
42) 1,2-Dichloroethane	0.00	62		N.D. d	
43) Benzene	0.00	78		N.D. d	
44) Trichloroethene	0.00	130		N.D. d	

(#) = qualifier out of range (m) = manual integration
7KY005.D 8260W6JV.M Sun Dec 10 13:09:47 2006

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067KW\7KY005.D Vial: 5
Acq On : 30 Nov 2006 16:52 Operator: ds
Sample : BA00075-CAL1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 11:10 2006 Quant Results File: 8260W6JV.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6JV.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Mon Oct 30 10:57:29 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6JV

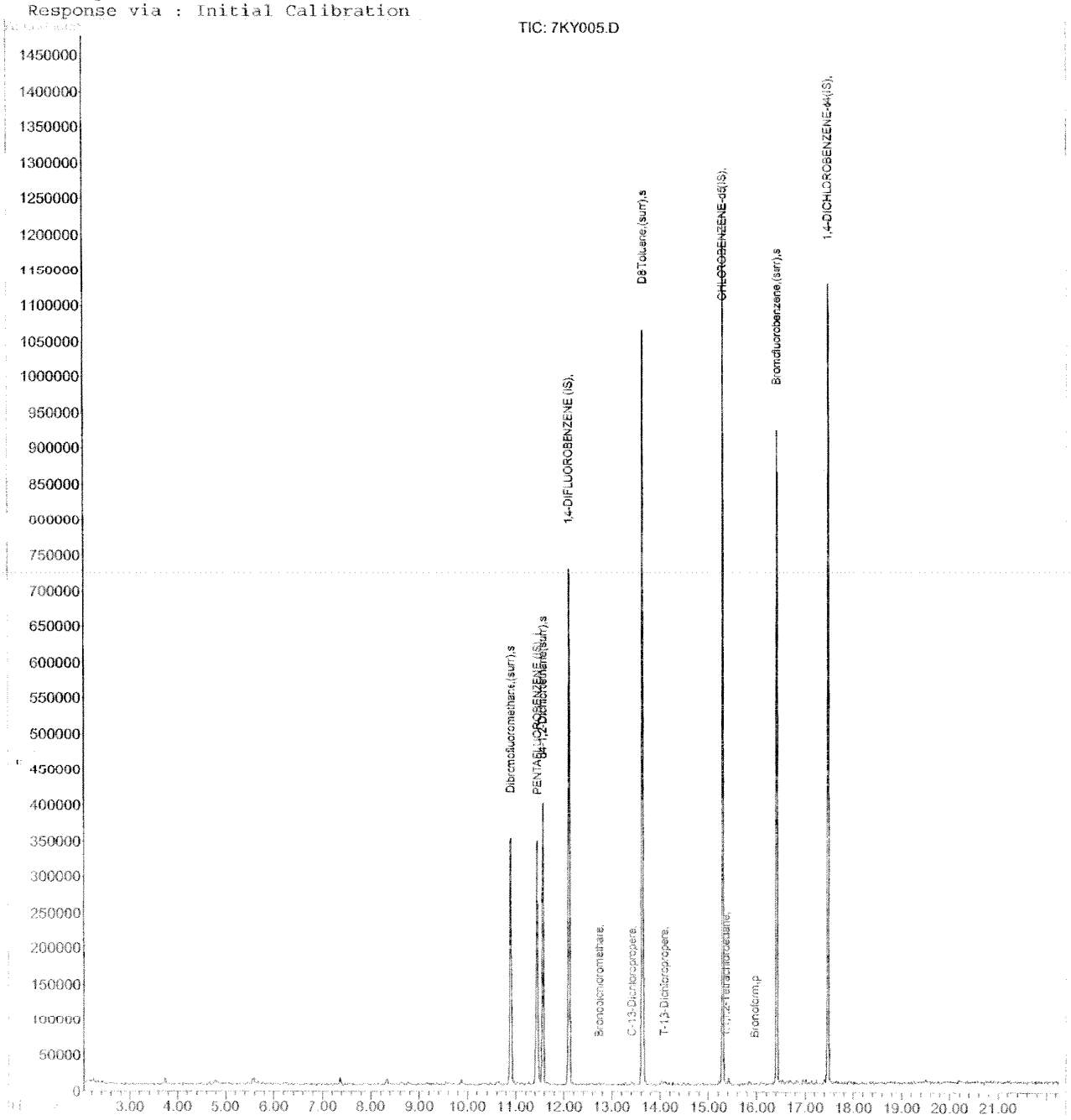
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) 1,2-Dichloropropane	0.00	63		N.D. d	
46) Methyl methacrylate	0.00	69		N.D. d	
47) 1,4-Dioxane	0.00	88		N.D. d	
48) Dibromomethane	0.00	93		N.D. d	
49) Bromodichloromethane	12.73	83	1566	0.31 ug/L #	70
50) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
51) C-1,3-Dichloropropene	13.42	75	1069	0.19 ug/L #	1
52) 4-Methyl-2-pentanone	0.00	100		N.D. d	
53) D8-Toluene	13.63	98	753600	55.63 ug/L	99
56) Toluene	0.00	92		N.D. d	
57) T-1,3-Dichloropropene	14.09	75	845	0.16 ug/L #	1
58) Ethyl methacrylate	0.00	69		N.D. d	
59) 1,1,2-Trichloroethane	0.00	97		N.D. d	
60) 1,3-Dichloropropane	0.00	76		N.D. d	
61) Tetrachloroethene	0.00	164		N.D. d	
62) 2-Hexanone	0.00	43		N.D. d	
63) Dibromochloromethane	14.48	129	704	-1.49 ug/L	93
64) 1,2-Dibromoethane	0.00	107		N.D. d	
65) Chlorobenzene	0.00	112		N.D. d	
66) 1,1,1,2-Tetrachloroethane	15.35	131	688	0.19 ug/L #	48
67) Ethylbenzene	0.00	106		N.D. d	
68) m-xylene & p-xylene	0.00	106		N.D. d	
69) O-Xylene	0.00	106		N.D. d	
70) Styrene	0.00	104		N.D. d	
71) Bromoform	15.96	173	127	0.05 ug/L #	1
72) Isopropylbenzene	0.00	105		N.D. d	
73) C-1,4-Dichloro-2-butene	0.00	53		N.D. d	
74) Bromofluorobenzene	16.41	95	325670m	62.48 ug/L	88
76) 1,1,2,2-Tetrachloroethane	16.53	83	1174m	-2.06 ug/L	96
77) Bromobenzene	0.00	156		N.D. d	
78) 1,2,3-Trichloropropane	16.71	75	1296m	-2.87 ug/L	45
79) T-1,4-Dichloro-2-Butene	0.00	53		N.D. d	
80) n-Propylbenzene	0.00	91		N.D. d	
82) 2-Chlorotoluene	0.00	91		N.D. d	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D. d	
84) 4-Chlorotoluene	0.00	91		N.D. d	
85) tert-Butylbenzene	0.00	119		N.D. d	
86) Pentachloroethane	0.00	167		N.D. d	
87) 1,2,4-Trimethylbenzene	0.00	105		N.D. d	
88) s-Butylbenzene	0.00	105		N.D. d	
89) 1,3-Dichlorobenzene	0.00	146		N.D. d	
90) p-Isopropyltoluene	0.00	119		N.D. d	
91) 1,4-Dichlorobenzene	0.00	146		N.D. d	
92) n-Butylbenzene	0.00	91		N.D. d	
93) 1,2-Dichlorobenzene	0.00	146		N.D. d	
94) DBCP	0.00	157		N.D. d	
95) 1,2,4-Trichlorobenzene	0.00	180		N.D. d	
96) Hexachlorobutadiene	0.00	225		N.D. d	
97) Naphthalene	0.00	128		N.D. d	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\20067KW\7KY005.D Vial: 5
Acq On : 30 Nov 2006 16:52 Operator: ds
Sample : BA00075-CAL1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 11:10 2006 Quant Results File: 8260W6JV.RES

Method : C:\HPCHEM\1\METHODS\8260W6JV.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Mon Oct 30 10:57:29 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067KW\7KY007.D Vial: 7
Acq On : 30 Nov 2006 17:54 Operator: ds
Sample : BA00075-CAL2 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 11:14 2006 Quant Results File: 8260W6JV.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6JV.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Mon Oct 30 10:57:29 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6JV

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) PENTAFLUOROBENZENE (IS)	11.44	168	253918	50.00	ug/L	-0.03
38) 1,4-DIFLUOROBENZENE (IS)	12.10	114	578495	50.00	ug/L	-0.02
55) CHLOROBENZENE-d5(IS)	15.29	117	600731	50.00	ug/L	-0.02
81) 1,4-DICHLOROBENZENE-d4(IS)	17.47	152	264027	50.00	ug/L	-0.02

System Monitoring Compounds

34) Dibromofluoromethane (surr	10.89	113	212854	68.32	ug/L	-0.03
Spiked Amount 50.000	Range 71 - 136		Recovery = 136.64%#			
41) d4-1,2-Dichloroethane(surr	11.56	65	286616	57.14	µg/L	-0.04
Spiked Amount 50.000	Range 70 - 130		Recovery = 114.20%			
54) D8-Toluene (surr)	13.63	98	756407	57.23	ug/L	-0.03
Spiked Amount 50.000	Range 75 - 126		Recovery = 114.46%			
75) Bromofluorobenzene (surr)	16.41	95	332813	64.36	ug/L	-0.01
Spiked Amount 50.000	Range 76 - 120		Recovery = 128.72%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.13	85	2299	0.83	ug/L	90
3) Chloromethane	4.64	50	4573	1.29	ug/L	93
4) Vinyl Chloride	4.82	62	4284	1.53	ug/L	87
5) Bromomethane	5.58	94	6725	1.44	ug/L #	49
6) Chloroethane	5.89	64	3820	2.28	ug/L	90
7) Trichlorofluoromethane	6.20	101	4092	1.21	ug/L	91
8) Ethanol	7.05	45	1619m	-70.20	ug/L	77
9) 1,2-Dichloro-1,1,2-triflur	0.00	117		N.D.	d	
10) acrolein	7.88	56	6177	7.15	ug/L	83
11) 1,1,2Trichloro-1,2,2triflu	7.36	151	4540	2.75	ug/L #	90
12) 1,1-Dichloroethene	7.29	96	3294	1.58	ug/L #	87
13) Acetone	8.40	43	8757	-15.30	ug/L	99
14) Iodomethane	7.57	142	11157	-2.21	ug/L	81
15) Carbon disulfide	7.38	76	72562	9.62	ug/L	92
16) Acetonitrile	9.15	41	8653	20.21	ug/L	82
17) 3-chloropropene	8.16	41	5382m	-1.31	ug/L	76
18) Methylene Chloride	8.34	84	7455	-3.00	ug/L #	79
19) Acrylonitrile	9.63	53	12930	7.94	ug/L	96
20) Methyl tert-butyl ether	8.78	73	11746	1.71	ug/L	85
21) t-1,2-Dichloroethene	8.63	96	4046	1.58	ug/L #	83
22) 1,1-Dichloroethane	9.58	63	9453	2.13	ug/L	89
23) Vinyl Acetate	9.87	43	56710	10.25	ug/L	94
24) Isopropyl ether	9.35	45	17045	1.78	ug/L #	84
25) Chloroprene	9.54	88	2693	1.35	ug/L	98
26) 2-Butanone	11.03	72	2568	-1.81	ug/L #	59
27) c-1,2-Dichloroethene	10.32	96	4156	1.48	ug/L #	71
28) 2,2-Dichloropropane	10.48	77	5336	-4.20	ug/L	88
29) Propionitrile	11.40	54	7320	20.95	ug/L #	1
30) Methacrylonitrile	11.44	41	35915	18.53	ug/L	82
31) Bromochloromethane	10.59	128	1704	1.35	ug/L #	48
32) Chloroform	10.65	83	8585	1.73	ug/L	96
33) Dibromofluoromethane	10.89	113	212854	68.32	ug/L	80
35) 1,1,1-Trichloroethane	10.97	97	6154	1.67	ug/L #	78
36) 1,1-Dichloropropene	11.12	75	5250	1.55	ug/L	97
37) Isobutyl alcohol	11.51	43	6525	29.24	ug/L #	65
39) Carbon Tetrachloride	10.88	117	4944	1.16	ug/L #	35
40) d4-1,2-Dichloroethane	11.56	65	286616	57.14	µg/L #	81
42) 1,2-Dichloroethane	11.64	62	7724	1.49	ug/L #	15
43) Benzene	11.43	78	16349	1.24	ug/L	94
44) Trichloroethene	12.09	130	3625	1.04	ug/L	100

(#) = qualifier out of range (m) = manual integration
7KY007.D 8260W6JV.M Sun Dec 10 13:10:30 2006

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067KW\7KY007.D Vial: 7
Acq On : 30 Nov 2006 17:54 Operator: ds
Sample : BA00075-CAL2 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 11:14 2006 Quant Results File: 8260W6JV.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6JV.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Mon Oct 30 10:57:29 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6JV

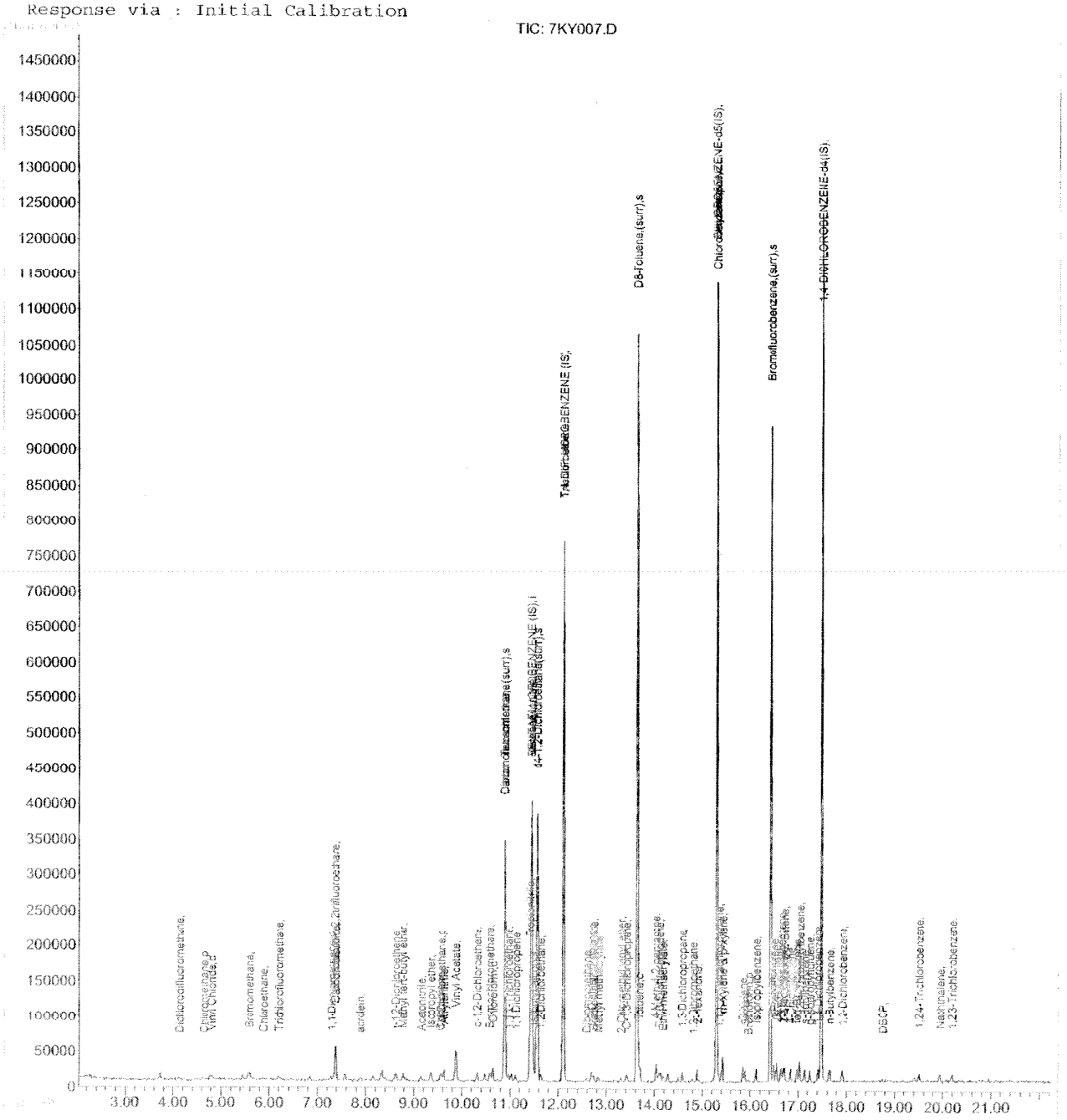
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) 1,2-Dichloropropane	12.69	63	4528	1.30 ug/L	96
46) Methyl methacrylate	12.83	69	2591m	1.16 ug/L	93
47) 1,4-Dioxane	12.94	88	1326	-70.16 ug/L	98
48) Dibromomethane	12.58	93	3242	1.29 ug/L #	61
49) Bromodichloromethane	12.73	83	5604	1.13 ug/L	99
50) 2-Chloroethyl vinyl ether	13.30	63	1225	5.75 ug/L #	66
51) C-1,3-Dichloropropene	13.41	75	6712	1.23 ug/L	92
52) 4-Methyl-2-pentanone	14.02	100	2597	5.57 ug/L #	10
53) D8-Toluene	13.63	98	756407	57.23 ug/L	97
56) Toluene	13.68	92	9999	1.12 ug/L	99
57) T-1,3-Dichloropropene	14.09	75	6710	1.30 ug/L	89
58) Ethyl methacrylate	14.18	69	5250	1.11 ug/L	91
59) 1,1,2-Trichloroethane	14.28	97	4159	-2.89 ug/L	98
60) 1,3-Dichloropropane	14.59	76	7558	1.24 ug/L	96
61) Tetrachloroethene	14.13	164	2135	-1.83 ug/L #	61
62) 2-Hexanone	14.89	43	14784	4.90 ug/L	89
63) Dibromochloromethane	14.50	129	3128	-0.85 ug/L	82
64) 1,2-Dibromoethane	14.79	107	3170m	0.87 ug/L	80
65) Chlorobenzene	15.30	112	8487	0.88 ug/L	98
66) 1,1,1,2-Tetrachloroethane	15.34	131	2926	0.83 ug/L #	78
67) Ethylbenzene	15.28	106	4280	0.91 ug/L #	52
68) m-xylene & p-xylene	15.42	106	10821	1.84 ug/L	84
69) O-Xylene	15.84	106	5222	0.96 ug/L	81
70) Styrene	15.89	104	8749	0.96 ug/L #	76
71) Bromoform	15.97	173	704	0.28 ug/L #	57
72) Isopropylbenzene	16.12	105	10298	0.84 ug/L	98
73) C-1,4-Dichloro-2-butene	16.43	53	2255	-2.66 ug/L #	1
74) Bromofluorobenzene	16.41	95	332813	64.36 ug/L #	83
76) 1,1,2,2-Tetrachloroethane	16.54	83	4419	-1.22 ug/L	90
77) Bromobenzene	16.54	156	3675	0.98 ug/L	97
78) 1,2,3-Trichloropropane	16.71	75	5464	-1.96 ug/L #	50
79) T-1,4-Dichloro-2-Butene	16.71	53	1756	1.30 ug/L #	83
80) n-Propylbenzene	16.49	91	17838	1.07 ug/L	87
82) 2-Chlorotoluene	16.68	91	11859	1.06 ug/L	93
83) 1,3,5-Trimethylbenzene	16.64	105	10691	1.04 ug/L	89
84) 4-Chlorotoluene	16.83	91	11696	1.20 ug/L	89
85) tert-Butylbenzene	16.96	119	7895	0.91 ug/L	85
86) Pentachloroethane	17.02	167	891	-2.37 ug/L #	1
87) 1,2,4-Trimethylbenzene	17.02	105	9675	0.90 ug/L	98
88) s-Butylbenzene	17.13	105	12061	0.91 ug/L	96
89) 1,3-Dichlorobenzene	17.41	146	6765	1.01 ug/L	90
90) p-Isopropyltoluene	17.23	119	9334	0.91 ug/L	89
91) 1,4-Dichlorobenzene	17.41	146	6735	0.97 ug/L	90
92) n-Butylbenzene	17.65	91	10470	1.03 ug/L	88
93) 1,2-Dichlorobenzene	17.91	146	5484	0.88 ug/L	98
94) DBCP	18.75	157	314	0.43 ug/L #	9
95) 1,2,4-Trichlorobenzene	19.51	180	2924	0.69 ug/L	88
96) Hexachlorobutadiene	19.41	225	587	-0.67 ug/L #	11
97) Naphthalene	19.93	128	9609	1.05 ug/L	95
98) 1,2,3-Trichlorobenzene	20.18	180	3097	0.78 ug/L	87

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\20067KW\7KY007.D Vial: 7
Acq On : 30 Nov 2006 17:54 Operator: ds
Sample : BA00075-CAL2 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 11:14 2006 Quant Results File: 8260W6JV.RES

Method : C:\HPCHEM\1\METHODS\8260W6JV.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Mon Oct 30 10:57:29 2006
Response via : Initial Calibration



7KY007.D 8260W6JV.M Sun Dec 10 13:10:32 2006 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067KW\7KY008.D Vial: 8
Acq On : 30 Nov 2006 18:25 Operator: ds
Sample : BA00075-CAL3 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 11:21 2006 Quant Results File: 8260W6JV.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6JV.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Mon Oct 30 10:57:29 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6JV

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) PENTAFLUOROBENZENE (IS)	11.44	168	257085	50.00 ug/L	-0.02
38) 1,4-DIFLUOROBENZENE (IS)	12.10	114	584625	50.00 ug/L	-0.02
55) CHLOROBENZENE-d5(IS)	15.28	117	597627	50.00 ug/L	-0.02
81) 1,4-DICHLOROBENZENE-d4(IS)	17.47	152	272277	50.00 ug/L	-0.02
System Monitoring Compounds					
34) Dibromofluoromethane (surr	10.89	113	211983	67.20 ug/L	-0.03
Spiked Amount 50.000 Range 71 - 136 Recovery = 134.40%					
41) d4-1,2-Dichloroethane(surr	11.56	65	273474	53.95 µg/L	-0.03
Spiked Amount 50.000 Range 70 - 130 Recovery = 107.90%					
54) D8-Toluene (surr)	13.63	98	756927	56.67 ug/L	-0.03
Spiked Amount 50.000 Range 75 - 126 Recovery = 113.34%					
75) Bromofluorobenzene (surr)	16.40	95	341263	66.34 ug/L	-0.02
Spiked Amount 50.000 Range 76 - 120 Recovery = 132.68%#					

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.12	85	11275	4.04 ug/L	83
3) Chloromethane	4.63	50	24961	6.97 ug/L	98
4) Vinyl Chloride	4.81	62	19927	7.02 ug/L	94
5) Bromomethane	5.58	94	18306	5.89 ug/L	91
6) Chloroethane	5.88	64	15328	9.04 ug/L	93
7) Trichlorofluoromethane	6.21	101	22841	6.65 ug/L	89
8) Ethanol	7.05	45	3783	32.94 ug/L	96
9) 1,2-Dichloro-1,1,2-trifluo	0.00	117		N.D. d	
10) acrolein	7.89	56	24219	113.51 ug/L	98
11) 1,1,2Trichloro-1,2,2triflu	7.35	151	19488	11.65 ug/L #	54
12) 1,1-Dichloroethene	7.28	96	19134	9.07 ug/L	99
13) Acetone	8.39	43	37664	23.70 ug/L	99
14) Iodomethane	7.58	142	79484	15.82 ug/L	85
15) Carbon disulfide	7.38	76	367964	48.18 ug/L	96
16) Acetonitrile	9.15	41	38235	88.21 ug/L	98
17) 3-chloropropene	8.16	41	27531	5.12 ug/L #	96
18) Methylene Chloride	8.34	84	25555	4.43 ug/L #	68
19) Acrylonitrile	9.62	53	62102	109.07 ug/L	93
20) Methyl tert-butyl ether	8.77	73	52044	7.49 ug/L	92
21) t-1,2-Dichloroethene	8.62	96	21296	8.22 ug/L	95
22) 1,1-Dichloroethane	9.57	63	37538	8.36 ug/L	96
23) Vinyl Acetate	9.87	43	191303	34.15 ug/L	95
24) Isopropyl ether	9.35	45	87749m	9.07 ug/L	91
25) Chloroprene	9.55	88	14280	7.04 ug/L	91
26) 2-Butanone	11.03	72	10506	29.68 ug/L #	30
27) c-1,2-Dichloroethene	10.32	96	21112	7.41 ug/L	94
28) 2,2-Dichloropropane	10.48	77	22401	4.11 ug/L	94
29) Propionitrile	11.40	54	29063	82.15 ug/L #	1
30) Methacrylonitrile	11.43	41	160054	81.58 ug/L	85
31) Bromochloromethane	10.58	128	10445	8.17 ug/L	89
32) Chloroform	10.65	83	39767	7.94 ug/L	99
33) Dibromofluoromethane	10.89	113	211983	67.20 ug/L	80
35) 1,1,1-Trichloroethane	10.96	97	27294	7.31 ug/L	89
36) 1,1-Dichloropropene	11.12	75	27208	7.94 ug/L	91
37) Isobutyl alcohol	11.50	43	37651	166.66 ug/L #	60
39) Carbon Tetrachloride	10.09	117	21920	5.11 ug/L	89
40) d4-1,2-Dichloroethane	11.56	65	273474	53.95 µg/L #	78
42) 1,2-Dichloroethane	11.64	62	29582	5.65 ug/L #	16
43) Benzene	11.42	78	75747	5.69 ug/L	99
44) Trichloroethene	12.09	130	17267	4.91 ug/L	83

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067KW\7KY008.D Vial: 8
Acq On : 30 Nov 2006 18:25 Operator: ds
Sample : BA00075-CAL3 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 11:21 2006 Quant Results File: 8260W6JV.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6JV.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Mon Oct 30 10:57:29 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6JV

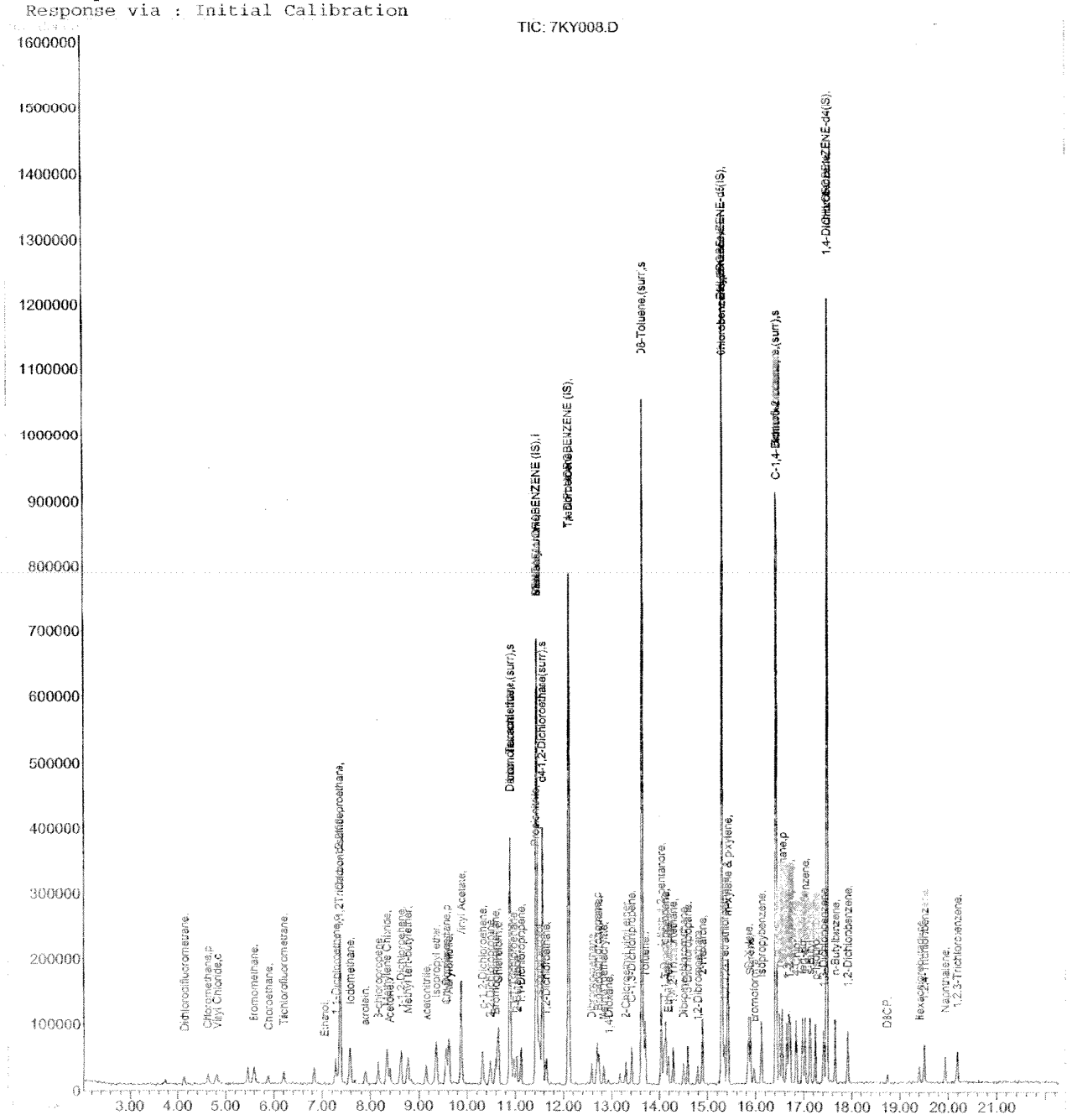
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) 1,2-Dichloropropane	12.69	63	20865	5.94 ug/L	86
46) Methyl methacrylate	12.82	69	11140	4.93 ug/L	84
47) 1,4-Dioxane	12.94	88	3959	16.35 ug/L	85
48) Dibromomethane	12.59	93	13242	5.20 ug/L #	76
49) Bromodichloromethane	12.73	83	30248	6.02 ug/L	98
50) 2-Chloroethyl vinyl ether	13.29	63	14754	30.27 ug/L	85
51) C-1,3-Dichloropropene	13.41	75	31818	5.77 ug/L	93
52) 4-Methyl-2-pentanone	14.03	100	11831	25.12 ug/L #	1
53) D8-Toluene	13.63	98	756927	56.67 ug/L	100
56) Toluene	13.69	92	43197	4.85 ug/L	92
57) T-1,3-Dichloropropene	14.09	75	26312	5.11 ug/L	96
58) Ethyl methacrylate	14.17	69	23667	5.02 ug/L	81
59) 1,1,2-Trichloroethane	14.27	97	17413	1.51 ug/L	93
60) 1,3-Dichloropropane	14.58	76	33224	5.50 ug/L	98
61) Tetrachloroethene	14.12	164	19797	2.03 ug/L	95
62) 2-Hexanone	14.88	43	75977	25.29 ug/L	92
63) Dibromochloromethane	14.50	129	16374	2.69 ug/L	98
64) 1,2-Dibromoethane	14.79	107	17828	4.89 ug/L	97
65) Chlorobenzene	15.30	112	44657	4.64 ug/L	100
66) 1,1,1,2-Tetrachloroethane	15.35	131	12746	3.65 ug/L	92
67) Ethylbenzene	15.28	106	21690	4.62 ug/L #	66
68) m-xylene & p-xylene	15.42	106	52854	9.02 ug/L	84
69) O-Xylene	15.84	106	26543	4.93 ug/L	86
70) Styrene	15.88	104	40720m	4.48 ug/L	99
71) Bromoform	15.96	173	8743	3.47 ug/L	91
72) Isopropylbenzene	16.12	105	57953	4.73 ug/L	93
73) C-1,4-Dichloro-2-butene	16.42	53	8482	2.40 ug/L #	1
74) Bromofluorobenzene	16.40	95	341263	66.34 ug/L #	83
76) 1,1,2,2-Tetrachloroethane	16.54	83	22417	3.51 ug/L	95
77) Bromobenzene	16.54	156	14764	3.96 ug/L	92
78) 1,2,3-Trichloropropane	16.70	75	29495	3.35 ug/L #	44
79) T-1,4-Dichloro-2-Butene	16.70	53	8538	6.36 ug/L #	71
80) n-Propylbenzene	16.48	91	88439	5.34 ug/L	86
82) 2-Chlorotoluene	16.68	91	63870	5.56 ug/L	90
83) 1,3,5-Trimethylbenzene	16.64	105	51450	4.85 ug/L	100
84) 4-Chlorotoluene	16.83	91	54671	5.42 ug/L	96
85) tert-Butylbenzene	16.97	119	40228	4.51 ug/L	96
86) Pentachloroethane	17.01	167	890m	-2.44 ug/L	92
87) 1,2,4-Trimethylbenzene	17.01	105	56545	5.08 ug/L	95
88) s-Butylbenzene	17.12	105	68642	5.00 ug/L	92
89) 1,3-Dichlorobenzene	17.40	146	30357	4.39 ug/L	97
90) p-Isopropyltoluene	17.23	119	45991	4.36 ug/L	93
91) 1,4-Dichlorobenzene	17.48	146	28965	4.06 ug/L	89
92) n-Butylbenzene	17.65	91	53992	5.13 ug/L	93
93) 1,2-Dichlorobenzene	17.91	146	26661	4.14 ug/L	95
94) DBCP	18.74	157	2671	3.57 ug/L #	53
95) 1,2,4-Trichlorobenzene	19.50	180	15412	3.49 ug/L	97
96) Hexachlorobutadiene	19.39	225	3921	1.86 ug/L	93
97) Naphthalene	19.93	128	36619	3.88 ug/L	99
98) 1,2,3-Trichlorobenzene	20.19	180	14706	3.58 ug/L	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\20067KW\7KY008.D Vial: 8
Acq On : 30 Nov 2006 18:25 Operator: ds
Sample : BA00075-CAL3 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 11:21 2006 Quant Results File: 8260W6JV.RES

Method : C:\HPCHEM\1\METHODS\8260W6JV.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Mon Oct 30 10:57:29 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067KW\7KY009.D Vial: 9
Acq On : 30 Nov 2006 18:55 Operator: ds
Sample : BA00075-CAL4 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 6 15:06 2006 Quant Results File: 8260W6JV.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6JV.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Mon Oct 30 10:57:29 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6JV

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) PENTAFLUOROBENZENE (IS)	11.44	168	260491	50.00 ug/L	-0.03
38) 1,4-DIFLUOROBENZENE (IS)	12.10	114	579077	50.00 ug/L	-0.02
55) CHLOROBENZENE-d5(IS)	15.28	117	598716	50.00 ug/L	-0.03
81) 1,4-DICHLOROBENZENE-d4(IS)	17.47	152	275687	50.00 ug/L	-0.02
System Monitoring Compounds					
34) Dibromofluoromethane (surr	10.89	113	215893	67.55 ug/L	-0.03
Spiked Amount 50.000 Range 71 - 136 Recovery = 135.10%					
41) d4-1,2-Dichloroethane(surr	11.56	65	287990	57.36 µg/L	-0.04
Spiked Amount 50.000 Range 70 - 130 Recovery = 114.72%					
54) D8-Toluene (surr)	13.63	98	759605	57.41 ug/L	-0.03
Spiked Amount 50.000 Range 75 - 126 Recovery = 114.82%					
75) Bromofluorobenzene (surr)	16.41	95	335172	65.04 ug/L	-0.01
Spiked Amount 50.000 Range 76 - 120 Recovery = 130.08%#					
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.12	85	53983	19.07 ug/L	98
3) Chloromethane	4.65	50	99447	27.42 ug/L	94
4) Vinyl Chloride	4.82	62	88456	30.77 ug/L	96
5) Bromomethane	5.58	94	59486	21.52 ug/L	95
6) Chloroethane	5.89	64	62861	36.57 ug/L	91
7) Trichlorofluoromethane	6.20	101	106608	30.64 ug/L	95
8) Ethanol	7.03	45	17656	689.24 ug/L	76
9) 1,2-Dichloro-1,1,2-triflur	0.00	117		N.D. d	
10) acrolein	7.89	56	112487	627.36 ug/L	99
11) 1,1,2Trichloro-1,2,2triflu	7.37	151	73634	43.44 ug/L #	43
12) 1,1-Dichloroethene	7.28	96	72625	33.98 ug/L #	83
13) Acetone	8.39	43	155162	180.10 ug/L	99
14) Iodomethane	7.58	142	437233	108.92 ug/L	85
15) Carbon disulfide	7.38	76	1578219	203.97 ug/L	96
16) Acetonitrile	9.14	41	142155	323.68 ug/L	96
17) 3-chloropropene	8.16	41	128069	33.94 ug/L #	96
18) Methylene Chloride	8.33	84	95619	32.83 ug/L #	69
19) Acrylonitrile	9.62	53	267241	525.17 ug/L	93
20) Methyl tert-butyl ether	8.77	73	220353	31.30 ug/L	87
21) t-1,2-Dichloroethene	8.62	96	80627	30.70 ug/L #	84
22) 1,1-Dichloroethane	9.58	63	165358	36.33 ug/L	95
23) Vinyl Acetate	9.87	43	968335m	170.58 ug/L	96
24) Isopropyl ether	9.35	45	354115	36.11 ug/L #	78
25) Chloroprene	9.55	88	64143	31.23 ug/L	97
26) 2-Butanone	11.02	72	50748	187.35 ug/L #	40
27) c-1,2-Dichloroethene	10.32	96	86857	30.09 ug/L	93
28) 2,2-Dichloropropane	10.47	77	95352	39.19 ug/L	93
29) Propionitrile	11.40	54	131571	367.05 ug/L	65
30) Methacrylonitrile	11.43	41	714803	359.57 ug/L	84
31) Bromochloromethane	10.59	128	35999	27.80 ug/L	95
32) Chloroform	10.65	83	148351	29.22 ug/L	98
33) Dibromofluoromethane	10.89	113	215893	67.55 ug/L	81
35) 1,1,1-Trichloroethane	10.97	97	111735	29.53 ug/L	89
36) 1,1-Dichloropropene	11.12	75	108993	31.41 ug/L	92
37) Isobutyl alcohol	11.50	43	155900m	681.05 ug/L	64
39) Carbon Tetrachloride	10.89	117	89208	20.99 ug/L	94
40) d4-1,2-Dichloroethane	11.56	65	287990	57.36 µg/L #	80
42) 1,2-Dichloroethane	11.65	62	127692	24.63 ug/L #	14
43) Benzene	11.43	78	318677	24.17 ug/L	99
44) Trichloroethene	12.09	130	69482	19.97 ug/L	87

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067KW\7KY009.D Vial: 9
Acq On : 30 Nov 2006 18:55 Operator: ds
Sample : BA00075-CAL4 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 6 15:06 2006 Quant Results File: 8260W6JV.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6JV.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Mon Oct 30 10:57:29 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6JV

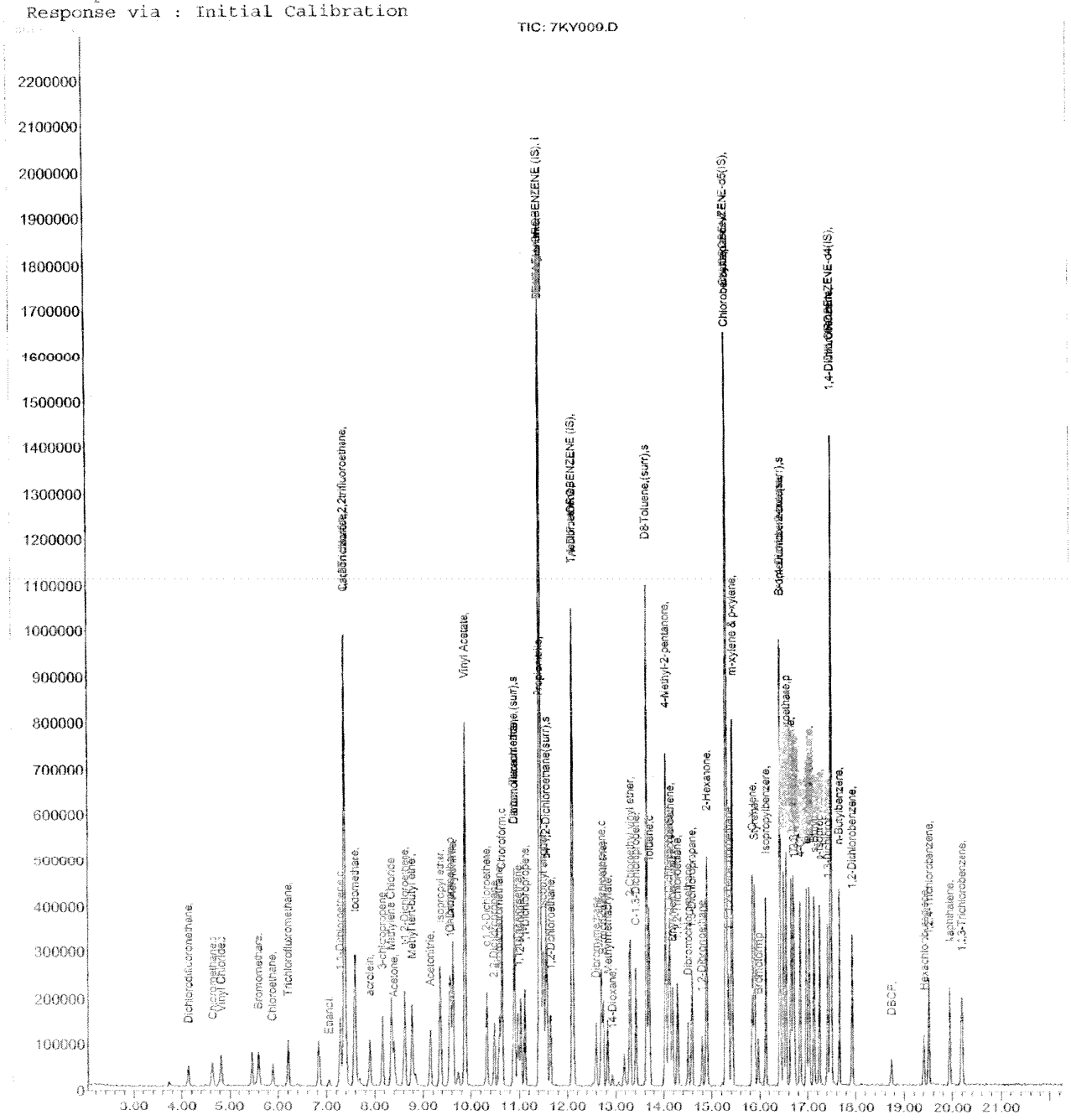
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) 1,2-Dichloropropane	12.69	63	94760	27.22 ug/L	90
46) Methyl methacrylate	12.83	69	56080	25.04 ug/L	84
47) 1,4-Dioxane	12.94	88	16008	419.40 ug/L	82
48) Dibromomethane	12.58	93	58973	23.38 ug/L #	71
49) Bromodichloromethane	12.73	83	123208	24.75 ug/L	99
50) 2-Chloroethyl vinyl ether	13.29	63	134737	250.33 ug/L	88
51) C-1,3-Dichloropropene	13.41	75	138841	25.41 ug/L	98
52) 4-Methyl-2-pentanone	14.02	100	58374	125.14 ug/L #	1
53) D8-Toluene	13.63	98	759605	57.41 ug/L	99
56) Toluene	13.69	92	182285	20.42 ug/L	93
57) T-1,3-Dichloropropene	14.08	75	119498	23.18 ug/L	99
58) Ethyl methacrylate	14.17	69	114588	24.26 ug/L	86
59) 1,1,2-Trichloroethane	14.28	97	71963	19.54 ug/L	91
60) 1,3-Dichloropropane	14.58	76	140708	23.24 ug/L	100
61) Tetrachloroethene	14.12	164	76462	14.39 ug/L	86
62) 2-Hexanone	14.88	43	391843	130.21 ug/L	87
63) Dibromochloromethane	14.49	129	74653	18.22 ug/L	100
64) 1,2-Dibromoethane	14.78	107	71579	19.62 ug/L	97
65) Chlorobenzene	15.30	112	182189	18.91 ug/L	98
66) 1,1,1,2-Tetrachloroethane	15.34	131	62617	17.90 ug/L	98
67) Ethylbenzene	15.28	106	93865	19.96 ug/L #	74
68) m-xylene & p-xylene	15.42	106	232450	39.62 ug/L	92
69) O-Xylene	15.84	106	110278	20.44 ug/L	88
70) Styrene	15.88	104	187615m	20.62 ug/L	98
71) Bromoform	15.96	173	38738	15.32 ug/L	97
72) Isopropylbenzene	16.11	105	261245	21.29 ug/L	95
73) C-1,4-Dichloro-2-butene	16.42	53	37239	25.65 ug/L #	1
74) Bromofluorobenzene	16.41	95	335172	65.04 ug/L #	83
76) 1,1,2,2-Tetrachloroethane	16.54	83	99363	23.66 ug/L	96
77) Bromobenzene	16.54	156	64811	17.34 ug/L	100
78) 1,2,3-Trichloropropane	16.71	75	137551	27.12 ug/L #	42
79) T-1,4-Dichloro-2-Butene	16.70	53	36340	27.02 ug/L #	78
80) n-Propylbenzene	16.49	91	387409	23.36 ug/L	86
82) 2-Chlorotoluene	16.68	91	251396m	21.60 ug/L	89
83) 1,3,5-Trimethylbenzene	16.64	105	235584	21.93 ug/L	97
84) 4-Chlorotoluene	16.83	91	244278	23.92 ug/L	90
85) tert-Butylbenzene	16.96	119	180611	20.01 ug/L	93
86) Pentachloroethane	17.02	167	3839	4.60 ug/L #	66
87) 1,2,4-Trimethylbenzene	17.01	105	247384	21.96 ug/L	96
88) s-Butylbenzene	17.13	105	305313	21.99 ug/L	88
89) 1,3-Dichlorobenzene	17.40	146	123910	17.70 ug/L	96
90) p-Isopropyltoluene	17.23	119	218879	20.49 ug/L	95
91) 1,4-Dichlorobenzene	17.48	146	125960	17.46 ug/L	93
92) n-Butylbenzene	17.64	91	248540	23.31 ug/L	91
93) 1,2-Dichlorobenzene	17.91	146	119520	18.33 ug/L	95
94) DBCP	18.74	157	11703	15.44 ug/L	87
95) 1,2,4-Trichlorobenzene	19.80	180	64388	14.38 ug/L	99
96) Hexachlorobutadiene	19.40	225	18760	13.00 ug/L	93
97) Naphthalene	19.93	128	177477	18.56 ug/L	100
98) 1,2,3-Trichlorobenzene	20.19	180	62610	15.05 ug/L	97

(#) = qualifier out of range (m) = manual integration
7KY009.D 8260W6JV.M Sun Dec 10 13:11:39 2006

Quantitation Report

Data File : C:\HPCHEM\1\DATA\20067KW\7KY009.D Vial: 9
Acq On : 30 Nov 2006 18:55 Operator: ds
Sample : BA00075-CAL4 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 6 15:06 2006 Quant Results File: 8260W6JV.RES

Method : C:\HPCHEM\1\METHODS\8260W6JV.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Mon Oct 30 10:57:29 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067KW\7KY010.D Vial: 10
Acq On : 30 Nov 2006 19:26 Operator: ds
Sample : BA00075-CAL5 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 11:31 2006 Quant Results File: 8260W6JV.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6JV.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Mon Oct 30 10:57:29 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6JV

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) PENTAFLUOROBENZENE (IS)	11.44	168	273536	50.00	ug/L	-0.03
38) 1,4-DIFLUOROBENZENE (IS)	12.10	114	599492	50.00	ug/L	-0.03
55) CHLOROBENZENE-d5(IS)	15.29	117	616953	50.00	ug/L	-0.02
81) 1,4-DICHLOROBENZENE-d4(IS)	17.47	152	289152	50.00	ug/L	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane (surr	10.89	113	223374	66.56	ug/L	-0.03
Spiked Amount 50.000 Range 71 - 136 Recovery = 133.12%						
41) d4-1,2-Dichloroethane(surr	11.57	65	287417	55.29	µg/L	-0.03
Spiked Amount 50.000 Range 70 - 130 Recovery = 110.58%						
54) D8-Toluene (surr)	13.63	98	796823	58.18	ug/L	-0.03
Spiked Amount 50.000 Range 75 - 126 Recovery = 116.36%						
75) Bromofluorobenzene (surr)	16.41	95	352293	66.34	ug/L	-0.01
Spiked Amount 50.000 Range 76 - 120 Recovery = 132.68%#						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.13	85	148047	49.80	ug/L	99
3) Chloromethane	4.63	50	274685	72.11	ug/L	98
4) Vinyl Chloride	4.82	62	239614	79.38	ug/L	96
5) Bromomethane	5.59	94	145767	51.80	ug/L	97
6) Chloroethane	5.88	64	157196	87.09	ug/L	99
7) Trichlorofluoromethane	6.20	101	273963	75.00	ug/L	98
8) Ethanol	7.04	45	48537	2045.54	ug/L	99
9) 1,2-Dichloro-1,1,2-triflur	0.00	117		N.D.	d	
10) acrolein	7.89	56	269405	1469.12	ug/L	97
11) 1,1,2Trichloro-1,2,2triflu	7.36	151	211356	118.74	ug/L #	55
12) 1,1-Dichloroethene	7.28	96	190811	85.02	ug/L	88
13) Acetone	8.38	43	354471	423.92	ug/L	99
14) Iodomethane	7.58	142	1259658	307.90	ug/L	86
15) Carbon disulfide	7.38	76	3969522	488.55	ug/L	97
16) Acetonitrile	9.14	41	353654	766.85	ug/L	97
17) 3-chloropropene	8.16	41	357792	95.12	ug/L #	97
18) Methylene Chloride	8.33	84	250373	91.00	ug/L #	70
19) Acrylonitrile	9.62	53	624360	1191.80	ug/L	97
20) Methyl tert-butyl ether	8.77	73	577791	78.15	ug/L	91
21) t-1,2-Dichloroethene	8.62	96	214408	77.75	ug/L #	87
22) 1,1-Dichloroethane	9.58	63	420519	87.99	ug/L	94
23) Vinyl Acetate	9.87	43	1992747	334.29	ug/L	95
24) Isopropyl ether	9.35	45	900581	87.45	ug/L #	78
25) Chloroprene	9.55	88	171945	79.72	ug/L	92
26) 2-Butanone	11.02	72	119999	437.12	ug/L #	51
27) c-1,2-Dichloroethene	10.32	96	230144	75.92	ug/L	94
28) 2,2-Dichloropropane	10.48	77	240355	103.67	ug/L	99
29) Propionitrile	11.40	54	322162	855.89	ug/L	79
30) Methacrylonitrile	11.43	41	1746348	836.58	ug/L	85
31) Bromochloromethane	10.58	128	94737	69.66	ug/L	100
32) Chloroform	10.65	83	402311	75.46	ug/L	99
33) Dibromofluoromethane	10.89	113	223374	66.56	ug/L	80
35) 1,1,1-Trichloroethane	10.97	97	302104	76.03	ug/L	88
36) 1,1-Dichloropropene	11.11	75	299873	82.29	ug/L	93
37) Isobutyl alcohol	11.50	43	397174m	1652.32	ug/L	65
39) Carbon Tetrachloride	10.89	117	250372	56.91	ug/L	98
40) d4-1,2-Dichloroethane	11.57	65	287417	55.29	µg/L #	82
42) 1,2-Dichloroethane	11.65	62	318067	59.27	ug/L #	14
43) Benzene	11.43	78	833419	61.05	ug/L	97
44) Trichloroethene	12.09	130	196185	54.46	ug/L	94

(#) = qualifier out of range (m) = manual integration
7KY010.D 8260W6JV.M Sun Dec 10 13:12:17 2006

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067KW\7KY010.D Vial: 10
Acq On : 30 Nov 2006 19:26 Operator: ds
Sample : BA00075-CAL5 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 11:31 2006 Quant Results File: 8260W6JV.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6JV.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Mon Oct 30 10:57:29 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6JV

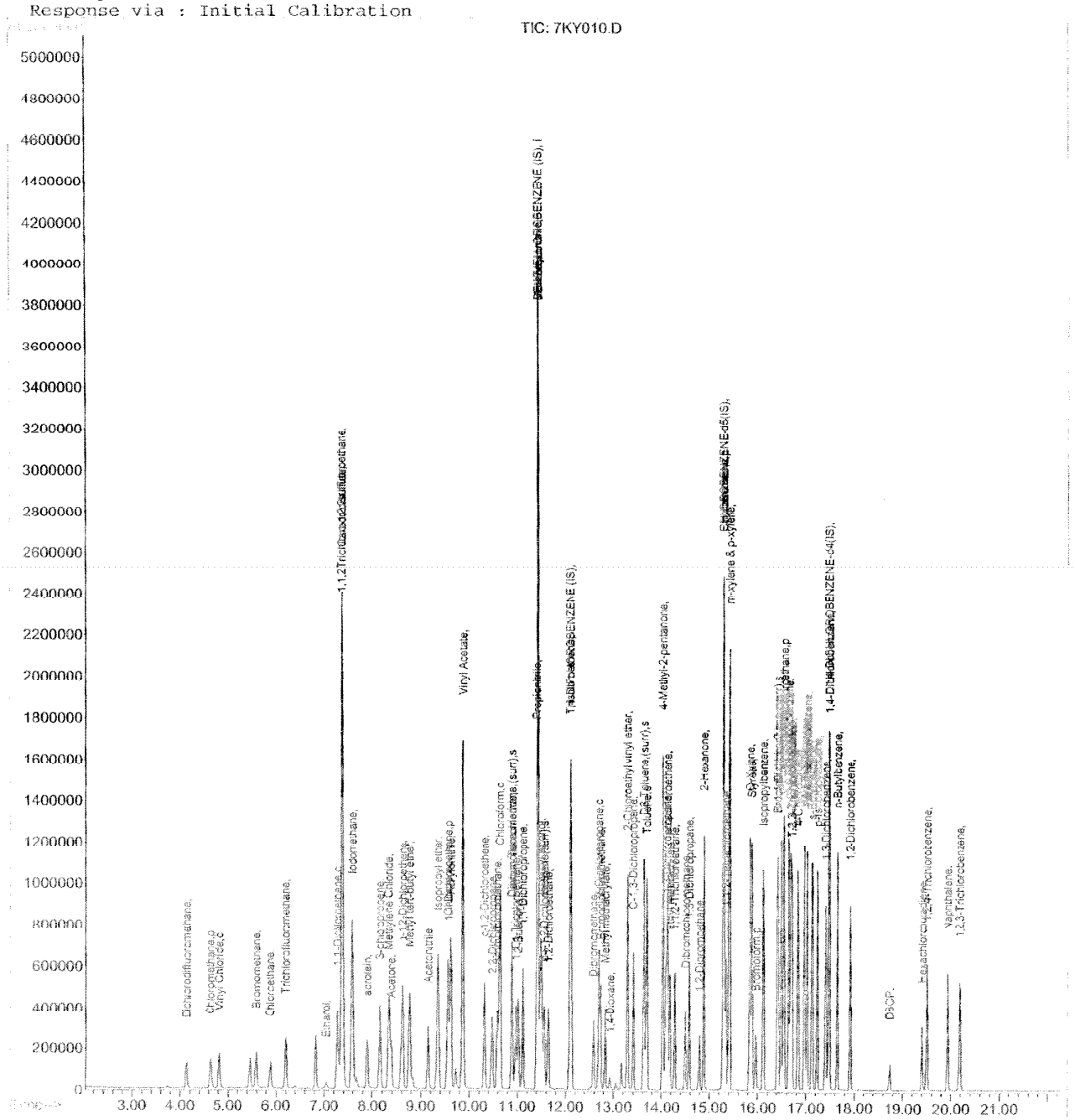
Compound	R.T.	QIon	Response	Conc Unit		Qvalue
45) 1,2-Dichloropropane	12.69	63	251601	69.82 ug/L		89
46) Methyl methacrylate	12.83	69	151416	65.32 ug/L		79
47) 1,4-Dioxane	12.93	88	40904	1203.15 ug/L		91
48) Dibromomethane	12.58	93	145831	55.84 ug/L	#	75
49) Bromodichloromethane	12.73	83	320453	62.10 ug/L		97
50) 2-Chloroethyl vinyl ether	13.29	63	448200	796.60 ug/L		88
51) C-1,3-Dichloropropene	13.41	75	372557	65.87 ug/L		96
52) 4-Methyl-2-pentanone	14.02	100	137807	285.37 ug/L	#	1
53) D8-Toluene	13.63	98	796823	58.18 ug/L		99
56) Toluene	13.69	92	475611	51.70 ug/L		97
57) T-1,3-Dichloropropene	14.09	75	311969	58.73 ug/L		96
58) Ethyl methacrylate	14.17	69	291973	59.99 ug/L		85
59) 1,1,2-Trichloroethane	14.28	97	186027	55.44 ug/L		89
60) 1,3-Dichloropropane	14.58	76	360138	57.73 ug/L		97
61) Tetrachloroethene	14.12	164	213996	43.02 ug/L		89
62) 2-Hexanone	14.88	43	916283	295.48 ug/L		89
63) Dibromochloromethane	14.50	129	197627	49.44 ug/L		98
64) 1,2-Dibromoethane	14.79	107	198823	52.88 ug/L		98
65) Chlorobenzene	15.30	112	495807	49.95 ug/L		94
66) 1,1,1,2-Tetrachloroethane	15.35	131	170383	47.26 ug/L		95
67) Ethylbenzene	15.28	106	260721	53.80 ug/L		80
68) m-xylene & p-xylene	15.41	106	612849	101.36 ug/L		88
69) O-Xylene	15.84	106	303520	54.59 ug/L		89
70) Styrene	15.88	104	537206m	57.30 ug/L		96
71) Bromoform	15.96	173	104009	39.93 ug/L		98
72) Isopropylbenzene	16.11	105	706206	55.84 ug/L		94
73) C-1,4-Dichloro-2-butene	16.42	53	92523	68.16 ug/L	#	1
74) Bromofluorobenzene	16.41	95	352293	66.34 ug/L	#	83
76) 1,1,2,2-Tetrachloroethane	16.54	83	247921	60.66 ug/L		98
77) Bromobenzene	16.54	156	176162	45.73 ug/L		98
78) 1,2,3-Trichloropropane	16.71	75	332528	67.87 ug/L	#	43
79) T-1,4-Dichloro-2-Butene	16.71	53	84128	60.71 ug/L	#	83
80) n-Propylbenzene	16.49	91	1059722	62.01 ug/L		87
82) 2-Chlorotoluene	16.68	91	656585m	53.78 ug/L		95
83) 1,3,5-Trimethylbenzene	16.64	105	653303	57.99 ug/L		98
84) 4-Chlorotoluene	16.82	91	646144	60.33 ug/L		92
85) tert-Butylbenzene	16.96	119	495015	52.30 ug/L		95
86) Pentachloroethane	17.03	167	5990	9.09 ug/L		88
87) 1,2,4-Trimethylbenzene	17.01	105	684621	57.95 ug/L		99
88) s-Butylbenzene	17.13	105	825315	56.66 ug/L		89
89) 1,3-Dichlorobenzene	17.41	146	336083	45.78 ug/L		96
90) p-Isopropyltoluene	17.23	119	617621	55.13 ug/L		94
91) 1,4-Dichlorobenzene	17.49	146	338927	44.79 ug/L		95
92) n-Butylbenzene	17.64	91	680144	60.82 ug/L		93
93) 1,2-Dichlorobenzene	17.91	146	326519	47.75 ug/L		96
94) DBCP	18.74	157	31534	39.66 ug/L	#	72
95) 1,2,4-Trichlorobenzene	19.51	180	184601	39.32 ug/L		98
96) Hexachlorobutadiene	19.41	225	51036	35.51 ug/L		99
97) Naphthalene	19.93	128	486563	48.52 ug/L		98
98) 1,2,3-Trichlorobenzene	20.19	180	174948	40.10 ug/L		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\20067KW\7KY010.D Vial: 10
Acq On : 30 Nov 2006 19:26 Operator: ds
Sample : BA00075-CAL5 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 11:31 2006 Quant Results File: 8260W6JV.RES

Method : C:\HPCHEM\1\METHODS\8260W6JV.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Mon Oct 30 10:57:29 2006
Response via : Initial Calibration



7KY010.D 8260W6JV.M Sun Dec 10 13:12:19 2006 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067KW\7KY012.D Vial: 12
Acq On : 30 Nov 2006 20:27 Operator: ds
Sample : BA00075-CAL6 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 11:33 2006 Quant Results File: 8260W6JV.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6JV.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Mon Oct 30 10:57:29 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6JV

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) PENTAFLUOROBENZENE (IS)	11.44	168	286569	50.00	ug/L	-0.03
38) 1,4-DIFLUOROBENZENE (IS)	12.10	114	636736	50.00	ug/L	-0.03
55) CHLOROBENZENE-d5(IS)	15.28	117	674041	50.00	ug/L	-0.02
81) 1,4-DICHLOROBENZENE-d4(IS)	17.46	152	312979	50.00	ug/L	-0.02

System Monitoring Compounds

34) Dibromofluoromethane (surr	10.89	113	245969	69.96	ug/L	-0.02
Spiked Amount 50.000 Range 71 - 136 Recovery = 139.92%#						
41) d4-1,2-Dichloroethane(surr	11.56	65	300797	54.48	µg/L	-0.03
Spiked Amount 50.000 Range 70 - 130 Recovery = 108.96%						
54) D8-Toluene (surr)	13.63	98	862127	59.26	ug/L	-0.03
Spiked Amount 50.000 Range 75 - 126 Recovery = 118.52%						
75) Bromofluorobenzene (surr)	16.41	95	402301	69.34	ug/L	-0.02
Spiked Amount 50.000 Range 76 - 120 Recovery = 138.68%#						

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.13	85	271164	87.07	ug/L	99
3) Chloromethane	4.64	50	566377	141.93	ug/L	95
4) Vinyl Chloride	4.82	62	480264	151.87	ug/L	93
5) Bromomethane	5.59	94	259656	88.91	ug/L	99
6) Chloroethane	5.88	64	323006	170.82	ug/L	96
7) Trichlorofluoromethane	6.20	101	521826	136.35	ug/L	99
8) Ethanol	7.04	45	89920	3731.76	ug/L	96
9) 1,2-Dichloro-1,1,2-triflur	0.00	117		N.D.	d	
10) acrolein	7.89	56	532636	2798.98	ug/L	98
11) 1,1,2Trichloro-1,2,2triflu	7.36	151	402082	215.61	ug/L #	52
12) 1,1-Dichloroethene	7.28	96	381407	162.21	ug/L	90
13) Acetone	8.39	43	689989	811.07	ug/L	100
14) Iodomethane	7.58	142	2709769	637.70	ug/L	87
15) Carbon disulfide	7.37	76	7880122	925.73	ug/L	97
16) Acetonitrile	9.14	41	695043	1438.57	ug/L	93
17) 3-chloropropene	8.16	41	754782	194.47	ug/L #	94
18) Methylene Chloride	8.34	84	509183	182.40	ug/L #	74
19) Acrylonitrile	9.62	53	1300264	2387.96	ug/L	94
20) Methyl tert-butyl ether	8.76	73	1128657	145.72	ug/L	90
21) t-1,2-Dichloroethene	8.63	96	435638	150.80	ug/L	90
22) 1,1-Dichloroethane	9.57	63	856853	171.13	ug/L	95
23) Vinyl Acetate	9.87	43	3640175	582.88	ug/L	96
24) Isopropyl ether	9.35	45	1844081m	170.93	ug/L	96
25) Chloroprene	9.55	88	360166	159.39	ug/L	99
26) 2-Butanone	11.02	72	225966	795.40	ug/L #	40
27) c-1,2-Dichloroethene	10.32	96	496682	156.40	ug/L	97
28) 2,2-Dichloropropane	10.48	77	479330	203.53	ug/L	99
29) Propionitrile	11.40	54	635667	1611.98	ug/L	82
30) Methacrylonitrile	11.44	41	3320860	1518.50	ug/L	88
31) Bromochloromethane	10.59	128	186729	131.06	ug/L	98
32) Chloroform	10.65	83	814210	145.76	ug/L	98
33) Dibromofluoromethane	10.89	113	245969	69.96	ug/L	80
35) 1,1,1-Trichloroethane	10.96	97	601017	144.38	ug/L	89
36) 1,1-Dichloropropene	11.11	75	604089	158.24	ug/L	93
37) Isobutyl alcohol	11.50	43	773617m	3072.03	ug/L	65
39) Carbon Tetrachloride	10.88	117	503036	107.66	ug/L	96
40) d4-1,2-Dichloroethane	11.56	65	300797	54.48	µg/L #	80
42) 1,2-Dichloroethane	11.64	62	636465	111.66	ug/L #	15
43) Benzene	11.43	78	1715412	118.30	ug/L	97
44) Trichloroethene	12.10	130	399530	104.41	ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067KW\7KY012.D Vial: 12
Acq On : 30 Nov 2006 20:27 Operator: ds
Sample : BA00075-CAL6 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 11:33 2006 Quant Results File: 8260W6JV.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6JV.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Mon Oct 30 10:57:29 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6JV

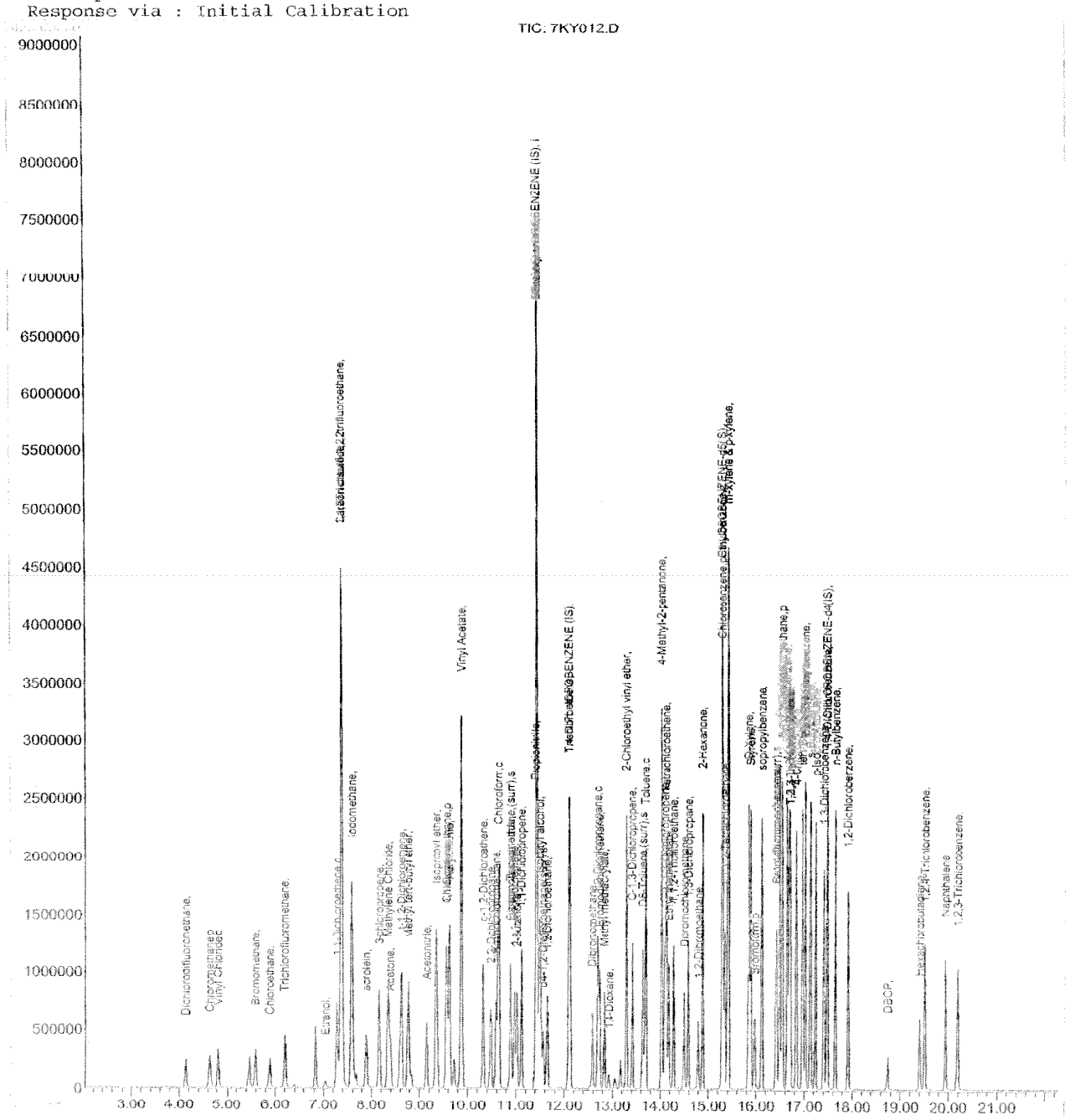
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) 1,2-Dichloropropane	12.69	63	497328	129.94 ug/L	88
46) Methyl methacrylate	12.83	69	304065	123.49 ug/L	82
47) 1,4-Dioxane	12.93	88	80248	2319.28 ug/L	86
48) Dibromomethane	12.58	93	295592	106.56 ug/L #	76
49) Bromodichloromethane	12.73	83	650326	118.80 ug/L	96
50) 2-Chloroethyl vinyl ether	13.29	63	973198	1624.86 ug/L	89
51) C-1,3-Dichloropropene	13.42	75	742199	123.54 ug/L	97
52) 4-Methyl-2-pentanone	14.02	100	275075	536.31 ug/L #	1
53) D8-Toluene	13.63	98	862127	59.26 ug/L	98
56) Toluene	13.69	92	987825	98.28 ug/L	97
57) T-1,3-Dichloropropene	14.09	75	622894	107.33 ug/L	99
58) Ethyl methacrylate	14.18	69	598634	112.59 ug/L	86
59) 1,1,2-Trichloroethane	14.28	97	382874	108.20 ug/L	90
60) 1,3-Dichloropropane	14.58	76	743423	109.07 ug/L	97
61) Tetrachloroethene	14.12	164	466229	88.07 ug/L	94
62) 2-Hexanone	14.88	43	1796630	530.30 ug/L	90
63) Dibromochloromethane	14.49	129	411383	95.71 ug/L	100
64) 1,2-Dibromoethane	14.79	107	397458	96.75 ug/L	100
65) Chlorobenzene	15.30	112	1044340	96.30 ug/L	96
66) 1,1,1,2-Tetrachloroethane	15.34	131	353563	89.76 ug/L	97
67) Ethylbenzene	15.28	106	522138	98.62 ug/L #	71
68) m-xylene & p-xylene	15.41	106	1317612	199.47 ug/L	93
69) O-Xylene	15.83	106	635507	104.61 ug/L	89
70) Styrene	15.80	104	1143710m	111.66 ug/L	95
71) Bromoform	15.96	173	224871	79.02 ug/L	98
72) Isopropylbenzene	16.11	105	1467644	106.22 ug/L	96
73) C-1,4-Dichloro-2-butene	16.43	53	179091	124.21 ug/L #	1
74) Bromofluorobenzene	16.41	95	402301	69.34 ug/L #	83
76) 1,1,2,2-Tetrachloroethane	16.54	83	486657	110.87 ug/L	96
77) Bromobenzene	16.54	156	370887	88.13 ug/L	98
78) 1,2,3-Trichloropropane	16.70	75	655318	124.97 ug/L #	44
79) T-1,4-Dichloro-2-Butene	16.70	53	171626	113.36 ug/L #	87
80) n-Propylbenzene	16.49	91	2189020	117.25 ug/L	88
82) 2-Chlorotoluene	16.68	91	1378612m	104.32 ug/L	95
83) 1,3,5-Trimethylbenzene	16.63	105	1319076	108.17 ug/L	99
84) 4-Chlorotoluene	16.83	91	1361413	117.43 ug/L	92
85) tert-Butylbenzene	16.96	119	1049709	102.46 ug/L	96
86) Pentachloroethane	17.03	167	7832	11.94 ug/L	88
87) 1,2,4-Trimethylbenzene	17.02	105	1415424	110.69 ug/L	99
88) s-Butylbenzene	17.13	105	1696437	107.61 ug/L	90
89) 1,3-Dichlorobenzene	17.40	146	703586	88.54 ug/L	97
90) p-Isopropyltoluene	17.24	119	1303051	107.45 ug/L	95
91) 1,4-Dichlorobenzene	17.48	146	733870	89.60 ug/L	97
92) n-Butylbenzene	17.65	91	1428942	118.06 ug/L	93
93) 1,2-Dichlorobenzene	17.92	146	672618	90.87 ug/L	98
94) DBCP	18.73	157	69918m	81.24 ug/L	93
95) 1,2,4-Trichlorobenzene	19.50	180	405284	79.75 ug/L	100
96) Hexachlorobutadiene	19.41	225	111073	72.53 ug/L	98
97) Naphthalene	19.93	128	1023595	94.30 ug/L	97
98) 1,2,3-Trichlorobenzene	20.18	180	359820	76.19 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\20067KW\7KY012.D Vial: 12
Acq On : 30 Nov 2006 20:27 Operator: ds
Sample : BA00075-CAL6 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 11:33 2006 Quant Results File: 8260W6JV.RES

Method : C:\HPCHEM\1\METHODS\8260W6JV.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Mon Oct 30 10:57:29 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067KW\7KY015.D Vial: 15
Acq On : 30 Nov 2006 21:59 Operator: ds
Sample : BA00075-CAL7 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 11:35 2006 Quant Results File: 8260W6JV.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6JV.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Mon Oct 30 10:57:29 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6JV

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) PENTAFLUOROBENZENE (IS)	11.44	168	300637	50.00	ug/L	-0.03
38) 1,4-DIFLUOROBENZENE (IS)	12.10	114	650348	50.00	ug/L	-0.03
55) CHLOROBENZENE-d5(IS)	15.28	117	704224	50.00	ug/L	-0.02
81) 1,4-DICHLOROBENZENE-d4(IS)	17.46	152	324523	50.00	ug/L	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane (surr	10.89	113	233461	63.29	ug/L	-0.02
Spiked Amount 50.000 Range 71 - 136 Recovery = 126.58%						
41) d4-1,2-Dichloroethane(surr	11.57	65	280561	49.76	µg/L	-0.03
Spiked Amount 50.000 Range 70 - 130 Recovery = 99.52%						
54) D8-Toluene (surr)	13.63	98	825967	55.59	ug/L	-0.03
Spiked Amount 50.000 Range 75 - 126 Recovery = 111.18%						
75) Bromofluorobenzene (surr)	16.41	95	381525	62.94	ug/L	-0.02
Spiked Amount 50.000 Range 76 - 120 Recovery = 125.88%#						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.13	85	614397	188.04	ug/L	97
3) Chloromethane	4.64	50	1172269	280.01	ug/L	98
4) Vinyl Chloride	4.82	62	1039370	310.28	ug/L	92
5) Bromomethane	5.59	94	531700	174.67	ug/L	96
6) Chloroethane	5.87	64	636916	321.06	ug/L	96
7) Trichlorofluoromethane	6.20	101	1090322	271.56	ug/L	99
8) Ethanol	7.04	45	178837	7208.12	ug/L	92
9) 1,2-Dichloro-1,1,2-triflur	0.00	117		N.D.	d	
10) acrolein	7.89	56	1204572	6068.29	ug/L	97
11) 1,1,2Trichloro-1,2,2triflu	7.35	151	859715	439.44	ug/L #	57
12) 1,1-Dichloroethene	7.29	96	796430	322.87	ug/L #	88
13) Acetone	8.38	43	1422813	1620.60	ug/L	100
14) Iodomethane	7.58	142	5544528	1248.70	ug/L	88
15) Carbon disulfide	7.38	76	14840014	1661.78	ug/L	99
16) Acetonitrile	9.14	41	1472676	2905.45	ug/L	93
17) 3-chloropropene	8.16	41	1535846	379.92	ug/L #	94
18) Methylene Chloride	8.34	84	1039709	360.82	ug/L #	78
19) Acrylonitrile	9.62	53	2659989	4674.64	ug/L	93
20) Methyl tert-butyl ether	8.76	73	2354761	289.79	ug/L	91
21) t-1,2-Dichloroethene	8.63	96	913179	301.31	ug/L	89
22) 1,1-Dichloroethane	9.57	63	1733518	330.01	ug/L	95
23) Vinyl Acetate	9.07	43	11316816	1727.29	ug/L	100
24) Isopropyl ether	9.35	45	3703410m	327.20	ug/L	91
25) Chloroprene	9.55	88	758858	320.11	ug/L	95
26) 2-Butanone	11.01	72	483594	1635.25	ug/L #	48
27) c-1,2-Dichloroethene	10.32	96	1011523	303.62	ug/L	98
28) 2,2-Dichloropropane	10.48	77	951687	391.31	ug/L	97
29) Propionitrile	11.40	54	1327677	3209.29	ug/L	84
30) Methacrylonitrile	11.44	41	6539159	2850.19	ug/L	92
31) Bromochloromethane	10.59	128	372540	249.23	ug/L	98
32) Chloroform	10.65	83	1668336	284.70	ug/L	99
33) Dibromofluoromethane	10.89	113	233461	63.29	ug/L	80
35) 1,1,1-Trichloroethane	10.96	97	1237209	283.30	ug/L	89
36) 1,1-Dichloropropene	11.11	75	1257041	313.87	ug/L	94
37) Isobutyl alcohol	11.51	43	1627781m	6161.44	ug/L	67
39) Carbon Tetrachloride	10.08	117	1033880	216.64	ug/L	98
40) d4-1,2-Dichloroethane	11.57	65	280561	49.76	µg/L #	82
42) 1,2-Dichloroethane	11.64	62	1287467	221.15	ug/L #	15
43) Benzene	11.43	78	3437872	232.13	ug/L	98
44) Trichloroethene	12.10	130	785982	201.11	ug/L	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067KW\7KY015.D Vial: 15
Acq On : 30 Nov 2006 21:59 Operator: ds
Sample : BA00075-CAL7 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 11:35 2006 Quant Results File: 8260W6JV.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6JV.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Mon Oct 30 10:57:29 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6JV

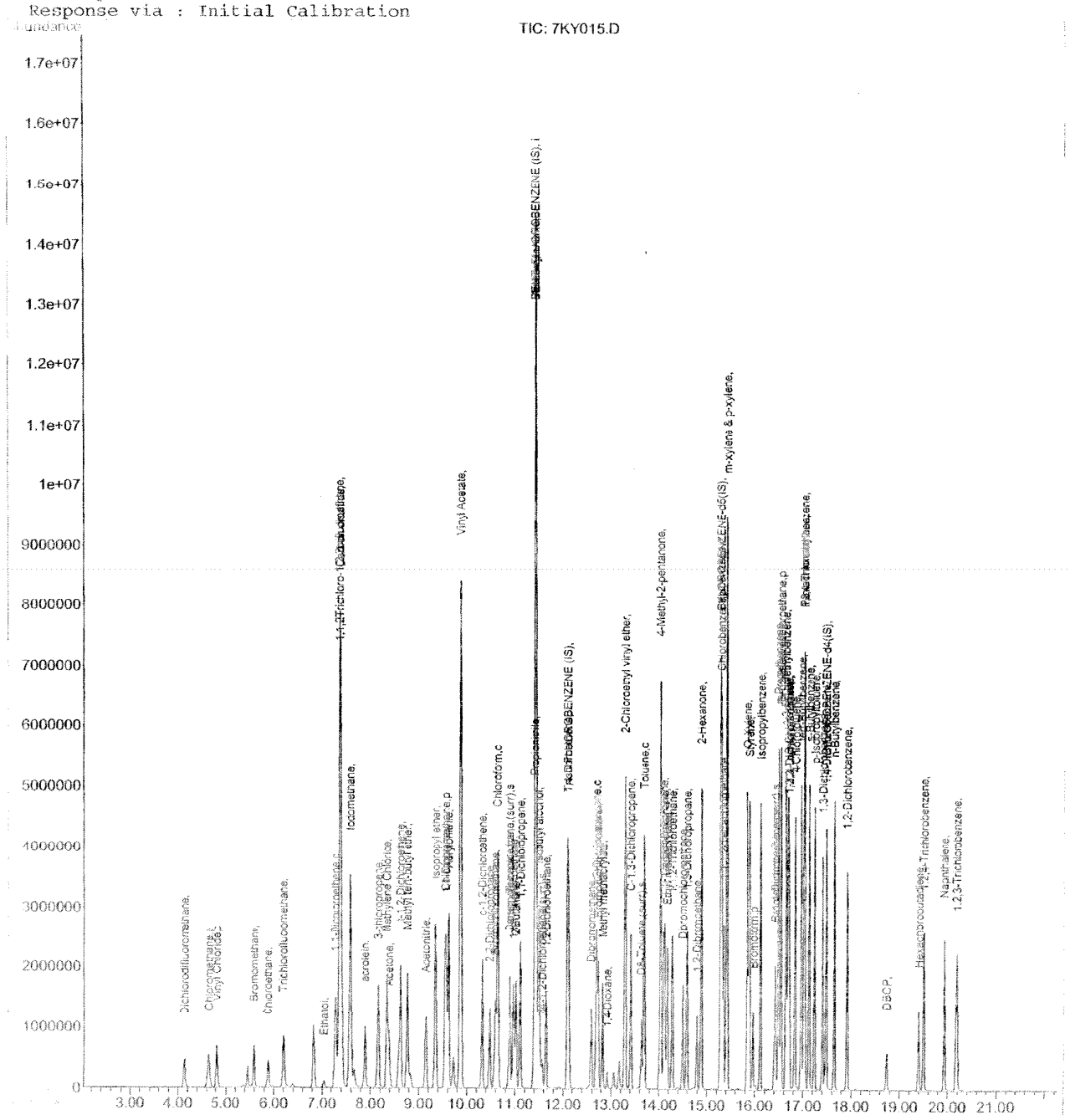
Compound	R.T.	QIon	Response	Conc Unit		Qvalue
45) 1,2-Dichloropropane	12.69	63	1004376	256.92 ug/L		88
46) Methyl methacrylate	12.83	69	667604	265.46 ug/L		82
47) 1,4-Dioxane	12.93	88	172604	5010.62 ug/L		95
48) Dibromomethane	12.58	93	619961	218.82 ug/L	#	75
49) Bromodichloromethane	13.73	83	1358516	242.98 ug/L		99
50) 2-Chloroethyl vinyl ether	13.29	63	2234531	3648.34 ug/L		90
51) C-1,3-Dichloropropene	13.41	75	1543446	251.53 ug/L		99
52) 4-Methyl-2-pentanone	14.02	100	610726	1165.81 ug/L	#	23
53) D8-Toluene	13.63	98	825967	55.59 ug/L		97
56) Toluene	13.69	92	2066155	196.76 ug/L		99
57) T-1,3-Dichloropropene	14.09	75	1289171	212.61 ug/L		99
58) Ethyl methacrylate	14.17	69	1289437	232.12 ug/L		88
59) 1,1,2-Trichloroethane	14.28	97	790276	217.92 ug/L		90
60) 1,3-Dichloropropane	14.58	76	1524044	214.02 ug/L		99
61) Tetrachloroethene	14.12	164	583951	106.03 ug/L		94
62) 2-Hexanone	14.88	43	3699448	1045.15 ug/L		91
63) Dibromochloromethane	14.49	129	889301	199.84 ug/L		99
64) 1,2-Dibromoethane	14.79	107	834817	194.51 ug/L		99
65) Chlorobenzene	15.30	112	2145684	189.38 ug/L		97
66) 1,1,1,2-Tetrachloroethane	15.34	131	730701	177.55 ug/L		100
67) Ethylbenzene	15.28	106	1112523	201.13 ug/L		78
68) m-xylene & p-xylene	15.41	106	2766374	400.84 ug/L		97
69) O-Xylene	15.84	106	1344813	211.88 ug/L		94
70) Styrene	15.88	104	2337176m	218.39 ug/L		95
71) Bromoform	15.96	173	489637	164.68 ug/L		99
72) Isopropylbenzene	16.11	105	3038360	210.48 ug/L		97
73) C-1,4-Dichloro-2-butene	16.43	53	372147	251.47 ug/L	#	39
74) Bromofluorobenzene	16.41	95	381525	62.94 ug/L	#	83
76) 1,1,2,2-Tetrachloroethane	16.54	83	1161133	256.23 ug/L		98
77) Bromobenzene	16.54	156	796237	181.09 ug/L		100
78) 1,2,3-Trichloropropane	16.70	75	1389705	256.90 ug/L	#	44
79) T-1,4-Dichloro-2-Butene	16.70	53	340807	215.47 ug/L	#	87
80) n-Propylbenzene	16.49	91	4486894	230.03 ug/L		90
82) 2-Chlorotoluene	16.68	91	2804702m	204.69 ug/L		96
83) 1,3,5-Trimethylbenzene	16.63	105	2797748	221.26 ug/L		99
84) 4-Chlorotoluene	16.83	91	2771374	230.54 ug/L		94
85) tert-Butylbenzene	16.96	119	2241733	211.02 ug/L		98
86) Pentachloroethane	17.03	167	439370	889.80 ug/L		95
87) 1,2,4-Trimethylbenzene	17.02	105	2939647	221.72 ug/L		97
88) s-Butylbenzene	17.13	105	3549789	217.16 ug/L		90
89) 1,3-Dichlorobenzene	17.40	146	1478086	179.39 ug/L		97
90) p-Isopropyltoluene	17.24	119	2708340	215.38 ug/L		95
91) 1,4-Dichlorobenzene	17.48	146	1520826	179.07 ug/L		98
92) n-Butylbenzene	17.65	91	2942440	234.45 ug/L		94
93) 1,2-Dichlorobenzene	17.92	146	1440264	187.66 ug/L		98
94) DBCP	18.74	157	156343	175.21 ug/L	#	79
95) 1,2,4-Trichlorobenzene	19.50	180	873361	165.74 ug/L		100
96) Hexachlorobutadiene	19.41	225	238826	151.61 ug/L		99
97) Naphthalene	19.93	128	2246046	199.55 ug/L		98
98) 1,2,3-Trichlorobenzene	20.18	180	791908	161.71 ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\20067KW\7KY015.D Vial: 15
Acq On : 30 Nov 2006 21:59 Operator: ds
Sample : BA00075-CAL7 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 1 11:35 2006 Quant Results File: 8260W6JV.RES

Method : C:\HPCHEM\1\METHODS\8260W6JV.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Mon Oct 30 10:57:29 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067KW\7KY019.D Vial: 19
Acq On : 1 Dec 2006 00:02 Operator: ds
Sample : BA00075-ICV1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 4 11:28 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6JV

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) PENTAFLUOROBENZENE (IS)	11.44	168	300481	50.00 ug/L	0.00
38) 1,4-DIFLUOROBENZENE (IS)	12.10	114	659866	50.00 ug/L	0.00
55) CHLOROBENZENE-d5(IS)	15.28	117	692327	50.00 ug/L	0.00
81) 1,4-DICHLOROBENZENE-d4(IS)	17.47	152	311610	50.00 ug/L	0.00
System Monitoring Compounds					
34) Dibromofluoromethane (surr	10.89	113	246942	49.63 ug/L	0.00
Spiked Amount 50.000 Range 71 - 136 Recovery = 99.26%					
41) d4-1,2-Dichloroethane(surr	11.56	65	294408	46.75 µg/L	0.00
Spiked Amount 50.000 Range 70 - 130 Recovery = 93.50%					
54) D8-Toluene (surr)	13.63	98	851951	49.45 ug/L	0.00
Spiked Amount 50.000 Range 75 - 126 Recovery = 98.90%					
75) Bromofluorobenzene (surr)	16.40	95	378591	48.67 ug/L	0.00
Spiked Amount 50.000 Range 76 - 120 Recovery = 97.34%					
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.12	85	113619	38.65 ug/L	97
3) Chloromethane	4.64	50	169759	29.26 ug/L	96
4) Vinyl Chloride	4.82	62	143829	28.51 ug/L	92
5) Bromomethane	5.59	94	72446	22.53 ug/L	97
6) Chloroethane	5.88	64	87132	24.03 ug/L	96
7) Trichlorofluoromethane	6.21	101	141358	25.49 ug/L	96
8) Ethanol	7.04	45	3134	2.27 ug/L	74
9) 1,2-Dichloro-1,1,2-triflur	0.00	117		No Calib #	
10) acrolein	7.89	56	79871	64.79 ug/L	97
11) 1,1,2Trichloro-1,2,2triflu	7.36	151	47440	20.83 ug/L #	55
12) 1,1-Dichloroethene	7.28	96	83377	20.23 ug/L	88
13) Acetone	8.40	43	82506	49.26 ug/L	98
14) Iodomethane	7.58	142	89932	20.45 ug/L	87
15) Carbon disulfide	7.38	76	327947	19.41 ug/L	99
16) Acetonitrile	9.15	41	15732	18.96 ug/L	93
17) 3-chloropropene	8.16	41	153083	21.05 ug/L #	93
18) Methylene Chloride	8.34	84	112566	20.17 ug/L #	77
19) Acrylonitrile	9.62	53	40669	13.64 ug/L	88
20) Methyl tert-butyl ether	8.77	73	264549	21.14 ug/L	92
21) t-1,2-Dichloroethene	8.62	96	98974	21.01 ug/L	91
22) 1,1-Dichloroethane	9.58	63	197289	20.99 ug/L	96
23) Vinyl Acetate	9.87	43	216071	7.98 ug/L	93
24) Isopropyl ether	9.35	45	405294	20.48 ug/L #	79
25) Chloroprene	9.56	88	70367	19.57 ug/L	97
26) 2-Butanone	11.03	72	23435	44.37 ug/L #	36
27) c-1,2-Dichloroethene	10.32	96	103535	20.58 ug/L	97
28) 2,2-Dichloropropane	10.48	77	100889	18.85 ug/L	95
29) Propionitrile	11.55	54	609	0.84 ug/L	79
30) Methacrylonitrile	11.43	41	73896	19.53 ug/L	88
31) Bromochloromethane	10.58	128	44150	21.30 ug/L	97
32) Chloroform	10.65	83	174597	19.50 ug/L	98
33) Dibromofluoromethane	10.89	113	246942	49.63 ug/L	82
35) 1,1,1-Trichloroethane	10.97	97	137656	21.05 ug/L	89
36) 1,1-Dichloropropene	11.12	75	132724	20.92 ug/L	93
37) Isobutyl alcohol	11.50	43	111365	264.70 ug/L #	49
39) Carbon Tetrachloride	10.89	117	110554	20.96 ug/L	98
40) d4-1,2-Dichloroethane	11.56	65	294408	46.75 µg/L #	82
42) 1,2-Dichloroethane	11.65	62	138122	19.32 ug/L #	15
43) Benzene	11.42	78	370423	20.68 ug/L	99
44) Trichloroethene	12.09	130	87900	21.58 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067KW\7KY019.D Vial: 19
Acq On : 1 Dec 2006 00:02 Operator: ds
Sample : BA00075-ICV1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 4 11:28 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6JV

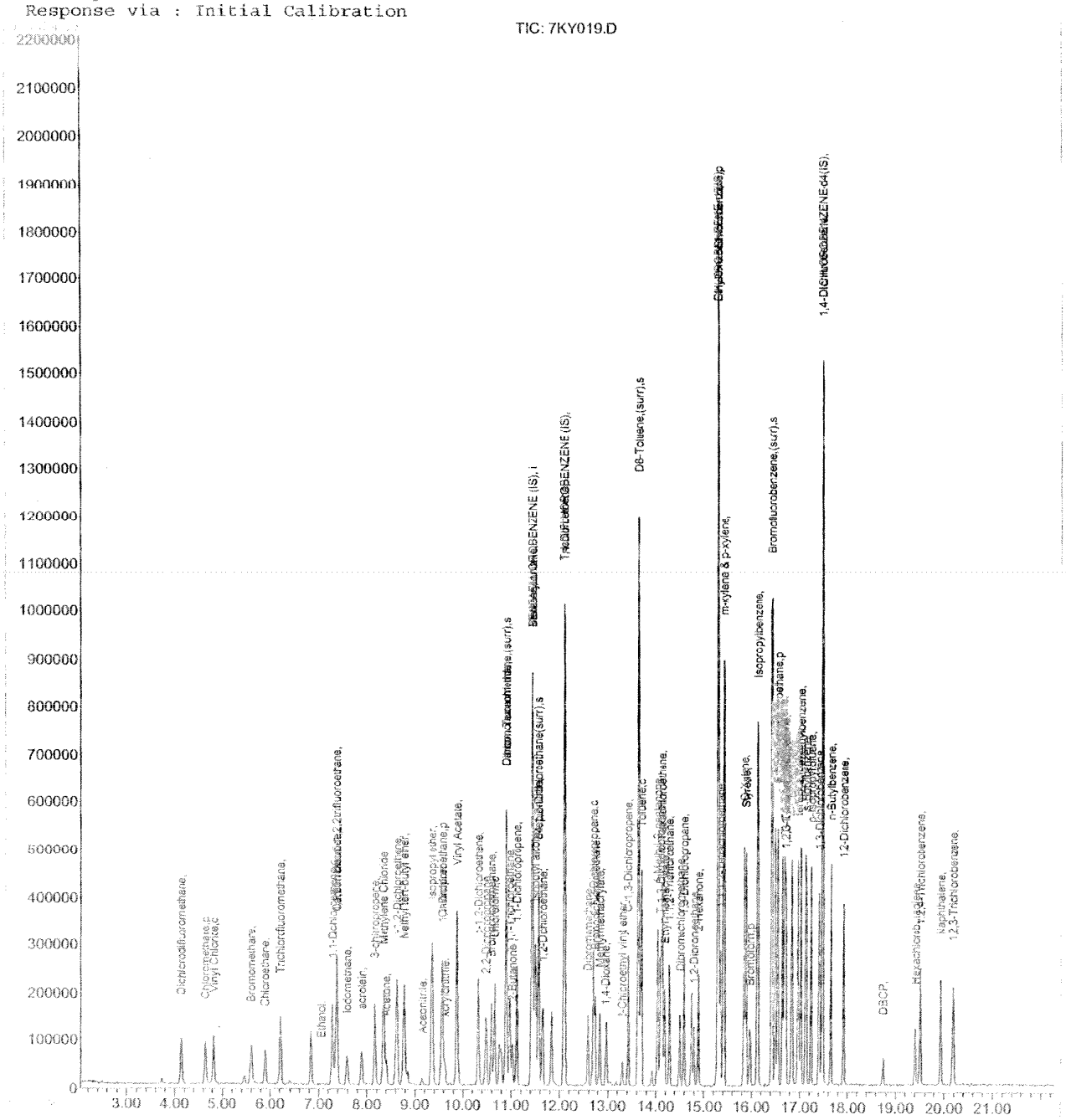
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) 1,2-Dichloropropane	12.69	63	105737	20.42 ug/L	90
46) Methyl methacrylate	12.83	69	62666	20.28 ug/L	79
47) 1,4-Dioxane	12.94	88	947	15.82 ug/L #	1
48) Dibromomethane	12.59	93	65575	20.21 ug/L #	74
49) Bromodichloromethane	12.73	83	125159	17.65 ug/L	96
50) 2-Chloroethyl vinyl ether	13.29	63	20943	34.81 ug/L	87
51) C-1,3-Dichloropropene	13.41	75	155517	20.77 ug/L	98
52) 4-Methyl-2-pentanone	14.03	100	29443	49.23 ug/L #	5
53) D8-Toluene	13.63	98	851951	49.45 ug/L	98
56) Toluene	13.69	92	210015	19.99 ug/L	94
57) T-1,3-Dichloropropene	14.09	75	139782	21.60 ug/L	96
58) Ethyl methacrylate	14.17	69	112453	18.14 ug/L	89
59) 1,1,2-Trichloroethane	14.27	97	81382	19.55 ug/L	92
60) 1,3-Dichloropropane	14.58	76	150605	19.92 ug/L	99
61) Tetrachloroethene	14.12	164	92728	19.89 ug/L	92
62) 2-Hexanone	14.88	43	180929	47.41 ug/L	92
63) Dibromochloromethane	14.50	129	83169	20.23 ug/L	99
64) 1,2-Dibromoethane	14.79	107	83139	20.30 ug/L	97
65) Chlorobenzene	15.30	112	213789	20.34 ug/L	97
66) 1,1,1,2-Tetrachloroethane	15.34	131	70196	19.71 ug/L	98
67) Ethylbenzene	15.28	106	104818	19.61 ug/L #	69
68) m-xylene & p-xylene	15.42	106	270758	41.11 ug/L	92
69) O-Xylene	15.84	106	129652	20.21 ug/L	92
70) Styrene	15.88	104	225491	20.61 ug/L	97
71) Bromoform	15.96	173	42711	18.91 ug/L	96
72) Isopropylbenzene	16.11	105	332340	23.12 ug/L	94
73) C-1,4-Dichloro-2-butene	16.48	53	2583	-1.10 ug/L	100
74) Bromofluorobenzene	16.40	95	378591	48.67 ug/L #	82
76) 1,1,2,2-Tetrachloroethane	16.54	83	108827	19.53 ug/L	95
77) Bromobenzene	16.54	156	73141	19.01 ug/L	96
78) 1,2,3-Trichloropropane	16.71	75	138268	19.55 ug/L #	44
79) T-1,4-Dichloro-2-Butene	16.70	53	34291	18.00 ug/L #	77
80) n-Propylbenzene	16.48	91	443414	20.19 ug/L	88
82) 2-Chlorotoluene	16.68	91	295961	21.10 ug/L	94
83) 1,3,5-Trimethylbenzene	16.64	105	263070	20.14 ug/L	98
84) 4-Chlorotoluene	16.83	91	269433	19.98 ug/L	92
85) tert-Butylbenzene	16.97	119	211861	20.97 ug/L	93
86) Pentachloroethane	0.00	167		No Calib	
87) 1,2,4-Trimethylbenzene	17.01	105	271460	20.03 ug/L	99
88) s-Butylbenzene	17.12	105	344313	20.88 ug/L	88
89) 1,3-Dichlorobenzene	17.40	146	143534	19.90 ug/L	98
90) p-Isopropyltoluene	17.23	119	249229	20.43 ug/L	95
91) 1,4-Dichlorobenzene	17.48	146	149767	20.61 ug/L	95
92) n-Butylbenzene	17.65	91	263645	19.34 ug/L	94
93) 1,2-Dichlorobenzene	17.91	146	138606	20.80 ug/L	96
94) DBCP	18.73	157	12809	19.66 ug/L	87
95) 1,2,4-Trichlorobenzene	19.50	180	69070	18.37 ug/L	94
96) Hexachlorobutadiene	19.40	225	19777	18.74 ug/L	94
97) Naphthalene	19.93	128	195091	19.12 ug/L	99
98) 1,2,3-Trichlorobenzene	20.18	180	67115	18.54 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

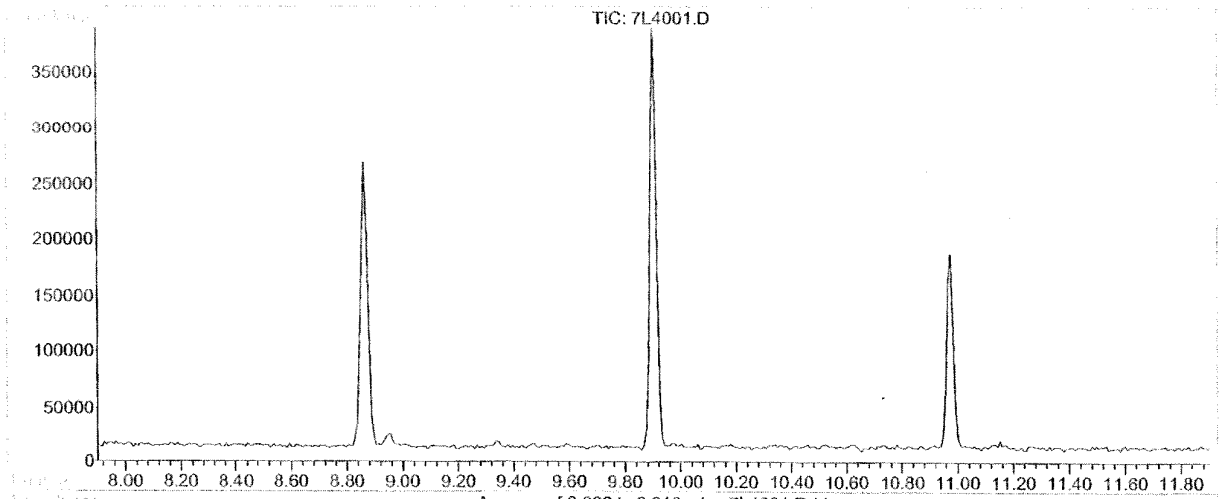
Data File : C:\HPCHEM\1\DATA\20067KW\7KY019.D Vial: 19
Acq On : 1 Dec 2006 00:02 Operator: ds
Sample : BA00075-ICV1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 4 11:28 2006 Quant Results File: 8260W6L1.RES

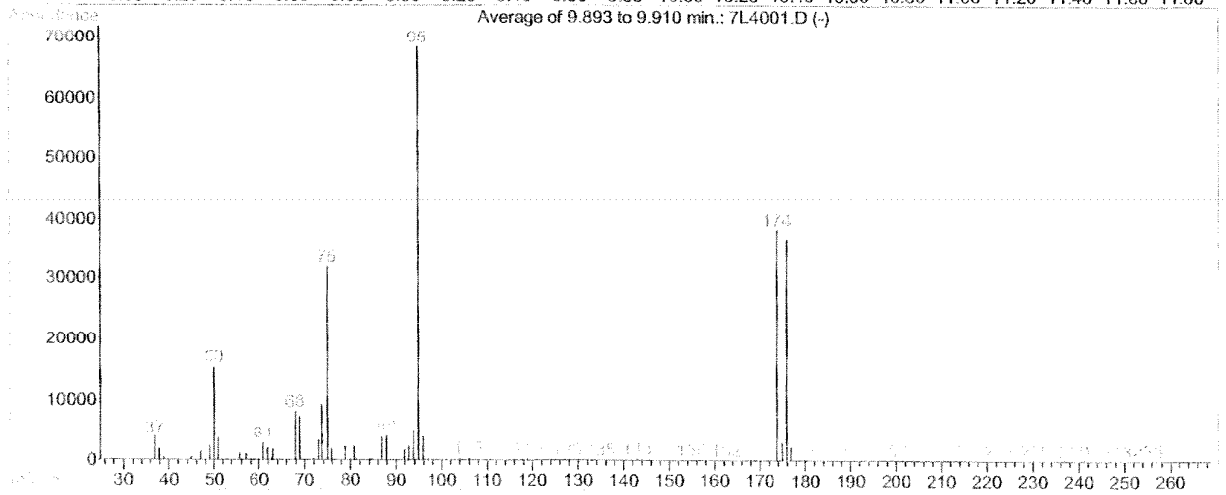
Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration



BFB

Data File : C:\HPCHEM\1\DATA\20067L4\7L4001.D Vial: 1
Acq On : 4 Dec 2006 9:59 Operator: jdb
Sample : ba00076-tun1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260





Spectrum Information: Average of 9.893 to 9.910 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.5	15370	PASS
75	95	30	60	46.7	31925	PASS
95	95	100	100	100.0	68414	PASS
96	95	5	9	5.8	3998	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	56.1	38383	PASS
175	174	5	9	7.9	3033	PASS
176	174	95	101	95.1	36504	PASS
177	176	5	9	6.1	2226	PASS

7L4001.D 8260W6L1.M Sun Dec 10 14:24:33 2006

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4002.D Vial: 2
Acq On : 4 Dec 2006 10:30 Operator: jdb
Sample : ba00076-ccv1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
1	i	PENTAFLUOROBENZENE (IS)	1.000	1.000	0.0	97	-0.02	
2		Dichlorodifluoromethane	0.489	0.538	-10.0	96	-0.02	
3	p	Chloromethane	0.966	1.007	-4.2	97	-0.01	
4	c	Vinyl Chloride	0.840	0.907	-8.0	100	-0.01	
5		Bromomethane	50.000	64.288	-28.6#	110	-0.02	L
6		Chloroethane	0.603	0.611	-1.3	103	-0.01	
7		Trichlorofluoromethane	0.923	1.086	-17.7	105	-0.01	
8		Ethanol	1000.000	980.563	1.9	85	-0.02	L
9		1,2-Dichloro-1,1,2-trifluro	0.000	0.000	0.0	0#	0.06	
10		acrolein	0.205	0.231	-12.7	114	-0.02	
11		1,1,2Trichloro-1,2,2trifluo	0.379	0.372	1.8	93	-0.02	
12	c	1,1-Dichloroethene	0.686	0.682	0.6	95	-0.01	
13		Acetone	0.279	0.272	2.5	102	-0.01	
14		Iodomethane	250.000	246.799	1.3	95	-0.02	L
15		Carbon disulfide	2.812	3.070	-9.2	103	-0.02	
16		Acetonitrile	0.138	0.128	7.2	96	-0.02	
17		3-chloropropene	1.210	1.320	-9.1	98	-0.02	
18		Methylene Chloride	50.000	51.415	-2.8	97	-0.02	L
19		Acrylonitrile	0.496	0.482	2.8	102	-0.01	
20		Methyl tert-butyl ether	2.082	2.058	1.2	94	-0.02	
21		t-1,2-Dichloroethene	0.784	0.782	0.3	97	-0.02	
22	p	1,1-Dichloroethane	1.564	1.514	3.2	95	-0.02	
23		Vinyl Acetate	250.000	476.316	-90.5#	166	-0.02	L
24		Isopropyl ether	3.293	3.290	0.1	97	-0.02	
25		Chloroprene	0.598	0.643	-7.5	99	-0.01	
26		2-Butanone	0.088	0.091	-3.4	101	-0.01	
27		c-1,2-Dichloroethene	0.837	0.880	-5.1	101	-0.01	
28		2,2-Dichloropropane	0.891	1.110	-24.6#	122	-0.02	
29		Propionitrile	0.120	0.114	5.0	94	-0.02	
30		Methacrylonitrile	0.630	0.625	0.8	95	-0.02	
31		Bromochloromethane	0.345	0.331	4.1	93	-0.01	
32	c	Chloroform	1.490	1.429	4.1	94	-0.02	
33		Dibromofluoromethane	0.828	0.825	0.4	98	-0.01	
34	s	Dibromofluoromethane (surr)	0.828	0.825	0.4	98	-0.01	
35		1,1,1-Trichloroethane	1.088	1.068	1.8	94	-0.02	
36		1,1-Dichloropropene	1.056	1.065	-0.9	94	-0.02	
37		Isobutyl alcohol	0.070	0.073	-4.3	98	-0.02	
38		1,4-DIFLUOROBENZENE (IS)	1.000	1.000	0.0	101	-0.02	
39		Carbon Tetrachloride	0.400	0.382	4.5	92	-0.02	
40		d4-1,2-Dichloroethane	0.477	0.449	5.9	94	-0.02	
41	s	d4-1,2-Dichloroethane(surr)	0.477	0.449	5.9	94	-0.02	
42		1,2-Dichloroethane	0.542	0.502	7.4	95	-0.02	
43		Benzene	1.357	1.320	2.7	96	-0.02	
44		Trichloroethene	0.309	0.281	9.1	86	-0.01	
45	c	1,2-Dichloropropane	0.392	0.393	-0.3	94	-0.02	
46		Methyl methacrylate	0.234	0.237	-1.3	96	-0.02	
47		1,4-Dioxane	1000.000	979.351	2.1	96	-0.02	L
48		Dibromomethane	0.246	0.229	6.9	95	-0.02	
49		Bromodichloromethane	0.537	0.516	3.9	97	-0.02	
50		2-Chloroethyl vinyl ether	250.000	274.844	-9.9	116	-0.02	L
51		c-1,3-Dichloropropene	0.567	0.590	-4.1	96	-0.01	
52		4-Methyl-2-pentanone	0.045	0.049	-8.9	107	-0.01	
53		D8-Toluene	1.305	1.293	0.9	98	-0.01	
54	s	D8-Toluene (surr)	1.305	1.293	0.9	98	-0.01	

(#) = Out of Range
7L4002.D 8260W6L1.M Sun Dec 10 14:26:11 2006

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4002.D Vial: 2
Acq On : 4 Dec 2006 10:30 Operator: jdb
Sample : ba00076-ccv1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
56	c	Toluene	0.759	0.710	6.5	96	-0.02	
57		T-1,3-Dichloropropene	0.467	0.468	-0.2	97	-0.02	
58		Ethyl methacrylate	0.448	0.428	4.5	95	-0.01	
59		1,1,2-Trichloroethane	0.301	0.277	8.0	96	-0.02	
60		1,3-Dichloropropane	0.575	0.546	5.0	98	-0.01	
61		Tetrachloroethene	50.000	29.638	40.7#	61	-0.02	L
62		2-Hexanone	0.276	0.291	-5.4	103	-0.01	
63		Dibromochloromethane	0.297	0.290	2.4	95	-0.02	
64		1,2-Dibromoethane	0.296	0.282	4.7	92	-0.02	
65	p	Chlorobenzene	0.759	0.718	5.4	94	-0.01	
66		1,1,1,2-Tetrachloroethane	0.257	0.242	5.8	92	-0.02	
67	c	Ethylbenzene	0.386	0.364	5.7	90	-0.01	
68		m-xylene & p-xylene	0.476	0.464	2.5	98	-0.01	
69		O-Xylene	0.463	0.469	-1.3	100	0.01	
70		Styrene	0.790	0.802	-1.5	97	-0.01	
71	p	Bromoform	50.000	45.230	9.5	95	0.00	L
72		Isopropylbenzene	1.038	1.040	-0.2	95	-0.01	
73		C-1,4-Dichloro-2-butene	50.000	52.084	-4.2	100	0.00	L
74		Bromofluorobenzene	0.562	0.565	-0.5	104	-0.01	
75	s	Bromofluorobenzene (surr)	0.562	0.565	-0.5	104	-0.01	
76	p	1,1,2,2-Tetrachloroethane	0.403	0.415	-3.0	108	-0.01	
77		Bromobenzene	0.278	0.260	6.5	95	-0.01	
78		1,2,3-Trichloropropane	0.511	0.510	0.2	99	-0.01	
79		T-1,4-Dichloro-2-Butene	0.138	0.130	5.8	100	-0.01	
80		n-Propylbenzene	1.586	1.567	1.2	96	-0.01	
81		1,4-DICHLOROBENZENE-d4(IS)	1.000	1.000	0.0	107	-0.01	
82		2-Chlorotoluene	2.251	2.219	1.4	105	-0.01	
83		1,3,5-Trimethylbenzene	2.095	1.979	5.5	94	-0.01	
84		4-Chlorotoluene	2.164	1.989	8.1	96	-0.01	
85		tert-Butylbenzene	1.621	1.529	5.7	96	-0.01	
86		Pentachloroethane	50.000	0.000	100.0#	0	-0.01	L
87		1,2,4-Trimethylbenzene	2.174	2.062	5.2	94	0.00	
88		s-Butylbenzene	2.645	2.616	1.1	98	-0.01	
89		1,3-Dichlorobenzene	1.157	1.056	8.7	98	-0.01	
90		p-Isopropyltoluene	1.958	1.943	0.8	98	0.00	
91		1,4-Dichlorobenzene	1.166	1.081	7.3	99	-0.01	
92		n-Butylbenzene	2.187	2.207	-0.9	101	0.00	
93		1,2-Dichlorobenzene	1.069	1.004	6.1	95	-0.01	
94		DBCP	50.000	44.760	10.5	100	-0.01	L
95		1,2,4-Trichlorobenzene	0.610	0.572	6.2	96	-0.02	
96		Hexachlorobutadiene	50.000	46.762	6.5	101	-0.02	L
97		Naphthalene	1.637	1.429	12.7	91	-0.01	
98		1,2,3-Trichlorobenzene	0.581	0.523	10.0	93	-0.01	

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7L4002.D 8260W6L1.M Sun Dec 10 14:26:12 2006

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4002.D Vial: 2
Acq On : 4 Dec 2006 10:30 Operator: jdb
Sample : ba00076-ccv1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 4 10:59 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) PENTAFLUOROBENZENE (IS)	11.42	168	265238	50.00 ug/L	-0.02
38) 1,4-DIFLUOROBENZENE (IS)	12.08	114	603997	50.00 ug/L	-0.02
55) CHLOROBENZENE-d5(IS)	15.26	117	646439	50.00 ug/L	-0.02
81) 1,4-DICHLOROBENZENE-d4(IS)	17.45	152	310542	50.00 ug/L	-0.01
System Monitoring Compounds					
34) Dibromofluoromethane (surr	10.88	113	218831	49.82 ug/L	-0.01
Spiked Amount 50.000 Range 71 - 136 Recovery = 99.64%					
41) d4-1,2-Dichloroethane(surr	11.55	65	271404	47.08 µg/L	-0.02
Spiked Amount 50.000 Range 70 - 130 Recovery = 94.16%					
54) D8-Toluene (surr)	13.62	98	781014	49.53 ug/L	-0.01
Spiked Amount 50.000 Range 75 - 126 Recovery = 99.06%					
75) Bromofluorobenzene (surr)	16.40	95	365114	50.27 ug/L	-0.01
Spiked Amount 50.000 Range 76 - 120 Recovery = 100.54%					
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.11	85	142806	55.04 ug/L	100
3) Chloromethane	4.62	50	267095	52.15 ug/L	97
4) Vinyl Chloride	4.81	62	240686	54.04 ug/L	96
5) Bromomethane	5.57	94	159934	64.29 ug/L	95
6) Chloroethane	5.87	64	162015	50.63 ug/L	95
7) Trichlorofluoromethane	6.19	101	287935	58.83 ug/L	97
8) Ethanol	7.02	45	41219	980.56 ug/L	90
9) 1,2-Dichloro-1,1,2-triflur	0.00	117		No Calib #	
10) acrolein	7.87	56	306384	281.56 ug/L	98
11) 1,1,2Trichloro-1,2,2triflu	7.34	151	197434	98.20 ug/L #	42
12) 1,1-Dichloroethene	7.27	96	180911	49.72 ug/L #	85
13) Acetone	8.37	43	360087	243.55 ug/L	98
14) Iodomethane	7.56	142	1197889	246.80 ug/L	89
15) Carbon disulfide	7.36	76	4071583	272.98 ug/L	96
16) Acetonitrile	9.12	41	338287	461.79 ug/L	93
17) 3-chloropropene	8.13	41	350217	54.55 ug/L #	95
18) Methylene Chloride	8.31	84	242332	51.41 ug/L #	73
19) Acrylonitrile	9.60	53	639271	242.85 ug/L	95
20) Methyl tert-butyl ether	8.75	73	545814	49.42 ug/L	92
21) t-1,2-Dichloroethene	8.60	96	207297	49.86 ug/L	90
22) 1,1-Dichloroethane	9.55	63	401492	48.40 ug/L	96
23) Vinyl Acetate	9.85	43	3307262	476.32 ug/L	97
24) Isopropyl ether	9.33	45	872652	49.96 ug/L #	78
25) Chloroprene	9.53	88	170509	53.73 ug/L	93
26) 2-Butanone	11.00	72	120846m	259.22 ug/L	98
27) c-1,2-Dichloroethene	10.30	96	233500	52.59 ug/L	99
28) 2,2-Dichloropropane	10.46	77	294373	62.31 ug/L	99
29) Propionitrile	11.38	54	301534	472.01 ug/L	75
30) Methacrylonitrile	11.41	41	1658124	496.48 ug/L	85
31) Bromochloromethane	10.57	128	87924	48.06 ug/L	99
32) Chloroform	10.63	83	379075	47.96 ug/L	97
33) Dibromofluoromethane	10.88	113	218831	49.82 ug/L	80
35) 1,1,1-Trichloroethane	10.94	97	283404	49.11 ug/L	89
36) 1,1-Dichloropropene	11.09	75	282548	50.46 ug/L	94
37) Isobutyl alcohol	11.48	43	389748	1049.46 ug/L #	65
39) Carbon Tetrachloride	10.87	117	230840	47.82 ug/L	98
40) d4-1,2-Dichloroethane	11.55	65	271404	47.08 µg/L #	82
42) 1,2-Dichloroethane	11.63	62	302962	46.30 ug/L #	15
43) Benzene	11.41	78	797541	48.65 ug/L	98
44) Trichloroethene	12.08	130	169551	45.48 ug/L	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4002.D Vial: 2
Acq On : 4 Dec 2006 10:30 Operator: jdb
Sample : ba00076-ccv1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 4 10:59 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

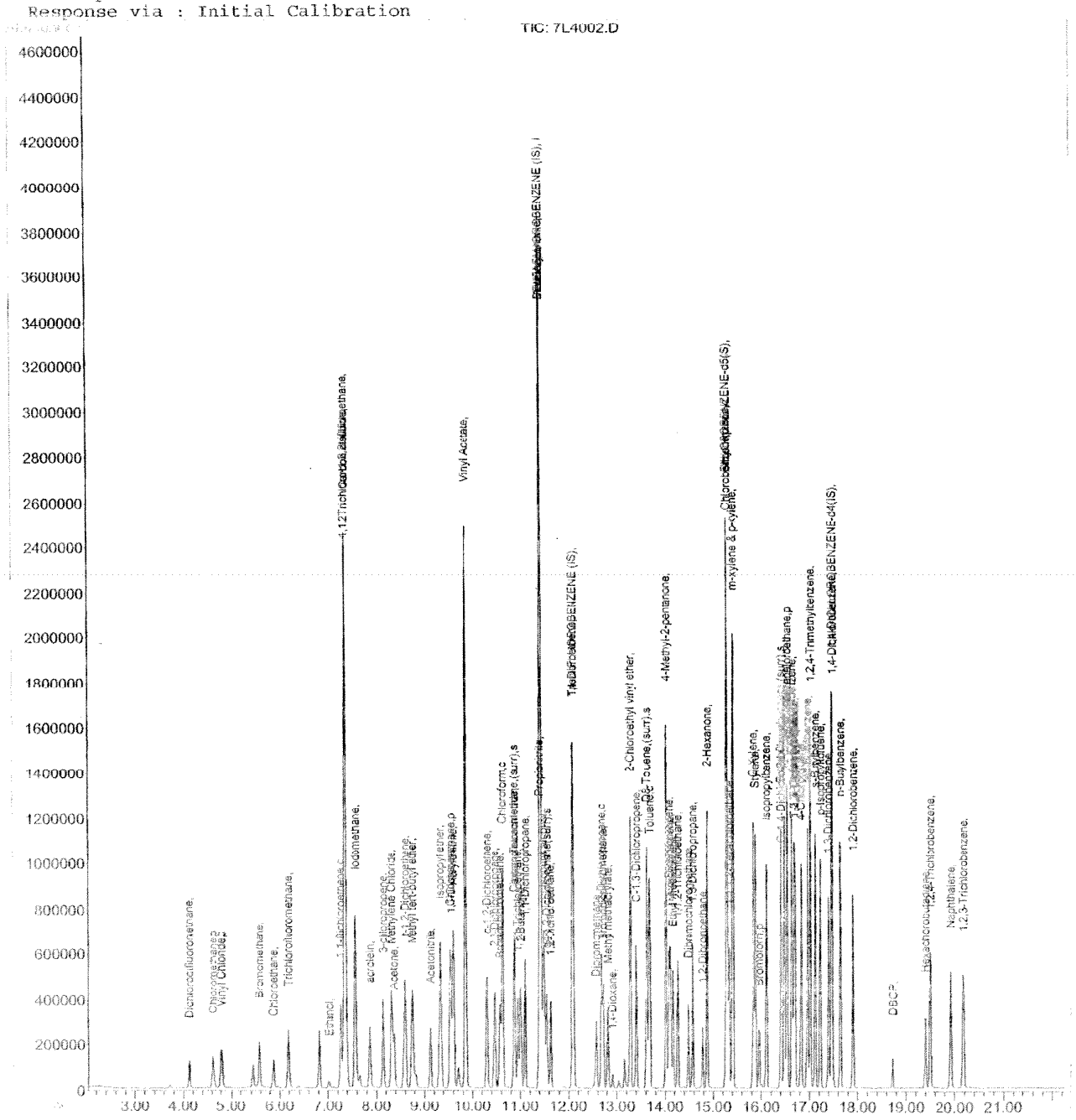
Compound	R.T.	QIon	Response	Conc Unit		Qvalue
45) 1,2-Dichloropropane	12.67	63	237300	50.08 ug/L		88
46) Methyl methacrylate	12.81	69	143381	50.70 ug/L		81
47) 1,4-Dioxane	12.91	88	39097	979.35 ug/L		87
48) Dibromomethane	12.56	93	138616	46.68 ug/L	#	76
49) Bromodichloromethane	12.71	83	311545	48.00 ug/L		98
50) 2-Chloroethyl vinyl ether	13.27	63	520747	274.84 ug/L		89
51) C-1,3-Dichloropropene	13.40	75	356418	52.00 ug/L		96
52) 4-Methyl-2-pentanone	14.01	100	147659	269.74 ug/L	#	7
53) D8-Toluene	13.62	98	781014	49.53 ug/L		99
56) Toluene	13.67	92	458671	46.75 ug/L		96
57) T-1,3-Dichloropropene	14.07	75	302784	50.10 ug/L		99
58) Ethyl methacrylate	14.16	69	276868	47.83 ug/L		87
59) 1,1,2-Trichloroethane	14.26	97	179353	46.14 ug/L		89
60) 1,3-Dichloropropane	14.56	76	353126	47.52 ug/L		96
61) Tetrachloroethene	14.10	164	130475	29.64 ug/L		94
62) 2-Hexanone	14.87	43	941909	264.31 ug/L		90
63) Dibromochloromethane	14.48	129	187261	48.79 ug/L		98
64) 1,2-Dibromoethane	14.77	107	182059	47.61 ug/L		99
65) Chlorobenzene	15.28	112	463852	47.27 ug/L		97
66) 1,1,1,2-Tetrachloroethane	15.32	131	156319	47.02 ug/L		99
67) Ethylbenzene	15.26	106	235029	47.10 ug/L	#	65
68) m-xylene & p-xylene	15.40	106	599485	97.47 ug/L		89
69) O-Xylene	15.83	106	303396	50.65 ug/L		97
70) Styrene	15.87	104	518601	50.76 ug/L		96
71) Bromoform	15.95	173	98941	45.23 ug/L		98
72) Isopropylbenzene	16.10	105	672536	50.10 ug/L		96
73) C-1,4-Dichloro-2-butene	16.42	53	92440	52.08 ug/L	#	1
74) Bromofluorobenzene	16.40	95	365114	50.27 ug/L		84
76) 1,1,2,2-Tetrachloroethane	16.53	83	268172	51.53 ug/L		96
77) Bromobenzene	16.53	156	168118	46.81 ug/L		100
78) 1,2,3-Trichloropropane	16.69	75	329469	49.88 ug/L	#	42
79) T-1,4-Dichloro-2-Butene	16.69	53	83929	47.19 ug/L	#	90
80) n-Propylbenzene	16.48	91	1012785	49.39 ug/L		90
82) 2-Chlorotoluene	16.67	91	689129	49.30 ug/L		95
83) 1,3,5-Trimethylbenzene	16.63	105	614685	47.23 ug/L		97
84) 4-Chlorotoluene	16.81	91	617808	45.97 ug/L		92
85) tert-Butylbenzene	16.95	119	474970	47.18 ug/L		95
86) Pentachloroethane	0.00	167		No Calib		
87) 1,2,4-Trimethylbenzene	17.01	105	640404	47.42 ug/L		99
88) s-Butylbenzene	17.12	105	812357	49.44 ug/L		90
89) 1,3-Dichlorobenzene	17.39	146	327831	45.60 ug/L		95
90) p-Isopropyltoluene	17.23	119	603427	49.63 ug/L		94
91) 1,4-Dichlorobenzene	17.47	146	335700	46.35 ug/L		97
92) n-Butylbenzene	17.64	91	685348	50.46 ug/L		92
93) 1,2-Dichlorobenzene	17.90	146	311685	46.94 ug/L		97
94) DBCP	18.73	157	31524m	44.76 ug/L		94
95) 1,2,4-Trichlorobenzene	19.49	180	177402	46.02 ug/L		98
96) Hexachlorobutadiene	19.39	225	51774	46.76 ug/L		96
97) Naphthalene	19.92	128	443713	43.64 ug/L		100
98) 1,2,3-Trichlorobenzene	20.18	180	162376	45.02 ug/L		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4002.D Vial: 2
Acq On : 4 Dec 2006 10:30 Operator: jdb
Sample : ba00076-ccv1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 4 10:59 2006 Quant Results File: 8260W6L1.RES

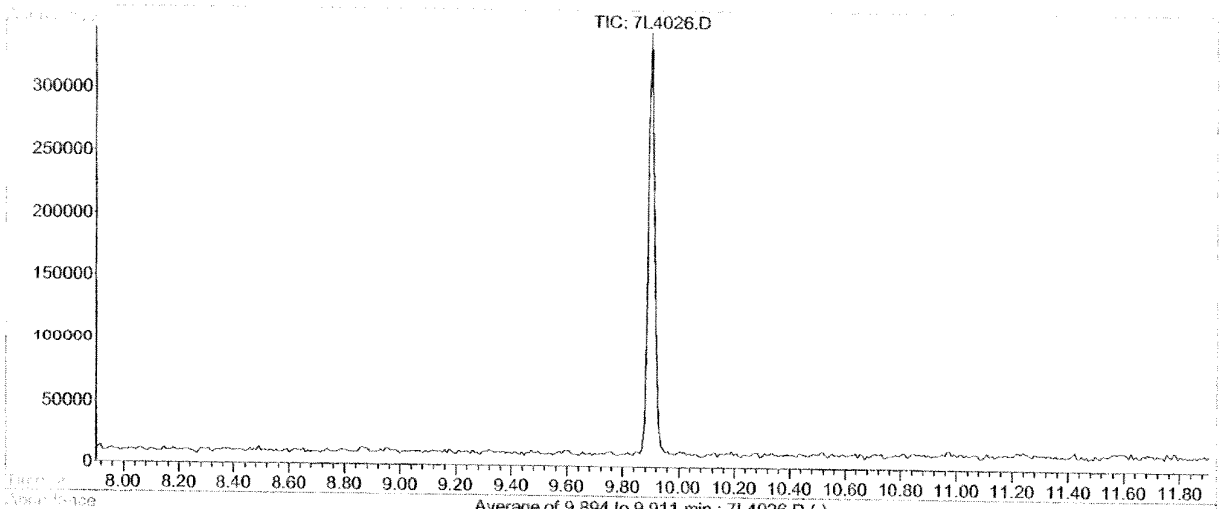
Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration

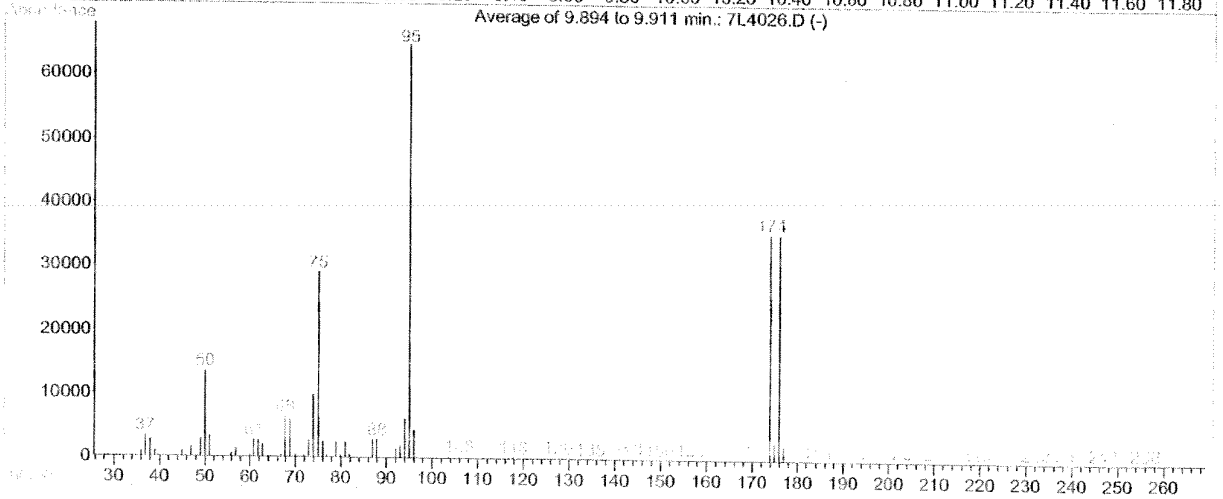


BFB

Data File : C:\HPCHEM\1\DATA\20067L4\7L4026.D
Acq On : 4 Dec 2006 22:47
Sample : ba00076-tun2
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260

Vial: 26
Operator: jdb
Inst : JVGCMS1
Multiplr: 1.00





Spectrum Information: Average of 9.894 to 9.911 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.8	13461	PASS
75	95	30	60	44.9	29091	PASS
95	95	100	100	100.0	64824	PASS
96	95	5	9	7.2	4673	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	55.1	35725	PASS
175	174	5	9	7.7	2764	PASS
176	174	95	101	99.5	35531	PASS
177	176	5	9	6.5	2326	PASS

7L4026.D 8260W6L1.M Sun Dec 10 14:24:10 2006

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4027.D Vial: 27
Acq On : 4 Dec 2006 23:18 Operator: jdb
Sample : ba00076-ccv2 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
1	i	PENTAFLUOROBENZENE (IS)	1.000	1.000	0.0	99	-0.02	
2		Dichlorodifluoromethane	0.489	0.500	-2.2	92	-0.02	
3	p	Chloromethane	0.966	0.999	-3.4	99	-0.02	
4	c	Vinyl Chloride	0.840	0.909	-8.2	103	-0.02	
5		Bromomethane	50.000	66.942	-33.9#	117	-0.02	L
6		Chloroethane	0.603	0.629	-4.3	109	0.00	
7		Trichlorofluoromethane	0.923	1.019	-10.4	101	-0.02	
8		Ethanol	1000.000	1123.766	-12.4	99	-0.02	L
9		1,2-Dichloro-1,1,2-trifluro	0.000	0.001	0.0	0#	0.01	
10		acrolein	0.205	0.206	-0.5	104	-0.02	
11		1,1,2Trichloro-1,2,2trifluo	0.379	0.387	-2.1	100	-0.02	
12	c	1,1-Dichloroethene	0.686	0.688	-0.3	98	-0.02	
13		Acetone	0.279	0.295	-5.7	113	-0.02	
14		Iodomethane	250.000	264.891	-6.0	105	-0.03	L
15		Carbon disulfide	2.812	3.256	-15.8	112	-0.02	
16		Acetonitrile	0.138	0.132	4.3	102	-0.02	
17		3-chloropropene	1.210	1.298	-7.3	99	-0.02	
18		Methylene Chloride	50.000	52.898	-5.8	102	-0.02	L
19		Acrylonitrile	0.496	0.500	-0.8	109	-0.02	
20		Methyl tert-butyl ether	2.082	2.021	2.9	95	-0.02	
21		t-1,2-Dichloroethene	0.784	0.804	-2.6	102	-0.02	
22	p	1,1-Dichloroethane	1.564	1.551	0.8	100	-0.02	
23		Vinyl Acetate	250.000	319.886	-28.0#	117	-0.02	L
24		Isopropyl ether	3.293	3.338	-1.4	101	-0.02	
25		Chloroprene	0.598	0.656	-9.7	104	-0.02	
26		2-Butanone	0.088	0.101	-14.8	114	-0.02	
27		c-1,2-Dichloroethene	0.837	0.868	-3.7	103	-0.02	
28		2,2-Dichloropropane	0.891	0.858	3.7	97	-0.02	
29		Propionitrile	0.120	0.121	-0.8	102	-0.02	
30		Methacrylonitrile	0.630	0.646	-2.5	101	-0.02	
31		Bromochloromethane	0.345	0.339	1.7	97	0.00	
32	c	Chloroform	1.490	1.446	3.0	98	-0.02	
33		Dibromofluoromethane	0.828	0.828	0.0	101	0.02	
34	s	Dibromofluoromethane (surr)	0.828	0.828	0.0	101	-0.02	
35		1,1,1-Trichloroethane	1.088	1.075	1.2	97	-0.02	
36		1,1-Dichloropropene	1.056	1.090	-3.2	99	-0.02	
37		Isobutyl alcohol	0.070	0.074	-5.7	102	0.00	
38		1,4-DIFLUOROBENZENE (IS)	1.000	1.000	0.0	104	-0.02	
39		Carbon Tetrachloride	0.400	0.370	7.5	92	-0.02	
40		d4-1,2-Dichloroethane	0.477	0.448	6.1	97	-0.02	
41	s	d4-1,2-Dichloroethane(surr)	0.477	0.448	6.1	97	-0.02	
42		1,2-Dichloroethane	0.542	0.492	9.2	96	-0.02	
43		Benzene	1.357	1.346	0.8	101	-0.02	
44		Trichloroethene	0.309	0.312	-1.0	99	0.00	
45	c	1,2-Dichloropropane	0.392	0.391	0.3	97	-0.02	
46		Methyl methacrylate	0.234	0.244	-4.3	100	0.02	
47		1,4-Dioxane	1000.000	964.619	3.5	97	-0.02	L
48		Dibromomethane	0.246	0.234	4.9	100	-0.02	
49		Bromodichloromethane	0.537	0.504	6.1	98	-0.02	
50		2-Chloroethyl vinyl ether	250.000	306.959	-22.8#	135	-0.02	L
51		c 1,3 Dichloropropene	0.567	0.578	-1.9	97	0.00	
52		4-Methyl-2-pentanone	0.045	0.051	-13.3	114	0.00	
53		D8-Toluene	1.305	1.285	1.5	100	0.00	
54	s	D8-Toluene (surr)	1.305	1.285	1.5	100	0.00	

(#) = Out of Range
7L4027.D 8260W6L1.M Sun Dec 10 14:25:36 2006

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4027.D Vial: 27
Acq On : 4 Dec 2006 23:18 Operator: jdb
Sample : ba00076-ccv2 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
56	c	Toluene	0.759	0.710	6.5	102	0.00	
57		T-1,3-Dichloropropene	0.467	0.444	4.9	97	-0.02	
58		Ethyl methacrylate	0.448	0.421	6.0	98	0.00	
59		1,1,2-Trichloroethane	0.301	0.270	10.3	99	-0.02	
60		1,3-Dichloropropane	0.575	0.529	8.0	100	0.00	
61		Tetrachloroethene	50.000	46.483	7.0	101	-0.02	L
62		2-Hexanone	0.276	0.310	-12.3	115	0.00	
63		Dibromochloromethane	0.297	0.283	4.7	97	-0.02	
64		1,2-Dibromoethane	0.296	0.285	3.7	97	-0.02	
65	p	Chlorobenzene	0.759	0.717	5.5	98	0.00	
66		1,1,1,2-Tetrachloroethane	0.257	0.240	6.6	96	-0.02	
67	c	Ethylbenzene	0.386	0.367	4.9	96	0.00	
68		m-xylene & p-xylene	0.476	0.449	5.7	100	-0.02	
69		O-Xylene	0.463	0.451	3.6	101	0.00	
70		Styrene	0.790	0.780	1.3	99	0.00	
71	p	Bromoform	50.000	42.790	14.4	95	0.00	L
72		Isopropylbenzene	1.038	1.023	1.4	98	-0.02	
73		C-1,4-Dichloro-2-butene	50.000	47.322	5.4	96	0.00	L
74		Bromofluorobenzene	0.562	0.557	0.9	107	-0.02	
75	s	Bromofluorobenzene (surr)	0.562	0.557	0.9	107	-0.02	
76	p	1,1,2,2-Tetrachloroethane	0.403	0.369	8.4	101	0.00	
77		Bromobenzene	0.278	0.249	10.4	96	0.00	
78		1,2,3-Trichloropropane	0.511	0.471	7.8	96	0.00	
79		T-1,4-Dichloro-2-Butene	0.138	0.122	11.6	99	0.00	
80		n-Propylbenzene	1.586	1.503	5.2	96	-0.02	
81		1,4-DICHLOROBENZENE-d4(IS)	1.000	1.000	0.0	110	0.00	
82		2-Chlorotoluene	2.251	2.220	1.4	107	0.00	
83		1,3,5-Trimethylbenzene	2.095	1.986	5.2	96	0.00	
84		4-Chlorotoluene	2.164	1.992	7.9	98	0.00	
85		tert-Butylbenzene	1.621	1.537	5.2	98	0.00	
86		Pentachloroethane	50.000	0.000	100.0#	0	0.00	L
87		1,2,4-Trimethylbenzene	2.174	2.066	5.0	96	0.00	
88		s-Butylbenzene	2.645	2.537	4.1	97	-0.02	
89		1,3-Dichlorobenzene	1.157	1.013	12.4	96	-0.02	
90		p-Isopropyltoluene	1.958	1.847	5.7	95	0.00	
91		1,4-Dichlorobenzene	1.166	1.052	9.8	98	-0.02	
92		n-Butylbenzene	2.187	2.080	4.9	97	0.00	
93		1,2-Dichlorobenzene	1.069	0.994	7.0	96	0.00	
94		DBCP	50.000	41.712	16.6	95	0.00	L
95		1,2,4-Trichlorobenzene	0.610	0.575	5.7	99	-0.02	
96		Hexachlorobutadiene	50.000	44.697	10.6	99	-0.02	L
97		Naphthalene	1.637	1.415	13.6	92	0.00	
98		1,2,3-Trichlorobenzene	0.581	0.507	12.7	92	-0.02	

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7L4027.D 8260W6L1.M Sun Dec 10 14:25:38 2006

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4027.D Vial: 27
Acq On : 4 Dec 2006 23:18 Operator: jdb
Sample : ba00076-ccv2 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 13:07 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) PENTAFLUOROBENZENE (IS)	11.42	168	272130	50.00 ug/L	-0.02
38) 1,4-DIFLUOROBENZENE (IS)	12.08	114	622558	50.00 ug/L	-0.02
55) CHLOROBENZENE-d5(IS)	15.27	117	680015	50.00 ug/L	-0.02
81) 1,4-DICHLOROBENZENE-d4(IS)	17.46	152	316961	50.00 ug/L	0.00
System Monitoring Compounds					
34) Dibromofluoromethane (surr	10.87	113	225435	50.03 ug/L	-0.02
Spiked Amount 50.000 Range 71 - 136 Recovery = 100.06%					
41) d4-1,2-Dichloroethane(surr	11.55	65	278688	46.90 µg/L	-0.02
Spiked Amount 50.000 Range 70 - 130 Recovery = 93.80%					
54) D8-Toluene (surr)	13.62	98	799852	49.21 ug/L	0.00
Spiked Amount 50.000 Range 75 - 126 Recovery = 98.42%					
75) Bromofluorobenzene (surr)	16.39	95	378508	49.54 ug/L	-0.02
Spiked Amount 50.000 Range 76 - 120 Recovery = 99.08%					
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.11	85	136080	51.12 ug/L	97
3) Chloromethane	4.62	50	271991	51.76 ug/L	97
4) Vinyl Chloride	4.80	62	247423	54.15 ug/L	94
5) Bromomethane	5.57	94	170349	66.94 ug/L	95
6) Chloroethane	5.87	64	171256	52.16 ug/L	97
7) Trichlorofluoromethane	6.18	101	277435	55.25 ug/L	96
8) Ethanol	7.02	45	48065	1123.77 ug/L	99
9) 1,2-Dichloro-1,1,2-triflur	0.00	117		No Calib #	
10) acrolein	7.87	56	280691	251.42 ug/L	94
11) 1,1,2Trichloro-1,2,2triflu	7.34	151	210392	102.00 ug/L #	52
12) 1,1-Dichloroethene	7.26	96	187095	50.12 ug/L #	86
13) Acetone	8.36	43	401729	264.83 ug/L	99
14) Iodomethane	7.55	142	1320739	264.89 ug/L	89
15) Carbon disulfide	7.36	76	4429763	289.48 ug/L	96
16) Acetonitrile	9.12	41	358990	477.64 ug/L	92
17) 3-chloropropene	8.14	41	353160	53.61 ug/L #	92
18) Methylene Chloride	8.31	84	255591	52.90 ug/L #	74
19) Acrylonitrile	9.60	53	680413	251.93 ug/L	94
20) Methyl tert-butyl ether	8.75	73	549882	48.53 ug/L	88
21) t-1,2-Dichloroethene	8.60	96	218794	51.30 ug/L	90
22) 1,1-Dichloroethane	9.56	63	422189	49.61 ug/L	95
23) Vinyl Acetate	9.85	43	2325191	319.89 ug/L	96
24) Isopropyl ether	9.33	45	908389	50.69 ug/L #	78
25) Chloroprene	9.53	88	178472	54.81 ug/L	100
26) 2-Butanone	11.00	72	136903	286.22 ug/L #	46
27) c-1,2-Dichloroethene	10.30	96	236185	51.84 ug/L	97
28) 2,2-Dichloropropane	10.46	77	233370	48.15 ug/L	98
29) Propionitrile	11.38	54	329430	502.62 ug/L	77
30) Methacrylonitrile	11.41	41	1756742	512.69 ug/L	86
31) Bromochloromethane	10.57	128	92316	49.18 ug/L	96
32) Chloroform	10.63	83	392431	48.62 ug/L	97
33) Dibromofluoromethane	10.87	113	225435	50.03 ug/L	82
35) 1,1,1-Trichloroethane	10.95	97	292655	49.42 ug/L	88
36) 1,1-Dichloropropene	11.10	75	296569	51.62 ug/L	94
37) Isobutyl alcohol	11.49	43	403321	1058.51 ug/L	65
39) Carbon Tetrachloride	10.87	117	230546	46.34 ug/L	96
40) d4-1,2-Dichloroethane	11.55	65	278688	46.90 µg/L #	80
42) 1,2-Dichloroethane	11.63	62	306386	45.43 ug/L #	14
43) Benzene	11.41	78	837859	49.58 ug/L	97
44) Trichloroethene	12.08	130	194321	50.57 ug/L	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4027.D Vial: 27
Acq On : 4 Dec 2006 23:18 Operator: jdb
Sample : ba00076-ccv2 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 8 13:07 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) 1,2-Dichloropropane	12.67	63	243614	49.88 ug/L	88
46) Methyl methacrylate	12.81	69	151981	52.14 ug/L	80
47) 1,4-Dioxane	12.91	88	39696	964.62 ug/L	82
48) Dibromomethane	12.56	93	145891	47.66 ug/L #	76
49) Bromodichloromethane	12.71	83	313508	46.86 ug/L	98
50) 2-Chloroethyl vinyl ether	13.27	63	605921	306.96 ug/L	88
51) C-1,3-Dichloropropene	13.40	75	359680	50.91 ug/L	97
52) 4-Methyl-2-pentanone	14.01	100	157728	279.54 ug/L #	1
53) D8-Toluene	13.62	98	799852	49.21 ug/L	98
56) Toluene	13.68	92	483033	46.80 ug/L	99
57) T-1,3-Dichloropropene	14.07	75	301797	47.47 ug/L	98
58) Ethyl methacrylate	14.16	69	286559	47.06 ug/L	87
59) 1,1,2-Trichloroethane	14.26	97	183665	44.91 ug/L	88
60) 1,3-Dichloropropane	14.57	76	359890	46.04 ug/L	96
61) Tetrachloroethene	14.10	164	217058	46.48 ug/L	94
62) 2-Hexanone	14.87	43	1054762	281.36 ug/L	90
63) Dibromochloromethane	14.48	129	192584	47.70 ug/L	99
64) 1,2-Dibromoethane	14.77	107	193802	48.18 ug/L	97
65) Chlorobenzene	15.29	112	487370	47.21 ug/L	98
66) 1,1,1,2-Tetrachloroethane	15.33	131	163156	46.65 ug/L	98
67) Ethylbenzene	15.27	106	249504	47.53 ug/L	76
68) m-xylene & p-xylene	15.40	106	610372	94.34 ug/L	88
69) O-Xylene	15.83	106	306629	48.66 ug/L	93
70) Styrene	15.87	104	530564	49.36 ug/L	97
71) Bromoform	15.95	173	98319	42.79 ug/L	98
72) Isopropylbenzene	16.10	105	695446	49.25 ug/L	96
73) C-1,4-Dichloro-2-butene	16.41	53	88761	47.32 ug/L #	1
74) Bromofluorobenzene	16.39	95	378508	49.54 ug/L #	83
76) 1,1,2,2-Tetrachloroethane	16.53	83	250647	45.79 ug/L	97
77) Bromobenzene	16.53	156	169393	44.83 ug/L	98
78) 1,2,3-Trichloropropane	16.70	75	320093	46.07 ug/L #	45
79) T-1,4-Dichloro-2-Butene	16.70	53	83002	44.36 ug/L #	83
80) n-Propylbenzene	16.47	91	1021996	47.38 ug/L	89
82) 2-Chlorotoluene	16.67	91	703672	49.32 ug/L	94
83) 1,3,5-Trimethylbenzene	16.63	105	629408	47.38 ug/L	100
84) 4-Chlorotoluene	16.82	91	631258	46.02 ug/L	93
85) tert-Butylbenzene	16.95	119	487102	47.40 ug/L	95
86) Pentachloroethane	0.00	167		No Calib #	
87) 1,2,4-Trimethylbenzene	17.00	105	654993	47.52 ug/L	98
88) s-Butylbenzene	17.11	105	804002	47.94 ug/L	89
89) 1,3-Dichlorobenzene	17.39	146	321045	43.76 ug/L	98
90) p-Isopropyltoluene	17.22	119	585580	47.19 ug/L	96
91) 1,4-Dichlorobenzene	17.47	146	333565	45.12 ug/L	97
92) n-Butylbenzene	17.63	91	659330	47.56 ug/L	92
93) 1,2-Dichlorobenzene	17.90	146	315020	46.48 ug/L	97
94) DBCP	18.73	157	29851m	41.71 ug/L	85
95) 1,2,4-Trichlorobenzene	19.49	180	182405	47.14 ug/L	100
96) Hexachlorobutadiene	19.39	225	50432	44.70 ug/L	98
97) Naphthalene	19.92	128	448407	43.21 ug/L	97
98) 1,2,3-Trichlorobenzene	20.17	180	160705	43.65 ug/L	99

(#) = qualifier out of range (m) = manual integration

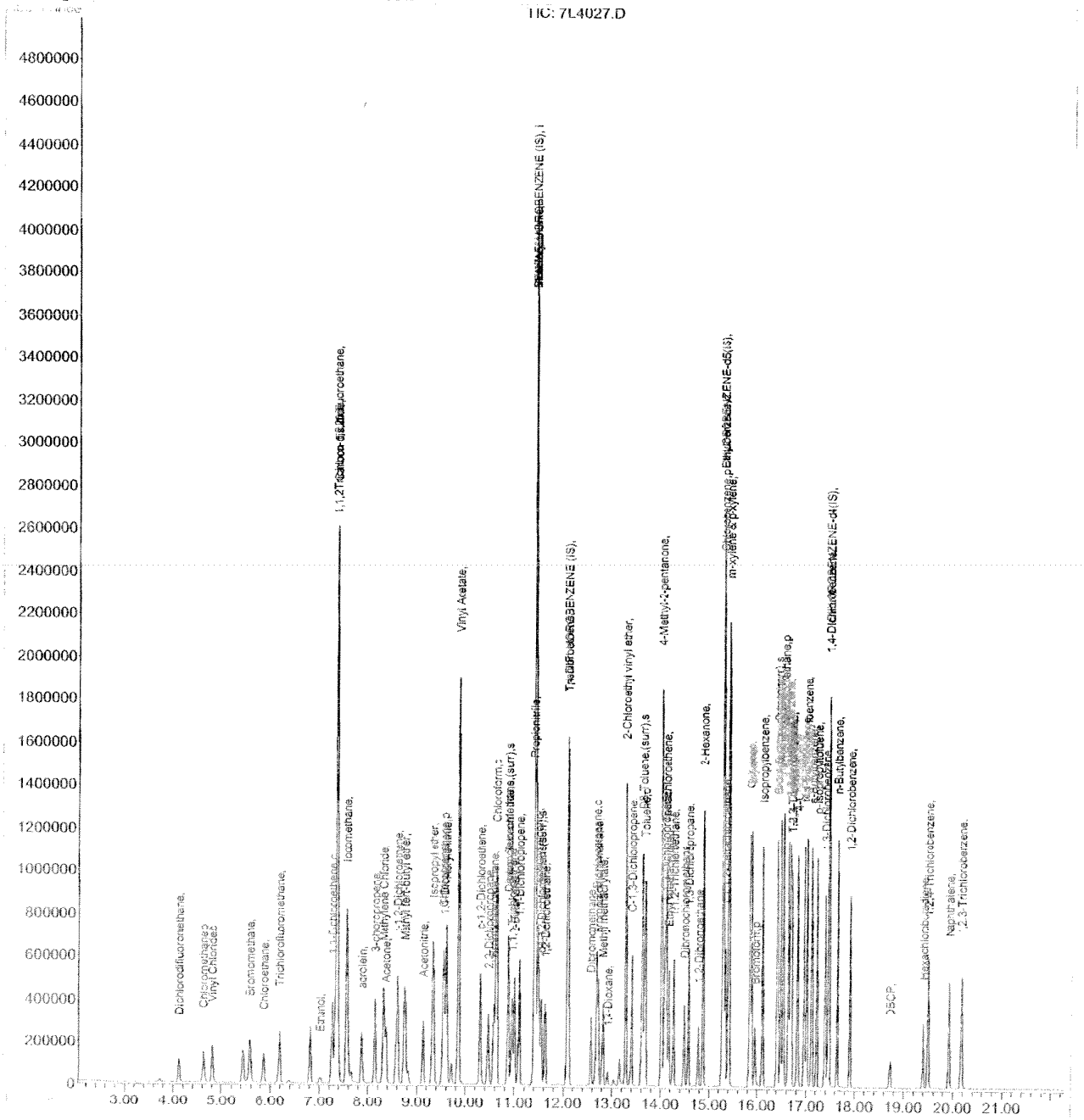
Quantitation Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4027.D
Acq On : 4 Dec 2006 23:18
Sample : ba00076-ccv2
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 8 13:07 2006

Vial: 27
Operator: jdb
Inst : JVGCMS1
Multiplr: 1.00

Quant Results File: 8260W6L1.RES

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration



VOLATILES QUALITY CONTROL RAW DATA

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4004.D Vial: 4
Acq On : 4 Dec 2006 11:31 Operator: jdb
Sample : 6L04023-BLK1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 9:57 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) PENTAFLUOROBENZENE (IS)	11.43	168	256251	50.00 ug/L	-0.01
38) 1,4-DIFLUOROBENZENE (IS)	12.09	114	596983	50.00 ug/L	-0.01
55) CHLOROBENZENE-d5(IS)	15.27	117	623605	50.00 ug/L	-0.01
81) 1,4-DICHLOROBENZENE-d4(IS)	17.45	152	280370	50.00 ug/L	-0.01
System Monitoring Compounds					
34) Dibromofluoromethane (surr	10.87	113	224600	52.93 ug/L	-0.01
Spiked Amount 50.000 Range 71 - 136			Recovery = 105.86%		
41) d4-1,2-Dichloroethane(surr	11.55	65	284766	49.98 µg/L	-0.01
Spiked Amount 50.000 Range 70 - 130			Recovery = 99.96%		
54) D8-Toluene (surr)	13.62	98	782783	50.22 ug/L	-0.01
Spiked Amount 50.000 Range 75 - 126			Recovery = 100.44%		
75) Bromofluorobenzene (surr)	16.40	95	344305m	49.14 ug/L	-0.01
Spiked Amount 50.000 Range 76 - 120			Recovery = 98.28%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.	
3) Chloromethane	0.00	50		N.D.	
4) Vinyl Chloride	0.00	62		N.D.	
5) Bromomethane	5.59	94	553	-5.04 ug/L	81
6) Chloroethane	0.00	64		N.D. d	
7) Trichlorofluoromethane	0.00	101		N.D.	
8) Ethanol	7.06	45	340	-59.16 ug/L	94
9) 1,2-Dichloro-1,1,2-triflur	0.00	117		No Calib #	
10) acrolein	0.00	56		N.D. d	
11) 1,1,2Trichloro-1,2,2triflu	0.00	151		N.D.	
12) 1,1-Dichloroethene	0.00	96		N.D.	
13) Acetone	8.39	43	4950	3.47 ug/L	99
14) Iodomethane	0.00	142		N.D. d	
15) Carbon disulfide	0.00	76		N.D.	
16) Acetonitrile	0.00	41		N.D. d	
17) 3-chloropropene	0.00	41		N.D.	
18) Methylene Chloride	8.32	84	3667	-0.72 ug/L #	51
19) Acrylonitrile	0.00	53		N.D.	
20) Methyl tert-butyl ether	0.00	73		N.D.	
21) t-1,2-Dichloroethene	0.00	96		N.D.	
22) 1,1-Dichloroethane	0.00	63		N.D.	
23) Vinyl Acetate	9.85	43	705	-20.57 ug/L #	76
24) Isopropyl ether	0.00	45		N.D.	
25) Chloroprene	0.00	88		N.D.	
26) 2-Butanone	0.00	72		N.D. d	
27) c-1,2-Dichloroethene	0.00	96		N.D.	
28) 2,2-Dichloropropane	0.00	77		N.D.	
29) Propionitrile	0.00	54		N.D. d	
30) Methacrylonitrile	0.00	41		N.D. d	
31) Bromochloromethane	0.00	128		N.D.	
32) Chloroform	0.00	83		N.D.	
33) Dibromofluoromethane	10.87	113	224600	52.93 ug/L	80
35) 1,1,1-Trichloroethane	0.00	97		N.D.	
36) 1,1-Dichloropropene	0.00	75		N.D.	
37) Isobutyl alcohol	0.00	43		N.D. d	
39) Carbon Tetrachloride	0.00	117		N.D.	
40) d4-1,2-Dichloroethane	11.55	65	284766	49.98 µg/L #	80
42) 1,2-Dichloroethane	0.00	62		N.D.	
43) Benzene	0.00	78		N.D.	
44) Trichloroethene	0.00	130		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4004.D Vial: 4
Acq On : 4 Dec 2006 11:31 Operator: jdb
Sample : 6L04023-BLK1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 9:57 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

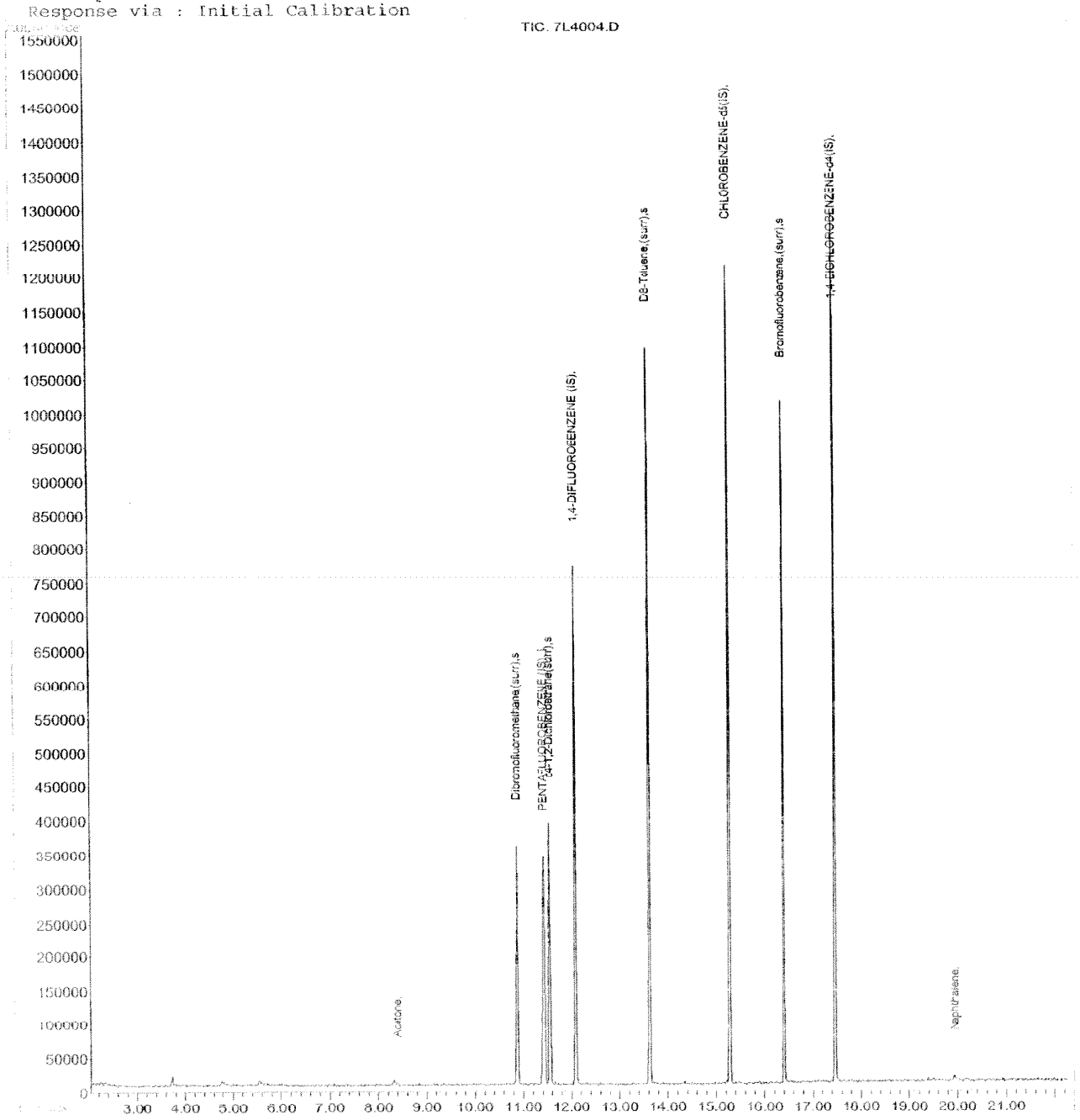
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) 1,2-Dichloropropane	0.00	63		N.D.	
46) Methyl methacrylate	0.00	69		N.D.	
47) 1,4-Dioxane	0.00	88		N.D.	
48) Dibromomethane	0.00	93		N.D.	
49) Bromodichloromethane	0.00	83		N.D.	
50) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
51) C-1,3-Dichloropropene	0.00	75		N.D.	
52) 4-Methyl-2-pentanone	0.00	100		N.D. d	
53) D8-Toluene	13.62	98	782783	50.22 ug/L	100
56) Toluene	0.00	92		N.D.	
57) T-1,3-Dichloropropene	0.00	75		N.D.	
58) Ethyl methacrylate	0.00	69		N.D.	
59) 1,1,2-Trichloroethane	0.00	97		N.D.	
60) 1,3-Dichloropropane	0.00	76		N.D.	
61) Tetrachloroethene	0.00	164		N.D. d	
62) 2-Hexanone	0.00	43		N.D. d	
63) Dibromochloromethane	0.00	129		N.D.	
64) 1,2-Dibromoethane	0.00	107		N.D.	
65) Chlorobenzene	0.00	112		N.D.	
66) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
67) Ethylbenzene	0.00	106		N.D.	
68) m-xylene & p-xylene	0.00	106		N.D.	
69) O-Xylene	0.00	106		N.D.	
70) Styrene	0.00	104		N.D.	
71) Bromoform	0.00	173		N.D. d	
72) Isopropylbenzene	0.00	105		N.D.	
73) C-1,4-Dichloro-2-butene	16.46	53	215	-2.39 ug/L #	1
74) Bromofluorobenzene	16.40	95	344305m	49.14 ug/L	97
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
77) Bromobenzene	0.00	156		N.D.	
78) 1,2,3-Trichloropropane	0.00	75		N.D.	
79) T-1,4-Dichloro-2-Butene	0.00	53		N.D. d	
80) n-Propylbenzene	0.00	91		N.D.	
82) 2-Chlorotoluene	0.00	91		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
84) 4-Chlorotoluene	0.00	91		N.D.	
85) tert-Butylbenzene	0.00	119		N.D.	
86) Pentachloroethane	0.00	167		N.D.	
87) 1,2,4-Trimethylbenzene	0.00	105		N.D.	
88) s-Butylbenzene	0.00	105		N.D.	
89) 1,3-Dichlorobenzene	0.00	146		N.D.	
90) p-Isopropyltoluene	0.00	119		N.D.	
91) 1,4-Dichlorobenzene	0.00	146		N.D.	
92) n-Butylbenzene	0.00	91		N.D.	
93) 1,2-Dichlorobenzene	0.00	146		N.D.	
94) DBCP	0.00	157		N.D. d	
95) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
96) Hexachlorobutadiene	0.00	225		N.D. d	
97) Naphthalene	19.93	128	4191	0.46 ug/L	91
98) 1,2,3-Trichlorobenzene	0.00	180		N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4004.D Vial: 4
Acq On : 4 Dec 2006 11:31 Operator: jdb
Sample : 6L04023-BLK1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 9:57 2006 Quant Results File: 8260W6L1.RES

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4004.D Vial: 4
Acq On : 4 Dec 2006 11:31 Operator: jdb
Sample : 6L04023-BLK1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

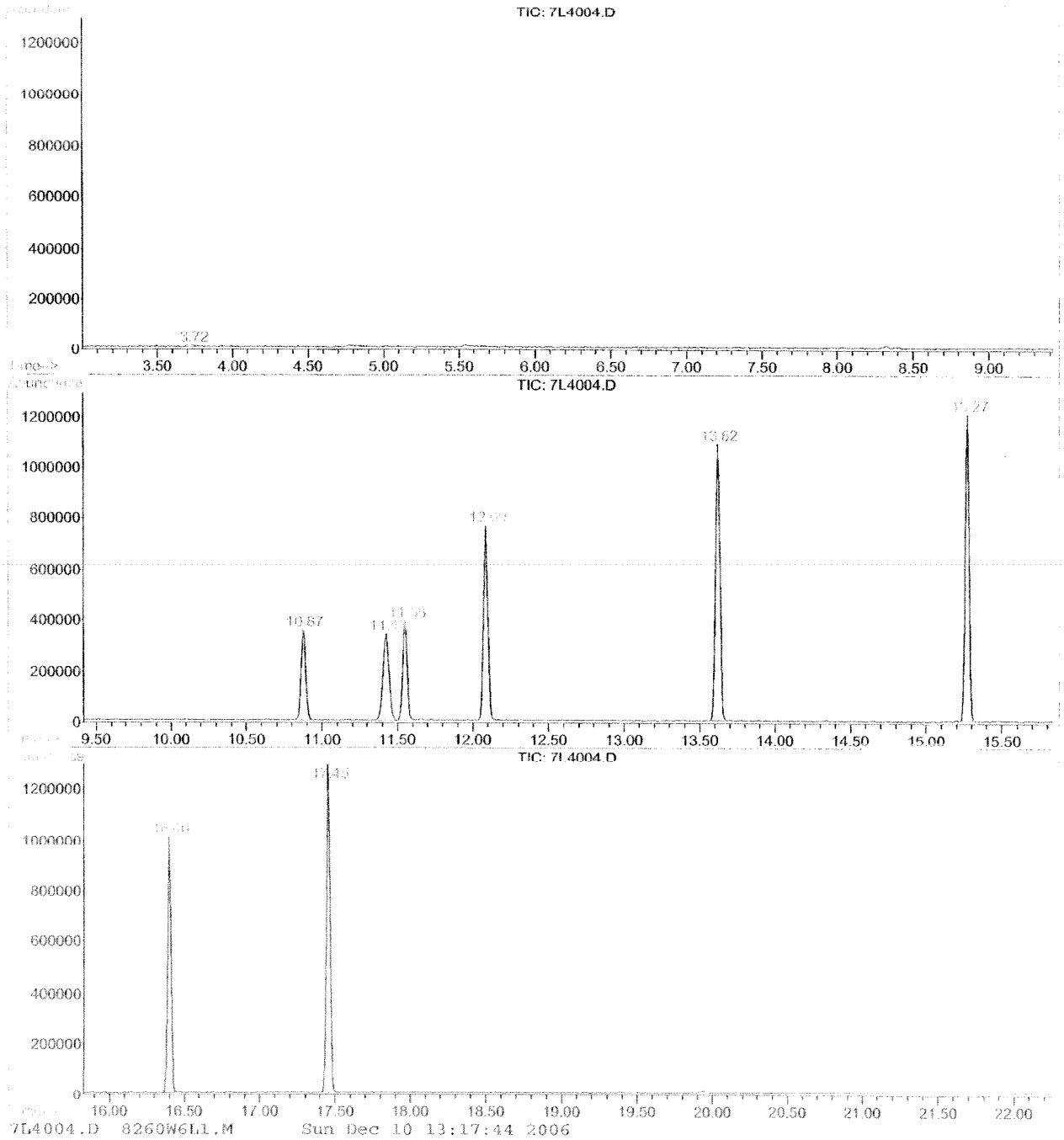
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.724	167	172	176	rBV	14735	35712	1.63%	0.295%
2	10.874	891	897	904	rVB	352531	734464	33.45%	6.076%
3	11.426	942	953	960	rBV	338105	971949	44.27%	8.040%
4	11.555	960	966	974	rVB	385846	812210	36.99%	6.719%
5	12.087	1014	1020	1029	rBV	764036	1548256	70.52%	12.808%
6	13.616	1170	1175	1181	rVB	1085615	2195553	100.00%	18.163%
7	15.273	1338	1343	1347	rBV	1207017	2121757	96.64%	17.552%
8	16.397	1453	1457	1461	rBV	1005757	1549938	70.59%	12.822%
9	17.452	1560	1564	1573	rBV	1283636	2118351	96.48%	17.524%

Sum of corrected areas: 12088190

7L4004.D 8260W6L1.M Sun Dec 10 13:17:44 2006

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\20067L4\7L4004.D
Operator : jdb
Acquired : 4 Dec 2006 11:31 using AcqMethod 8260W6L1
Instrument : JVGCMS1
Sample Name: 6L04023-BLK1
Misc Info :
Vial Number: 4
Quant File :8260W6L1.RES (RTE Integrator)



7L4004.D 8260W6L1.M Sun Dec 10 13:17:44 2006

Tentatively Identified Compound (LSC) summary

Operator ID: jdb Date Acquired: 4 Dec 2006 11:31
Data File: C:\HPCHEM\1\DATA\20067L4\7L4004.D
Name: 6L04023-BLK1
Misc:
Method: C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title: VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library Searched: C:\DATABASE\NBS75K.L

TIC	Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

7L4004.D 8260W6L1.M Sun Dec 10 13:17:44 2006

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4030.D Vial: 30
Acq On : 5 Dec 2006 00:50 Operator: jdb
Sample : 6L04023-BLK2 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:26 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) PENTAFLUOROBENZENE (IS)	11.43	168	284605	50.00 ug/L	-0.01
38) 1,4-DIFLUOROBENZENE (IS)	12.09	114	644516	50.00 ug/L	-0.01
55) CHLOROBENZENE-d5(IS)	15.27	117	676654	50.00 ug/L	-0.01
81) 1,4-DICHLOROBENZENE-d4(IS)	17.45	152	309883	50.00 ug/L	-0.01
System Monitoring Compounds					
34) Dibromofluoromethane (surr	10.87	113	226400	48.04 ug/L	-0.01
Spiked Amount 50.000 Range 71 - 136			Recovery = 96.08%		
41) d4-1,2-Dichloroethane(surr	11.56	65	281632	45.79 µg/L	-0.01
Spiked Amount 50.000 Range 70 - 130			Recovery = 91.58%		
54) D8-Toluene (surr)	13.62	98	839694	49.90 ug/L	-0.01
Spiked Amount 50.000 Range 75 - 126			Recovery = 99.80%		
75) Bromofluorobenzene (surr)	16.40	95	373771m	49.17 ug/L	-0.01
Spiked Amount 50.000 Range 76 - 120			Recovery = 98.34%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.	
3) Chloromethane	0.00	50		N.D.	
4) Vinyl Chloride	0.00	62		N.D.	
5) Bromomethane	5.49	94	310	-5.16 ug/L	83
6) Chloroethane	0.00	64		N.D.	
7) Trichlorofluoromethane	0.00	101		N.D.	
8) Ethanol	7.08	45	395	-58.75 ug/L	72
9) 1,2-Dichloro-1,1,2-triflur	0.00	117		No Calib #	
10) acrolein	0.00	56		N.D. d	
11) 1,1,2Trichloro-1,2,2triflu	0.00	151		N.D.	
12) 1,1-Dichloroethene	0.00	96		N.D.	
13) Acetone	0.00	43		N.D. d	
14) Iodomethane	0.00	142		N.D. d	
15) Carbon disulfide	7.36	76	3294	0.21 ug/L	74
16) Acetonitrile	0.00	41		N.D. d	
17) 3-chloropropene	0.00	41		N.D.	
18) Methylene Chloride	8.32	84	2393	-1.07 ug/L #	50
19) Acrylonitrile	0.00	53		N.D.	
20) Methyl tert-butyl ether	0.00	73		N.D.	
21) t-1,2-Dichloroethene	0.00	96		N.D.	
22) 1,1-Dichloroethane	0.00	63		N.D.	
23) Vinyl Acetate	9.87	43	299	-20.64 ug/L #	6
24) Isopropyl ether	0.00	45		N.D.	
25) Chloroprene	0.00	88		N.D.	
26) 2-Butanone	0.00	72		N.D. d	
27) c-1,2-Dichloroethene	0.00	96		N.D.	
28) 2,2-Dichloropropane	0.00	77		N.D.	
29) Propionitrile	0.00	54		N.D. d	
30) Methacrylonitrile	0.00	41		N.D.	
31) Bromochloromethane	0.00	128		N.D.	
32) Chloroform	0.00	83		N.D.	
33) Dibromofluoromethane	10.87	113	226400	48.04 ug/L	81
35) 1,1,1-Trichloroethane	0.00	97		N.D.	
36) 1,1-Dichloropropene	0.00	75		N.D.	
37) Isobutyl alcohol	0.00	43		N.D. d	
39) Carbon Tetrachloride	0.00	117		N.D. d	
40) d4-1,2-Dichloroethane	11.56	65	281632	45.79 µg/L #	80
42) 1,2-Dichloroethane	0.00	62		N.D.	
43) Benzene	0.00	78		N.D.	
44) Trichloroethene	0.00	130		N.D.	

(#) = qualifier out of range (m) = manual integration
7L4030.D 8260W6L1.M Sun Dec 10 14:26:49 2006

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4030.D Vial: 30
Acq On : 5 Dec 2006 00:50 Operator: jdb
Sample : 6L04023-BLK2 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:26 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

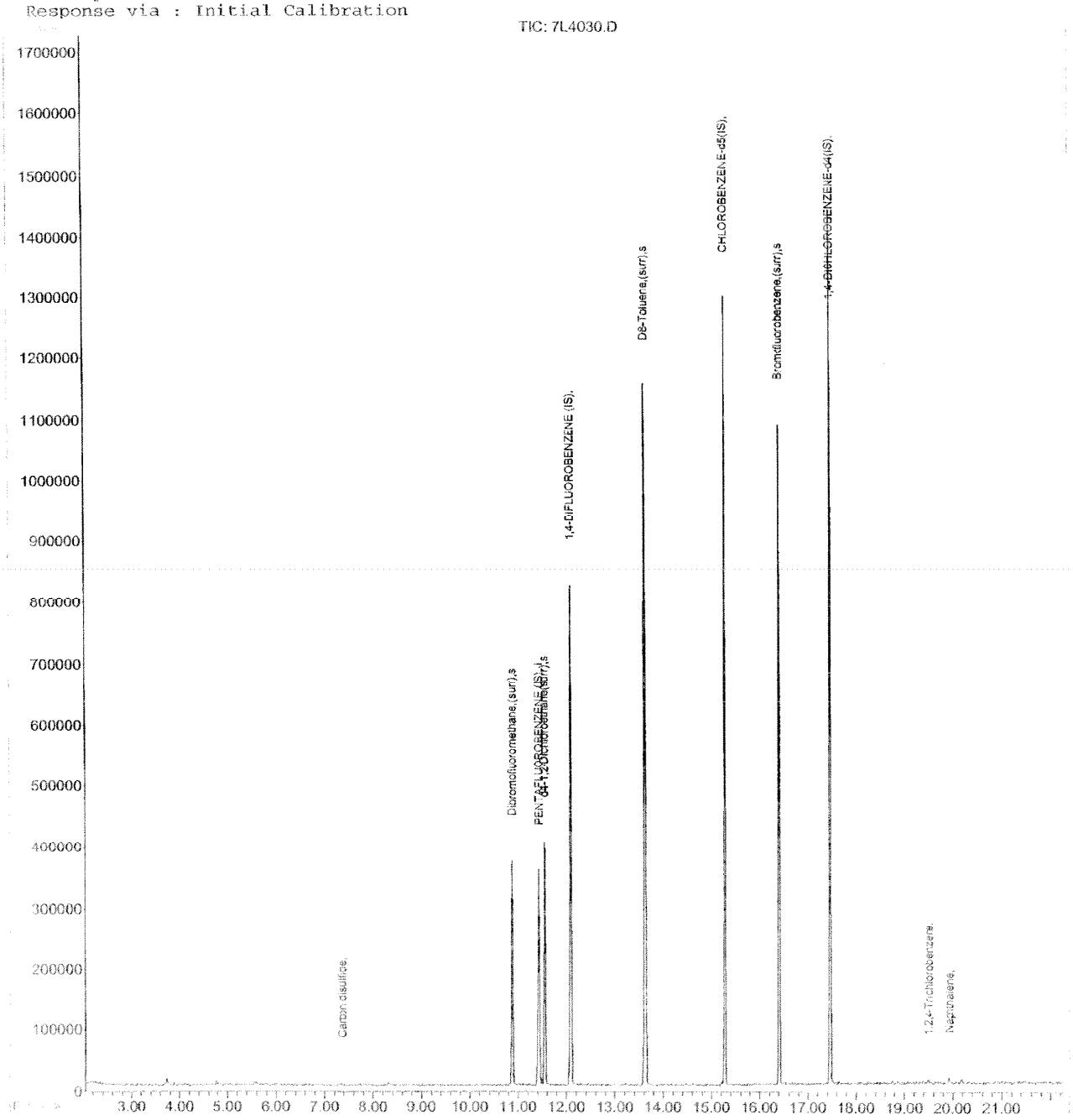
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) 1,2-Dichloropropane	0.00	63		N.D.	
46) Methyl methacrylate	0.00	69		N.D.	
47) 1,4-Dioxane	12.87	88	115	-3.31 ug/L #	1
48) Dibromomethane	0.00	93		N.D.	
49) Bromodichloromethane	0.00	83		N.D.	
50) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
51) C-1,3-Dichloropropene	0.00	75		N.D.	
52) 4-Methyl-2-pentanone	0.00	100		N.D. d	
53) D8-Toluene	13.62	98	839694	49.90 ug/L	99
56) Toluene	0.00	92		N.D.	
57) T-1,3-Dichloropropene	0.00	75		N.D.	
58) Ethyl methacrylate	0.00	69		N.D.	
59) 1,1,2-Trichloroethane	0.00	97		N.D.	
60) 1,3-Dichloropropane	0.00	76		N.D.	
61) Tetrachloroethene	0.00	164		N.D. d	
62) 2-Hexanone	0.00	43		N.D. d	
63) Dibromochloromethane	0.00	129		N.D.	
64) 1,2-Dibromoethane	0.00	107		N.D.	
65) Chlorobenzene	0.00	112		N.D.	
66) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
67) Ethylbenzene	0.00	106		N.D.	
68) m-xylene & p-xylene	0.00	106		N.D.	
69) O-Xylene	0.00	106		N.D.	
70) Styrene	0.00	104		N.D.	
71) Bromoform	0.00	173		N.D. d	
72) Isopropylbenzene	0.00	105		N.D.	
73) C-1,4-Dichloro-2-butene	16.40	53	375	-2.31 ug/L #	1
74) Bromofluorobenzene	16.40	95	373771m	49.17 ug/L	91
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
77) Bromobenzene	0.00	156		N.D.	
78) 1,2,3-Trichloropropane	0.00	75		N.D.	
79) T-1,4-Dichloro-2-Butene	0.00	53		N.D.	
80) n-Propylbenzene	0.00	91		N.D.	
82) 2-Chlorotoluene	0.00	91		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
84) 4-Chlorotoluene	0.00	91		N.D.	
85) tert-Butylbenzene	0.00	119		N.D.	
86) Pentachloroethane	0.00	167		No Calib #	
87) 1,2,4-Trimethylbenzene	0.00	105		N.D.	
88) s-Butylbenzene	0.00	105		N.D.	
89) 1,3-Dichlorobenzene	0.00	146		N.D.	
90) p-Isopropyltoluene	0.00	119		N.D.	
91) 1,4-Dichlorobenzene	0.00	146		N.D.	
92) n-Butylbenzene	0.00	91		N.D.	
93) 1,2-Dichlorobenzene	0.00	146		N.D.	
94) DBCP	0.00	157		N.D. d	
95) 1,2,4-Trichlorobenzene	19.49	180	1143	0.30 ug/L #	60
96) Hexachlorobutadiene	0.00	225		N.D. d	
97) Naphthalene	19.92	128	5815	0.57 ug/L	92
98) 1,2,3-Trichlorobenzene	0.00	180		N.D. d	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4030.D Vial: 30
Acq On : 5 Dec 2006 00:50 Operator: jdb
Sample : 6L04023-BLK2 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:26 2006 Quant Results File: 8260W6L1.RES

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

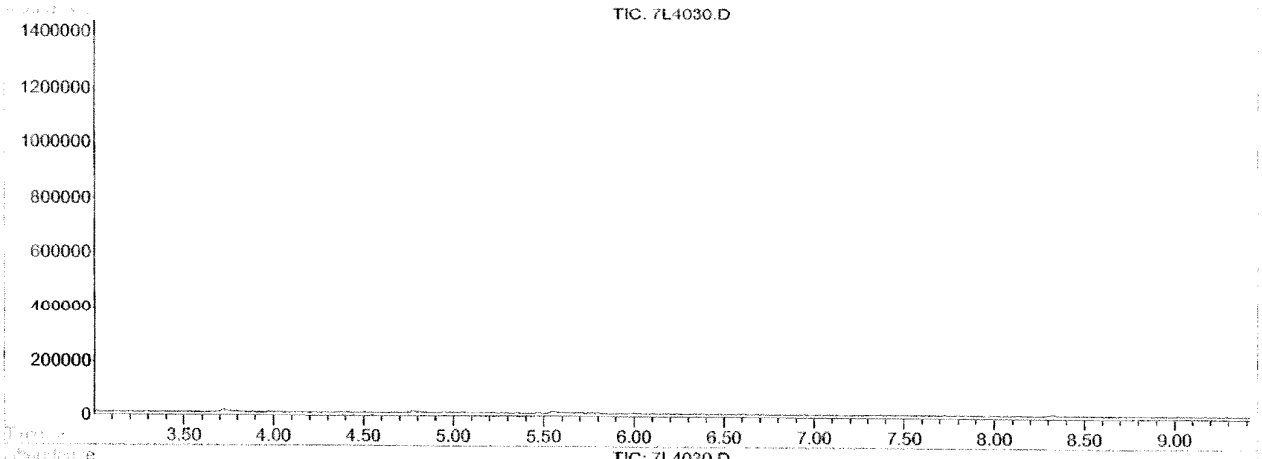
Operator ID: jdb Date Acquired: 5 Dec 2006 00:50
Data File: C:\HPCHEM\1\DATA\20067L4\7L4030.D
Name: 6L04023-BLK2
Misc:
Method: C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title: VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library Searched: C:\DATABASE\NBS75K.L

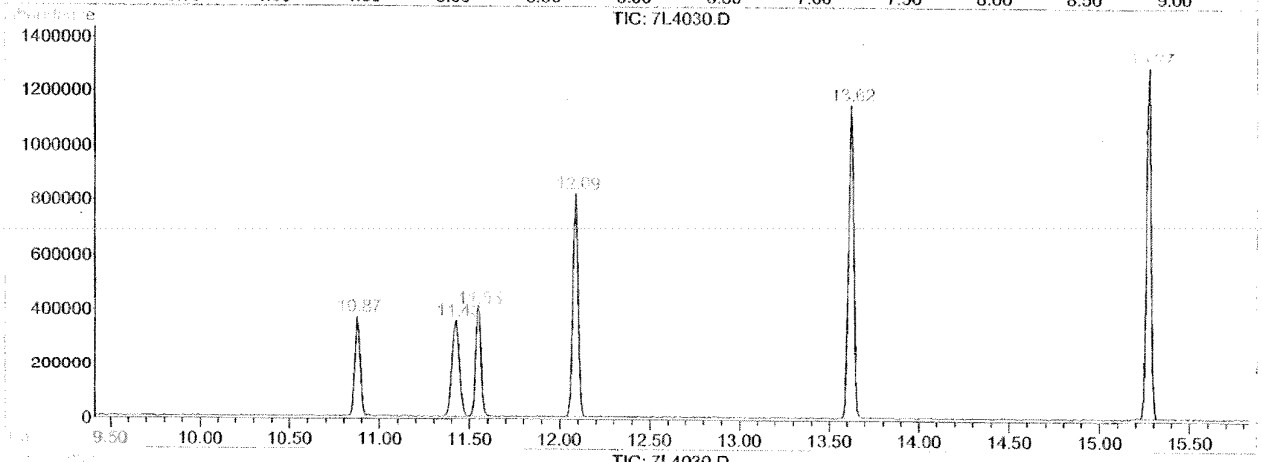
TIC	Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

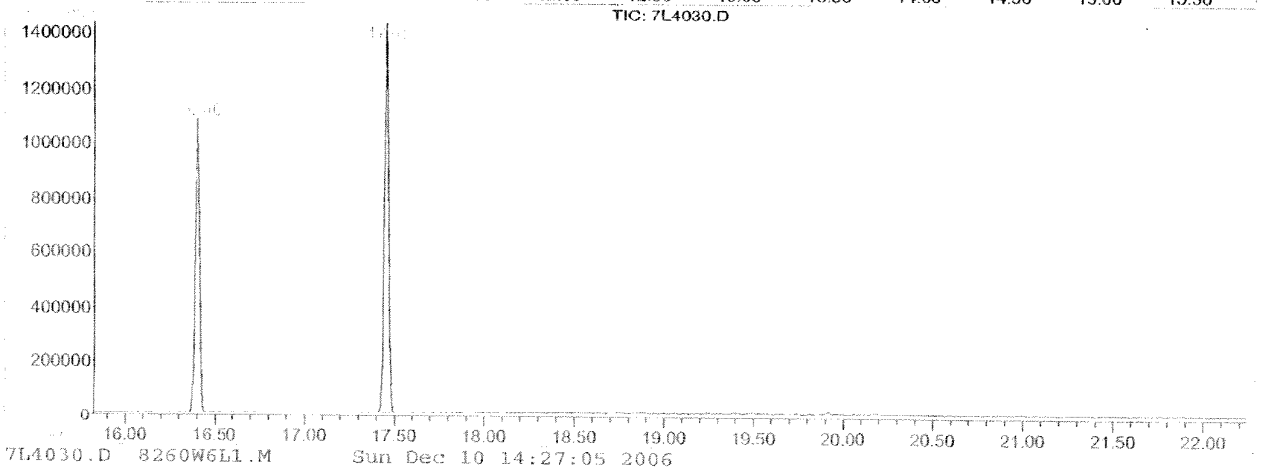
7L4030.D 8260W6L1.M Sun Dec 10 14:27:05 2006

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\2006 7L4\7L4030.D
Operator : jdb
Acquired : 5 Dec 2006 00:50 using AcqMethod 8260W6L1
Instrument : JVGCMS1
Sample Name: 6L04023-BLK2
Misc Info :
Vial Number: 30
Quant File :8260W6L1.RES (RTE Integrator)







7L4030.D 8260W6L1.M Sun Dec 10 14:27:05 2006

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4030.D Vial: 30
Acq On : 5 Dec 2006 00:50 Operator: jdb
Sample : 6L04023-BLK2 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	10.875	892	897	902	rBV	366627	745086	32.02%	5.842%
2	11.427	944	953	961	rBV	354370	1024059	44.01%	8.030%
3	11.545	961	965	974	rVB	397023	829536	35.65%	6.505%
4	12.088	1014	1020	1027	rVB	817219	1631049	70.09%	12.789%
5	13.616	1170	1175	1184	rVB	1146628	2326928	100.00%	18.246%
6	15.273	1338	1343	1348	rBV	1288330	2262401	97.23%	17.740%
7	16.397	1453	1457	1462	rBV	1078825	1673787	71.93%	13.125%
8	17.453	1560	1564	1569	rBV	1425073	2260270	97.14%	17.723%

Sum of corrected areas: 12753116

7L4030.D 8260W6L1.M Sun Dec 10 14:27:05 2006

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4005.D Vial: 5
Acq On : 4 Dec 2006 12:02 Operator: jdb
Sample : 6L04023-BS1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 4 13:20 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) PENTAFLUOROBENZENE (IS)	11.43	168	257715	50.00 ug/L	-0.01
38) 1,4-DIFLUOROBENZENE (IS)	12.09	114	578599	50.00 ug/L	-0.01
55) CHLOROBENZENE-d5(IS)	15.27	117	633418	50.00 ug/L	-0.01
81) 1,4-DICHLOROBENZENE-d4(IS)	17.46	152	292670	50.00 ug/L	0.00
System Monitoring Compounds					
34) Dibromofluoromethane (surr	10.87	113	226144	52.99 ug/L	-0.01
Spiked Amount 50.000 Range 71 - 136 Recovery = 105.98%					
41) d4-1,2-Dichloroethane(surr	11.55	65	276166	50.01 µg/L	-0.01
Spiked Amount 50.000 Range 70 - 130 Recovery = 100.02%					
54) D8-Toluene (surr)	13.63	98	786972	52.09 ug/L	0.00
Spiked Amount 50.000 Range 75 - 126 Recovery = 104.18%					
75) Bromofluorobenzene (surr)	16.40	95	352259	49.50 ug/L	-0.01
Spiked Amount 50.000 Range 76 - 120 Recovery = 99.00%					

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.12	85	84395	33.48 ug/L	97
3) Chloromethane	4.62	50	130645	26.25 ug/L	95
4) Vinyl Chloride	4.81	62	104125	24.06 ug/L	96
5) Bromomethane	5.58	94	56006	19.79 ug/L	92
6) Chloroethane	5.87	64	70153	22.56 ug/L	91
7) Trichlorofluoromethane	6.19	101	112988	23.76 ug/L	99
8) Ethanol	7.06	45	4022m	37.20 ug/L	100
9) 1,2-Dichloro-1,1,2-tritlur	0.00	117		N.D. d	
10) acrolein	7.88	56	79748	75.43 ug/L	98
11) 1,1,2Trichloro-1,2,2triflu	7.34	151	33244	17.02 ug/L #	40
12) 1,1-Dichloroethene	7.26	96	64286	18.18 ug/L	88
13) Acetone	8.38	43	64097	44.62 ug/L	98
14) Iodomethane	7.57	142	63771	17.67 ug/L	91
15) Carbon disulfide	7.36	76	267022	18.43 ug/L	95
16) Acetonitrile	9.14	41	15350	21.57 ug/L	97
17) 3-chloropropene	8.14	41	132965	21.31 ug/L #	95
18) Methylene Chloride	8.32	84	91130	18.95 ug/L #	74
19) Acrylonitrile	9.61	53	32884	12.86 ug/L	97
20) Methyl tert-butyl ether	8.75	73	211718	19.73 ug/L	90
21) t-1,2-Dichloroethene	8.61	96	75466	18.68 ug/L #	89
22) 1,1-Dichloroethane	9.56	63	159843	19.83 ug/L	92
23) Vinyl Acetate	9.86	43	259931	19.52 ug/L	93
24) Isopropyl ether	9.34	45	337413m	19.88 ug/L	92
25) Chloroprene	9.54	88	53008	17.19 ug/L	95
26) 2-Butanone	11.01	72	20157	44.50 ug/L #	34
27) c-1,2-Dichloroethene	10.30	96	76787	17.80 ug/L	92
28) 2,2-Dichloropropane	10.47	77	106359	23.17 ug/L	100
29) Propionitrile	11.39	54	12817	20.65 ug/L #	1
30) Methacrylonitrile	11.43	41	60560	18.66 ug/L	88
31) Bromochloromethane	10.58	128	31437	17.69 ug/L	88
32) Chloroform	10.65	83	145816	18.99 ug/L	96
33) Dibromofluoromethane	10.87	113	226144	52.99 ug/L	77
35) 1,1,1-Trichloroethane	10.95	97	103776	18.51 ug/L	89
36) 1,1-Dichloropropene	11.10	75	102706	18.88 ug/L	95
37) Isobutyl alcohol	11.49	43	96081	266.27 ug/L #	49
39) Carbon Tetrachloride	10.87	117	87792	18.99 ug/L	95
40) d4-1,2-Dichloroethane	11.55	65	276166	50.01 µg/L #	79
42) 1,2-Dichloroethane	11.63	62	117946	18.82 ug/L #	14
43) Benzene	11.42	78	303185	19.30 ug/L	99
44) Trichloroethene	12.09	130	61421	17.20 ug/L	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4005.D Vial: 5
Acq On : 4 Dec 2006 12:02 Operator: jdb
Sample : 6L04023-BS1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 4 13:20 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) 1,2-Dichloropropane	12.68	63	87479	19.27 ug/L	87
46) Methyl methacrylate	12.82	69	53647	19.80 ug/L	79
47) 1,4-Dioxane	12.93	88	1048	21.55 ug/L	93
48) Dibromomethane	12.57	93	52195	18.35 ug/L #	74
49) Bromodichloromethane	12.72	83	105269	16.93 ug/L	97
50) 2-Chloroethyl vinyl ether	13.28	63	20880	36.07 ug/L	90
51) C-1,3-Dichloropropene	13.41	75	134995	20.56 ug/L	98
52) 4-Methyl-2-pentanone	14.02	100	21786	41.54 ug/L #	1
53) D8-Toluene	13.63	98	786972	52.09 ug/L	100
56) Toluene	13.67	92	163560	17.01 ug/L	96
57) T-1,3-Dichloropropene	14.08	75	120584	20.36 ug/L	100
58) Ethyl methacrylate	14.17	69	89708	15.82 ug/L	86
59) 1,1,2-Trichloroethane	14.27	97	63522	16.68 ug/L	88
60) 1,3-Dichloropropane	14.57	76	122471	16.82 ug/L	97
61) Tetrachloroethene	14.11	164	39896	9.71 ug/L	87
62) 2-Hexanone	14.88	43	149798	42.90 ug/L	88
63) Dibromochloromethane	14.48	129	66009	17.55 ug/L	98
64) 1,2-Dibromoethane	14.78	107	67915	18.13 ug/L	98
65) Chlorobenzene	15.29	112	177679	18.48 ug/L	94
66) 1,1,1,2-Tetrachloroethane	15.33	131	56812	17.44 ug/L	98
67) Ethylbenzene	15.27	106	80622	16.49 ug/L #	65
68) m-xylene & p-xylene	15.40	106	210012	34.85 ug/L	88
69) O-Xylene	15.83	106	101335	17.26 ug/L	91
70) Styrene	15.87	104	165651m	16.55 ug/L	99
71) Bromoform	15.95	173	33150	16.21 ug/L	99
72) Isopropylbenzene	16.10	105	253733	19.29 ug/L	94
73) C-1,4-Dichloro-2-butene	16.42	53	28790	14.83 ug/L #	1
74) Bromofluorobenzene	16.40	95	352259	49.50 ug/L #	82
76) 1,1,2,2-Tetrachloroethane	16.53	83	96893	19.00 ug/L	96
77) Bromobenzene	16.53	156	55875	15.88 ug/L	98
78) 1,2,3-Trichloropropane	16.69	75	115132	17.79 ug/L #	42
79) T-1,4-Dichloro-2-Butene	16.69	53	31878	18.29 ug/L #	76
80) n-Propylbenzene	16.48	91	364200	18.13 ug/L	87
82) 2-Chlorotoluene	16.67	91	232622	17.66 ug/L	96
83) 1,3,5-Trimethylbenzene	16.63	105	207425	16.91 ug/L	98
84) 4-Chlorotoluene	16.82	91	221902	17.52 ug/L	92
85) tert-Butylbenzene	16.96	119	169192	17.83 ug/L	97
86) Pentachloroethane	0.00	167		No Calib	
87) 1,2,4-Trimethylbenzene	17.01	105	222737	17.50 ug/L	100
88) s-Butylbenzene	17.12	105	277746	17.94 ug/L	87
89) 1,3-Dichlorobenzene	17.39	146	116053	17.13 ug/L	93
90) p-Isopropyltoluene	17.22	119	202995	17.72 ug/L	96
91) 1,4-Dichlorobenzene	17.47	146	122270	17.91 ug/L	94
92) n-Butylbenzene	17.64	91	227152	17.75 ug/L	93
93) 1,2-Dichlorobenzene	17.91	146	113163	18.08 ug/L	97
94) DBCP	18.72	157	10389	17.33 ug/L #	79
95) 1,2,4-Trichlorobenzene	19.49	180	60078	16.82 ug/L	99
96) Hexachlorobutadiene	19.39	225	15992	16.35 ug/L	93
97) Naphthalene	19.93	128	154277	16.10 ug/L	100
98) 1,2,3-Trichlorobenzene	20.17	180	55954	16.46 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

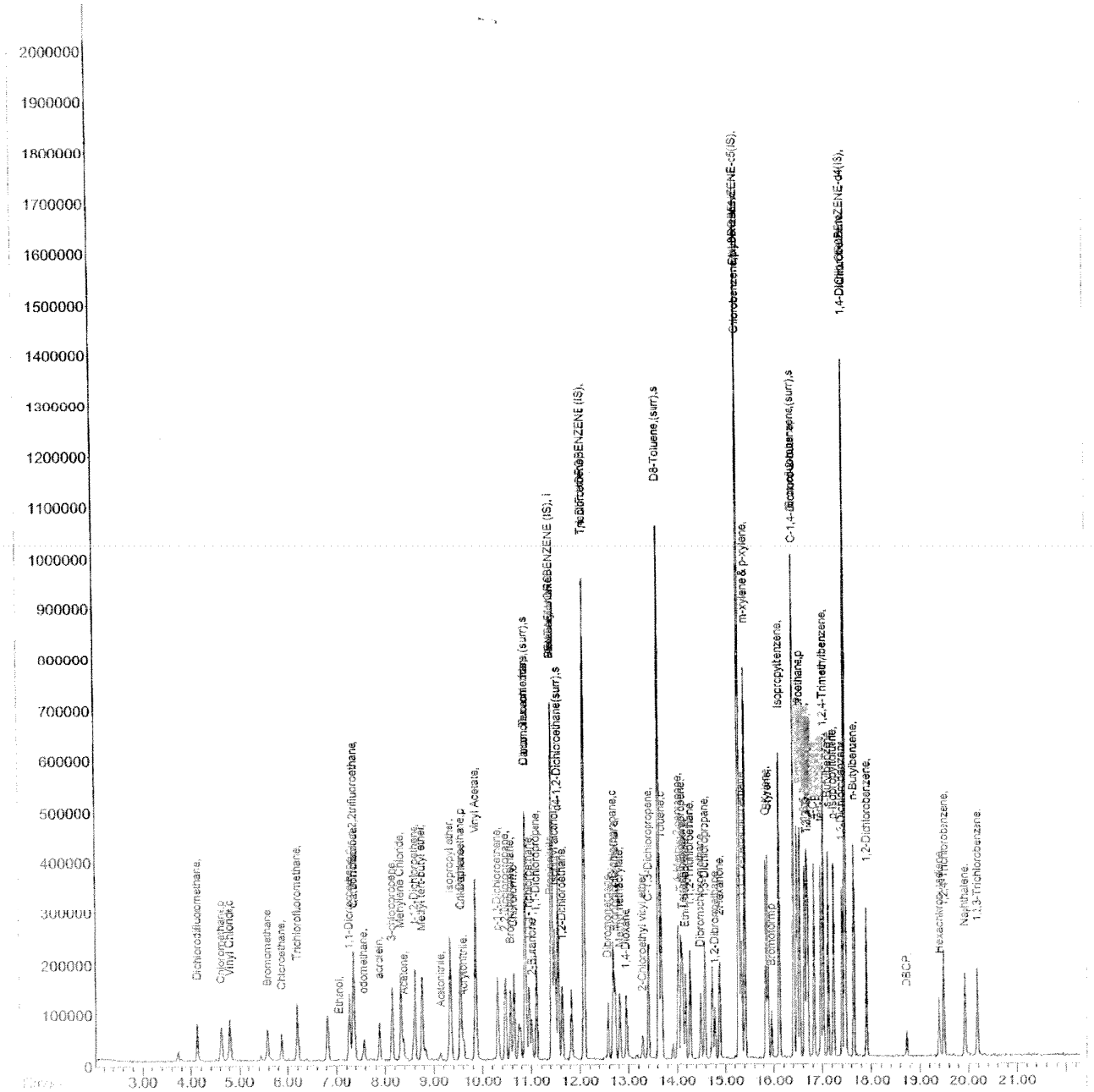
Data File : C:\HPCHEM\1\DATA\20067L4\7L4005.D
Acq On : 4 Dec 2006 12:02
Sample : 6L04023-BS1
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 4 13:20 2006

Vial: 5
Operator: jdb
Inst : JVGCMS1
Multiplr: 1.00

Quant Results File: 8260W6L1.RES

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration

TIC: 7L4005.D



7L4005.D 8260W6L1.M Sun Dec 10 13:24:47 2006 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4006.D Vial: 6
Acq On : 4 Dec 2006 12:33 Operator: jdb
Sample : 6L04023-MS1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 4 12:55 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) PENTAFLUOROBENZENE (IS)	11.43	168	255366	50.00	ug/L	0.00
38) 1,4-DIFLUOROBENZENE (IS)	12.09	114	583085	50.00	ug/L	0.00
55) CHLOROBENZENE-d5(IS)	15.28	117	622356	50.00	ug/L	0.00
81) 1,4-DICHLOROBENZENE-d4(IS)	17.46	152	287039	50.00	ug/L	0.00
System Monitoring Compounds						
34) Dibromofluoromethane (surr	10.88	113	214972	50.84	ug/L	0.00
Spiked Amount 50.000 Range 71 - 136 Recovery = 101.68%						
41) d4-1,2-Dichloroethane(surr	11.55	65	270939	48.69	µg/L	-0.02
Spiked Amount 50.000 Range 70 - 130 Recovery = 97.38%						
54) D8-Toluene (surr)	13.62	98	775617	50.95	ug/L	0.00
Spiked Amount 50.000 Range 75 - 126 Recovery = 101.90%						
75) Bromofluorobenzene (surr)	16.40	95	352761	50.45	ug/L	0.00
Spiked Amount 50.000 Range 76 - 120 Recovery = 100.90%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.11	85	87807	35.15	ug/L	97
3) Chloromethane	4.63	50	135554	27.49	ug/L	97
4) Vinyl Chloride	4.81	62	108051	25.20	ug/L	96
5) Bromomethane	5.59	94	58520	21.15	ug/L	93
6) Chloroethane	5.88	64	69875	22.68	ug/L	97
7) Trichlorofluoromethane	6.19	101	114715	24.34	ug/L	98
8) Ethanol	7.04	45	4988	63.70	ug/L	91
9) 1,2-Dichloro-1,1,2-triflur	0.00	117		No Calib	#	
10) acrolein	7.88	56	72555	69.25	ug/L	98
11) 1,1,2Trichloro-1,2,2triflu	7.34	151	39174	20.24	ug/L #	58
12) 1,1-Dichloroethene	7.27	96	63249	18.06	ug/L #	82
13) Acetone	8.37	43	65294	45.87	ug/L	88
14) Iodomethane	7.56	142	72419	19.61	ug/L	86
15) Carbon disulfide	7.36	76	265792	18.51	ug/L	95
16) Acetonitrile	9.14	41	16768	23.77	ug/L	84
17) 3-chloropropene	8.15	41	132811	21.49	ug/L #	92
18) Methylene Chloride	8.32	84	91104	19.13	ug/L #	68
19) Acrylonitrile	9.61	53	33322	13.15	ug/L	91
20) Methyl tert-butyl ether	8.76	73	209741	19.72	ug/L	92
21) t-1,2-Dichloroethene	8.61	96	75832	18.95	ug/L #	84
22) 1,1-Dichloroethane	9.56	63	158414	19.84	ug/L	94
23) Vinyl Acetate	9.86	43	224600	14.37	ug/L	94
24) Isopropyl ether	9.34	45	350811	20.86	ug/L #	77
25) Chloroprene	9.54	88	50977	16.68	ug/L	89
26) 2-Butanone	11.01	72	19976	44.51	ug/L #	31
27) c-1,2-Dichloroethene	10.31	96	78361	18.33	ug/L	93
28) 2,2-Dichloropropane	10.47	77	108184	23.78	ug/L	100
29) Propionitrile	11.39	54	11317	18.40	ug/L #	1
30) Methacrylonitrile	11.42	41	62295	19.37	ug/L	92
31) Bromochloromethane	10.57	128	32330	18.35	ug/L	93
32) Chloroform	10.64	83	137331	18.05	ug/L	98
33) Dibromofluoromethane	10.88	113	214972	50.84	ug/L	80
35) 1,1,1-Trichloroethane	10.96	97	108314	19.49	ug/L	88
36) 1,1-Dichloropropene	11.09	75	107130	19.87	ug/L	92
37) Isobutyl alcohol	11.49	43	93917	262.66	ug/L #	50
39) Carbon Tetrachloride	10.87	117	87113	18.69	ug/L	97
40) d4-1,2-Dichloroethane	11.55	65	270939	48.69	µg/L #	79
42) 1,2-Dichloroethane	11.64	62	120563	19.09	ug/L #	13
43) Benzene	11.41	78	309369	19.55	ug/L	96
44) Trichloroethene	12.08	130	65047	18.07	ug/L	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4006.D Vial: 6
Acq On : 4 Dec 2006 12:33 Operator: jdb
Sample : 6L04023-MS1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 4 12:55 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

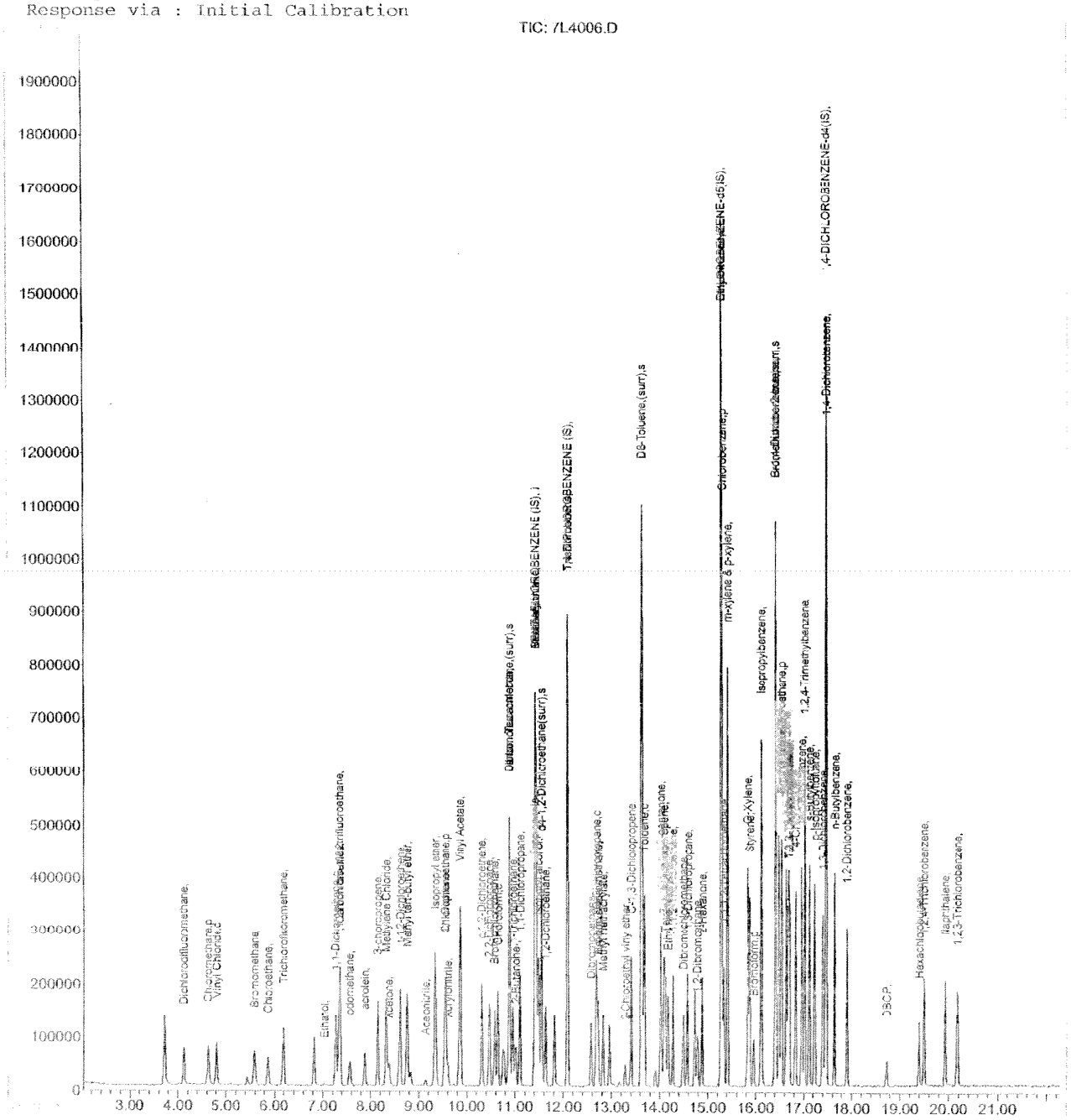
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) 1,2-Dichloropropane	12.68	63	92986	20.33 ug/L #	86
46) Methyl methacrylate	12.82	69	49335	18.07 ug/L	84
47) 1,4-Dioxane	12.73	88	311	2.09 ug/L	93
48) Dibromomethane	12.57	93	51492	17.96 ug/L #	73
49) Bromodichloromethane	13.72	83	109542	17.48 ug/L	98
50) 2-Chloroethyl vinyl ether	13.28	63	17413	34.27 ug/L	86
51) C-1,3-Dichloropropene	13.40	75	132635	20.04 ug/L	94
52) 4-Methyl-2-pentanone	14.01	100	24008	45.43 ug/L #	1
53) D8-Toluene	13.62	98	775617	50.95 ug/L	99
56) Toluene	13.68	92	166184	17.59 ug/L	96
57) T-1,3-Dichloropropene	14.08	75	120955	20.79 ug/L	96
58) Ethyl methacrylate	14.16	69	96273	17.27 ug/L	91
59) 1,1,2-Trichloroethane	14.27	97	65724	17.56 ug/L	87
60) 1,3-Dichloropropane	14.58	76	125324	17.52 ug/L	97
61) Tetrachloroethene	14.11	164	43639	10.73 ug/L	89
62) 2-Hexanone	14.87	43	158156	46.10 ug/L	86
63) Dibromochloromethane	14.49	129	66428	17.98 ug/L	99
64) 1,2-Dibromoethane	14.77	107	66310	18.01 ug/L	100
65) Chlorobenzene	15.30	112	172052	18.21 ug/L	97
66) 1,1,1,2-Tetrachloroethane	15.33	131	56351	17.60 ug/L	99
67) Ethylbenzene	15.27	106	86530	18.01 ug/L	75
68) m-xylene & p-xylene	15.40	106	213740	36.10 ug/L	86
69) O-Xylene	15.83	106	101452	17.59 ug/L	86
70) Styrene	15.88	104	177373	18.03 ug/L	96
71) Bromoform	15.96	173	31072	15.52 ug/L	95
72) Isopropylbenzene	16.10	105	257913	19.96 ug/L	95
73) C-1,4-Dichloro-2-butene	16.41	53	30131	15.96 ug/L #	1
74) Bromofluorobenzene	16.40	95	352761	50.45 ug/L #	84
76) 1,1,2,2-Tetrachloroethane	16.53	83	100350	20.03 ug/L	94
77) Bromobenzene	16.53	156	58983	17.06 ug/L	99
78) 1,2,3-Trichloropropane	16.70	75	108807	17.11 ug/L #	44
79) T-1,4-Dichloro-2-Butene	16.70	53	28011	16.36 ug/L #	77
80) n-Propylbenzene	16.48	91	358798	18.17 ug/L	87
82) 2-Chlorotoluene	16.68	91	242908	18.80 ug/L	93
83) 1,3,5-Trimethylbenzene	16.63	105	214072	17.80 ug/L	98
84) 4-Chlorotoluene	16.82	91	231262	18.62 ug/L	92
85) tert-Butylbenzene	16.95	119	171898	18.47 ug/L	97
86) Pentachloroethane	0.00	167		No Calib	
87) 1,2,4-Trimethylbenzene	17.01	105	228933	18.34 ug/L	98
88) s-Butylbenzene	17.12	105	288859	19.02 ug/L	87
89) 1,3-Dichlorobenzene	17.40	146	120675	18.16 ug/L	96
90) p-Isopropyltoluene	17.23	119	210780	18.76 ug/L	95
91) 1,4-Dichlorobenzene	17.48	146	122829	18.35 ug/L	97
92) n-Butylbenzene	17.64	91	239377	19.07 ug/L	93
93) 1,2-Dichlorobenzene	17.91	146	109755	17.88 ug/L	97
94) DBCP	18.73	157	10558	17.86 ug/L	87
95) 1,2,4-Trichlorobenzene	19.50	180	65800	18.78 ug/L	95
96) Hexachlorobutadiene	19.40	225	18968	19.45 ug/L	96
97) Naphthalene	19.92	128	161862	17.22 ug/L	97
98) 1,2,3-Trichlorobenzene	20.17	180	57664	17.30 ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4006.D Vial: 6
Acq On : 4 Dec 2006 12:33 Operator: jdb
Sample : 6L04023-MS1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 4 12:55 2006 Quant Results File: 8260W6L1.RES

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4007.D Vial: 7
Acq On : 4 Dec 2006 13:04 Operator: jdb
Sample : 6L04023-MSD1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 4 13:26 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) PENTAFLUOROBENZENE (IS)	11.43	168	259295	50.00 ug/L	-0.01
38) 1,4-DIFLUOROBENZENE (IS)	12.10	114	601603	50.00 ug/L	0.00
55) CHLOROBENZENE-d5(IS)	15.27	117	636169	50.00 ug/L	-0.01
81) 1,4-DICHLOROBENZENE-d4(IS)	17.46	152	284301	50.00 ug/L	0.00
System Monitoring Compounds					
34) Dibromofluoromethane (surr	10.88	113	222247	51.76 ug/L	0.00
Spiked Amount 50.000 Range 71 - 136 Recovery = 103.52%					
41) d4-1,2-Dichloroethane(surr	11.55	65	275669	48.01 µg/L	-0.01
Spiked Amount 50.000 Range 70 - 130 Recovery = 96.02%					
54) D8-Toluene (surr)	13.62	98	781168	49.73 ug/L	0.00
Spiked Amount 50.000 Range 75 - 126 Recovery = 99.46%					
75) Bromofluorobenzene (surr)	16.40	95	355628	49.76 ug/L	-0.01
Spiked Amount 50.000 Range 76 - 120 Recovery = 99.52%					
Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.12	85	90491	35.68 ug/L	93
3) Chloromethane	4.63	50	135663	27.09 ug/L	97
4) Vinyl Chloride	4.01	62	111289	25.56 ug/L	93
5) Bromomethane	5.58	94	61213	21.95 ug/L	96
6) Chloroethane	5.87	64	71649	22.90 ug/L	95
7) Trichlorofluoromethane	6.19	101	114502	23.93 ug/L	98
8) Ethanol	7.04	45	4363	45.43 ug/L	75
9) 1,2-Dichloro-1,1,2-triflur	0.00	117		No Calib #	
10) acrolein	7.87	56	77594	72.94 ug/L	94
11) 1,1,2Trichloro-1,2,2triflu	7.34	151	37899	19.28 ug/L #	45
12) 1,1-Dichloroethene	7.27	96	63744	17.92 ug/L #	77
13) Acetone	8.38	43	74793	51.75 ug/L	99
14) Iodomethane	7.56	142	71719	19.24 ug/L	88
15) Carbon disulfide	7.36	76	271743	18.64 ug/L	96
16) Acetonitrile	9.14	41	16280	22.73 ug/L	88
17) 3-chloropropene	8.15	41	138367	22.04 ug/L #	94
18) Methylene Chloride	8.33	84	96727	20.07 ug/L #	70
19) Acrylonitrile	9.61	53	32101	12.47 ug/L	96
20) Methyl tert-butyl ether	8.76	73	225878	20.92 ug/L	93
21) t-1,2-Dichloroethene	8.61	96	79446	19.55 ug/L	88
22) 1,1-Dichloroethane	9.56	63	157931	19.48 ug/L	98
23) Vinyl Acetate	9.86	43	231139	14.85 ug/L	92
24) Isopropyl ether	9.33	45	350044	20.50 ug/L #	77
25) Chloroprene	9.54	88	57703	18.60 ug/L	95
26) 2-Butanone	11.01	72	23401	51.35 ug/L #	58
27) c-1,2-Dichloroethene	10.31	96	84298	19.42 ug/L	98
28) 2,2-Dichloropropane	10.47	77	116103	25.14 ug/L	94
29) Propionitrile	11.40	54	12809	20.51 ug/L #	1
30) Methacrylonitrile	11.43	41	64669	19.81 ug/L	85
31) Bromochloromethane	10.58	128	34051	19.04 ug/L	98
32) Chloroform	10.65	83	144116	18.65 ug/L	99
33) Dibromofluoromethane	10.88	113	222247	51.76 ug/L	80
35) 1,1,1-Trichloroethane	10.95	97	110838	19.65 ug/L	90
36) 1,1-Dichloropropene	11.10	75	114345	20.89 ug/L	91
37) Isobutyl alcohol	11.48	43	94482	260.24 ug/L #	49
39) Carbon Tetrachloride	10.87	117	90797	18.88 ug/L	98
40) d4-1,2-Dichloroethane	11.55	65	275669	48.01 µg/L #	81
42) 1,2-Dichloroethane	11.63	62	117200	17.98 ug/L #	15
43) Benzene	11.42	78	310746	19.03 ug/L	99
44) Trichloroethene	12.09	130	65801	17.72 ug/L	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4007.D Vial: 7
Acq On : 4 Dec 2006 13:04 Operator: jdb
Sample : 6L04023-MSD1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 4 13:26 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

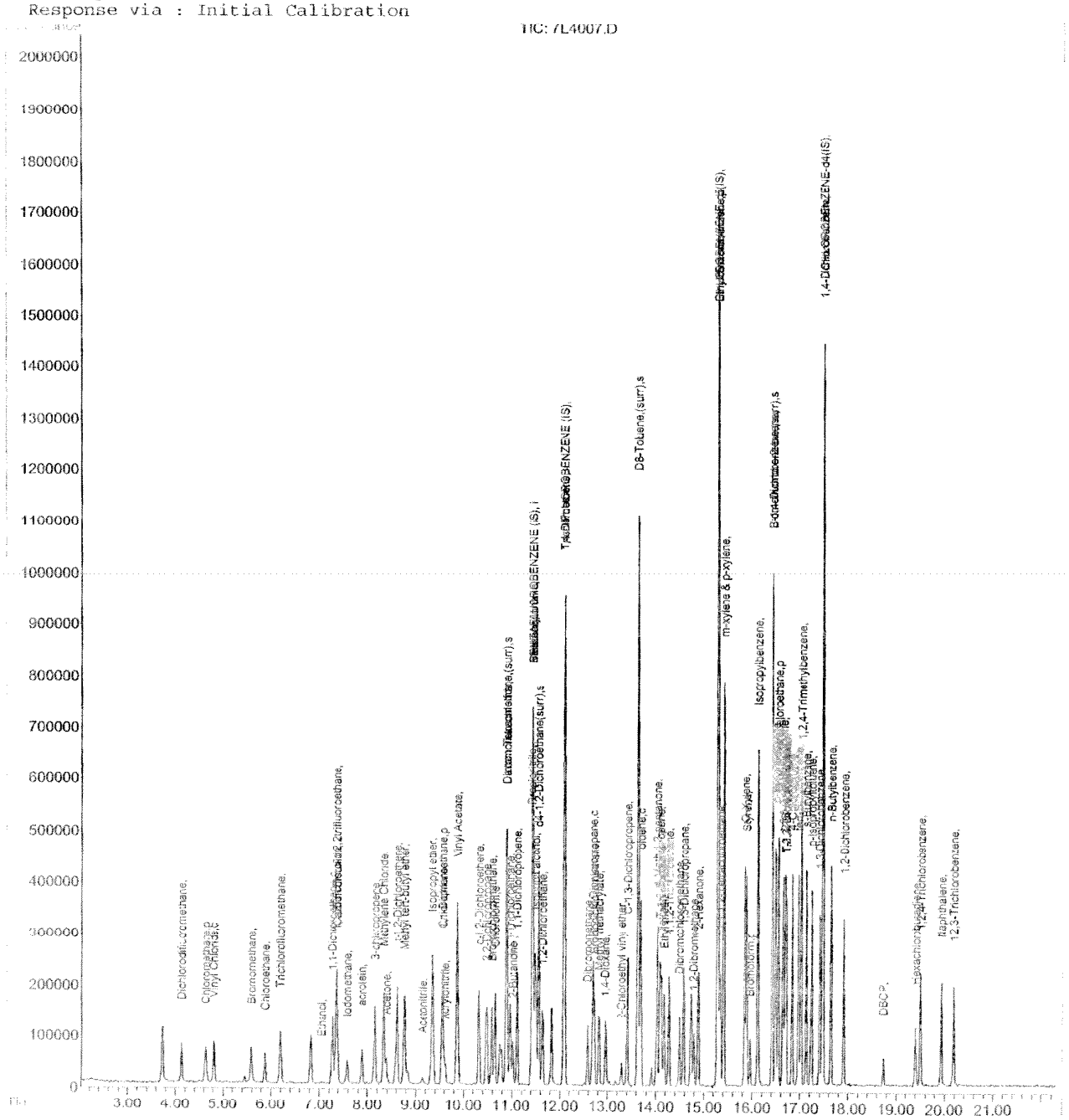
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) 1,2-Dichloropropane	12.69	63	91453	19.38 ug/L	86
46) Methyl methacrylate	12.82	69	54332	19.29 ug/L	85
47) 1,4-Dioxane	12.93	88	985	18.90 ug/L #	1
48) Dibromomethane	12.57	93	53667	18.14 ug/L #	70
49) Bromodichloromethane	12.73	83	109289	16.90 ug/L	99
50) 2-Chloroethyl vinyl ether	13.28	63	19592	35.05 ug/L	87
51) C-1,3-Dichloropropene	13.41	75	137441	20.13 ug/L	97
52) 4-Methyl-2-pentanone	14.02	100	25711	47.15 ug/L #	1
53) D8-Toluene	13.62	98	781168	49.73 ug/L	98
56) Toluene	13.68	92	170230	17.63 ug/L	97
57) T-1,3-Dichloropropene	14.08	75	121345	20.40 ug/L	95
58) Ethyl methacrylate	14.17	69	95478	16.76 ug/L	82
59) 1,1,2-Trichloroethane	14.27	97	67984	17.77 ug/L	85
60) 1,3-Dichloropropane	14.57	76	128790	17.61 ug/L	97
61) Tetrachloroethene	14.12	164	45718	10.98 ug/L	90
62) 2-Hexanone	14.88	43	173090	49.35 ug/L	86
63) Dibromochloromethane	14.48	129	64666	17.12 ug/L	94
64) 1,2-Dibromoethane	14.78	107	68553	18.22 ug/L	98
65) Chlorobenzene	15.29	112	178777	18.51 ug/L	96
66) 1,1,1,2-Tetrachloroethane	15.33	131	57283	17.51 ug/L	100
67) Ethylbenzene	15.27	106	88330	17.99 ug/L #	70
68) m-xylene & p-xylene	15.41	106	222932	36.83 ug/L	90
69) O-Xylene	15.83	106	106898	18.13 ug/L	88
70) Styrene	15.87	104	175586	17.46 ug/L	99
71) Bromoform	15.96	173	35147	17.05 ug/L	97
72) Isopropylbenzene	16.10	105	270385	20.47 ug/L	94
73) C-1,4-Dichloro-2-butene	16.42	53	30038	15.51 ug/L #	1
74) Bromofluorobenzene	16.40	95	355628	49.76 ug/L #	82
76) 1,1,2,2-Tetrachloroethane	16.53	83	100863	19.69 ug/L	96
77) Bromobenzene	16.53	156	57030	16.13 ug/L	87
78) 1,2,3-Trichloropropane	16.70	75	117063	18.01 ug/L #	45
79) T-1,4-Dichloro-2-Butene	16.70	53	33681	19.24 ug/L #	78
80) n-Propylbenzene	16.47	91	381828	18.92 ug/L	87
82) 2-Chlorotoluene	16.67	91	243954	19.06 ug/L	94
83) 1,3,5-Trimethylbenzene	16.63	105	220643	18.52 ug/L	95
84) 4-Chlorotoluene	16.82	91	232559	18.90 ug/L	91
85) tert-Butylbenzene	16.96	119	176878	19.19 ug/L	98
86) Pentachloroethane	0.00	167		No Calib	
87) 1,2,4-Trimethylbenzene	17.01	105	231342	18.71 ug/L	99
88) s-Butylbenzene	17.12	105	293137	19.49 ug/L	87
89) 1,3-Dichlorobenzene	17.39	146	118027	17.93 ug/L	96
90) p-Isopropyltoluene	17.22	119	215393	19.35 ug/L	93
91) 1,4-Dichlorobenzene	17.47	146	129409	19.51 ug/L	96
92) n-Butylbenzene	17.64	91	243580	19.59 ug/L	91
93) 1,2-Dichlorobenzene	17.90	146	113339	18.64 ug/L	97
94) DBCP	18.73	157	11829	19.87 ug/L #	77
95) 1,2,4-Trichlorobenzene	19.49	180	63060	18.17 ug/L	97
96) Hexachlorobutadiene	19.39	225	18153	18.85 ug/L	98
97) Naphthalene	19.93	128	176054	18.91 ug/L	97
98) 1,2,3-Trichlorobenzene	20.17	180	61935	18.76 ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4007.D Vial: 7
Acq On : 4 Dec 2006 13:04 Operator: jdb
Sample : 6L04023-MSD1 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 4 13:26 2006 Quant Results File: 8260W6L1.RES

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration



7L4007.D 8260W6L1.M Sun Dec 10 13:26:10 2006 Page 3

VOLATILES SAMPLE RAW DATA

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4009.D Vial: 9
Acq On : 4 Dec 2006 14:05 Operator: jdb
Sample : b610107-08 MW LTS 04/01/07 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 9:59 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) PENTAFLUOROBENZENE (IS)	11.44	168	259415	50.00 ug/L	0.00
38) 1,4-DIFLUOROBENZENE (IS)	12.10	114	600061	50.00 ug/L	0.00
55) CHLOROBENZENE-d5(IS)	15.28	117	628275	50.00 ug/L	0.00
81) 1,4-DICHLOROBENZENE-d4(IS)	17.47	152	278321	50.00 ug/L	0.00
System Monitoring Compounds					
34) Dibromofluoromethane (surr	10.88	113	212579	49.49 ug/L	0.00
Spiked Amount 50.000 Range 71 - 136 Recovery = 98.98%					
41) d4-1,2-Dichloroethane(surr	11.56	65	280732	49.02 µg/L	0.00
Spiked Amount 50.000 Range 70 - 130 Recovery = 98.04%					
54) D8-Toluene (surr)	13.63	98	776502	49.56 ug/L	0.00
Spiked Amount 50.000 Range 75 - 126 Recovery = 99.12%					
75) Bromofluorobenzene (surr)	16.41	95	344935	48.87 ug/L	0.00
Spiked Amount 50.000 Range 76 - 120 Recovery = 97.74%					
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.	
3) Chloromethane	0.00	50		N.D. d	
4) Vinyl Chloride	0.00	62		N.D.	
5) Bromomethane	5.78	94	151	-5.22 ug/L	100
6) Chloroethane	0.00	64		N.D. d	
7) Trichlorofluoromethane	0.00	101		N.D.	
8) Ethanol	7.08	45	189	-63.20 ug/L	71
9) 1,2-Dichloro-1,1,2-triflur	0.00	117		No Calib #	
10) acrolein	0.00	56		N.D. d	
11) 1,1,2Trichloro-1,2,2triflu	0.00	151		N.D.	
12) 1,1-Dichloroethene	0.00	96		N.D.	
13) Acetone	0.00	43		N.D. d	
14) Iodomethane	0.00	142		N.D. d	
15) Carbon disulfide	0.00	76		N.D.	
16) Acetonitrile	0.00	41		N.D. d	
17) 3-chloropropene	0.00	41		N.D.	
18) Methylene Chloride	0.00	84		N.D.	
19) Acrylonitrile	0.00	53		N.D.	
20) Methyl tert-butyl ether	0.00	73		N.D.	
21) t-1,2-Dichloroethene	0.00	96		N.D.	
22) 1,1-Dichloroethane	0.00	63		N.D.	
23) Vinyl Acetate	9.84	43	179	-20.66 ug/L #	76
24) Isopropyl ether	0.00	45		N.D.	
25) Chloroprene	0.00	88		N.D.	
26) 2-Butanone	0.00	72		N.D. d	
27) c-1,2-Dichloroethene	0.00	96		N.D.	
28) 2,2-Dichloropropane	0.00	77		N.D.	
29) Propionitrile	0.00	54		N.D. d	
30) Methacrylonitrile	0.00	41		N.D.	
31) Bromochloromethane	0.00	128		N.D.	
32) Chloroform	0.00	83		N.D.	
33) Dibromofluoromethane	10.88	113	212579	49.49 ug/L	81
35) 1,1,1-Trichloroethane	0.00	97		N.D.	
36) 1,1-Dichloropropene	0.00	75		N.D.	
37) Isobutyl alcohol	0.00	43		N.D. d	
39) Carbon Tetrachloride	0.00	117		N.D. d	
40) d4-1,2-Dichloroethane	11.56	65	280732	49.02 µg/L #	79
42) 1,2-Dichloroethane	0.00	62		N.D.	
43) Benzene	0.00	78		N.D.	
44) Trichloroethene	0.00	130		N.D.	

(#) = qualifier out of range (m) = manual integration
7L4009.D 8260W6L1.M Sun Dec 10 13:28:07 2006

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4009.D Vial: 9
Acq On : 4 Dec 2006 14:05 Operator: jdb
Sample : b610107-08 MW WD 04/24/07 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 9:59 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

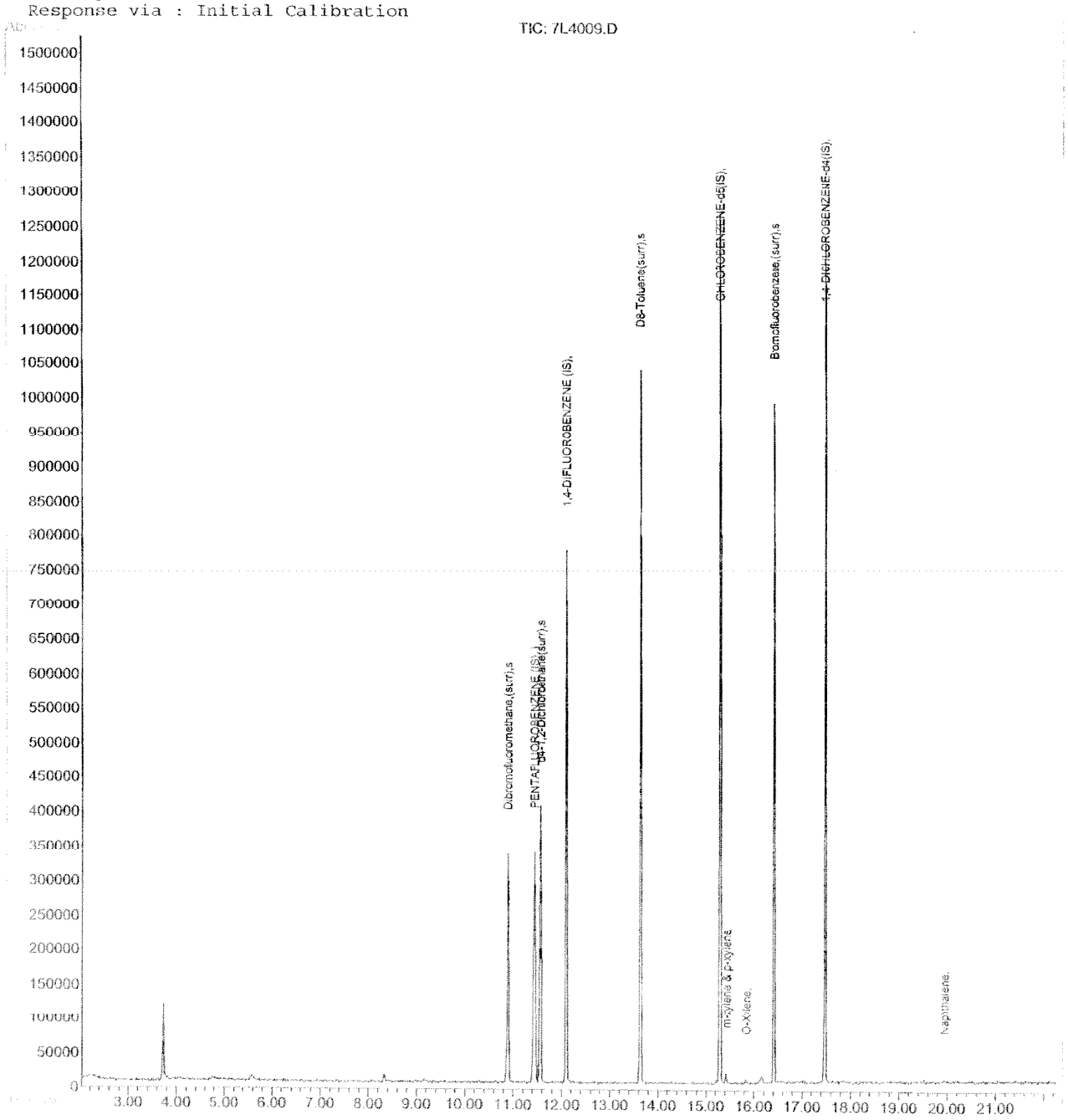
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) 1,2-Dichloropropane	0.00	63		N.D.	
46) Methyl methacrylate	0.00	69		N.D.	
47) 1,4-Dioxane	12.91	88	227	-0.27 ug/L #	16
48) Dibromomethane	0.00	93		N.D.	
49) Bromodichloromethane	0.00	83		N.D.	
50) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
51) C-1,3-Dichloropropene	0.00	75		N.D.	
52) 4-Methyl-2-pentanone	0.00	100		N.D. d	
53) D8-Toluene	13.63	98	776502	49.56 ug/L	98
56) Toluene	0.00	92		N.D.	
57) T-1,3-Dichloropropene	0.00	75		N.D.	
58) Ethyl methacrylate	0.00	69		N.D.	
59) 1,1,2-Trichloroethane	0.00	97		N.D.	
60) 1,3-Dichloropropane	0.00	76		N.D.	
61) Tetrachloroethene	0.00	164		N.D. d	
62) 2-Hexanone	0.00	43		N.D.	
63) Dibromochloromethane	0.00	129		N.D.	
64) 1,2-Dibromoethane	0.00	107		N.D.	
65) Chlorobenzene	0.00	112		N.D.	
66) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
67) Ethylbenzene	0.00	106		N.D.	
68) m-xylene & p-xylene	15.41	106	3505	0.59 ug/L	79
69) O-Xylene	15.83	106	1289	0.22 ug/L	94
70) Styrene	0.00	104		N.D.	
71) Bromoform	0.00	173		N.D. d	
72) Isopropylbenzene	0.00	105		N.D.	
73) C-1,4-Dichloro-2-butene	16.42	53	350	-2.31 ug/L #	1
74) Bromofluorobenzene	16.41	95	344935	48.87 ug/L #	84
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
77) Bromobenzene	0.00	156		N.D.	
78) 1,2,3-Trichloropropane	0.00	75		N.D.	
79) T-1,4-Dichloro-2-Butene	0.00	53		N.D.	
80) n-Propylbenzene	0.00	91		N.D.	
82) 2-Chlorotoluene	0.00	91		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
84) 4-Chlorotoluene	0.00	91		N.D.	
85) tert-Butylbenzene	0.00	119		N.D.	
86) Pentachloroethane	0.00	167		No Calib #	
87) 1,2,4-Trimethylbenzene	0.00	105		N.D.	
88) s-Butylbenzene	0.00	105		N.D.	
89) 1,3-Dichlorobenzene	0.00	146		N.D.	
90) p-Isopropyltoluene	0.00	119		N.D.	
91) 1,4-Dichlorobenzene	0.00	146		N.D.	
92) n-Butylbenzene	0.00	91		N.D.	
93) 1,2-Dichlorobenzene	0.00	146		N.D.	
94) DBCP	0.00	157		N.D. d	
95) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
96) Hexachlorobutadiene	0.00	225		N.D. d	
97) Naphthalene	19.93	128	2082	0.23 ug/L #	68
98) 1,2,3-Trichlorobenzene	0.00	180		N.D.	

(#) = qualifier out of range (m) = manual integration
7L4009.D 8260W6L1.M Sun Dec 10 13:28:08 2006

Quantitation Report

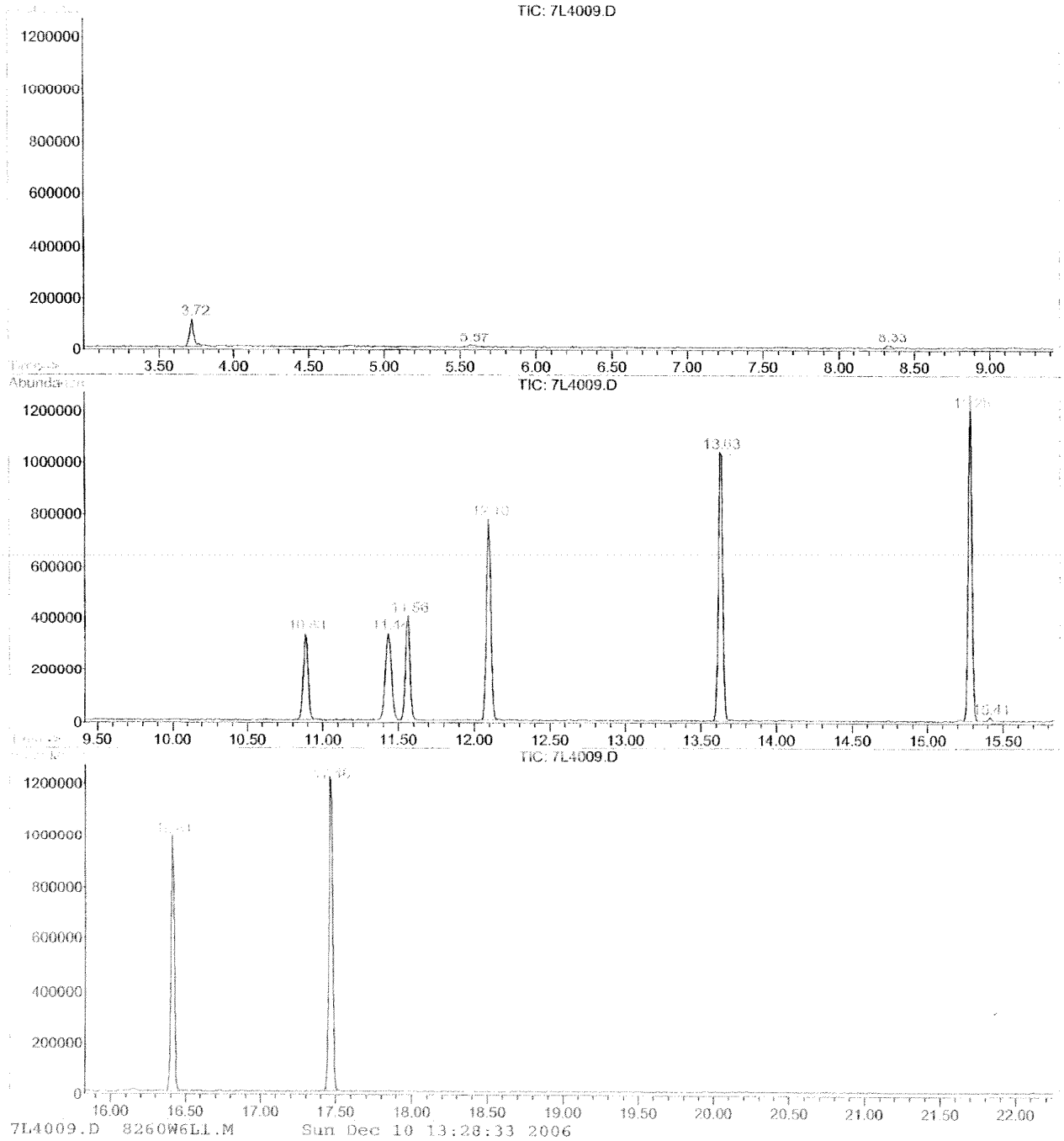
Data File : C:\HPCHEM\1\DATA\20067L4\7L4009.D Vial: 9
Acq On : 4 Dec 2006 14:05 Operator: jdb
Sample : b610107-08 MW LTS 04/24/07 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 9:59 2006 Quant Results File: 8260W6L1.RES

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration



LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\20067L4\7L4009.D
Operator : jdb
Acquired : 4 Dec 2006 14:05 using AcqMethod 8260W6L1
Instrument : JVGCMS1
Sample Name: b610107-08 mw LTS 6/4/07
Misc Info :
Vial Number: 9
Quant File :8260W6L1.RES (RTE Integrator)



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4009.D Vial: 9
Acq On : 4 Dec 2006 14:05 Operator: jdb
Sample : b610107-08 mw LTS 04/24/07 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.724	167	172	179	rBV	111249	229278	10.41%	1.862%
2	5.568	351	359	368	rBV9	8811	40503	1.84%	0.329%
3	8.329	634	639	643	rBV3	13229	35611	1.62%	0.289%
4	10.884	893	898	904	rBV	330779	708980	32.18%	5.757%
5	11.436	945	954	962	rVB	333437	953643	43.28%	7.744%
6	11.564	962	967	975	rBV	400935	810684	36.79%	6.583%
7	12.097	1016	1021	1027	rBV	770022	1546567	70.19%	12.559%
8	13.625	1171	1176	1183	rBV	1032824	2203475	100.00%	17.893%
9	15.282	1339	1344	1349	rBV	1258752	2128325	96.59%	17.283%
10	15.410	1354	1357	1361	rBV2	14034	22316	1.01%	0.181%
11	16.406	1454	1458	1463	rBV	983382	1561575	70.87%	12.681%
12	17.462	1561	1565	1570	rBV	1212194	2073623	94.11%	16.839%

Sum of corrected areas: 12314580

7L4009.D 8260W6L1.M Sun Dec 10 13:28:33 2006

Tentatively Identified Compound (LSC) summary

Operator ID: jdb Date Acquired: 4 Dec 2006 14:05
Data File: C:\HPCHEM\1\DATA\20067L4\7L4009.D
Name: b610107-08 MW 04/24/07 LTS
Misc:
Method: C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title: VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library Searched: C:\DATABASE\NBS75K.L

TIC	Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

7L4009.D 8260W6L1.M Sun Dec 10 13:28:33 2006

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4018.D
Acq On : 4 Dec 2006 18:42
Sample : b610171-01
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:13 2006

Vial: 18
Operator: jdb
Inst : JVGCMS1
Multiplr: 1.00
Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) PENTAFLUOROBENZENE (IS)	11.43	168	273658	50.00 ug/L	-0.01
38) 1,4-DIFLUOROBENZENE (IS)	12.09	114	628166	50.00 ug/L	-0.01
55) CHLOROBENZENE-d5(IS)	15.27	117	649720	50.00 ug/L	-0.01
81) 1,4-DICHLOROBENZENE-d4(IS)	17.46	152	285476	50.00 ug/L	0.00

System Monitoring Compounds

34) Dibromofluoromethane (surr	10.87	113	229467	50.64 ug/L	-0.01
Spiked Amount 50.000	Range 71 - 136		Recovery = 101.28%		
41) d4-1,2-Dichloroethane(surr	11.55	65	284006	47.37 µg/L	-0.01
Spiked Amount 50.000	Range 70 - 130		Recovery = 94.74%		
54) D8-Toluene (surr)	13.63	98	818549	49.91 ug/L	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 99.82%		
75) Bromofluorobenzene (surr)	16.40	95	357754	49.01 ug/L	-0.01
Spiked Amount 50.000	Range 76 - 120		Recovery = 98.02%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.	
3) Chloromethane	0.00	50		N.D.	
4) Vinyl Chloride	0.00	62		N.D.	
5) Bromomethane	5.57	94	775	-4.96 ug/L	87
6) Chloroethane	0.00	64		N.D. d	
7) Trichlorofluoromethane	0.00	101		N.D.	
8) Ethanol	6.91	45	282	-61.16 ug/L	72
9) 1,2-Dichloro-1,1,2-triflur	0.00	117		No Calib #	
10) acrolein	0.00	56		N.D.	
11) 1,1,2Trichloro-1,2,2triflu	0.00	151		N.D.	
12) 1,1-Dichloroethene	0.00	96		N.D.	
13) Acetone	0.00	43		N.D. d	
14) Iodomethane	0.00	142		N.D. d	
15) Carbon disulfide	0.00	76		N.D.	
16) Acetonitrile	0.00	41		N.D. d	
17) 3-chloropropene	0.00	41		N.D.	
18) Methylene Chloride	8.33	84	1107	-1.32 ug/L #	57
19) Acrylonitrile	0.00	53		N.D.	
20) Methyl tert-butyl ether	0.00	73		N.D.	
21) t-1,2-Dichloroethene	0.00	96		N.D.	
22) 1,1-Dichloroethane	0.00	63		N.D.	
23) Vinyl Acetate	9.89	43	513	-20.61 ug/L	67
24) Isopropyl ether	0.00	45		N.D.	
25) Chloroprene	0.00	88		N.D.	
26) 2-Butanone	0.00	72		N.D. d	
27) c-1,2-Dichloroethene	0.00	96		N.D.	
28) 2,2-Dichloropropane	0.00	77		N.D.	
29) Propionitrile	0.00	54		N.D. d	
30) Methacrylonitrile	0.00	41		N.D.	
31) Bromochloromethane	0.00	128		N.D.	
32) Chloroform	0.00	83		N.D.	
33) Dibromofluoromethane	10.87	113	229467	50.64 ug/L	00
35) 1,1,1-Trichloroethane	0.00	97		N.D.	
36) 1,1-Dichloropropene	0.00	75		N.D.	
37) Isobutyl alcohol	0.00	43		N.D. d	
39) Carbon Tetrachloride	0.00	117		N.D.	
40) d4-1,2-Dichloroethane	11.55	65	284006	47.37 µg/L #	79
42) 1,2-Dichloroethane	0.00	62		N.D.	
43) Benzene	0.00	78		N.D.	
44) Trichloroethene	0.00	130		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4018.D Vial: 18
Acq On : 4 Dec 2006 18:42 Operator: jdb
Sample : b610171-01 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:13 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) 1,2-Dichloropropane	0.00	63		N.D.	
46) Methyl methacrylate	0.00	69		N.D.	
47) 1,4-Dioxane	12.89	88	125	-3.00 ug/L #	69
48) Dibromomethane	0.00	93		N.D.	
49) Bromodichloromethane	0.00	83		N.D.	
50) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
51) C-1,3-Dichloropropene	0.00	75		N.D.	
52) 4-Methyl-2-pentanone	0.00	100		N.D. d	
53) D8-Toluene	13.63	98	818549	49.91 ug/L	99
56) Toluene	0.00	92		N.D.	
57) T-1,3-Dichloropropene	0.00	75		N.D.	
58) Ethyl methacrylate	0.00	69		N.D.	
59) 1,1,2-Trichloroethane	0.00	97		N.D.	
60) 1,3-Dichloropropane	0.00	76		N.D.	
61) Tetrachloroethene	0.00	164		N.D. d	
62) 2-Hexanone	0.00	43		N.D.	
63) Dibromochloromethane	0.00	129		N.D.	
64) 1,2-Dibromoethane	0.00	107		N.D.	
65) Chlorobenzene	0.00	112		N.D.	
66) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
67) Ethylbenzene	0.00	106		N.D.	
68) m-xylene & p-xylene	0.00	106		N.D.	
69) O-Xylene	0.00	106		N.D.	
70) Styrene	0.00	104		N.D.	
71) Bromoform	0.00	173		N.D. d	
72) Isopropylbenzene	0.00	105		N.D.	
73) C-1,4-Dichloro-2-butene	16.39	53	472	-2.25 ug/L #	1
74) Bromofluorobenzene	16.40	95	357754	49.01 ug/L #	83
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
77) Bromobenzene	0.00	156		N.D. d	
78) 1,2,3-Trichloropropane	0.00	75		N.D.	
79) T-1,4-Dichloro-2-Butene	0.00	53		N.D. d	
80) n-Propylbenzene	0.00	91		N.D.	
82) 2-Chlorotoluene	0.00	91		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
84) 4-Chlorotoluene	0.00	91		N.D.	
85) tert-Butylbenzene	16.96	119	1967	0.21 ug/L	82
86) Pentachloroethane	0.00	167		No Calib #	
87) 1,2,4-Trimethylbenzene	0.00	105		N.D.	
88) s-Butylbenzene	17.12	105	7308	0.48 ug/L	89
89) 1,3-Dichlorobenzene	0.00	146		N.D.	
90) p-Isopropyltoluene	0.00	119		N.D.	
91) 1,4-Dichlorobenzene	0.00	146		N.D.	
92) n-Butylbenzene	0.00	91		N.D. d	
93) 1,2-Dichlorobenzene	0.00	146		N.D.	
94) DBCP	0.00	157		N.D. d	
95) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
96) Hexachlorobutadiene	0.00	225		N.D. d	
97) Naphthalene	19.92	128	8043	0.86 ug/L	74
98) 1,2,3-Trichlorobenzene	0.00	180		N.D.	

(#) = qualifier out of range (m) = manual integration

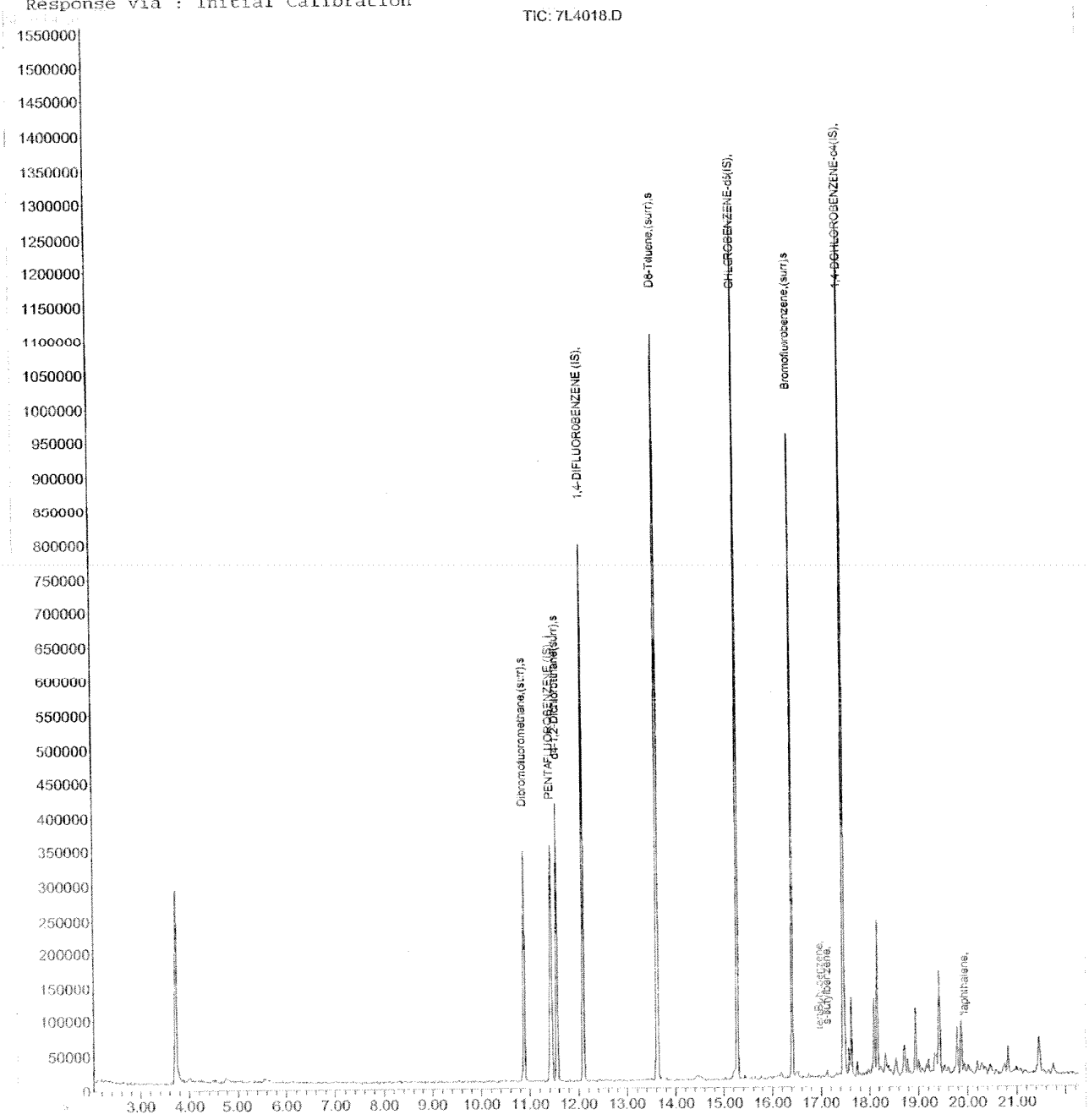
Quantitation Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4018.D
Acq On : 4 Dec 2006 18:42
Sample : b610171-01
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:13 2006

Vial: 18
Operator: jdb
Inst : JVGCMS1
Multiplr: 1.00

Quant Results File: 8260W6L1.RES

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4018.D Vial: 18
Acq On : 4 Dec 2006 18:42 Operator: jdb
Sample : b610171-01 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: lscint.p

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library : C:\DATABASE\NBS75K.L

****
Peak Number 1 Indane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.62	4.53 ug/L	210568	1,4-DICHLOROBENZENE-d4(IS)	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane	118	C9H10	000496-11-7	81
2	Benzene, 1-propenyl-, (E)-	118	C9H10	000873-66-5	76
3	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	74
4	Benzene, 2-propenyl-	118	C9H10	000300-57-2	72
5	Benzene, 2-propenyl-	118	C9H10	000300-57-2	72

****
Peak Number 2 Benzene, (2-methyl-1-propenyl) Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.09	4.61 ug/L	214506	1,4-DICHLOROBENZENE-d4(IS)	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2 methyl-1-propenyl)-	132	C10H12	000768-49-0	94
2	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	91
3	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	83
4	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	80
5	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	74

****
Peak Number 3 Benzene, (1-methyl-1-propenyl) Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.15	7.55 ug/L	350950	1,4-DICHLOROBENZENE-d4(IS)	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-methyl-1-propenyl)-, (E	132	C10H12	000768-00-3	81
2	Indan, 1-methyl-	132	C10H12	000767-58-8	81
3	1H-Indene, 2,3-dihydro-2-methyl-	132	C10H12	000824-63-5	80
4	Indan, 1-methyl-	132	C10H12	000767-58-8	76
5	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	72

Library Search Compound Report

```
Data File : C:\HPCHEM\1\DATA\20067L4\7L4018.D            Vial: 18
Acq On    :  4 Dec 2006  18:42                        Operator: jdb
Sample    : b610171-01                                Inst    : JVGCMS1
Misc      :                                           Multiplr: 1.00
MS Integration Params: lscint.p

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title        : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library      : C:\DATABASE\NBS75K.L
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****

Peak Number 4 2,3-Dihydro-1-methylindene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.94	4.01 ug/L	186428	1,4-DICHLOROBENZENE-d4(IS)	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	90
2	Indan, 1-methyl-	132	C10H12	000767-58-8	90
3	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	87
4	Indan, 1-methyl-	132	C10H12	000767-58-8	87
5	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	80

****

Peak Number 5 1H-Indene, 2,3-dihydro-1,6-dim Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.41	7.14 ug/L	331964	1,4-DICHLOROBENZENE-d4(IS)	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-1,6-dimethyl	146	C11H14	017059-48-2	91
2	Benzene, (1,1-dimethyl-2-propenyl)-	146	C11H14	018321-36-3	72
3	3-Phenyl-4,5-dimethyl-2,1-oxaborola	202	C13H19BO	000000-00-0	64
4	1H-Indene, 2,3-dihydro-1,1-dimethyl	146	C11H14	004912-92-9	64
5	1H-Indene, 2,3-dihydro-1,2-dimethyl	146	C11H14	017057-82-8	58

****

Peak Number 6 Naphthalene, 1,2,3,4-tetrahydr Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.77	3.11 ug/L	144541	1,4-DICHLOROBENZENE-d4(IS)	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-2-m	146	C11H14	003877-19-8	93
2	Naphthalene, 1,2,3,4-tetrahydro-2-m	146	C11H14	003877-19-8	90
3	Naphthalene, 1,2,3,4-tetrahydro-2-m	146	C11H14	003877-19-8	80
4	2(1H)-Naphthalenone, 3,4-dihydro-	146	C10H10O	000530-93-8	72
5	Methyl 3-phenylcyclobutane-1,1-dica	234	C13H14O4	000000-00-0	47

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4018.D Vial: 18
Acq On : 4 Dec 2006 18:42 Operator: jdb
Sample : b610171-01 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: lscint.p

Quant Method . C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library : C:\DATABASE\NBS75K.L

****
Peak Number 7 Naphthalene, 1,2,3,4-tetrahydr Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.86	2.67 ug/L	123968	1,4-DICHLOROBENZENE-d4(IS)	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-1-m	146	C11H14	001559-81-5	90
2	Naphthalene, 1,2,3,4-tetrahydro-1-m	146	C11H14	001559-81-5	87
3	1H-Indene, 2,3-dihydro-4,7-dimethyl	146	C11H14	006682-71-9	76
4	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	74
5	1H-Indene, 2,3-dihydro-1,2-dimethyl	146	C11H14	017057-82-8	68

****
Peak Number 8 unknown1 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.81	1.75 ug/L	81500	1,4-DICHLOROBENZENE-d4(IS)	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-5-m	146	C11H14	002809-64-5	64
2	1H-Indene, 2,3-dihydro-4,7-dimethyl	146	C11H14	006682-71-9	60
3	1H-Indene, 2,3-dihydro-1,6-dimethyl	146	C11H14	017059-48-2	55
4	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	53
5	Naphthalene, 1,2,3,4-tetrahydro-6-m	146	C11H14	001680-51-9	52

****
Peak Number 9 Naphthalene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.45	2.02 ug/L	93681	1,4-DICHLOROBENZENE-d4(IS)	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	90
2	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	90
3	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	86
4	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	86
5	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	86

Tentatively Identified Compound (LSC) summary

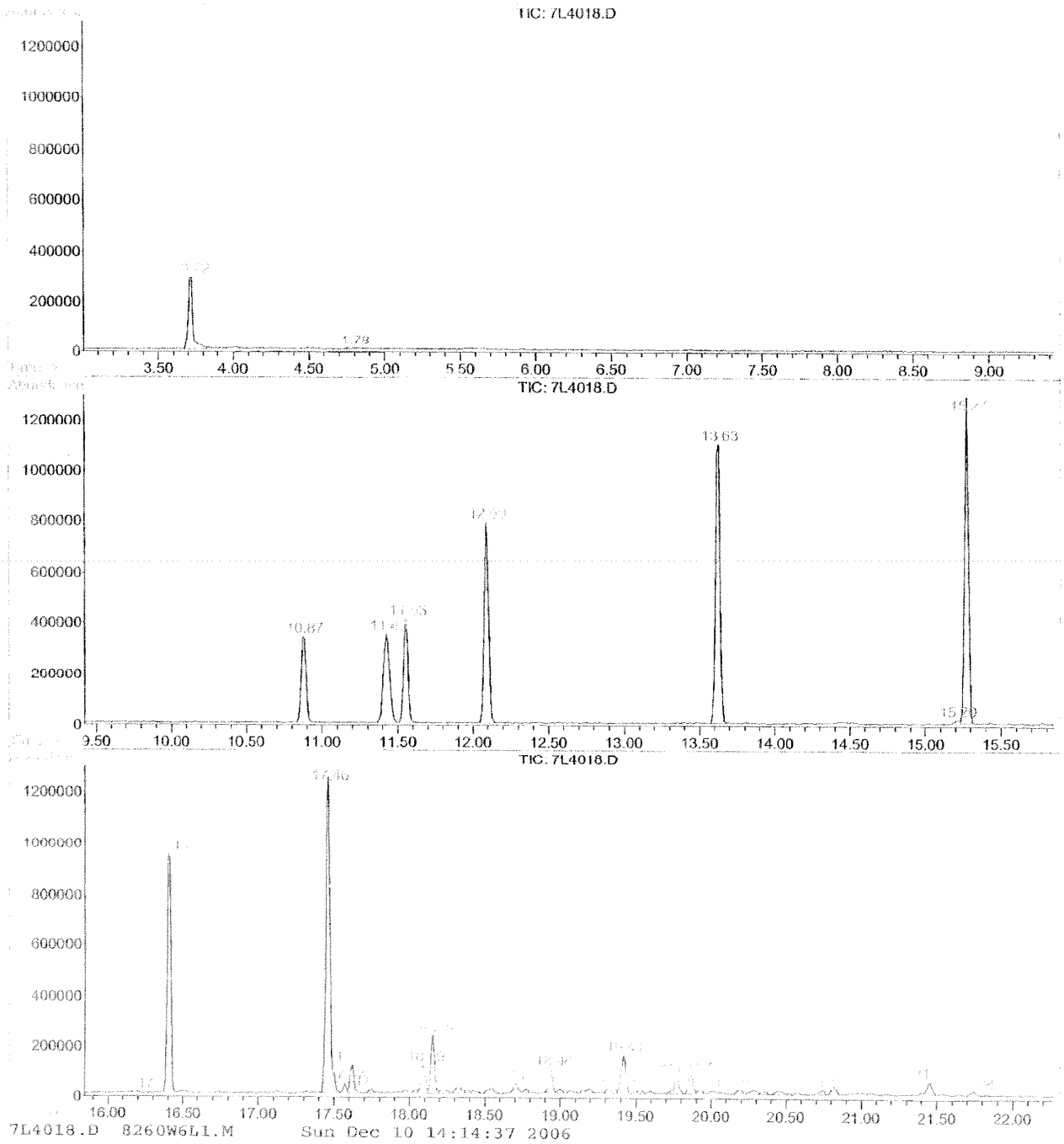
Operator ID: jdb Date Acquired: 4 Dec 2006 18:42
Data File: C:\HPCHEM\1\DATA\20067L4\7L4018.D
Name: b610171-01
Misc:
Method: C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title: VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Indane	17.62	4.5	ug/L	210568	ISTD04	17.46	2324230	50.0
Benzene, (2-methyl-1	18.09	4.6	ug/L	214506	ISTD04	17.46	2324230	50.0
Benzene, (1-methyl-1	18.15	7.5	ug/L	350950	ISTD04	17.46	2324230	50.0
2,3-Dihydro-1-methyl	18.94	4.0	ug/L	186428	ISTD04	17.46	2324230	50.0
1H-Indene, 2,3-dihyd	19.41	7.1	ug/L	331964	ISTD04	17.46	2324230	50.0
Naphthalene, 1,2,3,4	19.77	3.1	ug/L	144541	ISTD04	17.46	2324230	50.0
Naphthalene, 1,2,3,4	19.86	2.7	ug/L	123968	ISTD04	17.46	2324230	50.0
unknown1	20.81	1.8	ug/L	81500	ISTD04	17.46	2324230	50.0
Naphthalene, 2-methy	21.45	2.0	ug/L	93681	ISTD04	17.46	2324230	50.0

7L4018.D 8260W6L1.M Sun Dec 10 14:14:38 2006

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\20067L4\7L4018.D
Operator : jdb
Acquired : 4 Dec 2006 18:42 using AcqMethod 8260W6L1
Instrument : JVGCMS1
Sample Name: b610171-01
Misc Info :
Vial Number: 18
Quant File :8260W6L1.RES (RTE Integrator)



7L4018.D 8260W6L1.M Sun Dec 10 14:14:37 2006

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4018.D Vial: 18
Acq On : 4 Dec 2006 18:42 Operator: jdb
Sample : b610171-01 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

IF leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.723	166	172	182	rBV	284328	654360	28.15%	4.010%
2	4.779	274	279	282	rBV4	7412	26390	1.14%	0.162%
3	10.874	892	897	903	rBV	337353	735030	31.62%	4.505%
4	11.426	946	953	961	rVB	347774	996107	42.86%	6.105%
5	11.554	961	966	974	rBV	407730	816750	35.14%	5.006%
6	12.087	1015	1020	1028	rVB	788573	1605897	69.09%	9.842%
7	13.625	1170	1176	1182	rBV	1095719	2296395	98.80%	14.074%
8	15.203	1332	1336	1339	rBV4	12973	38026	1.64%	0.233%
9	15.272	1339	1343	1348	rVB	1284738	2228388	95.88%	13.657%
10	16.170	1432	1434	1439	rVB4	10066	24412	1.05%	0.150%
11	16.396	1453	1457	1462	rBV	941880	1611653	69.34%	9.877%
12	17.462	1560	1565	1573	rBV	1243061	2324234	100.00%	14.244%
13	17.570	1573	1576	1578	rVV3	40337	64922	2.79%	0.398%
14	17.619	1578	1581	1589	rVB	118130	210568	9.06%	1.290%
15	17.748	1589	1594	1596	rBV	23148	41738	1.80%	0.256%
16	18.043	1621	1624	1625	rVV	17880	28161	1.21%	0.173%
17	18.093	1625	1629	1632	rVV	114159	214506	9.23%	1.315%
18	18.152	1632	1635	1639	rVV2	229440	402786	17.33%	2.469%
19	18.221	1639	1642	1649	rVV8	13368	48412	2.08%	0.297%
20	18.320	1649	1652	1657	rVV3	32578	93735	4.03%	0.574%
21	18.428	1661	1663	1669	rVV7	10155	25890	1.11%	0.159%
22	18.546	1669	1675	1682	rVB7	27317	79404	3.42%	0.487%
23	18.704	1687	1691	1695	rVV3	42005	92027	3.96%	0.564%
24	18.773	1695	1698	1701	rVB2	21578	35091	1.51%	0.215%
25	18.941	1711	1715	1718	rBV	96122	186428	8.02%	1.143%
26	19.000	1718	1721	1725	rVB3	20426	37841	1.63%	0.232%
27	19.158	1733	1737	1738	rBV3	14529	24162	1.04%	0.148%
28	19.197	1738	1741	1745	rVB2	20024	37687	1.62%	0.231%
29	19.326	1750	1754	1755	rVV	30100	58455	2.52%	0.358%
30	19.355	1755	1757	1759	rVV2	29336	51138	2.20%	0.313%
31	19.414	1759	1763	1769	rVB	151346	331964	14.28%	2.034%
32	19.533	1772	1775	1778	rVV3	13644	33248	1.43%	0.204%
33	19.769	1792	1799	1804	rVB2	69234	164003	7.06%	1.005%
34	19.868	1804	1809	1812	rBV2	77430	171264	7.37%	1.050%
35	19.927	1812	1815	1819	rVB5	14062	31145	1.34%	0.191%
36	20.184	1836	1841	1846	rBV8	19952	52943	2.28%	0.324%
37	20.282	1846	1851	1855	rVV8	17462	57117	2.46%	0.350%
38	20.341	1855	1857	1862	rVB6	12239	32628	1.40%	0.200%
39	20.450	1862	1868	1874	rBV8	15617	53701	2.31%	0.329%
40	20.746	1891	1896	1900	rBV7	15945	45536	1.96%	0.279%
41	20.815	1900	1905	1910	rVB2	39931	81511	3.51%	0.500%
42	21.456	1966	1970	1975	rVB2	51817	121632	5.23%	0.745%
43	21.742	1994	1999	2005	rBV4	17516	49562	2.13%	0.304%

Sum of corrected areas: 16316847

7L4018.D 8260W6L1.M Sun Dec 10 14:14:36 2006

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4019.D
Acq On : 4 Dec 2006 19:13
Sample : b610171-02
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:14 2006

Vial: 19
Operator: jdb
Inst : JVGCMS1
Multiplr: 1.00
Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) PENTAFLUOROBENZENE (IS)	11.43	168	275269	50.00 ug/L	-0.01
38) 1,4-DIFLUOROBENZENE (IS)	12.09	114	617566	50.00 ug/L	-0.01
55) CHLOROBENZENE-d5(IS)	15.27	117	651353	50.00 ug/L	-0.01
81) 1,4-DICHLOROBENZENE-d4(IS)	17.45	152	294127	50.00 ug/L	-0.01
System Monitoring Compounds					
34) Dibromofluoromethane (surr	10.88	113	220389	48.35 ug/L	-0.01
Spiked Amount 50.000 Range 71 - 136			Recovery = 96.70%		
41) d4-1,2-Dichloroethane(surr	11.55	65	276781	46.96 µg/L	-0.02
Spiked Amount 50.000 Range 70 - 130			Recovery = 93.92%		
54) D8-Toluene (surr)	13.62	98	817252	50.68 ug/L	-0.01
Spiked Amount 50.000 Range 75 - 126			Recovery = 101.36%		
75) Bromofluorobenzene (surr)	16.40	95	365284	49.92 ug/L	-0.01
Spiked Amount 50.000 Range 76 - 120			Recovery = 99.84%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.	
3) Chloromethane	0.00	50		N.D.	
4) Vinyl Chloride	0.00	62		N.D.	
5) Bromomethane	5.61	94	878	-4.92 ug/L #	19
6) Chloroethane	0.00	64		N.D. d	
7) Trichlorofluoromethane	0.00	101		N.D.	
8) Ethanol	7.03	45	655	-52.06 ug/L	90
9) 1,2-Dichloro-1,1,2-triflur	0.00	117		N.D.	
10) acrolein	0.00	56		N.D.	
11) 1,1,2Trichloro-1,2,2triflu	0.00	151		N.D.	
12) 1,1-Dichloroethene	0.00	96		N.D.	
13) Acetone	8.39	43	3111	2.03 ug/L	81
14) Iodomethane	0.00	142		N.D. d	
15) Carbon disulfide	0.00	76		N.D.	
16) Acetonitrile	0.00	41		N.D. d	
17) 3-chloropropene	0.00	41		N.D.	
18) Methylene Chloride	8.31	84	934	-1.36 ug/L #	60
19) Acrylonitrile	0.00	53		N.D.	
20) Methyl tert-butyl ether	0.00	73		N.D.	
21) t-1,2-Dichloroethene	0.00	96		N.D.	
22) 1,1-Dichloroethane	0.00	63		N.D.	
23) Vinyl Acetate	9.92	43	192	-20.65 ug/L #	1
24) Isopropyl ether	0.00	45		N.D.	
25) Chloroprene	0.00	88		N.D.	
26) 2-Butanone	0.00	72		N.D. d	
27) c-1,2-Dichloroethene	0.00	96		N.D.	
28) 2,2-Dichloropropane	0.00	77		N.D.	
29) Propionitrile	11.39	54	239	0.36 ug/L #	1
30) Methacrylonitrile	0.00	41		N.D.	
31) Bromochloromethane	0.00	128		N.D.	
32) Chloroform	0.00	83		N.D.	
33) Dibromofluoromethane	10.88	113	220389	48.35 ug/L	82
35) 1,1,1-Trichloroethane	0.00	97		N.D.	
36) 1,1-Dichloropropene	0.00	75		N.D.	
37) Isobutyl alcohol	0.00	43		N.D. d	
39) Carbon Tetrachloride	0.00	117		N.D. d	
40) d4-1,2-Dichloroethane	11.55	65	276781	46.96 µg/L #	79
42) 1,2-Dichloroethane	0.00	62		N.D.	
43) Benzene	0.00	78		N.D.	
44) Trichloroethene	0.00	130		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4019.D
Acq On : 4 Dec 2006 19:13
Sample : b610171-02
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:14 2006

Vial: 19
Operator: jdb
Inst : JVGCMS1
Multiplr: 1.00
Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

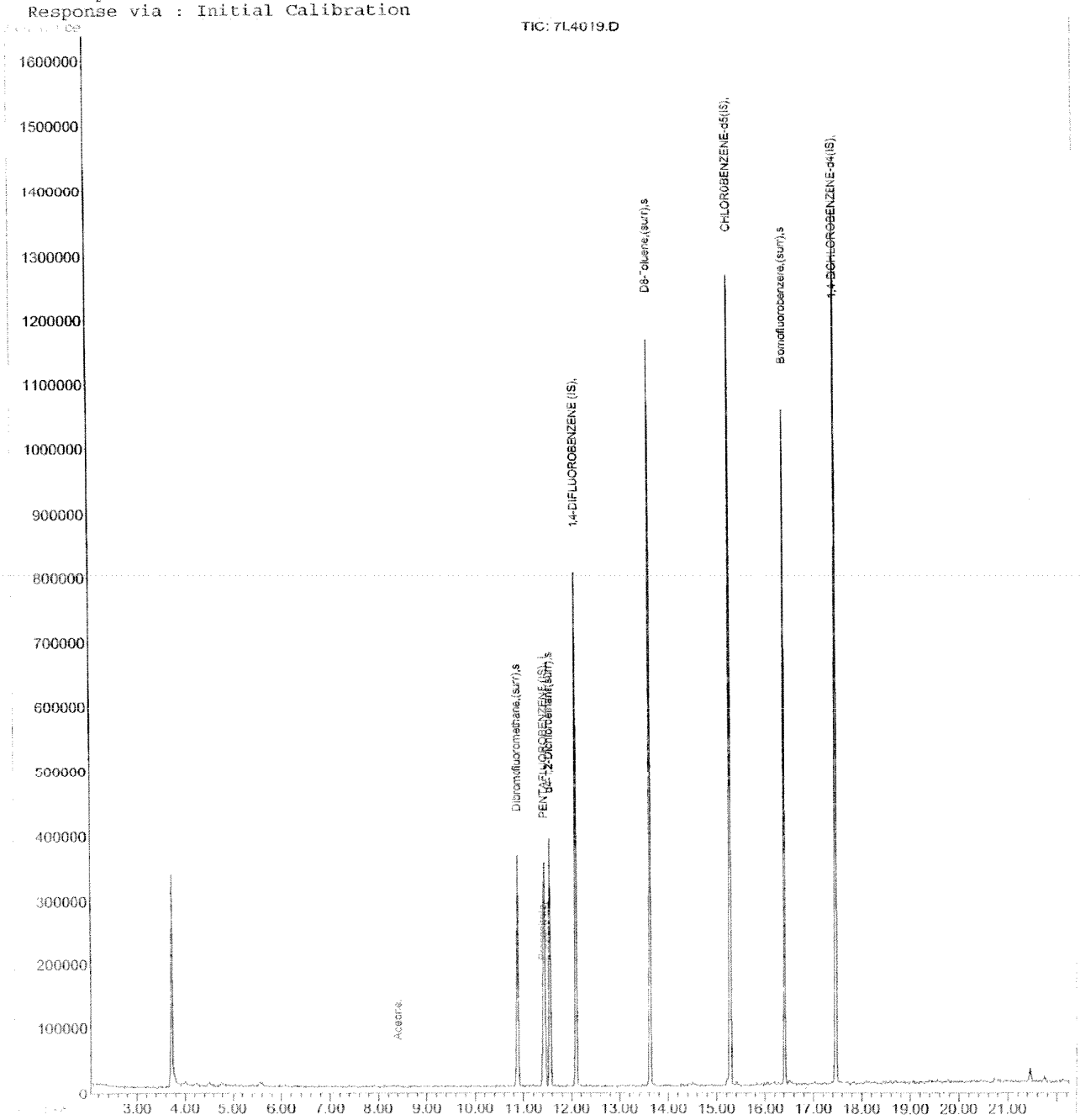
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) 1,2-Dichloropropane	0.00	63		N.D.	
46) Methyl methacrylate	0.00	69		N.D.	
47) 1,4-Dioxane	12.87	88	180	-1.59 ug/L	77
48) Dibromomethane	0.00	93		N.D.	
49) Bromodichloromethane	0.00	83		N.D.	
50) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
51) C-1,3-Dichloropropene	0.00	75		N.D.	
52) 4-Methyl-2-pentanone	0.00	100		N.D. d	
53) D8-Toluene	13.62	98	817252	50.68 ug/L	98
56) Toluene	0.00	92		N.D.	
57) T-1,3-Dichloropropene	0.00	75		N.D.	
58) Ethyl methacrylate	0.00	69		N.D.	
59) 1,1,2-Trichloroethane	0.00	97		N.D.	
60) 1,3-Dichloropropane	0.00	76		N.D.	
61) Tetrachloroethene	0.00	164		N.D. d	
62) 2-Hexanone	0.00	43		N.D.	
63) Dibromochloromethane	0.00	129		N.D.	
64) 1,2-Dibromoethane	0.00	107		N.D.	
65) Chlorobenzene	0.00	112		N.D.	
66) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
67) Ethylbenzene	0.00	106		N.D.	
68) m-xylene & p-xylene	0.00	106		N.D.	
69) O-Xylene	0.00	106		N.D.	
70) Styrene	0.00	104		N.D.	
71) Bromoform	0.00	173		N.D. d	
72) Isopropylbenzene	0.00	105		N.D.	
73) C-1,4-Dichloro-2-butene	16.42	53	389	-2.30 ug/L #	1
74) Bromofluorobenzene	16.40	95	365284	49.92 ug/L #	84
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
77) Bromobenzene	0.00	156		N.D. d	
78) 1,2,3-Trichloropropane	0.00	75		N.D.	
79) T-1,4-Dichloro-2-Butene	0.00	53		N.D.	
80) n-Propylbenzene	0.00	91		N.D.	
82) 2-Chlorotoluene	0.00	91		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
84) 4-Chlorotoluene	0.00	91		N.D.	
85) tert-Butylbenzene	0.00	119		N.D.	
86) Pentachloroethane	0.00	167		No Calib #	
87) 1,2,4-Trimethylbenzene	0.00	105		N.D.	
88) s-Butylbenzene	0.00	105		N.D.	
89) 1,3-Dichlorobenzene	0.00	146		N.D.	
90) p-Isopropyltoluene	0.00	119		N.D.	
91) 1,4-Dichlorobenzene	0.00	146		N.D.	
92) n-Butylbenzene	0.00	91		N.D.	
93) 1,2-Dichlorobenzene	0.00	146		N.D.	
94) DBCP	0.00	157		N.D. d	
95) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
96) Hexachlorobutadiene	0.00	225		N.D.	
97) Naphthalene	0.00	128		N.D.	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4019.D Vial: 19
Acq On : 4 Dec 2006 19:13 Operator: jdb
Sample : b610171-02 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:14 2006 Quant Results File: 8260W6L1.RES

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4019.D Vial: 19
Acq On : 4 Dec 2006 19:13 Operator: jdb
Sample : b610171-02 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: lscint.p

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library : C:\DATABASE\NBS75K.L

****
Peak Number 1 Naphthalene, 1-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.45	0.71 ug/L	30906	1,4-DICHLOROBENZENE-d4(IS)	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	87
2	1,4-Methanonaphthalene, 1,4-dihydro	142	C11H10	004453-90-1	72
3	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	70
4	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	70
5	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	70

Tentatively Identified Compound (LSC) summary

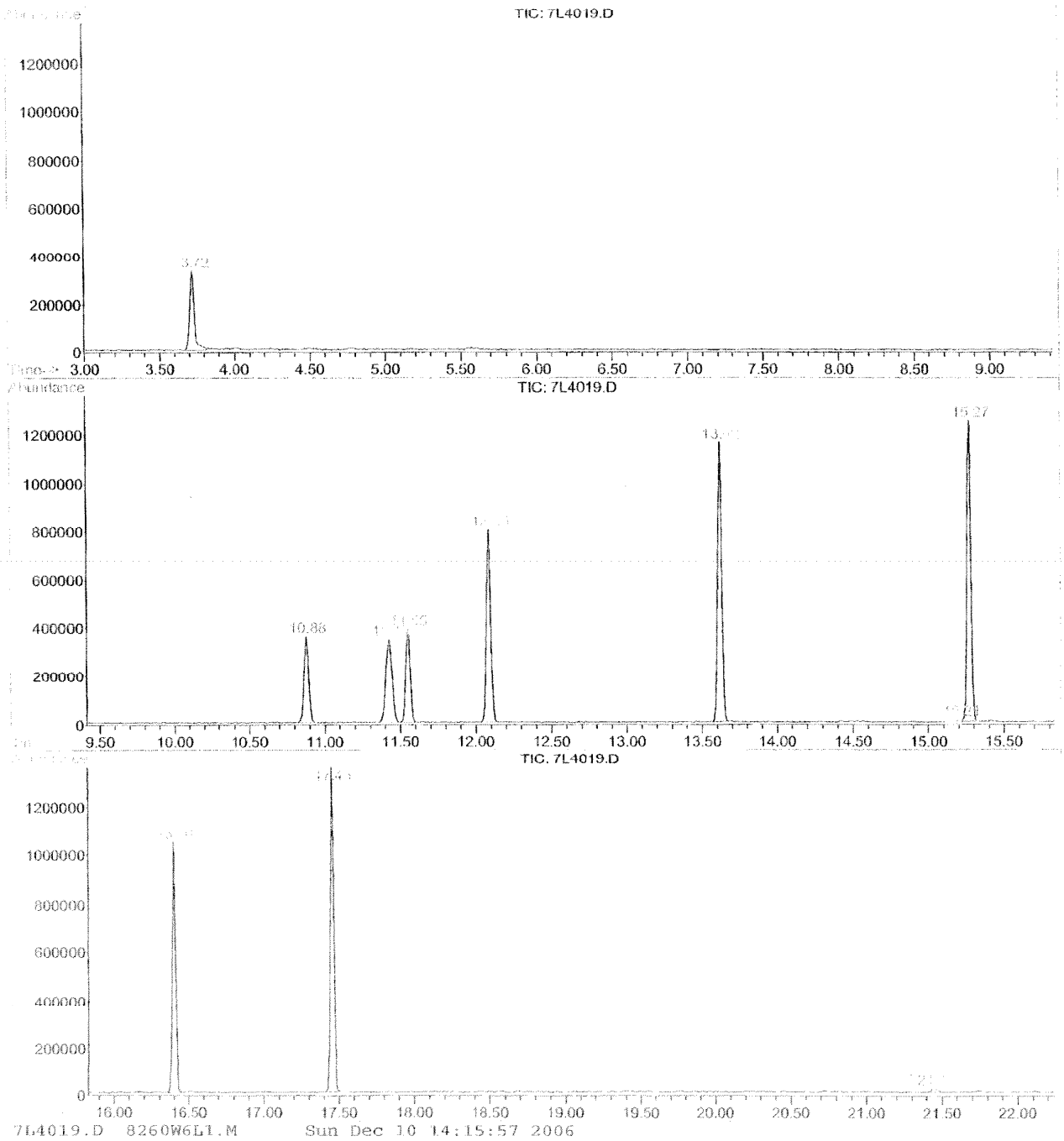
Operator ID: jdb Date Acquired: 4 Dec 2006 19:13
Data File: C:\HPCHEM\1\DATA\20067L4\7L4019.D
Name: b610171-02
Misc:
Method: C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title. VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Naphthalene, 1-methy	21.45	0.7	ug/L	30906	ISTD04	17.45	2187540	50.0

7L4019.D 8260W6L1.M Sun Dec 10 14:15:57 2006

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\20067L4\7L4019.D
Operator : jdb
Acquired : 4 Dec 2006 19:13 using AcqMethod 8260W6L1
Instrument : JVGCMS1
Sample Name: b610171-02
Misc Info :
Vial Number: 19
Quant File :8260W6L1.RES (RTE Integrator)



7L4019.D 8260W6L1.M Sun Dec 10 14:15:57 2006

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4019.D
Acq On : 4 Dec 2006 19:13
Sample : b610171-02
Misc :
MS Integration Params: lscint.p

Vial: 19
Operator: jdb
Inst : JVGCMS1
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Smoothing : ON
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 100 Area counts
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.716	164	171	181	rBV	330796	750471	32.50%	5.637%
2	10.876	891	897	905	rBV	356838	740977	32.09%	5.565%
3	11.428	945	953	960	rVB	345633	991902	42.95%	7.450%
4	11.546	960	965	973	rBV	384398	815125	35.30%	6.122%
5	12.089	1014	1020	1026	rBV	795320	1592616	68.96%	11.962%
6	13.617	1170	1175	1182	rVB	1157211	2309337	100.00%	17.345%
7	15.205	1333	1336	1338	rBV4	10777	23692	1.03%	0.178%
8	15.274	1338	1343	1347	rVB	1252353	2220524	96.15%	16.678%
9	16.398	1453	1457	1463	rVB	1045702	1630844	70.62%	12.249%
10	17.454	1560	1564	1571	rVB	1349385	2187544	94.73%	16.430%
11	21.448	1965	1969	1974	rVB3	22282	51385	2.23%	0.386%

Sum of corrected areas: 13314417

7L4019.D 8260W6L1.M Sun Dec 10 14:15:57 2006

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4020.D
Acq On : 4 Dec 2006 19:43
Sample : b610171-03
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:15 2006

Vial: 20
Operator: jdb
Inst : JVGCMS1
Multiplr: 1.00

Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) PENTAFLUOROBENZENE (IS)	11.42	168	272196	50.00 ug/L	-0.02
38) 1,4-DIFLUOROBENZENE (IS)	12.09	114	629743	50.00 ug/L	0.00
55) CHLOROBENZENE-d5(IS)	15.27	117	660431	50.00 ug/L	-0.02
81) 1,4-DICHLOROBENZENE-d4(IS)	17.46	152	292989	50.00 ug/L	0.00
System Monitoring Compounds					
34) Dibromofluoromethane (surr	10.88	113	223262	49.53 ug/L	0.00
Spiked Amount 50.000 Range 71 - 136			Recovery = 99.06%		
41) d4-1,2-Dichloroethane(surr	11.55	65	282302	46.97 µg/L	-0.02
Spiked Amount 50.000 Range 70 - 130			Recovery = 93.94%		
54) D8-Toluene (surr)	13.62	98	819441	49.84 ug/L	0.00
Spiked Amount 50.000 Range 75 - 126			Recovery = 99.68%		
75) Bromofluorobenzene (surr)	16.40	95	365323m	49.23 ug/L	0.00
Spiked Amount 50.000 Range 76 - 120			Recovery = 98.46%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.	
3) Chloromethane	0.00	50		N.D.	
4) Vinyl Chloride	0.00	62		N.D.	
5) Bromomethane	5.57	94	271	-5.17 ug/L #	2
6) Chloroethane	0.00	64		N.D. d	
7) Trichlorofluoromethane	0.00	101		N.D.	
8) Ethanol	6.91	45	199	-63.18 ug/L	73
9) 1,2-Dichloro-1,1,2-triflur	0.00	117		No Calib #	
10) acrolein	0.00	56		N.D. d	
11) 1,1,2Trichloro-1,2,2triflu	0.00	151		N.D.	
12) 1,1-Dichloroethene	0.00	96		N.D.	
13) Acetone	8.38	43	3346	2.21 ug/L	97
14) Iodomethane	0.00	142		N.D. d	
15) Carbon disulfide	0.00	76		N.D.	
16) Acetonitrile	0.00	41		N.D. d	
17) 3-chloropropene	0.00	41		N.D.	
18) Methylene Chloride	8.32	84	1167	-1.30 ug/L #	10
19) Acrylonitrile	0.00	53		N.D.	
20) Methyl tert-butyl ether	0.00	73		N.D.	
21) t-1,2-Dichloroethene	0.00	96		N.D.	
22) 1,1-Dichloroethane	0.00	63		N.D.	
23) Vinyl Acetate	9.88	43	501	-20.61 ug/L #	1
24) Isopropyl ether	0.00	45		N.D.	
25) Chloroprene	0.00	88		N.D.	
26) 2-Butanone	0.00	72		N.D. d	
27) c-1,2-Dichloroethene	0.00	96		N.D.	
28) 2,2-Dichloropropane	0.00	77		N.D.	
29) Propionitrile	0.00	54		N.D.	
30) Methacrylonitrile	0.00	41		N.D.	
31) Bromochloromethane	0.00	128		N.D.	
32) Chloroform	0.00	83		N.D.	
33) Dibromofluoromethane	10.88	113	223262	49.53 ug/L	84
35) 1,1,1-Trichloroethane	0.00	97		N.D.	
36) 1,1-Dichloropropene	0.00	75		N.D.	
37) Isobutyl alcohol	0.00	43		N.D. d	
39) Carbon Tetrachloride	0.00	117		N.D. d	
40) d4-1,2-Dichloroethane	11.55	65	282302	46.97 µg/L #	80
42) 1,2-Dichloroethane	0.00	62		N.D.	
43) Benzene	0.00	78		N.D.	
44) Trichloroethene	0.00	130		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4020.D Vial: 20
Acq On : 4 Dec 2006 19:43 Operator: jdb
Sample : b610171-03 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:15 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) 1,2-Dichloropropane	0.00	63		N.D.	
46) Methyl methacrylate	0.00	69		N.D.	
47) 1,4-Dioxane	12.88	88	177	-1.75 ug/L #	1
48) Dibromomethane	0.00	93		N.D.	
49) Bromodichloromethane	0.00	83		N.D.	
50) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
51) C-1,3-Dichloropropene	0.00	75		N.D.	
52) 4-Methyl-2-pentanone	0.00	100		N.D. d	
53) D8-Toluene	13.62	98	819441	49.84 ug/L	99
56) Toluene	0.00	92		N.D.	
57) T-1,3-Dichloropropene	0.00	75		N.D.	
58) Ethyl methacrylate	0.00	69		N.D.	
59) 1,1,2-Trichloroethane	0.00	97		N.D.	
60) 1,3-Dichloropropane	0.00	76		N.D.	
61) Tetrachloroethene	0.00	164		N.D.	
62) 2-Hexanone	0.00	43		N.D.	
63) Dibromochloromethane	0.00	129		N.D.	
64) 1,2-Dibromoethane	0.00	107		N.D.	
65) Chlorobenzene	0.00	112		N.D.	
66) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
67) Ethylbenzene	0.00	106		N.D.	
68) m-xylene & p-xylene	0.00	106		N.D.	
69) O-Xylene	0.00	106		N.D.	
70) Styrene	0.00	104		N.D.	
71) Bromoform	0.00	173		N.D. d	
72) Isopropylbenzene	0.00	105		N.D.	
73) C-1,4-Dichloro-2-butene	16.41	53	304	-2.35 ug/L #	1
74) Bromofluorobenzene	16.40	95	365323m	49.23 ug/L	94
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
77) Bromobenzene	0.00	156		N.D.	
78) 1,2,3-Trichloropropane	0.00	75		N.D.	
79) T-1,4-Dichloro-2-Butene	0.00	53		N.D.	
80) n-Propylbenzene	0.00	91		N.D.	
82) 2-Chlorotoluene	0.00	91		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
84) 4-Chlorotoluene	0.00	91		N.D.	
85) tert-Butylbenzene	0.00	119		N.D.	
86) Pentachloroethane	0.00	167		No Calib #	
87) 1,2,4-Trimethylbenzene	0.00	105		N.D.	
88) s-Butylbenzene	0.00	105		N.D.	
89) 1,3-Dichlorobenzene	0.00	146		N.D.	
90) p-Isopropyltoluene	0.00	119		N.D.	
91) 1,4-Dichlorobenzene	0.00	146		N.D.	
92) n-Butylbenzene	0.00	91		N.D.	
93) 1,2-Dichlorobenzene	0.00	146		N.D.	
94) DBCP	0.00	157		N.D.	
95) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
96) Hexachlorobutadiene	0.00	225		N.D. d	
97) Naphthalene	0.00	128		N.D.	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D.	

(#) = qualifier out of range (m) = manual integration

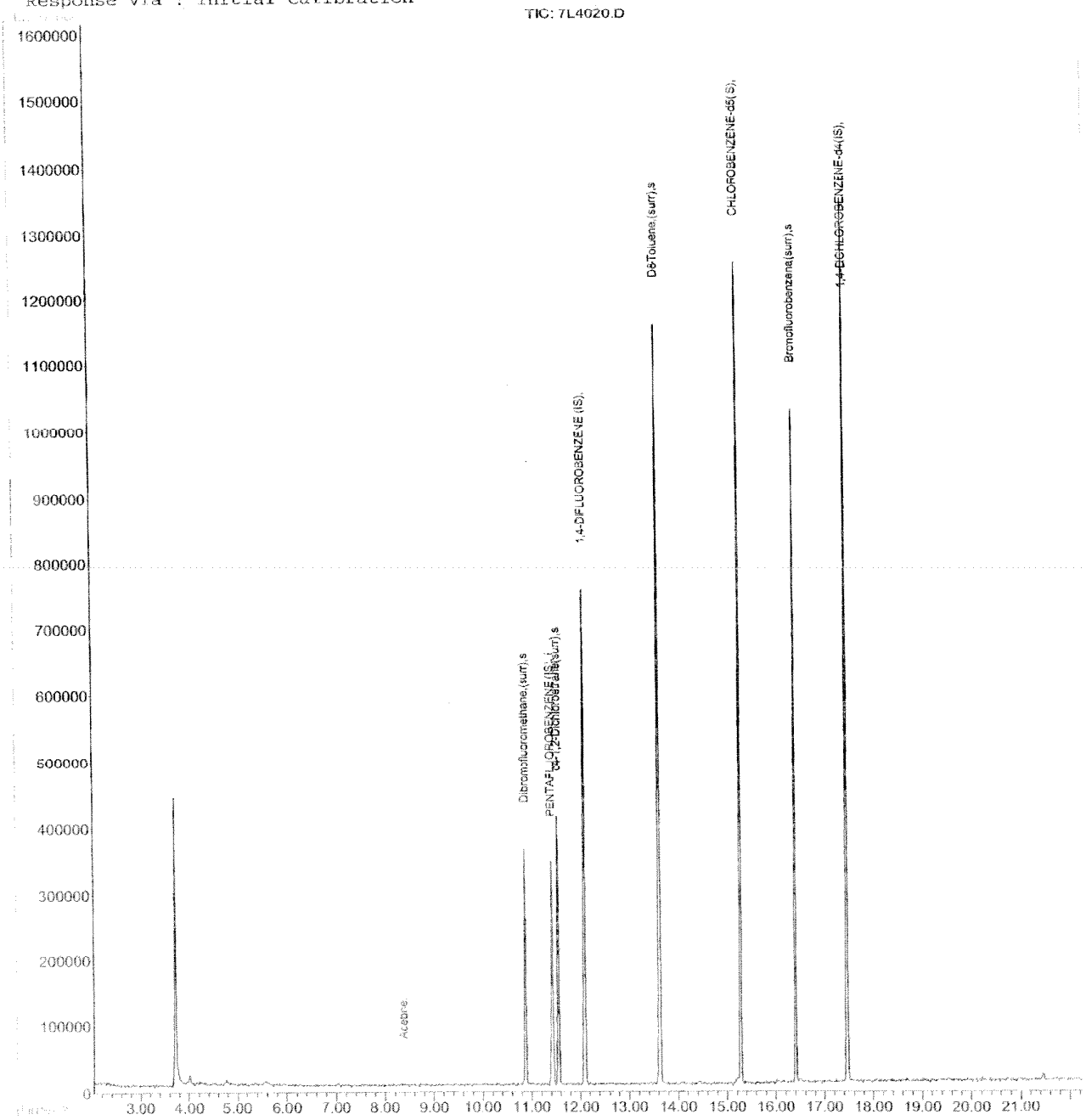
Quantitation Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4020.D
Acq On : 4 Dec 2006 19:43
Sample : b610171-03
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:15 2006

Vial: 20
Operator: jdb
Inst : JVGCMS1
Multiplr: 1.00

Quant Results File: 8260W6L1.RES

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4020.D Vial: 20
Acq On : 4 Dec 2006 19:43 Operator: jdb
Sample : b610171-03 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: lscint.p

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library : C:\DATABASE\NBS75K.L

****
Peak Number 1 unknown1 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.00	1.27 ug/L	25566	PENTAFLUOROBENZENE (IS)	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Butyn-2-ol, 2-methyl-	84	C5H8O	000115-19-5	37
2	1-Hexyn-3-ol, 3,5-dimethyl	126	C8H14O	000107-54-0	25
3	2-Propenoic acid, 2-methyl-, 1,2-et	198	C10H14O4	000097-90-5	25
4	3-Butyn-2-ol, 2-methyl-	84	C5H8O	000115-19-5	25
5	3-Butyn-2-ol, 2-methyl-	84	C5H8O	000115-19-5	9

****
Peak Number 2 unknown2 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.78	1.19 ug/L	23998	PENTAFLUOROBENZENE (IS)	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Epinephrine	183	C9H13NO3	000051-43-4	53
2	Amidephrine	244	C10H16N2O3S	003354-67-4	36
3	Methanesulfinic acid, trifluoro-, t	206	C4H9F3O2SSi	051735-75-2	36
4	7,9-Dihydroxy-5-methoxy-2-methyl-1,	284	C16H12O5	084542-43-8	27
5	Ethyl isopropyl dimethylphosphorami	195	C7H18NO3P	000000-00-0	23

Tentatively Identified Compound (LSC) summary

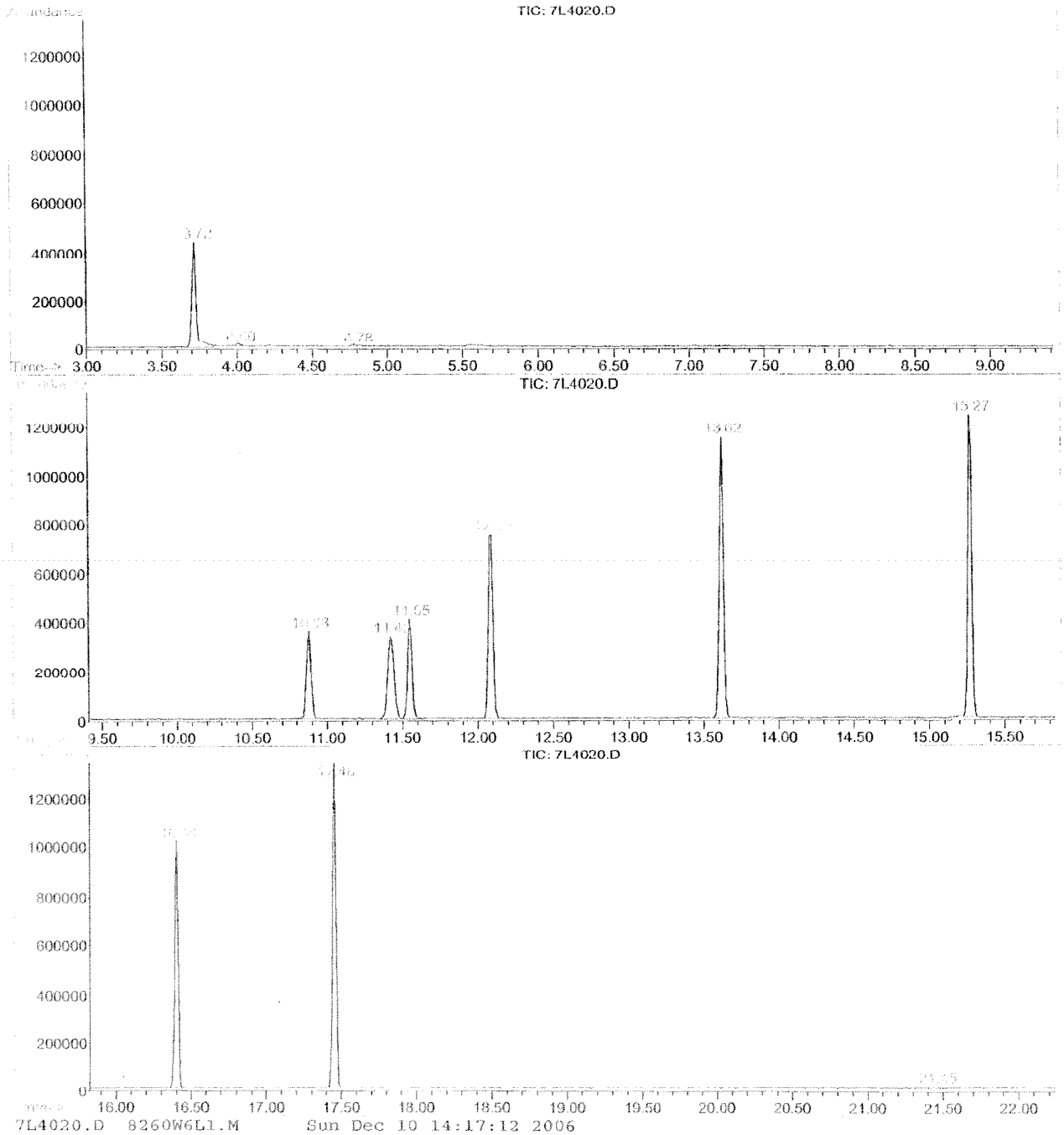
Operator ID: jdb Date Acquired: 4 Dec 2006 19:43
Data File: C:\HPCHEM\1\DATA\20067L4\7L4020.D
Name: b610171-03
Misc:
Method: C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title: VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
unknown1	4.00	1.3	ug/L	25566	ISTD01	11.42	1005320	50.0
unknown2	4.78	1.2	ug/L	23998	ISTD01	11.42	1005320	50.0

7L4020.D 8260W6L1.M Sun Dec 10 14:17:12 2006

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\20067L4\7L4020.D
Operator : jdb
Acquired : 4 Dec 2006 19:43 using AcqMethod 8260W6L1
Instrument : JVGCMS1
Sample Name: b610171-03
Misc Info :
Vial Number: 20
Quant File :8260W6L1.RES (RTE Integrator)



7L4020.D 8260W6L1.M Sun Dec 10 14:17:12 2006

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4020.D Vial: 20
Acq On : 4 Dec 2006 19:43 Operator: jdb
Sample : b610171-03 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.718	165	171	184	rBV	436899	940448	40.52%	6.951%
2	4.004	198	200	205	rVB	13731	25566	1.10%	0.189%
3	4.784	271	279	281	rBV5	7704	25877	1.11%	0.191%
4	10.878	891	897	902	rBV	357110	743735	32.04%	5.497%
5	11.421	945	952	960	rBV	338515	1005319	43.31%	7.430%
6	11.549	960	965	974	rBV	407204	828244	35.68%	6.121%
7	12.092	1014	1020	1025	rBV	748805	1601660	69.00%	11.837%
8	13.620	1167	1175	1181	rBV	1150088	2321116	100.00%	17.155%
9	15.267	1338	1342	1347	rVB	1241015	2199592	94.76%	16.257%
10	16.401	1452	1457	1461	rBV	1018955	1640385	70.67%	12.124%
11	17.457	1560	1564	1568	rBV	1329575	2166919	93.36%	16.015%
12	21.451	1964	1969	1975	rVB6	11437	31606	1.36%	0.234%

Sum of corrected areas: 13530467

7L4020.D 8260W6L1.M Sun Dec 10 14:17:11 2006

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4021.D Vial: 21
Acq On : 4 Dec 2006 20:14 Operator: jdb
Sample : b610171-04 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:18 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) PENTAFLUOROBENZENE (IS)	11.43	168	264795	50.00 ug/L	0.00
38) 1,4-DIFLUOROBENZENE (IS)	12.09	114	623516	50.00 ug/L	0.00
55) CHLOROBENZENE-d5(IS)	15.27	117	660141	50.00 ug/L	-0.02
81) 1,4-DICHLOROBENZENE-d4(IS)	17.46	152	290451	50.00 ug/L	0.00
System Monitoring Compounds					
34) Dibromofluoromethane (surr	10.88	113	220662	50.32 ug/L	0.00
Spiked Amount 50.000 Range 71 - 136 Recovery = 100.64%					
41) d4-1,2-Dichloroethane(surr	11.55	65	281212	47.26 µg/L	-0.02
Spiked Amount 50.000 Range 70 - 130 Recovery = 94.52%					
54) D8-Toluene (surr)	13.62	98	795330	48.85 ug/L	0.00
Spiked Amount 50.000 Range 75 - 126 Recovery = 97.70%					
75) Bromofluorobenzene (surr)	16.40	95	357024	48.14 ug/L	0.00
Spiked Amount 50.000 Range 76 - 120 Recovery = 96.28%					

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.	
3) Chloromethane	0.00	50		N.D.	
4) Vinyl Chloride	0.00	62		N.D.	
5) Bromomethane	5.59	94	1009	-4.85 ug/L #	28
6) Chloroethane	0.00	64		N.D. d	
7) Trichlorofluoromethane	0.00	101		N.D.	
8) Ethanol	0.00	45		N.D. d	
9) 1,2-Dichloro-1,1,2-triflur	0.00	117		No Calib #	
10) acrolein	0.00	56		N.D. d	
11) 1,1,2Trichloro-1,2,2triflu	0.00	151		N.D.	
12) 1,1-Dichloroethene	0.00	96		N.D.	
13) Acetone	8.37	43	5510	3.73 ug/L	96
14) Iodomethane	0.00	142		N.D. d	
15) Carbon disulfide	0.00	76		N.D.	
16) Acetonitrile	0.00	41		N.D. d	
17) 3-chloropropene	0.00	41		N.D.	
18) Methylene Chloride	8.29	84	617	-1.42 ug/L #	1
19) Acrylonitrile	0.00	53		N.D.	
20) Methyl tert-butyl ether	0.00	73		N.D.	
21) t-1,2-Dichloroethene	0.00	96		N.D.	
22) 1,1-Dichloroethane	0.00	63		N.D.	
23) Vinyl Acetate	9.89	43	261	-20.64 ug/L #	3
24) Isopropyl ether	0.00	45		N.D.	
25) Chloroprene	0.00	88		N.D.	
26) 2-Butanone	0.00	72		N.D. d	
27) c-1,2-Dichloroethene	0.00	96		N.D.	
28) 2,2-Dichloropropane	0.00	77		N.D.	
29) Propionitrile	0.00	54		N.D. d	
30) Methacrylonitrile	0.00	41		N.D.	
31) Bromochloromethane	0.00	128		N.D.	
32) Chloroform	0.00	83		N.D.	
33) Dibromofluoromethane	10.88	113	220662	50.32 ug/L	80
35) 1,1,1-Trichloroethane	0.00	97		N.D.	
36) 1,1-Dichloropropene	0.00	75		N.D.	
37) Isobutyl alcohol	0.00	43		N.D. d	
39) Carbon Tetrachloride	0.00	117		N.D. d	
40) d4-1,2-Dichloroethane	11.55	65	281212	47.26 µg/L #	81
42) 1,2-Dichloroethane	0.00	62		N.D.	
43) Benzene	0.00	78		N.D.	
44) Trichloroethene	0.00	130		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4021.D Vial: 21
Acq On : 4 Dec 2006 20:14 Operator: jdb
Sample : b610171-04 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:18 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

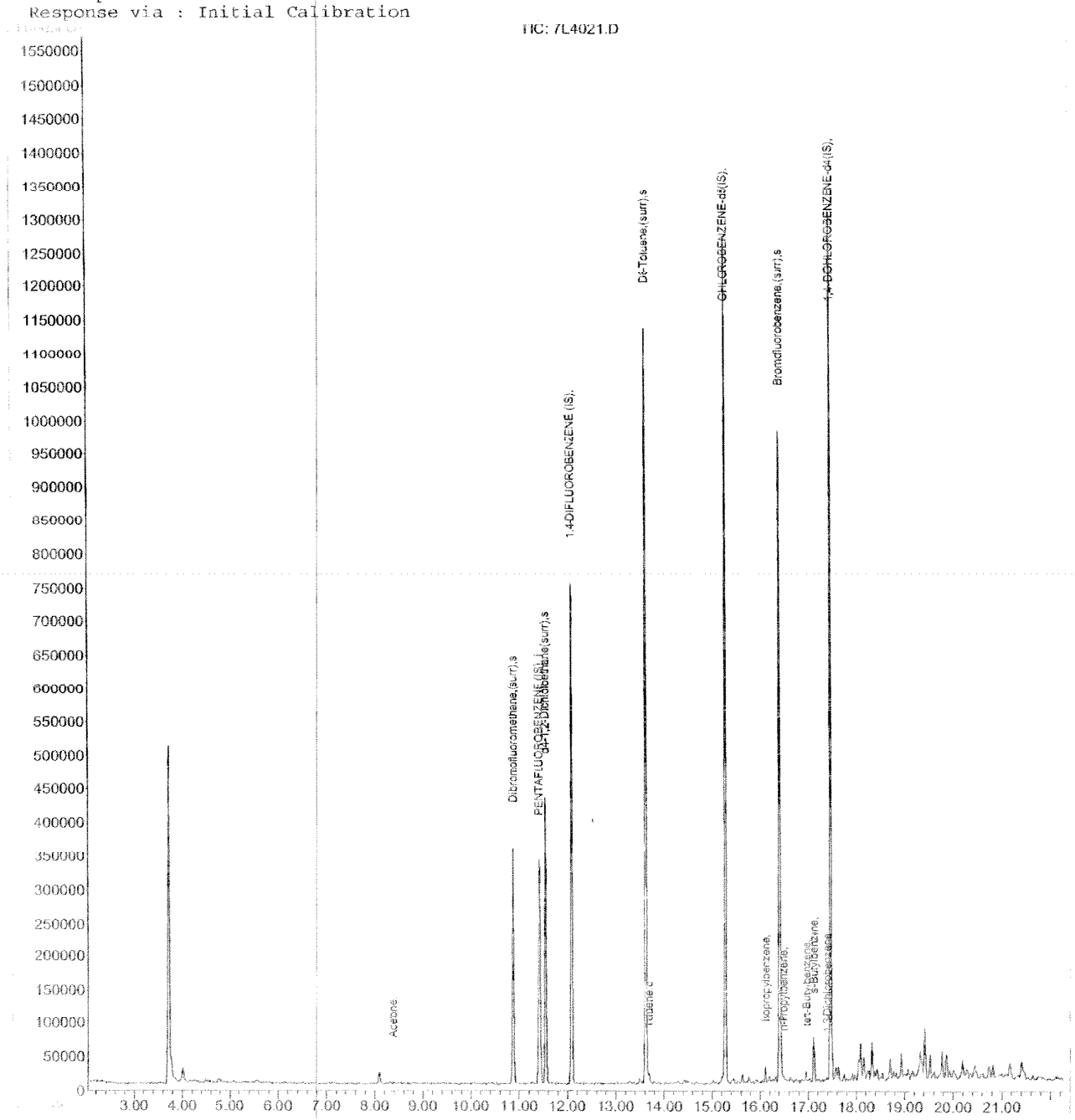
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) 1,2-Dichloropropane	0.00	63		N.D.	
46) Methyl methacrylate	0.00	69		N.D.	
47) 1,4-Dioxane	0.00	88		N.D. d	
48) Dibromomethane	0.00	93		N.D.	
49) Bromodichloromethane	0.00	83		N.D.	
50) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
51) C-1,3-Dichloropropene	0.00	75		N.D.	
52) 4-Methyl-2-pentanone	0.00	100		N.D. d	
53) D8-Toluene	13.62	98	795330	48.85 ug/L	97
56) Toluene	13.68	92	4635	0.46 ug/L	97
57) T-1,3-Dichloropropene	0.00	75		N.D.	
58) Ethyl methacrylate	0.00	69		N.D.	
59) 1,1,2-Trichloroethane	0.00	97		N.D.	
60) 1,3-Dichloropropane	0.00	76		N.D.	
61) Tetrachloroethene	0.00	164		N.D. d	
62) 2-Hexanone	0.00	43		N.D.	
63) Dibromochloromethane	0.00	129		N.D.	
64) 1,2-Dibromoethane	0.00	107		N.D.	
65) Chlorobenzene	0.00	112		N.D.	
66) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
67) Ethylbenzene	0.00	106		N.D.	
68) m-xylene & p-xylene	0.00	106		N.D.	
69) O-Xylene	0.00	106		N.D.	
70) Styrene	0.00	104		N.D.	
71) Bromoform	0.00	173		N.D. d	
72) Isopropylbenzene	16.11	105	14180	1.03 ug/L	98
73) C-1,4-Dichloro-2-butene	16.42	53	1694	-1.55 ug/L #	1
74) Bromofluorobenzene	16.40	95	357024	48.14 ug/L #	82
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
77) Bromobenzene	0.00	156		N.D.	
78) 1,2,3-Trichloropropane	0.00	75		N.D.	
79) T-1,4-Dichloro-2-Butene	0.00	53		N.D.	
80) n-Propylbenzene	16.48	91	5200	0.25 ug/L	94
82) 2-Chlorotoluene	0.00	91		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
84) 4-Chlorotoluene	0.00	91		N.D.	
85) tert-Butylbenzene	16.95	119	6311	0.67 ug/L	92
86) Pentachloroethane	0.00	167		No Calib #	
87) 1,2,4-Trimethylbenzene	0.00	105		N.D.	
88) s-Butylbenzene	17.12	105	29174	1.90 ug/L	81
89) 1,3-Dichlorobenzene	17.39	146	2292	0.34 ug/L	95
90) p-Isopropyltoluene	0.00	119		N.D.	
91) 1,4-Dichlorobenzene	0.00	146		N.D.	
92) n-Butylbenzene	0.00	91		N.D. d	
93) 1,2-Dichlorobenzene	0.00	146		N.D.	
94) DBCP	0.00	157		N.D. d	
95) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
96) Hexachlorobutadiene	0.00	225		N.D. d	
97) Naphthalene	0.00	128		N.D. d	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4021.D Vial: 21
Acq On : 4 Dec 2006 20:14 Operator: jdb
Sample : b610171-04 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:18 2006 Quant Results File: 8260W6L1.RES

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4021.D Vial: 21
Acq On : 4 Dec 2006 20:14 Operator: jdb
Sample : b610171-04 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: lscint.p

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 unknown1 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.78	2.86 ug/L	56086	PENTAFLUOROBENZENE (IS)	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propene, hexafluoro-	150	C3F6	000116-15-4	64
2	Propene, hexafluoro-	150	C3F6	000116-15-4	64
3	2-Butenoic acid, methyl ester, (Z)-	100	C5H8O2	004358-59-2	27
4	Butanal, heptafluoro-	198	C4HF7O	000375-02-0	25
5	Butane, 1,1-dichloro-3-methyl-	140	C5H10Cl2	000625-66-1	9

****

Peak Number 2 unknown2 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.01	2.31 ug/L	45287	PENTAFLUOROBENZENE (IS)	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-1,2,4-Triazole	69	C2H3N3	000288-88-0	7
2	1H-1,2,4-Triazole	69	C2H3N3	000288-88-0	4
3	1H-1,2,3-Triazole	69	C2H3N3	000288-36-8	4
4	3-Methyl-6-hepten-1-yn-3-ol	124	C8H12O	051193-99-8	4
5	Geranyl nitrile	149	C10H15N	101660-61-1	3

****

Peak Number 3 unknown3 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.09	2.24 ug/L	43970	PENTAFLUOROBENZENE (IS)	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(R)-(-)-2-Pentanol	88	C5H12O	031087-44-2	39
2	Isopropyl Alcohol	60	C3H8O	000067-63-0	9
3	Propylene Glycol	76	C3H8O2	000057-55-6	9
4	Propane, 2-ethoxy-	88	C5H12O	000625-54-7	9
5	2-Pentanol, 4-methyl-	102	C6H14O	000108-11-2	9

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4021.D
Acq On : 4 Dec 2006 20:14
Sample : b610171-04
Misc :
MS Integration Params: lscint.p

Vial: 21
Operator: jdb
Inst : JVGCMS1
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library : C:\DATABASE\NBS75K.L

****
Peak Number 4 Benzene, 1-ethenyl-3-ethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.09	2.23 ug/L	99540	1,4-DICHLOROBENZENE-d4(IS)	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	76
2	Benzene, 1-methyl 2-(2-propenyl)-	132	C10H12	001587-04-8	72
3	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	72
4	(E)-1-Phenyl-1-butene	132	C10H12	001005-64-7	68
5	Benzene, 2-butenyl-	132	C10H12	001560-06-1	64

****
Peak Number 5 1H-Indene, 2,3-dihydro-1,3-dim Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.31	1.73 ug/L	77348	1,4-DICHLOROBENZENE-d4(IS)	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H Indene, 2,3-dihydro-1,3-dimethyl	146	C11H14	004175-53-5	87
2	1H-Indene, 2,3-dihydro-1,1-dimethyl	146	C11H14	004912-92-9	80
3	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	59
4	Naphthalene, 1,2,3,4-tetrahydro-1-m	146	C11H14	001559-81-5	56
5	Naphthalene, 5-ethyl-1,2,3,4-tetrah	160	C12H16	042775-75-7	56

****
Peak Number 6 1H-Indene, 2,3-dihydro-1,3-dim Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.41	3.71 ug/L	165905	1,4-DICHLOROBENZENE-d4(IS)	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-1,3-dimethyl	146	C11H14	004175-53-5	78
2	1H-Indene, 2,3-dihydro-4,7-dimethyl	146	C11H14	006682-71-9	62
3	Naphthalene, 1,2,3,4-tetrahydro-1-m	146	C11H14	001559-81-5	58
4	Naphthalene, 1,2,3,4-tetrahydro-1-o	244	C18H28	029138-91-8	53
5	1H-Indene, 2,3-dihydro-1,6-dimethyl	146	C11H14	017059-48-2	52

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4021.D Vial: 21
Acq On : 4 Dec 2006 20:14 Operator: jdb
Sample : b610171-04 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: lscint.p

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library : C:\DATABASE\NBS75K.L

****
Peak Number 7 Benzene, 1-(2-butenyl)-2,3-dim Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.53	1.60 ug/L	71299	1,4-DICHLOROBENZENE-d4(IS)	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-(2-butenyl)-2,3-dimethyl	160	C12H16	054340-85-1	78
2	1H-Indene, 2,3-dihydro 1,1,5 trimet	160	C12H16	040650-41-7	78
3	Benzene, 4-(2-butenyl)-1,2-dimethyl	160	C12H16	054340-86-2	78
4	Benzene, 1-(1,1-dimethylethyl)-4-et	160	C12H16	001746-23-2	72
5	Benzene, 1-(1-methylethenyl)-4-(1-m	160	C12H16	002388-14-9	64

****
Peak Number 8 unknown4 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.76	1.70 ug/L	75972	1,4-DICHLOROBENZENE-d4(IS)	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-2-m	146	C11H14	003877-19-8	49
2	2(1H)-Naphthalenone, 3,4-dihydro-	146	C10H10O	000530-93-8	47
3	Azetidine, 1-chloro-2-phenyl-	167	C9H10ClN	030839-64-6	43
4	1H-Inden-2-ol, 2,3-dihydro-1-methox	164	C10H12O2	056175-44-1	43
5	2(1H)-Naphthalenone, 3,4-dihydro-	146	C10H10O	000530-93-8	42

****
Peak Number 9 unknown5 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.40	1.52 ug/L	67885	1,4-DICHLOROBENZENE-d4(IS)	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5H-Benzocycloheptene, 6,7-dihydro-	144	C11H12	007125-62-4	45
2	Borinic acid, diethyl-, trimethylsi	158	C7H19BOSi	074630-37-8	38
3	Benzene, 1-cyclohexen-1-yl-	158	C12H14	000771-98-2	37
4	Naphthalene, 1,2-dihydro-2-methyl-	144	C11H12	021564-79-4	33
5	Borinic acid, (2-cyclohexylidene-1,	308	C18H37BOSi	074810-48-3	28

Tentatively Identified Compound (LSC) summary

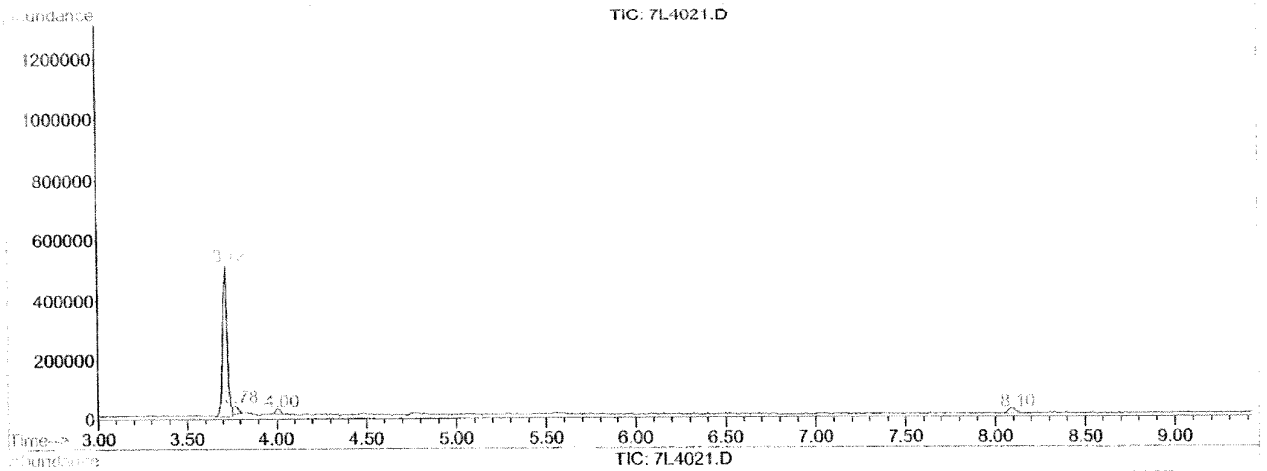
Operator ID: jdb Date Acquired: 4 Dec 2006 20:14
Data File: C:\HPCHEM\1\DATA\20067L4\7L4021.D
Name: b610171-04
Misc:
Method: C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title: VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library Searched: C:\DATABASE\NBS75K.L

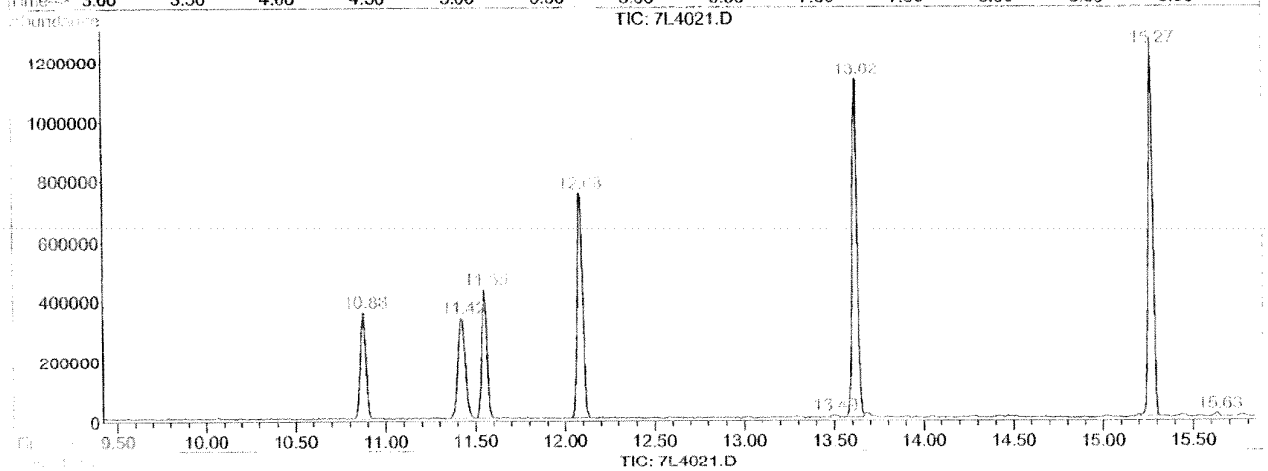
TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
unknown1	3.78	2.9	ug/L	56086	ISTD01	11.43	981411	50.0
unknown2	4.01	2.3	ug/L	45287	ISTD01	11.43	981411	50.0
unknown3	8.09	2.2	ug/L	43970	ISTD01	11.43	981411	50.0
Benzene, 1-ethenyl-3	18.09	2.2	ug/L	99540	ISTD04	17.46	2234400	50.0
1H-Indene, 2,3-dihyd	18.31	1.7	ug/L	77348	ISTD04	17.46	2234400	50.0
1H-Indene, 2,3-dihyd	19.41	3.7	ug/L	165905	ISTD04	17.46	2234400	50.0
Benzene, 1-(2-buteny	19.53	1.6	ug/L	71299	ISTD04	17.46	2234400	50.0
unknown4	19.76	1.7	ug/L	75972	ISTD04	17.46	2234400	50.0
unknown5	21.40	1.5	ug/L	67885	ISTD04	17.46	2234400	50.0

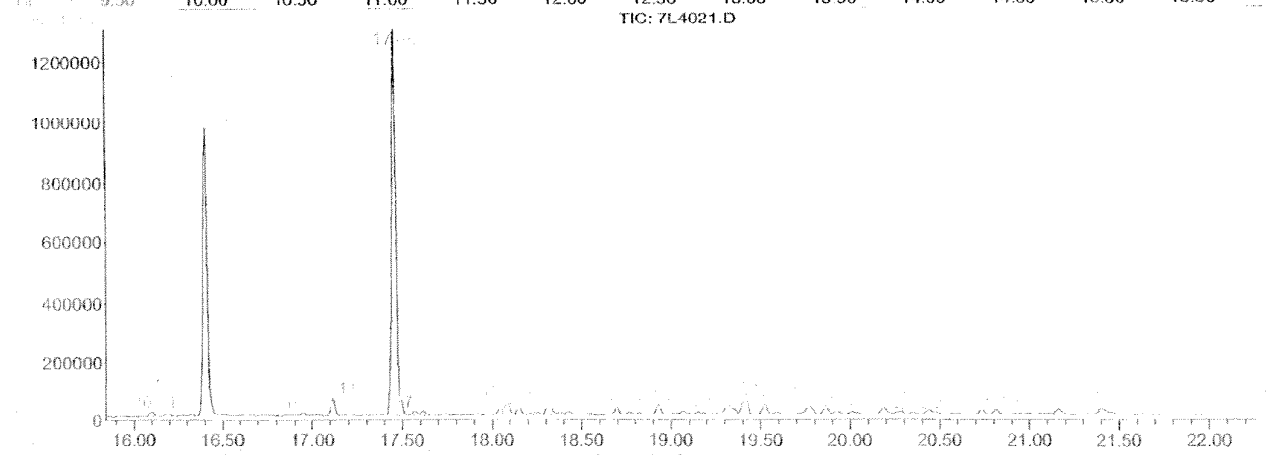
7L4021.D 8260W6L1.M Sun Dec 10 14:18:19 2006

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\20067L4\7L4021.D
Operator : jdb
Acquired : 4 Dec 2006 20:14 using AcqMethod 8260W6L1
Instrument : JVGCMS1
Sample Name: b610171-04
Misc Info :
Vial Number: 21
Quant File :8260W6L1.RES (RTE Integrator)







7L4021.D 8260W6L1.M Sun Dec 10 14:18:18 2006

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4021.D
Acq On : 4 Dec 2006 20:14
Sample : b610171-04
Misc :
MS Integration Params: lscint.p

Vial: 21
Operator: jdb
Inst : JVGCMS1
Multiplr: 1.00

Method . C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Smoothing : ON
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 100 Area counts
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.719	165	171	175	rBV	505965	1004496	44.28%	6.398%
2	3.778	175	177	181	rVB	31289	56086	2.47%	0.357%
3	4.005	194	200	204	rBV2	19584	45311	2.00%	0.289%
4	8.098	610	615	623	rVB2	18834	56450	2.49%	0.360%
5	10.879	891	897	903	rBV	353107	727707	32.08%	4.635%
6	11.421	944	952	960	rBV	334787	981411	43.27%	6.251%
7	11.549	960	965	971	rVV	426525	813982	35.89%	5.184%
8	12.082	1014	1019	1026	rBV	746659	1600468	70.56%	10.193%
9	13.492	1158	1162	1169	rBV7	9110	25895	1.14%	0.165%
10	13.620	1169	1175	1180	rBV	1127238	2268266	100.00%	14.446%
11	15.267	1336	1342	1347	rVB	1260951	2249286	99.16%	14.326%
12	15.632	1374	1379	1382	rVB5	12905	28181	1.24%	0.179%
13	16.106	1424	1427	1430	rBV2	22868	38194	1.68%	0.243%
14	16.402	1453	1457	1464	rVV	969759	1665110	73.41%	10.605%
15	16.954	1510	1513	1515	rVB3	13823	23022	1.01%	0.147%
16	17.112	1525	1529	1533	rBV	66908	111647	4.92%	0.711%
17	17.457	1560	1564	1571	rBV	1291884	2234399	98.51%	14.231%
18	17.565	1571	1575	1578	rVV4	19359	42346	1.87%	0.270%
19	17.615	1578	1580	1586	rVB3	21033	38699	1.71%	0.246%
20	18.049	1620	1624	1625	rVV3	32202	66649	2.94%	0.424%
21	18.088	1625	1628	1632	rVV2	54503	113407	5.00%	0.722%
22	18.147	1632	1634	1638	rVV3	34297	62714	2.76%	0.399%
23	18.226	1638	1642	1644	rVV4	13829	32821	1.45%	0.209%
24	18.315	1648	1651	1656	rVV3	55912	121956	5.38%	0.777%
25	18.374	1656	1657	1660	rVV3	13012	23109	1.02%	0.147%
26	18.423	1660	1662	1666	rVB5	16857	34712	1.53%	0.221%
27	18.542	1671	1674	1680	rVB4	12657	29722	1.31%	0.189%
28	18.700	1686	1690	1693	rBV	29541	51931	2.29%	0.331%
29	18.926	1710	1713	1716	rBV3	34700	61047	2.69%	0.389%
30	19.064	1725	1727	1732	rVB4	16248	41280	1.82%	0.263%
31	19.153	1732	1736	1738	rBV4	13436	25846	1.14%	0.165%
32	19.321	1745	1753	1758	rBV4	36024	117911	5.20%	0.751%
33	19.410	1758	1762	1766	rVB	73850	165905	7.31%	1.057%
34	19.528	1769	1774	1777	rVB	34675	71299	3.14%	0.454%
35	19.774	1790	1799	1804	rBV3	39775	113994	5.03%	0.726%
36	19.863	1804	1808	1811	rBV3	34023	67394	2.97%	0.429%
37	19.932	1811	1815	1818	rVB6	10634	25777	1.14%	0.164%
38	20.179	1833	1840	1846	rBV6	26467	73991	3.26%	0.471%
39	20.277	1846	1850	1854	rVB5	14356	36184	1.60%	0.230%
40	20.356	1854	1858	1861	rBV6	9044	23447	1.03%	0.149%
41	20.435	1861	1866	1874	rVB8	18794	66246	2.92%	0.422%
42	20.731	1892	1896	1900	rBV4	18654	45290	2.00%	0.288%
43	20.810	1900	1904	1908	rVV6	18164	37409	1.65%	0.238%
44	21.165	1936	1940	1949	rVB5	23930	73092	3.22%	0.466%

45	21.402	1960	1964	1974	rVB4	26040	107078	4.72%	0.682%

Sum of corrected areas: 15701167

7L4021.D 8260W6L1.M Sun Dec 10 14:18:17 2006

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4022.D
Acq On : 4 Dec 2006 20:45
Sample : b610171-05
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:20 2006

Vial: 22
Operator: jdb
Inst : JVGCMS1
Multiplr: 1.00

Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) PENTAFLUOROBENZENE (IS)	11.43	168	272962	50.00 ug/L	-0.01
38) 1,4-DIFLUOROBENZENE (IS)	12.09	114	633113	50.00 ug/L	-0.01
55) CHLOROBENZENE-d5(IS)	15.27	117	662315	50.00 ug/L	-0.01
81) 1,4-DICHLOROBENZENE-d4(IS)	17.45	152	292165	50.00 ug/L	-0.01
System Monitoring Compounds					
34) Dibromofluoromethane (surr	10.87	113	226853	50.19 ug/L	-0.01
Spiked Amount 50.000 Range 71 - 136			Recovery = 100.38%		
41) d4-1,2-Dichloroethane(surr	11.55	65	273833	45.32 µg/L	-0.01
Spiked Amount 50.000 Range 70 - 130			Recovery = 90.64%		
54) D8-Toluene (surr)	13.61	98	820180	49.62 ug/L	-0.01
Spiked Amount 50.000 Range 75 - 126			Recovery = 99.24%		
75) Bromofluorobenzene (surr)	16.40	95	368316	49.50 ug/L	-0.01
Spiked Amount 50.000 Range 76 - 120			Recovery = 99.00%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.	
3) Chloromethane	0.00	50		N.D.	
4) Vinyl Chloride	0.00	62		N.D.	
5) Bromomethane	5.54	94	801	-4.95 ug/L #	16
6) Chloroethane	0.00	64		N.D. d	
7) Trichlorofluoromethane	0.00	101		N.D.	
8) Ethanol	7.05	45	350	-59.46 ug/L #	1
9) 1,2-Dichloro-1,1,2-triflur	0.00	117		No Calib #	
10) acrolein	0.00	56		N.D. d	
11) 1,1,2Trichloro-1,2,2triflu	0.00	151		N.D.	
12) 1,1-Dichloroethene	0.00	96		N.D.	
13) Acetone	8.38	43	3809	2.50 ug/L	80
14) Iodomethane	0.00	142		N.D. d	
15) Carbon disulfide	7.36	76	3830	0.25 ug/L	79
16) Acetonitrile	0.00	41		N.D. d	
17) 3-chloropropene	0.00	41		N.D. d	
18) Methylene Chloride	8.32	84	1746	-1.18 ug/L #	38
19) Acrylonitrile	0.00	53		N.D.	
20) Methyl tert-butyl ether	0.00	73		N.D.	
21) t-1,2-Dichloroethene	0.00	96		N.D.	
22) 1,1-Dichloroethane	0.00	63		N.D.	
23) Vinyl Acetate	9.84	43	792	-20.57 ug/L #	76
24) Isopropyl ether	0.00	45		N.D.	
25) Chloroprene	0.00	88		N.D.	
26) 2-Butanone	0.00	72		N.D. d	
27) c-1,2-Dichloroethene	0.00	96		N.D.	
28) 2,2-Dichloropropane	0.00	77		N.D.	
29) Propionitrile	0.00	54		N.D. d	
30) Methacrylonitrile	0.00	41		N.D.	
31) Bromochloromethane	0.00	128		N.D.	
32) Chloroform	0.00	83		N.D.	
33) Dibromofluoromethane	10.87	113	226853	50.19 ug/L	82
35) 1,1,1-Trichloroethane	0.00	97		N.D.	
36) 1,1-Dichloropropene	0.00	75		N.D.	
37) Isobutyl alcohol	0.00	43		N.D. d	
39) Carbon Tetrachloride	0.00	117		N.D.	
40) d4-1,2-Dichloroethane	11.55	65	273833	45.32 µg/L #	79
42) 1,2-Dichloroethane	0.00	62		N.D.	
43) Benzene	0.00	78		N.D.	
44) Trichloroethene	0.00	130		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4022.D Vial: 22
Acq On : 4 Dec 2006 20:45 Operator: jdb
Sample : b610171-05 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:20 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

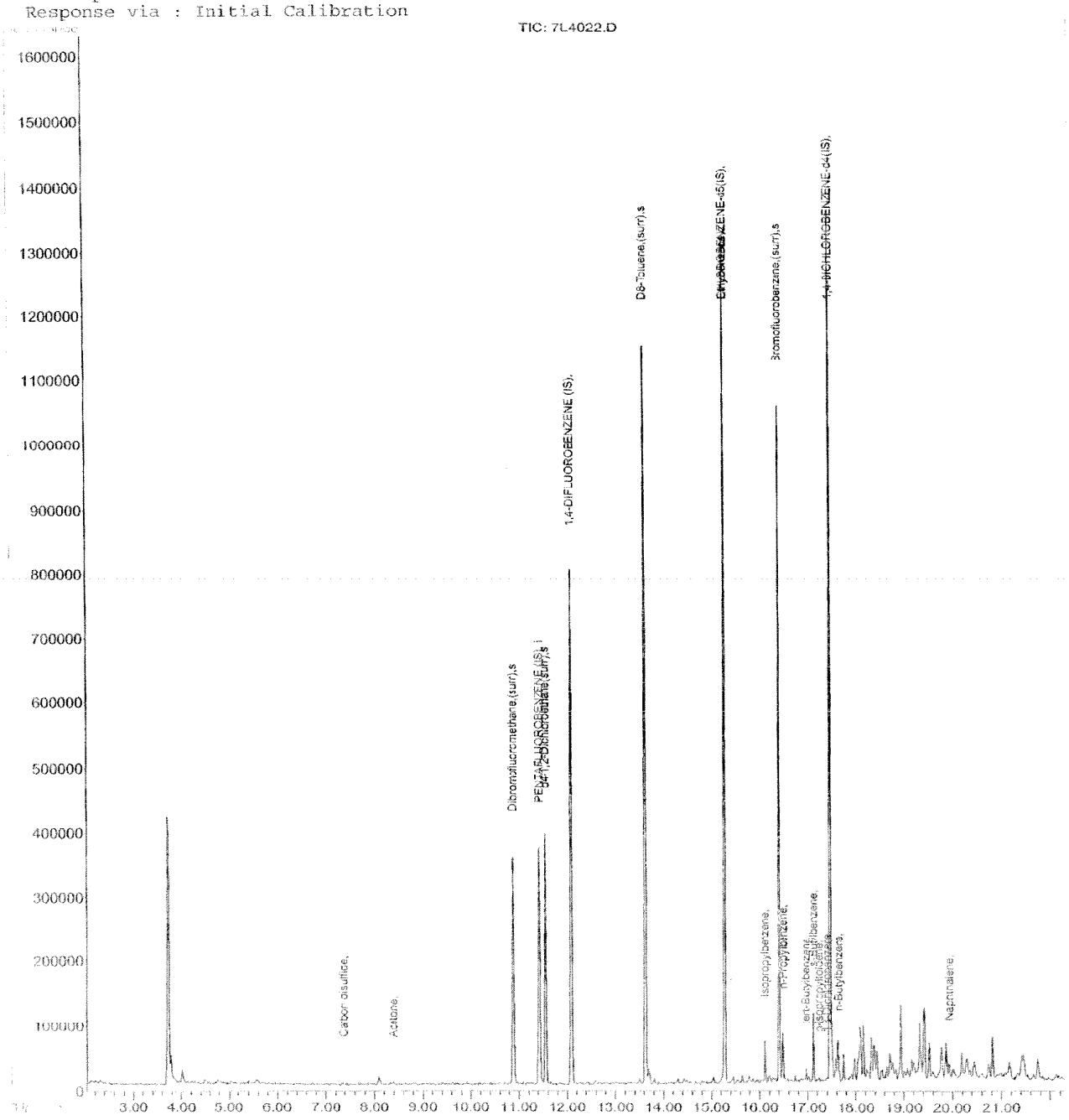
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) 1,2-Dichloropropane	0.00	63		N.D.	
46) Methyl methacrylate	0.00	69		N.D.	
47) 1,4-Dioxane	12.87	88	178	-1.75 ug/L	92
48) Dibromomethane	0.00	93		N.D.	
49) Bromodichloromethane	0.00	83		N.D.	
50) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
51) C-1,3-Dichloropropene	0.00	75		N.D.	
52) 4-Methyl-2-pentanone	0.00	100		N.D. d	
53) D8-Toluene	13.61	98	820180	49.62 ug/L	99
56) Toluene	0.00	92		N.D.	
57) T-1,3-Dichloropropene	0.00	75		N.D.	
58) Ethyl methacrylate	0.00	69		N.D.	
59) 1,1,2-Trichloroethane	0.00	97		N.D. d	
60) 1,3-Dichloropropane	0.00	76		N.D.	
61) Tetrachloroethene	0.00	164		N.D.	
62) 2-Hexanone	0.00	43		N.D.	
63) Dibromochloromethane	0.00	129		N.D.	
64) 1,2-Dibromoethane	0.00	107		N.D.	
65) Chlorobenzene	0.00	112		N.D.	
66) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
67) Ethylbenzene	15.26	106	3739	0.73 ug/L	99
68) m-xylene & p-xylene	0.00	106		N.D.	
69) O-Xylene	0.00	106		N.D.	
70) Styrene	0.00	104		N.D.	
71) Bromoform	0.00	173		N.D. d	
72) Isopropylbenzene	16.10	105	37864	2.75 ug/L	98
73) C-1,4-Dichloro-2-butene	16.41	53	308	-2.35 ug/L #	1
74) Bromofluorobenzene	16.40	95	368316	49.50 ug/L #	82
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
77) Bromobenzene	0.00	156		N.D.	
78) 1,2,3-Trichloropropane	0.00	75		N.D.	
79) T-1,4-Dichloro-2-Butene	0.00	53		N.D. d	
80) n-Propylbenzene	16.47	91	58126	2.77 ug/L	91
82) 2-Chlorotoluene	0.00	91		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
84) 4-Chlorotoluene	0.00	91		N.D.	
85) tert-Butylbenzene	16.95	119	9703	1.02 ug/L	96
86) Pentachloroethane	0.00	167		No Calib	
87) 1,2,4-Trimethylbenzene	0.00	105		N.D.	
88) s-Butylbenzene	17.12	105	49612	3.21 ug/L	95
89) 1,3-Dichlorobenzene	17.39	146	2355	0.35 ug/L	85
90) p-Isopropyltoluene	17.22	119	4699	0.41 ug/L	97
91) 1,4-Dichlorobenzene	0.00	146		N.D. d	
92) n-Butylbenzene	17.64	91	14886m	1.16 ug/L	68
93) 1,2-Dichlorobenzene	0.00	146		N.D.	
94) DBCP	0.00	157		N.D. d	
95) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
96) Hexachlorobutadiene	0.00	225		N.D. d	
97) Naphthalene	19.93	128	8261	0.86 ug/L	77
98) 1,2,3-Trichlorobenzene	0.00	180		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4022.D Vial: 22
Acq On : 4 Dec 2006 20:45 Operator: jdb
Sample : b610171-05 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:20 2006 Quant Results File: 8260W6L1.RES

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4022.D Vial: 22
Acq On : 4 Dec 2006 20:45 Operator: jdb
Sample : b610171-05 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: lscint.p

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library : C:\DATABASE\NBS75K.L

****
Peak Number 1 Benzene, 1-methyl-2-(2-propeny Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.08	3.12 ug/L	144581	1,4-DICHLOROBENZENE-d4(IS)	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	83
2	Benzene, (1-methyl-1-propenyl)-, (E	132	C10H12	000768-00-3	81
3	Benzene, 1-methyl-4-(2-propenyl)-	132	C10H12	003333-13-9	80
4	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	72
5	Benzene, (1-methyl-1-propenyl)-, (Z	132	C10H12	000767-99-7	68

****
Peak Number 2 Indan, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.14	3.09 ug/L	142960	1,4-DICHLOROBENZENE-d4(IS)	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indan, 1-methyl-	132	C10H12	000767-58-8	90
2	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	87
3	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	80
4	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	72
5	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	64

****
Peak Number 3 1H-Indene, 2,3-dihydro-4-methy Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.93	4.44 ug/L	205794	1,4-DICHLOROBENZENE-d4(IS)	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	90
2	Indan, 1-methyl-	132	C10H12	000767-58-8	90
3	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	87
4	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	72
5	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	72

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4022.D Vial: 22
Acq On : 4 Dec 2006 20:45 Operator: jdb
Sample : b610171-05 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: lscint.p

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library : C:\DATABASE\NBS75K.L

****
Peak Number 4 1H-Indene, 2,3-dihydro-1,2-dim Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.32	3.06 ug/L	141823	1,4-DICHLOROBENZENE-d4(IS)	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-1,2-dimethyl	146	C11H14	017057-82-8	90
2	1H-Indene, 2,3-dihydro-4,7-dimethyl	146	C11H14	006682-71-9	81
3	1H-Indene, 2,3-dihydro-1,6-dimethyl	146	C11H14	017059-48-2	76
4	Naphthalene, 1,2,3,4-tetrahydro-1-m	146	C11H14	001559-81-5	76
5	1H-Indene, 2,3-dihydro-1,3-dimethyl	146	C11H14	004175-53-5	76

****
Peak Number 5 1H-Indene, 2,3-dihydro-1,6-dim Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.41	5.27 ug/L	244082	1,4-DICHLOROBENZENE-d4(IS)	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-1,6-dimethyl	146	C11H14	017059-48-2	91
2	1H-Indene, 2,3-dihydro-1,3-dimethyl	146	C11H14	004175-53-5	87
3	Benzene, (1,1-dimethyl-2-propenyl)-	146	C11H14	018321-36-3	80
4	1H-Indene, 2,3-dihydro-1,1-dimethyl	146	C11H14	004912-92-9	72
5	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	64

****
Peak Number 6 1H-Indene, 2,3-dihydro-1,1,5-t Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.52	2.45 ug/L	113588	1,4-DICHLOROBENZENE-d4(IS)	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-1,1,5-trimet	160	C12H16	040650-41-7	87
2	1H-Indene, 2,3-dihydro-1,1,4-trimet	160	C12H16	016204-72-1	87
3	1H-Indene, 2,3-dihydro-1,1,6-trimet	160	C12H16	014276-95-0	83
4	Benzene, 1-(1-methylethenyl)-3-(1-m	160	C12H16	001129-29-9	76
5	Naphthalene, 1,2,3,4-tetrahydro-1,5	160	C12H16	021564-91-0	68

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4022.D Vial: 22
Acq On : 4 Dec 2006 20:45 Operator: jdb
Sample : b610171-05 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: lscint.p

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library : C:\DATABASE\NBS75K.L

****
Peak Number 7 Naphthalene, 1,2,3,4-tetrahydr Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.77	2.22 ug/L	102688	1,4-DICHLOROBENZENE-d4(IS)	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-2-m	146	C11H14	003877-19-8	81
2	Naphthalene, 1,2,3,4-tetrahydro-2-m	146	C11H14	003877-19-8	68
3	Naphthalene, 1,2,3,4-tetrahydro-2-m	146	C11H14	003877-19-8	68
4	2(1H)-Naphthalenone, 3,4-dihydro-	146	C10H10O	000530-93-8	53
5	Methyl 3-phenylcyclobutane-1,1-dica	234	C13H14O4	000000-00-0	50

****
Peak Number 8 Naphthalene, 1,2,3,4-tetrahydr Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.81	2.81 ug/L	129979	1,4-DICHLOROBENZENE-d4(IS)	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-5-m	146	C11H14	002809-64-5	81
2	Naphthalene, 1,2,3,4-tetrahydro-6-m	146	C11H14	001680-51-9	76
3	Benzene, 2-ethenyl-1,3,5-trimethyl-	146	C11H14	000769-25-5	70
4	Naphthalene, 1,2,3,4-tetrahydro-6-m	146	C11H14	001680-51-9	68
5	1H-Indene, 2,3-dihydro-4,7-dimethyl	146	C11H14	006682-71-9	58

Tentatively Identified Compound (LSC) summary

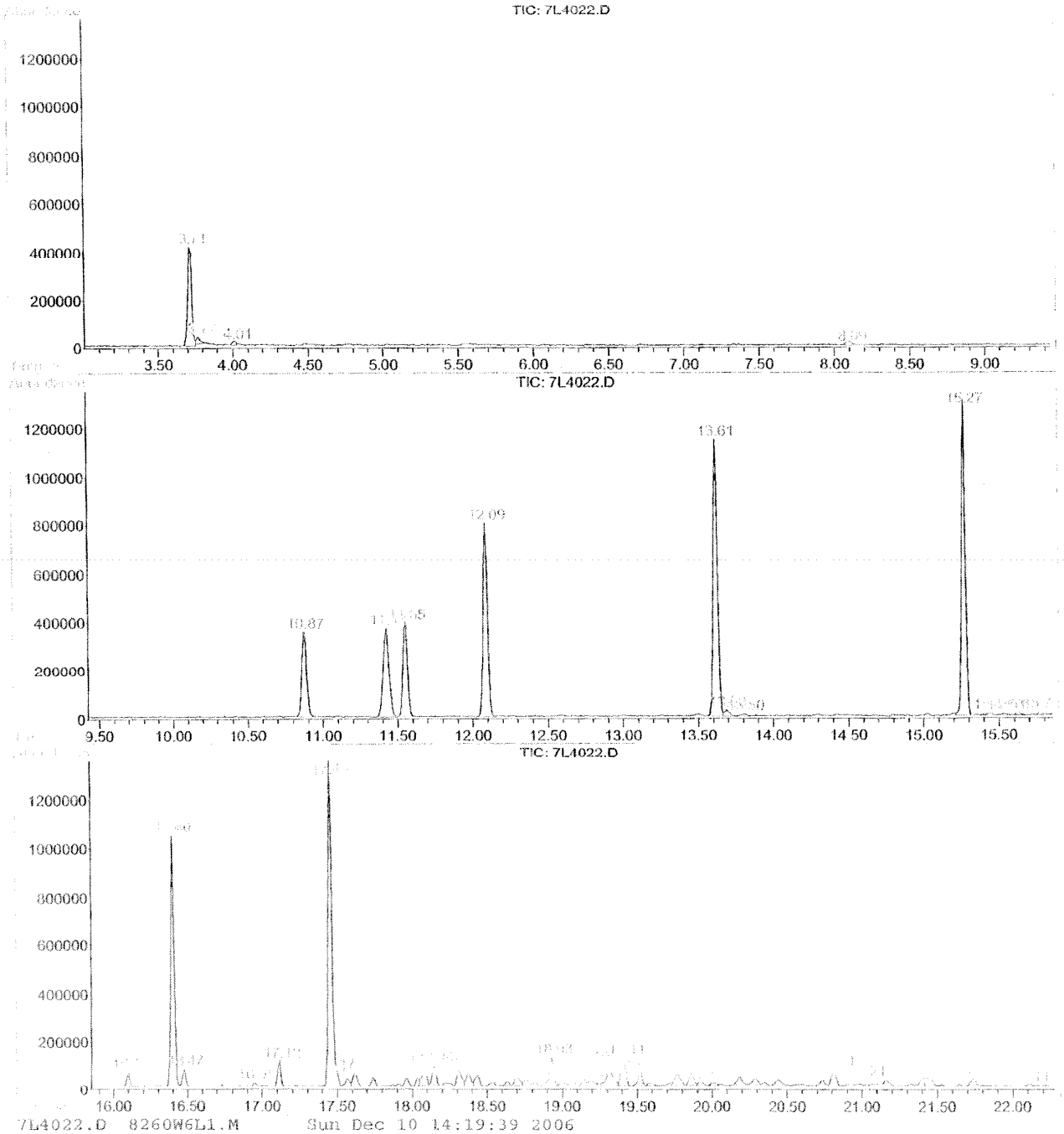
Operator ID: jdb Date Acquired: 4 Dec 2006 20:45
Data File: C:\HPCHEM\1\DATA\20067L4\7L4022.D
Name: b610171-05
Misc:
Method: C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title: VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Benzene, 1-methyl-2-	18.08	3.1	ug/L	144581	ISTD04	17.45	2315160	50.0
Indan, 1-methyl-	18.14	3.1	ug/L	142960	ISTD04	17.45	2315160	50.0
1H-Indene, 2,3-dihyd	18.93	4.4	ug/L	205794	ISTD04	17.45	2315160	50.0
1H-Indene, 2,3-dihyd	19.32	3.1	ug/L	141823	ISTD04	17.45	2315160	50.0
1H-Indene, 2,3-dihyd	19.41	5.3	ug/L	244082	ISTD04	17.45	2315160	50.0
1H-Indene, 2,3-dihyd	19.52	2.5	ug/L	113588	ISTD04	17.45	2315160	50.0
Naphthalene, 1,2,3,4	19.77	2.2	ug/L	102688	ISTD04	17.45	2315160	50.0
Naphthalene, 1,2,3,4	20.81	2.8	ug/L	129979	ISTD04	17.45	2315160	50.0

7L4022.D 8260W6L1.M Sun Dec 10 14:19:40 2006

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\20067L4\7L4022.D
Operator : jdb
Acquired : 4 Dec 2006 20:45 using AcqMethod 8260W6L1
Instrument : JVGCMS1
Sample Name: b610171-05
Misc Info :
Vial Number: 22
Quant File :8260W6L1.RES (RTE Integrator)



7L4022.D 8260W6L1.M Sun Dec 10 14:19:39 2006

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4022.D Vial: 22
Acq On : 4 Dec 2006 20:45 Operator: jdb
Sample : b610171-05 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.713	166	171	175	rBV	413989	853839	36.88%	4.797%
2	3.772	175	177	181	rVB	37060	67422	2.91%	0.379%
3	4.009	198	201	203	rBV	18694	30524	1.32%	0.171%
4	8.092	609	615	621	rBV2	13089	44484	1.92%	0.250%
5	10.073	891	897	904	rBV2	352363	738700	31.91%	4.150%
6	11.426	943	953	961	rBV	366931	1011394	43.69%	5.682%
7	11.554	961	966	971	rVV	386234	798017	34.47%	4.483%
8	12.086	1013	1020	1027	rBV	797865	1629224	70.37%	9.153%
9	13.615	1170	1175	1180	rVV	1142844	2311070	99.82%	12.983%
10	13.684	1180	1182	1189	rVB4	25028	58840	2.54%	0.331%
11	13.802	1189	1194	1198	rBV6	9823	27640	1.19%	0.155%
12	15.272	1337	1343	1349	rVV	1307710	2304740	99.55%	12.947%
13	15.439	1353	1360	1363	rVB6	12051	34725	1.50%	0.195%
14	15.528	1363	1369	1374	rBV7	7514	28793	1.24%	0.162%
15	15.627	1376	1379	1383	rVB5	12043	28614	1.24%	0.161%
16	15.765	1390	1393	1399	rBV4	10925	27612	1.19%	0.155%
17	16.100	1423	1427	1431	rVB	65171	105917	4.57%	0.595%
18	16.199	1431	1437	1441	rBV7	11279	36974	1.60%	0.208%
19	16.396	1453	1457	1462	rBV	1044432	1635932	70.66%	9.190%
20	16.475	1462	1465	1472	rVB	74702	129521	5.59%	0.728%
21	16.948	1511	1513	1517	rVB3	19701	31104	1.34%	0.175%
22	17.116	1524	1530	1535	rBV	108538	182377	7.88%	1.025%
23	17.451	1560	1564	1572	rBV	1341353	2315159	100.00%	13.006%
24	17.570	1572	1576	1578	rVV4	33391	64951	2.81%	0.365%
25	17.619	1578	1581	1586	rVB2	62970	130321	5.63%	0.732%
26	17.737	1586	1593	1597	rBV2	42320	78410	3.39%	0.440%
27	17.964	1613	1616	1620	rVB2	34654	63442	2.74%	0.356%
28	18.033	1620	1623	1624	rBV	34685	49686	2.15%	0.279%
29	18.083	1625	1628	1631	rVV	76531	144581	6.24%	0.812%
30	18.142	1631	1634	1639	rVB	78725	142960	6.17%	0.803%
31	18.309	1648	1651	1655	rBV3	64104	142361	6.15%	0.800%
32	18.378	1655	1658	1661	rVV2	42084	83998	3.63%	0.472%
33	18.438	1661	1664	1669	rVB2	44812	92500	4.00%	0.520%
34	18.635	1680	1684	1687	rBV3	19649	35931	1.55%	0.202%
35	18.694	1687	1690	1694	rVV2	38722	91964	3.97%	0.517%
36	18.763	1694	1697	1700	rVV3	23402	59291	2.56%	0.333%
37	18.822	1700	1703	1706	rVB3	15276	29337	1.27%	0.165%
38	18.931	1706	1714	1718	rBV2	115598	236470	10.21%	1.328%
39	18.990	1718	1720	1724	rBV5	10529	28485	1.23%	0.160%
40	19.069	1725	1728	1733	rVV2	15639	36134	1.56%	0.203%
41	19.148	1733	1736	1738	rVV4	27655	49427	2.13%	0.278%
42	19.197	1738	1741	1745	rVV4	23114	62333	2.69%	0.350%
43	19.315	1747	1753	1759	rVV3	81644	227329	9.82%	1.277%
44	19.414	1759	1763	1767	rVB	111214	244002	10.54%	1.371%

45	19.522	1768	1774	1778	rBV	54663	113588	4.91%	0.638%
46	19.582	1778	1780	1788	rVB9	10838	29236	1.26%	0.164%
47	19.769	1795	1799	1804	rVB2	46138	123096	5.32%	0.692%
48	19.858	1804	1808	1812	rBV2	52669	112244	4.85%	0.631%
49	19.927	1812	1815	1820	rVB4	19478	40775	1.76%	0.229%
50	20.016	1820	1824	1827	rBV5	11897	30094	1.30%	0.169%
51	20.183	1836	1841	1846	rBV4	36437	79934	3.45%	0.449%
52	20.292	1847	1852	1855	rVV4	24880	64461	2.78%	0.362%
53	20.440	1863	1867	1874	rVB8	23342	61140	2.64%	0.343%
54	20.735	1891	1897	1901	rBV3	23214	59704	2.58%	0.335%
55	20.814	1901	1905	1909	rVB2	63200	137781	5.95%	0.774%
56	21.160	1937	1940	1947	rVB5	26426	67498	2.92%	0.379%
57	21.327	1951	1957	1960	rBV7	11103	31936	1.38%	0.179%
58	21.406	1960	1965	1966	rVV3	34842	76233	3.29%	0.428%
59	21.446	1966	1969	1976	rVV3	37054	105728	4.57%	0.594%
60	21.643	1984	1989	1993	rBV8	10192	26571	1.15%	0.149%
61	21.732	1994	1998	2004	rVV3	32551	87916	3.80%	0.494%
62	22.106	2031	2036	2039	rBV7	8862	26213	1.13%	0.147%

Sum of corrected areas: 17800763

7L4022.D 8260W6L1.M Sun Dec 10 14:19:39 2006

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4023.D Vial: 23
Acq On : 4 Dec 2006 21:15 Operator: jdb
Sample : b610171-06 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:22 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) PENTAFLUOROBENZENE (IS)	11.43	168	278756	50.00 ug/L	-0.01
38) 1,4-DIFLUOROBENZENE (IS)	12.09	114	621792	50.00 ug/L	-0.01
55) CHLOROBENZENE-d5(IS)	15.27	117	668272	50.00 ug/L	-0.01
81) 1,4-DICHLOROBENZENE-d4(IS)	17.45	152	296533	50.00 ug/L	-0.01
System Monitoring Compounds					
34) Dibromofluoromethane (surr	10.87	113	231621	50.18 ug/L	-0.01
Spiked Amount 50.000 Range 71 - 136			Recovery = 100.36%		
41) d4-1,2-Dichloroethane(surr	11.55	65	282360	47.58 µg/L	-0.01
Spiked Amount 50.000 Range 70 - 130			Recovery = 95.16%		
54) D8-Toluene (surr)	13.62	98	825120	50.82 ug/L	-0.01
Spiked Amount 50.000 Range 75 - 126			Recovery = 101.64%		
75) Bromofluorobenzene (surr)	16.40	95	371829	49.52 ug/L	-0.01
Spiked Amount 50.000 Range 76 - 120			Recovery = 99.04%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.	
3) Chloromethane	0.00	50		N.D.	
4) Vinyl Chloride	0.00	62		N.D.	
5) Bromomethane	5.63	94	375	-5.13 ug/L	85
6) Chloroethane	0.00	64		N.D. d	
7) Trichlorofluoromethane	0.00	101		N.D.	
8) Ethanol	7.21	45	455	-57.10 ug/L	72
9) 1,2-Dichloro-1,1,2-triflur	0.00	117		No Calib #	
10) acrolein	0.00	56		N.D. d	
11) 1,1,2Trichloro-1,2,2triflu	0.00	151		N.D.	
12) 1,1-Dichloroethene	0.00	96		N.D.	
13) Acetone	0.00	43		N.D. d	
14) Iodomethane	0.00	142		N.D. d	
15) Carbon disulfide	0.00	76		N.D.	
16) Acetonitrile	0.00	41		N.D. d	
17) 3-chloropropene	0.00	41		N.D.	
18) Methylene Chloride	8.33	84	1238	-1.30 ug/L #	83
19) Acrylonitrile	0.00	53		N.D.	
20) Methyl tert-butyl ether	0.00	73		N.D.	
21) t-1,2-Dichloroethene	0.00	96		N.D.	
22) 1,1-Dichloroethane	0.00	63		N.D.	
23) Vinyl Acetate	9.75	43	389	-20.63 ug/L #	1
24) Isopropyl ether	0.00	45		N.D.	
25) Chloroprene	0.00	88		N.D.	
26) 2-Butanone	0.00	72		N.D. d	
27) c-1,2-Dichloroethene	0.00	96		N.D.	
28) 2,2-Dichloropropane	0.00	77		N.D.	
29) Propionitrile	0.00	54		N.D. d	
30) Methacrylonitrile	0.00	41		N.D.	
31) Bromochloromethane	0.00	128		N.D.	
32) Chloroform	0.00	83		N.D.	
33) Dibromofluoromethane	10.87	113	231621	50.18 ug/L	82
35) 1,1,1-Trichloroethane	0.00	97		N.D.	
36) 1,1-Dichloropropene	0.00	75		N.D.	
37) Isobutyl alcohol	0.00	43		N.D. d	
39) Carbon Tetrachloride	0.00	117		N.D. d	
40) d4-1,2-Dichloroethane	11.55	65	282360	47.58 µg/L #	80
42) 1,2-Dichloroethane	0.00	62		N.D.	
43) Benzene	0.00	78		N.D.	
44) Trichloroethene	0.00	130		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4023.D Vial: 23
Acq On : 4 Dec 2006 21:15 Operator: jdb
Sample : b610171-06 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:22 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) 1,2-Dichloropropane	0.00	63		N.D.	
46) Methyl methacrylate	0.00	69		N.D.	
47) 1,4-Dioxane	13.00	88	227	-0.47 ug/L	86
48) Dibromomethane	0.00	93		N.D.	
49) Bromodichloromethane	0.00	83		N.D.	
50) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
51) C-1,3-Dichloropropene	0.00	75		N.D.	
52) 4-Methyl-2-pentanone	0.00	100		N.D. d	
53) D8-Toluene	13.62	98	825120	50.82 ug/L	98
56) Toluene	13.68	92	3305	0.33 ug/L	96
57) T-1,3-Dichloropropene	0.00	75		N.D.	
58) Ethyl methacrylate	0.00	69		N.D.	
59) 1,1,2-Trichloroethane	0.00	97		N.D.	
60) 1,3-Dichloropropane	0.00	76		N.D.	
61) Tetrachloroethene	0.00	164		N.D. d	
62) 2-Hexanone	0.00	43		N.D.	
63) Dibromochloromethane	0.00	129		N.D.	
64) 1,2-Dibromoethane	0.00	107		N.D.	
65) Chlorobenzene	0.00	112		N.D.	
66) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
67) Ethylbenzene	0.00	106		N.D.	
68) m-xylene & p-xylene	0.00	106		N.D.	
69) O-Xylene	0.00	106		N.D.	
70) Styrene	0.00	104		N.D.	
71) Bromoform	0.00	173		N.D. d	
72) Isopropylbenzene	16.10	105	3131	0.23 ug/L	86
73) C-1,4-Dichloro-2-butene	16.39	53	304	-2.35 ug/L #	1
74) Bromofluorobenzene	16.40	95	371829	49.52 ug/L #	85
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
77) Bromobenzene	0.00	156		N.D.	
78) 1,2,3-Trichloropropane	0.00	75		N.D.	
79) T-1,4-Dichloro-2-Butene	0.00	53		N.D.	
80) n Propylbenzene	0.00	91		N.D.	
82) 2-Chlorotoluene	0.00	91		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
84) 4-Chlorotoluene	0.00	91		N.D.	
85) tert-Butylbenzene	0.00	119		N.D.	
86) Pentachloroethane	0.00	167		No Calib #	
87) 1,2,4-Trimethylbenzene	0.00	105		N.D.	
88) s-Butylbenzene	17.12	105	6937	0.44 ug/L	87
89) 1,3-Dichlorobenzene	17.39	146	2255	0.33 ug/L	89
90) p-Isopropyltoluene	0.00	119		N.D.	
91) 1,4-Dichlorobenzene	0.00	146		N.D. d	
92) n-Butylbenzene	0.00	91		N.D.	
93) 1,2-Dichlorobenzene	0.00	146		N.D.	
94) DBCP	0.00	157		N.D. d	
95) 1,2,4 Trichlorobenzene	0.00	180		N.D.	
96) Hexachlorobutadiene	0.00	225		N.D. d	
97) Naphthalene	0.00	128		N.D.	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D.	

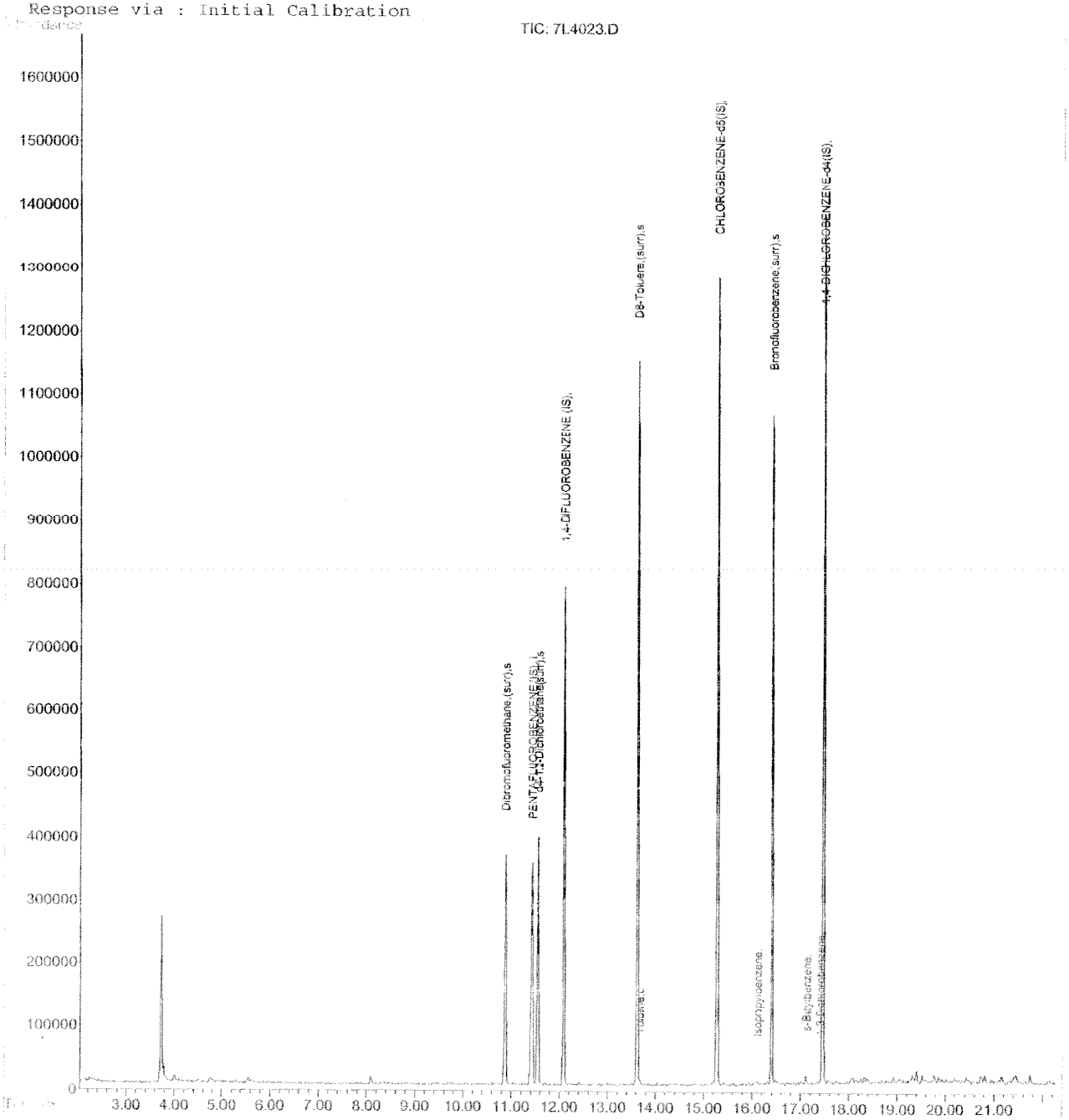
(#) = qualifier out of range (m) = manual integration
7L4023.D 8260W6L1.M Sun Dec 10 14:21:32 2006

Quantitation Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4023.D
Acq On : 4 Dec 2006 21:15
Sample : b610171-06
Misc :
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:22 2006

Vial: 23
Operator: jdb
Inst : JVGCMS1
Multiplr: 1.00
Quant Results File: 8260W6L1.RES

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4023.D Vial: 23
Acq On : 4 Dec 2006 21:15 Operator: jdb
Sample : b610171-06 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: lscint.p

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 Propene, hexafluoro- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.78	3.27 ug/L	66877	PENTAFLUOROBENZENE (IS)	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propene, hexafluoro-	150	C3F6	000116-15-4	86
2	Propene, hexafluoro-	150	C3F6	000116-15-4	64
3	Butanal, heptafluoro-	198	C4HF7O	000375-02-0	40
4	4,4-Dimethyl-1-phenylpent-1-en-3-on	188	C13H16O	000000-00-0	9
5	1H-Indole, 1-methyl-	131	C9H9N	000603-76-9	9

****

Peak Number 2 unknown1 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.08	1.89 ug/L	38616	PENTAFLUOROBENZENE (IS)	11.43

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2,2'-oxybis-	106	C4H10O3	000111-46-6	9
2	Ethanol, 2-[2-(ethenyloxy)ethoxy]-	132	C6H12O3	000929-37-3	9
3	Butane, 1-methoxy-2-methyl-	102	C6H14O	062016-48-2	9
4	Diisopropyl ether	102	C6H14O	000108-20-3	7
5	2,2-Dichloroethyl methyl ether	128	C3H6Cl2O	034862-07-2	7

****

Peak Number 3 Benzene, (2-methyl-1-butenyl)- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.42	0.98 ug/L	43430	1,4-DICHLOROBENZENE-d4(IS)	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	76
2	1H-Indene, 2,3-dihydro-1,2-dimethyl	146	C11H14	017057-82-8	70
3	1H-Indene, 2,3-dihydro-5,6-dimethyl	146	C11H14	001075-22-5	70
4	1H-Indene, 2,3-dihydro-4,7-dimethyl	146	C11H14	006682-71-9	70
5	1H-Indene, 2,3-dihydro-1,3-dimethyl	146	C11H14	004175-53-5	62

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4023.D Vial: 23
Acq On : 4 Dec 2006 21:15 Operator: jdb
Sample : b610171-06 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: lscint.p

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library : C:\DATABASE\NBS75K.L

****
Peak Number 4 unknown2 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.82	0.54 ug/L	23938	1,4-DICHLOROBENZENE-d4(IS)	17.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-6-m	146	C11H14	001680-51-9	55
2	Naphthalene, 1,2,3,4-tetrahydro-5-m	146	C11H14	002809-64-5	55
3	Naphthalene, 1,2,3,4-tetrahydro-6-m	146	C11H14	001680-51-9	43
4	(Z)-4-Chloro-3-methyl-3-hexen-2-one	146	C7H11ClO	000000-00-0	38
5	Benzene, 2-ethenyl-1,3,5-trimethyl-	146	C11H14	000769-25-5	38

Tentatively Identified Compound (LSC) summary

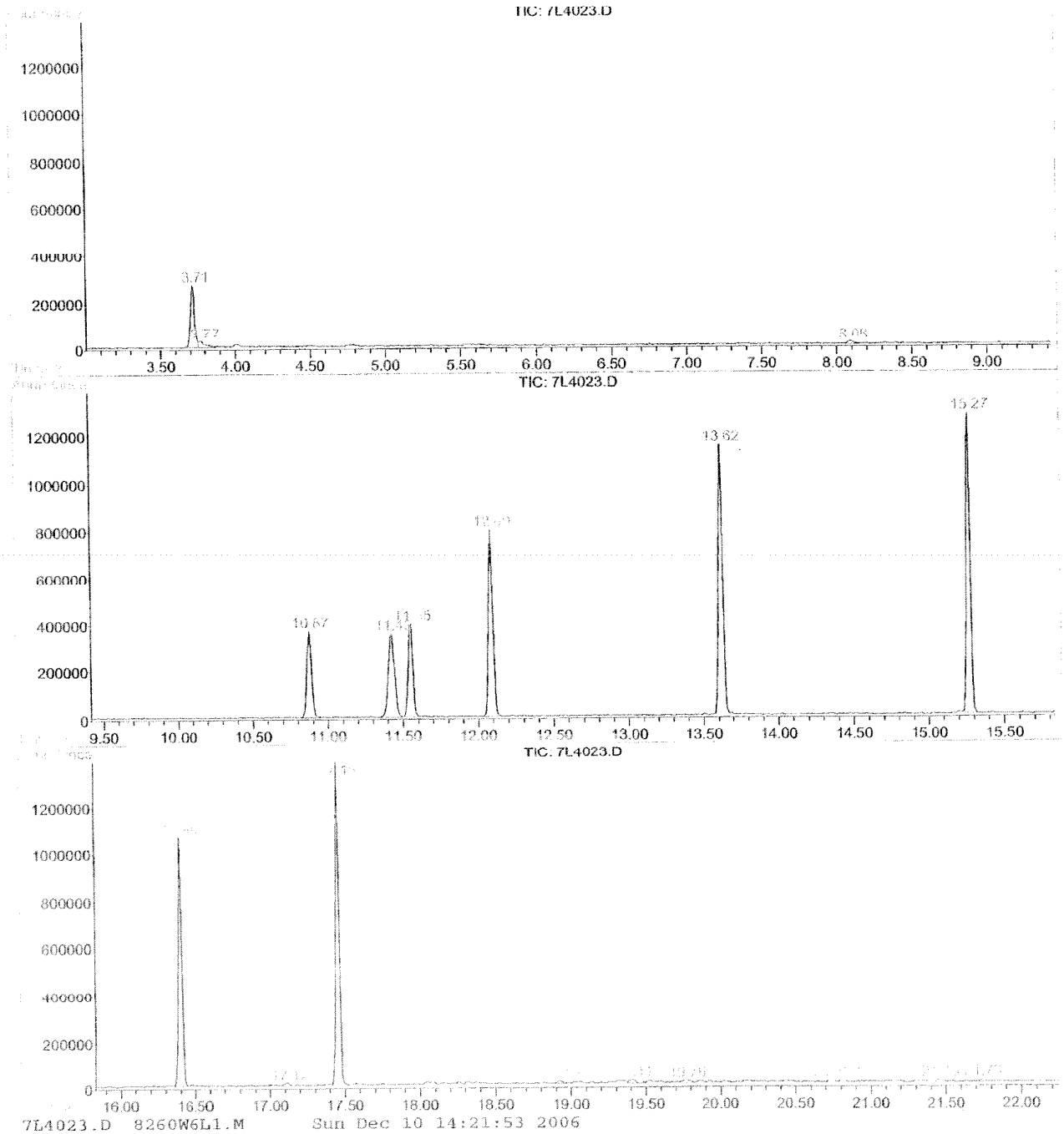
Operator ID: jdb Date Acquired: 4 Dec 2006 21:15
Data File: C:\HPCHEM\1\DATA\20067L4\7L4023.D
Name: b610171-06
Misc:
Method: C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title: VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Propene, hexafluoro-	3.78	3.3	ug/L	66877	ISTD01	11.43	1021970	50.0
unknown1	8.08	1.9	ug/L	38616	ISTD01	11.43	1021970	50.0
Benzene, (2-methyl-1	19.42	1.0	ug/L	43430	ISTD04	17.45	2219190	50.0
unknown2	20.82	0.5	ug/L	23938	ISTD04	17.45	2219190	50.0

7L4023.D 8260W6L1.M Sun Dec 10 14:21:54 2006

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\20067L4\7L4023.D
Operator : jdb
Acquired : 4 Dec 2006 21:15 using AcqMethod 8260W6L1
Instrument : JVGCMS1
Sample Name: b610171-06
Misc Info :
Vial Number: 23
Quant File :8260W6L1.RES (RTE Integrator)



7L4023.D 8260W6L1.M Sun Dec 10 14:21:53 2006

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4023.D
Acq On : 4 Dec 2006 21:15
Sample : b610171-06
Misc :
MS Integration Params: lscint.p

Vial: 23
Operator: jdb
Inst : JVGCMS1
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Smoothing : ON
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 100 Area counts
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.714	167	171	175	rBV	263676	537318	23.18%	3.960%
2	3.774	175	177	186	rVB3	26451	69427	2.99%	0.512%
3	8.083	608	614	621	rBV	12939	38616	1.67%	0.285%
4	10.874	892	897	905	rBV	364331	765209	33.01%	5.639%
5	11.427	945	953	960	rBV	351954	1021972	44.09%	7.531%
6	11.555	960	966	973	rVB	392635	818585	35.31%	6.032%
7	12.087	1013	1020	1029	rBV	790874	1610613	69.48%	11.869%
8	13.616	1170	1175	1181	rBV	1141718	2318150	100.00%	17.083%
9	15.273	1338	1343	1349	rVB	1277313	2263388	97.64%	16.679%
10	16.397	1453	1457	1463	rVV	1059031	1642350	70.85%	12.103%
11	17.117	1526	1530	1535	rBV4	13789	32409	1.40%	0.239%
12	17.453	1560	1564	1573	rVB	1374828	2219193	95.73%	16.353%
13	18.932	1708	1714	1717	rBV6	11584	28162	1.21%	0.208%
14	19.405	1759	1762	1768	rVB2	21120	52840	2.28%	0.389%
15	19.760	1794	1798	1804	rVB8	13583	41340	1.78%	0.305%
16	20.727	1894	1896	1902	rBV6	11902	29998	1.29%	0.221%
17	20.806	1902	1904	1910	rVB4	12814	27024	1.17%	0.199%
18	21.447	1966	1969	1972	rVB4	11096	25212	1.09%	0.186%
19	21.733	1995	1998	2004	rVB4	15142	28354	1.22%	0.209%

Sum of corrected areas: 13570160

7L4023.D 8260W6L1.M Sun Dec 10 14:21:53 2006

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4024.D Vial: 24
Acq On : 4 Dec 2006 21:46 Operator: jdb
Sample : b610171-07 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:23 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) PENTAFLUOROBENZENE (IS)	11.42	168	265622	50.00 ug/L	-0.02
38) 1,4-DIFLUOROBENZENE (IS)	12.09	114	635928	50.00 ug/L	-0.01
55) CHLOROBENZENE-d5(IS)	15.27	117	658608	50.00 ug/L	-0.02
81) 1,4-DICHLOROBENZENE-d4(IS)	17.46	152	297392	50.00 ug/L	-0.01
System Monitoring Compounds					
34) Dibromofluoromethane (surr	10.88	113	223148	50.73 ug/L	-0.01
Spiked Amount 50.000	Range 71 - 136		Recovery = 101.46%		
41) d4-1,2-Dichloroethane(surr	11.55	65	280339	46.19 µg/L	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 92.38%		
54) D8-Toluene (surr)	13.62	98	815408	49.11 ug/L	-0.01
Spiked Amount 50.000	Range 75 - 126		Recovery = 98.22%		
75) Bromofluorobenzene (surr)	16.40	95	371273	50.17 ug/L	-0.01
Spiked Amount 50.000	Range 76 - 120		Recovery = 100.34%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.	
3) Chloromethane	0.00	50		N.D.	
4) Vinyl Chloride	0.00	62		N.D.	
5) Bromomethane	5.59	94	345	-5.14 ug/L #	2
6) Chloroethane	0.00	64		N.D. d	
7) Trichlorofluoromethane	0.00	101		N.D.	
8) Ethanol	7.01	45	438	-56.99 ug/L	90
9) 1,2-Dichloro-1,1,2-tritlur	0.00	117		No Calib #	
10) acrolein	0.00	56		N.D. d	
11) 1,1,2Trichloro-1,2,2triflu	0.00	151		N.D.	
12) 1,1-Dichloroethene	0.00	96		N.D.	
13) Acetone	8.38	43	24079	16.26 ug/L	99
14) Iodomethane	0.00	142		N.D. d	
15) Carbon disulfide	0.00	76		N.D.	
16) Acetonitrile	0.00	41		N.D. d	
17) 3-chloropropene	0.00	41		N.D.	
18) Methylene Chloride	8.32	84	1187	-1.29 ug/L #	55
19) Acrylonitrile	0.00	53		N.D.	
20) Methyl tert-butyl ether	0.00	73		N.D.	
21) t-1,2-Dichloroethene	0.00	96		N.D.	
22) 1,1-Dichloroethane	0.00	63		N.D.	
23) Vinyl Acetate	9.84	43	140	-20.66 ug/L #	1
24) Isopropyl ether	0.00	45		N.D.	
25) Chloroprene	0.00	88		N.D.	
26) 2-Butanone	11.02	72	3448m	7.39 ug/L	94
27) c-1,2-Dichloroethene	0.00	96		N.D.	
28) 2,2-Dichloropropane	0.00	77		N.D.	
29) Propionitrile	0.00	54		N.D. d	
30) Methacrylonitrile	0.00	41		N.D.	
31) Bromochloromethane	0.00	128		N.D.	
32) Chloroform	0.00	83		N.D.	
33) Dibromofluoromethane	10.88	113	223148	50.73 ug/L	81
35) 1,1,1-Trichloroethane	0.00	97		N.D.	
36) 1,1-Dichloropropene	0.00	75		N.D.	
37) Isobutyl alcohol	0.00	43		N.D. d	
39) Carbon Tetrachloride	0.00	117		N.D. d	
40) d4-1,2-Dichloroethane	11.55	65	280339	46.19 µg/L #	82
42) 1,2-Dichloroethane	0.00	62		N.D.	
43) Benzene	0.00	78		N.D.	
44) Trichloroethene	0.00	130		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4024.D Vial: 24
Acq On : 4 Dec 2006 21:46 Operator: jdb
Sample : b610171-07 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:23 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

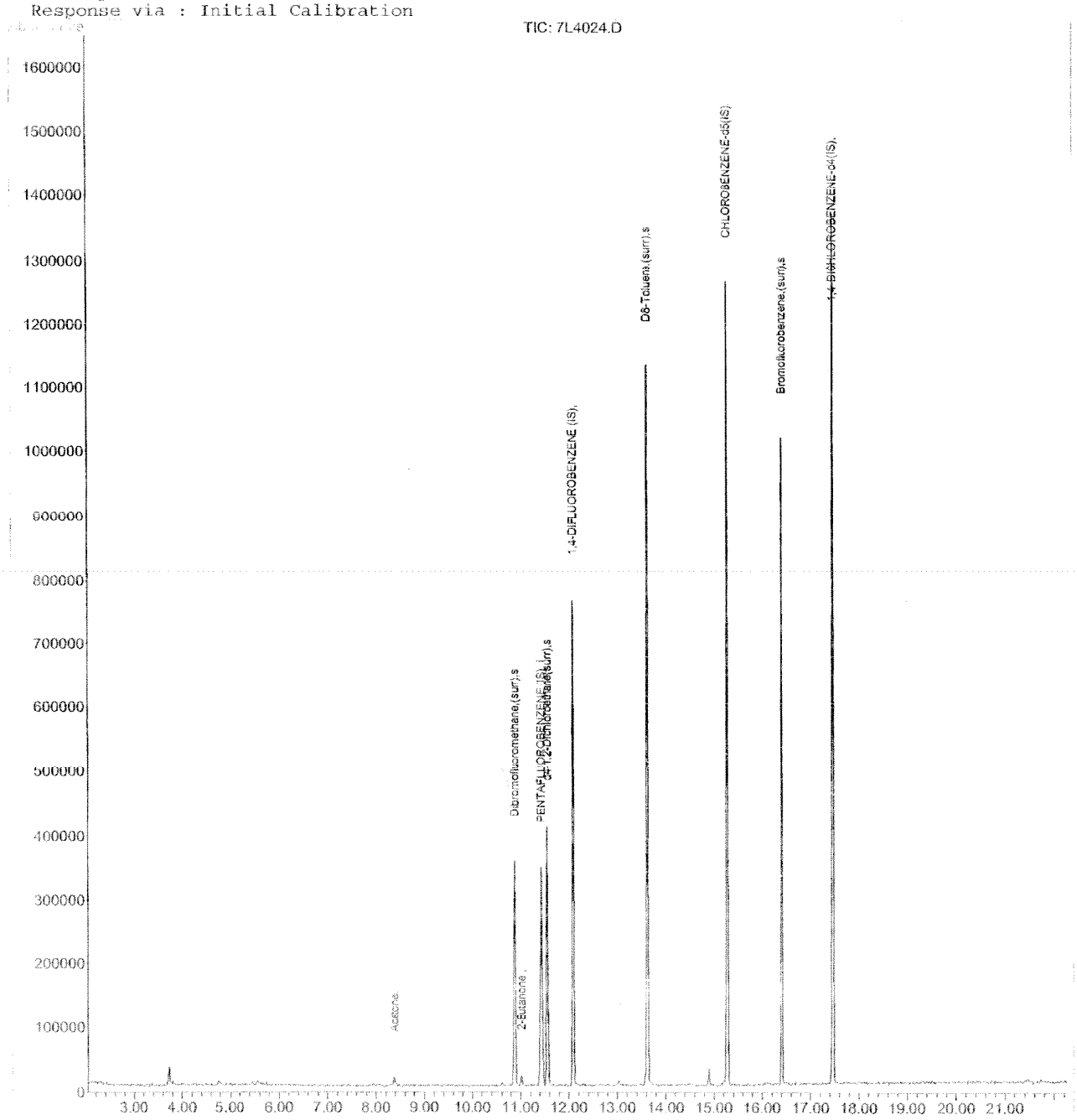
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) 1,2-Dichloropropane	0.00	63		N.D.	
46) Methyl methacrylate	0.00	69		N.D.	
47) 1,4-Dioxane	12.86	88	119	-3.18 ug/L #	1
48) Dibromomethane	0.00	93		N.D.	
49) Bromodichloromethane	0.00	83		N.D.	
50) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
51) C-1,3-Dichloropropene	0.00	75		N.D.	
52) 4-Methyl-2-pentanone	0.00	100		N.D. d	
53) D8-Toluene	13.62	98	815408	49.11 ug/L	98
56) Toluene	0.00	92		N.D.	
57) T-1,3-Dichloropropene	0.00	75		N.D.	
58) Ethyl methacrylate	0.00	69		N.D.	
59) 1,1,2-Trichloroethane	0.00	97		N.D.	
60) 1,3-Dichloropropane	0.00	76		N.D.	
61) Tetrachloroethene	0.00	164		N.D. d	
62) 2-Hexanone	0.00	43		N.D.	
63) Dibromochloromethane	0.00	129		N.D.	
64) 1,2-Dibromoethane	0.00	107		N.D.	
65) Chlorobenzene	0.00	112		N.D.	
66) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
67) Ethylbenzene	0.00	106		N.D.	
68) m-xylene & p-xylene	0.00	106		N.D.	
69) O-Xylene	0.00	106		N.D.	
70) Styrene	0.00	104		N.D.	
71) Bromoform	0.00	173		N.D. d	
72) Isopropylbenzene	0.00	105		N.D.	
73) C-1,4-Dichloro-2-butene	16.37	53	276	-2.37 ug/L #	1
74) Bromofluorobenzene	16.40	95	371273	50.17 ug/L #	83
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
77) Bromobenzene	0.00	156		N.D. d	
78) 1,2,3-Trichloropropane	0.00	75		N.D.	
79) T-1,4-Dichloro-2-Butene	0.00	53		N.D.	
80) n-Propylbenzene	0.00	91		N.D.	
82) 2-Chlorotoluene	0.00	91		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
84) 4-Chlorotoluene	0.00	91		N.D.	
85) tert-Butylbenzene	0.00	119		N.D.	
86) Pentachloroethane	0.00	167		No Calib	
87) 1,2,4-Trimethylbenzene	0.00	105		N.D.	
88) s-Butylbenzene	0.00	105		N.D.	
89) 1,3-Dichlorobenzene	0.00	146		N.D.	
90) p-Isopropyltoluene	0.00	119		N.D.	
91) 1,4-Dichlorobenzene	0.00	146		N.D.	
92) n-Butylbenzene	0.00	91		N.D.	
93) 1,2-Dichlorobenzene	0.00	146		N.D.	
94) DBCP	0.00	157		N.D. d	
95) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
96) Hexachlorobutadiene	0.00	225		N.D. d	
97) Naphthalene	0.00	128		N.D.	
98) 1,2,3-Trichlorobenzene	0.00	180		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4024.D Vial: 24
Acq On : 4 Dec 2006 21:46 Operator: jdb
Sample : b610171-07 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:23 2006 Quant Results File: 8260W6L1.RES

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4024.D Vial: 24
Acq On : 4 Dec 2006 21:46 Operator: jdb
Sample : b610171-07 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: lscint.p

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library : C:\DATABASE\NBS75K.L

****
Peak Number 1 unknown1 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.89	0.93 ug/L	41652	CHLOROBENZENE-d5(IS)	15.27

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanal	100	C6H12O	000066-25-1	56
2	Hexanal	100	C6H12O	000066-25-1	47
3	Hexanal	100	C6H12O	000066-25-1	47
4	Butanal	72	C4H8O	000123-72-8	47
5	Hexanal	100	C6H12O	000066-25-1	47

Tentatively Identified Compound (LSC) summary

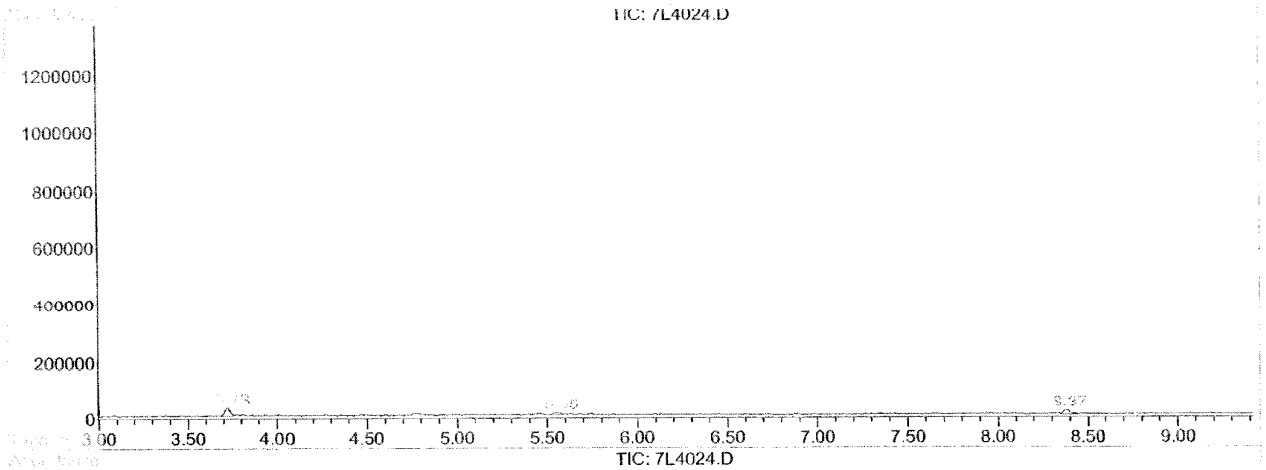
Operator ID: jdb Date Acquired: 4 Dec 2006 21:46
Data File: C:\HPCHEM\1\DATA\20067L4\7L4024.D
Name: b610171-07
Misc:
Method: C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title: VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library Searched: C:\DATABASE\NBS75K.L

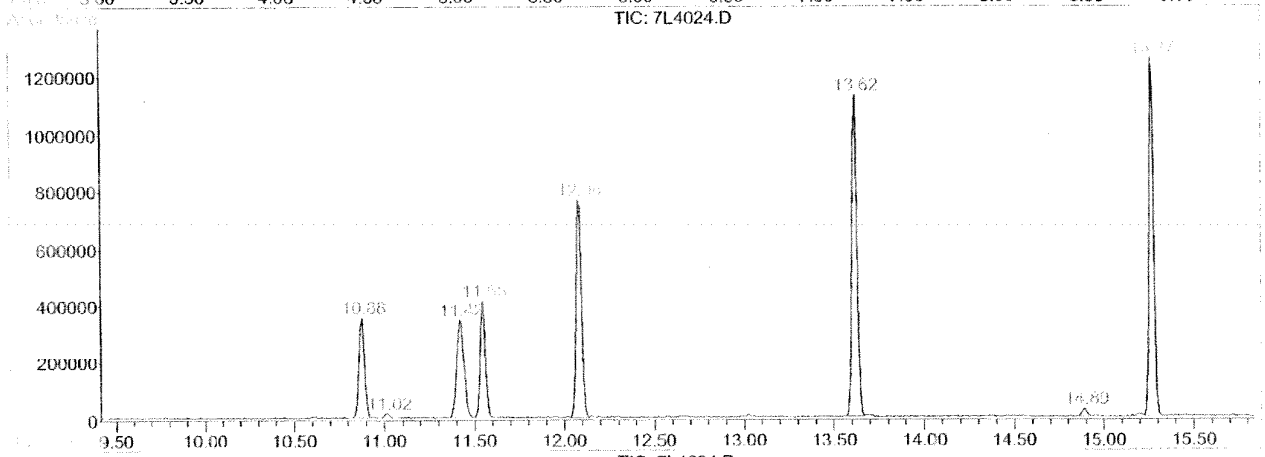
TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
unknown1	14.89	0.9	ug/L	41652	ISTD03	15.27	2235440	50.0

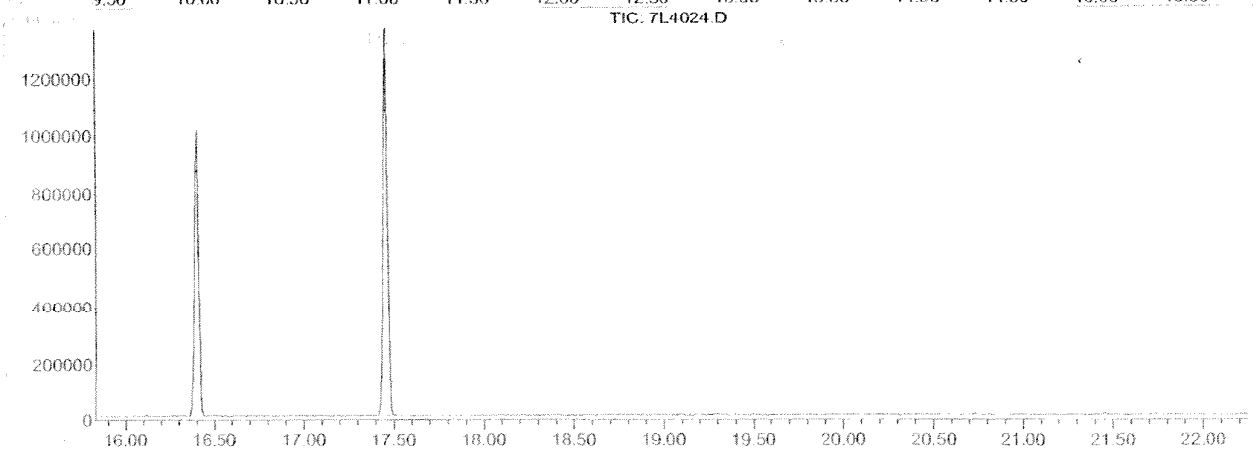
7L4024.D 8260W6L1.M Sun Dec 10 14:23:11 2006

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\20067L4\7L4024.D
Operator : jdb
Acquired : 4 Dec 2006 21:46 using AcqMethod 8260W6L1
Instrument : JVGCMS1
Sample Name: b610171 07
Misc Info :
Vial Number: 24
Quant File :8260W6L1.RES (RTE Integrator)







7L4024.D 8260W6L1.M Sun Dec 10 14:23:11 2006

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4024.D
Acq On : 4 Dec 2006 21:46
Sample : b610171-07
Misc :
MS Integration Params: lscint.p

Vial: 24
Operator: jdb
Inst : JVGCMS1
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Smoothing : ON
Sampling : 1
Start Thrs: 0.2
Stop Thrs : 0

Filtering: 5
Min Area: 100 Area counts
Max Peaks: 100
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.727	167	172	175	rBV	28351	65463	2.84%	0.511%
2	5.552	351	357	361	rBV6	6922	25055	1.09%	0.196%
3	8.372	640	643	650	rVB	14555	44234	1.92%	0.345%
4	10.877	889	897	902	rBV	350998	760871	33.04%	5.941%
5	11.016	906	911	918	rBV	16260	36819	1.60%	0.288%
6	11.420	945	952	960	rVB	342601	975069	42.34%	7.614%
7	11.548	960	965	974	rVB	406537	811558	35.24%	6.337%
8	12.081	1014	1019	1025	rBV	760416	1624579	70.54%	12.686%
9	13.619	1169	1175	1180	rBV	1123921	2303220	100.00%	17.985%
10	14.891	1299	1304	1308	rVB3	26988	51539	2.24%	0.402%
11	15.266	1338	1342	1348	rVB	1255448	2235437	97.06%	17.456%
12	16.400	1453	1457	1462	rBV	1009042	1651536	71.71%	12.896%
13	17.456	1559	1564	1571	rVB	1358223	2220916	96.43%	17.342%

Sum of corrected areas: 12806296

7L4024.D 8260W6L1.M Sun Dec 10 14:23:11 2006

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4031.D Vial: 31
Acq On : 5 Dec 2006 1:21 Operator: jdb
Sample : b610171-08 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:28 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) PENTAFLUOROBENZENE (IS)	11.42	168	273753	50.00 ug/L	-0.02
38) 1,4-DIFLUOROBENZENE (IS)	12.08	114	637772	50.00 ug/L	-0.02
55) CHLOROBENZENE-d5(IS)	15.27	117	658067	50.00 ug/L	-0.02
81) 1,4-DICHLOROBENZENE-d4(IS)	17.46	152	292855	50.00 ug/L	0.00

System Monitoring Compounds

34) Dibromofluoromethane (surr	10.88	113	228189	50.34 ug/L	0.00
Spiked Amount 50.000	Range 71 - 136		Recovery = 100.68%		
41) d4-1,2-Dichloroethane(surr	11.55	65	281766	46.29 µg/L	-0.02
Spiked Amount 50.000	Range 70 - 130		Recovery = 92.58%		
54) D8-Toluene (surr)	13.62	98	821746	49.35 ug/L	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 98.70%		
75) Bromofluorobenzene (surr)	16.40	95	367157	49.66 ug/L	0.00
Spiked Amount 50.000	Range 76 - 120		Recovery = 99.32%		

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.	
3) Chloromethane	0.00	50		N.D. d	
4) Vinyl Chloride	0.00	62		N.D.	
5) Bromomethane	5.57	94	385	-5.13 ug/L #	61
6) Chloroethane	0.00	64		N.D. d	
7) Trichlorofluoromethane	0.00	101		N.D.	
8) Ethanol	0.00	45		N.D. d	
9) 1,2-Dichloro-1,1,2-triflu	0.00	117		No Calib #	
10) acrolein	0.00	56		N.D. d	
11) 1,1,2Trichloro-1,2,2triflu	0.00	151		N.D.	
12) 1,1-Dichloroethene	0.00	96		N.D.	
13) Acetone	8.38	43	5347	3.50 ug/L	99
14) Iodomethane	0.00	142		N.D. d	
15) Carbon disulfide	0.00	76		N.D.	
16) Acetonitrile	0.00	41		N.D. d	
17) 3-chloropropene	0.00	41		N.D. d	
18) Methylene Chloride	8.32	84	1457	-1.24 ug/L #	67
19) Acrylonitrile	0.00	53		N.D.	
20) Methyl tert-butyl ether	0.00	73		N.D.	
21) t-1,2-Dichloroethene	0.00	96		N.D.	
22) 1,1-Dichloroethane	0.00	63		N.D.	
23) Vinyl Acetate	9.84	43	554	-20.60 ug/L #	9
24) Isopropyl ether	0.00	45		N.D.	
25) Chloroprene	0.00	88		N.D.	
26) 2-Butanone	0.00	72		N.D. d	
27) c-1,2-Dichloroethene	0.00	96		N.D.	
28) 2,2-Dichloropropane	0.00	77		N.D.	
29) Propionitrile	0.00	54		N.D. d	
30) Methacrylonitrile	0.00	41		N.D.	
31) Bromochloromethane	0.00	128		N.D.	
32) Chloroform	0.00	83		N.D.	
33) Dibromofluoromethane	10.88	113	228189	50.34 ug/L	79
35) 1,1,1-Trichloroethane	0.00	97		N.D.	
36) 1,1-Dichloropropene	0.00	75		N.D.	
37) Isobutyl alcohol	0.00	43		N.D. d	
39) Carbon Tetrachloride	0.00	117		N.D.	
40) d4-1,2-Dichloroethane	11.55	65	281766	46.29 µg/L #	80
42) 1,2-Dichloroethane	0.00	62		N.D.	
43) Benzene	0.00	78		N.D.	
44) Trichloroethene	0.00	130		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4031.D Vial: 31
Acq On : 5 Dec 2006 1:21 Operator: jdb
Sample : b610171-08 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:28 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

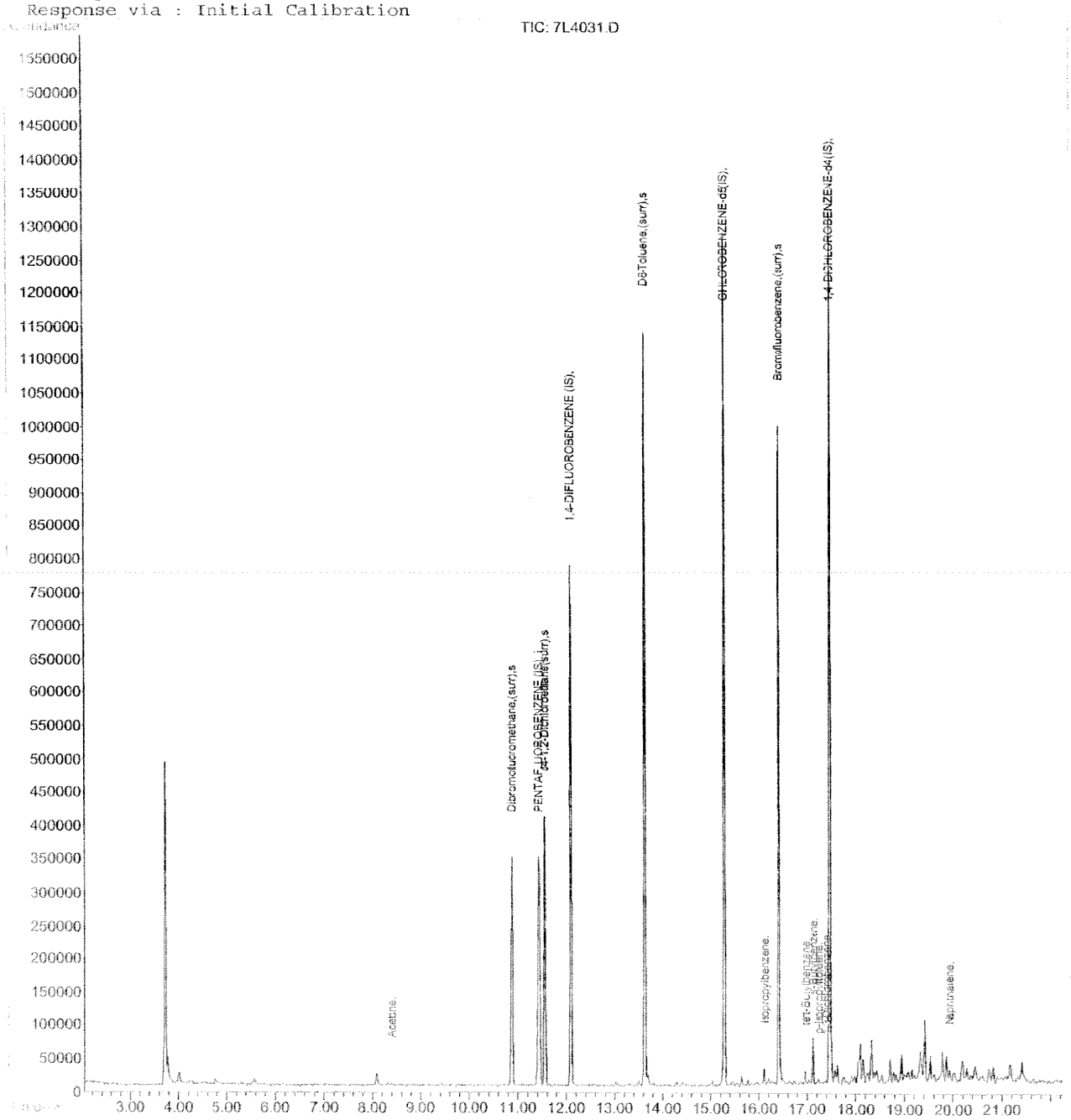
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) 1,2-Dichloropropane	0.00	63		N.D.	
46) Methyl methacrylate	0.00	69		N.D.	
47) 1,4-Dioxane	12.87	88	164	-2.11 ug/L #	16
48) Dibromomethane	0.00	93		N.D.	
49) Bromodichloromethane	0.00	83		N.D.	
50) 2-Chloroethyl vinyl ether	0.00	63		N.D. d	
51) C-1,3-Dichloropropene	0.00	75		N.D.	
52) 4-Methyl-2-pentanone	0.00	100		N.D. d	
53) D8-Toluene	13.62	98	821746	49.35 ug/L	99
56) Toluene	0.00	92		N.D.	
57) T-1,3-Dichloropropene	0.00	75		N.D.	
58) Ethyl methacrylate	0.00	69		N.D.	
59) 1,1,2-Trichloroethane	0.00	97		N.D. d	
60) 1,3-Dichloropropane	0.00	76		N.D.	
61) Tetrachloroethene	0.00	164		N.D. d	
62) 2-Hexanone	0.00	43		N.D.	
63) Dibromochloromethane	0.00	129		N.D.	
64) 1,2-Dibromoethane	0.00	107		N.D.	
65) Chlorobenzene	0.00	112		N.D.	
66) 1,1,1,2-Tetrachloroethane	0.00	131		N.D.	
67) Ethylbenzene	0.00	106		N.D.	
68) m-xylene & p-xylene	0.00	106		N.D.	
69) O-Xylene	0.00	106		N.D.	
70) Styrene	0.00	104		N.D.	
71) Bromoform	0.00	173		N.D. d	
72) Isopropylbenzene	16.11	105	15788	1.16 ug/L	88
73) C-1,4-Dichloro-2-butene	16.43	53	1478	-1.67 ug/L #	1
74) Bromofluorobenzene	16.40	95	367157	49.66 ug/L #	82
76) 1,1,2,2-Tetrachloroethane	0.00	83		N.D.	
77) Bromobenzene	0.00	156		N.D.	
78) 1,2,3-Trichloropropane	0.00	75		N.D.	
79) T-1,4-Dichloro-2-Butene	0.00	53		N.D.	
80) n-Propylbenzene	0.00	91		N.D.	
82) 2-Chlorotoluene	0.00	91		N.D.	
83) 1,3,5-Trimethylbenzene	0.00	105		N.D.	
84) 4-Chlorotoluene	0.00	91		N.D.	
85) tert-Butylbenzene	16.95	119	6993	0.74 ug/L	84
86) Pentachloroethane	0.00	167		No Calib #	
87) 1,2,4-Trimethylbenzene	0.00	105		N.D.	
88) s-Butylbenzene	17.11	105	33470	2.16 ug/L	87
89) 1,3-Dichlorobenzene	17.39	146	2188	0.32 ug/L	95
90) p-Isopropyltoluene	17.23	119	3105	0.27 ug/L	90
91) 1,4-Dichlorobenzene	0.00	146		N.D. d	
92) n-Butylbenzene	0.00	91		N.D. d	
93) 1,2-Dichlorobenzene	0.00	146		N.D.	
94) DBCP	0.00	157		N.D. d	
95) 1,2,4-Trichlorobenzene	0.00	180		N.D.	
96) Hexachlorobutadiene	0.00	225		N.D. d	
97) Naphthalene	19.92	128	4342	0.45 ug/L #	47
98) 1,2,3-Trichlorobenzene	0.00	180		N.D.	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4031.D Vial: 31
Acq On : 5 Dec 2006 1:21 Operator: jdb
Sample : b610171-08 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:28 2006 Quant Results File: 8260W6L1.RES

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration



Library Search Compound Report

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Data File : C:\HPCHEM\1\DATA\20067L4\7L4031.D            Vial: 31
Acq On    :  5 Dec 2006   1:21                        Operator: jdb
Sample    : b610171-08                                Inst    : JVGCMS1
Misc      :                                           Multiplr: 1.00
MS Integration Params: lscint.p

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title        : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library      : C:\DATABASE\NBS75K.L
```

****

Peak Number 1 Propene, hexafluoro- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.77	2.61 ug/L	51025	PENTAFLUOROBENZENE (IS)	11.42

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propene, hexafluoro-	150	C3F6	000116-15-4	72
2	Octanal, pentadecafluoro-	398	C8HF15O	000335-60-4	39
3	Propionaldehyde, ethylhydrazone	100	C5H12N2	007422-92-6	9
4	Isoxazole, 5-amino-4-bromo-3-phenyl	238	C9H7BrN2O	028884-13-1	9
5	Butanal, heptafluoro-	198	C4HF7O	000375-02-0	9

****

Peak Number 2 (E)-1-Phenyl-1-butene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.09	2.58 ug/L	117756	1,4-DICHLOROBENZENE-d4(IS)	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-1-Phenyl-1-butene	132	C10H12	001005-64-7	90
2	Benzene, 1-methyl-4-(2-propenyl)-	132	C10H12	003333-13-9	90
3	Benzene, 2-butenyl-	132	C10H12	001560-06-1	90
4	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	90
5	Benzene, 1-methyl-4-(1-methyletheny	132	C10H12	001195-32-0	87

****

Peak Number 3 1H-Indene, 2,3-dihydro-1,6-dim Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.32	1.63 ug/L	74702	1,4-DICHLOROBENZENE-d4(IS)	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-1,6-dimethyl	146	C11H14	017059-48-2	90
2	1H-Indene, 2,3-dihydro-1,1-dimethyl	146	C11H14	004912-92-9	87
3	Benzene, (1,1-dimethyl-2-propenyl)-	146	C11H14	018321-36-3	78
4	3-Phenyl-4,5-dimethyl-2,1-oxaborola	202	C13H19BO	000000-00-0	78
5	Naphthalene, 1,2,3,4 tetrahydro 1 m	146	C11H14	001559-81-5	72

Library Search Compound Report

```
Data File : C:\HPCHEM\1\DATA\20067L4\7L4031.D            Vial: 31
Acq On    :  5 Dec 2006   1:21                        Operator: jdb
Sample    : b610171-08                                 Inst    : JVGCMS1
Misc      :                                            Multiplr: 1.00
MS Integration Params: lscint.p

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title        : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library      : C:\DATABASE\NBS75K.L
```

****

Peak Number 4 1H-Indene, 2,3-dihydro-5-methy Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.93	1.31 ug/L	60021	1,4-DICHLOROBENZENE-d4(IS)	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	83
2	Indan, 1-methyl-	132	C10H12	000767-58-8	81
3	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	64
4	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	62
5	Indan, 1-methyl-	132	C10H12	000767-58-8	58

****

Peak Number 5 1H-Indene, 2,3-dihydro-4,7-dim Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.41	4.28 ug/L	195629	1,4-DICHLOROBENZENE-d4(IS)	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-4,7-dimethyl	146	C11H14	006682-71-9	86
2	1H-Indene, 2,3-dihydro-5,6-dimethyl	146	C11H14	001075-22-5	80
3	Benzene, (3-methyl-2-butenyl)-	146	C11H14	004489-84-3	80
4	1H-Indene, 2,3-dihydro-1,1-dimethyl	146	C11H14	004912-92-9	74
5	1H-Indene, 2,3-dihydro-4,7-dimethyl	146	C11H14	006682-71-9	58

****

Peak Number 6 Benzene, 1-(1-methylethenyl)-2 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.52	1.85 ug/L	84586	1,4-DICHLOROBENZENE-d4(IS)	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-(1-methylethenyl)-2-(1-m	160	C12H16	005557-93-7	91
2	1H-Indene, 2,3-dihydro-1,1,5-trimet	160	C12H16	040650-41-7	90
3	1H-Indene, 2,3-dihydro-1,1,3-trimet	160	C12H16	002613-76-5	90
4	1H-Indene, 2,3-dihydro-1,4,7-trimet	160	C12H16	054340-87-3	87
5	Naphthalene, 1,2,3,4-tetrahydro-1,8	160	C12H16	025419-33-4	87

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4031.D Vial: 31
Acq On : 5 Dec 2006 1:21 Operator: jdb
Sample : b610171-08 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: lscint.p

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library : C:\DATABASE\NBS75K.L

****
Peak Number 7 unknown1 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.77	2.38 ug/L	108701	1,4-DICHLOROBENZENE-d4(IS)	17.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methyl 3-phenylcyclobutane-1,1-dica	234	C13H14O4	000000-00-0	50
2	Acetamide, n-ethyl-N-phenyl-	163	C10H13NO	000529-65-7	47
3	Styrene	104	C8H8	000100-42-5	47
4	2-Methylbenzyl cyanide	131	C9H9N	022364-68-7	40
5	2,6-Piperidinedione, 3-phenyl-	189	C11H11NO2	014149-34-9	40

Tentatively Identified Compound (LSC) summary

Operator ID: jdb Date Acquired: 5 Dec 2006 1:21
Data File: C:\HPCHEM\1\DATA\20067L4\7L4031.D
Name: b610171-08
Misc:
Method: C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title: VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Propene, hexafluoro-	3.77	2.6	ug/L	51025	ISTD01	11.42	978376	50.0
(E)-1-Phenyl-1-buten	18.09	2.6	ug/L	117756	ISTD04	17.46	2285840	50.0
1H-Indene, 2,3-dihyd	18.32	1.6	ug/L	74702	ISTD04	17.46	2285840	50.0
1H-Indene, 2,3-dihyd	18.93	1.3	ug/L	60021	ISTD04	17.46	2285840	50.0
1H-Indene, 2,3-dihyd	19.41	4.3	ug/L	195629	ISTD04	17.46	2285840	50.0
Benzene, 1-(1-methyl	19.52	1.9	ug/L	84586	ISTD04	17.46	2285840	50.0
unknown1	19.77	2.4	ug/L	108701	ISTD04	17.46	2285840	50.0

7L4031.D 8260W6L1.M Sun Dec 10 14:28:18 2006

LSC Report - Integrated Chromatogram

```
File        : C:\HPCHEM\1\DATA\20067L4\7L4031.D
Operator    : jdb
Acquired    :  5 Dec 2006   1:21     using AcqMethod 8260W6L1
Instrument  :   JVGCMS1
Sample Name: b610171-08
Misc Info   :
Vial Number: 31
Quant File :8260W6L1.RES (RTE Integrator)
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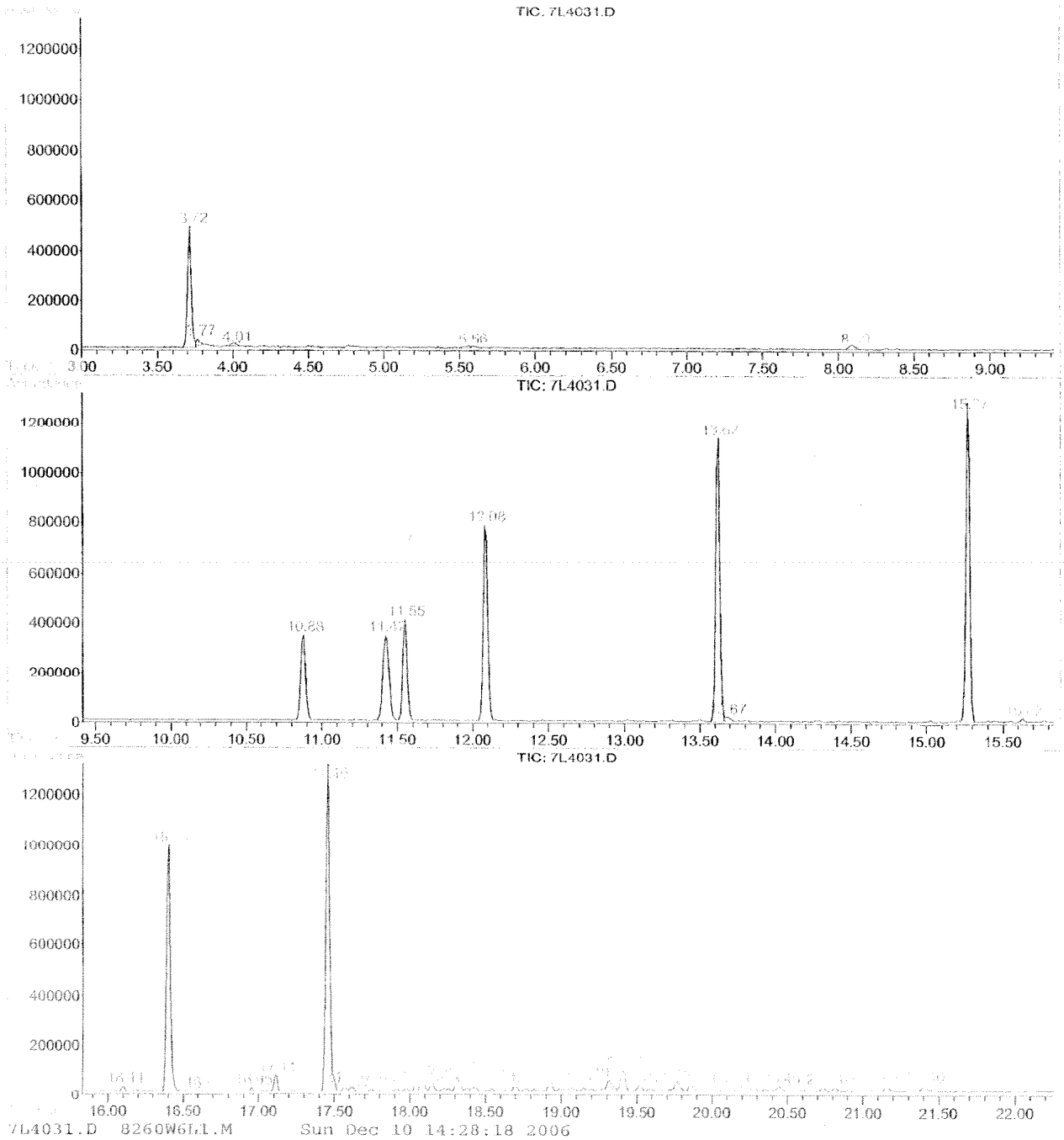

7L4031.D 8260W6L1.M Sun Dec 10 14:28:18 2006

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\20067L4\7L4031.D Vial: 31
Acq On : 5 Dec 2006 1:21 Operator: jdb
Sample : b610171-08 Inst : JVGCMS1
Misc : Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.719	165	171	175	rBV	486848	962541	41.77%	5.975%
2	3.769	175	176	181	rVB	32010	51025	2.21%	0.317%
3	4.005	197	200	204	rVB2	15455	35245	1.53%	0.219%
4	5.564	351	358	359	rBV2	10753	25377	1.10%	0.158%
5	8.088	610	614	621	rVB2	17891	47378	2.06%	0.294%
6	10.879	892	897	903	rBV	342676	731099	31.73%	4.538%
7	11.422	946	952	960	rVB	343518	978376	42.46%	6.073%
8	11.550	960	965	971	rBV	404899	807162	35.03%	5.010%
9	12.082	1014	1019	1025	rBV	780163	1617157	70.18%	10.038%
10	13.621	1169	1175	1179	rBV	1132591	2304381	100.00%	14.304%
11	13.670	1179	1180	1186	rVB4	14802	37417	1.62%	0.232%
12	15.268	1337	1342	1348	rVB	1280849	2234537	96.97%	13.870%
13	15.623	1374	1378	1382	rBV4	15505	35459	1.54%	0.220%
14	16.106	1424	1427	1431	rVB	24147	40566	1.76%	0.252%
15	16.402	1452	1457	1463	rBV	989887	1709411	74.18%	10.611%
16	16.629	1473	1480	1486	rVB	6988	24944	1.08%	0.155%
17	16.954	1509	1513	1516	rBV	19170	28372	1.23%	0.176%
18	17.112	1525	1529	1533	rVB	68244	119410	5.18%	0.741%
19	17.457	1559	1564	1572	rBV	1304566	2285837	99.20%	14.189%
20	17.566	1572	1575	1578	rVV4	18925	42699	1.85%	0.265%
21	17.615	1578	1580	1586	rVB2	28667	46917	2.04%	0.291%
22	17.743	1590	1593	1596	rBV4	11267	26789	1.16%	0.166%
23	17.921	1605	1611	1613	rBV6	12972	33865	1.47%	0.210%
24	17.970	1613	1616	1620	rVV5	12325	32117	1.39%	0.199%
25	18.049	1620	1624	1625	rVV2	33139	77515	3.36%	0.481%
26	18.089	1625	1628	1631	rVV	58913	117756	5.11%	0.731%
27	18.148	1631	1634	1638	rVV3	36849	76896	3.34%	0.477%
28	18.227	1638	1642	1644	rVV4	15618	37338	1.62%	0.232%
29	18.315	1648	1651	1655	rVV4	63660	132288	5.74%	0.821%
30	18.424	1659	1662	1666	rVB4	18428	47273	2.05%	0.293%
31	18.542	1671	1674	1677	rVB3	14194	29231	1.27%	0.181%
32	18.700	1686	1690	1694	rVB2	34802	64867	2.81%	0.403%
33	18.769	1694	1697	1700	rBV4	14871	30241	1.31%	0.188%
34	18.927	1710	1713	1717	rVV2	39494	78414	3.40%	0.487%
35	19.065	1725	1727	1732	rVV4	12670	30790	1.34%	0.191%
36	19.321	1749	1753	1755	rBV4	33103	67069	2.91%	0.416%
37	19.410	1758	1762	1766	rVB	90596	195629	8.49%	1.214%
38	19.519	1766	1773	1777	rBV2	39056	88922	3.86%	0.552%
39	19.597	1777	1781	1785	rVB7	10894	32855	1.43%	0.204%
40	19.765	1794	1798	1804	rVB	44373	108701	4.72%	0.675%
41	19.864	1804	1808	1811	rVV3	38764	78593	3.41%	0.488%
42	19.923	1811	1814	1820	rVV5	17398	43019	1.87%	0.267%
43	20.022	1820	1824	1831	rVB7	14383	44769	1.94%	0.278%
44	20.179	1836	1840	1844	rBV5	30547	70826	3.07%	0.440%

45	20.278	1847	1850	1855	rVV4	19841	40183	1.74%	0.249%
46	20.446	1862	1867	1874	rVB8	21814	64293	2.79%	0.399%
47	20.732	1892	1896	1900	rBV4	21170	52015	2.26%	0.323%
48	20.811	1900	1904	1909	rVB5	26235	69920	3.03%	0.434%
49	20.899	1909	1913	1916	rBV6	10522	29564	1.28%	0.184%
50	21.166	1936	1940	1946	rVB5	25349	70205	3.05%	0.436%
51	21.402	1960	1964	1971	rBV3	26766	72778	3.16%	0.452%

Sum of corrected areas: 16110031

7L4031.D 8260WGL1.M Sun Dec 10 14:28:17 2006

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\20067L4\7L4018.D Vial: 18
Acq On : 4 Dec 2006 18:42 Operator: jdb
Sample : h610171-01 Inst : JVCCMS1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 5 10:13 2006 Quant Results File: 8260W6L1.RES

Quant Method : C:\HPCHEM\1\METHODS\8260W6L1.M (RTE Integrator)
Title : VOLATILE ORGANIC ANALYSIS BY EPA 624/8260
Last Update : Fri Dec 01 11:40:58 2006
Response via : Initial Calibration
DataAcq Meth : 8260W6L1

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) PENTAFLUOROBENZENE (IS)	11.43	168	273658	50.00 ug/L	-0.01
38) 1,4-DIFLUOROBENZENE (IS)	12.09	114	628166	50.00 ug/L	-0.01
55) CHLOROBENZENE-d5(IS)	15.27	117	649720	50.00 ug/L	-0.01
81) 1,4-DICHLOROBENZENE-d4(IS)	17.46	152	285476	50.00 ug/L	0.00
System Monitoring Compounds					
34) Dibromofluoromethane (surr	10.87	113	229467	50.64 ug/L	-0.01
Spiked Amount 50.000 Range 71 - 136			Recovery = 101.28%		
41) d4-1,2-Dichloroethane(surr	11.55	65	284006	47.37 µg/L	-0.01
Spiked Amount 50.000 Range 70 - 130			Recovery = 94.74%		
54) D8-Toluene (surr)	13.63	98	818549	49.91 ug/L	0.00
Spiked Amount 50.000 Range 75 - 126			Recovery = 99.82%		
75) Bromofluorobenzene (surr)	16.40	95	357754	49.01 ug/L	-0.01
Spiked Amount 50.000 Range 76 - 120			Recovery = 98.02%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.00	85		N.D.	
3) Chloromethane	0.00	50		N.D.	
4) Vinyl Chloride	0.00	62		N.D.	
5) Bromomethane	5.57	94	775	-4.96 ug/L	87
6) Chloroethane	0.00	64		N.D. d	
7) Trichlorofluoromethane	0.00	101		N.D.	
8) Ethanol	6.91	45	282	-61.16 ug/L	72
9) 1,2-Dichloro-1,1,2-triflur	0.00	117		No Calib #	
10) acrolein	0.00	56		N.D.	
11) 1,1,2Trichloro-1,2,2triflu	0.00	151		N.D.	
12) 1,1-Dichloroethene	0.00	96		N.D.	
13) Acetone	0.00	43		N.D. d	
14) Iodomethane	0.00	142		N.D. d	
15) Carbon disulfide	0.00	76		N.D.	
16) Acetonitrile	0.00	41		N.D. d	
17) 3-chloropropene	0.00	41		N.D.	
18) Methylene Chloride	8.33	84	1107	-1.32 ug/L #	57
19) Acrylonitrile	0.00	53		N.D.	
20) Methyl tert-butyl ether	0.00	73		N.D.	
21) t-1,2-Dichloroethene	0.00	96		N.D.	
22) 1,1-Dichloroethane	0.00	63		N.D.	
23) Vinyl Acetate	9.89	43	513	-20.61 ug/L	67
24) Isopropyl ether	0.00	45		N.D.	
25) Chloroprene	0.00	88		N.D.	
26) 2-Butanone	0.00	72		N.D. d	
27) c-1,2-Dichloroethene	0.00	96		N.D.	
28) 2,2-Dichloropropane	0.00	77		N.D.	
29) Propionitrile	0.00	54		N.D. d	
30) Methacrylonitrile	0.00	41		N.D.	
31) Bromochloromethane	0.00	128		N.D.	
32) Chloroform	0.00	83		N.D.	
33) Dibromofluoromethane	10.87	113	229467	50.64 ug/L	80
35) 1,1,1-Trichloroethane	0.00	97		N.D.	
36) 1,1-Dichloropropene	0.00	75		N.D.	
37) Isobutyl alcohol	0.00	43		N.D. d	
39) Carbon Tetrachloride	0.00	117		N.D.	
40) d4-1,2-Dichloroethane	11.55	65	284006	47.37 µg/L #	79
42) 1,2-Dichloroethane	0.00	62		N.D.	
43) Benzene	0.00	78		N.D.	
44) Trichloroethene	0.00	130		N.D.	

(#) = qualifier out of range (m) = manual integration
7L4018.D 8260W6L1.M Sun Dec 10 14:14:11 2006