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Alaska District**

**GAMBELL FUDS REMEDIAL
INVESTIGATION
GAMBELL, ALASKA**

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**AUGUST 2006 GROUNDWATER
SAMPLING REPORT
REVISED FINAL
JULY 2007**



111 W. 16th Avenue, Third Floor
Anchorage, Alaska 99501-5109
Phone (907) 743-9399
Fax (907) 743-9398

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ACRONYMS AND ABBREVIATIONS

°C	degrees centigrade
AK	State of Alaska Method
ADEC	Alaska Department of Environmental Conservation
Bristol	Bristol Construction Services, LLC
BTEX	benzene, toluene, ethylbenzene, and total xylenes
COC	contaminant of concern
DO	dissolved oxygen
DRO	diesel-range organics
EPA	U.S. Environmental Protection Agency
GRO	gasoline-range organics
IDW	investigation-derived waste
MDL	method detection limit
mg/L	milligrams per liter
mV	millivolts
NTU	nephelometric turbidity unit
ORP	oxygen reduction potential
PAH	polynuclear aromatic hydrocarbons
ppt	parts per thousand
PQL	practical quantitation limit
PWS	Gambell public water system well
QA	quality assurance
QC	quality control
RRO	residual-range organics
SGS	SGS Environmental Services, Inc.
STL	Severn Trent Laboratories
SW	EPA Solid Waste Method
USACE	U.S. Army Corps of Engineers

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1 **1.0 INTRODUCTION**

2 This Groundwater Monitoring Report has been developed for the U.S. Army Corps of
3 Engineers (USACE), Alaska District, under Contract No. W911KB-05-P-103, for the
4 Gambell Formerly Used Defense Site Remedial Investigation. Groundwater sampling was
5 scheduled to be performed three times during 2005-2006. By sampling in different months,
6 groundwater monitoring was planned to coincide with both high and low water events. This
7 report discusses the third of three groundwater sampling events. Groundwater sampling was
8 performed by Bristol Construction Services, LLC (Bristol), in Gambell, Alaska, during
9 August 2006. Field activities were conducted on August 16 and 17, 2006, in accordance with
10 the requirements in a work plan prepared by Bristol (Bristol, 2005a).

11 **1.1 OBJECTIVES**

12 The primary objective of the groundwater sampling was to monitor the concentrations of
13 target analytes in the area adjacent the City of Gambell's water supply (Site 5), groundwater
14 depths, and flow direction. Gambell's water is supplied by a single infiltration gallery,
15 located approximately 2,000 feet east of the townsite, at the base of Sevuokuk Mountain.
16 Water derived from the gallery is considered to be surface-influenced and potentially
17 susceptible to contamination.

18 **1.2 REPORT ORGANIZATION**

19 This report is organized into five sections, as described below:

- 20 • Section 1.0 contains introductory information, and describes the objectives and the
21 organization of the report. The report also contains a discussion of the site setting,
22 including the site history and potential contaminants of concern (COCs).
- 23 • Section 2.0 contains information on the general physical setting, geology, and
24 groundwater hydrology.
- 25 • Section 3.0 contains information on the field procedures, including those for
26 groundwater sampling. Deviations from the work plan, quality assurance/quality
27 control (QA/QC) samples, decontamination methods, and investigation-derived waste
28 (IDW) disposal, are also discussed.
- 29 • Section 4.0 presents the analytical results.
- 30 • Section 5.0 contains the references used in this report.

1 **1.3 SITE SETTING**

2 Gambell is located on the northwest tip of St. Lawrence Island, in the western portion of the
3 Bering Sea, approximately 195 miles southwest of Nome, Alaska. Gambell is approximately
4 50 miles from the Siberian Chukotsk Peninsula (Figure 1). The village of Gambell is built on
5 a gravel spit, projecting north and west from the island (Figure 2). Gambell is located at an
6 elevation of approximately 30 feet above mean sea level. Native Yup'ik people, who lead a
7 subsistence-based lifestyle, inhabit the village.

8 **1.3.1 Site History**

9 The Gambell area was used by the U.S. Army, U.S. Navy, and the U.S. Air Force from
10 approximately 1948 until the late 1950s. Various facilities around the village of Gambell
11 were constructed to provide housing, communication, and other functions.

12 **1.3.2 Chemicals of Concern**

13 The potential COCs at Site 5 are dissolved petroleum hydrocarbons and metals. The main
14 COCs for groundwater are: gasoline-range organics (GRO); diesel-range organics (DRO);
15 residual-range organics (RRO); benzene, toluene, ethylbenzene, and total xylenes (BTEX);
16 polynuclear aromatic hydrocarbons (PAH), and the metals arsenic, barium, cadmium,
17 chromium, lead, nickel, and vanadium.

1 **2.0 GENERAL ENVIRONMENTAL SETTING**

2 **2.1 PHYSICAL SETTING**

3 The locations of the seven groundwater monitoring wells, and the public water system well
4 house at Site 5, are shown on Figure 3. Site 5 is the location of the village's water supply.
5 Gambell's water is supplied by a single infiltration gallery, located approximately 2,000 feet
6 east of the townsite, at the base of the Sevuokuk Mountain. The infiltration gallery was
7 constructed in 1996. Water derived from the gallery is considered to be surface-influenced,
8 and potentially susceptible to contamination.

9 **2.2 GEOLOGY**

10 St. Lawrence Island consists of isolated bedrock highlands of igneous, metamorphic, and
11 older sedimentary rocks, surrounded by unconsolidated surficial deposits, overlying a
12 relatively shallow erosional bedrock surface. The Gambell village area is underlain by highly
13 permeable unconsolidated gravels and coarse sands. The gravels have strong linear
14 topographic expressions, and were likely deposited as successive beach ridges. The gravels
15 may be deposited on an underlying wave-cut terrace of the same bedrock that comprises
16 Sevuokuk Mountain (Patton and Cjeltsey, 1980).

17 Sevuokuk Mountain is composed of quartz monzonite, a gray, coarsely crystalline rock, rich
18 in quartz and feldspars. The mountain is topped by a flat, wave-cut plateau. Beach material
19 is primarily cobble (one-inch stones) with some coarse sand.

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1 **3.0 GROUNDWATER MONITORING ACTIVITIES**

2 Fieldwork was performed on August 16 and 17, 2006. Fieldwork performed included the
3 following:

- 4 • Collecting groundwater samples from six monitoring wells for analysis,
- 5 • Collecting a sample from the Public Water System (PWS) well, and
- 6 • Measuring and recording the depth to groundwater and field parameters.

7 Water from the PWS well was collected from a tap prior to the village's holding tank and
8 chlorination system. Water was collected downstream of the system's "roughing filter" which
9 removes large particles.

10 Field activities are documented in the groundwater sampling forms (Appendix A).

11 **3.1 GROUNDWATER SAMPLING**

12 Field parameters were measured from each well after purging a minimum of three well
13 volumes. Purging was continued until field measurements stabilized. Field measurements
14 were taken for temperature, specific conductance, conductivity, salinity, dissolved oxygen
15 (DO), pH, and oxidation-reduction potential (ORP), using a YSI 556 water quality meter.
16 Turbidity was measured using a Hach 2100P turbidimeter.

17 Samples were collected in accordance with the sampling procedures outlined in the sampling
18 and analysis plan prepared by Bristol (Bristol, 2005b), with the following exception: water
19 was purged and samples were collected via a peristaltic pump, not by bailers. This was done
20 because DO and ORP results were inconsistent during the September 2005 sampling event,
21 possibly due to aeration during bailing. Field personnel followed laboratory instructions for
22 field sample preservation. Analytical laboratory services were provided by SGS
23 Environmental Services, Inc. (SGS), in Anchorage, Alaska. QA samples were sent to Severn
24 Trent Laboratories, (STL) in Seattle, Washington.

25 During the August 2006 sampling event, six monitoring wells (MW-14, MW-15, MW-29,
26 MW-30, MW-31, and MW-32) and the PWS were sampled. Groundwater samples were
27 analyzed for GRO, using State of Alaska Method (AK)101; BTEX by U.S. Environmental

1 Protection Agency (EPA) Solid Waste Method (SW) 8260B; DRO by AK102; RRO by
2 AK103; PAH by EPA Method SW8270C selective ion monitoring; and arsenic, barium,
3 cadmium, chromium, lead, nickel, and vanadium, by EPA Method SW6020. MW-31 was
4 sampled only for GRO/BTEX and metals because of low sample volume. Groundwater
5 sample data sheets are presented in Appendix A.

6 **3.2 QUALITY ASSURANCE/QUALITY CONTROL SAMPLES**

7 QA/QC samples and trip blanks were collected as part of the groundwater sampling event.
8 Matrix spike/matrix spike duplicate samples were collected during the second round of
9 sampling. QA/QC samples were collected, using the same sampling techniques and flow
10 rates as primary samples. The QA/QC analytical results are discussed in Section 4.3.2.

11 **3.3 DECONTAMINATION METHODS**

12 The water level meter and YSI 556 meter were decontaminated between samples using an
13 Alconox[®] and distilled water solution, followed by a distilled water rinse. Each well was
14 purged using a new length of Teflon[®]/silicon tubing.

15 **3.4 INVESTIGATION-DERIVED WASTE DISPOSAL**

16 Investigation-derived waste (IDW) consisted of purge water, decontamination water, used
17 tubing, and personal protective equipment. As per direction from the USACE project
18 manager and Alaska Department of Environmental Conservation (ADEC) representative
19 during the first sampling event, and based upon the historically clean status of the wells, IDW
20 water was discharged to the ground. Used tubing, gloves, and miscellaneous sampling and
21 decontamination items, were disposed of as municipal waste.

22 **3.5 DEVIATIONS FROM THE WORK PLAN**

23 There were no deviations from the work plan, with the exception of disposal of IDW and use
24 of a peristaltic pump for purging wells.

1 **4.0 FINDINGS**

2 Conditions observed at the site, measurements taken, and analytical results, are presented in
3 this section.

4 **4.1 HYDROGEOLOGY**

5 Groundwater levels in all monitoring wells at the site were measured by Bristol on August 16,
6 2006. All water level measurements were performed within an 8-hour period. MW-28 was
7 dry and appeared to be filled with gravel to 3.75 feet below ground surface. Survey
8 information, water depth for the August 2006 sampling event, and water elevation data for the
9 September 2005, July 2006, and August 2006 sampling events are presented in Table 1.

10 For the September 2005 Groundwater Sampling Report, groundwater elevations were based
11 upon well casing elevations as presented in well boring logs. Because of the possibility that
12 seasonal frost action may have moved the well casings, introducing error into the elevation
13 data, the wells were surveyed by Mr. Scott McClintock, the registered surveyor, as part of
14 Bristol's July 2006 scope of work. The data from these surveys was used to redraw the
15 groundwater elevation contours for September 2005. The corrected September 2005
16 Groundwater Surface Elevation Contour is presented as Figure 4, the July 2006 Groundwater
17 Surface Elevation Contour is presented as Figure 5, and the August 2006 Groundwater
18 Surface Elevation Contour is presented as Figure 6.

19 The groundwater surface elevation data presented on Figures 4 through 6 indicate that:

- 20
- 21 • The predominant groundwater flow direction during the summer months in the
22 vicinity of the village well is to the northeast, parallel to the toe of the Sevuokuk
Mountain;
 - 23 • The effects of pumping the village well can be seen on the groundwater surface
24 elevation data. Pumping the village well results in the groundwater surface gradient
25 becoming steeper upgradient (southwest) of the village well; and
 - 26 • The groundwater table dropped approximately one foot between the July 2006 and
27 August 2006 sampling events. This is probably a seasonal event caused by lower
28 groundwater recharge rates in late summer.

1 **Table 1 Water Level Measurements**

Monitoring Well	Location Coordinates			Depth to Water (feet)	Total Depth (feet)	Water Column Depth (feet)	Water Elevation Sept 2005 (feet)	Water Elevation July 2006 (feet)	Water Elevation Aug 2006 (feet)
	Northing (feet) ^a	Easting (feet) ^a	Surveyed Elevation (feet MSL) ^b						
PWS ^c	3575838.82	1364299.53	--	9.35 ^d	--	--	--	--	--
MW-14	3576453.51	1365197.10	10.31	10.34	10.86	0.51	1.46	1.17	-0.03
MW-15	3576159.64	1364950.35	10.11	9.80	12.48	2.68	1.90	1.65	0.31
MW-28 ^e	3576075.32	1364551.00	13.03	dry	dry	dry	dry	dry	dry
MW-29	3575964.51	1364744.78	12.39	11.46	15.00	3.54	2.57	2.35	0.93
MW-30	3576382.91	1364939.07	10.08	9.84	11.30	1.46	1.78	1.52	0.24
MW-31	3576201.86	1364658.05	13.60	12.34	12.76	0.42	2.40	2.16	1.26
MW-32	3576026.55	1364844.09	13.28	12.90	15.02	2.12	1.96	1.78	0.38

2 Notes:

3 ^aLocation coordinates for all monitoring wells are in NAD 83 Zone SPC AK 9.

4 ^bSurveyed elevations for monitoring wells are from top of casing.

5 ^cLocation coordinates for PWS were collected from outside the fence on the north side of the well house by GPS and were converted to NAD 83 Zone SPC AK 9.

6 ^dDepth to water information recorded by the City of Gambell.

7 ^eMW-28 appeared to be filled with gravel.

- = not available NAD = North American Datum of 1983
- GPS = Global Positioning System PWS = Gambell Public Water System Well
- MSL = mean sea level SPC = Alaska State Plane Coordinate System
- MW = Monitoring Well

8

1 Well depth measurements from the original boring logs, as well as all three sampling events,
 2 are presented in Table 2.

3 **Table 2 Well Depth Measurements**

Monitoring Well	Well Depth from Top of Casing			
	Initial Well Depth ^a	September 2005	July 2006	August 2006
MW-14	11.75	10.75	10.86	10.86
MW-15	12.75	12.28	12.40	12.48
MW-28 ^b	16.02	3.37	not measured	not measured
MW-29	15.41	14.90	15.04	15.00
MW-30	12.48	10.91	11.36	11.30
MW-31	15.80	12.36	12.78	12.76
MW-32	15.89	14.41	14.82	15.02

4 Notes:

5 ^aWell depth was obtained from boring logs. The length used was from the total depth of casing to top of casing.

6 ^bMW-28 appeared to be filled with gravel during the September 2005 sampling event.

7 MW = monitoring well

8 Well depth measurements appeared to change between the September 2005 and the July 2006
 9 sampling events. The total well depth, as measured during each of these events, was
 10 compared to the original boring logs. With the exception of MW-28, which had been filled
 11 with gravel sometime between development and the September 2005 sampling event, MWs
 12 ranged from 0.47 feet to 3.44 feet shallower during the September 2005 sampling event than
 13 is stated on the boring logs.

14 It is possible that sediment and small particles gathered in the bottom of the well between
 15 their original development and the September 2005 sampling event. Some of this sediment
 16 could easily have been displaced during sampling in September 2005 because of the use of
 17 bailers for sampling. Because well depth was measured in all cases before field screening and
 18 sampling, the change in well depth would not have been noticed until the next sampling event.
 19 The lack of significant change in well depth between the July 2006 and August 2006 sampling
 20 events supports this conclusion since a peristaltic pump, which causes less disturbance to
 21 sediment at the bottom of the well, was used during the July 2006 and August 2006 sampling
 22 events. Given this explanation, well depth measurements taken in August 2006 would not be
 23 expected to be significantly different from those taken in July 2006: use of a peristaltic pump
 24 for sampling in July 2006 would limit the amount of sediment and small particles disturbed

1 from the bottom of the well and removed during sampling. The short time between sampling
2 events would provide little opportunity for additional sediment to be laid down before the
3 August 2006 sampling event.

4 **4.2 FIELD PARAMETER DATA**

5 Groundwater samples were measured for the following field parameters: temperature,
6 specific conductance, conductivity, salinity, DO, pH, ORP, and turbidity. Field parameter
7 measurements are presented in Table 3. Because of the potential for bailing to allow the
8 sample to oxygenate, wells were purged using a peristaltic pump. The water was put through
9 a flow-through cell where field parameters were taken. Field parameters and samples for
10 PWS were collected from a tap in the well house because collection directly from the well
11 was not possible with the existing plumbing. PWS samples were collected from the same tap
12 during all sampling events. The samples were collected after the roughing filter, which may
13 decrease turbidity measurements.

14 Temperature results ranged between 0.82 degrees centigrade ($^{\circ}\text{C}$) and 4.02°C . For all
15 sampling locations DO ranged from 7.87 milligrams per liter (mg/L) to 13.12 mg/L. One
16 hundred percent saturation at 1.0°C occurs at 14 mg/L. MW-31 DO is very close to complete
17 saturation. Normally, a well is purged until at least three well volumes is removed (and field
18 measurements equalize) before a sample is collected to make sure that the water being tested
19 is representative of the water in the aquifer surrounding the well, and not the water that had
20 been sitting in the well. The water sitting in the well has been exposed to different conditions,
21 for example, it is exposed directly to the atmosphere (via the open well casing). This can
22 affect field measurements (such as DO and redox), as well as analytical measurements. For
23 example, water that may have DRO and be exposed to air (thus a higher DO than otherwise
24 found in water in the aquifer) may be biodegraded and, therefore, have lower levels of DRO
25 than is found in the surrounding aquifer.

26 Because MW-31 could not be purged adequately, the oxygen measurements from the well did
27 not reflect the water in the aquifer as much as it reflected water sitting in the well (which had
28 been exposed to air and was probably fully oxygenated because of that). Because MW-31 did
29 not recharge quickly enough to allow three well volumes to be purged (or to allow the field

1 parameters to equalize) before water samples were collected, the DO levels measured in MW-
 2 31 must be considered questionable.

3 The field parameter data for most sampling locations are consistent with some variations; the
 4 specific conductance, conductivity, salinity, and turbidity for MW-31 are much higher than
 5 for other locations. Specific conductance, conductivity, and salinity measurements are
 6 related. The relatively high levels of salinity in MW-31 may cause the high specific
 7 conductance and conductivity results. Groundwater was field-screened for salinity to
 8 determine if saltwater intrusion was an issue. Salinity results for all monitoring wells, with
 9 the exception of MW-31, were between 0.08 parts per thousand (ppt) (80 mg/L) and 0.15 ppt
 10 (150 mg/L). This is below the ADEC drinking water criteria of 250 mg/L for sodium and
 11 chloride. Salinity results for MW-31 were 0.30 ppt (300 mg/L), which is higher than the
 12 ADEC drinking water criteria of 250 mg/L for sodium and chloride.

13 **Table 3 Groundwater Field Parameters**

Parameter	Units	PWS ^a	MW-14	MW-15	MW-29	MW-30	MW-31 ^b	MW-32
Temperature	°C	1.74	2.67	4.02	5.33	0.82	3.07	2.46
Specific Conductance	µS/cm	105	103	99	166	176	367	140
Conductivity	mS/cm	0.188	0.1180	0.165	0.267	0.326	0.630	0.245
Salinity	ppt	0.09	0.08	0.08	0.13	0.15	0.30	0.12
Dissolved Oxygen	mg/L	10.56	10.83	8.46	7.87	12.64	13.12	9.30
pH	pH units	5.81	5.67	4.98	5.00	7.05	6.38	4.82
ORP	mV	142.4	253.8	298.2	294.6	183.5	225.2	283.7
Turbidity	NTU	0.34	0.36	0.95	0.13	0.72	176	0.33

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Notes:
 Wells were purged until field parameters stabilized, with a minimum of three well volumes purged from each well. Final field parameter results are presented.
 a = PWS samples were collected from within the well house and after a roughing filter; turbidity results may be biased low.
 b = MW-31 contained approximately 0.5 liter of water. The lowest pump setting was used, and the well was allowed to recover. Water level recovered 1.5 inches within eight hours. Groundwater field parameters were taken from initial pumping before well stabilization.

°C	=	degrees centigrade	NTU	=	nephelometric turbidity unit(s)
µS/cm	=	microsiemens per centimeter, adjusted for temperature	ORP	=	oxygen reduction potential
mg/L	=	milligrams per liter	pH	=	potential hydrogen
mS/cm	=	millisiemens per centimeter	ppt	=	parts per thousand
mV	=	millivolts	PWS	=	Gambell public water system well
MW	=	monitoring well			

1 Turbidity results for all samples, with the exception of MW-31, were below 1.0 nephelometric
2 turbidity unit (NTU). The turbidity result for MW-31 was 176 NTUs. This is very likely due
3 to the low water level in MW-31 and the fact that it did not recharge in a reasonable time.
4 Therefore, any water pulled from this well was not reflective of the water surrounding the
5 well, but contained particles.

6 The pH results average for MW-30 and MW-31 are also higher with pH measured at 7.05 and
7 6.38, respectively, compared to an average of 5.26. ORP levels for all sampling locations
8 ranged between 142.4 millivolts (mV) at PWS to 298.2 mV at MW-15.

9 **4.3 ANALYTICAL DATA**

10 A summary of groundwater analytical results from the August 2006 groundwater sampling
11 event is presented below. The complete laboratory data package is provided in Appendix B.

12 **4.3.1 Groundwater**

13 Analytical results for groundwater samples collected during the August 2006 groundwater
14 sampling are presented in Table 4. Analytical results for trip blanks are presented in Table 5.

15 No analytes were detected in the groundwater samples at, or above, their respective cleanup
16 levels. Monitoring well MW-30, MW-30 QC duplicate, MW-30 QA duplicate, and PWS
17 contained DRO at 0.495 mg/L, 0.71 mg/L, 0.736 mg/L, and 0.0699 mg/L, respectively. The
18 cleanup level for DRO is 1.5 mg/L. DRO chromatograms for MW-30, MW-30 QC duplicate,
19 and MW-30 QA duplicate, showed patterns that may be consistent with a highly weathered
20 middle distillate fuel. The DRO result from PWS was between the practical quantitation limit
21 (PQL) and the method detection limit (MDL); therefore, amounts of DRO cannot be
22 accurately quantified. The DRO chromatogram for PWS was not consistent with a middle
23 distillate fuel. In the opinion of the Project Chemist, the PWS chromatographic pattern
24 cannot be definitively identified. It is not consistent with the pattern of a middle distillate (for
25 example, it does not have a single large peak of a gaussian-type curve that is commonly seen in
26 chromatograms of middle distillate fuels such as Diesel Fuel #2).

1 Monitoring well MW-30, MW-30 QC duplicate, MW-30 QA duplicate, and PWS contained
2 RRO at 0.113 mg/L, 0.073 mg/L, 0.110 mg/L, and 0.170 mg/L, respectively. All RRO results
3 were between the PQL and MDL; therefore, amounts of RRO cannot be accurately quantified.
4 The RRO chromatogram for PWS was not consistent with a middle distillate fuel. In the
5 opinion of the Project Chemist, the PWS chromatographic pattern cannot be definitively
6 identified. It is not consistent with the pattern of a middle distillate (for example, it does not
7 have a single large peak of a gaussian-type curve that is commonly seen in chromatograms of
8 middle distillate fuels such as Diesel Fuel #2).

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Table 4 Groundwater Analytical Results

Sample Number				06GAM05GS17	06GAM05GS22	06GAM05GS23	06GAM05GS25	06GAM05GS19	06GAM05GS21	06GAM05GS20	06GAM05GS18	06GAM05GS24
Location				PWS	MW-14	MW-15	MW-29	MW-30	MW-30	MW-30	MW-31	MW-32
Duplicate of									06GAM05GS19	06GAM05GS19		
Parameter	Test Method	Units	Cleanup Levels ^a									
GRO/BTEX												
GRO	AK101	mg/L	1.3	ND (0.100)	0.0114 NJ, TB, B	ND (0.100)	ND (0.100)	0.0171 NJ, TB, B	0.0144 NJ, TB, B	ND (0.050)	ND (0.100)	ND (0.100)
Benzene	SW8260B	µg/L	5	ND (0.400)	ND (0.400)	ND (0.400)	ND (0.400)	ND (0.400)	ND (0.400)	ND (0.10)	ND (0.400) JL	ND (0.400)
Toluene	SW8260B	µg/L	1,000	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)	0.010 NJ, TB, B	ND (1.00) JL	ND (1.00)
Ethylbenzene	SW8260B	µg/L	700	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.00)	ND (0.10)	ND (1.00) JL	ND (1.00)
Total Xylenes	SW8260B	µg/L	10,000	ND (3.00)	ND (3.00)	ND (3.00)	ND (3.00)	ND (3.00)	ND (3.00)	ND (0.10)	ND (3.00) JL	ND (3.00)
DRO/RRO												
DRO	AK102	mg/L	1.5	0.0699 NJ	ND (0.300)	ND (0.300)	ND (0.300)	0.495	0.736	0.71	--	ND (0.300)
RRO	AK103	mg/L	1.1	0.170 NJ, B	ND (0.500)	ND (0.500)	ND (0.500)	0.113 NJ	0.110 NJ	0.073 NJ	--	ND (0.500)
Polynuclear Aromatic Hydrocarbons												
Acenaphthene	SW8270C SIM	µg/L	2,200	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.10)	--	ND (0.0500)
Acenaphthylene	SW8270C SIM	µg/L	2,200 ^b	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.10)	--	ND (0.0500)
Anthracene	SW8270C SIM	µg/L	11,000	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.10)	--	ND (0.0500)
Benzo(a)anthracene	SW8270C SIM	µg/L	1	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.10)	--	ND (0.0500)
Benzo(a)pyrene	SW8270C SIM	µg/L	0.2	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.10)	--	ND (0.0500)
Benzo(b)fluoranthene	SW8270C SIM	µg/L	1	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.10)	--	ND (0.0500)
Benzo(g,h,i)perylene	SW8270C SIM	µg/L	1,100 ^b	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.10)	--	ND (0.0500)
Benzo(k)fluoranthene	SW8270C SIM	µg/L	10	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	--	--	ND (0.0500)
Chrysene	SW8270C SIM	µg/L	100	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.10)	--	ND (0.0500)
Dibenzo(a,h)anthracene	SW8270C SIM	µg/L	0.1	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.10)	--	ND (0.0500)
Fluoranthene	SW8270C SIM	µg/L	1,460	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.10)	--	ND (0.0500)
Fluorene	SW8270C SIM	µg/L	1,460	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.10)	--	ND (0.0500)
Indeno(1,2,3-c,d)pyrene	SW8270C SIM	µg/L	1	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.10)	--	ND (0.0500)
Naphthalene	SW8270C SIM	µg/L	700	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	ND (0.100)	0.0070 NJ, JH	--	ND (0.100)
Phenanthrene	SW8270C SIM	µg/L	11,000 ^b	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.10)	--	ND (0.0500)
Pyrene	SW8270C SIM	µg/L	1,100	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.0500)	ND (0.10)	--	ND (0.0500)

Table 4 Groundwater Analytical Results (continued)

Sample Number				06GAM05GS17	06GAM05GS22	06GAM05GS23	06GAM05GS25	06GAM05GS19	06GAM05GS21	06GAM05GS20	06GAM05GS18	06GAM05GS24
Location				PWS	MW-14	MW-15	MW-29	MW-30	MW-30	MW-30	MW-31	MW-32
Duplicate of									06GAM05GS19	06GAM05GS19		
Parameter	Test Method	Units	Cleanup Levels ^a									
Total Metals												
Arsenic	SW6020	µg/L	50	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	0.93 NJ, J	ND (10.0)	ND (10.0)
Barium	SW6020	µg/L	2,000	3.56 B	6.61 B	7.55 B	19.5	ND (3.00)	ND (3.00)	0.54 NJ, J	12.3	13.7
Cadmium	SW6020	µg/L	5	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.00)	ND (2.0) J	ND (2.00)	ND (2.00)
Chromium	SW6020	µg/L	100	5.83	4.97	9.09	7.69	ND (4.00)	ND (4.00)	3.5 J	ND (4.00)	6.62
Lead	SW6020	µg/L	15	2.83	0.520 NJ, B	ND (1.00)	ND (1.00)	ND (1.00)	0.391 NJ, B	0.12 NJ, J	10.3	0.421 NJ, B
Nickel	SW6020	µg/L	100	1.49 NJ	1.66 NJ	1.19 NJ	1.82 NJ	1.31 NJ	1.16 NJ	1.5 NJ, J	7.36	2.11
Vanadium	SW6020	µg/L	260	ND (20.0)	ND (20.0)	ND (20.0)	28.1	ND (20.0)	ND (20.0)	ND (2.0) J	ND (20.0)	ND (20.0)

Notes:

^a18AAC75, Table C, Groundwater Cleanup Levels (updated October 16, 2005) unless note b.

^bAlaska Department of Environmental Conservation Technical Memorandum 01-007 dated November 24, 2003, calculated Table C Groundwater Cleanup Levels

- | | | |
|--|--|---|
| µg/L = micrograms per liter | GRO = gasoline-range organics | NJ = results between PQL and MDL, value estimated |
| -- = not available | J = value estimated | PQL = practical quantitation limit |
| AK = State of Alaska Method | JL = value estimated with a potential low bias | PWS = Gambell public water system well |
| B = Analyte found in sample less than 5 times the concentration in the method blank; results may be biased high or false positive. | MDL = method detection limit | RRO = residual-range organics |
| BTEX = benzene, toluene, ethylbenzene, and total xylenes | mg/L = milligrams per liter | SIM = selective ion monitoring |
| DRO = diesel-range organics | MW = monitoring well | SW = EPA Solid Waste Method |
| EPA = U.S. Environmental Protection Agency | ND = nondetect | TB = Analyte found in sample 5 times the concentration in the trip blank; results may be biased high or false positive. |

1

Table 5 Trip Blank Results

Sample Type		Trip Blank	Trip Blank	Trip Blank	Trip Blank
Collection Date					8/16/06
Sample Number		05GAM05GSTB4-1	05GAM05GSTB4-2	05GAM05GSTB4-3	05GAM05GSTB5
Laboratory Number		SGS1064875-10	SGS1064875-11	SGS1064875-12	STL 580-3377-2
Units					
GRO	µg/L	ND (100)	111	ND (100)	ND (0.050)
Benzene	µg/L	ND (0.400)	ND (0.400)	ND (0.400)	ND (1.0)
Toluene	µg/L	ND (1.00)	ND (1.00)	ND (1.00)	0.089 NJ, B
Ethylbenzene	µg/L	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.0)
Total Xylenes	µg/L	ND (3.00)	ND (3.00)	ND (3.00)	ND (1.0)

2

Notes:

µg/L = micrograms per liter

B = Analyte found in sample less than 5 times the concentration in the method blank. Results may be high or false positive.

GRO = gasoline-range organics

MDL = method detection limit

ND = nondetect

NJ = results between PQL and MDL, value estimated

PQL = practical quantitation limit

SGS = SGS Environmental Services, Inc.

STL = Severn Trent Laboratories, Inc.

1 Because of low well recovery volumes, only GRO and BTEX samples were collected from
2 MW-31. Neither GRO or BTEX was present at a concentration above the MDL.
3 Chromatograms from previous sampling events showed a pattern consistent with a middle
4 distillate fuel from MW-31.

5 GRO was detected in MW-14, MW-30 and MW-30 duplicate at 0.0114 mg/L, 0.0171 mg/L,
6 and 0.0144 mg/L. The results were between the PQL and MDL; therefore, amounts of GRO
7 cannot be accurately quantified. Also, amounts of GRO were found in the sample at less than
8 five times the concentration in the method blank and amounts of GRO for the samples from
9 MW-30 were found in the sample at less than five times the concentration in the trip blank.
10 Results may be biased high or false positive and have been flagged appropriately.

11 Metals were variously detected in each of the monitoring wells and PWS. The metals barium,
12 chromium, lead, nickel, and vanadium were detected at very low levels from these wells.

13 **4.3.2 Quality Assurance/Quality Control Samples**

14 QA/QC samples were collected during the August 2006 groundwater sampling event.
15 Laboratory-prepared method blanks, laboratory control samples, laboratory sample duplicates,
16 and trip blanks, were also part of the QA/QC program. Analytical results for the trip blanks
17 are provided in Table 5.

18 QA/QC (duplicate/triplicate) samples were collected at a rate of one per 10 samples, or 10
19 percent. QC samples were analyzed by SGS for the same parameters, and in the same
20 extraction batches as the primary samples. QA samples were sent to STL and were analyzed
21 for the same parameters as primary samples. QA/QC samples can be used to evaluate the
22 precision and reproducibility of primary sample results.

23 Trip blanks were submitted with each sample delivery, and were analyzed for GRO/BTEX.
24 No equipment rinsate samples or field blanks were collected. Three trip blanks for four
25 coolers were submitted to SGS. All of the submitted trip blanks were below PQL levels for
26 all analytes, with the exception of GRO in trip blank 05GAM05GSTB-4 which was detected
27 at 111 micrograms per liter. The results for samples associated with trip blank

1 05GAM05GSTB-4 and those shipped without an accompanying trip blank have been
2 qualified.

3 The trip blank submitted to STL contained toluene below the PQL. This compound was also
4 found in the associated method blank.

5 **4.3.3 Data Verification Report**

6 All laboratory results generated as part of the August 2006 groundwater sampling event have
7 undergone data verification and review. The Chemical Data Quality Review Report and the
8 Chemical Data Quality Assurance Report are presented in Appendices C and D, respectively.
9 The ADEC Data Review Checklists are presented in Appendix E. In summary, the data
10 verification found most data usable as delivered by the analytical laboratories. Some data
11 required qualification due to results of field QA/QC, laboratory QA/QC, or failure to adhere
12 to method criteria, and have been flagged appropriately. No data was rejected. Data is
13 presented with appropriate qualifiers in both tables and figures (where applicable) in this
14 Groundwater Sampling Report.

15 No analytes were detected in the groundwater samples at, or above, their respective cleanup
16 levels. GRO was detected in MW-14, MW-30, and MW-30 duplicate; DRO was detected in
17 PWS, MW-30, and MW-30 duplicate; and RRO was detected in PWS, MW-30, and MW-30
18 duplicate. Some metals were detected in all monitoring wells.

19 **4.4 USACE AND STAKEHOLDER REVIEW**

20 This is the revised final report submitted for this project. The final report was submitted on
21 May 25, 2007. This revised final report addresses USACE comments that were not
22 adequately addressed in the final report. USACE and stakeholder comments were addressed
23 and incorporated into this document. Comments made by the USACE and stakeholders on
24 earlier versions of this document are presented in Appendix F.

1

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1 **5.0 REFERENCES**

2 Alaska Administrative Code, Title 18, Section 75.345, Table C, Groundwater Cleanup Levels,
3 2005 (October 16).

4 Bristol Construction Services, LLC (Bristol), 2005a (July). *Sampling and Analysis Plan*
5 (Revision 0). Prepared for USACE to Support the Gambell FUDS Remedial Action,
6 Gambell, Alaska.

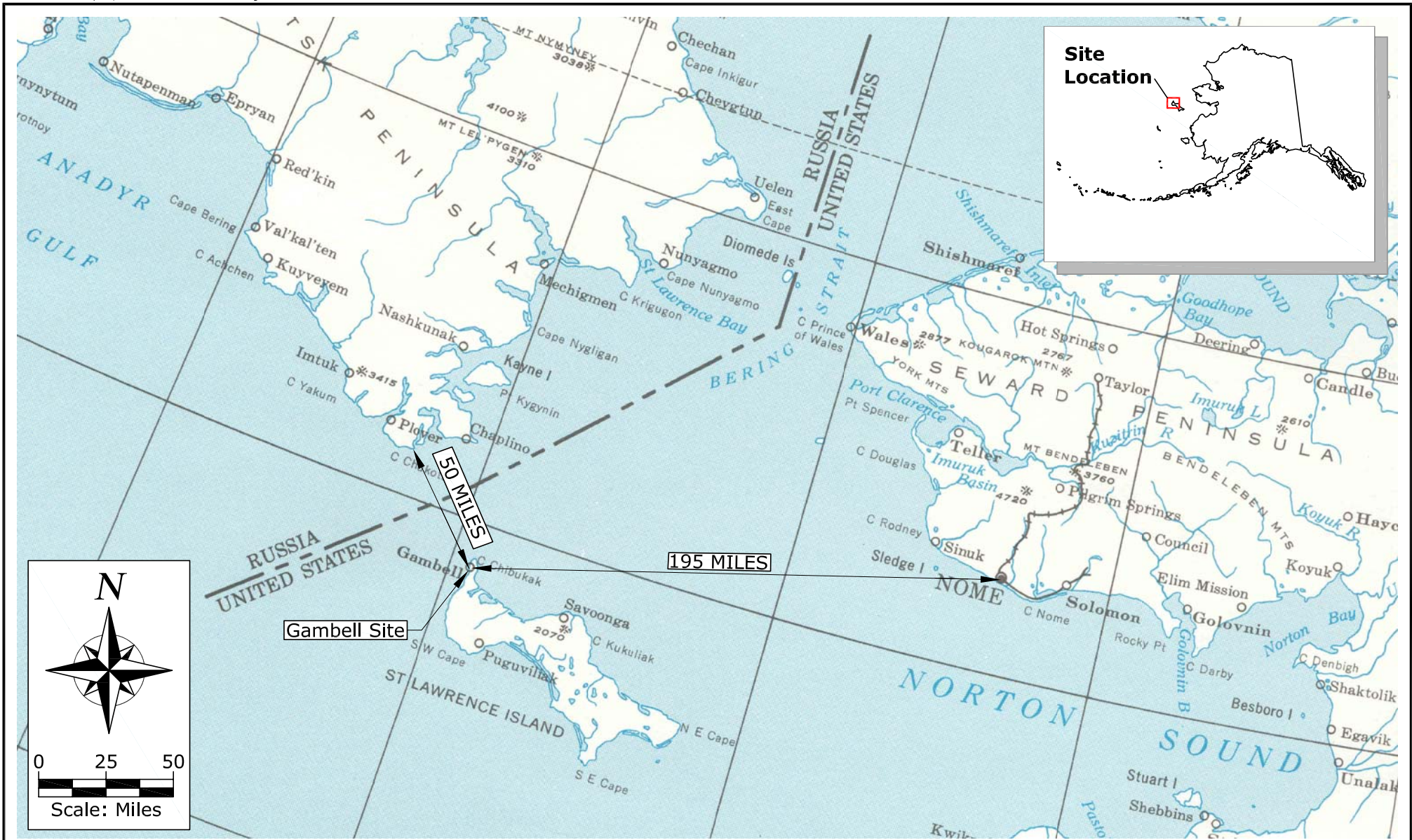
7 Bristol. 2005b. *Work Plan* (Revision 0). Prepared for USACE to Support the Gambell FUDS
8 Remedial Action, Gambell, Alaska.

9 Patton, W.W.&B. Cjeltsey, 1980. Geologic Map of St. Lawrence Island, Alaska. USGS
10 Miscellaneous Investigation Map No. I-1203.

1

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FIGURES



Source: USGS National Atlas Sheet Number 42-43

FIGURE 1
 GAMBELL, ST. LAWRENCE ISLAND, ALASKA
 GAMBELL FUDS REMEDIAL ACTION
 LOCATION MAP



Phone (907) 563-0013 Fax (907) 563-6713
 CONTRACT NO: W911KB-05-P-0103


DATUM:	NA
PROJECTION:	NA
PROJECT NO.	56016

DATE	12/22/06
DWN.	MTG
SCALE	NA
APPRVD.	SJ



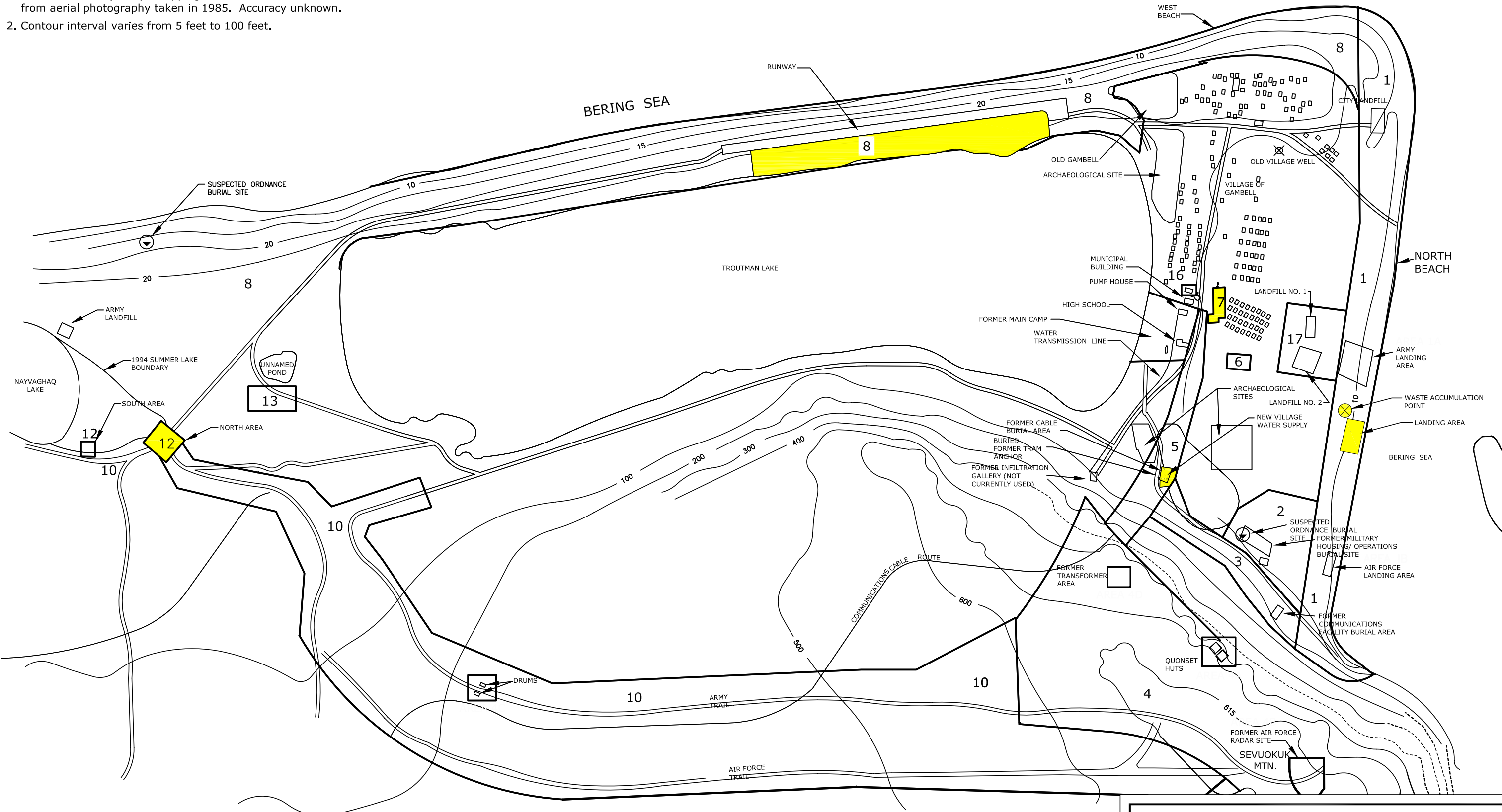
Source: USGS National Atlas Sheet Number 42-43

**FIGURE 2
 GAMBELL, ST. LAWRENCE ISLAND, ALASKA
 GAMBELL FUDS REMEDIAL ACTION
 VICINITY MAP**


 <p>Bristol CONSTRUCTION SERVICES, LLC</p> <p>Phone (907) 563-0013 Fax (907) 563-6713 CONTRACT NO: W911KB-05-P-1013</p>	DATUM: NA	DATE 12/22/06
	PROJECTION: NA	DWN. MTG
	PROJECT NO. 56016	SCALE NA
		APPRVD. SJ

NOTES:

1. Mapping taken from Chemical Data Acquisition Plan by Ecology & Environment (1993). Mapping believed to be sketched from aerial photography taken in 1985. Accuracy unknown.
2. Contour interval varies from 5 feet to 100 feet.



LEGEND

 2006 WORK AREAS

SOURCE: U.S. ARMY ENGINEERING DISTRICT, ALASKA
ST. LAWRENCE ISLAND, AK
FIGURE 1-3, GAMBELL REMEDIAL INVESTIGATION
(SITE 5)-MWH MONTGOMERY WATSON, INC.

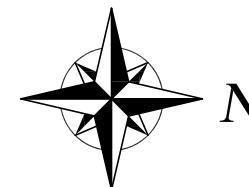
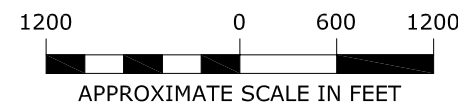
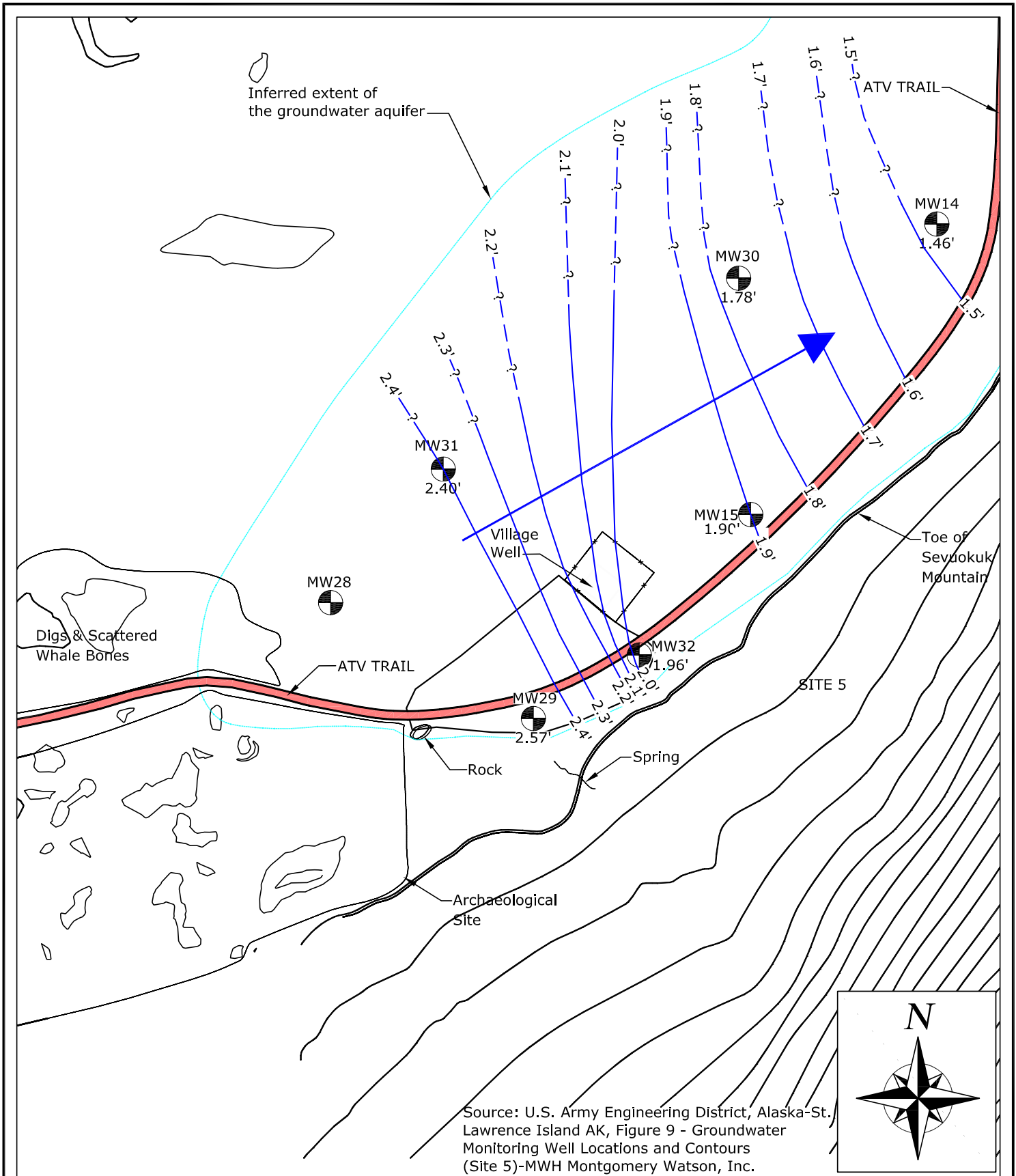


FIGURE 3
GAMBELL, ST. LAWRENCE ISLAND, ALASKA
GAMBELL FUDS REMEDIAL ACTION
REMEDIAL ACTION SITE LOCATIONS

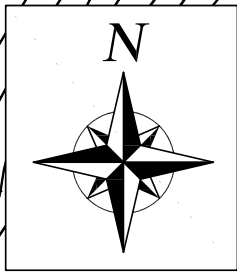

Bristol
CONSTRUCTION SERVICES, LLC
Phone (907) 563-0013 Fax (907) 563-6713
CONTRACT NO: W911KB-05-P-0103

DATUM:	NA	DATE	12/12/06
PROJECTION:	NA	DWN.	MTG
PROJECT NO.	56016	SCALE	SHOWN
		APPRVD.	SAJ

Drawing: K:\JOBS\26043 BCS - GAMBELL FUDS REMEDIAL\ACAD-ENVIRO\WP\DWG\26043_FIG4_REV06.DWG - Layout: FIG4_REVSEPT05_DEC
 User: MGARCIA May 11, 2007 - 9:00am Xrefs: - Images:



Source: U.S. Army Engineering District, Alaska-St. Lawrence Island AK, Figure 9 - Groundwater Monitoring Well Locations and Contours (Site 5)-MWH Montgomery Watson, Inc.



LEGEND




- 
 Monitoring well location with groundwater surface elevation (feet, mean lower low water datum)
- 
 Approximate groundwater surface elevation (feet, mean lower low water datum)
- 
 Approximate groundwater flow direction

FIGURE 4
GAMBELL, ST. LAWRENCE ISLAND, ALASKA
GAMBELL FUDS REMEDIAL ACTION
GROUNDWATER SURFACE ELEVATION CONTOURS
SEPTEMBER 15-17, 2005

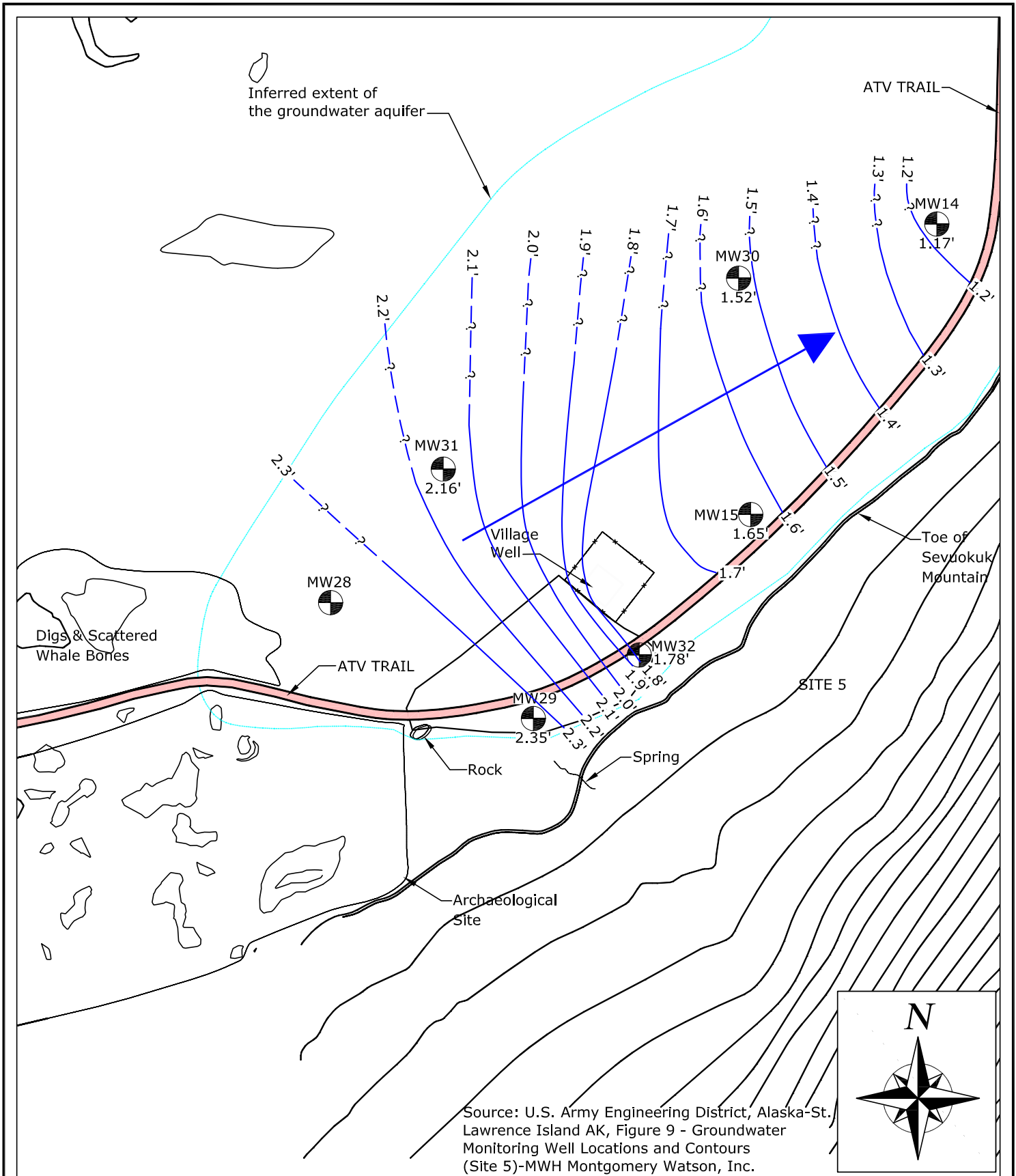


Bristol
 CONSTRUCTION SERVICES, LLC
 Phone (907) 563-0013 Fax (907) 563-6713
 CONTRACT NO: W911KB-05-P-0103

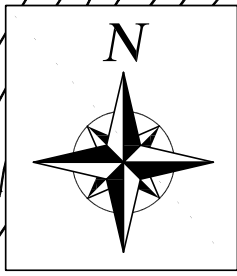
DATUM:	NA
PROJECTION:	NA
PROJECT NO.	56016

DATE	12/22/06
DWN.	MTG
SCALE	NA
APPRVD.	SJ

Drawing: K:\JOBS\26043 BCS - GAMBELL FUDS REMEDIAL\ACAD-ENVIRO\WP\DWG\26043_FIG4_REV06.DWG - Layout: FIG5_REVJULY06_DEC
 User: MGCARCIA May 11, 2007 - 9:03am Xrefs: - Images:



Source: U.S. Army Engineering District, Alaska-St. Lawrence Island AK, Figure 9 - Groundwater Monitoring Well Locations and Contours (Site 5)-MWH Montgomery Watson, Inc.



LEGEND




- 
 Monitoring well location with groundwater surface elevation (feet, mean lower low water datum)
- 
 Approximate groundwater surface elevation (feet, mean lower low water datum)
- 
 Approximate groundwater flow direction

FIGURE 5
GAMBELL, ST. LAWRENCE ISLAND, ALASKA
GAMBELL FUDS REMEDIAL ACTION
GROUNDWATER SURFACE ELEVATION CONTOURS
JULY 11-12, 2006

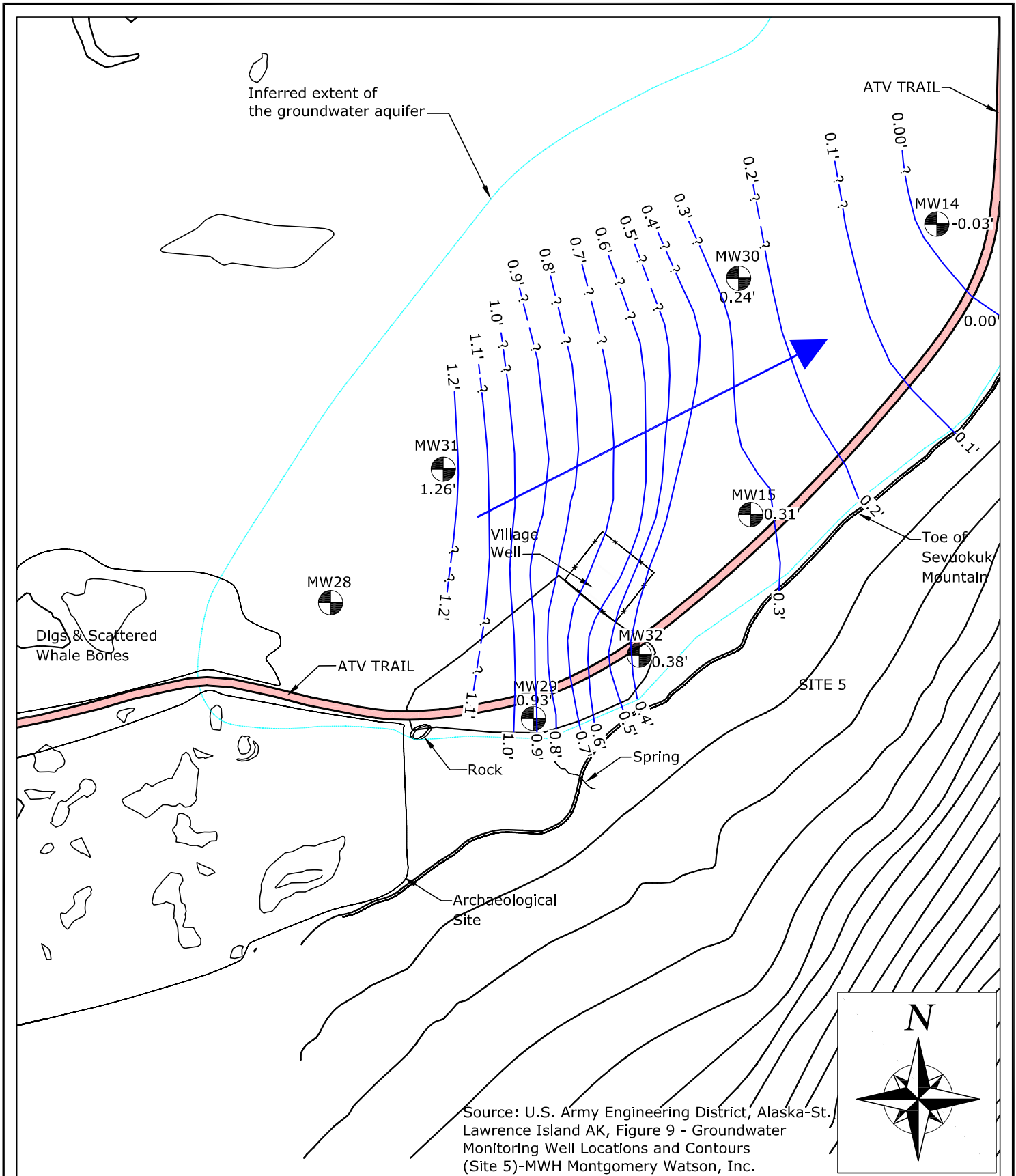


 Phone (907) 563-0013 Fax (907) 563-6713
 CONTRACT NO: W911KB-05-P-0103

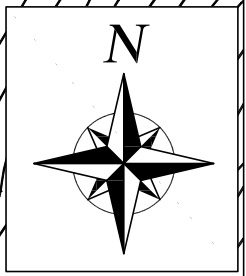
DATUM:	NA
PROJECTION:	NA
PROJECT NO.	56016

DATE	12/22/06
DWN.	MTG
SCALE	NA
APPRVD.	SJ

Drawing: K:\JOBS\26043 BCS - GAMBELL FUDS REMEDIAL\ACAD-ENVIRO\WP\DWG\26043_FIG6_WP.DWG - Layout: FIG6_REVAUG06_DEC
 User: MGCARCIA May 11, 2007 - 9:05am Xrefs: - Images:



Source: U.S. Army Engineering District, Alaska-St. Lawrence Island AK, Figure 9 - Groundwater Monitoring Well Locations and Contours (Site 5)-MWH Montgomery Watson, Inc.



LEGEND

- Monitoring well location with groundwater surface elevation (feet, mean lower low water datum)
- Approximate groundwater surface elevation (feet, mean lower low water datum)
- Approximate groundwater flow direction

FIGURE 6
GAMBELL, ST. LAWRENCE ISLAND, ALASKA
GAMBELL FUDS REMEDIAL ACTION
GROUNDWATER SURFACE ELEVATION CONTOURS
AUGUST 16-17, 2006

 Bristol CONSTRUCTION SERVICES, LLC Phone (907) 563-0013 Fax (907) 563-6713 CONTRACT NO: W911KB-05-P-0103	DATUM:	DATE <u>12/22/06</u>
	NA	DWN. <u>MTG</u>
	PROJECTION:	SCALE <u>NA</u>
	NA	APPRVD. <u>SJ</u>
	PROJECT NO.	
	56016	

APPENDIX A

Groundwater Sample Data Sheets



Bristol

ENVIRONMENTAL & ENGINEERING SERVICES CORPORATION

GROUNDWATER SAMPLING FORM

Well No.: PWS Coordinates: N W

Well Type: Monitor Extraction Other

Job Name Gambell FUDS Well Material PVC St. Steel Other

Job Number 56016 Date 8/17/06 Time: 1335

Recorded by *Larry W. Pederson* (Signature) Sampled by Larry Pederson

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
 2-inch 4-inch 6-inch Other _____

Total Depth of Casing (TD in feet BTOC): _____

PURGE METHOD

Bailer - Type: _____

Submersible Centrifugal Bladder Pump No. _____

Other - Type: _____

Water Level Depth (WL in feet BTOC): _____

PUMP INTAKE SETTING

Number of Well Volumes to be purged (# Vols)
 3 4 5 10 Other _____

Near Bottom Near Top Other

Depth in feet (BTOC): _____ Screen Interval in Feet (BTOC) _____

PURGE VOLUME CALCULATION:

from _____ to _____

$$\begin{array}{ccccccc}
 \underline{\hspace{2cm}} & - & \underline{\hspace{2cm}} & \times & \underline{\hspace{2cm}}^2 & \times & \underline{\hspace{2cm}} & \times & 0.0408 & = & \underline{\hspace{2cm}} & \text{gallons} \\
 \text{TD (feet)} & & \text{WL (feet)} & & \text{D (inches)} & & \text{\# Vols} & & & & \text{Calculated} & \\
 & & & & & & & & & & \text{Purge Volume} &
 \end{array}$$

PURGE TIME 1310 Start 1340 Stop

ACTUAL PURGE VOLUME _____ gallons

FIELD PARAMETER MEASUREMENT

Time	T <input checked="" type="checkbox"/> °C <input type="checkbox"/> °F	Spec Cond. (µhos/cm °)	Cond. (mhos/cm)	Salinity (ppt)	DO (mg/L)	pH	ORP	Turbidity (NTU)	Other
1310	2.18	107	0.191	0.09	12.20	6.58	134.6	7.47	
	2.13	108	0.191	0.09	10.80	6.30	128.2	2.22	
	1.81	106	0.190	0.09	10.82	6.12	135.4	2.00	
	1.74	105	0.189	0.09	10.89	5.95	145.0	0.47	
	1.75	105	0.189	0.09	10.02	5.71	149.3	0.35	
	1.74	105	0.189	0.09	10.42	5.86	139.3	0.24	
	1.74	105	0.188	0.09	10.56	5.81	142.4	0.34	

Observations During Purging (Well Condition, Turbidity, Color, Odor): _____

Discharge Water Disposal: Sanitary Sewer Storm Sewer Other _____



Bristol

ENVIRONMENTAL & ENGINEERING SERVICES CORPORATION

GROUNDWATER SAMPLING FORM

Well No.: MW-14 Coordinates: N W

Well Type: Monitor Extraction Other _____

Job Name Gambell FUDS Well Material PVC St. Steel Other _____

Job Number 56016 Date 8/16/06 Time: 1445

Recorded by [Signature] Sampled by Larry Pederson

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):

2-inch 4-inch 6-inch Other

Total Depth of Casing (TD in feet BTOC): 10.86 ft.

Water Level Depth (WL in feet BTOC): 10.34 ft.

Number of Well Volumes to be purged (# Vols)

3 4 5 10 Other _____

PURGE METHOD

Bailer - Type: _____

Submersible Centrifugal Bladder Pump No. _____

Other - Type: Peristaltic Gas Pump

PUMP INTAKE SETTING

Near Bottom Near Top Other

Depth in feet (BTOC): _____ Screen Interval in Feet (BTOC) _____

PURGE VOLUME CALCULATION:

from _____ to _____

$$\begin{array}{ccccccc}
 \underline{10.86} & - & \underline{10.35} & \times & \underline{2}^2 & \times & \underline{3} & \times & 0.0408 & = & \underline{0.250} & \text{gallons} \\
 \text{TD (feet)} & & \text{WL (feet)} & & \text{D (inches)} & & \text{\# Vols} & & & & \text{Calculated} & \\
 & & & & & & & & & & \text{Purge Volume} &
 \end{array}$$

PURGE TIME

1410

Start

1505

Stop

ACTUAL PURGE VOLUME

_____ gallons

FIELD PARAMETER MEASUREMENT

	T, <input checked="" type="checkbox"/> °C <input type="checkbox"/> °F	Spec Cond. (µhos/cm °)	Cond. (mhos/cm)	Salinity (ppt)	DO (mg/L)	pH	ORP	Turbidity (NTU)	Other
<u>1410</u>	<u>3.17</u>	<u>107</u>	<u>0.184</u>	<u>0.09</u>	<u>14.88</u>	<u>7.40</u>	<u>208.9</u>	<u>6.11</u>	
<u>1415</u>	<u>3.06</u>	<u>106</u>	<u>0.183</u>	<u>0.09</u>	<u>11.18</u>	<u>6.90</u>	<u>223.5</u>	<u>3.12</u>	
<u>1420</u>	<u>2.99</u>	<u>104</u>	<u>0.180</u>	<u>0.08</u>	<u>10.64</u>	<u>6.29</u>	<u>239.1</u>	<u>1.30</u>	
<u>1425</u>	<u>2.91</u>	<u>104</u>	<u>0.180</u>	<u>0.08</u>	<u>10.53</u>	<u>6.04</u>	<u>245.1</u>	<u>0.60</u>	
<u>1430</u>	<u>2.72</u>	<u>104</u>	<u>0.180</u>	<u>0.08</u>	<u>10.78</u>	<u>5.84</u>	<u>248.8</u>	<u>0.69</u>	
<u>1435</u>	<u>2.69</u>	<u>103</u>	<u>0.180</u>	<u>0.08</u>	<u>10.75</u>	<u>5.76</u>	<u>251.6</u>	<u>0.75</u>	
<u>1440</u>	<u>2.67</u>	<u>103</u>	<u>0.180</u>	<u>0.08</u>	<u>10.83</u>	<u>5.67</u>	<u>253.8</u>	<u>0.36</u>	

Observations During Purging (Well Condition, Turbidity, Color, Odor): _____

Discharge Water Disposal: Sanitary Sewer Storm Sewer Other _____

≈ 1-2 gal. / 10-min.

Bristol

ENVIRONMENTAL & ENGINEERING
SERVICES CORPORATION

GROUNDWATER SAMPLING FORM

Well No.: MW-15 Coordinates: N W
 Well Type: Monitor Extraction Other
 Job Name Gambell FUDS Well Material PVC St. Steel Other
 Job Number 56016 Date 8/16/06 Time: 1555
 Recorded by Larry P. Pederson (Signature) Sampled by Larry Pederson

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):

2-inch 4-inch 6-inch Other

Total Depth of Casing (TD in feet BTOC): 12.48 ft.

Water Level Depth (WL in feet BTOC): 9.80 ft.

Number of Well Volumes to be purged (# Vols)

3 4 5 10 Other

PURGE METHOD

Bailer - Type:

Submersible Centrifugal Bladder Pump No.

Other - Type: Parastatic-Geopump

PUMP INTAKE SETTING

Near Bottom Near Top Other middle to bottom

Depth in feet (BTOC): Screen Interval in Feet (BTOC)

PURGE VOLUME CALCULATION:

from _____ to _____

12.48 - 9.80 x 2² x 3 x 0.0408 = 1.312 gallons
 TD (feet) WL (feet) D (inches) # Vols Calculated Purge Volume

PURGE TIME

1525 Start

1605 Stop

ACTUAL PURGE VOLUME

_____ gallons

FIELD PARAMETER MEASUREMENT

	<input checked="" type="checkbox"/> °C <input type="checkbox"/> °F	Spec Cond. (µhos/cm °)	Cond. (mhos/cm)	Salinity (ppt)	DO (mg/L)	pH	ORP	Turbidity (NTU)	Other
<u>1525</u>	<u>4.65</u>	<u>104</u>	<u>0.171</u>	<u>0.08</u>	<u>10.85</u> 10.85	<u>6.03</u>	<u>236.8</u>	<u>7.92</u>	
<u>1530</u>	<u>4.26</u>	<u>101</u>	<u>0.167</u>	<u>0.08</u>	<u>8.53</u>	<u>5.44</u>	<u>267.5</u>	<u>3.93</u>	
<u>1535</u>	<u>4.04</u>	<u>99</u>	<u>0.165</u>	<u>0.08</u>	<u>8.53</u>	<u>5.15</u>	<u>285.7</u>	<u>2.17</u>	
<u>1540</u>	<u>4.03</u>	<u>99</u>	<u>0.165</u>	<u>0.08</u>	<u>8.51</u>	<u>5.03</u>	<u>293.7</u>	<u>1.60</u>	
<u>1545</u>	<u>4.03</u>	<u>99</u>	<u>0.165</u>	<u>0.08</u>	<u>8.47</u>	<u>4.99</u>	<u>297.3</u>	<u>1.37</u>	
<u>1550</u>	<u>4.02</u>	<u>99</u>	<u>0.165</u>	<u>0.08</u>	<u>8.46</u>	<u>4.98</u>	<u>298.2</u>	<u>0.95</u>	

Observations During Purging (Well Condition, Turbidity, Color, Odor): _____

Discharge Water Disposal: Sanitary Sewer Storm Sewer Other _____

1 - 1.25 gals/10 min.

Bristol

ENVIRONMENTAL & ENGINEERING
SERVICES CORPORATION

GROUNDWATER SAMPLING FORM

Well No.: MW-29 Coordinates: N W
 Well Type: Monitor Extraction Other _____
 Job Name Gambell FUDS Well Material PVC St. Steel Other _____
 Job Number 56016 Date 8/16/06 Time: 1830
 Recorded by [Signature] (Signature) Sampled by _____

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
 2-inch 4-inch 6-inch Other _____
 Total Depth of Casing (TD in feet BTOC): 15.00
 Water Level Depth (WL in feet BTOC): 11.46

PURGE METHOD

Bailer - Type: _____
 Submersible Centrifugal Bladder Pump No. _____
 Other - Type: Parasaltic-GeoPump

Number of Well Volumes to be purged (# Vols)

3 4 5 10 Other _____

PUMP INTAKE SETTING

Near Bottom Near Top Other _____
 Depth in feet (BTOC): _____ Screen Interval in Feet (BTOC) _____

PURGE VOLUME CALCULATION:

from _____ to _____

$$\frac{15.00}{\text{TD (feet)}} - \frac{11.46}{\text{WL (feet)}} \times \frac{4}{\text{D (inches)}}^2 \times \frac{3}{\text{\# Vols}} \times 0.0408 = \frac{6.933}{\text{Calculated Purge Volume}} \text{ gallons}$$

PURGE TIME

1750 Start 1835 Stop

ACTUAL PURGE VOLUME

_____ gallons

FIELD PARAMETER MEASUREMENT

	<input checked="" type="checkbox"/> °C <input type="checkbox"/> °F	Spec Cond. (μhos/cm ²)	Cond. (mhos/cm)	Salinity (ppt)	DO (mg/L)	pH	ORP	Turbidity (NTU)	Other
1750	5.31	166	0.266	0.13	9.37	5.46	261.4	10.8	
1755	5.14	166	0.267	0.13	7.55	4.98	282.8	1.38	
1800	5.24	166	0.267	0.13	7.60	4.94	287.9	0.64	
1805	5.29	166	0.266	0.13	7.71	4.96	290.1	0.24	
1810	5.30	166	0.266	0.13	7.80	4.98	292.0	0.17	
1815	5.32	166	0.267	0.13	7.89	4.99	293.6	0.18	
1820	5.33	166	0.267	0.13	7.87	5.00	294.6	0.13	

Observations During Purging (Well Condition, Turbidity, Color, Odor): _____

Discharge Water Disposal: Sanitary Sewer Storm Sewer Other _____

more on
back
←

2.5 gal/10 min

Time	Temp.	Sp. Con	Con.	Sal.	DO	pH	ORP	Turb.
1025	5.33	166	0.267	0.13	7.91	5.00	296.6	0.13

Bristol

ENVIRONMENTAL & ENGINEERING
SERVICES CORPORATION

GROUNDWATER SAMPLING FORM

Well No.: MW-30 Coordinates: N W
 Well Type: Monitor Extraction Other _____
 Job Name Gambell FUDS Well Material PVC St. Steel Other _____
 Job Number 56016 Date 8/16/06 Time: 1150
 Recorded by *Harry W. Pelu* (Signature) Sampled by _____

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
 2-inch 4-inch 6-inch Other _____
 Total Depth of Casing (TD in feet BTOC): 11.30 ft.
 Water Level Depth (WL in feet BTOC): 9.84 ft.

PURGE METHOD

Bailer - Type: _____
 Submersible Centrifugal Bladder Pump No. _____
 Other - Type: Parastatic Geopump

PUMP INTAKE SETTING

Number of Well Volumes to be purged (# Vols):
 3 4 5 10 Other _____
 Near Bottom Near Top Other
 Depth in feet (BTOC): _____ Screen Interval in Feet (BTOC) _____

PURGE VOLUME CALCULATION:

$$\frac{11.30}{\text{TD (feet)}} - \frac{9.84}{\text{WL (feet)}} \times \frac{4^2}{\text{D (inches)}^2} \times \frac{3}{\text{\# Vols}} \times 0.0408 = \frac{2.859}{\text{Calculated Purge Volume}} \text{ gallons}$$

PURGE TIME

1110 Start 1235 Stop

ACTUAL PURGE VOLUME

2.859 gallons

FIELD PARAMETER MEASUREMENT

	T °C <input checked="" type="checkbox"/> °C <input type="checkbox"/> °F	Spec Cond. (µhos/cm °)	Cond. (mhos/cm)	Salinity (ppt)	DO (mg/L)	pH	ORP	Turbidity (NTU)	Other
1110	1.59	320	0.574	0.27	11.91	6.56	219.6	4.50	
1115	0.89	222	0.410	0.19	12.00	6.60	213.9	1.26	
1120	0.98	187	0.345	0.16	12.10	6.65	208.7	0.82	
1125	0.82	179	0.333	0.16	12.48	6.77	201.3	0.74	
1130	0.80	176	0.326	0.15	12.53	6.94	190.4	0.70	
1135	0.81	176	0.327	0.15	12.67	7.02	184.8	0.71	
1140	0.82	176	0.326	0.15	12.64	7.05	183.5	0.72	

Observations During Purging (Well Condition, Turbidity, Color, Odor):

Clear, no odors

Discharge Water Disposal: Sanitary Sewer Storm Sewer Other

ground

1.5 gal./10 min purge rate
 Duplicates are 19 + 20 } 8/16/06
 @ @
 1220 1220

Temp = 0.5 °C Salinity = 3‰ Turb = 10%
 Sp. Cond = 3‰ DO = 10%
 Cond. = 3‰ pH = 0.2 ORP = 10
 or
 below
 10

GROUNDWATER SAMPLING FORM (continued)

WELL SAMPLING

SAMPLING METHOD

Casing Diameter (D in inches): _____

Bailer – Type: _____
 Same As Above

Submersible
 Centrifugal
 Bladder
 Pump No. _____
 Grab – Type _____
 Other – Type: _____

SAMPLING DISTRIBUTION Sample Series: _____

Sample No. & Time Collected	Analysis Requested	Preservatives	Volume/Cont	Comments

QUALITY CONTROL SAMPLES

Duplicate Samples

Original Sample No.	Duplicate Sample No.
20 20	18 18, 19

Blank Samples

Type	Sample No.
Trip	

Other Samples

Type	Sample No.



Bristol

ENVIRONMENTAL & ENGINEERING SERVICES CORPORATION

GROUNDWATER SAMPLING FORM

Well No.: MW-31 Coordinates: N W

Well Type: Monitor Extraction Other _____

Job Name Gambell FUDS Well Material PVC St. Steel Other _____

Job Number 56016 Date 8/16/06 Time: 11:15

Recorded by [Signature] (Signature) Sampled by _____

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
 2-inch 4-inch 6-inch Other _____

Total Depth of Casing (TD in feet BTOC): 12.76

Water Level Depth (WL in feet BTOC): 12.34 ft.

PURGE METHOD

Bailer - Type: _____

Submersible Centrifugal Bladder Pump No. _____

Other - Type: Parastaltic Geo Pump

Number of Well Volumes to be purged (# Vols)
 3 4 5 10 Other _____

PUMP INTAKE SETTING

Near Bottom Near Top Other _____

Depth in feet (BTOC): _____ Screen Interval in Feet (BTOC) _____

PURGE VOLUME CALCULATION:

$$\begin{array}{ccccccc}
 12.76 & - & 12.34 & \times & 4^2 & \times & 3 & \times & 0.0408 & = & 0.823 & \text{gallons} \\
 \text{TD (feet)} & & \text{WL (feet)} & & \text{D (inches)} & & \text{\# Vols} & & & & \text{Calculated} & \\
 & & & & & & & & & & \text{Purge Volume} &
 \end{array}$$

PURGE TIME 1030 Start 1033 Stop

ACTUAL PURGE VOLUME _____ gallons

pumped dry.

FIELD PARAMETER MEASUREMENT

	T <input checked="" type="checkbox"/> °C <input type="checkbox"/> °F	Spec Cond. (µhos/cm °)	Cond. (mhos/cm)	Salinity (ppt)	DO (mg/L)	pH	ORP	Turbidity (NTU)	Other
1040	3.07	367	0.630	0.30	13.12	6.38	225.2	176	

Observations During Purging (Well Condition, Turbidity, Color, Odor): _____

Discharge Water Disposal: Sanitary Sewer Storm Sewer Other _____

*Volume after purge ≈ 1.5 to 2 pints
 let sit to reinfiltate while move to next well.
 Used lowest pump setting possible.
 barely filled thru.
 Will get what we can.
 @ 1850 the water level recovered 12.15" (12.76 - 12.15 = 0.61)*

yield a third of flow through cell @ 1855.
pumped well dry on slowest setting.

will collect 40 ml. VOA's and Metals.

Collect samples @ 18900

Barely got 6 40-ml. VOA's + 250 ml Plastic jars full.

No screening not enough water in Flow through cell during
the second time around. (1855)

Bristol

ENVIRONMENTAL & ENGINEERING
SERVICES CORPORATION

GROUNDWATER SAMPLING FORM

Well No.: MW-32 Coordinates: N W
 Well Type: Monitor Extraction Other
 Job Name Gambell FUDS Well Material PVC St. Steel Other
 Job Number 56016 Date 8/16/06 Time: 1700
 Recorded by Larry W. Pelt (Signature) Sampled by Larry Pederson

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches):
 2-inch 4-inch 6-inch Other
 Total Depth of Casing (TD in feet BTOC): 15.02 ft.

Water Level Depth (WL in feet BTOC): 12.90 ft.

Number of Well Volumes to be purged (# Vols)
 3 4 5 10 Other

PURGE METHOD

Bailer - Type:
 Submersible Centrifugal Bladder Pump No.
 Other - Type: Peristaltic - Gas Pump

PUMP INTAKE SETTING

14 ft.
 Near Bottom Near Top Other
 Depth in feet (BTOC): Screen Interval in Feet (BTOC)

PURGE VOLUME CALCULATION:

from _____ to _____

15.02 - 12.90 x 4² x 3 x 0.0408 = _____ gallons

TD (feet) WL (feet) D (inches) # Vols Calculated Purge Volume

PURGE TIME 1630 Start 1705 Stop ACTUAL PURGE VOLUME 4.152 gallons

FIELD PARAMETER MEASUREMENT

	T. <input checked="" type="checkbox"/> °C <input type="checkbox"/> °F	Spec Cond. (µhos/cm °)	Cond. (mhos/cm)	Salinity (ppt)	DO (mg/L)	pH	ORP	Turbidity (NTU)	Other
<u>1630</u>	<u>2.93</u>	<u>138</u>	<u>0.239</u>	<u>0.11</u>	<u>14.95</u>	<u>5.55</u>	<u>271</u>	<u>0.57</u>	
<u>1635</u>	<u>2.54</u>	<u>138</u>	<u>0.241</u>	<u>0.11</u>	<u>10.30</u>	<u>5.12</u>	<u>285.6</u>	<u>0.93</u>	
<u>1640</u>	<u>2.49</u>	<u>138</u>	<u>0.242</u>	<u>0.11</u>	<u>9.75</u>	<u>4.82</u>	<u>293.4</u>	<u>0.81</u>	
<u>1645</u>	<u>2.49</u>	<u>139</u>	<u>0.243</u>	<u>0.11</u>	<u>9.848</u>	<u>4.79</u>	<u>289.4</u>	<u>0.36</u>	
<u>1650</u>	<u>2.48</u>	<u>139</u>	<u>0.244</u>	<u>0.12</u>	<u>9.38</u>	<u>4.81</u>	<u>287.0</u>	<u>0.55</u>	
<u>1655</u>	<u>2.46</u>	<u>140</u>	<u>0.245</u>	<u>0.12</u>	<u>9.30</u>	<u>4.82</u>	<u>283.7</u>	<u>0.33</u>	
<u>1700</u>									

Observations During Purging (Well Condition, Turbidity, Color, Odor):

Discharge Water Disposal: Sanitary Sewer Storm Sewer Other ground

2.5 gal/15 min.

APPENDIX B

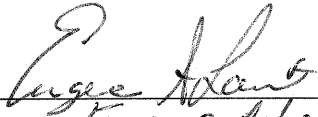
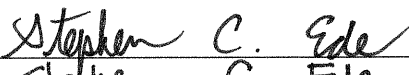
**Laboratory Data Package
(Provided on CD)**

SGS Environmental Services Inc.
Alaska Division
Laboratory Data Report

Project: 56016 Gambell FUDS Rem Action
Client: Bristol Environmental
SGS Work Order: 1064875
NPDL Work Order: 05-013

Except as noted on the case narrative, all quality assurance/quality control criteria is in compliance with the standards set forth by the Alaska Department of Environmental Conservation (ADEC), the SGS Quality Assurance Program Plan, and the National Environmental Laboratory Accreditation Conference.

Please contact, your Project Manager and/or the Quality Assurance Manager should any questions occur.

Prepared by	(Signature)	
	(Printed Name)	<u>Eugene A. Laramie</u>
	(Date)	<u>9/27/06</u>
Released by	(Signature)	
	(Printed Name)	<u>Stephen C. Ede</u>
	(Title)	<u>Technical Director</u>
	(Date)	<u>9/30/06</u>

This report contains a total number of 926 pages.

Table of Contents

SGS Work Order: 1064875
Client: Bristol Environmental & Engineering S
Project: 56016 Gambell FUDS Rem Ac
NPD L Work Order:: 05-013

Introduction:

Your data package is arranged in a series of sections generally arranged as follows:

- * Section 1 contains supporting documentation for the work order.*
- * Section 2 contains the analytical report.*
- * Sections 3 and above are broken into subsections.*
 - * Subsection X.1 contains the COELT report forms for the samples and other batch support documentation as listed in that subsection. Subsection X.1 is arranged in numerical order by Extraction Batch and subdivided by Analytical Batch.*
 - * Subsections X.2 and X.3 will contain calibration and raw analytical data as specified and when required.*
 - * Reports from subcontract labs will be included in their entirety in additional sections attached to our report.*
 - * The EDCC report will be appended to the end of the document.*

NOTE: Some calibration data may apply to more than one analytical run and will be provided only once for each set of analytical batches to which it applies.

** The Result, Det Limit and Rep Limit fields could contain four asterisks (****). This indicates a value which is larger than that which can be displayed on the form. Please see the laboratory report or EDD for those values.*

Section : 1

Table of Contents
Case Narrative
Chain of Custody
Sample Receipt Form
Change Orders/Communications
COELT Summary Report
Glossary of Qualifiers

Section : 2

Analytical Report

SGS Environmental Services Inc.

Case Narrative

Customer: BRISENV

Bristol Environmental

Project: 1064875

56016 Gambell FUDS Rem Action

NPDL WO: 05-013

Refer to the sample receipt form for information on sample condition.

1064875001 PS

06GAM05GS17

6020 - MB result for barium is greater than one-half the PQL yet less than the PQL. The reported result may be biased high.

1064875002 PS

06GAM05GS18

6020 - MB result for barium is greater than one-half the PQL yet less than the PQL. The reported result may be biased high.

1064875003 PS

06GAM05GS19

DRO - The pattern is consistent with a weathered middle distillate.

1064875004 PS

06GAM05GS21

DRO - The pattern is consistent with a weathered middle distillate.

1064875005 PS

06GAM05GS22

6020 - MB result for barium is greater than one-half the PQL yet less than the PQL. The reported result may be biased high.

1064875006 PS

06GAM05GS23

6020 - MB result for barium is greater than one-half the PQL yet less than the PQL. The reported result may be biased high.

1064875007 PS

06GAM05GS24

6020 - MB result for barium is greater than one-half the PQL yet less than the PQL. The reported result may be biased high.

1064875010 TB

06GAM05GSTB4-1

Revised Report - The sample ID has been changed per the request of Michelle Turner 09/28/06.

1064875011 TB

06GAM05GSTB4-2

Revised Report - The sample ID has been changed per the request of Michelle Turner 09/28/06.

1064875012 TB

06GAM05GSTB4-3

Revised Report - The sample ID has been changed per the request of Michelle Turner 09/28/06.

722009 MB

MB for HBN 176267 [XXX/17166]

PAHSIM - MB result for 2-methylnaphthalene is greater than one-half the PQL yet less than the PQL. This analyte was not detected in the associated samples.

722051 MB

MB for HBN 176276 [MXX/18020]

6020 - MB result for barium is greater than one-half the PQL yet less than the PQL. Data is accepted as the reported result in the associated samples is greater than 10x the MB contamination or is not detected above the PQL except where noted.

724003 CCV

CCV for HBN 176691 [XMS/3757]

PAHSIM - CCV recovery for benzo(k)fluoranthene is outside QC goals (biased high). This analyte was not detected in the associated samples.

724122 CCV

CCV for HBN 176723 [VFC/8005]

GRO - CCV surrogate recovery is biased low. Data is accepted based upon compliant surrogate recovery in the associated samples.

CHAIN OF CUSTODY RECORD

SGS LABORATORY

200 W. Potter Drive, Anchorage, AK 99518 • 907-562-2343 • Fax 907-561-5301

Quote No.: 7320A

Contact: Michelle Turner

Project: 56016 Gambell FUDS Remedial Action

Phone No: 907-563-0013

Reports To:

Michelle Turner

BEESC

111 W. 16th Ave, Suite 301

Anchorage, AK 99501

COC# GAM-04

PAGE 1 OF 1

1064875



LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No. JARS	GRO (AK101)	BTEX (8260)	DR/RO (AK102/103)	PAH (8270 SIMS)	As, Ba, Cd, Cr, Pb, Ni, Vd (6020)	LOCID	Remarks	PAGE 1 OF 1			
													Collected/Relinquished By: (1)	Date	Time	Received By:
① A-K	06GAM05GS17	8/17/06	1335	GW	11	X	X	X	X	X	PWS		Temperature: 1 = 2.6 2 = 1.8 3 = 0.5 4 = 1.9			
② A-G	06GAM05GS18	8/16/06	1900	GW	11	X	X	X	X	X	MW-31	Run GRO/BTEX + Metals Only	2 = 1.7 3 = 1.7 4 = 2.6			
③ A-K	06GAM05GS19	8/16/06	1230	GW	11	X	X	X	X	X	MW-30		Chain of Custody Seal (Circle) X-2 each ATTACHED BROKEN ABSENT			
④	06GAM05GS21	8/16/06	1150	GW	11	X	X	X	X	X	MW-30					
⑤	06GAM05GS22	8/16/06	1445	GW	11	X	X	X	X	X	MW-14					
⑥	06GAM05GS23	8/16/06	1550	GW	11	X	X	X	X	X	MW-15					
⑦	06GAM05GS24	8/16/06	1700	GW	11	X	X	X	X	X	MW-32					
⑧	06GAM05GS25	8/16/06	1830	GW	11	X	X	X	X	X	MW-29					
⑨ A	06GAM05GSTB4	8/17/06	X	TB	4	X	X	X	X	X	Trip blank					
	06GAM12SL03Re	8/15/06	2100	SL	1					X	Lead Only, Rapid TAT					
End of COC																
Collected/Relinquished By: (1)		Date	Time	Received By:									Shipping Carrier: hand			
Collected/Relinquished By: (2)		Date	Time	Received By:									Shipping Ticket No.			
Collected/Relinquished By: (3)		Date	Time	Received By:									Data Deliverables:			
Collected/Relinquished By: (4)		Date	Time	Received For Laboratory By:									USACE data deliverables requested; SEDD and COELT EDDs requested			
Requested Turnaround Time and Special Instructions:																
USACE Job # 05-013. Rapid TAT for 06GAM12SL03Re																
NOA Michelle Turner - BEESC 06GAM05GS18 did not yield enough water for collect DR/RO + PAH's. Run GRO/BTEX + Metals Only.																
Cooler receipt & temp																



SGS

SAMPLE RECEIPT FORM

SGS WO#:

- Yes No NA Are samples RUSH, priority, or w/n 72 hrs. of hold time? *see notes*
- If yes have you done e-mail notification?
- Are samples within 24 hrs. of hold time or due date?
- If yes, have you spoken with Supervisor?
- Archiving bottles - if req., are they properly marked?
- Are there any problems? PM Notified? yes
- Were samples preserved correctly and pH verified?

Due Date: 8/23/06 and 9/4/06

Received Date: 8/21/06

Received Time: 1245

Is date/time conversion necessary? no

of hours to AK Local Time:

Thermometer ID: 7D

Cooler ID	Temp Blank	Cooler Temp
1	1.3 °C	2.6 °C
2	1.8 °C	1.7 °C
3	-0.5 °C	1.7 °C
4	1.9 °C	2.6 °C
	°C	°C

*Temperature readings include thermometer correction factors

Delivery method (circle all that apply): Client /

Alert Courier / UPS / FedEx / USPS /

AA Goldstreak / NAC / ERA / PenAir / Carlile

Lynden / SGS / Other:

Airbill #

Additional Sample Remarks: (✓ if applicable)

 Extra Sample Volume?

✓ Limited Sample Volume?

 Field preserved for volatiles?

 Field-filtered for dissolved?

 Lab-filtered for dissolved?

 Ref Lab required?

 Foreign Soil?

This section must be filled if problems are found.

Yes No Was client notified of problems?

Individual contacted:

Via: Phone / Fax / Email (circle one)

Date/Time:

Reason for contact:

Change Order Required?

SGS Contact:

- If this is for PWS, provide PWSID.
- Will courier charges apply?
- Method of payment?
- Data package required? (Level: 1 / 2 / 3 / 4)
- Notes:
- Is this a DoD project? (USACE, Navy, AFCEE)

This section must be filled out for DoD projects (USACE, Navy, AFCEE)

Yes No Is received temperature 4 ± 2°C?

Exceptions: Samples/Analyses Affected:

 Rad Screen performed? Result:

 Was there an airbill? (Note # above in the right hand column)

✓ Was cooler sealed with custody seals?

 # / where: 2 each / one front, one back

✓ Were seal(s) intact upon arrival?

✓ Was there a COC with cooler?

✓ Was COC sealed in plastic bag & taped inside lid of cooler?

✓ Was the COC filled out properly?

✓ Did the COC indicate COE AFCEE / Navy project?

✓ Did the COC and samples correspond?

✓ Were all sample packed to prevent breakage?

 Packing material: bubblewrap, ziploc, foam holders

✓ Were all samples unbroken and clearly labeled?

✓ Were all samples sealed in separate plastic bags? VOAs mixed in

✓ Were all VOCs free of headspace and/or MeOH preserved? foam holders

✓ Were correct container / sample sizes submitted?

✓ Is sample condition good?

✓ Was copy of CoC, SRF, and custody seals given to PM to fax?

Notes: -NO trip blank received for cooler 3: samples (3) and (4) A-F

-limited vol. for trip blanks, only 3 vials provided for GRO/8260

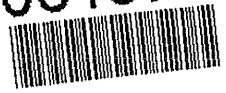
-(9)A is due 8/23/06, everything else is due 9/4/06

Completed by (sign): [Signature] (print): Erin Lee

Login proof (check one): waived required performed by:

Cooler/Sample Temperature Compliance Tracking Sheet

1064875



SGS

Total # of Coolers: 4 SGS WO#: 1064875

Cooler: # 1 TB: 1.3 C: 2.6
②A-G, ⑦A-K, ⑩A-C

Cooler: # 2 TB: 1.8 C: 1.7
⑤A-K, ⑥A-K, ⑪A-C, ⑨A

Cooler: # 3 TB: -0.5 C: 1.7
③A-K, ④A-K

Cooler: # 4 TB: 1.9 C: 2.6
①A-K, ⑧A-K, ⑫A-C

Cooler: # _____ TB: _____ C: _____

Cooler: # _____ TB: _____ C: _____

Cooler: # _____ TB: _____ C: _____

Note:

Completed By: *[Signature]* Date: 8/21/06

1064875



SGS Environmental CUSTODY SEAL

Signature: [Signature] Date/Time: 8/21/06 1200

SGS Environmental CUSTODY SEAL

Signature: [Signature] Date/Time: 8/21/06 1200

SGS Environmental CUSTODY SEAL

Signature: [Signature] Date/Time: 8/21/06 1200

SGS Environmental CUSTODY SEAL

Signature: [Signature] Date/Time: 8/21/06 1200

SGS Environmental CUSTODY SEAL

Signature: [Signature] Date/Time: 8/21/06 1200

SGS Environmental CUSTODY SEAL

Signature: [Signature] Date/Time: 8/21/06 1200

SGS Environmental CUSTODY SEAL

Signature: [Signature] Date/Time: 8/21/06 1200

CUSTODY SEAL

Environmental



Signature: [Signature]

Date/Time: 8/21/06 1200

Report Summary

Labreport	Sampid	Labrsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
1064875	06GAM05GS17	1064875001	WG	CS	8270SIM	SW3510C	08/17/200 6	08/23/200 6	08/29/200 6	XXX17166	1
1064875	06GAM05GS17	1064875001	WG	CS	AK101	SW5030B	08/17/200 6	08/31/200 6	08/31/200 6	VXX15887	1
1064875	06GAM05GS17	1064875001	WG	CS	AK102	SW3520C	08/17/200 6	08/22/200 6	08/23/200 6	XXX17157	1
1064875	06GAM05GS17	1064875001	WG	CS	AK103	SW3520C	08/17/200 6	08/22/200 6	08/23/200 6	XXX17157A	1
1064875	06GAM05GS17	1064875001	WG	CS	SW6020	SW3010A	08/17/200 6	08/22/200 6	08/24/200 6	MXX18020	1
1064875	06GAM05GS17	1064875001	WG	CS	SW6020	SW3010A	08/17/200 6	08/22/200 6	08/30/200 6	MXX18020	2
1064875	06GAM05GS17	1064875001	WG	CS	SW8260B	SW5030B	08/17/200 6	08/22/200 6	08/23/200 6	VXX15821	1
1064875	06GAM05GS18	1064875002	WG	CS	AK101	SW5030B	08/16/200 6	08/30/200 6	08/30/200 6	VXX15877	1
1064875	06GAM05GS18	1064875002	WG	CS	SW6020	SW3010A	08/16/200 6	08/22/200 6	08/24/200 6	MXX18020	1
1064875	06GAM05GS18	1064875002	WG	CS	SW6020	SW3010A	08/16/200 6	08/22/200 6	08/30/200 6	MXX18020	2
1064875	06GAM05GS18	1064875002	WG	CS	SW8260B	SW5030B	08/16/200 6	08/22/200 6	08/23/200 6	VXX15821	1
1064875	06GAM05GS19	1064875003	WG	CS	8270SIM	SW3510C	08/16/200 6	08/23/200 6	08/29/200 6	XXX17166	1
1064875	06GAM05GS19	1064875003	WG	CS	AK101	SW5030B	08/16/200 6	08/28/200 6	08/28/200 6	VXX15871	1
1064875	06GAM05GS19	1064875003	WG	CS	AK102	SW3520C	08/16/200 6	08/23/200 6	08/24/200 6	XXX17165	1
1064875	06GAM05GS19	1064875003	WG	CS	AK103	SW3520C	08/16/200 6	08/23/200 6	08/24/200 6	XXX17165A	1
1064875	06GAM05GS19	1064875003	WG	CS	SW6020	SW3010A	08/16/200 6	08/22/200 6	08/24/200 6	MXX18020	1
1064875	06GAM05GS19	1064875003	WG	CS	SW6020	SW3010A	08/16/200 6	08/22/200 6	08/30/200 6	MXX18020	2
1064875	06GAM05GS19	1064875003	WG	CS	SW8260B	SW5030B	08/16/200 6	08/22/200 6	08/23/200 6	VXX15821	1
1064875	06GAM05GS21	1064875004	WG	CS	8270SIM	SW3510C	08/16/200 6	08/23/200 6	08/29/200 6	XXX17166	1

09/29/200

Report Summary

Labreport	Samplid	Labsamplid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
1064875	06GAM05GS21	1064875004	WG	CS	AK101	SW5030B	08/16/200 6	08/28/200 6	08/28/200 6	VXX15871	1
1064875	06GAM05GS21	1064875004	WG	CS	AK102	SW3520C	08/16/200 6	08/23/200 6	08/24/200 6	XXX17165	1
1064875	06GAM05GS21	1064875004	WG	CS	AK103	SW3520C	08/16/200 6	08/23/200 6	08/24/200 6	XXX17165A	1
1064875	06GAM05GS21	1064875004	WG	CS	SW6020	SW3010A	08/16/200 6	08/22/200 6	08/24/200 6	MXX18020	1
1064875	06GAM05GS21	1064875004	WG	CS	SW6020	SW3010A	08/16/200 6	08/22/200 6	08/30/200 6	MXX18020	2
1064875	06GAM05GS21	1064875004	WG	CS	SW8260B	SW5030B	08/16/200 6	08/22/200 6	08/23/200 6	VXX15821	1
1064875	06GAM05GS22	1064875005	WG	CS	8270SIM	SW3510C	08/16/200 6	08/23/200 6	08/29/200 6	XXX17166	1
1064875	06GAM05GS22	1064875005	WG	CS	AK101	SW5030B	08/16/200 6	08/28/200 6	08/28/200 6	VXX15871	1
1064875	06GAM05GS22	1064875005	WG	CS	AK102	SW3520C	08/16/200 6	08/23/200 6	08/24/200 6	XXX17165	1
1064875	06GAM05GS22	1064875005	WG	CS	AK103	SW3520C	08/16/200 6	08/23/200 6	08/24/200 6	XXX17165A	1
1064875	06GAM05GS22	1064875005	WG	CS	SW6020	SW3010A	08/16/200 6	08/22/200 6	08/24/200 6	MXX18020	1
1064875	06GAM05GS22	1064875005	WG	CS	SW6020	SW3010A	08/16/200 6	08/22/200 6	08/30/200 6	MXX18020	2
1064875	06GAM05GS22	1064875005	WG	CS	SW8260B	SW5030B	08/16/200 6	08/22/200 6	08/23/200 6	VXX15821	1
1064875	06GAM05GS23	1064875006	WG	CS	8270SIM	SW3510C	08/16/200 6	08/23/200 6	08/29/200 6	XXX17166	1
1064875	06GAM05GS23	1064875006	WG	CS	AK101	SW5030B	08/16/200 6	08/30/200 6	08/30/200 6	VXX15877	1
1064875	06GAM05GS23	1064875006	WG	CS	AK102	SW3520C	08/16/200 6	08/23/200 6	08/24/200 6	XXX17165	1
1064875	06GAM05GS23	1064875006	WG	CS	AK103	SW3520C	08/16/200 6	08/23/200 6	08/24/200 6	XXX17165A	1
1064875	06GAM05GS23	1064875006	WG	CS	SW6020	SW3010A	08/16/200 6	08/22/200 6	08/24/200 6	MXX18020	1
1064875	06GAM05GS23	1064875006	WG	CS	SW6020	SW3010A	08/16/200 6	08/22/200 6	08/30/200 6	MXX18020	2

Report Summary

Labreport	Sampld	Labsampld	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctf	Run Sub
1064875	06GAM05GS23	1064875006	WG	CS	SW8260B	SW5030B	08/16/2006	08/22/2006	08/23/2006	VXX15821	1
1064875	06GAM05GS24	1064875007	WG	CS	8270SIM	SW3510C	08/16/2006	08/23/2006	08/29/2006	XXX17166	1
1064875	06GAM05GS24	1064875007	WG	CS	AK101	SW5030B	08/16/2006	08/30/2006	08/30/2006	VXX15877	1
1064875	06GAM05GS24	1064875007	WG	CS	AK102	SW3520C	08/16/2006	08/23/2006	08/24/2006	XXX17165	1
1064875	06GAM05GS24	1064875007	WG	CS	AK103	SW3520C	08/16/2006	08/23/2006	08/24/2006	XXX17165A	1
1064875	06GAM05GS24	1064875007	WG	CS	SW6020	SW3010A	08/16/2006	08/22/2006	08/24/2006	MXX18020	1
1064875	06GAM05GS24	1064875007	WG	CS	SW6020	SW3010A	08/16/2006	08/22/2006	08/30/2006	MXX18020	2
1064875	06GAM05GS24	1064875007	WG	CS	SW8260B	SW5030B	08/16/2006	08/22/2006	08/23/2006	VXX15821	1
1064875	06GAM05GS25	1064875008	WG	CS	8270SIM	SW3510C	08/16/2006	08/23/2006	08/29/2006	XXX17166	1
1064875	06GAM05GS25	1064875008	WG	CS	AK101	SW5030B	08/16/2006	08/30/2006	08/30/2006	VXX15877	1
1064875	06GAM05GS25	1064875008	WG	CS	AK102	SW3520C	08/16/2006	08/23/2006	08/24/2006	XXX17165	1
1064875	06GAM05GS25	1064875008	WG	CS	AK103	SW3520C	08/16/2006	08/23/2006	08/24/2006	XXX17165A	1
1064875	06GAM05GS25	1064875008	WG	CS	SW6020	SW3010A	08/16/2006	08/22/2006	08/24/2006	MXX18020	1
1064875	06GAM05GS25	1064875008	WG	CS	SW6020	SW3010A	08/16/2006	08/22/2006	08/30/2006	MXX18020	2
1064875	06GAM05GS25	1064875008	WG	CS	SW8260B	SW5030B	08/16/2006	08/22/2006	08/23/2006	VXX15821	1
1064875	06GAM05GSTB4-1	1064875010	WS	CS	AK101	SW5030B	08/17/2006	08/30/2006	08/30/2006	VXX15877	1
1064875	06GAM05GSTB4-1	1064875010	WS	CS	SW8260B	SW5030B	08/17/2006	08/22/2006	08/23/2006	VXX15821	1
1064875	06GAM05GSTB4-2	1064875011	WS	CS	AK101	SW5030B	08/17/2006	08/30/2006	08/30/2006	VXX15877	1
1064875	06GAM05GSTB4-2	1064875011	WS	CS	SW8260B	SW5030B	08/17/2006	08/22/2006	08/23/2006	VXX15821	1

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
1064875	06GAM05GSTB4-3	1064875012	WS	CS	AK101	SW5030B	08/17/2006	08/31/2006	08/31/2006	VXX15887	1
1064875	06GAM05GSTB4-3	1064875012	WS	CS	SW8260B	SW5030B	08/17/2006	08/22/2006	08/23/2006	VXX15821	1
1064875	06GAM12SL03Re	1064875009	SO	CS	A2540G	NONE	08/15/2006	08/22/2006	08/22/2006	SPT6918	1
1064875	06GAM12SL03Re	1064875009	SO	CS	SW6020	SW3050B	08/15/2006	08/22/2006	08/22/2006	MXX18013	1
		1064196001	SO	NC	SW6020	SW3050B	/ /	08/21/2006	08/22/2006	MXX18013	1
		1064669001	WS	NC	AK101	SW5030B	/ /	08/30/2006	08/30/2006	VXX15877	1
		1064802012	SO	NC	A2540G	NONE	/ /	08/22/2006	08/22/2006	SPT6918	1
		1064819055	WS	NC	SW6020	SW3010A	/ /	08/22/2006	08/24/2006	MXX18020	1
		1064852049	WS	NC	AK101	SW5030B	/ /	08/30/2006	08/30/2006	VXX15877	1
		724478	WS	NC	AK101	SW5030B	/ /	08/31/2006	08/31/2006	VXX15887	1
		721624	WQ	BD1	AK102	SW3520C	/ /	08/22/2006	08/23/2006	XXX17157	1
		721624	WQ	BD1	AK103	SW3520C	/ /	08/22/2006	08/23/2006	XXX17157A	1
		721850	WQ	BD1	SW8260B	SW5030B	/ /	08/22/2006	08/22/2006	VXX15821	1
		722002	WQ	BD1	AK102	SW3520C	/ /	08/23/2006	08/24/2006	XXX17165	1
		722002	WQ	BD1	AK103	SW3520C	/ /	08/23/2006	08/24/2006	XXX17165A	1
		722011	WQ	BD1	8270SIM	SW3510C	/ /	08/23/2006	08/29/2006	XXX17166	1
		723736	WQ	BD1	AK101	SW5030B	/ /	08/28/2006	08/28/2006	VXX15871	1
		721623	WQ	BS1	AK102	SW3520C	/ /	08/22/2006	08/23/2006	XXX17157	1
		721623	WQ	BS1	AK103	SW3520C	/ /	08/22/2006	08/23/2006	XXX17157A	1

Report Summary

Labreport	Sampid	Labreport	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
721849		WQ	BS1	SW8260B	SW5030B	/ /	08/22/200	08/22/200	08/22/200	VXX15821	1
							6	6	6		
721865		SQ	BS1	SW6020	SW3050B	/ /	08/21/200	08/22/200	08/22/200	MXX18013	1
							6	6	6		
722001		WQ	BS1	AK102	SW3520C	/ /	08/23/200	08/24/200	08/24/200	XXX17165	1
							6	6	6		
722001		WQ	BS1	AK103	SW3520C	/ /	08/23/200	08/24/200	08/24/200	XXX17165A	1
							6	6	6		
722010		WQ	BS1	8270SIM	SW3510C	/ /	08/23/200	08/29/200	08/29/200	XXX17166	1
							6	6	6		
722052		WQ	BS1	SW6020	SW3010A	/ /	08/22/200	08/24/200	08/24/200	MXX18020	1
							6	6	6		
723735		WQ	BS1	AK101	SW5030B	/ /	08/28/200	08/28/200	08/28/200	VXX15871	1
							6	6	6		
724099		WQ	BS1	AK101	SW5030B	/ /	08/30/200	08/30/200	08/30/200	VXX15877	1
							6	6	6		
724474		WQ	BS1	AK101	SW5030B	/ /	08/31/200	08/31/200	08/31/200	VXX15887	1
							6	6	6		
721852		WQ	CC	SW8260B	NONE	/ /	08/22/200	08/22/200	08/22/200	VXX15821	1
							6	6	6		
722098		WQ	CC	SW8260B	NONE	/ /	08/23/200	08/23/200	08/23/200	VXX15821	1
							6	6	6		
722201		WQ	CC	SW6020	NONE	/ /	08/22/200	08/22/200	08/22/200	MXX18013	1
							6	6	6		
722203		WQ	CC	SW6020	NONE	/ /	08/22/200	08/22/200	08/22/200	MXX18013	1
							6	6	6		
722205		WQ	CC	SW6020	NONE	/ /	08/22/200	08/22/200	08/22/200	MXX18013	1
							6	6	6		
722207		WQ	CC	SW6020	NONE	/ /	08/22/200	08/22/200	08/22/200	MXX18013	1
							6	6	6		
722370		WQ	CC	AK102	NONE	/ /	08/23/200	08/23/200	08/23/200	XXX17157	1
							6	6	6		
722371		WQ	CC	AK103	NONE	/ /	08/23/200	08/23/200	08/23/200	XXX17157A	1
							6	6	6		
722372		WQ	CC	AK103	NONE	/ /	08/23/200	08/23/200	08/23/200	XXX17157A	1
							6	6	6		
722373		WQ	CC	AK102	NONE	/ /	08/23/200	08/23/200	08/23/200	XXX17157	1
							6	6	6		

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Animcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
	722431		WQ	CC	AK102	NONE	/ /	08/23/2006	08/23/2006	XXX17157	1
	722432		WQ	CC	AK103	NONE	/ /	08/23/2006	08/23/2006	XXX17157A	1
	722433		WQ	CC	AK102	NONE	/ /	08/23/2006	08/23/2006	XXX17157	1
	722434		WQ	CC	AK103	NONE	/ /	08/23/2006	08/23/2006	XXX17157A	1
	722619		WQ	CC	AK102	NONE	/ /	08/24/2006	08/24/2006	XXX17165	1
	722620		WQ	CC	AK103	NONE	/ /	08/24/2006	08/24/2006	XXX17165A	1
	722621		WQ	CC	AK102	NONE	/ /	08/24/2006	08/24/2006	XXX17165	1
	722622		WQ	CC	AK103	NONE	/ /	08/24/2006	08/24/2006	XXX17165A	1
	722640		WQ	CC	AK102	NONE	/ /	08/24/2006	08/24/2006	XXX17165	1
	722641		WQ	CC	AK103	NONE	/ /	08/24/2006	08/24/2006	XXX17165A	1
	722879		WQ	CC	SW6020	NONE	/ /	08/24/2006	08/24/2006	MX18020	1
	722881		WQ	CC	SW6020	NONE	/ /	08/24/2006	08/24/2006	MX18020	1
	722883		WQ	CC	SW6020	NONE	/ /	08/24/2006	08/24/2006	MX18020	1
	722885		WQ	CC	SW6020	NONE	/ /	08/24/2006	08/24/2006	MX18020	1
	722960		WQ	CC	AK102	NONE	/ /	08/24/2006	08/24/2006	XXX17165	1
	722961		WQ	CC	AK103	NONE	/ /	08/24/2006	08/24/2006	XXX17165A	1
	723782		WQ	CC	AK101	NONE	/ /	08/28/2006	08/28/2006	VXX15871	1
	723784		WQ	CC	AK101	NONE	/ /	08/28/2006	08/28/2006	VXX15871	1
	723786		WQ	CC	AK101	NONE	/ /	08/29/2006	08/29/2006	VXX15871	1

Report Summary

Labreport	Sampid	Labreport	Sampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
	724003			WQ	CC	8270SIM	NONE	/ /	08/29/200 6	08/29/200 6	XXX17166	1
	724117			WQ	CC	AK101	NONE	/ /	08/30/200 6	08/30/200 6	VXX15877	1
	724120			WQ	CC	AK101	NONE	/ /	08/30/200 6	08/30/200 6	VXX15877	1
	724122			WQ	CC	AK101	NONE	/ /	08/30/200 6	08/30/200 6	VXX15877	1
	724126			WQ	CC	8270SIM	NONE	/ /	08/30/200 6	08/30/200 6	XXX17166	1
	724226			WQ	CC	SW6020	NONE	/ /	08/30/200 6	08/30/200 6	MXX18020	1
	724228			WQ	CC	SW6020	NONE	/ /	08/30/200 6	08/30/200 6	MXX18020	1
	724496			WQ	CC	AK101	NONE	/ /	08/31/200 6	08/31/200 6	VXX15887	1
	724512			WQ	CC	AK101	NONE	/ /	08/31/200 6	08/31/200 6	VXX15887	1
	722197			WQ	IC	SW6020	NONE	/ /	08/22/200 6	08/22/200 6	MXX18013	1
	722864			WQ	IC	SW6020	NONE	/ /	08/24/200 6	08/24/200 6	MXX18020	1
	724216			WQ	IC	SW6020	NONE	/ /	08/30/200 6	08/30/200 6	MXX18020	1
	722198			WQ	IC1	SW6020	NONE	/ /	08/22/200 6	08/22/200 6	MXX18013	1
	722865			WQ	IC1	SW6020	NONE	/ /	08/24/200 6	08/24/200 6	MXX18020	1
	724217			WQ	IC1	SW6020	NONE	/ /	08/30/200 6	08/30/200 6	MXX18020	1
	721621			SQ	LB1	A2540G	NONE	/ /	08/22/200 6	08/22/200 6	SPT6918	1
	721622			WQ	LB1	AK102	SW3520C	/ /	08/22/200 6	08/23/200 6	XXX17157	1
	721622			WQ	LB1	AK103	SW3520C	/ /	08/22/200 6	08/23/200 6	XXX17157A	1
	721848			WQ	LB1	SW8260B	SW5030B	/ /	08/22/200 6	08/22/200 6	VXX15821	1

Report Summary

Labreport	Sampid	Labrpt	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
721864		SQ	LB1	SW6020	SW3050B	/ /	08/21/2006	08/22/2006	MX18013	1
722000		WQ	LB1	AK102	SW3520C	/ /	08/23/2006	08/24/2006	XX17165	1
722000		WQ	LB1	AK103	SW3520C	/ /	08/23/2006	08/24/2006	XX17165A	1
722009		WQ	LB1	8270SIM	SW3510C	/ /	08/23/2006	08/30/2006	XX17166	1
722051		WQ	LB1	SW6020	SW3010A	/ /	08/22/2006	08/24/2006	MX18020	1
723734		WQ	LB1	AK101	SW5030B	/ /	08/28/2006	08/28/2006	VXX15871	1
724097		WQ	LB1	AK101	SW5030B	/ /	08/30/2006	08/30/2006	VXX15877	1
724470		WQ	LB1	AK101	SW5030B	/ /	08/31/2006	08/31/2006	VXX15887	1
721715		SO	LR1	A2540G	NONE	/ /	08/22/2006	08/22/2006	SPT6918	1
1064852050		WS	MS1	AK101	SW5030B	/ /	08/30/2006	08/30/2006	VXX15877	1
721866		SO	MS1	SW6020	SW3050B	/ /	08/21/2006	08/22/2006	MX18013	1
722053		WS	MS1	SW6020	SW3010A	/ /	08/22/2006	08/24/2006	MX18020	1
724481		WS	MS1	AK101	SW5030B	/ /	08/31/2006	08/31/2006	VXX15887	1
721868		SO	MS2	SW6020	SW3050B	/ /	08/21/2006	08/22/2006	MX18013	1
722055		WS	MS2	SW6020	SW3010A	/ /	08/22/2006	08/24/2006	MX18020	1
724102		WS	MS2	AK101	SW5030B	/ /	08/30/2006	08/30/2006	VXX15877	1
721851		WQ	RS1	SW8260B	NONE	/ /	08/22/2006	08/22/2006	VXX15821	1
722097		WQ	RS1	SW8260B	NONE	/ /	08/22/2006	08/22/2006	VXX15821	1
722199		WQ	RS1	SW6020	NONE	/ /	08/22/2006	08/22/2006	MX18013	1

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
	722202		WQ	RS1	SW6020	NONE	/ /	08/22/200 6	08/22/200 6	MXX18013	1
	722204		WQ	RS1	SW6020	NONE	/ /	08/22/200 6	08/22/200 6	MXX18013	1
	722206		WQ	RS1	SW6020	NONE	/ /	08/22/200 6	08/22/200 6	MXX18013	1
	722208		WQ	RS1	SW6020	NONE	/ /	08/22/200 6	08/22/200 6	MXX18013	1
	722369		WQ	RS1	AK102	NONE	/ /	08/23/200 6	08/23/200 6	XXX17157	1
	722369		WQ	RS1	AK103	NONE	/ /	08/23/200 6	08/23/200 6	XXX17157A	1
	722618		WQ	RS1	AK102	NONE	/ /	08/24/200 6	08/24/200 6	XXX17165	1
	722618		WQ	RS1	AK103	NONE	/ /	08/24/200 6	08/24/200 6	XXX17165A	1
	722880		WQ	RS1	SW6020	NONE	/ /	08/24/200 6	08/24/200 6	MXX18020	1
	722882		WQ	RS1	SW6020	NONE	/ /	08/24/200 6	08/24/200 6	MXX18020	1
	722884		WQ	RS1	SW6020	NONE	/ /	08/24/200 6	08/24/200 6	MXX18020	1
	722886		WQ	RS1	SW6020	NONE	/ /	08/24/200 6	08/24/200 6	MXX18020	1
	723780		WQ	RS1	AK101	NONE	/ /	08/28/200 6	08/28/200 6	VXX15871	1
	724002		WQ	RS1	8270SIM	NONE	/ /	08/29/200 6	08/29/200 6	XXX17166	1
	724115		WQ	RS1	AK101	NONE	/ /	08/30/200 6	08/30/200 6	VXX15877	1
	724125		WQ	RS1	8270SIM	NONE	/ /	08/30/200 6	08/30/200 6	XXX17166	1
	724219		WQ	RS1	SW6020	NONE	/ /	08/30/200 6	08/30/200 6	MXX18020	1
	724227		WQ	RS1	SW6020	NONE	/ /	08/30/200 6	08/30/200 6	MXX18020	1
	724229		WQ	RS1	SW6020	NONE	/ /	08/30/200 6	08/30/200 6	MXX18020	1

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Animcode	Exmcode	Logdate	Extdate	Anadate	Labiocfl	Run	Sub
		724495	WQ	RS1	AK101	NONE	/ /	08/31/200 6	08/31/200 6	VXX15887	1	
		1064852051	WS	SD1	AK101	SW5030B	/ /	08/30/200 6	08/30/200 6	VXX15877	1	
		721867	SO	SD1	SW6020	SW3050B	/ /	08/21/200 6	08/22/200 6	MXX18013	1	
		722054	WS	SD1	SW6020	SW3010A	/ /	08/22/200 6	08/24/200 6	MXX18020	1	
		724482	WS	SD1	AK101	SW5030B	/ /	08/31/200 6	08/31/200 6	VXX15887	1	
		724103	WS	SD2	AK101	SW5030B	/ /	08/30/200 6	08/30/200 6	VXX15877	1	

Code List

Code	Name
!	Out of control limits
1C	First Column Result - The Value Obtained from the First Column
2C	Second Column Result - The Value Obtained from the Second Column
<	Less Than
=	Equal To
>	Greater Than
AAC	American Analytics, Chatsworth, CA
AACS	Aspen Analytical, Colorado Springs, CO
ABCP	ABC Environmental Laboratories, Pico Rivera, CA
ACET	ACE Laboratories, Inc., Thousand Oaks, CA
ACTD	Accutest Mid-Atlantic, Dayton, NJ
ACTH	Accutest Gulfcoast, Houston, TX
ACTM	Accutest New England, Marlborough, MA
ACTO	Accutest Southeast, Orlando, FL
ACZ	ACZ Laboratories, Steamboat, CO
AEH	AEH
AEHA	Army Environmental Hygiene Agency (AEHA), APG, MD
AEIW	AN/EN Inc., Watsonville, CA
AELF	American Environmental Laboratories, Pensacola, FL
AENP	American Environmental Network, Portland, OR
AETB	American Environmental Testing Laboratory, Inc., Burbank, CA
ALAB	Associated Laboratories, Orange, CA
ALIC	AccuLabs, Inc., City of Industry, CA
ALID	AccuLabs, Inc., Davis, CA
ALPS	Alpha Analytical, Inc., Sparks, NV
ALPU	Alpha Analytical Laboratories, Ukiah, CA
ALTC	Alta Analytical Lab Incorporated, El Dorado Hills, CA
ALWM	A&L Western Laboratories, Inc., Modesto, CA
AMKR	AMK Environmental Labs, LLC, Riverside, CA
AMSC	AmeriSci Los Angeles, Carson, CA
APHC	Applied Physics & Chemistry Laboratory, Chino, CA
APPL	Agriculture & Priority Pollutants Laboratories, Fresno, CA
ARDL	Applied Research and Development Lab, Inc., (ARDL) Mt. Vernon, IL
ARGC	Argon Laboratories, Ceres, CA
ARI	Analytical Resources, Inc., Seattle, WA
ASC2	Alpha Scientific Corporation, Cerritos, CA
ASCI	Analytical Sciences, Petaluma, CA
ASLL	American Scientific Laboratories, LLC, Los Angeles, CA
ATCA	Analytica Alaska, Inc., Anchorage, AK
ATCC	Analytica Environmental Labs, Inc., Thornton, CO
ATCJ	Analytica Alaska, Inc., Juneau, AK
A TEM	Asbestos TEM Laboratories, Berkeley, CA
ATIA	Analytical Technologies, Inc., Anchorage, AK
ATIR	Analytical Technologies, Inc., Renton, WA
ATIS	Analytical Technologies, Inc., San Diego, CA
ATLC	Air Technology Laboratories, City of Industry, CA
ATOX	Air Toxics LTD, Folsom, CA
AVTS	Advanced Technology Laboratories, Signal Hill, CA
AXYS	Axys Analytical Services, Ltd., Sidney, B.C., Canada
BAAP	Badger Army Ammunition Plant Env. Lab, Baraboo, WI
BASH	Baseline Analytical Services, Huntington Beach, CA
BAW	Bace Analytical, Windsor, CA
BCE	Brown & Caldwell Analytical Lab, Emeryville, CA

Code	Name
BCLB	BC Laboratories, Bakersfield, CA
BD	Blank Spike Duplicate
BDO	Battelle Duxbury Operations, Duxbury, MA
BLPH	Block Environmental Services, Pleasant Hill, CA
BLR	Basic Laboratory, Redding, CA
BMLA	Boreochem Mobile Lab & Analytical Services
BMSS	Battelle Marine Sciences Laboratory, Sequim, WA
BRS	Brelje & Race, Santa Rosa, CA
BS	Blank Spike
BSKL	BSK Laboratories, Inc., Fresno, CA
BVLB	BioVir Laboratories, Inc., Benicia, CA
CALA	Castle Analytical Laboratory, Atwater, CA
CALN	Caltest Analytical Laboratory, Napa, CA
CALR	Centrum Analytical Laboratories, Inc., Riverside, CA
CALS	Centrum Analytical Laboratories, Inc., Signal Hill, CA
CAPC	CAPCO Analytical Services, Inc., Ventura, CA
CASB	Columbia Analytical Services, Inc., Bothell, WA
CASD	Columbia Analytical Services, Inc., Redding, CA
CASH	Columbia Analytical Services, Inc., Houston, TX
CASK	Columbia Analytical Services, Inc., Kelso, WA
CASL	Columbia Analytical Services, Inc., Canoga Park, CA
CASP	Columbia Analytical Services, Inc., Phoenix, AZ
CASS	Columbia Analytical Services, Inc., Simi Valley, CA
CAWL	California Water Labs, Inc., Modesto, CA
CB	Calibration Blank
CC	Continuing Calibration Verification
CCN	Ceimic Corporation, Narragansett, RI
CDL	Contract Required Detection Limit
CDM	CDM Federal Programs Corporation
CELG	Calscience Environmental Laboratories, Inc., Garden Grove, CA
CELL	Creek Environmental Laboratories, Inc., San Luis Obispo, CA
CELR	Chevron Environmental Laboratory, Richmond, CA
CELS	Chemical & Environmental Laboratories, Inc., Santa Fe Springs, CA
CFWM	City of Fresno Wastewater Management, Fresno, CA
CHEM	Chemic Laboratory, San Diego, CA
CHMC	CH2M Hill Analytical Services, Corvallis, OR
CHMM	CH2M Hill Analytical Services, Montgomery, AL
CHRP	ChromaLab, Inc., Pleasanton, CA
CKY	CKY Inc., Torrance, CA
CLPA	Contract Laboratory Program Accuracy Limits for Spiked Samples
CLPCC	CLP Continuing Calibration Acceptance Criteria
CLPIC	CLP Initial Calibration Acceptance Criteria
CLPLR	Contract Laboratory Program Precision for Lab Replicates
CLPP	Contract Laboratory Program Precision Limits for Spiked Samples
CLSR	California Laboratory Services, Rancho Cordova, CA
CLTP	Clayton Environmental Consultants, Inc., Pleasanton, CA
CRLB	Century Refining (CENREF) Labs, Inc., Brighton, CO
CRLS	CRL Environmental Laboratories, Sacramento, CA
CS	Client Sample
CTB	Curtis & Tompkins, Berkeley, CA
CTE	CT&E Environmental Services, Inc., Anchorage, AK
CTEC	CT&E Environmental Services, Inc., Charleston, WV
CTEP	Cal Tech Environmental Laboratories, Inc., Paramount, CA
CTES	Chemtek Environmental Laboratories, Santa Fe Springs, CA
CTLB	CT Laboratories, Baraboo, WI

Code	Name
CTLM	Cooper Testing Laboratory, Mountain View, CA
CWTB	Commonwealth Technologies, Baraboo, WI
DCHM	DataChem Laboratories, Inc., Salt Lake City, UT
DDL	Method Defined Detection Limit
DELB	Delta Environmental Laboratories, Benicia, CA
DELS	Delta Environmental Laboratories, San Jose, CA
DHLR	DHL Analytical, Round Rock, TX
DLLC	Davy Laboratories, LaCrosse, WI
DLP	Davi Laboratories, Pinole, CA
DMAC	Del Mar Analytical, Colton, CA
DMAI	Del Mar Analytical, Irvine, CA
DMAP	Del Mar Analytical, Phoenix, AZ
DMP	D & M Laboratories, Petaluma, CA
DOWL	Dowl Engineering Alaska Test Labs, Anchorage, AK
DT	Dilution Test
DTAS	D-TEK Analytical Laboratories, Inc., San Diego, CA
DU	Data Unavailable
DU	Data Unavailable
EAL	Elite Analytical, Livermore, CA
EALS	Entech Analytical Labs, Inc., Santa Clara, CA
EALY	Entech Analytical Labs, Inc., Sunnyvale, CA
EASL	Environmental Analytical Services, Inc., Luis Obispo, CA
EBA	EBA
EBMU	East Bay Municipal Utility District Laboratory, Oakland, CA
ECEN	Ecology & Environment, Inc.
ECGB	EnChem, Green Bay, WI
ECI	EcoChem, Inc., Seattle, WA
ECIP	Enviro-Chem, Inc., Pomona, CA
ECK	EnChem, Kimberly, WI
ECLL	Environmental Chemistry Lab at LLNL, Livermore, CA
EEIS	Envirodyne Engineers, Inc., St. Louis, MO
EELR	Excelchem Environmental Labs, Roseville, CA
EELS	Environmental Engineering Laboratory, San Diego, CA
EMAS	EnviroMatrix Analytical, Inc., San Diego, CA
EMXT	EMAX Laboratories, Inc., Torrance, CA
ENSR	ENSR International, Santa Ana, CA
EPA9	U.S. Environmental Protection Agency, Region 9 Lab, Richmond, CA
EQL	Estimated Quantitation Limit
EQLS	Environmental Quality Laboratory at UTC, San Jose, CA
ERDL	ERD, Lawrence Livermore National Laboratory, Livermore, CA
ESBR	E. S. Babcock & Sons, Inc., Riverside, CA
ESC	Environmental Science Corporation, Mount Juliet, TN
ESR	Eberline Services, Richmond, CA
ESTI	Environmental Support Technologies, Inc., Irvine, CA
ETCS	ETC, Santa Rosa, CA
FAED	Frontier Analytical, El Dorado Hills, CA
FBIS	Friedman & Bruya, Inc., Seattle, WA
FGIS	Frontier Geosciences, Inc., Seattle, WA
FGL	Fruit Growers Laboratory, Inc., Stockton, CA
FGLE	FGL Environmental, Santa Paula, CA
FORA	Forensic Analytical
GALM	GeoAnalytical Laboratories, Inc., Modesto, CA
GBLR	Great Basin Laboratories, Inc., Reno, NV
GCAL	Gulf Coast Analytical Lab, Baton Rouge, LA
GELC	General Engineering Laboratories, Inc., Charleston, SC

Code	Name
GENC	GTEL Environmental Labs, Inc., Concord, CA
GGHO	G.G. Hatch Isotope Laboratories, Ottawa, Ontario, Canada
GLES	Galson Laboratories, E. Syracuse, NY
GPLG	GPL Laboratories, LLLP, Gaithersburg, MD
H2MM	H2M Labs, Inc., Melville, NY
HALB	Halcyon Laboratories, Bakersfield, CA
HEAA	Hall Environmental Analysis Laboratory, Albuquerque, NM
HLV	Herguth Laboratories, Inc., Vallejo, CA
HPLE	HP Labs, Escondido, CA
HWLQ	Henrici Water Laboratory, Quincy, CA
IC	Initial Calibration Verification
IDL	Instrument Detection Limit
IELA	InterPhase Environmental, Inc., Los Angeles, CA
IN	Internal Standard
JEIF	Jones Environmental, Inc., Fullerton, CA
JLAM	JL Analytical Services, Modesto, CA
KD	Known (External Reference Material) Duplicate
KESM	Kemron Environmental Services, Marietta, OH
KIC	KIC Lab, Prudhoe Bay, AK
KIFF	Kiff Analytical LLC, Davis, CA
KLIA	Kinnetic Laboratories, Inc., Anchorage, AK
KLIC	Kinnetic Laboratories, Inc., Carlsbad, CA
KLIL	Kinnetic Laboratories, Inc., Lahhaina, HI
KLIS	Kinnetic Laboratories, Inc., Santa Cruz, CA
KLR	Kensington Laboratories, Richmond, CA
KMO	Kinder Morgan, Orange, CA
KPIS	KPrime, Inc., Santa Rosa, CA
LAB1	Laboratory 1
LAB2	Laboratory 2
LAL	Lockheed Analytical Laboratory, Las Vegas, NV
LASL	Los Alamos Scientific Laboratory, Los Alamos, NM
LB	Lab Blank
LCC	Laboratory Continuing Calibration Accuracy
LCLW	LifeChem Laboratory Services, Woodland Hills, CA
LCMS	LLNL Chemistry & Materials Sciences Analytical Lab, Livermore, CA
LDC	Laboratory Data Consultants
LIC	Laboratory Initial Calibration Accuracy
LICP	ICP MS Facility, LLNL, Livermore, CA
LL	Lancaster Laboratories, Inc., Lancaster, PA
LLD	Lowest Level of Detection
LLR	Laboratory Established Precision for Lab Replicates
LOQ	Limit of Quantitation
LR	Lab Replicate
LSA	Laboratory Sample Accuracy for Spiked Samples
LSP	Laboratory Sample Precision for Spiked Samples
LTL	Laucks Testing Lab, Inc.
MCAP	McCampbell Analytical, Pacheco, CA
MCLL	Mobile Chem Labs, Inc., Lafayette, CA
MDL	Method Detection Limit
MEA	Method Established Accuracy for Spiked Samples
MEC	MEC Analytical Systems, Inc., Carlsbad, CA
MECC	Method Established Continuing Calibration Acceptance Criteria
MEIC	Method Established Initial Calibration Acceptance Criteria
MELR	Method Established Precision for Laboratory Replicates
MEP	Method Established Precision for Spiked Samples

Code	Name
MLIC	Michelson Laboratories, Inc., Commerce, CA
MLR	Matrix Laboratory Replicate Precision
MOLE	Mobile One Laboratories, Inc., Escondido, CA
MPP	Microseeps, Pittsburgh, PA
MRL	Method Reporting Limit (lowest standard adjusted for prep.)
MS	GC/MS Result - Value Confirmed Using GC/MS
MS	Lab Matrix Spike
MSA	Matrix Spike Accuracy for Spiked Samples
MSLV	MID-STATE Laboratory LLC, Visalia, CA
MSP	Matrix Spike Precision for Spiked Samples
MSSL	Mountain States Analytical, Salt Lake City, UT
MWHM	MWH Labs, Monrovia, CA
MWLP	Montgomery Watson Laboratories, Pasadena, CA
NA	Not Applicable
NA	Not Available - Result Not Available
NC	Non-Client Sample
NCAA	North Creek Analytical, Anchorage, AK
NCAB	North Creek Analytical, Bothell, WA
NCAC	North Creek Analytical, Bend, OR
NCAP	North Creek Analytical, Beaverton, OR
NCAS	North Creek Analytical, Spokane, WA
NCLA	North Coast Laboratories, Arcata, CA
ND	Not Detected
NELL	NEL Laboratories, Inc., Las Vegas, NV
NLSC	Northern Lake Service, Crandon, WI
NR	Not Reported - Data Not Reported
NRES	Navy Regional Environmental Lab, San Diego, CA
NSEF	North State Environmental, South San Francisco, CA
NSLF	North State Labs, South San Francisco, CA
NTL	Northern Testing Laboratories, Anchorage, AK
NTLF	Northern Testing Laboratories, Fairbanks, AK
NU	Not Usable - Data Not Usable
NWCC	Northwest Colorado Consultants, Inc., Steamboat Springs, CO
OCAT	Orange Coast Analytical, Inc., Tustin, CA
OECS	Oilfield Environmental and Compliance, Santa Maria, CA
OEIR	OnSite Environmental, Inc., Redmond, WA
PA	Present/Absent
PAC	Pacific Analytical, Carlsbad, CA
PAIR	Precision Analytical, Inc., Richmond, CA
PAIS	Performance Analytical, Inc., Simi Valley, CA
PALA	Pacific Analytical Laboratory, Alameda, CA
PARA	Paragon Analytics, Inc., CO
PASA	Pace Analytical Services, Inc., Asheville, NC
PASC	Pace Analytical Services, Inc., Huntersville, NC
PASH	Pace Analytical Services, Inc., Houston, TX
PASI	Pace Analytical Services, Inc., Indianapolis, IN
PASN	Pace Analytical Services, Inc., St. Rose, LA
PCL	Pat-Chem Laboratories, Moorpark, CA
PD	Post-Digestion Spike Duplicate
PDMW	Paradigm Analytical Laboratories, Wilmington, NC
PETS	Precision Enviro-Tech, Stockton, CA
PHLE	Philip Environmental
PIC	Pace Analytical Services, Inc., Camarillo, CA
PIHB	Pace Analytical Services, Inc., Huntington Beach, CA
PIL	Pace Analytical Services, Inc., Lenexa, KS

Code	Name
PIM	Pace Analytical Services, Inc., Minneapolis, MN
PIN	Pace Analytical Services, Inc., Novato, CA
PINY	Pace Analytical Services, Inc., New York, NY
PIP	Pace Analytical Services, Inc., Pittsburgh, PA
PITB	Pace Analytical Services, Inc., Tampa Bay, FL
PIWF	Pace Analytical Services, Inc., Wappingers Falls, NY
PLSA	Positive Lab Service, Los Angeles, CA
PLW	Perry Laboratory, Watsonville, CA
PNLE	Pacific Northwest Laboratories, Eugene, OR
PQL	Practical Quantitation Limit
PR	Primary Result - The Primary Result for a Parameter
PRL	Parameter Range Limit
PS	Post-Digestion Spike
QALA	Quality Analytical Laboratores, Inc., Montgomery, AL
QALC	Quality Analytical Laboratories, Inc., Redding, CA
RCHR	RCH Research & Env. Laboratories, Inc., Rancho Dominguez, CA
RFWC	Roy F. Weston, West Chester, PA
RFWS	Roy F. Weston, Stockton, CA
RM	Known (External Reference Material)
RS	Reagent Solvent
SAFW	Star Analytical, Fort Worth, TX
SALR	Shasta Analytical Laboratory, Inc., Redding, CA
SAS	Sound Analytical Services, Inc., Tacoma, WA
SBSA	Both Reagent and Matrix Sample Accuracy for Surrogates
SBSP	Both Reagent and Matrix Sample Precision for Surrogates
SC3S	S-Cubed, A Division of Maxwell Laboratories, Inc., San Diego, CA
SCLA	Contract Laboratory Program Limits for Surrogate Accuracy
SCLP	Contract Laboratory Program Limits for Surrogate Precision
SCLW	Soil Control Lab, Watsonville, CA
SCST	Southern California Soil & Testing, Inc., San Diego, CA
SD	Lab Matrix Spike Duplicate
SDGE	Environmental Analysis Lab, SDGE, San Diego, CA
SEMS	Sierra Environmental Monitoring, Sparks, NV
SEQC	Sequoia Analytical Laboratories, Inc., San Carlos, CA
SEQM	Sequoia Analytical Laboratories, Inc., Morgan Hill, CA
SEQP	Sequoia Analytical Laboratories, Inc., Petaluma, CA
SEQS	Sequoia Analytical Laboratories, Inc., Sacramento, CA
SEQW	Sequoia Analytical Laboratories, Inc., Walnut Creek, CA
SGSA	SGS Environmental Services Inc., Anchorage, AK
SGSL	SGS Michigan Division, Ludington, MI
SHLH	Sherwood Labs Corporation, Hilmar, CA
SIRL	Sierra Analytical Labs, Inc., Laguna Hills, CA
SLMP	Stanford Linear Accelerator Center, Menlo Park, CA
SLOC	San Luis Obispo Cnt. Eng. Dept. Environ. Lab, San Luis Obispo, CA
SLSA	Laboratory Sample Limits for Accuracy for Surrogates
SLSP	Laboratory Sample Limits for Precision for Surrogates
SMEA	Method Established Limits for Accuracy for Surrogates
SMEP	Method Established Limits for Precision for Surrogates
SMSA	Sample Matrix Limits for Accuracy for Surrogates
SMSP	Sample Matrix Limits for Precision for Surrogates
SPEC	Spectra Laboratory, Inc., Tacoma, WA
SPLH	SPL Houston Laboratory, Houston, TX
SPLL	SPL Lafayette Laboratory, Scott, LA
SPLM	SPL Michigan Laboratory, Traverse City, MI
SR	Semi-Quantitative Result

Code	Name
SRAD	Standard Reference Accuracy Defined by Agency/Manufacturer
SRMA	Standard Reference Material Accuracy Limits Determined by Lab
SRMP	Standard Reference Material Precision Limits Determined by Lab
SRPD	Standard Reference Precision Defined by Agency/Manufacturer
SSLE	SunStar Laboratories, Inc., Encinitas, CA
SSLT	SunStar Laboratories, Inc., Tustin, CA
STCL	STL ChromaLab, Inc., Pleasanton, CA
STEH	Sierra Testing Lab, El Dorado Hills, CA
STIS	Sparger Technology, Inc., Sacramento, CA
STL1	STL Denver, Arvada, CO
STL2	Severn Trent Laboratories, Edison, NJ
STL3	STL Los Angeles, Santa Ana, CA
STL4	Severn Trent Laboratories, Miramar, FL
STL5	Severn Trent Laboratories, Newburgh, NY
STL6	Severn Trent Laboratories, Colchester, VT
STL8	STL Seattle, Seattle, WA
STL9	Severn Trent Laboratories, Inc., Chicago, IL
STLB	Severn Trent Laboratories, Sparks, MD
STLC	Severn Trent Laboratories, North Canton, OH
STLD	Severn Trent Laboratories, Austin, TX
STLE	Severn Trent Laboratories, Tallahassee, FL
STLF	Severn Trent Laboratories, Tampa, FL
STLG	Severn Trent Laboratories, Savannah, GA
STLH	Severn Trent Laboratories, Houston, TX
STLI	Severn Trent Laboratories, Pensacola, FL
STLJ	Severn Trent Laboratories, N. Billerica, MA
STLK	STL Knoxville, Knoxville, TN
STLL	Severn Trent Laboratories, Earth City, MO
STLM	Severn Trent Laboratories, Monroe, CT
STLO	Severn Trent Laboratories, Mobile, AL
STLP	STL Pittsburgh, Pittsburgh, PA
STLQ	Severn Trent Laboratories, Amherst, NY
STLR	Severn Trent Laboratories, Richland, WA
STLS	STL Sacramento, West Sacramento, CA
STLT	Severn Trent Laboratories, Austin, TX (Quanterra)
STLU	Severn Trent Laboratories, University Park, IL
STLV	Severn Trent Laboratories, Valparaiso, IN
STLW	Severn Trent Laboratories, Westfield, MA
STLX	Severn Trent Laboratories, Tampa, FL (Savannah)
STLY	Severn Trent Laboratories, Whippany, NJ
STLZ	Severn Trent Laboratories, Corpus Christi, TX
STSM	Southland Technical Services, Inc., Montebello, CA
SU	Surrogate
SWAA	Shannon & Wilson, Inc., Anchorage, AK
SWLB	Southwest Laboratory, Broken Arrow, OK
SWRI	Southwest Resarch Institute, San Antonio, TX
TAIC	TestAmerica, Irvine, CA
TAMC	TestAmerica, Morgan Hill, CA
TAN	TestAmerica, Nashville, TN
TAOC	TestAmerica, Ontario, CA
TAPA	TestAmerica, Phoenix, AZ
TAPO	TestAmerica, Portland, OR
TASC	TestAmerica, Sacramento, CA
TASW	TestAmerica, Seattle, WA
TDL	Target Method Detection Limit

Code	Name
TDLT	Truesdail Laboratories, Inc., Tustin, CA
TEGR	TEG Northern California, Inc., Rancho Cordova, CA
TGGB	TEG, Solana Beach, CA
TI	Tentatively Identified Compound
TLF	Twining Labs, Fresno, CA
TLIT	Turner Laboratories, Inc., Tucson, AZ
TLM	Torrent Laboratory, Milpitas, CA
TRID	Triangle Laboratories, Inc., Durham, NC
TSIW	ToxScan, Inc., Watsonville, CA
WALC	Western Analytical Laboratories, Inc., Chino, CA
WCAS	West Coast Analytical Services, Inc., Santa Fe Springs, CA
WLGA	W. L. Gore and Associates, Inc., Elkton, MD
WLIC	Weck Laboratories, Inc., City of Industry, CA
WPEL	City of LA Dept. Water & Power Environ. Lab, Los Angeles, CA
WQLC	JWPCP Water Quality Laboratory, Carson, CA
WQLW	San Jose Creek Water Quality Laboratory, Whittier, CA
XX	No QC for method
ZALB	Zalco Laboratories, Inc., Bakersfield, CA
ZXEO	ZymaX envirotechnology, San Luis Obispo, CA

Enclosed are the analytical results associated with this workorder.

As required by the state of Alaska and the USEPA, a formal Quality Assurance/Quality Control Program is maintained by SGS. A copy of our Quality Assurance Plan (QAP), which outlines this program is available at your request.

The laboratory certification numbers are AK971-05 (DW), UST-005 (CS) and AK00971 (Micro) for ADEC and 001327 for NELAP.

Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP, the National Environmental Laboratory Accreditation Program and, when applicable, other regulatory authorities.

If you have any questions regarding this report or if we can be of any assistance, please contact your SGS Project Manager at 907-562-2343.

The following descriptors may be found on your report which will serve to further qualify the data.

MDL	Method Detection Limit
PQL	Practical Quantitation Limit (reporting limit).
CL	Control Limit
U	Indicates the analyte was analyzed for but not detected.
F	Indicates value that is greater than or equal to the MDL.
J	The quantitation is an estimation.
ND	Indicates the analyte is not detected
B	Indicates the analyte is found in a blank associated with the sample.
*	The analyte has exceeded allowable regulatory or control limits.
GT	Greater Than
LT	Less Than
Q	QC parameter out of acceptance range.
M	A matrix effect was present.
E	The analyte result is above the calibrated range.
DF	Analytical Dilution Factor
JL	The analyte was positively identified, but the quantitation is a low estimation.
<Surr>	Surrogate QC spiked standard

Note: Soil samples are reported on a dry weight basis unless otherwise specified



SAMPLE SUMMARY

Print Date: 9/20/2006

Client Name: Bristol Environmental
Project Name: 56016 Gambell FUDS Rem Action
Workorder No.: 1064875

Analytical Methods

<u>Method Description</u>	<u>Analytical Method</u>
8270 PAH SIM Semi-Volatiles GC/MS	8270C SIMS
Diesel/Residual Range Organics Water	AK102
Diesel/Residual Range Organics Water	AK103
Gasoline Range Organics (W)	AK101
Metals by ICP-MS	SW6020
Metals by ICP-MS (S)	SW6020
Percent Solids SM2540G	SM20 2540G
Volatile Organic Compounds (W)	SW8260B

Sample ID Cross Reference

<u>Lab Sample ID</u>	<u>Client Sample ID</u>
1064875001	06GAM05GS17
1064875002	06GAM05GS18
1064875003	06GAM05GS19
1064875004	06GAM05GS21
1064875005	06GAM05GS22
1064875006	06GAM05GS23
1064875007	06GAM05GS24
1064875008	06GAM05GS25
1064875009	06GAM12SL03Re
1064875010	06GAM05GSTB4
1064875011	06GAM05GSTB4
1064875012	06GAM05GSTB4



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS17**
SGS Ref. #: 1064875001
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/17/06 13:35
Receipt Date/Time: 08/21/06 12:45
Location: PWS

Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Arsenic	ND	10.0	5.00	ug/L	5	MMS4365	MXX18020	
Barium	3.56	3.00	0.940	ug/L	5	MMS4365	MXX18020	B
Cadmium	ND	2.00	1.00	ug/L	5	MMS4365	MXX18020	
Chromium	5.83	4.00	1.20	ug/L	5	MMS4379	MXX18020	
Lead	2.83	1.00	0.310	ug/L	5	MMS4365	MXX18020	
Vanadium	ND	20.0	6.20	ug/L	5	MMS4365	MXX18020	
Nickel	1.49 J	2.00	0.620	ug/L	5	MMS4365	MXX18020	

Batch Information

Analytical Batch: MMS4365
Analytical Method: SW6020
Analysis Date/Time: 08/24/06 18:43
Dilution Factor: 5

Prep Batch: MXX18020
Prep Method: SW3010A
Prep Date/Time: 08/22/06 16:00

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 50 mL
Container ID:1064875001-G
Analyst: SCL

Analytical Batch: MMS4379
Analytical Method: SW6020
Analysis Date/Time: 08/30/06 16:07
Dilution Factor: 5

Prep Batch: MXX18020
Prep Method: SW3010A
Prep Date/Time: 08/22/06 16:00

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 50 mL
Container ID:1064875001-G
Analyst: SCL



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS17**
SGS Ref. #: 1064875001
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/17/06 13:35
Receipt Date/Time: 08/21/06 12:45
Location: PWS

Volatile Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Gasoline Range Organics	ND	100	10.0	ug/L	1	VFC8010	VXX15887	
4-Bromofluorobenzene <sur>	87.7	50-150		%	1	VFC8010	VXX15887	

Batch Information

Analytical Batch: VFC8010
Analytical Method: AK101
Analysis Date/Time: 08/31/06 16:07
Dilution Factor: 1

Prep Batch: VXX15887
Prep Method: SW5030B
Prep Date/Time: 08/31/06 08:00

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID: 1064875001-B
Analyst: MCM



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS17**
SGS Ref. #: 1064875001
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/17/06 13:35
Receipt Date/Time: 08/21/06 12:45
Location: PWS

Semivolatile Organic Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Diesel Range Organics	0.0699 J	0.300	0.0600	mg/L	1	XFC7117	XXX17157	
Residual Range Organics	0.170 J	0.500	0.0600	mg/L	1	XFC7117	XXX17157	
n-Triacontane-d62 <sur>	99.7	50-150		%	1	XFC7117	XXX17157	
5a Androstane <sur>	91.1	50-150		%	1	XFC7117	XXX17157	

Batch Information

Analytical Batch: XFC7117	Prep Batch: XXX17157	Initial Prep Wt./Vol.: 1000 mL
Analytical Method: AK102	Prep Method: SW3520C	Prep Extract Vol.: 1 mL
Analysis Date/Time: 08/23/06 14:22	Prep Date/Time: 08/22/06 10:10	Container ID:1064875001-H
Dilution Factor: 1		Analyst: JE
Analytical Batch: XFC7117	Prep Batch: XXX17157	Initial Prep Wt./Vol.: 1000 mL
Analytical Method: AK103	Prep Method: SW3520C	Prep Extract Vol.: 1 mL
Analysis Date/Time: 08/23/06 14:22	Prep Date/Time: 08/22/06 10:10	Container ID:1064875001-H
Dilution Factor: 1		Analyst: JE



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS17**
SGS Ref. #: 1064875001
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/17/06 13:35
Receipt Date/Time: 08/21/06 12:45
Location: PWS

BTEX/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Benzene	ND	0.400	0.120	ug/L	1	VMS8619	VXX15821	
Toluene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
Ethylbenzene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
P & M -Xylene	ND	2.00	0.620	ug/L	1	VMS8619	VXX15821	
o-Xylene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
4-Bromofluorobenzene <surr>	99.9	76-119		%	1	VMS8619	VXX15821	
Dibromofluoromethane <surr>	106	85-115		%	1	VMS8619	VXX15821	
1,2-Dichloroethane-D4 <surr>	107	72-119		%	1	VMS8619	VXX15821	
Toluene-d8 <surr>	101	85-120		%	1	VMS8619	VXX15821	

Batch Information

Analytical Batch: VMS8619
Analytical Method: SW8260B
Analysis Date/Time: 08/23/06 03:33
Dilution Factor: 1

Prep Batch: VXX15821
Prep Method: SW5030B
Prep Date/Time: 08/22/06 08:28

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID: 1064875001-D
Analyst: WAW



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS17**
SGS Ref. #: 1064875001
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/17/06 13:35
Receipt Date/Time: 08/21/06 12:45
Location: PWS

Polynuclear Aromatics GC/MS

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Acenaphthylene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
2-Methylnaphthalene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Acenaphthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Fluorene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Phenanthrene	ND	0.100	0.0310	ug/L	1	XMS3757	XXX17166	
Anthracene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Fluoranthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Pyrene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo(a)Anthracene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Chrysene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo[b]Fluoranthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo[a]pyrene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Indeno[1,2,3-c,d] pyrene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Dibenzo[a,h]anthracene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo[g,h,i]perylene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Naphthalene	ND	0.100	0.0310	ug/L	1	XMS3757	XXX17166	
1-Methylnaphthalene	ND	0.100	0.0310	ug/L	1	XMS3757	XXX17166	
Benzo[k]fluoranthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Terphenyl-d14 <surr>	66.7	50-120		%	1	XMS3757	XXX17166	

Batch Information

Analytical Batch: XMS3757
Analytical Method: 8270C SIMS
Analysis Date/Time: 08/29/06 20:16
Dilution Factor: 1

Prep Batch: XXX17166
Prep Method: SW3510C
Prep Date/Time: 08/23/06 11:15

Initial Prep Wt./Vol.: 1000 mL
Prep Extract Vol.: 1 mL
Container ID:1064875001-J
Analyst: KWM



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS18**
SGS Ref. #: 1064875002
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 19:00
Receipt Date/Time: 08/21/06 12:45
Location: MW-31

Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Arsenic	ND	10.0	5.00	ug/L	5	MMS4365	MXX18020	
Barium	12.3	3.00	0.940	ug/L	5	MMS4365	MXX18020	B
Cadmium	ND	2.00	1.00	ug/L	5	MMS4365	MXX18020	
Chromium	ND	4.00	1.20	ug/L	5	MMS4379	MXX18020	
Lead	10.3	1.00	0.310	ug/L	5	MMS4365	MXX18020	
Vanadium	ND	20.0	6.20	ug/L	5	MMS4365	MXX18020	
Nickel	7.36	2.00	0.620	ug/L	5	MMS4365	MXX18020	

Batch Information

Analytical Batch: MMS4365
Analytical Method: SW6020
Analysis Date/Time: 08/24/06 18:48
Dilution Factor: 5

Prep Batch: MXX18020
Prep Method: SW3010A
Prep Date/Time: 08/22/06 16:00

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 50 mL
Container ID:1064875002-G
Analyst: SCL

Analytical Batch: MMS4379
Analytical Method: SW6020
Analysis Date/Time: 08/30/06 16:12
Dilution Factor: 5

Prep Batch: MXX18020
Prep Method: SW3010A
Prep Date/Time: 08/22/06 16:00

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 50 mL
Container ID:1064875002-G
Analyst: SCL



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS18**
SGS Ref. #: 1064875002
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 19:00
Receipt Date/Time: 08/21/06 12:45
Location: MW-31

Volatile Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Gasoline Range Organics	ND	100	10.0	ug/L	1	VFC8005	VXX15877	
4-Bromofluorobenzene <sur>	66.5	50-150		%	1	VFC8005	VXX15877	

Batch Information

Analytical Batch: VFC8005
Analytical Method: AK101
Analysis Date/Time: 08/30/06 20:18
Dilution Factor: 1

Prep Batch: VXX15877
Prep Method: SW5030B
Prep Date/Time: 08/30/06 11:00

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID:1064875002-A
Analyst: HM



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS18**
SGS Ref. #: 1064875002
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 19:00
Receipt Date/Time: 08/21/06 12:45
Location: MW-31

BTEX/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Benzene	ND	0.400	0.120	ug/L	1	VMS8619	VXX15821	
Toluene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
Ethylbenzene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
P & M -Xylene	ND	2.00	0.620	ug/L	1	VMS8619	VXX15821	
o-Xylene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
4-Bromofluorobenzene <surr>	101	76-119		%	1	VMS8619	VXX15821	
Dibromofluoromethane <surr>	108	85-115		%	1	VMS8619	VXX15821	
1,2-Dichloroethane-D4 <surr>	109	72-119		%	1	VMS8619	VXX15821	
Toluene-d8 <surr>	100	85-120		%	1	VMS8619	VXX15821	

Batch Information

Analytical Batch: VMS8619
Analytical Method: SW8260B
Analysis Date/Time: 08/23/06 04:07
Dilution Factor: 1

Prep Batch: VXX15821
Prep Method: SW5030B
Prep Date/Time: 08/22/06 08:28

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID: 1064875002-D
Analyst: WAW



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS19**
SGS Ref. #: 1064875003
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 12:30
Receipt Date/Time: 08/21/06 12:45
Location: MW-30

Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Arsenic	ND	10.0	5.00	ug/L	5	MMS4365	MXX18020	
Barium	ND	3.00	0.940	ug/L	5	MMS4365	MXX18020	
Cadmium	ND	2.00	1.00	ug/L	5	MMS4365	MXX18020	
Chromium	ND	4.00	1.20	ug/L	5	MMS4379	MXX18020	
Lead	ND	1.00	0.310	ug/L	5	MMS4365	MXX18020	
Vanadium	ND	20.0	6.20	ug/L	5	MMS4365	MXX18020	
Nickel	1.31 J	2.00	0.620	ug/L	5	MMS4365	MXX18020	

Batch Information

Analytical Batch: MMS4365
Analytical Method: SW6020
Analysis Date/Time: 08/24/06 18:53
Dilution Factor: 5

Prep Batch: MXX18020
Prep Method: SW3010A
Prep Date/Time: 08/22/06 16:00

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 50 mL
Container ID:1064875003-G
Analyst: SCL

Analytical Batch: MMS4379
Analytical Method: SW6020
Analysis Date/Time: 08/30/06 16:18
Dilution Factor: 5

Prep Batch: MXX18020
Prep Method: SW3010A
Prep Date/Time: 08/22/06 16:00

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 50 mL
Container ID:1064875003-G
Analyst: SCL



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS19**
SGS Ref. #: 1064875003
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 12:30
Receipt Date/Time: 08/21/06 12:45
Location: MW-30

Volatile Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Gasoline Range Organics	17.1 J	100	10.0	ug/L	1	VFC8003	VXX15871	
4-Bromofluorobenzene <sur>	84.4	50-150		%	1	VFC8003	VXX15871	

Batch Information

Analytical Batch: VFC8003
Analytical Method: AK101
Analysis Date/Time: 08/28/06 15:42
Dilution Factor: 1

Prep Batch: VXX15871
Prep Method: SW5030B
Prep Date/Time: 08/28/06 15:42

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID: 1064875003-A
Analyst: DNA



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS19**
SGS Ref. #: 1064875003
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 12:30
Receipt Date/Time: 08/21/06 12:45
Location: MWV-30

Semivolatile Organic Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Diesel Range Organics	0.495	0.300	0.0600	mg/L	1	XFC7118	XXX17165	
Residual Range Organics	0.113 J	0.500	0.0600	mg/L	1	XFC7118	XXX17165	
5a Androstane <surr>	92.2	50-150		%	1	XFC7118	XXX17165	
n-Triacontane-d62 <surr>	81.6	50-150		%	1	XFC7118	XXX17165	

Batch Information

Analytical Batch: XFC7118	Prep Batch: XXX17165	Initial Prep Wt./Vol.: 1000 mL
Analytical Method: AK102	Prep Method: SW3520C	Prep Extract Vol.: 1 mL
Analysis Date/Time: 08/24/06 12:57	Prep Date/Time: 08/23/06 09:50	Container ID:1064875003-H
Dilution Factor: 1		Analyst: JE
Analytical Batch: XFC7118	Prep Batch: XXX17165	Initial Prep Wt./Vol.: 1000 mL
Analytical Method: AK103	Prep Method: SW3520C	Prep Extract Vol.: 1 mL
Analysis Date/Time: 08/24/06 12:57	Prep Date/Time: 08/23/06 09:50	Container ID:1064875003-H
Dilution Factor: 1		Analyst: JE



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS19**
SGS Ref. #: 1064875003
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 12:30
Receipt Date/Time: 08/21/06 12:45
Location: MWV-30

BTEX/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Benzene	ND	0.400	0.120	ug/L	1	VMS8619	VXX15821	
Toluene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
Ethylbenzene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
P & M -Xylene	ND	2.00	0.620	ug/L	1	VMS8619	VXX15821	
o-Xylene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
4-Bromofluorobenzene <surr>	99.5	76-119		%	1	VMS8619	VXX15821	
Dibromofluoromethane <surr>	106	85-115		%	1	VMS8619	VXX15821	
1,2-Dichloroethane-D4 <surr>	108	72-119		%	1	VMS8619	VXX15821	
Toluene-d8 <surr>	99.3	85-120		%	1	VMS8619	VXX15821	

Batch Information

Analytical Batch: VMS8619
Analytical Method: SW8260B
Analysis Date/Time: 08/23/06 04:40
Dilution Factor: 1

Prep Batch: VXX15821
Prep Method: SW5030B
Prep Date/Time: 08/22/06 08:28

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID: 1064875003-D
Analyst: WAW



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS19**
SGS Ref. #: 1064875003
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 12:30
Receipt Date/Time: 08/21/06 12:45
Location: MVV-30

Polynuclear Aromatics GC/MS

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Acenaphthylene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
2-Methylnaphthalene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Acenaphthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Fluorene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Phenanthrene	ND	0.100	0.0310	ug/L	1	XMS3757	XXX17166	
Anthracene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Fluoranthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Pyrene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo(a)Anthracene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Chrysene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo[b]Fluoranthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo[a]pyrene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Indeno[1,2,3-c,d] pyrene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Dibenzo[a,h]anthracene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo[g,h,i]perylene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Naphthalene	ND	0.100	0.0310	ug/L	1	XMS3757	XXX17166	
1-Methylnaphthalene	ND	0.100	0.0310	ug/L	1	XMS3757	XXX17166	
Benzo[k]fluoranthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Terphenyl-d14 <surr>	68.5	50-120		%	1	XMS3757	XXX17166	

Batch Information

Analytical Batch: XMS3757
Analytical Method: 8270C SIMS
Analysis Date/Time: 08/29/06 20:48
Dilution Factor: 1

Prep Batch: XXX17166
Prep Method: SW3510C
Prep Date/Time: 08/23/06 11:15

Initial Prep Wt./Vol.: 1000 mL
Prep Extract Vol.: 1 mL
Container ID:1064875003-J
Analyst: KWM



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS21**
SGS Ref. #: 1064875004
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 11:50
Receipt Date/Time: 08/21/06 12:45
Location: MW-30

Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Arsenic	ND	10.0	5.00	ug/L	5	MMS4365	MXX18020	
Barium	ND	3.00	0.940	ug/L	5	MMS4365	MXX18020	
Cadmium	ND	2.00	1.00	ug/L	5	MMS4365	MXX18020	
Chromium	ND	4.00	1.20	ug/L	5	MMS4379	MXX18020	
Lead	0.391 J	1.00	0.310	ug/L	5	MMS4365	MXX18020	
Vanadium	ND	20.0	6.20	ug/L	5	MMS4365	MXX18020	
Nickel	1.16 J	2.00	0.620	ug/L	5	MMS4365	MXX18020	

Batch Information

Analytical Batch: MMS4365
Analytical Method: SW6020
Analysis Date/Time: 08/24/06 19:11
Dilution Factor: 5

Prep Batch: MXX18020
Prep Method: SW3010A
Prep Date/Time: 08/22/06 16:00

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 50 mL
Container ID:1064875004-G
Analyst: SCL

Analytical Batch: MMS4379
Analytical Method: SW6020
Analysis Date/Time: 08/30/06 16:23
Dilution Factor: 5

Prep Batch: MXX18020
Prep Method: SW3010A
Prep Date/Time: 08/22/06 16:00

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 50 mL
Container ID:1064875004-G
Analyst: SCL



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS21**
SGS Ref. #: 1064875004
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 11:50
Receipt Date/Time: 08/21/06 12:45
Location: MWV-30

Volatile Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Gasoline Range Organics	14.4 J	100	10.0	ug/L	1	VFC8003	VXX15871	
4-Bromofluorobenzene <sur>	85.9	50-150		%	1	VFC8003	VXX15871	

Batch Information

Analytical Batch: VFC8003
Analytical Method: AK101
Analysis Date/Time: 08/28/06 16:07
Dilution Factor: 1

Prep Batch: VXX15871
Prep Method: SW5030B
Prep Date/Time: 08/28/06 16:07

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID:1064875004-A
Analyst: DNA



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS21**
SGS Ref. #: 1064875004
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 11:50
Receipt Date/Time: 08/21/06 12:45
Location: MW-30

Semivolatile Organic Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Residual Range Organics	0.110 J	0.500	0.0600	mg/L	1	XFC7118	XXX17165	
Diesel Range Organics	0.736	0.300	0.0600	mg/L	1	XFC7118	XXX17165	
5a Androstane <surr>	80	50-150		%	1	XFC7118	XXX17165	
n-Triacontane-d62 <surr>	93.6	50-150		%	1	XFC7118	XXX17165	

Batch Information

Analytical Batch: XFC7118
Analytical Method: AK102
Analysis Date/Time: 08/24/06 13:01
Dilution Factor: 1

Prep Batch: XXX17165
Prep Method: SW3520C
Prep Date/Time: 08/23/06 09:50

Initial Prep Wt./Vol.: 1000 mL
Prep Extract Vol.: 1 mL
Container ID:1064875004-H
Analyst: JE

Analytical Batch: XFC7118
Analytical Method: AK103
Analysis Date/Time: 08/24/06 13:01
Dilution Factor: 1

Prep Batch: XXX17165
Prep Method: SW3520C
Prep Date/Time: 08/23/06 09:50

Initial Prep Wt./Vol.: 1000 mL
Prep Extract Vol.: 1 mL
Container ID:1064875004-H
Analyst: JE



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS21**
SGS Ref. #: 1064875004
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 11:50
Receipt Date/Time: 08/21/06 12:45
Location: MW-30

BTEX/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Benzene	ND	0.400	0.120	ug/L	1	VMS8619	VXX15821	
Toluene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
Ethylbenzene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
P & M -Xylene	ND	2.00	0.620	ug/L	1	VMS8619	VXX15821	
o-Xylene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
4-Bromofluorobenzene <surr>	101	76-119		%	1	VMS8619	VXX15821	
Dibromofluoromethane <surr>	107	85-115		%	1	VMS8619	VXX15821	
1,2-Dichloroethane-D4 <surr>	109	72-119		%	1	VMS8619	VXX15821	
Toluene-d8 <surr>	100	85-120		%	1	VMS8619	VXX15821	

Batch Information

Analytical Batch: VMS8619
Analytical Method: SW8260B
Analysis Date/Time: 08/23/06 05:13
Dilution Factor: 1

Prep Batch: VXX15821
Prep Method: SW5030B
Prep Date/Time: 08/22/06 08:28

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID: 1064875004-D
Analyst: WAW



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS21**
SGS Ref. #: 1064875004
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 11:50
Receipt Date/Time: 08/21/06 12:45
Location: MWV-30

Polynuclear Aromatics GC/MS

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Acenaphthylene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
2-Methylnaphthalene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Acenaphthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Fluorene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Phenanthrene	ND	0.100	0.0310	ug/L	1	XMS3757	XXX17166	
Anthracene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Fluoranthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Pyrene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo(a)Anthracene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Chrysene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo[b]Fluoranthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo[a]pyrene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Indeno[1,2,3-c,d] pyrene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Dibenzo[a,h]anthracene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo[g,h,i]perylene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Naphthalene	ND	0.100	0.0310	ug/L	1	XMS3757	XXX17166	
1-Methylnaphthalene	ND	0.100	0.0310	ug/L	1	XMS3757	XXX17166	
Benzo[k]fluoranthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Terphenyl-d14 <surr>	79	50-120		%	1	XMS3757	XXX17166	

Batch Information

Analytical Batch: XMS3757
Analytical Method: 8270C SIMS
Analysis Date/Time: 08/29/06 21:20
Dilution Factor: 1

Prep Batch: XXX17166
Prep Method: SW3510C
Prep Date/Time: 08/23/06 11:15

Initial Prep Wt./Vol.: 1000 mL
Prep Extract Vol.: 1 mL
Container ID:1064875004-J
Analyst: KWM



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS22**
SGS Ref. #: 1064875005
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 14:45
Receipt Date/Time: 08/21/06 12:45
Location: MW-14

Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Arsenic	ND	10.0	5.00	ug/L	5	MMS4365	MXX18020	
Barium	6.61	3.00	0.940	ug/L	5	MMS4365	MXX18020	B
Cadmium	ND	2.00	1.00	ug/L	5	MMS4365	MXX18020	
Chromium	4.97	4.00	1.20	ug/L	5	MMS4379	MXX18020	
Lead	0.520 J	1.00	0.310	ug/L	5	MMS4365	MXX18020	
Vanadium	ND	20.0	6.20	ug/L	5	MMS4365	MXX18020	
Nickel	1.66 J	2.00	0.620	ug/L	5	MMS4365	MXX18020	

Batch Information

Analytical Batch: MMS4365
Analytical Method: SW6020
Analysis Date/Time: 08/24/06 19:16
Dilution Factor: 5

Prep Batch: MXX18020
Prep Method: SW3010A
Prep Date/Time: 08/22/06 16:00

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 50 mL
Container ID:1064875005-G
Analyst: SCL

Analytical Batch: MMS4379
Analytical Method: SW6020
Analysis Date/Time: 08/30/06 16:28
Dilution Factor: 5

Prep Batch: MXX18020
Prep Method: SW3010A
Prep Date/Time: 08/22/06 16:00

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 50 mL
Container ID:1064875005-G
Analyst: SCL



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS22**
SGS Ref. #: 1064875005
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 14:45
Receipt Date/Time: 08/21/06 12:45
Location: MW-14

Volatile Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Gasoline Range Organics	11.4 J	100	10.0	ug/L	1	VFC8003	VXX15871	
4-Bromofluorobenzene <sur>	86.1	50-150		%	1	VFC8003	VXX15871	

Batch Information

Analytical Batch: VFC8003
Analytical Method: AK101
Analysis Date/Time: 08/28/06 16:33
Dilution Factor: 1

Prep Batch: VXX15871
Prep Method: SW5030B
Prep Date/Time: 08/28/06 16:33

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID:1064875005-A
Analyst: DNA



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS22**
SGS Ref. #: 1064875005
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 14:45
Receipt Date/Time: 08/21/06 12:45
Location: MW-14

Semivolatile Organic Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Residual Range Organics	ND	0.500	0.0600	mg/L	1	XFC7118	XXX17165	
Diesel Range Organics	ND	0.300	0.0600	mg/L	1	XFC7118	XXX17165	
n-Triacontane-d62 <sur>	73.8	50-150		%	1	XFC7118	XXX17165	
5a Androstane <sur>	85.2	50-150		%	1	XFC7118	XXX17165	

Batch Information

Analytical Batch: XFC7118
Analytical Method: AK102
Analysis Date/Time: 08/24/06 13:06
Dilution Factor: 1

Prep Batch: XXX17165
Prep Method: SW3520C
Prep Date/Time: 08/23/06 09:50

Initial Prep Wt./Vol.: 1000 mL
Prep Extract Vol.: 1 mL
Container ID:1064875005-H
Analyst: JE

Analytical Batch: XFC7118
Analytical Method: AK103
Analysis Date/Time: 08/24/06 13:06
Dilution Factor: 1

Prep Batch: XXX17165
Prep Method: SW3520C
Prep Date/Time: 08/23/06 09:50

Initial Prep Wt./Vol.: 1000 mL
Prep Extract Vol.: 1 mL
Container ID:1064875005-H
Analyst: JE



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS22**
SGS Ref. #: 1064875005
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 14:45
Receipt Date/Time: 08/21/06 12:45
Location: MW-14

BTEX/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Benzene	ND	0.400	0.120	ug/L	1	VMS8619	VXX15821	
Toluene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
Ethylbenzene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
P & M -Xylene	ND	2.00	0.620	ug/L	1	VMS8619	VXX15821	
o-Xylene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
4-Bromofluorobenzene <surr>	100	76-119		%	1	VMS8619	VXX15821	
Dibromofluoromethane <surr>	107	85-115		%	1	VMS8619	VXX15821	
1,2-Dichloroethane-D4 <surr>	108	72-119		%	1	VMS8619	VXX15821	
Toluene-d8 <surr>	99.9	85-120		%	1	VMS8619	VXX15821	

Batch Information

Analytical Batch: VMS8619
Analytical Method: SW8260B
Analysis Date/Time: 08/23/06 05:46
Dilution Factor: 1

Prep Batch: VXX15821
Prep Method: SW5030B
Prep Date/Time: 08/22/06 08:28

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID: 1064875005-D
Analyst: WAW



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS22**
SGS Ref. #: 1064875005
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 14:45
Receipt Date/Time: 08/21/06 12:45
Location: MW-14

Polynuclear Aromatics GC/MS

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Acenaphthylene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
2-Methylnaphthalene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Acenaphthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Fluorene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Phenanthrene	ND	0.100	0.0310	ug/L	1	XMS3757	XXX17166	
Anthracene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Fluoranthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Pyrene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo(a)Anthracene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Chrysene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo[b]Fluoranthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo[a]pyrene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Indeno[1,2,3-c,d] pyrene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Dibenzo[a,h]anthracene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo[g,h,i]perylene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Naphthalene	ND	0.100	0.0310	ug/L	1	XMS3757	XXX17166	
1-Methylnaphthalene	ND	0.100	0.0310	ug/L	1	XMS3757	XXX17166	
Benzo[k]fluoranthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Terphenyl-d14 <surr>	102	50-120		%	1	XMS3757	XXX17166	

Batch Information

Analytical Batch: XMS3757
Analytical Method: 8270C SIMS
Analysis Date/Time: 08/29/06 21:52
Dilution Factor: 1

Prep Batch: XXX17166
Prep Method: SW3510C
Prep Date/Time: 08/23/06 11:15

Initial Prep Wt./Vol.: 1000 mL
Prep Extract Vol.: 1 mL
Container ID: 1064875005-J
Analyst: KWM



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS23**
SGS Ref. #: 1064875006
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 15:50
Receipt Date/Time: 08/21/06 12:45
Location: MW-15

Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Arsenic	ND	10.0	5.00	ug/L	5	MMS4365	MXX18020	
Barium	7.55	3.00	0.940	ug/L	5	MMS4365	MXX18020	B
Cadmium	ND	2.00	1.00	ug/L	5	MMS4365	MXX18020	
Chromium	9.09	4.00	1.20	ug/L	5	MMS4379	MXX18020	
Lead	ND	1.00	0.310	ug/L	5	MMS4365	MXX18020	
Vanadium	ND	20.0	6.20	ug/L	5	MMS4365	MXX18020	
Nickel	1.19 J	2.00	0.620	ug/L	5	MMS4365	MXX18020	

Batch Information

Analytical Batch: MMS4365
Analytical Method: SW6020
Analysis Date/Time: 08/24/06 19:21
Dilution Factor: 5

Prep Batch: MXX18020
Prep Method: SW3010A
Prep Date/Time: 08/22/06 16:00

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 50 mL
Container ID:1064875006-G
Analyst: SCL

Analytical Batch: MMS4379
Analytical Method: SW6020
Analysis Date/Time: 08/30/06 16:33
Dilution Factor: 5

Prep Batch: MXX18020
Prep Method: SW3010A
Prep Date/Time: 08/22/06 16:00

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 50 mL
Container ID:1064875006-G
Analyst: SCL



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS23**
SGS Ref. #: 1064875006
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 15:50
Receipt Date/Time: 08/21/06 12:45
Location: MW-15

Volatile Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Gasoline Range Organics	ND	100	10.0	ug/L	1	VFC8005	VXX15877	
4-Bromofluorobenzene <sur>	67.8	50-150		%	1	VFC8005	VXX15877	

Batch Information

Analytical Batch: VFC8005
Analytical Method: AK101
Analysis Date/Time: 08/30/06 19:19
Dilution Factor: 1

Prep Batch: VXX15877
Prep Method: SW5030B
Prep Date/Time: 08/30/06 11:00

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID: 1064875006-A
Analyst: HM



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS23**
SGS Ref. #: 1064875006
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 15:50
Receipt Date/Time: 08/21/06 12:45
Location: MW-15

Semivolatile Organic Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Residual Range Organics	ND	0.500	0.0600	mg/L	1	XFC7118	XXX17165	
Diesel Range Organics	ND	0.300	0.0600	mg/L	1	XFC7118	XXX17165	
n-Triacontane-d62 <sur>	68.9	50-150		%	1	XFC7118	XXX17165	
5a Androstane <sur>	76	50-150		%	1	XFC7118	XXX17165	

Batch Information

Analytical Batch: XFC7118
Analytical Method: AK102
Analysis Date/Time: 08/24/06 13:27
Dilution Factor: 1

Prep Batch: XXX17165
Prep Method: SW3520C
Prep Date/Time: 08/23/06 09:50

Initial Prep Wt./Vol.: 1000 mL
Prep Extract Vol.: 1 mL
Container ID:1064875006-H
Analyst: JE

Analytical Batch: XFC7118
Analytical Method: AK103
Analysis Date/Time: 08/24/06 13:27
Dilution Factor: 1

Prep Batch: XXX17165
Prep Method: SW3520C
Prep Date/Time: 08/23/06 09:50

Initial Prep Wt./Vol.: 1000 mL
Prep Extract Vol.: 1 mL
Container ID:1064875006-H
Analyst: JE



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS23**
SGS Ref. #: 1064875006
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 15:50
Receipt Date/Time: 08/21/06 12:45
Location: MW-15

BTEX/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Benzene	ND	0.400	0.120	ug/L	1	VMS8619	VXX15821	
Toluene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
Ethylbenzene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
P & M -Xylene	ND	2.00	0.620	ug/L	1	VMS8619	VXX15821	
o-Xylene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
4-Bromofluorobenzene <surr>	101	76-119		%	1	VMS8619	VXX15821	
Dibromofluoromethane <surr>	107	85-115		%	1	VMS8619	VXX15821	
1,2-Dichloroethane-D4 <surr>	109	72-119		%	1	VMS8619	VXX15821	
Toluene-d8 <surr>	99.3	85-120		%	1	VMS8619	VXX15821	

Batch Information

Analytical Batch: VMS8619
Analytical Method: SW8260B
Analysis Date/Time: 08/23/06 06:20
Dilution Factor: 1

Prep Batch: VXX15821
Prep Method: SW5030B
Prep Date/Time: 08/22/06 08:28

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID: 1064875006-D
Analyst: WAW



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS23**
SGS Ref. #: 1064875006
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 15:50
Receipt Date/Time: 08/21/06 12:45
Location: MW-15

Polynuclear Aromatics GC/MS

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Acenaphthylene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
2-Methylnaphthalene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Acenaphthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Fluorene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Phenanthrene	ND	0.100	0.0310	ug/L	1	XMS3757	XXX17166	
Anthracene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Fluoranthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Pyrene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo(a)Anthracene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Chrysene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo[b]Fluoranthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo[a]pyrene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Indeno[1,2,3-c,d] pyrene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Dibenzo[a,h]anthracene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo[g,h,i]perylene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Naphthalene	ND	0.100	0.0310	ug/L	1	XMS3757	XXX17166	
1-Methylnaphthalene	ND	0.100	0.0310	ug/L	1	XMS3757	XXX17166	
Benzo[k]fluoranthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Terphenyl-d14 <surr>	77.9	50-120		%	1	XMS3757	XXX17166	

Batch Information

Analytical Batch: XMS3757
Analytical Method: 8270C SIMS
Analysis Date/Time: 08/29/06 22:25
Dilution Factor: 1

Prep Batch: XXX17166
Prep Method: SW3510C
Prep Date/Time: 08/23/06 11:15

Initial Prep Wt./Vol.: 1000 mL
Prep Extract Vol.: 1 mL
Container ID:1064875006-J
Analyst: KWM



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS24**
SGS Ref. #: 1064875007
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 17:00
Receipt Date/Time: 08/21/06 12:45
Location: MW-32

Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Arsenic	ND	10.0	5.00	ug/L	5	MMS4365	MXX18020	
Barium	13.7	3.00	0.940	ug/L	5	MMS4365	MXX18020	B
Cadmium	ND	2.00	1.00	ug/L	5	MMS4365	MXX18020	
Chromium	6.62	4.00	1.20	ug/L	5	MMS4379	MXX18020	
Lead	0.421 J	1.00	0.310	ug/L	5	MMS4365	MXX18020	
Vanadium	ND	20.0	6.20	ug/L	5	MMS4365	MXX18020	
Nickel	2.11	2.00	0.620	ug/L	5	MMS4365	MXX18020	

Batch Information

Analytical Batch: MMS4365
Analytical Method: SW6020
Analysis Date/Time: 08/24/06 19:27
Dilution Factor: 5

Prep Batch: MXX18020
Prep Method: SW3010A
Prep Date/Time: 08/22/06 16:00

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 50 mL
Container ID: 1064875007-G
Analyst: SCL

Analytical Batch: MMS4379
Analytical Method: SW6020
Analysis Date/Time: 08/30/06 16:38
Dilution Factor: 5

Prep Batch: MXX18020
Prep Method: SW3010A
Prep Date/Time: 08/22/06 16:00

Initial Prep Wt./Vol.: 50 mL
Prep Extract Vol.: 50 mL
Container ID: 1064875007-G
Analyst: SCL



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS24**
SGS Ref. #: 1064875007
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 17:00
Receipt Date/Time: 08/21/06 12:45
Location: MW-32

Volatile Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Gasoline Range Organics	ND	100	10.0	ug/L	1	VFC8005	VXX15877	
4-Bromofluorobenzene <sur>	73.3	50-150		%	1	VFC8005	VXX15877	

Batch Information

Analytical Batch: VFC8005	Prep Batch: VXX15877	Initial Prep Wt./Vol.: 5 mL
Analytical Method: AK101	Prep Method: SW5030B	Prep Extract Vol.: 5 mL
Analysis Date/Time: 08/30/06 19:39	Prep Date/Time: 08/30/06 11:00	Container ID:1064875007-A
Dilution Factor: 1		Analyst: HM



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS24**
SGS Ref. #: 1064875007
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 17:00
Receipt Date/Time: 08/21/06 12:45
Location: MWV-32

Semivolatile Organic Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Residual Range Organics	ND	0.500	0.0600	mg/L	1	XFC7118	XXX17165	
Diesel Range Organics	ND	0.300	0.0600	mg/L	1	XFC7118	XXX17165	
n-Triacontane-d62 <surr>	74.6	50-150		%	1	XFC7118	XXX17165	
5a Androstane <surr>	83.1	50-150		%	1	XFC7118	XXX17165	

Batch Information

Analytical Batch: XFC7118	Prep Batch: XXX17165	Initial Prep Wt./Vol.: 1000 mL
Analytical Method: AK102	Prep Method: SW3520C	Prep Extract Vol.: 1 mL
Analysis Date/Time: 08/24/06 13:31	Prep Date/Time: 08/23/06 09:50	Container ID:1064875007-H
Dilution Factor: 1		Analyst: JE
Analytical Batch: XFC7118	Prep Batch: XXX17165	Initial Prep Wt./Vol.: 1000 mL
Analytical Method: AK103	Prep Method: SW3520C	Prep Extract Vol.: 1 mL
Analysis Date/Time: 08/24/06 13:31	Prep Date/Time: 08/23/06 09:50	Container ID:1064875007-H
Dilution Factor: 1		Analyst: JE



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS24**
SGS Ref. #: 1064875007
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 17:00
Receipt Date/Time: 08/21/06 12:45
Location: MW-32

BTEX/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Benzene	ND	0.400	0.120	ug/L	1	VMS8619	VXX15821	
Toluene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
Ethylbenzene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
P & M -Xylene	ND	2.00	0.620	ug/L	1	VMS8619	VXX15821	
o-Xylene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
4-Bromofluorobenzene <surr>	99.1	76-119		%	1	VMS8619	VXX15821	
Dibromofluoromethane <surr>	106	85-115		%	1	VMS8619	VXX15821	
1,2-Dichloroethane-D4 <surr>	108	72-119		%	1	VMS8619	VXX15821	
Toluene-d8 <surr>	100	85-120		%	1	VMS8619	VXX15821	

Batch Information

Analytical Batch: VMS8619
Analytical Method: SW8260B
Analysis Date/Time: 08/23/06 06:53
Dilution Factor: 1

Prep Batch: VXX15821
Prep Method: SW5030B
Prep Date/Time: 08/22/06 08:28

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID: 1064875007-D
Analyst: WAW



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS24**
SGS Ref. #: 1064875007
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 17:00
Receipt Date/Time: 08/21/06 12:45
Location: MW-32

Polynuclear Aromatics GC/MS

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Acenaphthylene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
2-Methylnaphthalene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Acenaphthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Fluorene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Phenanthrene	ND	0.100	0.0310	ug/L	1	XMS3757	XXX17166	
Anthracene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Fluoranthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Pyrene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo(a)Anthracene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Chrysene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo[b]Fluoranthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo[a]pyrene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Indeno[1,2,3-c,d] pyrene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Dibenzo[a,h]anthracene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo[g,h,i]perylene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Naphthalene	ND	0.100	0.0310	ug/L	1	XMS3757	XXX17166	
1-Methylnaphthalene	ND	0.100	0.0310	ug/L	1	XMS3757	XXX17166	
Benzo[k]fluoranthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Terphenyl-d14 <surr>	68	50-120		%	1	XMS3757	XXX17166	

Batch Information

Analytical Batch: XMS3757
Analytical Method: 8270C SIMS
Analysis Date/Time: 08/29/06 22:57
Dilution Factor: 1

Prep Batch: XXX17166
Prep Method: SW3510C
Prep Date/Time: 08/23/06 11:15

Initial Prep Wt./Vol.: 1000 mL
Prep Extract Vol.: 1 mL
Container ID: 1064875007-J
Analyst: KWM



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: 06GAM05GS25
SGS Ref. #: 1064875008
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 18:30
Receipt Date/Time: 08/21/06 12:45
Location: MWV-29

Metals by ICP/MS

Table with 9 columns: Parameter, Result, PQL/CL, MDL, Units, DF, Analytical Batch, Prep Batch, Qualifiers. Rows include Arsenic, Barium, Cadmium, Chromium, Lead, Vanadium, and Nickel.

Batch Information

Table with 3 columns: Analytical Batch/Method/Date/DF, Prep Batch/Method/Date, Initial Prep Wt./Vol./Prep Extract Vol./Container ID/Analyst.



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS25**
SGS Ref. #: 1064875008
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 18:30
Receipt Date/Time: 08/21/06 12:45
Location: MW-29

Volatile Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Gasoline Range Organics	ND	100	10.0	ug/L	1	VFC8005	VXX15877	
4-Bromofluorobenzene <sur>	70.8	50-150		%	1	VFC8005	VXX15877	

Batch Information

Analytical Batch: VFC8005
Analytical Method: AK101
Analysis Date/Time: 08/30/06 19:58
Dilution Factor: 1

Prep Batch: VXX15877
Prep Method: SW5030B
Prep Date/Time: 08/30/06 11:00

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID: 1064875008-A
Analyst: HM



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: 06GAM05GS25
SGS Ref. #: 1064875008
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 18:30
Receipt Date/Time: 08/21/06 12:45
Location: MW-29

Semivolatile Organic Fuels Department

Table with 9 columns: Parameter, Result, PQL/CL, MDL, Units, DF, Analytical Batch, Prep Batch, Qualifiers. Rows include Residual Range Organics, Diesel Range Organics, n-Triacontane-d62 <surr>, and 5a Androstane <surr>.

Batch Information

Analytical Batch: XFC7118
Analytical Method: AK102
Analysis Date/Time: 08/24/06 13:35
Dilution Factor: 1

Prep Batch: XXX17165
Prep Method: SW3520C
Prep Date/Time: 08/23/06 09:50

Initial Prep Wt./Vol.: 1000 mL
Prep Extract Vol.: 1 mL
Container ID:1064875008-H
Analyst: JE

Analytical Batch: XFC7118
Analytical Method: AK103
Analysis Date/Time: 08/24/06 13:35
Dilution Factor: 1

Prep Batch: XXX17165
Prep Method: SW3520C
Prep Date/Time: 08/23/06 09:50

Initial Prep Wt./Vol.: 1000 mL
Prep Extract Vol.: 1 mL
Container ID:1064875008-H
Analyst: JE



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS25**
SGS Ref. #: 1064875008
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 18:30
Receipt Date/Time: 08/21/06 12:45
Location: MW-29

BTEX/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Benzene	ND	0.400	0.120	ug/L	1	VMS8619	VXX15821	
Toluene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
Ethylbenzene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
P & M -Xylene	ND	2.00	0.620	ug/L	1	VMS8619	VXX15821	
o-Xylene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
4-Bromofluorobenzene <surr>	99.9	76-119		%	1	VMS8619	VXX15821	
Dibromofluoromethane <surr>	106	85-115		%	1	VMS8619	VXX15821	
1,2-Dichloroethane-D4 <surr>	109	72-119		%	1	VMS8619	VXX15821	
Toluene-d8 <surr>	101	85-120		%	1	VMS8619	VXX15821	

Batch Information

Analytical Batch: VMS8619
Analytical Method: SW8260B
Analysis Date/Time: 08/23/06 07:26
Dilution Factor: 1

Prep Batch: VXX15821
Prep Method: SW5030B
Prep Date/Time: 08/22/06 08:28

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID: 1064875008-D
Analyst: WAW



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GS25**
SGS Ref. #: 1064875008
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/16/06 18:30
Receipt Date/Time: 08/21/06 12:45
Location: MW-29

Polynuclear Aromatics GC/MS

Parameter	Result	PQL/CL	MDL	Units	DF	Analytical Batch	Prep Batch	Qualifiers
Acenaphthylene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
2-Methylnaphthalene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Acenaphthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Fluorene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Phenanthrene	ND	0.100	0.0310	ug/L	1	XMS3757	XXX17166	
Anthracene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Fluoranthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Pyrene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo(a)Anthracene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Chrysene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo[b]Fluoranthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo[a]pyrene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Indeno[1,2,3-c,d] pyrene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Dibenzo[a,h]anthracene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Benzo[g,h,i]perylene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Naphthalene	ND	0.100	0.0310	ug/L	1	XMS3757	XXX17166	
1-Methylnaphthalene	ND	0.100	0.0310	ug/L	1	XMS3757	XXX17166	
Benzo[k]fluoranthene	ND	0.0500	0.0150	ug/L	1	XMS3757	XXX17166	
Terphenyl-d14 <surr>	75.6	50-120		%	1	XMS3757	XXX17166	

Batch Information

Analytical Batch: XMS3757
Analytical Method: 8270C SIMS
Analysis Date/Time: 08/29/06 23:29
Dilution Factor: 1

Prep Batch: XXX17166
Prep Method: SW3510C
Prep Date/Time: 08/23/06 11:15

Initial Prep Wt./Vol.: 1000 mL
Prep Extract Vol.: 1 mL
Container ID: 1064875008-J
Analyst: KWM



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM12SL03Re**
SGS Ref. #: 1064875009
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Soil/Solid
Percent Solids: 94.9

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/15/06 21:00
Receipt Date/Time: 08/21/06 12:45

Metals by ICP/MS

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Lead	4.63	0.201	0.0624	mg/Kg	10	MMS4359	MXX18013	

Batch Information

Analytical Batch: MMS4359
Analytical Method: SW6020
Analysis Date/Time: 08/22/06 16:45
Dilution Factor: 10

Prep Batch: MXX18013
Prep Method: SW3050B
Prep Date/Time: 08/21/06 15:00

Initial Prep Wt./Vol.: 1.046 g
Prep Extract Vol.: 50 mL
Container ID: 1064875009-A
Analyst: SCL



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM12SL03Re**
SGS Ref. #: 1064875009
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Soil/Solid
Percent Solids: 94.9

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/15/06 21:00
Receipt Date/Time: 08/21/06 12:45

Solids

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Total Solids	94.9			%		SPT6918		

Batch Information

Analytical Batch: SPT6918
Analytical Method: SM20 2540G
Analysis Date/Time: 08/22/06 09:25

Initial Prep Wt./Vol.: 1 mL

Container ID:1064875009-A
Analyst: BNE



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GSTB4**
SGS Ref. #: 1064875010
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/17/06 00:00
Receipt Date/Time: 08/21/06 12:45
Location: Trip Blank

Volatile Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Gasoline Range Organics	ND	100	10.0	ug/L	1	VFC8005	VXX15877	
4-Bromofluorobenzene <sur>	66.6	50-150		%	1	VFC8005	VXX15877	

Batch Information

Analytical Batch: VFC8005
Analytical Method: AK101
Analysis Date/Time: 08/30/06 20:56
Dilution Factor: 1

Prep Batch: VXX15877
Prep Method: SW5030B
Prep Date/Time: 08/30/06 11:00

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID: 1064875010-C
Analyst: HM



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GSTB4**
SGS Ref. #: 1064875010
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/17/06 00:00
Receipt Date/Time: 08/21/06 12:45
Location: Trip Blank

BTEX/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Benzene	ND	0.400	0.120	ug/L	1	VMS8619	VXX15821	
Toluene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
Ethylbenzene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
P & M -Xylene	ND	2.00	0.620	ug/L	1	VMS8619	VXX15821	
o-Xylene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
4-Bromofluorobenzene <surr>	99.2	76-119		%	1	VMS8619	VXX15821	
Dibromofluoromethane <surr>	105	85-115		%	1	VMS8619	VXX15821	
1,2-Dichloroethane-D4 <surr>	107	72-119		%	1	VMS8619	VXX15821	
Toluene-d8 <surr>	101	85-120		%	1	VMS8619	VXX15821	

Batch Information

Analytical Batch: VMS8619
Analytical Method: SW8260B
Analysis Date/Time: 08/23/06 01:53
Dilution Factor: 1

Prep Batch: VXX15821
Prep Method: SW5030B
Prep Date/Time: 08/22/06 08:28

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID:1064875010-A
Analyst: WAW



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GSTB4**
SGS Ref. #: 1064875011
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/17/06 00:00
Receipt Date/Time: 08/21/06 12:45
Location: Trip Blank

Volatile Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Gasoline Range Organics	111	100	10.0	ug/L	1	VFC8005	VXX15877	
4-Bromofluorobenzene <sur>	84.8	50-150		%	1	VFC8005	VXX15877	

Batch Information

Analytical Batch: VFC8005
Analytical Method: AK101
Analysis Date/Time: 08/30/06 21:15
Dilution Factor: 1

Prep Batch: VXX15877
Prep Method: SW5030B
Prep Date/Time: 08/30/06 11:00

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID: 1064875011-C
Analyst: HM



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GSTB4**
SGS Ref. #: 1064875011
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/17/06 00:00
Receipt Date/Time: 08/21/06 12:45
Location: Trip Blank

BTEX/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Benzene	ND	0.400	0.120	ug/L	1	VMS8619	VXX15821	
Toluene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
Ethylbenzene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
P & M -Xylene	ND	2.00	0.620	ug/L	1	VMS8619	VXX15821	
o-Xylene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
4-Bromofluorobenzene <surr>	101	76-119		%	1	VMS8619	VXX15821	
Dibromofluoromethane <surr>	106	85-115		%	1	VMS8619	VXX15821	
1,2-Dichloroethane-D4 <surr>	108	72-119		%	1	VMS8619	VXX15821	
Toluene-d8 <surr>	100	85-120		%	1	VMS8619	VXX15821	

Batch Information

Analytical Batch: VMS8619
Analytical Method: SW8260B
Analysis Date/Time: 08/23/06 02:26
Dilution Factor: 1

Prep Batch: VXX15821
Prep Method: SW5030B
Prep Date/Time: 08/22/06 08:28

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID: 1064875011-A
Analyst: WAW



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GSTB4**
SGS Ref. #: 1064875012
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/17/06 00:00
Receipt Date/Time: 08/21/06 12:45
Location: Trip Blank

Volatile Fuels Department

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical Batch</u>	<u>Prep Batch</u>	<u>Qualifiers</u>
Gasoline Range Organics	ND	100	10.0	ug/L	1	VFC8010	VXX15887	
4-Bromofluorobenzene <sur>	90.2	50-150		%	1	VFC8010	VXX15887	

Batch Information

Analytical Batch: VFC8010
Analytical Method: AK101
Analysis Date/Time: 08/31/06 14:38
Dilution Factor: 1

Prep Batch: VXX15887
Prep Method: SW5030B
Prep Date/Time: 08/31/06 08:00

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID: 1064875012-C
Analyst: MCM



Bristol Environmental

Print Date: 9/20/2006

Client Sample ID: **06GAM05GSTB4**
SGS Ref. #: 1064875012
Project ID: 56016 Gambell FUDS Rem Action
Matrix: Water (Surface, Eff., Ground)

All Dates/Times are Alaska Local Time
Collection Date/Time: 08/17/06 00:00
Receipt Date/Time: 08/21/06 12:45
Location: Trip Blank

BTEX/Mass Spectroscopy

<u>Parameter</u>	<u>Result</u>	<u>PQL/CL</u>	<u>MDL</u>	<u>Units</u>	<u>DF</u>	<u>Analytical</u> <u>Batch</u>	<u>Prep</u> <u>Batch</u>	<u>Qualifiers</u>
Benzene	ND	0.400	0.120	ug/L	1	VMS8619	VXX15821	
Toluene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
Ethylbenzene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
P & M -Xylene	ND	2.00	0.620	ug/L	1	VMS8619	VXX15821	
o-Xylene	ND	1.00	0.310	ug/L	1	VMS8619	VXX15821	
4-Bromofluorobenzene <surr>	99.4	76-119		%	1	VMS8619	VXX15821	
Dibromofluoromethane <surr>	106	85-115		%	1	VMS8619	VXX15821	
1,2-Dichloroethane-D4 <surr>	107	72-119		%	1	VMS8619	VXX15821	
Toluene-d8 <surr>	101	85-120		%	1	VMS8619	VXX15821	

Batch Information

Analytical Batch: VMS8619
Analytical Method: SW8260B
Analysis Date/Time: 08/23/06 03:00
Dilution Factor: 1

Prep Batch: VXX15821
Prep Method: SW5030B
Prep Date/Time: 08/22/06 08:28

Initial Prep Wt./Vol.: 5 mL
Prep Extract Vol.: 5 mL
Container ID: 1064875012-A
Analyst: WAW

Section 3.1

Section Contents:

SGS Work Order: 1064875

Section : 3 SW8260B

Volatile Organic Compounds by GC/MS

Extraction Batch VXX15821

Analytical Batch: VMS8619

	<u>HSN</u>	<u>Client ID</u>
Batch Summary Page		
Tune, IS summary and CCAL		
Client Sample	1064875001	06GAM05GS17
Client Sample	1064875002	06GAM05GS18
Client Sample	1064875003	06GAM05GS19
Client Sample	1064875004	06GAM05GS21
Client Sample	1064875005	06GAM05GS22
Client Sample	1064875006	06GAM05GS23
Client Sample	1064875007	06GAM05GS24
Client Sample	1064875008	06GAM05GS25
Client Sample	1064875010	06GAM05GSTB4
Client Sample	1064875011	06GAM05GSTB4
Client Sample	1064875012	06GAM05GSTB4
Method Blank	721848	
Laboratory Control Sample	721849	
Laboratory Control Sample Duplicate	721850	
Instrument Blank	721851	
Instrument Blank	722097	
Calibration Check Sample	721852	
Calibration Check Sample	722098	
Horizon Run Log		
Instrument Run Log		
Extraction Log		

* Reanalysis

SGS Environmental, Inc.

Analytical Quality Control Summary Data

Work Order(s):
1064875

Queue: VMS Batch: 8619

Method: SW8260B

Run Date: 08/22/06 12:00 - 08/23/06 07:26

Extraction Batch(es): VXX15821

QC Parameter	Goals Met?		
Calibration:	(Y)	N	N/A
Instrument/Method Blank:	(Y)	N	N/A
Initial/Continuing Calibration Verifications:	(Y)	N	N/A
Laboratory Control Sample:	(Y)	N	N/A
Laboratory Control Sample Duplicate:	(Y)	N	N/A
Relative Percent Difference:	(Y)	N	N/A
Sample Duplicate:	Y	N	(N/A)
Matrix Spike:	Y	N	(N/A)
Matrix Spike Duplicate:	Y	N	(N/A)
Relative Percent Difference:	Y	N	(N/A)
Surrogates:	(Y)	N	N/A
Sample Holding Time:	(Y)	N	N/A
Internal Standards	(Y)	N	N/A
GCMS Tuner/DDT Sample	(Y)	N	N/A

See case narrative/sample comments for further information: /

Additional Notes:

Is there any further action necessary for any out of control events described above? Y (N)

Should a Corrective Action be initiated? Y (N)

I certify that except as specifically noted in this report, all statements and data appearing in this report are in conformance with the provisions of the Quality Assurance Plan (QAP) prepared by this firm and on file with the Alaska Department of Environmental Conservation.

Analyst's Signature: [Signature]

Reviewer's Signature: [Signature]

Date: 8/24/06

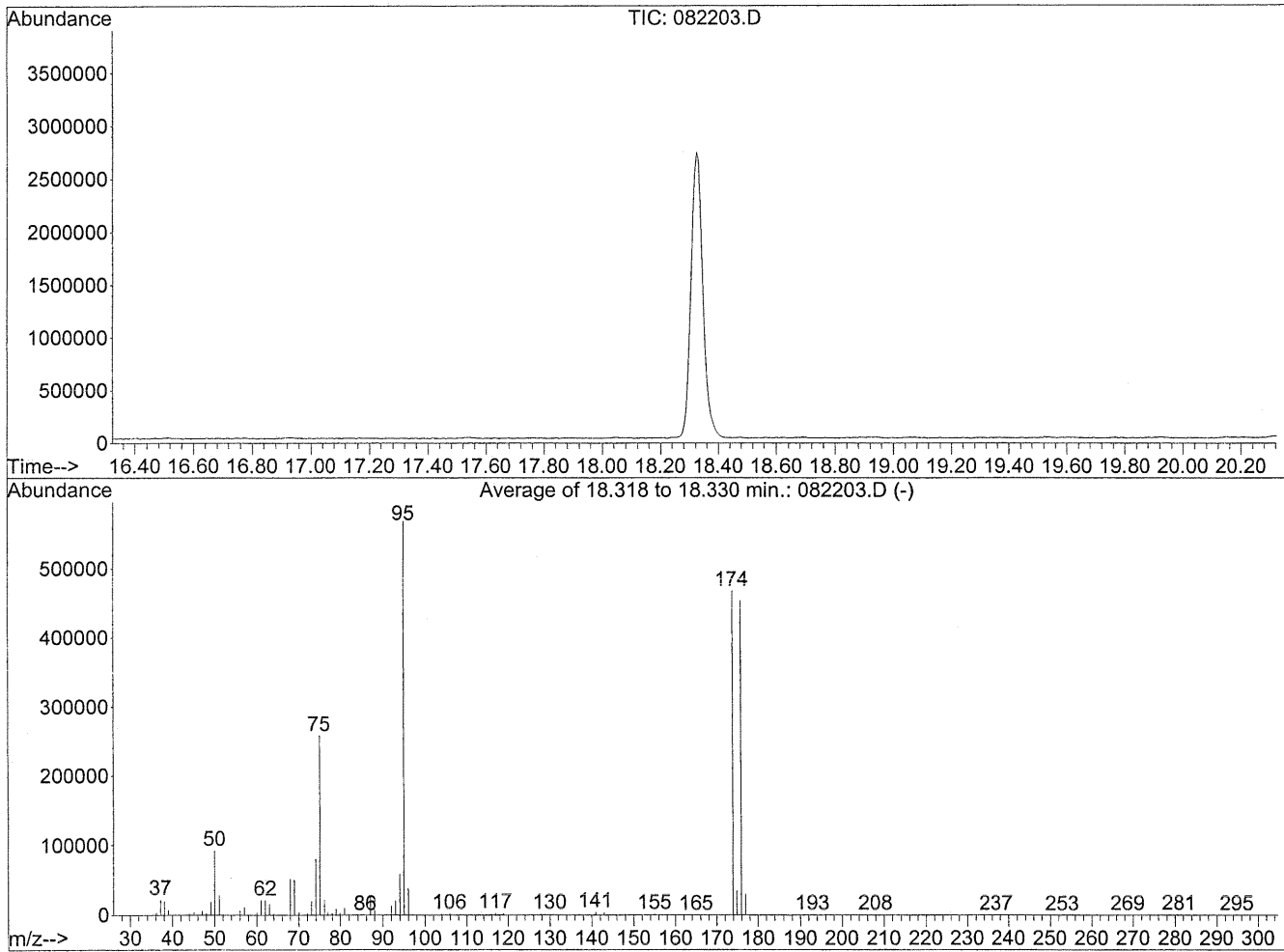
Date: 8-24-06

[Signature]
8-24-06

Data Path : \\Akangcarchive\public\Public\2006\08\VJA\Data\082206\
 Data File : 082203.D
 Acq On : 22 Aug 2006 12:00
 Operator : WAW
 Sample : IB
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 3 Sample Multiplier: 1

Integration File: rteint.p

Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Title : SGS Method 8260/524
 Last Update : Mon Aug 21 08:53:42 2006



AutoFind: Scans 2525, 2526, 2527; Background Corrected with Scan 2512

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.3	92771	PASS
75	95	30	60	45.4	258306	PASS
95	95	100	100	100.0	568512	PASS
96	95	5	9	6.9	39054	PASS
173	174	0.00	2	0.2	868	PASS
174	95	50	100	82.3	468138	PASS
175	174	5	9	7.4	34762	PASS
176	174	95	101	97.1	454528	PASS
177	176	5	9	6.7	30464	PASS

GC/MS QA-QC Check Report

Tune File : \\AKANGCARCHIVE\PUBLIC\PUBLIC\2006\08\VJA\DATA\082206\082203.D
 Tune Time : 22 Aug 2006 12:00

Daily Calibration File : E:\PUBLIC\2006\08\VJA\DATA\082006\2010A.D

File	Sample	Surrogate Recovery %				Internal Standard Responses
					705715 1225910 1328850	
082203.D	IB	105	105	101	99	886546 1513739 1582755
082204.D	CCV	104	106	99	94	890190 1548586 1787317
082205.D	LCS	104	104	100	95	910130 1567239 1784549
082206.D	LCSD	104	104	101	95	908556 1564273 1792618
082209.D	MB	104	105	101	100	878975 1491383 1553471
082210.D	1064123008	104	105	101	99	894684 1508740 1584325
082211.D	1064123008	106	107	101	96	867593 1507444 1672165
082212.D	1064123009	105	106	101	99	869535 1498124 1561554
082213.D	1064123009	105	106	100	99	866607 1498856 1581176
082214.D	1064123010	105	106	101	99	867487 1480935 1550937
082215.D	1064123010	106	108	100	99	844347 1471716 1559150
082216.D	1064123011	106	107	101	100	857457 1473416 1522035
082217.D	1064123011	106	108	101	99	855751 1458238 1520415
082218.D	1064123-8,	107	107	101	99	858027 1470601 1545670
082219.D	1064123-8,	105	106	100	97	871144 1503460 1680917

check sample
check sample

(fails) - fails 12hr time check * - fails criteria

Created: Thu Aug 24 10:10:07 2006 Instrumen

Evaluate Continuing Calibration Report

Data Path : \\AKANGCARCHIVE\PUBLIC\PUBLIC\2006\08\VJA\DATA\082206\
 Data File : 082204.D
 Acq On : 22 Aug 2006 12:35
 Operator : WAW
 Sample : CCV
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 22 13:02:27 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 08:53:42 2006
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene IS	30.000	30.000	0.0	126	0.00
2 M	dichlorodifluoromethane	30.000	27.122	9.6	113	0.00
3 PM	chloromethane	30.000	26.634	11.2	115	0.00
4 CM	vinyl chloride	30.000	26.710	11.0	116	-0.01
5 M	bromomethane	30.000	27.672	7.8	123	-0.01
6 M	chloroethane	30.000	29.011	3.3	125	-0.01
7 M	trichlorofluoromethane	30.000	27.643	7.9	115	0.00
8 CM	1,1-dichloroethene	30.000	27.565	8.1	117	0.00
9 M	1,1,2-trichloro-1,2,2-fluor	45.000	41.308	8.2	114	0.00
10 M	Acetone	90.000	117.977	-31.1#	162	0.00
11 M	Iodomethane	45.000	50.323	-11.8	123	0.00
12 M	Carbon disulfide	45.000	41.471	7.8	117	0.00
13 M	methylene chloride	30.000	30.523	-1.7	129	0.00
14 M	trans-1,2-dichloroethene	30.000	27.536	8.2	116	0.00
15 M	Acrylonitrile	45.000	51.699	-14.9	143	0.00
16 M	Methyl-t-butyl ether	45.000	49.351	-9.7	137	0.00
17 M	Vinyl Acetate	30.000	0.000	100.0#	0	-0.03
18 PM	1,1-dichloroethane	30.000	29.938	0.2	125	0.00
19 M	2-Butanone	90.000	115.710	-28.6	157	0.00
20 M	2,2-dichloropropane	30.000	28.591	4.7	121	0.00
21 M	cis-1,2-dichloroethene	30.000	29.856	0.5	127	0.00
22 M	bromochloromethane	30.000	31.189	-4.0	131	0.00
23 CM	chloroform	30.000	30.264	-0.9	128	0.00
24 M	1,1,1-trichloroethane	30.000	28.706	4.3	119	0.00
25 S	Dibromofluoromethane <surr>	30.000	31.114	-3.7	132	0.00
26 M	carbon tetrachloride	30.000	28.444	5.2	117	0.00
27 M	1,1-dichloropropene	30.000	27.431	8.6	114	0.00
28 S	1,2-Dichloroethane-D4 <surr>	30.000	31.696	-5.7	134	0.00
29 M	benzene	30.000	29.417	1.9	124	0.00
30 M	1,2-dichloroethane	30.000	31.427	-4.8	132	0.00
31 M	trichloroethene	30.000	28.388	5.4	121	0.00
32 CM	1,2-dichloropropane	30.000	29.832	0.6	126	0.00
33 M	dibromomethane	30.000	32.132	-7.1	136	0.00
34	2-chloroethylvinyl ether	45.000	45.310	-0.7	124	0.00
35 M	bromodichloromethane	30.000	30.883	-2.9	130	0.00
36 M	cis-1,3-dichloropropene	30.000	29.986	0.0	126	0.00
37 M	4-Methyl-2-pentanone	90.000	109.682	-21.9	149	0.00
38 I	1-chloro-3-fluorobenzene<IS	30.000	30.000	0.0	126	0.00
39 S	toluene-d8 <surr>	30.000	29.835	0.5	127	0.00
40 CM	toluene	30.000	29.082	3.1	122	0.00
41 M	trans-1,3-dichloropropene	30.000	30.851	-2.8	129	0.00
42 M	1,1,2-trichloroethane	30.000	32.323	-7.7	136	0.00
43 M	tetrachloroethene	30.000	28.097	6.3	118	0.00
44 M	1,3-dichloropropane	30.000	31.931	-6.4	135	0.00
45 M	2-Hexanone	90.000	108.352	-20.4	148	0.00
46 M	dibromochloromethane	30.000	32.535	-8.4	136	0.00
47 M	1,2-dibromoethane	30.000	31.836	-6.1	136	0.00
48 M	1-chlorohexane	45.000	41.027	8.8	114	0.00
49 PM	chlorobenzene	30.000	29.357	2.1	126	0.00

Evaluate Continuing Calibration Report

Data Path : \\AKANGCARCHIVE\PUBLIC\PUBLIC\2006\08\VJA\DATA\082206\
 Data File : 082204.D
 Acq On : 22 Aug 2006 12:35
 Operator : WAW
 Sample : CCV
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 22 13:02:27 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 08:53:42 2006
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev (min)
50 M	1,1,1,2-tetrachloroethane	30.000	30.972	-3.2	129	0.00
51 CM	ethylbenzene	30.000	28.369	5.4	121	0.00
52 M	P & M -Xylene	60.000	57.464	4.2	122	0.00
53 M	o-xylene	30.000	29.670	1.1	125	0.00
54 M	styrene	30.000	30.320	-1.1	126	0.00
55 PM	bromoform	30.000	34.019	-13.4	141	0.00
56 M	Isopropylbenzene (Cumene)	30.000	27.533	8.2	120	0.00
57 I	1,2-dichlorobenzene-d4 <IS>	30.000	30.000	0.0	135	0.00
58 S	4-Bromofluorobenzene <Surr>	30.000	28.257	5.8	128	0.00
59 M	bromobenzene	30.000	28.329	5.6	128	0.00
60 PM	1,1,2,2-tetrachloroethane	30.000	31.007	-3.4	146	0.00
61 M	1,2,3-Trichloropropane	30.000	32.153	-7.2	146	0.00
62 M	trans-1,4-Dichloro-2-butene	45.000	43.110	4.2	135	0.00
63 M	n-propylbenzene	30.000	26.314	12.3	119	0.00
64 M	2-chlorotoluene	30.000	27.305	9.0	124	0.00
65 M	4-chlorotoluene	30.000	27.430	8.6	124	0.00
66 M	1,3,5-trimethylbenzene	30.000	27.223	9.3	121	0.00
67 M	tert-butylbenzene	30.000	25.295	15.7	119	0.00
68 M	1,2,4-trimethylbenzene	30.000	27.889	7.0	122	0.00
69 M	sec-butylbenzene	30.000	25.026	16.6	116	0.00
70 M	1,3-dichlorobenzene	30.000	27.726	7.6	126	0.00
71 M	4-isopropyltoluene	30.000	26.553	11.5	117	0.00
72 M	1,4-dichlorobenzene	30.000	27.109	9.6	126	0.00
73 M	1,2-dichlorobenzene	30.000	28.810	4.0	129	0.00
74 M	n-butylbenzene	30.000	26.260	12.5	117	0.00
75 M	1,2-dibromo-3-chloropropane	30.000	31.221	-4.1	154	0.00
76 M	1,2,4-trichlorobenzene	30.000	26.846	10.5	123	0.00
77 M	hexachlorobutadiene	30.000	23.154	22.8	113	-0.02
78 M	naphthalene	30.000	29.804	0.7	138	0.00
79 M	1,2,3-trichlorobenzene	30.000	26.855	10.5	123	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : \\AKANGCARCHIVE\PUBLIC\PUBLIC\2006\08\VJA\DATA\082206\
 Data File : 082204.D
 Acq On : 22 Aug 2006 12:35
 Operator : WAW
 Sample : CCV
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 22 13:02:27 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 08:53:42 2006
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I Fluorobenzene IS	1.000	1.000	0.0	126	0.00
2 M dichlorodifluoromethane	1.105	0.999	9.6	113	0.00
3 PM chloromethane	0.921	0.818	11.2	115	0.00
4 CM vinyl chloride	0.760	0.677	10.9	116	-0.01
5 M bromomethane	0.577	0.532	7.8	123	-0.01
6 M chloroethane	0.397	0.384	3.3	125	-0.01
7 M trichlorofluoromethane	1.273	1.173	7.9	115	0.00
8 CM 1,1-dichloroethene	1.133	1.041	8.1	117	0.00
9 M 1,1,2-trichloro-1,2,2-fluor	1.149	1.054	8.3	114	0.00
10 M Acetone	0.141	0.185	-31.2#	162	0.00
11 M Iodomethane	1.467	1.641	-11.9	123	0.00
12 M Carbon disulfide	3.407	3.140	7.8	117	0.00
13 M methylene chloride	1.448	1.474	-1.8	129	0.00
14 M trans-1,2-dichloroethene	1.134	1.041	8.2	116	0.00
15 M Acrylonitrile	0.434	0.499	-15.0	143	0.00
16 M Methyl-t-butyl ether	3.471	3.807	-9.7	137	0.00
17 M Vinyl Acetate	0.000	0.003	0.0	0#	-0.03
18 PM 1,1-dichloroethane	2.503	2.498	0.2	125	0.00
19 M 2-Butanone	0.134	0.172	-28.4	157	0.00
20 M 2,2-dichloropropane	1.901	1.812	4.7	121	0.00
21 M cis-1,2-dichloroethene	1.498	1.491	0.5	127	0.00
22 M bromochloromethane	0.745	0.775	-4.0	131	0.00
23 CM chloroform	2.512	2.534	-0.9	128	0.00
24 M 1,1,1-trichloroethane	2.031	1.943	4.3	119	0.00
25 S Dibromofluoromethane <surr>	1.333	1.383	-3.8	132	0.00
26 M carbon tetrachloride	1.750	1.659	5.2	117	0.00
27 M 1,1-dichloropropene	1.823	1.667	8.6	114	0.00
28 S 1,2-Dichloroethane-D4 <surr>	1.377	1.455	-5.7	134	0.00
29 M benzene	5.566	5.457	2.0	124	0.00
30 M 1,2-dichloroethane	1.802	1.888	-4.8	132	0.00
31 M trichloroethene	1.452	1.374	5.4	121	0.00
32 CM 1,2-dichloropropane	1.458	1.449	0.6	126	0.00
33 M dibromomethane	0.842	0.902	-7.1	136	0.00
34 2-chloroethylvinyl ether	0.737	0.742	-0.7	124	0.00
35 M bromodichloromethane	1.900	1.956	-2.9	130	0.00
36 M cis-1,3-dichloropropene	2.214	2.212	0.1	126	0.00
37 M 4-Methyl-2-pentanone	0.378	0.461	-22.0	149	0.00
38 I 1-chloro-3-fluorobenzene<IS	1.000	1.000	0.0	126	0.00
39 S toluene-d8 <surr>	2.830	2.814	0.6	127	0.00
40 CM toluene	2.059	1.996	3.1	122	0.00
41 M trans-1,3-dichloropropene	1.102	1.134	-2.9	129	0.00
42 M 1,1,2-trichloroethane	0.585	0.631	-7.9	136	0.00
43 M tetrachloroethene	0.864	0.809	6.4	118	0.00
44 M 1,3-dichloropropane	1.181	1.258	-6.5	135	0.00
45 M 2-Hexanone	0.369	0.444	-20.3	148	0.00
46 M dibromochloromethane	0.835	0.906	-8.5	136	0.00
47 M 1,2-dibromoethane	0.683	0.725	-6.1	136	0.00
48 M 1-chlorohexane	0.697	0.636	8.8	114	0.00
49 PM chlorobenzene	2.333	2.283	2.1	126	0.00

Evaluate Continuing Calibration Report

Data Path : \\AKANGCARCHIVE\PUBLIC\PUBLIC\2006\08\VJA\DATA\082206\
 Data File : 082204.D
 Acq On : 22 Aug 2006 12:35
 Operator : WAW
 Sample : CCV
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 22 13:02:27 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 08:53:42 2006
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
50 M	1,1,1,2-tetrachloroethane	0.812	0.839	-3.3	129	0.00
51 CM	ethylbenzene	3.798	3.592	5.4	121	0.00
52 M	P & M -Xylene	1.510	1.446	4.2	122	0.00
53 M	o-xylene	1.490	1.474	1.1	125	0.00
54 M	styrene	2.417	2.443	-1.1	126	0.00
55 PM	bromoform	0.509	0.577	-13.4	141	0.00
56 M	Isopropylbenzene (Cumene)	3.732	3.425	8.2	120	0.00
57 I	1,2-dichlorobenzene-d4 <IS>	1.000	1.000	0.0	135	0.00
58 S	4-Bromofluorobenzene <Surr>	1.059	0.997	5.9	128	0.00
59 M	bromobenzene	0.906	0.856	5.5	128	0.00
60 PM	1,1,2,2-tetrachloroethane	0.751	0.777	-3.5	146	0.00
61 M	1,2,3-Trichloropropane	0.219	0.235	-7.3	146	0.00
62 M	trans-1,4-Dichloro-2-butene	0.156	0.150	3.8	135	0.00
63 M	n-propylbenzene	3.909	3.428	12.3	119	0.00
64 M	2-chlorotoluene	2.719	2.474	9.0	124	0.00
65 M	4-chlorotoluene	2.485	2.272	8.6	124	0.00
66 M	1,3,5-trimethylbenzene	2.787	2.529	9.3	121	0.00
67 M	tert-butylbenzene	2.510	2.117	15.7	119	0.00
68 M	1,2,4-trimethylbenzene	2.728	2.536	7.0	122	0.00
69 M	sec-butylbenzene	3.348	2.793	16.6	116	0.00
70 M	1,3-dichlorobenzene	1.652	1.526	7.6	126	0.00
71 M	4-isopropyltoluene	2.887	2.556	11.5	117	0.00
72 M	1,4-dichlorobenzene	1.673	1.512	9.6	126	0.00
73 M	1,2-dichlorobenzene	1.560	1.499	3.9	129	0.00
74 M	n-butylbenzene	2.446	2.141	12.5	117	0.00
75 M	1,2-dibromo-3-chloropropane	0.133	0.138	-3.8	154	0.00
76 M	1,2,4-trichlorobenzene	1.046	0.936	10.5	123	0.00
77 M	hexachlorobutadiene	0.491	0.379	22.8	113	-0.02
78 M	naphthalene	2.161	2.147	0.6	138	0.00
79 M	1,2,3-trichlorobenzene	1.046	0.936	10.5	123	0.00

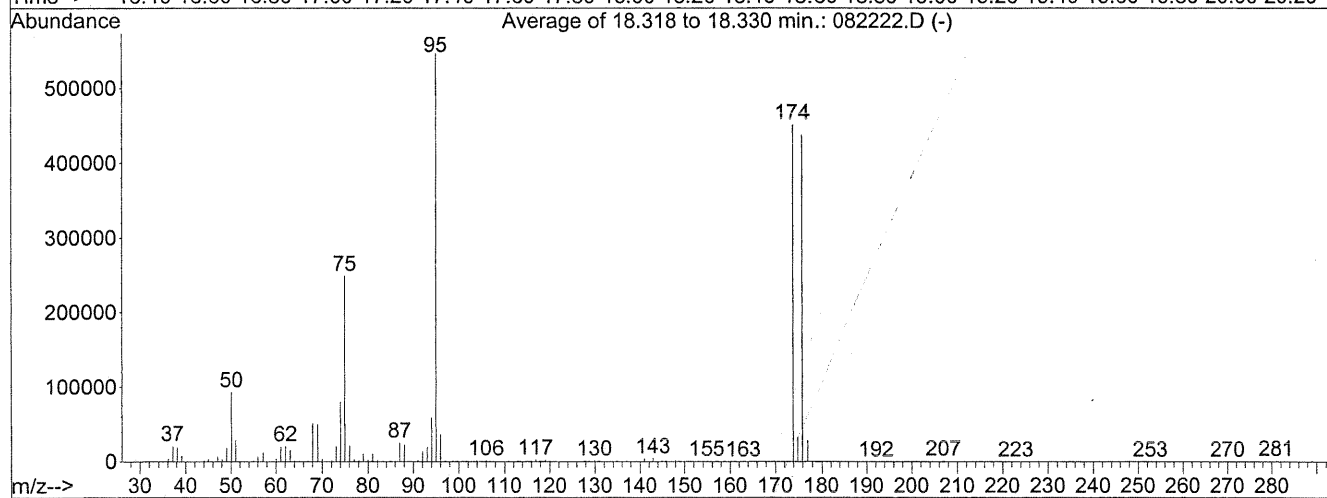
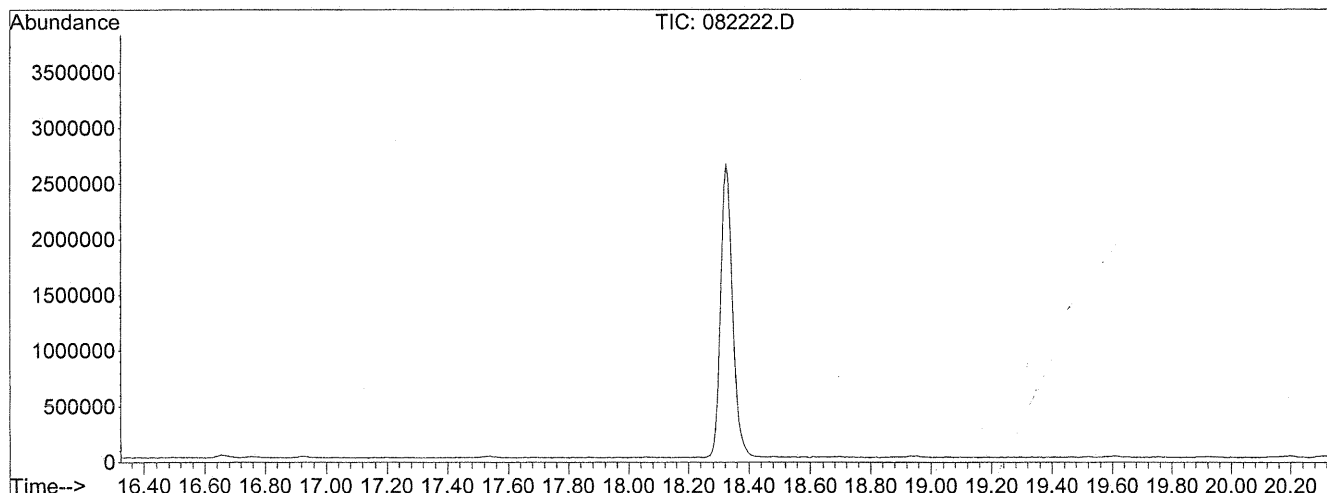
(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : \\AKANGCARCHIVE\PUBLIC\PUBLIC\2006\08\VJA\DATA\082206\
 Data File : 082222.D
 Acq On : 22 Aug 2006 23:23
 Operator : WAW
 Sample : IB
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 22 Sample Multiplier: 1

Integration File: rteint.p

Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Title : SGS Method 8260/524
 Last Update : Mon Aug 21 08:53:42 2006



AutoFind: Scans 2525, 2526, 2527; Background Corrected with Scan 2513

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result
50	95	15	40	17.1	93288	PASS
75	95	30	60	45.6	249369	PASS
95	95	100	100	100.0	546816	PASS
96	95	5	9	6.7	36582	PASS
173	174	0.00	2	0.2	876	PASS
174	95	50	100	82.5	451264	PASS
175	174	5	9	7.3	32722	PASS
176	174	95	101	97.1	438058	PASS
177	176	5	9	6.6	28768	PASS

GC/MS QA-QC Check Report

Tune File : \\AKANGCARCHIVE\PUBLIC\PUBLIC\2006\08\VJA\DATA\082206\082222.D

Tune Time : 22 Aug 2006 23:23

Daily Calibration File : E:\PUBLIC\2006\08\VJA\DATA\082006\2010A.D

705715 1225910 1328850

File	Sample	Surrogate Recovery %				Internal Standard Responses		
=====								
082222.D	IB	105	106	101	99	861456	1454848	1500453

082223.D	CCV	106	107	100	94	863057	1524143	1771468

082226.D	1064875010	105	107	101	99	846952	1441007	1504199

082227.D	1064875011	106	108	100	101	840723	1444123	1477467

082228.D	1064875012	106	107	101	99	842376	1432877	1481389

082229.D	1064875001	106	107	101	100	848114	1442330	1497527

082230.D	1064875002	108	109	100	101	826524	1437030	1476520

082231.D	1064875003	106	108	99	100	844406	1451994	1495361

082232.D	1064875004	107	109	100	101	848970	1451069	1474380

082233.D	1064875005	107	108	100	100	835912	1436142	1459359

082234.D	1064875006	107	109	99	101	834578	1438393	1453884

082235.D	1064875007	106	108	100	99	824370	1417619	1454894

082236.D	1064875008	106	109	101	100	829126	1423627	1462859

(fails) - fails 12hr time check * - fails criteria

Created: Thu Aug 24 10:11:26 2006 Instrumen

Evaluate Continuing Calibration Report

Data Path : \\AKANGCARCHIVE\PUBLIC\PUBLIC\2006\08\VJA\DATA\082206\
 Data File : 082223.D
 Acq On : 23 Aug 2006 00:13
 Operator : WAW
 Sample : CCV
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 23 00:40:52 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 08:53:42 2006
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene IS	1.000	1.000	0.0	122	0.00
2 M	dichlorodifluoromethane	1.105	1.262	-14.2	138	0.00
3 PM	chloromethane	0.921	0.951	-3.3	130	0.00
4 CM	vinyl chloride	0.760	0.842	-10.8	139	0.00
5 M	bromomethane	0.577	0.682	-18.2	153	0.00
6 M	chloroethane	0.397	0.454	-14.4	143	-0.01
7 M	trichlorofluoromethane	1.273	1.556	-22.2	148	0.00
8 CM	1,1-dichloroethene	1.133	1.192	-5.2	129	-0.01
9 M	1,1,2-trichloro-1,2,2-fluor	1.149	1.306	-13.7	137	0.00
10 M	Acetone	0.141	0.152	-7.8	129	0.00
11 M	Iodomethane	1.467	1.602	-9.2	117	0.00
12 M	Carbon disulfide	3.407	3.776	-10.8	137	0.00
13 M	methylene chloride	1.448	1.502	-3.7	128	-0.01
14 M	trans-1,2-dichloroethene	1.134	1.192	-5.1	129	-0.01
15 M	Acrylonitrile	0.434	0.471	-8.5	131	0.00
16 M	Methyl-t-butyl ether	3.471	3.737	-7.7	130	0.00
17 M	Vinyl Acetate	0.000	0.002	0.0	0#	-0.02
18 PM	1,1-dichloroethane	2.503	2.616	-4.5	127	0.00
19 M	2-Butanone	0.134	0.148	-10.4	131	0.00
20 M	2,2-dichloropropane	1.901	2.131	-12.1	137	0.00
21 M	cis-1,2-dichloroethene	1.498	1.563	-4.3	129	-0.01
22 M	bromochloromethane	0.745	0.795	-6.7	130	0.00
23 CM	chloroform	2.512	2.675	-6.5	131	0.00
24 M	1,1,1-trichloroethane	2.031	2.222	-9.4	132	0.00
25 S	Dibromofluoromethane <surr>	1.333	1.410	-5.8	130	0.00
26 M	carbon tetrachloride	1.750	1.951	-11.5	134	0.00
27 M	1,1-dichloropropene	1.823	1.917	-5.2	128	0.00
28 S	1,2-Dichloroethane-D4 <surr>	1.377	1.477	-7.3	131	0.00
29 M	benzene	5.566	5.723	-2.8	126	0.00
30 M	1,2-dichloroethane	1.802	1.952	-8.3	132	0.00
31 M	trichloroethene	1.452	1.478	-1.8	126	0.00
32 CM	1,2-dichloropropane	1.458	1.471	-0.9	124	-0.01
33 M	dibromomethane	0.842	0.908	-7.8	133	0.00
34	2-chloroethylvinyl ether	0.737	0.805	-9.2	130	0.00
35 M	bromodichloromethane	1.900	2.018	-6.2	130	0.00
36 M	cis-1,3-dichloropropene	2.214	2.304	-4.1	127	0.00
37 M	4-Methyl-2-pentanone	0.378	0.407	-7.7	127	0.00
38 I	1-chloro-3-fluorobenzene<IS	1.000	1.000	0.0	124	0.00
39 S	toluene-d8 <surr>	2.830	2.817	0.5	125	0.00
40 CM	toluene	2.059	2.074	-0.7	124	0.00
41 M	trans-1,3-dichloropropene	1.102	1.164	-5.6	131	0.00
42 M	1,1,2-trichloroethane	0.585	0.616	-5.3	131	0.00
43 M	tetrachloroethene	0.864	0.926	-7.2	133	0.00
44 M	1,3-dichloropropane	1.181	1.241	-5.1	131	0.00
45 M	2-Hexanone	0.369	0.389	-5.4	128	0.00
46 M	dibromochloromethane	0.835	0.903	-8.1	133	0.00
47 M	1,2-dibromoethane	0.683	0.728	-6.6	134	0.00
48 M	1-chlorohexane	0.697	0.740	-6.2	131	0.00
49 PM	chlorobenzene	2.333	2.349	-0.7	127	0.00

Evaluate Continuing Calibration Report

Data Path : \\AKANGCARCHIVE\PUBLIC\PUBLIC\2006\08\VJA\DATA\082206\
 Data File : 082223.D
 Acq On : 23 Aug 2006 00:13
 Operator : WAW
 Sample : CCV
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 23 00:40:52 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 08:53:42 2006
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50 M	1,1,1,2-tetrachloroethane	0.812	0.854	-5.2	130	0.00
51 CM	ethylbenzene	3.798	3.835	-1.0	128	0.00
52 M	P & M -Xylene	1.510	1.546	-2.4	129	0.00
53 M	o-xylene	1.490	1.533	-2.9	128	0.00
54 M	styrene	2.417	2.501	-3.5	127	0.00
55 PM	bromoform	0.509	0.564	-10.8	135	0.00
56 M	Isopropylbenzene (Cumene)	3.732	3.722	0.3	128	0.00
57 I	1,2-dichlorobenzene-d4 <IS>	1.000	1.000	0.0	133	0.00
58 S	4-Bromofluorobenzene <Surr>	1.059	0.994	6.1	126	0.00
59 M	bromobenzene	0.906	0.874	3.5	130	0.00
60 PM	1,1,2,2-tetrachloroethane	0.751	0.745	0.8	139	0.00
61 M	1,2,3-Trichloropropane	0.219	0.222	-1.4	137	0.00
62 M	trans-1,4-Dichloro-2-butene	0.156	0.157	-0.6	140	-0.01
63 M	n-propylbenzene	3.909	3.758	3.9	129	0.00
64 M	2-chlorotoluene	2.719	2.595	4.6	129	0.00
65 M	4-chlorotoluene	2.485	2.387	3.9	129	0.00
66 M	1,3,5-trimethylbenzene	2.787	2.724	2.3	129	0.00
67 M	tert-butylbenzene	2.510	2.349	6.4	131	0.00
68 M	1,2,4-trimethylbenzene	2.728	2.696	1.2	128	0.00
69 M	sec-butylbenzene	3.348	3.200	4.4	132	0.00
70 M	1,3-dichlorobenzene	1.652	1.620	1.9	133	0.00
71 M	4-isopropyltoluene	2.887	2.880	0.2	131	0.00
72 M	1,4-dichlorobenzene	1.673	1.597	4.5	132	0.00
73 M	1,2-dichlorobenzene	1.560	1.555	0.3	133	0.00
74 M	n-butylbenzene	2.446	2.507	-2.5	136	0.00
75 M	1,2-dibromo-3-chloropropane	0.133	0.127	4.5	141	0.00
76 M	1,2,4-trichlorobenzene	1.046	1.030	1.5	135	0.00
77 M	hexachlorobutadiene	0.491	0.483	1.6	142	-0.01
78 M	naphthalene	2.161	2.101	2.8	134	0.00
79 M	1,2,3-trichlorobenzene	1.046	1.031	1.4	135	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : \\AKANGCARCHIVE\PUBLIC\PUBLIC\2006\08\VJA\DATA\082206\
 Data File : 082223.D
 Acq On : 23 Aug 2006 00:13
 Operator : WAW
 Sample : CCV
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 23 00:40:52 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 08:53:42 2006
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene IS	30.000	30.000	0.0	122	0.00
2 M	dichlorodifluoromethane	30.000	34.260	-14.2	138	0.00
3 PM	chloromethane	30.000	30.954	-3.2	130	0.00
4 CM	vinyl chloride	30.000	33.220	-10.7	139	0.00
5 M	bromomethane	30.000	35.450	-18.2	153	0.00
6 M	chloroethane	30.000	34.325	-14.4	143	-0.01
7 M	trichlorofluoromethane	30.000	36.666	-22.2	148	0.00
8 CM	1,1-dichloroethene	30.000	31.558	-5.2	129	-0.01
9 M	1,1,2-trichloro-1,2,2-fluor	45.000	51.176	-13.7	137	0.00
10 M	Acetone	90.000	97.217	-8.0	129	0.00
11 M	Iodomethane	45.000	49.113	-9.1	117	0.00
12 M	Carbon disulfide	45.000	49.871	-10.8	137	0.00
13 M	methylene chloride	30.000	31.109	-3.7	128	-0.01
14 M	trans-1,2-dichloroethene	30.000	31.525	-5.1	129	-0.01
15 M	Acrylonitrile	45.000	48.832	-8.5	131	0.00
16 M	Methyl-t-butyl ether	45.000	48.447	-7.7	130	0.00
17 M	Vinyl Acetate	30.000	0.000	100.0#	0	-0.02
18 PM	1,1-dichloroethane	30.000	31.343	-4.5	127	0.00
19 M	2-Butanone	90.000	99.255	-10.3	131	0.00
20 M	2,2-dichloropropane	30.000	33.624	-12.1	137	0.00
21 M	cis-1,2-dichloroethene	30.000	31.308	-4.4	129	-0.01
22 M	bromochloromethane	30.000	32.023	-6.7	130	0.00
23 CM	chloroform	30.000	31.939	-6.5	131	0.00
24 M	1,1,1-trichloroethane	30.000	32.828	-9.4	132	0.00
25 S	Dibromofluoromethane <surr>	30.000	31.727	-5.8	130	0.00
26 M	carbon tetrachloride	30.000	33.450	-11.5	134	0.00
27 M	1,1-dichloropropene	30.000	31.539	-5.1	128	0.00
28 S	1,2-Dichloroethane-D4 <surr>	30.000	32.163	-7.2	131	0.00
29 M	benzene	30.000	30.848	-2.8	126	0.00
30 M	1,2-dichloroethane	30.000	32.496	-8.3	132	0.00
31 M	trichloroethene	30.000	30.533	-1.8	126	0.00
32 CM	1,2-dichloropropane	30.000	30.269	-0.9	124	-0.01
33 M	dibromomethane	30.000	32.332	-7.8	133	0.00
34	2-chloroethylvinyl ether	45.000	49.107	-9.1	130	0.00
35 M	bromodichloromethane	30.000	31.857	-6.2	130	0.00
36 M	cis-1,3-dichloropropene	30.000	31.222	-4.1	127	0.00
37 M	4-Methyl-2-pentanone	90.000	96.798	-7.6	127	0.00
38 I	1-chloro-3-fluorobenzene<IS	30.000	30.000	0.0	124	0.00
39 S	toluene-d8 <surr>	30.000	29.862	0.5	125	0.00
40 CM	toluene	30.000	30.209	-0.7	124	0.00
41 M	trans-1,3-dichloropropene	30.000	31.694	-5.6	131	0.00
42 M	1,1,2-trichloroethane	30.000	31.571	-5.2	131	0.00
43 M	tetrachloroethene	30.000	32.172	-7.2	133	0.00
44 M	1,3-dichloropropane	30.000	31.504	-5.0	131	0.00
45 M	2-Hexanone	90.000	94.831	-5.4	128	0.00
46 M	dibromochloromethane	30.000	32.452	-8.2	133	0.00
47 M	1,2-dibromoethane	30.000	31.961	-6.5	134	0.00
48 M	1-chlorohexane	45.000	47.796	-6.2	131	0.00
49 PM	chlorobenzene	30.000	30.205	-0.7	127	0.00

Evaluate Continuing Calibration Report

Data Path : \\AKANGCARCHIVE\PUBLIC\PUBLIC\2006\08\VJA\DATA\082206\
 Data File : 082223.D
 Acq On : 23 Aug 2006 00:13
 Operator : WAW
 Sample : CCV
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 23 00:40:52 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 08:53:42 2006
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
50 M	1,1,1,2-tetrachloroethane	30.000	31.533	-5.1	130	0.00
51 CM	ethylbenzene	30.000	30.294	-1.0	128	0.00
52 M	P & M -Xylene	60.000	61.438	-2.4	129	0.00
53 M	o-xylene	30.000	30.862	-2.9	128	0.00
54 M	styrene	30.000	31.037	-3.5	127	0.00
55 PM	bromoform	30.000	33.216	-10.7	135	0.00
56 M	Isopropylbenzene (Cumene)	30.000	29.914	0.3	128	0.00
57 I	1,2-dichlorobenzene-d4 <IS>	30.000	30.000	0.0	133	0.00
58 S	4-Bromofluorobenzene <Surr>	30.000	28.155	6.1	126	0.00
59 M	bromobenzene	30.000	28.946	3.5	130	0.00
60 PM	1,1,2,2-tetrachloroethane	30.000	29.731	0.9	139	0.00
61 M	1,2,3-Trichloropropane	30.000	30.405	-1.4	137	0.00
62 M	trans-1,4-Dichloro-2-butene	45.000	45.275	-0.6	140	-0.01
63 M	n-propylbenzene	30.000	28.844	3.9	129	0.00
64 M	2-chlorotoluene	30.000	28.637	4.5	129	0.00
65 M	4-chlorotoluene	30.000	28.820	3.9	129	0.00
66 M	1,3,5-trimethylbenzene	30.000	29.316	2.3	129	0.00
67 M	tert-butylbenzene	30.000	28.079	6.4	131	0.00
68 M	1,2,4-trimethylbenzene	30.000	29.644	1.2	128	0.00
69 M	sec-butylbenzene	30.000	28.670	4.4	132	0.00
70 M	1,3-dichlorobenzene	30.000	29.425	1.9	133	0.00
71 M	4-isopropyltoluene	30.000	29.917	0.3	131	0.00
72 M	1,4-dichlorobenzene	30.000	28.644	4.5	132	0.00
73 M	1,2-dichlorobenzene	30.000	29.890	0.4	133	0.00
74 M	n-butylbenzene	30.000	30.748	-2.5	136	0.00
75 M	1,2-dibromo-3-chloropropane	30.000	28.738	4.2	141	0.00
76 M	1,2,4-trichlorobenzene	30.000	29.554	1.5	135	0.00
77 M	hexachlorobutadiene	30.000	29.476	1.7	142	-0.01
78 M	naphthalene	30.000	29.162	2.8	134	0.00
79 M	1,2,3-trichlorobenzene	30.000	29.576	1.4	135	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

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Project Name: 56016 Gambell FUDS		Analysis: Volatile Organic Compounds by GC/MS				
Project No: 05-013		Method: SW8260B				
		Prep Meth: SW5030B				
Field ID: 06GAM05GS17		Lab Samp ID: 1064875001				
Descr/Location: PWS		Rec'd Date: 08/21/2006				
Sample Date: 08/17/2006		Prep Date: 08/22/2006				
Sample Time: 1335		Analysis Date: 08/23/2006				
Matrix: Groundwater		QC Batch: VXX15821				
Basis: Not Filtered		Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Benzene	0.120	0.400 PQL		ND	UG/L	1
Ethylbenzene	0.310	1.00 PQL		ND	UG/L	1
Toluene	0.310	1.00 PQL		ND	UG/L	1
o-Xylene	0.310	1.00 PQL		ND	UG/L	1
Xylene, Isomers m & p	0.620	2.00 PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		76-119 SLSA		99.9%		1
Toluene-d8		85-120 SLSA		101%		1
Dibromofluoromethane		85-115 SLSA		106%		1
1,2-Dichloroethane-d4		72-119 SLSA		107%		1

Approved by: _____

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Project Name: 56016 Gambell FUDS		Analysis: Volatile Organic Compounds by GC/MS				
Project No: 05-013		Method: SW8260B				
		Prep Meth: SW5030B				
Field ID: 06GAM05GS18		Lab Samp ID: 1064875002				
Descr/Location: MW-31		Rec'd Date: 08/21/2006				
Sample Date: 08/16/2006		Prep Date: 08/22/2006				
Sample Time: 1900		Analysis Date: 08/23/2006				
Matrix: Groundwater		QC Batch: VXX15821				
Basis: Not Filtered		Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Benzene	0.120	0.400 PQL		ND	UG/L	1
Ethylbenzene	0.310	1.00 PQL		ND	UG/L	1
Toluene	0.310	1.00 PQL		ND	UG/L	1
o-Xylene	0.310	1.00 PQL		ND	UG/L	1
Xylene, Isomers m & p	0.620	2.00 PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		76-119 SLSA		101%		1
Toluene-d8		85-120 SLSA		100%		1
Dibromofluoromethane		85-115 SLSA		108%		1
1,2-Dichloroethane-d4		72-119 SLSA		109%		1

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Project Name: 56016 Gambell FUDS		Analysis: Volatile Organic Compounds by GC/MS				
Project No: 05-013		Method: SW8260B				
		Prep Meth: SW5030B				
Field ID: 06GAM05GS19	Lab Samp ID: 1064875003					
Descr/Location: MW-30	Rec'd Date: 08/21/2006					
Sample Date: 08/16/2006	Prep Date: 08/22/2006					
Sample Time: 1230	Analysis Date: 08/23/2006					
Matrix: Groundwater	QC Batch: VXX15821					
Basis: Not Filtered	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Benzene	0.120	0.400 PQL		ND	UG/L	1
Ethylbenzene	0.310	1.00 PQL		ND	UG/L	1
Toluene	0.310	1.00 PQL		ND	UG/L	1
o-Xylene	0.310	1.00 PQL		ND	UG/L	1
Xylene, Isomers m & p	0.620	2.00 PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		76-119 SLSA		99.5%		1
Toluene-d8		85-120 SLSA		99.3%		1
Dibromofluoromethane		85-115 SLSA		106%		1
1,2-Dichloroethane-d4		72-119 SLSA		108%		1

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Project Name: 56016 Gambell FUDS		Analysis: Volatile Organic Compounds by GC/MS				
Project No: 05-013		Method: SW8260B				
		Prep Meth: SW5030B				
Field ID: 06GAM05GS21		Lab Samp ID: 1064875004				
Descr/Location: MW-30		Rec'd Date: 08/21/2006				
Sample Date: 08/16/2006		Prep Date: 08/22/2006				
Sample Time: 1150		Analysis Date: 08/23/2006				
Matrix: Groundwater		QC Batch: VXX15821				
Basis: Not Filtered		Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Benzene	0.120	0.400 PQL		ND	UG/L	1
Ethylbenzene	0.310	1.00 PQL		ND	UG/L	1
Toluene	0.310	1.00 PQL		ND	UG/L	1
o-Xylene	0.310	1.00 PQL		ND	UG/L	1
Xylene, Isomers m & p	0.620	2.00 PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		76-119 SLSA		101%		1
Toluene-d8		85-120 SLSA		100%		1
Dibromofluoromethane		85-115 SLSA		107%		1
1,2-Dichloroethane-d4		72-119 SLSA		109%		1

Approved by: _____

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Project Name: 56016 Gambell FUDS		Analysis: Volatile Organic Compounds by GC/MS				
Project No: 05-013		Method: SW8260B				
		Prep Meth: SW5030B				
Field ID: 06GAM05GS22		Lab Samp ID: 1064875005				
Descr/Location: MW-14		Rec'd Date: 08/21/2006				
Sample Date: 08/16/2006		Prep Date: 08/22/2006				
Sample Time: 1445		Analysis Date: 08/23/2006				
Matrix: Groundwater		QC Batch: VXX15821				
Basis: Not Filtered		Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Benzene	0.120	0.400 PQL		ND	UG/L	1
Ethylbenzene	0.310	1.00 PQL		ND	UG/L	1
Toluene	0.310	1.00 PQL		ND	UG/L	1
o-Xylene	0.310	1.00 PQL		ND	UG/L	1
Xylene, Isomers m & p	0.620	2.00 PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		76-119 SLSA		100%		1
Toluene-d8		85-120 SLSA		99.9%		1
Dibromofluoromethane		85-115 SLSA		107%		1
1,2-Dichloroethane-d4		72-119 SLSA		108%		1

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Project Name: 56016 Gambell FUDS		Analysis: Volatile Organic Compounds by GC/MS				
Project No: 05-013		Method: SW8260B				
		Prep Meth: SW5030B				
Field ID:	06GAM05GS23	Lab Samp ID:	1064875006			
Descr/Location:	MW-15	Rec'd Date:	08/21/2006			
Sample Date:	08/16/2006	Prep Date:	08/22/2006			
Sample Time:	1550	Analysis Date:	08/23/2006			
Matrix:	Groundwater	QC Batch:	VXX15821			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Benzene	0.120	0.400 PQL		ND	UG/L	1
Ethylbenzene	0.310	1.00 PQL		ND	UG/L	1
Toluene	0.310	1.00 PQL		ND	UG/L	1
o-Xylene	0.310	1.00 PQL		ND	UG/L	1
Xylene, Isomers m & p	0.620	2.00 PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		76-119 SLSA		101%		1
Toluene-d8		85-120 SLSA		99.3%		1
Dibromofluoromethane		85-115 SLSA		107%		1
1,2-Dichloroethane-d4		72-119 SLSA		109%		1

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Project Name: 56016 Gambell FUDS		Analysis: Volatile Organic Compounds by GC/MS				
Project No: 05-013		Method: SW8260B				
		Prep Meth: SW5030B				
Field ID: 06GAM05GS24	Lab Samp ID: 1064875007					
Descr/Location: MW-32	Rec'd Date: 08/21/2006					
Sample Date: 08/16/2006	Prep Date: 08/22/2006					
Sample Time: 1700	Analysis Date: 08/23/2006					
Matrix: Groundwater	QC Batch: VXX15821					
Basis: Not Filtered	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Benzene	0.120	0.400 PQL		ND	UG/L	1
Ethylbenzene	0.310	1.00 PQL		ND	UG/L	1
Toluene	0.310	1.00 PQL		ND	UG/L	1
o-Xylene	0.310	1.00 PQL		ND	UG/L	1
Xylene, Isomers m & p	0.620	2.00 PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		76-119 SLSA		99.1%		1
Toluene-d8		85-120 SLSA		100%		1
Dibromofluoromethane		85-115 SLSA		106%		1
1,2-Dichloroethane-d4		72-119 SLSA		108%		1

Approved by: _____

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Project Name: 56016 Gambell FUDS		Analysis: Volatile Organic Compounds by GC/MS				
Project No: 05-013		Method: SW8260B				
		Prep Meth: SW5030B				
Field ID: 06GAM05GS25		Lab Samp ID: 1064875008				
Descr/Location: MW-29		Rec'd Date: 08/21/2006				
Sample Date: 08/16/2006		Prep Date: 08/22/2006				
Sample Time: 1830		Analysis Date: 08/23/2006				
Matrix: Groundwater		QC Batch: VXX15821				
Basis: Not Filtered		Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Benzene	0.120	0.400 PQL		ND	UG/L	1
Ethylbenzene	0.310	1.00 PQL		ND	UG/L	1
Toluene	0.310	1.00 PQL		ND	UG/L	1
o-Xylene	0.310	1.00 PQL		ND	UG/L	1
Xylene, Isomers m & p	0.620	2.00 PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		76-119 SLSA		99.9%		1
Toluene-d8		85-120 SLSA		101%		1
Dibromofluoromethane		85-115 SLSA		106%		1
1,2-Dichloroethane-d4		72-119 SLSA		109%		1

Approved by: _____

Date: _____

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Project Name: 56016 Gambell FUDS		Analysis: Volatile Organic Compounds by GC/MS				
Project No: 05-013		Method: SW8260B				
		Prep Meth: SW5030B				
Field ID: 06GAM05GSTB4-1		Lab Samp ID: 1064875010				
Descr/Location: Trip Blank		Rec'd Date: 08/21/2006				
Sample Date: 08/17/2006		Prep Date: 08/22/2006				
Sample Time: 0000		Analysis Date: 08/23/2006				
Matrix: Surface Water		QC Batch: VXX15821				
Basis: Not Filtered		Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Benzene	0.120	0.400 PQL		ND	UG/L	1
Ethylbenzene	0.310	1.00 PQL		ND	UG/L	1
Toluene	0.310	1.00 PQL		ND	UG/L	1
o-Xylene	0.310	1.00 PQL		ND	UG/L	1
Xylene, Isomers m & p	0.620	2.00 PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		76-119 SLSA		99.2%		1
Toluene-d8		85-120 SLSA		101%		1
Dibromofluoromethane		85-115 SLSA		105%		1
1,2-Dichloroethane-d4		72-119 SLSA		107%		1

Approved by: _____

Date: _____

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Project Name: 56016 Gambell FUDS		Analysis: Volatile Organic Compounds by GC/MS				
Project No: 05-013		Method: SW8260B				
		Prep Meth: SW5030B				
Field ID: 06GAM05GSTB4-2		Lab Samp ID: 1064875011				
Descr/Location: Trip Blank		Rec'd Date: 08/21/2006				
Sample Date: 08/17/2006		Prep Date: 08/22/2006				
Sample Time: 0000		Analysis Date: 08/23/2006				
Matrix: Surface Water		QC Batch: VXX15821				
Basis: Not Filtered		Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Benzene	0.120	0.400 PQL		ND	UG/L	1
Ethylbenzene	0.310	1.00 PQL		ND	UG/L	1
Toluene	0.310	1.00 PQL		ND	UG/L	1
o-Xylene	0.310	1.00 PQL		ND	UG/L	1
Xylene, Isomers m & p	0.620	2.00 PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		76-119 SLSA		101%		1
Toluene-d8		85-120 SLSA		100%		1
Dibromofluoromethane		85-115 SLSA		106%		1
1,2-Dichloroethane-d4		72-119 SLSA		108%		1

Approved by: _____

Date: _____

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Project Name: 56016 Gambell FUDS	Analysis: Volatile Organic Compounds by GC/MS
Project No: 05-013	Method: SW8260B
	Prep Meth: SW5030B

Field ID: 06GAM05GSTB4-3	Lab Samp ID: 1064875012
Descr/Location: Trip Blank	Rec'd Date: 08/21/2006
Sample Date: 08/17/2006	Prep Date: 08/22/2006
Sample Time: 0000	Analysis Date: 08/23/2006
Matrix: Surface Water	QC Batch: VXX15821
Basis: Not Filtered	Notes:

Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Benzene	0.120	0.400 PQL		ND	UG/L	1
Ethylbenzene	0.310	1.00 PQL		ND	UG/L	1
Toluene	0.310	1.00 PQL		ND	UG/L	1
o-Xylene	0.310	1.00 PQL		ND	UG/L	1
Xylene, Isomers m & p	0.620	2.00 PQL		ND	UG/L	1

SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		76-119	SLSA	99.4%		1
Toluene-d8		85-120	SLSA	101%		1
Dibromofluoromethane		85-115	SLSA	106%		1
1,2-Dichloroethane-d4		72-119	SLSA	107%		1

Approved by: _____

Date: _____

QA/QC Report Method Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 106

QC Batch: VXX15821				Analysis: Volatile Organic Compounds by GC/MS			
Matrix: Water QC				Method: SW8260B			
Lab Samp ID: 721848				Prep Meth: SW5030B			
Analysis Date: 08/22/2006				Prep Date: 08/22/2006			
Basis: Not Filtered				Notes:			
Analyte	Det Limit	Rep Limit	PQL	Note	Result	Units	Pvc Dil
Benzene	0.120	0.400	PQL		ND	UG/L	1
Ethylbenzene	0.310	1.00	PQL		ND	UG/L	1
Toluene	0.310	1.00	PQL		ND	UG/L	1
o-Xylene	0.310	1.00	PQL		ND	UG/L	1
Xylene, Isomers m & p	0.620	2.00	PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:							
4-Bromofluorobenzene		76-119	SLSA		100%		1
Toluene-d8		85-120	SLSA		101%		1
Dibromofluoromethane		85-115	SLSA		104%		1
1,2-Dichloroethane-d4		72-119	SLSA		105%		1

QA/QC Report Blank Spike/Duplicate Blank Spike Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: VXX15821 Matrix: Water QC Lab Samp ID: 721849		Analysis Method		Spike Level		Spike Result		Units		% Recoveries		Acceptance Criteria	
Analyte	Method	LCS	LCD	LCS	LCD	LCS	LCD	UG/L	PERCENT	LCS	LCD	%Rec	RPD
Benzene	SW8260B	30.	30.	29.6	30.0	29.6	30.0	UG/L	PERCENT	98.7	100	115-84	20MEP
Ethylbenzene	SW8260B	30.	30.	29.0	29.1	29.0	29.1	UG/L	PERCENT	96.7	97.0	120-85	20MEP
Toluene	SW8260B	30.	30.	29.6	30.3	29.6	30.3	UG/L	PERCENT	98.7	101	115-81	20MEP
Xylene, Isomers m & p	SW8260B	60.	60.	58.6	59.1	58.6	59.1	UG/L	PERCENT	97.7	98.5	120-80	20MEP
o-Xylene	SW8260B	30.	30.	29.4	30.4	29.4	30.4	UG/L	PERCENT	98.0	101	120-80	20MEP
1,2-Dichloroethane-d4	SW8260B	100.	100.	104.	104.	104.	104.	PERCENT	PERCENT	104	104	119-72	SLSA
4-Bromofluorobenzene	SW8260B	100.	100.	95.2	94.8	95.2	94.8	PERCENT	PERCENT	95.2	94.8	119-76	SLSA
Dibromofluoromethane	SW8260B	100.	100.	104.	104.	104.	104.	PERCENT	PERCENT	104	104	115-85	SLSA
Toluene-d8	SW8260B	100.	100.	100.	101.	100.	101.	PERCENT	PERCENT	100	101	120-85	SLSA

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: VXX15821 Matrix: Water QC Lab Samp ID: 721851 Analysis Date: 08/22/2006 Basis: Not Applicable	Analysis: Volatile Organic Compounds by GC/MS Method: SW8260B Prep Meth: NONE Prep Date: 08/22/2006 Notes:
---	--

Analyte	Det Limit	Rep Limit	PQL	Note	Result	Units	Pvc Dil
Benzene	0.120	0.400	PQL		ND	UG/L	1
Ethylbenzene	0.310	1.00	PQL		ND	UG/L	1
Toluene	0.310	1.00	PQL		ND	UG/L	1
o-Xylene	0.310	1.00	PQL		ND	UG/L	1
Xylene, Isomers m & p	0.620	2.00	PQL		ND	UG/L	1

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 108

QC Batch: VXX15821 Matrix: Water QC Lab Samp ID: 722097 Analysis Date: 08/22/2006 Basis: Not Applicable	Analysis: Volatile Organic Compounds by GC/MS Method: SW8260B Prep Meth: NONE Prep Date: 08/22/2006 Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Benzene	0.120	0.400	PQL	ND	UG/L	1
Ethylbenzene	0.310	1.00	PQL	ND	UG/L	1
Toluene	0.310	1.00	PQL	ND	UG/L	1
o-Xylene	0.310	1.00	PQL	ND	UG/L	1
Xylene, Isomers m & p	0.620	2.00	PQL	ND	UG/L	1

QA/QC Report

Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: VXX15821 Matrix: Water QC Lab Samp ID: 721852							
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria	
Benzene	SW8260B	30.	29.4	UG/L	98.0	120-80	MECC
Ethylbenzene	SW8260B	30.	28.4	UG/L	94.7	120-80	MECC
Toluene	SW8260B	30.	29.1	UG/L	97.0	120-80	MECC
Xylene, Isomers m & p	SW8260B	60.	57.5	UG/L	95.8	120-80	MECC
o-Xylene	SW8260B	30.	29.7	UG/L	99.0	120-80	MECC
1,2-Dichloroethane-d4	SW8260B	100.	106.	PERCE	106	120-80	SMEA
4-Bromofluorobenzene	SW8260B	100.	94.2	PERCE	94.2	120-80	SMEA
Dibromofluoromethane	SW8260B	100.	104.	PERCE	104	120-80	SMEA
Toluene-d8	SW8260B	100.	99.5	PERCE	99.5	120-80	SMEA

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: VXX15821 Matrix: Water QC Lab Samp ID: 722098						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Benzene	SW8260B	30.	30.9	UG/L	103	120-80 MECC
Ethylbenzene	SW8260B	30.	30.3	UG/L	101	120-80 MECC
Toluene	SW8260B	30.	30.2	UG/L	101	120-80 MECC
Xylene, Isomers m & p	SW8260B	60.	61.4	UG/L	102	120-80 MECC
o-Xylene	SW8260B	30.	30.9	UG/L	103	120-80 MECC
1,2-Dichloroethane-d4	SW8260B	100.	107.	PERCE	107	120-80 SMEA
4-Bromofluorobenzene	SW8260B	100.	93.9	PERCE	93.9	120-80 SMEA
Dibromofluoromethane	SW8260B	100.	106.	PERCE	106	120-80 SMEA
Toluene-d8	SW8260B	100.	99.5	PERCE	99.5	120-80 SMEA

SGS Alaska Division Peer Review Report - Horizon Run Log

Queue: VMS Batch: 8619 Create User: WAW Run Date: 08/22/06 Printed: 23-Aug-06

Project	HSN	Type	Sample ID	CC	Bottle Number	Matrix	Inst	Run Date/Time	Bench Dilution	Prep Batch	Seq
	721851	IB		OK		1	VJA	08/22/06 12:00	1		1
	721852	CCV		OK		1	VJA	08/22/06 12:35	1		2
	721849	LCS		OK		1	VJA	08/22/06 13:09	1	15821VXX	3
	721850	LCSD		OK		1	VJA	08/22/06 13:43	1	15821VXX	4
	721848	MB		OK		1	VJA	08/22/06 15:26	1	15821VXX	5
	722097	IB		OK		1	VJA	08/22/06 23:23	1		6
	722098	CCV		OK		1	VJA	08/23/06 00:13	1		7
1064875	1064875010	TB	06GAM05GSTB4	OK	1064875010-A	1 ✓	VJA	08/23/06 01:53 ✓	1	15821VXX	8
1064875	1064875011	TB	06GAM05GSTB4	OK	1064875011-A	1 ✓	VJA	08/23/06 02:26	1	15821VXX	9
1064875	1064875012	TB	06GAM05GSTB4	OK	1064875012-A	1 ✓	VJA	08/23/06 03:00	1	15821VXX	10
1064875	1064875001	PS	06GAM05GS17	OK	1064875001-D	1 ✓	VJA	08/23/06 03:33	1	15821VXX	11
1064875	1064875002	PS	06GAM05GS18	OK	1064875002-D	1	VJA	08/23/06 04:07	1	15821VXX	12
1064875	1064875003	PS	06GAM05GS19	OK	1064875003-D	1	VJA	08/23/06 04:40	1	15821VXX	13
1064875	1064875004	PS	06GAM05GS21	OK	1064875004-D	1	VJA	08/23/06 05:13	1	15821VXX	14
1064875	1064875005	PS	06GAM05GS22	OK	1064875005-D	1	VJA	08/23/06 05:46	1	15821VXX	15
1064875	1064875006	PS	06GAM05GS23	OK	1064875006-D	1	VJA	08/23/06 06:20	1	15821VXX	16
1064875	1064875007	PS	06GAM05GS24	OK	1064875007-D	1	VJA	08/23/06 06:53	1	15821VXX	17
1064875	1064875008	PS	06GAM05GS25	OK	1064875008-D	1 ✓	VJA	08/23/06 07:26 ✓	1	15821VXX	18

Injection Log

Directory: d:\public\2006\08\lva\data\082206

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	082201.d	1.	R	[VJA] INIT TEMP 40	22 Aug 06 10:52
2	2	082202.d	1.	R	[VJA] INIT TEMP 40	22 Aug 06 11:26
3	3	082203.d	1.	IB	[VJA] INIT TEMP 40	22 Aug 06 12:00
4	4	082204.d	1.	CCV	[VJA] INIT TEMP 40	22 Aug 06 12:35
5	5	082205.d	1.	LCS	[VJA] INIT TEMP 40	22 Aug 06 13:09
6	6	082206.d	1.	LCSD	[VJA] INIT TEMP 40	22 Aug 06 13:43
7	7	082207.d	1.	R	[VJA] INIT TEMP 40	22 Aug 06 14:18
8	8	082208.d	1.	R	[VJA] INIT TEMP 40	22 Aug 06 14:52
9	9	082209.d	1.	MB	[VJA] INIT TEMP 40	22 Aug 06 15:26
10	10	082210.d	10.	1064123008(X10	[VJA] INIT TEMP 40	22 Aug 06 16:38
11	11	082211.d	1.	1064123008	[VJA] INIT TEMP 40	22 Aug 06 17:12
12	12	082212.d	10.	1064123009(X10	[VJA] INIT TEMP 40	22 Aug 06 17:46
13	13	082213.d	1.	1064123009	[VJA] INIT TEMP 40	22 Aug 06 18:20
14	14	082214.d	10.	1064123010(X10	[VJA] INIT TEMP 40	22 Aug 06 18:53
15	15	082215.d	1.	1064123010	[VJA] INIT TEMP 40	22 Aug 06 19:27
16	16	082216.d	10.	1064123011(X10	[VJA] INIT TEMP 40	22 Aug 06 20:01
17	17	082217.d	1.	1064123011	[VJA] INIT TEMP 40	22 Aug 06 20:35
18	18	082218.d	10.	1064123-8,9,10,11(X10	[VJA] INIT TEMP 40	22 Aug 06 21:08
19	19	082219.d	1.	1064123-8,9,10,11	[VJA] INIT TEMP 40	22 Aug 06 21:41
20	20	082220.d	1.	R	[VJA] INIT TEMP 40	22 Aug 06 22:15
21	21	082221.d	1.	R	[VJA] INIT TEMP 40	22 Aug 06 22:49
22	22	082222.d	1.	IB	[VJA] INIT TEMP 40	22 Aug 06 23:23
23	23	082223.d	1.	CCV	[VJA] INIT TEMP 40	23 Aug 06 00:13
24	24	082224.d	1.	R	[VJA] INIT TEMP 40	23 Aug 06 00:46
25	25	082225.d	1.	R	[VJA] INIT TEMP 40	23 Aug 06 01:19
26	26	082226.d	1.	1064875010A	[VJA] INIT TEMP 40	23 Aug 06 01:53
27	27	082227.d	1.	1064875011A	[VJA] INIT TEMP 40	23 Aug 06 02:26
28	28	082228.d	1.	1064875012A	[VJA] INIT TEMP 40	23 Aug 06 03:00
29	29	082229.d	1.	1064875001D	[VJA] INIT TEMP 40	23 Aug 06 03:33
30	30	082230.d	1.	1064875002D	[VJA] INIT TEMP 40	23 Aug 06 04:07
31	31	082231.d	1.	1064875003D	[VJA] INIT TEMP 40	23 Aug 06 04:40
32	32	082232.d	1.	1064875004D	[VJA] INIT TEMP 40	23 Aug 06 05:13
33	33	082233.d	1.	1064875005D	[VJA] INIT TEMP 40	23 Aug 06 05:46
34	34	082234.d	1.	1064875006D	[VJA] INIT TEMP 40	23 Aug 06 06:20
35	35	082235.d	1.	1064875007D	[VJA] INIT TEMP 40	23 Aug 06 06:53
36	36	082236.d	1.	1064875008D	[VJA] INIT TEMP 40	23 Aug 06 07:26
37	37	082237.d	1.	R	[VJA] INIT TEMP 40	23 Aug 06 07:59
38	38	082238.d	1.	R	[VJA] INIT TEMP 40	23 Aug 06 08:32

Instrument: VDA Method: 8260 Run Date: 8/21/06 Calibration Date: 8/20/06

Operator: WV Processed By: WV Posted By: WV

Prep Batch: 15821/15830 Analytical Batch: 8619/8628

Vial	Sample Name	Dilution	Sample Notes	pH	Rerun
1	R	—	—		
2	R	—	—		
3	IB				
4	CCV				
5	ICS				
6	ICSD				
7	R	—	—		
8	R	—	—		
9	MB				
10	4123-8	10	N.M.		
11	-8	1			
12	-9	10	13,		
13	-9	1	#45(112) #16(99)		
14	-10	10	#23(74) #26(116) #30(87) #35(115) #43(126)		
15	-10	1			
16	-11	10			
17	-11	1			
18	4123-3,9,10,11	10			
19	+	1			
20	R	—	—		
21	R	—	—		
22	IB				
23	CCV				
24	R	—	—		
25	R	—	—		
26	4875-10A		OK		
27	-11A		1		
28	-12A		1		
29	4875-10		OK		
30	-20		OK		
31	-30		OK		
32	-40		OK		

Standards: 823-06 IB 15 CCV ICS
VW6-68-1 VW6-95-1 VW6-97-1
94-1 96-1

Section 3.2



SGS Environmental Services
Calibration Review and Validation for:
Volatile Mass Spec: SW 8260B / EPA 624

VJA 82006

Instrument/Date Code (e.g., VNA0707):

VJA 0820

Year:

2006

Contents:

- Response Factor Report
- Tune Report/Chrom for IB
- Runlog and handwritten runlog
- Chromatograms for calibration points
- Chromatograms for ICV

Analyst's
Initials:

Reviewer's
Initials:

Date
Reviewed:

<u>WR</u>	<u>SDH</u>	<u>8-29-06</u>
<u>WR</u>	<u>SDH</u>	
<u>WR</u>	<u>SDH</u>	
<u>WR</u>	<u>SDH</u>	
<u>WR</u>	<u>SDH</u>	

Validation:

- RF%RSD = 0-15 calibrated with average response factor.
If >15%, use 2nd or 3rd order regression and $r^2 \geq 0.990$.
- Minimum of 5 points or 6 points for 2nd order regression
- Correct dates
- ICV Verification Form +/- 25%
- Correct calibration levels for PQL
- Update Retention Times
- SPCCs and CCCs meet criteria
- IS Areas updated/CC ISTD Areas printout
- Linear Regression printouts

Hand calculated Response Factor verified:

RF=As X Cis/Ais X Cs

Shown= 1.154

Calculated=

$$\frac{25823 \times 30}{671143 \times 1} = 1.154$$

1 PPB dichloro difluoromethane

<u>WR</u>	<u>SDH</u>	<u>8-24-06</u>
<u>WR</u>	<u>SDH</u>	
<u>WR</u>	<u>SDH</u>	
<u>WR</u>	<u>SDH</u>	
<u>WR</u>	<u>SDH</u>	
<u>WR</u>	<u>SDH</u>	
<u>WR</u>	<u>SDH</u>	
<u>WR</u>	<u>SDH</u>	
<u>WR</u>	<u>SDH</u>	
<u>WR</u>	<u>SDH</u>	

* dichloro difluoromethane ↑ 25%
I0 d2 methane

Instrument: VJA Method: 8260 Run Date: 8/20/06 Calibration Date: 8/20/06

Operator: WV Processed By: WV Posted By: _____

Prep Batch: _____ Analytical Batch: _____

Vial	Sample Name	Dilution	Sample Notes	pH	Rerun
1	TEST	[Large bracket spanning rows 1-21]	new column		
2	L				
3	L				
4	TEST 1.0				
5	L				
6	TEST 30				
7	L				
8	TEST 30				
9	L				
10	TEST 1				
11	L				
12	R				
13	R				
14	R				
15	R				
16	R				
17	IB				
18	0.4				
19	1.0				
20	3.0				
21	10				
22	30				
23	50				
24	70				
25	R				
26	R				
27	R				
28	R				
29	R				
30	R				
31	R				
32	R				
33	R				
34	R				
35	R				
36	R				
37	R				
38	R				
39	R				
40	R				
41	R				
42	R				
43	R				
44	R				
45	R				
46	R				
47	R				
48	R				
49	R				
50	R				
51	R				
52	R				
53	R				
54	R				
55	R				
56	R				
57	R				
58	R				
59	R				
60	R				
61	R				
62	R				
63	R				
64	R				
65	R				
66	R				
67	R				
68	R				
69	R				
70	R				
71	R				
72	R				
73	R				
74	R				
75	R				
76	R				
77	R				
78	R				
79	R				
80	R				
81	R				
82	R				
83	R				
84	R				
85	R				
86	R				
87	R				
88	R				
89	R				
90	R				
91	R				
92	R				
93	R				
94	R				
95	R				
96	R				
97	R				
98	R				
99	R				
100	R				

Standards: 15 CCV 105
VW6-68-1 VW6-95-1 VW6-97-1
L-94-1 + 96-1



SGS Environmental Services

Instrument: VJA Method: 8260 Run Date: 8/20/06 Calibration Date: 8/20/06

Operator: WV Processed By: WV Posted By: _____

Prep Batch: _____ Analytical Batch: _____

Vial	Sample Name	Dilution	Sample Notes	pH	Rerun
22	17060.4	x 1			
23					
24					
25					
26					
27					
28					
29					
[A large diagonal line is drawn across the table, indicating that the remaining rows are unused.]					

Standards: _____

Calibration Table Report
 Method: VJA_8260_0820.M
 Title: SGS Method 8260/524
 Last Calibration: Mon Aug 21 10:27:33 2006

Calibration Files

Compound	0.4	1	3	10	30	50	70	Avg	%RSD
	2006A.D	2007A.D	2008A.D	2009A.D	2010A.D	2011A.D	2012A.D		
Fluorobenzene IS	ISTD								
dichlorodifluoromethane		1.154	1.077	1.089	1.119	1.083	1.111	1.105	2.614
chloromethane		1.018	0.907	0.850	0.895	0.924	0.934	0.921	6.023
vinyl chloride	0.929	0.751	0.710	0.682	0.739	0.751		0.760	11.392
bromomethane		0.657	0.598	0.523	0.546	0.574	0.565	0.577	8.081
chloroethane		0.417	0.387	0.400	0.388	0.397	0.395	0.397	2.709
trichlorofluoromethane		1.266	1.270	1.261	1.290	1.327	1.226	1.273	2.634
1,1-dichloroethene		1.229	1.118	1.092	1.126	1.123	1.111	1.133	4.299
1,1,2-trichloro-1,2,2-fluoromethane		1.213	1.115	1.122	1.167	1.125	1.149	1.149	3.232
Acetone		0.133	0.154	0.141	0.144	0.139	0.134	0.141	5.322
Iodomethane	1.237	1.230	1.305	1.513	1.680	1.698	1.609	1.467	14.081
Carbon disulfide		3.823	3.337	3.264	3.371	3.362	3.284	3.407	6.118
methylene chloride		1.546	1.428	1.397	1.439	1.455	1.424	1.448	3.555
trans-1,2-dichloroethene		1.229	1.118	1.096	1.128	1.124	1.111	1.134	4.225
Acrylonitrile		0.456	0.426	0.422	0.439	0.431	0.432	0.434	2.754
Methyl-t-butyl ether	3.599	3.422	3.485	3.419	3.511	3.473	3.388	3.471	2.045
Vinyl Acetate								0.000	0.000
1,1-dichloroethane		2.586	2.489	2.424	2.520	2.539	2.462	2.504	2.301
2-Butanone			0.129	0.133	0.138	0.136	0.133	0.134	2.684
2,2-dichloropropane		2.072	1.846	1.852	1.897	1.898	1.844	1.901	4.588
cis-1,2-dichloroethene		1.602	1.495	1.457	1.477	1.497	1.459	1.498	3.585
bromochloromethane		0.753	0.733	0.736	0.748	0.754	0.746	0.745	1.181
chloroform	2.686	2.558	2.460	2.429	2.494	2.513	2.447	2.512	3.504
1,1,1-trichloroethane		2.151	1.985	1.954	2.052	2.045	2.000	2.031	3.409
Dibromofluoromethane <sur>	1.354	1.340	1.339	1.322	1.326	1.329	1.322	1.333	0.883
carbon tetrachloride		1.810	1.711	1.674	1.783	1.768	1.754	1.750	2.834
1,1-dichloropropene		2.041	1.724	1.737	1.837	1.819	1.782	1.823	6.313
1,2-Dichloroethane-D4 <sur>	1.412	1.384	1.400	1.368	1.375	1.364	1.338	1.377	1.792
benzene	5.942	5.669	5.580	5.434	5.545	5.510	5.278	5.566	3.714
1,2-dichloroethane	1.927	1.759	1.808	1.778	1.807	1.793	1.742	1.802	3.341
trichloroethene	1.587	1.488	1.392	1.384	1.430	1.464	1.418	1.452	4.826
1,2-dichloropropane	1.643	1.446	1.404	1.405	1.446	1.438	1.420	1.458	5.747
dibromomethane	0.952	0.816	0.820	0.810	0.837	0.836	0.827	0.842	5.839
2-chloroethylvinyl ether			0.731	0.717	0.755	0.745	0.739	0.737	1.932
bromodichloromethane	2.079	1.884	1.846	1.815	1.893	1.902	1.884	1.900	4.448
cis-1,3-dichloropropene	2.445	2.220	2.117	2.089	2.215	2.224	2.185	2.214	5.199
4-Methyl-2-pentanone			0.358	0.367	0.390	0.395	0.380	0.378	4.165
1-chloro-3-fluorobenzene<IS>	ISTD								
toluene-d8 <sur>	2.854	2.839	2.844	2.834	2.804	2.793	2.839	2.830	0.785
toluene		2.151	1.995	2.042	2.071	2.069	2.028	2.059	2.572
trans-1,3-dichloropropene		1.149	1.041	1.072	1.107	1.117	1.127	1.102	3.557
1,1,2-trichloroethane		0.584	0.575	0.586	0.587	0.583	0.598	0.585	1.244
tetrachloroethene		0.899	0.836	0.836	0.868	0.869	0.874	0.864	2.796
1,3-dichloropropane	1.241	1.186	1.176	1.176	1.180	1.151	1.161	1.181	2.436
2-Hexanone			0.353	0.365	0.378	0.379	0.369	0.369	2.927
dibromochloromethane	0.860	0.811	0.791	0.801	0.843	0.859	0.880	0.835	4.069
1,2-dibromoethane	0.748	0.665	0.683	0.665	0.674	0.670	0.679	0.683	4.279
1-chlorohexane	0.780	0.688	0.653	0.665	0.703	0.692	0.698	0.697	5.854
chlorobenzene	2.548	2.362	2.296	2.259	2.295	2.293	2.276	2.333	4.288
1,1,1,2-tetrachloroethane	0.822	0.802	0.788	0.813	0.818	0.821	0.822	0.812	1.557
ethylbenzene	4.223	3.898	3.675	3.696	3.735	3.726	3.636	3.798	5.390
P & M -Xylene	1.680	1.530	1.475	1.477	1.492	1.474	1.443	1.510	5.246
o-xylene	1.620	1.487	1.443	1.450	1.491	1.486	1.455	1.490	4.062
styrene		2.462	2.327	2.380	2.454	2.463	2.418	2.417	2.265
bromoform	0.535	0.490	0.463	0.486	0.517	0.528	0.544	0.509	5.834

Isopropylbenzene (Cumene)	4.405	3.833	3.539	3.569	3.612	3.608	3.561	3.732	8.377
1,2-dichlorobenzene-d4 <IS>	ISTD								
4-Bromofluorobenzene <Surr>	1.073	1.086	1.064	1.057	1.048	1.044	1.041	1.059	1.558
bromobenzene		0.939	0.906	0.881	0.899	0.910	0.902	0.906	2.071
1,1,2,2-tetrachloroethane	0.888	0.781	0.740	0.710	0.713	0.711	0.717	0.751	8.721
1,2,3-Trichloropropane	0.226	0.229	0.224	0.212	0.216	0.214	0.213	0.219	3.158
trans-1,4-Dichloro-2-butene	0.183	0.168	0.143	0.142	0.149	0.154	0.154	0.156	9.418
n-propylbenzene		4.332	3.813	3.819	3.881	3.873	3.735	3.909	5.473
2-chlorotoluene		2.899	2.709	2.673	2.686	2.719	2.626	2.719	3.466
4-chlorotoluene		2.659	2.466	2.439	2.469	2.468	2.410	2.485	3.551
1,3,5-trimethylbenzene		2.880	2.692	2.740	2.822	2.840	2.749	2.787	2.559
tert-butylbenzene	2.909	2.724	2.385	2.390	2.394	2.401	2.368	2.510	8.612
1,2,4-trimethylbenzene		2.714	2.589	2.689	2.800	2.832	2.748	2.728	3.167
sec-butylbenzene	4.007	3.559	3.119	3.136	3.242	3.220	3.157	3.348	9.759
1,3-dichlorobenzene		1.791	1.625	1.599	1.624	1.650	1.621	1.652	4.252
4-isopropyltoluene		3.020	2.749	2.802	2.926	2.939	2.890	2.887	3.400
1,4-dichlorobenzene	1.980	1.702	1.576	1.564	1.615	1.647	1.627	1.673	8.545
1,2-dichlorobenzene		1.624	1.518	1.521	1.557	1.581	1.562	1.560	2.546
n-butylbenzene		2.568	2.295	2.353	2.464	2.506	2.489	2.446	4.172
1,2-dibromo-3-chloropropane	0.162	0.124	0.149	0.124	0.120	0.124	0.126	0.133	12.005
1,2,4-trichlorobenzene		1.129	1.021	0.980	1.021	1.063	1.062	1.046	4.900
hexachlorobutadiene	0.632	0.522	0.451	0.445	0.452	0.467	0.471	0.491	13.641
naphthalene		2.447	2.158	2.040	2.091	2.107	2.124	2.161	6.719
1,2,3-trichlorobenzene		2.028	1.835	1.840	1.878	1.889	1.848	1.919	5.515

Mon Aug 21 10:30:03 2006

CC ISTD Areas

CC Data File : E:\PUBLIC\2006\08\VJA\DATA\082006\2010A.D
Date Acquired: 21 Aug 2006 1:35

ISTD Name	Response
Fluorobenzene IS	705715
1-chloro-3-fluorobenzene<IS>	1225910
1,2-dichlorobenzene-d4 <IS>	1328850

Surrogates

Dibromofluoromethane <surr>
1,2-Dichloroethane-D4 <surr>
toluene-d8 <surr>
4-Bromofluorobenzene <Surr>

Evaluate Continuing Calibration Report

Data Path : E:\PUBLIC\2006\08\VJA\DATA\082006\
 Data File : 2017A.D
 Acq On : 21 Aug 2006 5:28
 Operator : WAW
 Sample : ICV
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 21 10:28:37 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 10:27:33 2006
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Fluorobenzene IS	30.000	30.000	0.0	102	0.00
2 M	dichlorodifluoromethane	30.000	45.620	-52.1#	153	0.00
3 PM	chloromethane	30.000	35.227	-17.4	123	0.00
4 CM	vinyl chloride	30.000	36.663	-22.2#	128	0.00
5 M	bromomethane	30.000	36.241	-20.8	130	0.00
6 M	chloroethane	30.000	36.396	-21.3	126	0.00
7 M	trichlorofluoromethane	30.000	35.374	-17.9	118	0.00
8 CM	1,1-dichloroethene	30.000	33.666	-12.2	115	0.00
9 M	1,1,2-trichloro-1,2,2-fluor	45.000	51.109	-13.6	114	0.00
10 M	Acetone	90.000	104.477	-16.1	115	0.00
11 M	Iodomethane	45.000	58.840	-30.8#	116	0.00
12 M	Carbon disulfide	45.000	53.146	-18.1	121	0.00
13 M	methylene chloride	30.000	30.728	-2.4	105	0.00
14 M	trans-1,2-dichloroethene	30.000	33.652	-12.2	115	0.00
15 M	Acrylonitrile	45.000	44.215	1.7	99	0.00
16 M	Methyl-t-butyl ether	45.000	45.723	-1.6	102	0.00
17 M	Vinyl Acetate	30.000	0.000	100.0#	0	-0.02
18 PM	1,1-dichloroethane	30.000	31.333	-4.4	106	0.00
19 M	2-Butanone	90.000	102.118	-13.5	112	0.00
20 M	2,2-dichloropropane	30.000	30.401	-1.3	103	0.00
21 M	cis-1,2-dichloroethene	30.000	31.166	-3.9	107	0.00
22 M	bromochloromethane	30.000	30.702	-2.3	104	0.00
23 CM	chloroform	30.000	30.018	-0.1	103	0.00
24 M	1,1,1-trichloroethane	30.000	31.506	-5.0	106	0.00
25 S	Dibromofluoromethane <surr>	30.000	29.945	0.2	102	0.00
26 M	carbon tetrachloride	30.000	31.687	-5.6	105	0.00
27 M	1,1-dichloropropene	30.000	31.753	-5.8	107	0.00
28 S	1,2-Dichloroethane-D4 <surr>	30.000	29.402	2.0	100	0.00
29 M	benzene	30.000	31.155	-3.9	106	0.00
30 M	1,2-dichloroethane	30.000	30.511	-1.7	103	0.00
31 M	trichloroethene	30.000	31.004	-3.3	107	0.00
32 CM	1,2-dichloropropane	30.000	30.777	-2.6	105	0.00
33 M	dibromomethane	30.000	29.568	1.4	101	0.00
34	2-chloroethylvinyl ether	45.000	45.306	-0.7	100	0.00
35 M	bromodichloromethane	30.000	29.489	1.7	100	0.00
36 M	cis-1,3-dichloropropene	30.000	30.318	-1.1	103	0.00
37 M	4-Methyl-2-pentanone	90.000	99.224	-10.2	109	0.00
38 I	1-chloro-3-fluorobenzene<IS	30.000	30.000	0.0	101	0.00
39 S	toluene-d8 <surr>	30.000	29.660	1.1	101	0.00
40 CM	toluene	30.000	31.032	-3.4	104	0.00
41 M	trans-1,3-dichloropropene	30.000	30.093	-0.3	101	0.00
42 M	1,1,2-trichloroethane	30.000	30.373	-1.2	103	0.00
43 M	tetrachloroethene	30.000	31.045	-3.5	104	0.00
44 M	1,3-dichloropropane	30.000	30.004	-0.0	102	0.00
45 M	2-Hexanone	90.000	99.234	-10.3	109	0.00
46 M	dibromochloromethane	30.000	29.311	2.3	98	0.00
47 M	1,2-dibromoethane	30.000	29.132	2.9	100	0.00
48 M	1-chlorohexane	45.000	46.188	-2.6	103	0.00
49 PM	chlorobenzene	30.000	30.269	-0.9	104	0.00
50 M	1,1,1,2-tetrachloroethane	30.000	30.668	-2.2	103	0.00
51 CM	ethylbenzene	30.000	30.533	-1.8	105	0.00

Evaluate Continuing Calibration Report

Data Path : E:\PUBLIC\2006\08\VJA\DATA\082006\
 Data File : 2017A.D
 Acq On : 21 Aug 2006 5:28
 Operator : WAW
 Sample : ICV
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 21 10:28:37 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 10:27:33 2006
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52 M	P & M -Xylene	60.000	61.626	-2.7	106	0.00
53 M	o-xylene	30.000	30.749	-2.5	104	0.00
54 M	styrene	30.000	31.752	-5.8	106	0.00
55 PM	bromoform	30.000	30.477	-1.6	101	0.00
56 M	Isopropylbenzene (Cumene)	30.000	29.260	2.5	102	0.00
57 I	1,2-dichlorobenzene-d4 <IS>	30.000	30.000	0.0	102	0.00
58 S	4-Bromofluorobenzene <Surr>	30.000	29.605	1.3	101	0.00
59 M	bromobenzene	30.000	30.069	-0.2	103	0.00
60 PM	1,1,2,2-tetrachloroethane	30.000	28.975	3.4	103	0.00
61 M	1,2,3-Trichloropropane	30.000	29.250	2.5	101	0.00
62 M	trans-1,4-Dichloro-2-butene	45.000	44.961	0.1	106	0.00
63 M	n-propylbenzene	30.000	30.399	-1.3	104	0.00
64 M	2-chlorotoluene	30.000	30.602	-2.0	105	0.00
65 M	4-chlorotoluene	30.000	30.556	-1.9	104	0.00
66 M	1,3,5-trimethylbenzene	30.000	30.954	-3.2	103	0.00
67 M	tert-butylbenzene	30.000	29.323	2.3	104	0.00
68 M	1,2,4-trimethylbenzene	30.000	32.053	-6.8	106	0.00
69 M	sec-butylbenzene	30.000	30.943	-3.1	108	0.00
70 M	1,3-dichlorobenzene	30.000	30.203	-0.7	104	0.00
71 M	4-isopropyltoluene	30.000	30.875	-2.9	103	0.00
72 M	1,4-dichlorobenzene	30.000	30.063	-0.2	105	0.00
73 M	1,2-dichlorobenzene	30.000	30.079	-0.3	102	0.00
74 M	n-butylbenzene	30.000	30.491	-1.6	102	0.00
75 M	1,2-dibromo-3-chloropropane	30.000	26.523	11.6	99	0.00
76 M	1,2,4-trichlorobenzene	30.000	28.931	3.6	100	0.00
77 M	hexachlorobutadiene	30.000	27.435	8.6	101	-0.01
78 M	naphthalene	30.000	27.896	7.0	98	0.00
79 M	1,2,3-trichlorobenzene	30.000	28.473	5.1	100	0.00

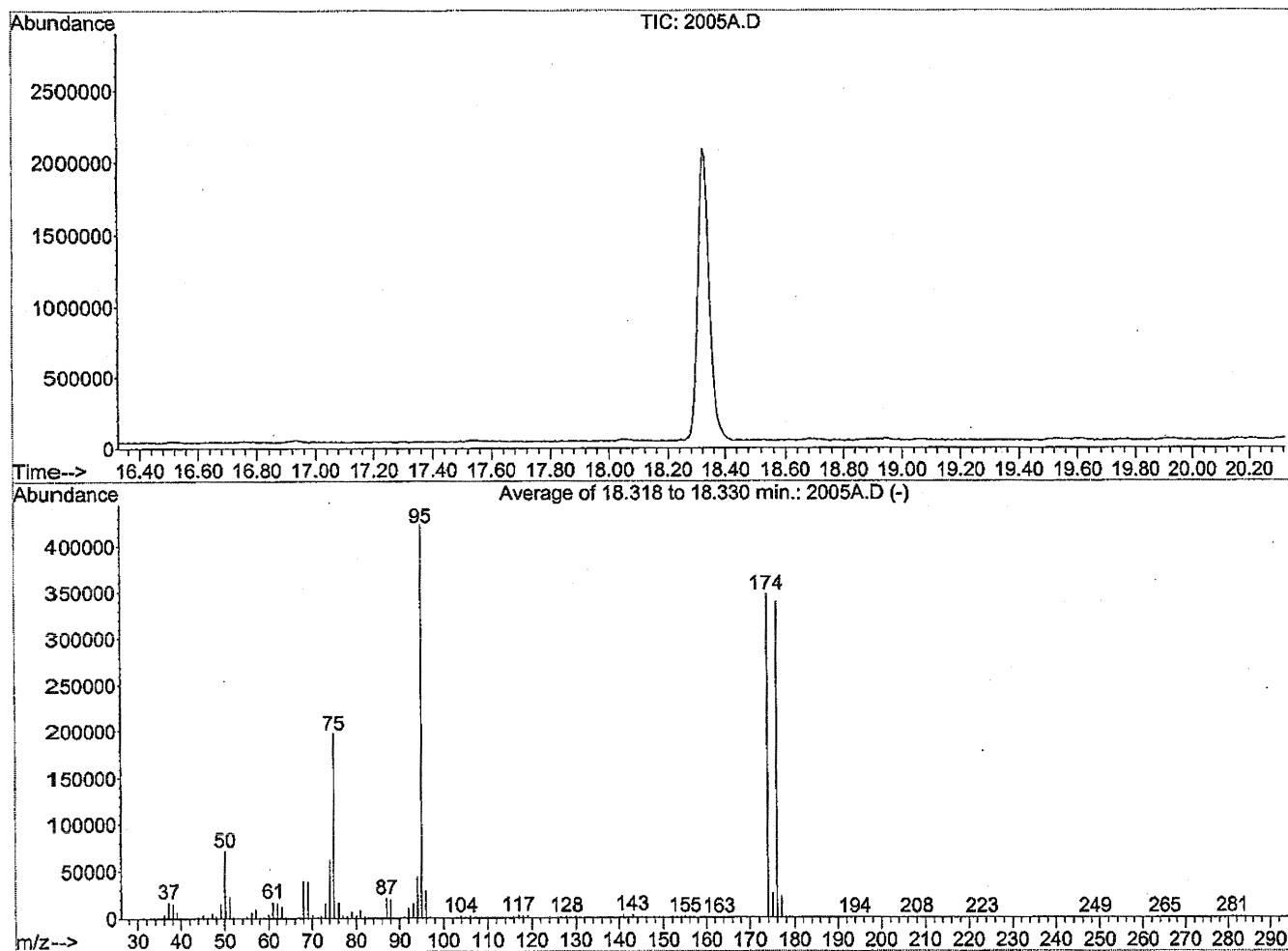
(#) = Out of Range

SPCC's out = 0 CCC's out = 1

Data Path : E:\PUBLIC\2006\08\VJA\DATA\082006\
 Data File : 2005A.D
 Acq On : 20 Aug 2006 22:47
 Operator : WAW
 Sample : IB
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 5 Sample Multiplier: 1

Integration File: rteint.p

Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Title : SGS Method 8260/524
 Last Update : Mon Aug 21 10:27:33 2006



AutoFind: Scans 2525, 2526, 2527; Background Corrected with Scan 2510

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.9	71402	PASS
75	95	30	60	46.5	196895	PASS
95	95	100	100	100.0	423253	PASS
96	95	5	9	6.7	28216	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	82.0	347072	PASS
175	174	5	9	7.3	25378	PASS
176	174	95	101	97.6	338581	PASS
177	176	5	9	6.6	22362	PASS

Quantitation Report (QT Reviewed)

Data Path : E:\PUBLIC\2006\08\VJA\DATA\082006\
 Data File : 2005A.D
 Acq On : 20 Aug 2006 22:47
 Operator : WAW
 Sample : IB
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 5 Sample Multiplier: 1

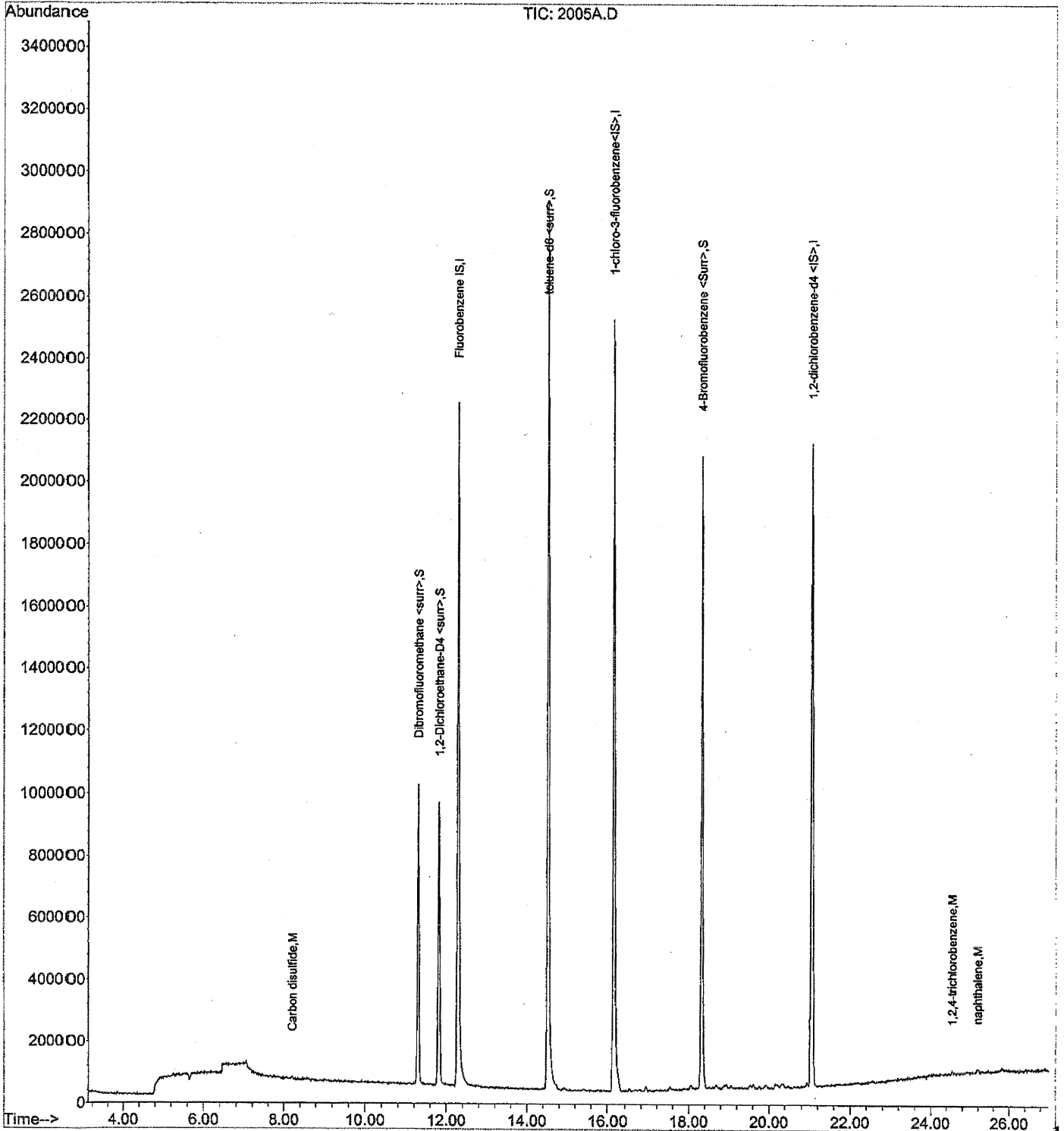
Quant Time: Aug 21 10:29:31 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 10:27:33 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	12.28	70	661292	30.00	µg/l	0.00
38) 1-chloro-3-fluorobenzene<I	16.15	95	1130809	30.00	µg/L	0.00
57) 1,2-dichlorobenzene-d4 <IS	21.07	152	1152557	30.00	µg/l	0.00
System Monitoring Compounds						
25) Dibromofluoromethane <surr	11.29	111	883720	30.07	µg/L	0.00
Spiked Amount	30.000	Range 85 - 115	Recovery	=	100.23%	
28) 1,2-Dichloroethane-D4 <sur	11.81	65	921032	30.34	µg/l	0.00
Spiked Amount	30.000	Range 72 - 119	Recovery	=	101.13%	
39) toluene-d8 <surr>	14.51	98	3204227	30.04	µg/L	0.00
Spiked Amount	30.000	Range 85 - 120	Recovery	=	100.13%	
58) 4-Bromofluorobenzene <Surr	18.32	95	1246338	30.63	µg/l	0.00
Spiked Amount	30.000	Range 76 - 119	Recovery	=	102.10%	
Target Compounds						
12) Carbon disulfide	8.21	76	16259	0.22	µg/L	Qvalue # 94
76) 1,2,4-trichlorobenzene	24.54	180	8905	0.22	µg/l	83
78) naphthalene	25.20	128	17950	0.22	µg/l	96

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

Data Path : E:\PUBLIC\2006\08\VJA\DATA\082006\
Data File : 2005A.D
Acq On : 20 Aug 2006 22:47
Operator : WAW
Sample : IB
Misc : [VJA] INIT TEMP 40
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 21 10:29:31 2006
Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
Quant Title : SGS Method 8260/524
QLast Update : Mon Aug 21 10:27:33 2006
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : E:\PUBLIC\2006\08\VJA\DATA\082006\
 Data File : 2006A.D
 Acq On : 20 Aug 2006 23:21
 Operator : WAW
 Sample : 0.4
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 10:25:07 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 10:24:20 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	12.28	70	661031	30.00	µg/l	0.00
38) 1-chloro-3-fluorobenzene<I	16.15	95	1133774	30.00	µg/L	0.00
57) 1,2-dichlorobenzene-d4 <IS	21.07	152	1168996	30.00	µg/l	0.00

System Monitoring Compounds

25) Dibromofluoromethane <surr	11.29	111	895133	30.47	µg/L	0.00
Spiked Amount	30.000	Range 85 - 115	Recovery	=	101.57%	
28) 1,2-Dichloroethane-D4 <sur	11.81	65	933673	30.76	µg/l	0.00
Spiked Amount	30.000	Range 72 - 119	Recovery	=	102.53%	
39) toluene-d8 <surr>	14.51	98	3235471	30.26	µg/L	0.00
Spiked Amount	30.000	Range 85 - 120	Recovery	=	100.87%	
58) 4-Bromofluorobenzene <Surr	18.32	95	1253949	30.39	µg/l	0.00
Spiked Amount	30.000	Range 76 - 119	Recovery	=	101.30%	

Target Compounds

						Qvalue
2) dichlorodifluoromethane	4.33	85	10645	0.44	µg/l	97
3) chloromethane	4.80	50	10628	0.52	µg/l	84
4) vinyl chloride	5.10	62	8184	0.49	µg/l #	64
5) bromomethane	5.93	94	8777	0.69	µg/l	98
6) chloroethane	6.15	64	6410	0.73	µg/l	94
7) trichlorofluoromethane	6.72	101	10874	0.39	µg/l #	73
8) 1,1-dichloroethene	7.76	96	13270	0.53	µg/l	88
9) 1,1,2-trichloro-1,2,2-fluo	7.73	101	15537	0.61	µg/L	96
10) Acetone	7.84	58	3061	0.99	µg/L #	43
11) Iodomethane	8.06	142	16357	0.51	µg/L #	91
12) Carbon disulfide	8.20	76	60971	0.81	µg/L	99
13) methylene chloride	8.60	84	15867	0.50	µg/l #	87
14) trans-1,2-dichloroethene	7.76	96	13270	0.53	µg/l	96
15) Acrylonitrile	9.00	53	7796	0.81	µg/L	93
16) Methyl-t-butyl ether	9.06	73	47579	0.62	µg/L	91
18) 1,1-dichloroethane	9.75	63	23953	0.43	µg/l	96
19) 2-Butanone	10.62	72	3478	1.18	µg/L	77
20) 2,2-dichloropropane	10.64	77	20164	0.48	µg/l	98
21) cis-1,2-dichloroethene	10.61	96	15990	0.48	µg/l	94
22) bromochloromethane	10.97	128	7000	0.43	µg/l #	88
23) chloroform	11.05	83	23673	0.43	µg/l	98
24) 1,1,1-trichloroethane	11.39	97	18053	0.40	µg/l	92
26) carbon tetrachloride	11.64	117	16190	0.42	µg/l	94
27) 1,1-dichloropropene	11.61	75	18524	0.46	µg/l	90
29) benzene	11.92	78	52374	0.43	µg/l	96
30) 1,2-dichloroethane	11.91	62	16983	0.43	µg/l	100
31) trichloroethene	12.80	95	13985	0.44	µg/l	93
32) 1,2-dichloropropane	13.12	63	14483	0.45	µg/l	98
33) dibromomethane	13.30	93	8387	0.45	µg/l	90
34) 2-chloroethylvinyl ether	13.82	63	10265	0.63	µg/L	91
35) bromodichloromethane	13.48	83	18323	0.44	µg/l	96
36) cis-1,3-dichloropropene	14.09	75	21553	0.44	µg/l	95
37) 4-Methyl-2-pentanone	15.43	58	9443	1.13	µg/L #	35
40) toluene	14.61	92	33755	0.43	µg/l	97
41) trans-1,3-dichloropropene	14.84	75	19100	0.46	µg/l	86
42) 1,1,2-trichloroethane	15.14	83	10396	0.47	µg/l	97
43) tetrachloroethene	15.42	166	15070	0.46	µg/l	97
44) 1,3-dichloropropane	15.40	76	18755	0.42	µg/l #	58
45) 2-Hexanone	15.43	43	14434	1.04	µg/L #	79
46) dibromochloromethane	15.76	129	13000	0.41	µg/l	95
47) 1,2-dibromoethane	15.97	107	11305	0.44	µg/l #	89

Quantitation Report (Not Reviewed)

Data Path : E:\PUBLIC\2006\08\VJA\DATA\082006\
 Data File : 2006A.D
 Acq On : 20 Aug 2006 23:21
 Operator : WAW
 Sample : 0.4
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 10:25:07 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 10:24:20 2006
 Response via : Initial Calibration

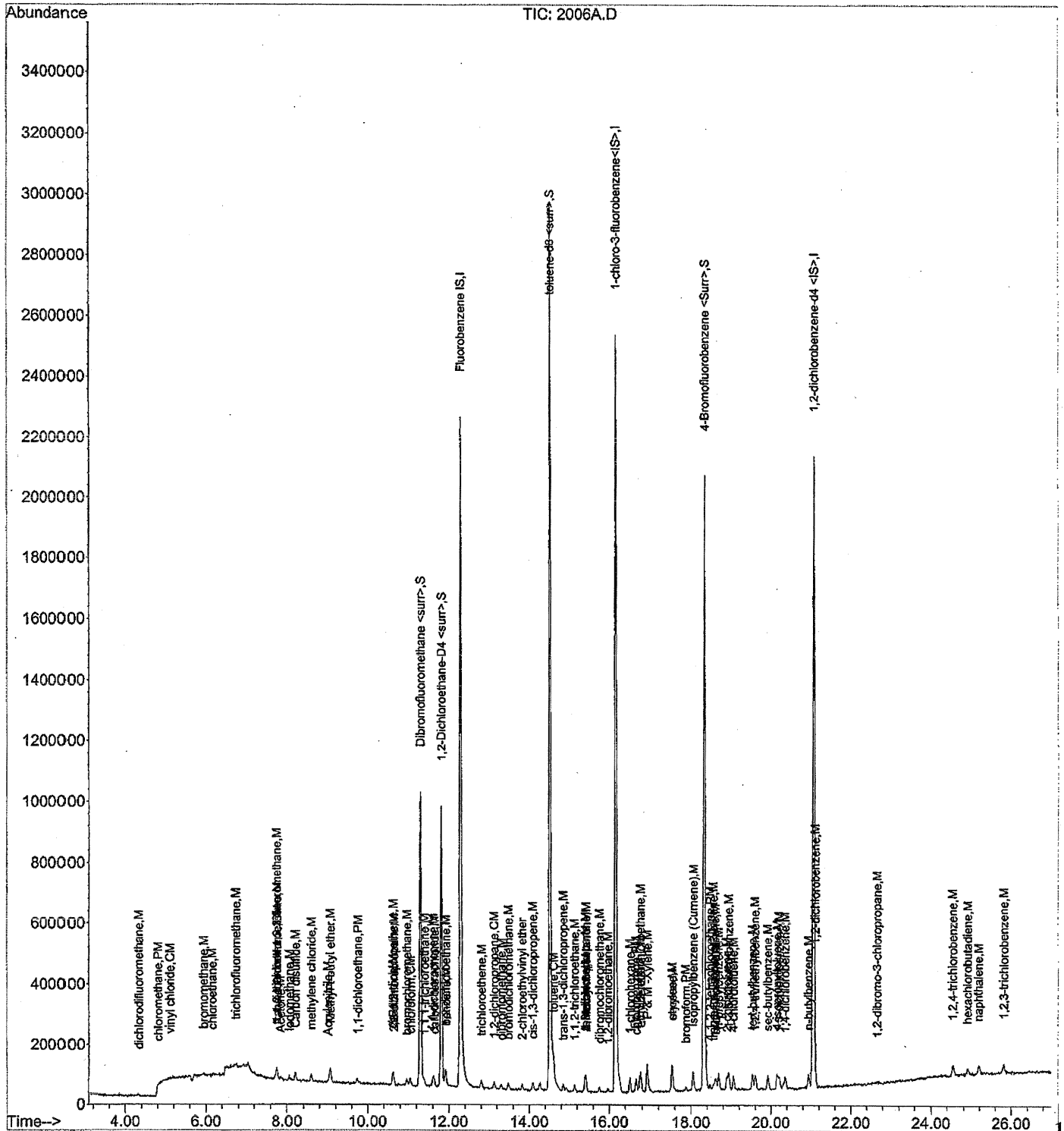
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1-chlorohexane	16.51	55	17689	0.67	µg/L	95
49) chlorobenzene	16.66	112	38513	0.44	µg/l	95
50) 1,1,1,2-tetrachloroethane	16.75	131	12419	0.40	µg/l	90
51) ethylbenzene	16.77	91	63836	0.44	µg/l	96
52) P & M -Xylene	16.93	106	50780	0.89	µg/l	90
53) o-xylene	17.53	106	24489	0.43	µg/l	95
54) styrene	17.54	104	39101	0.43	µg/l	99
55) bromoform	17.87	173	8081	0.42	µg/l	93
56) Isopropylbenzene (Cumene)	18.06	105	66594	0.47	µg/l	99
59) bromobenzene	18.62	156	16303	0.46	µg/l #	87
60) 1,1,2,2-tetrachloroethane	18.47	83	13846	0.47	µg/l	97
61) 1,2,3-Trichloropropane	18.59	110	3522	0.41	µg/l #	1
62) trans-1,4-Dichloro-2-buten	18.55	53	4271	0.70	µg/L #	83
63) n-propylbenzene	18.69	91	74537	0.49	µg/l	97
64) 2-chlorotoluene	18.89	91	51225	0.48	µg/l	92
65) 4-chlorotoluene	19.07	91	48396	0.50	µg/l	97
66) 1,3,5-trimethylbenzene	18.94	105	51991	0.48	µg/l	99
67) tert-butylbenzene	19.53	119	45347	0.46	µg/l	99
68) 1,2,4-trimethylbenzene	19.60	105	50101	0.47	µg/l	98
69) sec-butylbenzene	19.93	105	62460	0.48	µg/l	97
70) 1,3-dichlorobenzene	20.20	146	31303	0.49	µg/l	98
71) 4-isopropyltoluene	20.15	119	54614	0.49	µg/l	99
72) 1,4-dichlorobenzene	20.36	146	30864	0.47	µg/l	98
73) 1,2-dichlorobenzene	21.12	146	28430	0.47	µg/l #	53
74) n-butylbenzene	20.94	91	49705	0.52	µg/l	97
75) 1,2-dibromo-3-chloropropan	22.67	75	2519	0.49	µg/l #	67
76) 1,2,4-trichlorobenzene	24.55	180	22347	0.55	µg/l	96
77) hexachlorobutadiene	24.92	225	9845	0.51	µg/l	93
78) naphthalene	25.20	128	49336	0.59	µg/l	92
79) 1,2,3-trichlorobenzene	25.84	180	21074	0.53	µg/l	90

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

Quantitation Report (Not Reviewed)

Data Path : E:\PUBLIC\2006\08\VJA\DATA\082006\
 Data File : 2006A.D
 Acq On : 20 Aug 2006 23:21
 Operator : WAW
 Sample : 0.4
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 21 10:25:07 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 10:24:20 2006
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : E:\PUBLIC\2006\08\VJA\DATA\082006\
 Data File : 2007A.D
 Acq On : 20 Aug 2006 23:54
 Operator : WAW
 Sample : 1.0
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 21 10:25:10 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 10:24:20 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	12.28	70	671143	30.00	µg/l	0.00
38) 1-chloro-3-fluorobenzene<I	16.15	95	1136227	30.00	µg/L	0.00
57) 1,2-dichlorobenzene-d4 <IS	21.07	152	1171691	30.00	µg/l	0.00

System Monitoring Compounds						
25) Dibromofluoromethane <surr	11.29	111	899591	30.16	µg/L	0.00
Spiked Amount	30.000	Range 85 - 115	Recovery	=	100.53%	
28) 1,2-Dichloroethane-D4 <sur	11.81	65	929042	30.15	µg/l	0.00
Spiked Amount	30.000	Range 72 - 119	Recovery	=	100.50%	
39) toluene-d8 <surr>	14.51	98	3225726	30.10	µg/L	0.00
Spiked Amount	30.000	Range 85 - 120	Recovery	=	100.33%	
58) 4-Bromofluorobenzene <Surr	18.32	95	1272852	30.78	µg/l	0.00
Spiked Amount	30.000	Range 76 - 119	Recovery	=	102.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) dichlorodifluoromethane	4.32	85	25823	1.04	µg/l	90
3) chloromethane	4.81	50	22765	1.10	µg/l	94
4) vinyl chloride	5.10	62	16807	0.99	µg/l	76
5) bromomethane	5.93	94	14699	1.14	µg/l #	78
6) chloroethane	6.15	64	9320	1.05	µg/l	81
7) trichlorofluoromethane	6.72	101	28322	0.99	µg/l	82
8) 1,1-dichloroethene	7.75	96	27505	1.08	µg/l	99
9) 1,1,2-trichloro-1,2,2-fluo	7.73	101	40699	1.58	µg/L	99
10) Acetone	7.83	58	8917	2.83	µg/L #	45
11) Iodomethane	8.05	142	41274	1.26	µg/L	99
12) Carbon disulfide	8.20	76	128305	1.68	µg/L	99
13) methylene chloride	8.60	84	34587	1.07	µg/l	89
14) trans-1,2-dichloroethene	7.75	96	27505	1.08	µg/l	92
15) Acrylonitrile	8.99	53	15299	1.57	µg/L	97
16) Methyl-t-butyl ether	9.06	73	114844	1.48	µg/L	97
18) 1,1-dichloroethane	9.73	63	57862	1.03	µg/l	96
19) 2-Butanone	10.62	72	7695	2.57	µg/L #	60
20) 2,2-dichloropropane	10.63	77	46357	1.09	µg/l	81
21) cis-1,2-dichloroethene	10.61	96	35834	1.07	µg/l	96
22) bromochloromethane	10.97	128	16851	1.01	µg/l #	83
23) chloroform	11.06	83	57221	1.02	µg/l	99
24) 1,1,1-trichloroethane	11.38	97	48112	1.06	µg/l	93
26) carbon tetrachloride	11.63	117	40492	1.03	µg/l	94
27) 1,1-dichloropropene	11.60	75	45651	1.12	µg/l	96
29) benzene	11.92	78	126831	1.02	µg/l	98
30) 1,2-dichloroethane	11.92	62	39353	0.98	µg/l	90
31) trichloroethene	12.80	95	33287	1.02	µg/l	93
32) 1,2-dichloropropane	13.12	63	32356	0.99	µg/l	100
33) dibromomethane	13.30	93	18253	0.97	µg/l	97
34) 2-chloroethylvinyl ether	13.82	63	24865	1.51	µg/L	89
35) bromodichloromethane	13.49	83	42148	0.99	µg/l	98
36) cis-1,3-dichloropropene	14.10	75	49655	1.00	µg/l	90
37) 4-Methyl-2-pentanone	15.43	58	21890	2.59	µg/L #	40
40) toluene	14.61	92	81457	1.04	µg/l	93
41) trans-1,3-dichloropropene	14.85	75	43522	1.04	µg/l	93
42) 1,1,2-trichloroethane	15.14	83	22133	1.00	µg/l	93
43) tetrachloroethene	15.42	166	34035	1.04	µg/l	98
44) 1,3-dichloropropane	15.40	76	44925	1.00	µg/l	93
45) 2-Hexanone	15.43	43	35999	2.58	µg/L #	86
46) dibromochloromethane	15.76	129	30711	0.97	µg/l	100
47) 1,2-dibromoethane	15.98	107	25185	0.97	µg/l	95

Data Path : E:\PUBLIC\2006\08\VJA\DATA\082006\
 Data File : 2007A.D
 Acq On : 20 Aug 2006 23:54
 Operator : WAW
 Sample : 1.0
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 21 10:25:10 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 10:24:20 2006
 Response via : Initial Calibration

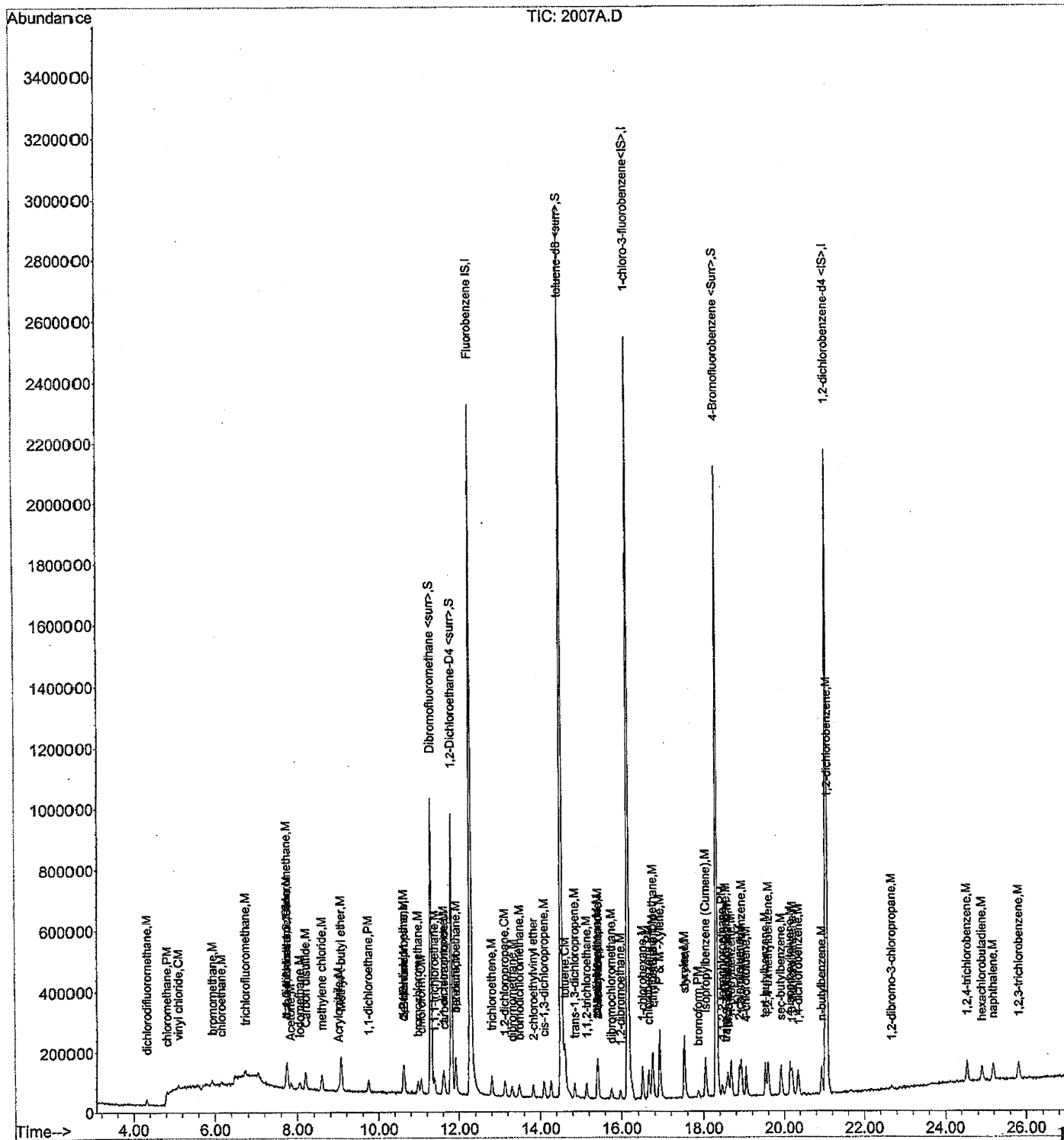
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1-chlorohexane	16.51	55	39088	1.48	µg/L	90
49) chlorobenzene	16.66	112	89460	1.01	µg/l	98
50) 1,1,1,2-tetrachloroethane	16.75	131	30388	0.99	µg/l	96
51) ethylbenzene	16.77	91	147636	1.03	µg/l	98
52) P & M -Xylene	16.92	106	115909	2.03	µg/l	90
53) o-xylene	17.53	106	56302	1.00	µg/l	91
54) styrene	17.54	104	93259	1.02	µg/l	99
55) bromoform	17.88	173	18565	0.96	µg/l	96
56) Isopropylbenzene (Cumene)	18.06	105	145177	1.03	µg/l	99
59) bromobenzene	18.62	156	36657	1.04	µg/l #	88
60) 1,1,2,2-tetrachloroethane	18.47	83	30504	1.04	µg/l	98
61) 1,2,3-Trichloropropane	18.59	110	8930	1.04	µg/l #	1
62) trans-1,4-Dichloro-2-buten	18.55	53	9868	1.62	µg/L #	21
63) n-propylbenzene	18.69	91	169197	1.11	µg/l	95
64) 2-chlorotoluene	18.90	91	113222	1.07	µg/l	92
65) 4-chlorotoluene	19.05	91	103845	1.07	µg/l	100
66) 1,3,5-trimethylbenzene	18.94	105	112467	1.03	µg/l	100
67) tert-butylbenzene	19.53	119	106371	1.08	µg/l	94
68) 1,2,4-trimethylbenzene	19.61	105	105987	0.99	µg/l	97
69) sec-butylbenzene	19.92	105	138986	1.06	µg/l	97
70) 1,3-dichlorobenzene	20.21	146	69955	1.08	µg/l	98
71) 4-isopropyltoluene	20.15	119	117943	1.05	µg/l	98
72) 1,4-dichlorobenzene	20.36	146	66492	1.02	µg/l	97
73) 1,2-dichlorobenzene	21.10	146	63438	1.04	µg/l #	80
74) n-butylbenzene	20.95	91	100285	1.05	µg/l	96
75) 1,2-dibromo-3-chloropropan	22.69	75	4849	0.94	µg/l	93
76) 1,2,4-trichlorobenzene	24.55	180	44114	1.08	µg/l	97
77) hexachlorobutadiene	24.92	225	20398	1.06	µg/l	93
78) naphthalene	25.20	128	95557	1.13	µg/l	94
79) 1,2,3-trichlorobenzene	25.82	180	41187	1.03	µg/l	95

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

Quantitation Report (Not Reviewed)

Data Path : E:\PUBLIC\2006\08\VJA\DATA\082006\
 Data File : 2007A.D
 Acq On : 20 Aug 2006 23:54
 Operator : WAW
 Sample : 1.0
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 21 10:25:10 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 10:24:20 2006
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : E:\PUBLIC\2006\08\VJA\DATA\082006\
 Data File : 2008A.D
 Acq On : 21 Aug 2006 00:28
 Operator : WAW
 Sample : 3.0
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 21 10:25:13 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 10:24:20 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	12.28	70	678904	30.00	µg/l	0.00
38) 1-chloro-3-fluorobenzene<I	16.15	95	1162448	30.00	µg/L	0.00
57) 1,2-dichlorobenzene-d4 <IS	21.07	152	1213268	30.00	µg/l	0.00

System Monitoring Compounds

25) Dibromofluoromethane <surr	11.29	111	909079	30.13	µg/L	0.00
Spiked Amount	30.000	Range 85 - 115	Recovery	=	100.43%	
28) 1,2-Dichloroethane-D4 <sur	11.81	65	950741	30.50	µg/l	0.00
Spiked Amount	30.000	Range 72 - 119	Recovery	=	101.67%	
39) toluene-d8 <surr>	14.51	98	3306547	30.16	µg/L	0.00
Spiked Amount	30.000	Range 85 - 120	Recovery	=	100.53%	
58) 4-Bromofluorobenzene <Surr	18.32	95	1290821	30.14	µg/l	0.00
Spiked Amount	30.000	Range 76 - 119	Recovery	=	100.47%	

Target Compounds

						Qvalue
2) dichlorodifluoromethane	4.32	85	73089	2.92	µg/l	91
3) chloromethane	4.80	50	61594	2.95	µg/l	90
4) vinyl chloride	5.10	62	48223	2.80	µg/l	97
5) bromomethane	5.93	94	40609	3.11	µg/l	92
6) chloroethane	6.16	64	26280	2.92	µg/l	77
7) trichlorofluoromethane	6.72	101	86206	2.99	µg/l	99
8) 1,1-dichloroethene	7.76	96	75878	2.96	µg/l	98
9) 1,1,2-trichloro-1,2,2-fluo	7.73	101	113545	4.37	µg/L	99
10) Acetone	7.84	58	31281	9.81	µg/L #	57
11) Iodomethane	8.05	142	132922	4.00	µg/L	95
12) Carbon disulfide	8.20	76	339842	4.41	µg/L	100
13) methylene chloride	8.60	84	96968	2.96	µg/l	94
14) trans-1,2-dichloroethene	7.76	96	75878	2.96	µg/l	89
15) Acrylonitrile	9.00	53	43396	4.41	µg/L #	95
16) Methyl-t-butyl ether	9.06	73	354855	4.52	µg/L	96
18) 1,1-dichloroethane	9.74	63	169010	2.98	µg/l	98
19) 2-Butanone	10.62	72	26203	8.65	µg/L #	58
20) 2,2-dichloropropane	10.63	77	125318	2.91	µg/l	86
21) cis-1,2-dichloroethene	10.62	96	101492	2.99	µg/l	93
22) bromochloromethane	10.97	128	49756	2.95	µg/l #	90
23) chloroform	11.06	83	166988	2.94	µg/l	99
24) 1,1,1-trichloroethane	11.38	97	134735	2.93	µg/l	97
26) carbon tetrachloride	11.63	117	116133	2.93	µg/l	94
27) 1,1-dichloropropene	11.61	75	117070	2.84	µg/l	98
29) benzene	11.92	78	378845	3.01	µg/l	96
30) 1,2-dichloroethane	11.92	62	122716	3.01	µg/l	96
31) trichloroethene	12.80	95	94485	2.88	µg/l	95
32) 1,2-dichloropropane	13.13	63	95327	2.89	µg/l	98
33) dibromomethane	13.30	93	55680	2.92	µg/l	98
34) 2-chloroethylvinyl ether	13.83	63	74429	4.46	µg/L	94
35) bromodichloromethane	13.49	83	125292	2.91	µg/l	97
36) cis-1,3-dichloropropene	14.10	75	143718	2.87	µg/l	92
37) 4-Methyl-2-pentanone	15.43	58	72912	8.52	µg/L #	42
40) toluene	14.61	92	231898	2.91	µg/l	99
41) trans-1,3-dichloropropene	14.85	75	121035	2.83	µg/l	94
42) 1,1,2-trichloroethane	15.14	83	66833	2.95	µg/l	93
43) tetrachloroethene	15.41	166	97197	2.90	µg/l	98
44) 1,3-dichloropropane	15.40	76	136678	2.99	µg/l	90
45) 2-Hexanone	15.43	43	123005	8.61	µg/L #	90
46) dibromochloromethane	15.76	129	92005	2.84	µg/l	100
47) 1,2-dibromoethane	15.97	107	79440	3.00	µg/l	95

Data Path : E:\PUBLIC\2006\08\VJA\DATA\082006\
 Data File : 2008A.D
 Acq On : 21 Aug 2006 00:28
 Operator : WAW
 Sample : 3.0
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 8 Sample Multiplier: 1

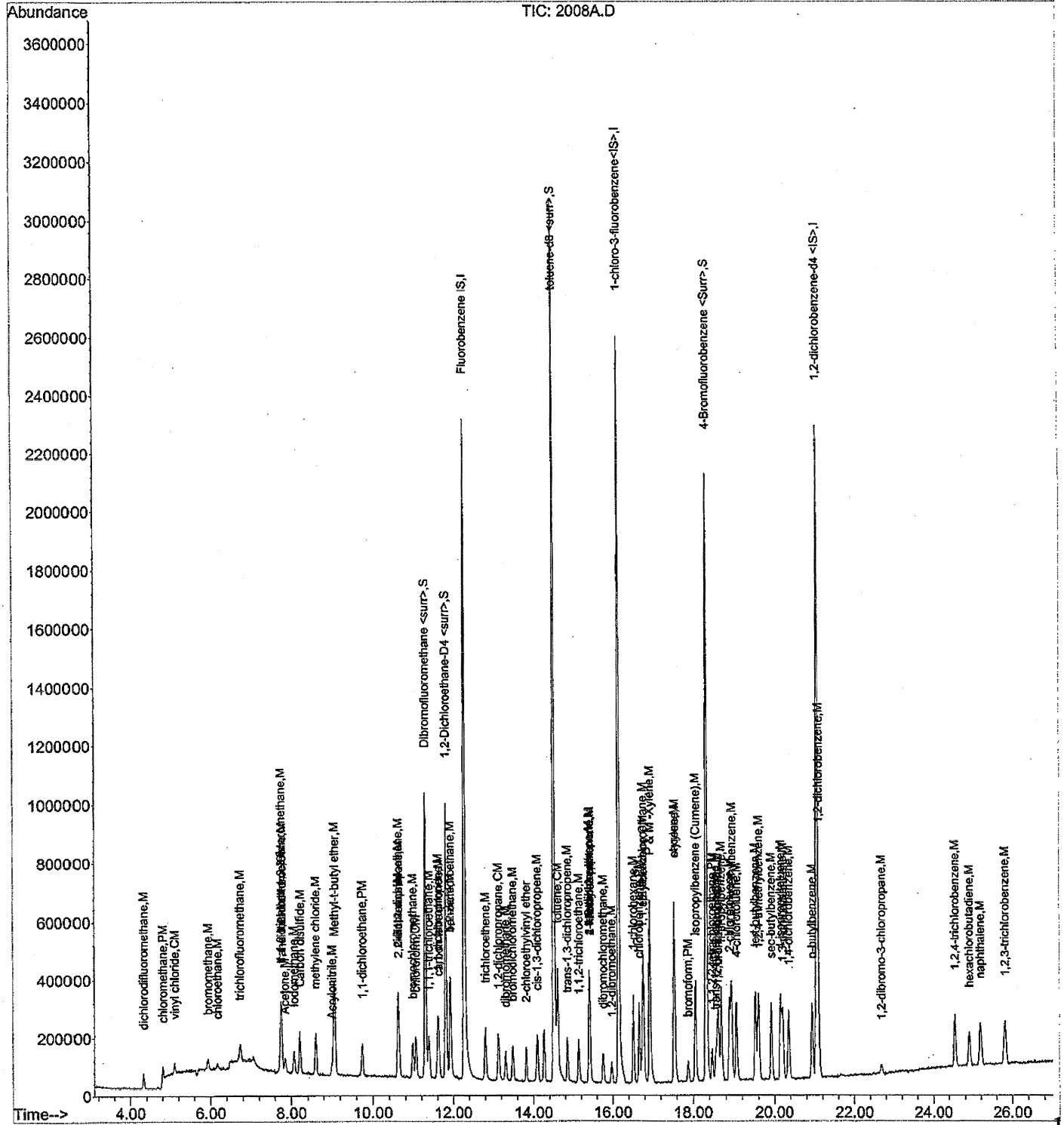
Quant Time: Aug 21 10:25:13 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 10:24:20 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1-chlorohexane	16.51	55	113839	4.21	µg/L	90
49) chlorobenzene	16.66	112	266955	2.95	µg/l	97
50) 1,1,1,2-tetrachloroethane	16.74	131	91636	2.91	µg/l	99
51) ethylbenzene	16.77	91	427161	2.90	µg/l	97
52) P & M -Xylene	16.92	106	342986	5.86	µg/l #	86
53) o-xylene	17.53	106	167711	2.90	µg/l	91
54) styrene	17.54	104	270524	2.89	µg/l	94
55) bromoform	17.87	173	53810	2.73	µg/l	97
56) Isopropylbenzene (Cumene)	18.06	105	411333	2.84	µg/l	99
59) bromobenzene	18.62	156	109911	3.00	µg/l #	74
60) 1,1,2,2-tetrachloroethane	18.47	83	89828	2.96	µg/l	96
61) 1,2,3-Trichloropropane	18.59	110	27235	3.07	µg/l #	1
62) trans-1,4-Dichloro-2-buten	18.54	53	25995	4.12	µg/L #	66
63) n-propylbenzene	18.69	91	462559	2.93	µg/l	97
64) 2-chlorotoluene	18.90	91	328644	2.99	µg/l	91
65) 4-chlorotoluene	19.06	91	299157	2.98	µg/l	99
66) 1,3,5-trimethylbenzene	18.94	105	326584	2.90	µg/l	99
67) tert-butylbenzene	19.53	119	289411	2.85	µg/l	98
68) 1,2,4-trimethylbenzene	19.61	105	314121	2.85	µg/l	97
69) sec-butylbenzene	19.92	105	378360	2.79	µg/l	96
70) 1,3-dichlorobenzene	20.21	146	197108	2.95	µg/l	98
71) 4-isopropyltoluene	20.16	119	333483	2.86	µg/l	99
72) 1,4-dichlorobenzene	20.37	146	191225	2.83	µg/l	97
73) 1,2-dichlorobenzene	21.11	146	184133	2.92	µg/l	94
74) n-butylbenzene	20.95	91	278463	2.82	µg/l	96
75) 1,2-dibromo-3-chloropropan	22.68	75	18026	3.36	µg/l #	86
76) 1,2,4-trichlorobenzene	24.55	180	123833	2.93	µg/l	98
77) hexachlorobutadiene	24.92	225	54706	2.75	µg/l	97
78) naphthalene	25.20	128	261777	3.00	µg/l	97
79) 1,2,3-trichlorobenzene	25.83	180	111145	2.67	µg/l	98

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

Data Path : E:\PUBLIC\2006\08\VJA\DATA\082006\
Data File : 2008A.D
Acq On : 21 Aug 2006 00:28
Operator : WAW
Sample : 3.0
Misc : [VJA] INIT TEMP 40
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 21 10:25:13 2006
Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
Quant Title : SGS Method 8260/524
QLast Update : Mon Aug 21 10:24:20 2006
Response via : Initial Calibration



Data Path : E:\PUBLIC\2006\08\VJA\DATA\082006\
 Data File : 2009A.D
 Acq On : 21 Aug 2006 1:01
 Operator : WAW
 Sample : 10
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 21 10:25:16 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 10:24:20 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	12.28	70	695226	30.00	µg/l	0.00
38) 1-chloro-3-fluorobenzene<I	16.15	95	1185584	30.00	µg/L	0.00
57) 1,2-dichlorobenzene-d4 <IS	21.07	152	1262177	30.00	µg/l	0.00

System Monitoring Compounds

25) Dibromofluoromethane <surr	11.29	111	919089	29.74	µg/L	0.00
Spiked Amount	30.000	Range 85 - 115	Recovery =	99.13%		
28) 1,2-Dichloroethane-D4 <sur	11.81	65	951153	29.80	µg/l	0.00
Spiked Amount	30.000	Range 72 - 119	Recovery =	99.33%		
39) toluene-d8 <surr>	14.51	98	3360073	30.05	µg/L	0.00
Spiked Amount	30.000	Range 85 - 120	Recovery =	100.17%		
58) 4-Bromofluorobenzene <Surr	18.32	95	1333824	29.94	µg/l	0.00
Spiked Amount	30.000	Range 76 - 119	Recovery =	99.80%		

Target Compounds

						Qvalue
2) dichlorodifluoromethane	4.32	85	252415	9.85	µg/l	90
3) chloromethane	4.80	50	197025	9.23	µg/l	97
4) vinyl chloride	5.10	62	158111	8.97	µg/l	99
5) bromomethane	5.93	94	121249	9.06	µg/l	96
6) chloroethane	6.16	64	92650	10.07	µg/l	96
7) trichlorofluoromethane	6.72	101	292258	9.90	µg/l	97
8) 1,1-dichloroethene	7.76	96	253061	9.64	µg/l	99
9) 1,1,2-trichloro-1,2,2-fluo	7.73	101	390057	14.65	µg/L	98
10) Acetone	7.84	58	98368	30.12	µg/L #	63
11) Iodomethane	8.05	142	525785	15.46	µg/L	94
12) Carbon disulfide	8.20	76	1134657	14.37	µg/L	99
13) methylene chloride	8.60	84	323847	9.65	µg/l	93
14) trans-1,2-dichloroethene	7.76	96	254051	9.66	µg/l	91
15) Acrylonitrile	9.00	53	146802	14.58	µg/L	93
16) Methyl-t-butyl ether	9.05	73	1188330	14.77	µg/L	96
18) 1,1-dichloroethane	9.74	63	561830	9.68	µg/l	100
19) 2-Butanone	10.60	72	92694	29.88	µg/L #	48
20) 2,2-dichloropropane	10.63	77	429103	9.74	µg/l	93
21) cis-1,2-dichloroethene	10.62	96	337718	9.73	µg/l	92
22) bromochloromethane	10.98	128	170549	9.88	µg/l #	89
23) chloroform	11.05	83	562956	9.67	µg/l	98
24) 1,1,1-trichloroethane	11.38	97	452810	9.62	µg/l	99
26) carbon tetrachloride	11.63	117	388021	9.57	µg/l	99
27) 1,1-dichloropropene	11.61	75	402627	9.53	µg/l	100
29) benzene	11.92	78	1259203	9.76	µg/l	99
30) 1,2-dichloroethane	11.92	62	412101	9.87	µg/l	97
31) trichloroethene	12.80	95	320724	9.53	µg/l	97
32) 1,2-dichloropropane	13.13	63	325640	9.64	µg/l	93
33) dibromomethane	13.30	93	187621	9.61	µg/l	96
34) 2-chloroethylvinyl ether	13.82	63	249339	14.59	µg/L	93
35) bromodichloromethane	13.48	83	420532	9.55	µg/l	98
36) cis-1,3-dichloropropene	14.10	75	484208	9.44	µg/l	92
37) 4-Methyl-2-pentanone	15.43	58	254840	29.09	µg/L #	42
40) toluene	14.61	92	807141	9.92	µg/l	97
41) trans-1,3-dichloropropene	14.85	75	423697	9.73	µg/l	93
42) 1,1,2-trichloroethane	15.14	83	231575	10.01	µg/l	97
43) tetrachloroethene	15.41	166	330258	9.68	µg/l	98
44) 1,3-dichloropropane	15.40	76	464707	9.95	µg/l	96
45) 2-Hexanone	15.43	43	432573	29.68	µg/L #	91
46) dibromochloromethane	15.76	129	316651	9.59	µg/l	98
47) 1,2-dibromoethane	15.97	107	262809	9.73	µg/l	96

Quantitation Report (Not Reviewed)

Data Path : E:\PUBLIC\2006\08\VJA\DATA\082006\
 Data File : 2009A.D
 Acq On : 21 Aug 2006 1:01
 Operator : WAW
 Sample : 10
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 21 10:25:16 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 10:24:20 2006
 Response via : Initial Calibration

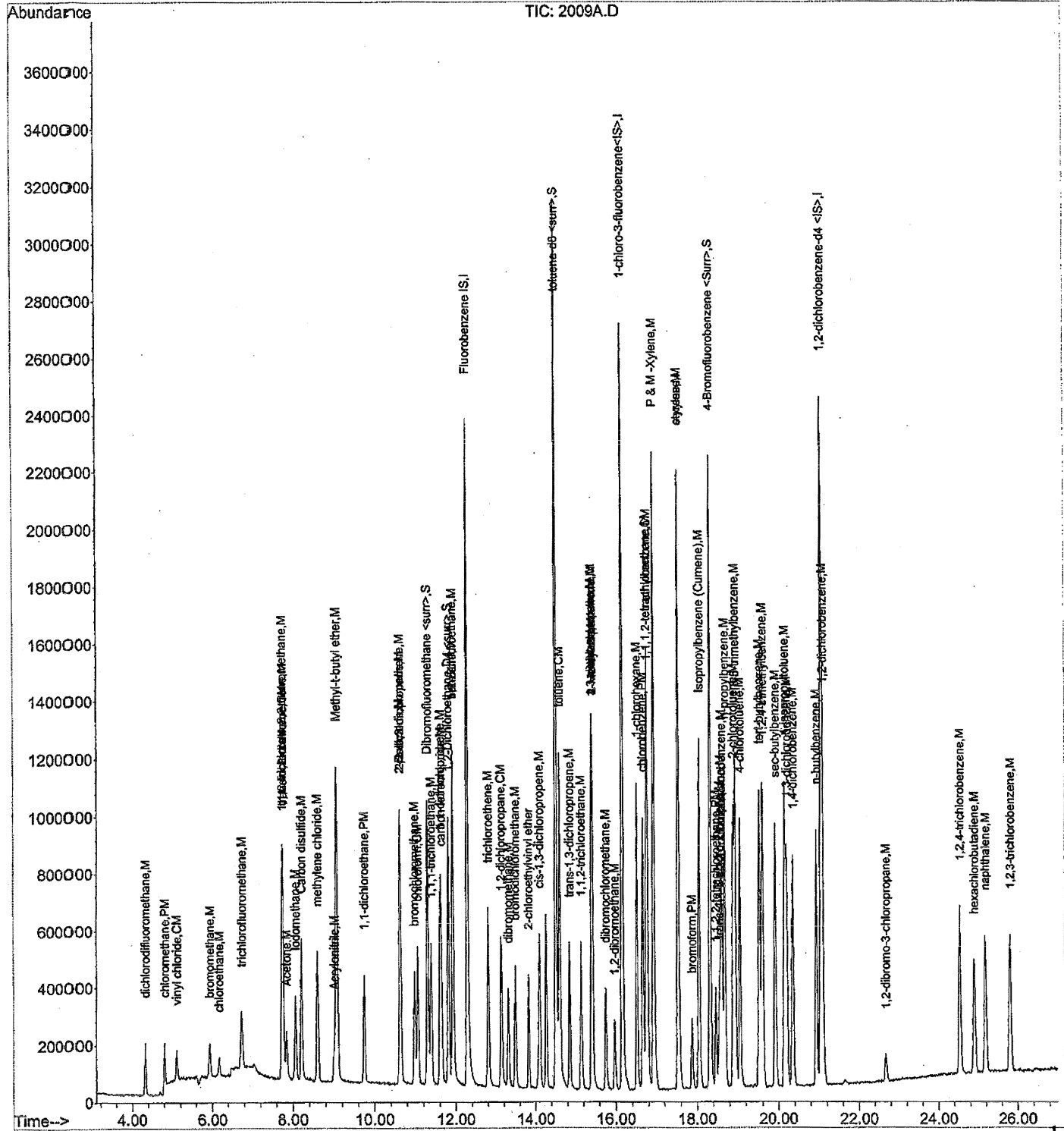
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1-chlorohexane	16.51	55	394456	14.32	µg/L	89
49) chlorobenzene	16.66	112	892803	9.68	µg/l	98
50) 1,1,1,2-tetrachloroethane	16.74	131	321398	10.01	µg/l	96
51) ethylbenzene	16.77	91	1460763	9.73	µg/l	97
52) P & M -Xylene	16.92	106	1167578	19.57	µg/l	88
53) o-xylene	17.53	106	572960	9.73	µg/l	91
54) styrene	17.54	104	940420	9.84	µg/l	95
55) bromoform	17.87	173	192184	9.55	µg/l	97
56) Isopropylbenzene (Cumene)	18.06	105	1410511	9.56	µg/l	98
59) bromobenzene	18.62	156	370744	9.72	µg/l #	83
60) 1,1,2,2-tetrachloroethane	18.47	83	298730	9.45	µg/l	97
61) 1,2,3-Trichloropropane	18.58	110	89276	9.68	µg/l #	1
62) trans-1,4-Dichloro-2-buten	18.55	53	89382	13.60	µg/L #	52
63) n-propylbenzene	18.69	91	1606657	9.77	µg/l	97
64) 2-chlorotoluene	18.90	91	1124696	9.83	µg/l	91
65) 4-chlorotoluene	19.06	91	1026247	9.82	µg/l	99
66) 1,3,5-trimethylbenzene	18.94	105	1152590	9.83	µg/l	96
67) tert-butylbenzene	19.53	119	1005514	9.52	µg/l	96
68) 1,2,4-trimethylbenzene	19.61	105	1131233	9.85	µg/l	97
69) sec-butylbenzene	19.92	105	1319345	9.37	µg/l	97
70) 1,3-dichlorobenzene	20.21	146	672826	9.68	µg/l	97
71) 4-isopropyltoluene	20.15	119	1178897	9.70	µg/l	98
72) 1,4-dichlorobenzene	20.36	146	657986	9.35	µg/l	98
73) 1,2-dichlorobenzene	21.11	146	639990	9.75	µg/l	99
74) n-butylbenzene	20.95	91	989888	9.62	µg/l	97
75) 1,2-dibromo-3-chloropropan	22.69	75	52156	9.35	µg/l	98
76) 1,2,4-trichlorobenzene	24.55	180	412257	9.37	µg/l	99
77) hexachlorobutadiene	24.91	225	187236	9.06	µg/l	95
78) naphthalene	25.20	128	858135	9.44	µg/l	98
79) 1,2,3-trichlorobenzene	25.83	180	374646	8.66	µg/l	100

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

Quantitation Report (Not Reviewed)

Data Path : E:\PUBLIC\2006\08\VJA\DATA\082006\
 Data File : 2009A.D
 Acq On : 21 Aug 2006 1:01
 Operator : WAW
 Sample : 10
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 21 10:25:16 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 10:24:20 2006
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : E:\PUBLIC\2006\08\VJA\DATA\082006\
 Data File : 2010A.D
 Acq On : 21 Aug 2006 1:35
 Operator : WAW
 Sample : 30
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 10:25:18 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 10:24:20 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	12.28	70	705715	30.00	µg/l	0.00
38) 1-chloro-3-fluorobenzene<I	16.15	95	1225905	30.00	µg/L	0.00
57) 1,2-dichlorobenzene-d4 <IS	21.07	152	1328850	30.00	µg/l	0.00

System Monitoring Compounds

25) Dibromofluoromethane <surr	11.29	111	935939	29.84	µg/L	0.00
Spiked Amount	30.000	Range	85 - 115	Recovery	=	99.47%
28) 1,2-Dichloroethane-D4 <sur	11.81	65	970147	29.94	µg/l	0.00
Spiked Amount	30.000	Range	72 - 119	Recovery	=	99.80%
39) toluene-d8 <surr>	14.51	98	3437815	29.73	µg/L	0.00
Spiked Amount	30.000	Range	85 - 120	Recovery	=	99.10%
58) 4-Bromofluorobenzene <Surr	18.32	95	1392600	29.69	µg/l	0.00
Spiked Amount	30.000	Range	76 - 119	Recovery	=	98.97%

Target Compounds

						Qvalue
2) dichlorodifluoromethane	4.32	85	789397	30.36	µg/l	91
3) chloromethane	4.81	50	631472	29.14	µg/l	97
4) vinyl chloride	5.10	62	521434	29.15	µg/l	99
5) bromomethane	5.92	94	385074	28.36	µg/l	98
6) chloroethane	6.16	64	273638	29.29	µg/l	97
7) trichlorofluoromethane	6.72	101	910228	30.39	µg/l	99
8) 1,1-dichloroethene	7.76	96	794820	29.82	µg/l	99
9) 1,1,2-trichloro-1,2,2-fluo	7.73	101	1235825	45.74	µg/L	98
10) Acetone	7.84	58	305206	92.05	µg/L #	60
11) Iodomethane	8.05	142	1778647	51.52	µg/L	93
12) Carbon disulfide	8.20	76	3568618	44.53	µg/L	100
13) methylene chloride	8.60	84	1015614	29.81	µg/l	92
14) trans-1,2-dichloroethene	7.76	96	796120	29.83	µg/l	90
15) Acrylonitrile	9.00	53	464686	45.48	µg/L	94
16) Methyl-t-butyl ether	9.05	73	3716993	45.52	µg/L	96
18) 1,1-dichloroethane	9.74	63	1778323	30.20	µg/l	99
19) 2-Butanone	10.60	72	292802	92.98	µg/L #	49
20) 2,2-dichloropropane	10.63	77	1338597	29.93	µg/l	92
21) cis-1,2-dichloroethene	10.62	96	1042439	29.59	µg/l	92
22) bromochloromethane	10.97	128	528084	30.13	µg/l #	90
23) chloroform	11.05	83	1759867	29.78	µg/l	98
24) 1,1,1-trichloroethane	11.38	97	1447839	30.31	µg/l	98
26) carbon tetrachloride	11.63	117	1258273	30.57	µg/l	98
27) 1,1-dichloropropene	11.61	75	1296437	30.22	µg/l	100
29) benzene	11.92	78	3912999	29.89	µg/l	99
30) 1,2-dichloroethane	11.92	62	1275095	30.08	µg/l	97
31) trichloroethene	12.80	95	1009412	29.56	µg/l	98
32) 1,2-dichloropropane	13.13	63	1020116	29.75	µg/l	94
33) dibromomethane	13.30	93	590474	29.80	µg/l	96
34) 2-chloroethylvinyl ether	13.82	63	798955	46.06	µg/L	92
35) bromodichloromethane	13.48	83	1335936	29.89	µg/l	98
36) cis-1,3-dichloropropene	14.10	75	1562985	30.02	µg/l	93
37) 4-Methyl-2-pentanone	15.43	58	826497	92.95	µg/L #	42
40) toluene	14.61	92	2538964	30.17	µg/l	96
41) trans-1,3-dichloropropene	14.85	75	1357302	30.13	µg/l	93
42) 1,1,2-trichloroethane	15.14	83	719268	30.07	µg/l	96
43) tetrachloroethene	15.42	166	1064179	30.16	µg/l	98
44) 1,3-dichloropropane	15.40	76	1446912	29.97	µg/l	97
45) 2-Hexanone	15.43	43	1389035	92.18	µg/L #	90
46) dibromochloromethane	15.76	129	1033575	30.29	µg/l	99
47) 1,2-dibromoethane	15.97	107	826151	29.59	µg/l	95

Quantitation Report (Not Reviewed)

Data Path : E:\PUBLIC\2006\08\VJA\DATA\082006\
 Data File : 2010A.D
 Acq On : 21 Aug 2006 1:35
 Operator : WAW
 Sample : 30
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 10:25:18 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 10:24:20 2006
 Response via : Initial Calibration

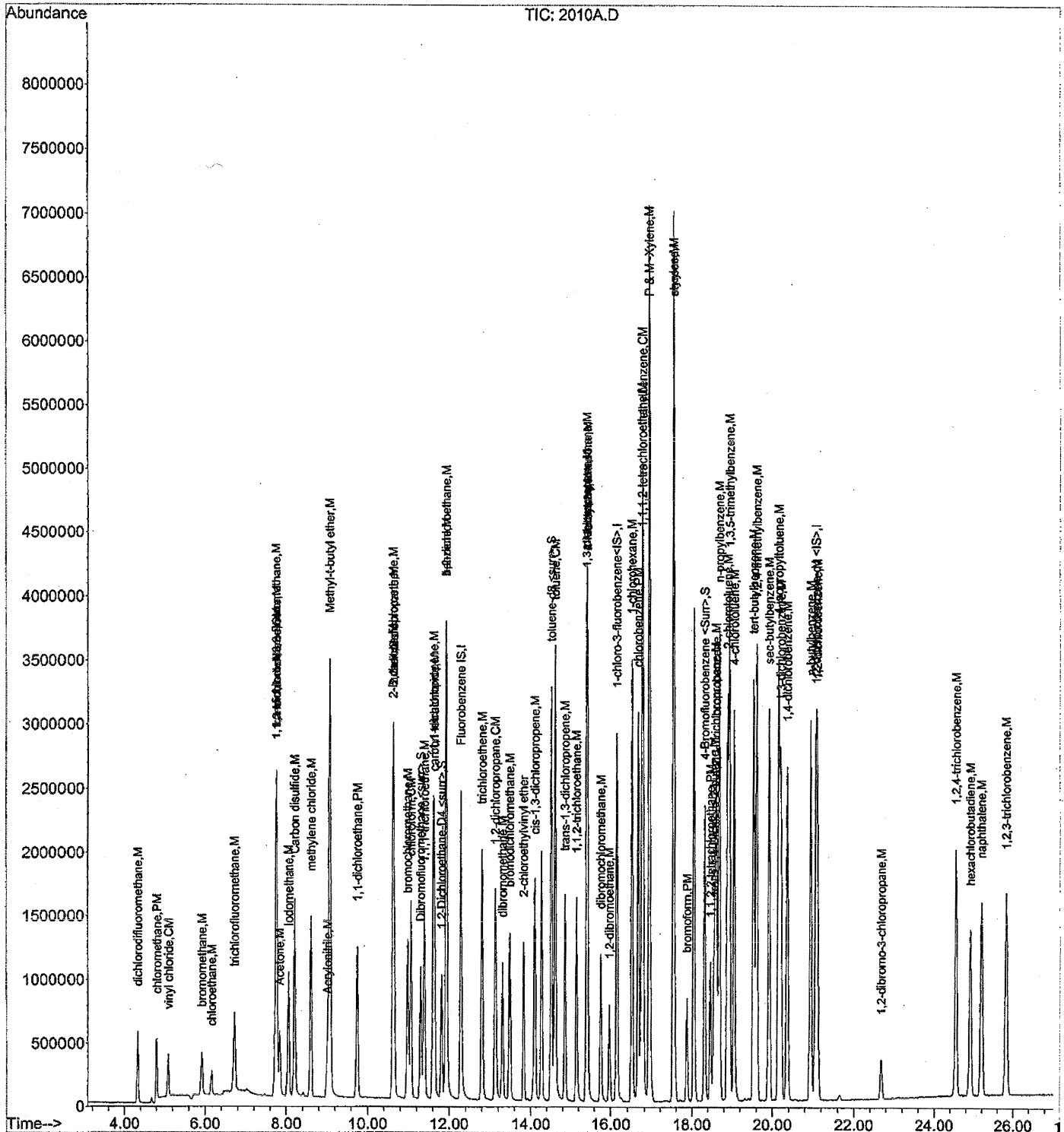
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1-chlorohexane	16.51	55	1293092	45.39	µg/L	89
49) chlorobenzene	16.66	112	2812898	29.51	µg/l	98
50) 1,1,1,2-tetrachloroethane	16.74	131	1002893	30.21	µg/l	98
51) ethylbenzene	16.77	91	4578171	29.50	µg/l	96
52) P & M -Xylene	16.92	106	3657268	59.27	µg/l #	86
53) o-xylene	17.53	106	1827518	30.01	µg/l	89
54) styrene	17.54	104	3008173	30.45	µg/l	96
55) bromoform	17.88	173	634328	30.49	µg/l	97
59) bromobenzene	18.62	156	1194919	29.77	µg/l #	82
60) 1,1,2,2-tetrachloroethane	18.47	83	947807	28.47	µg/l	97
61) 1,2,3-Trichloropropane	18.59	110	286683	29.53	µg/l #	1
62) trans-1,4-Dichloro-2-buten	18.55	53	297572	43.02	µg/L #	52
63) n-propylbenzene	18.69	91	5156891	29.78	µg/l	98
64) 2-chlorotoluene	18.90	91	3569049	29.64	µg/l	92
65) 4-chlorotoluene	19.06	91	3280548	29.80	µg/l	98
66) 1,3,5-trimethylbenzene	18.94	105	3750131	30.38	µg/l	95
67) tert-butylbenzene	19.53	119	3181370	28.61	µg/l	97
68) 1,2,4-trimethylbenzene	19.61	105	3720483	30.78	µg/l	97
69) sec-butylbenzene	19.92	105	4308214	29.05	µg/l	97
70) 1,3-dichlorobenzene	20.21	146	2157774	29.49	µg/l	98
71) 4-isopropyltoluene	20.15	119	3888217	30.40	µg/l	97
72) 1,4-dichlorobenzene	20.36	146	2146251	28.96	µg/l	98
73) 1,2-dichlorobenzene	21.11	146	2069081	29.93	µg/l	99
74) n-butylbenzene	20.95	91	3274174	30.22	µg/l	96
75) 1,2-dibromo-3-chloropropan	22.68	75	159953	27.24	µg/l	90
76) 1,2,4-trichlorobenzene	24.55	180	1357021	29.29	µg/l	100
77) hexachlorobutadiene	24.92	225	601279	27.62	µg/l	98
78) naphthalene	25.20	128	2779214	29.03	µg/l	98
79) 1,2,3-trichlorobenzene	25.82	180	1218549	26.75	µg/l	99

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

Quantitation Report (Not Reviewed)

Data Path : E:\PUBLIC\2006\08\VJA\DATA\082006\
 Data File : 2010A.D
 Acq On : 21 Aug 2006 1:35
 Operator : WAW
 Sample : 30
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 21 10:25:18 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 10:24:20 2006
 Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : E:\PUBLIC\2006\08\VJA\DATA\082006\
 Data File : 2011A.D
 Acq On : 21 Aug 2006 2:08
 Operator : WAW
 Sample : 50
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 10:25:22 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 10:24:20 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	12.28	70	712480	30.00	µg/l	0.00
38) 1-chloro-3-fluorobenzene<I	16.15	95	1236668	30.00	µg/L	0.00
57) 1,2-dichlorobenzene-d4 <IS	21.07	152	1336698	30.00	µg/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Dibromofluoromethane <surr	11.29	111	947088	29.91	µg/L	0.00
Spiked Amount	30.000	Range 85 - 115	Recovery =	99.70%		
28) 1,2-Dichloroethane-D4 <sur	11.81	65	971600	29.70	µg/l	0.00
Spiked Amount	30.000	Range 72 - 119	Recovery =	99.00%		
39) toluene-d8 <surr>	14.51	98	3454226	29.61	µg/L	0.00
Spiked Amount	30.000	Range 85 - 120	Recovery =	98.70%		
58) 4-Bromofluorobenzene <Surr	18.32	95	1395647	29.58	µg/l	0.00
Spiked Amount	30.000	Range 76 - 119	Recovery =	98.60%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) dichlorodifluoromethane	4.32	85	1286293	49.00	µg/l	91
3) chloromethane	4.80	50	1097377	50.15	µg/l	97
4) vinyl chloride	5.10	62	891914	49.39	µg/l	98
5) bromomethane	5.92	94	681491	49.71	µg/l	99
6) chloroethane	6.16	64	471177	49.95	µg/l	96
7) trichlorofluoromethane	6.72	101	1575800	52.11	µg/l	99
8) 1,1-dichloroethene	7.76	96	1333473	49.55	µg/l	99
9) 1,1,2-trichloro-1,2,2-fluo	7.73	101	2003062	73.43	µg/L	98
10) Acetone	7.84	58	495541	148.04	µg/L #	61
11) Iodomethane	8.05	142	3024199	86.77	µg/L	93
12) Carbon disulfide	8.20	76	5987755	74.00	µg/L	100
13) methylene chloride	8.60	84	1728262	50.24	µg/l	91
14) trans-1,2-dichloroethene	7.76	96	1334667	49.54	µg/l	91
15) Acrylonitrile	9.00	53	767584	74.40	µg/L	95
16) Methyl-t-butyl ether	9.05	73	6186457	75.05	µg/L	96
18) 1,1-dichloroethane	9.74	63	3014939	50.71	µg/l	99
19) 2-Butanone	10.60	72	484029	152.25	µg/L #	48
20) 2,2-dichloropropane	10.63	77	2253469	49.90	µg/l	92
21) cis-1,2-dichloroethene	10.61	96	1777902	49.98	µg/l	93
22) bromochloromethane	10.97	128	895208	50.59	µg/l #	89
23) chloroform	11.05	83	2984199	50.01	µg/l	98
24) 1,1,1-trichloroethane	11.38	97	2428188	50.34	µg/l	99
26) carbon tetrachloride	11.63	117	2099304	50.51	µg/l	98
27) 1,1-dichloropropene	11.60	75	2159870	49.88	µg/l	100
29) benzene	11.92	78	6542756	49.50	µg/l	100
30) 1,2-dichloroethane	11.92	62	2129274	49.76	µg/l	96
31) trichloroethene	12.80	95	1738199	50.41	µg/l	98
32) 1,2-dichloropropane	13.13	63	1707837	49.34	µg/l	94
33) dibromomethane	13.30	93	992927	49.63	µg/l	96
34) 2-chloroethylvinyl ether	13.82	63	1327510	75.81	µg/L	92
35) bromodichloromethane	13.48	83	2258609	50.05	µg/l	97
36) cis-1,3-dichloropropene	14.10	75	2640720	50.23	µg/l	92
37) 4-Methyl-2-pentanone	15.43	58	1408722	156.92	µg/L #	41
40) toluene	14.61	92	4264573	50.24	µg/l	95
41) trans-1,3-dichloropropene	14.85	75	2301333	50.65	µg/l	93
42) 1,1,2-trichloroethane	15.14	83	1201973	49.80	µg/l	95
43) tetrachloroethene	15.41	166	1790351	50.29	µg/l	99
44) 1,3-dichloropropane	15.40	76	2371750	48.70	µg/l	96
45) 2-Hexanone	15.43	43	2346101	154.33	µg/L #	90
46) dibromochloromethane	15.76	129	1771060	51.44	µg/l	99
47) 1,2-dibromoethane	15.97	107	1380457	49.01	µg/l	96

Quantitation Report (Not Reviewed)

Data Path : E:\PUBLIC\2006\08\VJA\DATA\082006\
 Data File : 2011A.D
 Acq On : 21 Aug 2006 2:08
 Operator : WAW
 Sample : 50
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 10:25:22 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 10:24:20 2006
 Response via : Initial Calibration

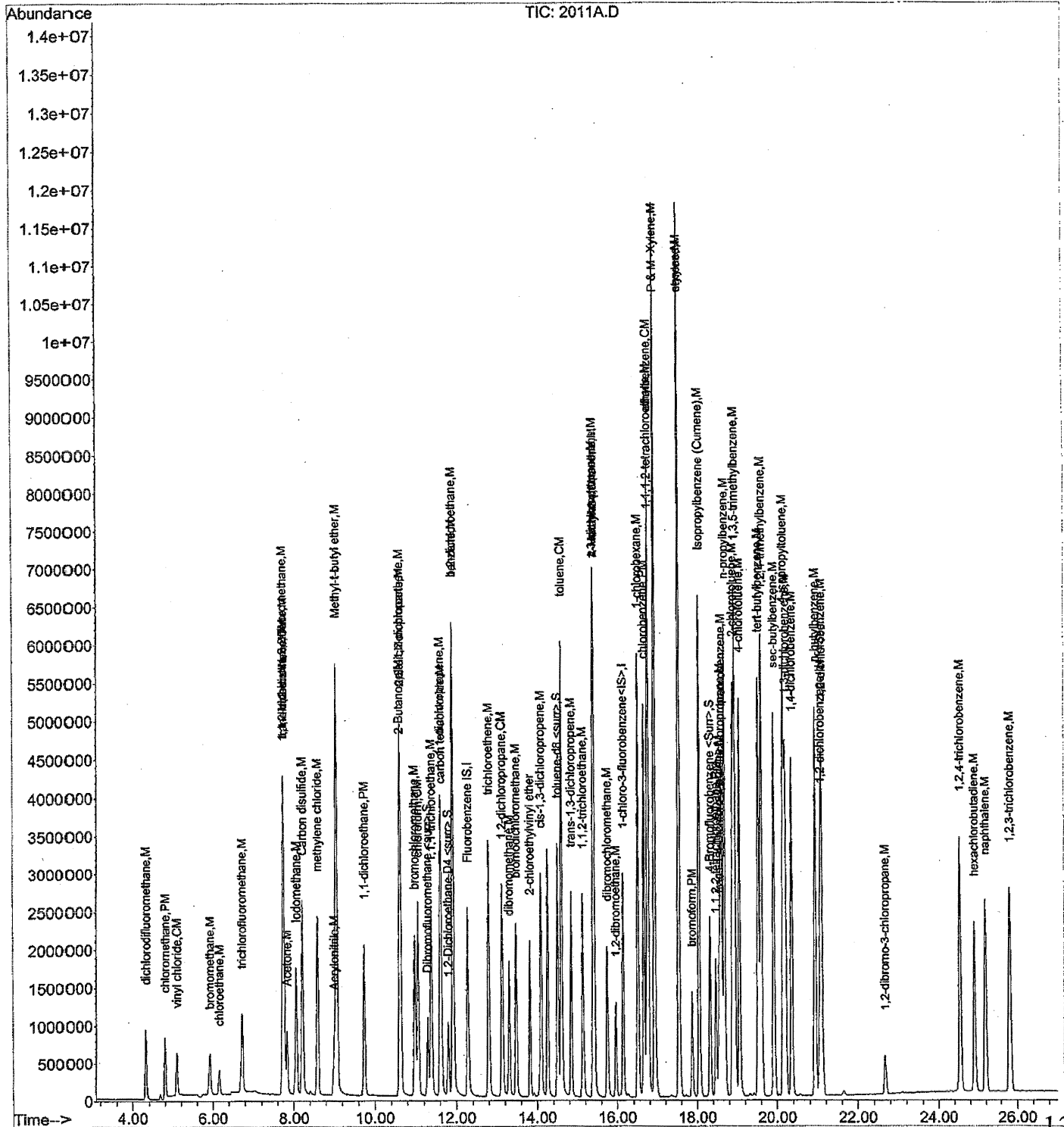
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1-chlorohexane	16.51	55	2139649	74.45	µg/L	88
49) chlorobenzene	16.66	112	4725860	49.15	µg/l	98
50) 1,1,1,2-tetrachloroethane	16.74	131	1691742	50.52	µg/l	98
51) ethylbenzene	16.77	91	7679341	49.05	µg/l	95
52) P & M -Xylene	16.92	106	6074207	97.58	µg/l #	85
53) o-xylene	17.53	106	3061887	49.85	µg/l	89
54) styrene	17.54	104	5076627	50.94	µg/l	96
55) bromoform	17.87	173	1088910	51.89	µg/l	96
56) Isopropylbenzene (Cumene)	18.05	105	7436263	48.33	µg/l	96
59) bromobenzene	18.62	156	2028239	50.23	µg/l #	84
60) 1,1,2,2-tetrachloroethane	18.47	83	1583277	47.28	µg/l	96
61) 1,2,3-Trichloropropane	18.59	110	476744	48.82	µg/l #	1
62) trans-1,4-Dichloro-2-buten	18.55	53	514719	73.97	µg/L #	51
63) n-propylbenzene	18.69	91	8629441	49.55	µg/l	98
64) 2-chlorotoluene	18.90	91	6057171	50.01	µg/l	92
65) 4-chlorotoluene	19.06	91	5498758	49.66	µg/l	97
66) 1,3,5-trimethylbenzene	18.94	105	6328080	50.96	µg/l	95
67) tert-butylbenzene	19.53	119	5349920	47.83	µg/l	97
68) 1,2,4-trimethylbenzene	19.61	105	6308377	51.89	µg/l	96
69) sec-butylbenzene	19.92	105	7172728	48.08	µg/l	97
70) 1,3-dichlorobenzene	20.21	146	3675818	49.95	µg/l	98
71) 4-isopropyltoluene	20.15	119	6546828	50.89	µg/l	97
72) 1,4-dichlorobenzene	20.36	146	3668715	49.21	µg/l	98
73) 1,2-dichlorobenzene	21.10	146	3522650	50.66	µg/l	98
74) n-butylbenzene	20.95	91	5583961	51.24	µg/l	96
75) 1,2-dibromo-3-chloropropan	22.68	75	275798	46.69	µg/l	92
76) 1,2,4-trichlorobenzene	24.55	180	2367232	50.79	µg/l	99
77) hexachlorobutadiene	24.92	225	1039842	47.49	µg/l	97
78) naphthalene	25.20	128	4694243	48.75	µg/l	98
79) 1,2,3-trichlorobenzene	25.82	180	2114253	46.15	µg/l	99

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

Quantitation Report (Not Reviewed)

Data Path : E:\PUBLIC\2006\08\VJA\DATA\082006\
 Data File : 2011A.D
 Acq On : 21 Aug 2006 2:08
 Operator : WAW
 Sample : 50
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 21 10:25:22 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 10:24:20 2006
 Response via : Initial Calibration



Data Path : E:\PUBLIC\2006\08\VJA\DATA\082006\
 Data File : 2012A.D
 Acq On : 21 Aug 2006 2:41
 Operator : WAW
 Sample : 70
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 10:25:25 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 10:24:20 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene IS	12.28	70	733062	30.00	µg/l	0.00
38) 1-chloro-3-fluorobenzene<I	16.15	95	1244427	30.00	µg/L	0.00
57) 1,2-dichlorobenzene-d4 <IS	21.07	152	1373581	30.00	µg/l	0.00

System Monitoring Compounds

25) Dibromofluoromethane <surr	11.29	111	969372	29.75	µg/L	0.00
Spiked Amount	30.000	Range 85 - 115	Recovery =	99.17%		
28) 1,2-Dichloroethane-D4 <sur	11.81	65	980697	29.14	µg/l	0.00
Spiked Amount	30.000	Range 72 - 119	Recovery =	97.13%		
39) toluene-d8 <surr>	14.51	98	3532662	30.10	µg/L	0.00
Spiked Amount	30.000	Range 85 - 120	Recovery =	100.33%		
58) 4-Bromofluorobenzene <Surr	18.32	95	1429848	29.49	µg/l	0.00
Spiked Amount	30.000	Range 76 - 119	Recovery =	98.30%		

Target Compounds

						Qvalue
2) dichlorodifluoromethane	4.32	85	1899678	70.33	µg/l	91
3) chloromethane	4.81	50	1597422	70.96	µg/l	97
4) vinyl chloride	5.10	62	1269960	68.35	µg/l	97
5) bromomethane	5.90	94	966860	68.55	µg/l	99
6) chloroethane	6.16	64	675976	69.65	µg/l	97
7) trichlorofluoromethane	6.72	101	2096756	67.39	µg/l	99
8) 1,1-dichloroethene	7.76	96	1899852	68.61	µg/l	99
9) 1,1,2-trichloro-1,2,2-fluo	7.73	101	2949261	105.08	µg/L	98
10) Acetone	7.84	58	689934	200.33	µg/L #	58
11) Iodomethane	8.05	142	4128688	115.14	µg/L	93
12) Carbon disulfide	8.20	76	8425902	101.21	µg/L	100
13) methylene chloride	8.60	84	2436055	68.83	µg/l	91
14) trans-1,2-dichloroethene	7.76	96	1899852	68.54	µg/l	92
15) Acrylonitrile	9.00	53	1108547	104.44	µg/L	96
16) Methyl-t-butyl ether	9.05	73	8691557	102.48	µg/L	96
18) 1,1-dichloroethane	9.74	63	4210977	68.84	µg/l	100
19) 2-Butanone	10.60	72	683321	208.90	µg/L #	46
20) 2,2-dichloropropane	10.63	77	3154129	67.89	µg/l	92
21) cis-1,2-dichloroethene	10.62	96	2495105	68.17	µg/l	94
22) bromochloromethane	10.97	128	1276027	70.09	µg/l #	89
23) chloroform	11.05	83	4185418	68.18	µg/l	97
24) 1,1,1-trichloroethane	11.38	97	3421022	68.94	µg/l	99
26) carbon tetrachloride	11.63	117	2999868	70.16	µg/l	98
27) 1,1-dichloropropene	11.61	75	3048633	68.42	µg/l	99
29) benzene	11.92	78	9028641	66.39	µg/l	100
30) 1,2-dichloroethane	11.92	62	2979440	67.67	µg/l	97
31) trichloroethene	12.80	95	2425720	68.38	µg/l	98
32) 1,2-dichloropropane	13.13	63	2429396	68.21	µg/l	93
33) dibromomethane	13.30	93	1413777	68.68	µg/l	97
34) 2-chloroethylvinyl ether	13.82	63	1894959	105.17	µg/L	92
35) bromodichloromethane	13.48	83	3222340	69.40	µg/l	98
36) cis-1,3-dichloropropene	14.10	75	3736926	69.09	µg/l	92
37) 4-Methyl-2-pentanone	15.43	58	1947827	210.89	µg/L #	41
40) toluene	14.61	92	5887429	68.92	µg/l	95
41) trans-1,3-dichloropropene	14.85	75	3273307	71.59	µg/l	93
42) 1,1,2-trichloroethane	15.14	83	1735064	71.45	µg/l	96
43) tetrachloroethene	15.41	166	2537996	70.85	µg/l	99
44) 1,3-dichloropropane	15.40	76	3370155	68.77	µg/l	97
45) 2-Hexanone	15.43	43	3215682	210.22	µg/L #	89
46) dibromochloromethane	15.76	129	2555584	73.77	µg/l	99
47) 1,2-dibromoethane	15.97	107	1970242	69.51	µg/l	96

Quantitation Report (Not Reviewed)

Data Path : E:\PUBLIC\2006\08\VJA\DATA\082006\
 Data File : 2012A.D
 Acq On : 21 Aug 2006 2:41
 Operator : WAW
 Sample : 70
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 12 Sample Multiplier: 1

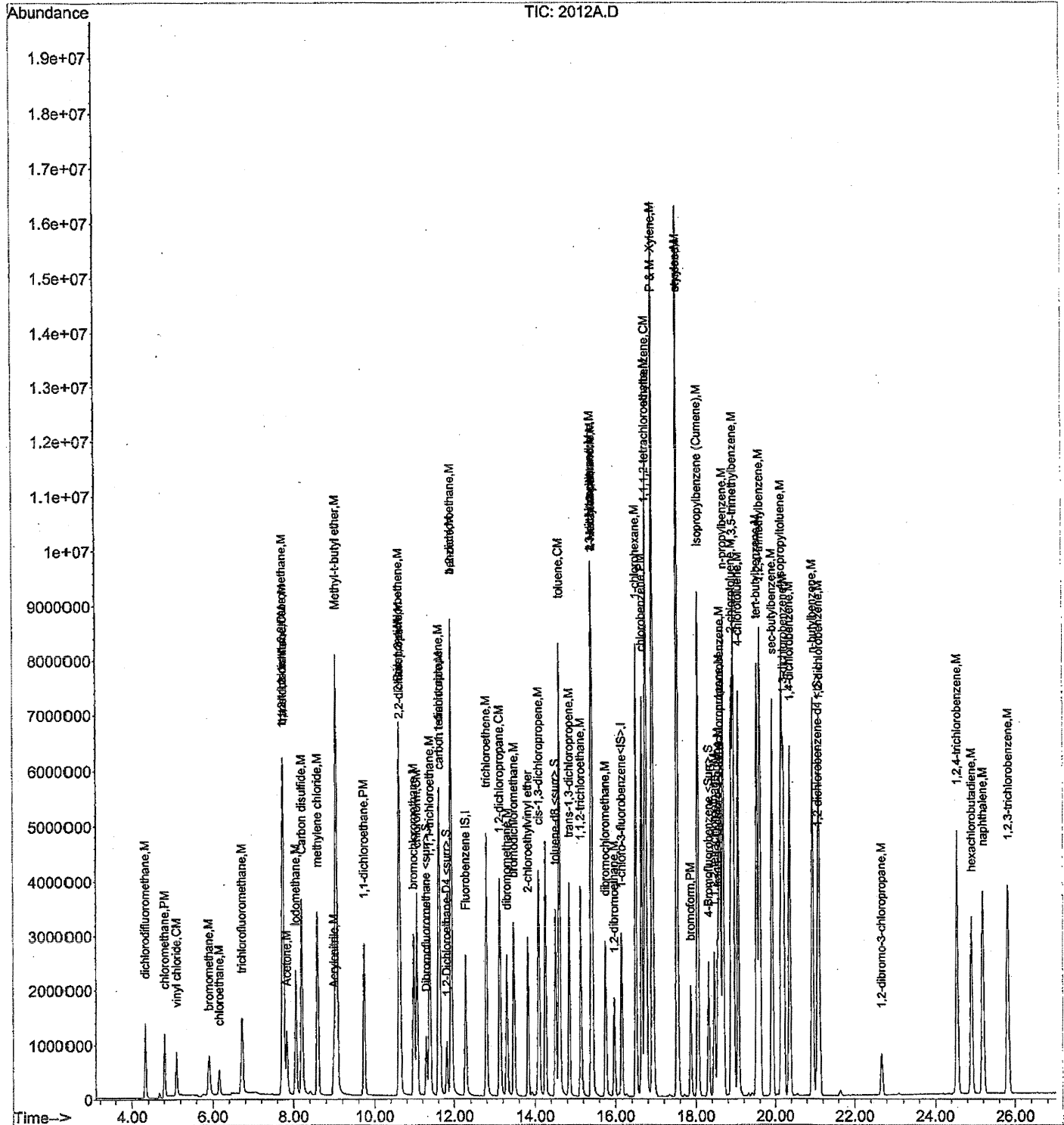
Quant Time: Aug 21 10:25:25 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 10:24:20 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1-chlorohexane	16.51	55	3041289	105.17	µg/L	88
49) chlorobenzene	16.66	112	6609236	68.30	µg/l	98
50) 1,1,1,2-tetrachloroethane	16.74	131	2386694	70.83	µg/l	98
51) ethylbenzene	16.77	91	10557516	67.01	µg/l	94
52) P & M -Xylene	16.92	106	8377900	133.75	µg/l #	83
53) o-xylene	17.53	106	4225590	68.36	µg/l	88
54) styrene	17.54	104	7021499	70.02	µg/l	95
55) bromoform	17.88	173	1578555	74.76	µg/l	95
56) Isopropylbenzene (Cumene)	18.05	105	10339969	66.79	µg/l	95
59) bromobenzene	18.62	156	2889698	69.65	µg/l #	85
60) 1,1,2,2-tetrachloroethane	18.47	83	2297338	66.77	µg/l	97
61) 1,2,3-Trichloropropane	18.59	110	683153	68.08	µg/l #	1
62) trans-1,4-Dichloro-2-buten	18.55	53	741694	103.73	µg/L #	49
63) n-propylbenzene	18.69	91	11971012	66.89	µg/l	99
64) 2-chlorotoluene	18.89	91	8415225	67.61	µg/l	93
65) 4-chlorotoluene	19.06	91	7722515	67.87	µg/l	97
66) 1,3,5-trimethylbenzene	18.94	105	8810908	69.05	µg/l	94
67) tert-butylbenzene	19.53	119	7589465	66.03	µg/l	97
68) 1,2,4-trimethylbenzene	19.61	105	8807458	70.50	µg/l	96
69) sec-butylbenzene	19.92	105	10119111	66.00	µg/l	98
70) 1,3-dichlorobenzene	20.21	146	5195141	68.70	µg/l	98
71) 4-isopropyltoluene	20.15	119	9261475	70.05	µg/l	97
72) 1,4-dichlorobenzene	20.36	146	5215061	68.08	µg/l	98
73) 1,2-dichlorobenzene	21.10	146	5004751	70.05	µg/l	99
74) n-butylbenzene	20.95	91	7976266	71.23	µg/l	95
75) 1,2-dibromo-3-chloropropan	22.67	75	402362	66.29	µg/l	92
76) 1,2,4-trichlorobenzene	24.55	180	3404077	71.08	µg/l	100
77) hexachlorobutadiene	24.92	225	1508528	67.05	µg/l	97
78) naphthalene	25.20	128	6808347	68.81	µg/l	98
79) 1,2,3-trichlorobenzene	25.83	180	3070084	65.21	µg/l	99

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

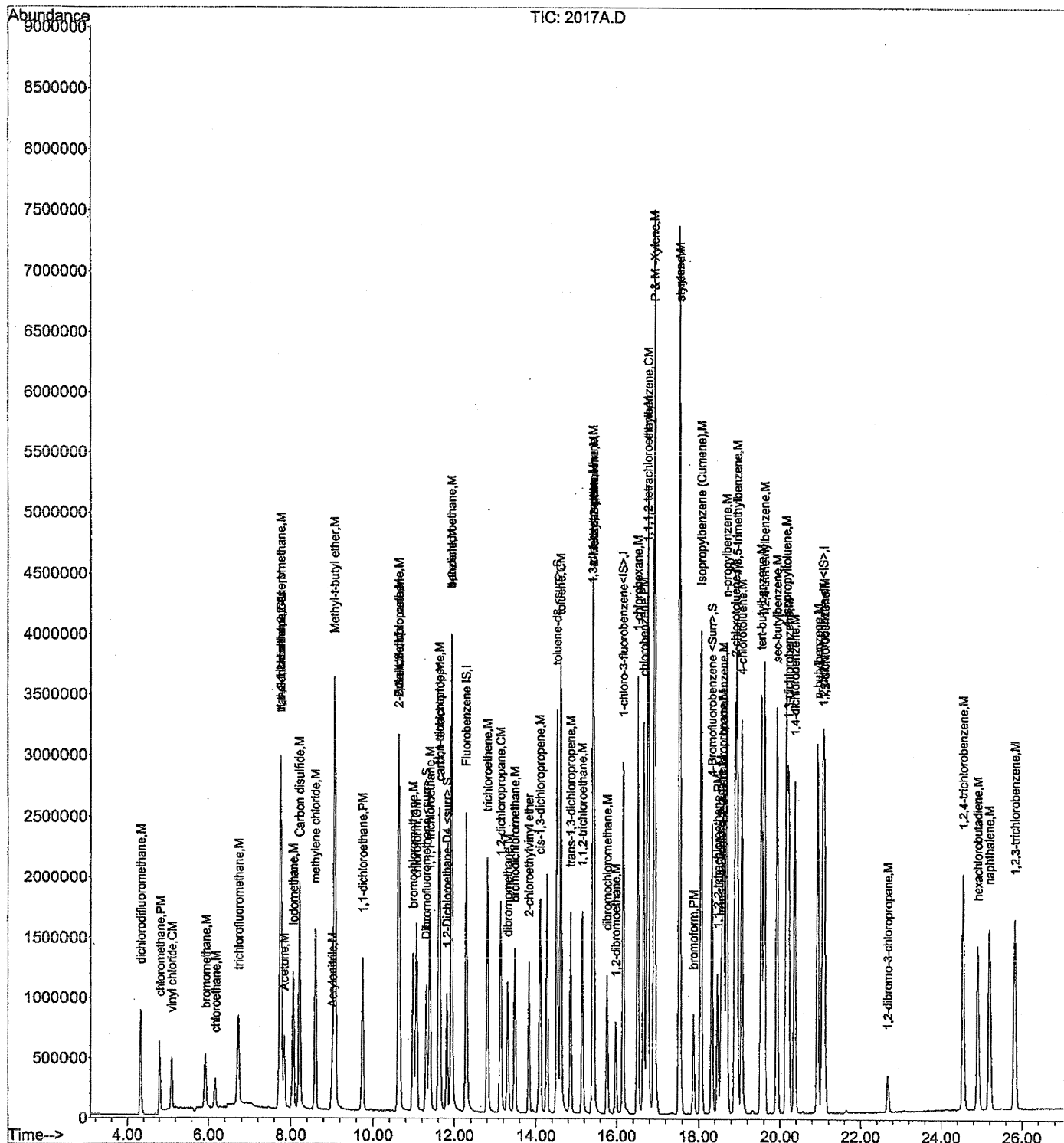
Data Path : E:\PUBLIC\2006\08\VJA\DATA\082006\
 Data File : 2012A.D
 Acq On : 21 Aug 2006 2:41
 Operator : WAW
 Sample : 70
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 21 10:25:25 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 10:24:20 2006
 Response via : Initial Calibration



Data Path : E:\PUBLIC\2006\08\VJA\DATA\082006\
 Data File : 2017A.D
 Acq On : 21 Aug 2006 5:28
 Operator : WAW
 Sample : ICV
 Misc : [VJA] INIT TEMP 40
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 21 10:28:37 2006
 Quant Method : E:\PUBLIC\2006\07\VJA\METHOD\VJA_8260_0820.M
 Quant Title : SGS Method 8260/524
 QLast Update : Mon Aug 21 10:27:33 2006
 Response via : Initial Calibration



Injection Log

Directory: d:\public\2006\08\vj\data\082006

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	2001.d	1.	TEST	[VJA]	20 Aug 06 10:42
2	1	2001a.d	1.	R	[VJA] INIT TEMP 40	20 Aug 06 20:33
3	2	2002.d	1.	TEST	[VJA] INIT TEMP 50	20 Aug 06 12:25
4	2	2002a.d	1.	R	[VJA] INIT TEMP 40	20 Aug 06 21:07
5	3	2003.d	1.	TEST	[VJA] INIT TEMP 40/FINAL 200	
6	3	2003a.d	1.	R	[VJA] INIT TEMP 40	20 Aug 06 13:17
7	1	2004.d	1.	TEST 1.0	[VJA] INIT TEMP 40/FINAL 200	20 Aug 06 21:40
8	4	2004a.d	1.	R	[VJA] INIT TEMP 40	20 Aug 06 14:17
9	2	2005.d	1.	TEST 1.0	[VJA]	20 Aug 06 22:14
10	5	2005a.d	1.	IB	[VJA] INIT TEMP 40	20 Aug 06 14:51
11	3	2006.d	1.	TEST 30	[VJA]	20 Aug 06 22:47
12	6	2006a.d	1.	0.4	[VJA] INIT TEMP 40	20 Aug 06 15:25
13	4	2007.d	1.	TEST 30	[VJA]	20 Aug 06 23:21
14	7	2007a.d	1.	1.0	[VJA] INIT TEMP 40	20 Aug 06 15:58
15	5	2008.d	1.	TEST 30	[VJA]	20 Aug 06 23:54
16	8	2008a.d	1.	3.0	[VJA] INIT TEMP 40	20 Aug 06 16:32
17	6	2009.d	1.	TEST 30	[VJA]	21 Aug 06 00:28
18	9	2009a.d	1.	10	[VJA] INIT TEMP 40	20 Aug 06 17:05
19	1	2010.d	1.	TEST 1	[VJA]	21 Aug 06 01:01
20	10	2010a.d	1.	30	[VJA] INIT TEMP 40	20 Aug 06 17:39
21	2	2011.d	1.	TEST 1	[VJA]	21 Aug 06 01:35
22	11	2011a.d	1.	50	[VJA] INIT TEMP 40	20 Aug 06 18:12
23	12	2012a.d	1.	70	[VJA] INIT TEMP 40	21 Aug 06 02:08
24	13	2013a.d	1.	R	[VJA] INIT TEMP 40	21 Aug 06 02:41
25	14	2014a.d	1.	R	[VJA] INIT TEMP 40	21 Aug 06 03:15
26	15	2015a.d	1.	R	[VJA] INIT TEMP 40	21 Aug 06 03:49
27	16	2016a.d	1.	IB	[VJA] INIT TEMP 40	21 Aug 06 04:22
28	17	2017a.d	1.	ICV	[VJA] INIT TEMP 40	21 Aug 06 04:55
29	18	2018a.d	1.	R	[VJA] INIT TEMP 40	21 Aug 06 05:28
30	19	2019a.d	1.	R	[VJA] INIT TEMP 40	21 Aug 06 06:02
31	20	2020a.d	1.	R	[VJA] INIT TEMP 40	21 Aug 06 06:35
32	21	2021a.d	1.	R	[VJA] INIT TEMP 40	21 Aug 06 07:09
33	22	2022a.d	1.	MDL0.4	[VJA] INIT TEMP 40	21 Aug 06 07:42
34	23	2023a.d	1.	MDL0.4	[VJA] INIT TEMP 40	21 Aug 06 08:16
35	24	2024a.d	1.	MDL0.4	[VJA] INIT TEMP 40	21 Aug 06 08:49
36	25	2025a.d	1.	MDL0.4	[VJA] INIT TEMP 40	21 Aug 06 09:23
37	26	2026a.d	1.	MDL0.4	[VJA] INIT TEMP 40	21 Aug 06 09:57
38	27	2027a.d	1.	MDL0.4	[VJA] INIT TEMP 40	21 Aug 06 10:31
39	28	2028a.d	1.	MDL0.4	[VJA] INIT TEMP 40	21 Aug 06 11:05
40	29	2029a.d	1.	MDL0.4	[VJA] INIT TEMP 40	21 Aug 06 11:39
					[VJA] INIT TEMP 40	21 Aug 06 12:14

Section 4.1

Section Contents:SGS Work Order: 1064875

Section : 4 AK101

Gasoline Range Organics, Alaska Dept. of Environment. Conserv.

Extraction Batch VXX15871*Analytical Batch: VFC8003*

	<u>HSN</u>	<u>Client ID</u>
Batch Summary Page		
Client Sample	1064875003	06GAM05GS19
Client Sample	1064875004	06GAM05GS21
Client Sample	1064875005	06GAM05GS22
Method Blank	723734	
Laboratory Control Sample	723735	
Laboratory Control Sample Duplicate	723736	
Instrument Blank	723780	
Calibration Check Sample	723782	
Calibration Check Sample	723784	
Calibration Check Sample	723786	
Horizon Run Log		
Instrument Run Log		
Extraction Log		

* Reanalysis

Section Contents:

SGS Work Order: 1064875

Extraction Batch VXX15877*Analytical Batch: VFC8005*

	<u>HSN</u>	<u>Client ID</u>
Batch Summary Page		
Client Sample	1064875002	06GAM05GS18
Client Sample	1064875006	06GAM05GS23
Client Sample	1064875007	06GAM05GS24
Client Sample	1064875008	06GAM05GS25
Client Sample	1064875010	06GAM05GSTB4
Client Sample	1064875011	06GAM05GSTB4
Matrix Spike	1064852050	
Matrix Spike Duplicate	1064852051	
Post Digestion Spike	724102	
Method Blank	724097	
Laboratory Control Sample	724099	
Instrument Blank	724115	
Calibration Check Sample	724117	
Calibration Check Sample	724120	
Calibration Check Sample	724122	
Horizon Run Log		
Instrument Run Log		
Extraction Log		

Extraction Batch VXX15887*Analytical Batch: VFC8010*

	<u>HSN</u>	<u>Client ID</u>
Batch Summary Page		
Client Sample	1064875001	06GAM05GS17
Client Sample	1064875012	06GAM05GSTB4
Matrix Spike	724481	
Matrix Spike Duplicate	724482	
Method Blank	724470	
Laboratory Control Sample	724474	
Instrument Blank	724495	
Calibration Check Sample	724496	
Calibration Check Sample	724512	
Horizon Run Log		
Instrument Run Log		
Extraction Log		

* Reanalysis

SGS Environmental, Inc.

Analytical Quality Control Summary Data

Work Order(s):
 1064650, 1064754, 1064802, 1064803,
 1064805, 1064852, 1064875, 1064898

Queue: VFC Batch: 8003
 Method: AK101, AK101 8021B, AK101/8021B

Run Date: 08/28/06 09:27 - 08/29/06 05:05

Extraction Batch(es): VXX15844, VXX15858, VXX15863,
 VXX15871, VXX15872

QC Parameter	Goals Met?		
Calibration:	<input checked="" type="checkbox"/>	N	N/A
Instrument/Method Blank:	<input checked="" type="checkbox"/>	N	N/A
Initial/Continuing Calibration Verifications:	Y	<input checked="" type="checkbox"/>	N/A
Laboratory Control Sample:	<input checked="" type="checkbox"/>	N	N/A
Laboratory Control Sample Duplicate:	<input checked="" type="checkbox"/>	N	N/A
Relative Percent Difference:	<input checked="" type="checkbox"/>	N	N/A
Sample Duplicate:	Y	N	<input checked="" type="checkbox"/>
Matrix Spike:	<input checked="" type="checkbox"/>	N	N/A
Matrix Spike Duplicate:	Y	<input checked="" type="checkbox"/>	N/A
Relative Percent Difference:	<input checked="" type="checkbox"/>	N	N/A
Surrogates:	Y	<input checked="" type="checkbox"/>	N/A
Sample Holding Time:	Y	<input checked="" type="checkbox"/>	N/A
Internal Standards	<input checked="" type="checkbox"/>	N	N/A
GCMS Tuner/DDT Sample	Y	N	<input checked="" type="checkbox"/>

See case narrative/sample comments for further information :

Additional Notes:

Is there any further action necessary for any out of control events described above? Y

Should a Corrective Action be initiated? Y

I certify that except as specifically noted in this report, all statements and data appearing in this report are in conformance with the provisions of the Quality Assurance Plan (QAP) prepared by this firm and on file with the Alaska Department of Environmental Conservation.

Analyst's Signature: Dana N. Alexander Reviewer's Signature: Sharon Foster
 Date: 8-30-06 Date: 8-30-06

Lab Report No.: 1064875 Date: 09/20/2006

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Project Name: 56016 Gambell FUDS		Analysis: Gasoline Range Organics, Alaska Dept. of				
Project No: 05-013		Method: AK101				
		Prep Meth: SW5030B				
Field ID: 06GAM05GS19	Lab Samp ID: 1064875003					
Descr/Location: MW-30	Rec'd Date: 08/21/2006					
Sample Date: 08/16/2006	Prep Date: 08/28/2006					
Sample Time: 1230	Analysis Date: 08/28/2006					
Matrix: Groundwater	QC Batch: VXX15871					
Basis: Not Filtered	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics	10.0	100.	PQL J	17.1	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		50-150	SMEA	84.4%		1
J: EPA Flag - Estimated value						

Approved by: _____

Date: _____ 147

Lab Report No.: 1064875 Date: 09/20/2006

Page: 12

Project Name: 56016 Gambell FUDS		Analysis: Gasoline Range Organics, Alaska Dept. of				
Project No: 05-013		Method: AK101				
		Prep Meth: SW5030B				
Field ID: 06GAM05GS21		Lab Samp ID: 1064875004				
Descr/Location: MW-30		Rec'd Date: 08/21/2006				
Sample Date: 08/16/2006		Prep Date: 08/28/2006				
Sample Time: 1150		Analysis Date: 08/28/2006				
Matrix: Groundwater		QC Batch: VXX15871				
Basis: Not Filtered		Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics	10.0	100. PQL	J	14.4	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		50-150 SMEA		85.9%		1
J: EPA Flag - Estimated value						

Approved by: _____

Date: _____ 148

Lab Report No.: 1064875 Date: 09/20/2006

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Project Name: 56016 Gambell FUDS		Analysis: Gasoline Range Organics, Alaska Dept. of				
Project No: 05-013		Method: AK101				
		Prep Meth: SW5030B				
Field ID: 06GAM05GS22		Lab Samp ID: 1064875005				
Descr/Location: MW-14		Rec'd Date: 08/21/2006				
Sample Date: 08/16/2006		Prep Date: 08/28/2006				
Sample Time: 1445		Analysis Date: 08/28/2006				
Matrix: Groundwater		QC Batch: VXX15871				
Basis: Not Filtered		Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics	10.0	100. PQL	J	11.4	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		50-150 SMEA		86.1%		1
J: EPA Flag - Estimated value						

Approved by: _____

Date: _____ 149

QA/QC Report Method Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: VXX15871 Matrix: Water QC Lab Samp ID: 723734 Analysis Date: 08/28/2006 Basis: Not Filtered	Analysis: Gasoline Range Organics, Alaska Dept. of Method: AK101 Prep Meth: SW5030B Prep Date: 08/28/2006 Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics	10.0	100.	PQL J	19.0	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		50-150	SMEA	85.4%		1
J: EPA Flag - Estimated value						

QA/QC Report
Blank Spike/Duplicate Blank Spike Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 113

QC Batch: VXX15871											
Matrix: Water QC											
Lab Samp ID: 723735											
Analyte	Analysis Method	Spike Level		Spike Result		Units	% Recoveries			Acceptance Criteria	
		LCS	LCD	LCS	LCD		LCS	LCD	RPD	%Rec	RPD
Gasoline Range Organics	AK101	450.	450.	399.	397.	UG/L	88.7	88.2	0.57	120-60 MEA	20MEP
4-Bromofluorobenzene	AK101	100.	100.	87.9	90.9	PERCENT	87.9	90.9	3.4	150-50 SMEA	NA

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: VXX15871 Matrix: Water QC Lab Samp ID: 723780 Analysis Date: 08/28/2006 Basis: Not Applicable	Analysis: Gasoline Range Organics, Alaska Dept. of Method: AK101 Prep Meth: NONE Prep Date: 08/28/2006 Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics	10.0	100.	PQL J	15.2	UG/L	1
J: EPA Flag - Estimated value						

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: VXX15871 Matrix: Water QC Lab Samp ID: 723782						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Gasoline Range Organics	AK101	200.	206.	UG/L	103	125-75 MECC
4-Bromofluorobenzene	AK101	100.	89.4	PERCE	89.4	125-75 SMEA

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: VXX15871						
Matrix: Water QC						
Lab Samp ID: 723784						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Gasoline Range Organics	AK101	200.	233.	UG/L	117	125-75 MECC
4-Bromofluorobenzene	AK101	100.	88.8	PERCE	88.8	125-75 SMEA

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: VXX15871 Matrix: Water QC Lab Samp ID: 723786						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Gasoline Range Organics	AK101	200.	233.	UG/L	117	125-75 MECC
4-Bromofluorobenzene	AK101	100.	96.7	PERCE	96.7	125-75 SMEA

SGS Alaska Division Peer Review Report - Horizon Run Log

Queue: VFC Batch: 8003 Create User: DNA Run Date: 08/28/06 Printed: 30-Aug-06

Project	HSN	Type	Sample ID	CC	Bottle Number	Matrix	Inst	Run Date/Time	Bench Dilution	Prep Batch	Seq
	723780	IB		OK		1	VBA	08/28/06 09:27	1		1
	723781	CCV2		OK		1	VBA	08/28/06 10:18	1		2
	723782	CCV		OK		1	VBA	08/28/06 10:43	1		3
	723734	MB		OK		1	VBA	08/28/06 11:34	1	15871VXX	4
	723747	MB		OK		2	VBA	08/28/06 11:59	1	15872VXX	5
	723748	LCS		OK		2	VBA	08/28/06 12:24	1	15872VXX	6
	723749	LCS		OK		2	VBA	08/28/06 12:50	1	15872VXX	7
	723735	LCS		OK		1	VBA	08/28/06 13:15	1	15871VXX	8
	723736	LCSD		OK		1	VBA	08/28/06 13:40	1	15871VXX	9
1064852	1064852057	TB	ADPSW-01tb	OK	1064852057-A	1	VBA	08/28/06 14:02	1	15871VXX	10
1064852	1064852052	PS	ADPSW02	OK	1064852052-A	1	VBA	08/28/06 14:27	1	15871VXX	11
1064852	1064852053	PS	ADPSW02 Dup	OK	1064852053-A	1	VBA	08/28/06 14:52	1	15871VXX	12
1064852	1064852054	PS	ADPSW03	OK	1064852054-A	1	VBA	08/28/06 15:17	1	15871VXX	13
1064875	1064875003	PS	06GAM05GS19	OK	1064875003-A	1	VBA	08/28/06 15:42	1	15871VXX	14
1064875	1064875004	PS	06GAM05GS21	OK	1064875004-A	1	VBA	08/28/06 16:07	1	15871VXX	15
1064875	1064875005	PS	06GAM05GS22	OK	1064875005-A	1	VBA	08/28/06 16:33	1	15871VXX	16
1064650	1064650007	PS	EXHSS03-4	OK	1064650008-A	2	VBA	08/28/06 16:57 ✓	10	15844VXX	17
1064650	1064650008	PS	EXHSS04-5	OK	1064650008-A	2	VBA	08/28/06 17:22 ✓	10	15872VXX	18
1064803	1064803005	PS	SWCAG4-1.5	OK	1064803005-A	2	VBA	08/28/06 18:12 ✓	100	15858VXX	19
1064803	1064803007	PS	SWCAG6-1	OK	1064803007-A	2	VBA	08/28/06 18:37 ✓	100	15863VXX	20
1064803	1064803004	PS	SWCAG91-1.5	LR	1064803004-A	2	VBA	08/28/06 19:03 ✓	10	15872VXX	21
	723783	CCV2		OK		1	VBA	08/28/06 19:28	1		22
	723784	CCV		OK		1	VBA	08/28/06 19:53	1		23
1064803	1064803003	PS	SWCAG3-1	OK	1064803003-A	2	VBA	08/28/06 20:18 ✓	100	15863VXX	24
1064802	1064802005	PS	EXBSS01-1.5	LR	1064802005-A	2	VBA	08/28/06 20:44 ✓	10	15872VXX	25
1064802	1064802006	PS	EXBSS02-1.5	OK	1064802006-A	2	VBA	08/28/06 21:08 ✓	10	15872VXX	26
1064802	1064802002	PS	EXASS01-1.5	OK	1064802002-A	2	VBA	08/28/06 21:33 ✓	10	15872VXX	27
1064802	1064802003	PS	EXASS02-1.5	OK	1064802003-A	2	VBA	08/28/06 21:58 ✓	10	15872VXX	28
1064802	1064802004	PS	EXASS03-1.5	OK	1064802004-A	2	VBA	08/28/06 22:23 ✓	1	15872VXX	29
1064898	1064898001	PS	EXGSS01-4.5	LR	1064898001-A	2	VBA	08/28/06 22:48 ✓	1	15872VXX	30
1064898	1064898003	PS	EXGSS02-6	LR	1064898003-A	2	VBA	08/28/06 23:14 ✓	10	15872VXX	31
1064898	1064898004	PS	EXGSS03-6	LR	1064898004-A	2	VBA	08/28/06 23:39 ✓	1	15872VXX	32
1064898	1064898005	PS	EXGSS04-4.5	OK	1064898005-A	2	VBA	08/29/06 00:04	1	15872VXX	33
	723750	MS		OK	1064898005-A	2	VBA	08/29/06 00:29	1	15872VXX	34
	723751	MSD		OK	1064898005-A	2	VBA	08/29/06 00:54	1	15872VXX	35
	723752	MS		OK	1064898005-A	2	VBA	08/29/06 01:19	1	15872VXX	36
	723753	MSD		OK	1064898005-A	2	VBA	08/29/06 01:44	1	15872VXX	37
1064898	1064898006	PS	EXGSS04-5.5	LR	1064898006-A	2	VBA	08/29/06 02:09 ✓	1	15872VXX	38
1064898	1064898007	PS	EXGSS05-4	LR	1064898007-A	2	VBA	08/29/06 02:34 ✓	1	15872VXX	39
1064898	1064898008	PS	EXGSS05-5	LR	1064898008-A	2	VBA	08/29/06 02:59 ✓	1	15872VXX	40
1064898	1064898009	PS	EXGSS06-4	OK	1064898009-A	2	VBA	08/29/06 03:24	1	15872VXX	41
1064805	1064805006	PS	E22906-E06-2	LR	1064805006-A	2	VBA	08/29/06 03:50	1	15872VXX	42

SGS Alaska Division Peer Review Report - Horizon Run Log

Queue: VFC Batch: 8003 Create User: DNA Run Date: 08/29/06 Printed: 30-Aug-06

Project	HSN	Type	Sample ID	CC	Bottle Number	Matrix	Inst	Run Date/Time	Bench Dilution	Prep Batch	Seq
1064805	1064805007	PS	E22906-E07-1	LR	1064805007-A	2	VBA	08/29/06 04:15	1	15872VXX	43
	723785	CCV2		OK		1	VBA	08/29/06 04:40	1		44
	723786	CCV		OK		1	VBA	08/29/06 05:05	1		45

Runlog

VBA06210828P.seq

Sample ID	Date Acquired	Init.	Mult.	Instr.	Data File	aaa-TFT IS Area	4-Bromofluorobenzene... Surrogate Area
IB	8/28/2006 9:02:22 A	HM	1	VBA	VBA06220828_001.dat	31838	50070
IB	8/28/2006 9:27:42 A	HM	1	VBA	VBA06220828_002.dat	28663	37817
C6-C10	8/28/2006 9:53:04 A	HM	1	VBA	VBA06220828_003.dat	28585	38621
CCV2	8/28/2006 10:18:24 A	HM	1	VBA	VBA06220828_004.dat	29559	43735
CCV	8/28/2006 10:43:52 A	HM	1	VBA	VBA06220828_005.dat	28159	39655
IB	8/28/2006 11:09:06 A	HM	1	VBA	VBA06220828_006.dat	28596	38150
MB H2O	8/28/2006 11:34:18 A	HM	1	VBA	VBA06220828_007.dat	28776	37913
MB SOIL	8/28/2006 11:59:47 A	HM	1	VBA	VBA06220828_008.dat	29071	37413
LCS BTEX SOIL	8/28/2006 12:24:55 P	HM	1	VBA	VBA06220828_009.dat	30307	39563
LCS GRO SOIL	8/28/2006 12:50:05 P	HM	1	VBA	VBA06220828_010.dat	29654	39694
LCS GRO H2O	8/28/2006 1:15:17 P	HM	1	VBA	VBA06220828_011.dat	29843	38987
LCSD GRO H2O	8/28/2006 1:40:50 P	HM	1	VBA	VBA06220828_012.dat	29271	40350
1064852057 A TB	8/28/2006 2:02:00 P	HM	1	VBA	VBA06220828_013.dat	28973	39839
1064852052 A	8/28/2006 2:27:05 P	HM	1	VBA	VBA06220828_014.dat	28810	37880
1064852053 A	8/28/2006 2:52:19 P	HM	1	VBA	VBA06220828_015.dat	28572	37553
1064852054 A	8/28/2006 3:17:28 P	HM	1	VBA	VBA06220828_016.dat	29168	37788
1064875003 A	8/28/2006 3:42:36 P	HM	1	VBA	VBA06220828_017.dat	29599	37443
1064875004 A	8/28/2006 4:07:49 P	HM	1	VBA	VBA06220828_018.dat	28966	38113
1064875005 A	8/28/2006 4:33:01 P	HM	1	VBA	VBA06220828_019.dat	28608	38193
1064650007 A 10X	8/28/2006 4:57:57 P	HM	10	VBA	VBA06220828_020.dat	28292	204927
1064650008 A 10X	8/28/2006 5:22:55 P	HM	10	VBA	VBA06220828_021.dat	27775	9212
1064754001 A	8/28/2006 5:47:45 P	HM	1	VBA	VBA06220828_022.dat	28063	10992
1064803005 A 100	8/28/2006 6:12:41 P	HM	100	VBA	VBA06220828_023.dat	27199	9023
1064803007 A 100	8/28/2006 6:37:41 P	HM	100	VBA	VBA06220828_024.dat	27413	9202
1064803004 A 10X	8/28/2006 7:03:06 P	HM	10	VBA	VBA06220828_025.dat	25978	117810
CCV2	8/28/2006 7:28:29 P	HM	1	VBA	VBA06220828_026.dat	27227	47085
CCV	8/28/2006 7:53:41 P	HM	1	VBA	VBA06220828_027.dat	26985	39417
1064803003 A 100	8/28/2006 8:18:32 P	HM	100	VBA	VBA06220828_028.dat	26548	21253
1064802005 A 10X	8/28/2006 8:44:02 P	HM	10	VBA	VBA06220828_029.dat	26688	16745
1064802006 A 10X	8/28/2006 9:08:56 P	HM	10	VBA	VBA06220828_030.dat	26688	17645
1064802002 A 10X	8/28/2006 9:33:54 P	HM	10	VBA	VBA06220828_031.dat	27451	32460
1064802003 A 10X	8/28/2006 9:58:55 P	HM	10	VBA	VBA06220828_032.dat	27888	50293
1064802004 A	8/28/2006 10:23:52 P	HM	1	VBA	VBA06220828_033.dat	27358	417836
1064898001 A	8/28/2006 10:48:44 P	HM	1	VBA	VBA06220828_034.dat	26192	105010
1064898003 A 10X	8/28/2006 11:14:19 P	HM	10	VBA	VBA06220828_035.dat	25939	31842
1064898004 A	8/28/2006 11:39:19 P	HM	1	VBA	VBA06220828_036.dat	26615	124115
1064898005 A	8/29/2006 12:04:15 A	HM	1	VBA	VBA06220828_037.dat	26168	38756
MS BTEX 1064898	8/29/2006 12:29:07 A	HM	1	VBA	VBA06220828_038.dat	27817	38603
MSD BTEX 106489	8/29/2006 12:54:01 A	HM	1	VBA	VBA06220828_039.dat	27792	40427
MS GRO 10648980	8/29/2006 1:19:00 A	HM	1	VBA	VBA06220828_040.dat	27177	39518

MSD GRO 106489	8/29/2006 1:44:06 A	HM	1	VBA	VBA06220828_041.dat	27681	40074
1064898006 A	8/29/2006 2:09:21 A	HM	1	VBA	VBA06220828_042.dat	26995	381820
1064898007 A	8/29/2006 2:34:27 A	HM	1	VBA	VBA06220828_043.dat	25557	150300
1064898008 A	8/29/2006 2:59:43 A	HM	1	VBA	VBA06220828_044.dat	21561	2450984
1064898009 A	8/29/2006 3:24:50 A	HM	1	VBA	VBA06220828_045.dat	25352	156352
1064805006 A	8/29/2006 3:50:01 A	HM	1	VBA	VBA06220828_046.dat	25610	50171
1064805007 A	8/29/2006 4:15:01 A	HM	1	VBA	VBA06220828_047.dat	25902	116658
CCV2	8/29/2006 4:40:20 A	HM	1	VBA	VBA06220828_048.dat	27583	45504
CCV	8/29/2006 5:05:52 A	HM	1	VBA	VBA06220828_049.dat	26855	42895

Instrument: VBA Method: AK101/BTEX Run Date: 8-28-06 Calibration Date: 6-22-06

Operator: DNA Processed By: DNA Posted By: DNA Analytical Batch: 7 8003

VXX: 15871

VXX: 15872

DNA
8-30-06
pH

Vial	Sample Name	Dilution	Notes: Odor, Color, Dilution Formula	Rerun
1	FB			
2	FB			
3	NAS			
4	CCV2			
5	CCV			
6	FB			
7	MB H ₂ O			
8	MB Sol			
9	LCS B S			723734
10	LCS G S			723747
11	LCS G H			723748
12	LCS G H			723749
13	1064852-57A		TB	723755
14	1064852-52A			723736
15	-53			
16	-54			
17	1064875-3A			
18	-4			
19	-5			
20	1064650-7A	10X		
21	-8	10X		
22	1064754-1A		BFB ↓	
23	4803-5A	100X	B detect	
24	-7	100X		LR
25	-4	10X	GRON	LR
26	CCV2		B ↑	
27	CCV			
28	1064807-3A	100X	B detect	LR
29	4802-5A	10X		LR
30	-6	10X		
31	-2	10X		
32	-3	10X		
33	-4			
34	1064818-1A		B detect	LR
35	-3	10X		LR

Standards: Vwb. 70.3 (PFB) Vwb. 61.3 (BFB) Vwb. 63.3 (IS)
Vwb. 88.4 (CCV2) Vwb. 30.3 (CCV) Vwb. 12.5 (NAS)
Vwb. 74.3 (LCS BTEX) Vwb. 57.4 (LCS GRO)

Instrument: _____ Method: _____ Run Date: _____ Calibration Date: _____

Operator: _____ Processed By: _____ Posted By: _____ Analytical Batch: _____

Vial	Sample Name	Dilution	Notes: Odor, Color, Dilution Formula	pH	Rerun
36	1064898-4A		B detect	LR	1X
37	-5			723750	
38	-5			723751	
39	-5		B ↑	723752	
40	-5			723753	
41	-5				
42	-6		B detect GRO ↑	LR	10X
43	-7		↓		
44	-8		GRO ↑	LR	100X
45	-9				
46	1064895-6A		B detect	LR	1X
47	-7		↓	LR	1X
48	CW2				
49	CCV				

DMA
8.29.06

Standards: _____

Lab Report No.: 1064875 Date: 09/20/2006

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Project Name: 56016 Gambell FUDS		Analysis: Gasoline Range Organics, Alaska Dept. of				
Project No: 05-013		Method: AK101				
		Prep Meth: SW5030B				
Field ID: 06GAM05GS18		Lab Samp ID: 1064875002				
Descr/Location: MW-31		Rec'd Date: 08/21/2006				
Sample Date: 08/16/2006		Prep Date: 08/30/2006				
Sample Time: 1900		Analysis Date: 08/30/2006				
Matrix: Groundwater		QC Batch: VXX15877				
Basis: Not Filtered		Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics	10.0	100.	PQL	ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		50-150	SMEA	66.5%		1

Approved by: _____

Date: _____ 163

Lab Report No.: 1064875 Date: 09/20/2006

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Project Name: 56016 Gambell FUDS		Analysis: Gasoline Range Organics, Alaska Dept. of				
Project No: 05-013		Method: AK101				
		Prep Meth: SW5030B				
Field ID: 06GAM05GS23	Lab Samp ID: 1064875006					
Descr/Location: MW-15	Rec'd Date: 08/21/2006					
Sample Date: 08/16/2006	Prep Date: 08/30/2006					
Sample Time: 1550	Analysis Date: 08/30/2006					
Matrix: Groundwater	QC Batch: VXX15877					
Basis: Not Filtered	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics	10.0	100. PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		50-150 SMEA		67.8%		1

Approved by: _____

Date: _____ 164

Lab Report No.: 1064875 Date: 09/20/2006

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Project Name: 56016 Gambell FUDS		Analysis: Gasoline Range Organics, Alaska Dept. of				
Project No: 05-013		Method: AK101				
		Prep Meth: SW5030B				
Field ID: 06GAM05GS24	Lab Samp ID: 1064875007					
Descr/Location: MW-32	Rec'd Date: 08/21/2006					
Sample Date: 08/16/2006	Prep Date: 08/30/2006					
Sample Time: 1700	Analysis Date: 08/30/2006					
Matrix: Groundwater	QC Batch: VXX15877					
Basis: Not Filtered	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics	10.0	100.	PQL	ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		50-150	SMEA	73.3%		1

Approved by: _____

Date: _____ 165

Lab Report No.: 1064875 Date: 09/20/2006

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Project Name: 56016 Gambell FUDS		Analysis: Gasoline Range Organics, Alaska Dept. of				
Project No: 05-013		Method: AK101				
		Prep Meth: SW5030B				
Field ID: 06GAM05GS25		Lab Samp ID: 1064875008				
Descr/Location: MW-29		Rec'd Date: 08/21/2006				
Sample Date: 08/16/2006		Prep Date: 08/30/2006				
Sample Time: 1830		Analysis Date: 08/30/2006				
Matrix: Groundwater		QC Batch: VXX15877				
Basis: Not Filtered		Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics	10.0	100.	PQL	ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		50-150	SMEA	70.8%		1

Approved by: _____

Date: _____ 166

Lab Report No.: 1064875 Date: 09/20/2006

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Project Name: 56016 Gambell FUDS		Analysis: Gasoline Range Organics, Alaska Dept. of				
Project No: 05-013		Method: AK101				
		Prep Meth: SW5030B				
Field ID: 06GAM05GSTB4-1	Lab Samp ID: 1064875010					
Descr/Location: Trip Blank	Rec'd Date: 08/21/2006					
Sample Date: 08/17/2006	Prep Date: 08/30/2006					
Sample Time: 0000	Analysis Date: 08/30/2006					
Matrix: Surface Water	QC Batch: VXX15877					
Basis: Not Filtered	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics	10.0	100.	PQL	ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		50-150	SMEA	66.6%		1

Approved by: _____

Date: _____ 167

Lab Report No.: 1064875 Date: 09/20/2006

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Project Name: 56016 Gambell FUDS		Analysis: Gasoline Range Organics, Alaska Dept. of				
Project No: 05-013		Method: AK101				
		Prep Meth: SW5030B				
Field ID: 06GAM05GSTB4-2	Lab Samp ID: 1064875011					
Descr/Location: Trip Blank	Rec'd Date: 08/21/2006					
Sample Date: 08/17/2006	Prep Date: 08/30/2006					
Sample Time: 0000	Analysis Date: 08/30/2006					
Matrix: Surface Water	QC Batch: VXX15877					
Basis: Not Filtered	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics	10.0	100.	PQL	111.	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		50-150	SMEA	84.8%		1

Approved by: _____

Date: _____ 168

QA/QC Report
Matrix Spike/Duplicate Matrix Spike Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: VXX15877 Matrix: Surface Water Lab Samp ID: 1064852050 Basis: Not Filtered	Project Name: Lab Generated or Non COE Sample Project No.: Lab Generated or Non COE Sample Field ID: Lab Generated or Non COE Sample Lab Ref ID: 1064852049
---	--

Analyte	Analysis Method	Spike Level		Sample Result	Spike Result		Units	% Recoveries			Acceptance Criteria		
		MS	DMS		MS	DMS		MS	DMS	RPD	% Rec	MSA	RPD
Gasoline Range Organics	AK101	450.	450.	ND	350.	354.	UG/L	77.8	78.7	1.2	120-60	MSA	20MEP
4-Bromofluorobenzene	AK101	100.	100.	72.2	73.8	72.2	PERCENT	73.8	72.2	2.2	150-50	SMSA	NA

QA/QC Report Matrix Spike/Duplicate Matrix Spike Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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<p>QC Batch: VXX15877 Matrix: Surface Water Lab Samp ID: 724102 Basis: Not Filtered</p>	<p>Project Name: Lab Generated or Non COE Sample Project No.: Lab Generated or Non COE Sample Field ID: Lab Generated or Non COE Sample Lab Ref ID: 1064669001</p>
--	---

Analyte	Analysis Method	Spike Level		Sample Result	Spike Result		Units	% Recoveries			Acceptance Criteria		
		MS	DMS		MS	DMS		MS	DMS	RPD	% Rec	MSA	RPD
Gasoline Range Organics	AK101	450.	450.	ND	376.	402.	UG/L	83.6	89.3	6.6	120-60	MSA	20MEP
4-Bromofluorobenzene	AK101	100.	100.	70.0	76.1	87.7	PERCENT	76.1	87.7	14	150-50	SMSA	NA

QA/QC Report Method Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: VXX15877 Matrix: Water QC Lab Samp ID: 724097 Analysis Date: 08/30/2006 Basis: Not Filtered	Analysis: Gasoline Range Organics, Alaska Dept. of Method: AK101 Prep Meth: SW5030B Prep Date: 08/30/2006 Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics	10.0	100.	PQL	ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		50-150	SMEA	72.2%		1

QA/QC Report Blank Spike/Duplicate Blank Spike Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: VXX15877 Matrix: Water QC Lab Samp ID: 724099												
Analyte	Analysis Method	Spike Level		Spike Result		Units	% Recoveries			Acceptance Criteria		
		LCS	LCD	LCS	LCD		LCS	LCD	RPD	%Rec	RPD	
Gasoline Range Organics	AK101	450.	NA	400.	NA	UG/L	88.9	NA	NA	120-60	MEA	NA
4-Bromofluorobenzene	AK101	100.	NA	76.8	NA	PERCENT	76.8	NA	NA	150-50	SMEA	NA

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: VXX15877	Analysis: Gasoline Range Organics, Alaska Dept. of
Matrix: Water QC	Method: AK101
Lab Samp ID: 724115	Prep Meth: NONE
Analysis Date: 08/30/2006	Prep Date: 08/30/2006
Basis: Not Applicable	Notes:

Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics	10.0	100.	PQL	ND	UG/L	1

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: VXX15877 Matrix: Water QC Lab Samp ID: 724117						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Gasoline Range Organics	AK101	200.	208.	UG/L	104	125-75 MECC
4-Bromofluorobenzene	AK101	100.	96.8	PERCE	96.8	125-75 SMEA

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: VXX15877						
Matrix: Water QC						
Lab Samp ID: 724120						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Gasoline Range Organics	AK101	200.	183.	UG/L	91.5	125-75 MECC
4-Bromofluorobenzene	AK101	100.	85.5	PERCE	85.5	125-75 SMEA

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: VXX15877 Matrix: Water QC Lab Samp ID: 724122						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Gasoline Range Organics	AK101	200.	170.	UG/L	85.0	125-75 MECC
4-Bromofluorobenzene	AK101	100.	74.0	PERCE	74.0!	125-75 SMEA
CI: See narrative						

SGS Alaska Division Peer Review Report - Horizon Run Log

Queue: VFC Batch: 8005 Create User: HM Run Date: 08/30/06 Printed: 31-Aug-06

Project	HSN	Type	Sample ID	CC	Bottle Number	Matrix	Inst	Run Date/Time	Bench Dilution	Prep Batch	Seq
	724115	IB		OK		1	VCA	08/30/06 09:55	1		1
	724116	CCV2		OK		1	VCA	08/30/06 10:34	1		2
	724117	CCV		OK		1	VCA	08/30/06 10:53	1		3
	724097	MB		OK		1	VCA	08/30/06 11:13	1	15877VXX	4
	724098	LCS		OK		1	VCA	08/30/06 11:32	1	15877VXX	5
	724099	LCS		OK		1	VCA	08/30/06 11:51	1	15877VXX	6
1064866	1064866004	PS	MW 11	OK	1064866004-A	1	VCA	08/30/06 12:15	1	15877VXX	7
1064669	1064669001	PS	1320-082306-001	OK	1064669001-A	1	VCA	08/30/06 13:33	1	15877VXX	8
1064669	1064669002	PS	1320-082306-002	OK	1064669002-A	1	VCA	08/30/06 13:52	1	15877VXX	9
1064669	1064669003	PS	1320-082306-003	OK	1064669003-A	1	VCA	08/30/06 14:12	1	15877VXX	10
1064669	1064669004	PS	1320-082306-004	OK	1064669004-A	1	VCA	08/30/06 14:31	1	15877VXX	11
1064669	1064669005	TB	Trip Blank	OK	1064669005-A	1	VCA	08/30/06 14:51	1	15877VXX	12
1064881	1064881003	TB	Trip Blank	OK	1064881003-A	1	VCA	08/30/06 15:10	1	15877VXX	13
	724100	MS		OK	1064669001-A	1	VCA	08/30/06 15:30	1	15877VXX	14
	724101	MSD		OK	1064669001-A	1	VCA	08/30/06 15:49	1	15877VXX	15
	724102	MS		OK	1064669001-A	1	VCA	08/30/06 16:09	1	15877VXX	16
	724103	MSD		OK	1064669001-A	1	VCA	08/30/06 16:28	1	15877VXX	17
	724120	CCV		OK		1	VCA	08/30/06 17:07	1		18
	724121	CCV2		OK		1	VCA	08/30/06 17:42	1		19
1064852	1064852049	PS	ADPSW01	OK	1064852049-A	1	VCA	08/30/06 18:01	1	15877VXX	20
1064852	1064852050	BMS	ADPSW01 MS	OK	1064852050-A	1	VCA	08/30/06 18:21	1	15877VXX	21
1064852	1064852051	BMSD	ADPSW01 MSD	OK	1064852051-A	1	VCA	08/30/06 19:00	1	15877VXX	22
1064875	1064875006	PS	06GAM05GS23	OK	1064875006-A	1	VCA	08/30/06 19:19	1	15877VXX	23
1064875	1064875007	PS	06GAM05GS24	OK	1064875007-A	1	VCA	08/30/06 19:39	1	15877VXX	24
1064875	1064875008	PS	06GAM05GS25	OK	1064875008-A	1	VCA	08/30/06 19:58	1	15877VXX	25
1064875	1064875002	PS	06GAM05GS18	OK	1064875002-A	1	VCA	08/30/06 20:18	1	15877VXX	26
1064875	1064875010	TB	06GAM05GSTB4	OK	1064875010-C	1	VCA	08/30/06 20:56	1	15877VXX	27
1064875	1064875011	TB	06GAM05GSTB4	OK	1064875011-C	1	VCA	08/30/06 21:15	1	15877VXX	28
	724122	CCV		OK		1	VCA	08/30/06 22:34	1		29

Runlog

VCA08210830P.seq

Sample ID	Date Acquired	Init.	Mult.	Instr.	Data File	aaa - TFT IS Area	4-Bromofluoro... Surrogate Area
IB	8/30/2006 9:55:37 A	HM	1	VCA	VCA08210830_001.dat	17281	52794
C6-C10	8/30/2006 10:14:52 A	HM	1	VCA	VCA08210830_002.dat	19557	61197
CCV2	8/30/2006 10:34:14 A	HM	1	VCA	VCA08210830_003.dat	22865	64555
CCV	8/30/2006 10:53:42 A	HM	1	VCA	VCA08210830_004.dat	22727	63286
MB-H2O	8/30/2006 11:13:10 A	HM	1	VCA	VCA08210830_005.dat	17028	47187
LCS-H2O* BTEX	8/30/2006 11:32:17 A	HM	1	VCA	VCA08210830_006.dat	20435	59038
LCS-H2O* GRO	8/30/2006 11:51:39 A	HM	1	VCA	VCA08210830_007.dat	18551	50217
1064866004A	8/30/2006 12:15:37 P	HM	1	VCA	VCA08210830_008.dat	19228	53652
1064666001A	8/30/2006 12:35:05 P	HM	1	VCA	VCA08210830_009.dat	16490	44818
EMPTY	8/30/2006 12:54:19 P	HM	1	VCA	VCA08210830_010.dat	16842	39049
1064666002A*TB	8/30/2006 1:13:48 P	HM	1	VCA	VCA08210830_011.dat	17075	44162
1064669001A	8/30/2006 1:33:22 P	HM	1	VCA	VCA08210830_012.dat	18103	45761
1064669002A	8/30/2006 1:52:44 P	HM	1	VCA	VCA08210830_013.dat	18329	45176
1064669003A	8/30/2006 2:12:12 P	HM	1	VCA	VCA08210830_014.dat	17246	49175
1064669004A	8/30/2006 2:31:47 P	HM	1	VCA	VCA08210830_015.dat	16781	45698
1064669005A*TB	8/30/2006 2:51:16 P	HM	1	VCA	VCA08210830_016.dat	16225	45451
1064881003A*TB	8/30/2006 3:10:51 P	HM	1	VCA	VCA08210830_017.dat	17444	46579
1064669001A*MS*	8/30/2006 3:30:12 P	HM	1	VCA	VCA08210830_018.dat	21367	52922
1064669001A*MSD	8/30/2006 3:49:40 P	HM	1	VCA	VCA08210830_019.dat	16222	47459
1064669001A*MS*	8/30/2006 4:09:09 P	HM	1	VCA	VCA08210830_020.dat	17873	49732
1064669001A*MSD	8/30/2006 4:28:30 P	HM	1	VCA	VCA08210830_021.dat	21621	57353
CCV2	8/30/2006 4:47:58 P	HM	1	VCA	VCA08210830_022.dat	19622	55771
CCV	8/30/2006 5:07:28 P	HM	1	VCA	VCA08210830_023.dat	20266	55907
CCV2	8/30/2006 5:42:08 P	HM	1	VCA	VCA08210830_024.dat	18282	50103
1064852049A	8/30/2006 6:01:36 P	HM	1	VCA	VCA08210830_025.dat	16855	47205
1064852050A*MS*	8/30/2006 6:21:05 P	HM	1	VCA	VCA08210830_026.dat	16780	48240
EMPTY	8/30/2006 6:40:33 P	HM	1	VCA	VCA08210830_027.dat	94	5173
1064852051A*MSD	8/30/2006 7:00:02 P	HM	1	VCA	VCA08210830_028.dat	16953	47232
1064875006A	8/30/2006 7:19:37 P	HM	1	VCA	VCA08210830_029.dat	16992	44350
1064875007A	8/30/2006 7:39:12 P	HM	1	VCA	VCA08210830_030.dat	16542	47912
1064875008A	8/30/2006 7:58:41 P	HM	1	VCA	VCA08210830_031.dat	15596	46283
1064875002A	8/30/2006 8:18:02 P	HM	1	VCA	VCA08210830_032.dat	15243	43455
1064875001A	8/30/2006 8:37:17 P	HM	1	VCA	VCA08210830_033.dat	33768	671
1064875010A*TB	8/30/2006 8:56:31 P	HM	1	VCA	VCA08210830_034.dat	15556	43510
1064875011A*TB	8/30/2006 9:15:59 P	HM	1	VCA	VCA08210830_035.dat	16176	55409
1064881002A	8/30/2006 9:35:35 P	HM	100	VCA	VCA08210830_036.dat	15719	214426
IB	8/30/2006 9:55:04 P	HM	1	VCA	VCA08210830_037.dat	30268	2915
CCV2	8/30/2006 10:14:32 P	HM	1	VCA	VCA08210830_038.dat	13980	45254
CCV	8/30/2006 10:34:00 P	HM	1	VCA	VCA08210830_039.dat	13167	48376

8/31/2006 10:06:50 AM

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Instrument: VCA Method: AK 101/BTEX Run Date: 8/30/06 Calibration Date: 8/21/06

Operator: HM Processed By: HM Posted By: HM Analytical Batch: 8005

NXX: 15877

Vial	Sample Name	Dilution	Notes: Odor, Color, Dilution Formula	pH	Rerun
1	IB				
2	CG-C10				
3	CCV2				
4	CCV				
5	MB-H2O		724097		
6	LCS-H2O B		724098		
7	LCS-H2O G		724099		
8	4866-4A	X1		< 2	
9	4666-1A	X1		602 < 2	
10	Empty				
11	4666-2A	X1	TB	602 < 2	
12	4669-1			< 2	
13	-2			< 2	
14	-3			< 2	
15	-4			< 2	
16	√ -5		TB	< 2	
1	4881-3		TB	< 2	
2	4969-1		MS B 724100	< 2	
3	-1		MSD B 724101	< 2	
4	-1	√ √	MS G 724102	< 2	
5	√ -1	A X1	MSD G 724103	< 2	
6	CCV2				
7	CCV		CCV2		
8	4852-49A	X1		< 2	
9	√ 50A	X1	BMS G	< 2	
10	Empty				
11	4852-51A	X1	BMSD G	< 2	
12	4875-6			< 2	
13	-7			< 2	
14	-8			< 2	
15	-2			< 2	
16	-1		NU no BFB, DFB	< 2	
1	-10	√	TB	< 2	
2	-11	V X1	TB	< 2	
3	4881-2A	100X		< 2	

Standards: 4 - IB
 5 - CCV2
 6 - CCV
 7 - CCV2
 15: VW6-63-3 CCV2: VW6-92-1 LCSG: VW6-53-4
 Corrado: VW6-78-1 CCV: VW6-30-3
 NAS: VW6-99-1 LCSB: VW6-74-5

Lab Report No.: 1064875 Date: 09/20/2006

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Project Name: 56016 Gambell FUDS		Analysis: Gasoline Range Organics, Alaska Dept. of				
Project No: 05-013		Method: AK101				
		Prep Meth: SW5030B				
Field ID: 06GAM05GS17		Lab Samp ID: 1064875001				
Descr/Location: PWS		Rec'd Date: 08/21/2006				
Sample Date: 08/17/2006		Prep Date: 08/31/2006				
Sample Time: 1335		Analysis Date: 08/31/2006				
Matrix: Groundwater		QC Batch: VXX15887				
Basis: Not Filtered		Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics	10.0	100. PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		50-150 SMEA		87.7%		1

Approved by: _____

Date: _____ 181

Lab Report No.: 1064875 Date: 09/20/2006

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Project Name: 56016 Gambell FUDS		Analysis: Gasoline Range Organics, Alaska Dept. of				
Project No: 05-013		Method: AK101				
		Prep Meth: SW5030B				
Field ID: 06GAM05GSTB4-3	Lab Samp ID: 1064875012					
Descr/Location: Trip Blank	Rec'd Date: 08/21/2006					
Sample Date: 08/17/2006	Prep Date: 08/31/2006					
Sample Time: 0000	Analysis Date: 08/31/2006					
Matrix: Surface Water	QC Batch: VXX15887					
Basis: Not Filtered	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics	10.0	100. PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		50-150 SMEA		90.2%		1

Approved by: _____

Date: _____ 182

QA/QC Report

Matrix Spike/Duplicate Matrix Spike Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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<p>QC Batch: VXX15887 Matrix: Surface Water Lab Samp ID: 724481 Basis: Not Filtered</p>	<p>Project Name: Lab Generated or Non COE Sample Project No.: Lab Generated or Non COE Sample Field ID: Lab Generated or Non COE Sample Lab Ref ID: 724478</p>
--	---

Analyte	Analysis Method	Spike Level		Sample Result	Spike Result		Units	% Recoveries			Acceptance Criteria		
		MS	DMS		MS	DMS		MS	DMS	RPD	% Rec	MSA	RPD
Gasoline Range Organics	AK101	450.	450.	ND	405.	421.	UG/L	86.1	89.6	4.0	120-60	MSA	20MEP
4-Bromofluorobenzene	AK101	100.	100.	93.5	91.5	93.6	PERCENT	91.5	93.6	2.3	150-50	SMSA	NA

QA/QC Report Method Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch:	VXX15887	Analysis:	Gasoline Range Organics, Alaska Dept. of			
Matrix:	Water QC	Method:	AK101			
Lab Samp ID:	724470	Prep Meth:	SW5030B			
Analysis Date:	08/31/2006	Prep Date:	08/31/2006			
Basis:	Not Filtered	Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics	10.0	100.	PQL	ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
4-Bromofluorobenzene		50-150	SMEA	86.2%		1

QA/QC Report
Blank Spike/Duplicate Blank Spike Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: VXX15887 Matrix: Water QC Lab Samp ID: 724474												
Analyte	Analysis Method	Spike Level		Spike Result		Units	% Recoveries			Acceptance Criteria		
		LCS	LCD	LCS	LCD		LCS	LCD	RPD	%Rec	RPD	
Gasoline Range Organics	AK101	450.	NA	452.	NA	UG/L	100	NA	NA	120-60	MEA	NA
4-Bromofluorobenzene	AK101	100.	NA	99.6	NA	PERCENT	99.6	NA	NA	150-50	SMEA	NA

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: VXX15887	Analysis: Gasoline Range Organics, Alaska Dept. of
Matrix: Water QC	Method: AK101
Lab Samp ID: 724495	Prep Meth: NONE
Analysis Date: 08/31/2006	Prep Date: 08/31/2006
Basis: Not Applicable	Notes:

Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Gasoline Range Organics	10.0	100.	PQL	ND	UG/L	1

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: VXX15887						
Matrix: Water QC						
Lab Samp ID: 724496						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Gasoline Range Organics	AK101	200.	172.	UG/L	86.0	125-75 MECC
4-Bromofluorobenzene	AK101	100.	74.6	PERCE	74.6!	125-75 SMEA

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: VXX15887						
Matrix: Water QC						
Lab Samp ID: 724512						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Gasoline Range Organics	AK101	200.	173.	UG/L	86.5	125-75 MECC
4-Bromofluorobenzene	AK101	100.	90.8	PERCE	90.8	125-75 SMEA

SGS Alaska Division Peer Review Report - Horizon Run Log

Queue: VFC Batch: 8010 Create User: MCM Run Date: 08/31/06 Printed: 01-Sep-06

Project	HSN	Type	Sample ID	CC	Bottle Number	Matrix	Inst	Run Date/Time	Bench Dilution	Prep Batch	Seq
	724495	IB		OK		1	VCA	08/31/06 09:15	1		1
	724496	CCV		OK		1	VCA	08/31/06 10:33	1		2
	724497	CCV2		OK		1	VCA	08/31/06 10:52	1		3
	724470	MB		OK		1	VCA	08/31/06 11:48	1	15887VXX	4
	724471	LCS		OK		1	VCA	08/31/06 13:41	1	15887VXX	5
	724474	LCS		OK		1	VCA	08/31/06 14:00	1	15887VXX	6
1064875	1064875012	TB	06GAM05GSTB4	OK	1064875012-C	1	VCA	08/31/06 14:38	1	15887VXX	7
1064852	1064852055	PS	ADPSW05	OK	1064852055-A	1	VCA	08/31/06 14:47	1	15887VXX	8
1064875	1064875001	PS	06GAM05GS17	CA	1064875001-A	1	VCA	08/31/06 15:47	1	15887VXX	9
1064875	1064875001	PS	06GAM05GS17	OK	1064875001-A	1	VCA	08/31/06 16:07	1	15887VXX	10
1064881	1064881002	PS	IGT08210601	OK	1064881002-A	6	VCA	08/31/06 16:26	10	15887VXX	11
1065005	1065005014	TB	Trip Blank	OK	1065005014-A	1	VCA	08/31/06 18:06	1	15887VXX	12
1065005	1065005012	PS	Water	OK	1065005012-A	1	VCA	08/31/06 18:25	1	15887VXX	13
	724481	MS		OK	1065005012-A	1	VCA	08/31/06 19:04	1	15887VXX	14
	724482	MSD		OK	1065005012-A	1	VCA	08/31/06 19:23	1	15887VXX	15
1065005	1065005013	PS	Water Dup	OK	1065005013-A	1	VCA	08/31/06 19:44	1	15887VXX	16
	724479	MS		OK	1065005012-A	1	VCA	08/31/06 20:03	1	15887VXX	17
	724480	MSD		OK	1065005012-A	1	VCA	08/31/06 20:23	1	15887VXX	18
	724511	CCV2		OK		1	VCA	08/31/06 20:42	1		19
	724512	CCV		OK		1	VCA	08/31/06 21:21	1		20

Runlog

VCA08210831P.seq

Sample ID	Date Acquired	Init.	Mult.	Instr.	Data File	aaa - TFT IS Area	4-Bromofluoro... Surrogate Area
IB	8/31/2006 9:15:40 A	HM	1	VCA	VCA08210831_001.dat	22404	61653
C6-C10	8/31/2006 9:34:55 A	HM	1	VCA	VCA08210831_002.dat	17172	46830
IB	8/31/2006 9:54:09 A	HM	1	VCA	VCA08210831_003.dat	19116	48368
CCV2	8/31/2006 10:13:44 A	HM	1	VCA	VCA08210831_004.dat	18594	52659
CCV	8/31/2006 10:33:05 A	HM	1	VCA	VCA08210831_005.dat	18112	48799
CCV2	8/31/2006 10:52:26 A	HM	1	VCA	VCA08210831_006.dat	25150	64085
MB-H2O	8/31/2006 11:48:00 A	HM	1	VCA	VCA08210831_007.dat	18807	56331
LCS-H2O* BTEX	8/31/2006 12:07:14 P	HM	1	VCA	VCA08210831_008.dat	16702	47732
LCS-H2O* GRO	8/31/2006 12:26:36 P	HM	1	VCA	VCA08210831_009.dat	12451	36427
EMPTY	8/31/2006 12:45:57 P	HM	1	VCA	VCA08210831_010.dat	0	512
LCS-H2O* BTEX	8/31/2006 1:41:22 P	HM	1	VCA	VCA08210831_011.dat	22058	60789
LCS-H2O* GRO	8/31/2006 2:00:38 P	HM	1	VCA	VCA08210831_012.dat	22542	65134
1064875012 C	8/31/2006 2:38:18 P	HM	1	VCA	VCA08210831_013.dat	21508	58945
	8/31/2006 2:57:54 P	HM	1	VCA	VCA08210831_014.dat	0	1105
1064852055 A	8/31/2006 3:47:36 P	HM	1	VCA	VCA08210831_015.dat	21288	57897
1064875001B	8/31/2006 4:07:05 P	HM	1	VCA	VCA08210831_016.dat	21386	57360
1064881001 A *10	8/31/2006 4:26:34 P	HM	10	VCA	VCA08210831_017.dat	22351	280673
IB	8/31/2006 5:37:06 P	HM	1	VCA	VCA08210831_018.dat	22202	64563
1065005014 A	8/31/2006 6:06:01 P	HM	1	VCA	VCA08210831_019.dat	22605	63468
1065005012 A	8/31/2006 6:25:30 P	HM	1	VCA	VCA08210831_020.dat	21217	61112
1065005013 A	8/31/2006 6:44:52 P	HM	1	VCA	VCA08210831_021.dat	20888	76594
MS 1064005012 A	8/31/2006 7:04:20 P	HM	1	VCA	VCA08210831_022.dat	23624	59808
MSD 1064005012	8/31/2006 7:23:42 P	HM	1	VCA	VCA08210831_023.dat	20675	61184
1065005013 A	8/31/2006 7:44:27 P	HM	1	VCA	VCA08210831_024.dat	23590	44366
MS 1064005012 A	8/31/2006 8:03:48 P	HM	1	VCA	VCA08210831_025.dat	21143	57226
MSD 1064005012	8/31/2006 8:23:18 P	HM	1	VCA	VCA08210831_026.dat	22252	61447
CCV2	8/31/2006 8:42:46 P	HM	1	VCA	VCA08210831_027.dat	22579	62568
EMPTY	8/31/2006 9:02:14 P	HM	1	VCA	VCA08210831_028.dat	0	554
CCV	8/31/2006 9:21:35 P	HM	1	VCA	VCA08210831_029.dat	20210	59347

Instrument: UCA Method: 101/376x Run Date: 8/31/06 Calibration Date: 8/21/06

Operator: AM Processed By: AM Posted By: MM Analytical Batch: 5010
VXX 15887

Vial	Sample Name	Dilution	Notes: Odor, Color, Dilution Formula	pH	Rerun
1	ZB				
2	C ₆ -C ₁₀				
3	ZB				
4	CCU2		High R		
5	CCU				
6	CCU2				
7	MAB H ₂ O			724470	
8	LCS H ₂ O		BTEX WJ		
9	LCS H ₂ O		GRO WJ		
10	Empty				
11	LCS H ₂ O		DTEX	724471	
12	LCS H ₂ O		GRO	724474	
13	4875-12 C				L2
14	4875-12 B				
15	4852-55 A				L2
16	4875-1 B				L2
17	4881-2A	(x10)			L2
18	ZB				
19	5005-14A				L2
20	-12A		724478		L2
21	-13A		RR FID out		L2
22	MS 5005-12A		GRO	724481	L2
23	MSD -12A	GRO →	5005-13A DFBLow	82	L2 (x1)
24	MS -12A			724479	L2
25	MSD -12A			80	L2
26	CCU2				
27	Empty				
28	CCV				

Standards: _____

Section 4.2

SGS Environmental Services
Calibration Review and Validation for Volatile fuels

JUN 27 2006

Method: AK 101 / BTEX

Analysis Date: 6.22.06

Scanned 6/28/06

Instrument: VBA

VBA 62206

Contents

Chromatograms and method reports for IB, NAS, ICV and Cal Std

Analyst initials

Reviewer Initials

DNA

(Q)

Calibration reports for Surr/BTEX/101/MTBE/Naphthalene

DNA

(Q)

Runlog EzChrom and logbook

DNA

(Q)

Logbook page reviewed

DNA

(Q)

Standards reviewed

DNA

(Q)

Validation

IB and NAS have been run in beginning of sequence

DNA

(Q)

The retention time window set correctly
GRO beginning of C6-beginning of C10

DNA

(Q)

Calibration Fit type is Average RF

DNA

(Q)

The calibration curve contains at least 5 points

DNA

(Q)

The %RSD of the response factor is <20%
The %RSD of the response factor is <10% method 602

DNA

(Q)

Dates are correct

DNA

(Q)

Force through zero is off

DNA

(Q)

MTBE + Naphthalene were not
re-target for this
calibration
6/22/06

The ICV is 85-115% recovery for BTEX/MTBE/naphthalene

DNA

(Q)

The ICV is 75-125% recovery for GRO method AK101

DNA

(Q)

The ICV is 85-115% recovery for GRO method 8015

DNA

(Q)

The audit trail is on

DNA

(Q)

GRO named peak box is unchecked

DNA

(Q)

Hand calculate response factor of BTEX (Choose one compound) using $RF = A_s \times C_{is} / A_{is} \times C_s$

Hand calculate ICV concentration of GRO using $Area/RF$

$RF = \frac{(1593)(1)}{33532} = 0.0475069$ <p>Benzene @ 1 ppb</p>	$[ICV GRO] = \frac{414474}{949.896} = 436.336$
---	--

Runlog

VBA06210622.seq

Sample ID	Date Acquired	Init.	Mult.	Instr.	Data File	aaa-TFT IS Area	4-Bromofluorobenzene... Surrogate Area
IB	6/22/2006 7:09:30 P	MCM	1	VBA	VBA060210622_022.dat	34410	41539
NAS	6/22/2006 7:34:47 P	MCM	1	VBA	VBA060210622_023.dat	35599	40596
IB	6/22/2006 7:59:59 P	MCM	1	VBA	VBA060210622_024.dat	35161	40162
IB	6/22/2006 8:25:11 P	MCM	1	VBA	VBA060210622_025.dat	35432	40757
BTEX 0.5	6/22/2006 8:50:01 P	MCM	1	VBA	VBA060210622_026.dat	35166	1637
BTEX 1.0	6/22/2006 9:15:21 P	MCM	1	VBA	VBA060210622_027.dat	35045	2677
BTEX 10	6/22/2006 9:40:25 P	MCM	1	VBA	VBA060210622_028.dat	34422	10041
BTEX 40	6/22/2006 10:05:44 P	MCM	1	VBA	VBA060210622_029.dat	35340	22572
BTEX 120	6/22/2006 10:31:15 P	MCM	1	VBA	VBA060210622_030.dat	34597	45090
BTEX 200	6/22/2006 10:56:11 P	MCM	1	VBA	VBA060210622_031.dat	35051	69081
BTEX 240	6/22/2006 11:21:08 P	MCM	1	VBA	VBA060210622_032.dat	34343	112688
IB	6/22/2006 11:46:34 P	MCM	1	VBA	VBA060210622_033.dat	32354	42592
IB	6/23/2006 12:11:45 A	MCM	1	VBA	VBA060210622_034.dat	33640	41246
IB	6/23/2006 12:37:07 A	MCM	1	VBA	VBA060210622_035.dat	33708	42233
GRO 90	6/23/2006 1:01:27 A	MCM	1	VBA	VBA060210622_036.dat	916	1731
GRO 200	6/23/2006 1:25:44 A	MCM	1	VBA	VBA060210622_037.dat	521	1292
GRO 1000	6/23/2006 1:50:07 A	MCM	1	VBA	VBA060210622_038.dat	695	4470
GRO 2400	6/23/2006 2:14:59 A	MCM	1	VBA	VBA060210622_039.dat	673	9670
GRO 4000	6/23/2006 2:39:33 A	MCM	1	VBA	VBA060210622_040.dat	763	14916
IB	6/23/2006 3:04:56 A	MCM	1	VBA	VBA060210622_041.dat	31896	42036
IB	6/23/2006 3:30:22 A	MCM	1	VBA	VBA060210622_042.dat	32342	42359
ICV BTEX	6/23/2006 3:55:54 A	MCM	1	VBA	VBA060210622_043.dat	33301	44622
ICV GRO	6/23/2006 4:21:36 A	MCM	1	VBA	VBA060210622_044.dat	33261	43598
IB	6/23/2006 4:47:05 A	MCM	1	VBA	VBA060210622_045.dat	33149	42439
IB	6/23/2006 5:12:30 A	MCM	1	VBA	VBA060210622_046.dat	33172	42420
IB	6/23/2006 9:02:22 A	MCM	1	VBA	VBA060210622_047.dat	35771	43272
IB	6/23/2006 9:27:38 A	MCM	1	VBA	VBA060210622_048.dat	33421	40792
NAS	6/23/2006 9:53:26 A	MCM	1	VBA	VBA060210622_049.dat	34884	42432
IB	6/23/2006 10:19:07 A	MCM	1	VBA	VBA060210622_050.dat	33665	41637
IB	6/23/2006 10:45:08 A	MCM	1	VBA	VBA060210622_051.dat	34312	41160
BTEX 0.5	6/23/2006 11:10:24 A	MCM	1	VBA	VBA060210622_052.dat	33886	1662
BTEX 1.0	6/23/2006 11:35:32 A	MCM	1	VBA	VBA060210622_053.dat	33532	2774
BTEX 10	6/23/2006 12:00:36 P	MCM	1	VBA	VBA060210622_054.dat	34077	10123
IB	6/23/2006 12:26:13 P	MCM	1	VBA	VBA060210622_055.dat	34666	40102
IB	6/23/2006 12:51:32 P	MCM	1	VBA	VBA060210622_056.dat	34353	40929
ICV BTEX	6/23/2006 1:17:05 P	MCM	1	VBA	VBA060210622_057.dat	34544	43810
ICV GRO	6/23/2006 1:42:23 P	MCM	1	VBA	VBA060210622_058.dat	33748	43325

6/23/2006 3:14:30 PM

1/1-1
193

Instrument: VBA Method: AK 101/BTEX Run Date: 6.22.06 Calibration Date: 6.22.06

Operator: DNA Processed By: DNA Posted By: DNA Analytical Batch: _____

Vial	Sample Name	Dilution	Notes: Odor, Color, Dilution Formula	pH	Rerun	
1	IB					
2	IB			NU		
3	NAS					
4	IB					
5	IB					
6	BTEX 0.5		TRAP Leakage MCAM ↓			
7	BTEX 1.0					
8	BTEX 10					
9	BTEX 40					
10	BTEX 120					
11	BTEX 200					
12	BTEX 240					
13	IB					
14	IB					
15	IB					
16	IB					
17	IB					
18	TEST: BTEX 1.0					
19	BTEX 1.0 Test					
20	IB					
21	IB					
22	IB			✓		
23	NAS					
24	IB					
25	IB		PARTS PREP ERROR ↓			
26	BTEX 0.5					
27	BTEX 1.0					
28	BTEX 10					
29	BTEX 40					
30	BTEX 120					
31	BTEX 200					
32	BTEX 240					
33	IB					
34	IB					
35	IB					

Standards: Vwb. 70.2 (DFIB) Vwb. 61.1 (BFIB) Vwb. 63.1 (IS)
Vwb. 12.5 (NAS) Vwb. 62.4 (CC2) Vwb. 30.2 (CC)
Vwb. 53.2 (LCS GRO) Vwb. 74.1 (LCS BTEX)

Instrument: VBA Method: AK 10/BTEX Run Date: 6.22.06 Calibration Date: 6.22.06

Operator: _____ Processed By: _____ Posted By: _____ Analytical Batch: _____

Vial	Sample Name	Dilution	Notes: Odor, Color, Dilution Formula	pH	Rerun
36	GRO 90		Good		
37	GRO 200				
38	GRO 1000				
39	GRO 2400				
40	GRO 4000				
41	IB				
42	IB				
43	ICV BTEX		NM		
44	ICV GRO				
45	IB				
46	IB				
DWA 6.22.06					
See next page					

Standards: _____

Instrument: VBA Method: AK 101/BTEX Run Date: 6.22.06 Calibration Date: 6.22.06

Operator: DNA Processed By: DNA Posted By: _____ Analytical Batch: _____

Vial	Sample Name	Dilution	Notes: Odor, Color, Dilution Formula	pH	Rerun
47	IB				
48	IB				
49	NAS				
50	IB				
51	IB				
52	BTEX 0.5		} Good		
53	BTEX 1.0				
54	BTEX 10				
55	IB				
56	IB				
57	ICV BTEX				
58	ICV GRO				
59	IB		DNA 6.23.06		

DNA
6.23.06

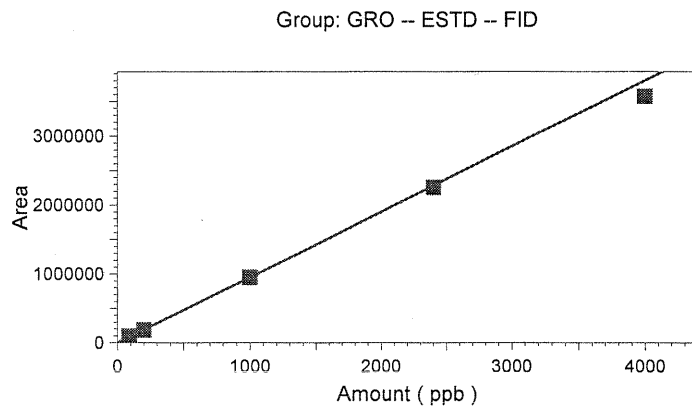
Standards: _____

Calibration Report

Method: E:\Public\2006\06\VBA\Method\VBA062206.met
 Print Time: 6/23/2006 2:48:20 PM
 User: MCM
 Instrument: VBA (Offline)

GRO (FID)
 Average RF: 949.896 RF StDev: 56.6415 RF %RSD: 5.96291
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 949.896



	Level 8	Level 9	Level 10	Level 11	Level 12
Amount	90	200	1000	2400	4000
Area	93949	185112	948896	2252394	3570594
RF	1043.877777 77778	925.56	948.896	938.4975	892.6485
Last Area Residual	-8.90452	5.12392	1.0527	28.7993	241.068
Rep StDev					
Rep %RSD					
Rep 1 Area	93949	185112	948896	2252394	3570594
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\06\VBA\Data\062106\VB A060210622_036.dat	E:\Public\2006\06\VBA\Data\062106\VBA060 210622_037.dat	E:\Public\2006\06\VBA\Data\062106\VBA06021 0622_038.dat	E:\Public\2006\06\VBA\Data\062106\VBA06021 0622_039.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_040 .dat
Rep 1 Sample ID	GRO 90	GRO 200	GRO 1000	GRO 2400	GRO 4000
Rep 1 Calib. Time	6/23/2006 2:47:28 PM	6/23/2006 2:47:33 PM	6/23/2006 2:47:37 PM	6/23/2006 2:47:41 PM	6/23/2006 2:47:46 PM

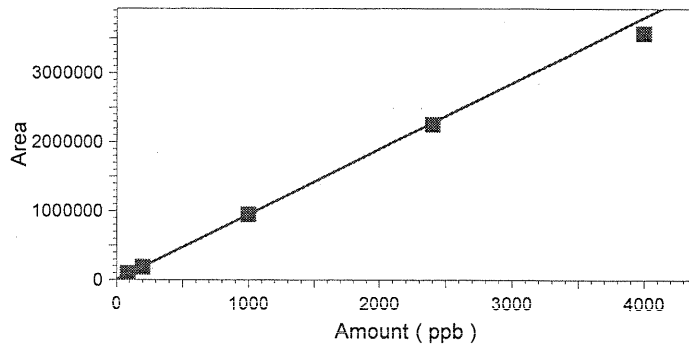
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Method: E:\Public\2006\06\VBA\Method\VBA062206.met
 Print Time: 6/23/2006 2:48:21 PM
 User: MCM
 Instrument: VBA (Offline)

GRO and Surr (FID)
 Average RF: 949.896 RF StDev: 56.6415 RF %RSD: 5.96291
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 949.896

Group: GRO and Surr -- ESTD -- FID



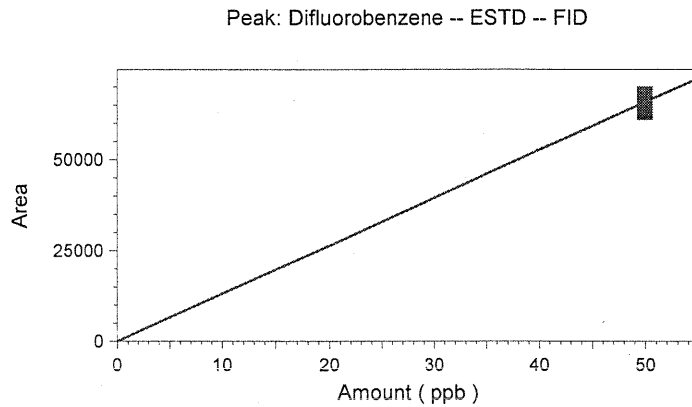
	Level 8	Level 9	Level 10	Level 11	Level 12
Amount	90	200	1000	2400	4000
Area	93949	185112	948896	2252394	3570594
RF	1043.877777	925.56	948.896	938.4975	892.6485
	77778				
Last Area					
Residual	-8.90452	5.12392	1.0527	28.7993	241.068
Rep StDev					
Rep %RSD					
Rep 1 Area	93949	185112	948896	2252394	3570594
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\06\VBA\Data\062106\VBA060210622_036.dat	E:\Public\2006\06\VBA\Data\062106\VBA06210622_037.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_038.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_039.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_040.dat
Rep 1 Sample ID	GRO 90	GRO 200	GRO 1000	GRO 2400	GRO 4000
Rep 1 Calib. Time	6/23/2006 2:47:28 PM	6/23/2006 2:47:33 PM	6/23/2006 2:47:37 PM	6/23/2006 2:47:41 PM	6/23/2006 2:47:46 PM

Calibration Report

Method: E:\Public\2006\06\VBA\Method\VBA062206.met
 Print Time: 6/23/2006 2:35:20 PM
 User: MCM
 Instrument: VBA (Offline)

Difluorobenzene (FID)
 Average RF: 1316.52 RF StDev: 40.6430 RF %RSD: 3.08716
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 1316.52



	Level 3	Level 4	Level 5	Level 6	Level 7
Amount	50	50	50	50	50
Area	65881	62961	64838	67477	67972
RF	1317.62	1259.22	1296.76	1349.54	1359.44
Last Area					
Residual	-0.0419288	2.17605	0.750314	-1.25422	-1.63021
Rep StDev					
Rep %RSD					
Rep 1 Area	65881	62961	64838	67477	67972
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\06\VBA\Data\062106\VBA060210622_054.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_029.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_030.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_031.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_032.dat
Rep 1 Sample ID	BTEX 10	BTEX 40	BTEX 120	BTEX 200	BTEX 240
Rep 1 Calib. Time	6/23/2006 12:14:23 PM	6/23/2006 11:34:47 AM	6/23/2006 11:34:51 AM	6/23/2006 11:34:56 AM	6/23/2006 11:35:01 AM

Calibration Report

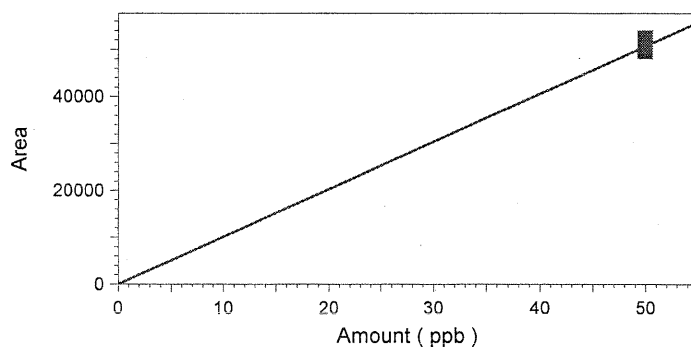
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 Print Time: 6/23/2006 2:35:21 PM
 User: MCM
 Instrument: VBA (Offline)

aaa-tft (FID)

Average RF: 1013.30 RF StDev: 18.9578 RF %RSD: 1.87090
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 1013.30

Peak: aaa-tft -- ESTD -- FID



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	50	50	50	50	50
Area	49968	49659	50107	50540	50560
RF	999.36	993.18	1002.14	1010.8	1011.2
Last Area					
Residual	0.687713	0.992658	0.550537	0.123219	0.103481
Rep StDev					
Rep %RSD					
Rep 1 Area	49968	49659	50107	50540	50560
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\06\VBA\Data\062106\VB A060210622_052.dat	E:\Public\2006\06\VBA\Data\062106\VB A060210622_053.dat	E:\Public\2006\06\VBA\Data\062106\VB A060210622_054.dat	E:\Public\2006\06\VBA\Data\062106\VB A060210622_029.dat	E:\Public\2006\06\VBA\Data\062106\VB A060210622_030.dat
Rep 1 Sample ID	BTEX 0.5	BTEX 1.0	BTEX 10	BTEX 40	BTEX 120
Rep 1 Calib. Time	6/23/2006 11:35:27 AM	6/23/2006 12:00:34 PM	6/23/2006 12:14:23 PM	6/23/2006 11:34:47 AM	6/23/2006 11:34:51 AM
	Level 6	Level 7			
Amount	50	50			
Area	52387	51433			

Calibration Report

Method: E:\Public\2006\06\VBA\Method\VBA062206.met
 Print Time: 6/23/2006 2:35:21 PM
 User: MCM
 Instrument: VBA (Offline)

RF	1047.74	1028.66
Last Area		
Residual	-1.69954	-0.758063
Rep StDev		
Rep %RSD		
Rep 1 Area	52387	51433
Rep 1 User	MCM	MCM
Rep 1 Data File	E:\Public\2006\06\VBA\Data\062106\VBA06210622_031.dat	E:\Public\2006\06\VBA\Data\062106\VBA06210622_032.dat
Rep 1 Sample ID	BTEX 200	BTEX 240
Rep 1 Calib. Time	6/23/2006 11:34:56 AM	6/23/2006 11:35:01 AM

Calibration Report

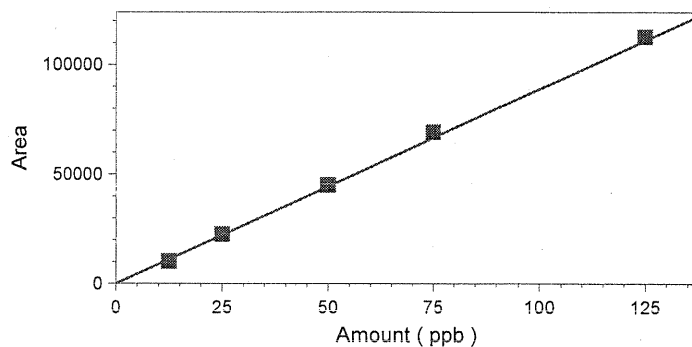
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 Print Time: 6/23/2006 2:35:21 PM
 User: MCM
 Instrument: VBA (Offline)

4-Bromofluorobenzene <Surr> (FID)

Average RF: 887.421 RF StDev: 44.1469 RF %RSD: 4.97475
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 887.421

Peak: 4-Bromofluorobenzene <Surr> -- ESTD -- FID



	Level 3	Level 4	Level 5	Level 6	Level 7
Amount	12.5	25	50	75	125
Area	10123	22572	45090	69081	112688
RF	809.84	902.88	901.8	921.08	901.504
Last Area					
Residual	1.09278	-0.435509	-0.810168	-2.84469	-1.98373
Rep StDev					
Rep %RSD					
Rep 1 Area	10123	22572	45090	69081	112688
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\06\VBA\Data\062106\VBA060210622_054.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_029.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_030.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_031.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_032.dat
Rep 1 Sample ID	BTEX 10	BTEX 40	BTEX 120	BTEX 200	BTEX 240
Rep 1 Calib. Time	6/23/2006 12:14:23 PM	6/23/2006 11:34:47 AM	6/23/2006 11:34:51 AM	6/23/2006 11:34:56 AM	6/23/2006 11:35:01 AM

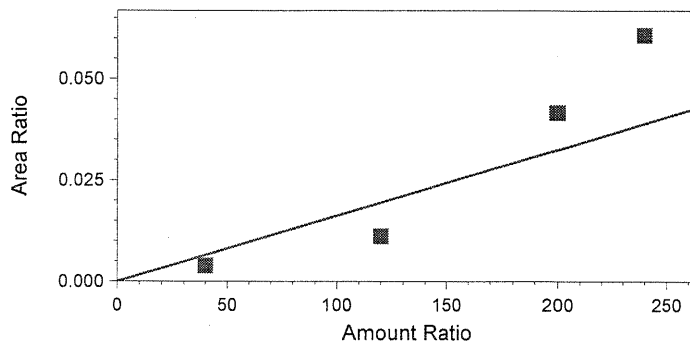
Calibration Report

Method: E:\Public\2006\06\VBA\Method\VBA062206.met
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 User: MCM
 Instrument: VBA (Offline)

Methyl-t-butyl ether (PID)
 Average RF: 0.000162412 RF StDev: 8.07210e-005 RF %RSD: 49.7014
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 0.000162412

Peak: Methyl-t-butyl ether -- ISTD -- PID



	Level 2	Level 3	Level 4	Level 5	Level 6
Amount Ratio	1	10	40	120	200
Area Ratio			0.00384833	0.0110992	0.0415965
RF			9.620826259196 38e-005	9.249356880654 39e-005	0.0002079826 53847251
Last Area Ratio					
Residual	N/A	N/A	16.3051	51.66	-56.1176
Rep StDev					
Rep %RSD					
Rep 1 Area Ratio			0.00384833	0.0110992	0.0415965
Rep 1 User			MCM	MCM	MCM
Rep 1 Data File			E:\Public\2006\0 6\VBA\Data\062 106\VBA06021 0622_029.dat	E:\Public\2006\0 6\VBA\Data\062 106\VBA06021 0622_030.dat	E:\Public\2006 \06\VBA\Data\ 062106\VBA0 60210622_031 .dat
Rep 1 Sample ID			BTEX 40	BTEX 120	BTEX 200
Rep 1 Calib. Time			6/23/2006 11:34:47 AM	6/23/2006 11:34:51 AM	6/23/2006 11:34:56 AM

	Level 7
Amount Ratio	240

Calibration Report

Method: E:\Public\2006\06\VBA\Method\VBA062206.met
Print Time: 6/23/2006 2:35:26 PM
User: MCM
Instrument: VBA (Offline)

Area Ratio	0.0607111
RF	0.000252962
	758058411
Last Area Ratio	
Residual	-133.809
Rep StDev	
Rep %RSD	
Rep 1 Area Ratio	0.0607111
Rep 1 User	MCM
Rep 1 Data File	E:\Public\2006\06\VBA\Da ta\062106\VB A060210622_ 032.dat
Rep 1 Sample ID	BTEX 240
Rep 1 Calib. Time	6/23/2006 11:35:01 AM

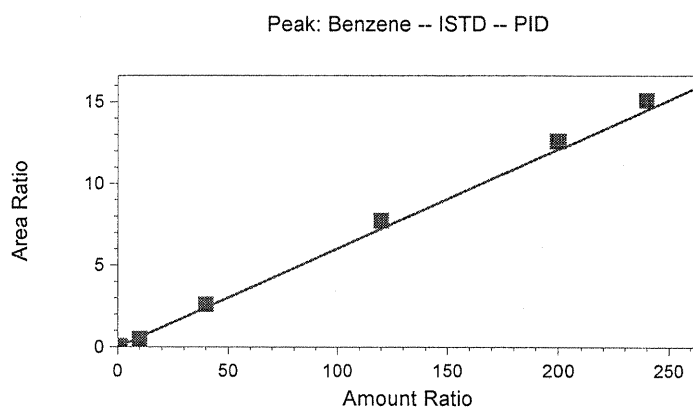
Calibration Report

Method: E:\Public\2006\06\VBA\Method\VBA062206.met
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 User: MCM
 Instrument: VBA (Offline)

Benzene (PID)

Average RF: 0.0604152 RF StDev: 0.00862273 RF %RSD: 14.2725
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 0.0604152



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount Ratio	0.5	1	10	40	120
Area Ratio	0.0353833	0.0475069	0.493412	2.59938	7.73018
RF	0.070766688	0.04750685911	0.049341197875	0.064984436898	0.0644181576
	3078557	96469	3998	6984	437263
Last Area Ratio					
Residual	-0.0856697	0.21366	1.83298	-3.02524	-7.95093
Rep StDev					
Rep %RSD					
Rep 1 Area Ratio	0.0353833	0.0475069	0.493412	2.59938	7.73018
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\06\VBA\Data\062106\VBA060210622_052.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_053.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_054.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_029.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_030.dat
Rep 1 Sample ID	BTEX 0.5	BTEX 1.0	BTEX 10	BTEX 40	BTEX 120
Rep 1 Calib. Time	6/23/2006 11:35:27 AM	6/23/2006 12:00:34 PM	6/23/2006 12:14:23 PM	6/23/2006 11:34:47 AM	6/23/2006 11:34:51 AM
	Level 6	Level 7			
Amount Ratio	200	240			

Calibration Report

Method: E:\Public\2006\06\VBA\Method\VBA062206.met
 Print Time: 6/23/2006 2:35:26 PM
 User: MCM
 Instrument: VBA (Offline)

Area Ratio	12.5934	15.1013
RF	0.062966962	0.06292196857
	426179	19555
Last Area Ratio		
Residual	-8.44748	-9.95824
Rep StDev		
Rep %RSD		
Rep 1 Area Ratio	12.5934	15.1013
Rep 1 User	MCM	MCM
Rep 1 Data File	E:\Public\2006\06\VBA\Data\062106\VBA060210622_031.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_032.dat
Rep 1 Sample ID	BTEX 200	BTEX 240
Rep 1 Calib. Time	6/23/2006 11:34:56 AM	6/23/2006 11:35:01 AM

Calibration Report

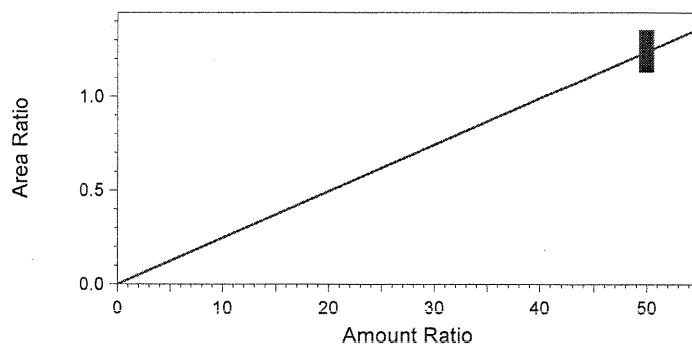
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 Print Time: 6/23/2006 2:35:27 PM
 User: MCM
 Instrument: VBA (Offline)

1,4-Difluorobenzene <Surr/IS> (PID)

Average RF: 0.0247477 RF StDev: 0.000996184 RF %RSD: 4.02537
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 0.0247477

Peak: 1,4-Difluorobenzene <Surr/IS> -- ISTD -- PID



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount Ratio	50	50	50	50	50
Area Ratio	1.2357	1.21162	1.23239	1.16873	1.20918
RF	0.024714041	0.02423237504	0.024647709598	0.023374646293	0.0241835997
	1969545	47334	8497	1522	34081
Last Area Ratio					
Residual	0.0679074	1.04106	0.201923	2.77401	1.13961
Rep StDev					
Rep %RSD					
Rep 1 Area Ratio	1.2357	1.21162	1.23239	1.16873	1.20918
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\06\VBA\Data\062106\VBA060210622_052.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_053.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_054.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_029.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_030.dat
Rep 1 Sample ID	BTEX 0.5	BTEX 1.0	BTEX 10	BTEX 40	BTEX 120
Rep 1 Calib. Time	6/23/2006 11:35:27 AM	6/23/2006 12:00:34 PM	6/23/2006 12:14:23 PM	6/23/2006 11:34:47 AM	6/23/2006 11:34:51 AM
	Level 6	Level 7			
Amount Ratio	50	50			

Calibration Report

Method: E:\Public\2006\06\VBA\Method\VBA062206.met
 Print Time: 6/23/2006 2:35:27 PM
 User: MCM
 Instrument: VBA (Offline)

Area Ratio	1.28924	1.31482
RF	0.025784713	0.02629647963
	7028901	19483
Last Area Ratio		
Residual	-2.09527	-3.12924
Rep StDev		
Rep %RSD		
Rep 1 Area Ratio	1.28924	1.31482
Rep 1 User	MCM	MCM
Rep 1 Data File	E:\Public\2006\06\VBA\Data\062106\VB	E:\Public\2006\06\VBA\Data\062106\VB
	A060210622_031.dat	210622_032.dat
Rep 1 Sample ID	BTEX 200	BTEX 240
Rep 1 Calib. Time	6/23/2006	6/23/2006
	11:34:56 AM	11:35:01 AM

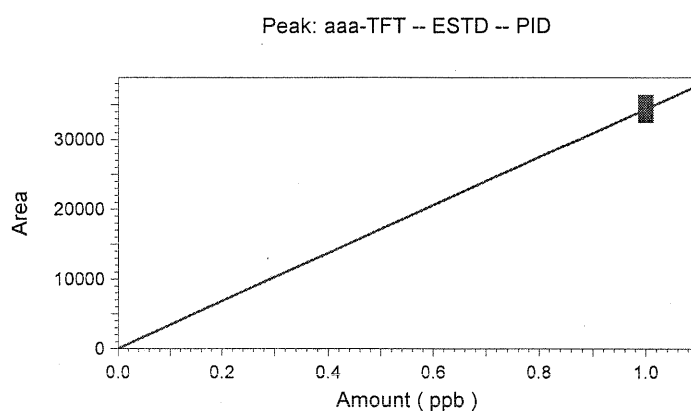
Calibration Report

Method: E:\Public\2006\06\VBA\Method\VBA062206.met
 Print Time: 6/23/2006 2:35:27 PM
 User: MCM
 Instrument: VBA (Offline)

aaa-TFT (PID)

Average RF: 34403.7 RF StDev: 641.783 RF %RSD: 1.86545
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 34403.7



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	1	1	1	1	1
Area	33886	33532	34077	35340	34597
RF	33886	33532	34077	35340	34597
Last Area					
Residual	0.0150482	0.0253378	0.00949648	-0.0272147	-0.00561816
Rep StDev					
Rep %RSD					
Rep 1 Area	33886	33532	34077	35340	34597
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\06\VBA\Data\062106\VB A060210622_052.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_053.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_054.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_029.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_030.dat
Rep 1 Sample ID	BTEX 0.5	BTEX 1.0	BTEX 10	BTEX 40	BTEX 120
Rep 1 Calib. Time	6/23/2006 11:35:27 AM	6/23/2006 12:00:34 PM	6/23/2006 12:14:23 PM	6/23/2006 11:34:47 AM	6/23/2006 11:34:51 AM
	Level 6	Level 7			
Amount	1	1			
Area	35051	34343			

Calibration Report

Method: E:\Public\2006\06\VBA\Method\VBA062206.met
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 User: MCM
 Instrument: VBA (Offline)

RF	35051	34343
Last Area		
Residual	-0.0188144	0.00176476
Rep StDev		
Rep %RSD		
Rep 1 Area	35051	34343
Rep 1 User	MCM	MCM
Rep 1 Data File	E:\Public\2006\06\VBA\Data\062106\VBA060210622_031.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_032.dat
Rep 1 Sample ID	BTEX 200	BTEX 240
Rep 1 Calib. Time	6/23/2006 11:34:56 AM	6/23/2006 11:35:01 AM

Calibration Report

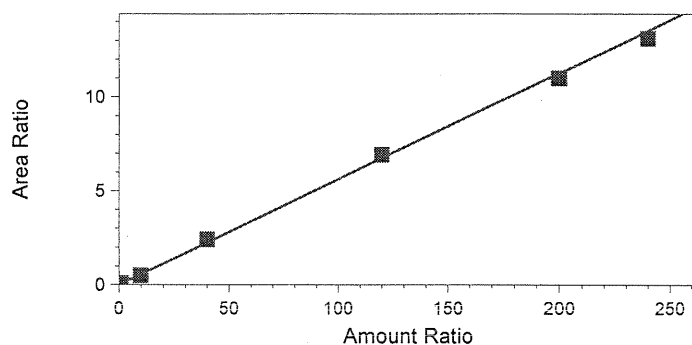
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 User: MCM
 Instrument: VBA (Offline)

Toluene (PID)

Average RF: 0.0562663 RF StDev: 0.00468023 RF %RSD: 8.31800
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 0.0562663

Peak: Toluene -- ISTD -- PID



	Level 2	Level 3	Level 4	Level 5	Level 6
Amount Ratio	1	10	40	120	200
Area Ratio	0.0614339	0.48587	2.41769	6.91332	10.9912
RF	0.061433854	0.04858702350	0.060442133559	0.057610968195	0.0549560640
	2287964	55903	7057	701	20998
Last Area Ratio					
Residual	-0.0918414	1.36481	-2.96864	-2.86783	4.6572
Rep StDev					
Rep %RSD					
Rep 1 Area Ratio	0.0614339	0.48587	2.41769	6.91332	10.9912
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\06\VBA\Data\062106\VBA060210622_053.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_054.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_029.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_030.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_031.dat
Rep 1 Sample ID	BTEX 1.0	BTEX 10	BTEX 40	BTEX 120	BTEX 200
Rep 1 Calib. Time	6/23/2006 12:00:34 PM	6/23/2006 12:14:23 PM	6/23/2006 11:34:47 AM	6/23/2006 11:34:51 AM	6/23/2006 11:34:56 AM

	Level 7
Amount Ratio	240

Calibration Report

Method: E:\Public\2006\06\VBA\Method\VBA062206.met
Print Time: 6/23/2006 2:35:28 PM
User: MCM
Instrument: VBA (Offline)

Area Ratio	13.0962
RF	0.054567646
	0025818
Last Area Ratio	
Residual	7.24541
Rep StDev	
Rep %RSD	
Rep 1 Area Ratio	13.0962
Rep 1 User	MCM
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Rep 1 Calib. Time	6/23/2006 11:35:01 AM

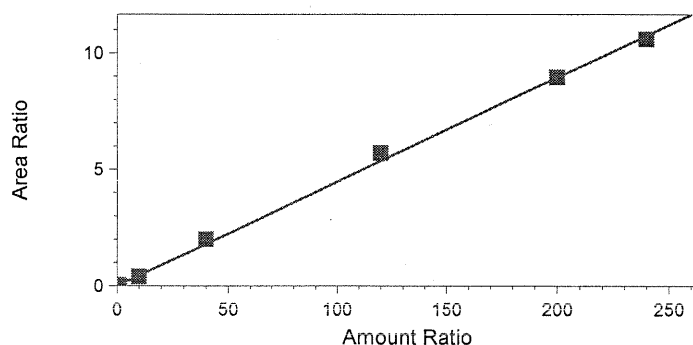
Calibration Report

Method: E:\Public\2006\06\VBA\Method\VBA062206.met
 Print Time: 6/23/2006 2:35:28 PM
 User: MCM
 Instrument: VBA (Offline)

Ethylbenzene (PID)
 Average RF: 0.0447639 RF StDev: 0.00379519 RF %RSD: 8.47824
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 0.0447639

Peak: Ethylbenzene -- ISTD -- PID



	Level 2	Level 3	Level 4	Level 5	Level 6
Amount Ratio	1	10	40	120	200
Area Ratio	0.0430037	0.390205	2.00141	5.70628	8.96245
RF	0.043003697	0.03902045367	0.050035370684	0.047552292587	0.0448122735
	9601575	84341	7765	9893	442641
Last Area Ratio					
Residual	0.039321	1.28304	-4.71051	-7.47506	-0.216324
Rep StDev					
Rep %RSD					
Rep 1 Area Ratio	0.0430037	0.390205	2.00141	5.70628	8.96245
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\06\VBA\Data\062106\VBA060210622_053.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_054.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_029.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_030.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_031.dat
Rep 1 Sample ID	BTEX 1.0	BTEX 10	BTEX 40	BTEX 120	BTEX 200
Rep 1 Calib. Time	6/23/2006 12:00:34 PM	6/23/2006 12:14:23 PM	6/23/2006 11:34:47 AM	6/23/2006 11:34:51 AM	6/23/2006 11:34:56 AM

Level 7	
Amount Ratio	240

Calibration Report

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Print Time: 6/23/2006 2:35:28 PM

User: MCM

Instrument: VBA (Offline)

Area Ratio	10.5982
RF	0.044159047
	452659
Last Area Ratio	
Residual	3.24266
Rep StDev	
Rep %RSD	
Rep 1 Area Ratio	10.5982
Rep 1 User	MCM
Rep 1 Data File	E:\Public\2006\06\VBA\Data\062106\VBA060210622_032.dat
Rep 1 Sample ID	BTEX 240
Rep 1 Calib. Time	6/23/2006 11:35:01 AM

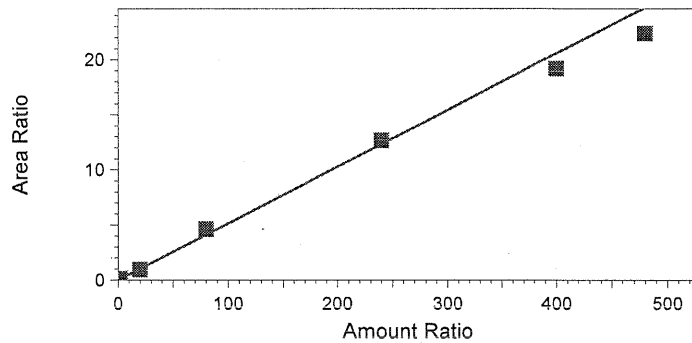
Calibration Report

Method: E:\Public\2006\06\VBA\Method\VBA062206.met
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 User: MCM
 Instrument: VBA (Offline)

P & M -Xylene (PID)
 Average RF: 0.0514225 RF StDev: 0.00484573 RF %RSD: 9.42337
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 0.0514225

Peak: P & M -Xylene -- ISTD -- PID



	Level 2	Level 3	Level 4	Level 5	Level 6
Amount Ratio	2	20	80	240	400
Area Ratio	0.11234	0.945917	4.62334	12.6595	19.1797
RF	0.056170225	0.04729583003	0.057791808149	0.052747709338	0.0479492025
	4562806	19864	4058	96	90511
Last Area Ratio					
Residual	-0.184655	1.60501	-9.90897	-6.185	27.0178
Rep StDev					
Rep %RSD					
Rep 1 Area Ratio	0.11234	0.945917	4.62334	12.6595	19.1797
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\06\VBA\Data\062106\VBA060210622_053.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_054.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_029.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_030.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_031.dat
Rep 1 Sample ID	BTEX 1.0	BTEX 10	BTEX 40	BTEX 120	BTEX 200
Rep 1 Calib. Time	6/23/2006 12:00:34 PM	6/23/2006 12:14:23 PM	6/23/2006 11:34:47 AM	6/23/2006 11:34:51 AM	6/23/2006 11:34:56 AM

	Level 7
Amount Ratio	480

Calibration Report

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Print Time: 6/23/2006 2:35:29 PM

User: MCM

Instrument: VBA (Offline)

Area Ratio	22.3585
RF	0.046580271
	0887226
Last Area Ratio	
Residual	45.1995
Rep StDev	
Rep %RSD	
Rep 1 Area Ratio	22.3585
Rep 1 User	MCM
Rep 1 Data File	E:\Public\2006\06\VBA\Data\062106\VBA060210622_032.dat
Rep 1 Sample ID	BTEX 240
Rep 1 Calib. Time	6/23/2006 11:35:01 AM

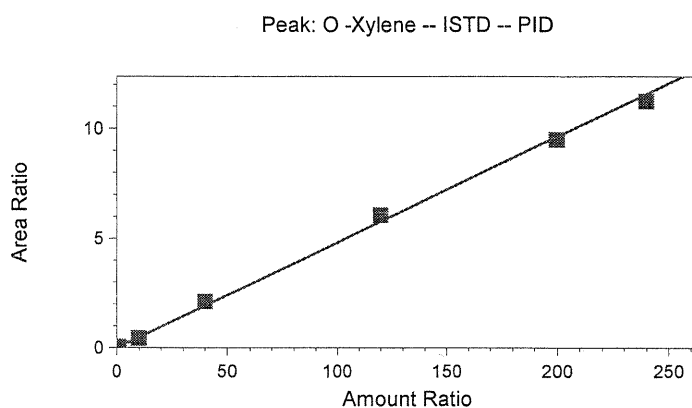
Calibration Report

Method: E:\Public\2006\06\VBA\Method\VBA062206.met
 Print Time: 6/23/2006 2:35:29 PM
 User: MCM
 Instrument: VBA (Offline)

O -Xylene (PID)

Average RF: 0.0481683 RF StDev: 0.00320460 RF %RSD: 6.65293
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 0.0481683



	Level 2	Level 3	Level 4	Level 5	Level 6
Amount Ratio	1	10	40	120	200
Area Ratio	0.0482226	0.433577	2.1075	6.05902	9.48894
RF	0.048222593	0.04335768993	0.052687464629	0.050491853821	0.0474447234
	3436717	74945	3152	6223	030413
Last Area Ratio					
Residual	-0.00112703	0.99871	-3.75281	-5.78857	3.00439
Rep StDev					
Rep %RSD					
Rep 1 Area Ratio	0.0482226	0.433577	2.1075	6.05902	9.48894
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\06\VBA\Data\062106\VB A060210622_053.dat	E:\Public\2006\06\VBA\Data\062106\VB A060210622_054.dat	E:\Public\2006\06\VBA\Data\062106\VB A060210622_029.dat	E:\Public\2006\06\VBA\Data\062106\VB A060210622_030.dat	E:\Public\2006\06\VBA\Data\062106\VB A060210622_031.dat
Rep 1 Sample ID	BTEX 1.0	BTEX 10	BTEX 40	BTEX 120	BTEX 200
Rep 1 Calib. Time	6/23/2006 12:00:34 PM	6/23/2006 12:14:23 PM	6/23/2006 11:34:47 AM	6/23/2006 11:34:51 AM	6/23/2006 11:34:56 AM
	Level 7				
Amount Ratio	240				

Calibration Report

Method: E:\Public\2006\06\VBA\Method\VBA062206.met
Print Time: 6/23/2006 2:35:29 PM
User: MCM
Instrument: VBA (Offline)

Area Ratio	11.2333
RF	0.046805511
	0696988
Last Area Ratio	
Residual	6.79017
Rep StDev	
Rep %RSD	
Rep 1 Area Ratio	11.2333
Rep 1 User	MCM
Rep 1 Data File	E:\Public\2006\06\VBA\Data\062106\VBA060210622_032.dat
Rep 1 Sample ID	BTEX 240
Rep 1 Calib. Time	6/23/2006 11:35:01 AM

Calibration Report

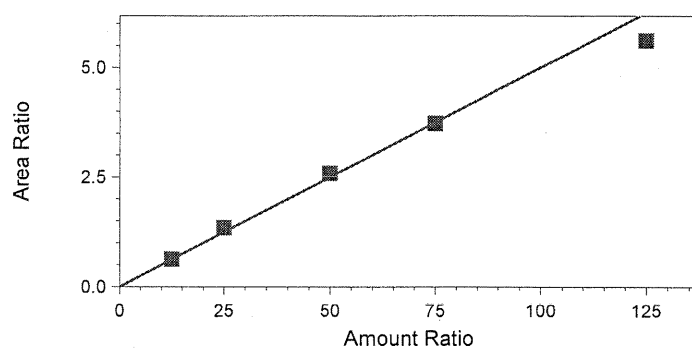
Method: E:\Public\2006\06\VBA\Method\VBA062206.met
 Print Time: 6/23/2006 2:35:30 PM
 User: MCM
 Instrument: VBA (Offline)

4-bfb (PID)

Average RF: 0.0499842 RF StDev: 0.00324964 RF %RSD: 6.50133
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 0.0499842

Peak: 4-bfb -- ISTD -- PID



	Level 3	Level 4	Level 5	Level 6	Level 7
Amount Ratio	12.5	25	50	75	125
Area Ratio	0.625789	1.34154	2.58277	3.72269	5.61314
RF	0.050063092	0.05366157328	0.051655345839	0.049635863931	0.0449051043
	4083693	80589	2346	6044	880849
Last Area Ratio					
Residual	-0.0197303	-1.83927	-1.67168	0.522663	12.7017
Rep StDev					
Rep %RSD					
Rep 1 Area Ratio	0.625789	1.34154	2.58277	3.72269	5.61314
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\06\VBA\Data\062106\VBA060210622_054.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_029.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_030.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_031.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_032.dat
Rep 1 Sample ID	BTEX 10	BTEX 40	BTEX 120	BTEX 200	BTEX 240
Rep 1 Calib. Time	6/23/2006 12:14:23 PM	6/23/2006 11:34:47 AM	6/23/2006 11:34:51 AM	6/23/2006 11:34:56 AM	6/23/2006 11:35:01 AM

Calibration Report

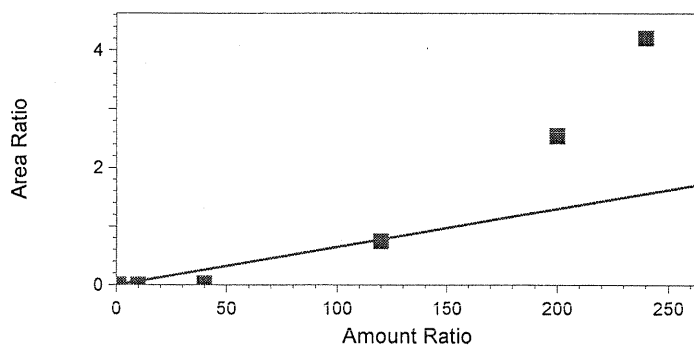
Method: E:\Public\2006\06\VBA\Method\VBA062206.met
 Print Time: 6/23/2006 2:35:30 PM
 User: MCM
 Instrument: VBA (Offline)

Naphthalene (PID)

Average RF: 0.00649145 RF StDev: 0.00717319 RF %RSD: 110.502
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 0.00649145

Peak: Naphthalene -- ISTD -- PID



	Level 2	Level 3	Level 4	Level 5	Level 6
Amount Ratio	1	10	40	120	200
Area Ratio	0.00178934	0.00202483	0.0220996	0.74177	2.5399
RF	0.001789335	0.00020248261	0.000552490096	0.006181412646	0.0126994950
	56006203	2906066	208263	56859	2154
Last Area Ratio					
Residual	0.724355	9.68808	36.5956	5.73125	-191.269
Rep StDev					
Rep %RSD					
Rep 1 Area Ratio	0.00178934	0.00202483	0.0220996	0.74177	2.5399
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\06\VBA\Data\062106\VBA060210622_053.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_054.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_029.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_030.dat	E:\Public\2006\06\VBA\Data\062106\VBA060210622_031.dat
Rep 1 Sample ID	BTEX 1.0	BTEX 10	BTEX 40	BTEX 120	BTEX 200
Rep 1 Calib. Time	6/23/2006 12:00:34 PM	6/23/2006 12:14:23 PM	6/23/2006 11:34:47 AM	6/23/2006 11:34:51 AM	6/23/2006 11:34:56 AM

	Level 7
Amount Ratio	240

Calibration Report

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Print Time: 6/23/2006 2:35:30 PM

User: MCM

Instrument: VBA (Offline)

Area Ratio	4.20563
RF	0.017523464
	2673422
Last Area Ratio	
Residual	-407.873
Rep StDev	
Rep %RSD	
Rep 1 Area Ratio	4.20563
Rep 1 User	MCM
Rep 1 Data File	E:\Public\2006\06\VBA\Da ta\062106\VB A060210622_ 032.dat
Rep 1 Sample ID	BTEX 240
Rep 1 Calib. Time	6/23/2006 11:35:01 AM

SGS Environmental Services Inc.

Sample Name: IB

Date/Time: 6/22/2006 7:09:30 PM

Analyst:

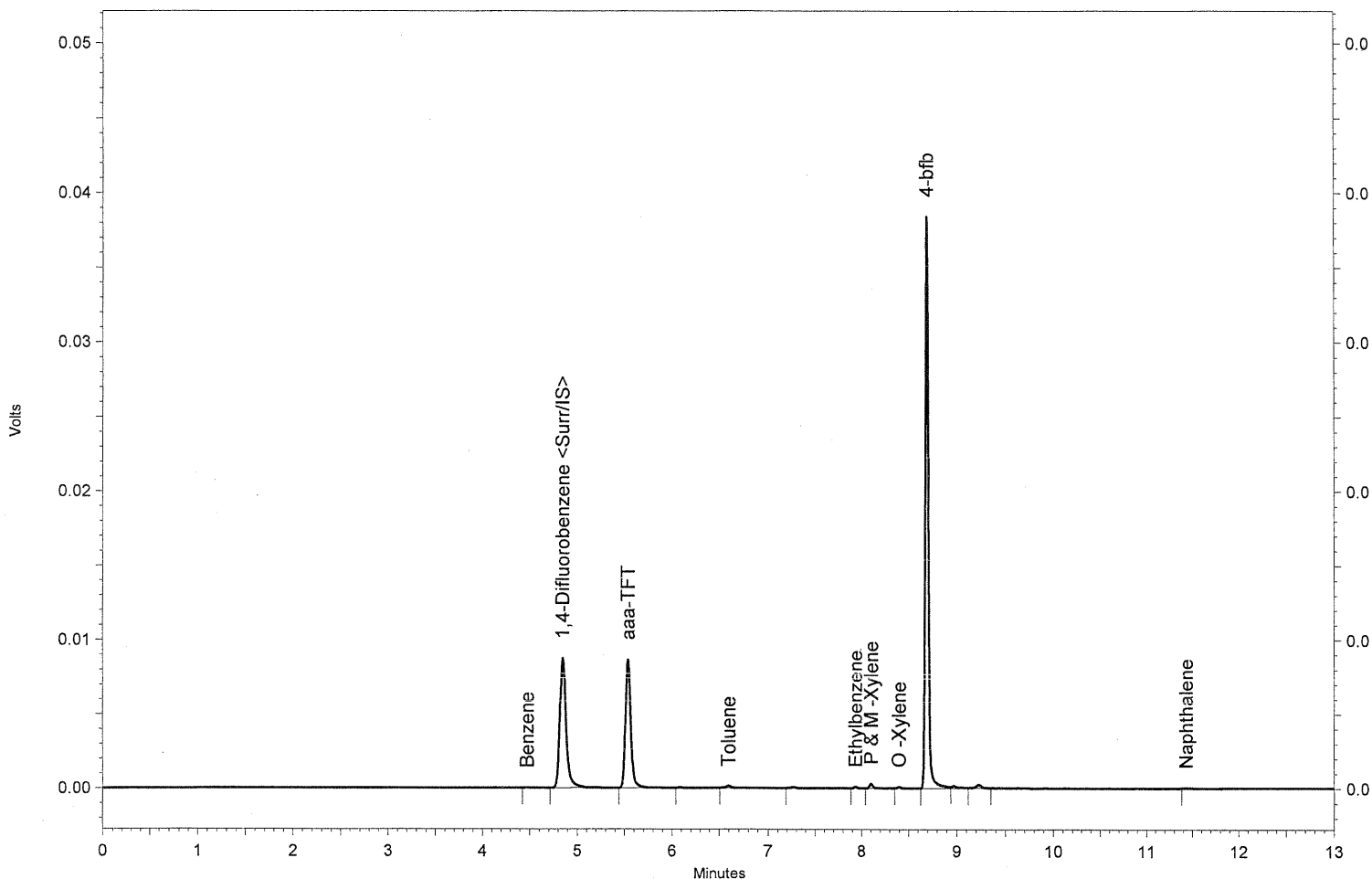
MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_022.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.477	101	0.049 LC	ppb	BB
1,4-Difluorobenzene <Surr/IS>	4.850	41066	48.224	ppb	BB
aaa-TFT	5.540	34410	0.000	ppb	BB
Toluene	6.600	467	0.241 LC	ppb	BB
Ethylbenzene	7.937	240	0.156 LC	ppb	BB
P & M -Xylene	8.107	750	0.424 LC	ppb	BB
O -Xylene	8.400	215	0.130 LC	ppb	BB
4-bfb	8.690	91413	53.148	ppb	BV
Naphthalene	11.433	85	0.381 LC	ppb	BB

SGS Environmental Services Inc.

Sample Name: IB

Date/Time: 6/22/2006 7:09:30 PM

Analyst:

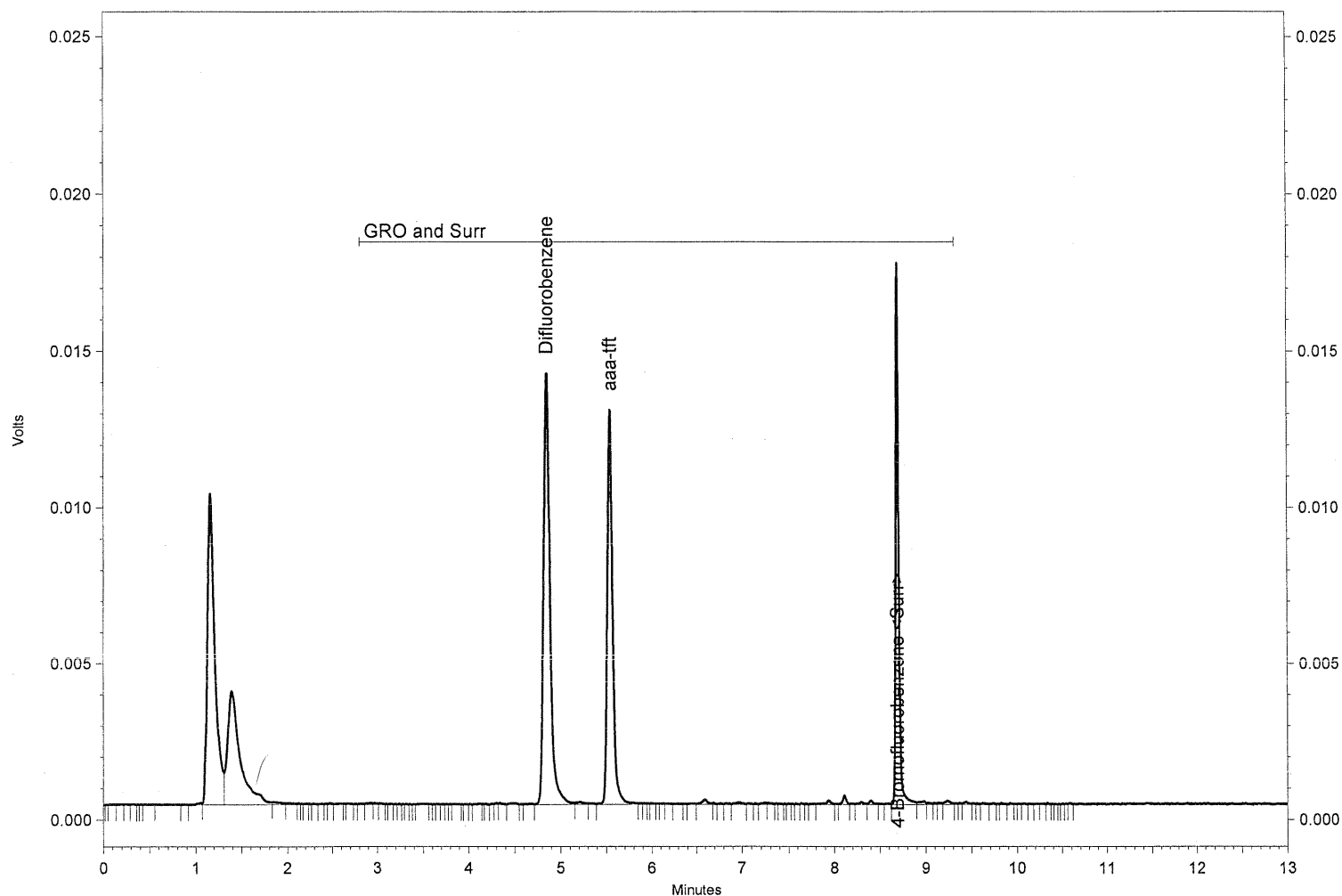
MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_022.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.850	66325	50.379	ppb	LL
aaa-tft	5.540	51280	50.607	ppb	LL
4-Bromofluorobenzene <Surr>	8.693	41539	46.809	ppb	LL
GRO		11162	11.751 LC	ppb	
GRO and Surr		170306	179.289	ppb	

SGS Environmental Services Inc.

Sample Name: NAS

Date/Time: 6/22/2006 7:34:47 PM

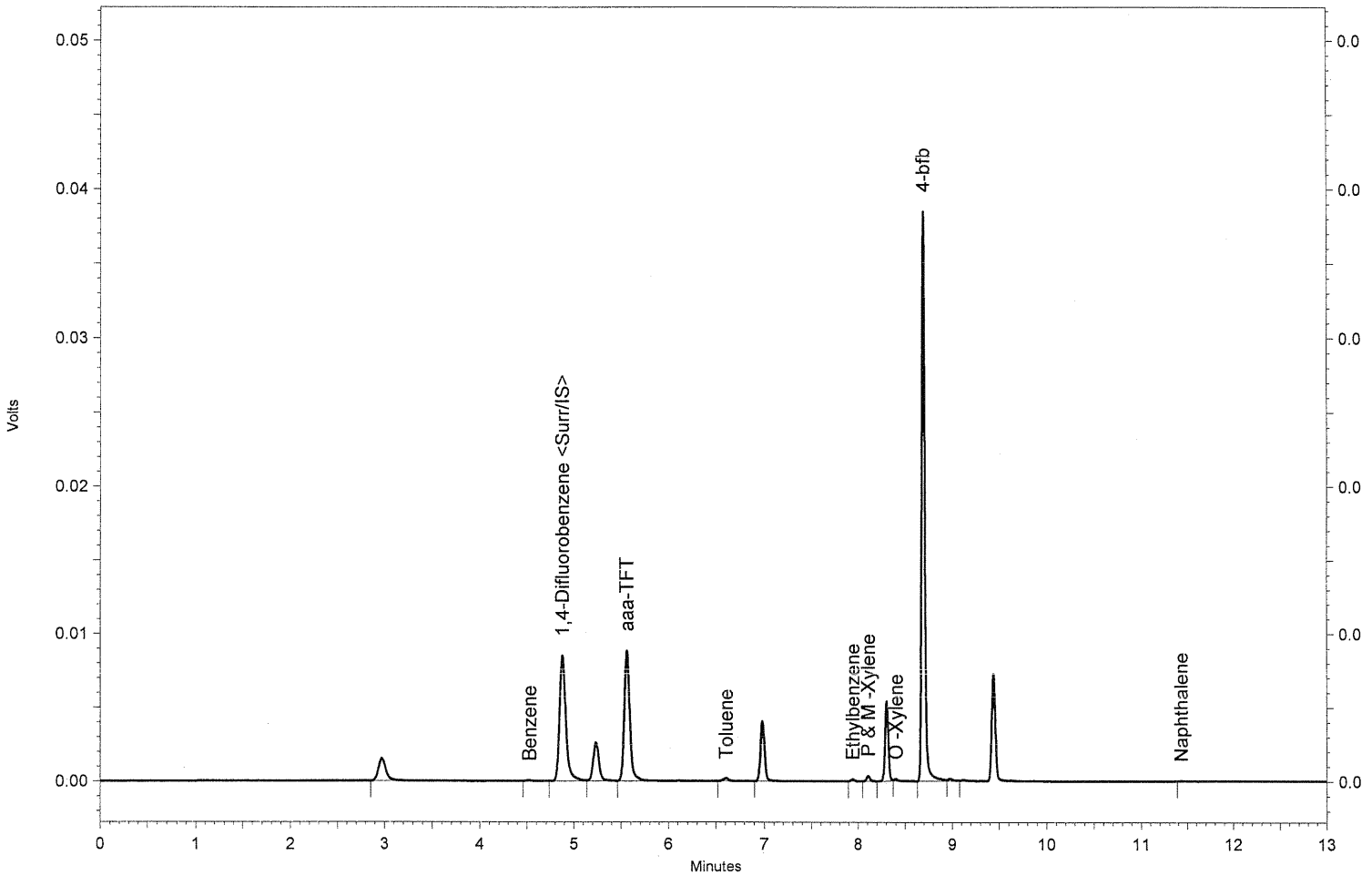
Analyst:

MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_023.dat
PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.527	166	0.077 LC	ppb	BB
1,4-Difluorobenzene <Surr/IS>	4.880	40740	46.243	ppb	BV
aaa-TFT	5.560	35599	0.000	ppb	VB
Toluene	6.610	747	0.373 LC	ppb	BB
Ethylbenzene	7.943	330	0.207 LC	ppb	BB
P & M -Xylene	8.110	934	0.510 LC	ppb	BV
O -Xylene	8.403	492	0.287 LC	ppb	VB
4-bfb	8.693	92190	51.810	ppb	BV
Naphthalene	11.433	58	0.251 LC	ppb	BB

SGS Environmental Services Inc.

Sample Name: NAS
MCM

Date/Time: 6/22/2006 7:34:47 PM

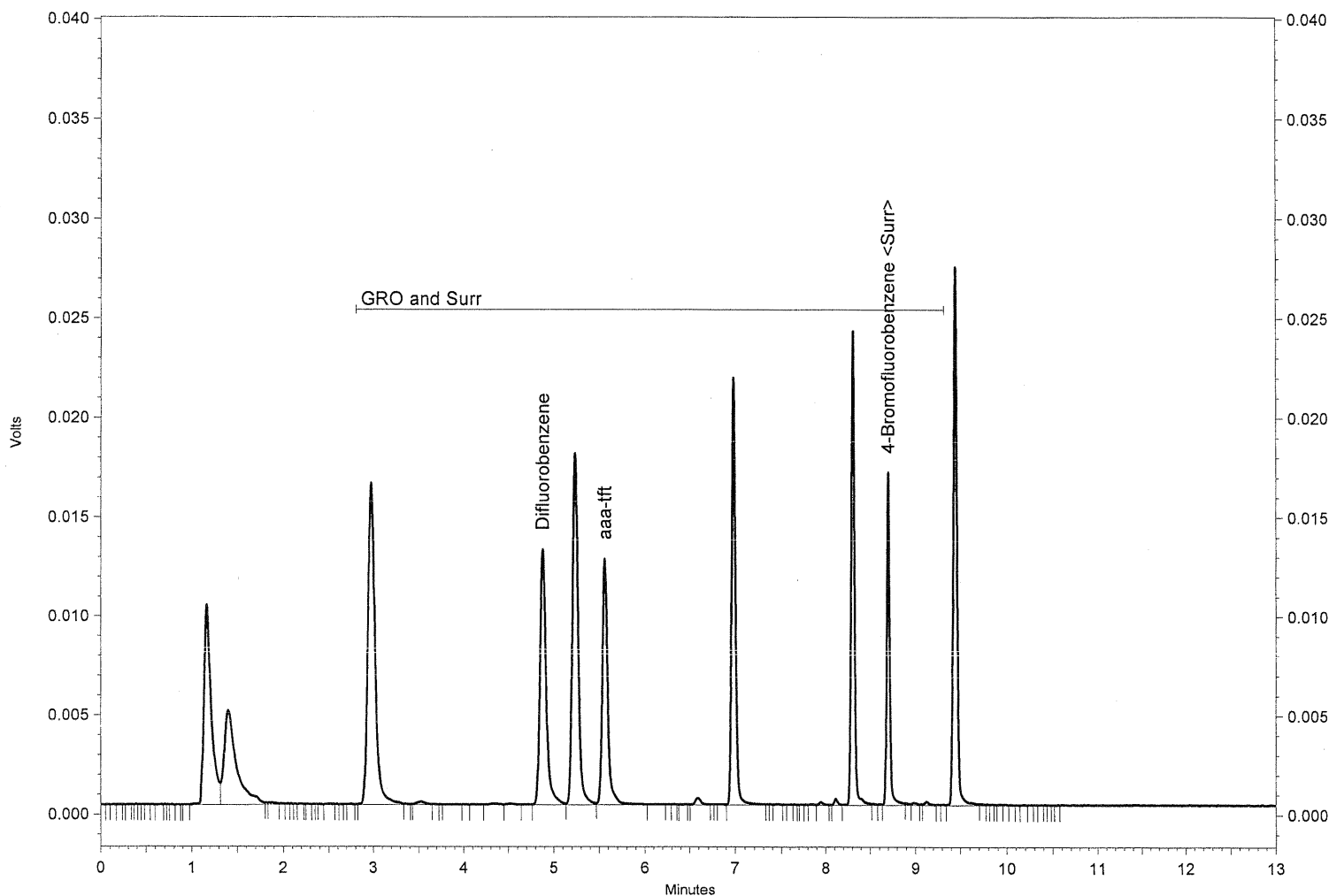
Analyst:

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_023.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.880	62495	47.470	ppb	LL
aaa-tft	5.563	51783	51.103	ppb	LL
4-Bromofluorobenzene <Surr>	8.697	40596	45.746	ppb	LL
GRO		303881	319.910	ppb	
GRO and Surr		458755	482.953	ppb	

SGS Environmental Services Inc.

Sample Name: GRO 90

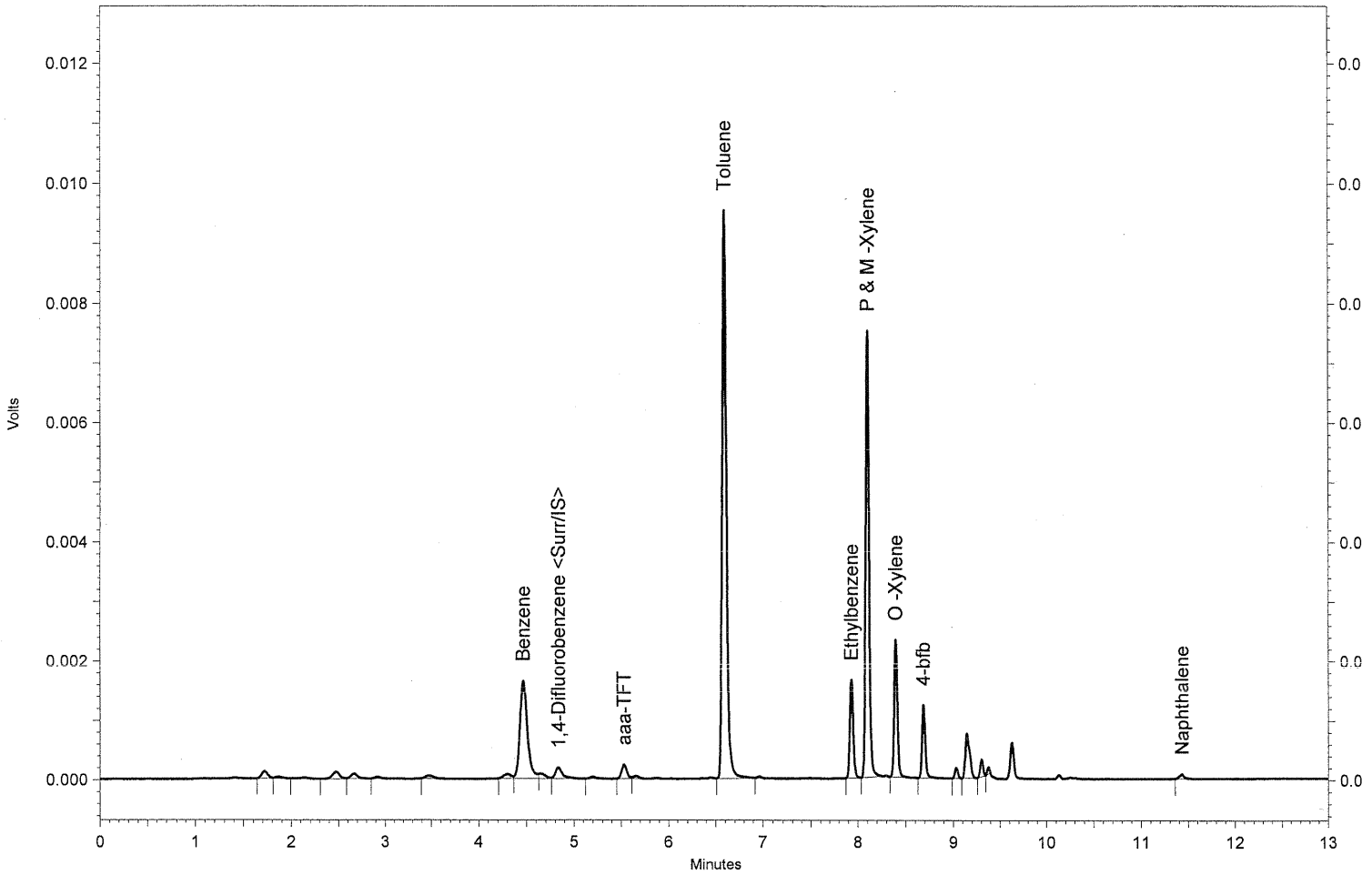
Date/Time: 6/23/2006 1:01:27 AM

Analyst: MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_036.dat
PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.467	8929	0.000 CAL	ppb	VV
1,4-Difluorobenzene <Surr/IS>	4.837	1012	0.000 CAL	ppb	VB
aaa-TFT	5.530	916	0.000 CAL	ppb	BV
Toluene	6.593	28537	0.000 CAL	ppb	BV
Ethylbenzene	7.933	4066	0.000 CAL	ppb	BB
P & M -Xylene	8.100	18761	0.000 CAL	ppb	BB
O -Xylene	8.397	5533	0.000 CAL	ppb	SB
4-bfb	8.687	2920	0.000 CAL	ppb	BB
Naphthalene	11.430	297	0.000 CAL	ppb	BB
?		0	0.000 CAL		
?		0	0.000 CAL		
?		0	0.000 CAL		

SGS Environmental Services Inc.

Sample Name: GRO 90

Date/Time: 6/23/2006 1:01:27 AM

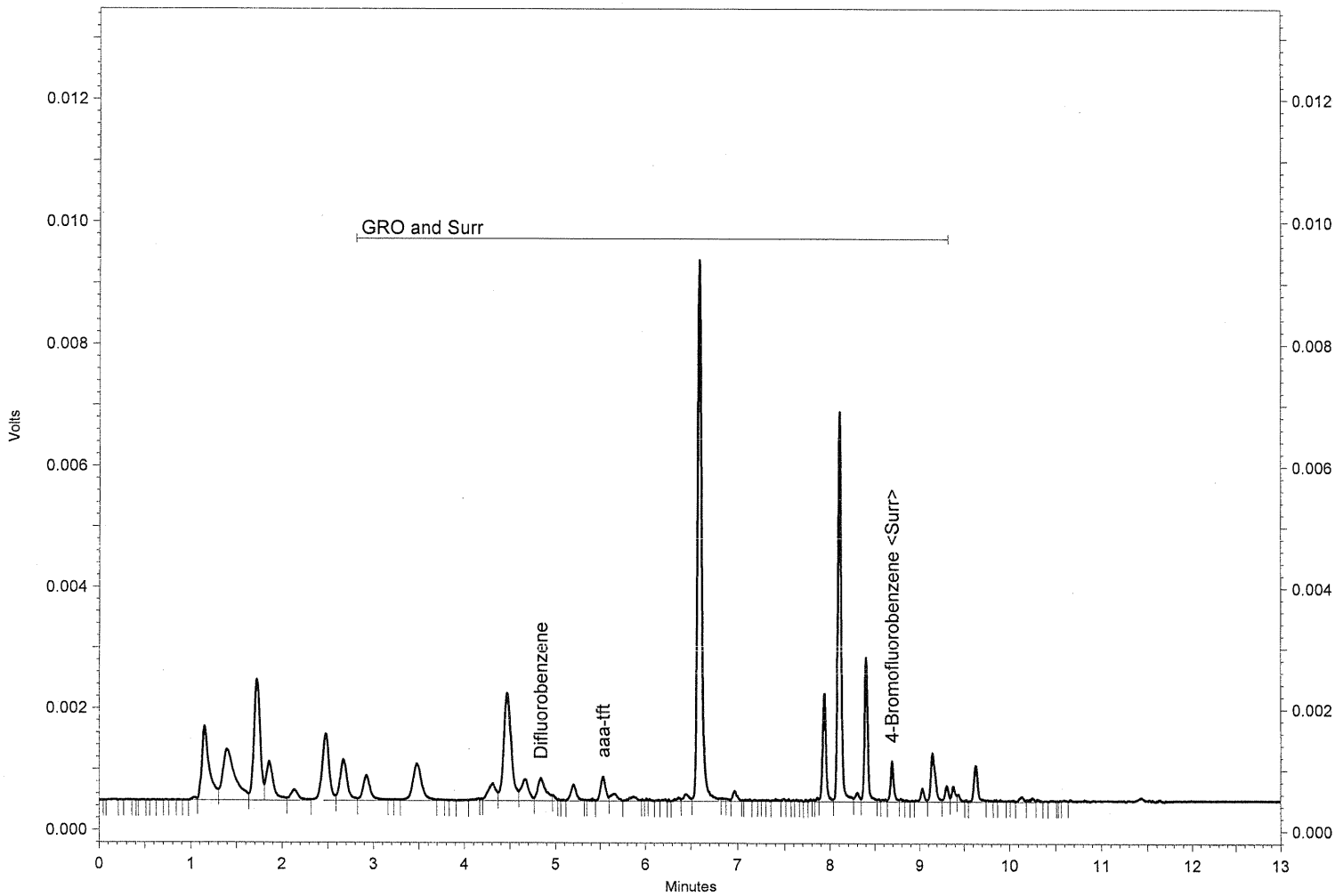
Analyst: MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_036.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.837	2366	0.000 CAL	ppb	LL
aaa-tft	5.533	1605	0.000 CAL	ppb	LL
4-Bromofluorobenzene <Surr>	8.690	1731	0.000 CAL	ppb	LL
GRO		93949	90.000 CAL	ppb	
GRO and Surr		93949	90.000 CAL	ppb	

SGS Environmental Services Inc.

Sample Name: GRO 200

Date/Time: 6/23/2006 1:25:44 AM

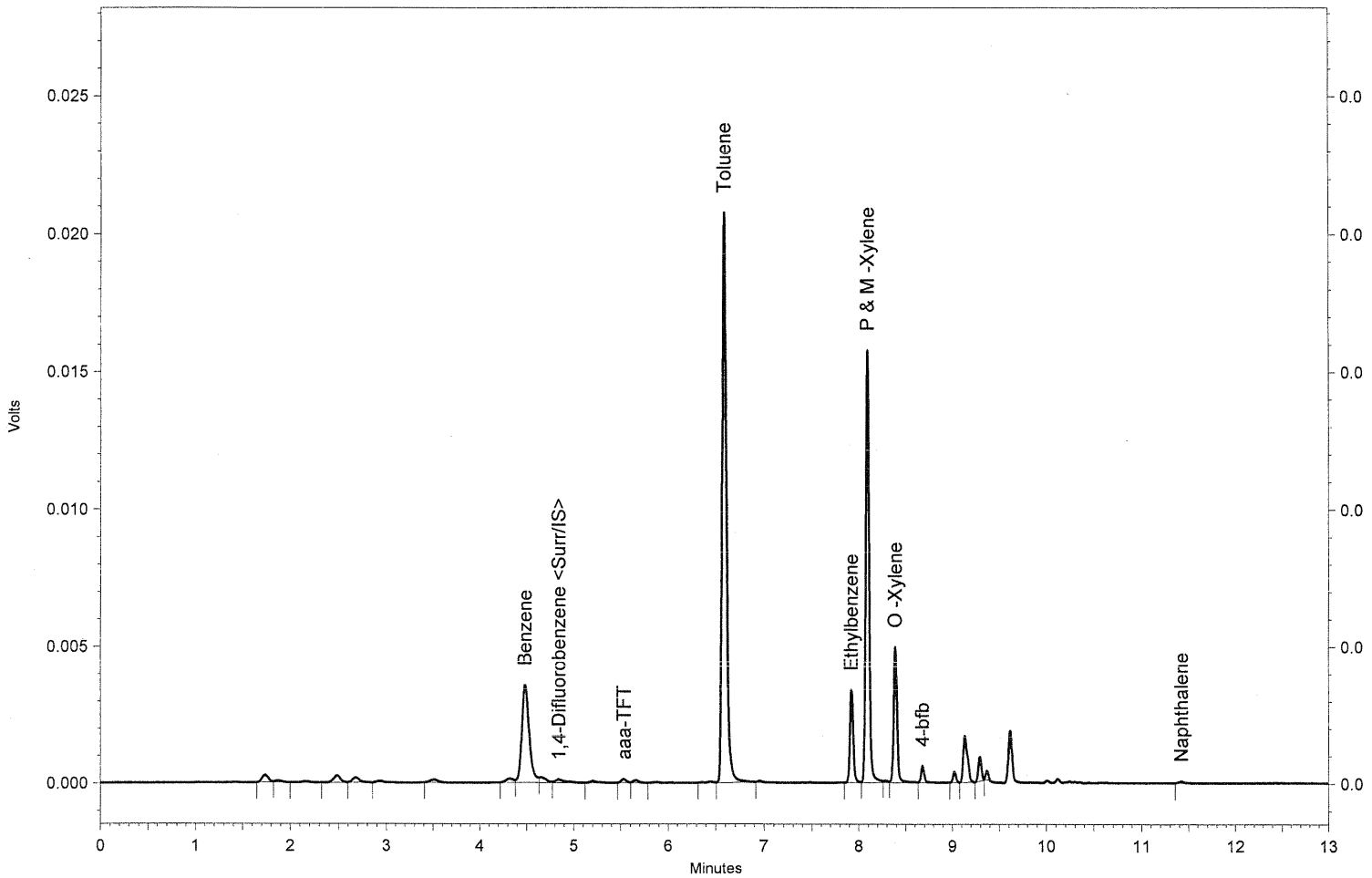
Analyst: MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_037.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.483	19767	0.000 CAL	ppb	VS
1,4-Difluorobenzene <Surr/IS>	4.843	837	0.000 CAL	ppb	VB
aaa-TFT	5.537	521	0.000 CAL	ppb	BV
Toluene	6.590	62198	0.000 CAL	ppb	VV
Ethylbenzene	7.923	8447	0.000 CAL	ppb	BV
P & M -Xylene	8.093	40089	0.000 CAL	ppb	VS
O -Xylene	8.387	12349	0.000 CAL	ppb	VV
4-bfb	8.680	1552	0.000 CAL	ppb	VB
Naphthalene	11.420	236	0.000 CAL	ppb	BB
?		0	0.000 CAL		
?		0	0.000 CAL		
?		0	0.000 CAL		

SGS Environmental Services Inc.

Sample Name: GRO 200

Date/Time: 6/23/2006 1:25:44 AM

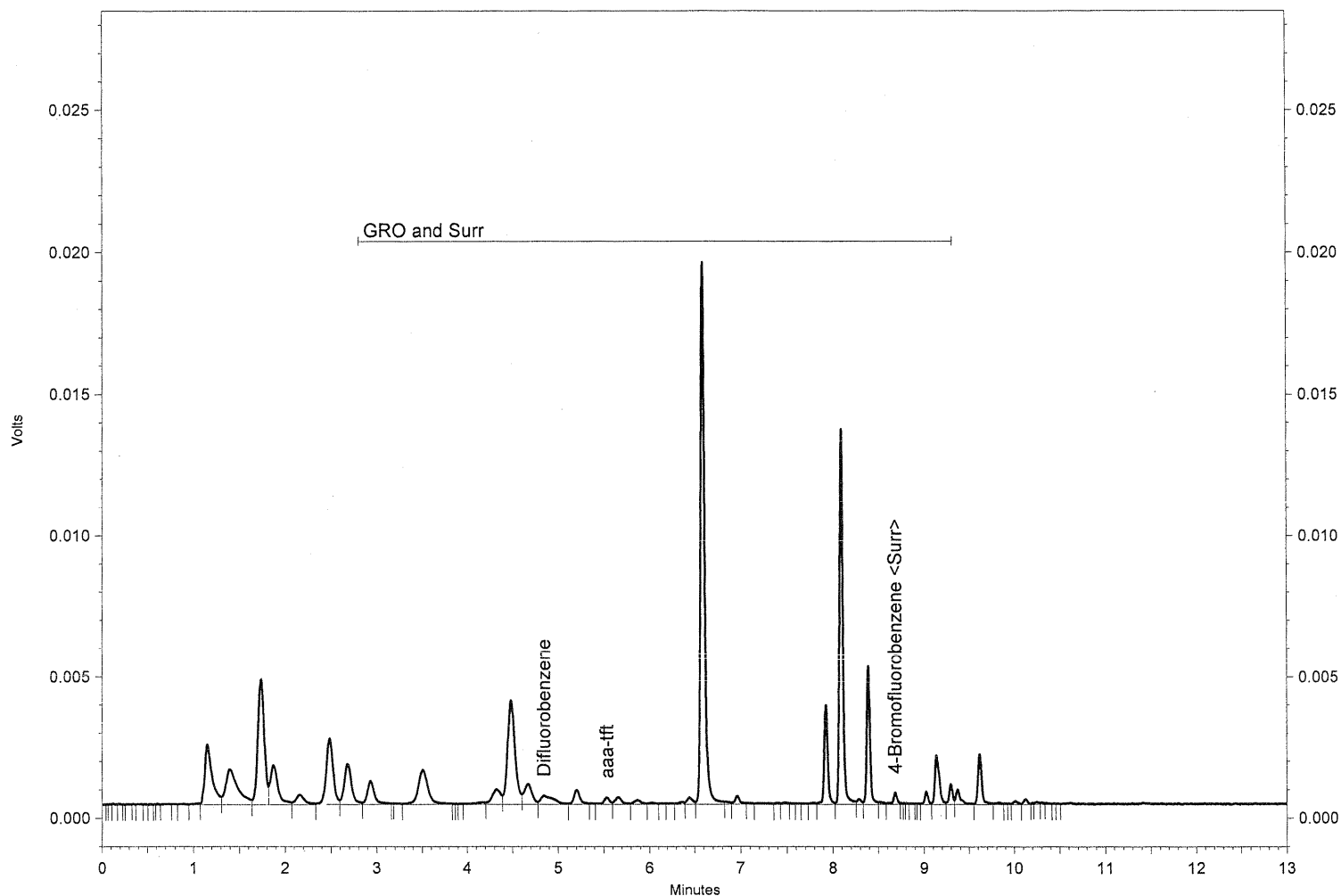
Analyst: MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_037.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.847	3104	0.000 CAL	ppb	LL
aaa-tft	5.537	1102	0.000 CAL	ppb	LL
4-Bromofluorobenzene <Surr>	8.683	1292	0.000 CAL	ppb	LL
GRO		185112	200.000 CAL	ppb	
GRO and Surr		185112	200.000 CAL	ppb	

SGS Environmental Services Inc.

Sample Name: GRO 1000

Date/Time: 6/23/2006 1:50:07 AM

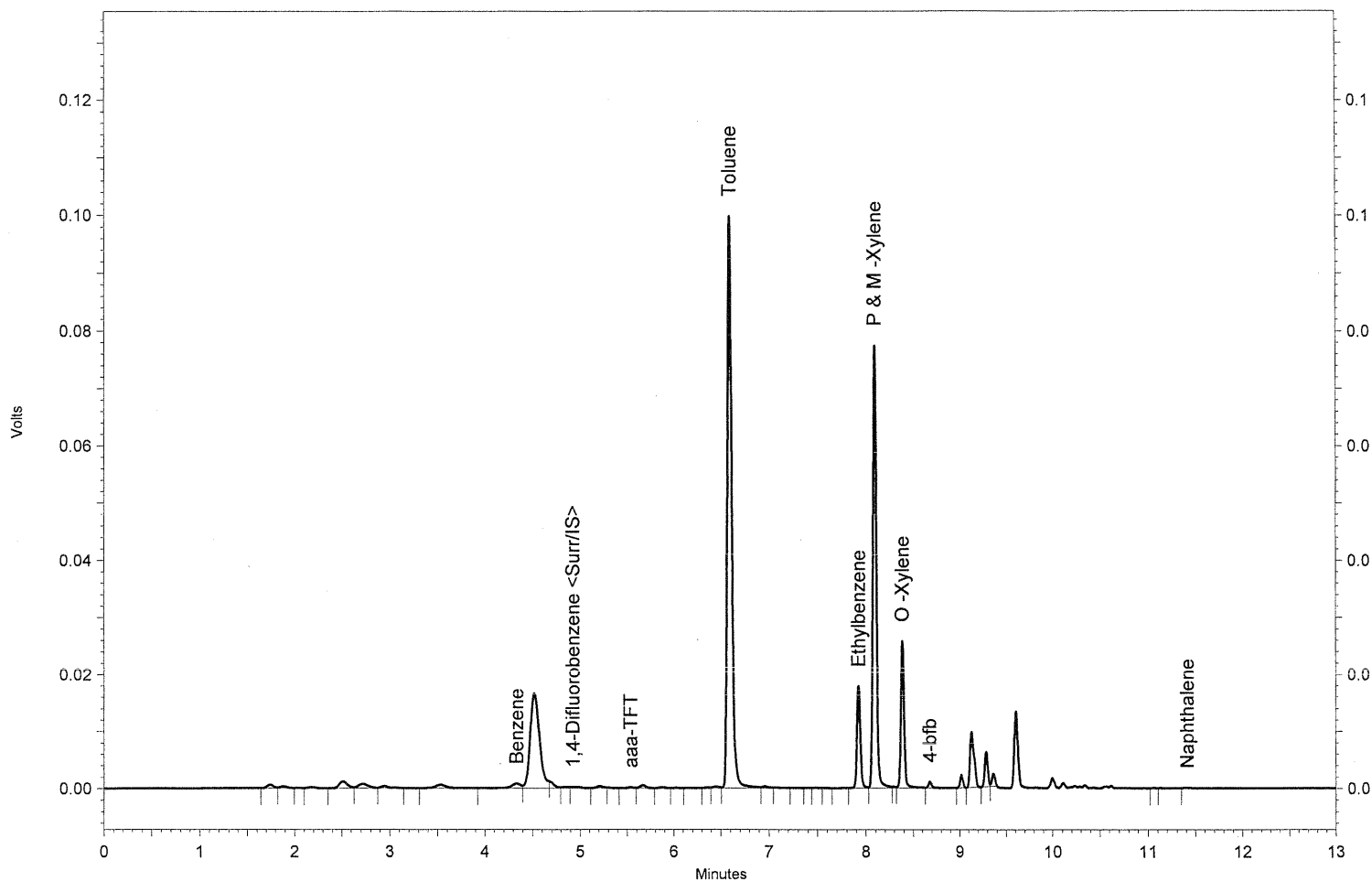
Analyst: MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_038.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.337	5842	0.000 CAL	ppb	BV
1,4-Difluorobenzene <Surr/IS>	4.927	1817	0.000 CAL	ppb	SV
aaa-TFT	5.540	695	0.000 CAL	ppb	VV
Toluene	6.597	313096	0.000 CAL	ppb	VV
Ethylbenzene	7.927	44846	0.000 CAL	ppb	SV
P & M -Xylene	8.093	200784	0.000 CAL	ppb	VS
O -Xylene	8.387	63828	0.000 CAL	ppb	VV
4-bfb	8.680	3026	0.000 CAL	ppb	VB
Naphthalene	11.413	253	0.000 CAL	ppb	BB
?		0	0.000 CAL		
?		0	0.000 CAL		
?		0	0.000 CAL		

SGS Environmental Services Inc.

Sample Name: GRO 1000

Date/Time: 6/23/2006 1:50:07 AM

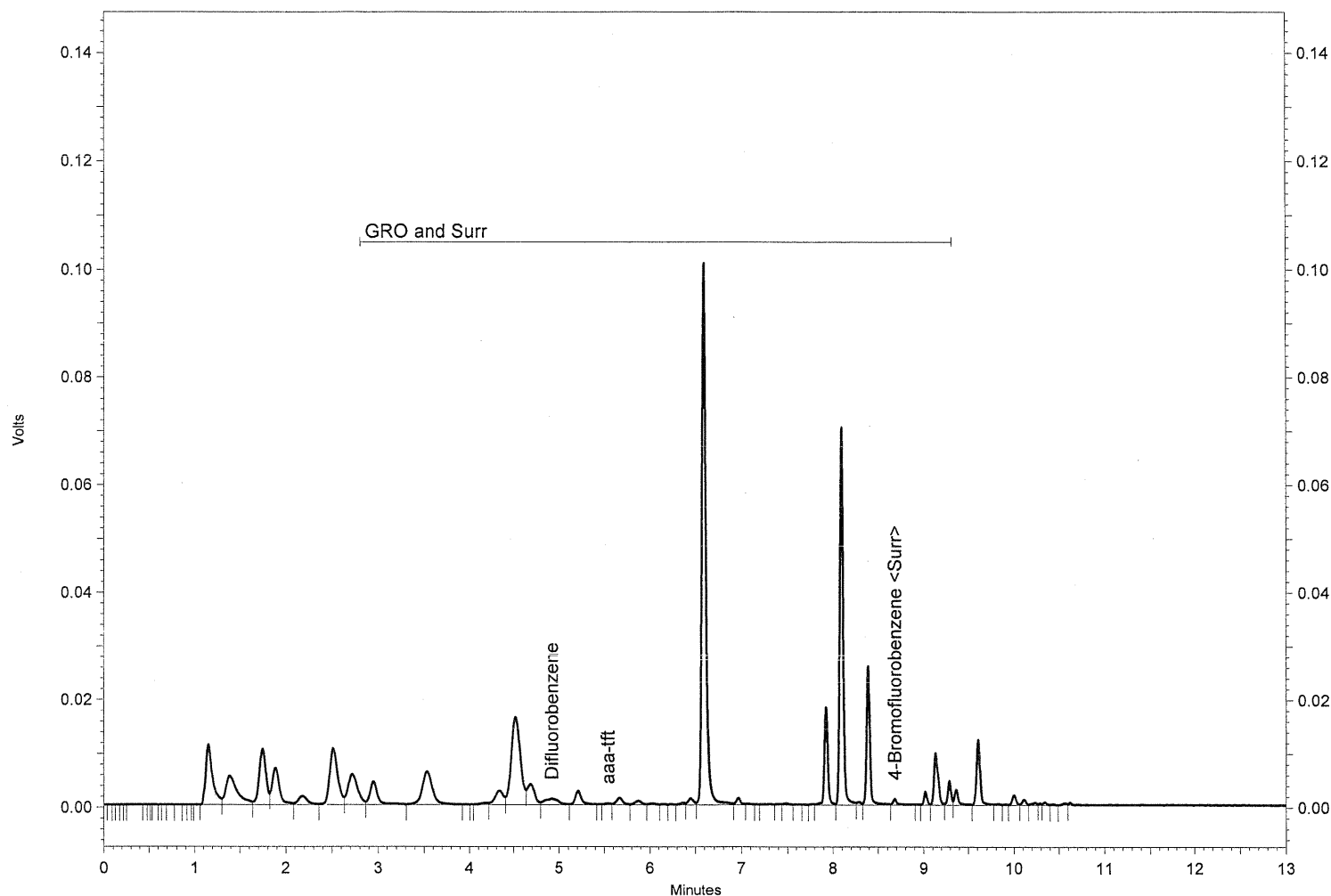
Analyst: MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_038.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.923	12033	0.000 CAL	ppb	LL
aaa-tft	5.543	1174	0.000 CAL	ppb	LL
4-Bromofluorobenzene <Surr>	8.683	4470	0.000 CAL	ppb	LL
GRO		948896	1000.000 CAL	ppb	
GRO and Surr		948896	1000.000 CAL	ppb	

SGS Environmental Services Inc.

Sample Name: GRO 2400

Date/Time: 6/23/2006 2:14:59 AM

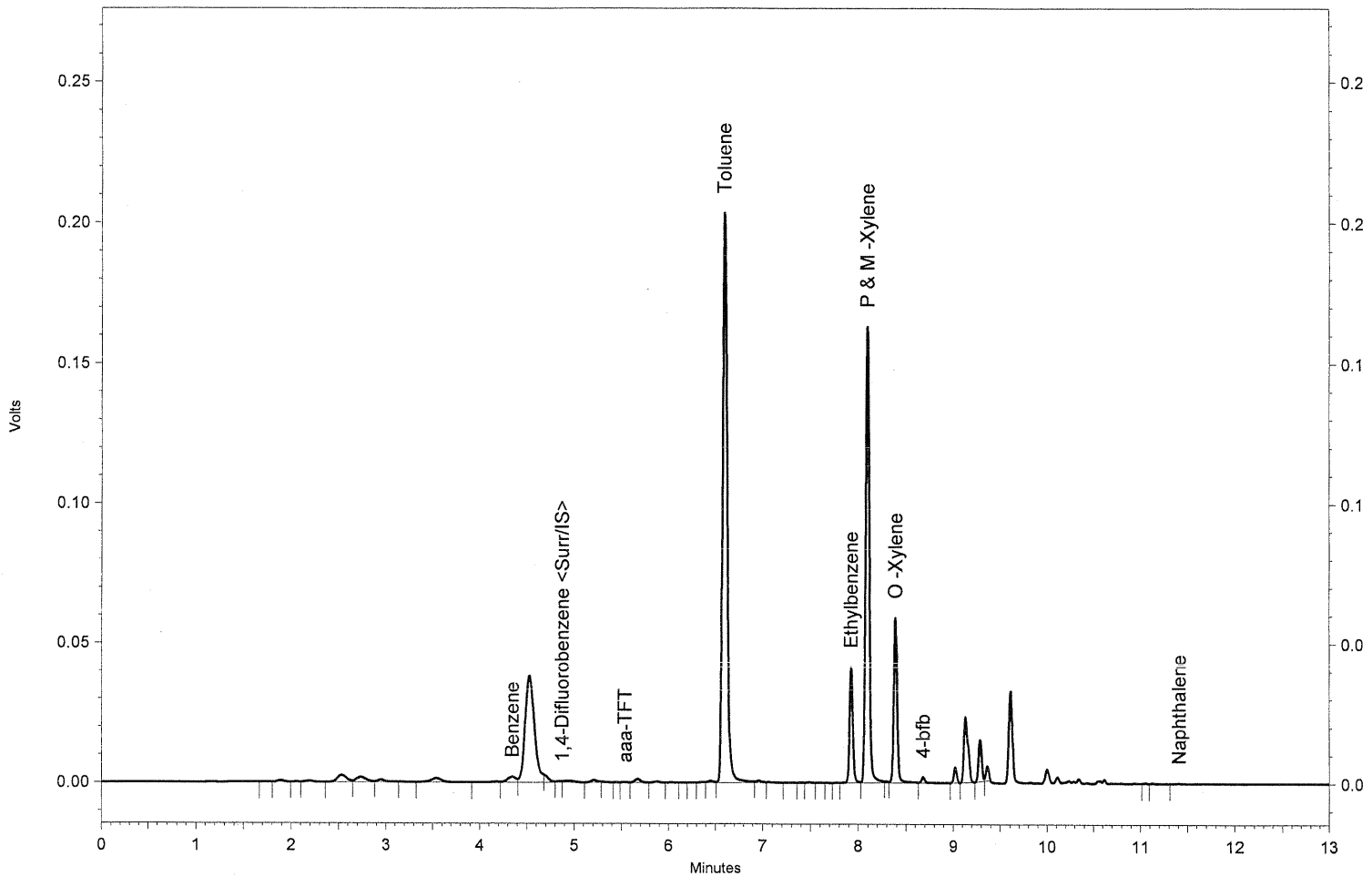
Analyst: MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_039.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.347	12620	0.000 CAL	ppb	VV
1,4-Difluorobenzene <Surr/IS>	4.873	1743	0.000 CAL	ppb	VS
aaa-TFT	5.540	673	0.000 CAL	ppb	VV
Toluene	6.600	665936	0.000 CAL	ppb	VV
Ethylbenzene	7.927	104627	0.000 CAL	ppb	SV
P & M -Xylene	8.097	437955	0.000 CAL	ppb	VS
O -Xylene	8.390	147080	0.000 CAL	ppb	VV
4-bfb	8.683	5727	0.000 CAL	ppb	VB
Naphthalene	11.410	288	0.000 CAL	ppb	BB
?		0	0.000 CAL		
?		0	0.000 CAL		
?		0	0.000 CAL		

SGS Environmental Services Inc.

Sample Name: GRO 2400

Date/Time: 6/23/2006 2:14:59 AM

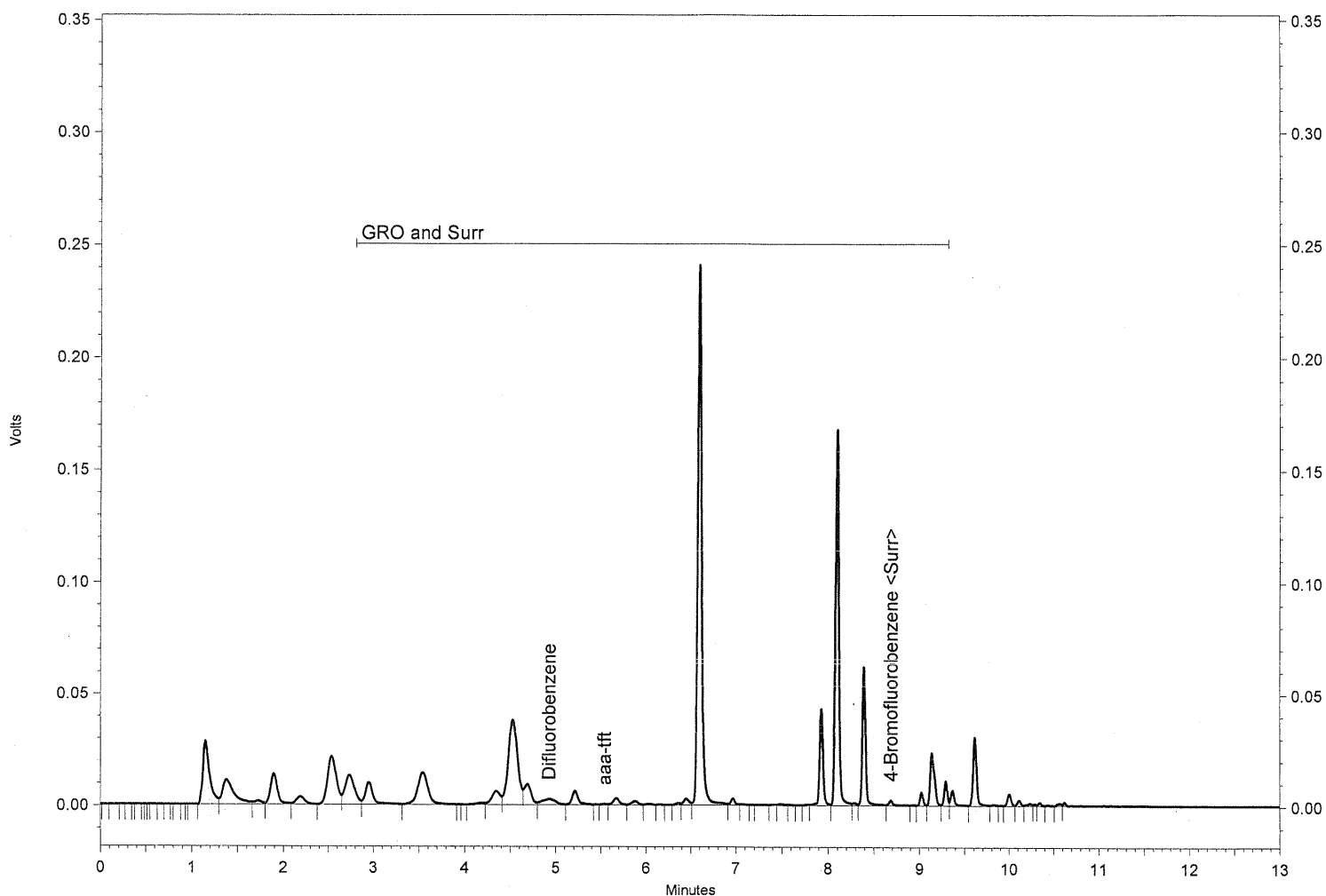
Analyst: MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_039.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.930	27609	0.000 CAL	ppb	LL
aaa-tft	5.543	1610	0.000 CAL	ppb	LL
4-Bromofluorobenzene <Surr>	8.687	9670	0.000 CAL	ppb	LL
GRO		2252394	2400.000 CAL	ppb	
GRO and Surr		2252394	2400.000 CAL	ppb	

SGS Environmental Services Inc.

Sample Name: GRO 4000

Date/Time: 6/23/2006 2:39:33 AM

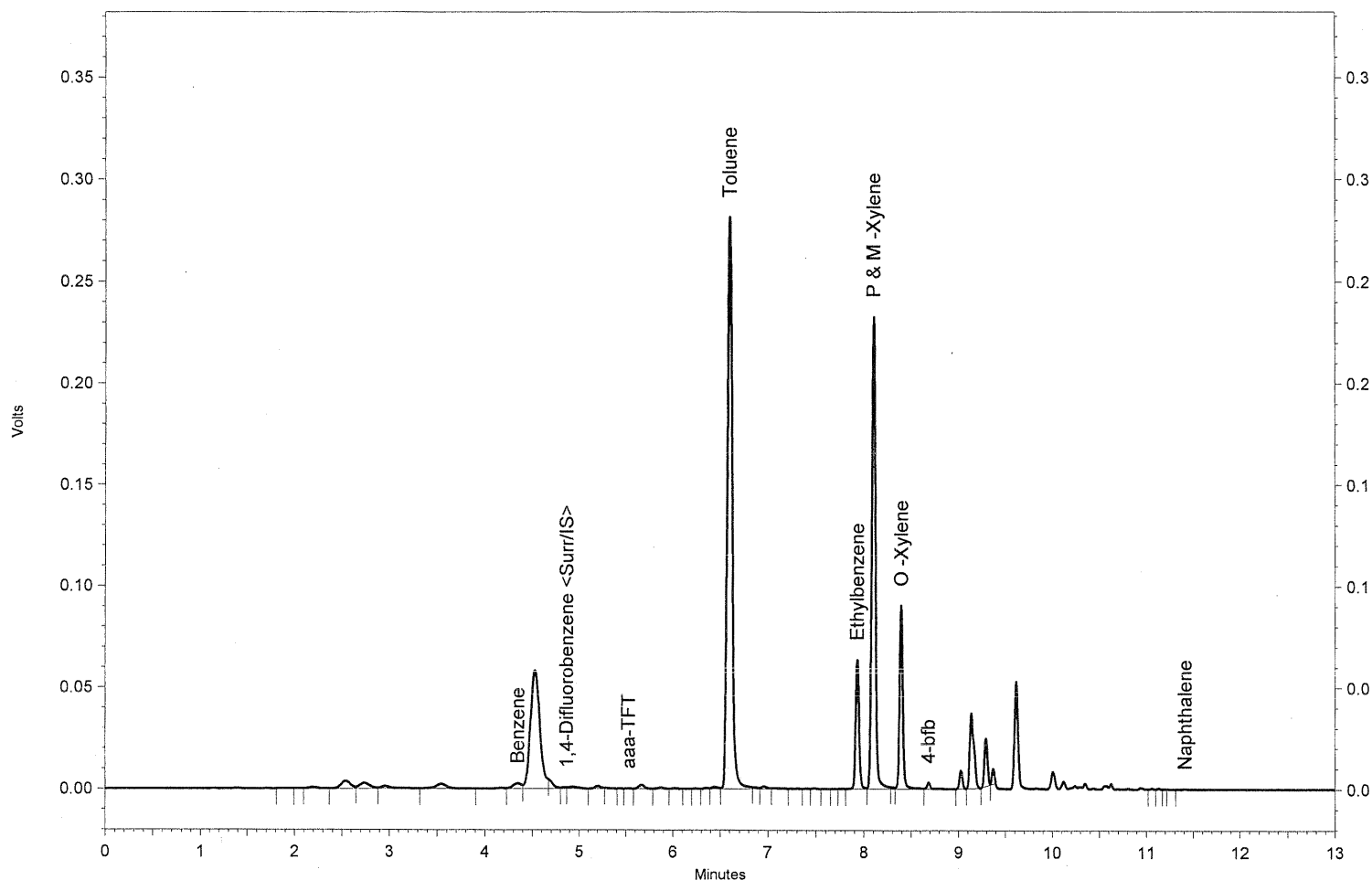
Analyst: MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_040.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.347	16130	0.000 CAL	ppb	VV
1,4-Difluorobenzene <Surr/IS>	4.867	2293	0.000 CAL	ppb	VS
aaa-TFT	5.530	763	0.000 CAL	ppb	VV
Toluene	6.603	962146	0.000 CAL	ppb	VS
Ethylbenzene	7.933	163133	0.000 CAL	ppb	SV
P & M -Xylene	8.103	645495	0.000 CAL	ppb	VS
O -Xylene	8.397	228498	0.000 CAL	ppb	VV
4-bfb	8.687	8523	0.000 CAL	ppb	VB
Naphthalene	11.413	363	0.000 CAL	ppb	BB
?		0	0.000 CAL		
?		0	0.000 CAL		
?		0	0.000 CAL		

SGS Environmental Services Inc.

Sample Name: GRO 4000

Date/Time: 6/23/2006 2:39:33 AM

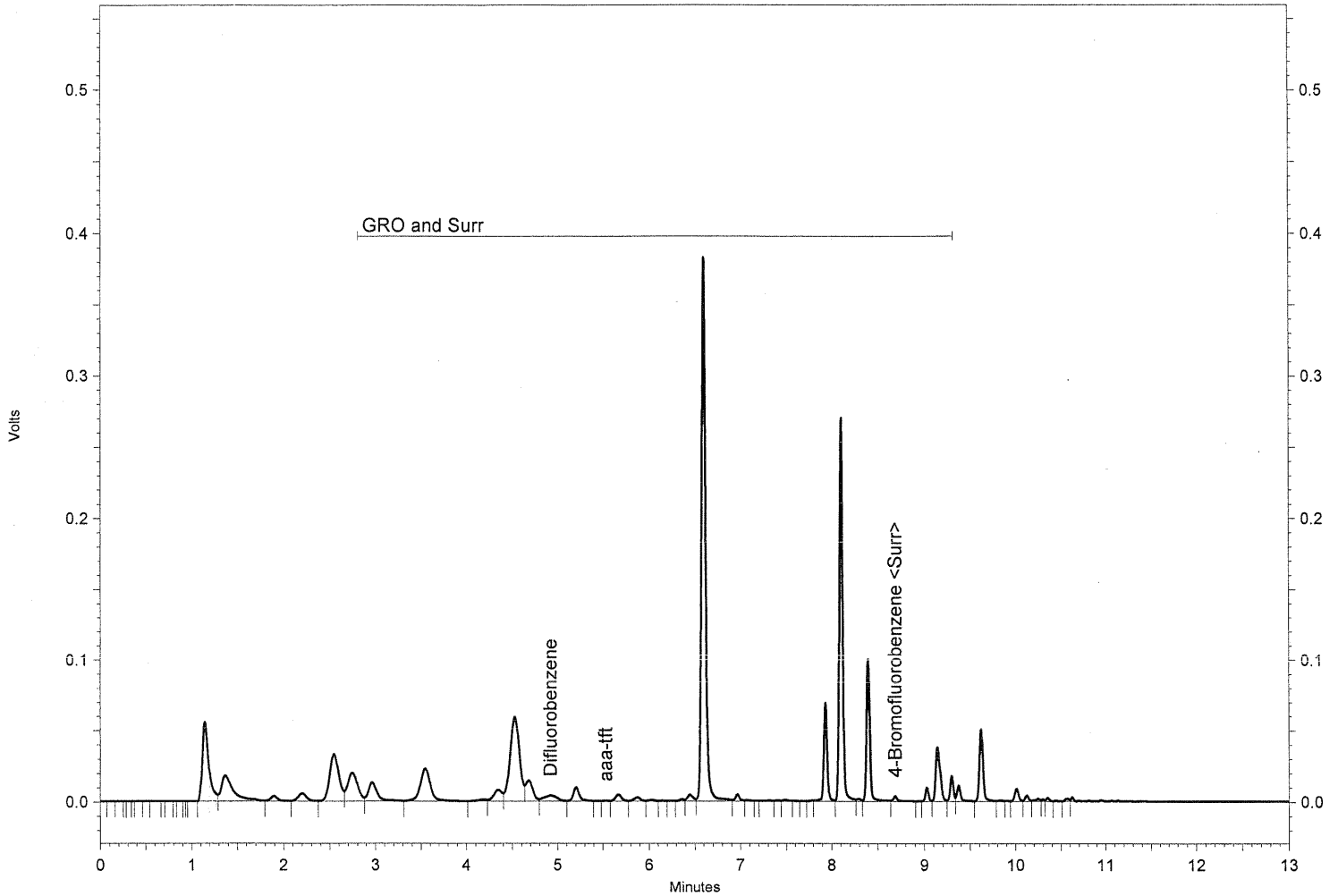
Analyst: MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_040.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.923	42651	0.000 CAL	ppb	LL
aaa-tft	5.530	1975	0.000 CAL	ppb	LL
4-Bromofluorobenzene <Surr>	8.690	14916	0.000 CAL	ppb	LL
GRO		3570594	4000.000 CAL	ppb	
GRO and Surr		3570594	4000.000 CAL	ppb	

SGS Environmental Services Inc.

Sample Name: IB
MCM

Date/Time: 6/23/2006 9:27:38 AM

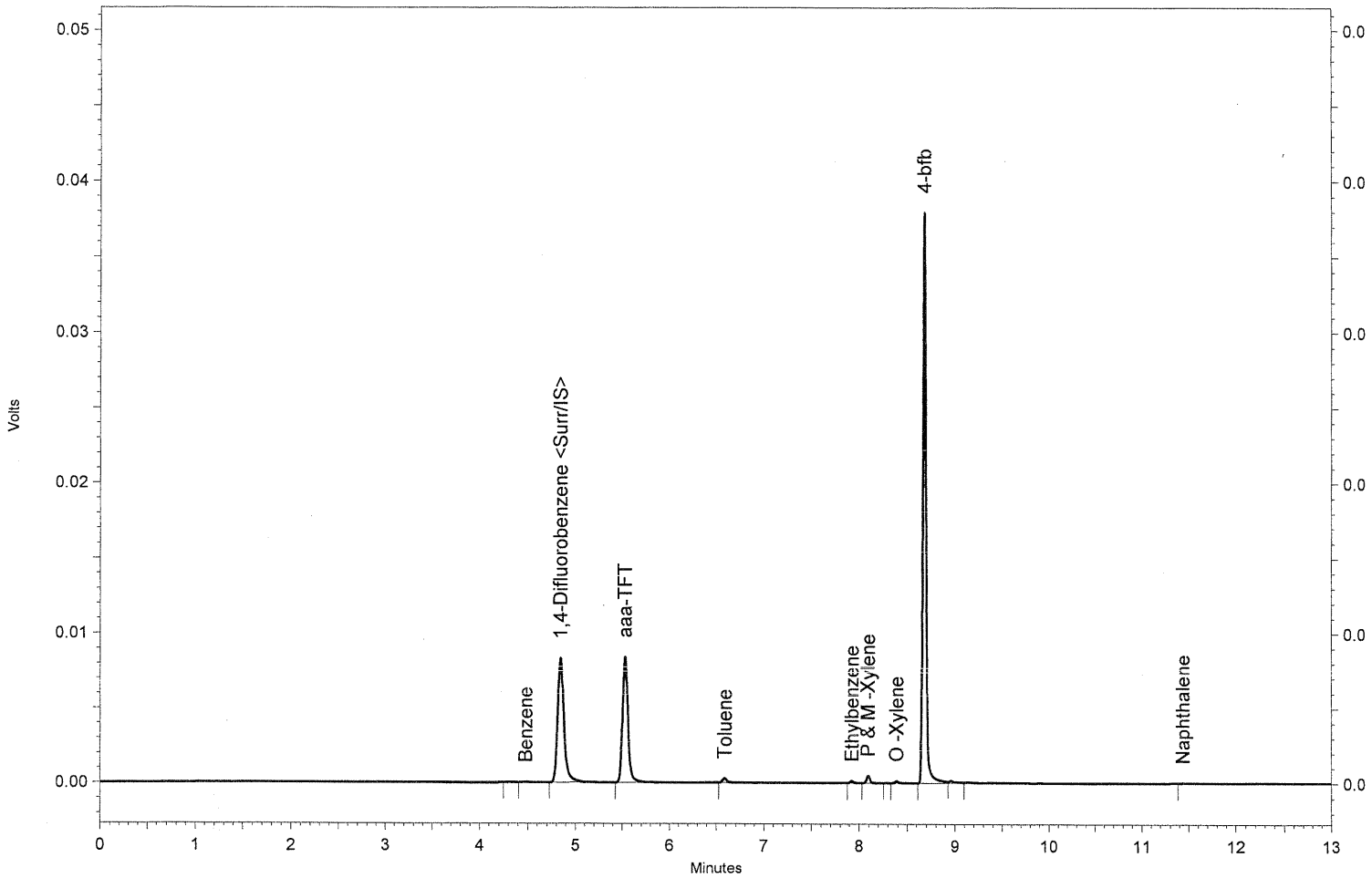
Analyst:

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_048.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.480	162	0.080 LC	ppb	VB
1,4-Difluorobenzene <Surr/IS>	4.843	39206	47.402	ppb	BB
aaa-TFT	5.530	33421	0.000	ppb	BB
Toluene	6.590	912	0.485 LC	ppb	BB
Ethylbenzene	7.927	332	0.222 LC	ppb	BB
P & M-Xylene	8.097	1255	0.730 LC	ppb	BV
O-Xylene	8.390	379	0.235 LC	ppb	SB
4-bfb	8.680	91070	54.516	ppb	BV
Naphthalene	11.437	56	0.258 LC	ppb	BB

SGS Environmental Services Inc.

Sample Name: IB
MCM

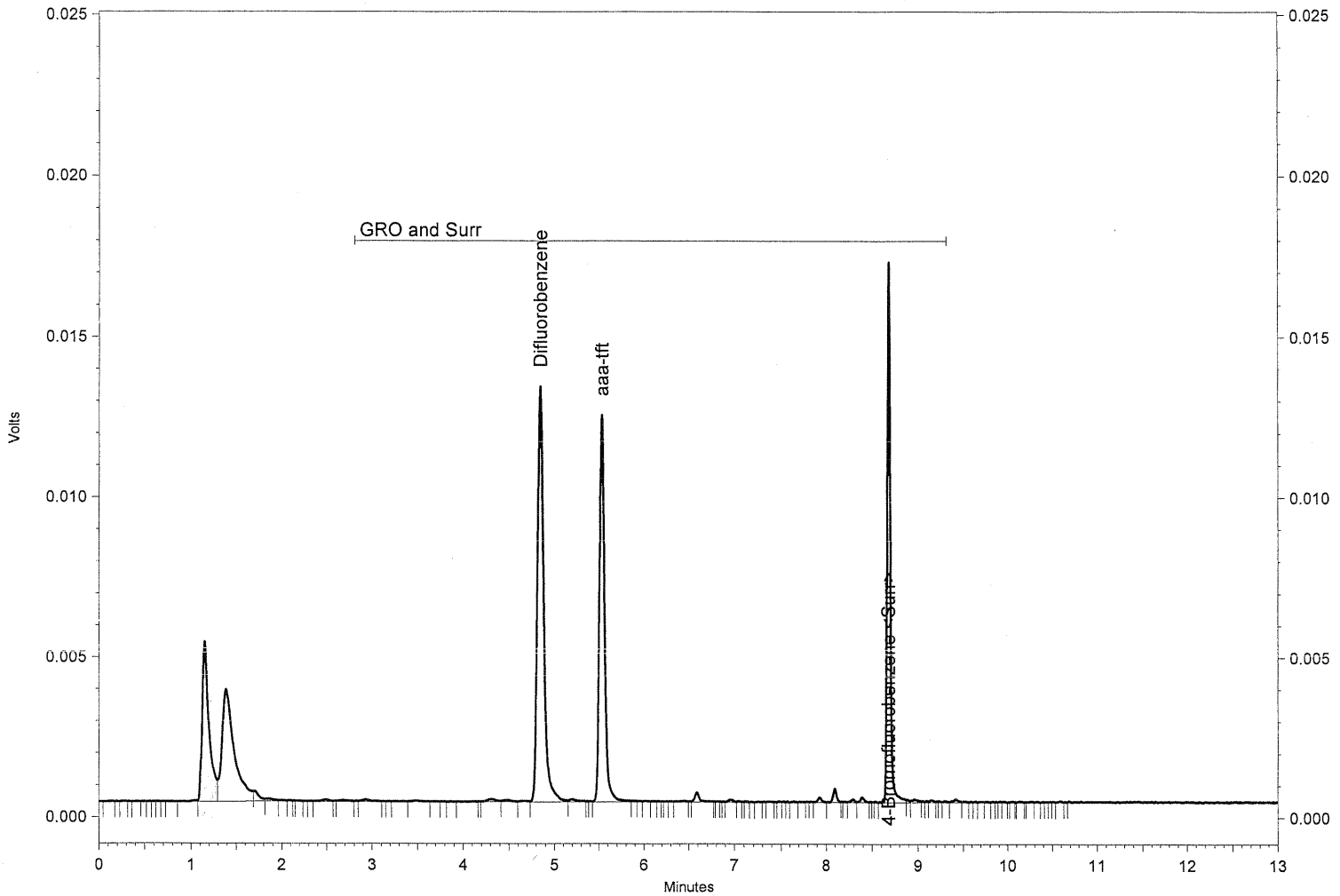
Date/Time: 6/23/2006 9:27:38 AM

Analyst:

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_048.dat
FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.847	62217	47.259	ppb	LL
aaa-tft	5.533	48955	48.313	ppb	LL
4-Bromofluorobenzene <Surr>	8.680	40792	45.967	ppb	LL
GRO		11008	11.589	LC ppb	
GRO and Surr		162972	171.568	ppb	

SGS Environmental Services Inc.

Sample Name: NAS

Date/Time: 6/23/2006 9:53:26 AM

Analyst:

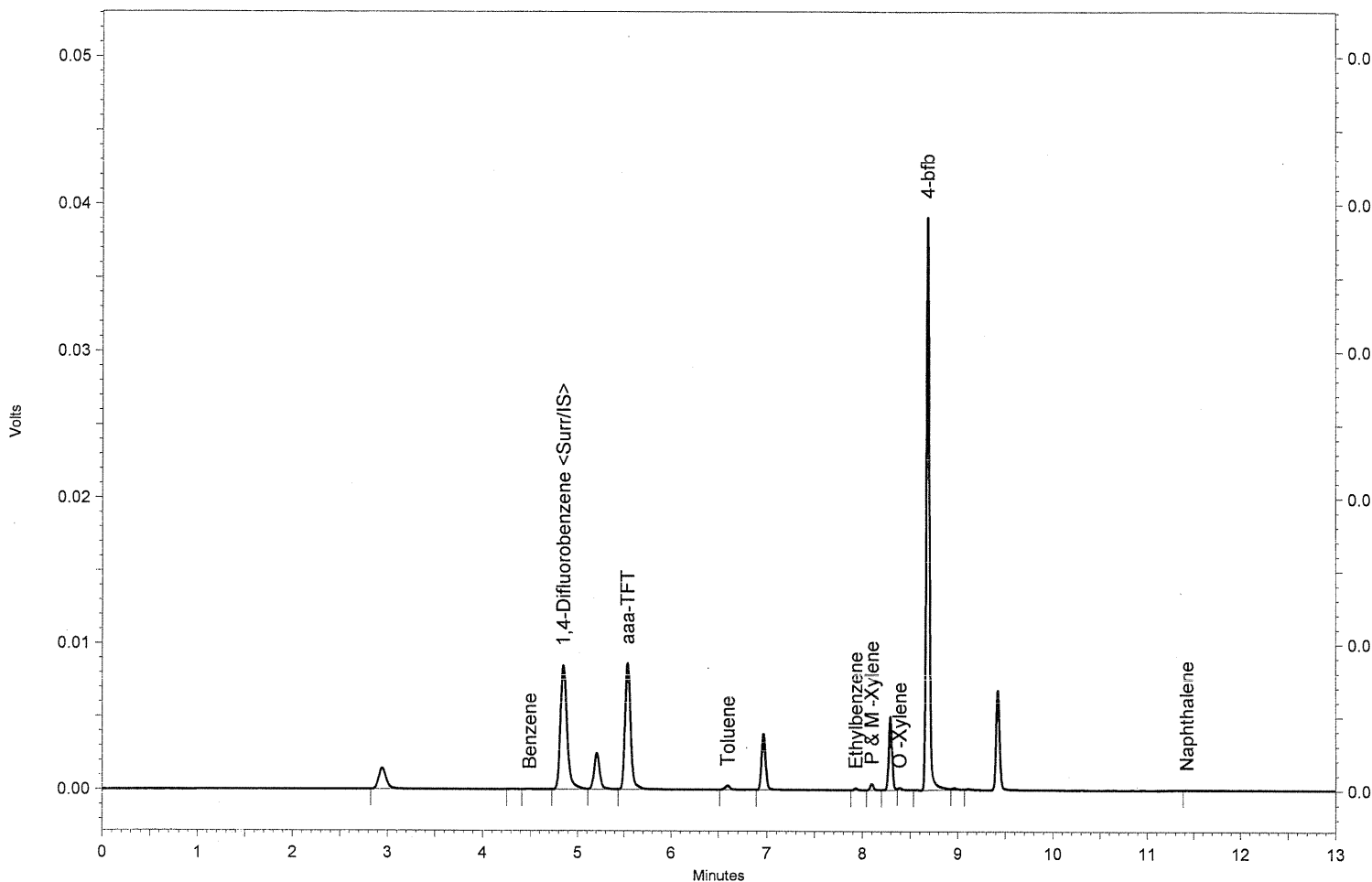
MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_049.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.493	146	0.069 LC	ppb	BB
1,4-Difluorobenzene <Surr/IS>	4.850	41440	48.002	ppb	BV
aaa-TFT	5.537	34884	0.000	ppb	VB
Toluene	6.597	1010	0.515 LC	ppb	BB
Ethylbenzene	7.933	306	0.196 LC	ppb	BB
P & M -Xylene	8.100	1088	0.607 LC	ppb	BV
O -Xylene	8.393	500	0.298 LC	ppb	VV
4-bfb	8.683	92237	52.899	ppb	VV
Naphthalene	11.423	68	0.300 LC	ppb	BB

SGS Environmental Services Inc.

Sample Name: NAS

Date/Time: 6/23/2006 9:53:26 AM

Analyst:

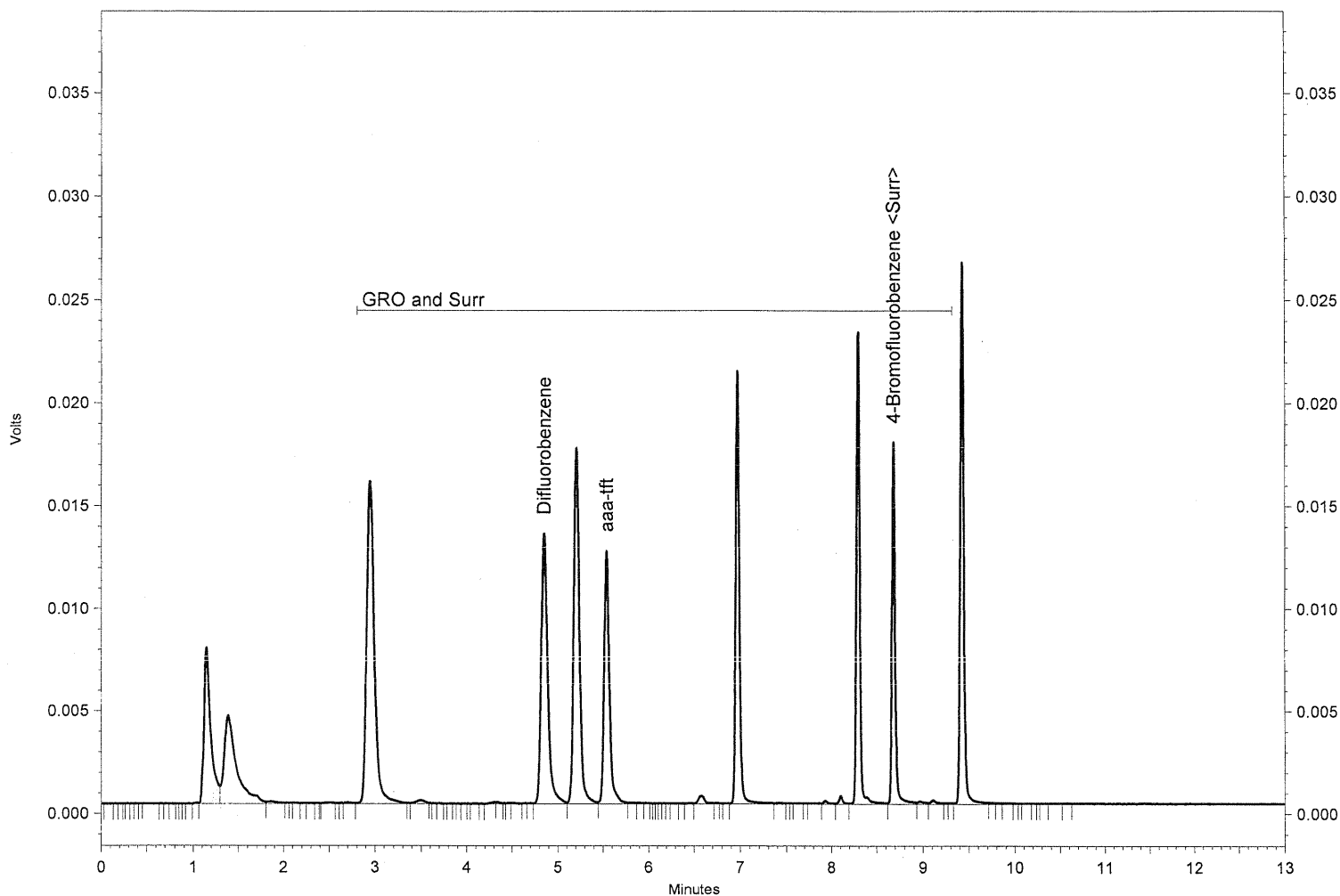
MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_049.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.853	65324	49.619	ppb	LL
aaa-tft	5.540	51243	50.571	ppb	LL
4-Bromofluorobenzene <Surr>	8.683	42432	47.815	ppb	LL
GRO		300932	316.805	ppb	
GRO and Surr		459931	484.191	ppb	

SGS Environmental Services Inc.

Sample Name: ICV GRO

Date/Time: 6/23/2006 1:42:23 PM

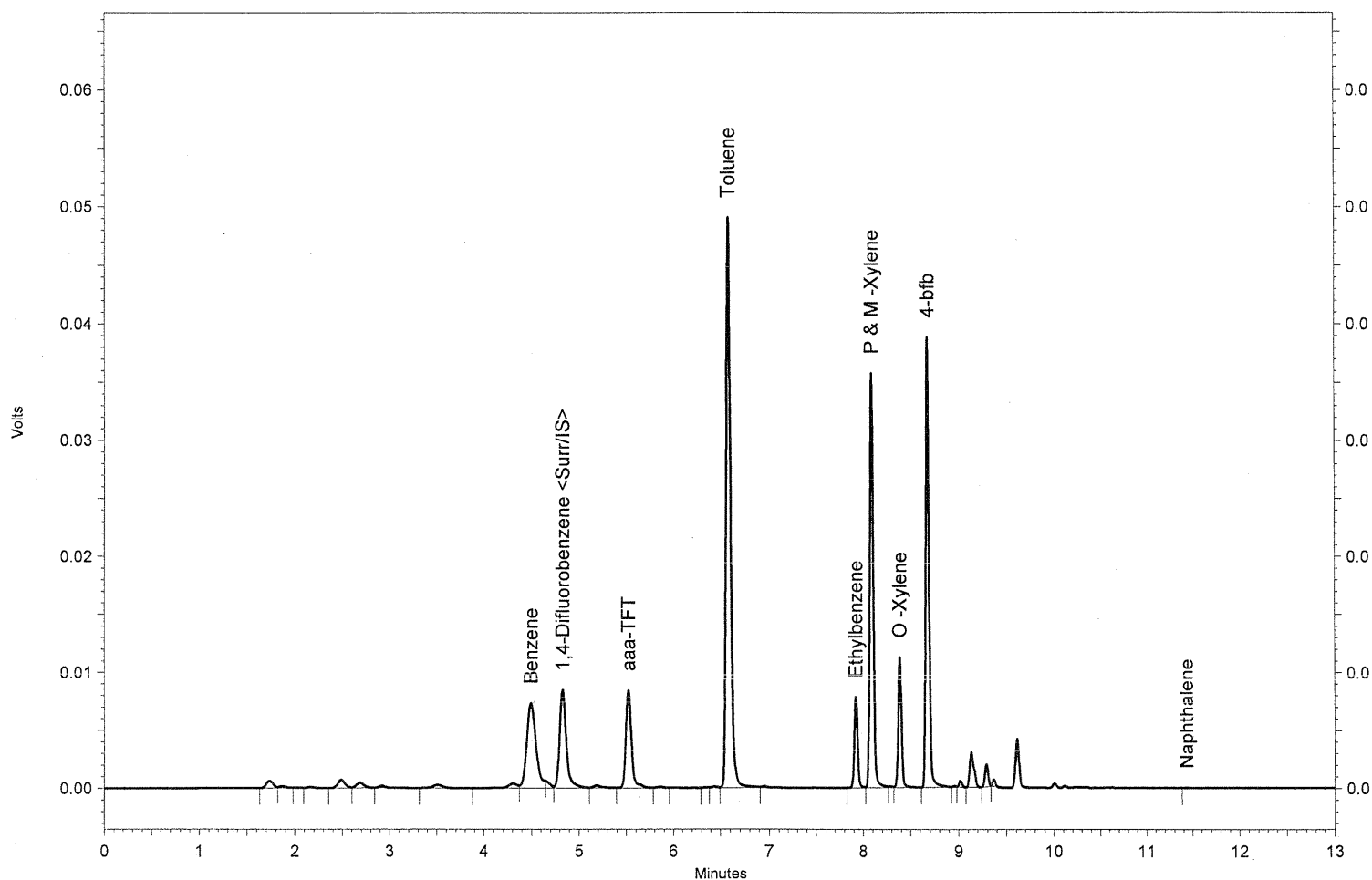
Analyst: MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_058.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.497	49532	24.294	ppb	VS
1,4-Difluorobenzene <Surr/IS>	4.833	41643	49.861	ppb	VV
aaa-TFT	5.523	33748	0.000	ppb	VS
Toluene	6.583	150213	79.106	ppb	VV
Ethylbenzene	7.923	19569	12.954	ppb	BV
P & M -Xylene	8.090	91000	52.437	ppb	VS
O -Xylene	8.387	27386	16.847	ppb	VB
4-bfb	8.677	91317	54.134	ppb	BV
Naphthalene	11.433	58	0.265 LC	ppb	BB

?	0	0.000
?	0	0.000
?	0	0.000

SGS Environmental Services Inc.

Sample Name: ICV GRO

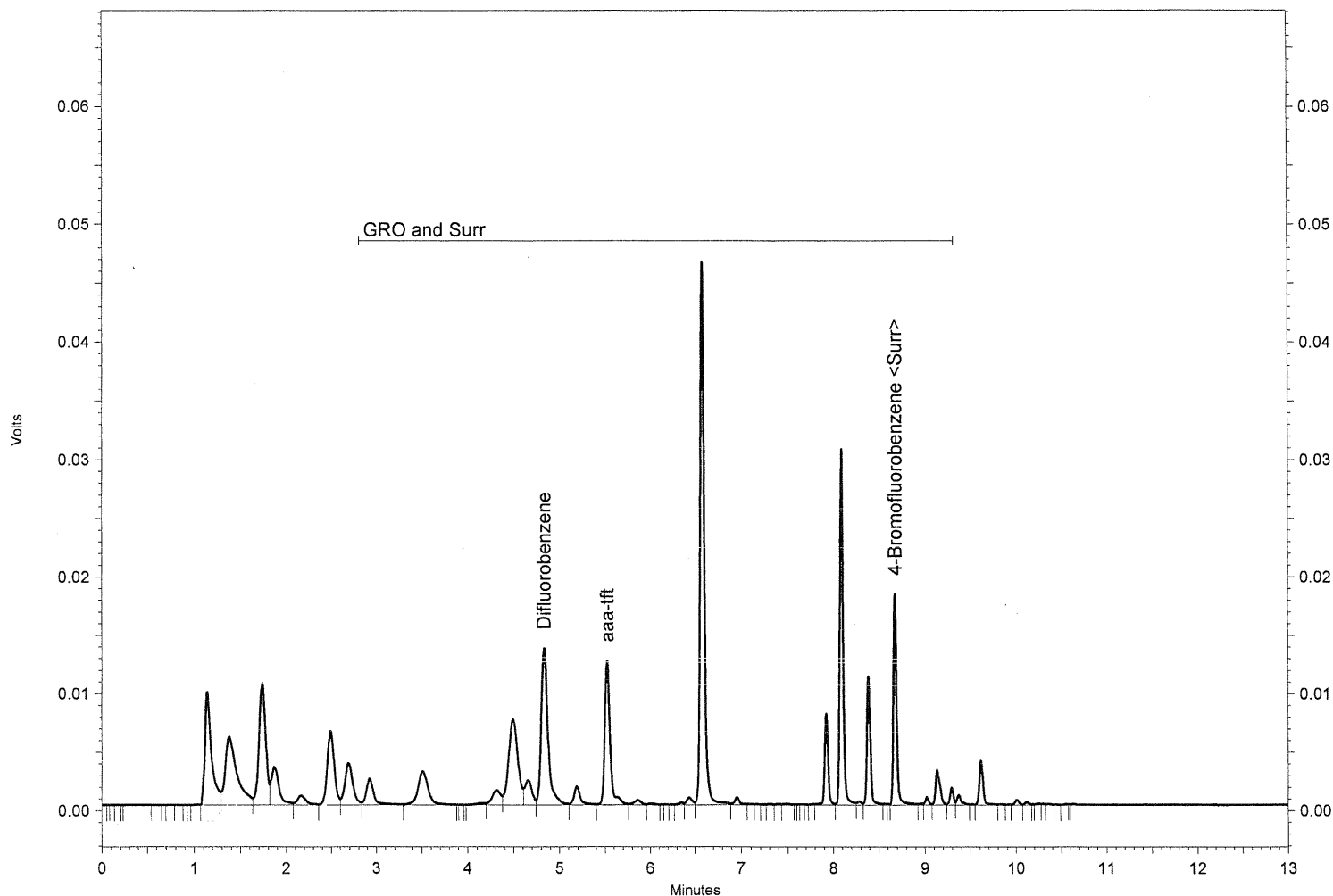
Date/Time: 6/23/2006 1:42:23 PM

Analyst: MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_058.dat
FID



FID Detector

FID Results

Name	R.T.	Area	Target	Amount	Units	%	Codes
Difluorobenzene	4.833	68672		52.162	ppb		LL
aaa-tft	5.523	52333		51.646	ppb		LL
4-Bromofluorobenzene <Surr>	8.680	43325		48.821	ppb		LL
GRO		414474	450	436.336	ppb	96.964	
GRO and Surr		578804		609.334	ppb		

SGS Environmental Services Inc.

Sample Name: BTEX 40

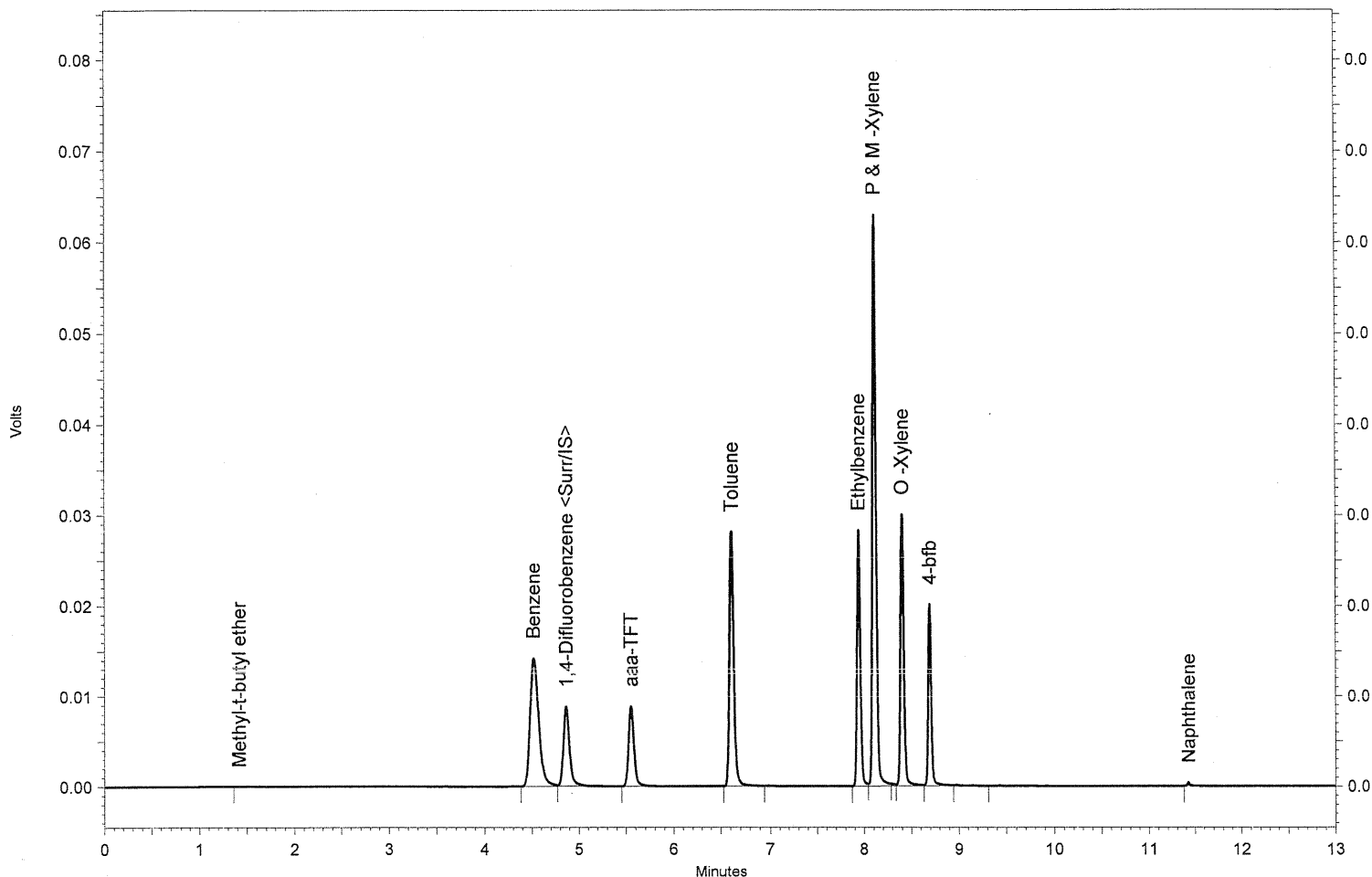
Date/Time: 6/22/2006 10:05:44 PM

Analyst: MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_029.dat
PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Methyl-t-butyl ether	1.420	136	40.000 CAL	ppb	BB
Benzene	4.520	91862	40.000 CAL	ppb	BV
1,4-Difluorobenzene <Surr/IS>	4.867	41303	50.000 CAL	ppb	VB
aaa-TFT	5.553	35340	0.000 CAL	ppb	BB
Toluene	6.613	85441	40.000 CAL	ppb	BV
Ethylbenzene	7.943	70730	40.000 CAL	ppb	BV
P & M -Xylene	8.113	163389	80.000 CAL	ppb	VS
O -Xylene	8.403	74479	40.000 CAL	ppb	VV
4-bfb	8.693	47410	25.000 CAL	ppb	VV
Naphthalene	11.427	781	40.000 CAL	ppb	BB

?	0	0.000 CAL
?	0	0.000 CAL
?	0	0.000 CAL

SGS Environmental Services Inc.

Sample Name: BTEX 40

Date/Time: 6/22/2006 10:05:44 PM

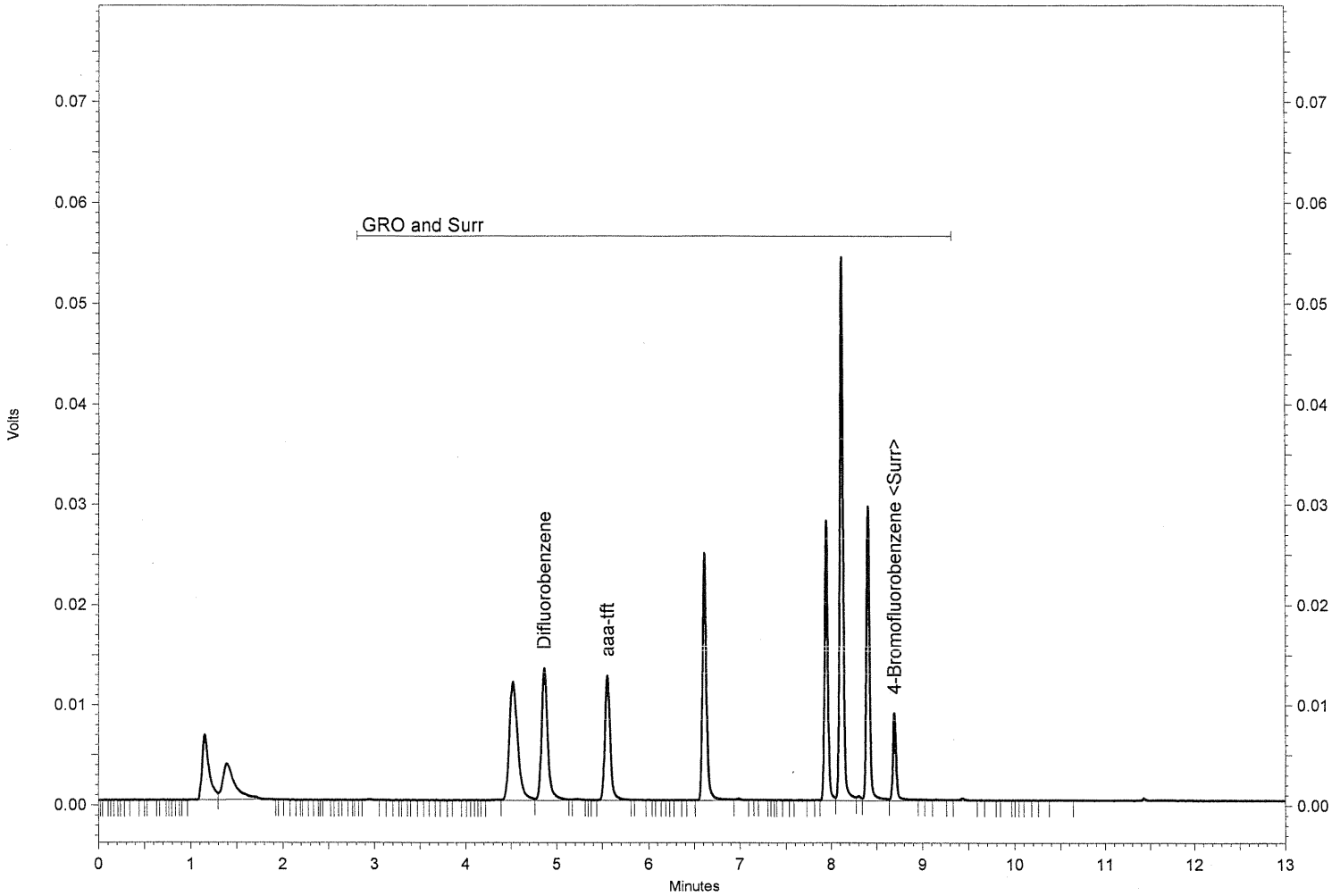
Analyst: MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_029.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.867	62961	50.000	CAL ppb	LL
aaa-tft	5.557	50540	50.000	CAL ppb	LL
4-Bromofluorobenzene <Surr>	8.697	22572	25.000	CAL ppb	LL
GRO		448318	0.000	CAL ppb	
GRO and Surr		584391	0.000	CAL ppb	

SGS Environmental Services Inc.

Sample Name: BTEX 120

Date/Time: 6/22/2006 10:31:15 PM

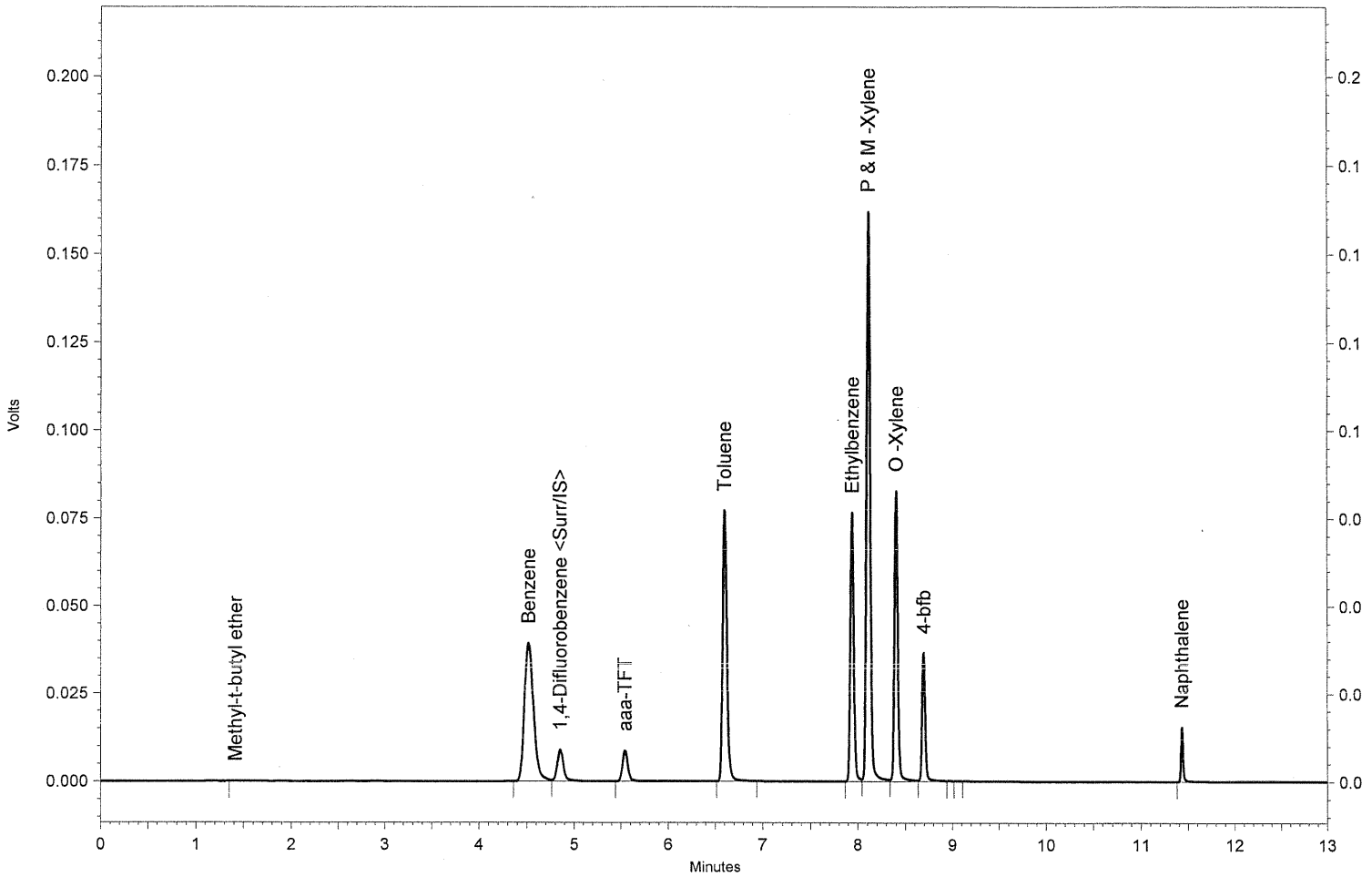
Analyst: MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_030.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Methyl-t-butyl ether	1.413	384	120.000 CAL	ppb	BB
Benzene	4.520	267441	120.000 CAL	ppb	BV
1,4-Difluorobenzene <Surr/IS>	4.853	41834	50.000 CAL	ppb	VB
aaa-TFT	5.543	34597	0.000 CAL	ppb	BB
Toluene	6.603	239180	120.000 CAL	ppb	BV
Ethylbenzene	7.940	197420	120.000 CAL	ppb	BV
P & M -Xylene	8.110	437979	240.000 CAL	ppb	VV
O -Xylene	8.403	209624	120.000 CAL	ppb	VV
4-bfb	8.693	89356	50.000 CAL	ppb	VV
Naphthalene	11.430	25663	120.000 CAL	ppb	BB

? 0 0.000 CAL
 ? 0 0.000 CAL
 ? 0 0.000 CAL

SGS Environmental Services Inc.

Sample Name: BTEX 120

Date/Time: 6/22/2006 10:31:15 PM

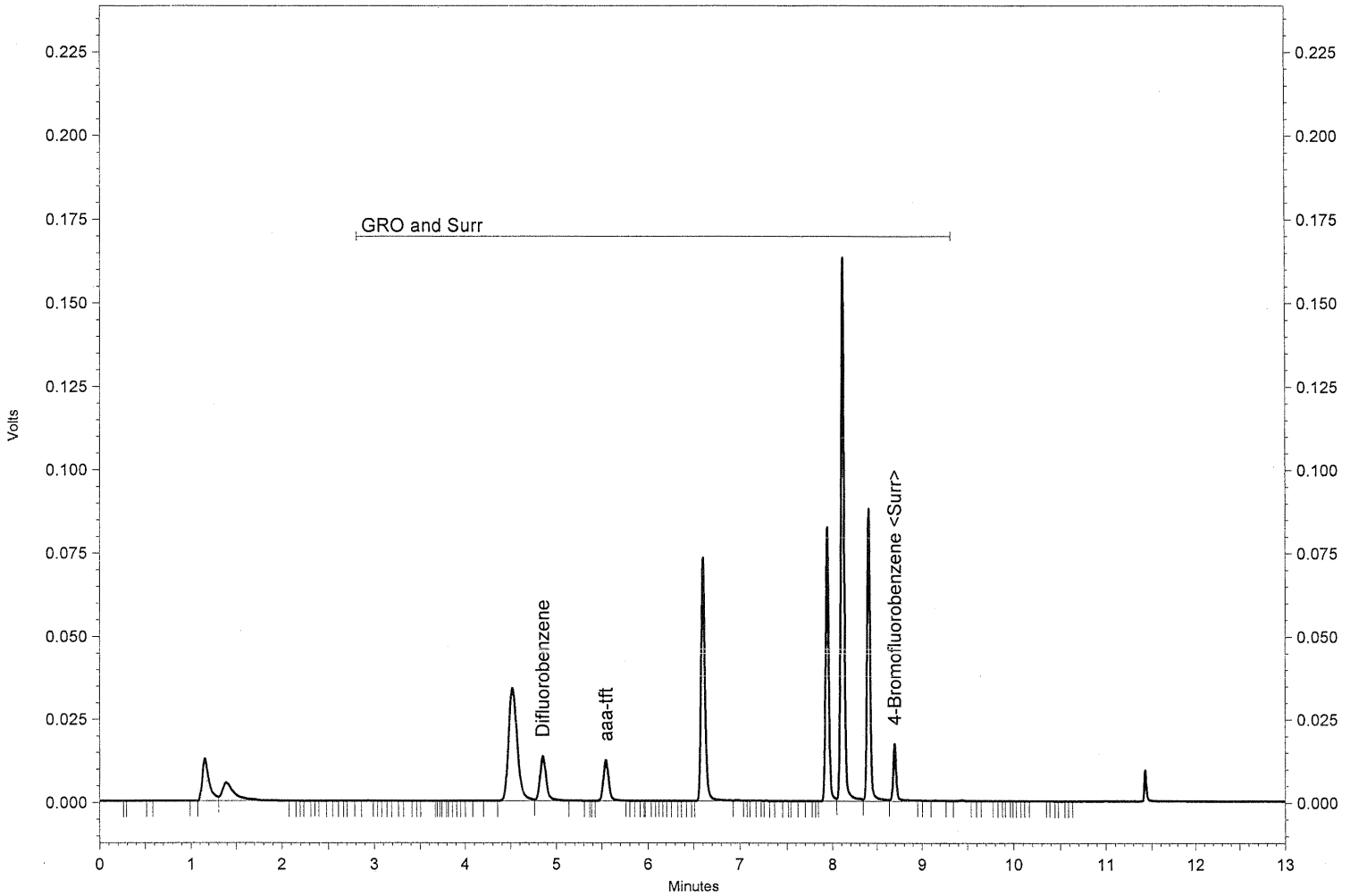
Analyst: MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_030.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.853	64838	50.000 CAL	ppb	LL
aaa-tft	5.547	50560	50.000 CAL	ppb	LL
4-Bromofluorobenzene <Surr>	8.697	45090	50.000 CAL	ppb	LL
GRO		1317261	0.000 CAL	ppb	
GRO and Surr		1477749	0.000 CAL	ppb	

SGS Environmental Services Inc.

Sample Name: BTEX 200

Date/Time: 6/22/2006 10:56:11 PM

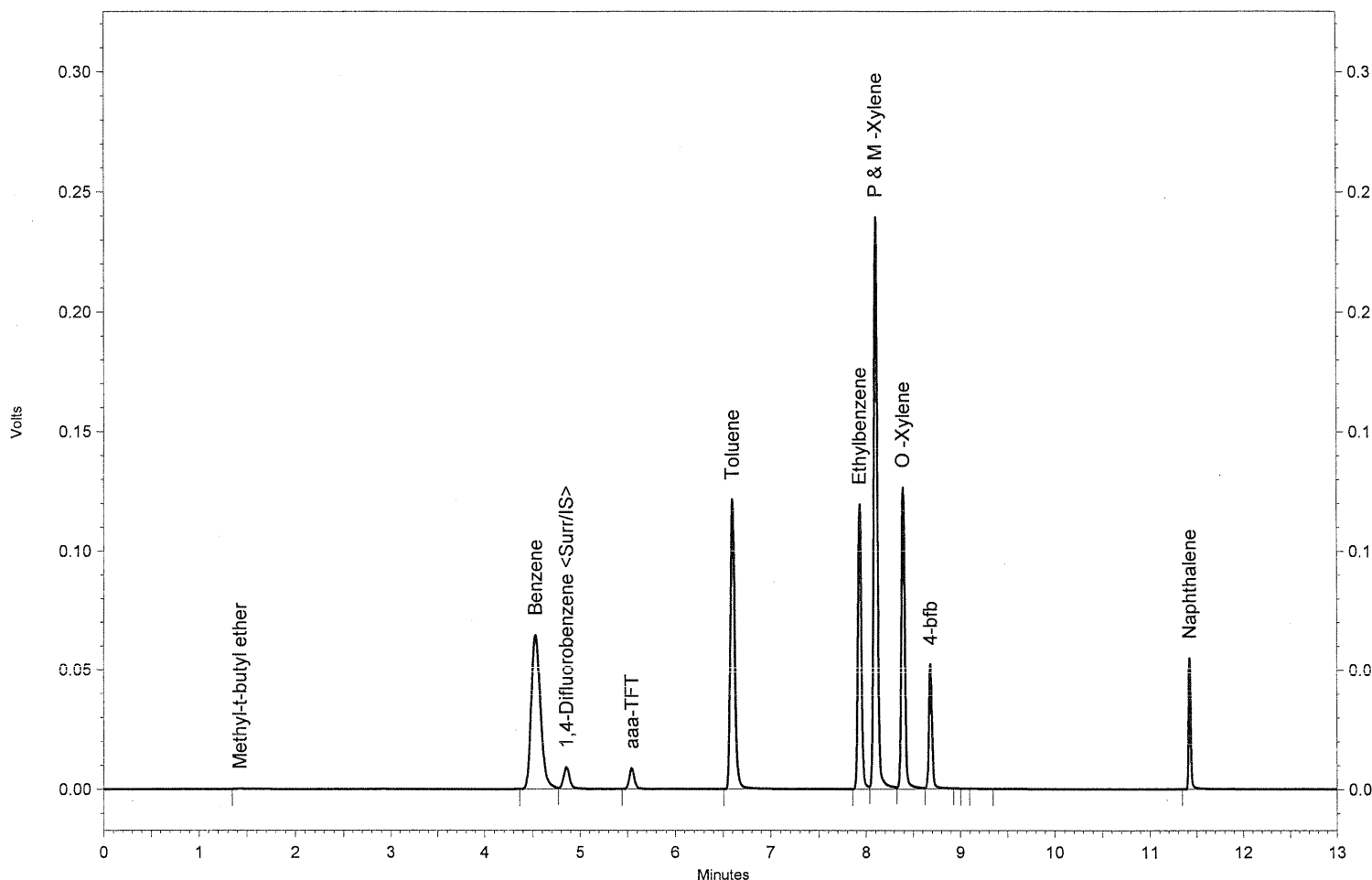
Analyst: MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_031.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Methyl-t-butyl ether	1.423	1458	200.000 CAL	ppb	BB
Benzene	4.530	441411	200.000 CAL	ppb	BV
1,4-Difluorobenzene <Surr/IS>	4.857	45189	50.000 CAL	ppb	VV
aaa-TFT	5.547	35051	0.000 CAL	ppb	VB
Toluene	6.600	385253	200.000 CAL	ppb	BB
Ethylbenzene	7.933	314143	200.000 CAL	ppb	BV
P & M -Xylene	8.103	672267	400.000 CAL	ppb	VV
O -Xylene	8.393	332597	200.000 CAL	ppb	VV
4-bfb	8.683	130484	75.000 CAL	ppb	VV
Naphthalene	11.420	89026	200.000 CAL	ppb	BB

? 0 0.000 CAL
 ? 0 0.000 CAL
 ? 0 0.000 CAL

SGS Environmental Services Inc.

Sample Name: BTEX 200

Date/Time: 6/22/2006 10:56:11 PM

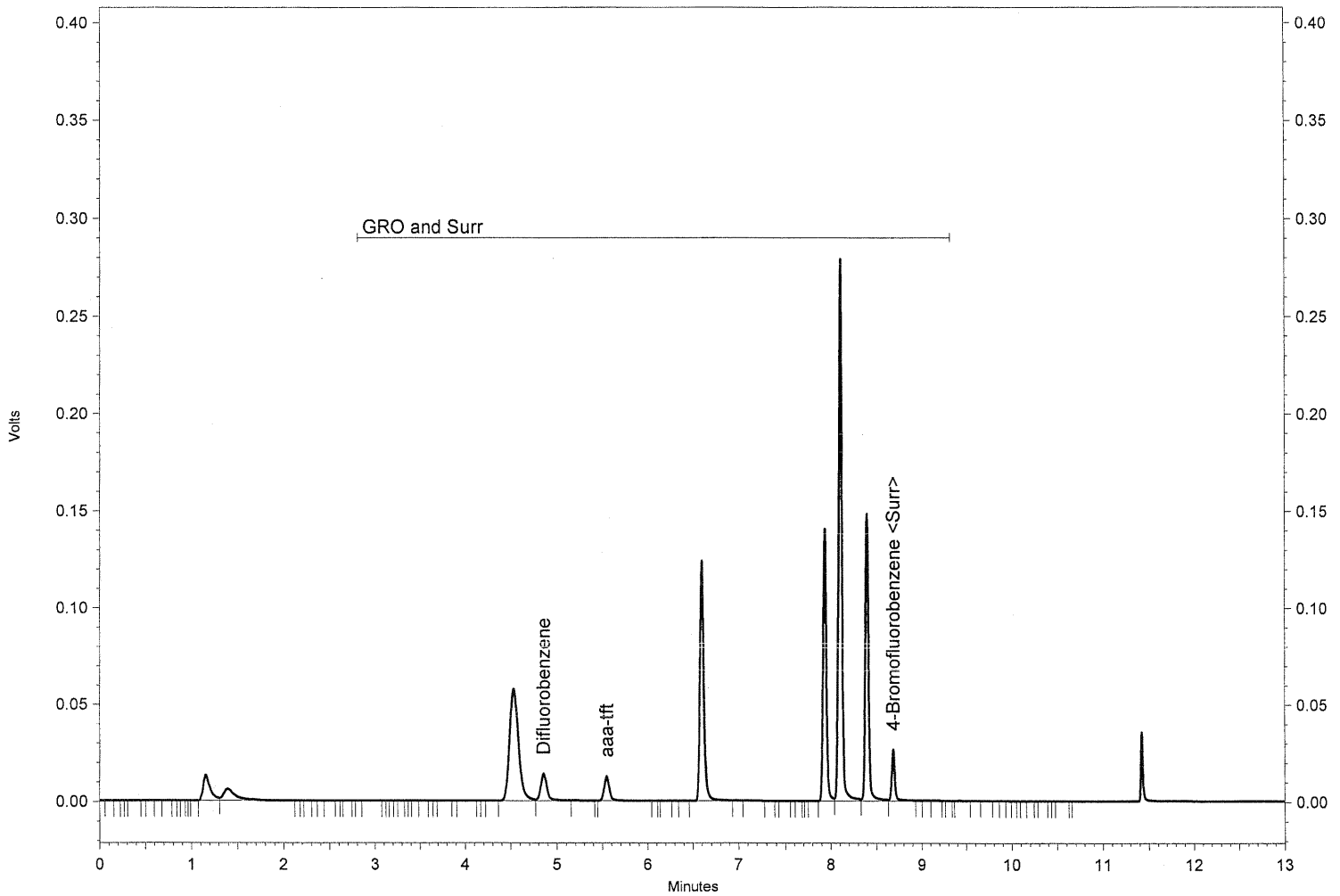
Analyst: MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_031.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.857	67477	50.000 CAL	ppb	LL
aaa-tft	5.547	52387	50.000 CAL	ppb	LL
4-Bromofluorobenzene <Surr>	8.687	69081	75.000 CAL	ppb	LL
GRO		2229077	0.000 CAL	ppb	
GRO and Surr		2418022	0.000 CAL	ppb	

SGS Environmental Services Inc.

Sample Name: BTEX 240

Date/Time: 6/22/2006 11:21:08 PM

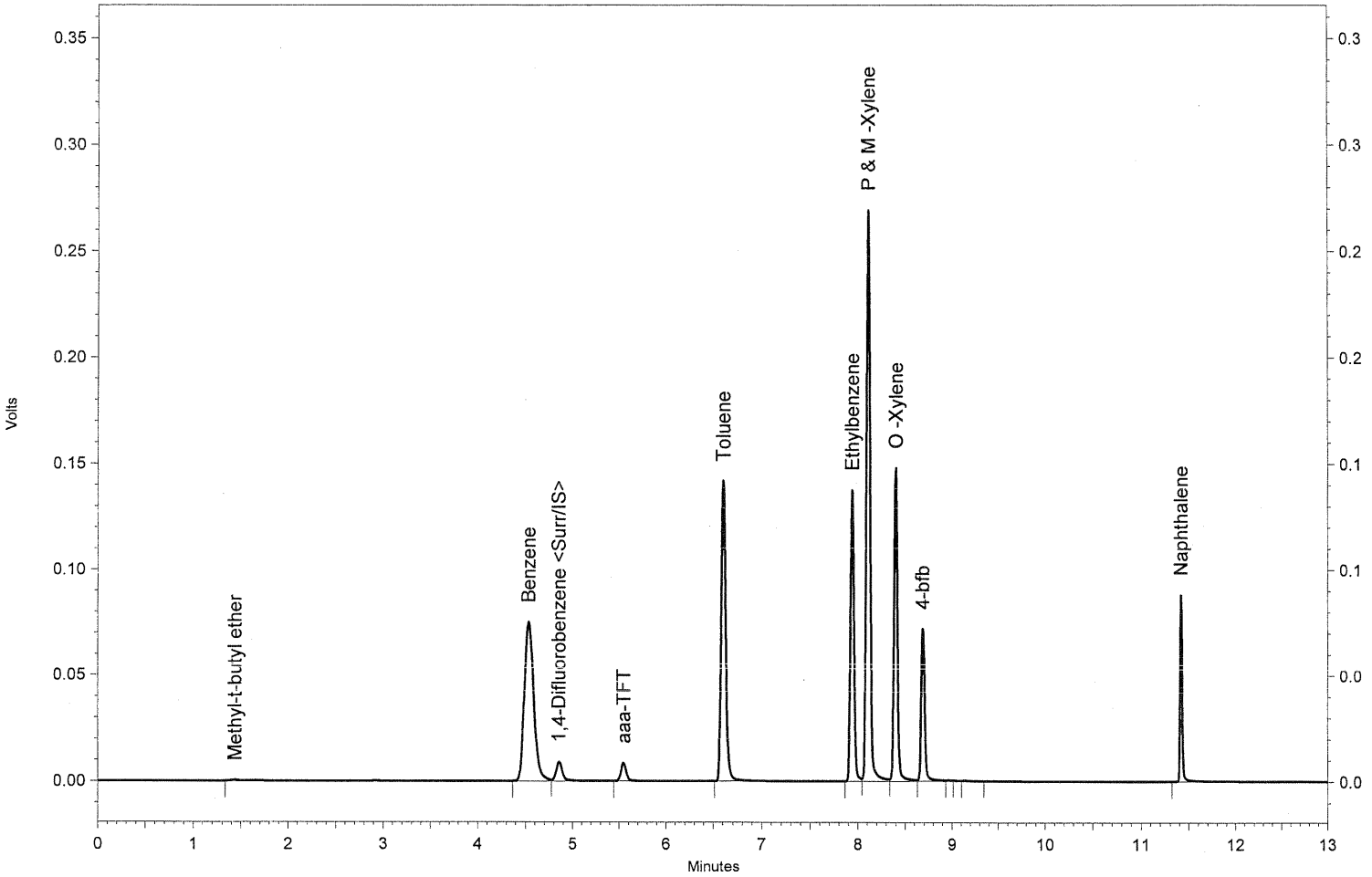
Analyst: MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_032.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Methyl-t-butyl ether	1.437	2085	240.000 CAL	ppb	BB
Benzene	4.533	518623	240.000 CAL	ppb	BV
1,4-Difluorobenzene <Surr/IS>	4.857	45155	50.000 CAL	ppb	VV
aaa-TFT	5.550	34343	0.000 CAL	ppb	VB
Toluene	6.610	449764	240.000 CAL	ppb	BB
Ethylbenzene	7.940	363973	240.000 CAL	ppb	BV
P & M -Xylene	8.113	767859	480.000 CAL	ppb	VV
O -Xylene	8.403	385786	240.000 CAL	ppb	VV
4-bfb	8.687	192772	125.000 CAL	ppb	VV
Naphthalene	11.417	144434	240.000 CAL	ppb	BB
?		0	0.000 CAL		
?		0	0.000 CAL		
?		0	0.000 CAL		

SGS Environmental Services Inc.

Sample Name: BTEX 240

Date/Time: 6/22/2006 11:21:08 PM

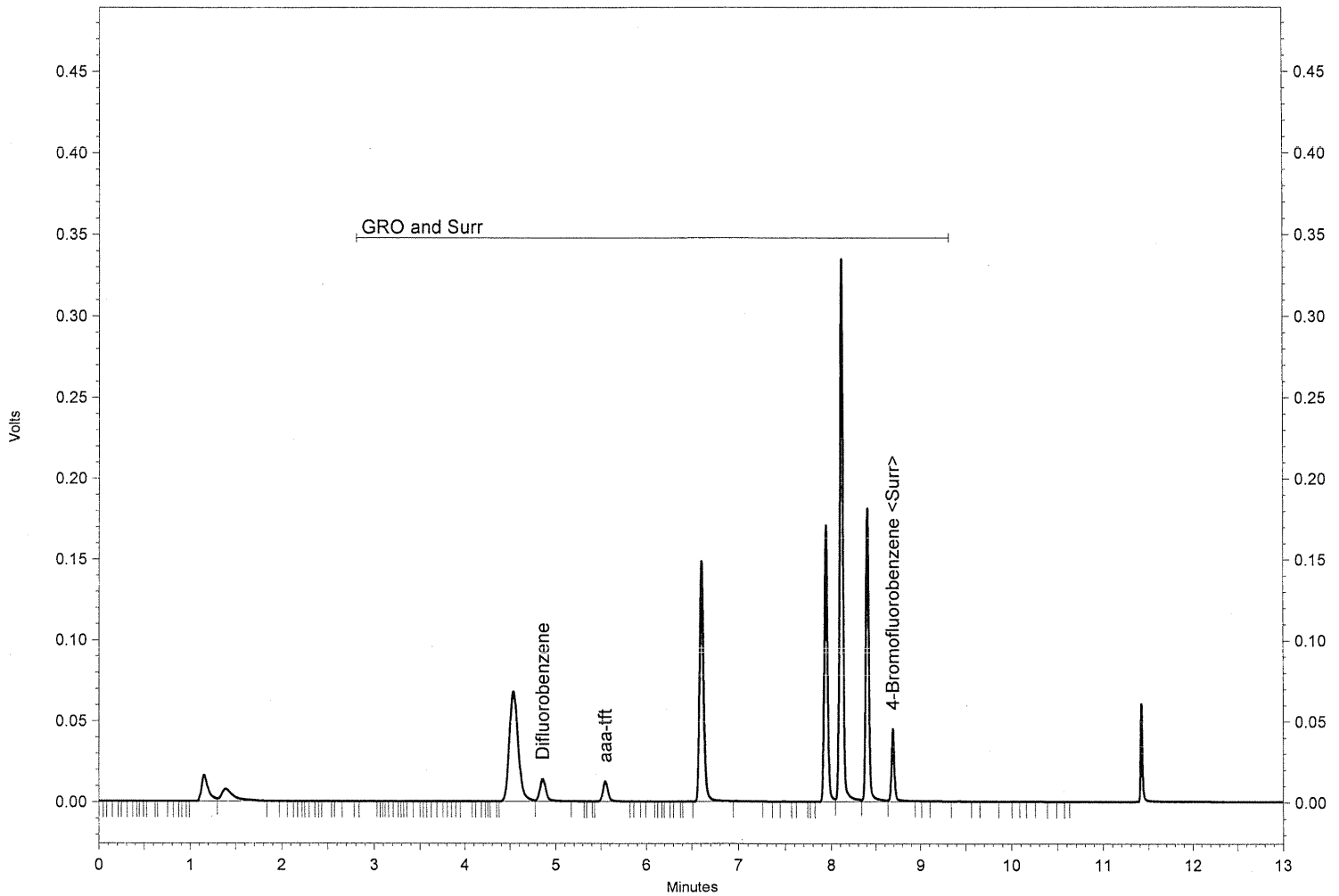
Analyst: MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_032.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.860	67972	50.000 CAL	ppb	LL
aaa-tft	5.550	51433	50.000 CAL	ppb	LL
4-Bromofluorobenzene <Surr>	8.690	112688	125.000 CAL	ppb	LL
GRO		2675728	0.000 CAL	ppb	
GRO and Surr		2907821	0.000 CAL	ppb	

SGS Environmental Services Inc.

Sample Name: BTEX 0.5

Date/Time: 6/23/2006 11:10:24 AM

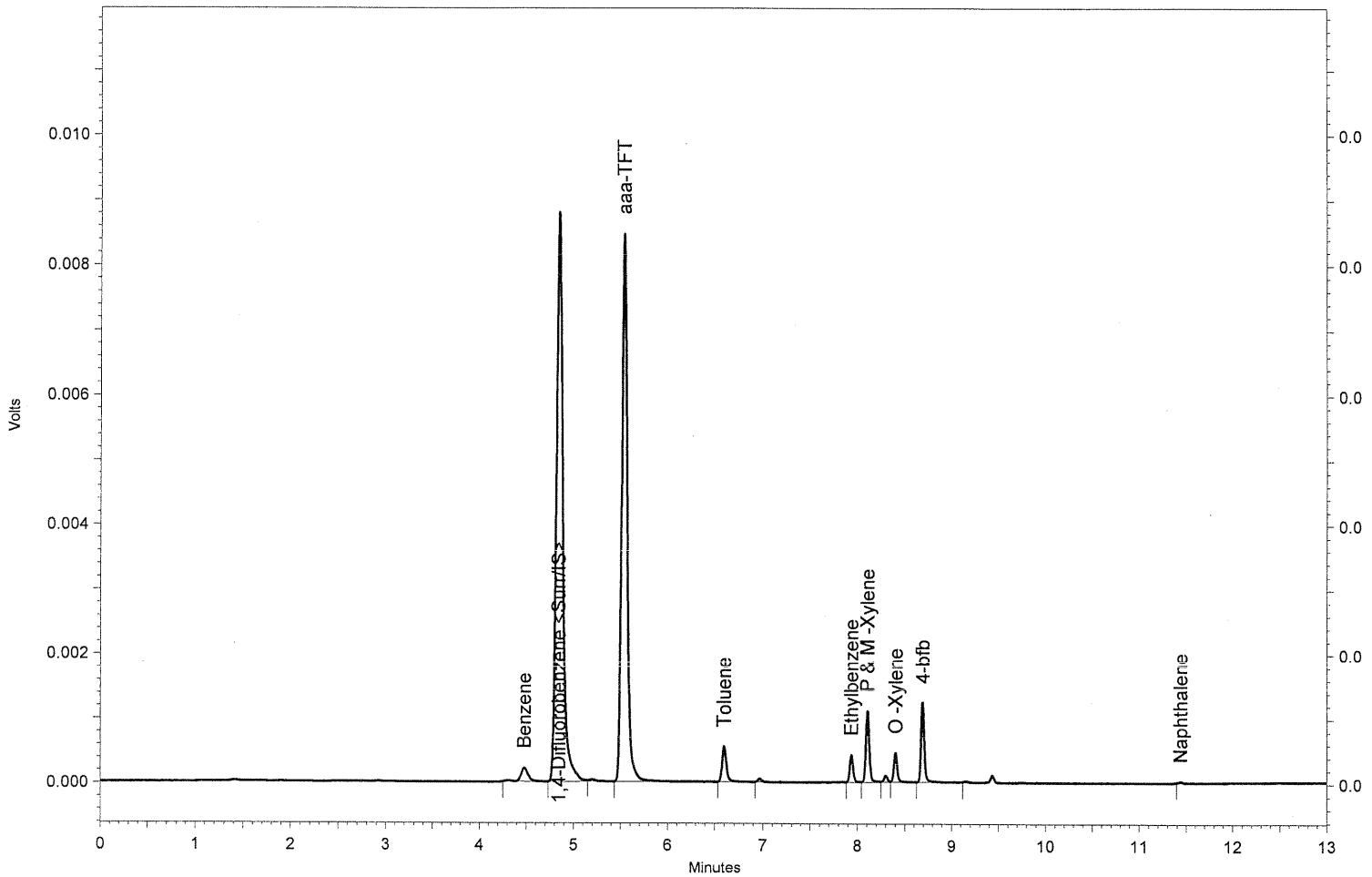
Analyst: MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_052.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.480	1199	0.500 CAL	ppb	BB
1,4-Difluorobenzene <Surr/IS>	4.847	41873	50.000 CAL	ppb	BV
aaa-TFT	5.537	33886	0.000 CAL	ppb	BB
Toluene	6.600	1682	0.000 CAL	ppb	BB
Ethylbenzene	7.937	1068	0.000 CAL	ppb	BV
P & M-Xylene	8.107	2867	0.000 CAL	ppb	VV
O-Xylene	8.403	1158	0.000 CAL	ppb	VB
4-bfb	8.693	2976	0.000 CAL	ppb	BB
Naphthalene	11.440	63	0.000 CAL	ppb	BB
?		0	0.000 CAL		
?		0	0.000 CAL		
?		0	0.000 CAL		

SGS Environmental Services Inc.

Sample Name: BTEX 0.5

Date/Time: 6/23/2006 11:10:24 AM

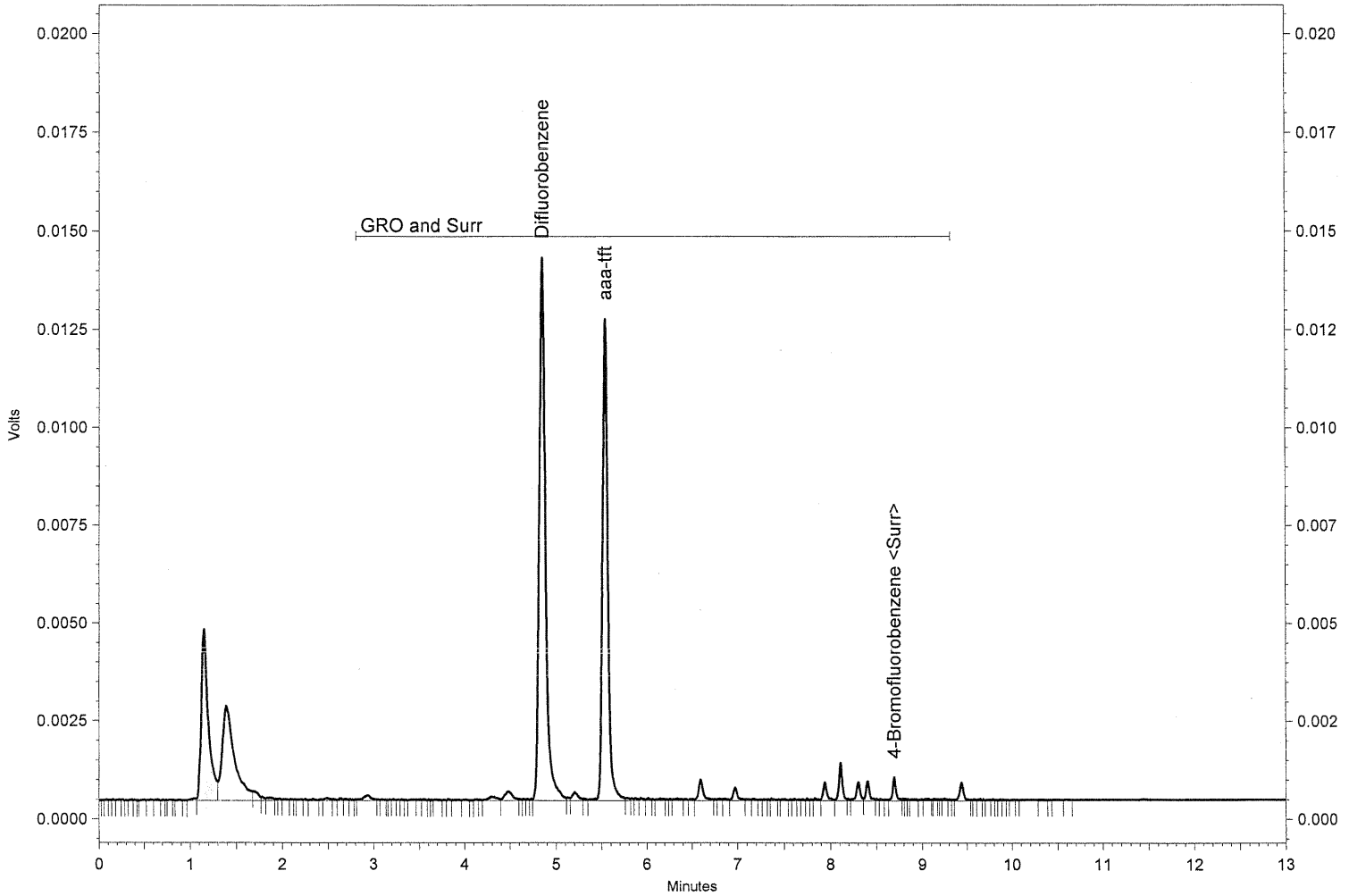
Analyst: MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_052.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.850	66957	0.000 CAL	ppb	LL
aaa-tft	5.540	49968	50.000 CAL	ppb	LL
4-Bromofluorobenzene <Surr>	8.697	1662	0.000 CAL	ppb	LL
GRO		21083	0.000 CAL	ppb	
GRO and Surr		139670	0.000 CAL	ppb	

SGS Environmental Services Inc.

Sample Name: BTEX 1.0

Date/Time: 6/23/2006 11:35:32 AM

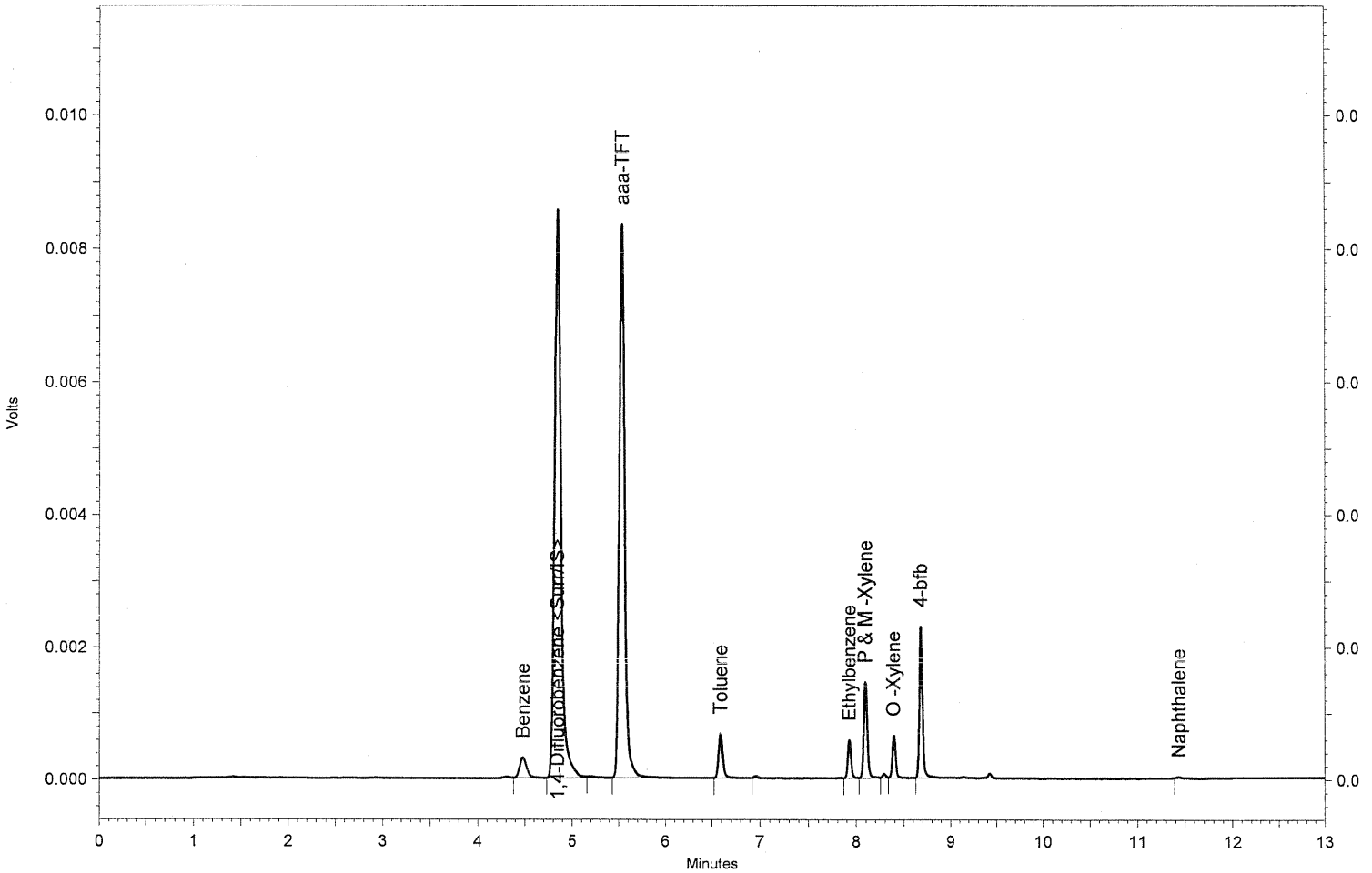
Analyst: MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\06210622_053.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.480	1593	1.000 CAL	ppb	BB
1,4-Difluorobenzene <Surr/IS>	4.847	40628	50.000 CAL	ppb	BV
aaa-TFT	5.533	33532	0.000 CAL	ppb	BB
Toluene	6.590	2060	1.000 CAL	ppb	BB
Ethylbenzene	7.927	1442	1.000 CAL	ppb	BV
P & M -Xylene	8.097	3767	2.000 CAL	ppb	VV
O -Xylene	8.390	1617	1.000 CAL	ppb	VB
4-bfb	8.680	5515	0.000 CAL	ppb	BB
Naphthalene	11.433	60	1.000 CAL	ppb	BB
?		0	0.000 CAL		
?		0	0.000 CAL		
?		0	0.000 CAL		

SGS Environmental Services Inc.

Sample Name: BTEX 1.0

Date/Time: 6/23/2006 11:35:32 AM

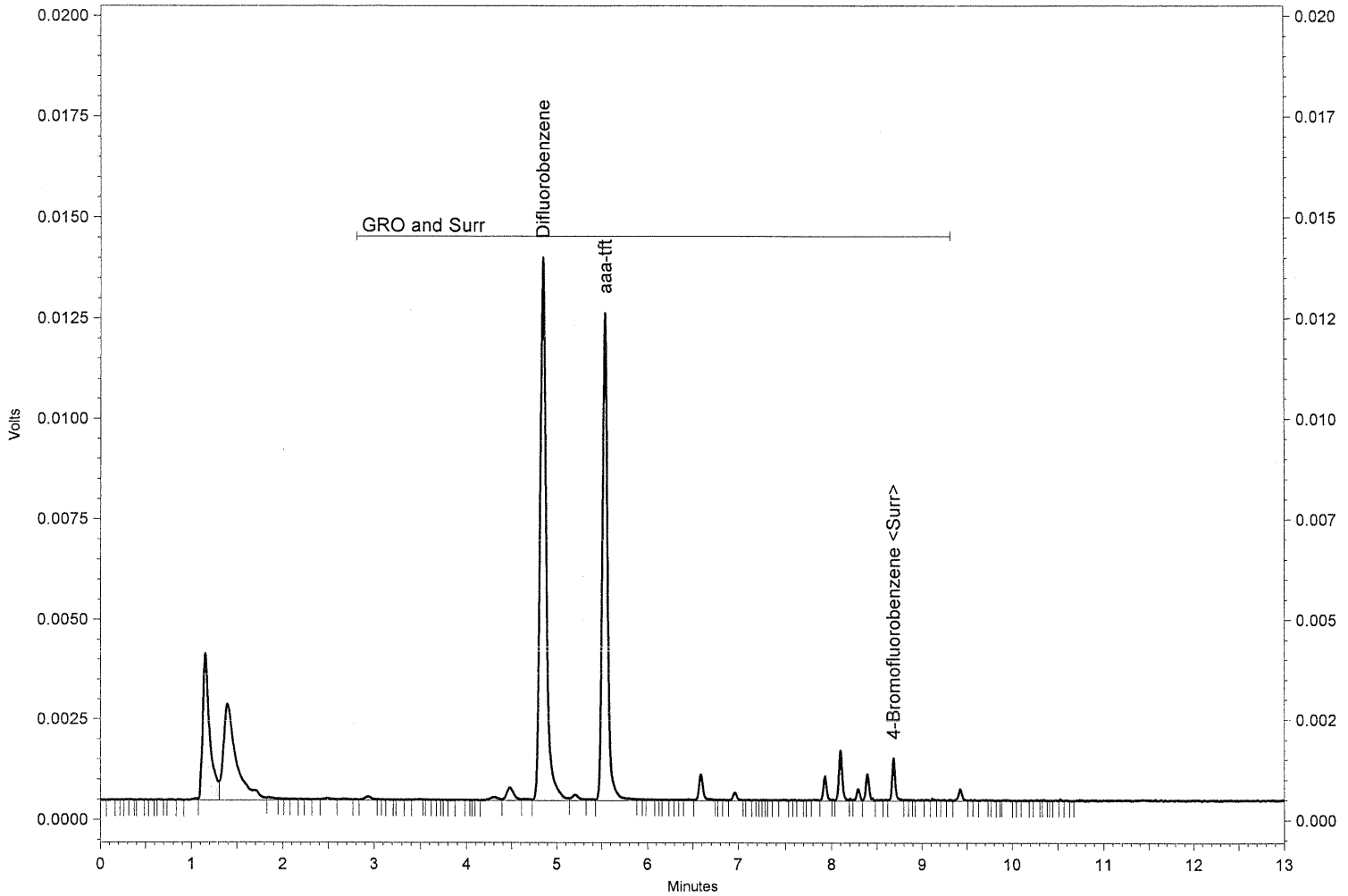
Analyst: MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_053.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.847	65056	0.000 CAL	ppb	LL
aaa-tft	5.533	49659	50.000 CAL	ppb	LL
4-Bromofluorobenzene <Surr>	8.683	2774	0.000 CAL	ppb	LL
GRO		19614	0.000 CAL	ppb	
GRO and Surr		137103	0.000 CAL	ppb	

SGS Environmental Services Inc.

Sample Name: BTEX 10

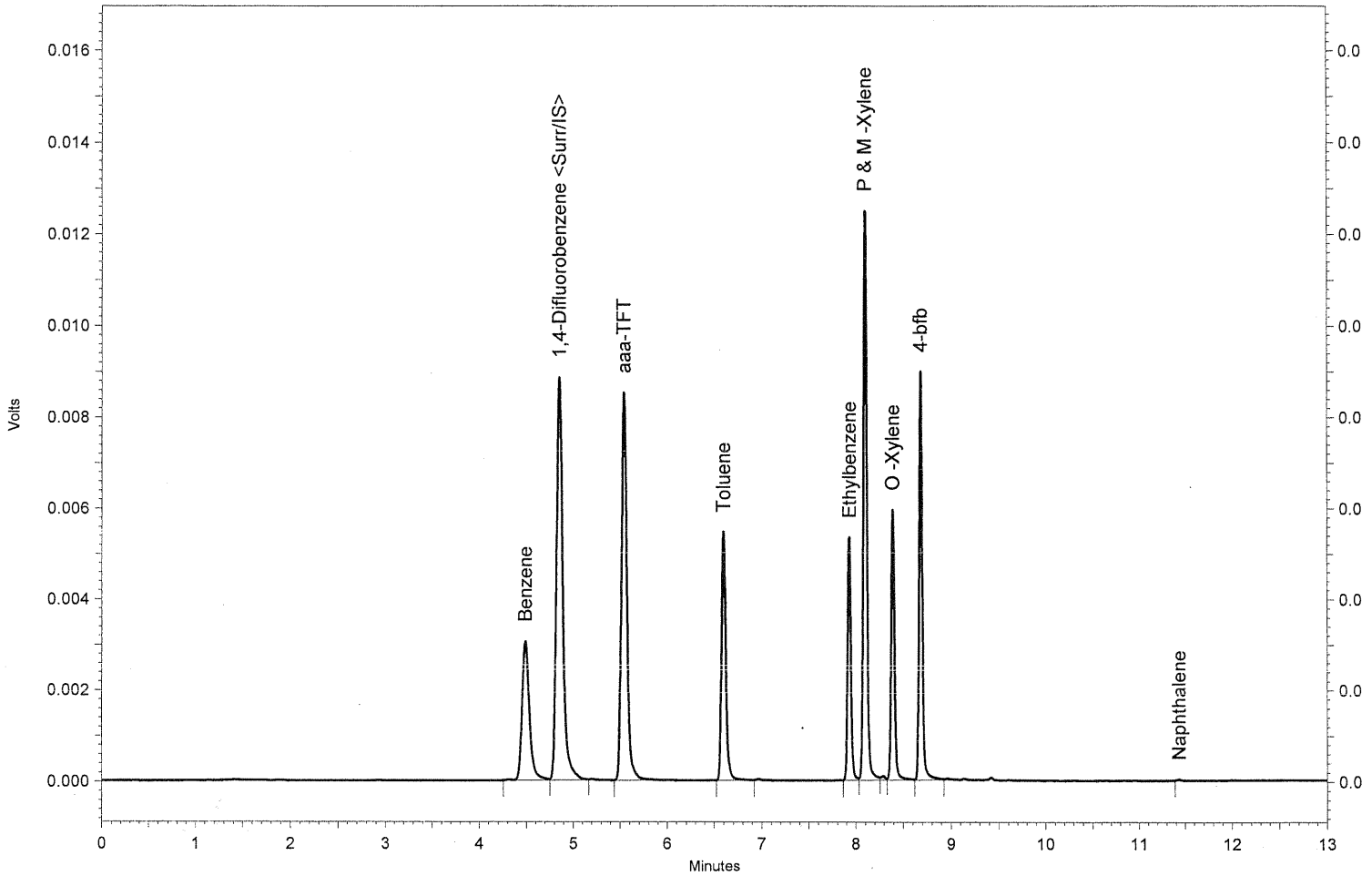
Date/Time: 6/23/2006 12:00:36 PM

Analyst: MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_054.dat
PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.490	16814	10.000 CAL	ppb	BV
1,4-Difluorobenzene <Surr/IS>	4.853	41996	50.000 CAL	ppb	VV
aaa-TFT	5.540	34077	0.000 CAL	ppb	BB
Toluene	6.597	16557	10.000 CAL	ppb	BV
Ethylbenzene	7.930	13297	10.000 CAL	ppb	BV
P & M -Xylene	8.097	32234	20.000 CAL	ppb	VV
O -Xylene	8.390	14775	10.000 CAL	ppb	VV
4-bfb	8.680	21325	12.500 CAL	ppb	VV
Naphthalene	11.433	69	10.000 CAL	ppb	BB

?	0	0.000 CAL
?	0	0.000 CAL
?	0	0.000 CAL

SGS Environmental Services Inc.

Sample Name: BTEX 10

Date/Time: 6/23/2006 12:00:36 PM

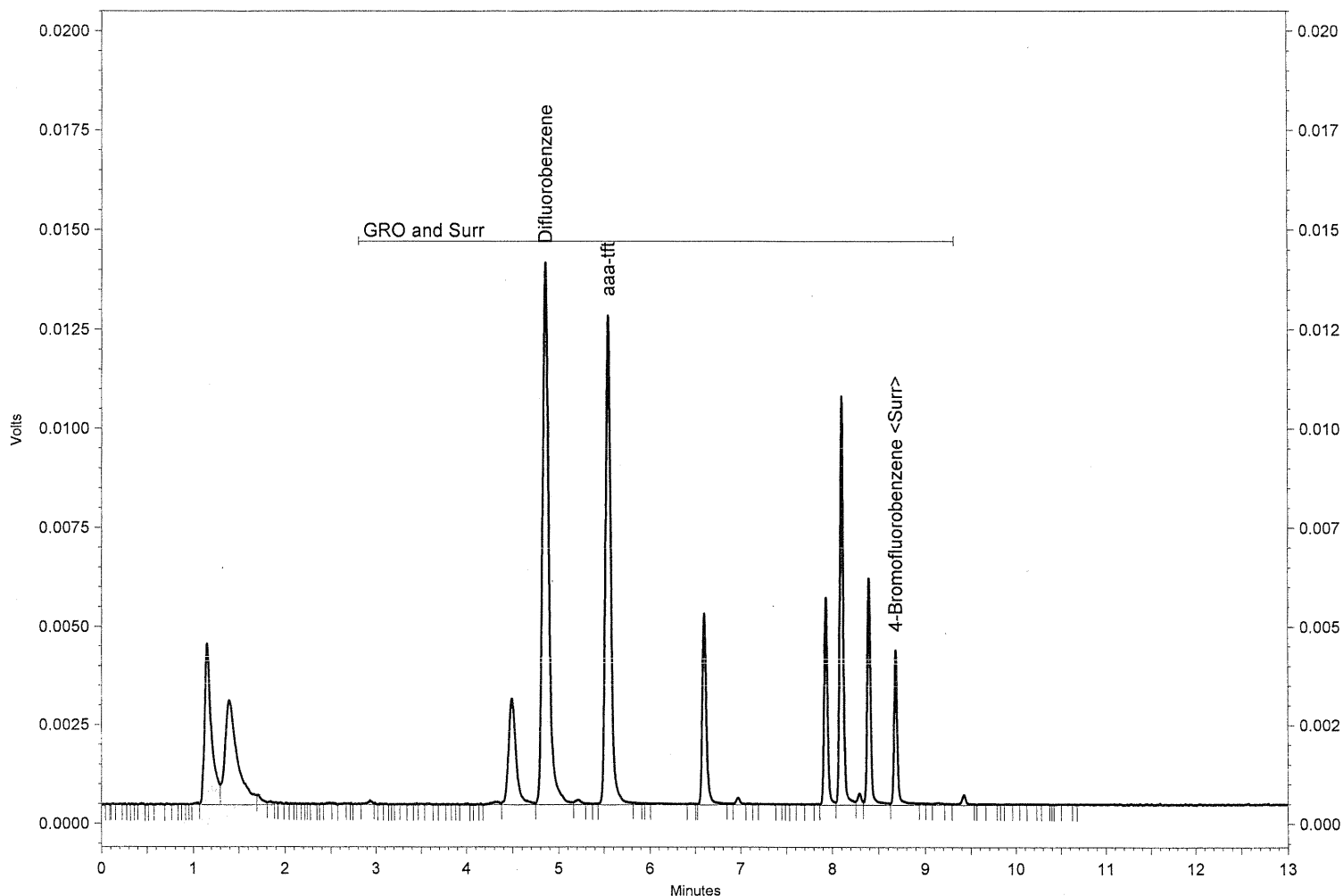
Analyst: MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_054.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.857	65881	50.000 CAL	ppb	LL
aaa-tft	5.543	50107	50.000 CAL	ppb	LL
4-Bromofluorobenzene <Surr>	8.683	10123	12.500 CAL	ppb	LL
GRO		93463	0.000 CAL	ppb	
GRO and Surr		219574	0.000 CAL	ppb	

SGS Environmental Services Inc.

Sample Name: ICV BTEX

Date/Time: 6/23/2006 1:17:05 PM

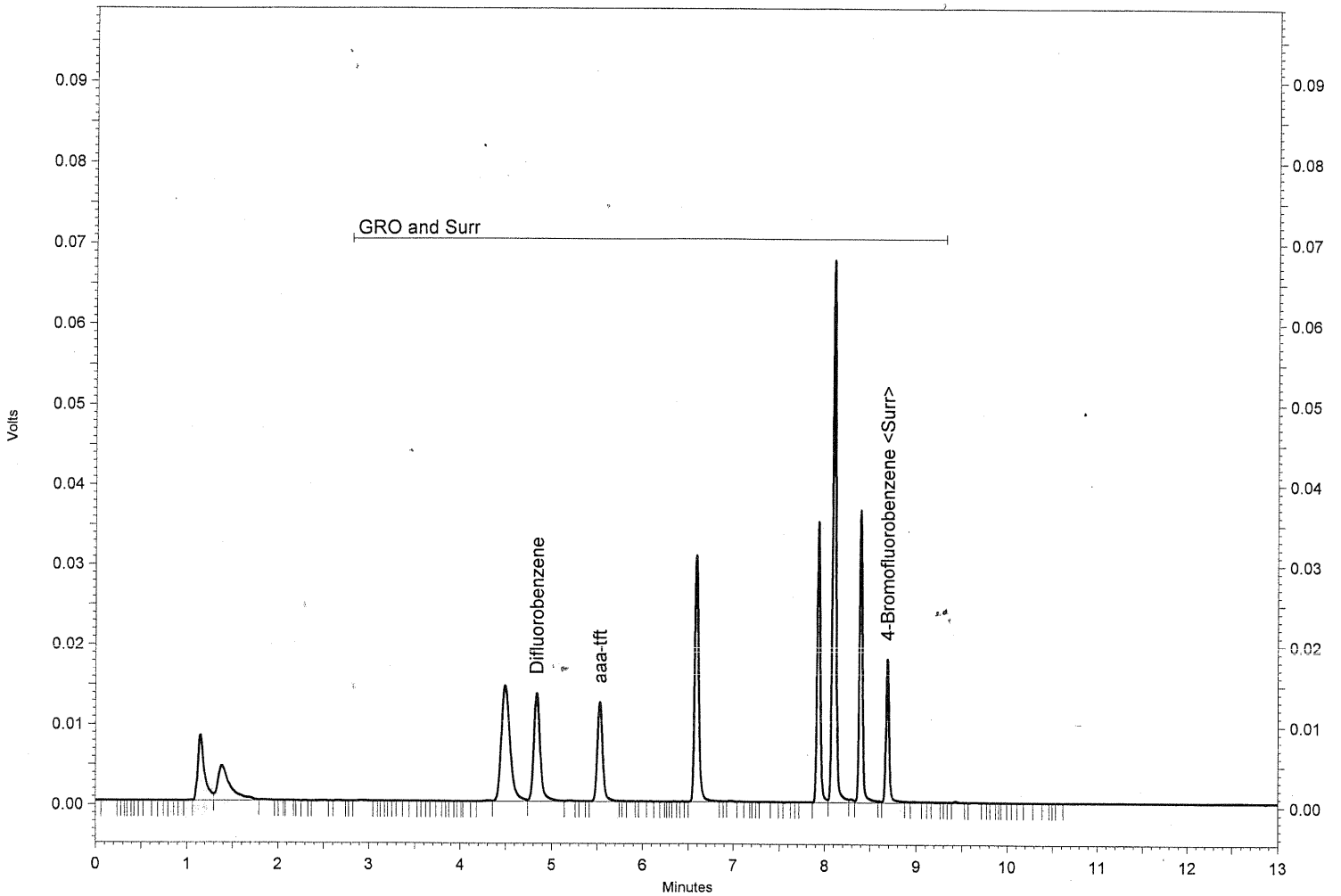
Analyst: MCM

Method: E:\Public\2006\06\VBA\Method\VBA062206.met

Dilution: 1

Sample File: E:\Public\2006\06\VBA\Data\062106\VBA060210622_057.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.837	64927	49.317	ppb	LL
aaa-tft	5.530	50550	49.887	ppb	LL
4-Bromofluorobenzene <Surr>	8.687	43810	49.368	ppb	LL
GRO		557098	586.483	ppb	
GRO and Surr		716385	754.172	ppb	

AUG 23 2006

Scanned

Ln 08/23/06



SGS Environmental Services
Calibration Review and Validation for:
Volatile Fuels - AK101/8021B or 8015B/8021B

VCA 82106 pg. 175

Instrument/Date Code (e.g., VBA0622): VCA0821 Year: 2006

Contents:

- Chromatograms and method reports for IB, NAS, ICV and Cal Std
- Calibration reports for Surr / BTEX / 101 / MTBE / Naphthalene
- Runlog EzChrom and logbook
- Logbook page reviewed
- Standards reviewed

Analyst's Initials:	Reviewer's Initials:	Date Reviewed:
<u>MM</u>	<u>DNA</u>	<u>5TH 8-23-06</u>
<u>MM</u>	<u>DNA</u>	|
<u>MM</u>	<u>DNA</u>	|
<u>MM</u>	<u>DNA</u>	|
<u>MM</u>	<u>-</u>	|

Validation:

- IB and NAS have been run at beginning of sequence
- The retention time window set correctly
GRO beginning of C6 → beginning of C10
- Calibration Fit type is Average RF
- The calibration curve contains at least 5 points
- The percent relative standard deviation of the response factor is <20%
- The percent RSD of the response factor is <10% for method 602
- Dates are correct
- Force through zero is off
- The ICV is 85-115% recovery for BTEX / MTBE / naphthalene MM 8/23/06
- The ICV is 75-125% recovery for GRO method AK101
- The ICV is 85-115% recovery for GRO method 8015
- The audit trail is on
- GRO named peak box is unchecked
- Hand calculations verified:

<u>MM</u>	<u>DNA</u>	<u>5TH 8-23-06</u>
<u>MM</u>	<u>DNA</u>	|
<u>MM</u>	<u>DNA</u>	|
<u>MM</u>	<u>DNA</u>	|
<u>MM</u>	<u>DNA</u>	|
<u>MM</u>	<u>DNA</u>	|
<u>MM</u>	<u>DNA</u>	|
<u>MM</u>	<u>DNA</u>	|
<u>MM</u>	<u>-</u>	|
<u>MM</u>	<u>-</u>	|
<u>MM</u>	<u>DNA</u>	|

Hand calculate response factor of BTEX (any one compound) using $RF = As \times Cis / Ais \times Cs$

$T@1.0$
 $\frac{1294.1}{22659} = .057$

Hand calculate ICV concentration of GRO using Area/RF

$\frac{633029}{1500.51} = 421.87$

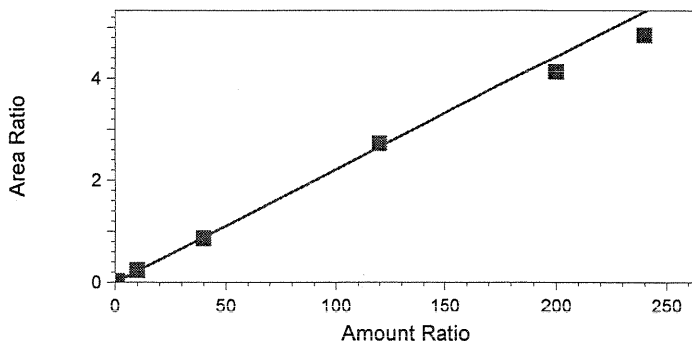
Calibration Report

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met
 Print Time: 8/23/2006 7:39:20 AM
 User: MCM
 Instrument: VCA (Offline)

methyl-t-butyl ether (PID)
 Average RF: 0.0221170 RF StDev: 0.00156018 RF %RSD: 7.05421
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 0.0221170

Peak: methyl-t-butyl ether -- ISTD -- PID



	Level 2	Level 3	Level 4	Level 5	Level 6
Amount Ratio	1	10	40	120	200
Area Ratio	0.0240081	0.235951	0.863384	2.71984	4.12854
RF	0.024008120	0.02359509759	0.021584604715	0.022665294187	0.0206427072
	3936626	41897	6727	8506	402938
Last Area Ratio					
Residual	-0.085507	-0.668325	0.962809	-2.97507	13.3315
Rep StDev					
Rep %RSD					
Rep 1 Area Ratio	0.0240081	0.235951	0.863384	2.71984	4.12854
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\08\VCA\data\082106\VCA08210821_035.dat	E:\Public\2006\08\VCA\data\082106\VCA0821_036.dat	E:\Public\2006\08\VCA\data\082106\VCA0821_037.dat	E:\Public\2006\08\VCA\data\082106\VCA0821_038.dat	E:\Public\2006\08\VCA\data\082106\VCA08210821_039.dat
Rep 1 Sample ID	BTEX 1.0	BTEX 10	BTEX 40	BTEX 120	BTEX 200
Rep 1 Calib. Time	8/22/2006 8:03:59 PM	8/22/2006 8:04:04 PM	8/22/2006 8:04:08 PM	8/22/2006 8:04:12 PM	8/22/2006 8:04:16 PM
	Level 7				
Amount Ratio	240				

Calibration Report

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met
Print Time: 8/23/2006 7:39:20 AM
User: MCM
Instrument: VCA (Offline)

Area Ratio	4.84943
RF	0.020205964
	8324996
Last Area Ratio	
Residual	20.737
Rep StDev	
Rep %RSD	
Rep 1 Area Ratio	4.84943
Rep 1 User	MCM
Rep 1 Data File	E:\Public\2006\08\VCA\data\082106\VCA08210821_040.dat
Rep 1 Sample ID	BTEX 240
Rep 1 Calib. Time	8/22/2006 8:04:20 PM

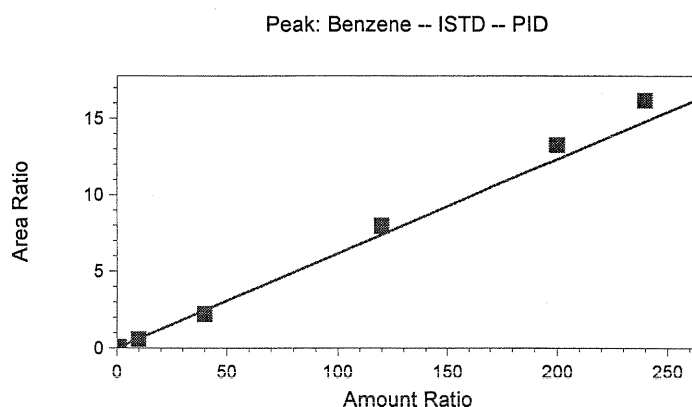
Calibration Report

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met
 Print Time: 8/23/2006 7:39:22 AM
 User: MCM
 Instrument: VCA (Offline)

Benzene (PID)

Average RF: 0.0615808 RF StDev: 0.00603709 RF %RSD: 9.80354
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 0.0615808



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount Ratio	0.5	1	10	40	120
Area Ratio	0.0326513	0.0535328	0.570676	2.20615	7.96581
RF	0.065302568	0.05353281256	0.057067635043	0.055153721682	0.0663817281
	567697	89571	123	8479	298484
Last Area Ratio					
Residual	-0.0302188	0.13069	0.732881	4.17471	-9.35543
Rep StDev					
Rep %RSD					
Rep 1 Area Ratio	0.0326513	0.0535328	0.570676	2.20615	7.96581
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\08\VCA\data\082106\VC A08210821_034.dat	E:\Public\2006\08\VCA\data\082106\VCA0821_0821_035.dat	E:\Public\2006\08\VCA\data\082106\VCA0821_106\VCA0821_821_036.dat	E:\Public\2006\08\VCA\data\082106\VCA0821_106\VCA0821_821_037.dat	E:\Public\2006\08\VCA\data\082106\VCA08210821_038.dat
Rep 1 Sample ID	BTEX .5	BTEX 1.0	BTEX 10	BTEX 40	BTEX 120
Rep 1 Calib. Time	8/22/2006 8:03:56 PM	8/22/2006 8:03:59 PM	8/22/2006 8:04:04 PM	8/22/2006 8:04:08 PM	8/22/2006 8:04:12 PM
	Level 6	Level 7			
Amount Ratio	200	240			

Calibration Report

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met
 Print Time: 8/23/2006 7:39:22 AM
 User: MCM
 Instrument: VCA (Offline)

Area Ratio	13.2559	16.1634
RF	0.066279293	0.06734765802
	4592515	63756
Last Area Ratio		
Residual	-15.2597	-22.4754
Rep StDev		
Rep %RSD		
Rep 1 Area Ratio	13.2559	16.1634
Rep 1 User	MCM	MCM
Rep 1 Data File	E:\Public\2006\08\VCA\data\082106\VC	E:\Public\2006\08\VCA\data\082106\VC
	A08210821_039.dat	0821_040.dat
Rep 1 Sample ID	BTEX 200	BTEX 240
Rep 1 Calib. Time	8/22/2006 8:04:16 PM	8/22/2006 8:04:20 PM

Calibration Report

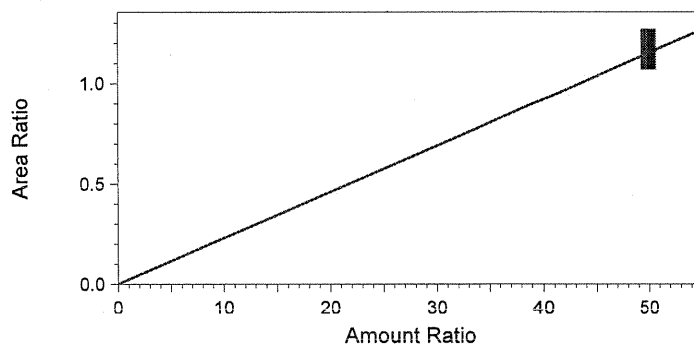
Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met
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 User: MCM
 Instrument: VCA (Offline)

1,4-Difluorobenzene <Surr/IS> (PID)

Average RF: 0.0230028 RF StDev: 0.000955890 RF %RSD: 4.15554
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 0.0230028

Peak: 1,4-Difluorobenzene <Surr/IS> -- ISTD -- PID



	Level 2	Level 3	Level 4	Level 5	Level 6
Amount Ratio	50	50	50	50	50
Area Ratio	1.11744	1.10499	1.11979	1.14796	1.17987
RF	0.022348735	0.02209986382	0.022395746648	0.022959183673	0.0235974116
	6017477	20608	1738	4694	824064
Last Area Ratio					
Residual	1.42166	1.96262	1.31948	0.0947617	-1.29252
Rep StDev					
Rep %RSD					
Rep 1 Area Ratio	1.11744	1.10499	1.11979	1.14796	1.17987
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\08\VCA\data\082106\VC A08210821_035.dat	E:\Public\2006\08\VCA\data\082106\VCA0821_0821_036.dat	E:\Public\2006\08\VCA\data\082106\VCA0821_0821_037.dat	E:\Public\2006\08\VCA\data\082106\VCA0821_0821_038.dat	E:\Public\2006\08\VCA\data\082106\VCA08210821_039.dat
Rep 1 Sample ID	BTEX 1.0	BTEX 10	BTEX 40	BTEX 120	BTEX 200
Rep 1 Calib. Time	8/22/2006 8:03:59 PM	8/22/2006 8:04:04 PM	8/22/2006 8:04:08 PM	8/22/2006 8:04:12 PM	8/22/2006 8:04:16 PM
	Level 7				
Amount Ratio	50				

Calibration Report

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Print Time: 8/23/2006 7:39:23 AM

User: MCM

Instrument: VCA (Offline)

Area Ratio	1.23079
RF	0.024615734
	4247385
Last Area Ratio	
Residual	-3.506
Rep StDev	
Rep %RSD	
Rep 1 Area Ratio	1.23079
Rep 1 User	MCM
Rep 1 Data File	E:\Public\2006\08\VCA\data\082106\VCA08210821_040.dat
Rep 1 Sample ID	BTEX 240
Rep 1 Calib. Time	8/22/2006 8:04:20 PM

Calibration Report

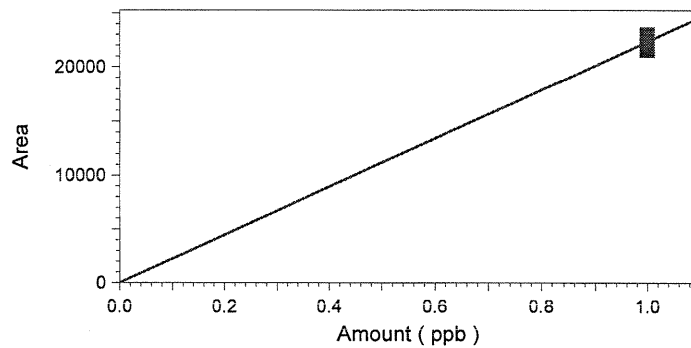
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 User: MCM
 Instrument: VCA (Offline)

aaa - TFT (PID)

Average RF: 22356.4 RF StDev: 500.418 RF %RSD: 2.23836
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 22356.4

Peak: aaa - TFT -- ESTD -- PID



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	1	1	1	1	1
Area	22970	22659	22030	21630	22344
RF	22970	22659	22030	21630	22344
Last Area					
Residual	-0.027445	-0.013534	0.0146011	0.0324931	0.000555928
Rep StDev					
Rep %RSD					
Rep 1 Area	22970	22659	22030	21630	22344
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\08\VCA\data\082106\VC A08210821_034.dat	E:\Public\2006\08\VCA\data\082106\VCA0821_0821_035.dat	E:\Public\2006\08\VCA\data\082106\VCA0821_0821_036.dat	E:\Public\2006\08\VCA\data\082106\VCA0821_0821_037.dat	E:\Public\2006\08\VCA\data\082106\VCA08210821_038.dat
Rep 1 Sample ID	BTEX .5	BTEX 1.0	BTEX 10	BTEX 40	BTEX 120
Rep 1 Calib. Time	8/22/2006 8:03:56 PM	8/22/2006 8:03:59 PM	8/22/2006 8:04:04 PM	8/22/2006 8:04:08 PM	8/22/2006 8:04:12 PM
	Level 6	Level 7			
Amount	1	1			
Area	22872	21990			

Calibration Report

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met
 Print Time: 8/23/2006 7:39:24 AM
 User: MCM
 Instrument: VCA (Offline)

RF	22872	21990
Last Area		
Residual	-0.0230614	0.0163903
Rep StDev		
Rep %RSD		
Rep 1 Area	22872	21990
Rep 1 User	MCM	MCM
Rep 1 Data File	E:\Public\2006\08\VCA\data\082106\VC A08210821_039.dat	E:\Public\2006\08\VCA\data\082106\VCA08210821_040.dat
Rep 1 Sample ID	BTEX 200	BTEX 240
Rep 1 Calib. Time	8/22/2006 8:04:16 PM	8/22/2006 8:04:20 PM

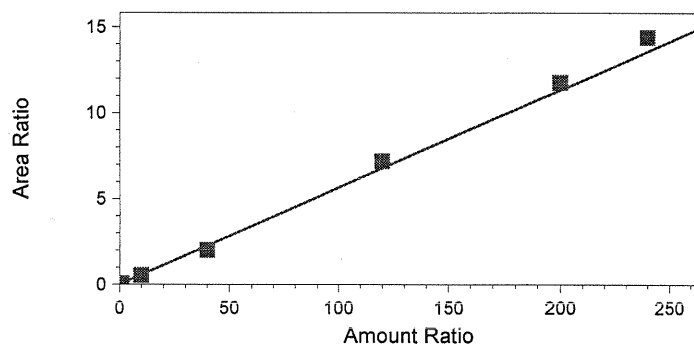
Calibration Report

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met
 Print Time: 8/23/2006 7:39:26 AM
 User: MCM
 Instrument: VCA (Offline)

Toluene (PID)
 Average RF: 0.0565440 RF StDev: 0.00394607 RF %RSD: 6.97876
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 0.0565440

Peak: Toluene -- ISTD -- PID



	Level 2	Level 3	Level 4	Level 5	Level 6
Amount Ratio	1	10	40	120	200
Area Ratio	0.0571076	0.535089	2.00499	7.1741	11.7591
RF	0.057107551	0.05350885156	0.050124826629	0.059784132951	0.0587954704
	0834547	60463	681	4262	442113
Last Area Ratio					
Residual	-0.00996663	0.536776	4.54101	-6.87635	-7.96361
Rep StDev					
Rep %RSD					
Rep 1 Area Ratio	0.0571076	0.535089	2.00499	7.1741	11.7591
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\08\VCA\data\082106VCA08210821_035.dat	E:\Public\2006\08\VCA\data\082106VCA08210821_036.dat	E:\Public\2006\08\VCA\data\082106VCA08210821_037.dat	E:\Public\2006\08\VCA\data\082106VCA08210821_038.dat	E:\Public\2006\08\VCA\data\082106VCA08210821_039.dat
Rep 1 Sample ID	BTEX 1.0	BTEX 10	BTEX 40	BTEX 120	BTEX 200
Rep 1 Calib. Time	8/22/2006 8:03:59 PM	8/22/2006 8:04:04 PM	8/22/2006 8:04:08 PM	8/22/2006 8:04:12 PM	8/22/2006 8:04:16 PM

	Level 7
Amount Ratio	240

Calibration Report

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Print Time: 8/23/2006 7:39:26 AM

User: MCM

Instrument: VCA (Offline)

Area Ratio	14.3864
RF	0.059943155
	9799909
Last Area Ratio	
Residual	-14.4277
Rep StDev	
Rep %RSD	
Rep 1 Area Ratio	14.3864
Rep 1 User	MCM
Rep 1 Data File	E:\Public\2006\08\VCA\data\082106\VCA08210821_040.dat
Rep 1 Sample ID	BTEX 240
Rep 1 Calib. Time	8/22/2006 8:04:20 PM

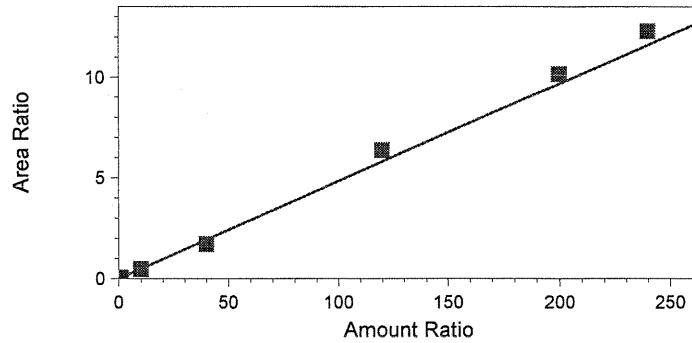
Calibration Report

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met
 Print Time: 8/23/2006 7:39:27 AM
 User: MCM
 Instrument: VCA (Offline)

Ethylbenzene (PID)
 Average RF: 0.0483178 RF StDev: 0.00399594 RF %RSD: 8.27013
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 0.0483178

Peak: Ethylbenzene -- ISTD -- PID



	Level 2	Level 3	Level 4	Level 5	Level 6
Amount Ratio	1	10	40	120	200
Area Ratio	0.0448387	0.473808	1.7104	6.35822	10.1487
RF	0.044838695	0.04738084430	0.042760055478	0.052985141424	0.0507437040
	4411051	32229	5021	991	9234
Last Area Ratio					
Residual	0.0720049	0.193919	4.601	-11.5916	-10.0414
Rep StDev					
Rep %RSD					
Rep 1 Area Ratio	0.0448387	0.473808	1.7104	6.35822	10.1487
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\08\VCA\data\082106\VC A08210821_035.dat	E:\Public\2006\08\VCA\data\082106\VCA0821_0821_036.dat	E:\Public\2006\08\VCA\data\082106\VCA0821_106\VCA0821_821_037.dat	E:\Public\2006\08\VCA\data\082106\VCA0821_106\VCA0821_821_038.dat	E:\Public\2006\08\VCA\data\082106\VCA08210821_039.dat
Rep 1 Sample ID	BTEX 1.0	BTEX 10	BTEX 40	BTEX 120	BTEX 200
Rep 1 Calib. Time	8/22/2006 8:03:59 PM	8/22/2006 8:04:04 PM	8/22/2006 8:04:08 PM	8/22/2006 8:04:12 PM	8/22/2006 8:04:16 PM

	Level 7
Amount Ratio	240

Calibration Report

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met
Print Time: 8/23/2006 7:39:27 AM
User: MCM
Instrument: VCA (Offline)

Area Ratio	12.2876
RF	0.051198461
	4218584
Last Area Ratio	
Residual	-14.3085
Rep StDev	
Rep %RSD	
Rep 1 Area Ratio	12.2876
Rep 1 User	MCM
Rep 1 Data File	E:\Public\2006\08\VCA\data\082106\VCA08210821_040.dat
Rep 1 Sample ID	BTEX 240
Rep 1 Calib. Time	8/22/2006 8:04:20 PM

Calibration Report

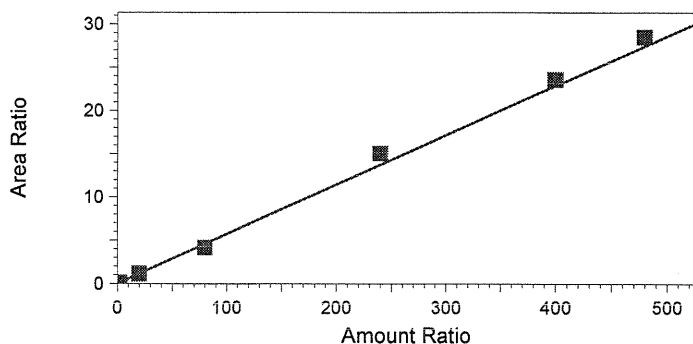
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 User: MCM
 Instrument: VCA (Offline)

P & M -Xylene (PID)

Average RF: 0.0571522 RF StDev: 0.00407644 RF %RSD: 7.13259
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 0.0571522

Peak: P & M -Xylene -- ISTD -- PID



	Level 2	Level 3	Level 4	Level 5	Level 6
Amount Ratio	2	20	80	240	400
Area Ratio	0.106536	1.1429	4.13084	15.0222	23.5674
RF	0.053268017	0.05714480254	0.051635460009	0.062592493137	0.0589185466
	1234388	19882	2464	6059	946485
Last Area Ratio					
Residual	0.135926	0.00260482	7.72223	-22.8453	-12.3621
Rep StDev					
Rep %RSD					
Rep 1 Area Ratio	0.106536	1.1429	4.13084	15.0222	23.5674
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\08\VCA\data\082106\VCA08210821_035.dat	E:\Public\2006\08\VCA\data\082106\VCA0821_0821_036.dat	E:\Public\2006\08\VCA\data\082106\VCA0821_0821_037.dat	E:\Public\2006\08\VCA\data\082106\VCA0821_0821_038.dat	E:\Public\2006\08\VCA\data\082106\VCA08210821_039.dat
Rep 1 Sample ID	BTEX 1.0	BTEX 10	BTEX 40	BTEX 120	BTEX 200
Rep 1 Calib. Time	8/22/2006 8:03:59 PM	8/22/2006 8:04:04 PM	8/22/2006 8:04:08 PM	8/22/2006 8:04:12 PM	8/22/2006 8:04:16 PM

	Level 7
Amount Ratio	480

Calibration Report

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met
Print Time: 8/23/2006 7:39:28 AM
User: MCM
Instrument: VCA (Offline)

Area Ratio	28.49
RF	0.059354157
	1926633
Last Area Ratio	
Residual	-18.493
Rep StDev	
Rep %RSD	
Rep 1 Area Ratio	28.49
Rep 1 User	MCM
Rep 1 Data File	E:\Public\2006\08\VCA\data\082106\VC A08210821_0 40.dat
Rep 1 Sample ID	BTEX 240
Rep 1 Calib. Time	8/22/2006 8:04:20 PM

Calibration Report

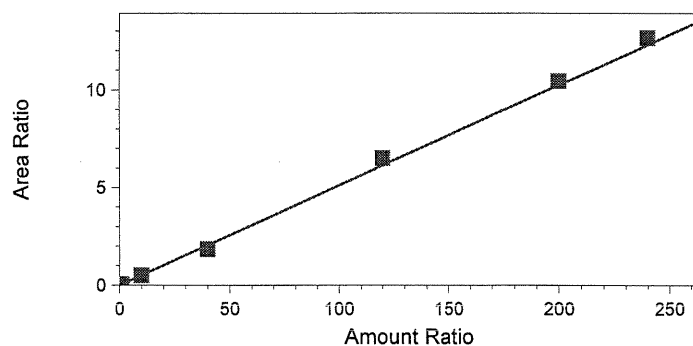
Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met
 Print Time: 8/23/2006 7:39:30 AM
 User: MCM
 Instrument: VCA (Offline)

O -Xylene (PID)

Average RF: 0.0511420 RF StDev: 0.00288757 RF %RSD: 5.64617
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 0.0511420

Peak: O -Xylene -- ISTD -- PID



	Level 2	Level 3	Level 4	Level 5	Level 6
Amount Ratio	1	10	40	120	200
Area Ratio	0.0522088	0.497458	1.83939	6.491	10.4407
RF	0.052208835	0.04974580118	0.045984743411	0.054091702470	0.0522033490
	3413655	02088	9279	4619	731025
Last Area Ratio					
Residual	-0.0208593	0.273013	4.03371	-6.92109	-4.15041
Rep StDev					
Rep %RSD					
Rep 1 Area Ratio	0.0522088	0.497458	1.83939	6.491	10.4407
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\08\VCA\data\082106\VC A08210821_035.dat	E:\Public\2006\08\VCA\data\082106\VCA0821_0821_036.dat	E:\Public\2006\08\VCA\data\082106\VCA0821_106\VCA08210821_821_037.dat	E:\Public\2006\08\VCA\data\082106\VCA0821_106\VCA08210821_821_038.dat	E:\Public\2006\08\VCA\data\082106\VCA08210821_08210821_039.dat
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Rep 1 Calib. Time	8/22/2006 8:03:59 PM	8/22/2006 8:04:04 PM	8/22/2006 8:04:08 PM	8/22/2006 8:04:12 PM	8/22/2006 8:04:16 PM

	Level 7
Amount Ratio	240

Calibration Report

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met
Print Time: 8/23/2006 7:39:30 AM
User: MCM
Instrument: VCA (Offline)

Area Ratio	12.6283
RF	0.052617856
	6014855
Last Area Ratio	
Residual	-6.92569
Rep StDev	
Rep %RSD	
Rep 1 Area Ratio	12.6283
Rep 1 User	MCM
Rep 1 Data File	E:\Public\2006\08\VCA\data\082106\VC A08210821_0 40.dat
Rep 1 Sample ID	BTEX 240
Rep 1 Calib. Time	8/22/2006 8:04:20 PM

Calibration Report

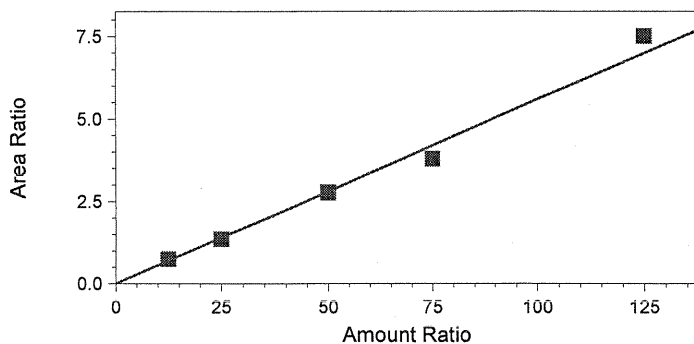
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 User: MCM
 Instrument: VCA (Offline)

4 - Bfb (PID)

Average RF: 0.0559058 RF StDev: 0.00403520 RF %RSD: 7.21787
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 0.0559058

Peak: 4 - Bfb -- ISTD -- PID



	Level 3	Level 4	Level 5	Level 6	Level 7
Amount Ratio	12.5	25	50	75	125
Area Ratio	0.746391	1.34919	2.7679	3.78485	7.50341
RF	0.059711302	0.05396763754	0.055358037952	0.050464614667	0.0600272851
	7689514	04531	0229	133	296044
Last Area Ratio					
Residual	-0.85088	0.866698	0.489876	7.29955	-9.2153
Rep StDev					
Rep %RSD					
Rep 1 Area Ratio	0.746391	1.34919	2.7679	3.78485	7.50341
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\08\VCA\data\082106VCA08210821_036.dat	E:\Public\2006\08\VCA\data\082106VCA0821_0821_037.dat	E:\Public\2006\08\VCA\data\082106VCA0821_106VCA0821_821_038.dat	E:\Public\2006\08\VCA\data\082106VCA0821_106VCA0821_821_039.dat	E:\Public\2006\08\VCA\data\082106VCA08210821_040.dat
Rep 1 Sample ID	BTEX 10	BTEX 40	BTEX 120	BTEX 200	BTEX 240
Rep 1 Calib. Time	8/22/2006 8:04:04 PM	8/22/2006 8:04:08 PM	8/22/2006 8:04:12 PM	8/22/2006 8:04:16 PM	8/22/2006 8:04:20 PM

Calibration Report

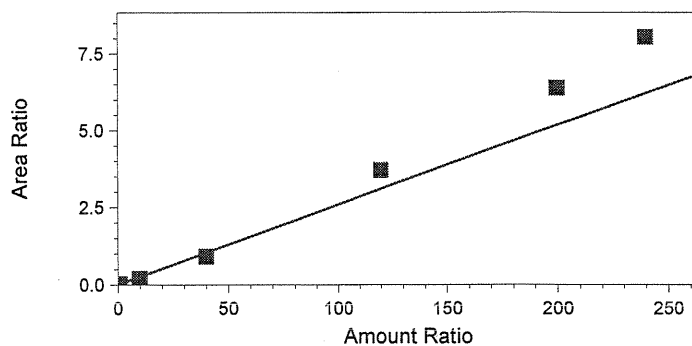
Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met
 Print Time: 8/23/2006 7:39:33 AM
 User: MCM
 Instrument: VCA (Offline)

Naphthalene (PID)

Average RF: 0.0258802 RF StDev: 0.00714851 RF %RSD: 27.6215
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 0.0258802

Peak: Naphthalene -- ISTD -- PID



	Level 2	Level 3	Level 4	Level 5	Level 6
Amount Ratio	1	10	40	120	200
Area Ratio	0.0162408	0.200091	0.912252	3.70081	6.3802
RF	0.016240787	0.02000907852	0.022806287563	0.030840121136	0.0319010143
	3251247	92783	5691	1738	406786
Last Area Ratio					
Residual	0.372463	2.26858	4.751	-22.9979	-46.5283
Rep StDev					
Rep %RSD					
Rep 1 Area Ratio	0.0162408	0.200091	0.912252	3.70081	6.3802
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\08\VCA\data\082106VCA08210821_035.dat	E:\Public\2006\08\VCA\data\082106VCA08210821_036.dat	E:\Public\2006\08\VCA\data\082106VCA08210821_037.dat	E:\Public\2006\08\VCA\data\082106VCA08210821_038.dat	E:\Public\2006\08\VCA\data\082106VCA08210821_039.dat
Rep 1 Sample ID	BTEX 1.0	BTEX 10	BTEX 40	BTEX 120	BTEX 200
Rep 1 Calib. Time	8/22/2006 8:03:59 PM	8/22/2006 8:04:04 PM	8/22/2006 8:04:08 PM	8/22/2006 8:04:12 PM	8/22/2006 8:04:16 PM

	Level 7
Amount Ratio	240

Calibration Report

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Print Time: 8/23/2006 7:39:33 AM

User: MCM

Instrument: VCA (Offline)

Area Ratio	8.03615
RF	0.033483969
	9863574
Last Area Ratio	
Residual	-70.5134
Rep StDev	
Rep %RSD	
Rep 1 Area Ratio	8.03615
Rep 1 User	MCM
Rep 1 Data File	E:\Public\2006\08\VCA\dat a\082106\VC A08210821_0 40.dat
Rep 1 Sample ID	BTEX 240
Rep 1 Calib. Time	8/22/2006 8:04:20 PM

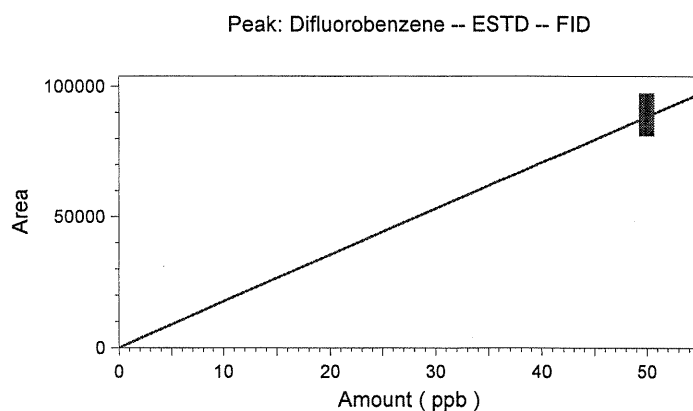
Calibration Report

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met
 Print Time: 8/23/2006 7:42:45 AM
 User: MCM
 Instrument: VCA (Offline)

Difluorobenzene (FID)

Average RF: 1769.19 RF StDev: 90.1671 RF %RSD: 5.09652
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 1769.19



	Level 2	Level 3	Level 4	Level 5	Level 6
Amount	50	50	50	50	50
Area	85209	84953	84061	88804	93209
RF	1704.18	1699.06	1681.22	1776.08	1864.18
Last Area					
Residual	1.83728	1.98198	2.48617	-0.194722	-2.68456
Rep StDev					
Rep %RSD					
Rep 1 Area	85209	84953	84061	88804	93209
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\08\VCA\data\082106\VCA08210821_035.dat	E:\Public\2006\08\VCA\data\082106\VCA08210821_036.dat	E:\Public\2006\08\VCA\data\082106\VCA08210821_037.dat	E:\Public\2006\08\VCA\data\082106\VCA08210821_038.dat	E:\Public\2006\08\VCA\data\082106\VCA08210821_039.dat
Rep 1 Sample ID	BTEX 1.0	BTEX 10	BTEX 40	BTEX 120	BTEX 200
Rep 1 Calib. Time	8/22/2006 8:03:59 PM	8/22/2006 8:04:04 PM	8/22/2006 8:04:08 PM	8/22/2006 8:04:12 PM	8/22/2006 8:04:16 PM
	Level 7				
Amount	50				
Area	94521				

Calibration Report

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met
Print Time: 8/23/2006 7:42:45 AM
User: MCM
Instrument: VCA (Offline)

RF	1890.42
Last Area	
Residual	-3.42614
Rep StDev	
Rep %RSD	
Rep 1 Area	94521
Rep 1 User	MCM
Rep 1 Data File	E:\Public\2006\08\VCA\data\082106\VC A08210821_0 40.dat
Rep 1 Sample ID	BTEX 240
Rep 1 Calib. Time	8/22/2006 8:04:20 PM

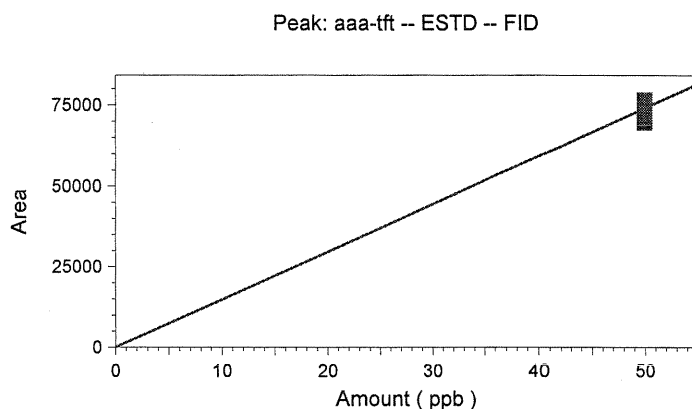
Calibration Report

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met
 Print Time: 8/23/2006 7:42:46 AM
 User: MCM
 Instrument: VCA (Offline)

aaa-tft (FID)

Average RF: 1480.17 RF StDev: 50.3769 RF %RSD: 3.40345
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 1480.17



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	50	50	50	50	50
Area	76444	71972	73471	69620	74559
RF	1528.88	1439.44	1469.42	1392.4	1491.18
Last Area					
Residual	-1.64547	1.37581	0.363086	2.96482	-0.371965
Rep StDev					
Rep %RSD					
Rep 1 Area	76444	71972	73471	69620	74559
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\08\VCA\data\082106\VCA08210821_034.dat	E:\Public\2006\08\VCA\data\082106\VCA08210821_035.dat	E:\Public\2006\08\VCA\data\082106\VCA08210821_036.dat	E:\Public\2006\08\VCA\data\082106\VCA08210821_037.dat	E:\Public\2006\08\VCA\data\082106\VCA08210821_038.dat
Rep 1 Sample ID	BTEX .5	BTEX 1.0	BTEX 10	BTEX 40	BTEX 120
Rep 1 Calib. Time	8/22/2006 8:03:56 PM	8/22/2006 8:03:59 PM	8/22/2006 8:04:04 PM	8/22/2006 8:04:08 PM	8/22/2006 8:04:12 PM
	Level 6	Level 7			
Amount	50	50			
Area	76338	75655			

Calibration Report

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met
Print Time: 8/23/2006 7:42:46 AM
User: MCM
Instrument: VCA (Offline)

RF	1526.76	1513.1
Last Area		
Residual	-1.57386	-1.11242
Rep StDev		
Rep %RSD		
Rep 1 Area	76338	75655
Rep 1 User	MCM	MCM
Rep 1 Data File	E:\Public\2006\08\VCA\data\082106\VC A08210821_039.dat	E:\Public\2006\08\VCA\data\082106\VCA08210821_040.dat
Rep 1 Sample ID	BTEX 200	BTEX 240
Rep 1 Calib. Time	8/22/2006 8:04:16 PM	8/22/2006 8:04:20 PM

Calibration Report

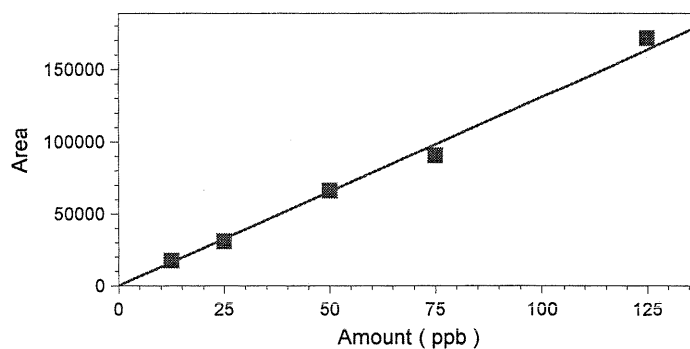
Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met
 Print Time: 8/23/2006 7:42:47 AM
 User: MCM
 Instrument: VCA (Offline)

4-Bromofluorobenzene <Surr> (FID)

Average RF: 1307.59 RF StDev: 85.8895 RF %RSD: 6.56854
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 1307.59

Peak: 4-Bromofluorobenzene <Surr> -- ESTD -- FID



	Level 3	Level 4	Level 5	Level 6	Level 7
Amount	12.5	25	50	75	125
Area	17564	30858	66075	90429	171410
RF	1405.12	1234.32	1321.5	1205.72	1371.28
Last Area					
Residual	-0.932366	1.40082	-0.531972	5.8429	-6.08869
Rep StDev					
Rep %RSD					
Rep 1 Area	17564	30858	66075	90429	171410
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\08\VCA\data\082106\VCA08210821_036.dat	E:\Public\2006\08\VCA\data\082106\VCA08210821_037.dat	E:\Public\2006\08\VCA\data\082106\VCA08210821_038.dat	E:\Public\2006\08\VCA\data\082106\VCA08210821_039.dat	E:\Public\2006\08\VCA\data\082106\VCA08210821_040.dat
Rep 1 Sample ID	BTEX 10	BTEX 40	BTEX 120	BTEX 200	BTEX 240
Rep 1 Calib. Time	8/22/2006 8:04:04 PM	8/22/2006 8:04:08 PM	8/22/2006 8:04:12 PM	8/22/2006 8:04:16 PM	8/22/2006 8:04:20 PM

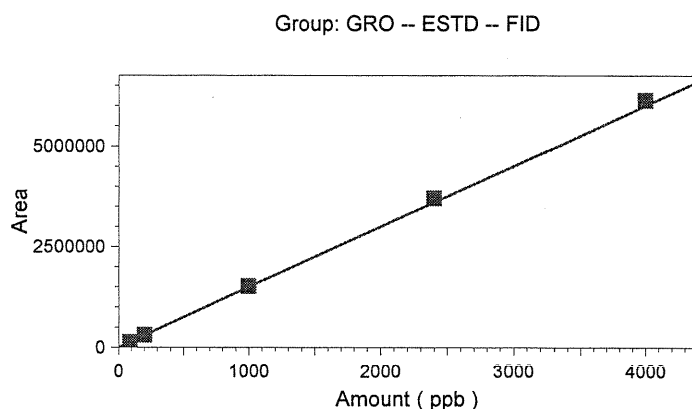
Calibration Report

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met
 Print Time: 8/23/2006 7:42:59 AM
 User: MCM
 Instrument: VCA (Offline)

GRO (FID)

Average RF: 1500.51 RF StDev: 76.2563 RF %RSD: 5.08202
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 1500.51



	Level 8	Level 9	Level 10	Level 11	Level 12
Amount	90	200	1000	2400	4000
Area	122872	308094	1518659	3707022	6134334
RF	1365.244444	1540.47	1518.659	1544.5925	1533.5835
	44444				
Last Area					
Residual	8.11317	-5.3262	-12.0953	-70.5082	-88.1663
Rep StDev					
Rep %RSD					
Rep 1 Area	122872	308094	1518659	3707022	6134334
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\08\VCA\data\082106\VCA08210821_030.dat	E:\Public\2006\08\VCA\data\082106\VCA0821_016.dat	E:\Public\2006\08\VCA\data\082106\VCA0821_017.dat	E:\Public\2006\08\VCA\data\082106\VCA0821_018.dat	E:\Public\2006\08\VCA\data\082106\VCA08210821_019.dat
Rep 1 Sample ID	GRO 90	GRO 200	GRO 1000	GRO 2400	GRO 4000
Rep 1 Calib. Time	8/22/2006 1:24:23 PM	8/22/2006 10:27:25 AM	8/22/2006 10:27:29 AM	8/22/2006 10:27:34 AM	8/22/2006 10:27:38 AM

Calibration Report

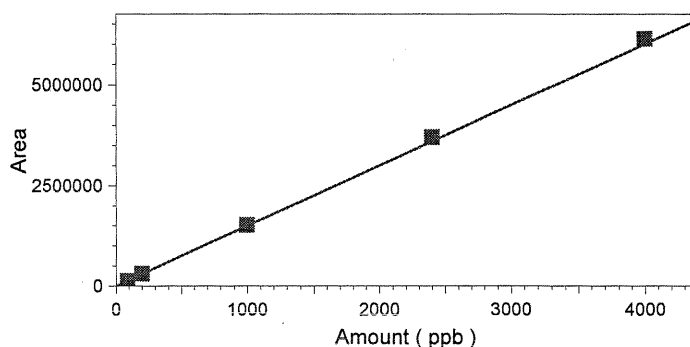
Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met
 Print Time: 8/23/2006 7:43:01 AM
 User: MCM
 Instrument: VCA (Offline)

GRO/Surr (FID)

Average RF: 1500.51 RF StDev: 76.2563 RF %RSD: 5.08202
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 1500.51

Group: GRO/Surr -- ESTD -- FID



	Level 8	Level 9	Level 10	Level 11	Level 12
Amount	90	200	1000	2400	4000
Area	122872	308094	1518659	3707022	6134334
RF	1365.244444 44444	1540.47	1518.659	1544.5925	1533.5835
Last Area					
Residual	8.11317	-5.3262	-12.0953	-70.5082	-88.1663
Rep StDev					
Rep %RSD					
Rep 1 Area	122872	308094	1518659	3707022	6134334
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\08\VCA\data\082106\VC A08210821_030.dat	E:\Public\2006\08\VCA\data\082106\VCA0821 0821_016.dat	E:\Public\2006\08\VCA\data\082106\VCA08210 821_017.dat	E:\Public\2006\08\VCA\data\082106\VCA08210 821_018.dat	E:\Public\2006\08\VCA\data\082106\VCA08210821_019. dat
Rep 1 Sample ID	GRO 90	GRO 200	GRO 1000	GRO 2400	GRO 4000
Rep 1 Calib. Time	8/22/2006 1:24:23 PM	8/22/2006 10:27:25 AM	8/22/2006 10:27:29 AM	8/22/2006 10:27:34 AM	8/22/2006 10:27:38 AM

Instrument: VCA Method: 101/ BTEX Run Date: 8/21/06 Calibration Date: 8/21/06

Operator: MM Processed By: MM Posted By: X Analytical Batch: ✓

Vial	Sample Name	Dilution	Notes: Odor, Color, Dilution Formula	pH	Rerun
1	IB				
2	ZB				
3	C6-C10				
4	ZD		CCU2 BFB		
5	ZB BTEX .5	.5/100	Low		✓
6	1.0	1.0/100	Low		✓
7	BTEX 10	.5/5		1.25	
8	40	2/50 2/5		2.5	
9	120	6/5		5	
10	Emp 1200 wa	10/5	wa 8/21	7	
11	200 240	10/5		7	
12	240	12/5		22.5	
13	DW				
14	BLK				
15	GRO 90	4.5/100	Low		Wing dil
16	200	.5/5			
1	1000	2.5/5			
2	2400	60/5			
3	4000	100/5			
4	BLK				
5	BLK				
6	ZCV BTEX				
7	ZCV GRO				
8					
9					
10					
1	ZB				
2	ZD				
3	C6-C10				
4	BLK				
5	BTEX .5	.5/10	NU		
6	1.0	1/10	NU		
7	GRO 90	4.5/10			
8	ZCV BTEX				
9	ZCV GRO				

Standards: IS VWB-63-3 CCU2 VWB-92-1 LCS-GRO VWB-53-4
 Combo. Sum VWB-78-1 CCV VWB-30-3 BFB VWB-61-1
 NAS VWB-12-5 LCS-DTEX VWB-74-5 DFB VWB-70-2

SGS Environmental Services Inc.

Sample Name: IB

Date/Time: 8/21/2006 10:29:11 AM

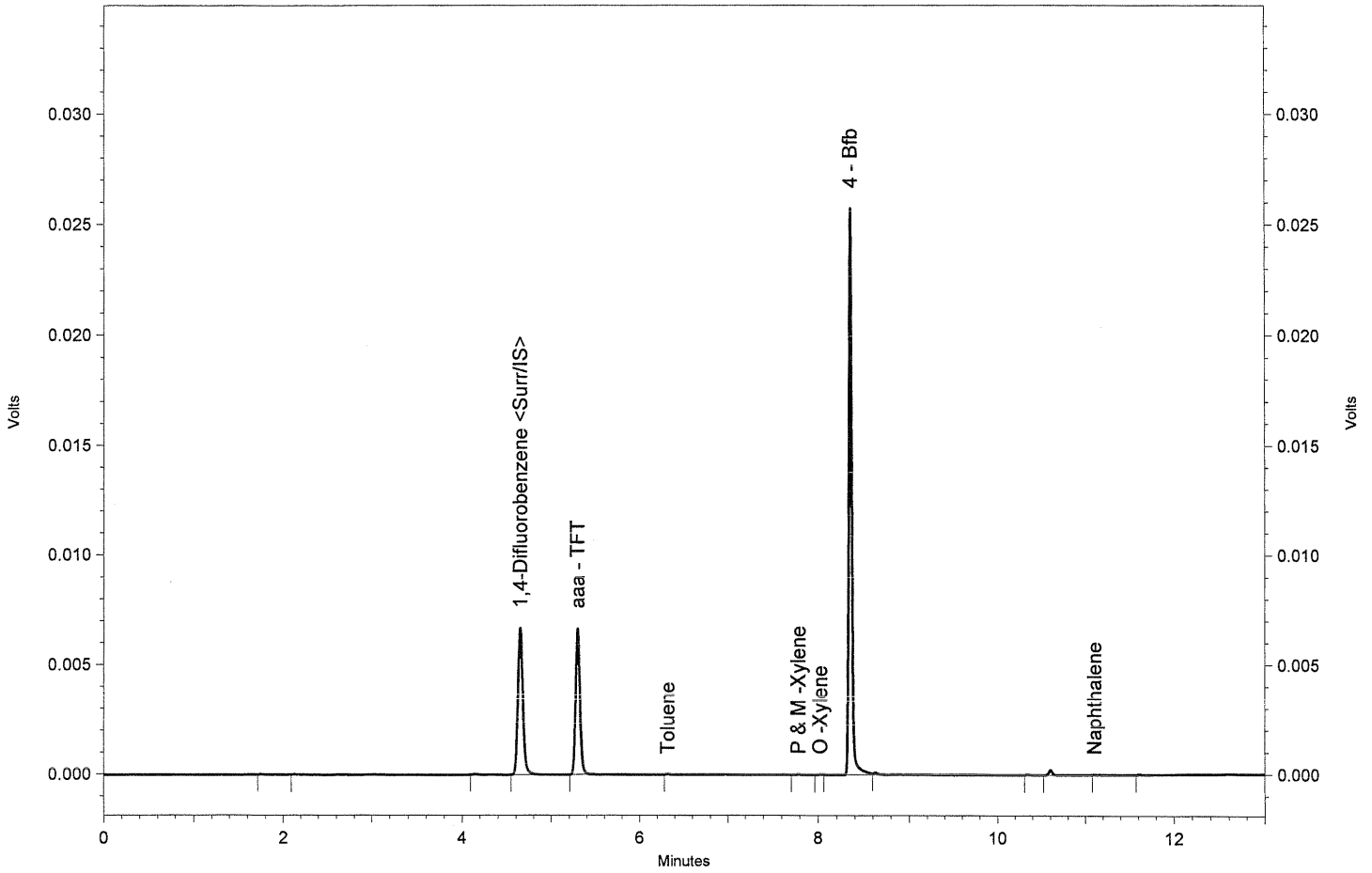
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_001.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
1,4-Difluorobenzene <Surr/IS>	4.650	26253	48.276	ppb	BB
aaa - TFT	5.297	23641	0.000	ppb	BB
Toluene	6.317	86	0.064 LC	ppb	BB
P & M -Xylene	7.787	83	0.061 LC	ppb	SB
O -Xylene	8.023	74	0.061 LC	ppb	BS
4 - Bfb	8.353	59976	45.379	ppb	SV
Naphthalene	11.103	24	0.039 LC	ppb	BS

SGS Environmental Services Inc.

Sample Name: IB

Date/Time: 8/21/2006 10:29:11 AM

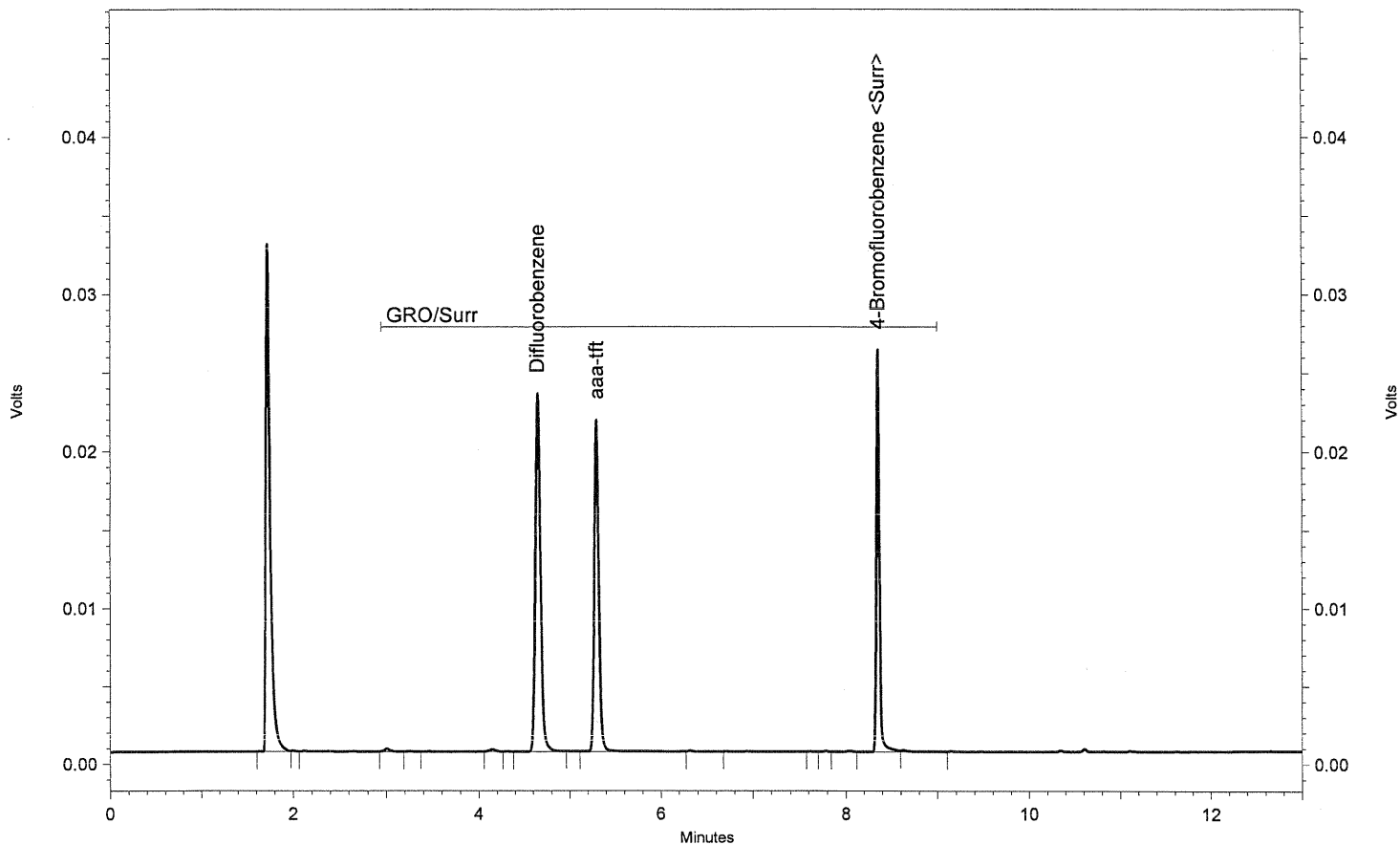
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_001.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.650	90514	51.161	ppb	LL
aaa-tft	5.300	76245	51.511	ppb	LL
4-Bromofluorobenzene <Surr>	8.353	60419	46.206	ppb	LL
GRO		4522	3.014 LC	ppb	
GRO/Surr		231700	154.414	ppb	

SGS Environmental Services Inc.

Sample Name: IB

Date/Time: 8/21/2006 10:48:46 AM

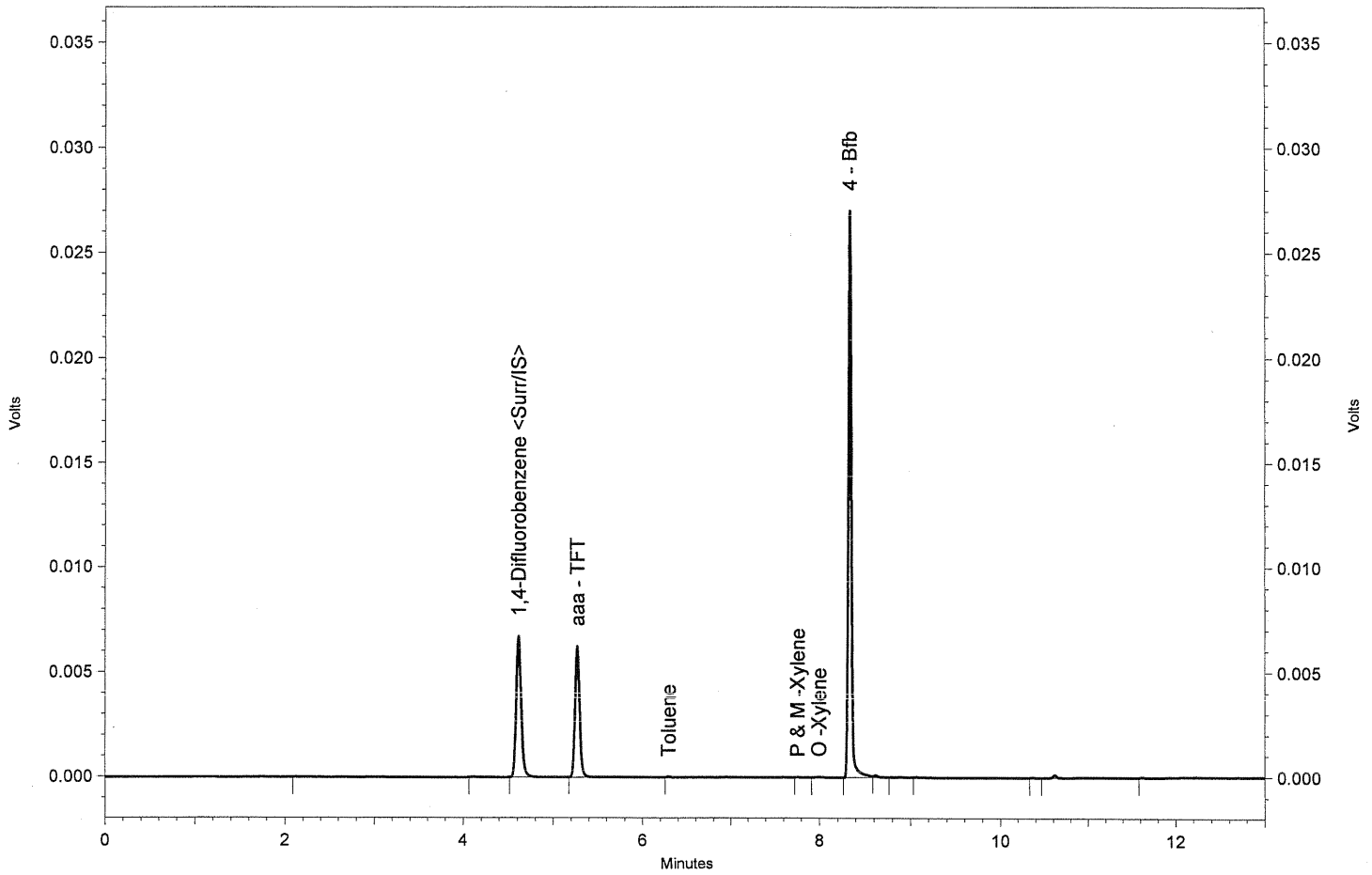
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_002.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
1,4-Difluorobenzene <Surr/IS>	4.617	26128	50.753	ppb	BB
aaa - TFT	5.270	22380	0.000	ppb	BB
Toluene	6.293	89	0.070 LC	ppb	BB
P & M -Xylene	7.763	53	0.041 LC	ppb	BB
O -Xylene	8.000	123	0.107 LC	ppb	BS
4 - Bfb	8.337	64597	51.629	ppb	BV

SGS Environmental Services Inc.

Sample Name: IB

Date/Time: 8/21/2006 10:48:46 AM

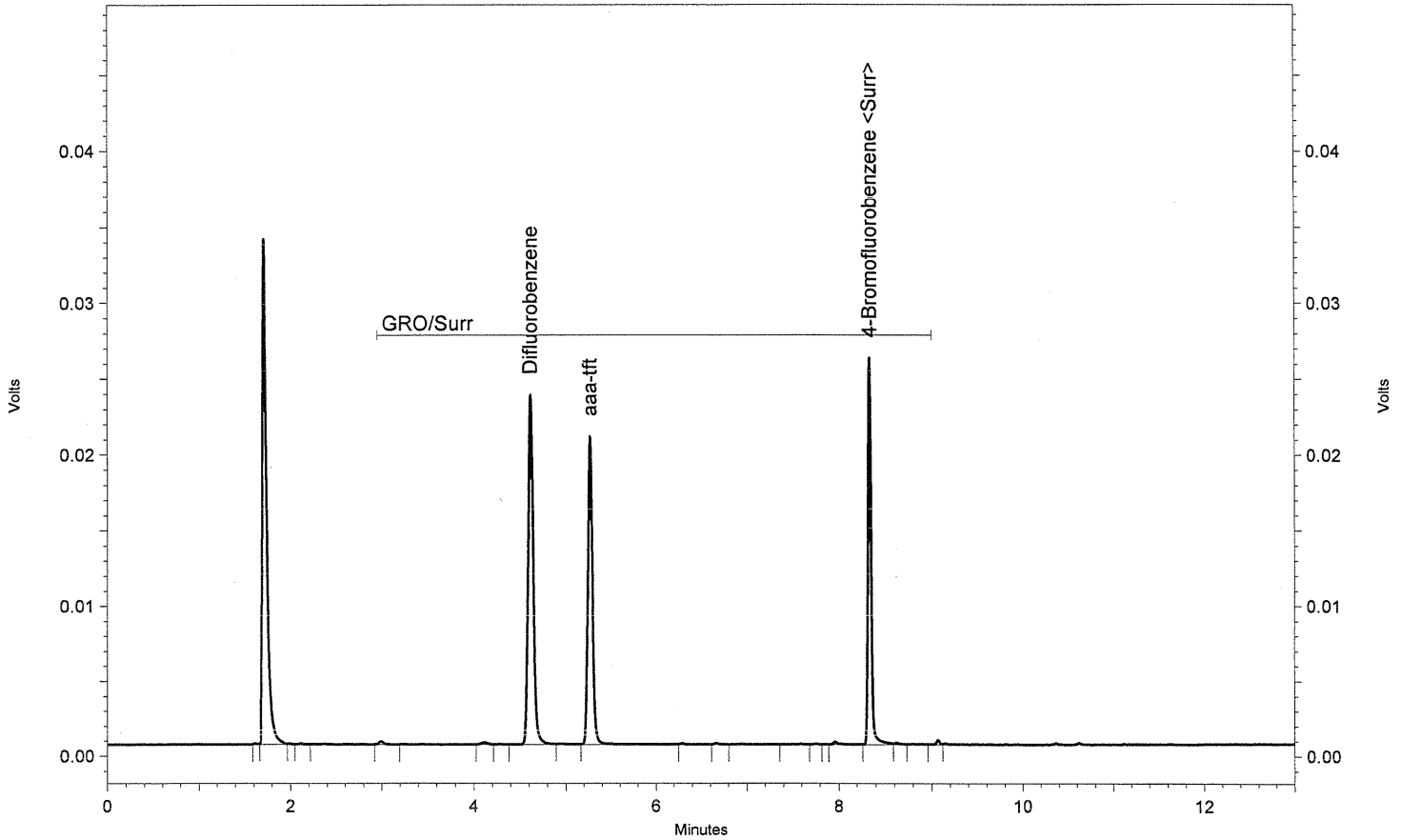
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_002.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.617	90662	51.245	ppb	LL
aaa-tft	5.270	74089	50.054	ppb	LL
4-Bromofluorobenzene <Surr>	8.337	61522	47.050	ppb	LL
GRO		6458	4.304	LC ppb	
GRO/Surr		232731	155.101	ppb	

SGS Environmental Services Inc.

Sample Name: C6-C10

Date/Time: 8/21/2006 11:08:28 AM

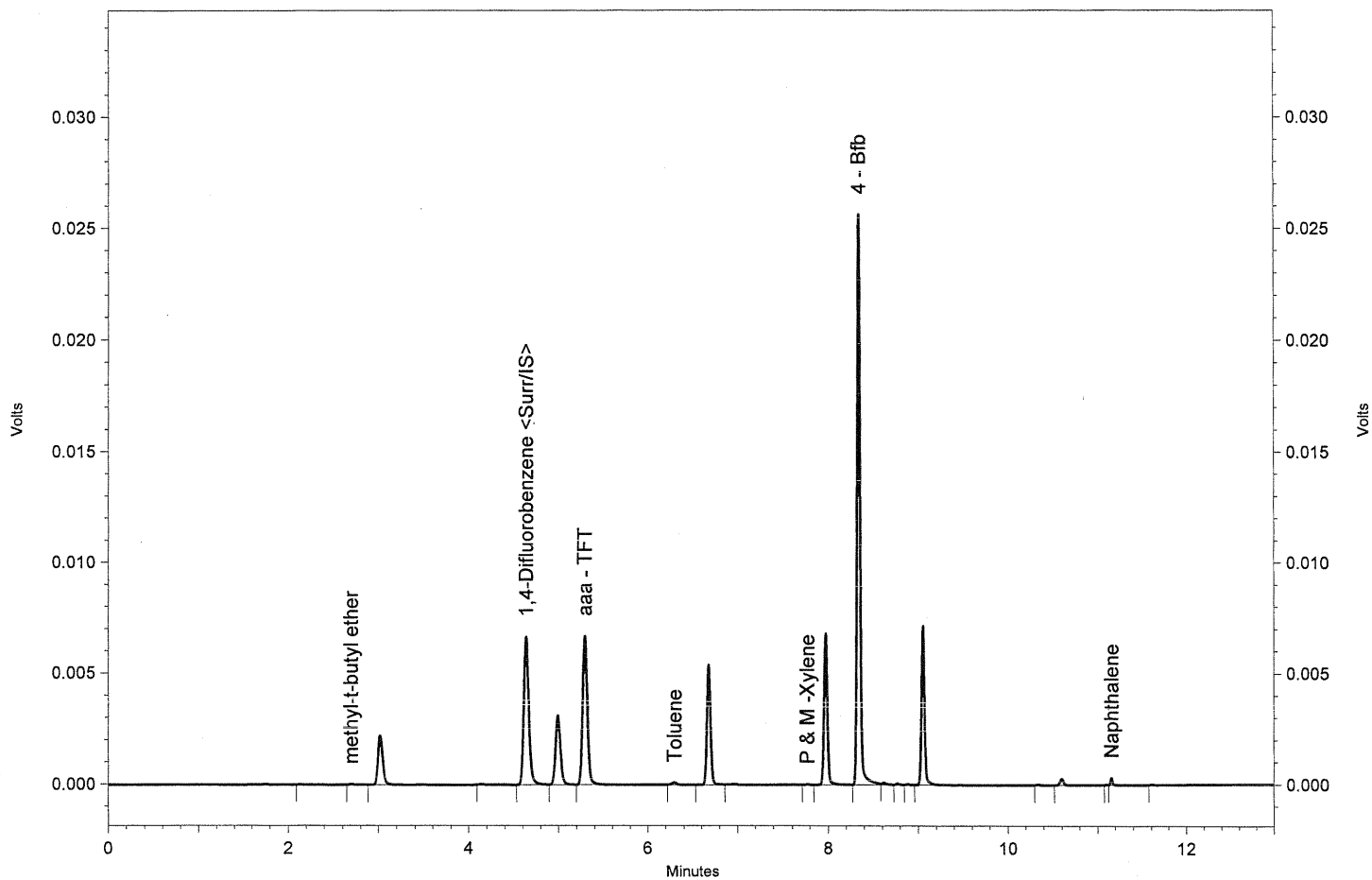
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_003.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.693	103	0.194 LC	ppb	BB
1,4-Difluorobenzene <Surr/IS>	4.640	26595	48.264	ppb	BV
aaa - TFT	5.297	23955	0.000	ppb	VB
Toluene	6.297	386	0.285 LC	ppb	BB
P & M -Xylene	7.773	81	0.059 LC	ppb	SB
4 - Bfb	8.340	59505	44.432	ppb	BV
Naphthalene	11.157	536	0.865 LC	ppb	SB

SGS Environmental Services Inc.

Sample Name: C6-C10

Date/Time: 8/21/2006 11:08:28 AM

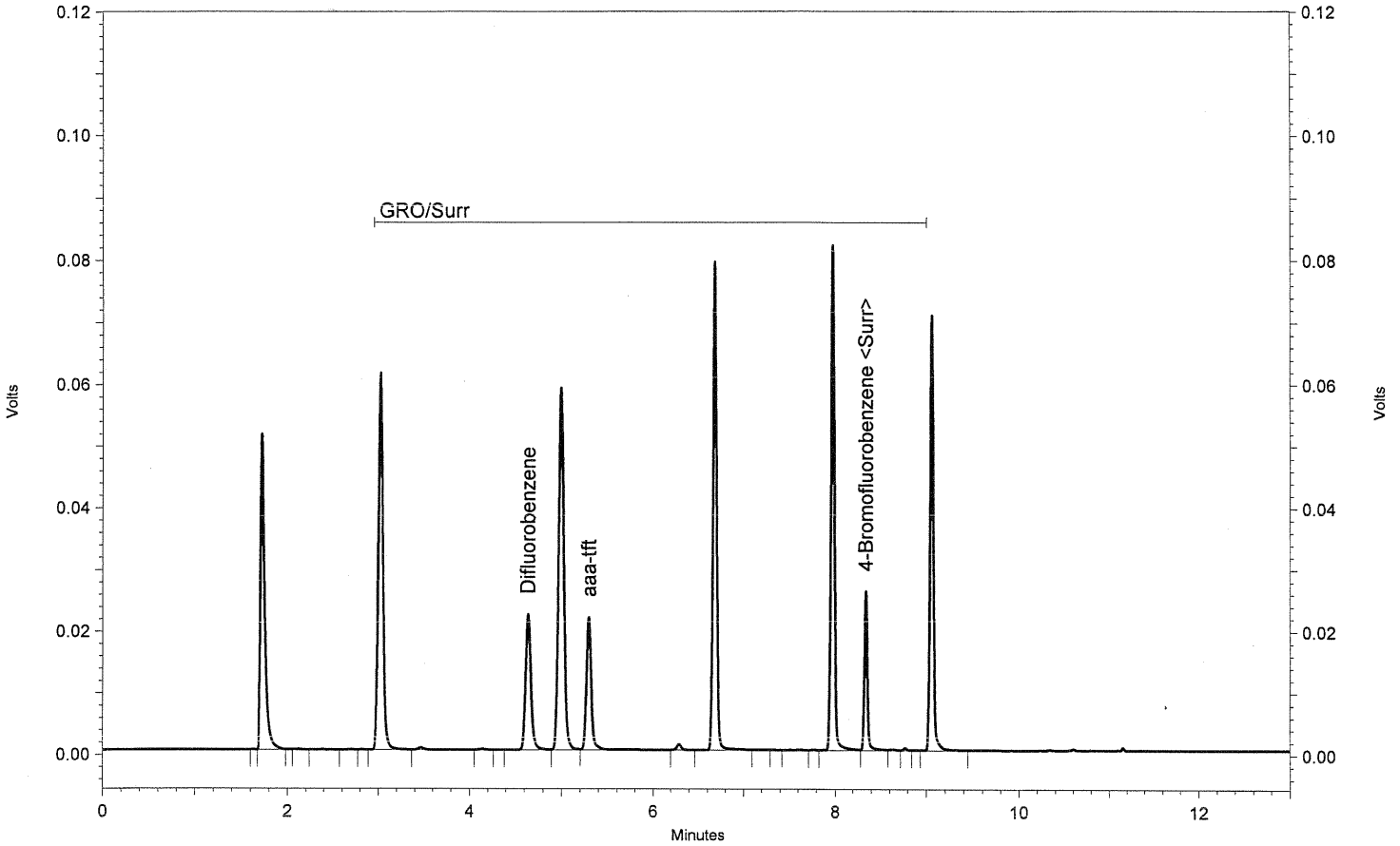
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_003.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.640	89035	50.325	ppb	LL
aaa-tft	5.297	79698	53.844	ppb	LL
4-Bromofluorobenzene <Surr>	8.340	61105	46.731	ppb	LL
GRO		899610	599.536	ppb	
GRO/Surr		1129448	752.709	ppb	

SGS Environmental Services Inc.

Sample Name: GRO 90

Date/Time: 8/21/2006 6:05:09 PM

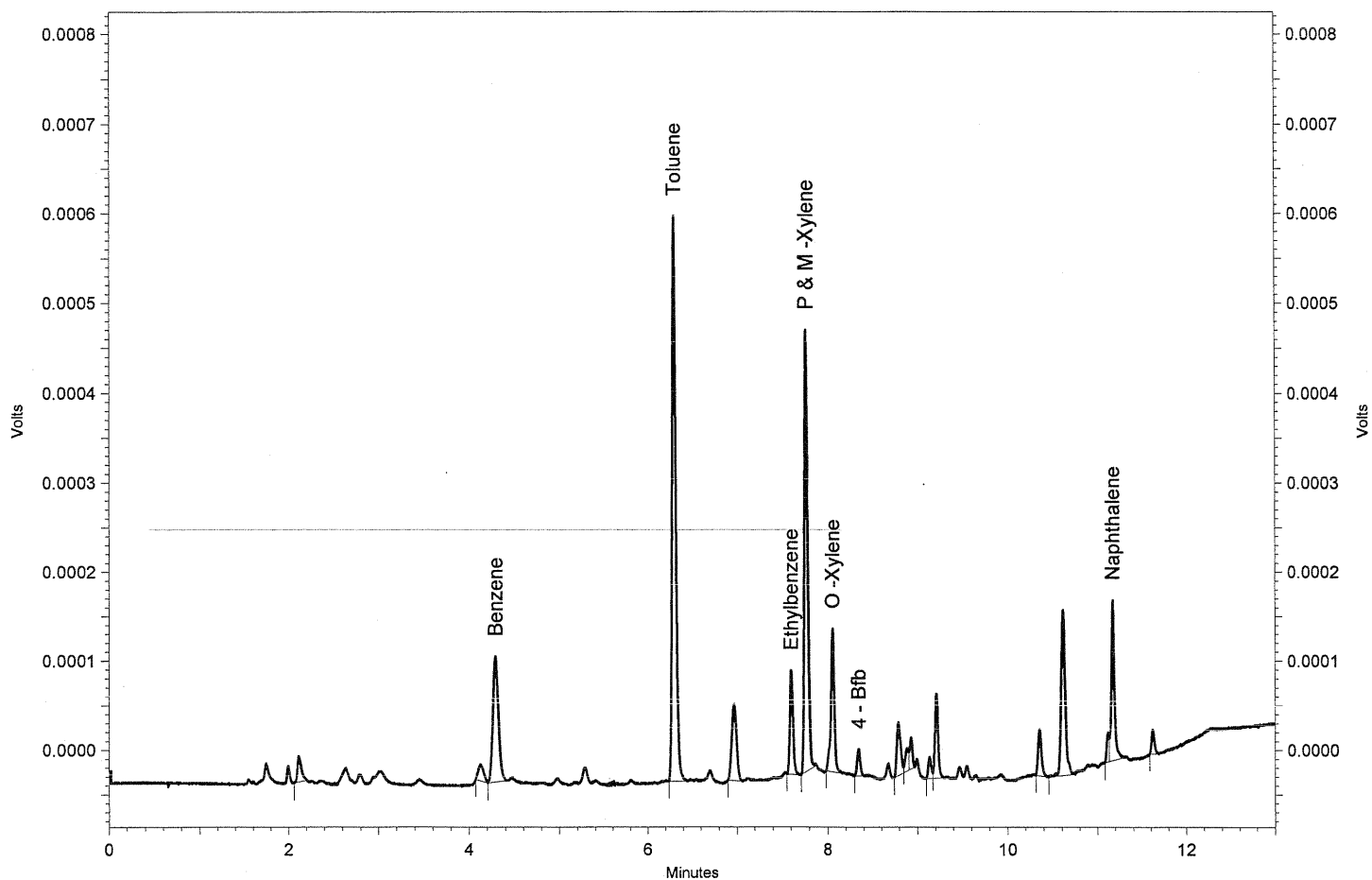
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_015.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.293	598	0.000 CAL	ppb	BB
Toluene	6.300	1795	0.000 CAL	ppb	BB
Ethylbenzene	7.603	295	0.000 CAL	ppb	BB
P & M -Xylene	7.770	1232	0.000 CAL	ppb	BB
O -Xylene	8.057	445	0.000 CAL	ppb	BB
4 - Bfb	8.347	75	0.000 CAL	ppb	BB
Naphthalene	11.173	438	0.000 CAL	ppb	SB

SGS Environmental Services Inc.

Sample Name: GRO 90

Date/Time: 8/21/2006 6:05:09 PM

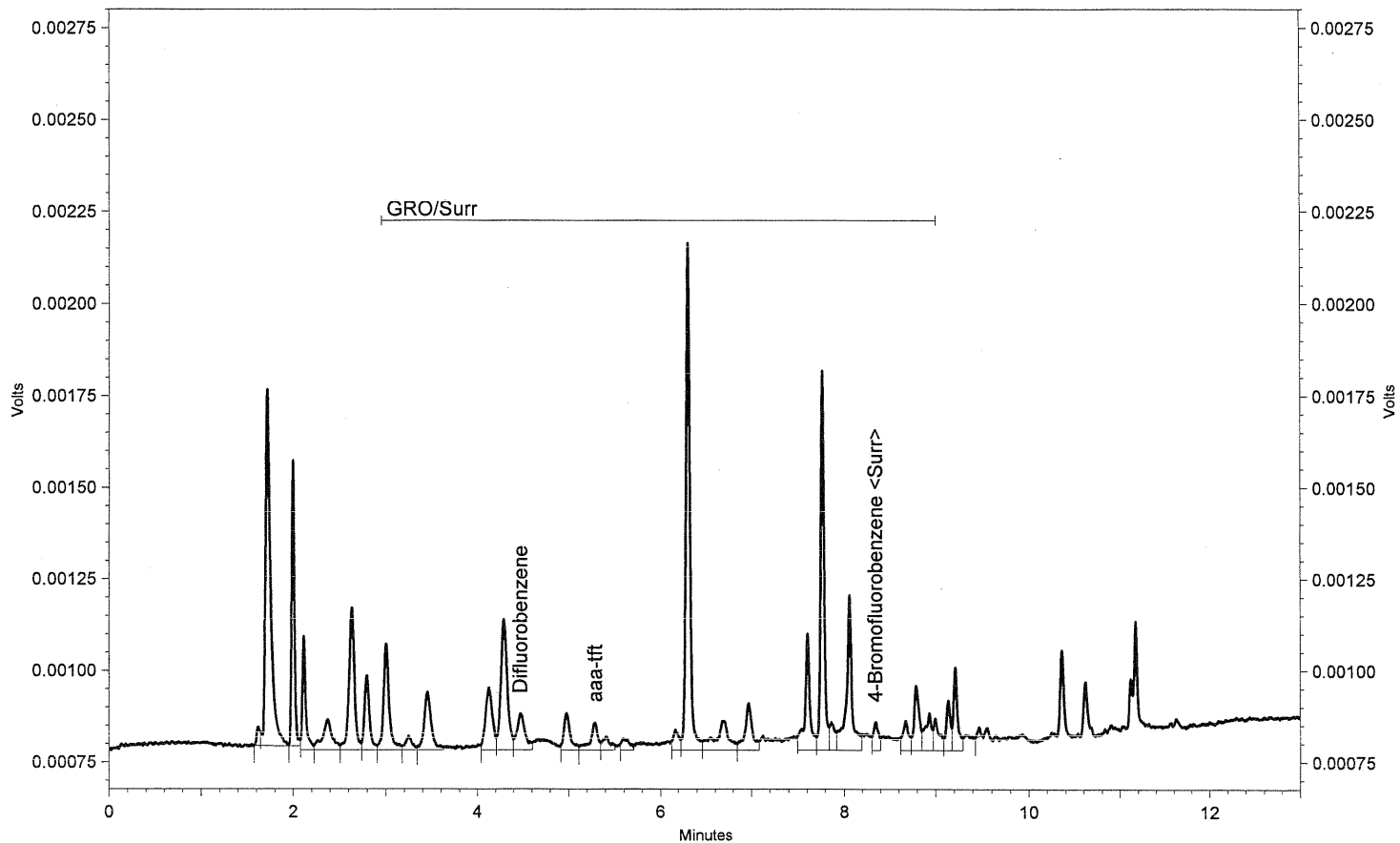
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_015.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.473	640	0.000 CAL	ppb	LL
aaa-tft	5.287	424	0.000 CAL	ppb	LL
4-Bromofluorobenzene <Surr>	8.343	307	0.000 CAL	ppb	LL
GRO		21541	90.000 CAL	ppb	
GRO/Surr		21541	90.000 CAL	ppb	

SGS Environmental Services Inc.

Sample Name: GRO 200

Date/Time: 8/21/2006 6:24:38 PM

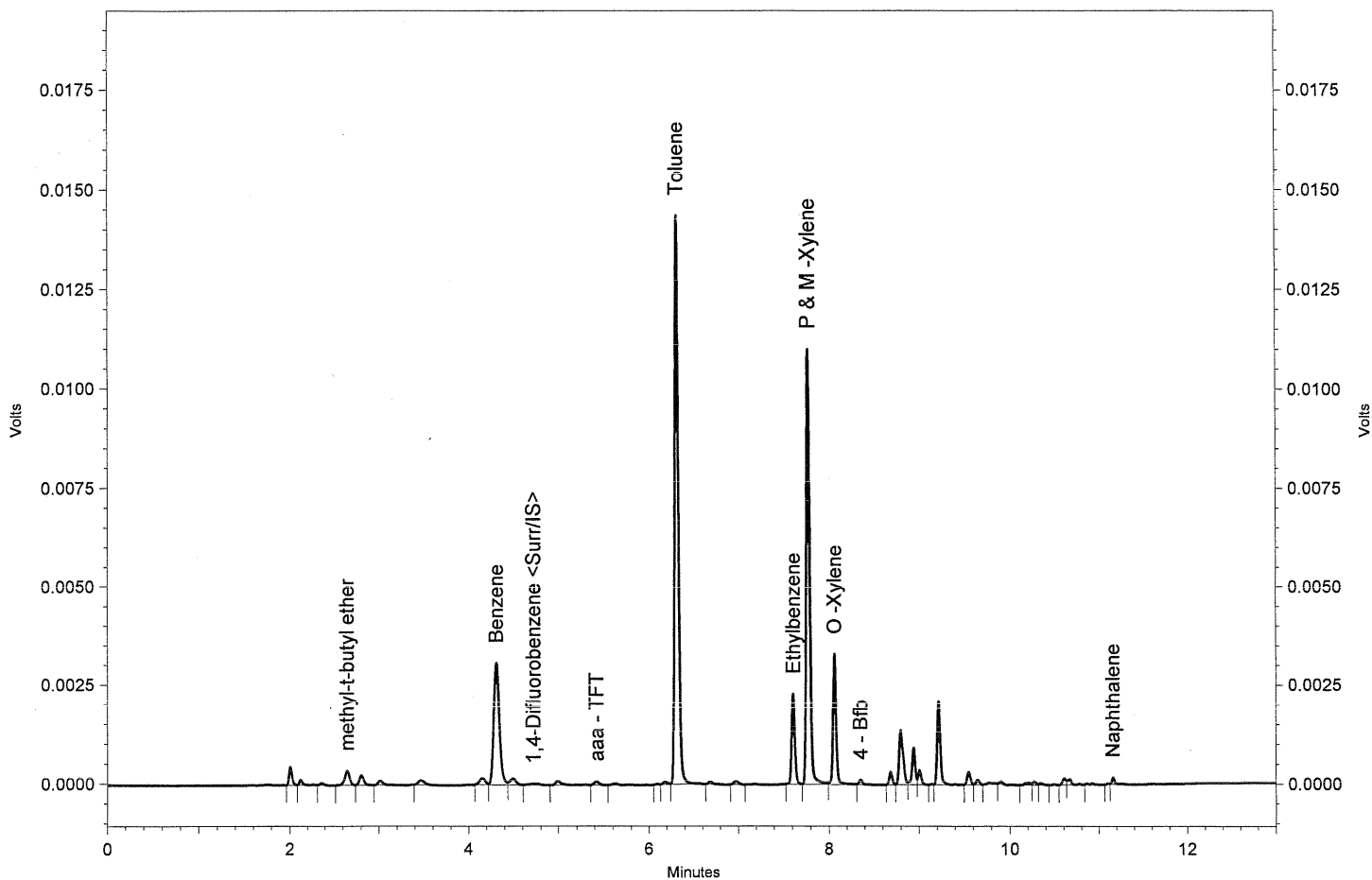
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_016.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.647	1356	0.000 CAL	ppb	BV
Benzene	4.310	13374	0.000 CAL	ppb	VV
1,4-Difluorobenzene <Surr/IS>	4.720	276	0.000 CAL	ppb	VB
aaa - TFT	5.420	339	0.000 CAL	ppb	BB
Toluene	6.313	40627	0.000 CAL	ppb	VB
Ethylbenzene	7.613	5669	0.000 CAL	ppb	BV
P & M -Xylene	7.777	27880	0.000 CAL	ppb	VV
O -Xylene	8.063	8317	0.000 CAL	ppb	VV
4 - Bfb	8.353	300	0.000 CAL	ppb	VB
Naphthalene	11.160	363	0.000 CAL	ppb	SB

SGS Environmental Services Inc.

Sample Name: GRO 200

Date/Time: 8/21/2006 6:24:38 PM

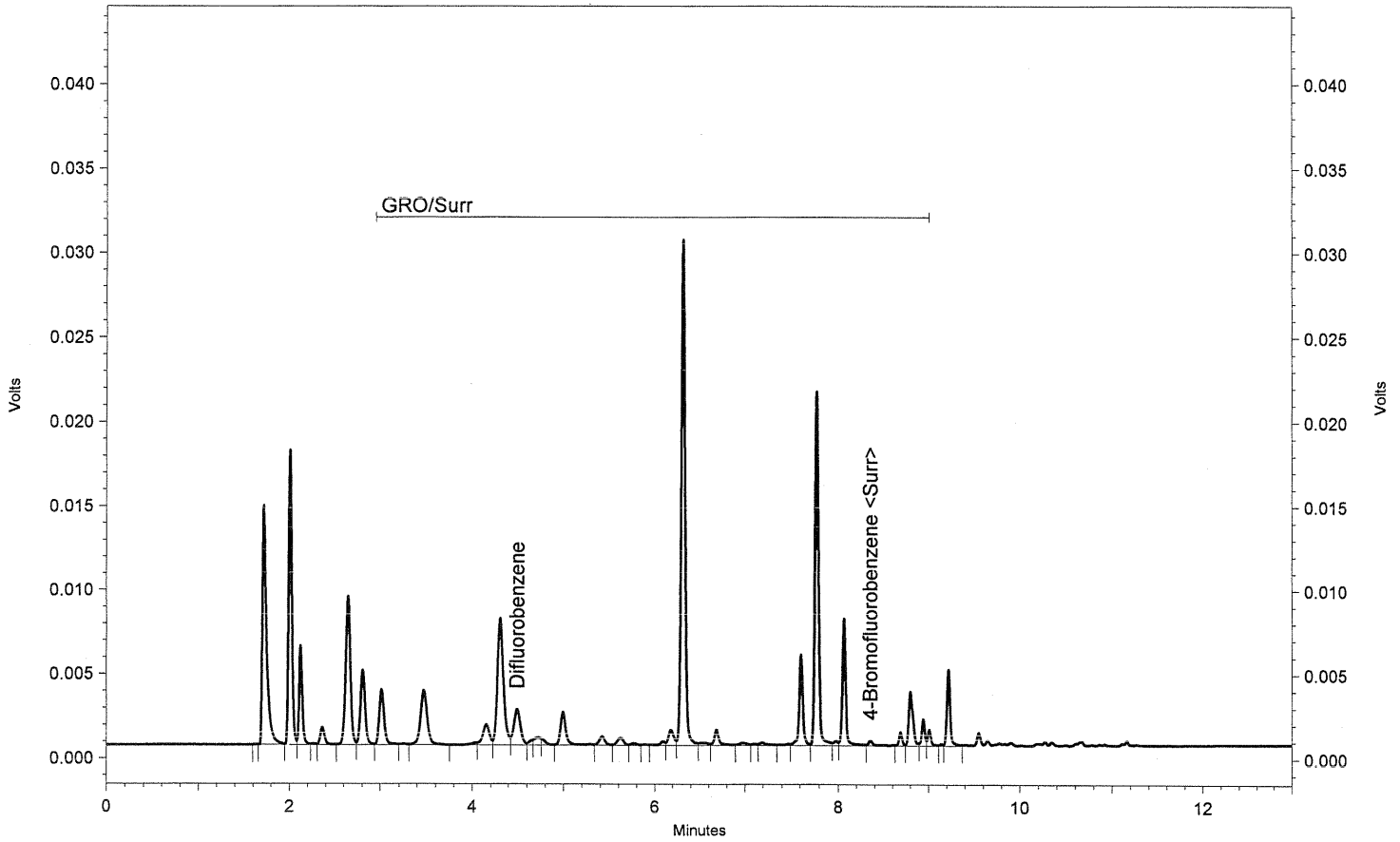
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_016.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.497	10752	0.000 CAL	ppb	LL
4-Bromofluorobenzene <Surr>	8.353	1274	0.000 CAL	ppb	LL
GRO		308094	200.000 CAL	ppb	
GRO/Surr		308094	200.000 CAL	ppb	

SGS Environmental Services Inc.

Sample Name: GRO 1000

Date/Time: 8/21/2006 6:44:06 PM

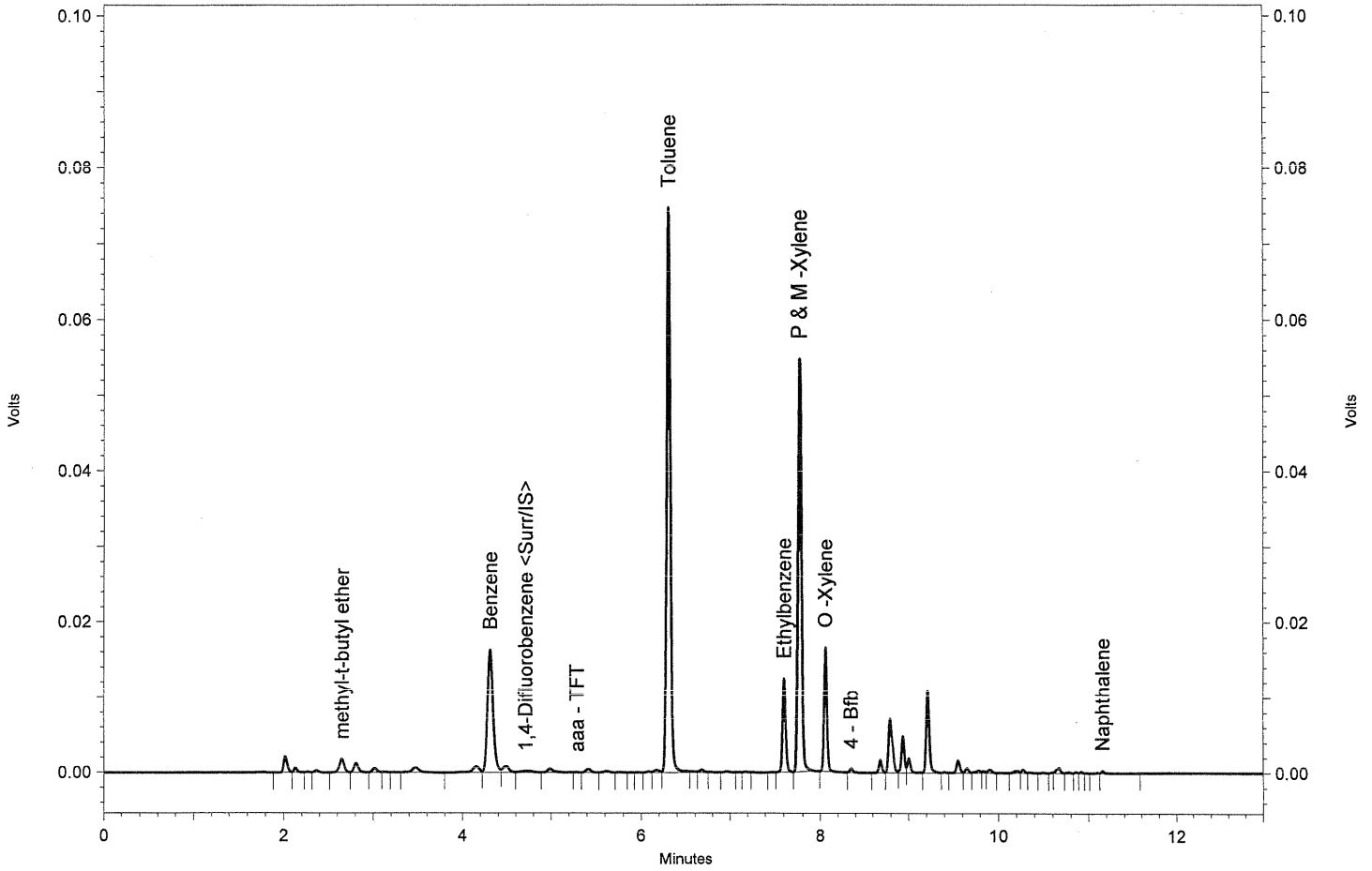
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_017.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.653	6842	0.000 CAL	ppb	BV
Benzene	4.313	72372	0.000 CAL	ppb	VV
1,4-Difluorobenzene <Surr/IS>	4.713	1756	0.000 CAL	ppb	VB
aaa - TFT	5.293	66	0.000 CAL	ppb	SB
Toluene	6.307	213126	0.000 CAL	ppb	VS
Ethylbenzene	7.607	29705	0.000 CAL	ppb	SB
P & M -Xylene	7.770	137907	0.000 CAL	ppb	BS
O -Xylene	8.060	39262	0.000 CAL	ppb	BB
4 - Bfb	8.353	1199	0.000 CAL	ppb	BB
Naphthalene	11.157	689	0.000 CAL	ppb	SB

SGS Environmental Services Inc.

Sample Name: GRO 1000

Date/Time: 8/21/2006 6:44:06 PM

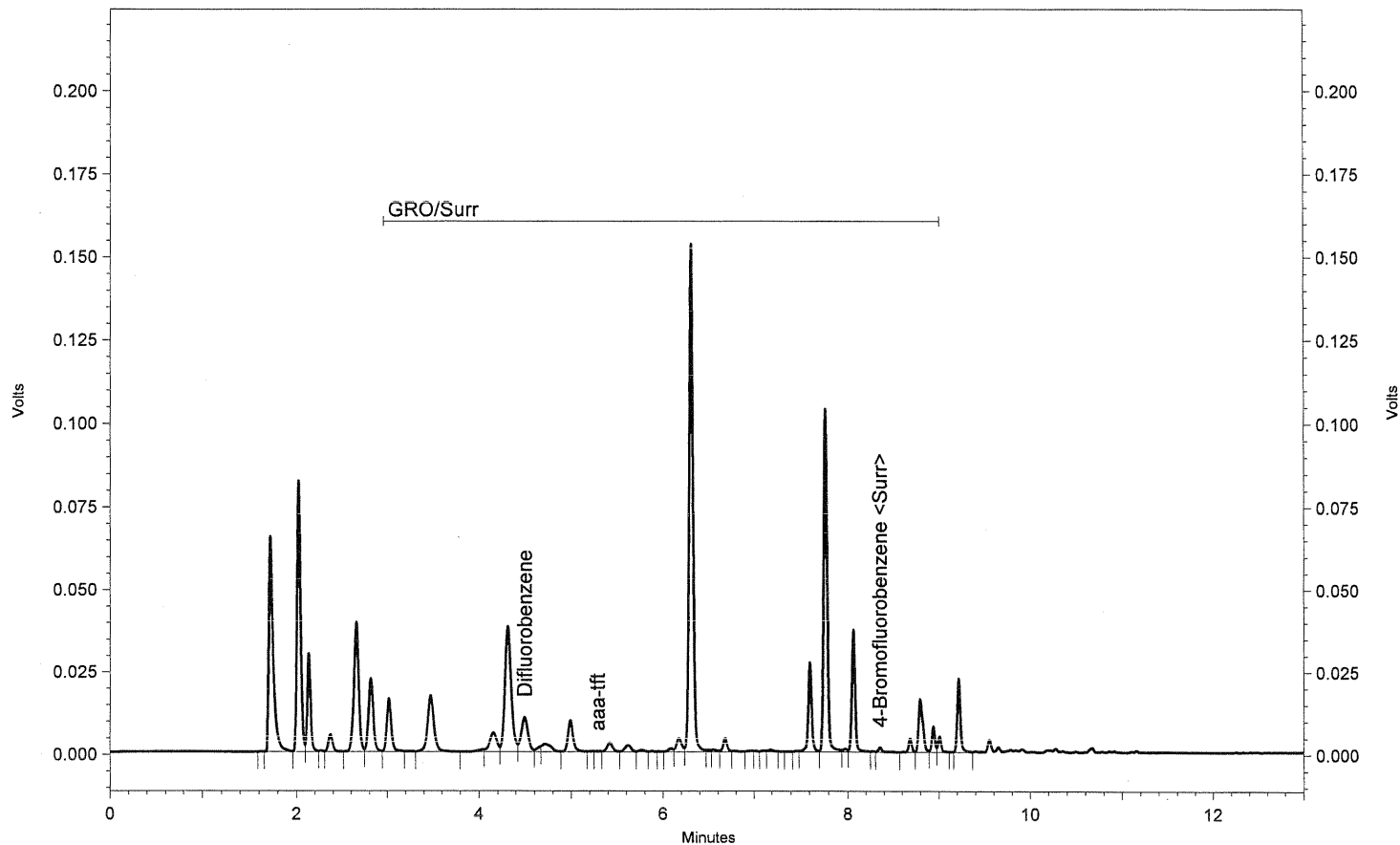
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_017.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.493	52913	0.000 CAL	ppb	LL
aaa-tft	5.287	815	0.000 CAL	ppb	LL
4-Bromofluorobenzene <Surr>	8.353	5190	0.000 CAL	ppb	LL
GRO		1518659	1000.000 CAL	ppb	
GRO/Surr		1518659	1000.000 CAL	ppb	

SGS Environmental Services Inc.

Sample Name: GRO 2400

Date/Time: 8/21/2006 7:03:27 PM

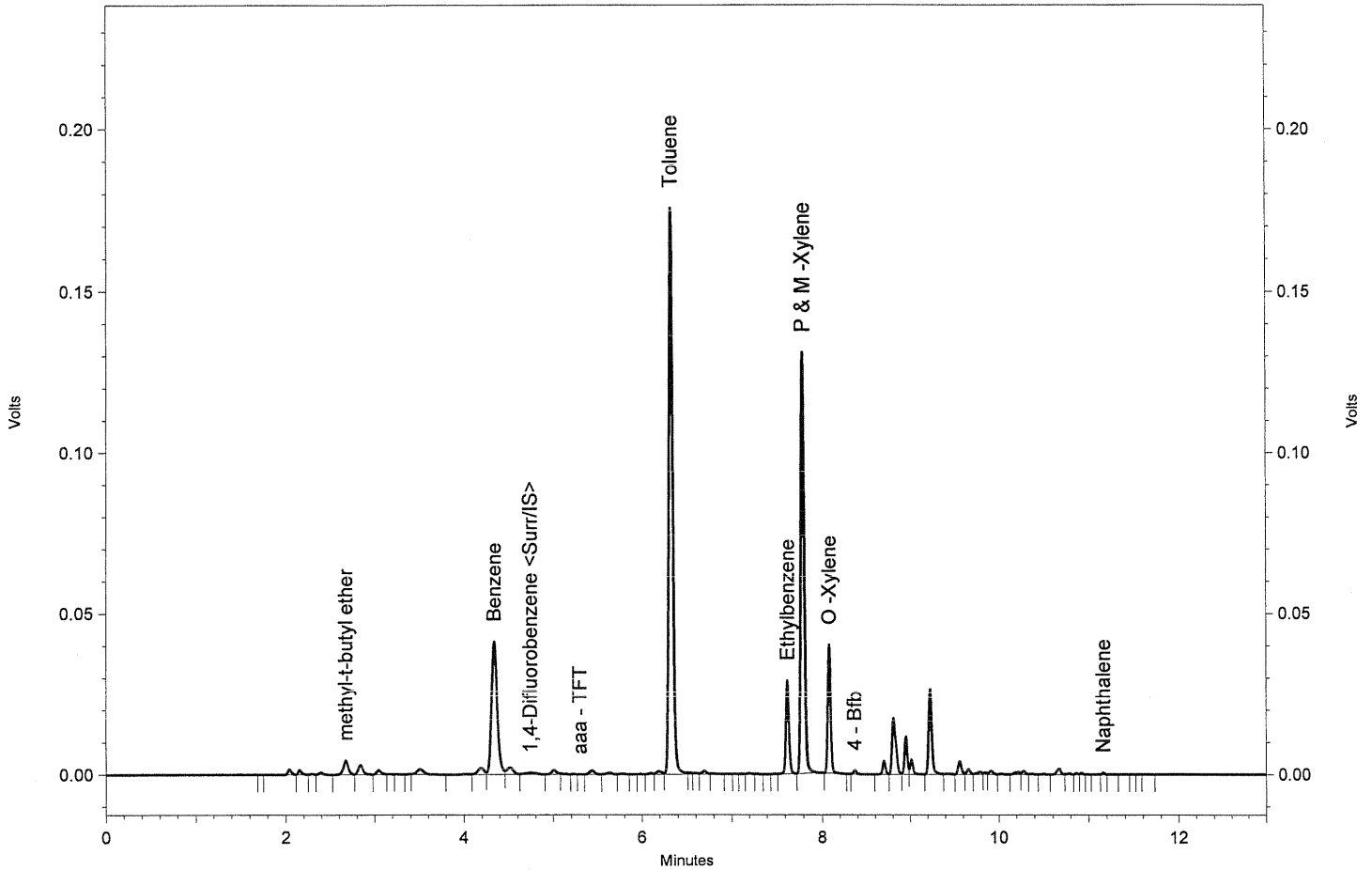
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_018.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.673	17590	0.000 CAL	ppb	BV
Benzene	4.340	185767	0.000 CAL	ppb	VV
1,4-Difluorobenzene <Surr/IS>	4.743	4866	0.000 CAL	ppb	VV
aaa - TFT	5.300	291	0.000 CAL	ppb	VV
Toluene	6.330	511553	0.000 CAL	ppb	VS
Ethylbenzene	7.630	70204	0.000 CAL	ppb	SB
P & M -Xylene	7.797	323104	0.000 CAL	ppb	BS
O -Xylene	8.080	93504	0.000 CAL	ppb	BS
4 - Bfb	8.367	2746	0.000 CAL	ppb	BB
Naphthalene	11.163	1116	0.000 CAL	ppb	SS

SGS Environmental Services Inc.

Sample Name: GRO 2400

Date/Time: 8/21/2006 7:03:27 PM

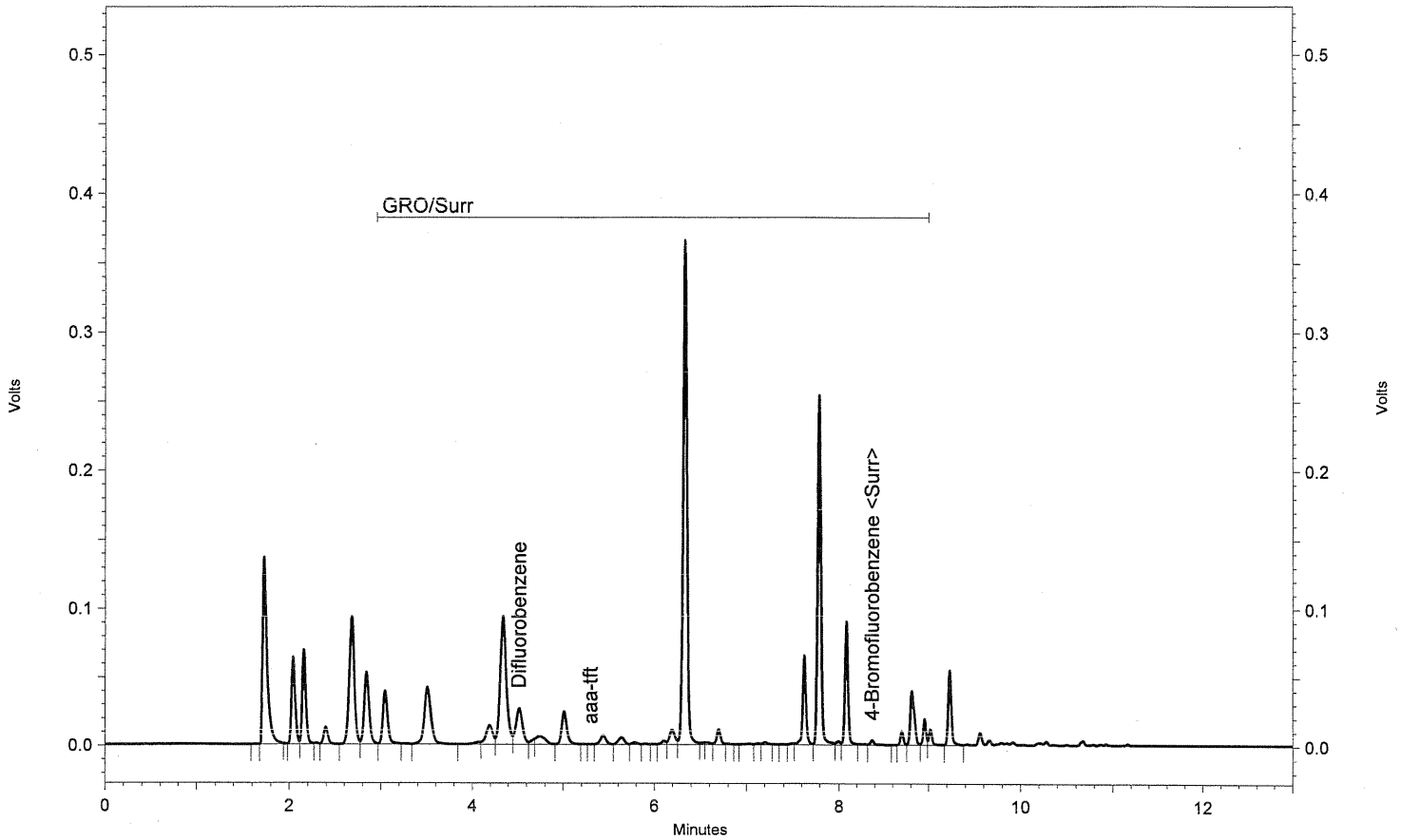
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_018.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.517	134396	0.000 CAL	ppb	LL
aaa-tft	5.297	1576	0.000 CAL	ppb	LL
4-Bromofluorobenzene <Surr>	8.370	11920	0.000 CAL	ppb	LL
GRO		3707022	2400.000 CAL	ppb	
GRO/Surr		3707022	2400.000 CAL	ppb	

SGS Environmental Services Inc.

Sample Name: GRO 4000

Date/Time: 8/21/2006 7:23:02 PM

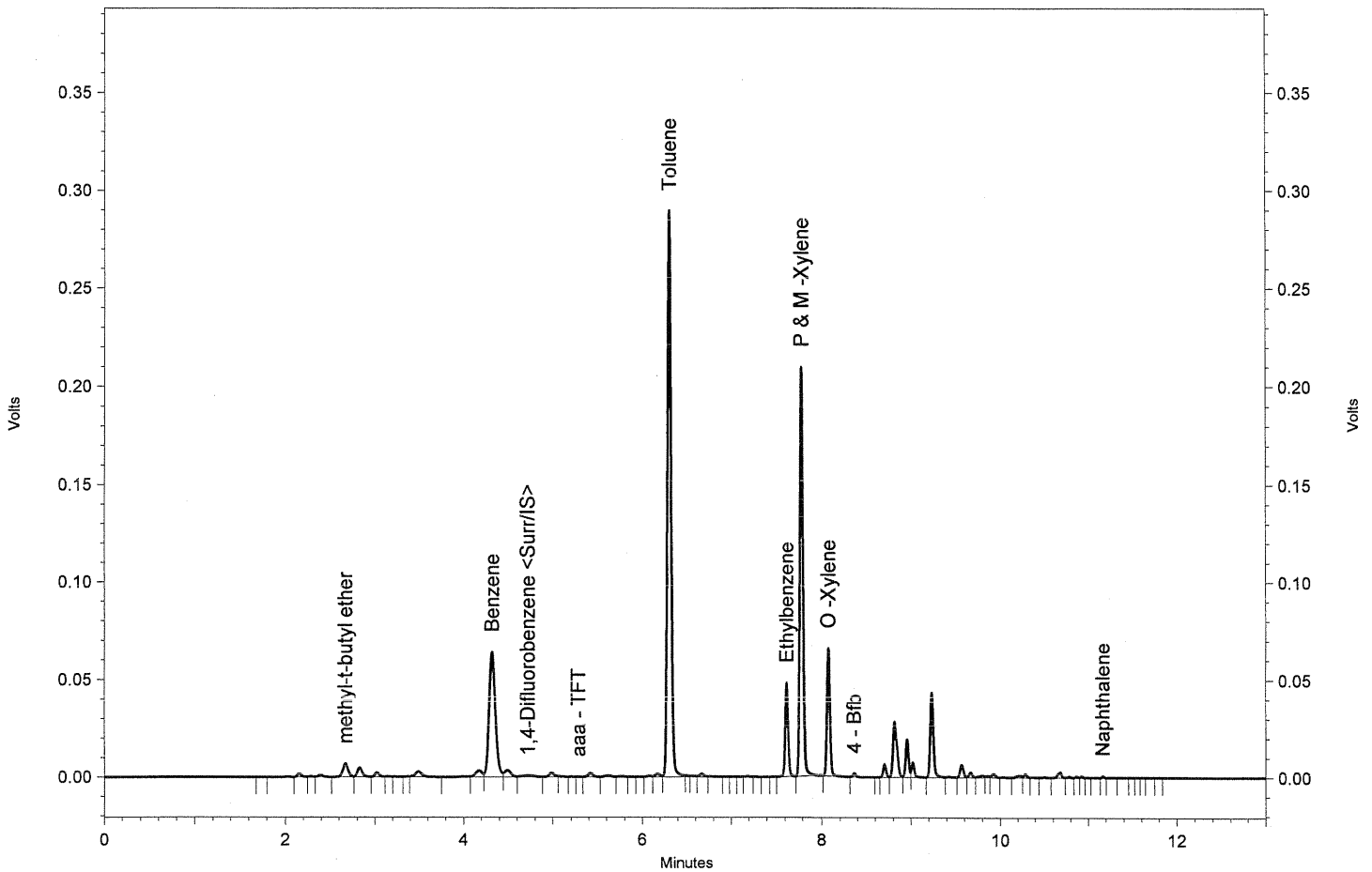
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_019.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.667	28772	0.000 CAL	ppb	BV
Benzene	4.323	307098	0.000 CAL	ppb	VV
1,4-Difluorobenzene <Surr/IS>	4.723	7942	0.000 CAL	ppb	VV
aaa - TFT	5.283	448	0.000 CAL	ppb	VV
Toluene	6.310	830061	0.000 CAL	ppb	VS
Ethylbenzene	7.623	116156	0.000 CAL	ppb	SB
P & M -Xylene	7.790	522583	0.000 CAL	ppb	BS
O -Xylene	8.073	155367	0.000 CAL	ppb	BS
4 - Bfb	8.363	4473	0.000 CAL	ppb	BB
Naphthalene	11.167	1811	0.000 CAL	ppb	SS

SGS Environmental Services Inc.

Sample Name: GRO 4000

Date/Time: 8/21/2006 7:23:02 PM

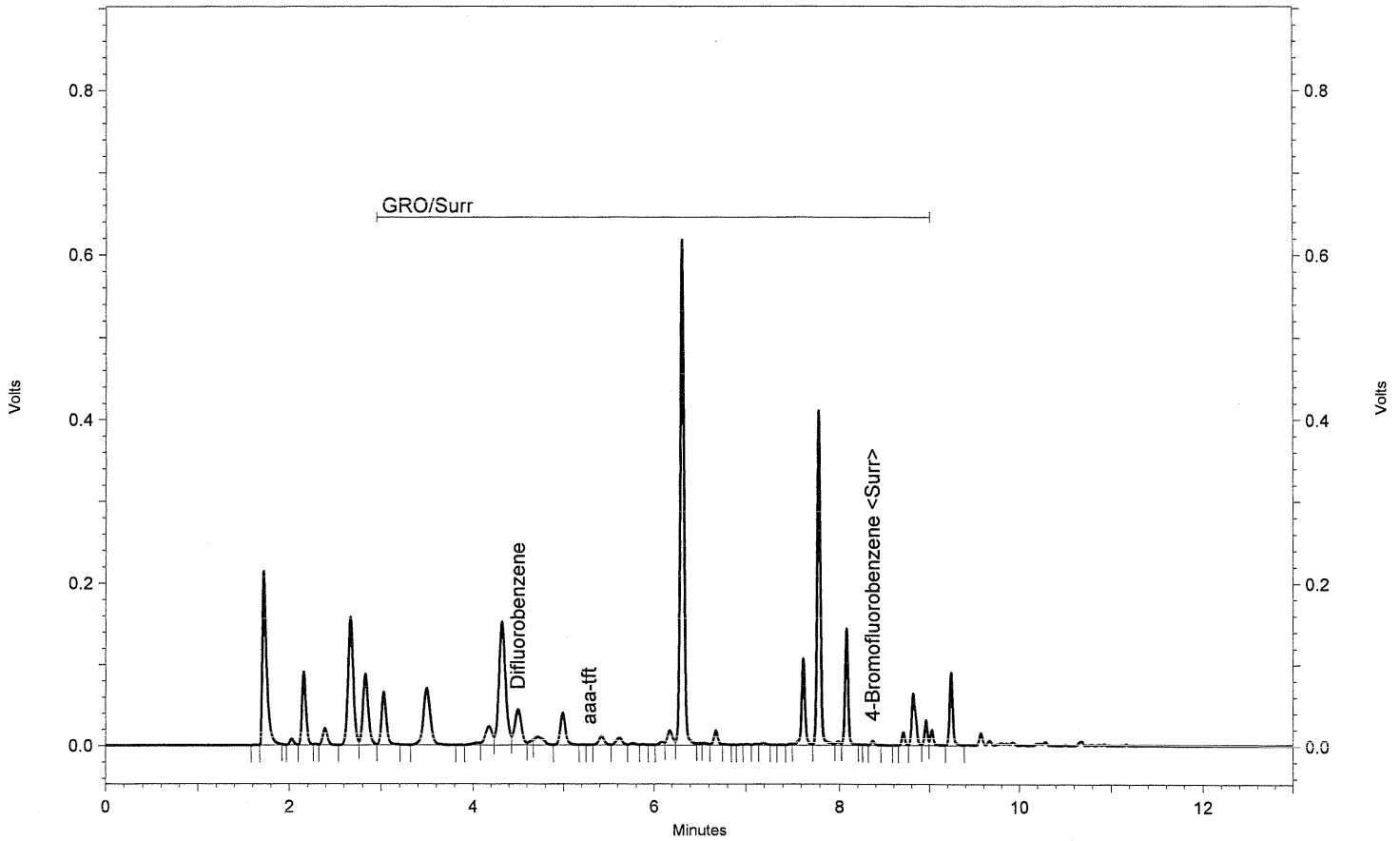
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_019.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.497	223771	0.000 CAL	ppb	LL
aaa-tft	5.280	2569	0.000 CAL	ppb	LL
4-Bromofluorobenzene <Surr>	8.363	16805	0.000 CAL	ppb	LL
GRO		6134334	4000.000 CAL	ppb	
GRO/Surr		6134334	4000.000 CAL	ppb	

SGS Environmental Services Inc.

Sample Name: IB

Date/Time: 8/22/2006 11:24:48 AM

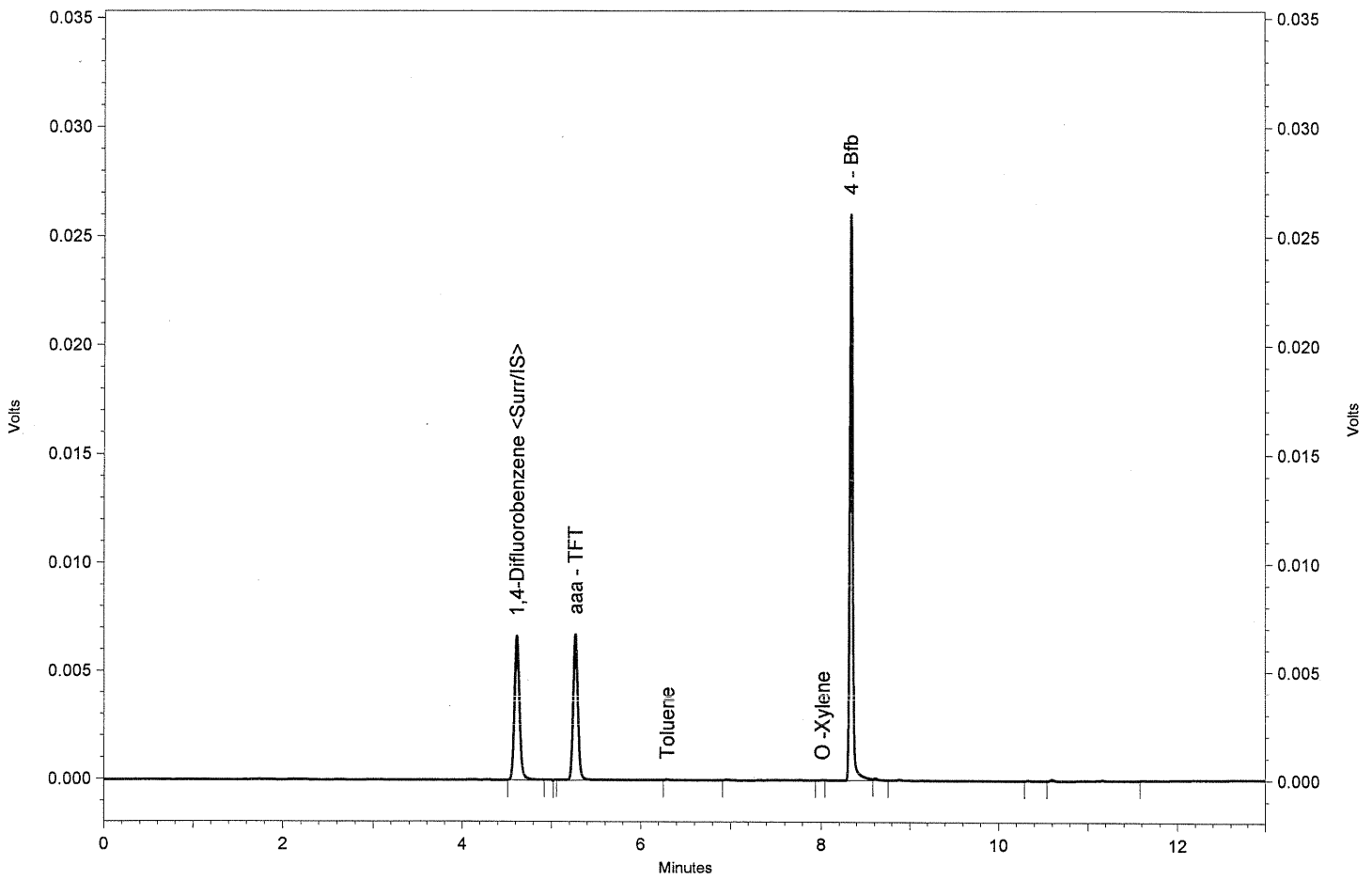
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_025.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
1,4-Difluorobenzene <Surr/IS>	4.617	26325	46.531	ppb	BV
aaa - TFT	5.267	24799	0.000	ppb	SB
Toluene	6.297	100	0.071 LC	ppb	BB
O -Xylene	8.017	48	0.038 LC	ppb	SS
4 - Bfb	8.337	60881	46.733	ppb	SV

SGS Environmental Services Inc.

Sample Name: IB

Date/Time: 8/22/2006 11:24:48 AM

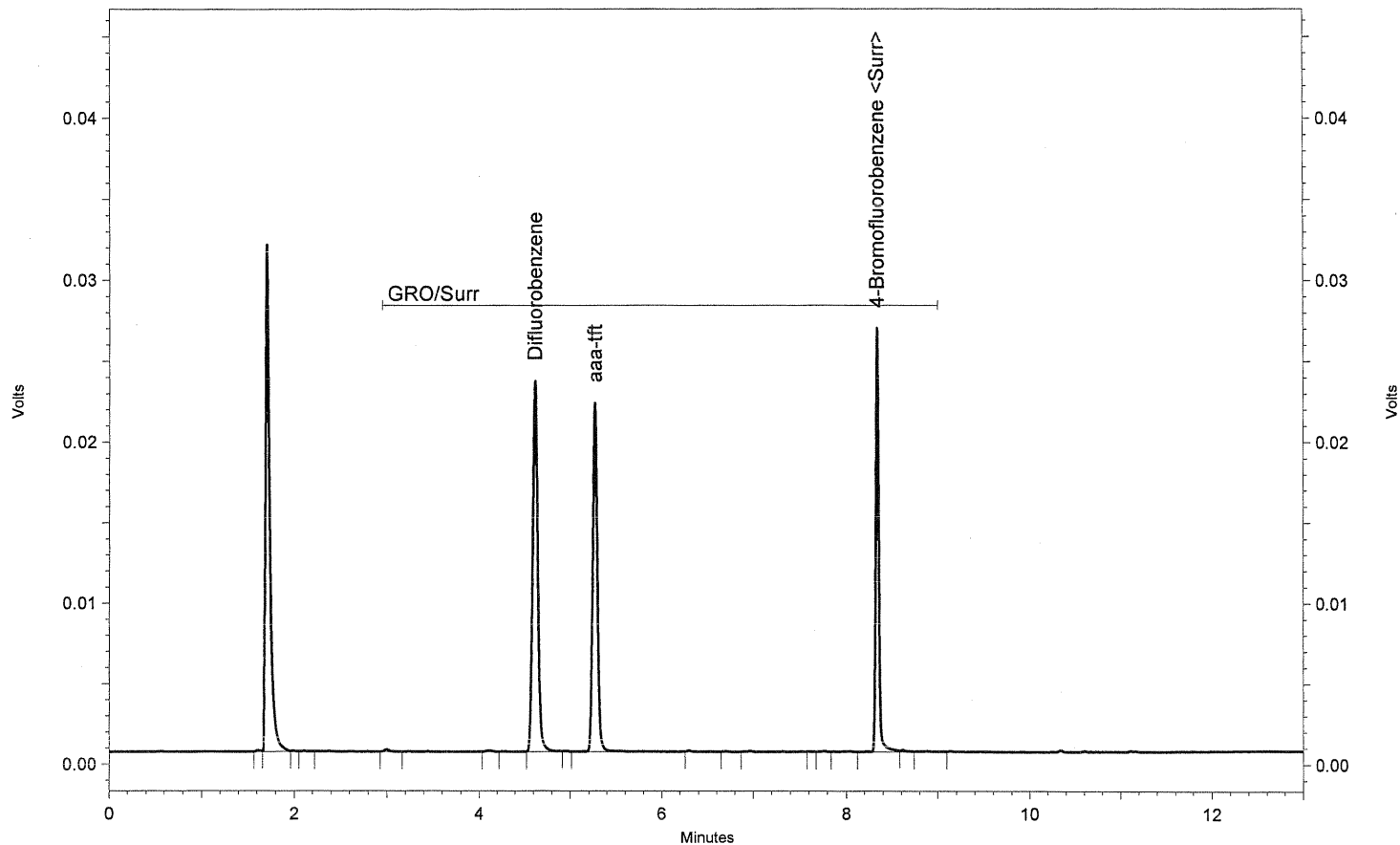
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_025.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.617	89864	51.040	ppb	LL
aaa-tft	5.267	78590	52.678	ppb	LL
4-Bromofluorobenzene <Surr>	8.337	62076	50.233	ppb	LL
GRO		235339	184.532	ppb	
GRO/Surr		235339	184.532	ppb	

SGS Environmental Services Inc.

Sample Name: C6-C10

Date/Time: 8/22/2006 11:44:23 AM

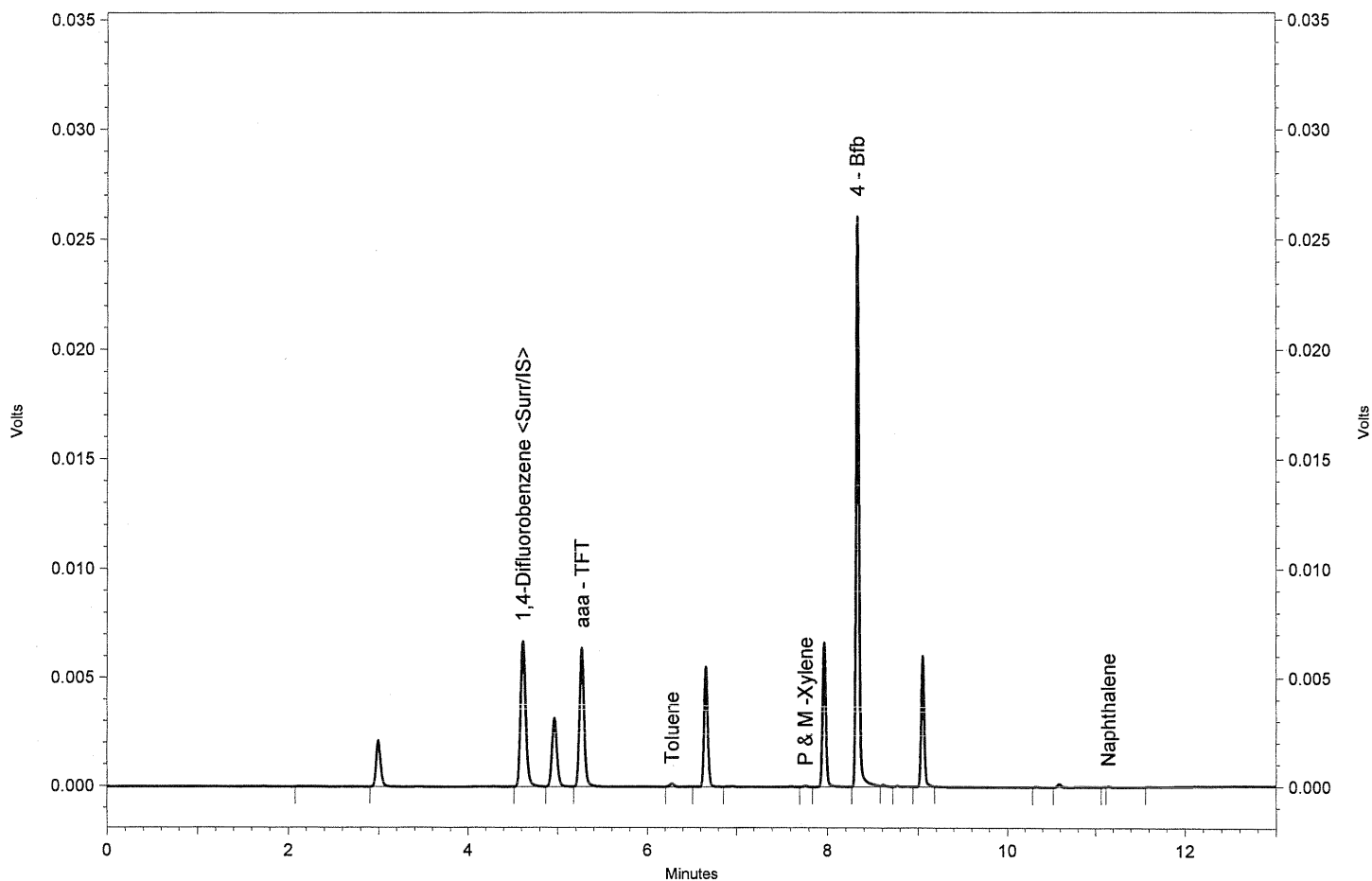
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_026.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
1,4-Difluorobenzene <Surr/IS>	4.620	26353	49.543	ppb	BV
aaa - TFT	5.270	23316	0.000	ppb	VB
Toluene	6.280	524	0.397 LC	ppb	BB
P & M -Xylene	7.767	150	0.116 LC	ppb	SB
4 - Bfb	8.333	60726	49.579	ppb	BV
Naphthalene	11.150	103	0.211 LC	ppb	SB

SGS Environmental Services Inc.

Sample Name: C6-C10

Date/Time: 8/22/2006 11:44:23 AM

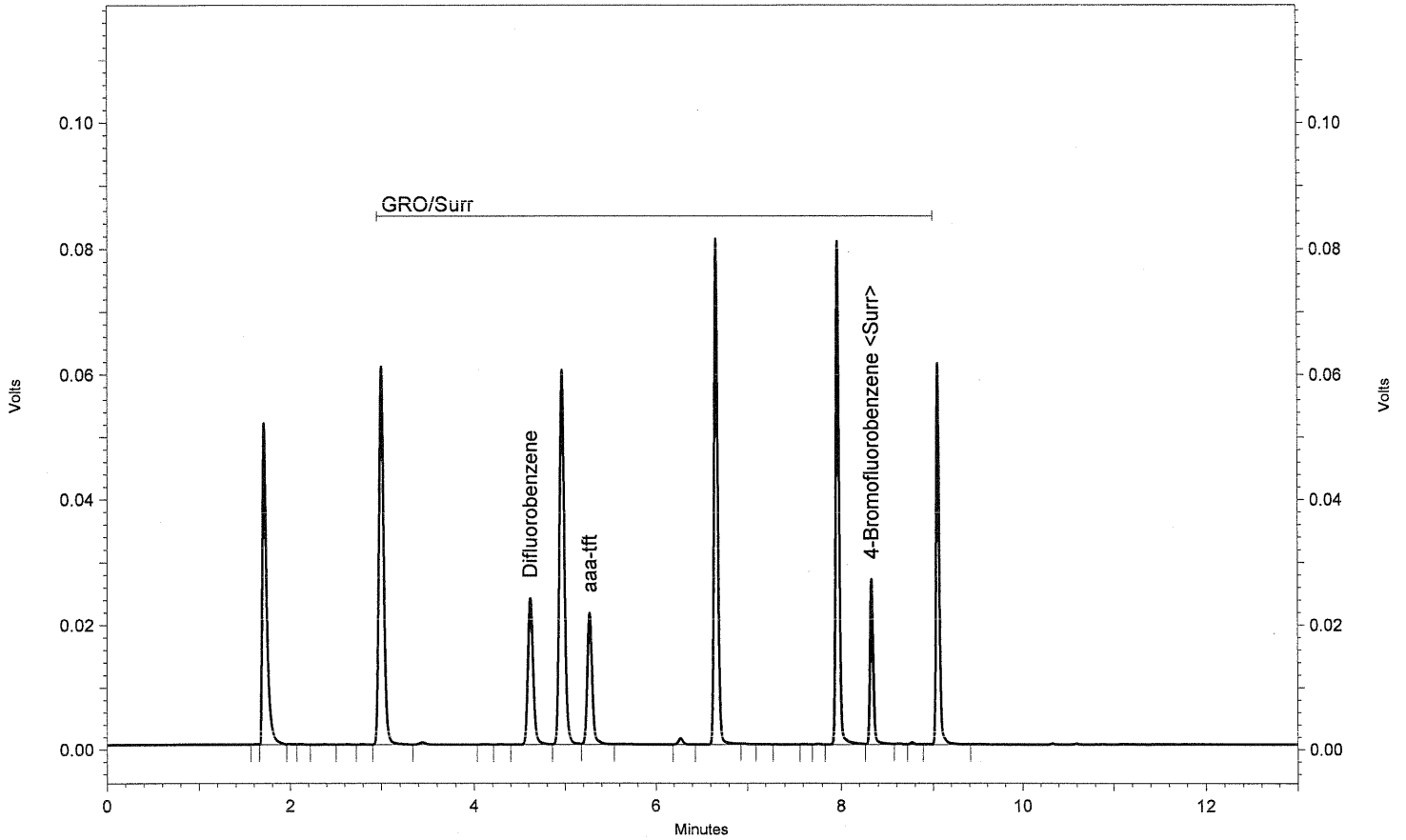
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_026.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.620	92800	52.708	ppb	LL
aaa-tft	5.270	79278	53.140	ppb	LL
4-Bromofluorobenzene <Surr>	8.333	62668	50.712	ppb	LL
GRO		1136285	890.973	ppb	
GRO/Surr		1136285	890.973	ppb	

SGS Environmental Services Inc.

Sample Name: BTEX .5

Date/Time: 8/22/2006 3:29:18 PM

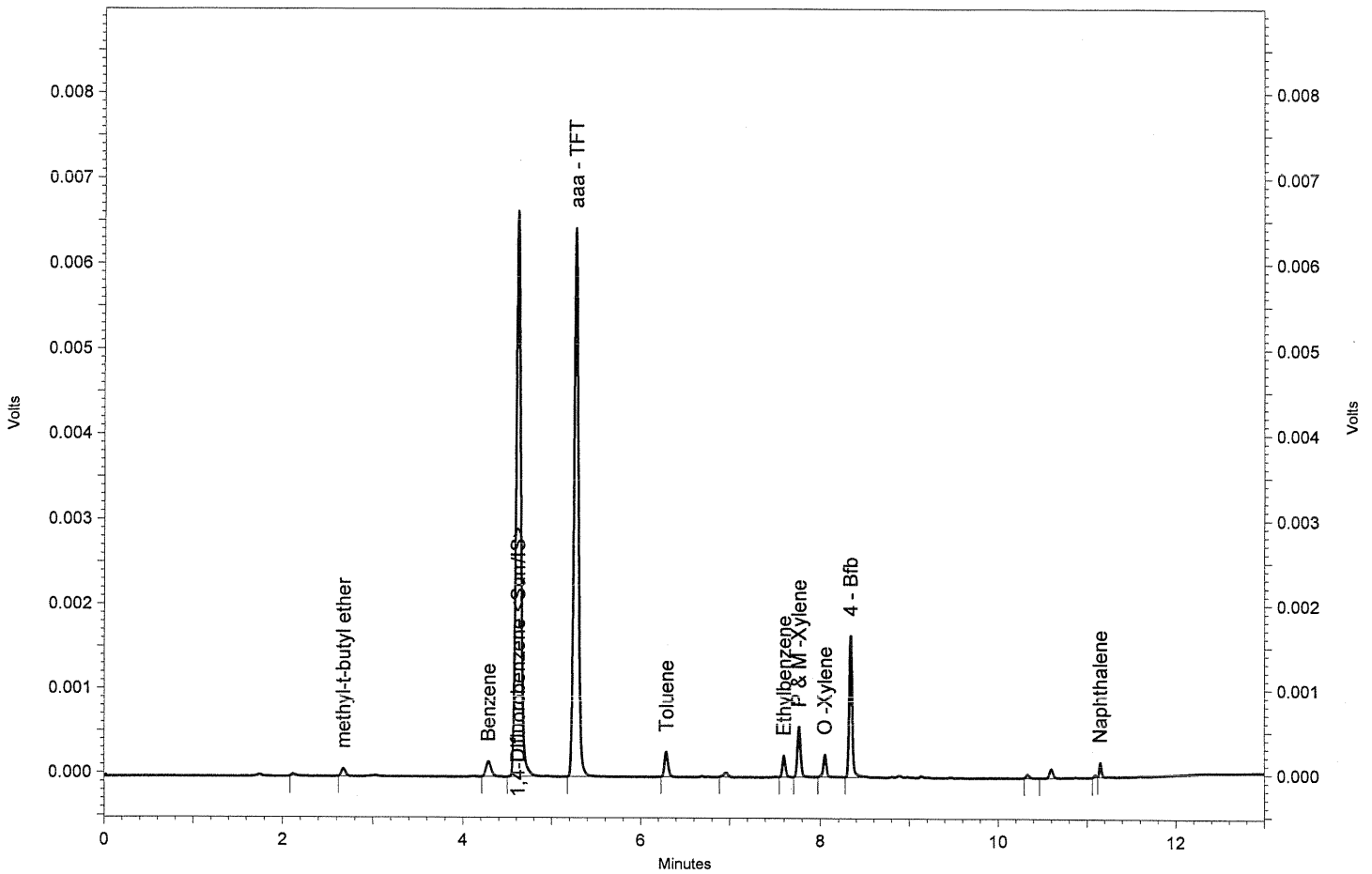
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_034.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.673	294	0.000 CAL	ppb	BB
Benzene	4.283	750	0.500 CAL	ppb	BB
1,4-Difluorobenzene <Surr/IS>	4.617	25434	0.000 CAL	ppb	BB
aaa - TFT	5.270	22970	0.000 CAL	ppb	BB
Toluene	6.290	828	0.000 CAL	ppb	BB
Ethylbenzene	7.600	617	0.000 CAL	ppb	BB
P & M -Xylene	7.763	1477	0.000 CAL	ppb	BB
O -Xylene	8.050	673	0.000 CAL	ppb	BB
4 - Bfb	8.333	4035	0.000 CAL	ppb	BB
Naphthalene	11.150	308	0.000 CAL	ppb	SB

SGS Environmental Services Inc.

Sample Name: BTEX .5

Date/Time: 8/22/2006 3:29:18 PM

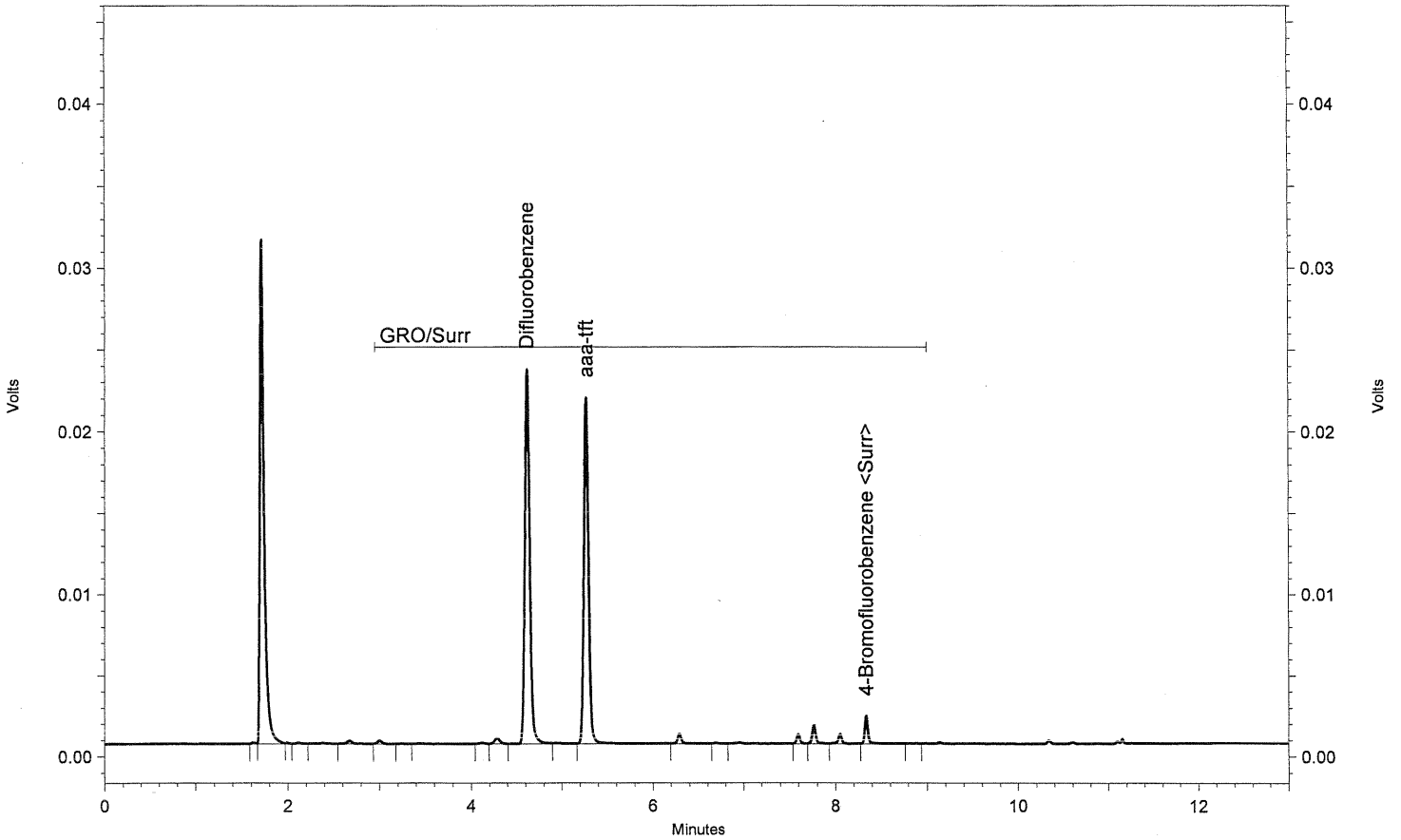
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_034.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.617	88729	0.000 CAL	ppb	LL
aaa-tft	5.270	76444	50.000 CAL	ppb	LL
4-Bromofluorobenzene <Surr>	8.337	4607	0.000 CAL	ppb	LL
GRO		13747	0.000 CAL	ppb	
GRO/Surr		183527	0.000 CAL	ppb	

SGS Environmental Services Inc.

Sample Name: BTEX 1.0

Date/Time: 8/22/2006 3:48:39 PM

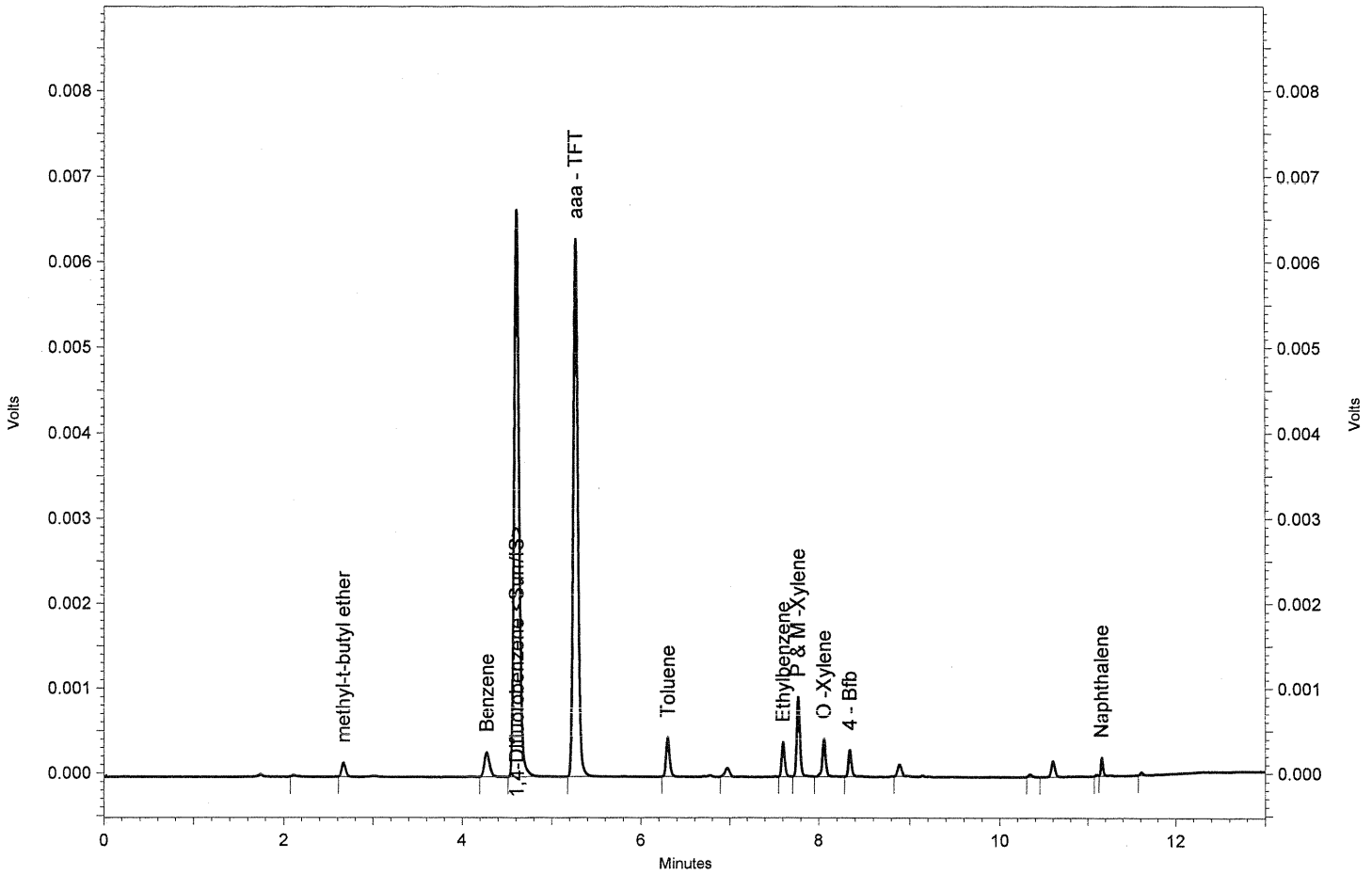
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_035.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.667	544	1.000 CAL	ppb	BB
Benzene	4.277	1213	1.000 CAL	ppb	BB
1,4-Difluorobenzene <Surr/IS>	4.610	25320	50.000 CAL	ppb	BB
aaa - TFT	5.270	22659	0.000 CAL	ppb	BB
Toluene	6.300	1294	1.000 CAL	ppb	BB
Ethylbenzene	7.607	1016	1.000 CAL	ppb	BV
P & M -Xylene	7.773	2414	2.000 CAL	ppb	VV
O -Xylene	8.060	1183	1.000 CAL	ppb	VB
4 - Bfb	8.343	741	0.000 CAL	ppb	BB
Naphthalene	11.160	368	1.000 CAL	ppb	SB

SGS Environmental Services Inc.

Sample Name: BTEX 1.0

Date/Time: 8/22/2006 3:48:39 PM

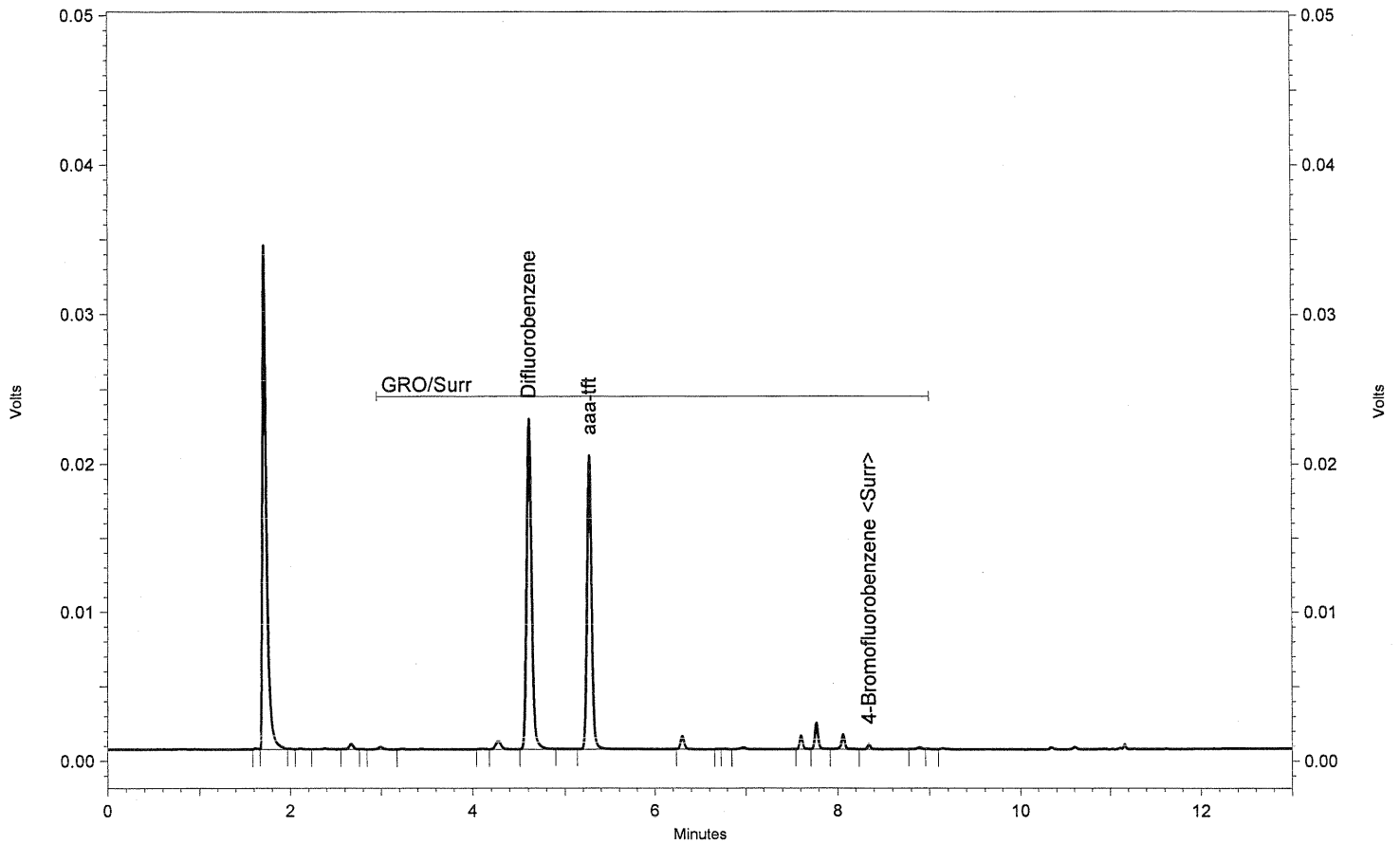
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_035.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.610	85209	50.000 CAL	ppb	LL
aaa-tft	5.270	71972	50.000 CAL	ppb	LL
4-Bromofluorobenzene <Surr>	8.347	967	0.000 CAL	ppb	LL
GRO		18816	0.000 CAL	ppb	
GRO/Surr		176964	0.000 CAL	ppb	

SGS Environmental Services Inc.

Sample Name: BTEX 10

Date/Time: 8/22/2006 4:08:15 PM

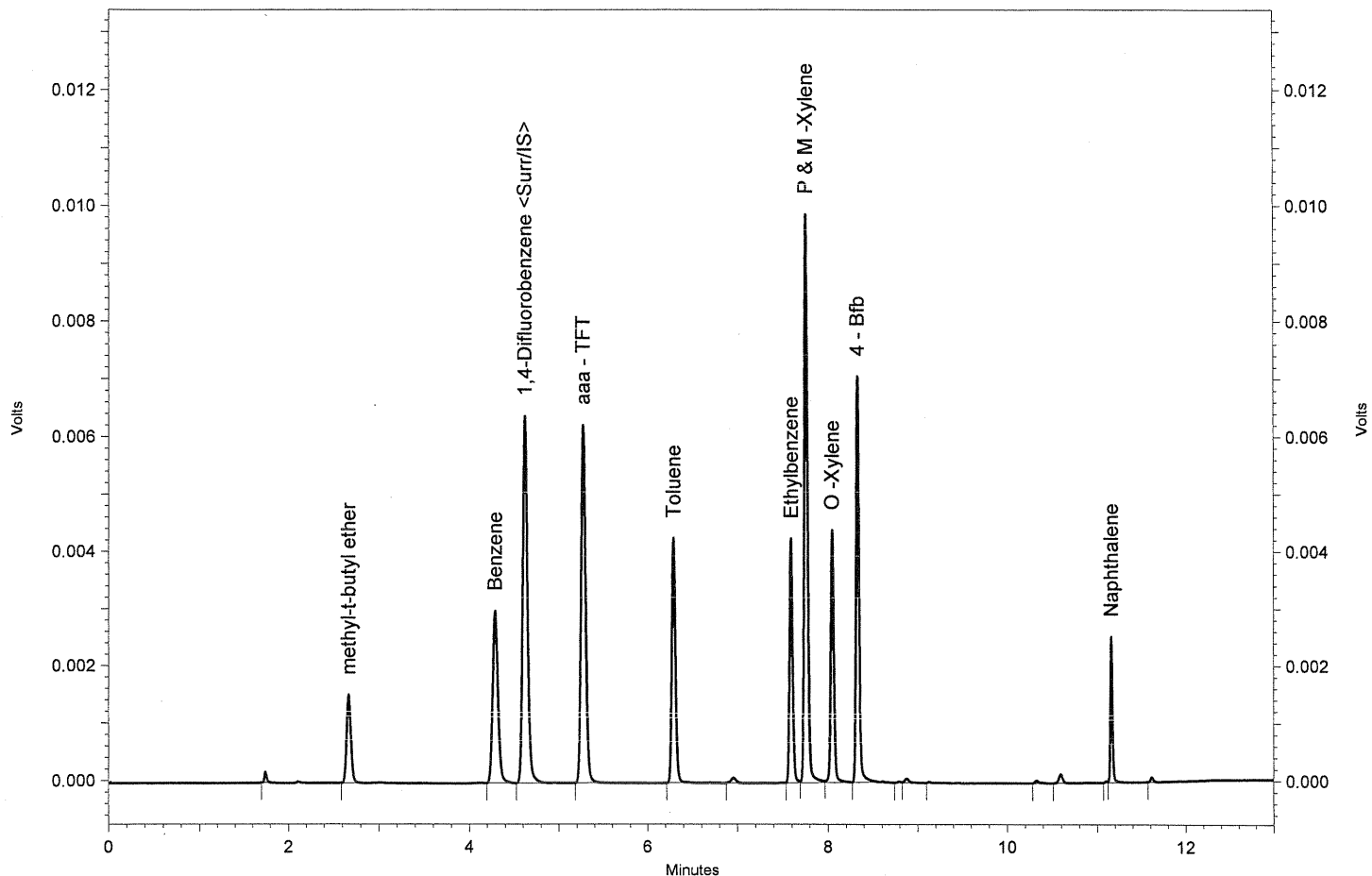
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_036.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.667	5198	10.000 CAL	ppb	BB
Benzene	4.290	12572	10.000 CAL	ppb	BB
1,4-Difluorobenzene <Surr/IS>	4.623	24343	50.000 CAL	ppb	BB
aaa - TFT	5.273	22030	0.000 CAL	ppb	BB
Toluene	6.290	11788	10.000 CAL	ppb	BB
Ethylbenzene	7.597	10438	10.000 CAL	ppb	BV
P & M -Xylene	7.763	25178	20.000 CAL	ppb	VV
O -Xylene	8.047	10959	10.000 CAL	ppb	VV
4 - Bfb	8.330	16443	12.500 CAL	ppb	VB
Naphthalene	11.157	4408	10.000 CAL	ppb	SB

SGS Environmental Services Inc.

Sample Name: BTEX 10

Date/Time: 8/22/2006 4:08:15 PM

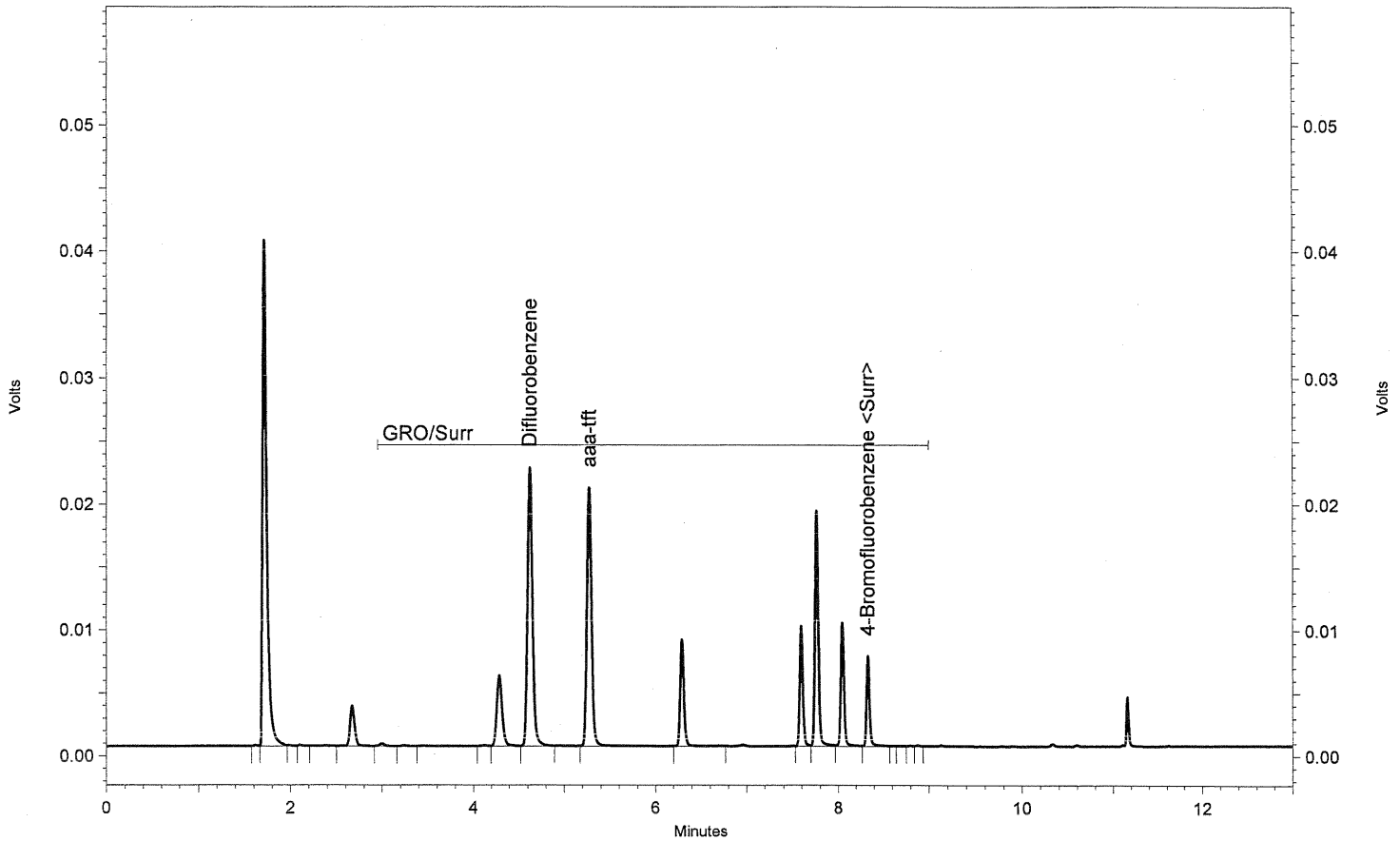
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_036.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.623	84953	50.000 CAL	ppb	LL
aaa-tft	5.273	73471	50.000 CAL	ppb	LL
4-Bromofluorobenzene <Surr>	8.330	17564	12.500 CAL	ppb	LL
GRO		149732	0.000 CAL	ppb	
GRO/Surr		325720	0.000 CAL	ppb	

SGS Environmental Services Inc.

Sample Name: BTEX 40

Date/Time: 8/22/2006 4:27:42 PM

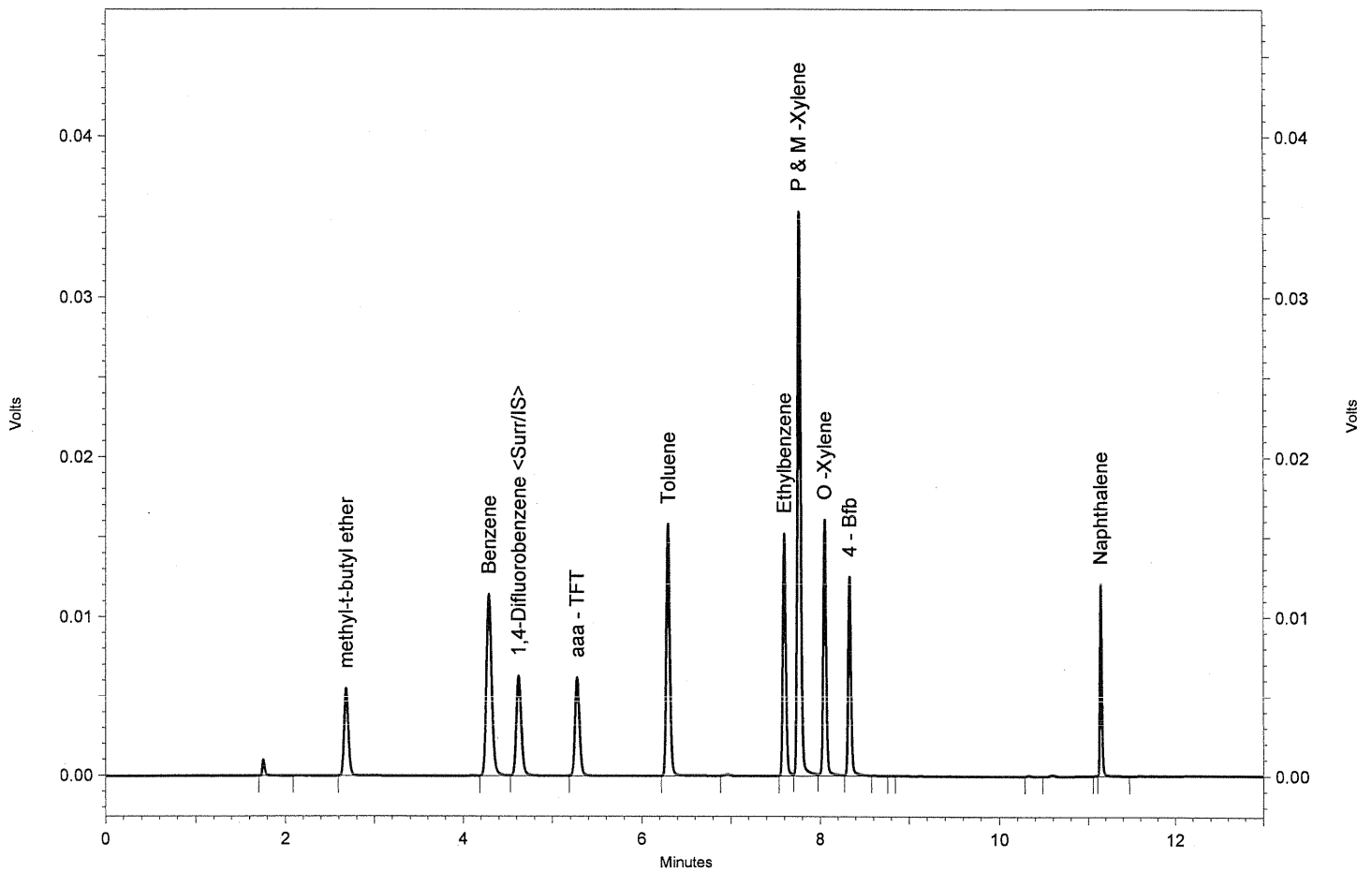
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_037.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.680	18675	40.000 CAL	ppb	BB
Benzene	4.290	47719	40.000 CAL	ppb	BV
1,4-Difluorobenzene <Surr/IS>	4.623	24221	50.000 CAL	ppb	VB
aaa - TFT	5.277	21630	0.000 CAL	ppb	BB
Toluene	6.297	43368	40.000 CAL	ppb	BB
Ethylbenzene	7.600	36996	40.000 CAL	ppb	BV
P & M -Xylene	7.767	89350	80.000 CAL	ppb	VV
O -Xylene	8.050	39786	40.000 CAL	ppb	VV
4 - Bfb	8.333	29183	25.000 CAL	ppb	VV
Naphthalene	11.147	19732	40.000 CAL	ppb	SV

SGS Environmental Services Inc.

Sample Name: BTEX 40

Date/Time: 8/22/2006 4:27:42 PM

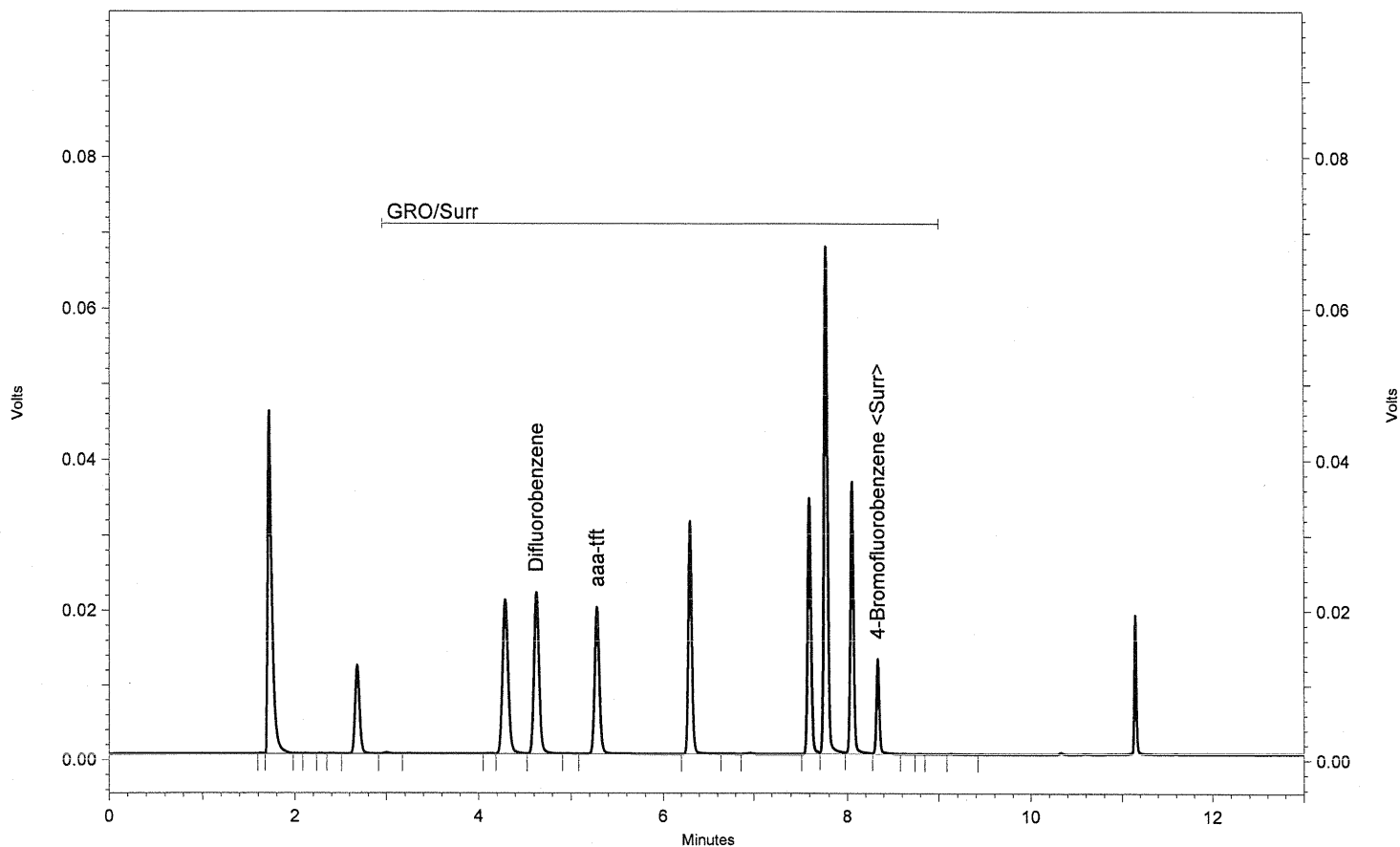
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_037.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.623	84061	50.000 CAL	ppb	LL
aaa-tft	5.277	69620	50.000 CAL	ppb	LL
4-Bromofluorobenzene <Surr>	8.333	30858	25.000 CAL	ppb	LL
GRO		522283	0.000 CAL	ppb	
GRO/Surr		706822	0.000 CAL	ppb	

SGS Environmental Services Inc.

Sample Name: BTEX 120

Date/Time: 8/22/2006 4:47:04 PM

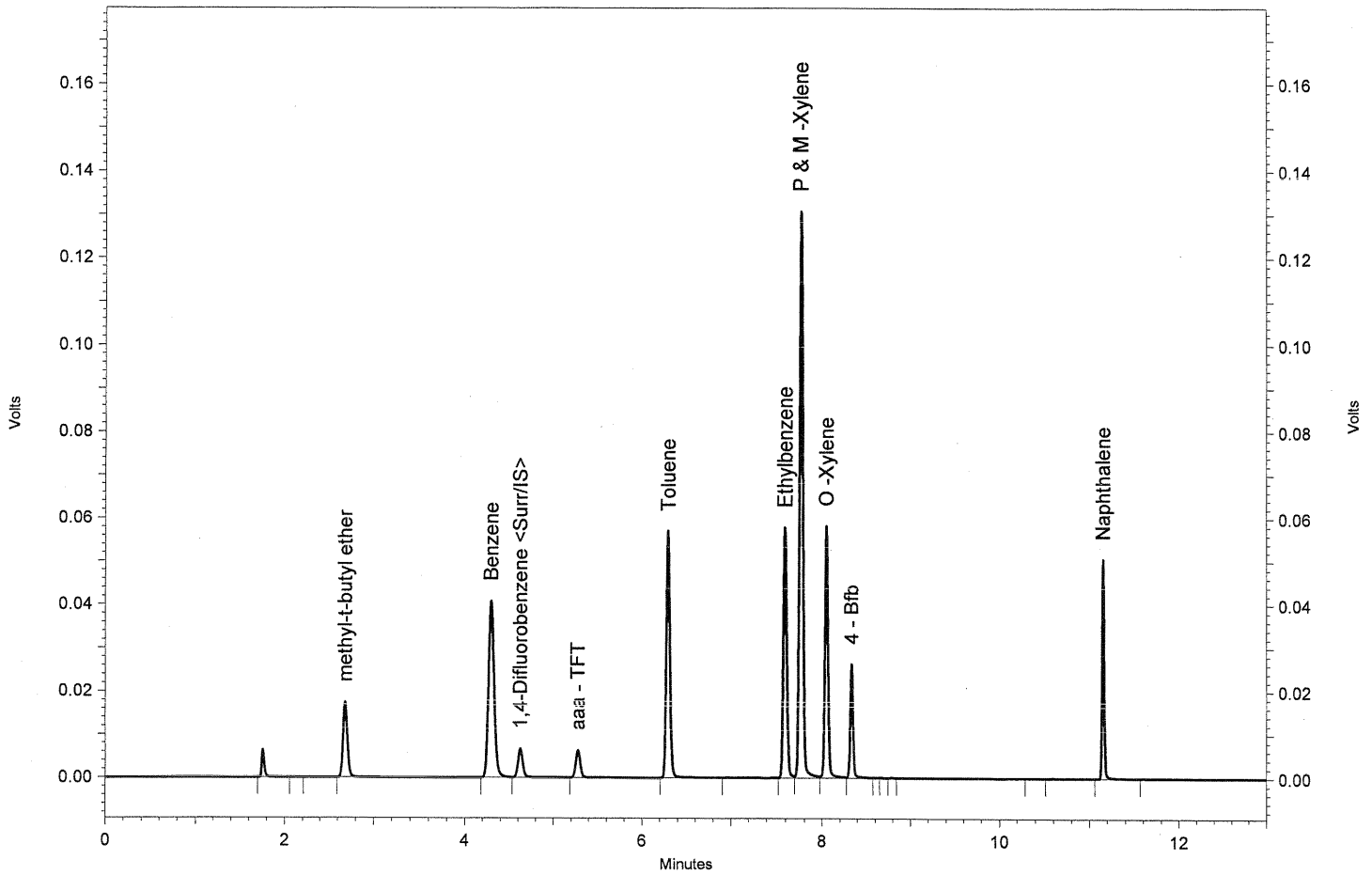
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_038.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.683	60772	120.000 CAL	ppb	BB
Benzene	4.297	177988	120.000 CAL	ppb	BV
1,4-Difluorobenzene <Surr/IS>	4.627	25650	50.000 CAL	ppb	VB
aaa - TFT	5.280	22344	0.000 CAL	ppb	BB
Toluene	6.297	160298	120.000 CAL	ppb	BB
Ethylbenzene	7.597	142068	120.000 CAL	ppb	BV
P & M -Xylene	7.763	335656	240.000 CAL	ppb	VV
O -Xylene	8.050	145035	120.000 CAL	ppb	VV
4 - Bfb	8.333	61846	50.000 CAL	ppb	VV
Naphthalene	11.153	82691	120.000 CAL	ppb	BV

SGS Environmental Services Inc.

Sample Name: BTEX 120

Date/Time: 8/22/2006 4:47:04 PM

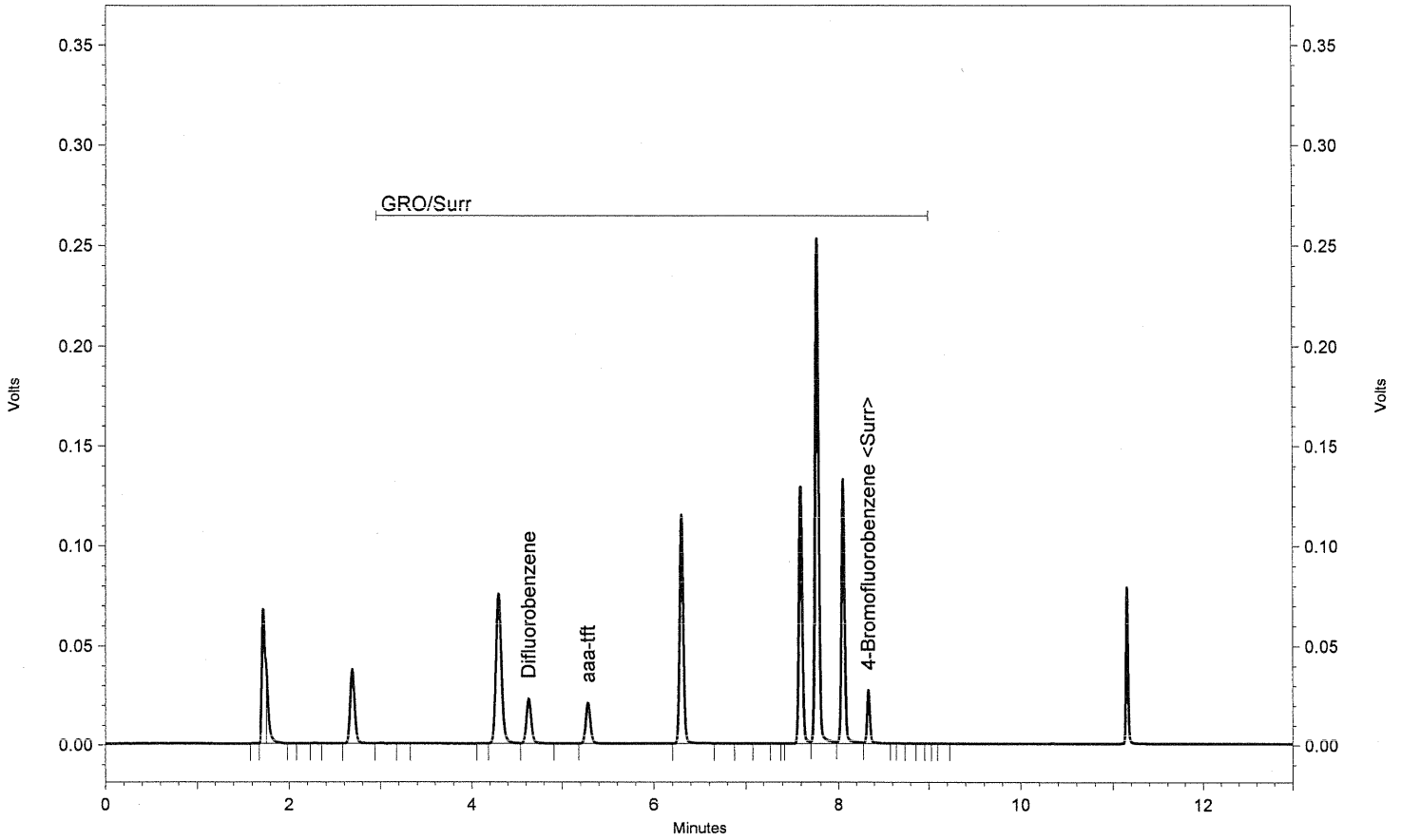
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_038.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.630	88804	50.000 CAL	ppb	LL
aaa-tft	5.280	74559	50.000 CAL	ppb	LL
4-Bromofluorobenzene <Surr>	8.337	66075	50.000 CAL	ppb	LL
GRO		1950817	0.000 CAL	ppb	
GRO/Surr		2180255	0.000 CAL	ppb	

SGS Environmental Services Inc.

Sample Name: BTEX 200

Date/Time: 8/22/2006 5:06:26 PM

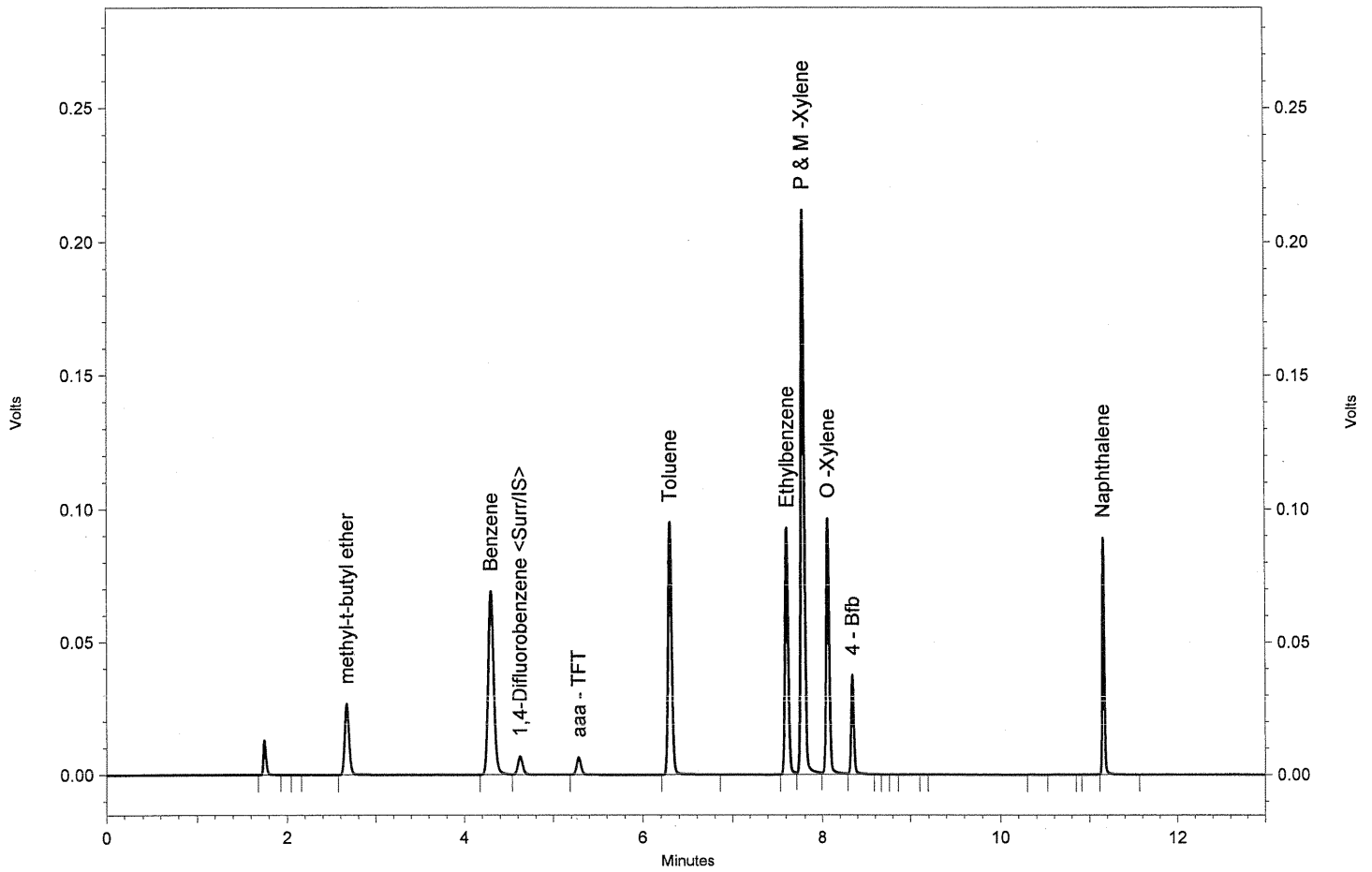
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_039.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.670	94428	200.000 CAL	ppb	BB
Benzene	4.300	303188	200.000 CAL	ppb	BV
1,4-Difluorobenzene <Surr/IS>	4.627	26986	50.000 CAL	ppb	VB
aaa - TFT	5.283	22872	0.000 CAL	ppb	BB
Toluene	6.300	268954	200.000 CAL	ppb	BV
Ethylbenzene	7.613	232122	200.000 CAL	ppb	BV
P & M -Xylene	7.783	539034	400.000 CAL	ppb	VV
O -Xylene	8.067	238799	200.000 CAL	ppb	VV
4 - Bfb	8.347	86567	75.000 CAL	ppb	VV
Naphthalene	11.157	145928	200.000 CAL	ppb	SV

SGS Environmental Services Inc.

Sample Name: BTEX 200

Date/Time: 8/22/2006 5:06:26 PM

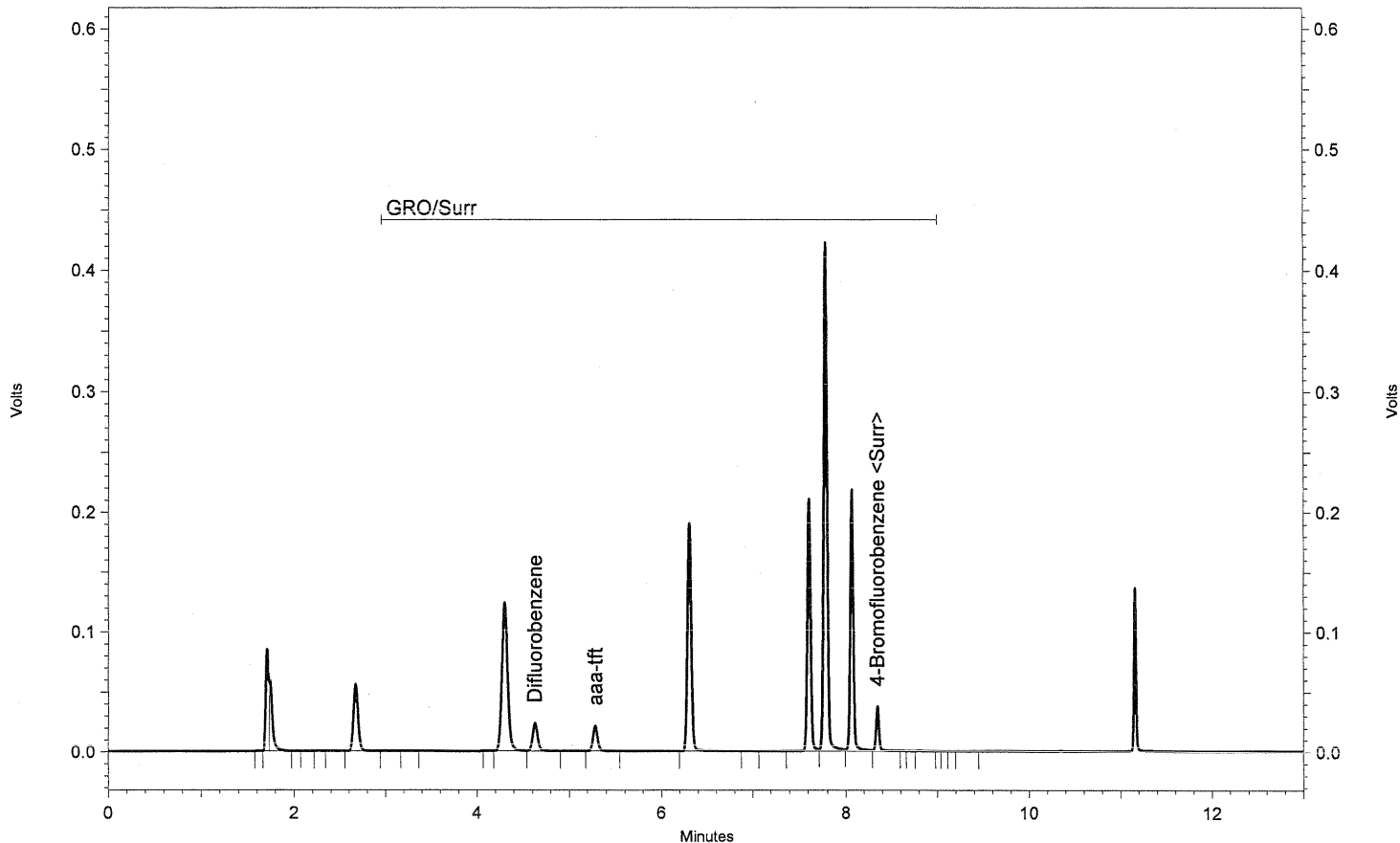
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_039.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.627	93209	50.000 CAL	ppb	LL
aaa-tft	5.283	76338	50.000 CAL	ppb	LL
4-Bromofluorobenzene <Surr>	8.347	90429	75.000 CAL	ppb	LL
GRO		3205683	0.000 CAL	ppb	
GRO/Surr		3465659	0.000 CAL	ppb	

SGS Environmental Services Inc.

Sample Name: BTEX 240

Date/Time: 8/22/2006 5:25:39 PM

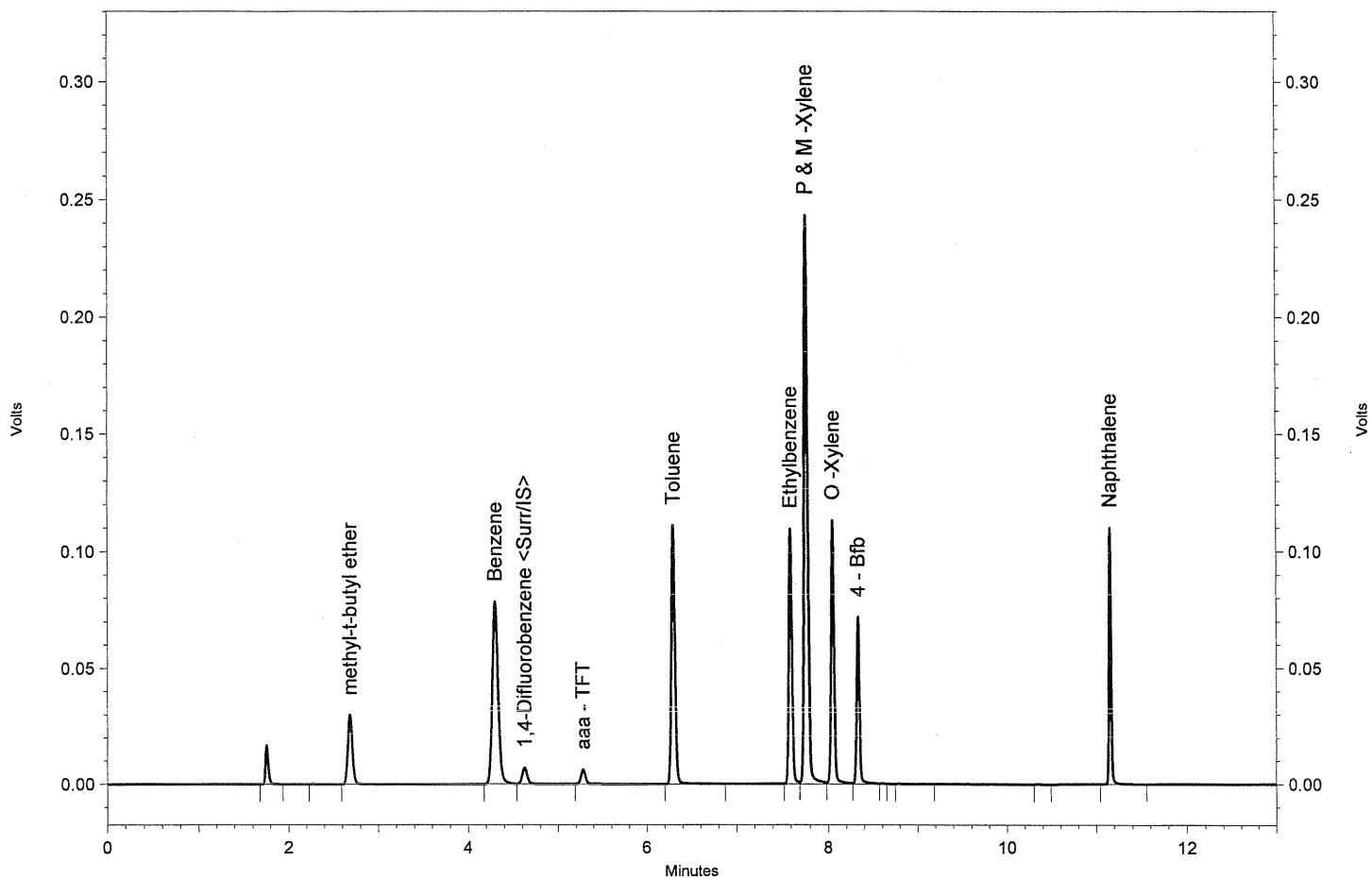
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_040.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.683	106639	240.000 CAL	ppb	BB
Benzene	4.300	355434	240.000 CAL	ppb	BV
1,4-Difluorobenzene <Surr/IS>	4.627	27065	50.000 CAL	ppb	VB
aaa - TFT	5.280	21990	0.000 CAL	ppb	BB
Toluene	6.297	316356	240.000 CAL	ppb	BV
Ethylbenzene	7.597	270205	240.000 CAL	ppb	BV
P & M -Xylene	7.767	626495	480.000 CAL	ppb	VV
O -Xylene	8.050	277696	240.000 CAL	ppb	VV
4 - Bfb	8.330	165000	125.000 CAL	ppb	VV
Naphthalene	11.153	176715	240.000 CAL	ppb	BB

SGS Environmental Services Inc.

Sample Name: BTEX 240

Date/Time: 8/22/2006 5:25:39 PM

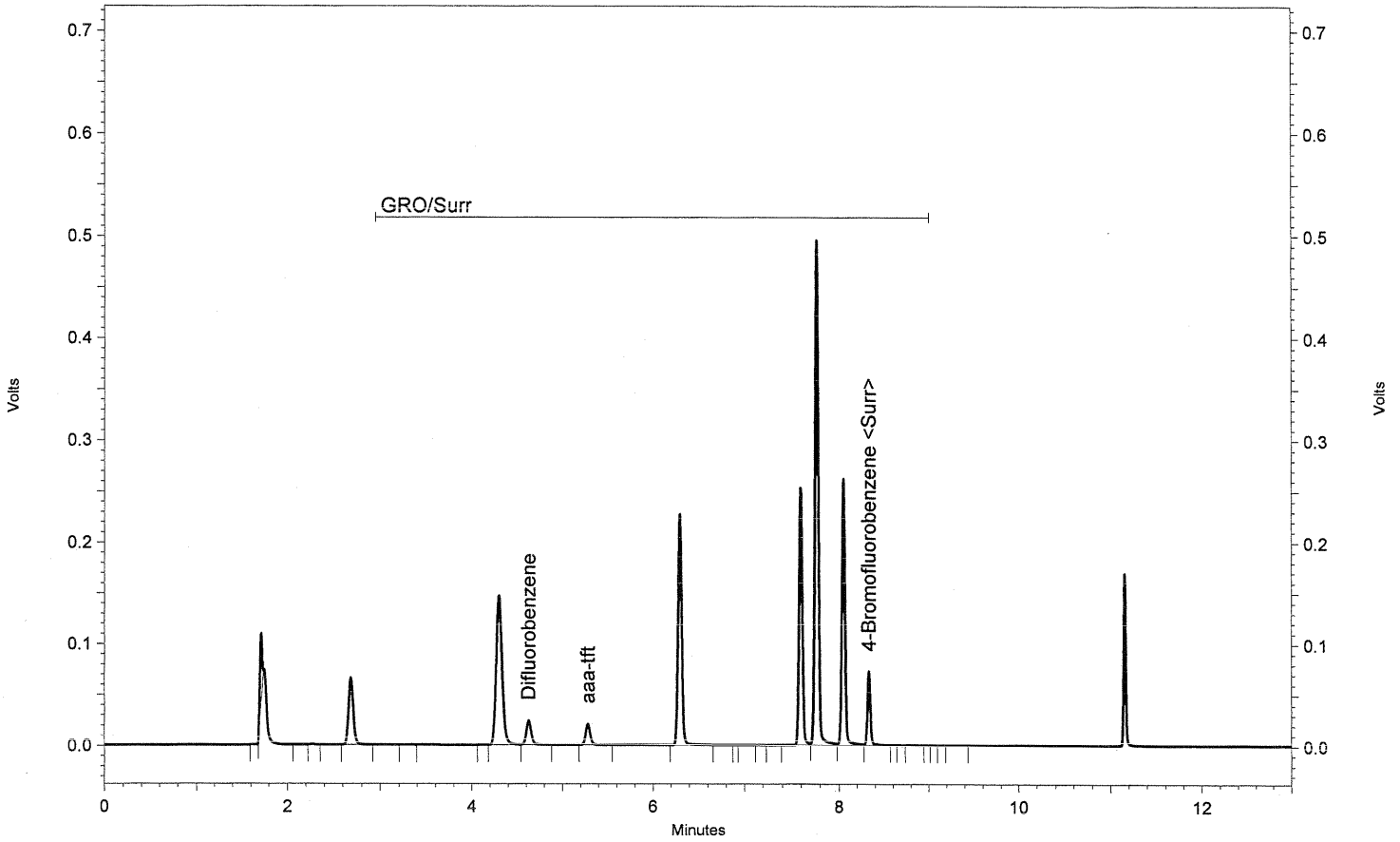
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_040.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.627	94521	50.000 CAL	ppb	LL
aaa-tft	5.280	75655	50.000 CAL	ppb	LL
4-Bromofluorobenzene <Surr>	8.330	171410	125.000 CAL	ppb	LL
GRO		3833885	0.000 CAL	ppb	
GRO/Surr		4175471	0.000 CAL	ppb	

SGS Environmental Services Inc.

Sample Name: ICV BTEX

Date/Time: 8/22/2006 6:04:21 PM

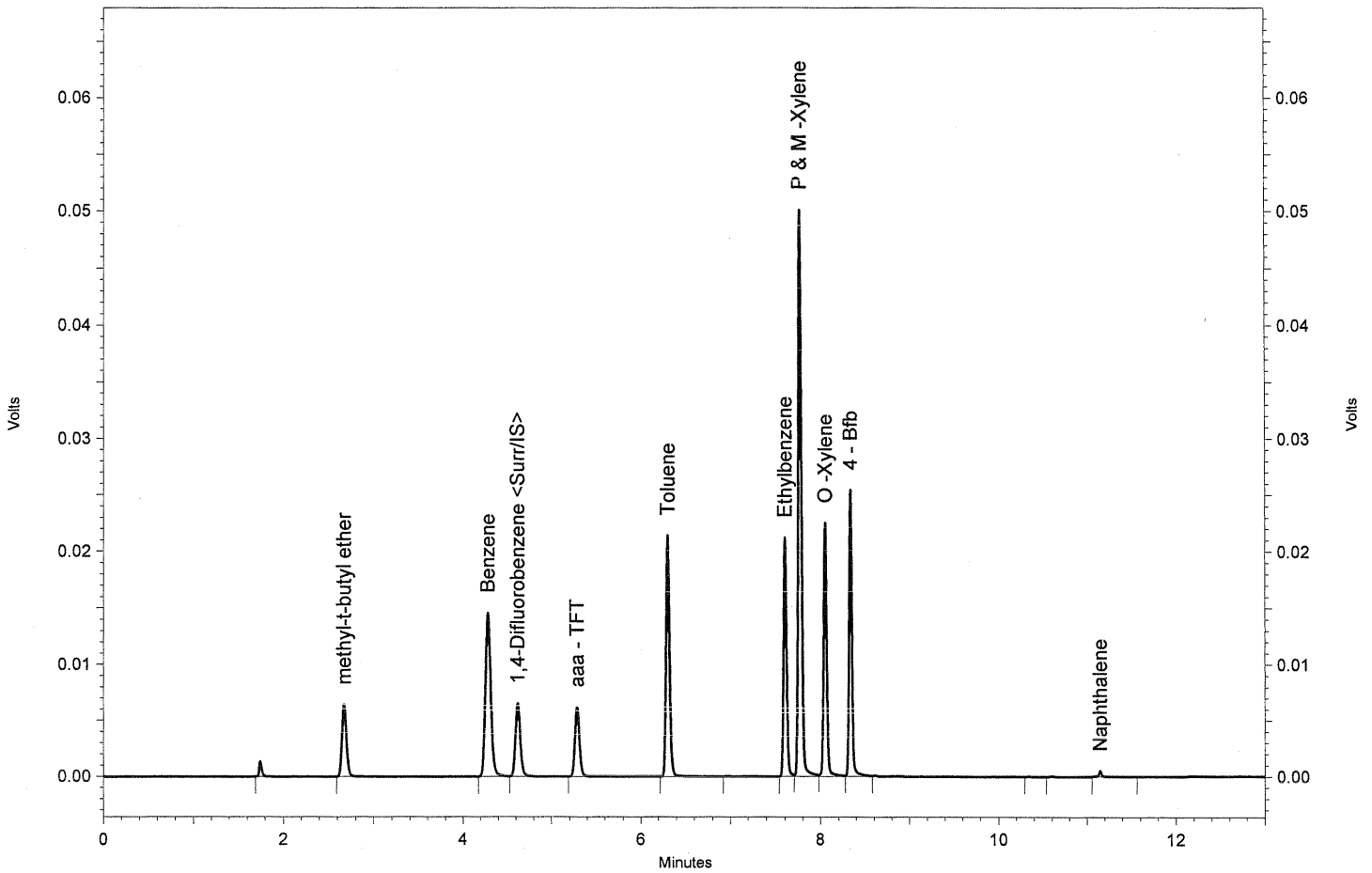
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_042.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	<i>TRC</i>	Codes	<i>%Re</i>
methyl-t-butyl ether	2.673	22149	45.051	ppb		BB	
Benzene	4.283	62955	45.990	ppb	50	BV	90
1,4-Difluorobenzene <Surr/IS>	4.620	25435	49.743	ppb		VB	
aaa - TFT	5.287	22229	0.000	ppb		BB	
Toluene	6.307	58947	46.898	ppb		BB	92
Ethylbenzene	7.607	51405	47.861	ppb		BV	94
P & M -Xylene	7.773	125687	98.932	ppb	100	VV	98
O -Xylene	8.057	55044	48.419	ppb	50	VV	96
4 - Bfb	8.337	60195	48.438	ppb	6	VV	96
Naphthalene	11.150	1265	2.199	ppb		BB	

m 8/23/06

SGS Environmental Services Inc.

Sample Name: ICV BTEX

Date/Time: 8/22/2006 6:04:21 PM

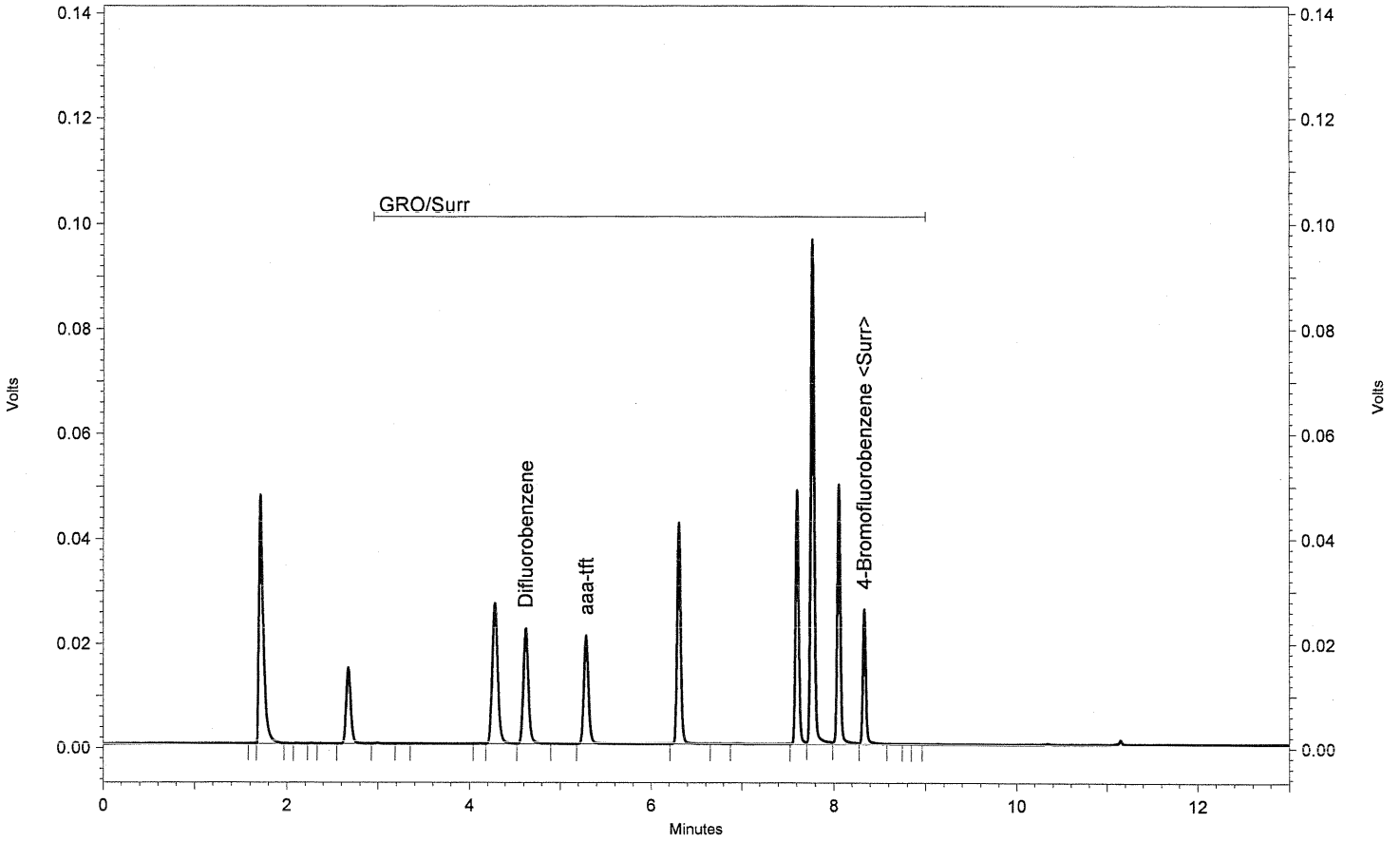
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_042.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.623	87263	49.324	ppb	LL
aaa-tft	5.287	75217	50.817	ppb	LL
4-Bromofluorobenzene <Surr>	8.337	62560	47.844	ppb	LL
GRO		723765	482.346	ppb	
GRO/Surr		948805	632.322	ppb	

SGS Environmental Services Inc.

Sample Name: ICV GRO

Date/Time: 8/22/2006 6:23:44 PM

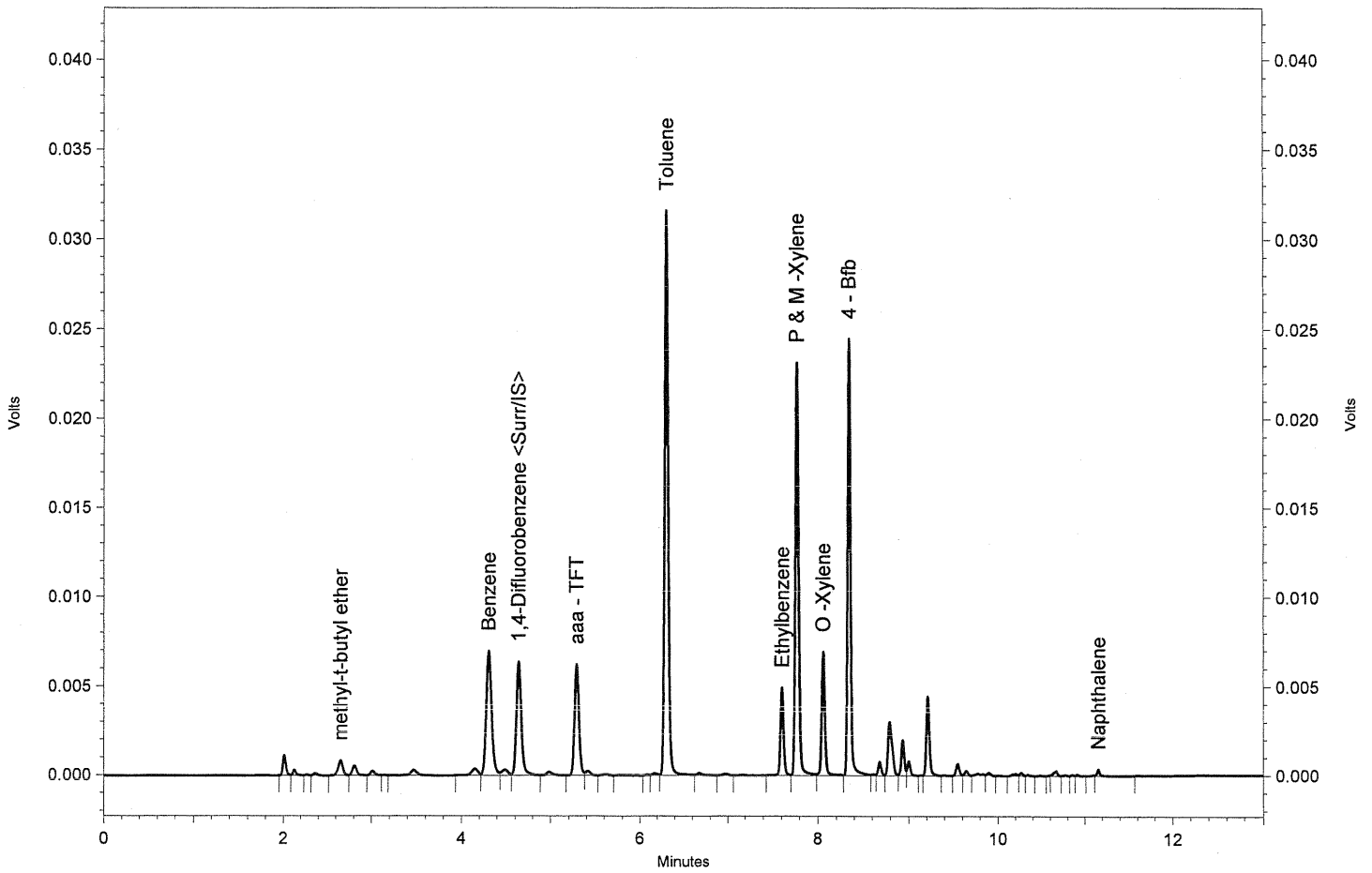
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_043.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.653	3185	6.530	ppb	BV
Benzene	4.310	30208	22.244	ppb	VV
1,4-Difluorobenzene <Surr/IS>	4.640	25168	49.614	ppb	VV
aaa - TFT	5.290	22053	0.000	ppb	VV
Toluene	6.307	88553	71.015	ppb	VV
Ethylbenzene	7.610	12416	11.652	ppb	BV
P & M -Xylene	7.773	58552	46.456	ppb	VV
O -Xylene	8.060	17345	15.379	ppb	VV
4 - Bfb	8.343	56882	46.137	ppb	VV
Naphthalene	11.157	869	1.523 LC	ppb	SB

SGS Environmental Services Inc.

Sample Name: ICV GRO

Date/Time: 8/22/2006 6:23:44 PM

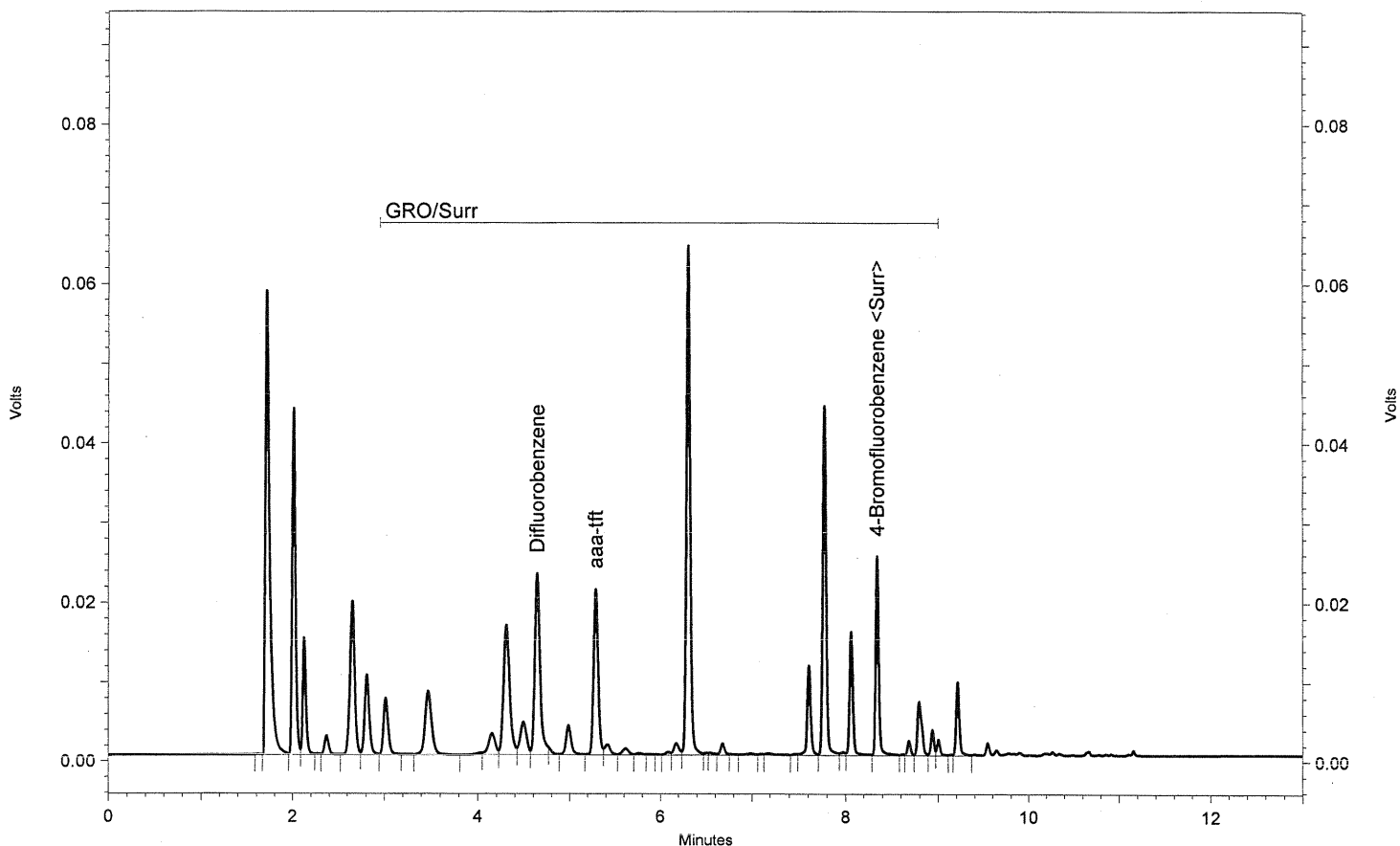
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\082106\VCA08210821_043.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	TIC	Codes	ILC
Difluorobenzene	4.643	92993	52.562	ppb		LL	
aaa-tft	5.290	74294	50.193	ppb		LL	
4-Bromofluorobenzene <Surr>	8.343	59630	45.603	ppb		LL	
GRO		633029	421.876	ppb	450		94
GRO/Surr		859946	573.103	ppb			

YMC 8/23/06

Runlog

VCA08210821P.seq

Sample ID	Date Acquired	Init.	Mult.	Instr.	Data File	aaa - TFT IS Area	4-Bromofluoro... Surrogate Area
IB	8/21/2006 10:29:11 A	MCM	1	VCA	VCA08210821_001.dat	23641	60419
IB	8/21/2006 10:48:46 A	MCM	1	VCA	VCA08210821_002.dat	22380	61522
C6-C10	8/21/2006 11:08:28 A	MCM	1	VCA	VCA08210821_003.dat	23955	61105
GRO 90	8/21/2006 6:05:09 P	MCM	1	VCA	VCA08210821_015.dat	0	307
GRO 200	8/21/2006 6:24:38 P	MCM	1	VCA	VCA08210821_016.dat	339	1274
GRO 1000	8/21/2006 6:44:06 P	MCM	1	VCA	VCA08210821_017.dat	66	5190
GRO 2400	8/21/2006 7:03:27 P	MCM	1	VCA	VCA08210821_018.dat	291	11920
GRO 4000	8/21/2006 7:23:02 P	MCM	1	VCA	VCA08210821_019.dat	448	16805
IB	8/22/2006 11:24:48 A	MCM	1	VCA	VCA08210821_025.dat	24799	62076
C6-C10	8/22/2006 11:44:23 A	MCM	1	VCA	VCA08210821_026.dat	23316	62668
BTEX .5	8/22/2006 3:29:18 P	MCM	1	VCA	VCA08210821_034.dat	22970	4607
BTEX 1.0	8/22/2006 3:48:39 P	MCM	1	VCA	VCA08210821_035.dat	22659	967
BTEX 10	8/22/2006 4:08:15 P	MCM	1	VCA	VCA08210821_036.dat	22030	17564
BTEX 40	8/22/2006 4:27:42 P	MCM	1	VCA	VCA08210821_037.dat	21630	30858
BTEX 120	8/22/2006 4:47:04 P	MCM	1	VCA	VCA08210821_038.dat	22344	66075
BTEX 200	8/22/2006 5:06:26 P	MCM	1	VCA	VCA08210821_039.dat	22872	90429
BTEX 240	8/22/2006 5:25:39 P	MCM	1	VCA	VCA08210821_040.dat	21990	171410
BLK Jcv B Tcx	8/22/2006 6:04:21 P	MCM	1	VCA	VCA08210821_042.dat	22229	62560
<i>AMS</i> <i>123</i> ICV BTEX Jcv G, b	8/22/2006 6:23:44 P	MCM	1	VCA	VCA08210821_043.dat	22053	59630

8/23/2006 7:49:40 AM

1/1 - 1 324

Section 4.3

SGS Environmental, Inc.

Analytical Quality Control Summary Data

Work Order(s):
 1064650, 1064754, 1064802, 1064803,
 1064805, 1064852, 1064875, 1064898
 III

Queue: VFC Batch: 8003
 Method: AK101, AK101 8021B, AK101/8021B

Run Date: 08/28/06 09:27 - 08/29/06 05:05

Extraction Batch(es): VXX15844, VXX15858, VXX15863,
 VXX15871, VXX15872

QC Parameter	Goals Met?		
Calibration:	Y	N	N/A
Instrument/Method Blank:	Y	N	N/A
Initial/Continuing Calibration Verifications:	Y	N	N/A
Laboratory Control Sample:	Y	N	N/A
Laboratory Control Sample Duplicate:	Y	N	N/A
Relative Percent Difference:	Y	N	N/A
Sample Duplicate:	Y	N	N/A
Matrix Spike:	Y	N	N/A
Matrix Spike Duplicate:	Y	N	N/A
Relative Percent Difference:	Y	N	N/A
Surrogates:	Y	N	N/A
Sample Holding Time:	Y	N	N/A
Internal Standards	Y	N	N/A
GCMS Tuner/DDT Sample	Y	N	N/A

See case narrative/sample comments for further information : ✓

Additional Notes:

Is there any further action necessary for any out of control events described above? Y

Should a Corrective Action be initiated? Y

I certify that except as specifically noted in this report, all statements and data appearing in this report are in conformance with the provisions of the Quality Assurance Plan (QAP) prepared by this firm and on file with the Alaska Department of Environmental Conservation.

Analyst's Signature: Dora N. Alexander

Reviewer's Signature: Sharon Pecton

Date: 8-30-06

Date: 8-30-06

SGS Environmental Services Inc.

Sample Name: IB
MCM

Date/Time: 8/28/2006 9:27:42 AM

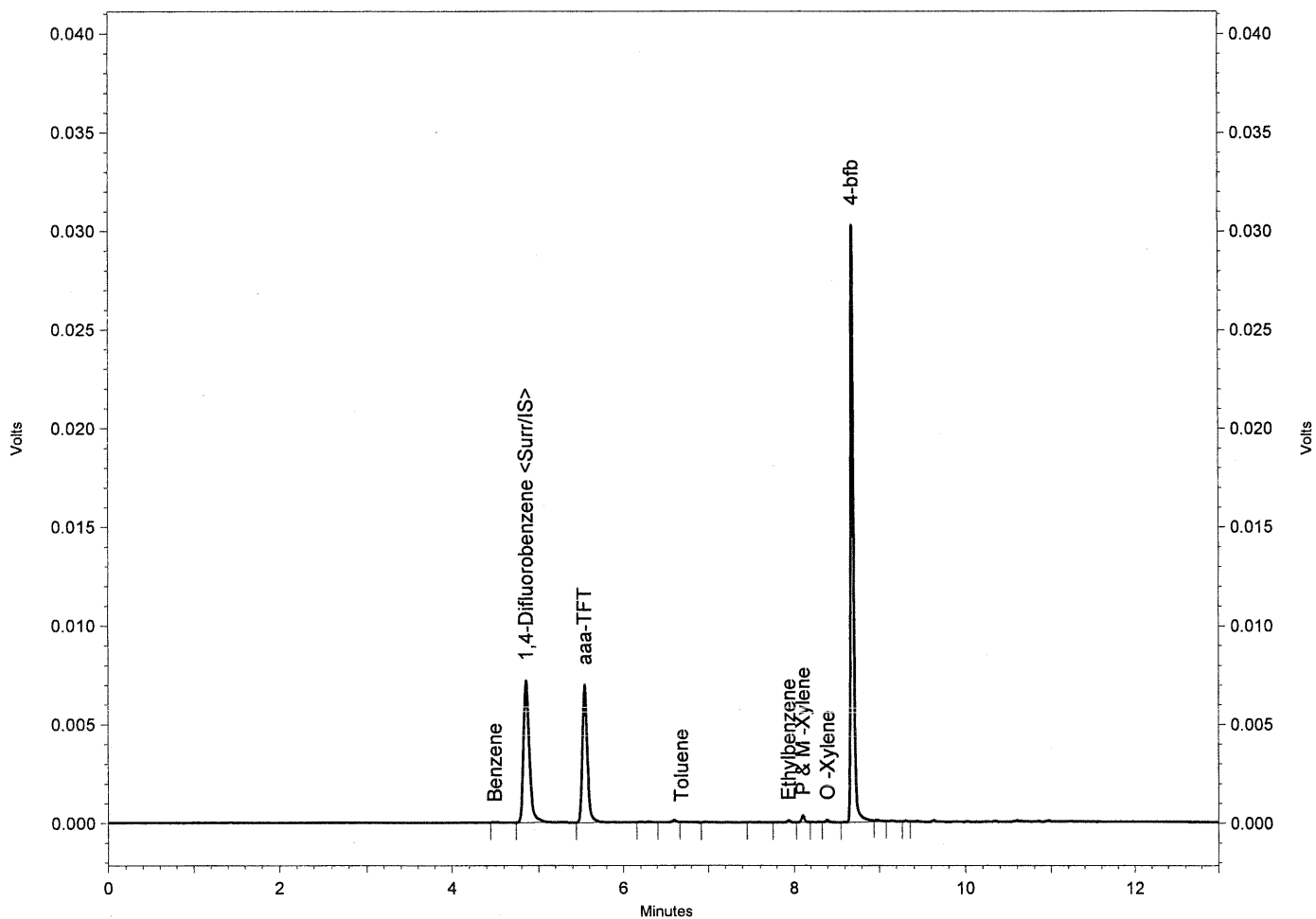
Analyst:

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_002.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.497	85	0.049 LC	ppb	BB
1,4-Difluorobenzene <Surr/IS>	4.860	34096	48.067	ppb	BB
aaa-TFT	5.547	28663	0.000	ppb	BB
Toluene	6.683	140	0.087 LC	ppb	VB
Ethylbenzene	7.937	330	0.257 LC	ppb	BB
P & M -Xylene	8.107	968	0.657 LC	ppb	BV
O -Xylene	8.400	379	0.275 LC	ppb	SB
4-bfb	8.690	73172	51.073	ppb	BV

SGS Environmental Services Inc.

Sample Name: IB
MCM

Date/Time: 8/28/2006 9:27:42 AM

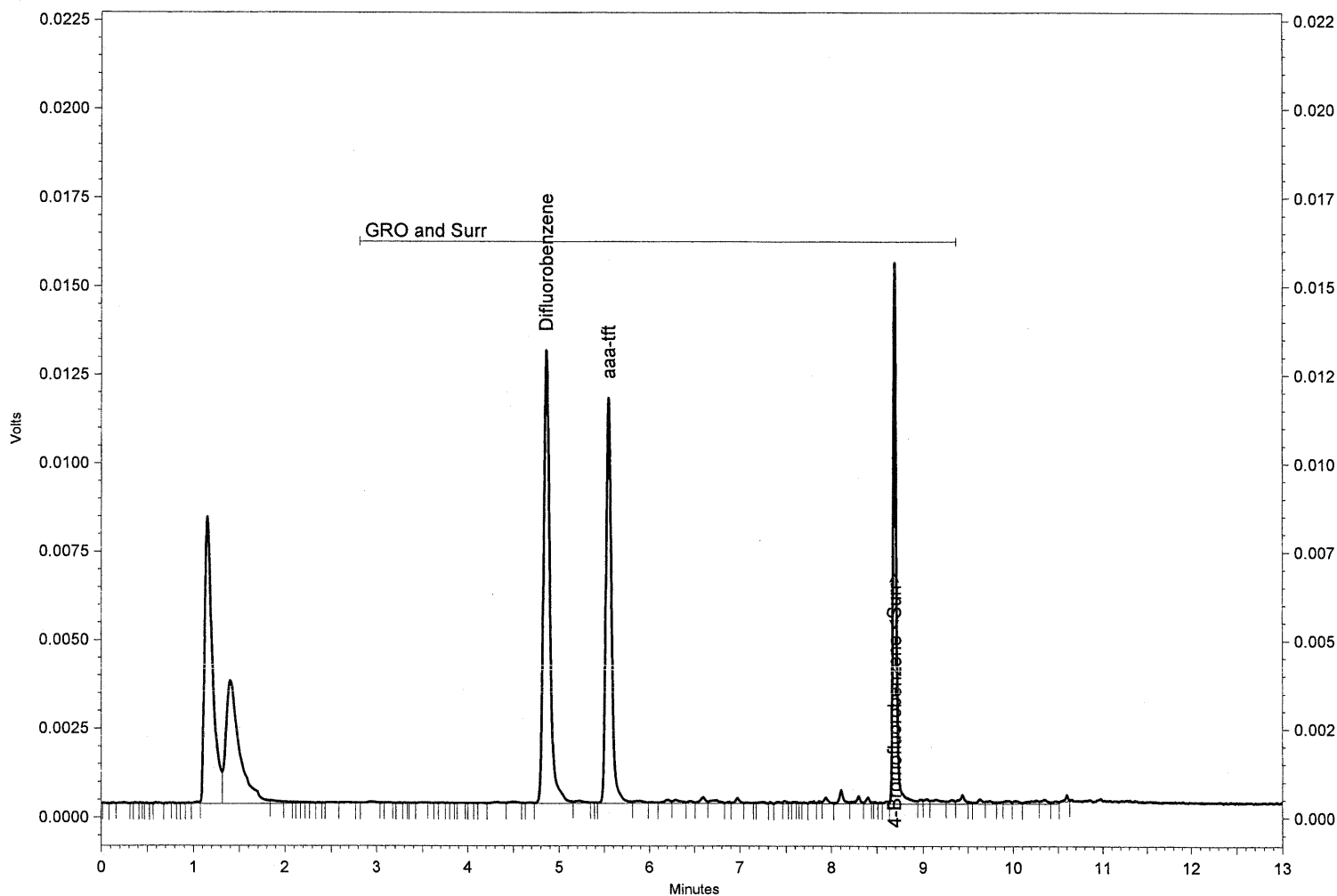
Analyst:

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_002.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.860	62007	47.099	ppb	LL
aaa-tft	5.547	48095	47.464	ppb	LL
4-Bromofluorobenzene <Surr>	8.693	37817	42.615	ppb	LL
GRO		14454	15.216 LC	ppb	
GRO and Surr		162373	170.938	ppb	

SGS Environmental Services Inc.

Sample Name: C6-C10

Date/Time: 8/28/2006 9:53:04 AM

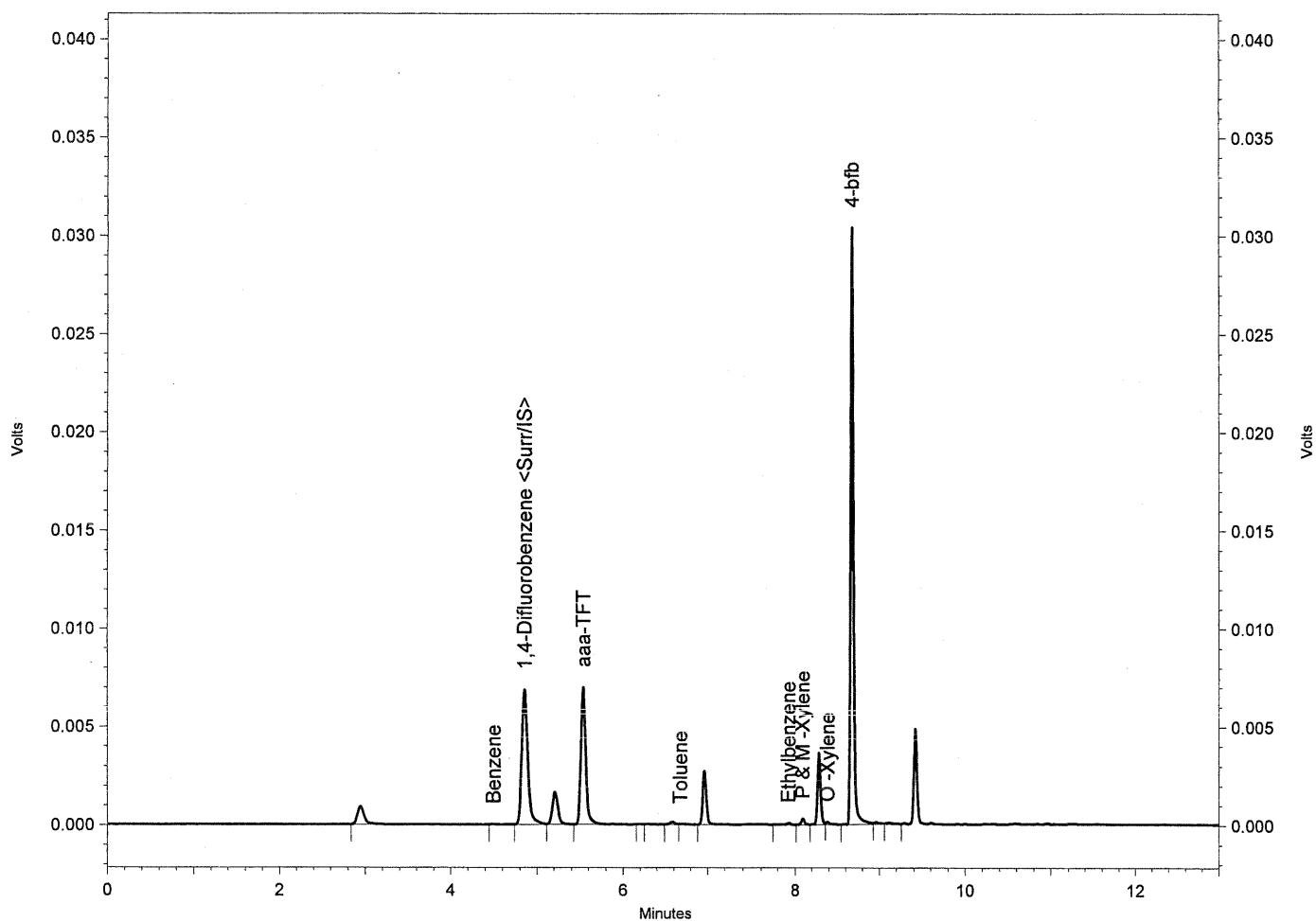
Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_003.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.500	62	0.036 LC	ppb	BB
1,4-Difluorobenzene <Surr/IS>	4.857	33156	46.869	ppb	BV
aaa-TFT	5.540	28585	0.000	ppb	BB
Toluene	6.680	123	0.076 LC	ppb	VB
Ethylbenzene	7.927	283	0.221 LC	ppb	BB
P & M -Xylene	8.097	805	0.548 LC	ppb	BV
O -Xylene	8.387	445	0.323 LC	ppb	VB
4-bfb	8.680	73637	51.538	ppb	BV

SGS Environmental Services Inc.

Sample Name: C6-C10

Date/Time: 8/28/2006 9:53:04 AM

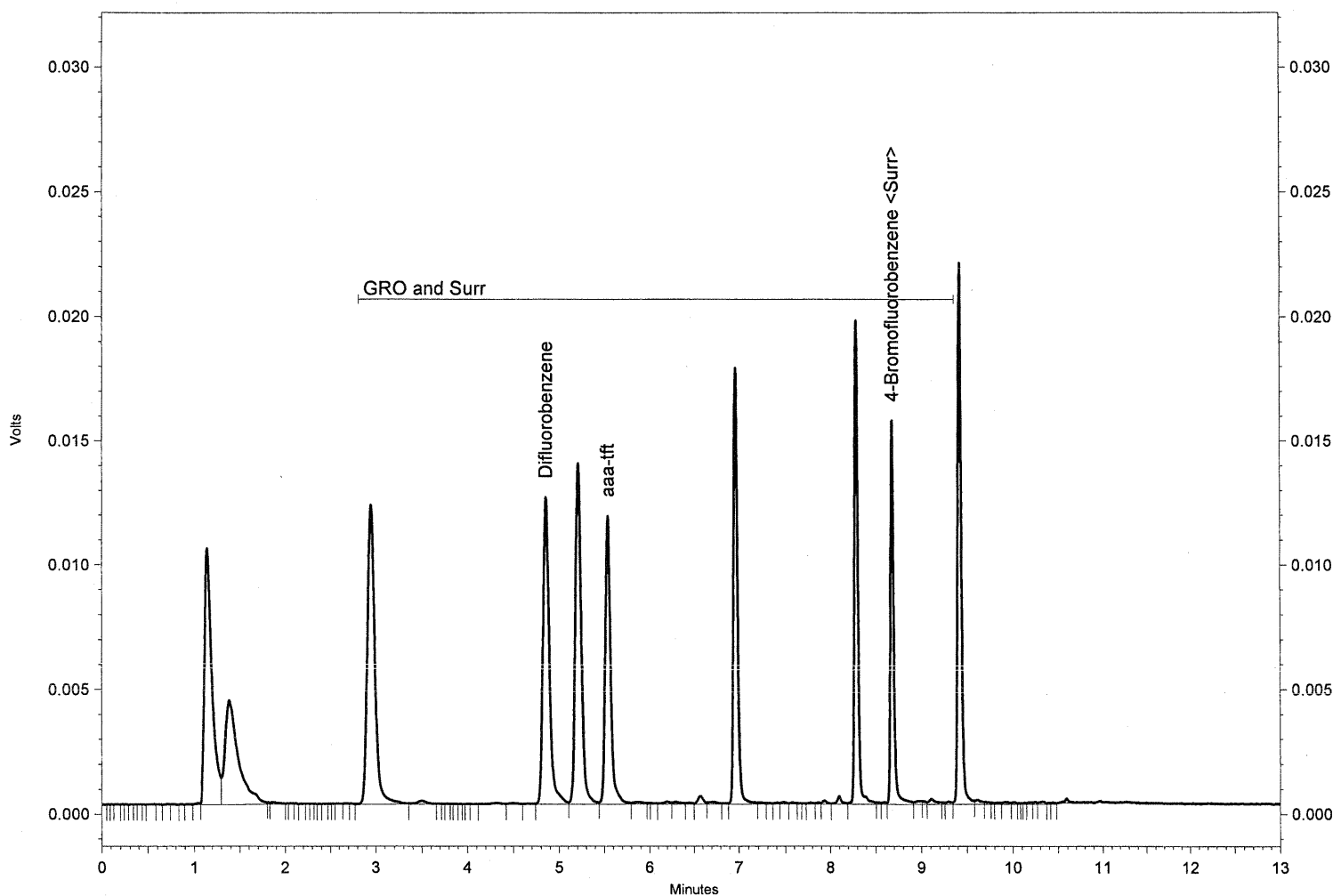
Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_003.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.857	60641	46.062	ppb	LL
aaa-tft	5.540	49014	48.371	ppb	LL
4-Bromofluorobenzene <Surr>	8.683	38621	43.521	ppb	LL
GRO		248692	261.810	ppb	
GRO and Surr		396968	417.907	ppb	

SGS Environmental Services Inc.

Sample Name: CCV2

Date/Time: 8/28/2006 10:18:24 AM

Analyst:

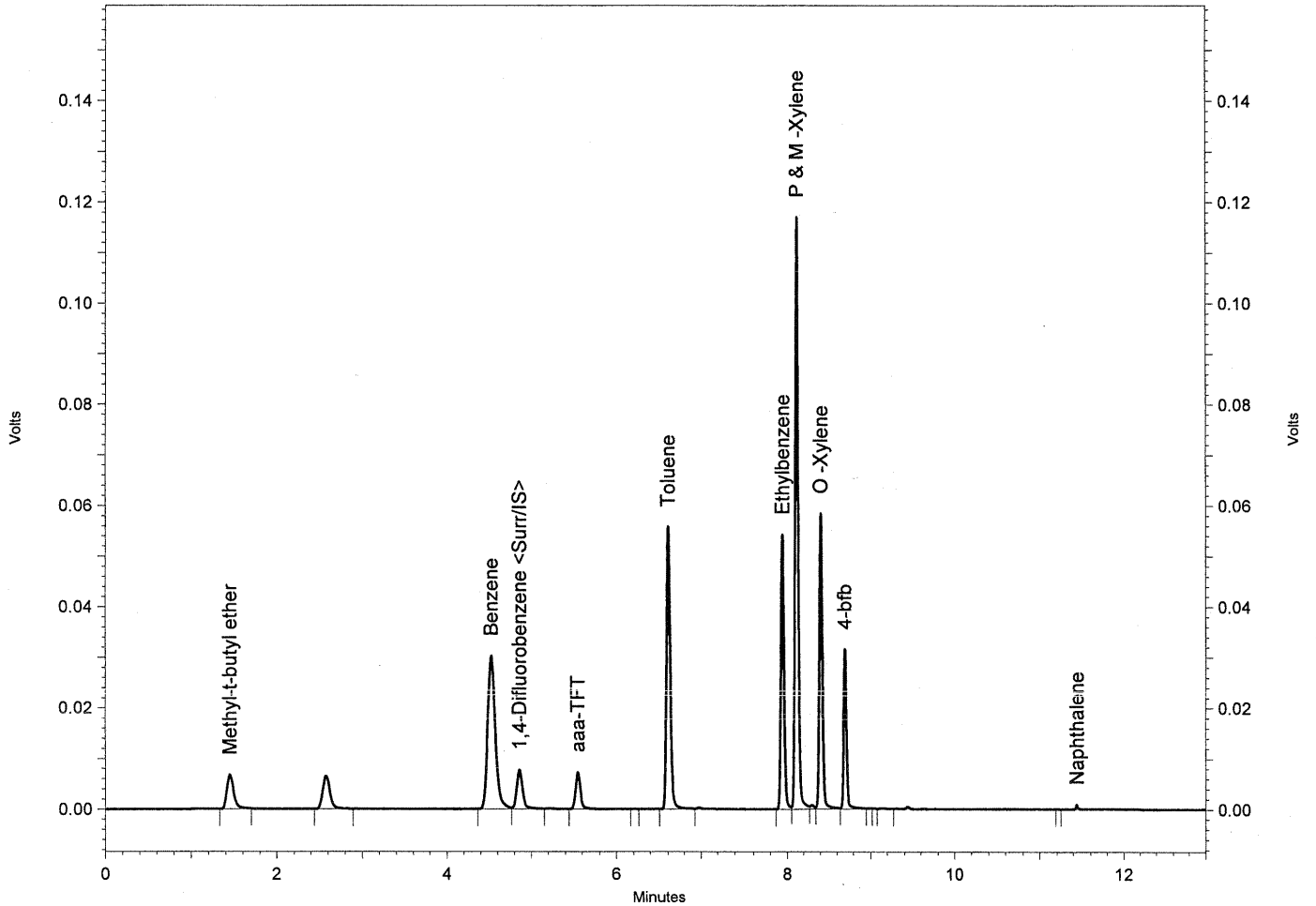
MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_004.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Methyl-t-butyl ether	1.450	39273	8180.630 HC	ppb	BS
Benzene	4.523	194646	108.996	ppb	BV
1,4-Difluorobenzene <Surr/IS>	4.860	37533	51.309	ppb	VV
aaa-TFT	5.550	29559	0.000	ppb	VB
Toluene	6.610	173263	104.176	ppb	BV
Ethylbenzene	7.947	140006	105.811	ppb	BV
P & M -Xylene	8.117	312300	205.461	ppb	VV
O -Xylene	8.410	147322	103.470	ppb	VV
4-bfb	8.697	77291	52.313	ppb	VV
Naphthalene	11.443	1782	9.287	ppb	SB

SGS Environmental Services Inc.

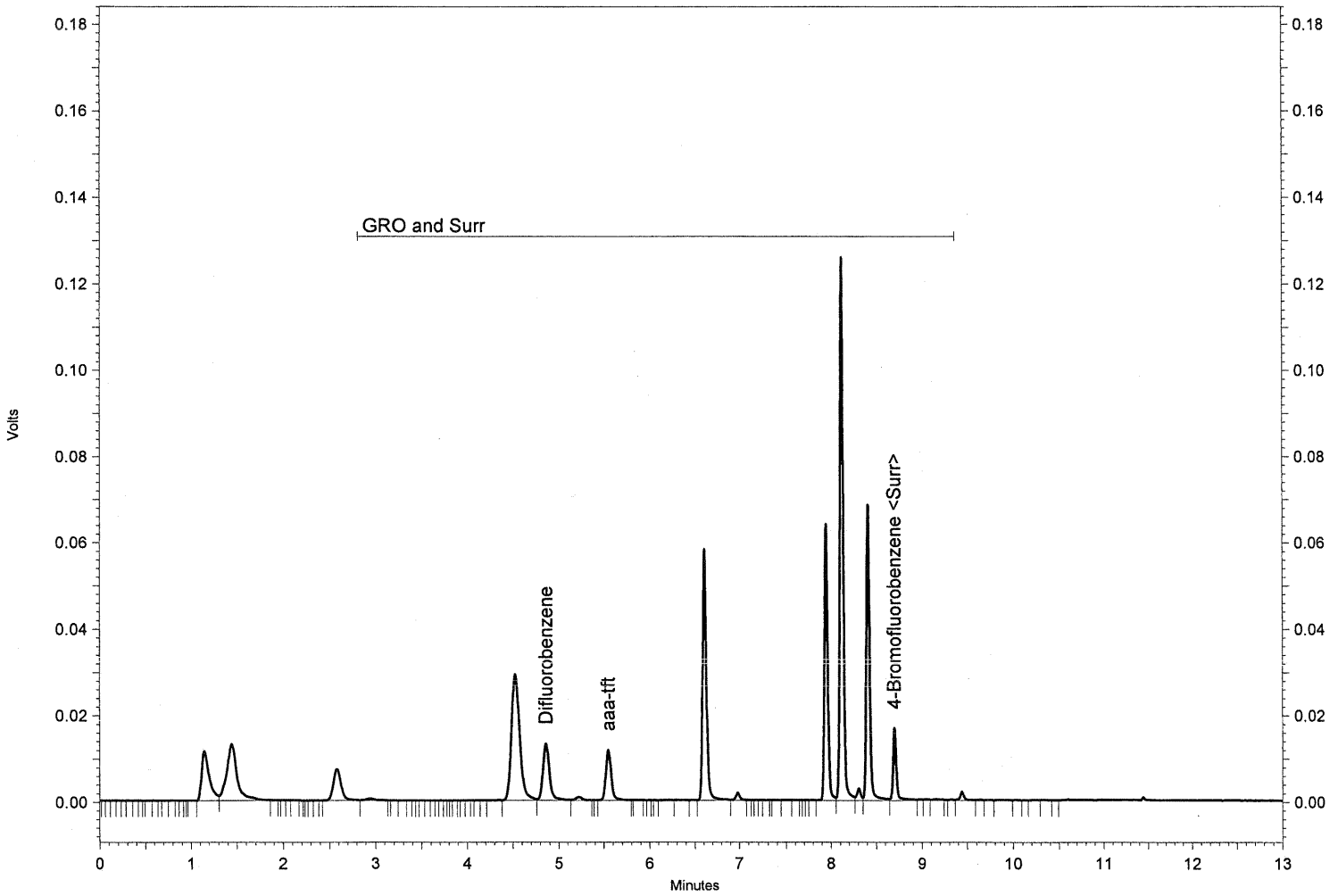
Sample Name: CCV2
MCM

Date/Time: 8/28/2006 10:18:24 AM

Analyst:

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met
Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_004.dat
FID

Dilution: 1



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.863	64858	49.265	ppb	LL
aaa-tft	5.550	49197	48.551	ppb	LL
4-Bromofluorobenzene <Surr>	8.700	43735	49.283	ppb	LL
GRO		1063561	1119.661	ppb	
GRO and Surr		1221351	1285.773	ppb	

SGS Environmental Services Inc.

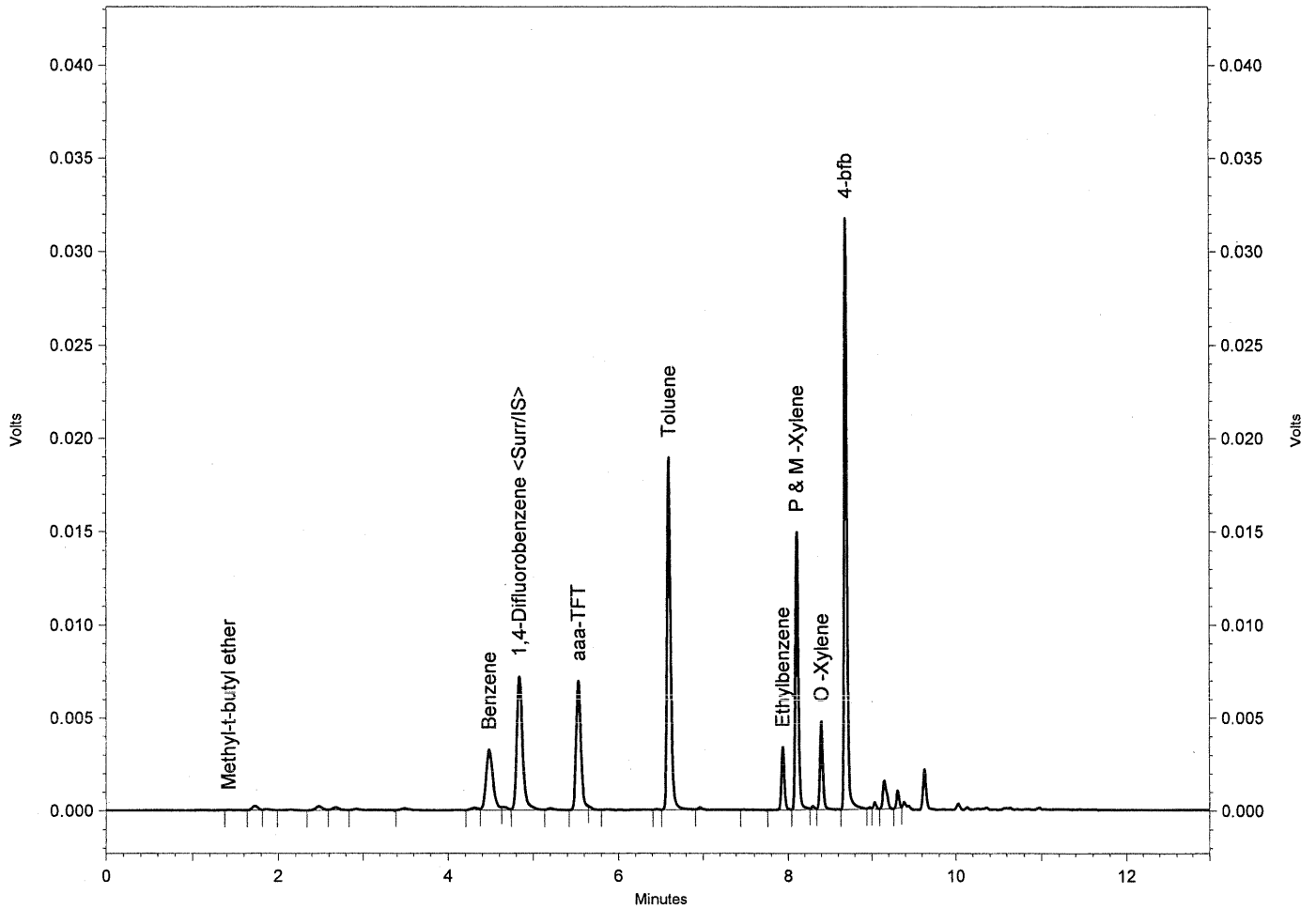
Sample Name: CCV
MCM

Date/Time: 8/28/2006 10:43:52 AM

Analyst:

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met
Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_005.dat
PID

Dilution: 1



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Methyl-t-butyl ether	1.420	115	25.146	ppb	BB
Benzene	4.483	18372	10.799	ppb	VS
1,4-Difluorobenzene <Surr/IS>	4.840	34725	49.830	ppb	VV
aaa-TFT	5.533	28159	0.000	ppb	BS
Toluene	6.597	58024	36.622	ppb	VV
Ethylbenzene	7.937	8603	6.825	ppb	BV
P & M -Xylene	8.107	38358	26.490	ppb	VV
O -Xylene	8.403	11663	8.599	ppb	VB
4-bfb	8.693	76580	54.408	ppb	BV

SGS Environmental Services Inc.

Sample Name: CCV
MCM

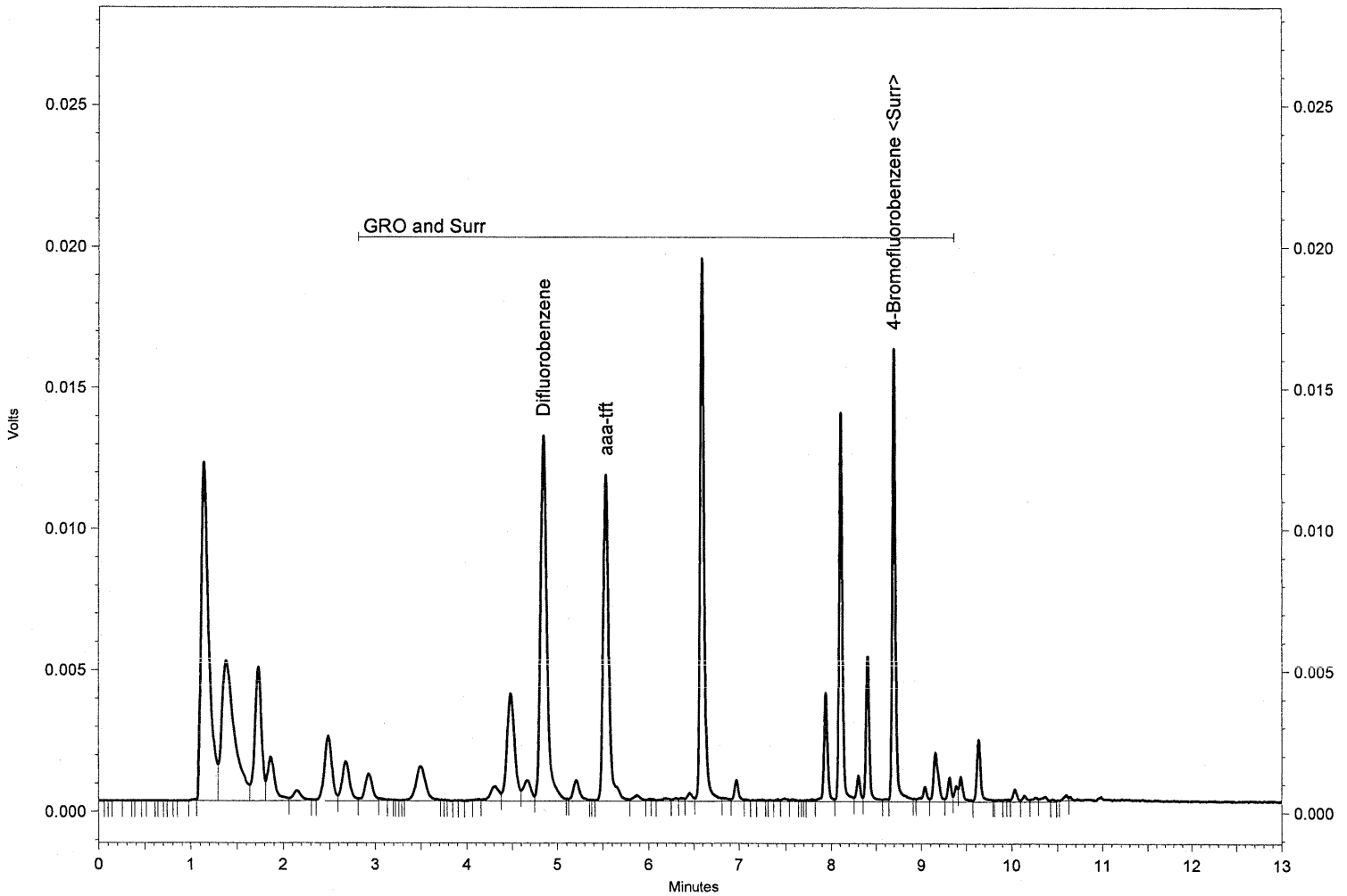
Date/Time: 8/28/2006 10:43:52 AM

Analyst:

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_005.dat
FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.843	64467	48.968	ppb	LL
aaa-tft	5.537	49400	48.752	ppb	LL
4-Bromofluorobenzene <Surr>	8.697	39655	44.686	ppb	LL
GRO		195248	205.547	ppb	
GRO and Surr		348770	367.167	ppb	

SGS Environmental Services Inc.

Sample Name: MB H2O

Date/Time: 8/28/2006 11:34:18 AM

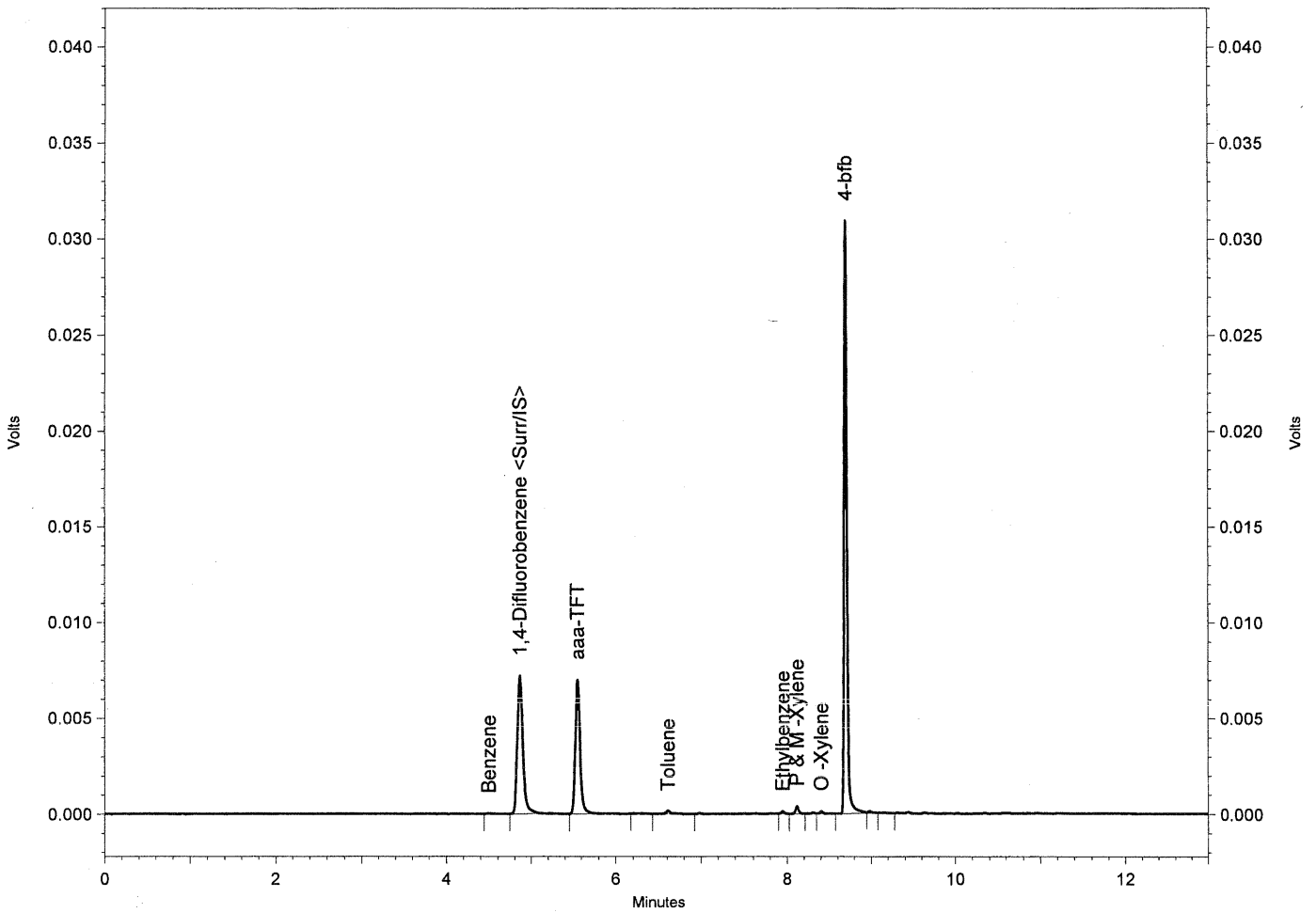
Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_007.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.497	139	0.080 LC	ppb	BB
1,4-Difluorobenzene <Surr/IS>	4.867	34141	47.942	ppb	BB
aaa-TFT	5.553	28776	0.000	ppb	BB
Toluene	6.613	642	0.397 LC	ppb	BB
Ethylbenzene	7.950	324	0.252 LC	ppb	BB
P & M-Xylene	8.117	1041	0.704 LC	ppb	BV
O-Xylene	8.410	410	0.296 LC	ppb	VB
4-bfb	8.700	73981	51.435	ppb	BV

SGS Environmental Services Inc.

Sample Name: MB H2O

Date/Time: 8/28/2006 11:34:18 AM

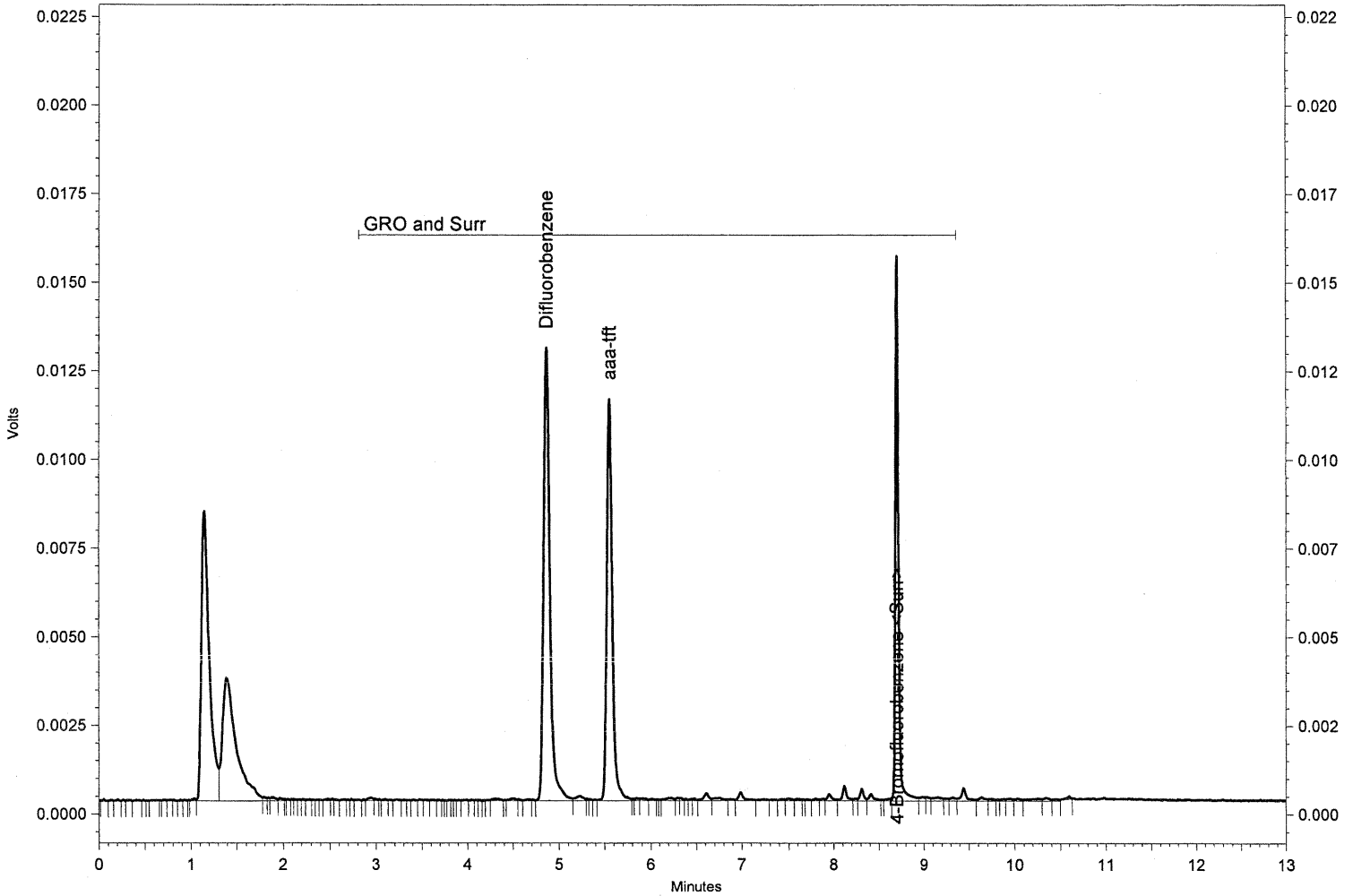
Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_007.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.867	62299	47.321	ppb	LL
aaa-tft	5.557	47893	47.265	ppb	LL
4-Bromofluorobenzene <Surr>	8.703	37913	42.723	ppb	LL
GRO		18027	18.978 LC	ppb	
GRO and Surr		166132	174.895	ppb	

SGS Environmental Services Inc.

Sample Name: MB SOIL

Date/Time: 8/28/2006 11:59:47 AM

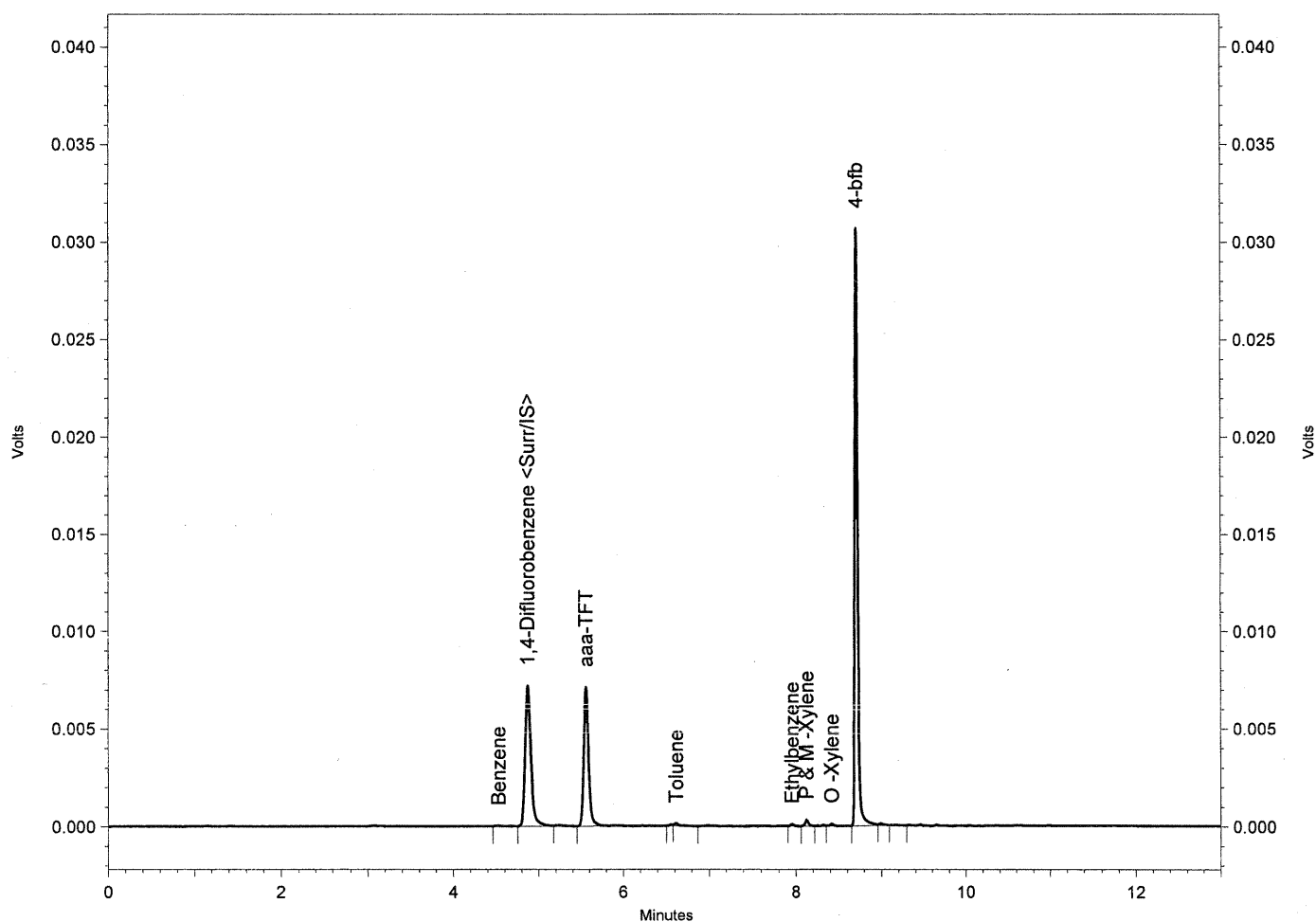
Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_008.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.527	87	0.050 LC	ppb	BB
1,4-Difluorobenzene <Surr/IS>	4.873	34215	47.558	ppb	BV
aaa-TFT	5.560	29071	0.000	ppb	BB
Toluene	6.620	590	0.361 LC	ppb	SB
Ethylbenzene	7.957	268	0.206 LC	ppb	BB
P & M -Xylene	8.127	877	0.587 LC	ppb	BV
O -Xylene	8.420	376	0.269 LC	ppb	VB
4-bfb	8.710	74204	51.066	ppb	BV

SGS Environmental Services Inc.

Sample Name: MB SOIL

Date/Time: 8/28/2006 11:59:47 AM

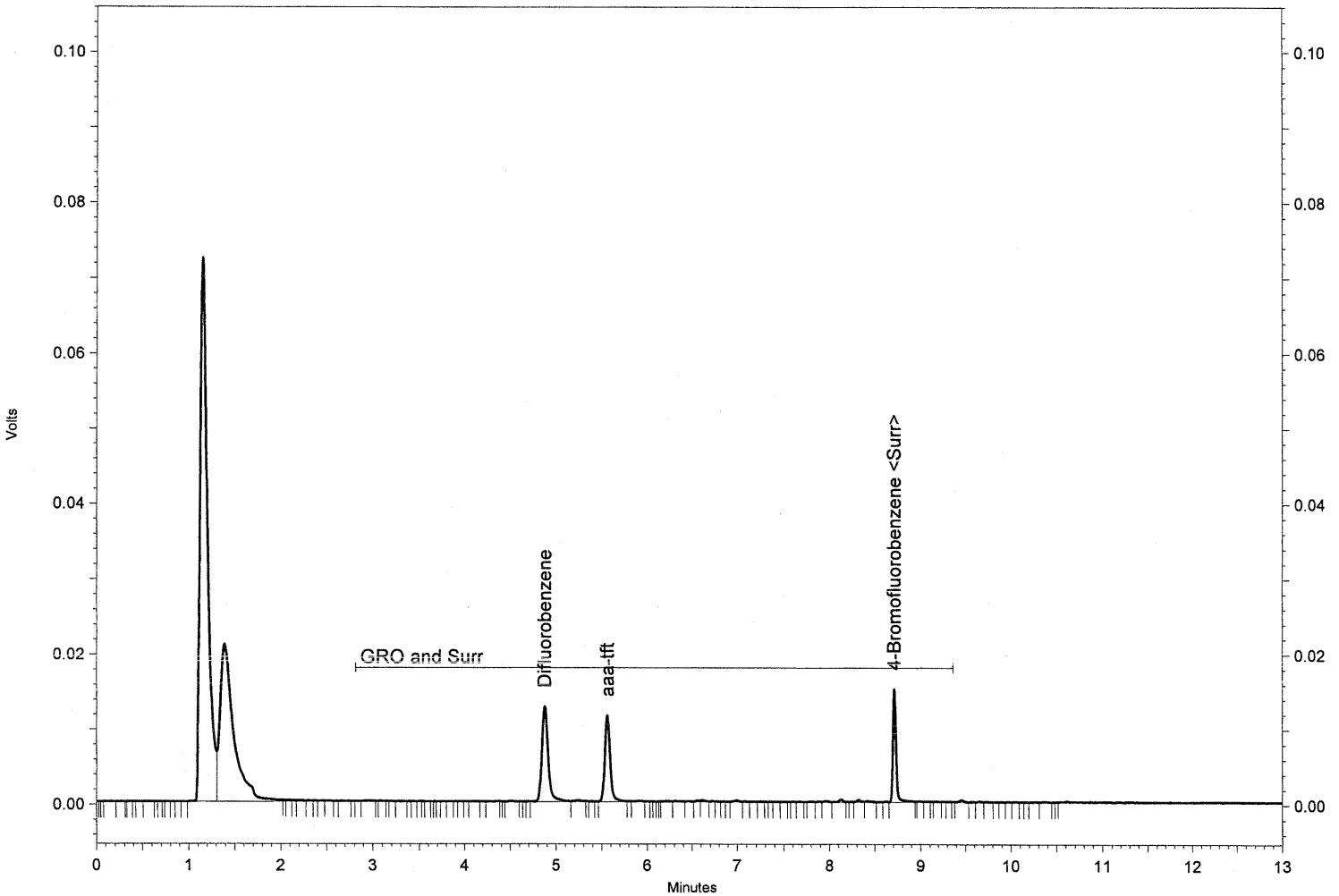
Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_008.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.877	61848	46.979	ppb	LL
aaa-tft	5.563	48006	47.376	ppb	LL
4-Bromofluorobenzene <Surr>	8.713	37413	42.159	ppb	LL
GRO		20984	22.091 LC	ppb	
GRO and Surr		168251	177.126	ppb	

SGS Environmental Services Inc.

Sample Name: LCS BTEX SOIL

Date/Time: 8/28/2006 12:24:55 PM

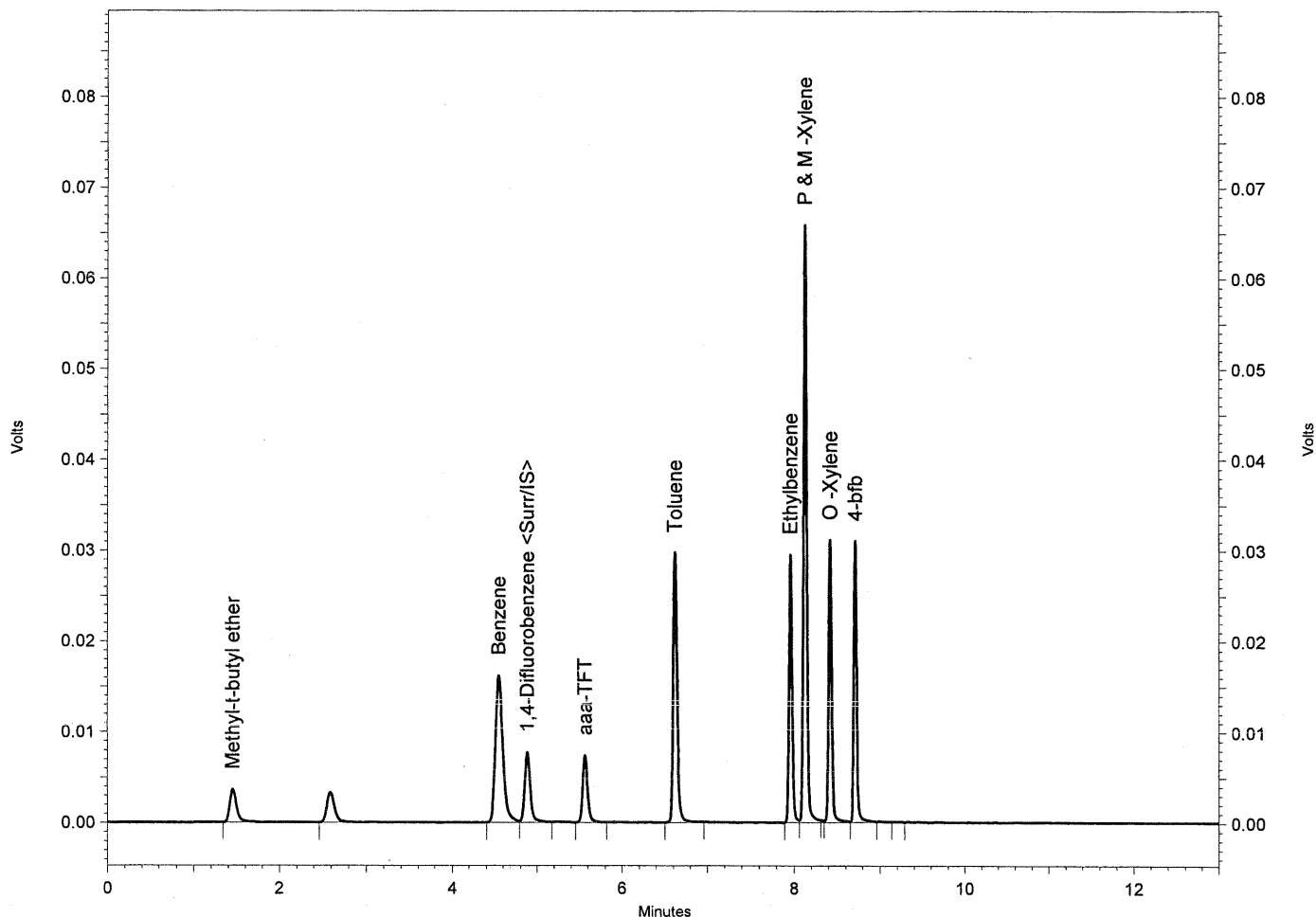
Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_009.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Methyl-t-butyl ether	1.453	20944	4254.995 HC	ppb	BB
Benzene	4.550	101778	55.586	ppb	BV
1,4-Difluorobenzene <Surr/IS>	4.883	37211	49.613	ppb	VV
aaa-TFT	5.567	30307	0.000	ppb	VV
Toluene	6.623	92468	54.225	ppb	BV
Ethylbenzene	7.960	75593	55.720	ppb	BV
P & M -Xylene	8.130	174834	112.184	ppb	VS
O -Xylene	8.423	79032	54.138	ppb	VV
4-bfb	8.713	76146	50.266	ppb	VV

SGS Environmental Services Inc.

Sample Name: LCS BTEX SOIL

Date/Time: 8/28/2006 12:24:55 PM

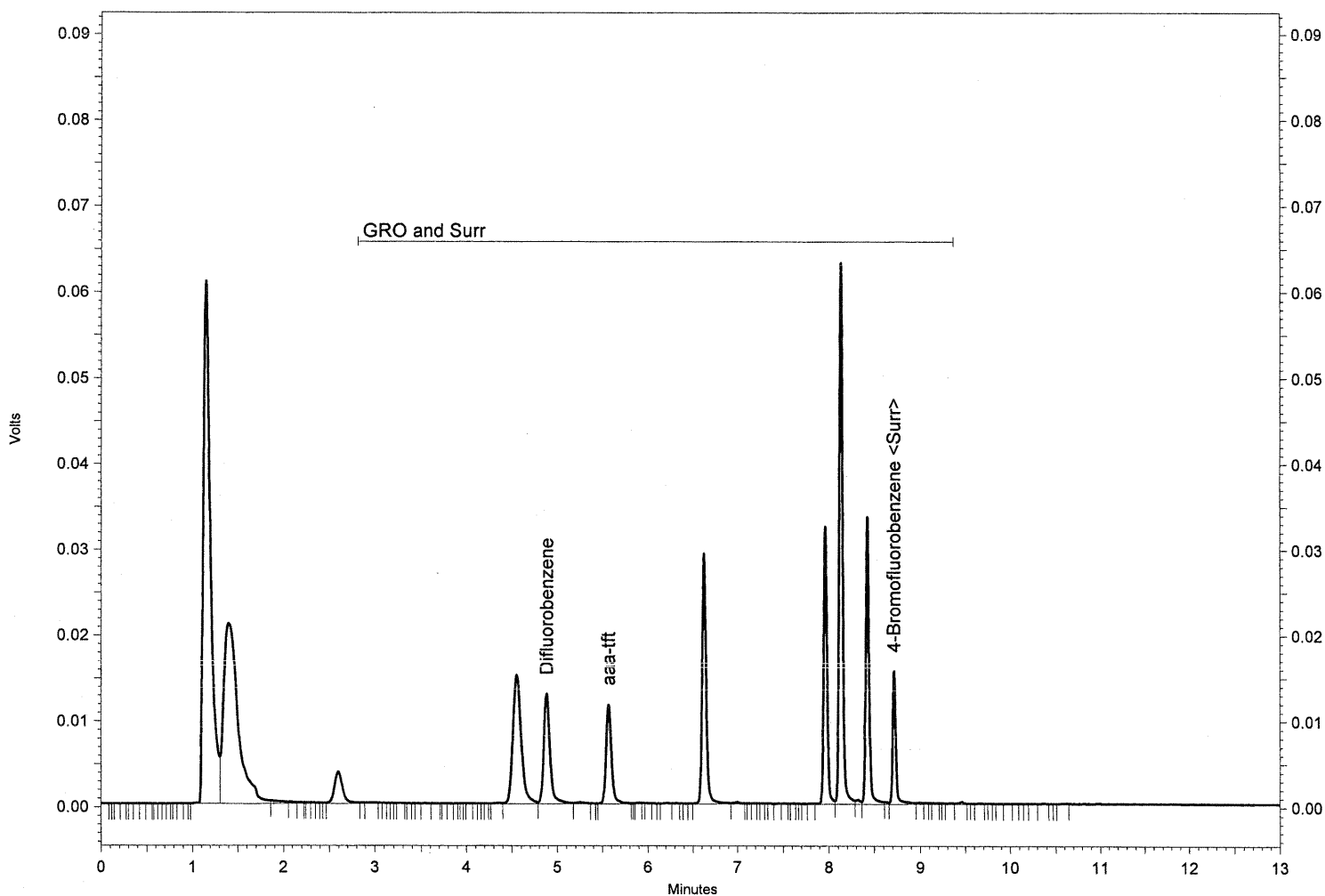
Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_009.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.883	62261	47.292	ppb	LL
aaa-tft	5.570	48244	47.611	ppb	LL
4-Bromofluorobenzene <Surr>	8.717	39563	44.582	ppb	LL
GRO		538087	566.469	ppb	
GRO and Surr		688155	724.453	ppb	

SGS Environmental Services Inc.

Sample Name: LCS GRO SOIL

Date/Time: 8/28/2006 12:50:05 PM

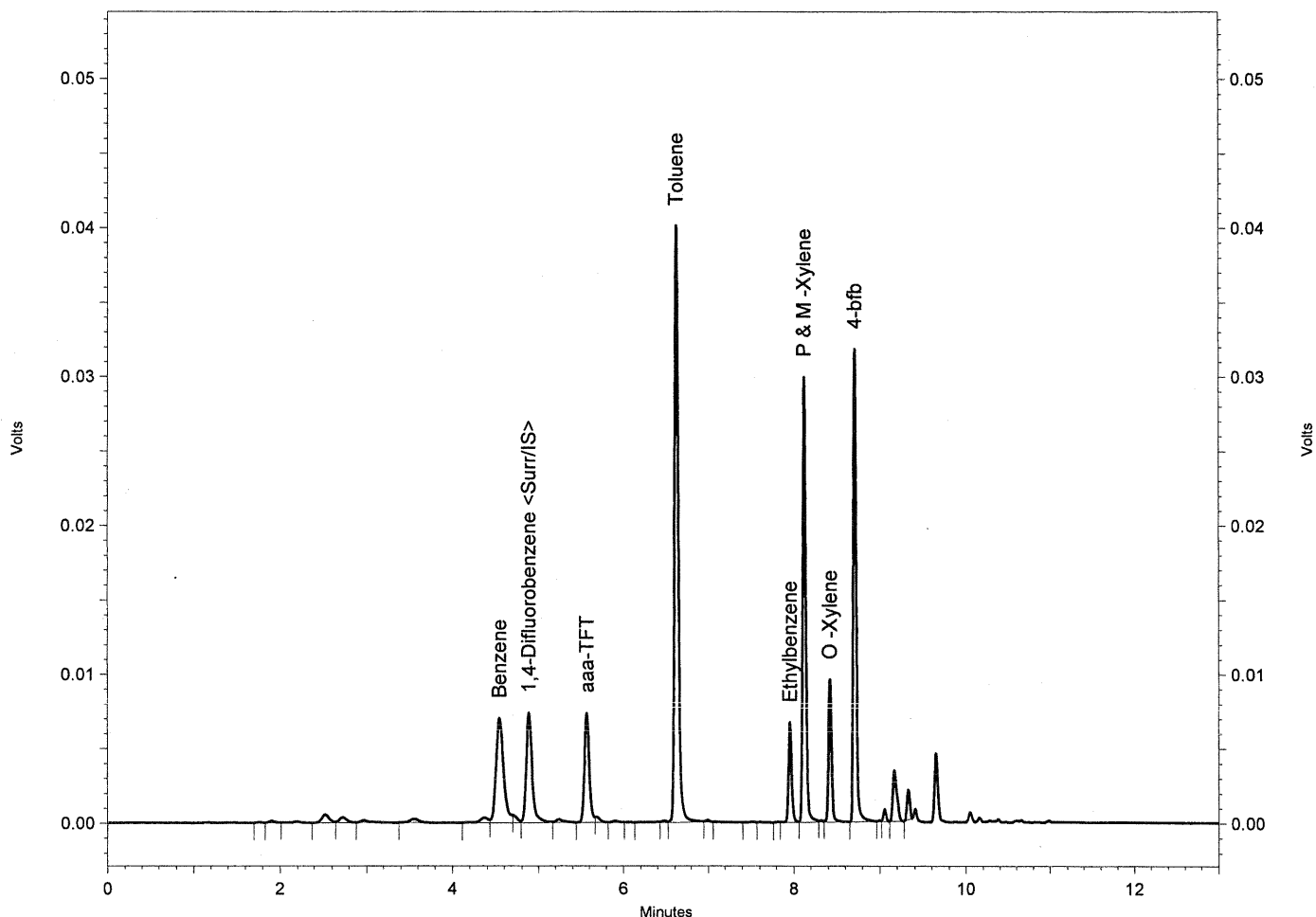
Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_010.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.547	43266	24.150	ppb	VS
1,4-Difluorobenzene <Surr/IS>	4.887	36056	49.132	ppb	VV
aaa-TFT	5.570	29654	0.000	ppb	VS
Toluene	6.623	124627	74.693	ppb	VV
Ethylbenzene	7.960	17019	12.821	ppb	SV
P & M -Xylene	8.127	78009	51.157	ppb	VS
O -Xylene	8.423	23729	16.612	ppb	VB
4-bfb	8.713	76102	51.343	ppb	BV

SGS Environmental Services Inc.

Sample Name: LCS GRO SOIL

Date/Time: 8/28/2006 12:50:05 PM

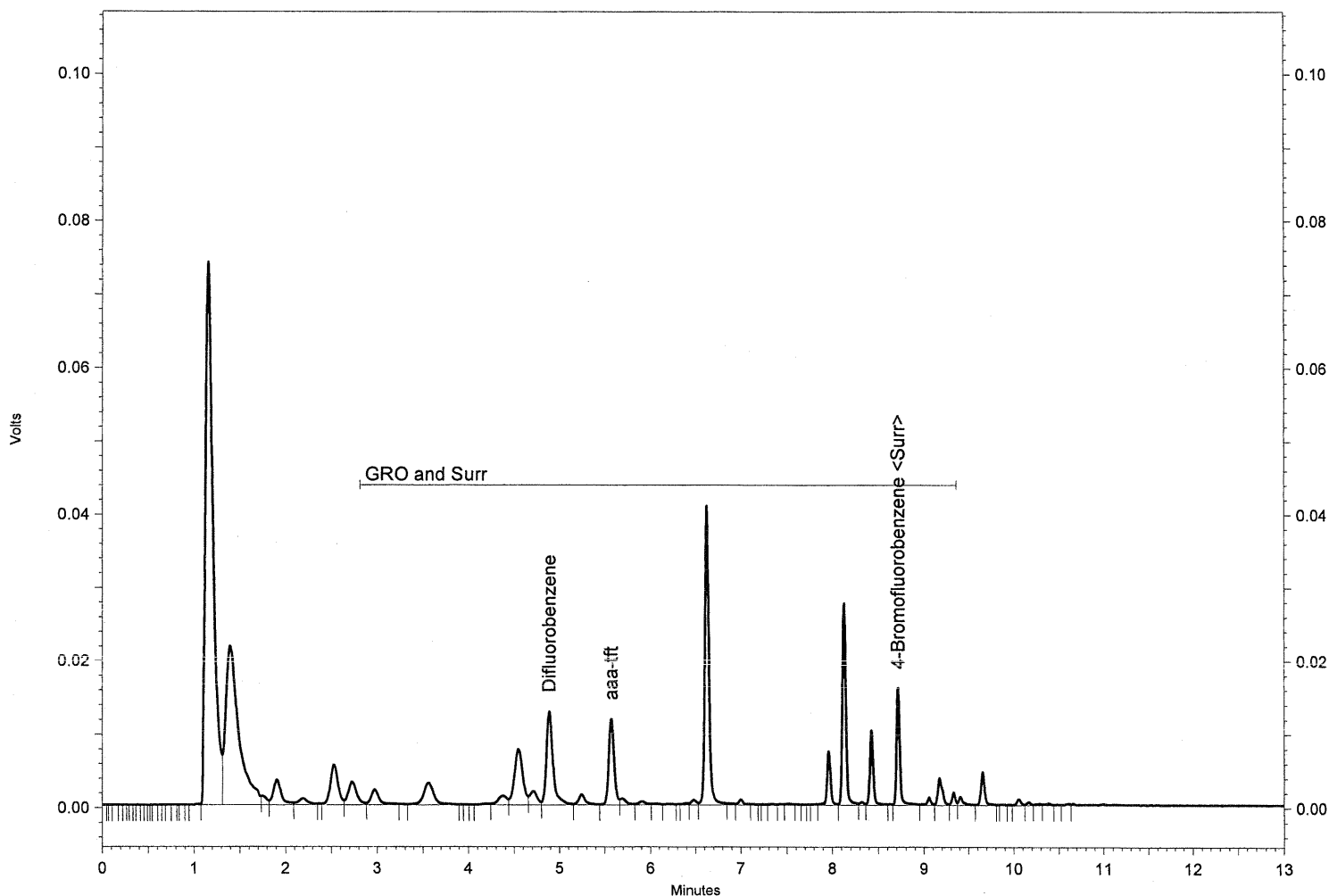
Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_010.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.887	65135	49.475	ppb	LL
aaa-tft	5.570	47749	47.122	ppb	LL
4-Bromofluorobenzene <Surr>	8.717	39694	44.730	ppb	LL
GRO		404384	425.714	ppb	
GRO and Surr		556962	586.340	ppb	

SGS Environmental Services Inc.

Sample Name: LCS GRO H2O

Date/Time: 8/28/2006 1:15:17 PM

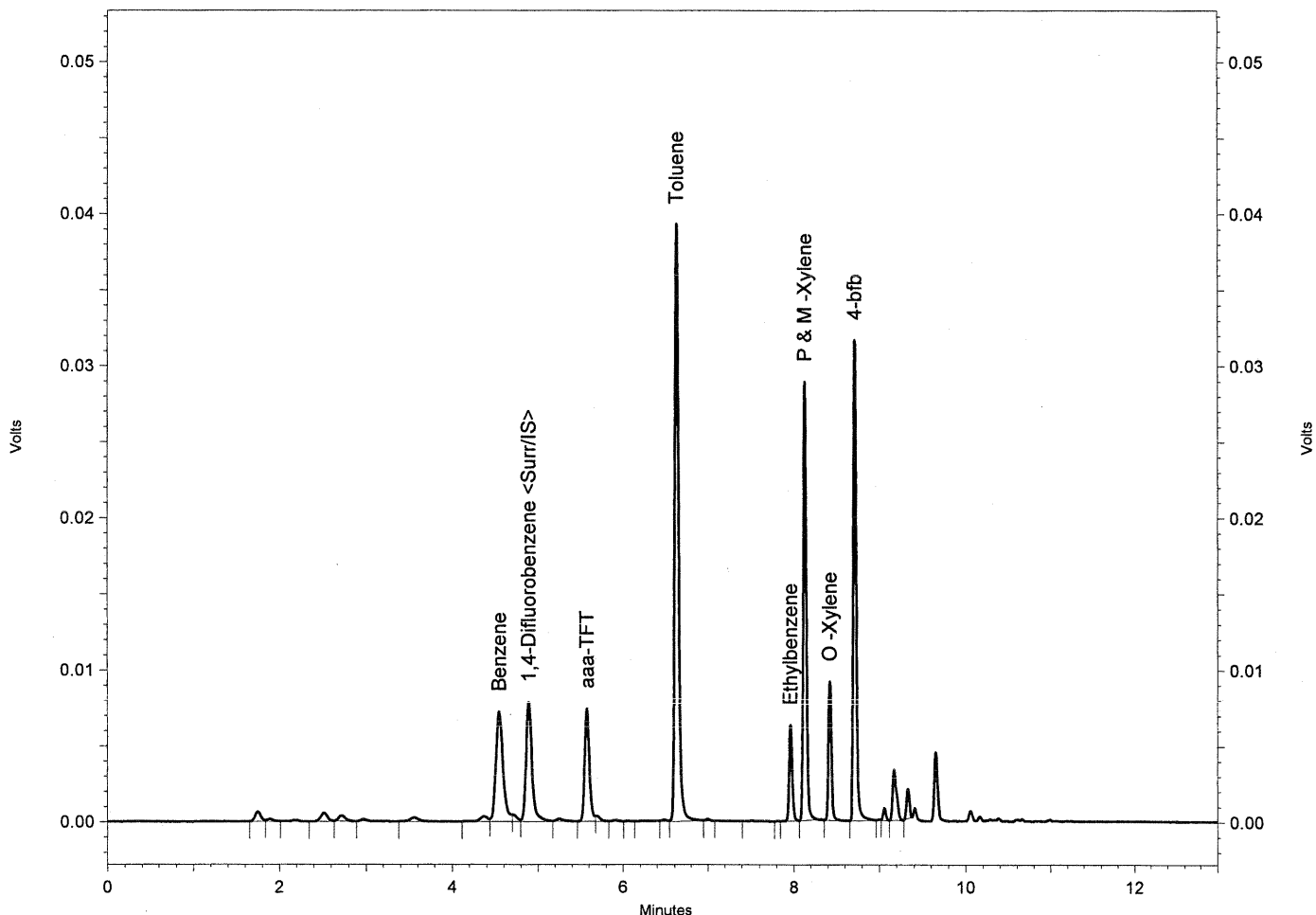
Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_011.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.547	42546	23.598	ppb	VS
1,4-Difluorobenzene <Surr/IS>	4.893	38024	51.485	ppb	VV
aaa-TFT	5.577	29843	0.000	ppb	VS
Toluene	6.630	122457	72.928	ppb	VV
Ethylbenzene	7.963	15803	11.830	ppb	SB
P & M -Xylene	8.133	74337	48.441	ppb	BS
O -Xylene	8.427	22365	15.558	ppb	BB
4-bfb	8.717	76102	51.018	ppb	BV

SGS Environmental Services Inc.

Sample Name: LCS GRO H2O

Date/Time: 8/28/2006 1:15:17 PM

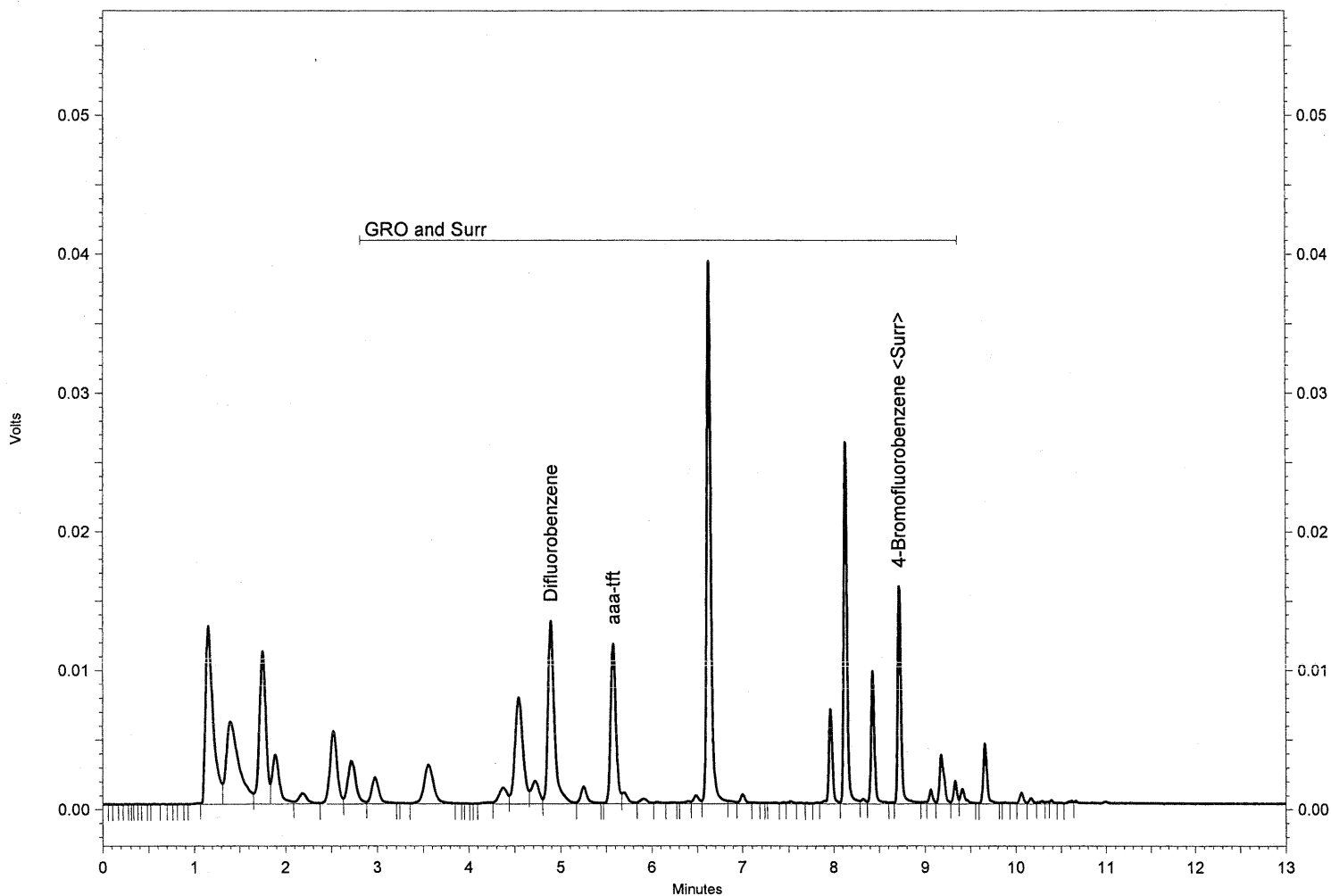
Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_011.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.897	66719	50.678	ppb	LL
aaa-tft	5.580	46872	46.257	ppb	LL
4-Bromofluorobenzene <Surr>	8.720	38987	43.933	ppb	LL
GRO		379237	399.241	ppb	
GRO and Surr		531815	559.867	ppb	

SGS Environmental Services Inc.

Sample Name: LCSD GRO H20

Date/Time: 8/28/2006 1:40:50 PM

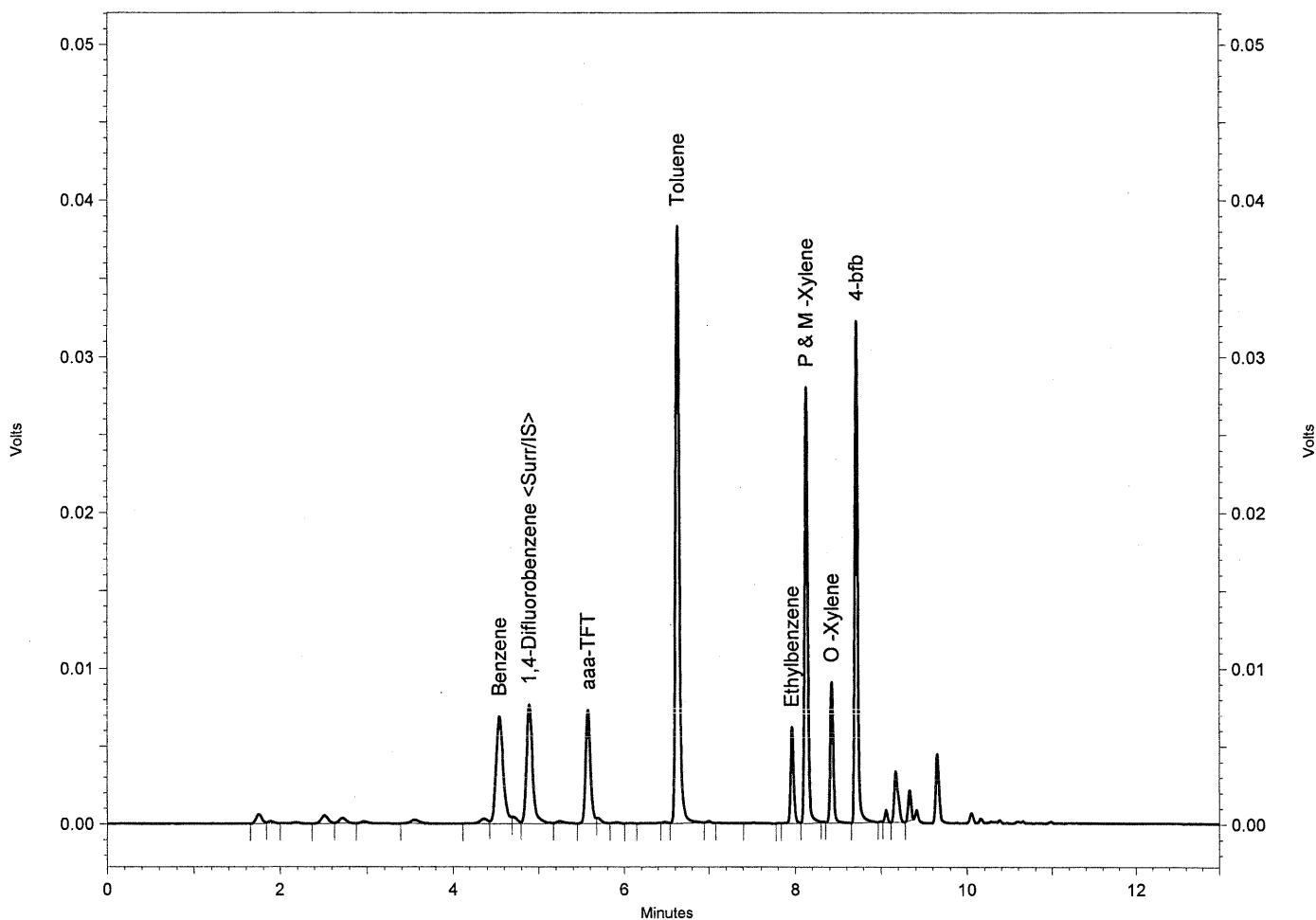
Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_012.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.543	40847	23.098	ppb	VS
1,4-Difluorobenzene <Surr/IS>	4.890	37312	51.508	ppb	VV
aaa-TFT	5.573	29271	0.000	ppb	VS
Toluene	6.630	118959	72.229	ppb	VV
Ethylbenzene	7.963	15627	11.926	ppb	SV
P & M -Xylene	8.130	73192	48.626	ppb	VS
O -Xylene	8.427	22234	15.770	ppb	VB
4-bfb	8.717	77126	52.715	ppb	BV

SGS Environmental Services Inc.

Sample Name: LCSD GRO H20

Date/Time: 8/28/2006 1:40:50 PM

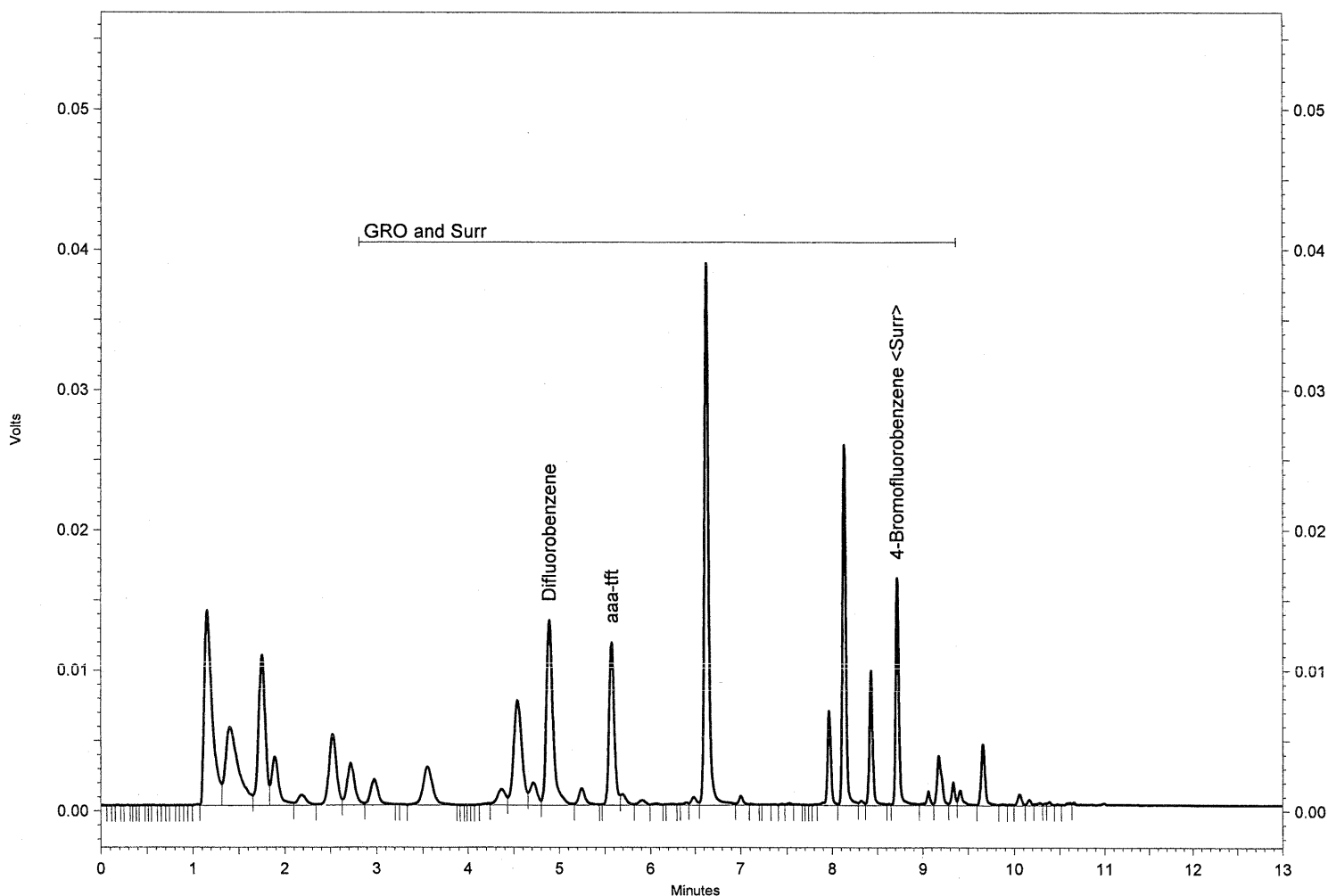
Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_012.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.893	67154	51.009	ppb	LL
aaa-tft	5.577	47239	46.619	ppb	LL
4-Bromofluorobenzene <Surr>	8.720	40350	45.469	ppb	LL
GRO		376739	396.611	ppb	
GRO and Surr		531482	559.516	ppb	

SGS Environmental Services Inc.

Sample Name: 1064875003 A

Date/Time: 8/28/2006 3:42:36 PM

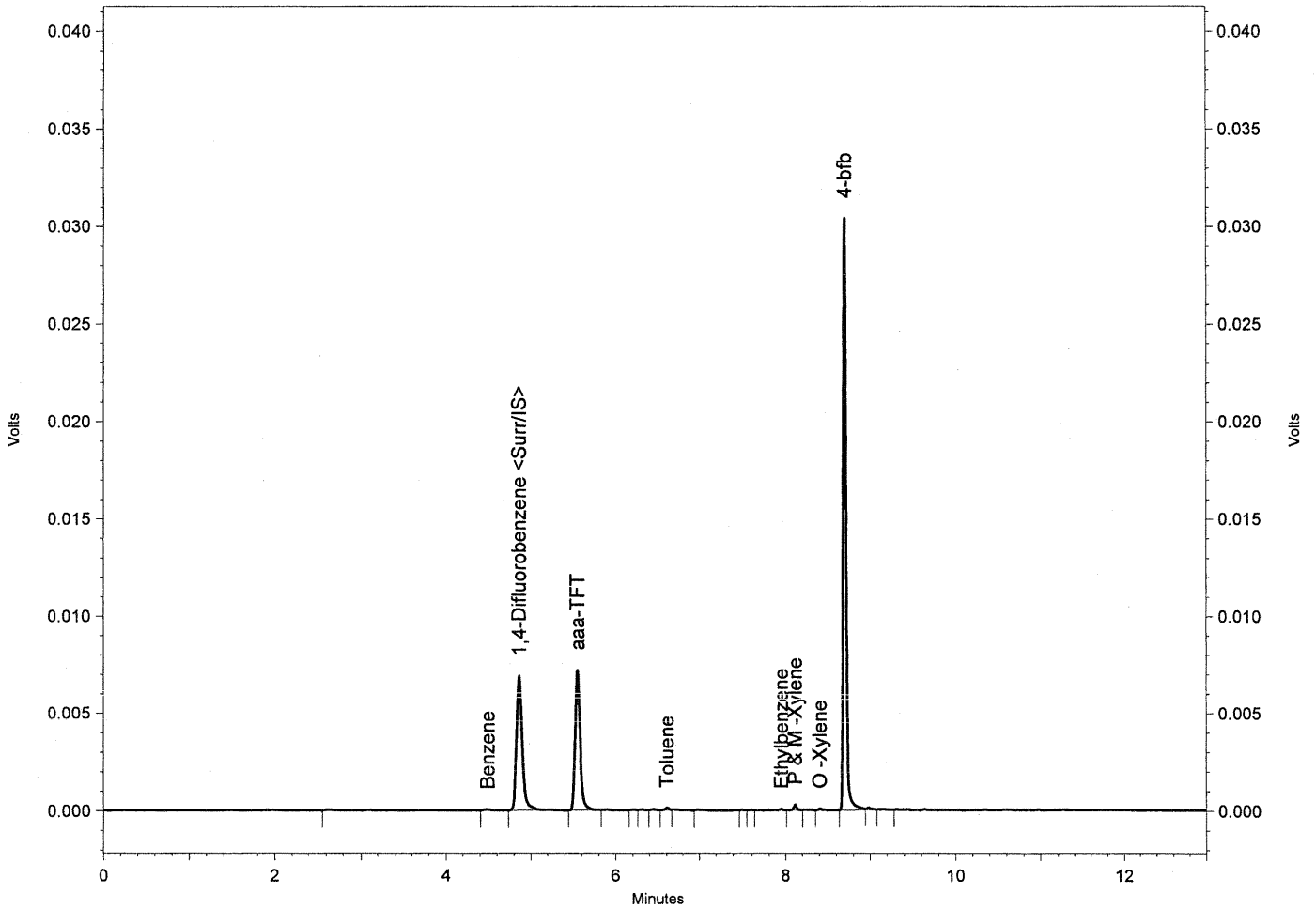
Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_017.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.493	251	0.140 LC	ppb	BB
1,4-Difluorobenzene <Surr/IS>	4.867	32663	44.591	ppb	BB
aaa-TFT	5.553	29599	0.000	ppb	BV
Toluene	6.610	435	0.261 LC	ppb	VV
Ethylbenzene	7.950	253	0.191 LC	ppb	SB
P & M-Xylene	8.117	796	0.523 LC	ppb	BV
O-Xylene	8.410	261	0.183 LC	ppb	VB
4-bfb	8.703	72853	49.242	ppb	BV

SGS Environmental Services Inc.

Sample Name: 1064875003 A

Date/Time: 8/28/2006 3:42:36 PM

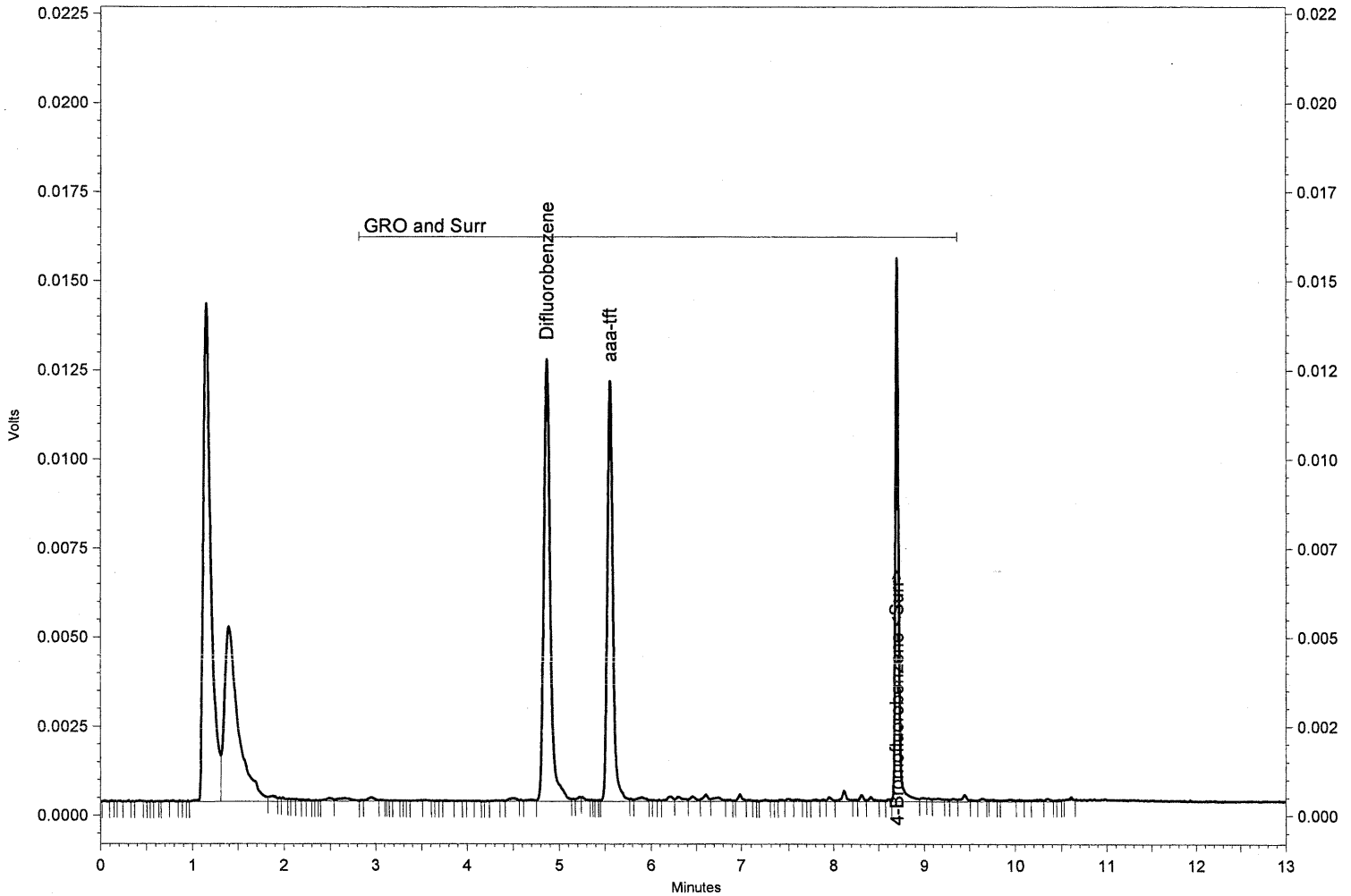
Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_017.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.867	60243	45.759	ppb	LL
aaa-tft	5.553	49374	48.726	ppb	LL
4-Bromofluorobenzene <Surr>	8.703	37443	42.193	ppb	LL
GRO		16240	17.097 LC	ppb	
GRO and Surr		163300	171.914	ppb	

SGS Environmental Services Inc.

Sample Name: 1064875004 A

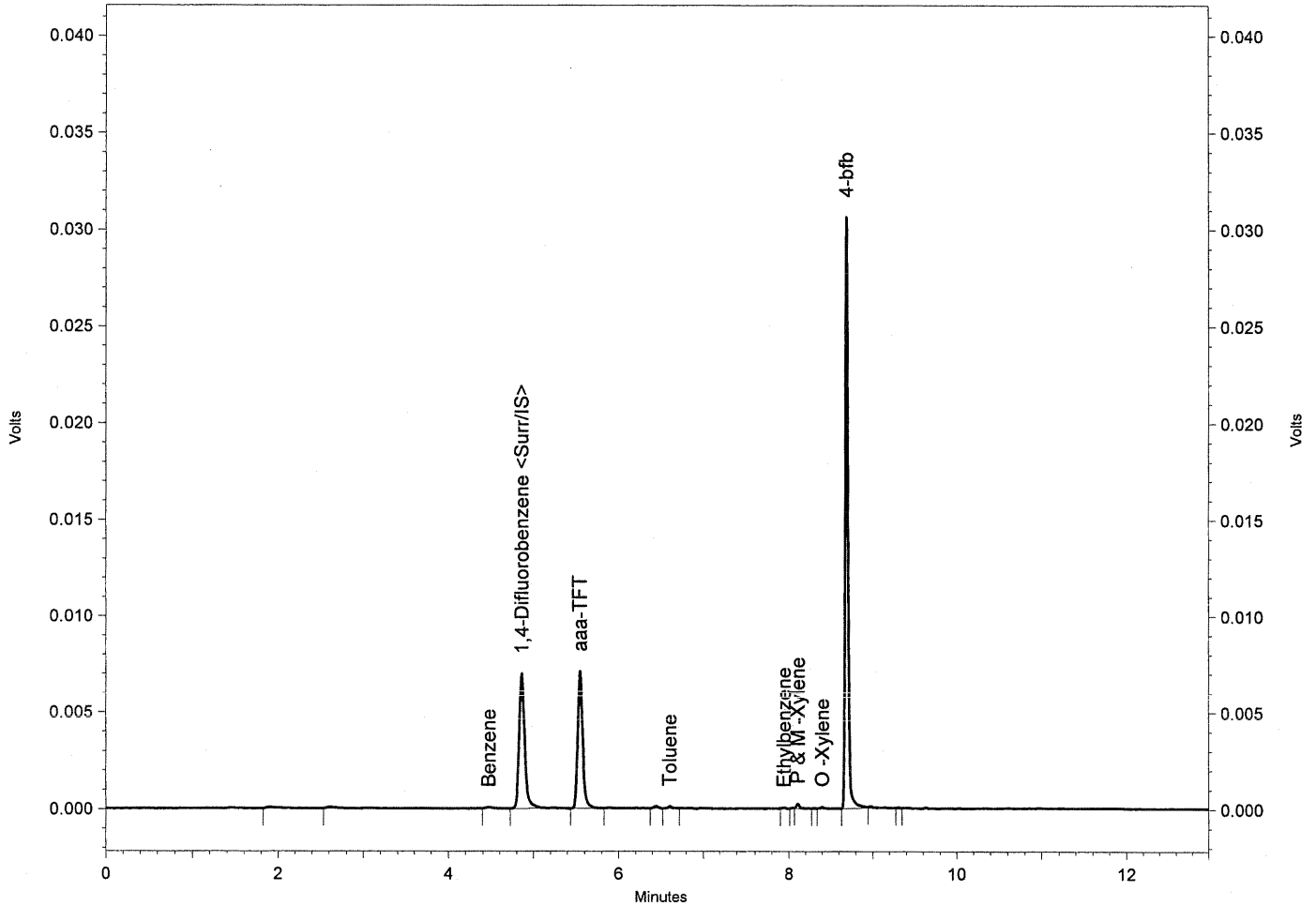
Date/Time: 8/28/2006 4:07:49 PM

Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_018.dat
PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.473	314	0.179 LC	ppb	BB
1,4-Difluorobenzene <Surr/IS>	4.863	32868	45.851	ppb	BB
aaa-TFT	5.550	28966	0.000	ppb	BV
Toluene	6.607	401	0.246 LC	ppb	VV
Ethylbenzene	7.943	119	0.092 LC	ppb	BB
P & M -Xylene	8.110	631	0.424 LC	ppb	SB
O -Xylene	8.407	211	0.151 LC	ppb	SB
4-bfb	8.693	73123	50.505	ppb	BV

SGS Environmental Services Inc.

Sample Name: 1064875004 A

Date/Time: 8/28/2006 4:07:49 PM

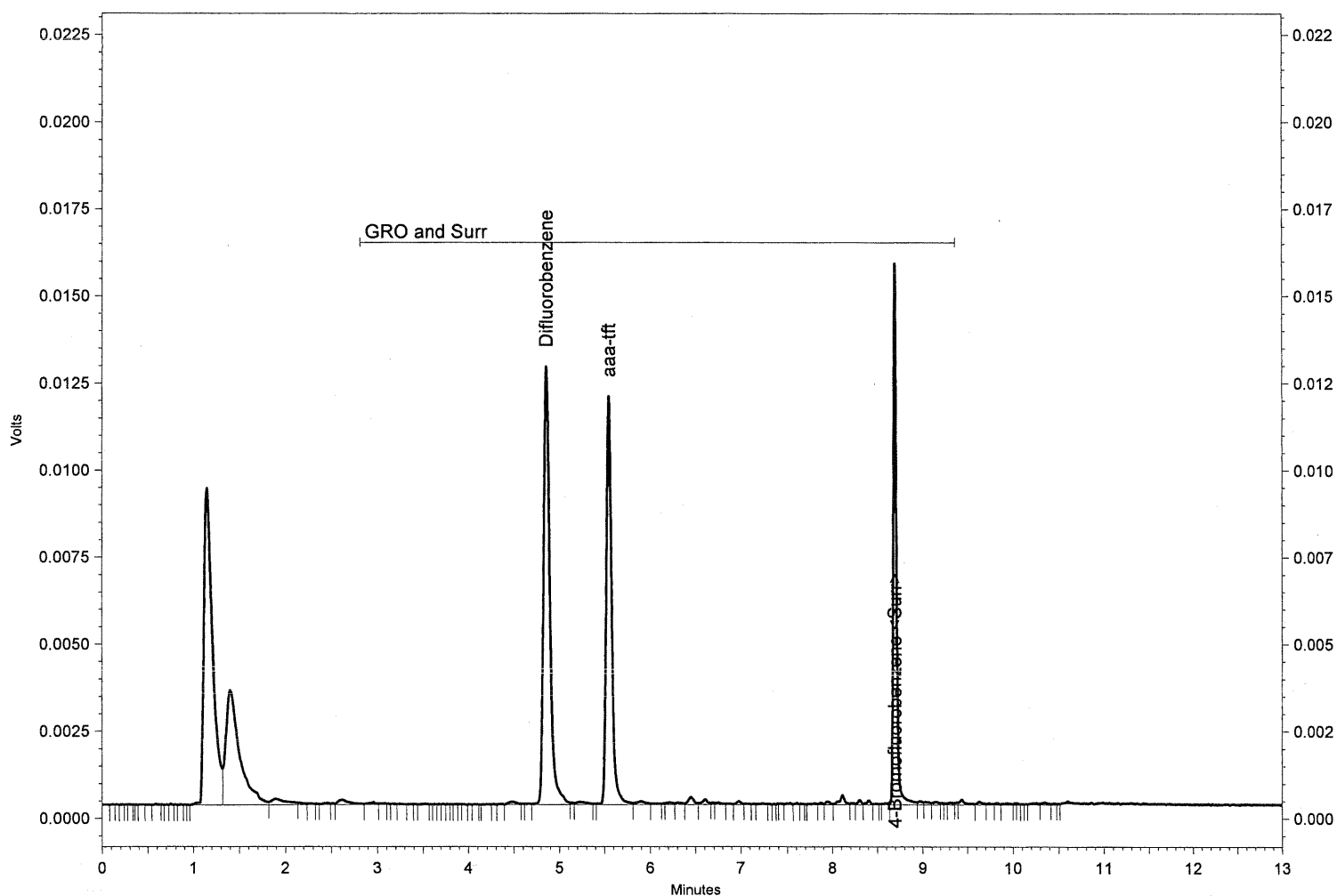
Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_018.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.863	60623	46.048	ppb	LL
aaa-tft	5.553	48957	48.315	ppb	LL
4-Bromofluorobenzene <Surr>	8.697	38113	42.948	ppb	LL
GRO		13646	14.366 LC	ppb	
GRO and Surr		161339	169.849	ppb	

SGS Environmental Services Inc.

Sample Name: 1064875005 A

Date/Time: 8/28/2006 4:33:01 PM

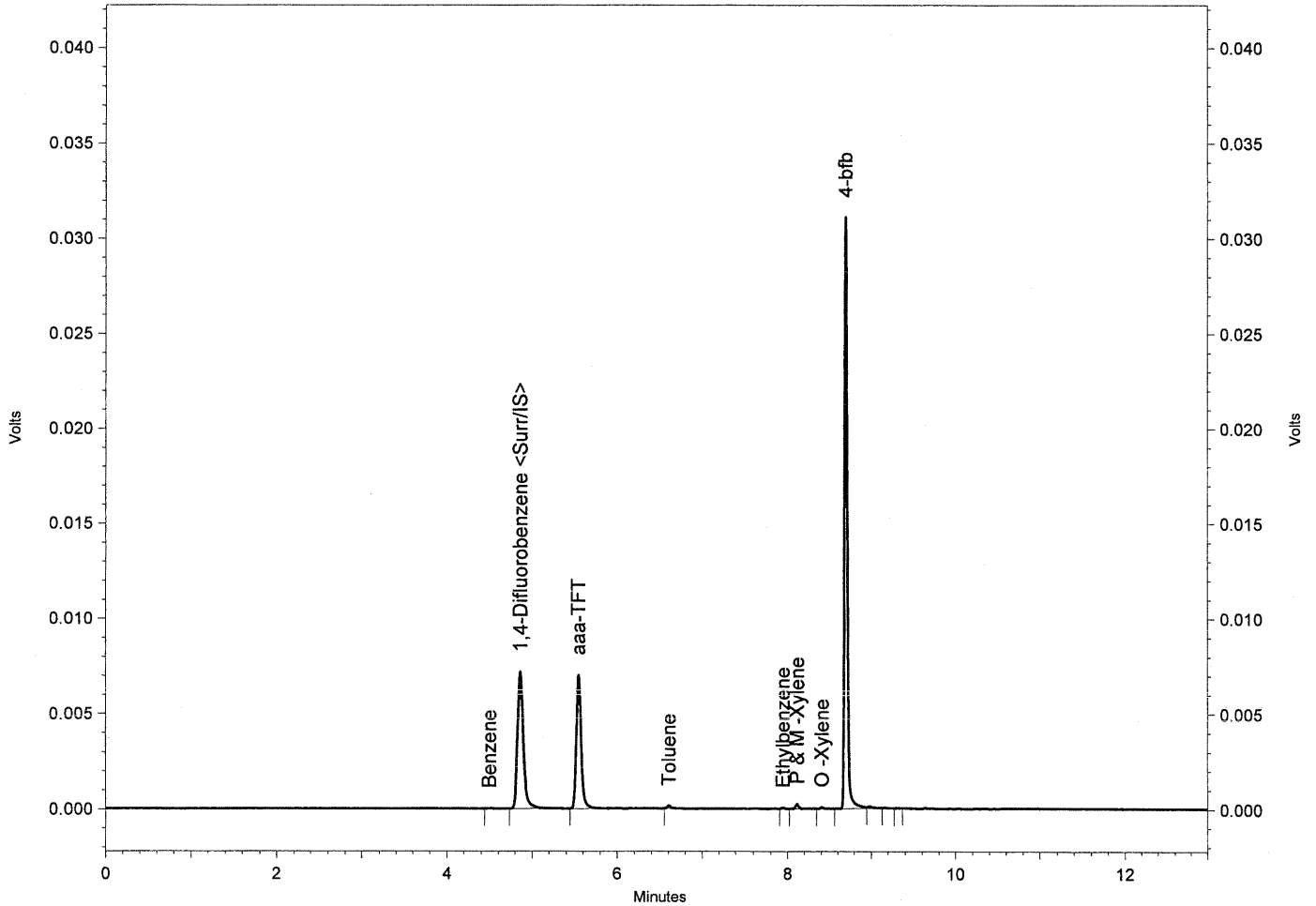
Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_019.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.497	101	0.058 LC	ppb	BB
1,4-Difluorobenzene <Surr/IS>	4.863	33901	47.884	ppb	BB
aaa-TFT	5.550	28608	0.000	ppb	BB
Toluene	6.610	457	0.284 LC	ppb	BB
Ethylbenzene	7.947	148	0.116 LC	ppb	BB
P & M -Xylene	8.117	640	0.435 LC	ppb	BB
O -Xylene	8.413	221	0.160 LC	ppb	SB
4-bfb	8.700	74459	52.071	ppb	BV

SGS Environmental Services Inc.

Sample Name: 1064875005 A

Date/Time: 8/28/2006 4:33:01 PM

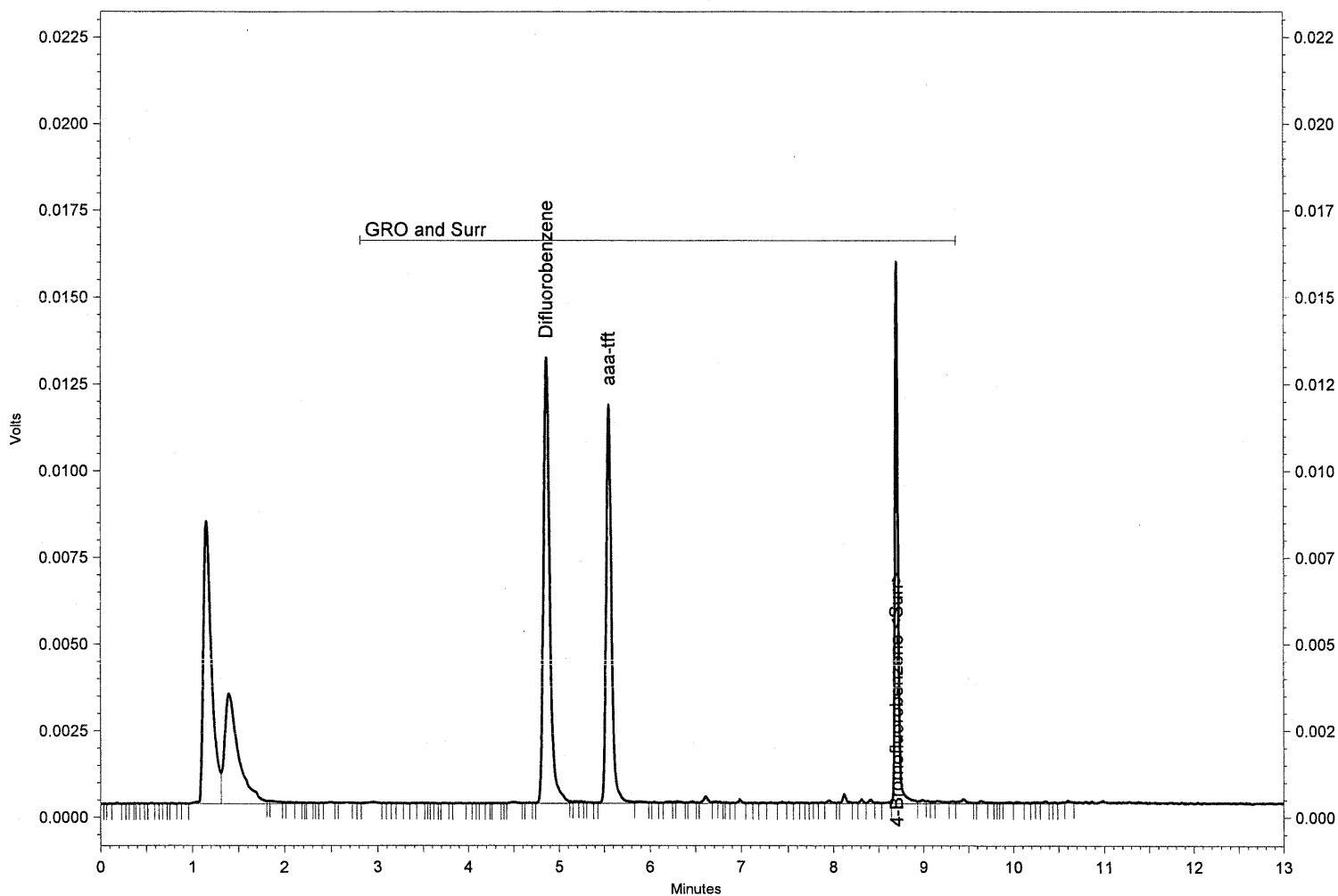
Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_019.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.863	61983	47.081	ppb	LL
aaa-tft	5.553	48132	47.500	ppb	LL
4-Bromofluorobenzene <Surr>	8.703	38193	43.038	ppb	LL
GRO		10835	11.407	LC	ppb
GRO and Surr		159143	167.537	ppb	

SGS Environmental Services Inc.

Sample Name: CCV2
MCM

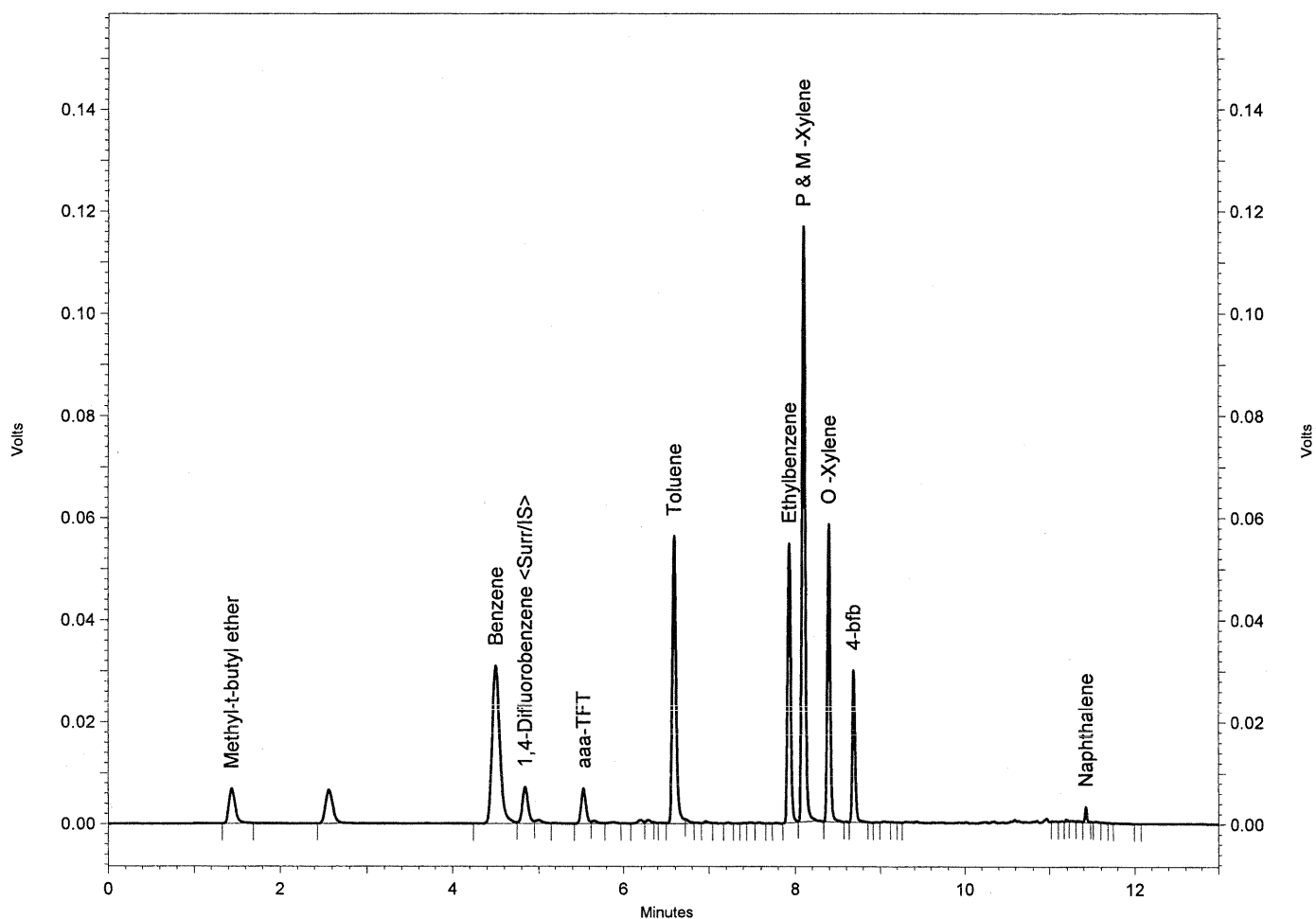
Date/Time: 8/28/2006 7:28:29 PM

Analyst:

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met
Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_026.dat

Dilution: 1

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Methyl-t-butyl ether	1.437	36574	8270.944 HC	ppb	BS
Benzene	4.503	193757	117.791	ppb	BV
1,4-Difluorobenzene <Surr/IS>	4.843	33224	49.308	ppb	VV
aaa-TFT	5.533	27227	0.000	ppb	VV
Toluene	6.593	173489	113.246	ppb	VS
Ethylbenzene	7.933	138771	113.860	ppb	BV
P & M -Xylene	8.103	310010	221.423	ppb	VS
O -Xylene	8.397	143935	109.750	ppb	BV
4-bfb	8.687	71988	52.897	ppb	SS
Naphthalene	11.427	5283	29.891	ppb	VS

SGS Environmental Services Inc.

Sample Name: CCV2

Date/Time: 8/28/2006 7:28:29 PM

Analyst:

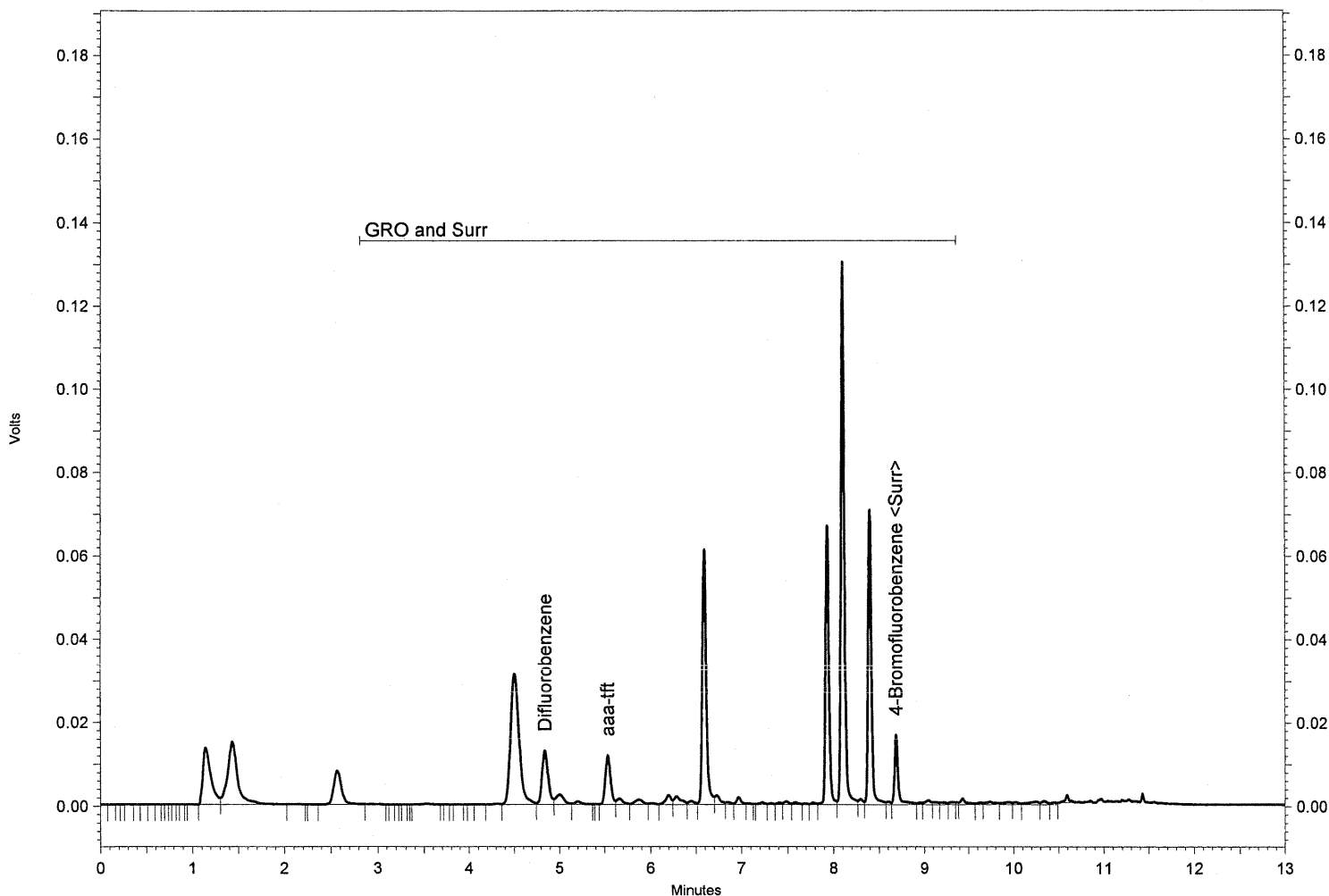
MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_026.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.847	60788	46.173	ppb	LL
aaa-tft	5.533	47552	46.928	ppb	LL
4-Bromofluorobenzene <Surr>	8.690	47085	53.058	ppb	LL
GRO		1198195	1261.396	ppb	
GRO and Surr		1353620	1425.019	ppb	

SGS Environmental Services Inc.

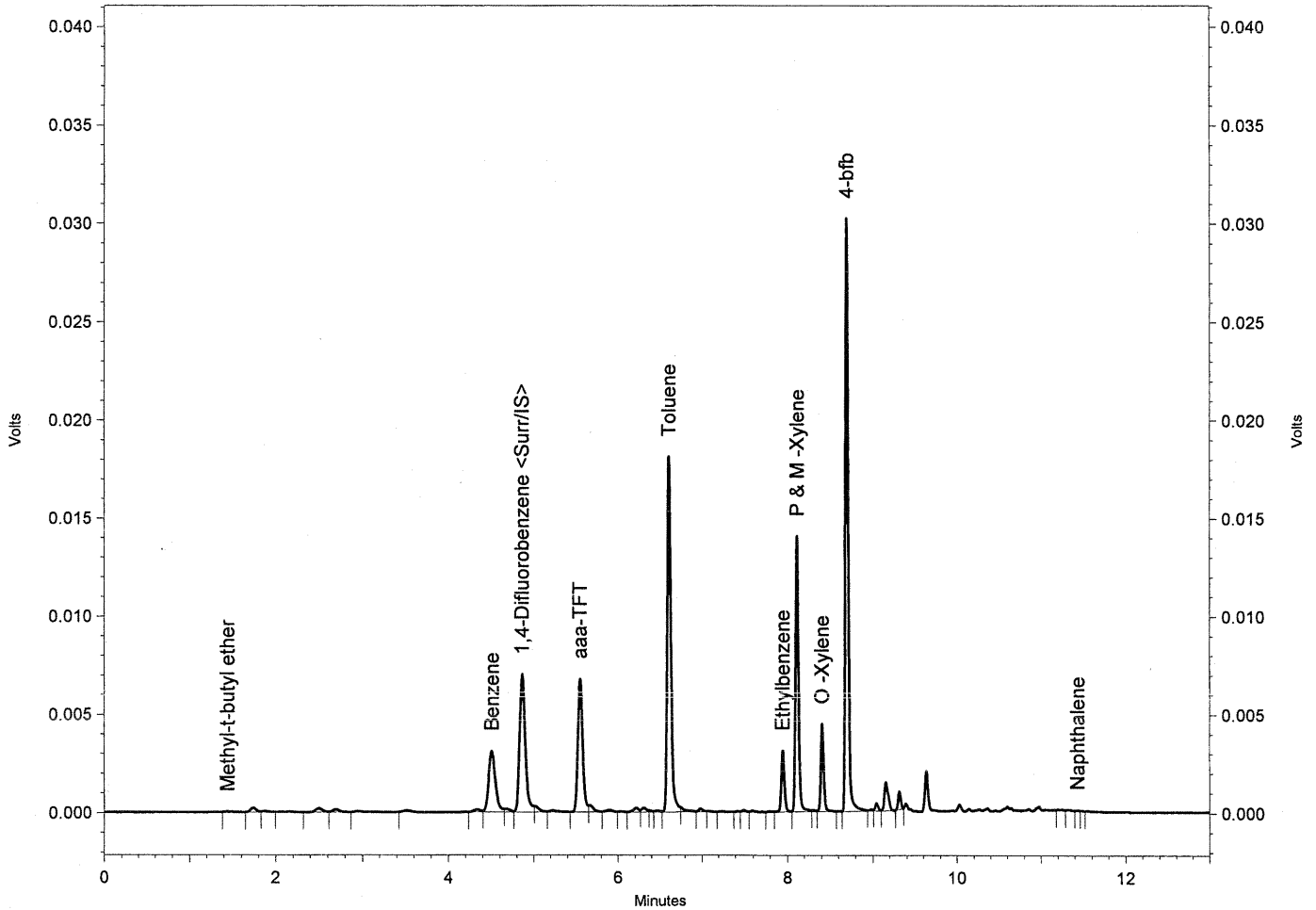
Sample Name: CCV
MCM

Date/Time: 8/28/2006 7:53:41 PM

Analyst:

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met
Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_027.dat
PID

Dilution: 1



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Methyl-t-butyl ether	1.440	109	24.871	ppb	BB
Benzene	4.510	17097	10.487	ppb	VS
1,4-Difluorobenzene <Surr/IS>	4.867	32815	49.138	ppb	VS
aaa-TFT	5.553	26985	0.000	ppb	BS
Toluene	6.613	55529	36.572	ppb	VS
Ethylbenzene	7.947	7832	6.484	ppb	VV
P & M -Xylene	8.117	36061	25.987	ppb	VV
O -Xylene	8.410	10879	8.370	ppb	VB
4-bfb	8.700	71388	52.926	ppb	SV
Naphthalene	11.433	71	0.405 LC	ppb	BS

SGS Environmental Services Inc.

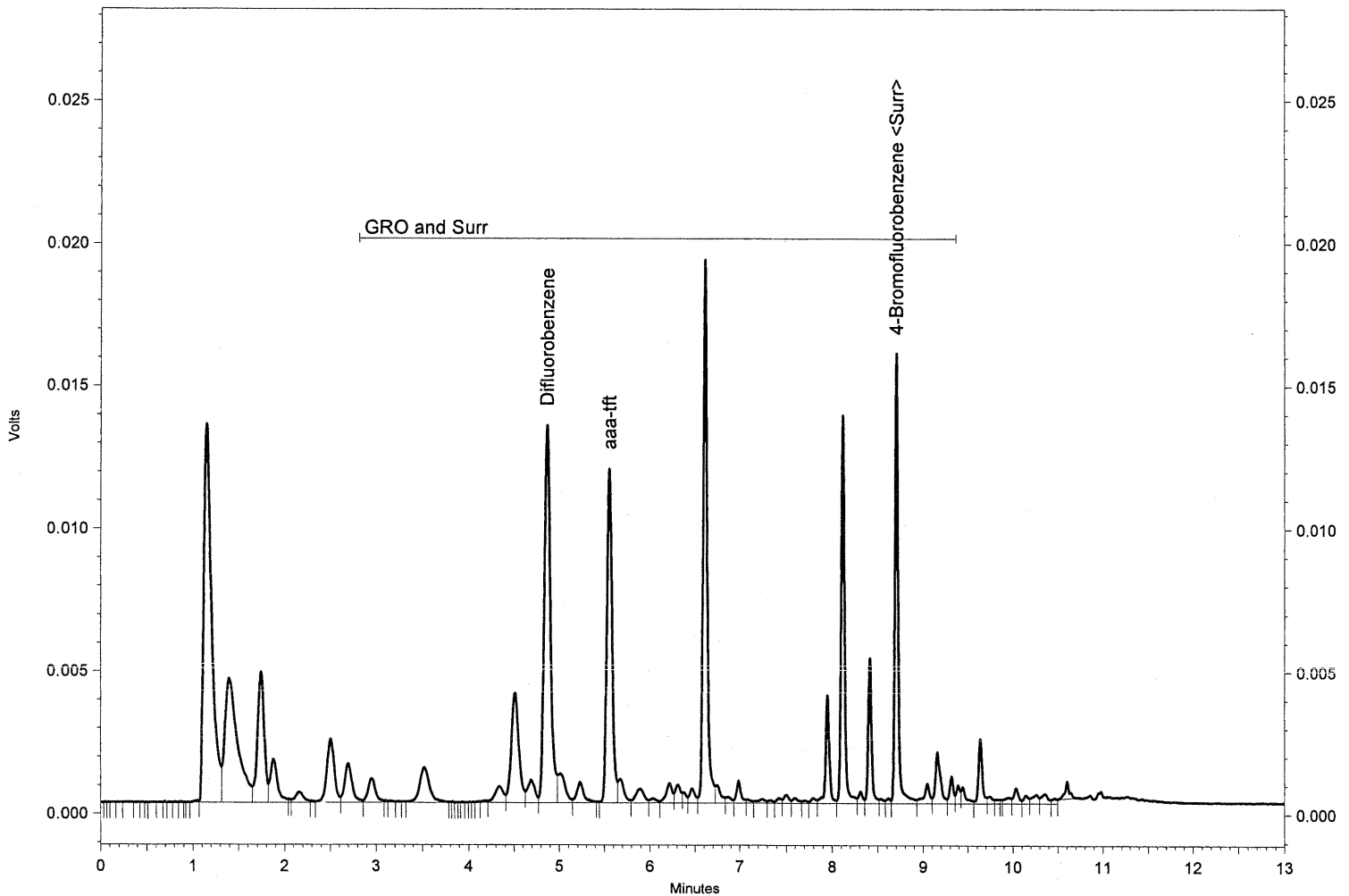
Sample Name: CCV
MCM

Date/Time: 8/28/2006 7:53:41 PM

Analyst:

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met
Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_027.dat
FID

Dilution: 1



FID Detector
FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.870	63036	47.881	ppb	LL
aaa-tft	5.557	47344	46.723	ppb	LL
4-Bromofluorobenzene <Surr>	8.703	39417	44.417	ppb	LL
GRO		220913	232.565	ppb	
GRO and Surr		370710	390.264	ppb	

SGS Environmental Services Inc.

Sample Name: MS BTEX 1064898005 A

Date/Time: 8/29/2006 12:29:07 AM

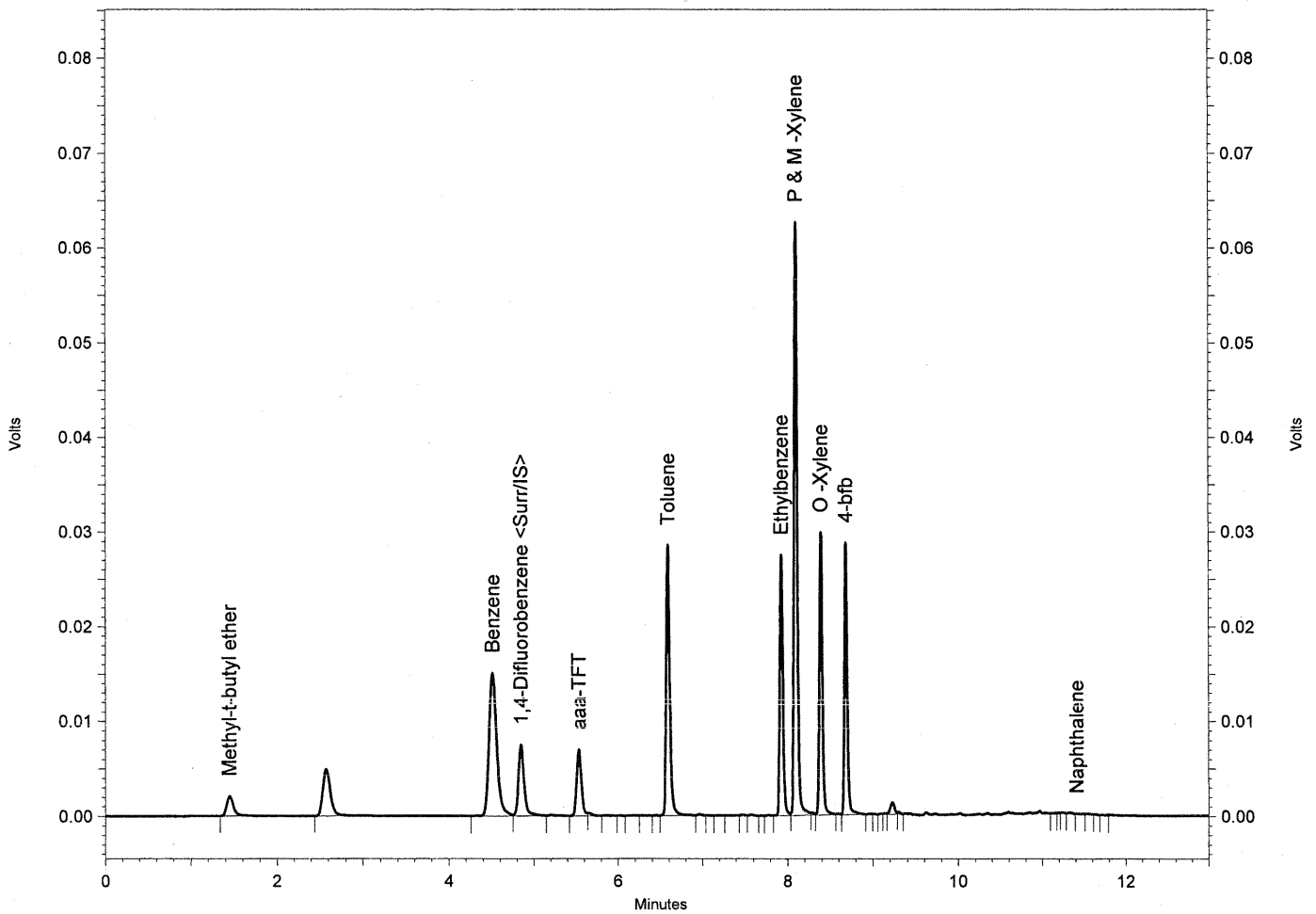
Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_038.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Methyl-t-butyl ether	1.447	11842	2621.182 HC	ppb	BB
Benzene	4.513	94126	56.008	ppb	BV
1,4-Difluorobenzene <Surr/IS>	4.850	36060	52.382	ppb	VV
aaa-TFT	5.537	27817	0.000	ppb	VS
Toluene	6.593	88119	56.300	ppb	SV
Ethylbenzene	7.930	70262	56.426	ppb	VV
P & M -Xylene	8.100	165067	115.398	ppb	VS
O -Xylene	8.393	74221	55.393	ppb	VV
4-bfb	8.687	69193	49.764	ppb	VV
Naphthalene	11.413	76	0.421 LC	ppb	SB

SGS Environmental Services Inc.

Sample Name: MS BTEX 1064898005 A

Date/Time: 8/29/2006 12:29:07 AM

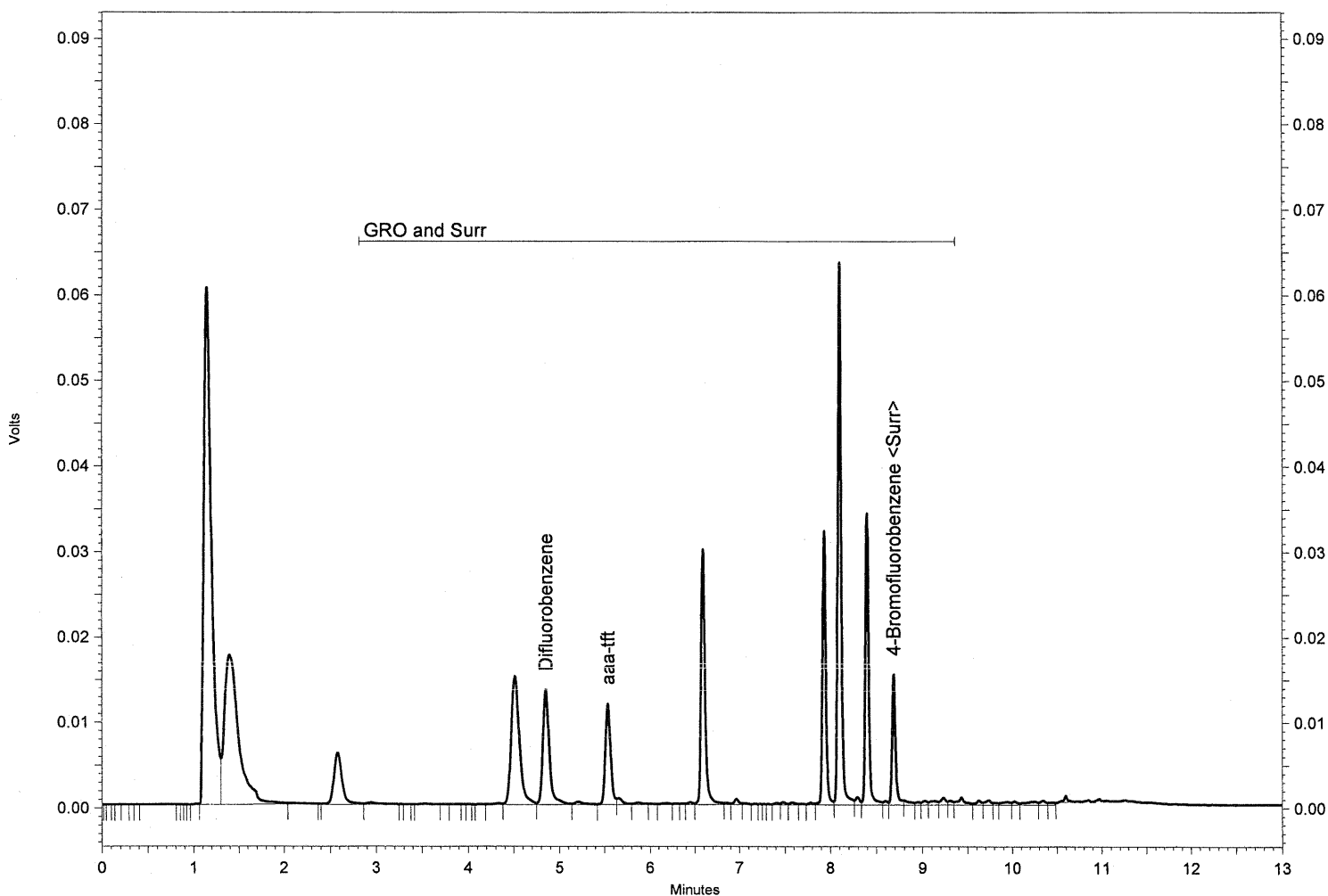
Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_038.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.853	66167	50.259	ppb	LL
aaa-tft	5.540	47774	47.147	ppb	LL
4-Bromofluorobenzene <Surr>	8.690	38603	43.500	ppb	LL
GRO		567924	597.880	ppb	
GRO and Surr		720468	758.470	ppb	

SGS Environmental Services Inc.

Sample Name: MSD BTEX 1064898005 A

Date/Time: 8/29/2006 12:54:01 AM

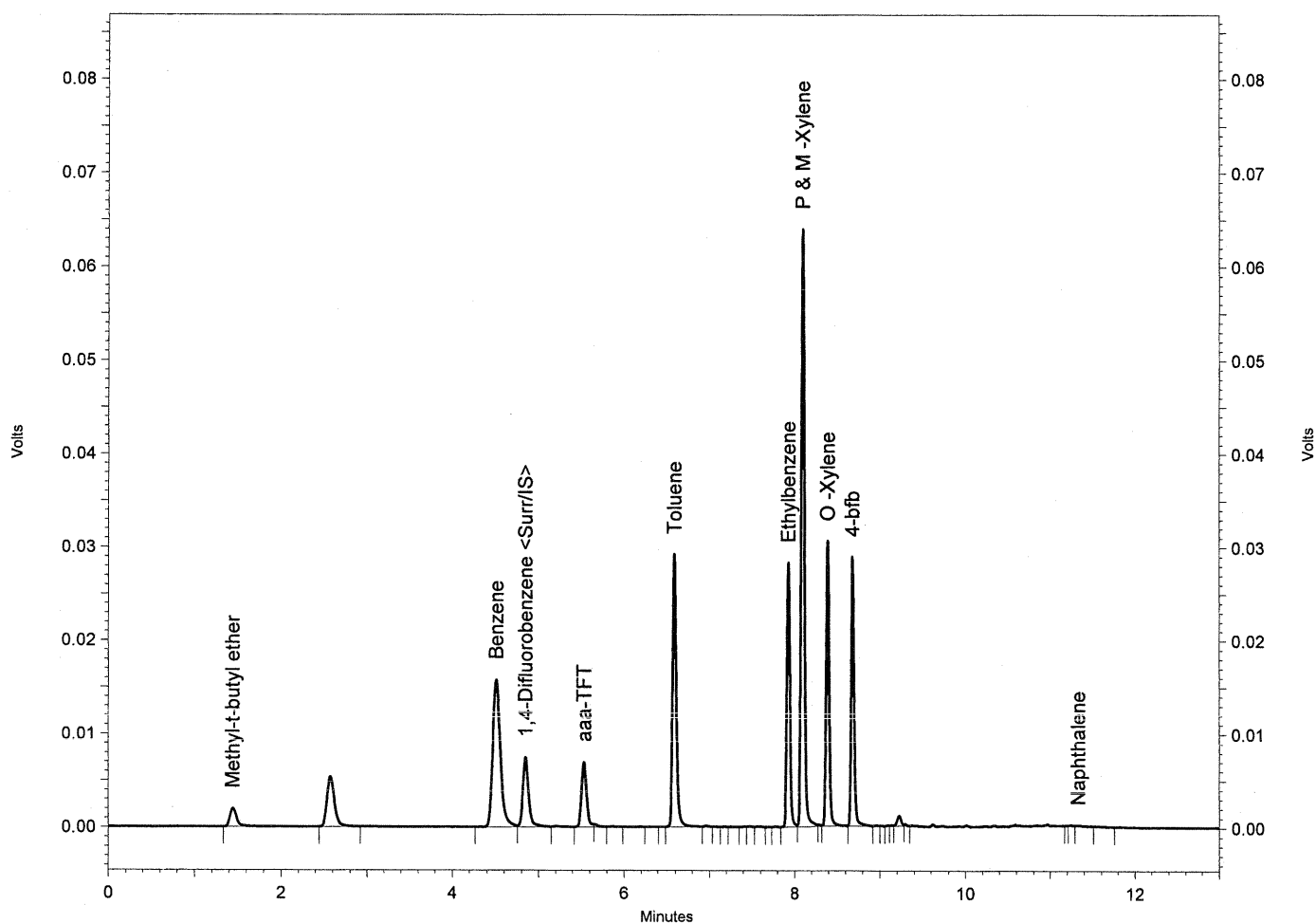
Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_039.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Methyl-t-butyl ether	1.443	11022	2441.873 HC	ppb	BB
Benzene	4.510	97605	58.131	ppb	BV
1,4-Difluorobenzene <Surr/IS>	4.850	35690	51.891	ppb	VV
aaa-TFT	5.537	27792	0.000	ppb	BS
Toluene	6.593	90648	57.968	ppb	SV
Ethylbenzene	7.930	72052	57.916	ppb	BV
P & M -Xylene	8.100	168689	118.036	ppb	VS
O -Xylene	8.393	75410	56.331	ppb	VB
4-bfb	8.683	69053	49.708	ppb	SV
Naphthalene	11.333	344	1.907 LC	ppb	VB

SGS Environmental Services Inc.

Sample Name: MSD BTEX 1064898005 A

Date/Time: 8/29/2006 12:54:01 AM

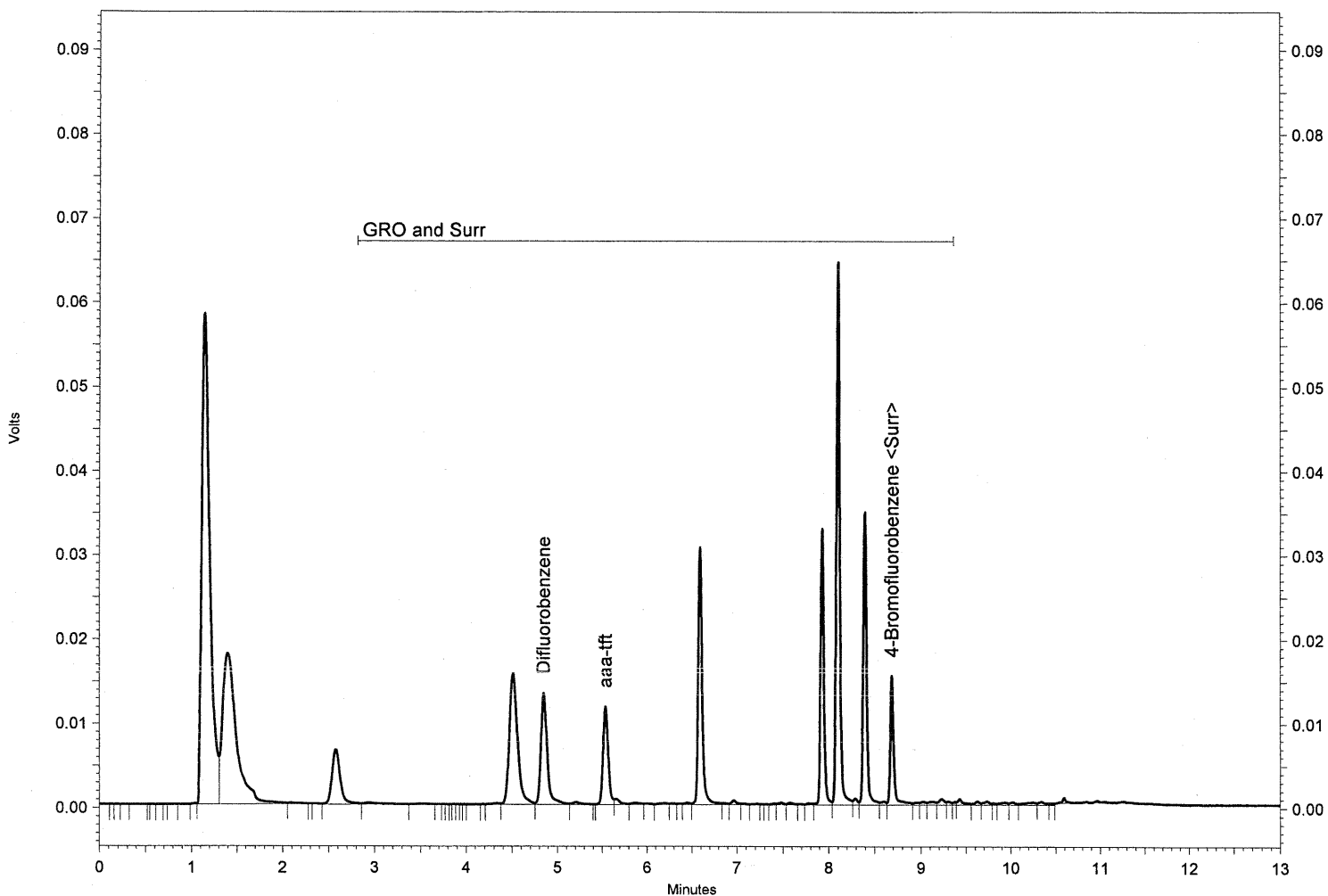
Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_039.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.850	64903	49.299	ppb	LL
aaa-tft	5.537	47360	46.739	ppb	LL
4-Bromofluorobenzene <Surr>	8.687	40427	45.556	ppb	LL
GRO		573655	603.914	ppb	
GRO and Surr		726345	764.657	ppb	

SGS Environmental Services Inc.

Sample Name: MS GRO 1064898005 A

Date/Time: 8/29/2006 1:19:00 AM

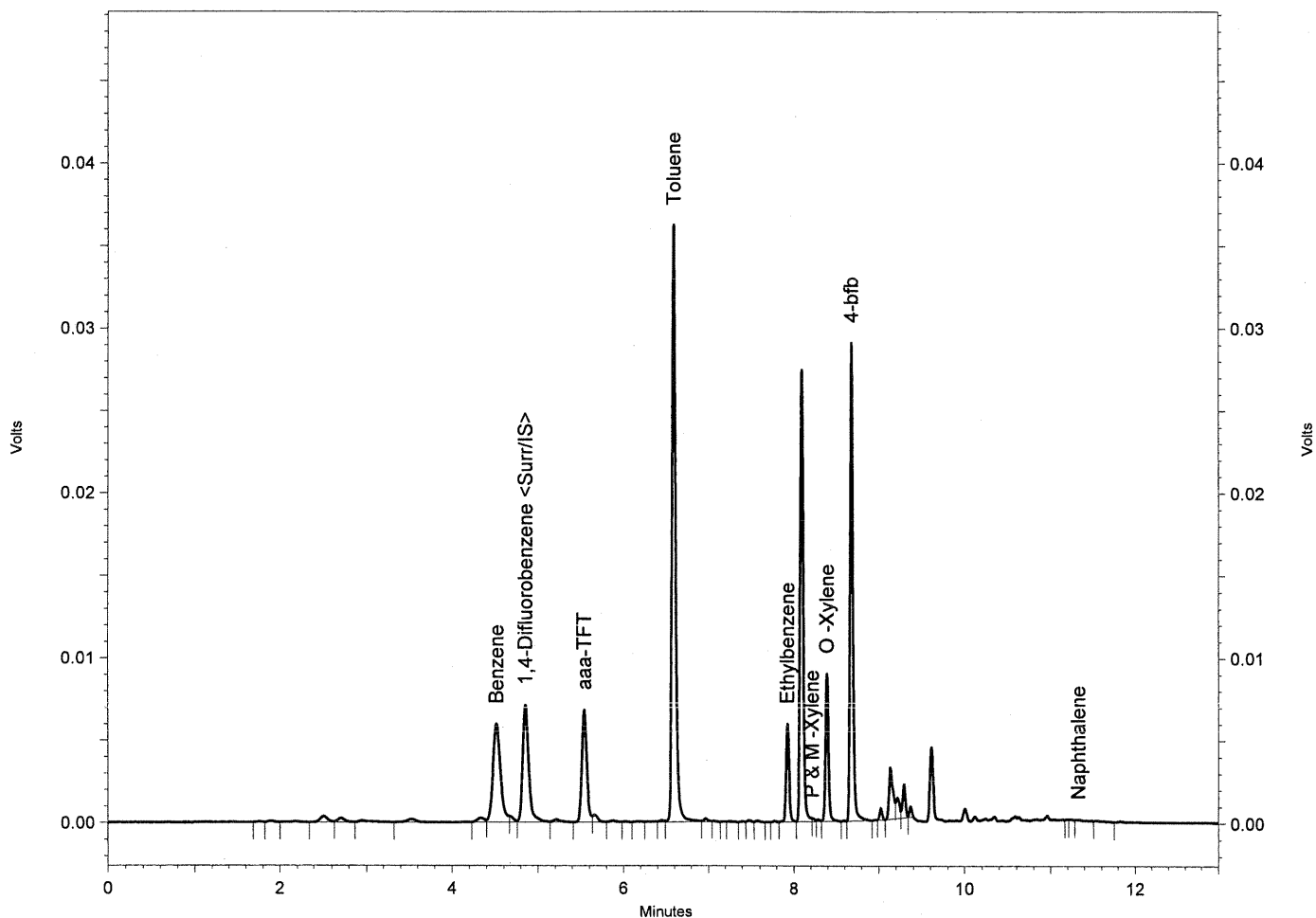
Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_040.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.517	36532	22.250	ppb	VS
1,4-Difluorobenzene <Surr/IS>	4.857	34639	51.503	ppb	VV
aaa-TFT	5.540	27177	0.000	ppb	BV
Toluene	6.597	112905	73.835	ppb	VV
Ethylbenzene	7.927	15046	12.368	ppb	VV
P & M -Xylene	8.213	470	0.336 LC	ppb	SV
O -Xylene	8.390	22178	16.942	ppb	VV
4-bfb	8.680	68990	50.787	ppb	SB
Naphthalene	11.327	248	1.406 LC	ppb	VB

SGS Environmental Services Inc.

Sample Name: MS GRO 1064898005 A

Date/Time: 8/29/2006 1:19:00 AM

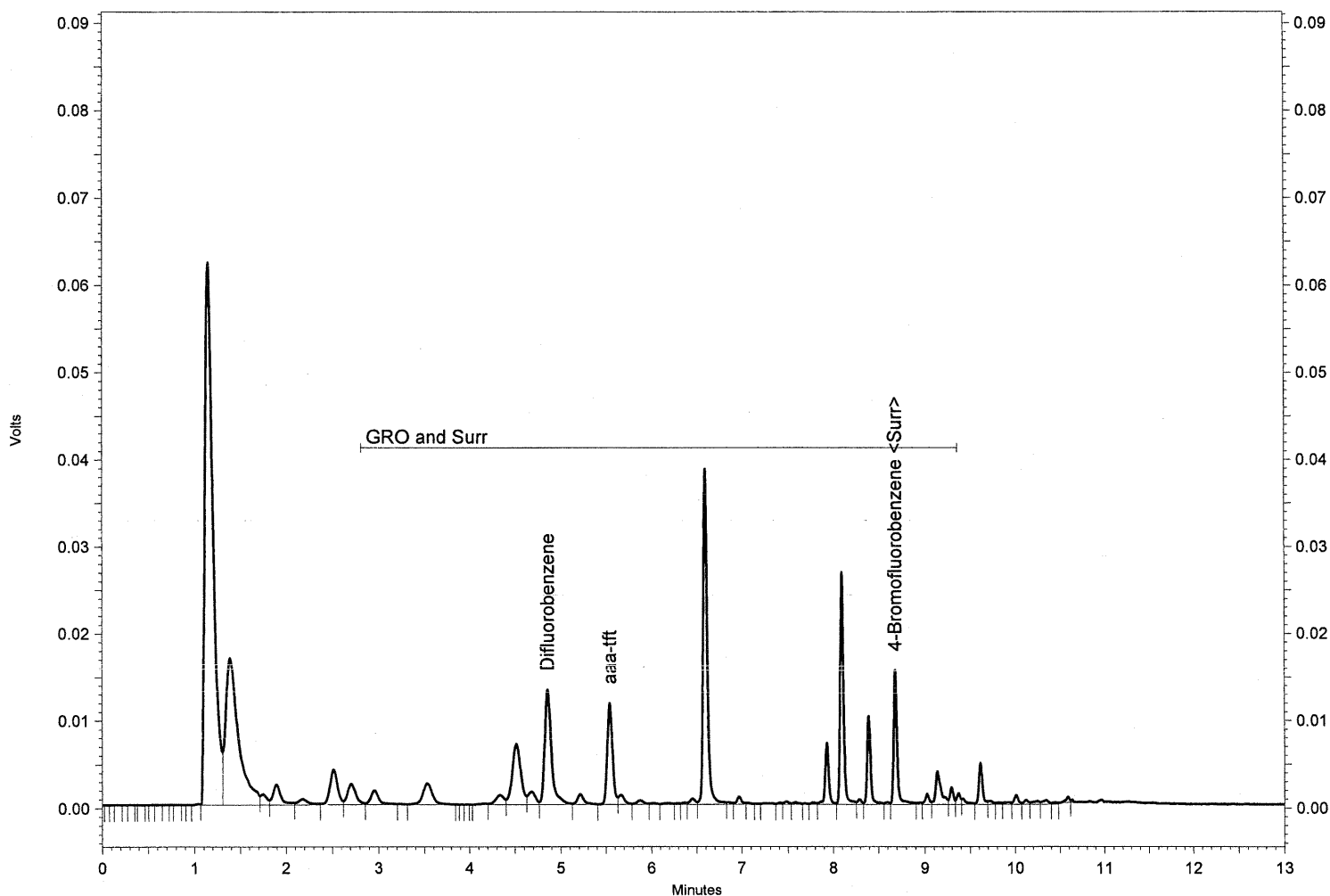
Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_040.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.860	67719	51.438	ppb	LL
aaa-tft	5.543	47123	46.505	ppb	LL
4-Bromofluorobenzene <Surr>	8.683	39518	44.531	ppb	LL
GRO		389456	409.999	ppb	
GRO and Surr		543816	572.501	ppb	

SGS Environmental Services Inc.

Sample Name: MSD GRO 1064898005 A

Date/Time: 8/29/2006 1:44:06 AM

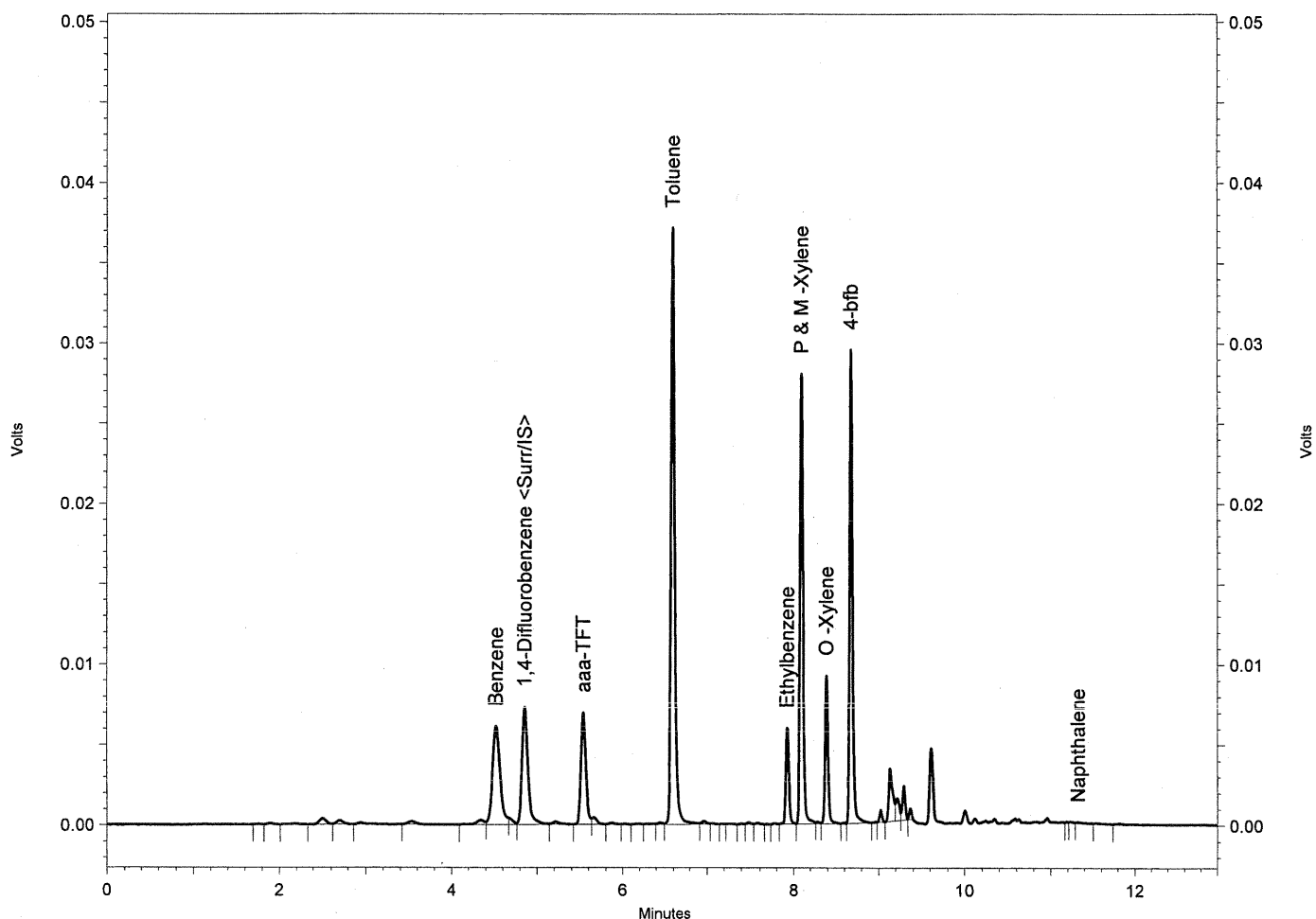
Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_041.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.520	37478	22.410	ppb	VS
1,4-Difluorobenzene <Surr/IS>	4.857	35470	51.778	ppb	VV
aaa-TFT	5.540	27681	0.000	ppb	VV
Toluene	6.597	115792	74.344	ppb	VV
Ethylbenzene	7.927	15125	12.206	ppb	VV
P & M -Xylene	8.097	72376	50.846	ppb	VS
O -Xylene	8.390	22452	16.839	ppb	VV
4-bfb	8.680	70479	50.938	ppb	SB
Naphthalene	11.323	196	1.091 LC	ppb	VB

SGS Environmental Services Inc.

Sample Name: MSD GRO 1064898005 A

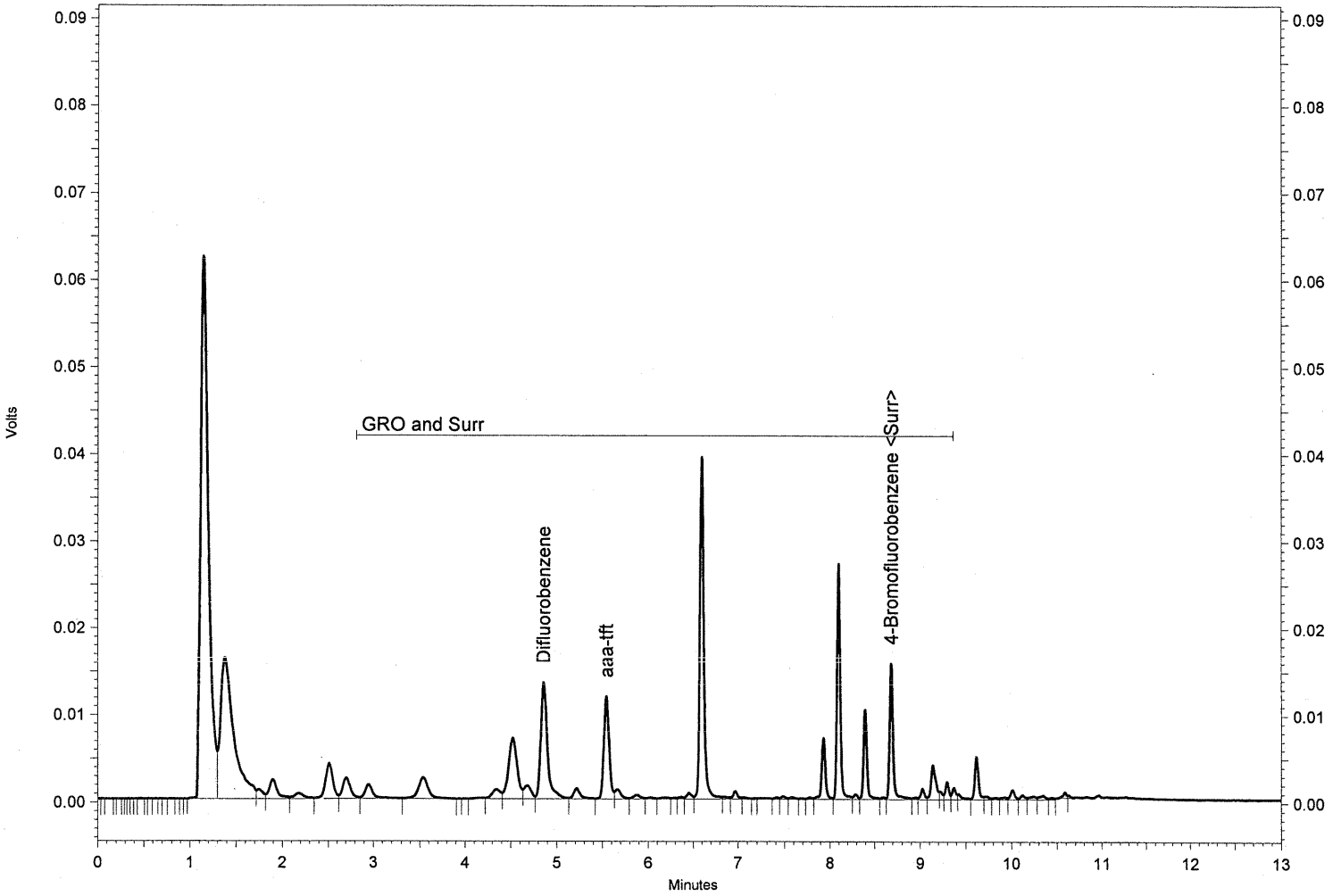
Date/Time: 8/29/2006 1:44:06 AM

Analyst: MCM

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_041.dat
FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.860	68198	51.802	ppb	LL
aaa-tft	5.543	47421	46.799	ppb	LL
4-Bromofluorobenzene <Surr>	8.683	40074	45.158	ppb	LL
GRO		393818	414.591	ppb	
GRO and Surr		549511	578.496	ppb	

SGS Environmental Services Inc.

Sample Name: CCV2
MCM

Date/Time: 8/29/2006 4:40:20 AM

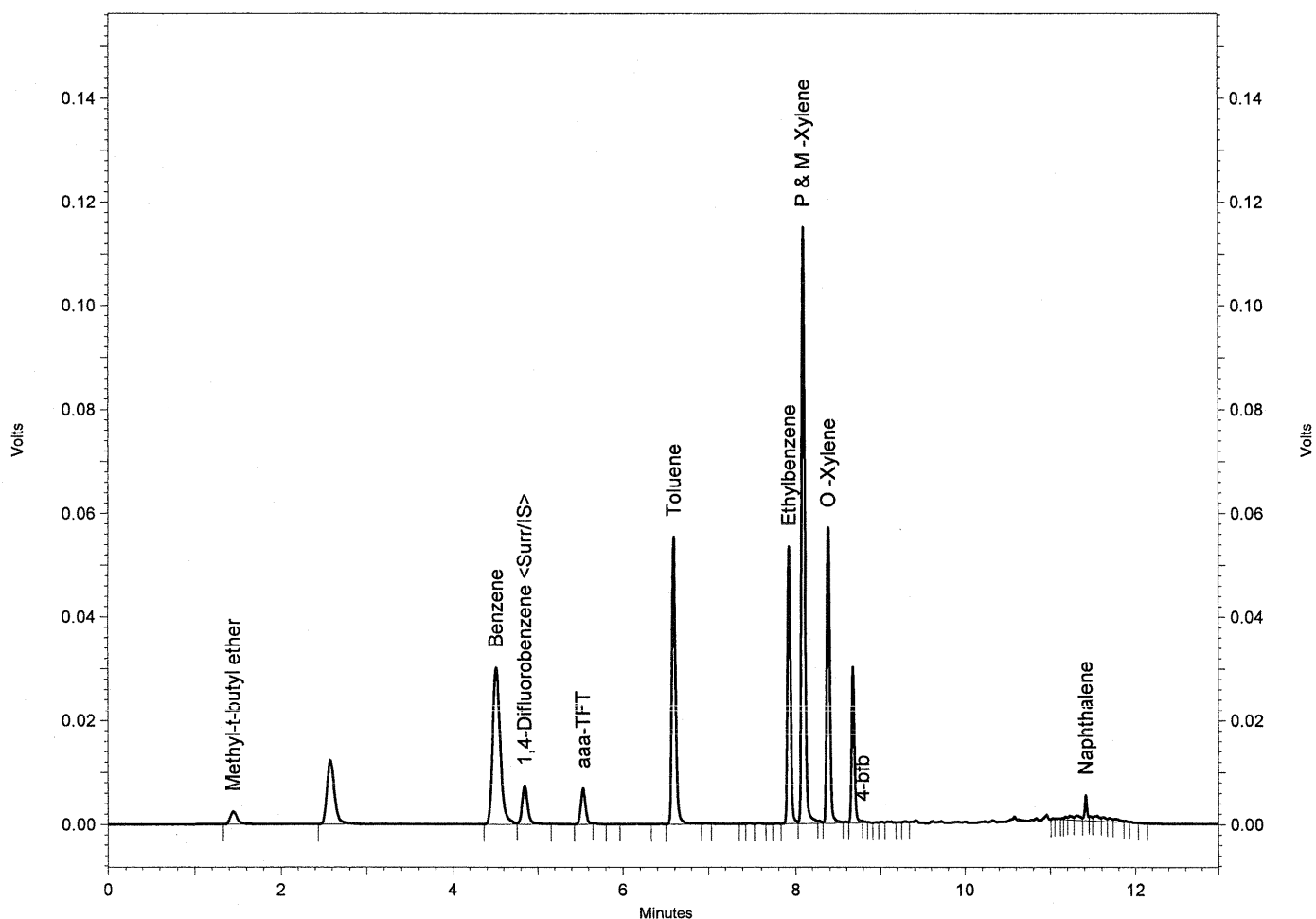
Analyst:

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met

Dilution: 1

Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_048.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Methyl-t-butyl ether	1.447	14174	3163.977 HC	ppb	BB
Benzene	4.510	190169	114.117	ppb	BV
1,4-Difluorobenzene <Surr/IS>	4.847	35281	51.685	ppb	VV
aaa-TFT	5.533	27583	0.000	ppb	VS
Toluene	6.593	169773	109.390	ppb	BV
Ethylbenzene	7.927	136419	110.486	ppb	VV
P & M -Xylene	8.097	306953	216.410	ppb	VS
O -Xylene	8.390	143803	108.234	ppb	VV
4-bfb	8.787	816	0.592 LC	ppb	SS
Naphthalene	11.413	9601	53.621	ppb	VS

SGS Environmental Services Inc.

Sample Name: CCV2
MCM

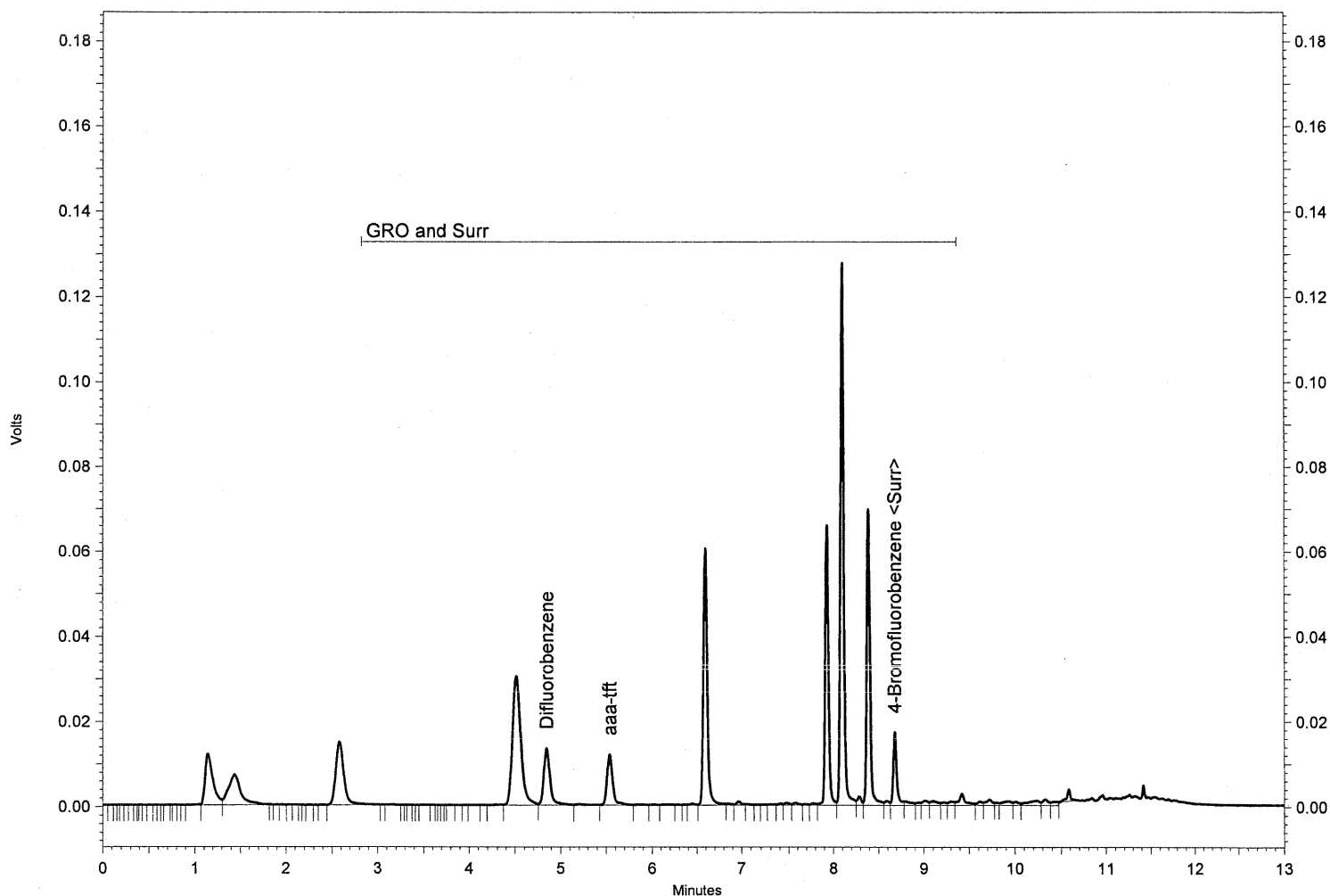
Date/Time: 8/29/2006 4:40:20 AM

Analyst:

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met
Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_048.dat

Dilution: 1

FID



FID Detector
FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.850	65048	49.409	ppb	LL
aaa-tft	5.537	50697	50.032	ppb	LL
4-Bromofluorobenzene <Surr>	8.680	45504	51.277	ppb	LL
GRO		1116650	1175.550	ppb	
GRO and Surr		1277899	1345.304	ppb	

SGS Environmental Services Inc.

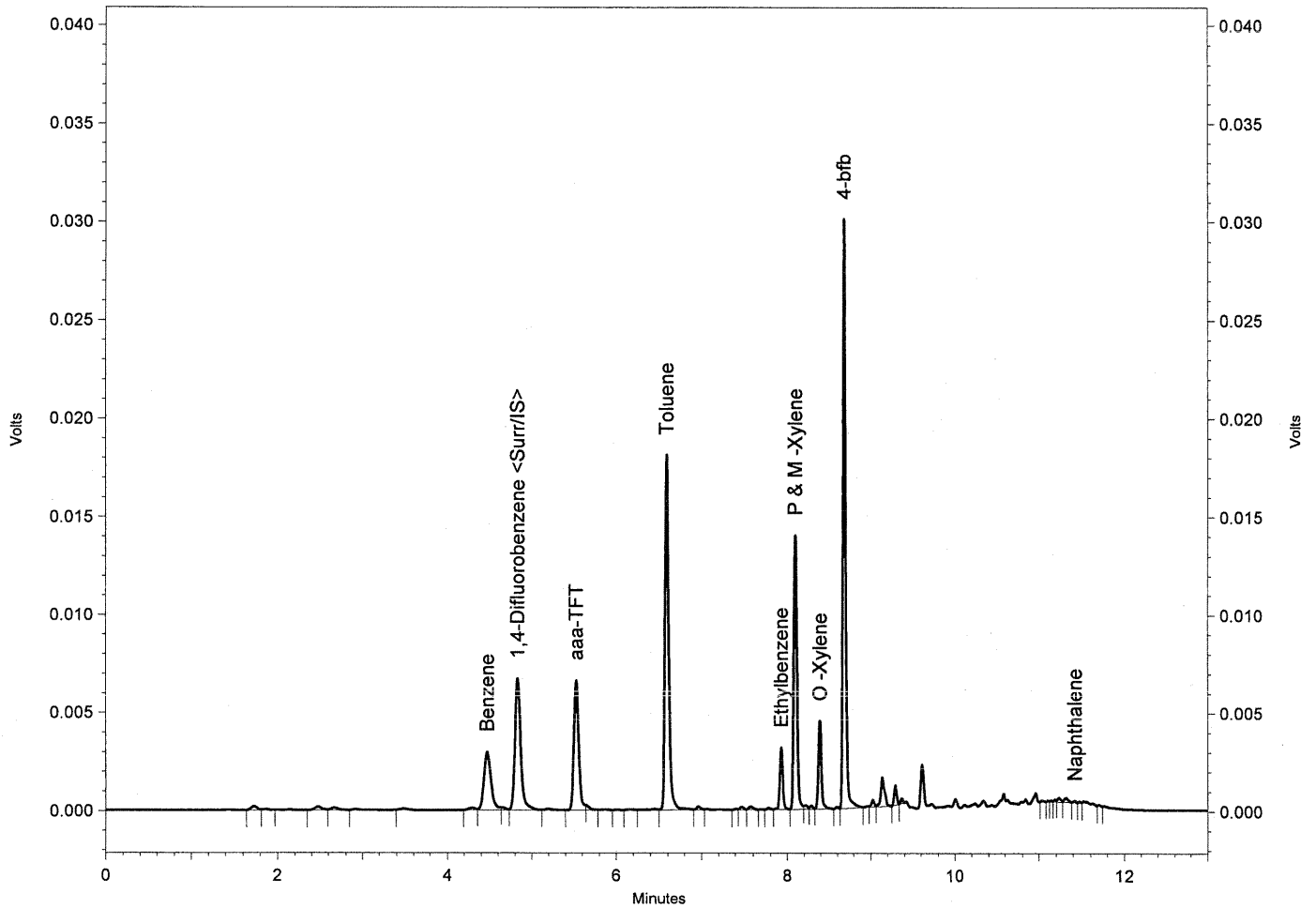
Sample Name: CCV
MCM

Date/Time: 8/29/2006 5:05:52 AM

Analyst:

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met
Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_049.dat
PID

Dilution: 1



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.470	17090	10.533	ppb	VS
1,4-Difluorobenzene <Surr/IS>	4.833	32226	48.489	ppb	VV
aaa-TFT	5.527	26855	0.000	ppb	BS
Toluene	6.590	56183	37.182	ppb	VV
Ethylbenzene	7.930	8028	6.678	ppb	VV
P & M -Xylene	8.097	35959	26.039	ppb	VS
O -Xylene	8.393	11311	8.744	ppb	VB
4-bfb	8.683	71285	53.106	ppb	SV
Naphthalene	11.420	200	1.147 LC	ppb	VB

SGS Environmental Services Inc.

Sample Name: CCV
MCM

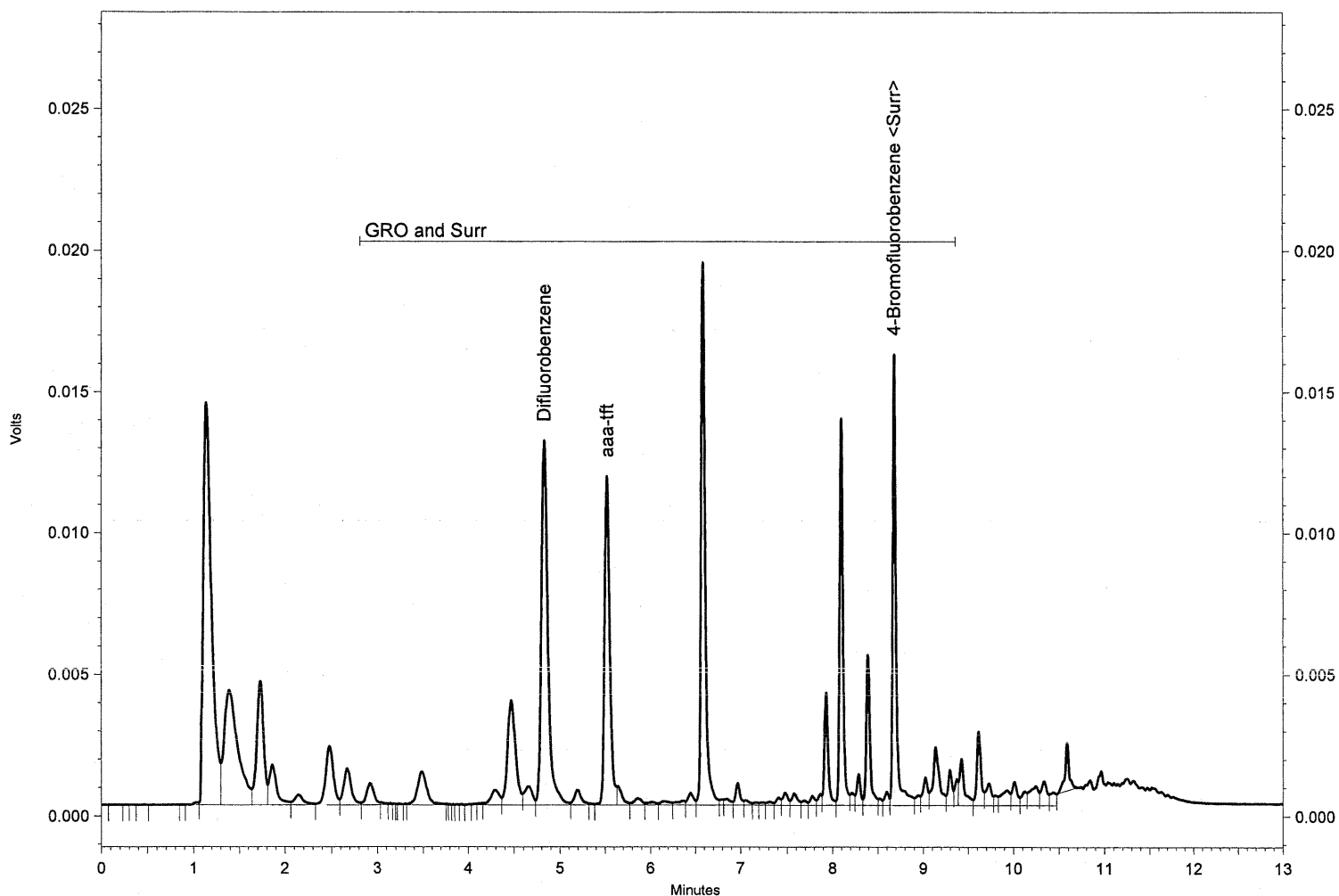
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Analyst:

Method: E:\Public\2006\08\VBA\METHOD\VBA062206C.met
Sample File: E:\Public\2006\08\VBA\Data\082806\VBA06220828_049.dat

Dilution: 1

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.833	64663	49.117	ppb	LL
aaa-tft	5.527	48269	47.636	ppb	LL
4-Bromofluorobenzene <Surr>	8.683	42895	48.337	ppb	LL
GRO		221426	233.106	ppb	
GRO and Surr		377253	397.152	ppb	

SGS Environmental, Inc.

Analytical Quality Control Summary Data

Work Order(s):

1064669, 1064852, 1064866, 1064875, 1064881

Queue: VFC

Batch: 8005

Method:

AK101, AK101 8021B, AK101/8021B

Run Date:

08/30/06 09:55 - 08/30/06 22:34

Extraction Batch(es): VXX15877

QC Parameter	Goals Met?		
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Instrument/Method Blank:	<input checked="" type="radio"/>	N	N/A
Initial/Continuing Calibration Verifications:	<input checked="" type="radio"/>	N	N/A
Laboratory Control Sample:	<input checked="" type="radio"/>	N	N/A
Laboratory Control Sample Duplicate:	Y	N	N/A
Relative Percent Difference:	Y	N	N/A
Sample Duplicate:	Y	N	N/A
Matrix Spike:	<input checked="" type="radio"/>	N	N/A
Matrix Spike Duplicate:	Y	N	N/A
Relative Percent Difference:	Y	N	N/A
Surrogates:	Y	N	N/A
Sample Holding Time:	<input checked="" type="radio"/>	N	N/A
Internal Standards	<input checked="" type="radio"/>	N	N/A
GCMS Tuner/DDT Sample	Y	N	N/A

See case narrative/sample comments for further information : ✓

Additional Notes:

Is there any further action necessary for any out of control events described above? Y

Should a Corrective Action be initiated? Y

I certify that except as specifically noted in this report, all statements and data appearing in this report are in conformance with the provisions of the Quality Assurance Plan (QAP) prepared by this firm and on file with the Alaska Department of Environmental Conservation.

Analyst's Signature:

Hisem Mehmeti

Reviewer's Signature

Shawn Pastor

Date:

8/31/06

Date:

8-31-06

SGS Environmental Services Inc.

Sample Name: IB

Date/Time: 8/30/2006 9:55:37 AM

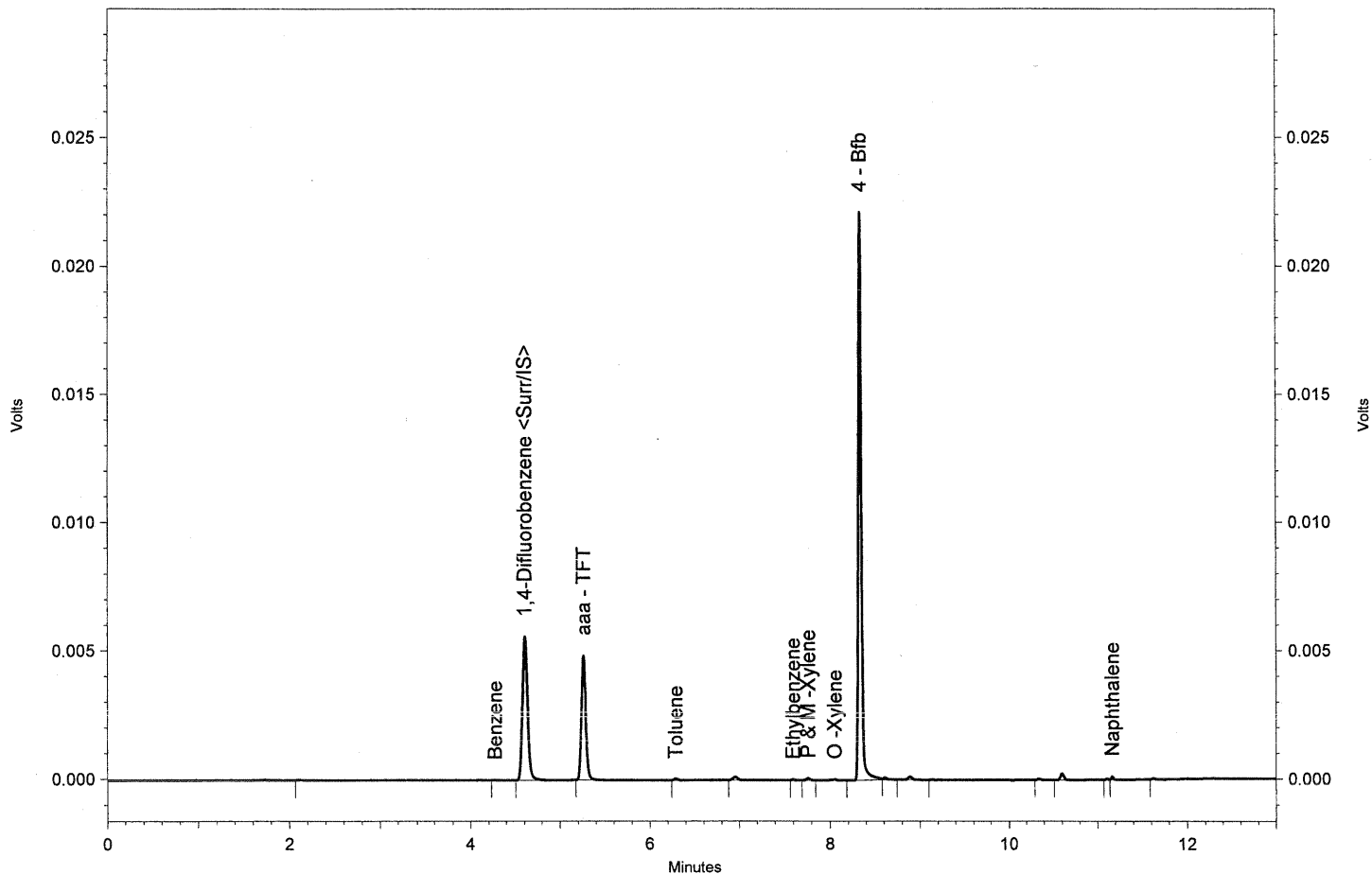
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_001.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.277	47	0.044 LC	ppb	BB
1,4-Difluorobenzene <Surr/IS>	4.607	21539	54.185	ppb	BB
aaa - TFT	5.263	17281	0.000	ppb	BB
Toluene	6.287	168	0.172 LC	ppb	BB
Ethylbenzene	7.600	64	0.077 LC	ppb	BB
P & M -Xylene	7.767	212	0.215 LC	ppb	BV
O -Xylene	8.053	150	0.170 LC	ppb	VB
4 - Bfb	8.333	52632	54.478	ppb	BV
Naphthalene	11.167	244	0.546 LC	ppb	SB

SGS Environmental Services Inc.

Sample Name: IB

Date/Time: 8/30/2006 9:55:37 AM

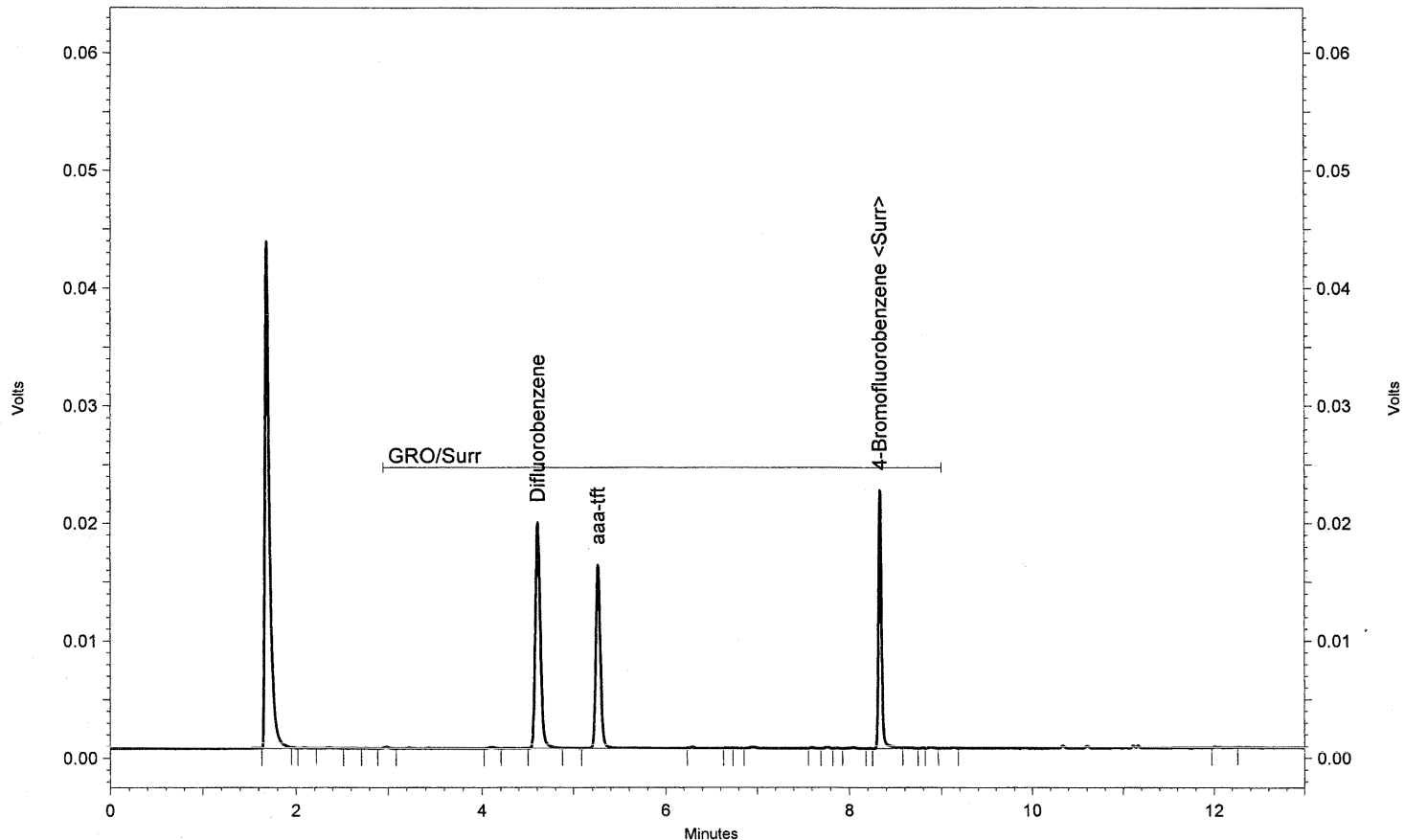
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_001.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.607	74708	42.227	ppb	LL
aaa-tft	5.263	56598	38.238	ppb	LL
4-Bromofluorobenzene <Surr>	8.333	52794	40.375	ppb	LL
GRO		6714	4.474	LC	ppb
GRO/Surr		190814	127.166	ppb	

SGS Environmental Services Inc.

Sample Name: C6-C10

Date/Time: 8/30/2006 10:14:52 AM

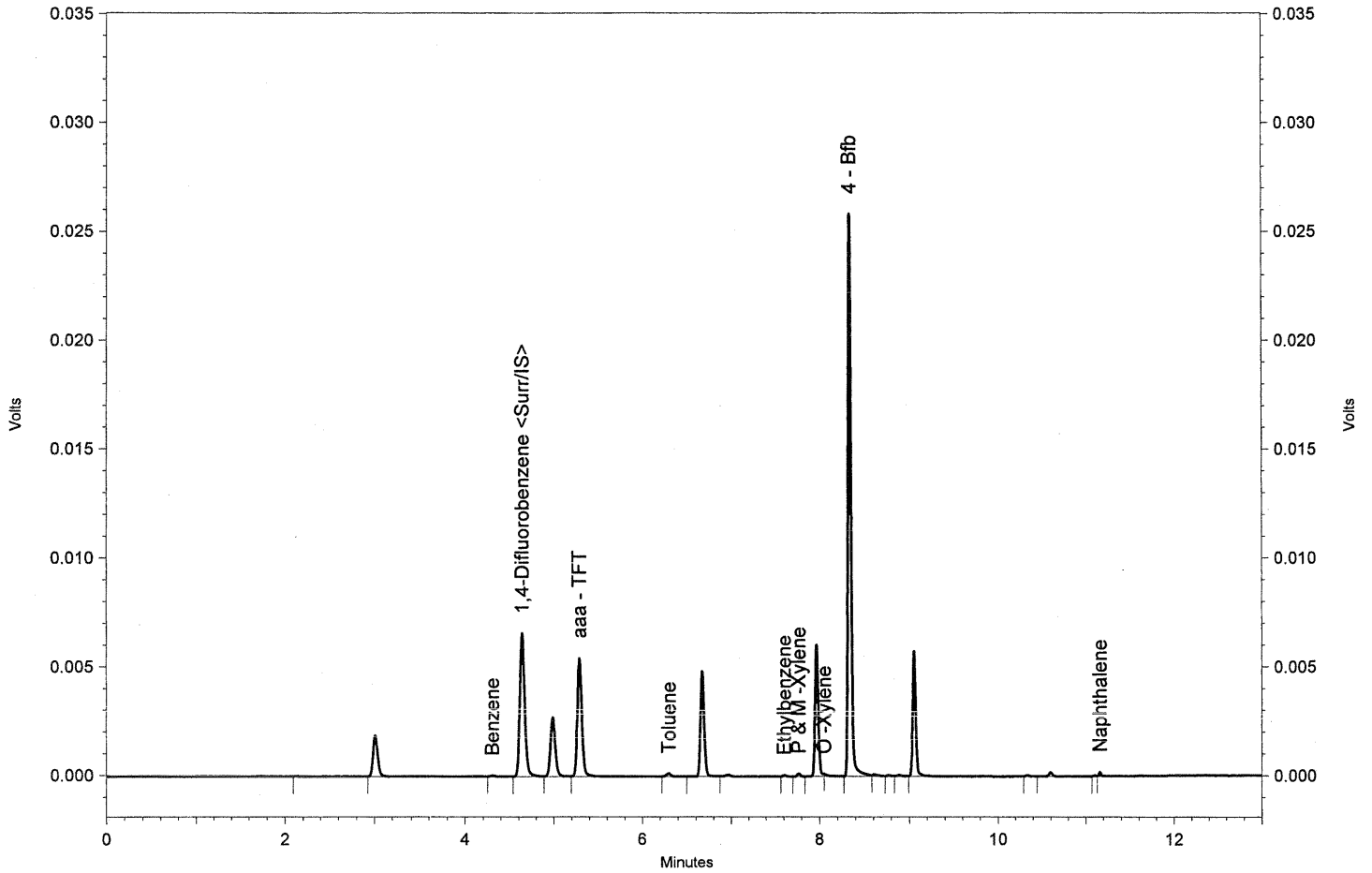
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_002.dat

PID



PID Detector

PID Results						
Name	R.T.	Area	Concentration	Units	Codes	
Benzene	4.307	135	0.112 LC	ppb	BB	
1,4-Difluorobenzene <Surr/IS>	4.643	25834	57.426	ppb	BV	
aaa - TFT	5.290	19557	0.000	ppb	VB	
Toluene	6.297	498	0.450 LC	ppb	BB	
Ethylbenzene	7.607	133	0.141 LC	ppb	BB	
P & M -Xylene	7.773	323	0.289 LC	ppb	BB	
O -Xylene	8.053	245	0.245 LC	ppb	SB	
4 - Bfb	8.337	60336	55.185	ppb	BV	
Naphthalene	11.163	361	0.713 LC	ppb	SB	

SGS Environmental Services Inc.

Sample Name: C6-C10

Date/Time: 8/30/2006 10:14:52 AM

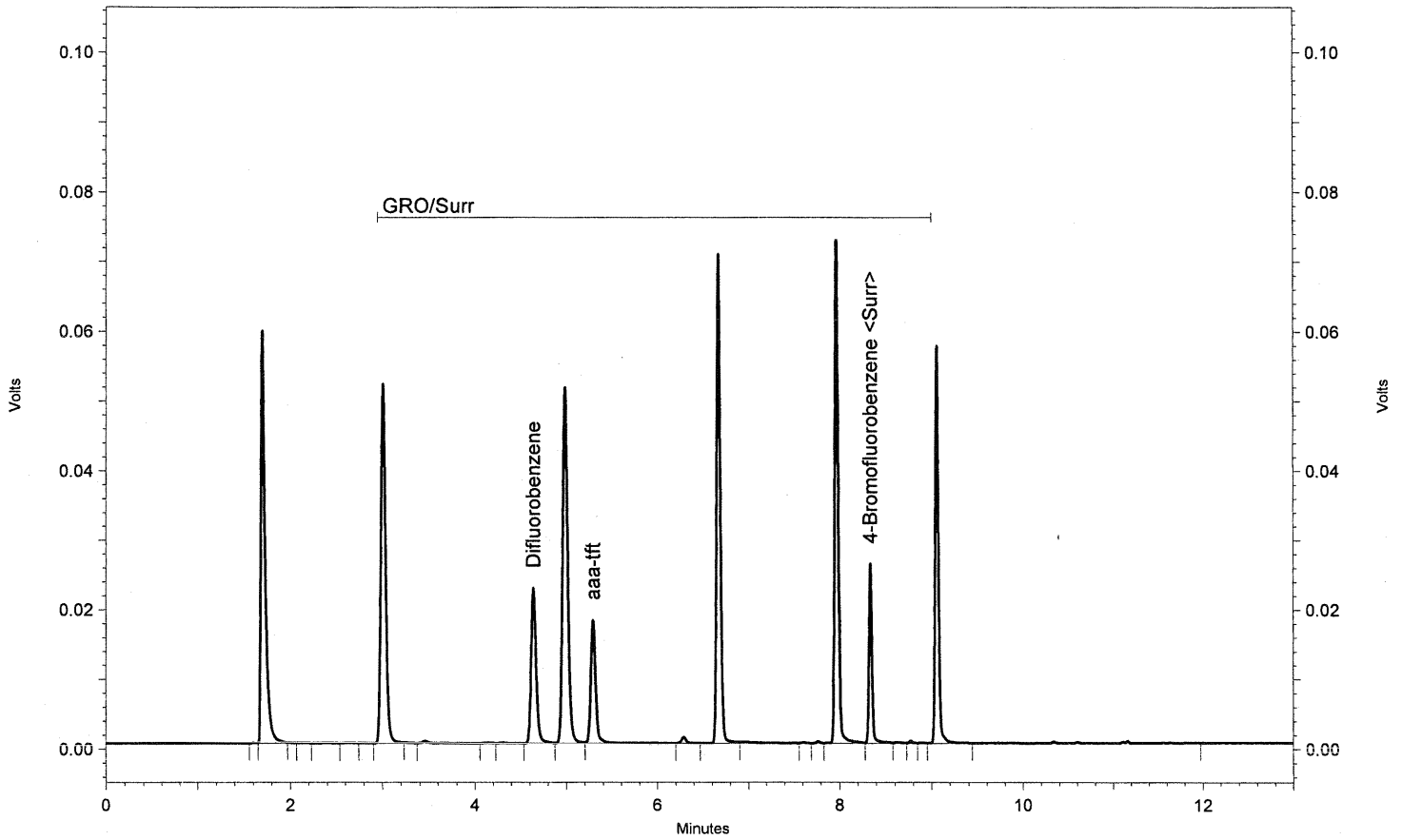
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_002.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.643	87915	49.692	ppb	LL
aaa-tft	5.290	66262	44.767	ppb	LL
4-Bromofluorobenzene <Surr>	8.340	61197	46.801	ppb	LL
GRO		791314	527.363	ppb	
GRO/Surr		1006688	670.897	ppb	

SGS Environmental Services Inc.

Sample Name: CCV2

Date/Time: 8/30/2006 10:34:14 AM

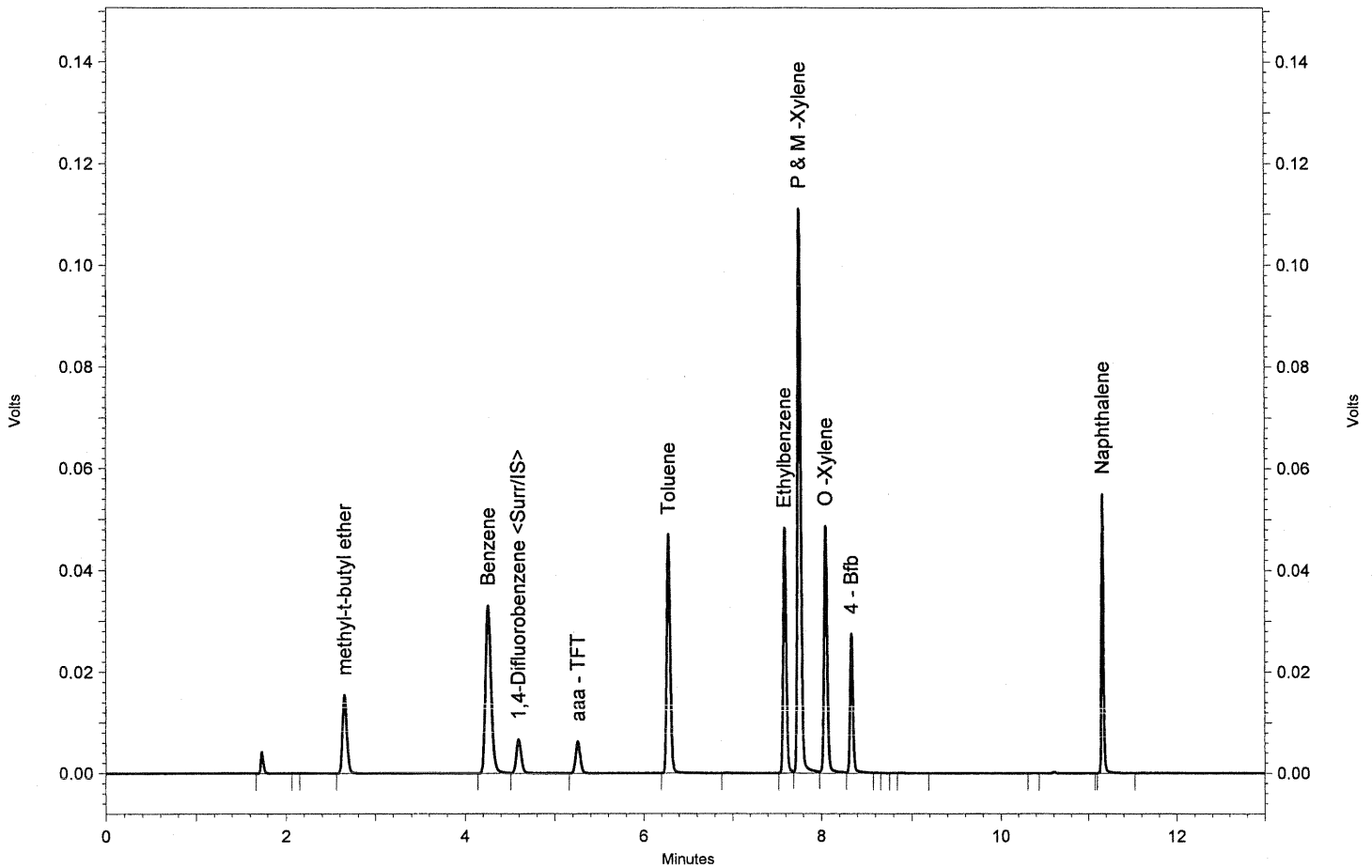
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_003.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.653	53656	106.102	ppb	BB
Benzene	4.263	146186	103.822	ppb	BV
1,4-Difluorobenzene <Surr/IS>	4.597	26112	49.646	ppb	VB
aaa - TFT	5.257	22865	0.000	ppb	BB
Toluene	6.283	133310	103.111	ppb	BB
Ethylbenzene	7.590	120515	109.084	ppb	BV
P & M -Xylene	7.760	288256	220.584	ppb	VV
O -Xylene	8.050	122703	104.931	ppb	VV
4 - Bfb	8.337	63723	49.850	ppb	VV
Naphthalene	11.163	91538	154.690	ppb	SV

SGS Environmental Services Inc.

Sample Name: CCV2

Date/Time: 8/30/2006 10:34:14 AM

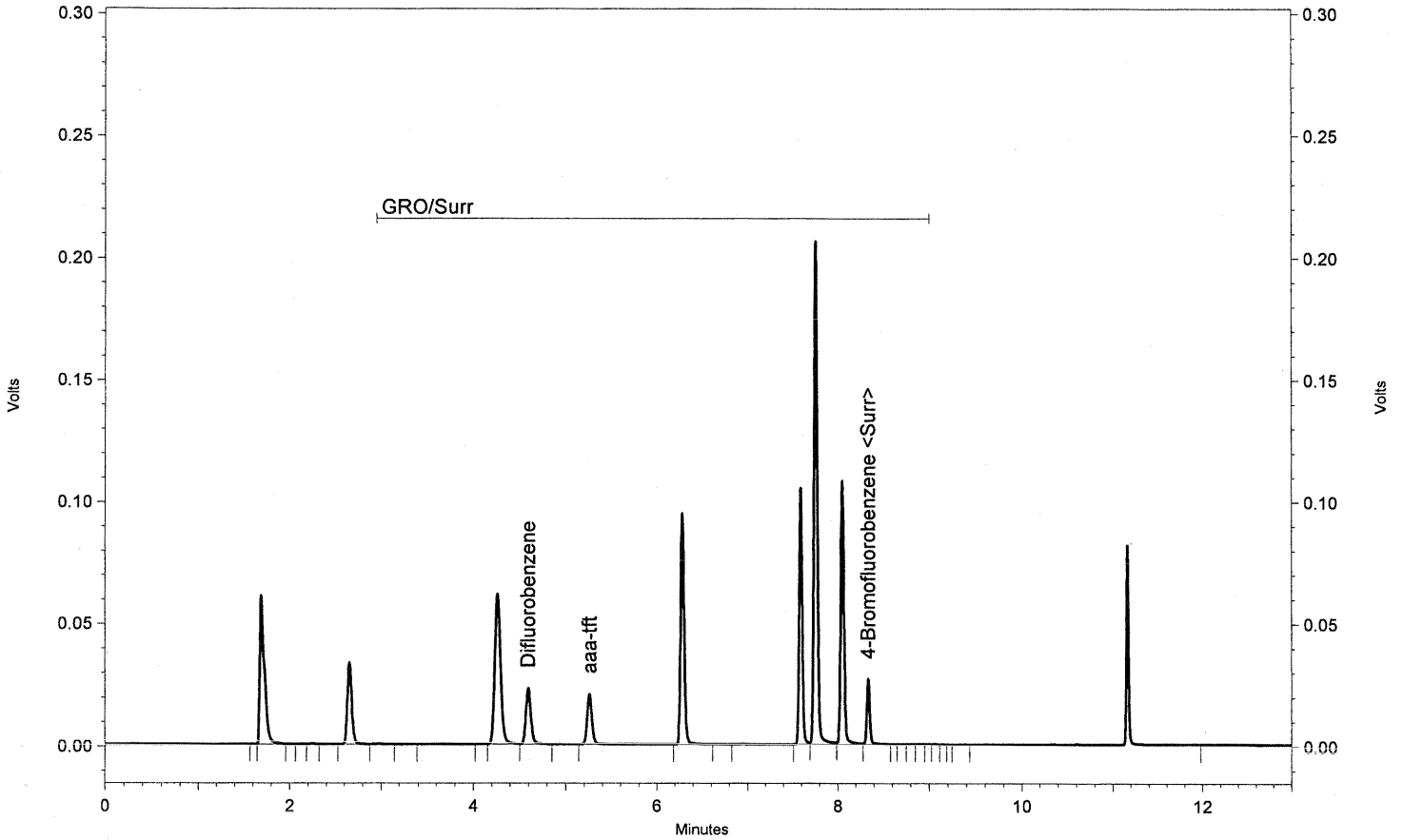
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_003.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.597	90110	50.933	ppb	LL
aaa-tft	5.257	76014	51.355	ppb	LL
4-Bromofluorobenzene <Surr>	8.337	64555	49.370	ppb	LL
GRO		1615077	1076.352	ppb	
GRO/Surr		1845756	1230.086	ppb	

SGS Environmental Services Inc.

Sample Name: CCV

Date/Time: 8/30/2006 10:53:42 AM

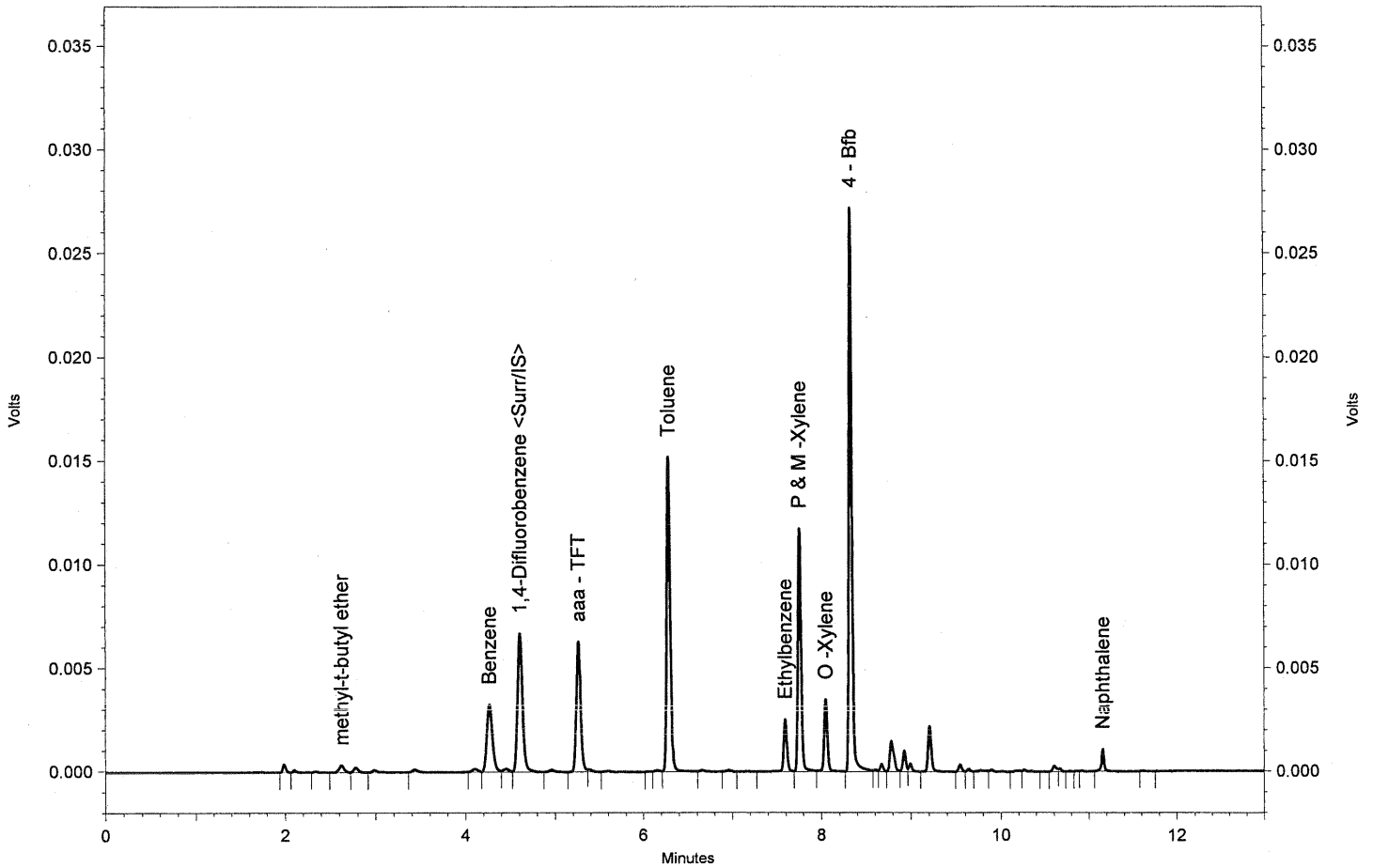
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_004.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.623	1435	2.855	ppb	BV
Benzene	4.270	14292	10.212	ppb	VV
1,4-Difluorobenzene <Surr/IS>	4.610	26364	50.430	ppb	VV
aaa - TFT	5.263	22727	0.000	ppb	BS
Toluene	6.287	42984	33.449	ppb	VV
Ethylbenzene	7.597	6533	5.949	ppb	VV
P & M -Xylene	7.760	29796	22.939	ppb	VV
O -Xylene	8.050	8967	7.715	ppb	VV
4 - Bfb	8.330	63535	50.005	ppb	VV
Naphthalene	11.160	2376	4.040	ppb	BB

SGS Environmental Services Inc.

Sample Name: CCV

Date/Time: 8/30/2006 10:53:42 AM

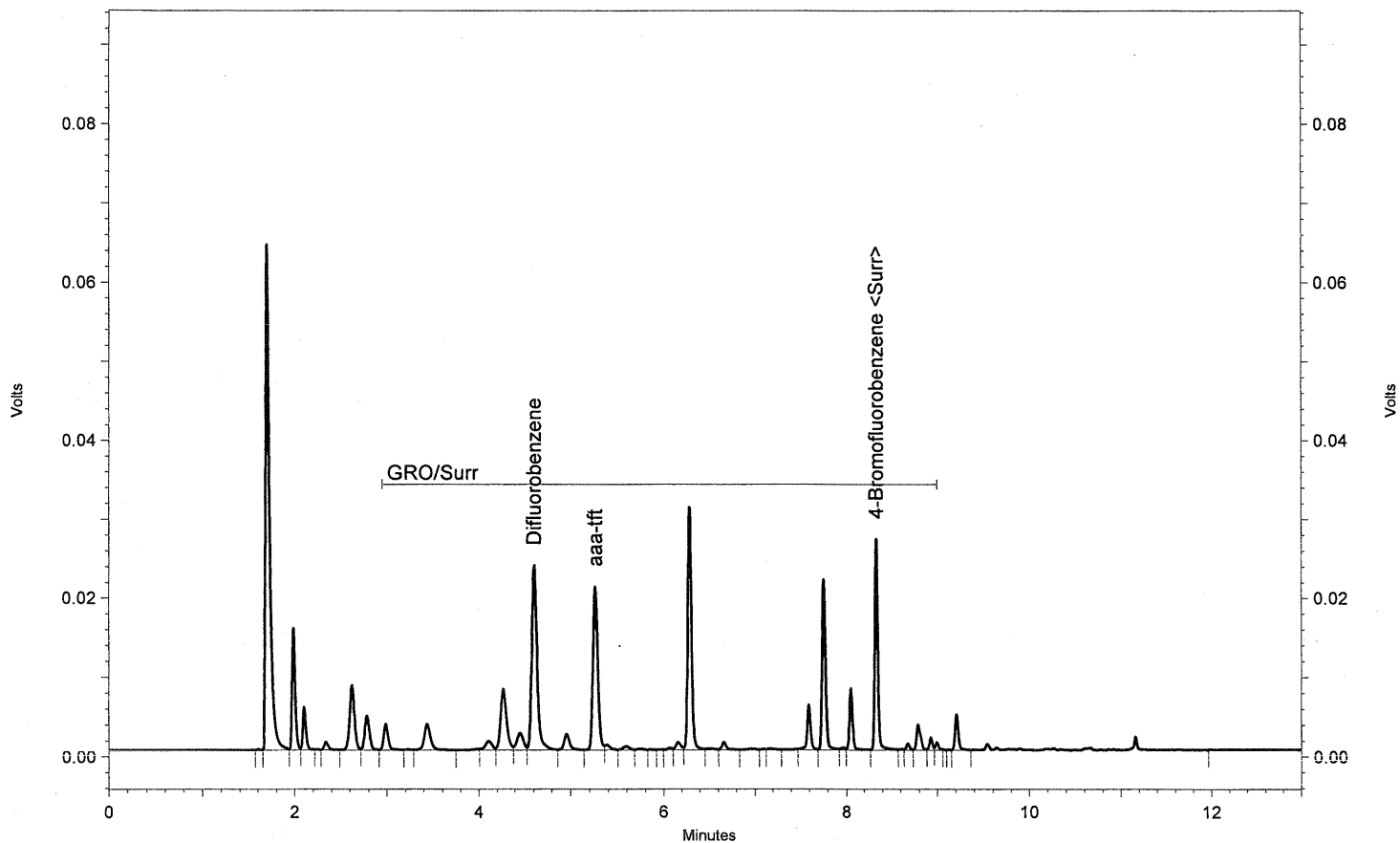
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_004.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.610	94714	53.535	ppb	LL
aaa-tft	5.263	74723	50.483	ppb	LL
4-Bromofluorobenzene <Surr>	8.333	63286	48.399	ppb	LL
GRO		312582	208.317	ppb	
GRO/Surr		545305	363.413	ppb	

SGS Environmental Services Inc.

Sample Name: MB-H2O

Date/Time: 8/30/2006 11:13:10 AM

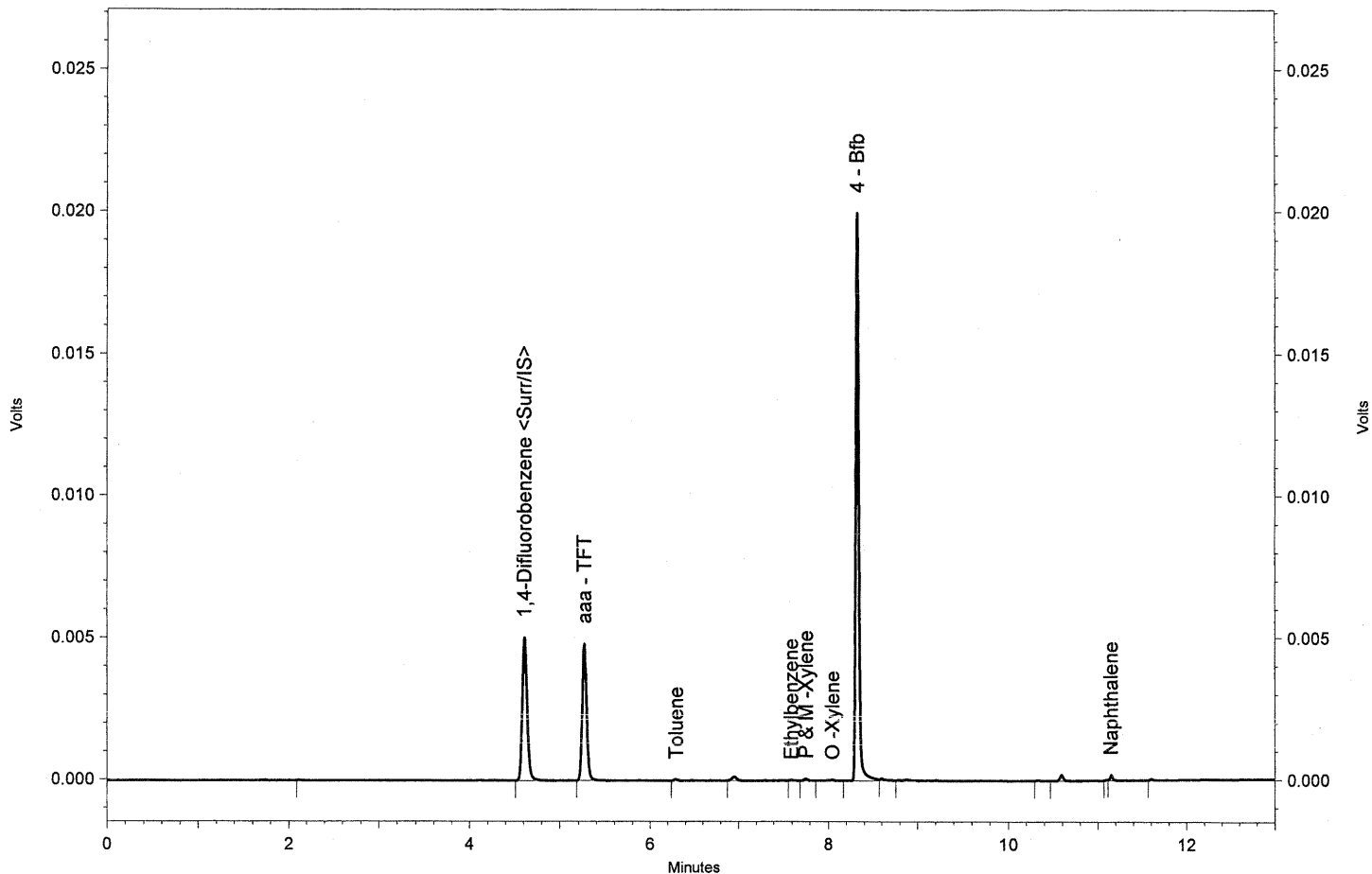
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_005.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
1,4-Difluorobenzene <Surr/IS>	4.613	18975	48.444	ppb	BB
aaa - TFT	5.267	17028	0.000	ppb	BB
Toluene	6.293	156	0.162	LC ppb	BB
Ethylbenzene	7.593	61	0.074	LC ppb	BB
P & M -Xylene	7.760	206	0.212	LC ppb	BV
O -Xylene	8.047	120	0.138	LC ppb	VB
4 - Bfb	8.327	46616	48.968	ppb	BV
Naphthalene	11.150	452	1.026	LC ppb	SB

SGS Environmental Services Inc.

Sample Name: MB-H2O

Date/Time: 8/30/2006 11:13:10 AM

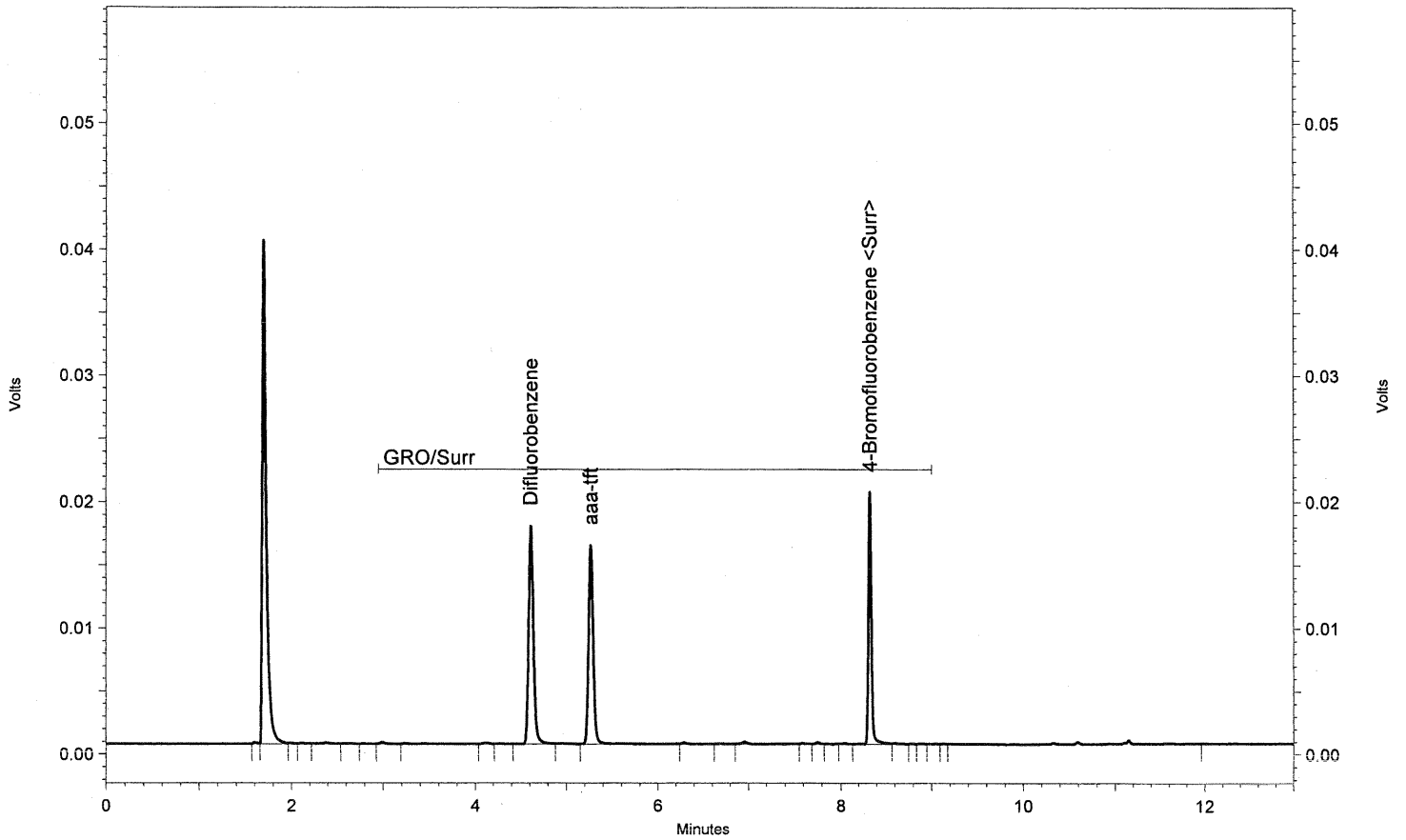
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_005.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.613	65801	37.193	ppb	LL
aaa-tft	5.267	56360	38.077	ppb	LL
4-Bromofluorobenzene <Surr>	8.327	47187	36.087	ppb	LL
GRO		6396	4.263	LC	ppb
GRO/Surr		175744	117.123	ppb	

SGS Environmental Services Inc.

Sample Name: LCS-H2O* BTEX

Date/Time: 8/30/2006 11:32:17 AM

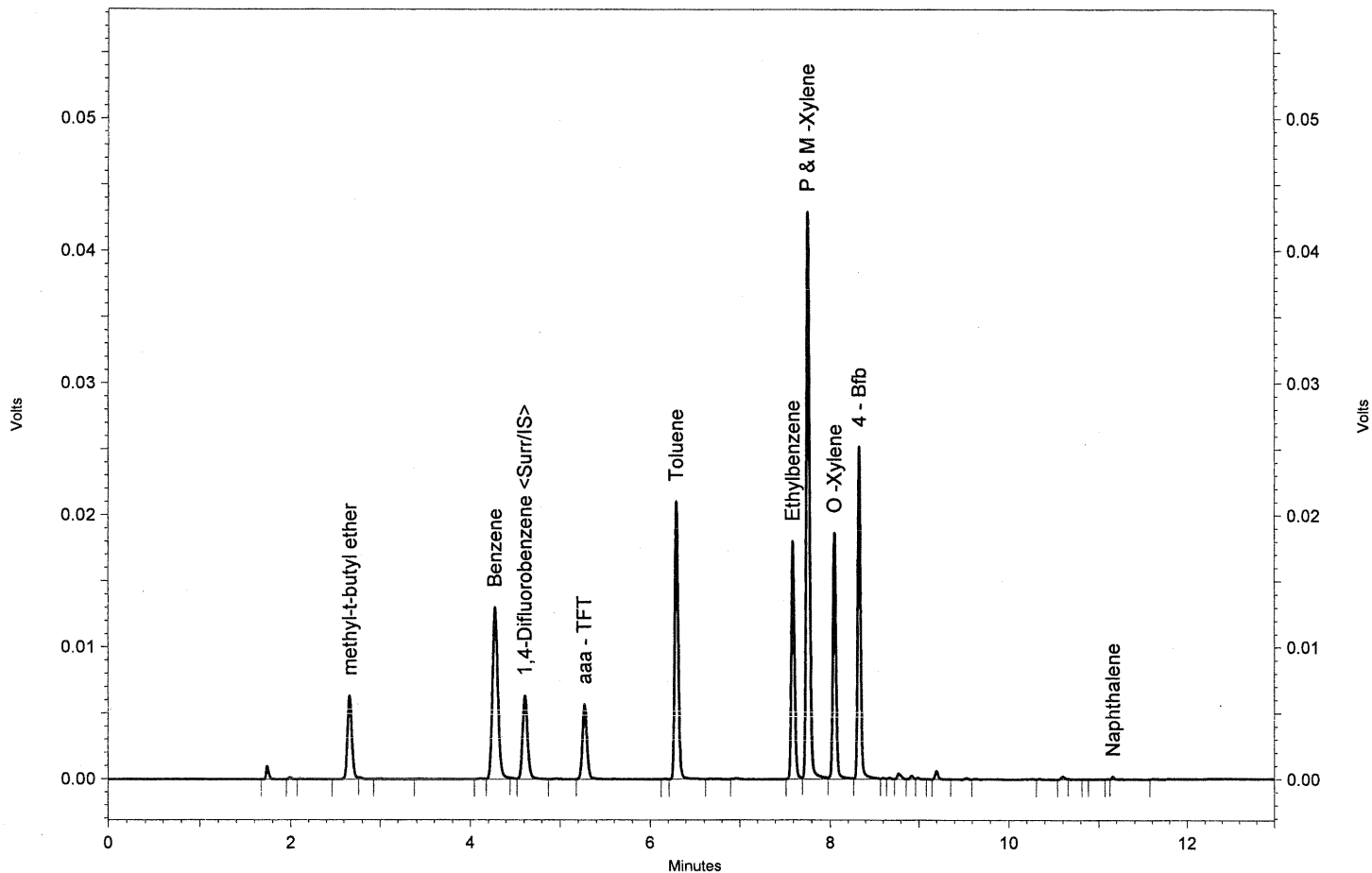
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_006.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.663	21635	47.869	ppb	SS
Benzene	4.277	56332	44.765	ppb	VS
1,4-Difluorobenzene <Surr/IS>	4.610	24684	52.512	ppb	VV
aaa - TFT	5.273	20435	0.000	ppb	BB
Toluene	6.293	59546	51.534	ppb	SV
Ethylbenzene	7.597	43895	44.456	ppb	BV
P & M -Xylene	7.763	109586	93.831	ppb	VV
O -Xylene	8.050	46219	44.225	ppb	VV
4 - Bfb	8.330	58271	51.006	ppb	VV
Naphthalene	11.163	425	0.804	LC ppb	SB

SGS Environmental Services Inc.

Sample Name: LCS-H2O* BTEX

Date/Time: 8/30/2006 11:32:17 AM

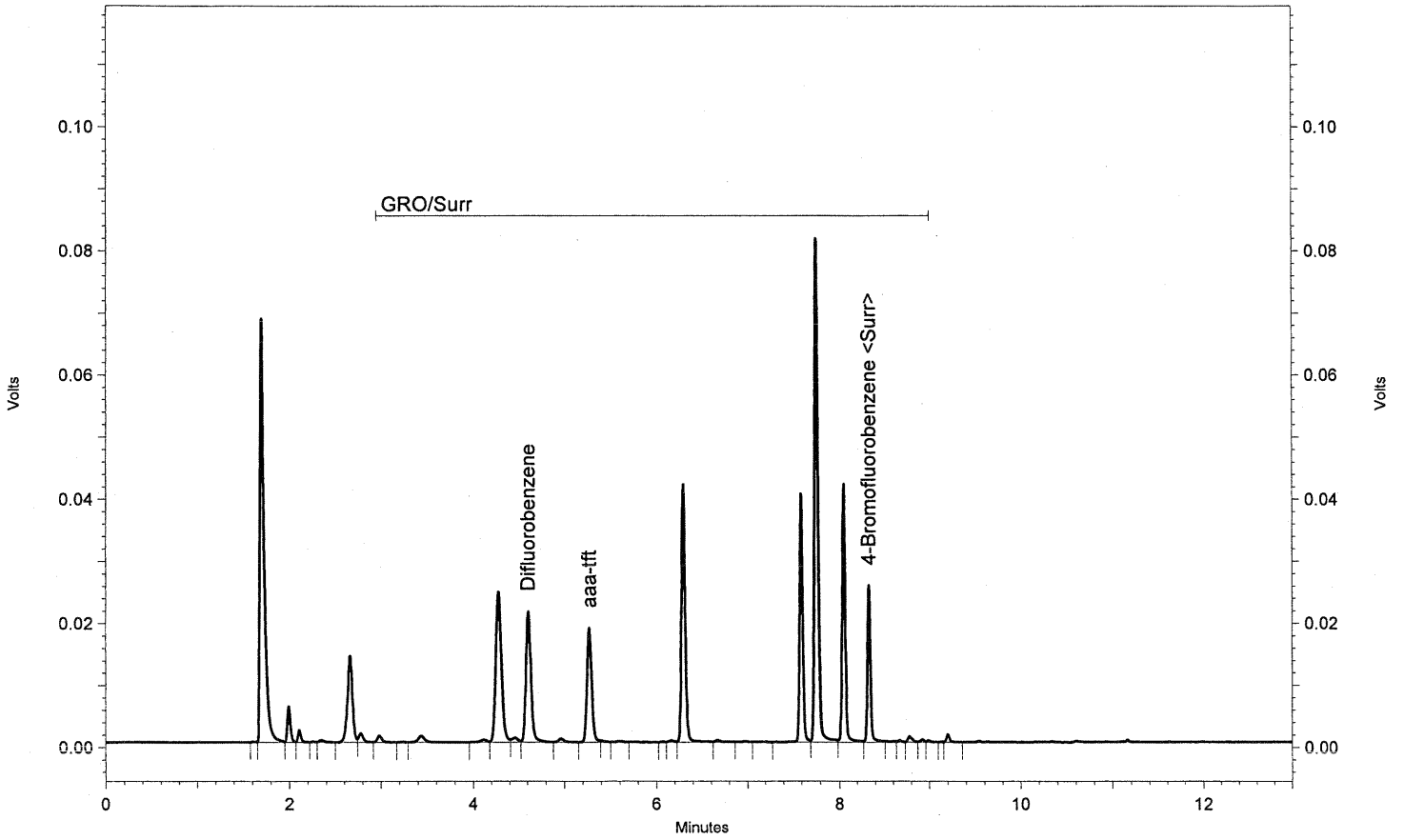
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_006.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.610	83606	47.257	ppb	LL
aaa-tft	5.273	66510	44.934	ppb	LL
4-Bromofluorobenzene <Surr>	8.330	59038	45.150	ppb	LL
GRO		668445	445.479	ppb	
GRO/Surr		877599	584.867	ppb	

SGS Environmental Services Inc.

Sample Name: LCS-H2O* GRO

Date/Time: 8/30/2006 11:51:39 AM

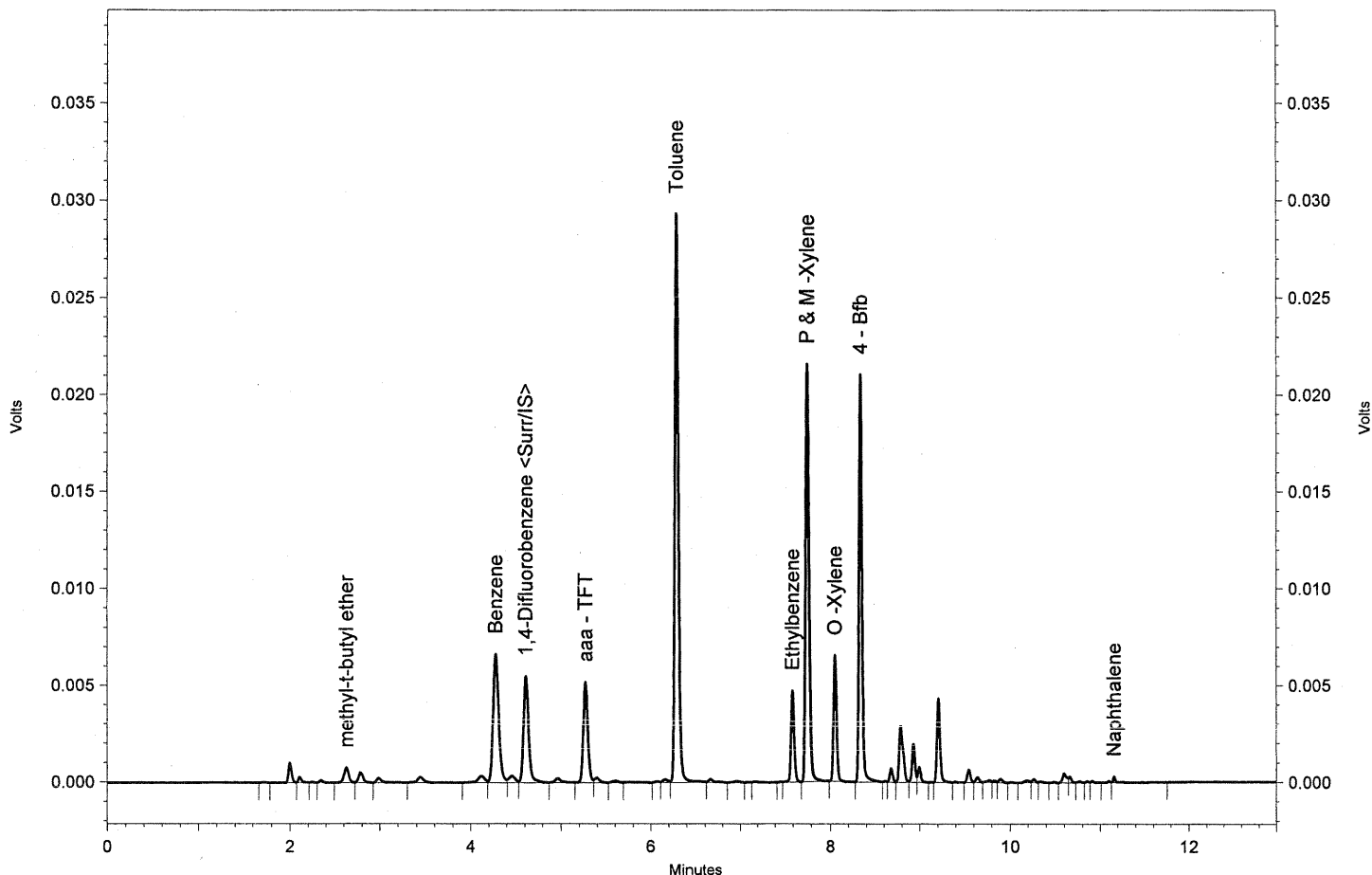
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_007.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.630	2936	7.156	ppb	BV
Benzene	4.280	29150	25.517	ppb	VV
1,4-Difluorobenzene <Surr/IS>	4.613	21593	50.602	ppb	VV
aaa - TFT	5.270	18551	0.000	ppb	VV
Toluene	6.290	83990	80.071	ppb	VV
Ethylbenzene	7.597	11766	13.127	ppb	SB
P & M -Xylene	7.763	54561	51.461	ppb	BB
O -Xylene	8.053	15651	16.497	ppb	SB
4 - Bfb	8.337	48732	46.988	ppb	BV
Naphthalene	11.160	634	1.321 LC	ppb	SB

SGS Environmental Services Inc.

Sample Name: LCS-H2O* GRO

Date/Time: 8/30/2006 11:51:39 AM

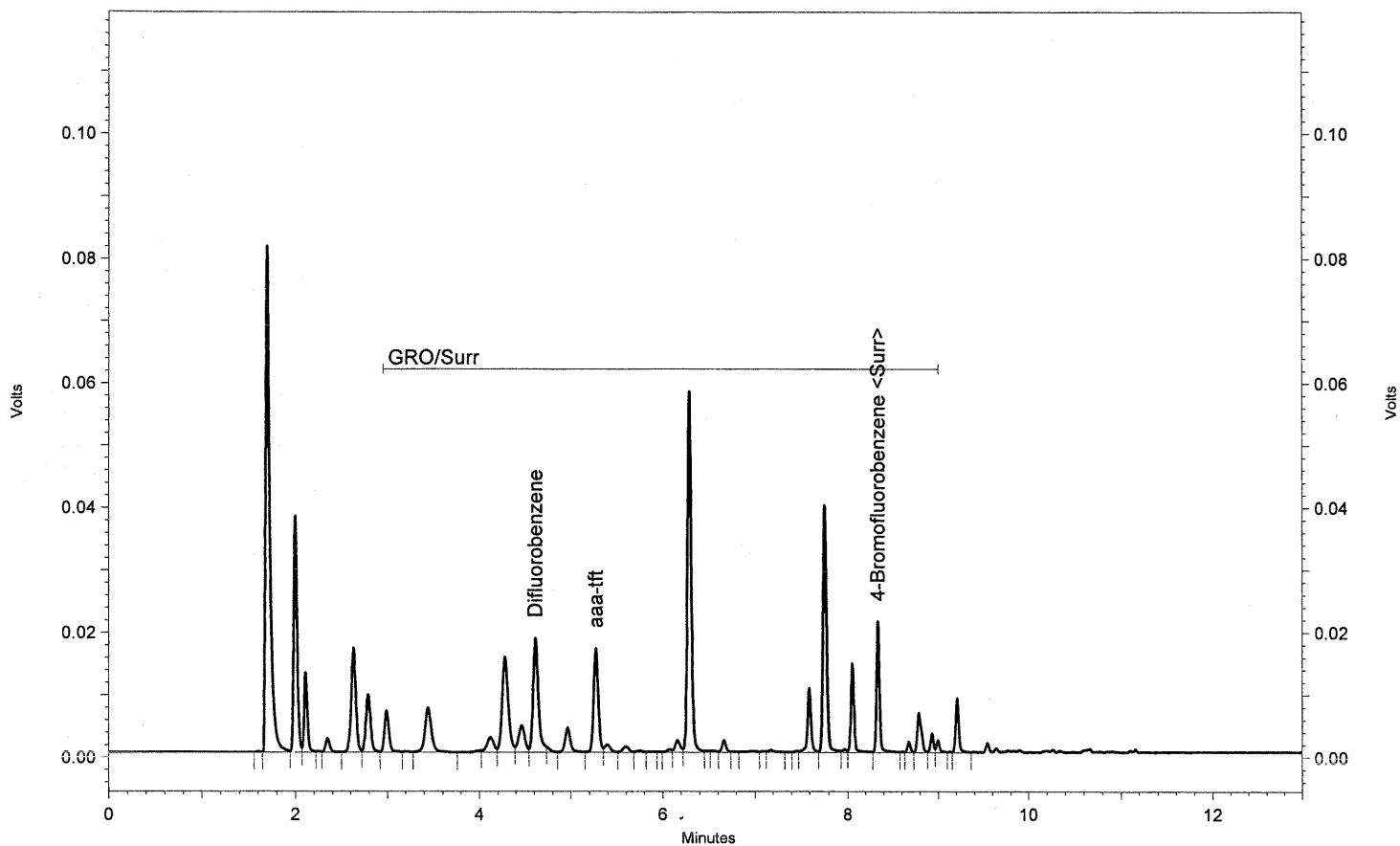
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_007.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.613	74460	42.087	ppb	LL
aaa-tft	5.270	60007	40.541	ppb	LL
4-Bromofluorobenzene <Surr>	8.337	50217	38.404	ppb	LL
GRO		600658	400.303	ppb	
GRO/Surr		785342	523.383	ppb	

SGS Environmental Services Inc.

Sample Name: 1064669001A*MS*BTEX

Date/Time: 8/30/2006 3:30:12 PM

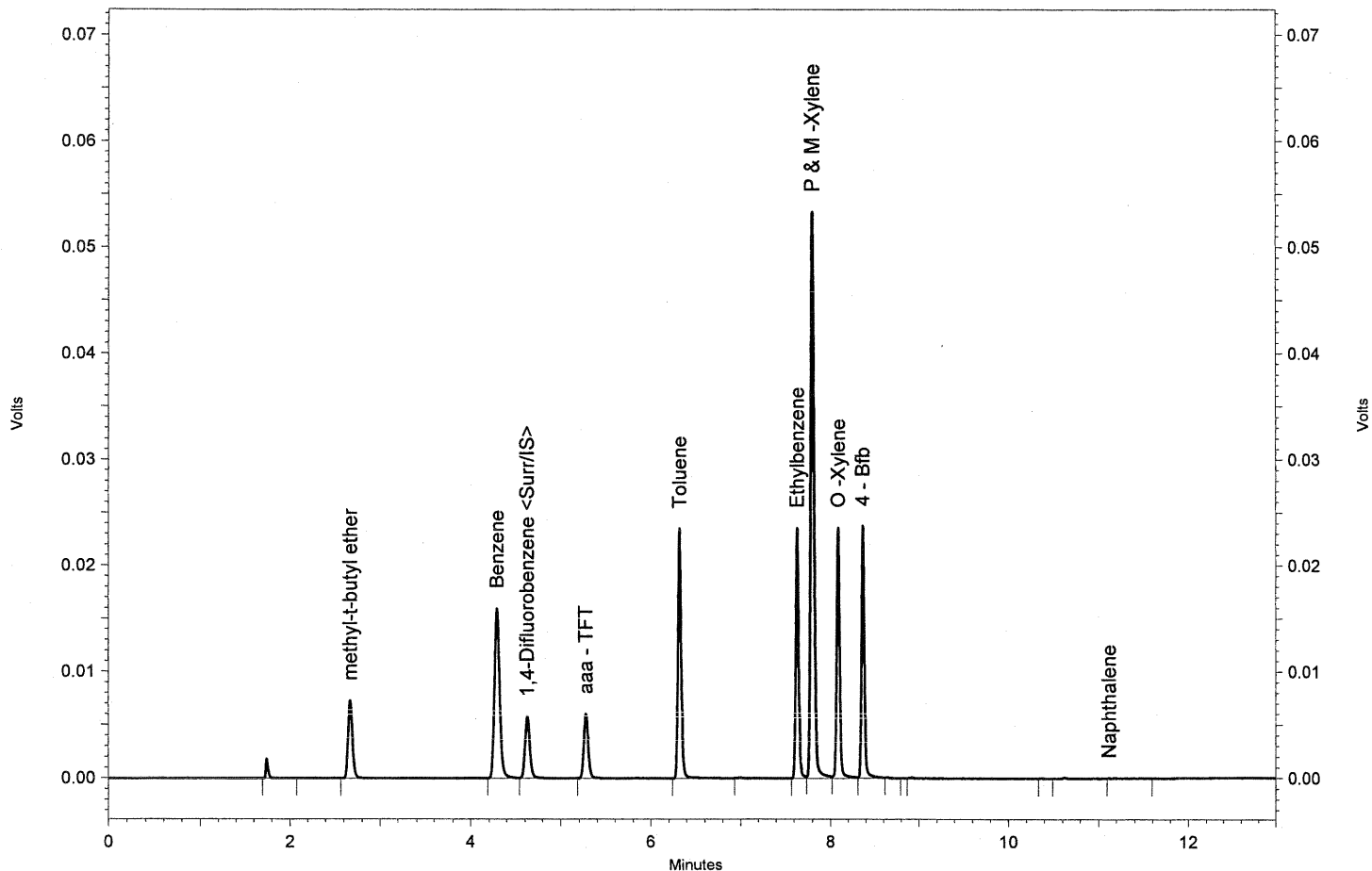
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_018.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.670	24344	51.514	ppb	BB
Benzene	4.293	67082	50.982	ppb	BV
1,4-Difluorobenzene <Surr/IS>	4.627	21825	44.405	ppb	VB
aaa - TFT	5.277	21367	0.000	ppb	BB
Toluene	6.323	64533	53.414	ppb	BB
Ethylbenzene	7.640	56427	54.656	ppb	BV
P & M -Xylene	7.807	135873	111.264	ppb	VV
O -Xylene	8.090	58226	53.284	ppb	VV
4 - Bfb	8.367	54925	45.980	ppb	VV
Naphthalene	11.117	32	0.058 LC	ppb	BS

SGS Environmental Services Inc.

Sample Name: 1064669001A*MS*BTEX

Date/Time: 8/30/2006 3:30:12 PM

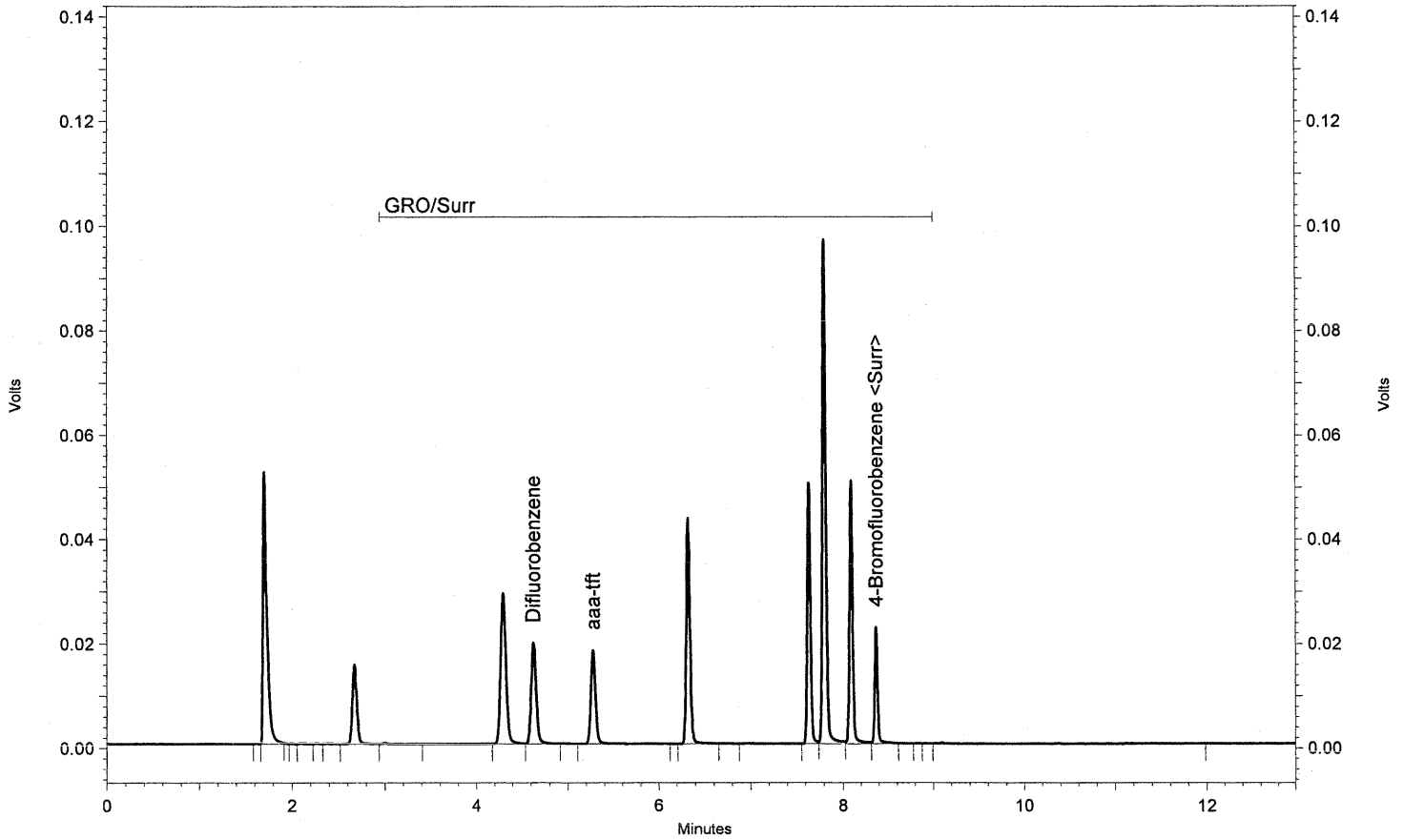
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_018.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.627	73701	41.658	ppb	LL
aaa-tft	5.277	64691	43.705	ppb	LL
4-Bromofluorobenzene <Surr>	8.370	52922	40.473	ppb	LL
GRO		734446	489.464	ppb	
GRO/Surr		925760	616.964	ppb	

SGS Environmental Services Inc.

Sample Name: 1064669001A*MSD*BTEX

Date/Time: 8/30/2006 3:49:40 PM

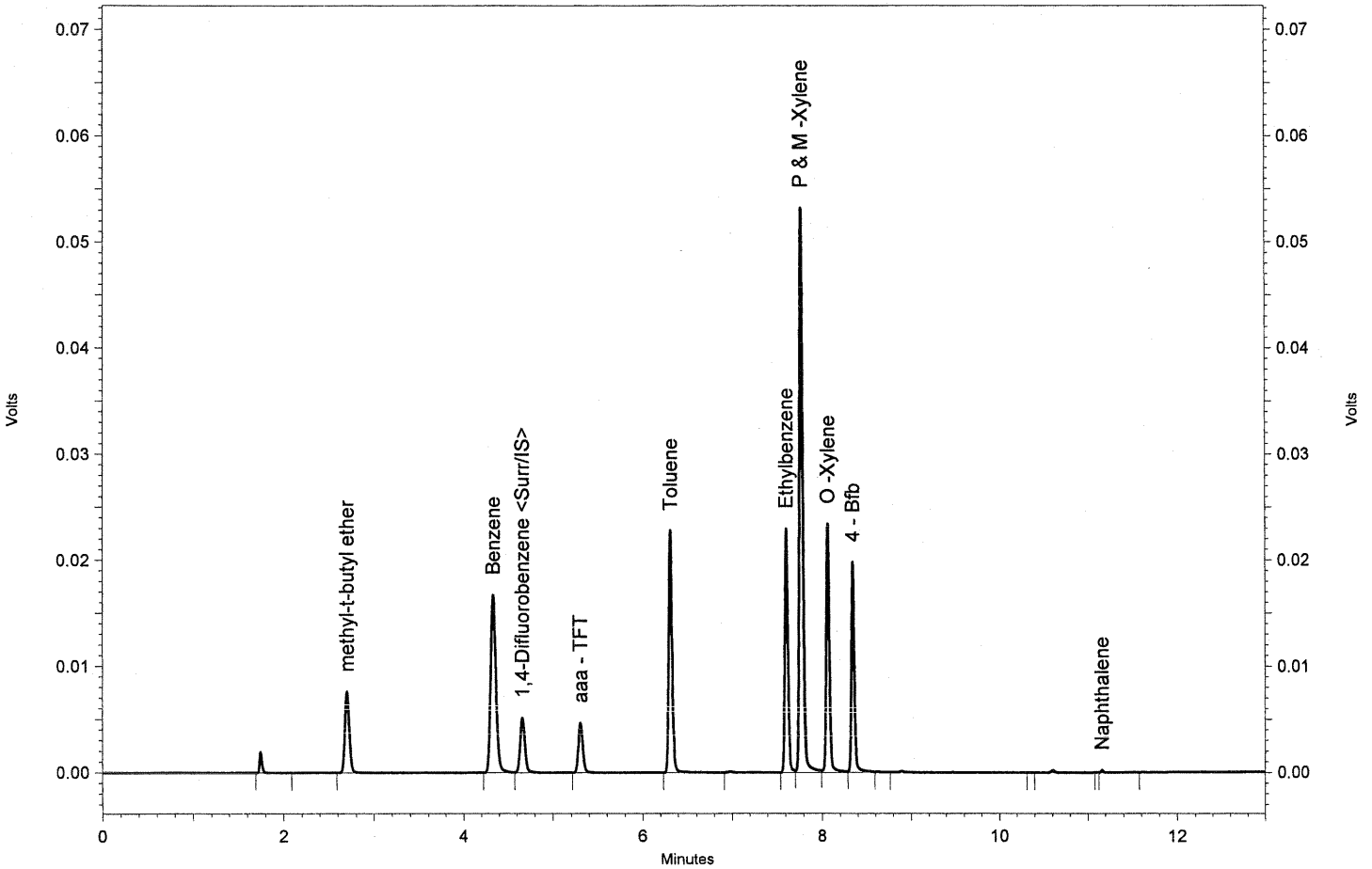
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_019.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.700	25557	71.233	ppb	BB
Benzene	4.337	68499	68.570	ppb	BV
1,4-Difluorobenzene <Surr/IS>	4.663	19023	50.979	ppb	VB
aaa - TFT	5.307	16222	0.000	ppb	BB
Toluene	6.317	63114	68.807	ppb	BB
Ethylbenzene	7.613	56167	71.659	ppb	BV
P & M -Xylene	7.780	135587	146.245	ppb	VV
O -Xylene	8.067	58249	70.211	ppb	VV
4 - Bfb	8.347	46455	51.224	ppb	VV
Naphthalene	11.163	435	1.036 LC	ppb	SB

SGS Environmental Services Inc.

Sample Name: 1064669001A*MSD*BTEX

Date/Time: 8/30/2006 3:49:40 PM

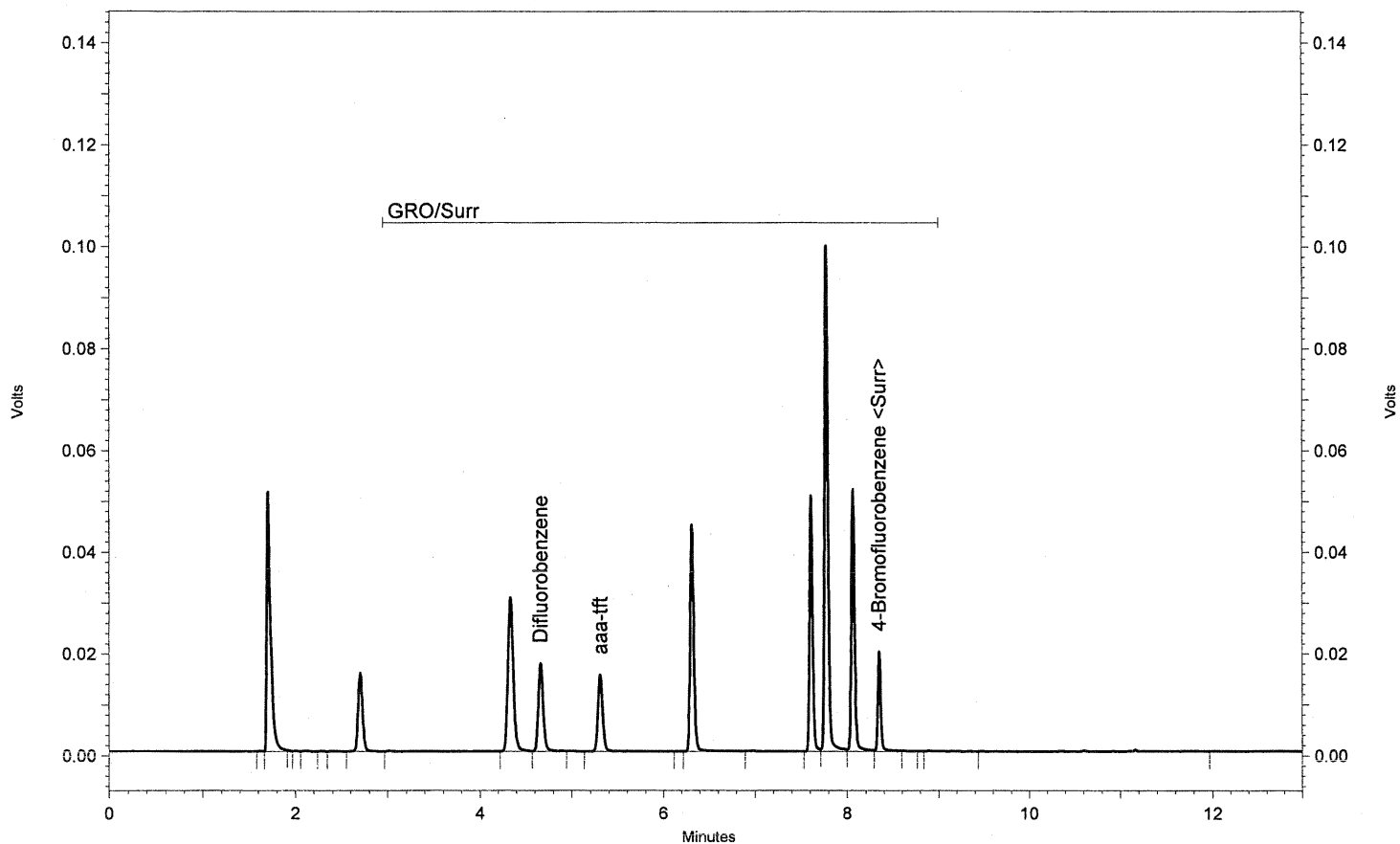
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_019.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.663	64458	36.434	ppb	LL
aaa-tft	5.307	53317	36.021	ppb	LL
4-Bromofluorobenzene <Surr>	8.347	47459	36.295	ppb	LL
GRO		757972	505.143	ppb	
GRO/Surr		923206	615.262	ppb	

SGS Environmental Services Inc.

Sample Name: 1064669001A*MS*GRO

Date/Time: 8/30/2006 4:09:09 PM

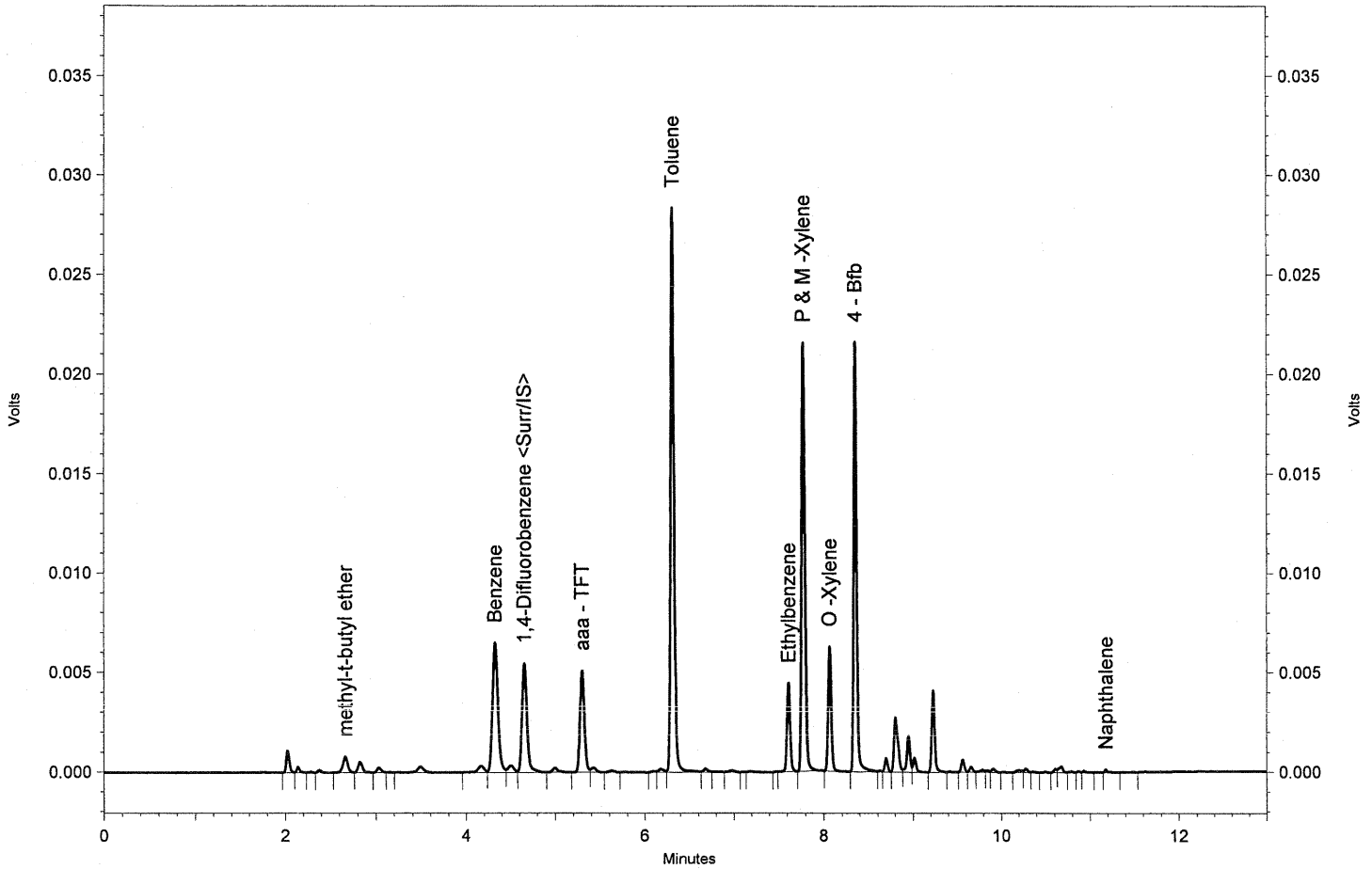
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_020.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.667	3046	7.706	ppb	BV
Benzene	4.327	27444	24.935	ppb	VV
1,4-Difluorobenzene <Surr/IS>	4.657	20961	50.984	ppb	VV
aaa - TFT	5.300	17873	0.000	ppb	VV
Toluene	6.317	78757	77.930	ppb	VV
Ethylbenzene	7.620	11017	12.757	ppb	SB
P & M -Xylene	7.783	52999	51.884	ppb	BS
O -Xylene	8.067	15004	16.415	ppb	BB
4 - Bfb	8.350	49972	50.012	ppb	BV
Naphthalene	11.180	320	0.692 LC	ppb	SV

SGS Environmental Services Inc.

Sample Name: 1064669001A*MS*GRO

Date/Time: 8/30/2006 4:09:09 PM

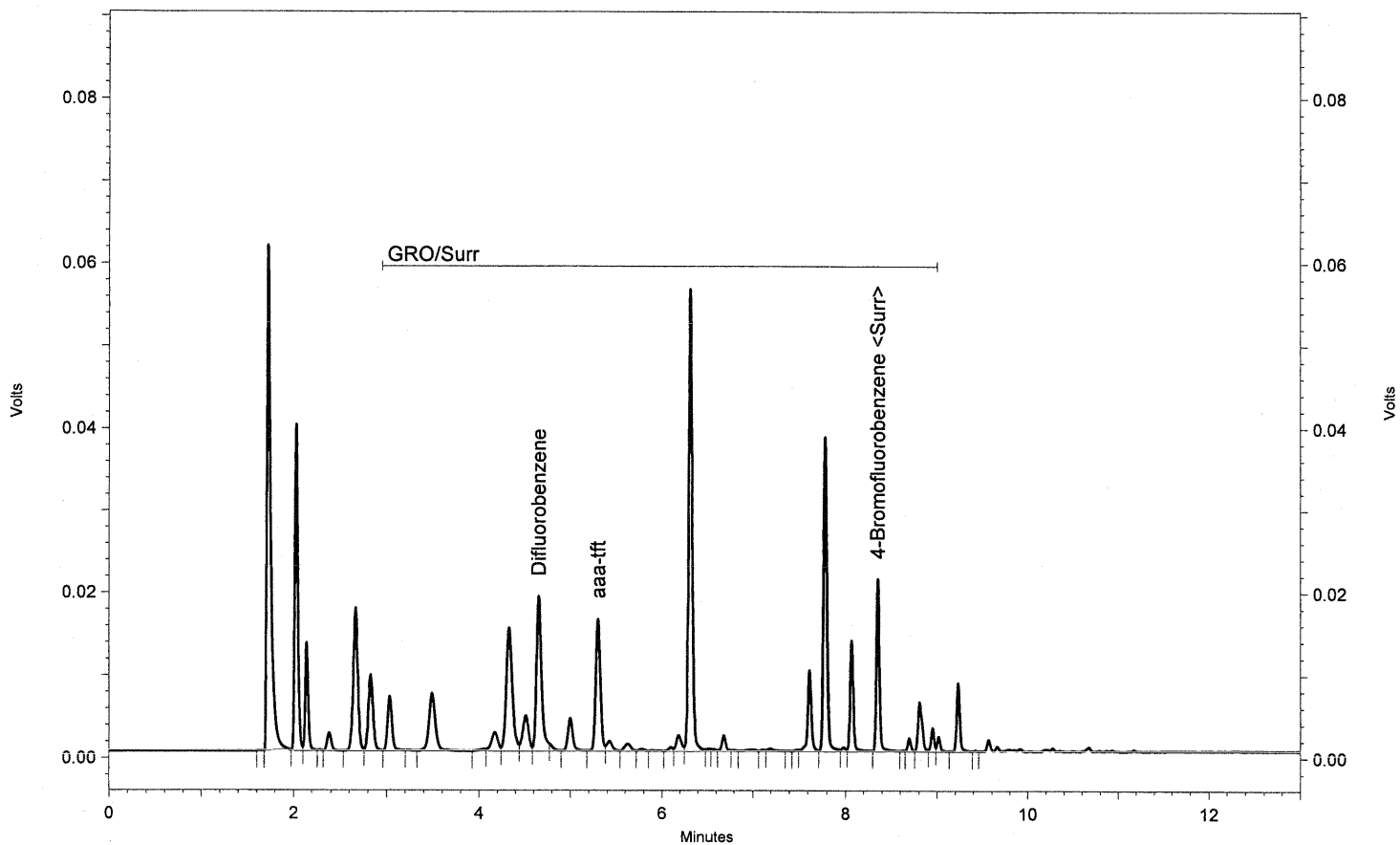
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_020.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.657	74111	41.890	ppb	LL
aaa-tft	5.300	56454	38.140	ppb	LL
4-Bromofluorobenzene <Surr>	8.353	49732	38.033	ppb	LL
GRO		564408	376.144	ppb	
GRO/Surr		744705	496.301	ppb	

SGS Environmental Services Inc.

Sample Name: 1064669001A*MSD*GRO

Date/Time: 8/30/2006 4:28:30 PM

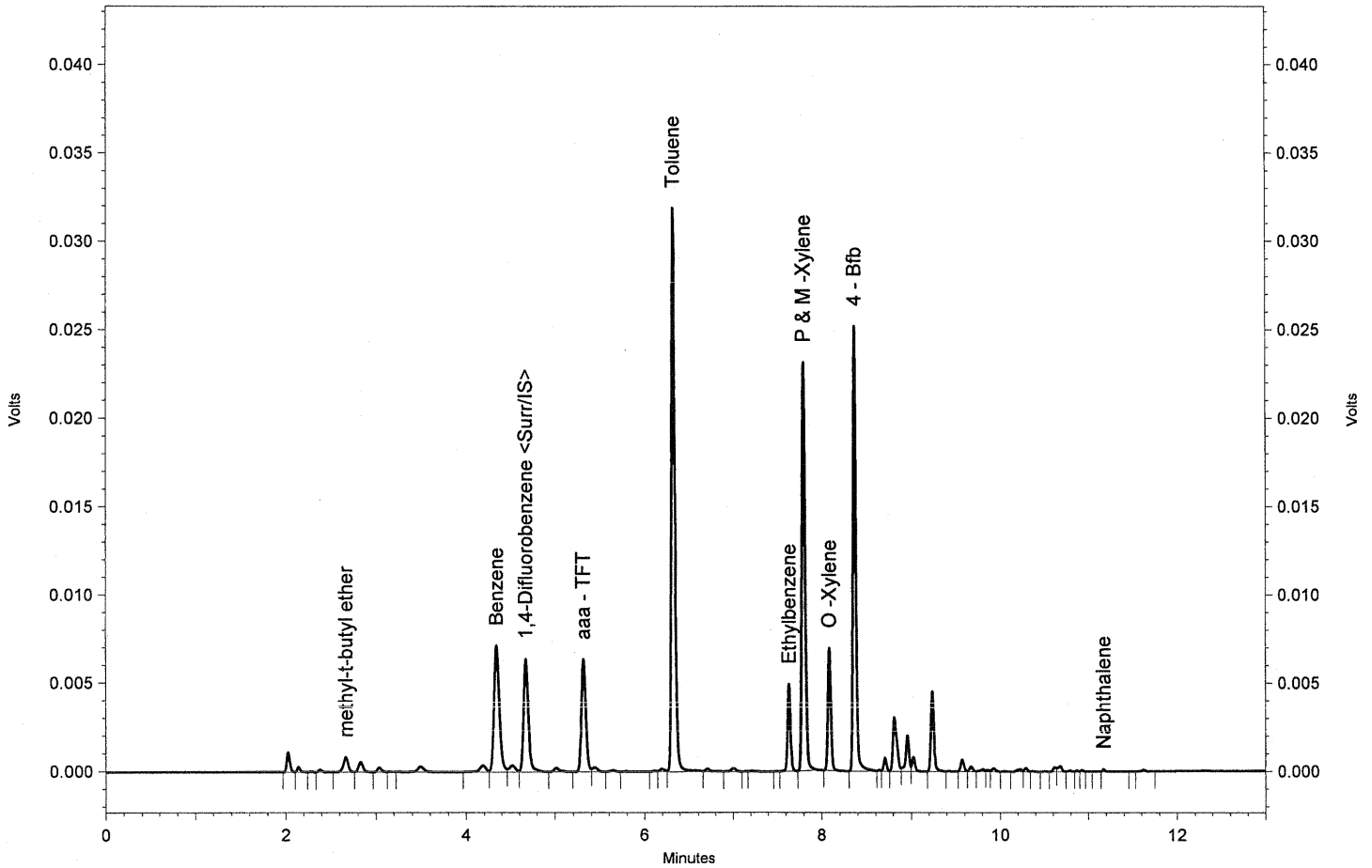
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_021.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.670	3235	6.765	ppb	BV
Benzene	4.343	30246	22.717	ppb	VV
1,4-Difluorobenzene <Surr/IS>	4.673	24537	49.336	ppb	VV
aaa - TFT	5.313	21621	0.000	ppb	VV
Toluene	6.330	90141	73.733	ppb	VV
Ethylbenzene	7.640	11924	11.414	ppb	SB
P & M -Xylene	7.803	56769	45.941	ppb	BS
O -Xylene	8.087	16302	14.743	ppb	BB
4 - Bfb	8.367	57504	47.574	ppb	BV
Naphthalene	11.173	319	0.570 LC	ppb	SB

SGS Environmental Services Inc.

Sample Name: 1064669001A*MSD*GRO

Date/Time: 8/30/2006 4:28:30 PM

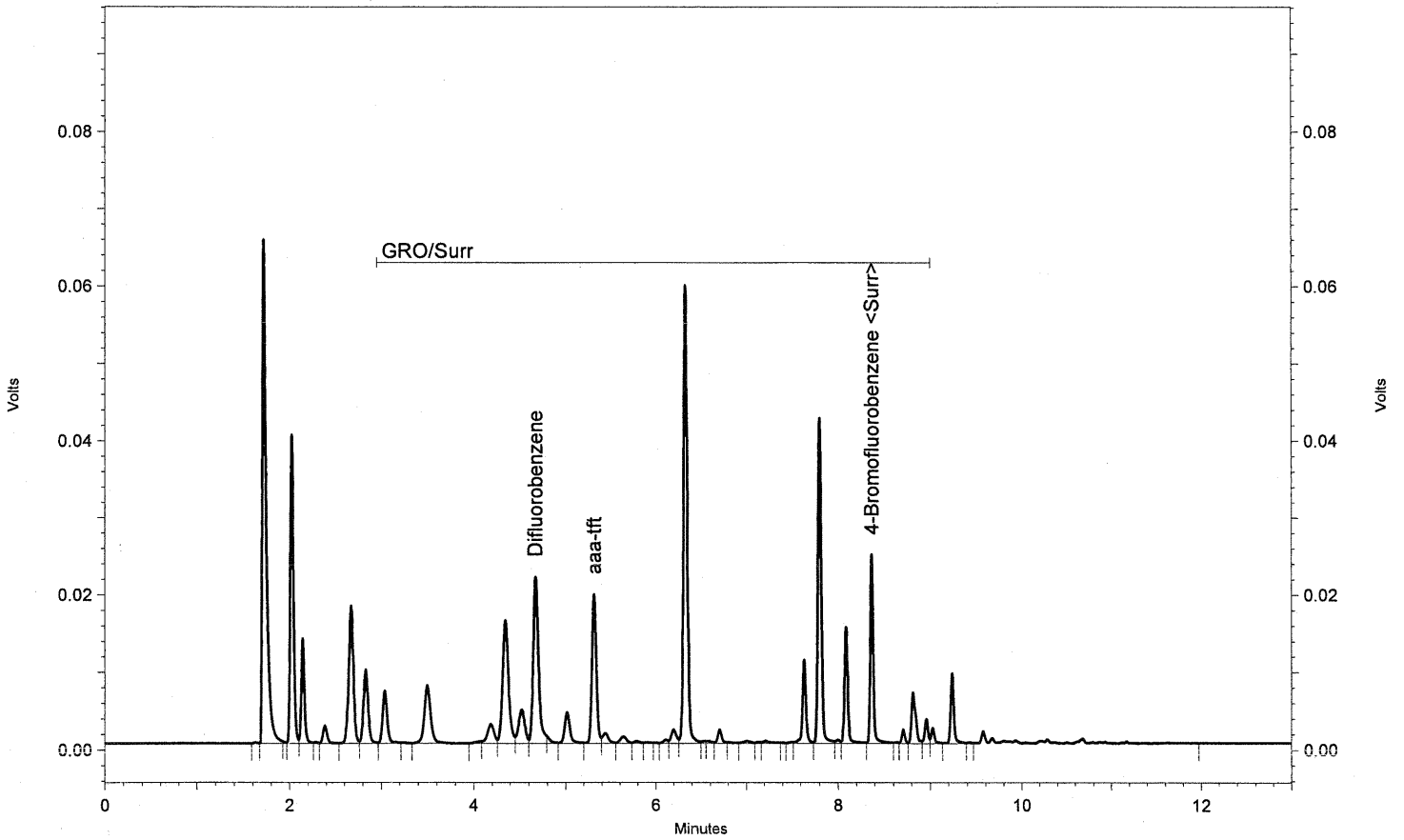
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_021.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.673	85361	48.249	ppb	LL
aaa-tft	5.317	65965	44.566	ppb	LL
4-Bromofluorobenzene <Surr>	8.370	57353	43.862	ppb	LL
GRO		603442	402.158	ppb	
GRO/Surr		812121	541.230	ppb	

SGS Environmental Services Inc.

Sample Name: CCV

Date/Time: 8/30/2006 5:07:28 PM

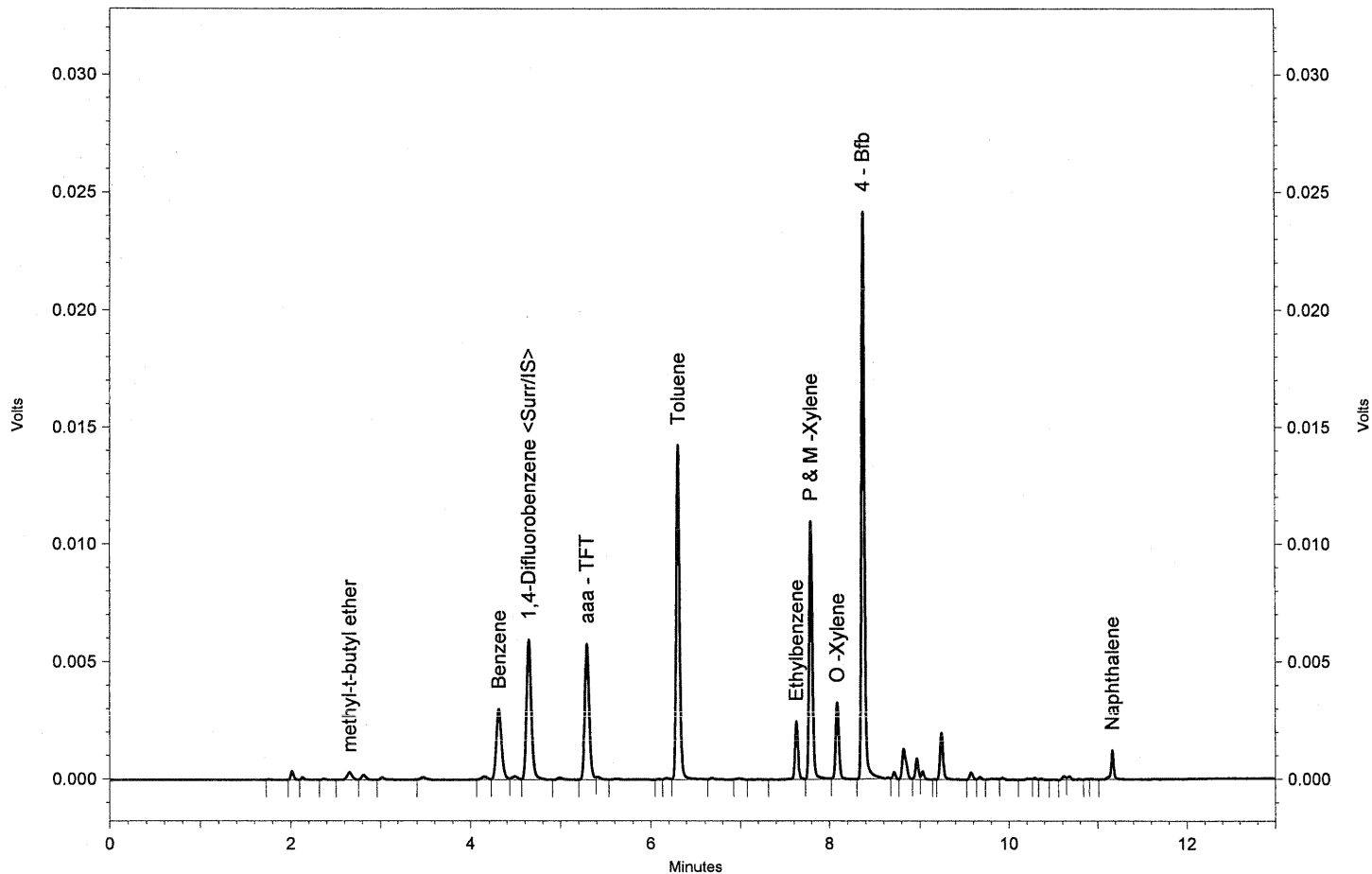
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_023.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.657	1351	3.014	ppb	BV
Benzene	4.313	12612	10.106	ppb	VV
1,4-Difluorobenzene <Surr/IS>	4.643	22633	48.551	ppb	VB
aaa - TFT	5.293	20266	0.000	ppb	BS
Toluene	6.307	39808	34.739	ppb	VV
Ethylbenzene	7.630	6281	6.414	ppb	VV
P & M -Xylene	7.793	28158	24.311	ppb	VV
O -Xylene	8.087	8234	7.944	ppb	VB
4 - Bfb	8.373	55567	49.045	ppb	BB
Naphthalene	11.167	2884	5.499	ppb	VB

SGS Environmental Services Inc.

Sample Name: CCV

Date/Time: 8/30/2006 5:07:28 PM

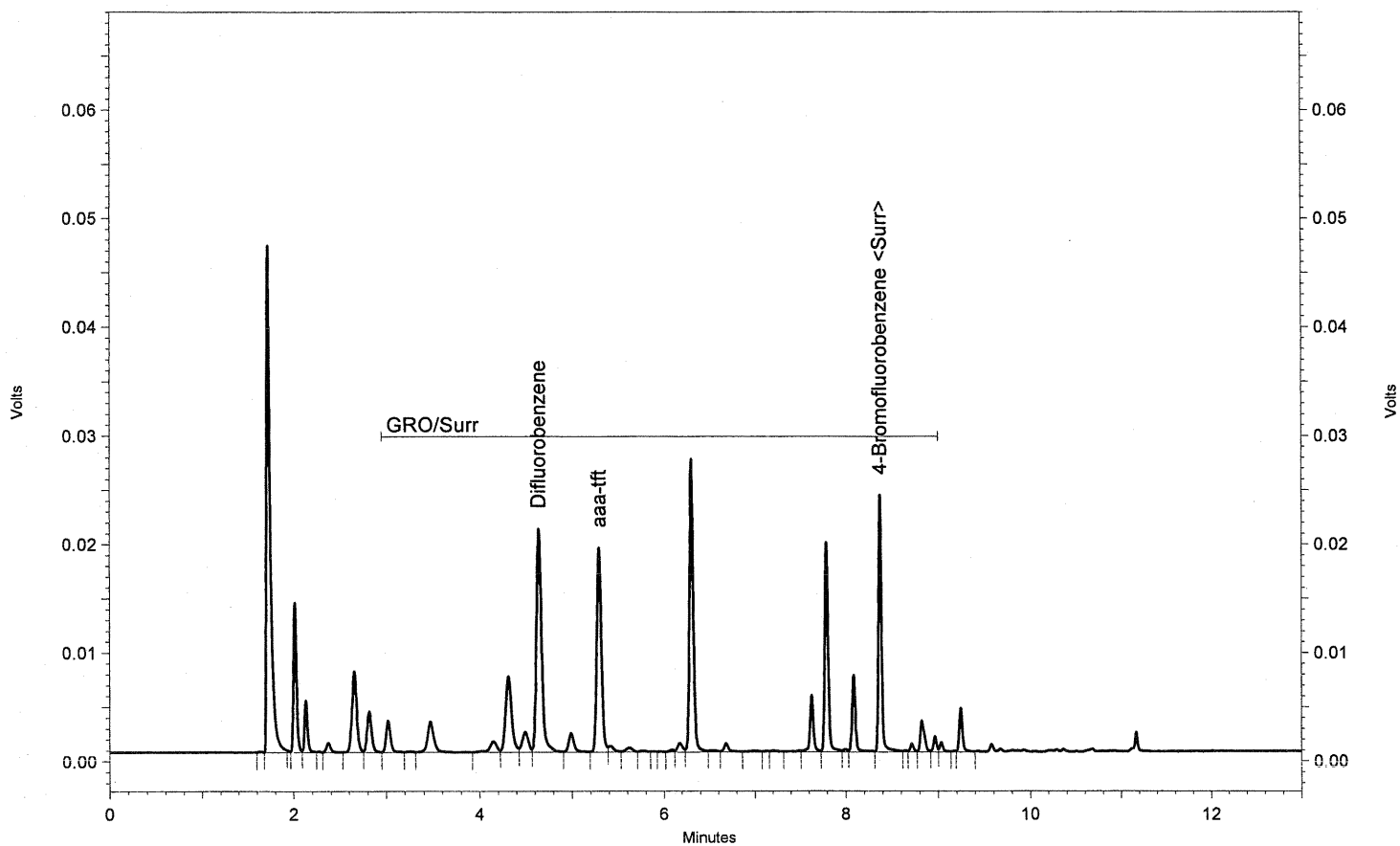
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_023.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.643	81047	45.810	ppb	LL
aaa-tft	5.293	66642	45.023	ppb	LL
4-Bromofluorobenzene <Surr>	8.373	55907	42.756	ppb	LL
GRO		273961	182.579	ppb	
GRO/Surr		477557	318.263	ppb	

SGS Environmental Services Inc.

Sample Name: CCV2

Date/Time: 8/30/2006 5:42:08 PM

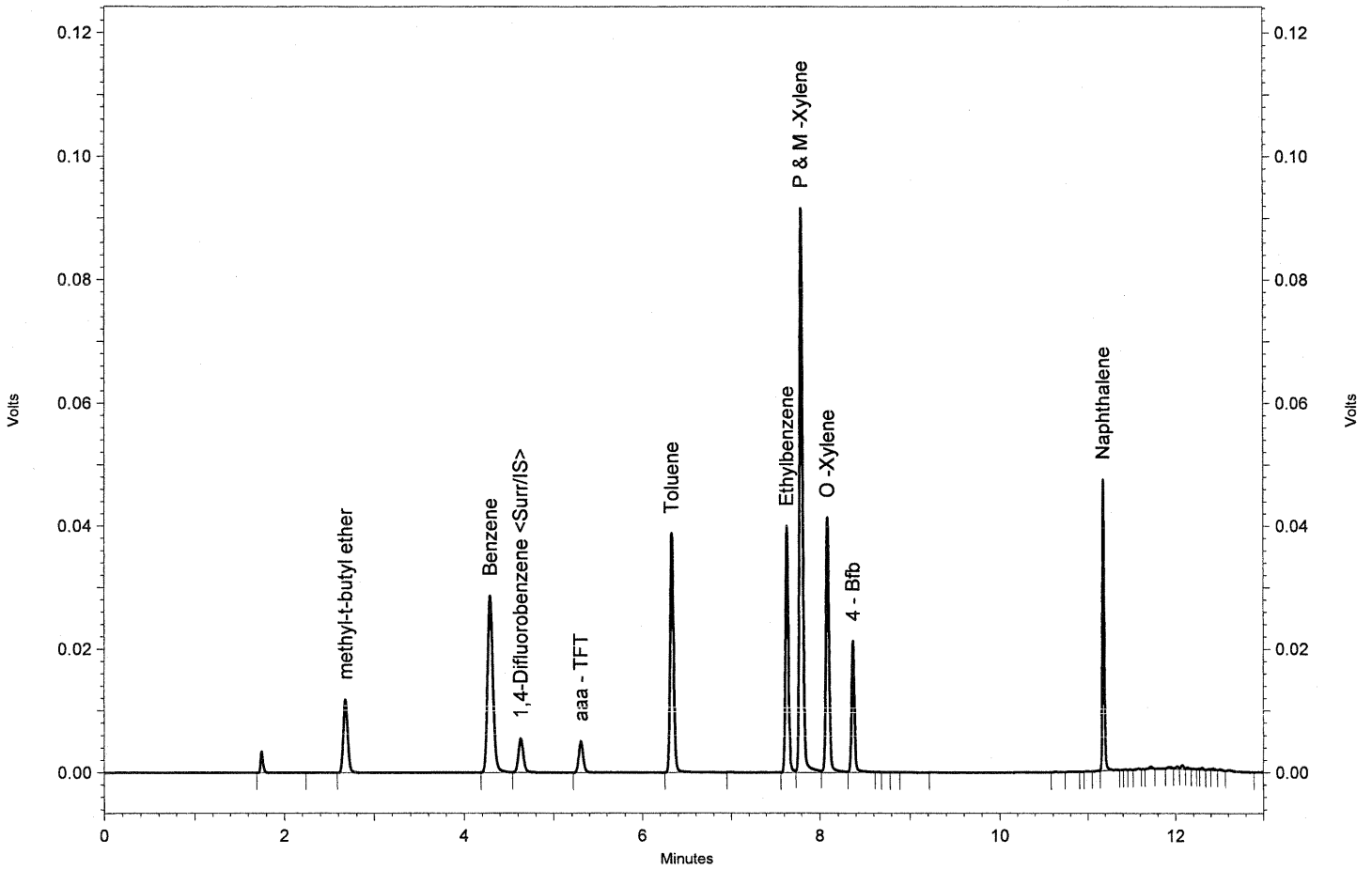
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_024.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.680	40162	99.327	ppb	BB
Benzene	4.297	121711	108.109	ppb	BV
1,4-Difluorobenzene <Surr/IS>	4.633	21402	50.892	ppb	VB
aaa - TFT	5.307	18282	0.000	ppb	BB
Toluene	6.333	108839	105.287	ppb	BB
Ethylbenzene	7.633	97304	110.154	ppb	BV
P & M -Xylene	7.800	233376	223.357	ppb	VV
O -Xylene	8.087	101612	108.678	ppb	VV
4 - Bfb	8.370	50056	48.975	ppb	VV
Naphthalene	11.180	76721	162.152	ppb	SB

SGS Environmental Services Inc.

Sample Name: CCV2

Date/Time: 8/30/2006 5:42:08 PM

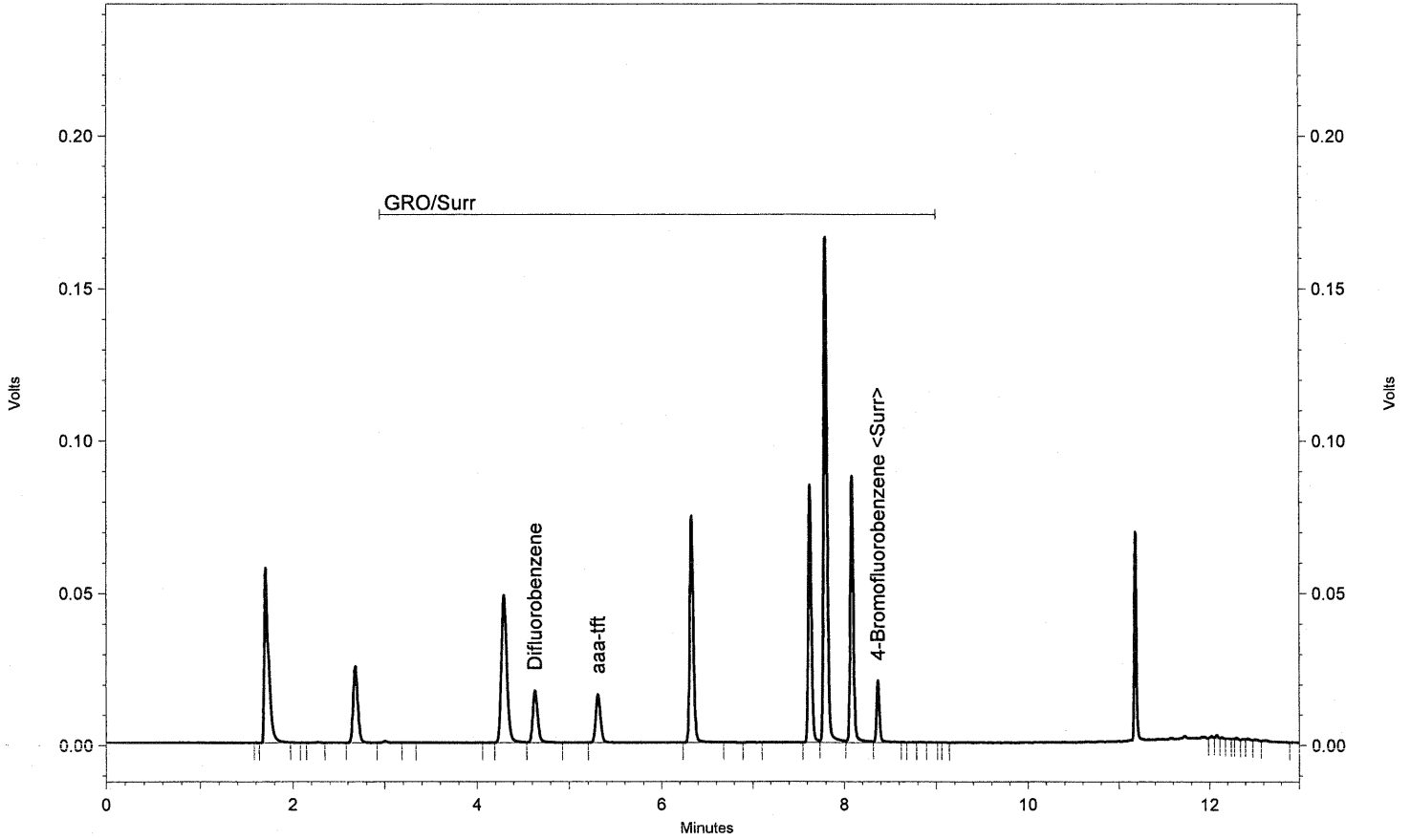
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_024.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.633	67621	38.221	ppb	LL
aaa-tft	5.307	58959	39.833	ppb	LL
4-Bromofluorobenzene <Surr>	8.370	50103	38.317	ppb	LL
GRO		1270464	846.688	ppb	
GRO/Surr		1447147	964.437	ppb	

SGS Environmental Services Inc.

Sample Name: 1064875006A

Date/Time: 8/30/2006 7:19:37 PM

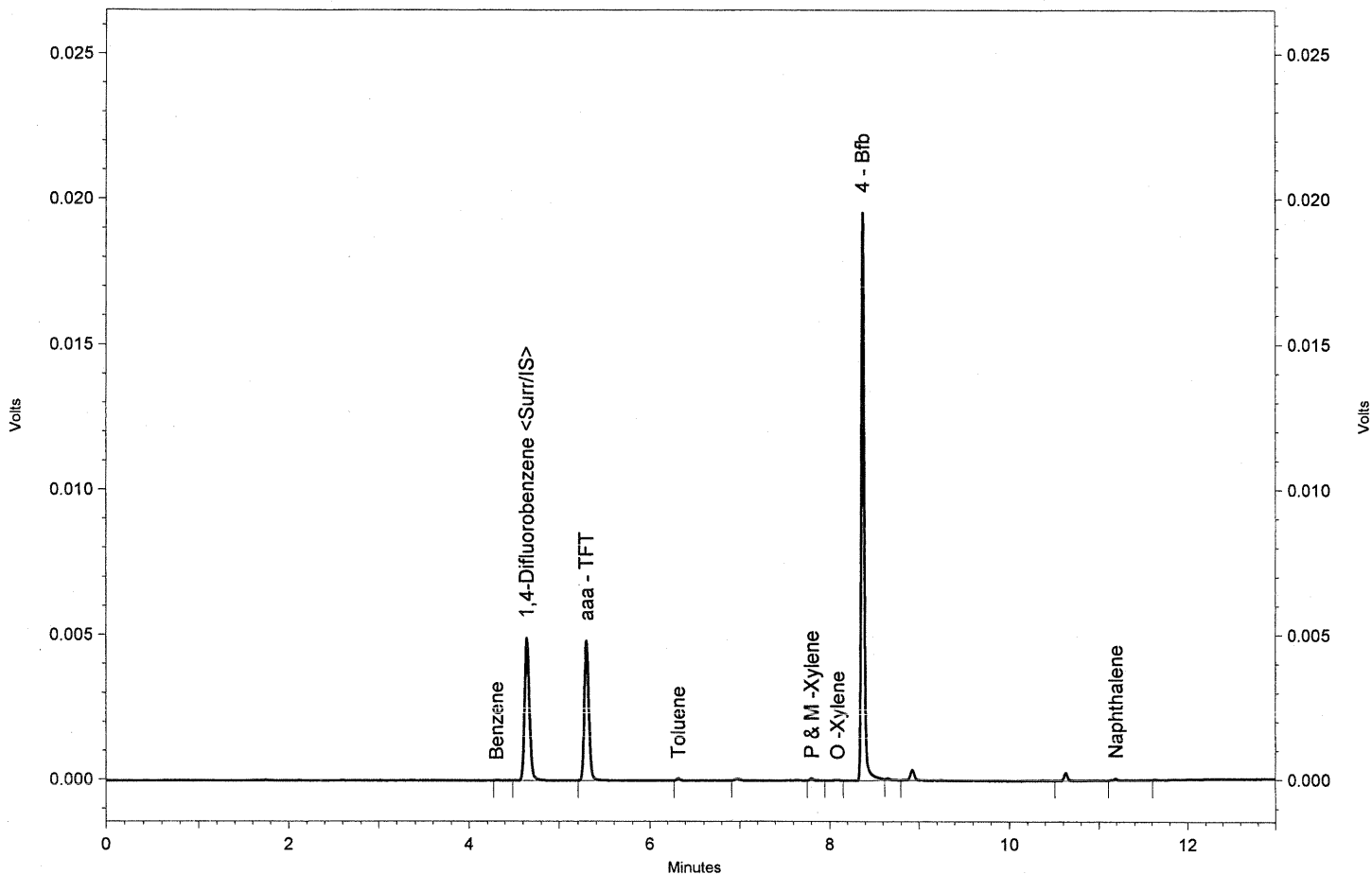
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_029.dat

PID



PID Detector

PID Results					
Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.307	41	0.039 LC	ppb	BB
1,4-Difluorobenzene <Surr/IS>	4.643	18128	46.379	ppb	BB
aaa - TFT	5.297	16992	0.000	ppb	BB
Toluene	6.320	208	0.216 LC	ppb	BB
P & M -Xylene	7.807	192	0.198 LC	ppb	BB
O -Xylene	8.090	74	0.085 LC	ppb	BS
4 - Bfb	8.370	46229	48.665	ppb	SV
Naphthalene	11.193	198	0.450 LC	ppb	BB

SGS Environmental Services Inc.

Sample Name: 1064875006A

Date/Time: 8/30/2006 7:19:37 PM

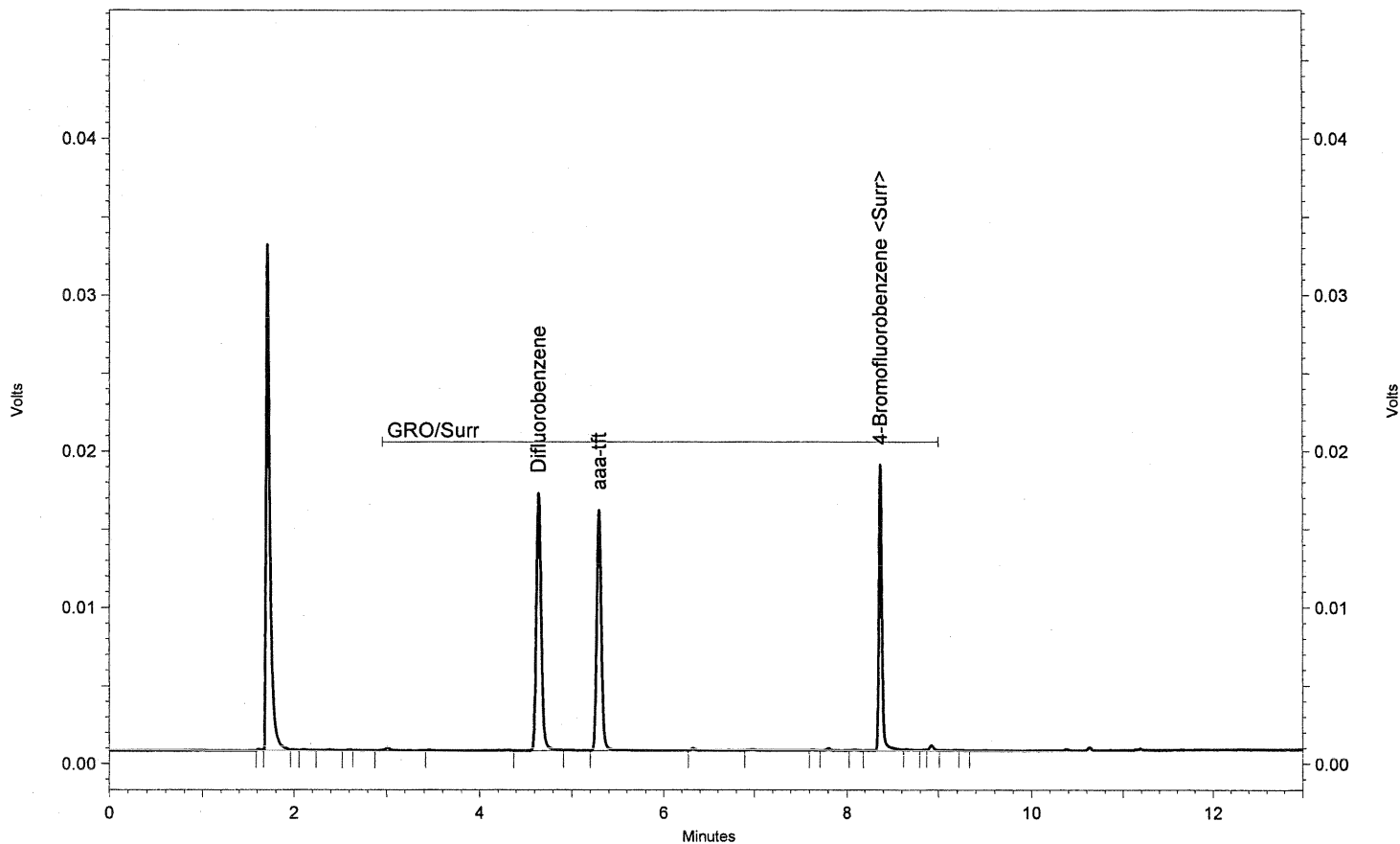
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_029.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.643	61523	34.775	ppb	LL
aaa-tft	5.297	54838	37.048	ppb	LL
4-Bromofluorobenzene <Surr>	8.370	44350	33.917	ppb	LL
GRO		6260	4.172	LC ppb	
GRO/Surr		166971	111.276	ppb	

SGS Environmental Services Inc.

Sample Name: 1064875007A

Date/Time: 8/30/2006 7:39:12 PM

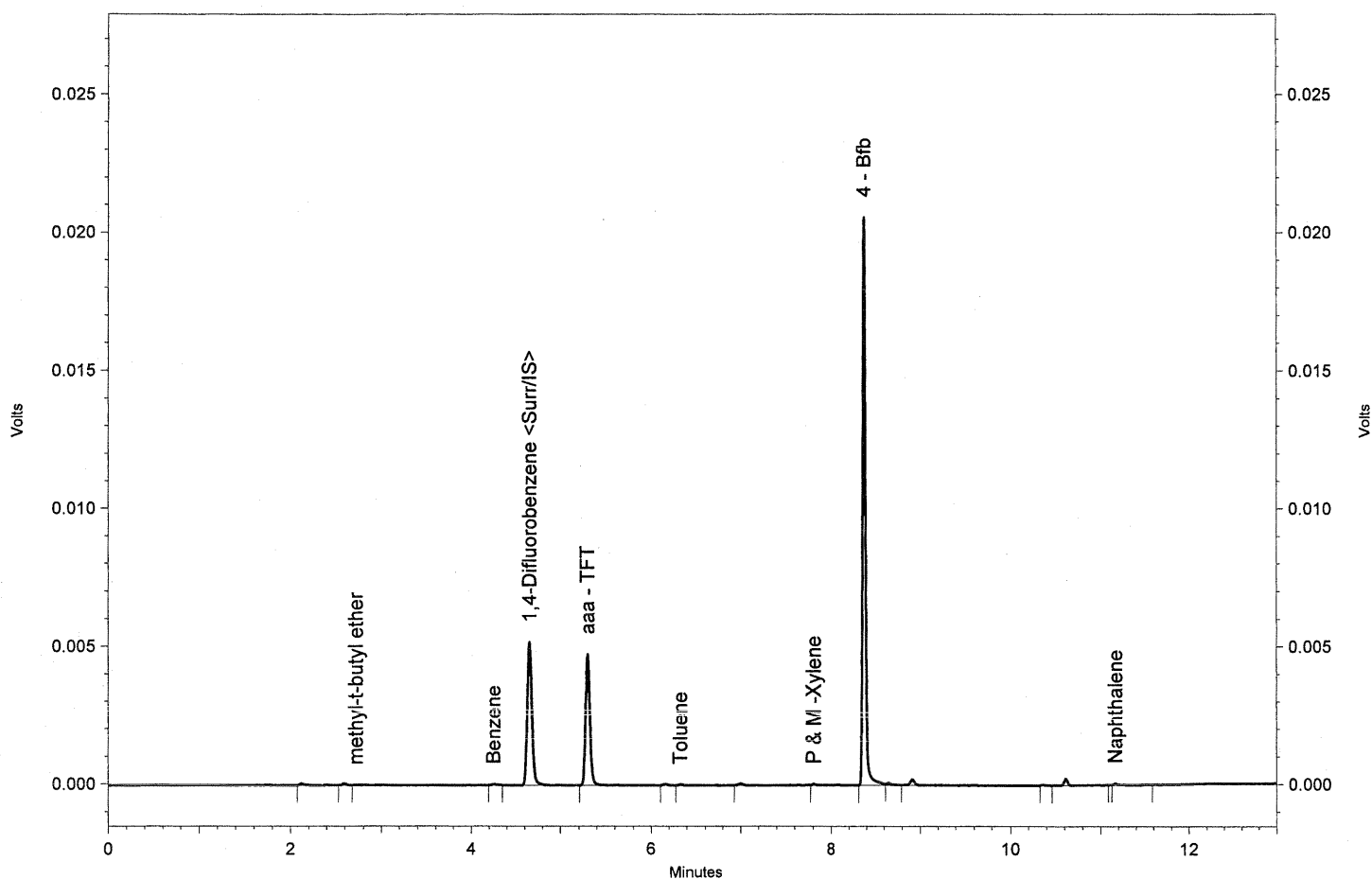
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_030.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.720	35	0.096 LC	ppb	BS
Benzene	4.253	188	0.185 LC	ppb	BS
1,4-Difluorobenzene <Surr/IS>	4.657	19192	50.437	ppb	SB
aaa - TFT	5.300	16542	0.000	ppb	BB
Toluene	6.330	114	0.122 LC	ppb	VB
P & M -Xylene	7.810	101	0.107 LC	ppb	BB
4 - Bfb	8.373	47425	51.282	ppb	BV
Naphthalene	11.170	142	0.332 LC	ppb	SB

SGS Environmental Services Inc.

Sample Name: 1064875007A

Date/Time: 8/30/2006 7:39:12 PM

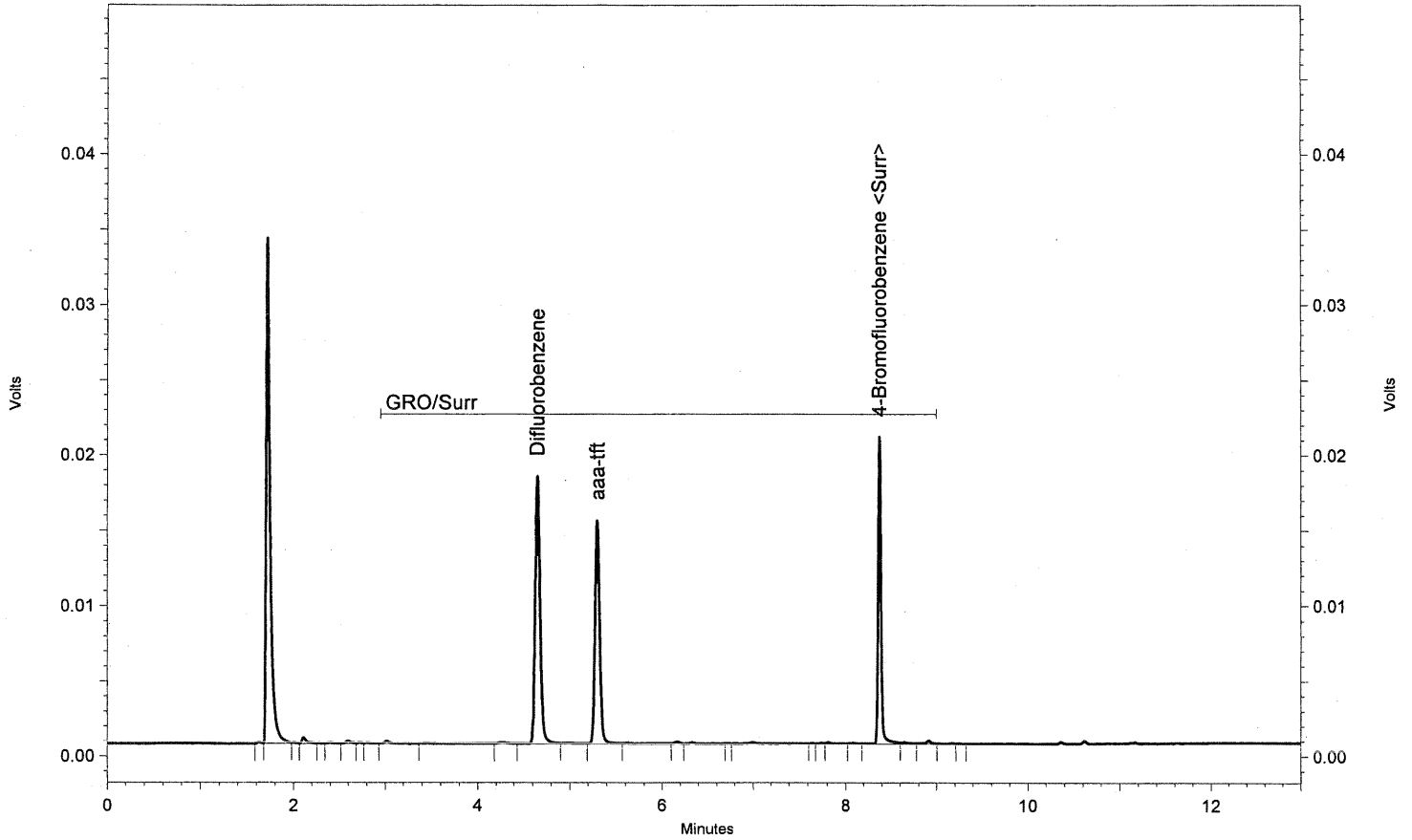
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_030.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.657	66744	37.726	ppb	LL
aaa-tft	5.303	52452	35.437	ppb	LL
4-Bromofluorobenzene <Surr>	8.373	47912	36.642	ppb	LL
GRO		7914	5.274 LC	ppb	
GRO/Surr		175022	116.642	ppb	

SGS Environmental Services Inc.

Sample Name: 1064875008A

Date/Time: 8/30/2006 7:58:41 PM

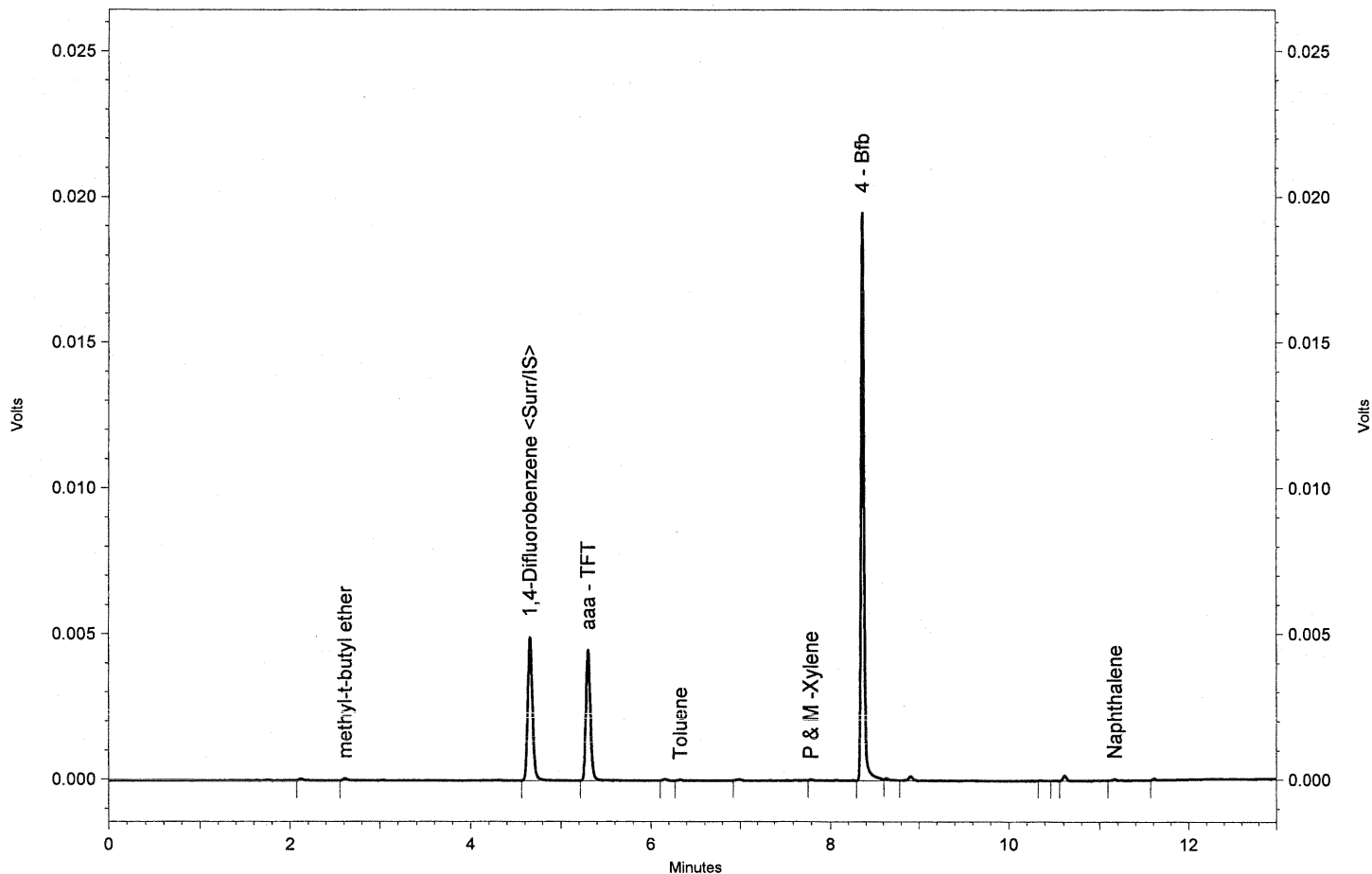
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_031.dat

PID



PID Detector

PID Results						
Name	R.T.	Area	Concentration	Units	Codes	
methyl-t-butyl ether	2.613	239	0.693 LC	ppb	BB	
1,4-Difluorobenzene <Surr/IS>	4.657	18334	51.105	ppb	BB	
aaa - TFT	5.307	15596	0.000	ppb	BB	
Toluene	6.327	93	0.105 LC	ppb	BB	
P & M -Xylene	7.797	70	0.079 LC	ppb	BB	
4 - Bfb	8.363	45775	52.500	ppb	BV	
Naphthalene	11.170	153	0.379 LC	ppb	BB	

SGS Environmental Services Inc.

Sample Name: 1064875008A

Date/Time: 8/30/2006 7:58:41 PM

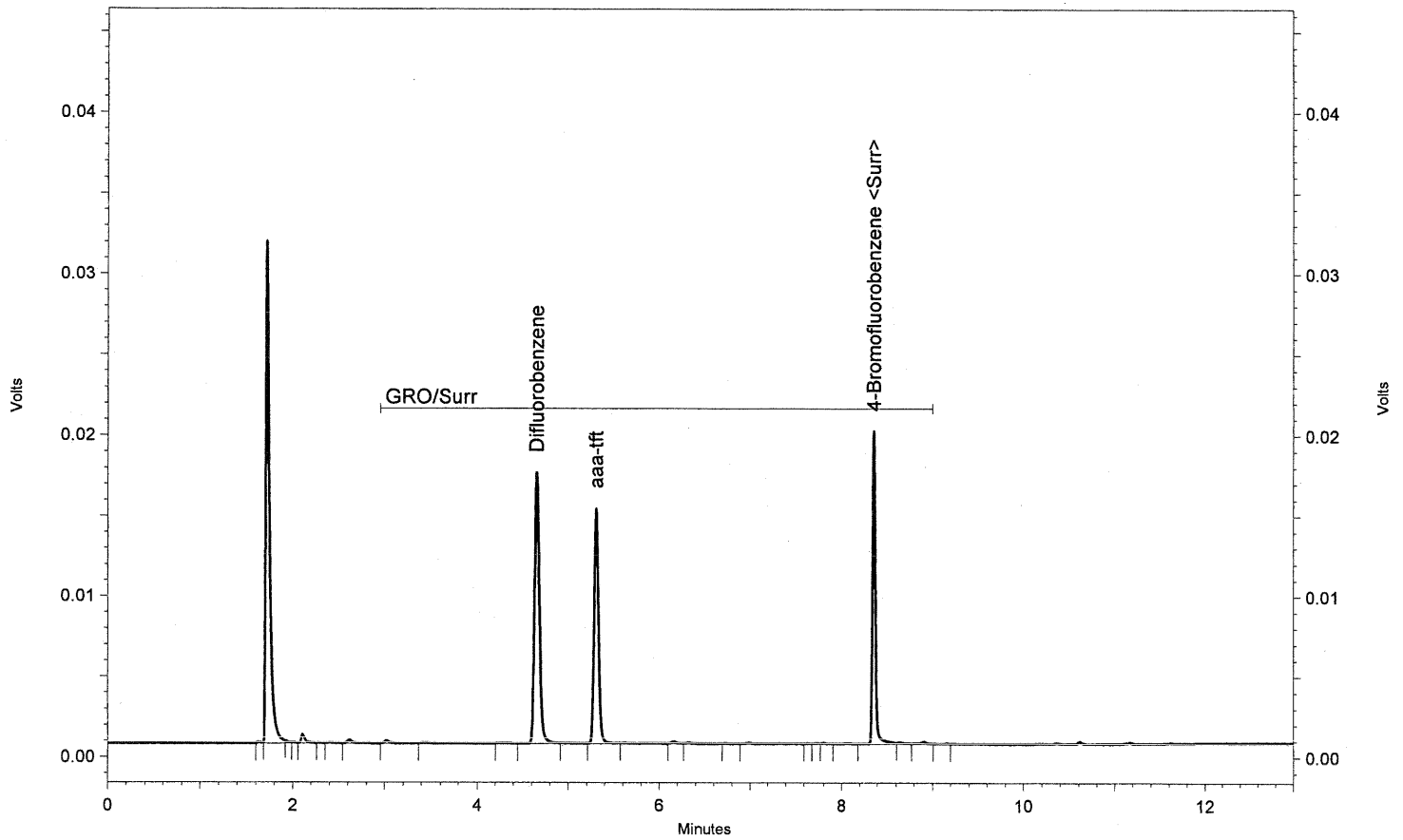
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_031.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.657	63415	35.844	ppb	LL
aaa-tft	5.307	51368	34.704	ppb	LL
4-Bromofluorobenzene <Surr>	8.363	46283	35.396	ppb	LL
GRO		6189	4.125 LC	ppb	
GRO/Surr		167255	111.465	ppb	

SGS Environmental Services Inc.

Sample Name: 1064875002A

Date/Time: 8/30/2006 8:18:02 PM

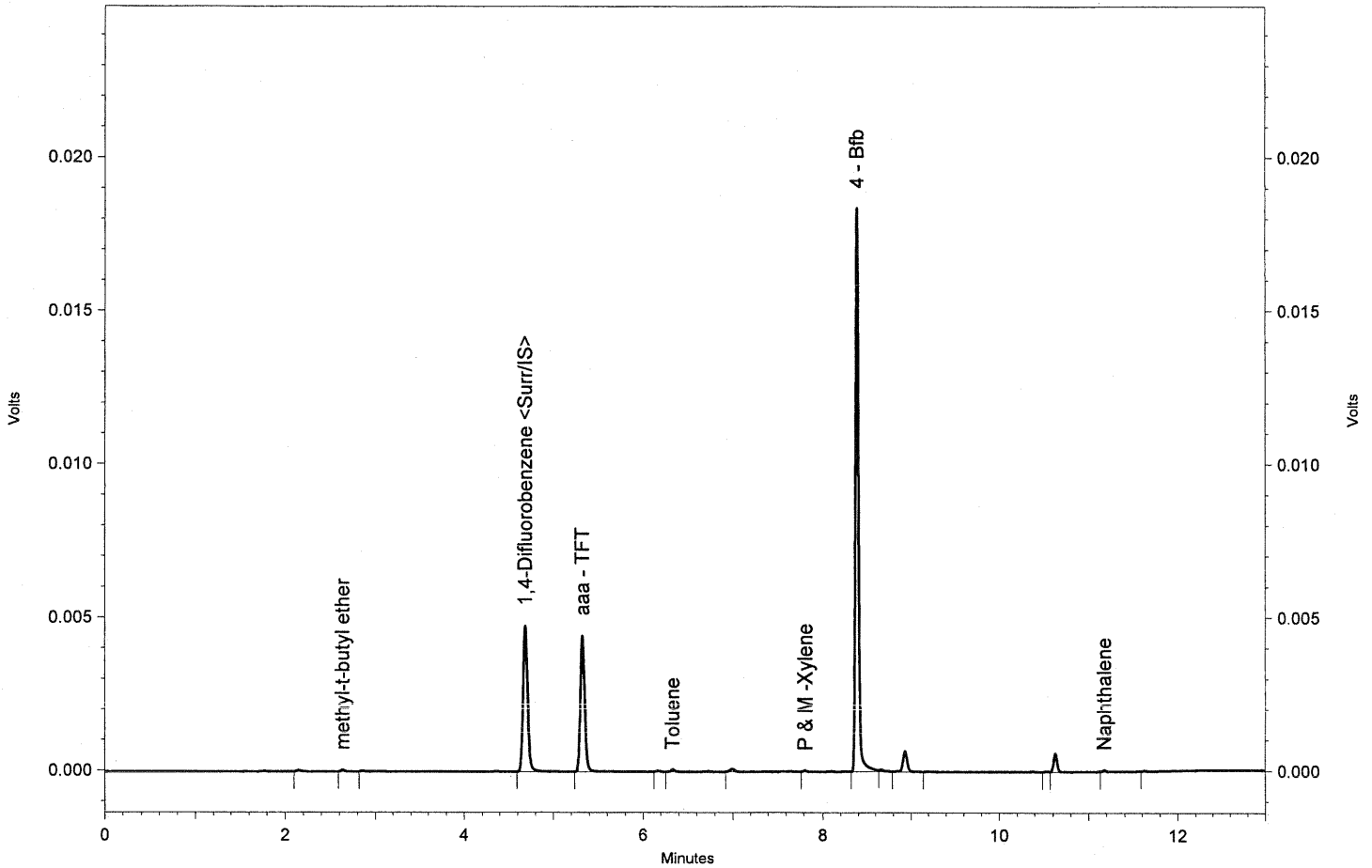
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_032.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.637	199	0.590 LC	ppb	BB
1,4-Difluorobenzene <Surr/IS>	4.687	17262	49.231	ppb	BB
aaa - TFT	5.327	15243	0.000	ppb	BB
Toluene	6.333	222	0.258 LC	ppb	VB
P & M -Xylene	7.817	91	0.104 LC	ppb	BB
4 - Bfb	8.387	44121	51.775	ppb	BV
Naphthalene	11.177	105	0.266 LC	ppb	BB

SGS Environmental Services Inc.

Sample Name: 1064875002A

Date/Time: 8/30/2006 8:18:02 PM

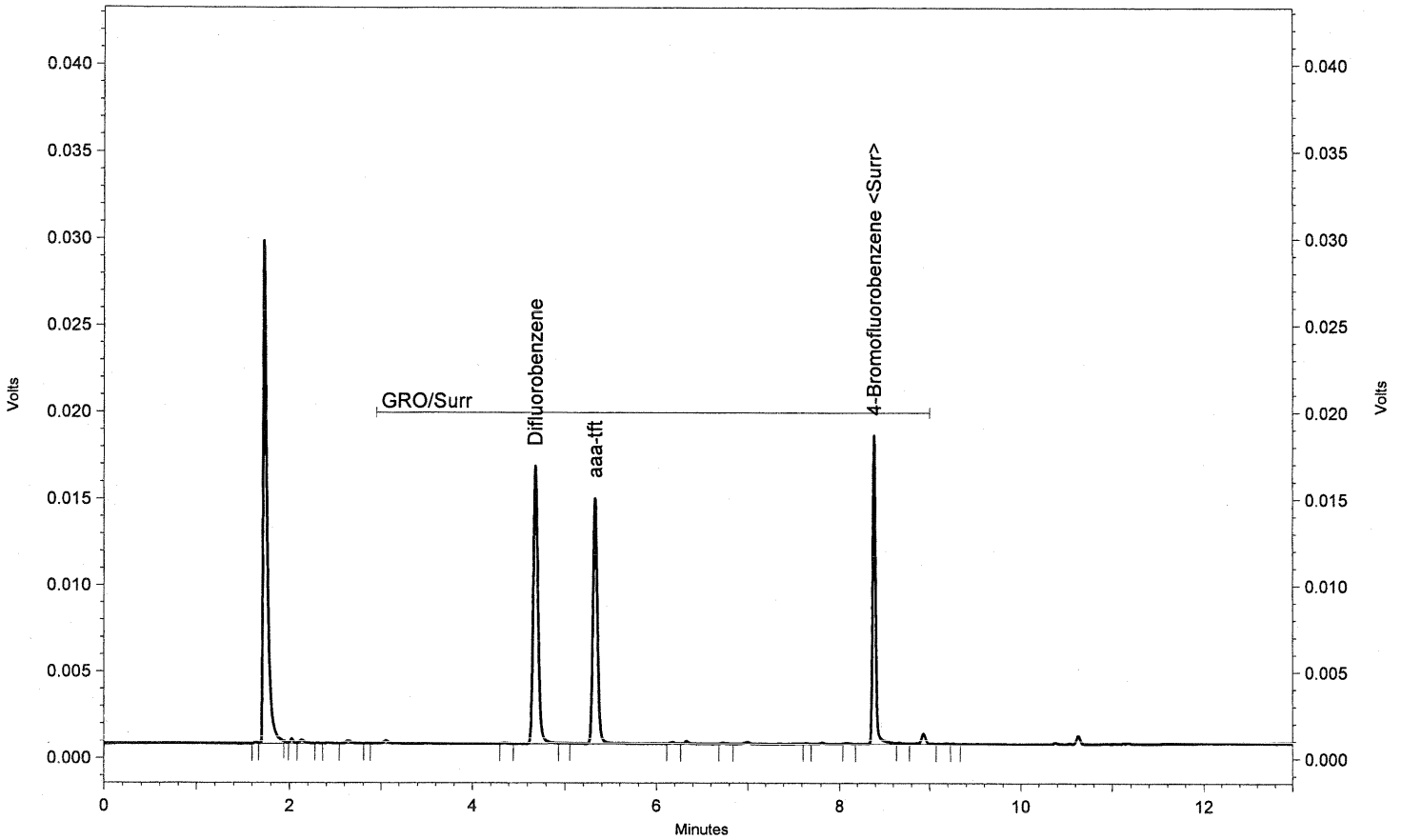
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_032.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.687	58648	33.150	ppb	LL
aaa-tft	5.327	49452	33.410	ppb	LL
4-Bromofluorobenzene <Surr>	8.387	43455	33.233	ppb	LL
GRO		7299	4.864	LC ppb	
GRO/Surr		158854	105.867	ppb	

SGS Environmental Services Inc.

Sample Name: 1064875010A*TB

Date/Time: 8/30/2006 8:56:31 PM

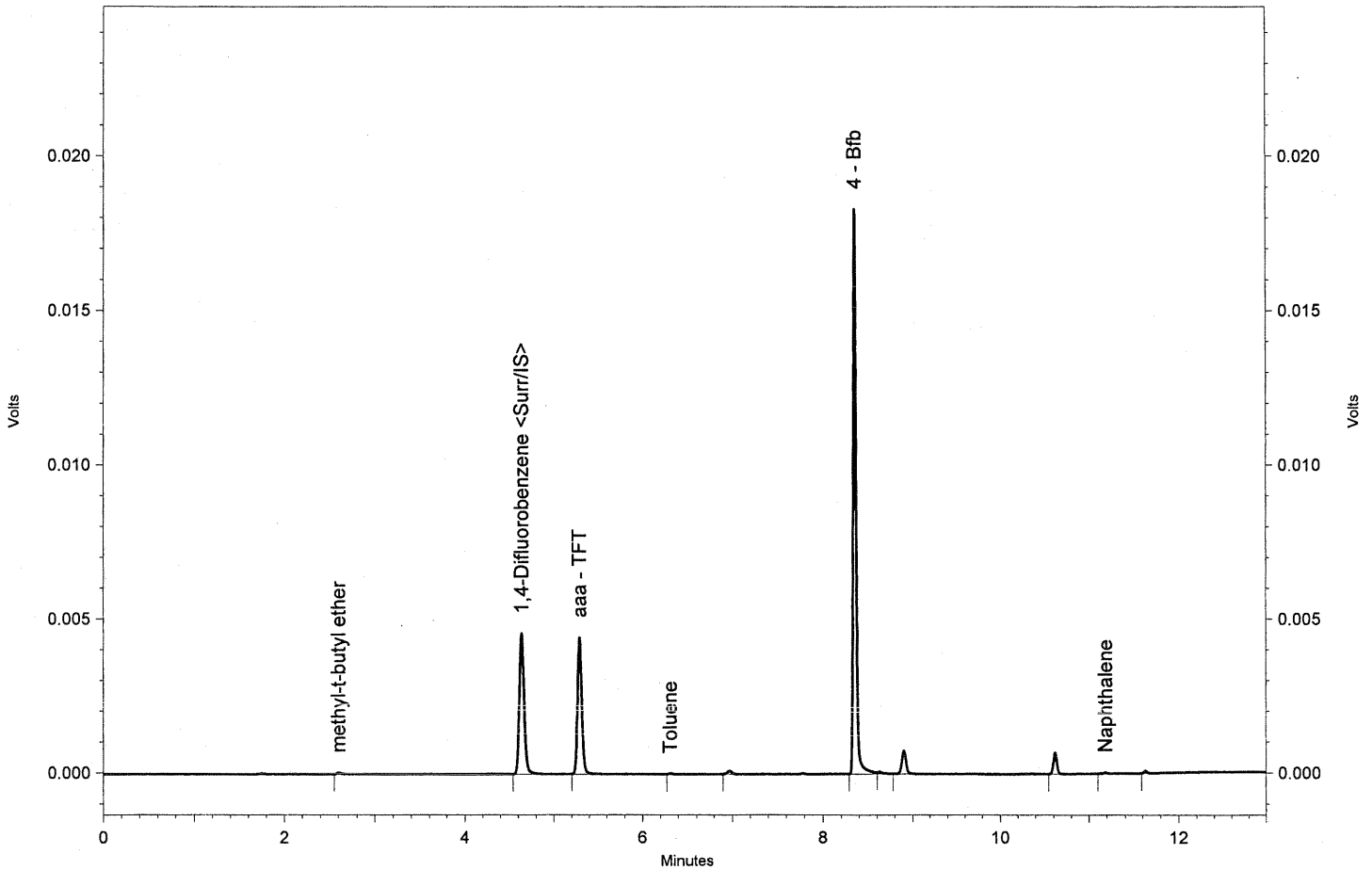
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_034.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.603	177	0.514 LC	ppb	BB
1,4-Difluorobenzene <Surr/IS>	4.640	17086	47.749	ppb	BB
aaa - TFT	5.293	15556	0.000	ppb	BB
Toluene	6.313	71	0.081 LC	ppb	BB
4 - Bfb	8.353	43061	49.514	ppb	BV
Naphthalene	11.187	143	0.355 LC	ppb	BB

SGS Environmental Services Inc.

Sample Name: 1064875010A*TB

Date/Time: 8/30/2006 8:56:31 PM

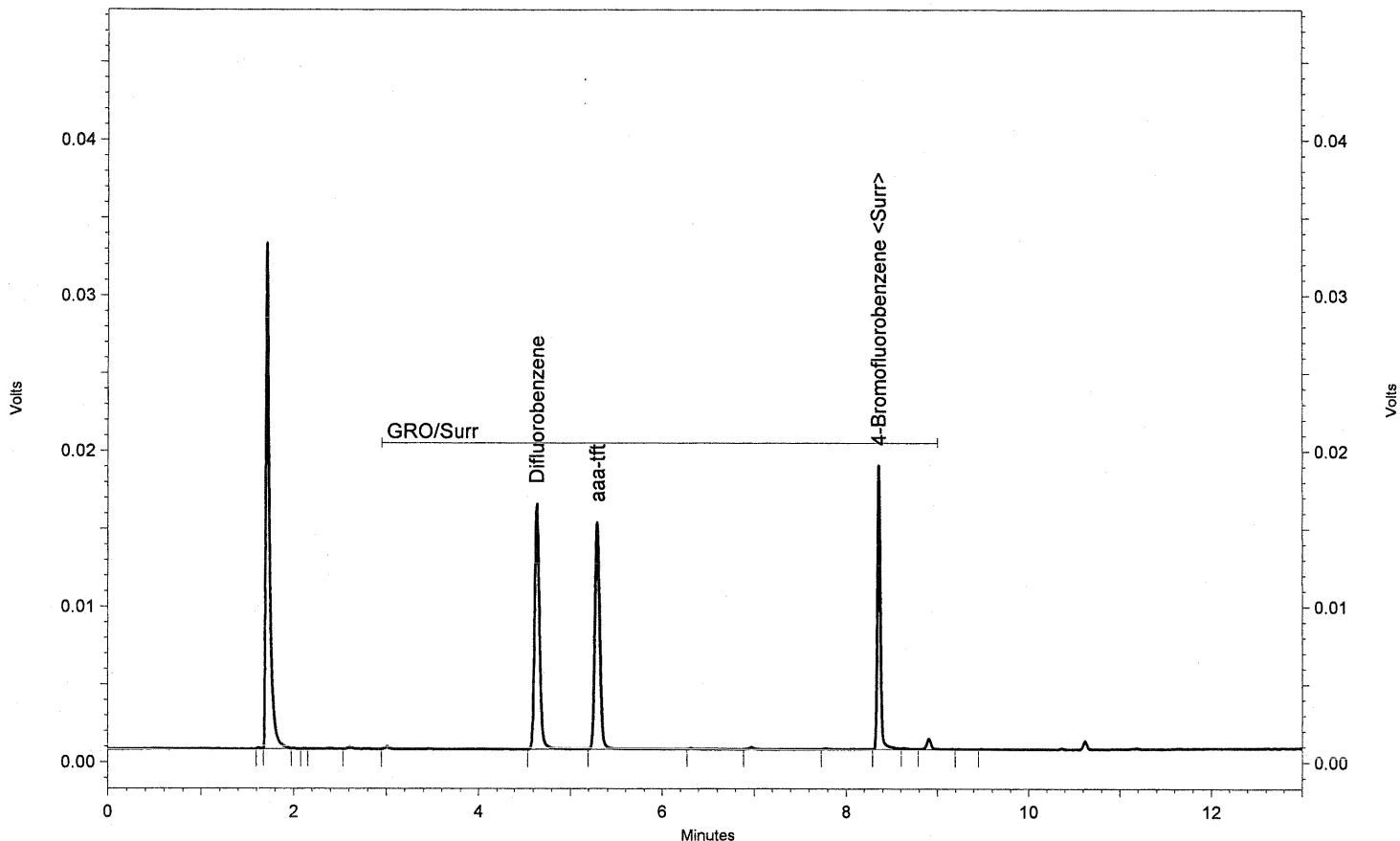
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_034.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.640	59628	33.704	ppb	LL
aaa-tft	5.293	51736	34.953	ppb	LL
4-Bromofluorobenzene <Surr>	8.357	43510	33.275	ppb	LL
GRO		5319	3.545	LC ppb	
GRO/Surr		160193	106.759	ppb	

SGS Environmental Services Inc.

Sample Name: 1064875011A*TB

Date/Time: 8/30/2006 9:15:59 PM

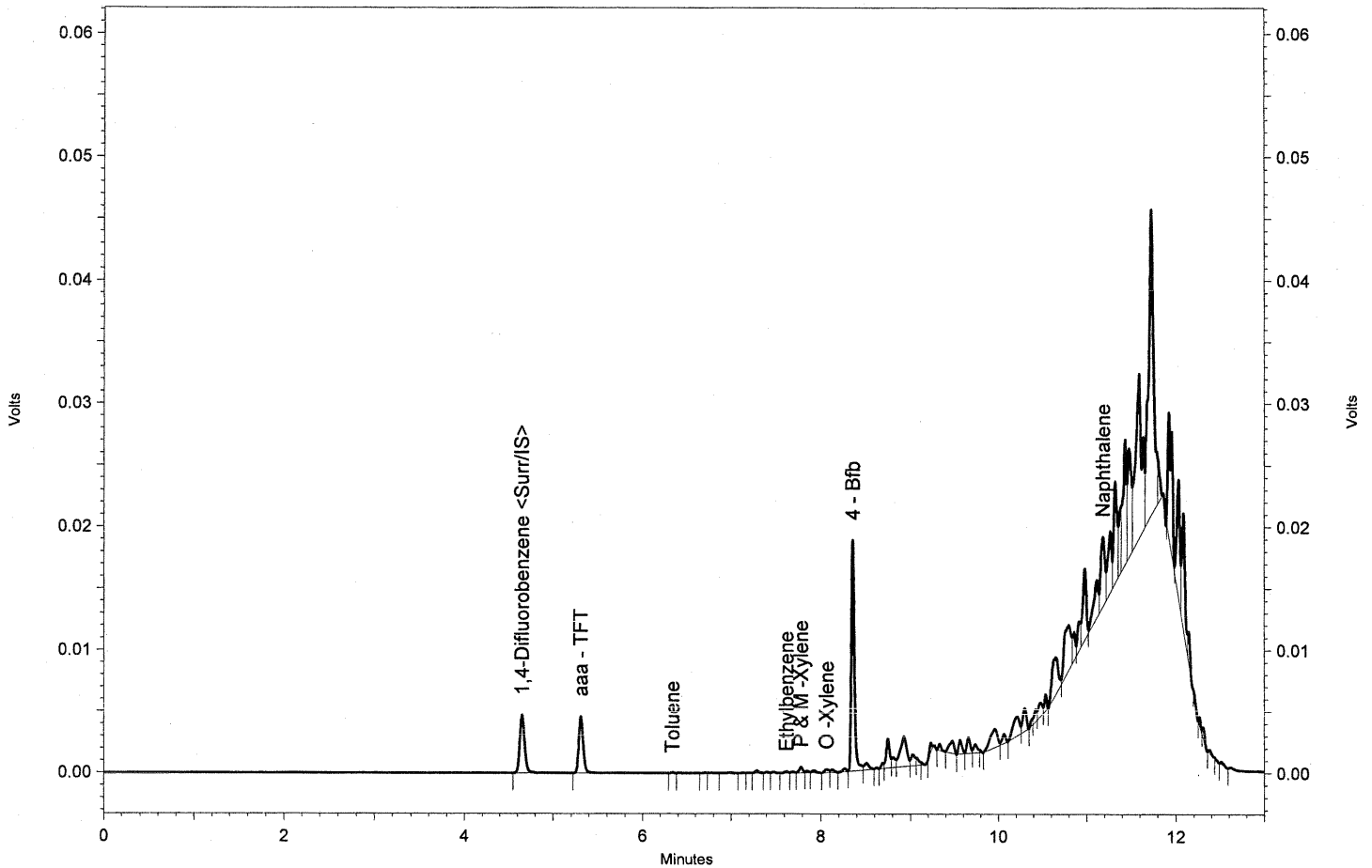
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_035.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
1,4-Difluorobenzene <Surr/IS>	4.653	18016	48.418	ppb	BB
aaa - TFT	5.313	16176	0.000	ppb	BB
Toluene	6.337	113	0.124 LC	ppb	BS
Ethylbenzene	7.627	360	0.461 LC	ppb	BV
P & M -Xylene	7.790	1355	1.466 LC	ppb	VV
O -Xylene	8.067	897	1.084 LC	ppb	BV
4 - Bfb	8.360	44740	49.473	ppb	VV
Naphthalene	11.187	19112	45.653	ppb	SV

SGS Environmental Services Inc.

Sample Name: 1064875011A*TB

Date/Time: 8/30/2006 9:15:59 PM

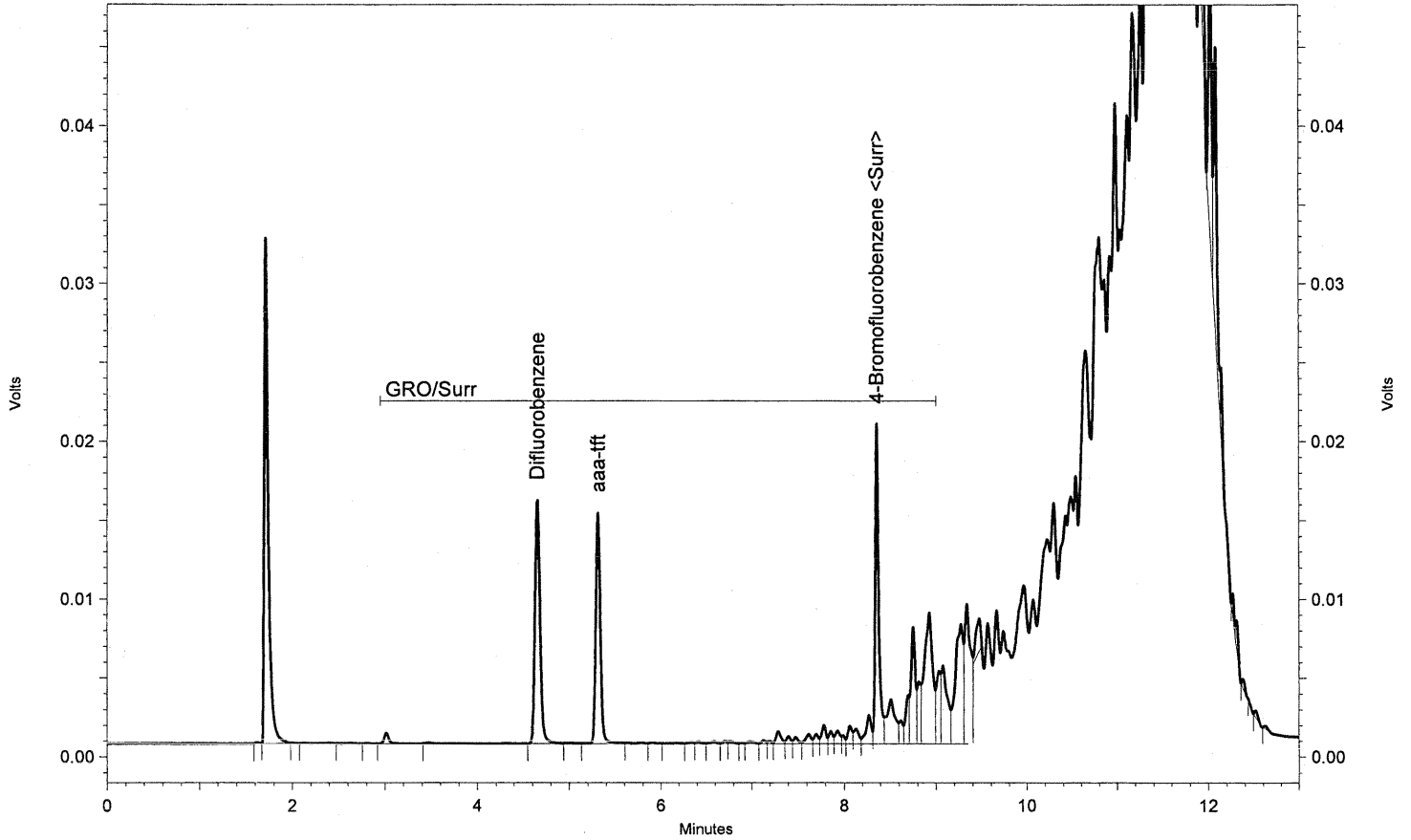
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_035.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.653	59612	33.695	ppb	LL
aaa-tft	5.313	51967	35.109	ppb	LL
4-Bromofluorobenzene <Surr>	8.360	55409	42.375	ppb	LL
GRO		166446	110.926	ppb	
GRO/Surr		333434	222.214	ppb	

SGS Environmental Services Inc.

Sample Name: CCV

Date/Time: 8/30/2006 10:34:00 PM

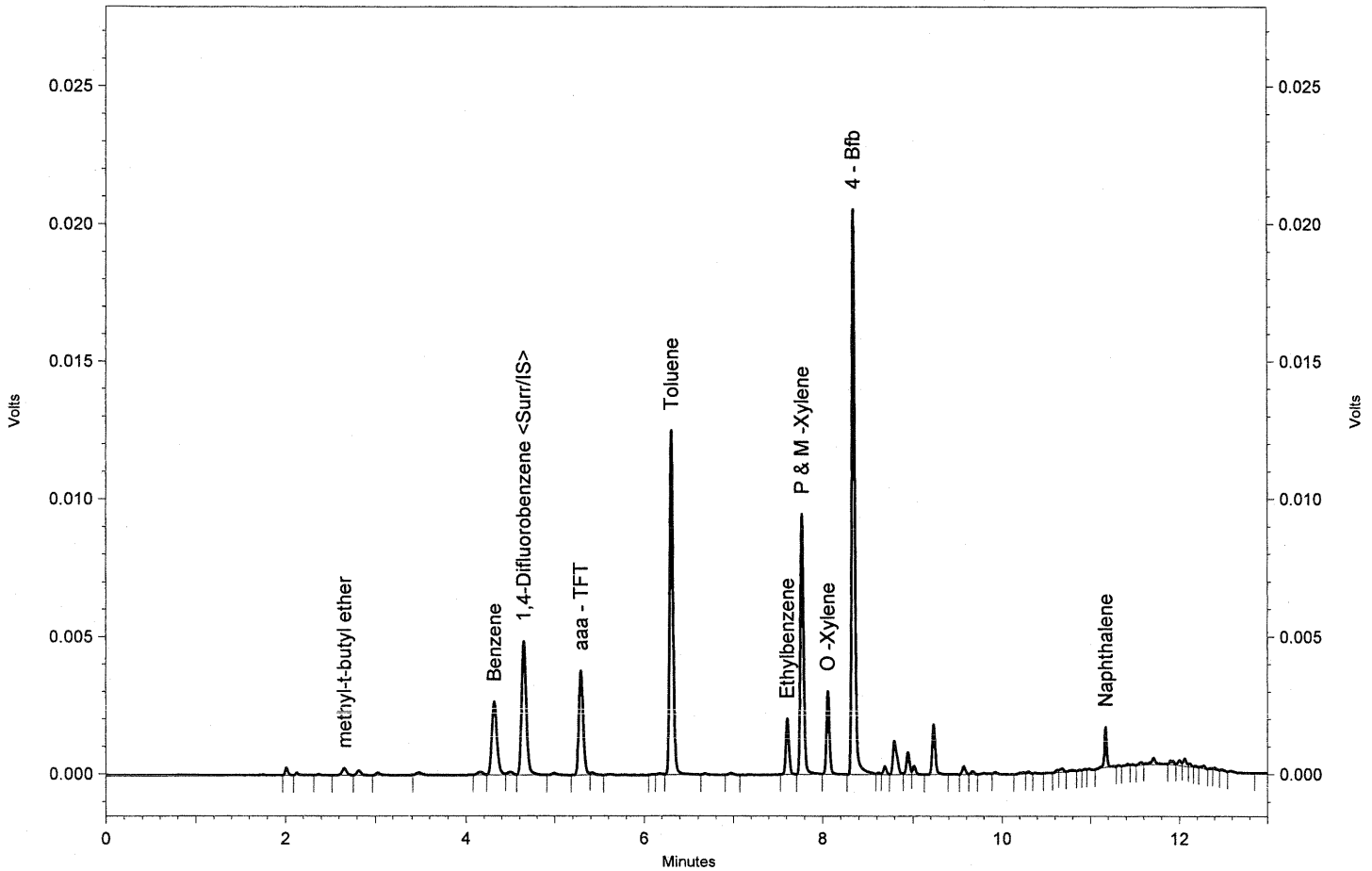
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_039.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.663	981	3.369	ppb	BV
Benzene	4.320	10954	13.510	ppb	VV
1,4-Difluorobenzene <Surr/IS>	4.650	18145	59.909	ppb	VV
aaa - TFT	5.297	13167	0.000	ppb	BV
Toluene	6.310	34077	45.771	ppb	VB
Ethylbenzene	7.610	4948	7.777	ppb	BV
P & M -Xylene	7.777	23768	31.584	ppb	VV
O -Xylene	8.060	7217	10.717	ppb	VB
4 - Bfb	8.343	47967	65.163	ppb	BV
Naphthalene	11.173	2768	8.123	ppb	BB

SGS Environmental Services Inc.

Sample Name: CCV

Date/Time: 8/30/2006 10:34:00 PM

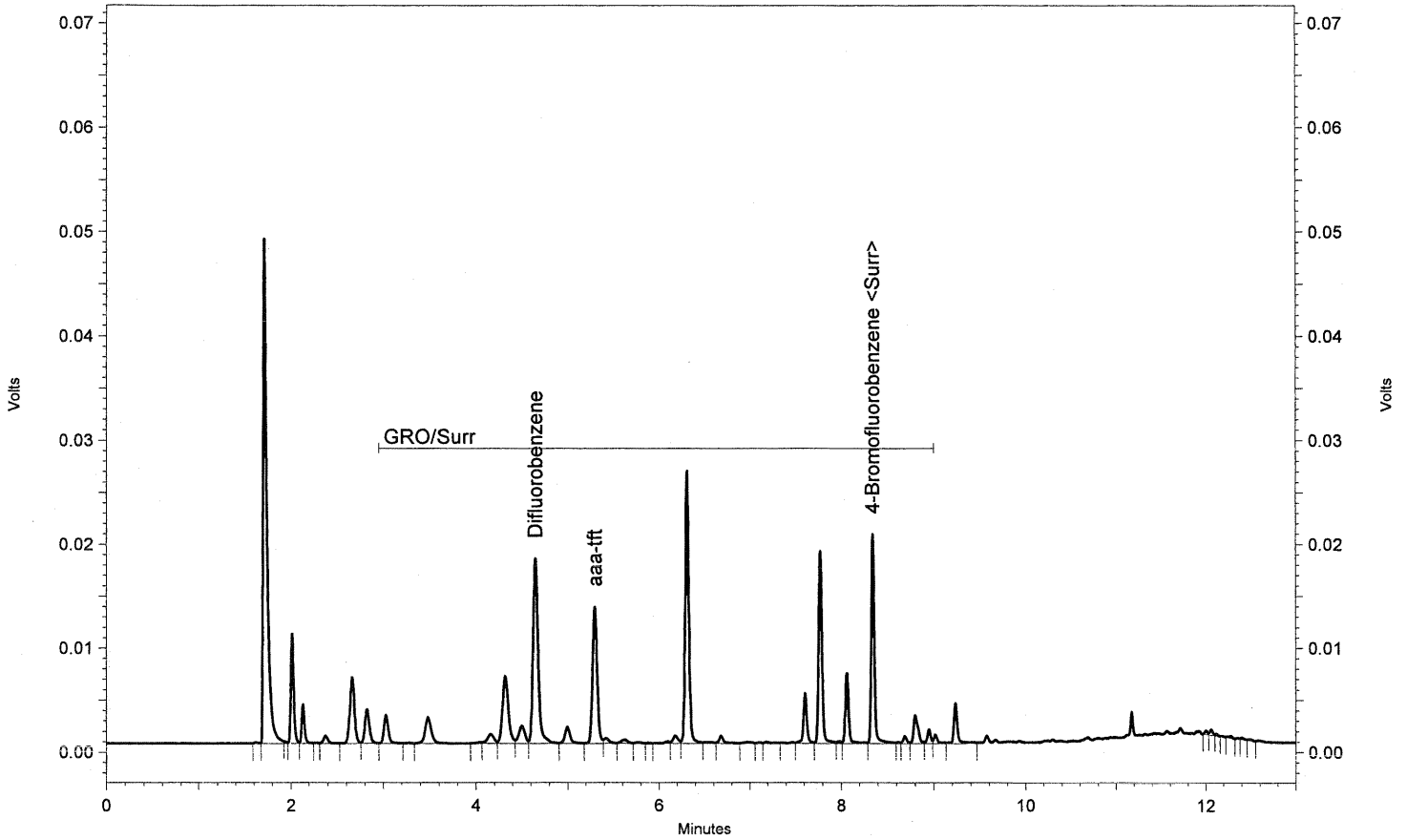
Analyst: HM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083006\VCA08210830_039.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.650	68853	38.918	ppb	LL
aaa-tft	5.297	45926	31.028	ppb	LL
4-Bromofluorobenzene <Surr>	8.343	48376	36.996	ppb	LL
GRO		254536	169.633	ppb	
GRO/Surr		417691	278.366	ppb	

SGS Environmental Services Inc.

Sample Name: IB

Date/Time: 8/31/2006 9:15:40 AM

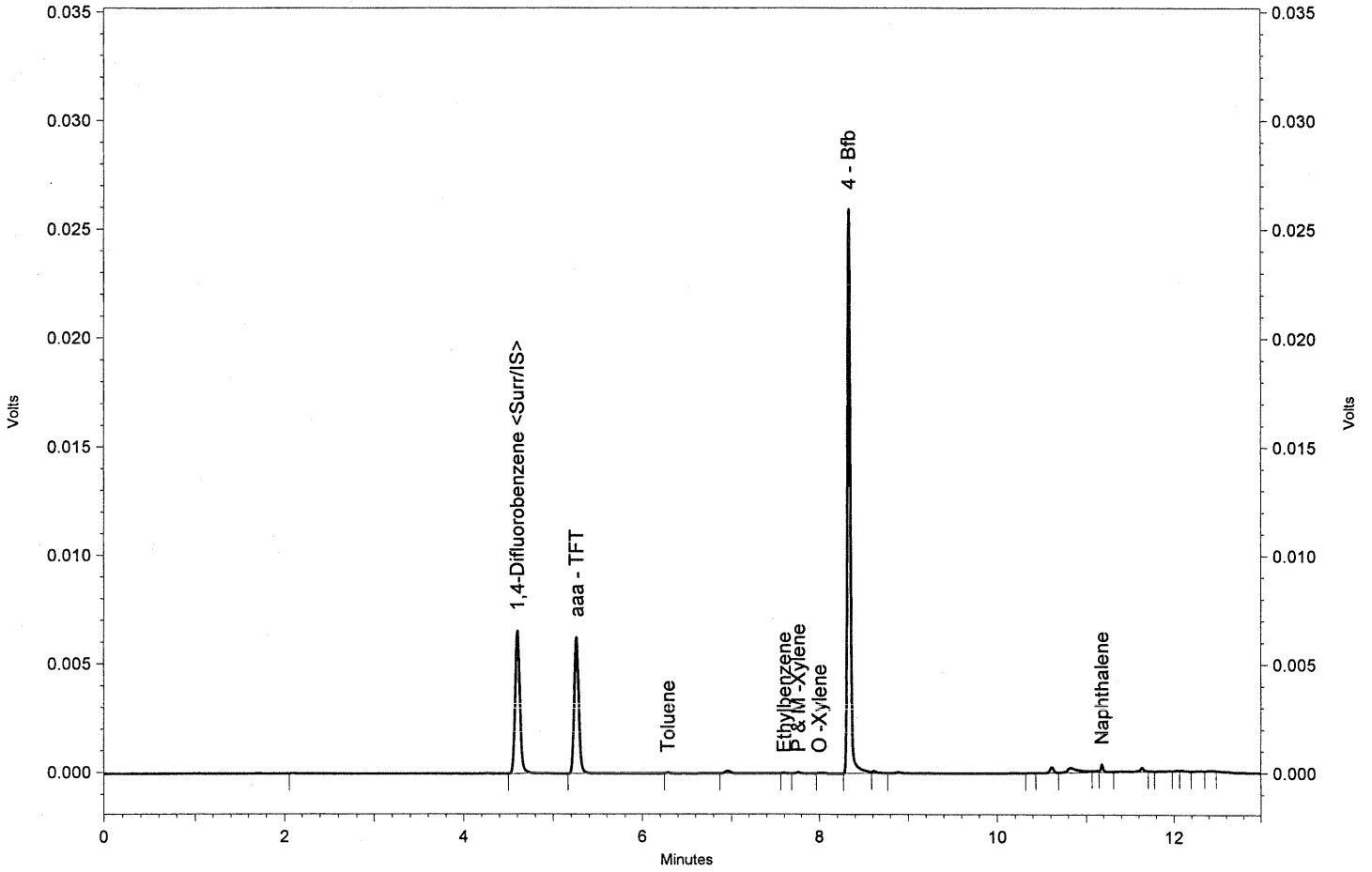
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_001.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
1,4-Difluorobenzene <Surr/IS>	4.603	25342	49.174	ppb	BB
aaa - TFT	5.263	22404	0.000	ppb	BB
Toluene	6.287	123	0.097 LC	ppb	BB
Ethylbenzene	7.600	65	0.060 LC	ppb	BB
P & M -Xylene	7.767	139	0.109 LC	ppb	BB
O -Xylene	8.003	33	0.029 LC	ppb	BS
4 - Bfb	8.333	62018	49.515	ppb	SV
Naphthalene	11.180	936	1.614 LC	ppb	SV

SGS Environmental Services Inc.

Sample Name: IB

Date/Time: 8/31/2006 9:15:40 AM

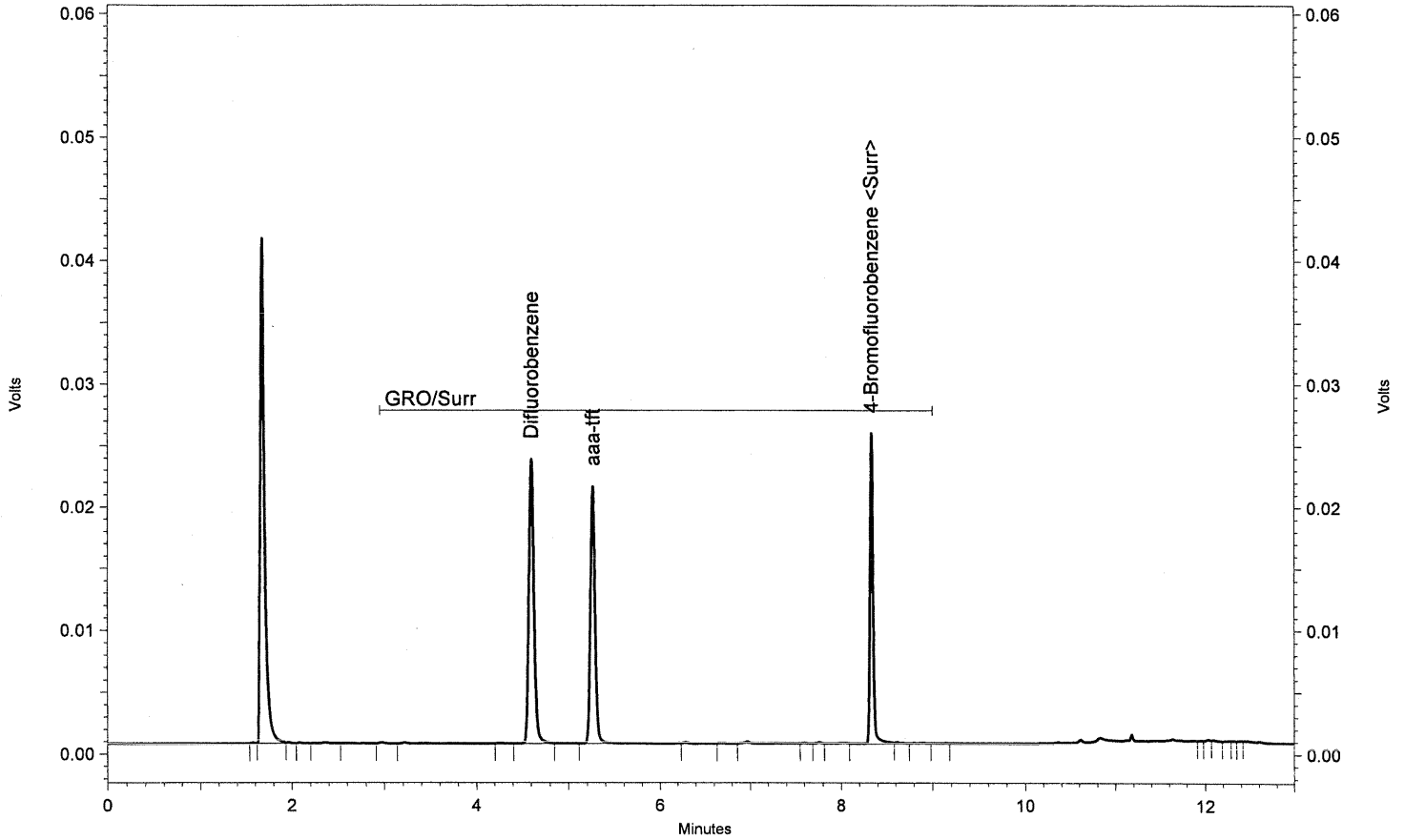
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_001.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.603	89884	50.805	ppb	LL
aaa-tft	5.263	75348	50.905	ppb	LL
4-Bromofluorobenzene <Surr>	8.333	61653	47.150	ppb	LL
GRO		7309	4.871 LC	ppb	
GRO/Surr		234194	156.076	ppb	

SGS Environmental Services Inc.

Sample Name: C6-C10

Date/Time: 8/31/2006 9:34:55 AM

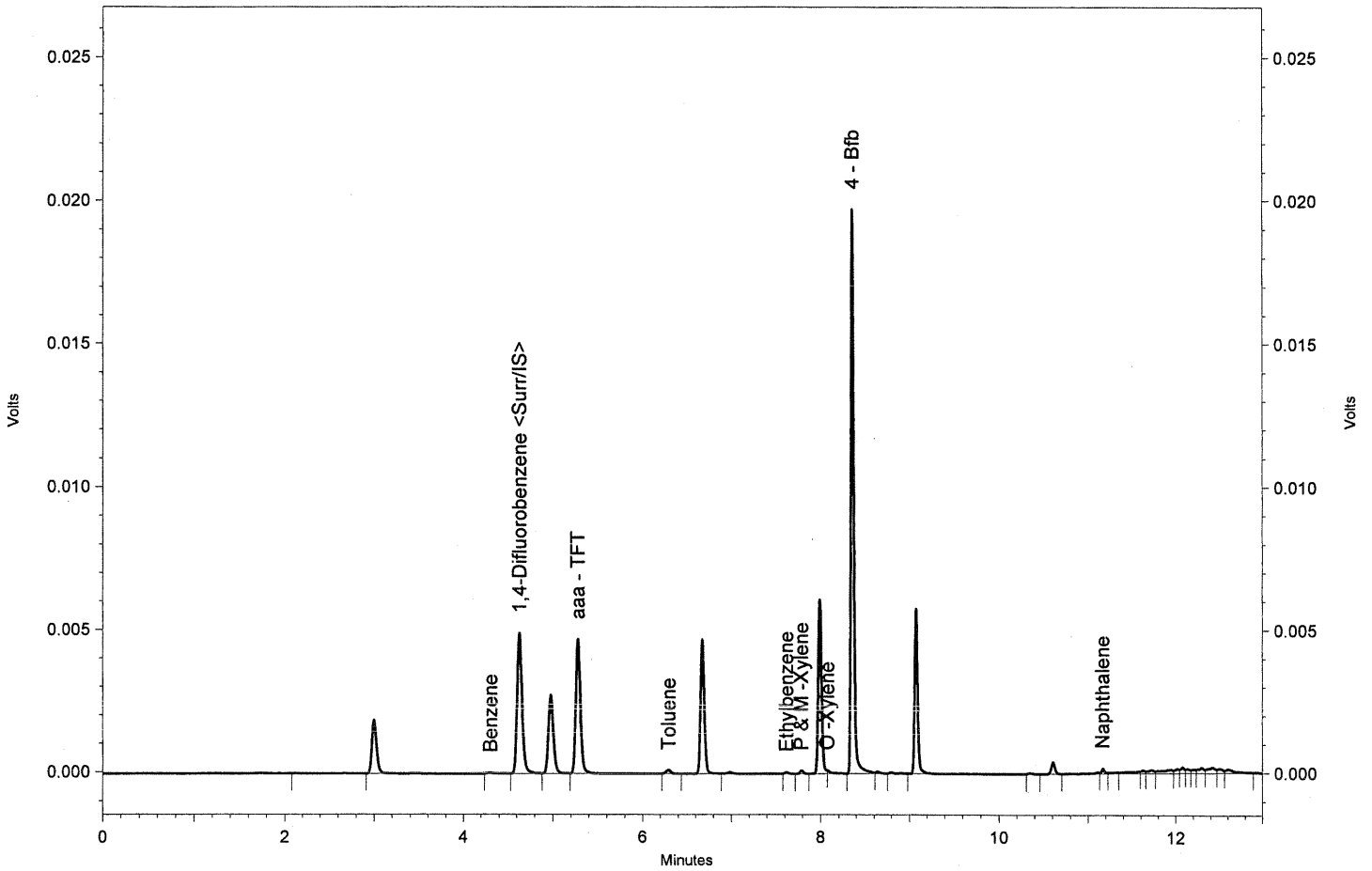
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_002.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
Benzene	4.307	120	0.113 LC	ppb	BB
1,4-Difluorobenzene <Surr/IS>	4.633	19363	49.020	ppb	BV
aaa - TFT	5.280	17172	0.000	ppb	VB
Toluene	6.293	482	0.496 LC	ppb	BB
Ethylbenzene	7.620	148	0.178 LC	ppb	BB
P & M -Xylene	7.790	308	0.314 LC	ppb	BB
O -Xylene	8.073	276	0.314 LC	ppb	SB
4 - Bfb	8.360	46104	48.024	ppb	BV
Naphthalene	11.167	458	1.031 LC	ppb	SV

SGS Environmental Services Inc.

Sample Name: C6-C10

Date/Time: 8/31/2006 9:34:55 AM

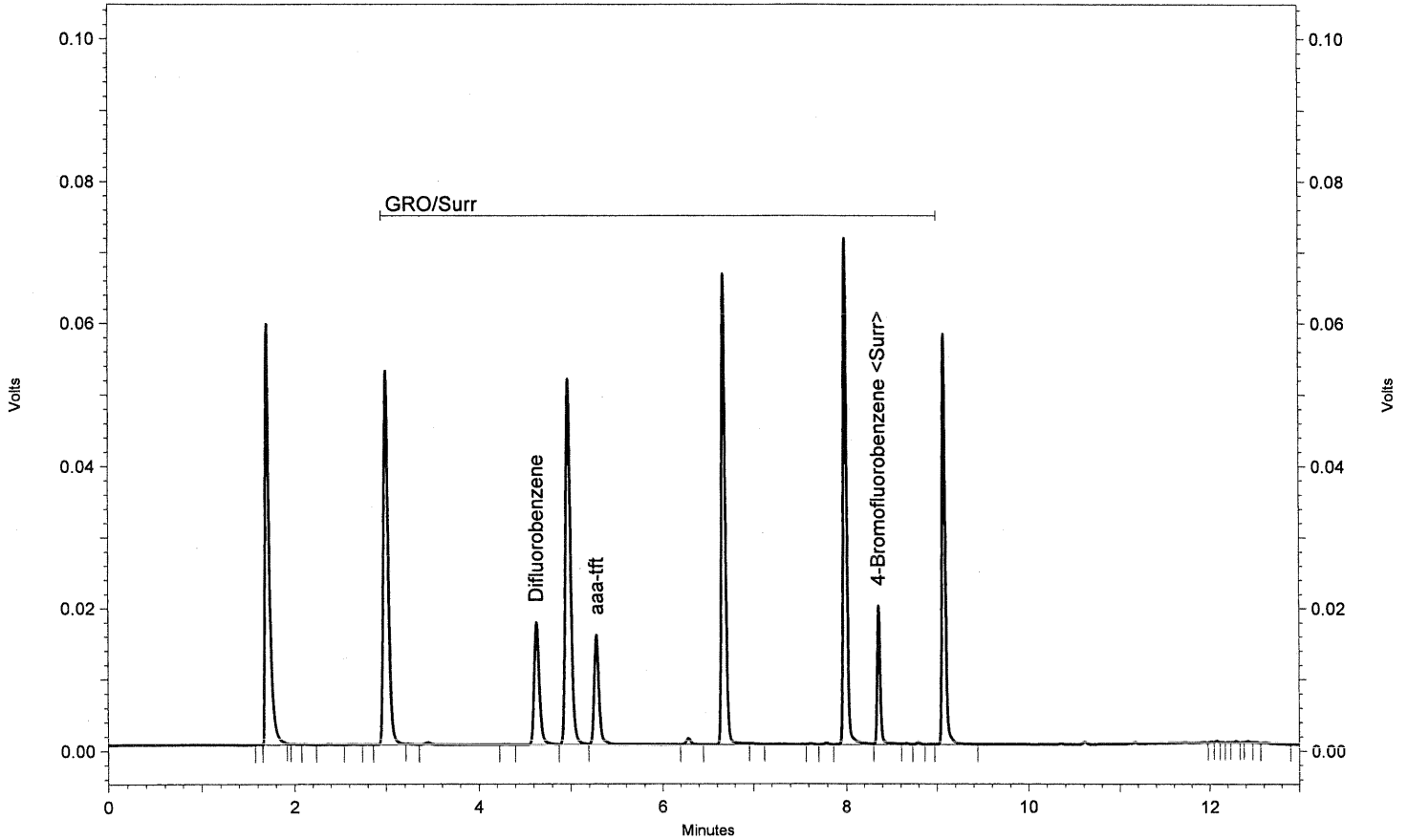
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_002.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.633	68209	38.554	ppb	LL
aaa-tft	5.283	58089	39.245	ppb	LL
4-Bromofluorobenzene <Surr>	8.360	46830	35.814	ppb	LL
GRO		784480	522.809	ppb	
GRO/Surr		957608	638.188	ppb	

SGS Environmental Services Inc.

Sample Name: CCV

Date/Time: 8/31/2006 10:33:05 AM

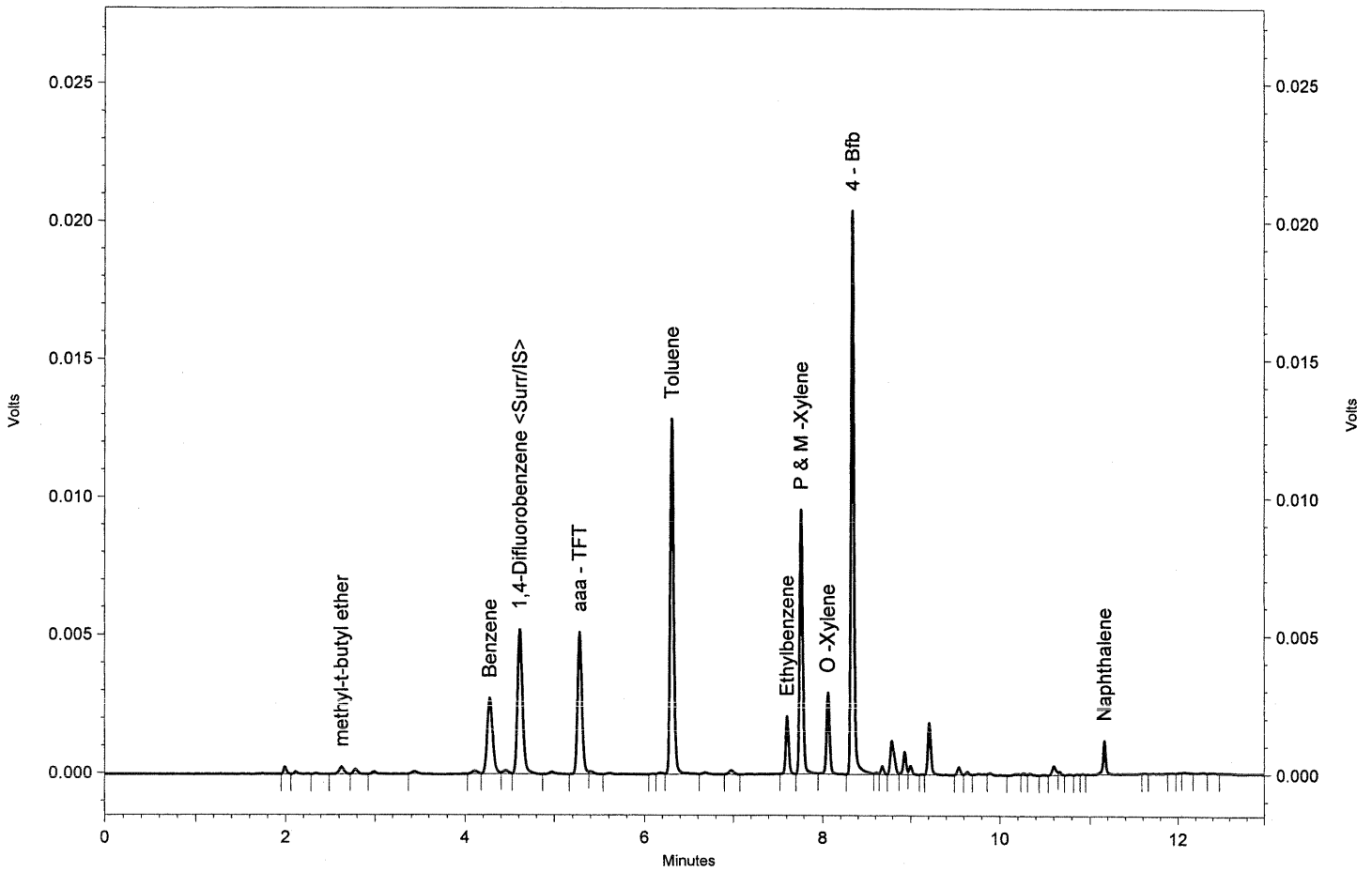
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_005.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.627	1051	2.624	ppb	BV
Benzene	4.273	12020	10.777	ppb	VV
1,4-Difluorobenzene <Surr/IS>	4.613	20702	49.690	ppb	VB
aaa - TFT	5.280	18112	0.000	ppb	VS
Toluene	6.307	35964	35.117	ppb	VV
Ethylbenzene	7.607	5086	5.812	ppb	BV
P & M -Xylene	7.770	24159	23.339	ppb	VV
O -Xylene	8.057	7196	7.769	ppb	VB
4 - Bfb	8.340	47408	46.820	ppb	BV
Naphthalene	11.163	2722	5.807	ppb	SB

SGS Environmental Services Inc.

Sample Name: CCV

Date/Time: 8/31/2006 10:33:05 AM

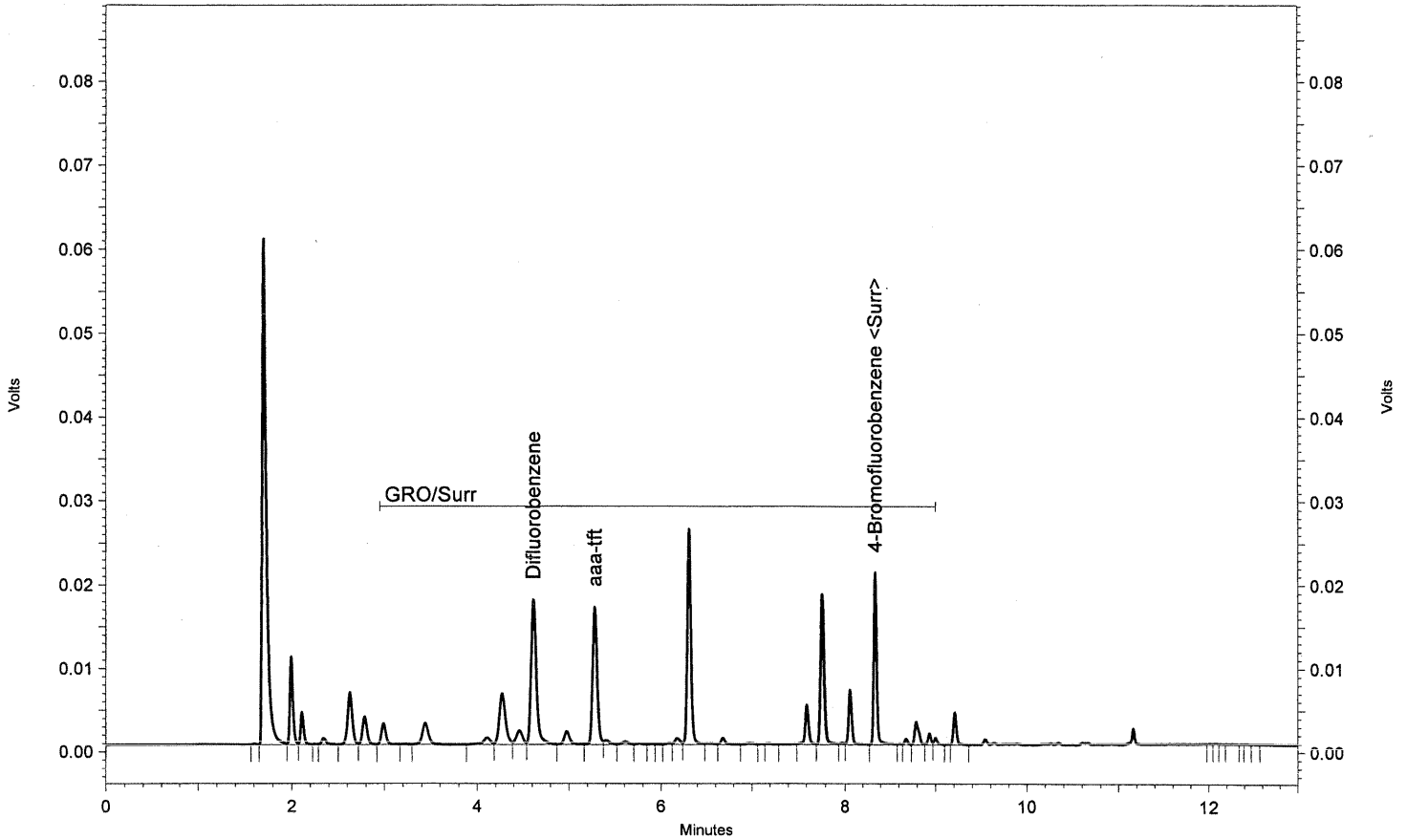
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_005.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.617	71286	40.293	ppb	LL
aaa-tft	5.280	58494	39.518	ppb	LL
4-Bromofluorobenzene <Surr>	8.340	48799	37.320	ppb	LL
GRO		257758	171.780	ppb	
GRO/Surr		436337	290.792	ppb	

SGS Environmental Services Inc.

Sample Name: CCV2

Date/Time: 8/31/2006 10:52:26 AM

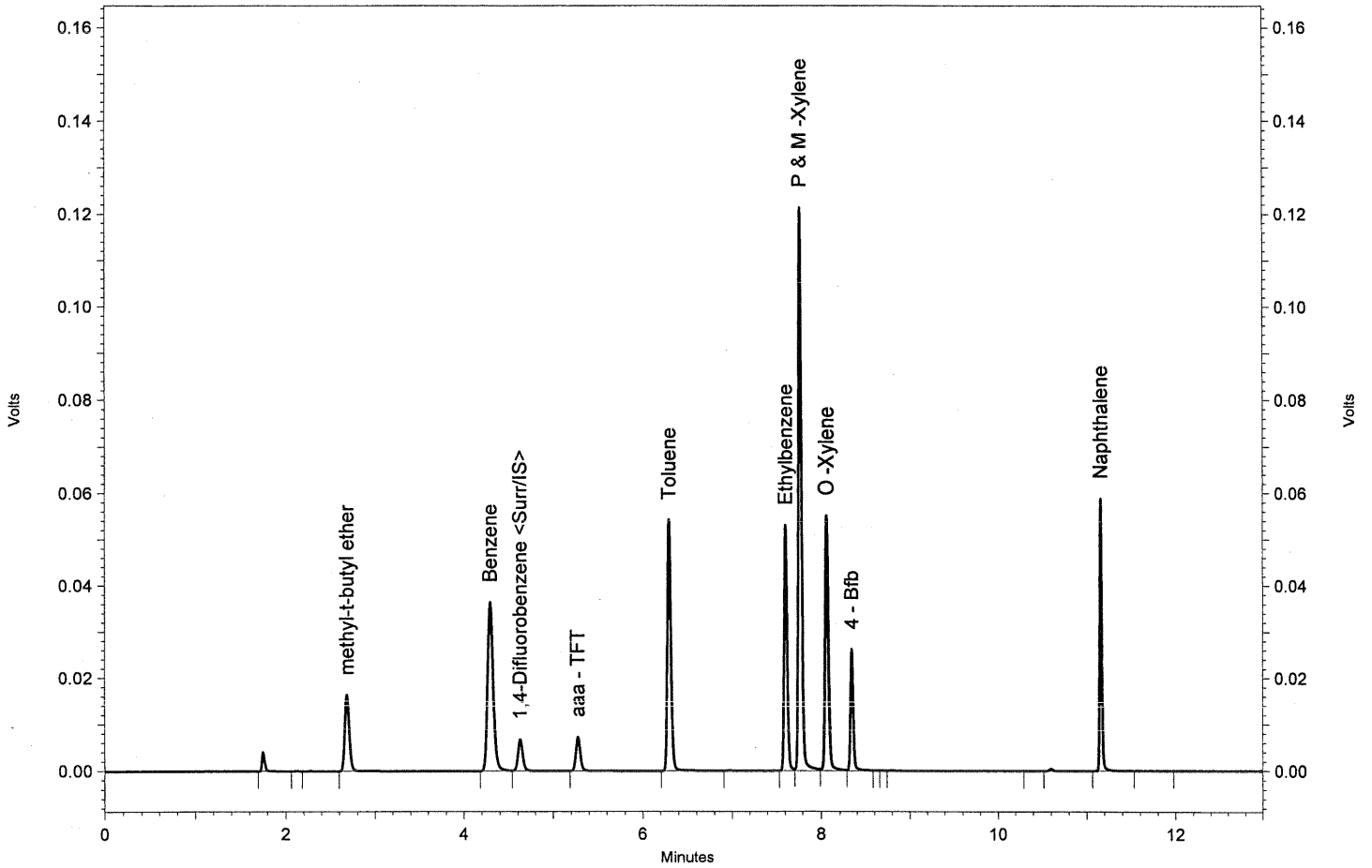
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_006.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.683	56439	101.465	ppb	BB
Benzene	4.293	159475	102.970	ppb	BV
1,4-Difluorobenzene <Surr/IS>	4.627	25996	44.935	ppb	VB
aaa - TFT	5.277	25150	0.000	ppb	BB
Toluene	6.297	150783	106.030	ppb	BB
Ethylbenzene	7.610	130001	106.980	ppb	BV
P & M -Xylene	7.777	308695	214.762	ppb	VV
O -Xylene	8.060	134078	104.242	ppb	VV
4 - Bfb	8.340	60833	43.266	ppb	VV
Naphthalene	11.160	97047	149.100	ppb	BV

SGS Environmental Services Inc.

Sample Name: CCV2

Date/Time: 8/31/2006 10:52:26 AM

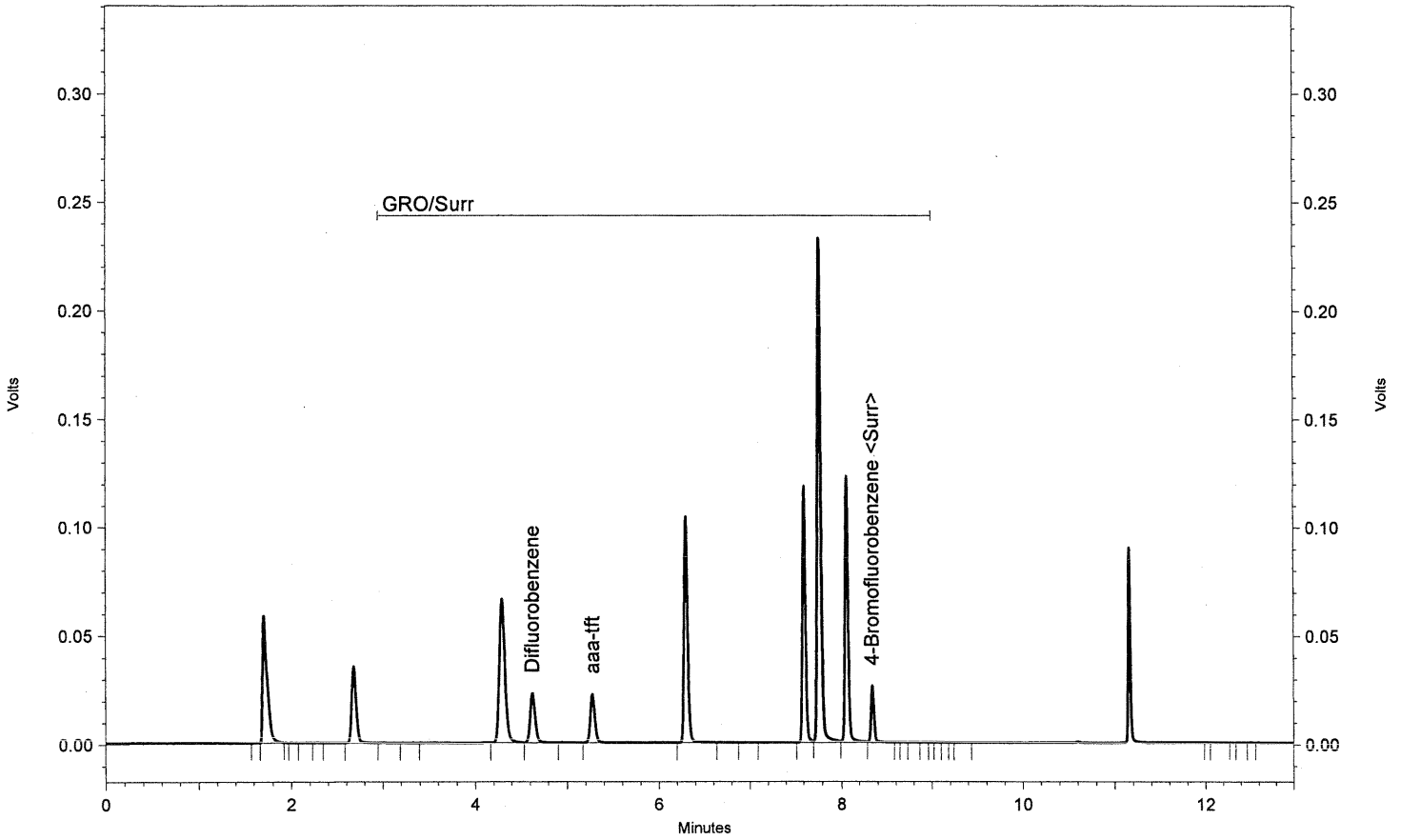
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_006.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.627	88844	50.217	ppb	LL
aaa-tft	5.277	79027	53.391	ppb	LL
4-Bromofluorobenzene <Surr>	8.340	64085	49.010	ppb	LL
GRO		1767609	1178.006	ppb	
GRO/Surr		1999565	1332.590	ppb	

SGS Environmental Services Inc.

Sample Name: MB-H2O

Date/Time: 8/31/2006 11:48:00 AM

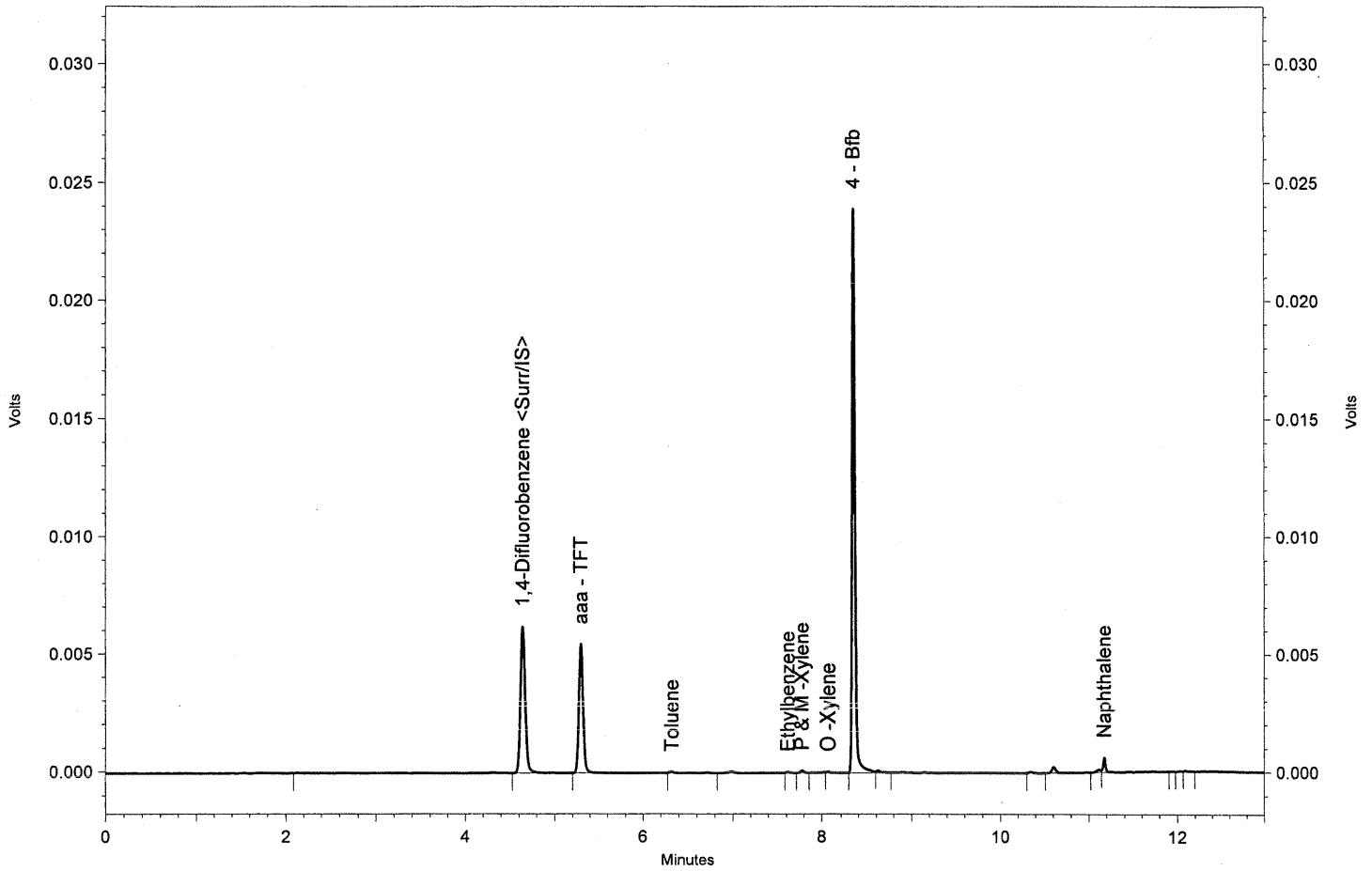
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_007.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
1,4-Difluorobenzene <Surr/IS>	4.643	23494	54.307	ppb	SB
aaa - TFT	5.297	18807	0.000	ppb	BB
Toluene	6.320	156	0.147 LC	ppb	BB
Ethylbenzene	7.617	100	0.110 LC	ppb	BB
P & M -Xylene	7.780	262	0.244 LC	ppb	BV
O -Xylene	8.067	118	0.123 LC	ppb	SB
4 - Bfb	8.347	55499	52.785	ppb	BV
Naphthalene	11.173	1239	2.546	ppb	SB

SGS Environmental Services Inc.

Sample Name: MB-H2O

Date/Time: 8/31/2006 11:48:00 AM

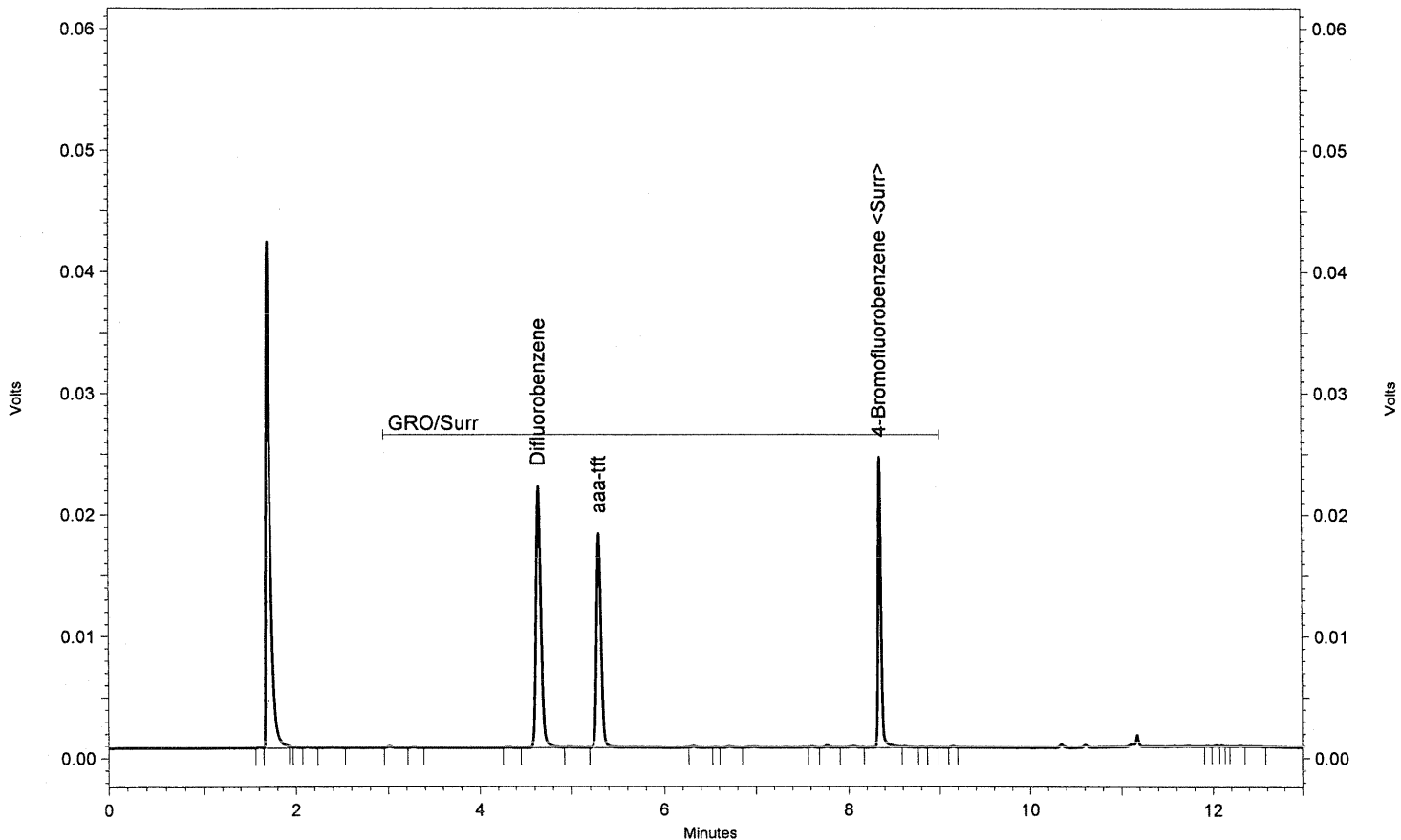
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_007.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.643	82174	46.447	ppb	LL
aaa-tft	5.297	61413	41.491	ppb	LL
4-Bromofluorobenzene <Surr>	8.347	56331	43.080	ppb	LL
GRO		7328	4.884 LC	ppb	
GRO/Surr		207246	138.117	ppb	

SGS Environmental Services Inc.

Sample Name: LCS-H2O* BTEX

Date/Time: 8/31/2006 1:41:22 PM

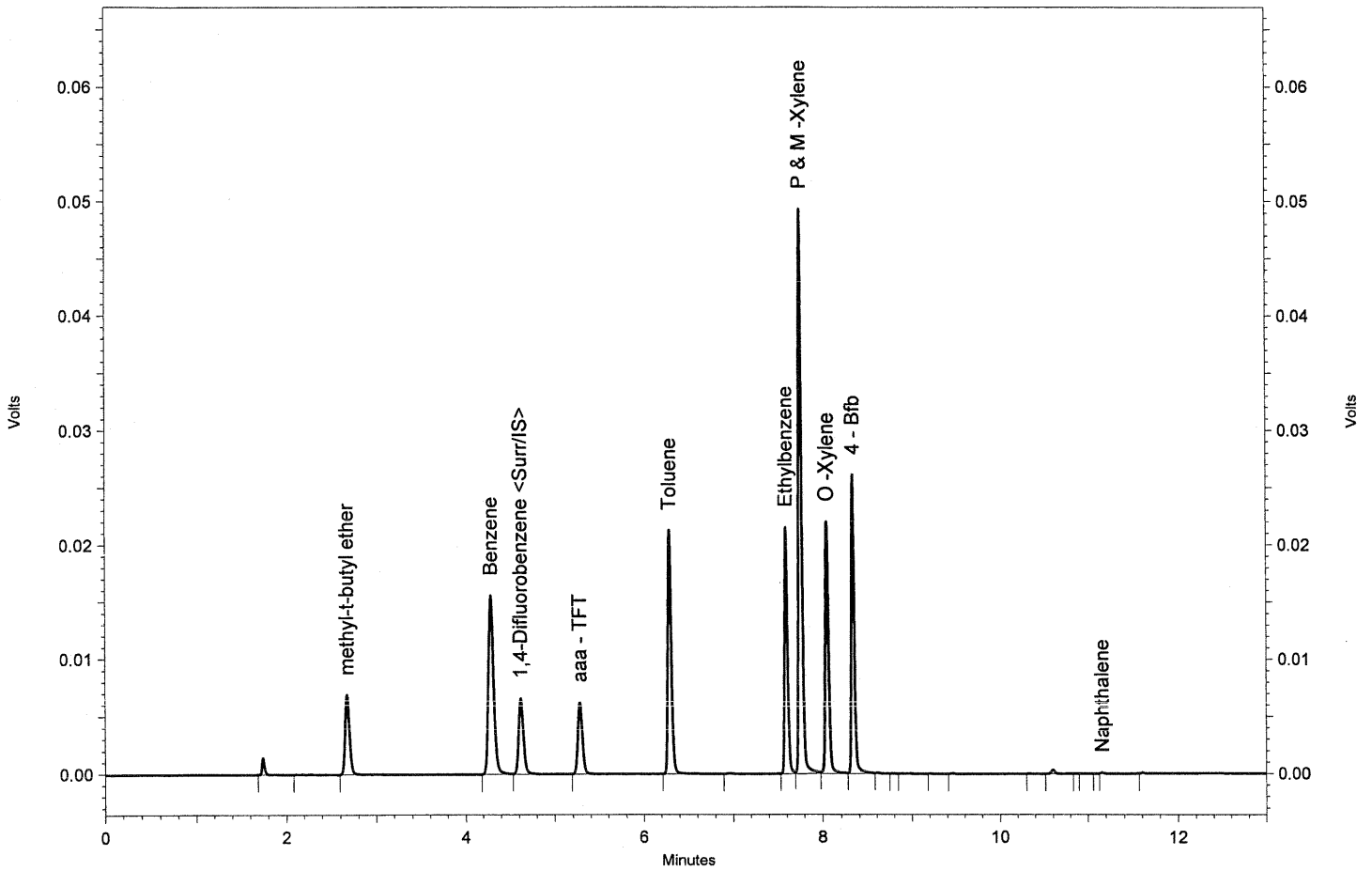
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_011.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.673	23383	47.930	ppb	BB
Benzene	4.290	64739	47.660	ppb	BV
1,4-Difluorobenzene <Surr/IS>	4.620	25228	49.721	ppb	VB
aaa - TFT	5.280	22058	0.000	ppb	BB
Toluene	6.293	58812	47.153	ppb	BB
Ethylbenzene	7.597	52373	49.140	ppb	BV
P & M -Xylene	7.767	126905	100.665	ppb	VV
O -Xylene	8.050	54243	48.084	ppb	VV
4 - Bfb	8.333	60213	48.828	ppb	VV
Naphthalene	11.157	221	0.387 LC	ppb	SB

SGS Environmental Services Inc.

Sample Name: LCS-H2O* BTEX

Date/Time: 8/31/2006 1:41:22 PM

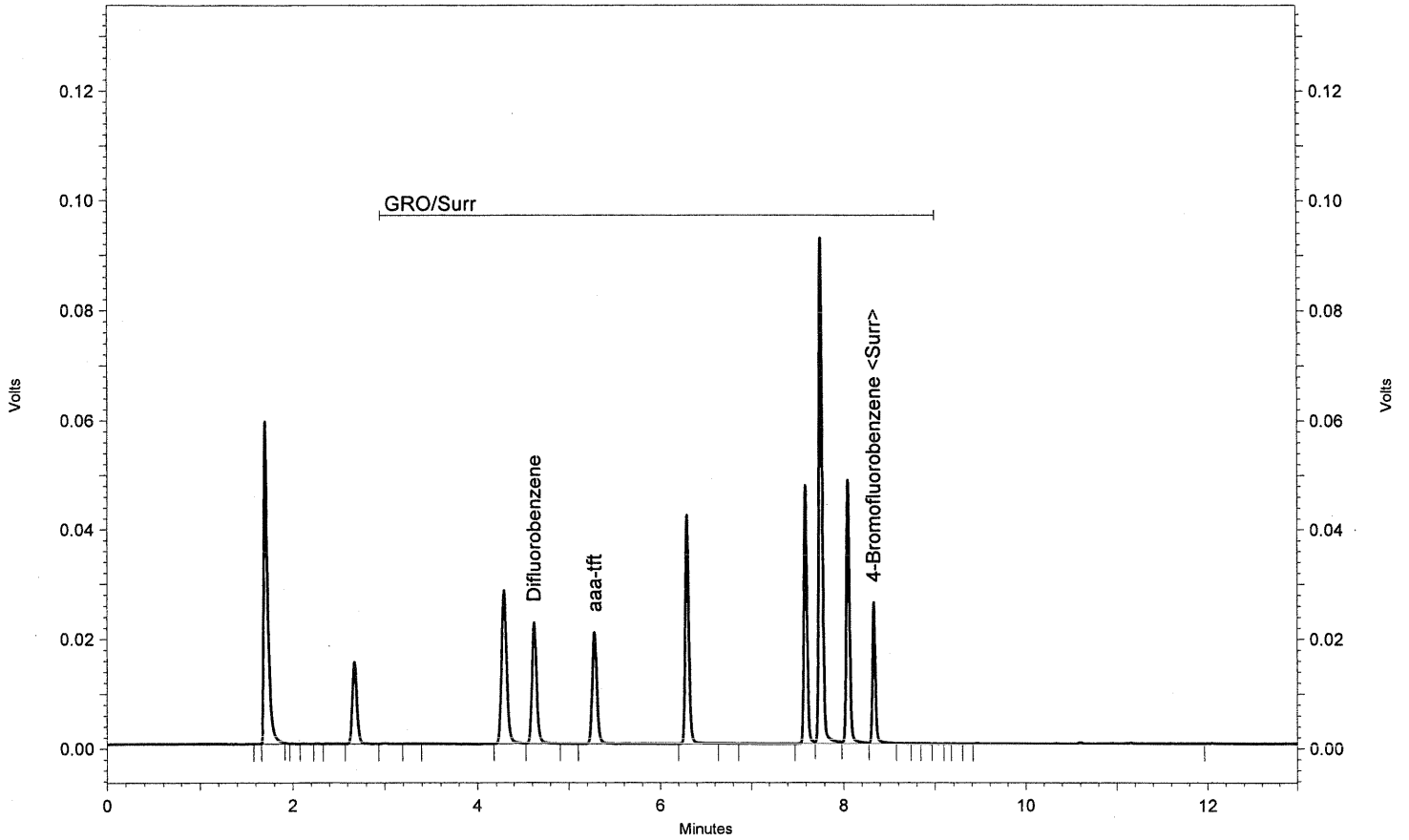
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_011.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.623	85181	48.147	ppb	LL
aaa-tft	5.280	72627	49.067	ppb	LL
4-Bromofluorobenzene <Surr>	8.333	60789	46.489	ppb	LL
GRO		710027	473.190	ppb	
GRO/Surr		928624	618.872	ppb	

SGS Environmental Services Inc.

Sample Name: LCS-H2O* GRO

Date/Time: 8/31/2006 2:00:38 PM

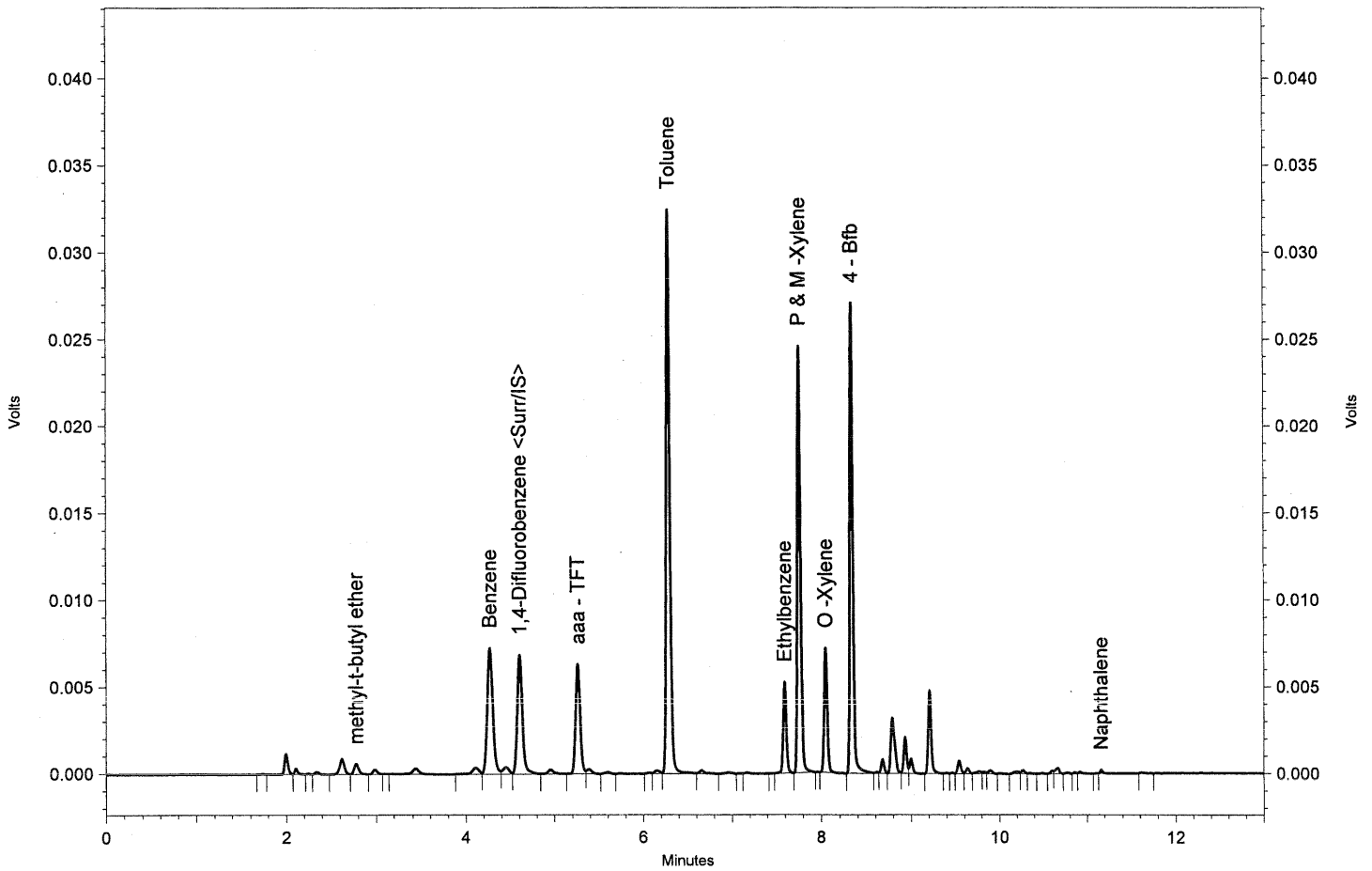
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_012.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.777	2214	4.441	ppb	VV
Benzene	4.270	32041	23.082	ppb	VV
1,4-Difluorobenzene <Surr/IS>	4.607	27404	52.850	ppb	VV
aaa - TFT	5.263	22542	0.000	ppb	VV
Toluene	6.287	92407	72.498	ppb	VV
Ethylbenzene	7.597	12990	11.926	ppb	SB
P & M -Xylene	7.760	61063	47.397	ppb	BB
O -Xylene	8.050	17238	14.953	ppb	SB
4 - Bfb	8.337	63103	50.073	ppb	BV
Naphthalene	11.160	398	0.682	LC ppb	SB

SGS Environmental Services Inc.

Sample Name: LCS-H2O* GRO

Date/Time: 8/31/2006 2:00:38 PM

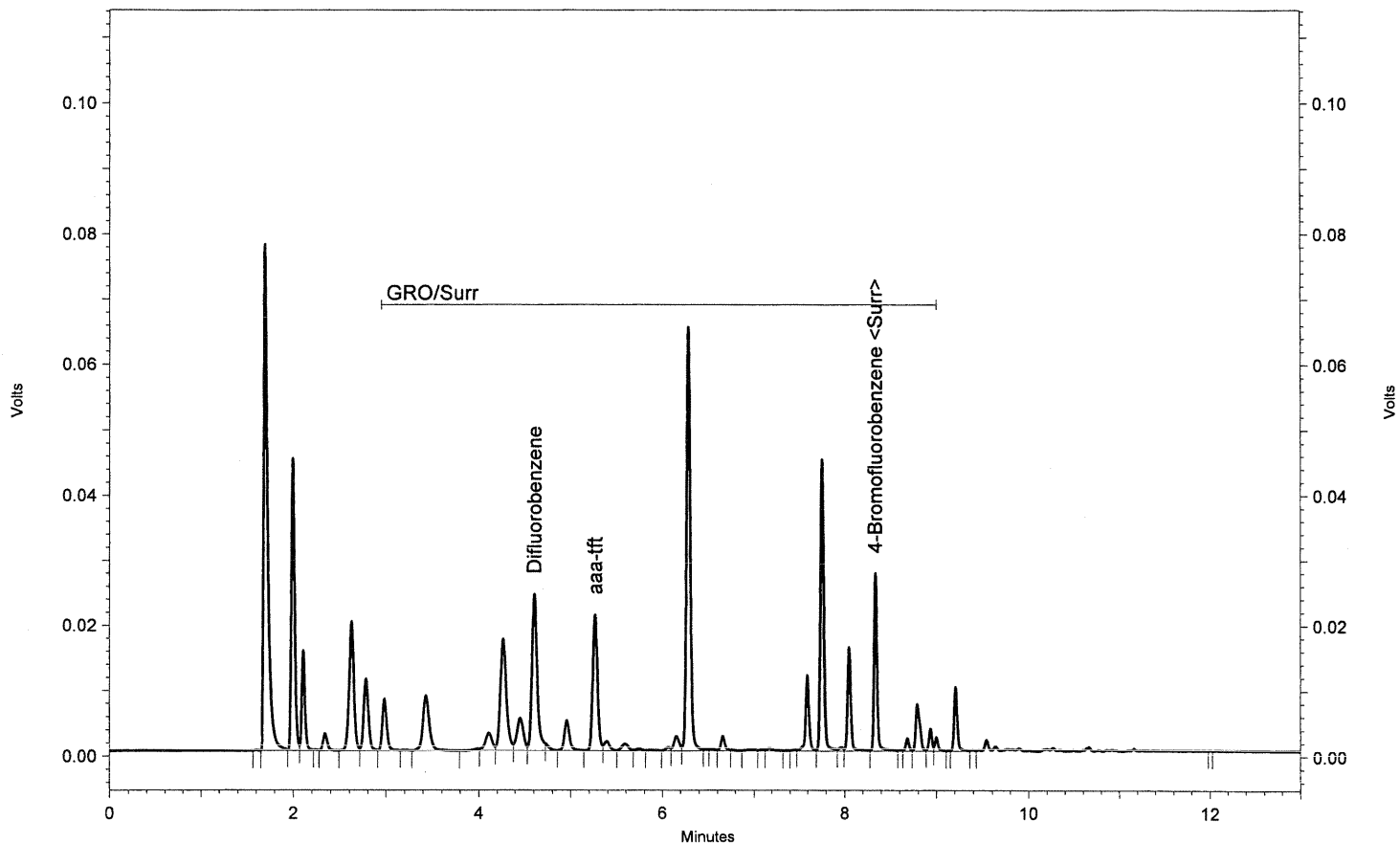
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_012.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.607	98736	55.809	ppb	LL
aaa-tft	5.263	74566	50.377	ppb	LL
4-Bromofluorobenzene <Surr>	8.337	65134	49.812	ppb	LL
GRO		677553	451.549	ppb	
GRO/Surr		915989	610.452	ppb	

SGS Environmental Services Inc.

Sample Name: 1064875012 C

Date/Time: 8/31/2006 2:38:18 PM

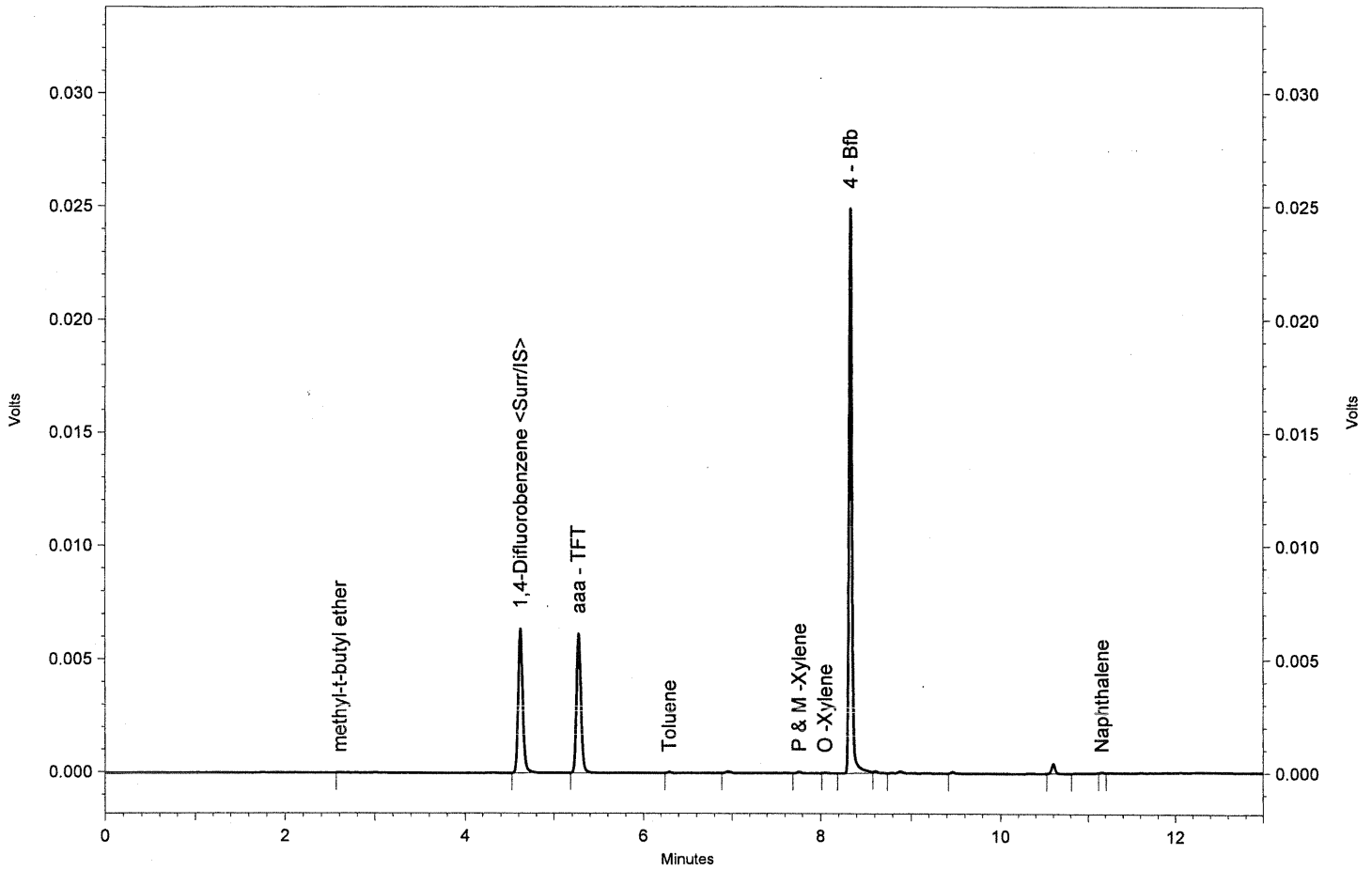
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_013.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.603	45	0.095 LC	ppb	BS
1,4-Difluorobenzene <Surr/IS>	4.623	23776	48.057	ppb	BB
aaa - TFT	5.273	21508	0.000	ppb	BB
Toluene	6.293	153	0.126 LC	ppb	BB
P & M -Xylene	7.767	194	0.158 LC	ppb	SB
O -Xylene	8.050	44	0.040 LC	ppb	BB
4 - Bfb	8.333	58131	48.345	ppb	BV
Naphthalene	11.160	106	0.190 LC	ppb	BB

SGS Environmental Services Inc.

Sample Name: 1064875012 C

Date/Time: 8/31/2006 2:38:18 PM

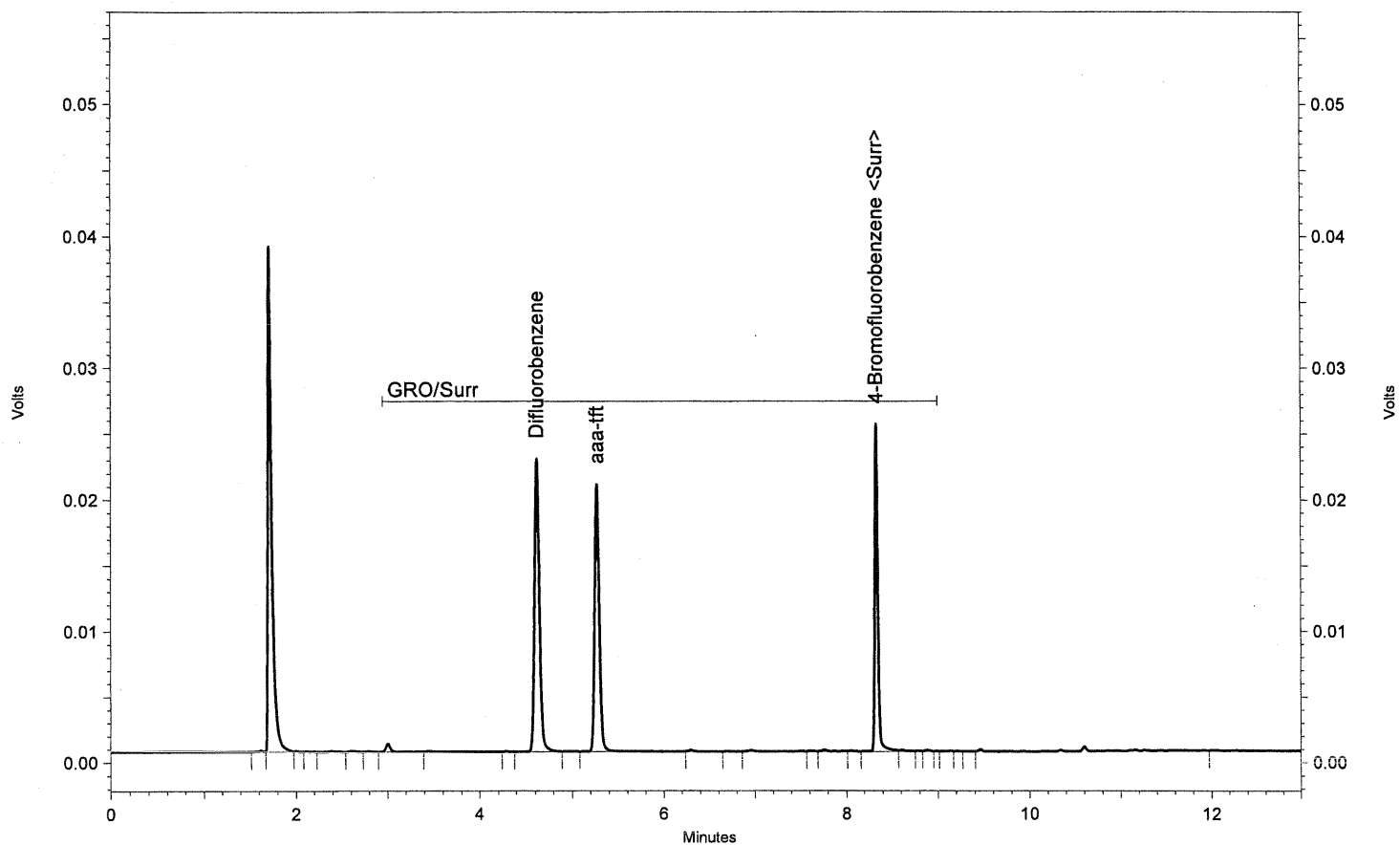
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_013.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.623	83826	47.381	ppb	LL
aaa-tft	5.273	72212	48.786	ppb	LL
4-Bromofluorobenzene <Surr>	8.333	58945	45.079	ppb	LL
GRO		7353	4.900	LC	ppb
GRO/Surr		222336	148.174	ppb	

SGS Environmental Services Inc.

Sample Name: 1064875001B

Date/Time: 8/31/2006 4:07:05 PM

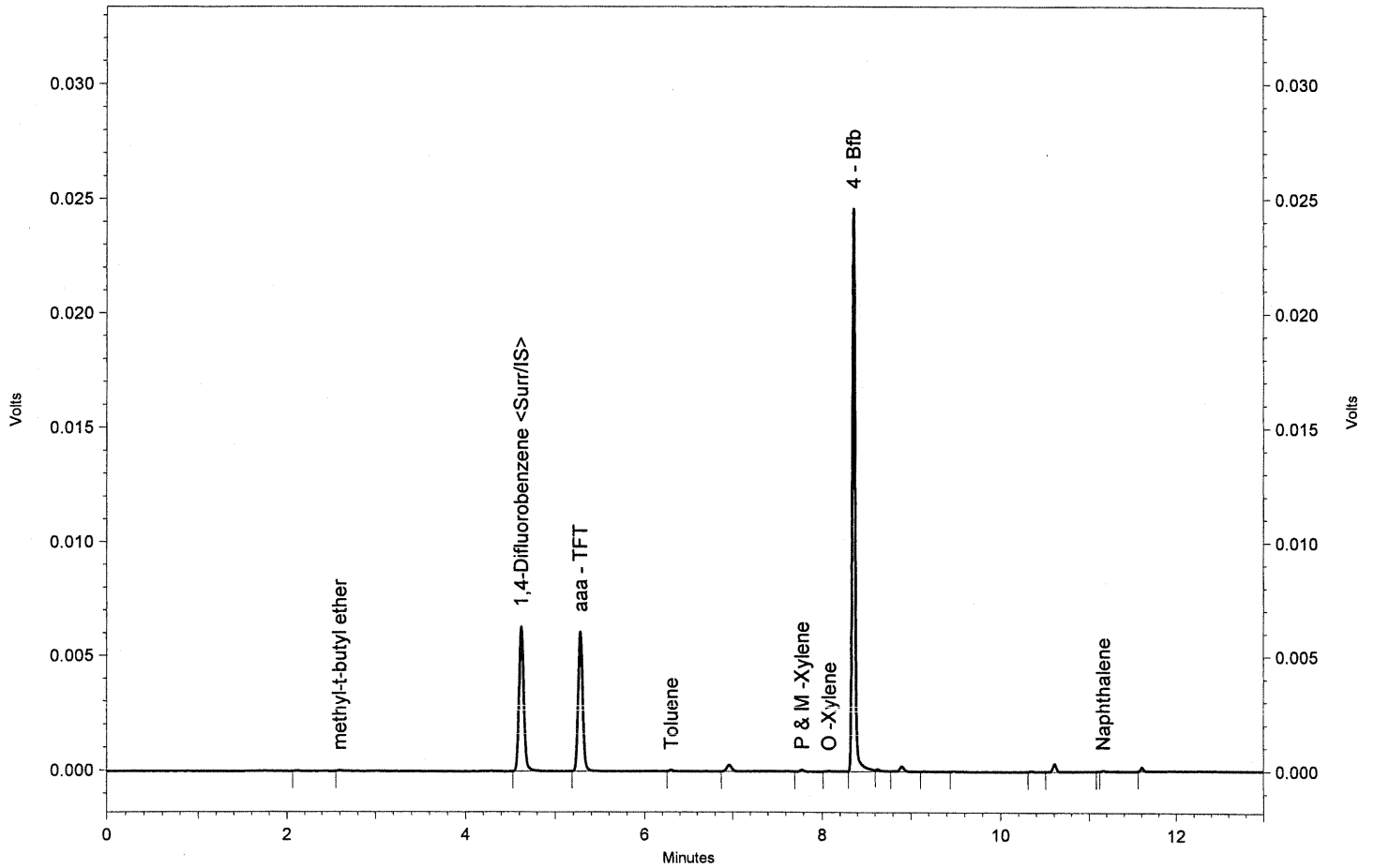
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_016.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.593	107	0.226 LC	ppb	BB
1,4-Difluorobenzene <Surr/IS>	4.623	23623	48.020	ppb	BB
aaa - TFT	5.280	21386	0.000	ppb	BB
Toluene	6.300	181	0.150 LC	ppb	BB
P & M -Xylene	7.783	199	0.163 LC	ppb	SB
O -Xylene	8.077	76	0.069 LC	ppb	BB
4 - Bfb	8.357	57129	47.783	ppb	BV
Naphthalene	11.163	121	0.219 LC	ppb	SB

SGS Environmental Services Inc.

Sample Name: 1064875001B

Date/Time: 8/31/2006 4:07:05 PM

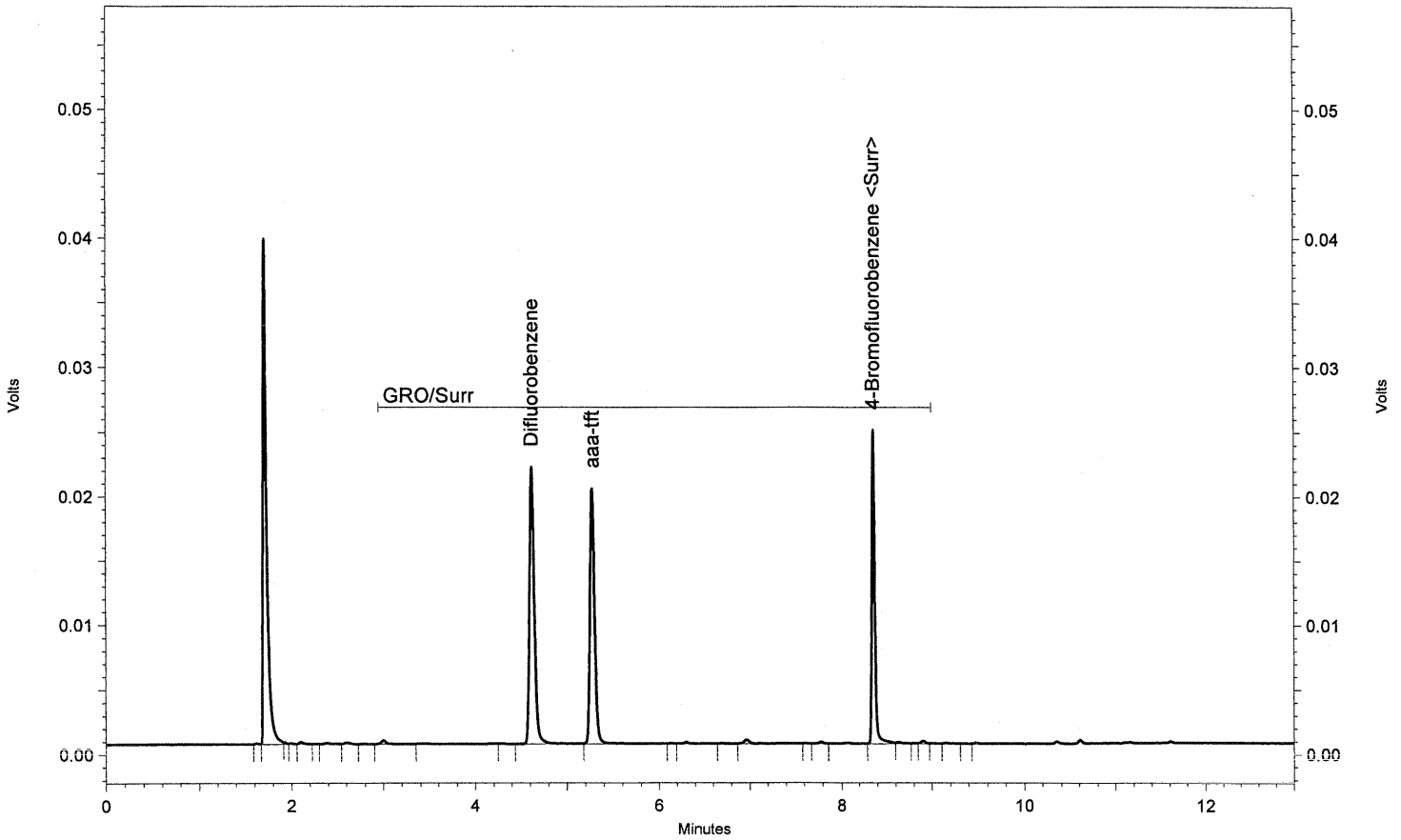
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_016.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.623	81618	46.133	ppb	LL
aaa-tft	5.280	70478	47.615	ppb	LL
4-Bromofluorobenzene <Surr>	8.357	57360	43.867	ppb	LL
GRO		8939	5.957	LC ppb	
GRO/Surr		218395	145.547	ppb	

SGS Environmental Services Inc.

Sample Name: MS 1064005012 A

Date/Time: 8/31/2006 7:04:20 PM

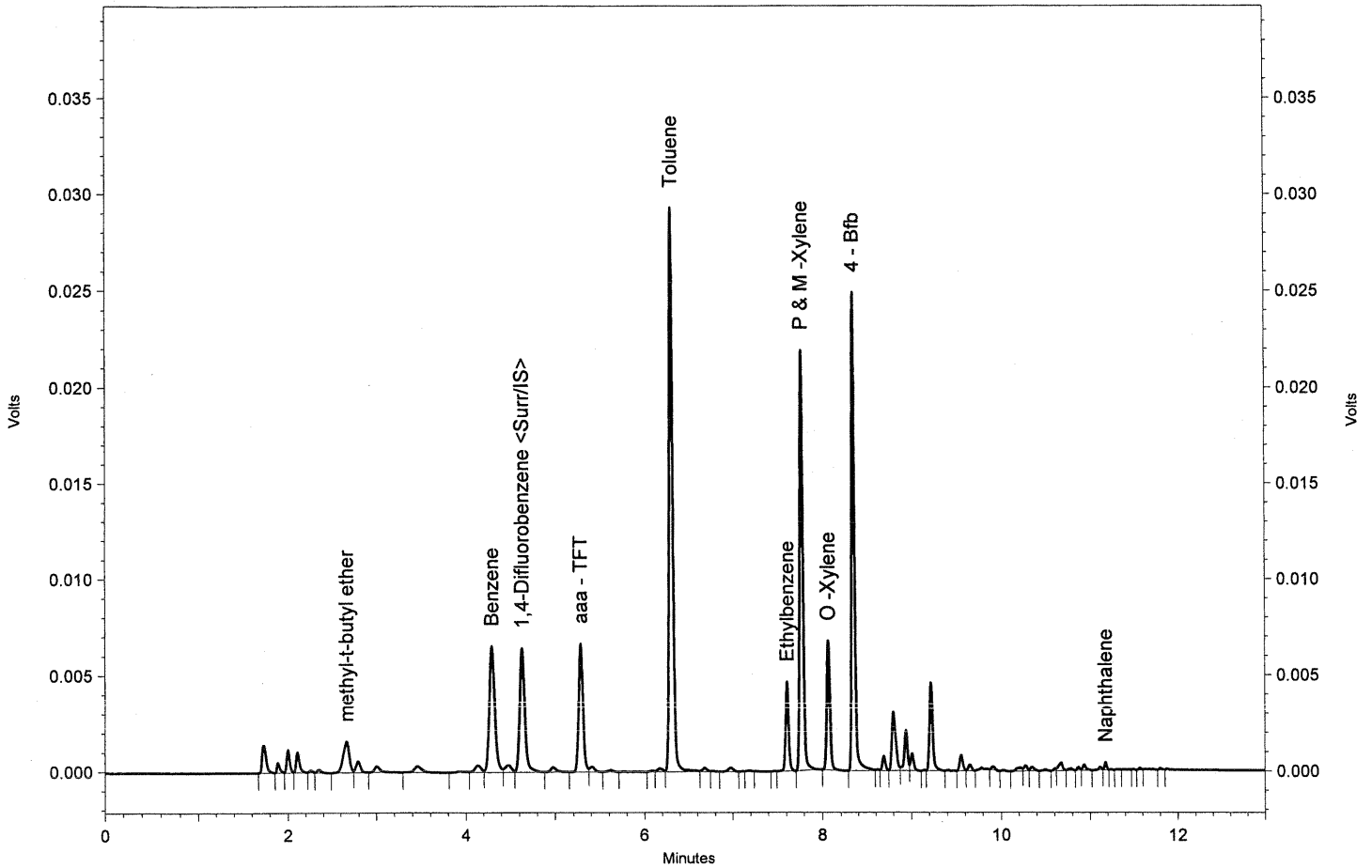
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_022.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.667	7840	15.005	ppb	BV
Benzene	4.297	28559	19.631	ppb	VV
1,4-Difluorobenzene <Surr/IS>	4.633	25516	46.955	ppb	VV
aaa - TFT	5.287	23624	0.000	ppb	VV
Toluene	6.307	83291	62.353	ppb	VV
Ethylbenzene	7.613	11493	10.069	ppb	SB
P & M -Xylene	7.777	55095	40.806	ppb	BS
O -Xylene	8.063	16138	13.357	ppb	BB
4 - Bfb	8.347	58243	44.099	ppb	BV
Naphthalene	11.177	729	1.192 LC	ppb	SS

SGS Environmental Services Inc.

Sample Name: MS 1064005012 A

Date/Time: 8/31/2006 7:04:20 PM

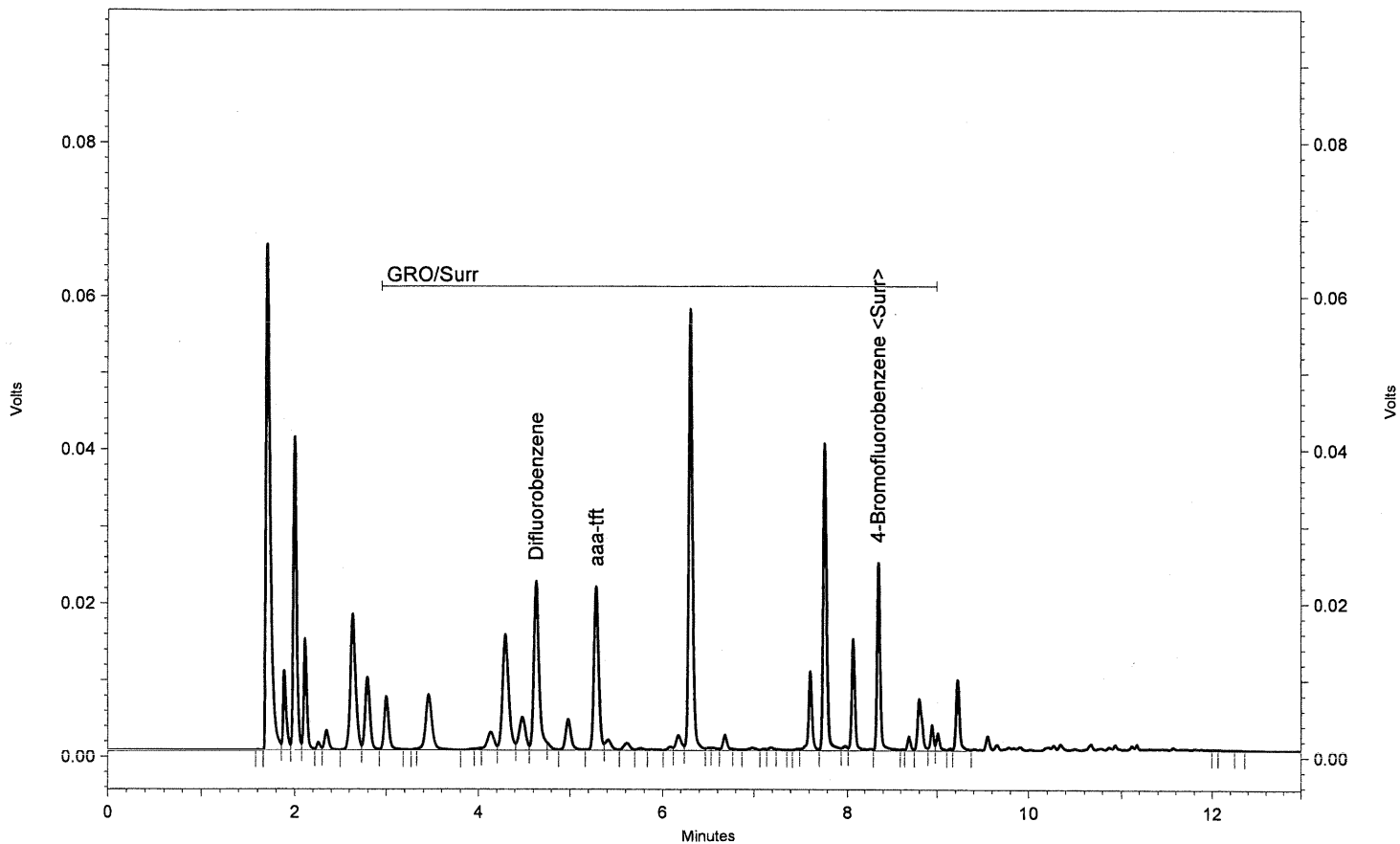
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_022.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.633	89667	50.683	ppb	LL
aaa-tft	5.287	76166	51.458	ppb	LL
4-Bromofluorobenzene <Surr>	8.347	59808	45.739	ppb	LL
GRO		608419	405.475	ppb	
GRO/Surr		834060	555.851	ppb	

SGS Environmental Services Inc.

Sample Name: MSD 1064005012 A

Date/Time: 8/31/2006 7:23:42 PM

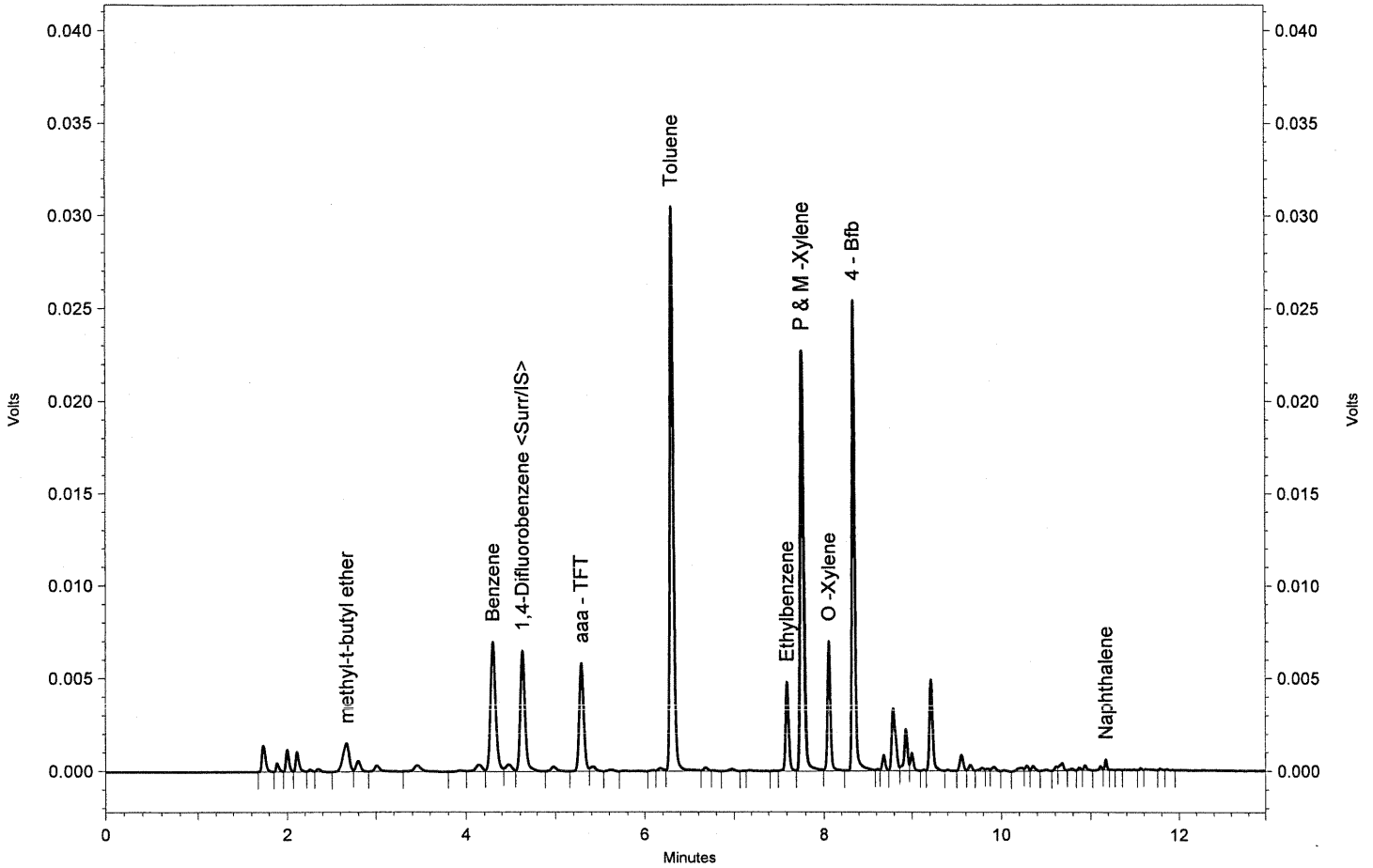
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_023.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.673	7610	16.642	ppb	BV
Benzene	4.300	29806	23.411	ppb	VV
1,4-Difluorobenzene <Surr/IS>	4.633	25744	54.132	ppb	VV
aaa - TFT	5.290	20675	0.000	ppb	VV
Toluene	6.307	85186	72.868	ppb	VV
Ethylbenzene	7.607	12078	12.090	ppb	SV
P & M -Xylene	7.773	57831	48.942	ppb	VV
O -Xylene	8.060	17504	16.554	ppb	VV
4 - Bfb	8.340	59159	51.182	ppb	VV
Naphthalene	11.173	988	1.846 LC	ppb	VS

SGS Environmental Services Inc.

Sample Name: MSD 1064005012 A

Date/Time: 8/31/2006 7:23:42 PM

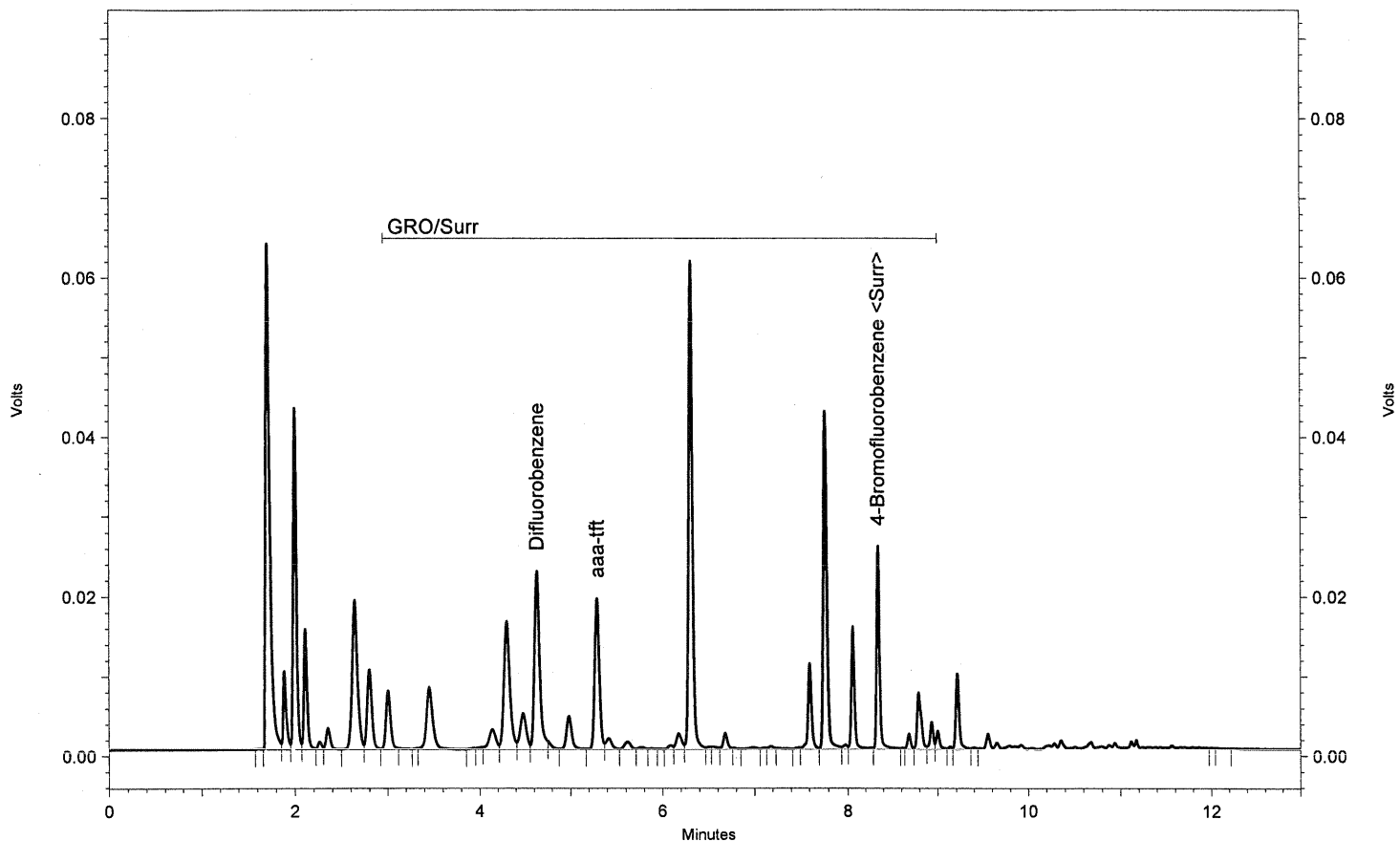
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_023.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.633	91037	51.457	ppb	LL
aaa-tft	5.290	67649	45.704	ppb	LL
4-Bromofluorobenzene <Surr>	8.343	61184	46.791	ppb	LL
GRO		632315	421.400	ppb	
GRO/Surr		852185	567.930	ppb	

SGS Environmental Services Inc.

Sample Name: MS 1064005012 A

Date/Time: 8/31/2006 8:03:48 PM

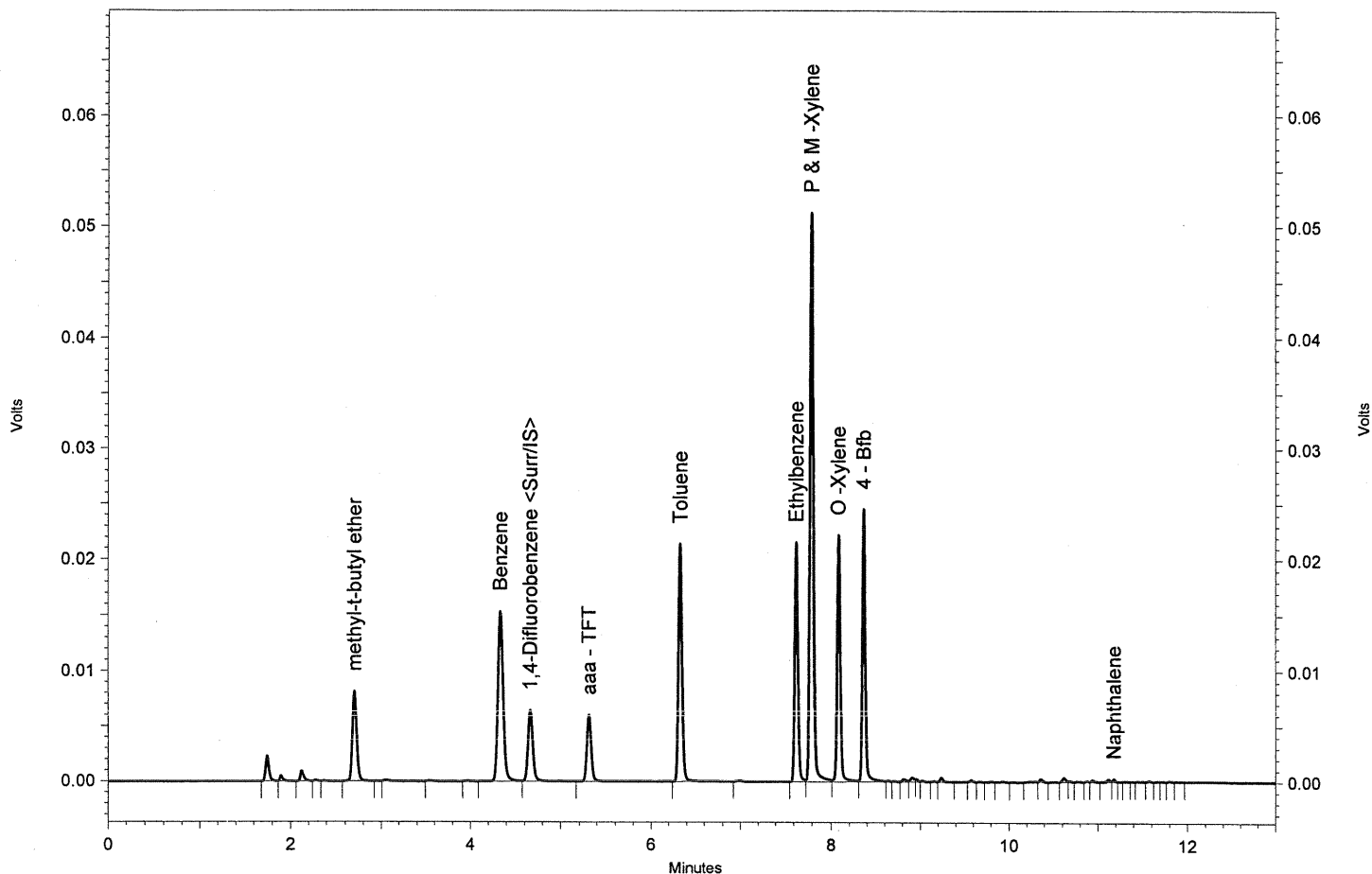
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_025.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.700	27713	59.264	ppb	BV
Benzene	4.333	63324	48.636	ppb	BV
1,4-Difluorobenzene <Surr/IS>	4.663	23946	49.236	ppb	VB
aaa - TFT	5.313	21143	0.000	ppb	SB
Toluene	6.327	58751	49.143	ppb	BB
Ethylbenzene	7.630	52307	51.202	ppb	BV
P & M -Xylene	7.797	129682	107.320	ppb	VV
O -Xylene	8.080	55675	51.489	ppb	VV
4 - Bfb	8.367	57717	48.829	ppb	VV
Naphthalene	11.180	458	0.837 LC	ppb	VV

SGS Environmental Services Inc.

Sample Name: MS 1064005012 A

Date/Time: 8/31/2006 8:03:48 PM

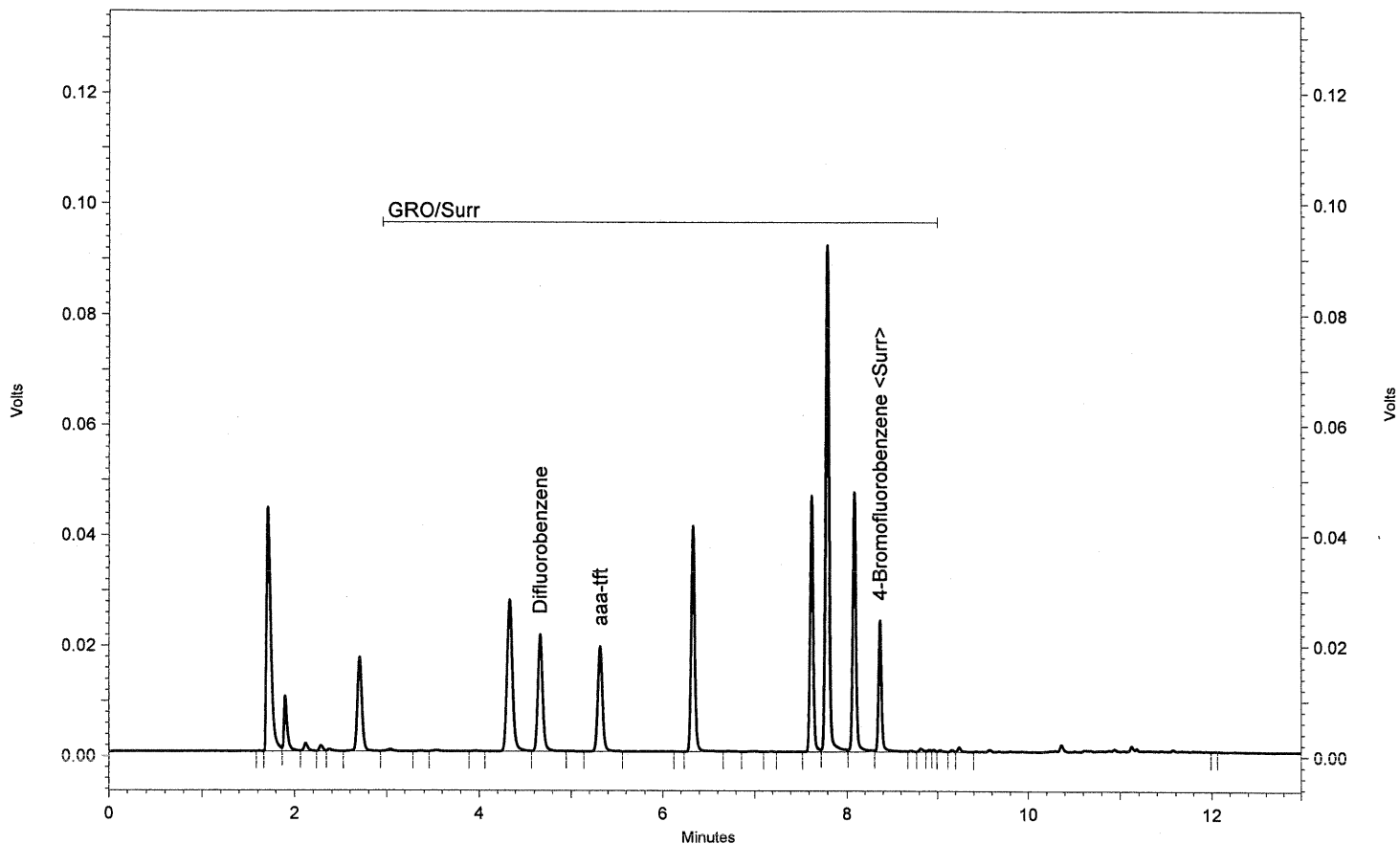
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_025.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.663	79936	45.182	ppb	LL
aaa-tft	5.313	67727	45.756	ppb	LL
4-Bromofluorobenzene <Surr>	8.367	57226	43.765	ppb	LL
GRO		705310	470.047	ppb	
GRO/Surr		910199	606.593	ppb	

SGS Environmental Services Inc.

Sample Name: MSD 1064005012 A

Date/Time: 8/31/2006 8:23:18 PM

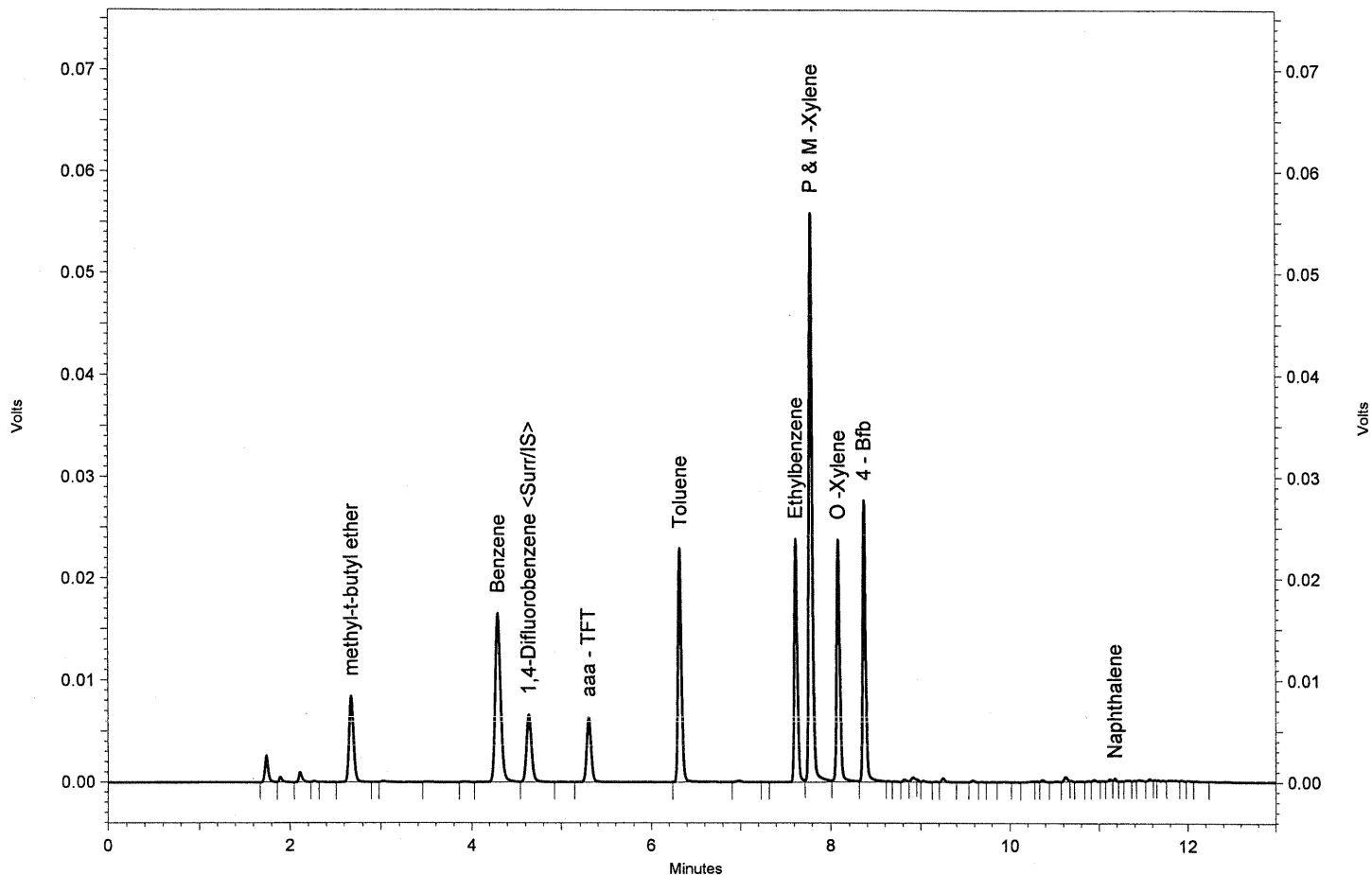
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_026.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.677	28594	58.101	ppb	BV
Benzene	4.297	70872	51.720	ppb	VV
1,4-Difluorobenzene <Surr/IS>	4.637	25861	50.524	ppb	VV
aaa - TFT	5.297	22252	0.000	ppb	VB
Toluene	6.323	63057	50.116	ppb	BB
Ethylbenzene	7.620	58910	54.791	ppb	SV
P & M -Xylene	7.790	143508	112.843	ppb	VV
O -Xylene	8.083	60027	52.747	ppb	VV
4 - Bfb	8.367	63338	50.914	ppb	VV
Naphthalene	11.177	518	0.899 LC	ppb	VV

SGS Environmental Services Inc.

Sample Name: MSD 1064005012 A

Date/Time: 8/31/2006 8:23:18 PM

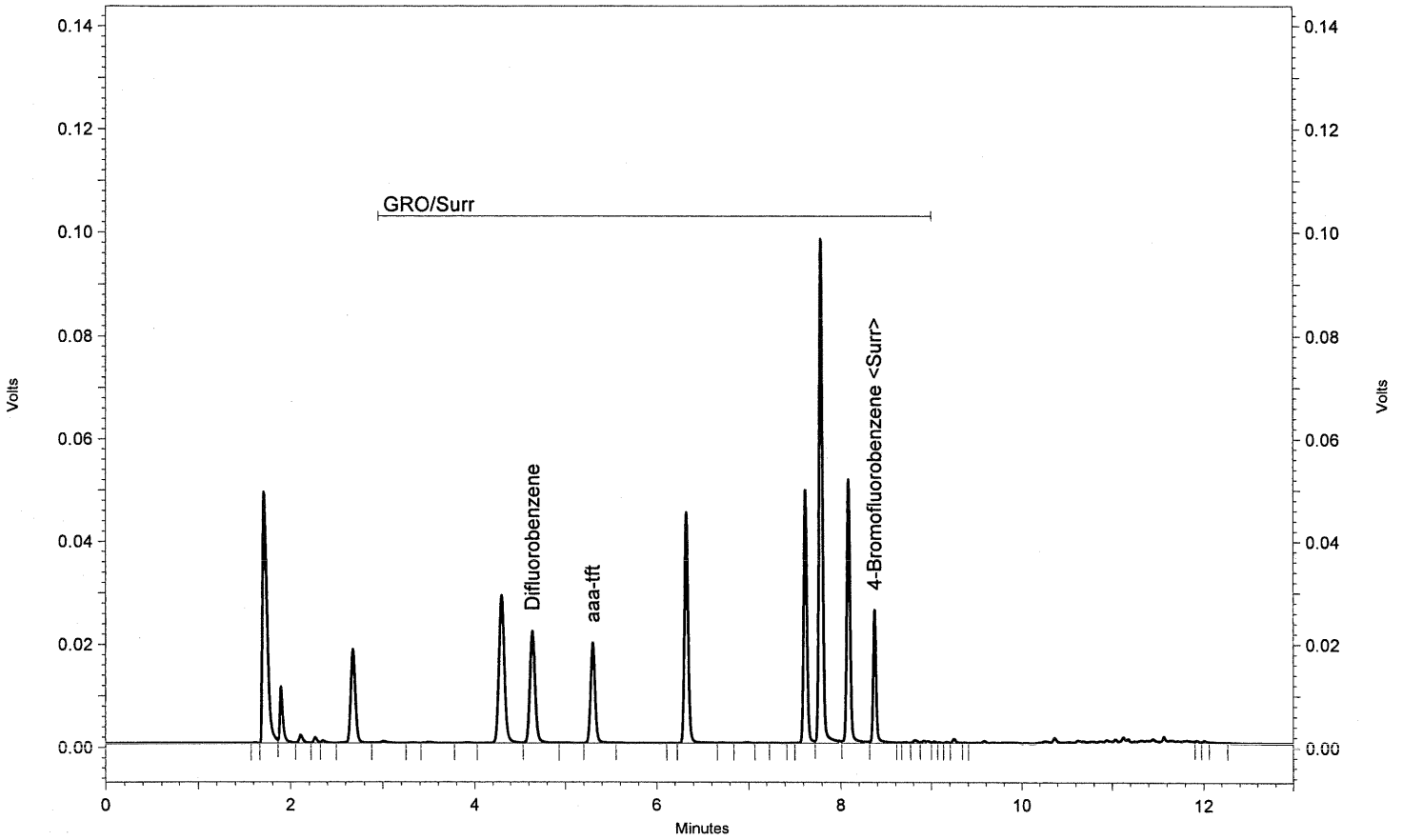
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_026.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.637	85756	48.472	ppb	LL
aaa-tft	5.297	69503	46.956	ppb	LL
4-Bromofluorobenzene <Surr>	8.370	61447	46.993	ppb	LL
GRO		771313	514.034	ppb	
GRO/Surr		988019	658.456	ppb	

SGS Environmental Services Inc.

Sample Name: CCV2

Date/Time: 8/31/2006 8:42:46 PM

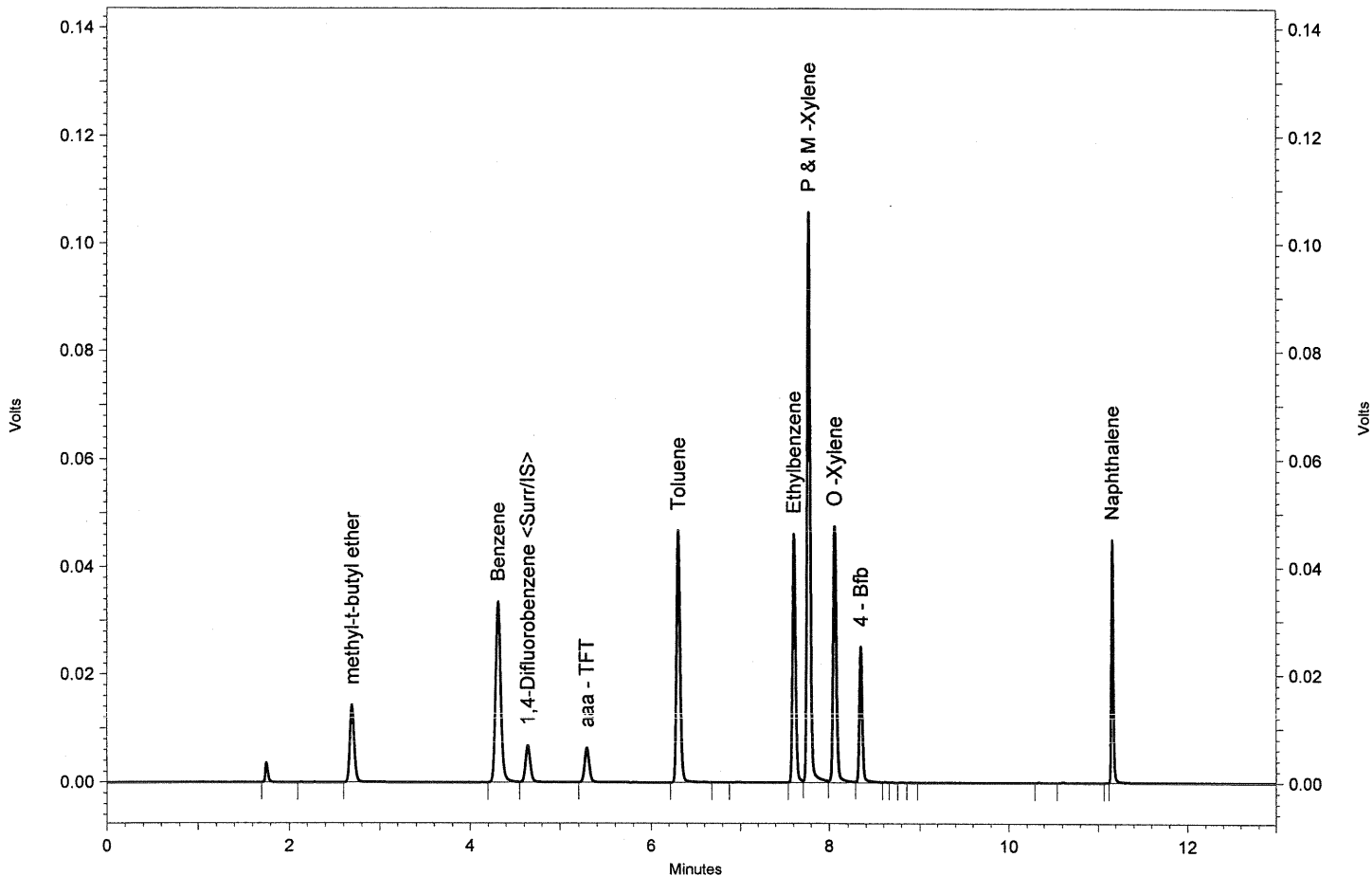
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_027.dat

PID



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.693	48658	97.437	ppb	BB
Benzene	4.310	141640	101.868	ppb	BV
1,4-Difluorobenzene <Surr/IS>	4.640	25676	49.436	ppb	VB
aaa - TFT	5.290	22579	0.000	ppb	BB
Toluene	6.303	130510	102.224	ppb	BV
Ethylbenzene	7.607	113384	103.930	ppb	BV
P & M -Xylene	7.777	270897	209.926	ppb	VV
O -Xylene	8.060	118060	102.240	ppb	VV
4 - Bfb	8.343	59638	47.246	ppb	VV
Naphthalene	11.160	74202	126.982	ppb	SB

SGS Environmental Services Inc.

Sample Name: CCV2

Date/Time: 8/31/2006 8:42:46 PM

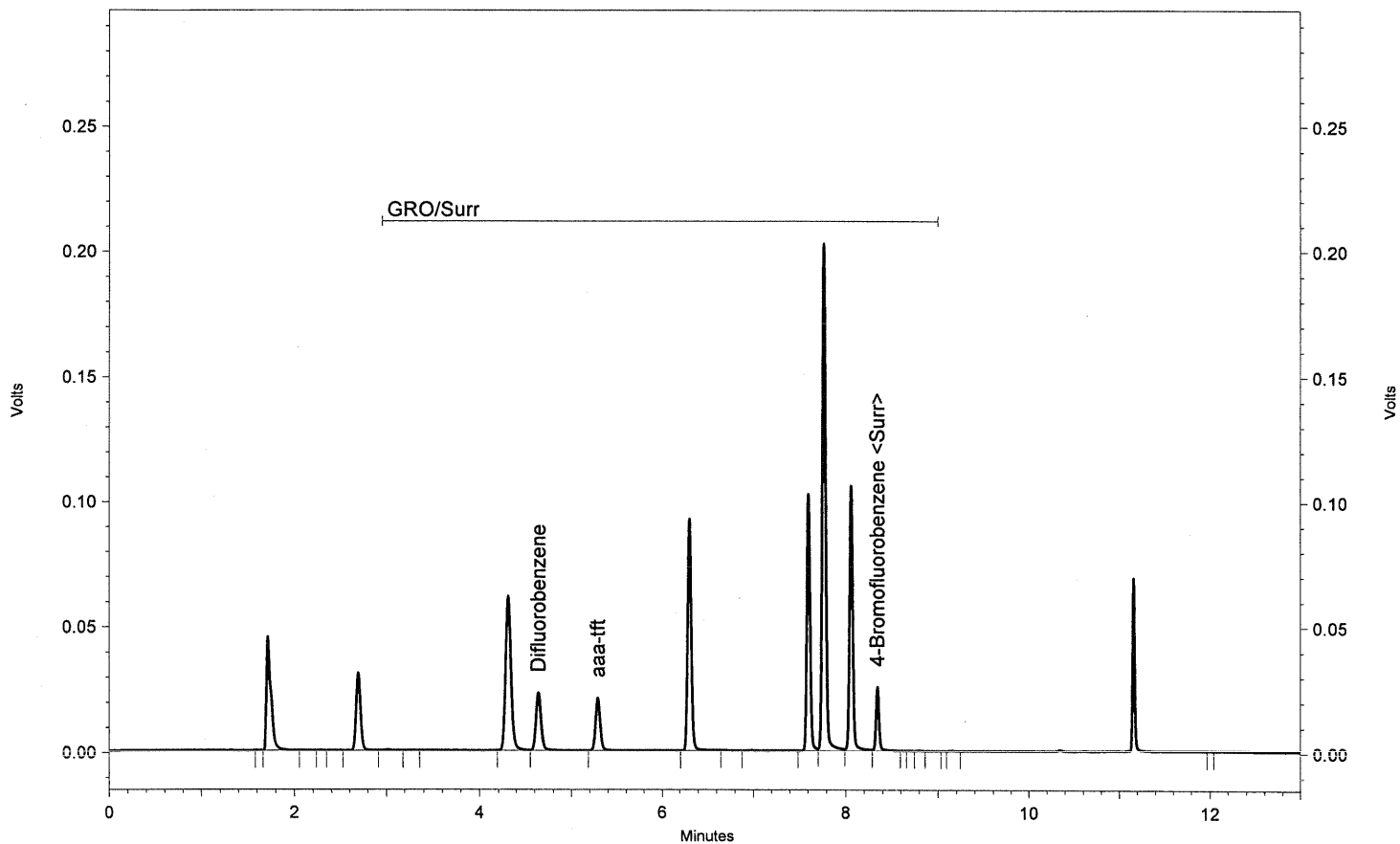
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_027.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.640	88175	49.839	ppb	LL
aaa-tft	5.290	75132	50.759	ppb	LL
4-Bromofluorobenzene <Surr>	8.343	62568	47.850	ppb	LL
GRO		1556943	1037.609	ppb	
GRO/Surr		1782818	1188.141	ppb	

SGS Environmental Services Inc.

Sample Name: CCV

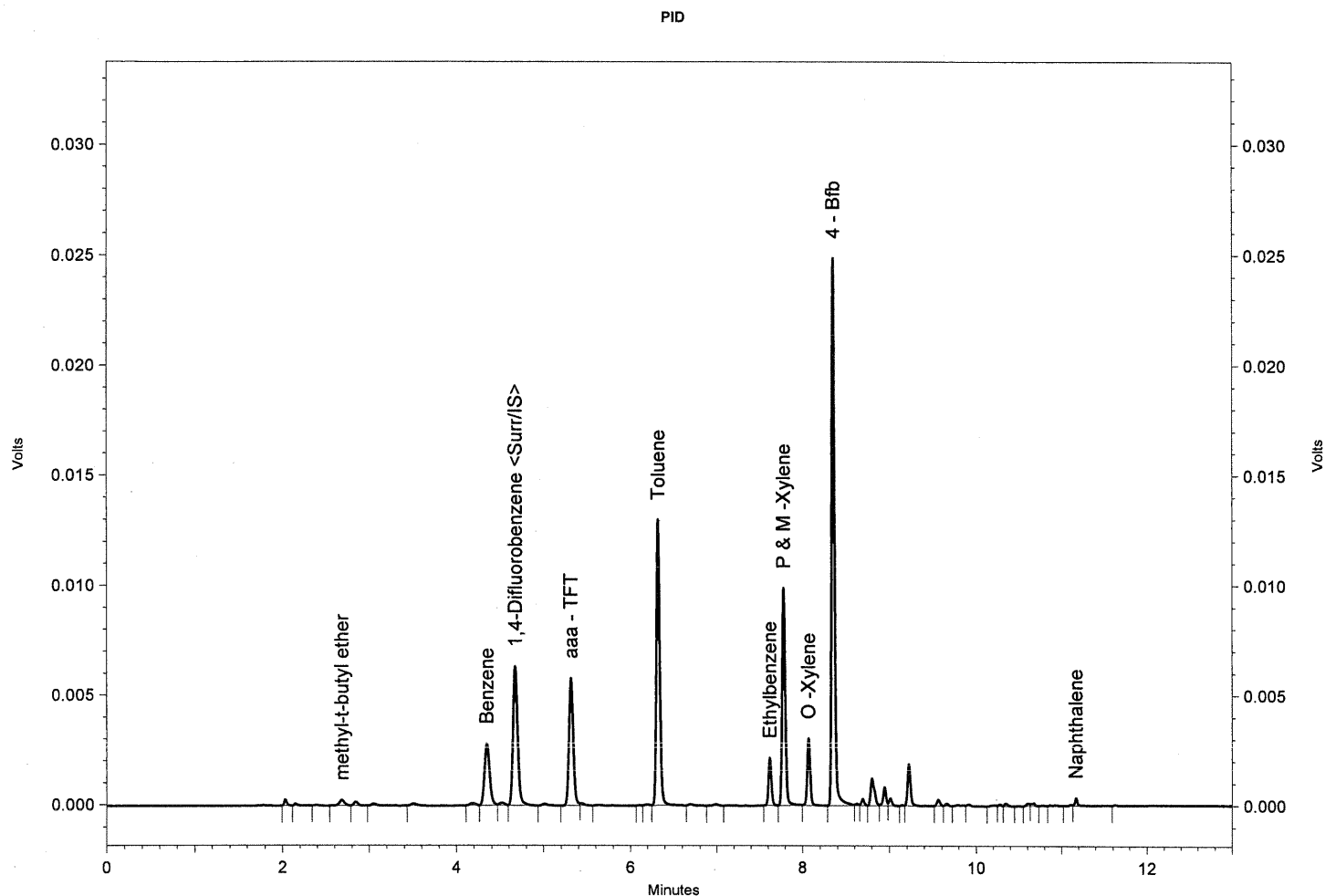
Date/Time: 8/31/2006 9:21:35 PM

Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_029.dat



PID Detector

PID Results

Name	R.T.	Area	Concentration	Units	Codes
methyl-t-butyl ether	2.680	1107	2.477	ppb	BV
Benzene	4.343	11616	9.334	ppb	VV
1,4-Difluorobenzene <Surr/IS>	4.673	23684	50.946	ppb	VV
aaa - TFT	5.313	20210	0.000	ppb	BS
Toluene	6.323	35838	31.361	ppb	VB
Ethylbenzene	7.620	5273	5.400	ppb	BB
P & M -Xylene	7.783	24952	21.603	ppb	BV
O -Xylene	8.070	7392	7.152	ppb	VB
4 - Bfb	8.353	57860	51.210	ppb	BV
Naphthalene	11.170	742	1.419 LC	ppb	SB

SGS Environmental Services Inc.

Sample Name: CCV

Date/Time: 8/31/2006 9:21:35 PM

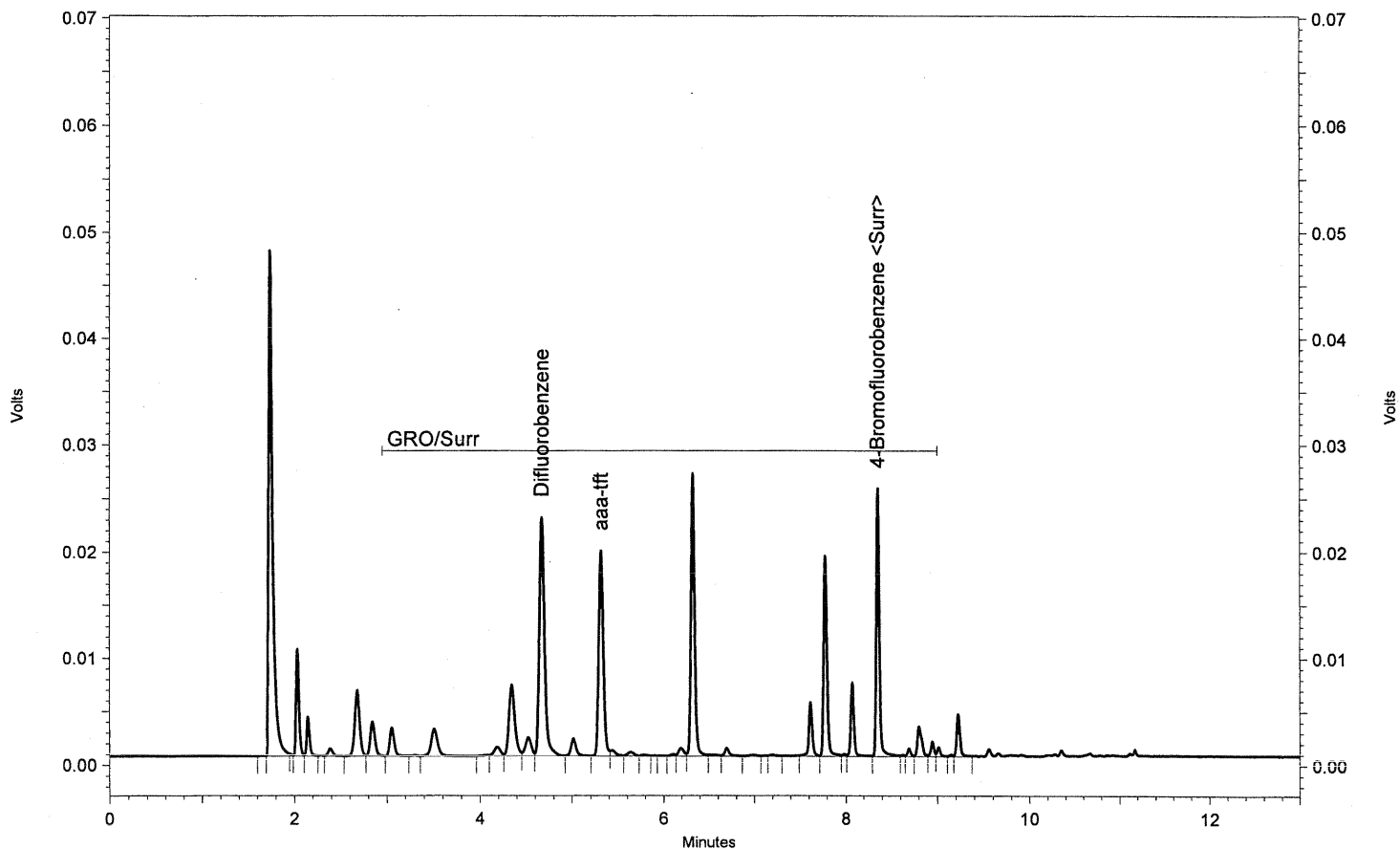
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\08\VCA\METHOD\VCA082106.met

Sample File: E:\Public\2006\08\VCA\data\083106\VCA08210831_029.dat

FID



FID Detector

FID Results

Name	R.T.	Area	Amount	Units	Codes
Difluorobenzene	4.673	86300	48.779	ppb	LL
aaa-tft	5.313	67682	45.726	ppb	LL
4-Bromofluorobenzene <Surr>	8.353	59347	45.387	ppb	LL
GRO		260125	173.358	ppb	
GRO/Surr		473454	315.529	ppb	

Section 5.1

Section Contents:

SGS Work Order: 1064875

Section : 5 8270SIM

Semivolatile Organic Compounds by GC/MS SIM

Extraction Batch XXX17166

Analytical Batch: XMS3757

	<u>HSN</u>	<u>Client ID</u>
Batch Summary Page		
Tune, IS summary and CCAL		
Client Sample	1064875001	06GAM05GS17
Client Sample	1064875003	06GAM05GS19
Client Sample	1064875004	06GAM05GS21
Client Sample	1064875005	06GAM05GS22
Client Sample	1064875006	06GAM05GS23
Client Sample	1064875007	06GAM05GS24
Client Sample	1064875008	06GAM05GS25
Laboratory Control Sample	722010	
Laboratory Control Sample Duplicate	722011	
Instrument Blank	724002	
Calibration Check Sample	724003	
Horizon Run Log		
Instrument Run Log		
Extraction Log		

Analytical Batch: XMS3759

	<u>HSN</u>	<u>Client ID</u>
Batch Summary Page		
Tune, IS summary and CCAL		
Method Blank	722009	
Instrument Blank	724125	
Calibration Check Sample	724126	
Horizon Run Log		
Instrument Run Log		
Extraction Log		

* Reanalysis

SGS Environmental, Inc.

Analytical Quality Control Summary Data

Work Order(s): III
 1064864, 1064875, 1064948

Queue: XMS Batch: 3757

Method: 8270C SIMS

Run Date: 08/29/06 11:25 - 08/29/06 23:29

Extraction Batch(es): XXX17166, XXX17190

QC Parameter	Goals Met?		
Calibration:	(Y)	N	N/A
Instrument/Method Blank:	(Y)	N	N/A
Initial/Continuing Calibration Verifications:	Y	(N)	N/A
Laboratory Control Sample:	(Y)	N	N/A
Laboratory Control Sample Duplicate:	(Y)	N	N/A
Relative Percent Difference:	(Y)	N	N/A
Sample Duplicate:	Y	N	(N/A)
Matrix Spike:	Y	N	(N/A)
Matrix Spike Duplicate:	Y	N	(N/A)
Relative Percent Difference:	Y	N	(N/A)
Surrogates:	(Y)	N	N/A
Sample Holding Time:	(Y)	N	N/A
Internal Standards	(Y)	N	N/A
GCMS Tuner/DDT Sample	(Y)	N	N/A

See case narrative/sample comments for further information :

Additional Notes:

Report of Lost Batch

Is there any further action necessary for any out of control events described above? Y (N)

Should a Corrective Action be initiated? Y (N)

I certify that except as specifically noted in this report, all statements and data appearing in this report are in conformance with the provisions of the Quality Assurance Plan (QAP) prepared by this firm and on file with the Alaska Department of Environmental Conservation.

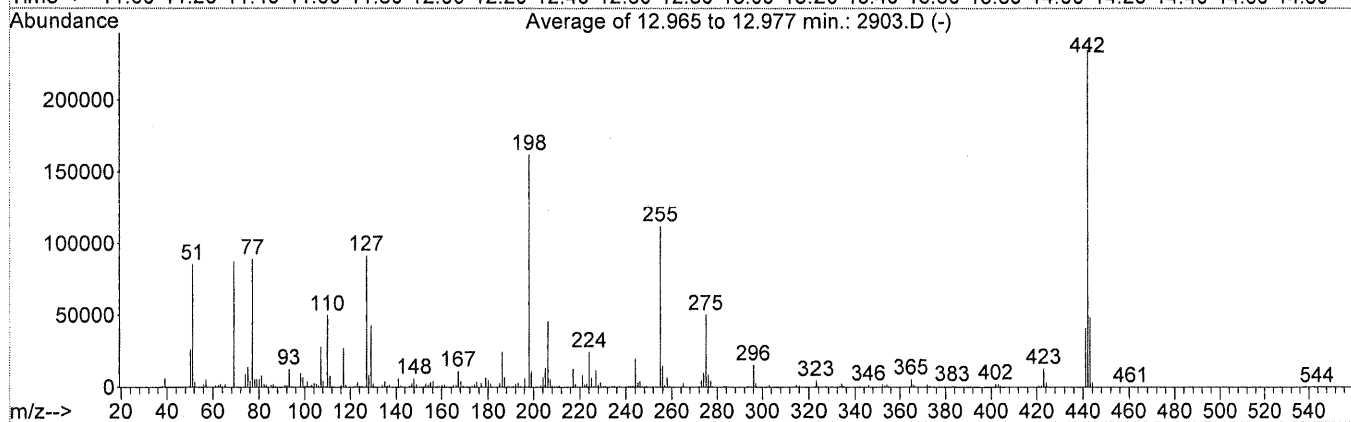
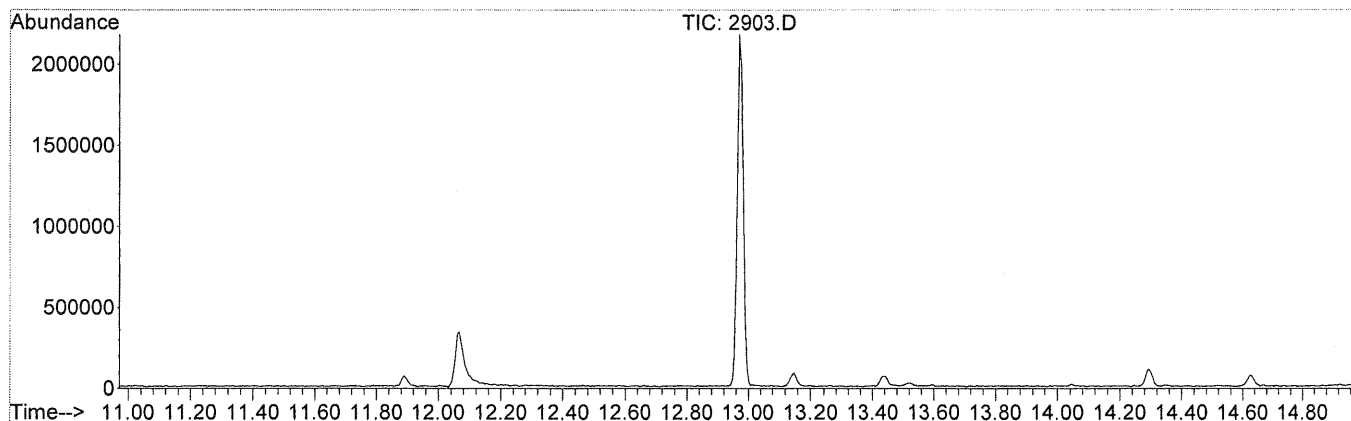
Analyst's Signature: [Signature]
 Date: 9/29/06

Reviewer's Signature: [Signature]
 Date: 9-29-06

Data Path : F:\PUBLIC\2006\08\SQA\DATA\082906\
 Data File : 2903.D
 Acq On : 29 Aug 2006 11:57
 Operator : KWM
 Sample : TUNER
 Misc : [SQA]
 ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Title : SGS 8270C SIM
 Last Update : Tue Aug 29 15:40:07 2006



Spectrum Information: Average of 12.965 to 12.977 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	52.8	85568	PASS
68	69	0.00	2	0.6	542	PASS
69	442	0.00	100	37.3	87581	PASS
70	69	0.00	2	0.9	790	PASS
127	198	10	80	56.5	91605	PASS
197	198	0.00	2	0.3	434	PASS
198	442	50	100	69.0	162096	PASS
199	198	5	9	7.0	11379	PASS
275	442	10	60	21.5	50410	PASS
365	442	1	100	2.4	5603	PASS
441	443	0.01	100	84.6	41200	PASS
442	442	100	100	100.0	234837	PASS
443	442	15	24	20.7	48685	PASS

Tune File : F:\PUBLIC\2006\08\SQA\DATA\082906\2903.D

Tune Time : 29 Aug 2006 11:57

Daily Calibration File : F:\Public\2006\08\SQA\Data\082806\2804.D

File	Sample	Surrogate Recovery %	28042	24364
Internal Standard Responses				
2902.D (fails)	IB	105	30815	23432
2904.D	CCV	88	25758	24735
2905.D	726011 LCS	84	18327	15983
2906.D	726012 LCS	81	17550	15193
2907.D	726010 MB	66	17711	12662
2908.D	722010 LCS	68	18515	15170
2909.D	722011 LCS	65	17710	15493
2910.D	722009 MB	75	17660	12141*
2911.D	1064948001	65	18483	14595
2912.D	1064948002	64	18546	14581
2913.D	1064661001	91	18653	15456
2914.D	1064661002	86	18085	14435
2915.D	1064988001	10	19540	21096
2916.D	1064864001	65	18928	16911
2917.D	1064864002	58	17607	15386
2918.D	1064875001	67	20499	15637
2919.D	1064875003	69	17498	16014
2920.D	1064875004	79	17135	15651
2921.D	1064875005	102	19006	16829

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2922.D          1064875006    78                18821    14348
-----
2923.D          1064875007    68                18791    14716
-----
2924.D          1064875008    76                18489    14284
-----
2925.D
(fails) 1064814001    7                19413    20464
-----
2926.D
(fails) BK          70                18480    14773
-----
(fails) - fails 12hr time check * - fails criteria

```

Created: Fri Sep 29 14:48:35 2006 SQA-MS

Data Path : F:\PUBLIC\2006\08\SQA\DATA\082906\
 Data File : 2904.D
 Acq On : 29 Aug 2006 12:22
 Operator : KWM
 Sample : CCV
 Misc : [SQA]
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 30 15:02:16 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Tue Aug 29 15:40:07 2006
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Acenaphthene-d10	500.000	500.000	0.0	92	-0.03
2	Naphthalene	500.000	544.133	-8.8	97	-0.04
3	2-Methylnaphthalene	500.000	535.755	-7.2	94	-0.04
4	1-Methylnaphthalene	500.000	473.965	5.2	87	-0.12
5	2,6-Dimethylnaphthalene	500.000	531.850	-6.4	96	-0.11
6	1,6,7-Trimethylnaphthalene	500.000	509.044	-1.8	90	-0.10
7	Biphenyl	500.000	508.440	-1.7	90	-0.11
8	Acenaphthylene	500.000	534.361	-6.9	96	-0.04
9	Acenaphthene	500.000	519.558	-3.9	94	-0.03
10	Fluorene	500.000	531.964	-6.4	94	-0.04
11	Phenanthrene	500.000	550.756	-10.2	94	-0.02
12	Anthracene	500.000	550.461	-10.1	94	0.00
13	1-methylphenanthrene	500.000	546.082	-9.2	95	-0.07
14 I	Chrysene-d12	500.000	500.000	0.0	102	-0.04
15	Fluoranthene	500.000	471.615	5.7	95	-0.03
16	Pyrene	500.000	474.672	5.1	96	-0.02
17 S	Terphenyl-d14	500.000	440.428	11.9	93	-0.06
18	Benzo(a)anthracene	500.000	533.756	-6.8	102	-0.03
19	Chrysene	500.000	500.037	-0.0	99	-0.03
20	Benzo[b]fluoranthene	500.000	604.920	-21.0#	118	-0.04
21	Benzo[k]fluoranthene	500.000	444.007	11.2	88	-0.01
22	Benzo(e)pyrene	500.000	539.394	-7.9	108	-0.04
23	Benzo[a]pyrene	500.000	515.811	-3.2	95	0.00
24	Indeno[1,2,3-c,d]pyrene	500.000	474.532	5.1	97	-0.05
25	Dibenzo[a,h]anthracene	500.000	463.168	7.4	94	-0.05
26	Benzo[g,h,i]perylene	500.000	486.310	2.7	100	-0.05

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : F:\PUBLIC\2006\08\SQA\DATA\082906\
 Data File : 2904.D
 Acq On : 29 Aug 2006 12:22
 Operator : KWM
 Sample : CCV
 Misc : [SQA]
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 30 15:02:16 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Tue Aug 29 15:40:07 2006
 Response via : Initial 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	Acenaphthene-d10	1.000	1.000	0.0	92	-0.03
2	Naphthalene	4.691	5.105	-8.8	97	-0.04
3	2-Methylnaphthalene	2.913	3.121	-7.1	94	-0.04
4	1-Methylnaphthalene	2.684	2.544	5.2	87	-0.12
5	2,6-Dimethylnaphthalene	2.025	2.154	-6.4	96	-0.11
6	1,6,7-Trimethylnaphthalene	1.507	1.534	-1.8	90	-0.10
7	Biphenyl	3.042	3.093	-1.7	90	-0.11
8	Acenaphthylene	4.325	4.623	-6.9	96	-0.04
9	Acenaphthene	2.326	2.417	-3.9	94	-0.03
10	Fluorene	2.578	2.743	-6.4	94	-0.04
11	Phenanthrene	3.249	3.579	-10.2	94	-0.02
12	Anthracene	3.025	3.330	-10.1	94	0.00
13	1-methylphenanthrene	2.061	2.251	-9.2	95	-0.07
14 I	Chrysene-d12	1.000	1.000	0.0	102	-0.04
15	Fluoranthene	3.935	3.712	5.7	95	-0.03
16	Pyrene	4.070	3.863	5.1	96	-0.02
17 S	Terphenyl-d14	1.188	1.047	11.9	93	-0.06
18	Benzo(a)anthracene	2.018	2.154	-6.7	102	-0.03
19	Chrysene	2.345	2.345	0.0	99	-0.03
20	Benzo[b]fluoranthene	1.996	2.415	-21.0#	118	-0.04
21	Benzo[k]fluoranthene	2.279	2.024	11.2	88	-0.01
22	Benzo(e)pyrene	1.990	2.147	-7.9	108	-0.04
23	Benzo[a]pyrene	1.474	1.521	-3.2	95	0.00
24	Indeno[1,2,3-c,d]pyrene	2.192	2.081	5.1	97	-0.05
25	Dibenzo[a,h]anthracene	1.622	1.502	7.4	94	-0.05
26	Benzo[g,h,i]perylene	1.903	1.851	2.7	100	-0.05

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

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Project Name: 56016 Gambell FUDS	Analysis: Semivolatile Organic Compounds by GC/MS SIM
Project No: 05-013	Method: 8270SIM
	Prep Meth: SW3510C

Field ID: 06GAM05GS17	Lab Samp ID: 1064875001
Descr/Location: PWS	Rec'd Date: 08/21/2006
Sample Date: 08/17/2006	Prep Date: 08/23/2006
Sample Time: 1335	Analysis Date: 08/29/2006
Matrix: Groundwater	QC Batch: XXX17166
Basis: Not Filtered	Notes:

Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Acenaphthene	0.0150	0.0500 PQL		ND	UG/L	1
Acenaphthylene	0.0150	0.0500 PQL		ND	UG/L	1
Anthracene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(a)anthracene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(a)pyrene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(b)fluoranthene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(g,h,i)perylene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(k)fluoranthene	0.0150	0.0500 PQL		ND	UG/L	1
Chrysene	0.0150	0.0500 PQL		ND	UG/L	1
Dibenzo(a,h)anthracene	0.0150	0.0500 PQL		ND	UG/L	1
Fluorene	0.0150	0.0500 PQL		ND	UG/L	1
Fluoranthene	0.0150	0.0500 PQL		ND	UG/L	1
Indeno(1,2,3-cd)pyrene	0.0150	0.0500 PQL		ND	UG/L	1
1-Methylnaphthalene	0.0310	0.100 PQL		ND	UG/L	1
2-Methylnaphthalene	0.0150	0.0500 PQL		ND	UG/L	1
Naphthalene	0.0310	0.100 PQL		ND	UG/L	1
Phenanthrene	0.0310	0.100 PQL		ND	UG/L	1
Pyrene	0.0150	0.0500 PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
Terphenyl-d14		50-120 SLSA		66.7%		1

Approved by: _____

Date: _____ 447

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Project Name: 56016 Gambell FUDS	Analysis: Semivolatile Organic Compounds by GC/MS SIM
Project No: 05-013	Method: 8270SIM
	Prep Meth: SW3510C

Field ID: 06GAM05GS19	Lab Samp ID: 1064875003
Descr/Location: MW-30	Rec'd Date: 08/21/2006
Sample Date: 08/16/2006	Prep Date: 08/23/2006
Sample Time: 1230	Analysis Date: 08/29/2006
Matrix: Groundwater	QC Batch: XXX17166
Basis: Not Filtered	Notes:

Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Acenaphthene	0.0150	0.0500 PQL		ND	UG/L	1
Acenaphthylene	0.0150	0.0500 PQL		ND	UG/L	1
Anthracene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(a)anthracene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(a)pyrene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(b)fluoranthene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(g,h,i)perylene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(k)fluoranthene	0.0150	0.0500 PQL		ND	UG/L	1
Chrysene	0.0150	0.0500 PQL		ND	UG/L	1
Dibenzo(a,h)anthracene	0.0150	0.0500 PQL		ND	UG/L	1
Fluorene	0.0150	0.0500 PQL		ND	UG/L	1
Fluoranthene	0.0150	0.0500 PQL		ND	UG/L	1
Indeno(1,2,3-cd)pyrene	0.0150	0.0500 PQL		ND	UG/L	1
1-Methylnaphthalene	0.0310	0.100 PQL		ND	UG/L	1
2-Methylnaphthalene	0.0150	0.0500 PQL		ND	UG/L	1
Naphthalene	0.0310	0.100 PQL		ND	UG/L	1
Phenanthrene	0.0310	0.100 PQL		ND	UG/L	1
Pyrene	0.0150	0.0500 PQL		ND	UG/L	1

SURROGATE AND INTERNAL STANDARD RECOVERIES:						
Terphenyl-d14		50-120	SLSA		68.5%	1

Approved by: _____

Date: _____

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Project Name: 56016 Gambell FUDS		Analysis: Semivolatile Organic Compounds by GC/MS SIM				
Project No: 05-013		Method: 8270SIM				
		Prep Meth: SW3510C				
Field ID: 06GAM05GS21		Lab Samp ID: 1064875004				
Descr/Location: MW-30		Rec'd Date: 08/21/2006				
Sample Date: 08/16/2006		Prep Date: 08/23/2006				
Sample Time: 1150		Analysis Date: 08/29/2006				
Matrix: Groundwater		QC Batch: XXX17166				
Basis: Not Filtered		Notes:				
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Acenaphthene	0.0150	0.0500 PQL		ND	UG/L	1
Acenaphthylene	0.0150	0.0500 PQL		ND	UG/L	1
Anthracene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(a)anthracene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(a)pyrene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(b)fluoranthene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(g,h,i)perylene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(k)fluoranthene	0.0150	0.0500 PQL		ND	UG/L	1
Chrysene	0.0150	0.0500 PQL		ND	UG/L	1
Dibenzo(a,h)anthracene	0.0150	0.0500 PQL		ND	UG/L	1
Fluorene	0.0150	0.0500 PQL		ND	UG/L	1
Fluoranthene	0.0150	0.0500 PQL		ND	UG/L	1
Indeno(1,2,3-cd)pyrene	0.0150	0.0500 PQL		ND	UG/L	1
1-Methylnaphthalene	0.0310	0.100 PQL		ND	UG/L	1
2-Methylnaphthalene	0.0150	0.0500 PQL		ND	UG/L	1
Naphthalene	0.0310	0.100 PQL		ND	UG/L	1
Phenanthrene	0.0310	0.100 PQL		ND	UG/L	1
Pyrene	0.0150	0.0500 PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
Terphenyl-d14		50-120 SLSA		79.0%		1

Approved by: _____

Date: _____

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Project Name: 56016 Gambell FUDS	Analysis: Semivolatile Organic Compounds by GC/MS SIM
Project No: 05-013	Method: 8270SIM
	Prep Meth: SW3510C

Field ID: 06GAM05GS22	Lab Samp ID: 1064875005
Descr/Location: MW-14	Rec'd Date: 08/21/2006
Sample Date: 08/16/2006	Prep Date: 08/23/2006
Sample Time: 1445	Analysis Date: 08/29/2006
Matrix: Groundwater	QC Batch: XXX17166
Basis: Not Filtered	Notes:

Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Acenaphthene	0.0150	0.0500 PQL		ND	UG/L	1
Acenaphthylene	0.0150	0.0500 PQL		ND	UG/L	1
Anthracene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(a)anthracene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(a)pyrene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(b)fluoranthene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(g,h,i)perylene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(k)fluoranthene	0.0150	0.0500 PQL		ND	UG/L	1
Chrysene	0.0150	0.0500 PQL		ND	UG/L	1
Dibenzo(a,h)anthracene	0.0150	0.0500 PQL		ND	UG/L	1
Fluorene	0.0150	0.0500 PQL		ND	UG/L	1
Fluoranthene	0.0150	0.0500 PQL		ND	UG/L	1
Indeno(1,2,3-cd)pyrene	0.0150	0.0500 PQL		ND	UG/L	1
1-Methylnaphthalene	0.0310	0.100 PQL		ND	UG/L	1
2-Methylnaphthalene	0.0150	0.0500 PQL		ND	UG/L	1
Naphthalene	0.0310	0.100 PQL		ND	UG/L	1
Phenanthrene	0.0310	0.100 PQL		ND	UG/L	1
Pyrene	0.0150	0.0500 PQL		ND	UG/L	1

SURROGATE AND INTERNAL STANDARD RECOVERIES:						
Terphenyl-d14		50-120	SLSA		102%	1

Approved by: _____

Date: _____ 450

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Project Name: 56016 Gambell FUDS	Analysis: Semivolatile Organic Compounds by GC/MS SIM
Project No: 05-013	Method: 8270SIM
	Prep Meth: SW3510C

Field ID: 06GAM05GS23	Lab Samp ID: 1064875006
Descr/Location: MW-15	Rec'd Date: 08/21/2006
Sample Date: 08/16/2006	Prep Date: 08/23/2006
Sample Time: 1550	Analysis Date: 08/29/2006
Matrix: Groundwater	QC Batch: XXX17166
Basis: Not Filtered	Notes:

Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Acenaphthene	0.0150	0.0500 PQL		ND	UG/L	1
Acenaphthylene	0.0150	0.0500 PQL		ND	UG/L	1
Anthracene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(a)anthracene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(a)pyrene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(b)fluoranthene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(g,h,i)perylene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(k)fluoranthene	0.0150	0.0500 PQL		ND	UG/L	1
Chrysene	0.0150	0.0500 PQL		ND	UG/L	1
Dibenzo(a,h)anthracene	0.0150	0.0500 PQL		ND	UG/L	1
Fluorene	0.0150	0.0500 PQL		ND	UG/L	1
Fluoranthene	0.0150	0.0500 PQL		ND	UG/L	1
Indeno(1,2,3-cd)pyrene	0.0150	0.0500 PQL		ND	UG/L	1
1-Methylnaphthalene	0.0310	0.100 PQL		ND	UG/L	1
2-Methylnaphthalene	0.0150	0.0500 PQL		ND	UG/L	1
Naphthalene	0.0310	0.100 PQL		ND	UG/L	1
Phenanthrene	0.0310	0.100 PQL		ND	UG/L	1
Pyrene	0.0150	0.0500 PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
Terphenyl-d14		50-120 SLSA		77.9%		1

Approved by: _____

Date: _____

Lab Report No.: 1064875 Date: 09/20/2006

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Project Name: 56016 Gambell FUDS	Analysis: Semivolatile Organic Compounds by GC/MS SIM
Project No: 05-013	Method: 8270SIM
	Prep Meth: SW3510C

Field ID: 06GAM05GS24	Lab Samp ID: 1064875007
Descr/Location: MW-32	Rec'd Date: 08/21/2006
Sample Date: 08/16/2006	Prep Date: 08/23/2006
Sample Time: 1700	Analysis Date: 08/29/2006
Matrix: Groundwater	QC Batch: XXX17166
Basis: Not Filtered	Notes:

Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Acenaphthene	0.0150	0.0500 PQL		ND	UG/L	1
Acenaphthylene	0.0150	0.0500 PQL		ND	UG/L	1
Anthracene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(a)anthracene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(a)pyrene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(b)fluoranthene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(g,h,i)perylene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(k)fluoranthene	0.0150	0.0500 PQL		ND	UG/L	1
Chrysene	0.0150	0.0500 PQL		ND	UG/L	1
Dibenzo(a,h)anthracene	0.0150	0.0500 PQL		ND	UG/L	1
Fluorene	0.0150	0.0500 PQL		ND	UG/L	1
Fluoranthene	0.0150	0.0500 PQL		ND	UG/L	1
Indeno(1,2,3-cd)pyrene	0.0150	0.0500 PQL		ND	UG/L	1
1-Methylnaphthalene	0.0310	0.100 PQL		ND	UG/L	1
2-Methylnaphthalene	0.0150	0.0500 PQL		ND	UG/L	1
Naphthalene	0.0310	0.100 PQL		ND	UG/L	1
Phenanthrene	0.0310	0.100 PQL		ND	UG/L	1
Pyrene	0.0150	0.0500 PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
Terphenyl-d14		50-120 SLSA		68.0%		1

Approved by: _____

Date: _____

Lab Report No.: 1064875 Date: 09/20/2006

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Project Name: 56016 Gambell FUDS	Analysis: Semivolatile Organic Compounds by GC/MS SIM
Project No: 05-013	Method: 8270SIM
	Prep Meth: SW3510C

Field ID: 06GAM05GS25	Lab Samp ID: 1064875008
Descr/Location: MW-29	Rec'd Date: 08/21/2006
Sample Date: 08/16/2006	Prep Date: 08/23/2006
Sample Time: 1830	Analysis Date: 08/29/2006
Matrix: Groundwater	QC Batch: XXX17166
Basis: Not Filtered	Notes:

Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Acenaphthene	0.0150	0.0500 PQL		ND	UG/L	1
Acenaphthylene	0.0150	0.0500 PQL		ND	UG/L	1
Anthracene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(a)anthracene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(a)pyrene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(b)fluoranthene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(g,h,i)perylene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(k)fluoranthene	0.0150	0.0500 PQL		ND	UG/L	1
Chrysene	0.0150	0.0500 PQL		ND	UG/L	1
Dibenzo(a,h)anthracene	0.0150	0.0500 PQL		ND	UG/L	1
Fluorene	0.0150	0.0500 PQL		ND	UG/L	1
Fluoranthene	0.0150	0.0500 PQL		ND	UG/L	1
Indeno(1,2,3-cd)pyrene	0.0150	0.0500 PQL		ND	UG/L	1
1-Methylnaphthalene	0.0310	0.100 PQL		ND	UG/L	1
2-Methylnaphthalene	0.0150	0.0500 PQL		ND	UG/L	1
Naphthalene	0.0310	0.100 PQL		ND	UG/L	1
Phenanthrene	0.0310	0.100 PQL		ND	UG/L	1
Pyrene	0.0150	0.0500 PQL		ND	UG/L	1

SURROGATE AND INTERNAL STANDARD RECOVERIES:						
Terphenyl-d14		50-120	SLSA		75.6%	1

Approved by: _____

Date: _____ 453

QA/QC Report Blank Spike/Duplicate Blank Spike Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 143

QC Batch: XXX17166
Matrix: Water QC
Lab Samp ID: 722010

Analyte	Analysis Method	Spike Level		Spike Result		Units	% Recoveries			Acceptance Criteria		
		LCS	LCD	LCS	LCD		LCS	LCD	RPD	%Rec	RPD	
1-Methylnaphthalene	8270SIM	0.5	0.5	0.303	0.323	UG/L	60.6	64.6	6.4	86-35	LSA	30MEP
2-Methylnaphthalene	8270SIM	0.5	0.5	0.310	0.331	UG/L	62.0	66.2	6.6	89-36	LSA	30MEP
Acenaphthene	8270SIM	0.5	0.5	0.329	0.345	UG/L	65.8	69.0	4.7	87-45	LSA	30MEP
Acenaphthylene	8270SIM	0.5	0.5	0.330	0.350	UG/L	66.0	70.0	5.9	92-43	LSA	30MEP
Anthracene	8270SIM	0.5	0.5	0.316	0.341	UG/L	63.2	68.2	7.6	97-30	LSA	30MEP
Benzo(a)anthracene	8270SIM	0.5	0.5	0.329	0.306	UG/L	65.8	61.2	7.2	136-58	LSA	30MEP
Benzo(a)pyrene	8270SIM	0.5	0.5	0.385	0.366	UG/L	77.0	73.2	5.1	128-31	LSA	30MEP
Benzo(b)fluoranthene	8270SIM	0.5	0.5	0.388	0.354	UG/L	77.6	70.8	9.2	120-45	LSA	30MEP
Benzo(g,h,i)perylene	8270SIM	0.5	0.5	0.342	0.315	UG/L	68.4	63.0	8.2	117-40	LSA	30MEP
Benzo(k)fluoranthene	8270SIM	0.5	0.5	0.334	0.319	UG/L	66.8	63.8	4.6	121-49	LSA	30MEP
Chrysene	8270SIM	0.5	0.5	0.376	0.340	UG/L	75.2	68.0	10	110-55	LSA	30MEP
Dibenzo(a,h)anthracene	8270SIM	0.5	0.5	0.318	0.293	UG/L	63.6	58.6	8.2	120-40	LSA	30MEP
Fluoranthene	8270SIM	0.5	0.5	0.347	0.333	UG/L	69.4	66.6	4.1	105-55	LSA	30MEP
Fluorene	8270SIM	0.5	0.5	0.334	0.347	UG/L	66.8	69.4	3.8	90-40	LSA	30MEP
Indeno(1,2,3-cd)pyrene	8270SIM	0.5	0.5	0.323	0.302	UG/L	64.6	60.4	6.7	122-45	LSA	30MEP
Naphthalene	8270SIM	0.5	0.5	0.347	0.370	UG/L	69.4	74.0	6.4	96-40	LSA	30MEP
Phenanthrene	8270SIM	0.5	0.5	0.364	0.375	UG/L	72.8	75.0	3.0	95-50	LSA	30MEP
Pyrene	8270SIM	0.5	0.5	0.365	0.342	UG/L	73.0	68.4	6.5	105-50	LSA	30MEP
Terphenyl-d14	8270SIM	100.	100.	68.1	64.9	PERCENT	68.1	64.9	4.8	120-50	SLSA	NA

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17166 Matrix: Water QC Lab Samp ID: 724002 Analysis Date: 08/29/2006 Basis: Not Applicable	Analysis: Semivolatile Organic Compounds by GC/MS Method: 8270SIM Prep Meth: NONE Prep Date: 08/29/2006 Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Acenaphthene	50.0	50.0	PQL	ND	UG/L	1
Acenaphthylene	50.0	50.0	PQL	ND	UG/L	1
Anthracene	50.0	50.0	PQL	ND	UG/L	1
Benzo(a)anthracene	50.0	50.0	PQL	ND	UG/L	1
Benzo(a)pyrene	50.0	50.0	PQL	ND	UG/L	1
Benzo(b)fluoranthene	50.0	50.0	PQL	ND	UG/L	1
Benzo(g,h,i)perylene	50.0	50.0	PQL	ND	UG/L	1
Benzo(k)fluoranthene	50.0	50.0	PQL	ND	UG/L	1
Chrysene	50.0	50.0	PQL	ND	UG/L	1
Dibenzo(a,h)anthracene	50.0	50.0	PQL	ND	UG/L	1
Fluorene	50.0	50.0	PQL	ND	UG/L	1
Fluoranthene	50.0	50.0	PQL	ND	UG/L	1
Indeno(1,2,3-cd)pyrene	50.0	50.0	PQL	ND	UG/L	1
1-Methylnaphthalene	100.	100.	PQL	ND	UG/L	1
2-Methylnaphthalene	50.0	50.0	PQL	ND	UG/L	1
Naphthalene	50.0	50.0	PQL	ND	UG/L	1
Phenanthrene	100.	100.	PQL	ND	UG/L	1
Pyrene	50.0	50.0	PQL	ND	UG/L	1

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17166 Matrix: Water QC Lab Samp ID: 724003						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
1-Methylnaphthalene	8270SIM	500.	474.	UG/L	94.8	120-80 MECC
2-Methylnaphthalene	8270SIM	500.	536.	UG/L	107	120-80 MECC
Acenaphthene	8270SIM	500.	520.	UG/L	104	120-80 MECC
Acenaphthylene	8270SIM	500.	534.	UG/L	107	120-80 MECC
Anthracene	8270SIM	500.	550.	UG/L	110	120-80 MECC
Benzo(a)anthracene	8270SIM	500.	534.	UG/L	107	120-80 MECC
Benzo(a)pyrene	8270SIM	500.	516.	UG/L	103	120-80 MECC
Benzo(b)fluoranthene	8270SIM	500.	605.	UG/L	121!	120-80 MECC
Benzo(g,h,i)perylene	8270SIM	500.	486.	UG/L	97.2	120-80 MECC
Benzo(k)fluoranthene	8270SIM	500.	444.	UG/L	88.8	120-80 MECC
Chrysene	8270SIM	500.	500.	UG/L	100	120-80 MECC
Dibenzo(a,h)anthracene	8270SIM	500.	463.	UG/L	92.6	120-80 MECC
Fluoranthene	8270SIM	500.	472.	UG/L	94.4	120-80 MECC
Fluorene	8270SIM	500.	532.	UG/L	106	120-80 MECC
Indeno(1,2,3-cd)pyrene	8270SIM	500.	475.	UG/L	95.0	120-80 MECC
Naphthalene	8270SIM	500.	544.	UG/L	109	120-80 MECC
Phenanthrene	8270SIM	500.	551.	UG/L	110	120-80 MECC
Pyrene	8270SIM	500.	475.	UG/L	95.0	120-80 MECC
Terphenyl-d14	8270SIM	100.	88.1	PERCE	88.1	120-80 SMEA
CI: See narrative						



Horizon Batch #: 17166 / 17167

Extraction Bench Sheet

	ID	Amount	
		Added (ml)	Conc.
Surrogates:	SVW8-73-6	1ml	0.50 µg/ml
Martix Spikes:	SVW 8-74-5	1ml	0.50 µg/ml

Extraction Method: 3510/sim/625

Extraction Start Date/Time: 8/23/06 11:15

Extraction Finish Date/Time: ↓ 1823

Extr. Technician: RM, JS

Reagent Lot #
 Na₂SO₄ PW1-36-10
 Glass/Wool PW1-32-5
 1ml pipette 51958

Spike Witness: RM^S, JDS^W

Posted By / Date: AH 8/23/06

Solvent Lot No. Used: CH₂Cl₂ 45277

TV Temperature: 48°

Batch Released By: SMP

#	Workorder No.	Initial Wt./Vol. (gm/mL)	Final Volume (ml)	shaker speed @150 x3 for 2mins	(pH, sonication level, sample and/or extract description)	Comments
1	Method Blank	1000	1ml		722009	722012 pH=7
2	LCS	↓			↓ 10	↓ 3
3	LCS D	↓			↓ 11	↓ 4
4	4864-1 I	915				
5	-2 I	950				
6	4875-1 J	1000				leaked ~ 10mls sample in 1st shake
7	-3					
8	-4					
9	-5					
10	-6					
11	-7					
12	-8					
13	4814-1 C					
14	4864-1 E	915				
15	-2 I	950				
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

RM 8/23/06

NOTES:

SGS Alaska Division Peer Review Report - Horizon Run Log

Queue: XMS Batch: 3757 Create User: KWM Run Date: 08/29/06 Printed: 29-Sep-06

Project	HSN	Type	Sample ID	CC Bottle Number	Matrix	Inst	Run Date/Time	Bench Dilution	Prep Batch	Seq
	724002	IB		OK	1	SQA	08/29/06 11:25	1		1
	724003	CCV		OK	1	SQA	08/29/06 12:22	1		2
	723011	LCS		OK	1	SQA	08/29/06 13:15	1	17190XXX	3
	723012	LCSD		OK	1	SQA	08/29/06 13:47	1	17190XXX	4
	723010	MB		OK	1	SQA	08/29/06 14:19	1	17190XXX	5
	722010	LCS		OK	1	SQA	08/29/06 14:52	1	17166XXX	6
	722011	LCSD		OK	1	SQA	08/29/06 15:24	1	17166XXX	7
1064948	1064948001	PS	06FRANK01SW	OK 1064948001-I	1	SQA	08/29/06 16:29	1	17190XXX	8
1064948	1064948002	PS	06FRANK02SW	OK 1064948002-I	1	SQA	08/29/06 17:01	1	17190XXX	9
1064864	1064864001	PS	06COST01SW	OK 1064864001-I	1	SQA	08/29/06 19:11	1	17166XXX	10
1064864	1064864002	PS	06COST02SW	OK 1064864002-I	1	SQA	08/29/06 19:43	1	17166XXX	11
1064875	1064875001	PS	06GAM05GS17	OK 1064875001-J	1	SQA	08/29/06 20:16	1	17166XXX	12
1064875	1064875003	PS	06GAM05GS19	OK 1064875003-J	1	SQA	08/29/06 20:48	1	17166XXX	13
1064875	1064875004	PS	06GAM05GS21	OK 1064875004-J	1	SQA	08/29/06 21:20	1	17166XXX	14
1064875	1064875005	PS	06GAM05GS22	OK 1064875005-J	1	SQA	08/29/06 21:52	1	17166XXX	15
1064875	1064875006	PS	06GAM05GS23	OK 1064875006-J	1	SQA	08/29/06 22:25	1	17166XXX	16
1064875	1064875007	PS	06GAM05GS24	OK 1064875007-J	1	SQA	08/29/06 22:57	1	17166XXX	17
1064875	1064875008	PS	06GAM05GS25	OK 1064875008-J	1	SQA	08/29/06 23:29	1	17166XXX	18

Injection Log

Directory: f:\PUBLIC\2006\08\SQA\Data\082906

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	2901.d	1.	IB	[SQA] SVW8-135-7	29 Aug 2006 10:53
2	1	2902.d	1.	IB	[SQA] SVW8-135-7	29 Aug 2006 11:25
3	2	2903.d	1.	TUNER	[SQA]	29 Aug 2006 11:57
4	3	2904.d	1.	CCV	[SQA]	29 Aug 2006 12:22
5	4	2905.d	1.	726011 LCS	[SQA]	29 Aug 2006 13:15
6	5	2906.d	1.	726012 LCSD	[SQA]	29 Aug 2006 13:47
7	6	2907.d	1.	726010 MB	[SQA]	29 Aug 2006 14:19
8	7	2908.d	1.	722010 LCS	[SQA]	29 Aug 2006 14:52
9	8	2909.d	1.	722011 LCSD	[SQA]	29 Aug 2006 15:24
10	9	2910.d	1.	722009 MB	[SQA]	29 Aug 2006 15:56
11	10	2911.d	1.	1064948001I	[SQA]	29 Aug 2006 16:29
12	11	2912.d	1.	1064948002I	[SQA]	29 Aug 2006 17:01
13	12	2913.d	1.	1064661001D	[SQA]	29 Aug 2006 17:33
14	13	2914.d	1.	1064661002D	[SQA]	29 Aug 2006 18:06
15	14	2915.d	10.	1064988001C X10	[SQA]	29 Aug 2006 18:38
16	15	2916.d	1.	1064864001I	[SQA]	29 Aug 2006 19:11
17	16	2917.d	1.	1064864002I	[SQA]	29 Aug 2006 19:43
18	17	2918.d	1.	1064875001J	[SQA]	29 Aug 2006 20:16
19	18	2919.d	1.	1064875003J	[SQA]	29 Aug 2006 20:48
20	19	2920.d	1.	1064875004J	[SQA]	29 Aug 2006 21:20
21	20	2921.d	1.	1064875005J	[SQA]	29 Aug 2006 21:52
22	21	2922.d	1.	1064875006J	[SQA]	29 Aug 2006 22:25
23	22	2923.d	1.	1064875007J	[SQA]	29 Aug 2006 22:57
24	23	2924.d	1.	1064875008J	[SQA]	29 Aug 2006 23:29
25	24	2925.d	10.	1064814001C X10	[SQA]	30 Aug 2006 00:01
26	9	2926.d	1.	BK	[SQA]	30 Aug 2006 00:34

Instrument: SQA Method: PASSIM Run Date: 8/29/06 Calibration Date: 8/28/06

Operator: [Signature] Processed By: [Signature] Posted By: [Signature] Analytical Batch: 3757
3758

Vial	Sample Name	Dilution	Notes: Odor, Color, Dilution Formula	pH	Rerun
1	IB				
1	IB				
2	Tuner				
3	CCV				
4	726011	1	LC5 723011 | 723016		
5	726012	1	LCSD 723012 | 723017		
6	726010	1	MB 723010 | 720315		
7	722010	1	LC5 722013		
8	722011	1	LCSD 722014		
9	722009	1	MB not used low IS 722012		
10	4948-1I	1			
11	↓ -2I	1			
12	4661-1D	1			
13	↓ -2D	1			
14	4988-1C	10	100 µL | 900 µL		
15	4864-1I	1			
16	↓ -2I	1			
17	4875-1S	1			
18	↓ -3J	1			
19	↓ -4J	1			
20	↓ -5J	1			
21	↓ -6J	1			
22	↓ -7J	1			
23	↓ -8J	1			
24	4814-1C	10	Not used out of 12 hour		
29	BLK				

Standards: IS: SUW8-99-2 MeCr: 46121
Tuner: SUW8-88-2
CCV: SUW8-135-4

SGS Environmental, Inc.

Analytical Quality Control Summary Data

Work Order(s):
1064821, 1064901, 1064903

Queue: XMS Batch: 3759

Method: 8270C SIMS

Run Date: 08/30/06 11:36 - 08/30/06 23:17

Extraction Batch(es): XXX17166, XXX17183

QC Parameter	Goals Met?		
Calibration:	(Y)	N	N/A
Instrument/Method Blank:	(Y)	N	N/A
Initial/Continuing Calibration Verifications:	(Y)	N	N/A
Laboratory Control Sample:	(Y)	N	N/A
Laboratory Control Sample Duplicate:	(X)	N	(N/A)
Relative Percent Difference:	(Y)	N	(N/A)
Sample Duplicate:	(Y)	N	(N/A)
Matrix Spike:	(Y)	(N)	N/A
Matrix Spike Duplicate:	(Y)	(N)	N/A
Relative Percent Difference:	(Y)	N	N/A
Surrogates:	(Y)	N	N/A
Sample Holding Time:	(Y)	N	N/A
Internal Standards	(Y)	N	N/A
GCMS Tuner/DDT Sample	(Y)	N	N/A

See case narrative/sample comments for further information : ✓

Additional Notes:

Is there any further action necessary for any out of control events described above? Y (N)

Should a Corrective Action be initiated? Y (N)

I certify that except as specifically noted in this report, all statements and data appearing in this report are in conformance with the provisions of the Quality Assurance Plan (QAP) prepared by this firm and on file with the Alaska Department of Environmental Conservation.

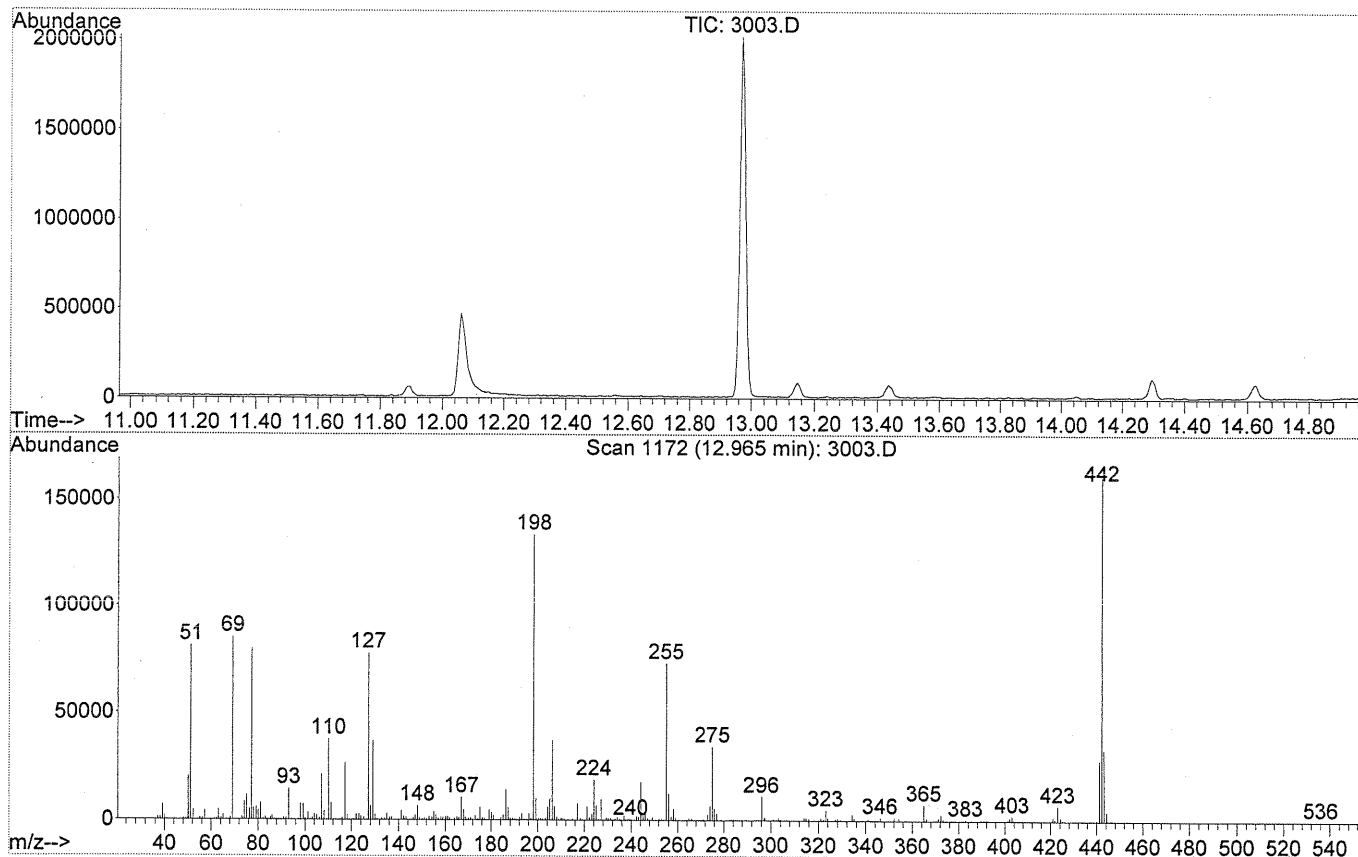
Analyst's Signature: [Signature]
Date: 8/31/06

Reviewer's Signature: [Signature]
Date: 8-31-06

Data Path : F:\PUBLIC\2006\08\SQA\DATA\083006\
 Data File : 3003.D
 Acq On : 30 Aug 2006 12:08
 Operator : KWM
 Sample : TUNER
 Misc : [SQA]
 ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Title : SGS 8270C SIM
 Last Update : Tue Aug 29 15:40:07 2006



Spectrum Information: Scan 1172

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	60.8	81208	PASS
68	69	0.00	2	1.2	1053	PASS
69	442	0.00	100	52.9	85200	PASS
70	69	0.00	2	0.4	350	PASS
127	198	10	80	58.1	77664	PASS
197	198	0.00	2	0.7	947	PASS
198	442	50	100	83.0	133632	PASS
199	198	5	9	7.5	10011	PASS
275	442	10	60	21.3	34328	PASS
365	442	1	100	4.6	7358	PASS
441	443	0.01	100	85.0	28152	PASS
442	442	100	100	100.0	161024	PASS
443	442	15	24	20.6	33136	PASS

GC/MS QA-QC Check Report

Tune File : F:\PUBLIC\2006\08\SQA\DATA\083006\3003.D
 Tune Time : 30 Aug 2006 12:08

Daily Calibration File : F:\Public\2006\08\SQA\Data\082806\2804.D

File	Sample	Surrogate Recovery %	28042	24364
			Internal	Standard Responses
3002.D (fails)	IB	102	23263	19012
3004.D	CCV	86	23092	22971
3005.D	722669 LCS	85	16947	15938
3006.D	722668 MB	91	16242	13509
3007.D	1064821004	85	17052	20926
3008.D	1064821006	98	16784	16873
3009.D	1064821007	89	17889	18990
3010.D	1064821008	86	18810	20654
3011.D	1064821009	93	18515	19042
3012.D	1064821010	85	18639	20110
3013.D	1064901002	104	5463*	33768
3014.D	1064903001	77	26250	25425
3015.D	1064903002	69	25781	27009
3016.D	1064903003	85	22047	23547
3017.D	1064903004	95	24450	19827
3018.D	1064903005	100	24252	19535
3019.D	1064903006	95	24573	19761
3020.D	1064903007	101	20742	18929
3021.D	1064903008	92	19625	17952

3022.D	1064903009	84		21154	17336
3023.D	1064821005	8		21278	20241
3024.D	MB 17166	72	722009	22563	18625
3025.D	1064814001	7		20671	21382
3026.D (fails)	BK	91		19805	16362

(fails) - fails 12hr time check * - fails criteria

Created: Thu Aug 31 08:27:39 2006 SQA-MS

Evaluate Continuing Calibration Report

Data Path : F:\PUBLIC\2006\08\SQA\DATA\083006\
 Data File : 3004.D
 Acq On : 30 Aug 2006 12:33
 Operator : KWM
 Sample : CCV
 Misc : [SQA]
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 31 08:29:49 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Tue Aug 29 15:40:07 2006
 Response via : Initial 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	Acenaphthene-d10	1.000	1.000	0.0	82	-0.03
2	Naphthalene	4.691	5.246	-11.8	89	-0.04
3	2-Methylnaphthalene	2.913	3.160	-8.5	85	-0.04
4	1-Methylnaphthalene	2.684	2.484	7.5	76	-0.12
5	2,6-Dimethylnaphthalene	2.025	2.158	-6.6	86	-0.11
6	1,6,7-Trimethylnaphthalene	1.507	1.547	-2.7	82	-0.10
7	Biphenyl	3.042	3.071	-1.0	80	-0.11
8	Acenaphthylene	4.325	4.645	-7.4	87	-0.04
9	Acenaphthene	2.326	2.452	-5.4	86	-0.03
10	Fluorene	2.578	2.738	-6.2	84	-0.04
11	Phenanthrene	3.249	3.625	-11.6	85	-0.01
12	Anthracene	3.025	3.474	-14.8	88	0.00
13	1-methylphenanthrene	2.061	2.255	-9.4	86	-0.07
14 I	Chrysene-d12	1.000	1.000	0.0	94	-0.04
15	Fluoranthene	3.935	3.601	8.5	85	-0.03
16	Pyrene	4.070	3.713	8.8	86	-0.01
17 S	Terphenyl-d14	1.188	1.023	13.9	84	-0.05
18	Benzo(a)anthracene	2.018	2.101	-4.1	92	-0.02
19	Chrysene	2.345	2.205	6.0	87	-0.02
20	Benzo[b]fluoranthene	1.996	2.231	-11.8	101	-0.05
21	Benzo[k]fluoranthene	2.279	2.546	-11.7	103	-0.02
22	Benzo(e)pyrene	1.990	2.279	-14.5	107	-0.04
23	Benzo[a]pyrene	1.474	1.538	-4.3	89	0.00
24	Indeno[1,2,3-c,d]pyrene	2.192	2.293	-4.6	100	-0.06
25	Dibenzo[a,h]anthracene	1.622	1.619	0.2	94	-0.05
26	Benzo[g,h,i]perylene	1.903	2.059	-8.2	103	-0.05

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : F:\PUBLIC\2006\08\SQA\DATA\083006\
 Data File : 3004.D
 Acq On : 30 Aug 2006 12:33
 Operator : KWM
 Sample : CCV
 Misc : [SQA]
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 31 08:29:49 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Tue Aug 29 15:40:07 2006
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Acenaphthene-d10	500.000	500.000	0.0	82	-0.03
2	Naphthalene	500.000	559.092	-11.8	89	-0.04
3	2-Methylnaphthalene	500.000	542.314	-8.5	85	-0.04
4	1-Methylnaphthalene	500.000	462.774	7.4	76	-0.12
5	2,6-Dimethylnaphthalene	500.000	532.778	-6.6	86	-0.11
6	1,6,7-Trimethylnaphthalene	500.000	513.104	-2.6	82	-0.10
7	Biphenyl	500.000	504.818	-1.0	80	-0.11
8	Acenaphthylene	500.000	536.997	-7.4	87	-0.04
9	Acenaphthene	500.000	527.086	-5.4	86	-0.03
10	Fluorene	500.000	530.895	-6.2	84	-0.04
11	Phenanthrene	500.000	557.791	-11.6	85	-0.01
12	Anthracene	500.000	574.157	-14.8	88	0.00
13	1-methylphenanthrene	500.000	546.919	-9.4	86	-0.07
14 I	Chrysene-d12	500.000	500.000	0.0	94	-0.04
15	Fluoranthene	500.000	457.470	8.5	85	-0.03
16	Pyrene	500.000	456.213	8.8	86	-0.01
17 S	Terphenyl-d14	500.000	430.653	13.9	84	-0.05
18	Benzo(a)anthracene	500.000	520.576	-4.1	92	-0.02
19	Chrysene	500.000	470.129	6.0	87	-0.02
20	Benzo[b]fluoranthene	500.000	558.699	-11.7	101	-0.05
21	Benzo[k]fluoranthene	500.000	558.602	-11.7	103	-0.02
22	Benzo(e)pyrene	500.000	572.559	-14.5	107	-0.04
23	Benzo[a]pyrene	500.000	521.604	-4.3	89	0.00
24	Indeno[1,2,3-c,d]pyrene	500.000	522.936	-4.6	100	-0.06
25	Dibenzo[a,h]anthracene	500.000	499.192	0.2	94	-0.05
26	Benzo[g,h,i]perylene	500.000	541.029	-8.2	103	-0.05

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 142

QC Batch: XXX17166 Matrix: Water QC Lab Samp ID: 724125 Analysis Date: 08/30/2006 Basis: Not Applicable	Analysis: Semivolatile Organic Compounds by GC/MS Method: 8270SIM Prep Meth: NONE Prep Date: 08/30/2006 Notes:
--	--

Analyte	Det Limit	Rep Limit	PQL	Note	Result	Units	Pvc Dil
Acenaphthene	50.0	50.0	PQL		ND	UG/L	1
Acenaphthylene	50.0	50.0	PQL		ND	UG/L	1
Anthracene	50.0	50.0	PQL		ND	UG/L	1
Benzo(a)anthracene	50.0	50.0	PQL		ND	UG/L	1
Benzo(a)pyrene	50.0	50.0	PQL		ND	UG/L	1
Benzo(b)fluoranthene	50.0	50.0	PQL		ND	UG/L	1
Benzo(g,h,i)perylene	50.0	50.0	PQL		ND	UG/L	1
Benzo(k)fluoranthene	50.0	50.0	PQL		ND	UG/L	1
Chrysene	50.0	50.0	PQL		ND	UG/L	1
Dibenzo(a,h)anthracene	50.0	50.0	PQL		ND	UG/L	1
Fluorene	50.0	50.0	PQL		ND	UG/L	1
Fluoranthene	50.0	50.0	PQL		ND	UG/L	1
Indeno(1,2,3-cd)pyrene	50.0	50.0	PQL		ND	UG/L	1
1-Methylnaphthalene	100.	100.	PQL		ND	UG/L	1
2-Methylnaphthalene	50.0	50.0	PQL		ND	UG/L	1
Naphthalene	50.0	50.0	PQL		ND	UG/L	1
Phenanthrene	100.	100.	PQL		ND	UG/L	1
Pyrene	50.0	50.0	PQL		ND	UG/L	1

QA/QC Report Method Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 140

QC Batch: XXX17166	Analysis: Semivolatile Organic Compounds by GC/MS		
Matrix: Water QC	Method: 8270SIM		
Lab Samp ID: 722009	Prep Meth: SW3510C		
Analysis Date: 08/30/2006	Prep Date: 08/23/2006		
Basis: Not Filtered	Notes: CI		

Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Acenaphthene	0.0150	0.0500 PQL		ND	UG/L	1
Acenaphthylene	0.0150	0.0500 PQL		ND	UG/L	1
Anthracene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(a)anthracene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(a)pyrene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(b)fluoranthene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(g,h,i)perylene	0.0150	0.0500 PQL		ND	UG/L	1
Benzo(k)fluoranthene	0.0150	0.0500 PQL		ND	UG/L	1
Chrysene	0.0150	0.0500 PQL		ND	UG/L	1
Dibenzo(a,h)anthracene	0.0150	0.0500 PQL		ND	UG/L	1
Fluorene	0.0150	0.0500 PQL		ND	UG/L	1
Fluoranthene	0.0150	0.0500 PQL		ND	UG/L	1
Indeno(1,2,3-cd)pyrene	0.0150	0.0500 PQL		ND	UG/L	1
1-Methylnaphthalene	0.0310	0.100 PQL		ND	UG/L	1
2-Methylnaphthalene	0.0150	0.0500 PQL	J,CI	0.0262	UG/L	1
Naphthalene	0.0310	0.100 PQL	J	0.0423	UG/L	1
Phenanthrene	0.0310	0.100 PQL		ND	UG/L	1
Pyrene	0.0150	0.0500 PQL		ND	UG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
Terphenyl-d14		50-120	SLSA	71.7%		1
CI: See narrative						
J: EPA Flag - Estimated value						

QA/QC Report

Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 183

QC Batch: XXX17166 Matrix: Water QC Lab Samp ID: 724126							
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria	
1-Methylnaphthalene	8270SIM	500.	463.	UG/L	92.6	120-80	MECC
2-Methylnaphthalene	8270SIM	500.	542.	UG/L	108	120-80	MECC
Acenaphthene	8270SIM	500.	527.	UG/L	105	120-80	MECC
Acenaphthylene	8270SIM	500.	537.	UG/L	107	120-80	MECC
Anthracene	8270SIM	500.	574.	UG/L	115	120-80	MECC
Benzo(a)anthracene	8270SIM	500.	521.	UG/L	104	120-80	MECC
Benzo(a)pyrene	8270SIM	500.	522.	UG/L	104	120-80	MECC
Benzo(b)fluoranthene	8270SIM	500.	559.	UG/L	112	120-80	MECC
Benzo(g,h,i)perylene	8270SIM	500.	541.	UG/L	108	120-80	MECC
Benzo(k)fluoranthene	8270SIM	500.	559.	UG/L	112	120-80	MECC
Chrysene	8270SIM	500.	470.	UG/L	94.0	120-80	MECC
Dibenzo(a,h)anthracene	8270SIM	500.	499.	UG/L	99.8	120-80	MECC
Fluoranthene	8270SIM	500.	457.	UG/L	91.4	120-80	MECC
Fluorene	8270SIM	500.	531.	UG/L	106	120-80	MECC
Indeno(1,2,3-cd)pyrene	8270SIM	500.	523.	UG/L	105	120-80	MECC
Naphthalene	8270SIM	500.	559.	UG/L	112	120-80	MECC
Phenanthrene	8270SIM	500.	558.	UG/L	112	120-80	MECC
Pyrene	8270SIM	500.	456.	UG/L	91.2	120-80	MECC
Terphenyl-d14	8270SIM	100.	86.1	PERCE	86.1	120-80	SMEA

SGS Alaska Division Peer Review Report - Horizon Run Log

Queue: XMS Batch: 3759 Create User: KWM Run Date: 08/30/06 Printed: 31-Aug-06

Project	HSN	Type	Sample ID	CC Bottle Number	Matrix	Inst	Run Date/Time	Bench Dilution	Prep Batch	Seq
	724125	IB		OK	1	SQA	08/30/06 11:36	1		1
	724126	CCV		OK	1	SQA	08/30/06 12:33	1		2
	722669	LCS		OK	2	SQA	08/30/06 13:05	1	17183XXX	3
	722668	MB		OK	2	SQA	08/30/06 13:37	1	17183XXX	4
1064821	1064821004	PS	06ST001-SD01-SD	OK 1064821004-B	2 ✓	SQA	08/30/06 14:09 ✓	1	17183XXX	5
1064821	1064821006	PS	06ST001-SD03-SD	OK 1064821006-B	2	SQA	08/30/06 14:41	1	17183XXX	6
1064821	1064821007	PS	06LF005-SD01-SD	OK 1064821007-B	2	SQA	08/30/06 15:14	1	17183XXX	7
1064821	1064821008	PS	06LF005-SD02-SD	OK 1064821008-B	2	SQA	08/30/06 15:46 ✓	1	17183XXX	8
1064821	1064821009	PS	06LF005-SD03-SD	OK 1064821009-B	2 ✓	SQA	08/30/06 16:18 ✓	1	17183XXX	9
1064821	1064821010	PS	06LF005-SD04-SD	OK 1064821010-B	2 ✓	SQA	08/30/06 16:51	1	17183XXX	10
1064901	1064901002	PS	BSA03SS07-1	LR 1064901002-C	2 B	SQA	08/30/06 17:23	1	17183XXX	11
1064903	1064903001	PS	06NTHW14S0	OK 1064903001-E	2 C	SQA	08/30/06 17:55	1	17183XXX	12
1064903	1064903002	PS	06NTHW15S0	OK 1064903002-E	2 C	SQA	08/30/06 18:27	1	17183XXX	13
1064903	1064903003	PS	06NTHW16S0	OK 1064903003-E	2 C	SQA	08/30/06 19:00	1	17183XXX	14
1064903	1064903004	PS	06NTHW17S0	OK 1064903004-E	2 C	SQA	08/30/06 19:32	1	17183XXX	15
1064903	1064903005	PS	06NTHW18S0	OK 1064903005-E	2 C	SQA	08/30/06 20:04	1	17183XXX	16
1064903	1064903006	PS	06NTHW19S0	OK 1064903006-C	2	SQA	08/30/06 20:36	1	17183XXX	17
	722670	MS		OK 1064903006-C	2	SQA	08/30/06 21:08	1	17183XXX	18
1064903	1064903007	BMS	06NTHW19S0 MS	OK 1064903007-C	2	SQA	08/30/06 21:08	1	17183XXX	19
	722671	MSD		OK 1064903006-C	2	SQA	08/30/06 21:40	1	17183XXX	20
1064903	1064903008	BMSD	06NTHW19S0 MSD	OK 1064903008-C	2	SQA	08/30/06 21:40	1	17183XXX	21
1064903	1064903009	PS	06NTHW190S0	OK 1064903009-D	2 C	SQA	08/30/06 22:12	1	17183XXX	22
1064821	1064821005	PS	06ST001-SD02-SD	OK 1064821005-B	2 ✓	SQA	08/30/06 22:45 ✓	10 ✓	17183XXX	23
	722009	MB		OK	1	SQA	08/30/06 23:17	1	17166XXX	24

Injection Log

Directory: f:\PUBLIC\2006\08\SQA\Data\083006

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	3001.d	1.	IB	[SQA] SVW8-135-7	30 Aug 2006 11:04
2	1	3002.d	1.	IB	[SQA] SVW8-135-7	30 Aug 2006 11:36
3	2	3003.d	1.	TUNER	[SQA]	30 Aug 2006 12:08
4	3	3004.d	1.	CCV	[SQA]	30 Aug 2006 12:33
5	4	3005.d	1.	722669 LCS	[SQA]	30 Aug 2006 13:05
6	5	3006.d	1.	722668 MB	[SQA]	30 Aug 2006 13:37
7	6	3007.d	1.	1064821004B	[SQA]	30 Aug 2006 14:09
8	7	3008.d	1.	1064821006B	[SQA]	30 Aug 2006 14:41
9	8	3009.d	1.	1064821007B	[SQA]	30 Aug 2006 15:14
10	9	3010.d	1.	1064821008B	[SQA]	30 Aug 2006 15:46
11	10	3011.d	1.	1064821009B	[SQA]	30 Aug 2006 16:18
12	11	3012.d	1.	1064821010B	[SQA]	30 Aug 2006 16:51
13	12	3013.d	1.	1064901002B	[SQA]	30 Aug 2006 17:23
14	13	3014.d	1.	1064903001C	[SQA]	30 Aug 2006 17:55
15	14	3015.d	1.	1064903002C	[SQA]	30 Aug 2006 18:27
16	15	3016.d	1.	1064903003C	[SQA]	30 Aug 2006 19:00
17	16	3017.d	1.	1064903004C	[SQA]	30 Aug 2006 19:32
18	17	3018.d	1.	1064903005C	[SQA]	30 Aug 2006 20:04
19	18	3019.d	1.	1064903006C	[SQA]	30 Aug 2006 20:36
20	19	3020.d	1.	1064903007C	[SQA]	30 Aug 2006 21:08
21	20	3021.d	1.	1064903008C	[SQA]	30 Aug 2006 21:40
22	21	3022.d	1.	1064903009C	[SQA]	30 Aug 2006 22:12
23	22	3023.d	10.	1064821005B X10	[SQA]	30 Aug 2006 22:45
24	23	3024.d	10.	MB 17166 <i>722009</i>	[SQA]	30 Aug 2006 23:17
25	24	3025.d	10.	1064814001 X10	[SQA]	30 Aug 2006 23:49
26	5	3026.d	1.	BK	[SQA]	31 Aug 2006 00:21

Instrument: SEA Method: PAHS, m Run Date: 8/30/06 Calibration Date: 8/28/06

Operator: (Signature) Processed By: (Signature) Posted By: (Signature) Analytical Batch: 3759
3760

Vial	Sample Name	Dilution	Notes: Odor, Color, Dilution Formula	pH	Rerun
1	IB				
1	IB				
2	Tuner				
3	CCW				
4	722669	1	LCS		
5	722668	1	MVB		
6	4821-4B	1			
7	-6B	1			
8	-7B	1			
9	-8B	1			
10	-9B	1			
11	-10B	1			
12	4901-2B	1			
13	4903-1C	1			
14	-2C	1	rv x 20 High conc down target		
15	-3C	1			
16	-4C	1			
17	-5C	1			
18	-6C	1			
19	-7C	1			
20	-8C	1			
21	-9C	1			
22	4821-5B	10	100µL/900µL		
23	722009	1	MVB 1716C		
24	4814-1	10	100µL/900µL		
5	BIC				

Standards: IS: SUW8-99-2 Mb(C2) 46121
Tuner: SUW8-88-2
CCW: SUW8-135-4



Horizon Batch #: 17166 / 17167

Extraction Bench Sheet

Extraction Method: 3510/sim/625

Extraction Start Date/Time: 8/23/06 11:15

Extraction Finish Date/Time: ↓ 1823

Extr. Technician: RM, JS

Surrogates: SVW8-736

ID	Amount Added (ml)	Conc.
SVW8-736	1ml	0.50 µg/ml
SVW8-74-5	1ml	0.50 µg/ml

Martix Spikes:

Reagent Lot #

H₂SO₄ PW1-36-10
 Glass/Wool PW1-32-5
 1ml pipette 51958

Spike Witness: RM^S, JDS^W

Posted By / Date: AH 8/23/06

Solvent Lot No. Used: CH₂Cl₂ 45277

TV Temperature: 48°

Batch Released By: SJP

#	Workorder No.	Initial Wt./ Vol. (gm / mL)	Final Volume (ml)	shaker speed @150 x3 for 2mins	(pH, sonication level, sample and/or extract description)	Comments
1	Method Blank	1000	1ml		722009	722012 pH=7
2	LCS	↓			↓ 10	↓ 3
3	LCSD	↓			↓ 11	↓ 4
4	4864-1 I	915				
5	-2 I	950				
6	4875-1 J	1000				leaked ~10mls sample in 1 st shake
7	-3					
8	-4					
9	-5					
10	-6					
11	-7					
12	-8					
13	4814-1 C					
14	4864-1 E	915				
15	4864-2 I	950				
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

RM 8/23/06

NOTES:

Section 5.2



SGS Environmental Services
Calibration Review and Validation for:
 PAH SIM: SW 8270-SIM / EPA 625-SIM

SQA 82806

Instrument/Date Code (e.g., SQA0630): SQA082806

Contents:

- Response Factor Report
- Tune Report/Chrom for IB
- Runlog
- Chromatograms for calibration points
- Chromatograms for ICV

Analyst's Initials:	Reviewer's Initials:	Date Reviewed:
①	JCA	8/30/06 JCA
②	JCA	
③	JCA	
④	JCA	
⑤	JCA	
⑥	JCA	
⑦	JCA	
⑧	JCA	
⑨	JCA	
⑩	JCA	
⑪	JCA	
⑫	JCA	
⑬	JCA	
⑭	JCA	
⑮	JCA	
⑯	JCA	
⑰	JCA	
⑱	JCA	
⑲	JCA	
⑳	JCA	
㉑	JCA	
㉒	JCA	
㉓	JCA	
㉔	JCA	
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㊾	JCA	
㊿	JCA	

Validation:

- RF%RSD = 0-15, if >15, then $r^2 > 0.990$
- Minimum of 5 points
- Correct dates
- ICV Verification Form +/- 30%
- Correct calibration levels for PQL
- IS Areas updated/CC ISTD Areas printout
- Linear Regression printouts

Hand calculated Response Factor verified:

RF=(As X Cis)/(Ais X Cs) *naphthalene 100 Std*

Shown= 4.932

Calculated= 4.9318 → 4.932

$(31548 \times 500) / (31984 \times 100)$

Injection Log

Directory: f:\PUBLIC\2006\08\SQA\Data\082806

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	2801.d	1.	IB	[SQA] SVW8-135-7	28 Aug 2006 11:52
2	1	2802.d	1.	IB	[SQA] SVW8-135-7	28 Aug 2006 12:24
3	2	2803.d	1.	TUNER	[SQA]	28 Aug 2006 12:57
4	3	2804.d	1.	CCV	[SQA]	28 Aug 2006 13:21
5	4	2805.d	1.	STD 1 50	[SQA]	28 Aug 2006 13:54
6	5	2806.d	1.	STD 2 100	[SQA]	28 Aug 2006 14:27
7	6	2807.d	1.	STD 3 250	[SQA]	28 Aug 2006 14:59
8	7	2808.d	1.	STD 5 1000	[SQA]	28 Aug 2006 15:32
9	8	2809.d	1.	STD 6 2000	[SQA]	28 Aug 2006 16:04
10	9	2810.d	1.	ICV	[SQA]	28 Aug 2006 16:36
11	1	2811.d	1.	IB	[SQA]	28 Aug 2006 17:09
12	2	2812.d	1.	TUNER	[SQA]	28 Aug 2006 17:41
13	3	2813.d	1.	CCV	[SQA]	28 Aug 2006 18:06
14	10	2814.d	1.	721797 LCS	[SQA]	28 Aug 2006 18:38
15	11	2815.d	1.	721796 MB	[SQA]	28 Aug 2006 19:10
16	12	2816.d	1.	1064750020B	[SQA]	28 Aug 2006 19:42
17	13	2817.d	1.	1064750023B	[SQA]	28 Aug 2006 20:14
18	14	2818.d	1.	1064804002D	[SQA]	28 Aug 2006 20:46
19	15	2819.d	1.	1064868001D	[SQA]	28 Aug 2006 21:19
20	16	2820.d	1.	1064868002D	[SQA]	28 Aug 2006 21:51
21	17	2821.d	1.	1064868003D	[SQA]	28 Aug 2006 22:23
22	18	2822.d	1.	1064868004D	[SQA]	28 Aug 2006 22:55
23	19	2823.d	1.	1064868005D	[SQA]	28 Aug 2006 23:27
24	20	2824.d	1.	1064868006D	[SQA]	28 Aug 2006 23:59
25	21	2825.d	1.	1064868007D	[SQA]	29 Aug 2006 00:31
26	22	2826.d	1.	1064868008D	[SQA]	29 Aug 2006 01:03
27	23	2827.d	1.	1064868009D	[SQA]	29 Aug 2006 01:36
28	24	2828.d	1.	1064868010D	[SQA]	29 Aug 2006 02:08
29	25	2829.d	1.	1064868011D	[SQA]	29 Aug 2006 02:40
30	26	2830.d	20.	1064852013B X20	[SQA]	29 Aug 2006 03:12
31	27	2831.d	20.	1064852022B X20	[SQA]	29 Aug 2006 03:44
32	28	2832.d	20.	1064852023B X20	[SQA]	29 Aug 2006 04:16
33	29	2833.d	20.	1064852024B X20	[SQA]	29 Aug 2006 04:48
34	30	2834.d	20.	1064852025B X20	[SQA]	29 Aug 2006 05:20
35	11	2835.d	1.	BK	[SQA]	29 Aug 2006 05:52

Instrument: SOA Method: PASSIM Run Date: 8/28/06 Calibration Date: 8/28/06

Operator: [Signature] Processed By: [Signature] Posted By: [Signature] Analytical Batch: _____

Vial	Sample Name	Dilution	Notes: Odor, Color, Dilution Formula	pH	Rerun
1	IB				
1	IB				
2	Tuner				
3	CCV		STD 4 500		
4	STD 1	50			
5	STD 2	100			
6	STD 3	250			
7	STD 5	1000			
8	STD 6	2000			
9	ICV				
1	IB				
2	Tuner				
3	CCV				
10	721797		LCS		
11	721796		MB		
12	4750-20B	1			
13	↓ -23B	1			
14	4804-20	1			
15	4868-10	1			
16	↓ -20	1			
17	↓ -30	1			
18	↓ -40	1			
19	↓ -50	1			
20	↓ -60	1			
21	↓ -70	1			
22	↓ -80	1			
23	↓ -90	1			
24	↓ -100	1			
25	↓ -110	1			
26	4852-13B	20	50μL → 950μL		Dark colored Extract
27	↓ -22B	20	↓		
28	↓ -23B	20	↓		
29	↓ -24B	20	↓		
30	↓ -25B	20	↓		
11	BK				

Standards: IS: SUW8-99-2 MeCl₂: 46121
Tuner: SUW8-88-2
CCV: SUW8-135-4

GC/MS QA-QC Check Report

Tune File : F:\PUBLIC\2006\08\SQA\DATA\082806\2803.D

Tune Time : 28 Aug 2006 12:57

Daily Calibration File : F:\Public\2006\08\SQA\Data\082806\2804.D

File	Sample	Surrogate Recovery %	28042	24364
=====				
No Quant Results for F:\PUBLIC\2006\08\SQA\DATA\082806\2802.D				

2804.D	CCV	104	28042	24364

2805.D	STD 1 50	12	31485	23235

2806.D	STD 2 100	23	31984	23165

2807.D	STD 3 250	54	31026	23439

2808.D	STD 5 1000	197	30331	25232

2809.D	STD 6 2000	378	26930	22847

2810.D	ICV	0*	28322	21629

(fails) - fails 12hr time check * - fails criteria

Created: Tue Aug 29 15:41:15 2006 SQA-MS

PAH ICV Verification Form

SQA - 0828
8/28/2006

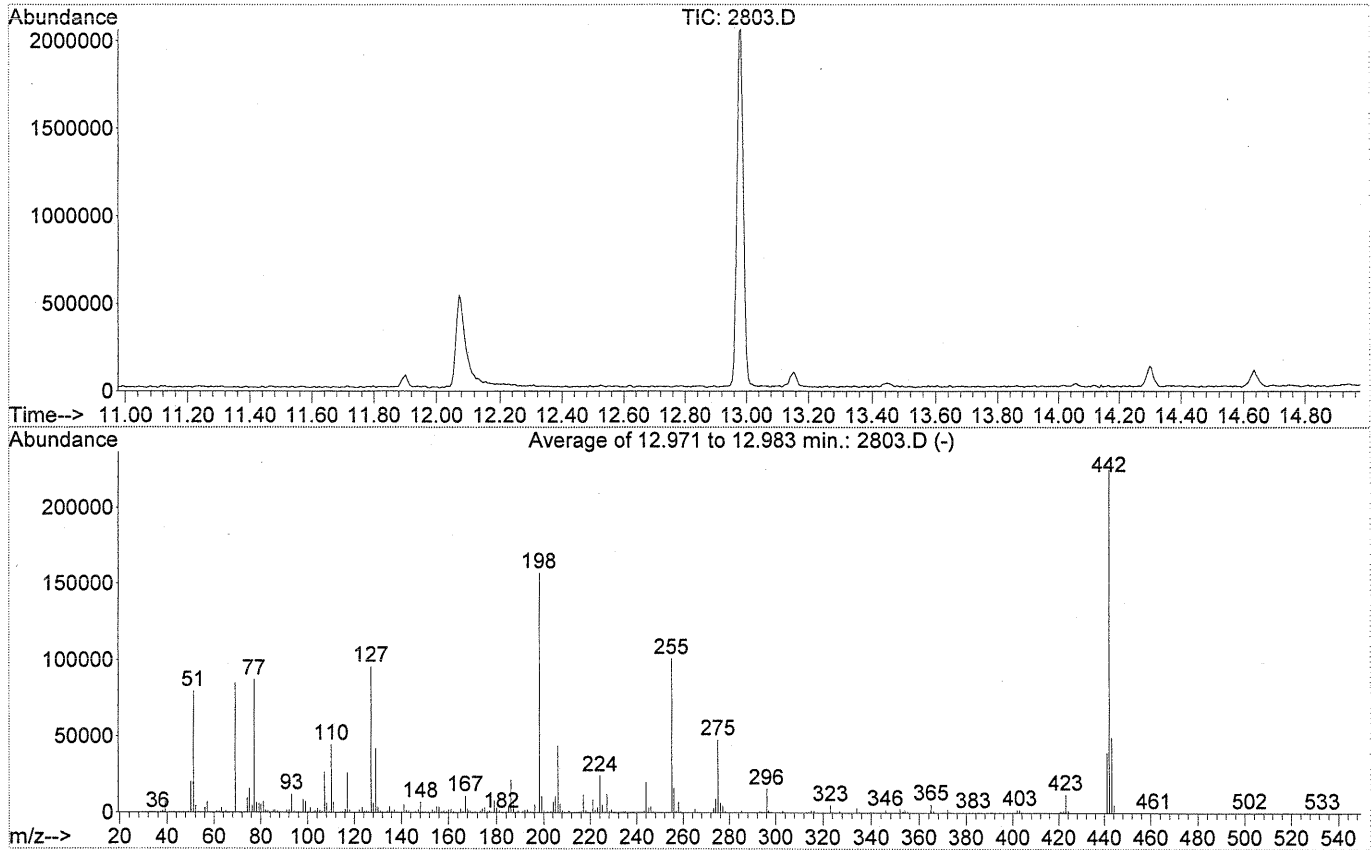
ICV Conc.	True Conc.	% Recovery	Acceptance Criteria
			75% to 125%

Naphthalene	482.02	500	96.4%	PASS
2-Methylnaphthalene	457.69	500	91.5%	PASS
1-Methylnaphthalene	485.64	500	97.1%	PASS
Acenaphthylene	489.26	500	97.9%	PASS
Acenaphthene	478.37	500	95.7%	PASS
Fluorene	480.45	500	96.1%	PASS
Phenanthrene	475.25	500	95.1%	PASS
Anthracene	454.91	500	91.0%	PASS
Fluoranthene	477.05	500	95.4%	PASS
Pyrene	480.47	500	96.1%	PASS
Benzo(a)anthracene	455.93	500	91.2%	PASS
Chrysene	475.3	500	95.1%	PASS
Benzo[b]fluoranthene	437.67	500	87.5%	PASS
Benzo[k]fluoranthene	465.87	500	93.2%	PASS
Benzo[a]pyrene	568.68	500	113.7%	PASS
Indeno[1,2,3-c,d]pyrene	479.96	500	96.0%	PASS
Dibenzo[a,h]anthracene	472.29	501	94.3%	PASS
Benzo[g,h,i]perylene	486.48	502	96.9%	PASS

Data Path : F:\Public\2006\08\SQA\Data\082806\
 Data File : 2803.D
 Acq On : 28 Aug 2006 12:57
 Operator : KWM
 Sample : TUNER
 Misc : [SQA]
 ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0808.M
 Title : SGS 8270C SIM
 Last Update : Mon Aug 28 17:08:00 2006



AutoFind: Scans 1173, 1174, 1175; Background Corrected with Scan 1166

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	50.7	79642	PASS
68	69	0.00	2	0.0	0	PASS
69	442	0.00	100	37.8	85090	PASS
70	69	0.00	2	0.4	351	PASS
127	198	10	80	61.0	95762	PASS
197	198	0.00	2	0.2	274	PASS
198	442	50	100	69.7	157026	PASS
199	198	5	9	6.8	10682	PASS
275	442	10	60	21.2	47794	PASS
365	442	1	100	2.5	5540	PASS
441	443	0.01	100	79.7	39408	PASS
442	442	100	100	100.0	225280	PASS
443	442	15	24	22.0	49474	PASS

Method Path : F:\PUBLIC\2006\06\SQA\METHOD\
 Method File : SIM_0828.M
 Title : SGS 8270C SIM
 Last Update : Tue Aug 29 15:40:07 2006
 Response Via : Initial Calibration

Calibration Files

50 =2805.D 100 =2806.D 250 =2807.D
 500 =2804.D 1000=2808.D 2000=2809.D

Compound	50	100	250	500	1000	2000	Avg	%RSD

1) I Acenaphthene-d10	-----ISTD-----							
2) Naphthalene	4.921	4.932	5.053	4.858	4.363	4.021	4.691	8.67
3) 2-Methylnaphthale	2.965	2.974	3.069	3.056	2.809	2.605	2.913	6.09
4) 1-Methylnaphthale	3.055	2.991	2.787	2.691	2.402	2.179	2.684	12.65
5) 2,6-Dimethylnapht	2.005	2.113	2.134	2.070	1.970	1.861	2.025	5.04
6) 1,6,7-Trimethynap	1.565	1.521	1.583	1.559	1.465	1.350	1.507	5.82
7) Biphenyl	3.363	3.181	3.099	3.144	2.870	2.596	3.042	8.88
8) Acenaphthylene	4.643	4.505	4.544	4.410	4.103	3.747	4.325	7.81
9) Acenaphthene	2.551	2.367	2.376	2.361	2.235	2.068	2.326	6.96
10) Fluorene	2.712	2.561	2.649	2.690	2.499	2.359	2.578	5.20
11) Phenanthrene	3.272	3.253	3.436	3.508	3.137	2.890	3.249	6.80
12) Anthracene	3.022	2.989	3.011	3.260	3.051	2.816	3.025	4.70
13) 1-methylphenanthr	2.143	2.047	2.050	2.167	2.053	1.908	2.061	4.42

14) I Chrysene-d12	-----ISTD-----							
15) Fluoranthene	4.043	4.110	4.190	3.972	3.792	3.505	3.935	6.37
16) Pyrene	4.349	4.272	4.312	4.065	3.857	3.562	4.070	7.62
17) S Terphenyl-d14	1.322	1.280	1.182	1.147	1.086	1.113	1.188	7.90
18) Benzo(a)anthracen	1.849	1.985	1.943	2.152	2.142	2.034	2.018	5.83
19) Chrysene	2.606	2.267	2.574	2.394	2.234	1.995	2.345	9.80
20) Benzo[b]fluoranth	2.082	2.010	1.853	2.075	2.108	1.848	1.996	5.86
21) Benzo[k]fluoranth	2.212	2.515	2.612	2.337	2.078	1.919	2.279	11.52
22) Benzo(e)pyrene	2.036	2.056	2.105	2.016	1.928	1.802	1.990	5.49
23) Benzo[a]pyrene	1.292	1.499	1.495	1.624	1.519	1.415	1.474	7.57
24) Indeno[1,2,3-c,d]	2.300	2.331	2.301	2.168	2.107	1.947	2.192	6.78
25) Dibenzo[a,h]anthr	1.699	1.654	1.692	1.629	1.591	1.466	1.622	5.32
26) Benzo[g,h,i]peryl	2.090	1.939	1.952	1.877	1.847	1.714	1.903	6.57

(#) = Out of Range

CC ISTD Areas

CC Data File : F:\Public\2006\08\SQA\Data\082806\2804.D
Date Acquired: 28 Aug 2006 13:21

ISTD Name	Response
Acenaphthene-d10	28042
Chrysene-d12	24364

Surrogates

Terphenyl-d14

Data Path : F:\Public\2006\08\SQA\Data\082806\
 Data File : 2802.D
 Acq On : 28 Aug 2006 12:24
 Operator : KWM
 Sample : IB
 Misc : [SQA] SVW8-135-7
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 29 15:14:33 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0808.M
 Quant Title : SGS 8270C SIM
 QLast Update : Mon Aug 28 17:08:00 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	10.00	164	32065	500.00	ng/mL	-0.01
14) Chrysene-d12	18.30	240	24573	500.00	ng/mL	-0.01

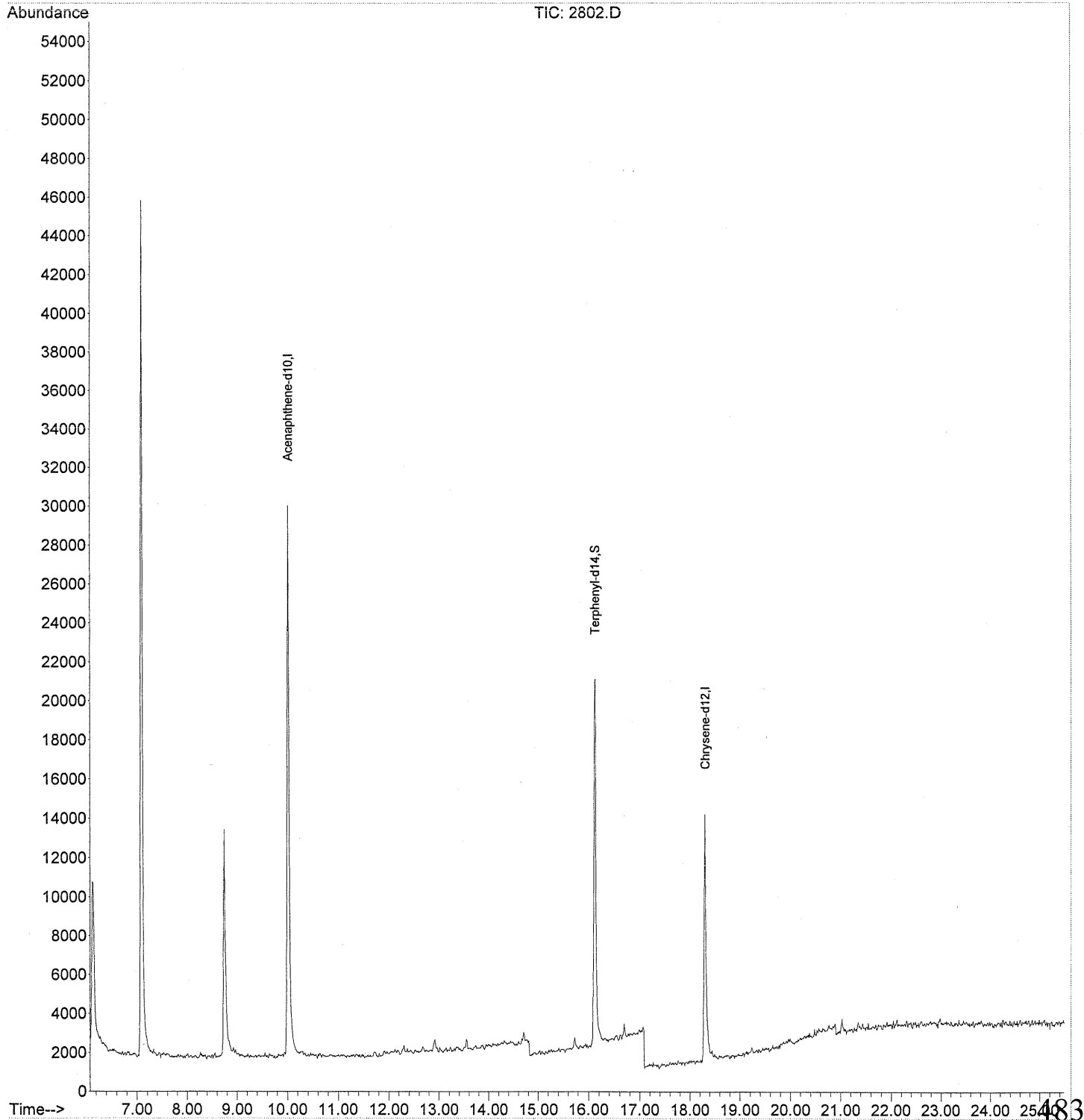
System Monitoring Compounds
 17) Terphenyl-d14 16.12 244 31496 575.41 ng/mL -0.04
 Spiked Amount 500.000 Recovery = 115.08%

Target Compounds Qvalue

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

Data Path : F:\Public\2006\08\SQA\Data\082806\
Data File : 2802.D
Acq On : 28 Aug 2006 12:24
Operator : KWM
Sample : IB
Misc : [SQA] SVW8-135-7
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 29 15:14:33 2006
Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0808.M
Quant Title : SGS 8270C SIM
QLast Update : Mon Aug 28 17:08:00 2006
Response via : Initial Calibration



Data Path : F:\Public\2006\08\SQA\Data\082806\
 Data File : 2804.D
 Acq On : 28 Aug 2006 13:21
 Operator : KWM
 Sample : CCV
 Misc : [SQA]
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 28 16:01:08 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Mon Aug 28 15:59:12 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Acenaphthene-d10	9.99	164	28042	500.00	ng/mL	-0.03
14) Chrysene-d12	18.28	240	24364	500.00	ng/mL	-0.02

System Monitoring Compounds

17) Terphenyl-d14	16.12	244	27954	519.88	ng/mL	-0.04
Spiked Amount	500.000		Recovery	=	103.98%	

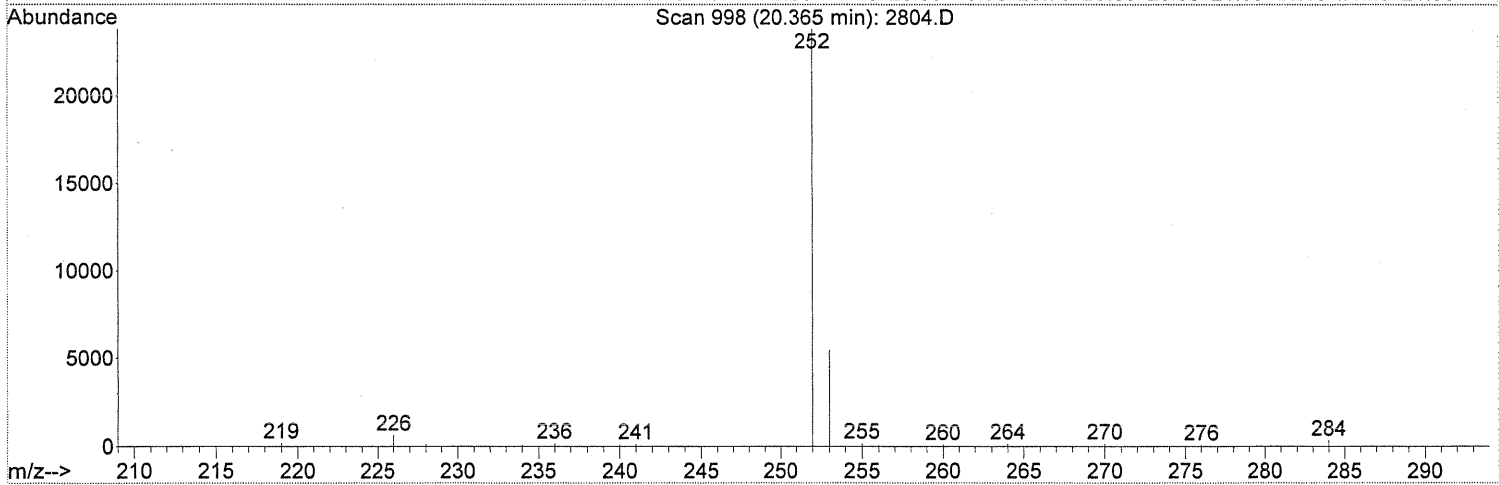
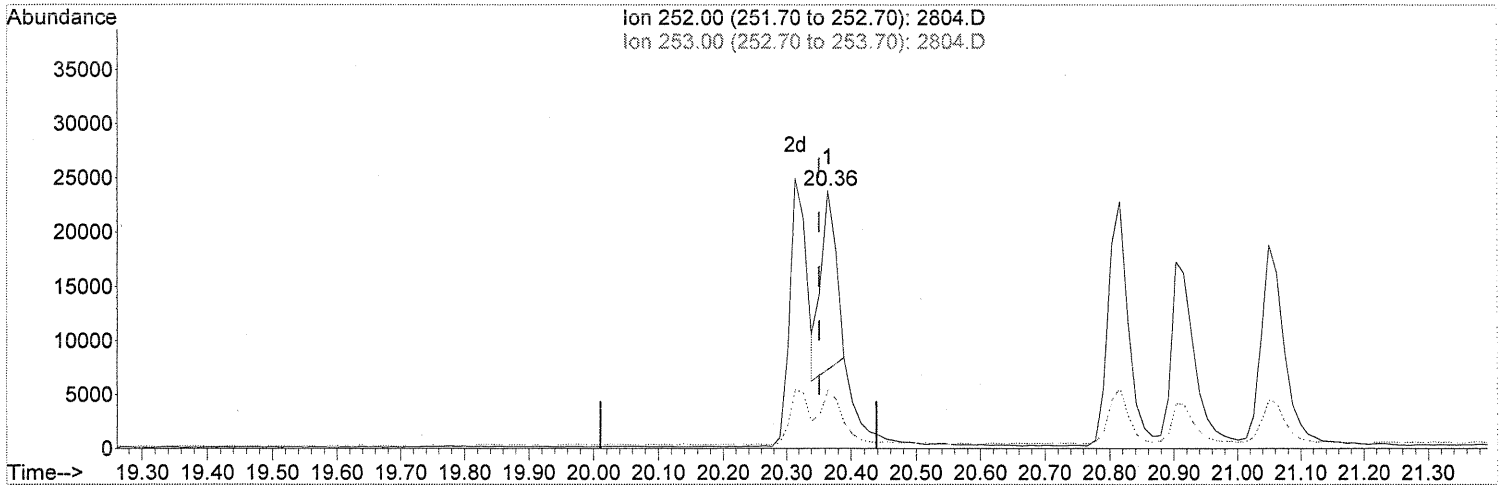
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Naphthalene	7.11	128	136230	551.17	ng/mL	97
3) 2-Methylnaphthalene	8.16	142	85707	569.86	ng/mL	97
4) 1-Methylnaphthalene	8.33	142	75462	554.80	ng/mL	99
5) 2,6-Dimethylnaphthalene	9.22	156	58045	571.91	ng/mL#	80
6) 1,6,7-Trimethylnaphthalene	10.77	170	43727	569.43	ng/mL#	62
7) Biphenyl	8.93	154	88173	536.44	ng/mL	89
8) Acenaphthylene	9.74	152	123668	557.78	ng/mL	100
9) Acenaphthene	10.06	154	66215	558.67	ng/mL	90
10) Fluorene	11.05	166	75433	596.60	ng/mL	85
11) Phenanthrene	12.93	178	98377	599.92	ng/mL	98
12) Anthracene	13.04	178	91429	608.49	ng/mL	98
13) 1-methylphenanthrene	14.18	192	60753	584.62	ng/mL	98
15) Fluoranthene	15.36	202	96783	620.96	ng/mL	95
16) Pyrene	15.81	202	99041	616.66	ng/mL	94
18) Benzo (a) anthracene	18.26	228	52439	579.98	ng/mL	99
19) Chrysene	18.33	228	58332	630.51	ng/mL	98
20) Benzo [b] fluoranthene	20.31	252	50555m	549.89	ng/mL	
21) Benzo [k] fluoranthene	20.36	252	56938m	685.07	ng/mL	
22) Benzo (e) pyrene	20.82	252	49114	565.51	ng/mL#	80
23) Benzo [a] pyrene	20.90	252	39568	563.90	ng/mL	95
24) Indeno [1,2,3-c,d]pyrene	23.18	276	52827	591.94	ng/mL	95
25) Dibenzo [a,h] anthracene	23.18	278	39678	594.87	ng/mL#	86
26) Benzo [g,h,i] perylene	23.80	276	45733	581.28	ng/mL#	87

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

Quantitation Report (Qedit)

Data Path : F:\Public\2006\08\SQA\Data\082806\
 Data File : 2804.D
 Acq On : 28 Aug 2006 13:21
 Operator : KWM
 Sample : CCV
 Misc : [SQA]
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 28 16:00:31 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Mon Aug 28 15:59:12 2006
 Response via : Initial Calibration



TIC: 2804.D

(20) Benzo[b]fluoranthene
 20.365min (+0.013) 288.78ng/mL
 response 26549

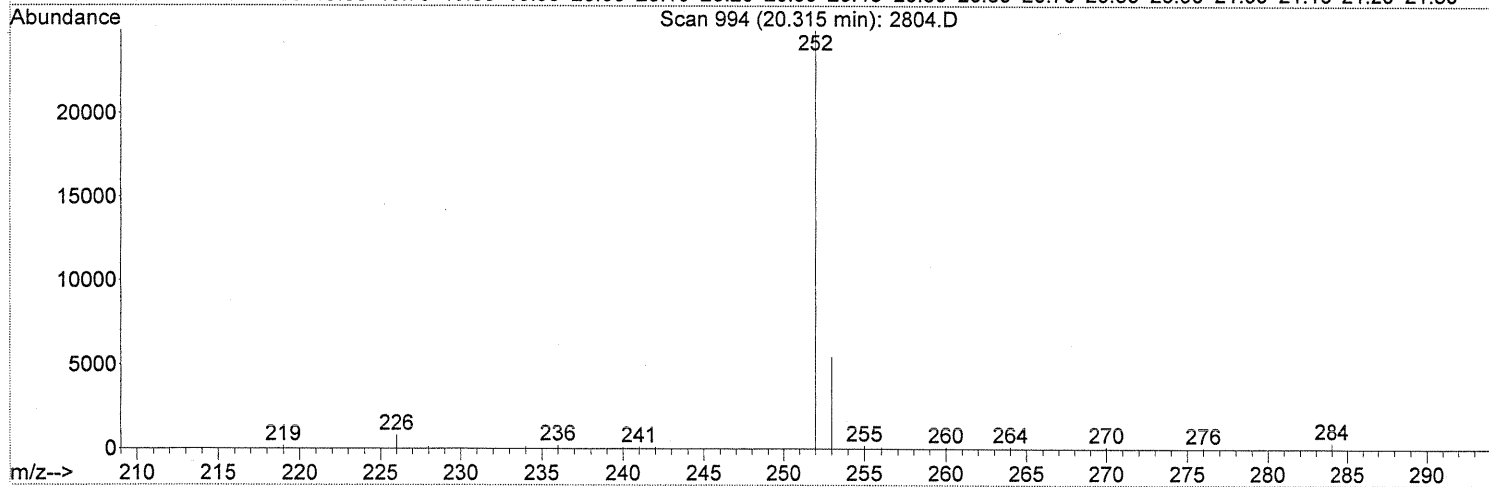
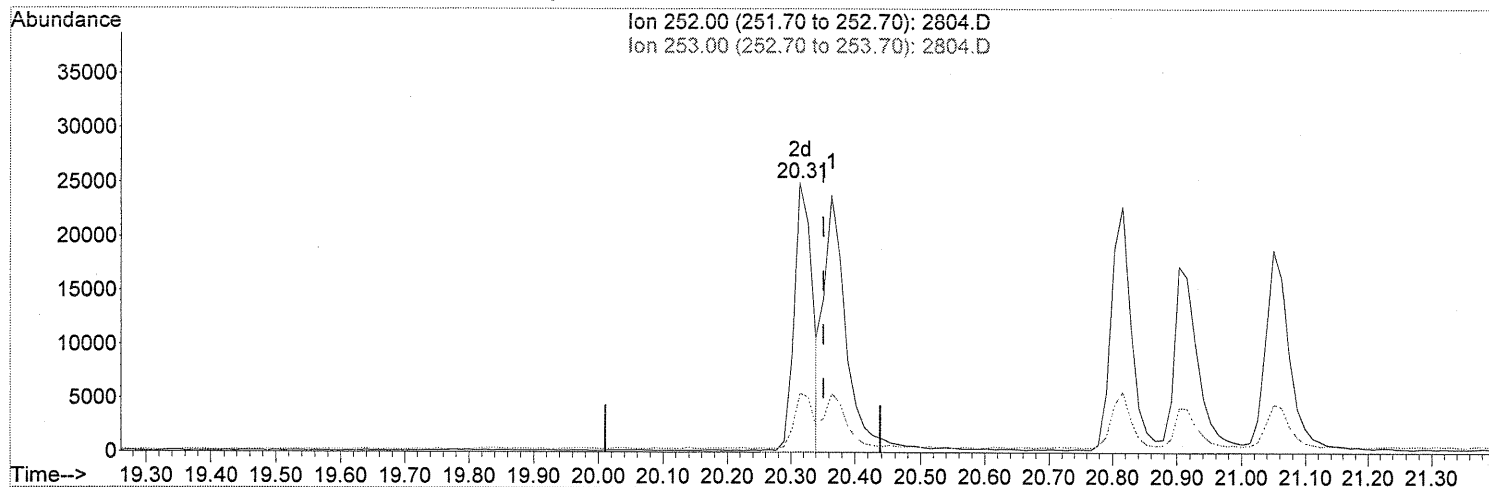
Ion	Exp%	Act%
252.00	100	100
253.00	41.50	19.06#
0.00	0.00	0.00
0.00	0.00	0.00

Before
wrong peak
Ⓟ 8/28/06

Quantitation Report (Qedit)

Data Path : F:\Public\2006\08\SQA\Data\082806\
 Data File : 2804.D
 Acq On : 28 Aug 2006 13:21
 Operator : KWM
 Sample : CCV
 Misc : [SQA]
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 28 16:00:31 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Mon Aug 28 15:59:12 2006
 Response via : Initial Calibration



TIC: 2804.D

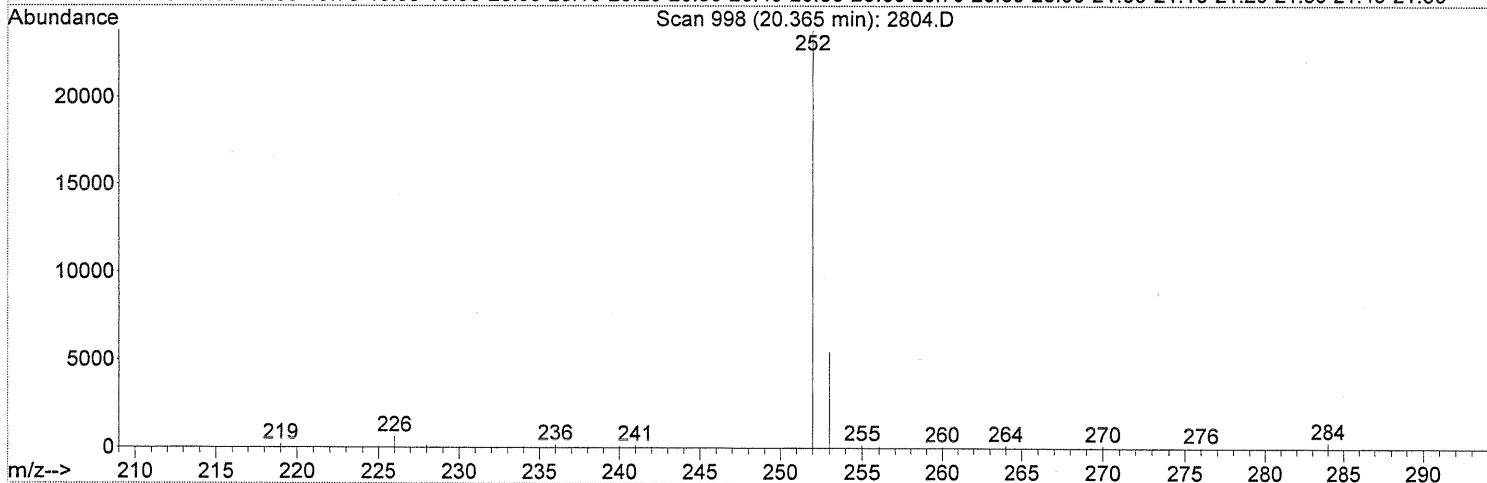
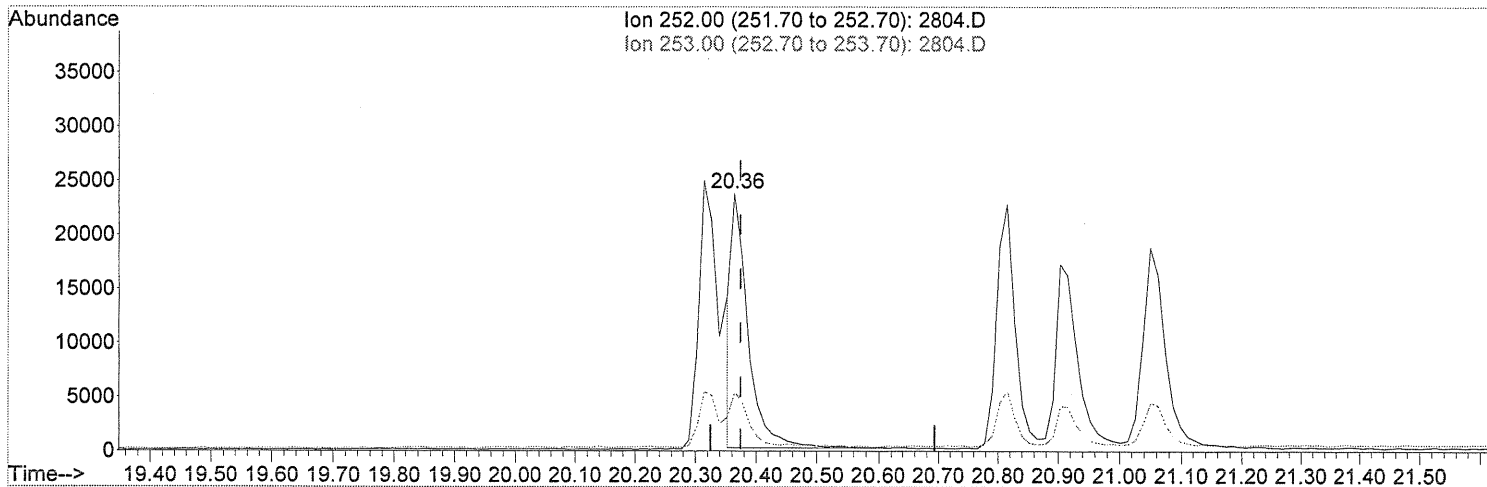
(20) Benzo[b]fluoranthene
 20.315min (-0.038) 549.89ng/mL m
 response 50555

AFed
Ⓟ 8/28/06

Ion	Exp%	Act%
252.00	100	100
253.00	41.50	10.01#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : F:\Public\2006\08\SQA\Data\082806\
 Data File : 2804.D
 Acq On : 28 Aug 2006 13:21
 Operator : KWM
 Sample : CCV
 Misc : [SQA]
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 28 16:00:31 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Mon Aug 28 15:59:12 2006
 Response via : Initial Calibration



TIC: 2804.D

(21) Benzo[k]fluoranthene
 20.365min (-0.010) 544.46ng/mL
 response 45252

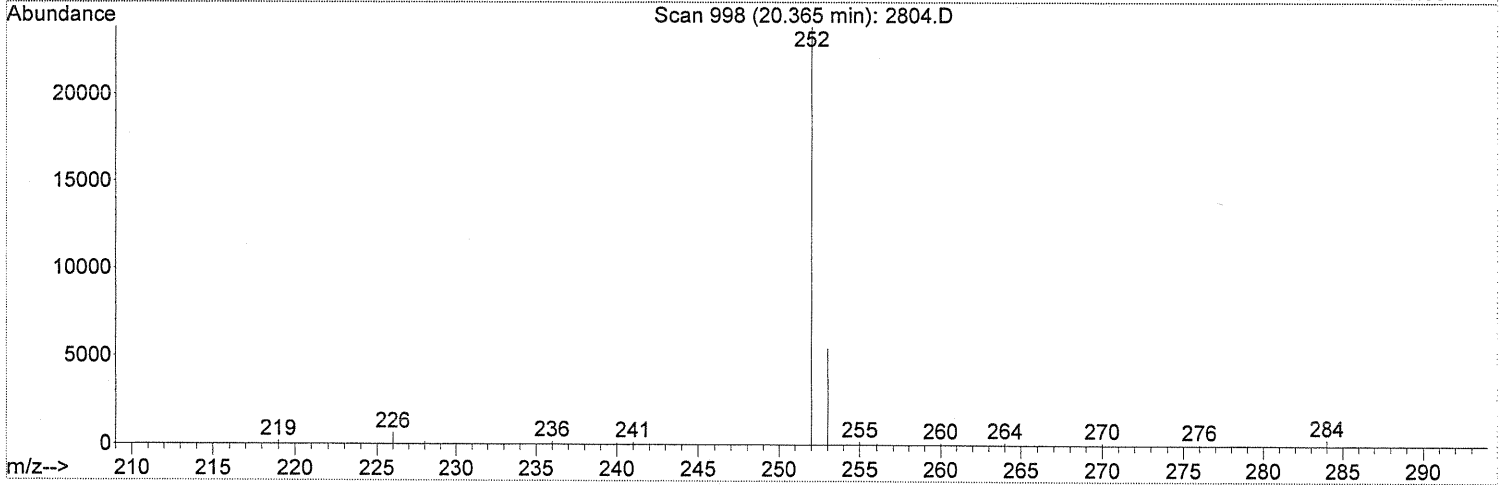
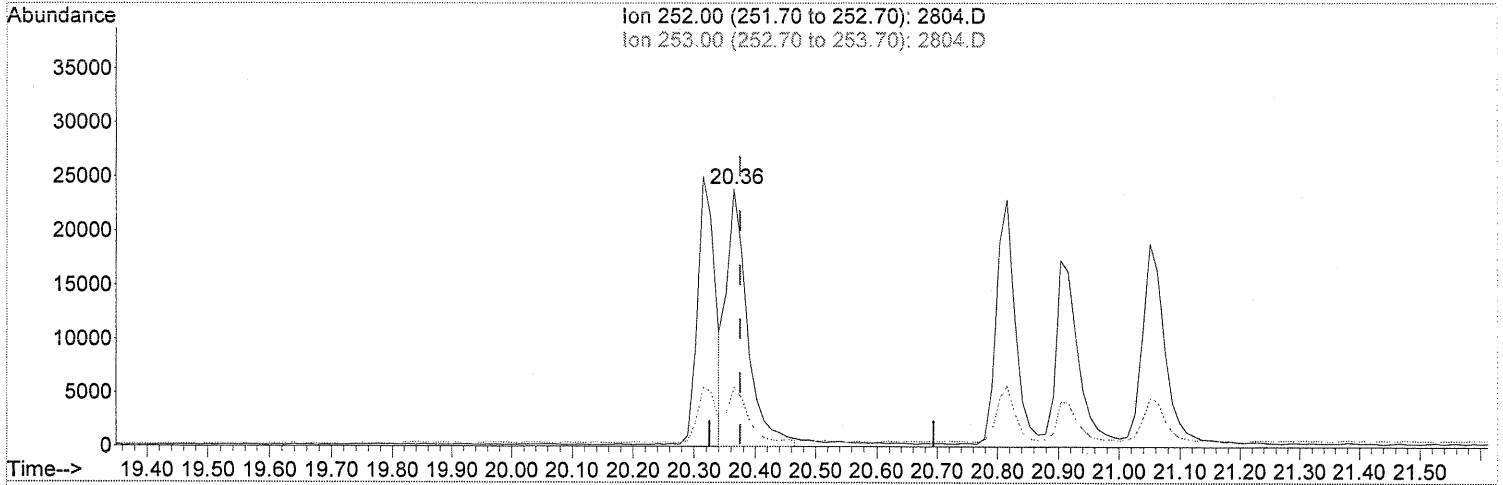
Ion	Exp%	Act%
252.00	100	100
253.00	22.70	20.51
0.00	0.00	0.00
0.00	0.00	0.00

*Before
 moved peak start
 8/28/06*

Quantitation Report (Qedit)

Data Path : F:\Public\2006\08\SQA\Data\082806\
 Data File : 2804.D
 Acq On : 28 Aug 2006 13:21
 Operator : KWM
 Sample : CCV
 Misc : [SQA]
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 28 16:00:31 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Mon Aug 28 15:59:12 2006
 Response via : Initial Calibration



TIC: 2804.D

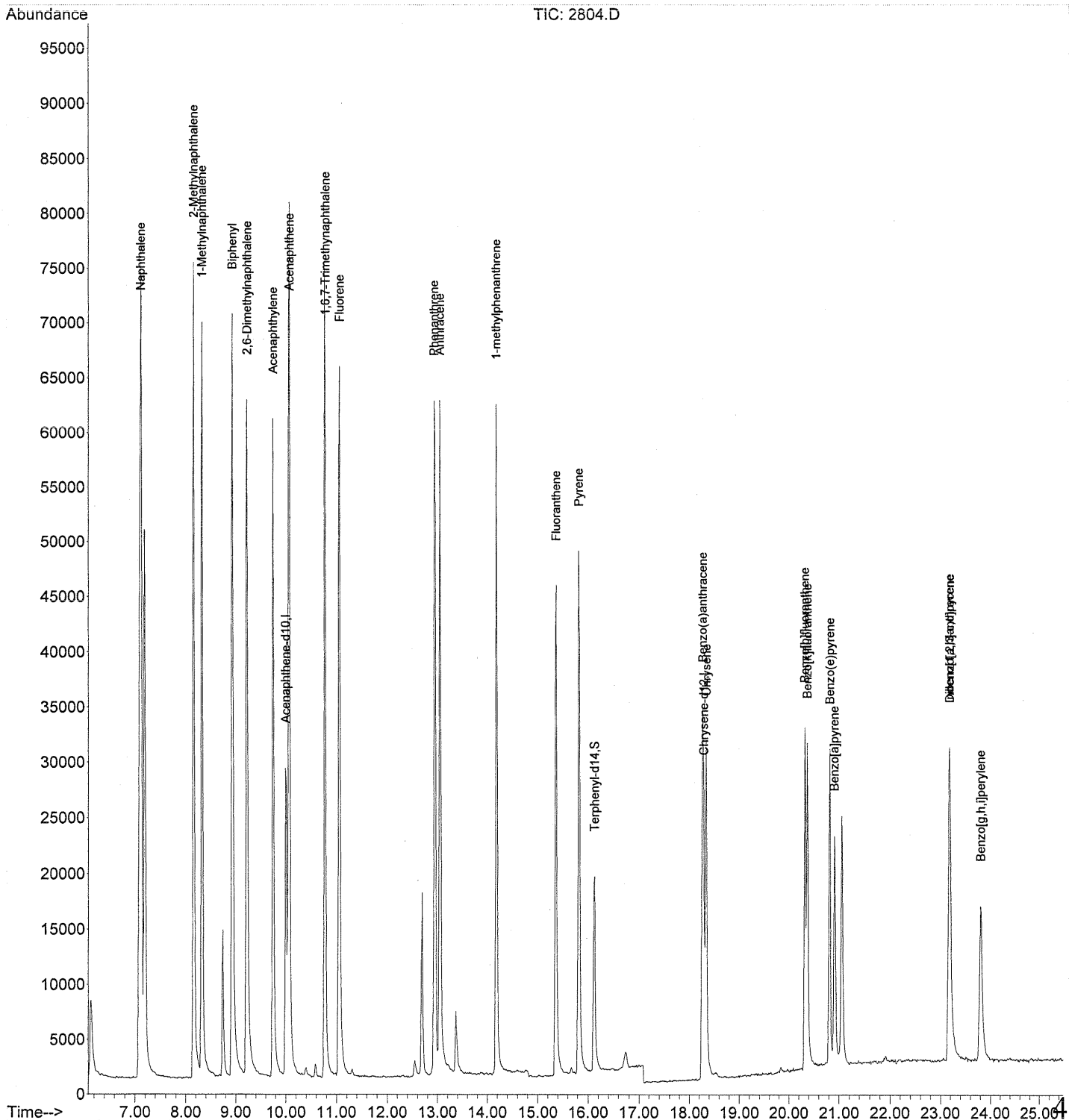
(21) Benzo[k]fluoranthene
 20.365min (-0.010) 685.07ng/mL m
 response 56938

Ion	Exp%	Act%
252.00	100	100
253.00	22.70	16.30#
0.00	0.00	0.00
0.00	0.00	0.00

*After
 Peak Start
 8/28/06*

Data Path : F:\Public\2006\08\SQA\Data\082806\
 Data File : 2804.D
 Acq On : 28 Aug 2006 13:21
 Operator : KWM
 Sample : CCV
 Misc : [SQA]
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 28 16:01:08 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Mon Aug 28 15:59:12 2006
 Response via : Initial Calibration



489

Data Path : F:\Public\2006\08\SQA\Data\082806\
 Data File : 2805.D
 Acq On : 28 Aug 2006 13:54
 Operator : KWM
 Sample : STD 1 50
 Misc : [SQA]
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 15:59:17 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Mon Aug 28 15:59:12 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	10.00	164	31485	500.00	ng/mL	-0.01
14) Chrysene-d12	18.30	240	23235	500.00	ng/mL	-0.01

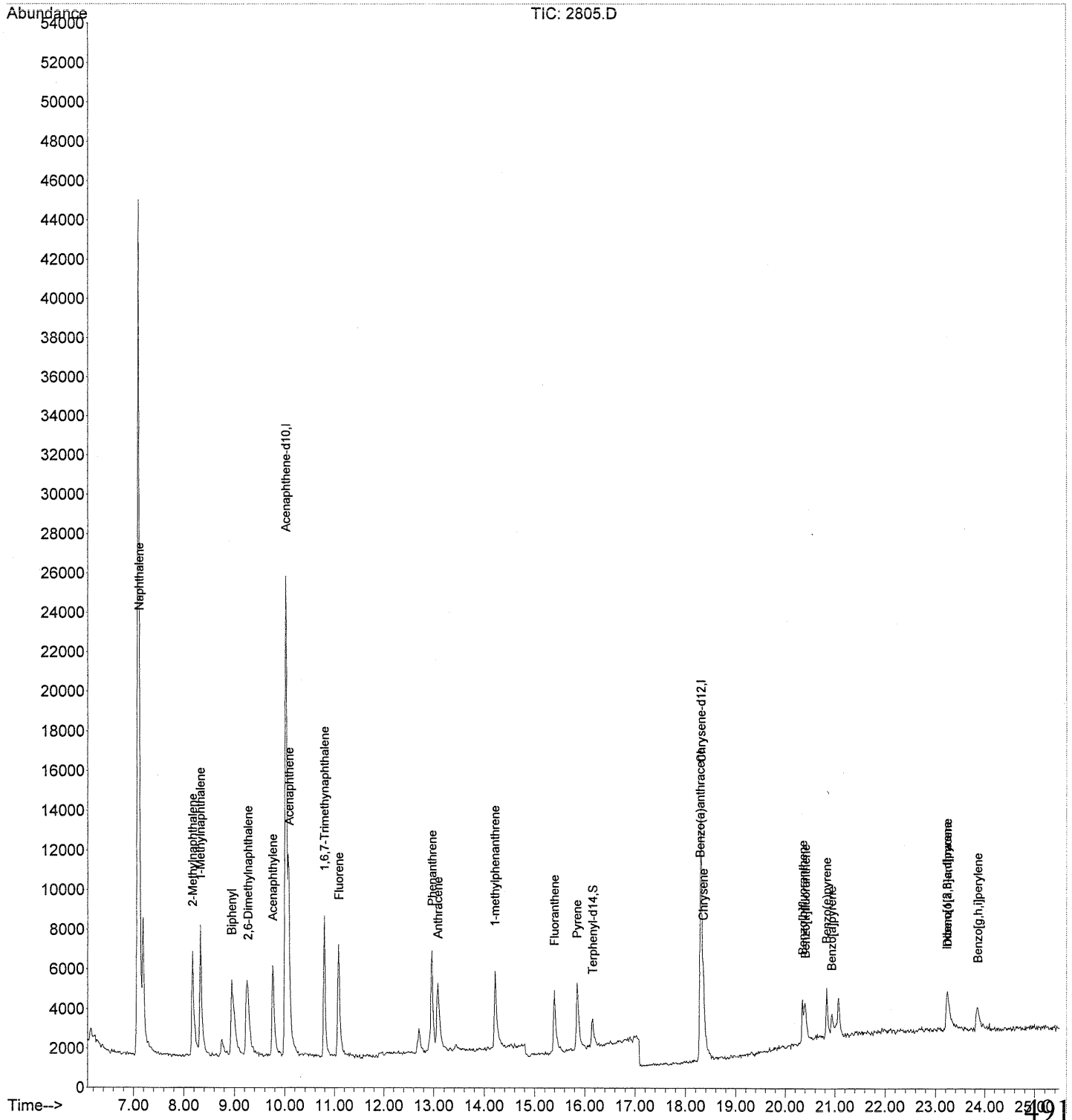
System Monitoring Compounds						
17) Terphenyl-d14	16.15	244	3071	59.89	ng/mL	0.00
Spiked Amount	500.000		Recovery	=	11.98%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Naphthalene	7.11	128	15495	55.83	ng/mL	100
3) 2-Methylnaphthalene	8.17	142	9334	55.27	ng/mL	99
4) 1-Methylnaphthalene	8.33	142	9619	62.99	ng/mL	91
5) 2,6-Dimethylnaphthalene	9.26	156	6312	55.39	ng/mL#	72
6) 1,6,7-Trimethylnaphthalene	10.79	170	4926	57.13	ng/mL#	55
7) Biphenyl	8.94	154	10588	57.37	ng/mL#	87
8) Acenaphthylene	9.75	152	14617	58.72	ng/mL	100
9) Acenaphthene	10.07	154	8033	60.36	ng/mL	91
10) Fluorene	11.08	166	8540	60.16	ng/mL	86
11) Phenanthrene	12.96	178	10301	55.95	ng/mL	98
12) Anthracene	13.08	178	9514	56.39	ng/mL	98
13) 1-methylphenanthrene	14.21	192	6747	57.83	ng/mL	97
15) Fluoranthene	15.39	202	9393	63.19	ng/mL#	92
16) Pyrene	15.85	202	10105	65.97	ng/mL	95
18) Benzo(a)anthracene	18.28	228	4296	49.82	ng/mL	99
19) Chrysene	18.35	228	6055	68.63	ng/mL	93
20) Benzo[b]fluoranthene	20.35	252	4838	55.18	ng/mL#	60
21) Benzo[k]fluoranthene	20.40	252	5139	64.84	ng/mL	95
22) Benzo(e)pyrene	20.83	252	4730	57.11	ng/mL#	82
23) Benzo[a]pyrene	20.93	252	3001	44.85	ng/mL#	79
24) Indeno[1,2,3-c,d]pyrene	23.23	276	5345	62.80	ng/mL#	89
25) Dibenzo[a,h]anthracene	23.24	278	3948	62.07	ng/mL#	86
26) Benzo[g,h,i]perylene	23.86	276	4855	64.71	ng/mL#	89

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

Data Path : F:\Public\2006\08\SQA\Data\082806\
 Data File : 2805.D
 Acq On : 28 Aug 2006 13:54
 Operator : KWM
 Sample : STD 1 50
 Misc : [SQA]
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 15:59:17 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Mon Aug 28 15:59:12 2006
 Response via : Initial Calibration



Data Path : F:\Public\2006\08\SQA\Data\082806\
 Data File : 2806.D
 Acq On : 28 Aug 2006 14:27
 Operator : KWM
 Sample : STD 2 100
 Misc : [SQA]
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 28 16:02:16 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Mon Aug 28 15:59:12 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	10.01	164	31984	500.00	ng/mL	-0.01
14) Chrysene-d12	18.30	240	23165	500.00	ng/mL	-0.01

System Monitoring Compounds						
17) Terphenyl-d14	16.15	244	5929	115.97	ng/mL	0.00
Spiked Amount	500.000		Recovery	=	23.19%	

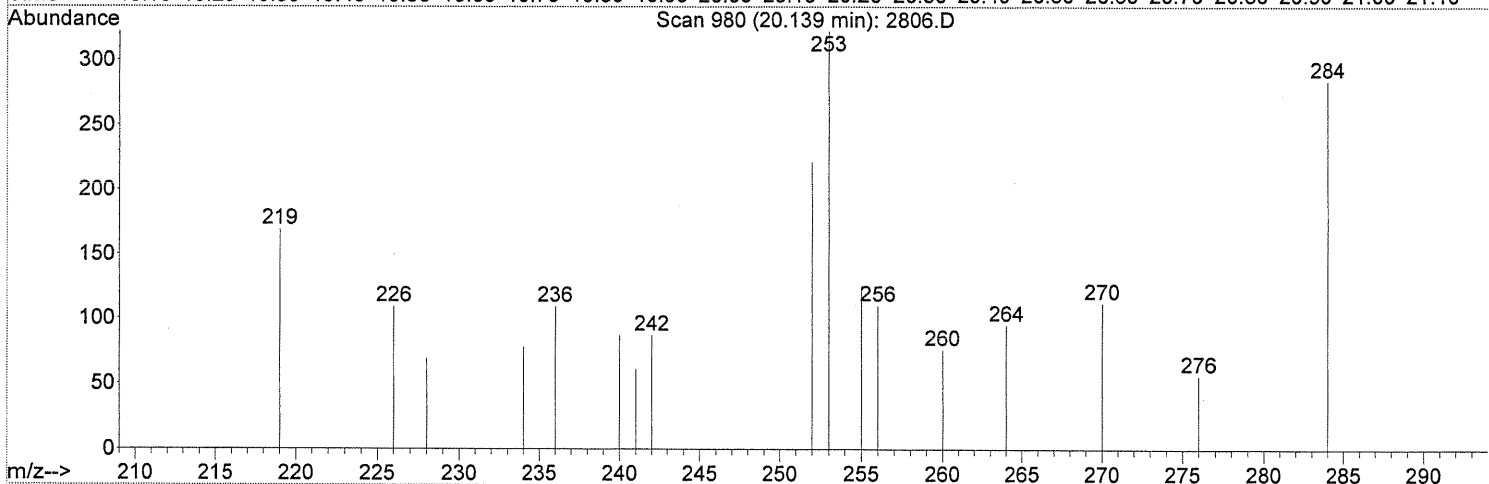
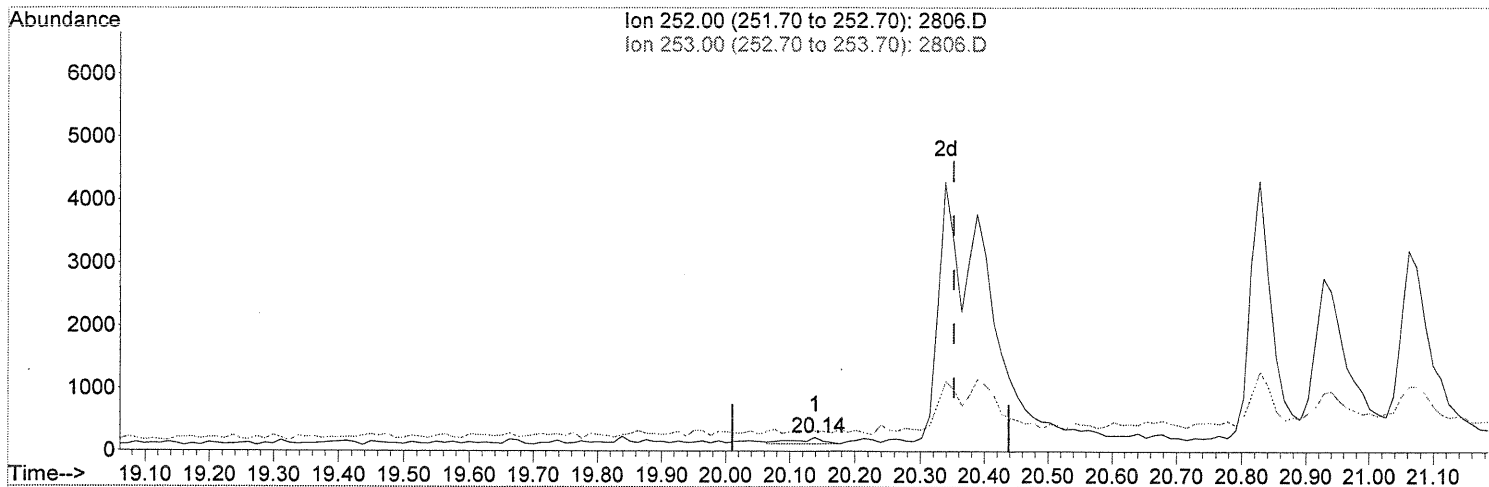
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Naphthalene	7.11	128	31548	111.91	ng/mL	96
3) 2-Methylnaphthalene	8.16	142	19024	110.90	ng/mL	99
4) 1-Methylnaphthalene	8.33	142	19131	123.32	ng/mL	98
5) 2,6-Dimethylnaphthalene	9.25	156	13519	116.78	ng/mL	84
6) 1,6,7-Trimethylnaphthalene	10.79	170	9727	111.06	ng/mL#	56
7) Biphenyl	8.94	154	20348	108.54	ng/mL	88
8) Acenaphthylene	9.75	152	28815	113.95	ng/mL	97
9) Acenaphthene	10.06	154	15143	112.02	ng/mL	90
10) Fluorene	11.08	166	16384	113.61	ng/mL	86
11) Phenanthrene	12.95	178	20810	111.26	ng/mL	98
12) Anthracene	13.08	178	19122	111.58	ng/mL	98
13) 1-methylphenanthrene	14.21	192	13095	110.48	ng/mL	100
15) Fluoranthene	15.38	202	19041	128.49	ng/mL	95
16) Pyrene	15.85	202	19790	129.60	ng/mL	95
18) Benzo(a)anthracene	18.28	228	9198	107.00	ng/mL	90
19) Chrysene	18.35	228	10501	119.38	ng/mL	94
20) Benzo[b]fluoranthene	20.34	252	9312m	106.53	ng/mL	
21) Benzo[k]fluoranthene	20.39	252	11652	147.45	ng/mL	96
22) Benzo(e)pyrene	20.83	252	9527	115.37	ng/mL#	73
23) Benzo[a]pyrene	20.93	252	6944	104.08	ng/mL	91
24) Indeno[1,2,3-c,d]pyrene	23.23	276	10799	127.27	ng/mL	94
25) Dibenzo[a,h]anthracene	23.23	278	7665	120.87	ng/mL#	79
26) Benzo[g,h,i]perylene	23.84	276	8985	120.11	ng/mL#	88

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

Quantitation Report (Qedit)

Data Path : F:\Public\2006\08\SQA\Data\082806\
 Data File : 2806.D
 Acq On : 28 Aug 2006 14:27
 Operator : KWM
 Sample : STD 2 100
 Misc : [SQA]
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 28 15:59:31 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Mon Aug 28 15:59:12 2006
 Response via : Initial Calibration



TIC: 2806.D

(20) Benzo[b]fluoranthene
 20.139min (-0.213) 3.21ng/mL
 response 281

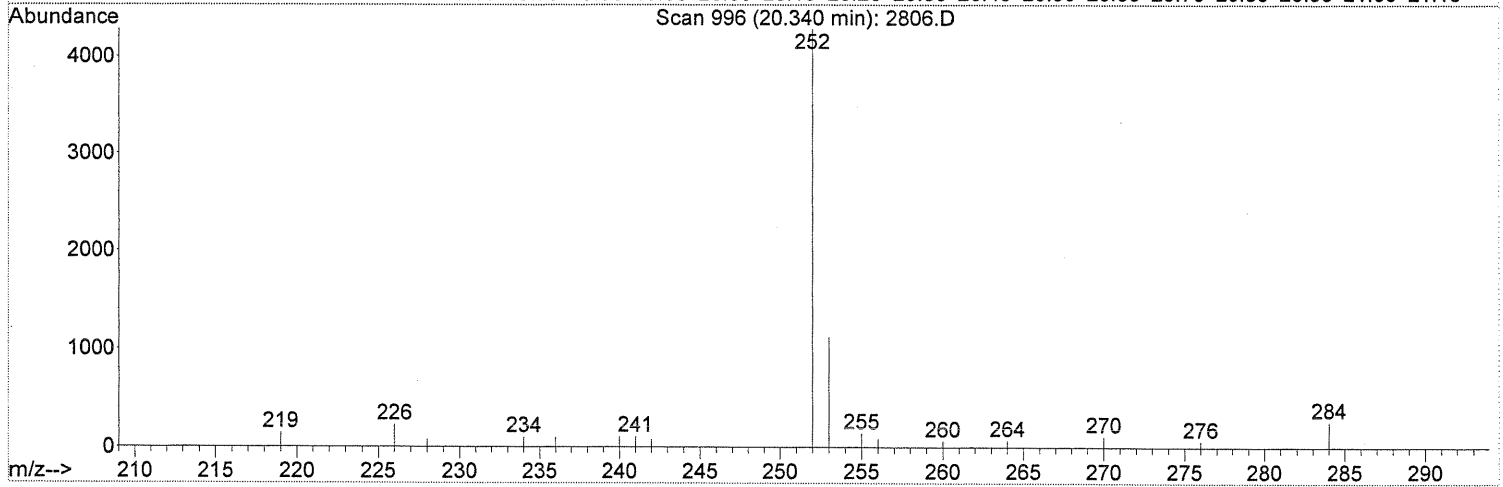
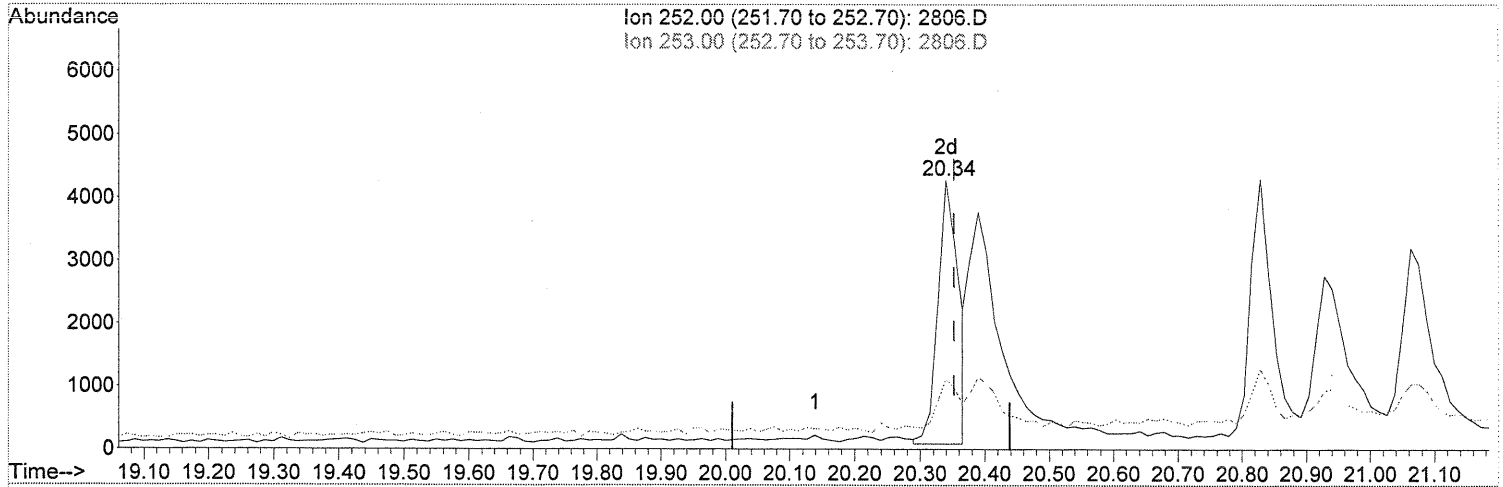
Ion	Exp%	Act%
252.00	100	100
253.00	41.50	34.52
0.00	0.00	0.00
0.00	0.00	0.00

*Before
 wrong peak
 @ 8/28/06*

Quantitation Report (Qedit)

Data Path : F:\Public\2006\08\SQA\Data\082806\
 Data File : 2806.D
 Acq On : 28 Aug 2006 14:27
 Operator : KWM
 Sample : STD 2 100
 Misc : [SQA]
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 28 15:59:31 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Mon Aug 28 15:59:12 2006
 Response via : Initial Calibration



TIC: 2806.D

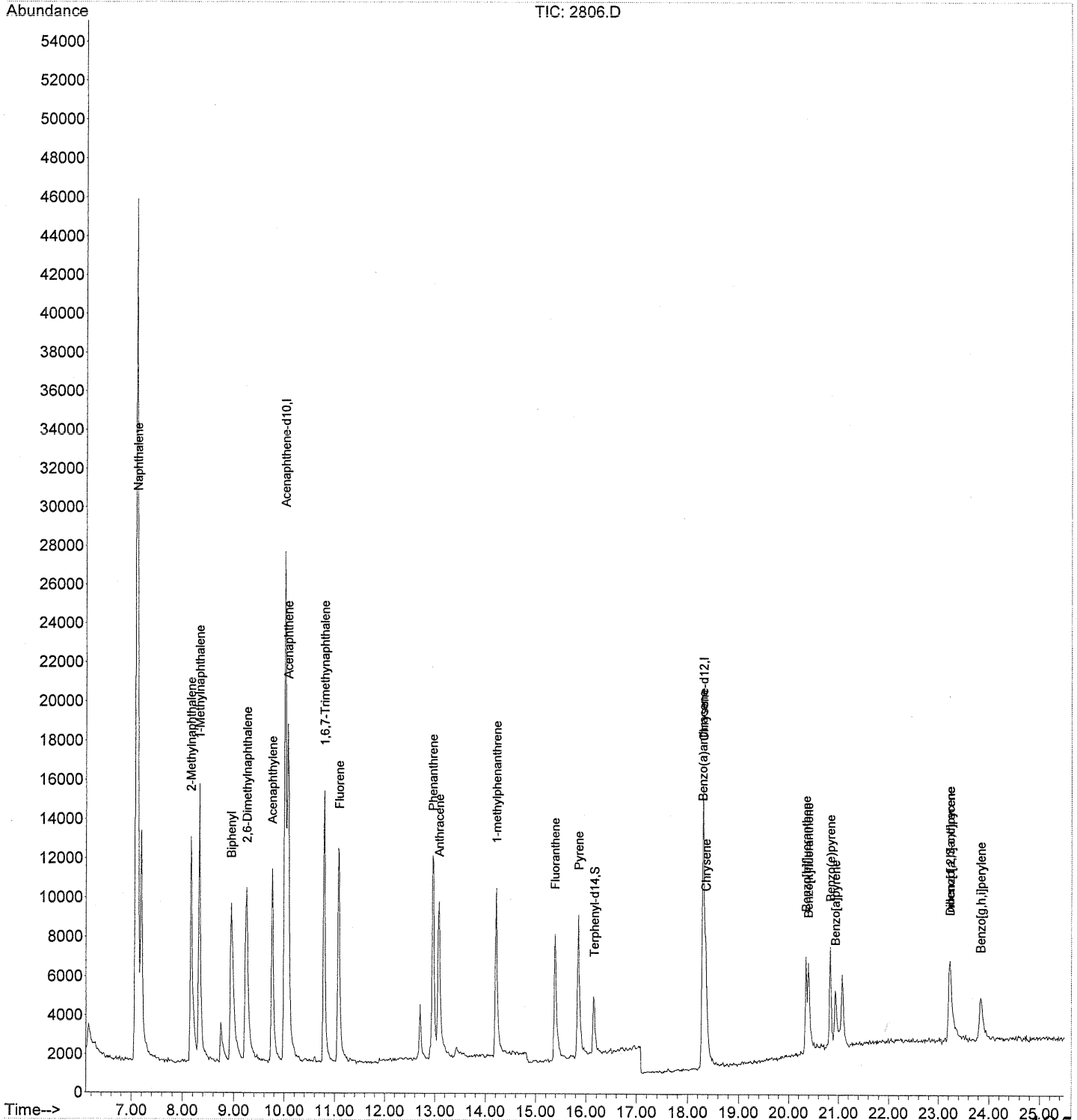
(20) Benzo[b]fluoranthene
 20.340min (-0.012) 106.53ng/mL m
 response 9312

Ion	Exp%	Act%
252.00	100	100
253.00	41.50	1.04#
0.00	0.00	0.00
0.00	0.00	0.00

Handwritten: Afta
 QD 8/28/06

Data Path : F:\Public\2006\08\SQA\Data\082806\
 Data File : 2806.D
 Acq On : 28 Aug 2006 14:27
 Operator : KWM
 Sample : STD 2 100
 Misc : [SQA]
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 28 16:02:16 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Mon Aug 28 15:59:12 2006
 Response via : Initial Calibration



Data Path : F:\Public\2006\08\SQA\Data\082806\
 Data File : 2807.D
 Acq On : 28 Aug 2006 14:59
 Operator : KWM
 Sample : STD 3 250
 Misc : [SQA]
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 28 16:02:50 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Mon Aug 28 15:59:12 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	10.00	164	31026	500.00	ng/mL	-0.01
14) Chrysene-d12	18.29	240	23439	500.00	ng/mL	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
17) Terphenyl-d14	16.14	244	13853	267.80	ng/mL	-0.02
Spiked Amount	500.000		Recovery	=	53.56%	

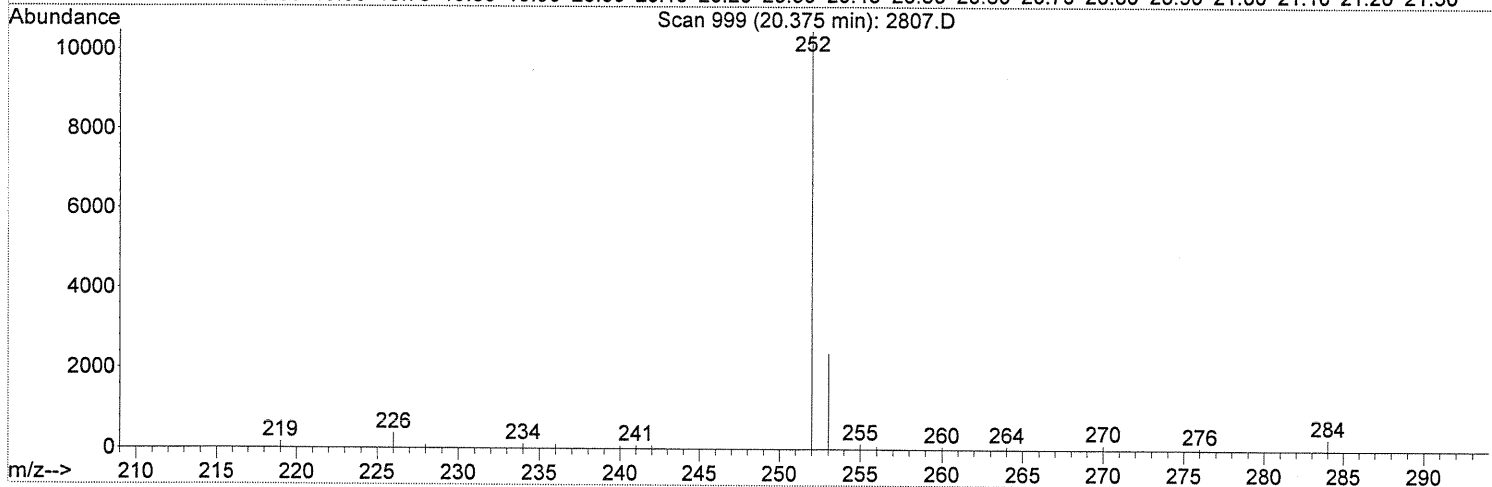
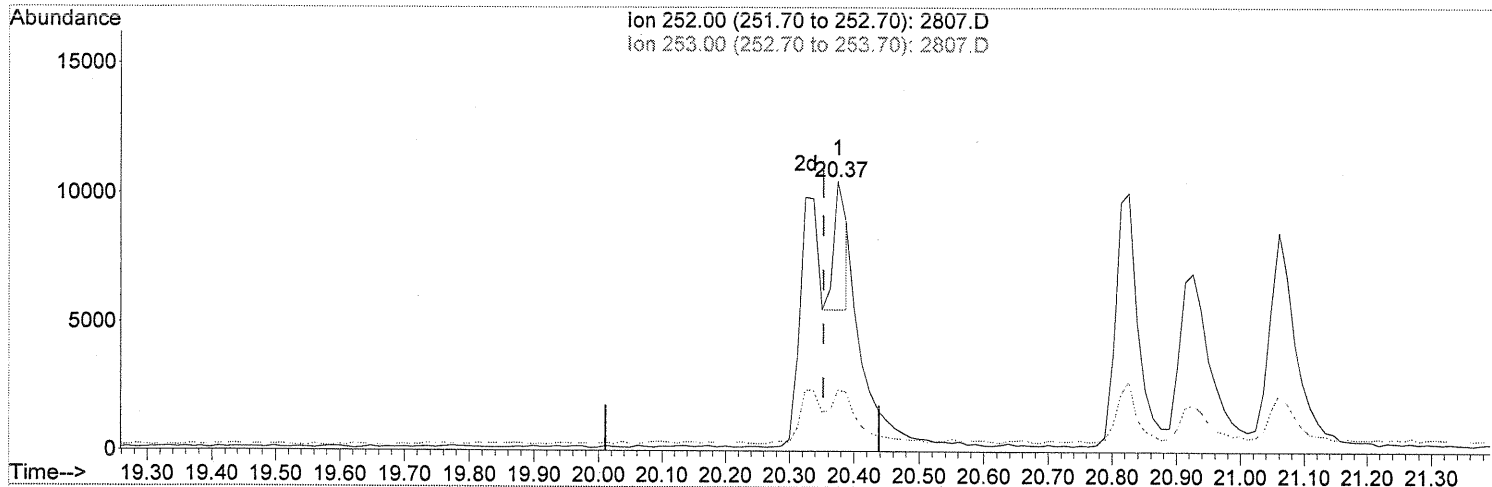
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Naphthalene	7.11	128	78391	286.65	ng/mL	96
3) 2-Methylnaphthalene	8.16	142	47617	286.15	ng/mL	97
4) 1-Methylnaphthalene	8.32	142	43237	287.31	ng/mL	95
5) 2,6-Dimethylnaphthalene	9.23	156	33099	294.76	ng/mL#	82
6) 1,6,7-Trimethynaphthalene	10.77	170	24559	289.06	ng/mL#	62
7) Biphenyl	8.93	154	48072	264.34	ng/mL	90
8) Acenaphthylene	9.75	152	70491	287.36	ng/mL	98
9) Acenaphthene	10.06	154	36854	281.04	ng/mL	91
10) Fluorene	11.07	166	41093	293.74	ng/mL	88
11) Phenanthrene	12.95	178	53299	293.77	ng/mL	97
12) Anthracene	13.06	178	46711	280.98	ng/mL	99
13) 1-methylphenanthrene	14.19	192	31800	276.58	ng/mL	98
15) Fluoranthene	15.37	202	49105	327.49	ng/mL	98
16) Pyrene	15.83	202	50537	327.08	ng/mL	94
18) Benzo(a)anthracene	18.27	228	22768	261.75	ng/mL	97
19) Chrysene	18.34	228	30168	338.95	ng/mL	97
20) Benzo[b]fluoranthene	20.32	252	21722m	245.60	ng/mL	
21) Benzo[k]fluoranthene	20.37	252	30616	382.90	ng/mL#	88
22) Benzo(e)pyrene	20.83	252	24667	295.23	ng/mL#	77
23) Benzo[a]pyrene	20.93	252	17519	259.52	ng/mL	99
24) Indeno[1,2,3-c,d]pyrene	23.20	276	26964	314.06	ng/mL	93
25) Dibenzo[a,h]anthracene	23.20	278	19832	309.06	ng/mL#	82
26) Benzo[g,h,i]perylene	23.82	276	22872	302.18	ng/mL#	89

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

Quantitation Report (Qedit)

Data Path : F:\Public\2006\08\SQA\Data\082806\
 Data File : 2807.D
 Acq On : 28 Aug 2006 14:59
 Operator : KWM
 Sample : STD 3 250
 Misc : [SQA]
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 28 15:59:53 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Mon Aug 28 15:59:12 2006
 Response via : Initial Calibration



TIC: 2807.D

(20) Benzo[b]fluoranthene
 20.375min (+0.023) 79.16ng/mL
 response 7001

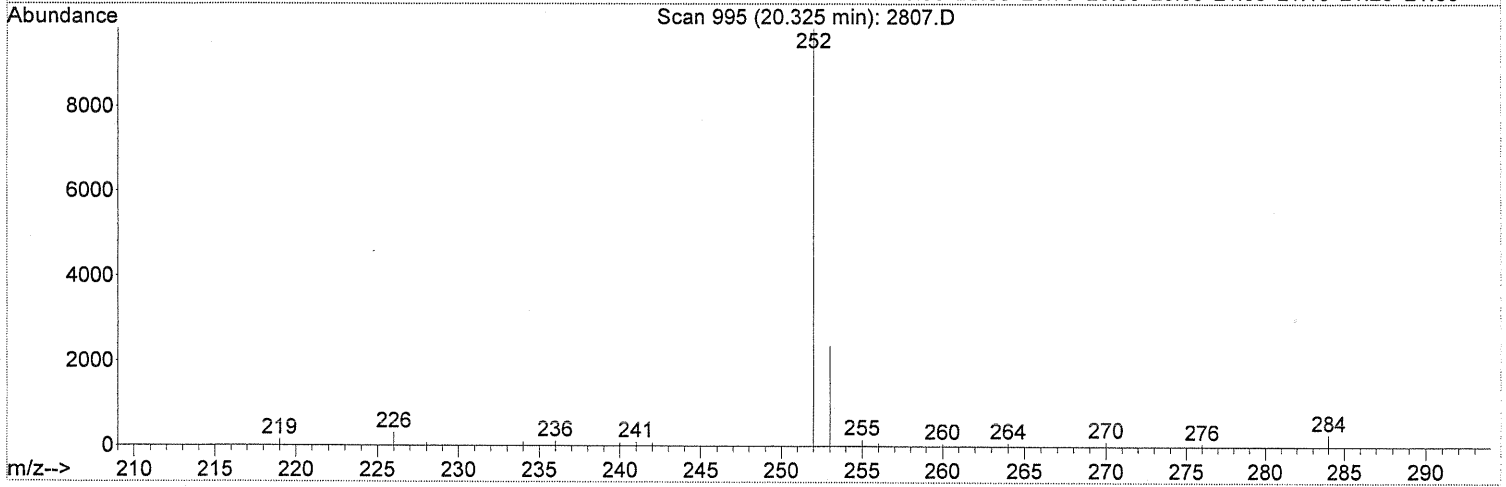
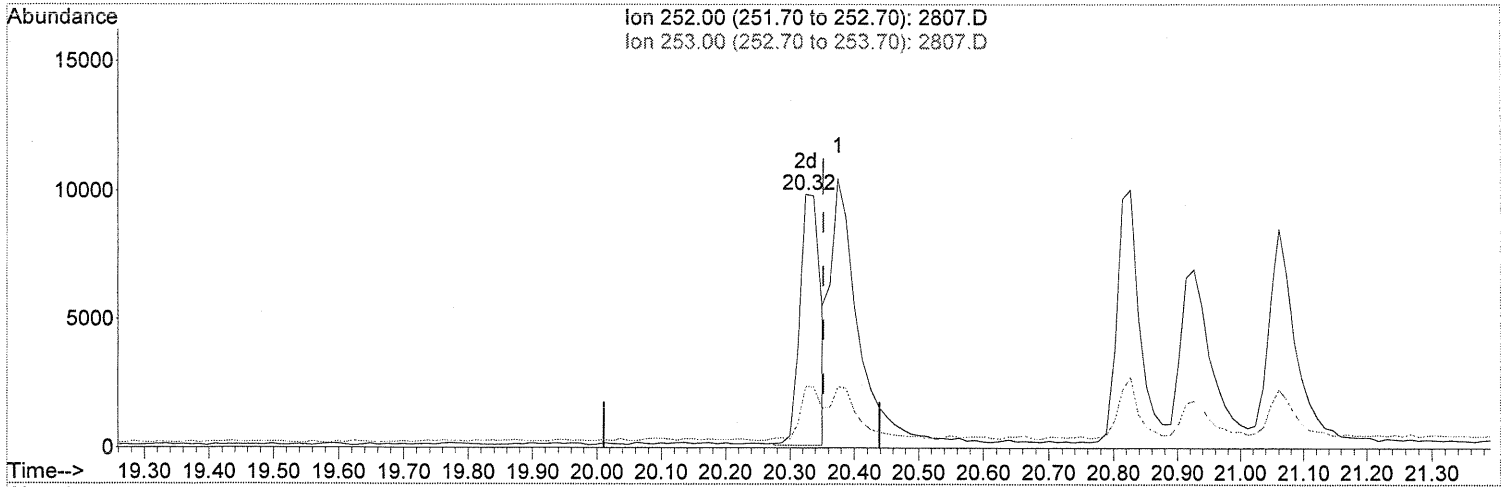
Ion	Exp%	Act%
252.00	100	100
253.00	41.50	16.21#
0.00	0.00	0.00
0.00	0.00	0.00

*Before
 Wrong peak
 @ 8/28/06*

Quantitation Report (Qedit)

Data Path : F:\Public\2006\08\SQA\Data\082806\
 Data File : 2807.D
 Acq On : 28 Aug 2006 14:59
 Operator : KWM
 Sample : STD 3 250
 Misc : [SQA]
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 28 15:59:53 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Mon Aug 28 15:59:12 2006
 Response via : Initial Calibration



TIC: 2807.D

(20) Benzo[b]fluoranthene

20.325min (-0.027) 245.60ng/mL m

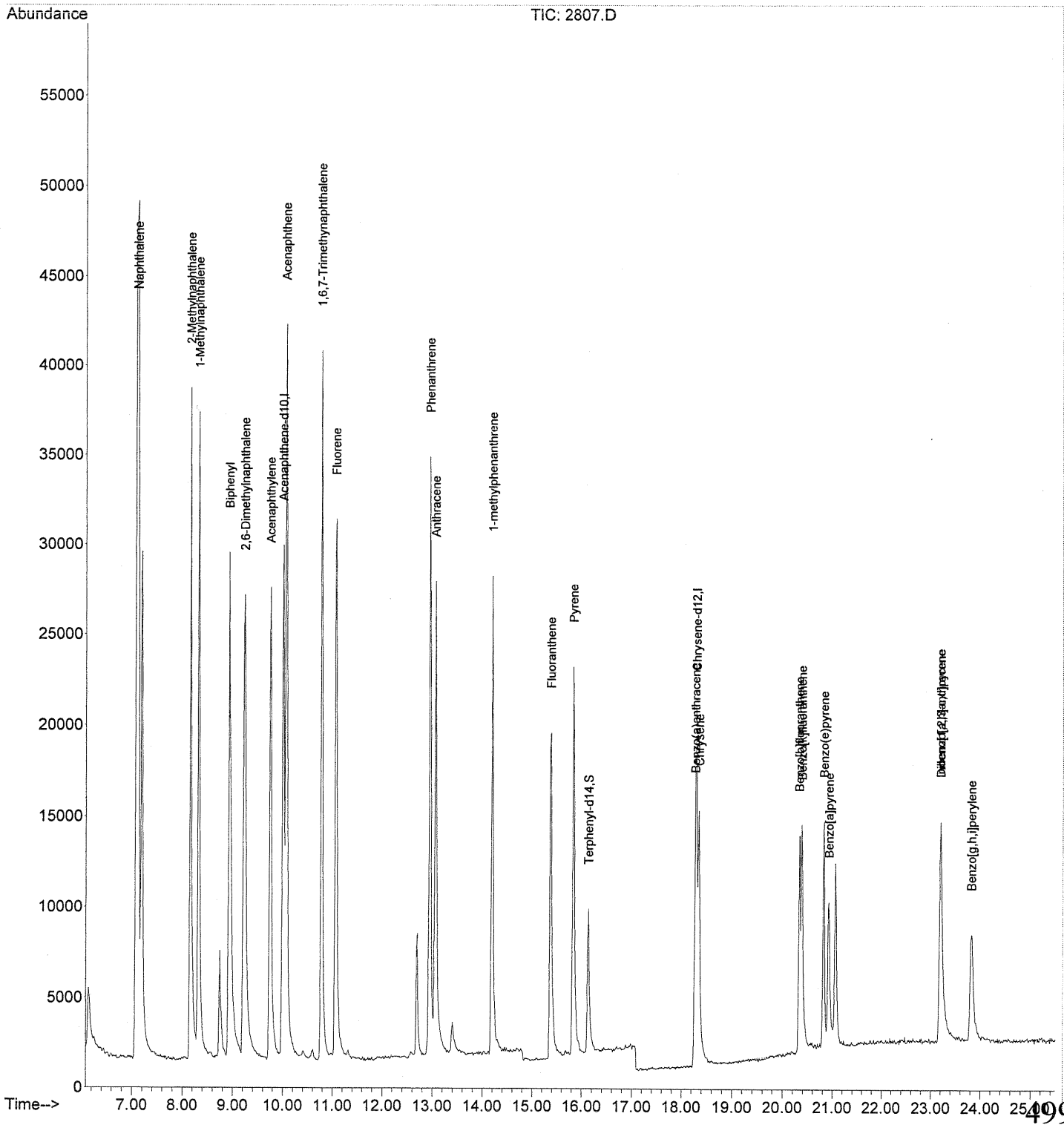
response 21722

Ion	Exp%	Act%
252.00	100	100
253.00	41.50	5.23#
0.00	0.00	0.00
0.00	0.00	0.00

AFH
Ⓜ 8/28/06

Data Path : F:\Public\2006\08\SQA\Data\082806\
 Data File : 2807.D
 Acq On : 28 Aug 2006 14:59
 Operator : KWM
 Sample : STD 3 250
 Misc : [SQA]
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 28 16:02:50 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Mon Aug 28 15:59:12 2006
 Response via : Initial Calibration



Data Path : F:\Public\2006\08\SQA\Data\082806\
 Data File : 2808.D
 Acq On : 28 Aug 2006 15:32
 Operator : KWM
 Sample : STD 5 1000
 Misc : [SQA]
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 28 16:04:52 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Mon Aug 28 15:59:12 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Acenaphthene-d10	9.99	164	30331	500.00	ng/mL	-0.03
14) Chrysene-d12	18.27	240	25232	500.00	ng/mL	-0.04

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev (Min)
17) Terphenyl-d14		16.12	244	54818	984.42	ng/mL	-0.04
Spiked Amount	500.000			Recovery	=	196.88%	

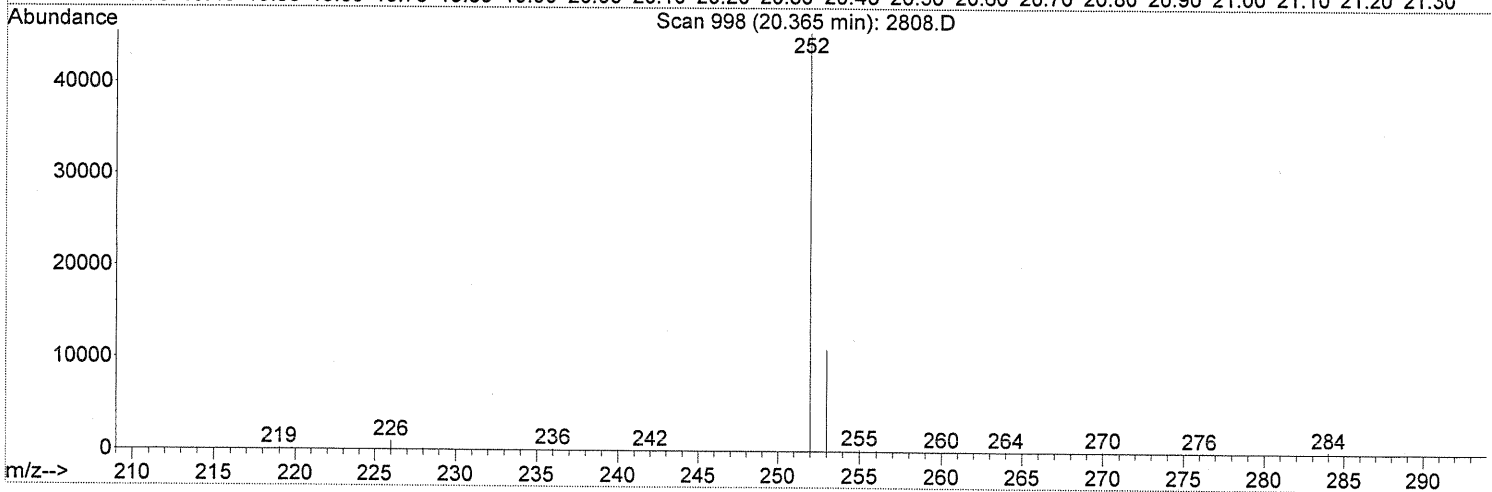
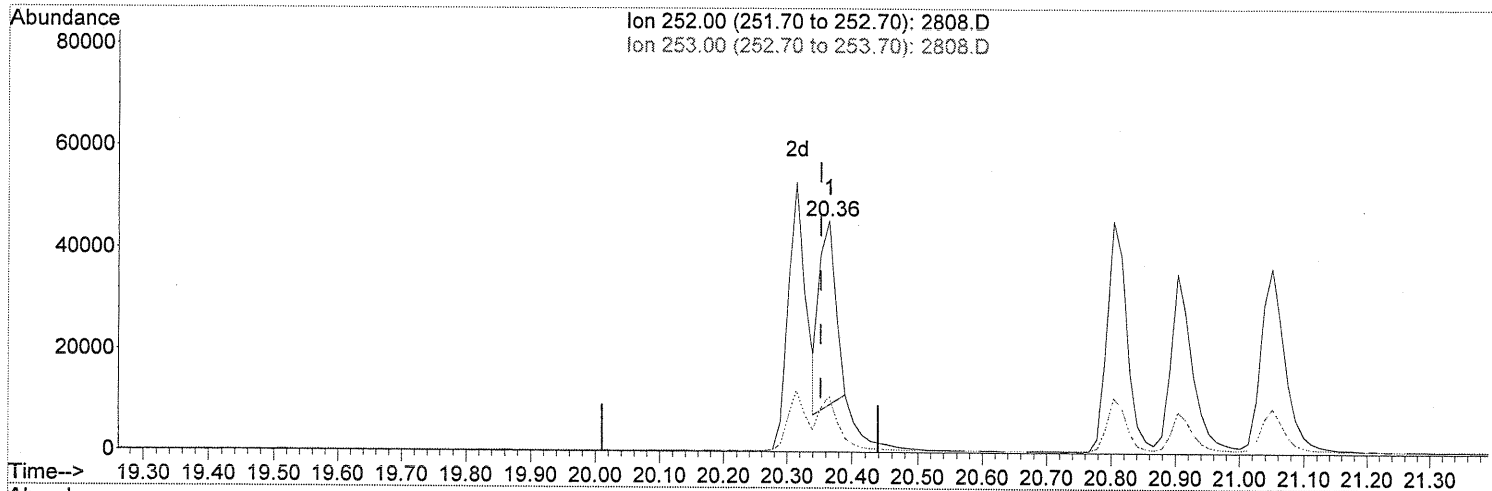
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Naphthalene	7.11	128	264669	990.00	ng/mL	99
3) 2-Methylnaphthalene	8.16	142	170398	1047.46	ng/mL	96
4) 1-Methylnaphthalene	8.33	142	145720	990.49	ng/mL	100
5) 2,6-Dimethylnaphthalene	9.21	156	119520	1088.74	ng/mL#	80
6) 1,6,7-Trimethylnaphthalene	10.76	170	88887	1070.17	ng/mL#	63
7) Biphenyl	8.93	154	174102	979.28	ng/mL	91
8) Acenaphthylene	9.74	152	248900	1037.89	ng/mL	98
9) Acenaphthene	10.05	154	135594	1057.69	ng/mL	87
10) Fluorene	11.04	166	151589	1108.43	ng/mL	84
11) Phenanthrene	12.93	178	190269	1072.73	ng/mL	99
12) Anthracene	13.04	178	185062	1138.71	ng/mL	100
13) 1-methylphenanthrene	14.18	192	124515	1107.77	ng/mL	98
15) Fluoranthene	15.34	202	191361	1185.53	ng/mL	94
16) Pyrene	15.81	202	194646	1170.24	ng/mL	95
18) Benzo (a) anthracene	18.26	228	108115	1154.62	ng/mL	98
19) Chrysene	18.32	228	112739	1176.67	ng/mL	99
20) Benzo [b] fluoranthene	20.31	252	106373m	1117.23	ng/mL	
21) Benzo [k] fluoranthene	20.36	252	104859m	1218.24	ng/mL	
22) Benzo (e) pyrene	20.80	252	97309	1081.89	ng/mL#	80
23) Benzo [a] pyrene	20.90	252	76650	1054.80	ng/mL	95
24) Indeno [1,2,3-c,d] pyrene	23.16	276	106342	1150.60	ng/mL	95
25) Dibenzo [a,h] anthracene	23.16	278	80308	1162.59	ng/mL#	87
26) Benzo [g,h,i] perylene	23.80	276	93208	1143.95	ng/mL#	87

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

Quantitation Report (Qedit)

Data Path : F:\Public\2006\08\SQA\Data\082806\
Data File : 2808.D
Acq On : 28 Aug 2006 15:32
Operator : KWM
Sample : STD 5 1000
Misc : [SQA]
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 28 16:00:11 2006
Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
Quant Title : SGS 8270C SIM
QLast Update : Mon Aug 28 15:59:12 2006
Response via : Initial Calibration



TIC: 2808.D

(20) Benzo[b]fluoranthene
20.365min (+0.013) 671.50ng/mL
response 63934

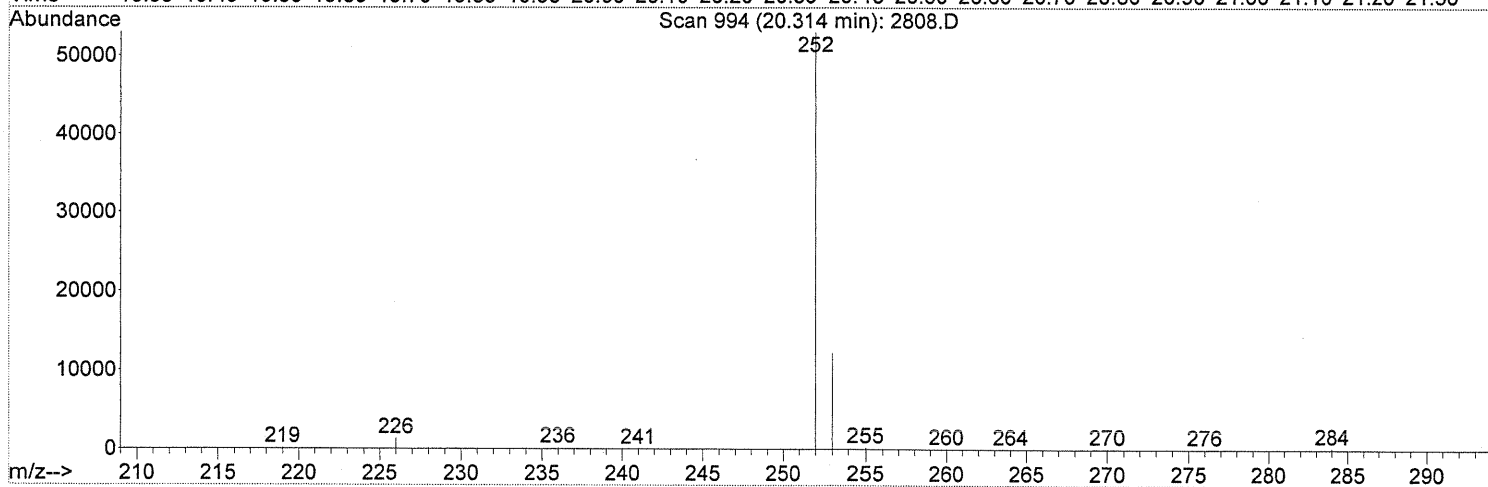
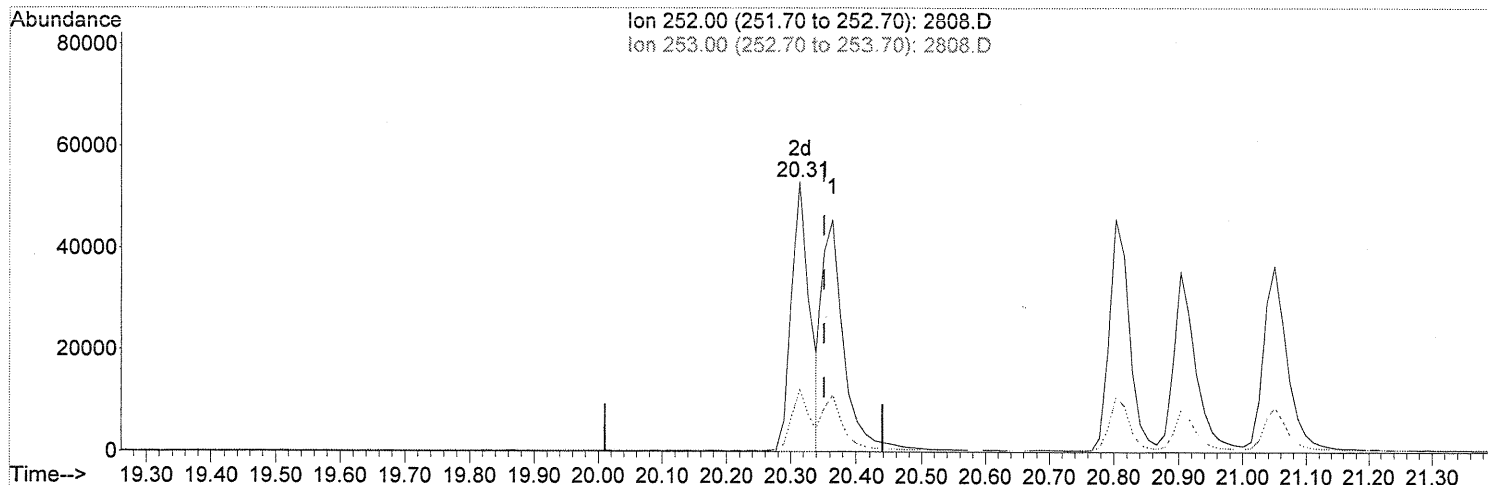
Ion	Exp%	Act%
252.00	100	100
253.00	41.50	22.28#
0.00	0.00	0.00
0.00	0.00	0.00

*Before
Wrong peak
JD 8/28/06*

Quantitation Report (Qedit)

Data Path : F:\Public\2006\08\SQA\Data\082806\
 Data File : 2808.D
 Acq On : 28 Aug 2006 15:32
 Operator : KWM
 Sample : STD 5 1000
 Misc : [SQA]
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 28 16:00:11 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Mon Aug 28 15:59:12 2006
 Response via : Initial Calibration



TIC: 2808.D

(20) Benzo[b]fluoranthene
 20.314min (-0.038) 1117.23ng/mL m
 response 106373

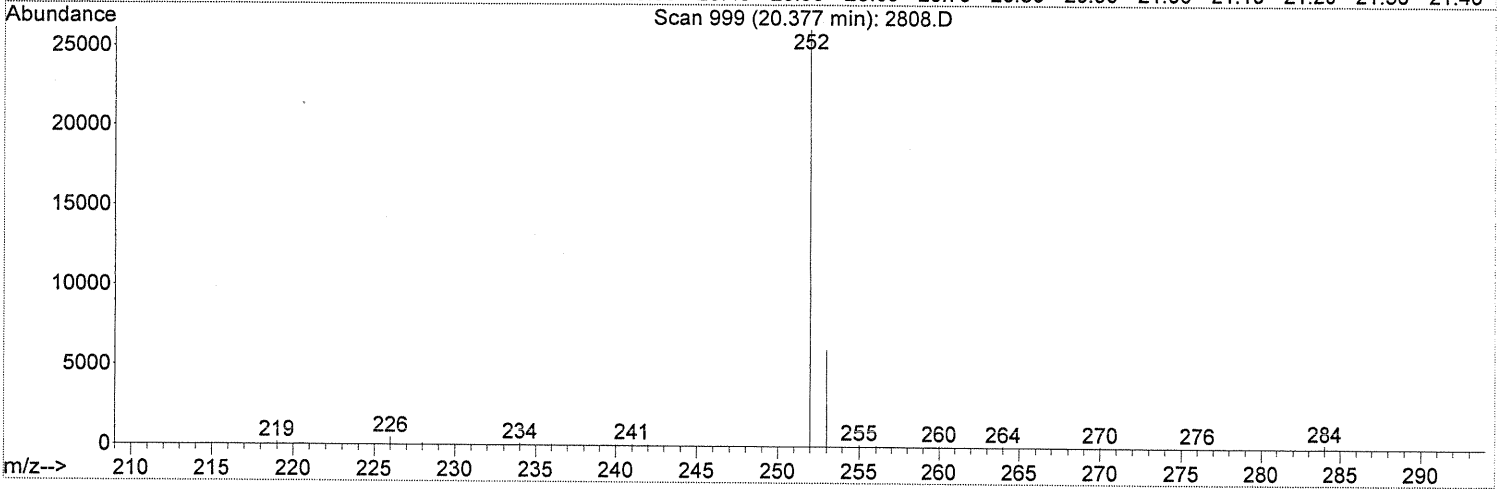
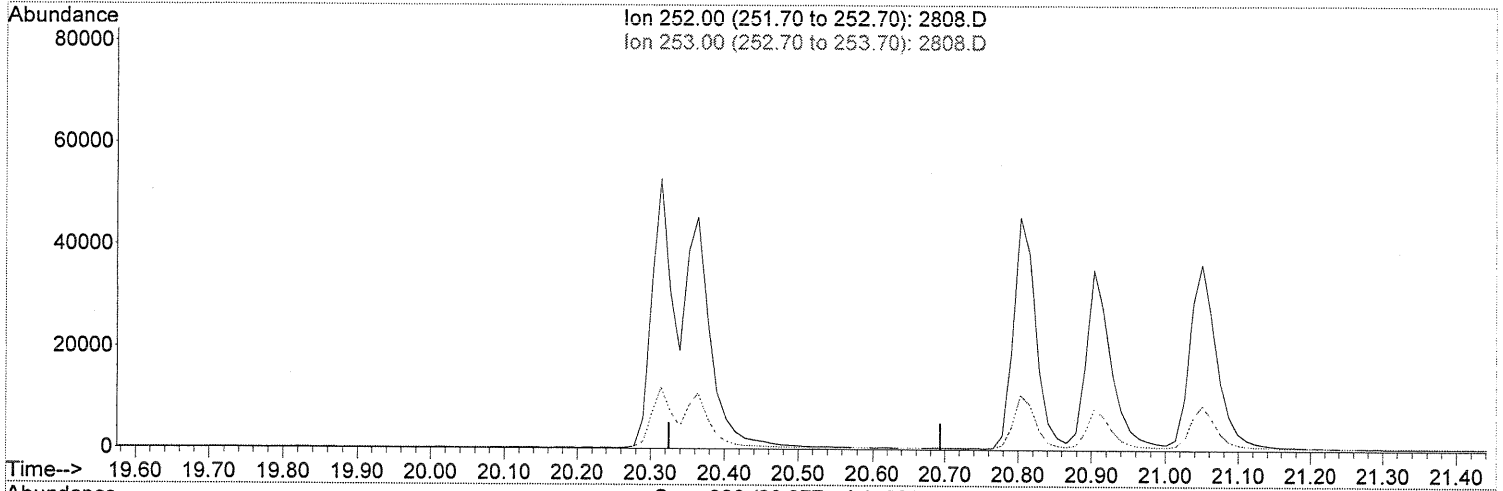
Ion	Exp%	Act%
252.00	100	100
253.00	41.50	13.39#
0.00	0.00	0.00
0.00	0.00	0.00

AFR
9/28/06

Quantitation Report (Qedit)

Data Path : F:\Public\2006\08\SQA\Data\082806\
 Data File : 2808.D
 Acq On : 28 Aug 2006 15:32
 Operator : KWM
 Sample : STD 5 1000
 Misc : [SQA]
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 28 16:00:11 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Mon Aug 28 15:59:12 2006
 Response via : Initial Calibration



TIC: 2808.D

(21) Benzo[k]fluoranthene
 20.375min (-20.375) 0.00ng/mL
 response 0

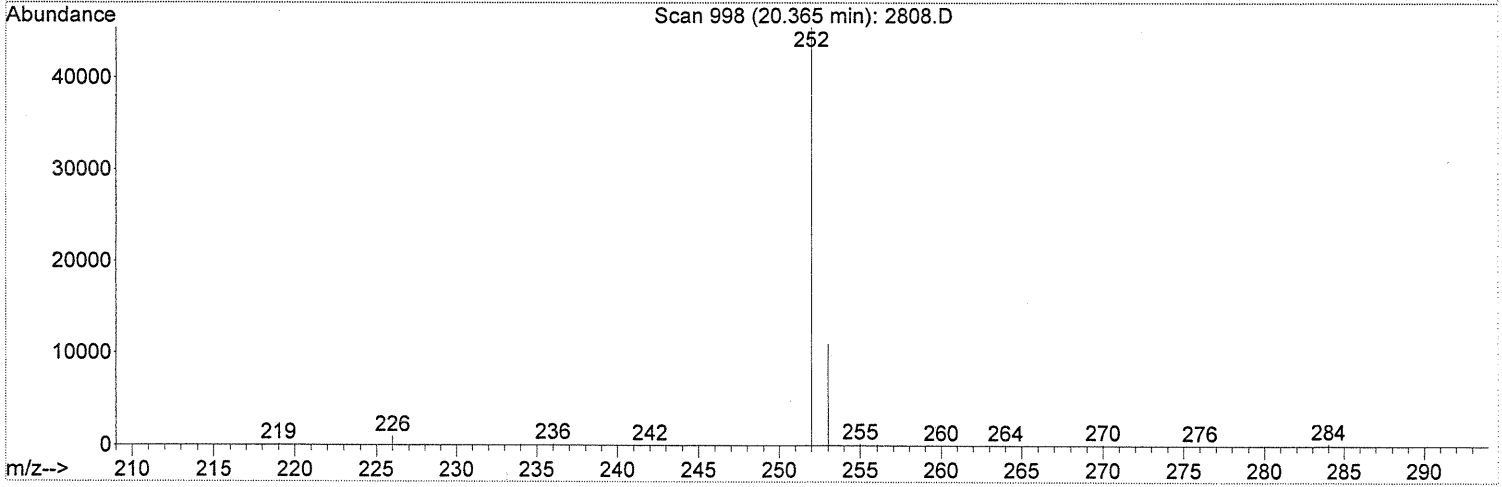
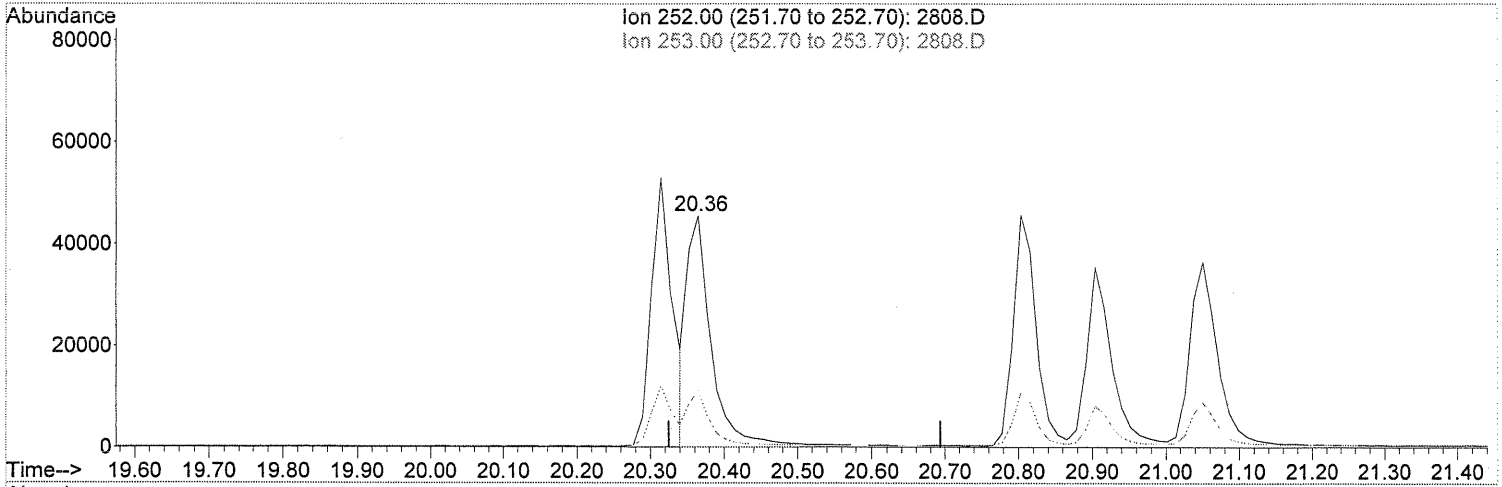
Ion	Exp%	Act%
252.00	100	0.00
253.00	22.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

*Before
 missed peak
 8/28/06*

Quantitation Report (Qedit)

Data Path : F:\Public\2006\08\SQA\Data\082806\
 Data File : 2808.D
 Acq On : 28 Aug 2006 15:32
 Operator : KWM
 Sample : STD 5 1000
 Misc : [SQA]
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 28 16:00:11 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Mon Aug 28 15:59:12 2006
 Response via : Initial Calibration



TIC: 2808.D

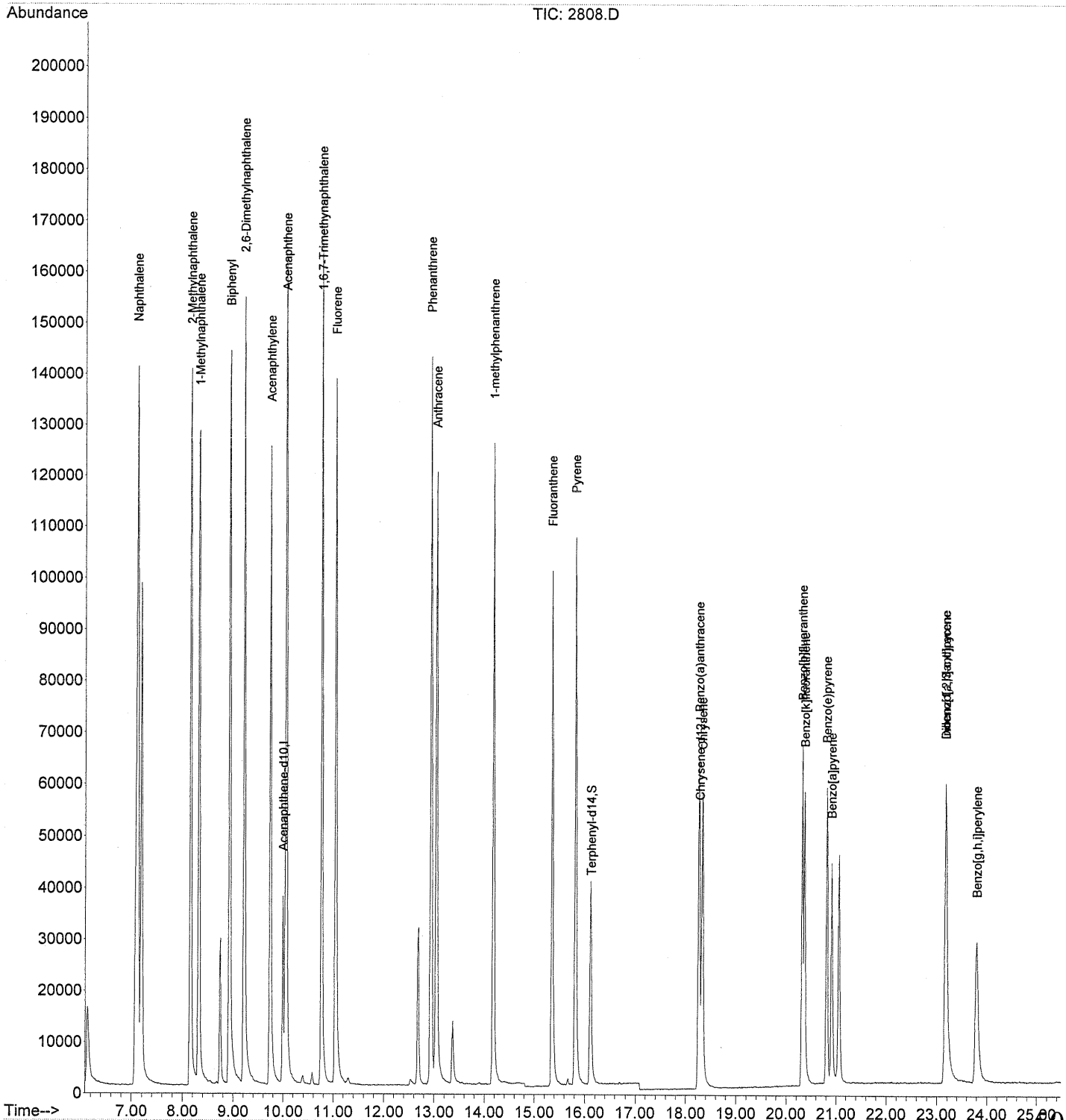
(21) Benzo[k]fluoranthene
 20.365min (-0.010) 1218.24ng/mL m
 response 104859

Ion	Exp%	Act%
252.00	100	100
253.00	22.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

AFM
8/28/06

Data Path : F:\Public\2006\08\SQA\Data\082806\
Data File : 2808.D
Acq On : 28 Aug 2006 15:32
Operator : KWM
Sample : STD 5 1000
Misc : [SQA]
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 28 16:04:52 2006
Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
Quant Title : SGS 8270C SIM
QLast Update : Mon Aug 28 15:59:12 2006
Response via : Initial Calibration



Data Path : F:\PUBLIC\2006\08\SQA\DATA\082806\
 Data File : 2809.D
 Acq On : 28 Aug 2006 16:04
 Operator : KWM
 Sample : STD 6 2000
 Misc : [SQA]
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 29 15:39:30 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Tue Aug 29 15:30:51 2006
 Response via : Initial Calibration

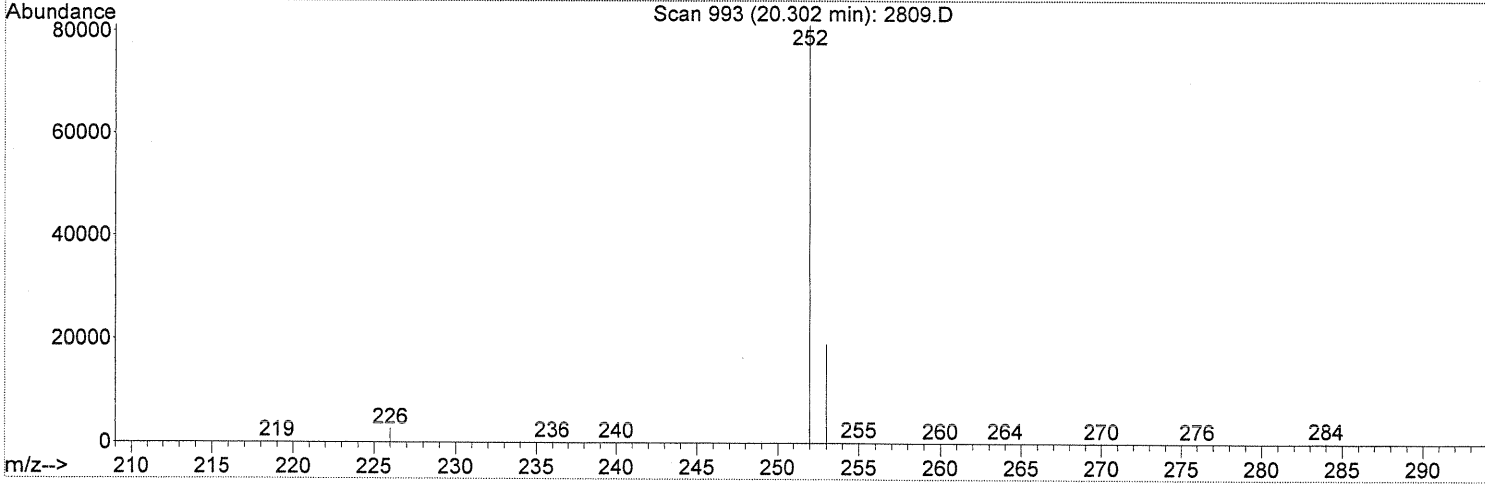
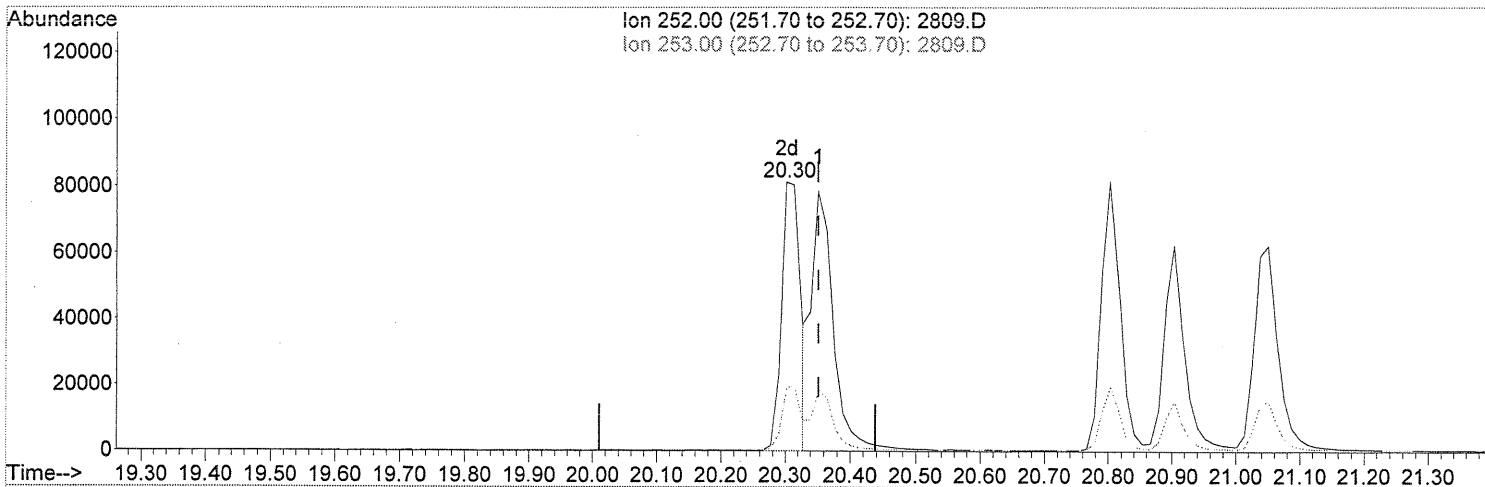
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Acenaphthene-d10	9.99	164	26930	500.00	ng/mL	-0.03
14) Chrysene-d12	18.27	240	22847	500.00	ng/mL	-0.04
System Monitoring Compounds						
17) Terphenyl-d14	16.11	244	101670	1888.83	ng/mL	-0.05
Spiked Amount	500.000		Recovery	=	377.77%	
Target Compounds						
						Qvalue
2) Naphthalene	7.11	128	433097	1739.25	ng/mL	98
3) 2-Methylnaphthalene	8.14	142	280575	1820.94	ng/mL	96
4) 1-Methylnaphthalene	8.31	142	234765	1635.28	ng/mL	99
5) 2,6-Dimethylnaphthalene	9.21	156	200439	1880.84	ng/mL#	82
6) 1,6,7-Trimethylnaphthalene	10.76	170	145388	1820.09	ng/mL#	65
7) Biphenyl	8.91	154	279595	1722.62	ng/mL	91
8) Acenaphthylene	9.74	152	403673	1765.00	ng/mL	95
9) Acenaphthene	10.05	154	222731	1809.45	ng/mL	87
10) Fluorene	11.04	166	254139	1872.62	ng/mL	83
11) Phenanthrene	12.93	178	311295	1809.87	ng/mL	100
12) Anthracene	13.03	178	303380	1854.31	ng/mL	99
13) 1-methylphenanthrene	14.18	192	205556	1886.39	ng/mL	100
15) Fluoranthene	15.34	202	320315	1828.86	ng/mL	95
16) Pyrene	15.81	202	325527	1795.27	ng/mL	97
18) Benzo (a) anthracene	18.25	228	185881	2054.89	ng/mL	97
19) Chrysene	18.32	228	182325	1727.97	ng/mL	100
20) Benzo [b] fluoranthene	20.30	252	168928m	1839.74	ng/mL	
21) Benzo [k] fluoranthene	20.35	252	175407m	1632.94	ng/mL	
22) Benzo (e) pyrene	20.80	252	164639	1834.16	ng/mL#	81
23) Benzo [a] pyrene	20.90	252	129359	1940.91	ng/mL	97
24) Indeno [1,2,3-c,d] pyrene	23.15	276	177965	1819.32	ng/mL	96
25) Dibenzo [a,h] anthracene	23.16	278	133978	1849.95	ng/mL#	87
26) Benzo [g,h,i] perylene	23.79	276	156610	1842.43	ng/mL#	89

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

Quantitation Report (Qedit)

Data Path : F:\PUBLIC\2006\08\SQA\DATA\082806\
 Data File : 2809.D
 Acq On : 28 Aug 2006 16:04
 Operator : KWM
 Sample : STD 6 2000
 Misc : [SQA]
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 29 15:39:00 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Tue Aug 29 15:30:51 2006
 Response via : Initial Calibration



TIC: 2809.D

(20) Benzo[b]fluoranthene

20.302min (-0.050) 1839.74ng/mL m

response 168928

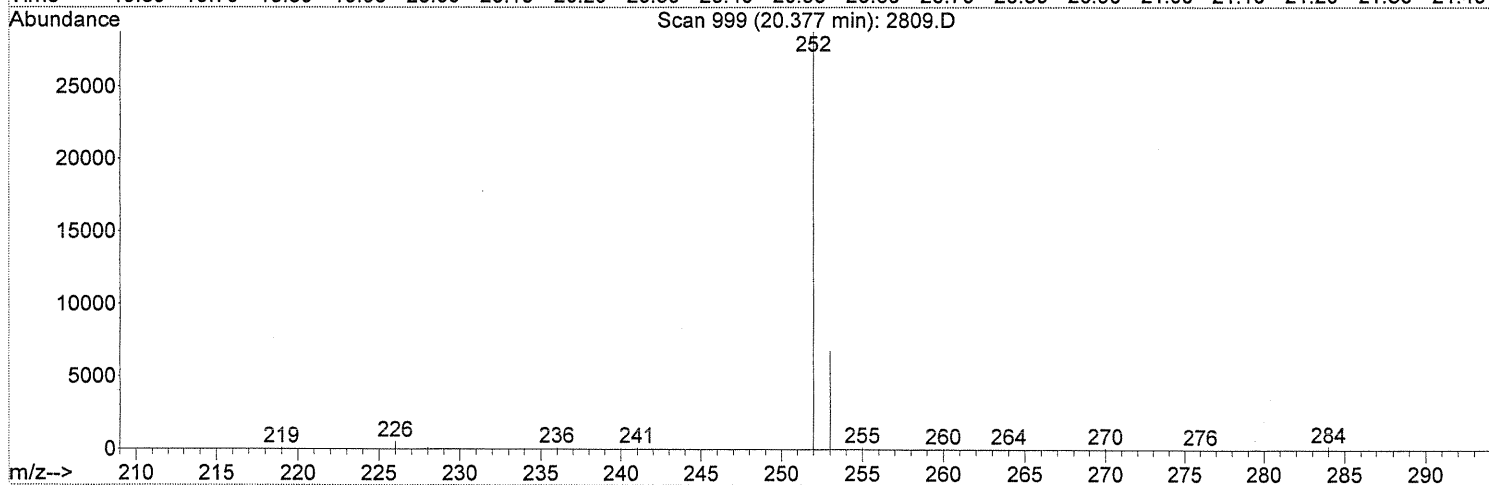
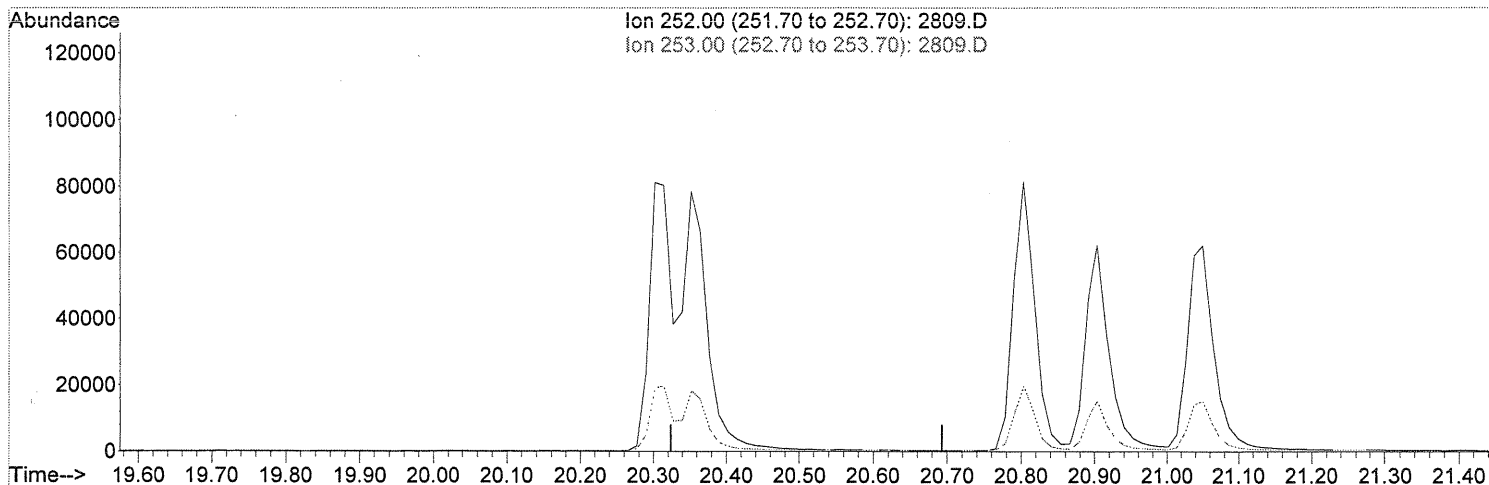
Ion	Exp%	Act%
252.00	100	100
253.00	41.50	15.19#
0.00	0.00	0.00
0.00	0.00	0.00

KWM
28/29/06

Quantitation Report (Qedit)

Data Path : F:\PUBLIC\2006\08\SQA\DATA\082806\
 Data File : 2809.D
 Acq On : 28 Aug 2006 16:04
 Operator : KWM
 Sample : STD 6 2000
 Misc : [SQA]
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 29 15:39:00 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Tue Aug 29 15:30:51 2006
 Response via : Initial Calibration



TIC: 2809.D

(21) Benzo[k]fluoranthene
 20.374min (-20.374) 0.00ng/mL
 response 0

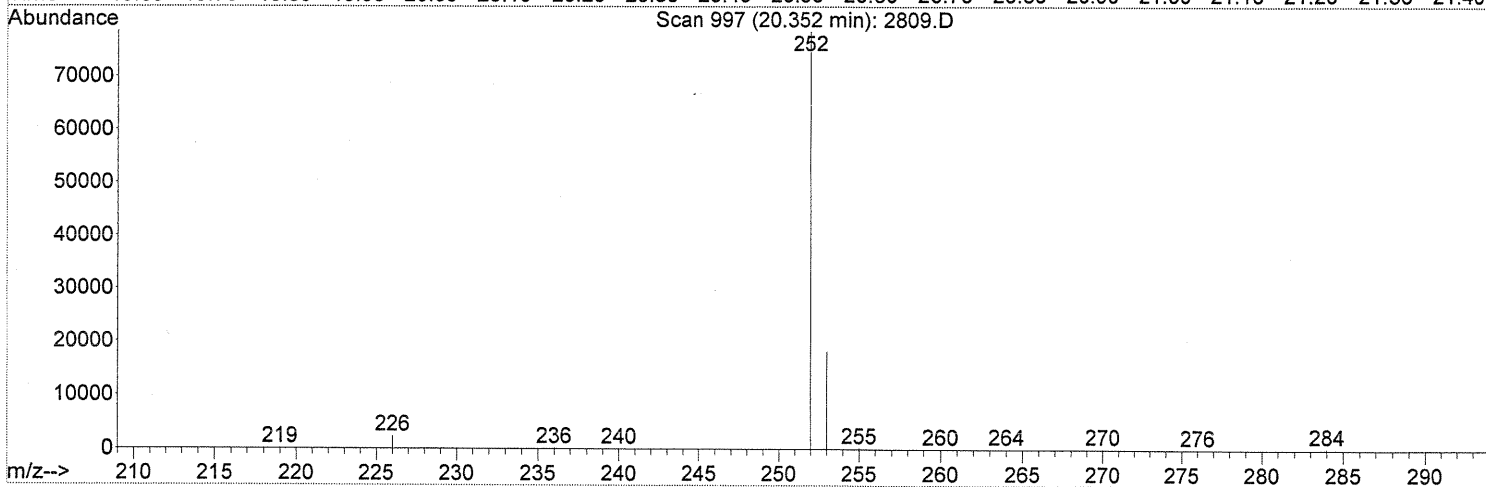
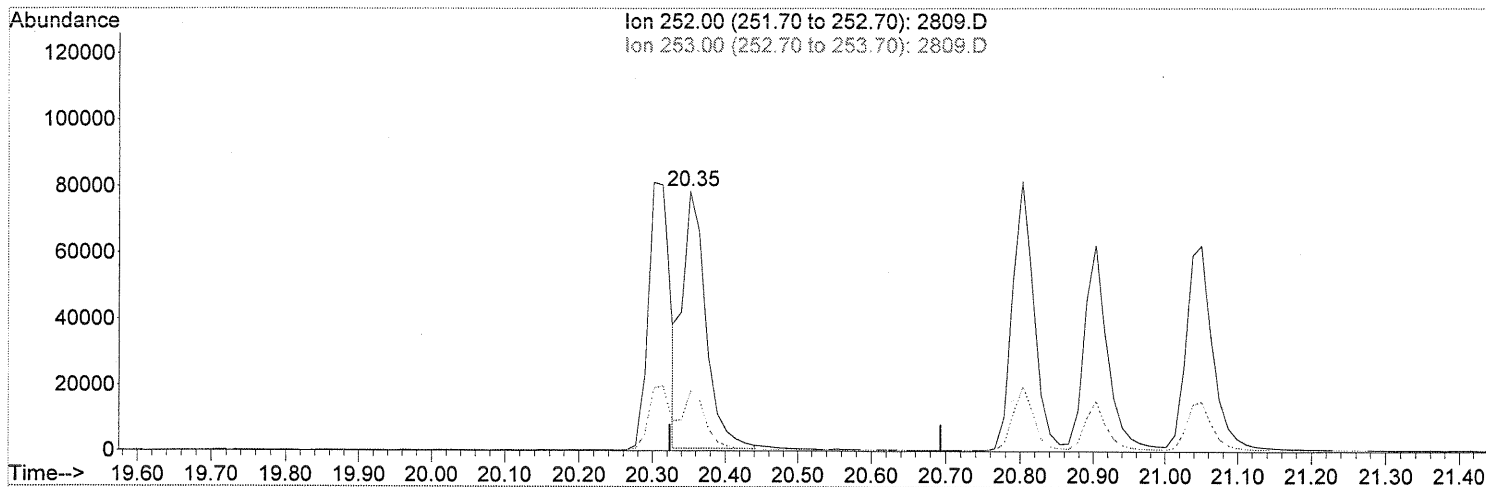
Ion	Exp%	Act%
252.00	100	0.00
253.00	22.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

*Before
 missed peak
 8/29/06*

Quantitation Report (Qedit)

Data Path : F:\PUBLIC\2006\08\SQA\DATA\082806\
 Data File : 2809.D
 Acq On : 28 Aug 2006 16:04
 Operator : KWM
 Sample : STD 6 2000
 Misc : [SQA]
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 29 15:39:00 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Tue Aug 29 15:30:51 2006
 Response via : Initial Calibration



TIC: 2809.D

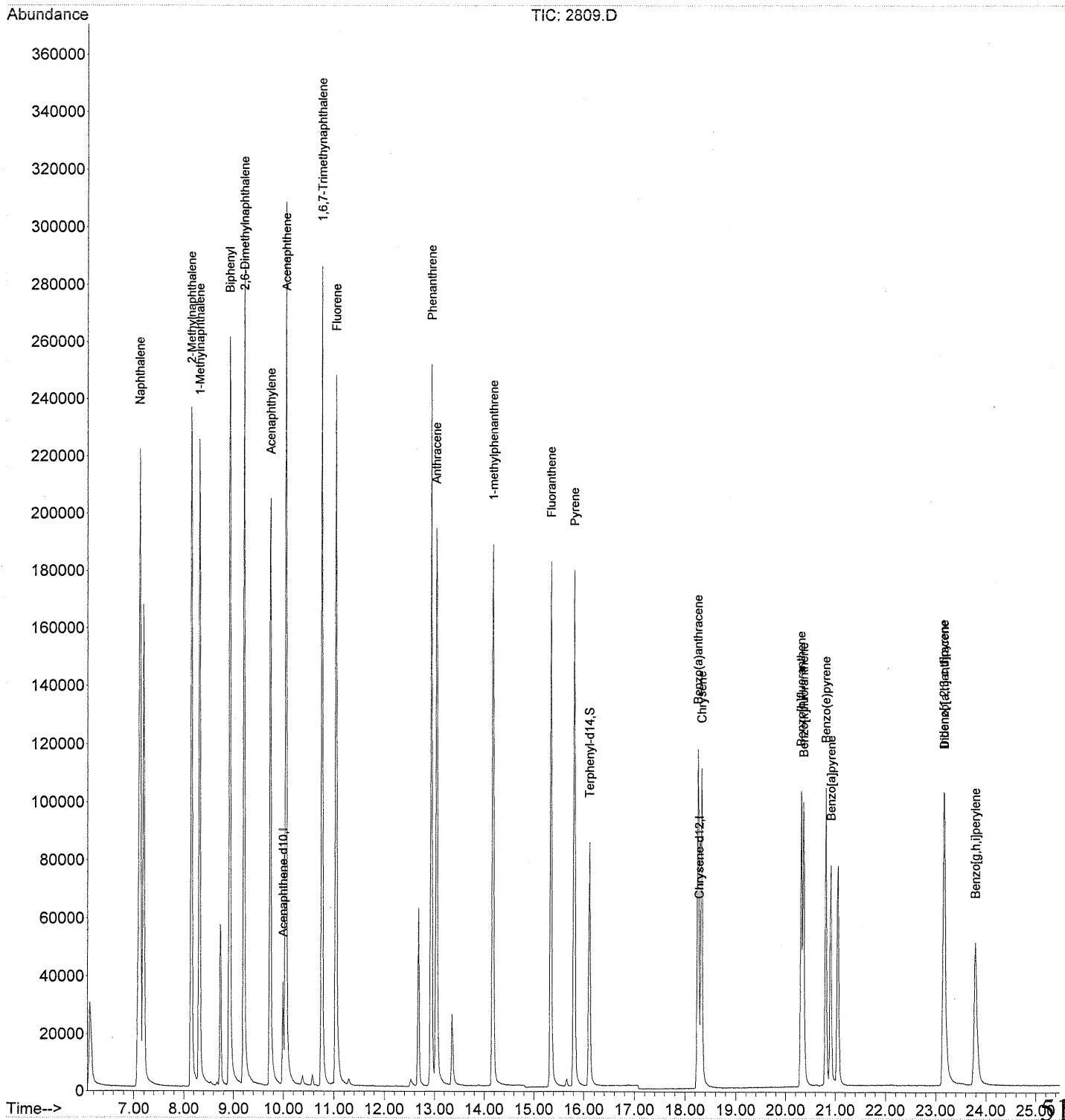
(21) Benzo[k]fluoranthene
 20.352min (-0.022) 1632.94ng/mL m
 response 175407

After
Ⓟ 8/28/06

Ion	Exp%	Act%
252.00	100	100
253.00	22.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : F:\PUBLIC\2006\08\SQA\DATA\082806\
 Data File : 2809.D
 Acq On : 28 Aug 2006 16:04
 Operator : KWM
 Sample : STD 6 2000
 Misc : [SQA]
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 29 15:39:30 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Tue Aug 29 15:30:51 2006
 Response via : Initial Calibration



Data Path : F:\PUBLIC\2006\08\SQA\DATA\082806\
 Data File : 2810.D
 Acq On : 28 Aug 2006 16:36
 Operator : KWM
 Sample : ICV
 Misc : [SQA]
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 29 15:40:27 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Tue Aug 29 15:40:07 2006
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Acenaphthene-d10	10.00	164	28322	500.00	ng/mL	-0.01
14) Chrysene-d12	18.28	240	21629	500.00	ng/mL	-0.02

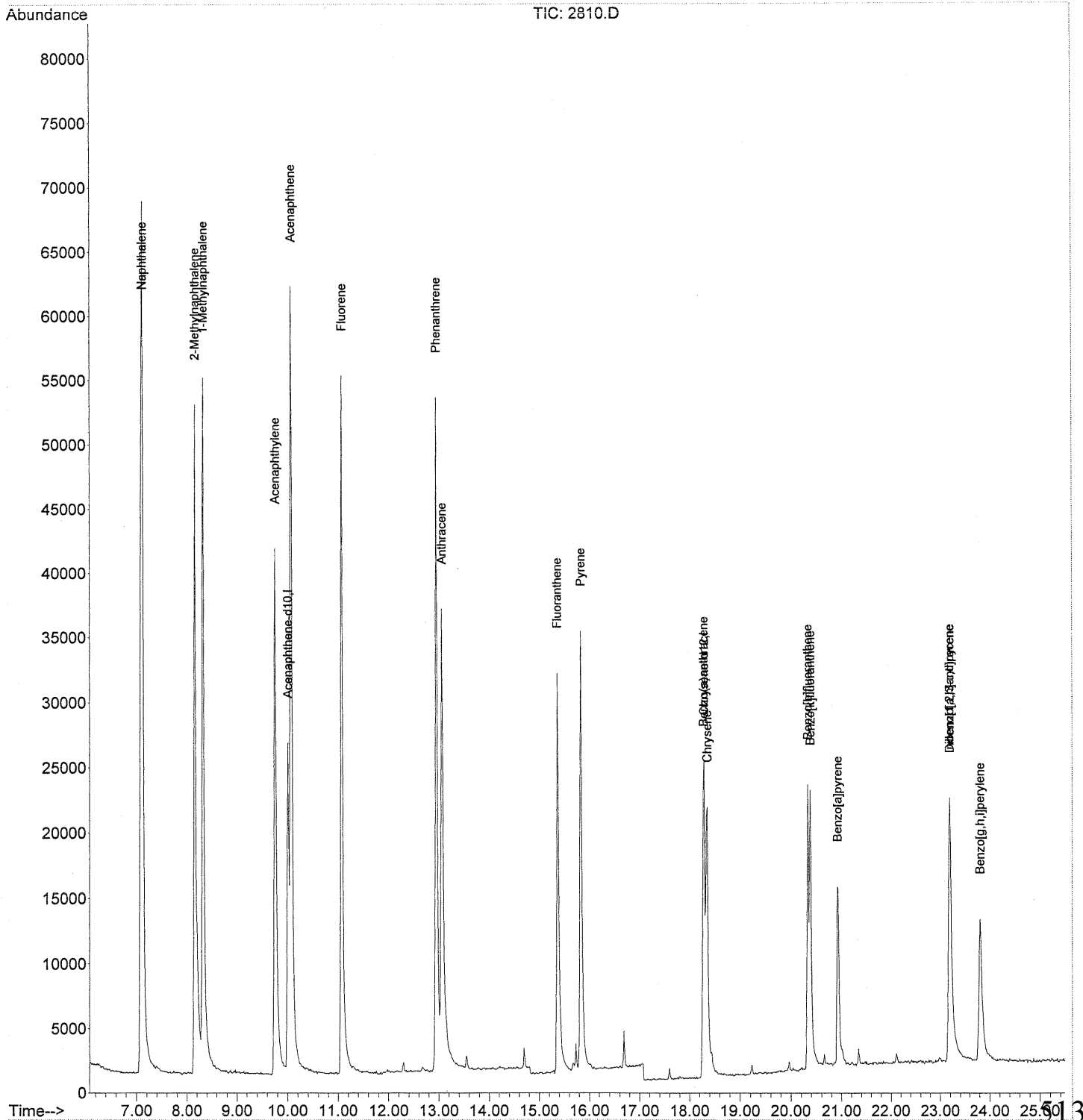
System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
17) Terphenyl-d14		16.19	244	11	0.21	ng/mL	0.03
Spiked Amount	500.000			Recovery	=	0.04%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Naphthalene	7.11	128	126233	475.03	ng/mL	98
3) 2-Methylnaphthalene	8.16	142	74168	449.49	ng/mL	99
4) 1-Methylnaphthalene	8.33	142	73323	482.24	ng/mL	98
8) Acenaphthylene	9.75	152	117683	480.34	ng/mL	99
9) Acenaphthene	10.06	154	61928	469.94	ng/mL	91
10) Fluorene	11.07	166	68574	469.51	ng/mL	87
11) Phenanthrene	12.95	178	85968	467.09	ng/mL	99
12) Anthracene	13.06	178	78274	456.82	ng/mL	100
15) Fluoranthene	15.36	202	79099	464.65	ng/mL	96
16) Pyrene	15.83	202	82476	468.51	ng/mL	94
18) Benzo(a)anthracene	18.27	228	39044	447.35	ng/mL	97
19) Chrysene	18.35	228	47477	468.03	ng/mL	98
20) Benzo[b]fluoranthene	20.33	252	38045	440.59	ng/mL#	68
21) Benzo[k]fluoranthene	20.38	252	47375	480.57	ng/mL	96
23) Benzo[a]pyrene	20.92	252	35881	562.75	ng/mL	96
24) Indeno[1,2,3-c,d]pyrene	23.19	276	44447	468.64	ng/mL	94
25) Dibenzo[a,h]anthracene	23.19	278	32381	461.51	ng/mL	89
26) Benzo[g,h,i]perylene	23.81	276	39147	475.54	ng/mL#	88

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

Data Path : F:\PUBLIC\2006\08\SQA\DATA\082806\
 Data File : 2810.D
 Acq On : 28 Aug 2006 16:36
 Operator : KWM
 Sample : ICV
 Misc : [SQA]
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 29 15:40:27 2006
 Quant Method : F:\PUBLIC\2006\06\SQA\METHOD\SIM_0828.M
 Quant Title : SGS 8270C SIM
 QLast Update : Tue Aug 29 15:40:07 2006
 Response via : Initial Calibration



Section 6.1

Section Contents:

SGS Work Order: 1064875

Section : 6 AK102

Diesel Range Organics, Alaska Dept. of Environment. Conserv.

Extraction Batch XXX17157

Analytical Batch: XFC7117

	<u>HSN</u>	<u>Client ID</u>
Batch Summary Page		
Client Sample	1064875001	06GAM05GS17
Method Blank	721622	
Laboratory Control Sample	721623	
Laboratory Control Sample Duplicate	721624	
Instrument Blank	722369	
Calibration Check Sample	722370	
Calibration Check Sample	722373	
Calibration Check Sample	722431	
Calibration Check Sample	722433	
Horizon Run Log		
Instrument Run Log		
Extraction Log		

Extraction Batch XXX17165

Analytical Batch: XFC7118

	<u>HSN</u>	<u>Client ID</u>
Batch Summary Page		
Client Sample	1064875003	06GAM05GS19
Client Sample	1064875004	06GAM05GS21
Client Sample	1064875005	06GAM05GS22
Client Sample	1064875006	06GAM05GS23
Client Sample	1064875007	06GAM05GS24
Client Sample	1064875008	06GAM05GS25
Method Blank	722000	
Laboratory Control Sample	722001	
Laboratory Control Sample Duplicate	722002	
Instrument Blank	722618	
Calibration Check Sample	722619	
Calibration Check Sample	722621	
Calibration Check Sample	722640	
Calibration Check Sample	722960	
Horizon Run Log		
Instrument Run Log		
Extraction Log		

* Reanalysis

SGS Environmental, Inc.

Analytical Quality Control Summary Data

Work Order(s):

1064196, 1064819, 1064842, 1064864, 1064875

Queue: XFC

Batch: 7117

Method:

AK102, AK102/103

Run Date:

08/23/06 11:06 - 08/23/06 16:17

Extraction Batch(es): XXX17157, XXX17169

QC Parameter	Goals Met?		
Calibration:	(Y)	N	N/A
Instrument/Method Blank:	(Y)	N	N/A
Initial/Continuing Calibration Verifications:	(Y)	N	N/A
Laboratory Control Sample:	(Y)	N	N/A
Laboratory Control Sample Duplicate:	(Y)	N	N/A
Relative Percent Difference:	(Y)	N	N/A
Sample Duplicate:	Y	N	(N/A)
Matrix Spike:	Y	(N)	N/A
Matrix Spike Duplicate:	Y	(N)	N/A
Relative Percent Difference:	(Y)	N	N/A
Surrogates:	(Y)	N	N/A
Sample Holding Time:	(Y)	N	N/A
Internal Standards	Y	N	(N/A)
GCMS Tuner/DDT Sample	Y	N	(N/A)

See case narrative/sample comments for further information : _____

Additional Notes:

final of partial batch

Is there any further action necessary for any out of control events described above? Y- N

Should a Corrective Action be initiated? Y N

I certify that except as specifically noted in this report, all statements and data appearing in this report are in conformance with the provisions of the Quality Assurance Plan (QAP) prepared by this firm and on file with the Alaska Department of Environmental Conservation.

Analyst's Signature: Jenni Excelesior Reviewer's Signature: Shawn Poston

Date: 8/24/06

Date: 8-24-06

Lab Report No.: 1064875 Date: 09/20/2006

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Project Name: 56016 Gambell FUDS		Analysis: Diesel Range Organics, Alaska Dept. of				
Project No: 05-013		Method: AK102				
		Prep Meth: SW3520C				
Field ID: 06GAM05GS17	Lab Samp ID: 1064875001					
Descr/Location: PWS	Rec'd Date: 08/21/2006					
Sample Date: 08/17/2006	Prep Date: 08/22/2006					
Sample Time: 1335	Analysis Date: 08/23/2006					
Matrix: Groundwater	QC Batch: XXX17157					
Basis: Not Filtered	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Diesel Range Organics	0.0600	0.300 PQL	J	0.0699	MG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
5a-Androstane		50-150 SMEA		91.1%		1
J: EPA Flag - Estimated value						

Approved by: _____

Date: _____ 516

QA/QC Report Method Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17157 Matrix: Water QC Lab Samp ID: 721622 Analysis Date: 08/23/2006 Basis: Not Filtered	Analysis: Diesel Range Organics, Alaska Dept. of Method: AK102 Prep Meth: SW3520C Prep Date: 08/22/2006 Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Diesel Range Organics	0.0600	0.300 PQL		ND	MG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
5a-Androstane		60-120 SMEA		87.6%		1

QA/QC Report
Blank Spike/Duplicate Blank Spike Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17157
 Matrix: Water QC
 Lab Samp ID: 721623

Analyte	Analysis Method	Spike Level		Spike Result		Units	% Recoveries			Acceptance Criteria	
		LCS	LCD	LCS	LCD		LCS	LCD	RPD	%Rec	RPD
Diesel Range Organics	AK102	1.	1.	0.943	0.874	MG/L	94.3	87.4	7.6	125-75 MEA	20MEP
5a-Androstane	AK102	100.	100.	92.6	86.2	PERCENT	92.6	86.2	7.2	120-60 SMEA	NA

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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<p>QC Batch: XXX17157 Matrix: Water QC Lab Samp ID: 722369 Analysis Date: 08/23/2006 Basis: Not Applicable</p>	<p>Analysis: Diesel Range Organics, Alaska Dept. of Method: AK102 Prep Meth: NONE Prep Date: 08/23/2006 Notes:</p>					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Diesel Range Organics	300.	300.	PQL	ND	MG/L	1

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17157 Matrix: Water QC Lab Samp ID: 722370						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Diesel Range Organics	AK102	1000.	1220.	MG/L	122	125-75 MECC

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17157 Matrix: Water QC Lab Samp ID: 722373						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Diesel Range Organics	AK102	1000.	1030.	MG/L	103	125-75 MECC

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17157						
Matrix: Water QC						
Lab Samp ID: 722431						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Diesel Range Organics	AK102	1000.	1180.	MG/L	118	125-75 MECC

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17157 Matrix: Water QC Lab Samp ID: 722433						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Diesel Range Organics	AK102	1000.	1220.	MG/L	122	125-75 MECC

B

SGS Alaska Division Peer Review Report - Horizon Run Log

Queue: XFC Batch: 7117 Create User: JE Run Date: 08/23/06 Printed: 24-Aug-06

Project	HSN	Type	Sample ID	CC Bottle Number	Matrix	Inst	Run Date/Time	Bench Dilution	Prep Batch	Seq
	722369	IB		OK	1	SDR	08/23/06 11:06	1	/	1
	722431	CCVB		OK	1	SDR	08/23/06 11:16	1	/	2
	722432	CCVR		OK	1	SDR	08/23/06 11:21	1	/	3
	721622	MB		OK	1	SDR	08/23/06 11:40	1	17157XXX	4
	721623	LCS		OK	1	SDR	08/23/06 11:44	1	17157XXX	5
	721624	LCSD		OK	1	SDR	08/23/06 11:50	1	17157XXX	6
1064819	1064819055	PS	East Pond	OK 1064819055-E	1 ✓	SDR	08/23/06 11:58	1 ✓	17157XXX	7
1064819	1064819056	PS	West Pond	OK 1064819056-E	1 ✓	SDR	08/23/06 12:03	1	17157XXX	8
1064819	1064819057	PS	West Pond Dup	OK 1064819057-E	1 ✓	SDR	08/23/06 12:08	1	17157XXX	9
1064842	1064842001	PS	BCP4-AP-4	OK 1064842001-C	1 ✓	SDR	08/23/06 12:18	1	17157XXX	10
1064842	1064842002	PS	BCP4-AP-28	OK 1064842002-D	1 ✓	SDR	08/23/06 12:23	1	17157XXX	11
1064842	1064842003	PS	BCP4-AP-27	OK 1064842003-D	1	SDR	08/23/06 12:28	1	17157XXX	12
1064842	1064842004	PS	BCP4-AP-14	OK 1064842004-D	1	SDR	08/23/06 12:38	1	17157XXX	13
1064842	1064842005	PS	BCP4-AP-24	OK 1064842005-D	1	SDR	08/23/06 12:43	1	17157XXX	14
1064842	1064842006	PS	BCP4-AP-31	OK 1064842006-D	1	SDR	08/23/06 12:48	1	17157XXX	15
1064842	1064842007	PS	BCP4-AP-31-02	OK 1064842007-D	1	SDR	08/23/06 12:58	1 ✓	17157XXX	16
	722433	CCVB		OK	1	SDR	08/23/06 13:03	1	/	17
	722434	CCVR		OK	1	SDR	08/23/06 13:08	1	/	18
1064842	1064842008	PS	BCP4-AP-30	OK 1064842008-D	1 ✓	SDR	08/23/06 13:23	1 ✓	17157XXX	19
1064842	1064842009	PS	BCP4-AP-20	OK 1064842009-C	1 ✓	SDR	08/23/06 13:28	1 ✓	17157XXX	20
1064842	1064842010	PS	BCP4-AP-25	OK 1064842010-D	1 ✓	SDR	08/23/06 13:38	1	17157XXX	21
1064842	1064842011	PS	BCP4-AP-26	OK 1064842011-D	1 ✓	SDR	08/23/06 13:43	1	17157XXX	22
1064842	1064842012	PS	BCP4-AP-3	OK 1064842012-G	1 ✓	SDR	08/23/06 13:48	1	17157XXX	23
1064842	1064842013	PS	BCP4-AP-3D	OK 1064842013-G	1 ✓	SDR	08/23/06 13:57	1	17157XXX	24
1064842	1064842014	PS	BCP4-AP-10	OK 1064842014-D	1 ✓	SDR	08/23/06 14:02	1	17157XXX	25
1064864	1064864001	PS	06COST01SW	OK 1064864001-G	1 ✓	SDR	08/23/06 14:07	1	17157XXX	26
1064864	1064864002	PS	06COST02SW	OK 1064864002-G	1 ✓	SDR	08/23/06 14:17	1	17157XXX	27
1064875	1064875001	PS	06GAM05GS17	OK 1064875001-H	1 ✓	SDR	08/23/06 14:22	1 ✓	17157XXX	28
	722370	CCVB		OK	1	SDR	08/23/06 14:27	1	/	29
	722371	CCVR		OK	1	SDR	08/23/06 14:32	1	/	30
	722081	MB		OK	2	SDR	08/23/06 15:33	1	17169XXX	31
	722082	LCS		OK	2	SDR	08/23/06 15:38	1	17169XXX	32
1064196	1064196001	PS	06FTW-SS-4-4	OK 1064196001-B	2 ✓	SDR	08/23/06 15:43	1 ✓	17169XXX	33
1064864	1064864008	PS	06SLOPE03SL	OK 1064864008-A	2 ✓	SDR	08/23/06 15:48	1 ✓	17169XXX	34
	722353	MS		OK	2	SDR	08/23/06 15:53	1	17169XXX	35
	722354	MSD		OK	2	SDR	08/23/06 15:58	1	17169XXX	36
	722372	CCVR		OK	1	SDR	08/23/06 16:07	1	/	37
	722373	CCVB		OK	1	SDR	08/23/06 16:17	1	/	38

Sample ID	Date Acquired	Init	Mult	Instr	Data File	Comments	Area C9
IB	8/23/2006 10:46:43 AM	MCM	1	SD	SDR07110823_001-Rep1.D...	46121	PEAK....
IB	8/23/2006 10:51:45 AM	MCM	1	SD	SDR07110823_001-Rep2.D...	46121	PEAK....
IB	8/23/2006 10:56:47 AM	MCM	1	SD	SDR07110823_001-Rep3.D...	46121	PEAK....
IB	8/23/2006 11:01:46 AM	MCM	1	SD	SDR07110823_001-Rep4.D...	46121	PEAK....
IB	8/23/2006 11:06:48 AM	MCM	1	SD	SDR07110823_001-Rep5.D...	46121	PEAK....
C10-C26,C28,C30...	8/23/2006 11:11:43 AM	MCM	1	SD	SDR07110823_002.DAT	SVW8-138-10	PEAK....
CCVB	8/23/2006 11:16:41 AM	MCM	1	SD	SDR07110823_003.DAT	SVW8-128-25	PEAK....
CCVR	8/23/2006 11:21:44 AM	MCM	1	SD	SDR07110823_004.DAT		PEAK....
IB	8/23/2006 11:30:06 AM	MCM	1	SD	SDR07110823_005.DAT		PEAK....
IB	8/23/2006 11:35:05 AM	MCM	1	SD	SDR07110823_006.DAT		PEAK....
721622 MB 17157	8/23/2006 11:40:02 AM	MCM	1	SD	SDR07110823_007.DAT		PEAK....
721623 LCS 17157	8/23/2006 11:44:59 AM	MCM	1	SD	SDR07110823_008.DAT		PEAK....
721624 LCSD 171...	8/23/2006 11:50:02 AM	MCM	1	SD	SDR07110823_009.DAT		PEAK....
1064819055 E	8/23/2006 11:58:52 AM	MCM	1	SD	SDR07110823_010.DAT		PEAK....
1064819056 E	8/23/2006 12:03:49 PM	MCM	1	SD	SDR07110823_011.DAT		PEAK....
1064819057 E	8/23/2006 12:08:49 PM	MCM	1	SD	SDR07110823_012.DAT		PEAK....
IB	8/23/2006 12:13:47 PM	MCM	1	SD	SDR07110823_013.DAT		PEAK....
1064842001 C	8/23/2006 12:18:45 PM	MCM	1	SD	SDR07110823_014.DAT		PEAK....
1064842002 D	8/23/2006 12:23:45 PM	MCM	1	SD	SDR07110823_015.DAT		PEAK....
1064842003 D	8/23/2006 12:28:40 PM	MCM	1	SD	SDR07110823_016.DAT		PEAK....
IB	8/23/2006 12:33:37 PM	MCM	1	SD	SDR07110823_017.DAT		PEAK....
1064842004 D	8/23/2006 12:38:35 PM	MCM	1	SD	SDR07110823_018.DAT		PEAK....
1064842005 D	8/23/2006 12:43:34 PM	MCM	1	SD	SDR07110823_019.DAT		PEAK....
1064842006 D	8/23/2006 12:48:33 PM	MCM	1	SD	SDR07110823_020.DAT		PEAK....
IB	8/23/2006 12:53:39 PM	MCM	1	SD	SDR07110823_021.DAT		PEAK....
1064842007 D	8/23/2006 12:58:33 PM	MCM	1	SD	SDR07110823_022.DAT		PEAK....
CCVB	8/23/2006 1:03:29 PM	MCM	1	SD	SDR07110823_023.DAT		PEAK....
CCVR	8/23/2006 1:08:28 PM	MCM	1	SD	SDR07110823_024.DAT		PEAK....
IB	8/23/2006 1:13:27 PM	MCM	1	SD	SDR07110823_025.DAT		PEAK....
IB	8/23/2006 1:18:22 PM	MCM	1	SD	SDR07110823_026.DAT		PEAK....
1064842008 D	8/23/2006 1:23:23 PM	MCM	1	SD	SDR07110823_027.DAT		PEAK....
1064842009 D	8/23/2006 1:28:20 PM	MCM	1	SD	SDR07110823_028.DAT		PEAK....
IB	8/23/2006 1:33:16 PM	MCM	1	SD	SDR07110823_029.DAT		PEAK....
1064842010 D	8/23/2006 1:38:16 PM	MCM	1	SD	SDR07110823_030.DAT		PEAK....
1064842011 D	8/23/2006 1:43:10 PM	MCM	1	SD	SDR07110823_031.DAT		PEAK....
1064842012 D	8/23/2006 1:48:03 PM	MCM	1	SD	SDR07110823_032.DAT		PEAK....
IB	8/23/2006 1:53:04 PM	MCM	1	SD	SDR07110823_033.DAT		PEAK....
1064842013 D	8/23/2006 1:57:59 PM	MCM	1	SD	SDR07110823_034.DAT		PEAK....
1064842014 D	8/23/2006 2:02:57 PM	MCM	1	SD	SDR07110823_035.DAT		PEAK....
1064864001 G	8/23/2006 2:07:56 PM	MCM	1	SD	SDR07110823_036.DAT		PEAK....
IB	8/23/2006 2:12:53 PM	MCM	1	SD	SDR07110823_037.DAT		PEAK....
1064864002 G	8/23/2006 2:17:50 PM	MCM	1	SD	SDR07110823_038.DAT		PEAK....
1064875001 H	8/23/2006 2:22:51 PM	MCM	1	SD	SDR07110823_039.DAT		PEAK....
CCVB	8/23/2006 2:27:47 PM	MCM	1	SD	SDR07110823_040.DAT		PEAK....
CCVR	8/23/2006 2:32:45 PM	MCM	1	SD	SDR07110823_041.DAT		PEAK....
IB	8/23/2006 2:37:42 PM	MCM	1	SD	SDR07110823_042.DAT		PEAK....
IB	8/23/2006 2:42:41 PM	MCM	1	SD	SDR07110823_043.DAT		PEAK....
722081 MB 17169	8/23/2006 3:33:18 PM	MCM	1	SD	SDR07110823_044.DAT		PEAK....
722082 LCS 17169	8/23/2006 3:38:15 PM	MCM	1	SD	SDR07110823_045.DAT		PEAK....
1064196001 B	8/23/2006 3:43:11 PM	MCM	1	SD	SDR07110823_046.DAT		PEAK....
1064864008	8/23/2006 3:48:08 PM	MCM	1	SD	SDR07110823_047.DAT		PEAK....
MS 17169	8/23/2006 3:53:09 PM	MCM	1	SD	SDR07110823_048.DAT		PEAK....

8/24/2006 1:29:18 PM

MSD 17169	8/23/2006 3:58:05 PM	MCM	1	SD	SDR07110823_049.DAT	PEAK....
CCVB	8/23/2006 4:02:59 PM	MCM	1	SD	SDR07110823_050.DAT	PEAK....
CCVR	8/23/2006 4:07:58 PM	MCM	1	SD	SDR07110823_051.DAT	PEAK....
IB	8/23/2006 4:12:52 PM	MCM	1	SD	SDR07110823_052.DAT	PEAK....
IB	8/23/2006 4:17:50 PM	MCM	1	SD	SDR07110823_053.DAT	PEAK....

8/23/06

Date: 8-23-06 Inst: SDR Operator: J.E. Batch: XFC 7117 Analysis: 102/103

SAMPLE ID	DF	Comments	Vials	Data File	Standard ID
IB			1	SDR07110823_001.DAT	46121
C10-C26,C28,C30,C32,C34,C36			2	SDR07110823_002.DAT	SVW8-146-1
CCVB 118			3	SDR07110823_003.DAT	SVW8-138-10
CCVR 102			4	SDR07110823_004.DAT	SVW8-128-25
IB			1	SDR07110823_005.DAT	
IB			1	SDR07110823_006.DAT	
721622 MB 17157 87/1102			1	SDR07110823_007.DAT	
721623 LCS 17157 93/111 94/97		unstable slim DR added drops	5	SDR07110823_008.DAT	
721624 LCSD 17157 86/110 87/104			6	SDR07110823_009.DAT	
1064819055 E ✓			7	SDR07110823_010.DAT	
1064819056 E ✓			8	SDR07110823_011.DAT	
1064819057 E ✓			9	SDR07110823_012.DAT	
IB			10	SDR07110823_013.DAT	
1064842001 C ✓			1	SDR07110823_014.DAT	
1064842002 D ✓			11	SDR07110823_015.DAT	
1064842003 D ✓			12	SDR07110823_016.DAT	
IB			13	SDR07110823_017.DAT	
1064842004 D ✓			1	SDR07110823_018.DAT	
1064842005 D ✓			14	SDR07110823_019.DAT	
1064842006 D ✓			15	SDR07110823_020.DAT	
IB			16	SDR07110823_021.DAT	
1064842007 D ✓			1	SDR07110823_022.DAT	
CCVB 122			17	SDR07110823_023.DAT	
CCVR 104			3	SDR07110823_024.DAT	
IB			4	SDR07110823_025.DAT	
IB			1	SDR07110823_026.DAT	
1064842008 D ✓			1	SDR07110823_027.DAT	
1064842009 D ✓			18	SDR07110823_028.DAT	
IB			19	SDR07110823_029.DAT	
1064842010 D ✓			1	SDR07110823_030.DAT	
1064842011 D ✓			20	SDR07110823_031.DAT	
1064842012 D ✓		glycol	21	SDR07110823_032.DAT	
IB			22	SDR07110823_033.DAT	
1064842013 D ✓			1	SDR07110823_034.DAT	
1064842014 D ✓		glycol	23	SDR07110823_035.DAT	
1064864001 G ✓			24	SDR07110823_036.DAT	
IB			25	SDR07110823_037.DAT	
1064864002 G ✓			1	SDR07110823_038.DAT	
1064875001 H ✓			26	SDR07110823_039.DAT	
CCVB 122			27	SDR07110823_040.DAT	
CCVR 107			3	SDR07110823_041.DAT	
IB			4	SDR07110823_042.DAT	
IB			1	SDR07110823_043.DAT	
722081 MB 17169 94/102			1	SDR07110823_044.DAT	
722082 LCS 17169 91/83 92/97		PRO 305	28	SDR07110823_045.DAT	
1064196001 B ✓			29	SDR07110823_046.DAT	
1064864008 ✓			30	SDR07110823_047.DAT	
MS 17169 ✓			31	SDR07110823_048.DAT	
MSD 17169 ✓			32	SDR07110823_049.DAT	
CCVB 128 rr			33	SDR07110823_050.DAT	
CCVR 112			3	SDR07110823_051.DAT	
IB			4		
CCVB 103					

un



Horizon Batch #: 17157

Extraction Bench Sheet

	ID	Amount Added (ml)	Conc.
Surrogates:	SWWP-MS-1	1ml	100ug/ml
Martix Spikes:	SWSP-79-4	1ml	100ug/ml

Reagent Lot # Na2SO4 PW1-37-4
1ml pipette 51959

Solvent Lot No. Used: CH2Cl2 (0591/45277)
TV Temperature: 480

Extraction Method: 3520/162+3
 Extraction Start Date/Time: 8/22/06 10:10
 Extraction Finish Date/Time: 8/22/06 11:16
 Extr. Technician: RM, JDS
 Spike Witness: RM^s, JDS^w
 Posted By / Date: JCS 8/22/06
 Batch Released By: _____

#	Workorder No.	Initial Wt./ Vol. (gm / mL)	Final Volume (ml)	Continued Extraction for 4 hrs	(pH, sonication level, sample and/or extract description)	Comments
1	Method Blank	1000	1ml		721622	pH=2
2	LCS	↓			↓ 3	
3	LCS D	↓			↓ 4	
4	4819-55 E	1000				
5	-56	965				
6	-57	1000				
7	4842-1 C	↓				
8	-2 D	980				
9	-3	1000				
10	-4					
11	-5					
12	-6					
13	-7					
14	-8					
15	-9					
16	-10					
17	-11					
18	-12					
19	-13	840				
20	4864-1 G	960				
21	-2	930				
22	4875-1 H	1000				
23	4842-14 D	1000				
24						
25						

NOTES:

JCS 9/5/06

SGS Environmental, Inc.

Analytical Quality Control Summary Data

Work Order(s): III ✓
 1064852, 1064875, 1064903, 1064905 ✓

Queue: XFC Batch: 7118
 Method: AK102, AK102/103

Run Date: 08/24/06 09:06 - 08/24/06 16:56

Extraction Batch(es): XXX17165, XXX17173 ✓

QC Parameter	Goals Met?		
Calibration:	(Y)	N	N/A
Instrument/Method Blank:	(Y)	N	N/A
Initial/Continuing Calibration Verifications:	(Y)	N	N/A
Laboratory Control Sample:	Y	(N)	N/A
Laboratory Control Sample Duplicate:	Y	N	(N/A)
Relative Percent Difference:	Y	N	(N/A)
Sample Duplicate:	Y	N	(N/A)
Matrix Spike:	Y	(N)	N/A
Matrix Spike Duplicate:	Y	(N)	N/A
Relative Percent Difference:	Y	(N)	N/A
Surrogates:	(Y)	N	N/A
Sample Holding Time:	(Y)	N	N/A
Internal Standards	Y	N	(N/A)
GCMS Tuner/DDT Sample	Y	N	(N/A)

See case narrative/sample comments for further information : _____

Additional Notes:

final of partial batch

Is there any further action necessary for any out of control events described above? Y N

Should a Corrective Action be initiated? Y N

I certify that except as specifically noted in this report, all statements and data appearing in this report are in conformance with the provisions of the Quality Assurance Plan (QAP) prepared by this firm and on file with the Alaska Department of Environmental Conservation.

Analyst's Signature: Jennifer Encelowski Reviewer's Signature: Sharon Poston

Date: 8/26/06

Date: 8-28-06

Lab Report No.: 1064875 Date: 09/20/2006

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Project Name: 56016 Gambell FUDS		Analysis: Diesel Range Organics, Alaska Dept. of				
Project No: 05-013		Method: AK102				
		Prep Meth: SW3520C				
Field ID: 06GAM05GS19	Lab Samp ID: 1064875003					
Descr/Location: MW-30	Rec'd Date: 08/21/2006					
Sample Date: 08/16/2006	Prep Date: 08/23/2006					
Sample Time: 1230	Analysis Date: 08/24/2006					
Matrix: Groundwater	QC Batch: XXX17165					
Basis: Not Filtered	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Diesel Range Organics	0.0600	0.300 PQL		0.495	MG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
5a-Androstane		50-150 SMEA		92.2%		1

Approved by: _____

Date: _____ 530

Lab Report No.: 1064875 Date: 09/20/2006

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Project Name: 56016 Gambell FUDS		Analysis: Diesel Range Organics, Alaska Dept. of				
Project No: 05-013		Method: AK102				
		Prep Meth: SW3520C				
Field ID: 06GAM05GS21	Lab Samp ID: 1064875004					
Descr/Location: MW-30	Rec'd Date: 08/21/2006					
Sample Date: 08/16/2006	Prep Date: 08/23/2006					
Sample Time: 1150	Analysis Date: 08/24/2006					
Matrix: Groundwater	QC Batch: XXX17165					
Basis: Not Filtered	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Diesel Range Organics	0.0600	0.300 PQL		0.736	MG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
5a-Androstane		50-150 SMEA		80.0%		1

Approved by: _____

Date: _____ 531

Lab Report No.: 1064875 Date: 09/20/2006

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Project Name: 56016 Gambell FUDS		Analysis: Diesel Range Organics, Alaska Dept. of				
Project No: 05-013		Method: AK102				
		Prep Meth: SW3520C				
Field ID: 06GAM05GS22	Lab Samp ID: 1064875005					
Descr/Location: MW-14	Rec'd Date: 08/21/2006					
Sample Date: 08/16/2006	Prep Date: 08/23/2006					
Sample Time: 1445	Analysis Date: 08/24/2006					
Matrix: Groundwater	QC Batch: XXX17165					
Basis: Not Filtered	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Diesel Range Organics	0.0600	0.300 PQL		ND	MG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
5a-Androstane		50-150 SMEA		85.2%		1

Approved by: _____

Date: _____ 532

Lab Report No.: 1064875 Date: 09/20/2006

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Project Name: 56016 Gambell FUDS		Analysis: Diesel Range Organics, Alaska Dept. of				
Project No: 05-013		Method: AK102				
		Prep Meth: SW3520C				
Field ID: 06GAM05GS23	Lab Samp ID: 1064875006					
Descr/Location: MW-15	Rec'd Date: 08/21/2006					
Sample Date: 08/16/2006	Prep Date: 08/23/2006					
Sample Time: 1550	Analysis Date: 08/24/2006					
Matrix: Groundwater	QC Batch: XXX17165					
Basis: Not Filtered	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Diesel Range Organics	0.0600	0.300 PQL		ND	MG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
5a-Androstane		50-150 SMEA		76.0%		1

Approved by: _____

Date: _____ 533

Lab Report No.: 1064875 Date: 09/20/2006

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Project Name: 56016 Gambell FUDS		Analysis: Diesel Range Organics, Alaska Dept. of				
Project No: 05-013		Method: AK102				
		Prep Meth: SW3520C				
Field ID: 06GAM05GS24	Lab Samp ID: 1064875007					
Descr/Location: MW-32	Rec'd Date: 08/21/2006					
Sample Date: 08/16/2006	Prep Date: 08/23/2006					
Sample Time: 1700	Analysis Date: 08/24/2006					
Matrix: Groundwater	QC Batch: XXX17165					
Basis: Not Filtered	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Diesel Range Organics	0.0600	0.300 PQL		ND	MG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
5a-Androstane		50-150 SMEA		83.1%		1

Approved by: _____

Date: _____ 534

Lab Report No.: 1064875 Date: 09/20/2006

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Project Name: 56016 Gambell FUDS		Analysis: Diesel Range Organics, Alaska Dept. of				
Project No: 05-013		Method: AK102				
		Prep Meth: SW3520C				
Field ID: 06GAM05GS25	Lab Samp ID: 1064875008					
Descr/Location: MW-29	Rec'd Date: 08/21/2006					
Sample Date: 08/16/2006	Prep Date: 08/23/2006					
Sample Time: 1830	Analysis Date: 08/24/2006					
Matrix: Groundwater	QC Batch: XXX17165					
Basis: Not Filtered	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Diesel Range Organics	0.0600	0.300 PQL		ND	MG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
5a-Androstane		50-150 SMEA		78.8%		1

Approved by: _____

Date: _____ 535

QA/QC Report Method Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17165 Matrix: Water QC Lab Samp ID: 722000 Analysis Date: 08/24/2006 Basis: Not Filtered	Analysis: Diesel Range Organics, Alaska Dept. of Method: AK102 Prep Meth: SW3520C Prep Date: 08/23/2006 Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Diesel Range Organics	0.0600	0.300	PQL	ND	MG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
5a-Androstane		60-120	SMEA	85.8%		1

QA/QC Report
Blank Spike/Duplicate Blank Spike Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17165 Matrix: Water QC Lab Samp ID: 722001												
Analyte	Analysis Method	Spike Level		Spike Result		Units	% Recoveries			Acceptance Criteria		
		LCS	LCD	LCS	LCD		LCS	LCD	RPD	%Rec	RPD	
Diesel Range Organics	AK102	1.	1.	0.806	0.818	MG/L	80.6	81.8	1.5	125-75	MEA	20MEP
5a-Androstane	AK102	100.	100.	77.7	75.8	PERCENT	77.7	75.8	2.5	120-60	SMEA	NA

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17165	Analysis: Diesel Range Organics, Alaska Dept. of
Matrix: Water QC	Method: AK102
Lab Samp ID: 722618	Prep Meth: NONE
Analysis Date: 08/24/2006	Prep Date: 08/24/2006
Basis: Not Applicable	Notes:

Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Diesel Range Organics	300.	300.	PQL	ND	MG/L	1

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17165 Matrix: Water QC Lab Samp ID: 722619						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Diesel Range Organics	AK102	1000.	970.	MG/L	97.0	125-75 MECC

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17165 Matrix: Water QC Lab Samp ID: 722621						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Diesel Range Organics	AK102	1000.	995.	MG/L	99.5	125-75 MECC

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17165 Matrix: Water QC Lab Samp ID: 722640						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Diesel Range Organics	AK102	1000.	986.	MG/L	98.6	125-75 MECC

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17165						
Matrix: Water QC						
Lab Samp ID: 722960						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Diesel Range Organics	AK102	1000.	1040.	MG/L	104	125-75 MECC

SGS Alaska Division Peer Review Report - Horizon Run Log

Queue: XFC Batch: 7118 Create User: JE Run Date: 08/24/06 Printed: 26-Aug-06

Project	HSN	Type	Sample ID	CC Bottle Number	Matrix	Inst	Run Date/Time	Bench Dilution	Prep Batch	Seq
	722618	IB		OK	1	SAF	08/24/06 09:06	1		1
	722960	CCVB		OK	1	SAF	08/24/06 09:15	1		2
	722961	CCVR		OK	1	SAF	08/24/06 09:19	1		3
	722000	MB		OK	1	SAF	08/24/06 09:31	1	17165XXX	4
	722001	LCS		OK	1	SAF	08/24/06 09:35	1	17165XXX	5
	722002	LCSD		OK	1	SAF	08/24/06 09:40	1	17165XXX	6
1064852	1064852049	PS	ADPSW01	OK 1064852049-C	1 ✓	SAF	08/24/06 12:15 ✓	1	17165XXX	7
1064852	1064852050	BMS	ADPSW01 MS	OK 1064852050-C	1 ✓	SAF	08/24/06 12:20	1	17165XXX	8
1064852	1064852051	BMSD	ADPSW01 MSD	OK 1064852051-C	1 ✓	SAF	08/24/06 12:24	1	17165XXX	9
1064852	1064852052	PS	ADPSW02	OK 1064852052-D	1 ✓	SAF	08/24/06 12:28	1	17165XXX	10
1064852	1064852053	PS	ADPSW02 Dup	OK 1064852053-D	1 ✓	SAF	08/24/06 12:32	1	17165XXX	11
1064852	1064852054	PS	ADPSW03	OK 1064852054-D	1 ✓	SAF	08/24/06 12:41	1	17165XXX	12
1064852	1064852055	PS	ADPSW05	OK 1064852055-D	1 ✓	SAF	08/24/06 12:45	1	17165XXX	13
1064852	1064852056	PS	ADPSW07	OK 1064852056-A	1 ✓	SAF	08/24/06 12:49	1	17165XXX	14
1064875	1064875003	PS	06GAM05GS19	OK 1064875003-H	1 ✓	SAF	08/24/06 12:57	1	17165XXX	15
1064875	1064875004	PS	06GAM05GS21	OK 1064875004-H	1	SAF	08/24/06 13:01	1	17165XXX	16
1064875	1064875005	PS	06GAM05GS22	OK 1064875005-H	1	SAF	08/24/06 13:06 ✓	1	17165XXX	17
	722619	CCVB		OK	1	SAF	08/24/06 13:10	1		18
	722620	CCVR		OK	1	SAF	08/24/06 13:14	1		19
1064875	1064875006	PS	06GAM05GS23	OK 1064875006-H	1	SAF	08/24/06 13:27	1	17165XXX	20
1064875	1064875007	PS	06GAM05GS24	OK 1064875007-H	1	SAF	08/24/06 13:31	1	17165XXX	21
1064875	1064875008	PS	06GAM05GS25	OK 1064875008-H	1 ✓	SAF	08/24/06 13:35	1	17165XXX	22
1064905	1064905001	PS	CDA6220-01	OK 1064905001-A	1 ✓	SAF	08/24/06 13:43	1	17165XXX	23
1064905	1064905002	PS	CDA6220-02	OK 1064905002-A	1 ✓	SAF	08/24/06 13:48	1	17165XXX	24
1064905	1064905003	PS	CDA6220-03	OK 1064905003-A	1 ✓	SAF	08/24/06 14:12	1	17165XXX	25
	722411	MB		OK	2	SAF	08/24/06 14:28	1	17173XXX	26
	722412	LCS		OK	2	SAF	08/24/06 14:33	1	17173XXX	27
1064903	1064903001	PS	06NTHW14S0	RP 1064903001-C	2 ✓	SAF	08/24/06 15:53	1	17173XXX	28
1064903	1064903002	PS	06NTHW15S0	RP 1064903002-C	2	SAF	08/24/06 15:57	1	17173XXX	29
1064903	1064903003	PS	06NTHW16S0	RP 1064903003-C	2	SAF	08/24/06 16:01	1	17173XXX	30
	722621	CCVB		OK	1	SAF	08/24/06 16:05	1		31
	722622	CCVR		OK	1	SAF	08/24/06 16:10	1		32
1064903	1064903004	PS	06NTHW17S0	RP 1064903004-C	2	SAF	08/24/06 16:22 ✓	1	17173XXX	33
1064903	1064903005	PS	06NTHW18S0	RP 1064903005-C	2	SAF	08/24/06 16:26	1	17173XXX	34
1064903	1064903006	PS	06NTHW19S0	RP 1064903006-B	2 ✓	SAF	08/24/06 16:31 ✓	1	17173XXX	35
	722495	MS		RP	2	SAF	08/24/06 16:39	1	17173XXX	36
1064903	1064903007	BMS	06NTHW19S0 MS	RP 1064903007-B	2 ✓	SAF	08/24/06 16:39 ✓	1	17173XXX	37
	722496	MSD		RP	2	SAF	08/24/06 16:43	1	17173XXX	38
1064903	1064903008	BMSD	06NTHW19S0 MSD	RP 1064903008-B	2 ✓	SAF	08/24/06 16:43 ✓	1	17173XXX	39
1064903	1064903009	PS	06NTHW19S0	RP 1064903009-C	2 ✓	SAF	08/24/06 16:48 ✓	1	17173XXX	40
	722640	CCVB		OK	1	SAF	08/24/06 16:52	1		41
	722641	CCVR		OK	1	SAF	08/24/06 16:56	1		42

Sample ID	Date Acquired	Init	Mult	Instr	Data File	Comments	Area C9
IB	8/24/2006 8:49:57 AM	MCM	1	SA	SAF07190824_001-Rep1.DAT	45277	47316
IB	8/24/2006 8:54:03 AM	MCM	1	SA	SAF07190824_001-Rep2.DAT	45277	1129
IB	8/24/2006 8:58:21 AM	MCM	1	SA	SAF07190824_001-Rep3.DAT	45277	1728
IB	8/24/2006 9:02:30 AM	MCM	1	SA	SAF07190824_001-Rep4.DAT	45277	1116
IB	8/24/2006 9:06:54 AM	MCM	1	SA	SAF07190824_001-Rep5.DAT	45277	1187
C10-C26, C28,C3...	8/24/2006 9:11:02 AM	MCM	1	SA	SAF07190824_002.DAT	SVW8-146-1	121464
CCVB	8/24/2006 9:15:09 AM	MCM	1	SA	SAF07190824_003.DAT	SVW8-138-11	0
CCVR	8/24/2006 9:19:13 AM	MCM	1	SA	SAF07190824_004.DAT	SVW8-128-27	0
IB	8/24/2006 9:23:17 AM	MCM	1	SA	SAF07190824_005.DAT		0
IB	8/24/2006 9:27:27 AM	MCM	1	SA	SAF07190824_006.DAT		366
722000 MB 17165	8/24/2006 9:31:51 AM	MCM	1	SA	SAF07190824_007.DAT		36375
722001 LCS 17165	8/24/2006 9:35:57 AM	MCM	1	SA	SAF07190824_008.DAT		32934
722002 LCSD 171...	8/24/2006 9:40:27 AM	MCM	1	SA	SAF07190824_009.DAT		32167
1064852049 C	8/24/2006 12:15:43 PM	MCM	1	SA	SAF07190824_010.DAT		52350
1064852050 C BMS	8/24/2006 12:20:05 PM	MCM	1	SA	SAF07190824_011.DAT		38401
1064852051 C BM...	8/24/2006 12:24:30 PM	MCM	1	SA	SAF07190824_012.DAT		39920
1064852052 D	8/24/2006 12:28:37 PM	MCM	1	SA	SAF07190824_013.DAT		40952
1064852053 D	8/24/2006 12:32:43 PM	MCM	1	SA	SAF07190824_014.DAT		39946
IB	8/24/2006 12:37:08 PM	MCM	1	SA	SAF07190824_015.DAT		221
1064852054 D	8/24/2006 12:41:14 PM	MCM	1	SA	SAF07190824_016.DAT		42843
1064852055 D	8/24/2006 12:45:20 PM	MCM	1	SA	SAF07190824_017.DAT		37958
1064852056 A	8/24/2006 12:49:28 PM	MCM	1	SA	SAF07190824_018.DAT		41188
IB	8/24/2006 12:53:36 PM	MCM	1	SA	SAF07190824_019.DAT		360
1064875003 H	8/24/2006 12:57:48 PM	MCM	1	SA	SAF07190824_020.DAT		39121
1064875004 H	8/24/2006 1:01:53 PM	MCM	1	SA	SAF07190824_021.DAT		33924
1064875005 H	8/24/2006 1:06:15 PM	MCM	1	SA	SAF07190824_022.DAT		36137
CCVB	8/24/2006 1:10:40 PM	MCM	1	SA	SAF07190824_023.DAT		24826
CCVR	8/24/2006 1:14:45 PM	MCM	1	SA	SAF07190824_024.DAT		0
IB	8/24/2006 1:18:52 PM	MCM	1	SA	SAF07190824_025.DAT		0
IB	8/24/2006 1:23:02 PM	MCM	1	SA	SAF07190824_026.DAT		1004
1064875006 H	8/24/2006 1:27:03 PM	MCM	1	SA	SAF07190824_027.DAT		32240
1064875007 H	8/24/2006 1:31:28 PM	MCM	1	SA	SAF07190824_028.DAT		35227
1064875008 H	8/24/2006 1:35:36 PM	MCM	1	SA	SAF07190824_029.DAT		33434
IB	8/24/2006 1:39:44 PM	MCM	1	SA	SAF07190824_030.DAT		1129
1064905001 A	8/24/2006 1:43:49 PM	MCM	1	SA	SAF07190824_031.DAT		39277
1064905002 A	8/24/2006 1:48:13 PM	MCM	1	SA	SAF07190824_032.DAT		44016
1064905003 A	8/24/2006 2:12:01 PM	MCM	1	SA	SAF07190824_033.DAT		36527
IB	8/24/2006 2:16:12 PM	MCM	1	SA	SAF07190824_034.DAT		225
722411 MB 17173	8/24/2006 2:28:58 PM	MCM	1	SA	SAF07190824_035.DAT		35939
722412 LCS 17173	8/24/2006 2:33:19 PM	MCM	1	SA	SAF07190824_036.DAT		28973
IB	8/24/2006 2:37:28 PM	MCM	1	SA	SAF07190824_037.DAT		818
722079 MB 17168	8/24/2006 2:41:38 PM	MCM	1	SA	SAF07190824_038.DAT		34190
722080 LCS 17168	8/24/2006 2:45:40 PM	MCM	1	SA	SAF07190824_039.DAT		34305
722412 LCS 17173	8/24/2006 3:14:22 PM	MCM	1	SA	SAF07190824_040.DAT		17423
722412 LCS 17173	8/24/2006 3:23:39 PM	MCM	1	SA	SAF07190824_041.DAT		28885
1064903001 C	8/24/2006 3:53:11 PM	MCM	1	SA	SAF07190824_042.DAT		34906
1064903002 C	8/24/2006 3:57:30 PM	MCM	1	SA	SAF07190824_043.DAT		36005
1064903003 C	8/24/2006 4:01:50 PM	MCM	1	SA	SAF07190824_044.DAT		24682
CCVB	8/24/2006 4:05:56 PM	MCM	1	SA	SAF07190824_045.DAT		20471
CCVR	8/24/2006 4:10:03 PM	MCM	1	SA	SAF07190824_046.DAT		0
IB	8/24/2006 4:14:27 PM	MCM	1	SA	SAF07190824_047.DAT		804
IB	8/24/2006 4:18:34 PM	MCM	1	SA	SAF07190824_048.DAT		731

8/26/2006 1:36:22 PM

1064903004 C	8/24/2006 4:22:35 PM	MCM	1	SA	SAF07190824_049.DAT	34162
1064903005 C	8/24/2006 4:26:39 PM	MCM	1	SA	SAF07190824_050.DAT	33352
1064903006 B	8/24/2006 4:31:01 PM	MCM	1	SA	SAF07190824_051.DAT	32145
IB	8/24/2006 4:35:09 PM	MCM	1	SA	SAF07190824_052.DAT	881
1064903007 B BMS	8/24/2006 4:39:31 PM	MCM	1	SA	SAF07190824_053.DAT	33063
1064903008 B BM...	8/24/2006 4:43:57 PM	MCM	1	SA	SAF07190824_054.DAT	36628
1064903009 C	8/24/2006 4:48:14 PM	MCM	1	SA	SAF07190824_055.DAT	33638

Kozulob

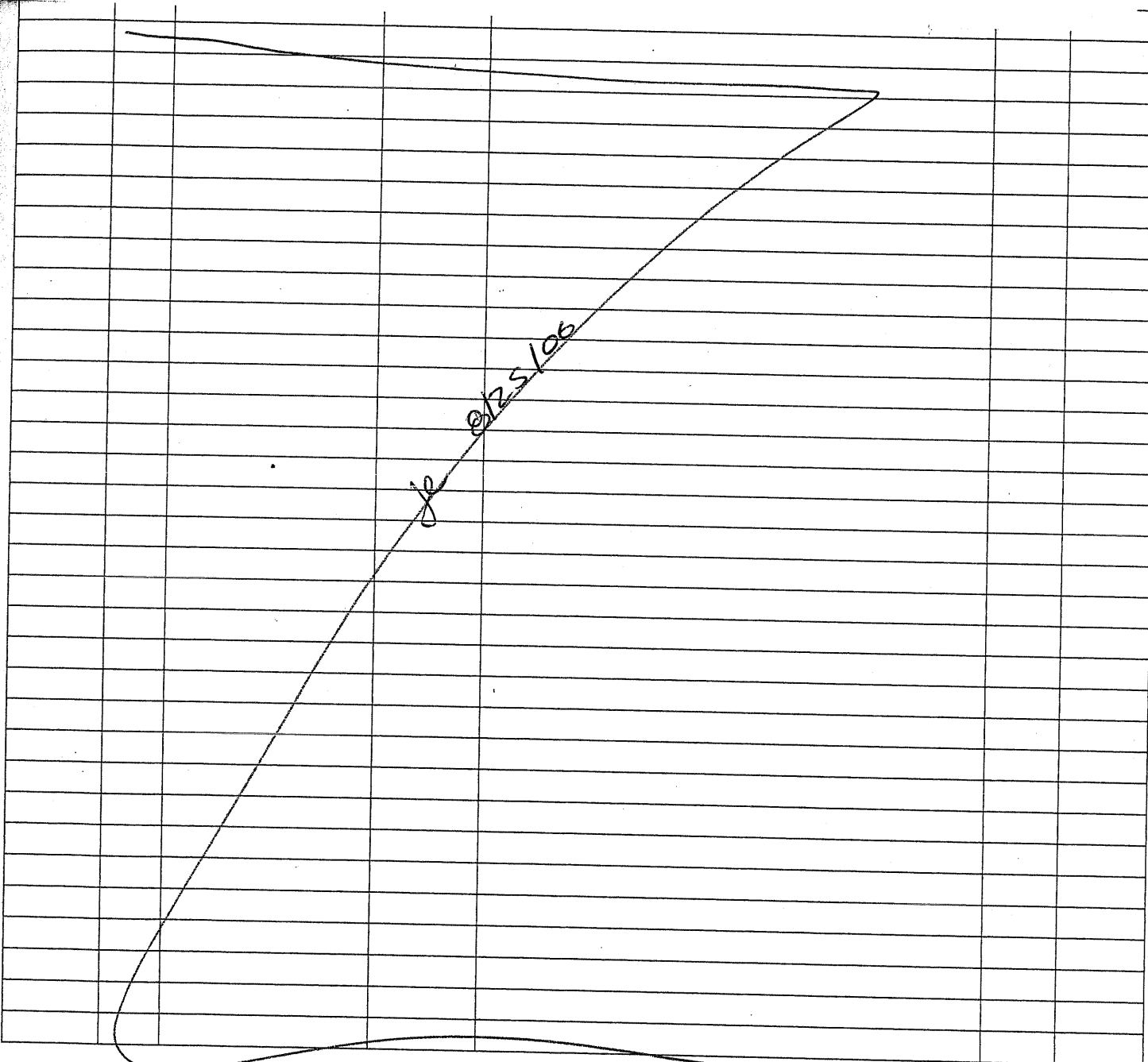
Date: 8-24-06 Inst: SAF Operator: J.E. Batch: XFC 7118 Analysis: 102/103

SAMPLE ID	DF	Comments	Vials	Data File	Standard ID
IB			1	SAF07190824_001.DAT	45277
C10-C26, C28, C30, C32, C34, C36			2	SAF07190824_002.DAT	SVW8-146-1
CCVB 103			3	SAF07190824_003.DAT	SVW8-138-11
CCVR 83			4	SAF07190824_004.DAT	SVW8-128-27
IB			1	SAF07190824_005.DAT	
IB			1	SAF07190824_006.DAT	
722000 MB 17165 <i>89/78</i>			1	SAF07190824_006.DAT	
722001 LCS 17165 <i>71/87 81/83</i>		<i>unable to skim DTC</i>	5	SAF07190824_007.DAT	
722002 LCSD 17165 <i>76/85 82/76</i>			6	SAF07190824_008.DAT	
1064852049 C ✓			7	SAF07190824_009.DAT	
1064852050 C BMS ✓			8	SAF07190824_010.DAT	
1064852051 C BMSD ✓		<i>NO Spu</i>	9	SAF07190824_011.DAT	
1064852052 D ✓			10	SAF07190824_012.DAT	
1064852053 D ✓			11	SAF07190824_013.DAT	
IB			12	SAF07190824_014.DAT	
1064852054 D ✓			1	SAF07190824_015.DAT	
1064852055 D ✓			13	SAF07190824_016.DAT	
1064852056 A ✓			14	SAF07190824_017.DAT	
IB			15	SAF07190824_018.DAT	
1064875003 H ✓			1	SAF07190824_019.DAT	
1064875004 H ✓			16	SAF07190824_020.DAT	
1064875005 H ✓			17	SAF07190824_021.DAT	
CCVB 97			18	SAF07190824_022.DAT	
CCVR 86			3	SAF07190824_023.DAT	
IB			4	SAF07190824_024.DAT	
IB			1	SAF07190824_025.DAT	
1064875006 H ✓			1	SAF07190824_026.DAT	
1064875007 H ✓			19	SAF07190824_027.DAT	
1064875008 H ✓			20	SAF07190824_028.DAT	
IB			21	SAF07190824_029.DAT	
1064905001 A ✓			1	SAF07190824_030.DAT	
1064905002 A ✓			22	SAF07190824_031.DAT	
1064905003 A ✓			23	SAF07190824_032.DAT	
IB			24	SAF07190824_033.DAT	
722411 MB 17173 <i>88/77</i>			1	SAF07190824_034.DAT	
722412 LCS 17173 <i>68/78 70/66</i>		<i>unable to skim DTC</i>	25	SAF07190824_035.DAT	
IB			26	SAF07190824_036.DAT	
722079 MB 17168 <i>83/77</i>			1	SAF07190824_037.DAT	
722080 LCS 17168 <i>81/95 86/79</i>			27	SAF07190824_038.DAT	
1064903001 C ✓ <i>LCS 17173</i>			28	SAF07190824_039.DAT	<i>41 + 40</i>
1064903002 C ✓			29	SAF07190824_040.DAT	
1064903003 C ✓			30	SAF07190824_041.DAT	
CCVB 99			31	SAF07190824_042.DAT	
CCVR 90			3	SAF07190824_043.DAT	
IB			4	SAF07190824_044.DAT	
IB			1	SAF07190824_045.DAT	
1064903004 C ✓			1	SAF07190824_046.DAT	
1064903005 C ✓			32	SAF07190824_047.DAT	
1064903006 B ✓			33	SAF07190824_048.DAT	
IB			34	SAF07190824_049.DAT	
1064903007 B BMS ✓		<i>unable to skim DTC</i>	1	SAF07190824_050.DAT	
			35	SAF07190824_051.DAT	

8/25/06

Date: 8-24-06 Inst: SAF Operator: J.E Batch: XFC 7118 Analysis: 102/103

1064903008 B BMSD ✓	unob skim BTZ	36	SAF07190824_052.DAT	↓ 57
1064903009 CV ✓		37	SAF07190824_053.DAT	
CCVB 98		3	SAF07190824_054.DAT	
CCVR 90		4	SAF07190824_055.DAT	



3/07

Standards:

Handwritten marks at the bottom right corner.

Horizon Batch #: 17165

Extraction Bench Sheet

	ID	Amount Added (ml)	Conc.
Surrogates:	SVWR-145-1	1ml	100ug/ml
Martix Spikes:	SVWR-79-4	1ml	1000ug/ml

Extraction Method: 3520/102+3
 Extraction Start Date/Time: 8/23/06 09:50
 Extraction Finish Date/Time: ↓ 17:59
 Extr. Technician: RM, JS

Reagent Lot # Na₂SO₄ PWI-37-4
Glass Wool RM 8/23/06
1ml pipette 51958

Spike Witness: JDS, RM^w

Solvent Lot No. Used: CH₂Cl₂ 45277/CR, RM
 TV Temperature: 48° CQ591

Posted By / Date: RM 8/24/06

Batch Released By: _____

#	Workorder No.	Initial Wt./Vol. (gm / mL)	Final Volume (ml)	continuous extracted for #hrs	(pH, sonication level, sample and/or extract description)	Comments
1	Method Blank	1000	1ml		722000	pH=2
2	LCS	↓			↓ 1	
3	LCSD	↓			↓ 2	
4	4187-1 B	10ml				diluted with 950 D.I. water initial pH=9 changed to 2
5	4852-49 4852	970				pH=2 RM 8/23/06
6	4852-49 C	970				pH=2
7	BMS-50 C	1000				BMS & BMSD were not spiked
8	BMS0-51 C	980				↓
9	-52 D	900				
10	-53 ↓	980				
11	-54 ↓	1000				
12	-55 D	900				initial pH is 6; changed to 2 with HCl
13	-56 A	980				possibly surrogated 2x
14	4875-3 H	1000				pH=2
15	-4 ↓					
16	-5 ↓					
17	-6 ↓					
18	-7 ↓					
19	-8 ↓					
20	4905-1 A					
21	-2 ↓					
22	-3 ↓					
23						
24						
25						

NOTES:

Handwritten notes:
 RM
 51958
 8/23/06

Section 6.2

JUL 20 2006

Scanned

SDR 71106

SGS

Method: 102/103

Date: 7/11/06

Inst: SDR

Contents

Chromatograms and method reports for IB, NAS, ICV and Cal Std

Analyst Initials	Reviewer Initials
<u>MA</u>	<u>JE</u>

Calibration reports for Surr/DRO/RRO

<u>MA</u>	<u>JE</u>
-----------	-----------

Runlog

<u>MA</u>	<u>JE</u>
-----------	-----------

Validation:

IB and NAS have been run in the beginning of the sequence

<u>MA</u>	<u>JE</u>
-----------	-----------

The retention time group window set correctly

DRO - C10 - Beg C25

RRO - C25 - C36

8015 B DRO C10 - C28

8015 B RRO C28 - C36

<u>MA</u>	<u>JE</u>
<u>MA</u>	<u>JE</u>
<u>MA</u>	<u>NA</u>
<u>MA</u>	<u>NA</u>

The calibration curve contains at least 5 points.

<u>MA</u>	<u>JE</u>
-----------	-----------

The percent relative standard deviation of the response factor is <25% or r^2 >0.99

<u>MA</u>	<u>JE</u>
-----------	-----------

Dates are correct

<u>MA</u>	<u>JE</u>
-----------	-----------

Force through zero is off

<u>MA</u>	<u>JE</u>
-----------	-----------

The ICV is 75%-125% recovery

<u>MA</u>	<u>JE</u>
-----------	-----------

The audit trail is on

<u>MA</u>	<u>JE</u>
-----------	-----------

DRO/RRO named peak box is unchecked

<u>MA</u>	<u>JE</u>
-----------	-----------

Hand calculate concentration of DRO/RRO of ICV using AREA / RF. Show work below

DRO RF = $\frac{231.222}{113.011}$
RRO RF = $\frac{113.011}{114.086}$
$\frac{252852}{231.222} = 1093$
$\frac{28906}{113.011} = 255.7 = 114$
$\frac{183.24}{114} = 1.6$

114.086 MA 7/20/06

DRO RF = $\frac{231.222}{113.011}$
RRO RF = $\frac{113.011}{114.086}$
DRO $\frac{252852}{231.222} = 1093$
RRO $\frac{51078}{114.086} = 4477$

Calibration Report

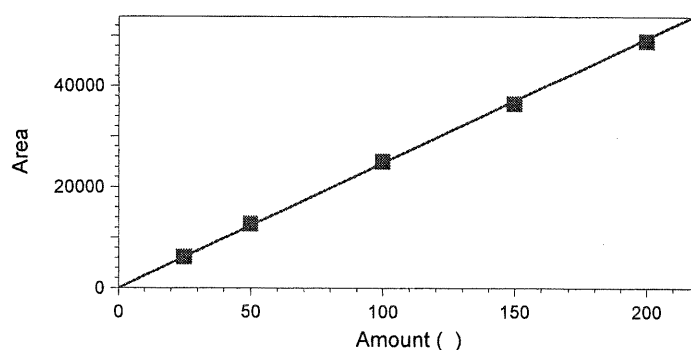
Method: E:\Public\2006\07\SD\Method\SDR071106.met
 Print Time: 7/20/2006 1:54:22 PM
 User: MCM
 Instrument: SD (Offline)

5 alpha Androstane (Rear FID)

Average RF: 247.371 RF StDev: 4.29235 RF %RSD: 1.73519
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 247.371

Peak: 5 alpha Androstane -- ESTD -- Rear FID



	Level 11	Level 12	Level 13	Level 14	Level 15
Amount	25	50	100	150	200
Area	6144	12676	24998	36466	48898
RF	245.76	253.52	249.98	243.10666666666667	244.49
Last Area Residual	0.162846	-1.2428	-1.05455	2.58599	2.32956
Rep StDev					
Rep %RSD					
Rep 1 Area	6144	12676	24998	36466	48898
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\07\SD\Data\071106R\SDR07110711_05.DAT	E:\Public\2006\07\SD\Data\071106R\SDR0711_006.DAT	E:\Public\2006\07\SD\Data\071106R\SDR0711_007.DAT	E:\Public\2006\07\SD\Data\071106R\SDR0711_008.DAT	E:\Public\2006\07\SD\Data\071106R\SDR07110711_009.DAT
Rep 1 Sample ID	SURR 25	SURR 50	SURR 100	SURR 150	SURR 200
Rep 1 Calib. Time	7/11/2006 2:11:28 PM	7/11/2006 2:11:32 PM	7/11/2006 2:11:36 PM	7/11/2006 2:11:39 PM	7/11/2006 2:11:43 PM

Calibration Report

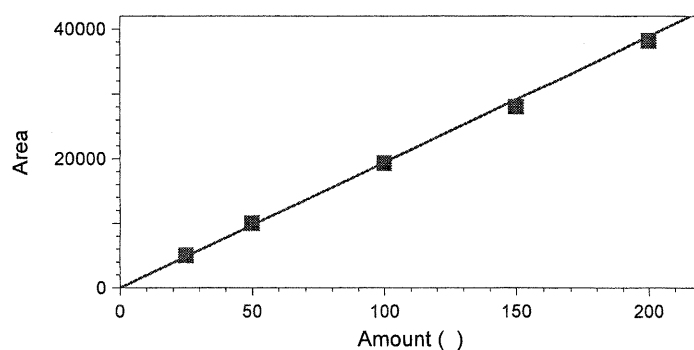
Method: E:\Public\2006\07\SD\Method\SDR071106.met
 Print Time: 7/20/2006 1:54:24 PM
 User: MCM
 Instrument: SD (Offline)

DTC (Rear FID)

Average RF: 194.331 RF StDev: 6.14467 RF %RSD: 3.16195
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 194.331

Peak: DTC -- ESTD -- Rear FID



	Level 11	Level 12	Level 13	Level 14	Level 15
Amount	25	50	100	150	200
Area	5026	10004	19314	28003	38142
RF	201.04	200.08	193.14	186.686666666667	190.71
Last Area Residual	-0.863045	-1.47909	0.613042	5.90075	3.72697
Rep StDev					
Rep %RSD					
Rep 1 Area	5026	10004	19314	28003	38142
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\07\SD\Data\071106R\SDR07110711_005.DAT	E:\Public\2006\07\SD\Data\071106R\SDR0711_006.DAT	E:\Public\2006\07\SD\Data\071106R\SDR07110_007.DAT	E:\Public\2006\07\SD\Data\071106R\SDR0711_008.DAT	E:\Public\2006\07\SD\Data\07110711_009.DAT
Rep 1 Sample ID	SURR 25	SURR 50	SURR 100	SURR 150	SURR 200
Rep 1 Calib. Time	7/11/2006 2:11:28 PM	7/11/2006 2:11:32 PM	7/11/2006 2:11:36 PM	7/11/2006 2:11:39 PM	7/11/2006 2:11:43 PM

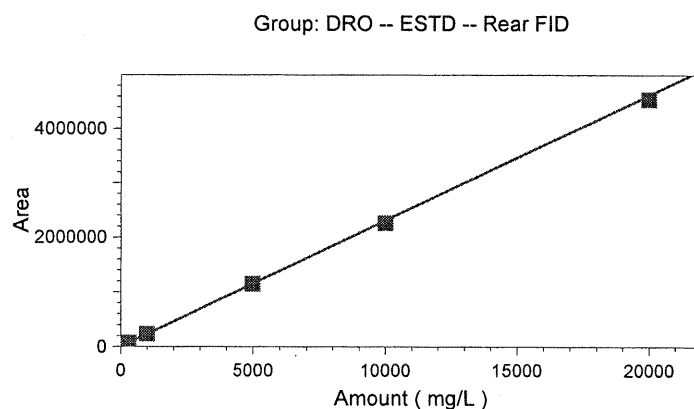
Calibration Report

Method: E:\Public\2006\07\SD\Method\SDR071106.met
 Print Time: 7/20/2006 1:54:39 PM
 User: MCM
 Instrument: SD (Offline)

DRO (Rear FID)

Average RF: 231.222 RF StDev: 7.22605 RF %RSD: 3.12516
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 231.222



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	300	1000	5000	10000	20000
Area	73136	230019	1147114	2259029	4539552
RF	243.7866666 66667	230.019	229.4228	225.9029	226.9776
Last Area					
Residual	-16.3024	5.2019	38.9019	230.034	367.11
Rep StDev					
Rep %RSD					
Rep 1 Area	73136	230019	1147114	2259029	4539552
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\07\SD\Data\071106R\SDR07110711_023.DAT	E:\Public\2006\07\SD\Data\071106R\SDR0711_012.DAT	E:\Public\2006\07\SD\Data\071106R\SDR0711_013.DAT	E:\Public\2006\07\SD\Data\071106R\SDR0711_014.DAT	E:\Public\2006\07\SD\Data\07110711_015.DAT
Rep 1 Sample ID	DRO 300	DRO 1000	DRO 5000	DRO 10000	DRO 20000
Rep 1 Calib. Time	7/11/2006 2:28:01 PM	7/11/2006 2:16:15 PM	7/11/2006 2:16:18 PM	7/11/2006 2:16:22 PM	7/11/2006 2:16:25 PM

Calibration Report

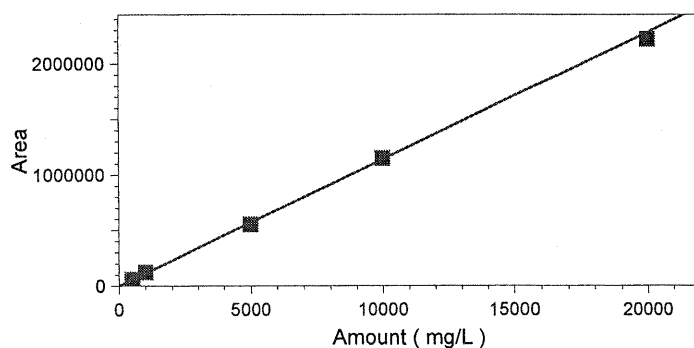
Method: E:\Public\2006\07\SD\Method\SDR071106.met
 Print Time: 7/20/2006 4:14:16 PM
 User: MCM
 Instrument: SD (Offline)

RRO (Rear FID)

Average RF: 114.086 RF StDev: 4.01550 RF %RSD: 3.51973
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 114.086

Group: RRO -- ESTD -- Rear FID



	Level 6	Level 7	Level 8	Level 9	Level 10
Amount	500	1000	5000	10000	20000
Area	56839	120513	552545	1147670	2219220
RF	113.678	120.513	110.509	114.767	110.961
Last Area					
Residual	1.78638	-56.3384	156.751	-59.7271	547.764
Rep StDev					
Rep %RSD					
Rep 1 Area	56839	120513	552545	1147670	2219220
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\07\SD\Data\071106R\SDR07110711_017.DAT	E:\Public\2006\07\SD\Data\071106R\SDR0711_018.DAT	E:\Public\2006\07\SD\Data\071106R\SDR0711_019.DAT	E:\Public\2006\07\SD\Data\071106R\SDR0711_020.DAT	E:\Public\2006\07\SD\Data\071106R\SDR07110711_021.DAT
Rep 1 Sample ID	RRO 500	RRO 1000	RRO 5000	RRO 10000	RRO 20000
Rep 1 Calib. Time	7/11/2006 2:16:28 PM	7/11/2006 2:16:31 PM	7/11/2006 2:16:35 PM	7/20/2006 4:03:02 PM	7/11/2006 2:16:42 PM

Calibration Report

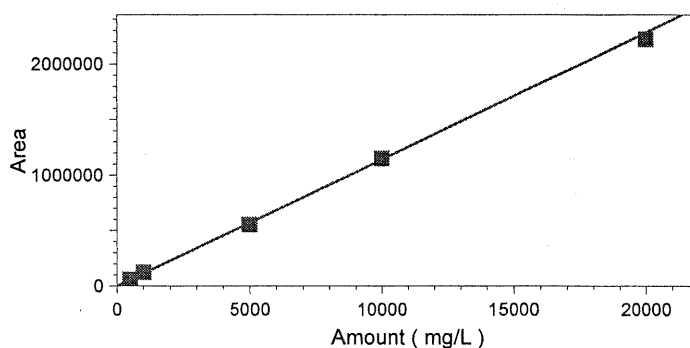
Method: E:\Public\2006\07\SD\Method\SDR071106.met
 Print Time: 7/20/2006 4:14:19 PM
 User: MCM
 Instrument: SD (Offline)

RRO AND SURR (Rear FID)

Average RF: 114.086 RF StDev: 4.01550 RF %RSD: 3.51973
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 114.086

Group: RRO AND SURR -- ESTD -- Rear FID



	Level 6	Level 7	Level 8	Level 9	Level 10
Amount	500	1000	5000	10000	20000
Area	56839	120513	552545	1147670	2219220
RF	113.678	120.513	110.509	114.767	110.961
Last Area					
Residual	1.78638	-56.3384	156.751	-59.7271	547.764
Rep StDev					
Rep %RSD					
Rep 1 Area	56839	120513	552545	1147670	2219220
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\07\SD\Data\071106R\SDR07110711_017.DAT	E:\Public\2006\07\SD\Data\071106R\SDR0711_018.DAT	E:\Public\2006\07\SD\Data\071106R\SDR0711_019.DAT	E:\Public\2006\07\SD\Data\071106R\SDR0711_020.DAT	E:\Public\2006\07\SD\Data\07110711_021.DAT
Rep 1 Sample ID	RRO 500	RRO 1000	RRO 5000	RRO 10000	RRO 20000
Rep 1 Calib. Time	7/11/2006 2:16:28 PM	7/11/2006 2:16:31 PM	7/11/2006 2:16:35 PM	7/20/2006 4:03:02 PM	7/11/2006 2:16:42 PM

Calibration Report

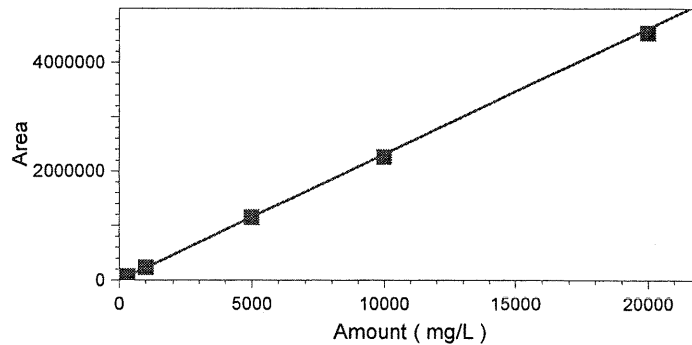
Method: E:\Public\2006\07\SD\Method\SDR071106.met
 Print Time: 7/20/2006 1:54:42 PM
 User: MCM
 Instrument: SD (Offline)

DRO AND SURR (Rear FID)

Average RF: 231.222 RF StDev: 7.22605 RF %RSD: 3.12516
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 231.222

Group: DRO AND SURR -- ESTD -- Rear FID



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	300	1000	5000	10000	20000
Area	73136	230019	1147114	2259029	4539552
RF	243.7866666 66667	230.019	229.4228	225.9029	226.9776
Last Area					
Residual	-16.3024	5.2019	38.9019	230.034	367.11
Rep StDev					
Rep %RSD					
Rep 1 Area	73136	230019	1147114	2259029	4539552
Rep 1 User	MCM	MCM	MCM	MCM	MCM
Rep 1 Data File	E:\Public\2006\07\SD\Data\071106R\SDR07110711_023.DAT	E:\Public\2006\07\SD\Data\071106R\SDR0711_012.DAT	E:\Public\2006\07\SD\Data\071106R\SDR0711_013.DAT	E:\Public\2006\07\SD\Data\071106R\SDR0711_014.DAT	E:\Public\2006\07\SD\Data\071106R\SDR07110711_015.DAT
Rep 1 Sample ID	DRO 300	DRO 1000	DRO 5000	DRO 10000	DRO 20000
Rep 1 Calib. Time	7/11/2006 2:28:01 PM	7/11/2006 2:16:15 PM	7/11/2006 2:16:18 PM	7/11/2006 2:16:22 PM	7/11/2006 2:16:25 PM

Date: 7/11/06 Inst: SDF Operator: M Batch: XFC 102/103

Mecl2 Lot #45277 used for all dilutions

Sample ID	DF	Comments	Vial	Data File	Standard ID
IB			1	SDF07110711_001.DAT	45277
C10-C26,C28,C30,C32,C34,C36			3	SDF07110711_002.DAT	SVW8-12-9
IB			1	SDF07110711_003.DAT	
SURR 25			6	SDF07110711_004.DAT	SVW8-130-13
SURR 50			7	SDF07110711_005.DAT	SVW8-130-14
SURR 100			8	SDF07110711_006.DAT	SVW8-130-15
SURR 150			9	SDF07110711_007.DAT	SVW8-130-16
SURR 200			10	SDF07110711_008.DAT	SVW8-130-17
IB			1	SDF07110711_009.DAT	
DRO 300 - using dil. bottle			11	SDF07110711_010.DAT	SVW8-130-2
DRO 1000			12	SDF07110711_011.DAT	SVW8-130-3
DRO 5000			13	SDF07110711_012.DAT	SVW8-130-4
DRO 10000			14	SDF07110711_013.DAT	SVW8-130-5
DRO 20000			15	SDF07110711_014.DAT	SVW8-130-6
IB			1	SDF07110711_015.DAT	
RRO 500			16	SDF07110711_016.DAT	SVW8-130-8
RRO 1000			17	SDF07110711_017.DAT	SVW8-130-9
RRO 5000			18	SDF07110711_018.DAT	SVW8-130-11
RRO 10000			19	SDF07110711_019.DAT	SVW8-130-12
RRO 20000			20	SDF07110711_020.DAT	SVW8-130-13
IB			1	SDF07110711_021.DAT	
DRO 300			23	SDF07110711_022.DAT	
ICVB 114			21	SDF07110711_023.DAT	SVW8-130-18
ICVR 92			22	SDF07110711_024.DAT	SVW8-130-19
IB m 7/11/06			1	SDF07110711_025.DAT	
IB			1	SDF07110711_026.DAT	

Date: 7/11/06 Inst: SDR Operator: M Batch: XFC 102/103

Mecl2 Lot #45277 used for all dilutions

Sample ID	DF	Comments	Vial	Data File	Standard ID
IB			2	\SDR07110711_001.DAT	45277
IB			2	\SDR07110711_002.DAT	
C10-C26,C28,C30,C32,C34,C36			3	\SDR07110711_003.DAT	SVW8-12-9
IB			2	\SDR07110711_004.DAT	
SURR 25			6	\SDR07110711_005.DAT	SVW8-130-13
SURR 50			7	\SDR07110711_006.DAT	SVW8-130-14
SURR 100			8	\SDR07110711_007.DAT	SVW8-130-15
SURR 150			9	\SDR07110711_008.DAT	SVW8-130-16
SURR 200			10	\SDR07110711_009.DAT	SVW8-130-17
IB			2	\SDR07110711_010.DAT	
DRO 300 - using dil. bottle			11	\SDR07110711_011.DAT	SVW8-130-2
DRO 1000			12	\SDR07110711_012.DAT	SVW8-130-3
DRO 5000			13	\SDR07110711_013.DAT	SVW8-130-4
DRO 10000			14	\SDR07110711_014.DAT	SVW8-130-5
DRO 20000			15	\SDR07110711_015.DAT	SVW8-130-6
IB			2	\SDR07110711_016.DAT	
RRO 500			16	\SDR07110711_017.DAT	SVW8-130-8
RRO 1000			17	\SDR07110711_018.DAT	SVW8-130-9
RRO 5000			18	\SDR07110711_019.DAT	SVW8-130-11
RRO 10000			19	\SDR07110711_020.DAT	SVW8-130-12
RRO 20000			20	\SDR07110711_021.DAT	SVW8-130-13
IB			2	\SDR07110711_022.DAT	
DRO 300			23	\SDR07110711_023.DAT	
ICVB 109			21	\SDR07110711_024.DAT	SVW8-130-18
ICVR 90			22	\SDR07110711_025.DAT	SVW8-130-19
IB			2	\SDR07110711_026.DAT	

Sample ID	Date Acquired	Init	Mult	Instr	Data File	Comments	Area C9
IB	7/11/2006 10:14:31 AM	MCM	1	SD	SDR07110711_001-Rep1.D...	45277	PEAK....
IB	7/11/2006 10:19:52 AM	MCM	1	SD	SDR07110711_001-Rep2.D...	45277	PEAK....
IB	7/11/2006 10:25:02 AM	MCM	1	SD	SDR07110711_001-Rep3.D...	45277	PEAK....
IB	7/11/2006 10:30:19 AM	MCM	1	SD	SDR07110711_001-Rep4.D...	45277	PEAK....
IB	7/11/2006 10:35:33 AM	MCM	1	SD	SDR07110711_001-Rep5.D...	45277	PEAK....
IB	7/11/2006 10:40:48 AM	MCM	1	SD	SDR07110711_001-Rep6.D...	45277	PEAK....
IB	7/11/2006 10:46:00 AM	MCM	1	SD	SDR07110711_001-Rep7.D...	45277	PEAK....
IB	7/11/2006 10:51:18 AM	MCM	1	SD	SDR07110711_001-Rep8.D...	45277	PEAK....
IB	7/11/2006 10:56:30 AM	MCM	1	SD	SDR07110711_001-Rep9.D...	45277	PEAK....
IB	7/11/2006 11:01:42 AM	MCM	1	SD	SDR07110711_001-Rep10....	45277	PEAK....
IB	7/11/2006 11:06:58 AM	MCM	1	SD	SDR07110711_002.DAT		PEAK....
C10-C26,C28,C30...	7/11/2006 11:28:23 AM	MCM	1	SD	SDR07110711_003.DAT	SVW8-12-9	PEAK....
IB	7/11/2006 11:35:25 AM	MCM	1	SD	SDR07110711_004.DAT		PEAK....
SURR 25	7/11/2006 11:40:03 AM	MCM	1	SD	SDR07110711_005.DAT	SVW8-130-13	PEAK....
SURR 50	7/11/2006 11:45:16 AM	MCM	1	SD	SDR07110711_006.DAT	SVW8-130-14	PEAK....
SURR 100	7/11/2006 11:50:26 AM	MCM	1	SD	SDR07110711_007.DAT	SVW8-130-15	PEAK....
SURR 150	7/11/2006 11:55:37 AM	MCM	1	SD	SDR07110711_008.DAT	SVW8-130-16	PEAK....
SURR 200	7/11/2006 12:00:53 PM	MCM	1	SD	SDR07110711_009.DAT	SVW8-130-17	PEAK....
IB	7/11/2006 12:06:05 PM	MCM	1	SD	SDR07110711_010-Rep1.DAT		PEAK....
IB	7/11/2006 12:11:19 PM	MCM	1	SD	SDR07110711_010-Rep2.DAT		PEAK....
IB	7/11/2006 12:16:36 PM	MCM	1	SD	SDR07110711_010-Rep3.DAT		PEAK....
IB	7/11/2006 12:21:49 PM	MCM	1	SD	SDR07110711_010-Rep4.DAT		PEAK....
IB	7/11/2006 12:27:02 PM	MCM	1	SD	SDR07110711_010-Rep5.DAT		PEAK....
DRO 300	7/11/2006 12:32:14 PM	MCM	1	SD	SDR07110711_011.DAT	SVW8-130-2	PEAK....
DRO 1000	7/11/2006 12:37:33 PM	MCM	1	SD	SDR07110711_012.DAT	SVW8-130-3	PEAK....
DRO 5000	7/11/2006 12:42:46 PM	MCM	1	SD	SDR07110711_013.DAT	SVW8-130-4	PEAK....
DRO 10000	7/11/2006 12:47:56 PM	MCM	1	SD	SDR07110711_014.DAT	SVW8-130-5	PEAK....
DRO 20000	7/11/2006 12:53:10 PM	MCM	1	SD	SDR07110711_015.DAT	SVW8-130-6	PEAK....
IB	7/11/2006 12:58:24 PM	MCM	1	SD	SDR07110711_016-Rep1.DAT		PEAK....
IB	7/11/2006 1:03:36 PM	MCM	1	SD	SDR07110711_016-Rep2.DAT		PEAK....
IB	7/11/2006 1:08:54 PM	MCM	1	SD	SDR07110711_016-Rep3.DAT		PEAK....
IB	7/11/2006 1:14:07 PM	MCM	1	SD	SDR07110711_016-Rep4.DAT		PEAK....
IB	7/11/2006 1:19:19 PM	MCM	1	SD	SDR07110711_016-Rep5.DAT		PEAK....
RRO 500	7/11/2006 1:24:33 PM	MCM	1	SD	SDR07110711_017.DAT	SVW8-130-8	PEAK....
RRO 1000	7/11/2006 1:29:46 PM	MCM	1	SD	SDR07110711_018.DAT	SVW8-130-9	PEAK....
RRO 5000	7/11/2006 1:35:10 PM	MCM	1	SD	SDR07110711_019.DAT	SVW8-130-11	PEAK....
RRO 10000	7/11/2006 1:40:22 PM	MCM	1	SD	SDR07110711_020.DAT	SVW8-130-12	PEAK....
RRO 20000	7/11/2006 1:45:35 PM	MCM	1	SD	SDR07110711_021.DAT	SVW8-130-13	PEAK....
IB	7/11/2006 1:50:48 PM	MCM	1	SD	SDR07110711_022-Rep1.DAT		PEAK....
IB	7/11/2006 1:56:03 PM	MCM	1	SD	SDR07110711_022-Rep2.DAT		PEAK....
IB	7/11/2006 2:01:16 PM	MCM	1	SD	SDR07110711_022-Rep3.DAT		PEAK....
IB	7/11/2006 2:06:32 PM	MCM	1	SD	SDR07110711_022-Rep4.DAT		PEAK....
IB	7/11/2006 2:11:46 PM	MCM	1	SD	SDR07110711_022-Rep5.DAT		PEAK....
DRO 300	7/11/2006 2:17:01 PM	MCM	1	SD	SDR07110711_023.DAT		PEAK....
ICVB	7/11/2006 2:22:16 PM	MCM	1	SD	SDR07110711_024.DAT	SVW8-130-18	PEAK....
ICVR	7/11/2006 2:27:28 PM	MCM	1	SD	SDR07110711_025.DAT	SVW8-130-19	PEAK....

SGS Environmental Services Inc.

Sample Name: IB

Date/Time: 7/11/2006 11:01:42 AM

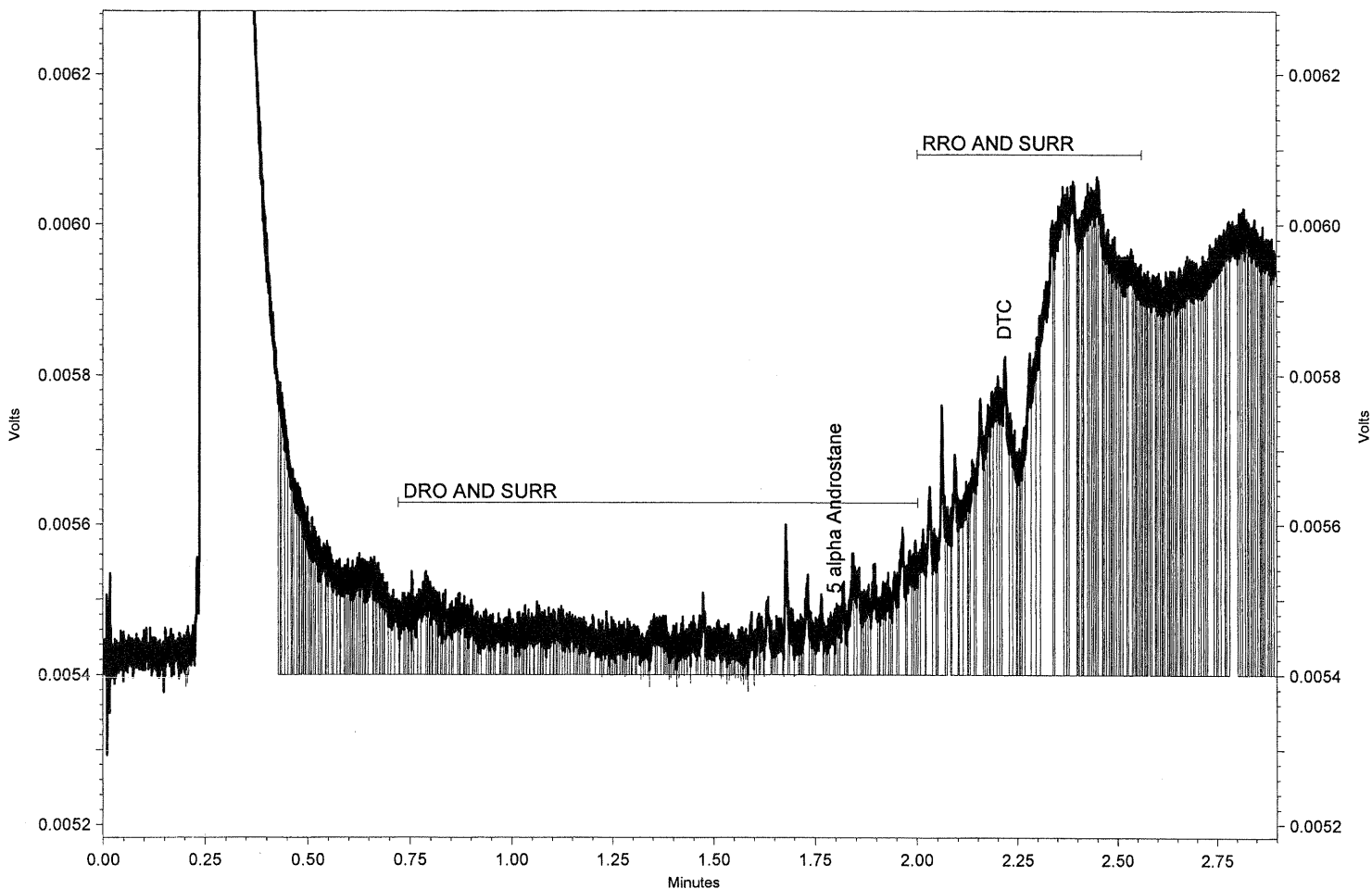
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\07\SD\Method\SDR071106.met

Sample File: E:\Public\2006\07\SD\Data\071106R\SDR07110711_001-Rep10.DAT

DRO/RRO



Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.797	13	0.053	LL	
DTC	2.216	389	2.002	LL	
DRO		4938	21.356	LC	mg/L
RRO		13221	116.988	LC	mg/L
DRO AND SURRE		4951	21.412	LC	mg/L
RRO AND SURRE		13610	120.431	LC	mg/L

SGS Environmental Services Inc.

Sample Name: C10-C26,C28,C30,C32,C34,C36

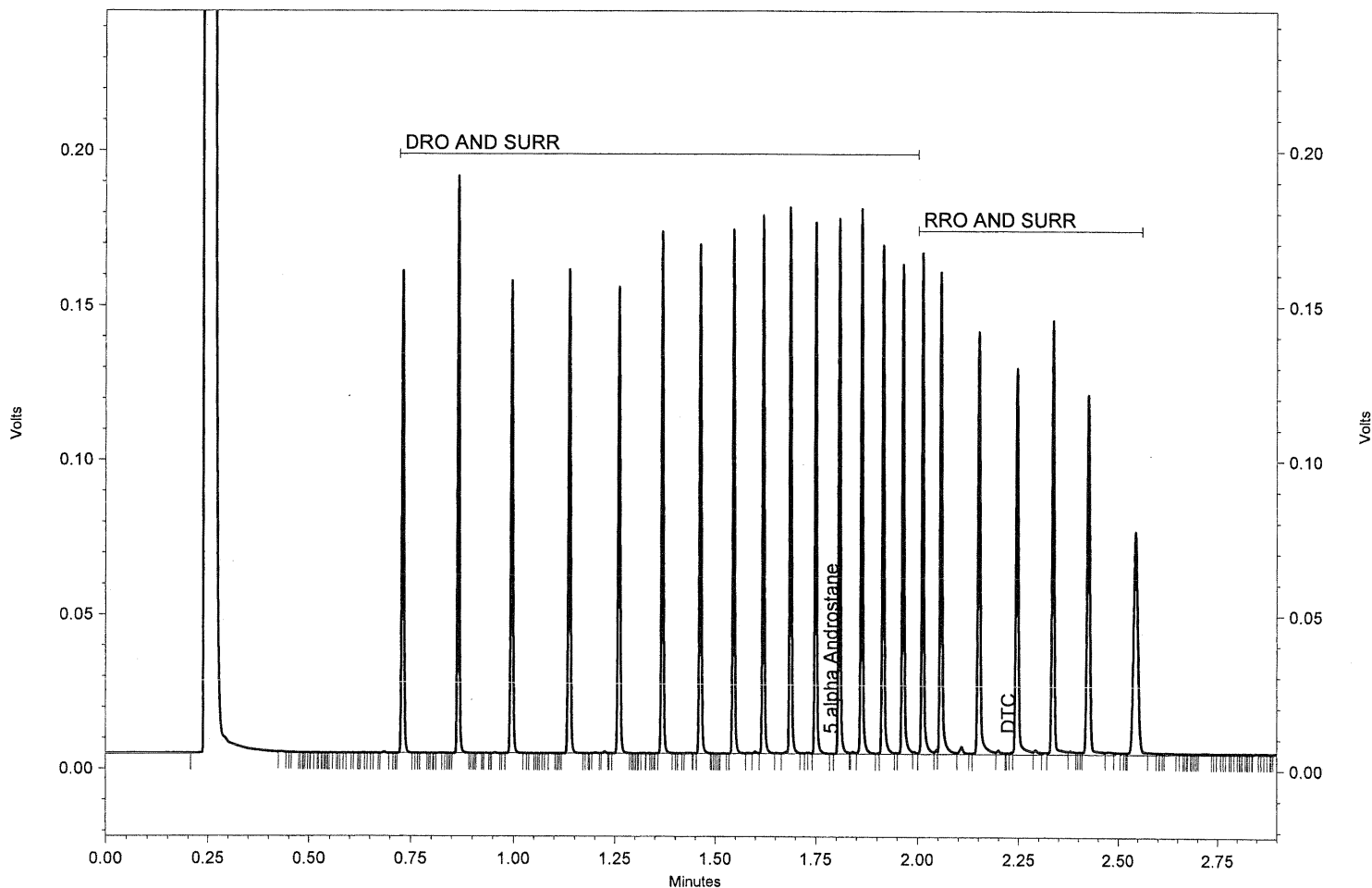
Date/Time: 7/11/2006 11:28:23 AM Analyst: MCM

Dilution: 1

Method: E:\Public\2006\07\SD\Method\SDR071106.met

Sample File: E:\Public\2006\07\SD\Data\071106R\SDR07110711_003.DAT

DRO/RRO



Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.788	107	0.384	LL	
DTC	2.225	244	1.243	LL	
DRO		832289	2924.067		mg/L
RRO		399561	3046.036		mg/L
DRO AND SURR		832396	2924.443		mg/L
RRO AND SURR		399805	3047.897		mg/L

SGS Environmental Services Inc.

Sample Name: SURR 25

Date/Time: 7/11/2006 11:40:03 AM

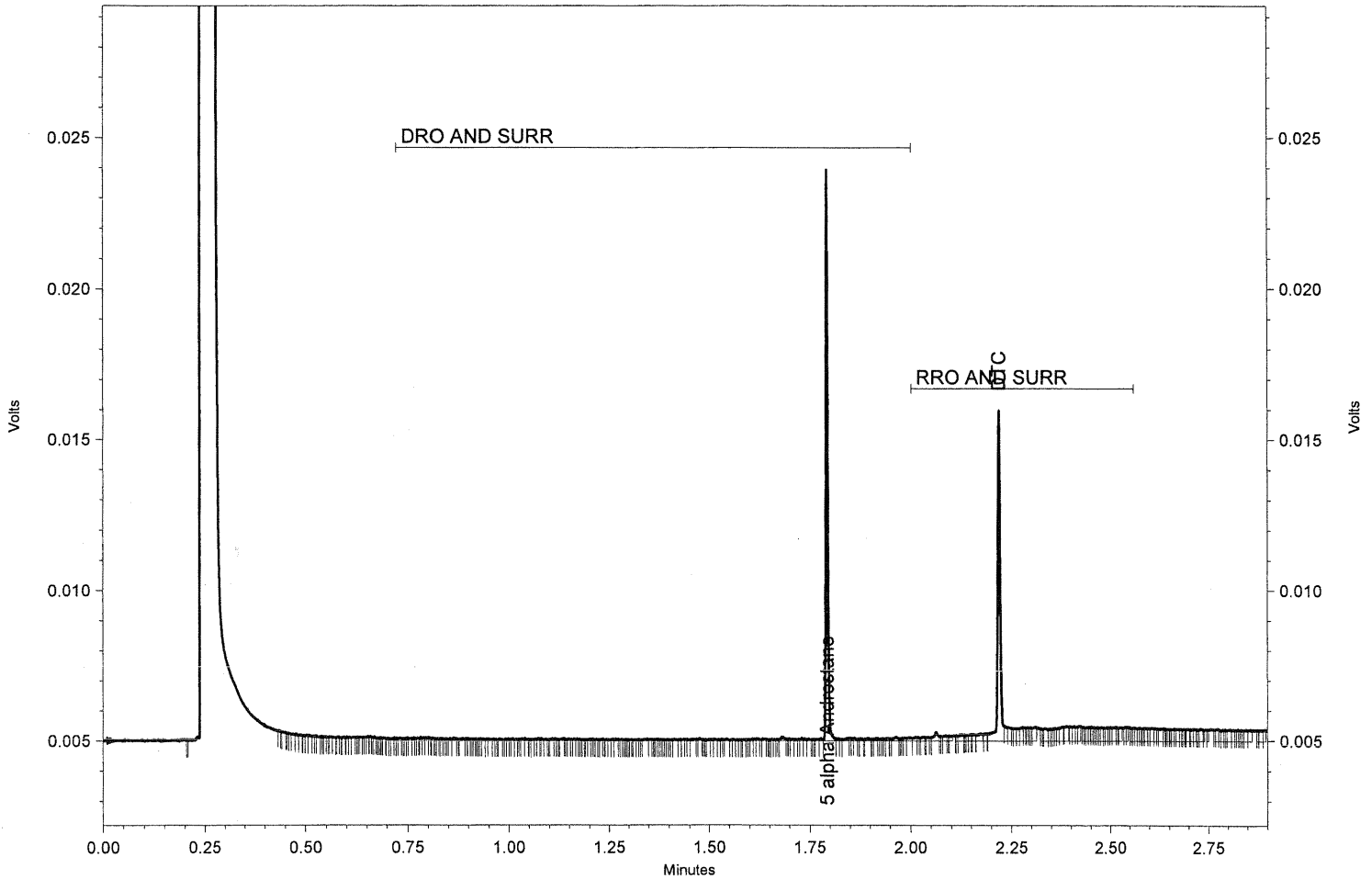
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\07\SD\Method\SDR071106.met

Sample File: E:\Public\2006\07\SD\Data\071106R\SDR07110711_005.DAT

DRO/RRO



Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.793	6144	25.000 CAL	LL	
DTC	2.220	5026	25.000 CAL	LL	
DRO		3863	0.000 CAL		mg/L
RRO		9907	0.000 CAL		mg/L
DRO AND SURRE		10007	0.000 CAL		mg/L
RRO AND SURRE		14933	0.000 CAL		mg/L

SGS Environmental Services Inc.

Sample Name: SURR 50

Date/Time: 7/11/2006 11:45:16 AM

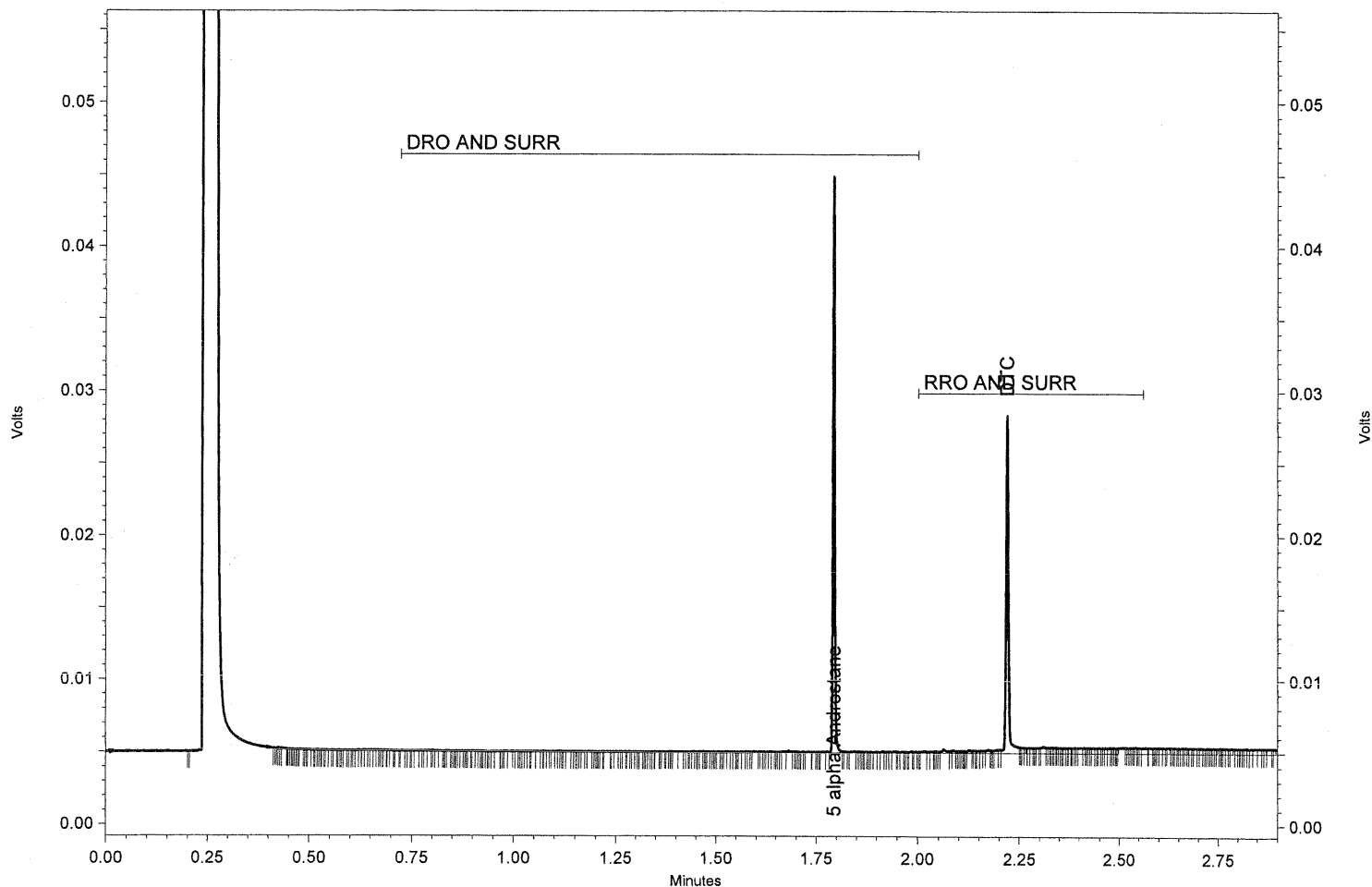
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\07\SD\Method\SDR071106.met

Sample File: E:\Public\2006\07\SD\Data\071106R\SDR07110711_006.DAT

DRO/RRO



Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.794	12676	50.000 CAL	LL	
DTC	2.220	10004	50.000 CAL	LL	
DRO		3591	0.000 CAL		mg/L
RRO		8740	0.000 CAL		mg/L
DRO AND SURRE		16267	0.000 CAL		mg/L
RRO AND SURRE		18744	0.000 CAL		mg/L

SGS Environmental Services Inc.

Sample Name: SURR 100

Date/Time: 7/11/2006 11:50:26 AM

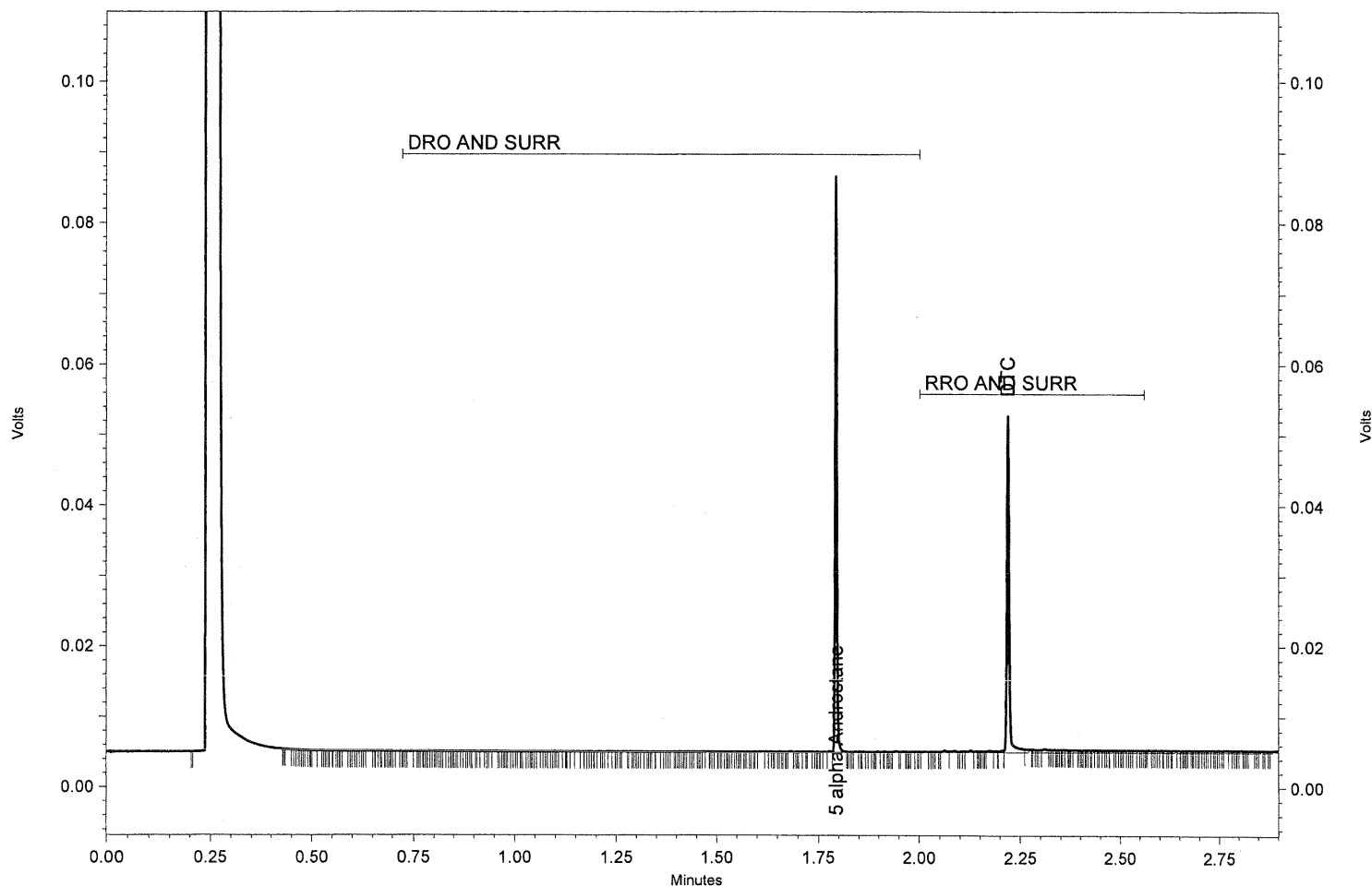
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\07\SD\Method\SDR071106.met

Sample File: E:\Public\2006\07\SD\Data\071106R\SDR07110711_007.DAT

DRO/RRO



Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.794	24998	100.000 CAL	LL	
DTC	2.220	19314	100.000 CAL	LL	
DRO		3697	0.000 CAL		mg/L
RRO		8149	0.000 CAL		mg/L
DRO AND SURRE		28695	0.000 CAL		mg/L
RRO AND SURRE		27463	0.000 CAL		mg/L

SGS Environmental Services Inc.

Sample Name: SURR 150

Date/Time: 7/11/2006 11:55:37 AM

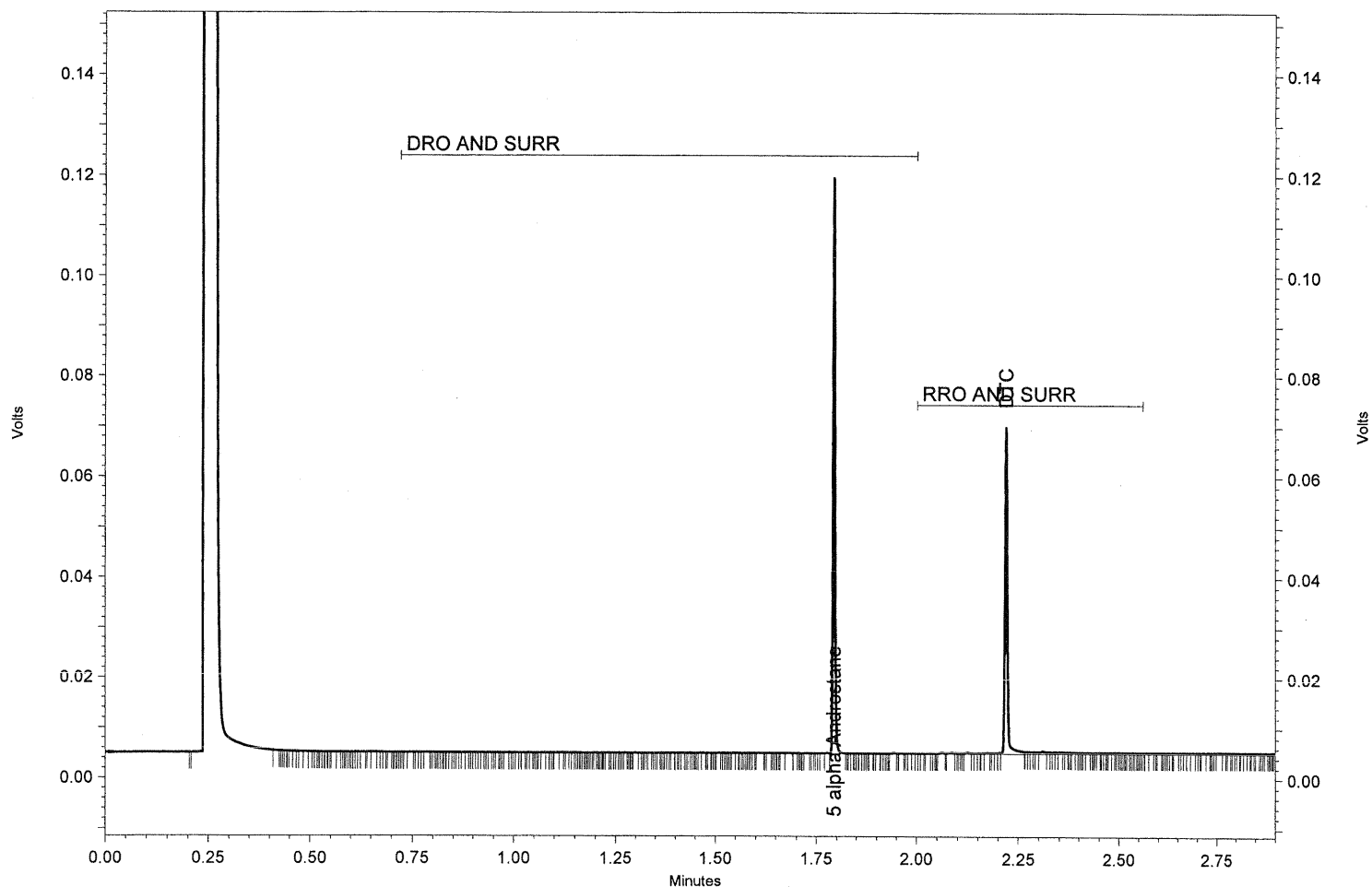
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\07\SD\Method\SDR071106.met

Sample File: E:\Public\2006\07\SD\Data\071106R\SDR07110711_008.DAT

DRO/RRO



Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.794	36466	150.000 CAL	LL	
DTC	2.220	28003	150.000 CAL	LL	
DRO		3879	0.000 CAL		mg/L
RRO		8546	0.000 CAL		mg/L
DRO AND SURRE		40345	0.000 CAL		mg/L
RRO AND SURRE		36549	0.000 CAL		mg/L

SGS Environmental Services Inc.

Sample Name: SURR 200

Date/Time: 7/11/2006 12:00:53 PM

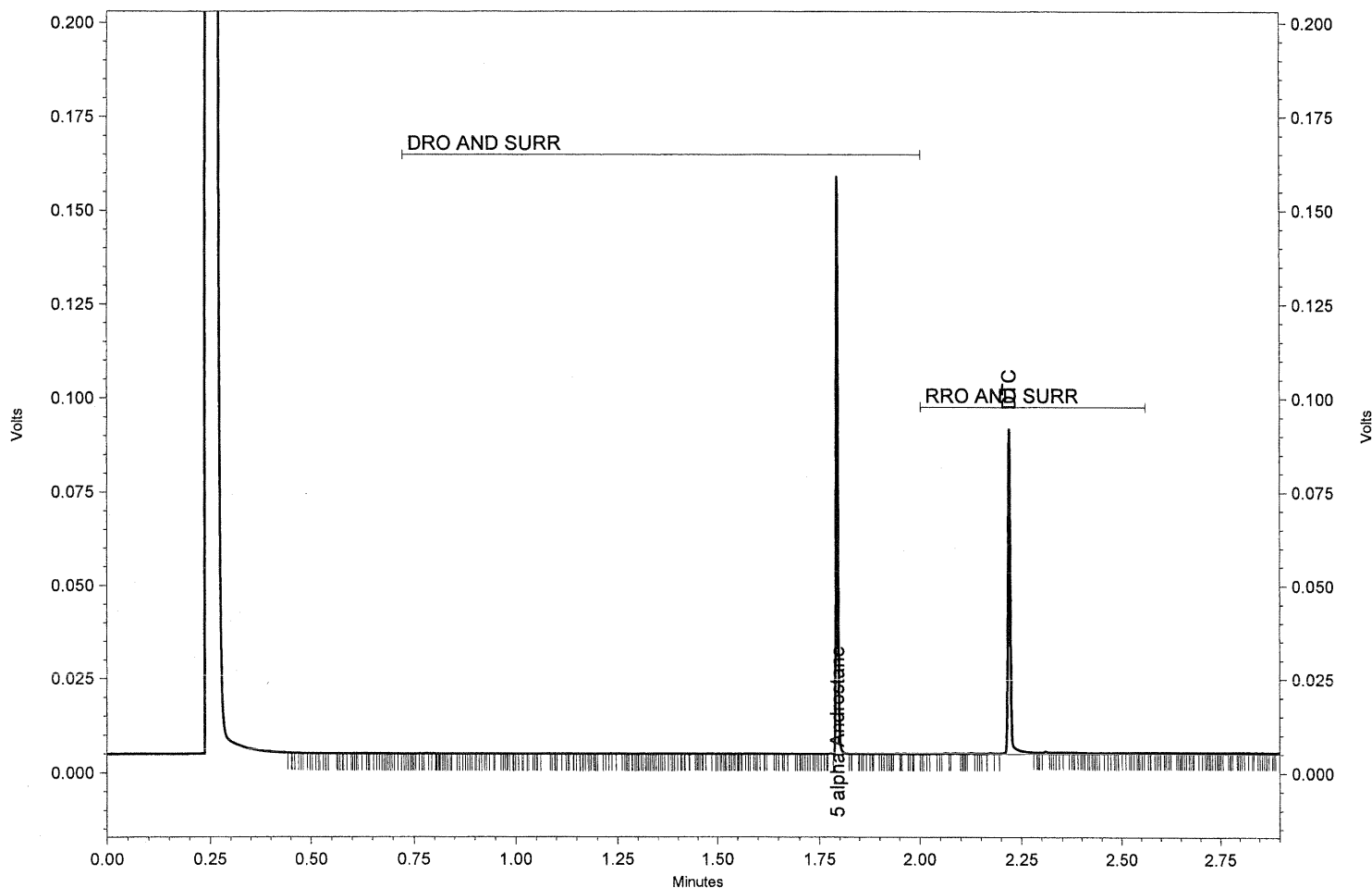
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\07\SD\Method\SDR071106.met

Sample File: E:\Public\2006\07\SD\Data\071106R\SDR07110711_009.DAT

DRO/RRO



Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.794	48898	200.000 CAL	LL	
DTC	2.220	38142	200.000 CAL	LL	
DRO		4139	0.000 CAL		mg/L
RRO		9657	0.000 CAL		mg/L
DRO AND SURR		53037	0.000 CAL		mg/L
RRO AND SURR		47799	0.000 CAL		mg/L

SGS Environmental Services Inc.

Sample Name: DRO 1000

Date/Time: 7/11/2006 12:37:33 PM

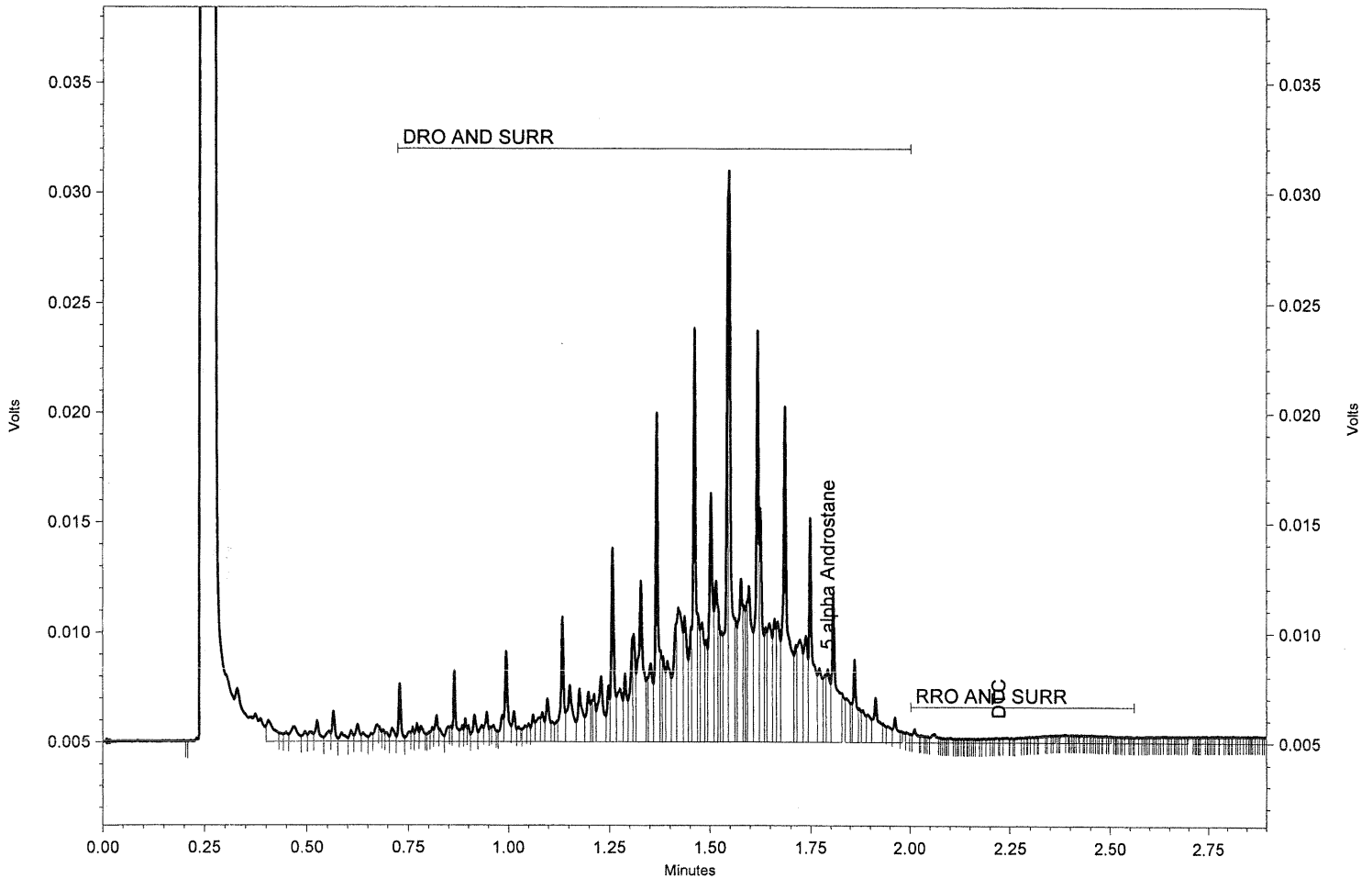
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\07\SD\Method\SDR071106.met

Sample File: E:\Public\2006\07\SD\Data\071106R\SDR07110711_012.DAT

DRO/RRO



Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.793	2012	0.000 CAL	LL	
DTC	2.223	36	0.000 CAL	LL	
DRO		230019	1000.000 CAL		mg/L
RRO		8949	0.000 CAL		mg/L
DRO AND SURRE		230019	1000.000 CAL		mg/L
RRO AND SURRE		8949	0.000 CAL		mg/L

SGS Environmental Services Inc.

Sample Name: DRO 5000

Date/Time: 7/11/2006 12:42:46 PM

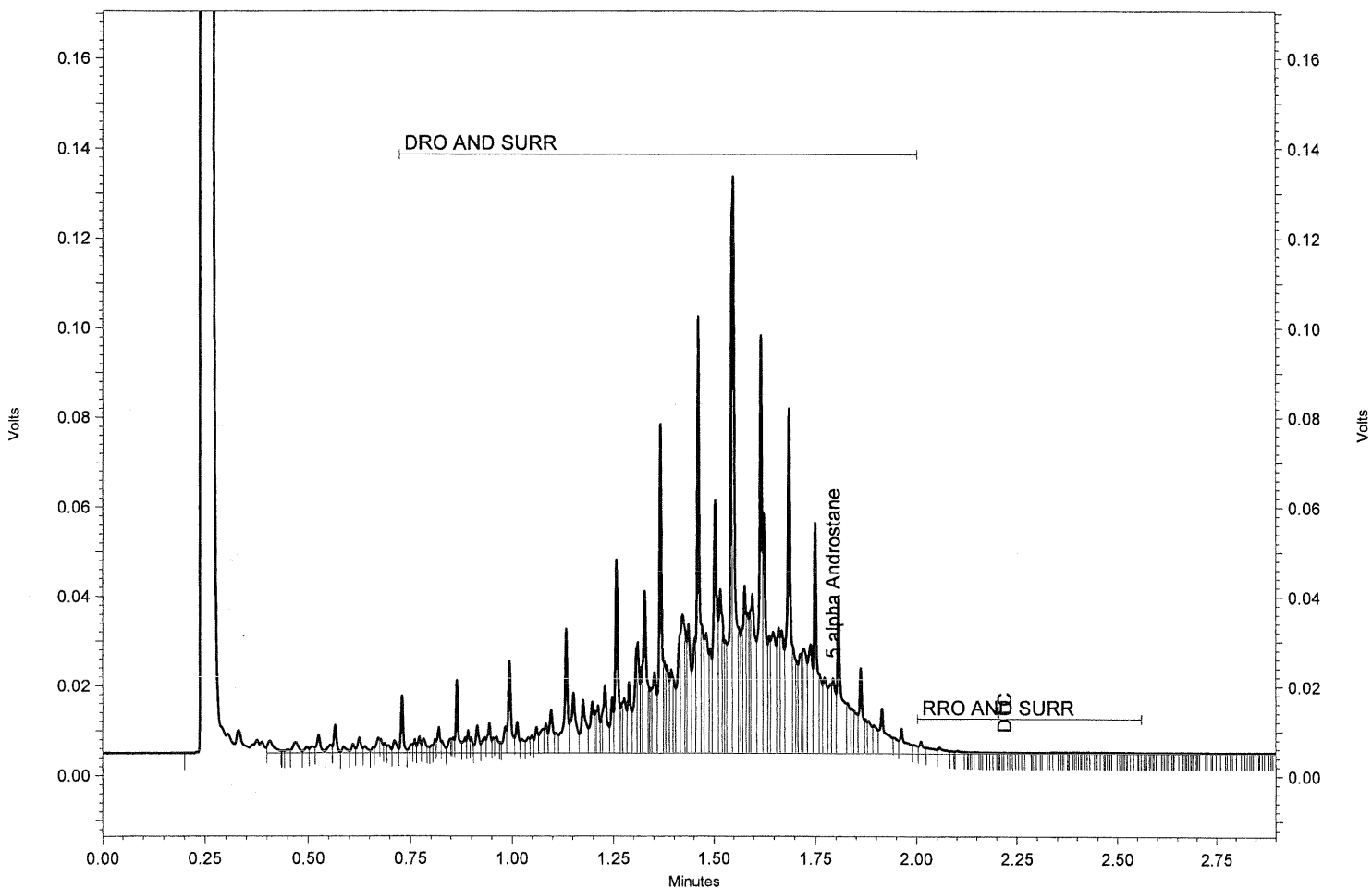
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\07\SD\Method\SDR071106.met

Sample File: E:\Public\2006\07\SD\Data\071106R\SDR07110711_013.DAT

DRO/RRO



Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.794	10733	0.000 CAL	LL	
DTC	2.220	165	0.000 CAL	LL	
DRO		1147114	5000.000 CAL		mg/L
RRO		14996	0.000 CAL		mg/L
DRO AND SURRE		1147114	5000.000 CAL		mg/L
RRO AND SURRE		14996	0.000 CAL		mg/L

SGS Environmental Services Inc.

Sample Name: DRO 10000

Date/Time: 7/11/2006 12:47:56 PM

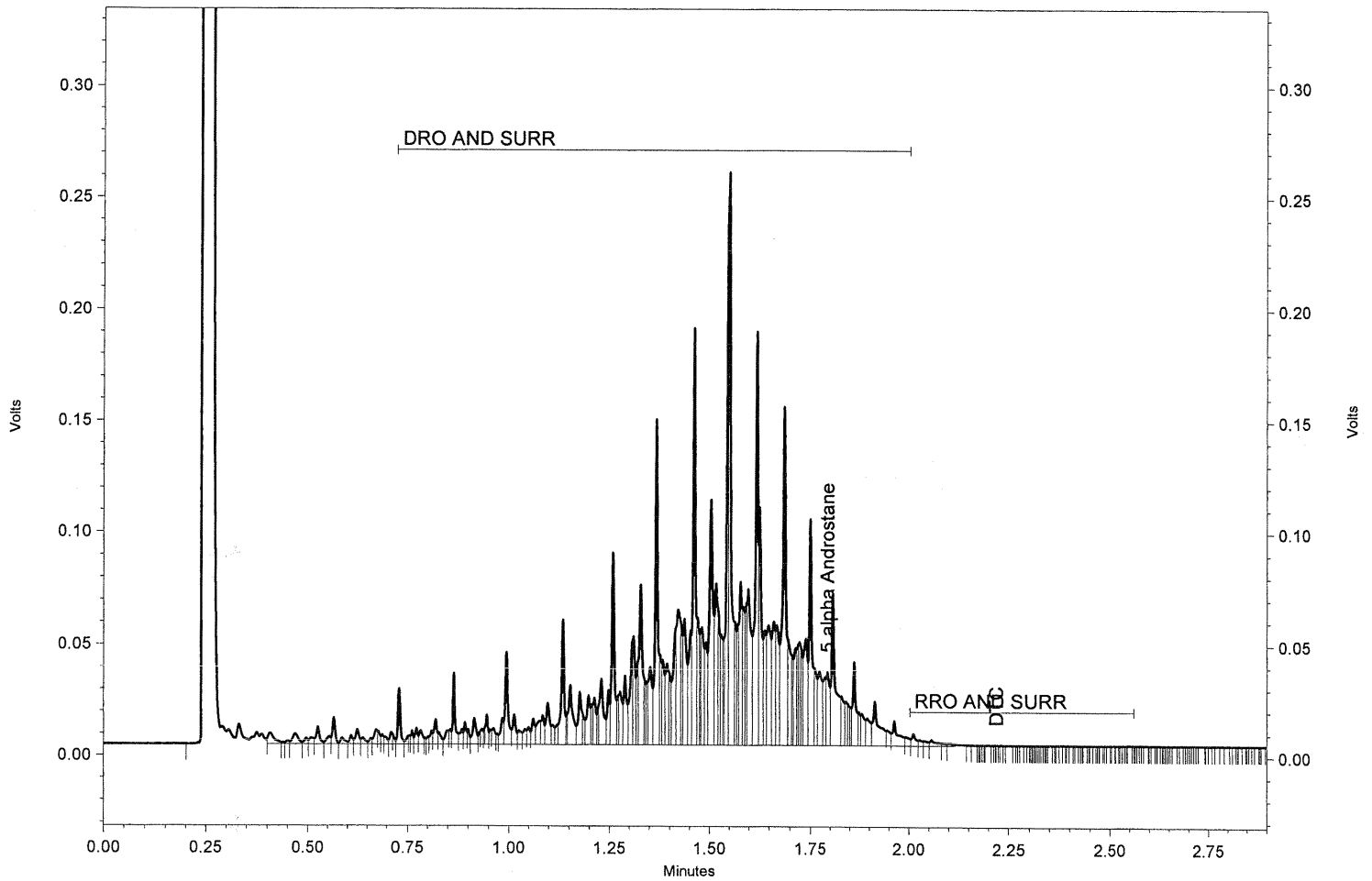
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\07\SD\Method\SDR071106.met

Sample File: E:\Public\2006\07\SD\Data\071106R\SDR07110711_014.DAT

DRO/RRO



Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.793	20352	0.000 CAL	LL	
DTC	2.219	122	0.000 CAL	LL	
DRO		2259029	10000.000 CAL		mg/L
RRO		20782	0.000 CAL		mg/L
DRO AND SURR		2259029	10000.000 CAL		mg/L
RRO AND SURR		20782	0.000 CAL		mg/L

SGS Environmental Services Inc.

Sample Name: DRO 20000

Date/Time: 7/11/2006 12:53:10 PM

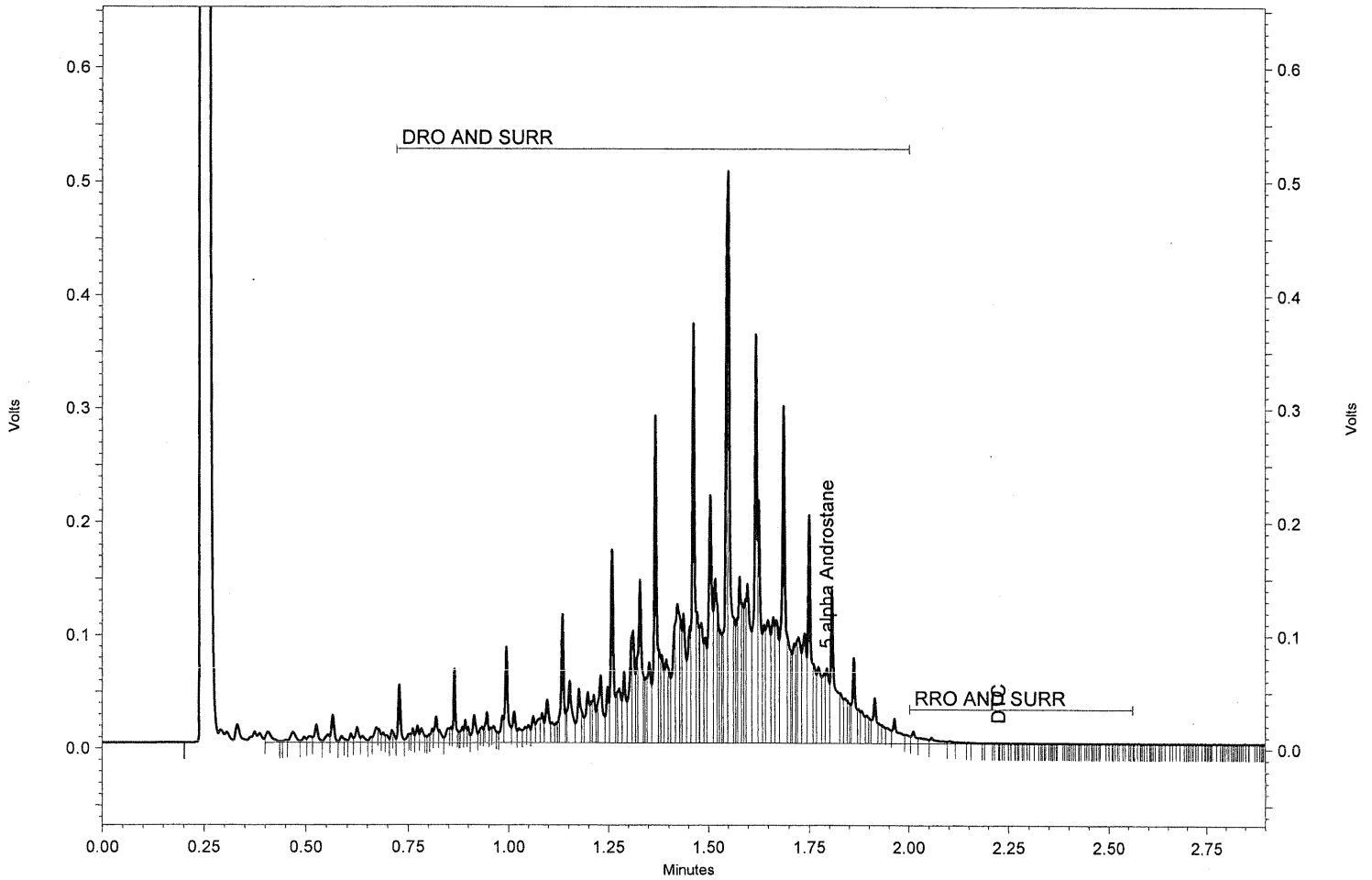
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\07\SD\Method\SDR071106.met

Sample File: E:\Public\2006\07\SD\Data\071106R\SDR07110711_015.DAT

DRO/RRO



Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.794	40264	0.000 CAL	LL	
DTC	2.225	63	0.000 CAL	LL	
DRO		4539552	20000.000 CAL		mg/L
RRO		36450	0.000 CAL		mg/L
DRO AND SURR		4539552	20000.000 CAL		mg/L
RRO AND SURR		36450	0.000 CAL		mg/L

SGS Environmental Services Inc.

Sample Name: RRO 500

Date/Time: 7/11/2006 1:24:33 PM

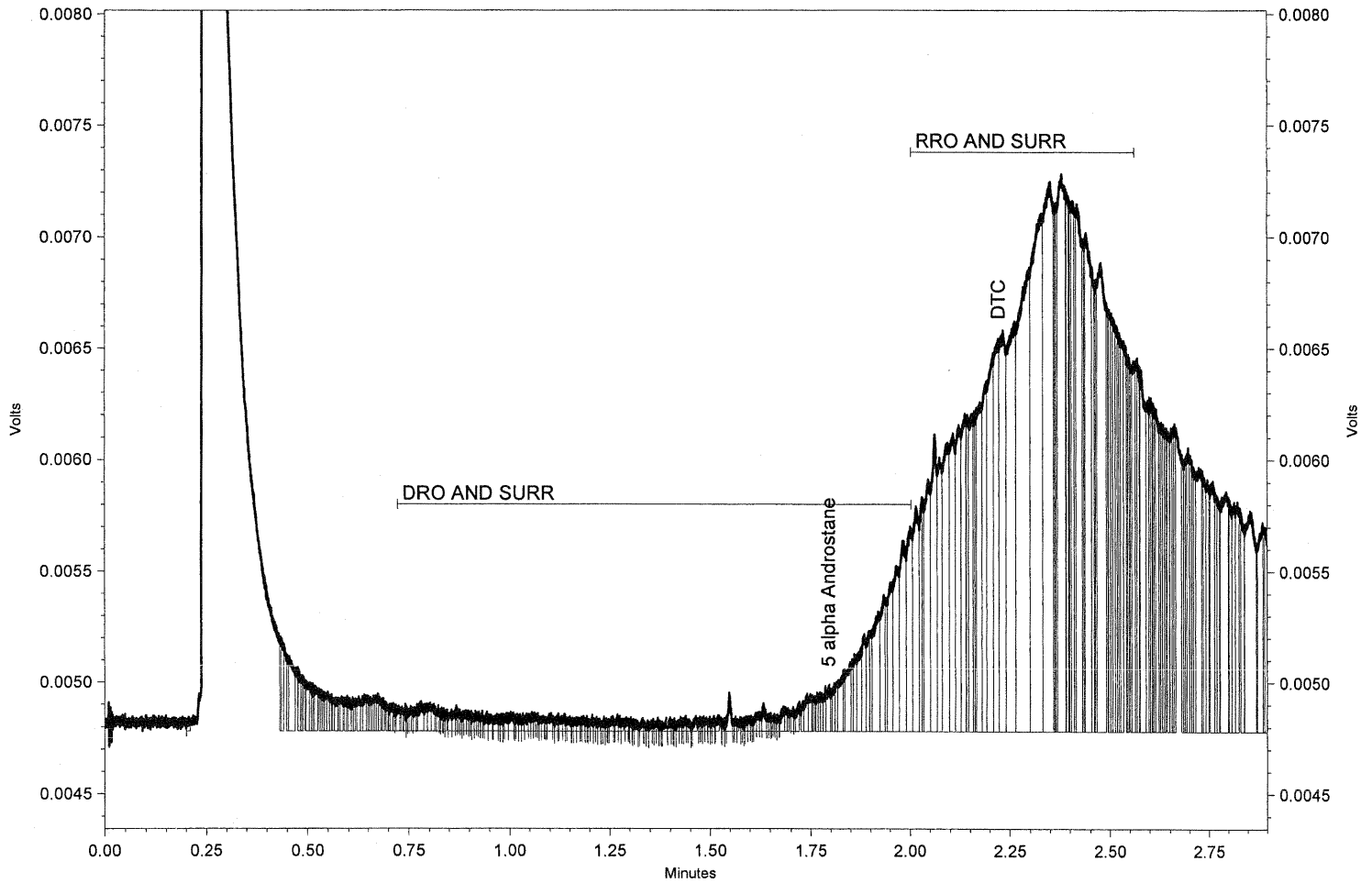
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\07\SD\Method\SDR071106.met

Sample File: E:\Public\2006\07\SD\Data\071106R\SDR07110711_017.DAT

DRO/RRO



Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.794	122	0.000 CAL	LL	
DTC	2.222	1444	0.000 CAL	LL	
DRO		9775	0.000 CAL		mg/L
RRO		56839	500.000 CAL		mg/L
DRO AND SURR		9775	0.000 CAL		mg/L
RRO AND SURR		56839	500.000 CAL		mg/L

SGS Environmental Services Inc.

Sample Name: RRO 1000

Date/Time: 7/11/2006 1:29:46 PM

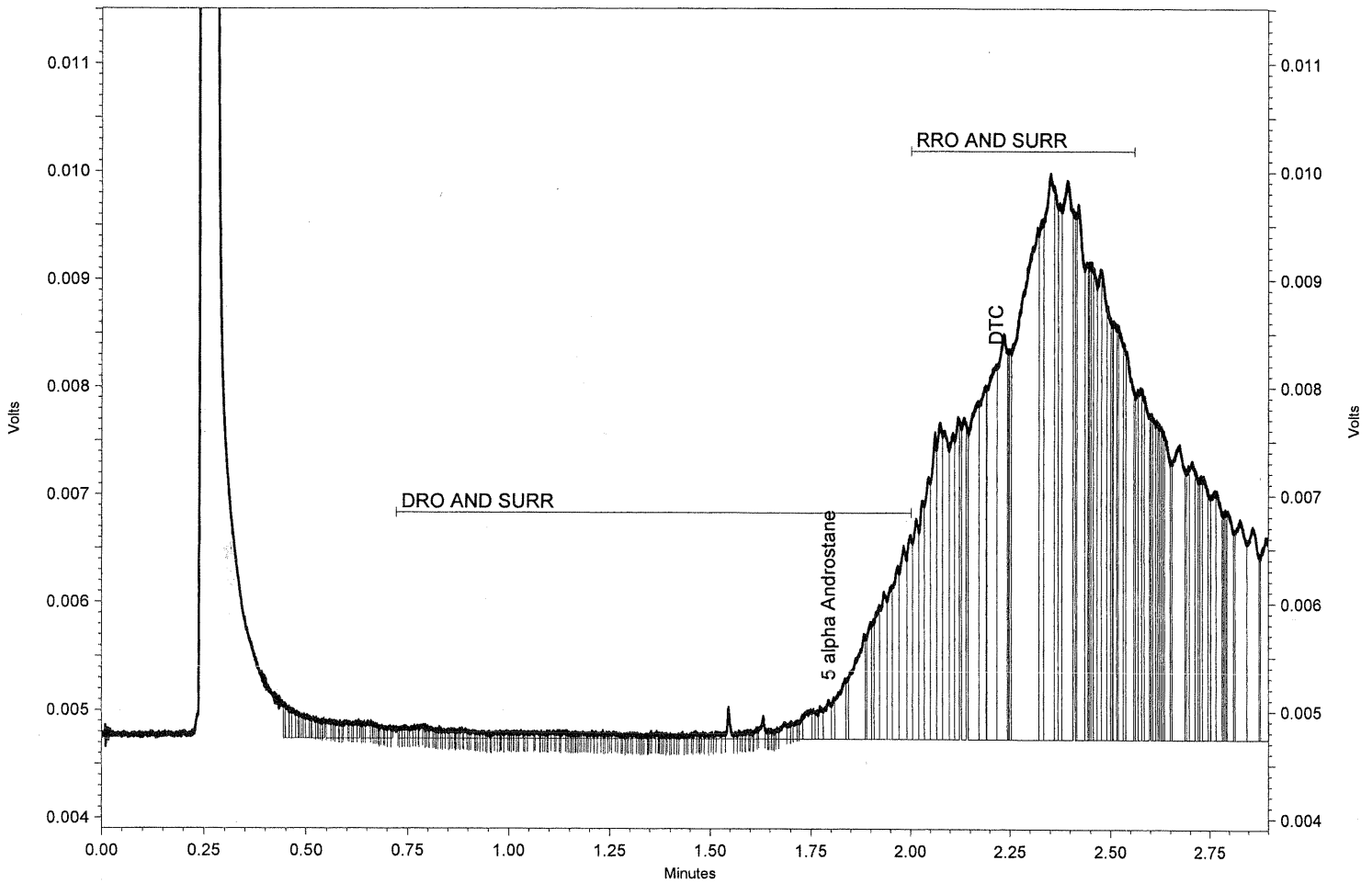
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\07\SD\Method\SDR071106.met

Sample File: E:\Public\2006\07\SD\Data\071106R\SDR07110711_018.DAT

DRO/RRO



Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.794	379	0.000 CAL	LL	
DTC	2.215	4996	0.000 CAL	LL	
DRO		17624	0.000 CAL		mg/L
RRO		120513	1000.000 CAL		mg/L
DRO AND SURRE		17624	0.000 CAL		mg/L
RRO AND SURRE		120513	1000.000 CAL		mg/L

SGS Environmental Services Inc.

Sample Name: RRO 5000

Date/Time: 7/11/2006 1:35:10 PM

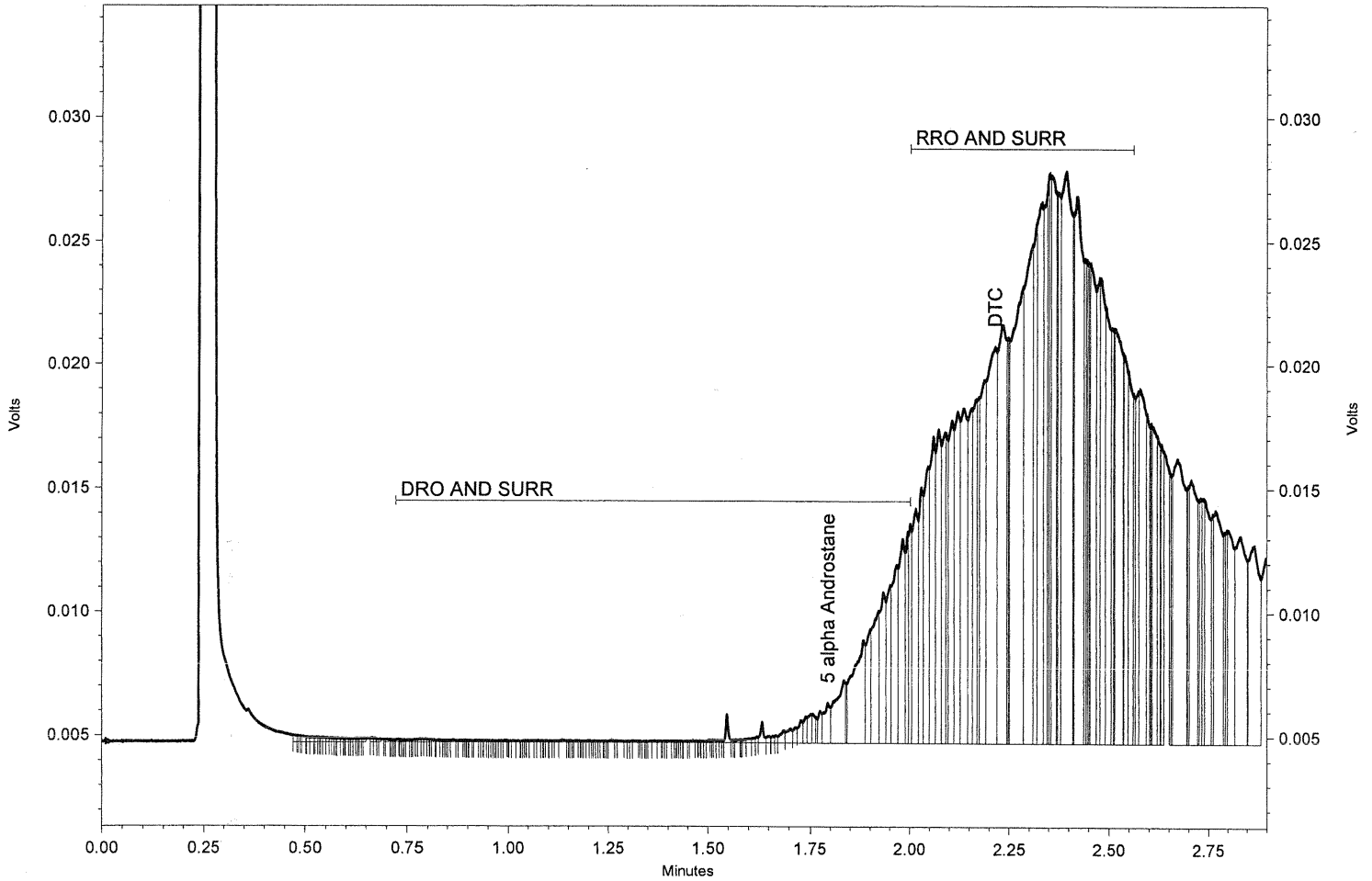
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\07\SD\Method\SDR071106.met

Sample File: E:\Public\2006\07\SD\Data\071106R\SDR07110711_019.DAT

DRO/RRO



Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.794	1738	0.000 CAL	LL	
DTC	2.215	25839	0.000 CAL	LL	
DRO		69900	0.000 CAL		mg/L
RRO		552545	5000.000 CAL		mg/L
DRO AND SURR		69900	0.000 CAL		mg/L
RRO AND SURR		552545	5000.000 CAL		mg/L

SGS Environmental Services Inc.

Sample Name: RRO 10000

Date/Time: 7/11/2006 1:40:22 PM

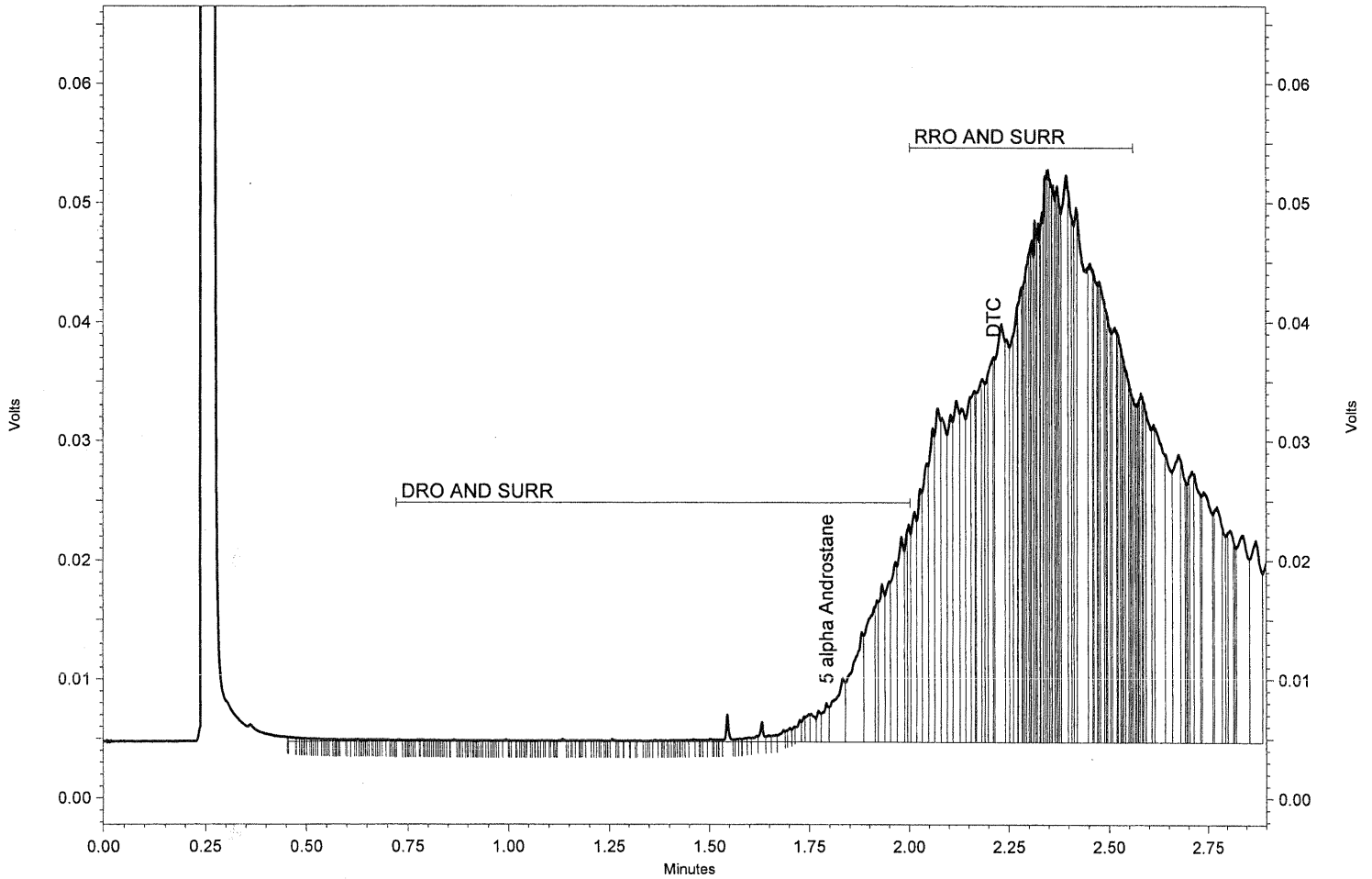
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\07\SD\Method\SDR071106.met

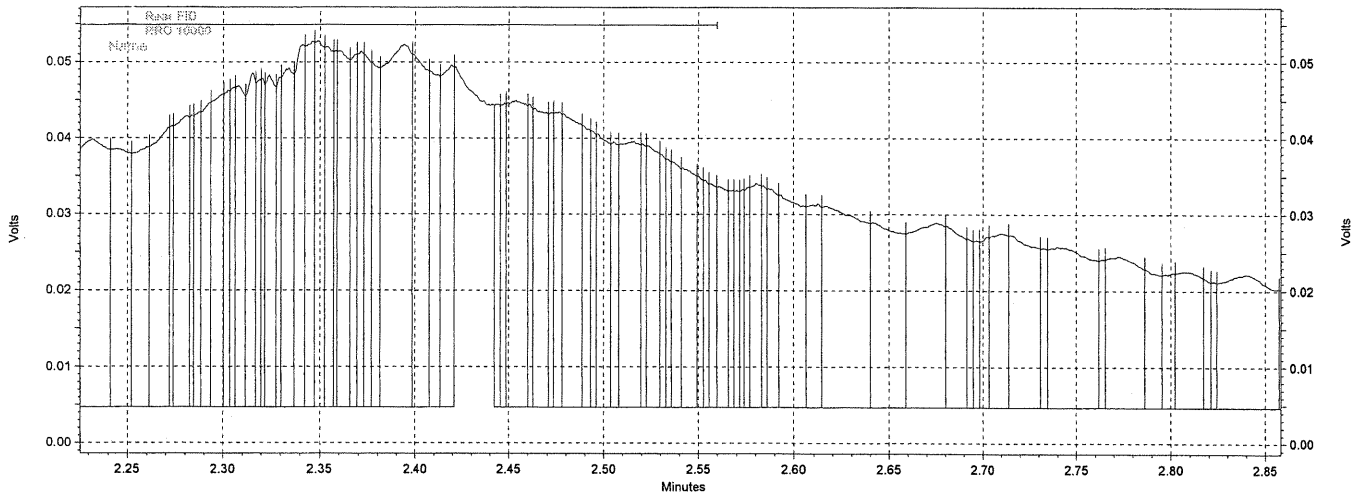
Sample File: E:\Public\2006\07\SD\Data\071106R\SDR07110711_020.DAT

DRO/RRO



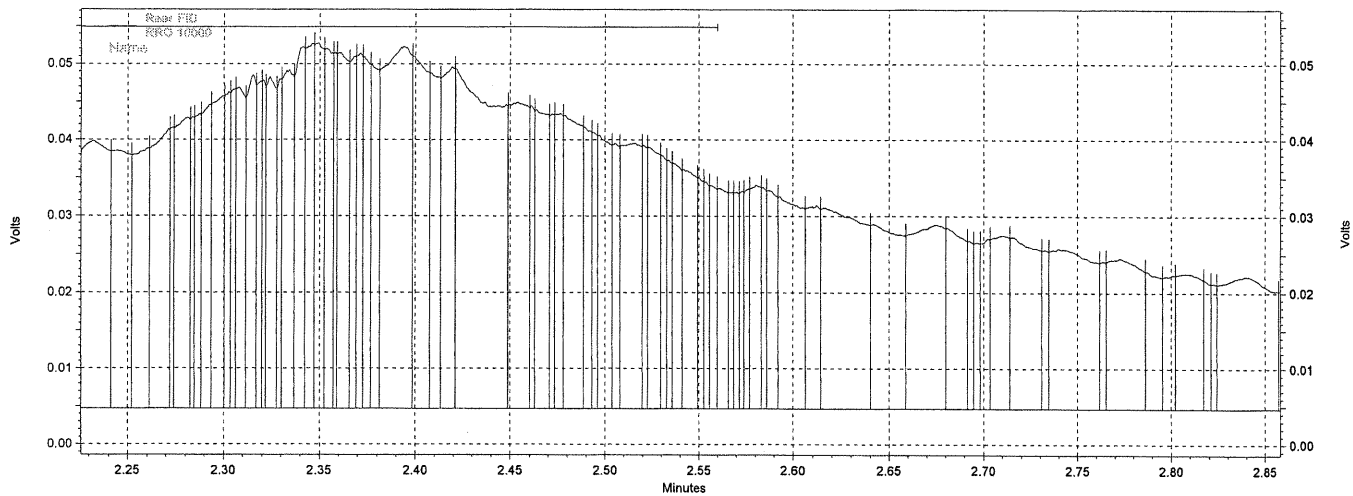
Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.792	3204	0.000 CAL	LL	
DTC	2.213	8384	0.000 CAL	LL	
DRO		143026	0.000 CAL		mg/L
RRO		1147670	10000.000 CAL		mg/L
DRO AND SURRE		146230	0.000 CAL		mg/L
RRO AND SURRE		1147670	10000.000 CAL		mg/L



— E:\Public\2006\07\SD\Data\071106R\SDR07110711_020.DAT, Rear FID

WFO before
7/26/06
m



— E:\Public\2006\07\SD\Data\071106R\SDR07110711_020.DAT, Rear FID

Rear
after
7/21/06
ca

SGS Environmental Services Inc.

Sample Name: RRO 20000

Date/Time: 7/11/2006 1:45:35 PM

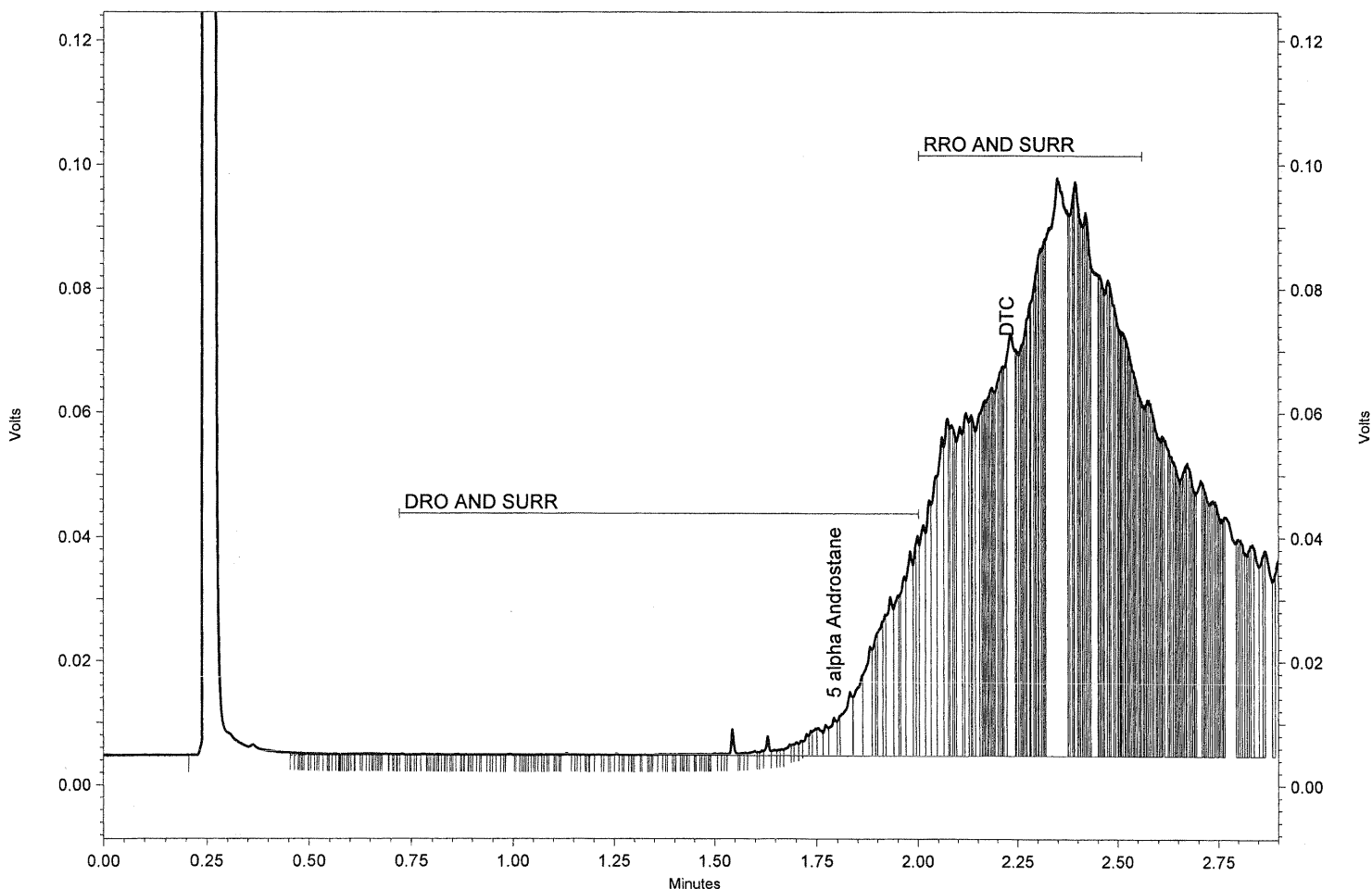
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\07\SD\Method\SDR071106.met

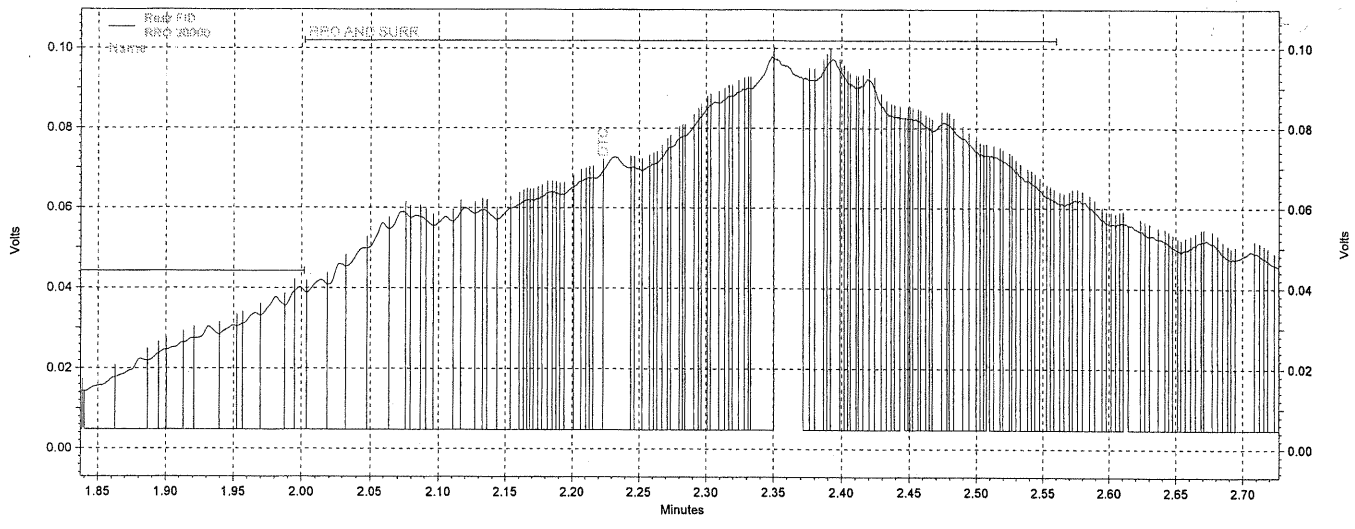
Sample File: E:\Public\2006\07\SD\Data\071106R\SDR07110711_021.DAT

DRO/RRO



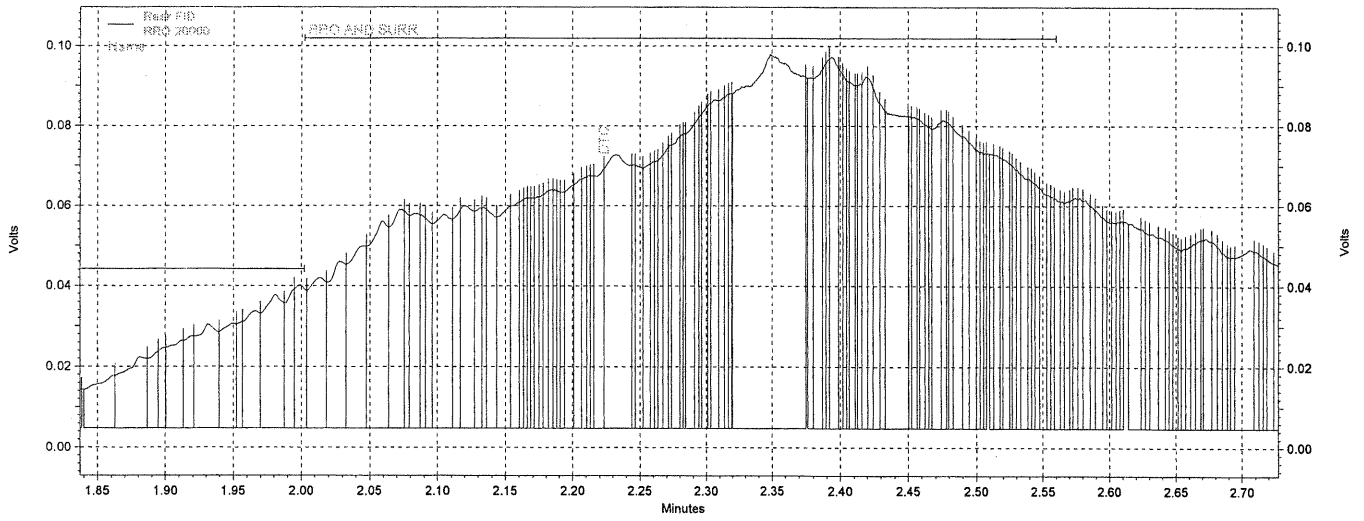
Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.792	6485	0.000 CAL	LL	
DTC	2.223	29056	0.000 CAL	LL	
DRO		277627	0.000 CAL		mg/L
RRO		2219220	20000.000 CAL		mg/L
DRO AND SURR		277627	0.000 CAL		mg/L
RRO AND SURR		2219220	20000.000 CAL		mg/L



E:\Public\2006\07\SD\Data\071106R\SDR07110711_021.DAT, Rear FID

Before 7/11/06
m



— E:\Public\2006\07\SD\Data\071106R\SDR07110711_021.DAT, Rear FID

*After 7/11/06
cm*

SGS Environmental Services Inc.

Sample Name: DRO 300

Date/Time: 7/11/2006 2:17:01 PM

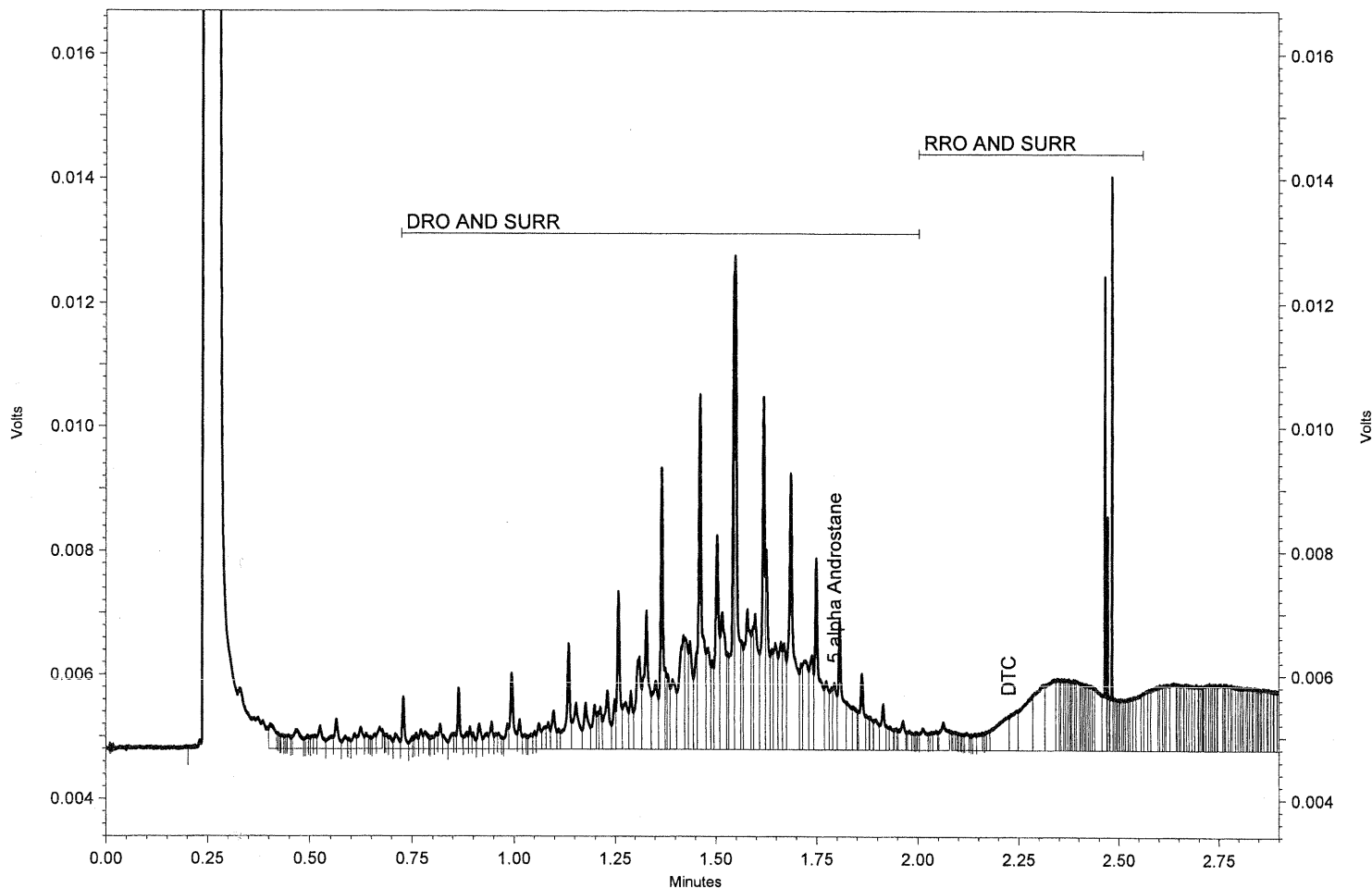
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\07\SD\Method\SDR071106.met

Sample File: E:\Public\2006\07\SD\Data\071106R\SDR07110711_023.DAT

DRO/RRO



Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.793	681	0.000 CAL	LL	
DTC	2.225	1272	0.000 CAL	LL	
DRO		73136	300.000 CAL		mg/L
RRO		22985	0.000 CAL		mg/L
DRO AND SURR		73136	300.000 CAL		mg/L
RRO AND SURR		22985	0.000 CAL		mg/L

SGS Environmental Services Inc.

Sample Name: ICVB

Date/Time: 7/11/2006 2:22:16 PM

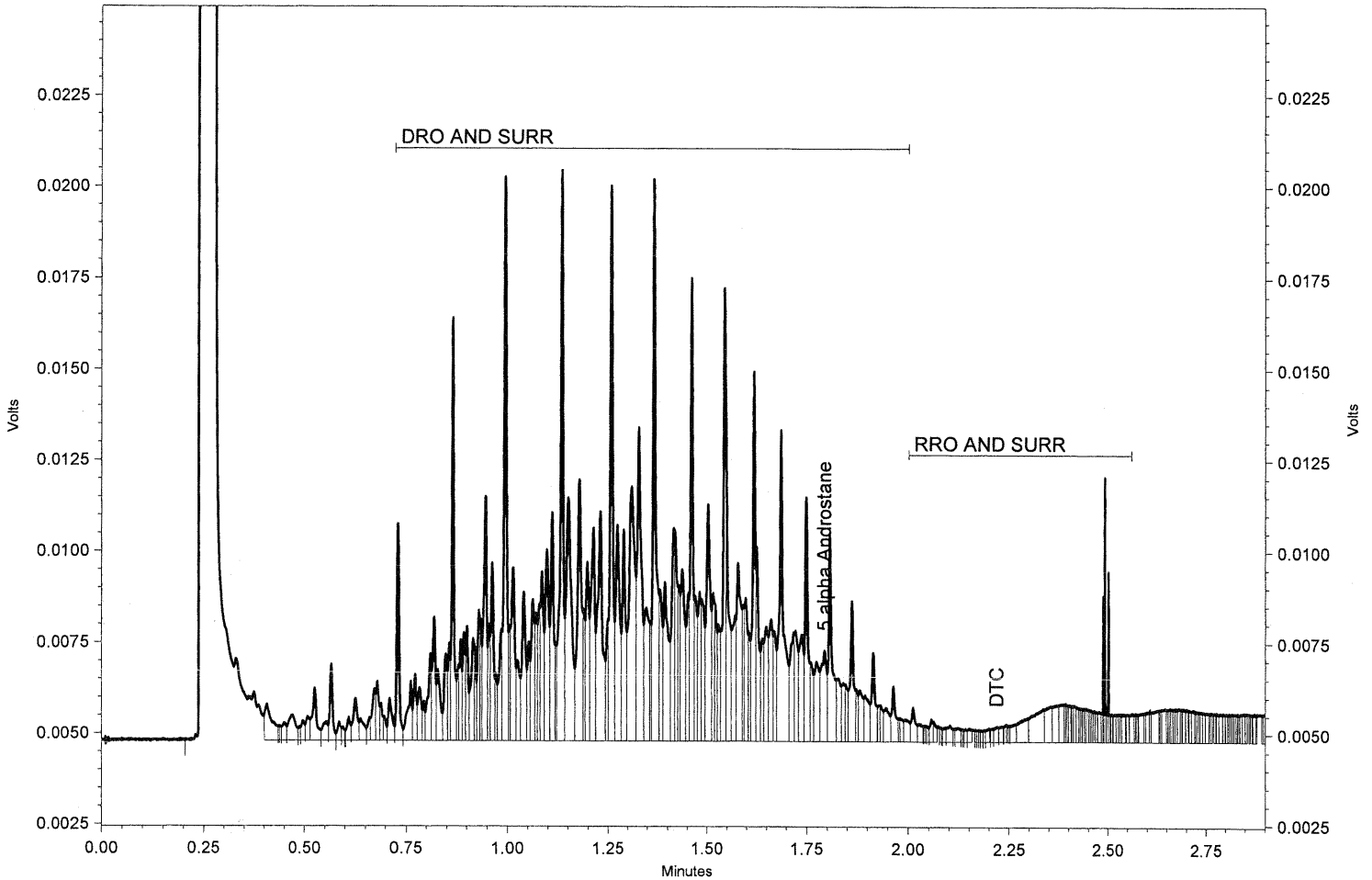
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\07\SD\Method\SDR071106.met

Sample File: E:\Public\2006\07\SD\Data\071106R\SDR07110711_024.DAT

DRO/RRO



Rear FID Results

Name	R.T.	Area	Amount	IC	<i>TH</i>	Units	%
5 alpha Androstane	1.793	2365	9.561	LL			
DTC	2.219	293	1.508	LL			
DRO		252852	1093.547			mg/L	
RRO		20906	184.990 LC			mg/L	
DRO AND SURRE		252852	1093.547		<i>1000</i>	mg/L	<i>109</i>
RRO AND SURRE		20906	184.990 LC			mg/L	

sm 7/10/06

SGS Environmental Services Inc.

Sample Name: ICVR

Date/Time: 7/11/2006 2:27:28 PM

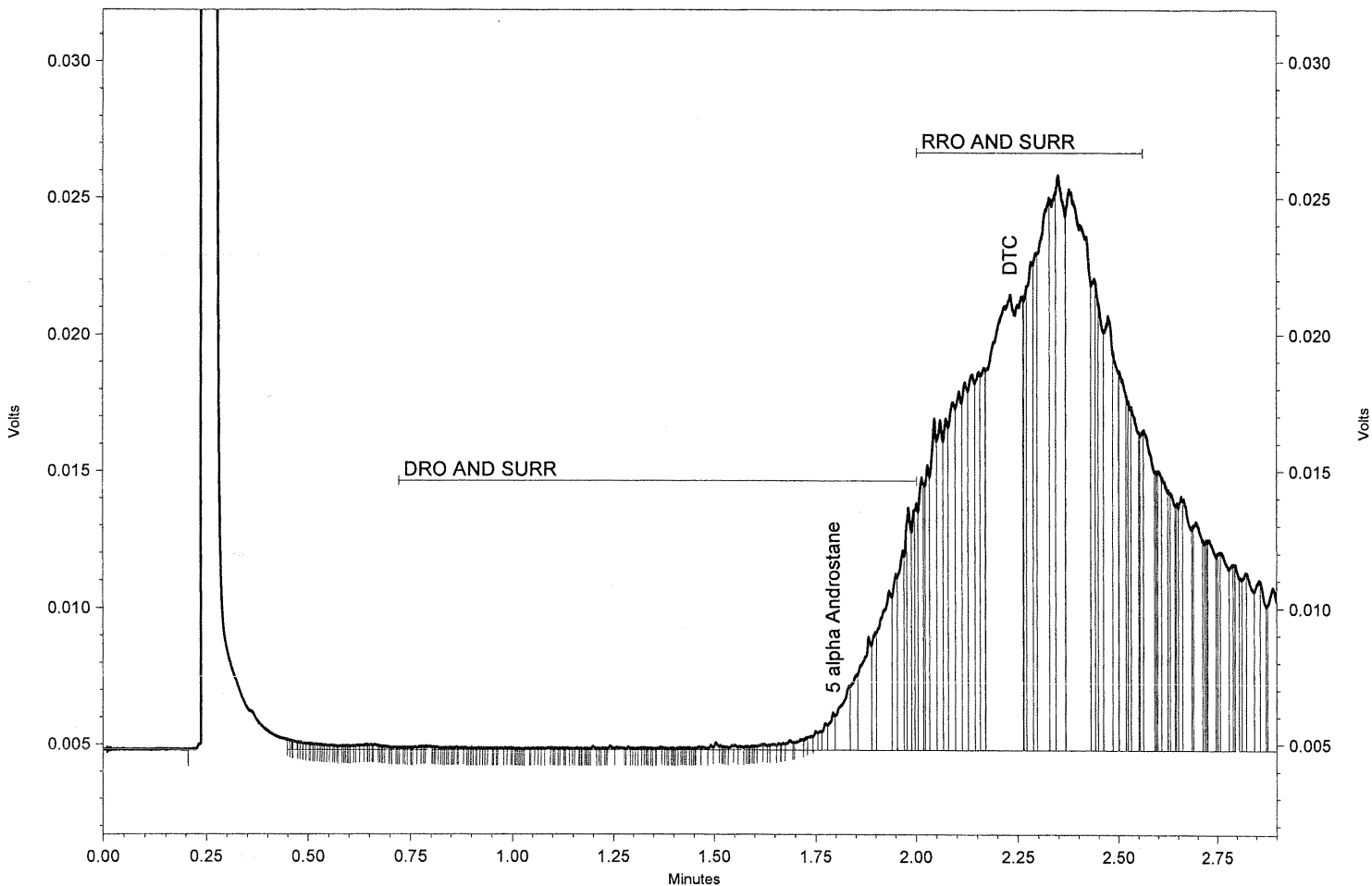
Analyst: MCM

Dilution: 1

Method: E:\Public\2006\07\SD\Method\SDR071106.met

Sample File: E:\Public\2006\07\SD\Data\071106R\SDR07110711_025.DAT

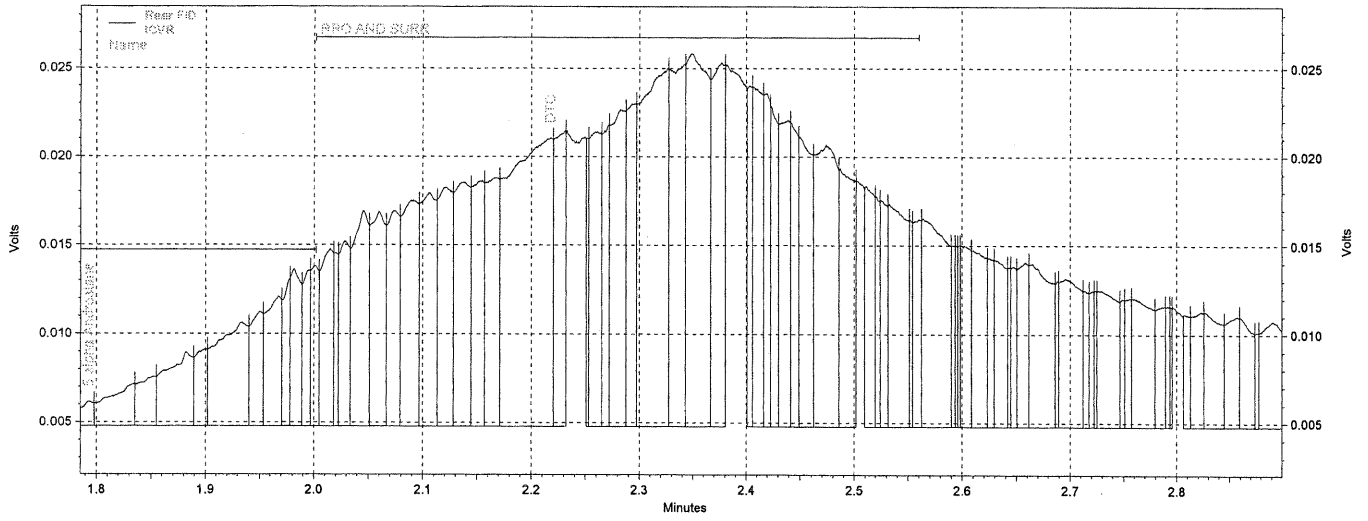
DRO/RRO



Rear FID Results

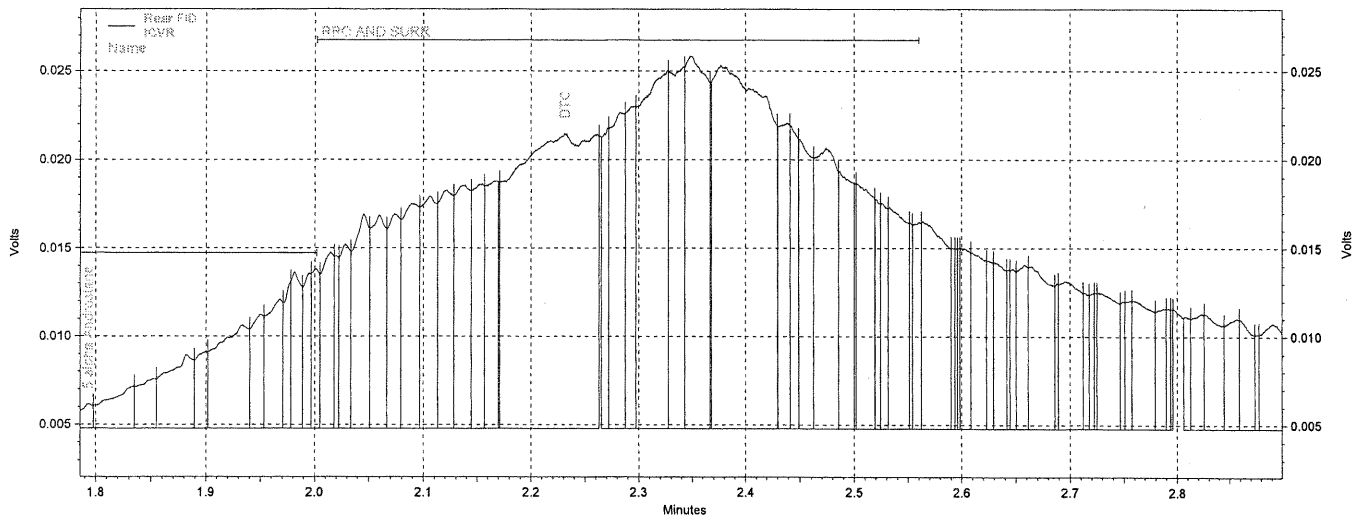
Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.793	1295	5.235	LL	
DTC	2.231	87469	450.102	LL	
DRO		66526	287.715	LC	mg/L
RRO		510178	4471.888		mg/L
DRO AND SURR		67821	293.316	LC	mg/L
RRO AND SURR		510178	4471.888		mg/L

me
 5000
me 7/24/06
 89



— E:\Public\2006\07\SD\Data\071106R\SDR07110711_025.DAT, Rear FID

Before 7/11/06
m



— E:\Public\2006\07\SD\Data\071106R\SDR07110711_025.DAT, Rear FID

After 7/1/02
m



CDS

CP 7/20/06

JUL 20 2006

Scanned

SAF 71906

Method: AK102/103

Date: 7-19-06

Inst: SAF

Contents

Chromatograms and method reports for IB, NAS, ICV and Cal Std

Analyst
Initials

Reviewer
Initials

je

MM

Calibration reports for Surr/DRO/RRO

je

MM

Runlog

je

MM

Validation:

IB and NAS have been run in the beginning of the sequence

je

MM

The retention time group window set correctly

DRO - C10 - Beg C25

RRO - C25 - C36

8015 B DRO C10 - C28

8015 B RRO C28 - C36

je

MM

je

MM

NA

NA

The calibration curve contains at least 5 points.

je

MM

The percent relative standard deviation of the response factor is <25% or r^2 >0.99

je

MM

Dates are correct

je

MM

Force through zero is off

je

MM

The ICV is 75%-125% recovery

je

MM

The audit trail is on

je

DRO/RRO named peak box is unchecked

je

Hand calculate concentration of DRO/RRO of ICV using AREA / RF. Show work below

DRO RF = 400.304
RRO RF = 232.935
DRO $431174 / 400.304 = 1077.116$
RRO $1004508 / 232.935 = 4312.896$

DRO RF = 400.3
RRO RF = 232.9
 $14906 / 400.3 = 37.237$
 $1004508 / 232.9 = 4312$

Calibration Report

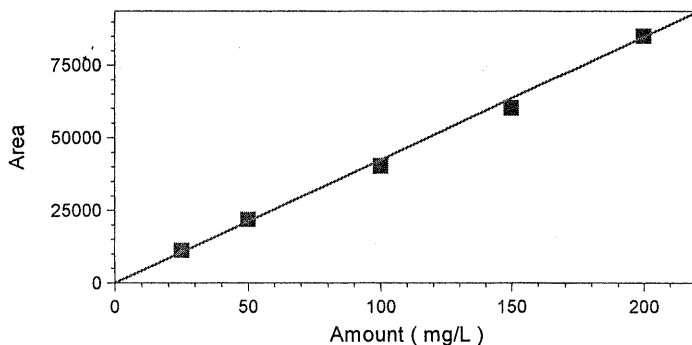
Method: E:\Public\2006\07\SA\Method\SAF071906.met
 Print Time: 7/19/2006 3:14:49 PM
 User: JE
 Instrument: SA (Offline)

5 alpha Androstane (Front FID)

Average RF: 424.095 RF StDev: 21.5190 RF %RSD: 5.07410
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 424.095

Peak: 5 alpha Androstane -- ESTD -- Front FID



	Level 11	Level 12	Level 13	Level 14	Level 15
Amount	25	50	100	150	200
Area	11275	21915	40358	60252	85183
RF	451	438.3	403.58	401.68	425.915
Last Area					
Residual	-1.58602	-1.67474	4.83736	7.92806	-0.858298
Rep StDev					
Rep %RSD					
Rep 1 Area	11275	21915	40358	60252	85183
Rep 1 User	JE	JE	JE	JE	JE
Rep 1 Data File	E:\Public\2006\07\SA\Data\071906\SAF07080719_013.DAT	E:\Public\2006\07\SA\Data\071906\SAF07080719_014.DAT	E:\Public\2006\07\SA\Data\071906\SAF07080719_015.DAT	E:\Public\2006\07\SA\Data\071906\SAF07080719_016.DAT	E:\Public\2006\07\SA\Data\071906\SAF07080719_017.DAT
Rep 1 Sample ID	SUR 25	SUR 50	SUR 100	SUR 150	SUR 200
Rep 1 Calib. Time	7/19/2006 2:11:40 PM	7/19/2006 2:11:43 PM	7/19/2006 2:11:45 PM	7/19/2006 2:11:48 PM	7/19/2006 2:11:51 PM

Calibration Report

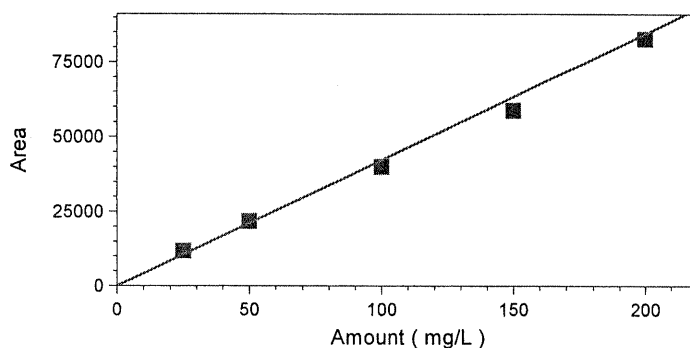
Method: E:\Public\2006\07\SA\Method\SAF071906.met
 Print Time: 7/19/2006 3:15:47 PM
 User: JE
 Instrument: SA (Offline)

DTC (Front FID)

Average RF: 422.655 RF StDev: 31.8027 RF %RSD: 7.52451
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 422.655

Peak: DTC -- ESTD -- Front FID



	Level 11	Level 12	Level 13	Level 14	Level 15
Amount	25	50	100	150	200
Area	11784	21771	40016	58815	82847
RF	471.36	435.42	400.16	392.1	414.235
Last Area					
Residual	-2.8809	-1.5101	5.32231	10.844	3.98434
Rep StDev					
Rep %RSD					
Rep 1 Area	11784	21771	40016	58815	82847
Rep 1 User	JE	JE	JE	JE	JE
Rep 1 Data File	E:\Public\2006\07\SA\Data\071906\SAF07080719_013.DAT	E:\Public\2006\07\SA\Data\071906\SAF07080719_014.DAT	E:\Public\2006\07\SA\Data\071906\SAF07080719_015.DAT	E:\Public\2006\07\SA\Data\071906\SAF07080719_016.DAT	E:\Public\2006\07\SA\Data\071906\SAF07080719_017.DAT
Rep 1 Sample ID	SUR 25	SUR 50	SUR 100	SUR 150	SUR 200
Rep 1 Calib. Time	7/19/2006 2:11:40 PM	7/19/2006 2:11:43 PM	7/19/2006 2:11:45 PM	7/19/2006 2:11:48 PM	7/19/2006 2:11:51 PM

Calibration Report

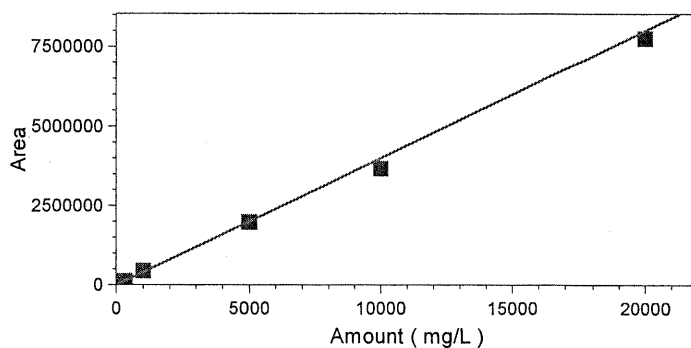
Method: E:\Public\2006\07\SA\Method\SAF071906.met
 Print Time: 7/19/2006 3:15:30 PM
 User: JE
 Instrument: SA (Offline)

DRO (Front FID)

Average RF: 400.304 RF StDev: 27.5723 RF %RSD: 6.88783
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 400.304

Group: DRO -- ESTD -- Front FID



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	300	1000	5000	10000	20000
Area	122141	442008	1985372	3672040	7761970
RF	407.1366666 66667	442.008	397.0744	367.204	388.0985
Last Area					
Residual	-5.12037	-104.18	40.3432	826.879	609.827
Rep StDev					
Rep %RSD					
Rep 1 Area	122141	442008	1985372	3672040	7761970
Rep 1 User	JE	JE	JE	JE	JE
Rep 1 Data File	E:\Public\2006\07\SA\Data\071906\SAF07080719_019.DAT	E:\Public\2006\07\SA\Data\071906\SAF07080719_020.DAT	E:\Public\2006\07\SA\Data\071906\SAF07080719_021.DAT	E:\Public\2006\07\SA\Data\071906\SAF07080719_022.DAT	E:\Public\2006\07\SA\Data\071906\SAF07080719_023.DAT
Rep 1 Sample ID	DRO 300	DRO 1000	DRO 5000	DRO 10000	DRO 20000
Rep 1 Calib. Time	7/19/2006 2:26:11 PM	7/19/2006 2:20:54 PM	7/19/2006 2:20:56 PM	7/19/2006 2:21:00 PM	7/19/2006 2:21:02 PM

Calibration Report

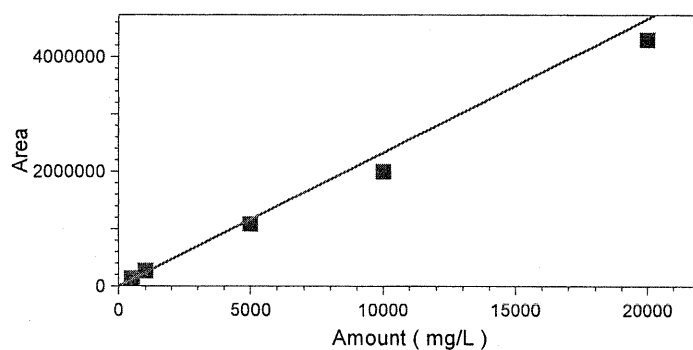
Method: E:\Public\2006\07\SA\Method\SAF071906.met
 Print Time: 7/19/2006 3:15:31 PM
 User: JE
 Instrument: SA (Offline)

RRO (Front FID)

Average RF: 232.935 RF StDev: 31.4595 RF %RSD: 13.5057
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 232.935

Group: RRO -- ESTD -- Front FID



	Level 6	Level 7	Level 8	Level 9	Level 10
Amount	500	1000	5000	10000	20000
Area	134794	263573	1083214	1999954	4297469
RF	269.588	263.573	216.6428	199.9954	214.87345
Last Area					
Residual	-78.6776	-131.533	349.706	1414.09	1550.74
Rep StDev					
Rep %RSD					
Rep 1 Area	134794	263573	1083214	1999954	4297469
Rep 1 User	JE	JE	JE	JE	JE
Rep 1 Data File	E:\Public\2006\07\SA\Data\071906\SAF07080719_025.DAT	E:\Public\2006\07\SA\Data\071906\SAF07080719_026.DAT	E:\Public\2006\07\SA\Data\071906\SAF07080719_027.DAT	E:\Public\2006\07\SA\Data\071906\SAF07080719_028.DAT	E:\Public\2006\07\SA\Data\071906\SAF07080719_029.DAT
Rep 1 Sample ID	RRO 500	RRO 1000	RRO 5000	RRO 10000	RRO 20000
Rep 1 Calib. Time	7/19/2006 2:21:05 PM	7/19/2006 2:21:08 PM	7/19/2006 2:21:11 PM	7/19/2006 2:21:14 PM	7/19/2006 2:21:17 PM

Calibration Report

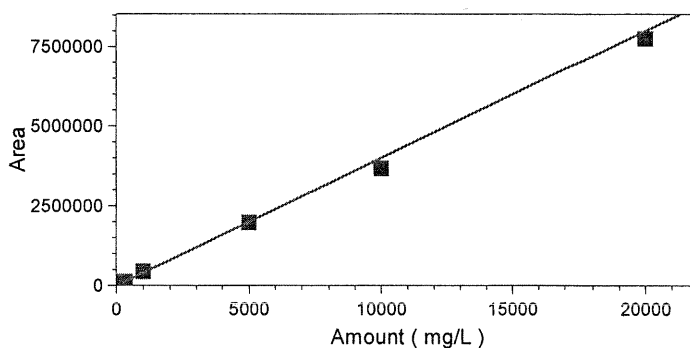
Method: E:\Public\2006\07\SA\Method\SAF071906.met
 Print Time: 7/19/2006 3:15:32 PM
 User: JE
 Instrument: SA (Offline)

DRO AND SURR (Front FID)

Average RF: 400.304 RF StDev: 27.5723 RF %RSD: 6.88783
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 400.304

Group: DRO AND SURR -- ESTD -- Front FID



	Level 1	Level 2	Level 3	Level 4	Level 5
Amount	300	1000	5000	10000	20000
Area	122141	442008	1985372	3672040	7761970
RF	407.1366666 66667	442.008	397.0744	367.204	388.0985
Last Area					
Residual	-5.12037	-104.18	40.3432	826.879	609.827
Rep StDev					
Rep %RSD					
Rep 1 Area	122141	442008	1985372	3672040	7761970
Rep 1 User	JE	JE	JE	JE	JE
Rep 1 Data File	E:\Public\2006\07\SA\Data\071906\SAF07080719_019.DAT	E:\Public\2006\07\SA\Data\071906\SAF07080719_020.DAT	E:\Public\2006\07\SA\Data\071906\SAF07080719_021.DAT	E:\Public\2006\07\SA\Data\071906\SAF07080719_022.DAT	E:\Public\2006\07\SA\Data\071906\SAF07080719_023.DAT
Rep 1 Sample ID	DRO 300	DRO 1000	DRO 5000	DRO 10000	DRO 20000
Rep 1 Calib. Time	7/19/2006 2:26:11 PM	7/19/2006 2:20:54 PM	7/19/2006 2:20:56 PM	7/19/2006 2:21:00 PM	7/19/2006 2:21:02 PM

Calibration Report

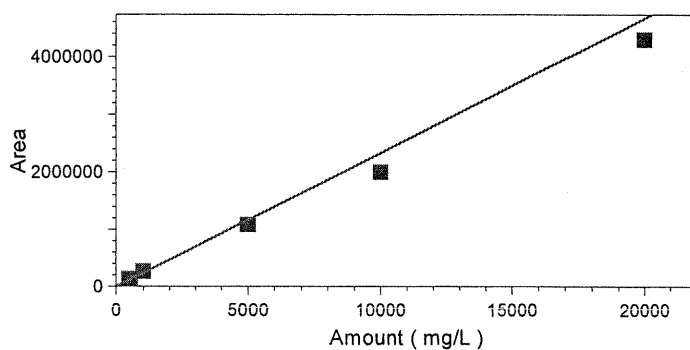
Method: E:\Public\2006\07\SA\Method\SAF071906.met
 Print Time: 7/19/2006 3:15:34 PM
 User: JE
 Instrument: SA (Offline)

RRO AND SURR (Front FID)

Average RF: 232.935 RF StDev: 31.4595 RF %RSD: 13.5057
 Scaling: None LSQ Weighting: None Force Through Zero: Off
 Replicate Mode: Replace
 Fit Type: Average RF

Average Slope: 232.935

Group: RRO AND SURR -- ESTD -- Front FID



	Level 6	Level 7	Level 8	Level 9	Level 10
Amount	500	1000	5000	10000	20000
Area	134794	263573	1083214	1999954	4297469
RF	269.588	263.573	216.6428	199.9954	214.87345
Last Area					
Residual	-78.6776	-131.533	349.706	1414.09	1550.74
Rep StDev					
Rep %RSD					
Rep 1 Area	134794	263573	1083214	1999954	4297469
Rep 1 User	JE	JE	JE	JE	JE
Rep 1 Data File	E:\Public\2006\07\SA\Data\071906\SAF07080719_025.DAT	E:\Public\2006\07\SA\Data\071906\SAF07080719_026.DAT	E:\Public\2006\07\SA\Data\071906\SAF07080719_027.DAT	E:\Public\2006\07\SA\Data\071906\SAF07080719_028.DAT	E:\Public\2006\07\SA\Data\071906\SAF07080719_029.DAT
Rep 1 Sample ID	RRO 500	RRO 1000	RRO 5000	RRO 10000	RRO 20000
Rep 1 Calib. Time	7/19/2006 2:21:05 PM	7/19/2006 2:21:08 PM	7/19/2006 2:21:11 PM	7/19/2006 2:21:14 PM	7/19/2006 2:21:17 PM

Sample ID	Date Acquired	Init	Mult	Instr	Data File	Comments	Area C9
IB	7/19/2006 8:44:24 AM	MCM	1	SA	SAF07080719_001-Rep1.DAT	45277	29259
IB	7/19/2006 8:48:48 AM	MCM	1	SA	SAF07080719_001-Rep2.DAT	45277	522
IB	7/19/2006 8:53:15 AM	MCM	1	SA	SAF07080719_001-Rep3.DAT	45277	318
IB	7/19/2006 8:57:39 AM	MCM	1	SA	SAF07080719_001-Rep4.DAT	45277	285
IB	7/19/2006 9:01:58 AM	MCM	1	SA	SAF07080719_001-Rep5.DAT	45277	339
C10-C26, C28,C3...	7/19/2006 9:06:17 AM	MCM	1	SA	SAF07080719_002.DAT	SVW8-12-8	282119
CCVB	7/19/2006 9:10:38 AM	MCM	1	SA	SAF07080719_003.DAT	SVW8-123-18	0
CCVR	7/19/2006 9:15:01 AM	MCM	1	SA	SAF07080719_004.DAT	SVW8-128-7	8768
IB	7/19/2006 9:19:26 AM	MCM	1	SA	SAF07080719_005.DAT		391
IB	7/19/2006 9:23:51 AM	MCM	1	SA	SAF07080719_006.DAT		292
1063730006 *20	7/19/2006 9:28:16 AM	MCM	20	SA	SAF07080719_007.DAT		1796
CCVB	7/19/2006 9:32:37 AM	MCM	1	SA	SAF07080719_008.DAT		0
CCVR	7/19/2006 9:36:59 AM	MCM	1	SA	SAF07080719_009.DAT		8698
IB	7/19/2006 9:41:23 AM	MCM	1	SA	SAF07080719_010.DAT		464
IB	7/19/2006 9:45:48 AM	MCM	1	SA	SAF07080719_011.DAT		383
IB	7/19/2006 11:29:18 AM	MCM	1	SA	SAF07080719_012.DAT		PEAK....
SUR 25	7/19/2006 11:33:35 AM	MCM	1	SA	SAF07080719_013.DAT	SVW8-133-11	11275
SUR 50	7/19/2006 11:37:54 AM	MCM	1	SA	SAF07080719_014.DAT	SVW8-133-12	21915
SUR 100	7/19/2006 11:41:55 AM	MCM	1	SA	SAF07080719_015.DAT	SVW8-133-13	40358
SUR 150	7/19/2006 11:46:12 AM	MCM	1	SA	SAF07080719_016.DAT	SVW8-133-14	60252
SUR 200	7/19/2006 11:50:33 AM	MCM	1	SA	SAF07080719_017.DAT	SVW8-133-15	85183
IB	7/19/2006 11:55:01 AM	MCM	1	SA	SAF07080719_018-Rep1.DAT		370
IB	7/19/2006 11:59:23 AM	MCM	1	SA	SAF07080719_018-Rep2.DAT		610
IB	7/19/2006 12:03:47 PM	MCM	1	SA	SAF07080719_018-Rep3.DAT		447
IB	7/19/2006 12:08:08 PM	MCM	1	SA	SAF07080719_018-Rep4.DAT		388
IB	7/19/2006 12:12:31 PM	MCM	1	SA	SAF07080719_018-Rep5.DAT		218
DRO 300	7/19/2006 12:16:50 PM	MCM	1	SA	SAF07080719_019.DAT	SVW8-133-1	7521
DRO 1000	7/19/2006 12:21:11 PM	MCM	1	SA	SAF07080719_020.DAT	SVW8-133-2	21155
DRO 5000	7/19/2006 12:25:25 PM	MCM	1	SA	SAF07080719_021.DAT	SVW8 133-3	112307
DRO 10000	7/19/2006 12:29:43 PM	MCM	1	SA	SAF07080719_022.DAT	SVW8-133-4	0
DRO 20000	7/19/2006 12:34:05 PM	MCM	1	SA	SAF07080719_023.DAT	SVW8-133-5	0
IB	7/19/2006 12:38:13 PM	MCM	1	SA	SAF07080719_024-Rep1.DAT		551
IB	7/19/2006 12:42:34 PM	MCM	1	SA	SAF07080719_024-Rep2.DAT		306
IB	7/19/2006 12:47:02 PM	MCM	1	SA	SAF07080719_024-Rep3.DAT		343
IB	7/19/2006 12:51:22 PM	MCM	1	SA	SAF07080719_024-Rep4.DAT		400
IB	7/19/2006 12:55:46 PM	MCM	1	SA	SAF07080719_024-Rep5.DAT		469
RRO 500	7/19/2006 1:00:06 PM	MCM	1	SA	SAF07080719_025.DAT	SVW8-133-6	0
RRO 1000	7/19/2006 1:04:30 PM	MCM	1	SA	SAF07080719_026.DAT	SVW8-133-7	0
RRO 5000	7/19/2006 1:08:48 PM	MCM	1	SA	SAF07080719_027.DAT	SVW8-133-8	8068
RRO 10000	7/19/2006 1:13:07 PM	MCM	1	SA	SAF07080719_028.DAT	SVW8-133-9	14977
RRO 20000	7/19/2006 1:17:30 PM	MCM	1	SA	SAF07080719_029.DAT	SVW8-133-10	30765
IB	7/19/2006 1:21:52 PM	MCM	1	SA	SAF07080719_030-Rep1.DAT		2658
IB	7/19/2006 1:26:00 PM	MCM	1	SA	SAF07080719_030-Rep2.DAT		PEAK....
IB	7/19/2006 1:30:25 PM	MCM	1	SA	SAF07080719_030-Rep3.DAT		PEAK....
IB	7/19/2006 1:34:50 PM	MCM	1	SA	SAF07080719_030-Rep4.DAT		PEAK....
IB	7/19/2006 1:39:13 PM	MCM	1	SA	SAF07080719_030-Rep5.DAT		PEAK....
ICVB	7/19/2006 1:43:34 PM	MCM	1	SA	SAF07080719_031.DAT	SVW8-124-4	3419
ICVR	7/19/2006 1:47:56 PM	MCM	1	SA	SAF07080719_032.DAT	SVW8-125-4	0



SGS Environmental Services

Date: 7-19-06 Inst: Operator: Batch: XFC Analysis: 102/103

SAMPLE ID	DF	Comments	Vials	Data File	Standard ID
IB			1	SAF07080719_001.DAT	45277
C10-C26, C28,C30, C32,C34,C36			2	SAF07080719_002.DAT	SVW8-12-8
CCVB			3	SAF07080719_003.DAT	SVW8-123-18
CCVR			4	SAF07080719_004.DAT	SVW8-128-7
IB			1	SAF07080719_005.DAT	
IB			1	SAF07080719_006.DAT	
1063730006 *20	52/1		5	SAF07080719_007.DAT	
CCVB			3	SAF07080719_008.DAT	
CCVR			4	SAF07080719_009.DAT	
IB			1	SAF07080719_010.DAT	
IB			1	SAF07080719_011.DAT	
IB			1	SAF07080719_012.DAT	
SUR 25			6	SAF07080719_013.DAT	SVW8-133-11
SUR 50			7	SAF07080719_014.DAT	SVW8-133-12
SUR 100			8	SAF07080719_015.DAT	SVW8-133-13
SUR 150			9	SAF07080719_016.DAT	SVW8-133-14
SUR 200			10	SAF07080719_017.DAT	SVW8-133-15
IB			1	SAF07080719_018.DAT	
DRO 300			11	SAF07080719_019.DAT	SVW8-133-1
DRO 1000			12	SAF07080719_020.DAT	SVW8-133-2
DRO 5000			13	SAF07080719_021.DAT	SVW8 133-3
DRO 10000			14	SAF07080719_022.DAT	SVW8-133-4
DRO 20000			15	SAF07080719_023.DAT	SVW8-133-5
IB			1	SAF07080719_024.DAT	
RRO 500			16	SAF07080719_025.DAT	SVW8-133-6
RRO 1000			17	SAF07080719_026.DAT	SVW8-133-7
RRO 5000			18	SAF07080719_027.DAT	SVW8-133-8
RRO 10000			19	SAF07080719_028.DAT	SVW8-133-9
RRO 20000			20	SAF07080719_029.DAT	SVW8-133-10
IB			1	SAF07080719_030.DAT	
ICVB 108			21	SAF07080719_031.DAT	SVW8-124-4
ICVR 86			22	SAF07080719_032.DAT	SVW8-125-4

Standards: _____

SGS Environmental Services Inc.

Sample Name: IB

Date/Time: 7/19/2006 9:01:58 AM

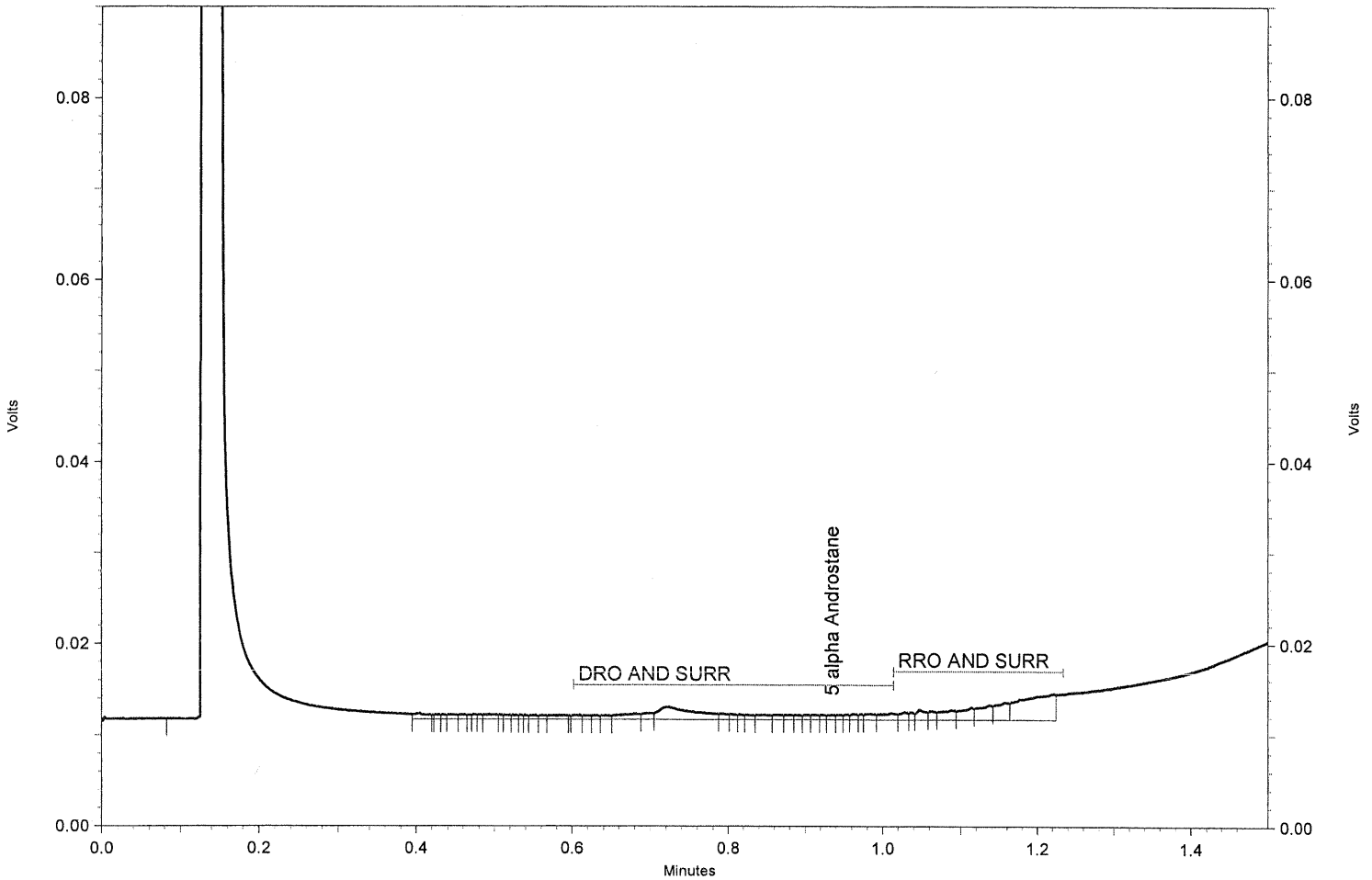
Analyst: JE

Dilution: 1

Method: E:\Public\2006\07\SA\Method\SAF0708061.met

Sample File: E:\Public\2006\07\SA\Data\071906\SAF07080719_001-Rep5.DAT

DRO/RRO



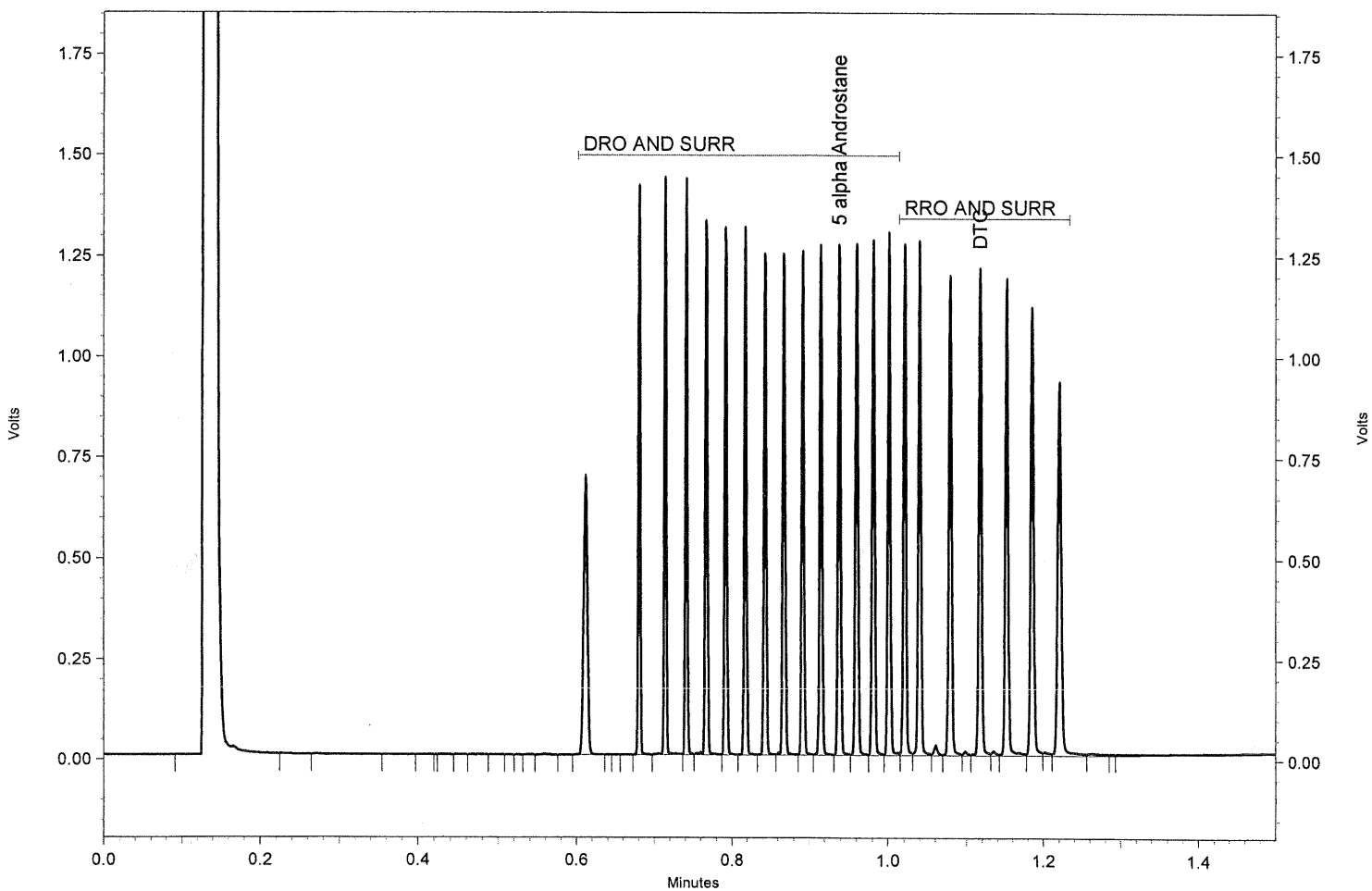
Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.935	339	0.666	LL	mg/L
DRO		14778	34.699 LC		mg/L
RRO		18701	87.879 LC		mg/L
DRO AND SURRE		15117	35.495 LC		mg/L
RRO AND SURRE		18701	87.879 LC		mg/L

SGS Environmental Services Inc.

Sample Name: C10-C26, C28, C30, C32, C34, C36
 Date/Time: 7/19/2006 9:06:17 AM Analyst: JE Dilution: 1
 Method: E:\Public\2006\07\SA\Method\SAF0708061.met
 Sample File: E:\Public\2006\07\SA\Data\071906\SAF07080719_002.DAT

DRO/RRO



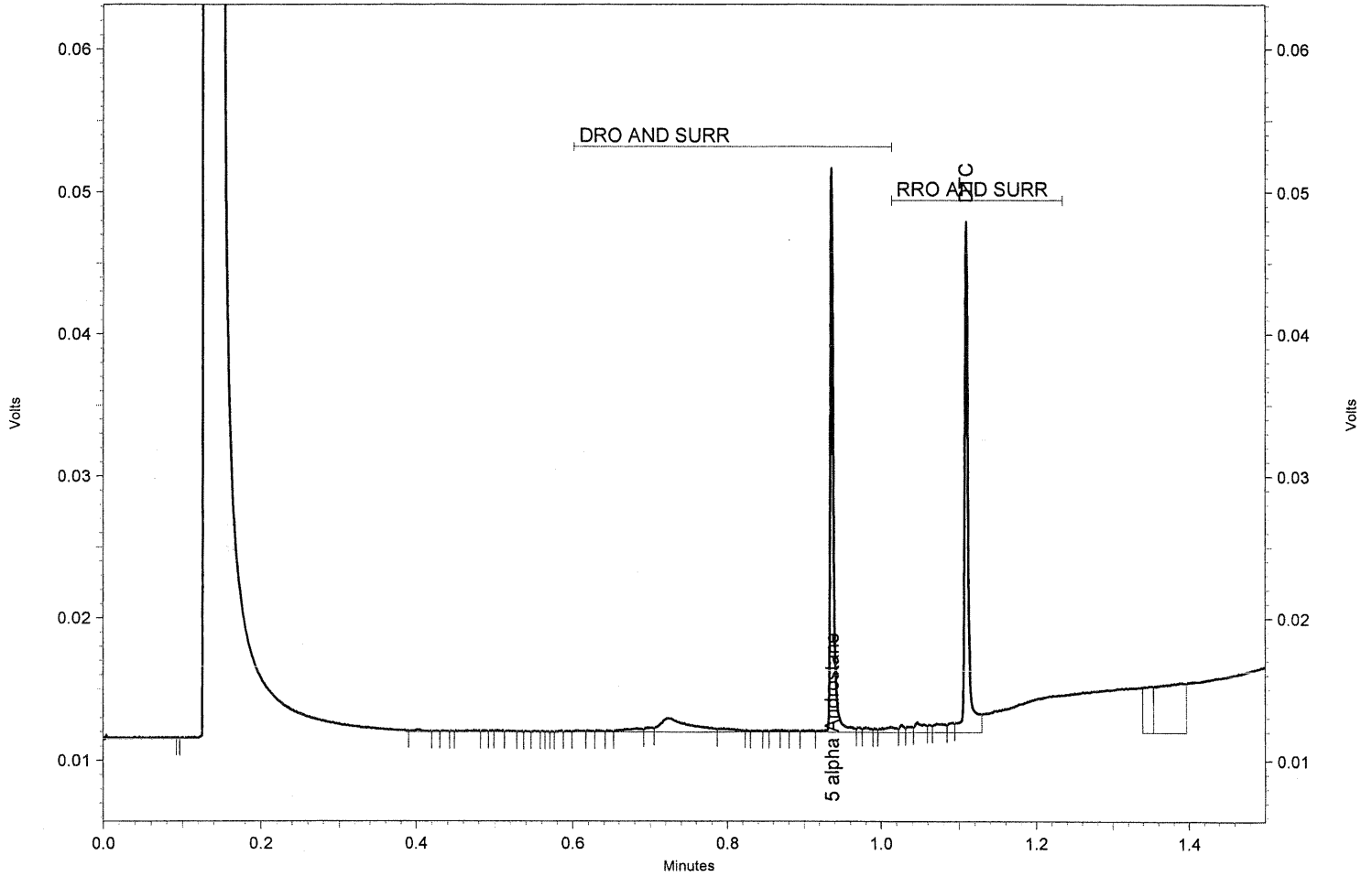
Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.938	282119	554.173	LL	mg/L
DTC	1.118	306614	813.505	LL	mg/L
DRO		3745441	8794.256		mg/L
RRO		1858690	8734.257		mg/L
DRO AND SURRE		4027560	9456.668		mg/L
RRO AND SURRE		2165304	10175.081		mg/L

SGS Environmental Services Inc.

Sample Name: SUR 25
 Date/Time: 7/19/2006 11:33:35 AM Analyst: JE Dilution: 1
 Method: E:\Public\2006\07\SA\Method\SAF071906.met
 Sample File: E:\Public\2006\07\SA\Data\071906\SAF07080719_013.DAT

DRO/RRO



Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.937	11275	25.000 CAL	LL	mg/L
DTC	1.109	11784	25.000 CAL	LL	mg/L
DRO		5367	0.000 CAL		mg/L
RRO		2209	0.000 CAL		mg/L
DRO AND SURRE		16642	0.000 CAL		mg/L
RRO AND SURRE		13993	0.000 CAL		mg/L

SGS Environmental Services Inc.

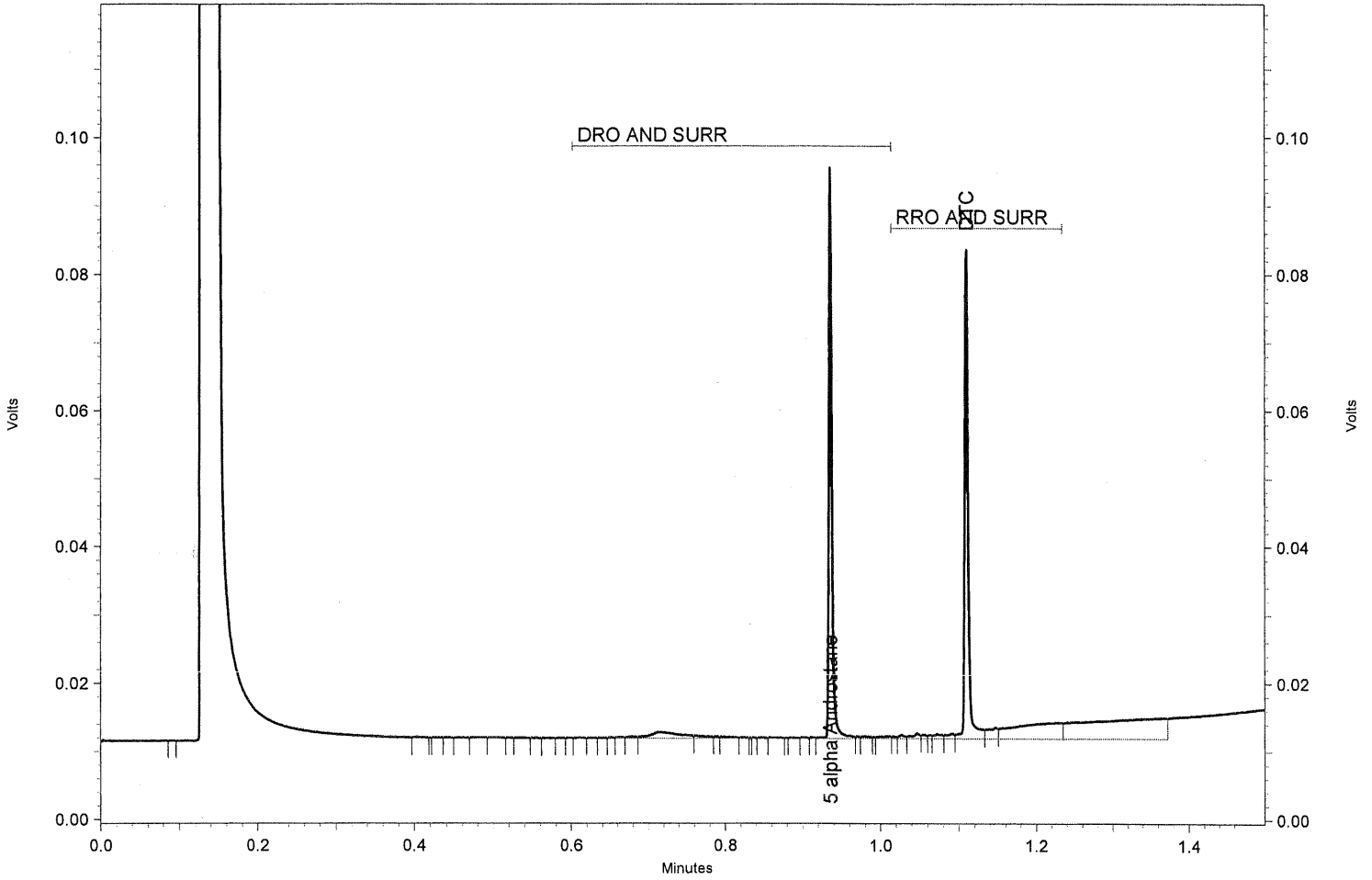
Sample Name: SUR 50

Date/Time: 7/19/2006 11:37:54 AM Analyst: JE Dilution: 1

Method: E:\Public\2006\07\SA\Method\SAF071906.met

Sample File: E:\Public\2006\07\SA\Data\071906\SAF07080719_014.DAT

DRO/RRO



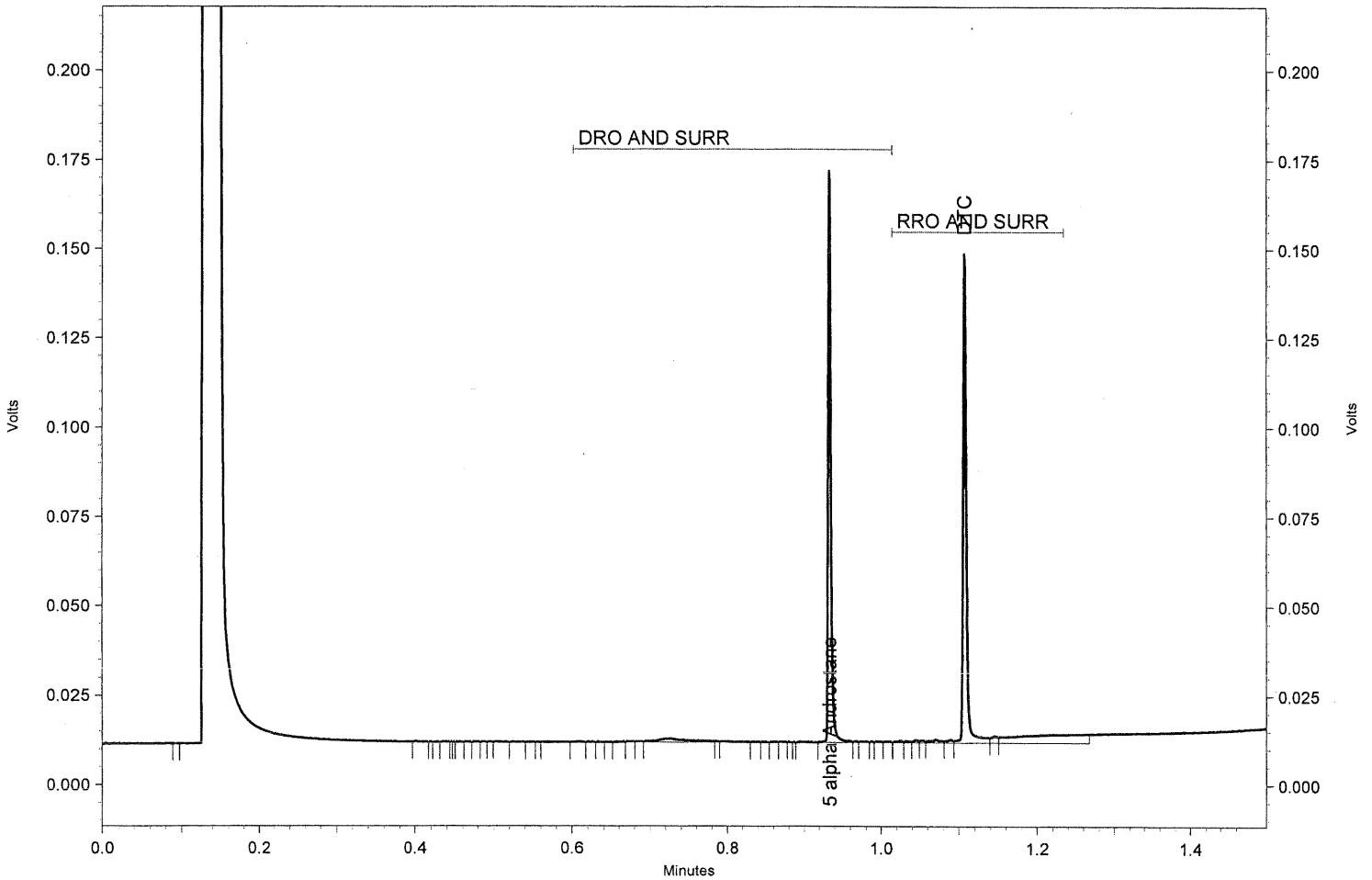
Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.936	21915	50.000 CAL	LL	mg/L
DTC	1.110	21771	50.000 CAL	LL	mg/L
DRO		4978	0.000 CAL		mg/L
RRO		13864	0.000 CAL		mg/L
DRO AND SURRE		26893	0.000 CAL		mg/L
RRO AND SURRE		35635	0.000 CAL		mg/L

SGS Environmental Services Inc.

Sample Name: SUR 100
 Date/Time: 7/19/2006 11:41:55 AM Analyst: JE Dilution: 1
 Method: E:\Public\2006\07\SA\Method\SAF071906.met
 Sample File: E:\Public\2006\07\SA\Data\071906\SAF07080719_015.DAT

DRO/RRO



Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.933	40358	100.000 CAL	LL	mg/L
DTC	1.108	40016	100.000 CAL	LL	mg/L
DRO		5247	0.000 CAL		mg/L
RRO		3535	0.000 CAL		mg/L
DRO AND SURRE		45605	0.000 CAL		mg/L
RRO AND SURRE		43551	0.000 CAL		mg/L

SGS Environmental Services Inc.

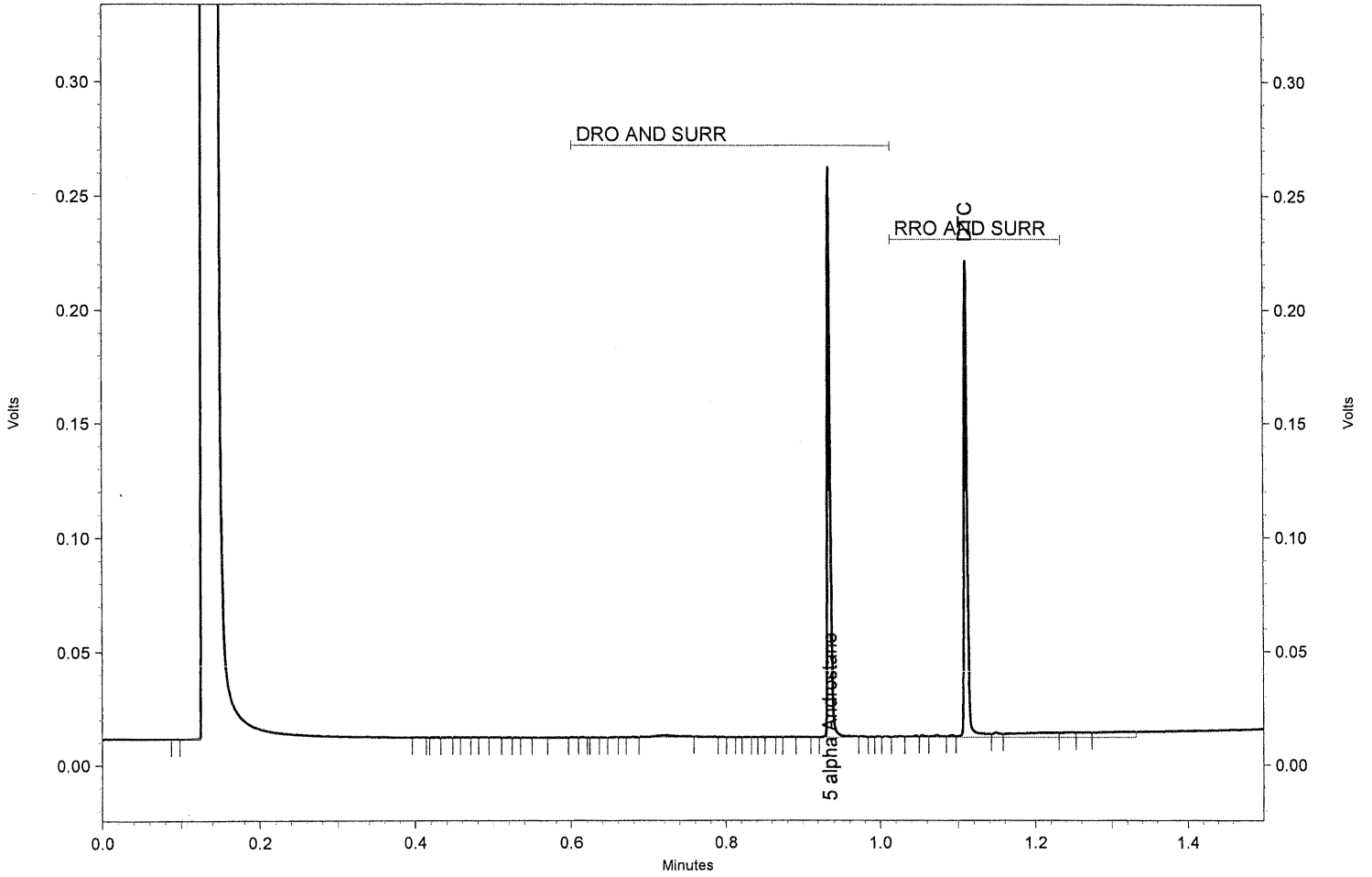
Sample Name: SUR 150

Date/Time: 7/19/2006 11:46:12 AM Analyst: JE Dilution: 1

Method: E:\Public\2006\07\SA\Method\SAF071906.met

Sample File: E:\Public\2006\07\SA\Data\071906\SAF07080719_016.DAT

DRO/RRO



Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.935	60252	150.000 CAL	LL	mg/L
DTC	1.110	58815	150.000 CAL	LL	mg/L
DRO		5128	0.000 CAL		mg/L
RRO		12596	0.000 CAL		mg/L
DRO AND SURRE		65380	0.000 CAL		mg/L
RRO AND SURRE		71411	0.000 CAL		mg/L

SGS Environmental Services Inc.

Sample Name: SUR 200

Date/Time: 7/19/2006 11:50:33 AM

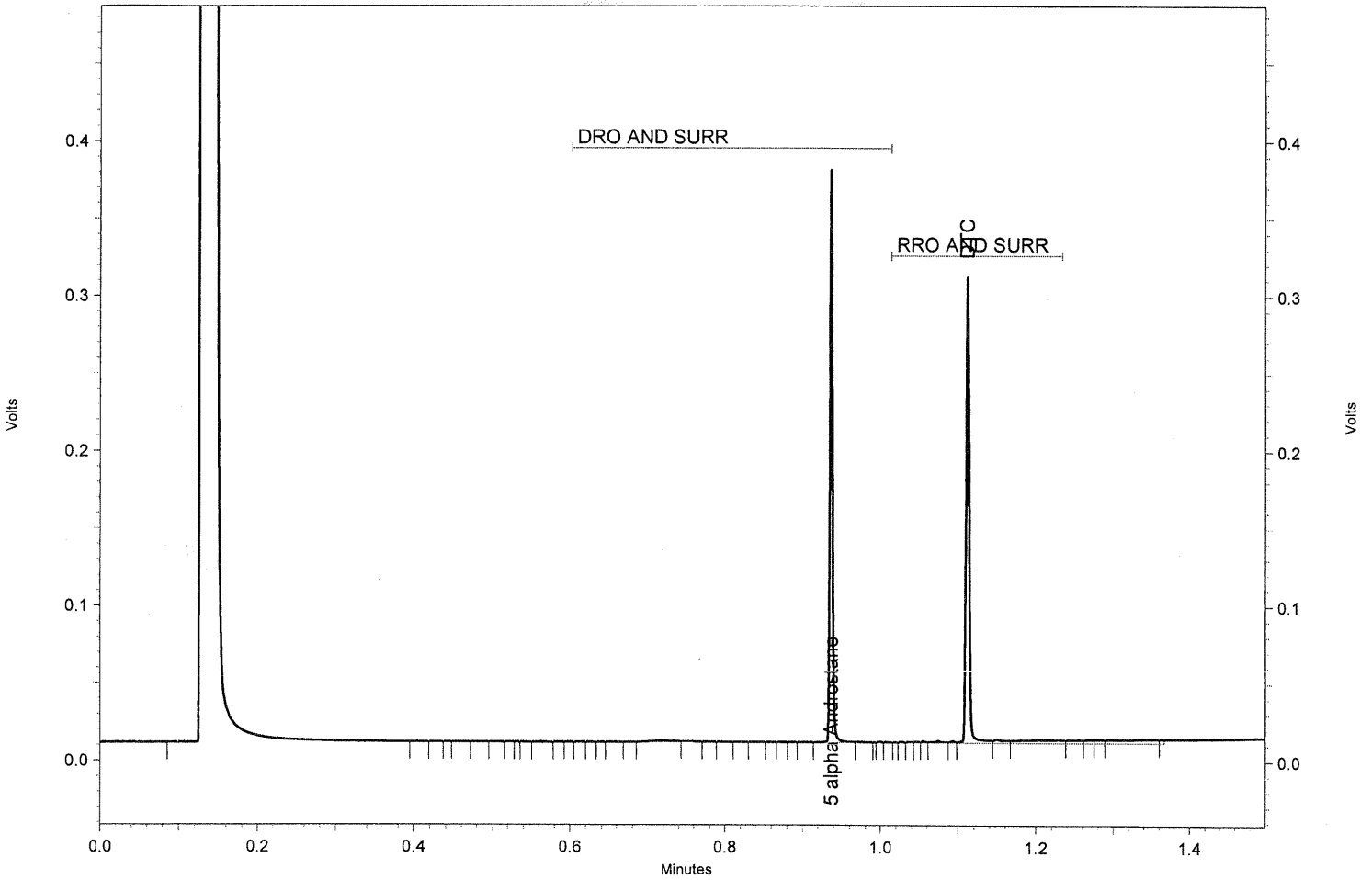
Analyst: JE

Dilution: 1

Method: E:\Public\2006\07\SA\Method\SAF071906.met

Sample File: E:\Public\2006\07\SA\Data\071906\SAF07080719_017.DAT

DRO/RRO



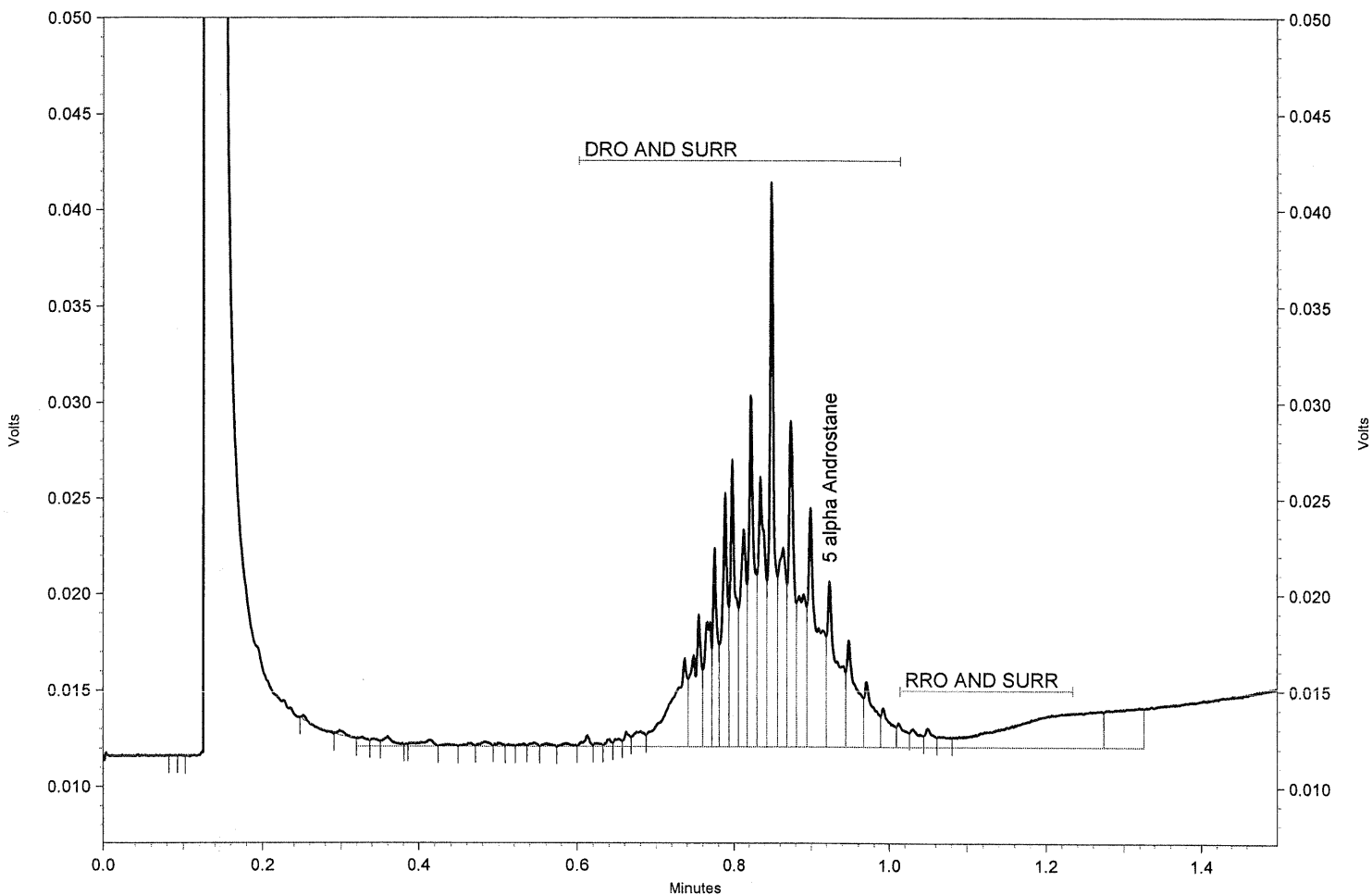
Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.937	85183	200.000 CAL	LL	mg/L
DTC	1.112	82847	200.000 CAL	LL	mg/L
DRO		5381	0.000 CAL		mg/L
RRO		13496	0.000 CAL		mg/L
DRO AND SURRE		90564	0.000 CAL		mg/L
RRO AND SURRE		96343	0.000 CAL		mg/L

SGS Environmental Services Inc.

Sample Name: DRO 300
 Date/Time: 7/19/2006 12:16:50 PM Analyst: JE Dilution: 1
 Method: E:\Public\2006\07\SA\Method\SAF071906.met
 Sample File: E:\Public\2006\07\SA\Data\071906\SAF07080719_019.DAT

DRO/RRO



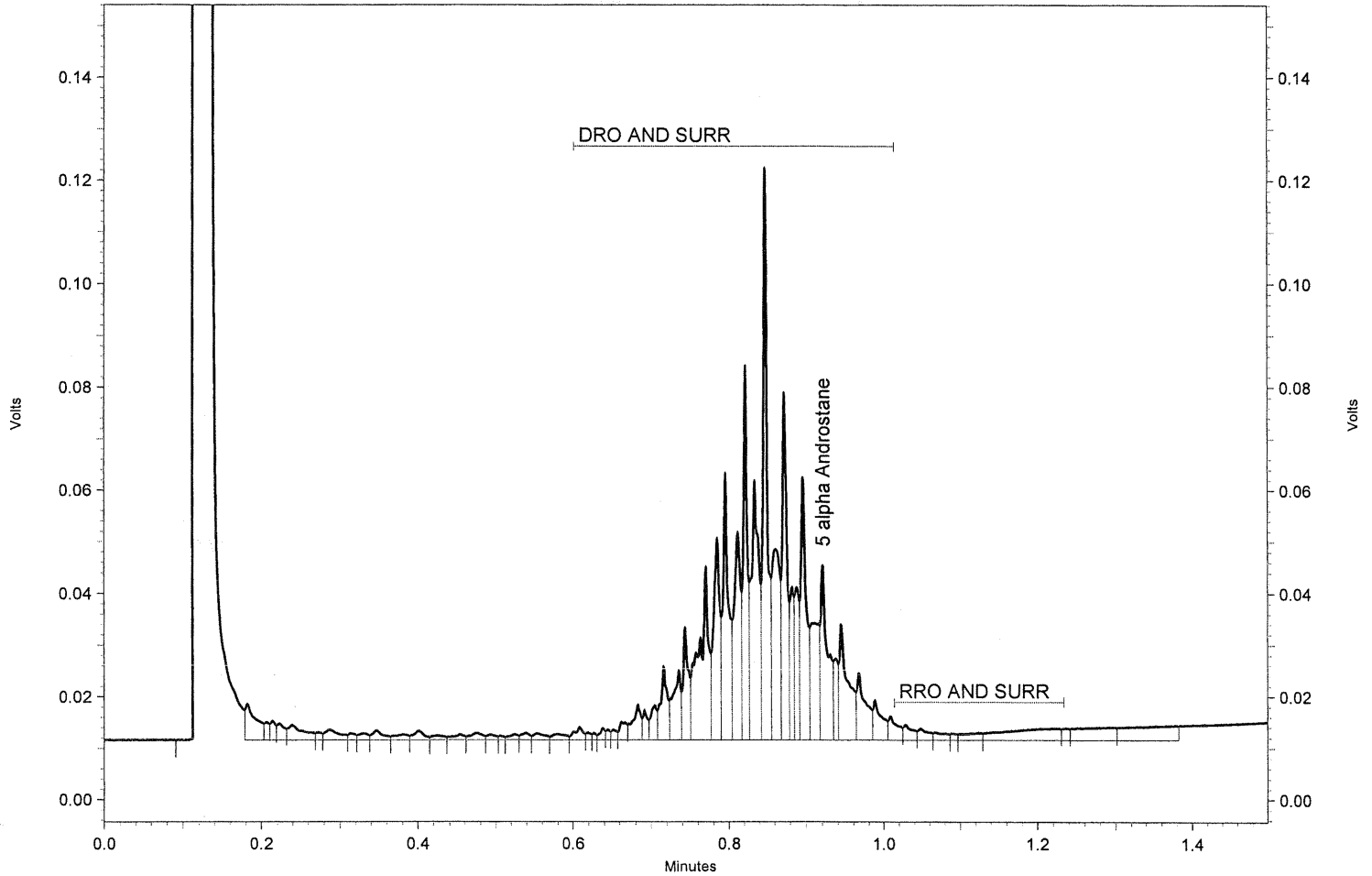
Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.924	7521	0.000 CAL	LL	mg/L
DRO		122141	300.000 CAL		mg/L
RRO		2149	0.000 CAL		mg/L
DRO AND SURRE		122141	300.000 CAL		mg/L
RRO AND SURRE		2149	0.000 CAL		mg/L

SGS Environmental Services Inc.

Sample Name: DRO 1000
 Date/Time: 7/19/2006 12:21:11 PM Analyst: JE Dilution: 1
 Method: E:\Public\2006\07\SA\Method\SAF071906.met
 Sample File: E:\Public\2006\07\SA\Data\071906\SAF07080719_020.DAT

DRO/RRO



Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.922	21155	0.000 CAL	LL	mg/L
DRO		442008	1000.000 CAL		mg/L
RRO		21313	0.000 CAL		mg/L
DRO AND SURRE		442008	1000.000 CAL		mg/L
RRO AND SURRE		21313	0.000 CAL		mg/L

SGS Environmental Services Inc.

Sample Name: DRO 5000

Date/Time: 7/19/2006 12:25:25 PM

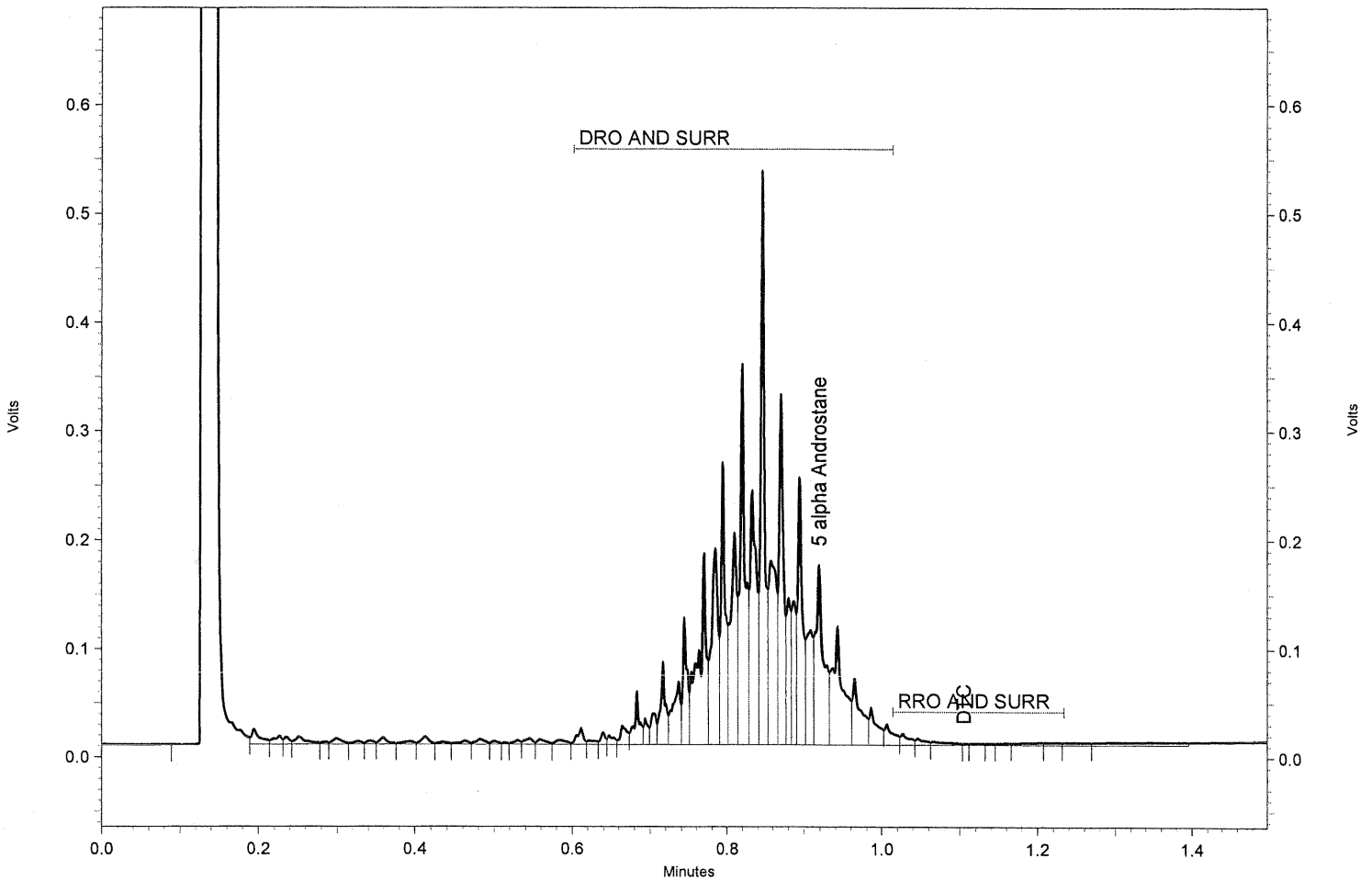
Analyst: JE

Dilution: 1

Method: E:\Public\2006\07\SA\Method\SAF071906.met

Sample File: E:\Public\2006\07\SA\Data\071906\SAF07080719_021.DAT

DRO/RRO



Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.919	112307	0.000 CAL	LL	mg/L
DTC	1.105	865	0.000 CAL	LL	mg/L
DRO		1985372	5000.000 CAL		mg/L
RRO		34130	0.000 CAL		mg/L
DRO AND Surr		1985372	5000.000 CAL		mg/L
RRO AND Surr		34130	0.000 CAL		mg/L

SGS Environmental Services Inc.

Sample Name: DRO 10000

Date/Time: 7/19/2006 12:29:43 PM

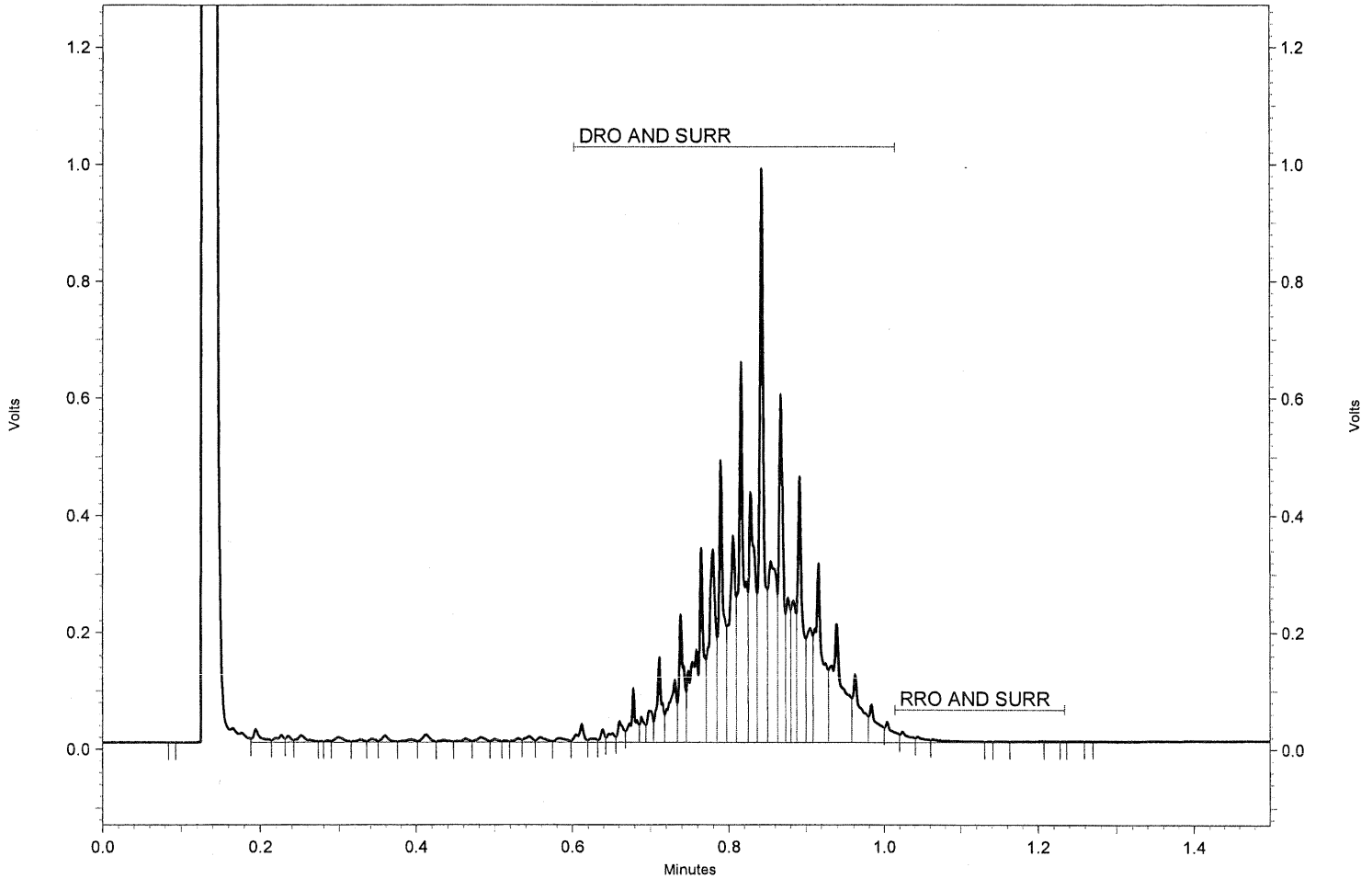
Analyst: JE

Dilution: 1

Method: E:\Public\2006\07\SA\Method\SAF071906.met

Sample File: E:\Public\2006\07\SA\Data\071906\SAF07080719_022.DAT

DRO/RRO



Front FID Results

Name	R.T.	Area	Amount	IC	Units
DRO		3672040	10000.000 CAL		mg/L
RRO		47573	0.000 CAL		mg/L
DRO AND Surr		3672040	10000.000 CAL		mg/L
RRO AND Surr		47573	0.000 CAL		mg/L

SGS Environmental Services Inc.

Sample Name: DRO 20000

Date/Time: 7/19/2006 12:34:05 PM

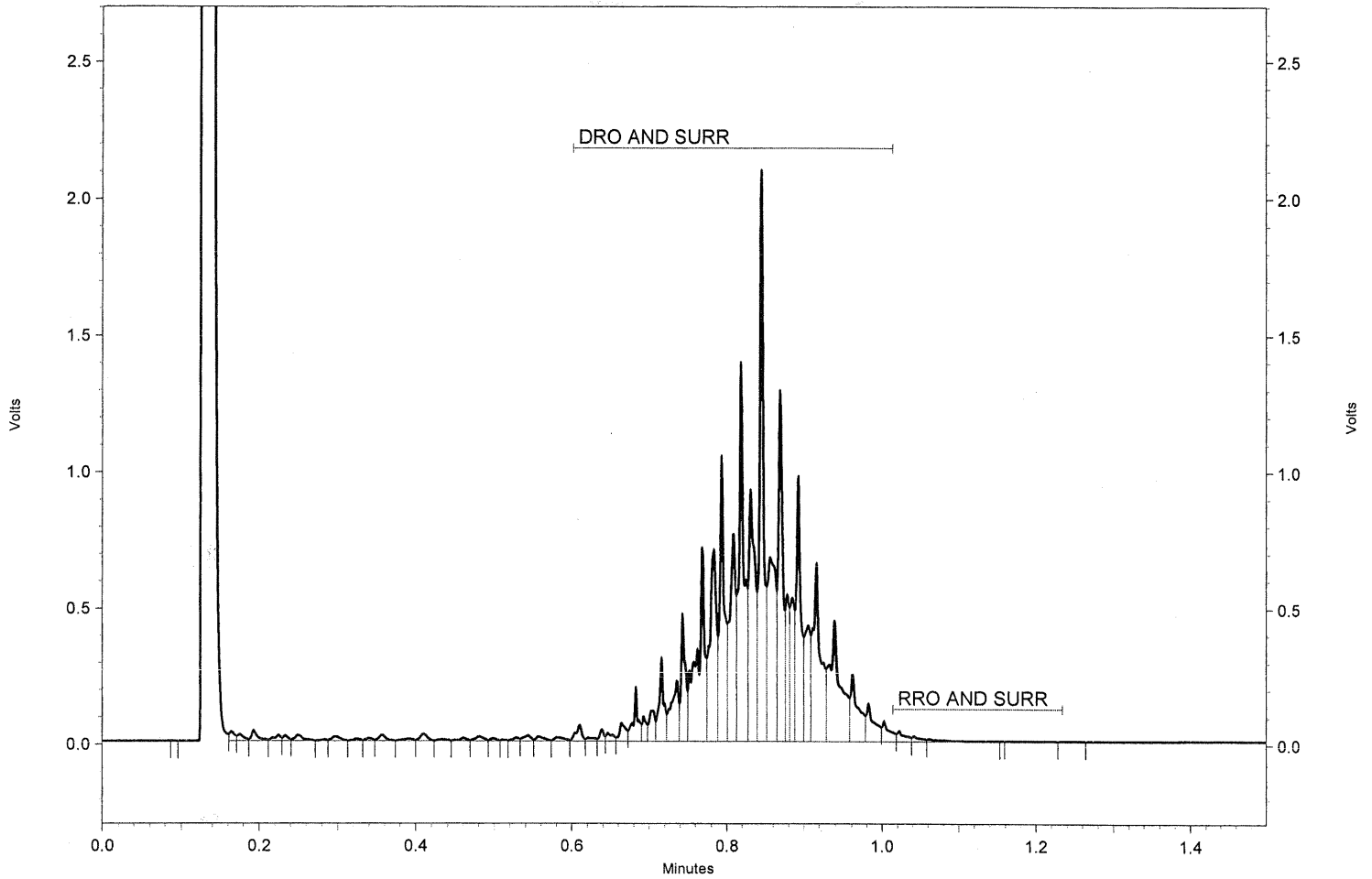
Analyst: JE

Dilution: 1

Method: E:\Public\2006\07\SA\Method\SAF071906.met

Sample File: E:\Public\2006\07\SA\Data\071906\SAF07080719_023.DAT

DRO/RRO



Front FID Results

Name	R.T.	Area	Amount	IC	Units
DRO		7761970	20000.000 CAL		mg/L
RRO		74887	0.000 CAL		mg/L
DRO AND SURR		7761970	20000.000 CAL		mg/L
RRO AND SURR		74887	0.000 CAL		mg/L

SGS Environmental Services Inc.

Sample Name: RRO 500

Date/Time: 7/19/2006 1:00:06 PM

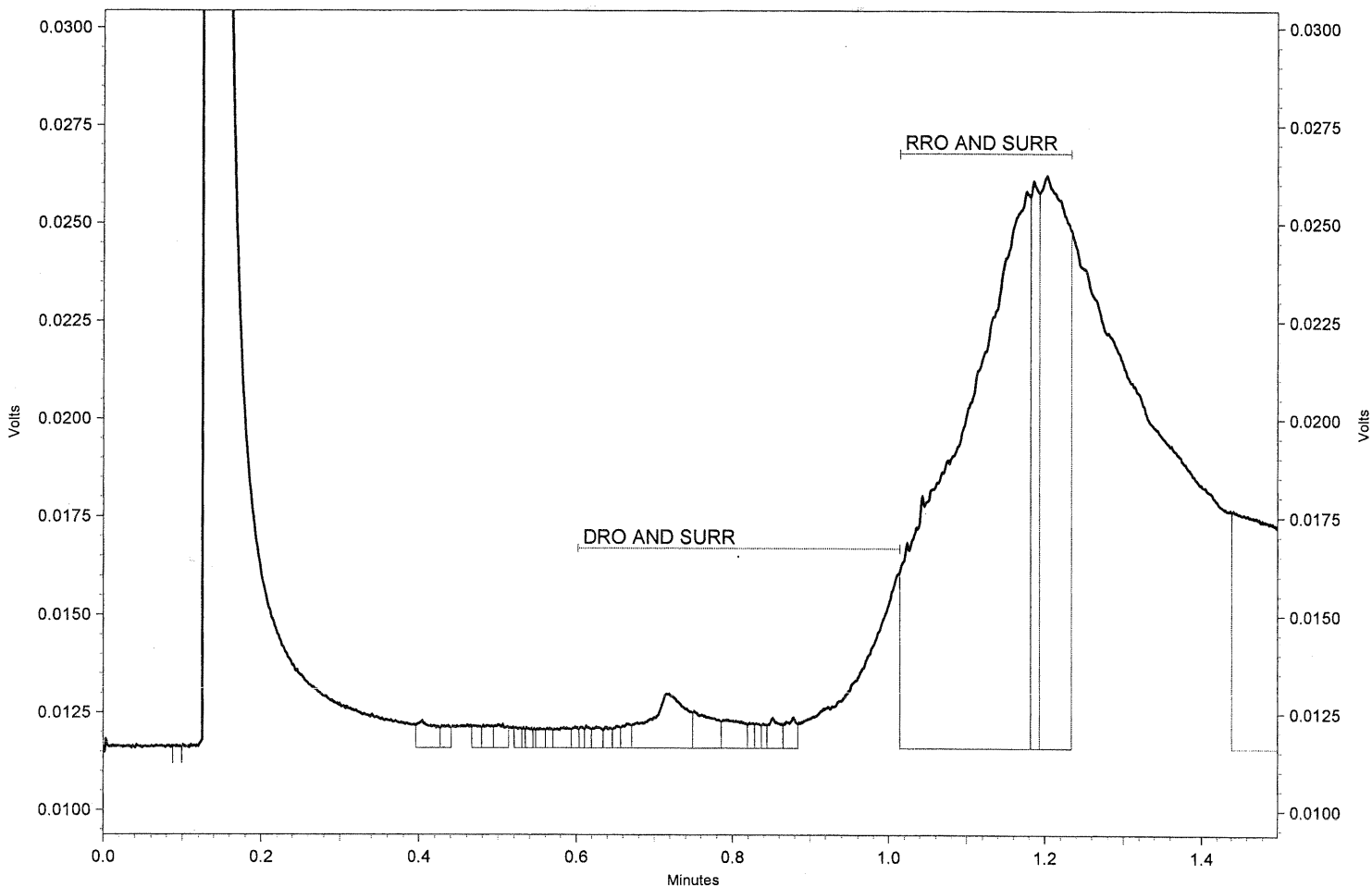
Analyst: JE

Dilution: 1

Method: E:\Public\2006\07\SA\Method\SAF071906.met

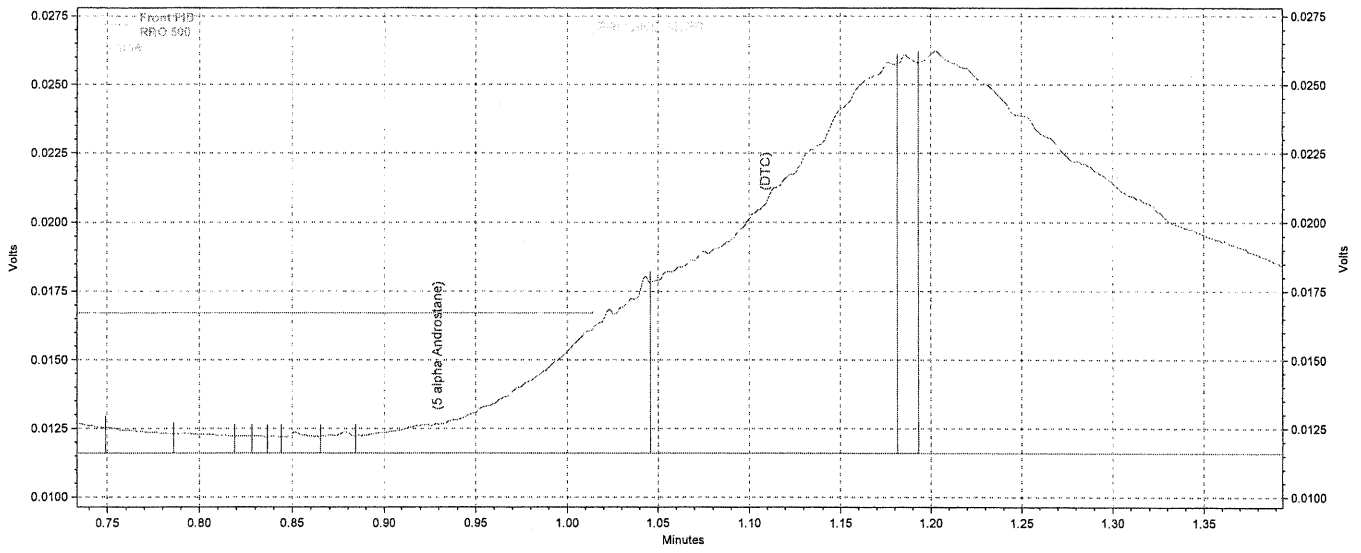
Sample File: E:\Public\2006\07\SA\Data\071906\SAF07080719_025.DAT

DRO/RRO



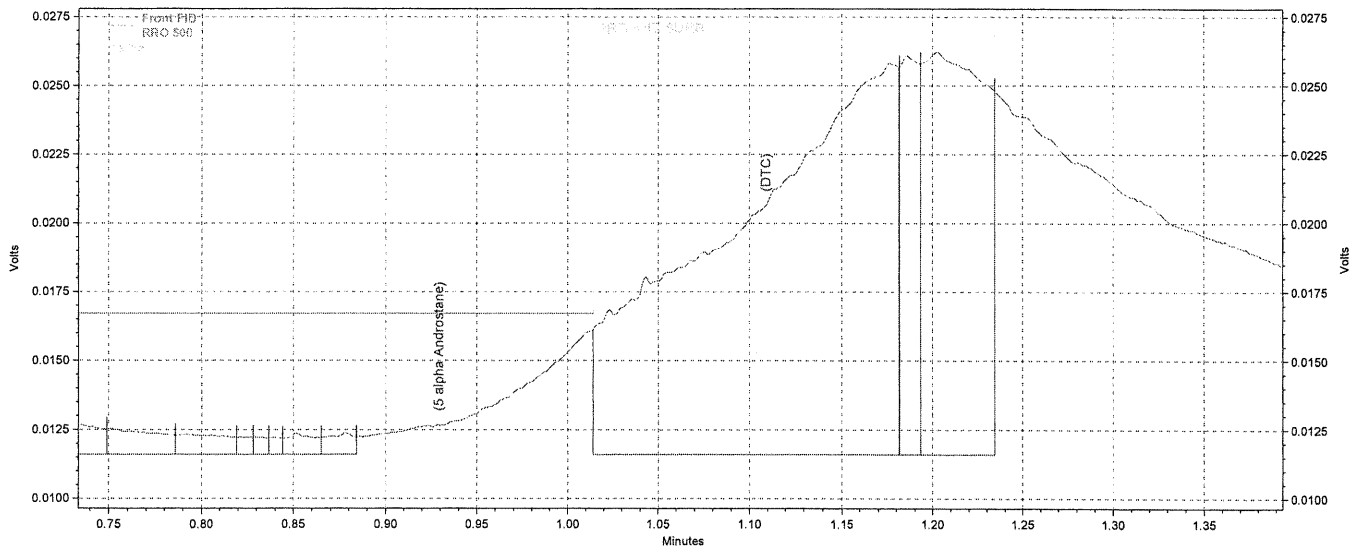
Front FID Results

Name	R.T.	Area	Amount	IC	Units
DRO		12202	0.000 CAL		mg/L
RRO		134794	500.000 CAL		mg/L
DRO AND SURR		12202	0.000 CAL		mg/L
RRO AND SURR		134794	500.000 CAL		mg/L



E:\Public\2006\07\SA\Data\071906\SAF07080719_025.DAT, Front FID

before
je 7/19/04



E:\Public\2006\07\SA\Data\071906\SAF07080719_025.DAT, Front FID

after
jc 7/19/06

SGS Environmental Services Inc.

Sample Name: RRO 1000

Date/Time: 7/19/2006 1:04:30 PM

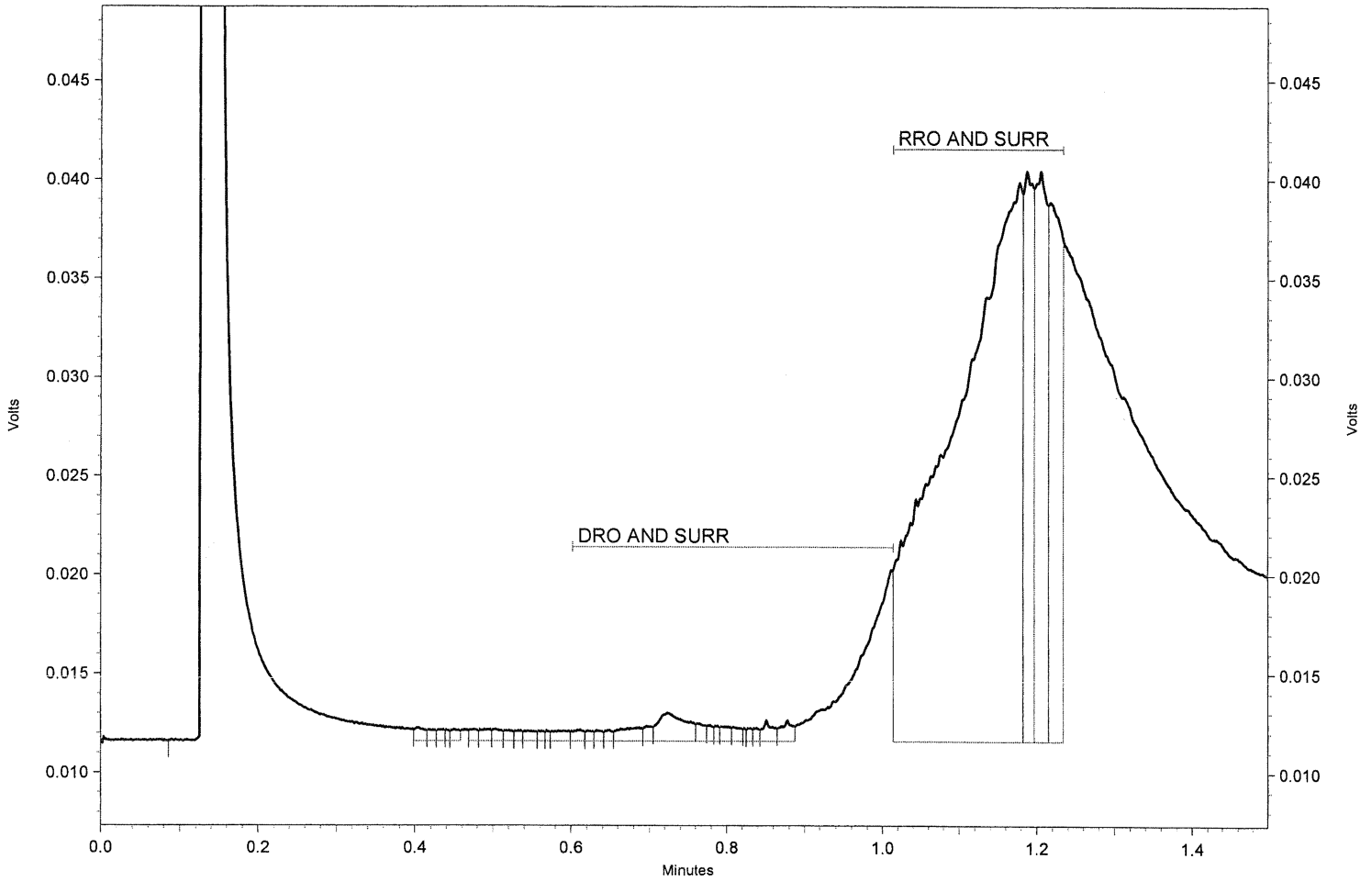
Analyst: JE

Dilution: 1

Method: E:\Public\2006\07\SA\Method\SAF071906.met

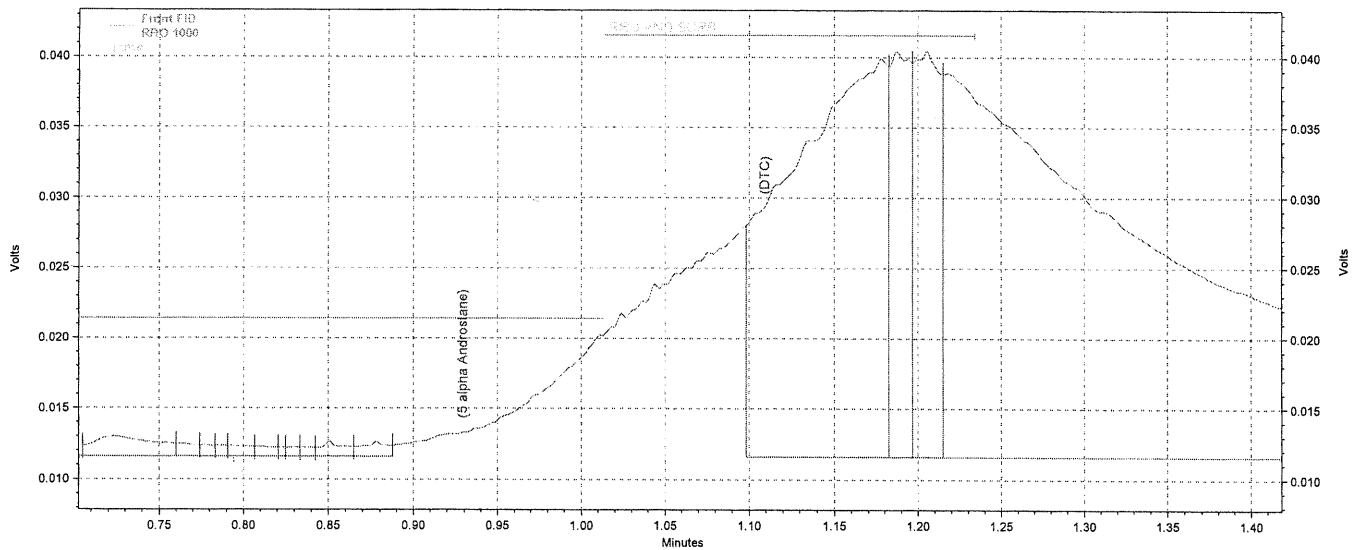
Sample File: E:\Public\2006\07\SA\Data\071906\SAF07080719_026.DAT

DRO/RRO



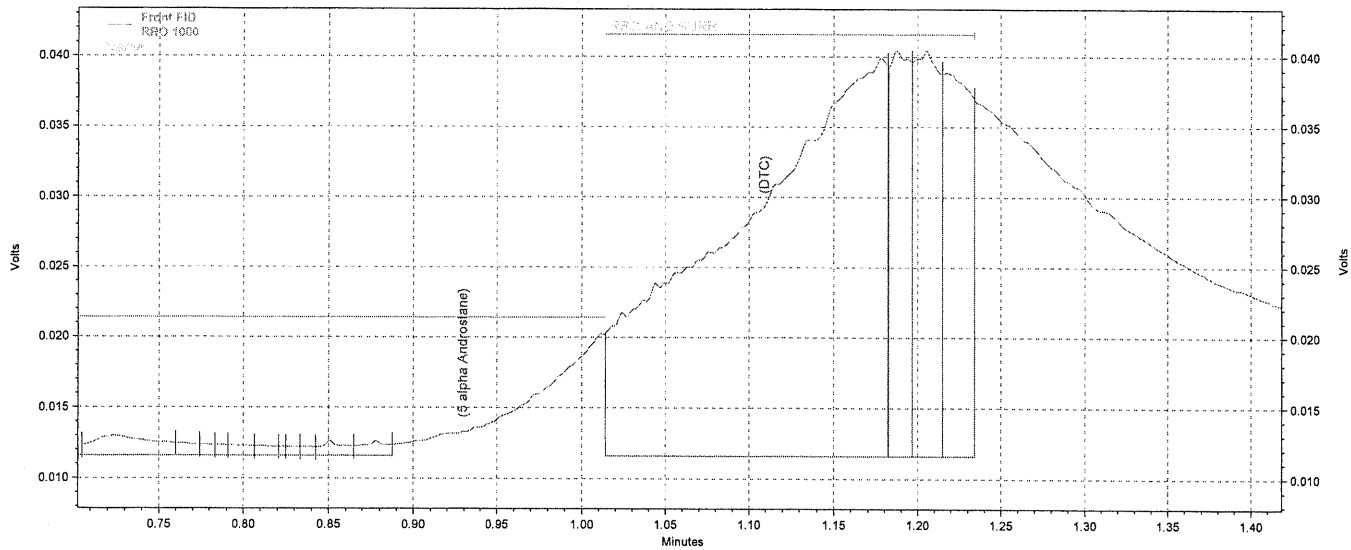
Front FID Results

Name	R.T.	Area	Amount	IC	Units
DRO		12869	0.000 CAL		mg/L
RRO		263573	1000.000 CAL		mg/L
DRO AND SURRE		12869	0.000 CAL		mg/L
RRO AND SURRE		263573	1000.000 CAL		mg/L



E:\Public\2006\07\SA\Data\071906\SAF07080719_026.DAT, Front FID

*before
7/19/06*



E:\Public\2006\07\SA\Data\071906\SAF07080719_026.DAT, Front FID

after
JK 7/19/06

SGS Environmental Services Inc.

Sample Name: RRO 5000

Date/Time: 7/19/2006 1:08:48 PM

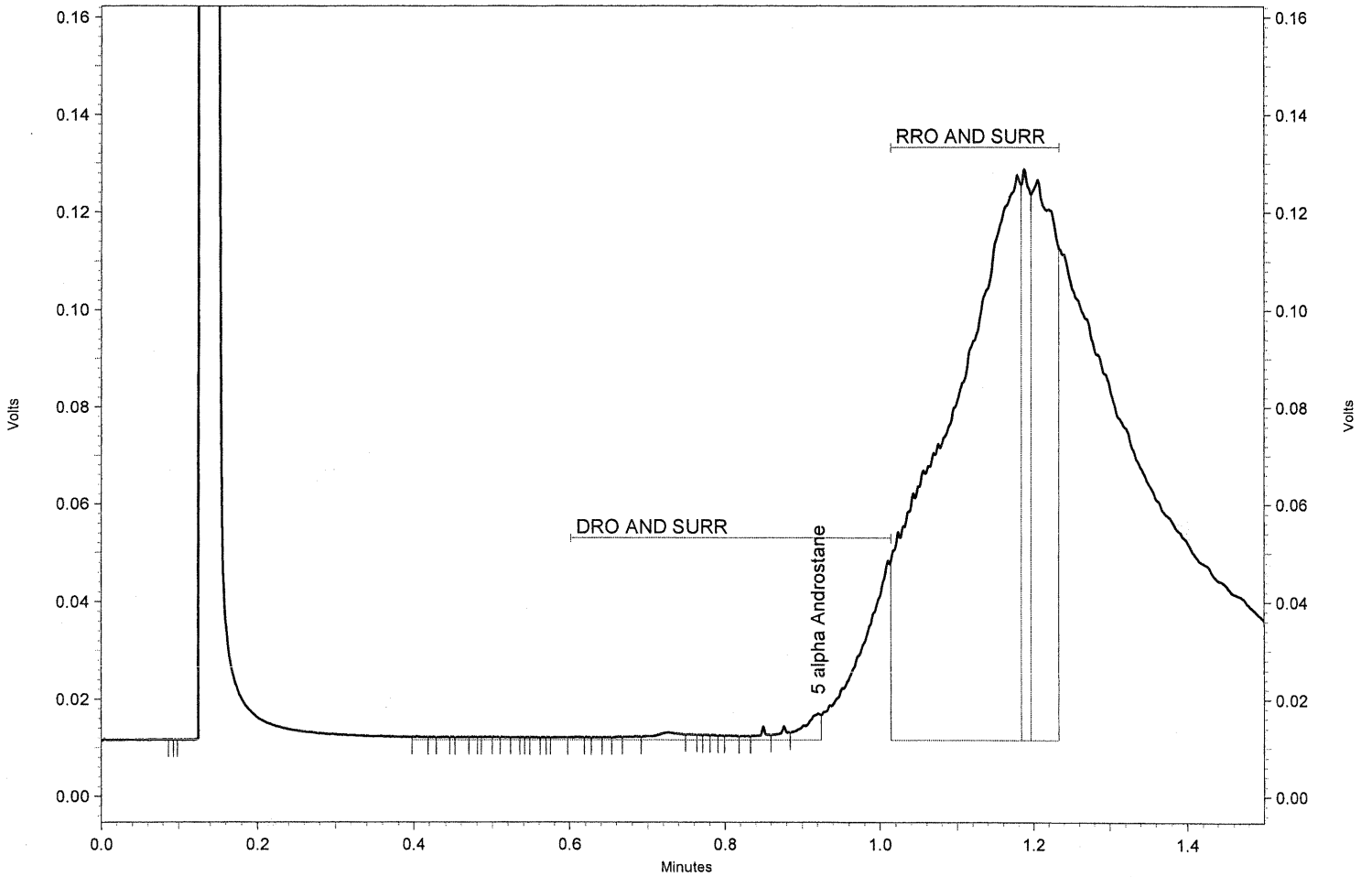
Analyst: JE

Dilution: 1

Method: E:\Public\2006\07\SA\Method\SAF071906.met

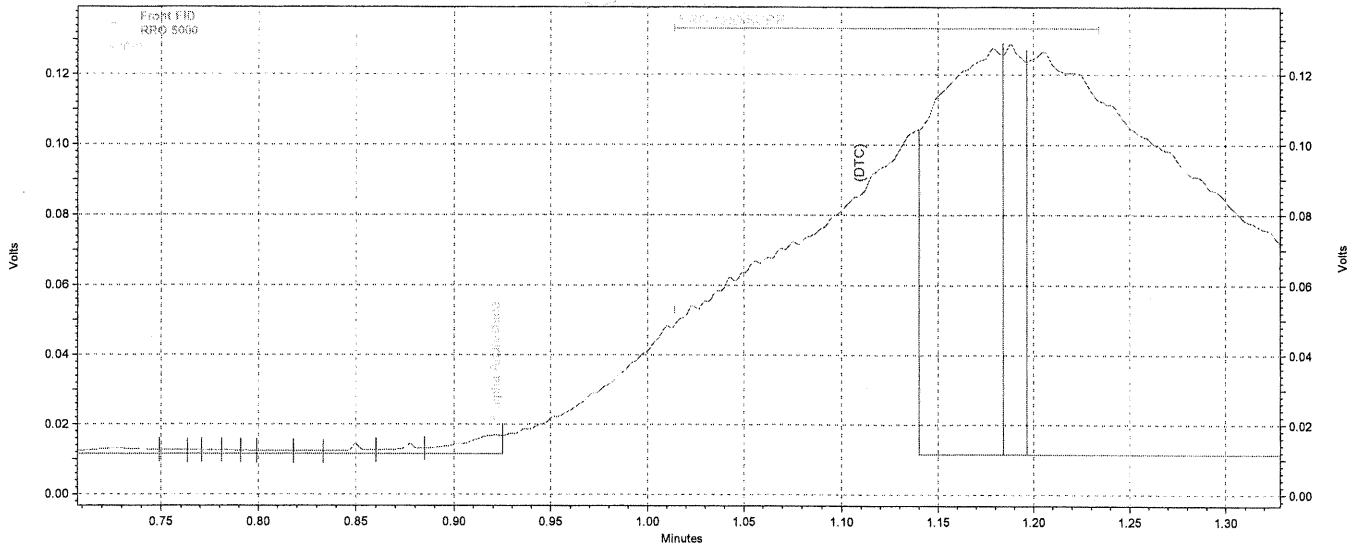
Sample File: E:\Public\2006\07\SA\Data\071906\SAF07080719_027.DAT

DRO/RRO



Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.921	8068	0.000 CAL	LL	mg/L
DRO		24149	0.000 CAL		mg/L
RRO		1083214	5000.000 CAL		mg/L
DRO AND SURRE		24149	0.000 CAL		mg/L
RRO AND SURRE		1083214	5000.000 CAL		mg/L



E:\Public\2006\07\SA\Data\071906\SAF07080719_027.DAT, Front FID

*before
p 7/19/06*

SGS Environmental Services Inc.

Sample Name: RRO 10000

Date/Time: 7/19/2006 1:13:07 PM

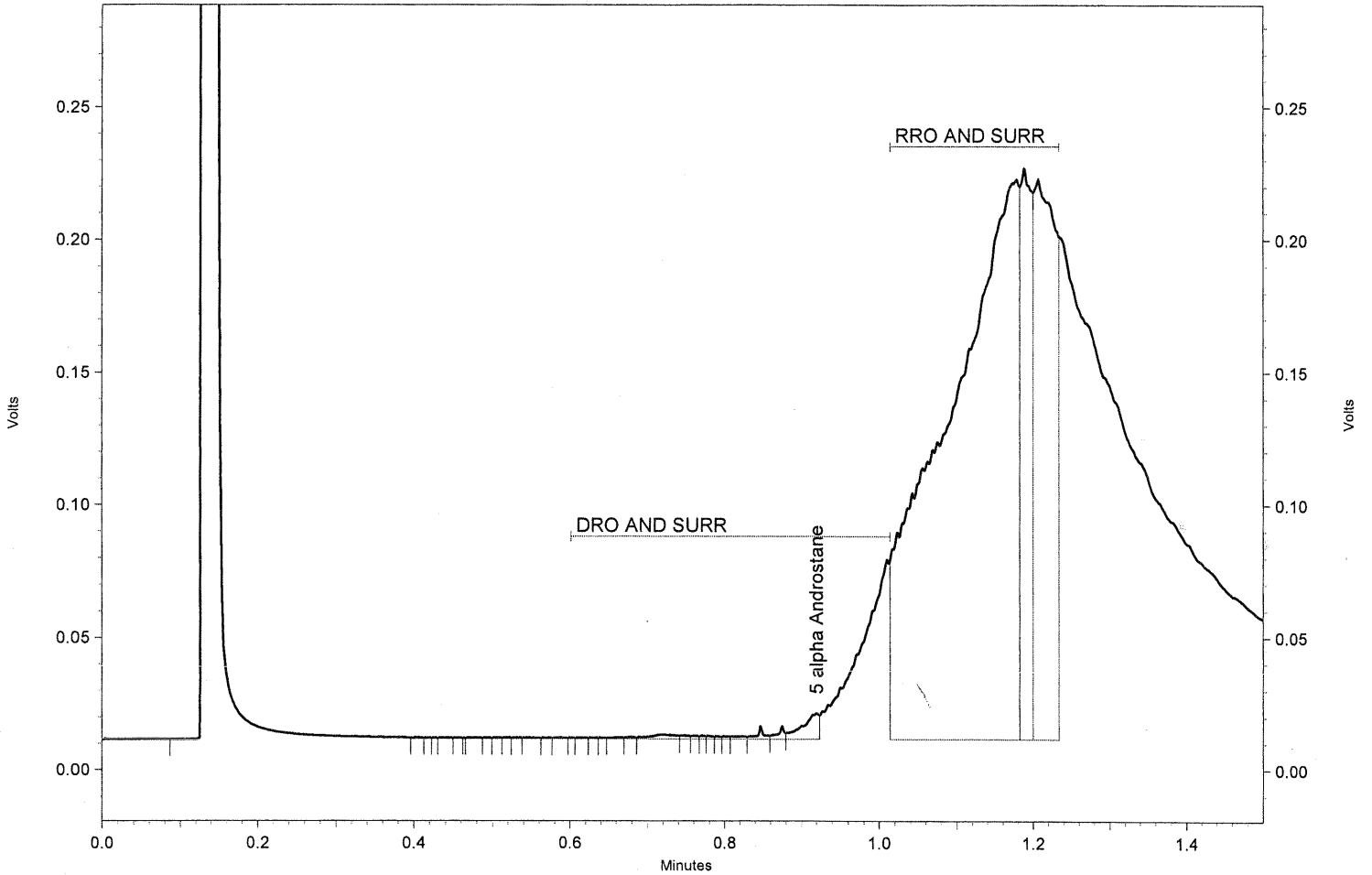
Analyst: JE

Dilution: 1

Method: E:\Public\2006\07\SA\Method\SAF071906.met

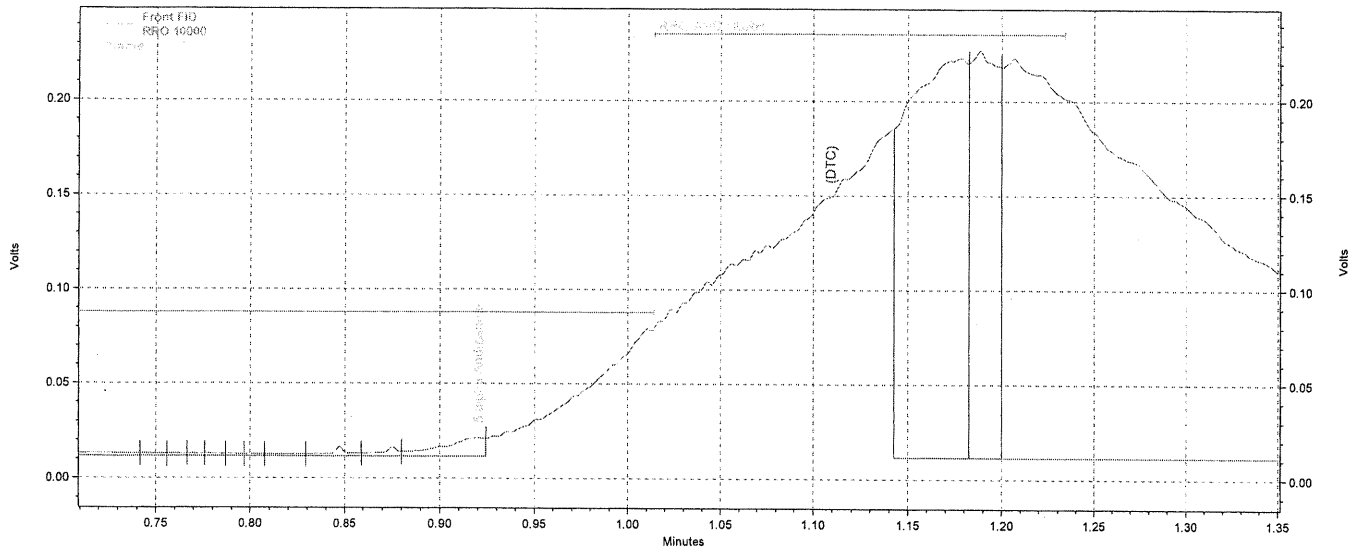
Sample File: E:\Public\2006\07\SA\Data\071906\SAF07080719_028.DAT

DRO/RRO



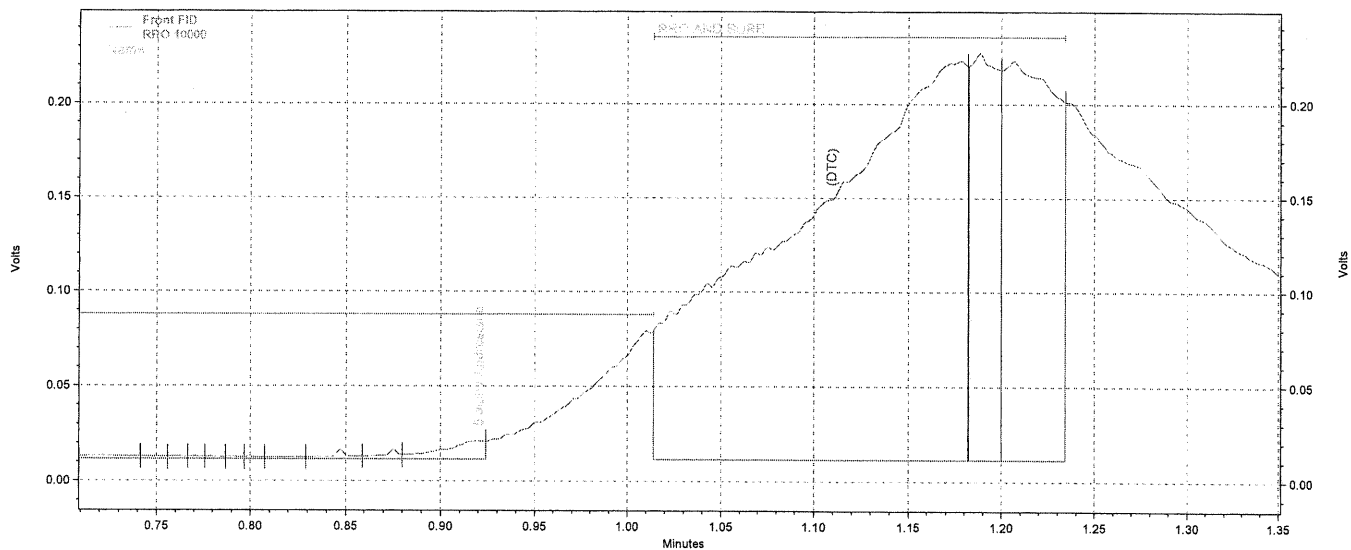
Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.920	14977	0.000 CAL	LL	mg/L
DRO		34406	0.000 CAL		mg/L
RRO		1999954	10000.000 CAL		mg/L
DRO AND SURRE		34406	0.000 CAL		mg/L
RRO AND SURRE		1999954	10000.000 CAL		mg/L



E:\Public\2006\07\SA\Data\071906\SAF07080719_028.DAT, Front FID

after
7/19/06



E:\Public\2006\07\SA\Data\071906\SAF07080719_028.DAT, Front FID

*after
je 7/19/06*

SGS Environmental Services Inc.

Sample Name: RRO 20000

Date/Time: 7/19/2006 1:17:30 PM

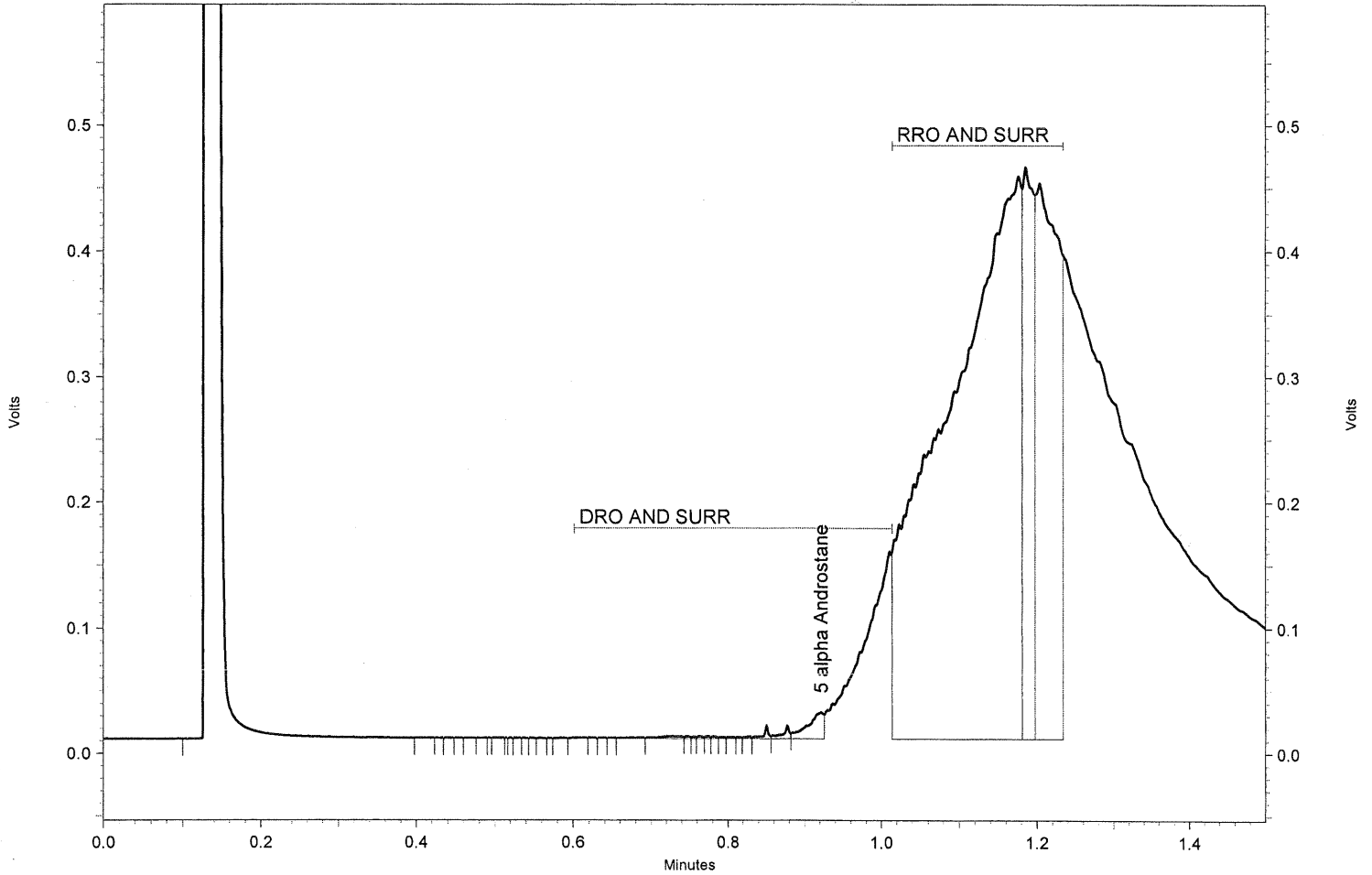
Analyst: JE

Dilution: 1

Method: E:\Public\2006\07\SA\Method\SAF071906.met

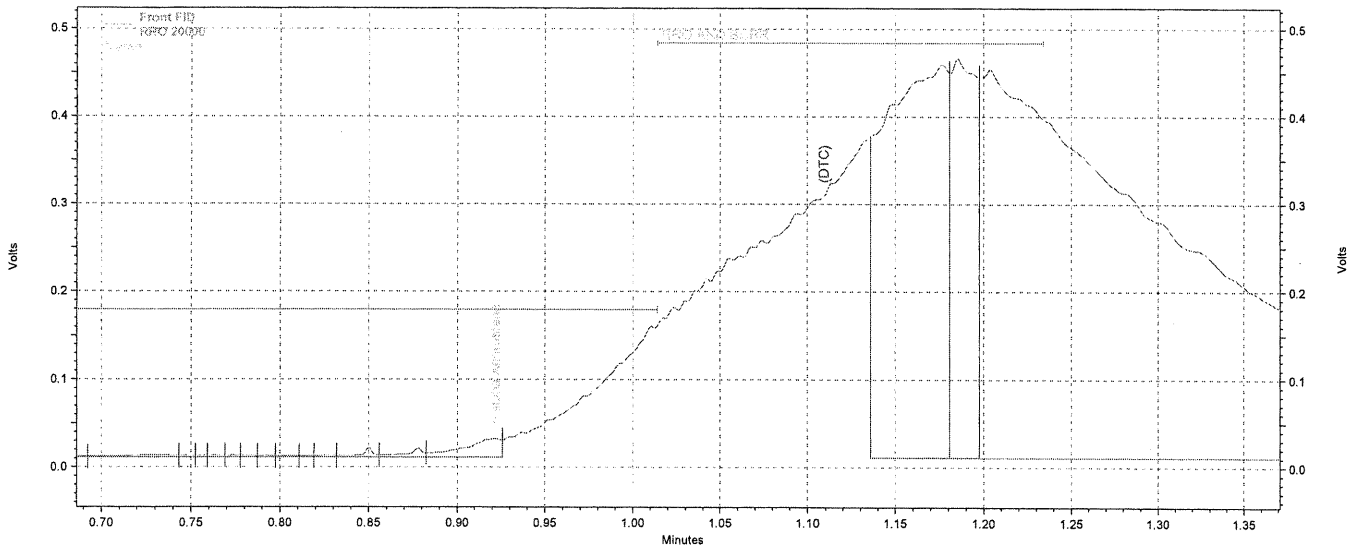
Sample File: E:\Public\2006\07\SA\Data\071906\SAF07080719_029.DAT

DRO/RRO



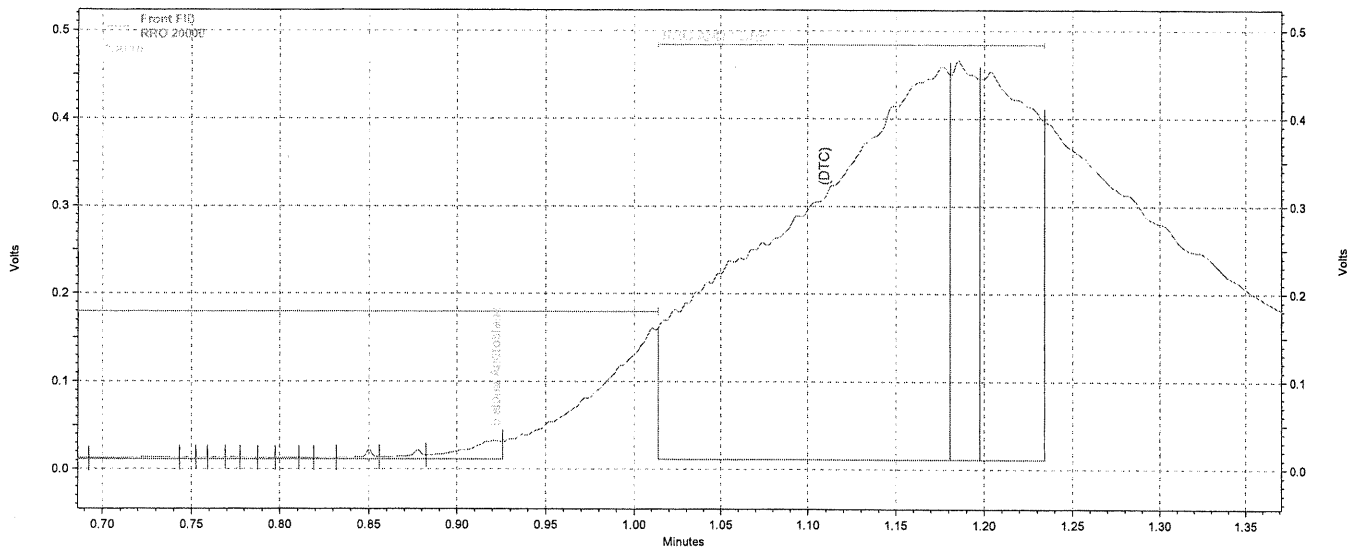
Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.922	30765	0.000 CAL	LL	mg/L
DRO		58880	0.000 CAL		mg/L
RRO		4297469	20000.000 CAL		mg/L
DRO AND SURR		58880	0.000 CAL		mg/L
RRO AND SURR		4297469	20000.000 CAL		mg/L



E:\Public\2006\07\SA\Data\071906\SAF07080719_029.DAT, Front FID

*before
after
je 7/19/06*



E:\Public\2006\07\SA\Data\071906\SAF07080719_029.DAT, Front FID

*after
je 7/19/06*

SGS Environmental Services Inc.

Sample Name: ICVB

Date/Time: 7/19/2006 1:43:34 PM

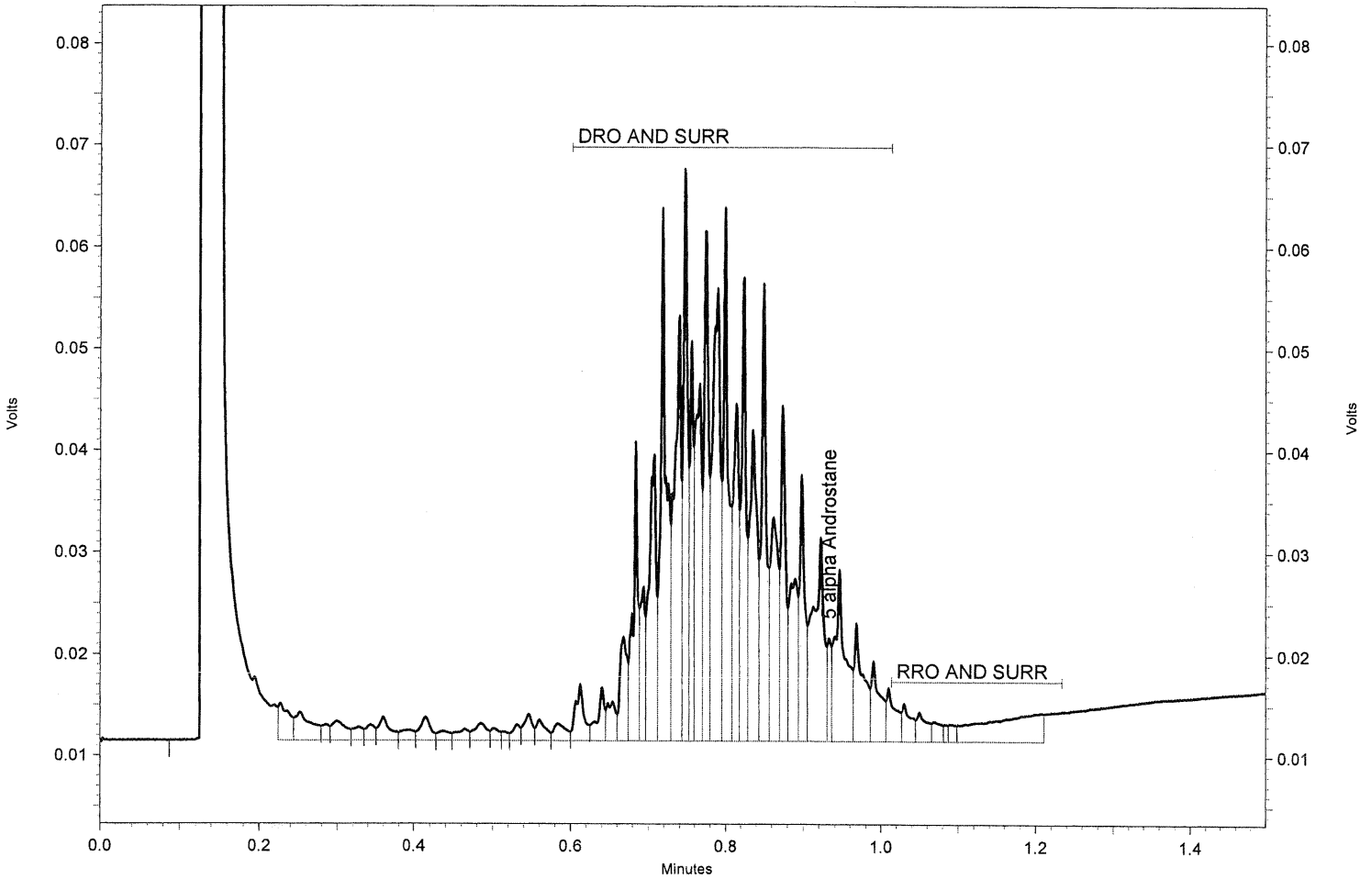
Analyst: JE

Dilution: 1

Method: E:\Public\2006\07\SA\Method\SAF071906.met

Sample File: E:\Public\2006\07\SA\Data\071906\SAF07080719_031.DAT

DRO/RRO



Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.933	3419	8.062	LL	mg/L
DRO		431174	1077.116		mg/L
RRO		23715	101.810	LC	mg/L
DRO AND SURRE		431174	1077.116		mg/L
RRO AND SURRE		23715	101.810	LC	mg/L

*True value
1000 µg/ml
108%
JE 7/19/06*

SGS Environmental Services Inc.

Sample Name: ICVR

Date/Time: 7/19/2006 1:47:56 PM

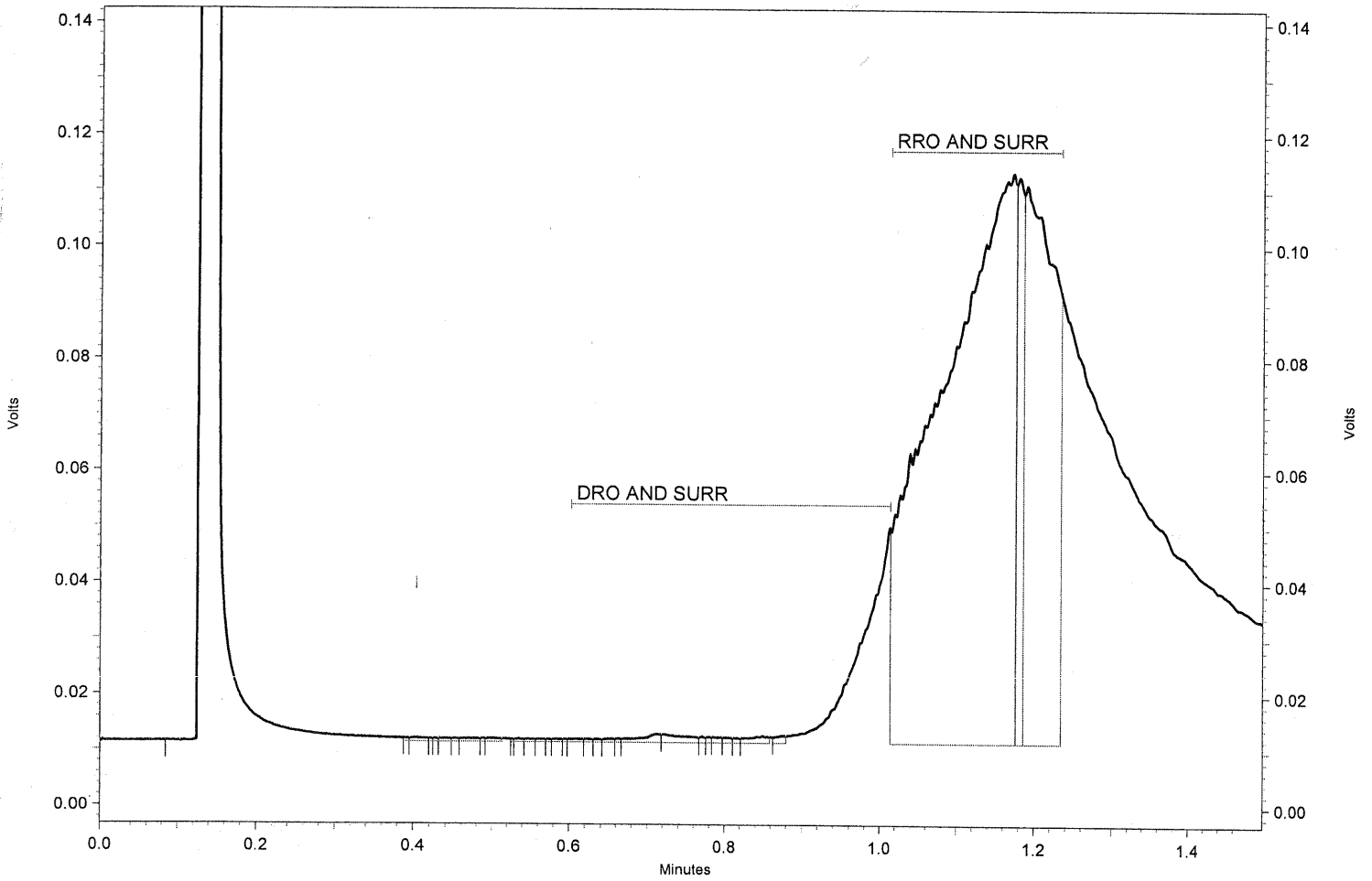
Analyst: JE

Dilution: 1

Method: E:\Public\2006\07\SA\Method\SAF071906.met

Sample File: E:\Public\2006\07\SA\Data\071906\SAF07080719_032.DAT

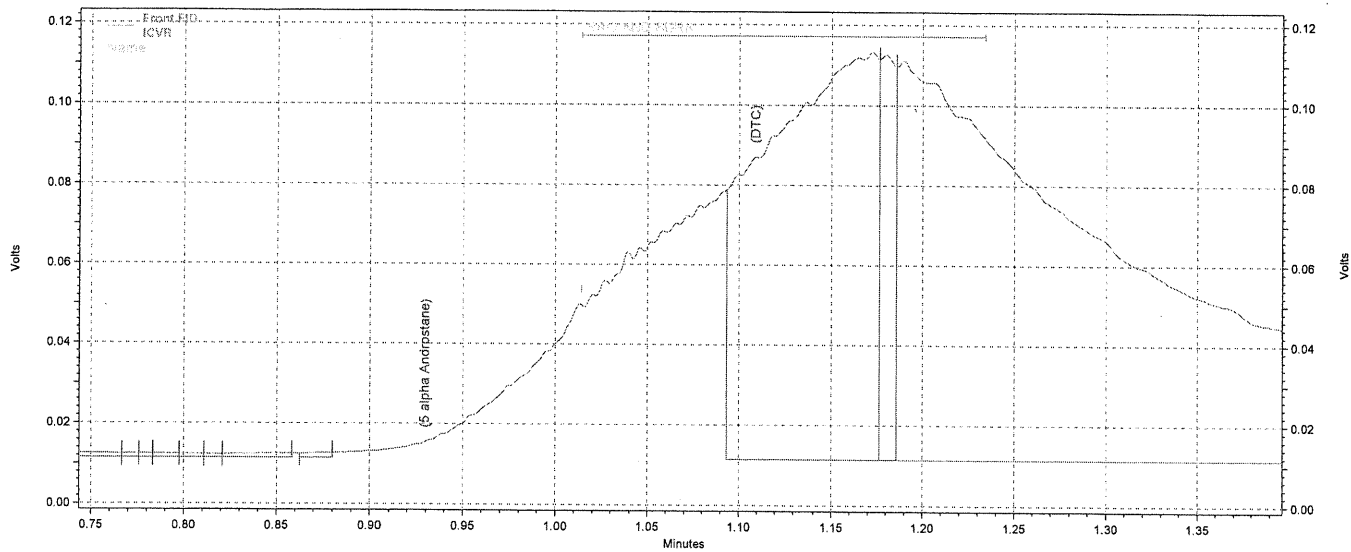
DRO/RRO



Front FID Results

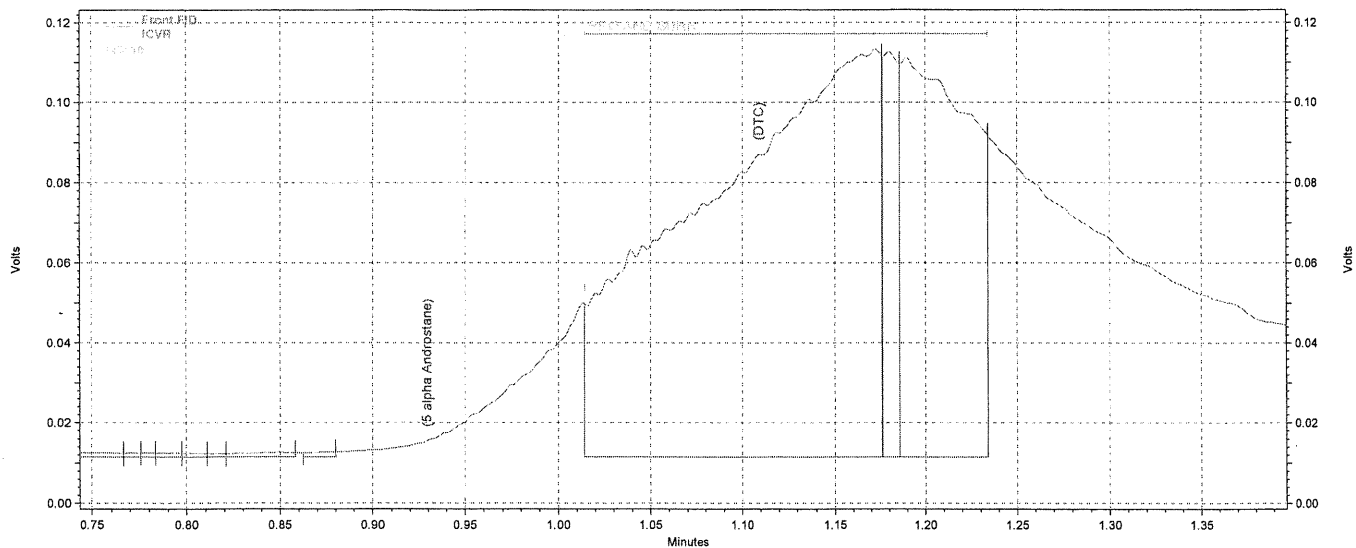
Name	R.T.	Area	Amount	IC	Units
DRO		14906	37.237 LC		mg/L
RRO		1004508	4312.405		mg/L
DRO AND SURR		14906	37.237 LC		mg/L
RRO AND SURR		1004508	4312.405		mg/L

*True
value
5000 µg/ml
86%
JE 7/19/06*



E:\Public\2006\07\SA\Data\071906\SAF07080719_032.DAT, Front FID

*before
p 7/19/06*



E:\Public\2006\07\SA\Data\071906\SAF07080719_032.DAT, Front FID

after
7/19/06

Section 6.3

SGS Environmental, Inc.

Analytical Quality Control Summary Data

Work Order(s):

1064196^{III}, 1064819, 1064842, 1064864, 1064875^{III}

Queue: XFC

Batch: 7117

Method:

AK102, AK102/103

Run Date:

08/23/06 11:06 - 08/23/06 16:17

Extraction Batch(es): XXX17157, XXX17169

QC Parameter	Goals Met?		
Calibration:	(Y)	N	N/A
Instrument/Method Blank:	(Y)	N	N/A
Initial/Continuing Calibration Verifications:	(Y)	N	N/A
Laboratory Control Sample:	(Y)	N	N/A
Laboratory Control Sample Duplicate:	(Y)	N	N/A
Relative Percent Difference:	(Y)	N	N/A
Sample Duplicate:	Y	N	(N/A)
Matrix Spike:	Y	(N)	N/A
Matrix Spike Duplicate:	Y	(N)	N/A
Relative Percent Difference:	(Y)	N	N/A
Surrogates:	(Y)	N	N/A
Sample Holding Time:	(Y)	N	N/A
Internal Standards	Y	N	(N/A)
GCMS Tuner/DDT Sample	Y	N	(N/A)

See case narrative/sample comments for further information : _____

Additional Notes:

final of partial batch

Is there any further action necessary for any out of control events described above? Y N

Should a Corrective Action be initiated? Y N

I certify that except as specifically noted in this report, all statements and data appearing in this report are in conformance with the provisions of the Quality Assurance Plan (QAP) prepared by this firm and on file with the Alaska Department of Environmental Conservation.

Analyst's Signature:

Jennifer Encelowski

Reviewer's Signature

Shawn Poston

Date:

8/24/06

Date:

8-24-06

SGS Environmental Services Inc.

Sample Name: IB

Date/Time: 8/23/2006 11:06:48 AM

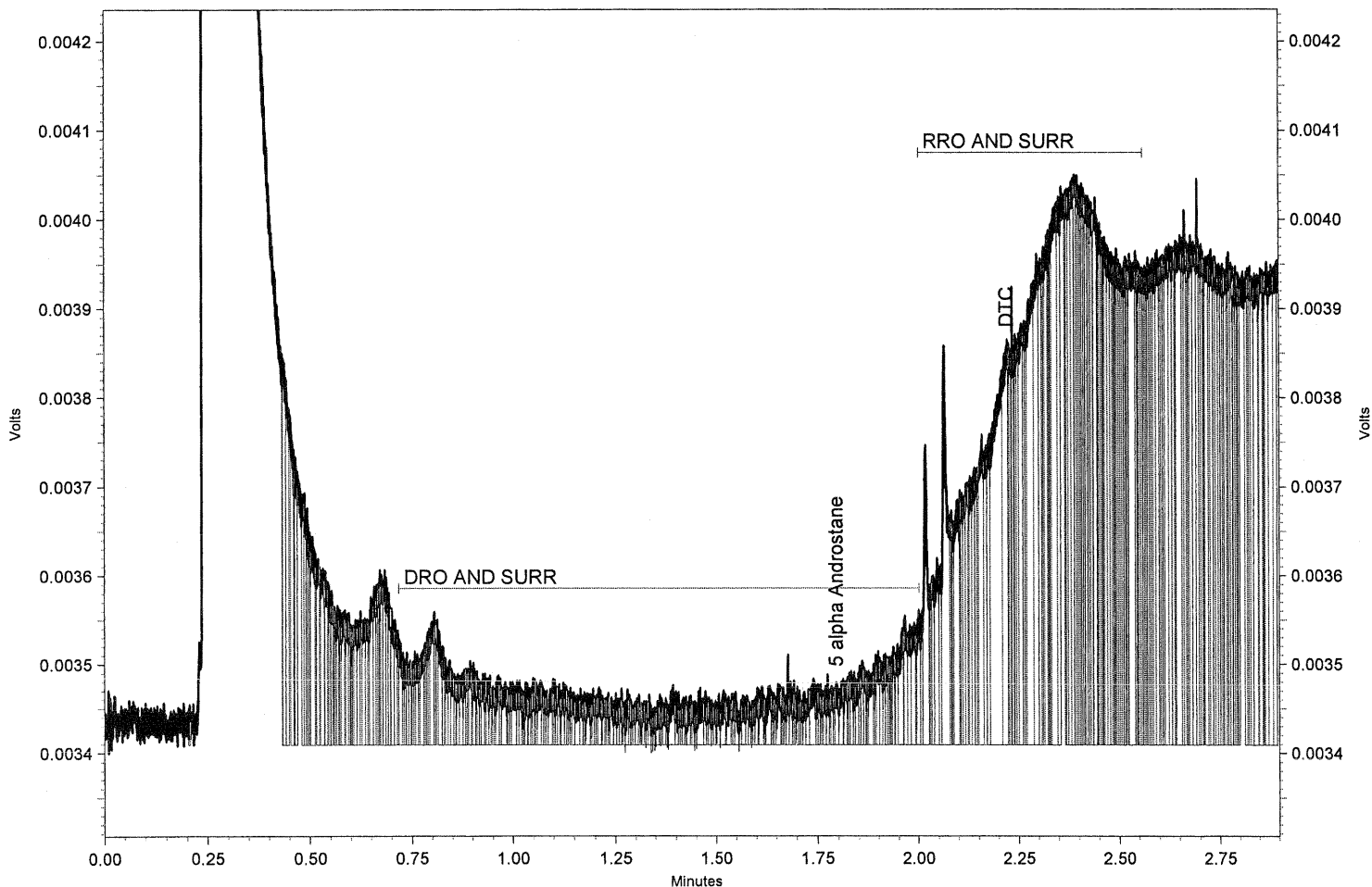
Analyst: JE

Dilution: 1

Method: E:\Public\2006\08\SD\METHOD\SDR071106C.met

Sample File: E:\Public\2006\08\SD\Data\082306R\SDR07110823_001-Rep5.DAT

DRO/RRO



Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.794	32	0.129	LL	
DTC	2.220	360	1.853	LL	
DRO		4288	18.545 LC		mg/L
RRO		13789	120.865 LC		mg/L
DRO AND SURR		4320	18.683 LC		mg/L
RRO AND SURR		14149	124.021 LC		mg/L

SGS Environmental Services Inc.

Sample Name: C10-C26,C28,C30,C32,C34,C36

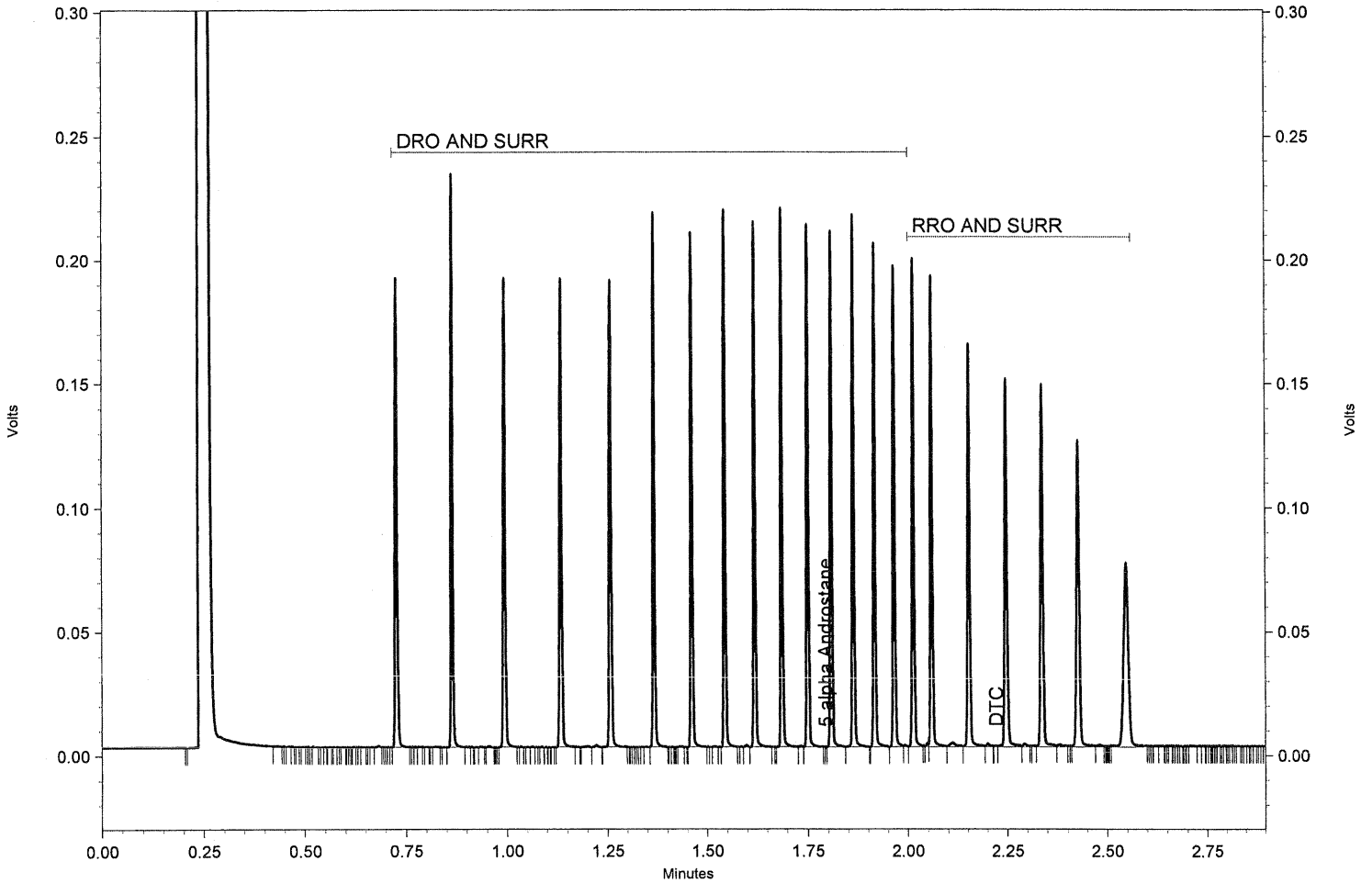
Date/Time: 8/23/2006 11:11:43 AM Analyst: JE

Dilution: 1

Method: E:\Public\2006\08\SD\METHOD\SDR071106C.met

Sample File: E:\Public\2006\08\SD\Data\082306R\SDR07110823_002.DAT

DRO/RRO



Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.794	27	0.109	LL	
DTC	2.222	288	1.482	LL	
DRO		998991	4320.488		mg/L
RRO		454565	3984.420		mg/L
DRO AND SURRE		999018	4320.605		mg/L
RRO AND SURRE		454853	3986.945		mg/L

SGS Environmental Services Inc.

Sample Name: 1064875001 H

Date/Time: 8/23/2006 2:22:51 PM

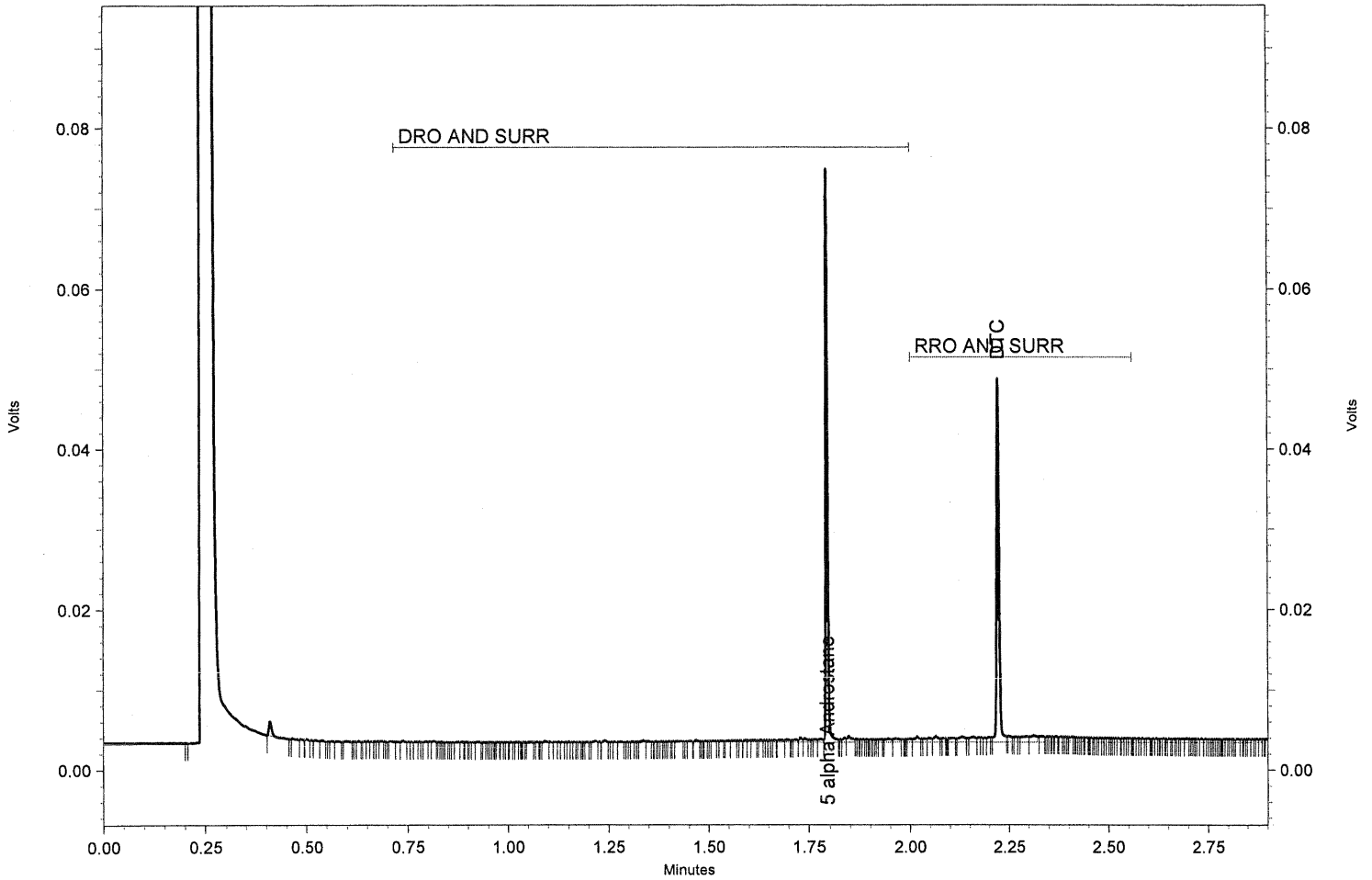
Analyst: JE

Dilution: 1

Method: E:\Public\2006\08\SD\METHOD\SDR071106C_Z.met

Sample File: E:\Public\2006\08\SD\Data\082306R\SDR07110823_039.DAT

DRO/RRO



Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.794	22413	90.605	LL	
DTC	2.223	19234	98.975	LL	
DRO		11626	50.281	LC	mg/L
RRO		17535	153.700	LC	mg/L
DRO AND SURR		34039	147.214	LC	mg/L
RRO AND SURR		36769	322.293	LC	mg/L

SGS Environmental Services Inc.

Sample Name: CCVB

Date/Time: 8/23/2006 2:27:47 PM

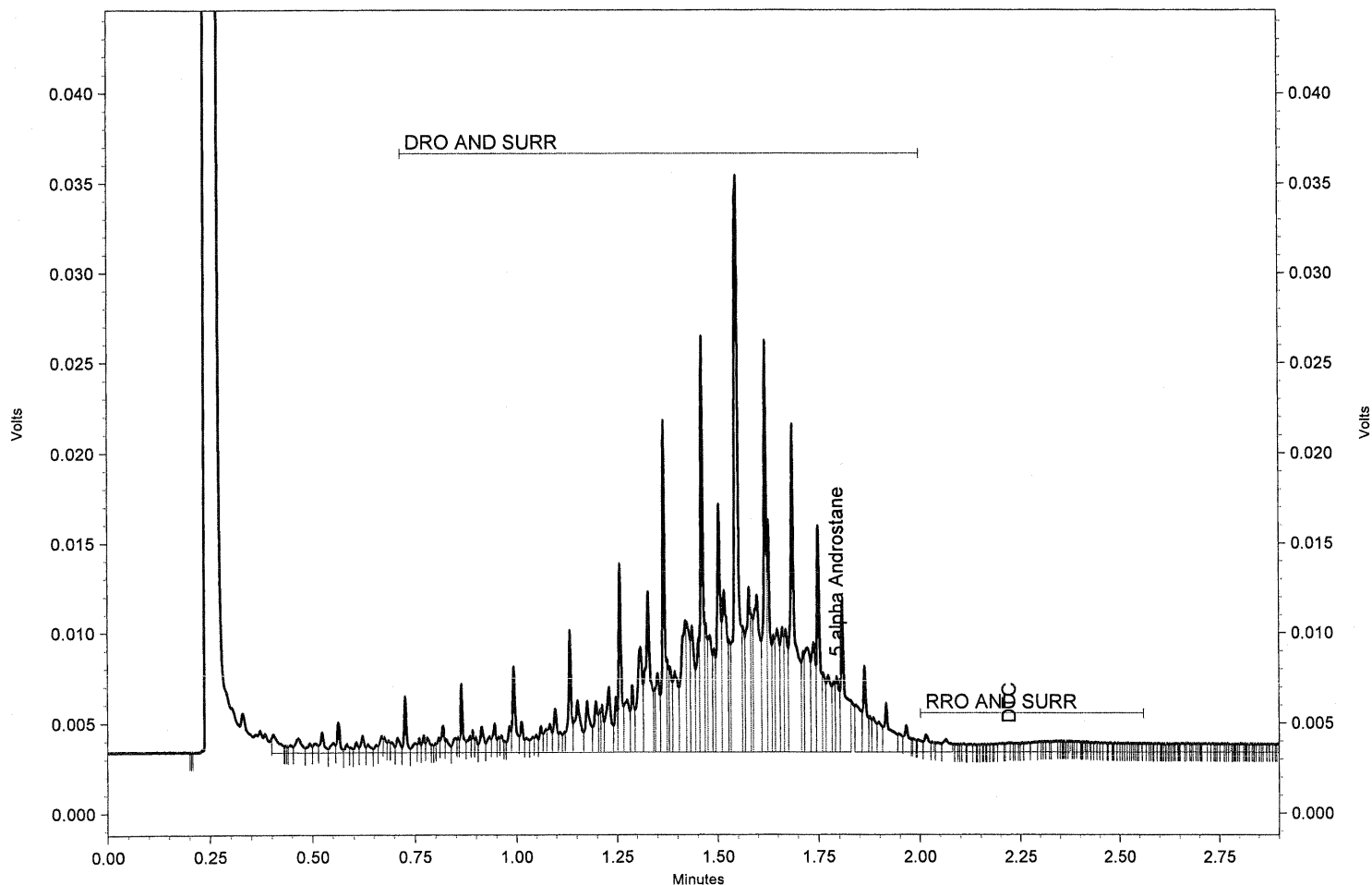
Analyst: JE

Dilution: 1

Method: E:\Public\2006\08\SD\METHOD\SDR071106C.met

Sample File: E:\Public\2006\08\SD\Data\082306R\SDR07110823_040.DAT

DRO/RRO



Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.794	2717	10.983	LL	
DTC	2.221	326	1.678	LL	
DRO		279637	1209.389		mg/L
RRO		15413	135.100 LC		mg/L
DRO AND SURR		282354	1221.139		mg/L
RRO AND SURR		15739	137.958 LC		mg/L

SGS Environmental Services Inc.

Sample Name: CCVR

Date/Time: 8/23/2006 2:32:45 PM

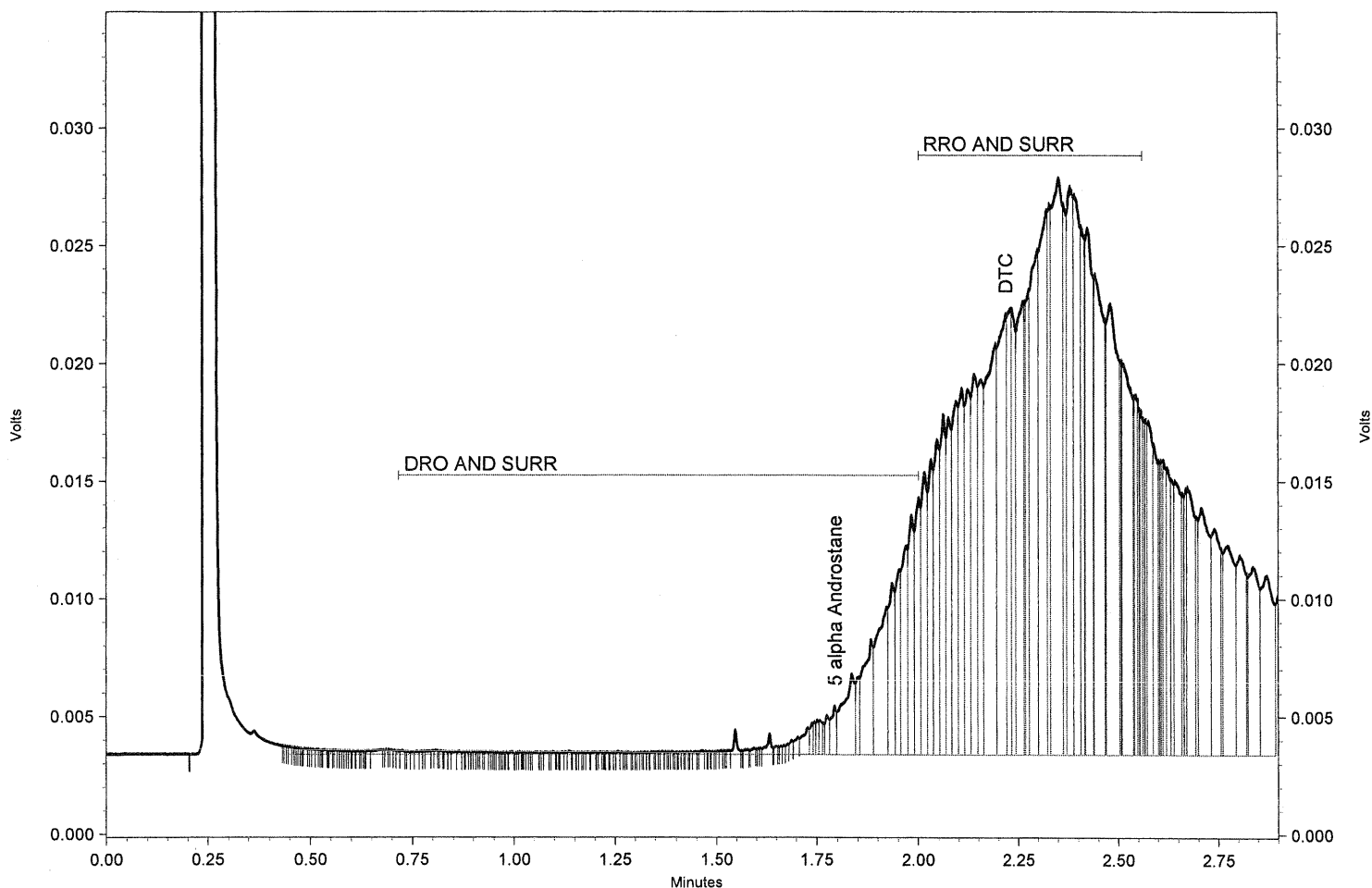
Analyst: JE

Dilution: 1

Method: E:\Public\2006\08\SD\METHOD\SDR071106C.met

Sample File: E:\Public\2006\08\SD\Data\082306R\SDR07110823_041.DAT

DRO/RRO



Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.794	1864	7.535	LL	
DTC	2.220	27534	141.686	LL	
DRO		74845	323.694		mg/L
RRO		583646	5115.860		mg/L
DRO AND SURR		76709	331.755		mg/L
RRO AND SURR		611180	5357.205		mg/L

SGS Environmental Services Inc.

Sample Name: 722081 MB 17169

Date/Time: 8/23/2006 3:33:18 PM

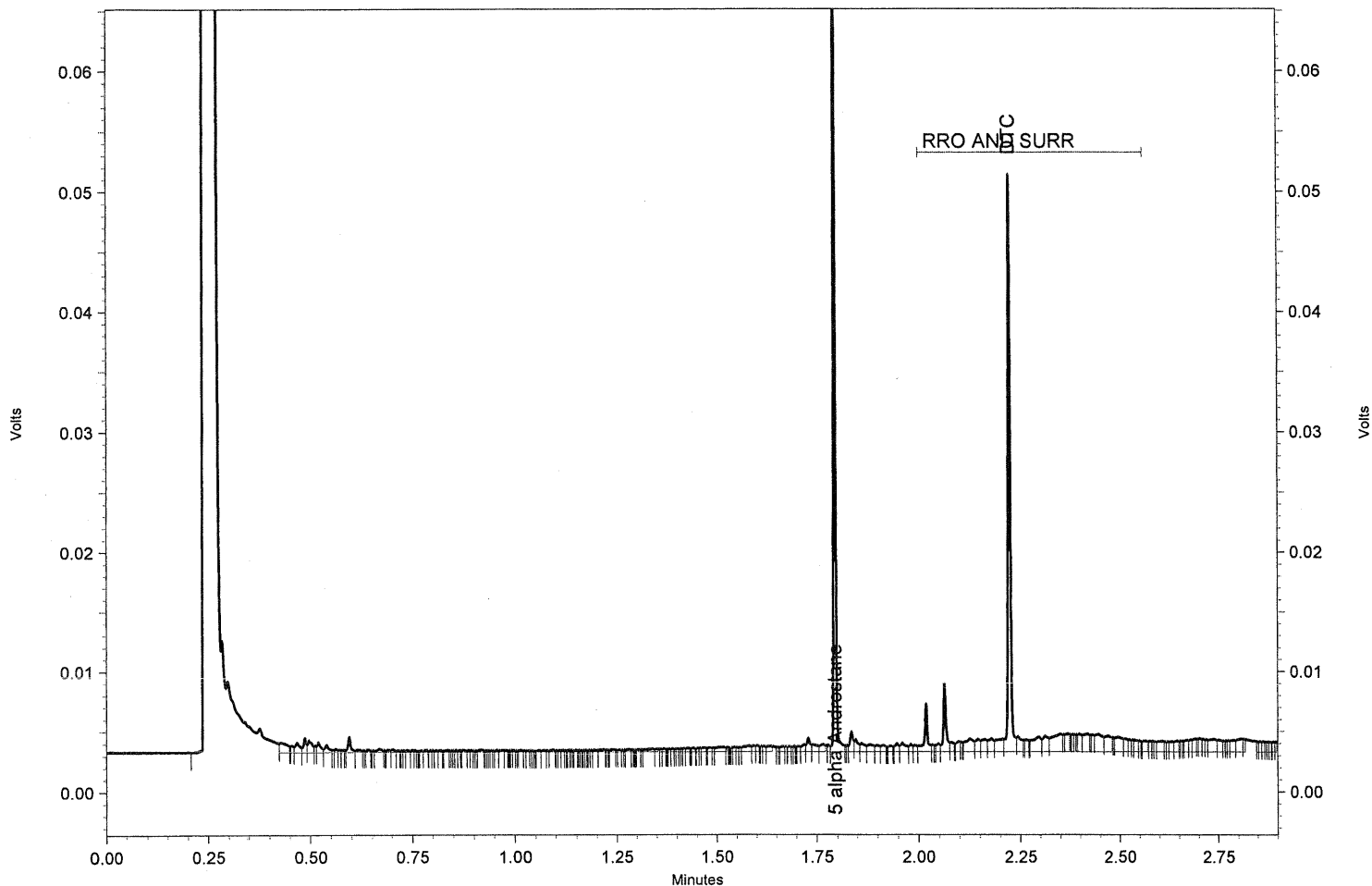
Analyst: JE

Dilution: 1

Method: E:\Public\2006\08\SD\METHOD\SDR071106C.met

Sample File: E:\Public\2006\08\SD\Data\082306R\SDR07110823_044.DAT

DRO/RRO



Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.794	23253	94.000	LL	
DTC	2.224	19818	101.980	LL	
DRO		21815	94.347	LC	mg/L
RRO		34904	305.946	LC	mg/L
DRO AND SURR		45068	194.912	LC	mg/L
RRO AND SURR		54722	479.657	LC	mg/L

SGS Environmental Services Inc.

Sample Name: 722082 LCS 17169

Date/Time: 8/23/2006 3:38:15 PM

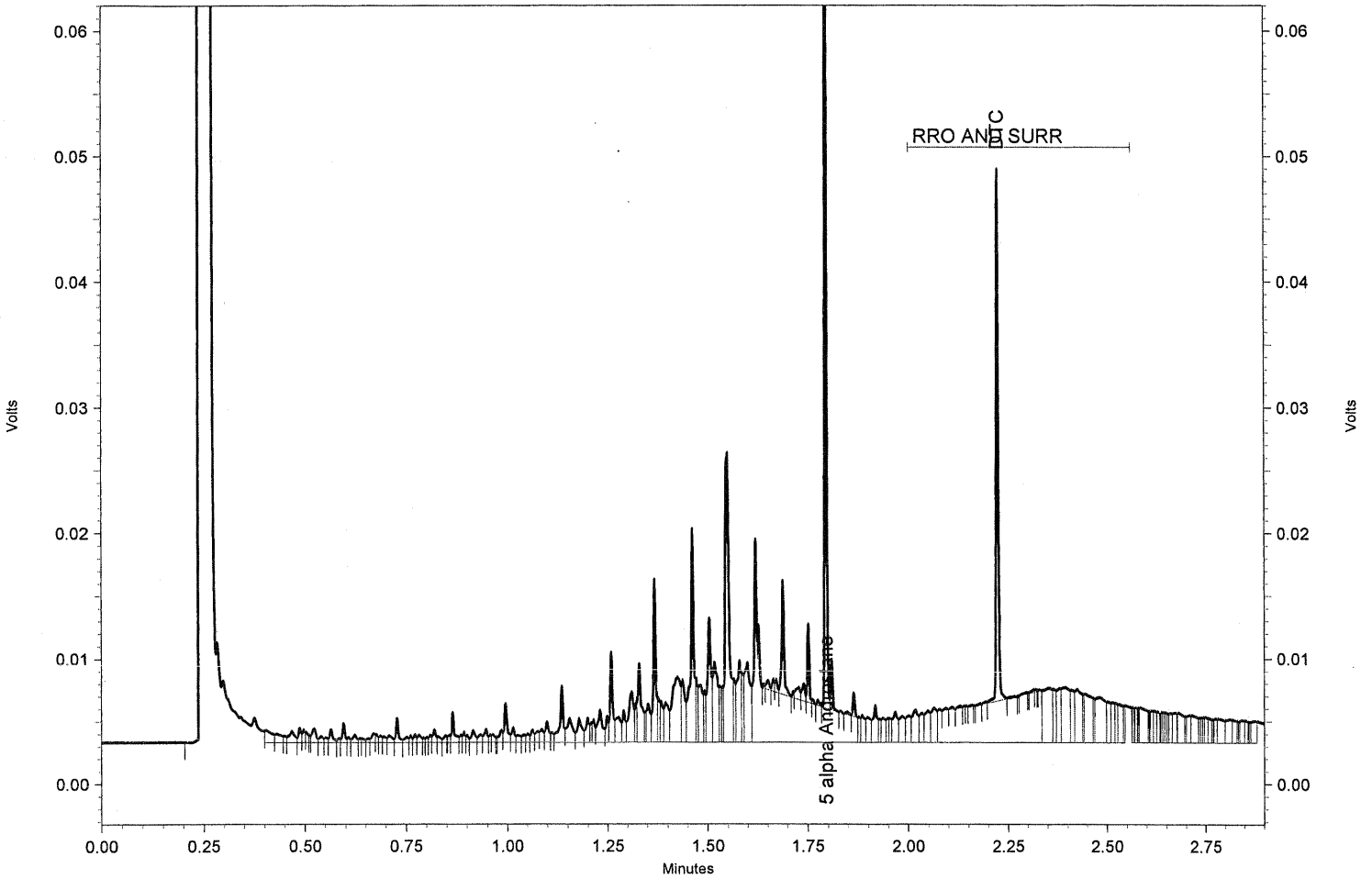
Analyst: JE

Dilution: 1

Method: E:\Public\2006\08\SD\METHOD\SDR071106C.met

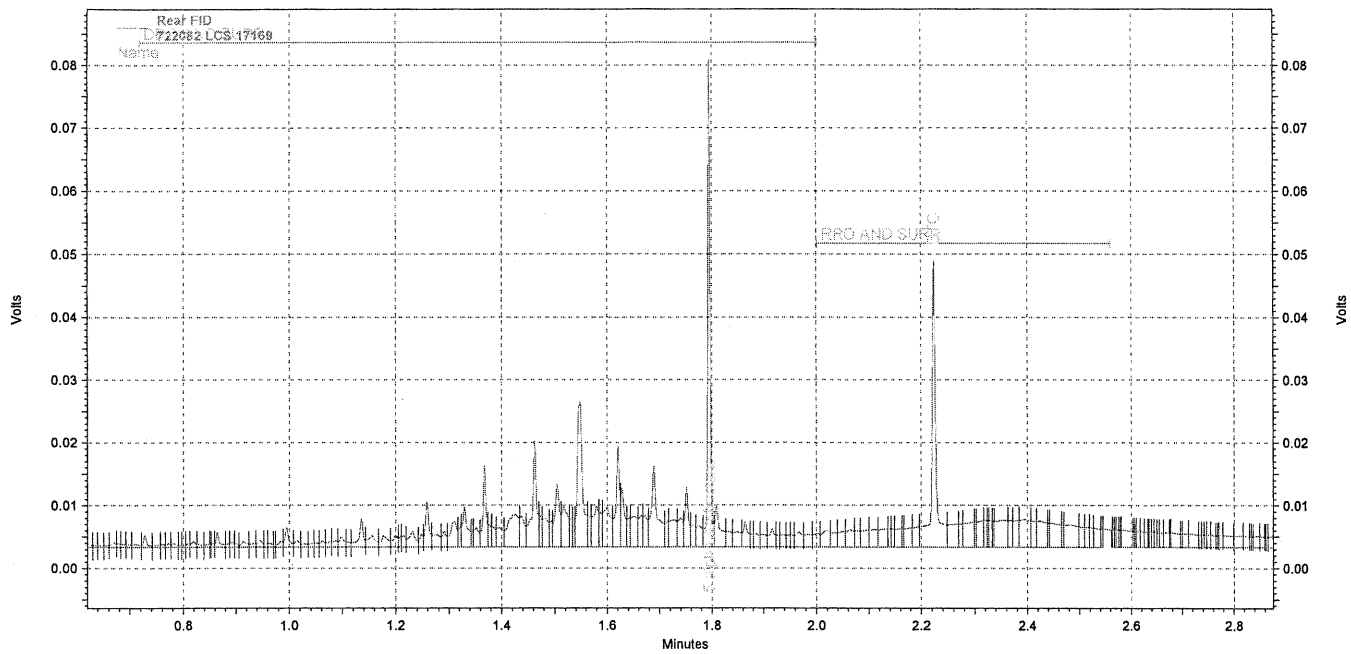
Sample File: E:\Public\2006\08\SD\Data\082306R\SDR07110823_045.DAT

DRO/RRO



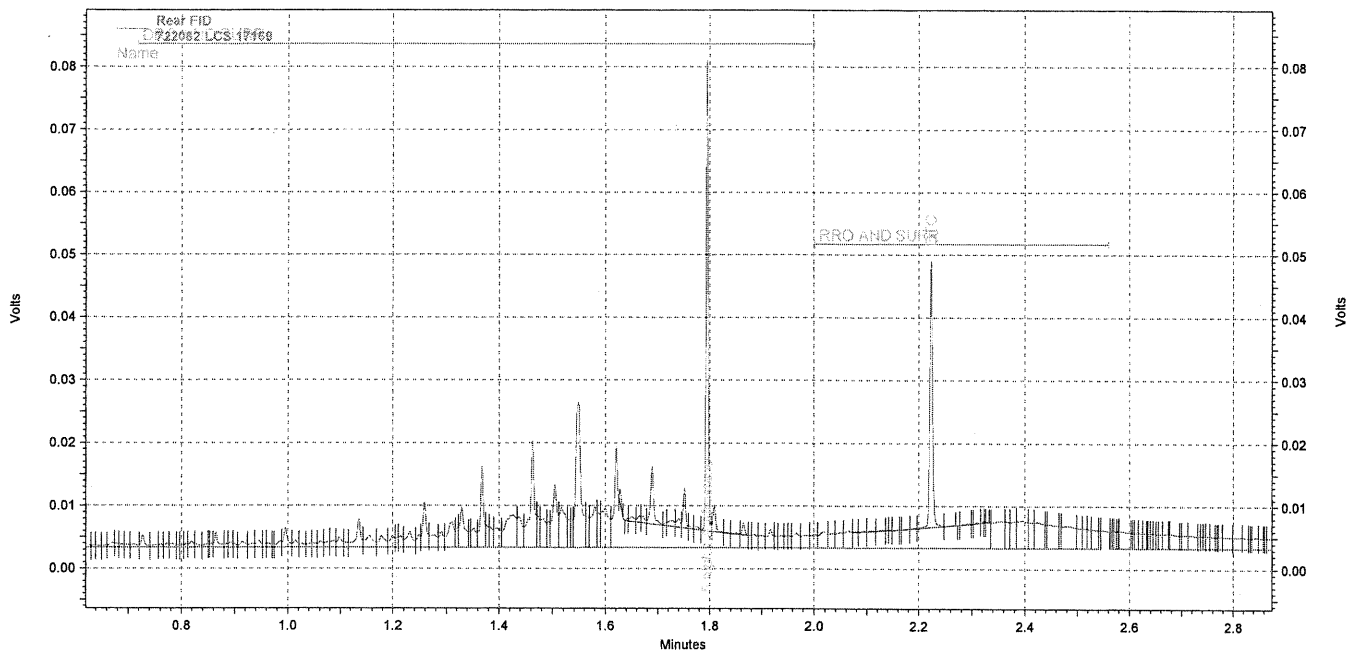
Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.795	22541	91.122	LT	
DTC	2.224	16167	83.193	TL	
DRO		213640	923.961		mg/L
RRO		110889	971.981		mg/L
DRO AND SURR		236181	1021.448		mg/L
RRO AND SURR		127056	1113.690		mg/L



E:\Public\2006\08\SD\Data\082306R\SDR07110823_045.DAT, Rear FID

*before
JE 8/23/06*



E:\Public\2006\08\SD\Data\082306R\SDR07110823_045.DAT, Rear FID

*after
K 8/23/06*

SGS Environmental Services Inc.

Sample Name: MS 17169

Date/Time: 8/23/2006 3:53:09 PM

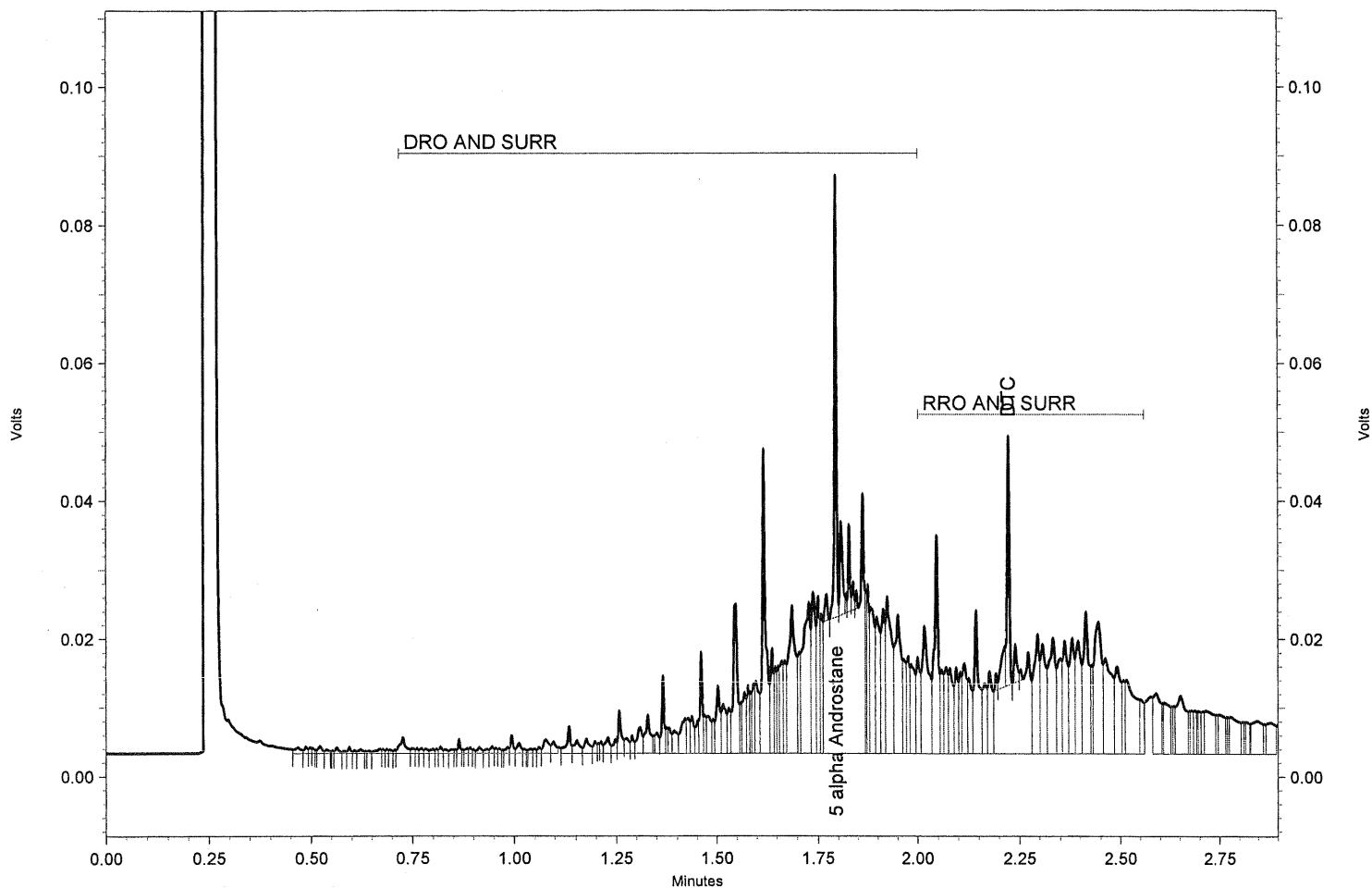
Analyst: JE

Dilution: 1

Method: E:\Public\2006\08\SD\METHOD\SDR071106C.met

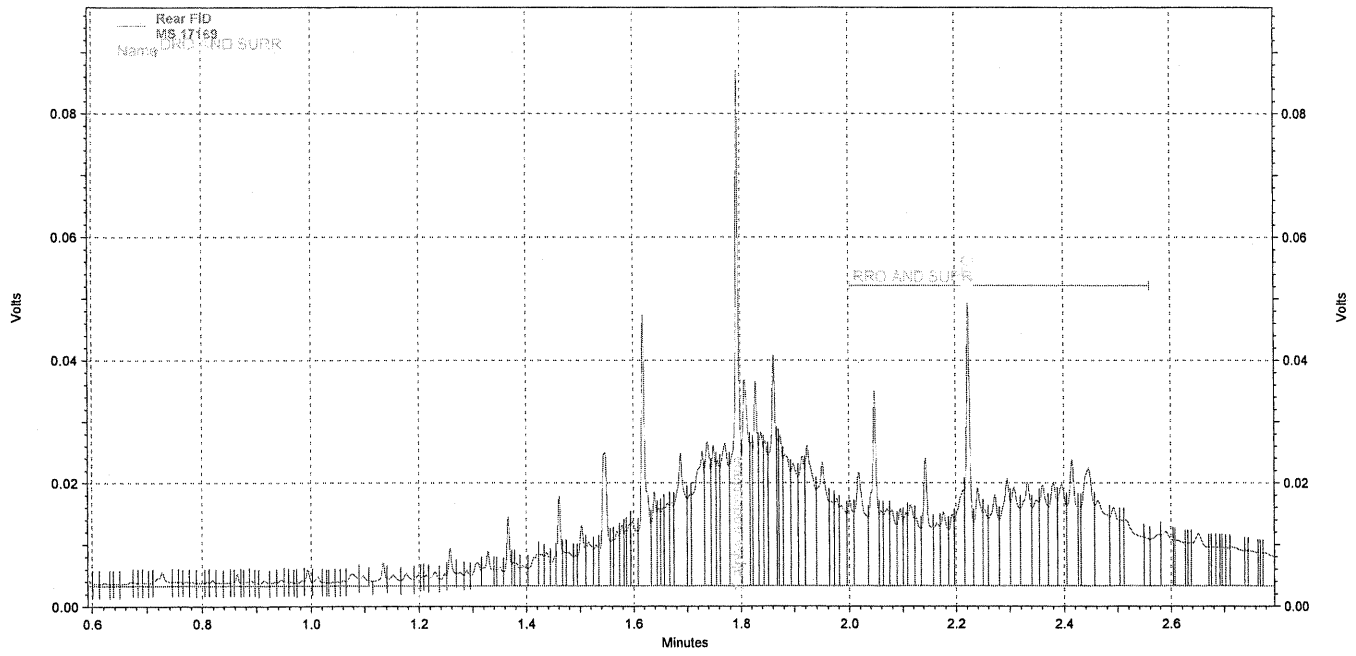
Sample File: E:\Public\2006\08\SD\Data\082306R\SDR07110823_048.DAT

DRO/RRO



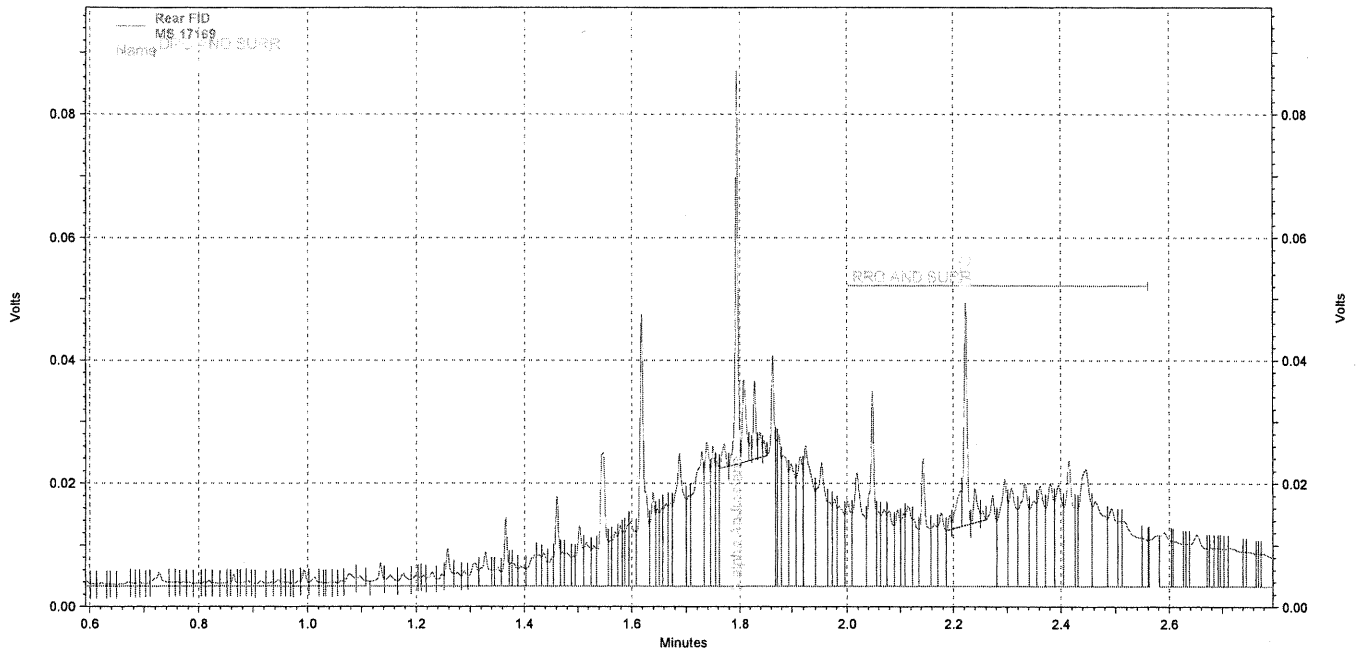
Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.794	21862	88.377	TL	
DTC	2.223	14227	73.210	TL	
DRO		596415	2579.407		mg/L
RRO		418669	3669.780		mg/L
DRO AND SURR		618277	2673.956		mg/L
RRO AND SURR		432896	3794.484		mg/L



E:\Public\2006\08\SD\Data\082306R\SDR07110823_048.DAT, Rear FID

*before
JE 8/23/06*



E:\Public\2006\08\SD\Data\082306R\SDR07110823_048.DAT, Rear FID

*after
je 8/23/06*

SGS Environmental Services Inc.

Sample Name: MSD 17169

Date/Time: 8/23/2006 3:58:05 PM

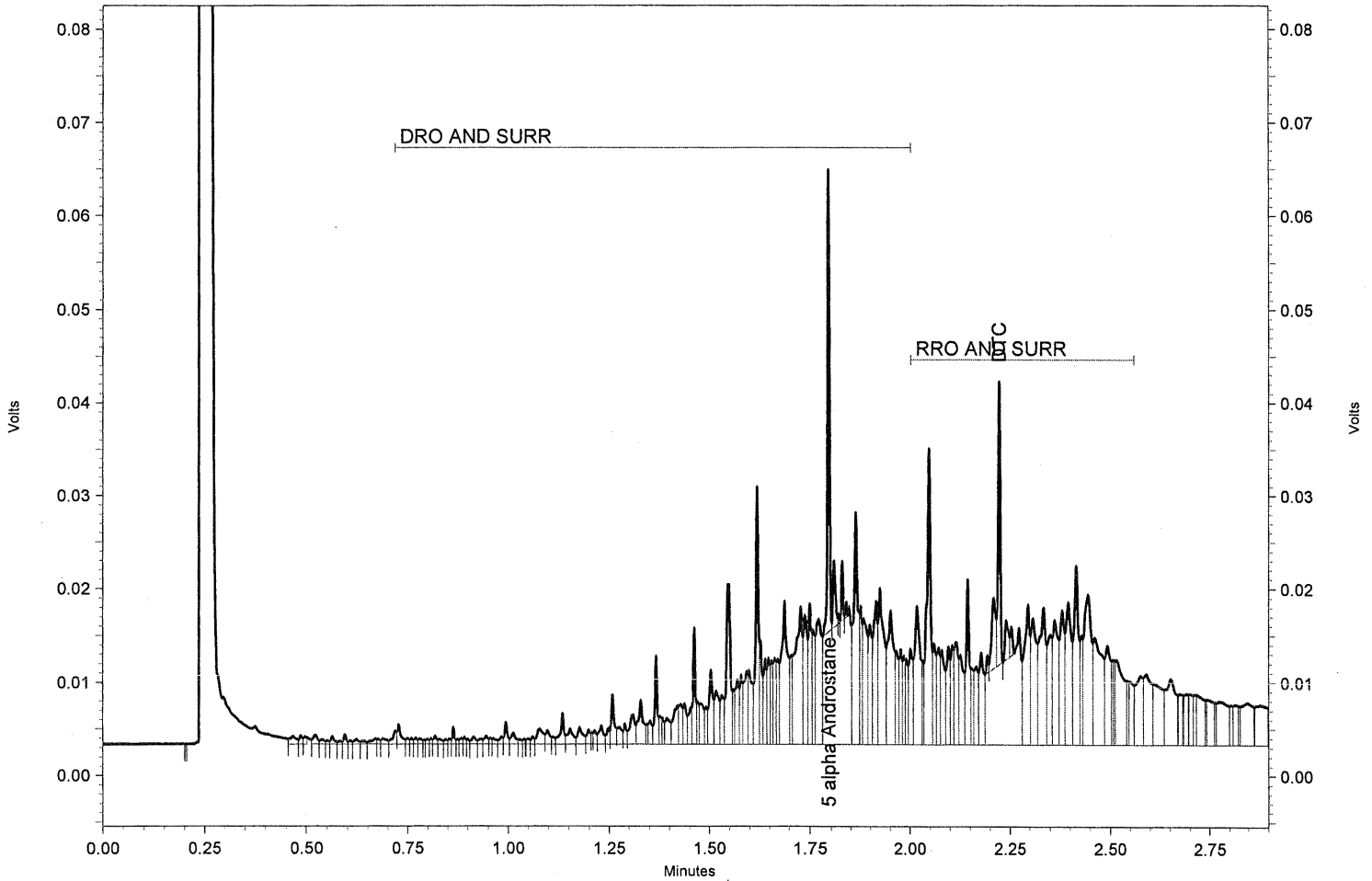
Analyst: JE

Dilution: 1

Method: E:\Public\2006\08\SD\METHOD\SDR071106C.met

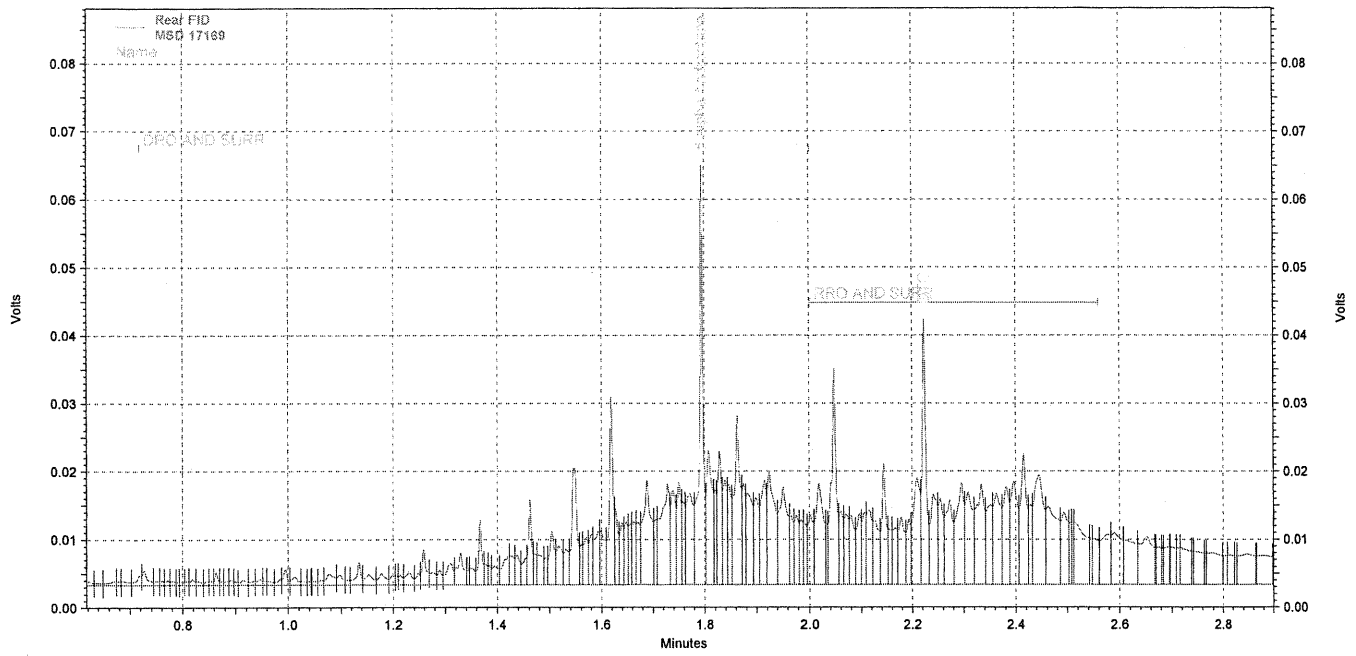
Sample File: E:\Public\2006\08\SD\Data\082306R\SDR07110823_049.DAT

DRO/RRO



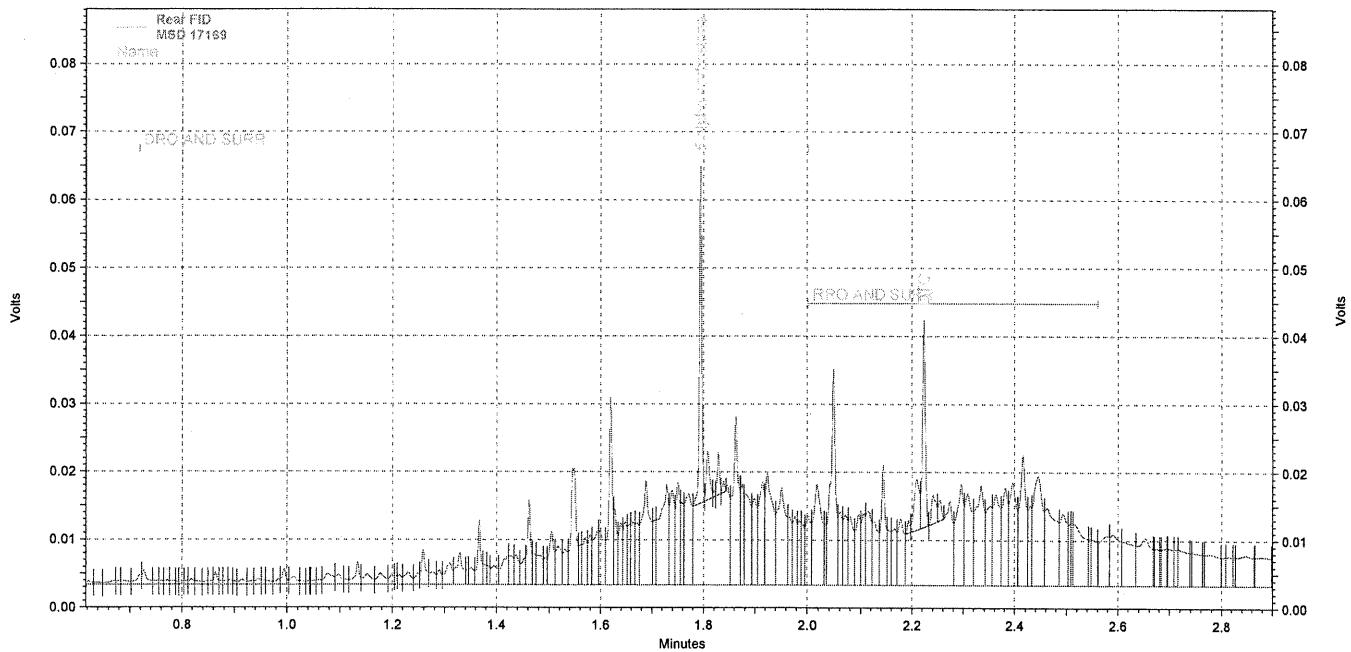
Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.794	16185	65.428	TL	
DTC	2.224	11895	61.210	LL	
DRO		411428	1779.365		mg/L
RRO		362101	3173.941		mg/L
DRO AND SURR		427613	1849.363		mg/L
RRO AND SURR		373996	3278.205		mg/L



E:\Public\2006\08\SD\Data\082306R\SDR07110823_049.DAT, Rear FID

*before
JK 8/23/06*



E:\Public\2006\08\SD\Data\082306R\SDR07110823_049.DAT, Rear FID

*after
je 8/23/06*

SGS Environmental Services Inc.

Sample Name: CCVR

Date/Time: 8/23/2006 4:07:58 PM

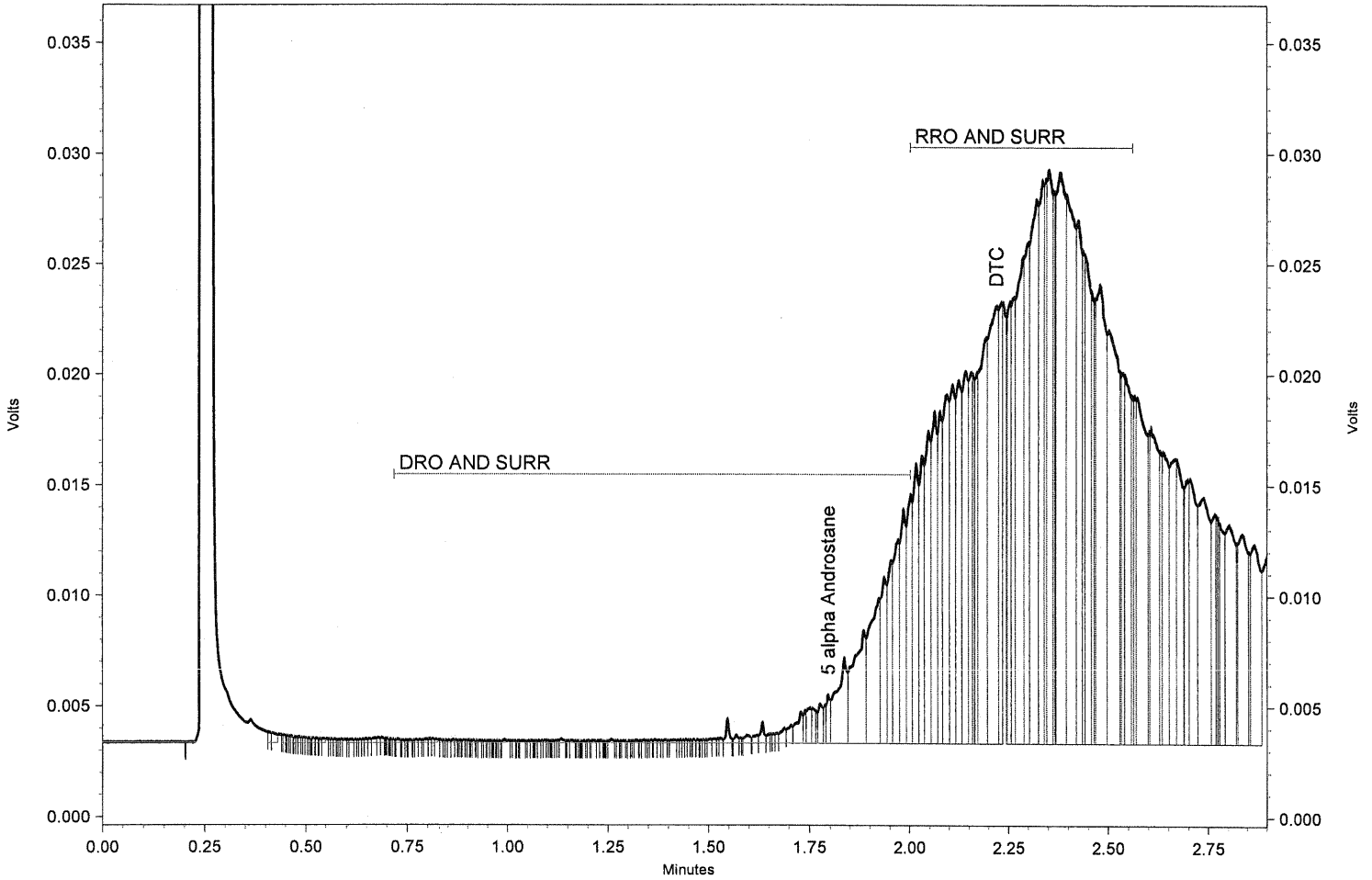
Analyst: JE

Dilution: 1

Method: E:\Public\2006\08\SD\METHOD\SDR071106C.met

Sample File: E:\Public\2006\08\SD\Data\082306R\SDR07110823_051.DAT

DRO/RRO



Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.795	1471	5.947	LL	
DTC	2.219	32356	166.499	LL	
DRO		79758	344.942		mg/L
RRO		606991	5320.487		mg/L
DRO AND SURR		81229	351.303		mg/L
RRO AND SURR		639347	5604.099		mg/L

SGS Environmental Services Inc.

Sample Name: IB

Date/Time: 8/23/2006 4:17:50 PM

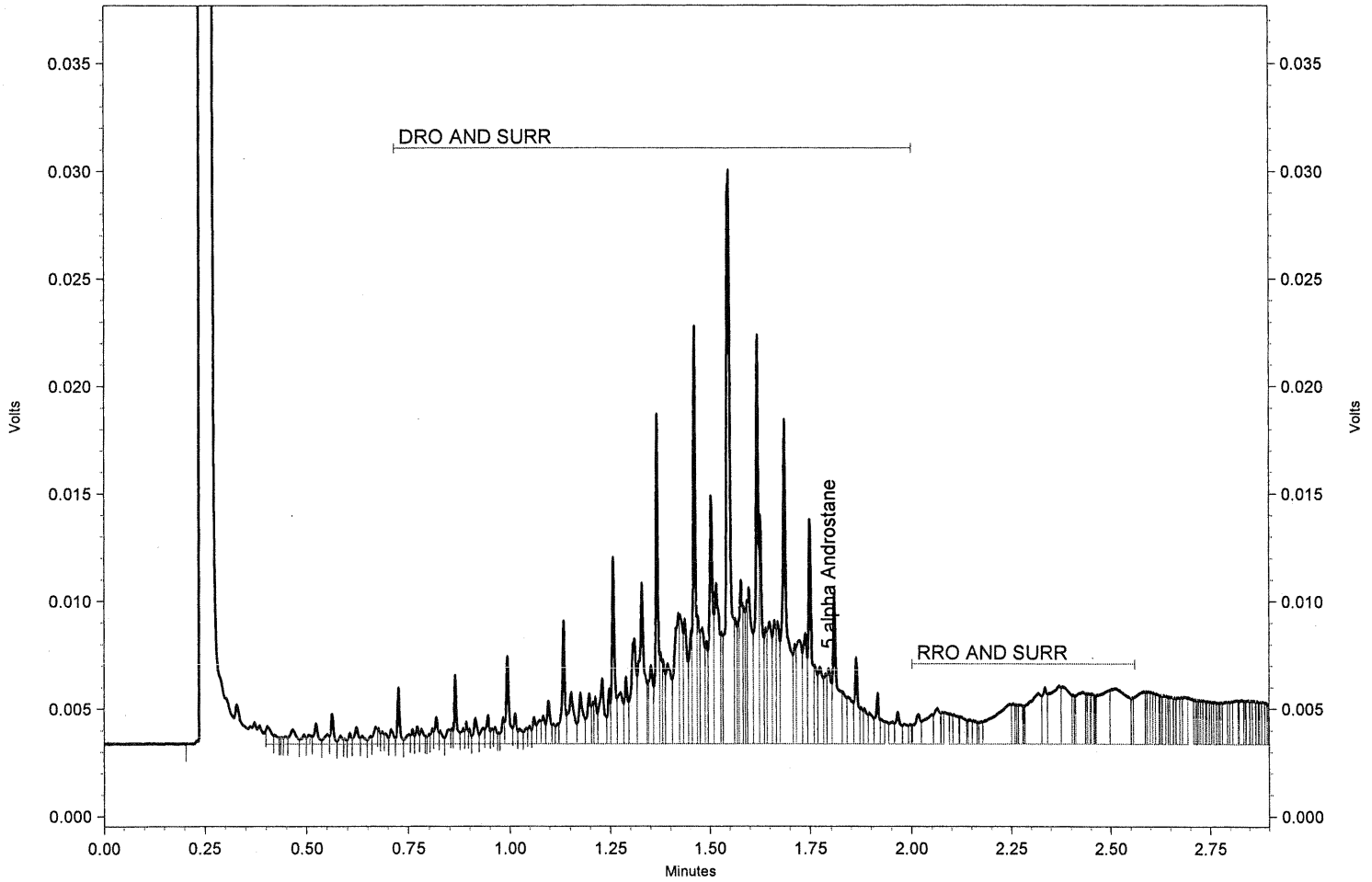
Analyst: JE

Dilution: 1

Method: E:\Public\2006\08\SD\METHOD\SDR071106C.met

Sample File: E:\Public\2006\08\SD\Data\082306R\SDR07110823_053.DAT

DRO/RRO



Rear FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	1.795	2289	9.253	LL	
DRO		236087	1021.041		mg/L
RRO		59036	517.471		mg/L
DRO AND SURR		238376	1030.941		mg/L
RRO AND SURR		59036	517.471		mg/L

SGS Environmental, Inc.

Analytical Quality Control Summary Data

Work Order(s): III ✓ III ✓
 1064852, 1064875, 1064903, 1064905 ✓

Queue: **XFC** Batch: **7118**
 Method: AK102, AK102/103

Run Date: 08/24/06 09:06 - 08/24/06 16:56

Extraction Batch(es): XXX17165 ✓, XXX17173 ✓

QC Parameter	Goals Met?		
Calibration:	(Y)	N	N/A
Instrument/Method Blank:	(Y)	N	N/A
Initial/Continuing Calibration Verifications:	(Y)	N	N/A
Laboratory Control Sample:	Y	(N)	N/A
Laboratory Control Sample Duplicate:	Y	N	(N/A)
Relative Percent Difference:	Y	N	(N/A)
Sample Duplicate:	Y	N	(N/A)
Matrix Spike:	Y	(N)	N/A
Matrix Spike Duplicate:	Y	(N)	N/A
Relative Percent Difference:	Y	(N)	N/A
Surrogates:	(Y)	N	N/A
Sample Holding Time:	(Y)	N	N/A
Internal Standards	Y	N	(N/A)
GCMS Tuner/DDT Sample	Y	N	(N/A)

See case narrative/sample comments for further information : _____

Additional Notes:

final of partial batch

Is there any further action necessary for any out of control events described above? Y N

Should a Corrective Action be initiated? Y N

I certify that except as specifically noted in this report, all statements and data appearing in this report are in conformance with the provisions of the Quality Assurance Plan (QAP) prepared by this firm and on file with the Alaska Department of Environmental Conservation.

Analyst's Signature: Jennifer Enceloso Reviewer's Signature: Shane Poston

Date: 8/26/06

Date: 8-28-06

SGS Environmental Services Inc.

Sample Name: IB

Date/Time: 8/24/2006 9:06:54 AM

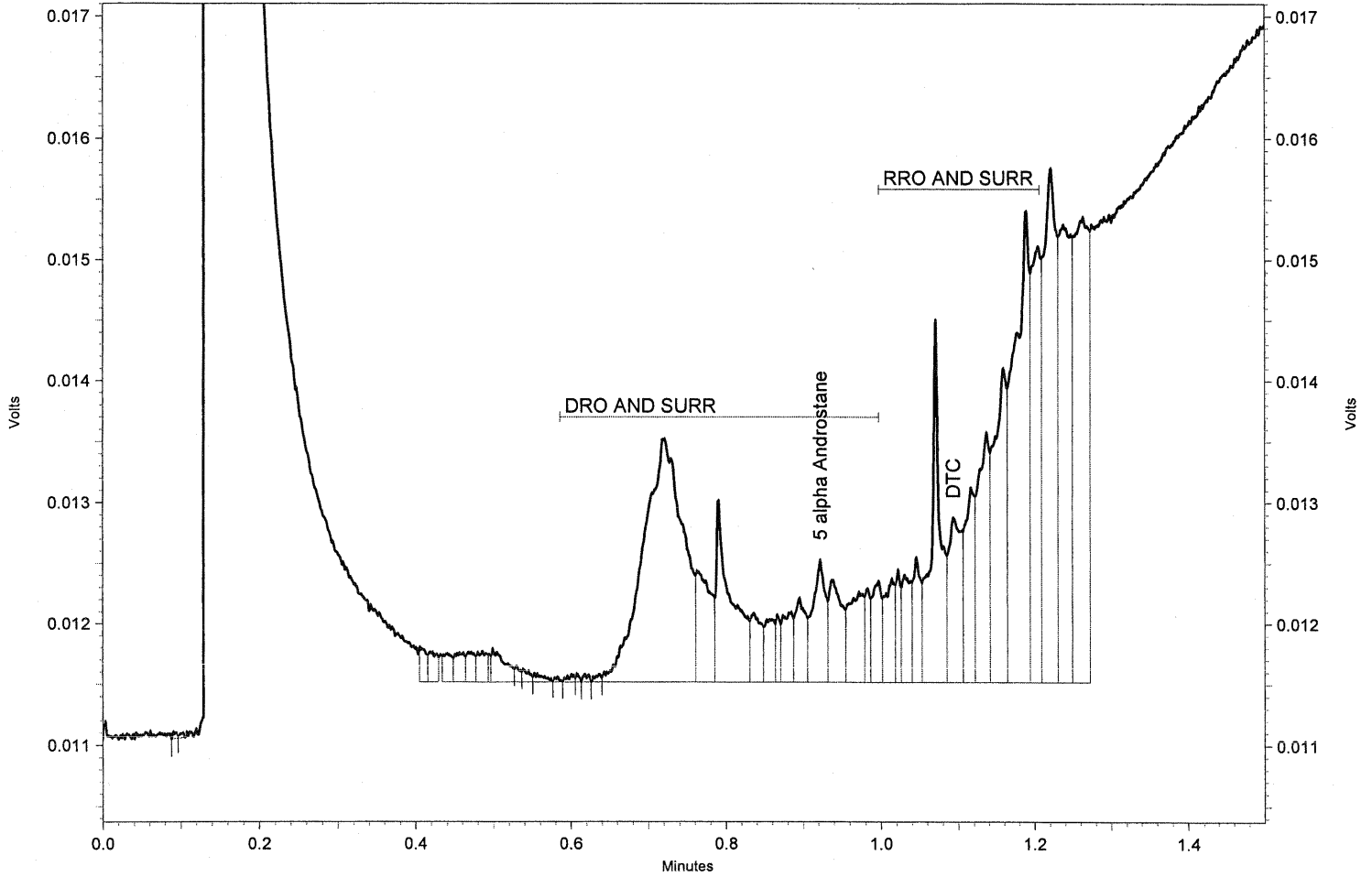
Analyst: JE

Dilution: 1

Method: E:\Public\2006\08\SA\METHOD\SAF071906ZAZ.met

Sample File: E:\Public\2006\08\SA\Data\082406\SAF07190824_001-Rep5.DAT

DRO/RRO



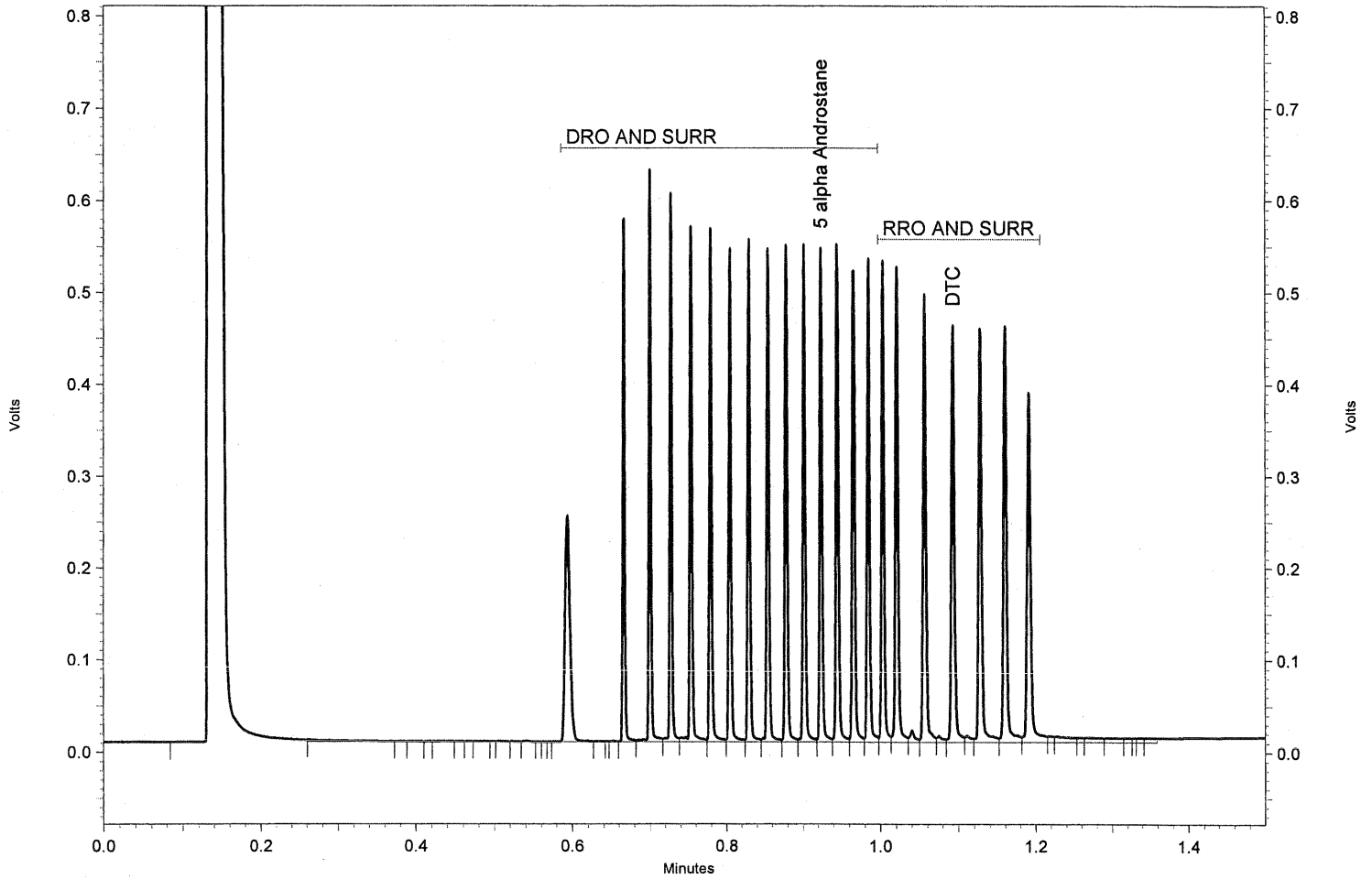
Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.923	1187	2.799	LL	mg/L
DTC	1.093	1548	3.663	LL	mg/L
DRO		16023	40.027	LC	mg/L
RRO		20192	86.685	LC	mg/L
DRO AND SURRE		17210	42.992	LC	mg/L
RRO AND SURRE		21740	93.331	LC	mg/L

SGS Environmental Services Inc.

Sample Name: C10-C26, C28, C30, C32, C34, C36
 Date/Time: 8/24/2006 9:11:02 AM Analyst: JE Dilution: 1
 Method: E:\Public\2006\08\SA\METHOD\SAF071906ZA.met
 Sample File: E:\Public\2006\08\SA\Data\082406\SAF07190824_002.DAT

DRO/RRO



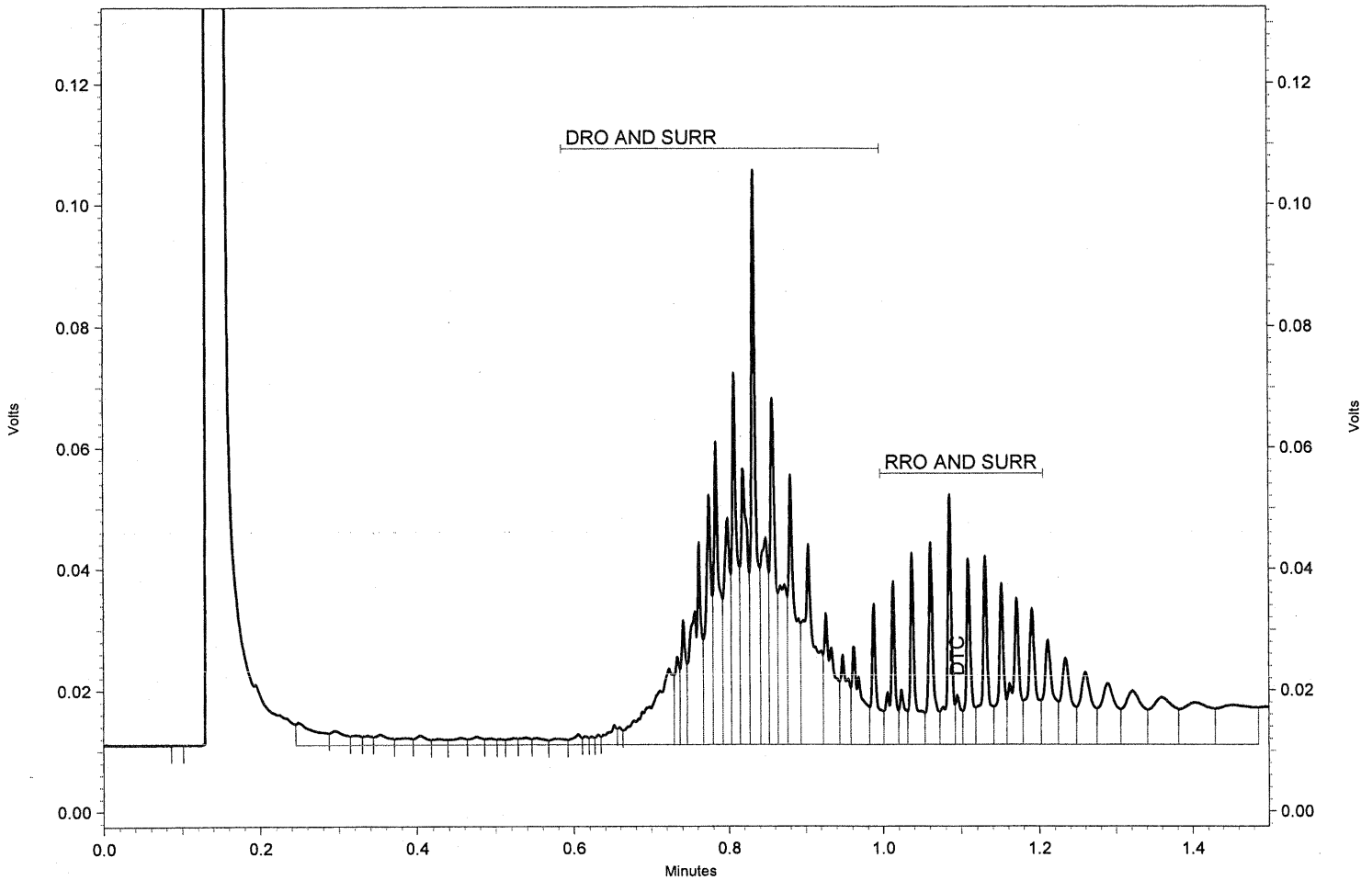
Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.924	121464	286.408	LL	mg/L
DTC	1.093	121427	287.296	LL	mg/L
DRO		1642604	4103.388		mg/L
RRO		763944	3279.651		mg/L
DRO AND SURR		1764068	4406.817		mg/L
RRO AND SURR		885371	3800.944		mg/L

SGS Environmental Services Inc.

Sample Name: CCVB
 Date/Time: 8/24/2006 9:15:09 AM Analyst: JE Dilution: 1
 Method: E:\Public\2006\08\SA\METHOD\SAF071906ZA.met
 Sample File: E:\Public\2006\08\SA\Data\082406\SAF07190824_003.DAT

DRO/RRO



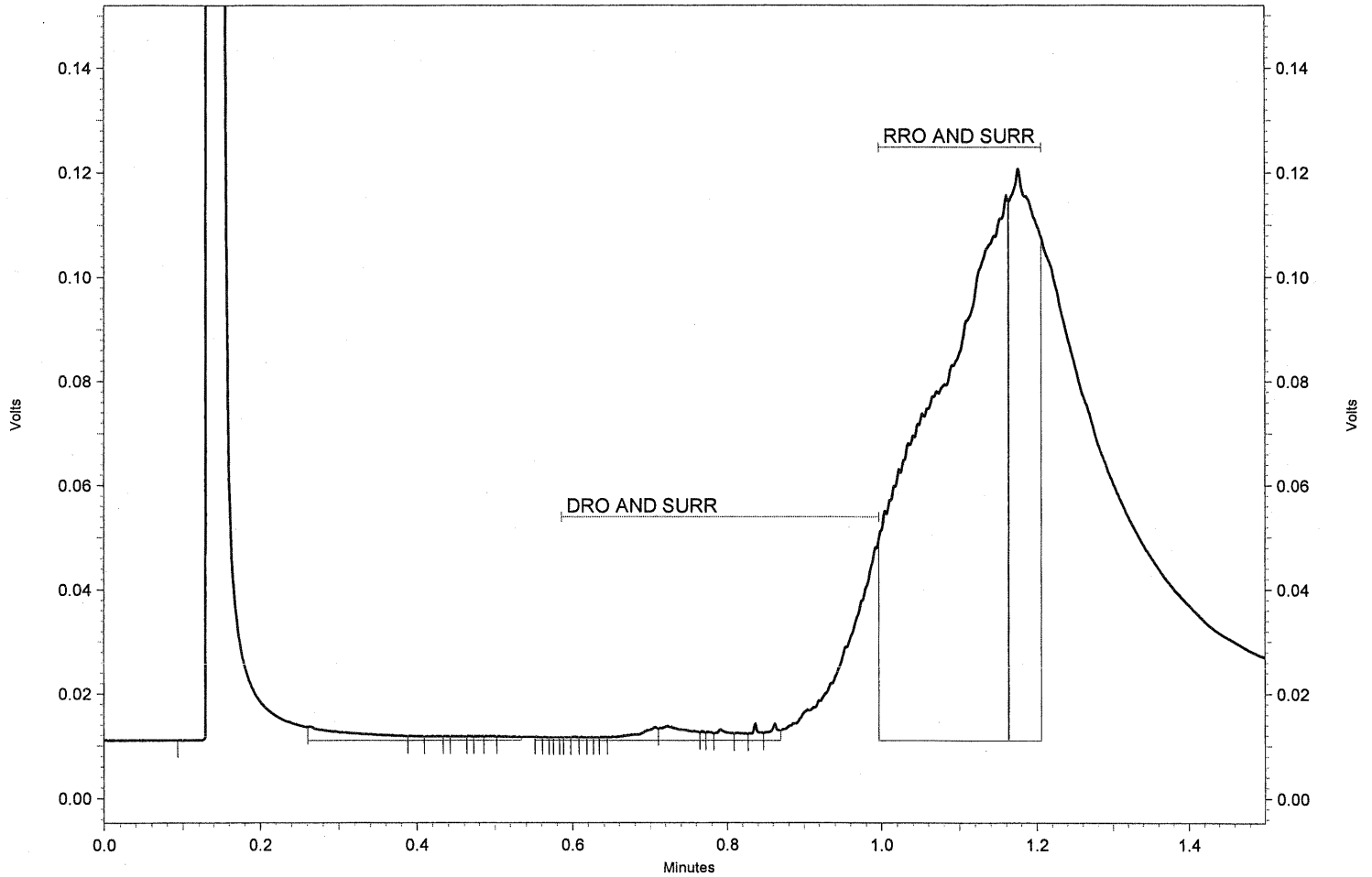
Front FID Results

Name	R.T.	Area	Amount	IC	Units
DTC	1.095	3689	8.728	LL	mg/L
DRO		414434	1035.297		mg/L
RRO		135418	581.356		mg/L
DRO AND SURRE		414434	1035.297		mg/L
RRO AND SURRE		139107	597.194		mg/L

SGS Environmental Services Inc.

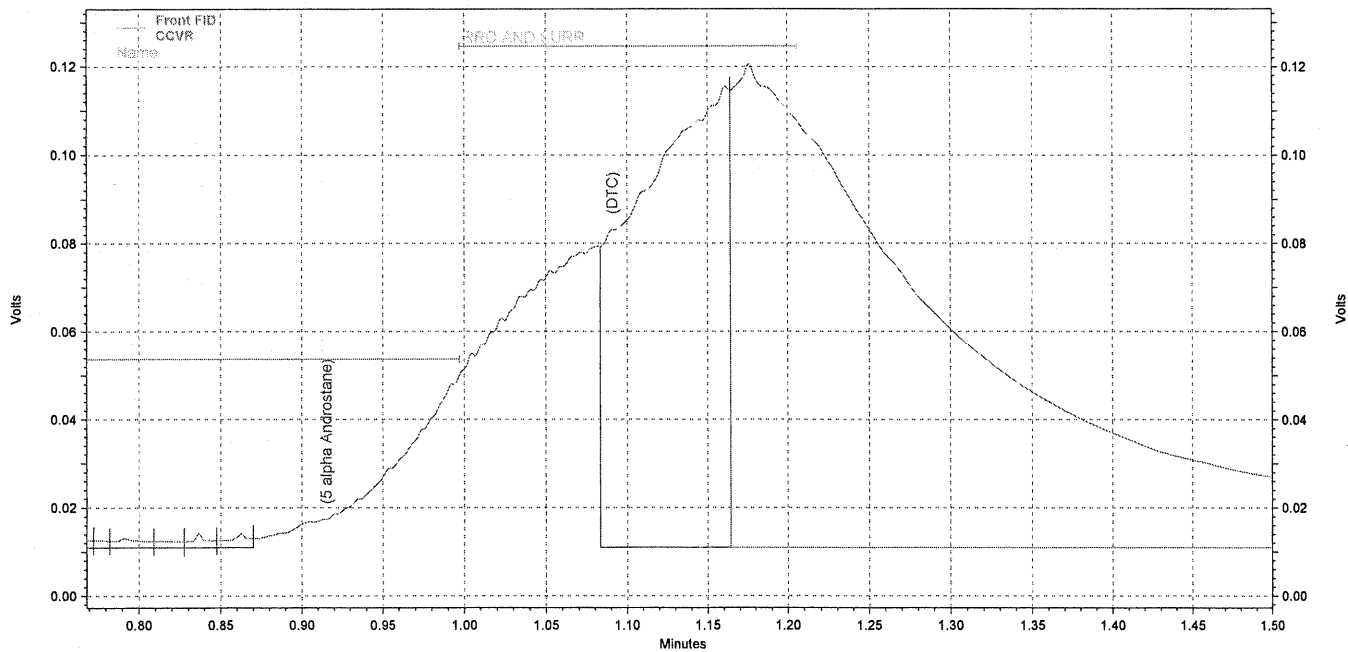
Sample Name: CCVR
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 Method: E:\Public\2006\08\SA\METHOD\SAF071906ZA.met
 Sample File: E:\Public\2006\08\SA\Data\082406\SAF07190824_004.DAT

DRO/RRO



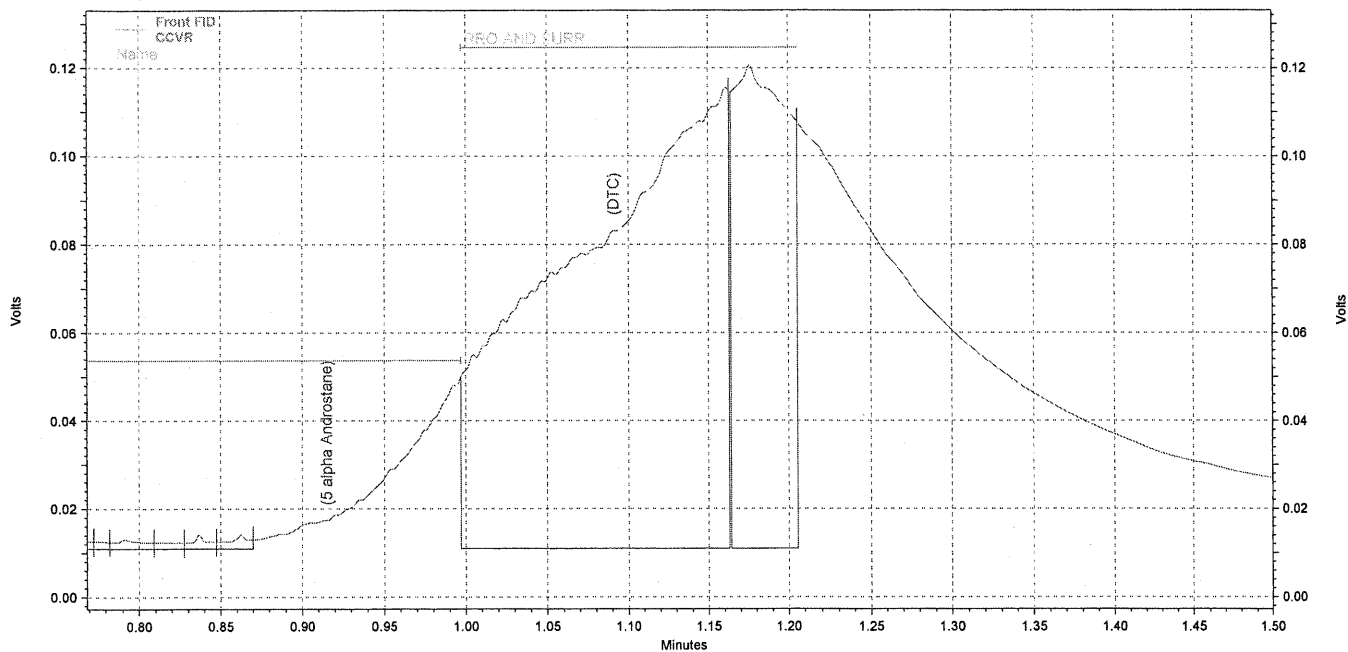
Front FID Results

Name	R.T.	Area	Amount	IC	Units
DRO		24190	60.429 LC		mg/L
RRO		970211	4165.166		mg/L
DRO AND Surr		24190	60.429 LC		mg/L
RRO AND Surr		970211	4165.166		mg/L



E:\Public\2006\08\SA\Data\082406\SAF07190824_004.DAT, Front FID

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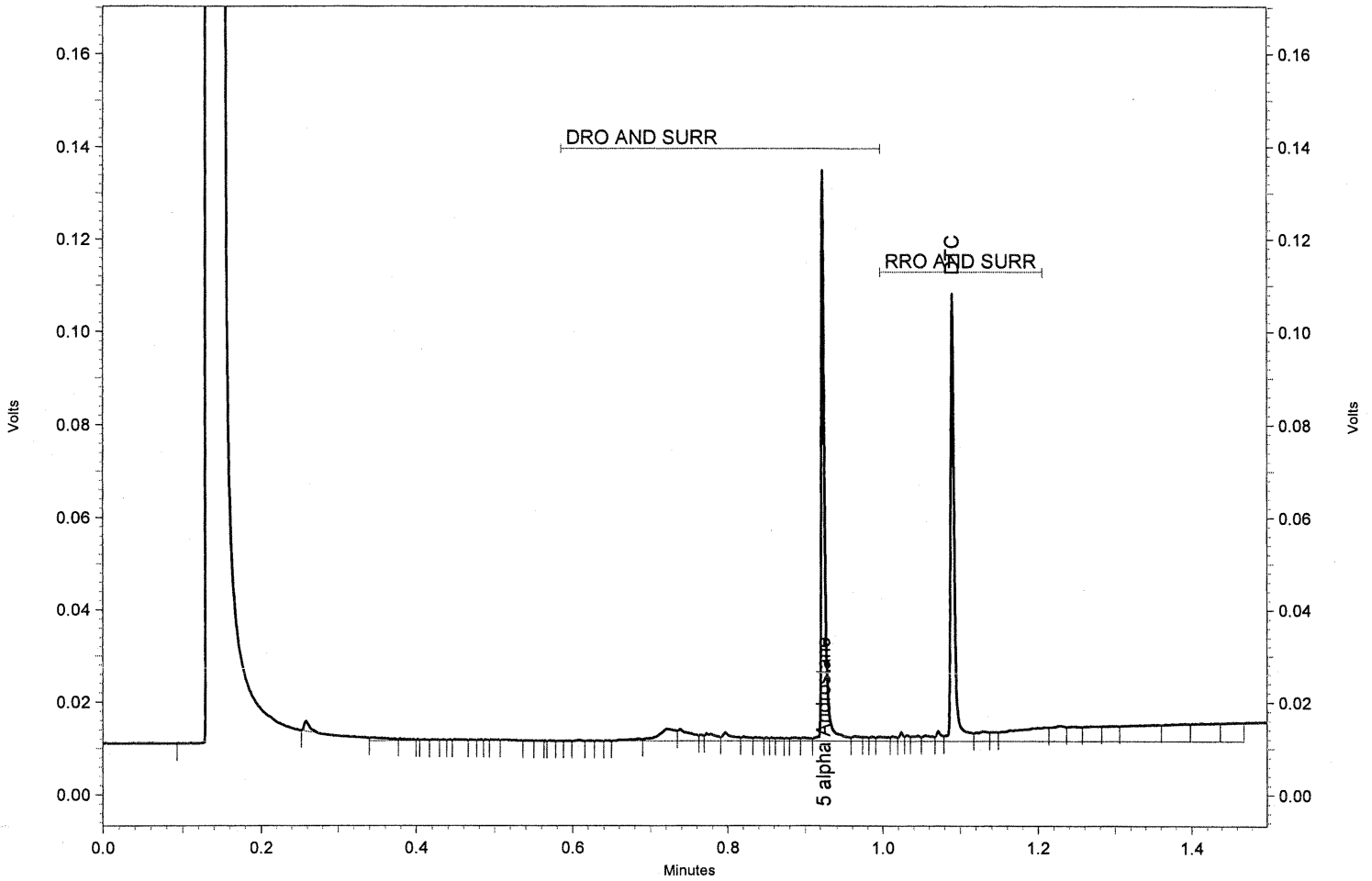
E:\Public\2006\08\SA\Data\082406\SAF07190824_004.DAT, Front FID

*after
K 8/24/06*

SGS Environmental Services Inc.

Sample Name: 722000 MB 17165
 Date/Time: 8/24/2006 9:31:51 AM Analyst: JE Dilution: 1
 Method: E:\Public\2006\08\SA\METHOD\SAF071906ZAZ.met
 Sample File: E:\Public\2006\08\SA\Data\082406\SAF07190824_007.DAT

DRO/RRO



Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.924	36375	85.771	LL	mg/L
DTC	1.090	31944	75.579	LL	mg/L
DRO		18227	45.533	LC	mg/L
RRO		8448	36.268	LC	mg/L
DRO AND Surr		54602	136.401	LC	mg/L
RRO AND Surr		40392	173.405	LC	mg/L

SGS Environmental Services Inc.

Sample Name: 722001 LCS 17165

Date/Time: 8/24/2006 9:35:57 AM

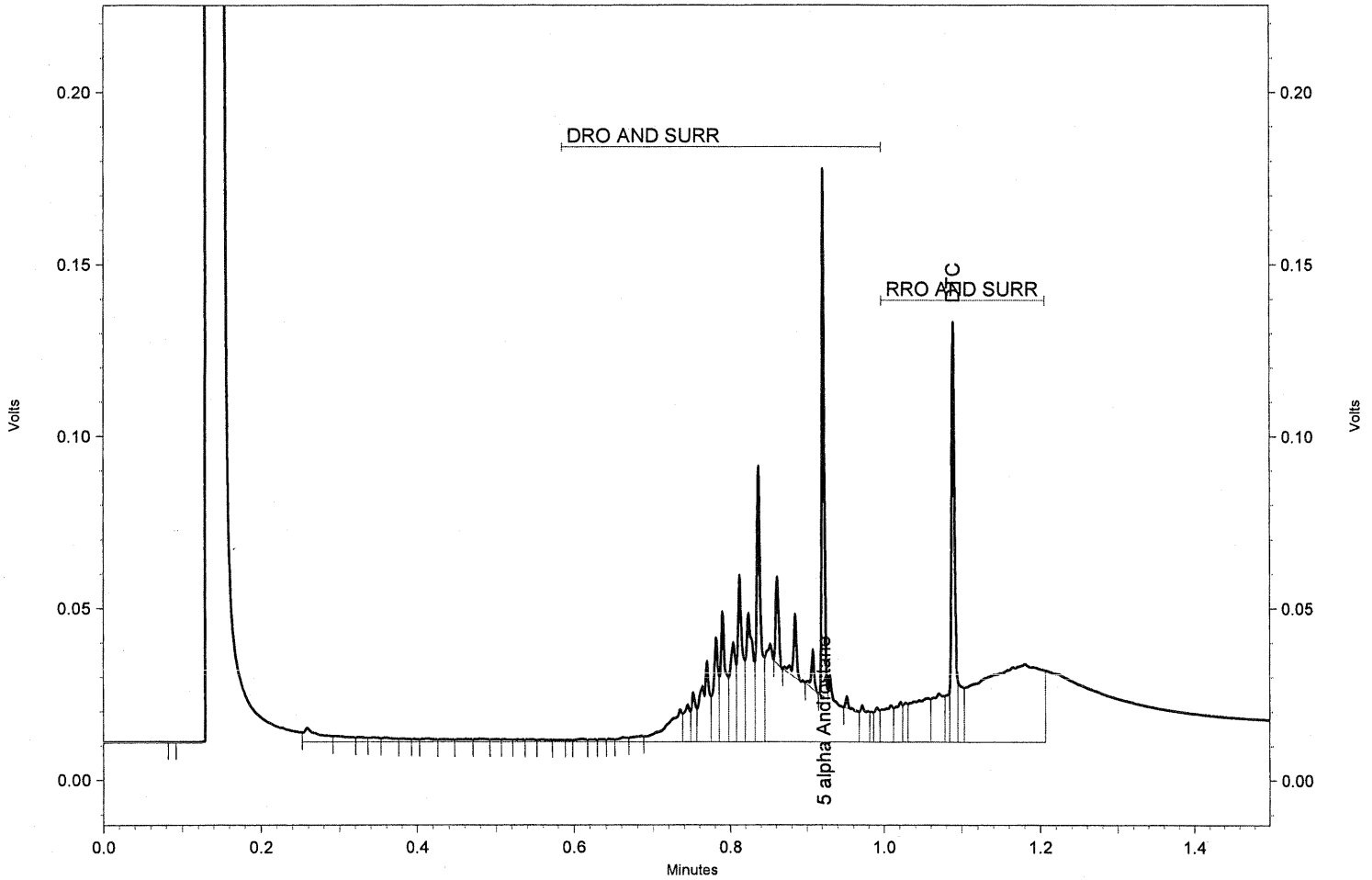
Analyst: JE

Dilution: 1

Method: E:\Public\2006\08\SA\METHOD\SAF071906ZA.met

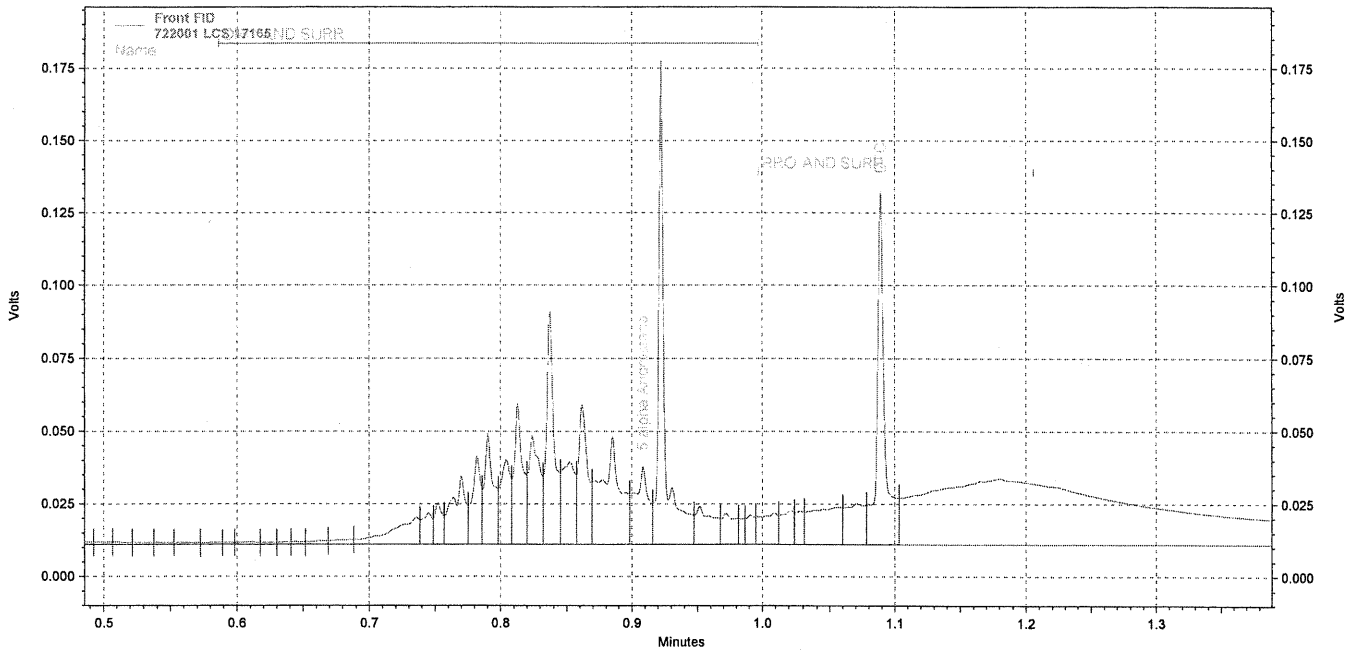
Sample File: E:\Public\2006\08\SA\Data\082406\SAF07190824_008.DAT

DRO/RRO



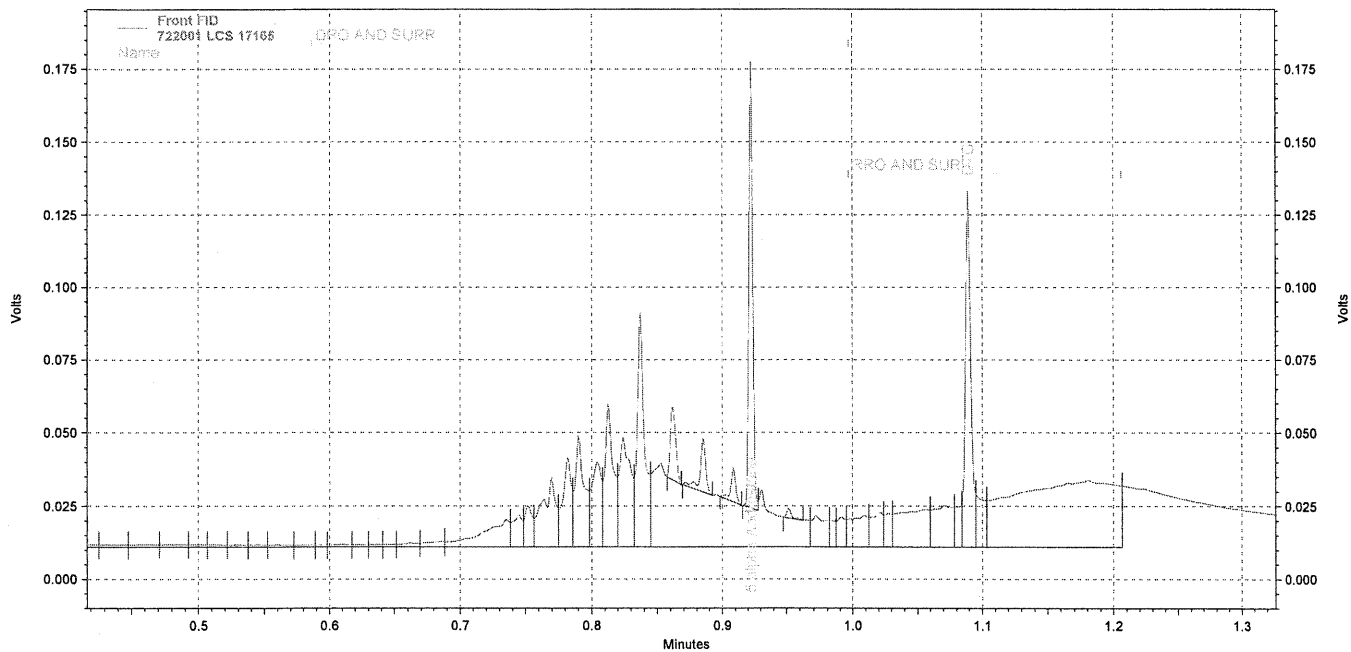
Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.923	32934	77.657	Lf	mg/L
DTC	1.089	36952	87.428	xx	mg/L
DRO		322582	805.842		mg/L
RRO		194489	834.951		mg/L
DRO AND SURRE		355516	888.114		mg/L
RRO AND SURRE		231441	993.588		mg/L



E:\Public\2006\08\SA\Data\082406\SAF07190824_008.DAT, Front FID

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JE 8/24/06*



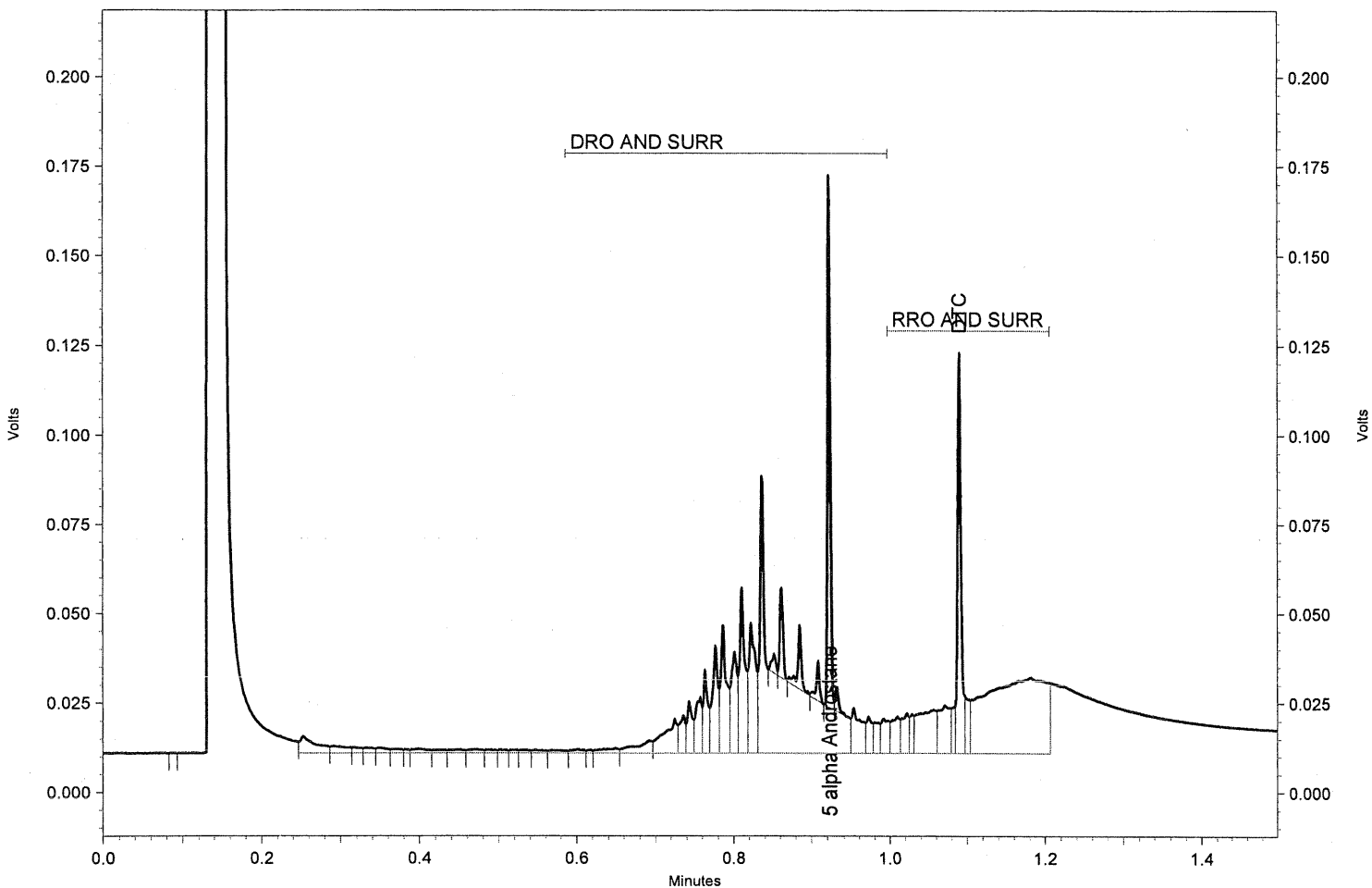
E:\Public\2006\08\SA\Data\082406\SAF07190824_008.DAT, Front FID

*after
R 8/24/06*

SGS Environmental Services Inc.

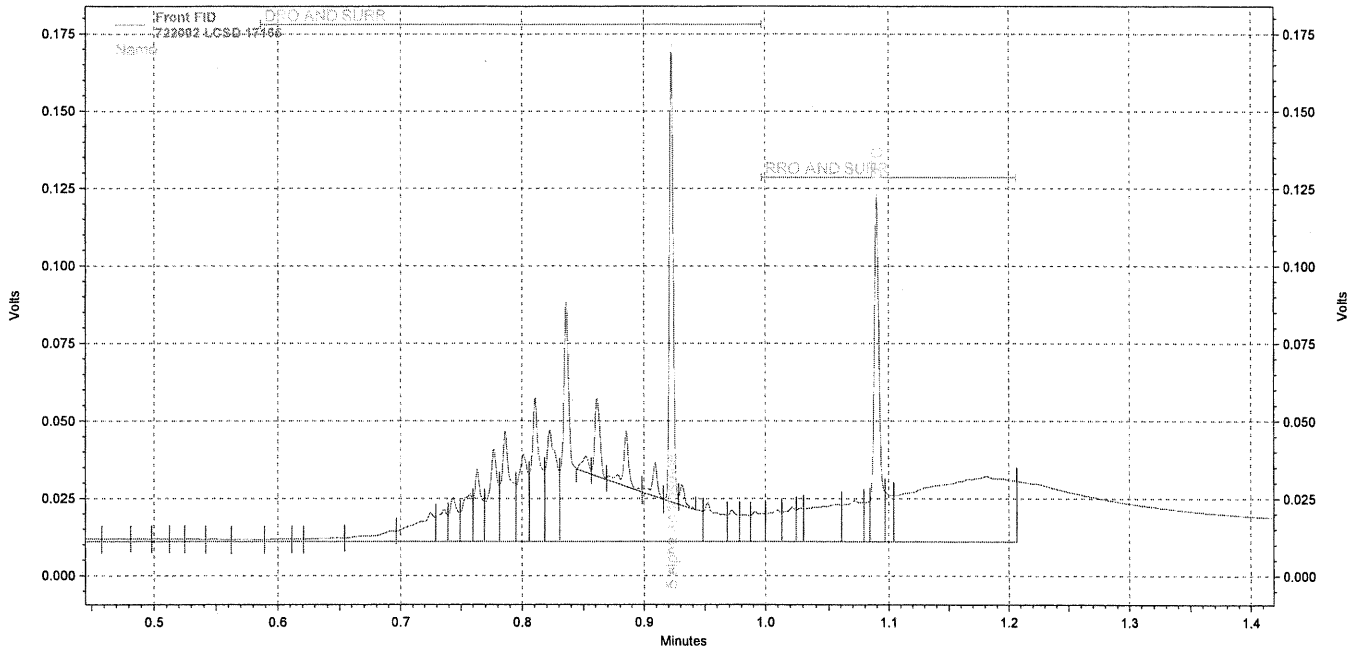
Sample Name: 722002 LCSD 17165
 Date/Time: 8/24/2006 9:40:27 AM Analyst: JE Dilution: 1
 Method: E:\Public\2006\08\SA\METHOD\SAF071906ZA.met
 Sample File: E:\Public\2006\08\SA\Data\082406\SAF07190824_009.DAT

DRO/RRO



Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.923	32167	75.849	LL	mg/L
DTC	1.090	35870	84.868	xx	mg/L
DRO		327461	818.030		mg/L
RRO		177904	763.751		mg/L
DRO AND SURR		359628	898.387		mg/L
RRO AND SURR		213774	917.743		mg/L



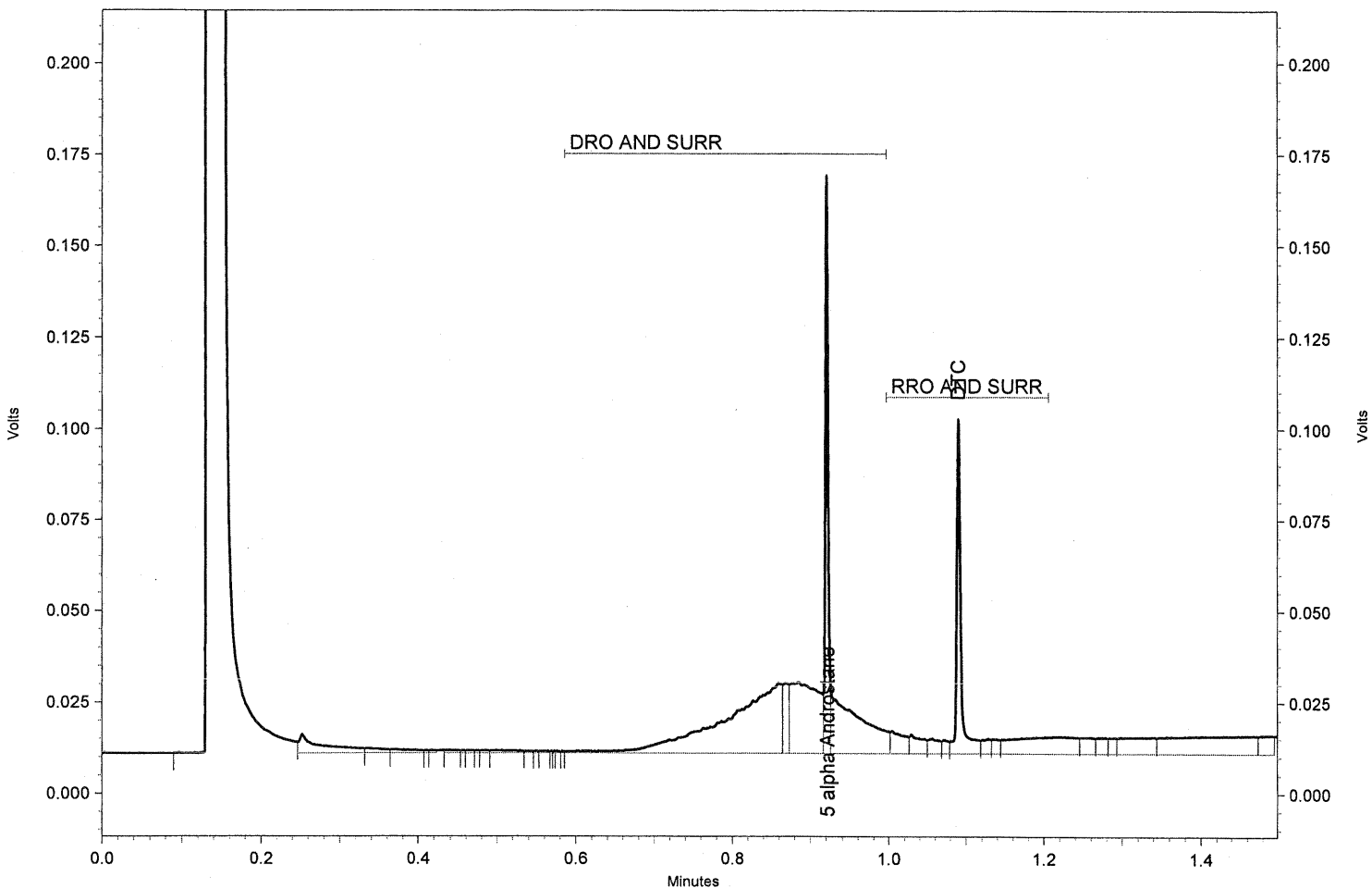
E:\Public\2006\08\SA\Data\082406\SAF07190824_009.DAT, Front FID

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for 8/24/06*

SGS Environmental Services Inc.

Sample Name: 1064875003 H
 Date/Time: 8/24/2006 12:57:48 PM Analyst: JE Dilution: 1
 Method: E:\Public\2006\08\SA\METHOD\SAF071906ZA.met
 Sample File: E:\Public\2006\08\SA\Data\082406\SAF07190824_020.DAT

DRO/RRO



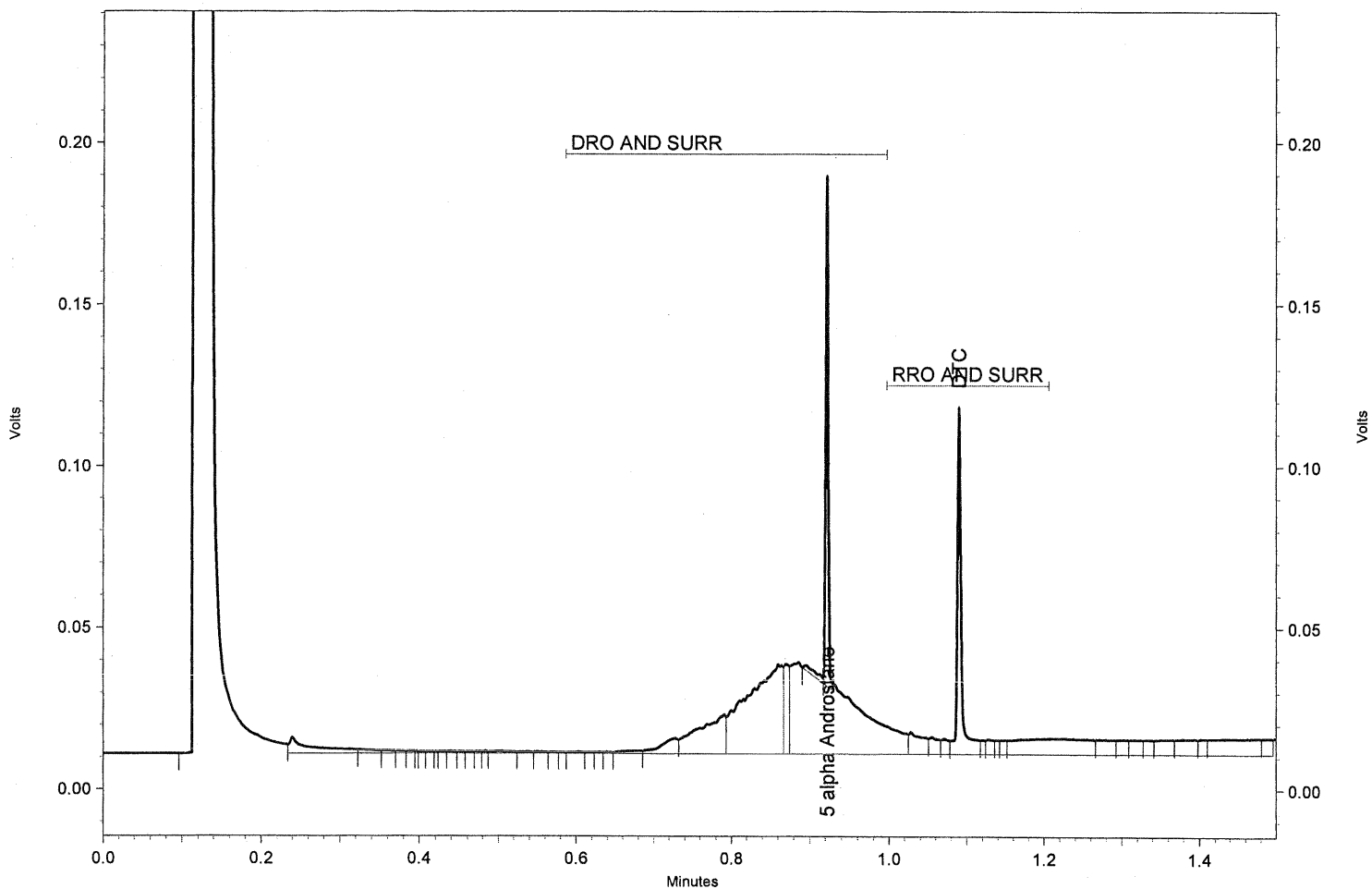
Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.922	39121	92.246	Lx	mg/L
DTC	1.090	34488	81.598	LL	mg/L
DRO		198268	495.293		mg/L
RRO		26272	112.787	LC	mg/L
DRO AND SURR		237389	593.021		mg/L
RRO AND SURR		60760	260.846	LC	mg/L

SGS Environmental Services Inc.

Sample Name: 1064875004 H
 Date/Time: 8/24/2006 1:01:53 PM Analyst: JE Dilution: 1
 Method: E:\Public\2006\08\SA\METHOD\SAF071906ZA.met
 Sample File: E:\Public\2006\08\SA\Data\082406\SAF07190824_021.DAT

DRO/RRO



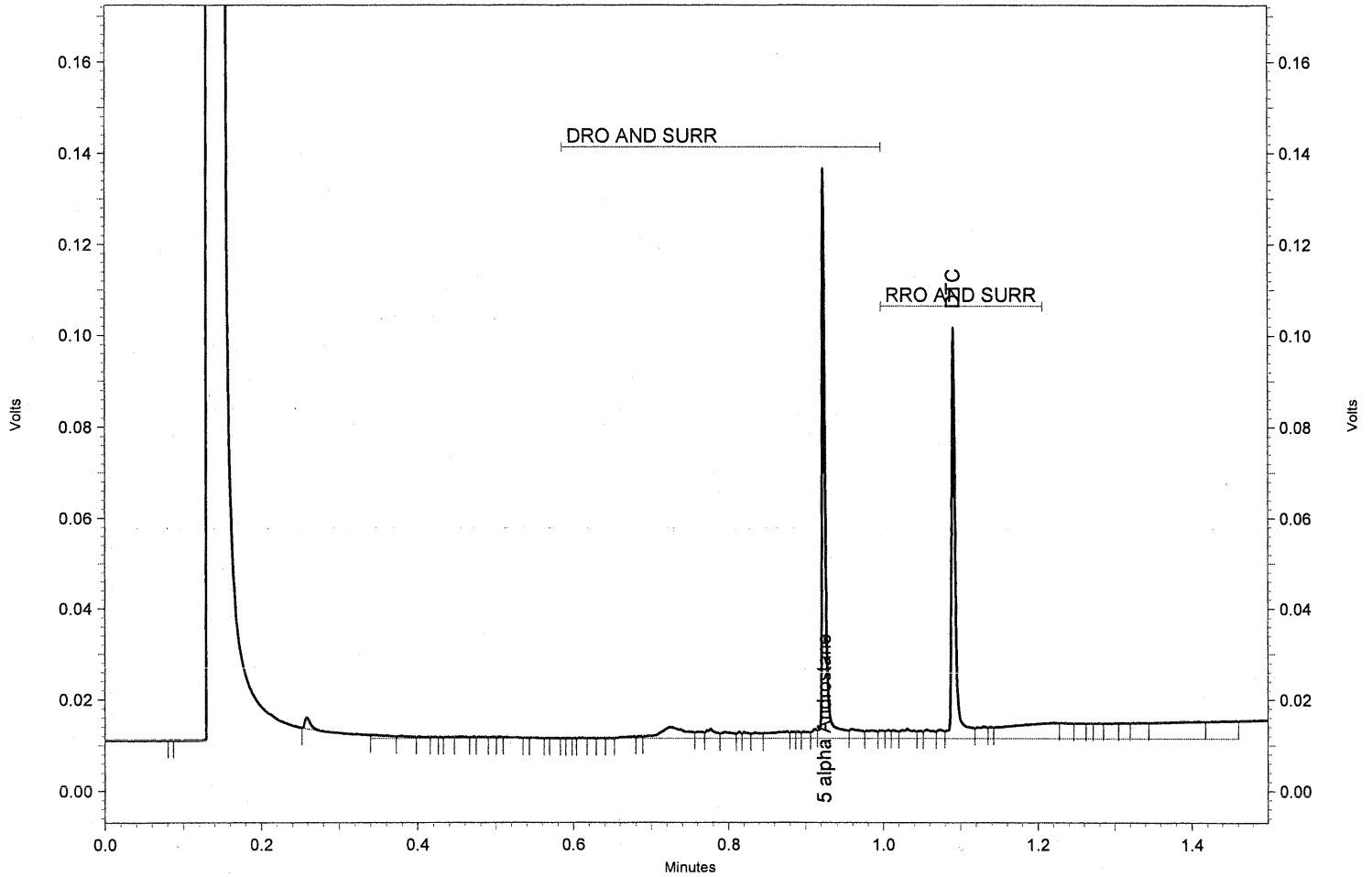
Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.923	33924	79.992	Lf	mg/L
DTC	1.090	39559	93.596	LL	mg/L
DRO		294616	735.980		mg/L
RRO		25616	109.971	LC	mg/L
DRO AND SURR		328540	820.726		mg/L
RRO AND SURR		65175	279.800	LC	mg/L

SGS Environmental Services Inc.

Sample Name: 1064875005 H
 Date/Time: 8/24/2006 1:06:15 PM Analyst: JE Dilution: 1
 Method: E:\Public\2006\08\SA\METHOD\SAF071906ZAZ.met
 Sample File: E:\Public\2006\08\SA\Data\082406\SAF07190824_022.DAT

DRO/RRO



Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.924	36137	85.210	LL	mg/L
DTC	1.091	31205	73.831	LL	mg/L
DRO		23973	59.887	LC	mg/L
RRO		11530	49.499	LC	mg/L
DRO AND SURR		60110	150.161	LC	mg/L
RRO AND SURR		42735	183.464	LC	mg/L

SGS Environmental Services Inc.

Sample Name: CCVB

Date/Time: 8/24/2006 1:10:40 PM

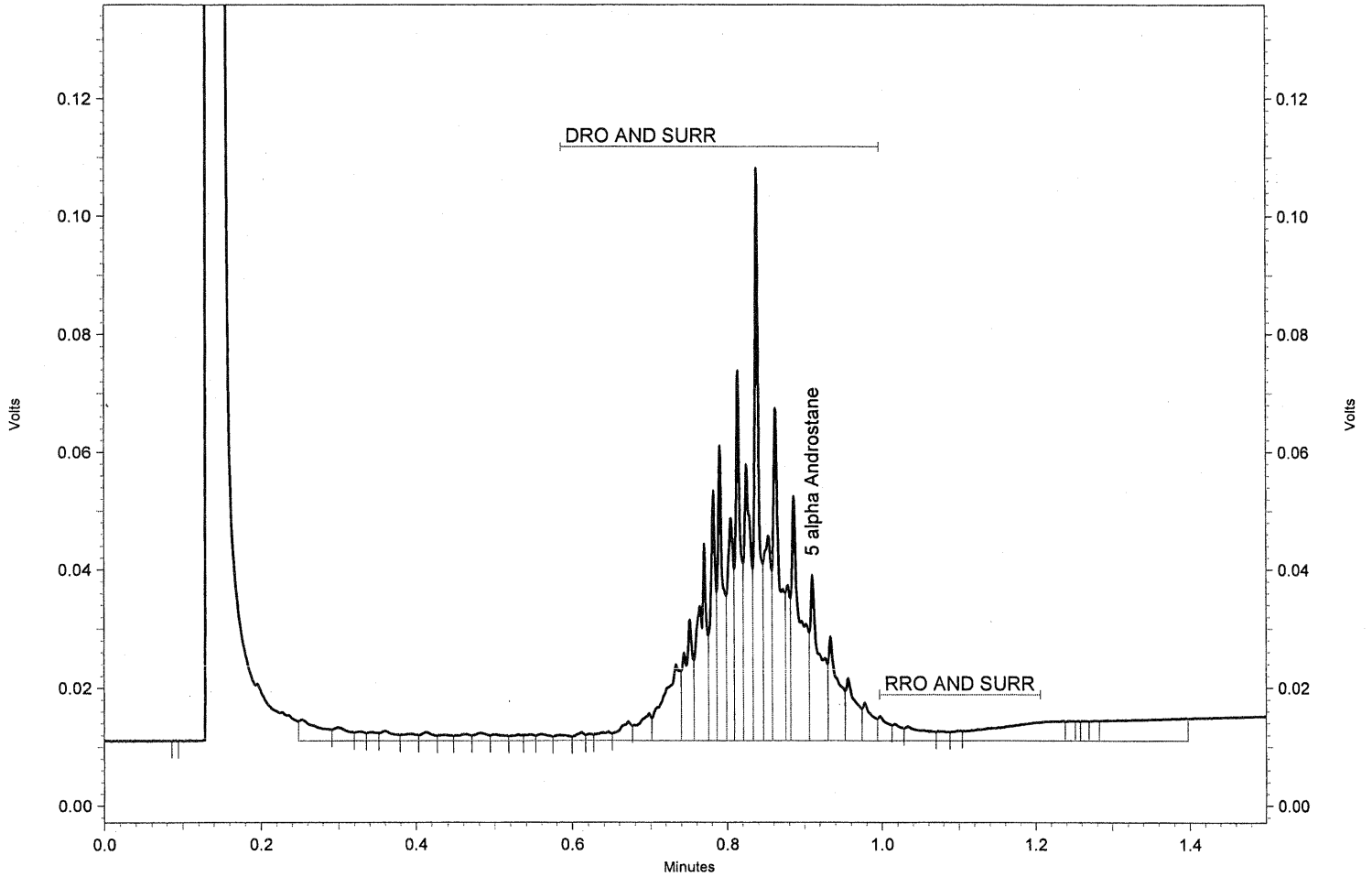
Analyst: JE

Dilution: 1

Method: E:\Public\2006\08\SA\METHOD\SAF071906ZA.met

Sample File: E:\Public\2006\08\SA\Data\082406\SAF07190824_023.DAT

DRO/RRO



Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.911	24826	58.539	LL	mg/L
DRO		363661	908.461		mg/L
RRO		13709	58.853 LC		mg/L
DRO AND SURRE		388487	970.479		mg/L
RRO AND SURRE		13709	58.853 LC		mg/L

SGS Environmental Services Inc.

Sample Name: CCVR

Date/Time: 8/24/2006 1:14:45 PM

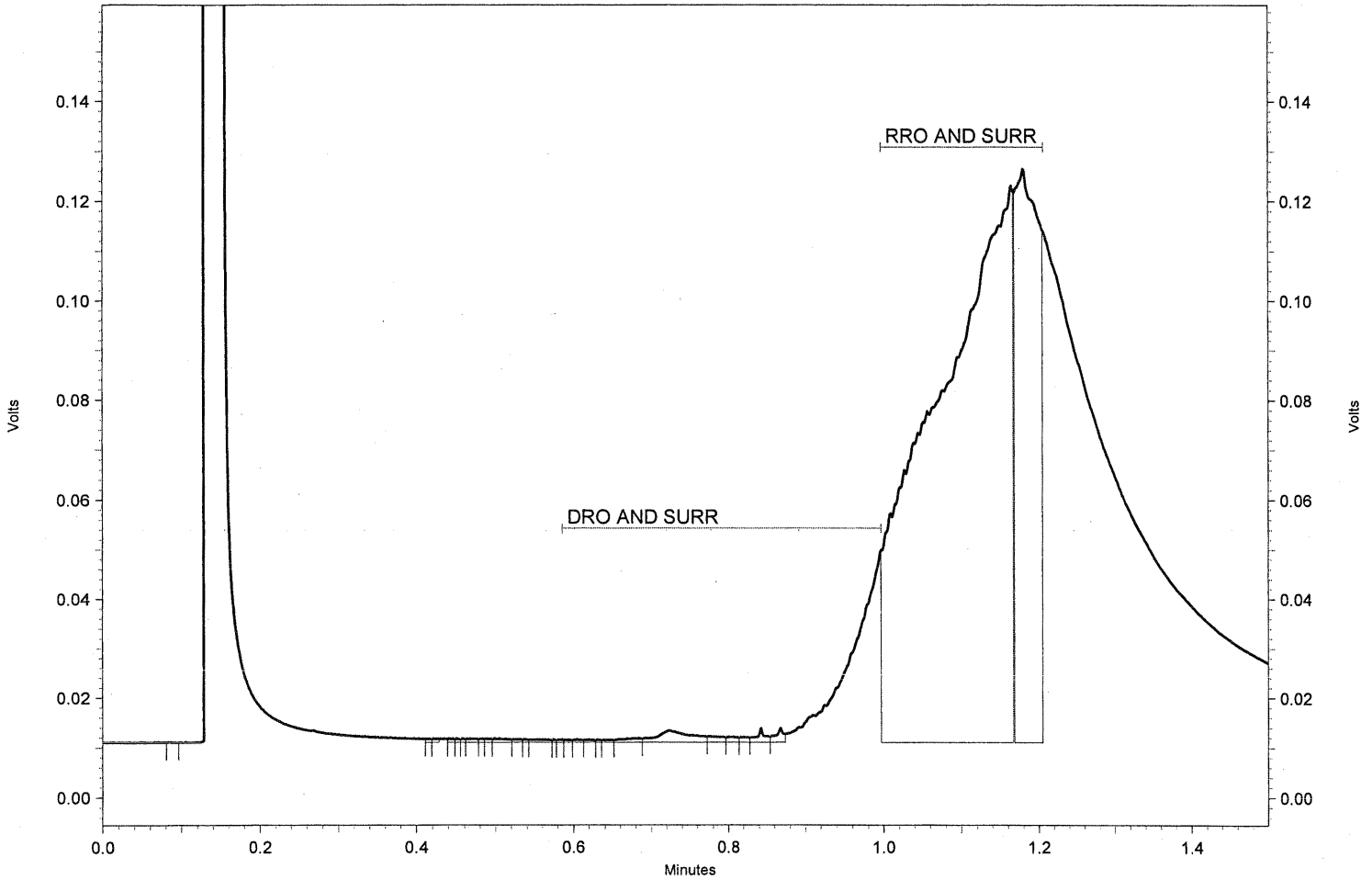
Analyst: JE

Dilution: 1

Method: E:\Public\2006\08\SA\METHOD\SAF071906ZA.met

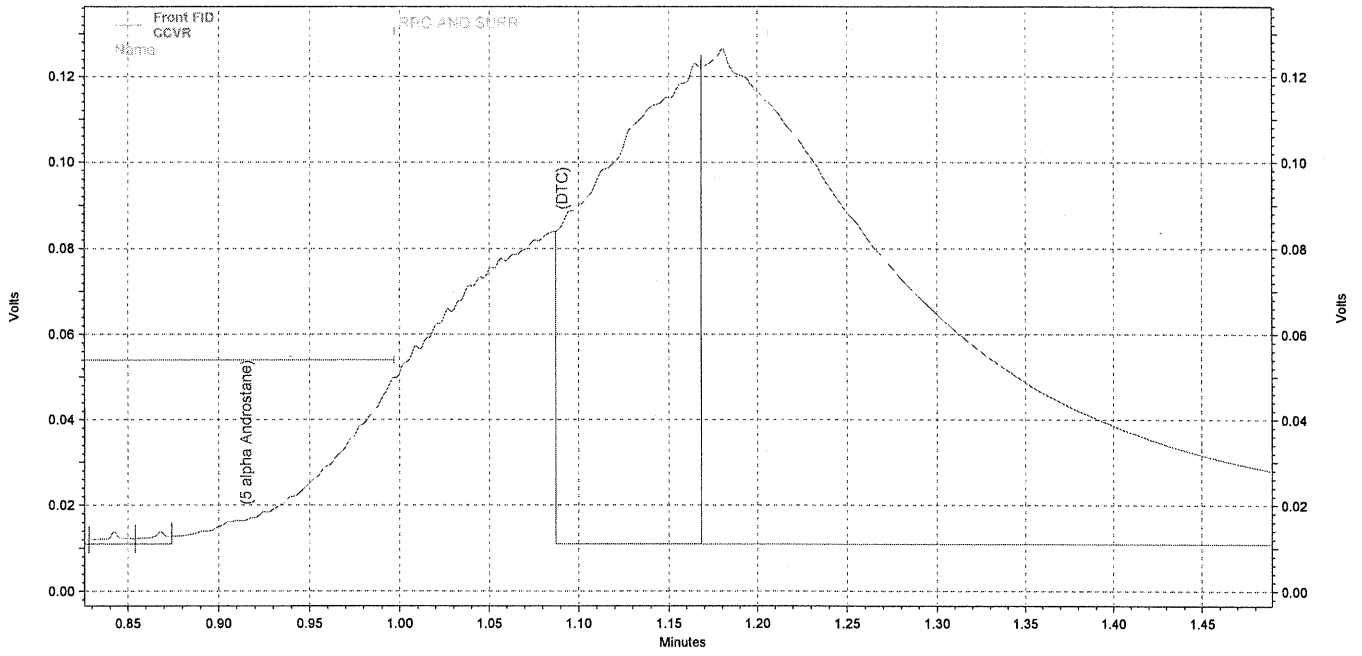
Sample File: E:\Public\2006\08\SA\Data\082406\SAF07190824_024.DAT

DRO/RRO



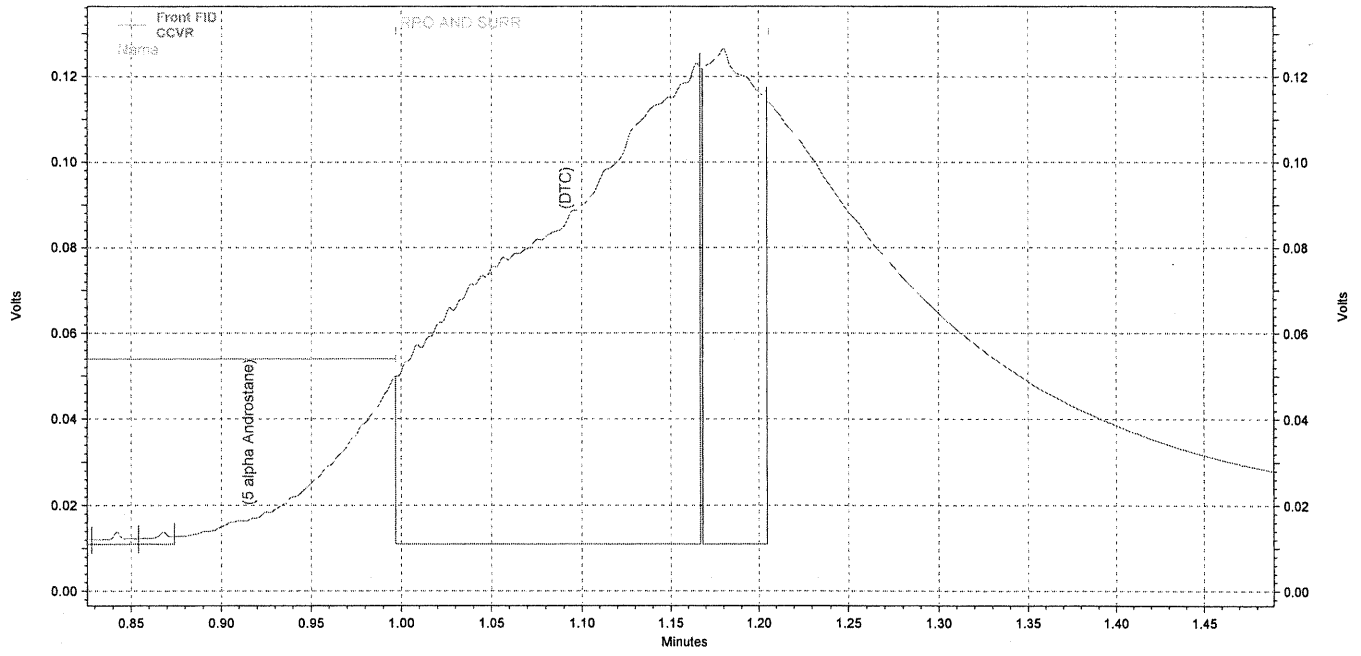
Front FID Results

Name	R.T.	Area	Amount	IC	Units
DRO		18381	45.918 LC		mg/L
RRO		1005746	4317.720		mg/L
DRO AND SURRE		18381	45.918 LC		mg/L
RRO AND SURRE		1005746	4317.720		mg/L



E:\Public\2006\08\SA\Data\082406\SAF07190824_024.DAT, Front FID

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for 8/24/06*



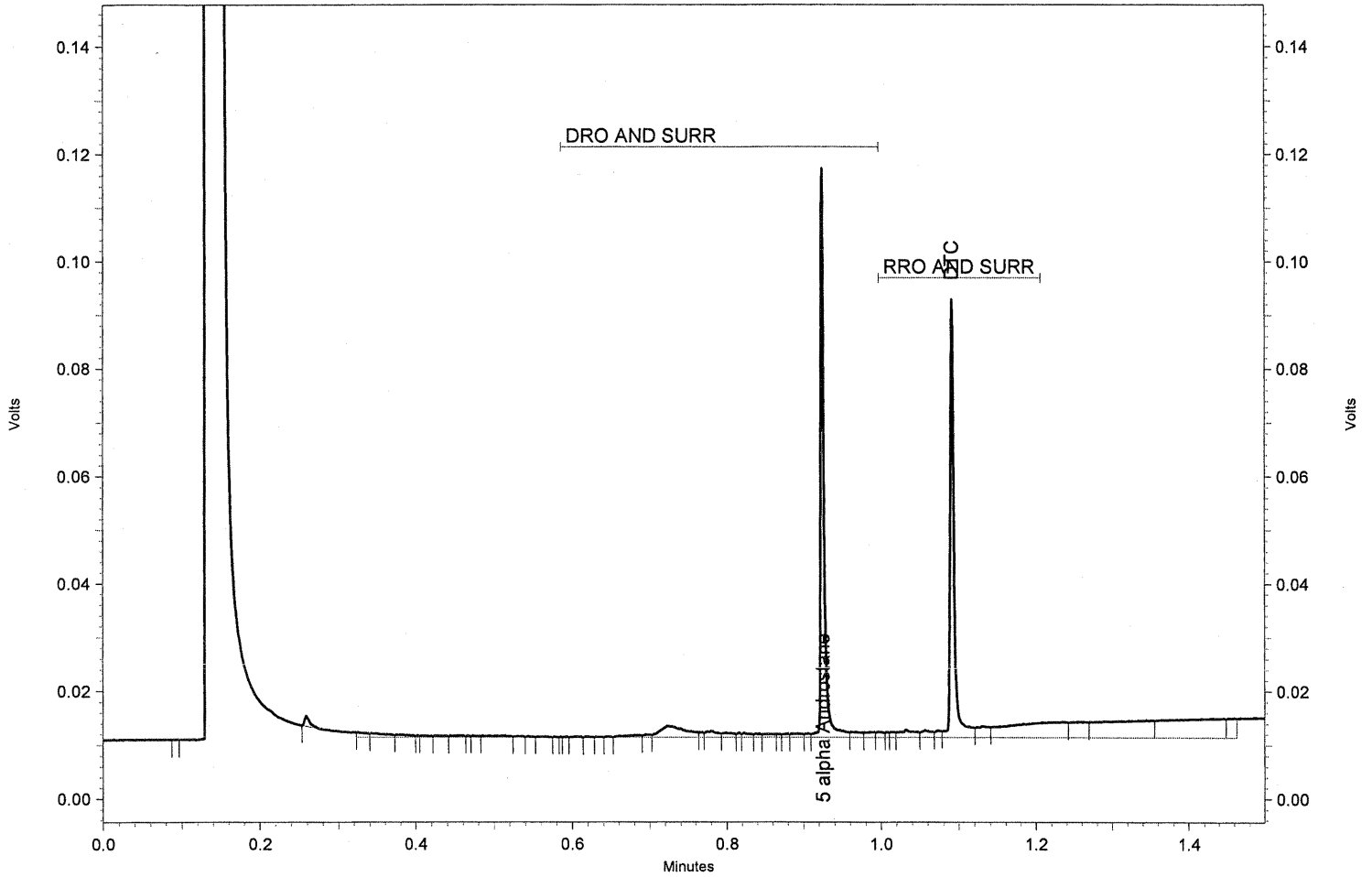
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*after
for 8/24/06*

SGS Environmental Services Inc.

Sample Name: 1064875006 H
 Date/Time: 8/24/2006 1:27:03 PM Analyst: JE Dilution: 1
 Method: E:\Public\2006\08\SA\METHOD\SAF071906ZAZ.met
 Sample File: E:\Public\2006\08\SA\Data\082406\SAF07190824_027.DAT

DRO/RRO



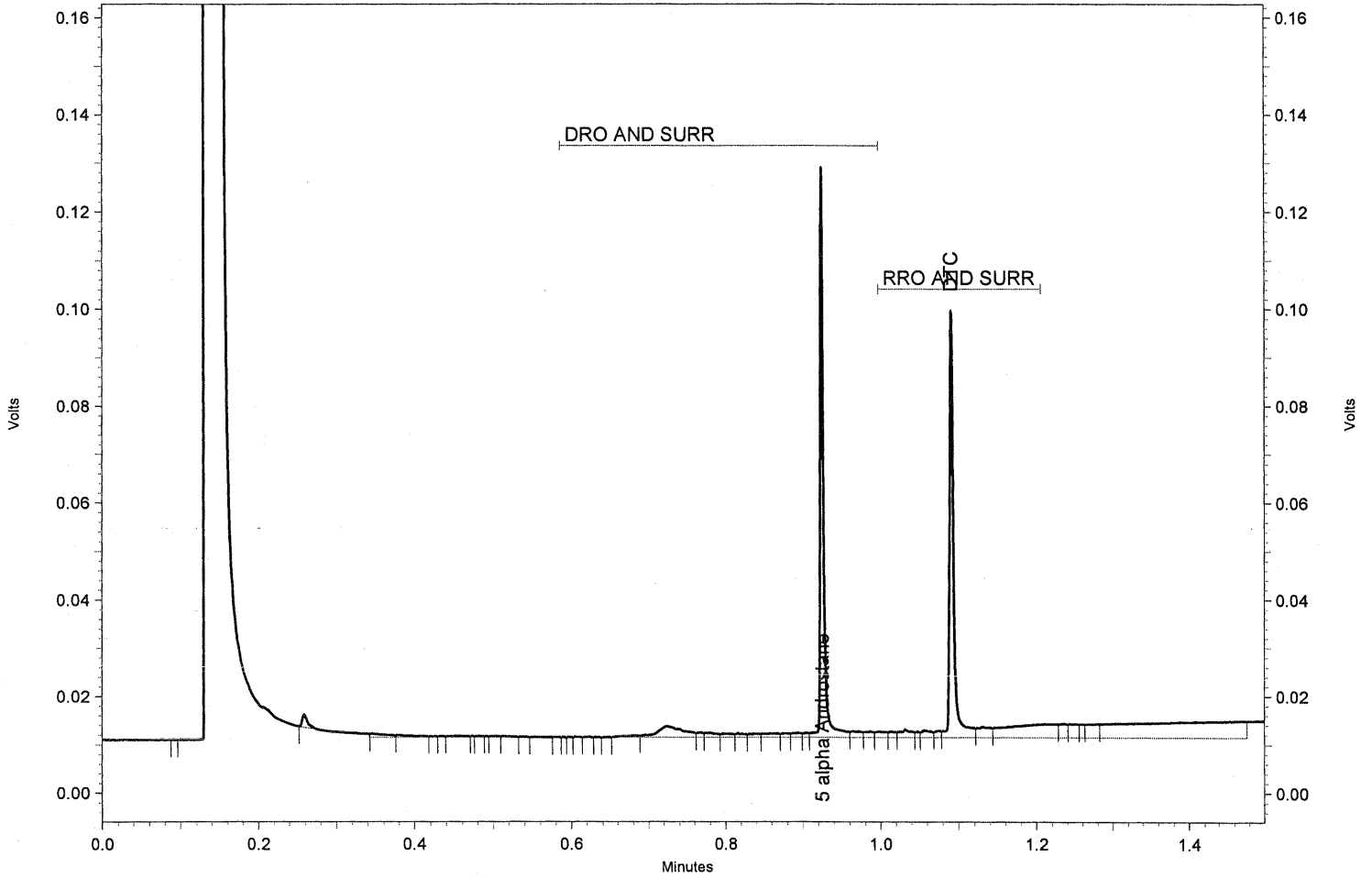
Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.925	32240	76.021	LL	mg/L
DTC	1.091	29107	68.867	LL	mg/L
DRO		14363	35.880	LC	mg/L
RRO		6964	29.897	LC	mg/L
DRO AND SURRE		46603	116.419	LC	mg/L
RRO AND SURRE		36071	154.855	LC	mg/L

SGS Environmental Services Inc.

Sample Name: 1064875007 H
 Date/Time: 8/24/2006 1:31:28 PM Analyst: JE Dilution: 1
 Method: E:\Public\2006\08\SA\METHOD\SAF071906ZAZ.met
 Sample File: E:\Public\2006\08\SA\Data\082406\SAF07190824_028.DAT

DRO/RRO



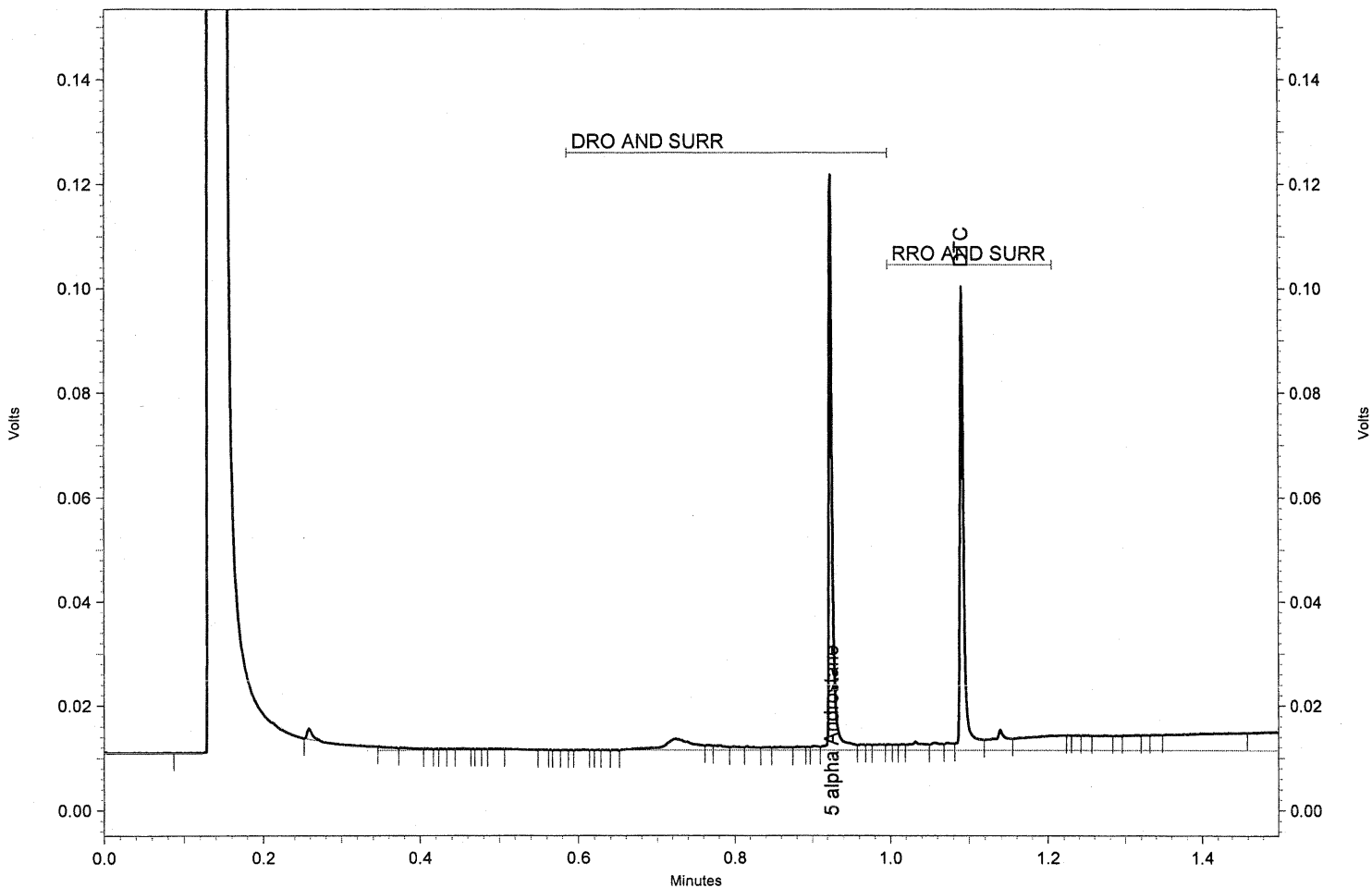
Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.925	35227	83.064	LL	mg/L
DTC	1.091	31514	74.562	LL	mg/L
DRO		15279	38.168	LC	mg/L
RRO		9064	38.912	LC	mg/L
DRO AND SURRE		50506	126.169	LC	mg/L
RRO AND SURRE		40578	174.203	LC	mg/L

SGS Environmental Services Inc.

Sample Name: 1064875008 H
 Date/Time: 8/24/2006 1:35:36 PM Analyst: JE Dilution: 1
 Method: E:\Public\2006\08\SA\METHOD\SAF071906ZAZ.met
 Sample File: E:\Public\2006\08\SA\Data\082406\SAF07190824_029.DAT

DRO/RRO



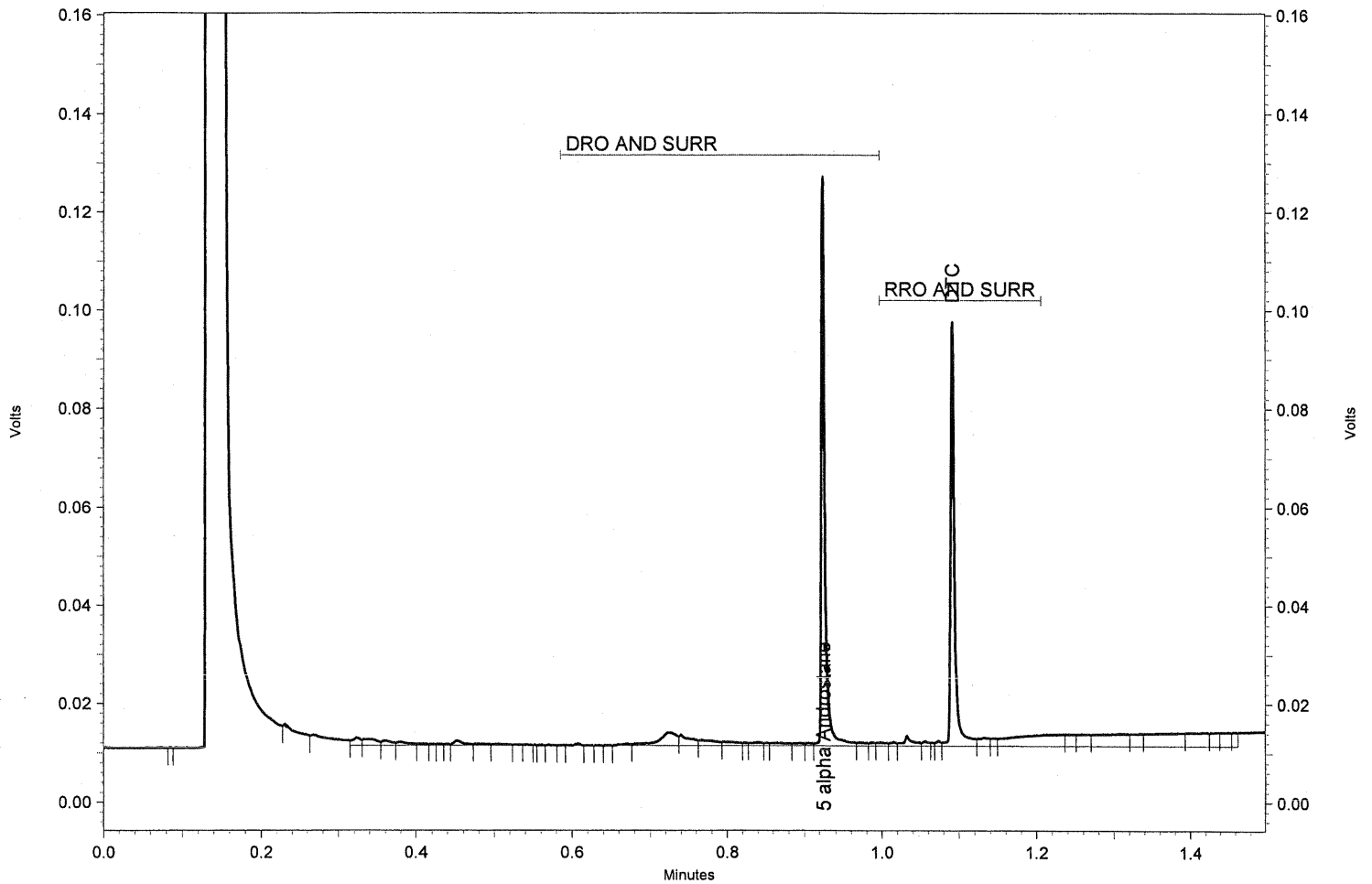
Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.925	33434	78.836	LL	mg/L
DTC	1.091	30888	73.081	LL	mg/L
DRO		14029	35.046	LC	mg/L
RRO		11524	49.473	LC	mg/L
DRO AND SURR		47463	118.567	LC	mg/L
RRO AND SURR		42412	182.077	LC	mg/L

SGS Environmental Services Inc.

Sample Name: 722411 MB 17173
 Date/Time: 8/24/2006 2:28:58 PM Analyst: JE Dilution: 1
 Method: E:\Public\2006\08\SA\METHOD\SAF071906ZAZ.met
 Sample File: E:\Public\2006\08\SA\Data\082406\SAF07190824_035.DAT

DRO/RRO



Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.925	35939	84.743	LL	mg/L
DTC	1.092	31064	73.497	LL	mg/L
DRO		14577	36.415	LC	mg/L
RRO		5891	25.290	LC	mg/L
DRO AND SURRE		50516	126.194	LC	mg/L
RRO AND SURRE		36955	158.650	LC	mg/L

SGS Environmental Services Inc.

Sample Name: 722412 LCS 17173

Date/Time: 8/24/2006 2:33:19 PM

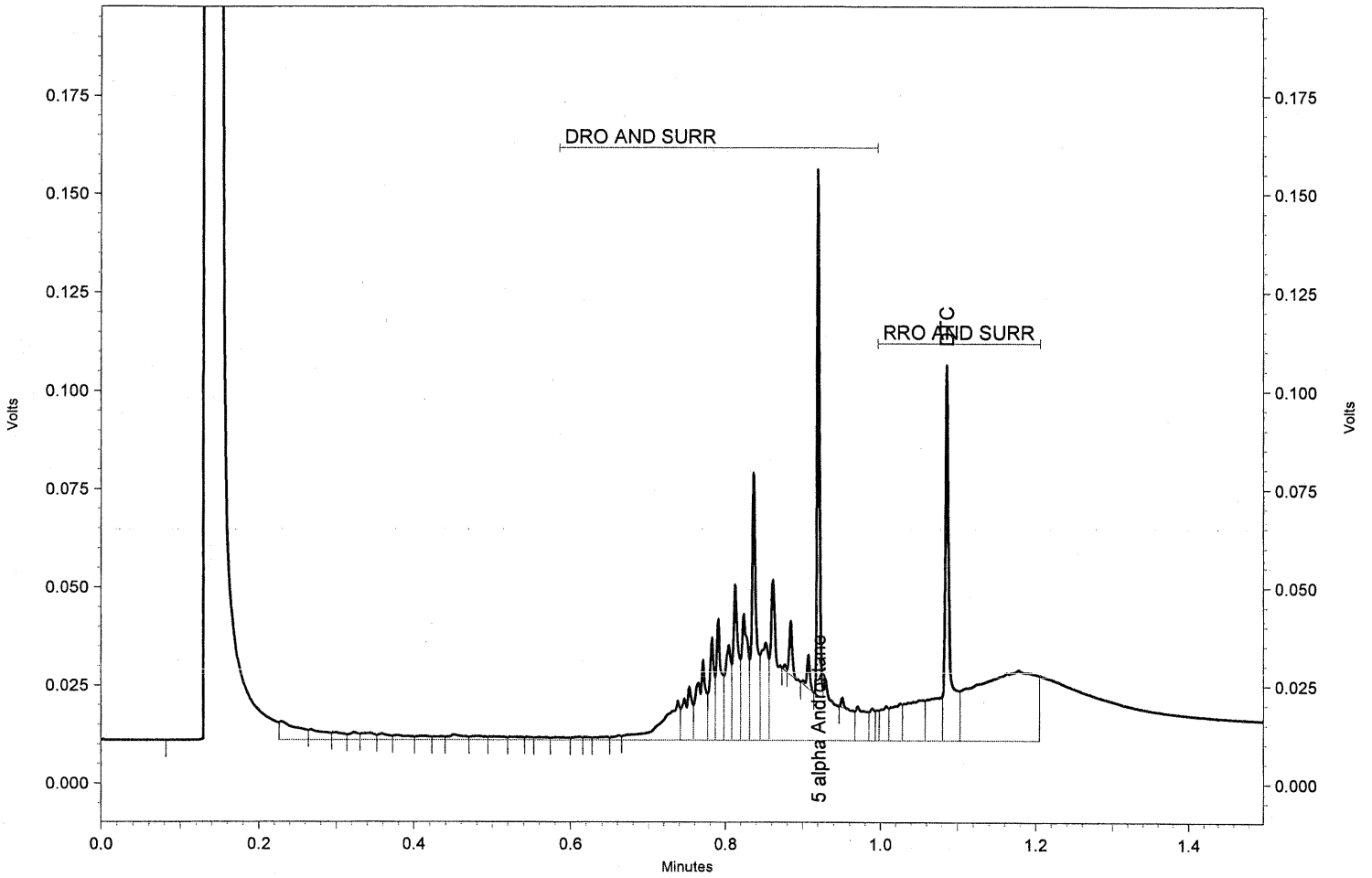
Analyst: JE

Dilution: 1

Method: E:\Public\2006\08\SA\METHOD\SAF071906ZA.met

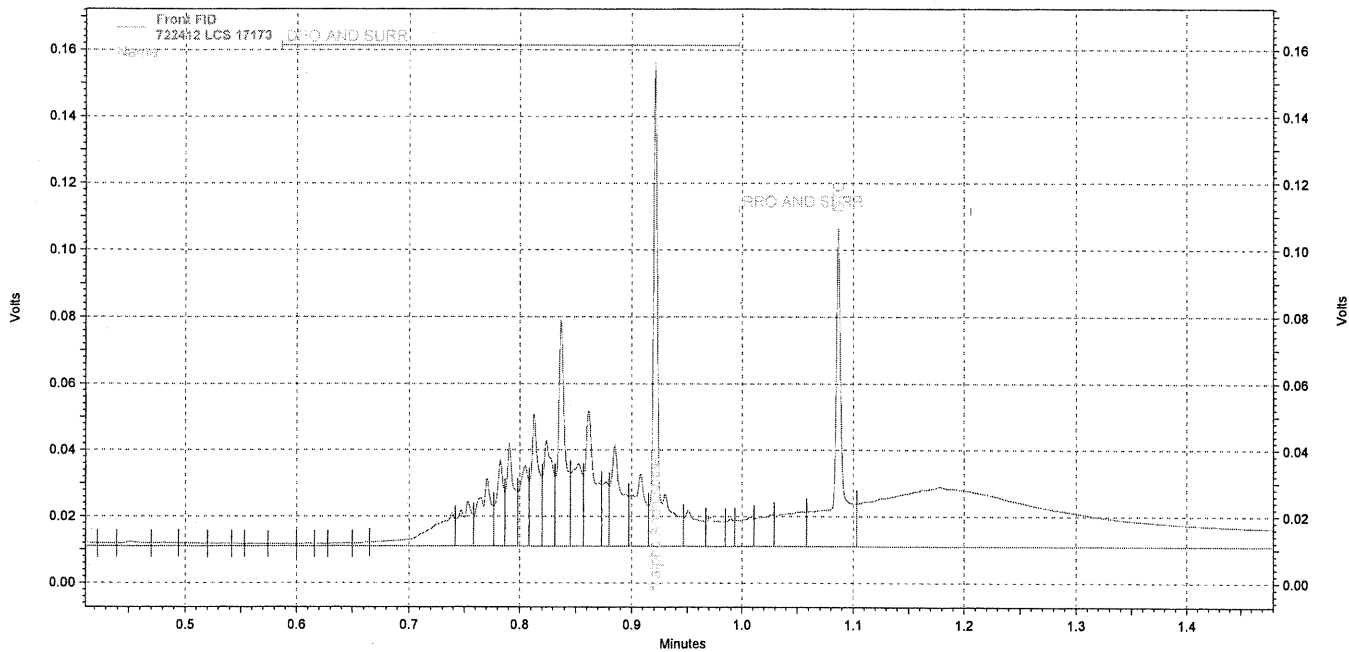
Sample File: E:\Public\2006\08\SA\Data\082406\SAF07190824_036.DAT

DRO/RRO



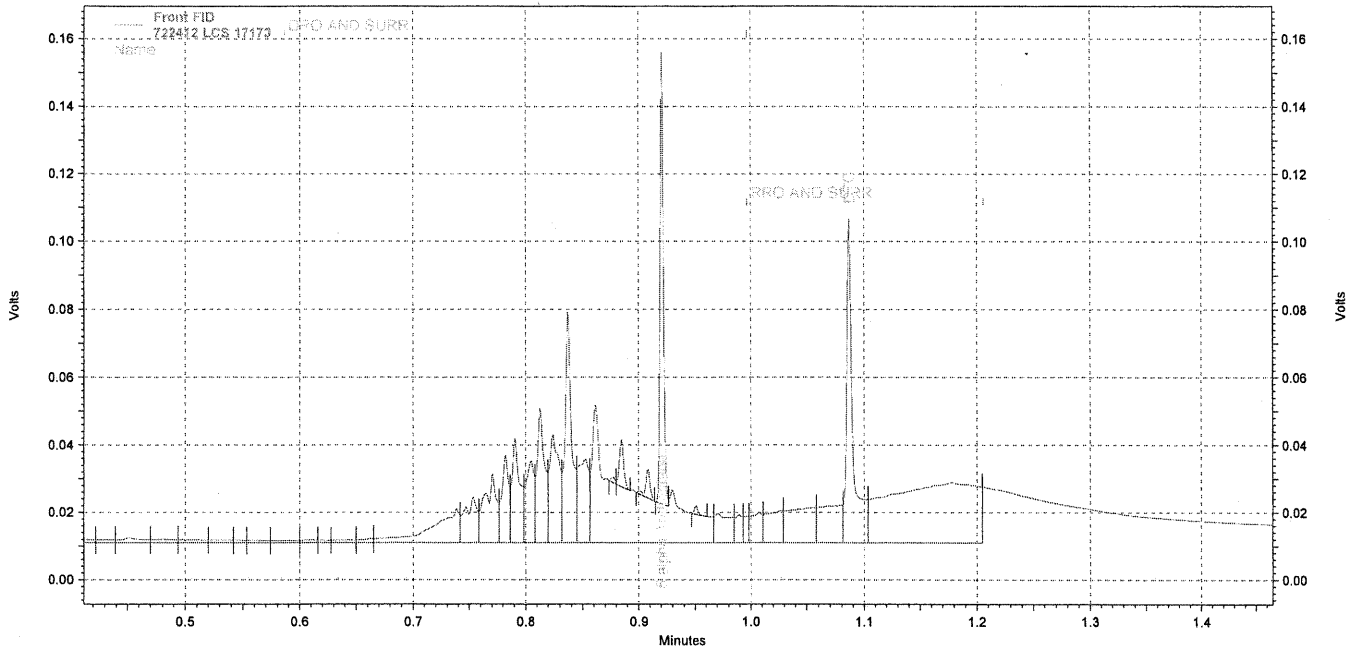
Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.921	28973	68.317	Lf	mg/L
DTC	1.087	38597	91.320	xL	mg/L
DRO		281944	704.324		mg/L
RRO		144354	619.719		mg/L
DRO AND SURRE		310917	776.702		mg/L
RRO AND SURRE		182951	785.418		mg/L



E:\Public\2006\08\SA\Data\082406\SAF07190824_036.DAT, Front FID

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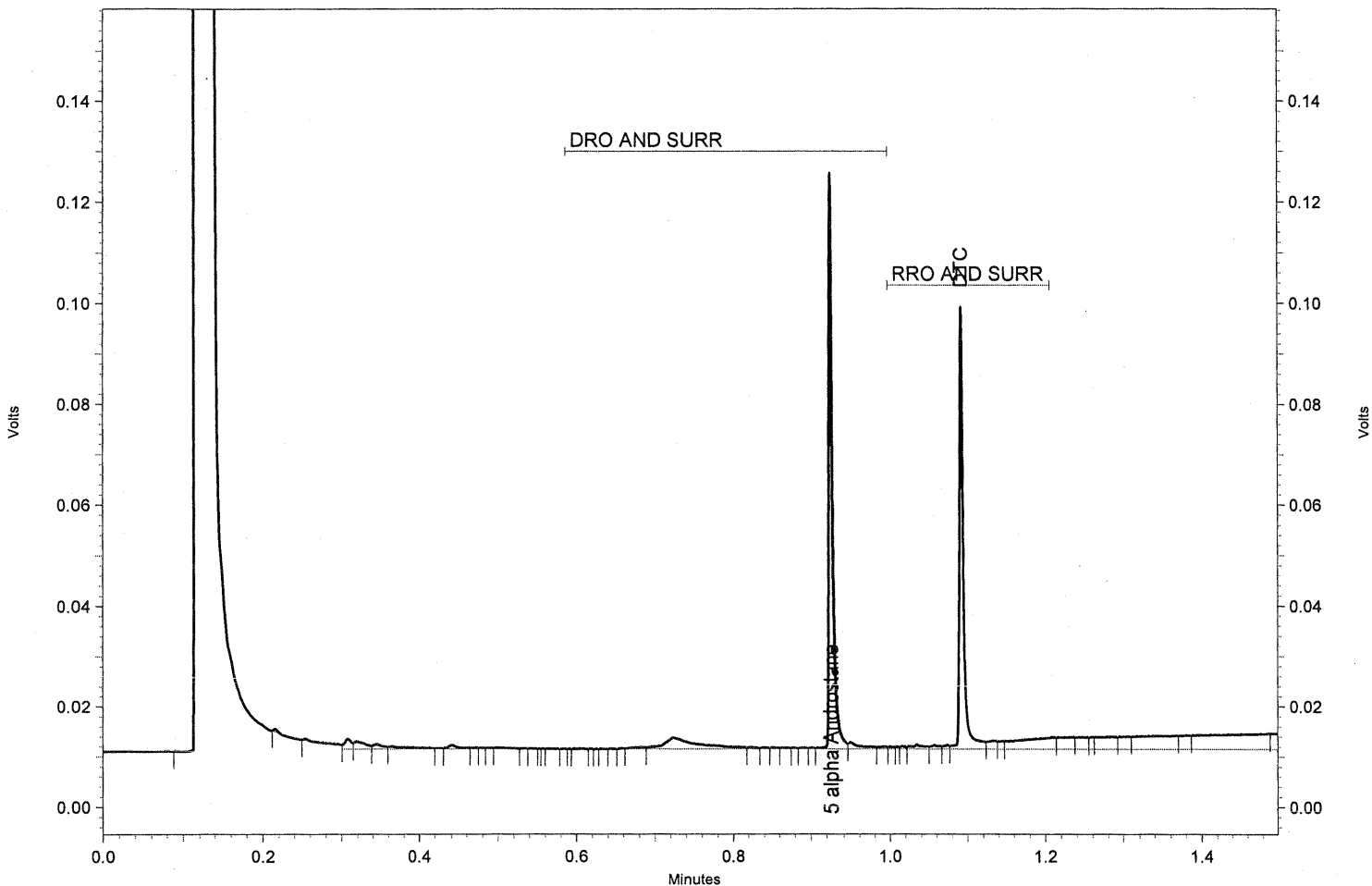
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*offer
K 8/24/06*

SGS Environmental Services Inc.

Sample Name: 722079 MB 17168
 Date/Time: 8/24/2006 2:41:38 PM Analyst: JE Dilution: 1
 Method: E:\Public\2006\08\SA\METHOD\SAF071906ZAZ.met
 Sample File: E:\Public\2006\08\SA\Data\082406\SAF07190824_038.DAT

DRO/RRO



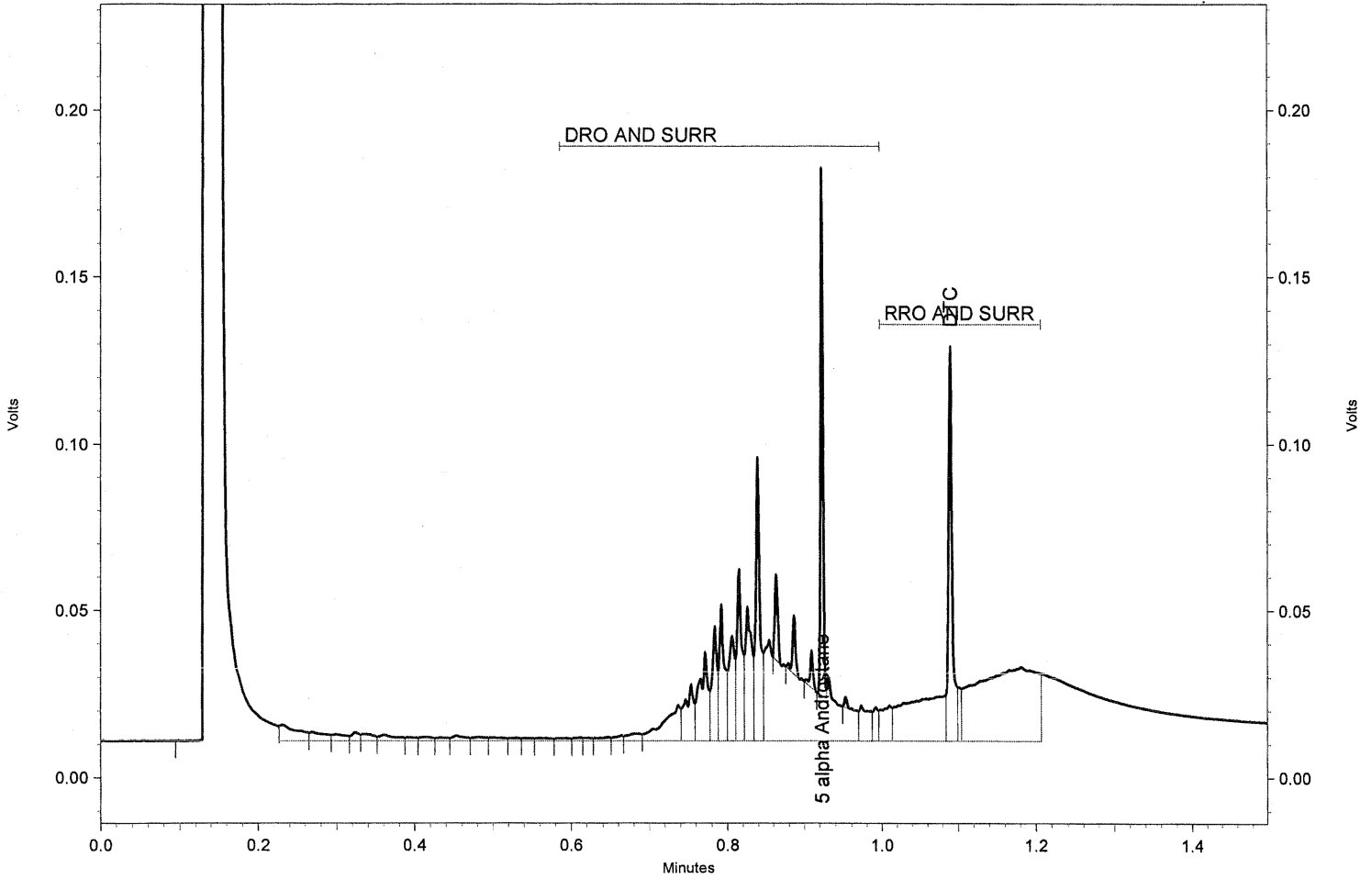
Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.925	34190	80.619	LL	mg/L
DTC	1.092	31438	74.382	LL	mg/L
DRO		10999	27.477	LC	mg/L
RRO		5005	21.487	LC	mg/L
DRO AND SURRE		45189	112.887	LC	mg/L
RRO AND SURRE		36443	156.452	LC	mg/L

SGS Environmental Services Inc.

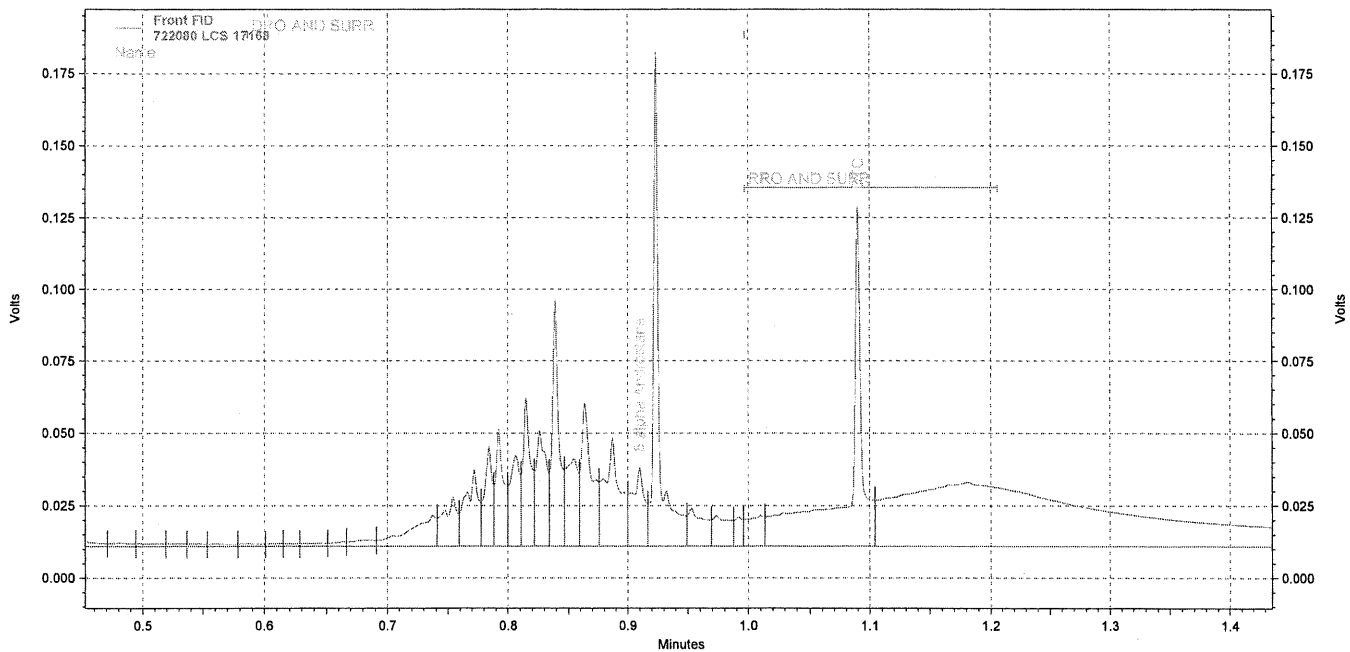
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 Date/Time: 8/24/2006 2:45:40 PM Analyst: JE Dilution: 1
 Method: E:\Public\2006\08\SA\METHOD\SAF071906ZA.met
 Sample File: E:\Public\2006\08\SA\Data\082406\SAF07190824_039.DAT

DRO/RRO



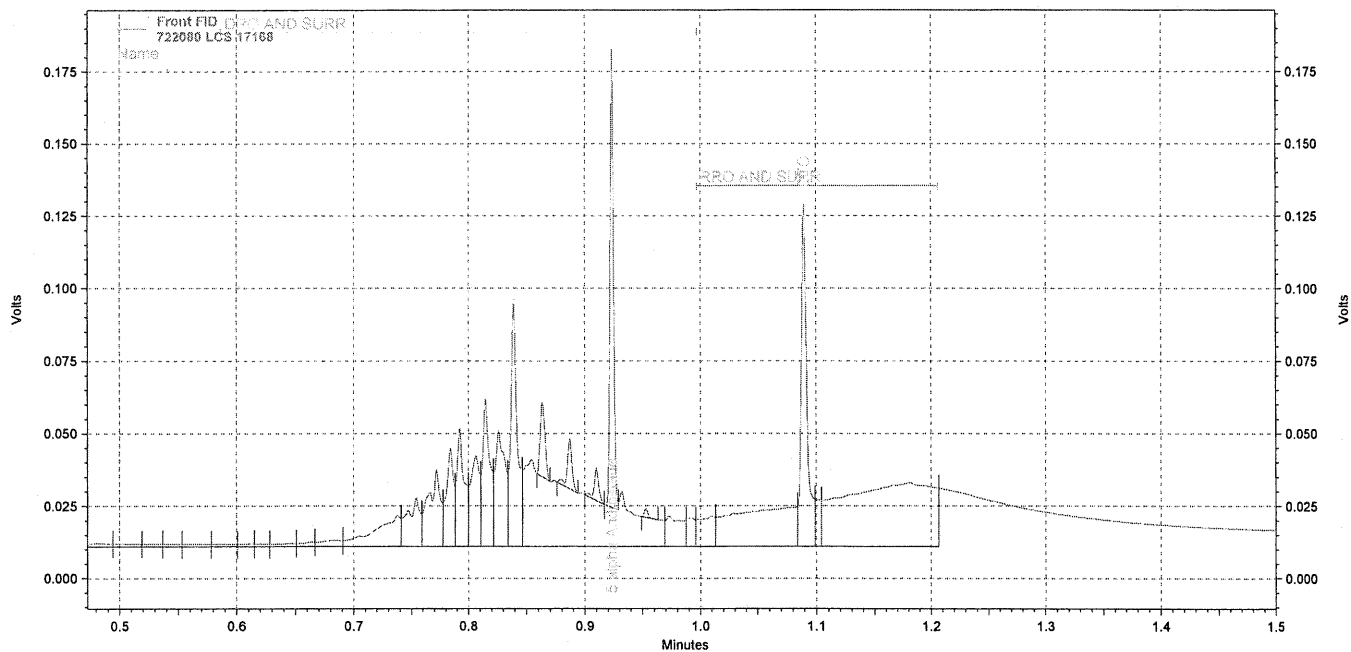
Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.923	34305	80.890	Lf	mg/L
DTC	1.090	40313	95.380	xx	mg/L
DRO		344176	859.786		mg/L
RRO		184907	793.815		mg/L
DRO AND SURRE		378481	945.483		mg/L
RRO AND SURRE		225220	966.881		mg/L



E:\Public\2006\08\SA\Data\082406\SAF07190824_039.DAT, Front FID

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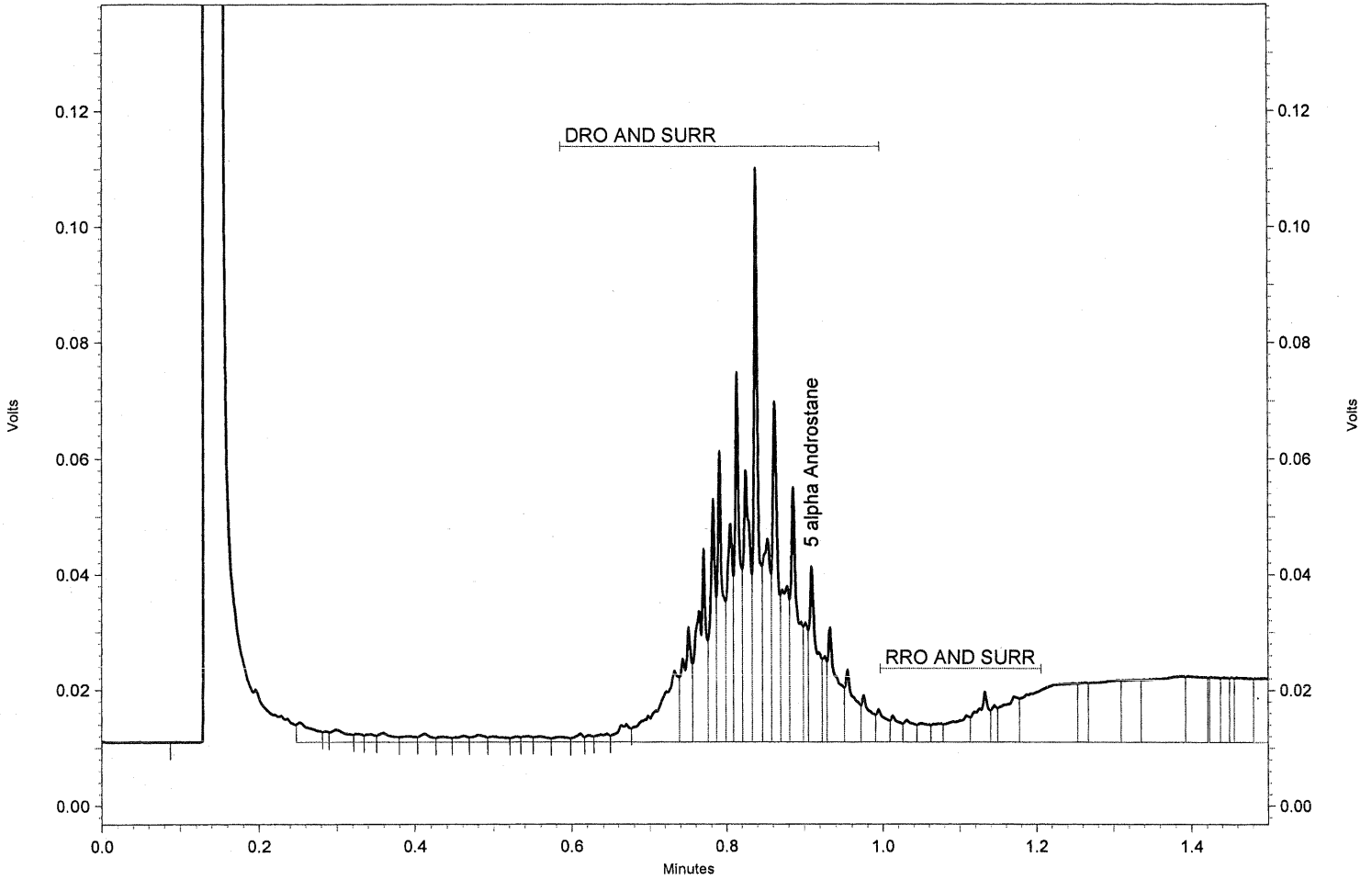
E:\Public\2006\08\SA\Data\082406\SAF07190824_039.DAT, Front FID

after
for 8/24/06

SGS Environmental Services Inc.

Sample Name: CCVB
 Date/Time: 8/24/2006 4:05:56 PM Analyst: JE Dilution: 1
 Method: E:\Public\2006\08\SA\METHOD\SAF071906ZA.met
 Sample File: E:\Public\2006\08\SA\Data\082406\SAF07190824_045.DAT

DRO/RRO



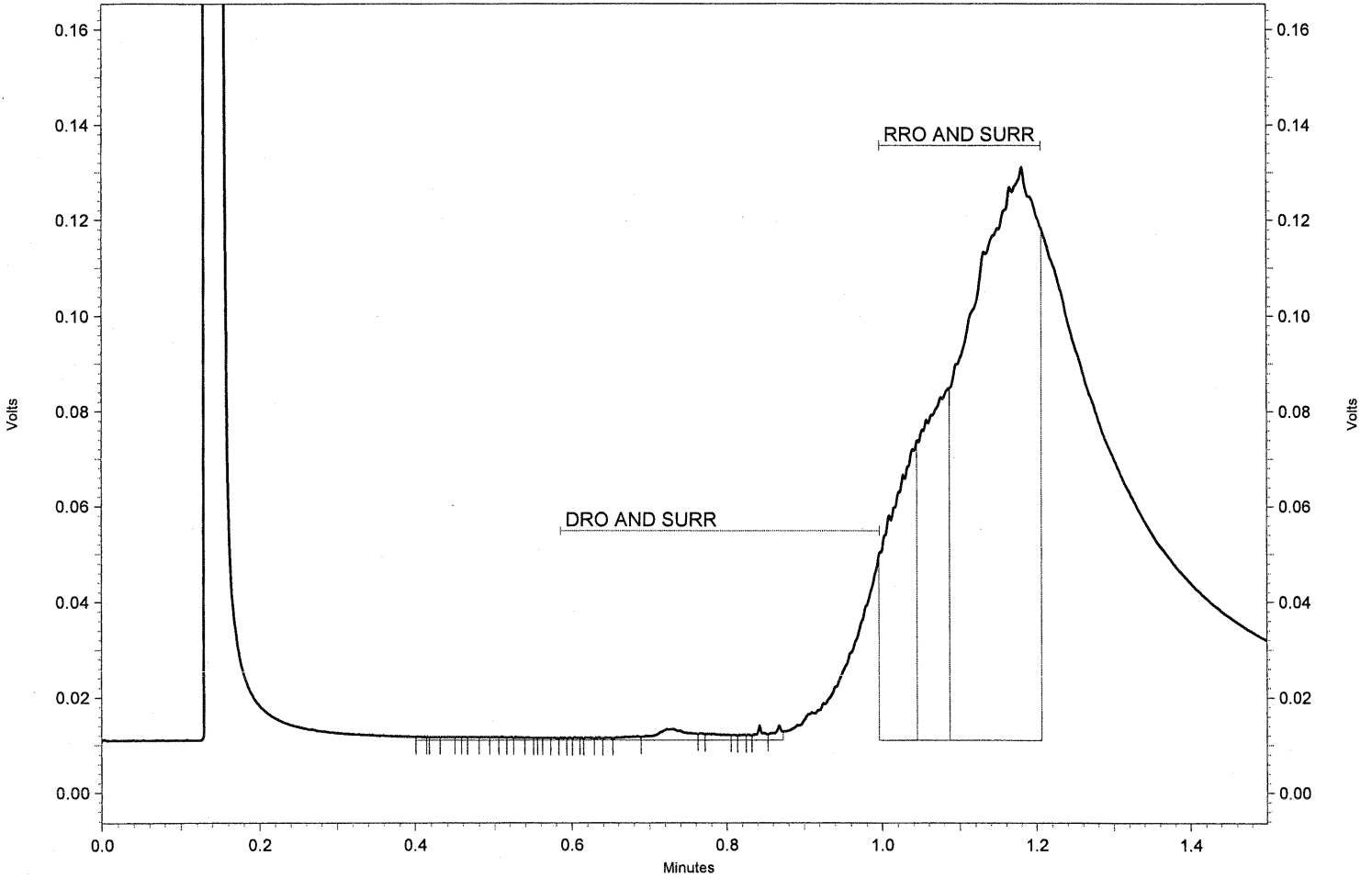
Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.910	20471	48.270	LL	mg/L
DRO		377697	943.525		mg/L
RRO		45724	196.295 LC		mg/L
DRO AND SURRE		398168	994.663		mg/L
RRO AND SURRE		45724	196.295 LC		mg/L

SGS Environmental Services Inc.

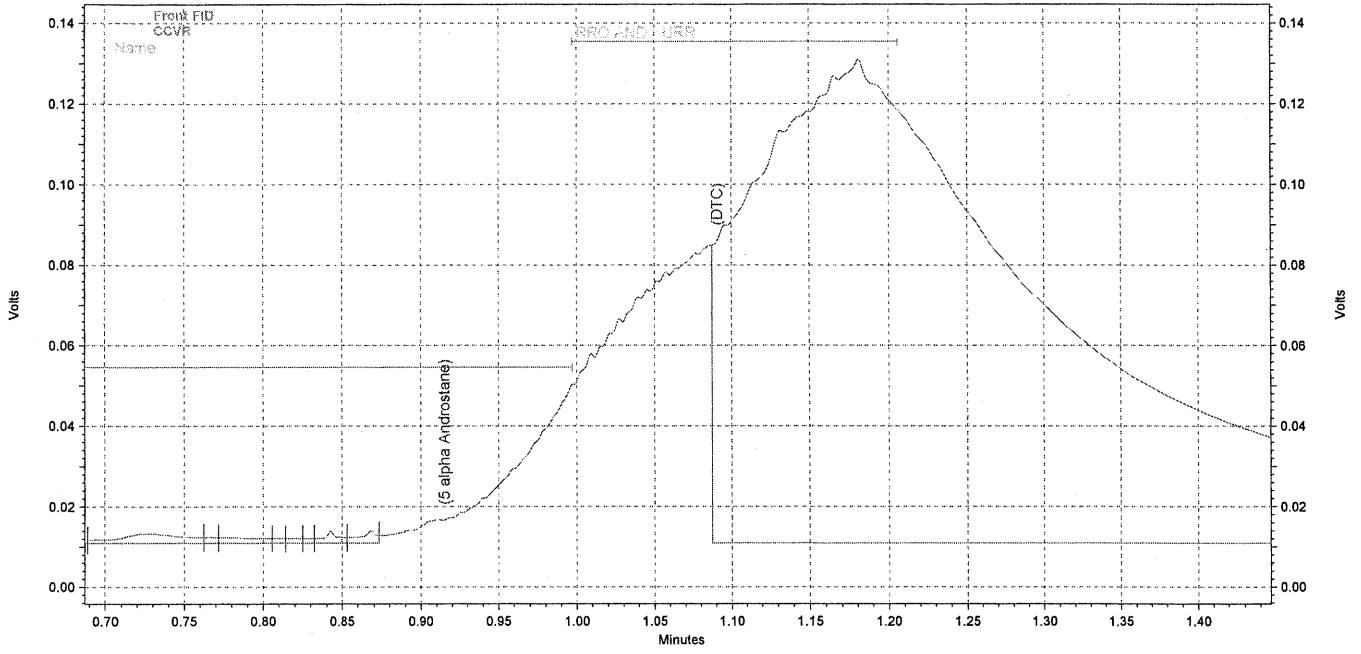
Sample Name: CCVR
 Date/Time: 8/24/2006 4:10:03 PM Analyst: JE Dilution: 1
 Method: E:\Public\2006\08\SA\METHOD\SAF071906ZA.met
 Sample File: E:\Public\2006\08\SA\Data\082406\SAF07190824_046.DAT

DRO/RRO



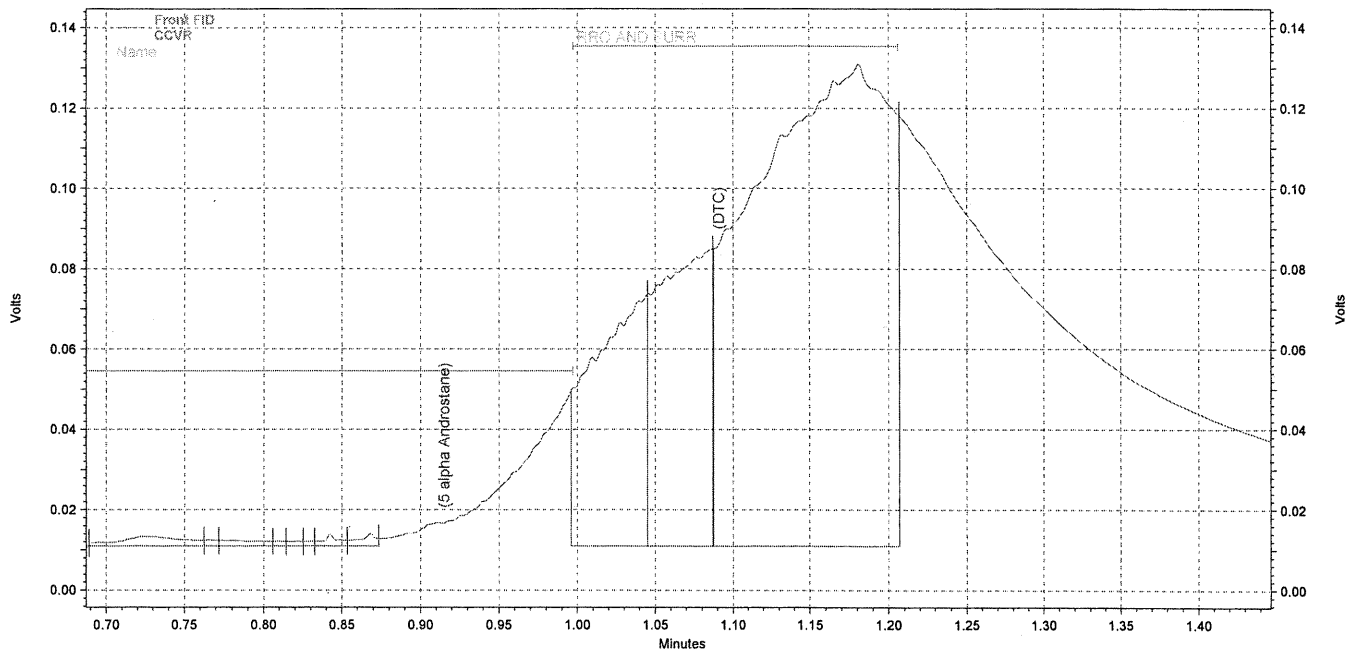
Front FID Results

Name	R.T.	Area	Amount	IC	Units
DRO		19352	48.343 LC		mg/L
RRO		1049610	4506.030		mg/L
DRO AND Surr		19352	48.343 LC		mg/L
RRO AND Surr		1049610	4506.030		mg/L



E:\Public\2006\08\SA\Data\082406\SAF07190824_046.DAT, Front FID

*before
je 8/24/06*



E:\Public\2006\08\SA\Data\082406\SAF07190824_046.DAT, Front FID

*after
je alzylos*

SGS Environmental Services Inc.

Sample Name: CCVB

Date/Time: 8/24/2006 4:52:20 PM

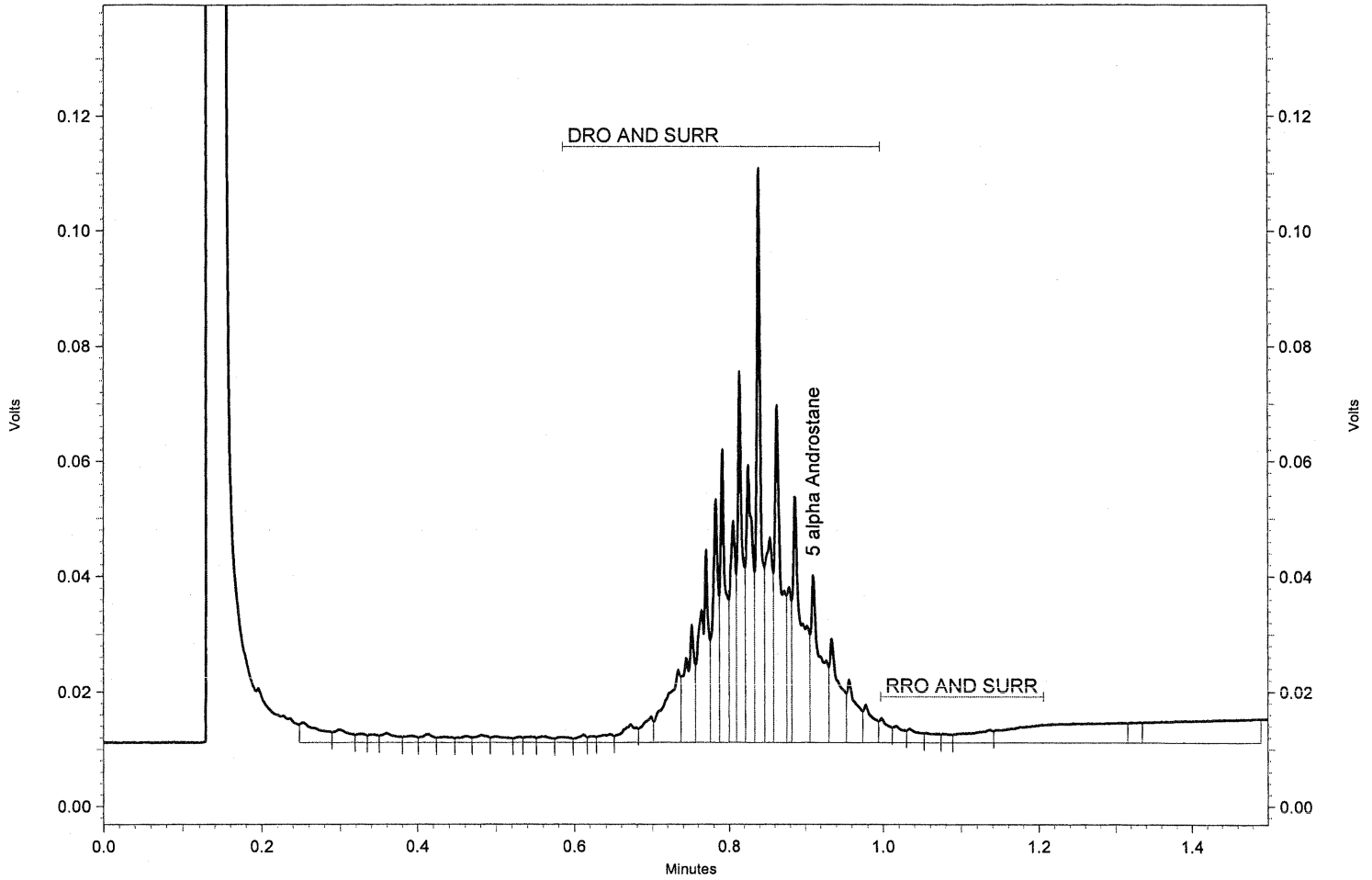
Analyst: JE

Dilution: 1

Method: E:\Public\2006\08\SA\METHOD\SAF071906ZA.met

Sample File: E:\Public\2006\08\SA\Data\082406\SAF07190824_056.DAT

DRO/RRO



Front FID Results

Name	R.T.	Area	Amount	IC	Units
5 alpha Androstane	0.911	25610	60.387	LL	mg/L
DRO		368916	921.589		mg/L
RRO		17860	76.674 LC		mg/L
DRO AND SURR		394526	985.565		mg/L
RRO AND SURR		17860	76.674 LC		mg/L

SGS Environmental Services Inc.

Sample Name: CCVR

Date/Time: 8/24/2006 4:56:25 PM

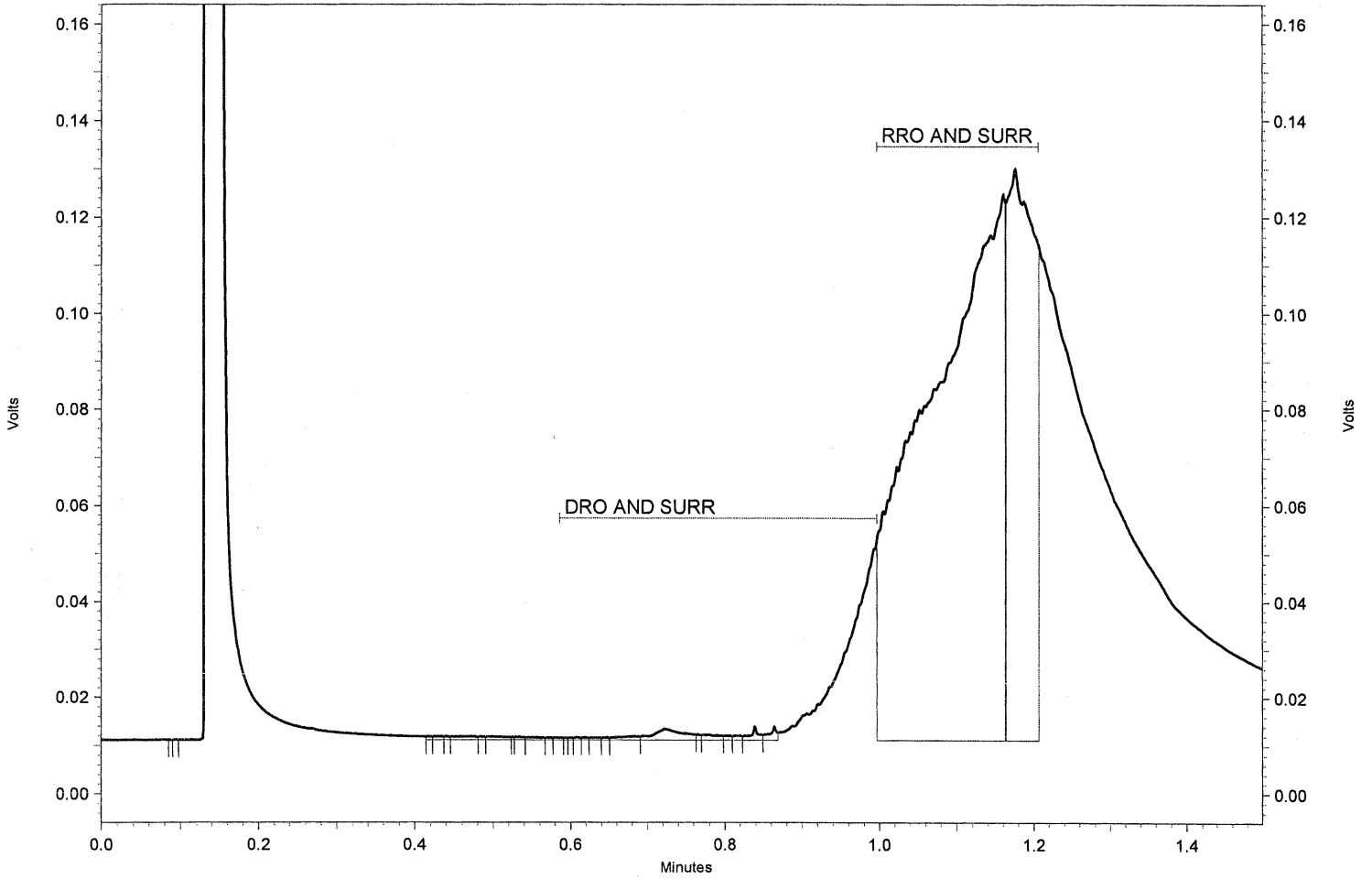
Analyst: JE

Dilution: 1

Method: E:\Public\2006\08\SA\METHOD\SAF071906ZA.met

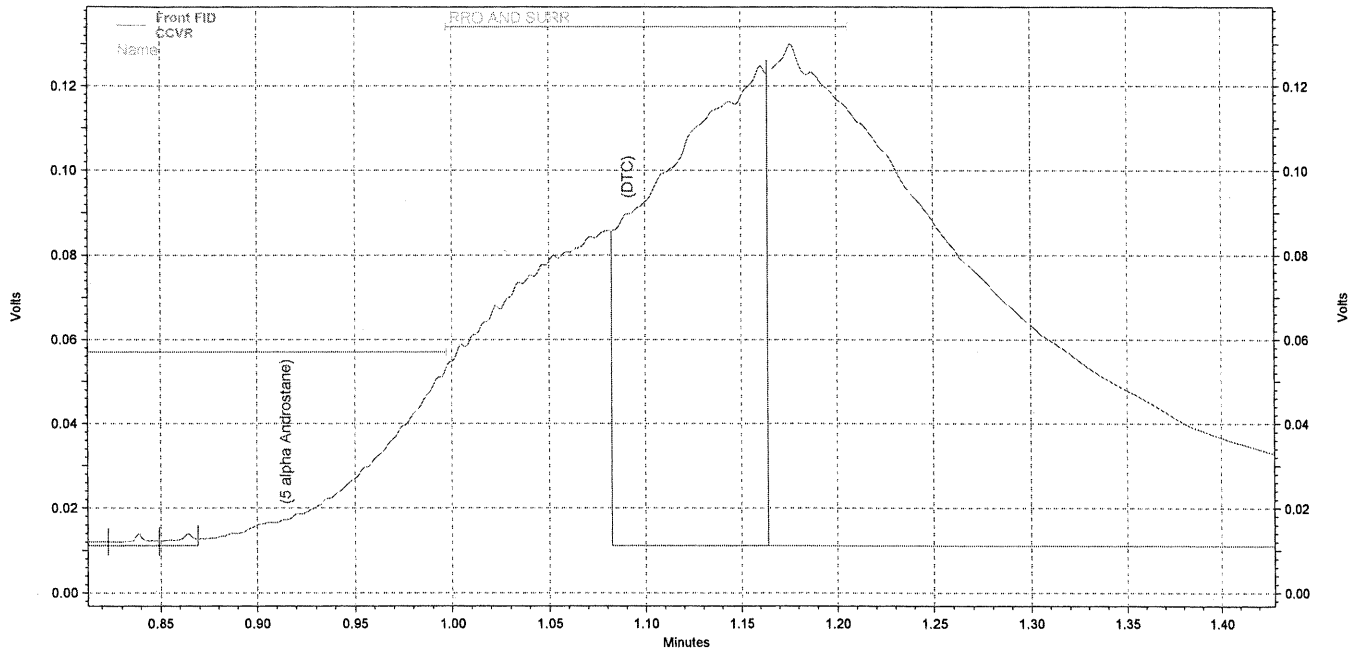
Sample File: E:\Public\2006\08\SA\Data\082406\SAF07190824_057.DAT

DRO/RRO



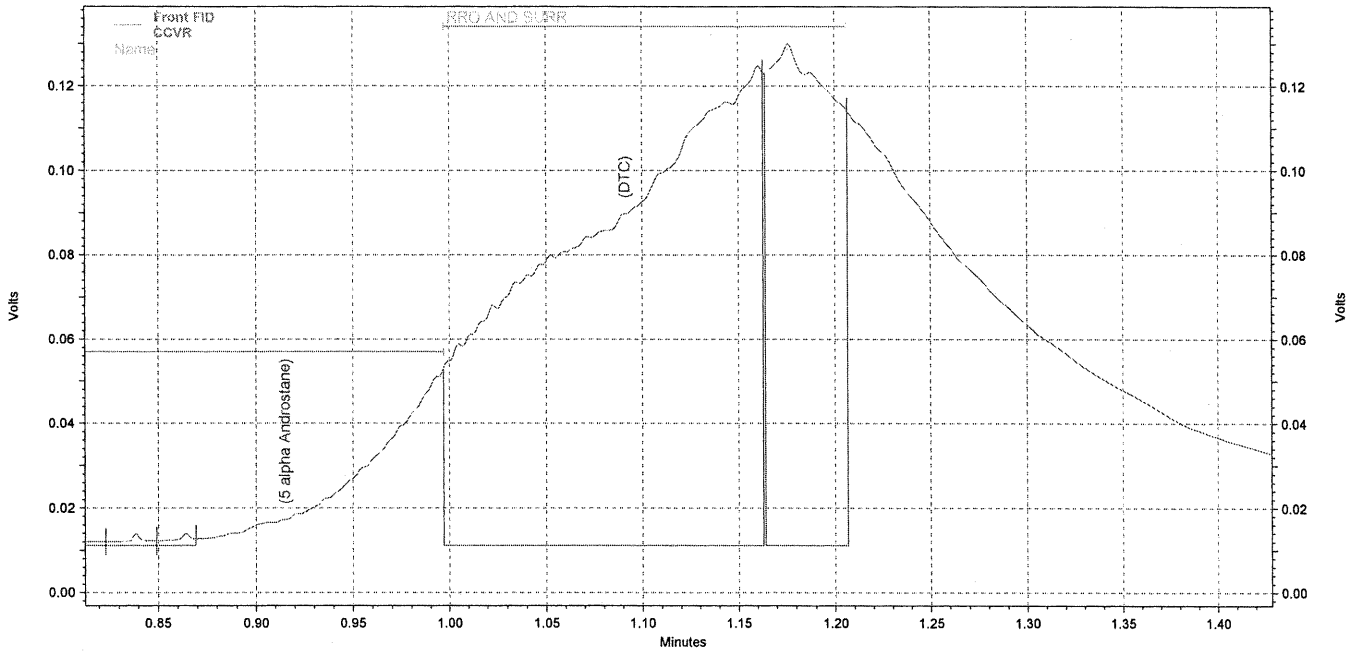
Front FID Results

Name	R.T.	Area	Amount	IC	Units
DRO		17144	42.827 LC		mg/L
RRO		1059501	4548.493		mg/L
DRO AND Surr		17144	42.827 LC		mg/L
RRO AND Surr		1059501	4548.493		mg/L



E:\Public\2006\08\SA\Data\082406\SAF07190824_057.DAT, Front FID

*before
JE 8/24/06*



E:\Public\2006\08\SA\Data\082406\SAF07190824_057.DAT, Front FID

after
8/24/06

Section 7.1

Section Contents:SGS Work Order: 1064875

Section : 7 AK103

State of Alaska Residual Range Hydrocarbons

Extraction Batch XXX17157*Analytical Batch: XFC7117*

	<u>HSN</u>	<u>Client ID</u>
Batch Summary Page		
Client Sample	1064875001	06GAM05GS17
Method Blank	721622	
Laboratory Control Sample	721623	
Laboratory Control Sample Duplicate	721624	
Instrument Blank	722369	
Calibration Check Sample	722371	
Calibration Check Sample	722372	
Calibration Check Sample	722432	
Calibration Check Sample	722434	
Horizon Run Log		
Instrument Run Log		
Extraction Log		

Extraction Batch XXX17165*Analytical Batch: XFC7118*

	<u>HSN</u>	<u>Client ID</u>
Batch Summary Page		
Client Sample	1064875003	06GAM05GS19
Client Sample	1064875004	06GAM05GS21
Client Sample	1064875005	06GAM05GS22
Client Sample	1064875006	06GAM05GS23
Client Sample	1064875007	06GAM05GS24
Client Sample	1064875008	06GAM05GS25
Method Blank	722000	
Laboratory Control Sample	722001	
Laboratory Control Sample Duplicate	722002	
Instrument Blank	722618	
Calibration Check Sample	722620	
Calibration Check Sample	722622	
Calibration Check Sample	722641	
Calibration Check Sample	722961	
Horizon Run Log		
Instrument Run Log		
Extraction Log		

* Reanalysis

SGS Environmental, Inc.

Analytical Quality Control Summary Data

Work Order(s):
1064196, 1064819, 1064842, 1064864,
1064875

Queue: XFC Batch: 7117
Method: AK102, AK102/103

Run Date: 08/23/06 11:06 - 08/23/06 16:17

Extraction Batch(es): XXX17157, XXX17169

QC Parameter	Goals Met?		
Calibration:	(Y)	N	N/A
Instrument/Method Blank:	(Y)	N	N/A
Initial/Continuing Calibration Verifications:	(Y)	N	N/A
Laboratory Control Sample:	(Y)	N	N/A
Laboratory Control Sample Duplicate:	(Y)	N	N/A
Relative Percent Difference:	(Y)	N	N/A
Sample Duplicate:	Y	N	(N/A)
Matrix Spike:	Y	(N)	N/A
Matrix Spike Duplicate:	Y	(N)	N/A
Relative Percent Difference:	(Y)	N	N/A
Surrogates:	(Y)	N	N/A
Sample Holding Time:	(Y)	N	N/A
Internal Standards	Y	N	(N/A)
GCMS Tuner/DDT Sample	Y	N	(N/A)

See case narrative/sample comments for further information : _____

Additional Notes:

final of partial batch

Is there any further action necessary for any out of control events described above? Y- N
Should a Corrective Action be initiated? Y N

I certify that except as specifically noted in this report, all statements and data appearing in this report are in conformance with the provisions of the Quality Assurance Plan (QAP) prepared by this firm and on file with the Alaska Department of Environmental Conservation.

Analyst's Signature: *Jennifer Excelesiu* Reviewer's Signature: *Sharon Foster*
Date: *8/24/06* Date: *8-24-06*

Lab Report No.: 1064875 Date: 09/20/2006

Page: 29

Project Name: 56016 Gambell FUDS		Analysis: State of Alaska Residual Range Hydrocarbons				
Project No: 05-013		Method: AK103				
		Prep Meth: SW3520C				
Field ID: 06GAM05GS17	Lab Samp ID: 1064875001					
Descr/Location: PWS	Rec'd Date: 08/21/2006					
Sample Date: 08/17/2006	Prep Date: 08/22/2006					
Sample Time: 1335	Analysis Date: 08/23/2006					
Matrix: Groundwater	QC Batch: XXX17157A					
Basis: Not Filtered	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Residual Range Organics	0.0600	0.500 PQL	J	0.170	MG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
n-Triacontane-d62		50-150 SMEA		99.7%		1
J: EPA Flag - Estimated value						

Approved by: _____

Date: _____ 683

QA/QC Report Method Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17157A Matrix: Water QC Lab Samp ID: 721622 Analysis Date: 08/23/2006 Basis: Not Filtered	Analysis: State of Alaska Residual Range Method: AK103 Prep Meth: SW3520C Prep Date: 08/22/2006 Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Residual Range Organics	0.0600	0.500 PQL	J	0.200	MG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
n-Triacontane-d62		60-120 SMEA		102%		1
J: EPA Flag - Estimated value						

QA/QC Report
Blank Spike/Duplicate Blank Spike Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17157A Matrix: Water QC Lab Samp ID: 721623											
Analyte	Analysis Method	Spike Level		Spike Result		Units	% Recoveries			Acceptance Criteria	
		LCS	LCD	LCS	LCD		LCS	LCD	RPD	%Rec	RPD
Residual Range Organics	AK103	1.	1.	0.970	1.04	MG/L	97.0	104	7.0	120-60 MEA	20MEP
n-Triacontane-d62	AK103	100.	100.	111.	111.	PERCENT	111	111	0.00	120-60 SMEA	NA

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17157A Matrix: Water QC Lab Samp ID: 722369 Analysis Date: 08/23/2006 Basis: Not Applicable	Analysis: State of Alaska Residual Range Method: AK103 Prep Meth: NONE Prep Date: 08/23/2006 Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Residual Range Organics	500.	500.	PQL	ND	MG/L	1

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17157A						
Matrix: Water QC						
Lab Samp ID: 722371						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Residual Range Organics	AK103	5000.	5360.	MG/L	107	125-75 MECC

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17157A						
Matrix: Water QC						
Lab Samp ID: 722372						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Residual Range Organics	AK103	5000.	5600.	MG/L	112	125-75 MECC

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17157A						
Matrix: Water QC						
Lab Samp ID: 722432						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Residual Range Organics	AK103	5000.	5100.	MG/L	102	125-75 MECC

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17157A						
Matrix: Water QC						
Lab Samp ID: 722434						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Residual Range Organics	AK103	5000.	5240.	MG/L	105	125-75 MECC

B

SGS Alaska Division Peer Review Report - Horizon Run Log

Queue: XFC Batch: 7117 Create User: JE Run Date: 08/23/06 Printed: 24-Aug-06

Project	HSN	Type	Sample ID	CC	Bottle Number	Matrix	Inst	Run Date/Time	Bench Dilution	Prep Batch	Seq
	722369	IB		OK		1	SDR	08/23/06 11:06	1	/	1
	722431	CCVB		OK		1	SDR	08/23/06 11:16	1	/	2
	722432	CCVR		OK		1	SDR	08/23/06 11:21	1	/	3
	721622	MB		OK		1	SDR	08/23/06 11:40	1	17157XXX	4
	721623	LCS		OK		1	SDR	08/23/06 11:44	1	17157XXX	5
	721624	LCSD		OK		1	SDR	08/23/06 11:50	1	17157XXX	6
1064819	1064819055	PS	East Pond	OK	1064819055-E	1	SDR	08/23/06 11:58	1	17157XXX	7
1064819	1064819056	PS	West Pond	OK	1064819056-E	1	SDR	08/23/06 12:03	1	17157XXX	8
1064819	1064819057	PS	West Pond Dup	OK	1064819057-E	1	SDR	08/23/06 12:08	1	17157XXX	9
1064842	1064842001	PS	BCP4-AP-4	OK	1064842001-C	1	SDR	08/23/06 12:18	1	17157XXX	10
1064842	1064842002	PS	BCP4-AP-28	OK	1064842002-D	1	SDR	08/23/06 12:23	1	17157XXX	11
1064842	1064842003	PS	BCP4-AP-27	OK	1064842003-D	1	SDR	08/23/06 12:28	1	17157XXX	12
1064842	1064842004	PS	BCP4-AP-14	OK	1064842004-D	1	SDR	08/23/06 12:38	1	17157XXX	13
1064842	1064842005	PS	BCP4-AP-24	OK	1064842005-D	1	SDR	08/23/06 12:43	1	17157XXX	14
1064842	1064842006	PS	BCP4-AP-31	OK	1064842006-D	1	SDR	08/23/06 12:48	1	17157XXX	15
1064842	1064842007	PS	BCP4-AP-31-02	OK	1064842007-D	1	SDR	08/23/06 12:58	1	17157XXX	16
	722433	CCVB		OK		1	SDR	08/23/06 13:03	1	/	17
	722434	CCVR		OK		1	SDR	08/23/06 13:08	1	/	18
1064842	1064842008	PS	BCP4-AP-30	OK	1064842008-D	1	SDR	08/23/06 13:23	1	17157XXX	19
1064842	1064842009	PS	BCP4-AP-20	OK	1064842009-C	1	SDR	08/23/06 13:28	1	17157XXX	20
1064842	1064842010	PS	BCP4-AP-25	OK	1064842010-D	1	SDR	08/23/06 13:38	1	17157XXX	21
1064842	1064842011	PS	BCP4-AP-26	OK	1064842011-D	1	SDR	08/23/06 13:43	1	17157XXX	22
1064842	1064842012	PS	BCP4-AP-3	OK	1064842012-G	1	SDR	08/23/06 13:48	1	17157XXX	23
1064842	1064842013	PS	BCP4-AP-3D	OK	1064842013-G	1	SDR	08/23/06 13:57	1	17157XXX	24
1064842	1064842014	PS	BCP4-AP-10	OK	1064842014-D	1	SDR	08/23/06 14:02	1	17157XXX	25
1064864	1064864001	PS	06COST01SW	OK	1064864001-G	1	SDR	08/23/06 14:07	1	17157XXX	26
1064864	1064864002	PS	06COST02SW	OK	1064864002-G	1	SDR	08/23/06 14:17	1	17157XXX	27
1064875	1064875001	PS	06GAM05GS17	OK	1064875001-H	1	SDR	08/23/06 14:22	1	17157XXX	28
	722370	CCVB		OK		1	SDR	08/23/06 14:27	1	/	29
	722371	CCVR		OK		1	SDR	08/23/06 14:32	1	/	30
	722081	MB		OK		2	SDR	08/23/06 15:33	1	17169XXX	31
	722082	LCS		OK		2	SDR	08/23/06 15:38	1	17169XXX	32
1064196	1064196001	PS	06FTW-SS-4-4	OK	1064196001-B	2	SDR	08/23/06 15:43	1	17169XXX	33
1064864	1064864008	PS	06SLOPE03SL	OK	1064864008-A	2	SDR	08/23/06 15:48	1	17169XXX	34
	722353	MS		OK		2	SDR	08/23/06 15:53	1	17169XXX	35
	722354	MSD		OK		2	SDR	08/23/06 15:58	1	17169XXX	36
	722372	CCVR		OK		1	SDR	08/23/06 16:07	1	/	37
	722373	CCVB		OK		1	SDR	08/23/06 16:17	1	/	38

Sample ID	Date Acquired	Inlt	Mult	Instr	Data File	Comments	Area C9
IB	8/23/2006 10:46:43 AM	MCM	1	SD	SDR07110823_001-Rep1.D...	46121	PEAK....
IB	8/23/2006 10:51:45 AM	MCM	1	SD	SDR07110823_001-Rep2.D...	46121	PEAK....
IB	8/23/2006 10:56:47 AM	MCM	1	SD	SDR07110823_001-Rep3.D...	46121	PEAK....
IB	8/23/2006 11:01:46 AM	MCM	1	SD	SDR07110823_001-Rep4.D...	46121	PEAK....
IB	8/23/2006 11:06:48 AM	MCM	1	SD	SDR07110823_001-Rep5.D...	46121	PEAK....
C10-C26,C28,C30...	8/23/2006 11:11:43 AM	MCM	1	SD	SDR07110823_002.DAT	SVW8-138-10	PEAK....
CCVB	8/23/2006 11:16:41 AM	MCM	1	SD	SDR07110823_003.DAT	SVW8-128-25	PEAK....
CCVR	8/23/2006 11:21:44 AM	MCM	1	SD	SDR07110823_004.DAT		PEAK....
IB	8/23/2006 11:30:06 AM	MCM	1	SD	SDR07110823_005.DAT		PEAK....
IB	8/23/2006 11:35:05 AM	MCM	1	SD	SDR07110823_006.DAT		PEAK....
721622 MB 17157	8/23/2006 11:40:02 AM	MCM	1	SD	SDR07110823_007.DAT		PEAK....
721623 LCS 17157	8/23/2006 11:44:59 AM	MCM	1	SD	SDR07110823_008.DAT		PEAK....
721624 LCSD 171...	8/23/2006 11:50:02 AM	MCM	1	SD	SDR07110823_009.DAT		PEAK....
1064819055 E	8/23/2006 11:58:52 AM	MCM	1	SD	SDR07110823_010.DAT		PEAK....
1064819056 E	8/23/2006 12:03:49 PM	MCM	1	SD	SDR07110823_011.DAT		PEAK....
1064819057 E	8/23/2006 12:08:49 PM	MCM	1	SD	SDR07110823_012.DAT		PEAK....
IB	8/23/2006 12:13:47 PM	MCM	1	SD	SDR07110823_013.DAT		PEAK....
1064842001 C	8/23/2006 12:18:45 PM	MCM	1	SD	SDR07110823_014.DAT		PEAK....
1064842002 D	8/23/2006 12:23:45 PM	MCM	1	SD	SDR07110823_015.DAT		PEAK....
1064842003 D	8/23/2006 12:28:40 PM	MCM	1	SD	SDR07110823_016.DAT		PEAK....
IB	8/23/2006 12:33:37 PM	MCM	1	SD	SDR07110823_017.DAT		PEAK....
1064842004 D	8/23/2006 12:38:35 PM	MCM	1	SD	SDR07110823_018.DAT		PEAK....
1064842005 D	8/23/2006 12:43:34 PM	MCM	1	SD	SDR07110823_019.DAT		PEAK....
1064842006 D	8/23/2006 12:48:33 PM	MCM	1	SD	SDR07110823_020.DAT		PEAK....
IB	8/23/2006 12:53:39 PM	MCM	1	SD	SDR07110823_021.DAT		PEAK....
1064842007 D	8/23/2006 12:58:33 PM	MCM	1	SD	SDR07110823_022.DAT		PEAK....
CCVB	8/23/2006 1:03:29 PM	MCM	1	SD	SDR07110823_023.DAT		PEAK....
CCVR	8/23/2006 1:08:28 PM	MCM	1	SD	SDR07110823_024.DAT		PEAK....
IB	8/23/2006 1:13:27 PM	MCM	1	SD	SDR07110823_025.DAT		PEAK....
IB	8/23/2006 1:18:22 PM	MCM	1	SD	SDR07110823_026.DAT		PEAK....
1064842008 D	8/23/2006 1:23:23 PM	MCM	1	SD	SDR07110823_027.DAT		PEAK....
1064842009 D	8/23/2006 1:28:20 PM	MCM	1	SD	SDR07110823_028.DAT		PEAK....
IB	8/23/2006 1:33:16 PM	MCM	1	SD	SDR07110823_029.DAT		PEAK....
1064842010 D	8/23/2006 1:38:16 PM	MCM	1	SD	SDR07110823_030.DAT		PEAK....
1064842011 D	8/23/2006 1:43:10 PM	MCM	1	SD	SDR07110823_031.DAT		PEAK....
1064842012 D	8/23/2006 1:48:03 PM	MCM	1	SD	SDR07110823_032.DAT		PEAK....
IB	8/23/2006 1:53:04 PM	MCM	1	SD	SDR07110823_033.DAT		PEAK....
1064842013 D	8/23/2006 1:57:59 PM	MCM	1	SD	SDR07110823_034.DAT		PEAK....
1064842014 D	8/23/2006 2:02:57 PM	MCM	1	SD	SDR07110823_035.DAT		PEAK....
1064864001 G	8/23/2006 2:07:56 PM	MCM	1	SD	SDR07110823_036.DAT		PEAK....
IB	8/23/2006 2:12:53 PM	MCM	1	SD	SDR07110823_037.DAT		PEAK....
1064864002 G	8/23/2006 2:17:50 PM	MCM	1	SD	SDR07110823_038.DAT		PEAK....
1064875001 H	8/23/2006 2:22:51 PM	MCM	1	SD	SDR07110823_039.DAT		PEAK....
CCVB	8/23/2006 2:27:47 PM	MCM	1	SD	SDR07110823_040.DAT		PEAK....
CCVR	8/23/2006 2:32:45 PM	MCM	1	SD	SDR07110823_041.DAT		PEAK....
IB	8/23/2006 2:37:42 PM	MCM	1	SD	SDR07110823_042.DAT		PEAK....
IB	8/23/2006 2:42:41 PM	MCM	1	SD	SDR07110823_043.DAT		PEAK....
722081 MB 17169	8/23/2006 3:33:18 PM	MCM	1	SD	SDR07110823_044.DAT		PEAK....
722082 LCS 17169	8/23/2006 3:38:15 PM	MCM	1	SD	SDR07110823_045.DAT		PEAK....
1064196001 B	8/23/2006 3:43:11 PM	MCM	1	SD	SDR07110823_046.DAT		PEAK....
1064864008	8/23/2006 3:48:08 PM	MCM	1	SD	SDR07110823_047.DAT		PEAK....
MS 17169	8/23/2006 3:53:09 PM	MCM	1	SD	SDR07110823_048.DAT		PEAK....

8/24/2006 1:29:18 PM

MSD 17169	8/23/2006 3:58:05 PM	MCM	1	SD	SDR07110823_049.DAT	PEAK....
CCVB	8/23/2006 4:02:59 PM	MCM	1	SD	SDR07110823_050.DAT	PEAK....
CCVR	8/23/2006 4:07:58 PM	MCM	1	SD	SDR07110823_051.DAT	PEAK....
IB	8/23/2006 4:12:52 PM	MCM	1	SD	SDR07110823_052.DAT	PEAK....
IB	8/23/2006 4:17:50 PM	MCM	1	SD	SDR07110823_053.DAT	PEAK....

8/23/06

Date: 8-23-06 Inst: SDR Operator: J.E. Batch: XFC 7117 Analysis: 102/103

SAMPLE ID	DF	Comments	Vials	Data File	Standard ID
IB			1	SDR07110823_001.DAT	46121
C10-C26,C28,C30,C32,C34,C36			2	SDR07110823_002.DAT	SVW8-146-1
CCVB 118			3	SDR07110823_003.DAT	SVW8-138-10
CCVR 102			4	SDR07110823_004.DAT	SVW8-128-25
IB			1	SDR07110823_005.DAT	
IB			1	SDR07110823_006.DAT	
721622 MB 17157 87/1102			5	SDR07110823_007.DAT	
721623 LCS 17157 93/111 94/97		unstable skim DR	6	SDR07110823_008.DAT	
721624 LCSD 17157 86/110 87/104		added drops	7	SDR07110823_009.DAT	
1064819055 E ✓			8	SDR07110823_010.DAT	
1064819056 E ✓			9	SDR07110823_011.DAT	
1064819057 E ✓			10	SDR07110823_012.DAT	
IB			1	SDR07110823_013.DAT	
1064842001 C ✓			11	SDR07110823_014.DAT	
1064842002 D ✓			12	SDR07110823_015.DAT	
1064842003 D ✓			13	SDR07110823_016.DAT	
IB			1	SDR07110823_017.DAT	
1064842004 D ✓			14	SDR07110823_018.DAT	
1064842005 D ✓			15	SDR07110823_019.DAT	
1064842006 D ✓			16	SDR07110823_020.DAT	
IB			1	SDR07110823_021.DAT	
1064842007 D ✓			17	SDR07110823_022.DAT	
CCVB 122			3	SDR07110823_023.DAT	
CCVR 104			4	SDR07110823_024.DAT	
IB			1	SDR07110823_025.DAT	
IB			1	SDR07110823_026.DAT	
1064842008 D ✓			18	SDR07110823_027.DAT	
1064842009 D ✓			19	SDR07110823_028.DAT	
IB			1	SDR07110823_029.DAT	
1064842010 D ✓			20	SDR07110823_030.DAT	
1064842011 D ✓			21	SDR07110823_031.DAT	
1064842012 D ✓		glycol	22	SDR07110823_032.DAT	
IB			1	SDR07110823_033.DAT	
1064842013 D ✓		glycol	23	SDR07110823_034.DAT	
1064842014 D ✓			24	SDR07110823_035.DAT	
1064864001 G ✓			25	SDR07110823_036.DAT	
IB			1	SDR07110823_037.DAT	
1064864002 G ✓			26	SDR07110823_038.DAT	
1064875001 H ✓			27	SDR07110823_039.DAT	
CCVB 122			3	SDR07110823_040.DAT	
CCVR 107			4	SDR07110823_041.DAT	
IB			1	SDR07110823_042.DAT	
IB			1	SDR07110823_043.DAT	
722081 MB 17169 94/102			28	SDR07110823_044.DAT	
722082 LCS 17169 91/83 92/97		REO 305	29	SDR07110823_045.DAT	
1064196001 B ✓			30	SDR07110823_046.DAT	
1064864008 ✓			31	SDR07110823_047.DAT	
MS 17169 ✓			32	SDR07110823_048.DAT	
MSD 17169 ✓			33	SDR07110823_049.DAT	
CCVB 128 rr			3	SDR07110823_050.DAT	
CCVR 112			4	SDR07110823_051.DAT	
IB					
CCVB 103					



Horizon Batch #: 17157

Extraction Bench Sheet

	ID	Amount Added (ml)	Conc.
Surrogates:	SWP-MS-1	1ml	100ug/ml
Martix Spikes:	SWP-79-4	1ml	100ug/ml

Reagent Lot # Na2SO4 PW1-37-4
1ml pipette 51959

Solvent Lot No. Used: CH2Cl2 (0591/45277)
TV Temperature: 480
8/22/06

Extraction Method: 3520/102+3
Extraction Start Date/Time: 8/22/06 10:10
Extraction Finish Date/Time: 8/22/06 11:16
Extr. Technician: RM, JDS

Spike Witness: RM^s, JDS^w

Posted By / Date: JDS 8/22/06

Batch Released By: _____

#	Workorder No.	Initial Wt./ Vol. (gm / mL)	Final Volume (ml)	Continued extraction for 4 hrs	(pH, sonication level, sample and/or extract description)	Comments
1	Method Blank	1000	1ml		7.21622	pH=2
2	LCS	↓			↓ 3	
3	LCS D	↓			↓ 4	
4	4819-55 E	1000				
5	-56	965				
6	-57	1000				
7	4842-1 C	↓				
8	-2 D	980				
9	-3	1000				
10	-4					
11	-5					
12	-6					
13	-7					
14	-8					
15	-9 C					
16	-10 D					
17	-11					
18	-12 G	↓				
19	-13	840				
20	4864-1 G	960				
21	-2	930				
22	4875-1 H	1000				
23	4842-14 D	1000				
24						
25						

NOTES:

Handwritten signature and date: JDS 8/22/06

SGS Environmental, Inc.

Analytical Quality Control Summary Data

Work Order(s) ~~1064852~~ ~~1064875~~ 1064903, 1064905 ✓

Queue: XFC Batch: 7118
Method: AK102, AK102/103

Run Date: 08/24/06 09:06 - 08/24/06 16:56

Extraction Batch(es): XXX17165, XXX17173 ✓

QC Parameter	Goals Met?		
Calibration:	(Y)	N	N/A
Instrument/Method Blank:	(Y)	N	N/A
Initial/Continuing Calibration Verifications:	(Y)	N	N/A
Laboratory Control Sample:	Y	(N)	N/A
Laboratory Control Sample Duplicate:	Y	N	(N/A)
Relative Percent Difference:	Y	N	(N/A)
Sample Duplicate:	Y	N	(N/A)
Matrix Spike:	Y	(N)	N/A
Matrix Spike Duplicate:	Y	(N)	N/A
Relative Percent Difference:	Y	(N)	N/A
Surrogates:	(Y)	N	N/A
Sample Holding Time:	(Y)	N	N/A
Internal Standards	Y	N	(N/A)
GCMS Tuner/DDT Sample	Y	N	(N/A)

See case narrative/sample comments for further information : _____

Additional Notes:

final of partial batch

Is there any further action necessary for any out of control events described above? Y N

Should a Corrective Action be initiated? Y N

I certify that except as specifically noted in this report, all statements and data appearing in this report are in conformance with the provisions of the Quality Assurance Plan (QAP) prepared by this firm and on file with the Alaska Department of Environmental Conservation.

Analyst's Signature: Jennifer Encelwood Reviewer's Signature: Shane Poston

Date: 8/26/06

Date: 8-28-06

Lab Report No.: 1064875 Date: 09/20/2006

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Project Name: 56016 Gambell FUDS		Analysis: State of Alaska Residual Range Hydrocarbons					
Project No: 05-013		Method: AK103					
		Prep Meth: SW3520C					
Field ID: 06GAM05GS19		Lab Samp ID: 1064875003					
Descr/Location: MW-30		Rec'd Date: 08/21/2006					
Sample Date: 08/16/2006		Prep Date: 08/23/2006					
Sample Time: 1230		Analysis Date: 08/24/2006					
Matrix: Groundwater		QC Batch: XXX17165A					
Basis: Not Filtered		Notes:					
Analyte	Det Limit	Rep Limit		Note	Result	Units	Pvc Dil
Residual Range Organics	0.0600	0.500	PQL	J	0.113	MG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:							
n-Triacontane-d62		50-150	SMEA		81.6%		1
J: EPA Flag - Estimated value							

Approved by: _____

Date: _____ 697

Lab Report No.: 1064875 Date: 09/20/2006

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Project Name: 56016 Gambell FUDS		Analysis: State of Alaska Residual Range Hydrocarbons				
Project No: 05-013		Method: AK103				
		Prep Meth: SW3520C				
Field ID: 06GAM05GS21	Lab Samp ID: 1064875004					
Descr/Location: MW-30	Rec'd Date: 08/21/2006					
Sample Date: 08/16/2006	Prep Date: 08/23/2006					
Sample Time: 1150	Analysis Date: 08/24/2006					
Matrix: Groundwater	QC Batch: XXX17165A					
Basis: Not Filtered	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Residual Range Organics	0.0600	0.500 PQL	J	0.110	MG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
n-Triacontane-d62		50-150 SMEA		93.6%		1
J: EPA Flag - Estimated value						

Approved by: _____

Date: _____

Lab Report No.: 1064875 Date: 09/20/2006

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Project Name: 56016 Gambell FUDS		Analysis: State of Alaska Residual Range Hydrocarbons				
Project No: 05-013		Method: AK103				
		Prep Meth: SW3520C				
Field ID: 06GAM05GS22	Lab Samp ID: 1064875005					
Descr/Location: MW-14	Rec'd Date: 08/21/2006					
Sample Date: 08/16/2006	Prep Date: 08/23/2006					
Sample Time: 1445	Analysis Date: 08/24/2006					
Matrix: Groundwater	QC Batch: XXX17165A					
Basis: Not Filtered	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Residual Range Organics	0.0600	0.500 PQL		ND	MG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
n-Triacontane-d62		50-150 SMEA		73.8%		1

Approved by: _____

Date: _____

Lab Report No.: 1064875 Date: 09/20/2006

Page: 24

Project Name: 56016 Gambell FUDS		Analysis: State of Alaska Residual Range Hydrocarbons					
Project No: 05-013		Method: AK103					
		Prep Meth: SW3520C					
Field ID: 06GAM05GS23		Lab Samp ID: 1064875006					
Descr/Location: MW-15		Rec'd Date: 08/21/2006					
Sample Date: 08/16/2006		Prep Date: 08/23/2006					
Sample Time: 1550		Analysis Date: 08/24/2006					
Matrix: Groundwater		QC Batch: XXX17165A					
Basis: Not Filtered		Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil	
Residual Range Organics	0.0600	0.500 PQL		ND	MG/L	1	
SURROGATE AND INTERNAL STANDARD RECOVERIES:							
n-Triacontane-d62		50-150 SMEA		68.9%		1	

Approved by: _____

Date: _____ 700

Lab Report No.: 1064875 Date: 09/20/2006

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Project Name: 56016 Gambell FUDS		Analysis: State of Alaska Residual Range Hydrocarbons					
Project No: 05-013		Method: AK103					
		Prep Meth: SW3520C					
Field ID: 06GAM05GS24		Lab Samp ID: 1064875007					
Descr/Location: MW-32		Rec'd Date: 08/21/2006					
Sample Date: 08/16/2006		Prep Date: 08/23/2006					
Sample Time: 1700		Analysis Date: 08/24/2006					
Matrix: Groundwater		QC Batch: XXX17165A					
Basis: Not Filtered		Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil	
Residual Range Organics	0.0600	0.500 PQL		ND	MG/L	1	
SURROGATE AND INTERNAL STANDARD RECOVERIES:							
n-Triacontane-d62		50-150 SMEA		74.6%		1	

Approved by: _____

Date: _____ 701

Lab Report No.: 1064875 Date: 09/20/2006

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Project Name: 56016 Gambell FUDS		Analysis: State of Alaska Residual Range Hydrocarbons				
Project No: 05-013		Method: AK103				
		Prep Meth: SW3520C				
Field ID: 06GAM05GS25	Lab Samp ID: 1064875008					
Descr/Location: MW-29	Rec'd Date: 08/21/2006					
Sample Date: 08/16/2006	Prep Date: 08/23/2006					
Sample Time: 1830	Analysis Date: 08/24/2006					
Matrix: Groundwater	QC Batch: XXX17165A					
Basis: Not Filtered	Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Residual Range Organics	0.0600	0.500 PQL		ND	MG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
n-Triacontane-d62		50-150 SMEA		73.1%		1

Approved by: _____

Date: _____ 702

QA/QC Report Method Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17165A Matrix: Water QC Lab Samp ID: 722000 Analysis Date: 08/24/2006 Basis: Not Filtered	Analysis: State of Alaska Residual Range Method: AK103 Prep Meth: SW3520C Prep Date: 08/23/2006 Notes:					
Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Residual Range Organics	0.0600	0.500 PQL		ND	MG/L	1
SURROGATE AND INTERNAL STANDARD RECOVERIES:						
n-Triacontane-d62		60-120 SMEA		75.6%		1

QA/QC Report Blank Spike/Duplicate Blank Spike Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17165A Matrix: Water QC Lab Samp ID: 722001												
Analyte	Analysis Method	Spike Level		Spike Result		Units	% Recoveries			Acceptance Criteria		
		LCS	LCD	LCS	LCD		LCS	LCD	RPD	%Rec	RPD	
Residual Range Organics	AK103	1.	1.	0.835	0.764	MG/L	83.5	76.4	8.9	120-60	MEA	20MEP
n-Triacontane-d62	AK103	100.	100.	87.4	84.9	PERCENT	87.4	84.9	2.9	120-60	SMEA	NA

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17165A	Analysis: State of Alaska Residual Range
Matrix: Water QC	Method: AK103
Lab Samp ID: 722618	Prep Meth: NONE
Analysis Date: 08/24/2006	Prep Date: 08/24/2006
Basis: Not Applicable	Notes:

Analyte	Det Limit	Rep Limit	Note	Result	Units	Pvc Dil
Residual Range Organics	500.	500.	PQL	ND	MG/L	1

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17165A						
Matrix: Water QC						
Lab Samp ID: 722620						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Residual Range Organics	AK103	5000.	4320.	MG/L	86.4	125-75 MECC

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17165A						
Matrix: Water QC						
Lab Samp ID: 722622						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Residual Range Organics	AK103	5000.	4510.	MG/L	90.2	125-75 MECC

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17165A						
Matrix: Water QC						
Lab Samp ID: 722641						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Residual Range Organics	AK103	5000.	4550.	MG/L	91.0	125-75 MECC

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: XXX17165A						
Matrix: Water QC						
Lab Samp ID: 722961						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Residual Range Organics	AK103	5000.	4170.	MG/L	83.4	125-75 MECC

SGS Alaska Division Peer Review Report - Horizon Run Log

Queue: XFC Batch: 7118 Create User: JE Run Date: 08/24/06 Printed: 26-Aug-06

Project	HSN	Type	Sample ID	CC Bottle Number	Matrix	Inst	Run Date/Time	Bench Dilution	Prep Batch	Seq
	722618	IB		OK	1	SAF	08/24/06 09:06	1		1
	722960	CCVB		OK	1	SAF	08/24/06 09:15	1		2
	722961	CCVR		OK	1	SAF	08/24/06 09:19	1		3
	722000	MB		OK	1	SAF	08/24/06 09:31	1	17165XXX	4
	722001	LCS		OK	1	SAF	08/24/06 09:35	1	17165XXX	5
	722002	LCSD		OK	1	SAF	08/24/06 09:40	1	17165XXX	6
1064852	1064852049	PS	ADPSW01	OK 1064852049-C	1 ✓	SAF	08/24/06 12:15 ✓	1	17165XXX	7
1064852	1064852050	BMS	ADPSW01 MS	OK 1064852050-C	1 ✓	SAF	08/24/06 12:20	1	17165XXX	8
1064852	1064852051	BMSD	ADPSW01 MSD	OK 1064852051-C	1 ✓	SAF	08/24/06 12:24	1	17165XXX	9
1064852	1064852052	PS	ADPSW02	OK 1064852052-D	1 ✓	SAF	08/24/06 12:28	1	17165XXX	10
1064852	1064852053	PS	ADPSW02 Dup	OK 1064852053-D	1 ✓	SAF	08/24/06 12:32	1	17165XXX	11
1064852	1064852054	PS	ADPSW03	OK 1064852054-D	1 ✓	SAF	08/24/06 12:41	1	17165XXX	12
1064852	1064852055	PS	ADPSW05	OK 1064852055-D	1 ✓	SAF	08/24/06 12:45	1	17165XXX	13
1064852	1064852056	PS	ADPSW07	OK 1064852056-A	1 ✓	SAF	08/24/06 12:49	1	17165XXX	14
1064875	1064875003	PS	06GAM05GS19	OK 1064875003-H	1 ✓	SAF	08/24/06 12:57	1	17165XXX	15
1064875	1064875004	PS	06GAM05GS21	OK 1064875004-H	1	SAF	08/24/06 13:01	1	17165XXX	16
1064875	1064875005	PS	06GAM05GS22	OK 1064875005-H	1	SAF	08/24/06 13:06 ✓	1	17165XXX	17
	722619	CCVB		OK	1	SAF	08/24/06 13:10	1		18
	722620	CCVR		OK	1	SAF	08/24/06 13:14	1		19
1064875	1064875006	PS	06GAM05GS23	OK 1064875006-H	1	SAF	08/24/06 13:27	1	17165XXX	20
1064875	1064875007	PS	06GAM05GS24	OK 1064875007-H	1	SAF	08/24/06 13:31	1	17165XXX	21
1064875	1064875008	PS	06GAM05GS25	OK 1064875008-H	1 ✓	SAF	08/24/06 13:35	1	17165XXX	22
1064905	1064905001	PS	CDA6220-01	OK 1064905001-A	1 ✓	SAF	08/24/06 13:43	1	17165XXX	23
1064905	1064905002	PS	CDA6220-02	OK 1064905002-A	1 ✓	SAF	08/24/06 13:48	1	17165XXX	24
1064905	1064905003	PS	CDA6220-03	OK 1064905003-A	1 ✓	SAF	08/24/06 14:12	1	17165XXX	25
	722411	MB		OK	2	SAF	08/24/06 14:28	1	17173XXX	26
	722412	LCS		OK	2	SAF	08/24/06 14:33	1	17173XXX	27
1064903	1064903001	PS	06NTHW14S0	RP 1064903001-C	2 ✓	SAF	08/24/06 15:53	1	17173XXX	28
1064903	1064903002	PS	06NTHW15S0	RP 1064903002-C	2	SAF	08/24/06 15:57	1	17173XXX	29
1064903	1064903003	PS	06NTHW16S0	RP 1064903003-C	2	SAF	08/24/06 16:01	1	17173XXX	30
	722621	CCVB		OK	1	SAF	08/24/06 16:05	1		31
	722622	CCVR		OK	1	SAF	08/24/06 16:10	1		32
1064903	1064903004	PS	06NTHW17S0	RP 1064903004-C	2	SAF	08/24/06 16:22 ✓	1	17173XXX	33
1064903	1064903005	PS	06NTHW18S0	RP 1064903005-C	2	SAF	08/24/06 16:26	1	17173XXX	34
1064903	1064903006	PS	06NTHW19S0	RP 1064903006-B	2 ✓	SAF	08/24/06 16:31 ✓	1	17173XXX	35
	722495	MS		RP	2	SAF	08/24/06 16:39	1	17173XXX	36
1064903	1064903007	BMS	06NTHW19S0 MS	RP 1064903007-B	2 ✓	SAF	08/24/06 16:39 ✓	1	17173XXX	37
	722496	MSD		RP	2	SAF	08/24/06 16:43	1	17173XXX	38
1064903	1064903008	BMSD	06NTHW19S0 MSD	RP 1064903008-B	2 ✓	SAF	08/24/06 16:43 ✓	1	17173XXX	39
1064903	1064903009	PS	06NTHW19S0	RP 1064903009-C	2 ✓	SAF	08/24/06 16:48 ✓	1	17173XXX	40
	722640	CCVB		OK	1	SAF	08/24/06 16:52	1		41
	722641	CCVR		OK	1	SAF	08/24/06 16:56	1		42

Sample ID	Date Acquired	Init	Mult	Instr	Data File	Comments	Area C9
IB	8/24/2006 8:49:57 AM	MCM	1	SA	SAF07190824_001-Rep1.DAT	45277	47316
IB	8/24/2006 8:54:03 AM	MCM	1	SA	SAF07190824_001-Rep2.DAT	45277	1129
IB	8/24/2006 8:58:21 AM	MCM	1	SA	SAF07190824_001-Rep3.DAT	45277	1728
IB	8/24/2006 9:02:30 AM	MCM	1	SA	SAF07190824_001-Rep4.DAT	45277	1116
IB	8/24/2006 9:06:54 AM	MCM	1	SA	SAF07190824_001-Rep5.DAT	45277	1187
C10-C26, C28,C3...	8/24/2006 9:11:02 AM	MCM	1	SA	SAF07190824_002.DAT	SVW8-146-1	121464
CCVB	8/24/2006 9:15:09 AM	MCM	1	SA	SAF07190824_003.DAT	SVW8-138-11	0
CCVR	8/24/2006 9:19:13 AM	MCM	1	SA	SAF07190824_004.DAT	SVW8-128-27	0
IB	8/24/2006 9:23:17 AM	MCM	1	SA	SAF07190824_005.DAT		0
IB	8/24/2006 9:27:27 AM	MCM	1	SA	SAF07190824_006.DAT		366
722000 MB 17165	8/24/2006 9:31:51 AM	MCM	1	SA	SAF07190824_007.DAT		36375
722001 LCS 17165	8/24/2006 9:35:57 AM	MCM	1	SA	SAF07190824_008.DAT		32934
722002 LCSD 171...	8/24/2006 9:40:27 AM	MCM	1	SA	SAF07190824_009.DAT		32167
1064852049 C	8/24/2006 12:15:43 PM	MCM	1	SA	SAF07190824_010.DAT		52350
1064852050 C BMS	8/24/2006 12:20:05 PM	MCM	1	SA	SAF07190824_011.DAT		38401
1064852051 C BM...	8/24/2006 12:24:30 PM	MCM	1	SA	SAF07190824_012.DAT		39920
1064852052 D	8/24/2006 12:28:37 PM	MCM	1	SA	SAF07190824_013.DAT		40952
1064852053 D	8/24/2006 12:32:43 PM	MCM	1	SA	SAF07190824_014.DAT		39946
IB	8/24/2006 12:37:08 PM	MCM	1	SA	SAF07190824_015.DAT		221
1064852054 D	8/24/2006 12:41:14 PM	MCM	1	SA	SAF07190824_016.DAT		42843
1064852055 D	8/24/2006 12:45:20 PM	MCM	1	SA	SAF07190824_017.DAT		37958
1064852056 A	8/24/2006 12:49:28 PM	MCM	1	SA	SAF07190824_018.DAT		41188
IB	8/24/2006 12:53:36 PM	MCM	1	SA	SAF07190824_019.DAT		360
1064875003 H	8/24/2006 12:57:48 PM	MCM	1	SA	SAF07190824_020.DAT		39121
1064875004 H	8/24/2006 1:01:53 PM	MCM	1	SA	SAF07190824_021.DAT		33924
1064875005 H	8/24/2006 1:06:15 PM	MCM	1	SA	SAF07190824_022.DAT		36137
CCVB	8/24/2006 1:10:40 PM	MCM	1	SA	SAF07190824_023.DAT		24826
CCVR	8/24/2006 1:14:45 PM	MCM	1	SA	SAF07190824_024.DAT		0
IB	8/24/2006 1:18:52 PM	MCM	1	SA	SAF07190824_025.DAT		0
IB	8/24/2006 1:23:02 PM	MCM	1	SA	SAF07190824_026.DAT		1004
1064875006 H	8/24/2006 1:27:03 PM	MCM	1	SA	SAF07190824_027.DAT		32240
1064875007 H	8/24/2006 1:31:28 PM	MCM	1	SA	SAF07190824_028.DAT		35227
1064875008 H	8/24/2006 1:35:36 PM	MCM	1	SA	SAF07190824_029.DAT		33434
IB	8/24/2006 1:39:44 PM	MCM	1	SA	SAF07190824_030.DAT		1129
1064905001 A	8/24/2006 1:43:49 PM	MCM	1	SA	SAF07190824_031.DAT		39277
1064905002 A	8/24/2006 1:48:13 PM	MCM	1	SA	SAF07190824_032.DAT		44016
1064905003 A	8/24/2006 2:12:01 PM	MCM	1	SA	SAF07190824_033.DAT		36527
IB	8/24/2006 2:16:12 PM	MCM	1	SA	SAF07190824_034.DAT		225
722411 MB 17173	8/24/2006 2:28:58 PM	MCM	1	SA	SAF07190824_035.DAT		35939
722412 LCS 17173	8/24/2006 2:33:19 PM	MCM	1	SA	SAF07190824_036.DAT		28973
IB	8/24/2006 2:37:28 PM	MCM	1	SA	SAF07190824_037.DAT		818
722079 MB 17168	8/24/2006 2:41:38 PM	MCM	1	SA	SAF07190824_038.DAT		34190
722080 LCS 17168	8/24/2006 2:45:40 PM	MCM	1	SA	SAF07190824_039.DAT		34305
722412 LCS 17173	8/24/2006 3:14:22 PM	MCM	1	SA	SAF07190824_040.DAT		17423
722412 LCS 17173	8/24/2006 3:23:39 PM	MCM	1	SA	SAF07190824_041.DAT		28885
1064903001 C	8/24/2006 3:53:11 PM	MCM	1	SA	SAF07190824_042.DAT		34906
1064903002 C	8/24/2006 3:57:30 PM	MCM	1	SA	SAF07190824_043.DAT		36005
1064903003 C	8/24/2006 4:01:50 PM	MCM	1	SA	SAF07190824_044.DAT		24682
CCVB	8/24/2006 4:05:56 PM	MCM	1	SA	SAF07190824_045.DAT		20471
CCVR	8/24/2006 4:10:03 PM	MCM	1	SA	SAF07190824_046.DAT		0
IB	8/24/2006 4:14:27 PM	MCM	1	SA	SAF07190824_047.DAT		804
IB	8/24/2006 4:18:34 PM	MCM	1	SA	SAF07190824_048.DAT		731

8/26/2006 1:36:22 PM

1064903004 C	8/24/2006 4:22:35 PM	MCM	1	SA	SAF07190824_049.DAT	34162
1064903005 C	8/24/2006 4:26:39 PM	MCM	1	SA	SAF07190824_050.DAT	33352
1064903006 B	8/24/2006 4:31:01 PM	MCM	1	SA	SAF07190824_051.DAT	32145
IB	8/24/2006 4:35:09 PM	MCM	1	SA	SAF07190824_052.DAT	881
1064903007 B BMS	8/24/2006 4:39:31 PM	MCM	1	SA	SAF07190824_053.DAT	33063
1064903008 B BM...	8/24/2006 4:43:57 PM	MCM	1	SA	SAF07190824_054.DAT	36628
1064903009 C	8/24/2006 4:48:14 PM	MCM	1	SA	SAF07190824_055.DAT	33638

K24/06

Date: 8-24-06 Inst: SAF Operator: J.E Batch: XFC 7110 Analysis: 102/103

SAMPLE ID	DF	Comments	Vials	Data File	Standard ID
IB			1	SAF07190824_001.DAT	45277
C10-C26, C28, C30, C32, C34, C36			2	SAF07190824_002.DAT	SVW8-146-1
CCVB 103			3	SAF07190824_003.DAT	SVW8-138-11
CCVR 83			4	SAF07190824_004.DAT	SVW8-128-27
IB			1	SAF07190824_005.DAT	
IB			1	SAF07190824_006.DAT	
722000 MB 17165 89/78			5	SAF07190824_007.DAT	
722001 LCS 17165 77/87 81/83		unable to skim DTC	6	SAF07190824_008.DAT	
722002 LCSD 17165 76/85 82/76			7	SAF07190824_009.DAT	
1064852049 C ✓			8	SAF07190824_010.DAT	
1064852050 C BMS ✓			9	SAF07190824_011.DAT	
1064852051 C BMSD ✓		NO Spk	10	SAF07190824_012.DAT	
1064852052 D ✓			11	SAF07190824_013.DAT	
1064852053 D ✓			12	SAF07190824_014.DAT	
IB			1	SAF07190824_015.DAT	
1064852054 D ✓			13	SAF07190824_016.DAT	
1064852055 D ✓			14	SAF07190824_017.DAT	
1064852056 A ✓			15	SAF07190824_018.DAT	
IB			1	SAF07190824_019.DAT	
1064875003 H ✓			16	SAF07190824_020.DAT	
1064875004 H ✓			17	SAF07190824_021.DAT	
1064875005 H ✓			18	SAF07190824_022.DAT	
CCVB 97			3	SAF07190824_023.DAT	
CCVR 86			4	SAF07190824_024.DAT	
IB			1	SAF07190824_025.DAT	
IB			1	SAF07190824_026.DAT	
1064875006 H ✓			19	SAF07190824_027.DAT	
1064875007 H ✓			20	SAF07190824_028.DAT	
1064875008 H ✓			21	SAF07190824_029.DAT	
IB			1	SAF07190824_030.DAT	
1064905001 A ✓			22	SAF07190824_031.DAT	
1064905002 A ✓			23	SAF07190824_032.DAT	
1064905003 A ✓			24	SAF07190824_033.DAT	
IB			1	SAF07190824_034.DAT	
722411 MB 17173 88/77		unable to skim DTC	25	SAF07190824_035.DAT	
722412 LCS 17173 68/78 70/66			26	SAF07190824_036.DAT	
IB			1	SAF07190824_037.DAT	
722079 MB 17168 83/77			27	SAF07190824_038.DAT	
722080 LCS 17168 81/95 86/79			28	SAF07190824_039.DAT	
1064903001 C ✓			29	SAF07190824_040.DAT	
1064903002 C ✓			30	SAF07190824_041.DAT	
1064903003 C ✓			31	SAF07190824_042.DAT	
CCVB 99			3	SAF07190824_043.DAT	
CCVR 90			4	SAF07190824_044.DAT	
IB			1	SAF07190824_045.DAT	
IB			1	SAF07190824_046.DAT	
1064903004 C ✓			32	SAF07190824_047.DAT	
1064903005 C ✓			33	SAF07190824_048.DAT	
1064903006 B ✓			34	SAF07190824_049.DAT	
IB			1	SAF07190824_050.DAT	
1064903007 B BMS ✓		unable to skim DTC	35	SAF07190824_051.DAT	

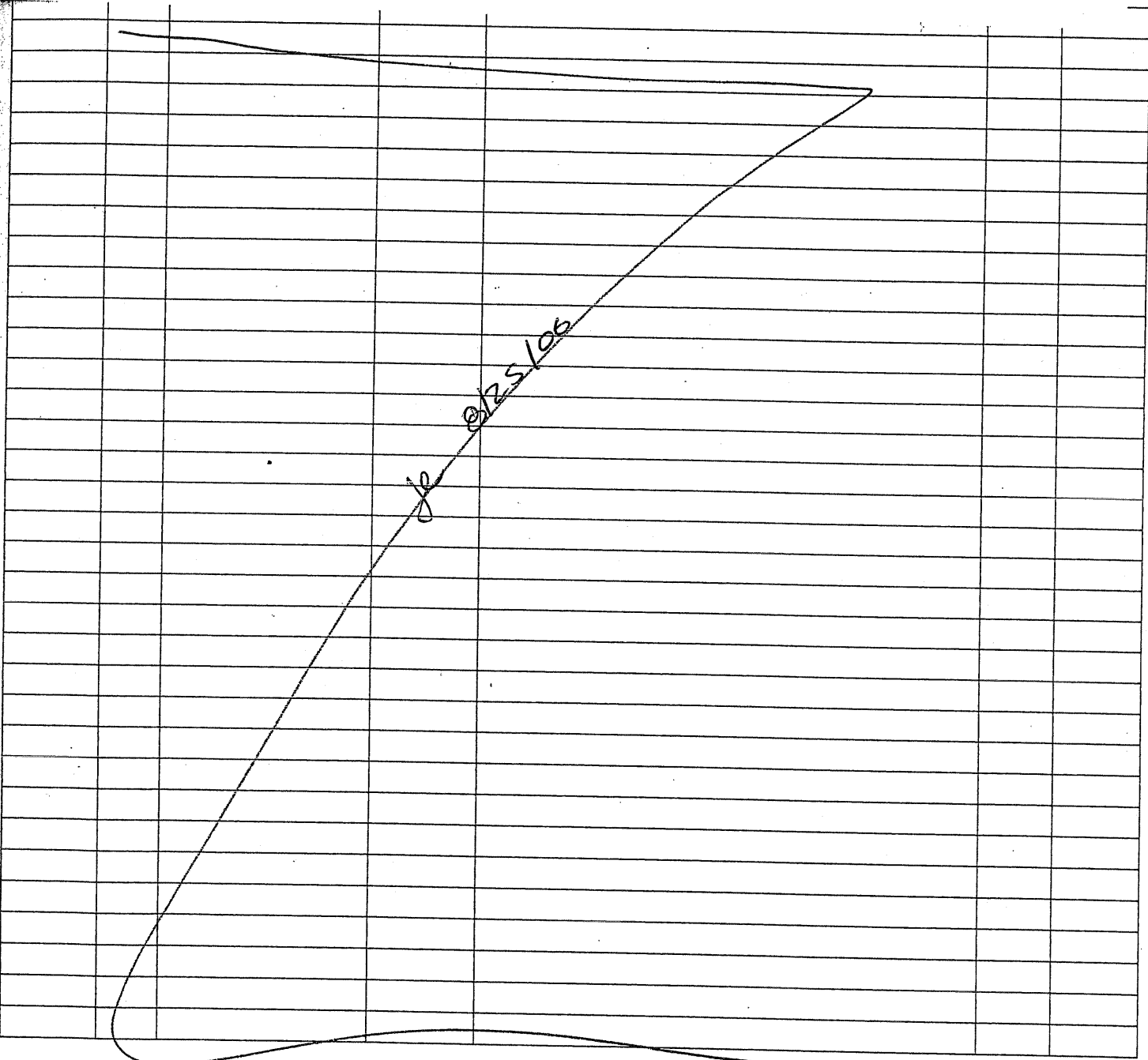
3/17

JE 8/25/06

Date: *B-24-06* Inst: *SAF* Operator: *J-E* Batch: *XFC 7118* Analysis: *102/103*

1064903008 B BMSD ✓				
1064903009 CV ✓		<i>unable to</i>	36	SAF07190824_052.DAT
CCVB <i>98</i>		<i>skin</i>	37	SAF07190824_053.DAT
CCVR <i>90</i>		<i>DTZ</i>	3	SAF07190824_054.DAT
			4	SAF07190824_055.DAT

↓ *57*



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Standards: _____

Horizon Batch #: 17165

Extraction Bench Sheet

Amount
 ID Added (ml) Conc.
 Surrogates: SVWR-145-1 1ml 100ug/ml
 Martix Spikes: SVWF-79-4 1ml 1000ug/ml
 Reagent Lot # Na₂SO₄ PWI-37-4
GlassWool-RM 8/23/06
1ml pipette 51958
 Solvent Lot No. Used: CH₂Cl₂ 45277/CR RM
 TV Temperature: 485 CO591

Extraction Method: 3520/102+3
 Extraction Start Date/Time: 8/23/06 09:50
 Extraction Finish Date/Time: ↓ 17:59
 Extr. Technician: RM, JS

Spike Witness: JDS^s, RM^w

Posted By / Date: RM 8/24/06

Batch Released By: _____

#	Workorder No.	Initial Wt./ Vol. (gm / mL)	Final Volume (ml)	continuously extracted for hrs	(pH, sonication level, sample and/or extract description)	Comments
1	Method Blank	1000	1ml		722000	pH=2
2	LCS	↓			↓ 1	
3	LCS D	↓			↓ 2	
4	4187-1 B	70 ml				diluted with 950 D.I. water initial pH=7 changed to 2
5	4852-49 A 4852	970 970				pH=2 RM 8/23/06
6	4852-49 C	970				pH=2
7	BMS-50 C	1000				BMS & BMSD were not spiked
8	BMSD-51 C	980				↓
9	-52 D	900				
10	-53 ↓	980				
11	-54 ↓	1000				
12	-55 D	900				initial pH is 6; changed to 2 with HCl
13	-56 A	980				possibly surrogate 2x
14	4875-3 H	1000				pH=2
15	-4 ↓					
16	-5 ↓					
17	-6 ↓					
18	-7 ↓					
19	-8 ↓					
20	4905-1 A					
21	-2 ↓					
22	-3 ↓					
23						
24						
25						

NOTES:

RM
8/23/06

Section 8.1

Section Contents:SGS Work Order: 1064875

Section : 8 Metal Analyses

	<u>HSN</u>	<u>Client ID</u>
Client Sample	1064875001	06GAM05GS17
Client Sample	1064875001*	06GAM05GS17
Client Sample	1064875002	06GAM05GS18
Client Sample	1064875002*	06GAM05GS18
Client Sample	1064875003	06GAM05GS19
Client Sample	1064875003*	06GAM05GS19
Client Sample	1064875004	06GAM05GS21
Client Sample	1064875004*	06GAM05GS21
Client Sample	1064875005	06GAM05GS22
Client Sample	1064875005*	06GAM05GS22
Client Sample	1064875006	06GAM05GS23
Client Sample	1064875006*	06GAM05GS23
Client Sample	1064875007	06GAM05GS24
Client Sample	1064875007*	06GAM05GS24
Client Sample	1064875008	06GAM05GS25
Client Sample	1064875008*	06GAM05GS25
Client Sample	1064875009	06GAM12SL03Re
Matrix Spike	721866	
Matrix Spike	722053	
Matrix Spike Duplicate	721867	
Matrix Spike Duplicate	722054	
Post Digestion Spike	721868	
Post Digestion Spike	722055	

* Reanalysis

Project Name: 56016 Gambell FUDS Rem Ac				Project No: 05-013							
Field ID: 06GAM05GS17				Sample Date: 08/17/2006				Basis: Not Filtered			
Descr/Location: PWS				Sample Time: 1335				Matrix: Groundwater			
				Lab Samp ID: 1064875001							
Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date	QC Batch	
Arsenic	5.00	10.0 PQL	CI,	ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Barium	0.940	3.00 PQL	CI,B,CI	3.56	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Cadmium	1.00	2.00 PQL	CI,	ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Chromium	1.20	4.00 PQL		5.83	UG/L	5	SW3010A	SW6020	08/30/20	MXX18020	
Lead	0.310	1.00 PQL	CI,	2.83	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Nickel	0.620	2.00 PQL	CI,J	1.49	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Vanadium	6.20	20.0 PQL	CI,	ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
CI: See narrative B: EPA Flag - Analyte present in the blank and the sample J: EPA Flag - Estimated value											

Approved by: _____ Date: _____

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Lab Report No.: 1064875 Date: 09/20/2006

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Project Name: 56016 Gambell FUDS Rem Ac				Project No: 05-013							
Field ID: 06GAM05GS18				Sample Date: 08/16/2006				Basis: Not Filtered			
Descr/Location: MW-31				Sample Time: 1900				Matrix: Groundwater			
				Lab Samp ID: 1064875002							
Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date	QC Batch	
Arsenic	5.00	10.0 PQL	CI,	ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Barium	0.940	3.00 PQL	CI,B,CI	12.3	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Cadmium	1.00	2.00 PQL	CI,	ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Chromium	1.20	4.00 PQL		ND	UG/L	5	SW3010A	SW6020	08/30/20	MXX18020	
Lead	0.310	1.00 PQL	CI,	10.3	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Nickel	0.620	2.00 PQL	CI,	7.36	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Vanadium	6.20	20.0 PQL	CI,	ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
CI: See narrative											
B: EPA Flag - Analyte present in the blank and the sample											

Approved by: _____ Date: _____

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Project Name: 56016 Gambell FUDS Rem Ac				Project No: 05-013							
Field ID: 06GAM05GS19				Sample Date: 08/16/2006				Basis: Not Filtered			
Descr/Location: MW-30				Sample Time: 1230				Matrix: Groundwater			
				Lab Samp ID: 1064875003							
Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date	QC Batch	
Arsenic	5.00	10.0 PQL		ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Barium	0.940	3.00 PQL		ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Cadmium	1.00	2.00 PQL		ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Chromium	1.20	4.00 PQL		ND	UG/L	5	SW3010A	SW6020	08/30/20	MXX18020	
Lead	0.310	1.00 PQL		ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Nickel	0.620	2.00 PQL	J	1.31	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Vanadium	6.20	20.0 PQL		ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
J: EPA Flag - Estimated value											

Approved by: _____ Date: _____

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Project Name: 56016 Gambell FUDS Rem Ac				Project No: 05-013							
Field ID: 06GAM05GS21				Sample Date: 08/16/2006				Basis: Not Filtered			
Descr/Location: MW-30				Sample Time: 1150				Matrix: Groundwater			
				Lab Samp ID: 1064875004							
Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date	QC Batch	
Arsenic	5.00	10.0 PQL		ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Barium	0.940	3.00 PQL		ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Cadmium	1.00	2.00 PQL		ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Chromium	1.20	4.00 PQL		ND	UG/L	5	SW3010A	SW6020	08/30/20	MXX18020	
Lead	0.310	1.00 PQL	J	0.391	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Nickel	0.620	2.00 PQL	J	1.16	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Vanadium	6.20	20.0 PQL		ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
J: EPA Flag - Estimated value											

Approved by: _____ Date: _____

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Lab Report No.: 1064875 Date: 09/20/2006

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Project Name: 56016 Gambell FUDS Rem Ac				Project No: 05-013							
Field ID: 06GAM05GS22				Sample Date: 08/16/2006				Basis: Not Filtered			
Descr/Location: MW-14				Sample Time: 1445				Matrix: Groundwater			
				Lab Samp ID: 1064875005							
Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date	QC Batch	
Arsenic	5.00	10.0 PQL	CI,	ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Barium	0.940	3.00 PQL	CI,B,CI	6.61	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Cadmium	1.00	2.00 PQL	CI,	ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Chromium	1.20	4.00 PQL		4.97	UG/L	5	SW3010A	SW6020	08/30/20	MXX18020	
Lead	0.310	1.00 PQL	CI,J	0.520	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Nickel	0.620	2.00 PQL	CI,J	1.66	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Vanadium	6.20	20.0 PQL	CI,	ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
CI: See narrative B: EPA Flag - Analyte present in the blank and the sample J: EPA Flag - Estimated value											

Approved by: _____ Date: _____

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Project Name: 56016 Gambell FUDS Rem Ac				Project No: 05-013							
Field ID: 06GAM05GS23				Sample Date: 08/16/2006				Basis: Not Filtered			
Descr/Location: MW-15				Sample Time: 1550				Matrix: Groundwater			
				Lab Samp ID: 1064875006							
Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date	QC Batch	
Arsenic	5.00	10.0 PQL	CI,	ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Barium	0.940	3.00 PQL	CI,B,CI	7.55	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Cadmium	1.00	2.00 PQL	CI,	ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Chromium	1.20	4.00 PQL		9.09	UG/L	5	SW3010A	SW6020	08/30/20	MXX18020	
Lead	0.310	1.00 PQL	CI,	ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Nickel	0.620	2.00 PQL	CI,J	1.19	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Vanadium	6.20	20.0 PQL	CI,	ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
CI: See narrative B: EPA Flag - Analyte present in the blank and the sample J: EPA Flag - Estimated value											

Approved by: _____ Date: _____

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Lab Report No.: 1064875 Date: 09/20/2006

Project Name: 56016 Gambell FUDS Rem Ac				Project No: 05-013							
Field ID: 06GAM05GS24				Sample Date: 08/16/2006				Basis: Not Filtered			
Descr/Location: MW-32				Sample Time: 1700				Matrix: Groundwater			
				Lab Samp ID: 1064875007							
Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date	QC Batch	
Arsenic	5.00	10.0 PQL	CI,	ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Barium	0.940	3.00 PQL	CI,B,CI	13.7	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Cadmium	1.00	2.00 PQL	CI,	ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Chromium	1.20	4.00 PQL		6.62	UG/L	5	SW3010A	SW6020	08/30/20	MXX18020	
Lead	0.310	1.00 PQL	CI,J	0.421	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Nickel	0.620	2.00 PQL	CI,	2.11	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Vanadium	6.20	20.0 PQL	CI,	ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
CI: See narrative B: EPA Flag - Analyte present in the blank and the sample J: EPA Flag - Estimated value											

Approved by: _____ Date: _____

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Project Name: 56016 Gambell FUDS Rem Ac				Project No: 05-013							
Field ID: 06GAM05GS25				Sample Date: 08/16/2006				Basis: Not Filtered			
Descr/Location: MW-29				Sample Time: 1830				Matrix: Groundwater			
				Lab Samp ID: 1064875008							
Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date	QC Batch	
Arsenic	5.00	10.0 PQL		ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Barium	0.940	3.00 PQL		19.5	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Cadmium	1.00	2.00 PQL		ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Chromium	1.20	4.00 PQL		7.69	UG/L	5	SW3010A	SW6020	08/30/20	MXX18020	
Lead	0.310	1.00 PQL		ND	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Nickel	0.620	2.00 PQL	J	1.82	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
Vanadium	6.20	20.0 PQL		28.1	UG/L	5	SW3010A	SW6020	08/24/20	MXX18020	
J: EPA Flag - Estimated value											

Approved by: _____ Date: _____

Lab Report No.: 1064875 Date: 09/20/2006

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Project Name: 56016 Gambell FUDS Rem Ac				Project No: 05-013						
Field ID: 06GAM12SL03Re		Sample Date: 08/15/2006		Basis: Dry						
Descr/Location:		Sample Time: 2100		Matrix: Soil						
		Lab Samp ID: 1064875009								
Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date	QC Batch
Lead	0.0624	0.201 PQL		4.63	MG/KG dw	10	SW3050B	SW6020	08/22/20	MX18013

Approved by: _____ Date: _____

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QA/QC Report

Matrix Spike/Duplicate Matrix Spike Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18013 Matrix: Soil Lab Samp ID: 721866 Basis: Dry				Project Name: Lab Generated or Non COE Sample Project No.: Lab Generated or Non COE Sample Field ID: Lab Generated or Non COE Sample Lab Ref ID: 1064196001								
Analyte	Analysis Method	Spike Level		Sample Result	Spike Result		Units	% Recoveries			Acceptance Criteria	
		MS	DMS		MS	DMS		MS	DMS	RPD	% Rec	RPD
Lead	SW6020	53.8	54.2	24.4	68.6	65.2	MG/KG dw	82.2	75.3!	8.8	120-80	MSA 20MEP

QA/QC Report

Matrix Spike/Duplicate Matrix Spike Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020 Matrix: Surface Water Lab Samp ID: 722053 Basis: Not Filtered				Project Name: Lab Generated or Non COE Sample Project No.: Lab Generated or Non COE Sample Field ID: Lab Generated or Non COE Sample Lab Ref ID: 1064819055									
Analyte	Analysis Method	Spike Level		Sample Result	Spike Result		Units	% Recoveries			Acceptance Criteria		
		MS	DMS		MS	DMS		MS	DMS	RPD	% Rec	RPD	
Arsenic	SW6020	1000.	1000.	ND	945.	999.	UG/L	94.5	99.9	5.6	120-80	MSA	15MEP
Barium	SW6020	1000.	1000.	4.53	886.	960.	UG/L	88.1	95.5	8.1	120-80	MSA	15MEP
Cadmium	SW6020	1000.	1000.	ND	944.	1010.	UG/L	94.4	101	6.8	120-80	MSA	15MEP
Chromium	SW6020	1000.	1000.	5.17	894.	941.	UG/L	88.9	93.6	5.2	120-80	MSA	15MEP
Lead	SW6020	999.	999.	ND	882.	945.	UG/L	88.1	94.4	6.9	120-80	MSA	15MEP

QA/QC Report

Matrix Spike/Duplicate Matrix Spike Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18013 Matrix: Soil Lab Samp ID: 721868 Basis: Dry				Project Name: Lab Generated or Non COE Sample Project No.: Lab Generated or Non COE Sample Field ID: Lab Generated or Non COE Sample Lab Ref ID: 1064196001								
Analyte	Analysis Method	Spike Level		Sample Result	Spike Result		Units	% Recoveries			Acceptance Criteria	
		MS	DMS		MS	DMS		MS	DMS	RPD	% Rec	RPD
Lead	SW6020	545.	NA	24.4	497.	NA	MG/KG dw	86.7	NA	NA	125-75	MSA NA

QA/QC Report
Matrix Spike/Duplicate Matrix Spike Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020 Matrix: Surface Water Lab Samp ID: 722055 Basis: Not Filtered	Project Name: Lab Generated or Non COE Sample Project No.: Lab Generated or Non COE Sample Field ID: Lab Generated or Non COE Sample Lab Ref ID: 1064819055
---	--

Analyte	Analysis Method	Spike Level		Sample Result	Spike Result		Units	% Recoveries			Acceptance Criteria		
		MS	DMS		MS	DMS		MS	DMS	RPD	% Rec	MSA	RPD
Arsenic	SW6020	5000.	NA	ND	4710.	NA	UG/L	94.2	NA	NA	125-75	MSA	NA
Barium	SW6020	5000.	NA	4.53	4590.	NA	UG/L	91.7	NA	NA	125-75	MSA	NA
Cadmium	SW6020	5000.	NA	ND	4930.	NA	UG/L	98.6	NA	NA	125-75	MSA	NA
Chromium	SW6020	5000.	NA	5.17	4390.	NA	UG/L	87.7	NA	NA	125-75	MSA	NA
Lead	SW6020	5000.	NA	ND	4380.	NA	UG/L	87.6	NA	NA	125-75	MSA	NA

Section Contents:

SGS Work Order: 1064875

Extraction Batch MXX18013

Analytical Batch: MMS4359 SW6020

Inductively Coupled Plasma-Mass Spectrometry

HSN

Batch Summary Page	
Daily Performance Review	
Method Blank	721864
Laboratory Control Sample	721865
Instrument Blank	722199
Instrument Blank	722202
Instrument Blank	722204
Instrument Blank	722206
Instrument Blank	722208
Initial Calibration Check Sample	722197
Initial Calibration Check Sample	722198
Calibration Check Sample	722201
Calibration Check Sample	722203
Calibration Check Sample	722205
Calibration Check Sample	722207
Horizon Run Log	
Instrument Run Log	
Extraction Log	

* Reanalysis

Section Contents:

SGS Work Order: 1064875

Extraction Batch MXX18020

Analytical Batch: MMS4365 SW6020

Inductively Coupled Plasma-Mass Spectrometry

HSN

Batch Summary Page
Daily Performance Review
Method Blank 722051
Laboratory Control Sample 722052
Instrument Blank 722880
Instrument Blank 722882
Instrument Blank 722884
Instrument Blank 722886
Initial Calibration Check Sample 722864
Initial Calibration Check Sample 722865
Calibration Check Sample 722879
Calibration Check Sample 722881
Calibration Check Sample 722883
Calibration Check Sample 722885
Horizon Run Log
Instrument Run Log
Extraction Log

Analytical Batch: MMS4379 SW6020

Inductively Coupled Plasma-Mass Spectrometry

HSN

Batch Summary Page
Daily Performance Review
Instrument Blank 724219
Instrument Blank 724227
Instrument Blank 724229
Initial Calibration Check Sample 724216
Initial Calibration Check Sample 724217
Calibration Check Sample 724226
Calibration Check Sample 724228
Horizon Run Log
Instrument Run Log
Extraction Log

* Reanalysis

SGS Environmental, Inc.

Analytical Quality Control Summary Data

Work Order(s): ^{III} 1064196, ^{IV} 1064575, ^{IV} 1064717, 1064754,
 1064758, 1064804, ^{IV} 1064875

Queue: MMS Batch: 4359
 Method: SW6020, SW6020 Diss.

Run Date: 08/22/06 15:10 - 08/22/06 20:59

Extraction Batch(es): MXX17996, MXX18013

QC Parameter	Goals Met?		
Calibration:	<input checked="" type="checkbox"/>	N	N/A
Instrument/Method Blank:	<input checked="" type="checkbox"/>	N	N/A
Initial/Continuing Calibration Verifications:	<input checked="" type="checkbox"/>	N	N/A
Laboratory Control Sample:	<input checked="" type="checkbox"/>	N	N/A
Laboratory Control Sample Duplicate:	Y	N	N/A
Relative Percent Difference:	Y	N	N/A
Sample Duplicate:	Y	N	N/A
Matrix Spike:	Y	N	N/A
Matrix Spike Duplicate:	Y	N	N/A
Relative Percent Difference:	Y	N	N/A
Surrogates:	Y	N	N/A
Sample Holding Time:	Y	N	N/A
Internal Standards	<input checked="" type="checkbox"/>	N	N/A
GCMS Tuner/DDT Sample	<input checked="" type="checkbox"/>	N	N/A

See case narrative/sample comments for further information :

Additional Notes:

MB read 1/2 PQL. Samples RR.
 CB read cr. 4196-1 cr is 10x > EB

Is there any further action necessary for any out of control events described above? Y

N
 Y

Should a Corrective Action be initiated? Y

I certify that except as specifically noted in this report, all statements and data appearing in this report are in conformance with the provisions of the Quality Assurance Plan (QAP) prepared by this firm and on file with the Alaska Department of Environmental Conservation.

Analyst's Signature: [Signature]

Reviewer's Signature: [Signature]

Date: 8/22/06

Date: 8/24/06

Instrument Tuning Report

File Name: default.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.025	604	2067	0.678	
Mg	23.985	23.978	5737	2004	0.695	
Co	58.933	58.929	14321	1919	0.688	
Rh	102.905	102.929	25089	1872	0.675	
Ce	139.905	139.928	34066	1924	0.663	
Pb	207.977	207.975	50491	2190	0.649	

SGS DAILY PERFORMANCE REPORT

ELAN 6100 ICP-MS P3

Sample ID: Sample

Sample Date/Time: Tuesday, August 22, 2006 11:46:09

Method File: c:\elandata\Method\CT&E Daily.mth

Dataset File: c:\elandata\Dataset\daily performance\Sample.2521

Tuning File: c:\elandata\Tuning\default.tun

Optimization File: c:\elandata\Optimize\default.dac

Dual Detector Mode: Dual

Acq. Dead Time(ns): 35

Current Dead Time (ns): 35

Summary

Analyte	Mass	Meas. Intens.	Mean	Net Intens.	Mean	Net Intens.	SD	Net Intens.	RSD
Mg	24.0		44711.8		44711.797		349.141		0.8
Rh	102.9		297367.2		297367.183		2989.593		1.0
In	114.9		362051.1		362051.096		3165.653		0.9
Pb	208.0		236578.0		236578.008		1236.800		0.5
[> Ba	137.9		352471.4		352471.401		1746.897		0.5
[Ba++	69.0		8859.3		0.025		0.001		4.1
[> Ce	139.9		391845.8		391845.808		2969.126		0.8
[CeO	155.9		10497.5		0.027		0.000		1.1
Bkgd	220.0		10.7		10.700		1.249		11.7

Current Optimization File Data

Current Value	Description
0.88	Nebulizer Gas Flow
7.25	Lens Voltage
1100.00	ICP RF Power
-2225.00	Analog Stage Voltage
1300.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-7.00	AC Rod Offset
60.00	Service DAC 1
0.00	Quadrupole Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	45	6.3	2948.6
Co	59	45	7.3	63210.9
In	115	45	8.5	217813.9
U	238	45	10.5	433461.8

QA/QC Report Method Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 54

QC Batch: MXX18013 Matrix: Soil/Solid QC Lab Samp ID: 721864									
Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Lead	0.0620	0.200 PQL		ND	MG/KG	10	SW3050B	SW6020	08/22/20

QA/QC Report
Blank Spike/Duplicate Blank Spike Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 62

QC Batch: MXX18013 Matrix: Soil/Solid QC Lab Samp ID: 721865													
Analyte	Analysis Method	Spike Level		Spike Result		Units		% Recoveries			Acceptance Criteria		
		LCS	LCD	LCS	LCD			LCS	LCD	RPD	%Rec	RPD	
Lead	SW6020	50.	NA	44.0	NA	MG/KG	dw	88.0	NA	NA	120-80	MEA	NA

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 55

QC Batch: MXX18013 Matrix: Water QC Lab Samp ID: 722199									
Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Lead	0.0001	0.0002PQL		ND	MG/L	1	NONE	SW6020	08/22/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18013
Matrix: Water QC
Lab Samp ID: 722202

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Lead	0.0001	0.0002PQL		ND	MG/L	1	NONE	SW6020	08/22/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18013
Matrix: Water QC
Lab Samp ID: 722204

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Lead	0.0001	0.0002PQL		ND	MG/L	1	NONE	SW6020	08/22/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18013
Matrix: Water QC
Lab Samp ID: 722206

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Lead	0.0001	0.0002PQL		ND	MG/L	1	NONE	SW6020	08/22/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18013
Matrix: Water QC
Lab Samp ID: 722208

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Lead	0.0001	0.0002PQL		ND	MG/L	1	NONE	SW6020	08/22/20

QA/QC Report
Initial Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18013 Matrix: Water QC Lab Samp ID: 722197						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Lead	SW6020	0.1	0.101	MG/L	101	110-90 MEIC

QA/QC Report
Initial Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18013 Matrix: Water QC Lab Samp ID: 722198						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Lead	SW6020	0.075	0.0741	MG/L	98.8	110-90 MEIC

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18013 Matrix: Water QC Lab Samp ID: 722201						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Lead	SW6020	0.1	0.0991	MG/L	99.1	110-90 MECC

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18013 Matrix: Water QC Lab Samp ID: 722203						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Lead	SW6020	0.1	0.100	MG/L	100	110-90 MECC

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18013 Matrix: Water QC Lab Samp ID: 722205						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Lead	SW6020	0.1	0.102	MG/L	102	110-90 MECC

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18013 Matrix: Water QC Lab Samp ID: 722207						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Lead	SW6020	0.1	0.104	MG/L	104	110-90 MECC

SGS Alaska Division Peer Review Report - Horizon Run Log

Queue: MMS Batch: 4359 Create User: SCL Run Date: 08/22/06 Printed: 23-Aug-06

Project	HSN	Type	Sample ID	CC Bottle Number	Matrix	Inst	Run Date/Time	Bench Dilution	Prep Batch	Seq
			722197 ICV	OK	1	P3	08/22/06 15:10	1		1
			722198 QCS	OK	1	P3	08/22/06 15:16	1		2
			722199 CB	OK	1	P3	08/22/06 15:28	1		3
			722200 AgQC	OK	1	P3	08/22/06 15:35	1		4
			720710 MB	RR	1	P3	08/22/06 16:05	5	17996MXX	5
			720711 LCS	RR	1	P3	08/22/06 16:10	5	17996MXX	6
1064717	1064717006	PS	06LF005-SW102	RR 1064717006-D	1	P3	08/22/06 16:15	5	17996MXX	7
1064875	1064875009	PS	06GAM12SL03Re	OK 1064875009-A	2	P3	08/22/06 16:45	10	18013MXX	8
1064758	1064758009	PS	06BM-SS009-ST01	OK 1064758009-A	7	P3	08/22/06 16:51	20	18013MXX	9
			722201 CCV	OK	1	P3	08/22/06 17:06	1		10
			722202 CB	OK	1	P3	08/22/06 17:12	1		11
			720712 MS	RR	1	P3	08/22/06 17:19	5	17996MXX	12
			720713 MSD	RR	1	P3	08/22/06 17:24	5	17996MXX	13
			720714 BND	RR	1	P3	08/22/06 17:29	5	17996MXX	14
1064717	1064717001	PS	06LF005-SW01	RR 1064717001-D	1	P3	08/22/06 17:39	5	17996MXX	15
1064717	1064717002	PS	06LF005-SW02	RR 1064717002-D	1	P3	08/22/06 17:45	5	17996MXX	16
1064717	1064717003	PS	06LF005-SW03	RR 1064717003-D	1	P3	08/22/06 17:50	5	17996MXX	17
1064717	1064717004	PS	06LF005-SW04	RR 1064717004-D	1	P3	08/22/06 17:55	5	17996MXX	18
1064717	1064717005	PS	06LF005-SW05	RR 1064717005-D	1	P3	08/22/06 18:00	5	17996MXX	19
1064717	1064717010	PS	Purge Water	RR 1064717010-G	1	P3	08/22/06 18:05	5	17996MXX	20
			722203 CCV	OK	1	P3	08/22/06 18:11	1		21
			722204 CB	OK	1	P3	08/22/06 18:22	1		22
1064575	1064575003	PS	JE06CB-UST1-00OT02-W	RR 1064575003-D	1	P3	08/22/06 18:29	10	17996MXX	23
1064575	1064575005	PS	JE06CB-UST2-00OT01-W	RR 1064575005-D	1	P3	08/22/06 18:34	10	17996MXX	24
1064575	1064575007	PS	JE06CB-UST2-00OT02-W	RR 1064575007-D	1	P3	08/22/06 18:39	10	17996MXX	25
			721864 MB	OK	2	P3	08/22/06 18:44	10	18013MXX	26
			721865 LCS	OK	2	P3	08/22/06 18:50	10	18013MXX	27
1064196	1064196001	PS	06FTW-SS-4-4	OK 1064196001-B	2	P3	08/22/06 18:55	10	18013MXX	28
			721866 MS	OK	2	P3	08/22/06 19:00	10	18013MXX	29
			721867 MSD	OK	2	P3	08/22/06 19:05	10	18013MXX	30
			721868 BND	OK	2	P3	08/22/06 19:10	10	18013MXX	31
			722205 CCV	OK	1	P3	08/22/06 19:21	1		32
			722206 CB	OK	1	P3	08/22/06 19:33	1		33
			721869 DUP	OK	2	P3	08/22/06 19:39	10	18013MXX	34
1064196	1064196002	PS	06FTW-SS-4-1	RR 1064196002-B	2	P3	08/22/06 19:44	10	18013MXX	35
1064196	1064196003	PS	06FTW-SS-4-3	OK 1064196003-B	2	P3	08/22/06 19:50	10	18013MXX	36
1064196	1064196004	PS	06FTW-SS-5-3	OK 1064196004-B	2	P3	08/22/06 19:55	10	18013MXX	37
1064196	1064196005	PS	06FTW-SS-5-1	OK 1064196005-B	2	P3	08/22/06 20:00	10	18013MXX	38
1064196	1064196006	PS	06FTW-SS-5-2	OK 1064196006-B	2	P3	08/22/06 20:05	10	18013MXX	39
1064754	1064754018	PS	BSA03SS01	OK 1064754018-C	2	P3	08/22/06 20:10	10	18013MXX	40
1064754	1064754019	PS	BSA03SS02	OK 1064754019-C	2	P3	08/22/06 20:15	10	18013MXX	41
1064754	1064754021	PS	BSA03SS03	OK 1064754021-C	2	P3	08/22/06 20:21	10	18013MXX	42

SGS Alaska Division Peer Review Report - Horizon Run Log

Queue: MMS Batch: 4359 Create User: SCL Run Date: 08/22/06 Printed: 23-Aug-06

Project	HSN	Type	Sample ID	CC	Bottle Number	Matrix	Inst	Run Date/Time	Bench Dilution	Prep Batch	Seq
1064754	1064754022	PS	BSA03SS04	OK	1064754022-C	2	P3	08/22/06 20:26	10	18013MXX	43
	722207	CCV		OK		1	P3	08/22/06 20:31	1		44
	722208	CB		OK		1	P3	08/22/06 20:37	1		45
1064754	1064754025	PS	BSA03SS05	OK	1064754025-C	2	P3	08/22/06 20:43	10	18013MXX	46
1064804	1064804001	PS	B5A0SS06	OK	1064804001-C	2	P3	08/22/06 20:48	10	18013MXX	47
	722209	CCV		OK		1	P3	08/22/06 20:54	1		48
	722210	CB		OK		1	P3	08/22/06 20:59	1		49

SGS ALASKA

ICP-MS SUMMARY P3

USER: Su Chin Li W. user
 Computer Name: ICPMS3
 Dataset File Path: C:\elandata\Dataset\08.22.2006p3a\
 Report Date/Time: Wednesday, August 23, 2006 10:25:19

The Dataset

Sample ID	Date and Time	Description	Read Type	Diluted Vol.
Blank	14:43:24 Tue 22-Aug-06		Blank	
Standard 1	14:47:44 Tue 22-Aug-06		Standard #1	
Standard 2	14:52:04 Tue 22-Aug-06		Standard #2	
Standard 3	14:56:25 Tue 22-Aug-06		Standard #3	
Standard 4	15:00:46 Tue 22-Aug-06		Standard #4	
Standard 5	15:06:30 Tue 22-Aug-06		Standard #5	
QC Std 1	15:10:54 Tue 22-Aug-06		QC Std #1	
QC Std 2	15:16:38 Tue 22-Aug-06		QC Std #2	
QC Std 3	15:22:19 Tue 22-Aug-06		QC Std #3	
QC Std 3	15:28:28 Tue 22-Aug-06		QC Std #3	
QC Std 4	15:35:10 Tue 22-Aug-06		QC Std #4	
QC Std 6	15:41:02 Tue 22-Aug-06		QC Std #6	
QC Std 7	15:46:50 Tue 22-Aug-06		QC Std #7	
	15:52:24 Tue 22-Aug-06		Sample	1.000
QC Std 1	15:57:33 Tue 22-Aug-06		QC Std #1	
720710	16:05:14 Tue 22-Aug-06		Sample	5.000
720711	16:10:24 Tue 22-Aug-06		Sample	5.000
1064717006	16:15:34 Tue 22-Aug-06		Sample	5.000
1064758009	16:24:28 Tue 22-Aug-06		Sample	400.000
1064875009	16:45:56 Tue 22-Aug-06		Sample	10.000
1064875009	16:51:06 Tue 22-Aug-06		Spike - 4	20.000
QC Std 1	17:06:40 Tue 22-Aug-06		QC Std #1	
QC Std 3	17:12:21 Tue 22-Aug-06		QC Std #3	
1064717006	17:19:01 Tue 22-Aug-06		Sample	5.000
1064717006	17:24:13 Tue 22-Aug-06		Sample	5.000
1064717006	17:29:25 Tue 22-Aug-06		Sample	5.000
1064717006	17:34:37 Tue 22-Aug-06		Sample	5.000
1064717001	17:39:50 Tue 22-Aug-06		Sample	5.000
1064717002	17:45:03 Tue 22-Aug-06		Sample	5.000
1064717003	17:50:17 Tue 22-Aug-06		Sample	5.000
1064717004	17:55:31 Tue 22-Aug-06		Sample	5.000
1064717005	18:00:45 Tue 22-Aug-06		Sample	5.000
1064717010	18:05:55 Tue 22-Aug-06		Sample	5.000
QC Std 1	18:11:05 Tue 22-Aug-06		QC Std #1	
QC Std 3	18:16:47 Tue 22-Aug-06		QC Std #3	
QC Std 3	18:22:56 Tue 22-Aug-06		QC Std #3	

1064575003	18:29:35 Tue 22-Aug-06	Sample	10.000
1064575005	18:34:43 Tue 22-Aug-06	Sample	10.000
1064575007	18:39:50 Tue 22-Aug-06	Sample	10.000
721864	18:44:59 Tue 22-Aug-06	Sample	10.000
721865	18:50:07 Tue 22-Aug-06	Sample	10.000
1064196001	18:55:18 Tue 22-Aug-06	Sample	10.000
1064196001	19:00:27 Tue 22-Aug-06	Sample	10.000
1064196001	19:05:38 Tue 22-Aug-06	Sample	10.000
1064196001	19:10:48 Tue 22-Aug-06	Sample	10.000
1064196001	19:16:00 Tue 22-Aug-06	Sample	10.000
QC Std 1	19:21:13 Tue 22-Aug-06	QC Std #1	
QC Std 3	19:26:55 Tue 22-Aug-06	QC Std #3	
QC Std 3	19:33:04 Tue 22-Aug-06	QC Std #3	
721869	19:39:45 Tue 22-Aug-06	Sample	10.000
1064196002	19:44:58 Tue 22-Aug-06	Sample	10.000
1064196003	19:50:10 Tue 22-Aug-06	Sample	10.000
1064196004	19:55:23 Tue 22-Aug-06	Sample	10.000
1064196005	20:00:33 Tue 22-Aug-06	Sample	10.000
1064196006	20:05:40 Tue 22-Aug-06	Sample	10.000
1064754018	20:10:47 Tue 22-Aug-06	Sample	10.000
1064754019	20:15:55 Tue 22-Aug-06	Sample	10.000
1064754021	20:21:04 Tue 22-Aug-06	Sample	10.000
1064754022	20:26:12 Tue 22-Aug-06	Sample	10.000
QC Std 1	20:31:22 Tue 22-Aug-06	QC Std #1	
QC Std 3	20:37:04 Tue 22-Aug-06	QC Std #3	
1065754025	20:43:44 Tue 22-Aug-06	Sample	10.000
1064804001	20:48:54 Tue 22-Aug-06	Sample	10.000
QC Std 1	20:54:06 Tue 22-Aug-06	QC Std #1	
QC Std 3	20:59:48 Tue 22-Aug-06	QC Std #3	

SGS

Method:

Run Date:

6020

8/2/06

Analyst:

File ID:

Queue/Batch:

ICP MS Run Log

8/2/06/239

4359

89107.2a68

#	Sample ID	Prep Batch	Bench Dilution	Analytes	Comments	STATUS		
	BK	Z		Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr				
	SP21			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr				
	2			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr				
	3			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr				
	4			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr				
	5			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr				
	IN	Z		Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr				
	QUS			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	B. Low			
	CB			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	TI			
	CB			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr				
	AGOL			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	109 out			
	ICSA	Z		Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr				
	RB			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	K ⁵ cons			
	Rose			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr				
	IN			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	Low			
	720710MR			5		Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	CF 2/3 POLY	
	11US	Z		Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr				
	4717-6			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	OK			
	4758-9			200		Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	485-9			10		Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	4758-9			20		Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	metal shaving	
	IN	Z		Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	V. Fe out			
	CB			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr				
	4717-6ms			5		Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	LOW	
	6ms					Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	6BND					Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	607	25		Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr				

Daily Checks:

- Windings
- Optimization
- Tuning
- Sample Flow
- Dispenser Calib.
- Waste

Standards	Date	Log # / LIMS #	Standards	Date	Log # / LIMS #
ICV/CVS	237.39D, 41H, 277		ICSA	P42-22	
QC	10D, 240		RB	46.45	
Ag QC	71-96P				
INTERNAL	237-48A				
	BND 38				

SGS ALASKA

ICP-MS SUMMARY P3

USER: Su Chin Li W. user
 Computer Name: ICPMS3
 Dataset File Path: C:\elandata\Dataset\08.22.2006p3a\
 Report Date/Time: Wednesday, August 23, 2006 10:25:19

The Dataset

Sample ID	Date and Time	Description	Read Type	Diluted Vol.
Blank	14:43:24 Tue 22-Aug-06		Blank	
Standard 1	14:47:44 Tue 22-Aug-06		Standard #1	
Standard 2	14:52:04 Tue 22-Aug-06		Standard #2	
Standard 3	14:56:25 Tue 22-Aug-06		Standard #3	
Standard 4	15:00:46 Tue 22-Aug-06		Standard #4	
Standard 5	15:06:30 Tue 22-Aug-06		Standard #5	
QC Std 1	15:10:54 Tue 22-Aug-06		QC Std #1	
QC Std 2	15:16:38 Tue 22-Aug-06		QC Std #2	
QC Std 3	15:22:19 Tue 22-Aug-06		QC Std #3	
QC Std 3	15:28:28 Tue 22-Aug-06		QC Std #3	
QC Std 4	15:35:10 Tue 22-Aug-06		QC Std #4	
QC Std 6	15:41:02 Tue 22-Aug-06		QC Std #6	
QC Std 7	15:46:50 Tue 22-Aug-06		QC Std #7	
	15:52:24 Tue 22-Aug-06		Sample	1.000
QC Std 1	15:57:33 Tue 22-Aug-06		QC Std #1	
720710	16:05:14 Tue 22-Aug-06		Sample	5.000
720711	16:10:24 Tue 22-Aug-06		Sample	5.000
1064717006	16:15:34 Tue 22-Aug-06		Sample	5.000
1064758009	16:24:28 Tue 22-Aug-06		Sample	400.000
1064875009	16:45:56 Tue 22-Aug-06		Sample	10.000
1064875009	16:51:06 Tue 22-Aug-06		Spike - 4	20.000
QC Std 1	17:06:40 Tue 22-Aug-06		QC Std #1	
QC Std 3	17:12:21 Tue 22-Aug-06		QC Std #3	
1064717006	17:19:01 Tue 22-Aug-06		Sample	5.000
1064717006	17:24:13 Tue 22-Aug-06		Sample	5.000
1064717006	17:29:25 Tue 22-Aug-06		Sample	5.000
1064717006	17:34:37 Tue 22-Aug-06		Sample	5.000
1064717001	17:39:50 Tue 22-Aug-06		Sample	5.000
1064717002	17:45:03 Tue 22-Aug-06		Sample	5.000
1064717003	17:50:17 Tue 22-Aug-06		Sample	5.000
1064717004	17:55:31 Tue 22-Aug-06		Sample	5.000
1064717005	18:00:45 Tue 22-Aug-06		Sample	5.000
1064717010	18:05:55 Tue 22-Aug-06		Sample	5.000
QC Std 1	18:11:05 Tue 22-Aug-06		QC Std #1	
QC Std 3	18:16:47 Tue 22-Aug-06		QC Std #3	
QC Std 3	18:22:56 Tue 22-Aug-06		QC Std #3	

1064575003	18:29:35 Tue 22-Aug-06	Sample	10.000
1064575005	18:34:43 Tue 22-Aug-06	Sample	10.000
1064575007	18:39:50 Tue 22-Aug-06	Sample	10.000
721864	18:44:59 Tue 22-Aug-06	Sample	10.000
721865	18:50:07 Tue 22-Aug-06	Sample	10.000
1064196001	18:55:18 Tue 22-Aug-06	Sample	10.000
1064196001	19:00:27 Tue 22-Aug-06	Sample	10.000
1064196001	19:05:38 Tue 22-Aug-06	Sample	10.000
1064196001	19:10:48 Tue 22-Aug-06	Sample	10.000
1064196001	19:16:00 Tue 22-Aug-06	Sample	10.000
QC Std 1	19:21:13 Tue 22-Aug-06	QC Std #1	
QC Std 3	19:26:55 Tue 22-Aug-06	QC Std #3	
QC Std 3	19:33:04 Tue 22-Aug-06	QC Std #3	
721869	19:39:45 Tue 22-Aug-06	Sample	10.000
1064196002	19:44:58 Tue 22-Aug-06	Sample	10.000
1064196003	19:50:10 Tue 22-Aug-06	Sample	10.000
1064196004	19:55:23 Tue 22-Aug-06	Sample	10.000
1064196005	20:00:33 Tue 22-Aug-06	Sample	10.000
1064196006	20:05:40 Tue 22-Aug-06	Sample	10.000
1064754018	20:10:47 Tue 22-Aug-06	Sample	10.000
1064754019	20:15:55 Tue 22-Aug-06	Sample	10.000
1064754021	20:21:04 Tue 22-Aug-06	Sample	10.000
1064754022	20:26:12 Tue 22-Aug-06	Sample	10.000
QC Std 1	20:31:22 Tue 22-Aug-06	QC Std #1	
QC Std 3	20:37:04 Tue 22-Aug-06	QC Std #3	
1065754025	20:43:44 Tue 22-Aug-06	Sample	10.000
1064804001	20:48:54 Tue 22-Aug-06	Sample	10.000
QC Std 1	20:54:06 Tue 22-Aug-06	QC Std #1	
QC Std 3	20:59:48 Tue 22-Aug-06	QC Std #3	

#	Sample ID	Prep Batch	Bench Dilution	Analytes	Comments	STATUS
	47171		5	Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	[Redacted]	
	2			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	[Redacted]	
	3			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	[Redacted]	
	4			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	[Redacted]	
	5			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	[Redacted]	
	10			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	[Redacted]	
	UN			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	cb			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	1.39	
	cb			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	cr read	
	4575-3			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	[Redacted]	
	5			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	[Redacted]	
	7			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	[Redacted]	
	721864		✓	Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	721864MB		10	Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	65LCS			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	4196-1			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	cr 505 10x7LB	
	-1MS			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	-MSD			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	-1BMD			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	-1DT			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	UN			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	cb			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	721869			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	4196-2			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	[Redacted]	
	3			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	4			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	5			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		

Daily Checks:

- Windings
- Optimization
- Tuning
- Sample Flow
- Dispenser Calib.
- Waste

Standards	Date	Log # / LIMS #	Standards	Date	Log # / LIMS #
ICV/CVS					
QC					
Ag QC					
INTERNAL					



Metals Preparations Log

Prep Method: 3050 / 16020

Analyst: Curtis / Sarah

Prep Date: 8-21-06

Queue / Batch: MXX / 18013

Sample #	Lab Filtered	pH < 2	Initial Vol (mL)	Initial Wt. (g)	Final Vol (mL)	Comments
MB					50	HSN#
LCS						721864
4196-1B				1.0235		721865
-1MS				1.0348		
-1MSD				1.0288		
-1DUP				1.0282		
-2B				1.0305		
-3B				1.0499		
-4B				1.0288		
-5B				1.0061		
-6B				1.0091		
4754-18C				1.0450		
-19C				1.0236		
-21C				1.0458		
-22C				1.0408		
-25C				1.0101		
4758-9A				0.1008		Metal Shavings
4804-1C				1.0107		
4875-9A				1.0410		
						SMD
						8-22-06

Spike Soln Lot #: 0159-84 / P-4-15 Spike Amount (mL): 1.0 / 0.5
 HN03 Lot #: C16038 Temp. Check (C°): 95°C
 HCL Lot #: L504-0168-6 H2O2 Lot #: 4515-45177532
 Vessel Lot #: CND75CLD3 SMD 8-22-06

Comments:

SGS Environmental, Inc.

Analytical Quality Control Summary Data

Work Order(s): ^{III} 1064191, ^{III} 1064575, ^{III} 1064647, ^{III} 1064648, ^{IV} 1064717, ^{III} 1064819, 1064875, 1064878

Queue: MMS Batch: 4365
Method: SW6020, SW6020 Diss.

Run Date: 08/24/06 13:13 - 08/24/06 22:40

Extraction Batch(es): MXX17923, MXX17996, MXX18014, MXX18020

1064575 → MMS4359
1064717 →

QC Parameter	Goals Met?		
Calibration:	(Y)	N	N/A
Instrument/Method Blank:	(Y)	N	N/A
Initial/Continuing Calibration Verifications:	(Y)	N	N/A
Laboratory Control Sample:	(Y)	N	N/A
Laboratory Control Sample Duplicate:	Y	N	N/A
Relative Percent Difference:	Y	N	N/A
Sample Duplicate:	Y	N	N/A
Matrix Spike:	(Y)	(N)	N/A
Matrix Spike Duplicate:	(Y)	(N)	N/A
Relative Percent Difference:	Y	N	N/A
Surrogates:	Y	N	N/A
Sample Holding Time:	Y	N	N/A
Internal Standards	(Y)	N	N/A
GCMS Tuner/DDT Sample	(Y)	N	N/A

See case narrative/sample comments for further information:

Additional Notes:

ISAB V = 729° RR
Ct = 679° RR 10648-1, 2, 3 (BMS/BAND)
RR 1875 all cr

Is there any further action necessary for any out of control events described above? Y (N)
Should a Corrective Action be initiated? Y (N)

I certify that except as specifically noted in this report, all statements and data appearing in this report are in conformance with the provisions of the Quality Assurance Plan (QAP) prepared by this firm and on file with the Alaska Department of Environmental Conservation.

Analyst's Signature: [Signature] Reviewer's Signature: [Signature]
Date: 8/28/06 Date: 8/31/06

Instrument Tuning Report

File Name: default.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.027✓	607	2067	0.674	
Mg	23.985	23.978✓	5733	2004	0.702	
Co	58.933	58.979✓	14330	1919	0.681	
Rh	102.905	102.878✓	25075	1872	0.675✓	
Ce	139.905	139.879✓	34064	1924	0.671	
Pb	207.977	207.977✓	50490	2190	0.657	

SGS DAILY PERFORMANCE REPORT

ELAN 6100 ICP-MS P3

Sample ID: Sample

Sample Date/Time: Thursday, August 24, 2006 12:15:36
 Method File: c:\elandata\Method\CT&E Daily.mth
 Dataset File: c:\elandata\Dataset\daily performance\Sample.2523
 Tuning File: c:\elandata\Tuning\default.tun
 Optimization File: c:\elandata\Optimize\default.dac
 Dual Detector Mode: Dual
 Acq. Dead Time(ns): 35
 Current Dead Time (ns): 35

Summary

Analyte	Mass	Meas. Intens.	Mean	Net Intens.	Mean	Net Intens.	SD	Net Intens.	RSD
Mg	24.0	41165.6	✓	41165.628	283.962	0.7			
Rh	102.9	285034.5	✓	285034.530	1405.218	0.5			
In	114.9	342250.0		342250.028	1017.482	0.3			
Pb	208.0	214467.6	✓	214467.565	876.831	0.4			
[> Ba	137.9	602497.5		602497.523	15146.294	2.5			
[Ba++	69.0	11209.8	~	0.019	✓	0.000	2.0		
[> Ce	139.9	369227.2		369227.184	871.992	0.2			
[CeO	155.9	9388.9		0.025	✓	0.000	0.8		
Bkgd	220.0	9.8	✓	9.800	0.740	7.5			

Current Optimization File Data

Current Value	Description
0.88	Nebulizer Gas Flow
7.25	Lens Voltage
1100.00	ICP RF Power
-2225.00	Analog Stage Voltage
1300.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-7.00	AC Rod Offset
60.00	Service DAC 1
0.00	Quadrupole Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	45	6.3	2948.6
Co	59	45	7.3	63210.9
In	115	45	8.5	217813.9
U	238	45	10.5	433461.8

QA/QC Report Method Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 65

QC Batch: MXX18020
Matrix: Water QC
Lab Samp ID: 722051

Analyte	Detection Limit		Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
	Limit	Limit								
Barium	0.940	3.00	PQL	,J,Cl	1.58	UG/L	5	SW3010A	SW6020	08/24/20
Lead	0.310	1.00	PQL	,J	0.391	UG/L	5	SW3010A	SW6020	08/24/20
Arsenic	5.00	10.0	PQL	,	ND	UG/L	5	SW3010A	SW6020	08/24/20
Cadmium	1.00	2.00	PQL	,	ND	UG/L	5	SW3010A	SW6020	08/24/20
Chromium	1.20	4.00	PQL	,	ND	UG/L	5	SW3010A	SW6020	08/24/20
Nickel	0.620	2.00	PQL	,	ND	UG/L	5	SW3010A	SW6020	08/24/20
Vanadium	6.20	20.0	PQL	,	ND	UG/L	5	SW3010A	SW6020	08/24/20

Cl: See narrative
J: EPA Flag - Estimated value

QA/QC Report
Blank Spike/Duplicate Blank Spike Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 99

QC Batch: MXX18020 Matrix: Water QC Lab Samp ID: 722052												
Analyte	Analysis Method	Spike Level		Spike Result		Units	% Recoveries			Acceptance Criteria		
		LCS	LCD	LCS	LCD		LCS	LCD	RPD	%Rec	RPD	
Arsenic	SW6020	1000.	NA	1050.	NA	UG/L	105	NA	NA	120-80	MEA	NA
Barium	SW6020	1000.	NA	1000.	NA	UG/L	100	NA	NA	120-80	MEA	NA
Cadmium	SW6020	1000.	NA	1080.	NA	UG/L	108	NA	NA	120-80	MEA	NA
Chromium	SW6020	1000.	NA	1030.	NA	UG/L	103	NA	NA	120-80	MEA	NA
Lead	SW6020	1000.	NA	1000.	NA	UG/L	100	NA	NA	120-80	MEA	NA
Nickel	SW6020	1000.	NA	1060.	NA	UG/L	106	NA	NA	120-80	MEA	NA
Vanadium	SW6020	1000.	NA	1040.	NA	UG/L	104	NA	NA	120-80	MEA	NA

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 66

QC Batch: MXX18020 Matrix: Water QC Lab Samp ID: 722880										
Analyte	Detection Limit	Reporting Limit	PQL	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Arsenic	1.00	2.00	PQL	J	1.51	UG/L	1	NONE	SW6020	08/24/20
J: EPA Flag - Estimated value										

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 70

QC Batch: MXX18020 Matrix: Water QC Lab Samp ID: 722880									
Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Barium	0.188	0.600 PQL		ND	UG/L	1	NONE	SW6020	08/24/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 74

QC Batch: MXX18020 Matrix: Water QC Lab Samp ID: 722880									
Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Cadmium	0.200	0.400 PQL		ND	UG/L	1	NONE	SW6020	08/24/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 78

QC Batch: MXX18020
Matrix: Water QC
Lab Samp ID: 722880

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Chromium	0.240	0.800 PQL		ND	UG/L	1	NONE	SW6020	08/24/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 85

QC Batch: MXX18020
Matrix: Water QC
Lab Samp ID: 722880

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Lead	0.0620	0.200 PQL		ND	UG/L	1	NONE	SW6020	08/24/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 89

QC Batch: MXX18020
Matrix: Water QC
Lab Samp ID: 722880

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Nickel	0.124	0.400 PQL		ND	UG/L	1	NONE	SW6020	08/24/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020
Matrix: Water QC
Lab Samp ID: 722880

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Vanadium	1.24	4.00 PQL		ND	UG/L	1	NONE	SW6020	08/24/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 67

QC Batch: MXX18020
Matrix: Water QC
Lab Samp ID: 722882

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Arsenic	1.00	2.00 PQL		ND	UG/L	1	NONE	SW6020	08/24/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020
Matrix: Water QC
Lab Samp ID: 722882

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Barium	0.188	0.600 PQL		ND	UG/L	1	NONE	SW6020	08/24/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020
Matrix: Water QC
Lab Samp ID: 722882

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Cadmium	0.200	0.400 PQL		ND	UG/L	1	NONE	SW6020	08/24/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020
Matrix: Water QC
Lab Samp ID: 722882

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Chromium	0.240	0.800 PQL		ND	UG/L	1	NONE	SW6020	08/24/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020
Matrix: Water QC
Lab Samp ID: 722882

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Lead	0.0620	0.200 PQL		ND	UG/L	1	NONE	SW6020	08/24/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020
Matrix: Water QC
Lab Samp ID: 722882

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Nickel	0.124	0.400 PQL		ND	UG/L	1	NONE	SW6020	08/24/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020
Matrix: Water QC
Lab Samp ID: 722882

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Vanadium	1.24	4.00 PQL		ND	UG/L	1	NONE	SW6020	08/24/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020
Matrix: Water QC
Lab Samp ID: 722884

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Arsenic	1.00	2.00 PQL		ND	UG/L	1	NONE	SW6020	08/24/20

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QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020
Matrix: Water QC
Lab Samp ID: 722884

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Barium	0.188	0.600 PQL		ND	UG/L	1	NONE	SW6020	08/24/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020 Matrix: Water QC Lab Samp ID: 722884									
Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Cadmium	0.200	0.400 PQL		ND	UG/L	1	NONE	SW6020	08/24/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020
Matrix: Water QC
Lab Samp ID: 722884

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Chromium	0.240	0.800 PQL		ND	UG/L	1	NONE	SW6020	08/24/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020
Matrix: Water QC
Lab Samp ID: 722884

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Lead	0.0620	0.200 PQL		ND	UG/L	1	NONE	SW6020	08/24/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020
Matrix: Water QC
Lab Samp ID: 722884

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Nickel	0.124	0.400 PQL		ND	UG/L	1	NONE	SW6020	08/24/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020
Matrix: Water QC
Lab Samp ID: 722884

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Vanadium	1.24	4.00 PQL		ND	UG/L	1	NONE	SW6020	08/24/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020
Matrix: Water QC
Lab Samp ID: 722886

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Arsenic	1.00	2.00 PQL		ND	UG/L	1	NONE	SW6020	08/24/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020
Matrix: Water QC
Lab Samp ID: 722886

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Barium	0.188	0.600 PQL		ND	UG/L	1	NONE	SW6020	08/24/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020
Matrix: Water QC
Lab Samp ID: 722886

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Cadmium	0.200	0.400 PQL		ND	UG/L	1	NONE	SW6020	08/24/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020
Matrix: Water QC
Lab Samp ID: 722886

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Chromium	0.240	0.800 PQL		ND	UG/L	1	NONE	SW6020	08/24/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020
Matrix: Water QC
Lab Samp ID: 722886

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Lead	0.0620	0.200 PQL		ND	UG/L	1	NONE	SW6020	08/24/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020
Matrix: Water QC
Lab Samp ID: 722886

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Nickel	0.124	0.400 PQL		ND	UG/L	1	NONE	SW6020	08/24/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020
 Matrix: Water QC
 Lab Samp ID: 722886

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Vanadium	1.24	4.00 PQL		ND	UG/L	1	NONE	SW6020	08/24/20

QA/QC Report
Initial Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020 Matrix: Water QC Lab Samp ID: 722864						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Arsenic	SW6020	100.	102.	UG/L	102	110-90 MEIC
Barium	SW6020	100.	98.0	UG/L	98.0	110-90 MEIC
Cadmium	SW6020	100.	101.	UG/L	101	110-90 MEIC
Chromium	SW6020	100.	96.1	UG/L	96.1	110-90 MEIC
Lead	SW6020	100.	101.	UG/L	101	110-90 MEIC
Nickel	SW6020	100.	104.	UG/L	104	110-90 MEIC
Vanadium	SW6020	100.	104.	UG/L	104	110-90 MEIC

QA/QC Report
Initial Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020 Matrix: Water QC Lab Samp ID: 722865						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Arsenic	SW6020	75.	77.0	UG/L	103	110-90 MEIC
Barium	SW6020	75.	73.4	UG/L	97.9	110-90 MEIC
Cadmium	SW6020	37.5	37.5	UG/L	100	110-90 MEIC
Chromium	SW6020	75.	69.3	UG/L	92.4	110-90 MEIC
Lead	SW6020	75.	73.0	UG/L	97.3	110-90 MEIC
Nickel	SW6020	75.	74.5	UG/L	99.3	110-90 MEIC
Vanadium	SW6020	75.	67.1	UG/L	89.5	110-90 MEIC

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020 Matrix: Water QC Lab Samp ID: 722879						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Arsenic	SW6020	100.	103.	UG/L	103	110-90 MECC
Barium	SW6020	100.	96.9	UG/L	96.9	110-90 MECC
Cadmium	SW6020	100.	101.	UG/L	101	110-90 MECC
Chromium	SW6020	100.	96.1	UG/L	96.1	110-90 MECC
Lead	SW6020	100.	100.	UG/L	100	110-90 MECC
Nickel	SW6020	100.	107.	UG/L	107	110-90 MECC
Vanadium	SW6020	100.	103.	UG/L	103	110-90 MECC

QA/QC Report

Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020 Matrix: Water QC Lab Samp ID: 722881						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Arsenic	SW6020	100.	101.	UG/L	101	110-90 MECC
Barium	SW6020	100.	95.9	UG/L	95.9	110-90 MECC
Cadmium	SW6020	100.	100.	UG/L	100	110-90 MECC
Chromium	SW6020	100.	93.8	UG/L	93.8	110-90 MECC
Lead	SW6020	100.	99.2	UG/L	99.2	110-90 MECC
Nickel	SW6020	100.	106.	UG/L	106	110-90 MECC
Vanadium	SW6020	100.	93.6	UG/L	93.6	110-90 MECC

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020 Matrix: Water QC Lab Samp ID: 722883						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Arsenic	SW6020	100.	103.	UG/L	103	110-90 MECC
Barium	SW6020	100.	95.9	UG/L	95.9	110-90 MECC
Cadmium	SW6020	100.	100.	UG/L	100	110-90 MECC
Chromium	SW6020	100.	95.4	UG/L	95.4	110-90 MECC
Lead	SW6020	100.	97.5	UG/L	97.5	110-90 MECC
Nickel	SW6020	100.	105.	UG/L	105	110-90 MECC
Vanadium	SW6020	100.	95.5	UG/L	95.5	110-90 MECC

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

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QC Batch: MXX18020 Matrix: Water QC Lab Samp ID: 722885							
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria	
Arsenic	SW6020	100.	102.	UG/L	102	110-90	MECC
Barium	SW6020	100.	95.7	UG/L	95.7	110-90	MECC
Cadmium	SW6020	100.	99.7	UG/L	99.7	110-90	MECC
Chromium	SW6020	100.	92.3	UG/L	92.3	110-90	MECC
Lead	SW6020	100.	94.7	UG/L	94.7	110-90	MECC
Nickel	SW6020	100.	102.	UG/L	102	110-90	MECC
Vanadium	SW6020	100.	97.2	UG/L	97.2	110-90	MECC

SGS Alaska Division Peer Review Report - Horizon Run Log

Queue: MMS Batch: 4365 Create User: SCL Run Date: 08/24/06 Printed: 28-Aug-06

Project	HSN	Type	Sample ID	CC Bottle Number	Matrix	Inst	Run Date/Time	Bench Dilution	Prep Batch	Seq
	722864	ICV		OK	1	P3	08/24/06 13:13	1		1
	722865	QCS		OK	1	P3	08/24/06 13:19	1		2
	722866	CB		OK	1	P3	08/24/06 13:30	1		3
	722867	AgQC		OK	1	P3	08/24/06 13:37	1		4
	722868	CCV		OK	1	P3	08/24/06 13:59	1		5
	722876	CB		OK	1	P3	08/24/06 14:11	1		6
	721929	MB		OK	2	P3	08/24/06 14:43	10	18014MXX	7
	721930	LCS		OK	2	P3	08/24/06 14:48	10	18014MXX	8
1064647	1064647001	PS	06 FTW-DW-5-2	OK 1064647001-B	2	P3	08/24/06 14:53	10	18014MXX	9
	721931	MS		OK	2	P3	08/24/06 14:58	10	18014MXX	10
1064647	1064647002	BMS	06 FTW-DW-5-2 MS	OK 1064647002-B	2	P3	08/24/06 14:58	10	18014MXX	11
	721932	MSD		OK	2	P3	08/24/06 15:03	10	18014MXX	12
1064647	1064647003	BMSD	06 FTW-DW-5-2 MSD	OK 1064647003-B	2	P3	08/24/06 15:03	10	18014MXX	13
	721933	BND		OK	2	P3	08/24/06 15:09	10	18014MXX	14
	721934	DUP		OK	2	P3	08/24/06 15:19	10	18014MXX	15
	722877	CCV		OK	1	P3	08/24/06 15:24	1		16
	722878	CB		OK	1	P3	08/24/06 15:30	1		17
1064647	1064647004	PS	06 FTW-DW-5-3	OK 1064647004-B	2	P3	08/24/06 15:47	10	18014MXX	18
1064648	1064648001	PS	06 Tok DW-3-1	RR 1064648001-B	2	P3	08/24/06 15:52	10	18014MXX	19
1064648	1064648002	BMS	06 Tok DW-3-1 MS	RR 1064648002-B	2	P3	08/24/06 15:57	10	18014MXX	20
1064648	1064648003	BMSD	06 Tok DW-3-1 MSD	RR 1064648003-B	2	P3	08/24/06 16:02	10	18014MXX	21
	721937	BND		RR	2	P3	08/24/06 16:07	10	18014MXX	22
	721938	DUP		RR	2	P3	08/24/06 16:18	10	18014MXX	23
1064648	1064648005	PS	06 Tok DW-3-2	OK 1064648005-B	2	P3	08/24/06 16:23	10	18014MXX	24
1064648	1064648006	PS	06 Tok DW-5-1	OK 1064648006-B	2	P3	08/24/06 16:28	10	18014MXX	25
1064648	1064648007	PS	06 Tok DW-5-3	OK 1064648007-B	2	P3	08/24/06 16:33	10	18014MXX	26
	722879	CCV		OK	1	P3	08/24/06 16:39	1		27
	722880	CB		OK	1	P3	08/24/06 16:44	1		28
1064648	1064648008	PS	06 Tok DW-5-2	OK 1064648008-B	2	P3	08/24/06 17:03	10	18014MXX	29
1064191	1064191001	PS	06HFT-DW-3-2	OK 1064191001-B	2	P3	08/24/06 17:08	10	18014MXX	30
	721939	MS		RR	2	P3	08/24/06 17:13	10	18014MXX	31
1064191	1064191002	PS	06HFT-DW-3-3	OK 1064191002-B	2	P3	08/24/06 17:13	10	18014MXX	32
	721939	MS		OK	2	P3	08/24/06 17:18	10	18014MXX	33
	721940	MSD		RR	2	P3	08/24/06 17:18	10	18014MXX	34
1064191	1064191003	BMS	06HFT-DW-3-3 MS	OK 1064191003-B	2	P3	08/24/06 17:18	10	18014MXX	35
	721940	MSD		OK	2	P3	08/24/06 17:23	10	18014MXX	36
1064191	1064191004	BMSD	06HFT-DW-3-3 MSD	OK 1064191004-B	2	P3	08/24/06 17:23	10	18014MXX	37
	721941	BND		OK	2	P3	08/24/06 17:28	10	18014MXX	38
	721942	DUP		OK	2	P3	08/24/06 17:39	10	18014MXX	39
	722051	MB		OK	1	P3	08/24/06 17:44	5	18020MXX	40
	722052	LCS		OK	1	P3	08/24/06 17:49	5	18020MXX	41
	722881	CCV		OK	1	P3	08/24/06 17:55	1		42

SGS Alaska Division Peer Review Report - Horizon Run Log

Queue: MMS Batch: 4365 Create User: SCL Run Date: 08/24/06 Printed: 28-Aug-06

Project	HSN	Type	Sample ID	CC Bottle Number	Matrix	Inst	Run Date/Time	Bench Dilution	Prep Batch	Seq
	722882	CB		OK	1	P3	08/24/06 18:00	1		43
1064819	1064819055	PS	East Pond	OK 1064819055-D	1	P3	08/24/06 18:07	5	18020MXX	44
	722053	MS		OK	1	P3	08/24/06 18:12	5	18020MXX	45
	722054	MSD		OK	1	P3	08/24/06 18:17	5	18020MXX	46
	722055	BND		OK	1	P3	08/24/06 18:22	5	18020MXX	47
1064819	1064819056	PS	West Pond	OK 1064819056-D	1	P3	08/24/06 18:33	5	18020MXX	48
1064819	1064819057	PS	West Pond Dup	OK 1064819057-D	1	P3	08/24/06 18:38	5	18020MXX	49
1064875	1064875001	PS	06GAM05GS17	OK 1064875001-G	1	P3	08/24/06 18:43	5	18020MXX	50
1064875	1064875002	PS	06GAM05GS18	OK 1064875002-G	1	P3	08/24/06 18:48	5	18020MXX	51
1064875	1064875003	PS	06GAM05GS19	OK 1064875003-G	1	P3	08/24/06 18:53	5	18020MXX	52
	722883	CCV		OK	1	P3	08/24/06 18:59	1		53
	722884	CB		OK	1	P3	08/24/06 19:04	1		54
1064875	1064875004	PS	06GAM05GS21	OK 1064875004-G	1	P3	08/24/06 19:11	5	18020MXX	55
1064875	1064875005	PS	06GAM05GS22	OK 1064875005-G	1	P3	08/24/06 19:16	5	18020MXX	56
1064875	1064875006	PS	06GAM05GS23	OK 1064875006-G	1	P3	08/24/06 19:21	5	18020MXX	57
1064875	1064875007	PS	06GAM05GS24	OK 1064875007-G	1	P3	08/24/06 19:27	5	18020MXX	58
1064875	1064875008	PS	06GAM05GS25	OK 1064875008-G	1	P3	08/24/06 19:32	5	18020MXX	59
1064878	1064878001	PS	GW 01	OK 1064878001-D	1	P3	08/24/06 19:37	5	18020MXX	60
1064878	1064878002	PS	GW 02	OK 1064878002-D	1	P3	08/24/06 19:42	5	18020MXX	61
1064878	1064878003	PS	GW 03	OK 1064878003-D	1	P3	08/24/06 19:48	5	18020MXX	62
1064878	1064878004	PS	GW 01 Duplicate	OK 1064878004-D	1	P3	08/24/06 19:53	5	18020MXX	63
	717955	MB		OK	1	P3	08/24/06 19:58	5	17923MXX	64
	722885	CCV		OK	1	P3	08/24/06 20:03	1		65
	722886	CB		OK	1	P3	08/24/06 20:09	1		66
	717956	LCS		OK	1	P3	08/24/06 20:15	5	17923MXX	67
	717957	LCS		OK	1	P3	08/24/06 20:21	5	17923MXX	68
	717958	LCS		OK	1	P3	08/24/06 20:26	5	17923MXX	69
	717959	LCS		OK	1	P3	08/24/06 20:31	5	17923MXX	70
	720710	MB		OK	1	P3	08/24/06 20:46	5	17996MXX	71
	720711	LCS		OK	1	P3	08/24/06 20:52	5	17996MXX	72
1064717	1064717006	PS	06LF005-SW102	OK 1064717006-D	1	P3	08/24/06 20:57	5	17996MXX	73
	720712	MS		OK	1	P3	08/24/06 21:02	5	17996MXX	74
1064717	1064717007	BMS	06LF005-SW102 MS	OK 1064717007-D	1	P3	08/24/06 21:02	5	17996MXX	75
	722887	CCV		OK	1	P3	08/24/06 21:07	1		76
	722888	CB		OK	1	P3	08/24/06 21:13	1		77
	720713	MSD		OK	1	P3	08/24/06 21:20	5	17996MXX	78
1064717	1064717008	BMSD	06LF005-SW102 MSD	OK 1064717008-D	1	P3	08/24/06 21:20	5	17996MXX	79
	720714	BND		OK	1	P3	08/24/06 21:25	5	17996MXX	80
1064717	1064717001	PS	06LF005-SW01	OK 1064717001-D	1	P3	08/24/06 21:35	5	17996MXX	81
1064717	1064717002	PS	06LF005-SW02	OK 1064717002-D	1	P3	08/24/06 21:40	5	17996MXX	82
1064717	1064717003	PS	06LF005-SW03	OK 1064717003-D	1	P3	08/24/06 21:45	5	17996MXX	83
1064717	1064717004	PS	06LF005-SW04	OK 1064717004-D	1	P3	08/24/06 21:51	5	17996MXX	84

SGS Alaska Division Peer Review Report - Horizon Run Log

Queue: MMS Batch: 4365 Create User: SCL Run Date: 08/24/06 Printed: 28-Aug-06

Project	HSN	Type	Sample ID	CC Bottle Number	Matrix	Inst	Run Date/Time	Bench Dilution	Prep Batch	Seq
1064717	1064717005	PS	06LF005-SW05	OK 1064717005-D	1	P3	08/24/06 21:56	5	17996MXX	85
1064717	1064717010	PS	Purge Water	OK 1064717010-G	1	P3	08/24/06 22:01	5	17996MXX	86
1064575	1064575003	PS	JE06CB-UST1-00OT02-W	OK	1	P3	08/24/06 22:06	10	17996MXX	87
	722889	CCV		OK	1	P3	08/24/06 22:11	1		88
	722890	CB		OK	1	P3	08/24/06 22:17	1		89
1064575	1064575005	PS	JE06CB-UST2-00OT01-W	OK	1	P3	08/24/06 22:24	10	17996MXX	90
1064575	1064575007	PS	JE06CB-UST2-00OT02-W	OK	1	P3	08/24/06 22:29	10	17996MXX	91
	722891	CCV		OK	1	P3	08/24/06 22:34	1		92
	722892	CB		OK	1	P3	08/24/06 22:40	1		93

SGS ALASKA

ICP-MS SUMMARY P3

USER: Su Chin Li W. user
 Computer Name: ICPMS3
 Dataset File Path: C:\elandata\Dataset\08.24.2006p3\
 Report Date/Time: Friday, August 25, 2006 10:39:03

The Dataset

Sample ID	Date and Time	Description	Read Type	Diluted Vol.
Blank	12:45:50 Thu 24-Aug-06		Blank	
Standard 1	12:50:11 Thu 24-Aug-06		Standard #1	
Standard 2	12:54:31 Thu 24-Aug-06		Standard #2	
Standard 3	12:58:51 Thu 24-Aug-06		Standard #3	
Standard 4	13:03:12 Thu 24-Aug-06		Standard #4	
Standard 5	13:08:56 Thu 24-Aug-06		Standard #5	
QC Std 1	13:13:21 Thu 24-Aug-06		QC Std #1	
QC Std 2	13:19:04 Thu 24-Aug-06		QC Std #2	
QC Std 3	13:24:45 Thu 24-Aug-06		QC Std #3	
QC Std 3	13:30:54 Thu 24-Aug-06		QC Std #3	
QC Std 4	13:37:36 Thu 24-Aug-06		QC Std #4	
QC Std 6	13:43:28 Thu 24-Aug-06		QC Std #6	
QC Std 7	13:49:16 Thu 24-Aug-06		QC Std #7	
	13:54:50 Thu 24-Aug-06		Sample	1.000
QC Std 1	13:59:59 Thu 24-Aug-06		QC Std #1	
QC Std 3	14:05:40 Thu 24-Aug-06		QC Std #3	
QC Std 3	14:11:49 Thu 24-Aug-06		QC Std #3	
1	14:22:23 Thu 24-Aug-06		Sample	1000.000
2	14:27:32 Thu 24-Aug-06		Sample	1000.000
721929	14:43:09 Thu 24-Aug-06		Sample	10.000
721930	14:48:18 Thu 24-Aug-06		Sample	10.000
1064647001	14:53:28 Thu 24-Aug-06		Sample	10.000
1064647001	14:58:38 Thu 24-Aug-06		Sample	10.000
1064647001	15:03:49 Thu 24-Aug-06		Sample	10.000
1064647001	15:09:01 Thu 24-Aug-06		Sample	10.000
1064647001	15:14:13 Thu 24-Aug-06		Sample	10.000
721934	15:19:25 Thu 24-Aug-06		Sample	10.000
QC Std 1	15:24:38 Thu 24-Aug-06		QC Std #1	
QC Std 3	15:30:19 Thu 24-Aug-06		QC Std #3	
1064647004	15:47:05 Thu 24-Aug-06		Sample	10.000
1064648001	15:52:17 Thu 24-Aug-06		Sample	10.000
1064648002	15:57:30 Thu 24-Aug-06		Sample	10.000
1064648003	16:02:43 Thu 24-Aug-06		Sample	10.000
721937	16:07:57 Thu 24-Aug-06		Sample	10.000
r	16:13:12 Thu 24-Aug-06		Sample	10.000
721938	16:18:27 Thu 24-Aug-06		Sample	10.000

1064648005	16:23:38 Thu 24-Aug-06	Sample	10.000
1064648006	16:28:46 Thu 24-Aug-06	Sample	10.000
1064648007	16:33:54 Thu 24-Aug-06	Sample	10.000
QC Std 1	16:39:05 Thu 24-Aug-06	QC Std #1	
QC Std 3	16:44:46 Thu 24-Aug-06	QC Std #3	
1064648008	17:03:03 Thu 24-Aug-06	Sample	10.000
1064191001	17:08:13 Thu 24-Aug-06	Sample	10.000
1064191002	17:13:24 Thu 24-Aug-06	Sample	10.000
1064191003	17:18:35 Thu 24-Aug-06	Sample	10.000
1064191004	17:23:46 Thu 24-Aug-06	Sample	10.000
721941	17:28:57 Thu 24-Aug-06	Sample	10.000
r	17:34:09 Thu 24-Aug-06	Sample	10.000
721942	17:39:21 Thu 24-Aug-06	Sample	10.000
722051	17:44:34 Thu 24-Aug-06	Sample	5 10.000
722052	17:49:47 Thu 24-Aug-06	Sample	10.000
QC Std 1	17:55:01 Thu 24-Aug-06	QC Std #1	
QC Std 3	18:00:43 Thu 24-Aug-06	QC Std #3	
1064819055	18:07:25 Thu 24-Aug-06	Sample	10.000
1064819055	18:12:40 Thu 24-Aug-06	Sample	10.000
1064819055	18:17:52 Thu 24-Aug-06	Sample	10.000
1064819055	18:22:59 Thu 24-Aug-06	Sample	10.000
1064819055	18:28:06 Thu 24-Aug-06	Sample	10.000
1064819056	18:33:14 Thu 24-Aug-06	Sample	10.000
1064819057	18:38:24 Thu 24-Aug-06	Sample	10.000
1064875001	18:43:33 Thu 24-Aug-06	Sample	10.000
1064875002	18:48:44 Thu 24-Aug-06	Sample	10.000
1064875003	18:53:55 Thu 24-Aug-06	Sample	10.000
QC Std 1	18:59:07 Thu 24-Aug-06	QC Std #1	
QC Std 3	19:04:49 Thu 24-Aug-06	QC Std #3	
1064875004	19:11:30 Thu 24-Aug-06	Sample	10.000
1064875005	19:16:42 Thu 24-Aug-06	Sample	10.000
1064875006	19:21:54 Thu 24-Aug-06	Sample	10.000
1064875007	19:27:07 Thu 24-Aug-06	Sample	10.000
1064875008	19:32:21 Thu 24-Aug-06	Sample	10.000
1064878001	19:37:34 Thu 24-Aug-06	Sample	10.000
1064878002	19:42:49 Thu 24-Aug-06	Sample	10.000
1064878003	19:48:04 Thu 24-Aug-06	Sample	10.000
1064878004	19:53:15 Thu 24-Aug-06	Sample	10.000
717955	19:58:23 Thu 24-Aug-06	Sample	5.000
QC Std 1	20:03:34 Thu 24-Aug-06	QC Std #1	
QC Std 3	20:09:16 Thu 24-Aug-06	QC Std #3	
717956	20:15:55 Thu 24-Aug-06	Sample	5.000
717957	20:21:04 Thu 24-Aug-06	Sample	5.000
717958	20:26:13 Thu 24-Aug-06	Sample	5.000
717959	20:31:23 Thu 24-Aug-06	Sample	5.000
r	20:36:33 Thu 24-Aug-06	Sample	5.000
r	20:41:44 Thu 24-Aug-06	Sample	5.000
720710	20:46:54 Thu 24-Aug-06	Sample	5.000

720711	20:52:06 Thu 24-Aug-06	Sample	5.000
1064717006	20:57:18 Thu 24-Aug-06	Sample	5.000
1064717006	21:02:31 Thu 24-Aug-06	Sample	5.000
QC Std 1	21:07:43 Thu 24-Aug-06	QC Std #1	
QC Std 3	21:13:25 Thu 24-Aug-06	QC Std #3	
1064717006	21:20:07 Thu 24-Aug-06	Sample	5.000
1064717006	21:25:20 Thu 24-Aug-06	Sample	5.000
1064717006	21:30:34 Thu 24-Aug-06	Sample	5.000
1064717001	21:35:44 Thu 24-Aug-06	Sample	5.000
1064717002	21:40:51 Thu 24-Aug-06	Sample	5.000
1064717003	21:45:59 Thu 24-Aug-06	Sample	5.000
1064717004	21:51:07 Thu 24-Aug-06	Sample	5.000
1064717005	21:56:15 Thu 24-Aug-06	Sample	5.000
1064717010	22:01:24 Thu 24-Aug-06	Sample	5.000
1064757003	22:06:34 Thu 24-Aug-06	Sample	10.000
QC Std 1	22:11:46 Thu 24-Aug-06	QC Std #1	
QC Std 3	22:17:28 Thu 24-Aug-06	QC Std #3	
1064757005	22:24:08 Thu 24-Aug-06	Sample	10.000
1064757007	22:29:18 Thu 24-Aug-06	Sample	10.000
QC Std 1	22:34:31 Thu 24-Aug-06	QC Std #1	
QC Std 3	22:40:12 Thu 24-Aug-06	QC Std #3	

#	Sample ID	Prep Batch	Bench Dilution	Analytes	Comments	STATUS
	BLK	7		Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	SPK1			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	2			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	3			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	4			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	JUN			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	QUS			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		B.V
	CB			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	CB			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	AGOR			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		VOK
	IUSA			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		OK
	AB			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		V 724010, C+67, 20P, K(S)
	R			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	CW			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	CB	Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr				
	CB	Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr				
	1	Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		test spk for prep		
	2	Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr				
	721929MB	10	Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr			
	9302CS		Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr			
	4647-1		Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr			
	-IMS		Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		721931	
	-IMSD		Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		32	
	-BND		Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr			
	-IDT	50	Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr			
	721934		Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr			
	CW		Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr			

Daily Checks:	Standards	Date	Log # / LIMS #	Standards	Date	Log # / LIMS #
Windings <input type="checkbox"/>	ICV/CVS	237-398	410-277			
Optimization <input type="checkbox"/>	QC	100	240			
Tuning <input type="checkbox"/>	Ag QC	71	960			
Sample Flow <input type="checkbox"/>	INTERNAL	237	480			
Dispenser Calib. <input type="checkbox"/>			BND 38			
Waste <input type="checkbox"/>						

SGS

Method:

Run Date:

Analyst:

ICP MS Run Log

File ID:

Queue/Batch:

#	Sample ID	Prep Batch	Bench Dilution	Analytes	Comments	STATUS
	cb		10	Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	82	
	46474			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	4648-1			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	RR	
	-2			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	RR	721935
	-3			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	RR	36
	721937			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	RR	
	8			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	721938			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	RR	
	4648-5			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	-6			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		721939
	-7			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		721940
	cu			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	57	
	cb			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	4648-8			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	4191-1			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	-2			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	-3			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	-4			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	721941			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	8			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	721942			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	72205/MB		5	Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	BAZ-1	
	5245			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	cu			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	cb			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	4819-55			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	JEMS			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		

Daily Checks:

- Windings
- Optimization
- Tuning
- Sample Flow
- Dispenser Calib.
- Waste

Standards	Date	Log # / LIMS #	Standards	Date	Log # / LIMS #
ICV/CVS					
QC					
Ag QC					
INTERNAL					

#	Sample ID	Prep Batch	Bench Dilution	Analytes													Comments	STATUS
	481955 MSD		2006/10/26	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe			
	55 BAP			Mg	Mn	Mo	Na	Ni	Pb	Ti	Sb	Se	Sr	V	Zn	Zr		
	507			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe			
	56			K	Mg	Mn	Mo	Na	Ni	Pb	Ti	Sb	Se	Sr	V	Zn	Zr	
	57			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe			
	4875-2			K	Mg	Mn	Mo	Na	Ni	Pb	Ti	Sb	Se	Sr	V	Zn	Zr	
	3			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe			
	4875-4			K	Mg	Mn	Mo	Na	Ni	Pb	Ti	Sb	Se	Sr	V	Zn	Zr	
	5			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe			
	6			K	Mg	Mn	Mo	Na	Ni	Pb	Ti	Sb	Se	Sr	V	Zn	Zr	
	7			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe			
	8			K	Mg	Mn	Mo	Na	Ni	Pb	Ti	Sb	Se	Sr	V	Zn	Zr	
	4878-1			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe			
	-2			K	Mg	Mn	Mo	Na	Ni	Pb	Ti	Sb	Se	Sr	V	Zn	Zr	
	3			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe			
	4			K	Mg	Mn	Mo	Na	Ni	Pb	Ti	Sb	Se	Sr	V	Zn	Zr	
	717955			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe			
	56655			K	Mg	Mn	Mo	Na	Ni	Pb	Ti	Sb	Se	Sr	V	Zn	Zr	
	717957			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe			
	58			K	Mg	Mn	Mo	Na	Ni	Pb	Ti	Sb	Se	Sr	V	Zn	Zr	
	59			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe			
	720710			K	Mg	Mn	Mo	Na	Ni	Pb	Ti	Sb	Se	Sr	V	Zn	Zr	

Daily Checks:

- Windings
- Optimization
- Tuning
- Sample Flow
- Dispenser Calib.
- Waste

Standards	Date	Log # / LIMS #	Standards	Date	Log # / LIMS #
ICV/CVS					
QC					
Ag QC					
INTERNAL					

SGS

Method: _____

Run Date: _____

Analyst: _____

File ID: _____

Queue/Batch: _____

ICP MS Run Log

#	Sample ID	Prep Batch	Bench Dilution	Analyses	Comments	STATUS
	207114		5	Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	[Large handwritten scribble]	
	47176			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	-604			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	47171			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	2			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	3			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	4			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	5			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	10			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	8573		10	Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	47173			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	5		10	Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	7		10	Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	47174			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	47175			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	47176			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	47177			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	47178			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	47179			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	47180			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		

Daily Checks:

- Windings
- Optimization
- Tuning
- Sample Flow
- Dispenser Calib.
- Waste

Standards	Date	Log # / LIMS #	Standards	Date	Log # / LIMS #
ICV/CVS					
QC					
Ag QC					
INTERNAL					



Metals Preparations Log

Prep Method : 3010/6020

Analyst : Curtis

Prep Date : 8-22-06

Queue / Batch : MAX 18020

Sample #	Lab Filtered	pH < 2	Initial Vol (mL)	Initial Wt. (g)	Final Vol (mL)	Comments HSN#
MB	←		50	←	50	722051
LCS						722052
4819-55D						↳
-55MS						
-55MSD						
-56D						
-57D						
4875-16						
-26						
-36						
-46						
-56						
-66						
-76						
-86						
4878-1D						
-2D						
-3D						
-4D						
CAW 8-23-06						

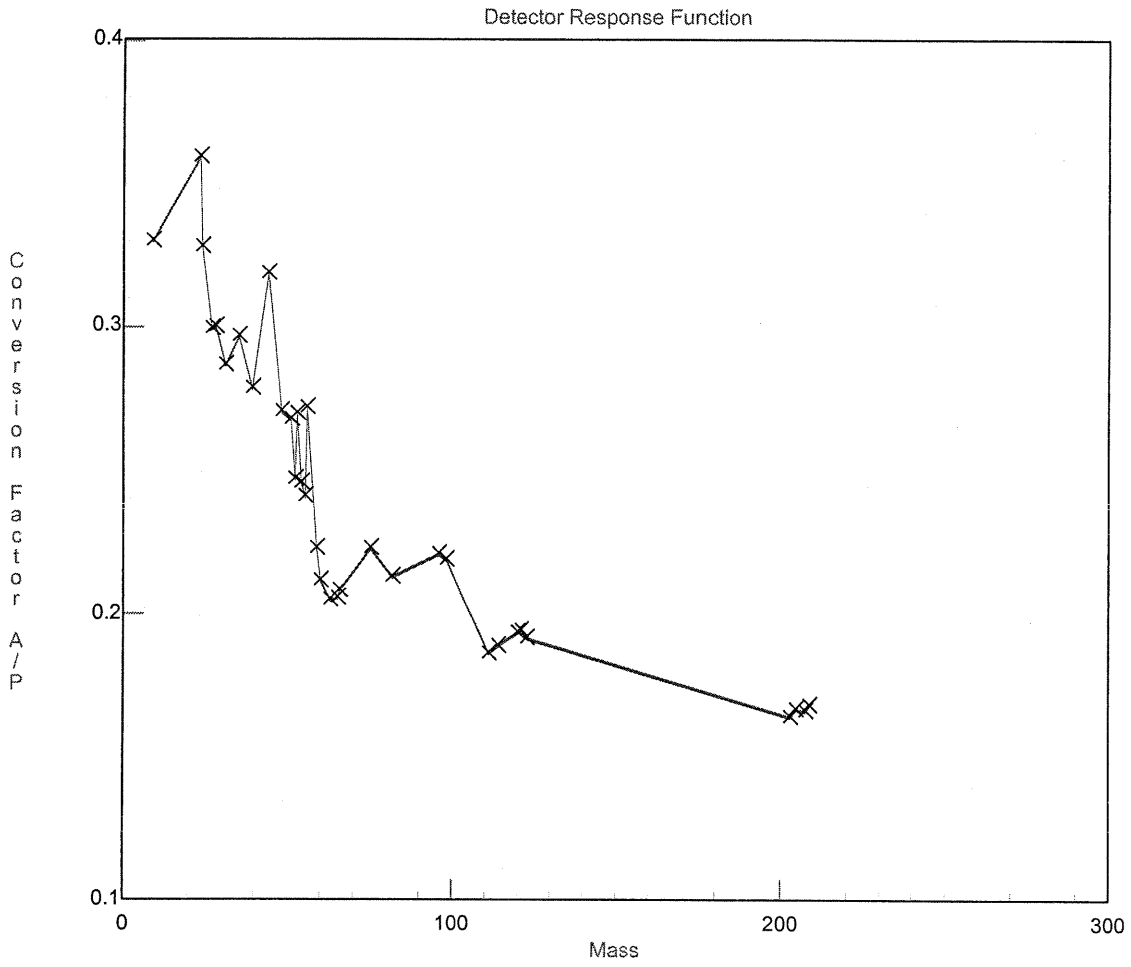
Spike Soln Lot # : 0159-84 / P-41-15	Spike Amount (mL) : 1.0 / 0.5
HNO3 Lot # : C16038	Temp. Check (C°) : 95
HCL Lot # : L504-0168-6	H2O2 Lot # : N/A
Vessel Lot # : CM07BCC03	

Comments : ←

Instrument Tuning Report

File Name: default.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
He	3.016	3.025 ✓	609	2067	0.675	
Mg	23.985	23.979 ✓	5741	2005	0.689 ✓	
Co	58.933	58.929 ✓	14327	1919	0.694 ✓	
Rh	102.905	102.879 ✓	25079	1872	0.677 ✓	
Ce	139.905	139.929 ✓	34068	1924	0.669 ✓	
Pb	207.977	208.026 ✓	50498	2190	0.671 ✓	



SGS DAILY PERFORMANCE REPORT

ELAN 6100 ICP-MS P3

Sample ID: Sample

Sample Date/Time: Wednesday, August 30, 2006 14:13:41
 Method File: c:\elandata\Method\CT&E Daily.mth
 Dataset File: c:\elandata\Dataset\daily performance\Sample.2540
 Tuning File: c:\elandata\Tuning\default.tun
 Optimization File: c:\elandata\Optimize\default.dac
 Dual Detector Mode: Dual
 Acq. Dead Time(ns): 35
 Current Dead Time (ns): 35

Summary

Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
Mg	24.0	47041.0 ✓	47040.991	263.053	0.6
Rh	102.9	336266.9 ✓	336266.931	2167.535	0.6
In	114.9	400800.3	400800.292	1248.106	0.3
Pb	208.0	260100.1 ✓	260100.064	1600.318	0.6
[> Ba	137.9	395484.5	395484.482	3493.537	0.9
[Ba++	69.0	10391.0	0.026 ✓	0.000	0.7
[> Ce	139.9	439618.1	439618.088	2830.175	0.6
[CeO	155.9	13171.1	0.030 ✓	0.000	0.7
Bkgd	220.0	8.1 ✓	8.133	1.488	18.3

Current Optimization File Data

Current Value	Description
0.90	Nebulizer Gas Flow
7.25	Lens Voltage
1100.00	ICP RF Power
-2225.00	Analog Stage Voltage
1300.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-7.00	AC Rod Offset
60.00	Service DAC 1
0.00	Quadrupole Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	45	6.3	2948.6
Co	59	45	7.3	63210.9
In	115	45	8.5	217813.9
U	238	45	10.5	433461.8

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 82

QC Batch: MXX18020
Matrix: Water QC
Lab Samp ID: 724219

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Chromium	0.240	0.800 PQL		ND	UG/L	1	NONE	SW6020	08/30/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 83

QC Batch: MXX18020
Matrix: Water QC
Lab Samp ID: 724227

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Chromium	0.240	0.800 PQL		ND	UG/L	1	NONE	SW6020	08/30/20

QA/QC Report Reagent Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 84

QC Batch: MXX18020
Matrix: Water QC
Lab Samp ID: 724229

Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Chromium	0.240	0.800 PQL		ND	UG/L	1	NONE	SW6020	08/30/20

QA/QC Report
Initial Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 102

QC Batch: MXX18020 Matrix: Water QC Lab Samp ID: 724216						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Chromium	SW6020	100.	103.	UG/L	103	110-90 MEIC

QA/QC Report
Initial Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 103

QC Batch: MXX18020 Matrix: Water QC Lab Samp ID: 724217						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Chromium	SW6020	75.	73.5	UG/L	98.0	110-90 MEIC

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 152

QC Batch: MXX18020 Matrix: Water QC Lab Samp ID: 724226						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Chromium	SW6020	100.	103.	UG/L	103	110-90 MECC

QA/QC Report
Continuing Calibration Verification Standard Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 153

QC Batch: MXX18020 Matrix: Water QC Lab Samp ID: 724228						
Analyte	Analysis Method	True Level	Result	Units	% Rec	Acceptance Criteria
Chromium	SW6020	100.	94.4	UG/L	94.4	110-90 MECC

SGS Alaska Division Peer Review Report - Horizon Run Log

Queue: MMS Batch: 4379 Create User: SCL Run Date: 08/30/06 Printed: 31-Aug-06

Project	HSN	Type	Sample ID	CC	Bottle Number	Matrix	Inst	Run Date/Time	Bench Dilution	Prep Batch	Seq
	724216	ICV		OK		1	P3	08/30/06 15:03	1		1
	724217	QCS		OK		1	P3	08/30/06 15:09	1		2
	724218	CB		OK		1	P3	08/30/06 15:15	1		3
	724219	CB		OK		1	P3	08/30/06 15:21	1		4
	724220	AgQC		OK		1	P3	08/30/06 15:46	1		5
1064875	1064875001	PS	06GAM05GS17	OK	1064875001-G	1	P3	08/30/06 16:07	5	18020MXX	6
1064875	1064875002	PS	06GAM05GS18	OK	1064875002-G	1	P3	08/30/06 16:12	5	18020MXX	7
1064875	1064875003	PS	06GAM05GS19	OK	1064875003-G	1	P3	08/30/06 16:18	5	18020MXX	8
1064875	1064875004	PS	06GAM05GS21	OK	1064875004-G	1	P3	08/30/06 16:23	5	18020MXX	9
1064875	1064875005	PS	06GAM05GS22	OK	1064875005-G	1	P3	08/30/06 16:28	5	18020MXX	10
1064875	1064875006	PS	06GAM05GS23	OK	1064875006-G	1	P3	08/30/06 16:33	5	18020MXX	11
1064875	1064875007	PS	06GAM05GS24	OK	1064875007-G	1	P3	08/30/06 16:38	5	18020MXX	12
	724226	CCV		OK		1	P3	08/30/06 16:46	5		13
	724227	CB		OK		1	P3	08/30/06 17:04	1		14
1064875	1064875008	PS	06GAM05GS25	OK	1064875008-G	1	P3	08/30/06 17:10	5	18020MXX	15
	724228	CCV		OK		1	P3	08/30/06 18:02	1		16
	724229	CB		OK		1	P3	08/30/06 18:14	1		17

SGS ALASKA

ICP-MS SUMMARY P3

USER: Su Chin Li W. user
 Computer Name: ICPMS3
 Dataset File Path: C:\elandata\Dataset\08.30.2006p3\
 Report Date/Time: Thursday, August 31, 2006 10:37:29

The Dataset

Sample ID	Date and Time	Description	Read Type	Diluted Vol.
Blank	14:36:13 Wed 30-Aug-06		Blank	
Standard 1	14:40:33 Wed 30-Aug-06		Standard #1	
Standard 2	14:44:53 Wed 30-Aug-06		Standard #2	
Standard 3	14:49:14 Wed 30-Aug-06		Standard #3	
Standard 4	14:53:35 Wed 30-Aug-06		Standard #4	
Standard 5	14:59:19 Wed 30-Aug-06		Standard #5	
QC Std 1	15:03:43 Wed 30-Aug-06		QC Std #1	
QC Std 2	15:09:27 Wed 30-Aug-06		QC Std #2	
QC Std 3	15:15:10 Wed 30-Aug-06		QC Std #3	
QC Std 3	15:21:19 Wed 30-Aug-06		QC Std #3	
QC Std 4	15:28:02 Wed 30-Aug-06		QC Std #4	
QC Std 6	15:33:54 Wed 30-Aug-06		QC Std #6	
QC Std 7	15:39:43 Wed 30-Aug-06		QC Std #7	
QC Std 4	15:46:42 Wed 30-Aug-06		QC Std #4	
QC Std 7	15:56:12 Wed 30-Aug-06		QC Std #7	
1064875001	16:07:44 Wed 30-Aug-06		Sample	5.000
1064875002	16:12:53 Wed 30-Aug-06		Sample	5.000
1064875003	16:18:03 Wed 30-Aug-06		Sample	5.000
1064875004	16:23:13 Wed 30-Aug-06		Sample	5.000
1064875005	16:28:23 Wed 30-Aug-06		Sample	5.000
1064875006	16:33:34 Wed 30-Aug-06		Sample	5.000
1064875007	16:38:46 Wed 30-Aug-06		Sample	5.000
QC Std 1	16:46:07 Wed 30-Aug-06		QC Std #1	
QC Std 3	16:51:49 Wed 30-Aug-06		QC Std #3	
QC Std 3	17:04:17 Wed 30-Aug-06		QC Std #3	
1064875008	17:10:39 Wed 30-Aug-06		Sample	5.000
722630	17:15:51 Wed 30-Aug-06		Sample	5.000
722625	17:21:04 Wed 30-Aug-06		Sample	5.000
1064819021	17:26:17 Wed 30-Aug-06		Sample	10.000
1064819021	17:31:31 Wed 30-Aug-06		Sample	10.000
1064819021	17:36:45 Wed 30-Aug-06		Sample	10.000
1064819021	17:42:00 Wed 30-Aug-06		Sample	10.000
1064819021	17:47:15 Wed 30-Aug-06		Sample	10.000
722692	17:52:31 Wed 30-Aug-06		Sample	10.000
1064819022	17:57:43 Wed 30-Aug-06		Sample	10.000
QC Std 1	18:02:55 Wed 30-Aug-06		QC Std #1	

X

QC Std 3	18:08:36 Wed 30-Aug-06
QC Std 3	18:14:45 Wed 30-Aug-06
1064819023	18:21:25 Wed 30-Aug-06
1064819024	18:26:34 Wed 30-Aug-06
1064819025	18:31:44 Wed 30-Aug-06
1064819026	18:36:54 Wed 30-Aug-06
1064819027	18:42:05 Wed 30-Aug-06
1064819028	18:47:16 Wed 30-Aug-06
1064819029	18:52:28 Wed 30-Aug-06
1064819030	18:57:40 Wed 30-Aug-06
1064819031	19:02:52 Wed 30-Aug-06
1064819032	19:08:05 Wed 30-Aug-06
QC Std 1	19:13:19 Wed 30-Aug-06
QC Std 3	19:19:01 Wed 30-Aug-06
QC Std 3	19:25:10 Wed 30-Aug-06
1064819033	19:31:52 Wed 30-Aug-06
1064819034	19:37:06 Wed 30-Aug-06
1064819035	19:42:20 Wed 30-Aug-06
1064819036	19:47:35 Wed 30-Aug-06
1064819037	19:52:47 Wed 30-Aug-06
1064819038	19:57:55 Wed 30-Aug-06
1064819039	20:03:03 Wed 30-Aug-06
1064819040	20:08:12 Wed 30-Aug-06
QC Std 1	20:13:24 Wed 30-Aug-06
QC Std 3	20:19:06 Wed 30-Aug-06
QC Std 3	20:25:15 Wed 30-Aug-06

QC Std #3	
QC Std #3	
Sample	10.000
Sample	10.000
Sample	10.000
Sample	10.000
Sample	10.000
Sample	10.000
Sample	10.000
Sample	10.000
Sample	10.000
Sample	10.000
QC Std #1	
QC Std #3	
QC Std #3	
Sample	10.000
Sample	5.000
Sample	10.000
Sample	10.000
Sample	10.000
Sample	10.000
Sample	10.000
QC Std #1	
QC Std #3	
QC Std #3	

6020

8/28/06

cm

82810693A

4370

#	Sample ID	Prep Batch	Bench Dilution	Analytes														Comments	STATUS												
	BK	7		Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Tl	Sb	Se	Sr	V	Zn	Zr		
	SD1			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Tl	Sb	Se	Sr	V	Zn	Zr		
	2			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Tl	Sb	Se	Sr	V	Zn	Zr		
	3			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Tl	Sb	Se	Sr	V	Zn	Zr		
	4			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Tl	Sb	Se	Sr	V	Zn	Zr		
	UN			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Tl	Sb	Se	Sr	V	Zn	Zr		
	QUS			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Tl	Sb	Se	Sr	V	Zn	Zr		
	CB			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Tl	Sb	Se	Sr	V	Zn	Zr	TI read	
	CB			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Tl	Sb	Se	Sr	V	Zn	Zr	OK	
	Agbe			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Tl	Sb	Se	Sr	V	Zn	Zr		
	ICSA	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Tl	Sb	Se	Sr	V	Zn	Zr				
	DB	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Tl	Sb	Se	Sr	V	Zn	Zr	V-146, Mn 120.65n 86966			
	722594		10	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Tl	Sb	Se	Sr	V	Zn	Zr	CV 16.6	
	25LCS			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Tl	Sb	Se	Sr	V	Zn	Zr		
	4819-1			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Tl	Sb	Se	Sr	V	Zn	Zr	72	
	-IMS			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Tl	Sb	Se	Sr	V	Zn	Zr		
	-IMS/D			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Tl	Sb	Se	Sr	V	Zn	Zr		
	-IB/D			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Tl	Sb	Se	Sr	V	Zn	Zr		
	4819-1ST			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Tl	Sb	Se	Sr	V	Zn	Zr		
	722594PUP			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Tl	Sb	Se	Sr	V	Zn	Zr		
	4819-2			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Tl	Sb	Se	Sr	V	Zn	Zr	287	
	3			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Tl	Sb	Se	Sr	V	Zn	Zr	155	
	UN			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Tl	Sb	Se	Sr	V	Zn	Zr		
	CB			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Tl	Sb	Se	Sr	V	Zn	Zr		
	CB			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Tl	Sb	Se	Sr	V	Zn	Zr	OK	
	4819-4			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Tl	Sb	Se	Sr	V	Zn	Zr		
	-5			Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	Pb	Tl	Sb	Se	Sr	V	Zn	Zr		

Daily Checks:

- Windings
- Optimization
- Tuning
- Sample Flow
- Dispenser Calib.
- Waste

Standards	Date	Log # / LIMS #	Standards	Date	Log # / LIMS #
ICV/CVS	237-39 B. 41 B. 217				
QC	102.248				
Ag QC	796 D				
INTERNAL	237-487A				
	BXD38				

4

SGS

Method: _____

Run Date: _____

Analyst: _____

File ID: _____

Queue/Batch: _____

ICP MS Run Log

#	Sample ID	Prep Batch	Bench Dilution	Analytes	Comments	STATUS
	4819-6		10	Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	-7			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	173	
	-8			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	115	
	-9			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	-10			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	-11			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	-12			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	-13			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	CW/			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	CB			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	-14			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	-15			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	-16			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	-17			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	-18			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	-19			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	-20			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	71249.6MB			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	4648-1			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	-2			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	CW/	721935
	-3			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr	CB	721936
	-1BND			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		721937
	CW/			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
	CB			Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
				Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
				Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		
				Ag Al As B Ba Be Ca Cd Co Cr Cu Fe K Mg Mn Mo Na Ni Pb Tl Sb Se Sr V Zn Zr		

Daily Checks:

- Windings
- Optimization
- Tuning
- Sample Flow
- Dispenser Calib.
- Waste

Standards	Date	Log # / LIMS #	Standards	Date	Log # / LIMS #
ICV/CVS					
QC					
Ag QC					
INTERNAL					



Metals Preparations Log

Prep Method : 3010/6020

Analyst : Curtis

Prep Date : 8-22-06

Queue / Batch : MAX 18020

Sample #	Lab Filtered	pH < 2	Initial Vol (mL)	Initial Wt. (g)	Final Vol (mL)	Comments HSN#	
MB	←		50	←	50	722051	
LCS						722052	
4819-55D						←	
-55MS							
-55MSD							
-56D							
-57D							
4875-16							
-26							
-36							
-46							
-56							
-66							
-76							
-86							
4878-1D							
-2D							
-3D							
-4D							
CAW 8-23-06							

Spike Soln Lot # : 0159-84 / P-41-15	Spike Amount (mL) : 1.0 / 0.5
HNO3 Lot # : C16038	Temp. Check (C°) : 95
HCL Lot # : L504-0168-6	H2O2 Lot # : N/A
Vessel Lot # : C.M.G 7 BCC03	

Comments : ←

Section 8.2

SGS ALASKA

Calibration Type: External Calibration
 File Name 08.22.2006p3a.cal

P-E ELAN 6100 ICP-MS P3 CALIBRATION SUMMARY

Analyte	Mass	Std 1	Std 2	Std 3	Std 4	Std 5
Li-1	7.016		1.000	10.000	100.000	1000.000
Be	9.012	0.200	1.000	10.000	100.000	1000.000
B	11.009		100.000	1000.000	10000.000	
Al	26.982		1.000	10.000	100.000	1000.000
Sc-2	44.956					
V	50.944		1.000	10.000	100.000	1000.000
Cr	51.941		1.000	10.000	100.000	1000.000
Cr	52.941		1.000	10.000	100.000	1000.000
Mn	54.938	0.200	1.000	10.000	100.000	1000.000
Co	58.933	0.200	1.000	10.000	100.000	1000.000
Ni	57.935	0.200	1.000	10.000	100.000	1000.000
Ni	59.933	0.200	1.000	10.000	100.000	1000.000
Cu	62.930		1.000	10.000	100.000	1000.000
Cu	64.928		1.000	10.000	100.000	1000.000
Zn	65.926		1.000	10.000	100.000	1000.000
Zn	66.927		1.000	10.000	100.000	1000.000
Zn	67.925		1.000	10.000	100.000	1000.000
Ge-1	73.922					
As	74.922		1.000	10.000	100.000	1000.000
Se	76.920		1.000	10.000	100.000	1000.000
Se	81.917		1.000	10.000	100.000	1000.000
Kr	82.914					
Sr	87.906					
Zr	89.904					
Mo	94.906	0.200	1.000	10.000	100.000	
Mo	97.906	0.200	1.000	10.000	100.000	
Ru	98.906					
Ru	100.906					
Pd	105.903					
Pd	107.904					
Ag	106.905	0.200	1.000	10.000	100.000	
Ag	108.905	0.200	1.000	10.000	100.000	
Cd	110.904	0.200	1.000	10.000	100.000	1000.000
Cd	113.904	0.200	1.000	10.000	100.000	1000.000
In-1	114.904					
Sn	117.902	0.200	1.000	10.000	100.000	
Sb	120.904	0.200	1.000	10.000	100.000	1000.000
Sb	122.904	0.200	1.000	10.000	100.000	1000.000
Te	124.904					
Ba	134.906	0.200	1.000	10.000	100.000	1000.000
Ba	136.905	0.200	1.000	10.000	100.000	1000.000
La	138.906					
Tb-1	158.925					
Ho	164.930					
Au	196.967					
Hg	201.971					
Tl	202.972	0.200	1.000	10.000	100.000	1000.000

Tl	204.975	0.200	1.000	10.000	100.000	1000.000
Pb	207.977	0.200	1.000	10.000	100.000	1000.000
Bi	208.980	0.200	1.000	10.000	100.000	1000.000
Th-1	232.038					1000.000
U-1	238.050		1.000	10.000	100.000	1000.000
Na	22.990		100.000	1000.000	10000.000	
Mg	23.985		100.000	1000.000	10000.000	
Mg	24.986		100.000	1000.000	10000.000	
Si	27.977		100.000	1000.000	10000.000	
P	30.994		100.000	1000.000	10000.000	
K	38.964		100.000	1000.000	10000.000	
Sc-1	44.956					
Ca	42.959		100.000	1000.000	10000.000	
Ti	47.948	10.000	100.000	1000.000	10000.000	
Fe	53.940		100.000	1000.000	10000.000	
Fe	55.935		100.000	1000.000	10000.000	
Fe	56.935		100.000	1000.000	10000.000	
Ge-1	73.922					
Sc	44.956					
Ge	73.922					
In	114.904					
Tb	158.925					
Th	232.038					

Analyte	Mass	Curve T	Slope	Corr. Coeff.	Intercept
Li-1	7.016	Linear Thru Zero	0.0006626	0.9999599	0.000000
Be	9.012	Linear Thru Zero	0.0002050	0.9999596	0.000000
B	11.009	Linear Thru Zero	0.0002053	0.9999991	0.000000
Al	26.982	Linear Thru Zero	0.0026988	0.9997978	0.000000
Sc-2	44.956	Linear Thru Zero	0.0000000	0.0000000	0.000000
V	50.944	Linear Thru Zero	0.0021003	0.9997193	0.000000
Cr	51.941	Linear Thru Zero	0.0018019	0.9999732	0.000000
Cr	52.941	Linear Thru Zero	0.0002617	0.9845814	0.000000
Mn	54.938	Linear Thru Zero	0.0029593	0.9999981	0.000000
Co	58.933	Linear Thru Zero	0.0023127	0.9999953	0.000000
Ni	57.935	Linear Thru Zero	0.0011118	0.9996173	0.000000
Ni	59.933	Linear Thru Zero	0.0005019	0.9999996	0.000000
Cu	62.930	Linear Thru Zero	0.0010313	0.9999977	0.000000
Cu	64.928	Linear Thru Zero	0.0005067	0.9999693	0.000000
Zn	65.926	Linear Thru Zero	0.0002946	0.9998696	0.000000
Zn	66.927	Linear Thru Zero	0.0000574	0.9962803	0.000000
Zn	67.925	Linear Thru Zero	0.0002212	0.9999980	0.000000
Ge-1	73.922	Linear Thru Zero	0.0000000	0.0000000	0.000000
As	74.922	Linear Thru Zero	0.0004016	0.9999956	0.000000
Se	76.920	Linear Thru Zero	0.0000316	0.9954915	0.000000
Se	81.917	Linear Thru Zero	0.0000392	0.9999995	0.000000
Kr	82.914	Linear Thru Zero	0.0000000	0.0000000	0.000000
Sr	87.906	Linear Thru Zero	0.0000000	0.0000000	0.000000
Zr	89.904	Linear Thru Zero	0.0000000	0.0000000	0.000000
Mo	94.906	Linear Thru Zero	0.0008207	0.9999961	0.000000
Mo	97.906	Linear Thru Zero	0.0013240	0.9999995	0.000000
Ru	98.906	Linear Thru Zero	0.0000000	0.0000000	0.000000
Ru	100.906	Linear Thru Zero	0.0000000	0.0000000	0.000000
Pd	105.903	Linear Thru Zero	0.0000000	0.0000000	0.000000
Pd	107.904	Linear Thru Zero	0.0000000	0.0000000	0.000000
Ag	106.905	Linear Thru Zero	0.0045772	0.9999877	0.000000
Ag	108.905	Linear Thru Zero	0.0043627	0.9999846	0.000000

Cd	110.904	Linear Thru Zero	0.0010572	0.9999910	0.000000
Cd	113.904	Linear Thru Zero	0.0024793	0.9999965	0.000000
In-1	114.904	Linear Thru Zero	0.0000000	0.0000000	0.000000
Sn	117.902	Linear Thru Zero	0.0032780	0.9999959	0.000000
Sb	120.904	Linear Thru Zero	0.0039190	0.9999932	0.000000
Sb	122.904	Linear Thru Zero	0.0030276	0.9999963	0.000000
Te	124.904	Linear Thru Zero	0.0000000	0.0000000	0.000000
Ba	134.906	Linear Thru Zero	0.0011324	0.9999997	0.000000
Ba	136.905	Linear Thru Zero	0.0019943	0.9999993	0.000000
La	138.906	Linear Thru Zero	0.0000000	0.0000000	0.000000
Tb-1	158.925	Linear Thru Zero	0.0000000	0.0000000	0.000000
Ho	164.930	Linear Thru Zero	0.0000000	0.0000000	0.000000
Au	196.967	Linear Thru Zero	0.0000000	0.0000000	0.000000
Hg	201.971	Linear Thru Zero	0.0000000	0.0000000	0.000000
Tl	202.972	Linear Thru Zero	0.0014529	0.9999988	0.000000
Tl	204.975	Linear Thru Zero	0.0036107	0.9999845	0.000000
Pb	207.977	Linear Thru Zero	0.0051012	0.9999966	0.000000
Bi	208.980	Linear Thru Zero	0.0042999	0.9999911	0.000000
Th-1	232.038	Linear Thru Zero	5877.2716078	1.0000000	0.000000
U-1	238.050	Linear Thru Zero	0.0046104	0.9999974	0.000000
Na	22.990	Weighted linear	0.0023883	0.9999116	0.030348
Mg	23.985	Weighted linear	0.0016243	0.9994913	0.016866
Mg	24.986	Weighted linear	0.0002301	0.9994847	0.001464
Si	27.977	Weighted linear	0.0013907	0.9997932	0.018794
P	30.994	Weighted linear	0.0001688	0.9989858	0.003698
K	38.964	Weighted linear	0.0048172	0.9996402	0.055218
Sc-1	44.956	Linear Thru Zero	0.0000000	0.0000000	0.000000
Ca	42.959	Weighted linear	0.0000037	0.9999778	0.000041
Ti	47.948	Linear Thru Zero	0.0016032	0.9999978	0.000000
Fe	53.940	Linear Thru Zero	0.0001499	0.9999490	0.000000
Fe	55.935	Linear Thru Zero	0.0023141	0.9999994	0.000000
Fe	56.935	Linear Thru Zero	0.0000586	0.9999433	0.000000
Ge-1	73.922	Linear Thru Zero	0.0000000	0.0000000	0.000000
Sc	44.956	Linear Thru Zero	0.0000000	0.0000000	0.000000
Ge	73.922	Linear Thru Zero	0.0000000	0.0000000	0.000000
In	114.904	Linear Thru Zero	0.0000000	0.0000000	0.000000
Tb	158.925	Linear Thru Zero	0.0000000	0.0000000	0.000000
Th	232.038	Linear Thru Zero	0.0000000	0.0000000	0.000000

SGS ALASKA

ELAN 6100 ICP-MS P3

Sample ID: Blank

Sample Type:

Sample Description:

Sample Date/Time: Tuesday, August 22, 2006 14:43:24

Dataset File: C:\elandata\Dataset\08.22.2006p3a\Blank.001

Method File: c:\elandata\Method\SGS6020_4ALL.mth

Dual Detector Mode: Dual

Diluted To Volume (mL):

Autosampler Position: 1

Analyte	Mass	Conc. Mean	Report Unit	Meas. Intens. Mean	Blank Intensity	Meas. Intens. RSD
Li-1	7		ug/L	156.670		13.952
Be	9		ug/L	17.778		57.282
B	11		ug/L	1863.486		0.716
Al	27		ug/L	1686.795		6.334
Sc-2	45		ug/L	1247495.643		3.836
V	51		ug/L	-43601.995		16.012
Cr	52		ug/L	28867.410		2.771
Cr	53		ug/L	234673.666		1.266
Mn	55		ug/L	2279.109		3.006
Co	59		ug/L	181.115		13.058
Ni	58		ug/L	-2187.641		10.672
Ni	60		ug/L	42.223		35.599
Cu	63		ug/L	113.336		2.941
Cu	65		ug/L	84.446		12.059
Zn	66		ug/L	253.340		8.217
Zn	67		ug/L	20499.487		2.030
Zn	68		ug/L	1981.282		6.640
Ge-1	74		ug/L	3681570.357		3.559
As	75		ug/L	42.971		1227.666
Se	77		ug/L	11676.076		1.150
Se	82		ug/L	381.123		5.824
Kr	83		ug/L	201.116		9.712
Sr	88		ug/L	530.019		12.626
Zr	90		ug/L	2694.744		2.549
Mo	95		ug/L	676.694		12.433
Mo	98		ug/L	1038.704		8.483
Ru	99		ug/L	17.778		47.186
Ru	101		ug/L	12.222		62.984
Pd	106		mg/L	1916.827		2.051
Pd	108		mg/L	42.223		16.434
Ag	107		ug/L	270.007		21.632
Ag	109		ug/L	220.005		20.384
Cd	111		ug/L	1484.662		1.016
Cd	114		ug/L	2263.436		0.631
In-1	115		ug/L	1768022.782		1.697

Data derived from 3 replicate readings.

Sample ID: Blank

|	Sn	118	ug/L	1712.354	6.586
|	Sb	121	ug/L	475.572	14.199
|	Sb	123	ug/L	335.565	9.014
|	Te	125	ug/L	31.112	12.372
|	Ba	135	ug/L	82.224	6.193
L	Ba	137	ug/L	103.335	3.226
┌	La	139	ug/L	230.006	8.696
|>	Tb-1	159	ug/L	2328432.057	1.647
|	Ho	165	ug/L	16.667	52.915
L	Au	197	ug/L	22.223	37.749
┌	Hg	202	ug/L	21.111	45.580
|	Tl	203	ug/L	2386.907	9.082
|	Tl	205	ug/L	6033.598	4.444
|	Pb	208	ug/L	1025.587	6.187
|	Bi	209	ug/L	3918.381	2.075
|>	Th-1	232	ug/L	5844377.976	2.679
L	U-1	238	ug/L	8473.768	4.496
┌	Na	23	ug/L	4756.427	2.953
|	Mg	24	ug/L	275.563	13.325
|	Mg	25	ug/L	42.223	12.059
|	Si	28	ug/L	37898.624	1.844
|	P	31	ug/L	7782.250	2.938
|	K	39	ug/L	847915.570	0.304
|>	Sc-1	45	ug/L	1247495.643	3.836
┌	Ca	43	ug/L	477.794	4.088
|	Ti	48	ug/L	70.869	526.858
|	Fe	54	ug/L	58414.330	2.973
|	Fe	56	ug/L	2339675.093	0.343
|	Fe	57	ug/L	12878.247	4.503
|>	Ge-1	74	ug/L	3681570.357	3.559
	Sc	45	ug/L	1247495.643	3.836
	Ge	74	ug/L	3681570.357	3.559
	In	115	ug/L	1768022.782	1.697
	Tb	159	ug/L	2328432.057	1.647
	Th	232	mg/L	5844377.976	2.679

QC Calculated Values

Analyte	Mass	QC % rec.	Spike % rec.	RPD %	I.S. % rec.
Li-1	7				
Be	9				
B	11				
Al	27				
Sc-2	45				
V	51				
Cr	52				
Cr	53				
Mn	55				
Co	59				
Ni	58				
Ni	60				
Cu	63				

Data derived from 3 replicate readings.

Sample ID: Blank

Cu	65
Zn	66
Zn	67
Zn	68
Ge-1	74
As	75
Se	77
Se	82
Kr	83
Sr	88
Zr	90
Mo	95
Mo	98
Ru	99
Ru	101
Pd	106
Pd	108
Ag	107
Ag	109
Cd	111
Cd	114
In-1	115
Sn	118
Sb	121
Sb	123
Te	125
Ba	135
Ba	137
La	139
Tb-1	159
Ho	165
Au	197
Hg	202
Tl	203
Tl	205
Pb	208
Bi	209
Th-1	232
U-1	238
Na	23
Mg	24
Mg	25
Si	28
P	31
K	39
Sc-1	45
Ca	43
Ti	48
Fe	54
Fe	56
Fe	57
Ge-1	74
Sc	45
Ge	74

Data derived from 3 replicate readings.

Sample ID: Blank

In 115
Tb 159
Th 232

QC Out Of Limits

MassAnalyte Out of Limits Message

Data derived from 3 replicate readings.

Sample ID: Blank

SGS ALASKA

ELAN 6100 ICP-MS P3

Sample ID: Standard 1

Sample Type:

Sample Description:

Sample Date/Time: Tuesday, August 22, 2006 14:47:44

Dataset File: C:\elandata\Dataset\08.22.2006p3a\Standard 1.002

Method File: c:\elandata\Method\SGS6020_4ALL.mth

Dual Detector Mode: Dual

Diluted To Volume (mL):

Autosampler Position: 12

Analyte	Mass	Conc. Mean	Report Unit	Meas. Intens. Mean	Blank Intensity	Meas. Intens. RSD
Li-1	7		ug/L	313.342	156.670	9.089
Be	9	0.200	ug/L	60.001	17.778	11.111
B	11		ug/L	7163.028	1863.486	4.324
Al	27		ug/L	3033.706	1686.795	4.040
Sc-2	45		ug/L	1222496.953	1247495.643	1.762
V	51		ug/L	-36887.301	-43601.995	24.935
Cr	52		ug/L	27435.677	28867.410	2.519
Cr	53		ug/L	211915.053	234673.666	1.493
Mn	55	0.200	ug/L	4399.640	2279.109	2.254
Co	59	0.200	ug/L	2117.971	181.115	6.782
Ni	58	0.200	ug/L	-1049.424	-2187.641	11.811
Ni	60	0.200	ug/L	511.129	42.223	10.861
Cu	63		ug/L	1024.498	113.336	3.259
Cu	65		ug/L	508.906	84.446	2.480
Zn	66		ug/L	727.808	253.340	3.674
Zn	67		ug/L	18772.647	20499.487	3.167
Zn	68		ug/L	2166.868	1981.282	6.346
Ge-1	74		ug/L	3585470.264	3681570.357	1.319
As	75		ug/L	13.888	42.971	8860.731
Se	77		ug/L	10531.837	11676.076	3.302
Se	82		ug/L	350.010	381.123	2.520
Kr	83		ug/L	183.338	201.116	9.621
Sr	88		ug/L	652.248	530.019	3.590
Zr	90		ug/L	2039.068	2694.744	1.410
Mo	95	0.200	ug/L	1075.614	676.694	3.314
Mo	98	0.200	ug/L	1616.668	1038.704	2.489
Ru	99		ug/L	13.334	17.778	50.000
Ru	101		ug/L	11.111	12.222	17.321
Pd	106		mg/L	1851.262	1916.827	5.063
Pd	108		mg/L	73.335	42.223	27.649
Ag	107	0.200	ug/L	1987.950	270.007	7.341
Ag	109	0.200	ug/L	1879.044	220.005	3.487
Cd	111	0.200	ug/L	1842.316	1484.662	3.358
Cd	114	0.200	ug/L	3080.562	2263.436	2.840
In-1	115		ug/L	1750423.001	1768022.782	0.476

Data derived from 3 replicate readings.

Sample ID: Standard 1

|	Sn	118	0.200	ug/L	2408.021	1712.354	3.432
|	Sb	121	0.200	ug/L	1826.814	475.572	4.937
|	Sb	123	0.200	ug/L	1474.545	335.565	3.505
|	Te	125		ug/L	17.778	31.112	47.186
|	Ba	135	0.200	ug/L	505.573	82.224	4.488
|	Ba	137	0.200	ug/L	902.266	103.335	2.621
|	La	139		ug/L	211.116	230.006	18.300
>	Tb-1	159		ug/L	2332692.935	2328432.057	2.652
|	Ho	165		ug/L	12.222	16.667	31.492
|	Au	197		ug/L	38.890	22.223	43.985
|	Hg	202		ug/L	35.556	21.111	37.889
|	Tl	203	0.200	ug/L	3584.954	2386.907	2.744
|	Tl	205	0.200	ug/L	8788.405	6033.598	2.338
|	Pb	208	0.200	ug/L	7647.601	1025.587	1.376
|	Bi	209	0.200	ug/L	9637.858	3918.381	3.498
>	Th-1	232		ug/L	5857826.360	5844377.976	1.160
|	U-1	238		ug/L	11463.688	8473.768	5.939
|	Na	23		ug/L	76456.437	4756.427	0.618
|	Mg	24		ug/L	46944.462	275.563	1.284
|	Mg	25		ug/L	6454.900	42.223	2.955
|	Si	28		ug/L	76721.191	37898.624	0.786
|	P	31		ug/L	11830.669	7782.250	7.661
|	K	39		ug/L	984949.484	847915.570	0.599
>	Sc-1	45		ug/L	1222496.953	1247495.643	1.762
|	Ca	43		ug/L	817.815	477.794	12.346
|	Ti	48	10.000	ug/L	127338.519	70.869	3.584
|	Fe	54		ug/L	59990.015	58414.330	0.489
|	Fe	56		ug/L	2442359.322	2339675.093	1.399
|	Fe	57		ug/L	17396.437	12878.247	2.883
>	Ge-1	74		ug/L	3585470.264	3681570.357	1.319
|	Sc	45		ug/L	1222496.953	1247495.643	1.762
|	Ge	74		ug/L	3585470.264	3681570.357	1.319
|	In	115		ug/L	1750423.001	1768022.782	0.476
|	Tb	159		ug/L	2332692.935	2328432.057	2.652
|	Th	232		mg/L	5857826.360	5844377.976	1.160

QC Calculated Values

Analyte	Mass	QC % rec.	Spike % rec.	RPD %	I.S. % rec.
Li-1	7				
Be	9				
B	11				
Al	27				
Sc-2	45				
V	51				
Cr	52				
Cr	53				
Mn	55				
Co	59				
Ni	58				
Ni	60				
Cu	63				

Data derived from 3 replicate readings.

Sample ID: Standard 1

Cu	65
Zn	66
Zn	67
Zn	68
Ge-1	74
As	75
Se	77
Se	82
Kr	83
Sr	88
Zr	90
Mo	95
Mo	98
Ru	99
Ru	101
Pd	106
Pd	108
Ag	107
Ag	109
Cd	111
Cd	114
In-1	115
Sn	118
Sb	121
Sb	123
Te	125
Ba	135
Ba	137
La	139
Tb-1	159
Ho	165
Au	197
Hg	202
Tl	203
Tl	205
Pb	208
Bi	209
Th-1	232
U-1	238
Na	23
Mg	24
Mg	25
Si	28
P	31
K	39
Sc-1	45
Ca	43
Ti	48
Fe	54
Fe	56
Fe	57
Ge-1	74
Sc	45
Ge	74

Data derived from 3 replicate readings.

Sample ID: Standard 1

In 115
Tb 159
Th 232

QC Out Of Limits

MassAnalyte Out of Limits Message

SGS ALASKA

ELAN 6100 ICP-MS P3

Sample ID: Standard 2

Sample Type:

Sample Description:

Sample Date/Time: Tuesday, August 22, 2006 14:52:04

Dataset File: C:\elandata\Dataset\08.22.2006p3a\Standard 2.003

Method File: c:\elandata\Method\SGS6020_4ALL.mth

Dual Detector Mode: Dual

Diluted To Volume (mL):

Autosampler Position: 2

Analyte	Mass	Conc. Mean	Report Unit	Meas. Intens. Mean	Blank Intensity	Meas. Intens. RSD
Li-1	7	1.000	ug/L	1047.834	156.670	8.371
Be	9	1.002	ug/L	241.117	17.778	9.808
B	11	100.000	ug/L	28864.076	1863.486	3.274
Al	27	1.000	ug/L	7987.922	1686.795	2.080
Sc-2	45		ug/L	1235029.725	1247495.643	4.572
V	51	1.000	ug/L	-798.027	-43601.995	13603.602
Cr	52	1.000	ug/L	47413.788	28867.410	0.740
Cr	53	1.000	ug/L	330593.384	234673.666	1.929
Mn	55	1.004	ug/L	14863.534	2279.109	2.012
Co	59	0.997	ug/L	9476.634	181.115	1.925
Ni	58	1.000	ug/L	3449.112	-2187.641	2.146
Ni	60	0.996	ug/L	2229.100	42.223	5.881
Cu	63	1.000	ug/L	4456.325	113.336	1.953
Cu	65	1.000	ug/L	2314.671	84.446	4.542
Zn	66	1.000	ug/L	1809.034	253.340	4.728
Zn	67	1.000	ug/L	31096.568	20499.487	2.998
Zn	68	1.000	ug/L	3550.501	1981.282	4.740
Ge-1	74		ug/L	3712811.607	3681570.357	2.028
As	75	1.000	ug/L	1668.187	42.971	167.832
Se	77	1.000	ug/L	18067.276	11676.076	1.349
Se	82	1.000	ug/L	607.801	381.123	2.761
Kr	83		ug/L	172.226	201.116	15.644
Sr	88		ug/L	798.925	530.019	3.786
Zr	90		ug/L	4601.929	2694.744	1.659
Mo	95	1.008	ug/L	3399.350	676.694	3.975
Mo	98	1.012	ug/L	5610.090	1038.704	3.137
Ru	99		ug/L	18.889	17.778	44.411
Ru	101		ug/L	10.000	12.222	33.333
Pd	106		mg/L	2254.660	1916.827	3.106
Pd	108		mg/L	183.338	42.223	10.123
Ag	107	1.000	ug/L	9025.225	270.007	3.313
Ag	109	0.999	ug/L	8442.637	220.005	3.505
Cd	111	1.003	ug/L	3541.516	1484.662	1.802
Cd	114	1.004	ug/L	6992.023	2263.436	2.342
In-1	115		ug/L	1774795.913	1768022.782	2.280

Data derived from 3 replicate readings.

Sample ID: Standard 2

|	Sn	118	1.017	ug/L	8156.909	1712.354	2.149
|	Sb	121	1.002	ug/L	7743.338	475.572	0.726
|	Sb	123	0.996	ug/L	5630.094	335.565	5.759
|	Te	125		ug/L	31.112	31.112	53.927
|	Ba	135	0.999	ug/L	2154.643	82.224	3.100
L	Ba	137	0.995	ug/L	3684.981	103.335	1.619
[	La	139		ug/L	271.118	230.006	8.187
>	Tb-1	159		ug/L	2388377.581	2328432.057	2.517
|	Ho	165		ug/L	12.222	16.667	41.660
L	Au	197		ug/L	37.778	22.223	18.368
[	Hg	202		ug/L	27.778	21.111	30.199
|	Tl	203	1.011	ug/L	10939.931	2386.907	4.669
|	Tl	205	1.013	ug/L	26754.364	6033.598	0.644
|	Pb	208	0.999	ug/L	33830.699	1025.587	4.006
|	Bi	209	1.000	ug/L	32913.991	3918.381	2.365
>	Th-1	232		ug/L	5949078.735	5844377.976	1.015
L	U-1	238	1.000	ug/L	41273.580	8473.768	2.425
[	Na	23		ug/L	336234.357	4756.427	0.865
|	Mg	24		ug/L	220647.483	275.563	2.483
|	Mg	25		ug/L	30136.705	42.223	1.433
|	Si	28		ug/L	231870.704	37898.624	1.507
|	P	31		ug/L	32995.285	7782.250	1.847
|	K	39		ug/L	1498410.343	847915.570	1.353
>	Sc-1	45		ug/L	1235029.725	1247495.643	4.572
[	Ca	43		ug/L	1992.394	477.794	1.805
|	Ti	48	98.899	ug/L	620315.246	70.869	1.983
|	Fe	54	100.000	ug/L	132528.294	58414.330	1.498
|	Fe	56	100.000	ug/L	3263698.859	2339675.093	0.744
|	Fe	57	100.000	ug/L	37644.609	12878.247	1.105
>	Ge-1	74		ug/L	3712811.607	3681570.357	2.028
	Sc	45		ug/L	1235029.725	1247495.643	4.572
	Ge	74		ug/L	3712811.607	3681570.357	2.028
	In	115		ug/L	1774795.913	1768022.782	2.280
	Tb	159		ug/L	2388377.581	2328432.057	2.517
	Th	232		mg/L	5949078.735	5844377.976	1.015

QC Calculated Values

Analyte	Mass	QC % rec.	Spike % rec.	RPD %	I.S. % rec.
Li-1	7				
Be	9				
B	11				
Al	27				
Sc-2	45				
V	51				
Cr	52				
Cr	53				
Mn	55				
Co	59				
Ni	58				
Ni	60				
Cu	63				

Data derived from 3 replicate readings.

Sample ID: Standard 2

Cu	65
Zn	66
Zn	67
Zn	68
Ge-1	74
As	75
Se	77
Se	82
Kr	83
Sr	88
Zr	90
Mo	95
Mo	98
Ru	99
Ru	101
Pd	106
Pd	108
Ag	107
Ag	109
Cd	111
Cd	114
In-1	115
Sn	118
Sb	121
Sb	123
Te	125
Ba	135
Ba	137
La	139
Tb-1	159
Ho	165
Au	197
Hg	202
Tl	203
Tl	205
Pb	208
Bi	209
Th-1	232
U-1	238
Na	23
Mg	24
Mg	25
Si	28
P	31
K	39
Sc-1	45
Ca	43
Ti	48
Fe	54
Fe	56
Fe	57
Ge-1	74
Sc	45
Ge	74

Data derived from 3 replicate readings.

Sample ID: Standard 2

In 115
Tb 159
Th 232

QC Out Of Limits

MassAnalyte Out of Limits Message

Data derived from 3 replicate readings.

Sample ID: Standard 2

SGS ALASKA

ELAN 6100 ICP-MS P3

Sample ID: Standard 3

Sample Type:

Sample Description:

Sample Date/Time: Tuesday, August 22, 2006 14:56:25

Dataset File: C:\elandata\Dataset\08.22.2006p3a\Standard 3.004

Method File: c:\elandata\Method\SGS6020_4ALL.mth

Dual Detector Mode: Dual

Diluted To Volume (mL):

Autosampler Position: 3

Analyte	Mass	Conc. Mean	Report Unit	Meas. Intens. Mean	Blank Intensity	Meas. Intens. RSD
Li-1	7	9.990	ug/L	8451.530	156.670	1.841
Be	9	10.007	ug/L	2469.143	17.778	0.413
B	11	999.440	ug/L	263461.125	1863.486	3.363
Al	27	9.953	ug/L	45508.705	1686.795	2.092
Sc-2	45		ug/L	1260165.920	1247495.643	1.823
V	51	9.846	ug/L	121156.420	-43601.995	85.646
Cr	52	9.885	ug/L	114731.137	28867.410	3.456
Cr	53	9.357	ug/L	359833.093	234673.666	3.690
Mn	55	9.993	ug/L	121275.211	2279.109	4.228
Co	59	9.999	ug/L	93652.166	181.115	3.089
Ni	58	9.995	ug/L	52616.024	-2187.641	3.211
Ni	60	9.989	ug/L	20148.983	42.223	2.006
Cu	63	9.996	ug/L	42269.868	113.336	3.610
Cu	65	9.997	ug/L	21947.214	84.446	1.537
Zn	66	9.983	ug/L	13712.363	253.340	1.715
Zn	67	9.418	ug/L	35558.142	20499.487	2.506
Zn	68	9.938	ug/L	11672.743	1981.282	3.440
Ge-1	74		ug/L	3761228.394	3681570.357	0.922
As	75	9.991	ug/L	15548.471	42.971	22.475
Se	77	9.385	ug/L	20306.983	11676.076	0.428
Se	82	9.953	ug/L	1924.606	381.123	3.342
Kr	83		ug/L	252.229	201.116	8.599
Sr	88		ug/L	1094.505	530.019	8.755
Zr	90		ug/L	18986.320	2694.744	8.592
Mo	95	10.009	ug/L	30779.212	676.694	3.157
Mo	98	10.009	ug/L	50895.089	1038.704	1.986
Ru	99		ug/L	18.889	17.778	26.956
Ru	101		ug/L	16.667	12.222	52.915
Pd	106		mg/L	3989.512	1916.827	0.395
Pd	108		mg/L	1512.328	42.223	5.656
Ag	107	9.997	ug/L	83493.677	270.007	2.730
Ag	109	9.999	ug/L	80030.475	220.005	1.742
Cd	111	9.999	ug/L	21352.720	1484.662	0.985
Cd	114	10.000	ug/L	48376.711	2263.436	1.526
In-1	115		ug/L	1735072.107	1768022.782	2.706

Data derived from 3 replicate readings.

Sample ID: Standard 3

|	Sn	118	9.994	ug/L	59987.836	1712.354	2.254
|	Sb	121	10.000	ug/L	71059.712	475.572	1.140
|	Sb	123	10.006	ug/L	55329.007	335.565	2.279
|	Te	125		ug/L	23.334	31.112	42.857
|	Ba	135	10.001	ug/L	20498.371	82.224	0.869
[	Ba	137	10.001	ug/L	35573.722	103.335	1.181
[	La	139		ug/L	346.677	230.006	4.191
>	Tb-1	159		ug/L	2327564.322	2328432.057	1.414
|	Ho	165		ug/L	3.333	16.667	100.000
[	Au	197		ug/L	21.111	22.223	32.868
[	Hg	202		ug/L	36.667	21.111	18.182
|	Tl	203	10.004	ug/L	90526.334	2386.907	1.069
|	Tl	205	10.005	ug/L	220804.873	6033.598	1.002
|	Pb	208	9.995	ug/L	317375.377	1025.587	1.211
|	Bi	209	9.992	ug/L	274079.008	3918.381	1.304
>	Th-1	232		ug/L	5986646.816	5844377.976	1.073
[	U-1	238	9.998	ug/L	330041.815	8473.768	1.784
[	Na	23	1000.000	ug/L	3091382.526	4756.427	4.116
|	Mg	24	1000.000	ug/L	2132201.097	275.563	2.342
|	Mg	25	1000.000	ug/L	300991.031	42.223	1.560
|	Si	28	1000.000	ug/L	1849306.730	37898.624	3.162
|	P	31	1000.000	ug/L	234707.611	7782.250	1.445
|	K	39	1000.000	ug/L	7156848.622	847915.570	1.691
>	Sc-1	45		ug/L	1260165.920	1247495.643	1.823
[	Ca	43	1000.000	ug/L	14516.504	477.794	1.671
|	Ti	48	999.289	ug/L	5931272.036	70.869	1.637
|	Fe	54	997.950	ug/L	677477.419	58414.330	1.707
|	Fe	56	999.572	ug/L	11178894.434	2339675.093	0.788
|	Fe	57	999.749	ug/L	256860.307	12878.247	2.266
>	Ge-1	74		ug/L	3761228.394	3681570.357	0.922
	Sc	45		ug/L	1260165.920	1247495.643	1.823
	Ge	74		ug/L	3761228.394	3681570.357	0.922
	In	115		ug/L	1735072.107	1768022.782	2.706
	Tb	159		ug/L	2327564.322	2328432.057	1.414
	Th	232		mg/L	5986646.816	5844377.976	1.073

QC Calculated Values

Analyte	Mass	QC % rec.	Spike % rec.	RPD %	I.S. % rec.
Li-1	7				
Be	9				
B	11				
Al	27				
Sc-2	45				
V	51				
Cr	52				
Cr	53				
Mn	55				
Co	59				
Ni	58				
Ni	60				
Cu	63				

Data derived from 3 replicate readings.

Sample ID: Standard 3

Cu	65
Zn	66
Zn	67
Zn	68
Ge-1	74
As	75
Se	77
Se	82
Kr	83
Sr	88
Zr	90
Mo	95
Mo	98
Ru	99
Ru	101
Pd	106
Pd	108
Ag	107
Ag	109
Cd	111
Cd	114
In-1	115
Sn	118
Sb	121
Sb	123
Te	125
Ba	135
Ba	137
La	139
Tb-1	159
Ho	165
Au	197
Hg	202
Tl	203
Tl	205
Pb	208
Bi	209
Th-1	232
U-1	238
Na	23
Mg	24
Mg	25
Si	28
P	31
K	39
Sc-1	45
Ca	43
Ti	48
Fe	54
Fe	56
Fe	57
Ge-1	74
Sc	45
Ge	74

Data derived from 3 replicate readings.

Sample ID: Standard 3

In 115
Tb 159
Th 232

QC Out Of Limits

MassAnalyte Out of Limits Message

Data derived from 3 replicate readings.

Sample ID: Standard 3

SGS ALASKA

ELAN 6100 ICP-MS P3

Sample ID: Standard 4

Sample Type:

Sample Description:

Sample Date/Time: Tuesday, August 22, 2006 15:00:46

Dataset File: C:\elandata\Dataset\08.22.2006p3a\Standard 4.005

Method File: c:\elandata\Method\SGS6020_4ALL.mth

Dual Detector Mode: Dual

Diluted To Volume (mL):

Autosampler Position: 4

Analyte	Mass	Conc. Mean	Report Unit	Meas. Intens. Mean	Blank Intensity	Meas. Intens. RSD
Li-1	7	99.908	ug/L	78357.851	156.670	1.038
Be	9	99.958	ug/L	24213.151	17.778	4.112
B	11	9998.801	ug/L	2661546.404	1863.486	2.834
Al	27	99.920	ug/L	421009.017	1686.795	2.721
Sc-2	45		ug/L	1296962.717	1247495.643	2.551
V	51	99.246	ug/L	882992.030	-43601.995	5.233
Cr	52	99.807	ug/L	731827.719	28867.410	1.009
Cr	53	94.776	ug/L	424949.548	234673.666	0.967
Mn	55	99.950	ug/L	1105629.617	2279.109	2.204
Co	59	99.956	ug/L	872120.409	181.115	1.054
Ni	58	99.970	ug/L	517047.272	-2187.641	2.099
Ni	60	99.939	ug/L	184900.442	42.223	3.012
Cu	63	99.934	ug/L	385705.374	113.336	5.578
Cu	65	99.934	ug/L	200064.756	84.446	3.900
Zn	66	99.951	ug/L	125394.550	253.340	1.636
Zn	67	96.146	ug/L	50549.034	20499.487	2.259
Zn	68	99.843	ug/L	83705.003	1981.282	3.610
Ge-1	74		ug/L	3666737.736	3681570.357	4.951
As	75	100.003	ug/L	151528.032	42.971	4.181
Se	77	96.220	ug/L	29255.995	11676.076	3.626
Se	82	99.960	ug/L	14833.510	381.123	4.527
Kr	83		ug/L	901.155	201.116	2.037
Sr	88		ug/L	4827.563	530.019	3.776
Zr	90		ug/L	68675.505	2694.744	13.220
Mo	95	100.026	ug/L	301379.609	676.694	2.212
Mo	98	100.000	ug/L	485661.564	1038.704	0.388
Ru	99		ug/L	58.890	17.778	37.689
Ru	101		ug/L	25.556	12.222	41.929
Pd	106		mg/L	20611.888	1916.827	4.400
Pd	108		mg/L	13465.467	42.223	5.012
Ag	107	99.950	ug/L	784991.493	270.007	4.122
Ag	109	99.944	ug/L	747731.968	220.005	1.978
Cd	111	99.958	ug/L	190202.158	1484.662	3.079
Cd	114	99.953	ug/L	437996.571	2263.436	1.292
In-1	115		ug/L	1715210.406	1768022.782	3.854

Data derived from 3 replicate readings.

Sample ID: Standard 4

|	Sn	118	99.974	ug/L	563594.179	1712.354	2.649
|	Sb	121	99.998	ug/L	697436.530	475.572	4.770
|	Sb	123	99.980	ug/L	533477.795	335.565	3.155
|	Te	125		ug/L	31.112	31.112	22.304
|	Ba	135	99.967	ug/L	195559.797	82.224	4.247
|	Ba	137	99.962	ug/L	338063.044	103.335	2.786
|	La	139		ug/L	1514.550	230.006	6.948
|>	Tb-1	159		ug/L	2276212.367	2328432.057	5.597
|	Ho	165		ug/L	18.889	16.667	71.320
|	Au	197		ug/L	41.112	22.223	9.362
|	Hg	202		ug/L	34.445	21.111	5.587
|	Tl	203	99.972	ug/L	845694.452	2386.907	4.138
|	Tl	205	99.949	ug/L	2015496.999	6033.598	4.290
|	Pb	208	99.936	ug/L	2931373.832	1025.587	4.577
|	Bi	209	99.904	ug/L	2432133.961	3918.381	3.518
|>	Th-1	232		ug/L	5895239.201	5844377.976	3.625
|	U-1	238	99.817	ug/L	2682063.191	8473.768	0.528
|	Na	23	9880.954	ug/L	30625224.578	4756.427	3.962
|	Mg	24	9714.268	ug/L	20474783.942	275.563	1.692
|	Mg	25	9712.412	ug/L	2897997.135	42.223	3.158
|	Si	28	9817.856	ug/L	17755545.669	37898.624	3.202
|	P	31	9596.375	ug/L	2113039.198	7782.250	1.727
|	K	39	9759.700	ug/L	61921170.468	847915.570	2.029
|>	Sc-1	45		ug/L	1296962.717	1247495.643	2.551
|	Ca	43	9940.366	ug/L	134005.638	477.794	1.193
|	Ti	48	10001.589	ug/L	58731825.943	70.869	1.775
|	Fe	54	9990.109	ug/L	5545504.346	58414.330	3.039
|	Fe	56	9998.966	ug/L	87050505.989	2339675.093	2.036
|	Fe	57	9989.299	ug/L	2157016.002	12878.247	2.761
|>	Ge-1	74		ug/L	3666737.736	3681570.357	4.951
|	Sc	45		ug/L	1296962.717	1247495.643	2.551
|	Ge	74		ug/L	3666737.736	3681570.357	4.951
|	In	115		ug/L	1715210.406	1768022.782	3.854
|	Tb	159		ug/L	2276212.367	2328432.057	5.597
|	Th	232		mg/L	5895239.201	5844377.976	3.625

QC Calculated Values

Analyte	Mass	QC % rec.	Spike % rec.	RPD %	I.S. % rec.
Li-1	7				
Be	9				
B	11				
Al	27				
Sc-2	45				
V	51				
Cr	52				
Cr	53				
Mn	55				
Co	59				
Ni	58				
Ni	60				
Cu	63				

Data derived from 3 replicate readings.

Sample ID: Standard 4

Cu	65
Zn	66
Zn	67
Zn	68
Ge-1	74
As	75
Se	77
Se	82
Kr	83
Sr	88
Zr	90
Mo	95
Mo	98
Ru	99
Ru	101
Pd	106
Pd	108
Ag	107
Ag	109
Cd	111
Cd	114
In-1	115
Sn	118
Sb	121
Sb	123
Te	125
Ba	135
Ba	137
La	139
Tb-1	159
Ho	165
Au	197
Hg	202
Tl	203
Tl	205
Pb	208
Bi	209
Th-1	232
U-1	238
Na	23
Mg	24
Mg	25
Si	28
P	31
K	39
Sc-1	45
Ca	43
Ti	48
Fe	54
Fe	56
Fe	57
Ge-1	74
Sc	45
Ge	74

Data derived from 3 replicate readings.

Sample ID: Standard 4

In 115
Tb 159
Th 232

QC Out Of Limits

MassAnalyte Out of Limits Message

Data derived from 3 replicate readings.

Sample ID: Standard 4

SGS ALASKA

ELAN 6100 ICP-MS P3

Sample ID: Standard 5

Sample Type:

Sample Description:

Sample Date/Time: Tuesday, August 22, 2006 15:06:30

Dataset File: C:\elandata\Dataset\08.22.2006p3a\Standard 5.006

Method File: c:\elandata\Method\SGS6020_4ALL.mth

Dual Detector Mode: Dual

Diluted To Volume (mL):

Autosampler Position: 8

Analyte	Mass	Conc. Mean	Report Unit	Meas. Intens. Mean	Blank Intensity	Meas. Intens. RSD
Li-1	7	1000.896	ug/L	794846.253	156.670	1.716
Be	9	1000.902	ug/L	245763.471	17.778	0.919
B	11	41.316	ug/L	11960.771	1863.486	5.886
Al	27	997.982	ug/L	3228325.591	1686.795	1.732
Sc-2	45		ug/L	1198491.713	1247495.643	2.654
V	51	997.826	ug/L	7304164.890	-43601.995	3.277
Cr	52	999.309	ug/L	6334198.665	28867.410	0.865
Cr	53	988.767	ug/L	1129443.759	234673.666	1.188
Mn	55	999.812	ug/L	10361769.866	2279.109	1.566
Co	59	999.696	ug/L	8097797.215	181.115	0.579
Ni	58	997.219	ug/L	3882259.413	-2187.641	1.733
Ni	60	999.943	ug/L	1757161.578	42.223	1.108
Cu	63	999.794	ug/L	3611359.634	113.336	3.927
Cu	65	999.216	ug/L	1773988.321	84.446	3.410
Zn	66	998.378	ug/L	1030380.377	253.340	1.316
Zn	67	995.021	ug/L	219500.616	20499.487	1.315
Zn	68	999.900	ug/L	776790.844	1981.282	2.124
Ge-1	74		ug/L	3506232.741	3681570.357	4.287
As	75	999.703	ug/L	1406064.907	42.971	0.863
Se	77	994.128	ug/L	121307.126	11676.076	0.922
Se	82	999.923	ug/L	137535.777	381.123	1.917
Kr	83		ug/L	252.229	201.116	18.328
Sr	88		ug/L	994.496	530.019	3.971
Zr	90		ug/L	3694.985	2694.744	4.801
Mo	95	972.266	ug/L	2795332.797	676.694	0.687
Mo	98	959.588	ug/L	4448050.372	1038.704	1.885
Ru	99		ug/L	377.789	17.778	6.260
Ru	101		ug/L	102.224	12.222	34.868
Pd	106		mg/L	171633.367	1916.827	1.183
Pd	108		mg/L	125517.825	42.223	1.408
Ag	107	0.029	ug/L	473.349	270.007	6.791
Ag	109	0.037	ug/L	478.905	220.005	7.667
Cd	111	999.575	ug/L	1765209.753	1484.662	2.300
Cd	114	999.737	ug/L	4139175.177	2263.436	2.304
In-1	115		ug/L	1669128.936	1768022.782	1.338

Data derived from 3 replicate readings.

Sample ID: Standard 5

|	Sn	118	993.297	ug/L	5435772.324	1712.354	0.263
|	Sb	121	999.630	ug/L	6538493.670	475.572	0.893
|	Sb	123	999.726	ug/L	5052513.977	335.565	1.887
|	Te	125		ug/L	43.334	31.112	46.791
|	Ba	135	999.933	ug/L	1889976.156	82.224	1.382
|	Ba	137	1000.113	ug/L	3329132.458	103.335	1.741
|	La	139		ug/L	2857.001	230.006	7.610
>	Tb-1	159		ug/L	2278073.509	2328432.057	0.712
|	Ho	165		ug/L	31.112	16.667	12.372
|	Au	197		ug/L	53.334	22.223	12.500
|	Hg	202		ug/L	44.445	21.111	18.875
|	Tl	203	1000.153	ug/L	8541184.426	2386.907	2.207
|	Tl	205	1000.558	ug/L	21236675.739	6033.598	2.835
|	Pb	208	1000.253	ug/L	29985778.888	1025.587	0.030
|	Bi	209	1000.414	ug/L	25284698.327	3918.381	1.132
>	Th-1	232		ug/L	5877271.608	5844377.976	1.419
|	U-1	238	1000.139	ug/L	27103670.740	8473.768	1.742
|	Na	23	-6.845	ug/L	21341.848	4756.427	2.578
|	Mg	24	-9.748	ug/L	1503.438	275.563	3.991
|	Mg	25	-5.158	ug/L	372.233	42.223	12.420
|	Si	28	50.144	ug/L	142484.061	37898.624	2.171
|	P	31	-5.227	ug/L	10872.180	7782.250	17.570
|	K	39	-9.947	ug/L	823085.065	847915.570	0.802
>	Sc-1	45		ug/L	1198491.713	1247495.643	2.654
|	Ca	43	14.530	ug/L	784.479	477.794	2.008
|	Ti	48	4.963	ug/L	27806.383	70.869	15.751
|	Fe	54	112.104	ug/L	114337.664	58414.330	7.121
|	Fe	56	4.773	ug/L	2263688.518	2339675.093	1.508
|	Fe	57	12.484	ug/L	14812.369	12878.247	2.112
>	Ge-1	74		ug/L	3506232.741	3681570.357	4.287
|	Sc	45		ug/L	1198491.713	1247495.643	2.654
|	Ge	74		ug/L	3506232.741	3681570.357	4.287
|	In	115		ug/L	1669128.936	1768022.782	1.338
|	Tb	159		ug/L	2278073.509	2328432.057	0.712
|	Th	232		mg/L	5877271.608	5844377.976	1.419

QC Calculated Values

Analyte	Mass	QC % rec.	Spike % rec.	RPD %	I.S. % rec.
Li-1	7				
Be	9				
B	11				
Al	27				
Sc-2	45				
V	51				
Cr	52				
Cr	53				
Mn	55				
Co	59				
Ni	58				
Ni	60				
Cu	63				

Data derived from 3 replicate readings.

Sample ID: Standard 5

Cu	65
Zn	66
Zn	67
Zn	68
Ge-1	74
As	75
Se	77
Se	82
Kr	83
Sr	88
Zr	90
Mo	95
Mo	98
Ru	99
Ru	101
Pd	106
Pd	108
Ag	107
Ag	109
Cd	111
Cd	114
In-1	115
Sn	118
Sb	121
Sb	123
Te	125
Ba	135
Ba	137
La	139
Tb-1	159
Ho	165
Au	197
Hg	202
Tl	203
Tl	205
Pb	208
Bi	209
Th-1	232
U-1	238
Na	23
Mg	24
Mg	25
Si	28
P	31
K	39
Sc-1	45
Ca	43
Ti	48
Fe	54
Fe	56
Fe	57
Ge-1	74
Sc	45
Ge	74

Data derived from 3 replicate readings.

Sample ID: Standard 5

In 115
Tb 159
Th 232

QC Out Of Limits

MassAnalyte Out of Limits Message

SGS ALASKA

Calibration Type: External Calibration
File Name 08.24.2006p3.cal

P-E ELAN 6100 ICP-MS P3 CALIBRATION SUMMARY

Analyte	Mass	Std 1	Std 2	Std 3	Std 4	Std 5
Li-1	7.016		1.000	10.000	100.000	1000.000
Be	9.012	0.200	1.000	10.000	100.000	1000.000
B	11.009		100.000	1000.000	10000.000	
Al	26.982		1.000	10.000	100.000	1000.000
Sc-2	44.956					
V	50.944		1.000	10.000	100.000	1000.000
Cr	51.941		1.000	10.000	100.000	1000.000
Cr	52.941		1.000	10.000	100.000	1000.000
Mn	54.938	0.200	1.000	10.000	100.000	1000.000
Co	58.933	0.200	1.000	10.000	100.000	1000.000
Ni	57.935	0.200	1.000	10.000	100.000	1000.000
Ni	59.933	0.200	1.000	10.000	100.000	1000.000
Cu	62.930		1.000	10.000	100.000	1000.000
Cu	64.928		1.000	10.000	100.000	1000.000
Zn	65.926		1.000	10.000	100.000	1000.000
Zn	66.927		1.000	10.000	100.000	1000.000
Zn	67.925		1.000	10.000	100.000	1000.000
Ge-1	73.922					
As	74.922		1.000	10.000	100.000	1000.000
Se	76.920		1.000	10.000	100.000	1000.000
Se	81.917		1.000	10.000	100.000	1000.000
Kr	82.914					
Sr	87.906					
Zr	89.904					
Mo	94.906	0.200	1.000	10.000	100.000	
Mo	97.906	0.200	1.000	10.000	100.000	
Ru	98.906					
Ru	100.906					
Pd	105.903					
Pd	107.904					
Ag	106.905	0.200	1.000	10.000	100.000	
Ag	108.905	0.200	1.000	10.000	100.000	
Cd	110.904	0.200	1.000	10.000	100.000	1000.000
Cd	113.904	0.200	1.000	10.000	100.000	1000.000
In-1	114.904					
Sn	117.902	0.200	1.000	10.000	100.000	
Sb	120.904	0.200	1.000	10.000	100.000	1000.000
Sb	122.904	0.200	1.000	10.000	100.000	1000.000
Te	124.904					
Ba	134.906	0.200	1.000	10.000	100.000	1000.000
Ba	136.905	0.200	1.000	10.000	100.000	1000.000
La	138.906					
Tb-1	158.925					
Ho	164.930					
Au	196.967					
Hg	201.971					
Tl	202.972	0.200	1.000	10.000	100.000	1000.000

Tl	204.975	0.200	1.000	10.000	100.000	1000.000
Pb	207.977	0.200	1.000	10.000	100.000	1000.000
Bi	208.980	0.200	1.000	10.000	100.000	1000.000
Th-1	232.038					1000.000
U-1	238.050		1.000	10.000	100.000	1000.000
Na	22.990		100.000	1000.000	10000.000	
Mg	23.985		100.000	1000.000	10000.000	
Mg	24.986		100.000	1000.000	10000.000	
Si	27.977		100.000	1000.000	10000.000	
P	30.994		100.000	1000.000	10000.000	
K	38.964		100.000	1000.000	10000.000	
Sc-1	44.956					
Ca	42.959		100.000	1000.000	10000.000	
Ti	47.948	10.000	100.000	1000.000	10000.000	
Fe	53.940		100.000	1000.000	10000.000	
Fe	55.935		100.000	1000.000	10000.000	
Fe	56.935		100.000	1000.000	10000.000	
Ge-1	73.922					
Sc	44.956					
Ge	73.922					
In	114.904					
Tb	158.925					
Th	232.038					

Analyte	Mass	Curve T	Slope	Corr. Coeff.	Intercept
Li-1	7.016	Linear Thru Zero	0.0006641	0.9999828	0.000000
Be	9.012	Linear Thru Zero	0.0002066	0.9999700	0.000000
B	11.009	Linear Thru Zero	0.0002111	0.9999992	0.000000
Al	26.982	Linear Thru Zero	0.0032135	0.9998869	0.000000
Sc-2	44.956	Linear Thru Zero	0.0000000	0.0000000	0.000000
V	50.944	Linear Thru Zero	0.0025049	0.9997159	0.000000
Cr	51.941	Linear Thru Zero	0.0021503	0.9999942	0.000000
Cr	52.941	Linear Thru Zero	0.0002798	0.9941130	0.000000 <i>NA kw 8/29/06</i>
Mn	54.938	Linear Thru Zero	0.0034615	0.9999970	0.000000
Co	58.933	Linear Thru Zero	0.0026693	0.9999997	0.000000
Ni	57.935	Linear Thru Zero	0.0012715	0.9996353	0.000000
Ni	59.933	Linear Thru Zero	0.0005708	0.9999944	0.000000
Cu	62.930	Linear Thru Zero	0.0011694	0.9999911	0.000000
Cu	64.928	Linear Thru Zero	0.0005663	0.9999578	0.000000
Zn	65.926	Linear Thru Zero	0.0003326	0.9999143	0.000000
Zn	66.927	Linear Thru Zero	0.0000616	0.9990961	0.000000
Zn	67.925	Linear Thru Zero	0.0002483	0.9999978	0.000000
Ge-1	73.922	Linear Thru Zero	0.0000000	0.0000000	0.000000
As	74.922	Linear Thru Zero	0.0004521	0.9999962	0.000000
Se	76.920	Linear Thru Zero	0.0000347	0.9949559	0.000000 <i>NA kw 8/29/06</i>
Se	81.917	Linear Thru Zero	0.0000429	0.9999987	0.000000
Kr	82.914	Linear Thru Zero	0.0000000	0.0000000	0.000000
Sr	87.906	Linear Thru Zero	0.0000000	0.0000000	0.000000
Zr	89.904	Linear Thru Zero	0.0000000	0.0000000	0.000000
Mo	94.906	Linear Thru Zero	0.0009210	0.9999999	0.000000
Mo	97.906	Linear Thru Zero	0.0014788	0.9999999	0.000000
Ru	98.906	Linear Thru Zero	0.0000000	0.0000000	0.000000
Ru	100.906	Linear Thru Zero	0.0000000	0.0000000	0.000000
Pd	105.903	Linear Thru Zero	0.0000000	0.0000000	0.000000
Pd	107.904	Linear Thru Zero	0.0000000	0.0000000	0.000000
Ag	106.905	Linear Thru Zero	0.0056678	0.9999388	0.000000
Ag	108.905	Linear Thru Zero	0.0054514	0.9999598	0.000000

Cd	110.904	Linear Thru Zero	0.0013015	0.9999918	0.000000
Cd	113.904	Linear Thru Zero	0.0030344	0.9999993	0.000000
In-1	114.904	Linear Thru Zero	0.0000000	0.0000000	0.000000
Sn	117.902	Linear Thru Zero	0.0040280	0.9999967	0.000000
Sb	120.904	Linear Thru Zero	0.0047690	0.9999928	0.000000
Sb	122.904	Linear Thru Zero	0.0036573	0.9999920	0.000000
Te	124.904	Linear Thru Zero	0.0000000	0.0000000	0.000000
Ba	134.906	Linear Thru Zero	0.0013535	0.9999894	0.000000
Ba	136.905	Linear Thru Zero	0.0024156	0.9999995	0.000000
La	138.906	Linear Thru Zero	0.0000000	0.0000000	0.000000
Tb-1	158.925	Linear Thru Zero	0.0000000	0.0000000	0.000000
Ho	164.930	Linear Thru Zero	0.0000000	0.0000000	0.000000
Au	196.967	Linear Thru Zero	0.0000000	0.0000000	0.000000
Hg	201.971	Linear Thru Zero	0.0000000	0.0000000	0.000000
Tl	202.972	Linear Thru Zero	0.0017904	0.9999824	0.000000
Tl	204.975	Linear Thru Zero	0.0043433	0.9999898	0.000000
Pb	207.977	Linear Thru Zero	0.0062762	0.9999870	0.000000
Bi	208.980	Linear Thru Zero	0.0052557	0.9999795	0.000000
Th-1	232.038	Linear Thru Zero	4473.2163265	1.0000000	0.000000
U-1	238.050	Linear Thru Zero	0.0054836	0.9999871	0.000000
Na	22.990	Weighted linear	0.0027444	0.9998892	0.031367
Mg	23.985	Weighted linear	0.0019029	0.9998869	0.016602
Mg	24.986	Weighted linear	0.0002687	0.9996179	0.001752
Si	27.977	Weighted linear	0.0016046	0.9996500	0.021085
P	30.994	Weighted linear	0.0001987	0.9996676	0.003719
K	38.964	Weighted linear	0.0060432	0.9999985	0.037069
Sc-1	44.956	Linear Thru Zero	0.0000000	0.0000000	0.000000
Ca	42.959	Weighted linear	0.0000044	0.9999013	0.000040
Ti	47.948	Linear Thru Zero	0.0018825	0.9999989	0.000000
Fe	53.940	Linear Thru Zero	0.0001735	0.9999489	0.000000
Fe	55.935	Linear Thru Zero	0.0026475	0.9999957	0.000000
Fe	56.935	Linear Thru Zero	0.0000680	0.9999304	0.000000
Ge-1	73.922	Linear Thru Zero	0.0000000	0.0000000	0.000000
Sc	44.956	Linear Thru Zero	0.0000000	0.0000000	0.000000
Ge	73.922	Linear Thru Zero	0.0000000	0.0000000	0.000000
In	114.904	Linear Thru Zero	0.0000000	0.0000000	0.000000
Tb	158.925	Linear Thru Zero	0.0000000	0.0000000	0.000000
Th	232.038	Linear Thru Zero	0.0000000	0.0000000	0.000000

SGS ALASKA

ELAN 6100 ICP-MS P3

Sample ID: Blank

Sample Type:

Sample Description:

Sample Date/Time: Thursday, August 24, 2006 12:45:50

Dataset File: C:\elandata\Dataset\08.24.2006p3\Blank.001

Method File: c:\elandata\Method\SGS6020_4ALL.mth

Dual Detector Mode: Dual

Diluted To Volume (mL):

Autosampler Position: 1

Analyte	Mass	Conc. Mean	Report Unit	Meas. Intens. Mean	Blank Intensity	Meas. Intens. RSD
[Li-1	7		ug/L	176.671		6.536
| Be	9		ug/L	17.778		21.651
| B	11		ug/L	906.711		5.416
| Al	27		ug/L	2586.944		4.259
> Sc-2	45		ug/L	1096474.822		1.164
[V	51		ug/L	-4778.474		2107.802
| Cr	52		ug/L	55325.672		2.599
| Cr	53		ug/L	376605.275		1.450
| Mn	55		ug/L	4985.399		5.293
| Co	59		ug/L	106.669		11.267
| Ni	58		ug/L	-2449.976		10.968
| Ni	60		ug/L	52.223		22.416
| Cu	63		ug/L	210.005		17.169
| Cu	65		ug/L	115.558		17.388
| Zn	66		ug/L	578.910		3.834
| Zn	67		ug/L	32168.940		1.179
| Zn	68		ug/L	3211.526		5.328
> Ge-1	74		ug/L	3347921.230		1.335
| As	75		ug/L	-1364.861		137.871
| Se	77		ug/L	22582.656		0.260
| Se	82		ug/L	483.350		0.690
| Kr	83		ug/L	197.782		11.472
| Sr	88		ug/L	581.133		15.353
| Zr	90		ug/L	2723.640		10.581
| Mo	95		ug/L	133.336		15.613
| Mo	98		ug/L	157.915		12.345
| Ru	99		ug/L	13.334		50.000
[Ru	101		ug/L	18.889		44.411
[Pd	106		mg/L	1666.792		1.312
| Pd	108		mg/L	48.890		45.398
| Ag	107		ug/L	1809.034		4.416
| Ag	109		ug/L	1857.930		3.310
Cd	111		ug/L	1362.044		1.885
Cd	114		ug/L	2092.416		3.073
> In-1	115		ug/L	1459681.343		0.537

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Data derived from 3 replicate readings.

Sample ID: Blank

	Sn	118	ug/L	3727.215	3.611
|	Sb	121	ug/L	332.232	8.172
|	Sb	123	ug/L	246.673	7.524
|	Te	125	ug/L	14.445	70.501
|	Ba	135	ug/L	88.891	31.893
[	Ba	137	ug/L	115.558	16.403
[	La	139	ug/L	166.670	19.079
|>	Tb-1	159	ug/L	1753439.399	0.492
|	Ho	165	ug/L	17.778	39.031
[	Au	197	ug/L	30.001	11.111
[	Hg	202	ug/L	14.445	58.076
|	Tl	203	ug/L	764.478	2.664
|	Tl	205	ug/L	1893.491	6.099
|	Pb	208	ug/L	955.584	14.719
|	Bi	209	ug/L	4518.568	1.443
|>	Th-1	232	ug/L	4472529.255	1.262
[	U-1	238	ug/L	1844.594	2.407
[	Na	23	ug/L	6776.164	2.032
|	Mg	24	ug/L	485.572	5.332
|	Mg	25	ug/L	68.890	18.319
|	Si	28	ug/L	45366.007	0.290
|	P	31	ug/L	6950.699	5.619
|	K	39	ug/L	1029947.368	0.458
|>	Sc-1	45	ug/L	1096474.822	1.164
[	Ca	43	ug/L	662.249	10.369
|	Ti	48	ug/L	-2966.946	2.718
|	Fe	54	ug/L	67204.662	1.672
|	Fe	56	ug/L	2658615.102	0.799
|	Fe	57	ug/L	13981.516	0.406
|>	Ge-1	74	ug/L	3347921.230	1.335
	Sc	45	ug/L	1096474.822	1.164
	Ge	74	ug/L	3347921.230	1.335
	In	115	ug/L	1459681.343	0.537
	Tb	159	ug/L	1753439.399	0.492
	Th	232	mg/L	4472529.255	1.262

QC Calculated Values

Analyte	Mass	QC % rec.	Spike % rec.	RPD %	I.S. % rec.
Li-1	7				
Be	9				
B	11				
Al	27				
Sc-2	45				
V	51				
Cr	52				
Cr	53				
Mn	55				
Co	59				
Ni	58				
Ni	60				
Cu	63				

Data derived from 3 replicate readings.

Sample ID: Blank

Cu	65
Zn	66
Zn	67
Zn	68
Ge-1	74
As	75
Se	77
Se	82
Kr	83
Sr	88
Zr	90
Mo	95
Mo	98
Ru	99
Ru	101
Pd	106
Pd	108
Ag	107
Ag	109
Cd	111
Cd	114
In-1	115
Sn	118
Sb	121
Sb	123
Te	125
Ba	135
Ba	137
La	139
Tb-1	159
Ho	165
Au	197
Hg	202
Tl	203
Tl	205
Pb	208
Bi	209
Th-1	232
U-1	238
Na	23
Mg	24
Mg	25
Si	28
P	31
K	39
Sc-1	45
Ca	43
Ti	48
Fe	54
Fe	56
Fe	57
Ge-1	74
Sc	45
Ge	74

Data derived from 3 replicate readings.

Sample ID: Blank

In 115
Tb 159
Th 232

QC Out Of Limits

MassAnalyte Out of Limits Message

Data derived from 3 replicate readings.

Sample ID: Blank

SGS ALASKA

ELAN 6100 ICP-MS P3

Sample ID: Standard 1

Sample Type:

Sample Description:

Sample Date/Time: Thursday, August 24, 2006 12:50:11

Dataset File: C:\elandata\Dataset\08.24.2006p3\Standard 1.002

Method File: c:\elandata\Method\SGS6020_4ALL.mth

Dual Detector Mode: Dual

Diluted To Volume (mL):

Autosampler Position: 12

Analyte	Mass	Conc. Mean	Report Unit	Meas. Intens. Mean	Blank Intensity	Meas. Intens. RSD
Li-1	7		ug/L	267.785	176.671	5.613
Be	9	0.200	ug/L	42.223	17.778	39.736
B	11		ug/L	5342.199	906.711	2.290
Al	27		ug/L	2869.225	2586.944	3.080
Sc-2	45		ug/L	1071645.995	1096474.822	1.568
V	51		ug/L	-40362.813	-4778.474	36.735
Cr	52		ug/L	46518.633	55325.672	2.037
Cr	53		ug/L	299729.975	376605.275	0.215
Mn	55	0.200	ug/L	5809.056	4985.399	2.532
Co	59	0.200	ug/L	1920.161	106.669	2.105
Ni	58	0.200	ug/L	-857.623	-2449.976	16.323
Ni	60	0.200	ug/L	601.134	52.223	3.895
Cu	63		ug/L	971.160	210.005	5.839
Cu	65		ug/L	515.573	115.558	0.988
Zn	66		ug/L	857.818	578.910	9.000
Zn	67		ug/L	24494.725	32168.940	1.223
Zn	68		ug/L	2712.525	3211.526	1.556
Ge-1	74		ug/L	3328552.601	3347921.230	0.718
As	75		ug/L	-507.443	-1364.861	86.921
Se	77		ug/L	18041.692	22582.656	2.863
Se	82		ug/L	406.679	483.350	2.839
Kr	83		ug/L	200.005	197.782	9.280
Sr	88		ug/L	522.241	581.133	7.371
Zr	90		ug/L	1880.156	2723.640	8.710
Mo	95	0.200	ug/L	732.253	133.336	1.146
Mo	98	0.200	ug/L	1178.963	157.915	4.237
Ru	99		ug/L	13.334	13.334	43.301
Ru	101		ug/L	10.000	18.889	88.192
Pd	106		mg/L	1495.659	1666.792	3.123
Pd	108		mg/L	63.335	48.890	27.348
Ag	107	0.200	ug/L	3072.604	1809.034	3.070
Ag	109	0.200	ug/L	2971.470	1857.930	4.030
Cd	111	0.200	ug/L	1590.263	1362.044	0.907
Cd	114	0.200	ug/L	2828.755	2092.416	1.988
In-1	115		ug/L	1462059.892	1459681.343	0.977

Data derived from 3 replicate readings.

Sample ID: Standard 1

|	Sn	118	0.200	ug/L	3474.925	3727.215	1.655
|	Sb	121	0.200	ug/L	1645.678	332.232	5.045
|	Sb	123	0.200	ug/L	1208.960	246.673	5.720
|	Te	125		ug/L	27.778	14.445	36.661
|	Ba	135	0.200	ug/L	545.575	88.891	5.510
|	Ba	137	0.200	ug/L	824.482	115.558	5.737
|	La	139		ug/L	171.115	166.670	20.647
>	Tb-1	159		ug/L	1740388.968	1753439.399	0.701
|	Ho	165		ug/L	8.889	17.778	43.301
|	Au	197		ug/L	26.667	30.001	12.500
|	Hg	202		ug/L	24.445	14.445	28.386
|	Tl	203	0.200	ug/L	2319.116	764.478	2.284
|	Tl	205	0.200	ug/L	5723.465	1893.491	3.513
|	Pb	208	0.200	ug/L	6852.998	955.584	3.068
|	Bi	209	0.200	ug/L	8948.507	4518.568	2.023
>	Th-1	232		ug/L	4398152.325	4472529.255	1.029
|	U-1	238		ug/L	7239.734	1844.594	3.059
|	Na	23		ug/L	72817.442	6776.164	0.847
|	Mg	24		ug/L	45092.944	485.572	2.390
|	Mg	25		ug/L	6334.843	68.890	1.582
|	Si	28		ug/L	85162.381	45366.007	2.441
|	P	31		ug/L	10579.681	6950.699	11.290
|	K	39		ug/L	1144073.877	1029947.368	1.415
>	Sc-1	45		ug/L	1071645.995	1096474.822	1.568
|	Ca	43		ug/L	853.373	662.249	5.427
|	Ti	48	10.000	ug/L	119911.728	-2966.946	1.019
|	Fe	54		ug/L	66110.169	67204.662	1.288
|	Fe	56		ug/L	2782258.745	2658615.102	0.622
|	Fe	57		ug/L	18020.549	13981.516	1.278
>	Ge-1	74		ug/L	3328552.601	3347921.230	0.718
|	Sc	45		ug/L	1071645.995	1096474.822	1.568
|	Ge	74		ug/L	3328552.601	3347921.230	0.718
|	In	115		ug/L	1462059.892	1459681.343	0.977
|	Tb	159		ug/L	1740388.968	1753439.399	0.701
|	Th	232		mg/L	4398152.325	4472529.255	1.029

QC Calculated Values

Analyte	Mass	QC % rec.	Spike % rec.	RPD %	I.S. % rec.
Li-1	7				
Be	9				
B	11				
Al	27				
Sc-2	45				
V	51				
Cr	52				
Cr	53				
Mn	55				
Co	59				
Ni	58				
Ni	60				
Cu	63				

Data derived from 3 replicate readings.

Sample ID: Standard 1

Cu	65
Zn	66
Zn	67
Zn	68
Ge-1	74
As	75
Se	77
Se	82
Kr	83
Sr	88
Zr	90
Mo	95
Mo	98
Ru	99
Ru	101
Pd	106
Pd	108
Ag	107
Ag	109
Cd	111
Cd	114
In-1	115
Sn	118
Sb	121
Sb	123
Te	125
Ba	135
Ba	137
La	139
Tb-1	159
Ho	165
Au	197
Hg	202
Tl	203
Tl	205
Pb	208
Bi	209
Th-1	232
U-1	238
Na	23
Mg	24
Mg	25
Si	28
P	31
K	39
Sc-1	45
Ca	43
Ti	48
Fe	54
Fe	56
Fe	57
Ge-1	74
Sc	45
Ge	74

Data derived from 3 replicate readings.

Sample ID: Standard 1

In 115
Tb 159
Th 232

QC Out Of Limits

MassAnalyte Out of Limits Message

Data derived from 3 replicate readings.

Sample ID: Standard 1

SGS ALASKA

ELAN 6100 ICP-MS P3

Sample ID: Standard 2

Sample Type:

Sample Description:

Sample Date/Time: Thursday, August 24, 2006 12:54:31

Dataset File: C:\elandata\Dataset\08.24.2006p3\Standard 2.003

Method File: c:\elandata\Method\SGS6020_4ALL.mth

Dual Detector Mode: Dual

Diluted To Volume (mL):

Autosampler Position: 2

Analyte	Mass	Conc. Mean	Report Unit	Meas. Intens. Mean	Blank Intensity	Meas. Intens. RSD
Li-1	7	1.000	ug/L	920.045	176.671	4.526
Be	9	1.017	ug/L	238.895	17.778	17.447
B	11	100.000	ug/L	24447.989	906.711	3.074
Al	27	1.000	ug/L	8817.313	2586.944	2.524
Sc-2	45		ug/L	1085686.904	1096474.822	1.534
V	51	1.000	ug/L	-233.741	-4778.474	54953.769
Cr	52	1.000	ug/L	76048.723	55325.672	1.269
Cr	53	1.000	ug/L	436405.242	376605.275	0.976
Mn	55	1.027	ug/L	18185.206	4985.399	1.725
Co	59	1.002	ug/L	9720.138	106.669	3.898
Ni	58	0.984	ug/L	3160.674	-2449.976	10.540
Ni	60	0.987	ug/L	2082.409	52.223	2.905
Cu	63	1.000	ug/L	4659.727	210.005	2.963
Cu	65	1.000	ug/L	2423.579	115.558	0.902
Zn	66	1.000	ug/L	1956.833	578.910	3.014
Zn	67	1.000	ug/L	37122.132	32168.940	1.922
Zn	68	1.000	ug/L	4387.414	3211.526	2.172
Ge-1	74		ug/L	3334218.972	3347921.230	1.809
As	75	1.000	ug/L	2049.218	-1364.861	175.700
Se	77	1.000	ug/L	30128.906	22582.656	0.425
Se	82	1.000	ug/L	817.815	483.350	6.640
Kr	83		ug/L	187.782	197.782	19.473
Sr	88		ug/L	891.154	581.133	7.295
Zr	90		ug/L	3035.929	2723.640	4.045
Mo	95	1.000	ug/L	3169.293	133.336	3.044
Mo	98	0.999	ug/L	5143.983	157.915	4.123
Ru	99		ug/L	13.334	13.334	66.144
Ru	101		ug/L	13.334	18.889	43.301
Pd	106		mg/L	1795.699	1666.792	10.667
Pd	108		mg/L	167.782	48.890	18.460
Ag	107	1.016	ug/L	12076.416	1809.034	1.989
Ag	109	1.017	ug/L	11436.990	1857.930	1.488
Cd	111	1.017	ug/L	3265.360	1362.044	5.083
Cd	114	1.008	ug/L	6505.071	2092.416	2.296
In-1	115		ug/L	1404647.346	1459681.343	0.803

Data derived from 3 replicate readings.

Sample ID: Standard 2

|	Sn	118	1.050	ug/L	8895.139	3727.215	1.476
|	Sb	121	1.004	ug/L	7298.653	332.232	1.436
|	Sb	123	1.006	ug/L	5747.920	246.673	4.981
|	Te	125		ug/L	28.889	14.445	29.038
|	Ba	135	0.996	ug/L	2091.299	88.891	2.211
|	Ba	137	1.002	ug/L	3663.864	115.558	0.656
|	La	139		ug/L	201.116	166.670	6.901
>	Tb-1	159		ug/L	1710638.053	1753439.399	0.665
|	Ho	165		ug/L	13.334	17.778	43.301
|	Au	197		ug/L	30.001	30.001	38.490
|	Hg	202		ug/L	24.445	14.445	34.317
|	Tl	203	1.002	ug/L	9015.217	764.478	2.496
|	Tl	205	1.001	ug/L	21959.457	1893.491	2.063
|	Pb	208	1.001	ug/L	31306.269	955.584	0.988
|	Bi	209	1.004	ug/L	30189.042	4518.568	1.985
>	Th-1	232		ug/L	4442598.343	4472529.255	0.871
|	U-1	238	1.000	ug/L	31869.376	1844.594	1.240
|	Na	23		ug/L	338298.788	6776.164	2.106
|	Mg	24		ug/L	224826.080	485.572	1.794
|	Mg	25		ug/L	31073.171	68.890	1.806
|	Si	28		ug/L	241585.268	45366.007	0.976
|	P	31		ug/L	32442.912	6950.699	2.782
|	K	39		ug/L	1715905.146	1029947.368	0.714
>	Sc-1	45		ug/L	1085686.904	1096474.822	1.534
|	Ca	43		ug/L	2242.436	662.249	4.588
|	Ti	48	99.067	ug/L	627530.572	-2966.946	1.064
|	Fe	54	100.000	ug/L	150406.336	67204.662	1.712
|	Fe	56	100.000	ug/L	3629943.287	2658615.102	1.019
|	Fe	57	100.000	ug/L	39814.959	13981.516	0.552
>	Ge-1	74		ug/L	3334218.972	3347921.230	1.809
|	Sc	45		ug/L	1085686.904	1096474.822	1.534
|	Ge	74		ug/L	3334218.972	3347921.230	1.809
|	In	115		ug/L	1404647.346	1459681.343	0.803
|	Tb	159		ug/L	1710638.053	1753439.399	0.665
|	Th	232		mg/L	4442598.343	4472529.255	0.871

QC Calculated Values

Analyte	Mass	QC % rec.	Spike % rec.	RPD %	I.S. % rec.
Li-1	7				
Be	9				
B	11				
Al	27				
Sc-2	45				
V	51				
Cr	52				
Cr	53				
Mn	55				
Co	59				
Ni	58				
Ni	60				
Cu	63				

Data derived from 3 replicate readings.

Sample ID: Standard 2

Cu	65
Zn	66
Zn	67
Zn	68
Ge-1	74
As	75
Se	77
Se	82
Kr	83
Sr	88
Zr	90
Mo	95
Mo	98
Ru	99
Ru	101
Pd	106
Pd	108
Ag	107
Ag	109
Cd	111
Cd	114
In-1	115
Sn	118
Sb	121
Sb	123
Te	125
Ba	135
Ba	137
La	139
Tb-1	159
Ho	165
Au	197
Hg	202
Tl	203
Tl	205
Pb	208
Bi	209
Th-1	232
U-1	238
Na	23
Mg	24
Mg	25
Si	28
P	31
K	39
Sc-1	45
Ca	43
Ti	48
Fe	54
Fe	56
Fe	57
Ge-1	74
Sc	45
Ge	74

Data derived from 3 replicate readings.

Sample ID: Standard 2

In 115
Tb 159
Th 232

QC Out Of Limits

MassAnalyte Out of Limits Message

Data derived from 3 replicate readings.

Sample ID: Standard 2

SGS ALASKA

ELAN 6100 ICP-MS P3

Sample ID: Standard 3

Sample Type:

Sample Description:

Sample Date/Time: Thursday, August 24, 2006 12:58:51

Dataset File: C:\elandata\Dataset\08.24.2006p3\Standard 3.004

Method File: c:\elandata\Method\SGS6020_4ALL.mth

Dual Detector Mode: Dual

Diluted To Volume (mL):

Autosampler Position: 3

Analyte	Mass	Conc. Mean	Report Unit	Meas. Intens. Mean	Blank Intensity	Meas. Intens. RSD
Li-1	7	9.995	ug/L	7453.180	176.671	3.346
Be	9	9.999	ug/L	2232.435	17.778	7.746
B	11	999.851	ug/L	238329.737	906.711	2.600
Al	27	9.956	ug/L	47029.254	2586.944	3.845
Sc-2	45		ug/L	1111738.182	1096474.822	2.247
V	51	10.087	ug/L	232752.531	-4778.474	7.363
Cr	52	9.875	ug/L	146338.208	55325.672	1.276
Cr	53	9.423	ug/L	458457.832	376605.275	0.368
Mn	55	9.997	ug/L	129201.638	4985.399	1.530
Co	59	9.998	ug/L	93905.867	106.669	0.725
Ni	58	9.998	ug/L	52976.412	-2449.976	3.208
Ni	60	9.997	ug/L	20028.809	52.223	0.463
Cu	63	9.995	ug/L	42540.631	210.005	1.640
Cu	65	9.995	ug/L	21979.487	115.558	1.783
Zn	66	9.996	ug/L	13760.188	578.910	1.686
Zn	67	9.543	ug/L	40579.348	32168.940	1.541
Zn	68	9.967	ug/L	12094.208	3211.526	1.511
Ge-1	74		ug/L	3319470.652	3347921.230	1.547
As	75	9.875	ug/L	13365.607	-1364.861	8.211
Se	77	9.343	ug/L	31775.832	22582.656	0.971
Se	82	9.878	ug/L	1965.724	483.350	5.409
Kr	83		ug/L	283.341	197.782	11.223
Sr	88		ug/L	1127.841	581.133	7.653
Zr	90		ug/L	16597.732	2723.640	8.000
Mo	95	10.002	ug/L	30799.234	133.336	0.672
Mo	98	9.999	ug/L	49458.775	157.915	1.161
Ru	99		ug/L	5.556	13.334	69.282
Ru	101		ug/L	7.778	18.889	24.744
Pd	106		mg/L	3563.838	1666.792	5.117
Pd	108		mg/L	1348.975	48.890	10.088
Ag	107	9.984	ug/L	90575.636	1809.034	2.540
Ag	109	9.986	ug/L	85623.926	1857.930	0.371
Cd	111	9.999	ug/L	20542.987	1362.044	1.781
Cd	114	9.999	ug/L	46321.037	2092.416	2.025
In-1	115		ug/L	1416445.519	1459681.343	1.159

Data derived from 3 replicate readings.

Sample ID: Standard 3

|	Sn	118	10.010	ug/L	60370.523	3727.215	0.709
|	Sb	121	10.002	ug/L	71675.028	332.232	1.749
|	Sb	123	9.998	ug/L	54416.587	246.673	1.516
|	Te	125		ug/L	20.000	14.445	57.735
|	Ba	135	9.999	ug/L	20110.040	88.891	2.248
|	Ba	137	9.998	ug/L	35072.485	115.558	2.051
|	La	139		ug/L	287.785	166.670	11.717
>	Tb-1	159		ug/L	1725047.503	1753439.399	0.239
|	Ho	165		ug/L	7.778	17.778	49.487
|	Au	197		ug/L	24.445	30.001	64.443
|	Hg	202		ug/L	23.334	14.445	14.286
|	Tl	203	9.997	ug/L	82831.982	764.478	1.745
|	Tl	205	10.000	ug/L	207138.960	1893.491	1.311
|	Pb	208	9.994	ug/L	295906.600	955.584	1.097
|	Bi	209	9.995	ug/L	254290.392	4518.568	2.195
>	Th-1	232		ug/L	4555133.721	4472529.255	1.917
|	U-1	238	9.998	ug/L	302865.580	1844.594	1.493
|	Na	23	1000.000	ug/L	3136491.339	6776.164	1.411
|	Mg	24	1000.000	ug/L	2164967.991	485.572	0.398
|	Mg	25	1000.000	ug/L	308773.669	68.890	1.732
|	Si	28	1000.000	ug/L	1898741.521	45366.007	2.300
|	P	31	1000.000	ug/L	237608.248	6950.699	1.099
|	K	39	1000.000	ug/L	7812622.156	1029947.368	0.731
>	Sc-1	45		ug/L	1111738.182	1096474.822	2.247
|	Ca	43	1000.000	ug/L	15445.270	662.249	1.179
|	Ti	48	999.741	ug/L	6175011.071	-2966.946	1.685
|	Fe	54	996.812	ug/L	694855.026	67204.662	0.072
|	Fe	56	999.166	ug/L	11659185.851	2658615.102	1.178
|	Fe	57	999.774	ug/L	265907.911	13981.516	1.734
>	Ge-1	74		ug/L	3319470.652	3347921.230	1.547
|	Sc	45		ug/L	1111738.182	1096474.822	2.247
|	Ge	74		ug/L	3319470.652	3347921.230	1.547
|	In	115		ug/L	1416445.519	1459681.343	1.159
|	Tb	159		ug/L	1725047.503	1753439.399	0.239
|	Th	232		mg/L	4555133.721	4472529.255	1.917

QC Calculated Values

Analyte	Mass	QC % rec.	Spike % rec.	RPD %	I.S. % rec.
Li-1	7				
Be	9				
B	11				
Al	27				
Sc-2	45				
V	51				
Cr	52				
Cr	53				
Mn	55				
Co	59				
Ni	58				
Ni	60				
Cu	63				

Data derived from 3 replicate readings.

Sample ID: Standard 3

Cu	65
Zn	66
Zn	67
Zn	68
Ge-1	74
As	75
Se	77
Se	82
Kr	83
Sr	88
Zr	90
Mo	95
Mo	98
Ru	99
Ru	101
Pd	106
Pd	108
Ag	107
Ag	109
Cd	111
Cd	114
In-1	115
Sn	118
Sb	121
Sb	123
Te	125
Ba	135
Ba	137
La	139
Tb-1	159
Ho	165
Au	197
Hg	202
Tl	203
Tl	205
Pb	208
Bi	209
Th-1	232
U-1	238
Na	23
Mg	24
Mg	25
Si	28
P	31
K	39
Sc-1	45
Ca	43
Ti	48
Fe	54
Fe	56
Fe	57
Ge-1	74
Sc	45
Ge	74

Data derived from 3 replicate readings.

Sample ID: Standard 3

In 115
Tb 159
Th 232

QC Out Of Limits

MassAnalyte Out of Limits Message

Data derived from 3 replicate readings.

Sample ID: Standard 3

SGS ALASKA

ELAN 6100 ICP-MS P3

Sample ID: Standard 4

Sample Type:

Sample Description:

Sample Date/Time: Thursday, August 24, 2006 13:03:12

Dataset File: C:\elandata\Dataset\08.24.2006p3\Standard 4.005

Method File: c:\elandata\Method\SGS6020_4ALL.mth

Dual Detector Mode: Dual

Diluted To Volume (mL):

Autosampler Position: 4

Analyte	Mass	Conc. Mean	Report Unit	Meas. Intens. Mean	Blank Intensity	Meas. Intens. RSD
Li-1	7	99.952	ug/L	68668.073	176.671	2.519
Be	9	99.955	ug/L	20898.957	17.778	0.477
B	11	9998.739	ug/L	2314025.946	906.711	6.397
Al	27	99.912	ug/L	407050.110	2586.944	6.039
Sc-2	45		ug/L	1095657.361	1096474.822	1.446
V	51	98.561	ug/L	918835.575	-4778.474	2.273
Cr	52	99.700	ug/L	740377.100	55325.672	1.271
Cr	53	94.069	ug/L	479715.861	376605.275	1.391
Mn	55	99.942	ug/L	1138988.473	4985.399	1.576
Co	59	99.947	ug/L	859901.536	106.669	1.279
Ni	58	99.965	ug/L	514454.375	-2449.976	3.161
Ni	60	99.979	ug/L	188808.769	52.223	2.648
Cu	63	99.952	ug/L	390135.138	210.005	2.531
Cu	65	99.933	ug/L	197913.310	115.558	2.893
Zn	66	99.942	ug/L	120889.161	578.910	1.030
Zn	67	97.182	ug/L	53317.995	32168.940	1.604
Zn	68	99.935	ug/L	84123.943	3211.526	1.295
Ge-1	74		ug/L	3204237.970	3347921.230	2.280
As	75	100.031	ug/L	147097.142	-1364.861	1.570
Se	77	94.625	ug/L	36124.000	22582.656	1.361
Se	82	99.936	ug/L	14099.412	483.350	0.654
Kr	83		ug/L	921.156	197.782	6.081
Sr	88		ug/L	4575.254	581.133	3.145
Zr	90		ug/L	78529.936	2723.640	9.005
Mo	95	99.997	ug/L	295208.073	133.336	2.124
Mo	98	99.995	ug/L	473913.000	157.915	2.399
Ru	99		ug/L	52.223	13.334	26.575
Ru	101		ug/L	22.223	18.889	48.218
Pd	106		mg/L	19975.401	1666.792	1.415
Pd	108		mg/L	13205.213	48.890	3.198
Ag	107	99.891	ug/L	776277.483	1809.034	1.702
Ag	109	99.912	ug/L	746964.748	1857.930	1.182
Cd	111	99.998	ug/L	186517.381	1362.044	2.360
Cd	114	99.981	ug/L	421747.021	2092.416	2.022
In-1	115		ug/L	1368400.496	1459681.343	1.937

Data derived from 3 replicate readings.

Sample ID: Standard 4

|	Sn	118	100.006	ug/L	554590.991	3727.215	1.086
|	Sb	121	99.982	ug/L	677207.231	332.232	0.979
|	Sb	123	99.994	ug/L	520432.470	246.673	0.872
|	Te	125		ug/L	23.334	14.445	14.286
|	Ba	135	100.001	ug/L	193750.539	88.891	0.995
|	Ba	137	99.988	ug/L	333969.282	115.558	2.682
|	La	139		ug/L	1454.543	166.670	10.628
>	Tb-1	159		ug/L	1674009.521	1753439.399	2.236
|	Ho	165		ug/L	20.000	17.778	16.667
|	Au	197		ug/L	51.112	30.001	7.531
|	Hg	202		ug/L	31.112	14.445	16.366
|	Tl	203	99.930	ug/L	778174.608	764.478	1.143
|	Tl	205	99.914	ug/L	1916575.397	1893.491	1.982
|	Pb	208	99.912	ug/L	2750375.108	955.584	1.250
|	Bi	209	99.885	ug/L	2275921.235	4518.568	2.611
>	Th-1	232		ug/L	4615878.922	4472529.255	1.155
|	U-1	238	99.737	ug/L	2415983.291	1844.594	3.140
|	Na	23	9866.664	ug/L	29715164.647	6776.164	4.381
|	Mg	24	9865.336	ug/L	20587164.740	485.572	2.939
|	Mg	25	9752.375	ug/L	2873650.194	68.890	3.013
|	Si	28	9763.018	ug/L	17234907.966	45366.007	2.879
|	P	31	9769.039	ug/L	2137394.832	6950.699	1.780
|	K	39	9984.538	ug/L	67185254.080	1029947.368	2.179
>	Sc-1	45		ug/L	1095657.361	1096474.822	1.446
|	Ca	43	9874.182	ug/L	138572.538	662.249	2.563
|	Ti	48	10001.115	ug/L	60319621.559	-2966.946	2.050
|	Fe	54	9990.465	ug/L	5618090.119	67204.662	2.135
|	Fe	56	9997.175	ug/L	87307034.193	2658615.102	1.381
|	Fe	57	9988.141	ug/L	2188138.245	13981.516	0.281
>	Ge-1	74		ug/L	3204237.970	3347921.230	2.280
|	Sc	45		ug/L	1095657.361	1096474.822	1.446
|	Ge	74		ug/L	3204237.970	3347921.230	2.280
|	In	115		ug/L	1368400.496	1459681.343	1.937
|	Tb	159		ug/L	1674009.521	1753439.399	2.236
|	Th	232		mg/L	4615878.922	4472529.255	1.155

QC Calculated Values

Analyte	Mass	QC % rec.	Spike % rec.	RPD %	I.S. % rec.
Li-1	7				
Be	9				
B	11				
Al	27				
Sc-2	45				
V	51				
Cr	52				
Cr	53				
Mn	55				
Co	59				
Ni	58				
Ni	60				
Cu	63				

Data derived from 3 replicate readings.

Sample ID: Standard 4

Cu	65
Zn	66
Zn	67
Zn	68
Ge-1	74
As	75
Se	77
Se	82
Kr	83
Sr	88
Zr	90
Mo	95
Mo	98
Ru	99
Ru	101
Pd	106
Pd	108
Ag	107
Ag	109
Cd	111
Cd	114
In-1	115
Sn	118
Sb	121
Sb	123
Te	125
Ba	135
Ba	137
La	139
Tb-1	159
Ho	165
Au	197
Hg	202
Tl	203
Tl	205
Pb	208
Bi	209
Th-1	232
U-1	238
Na	23
Mg	24
Mg	25
Si	28
P	31
K	39
Sc-1	45
Ca	43
Ti	48
Fe	54
Fe	56
Fe	57
Ge-1	74
Sc	45
Ge	74

Data derived from 3 replicate readings.

Sample ID: Standard 4

In 115
Tb 159
Th 232

QC Out Of Limits

MassAnalyte Out of Limits Message

Data derived from 3 replicate readings.

Sample ID: Standard 4

SGS ALASKA

ELAN 6100 ICP-MS P3

Sample ID: Standard 5

Sample Type:

Sample Description:

Sample Date/Time: Thursday, August 24, 2006 13:08:56

Dataset File: C:\elandata\Dataset\08.24.2006p3\Standard 5.006

Method File: c:\elandata\Method\SGS6020_4ALL.mth

Dual Detector Mode: Dual

Diluted To Volume (mL):

Autosampler Position: 8

Analyte	Mass	Conc. Mean	Report Unit	Meas. Intens. Mean	Blank Intensity	Meas. Intens. RSD
Li-1	7	1000.588	ug/L	700617.906	176.671	2.209
Be	9	1000.778	ug/L	217993.323	17.778	1.306
B	11	48.986	ug/L	11773.951	906.711	6.954
Al	27	998.492	ug/L	3385135.128	2586.944	0.123
Sc-2	45		ug/L	1054242.101	1096474.822	0.513
V	51	998.310	ug/L	8106232.505	-4778.474	0.396
Cr	52	999.990	ug/L	7027463.909	55325.672	1.885
Cr	53	995.802	ug/L	1268564.817	376605.275	1.595
Mn	55	999.762	ug/L	11229383.651	4985.399	1.009
Co	59	999.936	ug/L	8659112.205	106.669	1.677
Ni	58	997.285	ug/L	4110850.142	-2449.976	1.223
Ni	60	999.665	ug/L	1850555.434	52.223	1.175
Cu	63	999.579	ug/L	3791488.354	210.005	1.213
Cu	65	999.080	ug/L	1835351.978	115.558	0.234
Zn	66	998.686	ug/L	1078016.858	578.910	1.627
Zn	67	998.230	ug/L	230698.418	32168.940	0.887
Zn	68	999.802	ug/L	808460.803	3211.526	1.194
Ge-1	74		ug/L	3244019.656	3347921.230	1.336
As	75	999.756	ug/L	1464836.708	-1364.861	1.297
Se	77	996.177	ug/L	134127.936	22582.656	1.580
Se	82	1000.074	ug/L	139703.396	483.350	2.086
Kr	83		ug/L	270.007	197.782	10.763
Sr	88		ug/L	966.716	581.133	8.580
Zr	90		ug/L	3689.429	2723.640	9.243
Mo	95	1000.031	ug/L	2987986.551	133.336	1.908
Mo	98	987.921	ug/L	4739093.331	157.915	1.498
Ru	99		ug/L	384.456	13.334	3.910
Ru	101		ug/L	77.779	18.889	25.833
Pd	106		mg/L	175999.335	1666.792	0.480
Pd	108		mg/L	129415.788	48.890	1.515
Ag	107	0.353	ug/L	4497.450	1809.034	3.157
Ag	109	0.309	ug/L	4105.104	1857.930	4.992
Cd	111	999.594	ug/L	1807645.668	1362.044	0.395
Cd	114	999.887	ug/L	4214711.323	2092.416	0.382
In-1	115		ug/L	1388511.802	1459681.343	0.502

Data derived from 3 replicate readings.

Sample ID: Standard 5

|	Sn	118	976.757	ug/L	5466620.011	3727.215	1.162
|	Sb	121	999.620	ug/L	6619283.231	332.232	0.784
|	Sb	123	999.598	ug/L	5076192.679	246.673	0.486
|	Te	125		ug/L	34.445	14.445	47.738
|	Ba	135	999.537	ug/L	1878351.749	88.891	3.322
|	Ba	137	999.896	ug/L	3353644.247	115.558	1.618
|	La	139		ug/L	2686.964	166.670	4.788
>	Tb-1	159		ug/L	1694709.655	1753439.399	1.411
|	Ho	165		ug/L	24.445	17.778	31.492
|	Au	197		ug/L	43.334	30.001	20.352
|	Hg	202		ug/L	46.668	14.445	24.744
|	Tl	203	1000.593	ug/L	8010149.212	764.478	0.981
|	Tl	205	1000.446	ug/L	19431352.475	1893.491	1.118
|	Pb	208	1000.506	ug/L	28076176.764	955.584	0.921
|	Bi	209	1000.634	ug/L	23522908.767	4518.568	2.162
>	Th-1	232		ug/L	4473216.326	4472529.255	2.436
|	U-1	238	1000.443	ug/L	24539693.016	1844.594	2.186
|	Na	23	-5.440	ug/L	23841.402	6776.164	3.494
|	Mg	24	-8.083	ug/L	1753.470	485.572	5.991
|	Mg	25	-5.362	ug/L	394.457	68.890	17.571
|	Si	28	51.580	ug/L	153098.569	45366.007	0.772
|	P	31	1.668	ug/L	10951.073	6950.699	9.981
|	K	39	-2.386	ug/L	1014136.805	1029947.368	0.111
>	Sc-1	45		ug/L	1054242.101	1096474.822	0.513
|	Ca	43	14.160	ug/L	971.160	662.249	2.622
|	Ti	48	5.623	ug/L	31460.333	-2966.946	19.955
|	Fe	54	83.384	ug/L	112038.627	67204.662	9.569
|	Fe	56	5.026	ug/L	2618831.644	2658615.102	2.005
|	Fe	57	14.061	ug/L	16645.547	13981.516	5.817
>	Ge-1	74		ug/L	3244019.656	3347921.230	1.336
	Sc	45		ug/L	1054242.101	1096474.822	0.513
	Ge	74		ug/L	3244019.656	3347921.230	1.336
	In	115		ug/L	1388511.802	1459681.343	0.502
	Tb	159		ug/L	1694709.655	1753439.399	1.411
	Th	232		mg/L	4473216.326	4472529.255	2.436

QC Calculated Values

Analyte	Mass	QC % rec.	Spike % rec.	RPD %	I.S. % rec.
Li-1	7				
Be	9				
B	11				
Al	27				
Sc-2	45				
V	51				
Cr	52				
Cr	53				
Mn	55				
Co	59				
Ni	58				
Ni	60				
Cu	63				

Data derived from 3 replicate readings.

Sample ID: Standard 5

Cu	65
Zn	66
Zn	67
Zn	68
Ge-1	74
As	75
Se	77
Se	82
Kr	83
Sr	88
Zr	90
Mo	95
Mo	98
Ru	99
Ru	101
Pd	106
Pd	108
Ag	107
Ag	109
Cd	111
Cd	114
In-1	115
Sn	118
Sb	121
Sb	123
Te	125
Ba	135
Ba	137
La	139
Tb-1	159
Ho	165
Au	197
Hg	202
Tl	203
Tl	205
Pb	208
Bi	209
Th-1	232
U-1	238
Na	23
Mg	24
Mg	25
Si	28
P	31
K	39
Sc-1	45
Ca	43
Ti	48
Fe	54
Fe	56
Fe	57
Ge-1	74
Sc	45
Ge	74

Data derived from 3 replicate readings.

Sample ID: Standard 5

In 115
Tb 159
Th 232

QC Out Of Limits

MassAnalyte Out of Limits Message

Data derived from 3 replicate readings.

Sample ID: Standard 5

SGS ALASKA

Calibration Type: External Calibration
 File Name 08.30.2006p3.cal

P-E ELAN 6100 ICP-MS P3 CALIBRATION SUMMARY

Analyte	Mass	Std 1	Std 2	Std 3	Std 4	Std 5
Li-1	7.016		1.000	10.000	100.000	1000.000
Be	9.012	0.200	1.000	10.000	100.000	1000.000
B	11.009		100.000	1000.000	10000.000	
Al	26.982		1.000	10.000	100.000	1000.000
Sc-2	44.956					
V	50.944		1.000	10.000	100.000	1000.000
Cr	51.941		1.000	10.000	100.000	1000.000
Cr	52.941		1.000	10.000	100.000	1000.000
Mn	54.938	0.200	1.000	10.000	100.000	1000.000
Co	58.933	0.200	1.000	10.000	100.000	1000.000
Ni	57.935	0.200	1.000	10.000	100.000	1000.000
Ni	59.933	0.200	1.000	10.000	100.000	1000.000
Cu	62.930		1.000	10.000	100.000	1000.000
Cu	64.928		1.000	10.000	100.000	1000.000
Zn	65.926		1.000	10.000	100.000	1000.000
Zn	66.927		1.000	10.000	100.000	1000.000
Zn	67.925		1.000	10.000	100.000	1000.000
Ge-1	73.922					
As	74.922		1.000	10.000	100.000	1000.000
Se	76.920		1.000	10.000	100.000	1000.000
Se	81.917		1.000	10.000	100.000	1000.000
Kr	82.914					
Sr	87.906					
Zr	89.904					
Mo	94.906	0.200	1.000	10.000	100.000	
Mo	97.906	0.200	1.000	10.000	100.000	
Ru	98.906					
Ru	100.906					
Pd	105.903					
Pd	107.904					
Ag	106.905	0.200	1.000	10.000	100.000	
Ag	108.905	0.200	1.000	10.000	100.000	
Cd	110.904	0.200	1.000	10.000	100.000	1000.000
Cd	113.904	0.200	1.000	10.000	100.000	1000.000
In-1	114.904					
Sn	117.902	0.200	1.000	10.000	100.000	
Sb	120.904	0.200	1.000	10.000	100.000	1000.000
Sb	122.904	0.200	1.000	10.000	100.000	1000.000
Te	124.904					
Ba	134.906	0.200	1.000	10.000	100.000	1000.000
Ba	136.905	0.200	1.000	10.000	100.000	1000.000
La	138.906					
Tb-1	158.925					
Ho	164.930					
Au	196.967					
Hg	201.971					
Tl	202.972	0.200	1.000	10.000	100.000	1000.000

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Tl	204.975	0.200	1.000	10.000	100.000	1000.000
Pb	207.977	0.200	1.000	10.000	100.000	1000.000
Bi	208.980	0.200	1.000	10.000	100.000	1000.000
Th-1	232.038					1000.000
U-1	238.050		1.000	10.000	100.000	1000.000
Na	22.990		100.000	1000.000	10000.000	
Mg	23.985		100.000	1000.000	10000.000	
Mg	24.986		100.000	1000.000	10000.000	
Si	27.977		100.000	1000.000	10000.000	
P	30.994		100.000	1000.000	10000.000	
K	38.964		100.000	1000.000	10000.000	
Sc-1	44.956					
Ca	42.959		100.000	1000.000	10000.000	
Ti	47.948	10.000	100.000	1000.000	10000.000	
Fe	53.940		100.000	1000.000	10000.000	
Fe	55.935		100.000	1000.000	10000.000	
Fe	56.935		100.000	1000.000	10000.000	
Ge-1	73.922					
Sc	44.956					
Ge	73.922					
In	114.904					
Tb	158.925					
Th	232.038					

Analyte	Mass	Curve T	Slope	Corr. Coeff.	Intercept
Li-1	7.016	Linear Thru Zero	0.0009324	0.9998394	0.000000
Be	9.012	Linear Thru Zero	0.0002828	0.9998157	0.000000
B	11.009	Linear Thru Zero	0.0002916	0.9999918	0.000000
Al	26.982	Linear Thru Zero	0.0048832	0.9999925	0.000000
Sc-2	44.956	Linear Thru Zero	0.0000000	0.0000000	0.000000
V	50.944	Linear Thru Zero	0.0037185	0.9998631	0.000000
Cr	51.941	Linear Thru Zero	0.0031335	0.9999879	0.000000
Cr	52.941	Linear Thru Zero	0.0003555	0.9927513	0.000000
Mn	54.938	Linear Thru Zero	0.0051104	0.9999984	0.000000
Co	58.933	Linear Thru Zero	0.0039491	0.9999951	0.000000
Ni	57.935	Linear Thru Zero	0.0018700	0.9997120	0.000000
Ni	59.933	Linear Thru Zero	0.0008324	0.9999998	0.000000
Cu	62.930	Linear Thru Zero	0.0016976	0.9999981	0.000000
Cu	64.928	Linear Thru Zero	0.0008317	0.9999925	0.000000
Zn	65.926	Linear Thru Zero	0.0004681	0.9999330	0.000000
Zn	66.927	Linear Thru Zero	0.0000819	0.9989595	0.000000
Zn	67.925	Linear Thru Zero	0.0003482	0.9999879	0.000000
Ge-1	73.922	Linear Thru Zero	0.0000000	0.0000000	0.000000
As	74.922	Linear Thru Zero	0.0006154	0.9999944	0.000000
Se	76.920	Linear Thru Zero	0.0000447	0.9977306	0.000000
Se	81.917	Linear Thru Zero	0.0000608	0.9999846	0.000000
Kr	82.914	Linear Thru Zero	0.0000000	0.0000000	0.000000
Sr	87.906	Linear Thru Zero	0.0000000	0.0000000	0.000000
Zr	89.904	Linear Thru Zero	0.0000000	0.0000000	0.000000
Mo	94.906	Linear Thru Zero	0.0012198	0.9999998	0.000000
Mo	97.906	Linear Thru Zero	0.0019509	0.9999992	0.000000
Ru	98.906	Linear Thru Zero	0.0000000	0.0000000	0.000000
Ru	100.906	Linear Thru Zero	0.0000000	0.0000000	0.000000
Pd	105.903	Linear Thru Zero	0.0000000	0.0000000	0.000000
Pd	107.904	Linear Thru Zero	0.0000000	0.0000000	0.000000
Ag	106.905	Linear Thru Zero	0.0072759	0.9999918	0.000000
Ag	108.905	Linear Thru Zero	0.0069015	0.9999848	0.000000

Cd	110.904	Linear Thru Zero	0.0017423	0.9999957	0.000000
Cd	113.904	Linear Thru Zero	0.0040701	0.9999955	0.000000
In-1	114.904	Linear Thru Zero	0.0000000	0.0000000	0.000000
Sn	117.902	Linear Thru Zero	0.0050990	0.9999954	0.000000
Sb	120.904	Linear Thru Zero	0.0061122	0.9999978	0.000000
Sb	122.904	Linear Thru Zero	0.0047378	0.9999955	0.000000
Te	124.904	Linear Thru Zero	0.0000000	0.0000000	0.000000
Ba	134.906	Linear Thru Zero	0.0018808	0.9999929	0.000000
Ba	136.905	Linear Thru Zero	0.0033589	0.9999872	0.000000
La	138.906	Linear Thru Zero	0.0000000	0.0000000	0.000000
Tb-1	158.925	Linear Thru Zero	0.0000000	0.0000000	0.000000
Ho	164.930	Linear Thru Zero	0.0000000	0.0000000	0.000000
Au	196.967	Linear Thru Zero	0.0000000	0.0000000	0.000000
Hg	201.971	Linear Thru Zero	0.0000000	0.0000000	0.000000
Tl	202.972	Linear Thru Zero	0.0033737	0.9999241	0.000000
Tl	204.975	Linear Thru Zero	0.0081124	0.9999371	0.000000
Pb	207.977	Linear Thru Zero	0.0116185	0.9999442	0.000000
Bi	208.980	Linear Thru Zero	0.0095887	0.9999169	0.000000
Th-1	232.038	Linear Thru Zero	2391.1065516	1.0000000	0.000000
U-1	238.050	Linear Thru Zero	0.0055769	0.9997306	0.000000
Na	22.990	Weighted linear	0.0039095	0.9997581	0.022904
Mg	23.985	Weighted linear	0.0026418	0.9996990	0.013078
Mg	24.986	Weighted linear	0.0003682	0.9994283	0.001237
Si	27.977	Weighted linear	0.0021596	0.9995333	0.012673
P	30.994	Weighted linear	0.0002724	0.9987621	0.003169
K	38.964	Weighted linear	0.0078010	0.9996483	0.014513
Sc-1	44.956	Linear Thru Zero	0.0000000	0.0000000	0.000000
Ca	42.959	Weighted linear	0.0000064	0.9997469	0.000041
Ti	47.948	Linear Thru Zero	0.0027576	0.9999995	0.000000
Fe	53.940	Linear Thru Zero	0.0002466	0.9999726	0.000000
Fe	55.935	Linear Thru Zero	0.0036969	0.9999967	0.000000
Fe	56.935	Linear Thru Zero	0.0000950	0.9998952	0.000000
Ge-1	73.922	Linear Thru Zero	0.0000000	0.0000000	0.000000
Sc	44.956	Linear Thru Zero	0.0000000	0.0000000	0.000000
Ge	73.922	Linear Thru Zero	0.0000000	0.0000000	0.000000
In	114.904	Linear Thru Zero	0.0000000	0.0000000	0.000000
Tb	158.925	Linear Thru Zero	0.0000000	0.0000000	0.000000
Th	232.038	Linear Thru Zero	0.0000000	0.0000000	0.000000

SGS ALASKA

ELAN 6100 ICP-MS P3

Sample ID: Blank

Sample Type:

Sample Description:

Sample Date/Time: Wednesday, August 30, 2006 14:36:13

Dataset File: C:\elandata\Dataset\08.30.2006p3\Blank.001

Method File: c:\elandata\Method\SGS6020_4ALL.mth

Dual Detector Mode: Dual

Diluted To Volume (mL):

Autosampler Position: 1

Analyte	Mass	Conc. Mean	Report Unit	Meas. Intens. Mean	Blank Intensity	Meas. Intens. RSD
Li-1	7		ug/L	91.113		7.616
Be	9		ug/L	8.889		43.301
B	11		ug/L	388.901		4.721
Al	27		ug/L	3409.355		10.197
Sc-2	45		ug/L	942800.666		1.037
V	51		ug/L	-81806.522		23.286
Cr	52		ug/L	72014.481		0.610
Cr	53		ug/L	437048.659		2.354
Mn	55		ug/L	5448.908		3.169
Co	59		ug/L	143.336		10.137
Ni	58		ug/L	-3142.059		8.443
Ni	60		ug/L	28.889		24.019
Cu	63		ug/L	168.893		8.900
Cu	65		ug/L	101.113		14.866
Zn	66		ug/L	217.783		9.841
Zn	67		ug/L	36907.122		1.374
Zn	68		ug/L	2571.385		2.733
Ge-1	74		ug/L	2597625.933		0.232
As	75		ug/L	-111.689		1687.206
Se	77		ug/L	27010.410		1.829
Se	82		ug/L	818.926		4.629
Kr	83		ug/L	176.671		16.770
Sr	88		ug/L	411.124		3.277
Zr	90		ug/L	3272.652		5.159
Mo	95		ug/L	130.003		13.324
Mo	98		ug/L	119.885		19.453
Ru	99		ug/L	10.000		0.000
Ru	101		ug/L	11.111		34.641
Pd	106		mg/L	1077.836		5.806
Pd	108		mg/L	32.223		15.802
Ag	107		ug/L	200.005		5.000
Ag	109		ug/L	194.449		15.365
Cd	111		ug/L	893.313		8.789
Cd	114		ug/L	1365.540		5.696
In-1	115		ug/L	1139946.230		2.319

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Data derived from 3 replicate readings.

Sample ID: Blank

	Sn	118	ug/L	2646.957	7.209
|	Sb	121	ug/L	183.338	14.201
|	Sb	123	ug/L	174.448	2.919
|	Te	125	ug/L	20.000	28.868
|	Ba	135	ug/L	685.586	52.525
|	Ba	137	ug/L	1122.293	52.446
|	La	139	ug/L	157.781	19.053
>	Tb-1	159	ug/L	1455625.024	0.838
|	Ho	165	ug/L	10.000	66.667
|	Au	197	ug/L	16.667	40.000
|	Hg	202	ug/L	20.000	72.648
|	Tl	203	ug/L	1001.163	0.384
|	Tl	205	ug/L	2380.238	3.502
|	Pb	208	ug/L	1165.594	3.621
|	Bi	209	ug/L	9851.340	3.564
>	Th-1	232	ug/L	2556620.486	1.424
|	U-1	238	ug/L	1024.498	7.278
|	Na	23	ug/L	4238.477	2.148
|	Mg	24	ug/L	375.567	4.100
|	Mg	25	ug/L	62.223	6.186
|	Si	28	ug/L	45637.987	0.188
|	P	31	ug/L	10518.491	1.746
|	K	39	ug/L	1048476.144	0.209
>	Sc-1	45	ug/L	942800.666	1.037
|	Ca	43	ug/L	576.688	2.084
|	Ti	48	ug/L	-2176.643	6.344
|	Fe	54	ug/L	102071.456	0.943
|	Fe	56	ug/L	3383043.346	0.657
|	Fe	57	ug/L	20273.602	0.682
>	Ge-1	74	ug/L	2597625.933	0.232
|	Sc	45	ug/L	942800.666	1.037
|	Ge	74	ug/L	2597625.933	0.232
|	In	115	ug/L	1139946.230	2.319
|	Tb	159	ug/L	1455625.024	0.838
|	Th	232	mg/L	2556620.486	1.424

QC Calculated Values

Analyte	Mass	QC % rec.	Spike % rec.	RPD %	I.S. % rec.
Li-1	7				
Be	9				
B	11				
Al	27				
Sc-2	45				
V	51				
Cr	52				
Cr	53				
Mn	55				
Co	59				
Ni	58				
Ni	60				
Cu	63				

Data derived from 3 replicate readings.

Sample ID: Blank

Cu	65
Zn	66
Zn	67
Zn	68
Ge-1	74
As	75
Se	77
Se	82
Kr	83
Sr	88
Zr	90
Mo	95
Mo	98
Ru	99
Ru	101
Pd	106
Pd	108
Ag	107
Ag	109
Cd	111
Cd	114
In-1	115
Sn	118
Sb	121
Sb	123
Te	125
Ba	135
Ba	137
La	139
Tb-1	159
Ho	165
Au	197
Hg	202
Tl	203
Tl	205
Pb	208
Bi	209
Th-1	232
U-1	238
Na	23
Mg	24
Mg	25
Si	28
P	31
K	39
Sc-1	45
Ca	43
Ti	48
Fe	54
Fe	56
Fe	57
Ge-1	74
Sc	45
Ge	74

Data derived from 3 replicate readings.

Sample ID: Blank

In 115
Tb 159
Th 232

QC Out Of Limits

MassAnalyte Out of Limits Message

SGS ALASKA

ELAN 6100 ICP-MS P3

Sample ID: Standard 1

Sample Type:

Sample Description:

Sample Date/Time: Wednesday, August 30, 2006 14:40:33

Dataset File: C:\elandata\Dataset\08.30.2006p3\Standard 1.002

Method File: c:\elandata\Method\SGS6020_4ALL.mth

Dual Detector Mode: Dual

Diluted To Volume (mL):

Autosampler Position: 12

Analyte	Mass	Conc. Mean	Report Unit	Meas. Intens. Mean	Blank Intensity	Meas. Intens. RSD
Li-1	7		ug/L	233.339	91.113	5.714
Be	9	0.200	ug/L	67.779	8.889	19.876
B	11		ug/L	5530.051	388.901	1.453
Al	27		ug/L	4039.527	3409.355	2.124
Sc-2	45		ug/L	928472.518	942800.666	1.462
V	51		ug/L	-66661.638	-81806.522	33.658
Cr	52		ug/L	53882.330	72014.481	1.154
Cr	53		ug/L	343837.993	437048.659	1.133
Mn	55	0.200	ug/L	5998.026	5448.908	3.205
Co	59	0.200	ug/L	2232.434	143.336	3.246
Ni	58	0.200	ug/L	-1657.172	-3142.059	12.873
Ni	60	0.200	ug/L	468.904	28.889	9.600
Cu	63		ug/L	1100.061	168.893	4.009
Cu	65		ug/L	555.576	101.113	8.429
Zn	66		ug/L	591.133	217.783	6.536
Zn	67		ug/L	28371.961	36907.122	2.204
Zn	68		ug/L	2443.583	2571.385	5.359
Ge-1	74		ug/L	2542221.688	2597625.933	0.691
As	75		ug/L	-1197.473	-111.689	112.200
Se	77		ug/L	19558.152	27010.410	1.827
Se	82		ug/L	554.464	818.926	7.020
Kr	83		ug/L	161.115	176.671	22.696
Sr	88		ug/L	563.354	411.124	5.828
Zr	90		ug/L	1939.053	3272.652	0.775
Mo	95	0.200	ug/L	670.027	130.003	6.506
Mo	98	0.200	ug/L	1160.693	119.885	21.884
Ru	99		ug/L	13.334	10.000	66.144
Ru	101		ug/L	14.445	11.111	70.501
Pd	106		mg/L	936.713	1077.836	3.749
Pd	108		mg/L	68.890	32.223	41.718
Ag	107	0.200	ug/L	1903.492	200.005	0.463
Ag	109	0.200	ug/L	1815.702	194.449	7.384
Cd	111	0.200	ug/L	1149.502	893.313	3.336
Cd	114	0.200	ug/L	2056.598	1365.540	3.564
In-1	115		ug/L	1148847.517	1139946.230	1.770

Data derived from 3 replicate readings.

Sample ID: Standard 1

|	Sn	118	0.200	ug/L	2373.570	2646.957	5.070
|	Sb	121	0.200	ug/L	1736.803	183.338	14.899
|	Sb	123	0.200	ug/L	1241.186	174.448	4.041
|	Te	125		ug/L	16.667	20.000	87.178
|	Ba	135	0.200	ug/L	452.237	685.586	18.300
L	Ba	137	0.200	ug/L	792.257	1122.293	5.744
┌	La	139		ug/L	143.336	157.781	16.112
|>	Tb-1	159		ug/L	1451139.820	1455625.024	0.327
|	Ho	165		ug/L	16.667	10.000	87.178
L	Au	197		ug/L	33.334	16.667	60.828
┌	Hg	202		ug/L	33.334	20.000	17.321
|	Tl	203	0.200	ug/L	2466.921	1001.163	2.041
|	Tl	205	0.200	ug/L	6194.780	2380.238	3.045
|	Pb	208	0.200	ug/L	6959.679	1165.594	1.417
|	Bi	209	0.200	ug/L	13396.503	9851.340	1.543
|>	Th-1	232		ug/L	2570946.337	2556620.486	1.153
L	U-1	238		ug/L	4568.584	1024.498	0.994
┌	Na	23		ug/L	86138.234	4238.477	2.565
|	Mg	24		ug/L	51995.319	375.567	0.657
|	Mg	25		ug/L	7061.866	62.223	5.287
|	Si	28		ug/L	82882.254	45637.987	1.362
|	P	31		ug/L	13557.780	10518.491	5.483
|	K	39		ug/L	1189776.500	1048476.144	0.857
|>	Sc-1	45		ug/L	928472.518	942800.666	1.462
┌	Ca	43		ug/L	964.493	576.688	7.269
|	Ti	48	10.000	ug/L	137531.990	-2176.643	4.327
|	Fe	54		ug/L	93651.124	102071.456	0.844
|	Fe	56		ug/L	3505538.602	3383043.346	0.748
|	Fe	57		ug/L	25601.126	20273.602	1.324
|>	Ge-1	74		ug/L	2542221.688	2597625.933	0.691
	Sc	45		ug/L	928472.518	942800.666	1.462
	Ge	74		ug/L	2542221.688	2597625.933	0.691
	In	115		ug/L	1148847.517	1139946.230	1.770
	Tb	159		ug/L	1451139.820	1455625.024	0.327
	Th	232		mg/L	2570946.337	2556620.486	1.153

QC Calculated Values

Analyte	Mass	QC % rec.	Spike % rec.	RPD %	I.S. % rec.
Li-1	7				
Be	9				
B	11				
Al	27				
Sc-2	45				
V	51				
Cr	52				
Cr	53				
Mn	55				
Co	59				
Ni	58				
Ni	60				
Cu	63				

Data derived from 3 replicate readings.

Sample ID: Standard 1

Cu	65
Zn	66
Zn	67
Zn	68
Ge-1	74
As	75
Se	77
Se	82
Kr	83
Sr	88
Zr	90
Mo	95
Mo	98
Ru	99
Ru	101
Pd	106
Pd	108
Ag	107
Ag	109
Cd	111
Cd	114
In-1	115
Sn	118
Sb	121
Sb	123
Te	125
Ba	135
Ba	137
La	139
Tb-1	159
Ho	165
Au	197
Hg	202
Tl	203
Tl	205
Pb	208
Bi	209
Th-1	232
U-1	238
Na	23
Mg	24
Mg	25
Si	28
P	31
K	39
Sc-1	45
Ca	43
Ti	48
Fe	54
Fe	56
Fe	57
Ge-1	74
Sc	45
Ge	74

Data derived from 3 replicate readings.

Sample ID: Standard 1

In 115
Tb 159
Th 232

QC Out Of Limits

MassAnalyte Out of Limits Message

SGS ALASKA

ELAN 6100 ICP-MS P3

Sample ID: Standard 2

Sample Type:

Sample Description:

Sample Date/Time: Wednesday, August 30, 2006 14:44:53

Dataset File: C:\elandata\Dataset\08.30.2006p3\Standard 2.003

Method File: c:\elandata\Method\SGS6020_4ALL.mth

Dual Detector Mode: Dual

Diluted To Volume (mL):

Autosampler Position: 2

Analyte	Mass	Conc. Mean	Report Unit	Meas. Intens. Mean	Blank Intensity	Meas. Intens. RSD
Li-1	7	1.000	ug/L	848.928	91.113	1.262
Be	9	0.989	ug/L	242.228	8.889	13.785
B	11	100.000	ug/L	27919.952	388.901	2.172
Al	27	1.000	ug/L	8506.008	3409.355	2.440
Sc-2	45		ug/L	951173.442	942800.666	0.518
V	51	1.000	ug/L	-60672.405	-81806.522	21.850
Cr	52	1.000	ug/L	64757.526	72014.481	0.849
Cr	53	1.000	ug/L	387239.139	437048.659	0.582
Mn	55	1.029	ug/L	17700.142	5448.908	0.398
Co	59	1.000	ug/L	10608.561	143.336	2.835
Ni	58	0.995	ug/L	3246.147	-3142.059	11.699
Ni	60	1.001	ug/L	2292.444	28.889	2.119
Cu	63	1.000	ug/L	4929.822	168.893	4.091
Cu	65	1.000	ug/L	2528.044	101.113	3.133
Zn	66	1.000	ug/L	1783.474	217.783	2.297
Zn	67	1.000	ug/L	33150.084	36907.122	1.015
Zn	68	1.000	ug/L	3291.545	2571.385	3.039
Ge-1	74		ug/L	2545040.766	2597625.933	2.264
As	75	1.000	ug/L	575.039	-111.689	384.675
Se	77	1.000	ug/L	23120.191	27010.410	0.917
Se	82	1.000	ug/L	706.696	818.926	5.796
Kr	83		ug/L	187.782	176.671	19.146
Sr	88		ug/L	652.248	411.124	1.064
Zr	90		ug/L	3089.275	3272.652	5.493
Mo	95	1.005	ug/L	3248.201	130.003	3.632
Mo	98	0.999	ug/L	5171.151	119.885	3.971
Ru	99		ug/L	20.000	10.000	50.000
Ru	101		ug/L	8.889	11.111	57.282
Pd	106		mg/L	1253.409	1077.836	3.136
Pd	108		mg/L	203.338	32.223	11.822
Ag	107	1.002	ug/L	9208.677	200.005	2.392
Ag	109	1.002	ug/L	8760.609	194.449	0.934
Cd	111	1.014	ug/L	2844.027	893.313	1.196
Cd	114	1.010	ug/L	5973.977	1365.540	6.296
In-1	115		ug/L	1152691.478	1139946.230	0.507

Data derived from 3 replicate readings.

Sample ID: Standard 2

|	Sn	118	1.053	ug/L	7526.552	2646.957	1.643
|	Sb	121	0.994	ug/L	6979.599	183.338	2.185
|	Sb	123	0.999	ug/L	5395.553	174.448	1.042
|	Te	125		ug/L	25.556	20.000	52.715
|	Ba	135	1.076	ug/L	2121.304	685.586	1.409
L	Ba	137	1.068	ug/L	3746.109	1122.293	3.394
┌	La	139		ug/L	153.337	157.781	2.174
|>	Tb-1	159		ug/L	1450052.840	1455625.024	0.605
|	Ho	165		ug/L	5.556	10.000	91.652
L	Au	197		ug/L	25.556	16.667	27.152
┌	Hg	202		ug/L	22.223	20.000	37.749
|	Tl	203	1.006	ug/L	9782.402	1001.163	3.030
|	Tl	205	1.003	ug/L	23648.841	2380.238	0.321
|	Pb	208	1.002	ug/L	32388.384	1165.594	0.143
|	Bi	209	1.012	ug/L	35546.988	9851.340	1.104
|>	Th-1	232		ug/L	2614632.340	2556620.486	0.978
L	U-1	238	1.000	ug/L	20335.933	1024.498	4.485
┌	Na	23		ug/L	397166.806	4238.477	2.185
|	Mg	24		ug/L	263537.738	375.567	1.454
|	Mg	25		ug/L	36151.847	62.223	1.138
|	Si	28		ug/L	262933.174	45637.987	2.778
|	P	31		ug/L	39420.537	10518.491	1.726
|	K	39		ug/L	1811827.698	1048476.144	0.468
|>	Sc-1	45		ug/L	951173.442	942800.666	0.518
┌	Ca	43		ug/L	2292.445	576.688	8.309
|	Ti	48	99.046	ug/L	706537.920	-2176.643	1.131
|	Fe	54	100.000	ug/L	167016.073	102071.456	2.180
|	Fe	56	100.000	ug/L	4339732.234	3383043.346	1.077
|	Fe	57	100.000	ug/L	48722.647	20273.602	0.669
|>	Ge-1	74		ug/L	2545040.766	2597625.933	2.264
	Sc	45		ug/L	951173.442	942800.666	0.518
	Ge	74		ug/L	2545040.766	2597625.933	2.264
	In	115		ug/L	1152691.478	1139946.230	0.507
	Tb	159		ug/L	1450052.840	1455625.024	0.605
	Th	232		mg/L	2614632.340	2556620.486	0.978

QC Calculated Values

Analyte	Mass	QC % rec.	Spike % rec.	RPD %	I.S. % rec.
Li-1	7				
Be	9				
B	11				
Al	27				
Sc-2	45				
V	51				
Cr	52				
Cr	53				
Mn	55				
Co	59				
Ni	58				
Ni	60				
Cu	63				

Data derived from 3 replicate readings.

Sample ID: Standard 2

Cu	65
Zn	66
Zn	67
Zn	68
Ge-1	74
As	75
Se	77
Se	82
Kr	83
Sr	88
Zr	90
Mo	95
Mo	98
Ru	99
Ru	101
Pd	106
Pd	108
Ag	107
Ag	109
Cd	111
Cd	114
In-1	115
Sn	118
Sb	121
Sb	123
Te	125
Ba	135
Ba	137
La	139
Tb-1	159
Ho	165
Au	197
Hg	202
Tl	203
Tl	205
Pb	208
Bi	209
Th-1	232
U-1	238
Na	23
Mg	24
Mg	25
Si	28
P	31
K	39
Sc-1	45
Ca	43
Ti	48
Fe	54
Fe	56
Fe	57
Ge-1	74
Sc	45
Ge	74

Data derived from 3 replicate readings.

Sample ID: Standard 2

In 115
Tb 159
Th 232

QC Out Of Limits

MassAnalyte Out of Limits Message

Data derived from 3 replicate readings.

Sample ID: Standard 2

SGS ALASKA

ELAN 6100 ICP-MS P3

Sample ID: Standard 3

Sample Type:

Sample Description:

Sample Date/Time: Wednesday, August 30, 2006 14:49:14

Dataset File: C:\elandata\Dataset\08.30.2006p3\Standard 3.004

Method File: c:\elandata\Method\SGS6020_4ALL.mth

Dual Detector Mode: Dual

Diluted To Volume (mL):

Autosampler Position: 3

Analyte	Mass	Conc. Mean	Report Unit	Meas. Intens. Mean	Blank Intensity	Meas. Intens. RSD
Li-1	7	9.999	ug/L	7636.612	91.113	1.012
Be	9	9.995	ug/L	2272.441	8.889	4.378
B	11	1000.457	ug/L	289574.905	388.901	2.680
Al	27	10.005	ug/L	56770.196	3409.355	1.064
Sc-2	45		ug/L	953165.904	942800.666	1.990
V	51	9.969	ug/L	67656.890	-81806.522	153.246
Cr	52	10.188	ug/L	136492.365	72014.481	0.888
Cr	53	9.258	ug/L	380130.053	437048.659	1.269
Mn	55	10.010	ug/L	136743.716	5448.908	1.569
Co	59	9.998	ug/L	102284.377	143.336	1.171
Ni	58	9.997	ug/L	58223.015	-3142.059	2.268
Ni	60	9.998	ug/L	22064.065	28.889	2.101
Cu	63	9.997	ug/L	46118.425	168.893	0.725
Cu	65	9.999	ug/L	23842.500	101.113	0.990
Zn	66	9.988	ug/L	14110.534	217.783	0.805
Zn	67	8.940	ug/L	33572.183	36907.122	0.269
Zn	68	10.012	ug/L	11245.725	2571.385	2.283
Ge-1	74		ug/L	2524792.846	2597625.933	1.413
As	75	10.058	ug/L	15630.603	-111.689	1.155
Se	77	9.037	ug/L	23436.267	27010.410	1.242
Se	82	10.179	ug/L	2011.286	818.926	2.537
Kr	83		ug/L	261.118	176.671	6.033
Sr	88		ug/L	977.828	411.124	8.970
Zr	90		ug/L	17868.176	3272.652	7.719
Mo	95	9.999	ug/L	30756.929	130.003	2.048
Mo	98	9.997	ug/L	48755.377	119.885	1.555
Ru	99		ug/L	20.000	10.000	28.868
Ru	101		ug/L	16.667	11.111	72.111
Pd	106		mg/L	3197.078	1077.836	2.256
Pd	108		mg/L	1486.769	32.223	4.331
Ag	107	9.997	ug/L	85023.721	200.005	1.591
Ag	109	9.998	ug/L	81782.567	194.449	0.520
Cd	111	10.004	ug/L	20211.738	893.313	1.399
Cd	114	10.002	ug/L	46283.517	1365.540	1.679
In-1	115		ug/L	1121105.907	1139946.230	1.004

Data derived from 3 replicate readings.

Sample ID: Standard 3

|	Sn	118	10.022	ug/L	59612.909	2646.957	1.529
|	Sb	121	10.000	ug/L	66531.247	183.338	1.435
|	Sb	123	10.002	ug/L	51749.987	174.448	1.140
|	Te	125		ug/L	20.000	20.000	33.333
|	Ba	135	10.037	ug/L	20885.606	685.586	1.263
|	Ba	137	10.034	ug/L	36529.490	1122.293	2.190
|	La	139		ug/L	281.119	157.781	7.245
>	Tb-1	159		ug/L	1452745.000	1455625.024	0.667
|	Ho	165		ug/L	11.111	10.000	17.321
|	Au	197		ug/L	24.445	16.667	7.873
|	Hg	202		ug/L	21.111	20.000	65.737
|	Tl	203	9.995	ug/L	86631.142	1001.163	1.616
|	Tl	205	9.995	ug/L	211134.578	2380.238	0.909
|	Pb	208	9.995	ug/L	308368.742	1165.594	0.231
|	Bi	209	9.996	ug/L	261997.579	9851.340	1.530
>	Th-1	232		ug/L	2703178.348	2556620.486	2.224
|	U-1	238	9.998	ug/L	197233.327	1024.498	0.974
|	Na	23	1000.000	ug/L	3832591.898	4238.477	0.631
|	Mg	24	1000.000	ug/L	2591572.447	375.567	1.410
|	Mg	25	1000.000	ug/L	363750.010	62.223	0.681
|	Si	28	1000.000	ug/L	2178071.629	45637.987	1.175
|	P	31	1000.000	ug/L	286076.043	10518.491	2.193
|	K	39	1000.000	ug/L	8703978.655	1048476.144	2.207
>	Sc-1	45		ug/L	953165.904	942800.666	1.990
|	Ca	43	1000.000	ug/L	17140.563	576.688	0.662
|	Ti	48	999.801	ug/L	6959265.127	-2176.643	1.644
|	Fe	54	1000.054	ug/L	767576.612	102071.456	1.370
|	Fe	56	999.345	ug/L	12844858.165	3383043.346	1.070
|	Fe	57	999.557	ug/L	293881.876	20273.602	1.646
>	Ge-1	74		ug/L	2524792.846	2597625.933	1.413
|	Sc	45		ug/L	953165.904	942800.666	1.990
|	Ge	74		ug/L	2524792.846	2597625.933	1.413
|	In	115		ug/L	1121105.907	1139946.230	1.004
|	Tb	159		ug/L	1452745.000	1455625.024	0.667
|	Th	232		mg/L	2703178.348	2556620.486	2.224

QC Calculated Values

Analyte	Mass	QC % rec.	Spike % rec.	RPD %	I.S. % rec.
Li-1	7				
Be	9				
B	11				
Al	27				
Sc-2	45				
V	51				
Cr	52				
Cr	53				
Mn	55				
Co	59				
Ni	58				
Ni	60				
Cu	63				

Data derived from 3 replicate readings.

Sample ID: Standard 3

Cu	65
Zn	66
Zn	67
Zn	68
Ge-1	74
As	75
Se	77
Se	82
Kr	83
Sr	88
Zr	90
Mo	95
Mo	98
Ru	99
Ru	101
Pd	106
Pd	108
Ag	107
Ag	109
Cd	111
Cd	114
In-1	115
Sn	118
Sb	121
Sb	123
Te	125
Ba	135
Ba	137
La	139
Tb-1	159
Ho	165
Au	197
Hg	202
Tl	203
Tl	205
Pb	208
Bi	209
Th-1	232
U-1	238
Na	23
Mg	24
Mg	25
Si	28
P	31
K	39
Sc-1	45
Ca	43
Ti	48
Fe	54
Fe	56
Fe	57
Ge-1	74
Sc	45
Ge	74

Data derived from 3 replicate readings.

Sample ID: Standard 3

In 115
Tb 159
Th 232

QC Out Of Limits

MassAnalyte Out of Limits Message

SGS ALASKA

ELAN 6100 ICP-MS P3

Sample ID: Standard 4

Sample Type:

Sample Description:

Sample Date/Time: Wednesday, August 30, 2006 14:53:35

Dataset File: C:\elandata\Dataset\08.30.2006p3\Standard 4.005

Method File: c:\elandata\Method\SGS6020_4ALL.mth

Dual Detector Mode: Dual

Diluted To Volume (mL):

Autosampler Position: 4

Analyte	Mass	Conc. Mean	Report Unit	Meas. Intens. Mean	Blank Intensity	Meas. Intens. RSD
Li-1	7	99.966	ug/L	71780.037	91.113	2.481
Be	9	99.962	ug/L	21414.182	8.889	3.058
B	11	9995.958	ug/L	2728506.802	388.901	0.755
Al	27	99.895	ug/L	476746.231	3409.355	1.089
Sc-2	45		ug/L	936010.081	942800.666	1.602
V	51	99.649	ug/L	947965.663	-81806.522	0.564
Cr	52	100.137	ug/L	779688.581	72014.481	1.521
Cr	53	-1414.382	ug/L	404800.709	437048.659	0.413
Mn	55	99.964	ug/L	1200192.870	5448.908	0.588
Co	59	99.942	ug/L	910944.138	143.336	1.073
Ni	58	99.951	ug/L	548321.508	-3142.059	1.318
Ni	60	99.948	ug/L	197546.419	28.889	0.108
Cu	63	99.908	ug/L	396923.211	168.893	0.895
Cu	65	99.909	ug/L	205263.193	101.113	1.044
Zn	66	99.943	ug/L	124382.315	217.783	0.307
Zn	67	103.080	ug/L	46001.378	36907.122	0.262
Zn	68	99.955	ug/L	81174.713	2571.385	1.939
Ge-1	74		ug/L	2380990.539	2597625.933	1.721
As	75	99.959	ug/L	141634.298	-111.689	4.406
Se	77	106.888	ug/L	30148.950	27010.410	0.729
Se	82	100.182	ug/L	14517.615	818.926	0.889
Kr	83		ug/L	792.258	176.671	12.263
Sr	88		ug/L	4035.082	411.124	1.536
Zr	90		ug/L	73386.910	3272.652	8.994
Mo	95	100.005	ug/L	290490.785	130.003	0.358
Mo	98	100.012	ug/L	464612.355	119.885	1.777
Ru	99		ug/L	72.224	10.000	19.215
Ru	101		ug/L	21.111	11.111	24.119
Pd	106		mg/L	18990.710	1077.836	1.198
Pd	108		mg/L	12946.080	32.223	1.152
Ag	107	99.959	ug/L	765321.270	200.005	1.679
Ag	109	99.945	ug/L	725777.035	194.449	1.019
Cd	111	99.981	ug/L	178757.533	893.313	1.361
Cd	114	99.985	ug/L	416639.561	1365.540	2.569
In-1	115		ug/L	1052010.756	1139946.230	1.190

Data derived from 3 replicate readings.

Sample ID: Standard 4

|	Sn	118	100.005	ug/L	538830.400	2646.957	0.323
|	Sb	121	100.011	ug/L	629904.280	183.338	0.922
|	Sb	123	99.999	ug/L	483701.535	174.448	1.443
|	Te	125		ug/L	15.556	20.000	61.859
|	Ba	135	100.008	ug/L	191128.882	685.586	1.090
L	Ba	137	100.013	ug/L	336688.056	1122.293	0.438
┌	La	139		ug/L	1374.534	157.781	4.182
|>	Tb-1	159		ug/L	1390701.976	1455625.024	2.382
|	Ho	165		ug/L	15.556	10.000	75.255
L	Au	197		ug/L	23.334	16.667	14.286
┌	Hg	202		ug/L	22.223	20.000	22.913
|	Tl	203	99.929	ug/L	811657.726	1001.163	0.639
|	Tl	205	99.928	ug/L	1975963.547	2380.238	1.922
|	Pb	208	99.906	ug/L	2848415.859	1165.594	0.160
|	Bi	209	99.885	ug/L	2298837.561	9851.340	2.533
|>	Th-1	232		ug/L	2740290.956	2556620.486	1.477
L	U-1	238	99.942	ug/L	1880916.496	1024.498	0.293
┌	Na	23	9802.979	ug/L	35890419.154	4238.477	1.460
|	Mg	24	9780.228	ug/L	24197019.582	375.567	1.870
|	Mg	25	9697.066	ug/L	3343145.282	62.223	2.374
|	Si	28	9726.322	ug/L	19714166.445	45637.987	1.233
|	P	31	9554.019	ug/L	2449120.507	10518.491	1.861
|	K	39	9762.439	ug/L	72327399.700	1048476.144	2.361
|>	Sc-1	45		ug/L	936010.081	942800.666	1.602
┌	Ca	43	9798.504	ug/L	149617.746	576.688	2.414
|	Ti	48	9999.979	ug/L	65638789.303	-2176.643	1.621
|	Fe	54	9992.563	ug/L	5959342.259	102071.456	1.511
|	Fe	56	9997.493	ug/L	91086945.036	3383043.346	0.713
|	Fe	57	9985.460	ug/L	2276313.481	20273.602	1.258
|>	Ge-1	74		ug/L	2380990.539	2597625.933	1.721
	Sc	45		ug/L	936010.081	942800.666	1.602
	Ge	74		ug/L	2380990.539	2597625.933	1.721
	In	115		ug/L	1052010.756	1139946.230	1.190
	Tb	159		ug/L	1390701.976	1455625.024	2.382
	Th	232		mg/L	2740290.956	2556620.486	1.477

QC Calculated Values

Analyte	Mass	QC % rec.	Spike % rec.	RPD %	I.S. % rec.
Li-1	7				
Be	9				
B	11				
Al	27				
Sc-2	45				
V	51				
Cr	52				
Cr	53				
Mn	55				
Co	59				
Ni	58				
Ni	60				
Cu	63				

Data derived from 3 replicate readings.

Sample ID: Standard 4

Cu	65
Zn	66
Zn	67
Zn	68
Ge-1	74
As	75
Se	77
Se	82
Kr	83
Sr	88
Zr	90
Mo	95
Mo	98
Ru	99
Ru	101
Pd	106
Pd	108
Ag	107
Ag	109
Cd	111
Cd	114
In-1	115
Sn	118
Sb	121
Sb	123
Te	125
Ba	135
Ba	137
La	139
Tb-1	159
Ho	165
Au	197
Hg	202
Tl	203
Tl	205
Pb	208
Bi	209
Th-1	232
U-1	238
Na	23
Mg	24
Mg	25
Si	28
P	31
K	39
Sc-1	45
Ca	43
Ti	48
Fe	54
Fe	56
Fe	57
Ge-1	74
Sc	45
Ge	74

Data derived from 3 replicate readings.

Sample ID: Standard 4

In 115
Tb 159
Th 232

QC Out Of Limits

MassAnalyte Out of Limits Message

SGS ALASKA

ELAN 6100 ICP-MS P3

Sample ID: Standard 5

Sample Type:

Sample Description:

Sample Date/Time: Wednesday, August 30, 2006 14:59:19

Dataset File: C:\elandata\Dataset\08.30.2006p3\Standard 5.006

Method File: c:\elandata\Method\SGS6020_4ALL.mth

Dual Detector Mode: Dual

Diluted To Volume (mL):

Autosampler Position: 8

Analyte	Mass	Conc. Mean	Report Unit	Meas. Intens. Mean	Blank Intensity	Meas. Intens. RSD
Li-1	7	1001.801	ug/L	720424.493	91.113	0.854
Be	9	1001.930	ug/L	218570.926	8.889	1.224
B	11	59.131	ug/L	13620.052	388.901	2.302
Al	27	999.626	ug/L	3766492.150	3409.355	4.545
Sc-2	45		ug/L	771339.878	942800.666	1.277
V	51	998.388	ug/L	7944936.940	-81806.522	2.006
Cr	52	1000.452	ug/L	6825511.215	72014.481	1.759
Cr	53	1010.137	ug/L	1138168.155	437048.659	1.472
Mn	55	1000.174	ug/L	11035895.802	5448.908	1.322
Co	59	1000.309	ug/L	8525896.862	143.336	1.358
Ni	58	997.588	ug/L	4023678.671	-3142.059	1.071
Ni	60	1000.027	ug/L	1796579.449	28.889	2.089
Cu	63	1000.173	ug/L	3664734.829	168.893	0.823
Cu	65	999.623	ug/L	1794420.502	101.113	1.305
Zn	66	998.838	ug/L	1009326.638	217.783	0.716
Zn	67	1003.977	ug/L	208047.476	36907.122	0.735
Zn	68	1000.493	ug/L	754173.283	2571.385	1.414
Ge-1	74		ug/L	2158400.634	2597625.933	0.615
As	75	1000.328	ug/L	1328687.334	-111.689	0.971
Se	77	1005.310	ug/L	119471.856	27010.410	2.188
Se	82	1000.512	ug/L	131985.789	818.926	0.835
Kr	83		ug/L	245.562	176.671	32.589
Sr	88		ug/L	863.374	411.124	6.426
Zr	90		ug/L	3057.045	3272.652	4.251
Mo	95	1027.952	ug/L	2706479.205	130.003	1.398
Mo	98	1021.588	ug/L	4301774.410	119.885	1.435
Ru	99		ug/L	480.016	10.000	4.554
Ru	101		ug/L	160.004	11.111	19.874
Pd	106		mg/L	160665.751	1077.836	1.943
Pd	108		mg/L	119369.755	32.223	0.734
Ag	107	0.046	ug/L	488.905	200.005	10.874
Ag	109	0.052	ug/L	507.795	194.449	7.379
Cd	111	1000.293	ug/L	1670341.894	893.313	1.074
Cd	114	1000.300	ug/L	3901164.343	1365.540	0.375
In-1	115		ug/L	958101.909	1139946.230	1.595

Data derived from 3 replicate readings.

Sample ID: Standard 5

|	Sn	118	1046.353	ug/L	5113686.508	2646.957	0.903
|	Sb	121	1000.209	ug/L	5856807.796	183.338	0.590
|	Sb	123	1000.301	ug/L	4540348.762	174.448	0.777
|	Te	125		ug/L	32.223	20.000	21.535
|	Ba	135	1000.377	ug/L	1803132.328	685.586	1.382
L	Ba	137	1000.507	ug/L	3220019.789	1122.293	1.161
┌	La	139		ug/L	2505.817	157.781	1.948
>	Tb-1	159		ug/L	1292305.493	1455625.024	1.908
|	Ho	165		ug/L	22.223	10.000	34.641
L	Au	197		ug/L	28.889	16.667	13.323
┌	Hg	202		ug/L	24.445	20.000	67.267
|	Tl	203	1001.236	ug/L	8077001.476	1001.163	0.599
|	Tl	205	1001.126	ug/L	19419320.811	2380.238	0.927
|	Pb	208	1001.058	ug/L	27811291.730	1165.594	1.689
|	Bi	209	1001.292	ug/L	22965246.472	9851.340	1.827
>	Th-1	232		ug/L	2391106.552	2556620.486	0.993
L	U-1	238	997.668	ug/L	13304945.950	1024.498	1.394
┌	Na	23	1.576	ug/L	25877.215	4238.477	4.717
|	Mg	24	-3.793	ug/L	2665.849	375.567	4.962
|	Mg	25	-1.594	ug/L	552.242	62.223	6.676
|	Si	28	59.376	ug/L	145997.044	45637.987	1.830
|	P	31	1.065	ug/L	11279.099	10518.491	7.377
|	K	39	2.999	ug/L	887001.058	1048476.144	0.813
>	Sc-1	45		ug/L	771339.878	942800.666	1.277
┌	Ca	43	21.214	ug/L	858.929	576.688	10.123
|	Ti	48	6.471	ug/L	36717.639	-2176.643	13.793
|	Fe	54	54.829	ug/L	113999.366	102071.456	3.028
|	Fe	56	7.280	ug/L	2869091.335	3383043.346	1.253
|	Fe	57	13.385	ug/L	19591.539	20273.602	3.382
>	Ge-1	74		ug/L	2158400.634	2597625.933	0.615
	Sc	45		ug/L	771339.878	942800.666	1.277
	Ge	74		ug/L	2158400.634	2597625.933	0.615
	In	115		ug/L	958101.909	1139946.230	1.595
	Tb	159		ug/L	1292305.493	1455625.024	1.908
	Th	232		mg/L	2391106.552	2556620.486	0.993

QC Calculated Values

Analyte	Mass	QC % rec.	Spike % rec.	RPD %	I.S. % rec.
Li-1	7				
Be	9				
B	11				
Al	27				
Sc-2	45				
V	51				
Cr	52				
Cr	53				
Mn	55				
Co	59				
Ni	58				
Ni	60				
Cu	63				

Data derived from 3 replicate readings.

Sample ID: Standard 5

Cu	65
Zn	66
Zn	67
Zn	68
Ge-1	74
As	75
Se	77
Se	82
Kr	83
Sr	88
Zr	90
Mo	95
Mo	98
Ru	99
Ru	101
Pd	106
Pd	108
Ag	107
Ag	109
Cd	111
Cd	114
In-1	115
Sn	118
Sb	121
Sb	123
Te	125
Ba	135
Ba	137
La	139
Tb-1	159
Ho	165
Au	197
Hg	202
Tl	203
Tl	205
Pb	208
Bi	209
Th-1	232
U-1	238
Na	23
Mg	24
Mg	25
Si	28
P	31
K	39
Sc-1	45
Ca	43
Ti	48
Fe	54
Fe	56
Fe	57
Ge-1	74
Sc	45
Ge	74

Data derived from 3 replicate readings.

Sample ID: Standard 5

In 115
Tb 159
Th 232

QC Out Of Limits

MassAnalyte Out of Limits Message

Section 9.1

Section Contents:

SGS Work Order: 1064875

Section : 9 A2540G

Standard Method (19th) 2540 G: Total, Fixed and Vol. Solids

Extraction Batch SPT6918

Analytical Batch: SPT6918

	<u>HSN</u>	<u>Client ID</u>
Client Sample	1064875009	06GAM12SL03Re
Lab Duplicate	721715	
Method Blank	721621	
Horizon Run Log		
Analytical Log Page		

Lab Report No.: 1064875 Date: 09/20/2006

Page: 45

Project Name: 56016 Gambell FUDS Rem Ac			Project No: 05-013							
Field ID: 06GAM12SL03Re			Sample Date: 08/15/2006			Basis: Dry				
Descr/Location:			Sample Time: 2100			Matrix: Soil				
			Lab Samp ID: 1064875009							
Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date	QC Batch
Total Solids	NA	NA		94.9	PERCE	dw 1	NONE	A2540G	08/22/20	SPT6918

Approved by: _____ Date: _____

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QA/QC Report Lab Duplicate Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 105

QC Batch:	SPT6918	Project Name:	Lab Generated or Non COE Sample
Matrix:	Soil	Project No.:	Lab Generated or Non COE Sample
Lab Samp ID:	721715	Field ID:	Lab Generated or Non COE Sample
Basis:	Dry	Lab Ref ID:	1064802012

Analyte	Analysis Method	Detection Limit	Reporting Limit		Result	Duplicate Result	Units	Average	RPD	Acceptance Criteria
Total Solids	A2540G	NA	NA	PQL	93.7	92.4	PERCENT	93.1	1.4	5MELR

QA/QC Report Method Blank Summary

SGS Environmental Services Inc., Anchorage, AK

Lab Report No.: 1064875 Date: 09/20/2006

Page: 104

QC Batch: SPT6918 Matrix: Soil/Solid QC Lab Samp ID: 721621									
Analyte	Detection Limit	Reporting Limit	Note	Result	Units	Dil	Prep Method	Analysis Method	Analysis Date
Total Solids	NA	NA		100.	PERCENT	1	NONE	A2540G	08/22/20

SGS Environmental Services

RunLog

METHODS: SM20 2540G

PROJECT	HSN	SAMPLE TYPE	RUN DATE/TIME	RUN INST	DIL	ANAL BATCH	PREP BATCH	SEQ
	721621	MB	8/22/2006 9:25:00 AM			6918SPT		1
1064802	1064802001	PS	8/22/2006 9:25:00 AM			6918SPT		2
1064802	1064802002	PS	8/22/2006 9:25:00 AM			6918SPT		3
1064802	1064802003	PS	8/22/2006 9:25:00 AM			6918SPT		4
1064802	1064802004	PS	8/22/2006 9:25:00 AM			6918SPT		5
1064802	1064802005	PS	8/22/2006 9:25:00 AM			6918SPT		6
1064802	1064802006	PS	8/22/2006 9:25:00 AM			6918SPT		7
1064802	1064802007	PS	8/22/2006 9:25:00 AM			6918SPT		8
1064802	1064802008	PS	8/22/2006 9:25:00 AM			6918SPT		9
1064802	1064802009	PS	8/22/2006 9:25:00 AM			6918SPT		10
1064802	1064802010	PS	8/22/2006 9:25:00 AM			6918SPT		11
1064802	1064802011	PS	8/22/2006 9:25:00 AM			6918SPT		12
1064802	1064802012	PS	8/22/2006 9:25:00 AM			6918SPT		13
1064802	1064802013	PS	8/22/2006 9:25:00 AM			6918SPT		14
1064802	1064802014	PS	8/22/2006 9:25:00 AM			6918SPT		15
1064802	1064802015	TB	8/22/2006 9:25:00 AM			6918SPT		16
1064864	1064864003	PS	8/22/2006 9:25:00 AM			6918SPT		17
1064864	1064864004	PS	8/22/2006 9:25:00 AM			6918SPT		18
1064864	1064864005	PS	8/22/2006 9:25:00 AM			6918SPT		19
1064864	1064864006	PS	8/22/2006 9:25:00 AM			6918SPT		20
1064875	1064875009	PS	8/22/2006 9:25:00 AM			6918SPT		21
	721715	DUP	8/22/2006 9:25:00 AM			6918SPT		22



Environmental Services

Percent Solids Bench Sheet

Method: SM18 2540G

Analysis Start Date/Time: 8/22/06 0925Posted By / Date: BNE 8/22/06Finish Date/Time: 8/22/06 1430Batch Released By: STV 8-22-06Technician: BNEHorizon Batch No. (QUEUE & HBN) SPT- 6918

#	WO No.	Initial Pan Wt. gm	Wet Sam. & Pan gm	Dry Sam. & Pan gm	% Solid	COMMENTS
1	Method Blank	1.179	13.523	13.519		
2	4802-1 B	1.183	13.674	13.054		
3	-2	1.176	13.266	12.036		
4	-3	1.192	13.892	12.901		
5	-4	1.182 ^{avg}	13.211	12.428		
6	-5	1.169	13.265	12.048		
7	-6	1.177	13.346	11.939		
8	-7	1.170	13.567	12.867		
9	-8	1.185	13.373	12.629		
10	-9	1.182	13.359	12.633		
11	-10	1.175	13.696	12.941		
12	-11	1.181	13.359	12.824		
13	-12	1.180	13.316	12.557		
14	-13	1.181	13.496	12.799		
15	-14 ✓	1.181	13.245	12.416		
16	-15 A	1	12	12		TB
17	4864-3 A	1.178	13.344	10.546		
18	-4	1.188	13.207	9.475		
19	-5	1.164	13.255	10.239		
20	-6 ✓	1.187	13.811	13.393		
21	4875-9 A	1.179	13.478	12.853		
22	4802-12 B Dup.	1.172 ^{dup}	13.528	12.587		

NOTES

Error Summary Log

09/29/06

EDF 1.2i All files present in deliverable.

Laboratory:	SGS Environmental Services Inc., Anchorage, AK
Project Name:	56016 Gambell FUDS Rem Ac
Work Order Number:	05-013
Global ID:	NA
Lab Report Number:	1064875

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
1064875	06GAM05GS17	1064875001	WG	CS	8270SIM	SW3510C	08/17/06	08/23/06	08/29/06	XXX17166	1
1064875	06GAM05GS17	1064875001	WG	CS	AK101	SW5030B	08/17/06	08/31/06	08/31/06	VXX15887	1
1064875	06GAM05GS17	1064875001	WG	CS	AK102	SW3520C	08/17/06	08/22/06	08/23/06	XXX17157	1
1064875	06GAM05GS17	1064875001	WG	CS	AK103	SW3520C	08/17/06	08/22/06	08/23/06	XXX17157A	1
1064875	06GAM05GS17	1064875001	WG	CS	SW6020	SW3010A	08/17/06	08/22/06	08/24/06	MXX18020	1
1064875	06GAM05GS17	1064875001	WG	CS	SW6020	SW3010A	08/17/06	08/22/06	08/30/06	MXX18020	2
1064875	06GAM05GS17	1064875001	WG	CS	SW8260B	SW5030B	08/17/06	08/22/06	08/23/06	VXX15821	1
1064875	06GAM05GS18	1064875002	WG	CS	AK101	SW5030B	08/16/06	08/30/06	08/30/06	VXX15877	1
1064875	06GAM05GS18	1064875002	WG	CS	SW6020	SW3010A	08/16/06	08/22/06	08/24/06	MXX18020	1
1064875	06GAM05GS18	1064875002	WG	CS	SW6020	SW3010A	08/16/06	08/22/06	08/30/06	MXX18020	2
1064875	06GAM05GS18	1064875002	WG	CS	SW8260B	SW5030B	08/16/06	08/22/06	08/23/06	VXX15821	1
1064875	06GAM05GS19	1064875003	WG	CS	8270SIM	SW3510C	08/16/06	08/23/06	08/29/06	XXX17166	1
1064875	06GAM05GS19	1064875003	WG	CS	AK101	SW5030B	08/16/06	08/28/06	08/28/06	VXX15871	1
1064875	06GAM05GS19	1064875003	WG	CS	AK102	SW3520C	08/16/06	08/23/06	08/24/06	XXX17165	1
1064875	06GAM05GS19	1064875003	WG	CS	AK103	SW3520C	08/16/06	08/23/06	08/24/06	XXX17165A	1
1064875	06GAM05GS19	1064875003	WG	CS	SW6020	SW3010A	08/16/06	08/22/06	08/24/06	MXX18020	1
1064875	06GAM05GS19	1064875003	WG	CS	SW6020	SW3010A	08/16/06	08/22/06	08/30/06	MXX18020	2
1064875	06GAM05GS19	1064875003	WG	CS	SW8260B	SW5030B	08/16/06	08/22/06	08/23/06	VXX15821	1
1064875	06GAM05GS21	1064875004	WG	CS	8270SIM	SW3510C	08/16/06	08/23/06	08/29/06	XXX17166	1
1064875	06GAM05GS21	1064875004	WG	CS	AK101	SW5030B	08/16/06	08/28/06	08/28/06	VXX15871	1
1064875	06GAM05GS21	1064875004	WG	CS	AK102	SW3520C	08/16/06	08/23/06	08/24/06	XXX17165	1
1064875	06GAM05GS21	1064875004	WG	CS	AK103	SW3520C	08/16/06	08/23/06	08/24/06	XXX17165A	1
1064875	06GAM05GS21	1064875004	WG	CS	SW6020	SW3010A	08/16/06	08/22/06	08/24/06	MXX18020	1
1064875	06GAM05GS21	1064875004	WG	CS	SW6020	SW3010A	08/16/06	08/22/06	08/30/06	MXX18020	2
1064875	06GAM05GS21	1064875004	WG	CS	SW8260B	SW5030B	08/16/06	08/22/06	08/23/06	VXX15821	1
1064875	06GAM05GS22	1064875005	WG	CS	8270SIM	SW3510C	08/16/06	08/23/06	08/29/06	XXX17166	1
1064875	06GAM05GS22	1064875005	WG	CS	AK101	SW5030B	08/16/06	08/28/06	08/28/06	VXX15871	1
1064875	06GAM05GS22	1064875005	WG	CS	AK102	SW3520C	08/16/06	08/23/06	08/24/06	XXX17165	1
1064875	06GAM05GS22	1064875005	WG	CS	AK103	SW3520C	08/16/06	08/23/06	08/24/06	XXX17165A	1
1064875	06GAM05GS22	1064875005	WG	CS	SW6020	SW3010A	08/16/06	08/22/06	08/24/06	MXX18020	1
1064875	06GAM05GS22	1064875005	WG	CS	SW6020	SW3010A	08/16/06	08/22/06	08/30/06	MXX18020	2
1064875	06GAM05GS22	1064875005	WG	CS	SW8260B	SW5030B	08/16/06	08/22/06	08/23/06	VXX15821	1
1064875	06GAM05GS23	1064875006	WG	CS	8270SIM	SW3510C	08/16/06	08/23/06	08/29/06	XXX17166	1
1064875	06GAM05GS23	1064875006	WG	CS	AK101	SW5030B	08/16/06	08/30/06	08/30/06	VXX15877	1
1064875	06GAM05GS23	1064875006	WG	CS	AK102	SW3520C	08/16/06	08/23/06	08/24/06	XXX17165	1
1064875	06GAM05GS23	1064875006	WG	CS	AK103	SW3520C	08/16/06	08/23/06	08/24/06	XXX17165A	1
1064875	06GAM05GS23	1064875006	WG	CS	SW6020	SW3010A	08/16/06	08/22/06	08/24/06	MXX18020	1
1064875	06GAM05GS23	1064875006	WG	CS	SW6020	SW3010A	08/16/06	08/22/06	08/30/06	MXX18020	2
1064875	06GAM05GS23	1064875006	WG	CS	SW8260B	SW5030B	08/16/06	08/22/06	08/23/06	VXX15821	1

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
1064875	06GAM05GS24	1064875007	WG	CS	8270SIM	SW3510C	08/16/06	08/23/06	08/29/06	XXX17166	1
1064875	06GAM05GS24	1064875007	WG	CS	AK101	SW5030B	08/16/06	08/30/06	08/30/06	VXX15877	1
1064875	06GAM05GS24	1064875007	WG	CS	AK102	SW3520C	08/16/06	08/23/06	08/24/06	XXX17165	1
1064875	06GAM05GS24	1064875007	WG	CS	AK103	SW3520C	08/16/06	08/23/06	08/24/06	XXX17165A	1
1064875	06GAM05GS24	1064875007	WG	CS	SW6020	SW3010A	08/16/06	08/22/06	08/24/06	MXX18020	1
1064875	06GAM05GS24	1064875007	WG	CS	SW6020	SW3010A	08/16/06	08/22/06	08/30/06	MXX18020	2
1064875	06GAM05GS24	1064875007	WG	CS	SW8260B	SW5030B	08/16/06	08/22/06	08/23/06	VXX15821	1
1064875	06GAM05GS25	1064875008	WG	CS	8270SIM	SW3510C	08/16/06	08/23/06	08/29/06	XXX17166	1
1064875	06GAM05GS25	1064875008	WG	CS	AK101	SW5030B	08/16/06	08/30/06	08/30/06	VXX15877	1
1064875	06GAM05GS25	1064875008	WG	CS	AK102	SW3520C	08/16/06	08/23/06	08/24/06	XXX17165	1
1064875	06GAM05GS25	1064875008	WG	CS	AK103	SW3520C	08/16/06	08/23/06	08/24/06	XXX17165A	1
1064875	06GAM05GS25	1064875008	WG	CS	SW6020	SW3010A	08/16/06	08/22/06	08/24/06	MXX18020	1
1064875	06GAM05GS25	1064875008	WG	CS	SW6020	SW3010A	08/16/06	08/22/06	08/30/06	MXX18020	2
1064875	06GAM05GS25	1064875008	WG	CS	SW8260B	SW5030B	08/16/06	08/22/06	08/23/06	VXX15821	1
1064875	06GAM05GSTB4-1	1064875010	WS	CS	AK101	SW5030B	08/17/06	08/30/06	08/30/06	VXX15877	1
1064875	06GAM05GSTB4-1	1064875010	WS	CS	SW8260B	SW5030B	08/17/06	08/22/06	08/23/06	VXX15821	1
1064875	06GAM05GSTB4-2	1064875011	WS	CS	AK101	SW5030B	08/17/06	08/30/06	08/30/06	VXX15877	1
1064875	06GAM05GSTB4-2	1064875011	WS	CS	SW8260B	SW5030B	08/17/06	08/22/06	08/23/06	VXX15821	1
1064875	06GAM05GSTB4-3	1064875012	WS	CS	AK101	SW5030B	08/17/06	08/31/06	08/31/06	VXX15887	1
1064875	06GAM05GSTB4-3	1064875012	WS	CS	SW8260B	SW5030B	08/17/06	08/22/06	08/23/06	VXX15821	1
1064875	06GAM12SL03Re	1064875009	SO	CS	A2540G	NONE	08/15/06	08/22/06	08/22/06	SPT6918	1
1064875	06GAM12SL03Re	1064875009	SO	CS	SW6020	SW3050B	08/15/06	08/21/06	08/22/06	MXX18013	1
		1064196001	SO	NC	SW6020	SW3050B	//	08/21/06	08/22/06	MXX18013	1
		1064669001	WS	NC	AK101	SW5030B	//	08/30/06	08/30/06	VXX15877	1
		1064802012	SO	NC	A2540G	NONE	//	08/22/06	08/22/06	SPT6918	1
		1064819055	WS	NC	SW6020	SW3010A	//	08/22/06	08/24/06	MXX18020	1
		1064852049	WS	NC	AK101	SW5030B	//	08/30/06	08/30/06	VXX15877	1
		724478	WS	NC	AK101	SW5030B	//	08/31/06	08/31/06	VXX15887	1
		721865	SQ	BS1	SW6020	SW3050B	//	08/21/06	08/22/06	MXX18013	1
		722201	WQ	CC	SW6020	NONE	//	08/22/06	08/22/06	MXX18013	1
		722203	WQ	CC	SW6020	NONE	//	08/22/06	08/22/06	MXX18013	1
		722205	WQ	CC	SW6020	NONE	//	08/22/06	08/22/06	MXX18013	1
		722207	WQ	CC	SW6020	NONE	//	08/22/06	08/22/06	MXX18013	1
		722197	WQ	IC	SW6020	NONE	//	08/22/06	08/22/06	MXX18013	1
		722198	WQ	IC1	SW6020	NONE	//	08/22/06	08/22/06	MXX18013	1
		721864	SQ	LB1	SW6020	SW3050B	//	08/21/06	08/22/06	MXX18013	1
		721866	SO	MS1	SW6020	SW3050B	//	08/21/06	08/22/06	MXX18013	1
		721868	SO	MS2	SW6020	SW3050B	//	08/21/06	08/22/06	MXX18013	1

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
		722199	WQ	RS1	SW6020	NONE	//	08/22/06	08/22/06	MXX18013	1
		722202	WQ	RS1	SW6020	NONE	//	08/22/06	08/22/06	MXX18013	1
		722204	WQ	RS1	SW6020	NONE	//	08/22/06	08/22/06	MXX18013	1
		722206	WQ	RS1	SW6020	NONE	//	08/22/06	08/22/06	MXX18013	1
		722208	WQ	RS1	SW6020	NONE	//	08/22/06	08/22/06	MXX18013	1
		721867	SO	SD1	SW6020	SW3050B	//	08/21/06	08/22/06	MXX18013	1
		722052	WQ	BS1	SW6020	SW3010A	//	08/22/06	08/24/06	MXX18020	1
		722879	WQ	CC	SW6020	NONE	//	08/24/06	08/24/06	MXX18020	1
		722881	WQ	CC	SW6020	NONE	//	08/24/06	08/24/06	MXX18020	1
		722883	WQ	CC	SW6020	NONE	//	08/24/06	08/24/06	MXX18020	1
		722885	WQ	CC	SW6020	NONE	//	08/24/06	08/24/06	MXX18020	1
		724226	WQ	CC	SW6020	NONE	//	08/30/06	08/30/06	MXX18020	1
		724228	WQ	CC	SW6020	NONE	//	08/30/06	08/30/06	MXX18020	1
		722864	WQ	IC	SW6020	NONE	//	08/24/06	08/24/06	MXX18020	1
		724216	WQ	IC	SW6020	NONE	//	08/30/06	08/30/06	MXX18020	1
		722865	WQ	IC1	SW6020	NONE	//	08/24/06	08/24/06	MXX18020	1
		724217	WQ	IC1	SW6020	NONE	//	08/30/06	08/30/06	MXX18020	1
		722051	WQ	LB1	SW6020	SW3010A	//	08/22/06	08/24/06	MXX18020	1
		722053	WS	MS1	SW6020	SW3010A	//	08/22/06	08/24/06	MXX18020	1
		722055	WS	MS2	SW6020	SW3010A	//	08/22/06	08/24/06	MXX18020	1
		722880	WQ	RS1	SW6020	NONE	//	08/24/06	08/24/06	MXX18020	1
		722882	WQ	RS1	SW6020	NONE	//	08/24/06	08/24/06	MXX18020	1
		722884	WQ	RS1	SW6020	NONE	//	08/24/06	08/24/06	MXX18020	1
		722886	WQ	RS1	SW6020	NONE	//	08/24/06	08/24/06	MXX18020	1
		724219	WQ	RS1	SW6020	NONE	//	08/30/06	08/30/06	MXX18020	1
		724227	WQ	RS1	SW6020	NONE	//	08/30/06	08/30/06	MXX18020	1
		724229	WQ	RS1	SW6020	NONE	//	08/30/06	08/30/06	MXX18020	1
		722054	WS	SD1	SW6020	SW3010A	//	08/22/06	08/24/06	MXX18020	1
		721621	SQ	LB1	A2540G	NONE	//	08/22/06	08/22/06	SPT6918	1
		721715	SO	LR1	A2540G	NONE	//	08/22/06	08/22/06	SPT6918	1
		721850	WQ	BD1	SW8260B	SW5030B	//	08/22/06	08/22/06	VXX15821	1
		721849	WQ	BS1	SW8260B	SW5030B	//	08/22/06	08/22/06	VXX15821	1
		721852	WQ	CC	SW8260B	NONE	//	08/22/06	08/22/06	VXX15821	1
		722098	WQ	CC	SW8260B	NONE	//	08/23/06	08/23/06	VXX15821	1
		721848	WQ	LB1	SW8260B	SW5030B	//	08/22/06	08/22/06	VXX15821	1
		721851	WQ	RS1	SW8260B	NONE	//	08/22/06	08/22/06	VXX15821	1
		722097	WQ	RS1	SW8260B	NONE	//	08/22/06	08/22/06	VXX15821	1

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctf	Run Sub
		723736	WQ	BD1	AK101	SW5030B	//	08/28/06	08/28/06	VXX15871	1
		723735	WQ	BS1	AK101	SW5030B	//	08/28/06	08/28/06	VXX15871	1
		723782	WQ	CC	AK101	NONE	//	08/28/06	08/28/06	VXX15871	1
		723784	WQ	CC	AK101	NONE	//	08/28/06	08/28/06	VXX15871	1
		723786	WQ	CC	AK101	NONE	//	08/29/06	08/29/06	VXX15871	1
		723734	WQ	LB1	AK101	SW5030B	//	08/28/06	08/28/06	VXX15871	1
		723780	WQ	RS1	AK101	NONE	//	08/28/06	08/28/06	VXX15871	1
		724099	WQ	BS1	AK101	SW5030B	//	08/30/06	08/30/06	VXX15877	1
		724117	WQ	CC	AK101	NONE	//	08/30/06	08/30/06	VXX15877	1
		724120	WQ	CC	AK101	NONE	//	08/30/06	08/30/06	VXX15877	1
		724122	WQ	CC	AK101	NONE	//	08/30/06	08/30/06	VXX15877	1
		724097	WQ	LB1	AK101	SW5030B	//	08/30/06	08/30/06	VXX15877	1
		1064852050	WS	MS1	AK101	SW5030B	//	08/30/06	08/30/06	VXX15877	1
		724102	WS	MS2	AK101	SW5030B	//	08/30/06	08/30/06	VXX15877	1
		724115	WQ	RS1	AK101	NONE	//	08/30/06	08/30/06	VXX15877	1
		1064852051	WS	SD1	AK101	SW5030B	//	08/30/06	08/30/06	VXX15877	1
		724103	WS	SD2	AK101	SW5030B	//	08/30/06	08/30/06	VXX15877	1
		724474	WQ	BS1	AK101	SW5030B	//	08/31/06	08/31/06	VXX15887	1
		724496	WQ	CC	AK101	NONE	//	08/31/06	08/31/06	VXX15887	1
		724512	WQ	CC	AK101	NONE	//	08/31/06	08/31/06	VXX15887	1
		724470	WQ	LB1	AK101	SW5030B	//	08/31/06	08/31/06	VXX15887	1
		724481	WS	MS1	AK101	SW5030B	//	08/31/06	08/31/06	VXX15887	1
		724495	WQ	RS1	AK101	NONE	//	08/31/06	08/31/06	VXX15887	1
		724482	WS	SD1	AK101	SW5030B	//	08/31/06	08/31/06	VXX15887	1
		721624	WQ	BD1	AK102	SW3520C	//	08/22/06	08/23/06	XXX17157	1
		721623	WQ	BS1	AK102	SW3520C	//	08/22/06	08/23/06	XXX17157	1
		722370	WQ	CC	AK102	NONE	//	08/23/06	08/23/06	XXX17157	1
		722373	WQ	CC	AK102	NONE	//	08/23/06	08/23/06	XXX17157	1
		722431	WQ	CC	AK102	NONE	//	08/23/06	08/23/06	XXX17157	1
		722433	WQ	CC	AK102	NONE	//	08/23/06	08/23/06	XXX17157	1
		721622	WQ	LB1	AK102	SW3520C	//	08/22/06	08/23/06	XXX17157	1
		722369	WQ	RS1	AK102	NONE	//	08/23/06	08/23/06	XXX17157	1
		721624	WQ	BD1	AK103	SW3520C	//	08/22/06	08/23/06	XXX17157A	1
		721623	WQ	BS1	AK103	SW3520C	//	08/22/06	08/23/06	XXX17157A	1
		722371	WQ	CC	AK103	NONE	//	08/23/06	08/23/06	XXX17157A	1
		722372	WQ	CC	AK103	NONE	//	08/23/06	08/23/06	XXX17157A	1
		722432	WQ	CC	AK103	NONE	//	08/23/06	08/23/06	XXX17157A	1

Report Summary

Labreport	Sampid	Labsampid	Mtrx	QC	Anmcode	Exmcode	Logdate	Extdate	Anadate	Lablotctl	Run Sub
		722434	WQ	CC	AK103	NONE	//	08/23/06	08/23/06	XXX17157A	1
		721622	WQ	LB1	AK103	SW3520C	//	08/22/06	08/23/06	XXX17157A	1
		722369	WQ	RS1	AK103	NONE	//	08/23/06	08/23/06	XXX17157A	1
		722002	WQ	BD1	AK102	SW3520C	//	08/23/06	08/24/06	XXX17165	1
		722001	WQ	BS1	AK102	SW3520C	//	08/23/06	08/24/06	XXX17165	1
		722619	WQ	CC	AK102	NONE	//	08/24/06	08/24/06	XXX17165	1
		722621	WQ	CC	AK102	NONE	//	08/24/06	08/24/06	XXX17165	1
		722640	WQ	CC	AK102	NONE	//	08/24/06	08/24/06	XXX17165	1
		722960	WQ	CC	AK102	NONE	//	08/24/06	08/24/06	XXX17165	1
		722000	WQ	LB1	AK102	SW3520C	//	08/23/06	08/24/06	XXX17165	1
		722618	WQ	RS1	AK102	NONE	//	08/24/06	08/24/06	XXX17165	1
		722002	WQ	BD1	AK103	SW3520C	//	08/23/06	08/24/06	XXX17165A	1
		722001	WQ	BS1	AK103	SW3520C	//	08/23/06	08/24/06	XXX17165A	1
		722620	WQ	CC	AK103	NONE	//	08/24/06	08/24/06	XXX17165A	1
		722622	WQ	CC	AK103	NONE	//	08/24/06	08/24/06	XXX17165A	1
		722641	WQ	CC	AK103	NONE	//	08/24/06	08/24/06	XXX17165A	1
		722961	WQ	CC	AK103	NONE	//	08/24/06	08/24/06	XXX17165A	1
		722000	WQ	LB1	AK103	SW3520C	//	08/23/06	08/24/06	XXX17165A	1
		722618	WQ	RS1	AK103	NONE	//	08/24/06	08/24/06	XXX17165A	1
		722011	WQ	BD1	8270SIM	SW3510C	//	08/23/06	08/29/06	XXX17166	1
		722010	WQ	BS1	8270SIM	SW3510C	//	08/23/06	08/29/06	XXX17166	1
		724003	WQ	CC	8270SIM	NONE	//	08/29/06	08/29/06	XXX17166	1
		724126	WQ	CC	8270SIM	NONE	//	08/30/06	08/30/06	XXX17166	1
		722009	WQ	LB1	8270SIM	SW3510C	//	08/23/06	08/30/06	XXX17166	1
		724002	WQ	RS1	8270SIM	NONE	//	08/29/06	08/29/06	XXX17166	1
		724125	WQ	RS1	8270SIM	NONE	//	08/30/06	08/30/06	XXX17166	1

EDFSAMP: Error Summary Log

09/29/06

Error type	Logcode	Projname	Npdlwo	Sampid	Matrix
There are no errors in this data file					

EDFTEST: Error Summary Log

09/29/06

Error type	Labsampid	Qcocode	Anmcode	Exmcode	Anadate	Run number
Warning: Duplicate QC code within the batch	721851	RS1	SW8260B	NONE	08/22/06	1
Warning: Duplicate QC code within the batch	721852	CC	SW8260B	NONE	08/22/06	1
Warning: Duplicate QC code within the batch	722097	RS1	SW8260B	NONE	08/22/06	1
Warning: Duplicate QC code within the batch	722098	CC	SW8260B	NONE	08/23/06	1
Warning: Duplicate QC code within the batch	722199	RS1	SW6020	NONE	08/22/06	1
Warning: Duplicate QC code within the batch	722201	CC	SW6020	NONE	08/22/06	1
Warning: Duplicate QC code within the batch	722202	RS1	SW6020	NONE	08/22/06	1
Warning: Duplicate QC code within the batch	722203	CC	SW6020	NONE	08/22/06	1
Warning: Duplicate QC code within the batch	722204	RS1	SW6020	NONE	08/22/06	1
Warning: Duplicate QC code within the batch	722205	CC	SW6020	NONE	08/22/06	1
Warning: Duplicate QC code within the batch	722206	RS1	SW6020	NONE	08/22/06	1
Warning: Duplicate QC code within the batch	722207	CC	SW6020	NONE	08/22/06	1
Warning: Duplicate QC code within the batch	722208	RS1	SW6020	NONE	08/22/06	1
Warning: Duplicate QC code within the batch	722370	CC	AK102	NONE	08/23/06	1
Warning: Duplicate QC code within the batch	722371	CC	AK103	NONE	08/23/06	1
Warning: Duplicate QC code within the batch	722372	CC	AK103	NONE	08/23/06	1
Warning: Duplicate QC code within the batch	722373	CC	AK102	NONE	08/23/06	1
Warning: Duplicate QC code within the batch	722431	CC	AK102	NONE	08/23/06	1
Warning: Duplicate QC code within the batch	722432	CC	AK103	NONE	08/23/06	1
Warning: Duplicate QC code within the batch	722433	CC	AK102	NONE	08/23/06	1
Warning: Duplicate QC code within the batch	722434	CC	AK103	NONE	08/23/06	1
Warning: Duplicate QC code within the batch	722619	CC	AK102	NONE	08/24/06	1
Warning: Duplicate QC code within the batch	722620	CC	AK103	NONE	08/24/06	1
Warning: Duplicate QC code within the batch	722621	CC	AK102	NONE	08/24/06	1
Warning: Duplicate QC code within the batch	722622	CC	AK103	NONE	08/24/06	1

Error type	Labsampid	Qcocode	Anmcode	Exmcode	Anadate	Run number
Warning: Dulicate QC code within the batch	722640	CC	AK102	NONE	08/24/06	1
Warning: Dulicate QC code within the batch	722641	CC	AK103	NONE	08/24/06	1
Warning: Dulicate QC code within the batch	722864	IC	SW6020	NONE	08/24/06	1
Warning: Dulicate QC code within the batch	722865	IC1	SW6020	NONE	08/24/06	1
Warning: Dulicate QC code within the batch	722879	CC	SW6020	NONE	08/24/06	1
Warning: Dulicate QC code within the batch	722880	RS1	SW6020	NONE	08/24/06	1
Warning: Dulicate QC code within the batch	722881	CC	SW6020	NONE	08/24/06	1
Warning: Dulicate QC code within the batch	722882	RS1	SW6020	NONE	08/24/06	1
Warning: Dulicate QC code within the batch	722883	CC	SW6020	NONE	08/24/06	1
Warning: Dulicate QC code within the batch	722884	RS1	SW6020	NONE	08/24/06	1
Warning: Dulicate QC code within the batch	722885	CC	SW6020	NONE	08/24/06	1
Warning: Dulicate QC code within the batch	722886	RS1	SW6020	NONE	08/24/06	1
Warning: Dulicate QC code within the batch	722960	CC	AK102	NONE	08/24/06	1
Warning: Dulicate QC code within the batch	722961	CC	AK103	NONE	08/24/06	1
Warning: Dulicate QC code within the batch	723782	CC	AK101	NONE	08/28/06	1
Warning: Dulicate QC code within the batch	723784	CC	AK101	NONE	08/28/06	1
Warning: Dulicate QC code within the batch	723786	CC	AK101	NONE	08/29/06	1
Warning: Dulicate QC code within the batch	724002	RS1	8270SIM	NONE	08/29/06	1
Warning: Dulicate QC code within the batch	724003	CC	8270SIM	NONE	08/29/06	1
Warning: Dulicate QC code within the batch	724117	CC	AK101	NONE	08/30/06	1
Warning: Dulicate QC code within the batch	724120	CC	AK101	NONE	08/30/06	1
Warning: Dulicate QC code within the batch	724122	CC	AK101	NONE	08/30/06	1
Warning: Dulicate QC code within the batch	724125	RS1	8270SIM	NONE	08/30/06	1
Warning: Dulicate QC code within the batch	724126	CC	8270SIM	NONE	08/30/06	1
Warning: Dulicate QC code within the batch	724216	IC	SW6020	NONE	08/30/06	1
Warning: Dulicate QC code within the batch	724217	IC1	SW6020	NONE	08/30/06	1
Warning: Dulicate QC code within the batch	724219	RS1	SW6020	NONE	08/30/06	1
Warning: Dulicate QC code within the batch	724226	CC	SW6020	NONE	08/30/06	1

Error type	Labsampid	Qccode	Anmcode	Exmcode	Anadate	Run number
Warning: Dulicate QC code within the batch	724227	RS1	SW6020	NONE	08/30/06	1
Warning: Dulicate QC code within the batch	724228	CC	SW6020	NONE	08/30/06	1
Warning: Dulicate QC code within the batch	724229	RS1	SW6020	NONE	08/30/06	1
Warning: Dulicate QC code within the batch	724496	CC	AK101	NONE	08/31/06	1
Warning: Dulicate QC code within the batch	724512	CC	AK101	NONE	08/31/06	1
Warning: Dulicate QC code within the batch	1064669001	NC	AK101	SW5030B	08/30/06	1
Warning: Dulicate QC code within the batch	1064852049	NC	AK101	SW5030B	08/30/06	1

EDFRES: Error Summary Log

09/29/06

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	1064875001	CS	WG	AK102	PR	08/23/06	1	ANDROSTANE5A
Warning: extra parameter	1064875001	CS	WG	AK103	PR	08/23/06	1	C30ND62
Warning: extra parameter	1064875001	CS	WG	SW6020	PR	08/24/06	1	V
Warning: extra parameter	1064875001	CS	WG	SW8260B	PR	08/23/06	1	XYLENES1314
Warning: extra parameter	1064875002	CS	WG	SW6020	PR	08/24/06	1	V
Warning: extra parameter	1064875002	CS	WG	SW8260B	PR	08/23/06	1	XYLENES1314
Warning: extra parameter	1064875003	CS	WG	AK102	PR	08/24/06	1	ANDROSTANE5A
Warning: extra parameter	1064875003	CS	WG	AK103	PR	08/24/06	1	C30ND62
Warning: extra parameter	1064875003	CS	WG	SW6020	PR	08/24/06	1	V
Warning: extra parameter	1064875003	CS	WG	SW8260B	PR	08/23/06	1	XYLENES1314
Warning: extra parameter	1064875004	CS	WG	AK102	PR	08/24/06	1	ANDROSTANE5A
Warning: extra parameter	1064875004	CS	WG	AK103	PR	08/24/06	1	C30ND62
Warning: extra parameter	1064875004	CS	WG	SW6020	PR	08/24/06	1	V
Warning: extra parameter	1064875004	CS	WG	SW8260B	PR	08/23/06	1	XYLENES1314
Warning: extra parameter	1064875005	CS	WG	AK102	PR	08/24/06	1	ANDROSTANE5A
Warning: extra parameter	1064875005	CS	WG	AK103	PR	08/24/06	1	C30ND62
Warning: extra parameter	1064875005	CS	WG	SW6020	PR	08/24/06	1	V
Warning: extra parameter	1064875005	CS	WG	SW8260B	PR	08/23/06	1	XYLENES1314
Warning: extra parameter	1064875006	CS	WG	AK102	PR	08/24/06	1	ANDROSTANE5A
Warning: extra parameter	1064875006	CS	WG	AK103	PR	08/24/06	1	C30ND62
Warning: extra parameter	1064875006	CS	WG	SW6020	PR	08/24/06	1	V
Warning: extra parameter	1064875006	CS	WG	SW8260B	PR	08/23/06	1	XYLENES1314
Warning: extra parameter	1064875007	CS	WG	AK102	PR	08/24/06	1	ANDROSTANE5A
Warning: extra parameter	1064875007	CS	WG	AK103	PR	08/24/06	1	C30ND62
Warning: extra parameter	1064875007	CS	WG	SW6020	PR	08/24/06	1	V

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	1064875007	CS	WG	SW8260B	PR	08/23/06	1	XYLENES1314
Warning: extra parameter	1064875008	CS	WG	AK102	PR	08/24/06	1	ANDROSTANE5A
Warning: extra parameter	1064875008	CS	WG	AK103	PR	08/24/06	1	C30ND62
Warning: extra parameter	1064875008	CS	WG	SW6020	PR	08/24/06	1	V
Warning: extra parameter	1064875008	CS	WG	SW8260B	PR	08/23/06	1	XYLENES1314
Warning: extra parameter	721622	LB1	WQ	AK102	PR	08/23/06	1	ANDROSTANE5A
Warning: extra parameter	721622	LB1	WQ	AK103	PR	08/23/06	1	C30ND62
Warning: extra parameter	721623	BS1	WQ	AK102	PR	08/23/06	1	ANDROSTANE5A
Warning: extra parameter	721623	BS1	WQ	AK103	PR	08/23/06	1	C30ND62
Warning: extra parameter	721624	BD1	WQ	AK102	PR	08/23/06	1	ANDROSTANE5A
Warning: extra parameter	721624	BD1	WQ	AK103	PR	08/23/06	1	C30ND62
Warning: extra parameter	721848	LB1	WQ	SW8260B	PR	08/22/06	1	XYLENES1314
Warning: extra parameter	721849	BS1	WQ	SW8260B	PR	08/22/06	1	XYLENES1314
Warning: extra parameter	721850	BD1	WQ	SW8260B	PR	08/22/06	1	XYLENES1314
Warning: extra parameter	721851	RS1	WQ	SW8260B	PR	08/22/06	1	XYLENES1314
Warning: extra parameter	721852	CC	WQ	SW8260B	PR	08/22/06	1	XYLENES1314
Warning: extra parameter	722000	LB1	WQ	AK102	PR	08/24/06	1	ANDROSTANE5A
Warning: extra parameter	722000	LB1	WQ	AK103	PR	08/24/06	1	C30ND62
Warning: extra parameter	722001	BS1	WQ	AK102	PR	08/24/06	1	ANDROSTANE5A
Warning: extra parameter	722001	BS1	WQ	AK103	PR	08/24/06	1	C30ND62
Warning: extra parameter	722002	BD1	WQ	AK102	PR	08/24/06	1	ANDROSTANE5A
Warning: extra parameter	722002	BD1	WQ	AK103	PR	08/24/06	1	C30ND62
Warning: extra parameter	722051	LB1	WQ	SW6020	PR	08/24/06	1	V
Warning: extra parameter	722052	BS1	WQ	SW6020	PR	08/24/06	1	V
Warning: extra parameter	722097	RS1	WQ	SW8260B	PR	08/22/06	1	XYLENES1314
Warning: extra parameter	722098	CC	WQ	SW8260B	PR	08/23/06	1	XYLENES1314
Warning: extra parameter	722864	IC	WQ	SW6020	PR	08/24/06	1	V
Warning: extra parameter	722865	IC1	WQ	SW6020	PR	08/24/06	1	V

Error type	Labsampid	Qccode	Matrix	Anmcode	Pvccode	Anadate	Run number	Parlabel
Warning: extra parameter	722879	CC	WQ	SW6020	PR	08/24/06	1	V
Warning: extra parameter	722880	RS1	WQ	SW6020	PR	08/24/06	1	V
Warning: extra parameter	722881	CC	WQ	SW6020	PR	08/24/06	1	V
Warning: extra parameter	722882	RS1	WQ	SW6020	PR	08/24/06	1	V
Warning: extra parameter	722883	CC	WQ	SW6020	PR	08/24/06	1	V
Warning: extra parameter	722884	RS1	WQ	SW6020	PR	08/24/06	1	V
Warning: extra parameter	722885	CC	WQ	SW6020	PR	08/24/06	1	V
Warning: extra parameter	722886	RS1	WQ	SW6020	PR	08/24/06	1	V
Warning: extra parameter	1064875010	CS	WS	SW8260B	PR	08/23/06	1	XYLENES1314
Warning: extra parameter	1064875011	CS	WS	SW8260B	PR	08/23/06	1	XYLENES1314
Warning: extra parameter	1064875012	CS	WS	SW8260B	PR	08/23/06	1	XYLENES1314

EDFQC: Error Summary Log

09/29/06

Error type	Lablotctf	Anmcode	Parlabel	Qccode	Labqcid
There are no errors in this data files					

EDFCL: Error Summary Log

09/29/06

Error type	Cirevdate	Anmcode	Exmcode	Parlabel	Cicode
There are no errors in this data file	//				



STL

ANALYTICAL REPORT

Job Number: 580-3377-1

Job Description: Gambell FUDS

For:
Bristol Env & Eng Services Corporation
111 W. 16th Ave.
Suite 301
Anchorage, AK 99501

Attention: Ms. Michelle T. Turner

A handwritten signature in black ink, appearing to read "Terri L. Torres".

Terri L Torres
Project Manager II
ttorres@stl-inc.com
09/18/2006

Project Manager: Terri L Torres

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Severn Trent Laboratories, Inc.

STL Seattle 5755 8th Street East, Tacoma, WA 98424
Tel (253) 922-2310 Fax (253) 922-5047 www.stl-inc.com



Case Narrative for job: 580-3377

Client: Bristol Env & Eng Services Corporation
Date: 09/15/2006

VOLATILE ORGANICS

Samples 580-3377-1 and 580-3377-2 were analyzed for BTEX in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 08/31/2006, which was one day past the required method holding time.

There were no manual integrations performed on the field or quality control samples in this project.

The recovery of the surrogate Trifluorotoluene in sample 580-3377-1 exceeded quality control limits. All other surrogates were within control limits. No further action was taken on this outlier.

Toluene was detected in method blank MB 580-10651/1 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". The associated sample results have been flagged "B".

No other difficulties were encountered during the volatile organics analyses.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANICS

Sample 580-3377-1 was analyzed for semivolatile organics in accordance with EPA SW-846 Method 8270C. The sample was prepared and analyzed on 08/25/2006, which was two days past the method required holding time for preparation. The sample was analyzed within the method required holding time.

There were no manual integrations performed on the field or quality control samples in this project.

The recoveries of Acenaphthylene and Benzo[a]pyrene in the LCS and the LCSD associated with analytical batch 580-10210 exceeded the QC acceptance limits. The recoveries for these compounds in both the LCS and LCSD were high, however the recoveries in the LCSD were within the DoD marginal exceedance limits. These compounds were not detected in the associated sample. No further action was taken on these outliers.

The recoveries of several analytes in the LCS and the LCSD associated with analytical batch 580-10210 exceeded the QC acceptance limits. The recoveries for these compounds in both the LCS and LCSD were high, however the recoveries were within the DoD marginal exceedance limits. No further action was taken on these outliers.

No other difficulties were encountered during the semivolatile organics analysis.

All other quality control parameters were within the acceptance limits.

GASOLINE RANGE ORGANICS

Samples 580-3377-1 and 580-3377-2 were analyzed for gasoline range organics in accordance with State of Alaska Method AK101. The samples were analyzed on 08/31/2006, which was one day past the required method holding time.

There were no manual integrations performed on the field or quality control samples in this project.

No other difficulties were encountered during the gasoline range organics analyses.

All quality control parameters were within the acceptance limits.

DIESEL AND RESIDUAL RANGE ORGANICS

Sample 580-3377-1 was analyzed for diesel and residual range organics in accordance with State of Alaska Method AK102 and AK103. The sample was prepared and analyzed on 08/25/2006, which was two days past the method required holding time for preparation. The sample was analyzed within the method required holding time.

Following DoD QSM guidelines, manual integrations were performed only when necessary and are in compliance with the laboratory's standard operating procedure, Acceptable Manual Integration Practices, SOP No.: S-Q-004, including Addendum 1. The reason(s) for manual integration have been documented on the affected chromatogram(s), which is/are provided in the raw data package. The raw data also includes the original chromatogram(s) prior to any manual integration being performed. Manual integrations were performed on the following samples analyzed on May 2, 2006; IC 49920 5000 AK. Manual integrations were performed on the following samples analyzed on August 25, 2006; 580-3377-H-1-A.

No other difficulties were encountered during the DRO and RRO analysis.

All quality control parameters were within the acceptance limits.

TOTAL RECOVERABLE METALS

Sample 580-3377-1 was analyzed for total recoverable metals in accordance with EPA SW-846 Method 6020. The samples were prepared and analyzed on 08/29/2006, which was within the method required holding times.

Sample 580-3377-1 required dilution prior to analysis.

Barium, Chromium, Lead, Nickel and Vanadium were detected in method blank MB 580-10401/8-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". The associated sample results have been flagged "B".

No other difficulties were encountered during the total recoverable metals analysis.

All other quality control parameters were within the acceptance limits.

METHOD SUMMARY

Client: Bristol Env & Eng Services Corporation

Job Number: 580-3377-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	STL SEA	SW846 8260B	
Purge-and-Trap	STL SEA		SW846 5030B
Semivolatile Organic Compounds by GC/MS (Selective Ion Monitoring)	STL SEA	SW846 8270C	
Separatory Funnel Liquid-Liquid Extraction	STL SEA		SW846 3510C
Gasoline Range Organics	STL SEA	ADEC AK101	
Purge-and-Trap	STL SEA		SW846 5030B
Nonhalogenated Organics by FID (Diesel Range Organics & Residual Range Organics)	STL SEA	ADEC AK102 & 103	
Separatory Funnel Liquid-Liquid Extraction	STL SEA		SW846 3510C
Inductively Coupled Plasma - Mass Spectrometry	STL SEA	SW846 6020	
Acid Digestion of Waters for Total Recoverable or	STL SEA		SW846 3005A

LAB REFERENCES:

STL SEA = STL Seattle

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986
And Its Updates.

SAMPLE SUMMARY

Client: Bristol Env & Eng Services Corporation

Job Number: 580-3377-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
580-3377-1	06GAM05GS20	Water	08/16/2006 1330	08/23/2006 0900
580-3377-2	06GAM05GSTB5	Water	08/16/2006 1330	08/23/2006 0900

Analytical Data

Client: Bristol Env & Eng Services Corporation

Job Number: 580-3377-1

Client Sample ID: 06GAM05GS20

Lab Sample ID: 580-3377-1
 Client Matrix: Water

Date Sampled: 08/16/2006 1330
 Date Received: 08/23/2006 0900

8260B Volatile Organic Compounds by GC/MS

Method: 8260B	Analysis Batch: 580-10651	Instrument ID: SEA003
Preparation: 5030B		Lab File ID: MS166920.D
Dilution: 1.0		Initial Weight/Volume: 5 mL
Date Analyzed: 08/31/2006 2253		Final Weight/Volume: 5 mL
Date Prepared: 08/31/2006 2253		

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	ND	H	0.10	1.0
Toluene	0.10	J H B	0.066	1.0
Ethylbenzene	ND	H	0.085	1.0
m-Xylene & p-Xylene	ND	H	0.17	2.0
o-Xylene	ND	H	0.068	1.0
Surrogate	%Rec		Acceptance Limits	
Fluorobenzene (Surr)	104		80 - 120	
Toluene-d8 (Surr)	105		80 - 120	
Ethylbenzene-d10	105		80 - 120	
4-Bromofluorobenzene (Surr)	103		80 - 120	
Trifluorotoluene (Surr)	122	X	80 - 120	

Analytical Data

Client: Bristol Env & Eng Services Corporation

Job Number: 580-3377-1

Client Sample ID: 06GAM05GSTB5

Lab Sample ID: 580-3377-2
Client Matrix: Water

Date Sampled: 08/16/2006 1330
Date Received: 08/23/2006 0900

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	580-10651	Instrument ID:	SEA003
Preparation:	5030B			Lab File ID:	MS166919.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	08/31/2006 2231			Final Weight/Volume:	5 mL
Date Prepared:	08/31/2006 2231				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	ND	H	0.10	1.0
Toluene	0.089	J H B	0.066	1.0
Ethylbenzene	ND	H	0.085	1.0
m-Xylene & p-Xylene	ND	H	0.17	2.0
o-Xylene	ND	H	0.068	1.0
Surrogate	%Rec		Acceptance Limits	
Fluorobenzene (Surr)	104		80 - 120	
Toluene-d8 (Surr)	104		80 - 120	
Ethylbenzene-d10	104		80 - 120	
4-Bromofluorobenzene (Surr)	102		80 - 120	
Trifluorotoluene (Surr)	117		80 - 120	

Analytical Data

Client: Bristol Env & Eng Services Corporation

Job Number: 580-3377-1

Client Sample ID: 06GAM05GS20

Lab Sample ID: 580-3377-1
Client Matrix: Water

Date Sampled: 08/16/2006 1330
Date Received: 08/23/2006 0900

8270C Semivolatile Organic Compounds by GC/MS (Selective Ion Monitoring)

Method: 8270C	Analysis Batch: 580-10237	Instrument ID: SEA023
Preparation: 3510C	Prep Batch: 580-10210	Lab File ID: HP02201.D
Dilution: 1.0		Initial Weight/Volume: 975 mL
Date Analyzed: 08/25/2006 1321		Final Weight/Volume: 10 mL
Date Prepared: 08/25/2006 0814		Injection Volume:

Analyte	Result (ug/L)	Qualifier	MDL	RL
Naphthalene	0.0070	J *	0.0062	0.10
2-Methylnaphthalene	ND	*	0.0092	0.13
1-Methylnaphthalene	ND		0.033	0.10
Acenaphthylene	ND	*	0.0041	0.10
Acenaphthene	ND	*	0.0031	0.10
Fluorene	ND	*	0.0082	0.10
Phenanthrene	ND		0.0031	0.10
Anthracene	ND	*	0.0082	0.10
Fluoranthene	ND		0.0092	0.10
Pyrene	ND		0.013	0.10
Benzo[a]anthracene	ND	*	0.0092	0.10
Chrysene	ND	*	0.0092	0.10
Benzo[fluoranthene]	ND		0.032	0.21
Benzo[a]pyrene	ND	*	0.062	0.21
Indeno[1,2,3-cd]pyrene	ND		0.015	0.10
Dibenz(a,h)anthracene	ND		0.012	0.10
Benzo[g,h,i]perylene	ND		0.018	0.10
Surrogate	%Rec		Acceptance Limits	
Nitrobenzene-d5	108		34 - 146	
2-Fluorobiphenyl	94		35 - 143	
Terphenyl-d14	97		35 - 166	

Analytical Data

Client: Bristol Env & Eng Services Corporation

Job Number: 580-3377-1

Client Sample ID: 06GAM05GS20

Lab Sample ID: 580-3377-1
Client Matrix: Water

Date Sampled: 08/16/2006 1330
Date Received: 08/23/2006 0900

AK101 Gasoline Range Organics

Method:	AK101	Analysis Batch: 580-10655	Instrument ID:	SEA003
Preparation:	5030B		Lab File ID:	CS166920.D
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	08/31/2006 2253		Final Weight/Volume:	5 mL
Date Prepared:	08/31/2006 2253		Injection Volume:	
			Column ID:	PRIMARY

Analyte	Result (mg/L)	Qualifier	MDL	RL
Gasoline Range Organics (GRO)-C6-C10	ND	H	0.010	0.050
Surrogate	%Rec		Acceptance Limits	
Trifluorotoluene (Surr)	103		60 - 120	
4-Bromofluorobenzene (Surr)	101		60 - 120	
Ethylbenzene-d10	109		60 - 120	
Fluorobenzene (Surr)	101		60 - 120	
Toluene-d8 (Surr)	111		60 - 120	

Analytical Data

Client: Bristol Env & Eng Services Corporation

Job Number: 580-3377-1

Client Sample ID: 06GAM05GSTB5

Lab Sample ID: 580-3377-2
Client Matrix: Water

Date Sampled: 08/16/2006 1330
Date Received: 08/23/2006 0900

AK101 Gasoline Range Organics

Method:	AK101	Analysis Batch: 580-10655	Instrument ID:	SEA003
Preparation:	5030B		Lab File ID:	CS166919.D
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	08/31/2006 2231		Final Weight/Volume:	5 mL
Date Prepared:	08/31/2006 2231		Injection Volume:	
			Column ID:	PRIMARY

Analyte	Result (mg/L)	Qualifier	MDL	RL
Gasoline Range Organics (GRO)-C6-C10	ND	H	0.010	0.050
Surrogate	%Rec		Acceptance Limits	
Trifluorotoluene (Surr)	100		60 - 120	
4-Bromofluorobenzene (Surr)	101		60 - 120	
Ethylbenzene-d10	109		60 - 120	
Fluorobenzene (Surr)	101		60 - 120	
Toluene-d8 (Surr)	111		60 - 120	

Analytical Data

Client: Bristol Env & Eng Services Corporation

Job Number: 580-3377-1

Client Sample ID: 06GAM05GS20

Lab Sample ID: 580-3377-1

Date Sampled: 08/16/2006 1330

Client Matrix: Water

Date Received: 08/23/2006 0900

AK102 & 103 Nonhalogenated Organics by FID (Diesel Range Organics & Residual Range Organics)

Method: AK102 & 103

Analysis Batch: 580-10239

Instrument ID: SEA015

Preparation: 3510C

Prep Batch: 580-10208

Lab File ID: PL13664.D

Dilution: 1.0

Initial Weight/Volume: 970 mL

Date Analyzed: 08/25/2006 1253

Final Weight/Volume: 1 mL

Date Prepared: 08/25/2006 0807

Injection Volume:

Column ID: PRIMARY

Analyte	Result (mg/L)	Qualifier	MDL	RL
DRO (nC10-<nC25)	0.71		0.023	0.10
RRO (nC25-nC36)	0.073	J	0.027	0.10
Surrogate	%Rec		Acceptance Limits	
o-Terphenyl	85		60 - 120	
n-Triacontane-d62	99	M	60 - 120	

Analytical Data

Client: Bristol Env & Eng Services Corporation

Job Number: 580-3377-1

Client Sample ID: 06GAM05GS20

Lab Sample ID: 580-3377-1
Client Matrix: Water

Date Sampled: 08/16/2006 1330
Date Received: 08/23/2006 0900

6020 Inductively Coupled Plasma - Mass Spectrometry-Total Recoverable

Method:	6020	Analysis Batch: 580-10422	Instrument ID:	SEA026
Preparation:	3005A	Prep Batch: 580-10401	Lab File ID:	N/A
Dilution:	5.0		Initial Weight/Volume:	50 mL
Date Analyzed:	08/29/2006 1917		Final Weight/Volume:	50 mL
Date Prepared:	08/29/2006 1147			

Analyte	Result (mg/L)	Qualifier	MDL	RL
Arsenic	0.00093	J	0.00037	0.0020
Barium	0.00054	J B	0.000091	0.0020
Cadmium	ND		0.000037	0.0020
Chromium	0.0035	B	0.00014	0.0020
Lead	0.00012	J B	0.000016	0.0020
Nickel	0.0015	J B	0.000052	0.0020
Vanadium	ND		0.00034	0.0020

Quality Control Results

Client: Bristol Env & Eng Services Corporation

Job Number: 580-3377-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:580-10651					
LCS 580-10651/2	Lab Control Spike	T	Water	8260B	
LCSD 580-10651/3	Lab Control Spike Duplicate	T	Water	8260B	
MB 580-10651/1	Method Blank	T	Water	8260B	
580-3377-1	06GAM05GS20	T	Water	8260B	
580-3377-2	06GAM05GSTB5	T	Water	8260B	

Report Basis

T = Total

GC/MS Semi VOA

Prep Batch: 580-10210					
LCS 580-10210/2-A	Lab Control Spike	T	Water	3510C	
LCSD 580-10210/3-A	Lab Control Spike Duplicate	T	Water	3510C	
MB 580-10210/1-A	Method Blank	T	Water	3510C	
580-3377-1	06GAM05GS20	T	Water	3510C	
Analysis Batch:580-10237					
LCS 580-10210/2-A	Lab Control Spike	T	Water	8270C	580-10210
LCSD 580-10210/3-A	Lab Control Spike Duplicate	T	Water	8270C	580-10210
MB 580-10210/1-A	Method Blank	T	Water	8270C	580-10210
580-3377-1	06GAM05GS20	T	Water	8270C	580-10210

Report Basis

T = Total

GC VOA

Analysis Batch:580-10655					
LCS 580-10655/2	Lab Control Spike	T	Water	AK101	
LCSD 580-10655/3	Lab Control Spike Duplicate	T	Water	AK101	
MB 580-10655/1	Method Blank	T	Water	AK101	
580-3377-1	06GAM05GS20	T	Water	AK101	
580-3377-2	06GAM05GSTB5	T	Water	AK101	

Report Basis

T = Total

STL Seattle

Quality Control Results

Client: Bristol Env & Eng Services Corporation

Job Number: 580-3377-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 580-10208					
LCS 580-10208/2-A	Lab Control Spike	T	Water	3510C	
LCSD 580-10208/3-A	Lab Control Spike Duplicate	T	Water	3510C	
MB 580-10208/1-A	Method Blank	T	Water	3510C	
580-3377-1	06GAM05GS20	T	Water	3510C	
Analysis Batch:580-10239					
LCS 580-10208/2-A	Lab Control Spike	T	Water	AK102 & 103	580-10208
LCSD 580-10208/3-A	Lab Control Spike Duplicate	T	Water	AK102 & 103	580-10208
MB 580-10208/1-A	Method Blank	T	Water	AK102 & 103	580-10208
580-3377-1	06GAM05GS20	T	Water	AK102 & 103	580-10208

Report Basis

T = Total

Metals

Prep Batch: 580-10401					
LCS 580-10401/9-A	Lab Control Spike	R	Water	3005A	
LCSD 580-10401/10-A	Lab Control Spike Duplicate	R	Water	3005A	
LCSSRM 580-10401/11-A	LCS-Standard Reference Material	R	Water	3005A	
MB 580-10401/8-A	Method Blank	R	Water	3005A	
580-3377-1	06GAM05GS20	R	Water	3005A	
580-3377-1DU	Duplicate	R	Water	3005A	
580-3377-1MS	Matrix Spike	R	Water	3005A	
580-3377-1MSD	Matrix Spike Duplicate	R	Water	3005A	
Analysis Batch:580-10422					
LCS 580-10401/9-A	Lab Control Spike	R	Water	6020	580-10401
LCSD 580-10401/10-A	Lab Control Spike Duplicate	R	Water	6020	580-10401
LCSSRM 580-10401/11-A	LCS-Standard Reference Material	R	Water	6020	580-10401
MB 580-10401/8-A	Method Blank	R	Water	6020	580-10401
580-3377-1	06GAM05GS20	R	Water	6020	580-10401
580-3377-1DU	Duplicate	R	Water	6020	580-10401
580-3377-1MS	Matrix Spike	R	Water	6020	580-10401
580-3377-1MSD	Matrix Spike Duplicate	R	Water	6020	580-10401

Report Basis

R = Total Recoverable

STL Seattle

Quality Control Results

Client: Bristol Env & Eng Services Corporation

Job Number: 580-3377-1

Method Blank - Batch: 580-10651

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 580-10651/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/31/2006 1846
Date Prepared: 08/31/2006 1846

Analysis Batch: 580-10651
Prep Batch: N/A
Units: ug/L

Instrument ID: SEA003
Lab File ID: MS166909.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	ND		0.10	1.0
Toluene	0.077	J	0.066	1.0
Ethylbenzene	ND		0.085	1.0
m-Xylene & p-Xylene	ND		0.17	2.0
o-Xylene	ND		0.068	1.0

Surrogate	% Rec	Acceptance Limits
Fluorobenzene (Surr)	104	80 - 120
Toluene-d8 (Surr)	104	80 - 120
Ethylbenzene-d10	104	80 - 120
4-Bromofluorobenzene (Surr)	103	80 - 120
Trifluorotoluene (Surr)	107	80 - 120

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Bristol Env & Eng Services Corporation

Job Number: 580-3377-1

**Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 580-10651**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 580-10651/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/31/2006 1909
Date Prepared: 08/31/2006 1909

Analysis Batch: 580-10651
Prep Batch: N/A
Units: ug/L

Instrument ID: SEA003
Lab File ID: MS166910.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 580-10651/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/31/2006 1931
Date Prepared: 08/31/2006 1931

Analysis Batch: 580-10651
Prep Batch: N/A
Units: ug/L

Instrument ID: SEA003
Lab File ID: MS166911.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	87	84	80 - 120	3	12		
Toluene	93	89	75 - 120	4	12		
Ethylbenzene	94	92	75 - 125	2	20		
m-Xylene & p-Xylene	98	95	75 - 130	3	20		
o-Xylene	95	94	80 - 120	2	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Fluorobenzene (Surr)	104		105		80 - 120		
Toluene-d8 (Surr)	104		104		80 - 120		
Ethylbenzene-d10	103		104		80 - 120		
4-Bromofluorobenzene (Surr)	103		104		80 - 120		
Trifluorotoluene (Surr)	108		104		80 - 120		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Bristol Env & Eng Services Corporation

Job Number: 580-3377-1

**Lab Control Spike/
Lab Control Spike Duplicate Data Report - Batch: 580-10651**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 580-10651/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/31/2006 1909
Date Prepared: 08/31/2006 1909

Units: ug/L

LCSD Lab Sample ID: LCSD 580-10651/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/31/2006 1931
Date Prepared: 08/31/2006 1931

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Benzene	25.0	25.0	21.7	21.0
Toluene	25.0	25.0	23.2	22.3
Ethylbenzene	25.0	25.0	23.5	22.9
m-Xylene & p-Xylene	50.0	50.0	48.9	47.3
o-Xylene	25.0	25.0	23.8	23.4

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Bristol Env & Eng Services Corporation

Job Number: 580-3377-1

Method Blank - Batch: 580-10210

Method: 8270C
Preparation: 3510C

Lab Sample ID: MB 580-10210/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/25/2006 1159
Date Prepared: 08/25/2006 0814

Analysis Batch: 580-10237
Prep Batch: 580-10210
Units: ug/L

Instrument ID: SEA023
Lab File ID: HP02198.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume:

Analyte	Result	Qual	MDL	RL
Naphthalene	ND		0.0060	0.10
2-Methylnaphthalene	ND		0.0090	0.13
1-Methylnaphthalene	ND		0.032	0.10
Acenaphthylene	ND		0.0040	0.10
Acenaphthene	ND		0.0030	0.10
Fluorene	ND		0.0080	0.10
Phenanthrene	ND		0.0030	0.10
Anthracene	ND		0.0080	0.10
Fluoranthene	ND		0.0090	0.10
Pyrene	ND		0.013	0.10
Benzo[a]anthracene	ND		0.0090	0.10
Chrysene	ND		0.0090	0.10
Benzofluoranthene	ND		0.031	0.20
Benzo[a]pyrene	ND		0.060	0.20
Indeno[1,2,3-cd]pyrene	ND		0.015	0.10
Dibenz(a,h)anthracene	ND		0.012	0.10
Benzo[g,h,i]perylene	ND		0.018	0.10
Surrogate	% Rec		Acceptance Limits	
Nitrobenzene-d5	117		34 - 146	
2-Fluorobiphenyl	111		35 - 143	
Terphenyl-d14	112		35 - 166	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Bristol Env & Eng Services Corporation

Job Number: 580-3377-1

**Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 580-10210**

**Method: 8270C
Preparation: 3510C**

LCS Lab Sample ID: LCS 580-10210/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/25/2006 1227
Date Prepared: 08/25/2006 0814

Analysis Batch: 580-10237
Prep Batch: 580-10210
Units: ug/L

Instrument ID: SEA023
Lab File ID: HP02199.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume:

LCSD Lab Sample ID: LCSD 580-10210/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/25/2006 1254
Date Prepared: 08/25/2006 0814

Analysis Batch: 580-10237
Prep Batch: 580-10210
Units: ug/L

Instrument ID: SEA023
Lab File ID: HP02200.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 10 mL
Injection Volume:

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Naphthalene	115	108	40 - 100	6	32	*	*
2-Methylnaphthalene	114	108	45 - 105	5	30	*	*
1-Methylnaphthalene	116	110	50 - 150	6	50		
Acenaphthylene	121	115	50 - 105	5	45	*	*
Acenaphthene	112	107	45 - 110	4	27	*	
Fluorene	119	114	50 - 110	4	29	*	*
Phenanthrene	113	107	50 - 115	6	24		
Anthracene	113	106	55 - 110	6	28	*	
Fluoranthene	113	103	55 - 115	10	22		
Pyrene	110	101	50 - 130	8	38		
Benzo[a]anthracene	125	117	55 - 110	7	29	*	*
Chrysene	117	112	55 - 110	5	33	*	*
Benzo[fluoranthene]	122	117	45 - 125	4	41		
Benzo[a]pyrene	129	119	55 - 110	8	27	*	*
Indeno[1,2,3-cd]pyrene	120	107	45 - 125	11	34		
Dibenz(a,h)anthracene	116	105	40 - 125	10	42		
Benzo[g,h,i]perylene	104	94	40 - 125	10	32		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Nitrobenzene-d5	120		116		34 - 146		
2-Fluorobiphenyl	105		101		35 - 143		
Terphenyl-d14	107		98		35 - 166		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Bristol Env & Eng Services Corporation

Job Number: 580-3377-1

**Lab Control Spike/
Lab Control Spike Duplicate Data Report - Batch: 580-10210**

**Method: 8270C
Preparation: 3510C**

LCS Lab Sample ID: LCS 580-10210/2-A

Units: ug/L

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 08/25/2006 1227

Date Prepared: 08/25/2006 0814

LCSD Lab Sample ID: LCSD 580-10210/3-A

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 08/25/2006 1254

Date Prepared: 08/25/2006 0814

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Naphthalene	10.0	10.0	11.5	*	10.8	*
2-Methylnaphthalene	10.0	10.0	11.4	*	10.8	*
1-Methylnaphthalene	10.0	10.0	11.6		11.0	
Acenaphthylene	10.0	10.0	12.1	*	11.5	*
Acenaphthene	10.0	10.0	11.2	*	10.7	
Fluorene	10.0	10.0	11.9	*	11.4	*
Phenanthrene	10.0	10.0	11.3		10.7	
Anthracene	10.0	10.0	11.3	*	10.6	
Fluoranthene	10.0	10.0	11.3		10.3	
Pyrene	10.0	10.0	11.0		10.1	
Benzo[a]anthracene	10.0	10.0	12.5	*	11.7	*
Chrysene	10.0	10.0	11.7	*	11.2	*
Benzofluoranthene	20.0	20.0	24.3		23.4	
Benzo[a]pyrene	10.0	10.0	12.9	*	11.9	*
Indeno[1,2,3-cd]pyrene	10.0	10.0	12.0		10.7	
Dibenz(a,h)anthracene	10.0	10.0	11.6		10.5	
Benzo[g,h,i]perylene	10.0	10.0	10.4		9.44	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Bristol Env & Eng Services Corporation

Job Number: 580-3377-1

Method Blank - Batch: 580-10655

Method: AK101
Preparation: 5030B

Lab Sample ID: MB 580-10655/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/31/2006 1846
Date Prepared: 08/31/2006 1846

Analysis Batch: 580-10655
Prep Batch: N/A
Units: mg/L

Instrument ID: SEA003
Lab File ID: CS166909.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Gasoline Range Organics (GRO)-C6-C10	ND		0.010	0.050

Surrogate	% Rec	Acceptance Limits
Trifluorotoluene (Surr)	94	60 - 120
4-Bromofluorobenzene (Surr)	101	60 - 120
Ethylbenzene-d10	109	60 - 120
Fluorobenzene (Surr)	101	60 - 120
Toluene-d8 (Surr)	111	60 - 120

**Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 580-10655**

Method: AK101
Preparation: 5030B

LCS Lab Sample ID: LCS 580-10655/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/31/2006 1954
Date Prepared: 08/31/2006 1954

Analysis Batch: 580-10655
Prep Batch: N/A
Units: mg/L

Instrument ID: SEA003
Lab File ID: CS166912.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 580-10655/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/31/2006 2016
Date Prepared: 08/31/2006 2016

Analysis Batch: 580-10655
Prep Batch: N/A
Units: mg/L

Instrument ID: SEA003
Lab File ID: CS166913.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C6-C10	86	84	60 - 120	3	20		
Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits				
Trifluorotoluene (Surr)	100	97	60 - 120				
4-Bromofluorobenzene (Surr)	103	102	60 - 120				
Ethylbenzene-d10	109	108	60 - 120				
Fluorobenzene (Surr)	105	105	60 - 120				
Toluene-d8 (Surr)	108	106	60 - 120				

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Bristol Env & Eng Services Corporation

Job Number: 580-3377-1

**Lab Control Spike/
Lab Control Spike Duplicate Data Report - Batch: 580-10655**

**Method: AK101
Preparation: 5030B**

LCS Lab Sample ID: LCS 580-10655/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/31/2006 1954
Date Prepared: 08/31/2006 1954

Units: mg/L

LCSD Lab Sample ID: LCSD 580-10655/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/31/2006 2016
Date Prepared: 08/31/2006 2016

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Gasoline Range Organics (GRO)-C6-C10	1.25	1.25	1.08	1.05

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Bristol Env & Eng Services Corporation

Job Number: 580-3377-1

Method Blank - Batch: 580-10208

Method: AK102 & 103
Preparation: 3510C

Lab Sample ID: MB 580-10208/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/25/2006 1141
Date Prepared: 08/25/2006 0807

Analysis Batch: 580-10239
Prep Batch: 580-10208
Units: mg/L

Instrument ID: SEA015
Lab File ID: PL13661.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result	Qual	MDL	RL
DRO (nC10-<nC25)	ND		0.022	0.10
RRO (nC25-nC36)	ND		0.026	0.10
<hr/>				
Surrogate	% Rec	Acceptance Limits		
o-Terphenyl	88	60 - 120		
n-Triacontane-d62	98	60 - 120		

**Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 580-10208**

Method: AK102 & 103
Preparation: 3510C

LCS Lab Sample ID: LCS 580-10208/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/25/2006 1201
Date Prepared: 08/25/2006 0807

Analysis Batch: 580-10239
Prep Batch: 580-10208
Units: mg/L

Instrument ID: SEA015
Lab File ID: PL13662.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

LCSD Lab Sample ID: LCSD 580-10208/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/25/2006 1227
Date Prepared: 08/25/2006 0807

Analysis Batch: 580-10239
Prep Batch: 580-10208
Units: mg/L

Instrument ID: SEA015
Lab File ID: PL13663.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
DRO (nC10-<nC25)	95	90	75 - 125	6	20		
RRO (nC25-nC36)	83	80	60 - 120	3	20		
<hr/>							
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
o-Terphenyl	92		80		60 - 120		
n-Triacontane-d62	94		92		60 - 120		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Bristol Env & Eng Services Corporation

Job Number: 580-3377-1

**Lab Control Spike/
Lab Control Spike Duplicate Data Report - Batch: 580-10208**

**Method: AK102 & 103
Preparation: 3510C**

LCS Lab Sample ID: LCS 580-10208/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/25/2006 1201
Date Prepared: 08/25/2006 0807

Units: mg/L

LCSD Lab Sample ID: LCSD 580-10208/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/25/2006 1227
Date Prepared: 08/25/2006 0807

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
DRO (nC10-<nC25)	0.500	0.500	0.477	0.449
RRO (nC25-nC36)	0.501	0.501	0.414	0.401

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Bristol Env & Eng Services Corporation

Job Number: 580-3377-1

Method Blank - Batch: 580-10401

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 580-10401/8-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 08/29/2006 1909
 Date Prepared: 08/29/2006 1147

Analysis Batch: 580-10422
 Prep Batch: 580-10401
 Units: mg/L

Instrument ID: SEA026
 Lab File ID: N/A
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Arsenic	ND		0.000073	0.00040
Barium	0.000020	J	0.000018	0.00040
Cadmium	ND		0.0000074	0.00040
Chromium	0.000057	J	0.000029	0.00040
Lead	0.000011	J	0.0000031	0.00040
Nickel	0.000048	J	0.000010	0.00040
Vanadium	0.00030	J	0.000068	0.00040

LCS-Standard Reference Material - Batch: 580-10401

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCSSRM 580-10401/11-A
 Client Matrix: Water
 Dilution: 50
 Date Analyzed: 08/29/2006 1946
 Date Prepared: 08/29/2006 1147

Analysis Batch: 580-10422
 Prep Batch: 580-10401
 Units: mg/L

Instrument ID: SEA026
 Lab File ID: N/A
 Initial Weight/Volume: 50 mL
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	4.00	4.21	105	80 - 120	
Barium	4.00	4.15	104	80 - 120	
Cadmium	0.100	0.103	103	80 - 120	
Chromium	0.400	0.417	104	80 - 120	
Lead	1.00	1.06	106	80 - 120	
Nickel	1.00	1.05	105	80 - 120	
Vanadium	1.00	1.06	106	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Bristol Env & Eng Services Corporation

Job Number: 580-3377-1

**Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 580-10401**

**Method: 6020
Preparation: 3005A
Total Recoverable**

LCS Lab Sample ID: LCS 580-10401/9-A
Client Matrix: Water
Dilution: 50
Date Analyzed: 08/29/2006 1938
Date Prepared: 08/29/2006 1147

Analysis Batch: 580-10422
Prep Batch: 580-10401
Units: mg/L

Instrument ID: SEA026
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 580-10401/10-A
Client Matrix: Water
Dilution: 50
Date Analyzed: 08/29/2006 1942
Date Prepared: 08/29/2006 1147

Analysis Batch: 580-10422
Prep Batch: 580-10401
Units: mg/L

Instrument ID: SEA026
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Arsenic	105	105	80 - 120	0	20		
Barium	106	105	80 - 120	1	20		
Cadmium	101	104	80 - 120	3	20		
Chromium	105	104	80 - 120	1	20		
Lead	106	106	80 - 120	0	20		
Nickel	105	106	80 - 120	1	20		
Vanadium	106	104	80 - 120	1	20		

**Lab Control Spike/
Lab Control Spike Duplicate Data Report - Batch: 580-10401**

**Method: 6020
Preparation: 3005A
Total Recoverable**

LCS Lab Sample ID: LCS 580-10401/9-A
Client Matrix: Water
Dilution: 50
Date Analyzed: 08/29/2006 1938
Date Prepared: 08/29/2006 1147

Units: mg/L

LCSD Lab Sample ID: LCSD
Client Matrix: Water
Dilution: 50
Date Analyzed: 08/29/2006 1942
Date Prepared: 08/29/2006 1147

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Arsenic	4.00	4.00	4.18	4.19
Barium	4.00	4.00	4.22	4.18
Cadmium	0.100	0.100	0.101	0.104
Chromium	0.400	0.400	0.418	0.416
Lead	1.00	1.00	1.06	1.06
Nickel	1.00	1.00	1.05	1.06
Vanadium	1.00	1.00	1.06	1.04

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Bristol Env & Eng Services Corporation

Job Number: 580-3377-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-10401**

**Method: 6020
Preparation: 3005A
Total Recoverable**

MS Lab Sample ID: 580-3377-1 Analysis Batch: 580-10422
Client Matrix: Water Prep Batch: 580-10401
Dilution: 50
Date Analyzed: 08/29/2006 1925
Date Prepared: 08/29/2006 1147

Instrument ID: SEA026
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 580-3377-1 Analysis Batch: 580-10422
Client Matrix: Water Prep Batch: 580-10401
Dilution: 50
Date Analyzed: 08/29/2006 1930
Date Prepared: 08/29/2006 1147

Instrument ID: SEA026
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Arsenic	108	113	75 - 125	5	20		
Barium	110	114	75 - 125	3	20	B	B
Cadmium	106	110	75 - 125	4	20		
Chromium	112	110	75 - 125	2	20	B	B
Lead	110	111	75 - 125	1	20	B	B
Nickel	111	112	75 - 125	1	20	B	B
Vanadium	111	112	75 - 125	0	20	B	B

**Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 580-10401**

**Method: 6020
Preparation: 3005A
Total Recoverable**

MS Lab Sample ID: 580-3377-1 Units: mg/L
Client Matrix: Water
Dilution: 50
Date Analyzed: 08/29/2006 1925
Date Prepared: 08/29/2006 1147

MSD Lab Sample ID: 580-3377-1
Client Matrix: Water
Dilution: 50
Date Analyzed: 08/29/2006 1930
Date Prepared: 08/29/2006 1147

Analyte	Sample		MS Spike Amount	MSD Spike Amount	MS		MSD	
	Result/Qual				Result/Qual		Result/Qual	
Arsenic	0.000925	J	4.00	4.00	4.32		4.54	
Barium	0.000540	J	4.00	4.00	4.42	B	4.56	B
Cadmium	-0.0000250		0.100	0.100	0.106		0.110	
Chromium	0.00346		0.400	0.400	0.451	B	0.443	B
Lead	0.000115	J	1.00	1.00	1.10	B	1.11	B
Nickel	0.00154	J	1.00	1.00	1.11	B	1.12	B
Vanadium	-0.0000950		1.00	1.00	1.11	B	1.12	B

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Bristol Env & Eng Services Corporation

Job Number: 580-3377-1

Duplicate - Batch: 580-10401

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: 580-3377-1
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 08/29/2006 1921
Date Prepared: 08/29/2006 1147

Analysis Batch: 580-10422
Prep Batch: 580-10401
Units: mg/L

Instrument ID: SEA026
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Arsenic	0.000925 J	0.00184	66	20	J
Barium	0.000540 J	0.000705	27	20	J B
Cadmium	-0.0000250	0.0	NC	20	
Chromium	0.00346	0.00397	14	20	B
Lead	0.000115 J	0.000160	33	20	J B
Nickel	0.00154 J	0.00133	15	20	J B
Vanadium	-0.0000950	0.00477	NC	20	B

Calculations are performed before rounding to avoid round-off errors in calculated results.

DATA REPORTING QUALIFIERS

Client: Bristol Env & Eng Services Corporation

Job Number: 580-3377-1

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Compound was found in the blank and sample.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	H	Sample was prepped or analyzed beyond the specified holding time
	X	Surrogate exceeds the control limits
GC/MS Semi VOA		
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC VOA		
	H	Sample was prepped or analyzed beyond the specified holding time
GC Semi VOA		
	M	Manual integrated compound.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	B	Compound was found in the blank and sample.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

4.9 / 5.5c

3377

CHAIN OF CUSTODY RECORD

SEVERN TRENT LABORATORY

5755 8 St East, Tacoma WA 98424 • (253) 922-2310

COC# GAM-04_revised

PAGE 1 OF 1

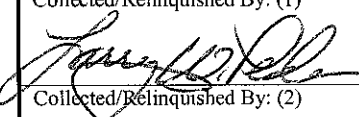

Contact: Michelle Turner Phone No: 907-563-0013

Project: 56016 Gambell FUDS Remedial Action

Reports To:
Michelle Turner
BEESC
111 W. 16th Ave, Suite 301
Anchorage, AK 99501

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No. JARS	GRO (AK101)	BTEX (8260)	DRO/RRO (AK102/103)	PAH (8270 SIMS)	As, Ba, Cd, Cr, Pb, Ni, Vd (6020)	LOCID	Remarks
	06GAM05GS20	8/16/06	1330	GW	11	X	X	X	X	X	MW-30	
	06GAM05GSTB5	8/21/06	X	TB	1	X	X				Trip Blank	
	End of COC											

Page 30 of 388

Collected/Relinquished By: (1) 	Date 8/21/06	Time 1200	Received By: 	8/22/06	1300	Shipping Carrier:	Temperature C:
Collected/Relinquished By: (2)	Date	Time	Received By:			Shipping Ticket No:	Chain of Custody Seal: (Circle)
Collected/Relinquished By: (3)	Date	Time	Received By:			Data Deliverables: USACE data deliverables requested; SEDD and COELT EDDs requested	INTACT BROKEN ABSENT
Collected/Relinquished By: (4)	Date	Time	Received For Laboratory By:			Requested Turnaround Time and Special Instructions: USACE Job # 05-013.	
						NOA Michelle Turner – BEESC 907-563-0013 (mturner@beesc.com) Cooler receipt & temp	

Torres, Terri

From: Turner, Michelle [mturner@bristol-companies.com]
Sent: Wednesday, August 23, 2006 5:08 PM
To: Torres, Terri
Cc: Pederson, Larry
Subject: RE: COC for the Gambell Sampling event

Terri,
Could you please make the following corrections on the COC#
GAM-04_revised:
1) the trip blank sample ID should be the one on the COC, not the one on
the bottle
2) the sample date should be 8/16/06 with a time of 1300.

Thanks,
Michelle

Michelle T. Turner
Environmental Specialist
Bristol Environmental & Engineering Services Corp.
111 W. 16th Ave., Suite 301
Anchorage, AK 99501
907-563-0013

-----Original Message-----

From: Torres, Terri [mailto:TTorres@stl-inc.com]
Sent: Wednesday, August 23, 2006 3:56 PM
To: Turner, Michelle
Subject: COC for the Gambell Sampling event

Michelle,

Attached is the COC. The Trip Blank label reads V5A080933 8/10/06
(which I believe is SGS's ID for this trip blank).

Thanks,

Terri Torres

Customer Service Manager
STL Seattle
5755 8th Street East
Tacoma, WA 98424
(253) 922-2310
Leaders in Environmental Testing

Confidentiality Notice: The information contained in this message is
intended only for the use of the addressee, and may be confidential
and/or privileged. If the reader of this message is not the intended
recipient, or the employee or agent responsible to deliver it to the
intended recipient, you are hereby notified that any dissemination,
distribution or copying of this communication is strictly prohibited.
If you have received this communication in error, please notify the
sender immediately.

Cooler ID No. Small red

STL Work Order # 3377

COOLER RECEIPT FORM

Project 56014 Gambell FUDS Remedial ACTION

Cooler received on 8/27 and opened on 8/23 by SR

Sandra Rose

(signature)

Temperature upon receipt: Cooler 5.5 oC.

Temp. Blank 4.9 oC.

1. Were custody seals on outside of cooler and intact? YES NO
a. If yes, how many and where: 0
b. Were signature and date correct?
2. Were custody papers taped to lid inside cooler? YES NO
3. Were custody papers properly filled out(ink, signed, etc)? YES NO
4. Did you sign custody papers in the appropriate place? YES NO
5. Did you attach shipper's packing slip to this form? SR YES NO
6. What kind of packing material was used? Bubble Wrap
7. Was sufficient ice used? YES NO
8. Were all bottles sealed in separate plastic bags? YES NO
9. Did all bottles arrive in good condition (unbroken)? YES NO
10. Were all bottle labels complete (no., date, signed, pres, etc)? YES NO
11. Did all bottle labels and tags agree with custody papers? YES NO
12. Were correct bottles used for the test indicated? YES NO
13. If present, were voa vials checked for absence of airbubbles and noted if found? YES NO
14. Adequate volume of voa vials received per sample? YES NO
15. Was sufficient amount of sample sent in each bottle? YES NO
16. Were correct preservatives used? YES NO
17. Were extra labels added to pre-tared containers? YES NO N/A
18. Corrective action taken, if necessary:
a. Name of person contacted: Michelle Turner
b. Date: 8/23/06

* see enclosed email

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Bristol Env & Eng Services Corporation

Job Number: 580-3377-1

Login Number: 3377

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

DATA DELIVERABLES PACKAGE

VOLATILE AROMATIC HYDROCARBONS DATA PACKAGE

SAMPLE DATA

Data File : I:\1\DATA\08312006\MS166920.D
 Acq On : 31 Aug 2006 10:53 pm
 Sample : 580-3377-D-1
 Misc : water BT=Sea003083106ml
 MS Integration Params: rteint.p
 Quant Time: Sep 05 10:19:19 2006

Vial: 38
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Results File: RBCA_08172006.RE

Quant Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260E 08-17-2006
 Last Update : Thu Aug 17 16:02:16 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX

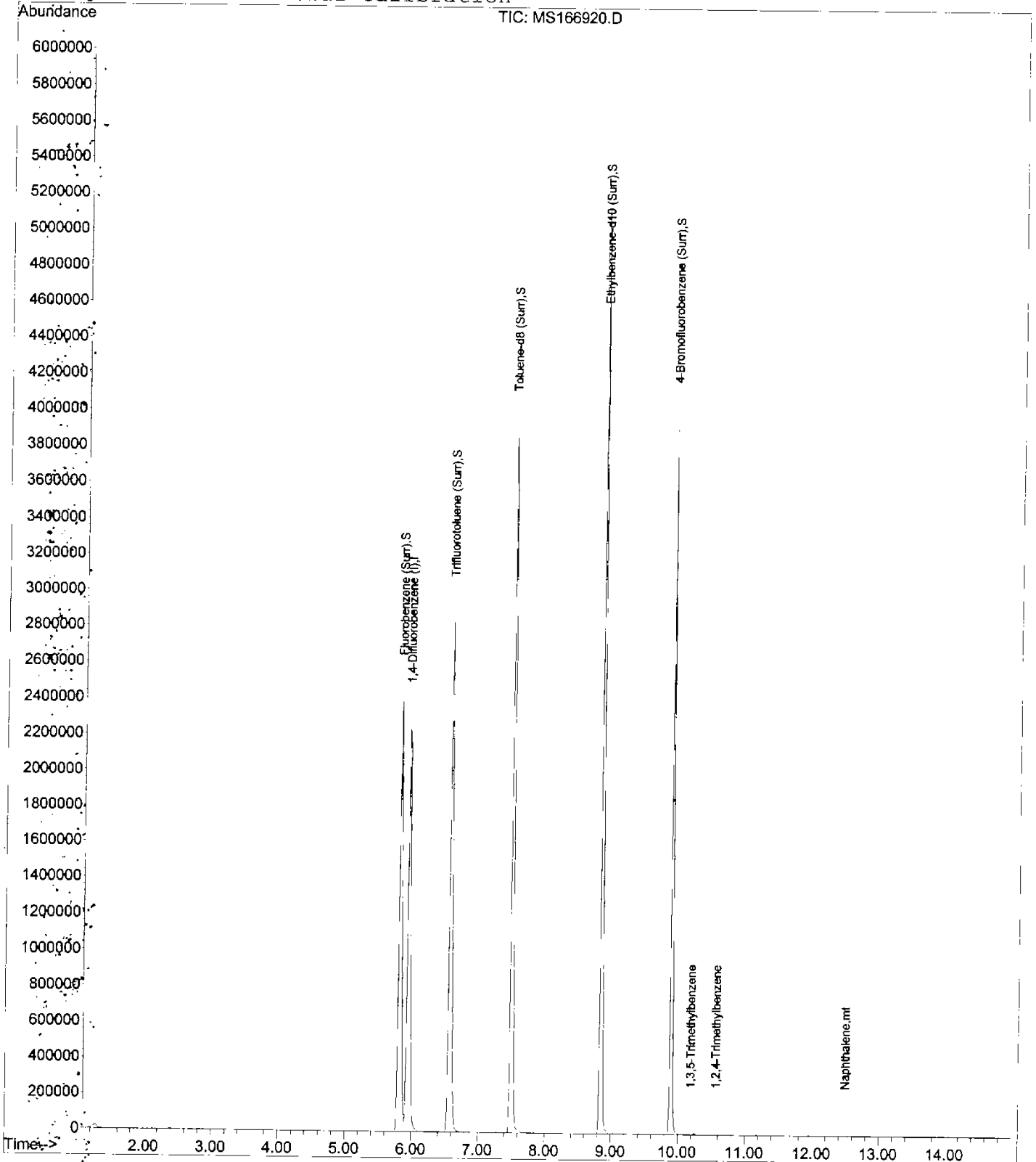
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene (I)	5.95	114	3469243	100.00	ug/L	-0.01
System Monitoring Compounds						
2) Fluorobenzene (Surr)	5.82	96	3663574	104.06	ug/L	0.00
3) Trifluorotoluene (Surr)	6.57	146	2172430	122.29	ug/L	0.00
Spiked Amount	100.000	Range	82 - 120	Recovery	=	122.29%#
4) Toluene-d8 (Surr)	7.50	98	3675510	104.88	ug/L	-0.01
Spiked Amount	100.000			Recovery	=	104.88%
5) Ethylbenzene-d10 (Surr)	8.85	98	4601385	104.63	ug/L	0.00
Spiked Amount	100.000			Recovery	=	104.63%
6) 4-Bromofluorobenzene (Surr)	9.90	95	1384646	103.46	ug/L	0.00
Spiked Amount	100.000	Range	84 - 135	Recovery	=	103.46%
Target Compounds						
19) 1,3,5-Trimethylbenzene	10.19	105	504	0.20	ug/L #	38
20) 1,2,4-Trimethylbenzene	10.57	105	768	0.23	ug/L #	39
21) Naphthalene	12.50	128	518	0.15	ug/L #	68

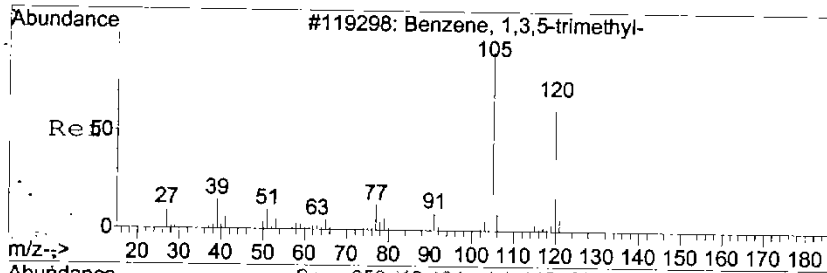
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Acq On : 31 Aug 2006 10:53 pm
Sample : 580-3377-D-1
Misc : water BT=Sea003083106ml
MS Integration Params: rteint.p
Quant Time: Sep 5 10:19 2006

Vial: 38
Operator: jc
Inst : Instrumen
Multiplr: 1.00

Quant Results File: RBCA_08172006

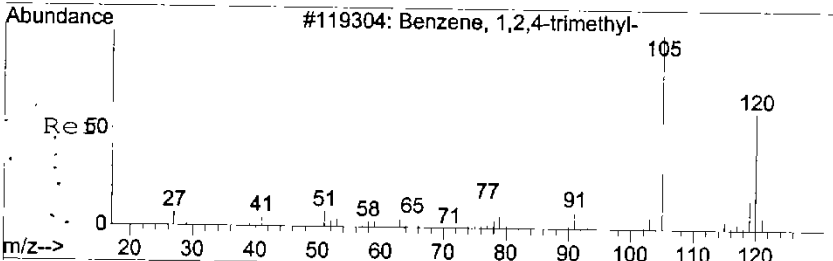
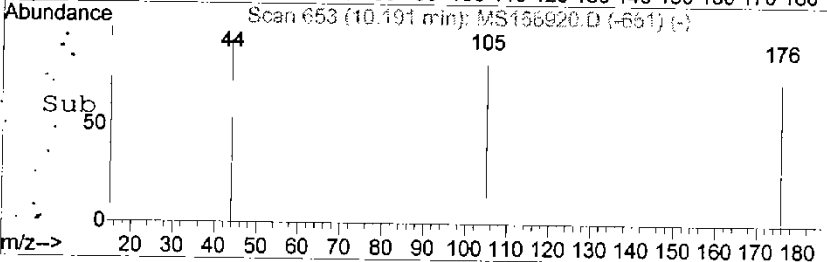
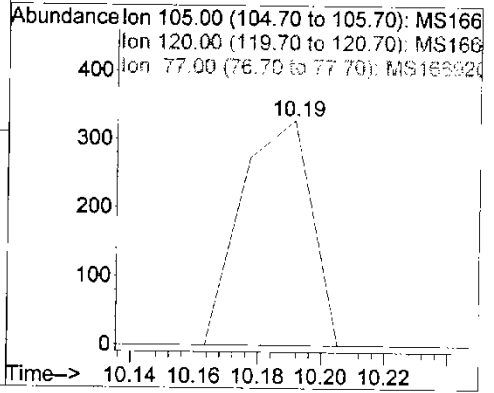
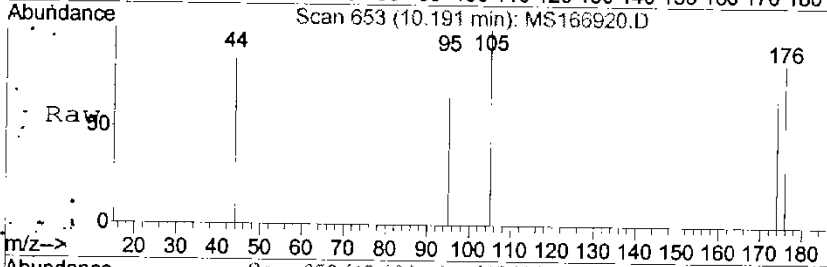
Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
Title : RBCA plus by 8260B 08-17-2006
Last Update : Thu Aug 17 16:02:16 2006
Response via : Initial Calibration





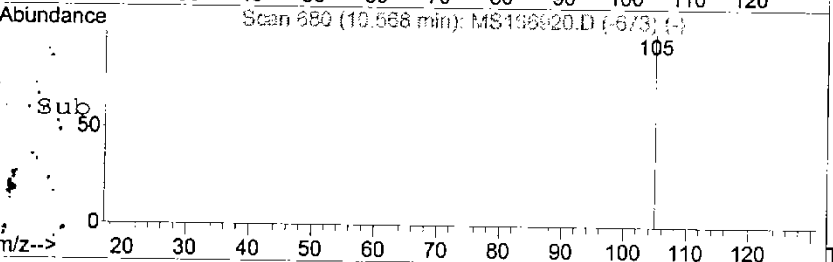
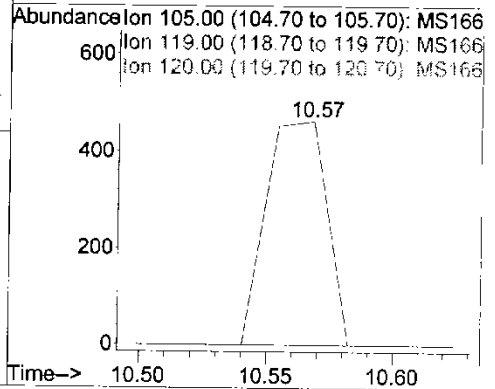
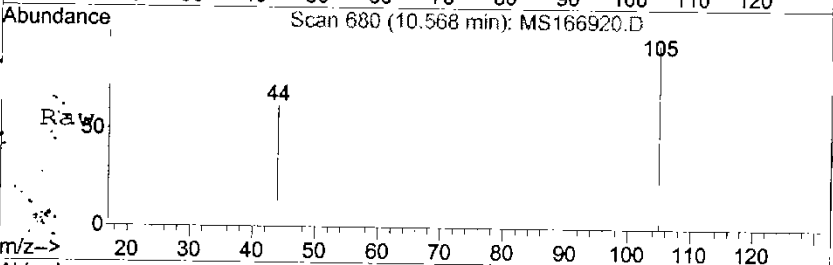
#19
 1,3,5-Trimethylbenzene
 Concen: 0.20 ug/L
 RT: 10.19 min Scan# 653
 Delta R.T. -0.07 min
 Lab File: MS166920.D
 Acq: 31 Aug 2006 10:53 pm

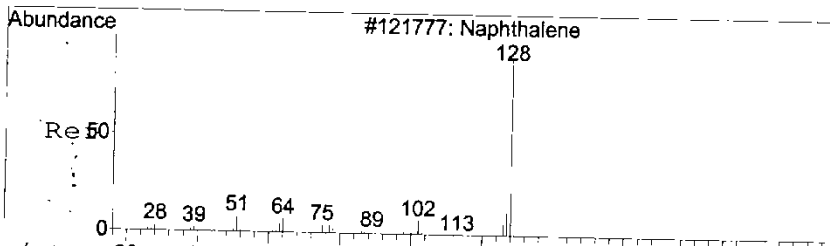
Tgt Ion	Resp	Lower	Upper
105	100		
120	0.0	37.9	56.9#
77	0.0	11.4	17.2#



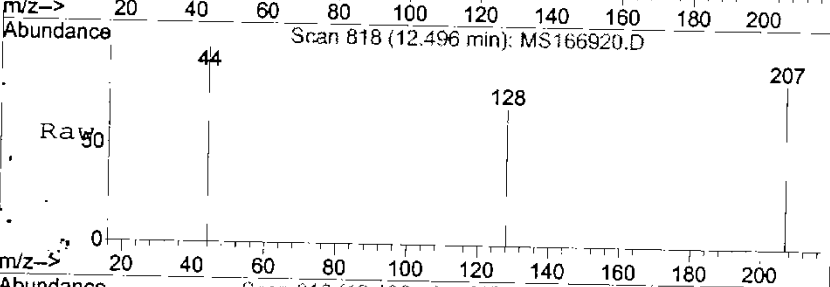
#20
 1,2,4-Trimethylbenzene
 Concen: 0.23 ug/L
 RT: 10.57 min Scan# 680
 Delta R.T. 0.00 min
 Lab File: MS166920.D
 Acq: 31 Aug 2006 10:53 pm

Tgt Ion	Resp	Lower	Upper
105	100		
119	0.0	9.1	13.7#
120	0.0	36.6	54.8#



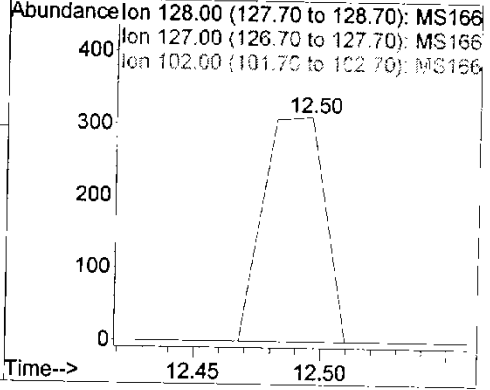
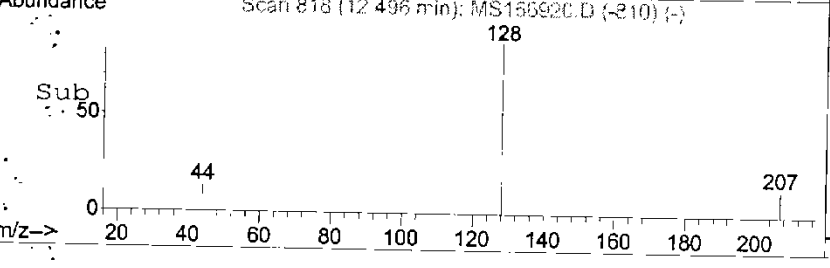


#21
Naphthalene
Concen: 0.15 ug/L
RT: 12.50 min Scan# 818
Delta R.T. 0.01 min
Lab File: MS166920.D
Acq: 31 Aug 2006 10:53 pm



Tgt Ion: 128 Resp: 518

Ion	Ratio	Lower	Upper
128	100		
127	0.0	11.2	16.8#
102	0.0	8.5	12.7#



Data File : I:\1\DATA\08312006\MS166919.D
 Acq On : 31 Aug 2006 10:31 pm
 Sample : 580-3377-A-2
 Misc : water BT=Sea003083106ml
 MS Integration Params: rteint.p
 Quant Time: Sep 05 10:19:11 2006

Vial: 37
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Results File: RBCA_08172006.RES

Quant Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260B 08-17-2006
 Last Update : Thu Aug 17 16:02:16 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX

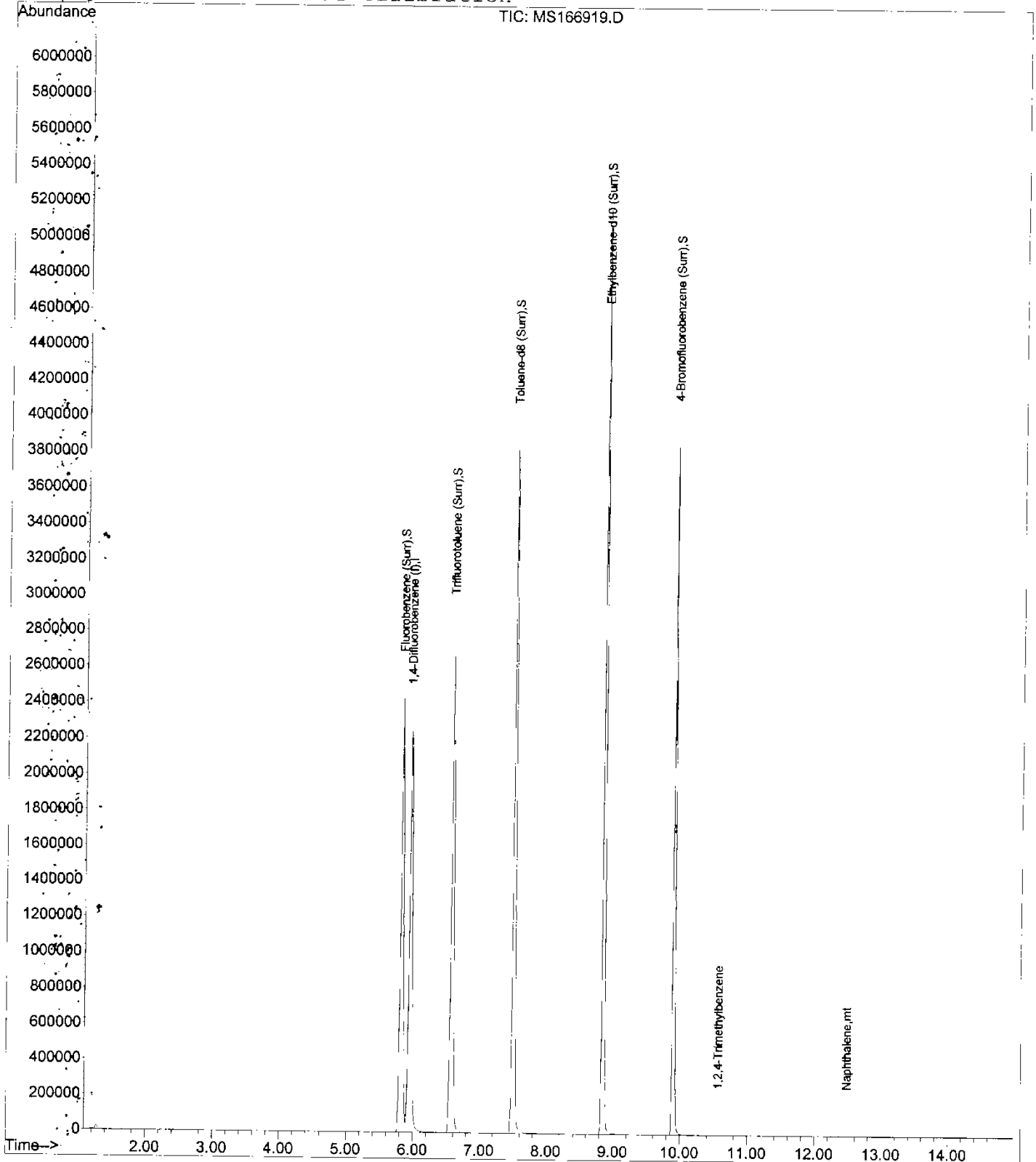
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Difluorobenzene (I)	5.95	114	3492553	100.00	ug/L	-0.01
System Monitoring Compounds						
2) Fluorobenzene (Surr)	5.82	96	3697229	104.31	ug/L	0.00
3) Trifluorotoluene (Surr)	6.57	146	2087011	116.70	ug/L	0.00
Spiked Amount	100.000	Range	82 - 120	Recovery	=	116.70%
4) Toluene-d8 (Surr)	7.50	98	3673686	104.12	ug/L	-0.01
Spiked Amount	100.000			Recovery	=	104.12%
5) Ethylbenzene-d10 (Surr)	8.85	98	4603311	104.02	ug/L	0.00
Spiked Amount	100.000			Recovery	=	104.02%
6) 4-Bromofluorobenzene (Surr)	9.90	95	1378531	102.39	ug/L	0.00
Spiked Amount	100.000	Range	84 - 135	Recovery	=	102.39%
Target Compounds						
20) 1,2,4-Trimethylbenzene	10.57	105	548	0.22	ug/L	Qvalue # 39
21) Naphthalene	12.48	128	305	0.14	ug/L	# 68

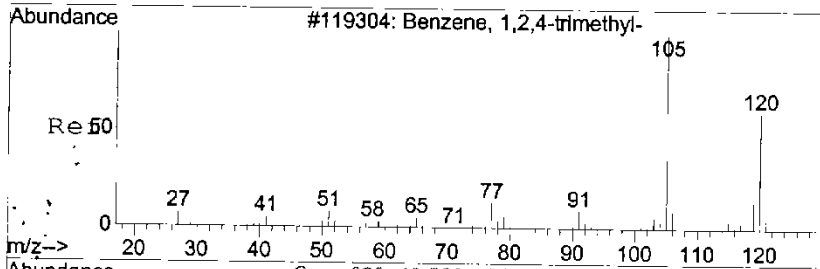
Data File : I:\1\DATA\08312006\MS166919.D
Acq On : 31 Aug 2006 10:31 pm
Sample : 580-3377-A-2
Misc : water BT=Sea003083106ml
MS Integration Params: rteint.p
Quant Time: Sep 5 10:19 2006

Vial: 37
Operator: jc
Inst : Instrumen
Multiplr: 1.00

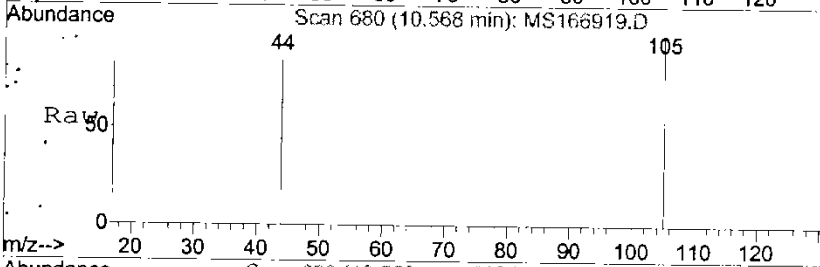
Quant Results File: RBCA_08172006

Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
Title : RBCA plus by 8260B 08-17-2006
Last Update : Thu Aug 17 16:02:16 2006
Response via : Initial Calibration

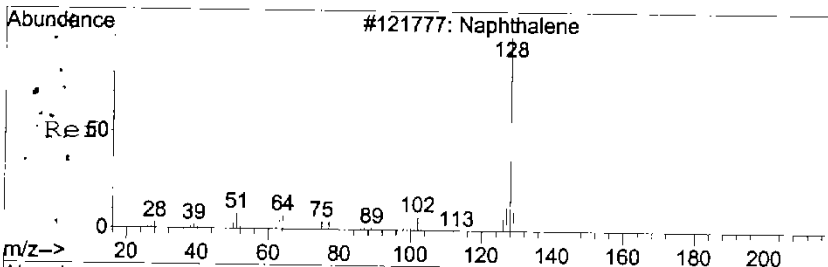
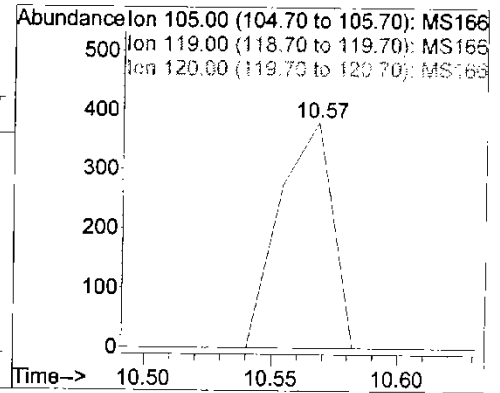
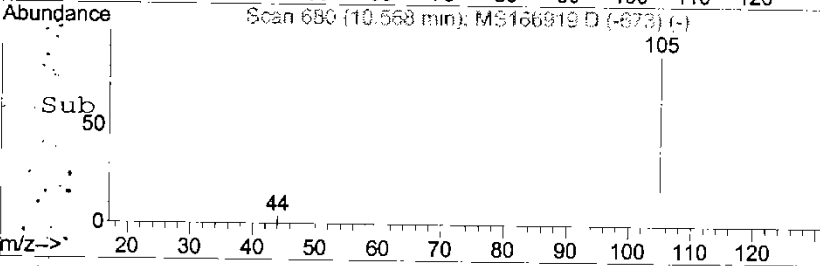




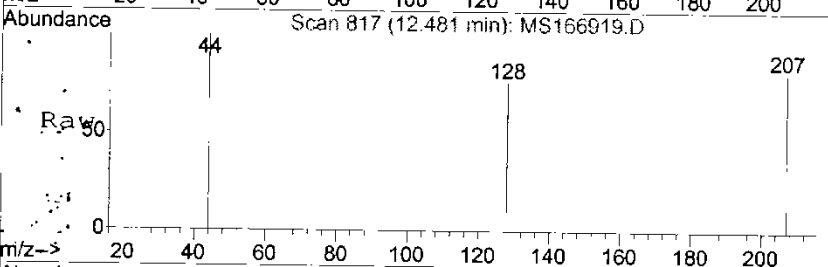
#20
 1,2,4-Trimethylbenzene
 Concen: 0.22 ug/L
 RT: 10.57 min Scan# 680
 Delta R.T. -0.00 min
 Lab File: MS166919.D
 Acq: 31 Aug 2006 10:31 pm



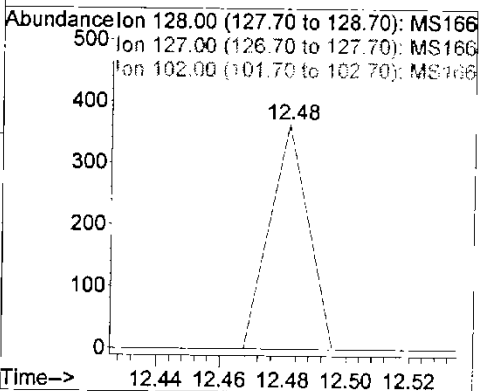
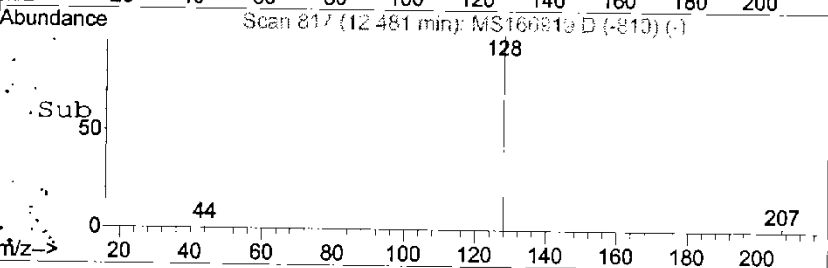
Tgt Ion:105 Resp: 548
 Ion Ratio Lower Upper
 105 100
 119 0.0 9.1 13.7#
 120 0.0 36.6 54.8#



#21
 Naphthalene
 Concen: 0.14 ug/L
 RT: 12.48 min Scan# 817
 Delta R.T. -0.00 min
 Lab File: MS166919.D
 Acq: 31 Aug 2006 10:31 pm



Tgt Ion:128 Resp: 305
 Ion Ratio Lower Upper
 128 100
 127 0.0 11.2 16.8#
 102 0.0 8.5 12.7#



INITIAL CALIBRATION

Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260B 08-17-2006
 Last Update : Thu Aug 17 16:02:16 2006
 Response via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.2	-1	100	I:\1\DATA\08172006\MS166702.D
2	0.5	10	100	I:\1\DATA\08172006\MS166703.D
3	1	40	100	I:\1\DATA\08172006\MS166704.D
4	5	60	100	I:\1\DATA\08172006\MS166705.D
5	10	80	100	I:\1\DATA\08172006\MS166706.D
6	25	100	100	I:\1\DATA\08172006\MS166707.D
7	50	120	100	I:\1\DATA\08172006\MS166708.D
8	75	150	100	I:\1\DATA\08172006\MS166709.D
9	100	200	100	I:\1\DATA\08172006\MS166710.D
10	150	-1	100	I:\1\DATA\08172006\MS166711.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.2	Aug 17 16:01 2006	Aug 17 16:00 2006	17 Aug 2006 10:45 am
2	0.5	Aug 17 16:01 2006	Aug 17 16:00 2006	17 Aug 2006 11:07 am
3	1	Aug 17 16:01 2006	Aug 17 16:00 2006	17 Aug 2006 11:30 am
4	5	Aug 17 16:01 2006	Aug 17 16:00 2006	17 Aug 2006 11:52 am
5	10	Aug 17 16:01 2006	Aug 17 16:00 2006	17 Aug 2006 12:14 pm
6	25	Aug 17 16:01 2006	Aug 17 16:00 2006	17 Aug 2006 12:37 pm
7	50	Aug 17 16:01 2006	Aug 17 16:00 2006	17 Aug 2006 1:00 pm
8	75	Aug 17 16:01 2006	Aug 17 16:00 2006	17 Aug 2006 1:22 pm
9	100	Aug 17 16:01 2006	Aug 17 16:00 2006	17 Aug 2006 1:45 pm
10	150	Aug 17 16:01 2006	Aug 17 16:00 2006	17 Aug 2006 2:07 pm

RBCA_08172006.M

Fri Aug 18 12:04:01 2006

HEXANE IS CALIBRATED
 FROM 0.5-150 U/L

ED8 IS CALIBRATED
 FROM 1-150 U/L

NAPHTHALENE IS CALIBRATED
 FROM 0.1-30 U/L

CALIBRATION NOT VALID
 FOR EDC

JC
 8/18/06

Response Factor Report Instrumen

Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260B 08-17-2006
 Last Update : Thu Aug 17 16:02:16 2006
 Response via : Initial Calibration

Calibration Files

0.2 =MS166702.D 0.5 =MS166703.D 1 =MS166704.D
 5 =MS166705.D 10 =MS166706.D 25 =MS166707.D

Compound	0.2	0.5	1	5	10	25	Avg	%RSD
1) E 1,4-Difluorobenzene (	-----ISTD-----							
2) S Fluorobenzene (	1.079	0.984	0.978	0.989	1.017	1.015		3.26
3) S Trifluorotoluen	0.514	0.483	0.487	0.490	0.515	0.512		4.83
4) S Toluene-d8 (Sur	1.038	0.973	0.978	0.982	1.018	1.010		2.88
5) S Ethylbenzene-d1	1.239	1.187	1.203	1.206	1.278	1.255		4.24
6) S 4-Bromofluorobe	0.373	0.358	0.367	0.367	0.389	0.382		4.72
7) mt MTBE	0.312	0.259	0.252	0.330	0.394	0.445	0.389	24.06
8) T Hexane	0.095	0.083	0.112	0.117	0.132	0.114		13.64
9) Cyclohexane	0.287	0.260	0.211	0.270	0.304	0.320	0.293	12.57
10) mt Benzene	1.277	0.955	0.797	0.885	0.957	0.956	0.973	12.53
11) mt 1,2-Dichloroeth	0.394	0.306	0.293	0.306	0.331	0.273	0.238	46.37
12) mt Toluene	0.827	0.689	0.597	0.621	0.657	0.662	0.683	9.30
13) 1,2-Dibromoetha			0.020	0.053	0.091	0.129	0.131	54.83
14) mt Ethylbenzene	1.319	1.213	1.051	1.120	1.190	1.230	1.237	8.13
15) mt m&p-Xylene	0.491	0.413	0.372	0.409	0.439	0.463	0.474	14.19
16) mt o-Xylene	1.002	0.856	0.763	0.861	0.941	0.963	0.956	10.81
17) Isopropylbenzen	0.988	0.823	0.712	0.835	0.925	0.966	0.962	14.89
18) n-propylbenzene	1.221	1.112	0.989	1.155	1.247	1.333	1.273	12.44
19) 1,3,5-Trimethyl	0.791	0.703	0.621	0.751	0.817	0.877	0.856	17.19
20) 1,2,4-Trimethyl	0.776	0.657	0.575	0.722	0.798	0.883	0.846	20.06
21) mt Naphthalene	0.229	0.199	0.264	0.330	0.394	0.375		32.77

Sequence Log

Directory : x:\1\DATA\08172006

#	Filename	Sample Name	Date/Time
1	ms166699.d	rinse/tune	
2	ms166700.d	rinse/tune	08/17/06 09:37
3	ms166702.d	btex ical 0.2	08/17/06 09:59
4	ms166703.d	btex ical 0.5	08/17/06 10:45
5	ms166704.d	btex ical 1	08/17/06 11:07
6	ms166705.d	btex ical 5	08/17/06 11:30
7	ms166706.d	btex ical 10	08/17/06 11:52
8	ms166707.d	btex ical 25	08/17/06 12:14
9	ms166708.d	btex ical 50	08/17/06 12:37
10	ms166709.d	btex ical 75	08/17/06 13:00
11	ms166710.d	btex ical 100	08/17/06 13:22
12	ms166711.d	btex ical 150	08/17/06 13:45
13	ms166712.d	rinse/tune	08/17/06 14:07
14	ms166713.d	btex icv 25	08/17/06 14:30
			08/17/06 14:52

Data File : I:\1\DATA\08172006\MS166702.D
 Acq On : 17 Aug 2006 10:45 am
 Sample : btex ical 0.2
 Misc : 1369-34-1
 MS Integration Params: rteint.p
 Quant Time: Aug 17 16:00:49 2006

Vial: 4
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Results File: RBCA_08172006.RES

Quant Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260B 08-17-2006
 Last Update : Thu Aug 17 16:00:21 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX

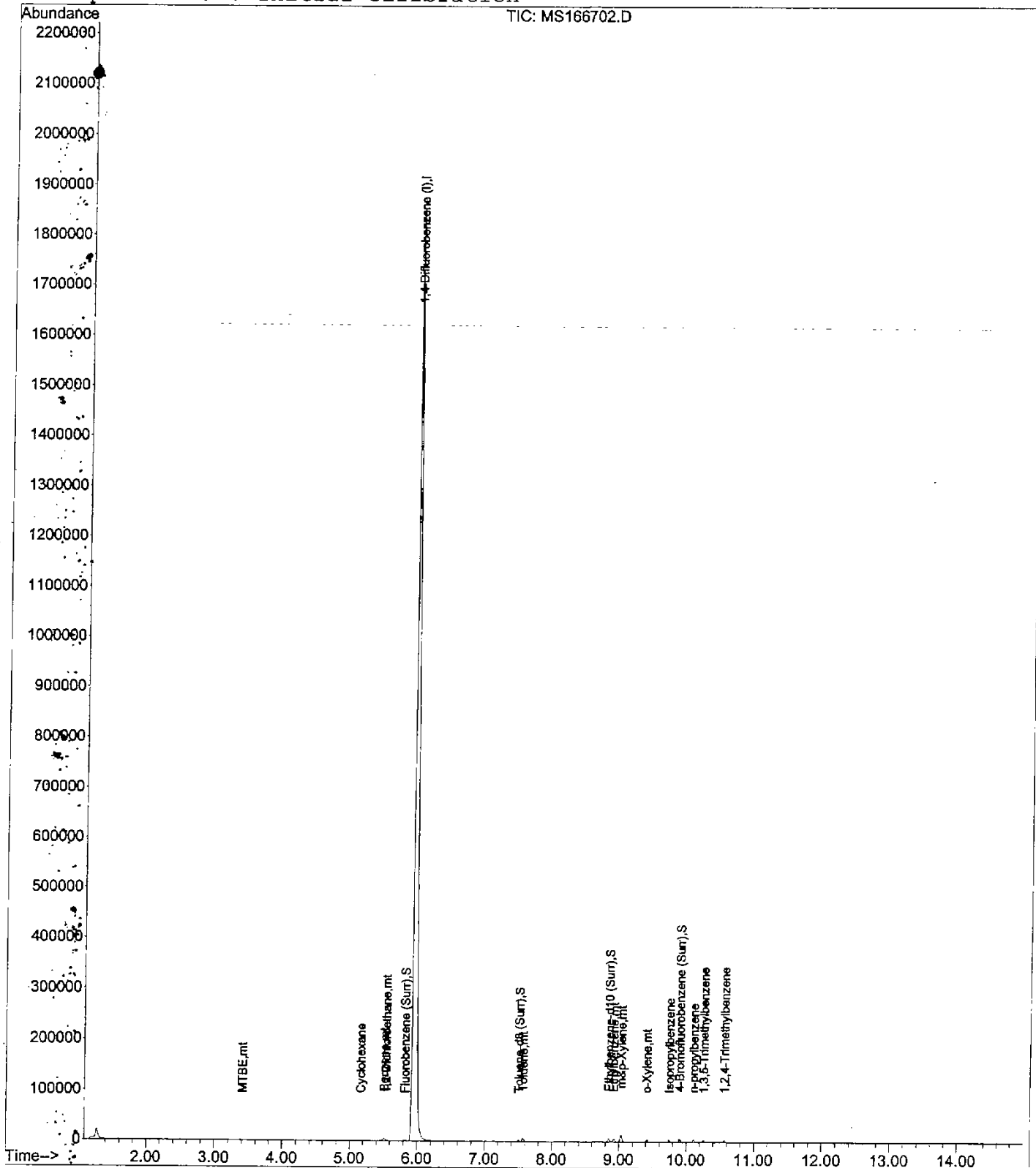
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Difluorobenzene (I)	5.96	114	2619795	100.00	ug/L	0.00
System Monitoring Compounds						
2) Fluorobenzene (Surr)	5.82	96	3468	0.13	ug/L	0.00
3) Trifluorotoluene (Surr)	0.00	146	0	0.00	ug/L	
Spiked Amount	100.000	Range	82 - 120	Recovery	=	0.00%#
4) Toluene-d8 (Surr)	7.51	98	4138	0.16	ug/L	0.00
Spiked Amount	100.000			Recovery	=	0.16%
5) Ethylbenzene-d10 (Surr)	8.85	98	7142	1.74	ug/L	0.00
Spiked Amount	100.000			Recovery	=	1.74%
6) 4-Bromofluorobenzene (Surr)	9.90	95	4121	1.78	ug/L	0.00
Spiked Amount	100.000	Range	84 - 135	Recovery	=	1.78%#
Target Compounds						
7) MTBE	3.40	73	1635	0.35	ug/L	# 55
9) Cyclohexane	5.16	56	1503	0.20	ug/L	# 88
10) Benzene	5.51	78	6690	0.26	ug/L	# 90
11) 1,2-Dichloroethane	5.54	62	2067	0.12	ug/L	# 57
12) Toluene	7.57	92	4332	0.24	ug/L	# 91
14) Ethylbenzene	8.92	91	6910	0.21	ug/L	# 97
15) m&p-Xylene	9.03	106	5149	0.41	ug/L	91
16) o-Xylene	9.41	91	5248	0.21	ug/L	95
17) Isopropylbenzene	9.74	105	5175	0.21	ug/L	# 91
18) n-propylbenzene	10.11	91	6396	0.19	ug/L	98
19) 1,3,5-Trimethylbenzene	10.26	105	4147	0.34	ug/L	94
20) 1,2,4-Trimethylbenzene	10.57	105	4068	0.36	ug/L	# 86

Data File : I:\1\DATA\08172006\MS166702.D
Acq On : 17 Aug 2006 10:45 am
Sample : btex ical 0.2
Misc : 1369-34-1
MS Integration Params: rteint.p
Quant Time: Aug 17 16:00 2006

Vial: 4
Operator: jc
Inst : Instrumen
Multiplr: 1.00

Quant Results File: RBCA_08172006

Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
Title : RBCA plus by 8260B 08-17-2006
Last Update : Thu Aug 17 16:02:16 2006
Response via : Initial Calibration



Data File : I:\1\DATA\08172006\MS166703.D
 Acq On : 17 Aug 2006 11:07 am
 Sample : btex ical 0.5
 Misc. : 1369-34-2
 MS Integration Params: rteint.p
 Quant Time: Aug 17 16:00:50 2006

Vial: 5
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Results File: RBCA_08172006.RE

Quant Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260B 08-17-2006
 Last Update : Thu Aug 17 16:00:21 2006
 Response via : Initial Calibration
 Data Acq Meth : GBTEX

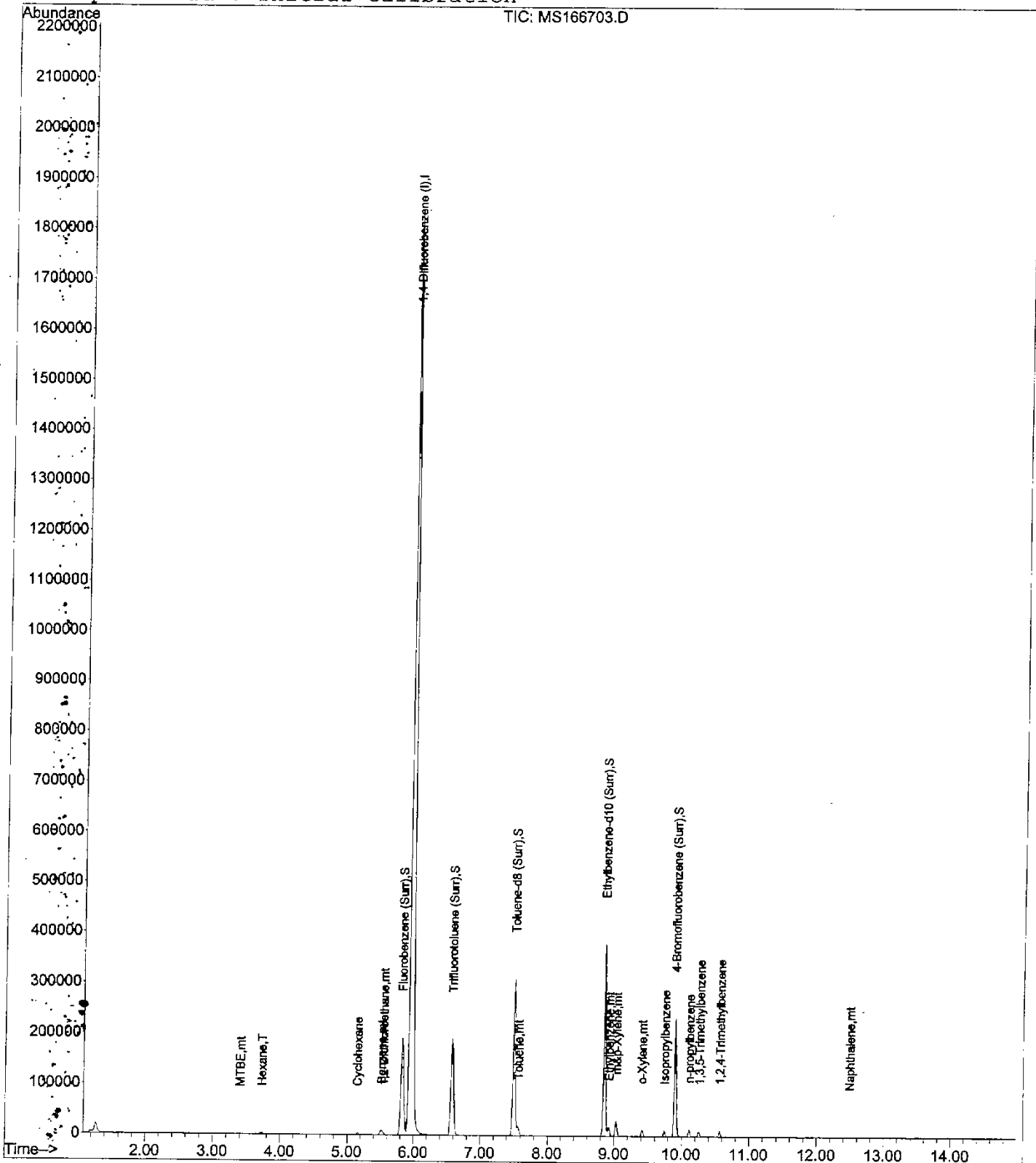
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Difluorobenzene (I)	5.96	114	2608185	100.00	ug/L	0.00
System Monitoring Compounds						
2) Fluorobenzene (Surr)	5.82	96	281495	10.63	ug/L	0.00
3) Trifluorotoluene (Surr)	6.57	146	134096	10.04	ug/L	0.00
Spiked Amount	100.000	Range	82 - 120	Recovery	=	10.04%#
4) Toluene-d8 (Surr)	7.51	98	270636	10.27	ug/L	0.00
Spiked Amount	100.000			Recovery	=	10.27%
5) Ethylbenzene-d10 (Surr)	8.85	98	323124	11.55	ug/L	0.00
Spiked Amount	100.000			Recovery	=	11.55%
6) 4-Bromofluorobenzene (Surr)	9.90	95	97408	11.42	ug/L	0.00
Spiked Amount	100.000	Range	84 - 135	Recovery	=	11.42%#
Target Compounds						
7) MTBE	3.40	73	3373	0.49	ug/L #	55
8) Hexane	3.72	56	1238	0.42	ug/L #	82
9) Cyclohexane	5.15	56	3385	0.44	ug/L	96
10) Benzene	5.51	78	12455	0.49	ug/L #	93
11) 1,2-Dichloroethane	5.54	62	3994	0.42	ug/L #	91
12) Toluene	7.57	92	8985	0.50	ug/L #	94
14) Ethylbenzene	8.92	91	15814	0.49	ug/L	98
15) m&p-Xylene	9.03	106	10772	0.87	ug/L	89
16) o-Xylene	9.41	91	11166	0.45	ug/L	97
17) Isopropylbenzene	9.74	105	10728	0.43	ug/L	97
18) n-propylbenzene	10.11	91	14507	0.44	ug/L	96
19) 1,3,5-Trimethylbenzene	10.26	105	9172	0.53	ug/L	96
20) 1,2,4-Trimethylbenzene	10.57	105	8568	0.53	ug/L	96
21) Naphthalene	12.50	128	597	0.17	ug/L #	68

Data File : I:\1\DATA\08172006\MS166703.D
 Acq On : 17 Aug 2006 11:07 am
 Sample : btex ical 0.5
 Misc : 1369-34-2
 MS Integration Params: rteint.p
 Quant Time: Aug 17 16:00 2006

Vial: 5
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Results File: RBCA_08172006

Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260B 08-17-2006
 Last Update : Thu Aug 17 16:02:16 2006
 Response via : Initial Calibration



Data File : I:\1\DATA\08172006\MS166704.D
 Acq On : 17 Aug 2006 11:30 am
 Sample : btex ical 1
 Misc : 1369-34-3
 MS Integration Params: rteint.p
 Quant Time: Aug 17 16:00:51 2006

Vial: 6
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Results File: RBCA_08172006.RE

Quant Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260B 08-17-2006
 Last Update : Thu Aug 17 16:00:21 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX

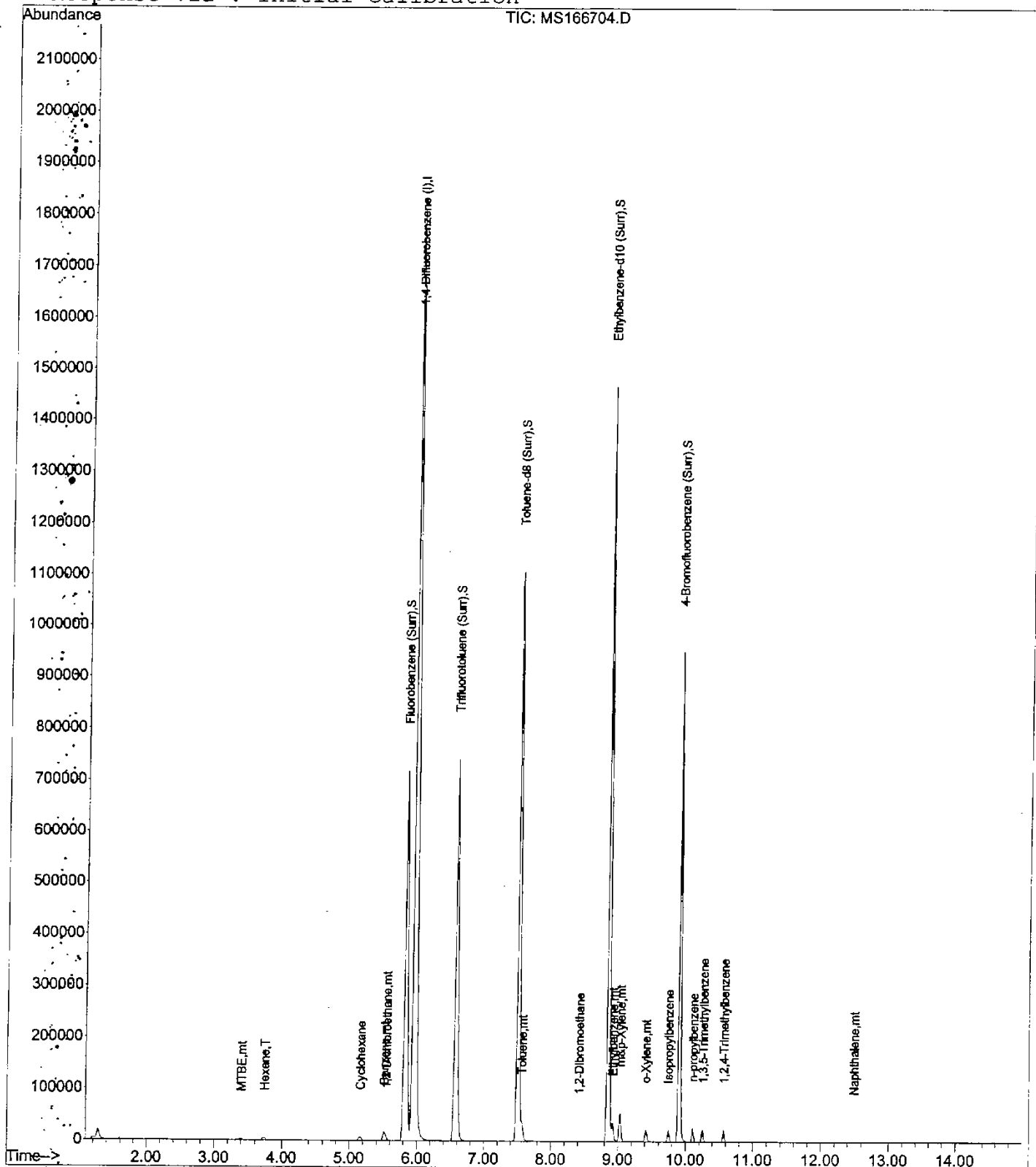
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	
1) 1,4-Difluorobenzene (I)	5.96	114	2603952	100.00	ug/L	0.00	
System Monitoring Compounds							
2) Fluorobenzene (Surr)	5.82	96	1024919	38.78	ug/L	0.00	
3) Trifluorotoluene (Surr)	6.57	146	503182	37.74	ug/L	0.00	
Spiked Amount	100.000	Range	82 - 120	Recovery	=	37.74%#	
4) Toluene-d8 (Surr)	7.51	98	1013541	38.53	ug/L	0.00	
Spiked Amount	100.000			Recovery	=	38.53%	
5) Ethylbenzene-d10 (Surr)	8.85	98	1236872	39.50	ug/L	0.00	
Spiked Amount	100.000			Recovery	=	39.50%	
6) 4-Bromofluorobenzene (Surr)	9.90	95	373389	39.39	ug/L	0.00	
Spiked Amount	100.000	Range	84 - 135	Recovery	=	39.39%#	
Target Compounds							
7) MTBE	3.40	73	6563	0.75	ug/L		Qvalue 91
8) Hexane	3.74	56	2151	0.72	ug/L	#	94
9) Cyclohexane	5.16	56	5506	0.72	ug/L	#	91
10) Benzene	5.51	78	20751	0.82	ug/L	#	98
11) 1,2-Dichloroethane	5.54	62	7632	0.98	ug/L	#	94
12) Toluene	7.57	92	15545	0.87	ug/L	#	98
13) 1,2-Dibromoethane	8.42	107	511	3.97	ug/L	#	93
14) Ethylbenzene	8.92	91	27372	0.85	ug/L		100
15) m&p-Xylene	9.03	106	19350	1.57	ug/L		92
16) o-Xylene	9.41	91	19860	0.80	ug/L		98
17) Isopropylbenzene	9.74	105	18552	0.74	ug/L		99
18) n-propylbenzene	10.11	91	25757	0.78	ug/L		99
19) 1,3,5-Trimethylbenzene	10.26	105	16176	0.80	ug/L		93
20) 1,2,4-Trimethylbenzene	10.57	105	14961	0.77	ug/L		94
21) Naphthalene	12.50	128	1035	0.20	ug/L	#	68

Data File : I:\1\DATA\08172006\MS166704.D
 Acq On : 17 Aug 2006 11:30 am
 Sample : btex ical 1
 Misc : 1369-34-3
 MS Integration Params: rteint.p
 Quant Time: Aug 17 16:00 2006

Vial: 6
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Results File: RBCA_08172006

Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260B 08-17-2006
 Last Update : Thu Aug 17 16:02:16 2006
 Response via : Initial Calibration



Data File : I:\1\DATA\08172006\MS166705.D
 Acq On : 17 Aug 2006 11:52 am
 Sample : btex ical 5
 Misc : 1369-34-4
 MS Integration Params: rteint.p
 Quant Time: Aug 17 16:00:52 2006

Vial: 7
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Results File: RBCA_08172006.RE

Quant Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260B 08-17-2006
 Last Update : Thu Aug 17 16:00:21 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX

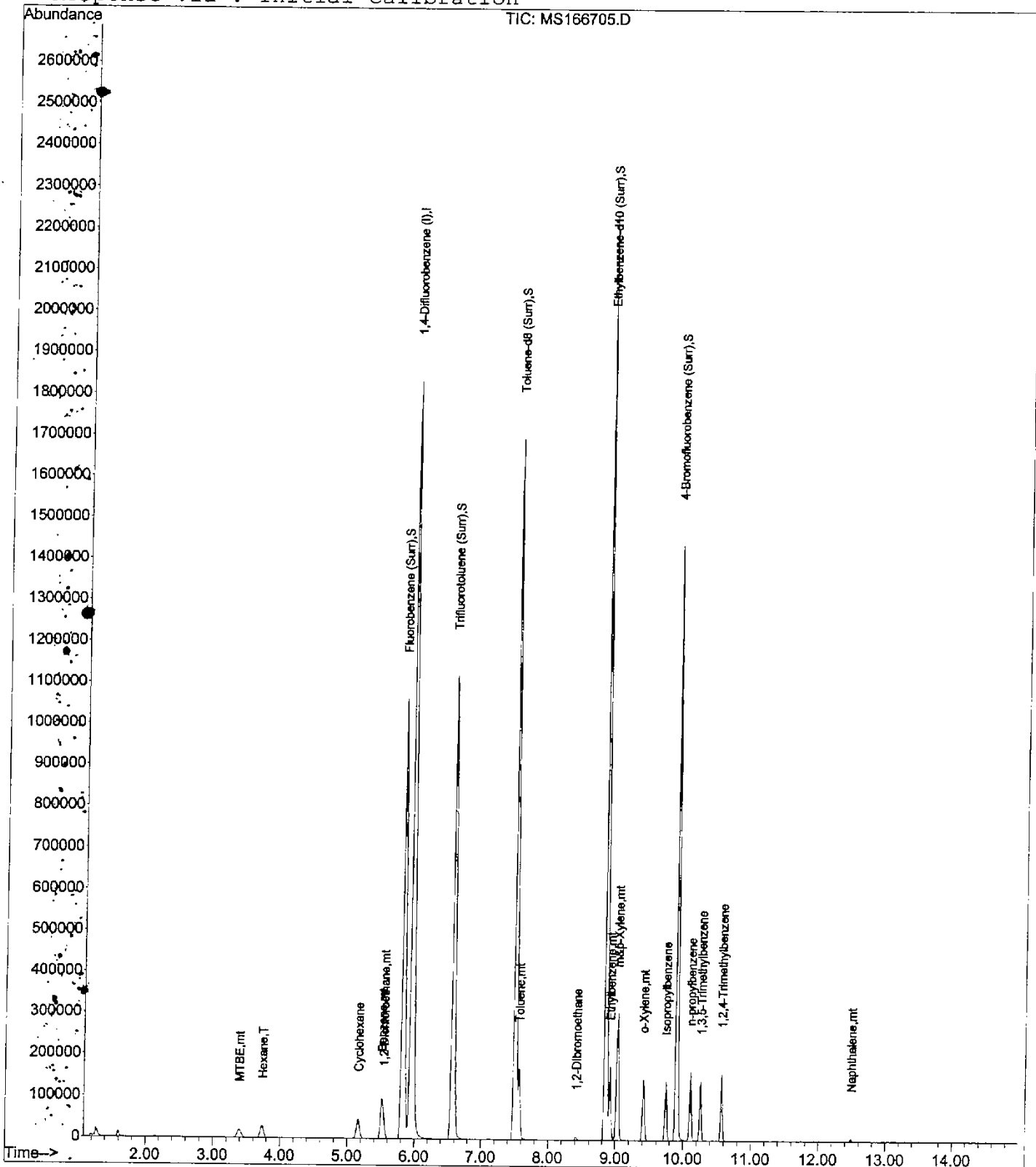
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Difluorobenzene (I)	5.96	114	2602620	100.00	ug/L	0.00
System Monitoring Compounds						
2) Fluorobenzene (Surr)	5.82	96	1527832	57.84	ug/L	0.00
3) Trifluorotoluene (Surr)	6.57	146	760414	57.06	ug/L	0.00
Spiked Amount 100.000	Range	82 - 120	Recovery	=	57.06%#	
4) Toluene-d8 (Surr)	7.51	98	1526834	58.07	ug/L	0.00
Spiked Amount 100.000			Recovery	=	58.07%	
5) Ethylbenzene-d10 (Surr)	8.85	98	1878380	58.75	ug/L	0.00
Spiked Amount 100.000			Recovery	=	58.75%	
6) 4-Bromofluorobenzene (Surr)	9.90	95	573175	59.12	ug/L	0.00
Spiked Amount 100.000	Range	84 - 135	Recovery	=	59.12%#	
Target Compounds						
7) MTBE	3.39	73	42895	3.68	ug/L	Qvalue 98
8) Hexane	3.74	56	14562	4.91	ug/L	98
9) Cyclohexane	5.16	56	35194	4.61	ug/L	97
10) Benzene	5.51	78	115136	4.54	ug/L	99
11) 1,2-Dichloroethane	5.54	62	39875	6.10	ug/L	94
12) Toluene	7.57	92	80780	4.54	ug/L	98
13) 1,2-Dibromoethane	8.42	107	6921	5.52	ug/L	# 97
14) Ethylbenzene	8.92	91	145778	4.53	ug/L	99
15) m&p-Xylene	9.03	106	106329	8.62	ug/L	96
16) o-Xylene	9.41	91	111979	4.50	ug/L	99
17) Isopropylbenzene	9.74	105	108603	4.34	ug/L	99
18) n-propylbenzene	10.11	91	150245	4.53	ug/L	99
19) 1,3,5-Trimethylbenzene	10.26	105	97743	3.90	ug/L	97
20) 1,2,4-Trimethylbenzene	10.57	105	93943	3.74	ug/L	95
21) Naphthalene	12.50	128	6882	0.66	ug/L	96

Data File : I:\1\DATA\08172006\MS166705.D
 Acq On : 17 Aug 2006 11:52 am
 Sample : btex ical 5
 Misc : 1369-34-4
 MS Integration Params: rteint.p
 Quant Time: Aug 17 16:00 2006

Vial: 7
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Results File: RBCA_08172006

Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260B 08-17-2006
 Last Update : Thu Aug 17 16:02:16 2006
 Response via : Initial Calibration



Data File : I:\1\DATA\08172006\MS166706.D
 Acq On : 17 Aug 2006 12:14 pm
 Sample : btex ical 10
 Misc : 1369-34-5
 MS Integration Params: rteint.p
 Quant Time: Aug 17 16:00:53 2006

Vial: 8
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Results File: RBCA_08172006.RE

Quant Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260B 08-17-2006
 Last Update : Thu Aug 17 16:00:21 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX

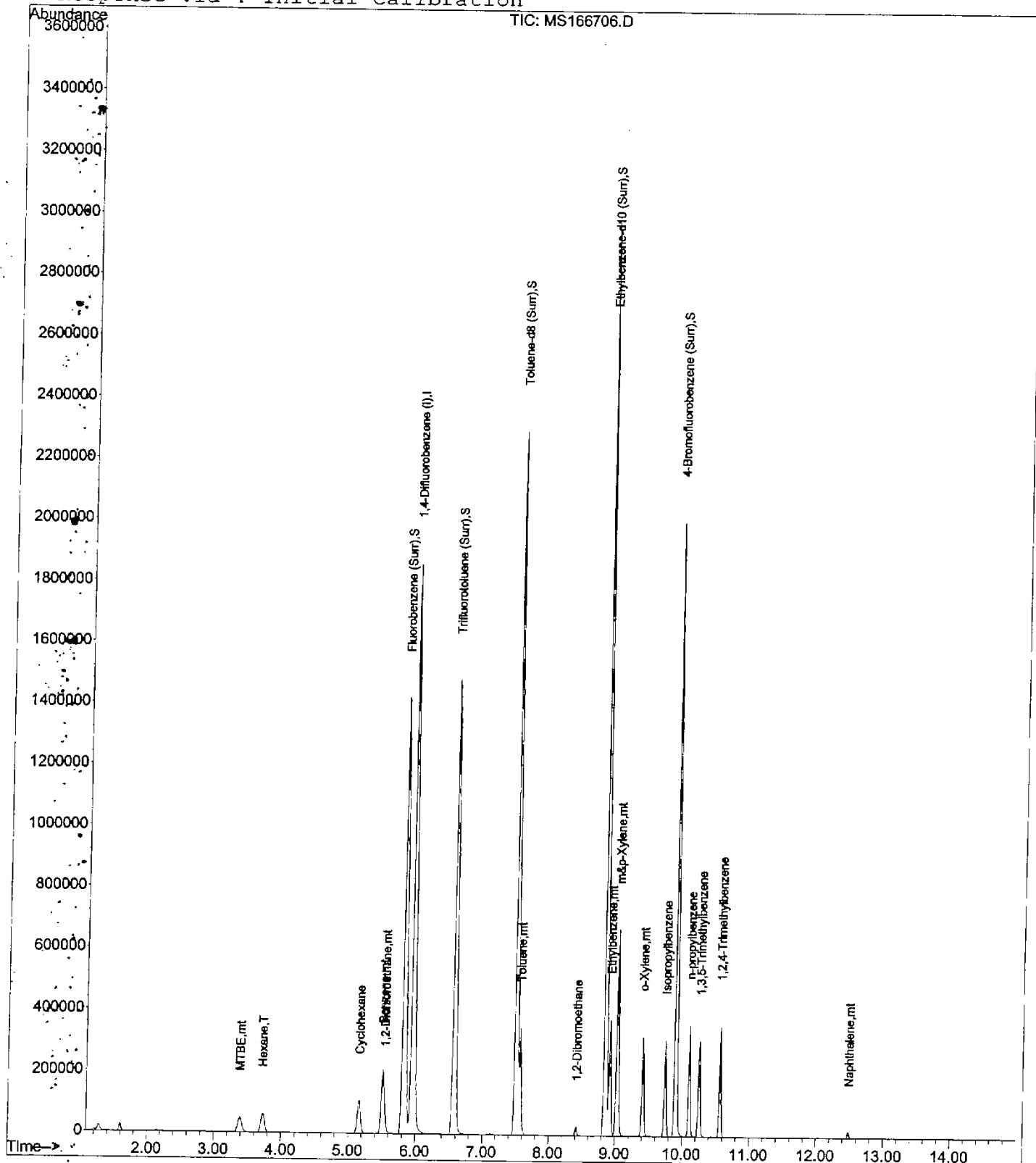
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene (I)	5.96	114	2630633	100.00	ug/L	0.00
System Monitoring Compounds						
2) Fluorobenzene (Surr)	5.82	96	2081383	77.96	ug/L	0.00
3) Trifluorotoluene (Surr)	6.57	146	1030454	76.50	ug/L	0.00
Spiked Amount	100.000	Range	82 - 120	Recovery	=	76.50%#
4) Toluene-d8 (Surr)	7.51	98	2066314	77.76	ug/L	0.00
Spiked Amount	100.000			Recovery	=	77.76%
5) Ethylbenzene-d10 (Surr)	8.85	98	2537102	77.38	ug/L	0.00
Spiked Amount	100.000			Recovery	=	77.38%
6) 4-Bromofluorobenzene (Surr)	9.90	95	772871	77.61	ug/L	0.00
Spiked Amount	100.000	Range	84 - 135	Recovery	=	77.61%#
Target Compounds						
7) MTBE	3.39	73	103625	8.50	ug/L	99
8) Hexane	3.72	56	30775	10.26	ug/L	97
9) Cyclohexane	5.16	56	79989	10.36	ug/L	97
10) Benzene	5.51	78	251811	9.83	ug/L	100
11) 1,2-Dichloroethane	5.54	62	87012	13.99	ug/L	94
12) Toluene	7.57	92	172781	9.61	ug/L	99
13) 1,2-Dibromoethane	8.42	107	23920	9.48	ug/L	97
14) Ethylbenzene	8.92	91	313017	9.62	ug/L	99
15) m&p-Xylene	9.03	106	231110	18.53	ug/L	98
16) o-Xylene	9.41	91	247514	9.84	ug/L	100
17) Isopropylbenzene	9.74	105	243273	9.61	ug/L	99
18) n-propylbenzene	10.11	91	327919	9.79	ug/L	99
19) 1,3,5-Trimethylbenzene	10.26	105	214839	8.27	ug/L	97
20) 1,2,4-Trimethylbenzene	10.57	105	209852	8.02	ug/L	97
21) Naphthalene	12.50	128	17386	1.48	ug/L	95

Data File : I:\1\DATA\08172006\MS166706.D
 Acq On : 17 Aug 2006 12:14 pm
 Sample : btex ical 10
 Misc : 1369-34-5
 MS: Integration Params: rteint.p
 Quant Time: Aug 17 16:00 2006

Vial: 8
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Results File: RBCA_08172006

Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260B 08-17-2006
 Last Update : Thu Aug 17 16:02:16 2006
 Response via : Initial Calibration



Data File : I:\1\DATA\08172006\MS166707.D
 Acq On : 17 Aug 2006 12:37 pm
 Sample : btex ical 25
 Misc : 1369-34-6
 MS Integration Params: rteint.p
 Quant Time: Aug 17 16:00:54 2006

Vial: 9
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Results File: RBCA_08172006.RES

Quant Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260B 08-17-2006
 Last Update : Thu Aug 17 16:00:21 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX

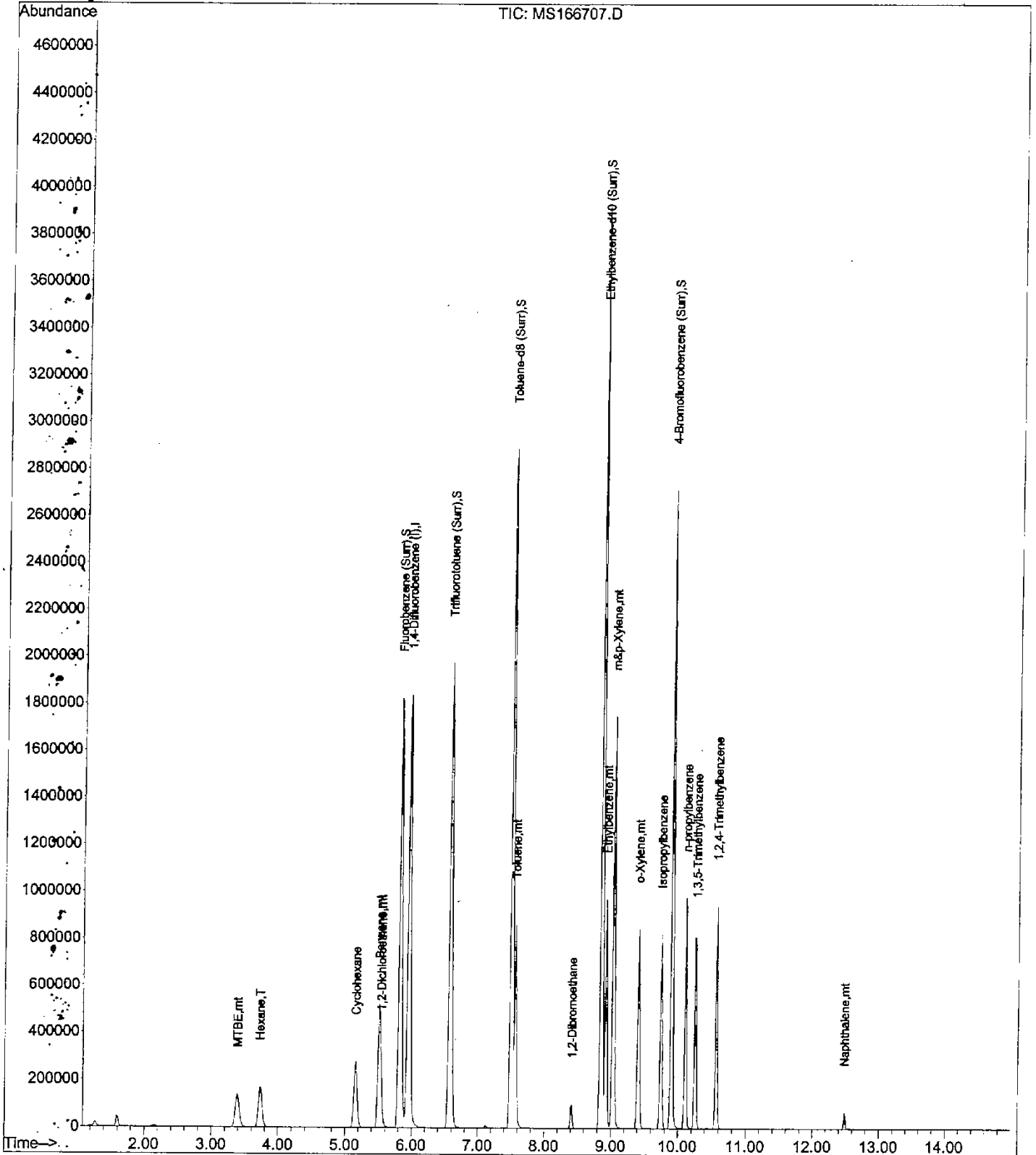
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Difluorobenzene (I)	5.96	114	2632049	100.00	ug/L	0.00
System Monitoring Compounds						
2) Fluorobenzene (Surr)	5.82	96	2675897	100.18	ug/L	0.00
3) Trifluorotoluene (Surr)	6.57	146	1355483	100.58	ug/L	0.00
Spiked Amount 100.000	Range	82 - 120	Recovery	=	100.58%	
4) Toluene-d8 (Surr)	7.51	98	2679787	100.79	ug/L	0.00
Spiked Amount 100.000			Recovery	=	100.79%	
5) Ethylbenzene-d10 (Surr)	8.85	98	3363193	101.01	ug/L	0.00
Spiked Amount 100.000			Recovery	=	101.01%	
6) 4-Bromofluorobenzene (Surr)	9.90	95	1024824	101.10	ug/L	0.00
Spiked Amount 100.000	Range	84 - 135	Recovery	=	101.10%	
Target Compounds						
7) MTBE	3.39	73	292612	23.61	ug/L	Qvalue 100
8) Hexane	3.72	56	86635	28.86	ug/L	100
9) Cyclohexane	5.16	56	210305	27.23	ug/L	98
10) Benzene	5.51	78	629363	24.56	ug/L	100
11) 1,2-Dichloroethane	5.54	62	179770	32.46	ug/L	# 91
12) Toluene	7.57	92	435725	24.23	ug/L	100
13) 1,2-Dibromoethane	8.42	107	84610	23.02	ug/L	97
14) Ethylbenzene	8.92	91	809175	24.85	ug/L	100
15) m&p-Xylene	9.03	106	609616	48.85	ug/L	97
16) o-Xylene	9.41	91	633602	25.18	ug/L	99
17) Isopropylbenzene	9.74	105	635446	25.10	ug/L	99
18) n-propylbenzene	10.11	91	877246	26.18	ug/L	99
19) 1,3,5-Trimethylbenzene	10.26	105	577239	21.90	ug/L	98
20) 1,2,4-Trimethylbenzene	10.57	105	580915	21.83	ug/L	98
21) Naphthalene	12.48	128	51903	4.16	ug/L	98

Data File : I:\1\DATA\08172006\MS166707.D
 Acq On : 17 Aug 2006 12:37 pm
 Sample : btex ical 25
 Misc : 1369-34-6
 MS Integration Params: rteint.p
 Quant Time: Aug 17 16:00 2006

Vial: 9
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Results File: RBCA_08172006

Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260B 08-17-2006
 Last Update : Thu Aug 17 16:02:16 2006
 Response via : Initial Calibration



Data File : I:\1\DATA\08172006\MS166708.D
 Acq On : 17 Aug 2006 1:00 pm
 Sample : btex ical 50
 Misc : 1369-34-7
 MS Integration Params: rteint.p
 Quant Time: Aug 17 16:00:55 2006

Vial: 10
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Results File: RBCA_08172006.RE

Quant Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260B 08-17-2006
 Last Update : Thu Aug 17 16:00:21 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX

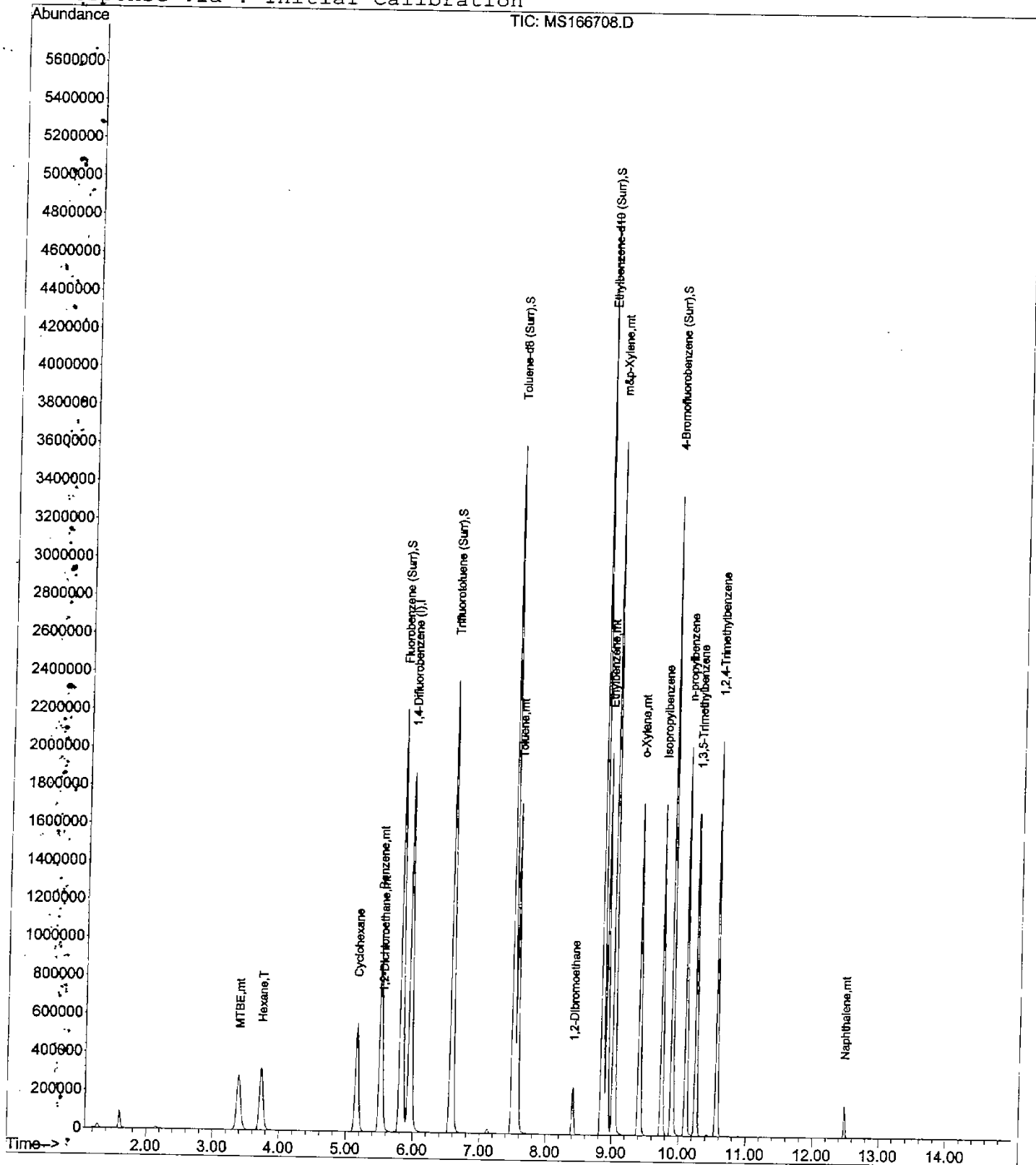
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene (I)	5.96	114	2682779	100.00	ug/L	0.00
System Monitoring Compounds						
2) Fluorobenzene (Surr)	5.82	96	3250056	119.37	ug/L	0.00
3) Trifluorotoluene (Surr)	6.57	146	1671074	121.65	ug/L	0.00
Spiked Amount	100.000	Range	82 - 120	Recovery	=	121.65%#
4) Toluene-d8 (Surr)	7.51	98	3265011	120.47	ug/L	0.00
Spiked Amount	100.000			Recovery	=	120.47%
5) Ethylbenzene-d10 (Surr)	8.85	98	4142748	120.75	ug/L	0.00
Spiked Amount	100.000			Recovery	=	120.75%
6) 4-Bromofluorobenzene (Surr)	9.90	95	1257713	120.18	ug/L	0.00
Spiked Amount	100.000	Range	84 - 135	Recovery	=	120.18%
Target Compounds						
7) MTBE	3.39	73	609726	48.03	ug/L	99
8) Hexane	3.74	56	163601	53.47	ug/L	99
9) Cyclohexane	5.16	56	427196	54.26	ug/L	99
10) Benzene	5.51	78	1278188	48.94	ug/L	100
11) 1,2-Dichloroethane	5.54	62	228712	43.60	ug/L #	87
12) Toluene	7.57	92	890159	48.56	ug/L	99
13) 1,2-Dibromoethane	8.42	107	210498	47.67	ug/L	97
14) Ethylbenzene	8.92	91	1676251	50.51	ug/L	99
15) m&p-Xylene	9.03	106	1331889	104.71	ug/L	97
16) o-Xylene	9.41	91	1326977	51.75	ug/L	98
17) Isopropylbenzene	9.74	105	1361280	52.75	ug/L	98
18) n-propylbenzene	10.11	91	1800294	52.71	ug/L	98
19) 1,3,5-Trimethylbenzene	10.26	105	1233145	45.69	ug/L	99
20) 1,2,4-Trimethylbenzene	10.57	105	1246559	45.73	ug/L	99
21) Naphthalene	12.48	128	125131	9.67	ug/L	98

Data File : I:\1\DATA\08172006\MS166708.D
Acq On : 17 Aug 2006 1:00 pm
Sample : btex ical 50
Misc : 1369-34-7
MS Integration Params: rteint.p
Quant Time: Aug 17 16:00 2006

Vial: 10
Operator: jc
Inst : Instrumen
Multiplr: 1.00

Quant Results File: RBCA_08172006

Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
Title : RBCA plus by 8260B 08-17-2006
Last Update : Thu Aug 17 16:02:16 2006
Response via : Initial Calibration



Data File : I:\1\DATA\08172006\MS166709.D
 Acq On : 17 Aug 2006 1:22 pm
 Sample : btex ical 75
 Misc : 169-34-8
 MS Integration Params: rteint.p
 Quant Time: Aug 17 16:00:56 2006

Vial: 11
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Results File: RBCA_08172006.RE

Quant Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260B 08-17-2006
 Last Update : Thu Aug 17 16:00:21 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX

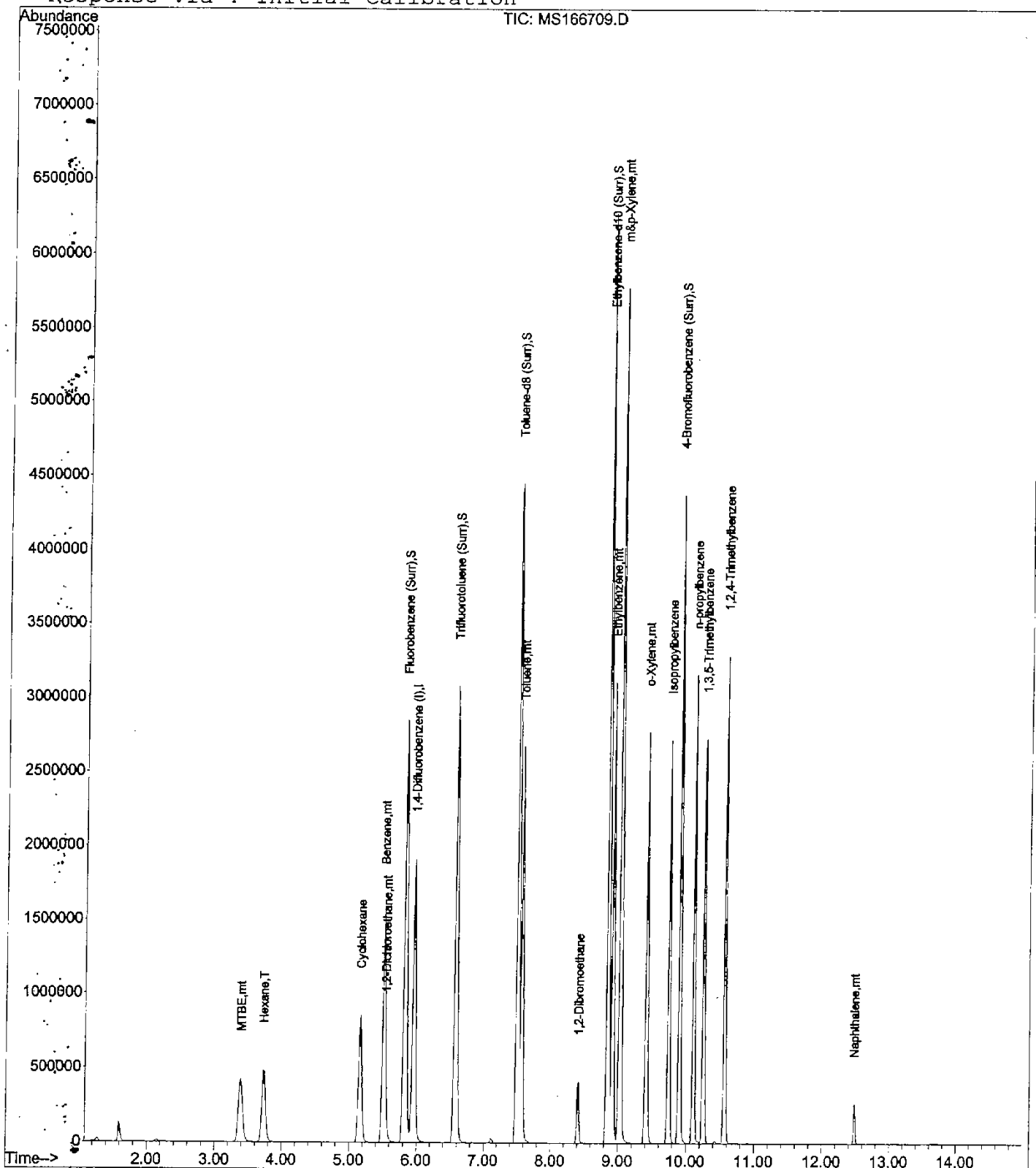
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene (I)	5.96	114	2740823	100.00	ug/L	0.00
System Monitoring Compounds						
2) Fluorobenzene (Surr)	5.82	96	4234342	152.23	ug/L	0.00
3) Trifluorotoluene (Surr)	6.57	146	2198630	156.66	ug/L	0.00
Spiked Amount	100.000	Range	82 - 120	Recovery	=	156.66%#
4) Toluene-d8 (Surr)	7.51	98	4240553	153.16	ug/L	0.00
Spiked Amount	100.000			Recovery	=	153.16%
5) Ethylbenzene-d10 (Surr)	8.85	98	5422390	152.26	ug/L	0.00
Spiked Amount	100.000			Recovery	=	152.26%
6) 4-Bromofluorobenzene (Surr)	9.90	95	1660664	152.27	ug/L	0.00
Spiked Amount	100.000	Range	84 - 135	Recovery	=	152.27%#
Target Compounds						
7) MTBE	3.39	73	942031	72.53	ug/L	99
8) Hexane	3.72	56	250440	80.12	ug/L	99
9) Cyclohexane	5.16	56	648982	80.69	ug/L	100
10) Benzene	5.51	78	1968559	73.78	ug/L	99
11) 1,2-Dichloroethane	5.54	62	274118	55.71	ug/L #	83
12) Toluene	7.57	92	1388885	74.17	ug/L	100
13) 1,2-Dibromoethane	8.42	107	353906	71.77	ug/L	97
14) Ethylbenzene	8.92	91	2615600	77.14	ug/L	98
15) m&p-Xylene	9.03	106	2140492	164.72	ug/L	96
16) o-Xylene	9.41	91	2095048	79.97	ug/L	97
17) Isopropylbenzene	9.74	105	2156171	81.78	ug/L	97
18) n-propylbenzene	10.11	91	2842049	81.45	ug/L	97
19) 1,3,5-Trimethylbenzene	10.26	105	1963349	71.11	ug/L	100
20) 1,2,4-Trimethylbenzene	10.57	105	2008393	72.00	ug/L	98
21) Naphthalene	12.48	128	196153	14.77	ug/L	98

Data File : I:\1\DATA\08172006\MS166709.D
Acq On : 17 Aug 2006 1:22 pm
Sample : btex ical 75
Misc : 169-34-8
MS Integration Params: rteint.p
Quant Time: Aug 17 16:00 2006

Vial: 11
Operator: jc
Inst : Instrumen
Multiplr: 1.00

Quant Results File: RBCA_08172006

Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
Title : RBCA plus by 8260B 08-17-2006
Last Update : Thu Aug 17 16:02:16 2006
Response via : Initial Calibration



Data File : I:\1\DATA\08172006\MS166710.D
 Acq On : 17 Aug 2006 1:45 pm
 Sample : btex ical 100
 Misc : 1369-34-9
 MS Integration Params: rteint.p
 Quant Time: Aug 17 16:00:57 2006

Vial: 12
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Results File: RBCA_08172006.RE

Quant Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260B 08-17-2006
 Last Update : Thu Aug 17 16:00:21 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX

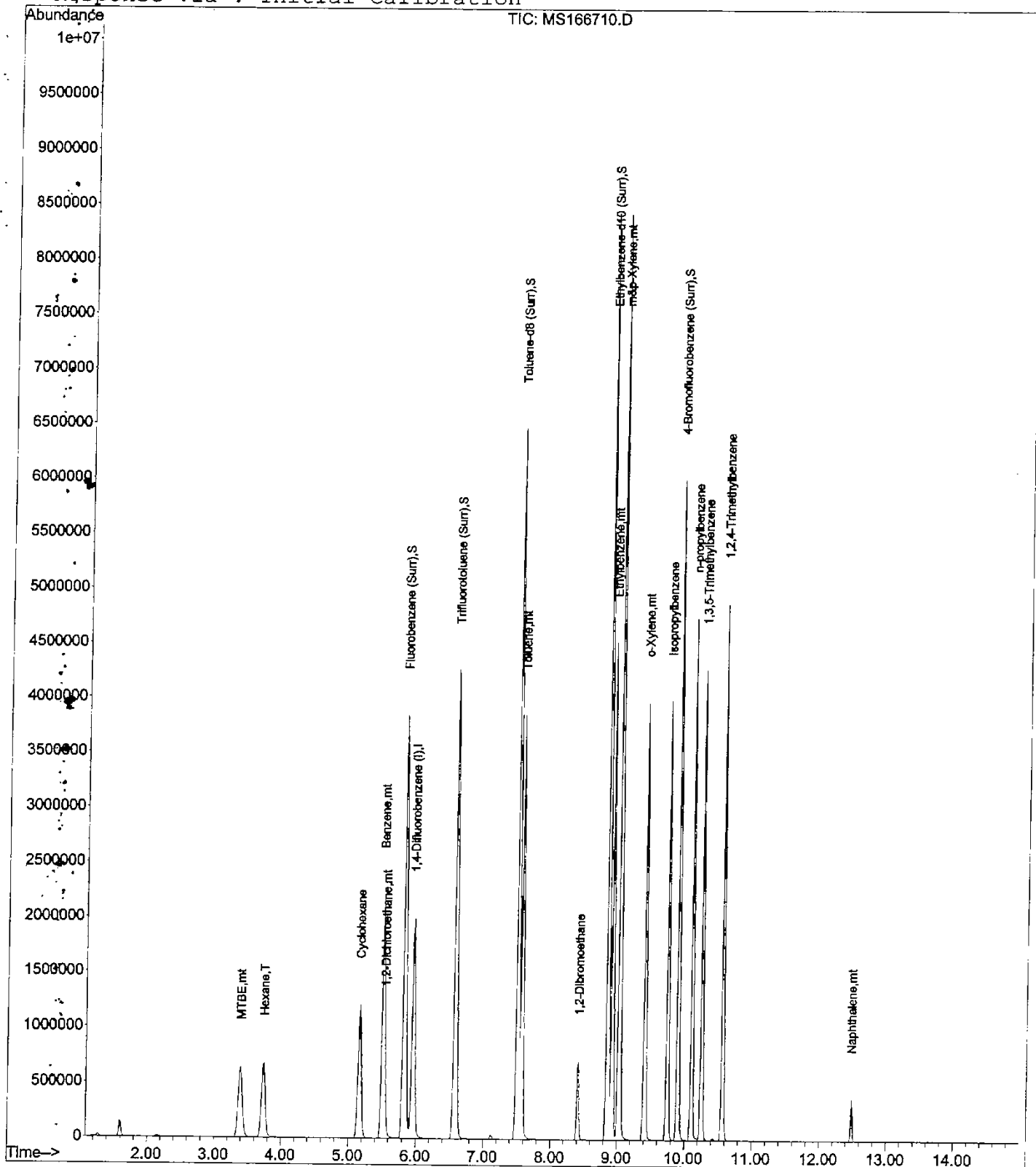
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Difluorobenzene (I)	5.96	114	2827328	100.00	ug/L	0.00
System Monitoring Compounds						
2) Fluorobenzene (Surr)	5.82	96	5835843	203.39	ug/L	0.00
3) Trifluorotoluene (Surr)	6.57	146	3130749	216.26	ug/L	0.00
Spiked Amount	100.000	Range	82 - 120	Recovery	=	216.26%#
4) Toluene-d8 (Surr)	7.51	98	5922986	207.38	ug/L	0.00
Spiked Amount	100.000			Recovery	=	207.38%
5) Ethylbenzene-d10 (Surr)	8.85	98	7462534	198.78	ug/L	0.00
Spiked Amount	100.000			Recovery	=	198.78%
6) 4-Bromofluorobenzene (Surr)	9.90	95	2299044	198.90	ug/L	0.00
Spiked Amount	100.000	Range	84 - 135	Recovery	=	198.90%#
Target Compounds						
7) MTBE	3.39	73	1406177	104.86	ug/L	Qvalue 98
8) Hexane	3.74	56	347523	107.78	ug/L	99
9) Cyclohexane	5.16	56	920078	110.89	ug/L	99
10) Benzene	5.51	78	2835216	103.01	ug/L	99
11) 1,2-Dichloroethane	5.54	62	276662	53.73	ug/L	# 75
12) Toluene	7.57	92	2033287	105.26	ug/L	100
13) 1,2-Dibromoethane	8.42	107	594254	105.97	ug/L	97
14) Ethylbenzene	8.92	91	3854819	110.21	ug/L	97
15) m&p-Xylene	9.03	106	3191134	238.06	ug/L	93
16) o-Xylene	9.41	91	3052063	112.93	ug/L	97
17) Isopropylbenzene	9.74	105	3216002	118.25	ug/L	96
18) n-propylbenzene	10.11	91	4170195	115.85	ug/L	96
19) 1,3,5-Trimethylbenzene	10.26	105	2948607	103.44	ug/L	98
20) 1,2,4-Trimethylbenzene	10.57	105	2953589	102.56	ug/L	100
21) Naphthalene	12.48	128	285341	20.77	ug/L	98

Data File : I:\1\DATA\08172006\MS166710.D
Acq On : 17 Aug 2006 1:45 pm
Sample : btex ical 100
Misc : 1369-34-9
MS Integration Params: rteint.p
Quant Time: Aug 17 16:00 2006

Vial: 12
Operator: jc
Inst : Instrumen
Multiplr: 1.00

Quant Results File: RBCA_08172006

Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
Title : RBCA plus by 8260B 08-17-2006
Last Update : Thu Aug 17 16:02:16 2006
Response via : Initial Calibration



Data File : I:\1\DATA\08172006\MS166711.D
 Acq On : 17 Aug 2006 2:07 pm
 Sample : btex ical 150
 Misc : 1369-34-10
 MS Integration Params: rteint.p
 Quant Time: Aug 17 16:00:58 2006

Vial: 13
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Results File: RBCA_08172006.RE

Quant Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260B 08-17-2006
 Last Update : Thu Aug 17 16:00:21 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Difluorobenzene (I)	5.96	114	2889690	100.00	ug/L	0.00

System Monitoring Compounds

2) Fluorobenzene (Surr)	5.83	96	9719	0.33	ug/L	0.01
3) Trifluorotoluene (Surr)	6.59	146	6059	0.41	ug/L	0.01
Spiked Amount	100.000	Range	82 - 120	Recovery	=	0.41%#
4) Toluene-d8 (Surr)	7.51	98	11254	0.39	ug/L	0.00
Spiked Amount	100.000			Recovery	=	0.39%
5) Ethylbenzene-d10 (Surr)	8.85	98	26500	2.26	ug/L	0.00
Spiked Amount	100.000			Recovery	=	2.26%
6) 4-Bromofluorobenzene (Surr)	9.90	95	10316	2.32	ug/L	0.00
Spiked Amount	100.000	Range	84 - 135	Recovery	=	2.32%#

Target Compounds

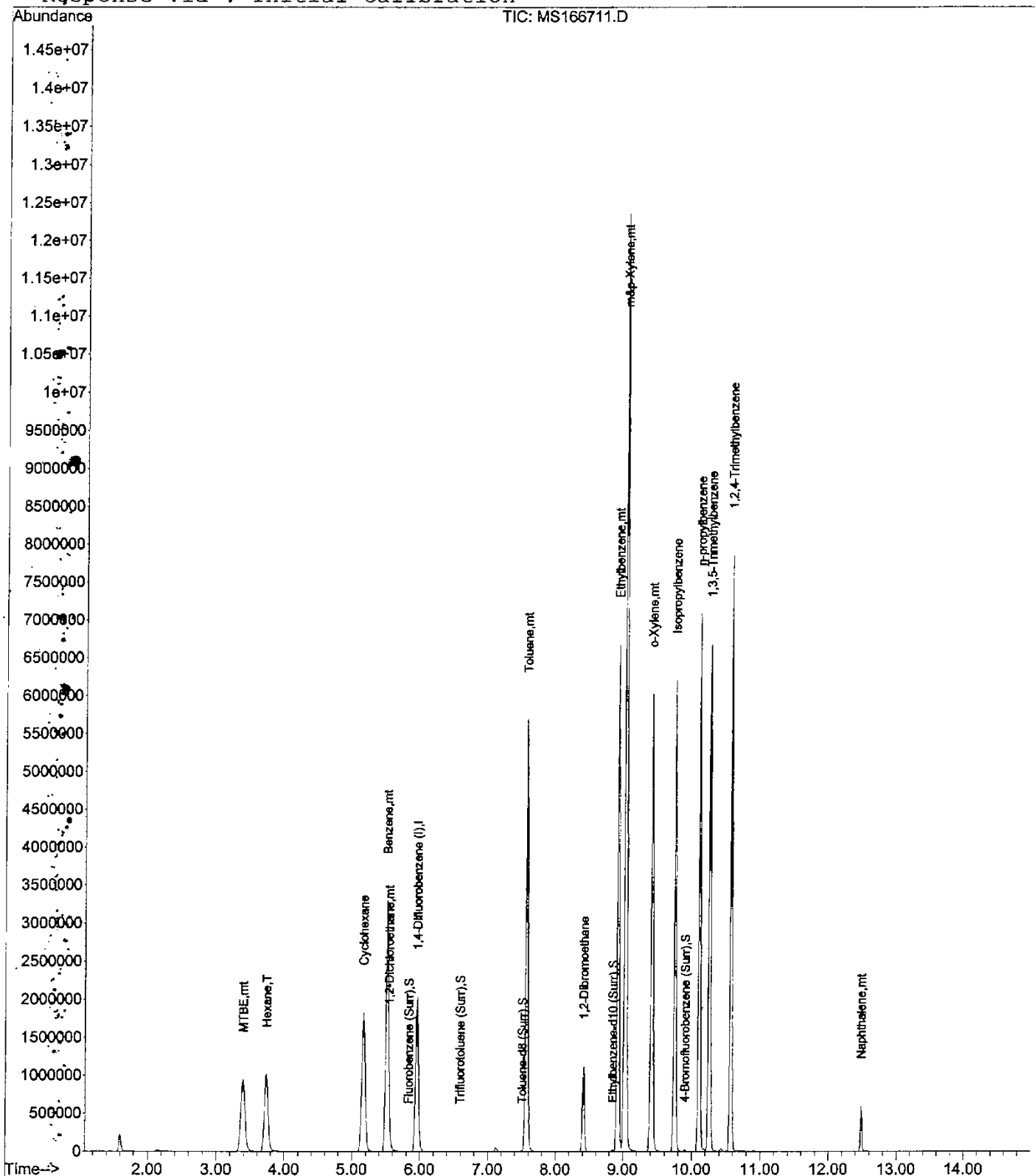
	R.T.	QIon	Response	Conc	Units	Qvalue
7) MTBE	3.39	73	2110701	153.90	ug/L	98
8) Hexane	3.74	56	527152	159.96	ug/L	99
9) Cyclohexane	5.16	56	1399741	165.07	ug/L	98
10) Benzene	5.51	78	4310187	153.22	ug/L	98
11) 1,2-Dichloroethane	5.54	62	311828	63.99	ug/L #	68
12) Toluene	7.57	92	3127540	158.41	ug/L	99
13) 1,2-Dibromoethane	8.42	107	942472	148.56	ug/L	97
14) Ethylbenzene	8.92	91	5908507	165.28	ug/L	95
15) m&p-Xylene	9.03	106	4964998	362.40	ug/L	90
16) o-Xylene	9.41	91	4706788	170.40	ug/L	94
17) Isopropylbenzene	9.74	105	5073822	182.53	ug/L #	95
18) n-propylbenzene	10.11	91	6392939	173.77	ug/L	94
19) 1,3,5-Trimethylbenzene	10.26	105	4685156	160.72	ug/L	97
20) 1,2,4-Trimethylbenzene	10.57	105	4747560	161.17	ug/L	98
21) Naphthalene	12.48	128	442006	31.42	ug/L	97

Data File : I:\1\DATA\08172006\MS166711.D
Acq On : 17 Aug 2006 2:07 pm
Sample : btex ical 150
Misc : 1369-34-10
MS Integration Params: rteint.p
Quant Time: Aug 17 16:00 2006

Vial: 13
Operator: jc
Inst : Instrumen
Multiplr: 1.00

Quant Results File: RBCA_08172006

Method : I:\1\METHODS\RBCA 08172006.M (RTE Integrator)
Title : RBCA plus by 8260B 08-17-2006
Last Update : Thu Aug 17 16:02:16 2006
Response via : Initial Calibration



Data File : I:\1\DATA\08172006\MS166713.D
 Acq On : 17 Aug 2006 2:52 pm
 Sample : btex icv 25
 Misc : 1369-34-11

Vial: 15
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

MS Integration Params: rteint.p
 Quant Time: Aug 17 16:07:43 2006

Quant Results File: RBCA_08172006.RE

Quant Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260B 08-17-2006
 Last Update : Thu Aug 17 16:02:16 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	
1) 1,4-Difluorobenzene (I)	5.96	114	2814201	100.00	ug/L	0.00	
System Monitoring Compounds							
2) Fluorobenzene (Surr)	5.82	96	2964787	103.81	ug/L	0.00	
3) Trifluorotoluene (Surr)	6.57	146	1487865	103.25	ug/L	0.00	
Spiked Amount	100.000	Range	82 - 120	Recovery	=	103.25%	
4) Toluene-d8 (Surr)	7.51	98	3080740	108.37	ug/L	0.00	
Spiked Amount	100.000			Recovery	=	108.37%	
5) Ethylbenzene-d10 (Surr)	8.85	98	4051831	113.05	ug/L	0.00	
Spiked Amount	100.000			Recovery	=	113.05%	
6) 4-Bromofluorobenzene (Surr)	9.90	95	1239691	113.43	ug/L	0.00	
Spiked Amount	100.000	Range	84 - 135	Recovery	=	113.43%	
Target Compounds							
7) MTBE	3.39	73	318453	24.03	ug/L		Qvalue 97
8) Hexane	3.74	56	76175	23.73	ug/L		99
9) Cyclohexane	5.16	56	209892	25.42	ug/L		99
10) Benzene	5.51	78	656138	23.95	ug/L		99
11) 1,2-Dichloroethane	5.54	62	185925	31.14	ug/L		93
12) Toluene	7.57	92	464529	24.16	ug/L		98
13) 1,2-Dibromoethane	8.42	107	121166	29.10	ug/L		96
14) Ethylbenzene	8.92	91	862187	24.77	ug/L		99
15) m&p-Xylene	9.03	106	665086	49.85	ug/L		99
16) o-Xylene	9.41	91	687773	25.57	ug/L		98
17) Isopropylbenzene	9.74	105	755572	27.91	ug/L		98
18) n-propylbenzene	10.11	91	945074	26.38	ug/L		97
19) 1,3,5-Trimethylbenzene	10.26	105	632836	22.45	ug/L		100
20) 1,2,4-Trimethylbenzene	10.57	105	641733	22.55	ug/L		98
21) Naphthalene	12.48	128	358931	26.22	ug/L		97

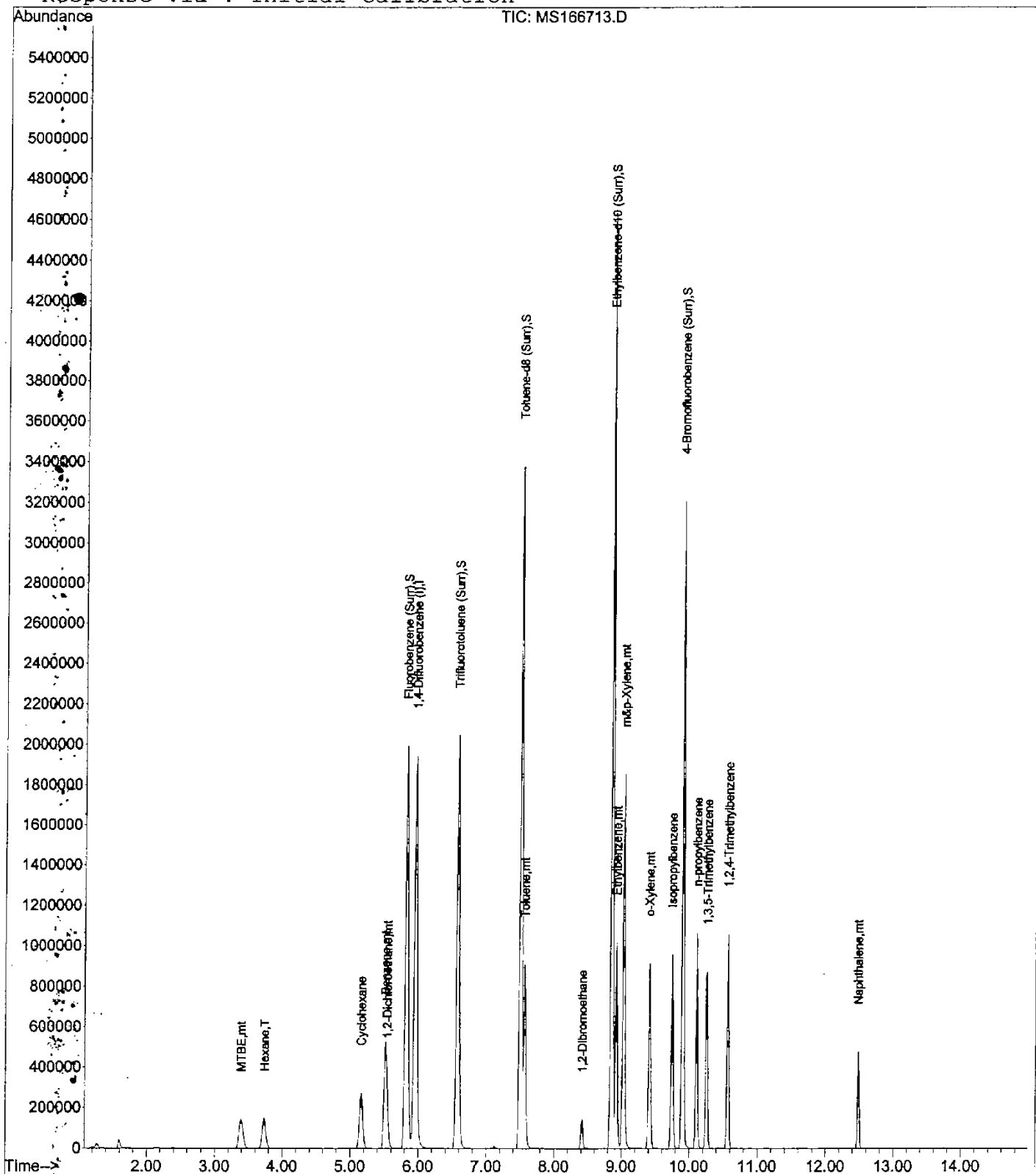
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : I:\1\DATA\08172006\MS166713.D
 Acq On : 17 Aug 2006 2:52 pm
 Sample : btex icv 25
 Misc : 1369-34-11
 MS Integration Params: rteint.p
 Quant Time: Aug 17 16:07 2006

Vial: 15
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Results File: RBCA_08172006

Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260B 08-17-2006
 Last Update : Thu Aug 17 16:02:16 2006
 Response via : Initial Calibration



Data File : I:\1\DATA\08172006\MS166713.D
 Acq On : 17 Aug 2006 2:52 pm
 Sample : btex icv 25
 Misc : 1369-34-11
 MS Integration Params: rteint.p

Vial: 15
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260E 08-17-2006
 Last Update : Thu Aug 17 16:02:16 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 : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev (min)
1 I	1,4-Difluorobenzene (I)	100.000	100.000	0.0	107	0.00
2 S	Fluorobenzene (Surr)	100.000	103.808	-3.8	111	0.00
3 S	Trifluorotoluene (Surr)	100.000	103.253	-3.3	110	0.00
4 S	Toluene-d8 (Surr)	100.000	108.366	-8.4	115	0.00
5 S	Ethylbenzene-d10 (Surr)	100.000	113.052	-13.1	120	0.00
6 S	4-Bromofluorobenzene (Surr)	100.000	113.429	-13.4	121	0.00
7 mt	MTBE	25.000	24.025	3.9	109	0.00
8 T	Hexane	25.000	23.734	5.1	88	0.01
9	Cyclohexane	25.000	25.416	-1.7	100	0.00
10 mt	Benzene	25.000	23.950	4.2	104	0.00
11 mt	1,2-Dichloroethane	25.000	31.137	-24.5#	103	0.00
12 mt	Toluene	25.000	24.159	3.4	107	0.00
13	1,2-Dibromoethane	25.000	29.102	-16.4	143	0.00
14 mt	Ethylbenzene	25.000	24.765	0.9	107	0.00
15 mt	m&p-Xylene	50.000	49.847	0.3	109	0.00
16 mt	o-Xylene	25.000	25.568	-2.3	109	0.00
17	Isopropylbenzene	25.000	27.910	-11.6	119	0.00
18	n-propylbenzene	25.000	26.378	-5.5	108	0.00
19	1,3,5-Trimethylbenzene	25.000	22.448	10.2	110	0.00
20	1,2,4-Trimethylbenzene	25.000	22.546	9.8	110	0.00
21 mt	Naphthalene	5.000	26.219	-424.4#	692	0.00

Evaluate Continuing Calibration Report

Data File : I:\1\DATA\08172006\MS166713.D
 Acq On : 17 Aug 2006 2:52 pm
 Sample : btex icv 25
 Misc : 1369-34-11

Vial: 15
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

MS Integration Params: rteint.p

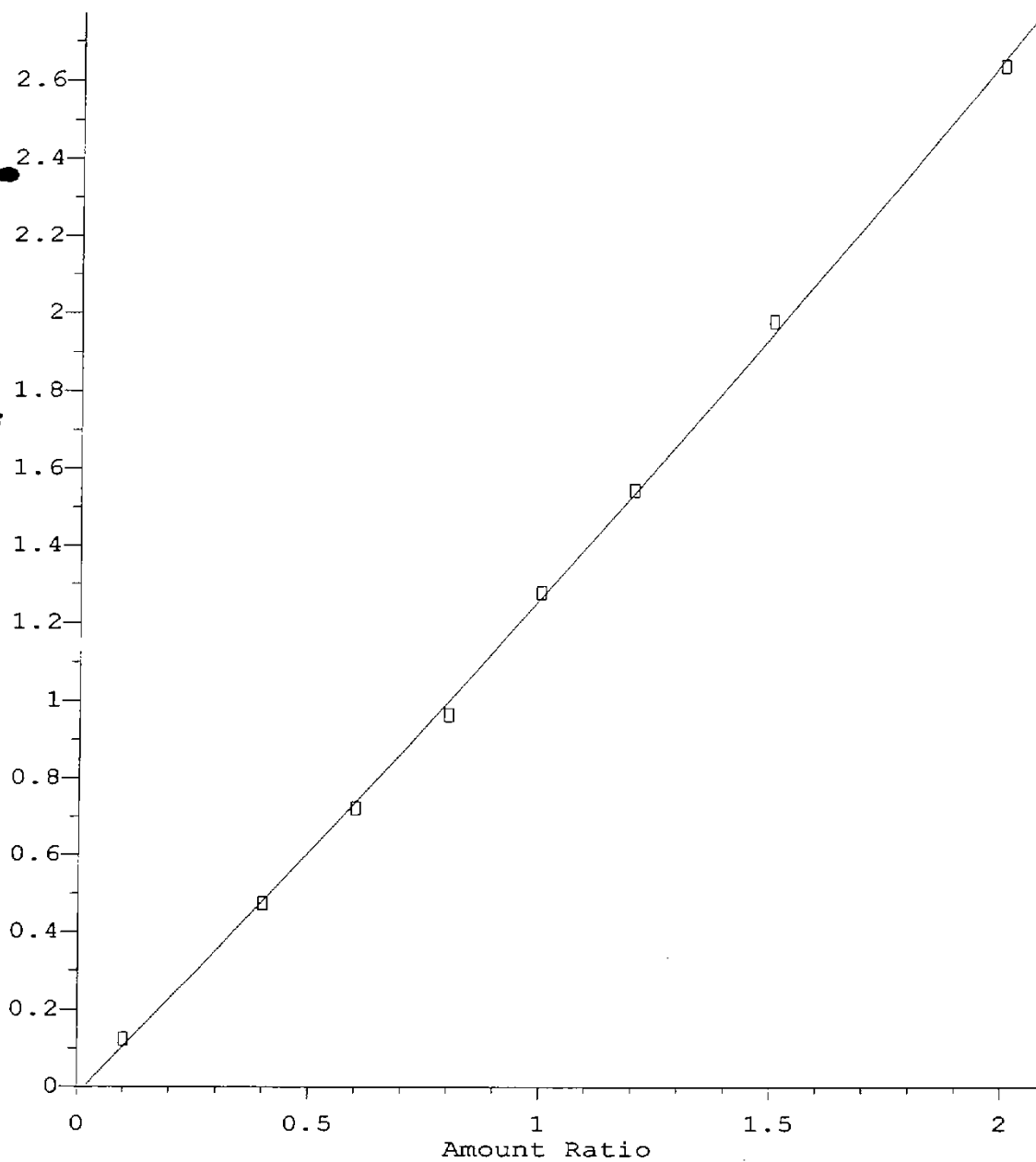
Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260B 08-17-2006
 Last Update : Thu Aug 17 16:02:16 2006
 Response via : Multiple Level Calibration

Min RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max RRF Dev : 20% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
1 I 1,4-Difluorobenzene (I)	1.000	1.000	0.0	107	0.00
2 S Fluorobenzene (Surr)	1.015	1.054	-3.8	111	0.00
3 S Trifluorotoluene (Surr)	0.512	0.529	-3.3	110	0.00
4 S Toluene-d8 (Surr)	1.010	1.095	-8.4	115	0.00
5 S Ethylbenzene-d10 (Surr)	1.255	1.440	-14.7	120	0.00
6 S 4-Bromofluorobenzene (Surr)	0.382	0.441	-15.4	121	0.00
7 mt MTBE	0.389	0.453	-16.5	109	0.00
8 T Hexane	0.114	0.108	5.3	88	0.01
9 Cyclohexane	0.293	0.298	-1.7	100	0.00
10 mt Benzene	0.973	0.933	4.1	104	0.00
11 mt 1,2-Dichloroethane	0.238	0.264	-10.9	103	0.00
12 mt Toluene	0.683	0.660	3.4	107	0.00
13 1,2-Dibromoethane	0.131	0.172	-31.3#	143	0.00
14 mt Ethylbenzene	1.237	1.225	1.0	107	0.00
15 mt m&p-Xylene	0.474	0.473	0.2	109	0.00
16 mt o-Xylene	0.956	0.978	-2.3	109	0.00
17 Isopropylbenzene	0.962	1.074	-11.6	119	0.00
18 n-propylbenzene	1.273	1.343	-5.5	108	0.00
19 1,3,5-Trimethylbenzene	0.856	0.899	-5.0	110	0.00
20 1,2,4-Trimethylbenzene	0.846	0.912	-7.8	110	0.00
21 mt Naphthalene	0.375	2.551	-580.3#	692#	0.00

Ethylbenzene-d10 (Surr)

Response Ratio

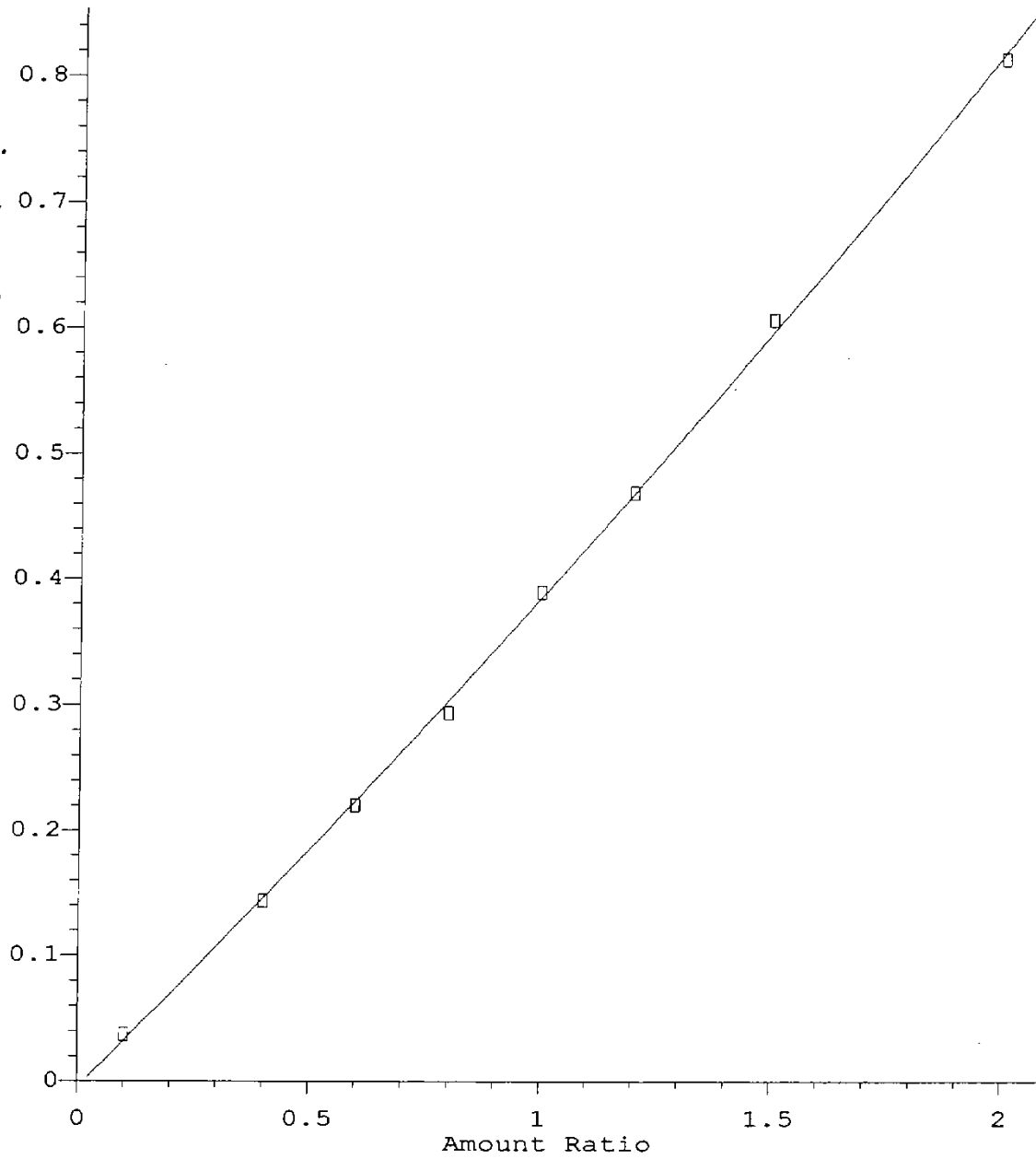


$R = 5.50e-002 A^2 + 1.23e+000 A - 1.87e-002$
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic

Method Name: I:\1\METHODS\RBCA_08172006.M
Calibration Table Last Updated: Thu Aug 17 16:02:16 2006

4-Bromofluorobenzene (Surr)

Response Ratio

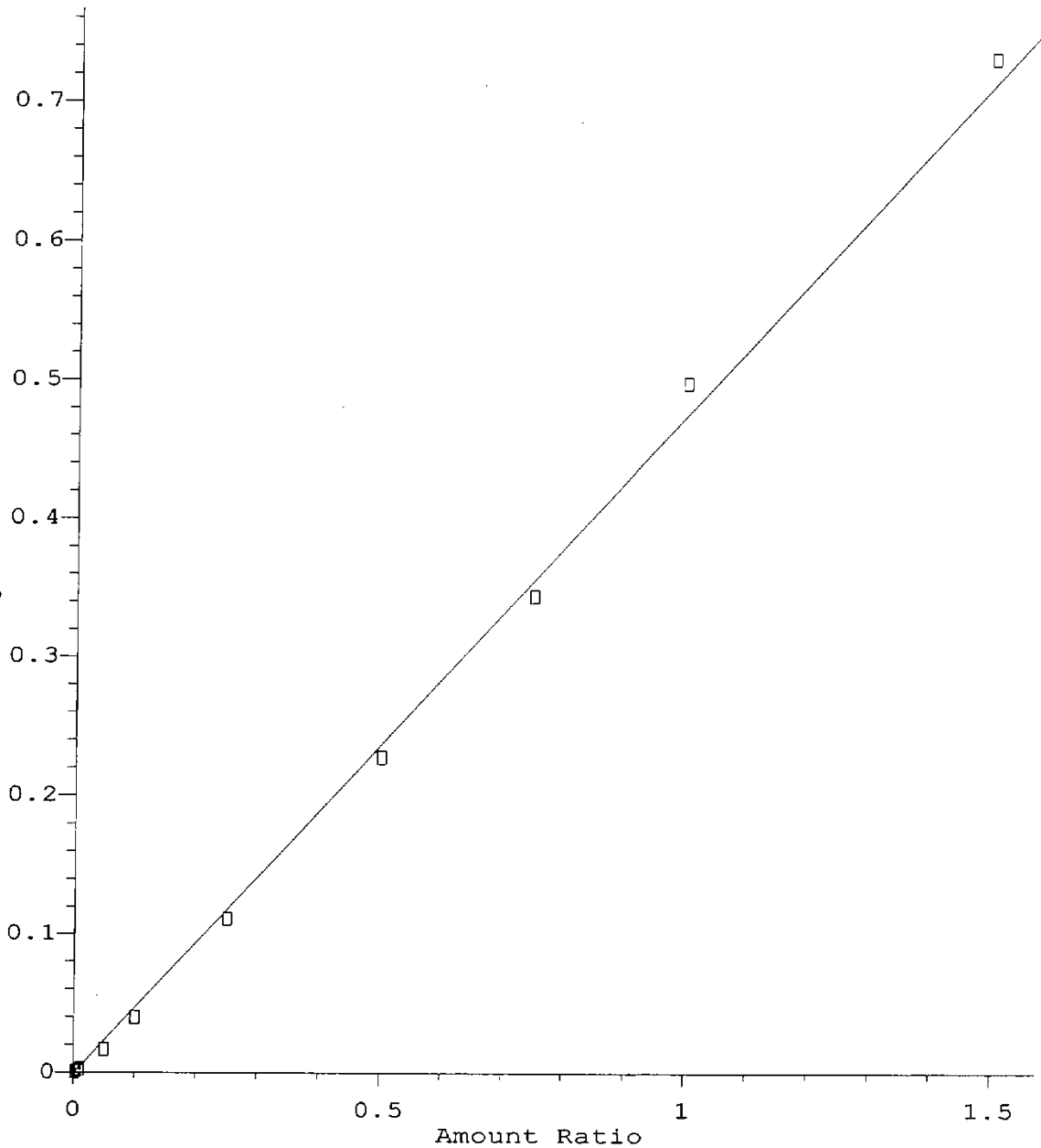


$R = 2.17e-002 A^2 + 3.68e-001 A - 4.99e-003$
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic

Method Name: I:\1\METHODS\RBCA_08172006.M
Calibration Table Last Updated: Thu Aug 17 16:02:16 2006

MTBE

Response Ratio

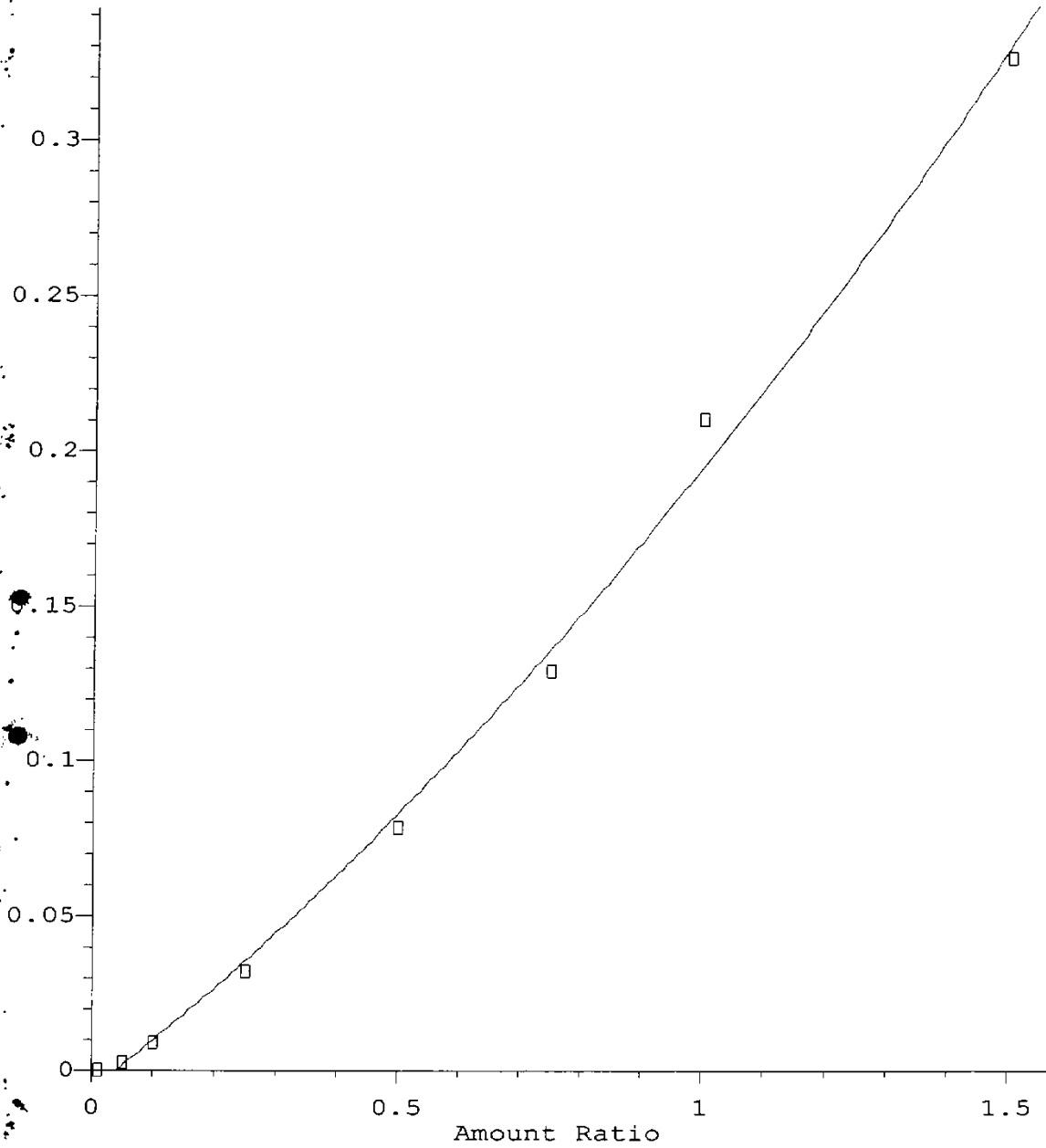


Resp Ratio = 4.75e-001 * Amt - 1.03e-003
Coef of Det (r^2) = 0.997 Curve Fit: wlr(1/a)

Method Name: I:\1\METHODS\RBCA_08172006.M
Calibration Table Last Updated: Thu Aug 17 16:02:16 2006

1,2-Dibromoethane

Response Ratio

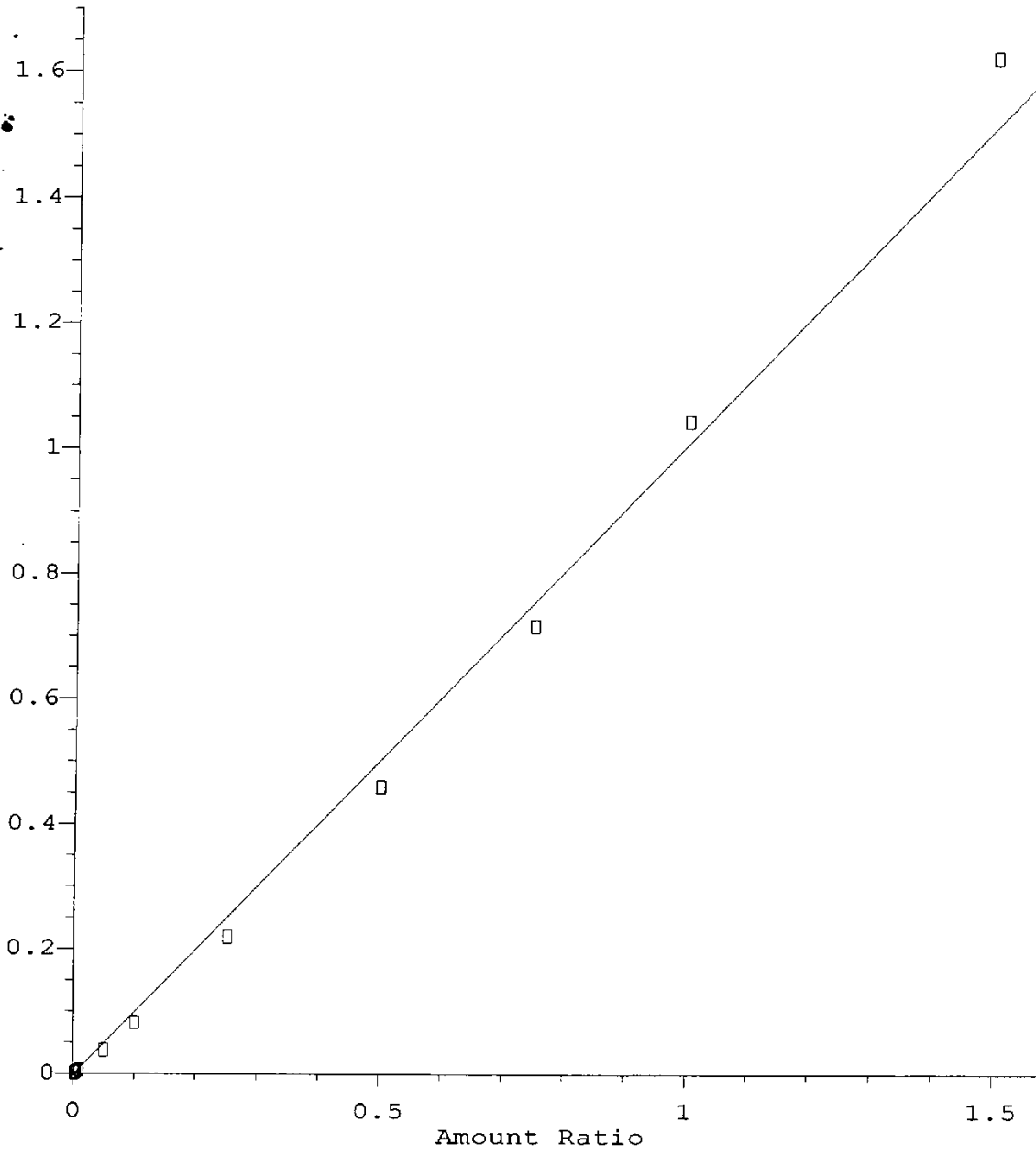


• $R = 4.59e-002 A^2 + 1.55e-001 A - 6.05e-003$
* Coef of Det (r^2) = 0.996 Curve Fit: Quadratic

Method Name: I:\1\METHODS\RBCA_08172006.M
Calibration Table Last Updated: Thu Aug 17 16:02:16 2006

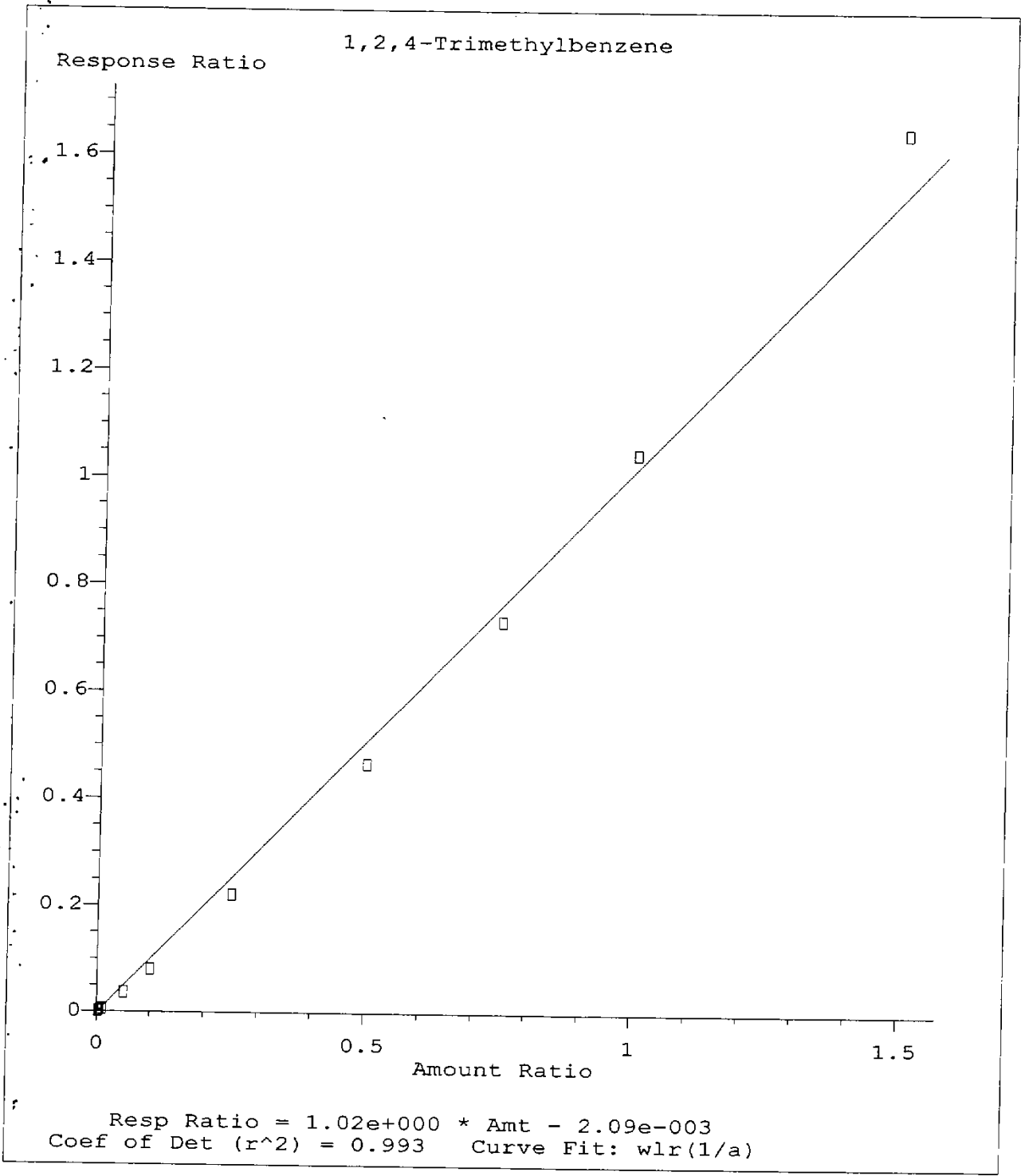
1,3,5-Trimethylbenzene

Response Ratio



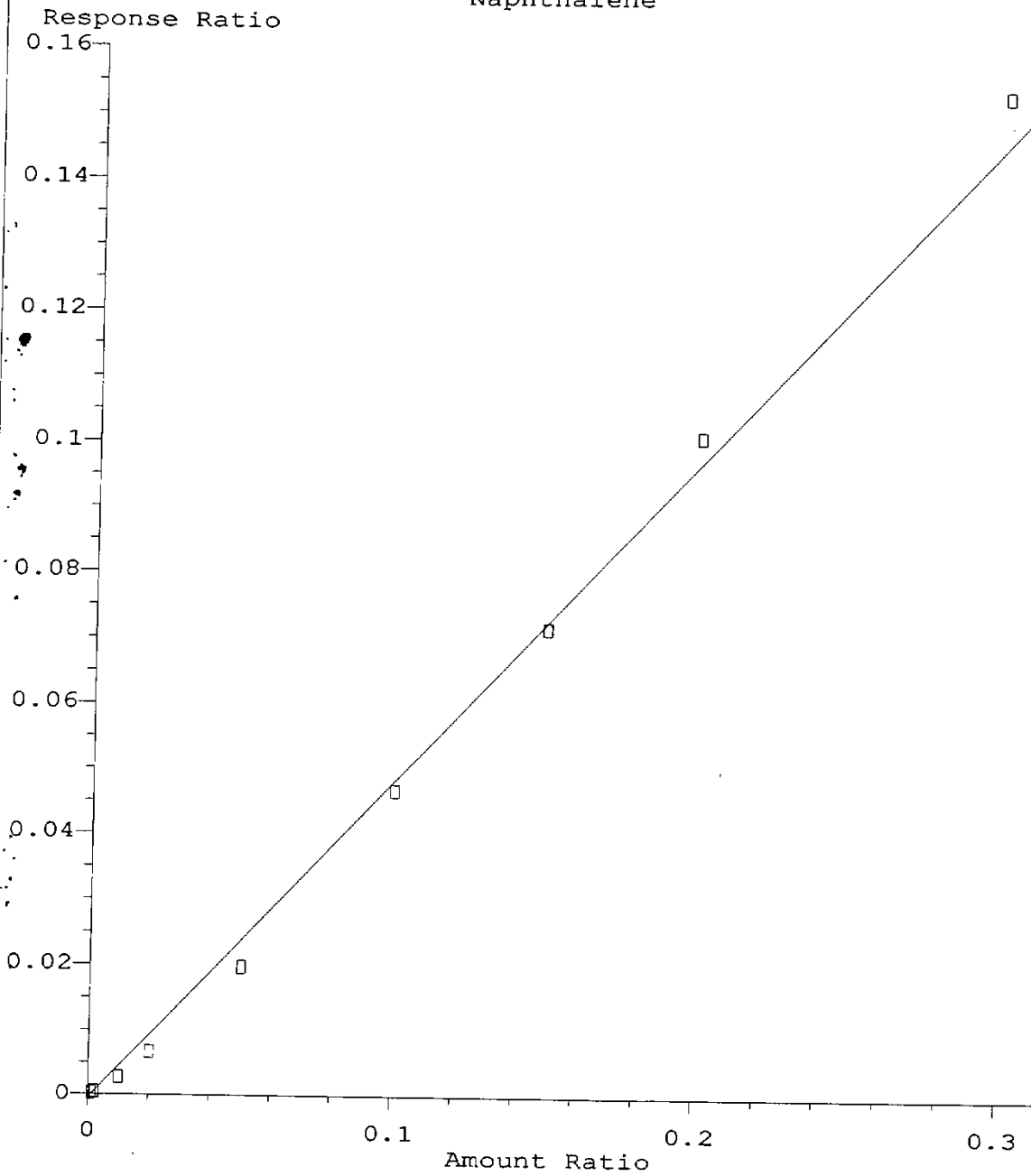
Resp Ratio = 1.01e+000 * Amt - 1.84e-003
Coef of Det (r^2) = 0.994 Curve Fit: wlr(1/a)

Method Name: I:\1\METHODS\RBCA_08172006.M
Calibration Table Last Updated: Thu Aug 17 16:02:16 2006



Method Name: I:\1\METHODS\RBCA_08172006.M
Calibration Table Last Updated: Thu Aug 17 16:02:16 2006

Naphthalene



Resp Ratio = $4.89e-001 * Amt - 6.04e-004$
Coef of Det (r^2) = 0.993 Curve Fit: wlr(1/a)

Method Name: I:\1\METHODS\RBCA_08172006.M
Calibration Table Last Updated: Thu Aug 17 16:02:16 2006

CONTINUING CALIBRATION

Sequence Log

Directory : x:\1\DATA\08312006

#	Filename	Sample Name	Date/Time
1	ms166884.d	25 btex ccal	08/31/06 07:57
2	ms166887.d	MB 580-10448/1-A	08/31/06 09:56
3	ms166888.d	LCS 580-10448/2-A	08/31/06 10:18
4	ms166889.d	LCSD 580-10448/3-A	08/31/06 10:41
5	ms166892.d	580-3406-A-2-A	08/31/06 12:24
6	ms166893.d	580-3406-B-2-A MS	08/31/06 12:46
7	ms166894.d	580-3406-A-4-A	08/31/06 13:09
8	ms166897.d	580-3405-A-3-A	08/31/06 14:16
9	ms166900.d	580-3407-C-2-A	08/31/06 15:24
10	ms166901.d	580-3407-B-6-A	08/31/06 15:46
11	ms166902.d	580-3407-C-13-A	08/31/06 16:09
12	ms166903.d	580-3407-A-9-A 1:50	08/31/06 16:31
13	ms166904.d	580-3407-B-9-A DU 1:50	08/31/06 16:54
14	ms166905.d	580-3407-C-11-A 1:215	08/31/06 17:16
15	ms166907.d	25 btex ccal	08/31/06 18:01
16	ms166909.d	MB	08/31/06 18:46
17	ms166910.d	LCS	08/31/06 19:09
18	ms166911.d	LCSD	08/31/06 19:31
19	ms166918.d	580-3451-C-9	08/31/06 22:08
20	ms166919.d	580-3377-A-2	08/31/06 22:31
21	ms166920.d	580-3377-D-1	08/31/06 22:53
22	ms166921.d	580-3407-E-16 1:10	08/31/06 23:16

Data File : I:\1\DATA\08312006\MS166907.D
 Acq On : 31 Aug 2006 6:01 pm
 Sample : 25 btex ccal
 Misc : 1369-36-2
 MS Integration Params: rteint.p
 Quant Time: Aug 31 18:29:48 2006

Vial: 25
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Results File: RBCA_08172006.RE

Quant Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260B 08-17-2006
 Last Update : Thu Aug 17 16:02:16 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Difluorobenzene (I)	5.95	114	3584946	100.00	ug/L	-0.01

System Monitoring Compounds

2) Fluorobenzene (Surr)	5.82	96	3807078	104.64	ug/L	0.00
3) Trifluorotoluene (Surr)	6.57	146	1940692	105.72	ug/L	0.00
Spiked Amount	100.000	Range	82 - 120	Recovery	=	105.72%
4) Toluene-d8 (Surr)	7.50	98	3794894	104.79	ug/L	-0.01
Spiked Amount	100.000			Recovery	=	104.79%
5) Ethylbenzene-d10 (Surr)	8.85	98	4749542	104.52	ug/L	0.00
Spiked Amount	100.000			Recovery	=	104.52%
6) 4-Bromofluorobenzene (Surr)	9.90	95	1417712	102.57	ug/L	0.00
Spiked Amount	100.000	Range	84 - 135	Recovery	=	102.57%

Target Compounds

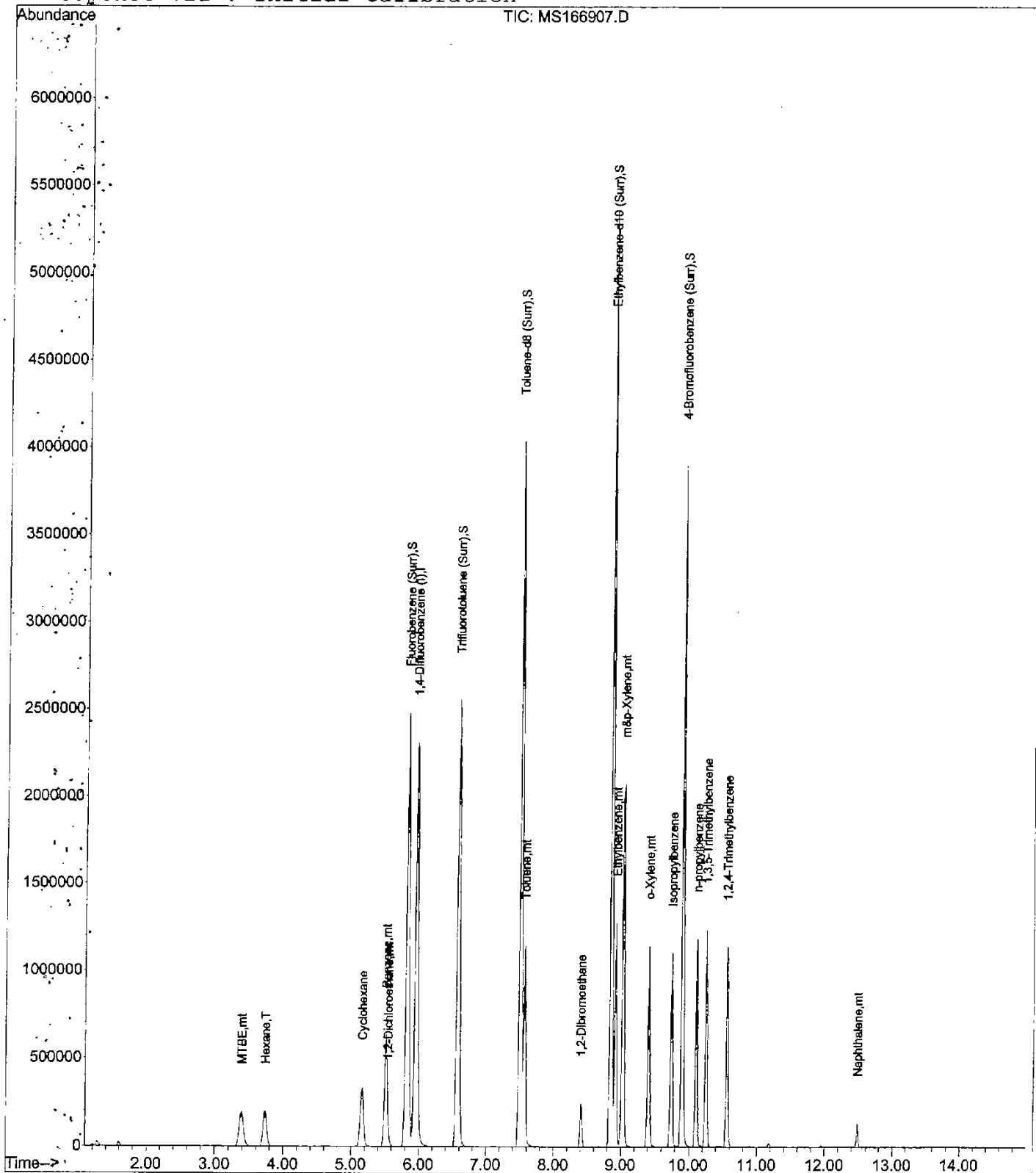
	R.T.	QIon	Response	Conc	Units	Qvalue
7) MTBE	3.39	73	446584	26.43	ug/L	96
8) Hexane	3.74	56	103537	25.32	ug/L	99
9) Cyclohexane	5.16	56	260944	24.80	ug/L	95
10) Benzene	5.51	78	839816	24.06	ug/L	97
11) 1,2-Dichloroethane	5.54	62	79933	9.12	ug/L #	76
12) Toluene	7.57	92	600849	24.53	ug/L	98
13) 1,2-Dibromoethane	8.40	107	194912	35.22	ug/L #	97
14) Ethylbenzene	8.92	91	1113722	25.11	ug/L	96
15) m&p-Xylene	9.03	106	875547	51.51	ug/L	95
16) o-Xylene	9.41	91	880795	25.70	ug/L	96
17) Isopropylbenzene	9.74	105	925077	26.82	ug/L #	95
18) n-propylbenzene	10.11	91	1189073	26.05	ug/L	95
19) 1,3,5-Trimethylbenzene	10.25	105	805041	22.42	ug/L	97
20) 1,2,4-Trimethylbenzene	10.55	105	827234	22.81	ug/L	100
21) Naphthalene	12.48	128	89795	5.25	ug/L	96

Data File : I:\1\DATA\08312006\MS166907.D
Acq On : 31 Aug 2006 6:01 pm
Sample : 25 btex ccal
Misc : 1369-36-2
MS Integration Params: rteint.p
Quant Time: Aug 31 18:29 2006

Vial: 25
Operator: jc
Inst : Instrumen
Multiplr: 1.00

Quant Results File: RBCA_08172006

Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
Title : RBCA plus by 8260B 08-17-2006
Last Update : Thu Aug 17 16:02:16 2006
Response via : Initial Calibration



Data File : I:\1\DATA\08312006\MS166907.D

Vial: 25

Acq On : 31 Aug 2006 6:01 pm

Operator: jc

Sample : 25 btex ccal

Inst : Instrumen

Misc : 1369-36-2

Multiplr: 1.00

MS Integration Params: rteint.p

Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)

Title : RBCA plus by 8260B 08-17-2006

Last Update : Thu Aug 17 16:02:16 2006

Response via : Multiple Level Calibration

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

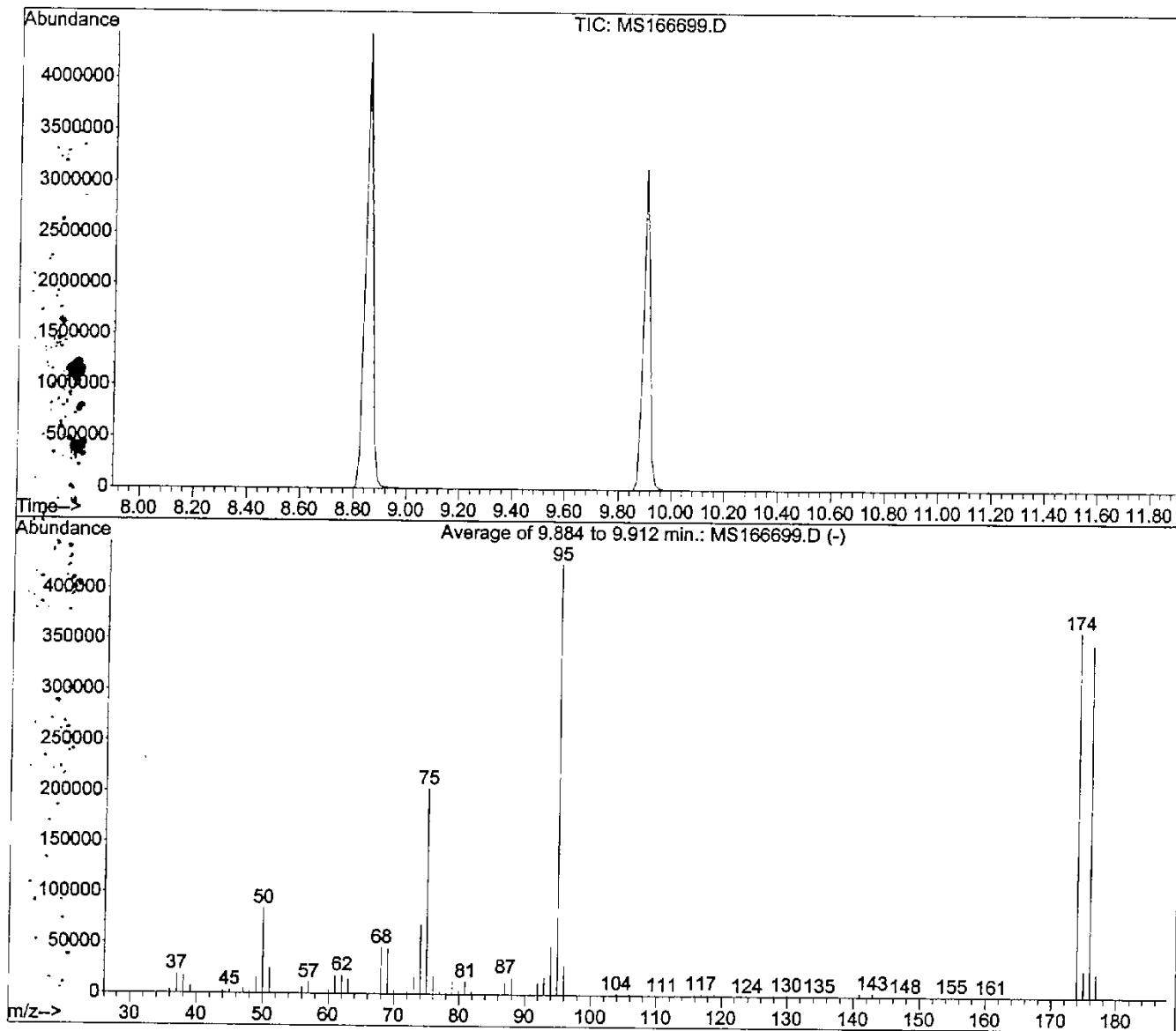
Max. RRF Dev : 20% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I 1,4-Difluorobenzene (I)	100.000	100.000	0.0	136	-0.01
2 S Fluorobenzene (Surr)	100.000	104.641	-4.6	142	0.00
3 S Trifluorotoluene (Surr)	100.000	105.723	-5.7	143	0.00
4 S Toluene-d8 (Surr)	100.000	104.788	-4.8	142	-0.01
5 S Ethylbenzene-d10 (Surr)	100.000	104.524	-4.5	141	0.00
6 S 4-Bromofluorobenzene (Surr)	100.000	102.575	-2.6	138	0.00
7 mt MTBE	25.000	26.426	-5.7	153	0.00
8 T Hexane	25.000	25.324	-1.3	120	0.01
9 Cyclohexane	25.000	24.804	0.8	124	0.00
10 mt Benzene	25.000	24.064	3.7	133	0.00
11 mt 1,2-Dichloroethane	25.000	9.115	63.5#	44	0.00
12 mt Toluene	25.000	24.530	1.9	138	0.00
13 mt 1,2-Dibromoethane	25.000	35.220	-40.9#	230	-0.01
14 mt Ethylbenzene	25.000	25.112	-0.4	138	0.00
15 mt m&p-Xylene	50.000	51.513	-3.0	144	0.00
16 mt o-Xylene	25.000	25.704	-2.8	139	0.00
17 Isopropylbenzene	25.000	26.825	-7.3	146	0.00
18 n-propylbenzene	25.000	26.053	-4.2	136	0.00
19 1,3,5-Trimethylbenzene	25.000	22.417	10.3	139	-0.01
20 1,2,4-Trimethylbenzene	25.000	22.813	8.7	142	-0.01
21 mt Naphthalene	5.000	5.248	-5.0	173	0.00

BFB TUNING

Data File : I:\1\DATA\08172006\MS166699.D
 Acq On : 17 Aug 2006 9:37 am
 Sample : rinse/tune
 Misc : BT=Sea003081706m
 MS Integration Params: rteint.p
 Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260B 08-17-2006

Vial: 1
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00



AutoFind: Scans 631, 632, 633; Background Corrected with Scan 627

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result
50	95	15	40	19.8	84160	PASS
75	95	30	60	47.9	203733	PASS
95	95	100	100	100.0	425472	PASS
96	95	5	9	6.6	28237	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	84.7	360373	PASS
175	174	5	9	7.3	26457	PASS
176	174	95	101	96.5	347725	PASS
177	176	5	9	6.7	23251	PASS

Data File : I:\1\DATA\08312006\MS166907.D

Vial: 25

Acq On : 31 Aug 2006 6:01 pm

Operator: jc

Sample : 25 btex ccal

Inst : Instrumen

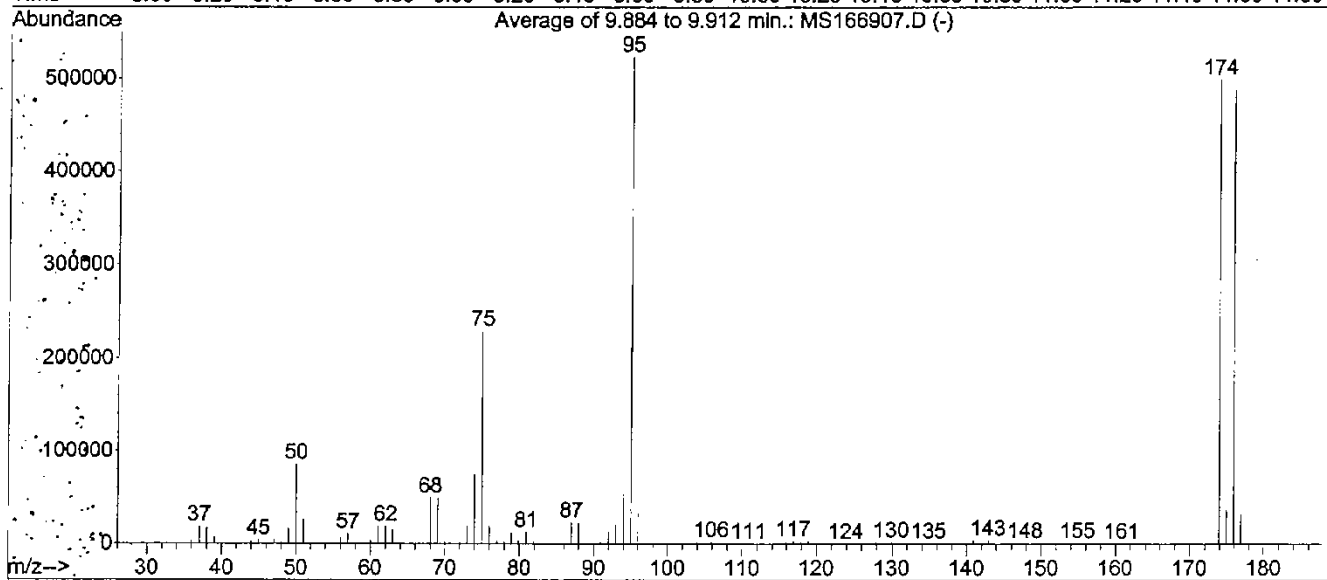
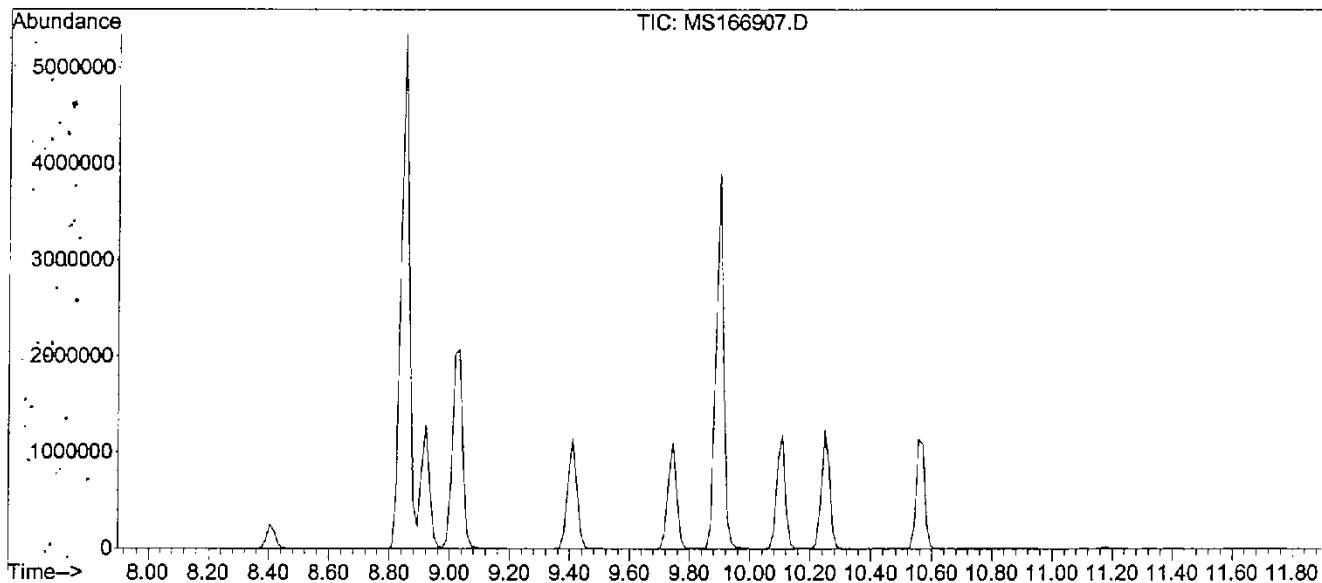
Misc : 1369-36-2

Multiplr: 1.00

MS Integration Params: rteint.p

Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)

Title : RBCA plus by 8260B 08-17-2006



AutoFind: Scans 631, 632, 633; Background Corrected with Scan 626

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.4	85738	PASS
75	95	30	60	43.8	229504	PASS
95	95	100	100	100.0	523498	PASS
96	95	5	9	6.7	35325	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	95.4	499285	PASS
175	174	5	9	7.3	36517	PASS
176	174	95	101	97.8	488106	PASS
177	176	5	9	6.6	31978	PASS

METHOD BLANK

Data File : I:\1\DATA\08312006\MS166909.D
 Acq On : 31 Aug 2006 6:46 pm
 Sample : MB
 Misc : water BT=Sea003083106ml
 MS Integration Params: rteint.p
 Quant Time: Sep 05 10:13:51 2006

Vial: 27
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Results File: RBCA_08172006.RES

Quant Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260B 08-17-2006
 Last Update : Thu Aug 17 16:02:16 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene (I)	5.96	114	3573083	100.00	ug/L	0.00

System Monitoring Compounds

2) Fluorobenzene (Surr)	5.82	96	3790442	104.53	ug/L	0.00
3) Trifluorotoluene (Surr)	6.57	146	1955517	106.88	ug/L	0.00
Spiked Amount 100.000	Range	82 - 120	Recovery	=	106.88%	
4) Toluene-d8 (Surr)	7.50	98	3765208	104.31	ug/L	-0.01
Spiked Amount 100.000			Recovery	=	104.31%	
5) Ethylbenzene-d10 (Surr)	8.85	98	4707416	103.97	ug/L	0.00
Spiked Amount 100.000			Recovery	=	103.97%	
6) 4-Bromofluorobenzene (Surr)	9.90	95	1418243	102.93	ug/L	0.00
Spiked Amount 100.000	Range	84 - 135	Recovery	=	102.93%	

Target Compounds

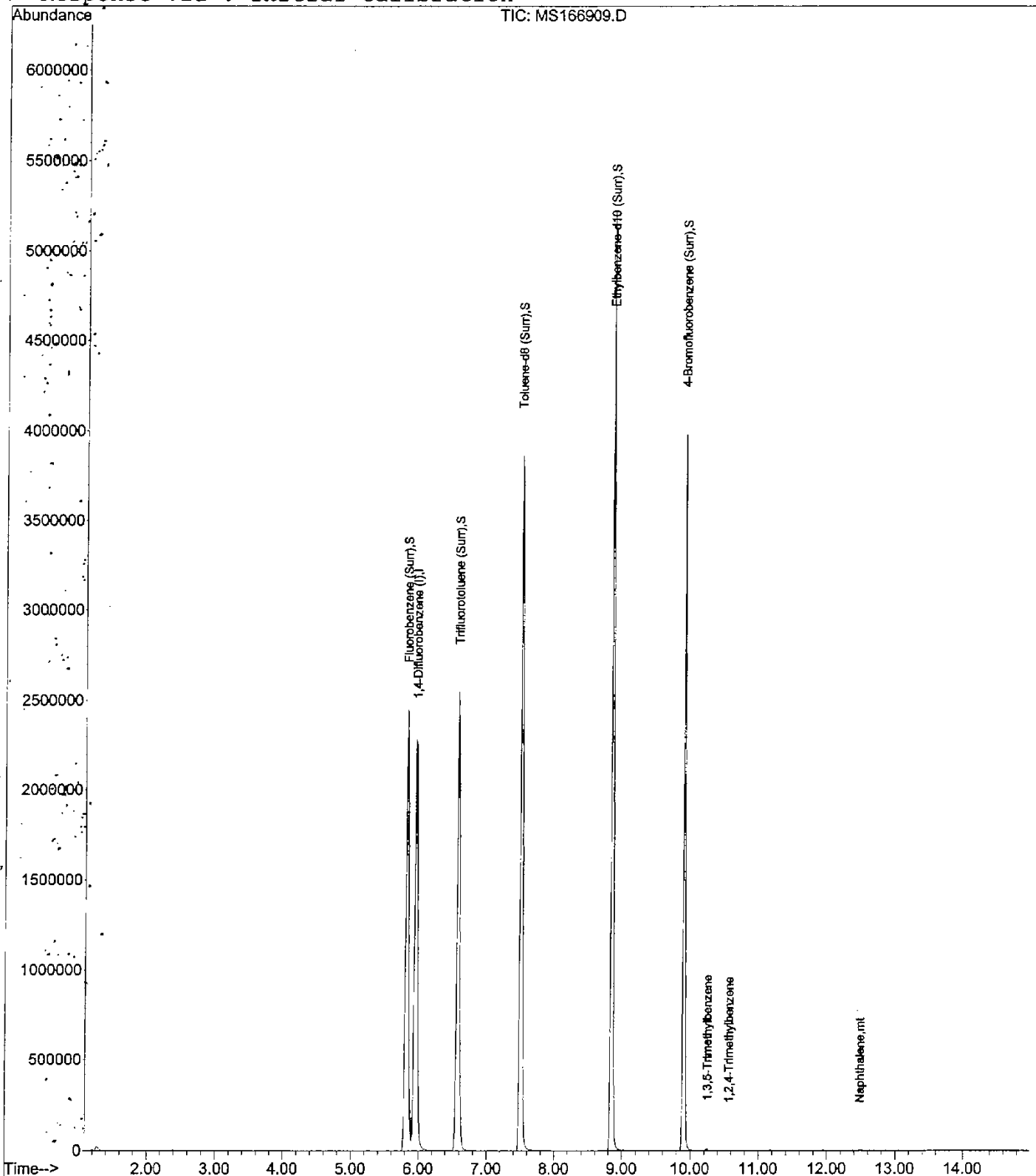
	R.T.	QIon	Response	Conc	Units	Qvalue
19) 1,3,5-Trimethylbenzene	10.25	105	708	0.20	ug/L #	38
20) 1,2,4-Trimethylbenzene	10.57	105	1704	0.25	ug/L #	81
21) Naphthalene	12.48	128	1133	0.19	ug/L #	68

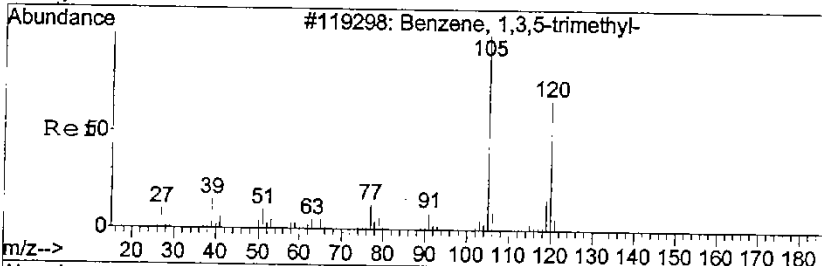
Data File : I:\1\DATA\08312006\MS166909.D
Acq On : 31 Aug 2006 6:46 pm
Sample : MB
Misc : water BT=Sea003083106ml
MS Integration Params: rteint.p
Quant Time: Sep 5 10:13 2006

Vial: 27
Operator: jc
Inst : Instrumen
Multiplr: 1.00

Quant Results File: RBCA_08172006

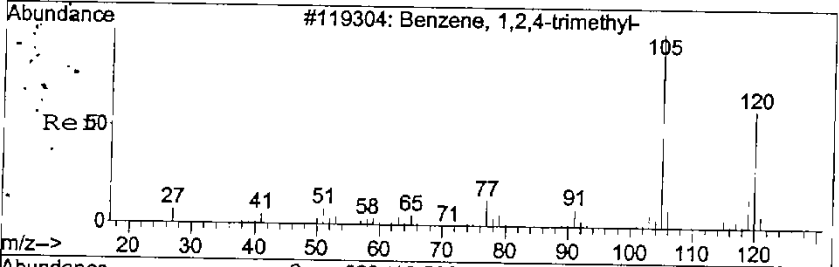
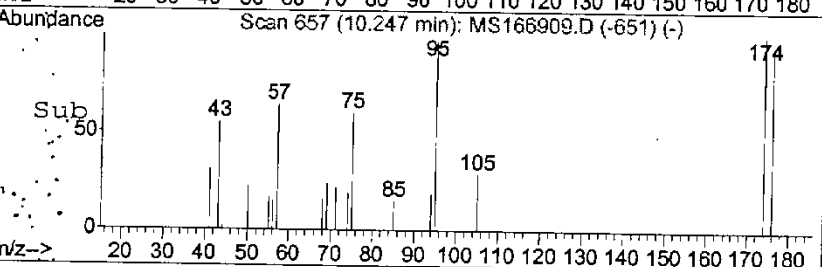
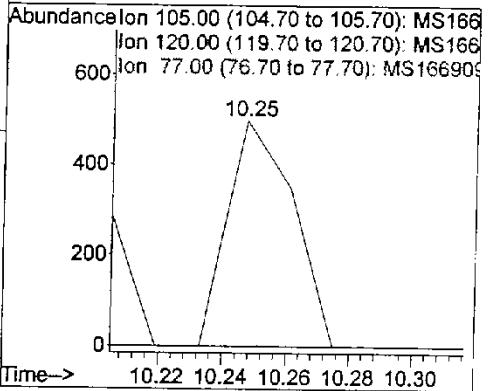
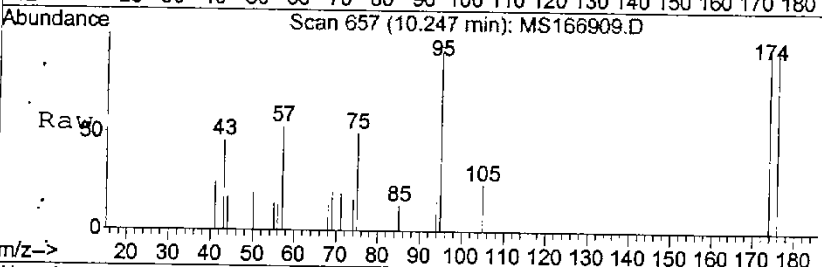
Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
Title : RBCA plus by 8260B 08-17-2006
Last Update : Thu Aug 17 16:02:16 2006
Response via : Initial Calibration





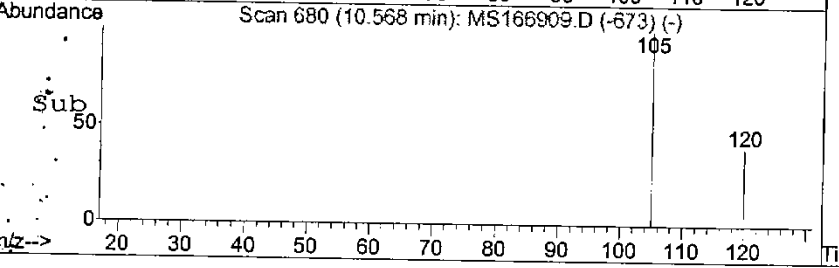
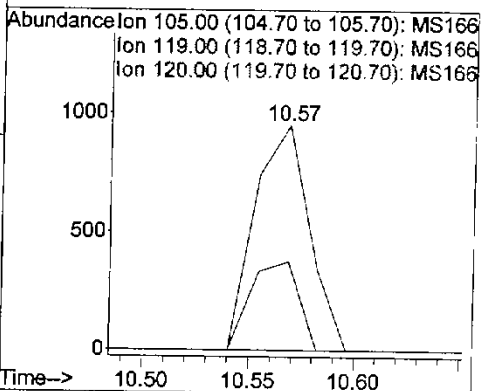
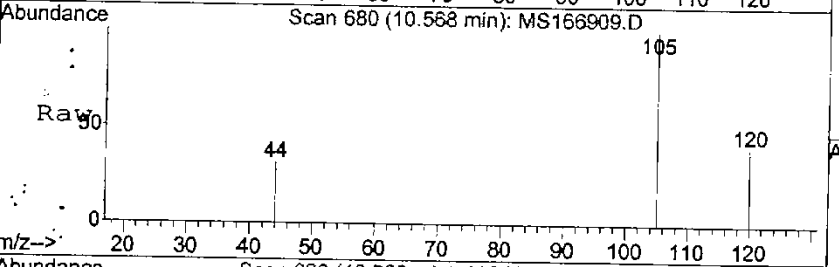
#19
 1,3,5-Trimethylbenzene
 Concen: 0.20 ug/L
 RT: 10.25 min Scan# 657
 Delta R.T. -0.01 min
 Lab File: MS166909.D
 Acq: 31 Aug 2006 6:46 pm

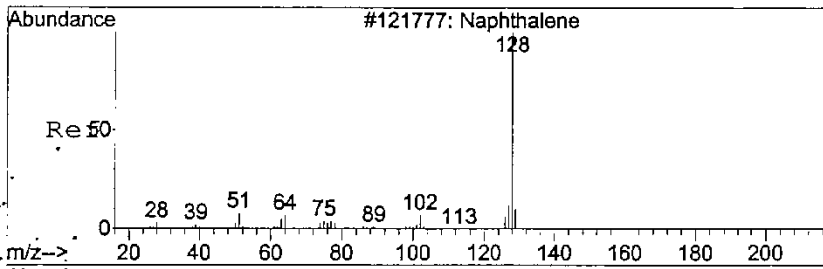
Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	37.9	56.9#
77	0.0	11.4	17.2#



#20
 1,2,4-Trimethylbenzene
 Concen: 0.25 ug/L
 RT: 10.57 min Scan# 680
 Delta R.T. -0.00 min
 Lab File: MS166909.D
 Acq: 31 Aug 2006 6:46 pm

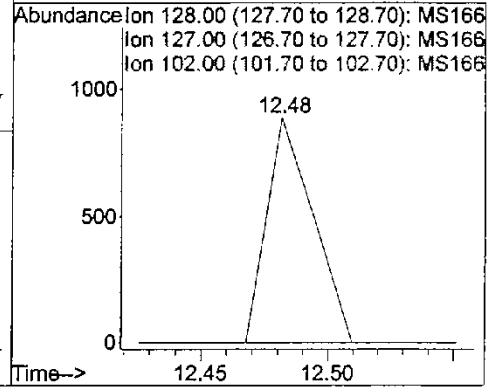
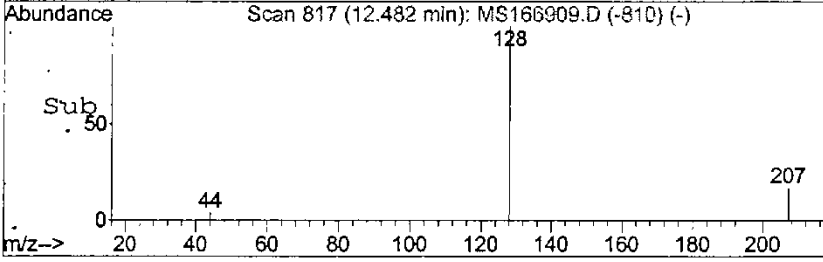
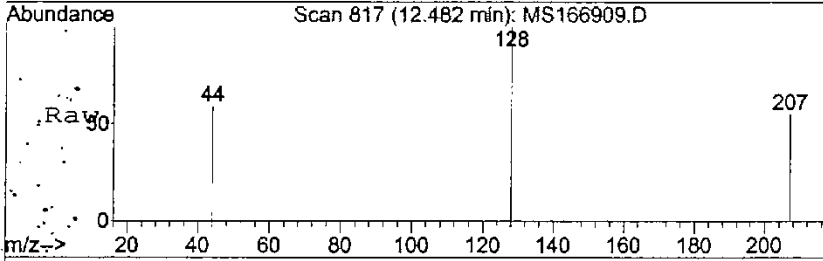
Tgt Ion	Ratio	Lower	Upper
105	100		
119	0.0	9.1	13.7#
120	35.0	36.6	54.8#





#21
 Naphthalene
 Concen: 0.19 ug/L
 RT: 12.48 min Scan# 817
 Delta R.T. 0.00 min
 Lab File: MS166909.D
 Acq: 31 Aug 2006 6:46 pm

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
127	0.0	11.2	16.8	#
102	0.0	8.5	12.7	#



BLANK SPIKE

Data File : I:\1\DATA\08312006\MS166910.D
 Acq On : 31 Aug 2006 7:09 pm
 Sample : LCS
 Misc : water BT=Sea003083106ml
 MS Integration Params: rteint.p
 Quant Time: Sep 05 10:14:00 2006

Vial: 28
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Results File: RBCA_08172006.RE

Quant Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260B 08-17-2006
 Last Update : Thu Aug 17 16:02:16 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX

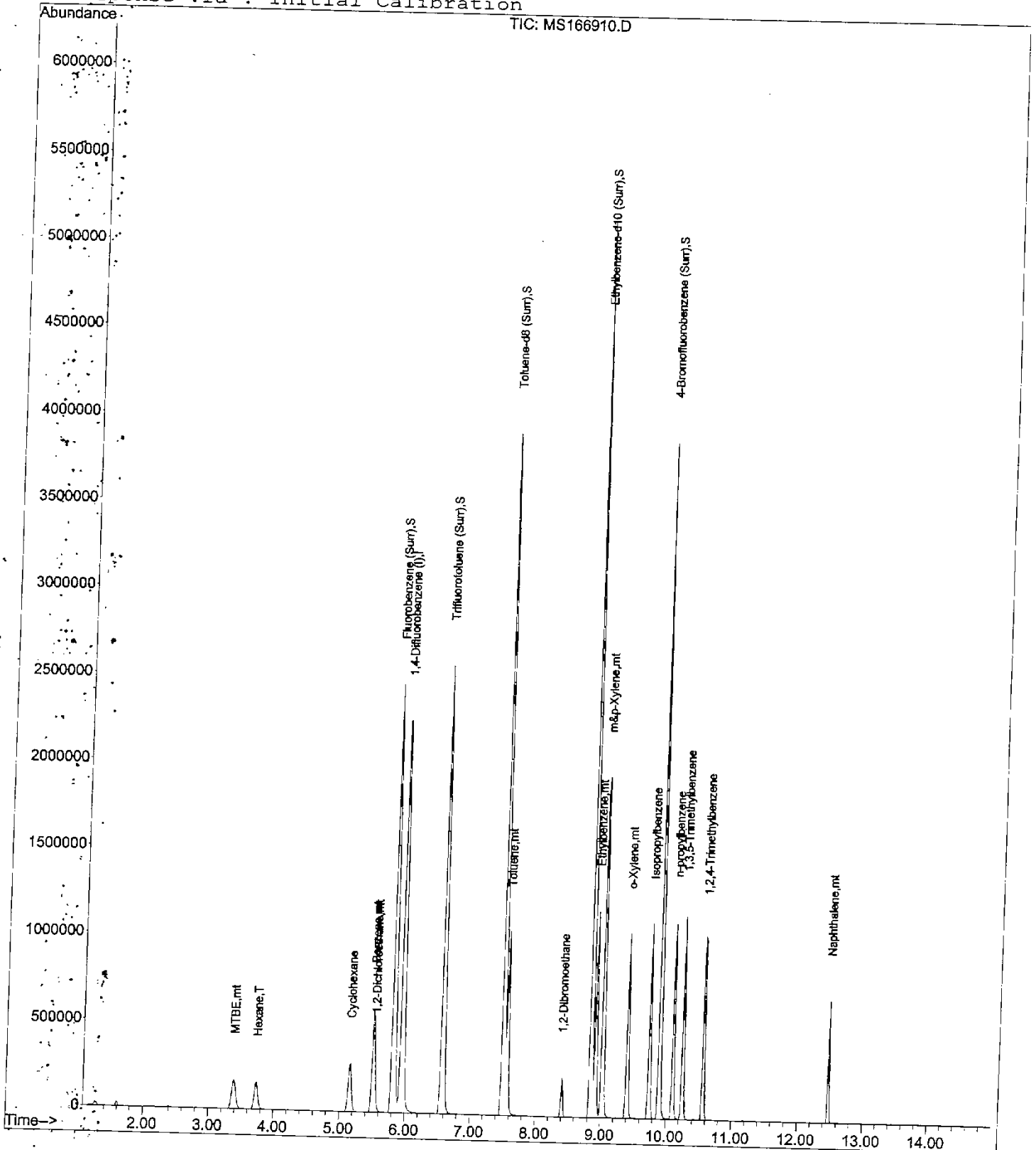
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Difluorobenzene (I)	5.96	114	3571158	100.00	ug/L	0.00
System Monitoring Compounds						
2) Fluorobenzene (Surr)	5.82	96	3782430	104.37	ug/L	0.00
3) Trifluorotoluene (Surr)	6.57	146	1982250	108.40	ug/L	0.00
Spiked Amount 100.000	Range	82 - 120	Recovery =	108.40%		
4) Toluene-d8 (Surr)	7.50	98	3757210	104.15	ug/L	-0.01
Spiked Amount 100.000			Recovery =	104.15%		
5) Ethylbenzene-d10 (Surr)	8.85	98	4655170	102.94	ug/L	0.00
Spiked Amount 100.000			Recovery =	102.94%		
6) 4-Bromofluorobenzene (Surr)	9.90	95	1418686	103.01	ug/L	0.00
Spiked Amount 100.000	Range	84 - 135	Recovery =	103.01%		
Target Compounds						
7) MTBE	3.39	73	387764	23.06	ug/L	Qvalue 95
8) Hexane	3.74	56	82251	20.20	ug/L	98
9) Cyclohexane	5.16	56	217268	20.73	ug/L	94
10) Benzene	5.51	78	754682	21.71	ug/L	97
11) 1,2-Dichloroethane	5.54	62	190281	24.01	ug/L	93
12) Toluene	7.57	92	565861	23.19	ug/L	99
13) 1,2-Dibromoethane	8.40	107	176902	32.63	ug/L	# 98
14) Ethylbenzene	8.92	91	1039232	23.52	ug/L	97
15) m&p-Xylene	9.03	106	827255	48.86	ug/L	94
16) o-Xylene	9.41	91	813772	23.84	ug/L	94
17) Isopropylbenzene	9.74	105	928159	27.02	ug/L	# 95
18) n-propylbenzene	10.11	91	1143665	25.15	ug/L	95
19) 1,3,5-Trimethylbenzene	10.25	105	765148	21.40	ug/L	98
20) 1,2,4-Trimethylbenzene	10.57	105	775294	21.48	ug/L	99
21) Naphthalene	12.48	128	466299	26.84	ug/L	97

Data File : I:\1\DATA\08312006\MS166910.D
Acq On : 31 Aug 2006 7:09 pm
Sample : LCS
Misc : water BT=Sea003083106ml
MS Integration Params: rteint.p
Quant Time: Sep 5 10:14 2006

Vial: 28
Operator: jc
Inst : Instrumen
Multiplr: 1.00

Quant Results File: RBCA_08172006

Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
Title : RBCA plus by 8260B 08-17-2006
Last Update : Thu Aug 17 16:02:16 2006
Response via : Initial Calibration



Data File : I:\1\DATA\08312006\MS166911.D
 Acq On : 31 Aug 2006 7:31 pm
 Sample : LCSD
 Misc : water BT=Sea003083106ml
 MS Integration Params: rteint.p
 Quant Time: Sep 05 10:14:13 2006

Vial: 29
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Results File: RBCA_08172006.RE

Quant Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
 Title : RBCA plus by 8260B 08-17-2006
 Last Update : Thu Aug 17 16:02:16 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX

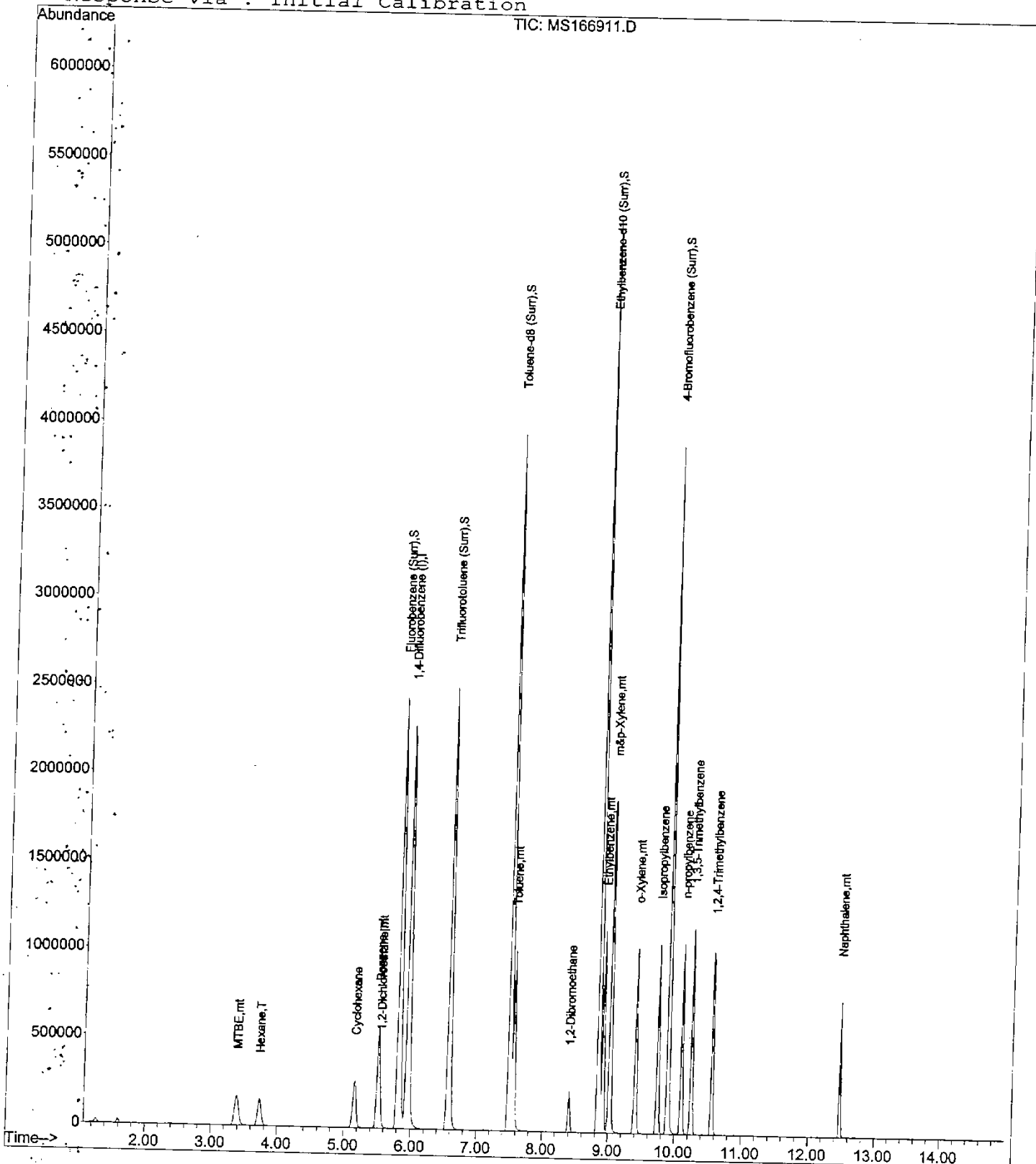
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Difluorobenzene (I)	5.95	114	3541503	100.00	ug/L	-0.01
System Monitoring Compounds						
2) Fluorobenzene (Surr)	5.82	96	3763654	104.72	ug/L	0.00
3) Trifluorotoluene (Surr)	6.57	146	1891574	104.31	ug/L	0.00
Spiked Amount 100.000	Range	82 - 120	Recovery =	104.31%		
4) Toluene-d8 (Surr)	7.50	98	3718573	103.94	ug/L	-0.01
Spiked Amount 100.000			Recovery =	103.94%		
5) Ethylbenzene-d10 (Surr)	8.85	98	4682414	104.32	ug/L	0.00
Spiked Amount 100.000			Recovery =	104.32%		
6) 4-Bromofluorobenzene (Surr)	9.90	95	1424749	104.23	ug/L	0.00
Spiked Amount 100.000	Range	84 - 135	Recovery =	104.23%		
Target Compounds						
7) MTBE	3.39	73	386209	23.16	ug/L	Qvalue 96
8) Hexane	3.72	56	78358	19.40	ug/L	98
9) Cyclohexane	5.16	56	207912	20.01	ug/L	95
10) Benzene	5.51	78	725523	21.04	ug/L	96
11) 1,2-Dichloroethane	5.54	62	192497	24.58	ug/L #	93
12) Toluene	7.57	92	538729	22.26	ug/L	98
13) 1,2-Dibromoethane	8.40	107	184792	34.05	ug/L #	97
14) Ethylbenzene	8.92	91	1005280	22.95	ug/L	96
15) m&p-Xylene	9.03	106	794771	47.33	ug/L	95
16) o-Xylene	9.41	91	792368	23.41	ug/L	94
17) Isopropylbenzene	9.74	105	899893	26.41	ug/L #	95
18) n-propylbenzene	10.11	91	1091192	24.20	ug/L	95
19) 1,3,5-Trimethylbenzene	10.25	105	747844	21.09	ug/L	97
20) 1,2,4-Trimethylbenzene	10.57	105	752795	21.03	ug/L	99
21) Naphthalene	12.48	128	504913	29.29	ug/L	97

Data File : I:\1\DATA\08312006\MS166911.D
Acq On : 31 Aug 2006 7:31 pm
Sample : LCSD
Misc : water BT=Sea003083106ml
MS Integration Params: rteint.p
Quant Time: Sep 5 10:14 2006

Vial: 29
Operator: jc
Inst : Instrumen
Multiplr: 1.00

Quant Results File: RBCA_08172006

Method : I:\1\METHODS\RBCA_08172006.M (RTE Integrator)
Title : RBCA plus by 8260B 08-17-2006
Last Update : Thu Aug 17 16:02:16 2006
Response via : Initial Calibration



LABORATORY WORKSHEETS

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-10651

Batch Open: 8/31/2006 6:46:00PM

Method Code: 580-8260B-580

Batch End:

Volatile Organic Compounds by GC/MS

Input Sample Lab ID (Analytical Method)	SDG	GrossWt TareWt	InitAmnt FinAmnt	PHs Rcvd Adj1 Adj2			Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
1 MB~580-10651/1 N/A	N/A		5 mL				N/A	N/A	N/A		
			5 mL								
2 LCS~580-10651/2 N/A	N/A		5 mL				N/A	N/A	N/A		
			5 mL								
3 LCSD~580-10651/3 N/A	N/A		5 mL				N/A	N/A	N/A		
			5 mL								
580-3451-C-9 (8260B)	N/A		5 mL				9/5/06	2_Days	2		
			5 mL								
580-3377-A-2 (8260B)	N/A		5 mL				8/31/06	8_Days	4		
			5 mL								
6 580-3377-D-1 (8260B)	N/A		5 mL				8/31/06	8_Days	4		
			5 mL								
7 580-3407-E-16 N/A	N/A		5 mL				N/A	N/A	N/A		
			5 mL								

Batch Notes

Batch Comment _____

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Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-10651

Method Code: 580-8260B-580

Batch Open: 8/31/2006 6:46:00PM

Batch End:

Comments

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-10651

Method Code: 580-8260B-580

Batch Open: 8/31/2006 6:46:00PM

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 580-10651/1	GBIS&SUR_00005	1 uL	5 mL		
MB 580-10651/1	TFT Spike_00002	1.25 uL	5 mL		
LCS 580-10651/2	GBIS&SUR_00005	1 uL	5 mL		
LCS 580-10651/2	RBCASpike_00004	0.625 uL	5 mL		
LCS 580-10651/2	TFT Spike_00002	1.25 uL	5 mL		
LCSD 580-10651/3	GBIS&SUR_00005	1 uL	5 mL		
LCSD 580-10651/3	RBCASpike_00004	0.625 uL	5 mL		
LCSD 580-10651/3	TFT Spike_00002	1.25 uL	5 mL		
580-3451-C-9	GBIS&SUR_00005	1 uL	5 mL		
580-3451-C-9	TFT Spike_00002	1.25 uL	5 mL		
580-3377-A-2	GBIS&SUR_00005	1 uL	5 mL		
580-3377-A-2	TFT Spike_00002	1.25 uL	5 mL		
580-3377-D-1	GBIS&SUR_00005	1 uL	5 mL		
580-3377-D-1	TFT Spike_00002	1.25 uL	5 mL		
580-3407-E-16	GBIS&SUR_00005	1 uL	5 mL		
580-3407-E-16	TFT Spike_00002	1.25 uL	5 mL		

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Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-10651

Method Code: 580-8260B-580

Batch Open: 8/31/2006 6:46:00PM

Batch End:

Reagent	Other Reagents:	Lot#:
Amount/Units		

Page 101 of 383

SEMIVOLATILE DATA PACKAGE

SAMPLE DATA

Data File : Y:\DATA\082506_A\HP02201.D
 Acq On : 25 Aug 2006 13:21
 Sample : 580-3377-G-1-A
 Misc : BT=S02082506
 MS Integration Params: RTEINT.P
 Quant Time: Aug 25 14:00:59 2006

Vial: 7
 Operator: RBF
 Inst : SEA023
 Multiplr: 1.00

Quant Results File: PAH080106.RES

Quant Method : Y:\METHODS\PAH080106.M (RTE Integrator)
 Title : USEPA Method SIM 8270 Calibration
 Last Update : Fri Aug 25 11:11:24 2006
 Response via : Initial Calibration
 DataAcq Meth : PAHSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (I)	5.69	152	25220	100.00	ug/L	0.00
2) Naphthalene-d8 (I)	6.80	136	90914	100.00	ug/L	0.00
7) Acenaphthene-d10 (I)	8.26	162	52848	100.00	ug/L	0.00
12) Phenanthrene-d10 (I)	9.59	188	76881	100.00	ug/L	0.00
18) Chrysene-d12 (I)	12.49	240	69617	100.00	ug/L	0.00
21) Perylene-d12 (I)	14.21	264	72759	100.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene - d5 (S)	6.18	82	333743	1114.29	ug/L	0.00
8) 2 - Fluorobiphenyl (S)	7.70	172	689598	963.87	ug/L	0.00
17) Terphenyl - d14 (S)	11.30	244	577246	978.20	ug/L	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	6.81	128	642	0.68	ug/L	44
9) Acenaphthylene	8.10	152	274	0.29	ug/L	50
10) Acenaphthene	8.30	153	174	0.26	ug/L #	55
11) Fluorene	8.71	166	473	0.69	ug/L	87
13) Phenanthrene	9.61	178	2223	0.11	ug/L	84
15) Fluoranthene	10.85	202	1071	Below Cal		95
16) Pyrene	11.10	202	813	Below Cal		91
19) Benzo(a)anthracene	12.48	228	621	Below Cal		93
20) Chrysene	12.52	228	455	Below Cal		88
22) Benzo(b)fluoranthene	13.71	252	360	Below Cal		96
23) Benzo(k)fluoranthene	13.75	252	378	Below Cal		99
24) Benzofluoranthenes	13.73	252	797	Below Cal		52
25) Benzo(a)pyrene	14.13	252	334	0.72	ug/L	96
26) Indeno(1,2,3-cd)pyrene	15.81	276	457	1.11	ug/L	81
27) Dibenz(a,h)anthracene	15.84	278	387	0.51	ug/L	67
28) Benzo(g,h,i)perylene	16.14	276	382	0.42	ug/L	80

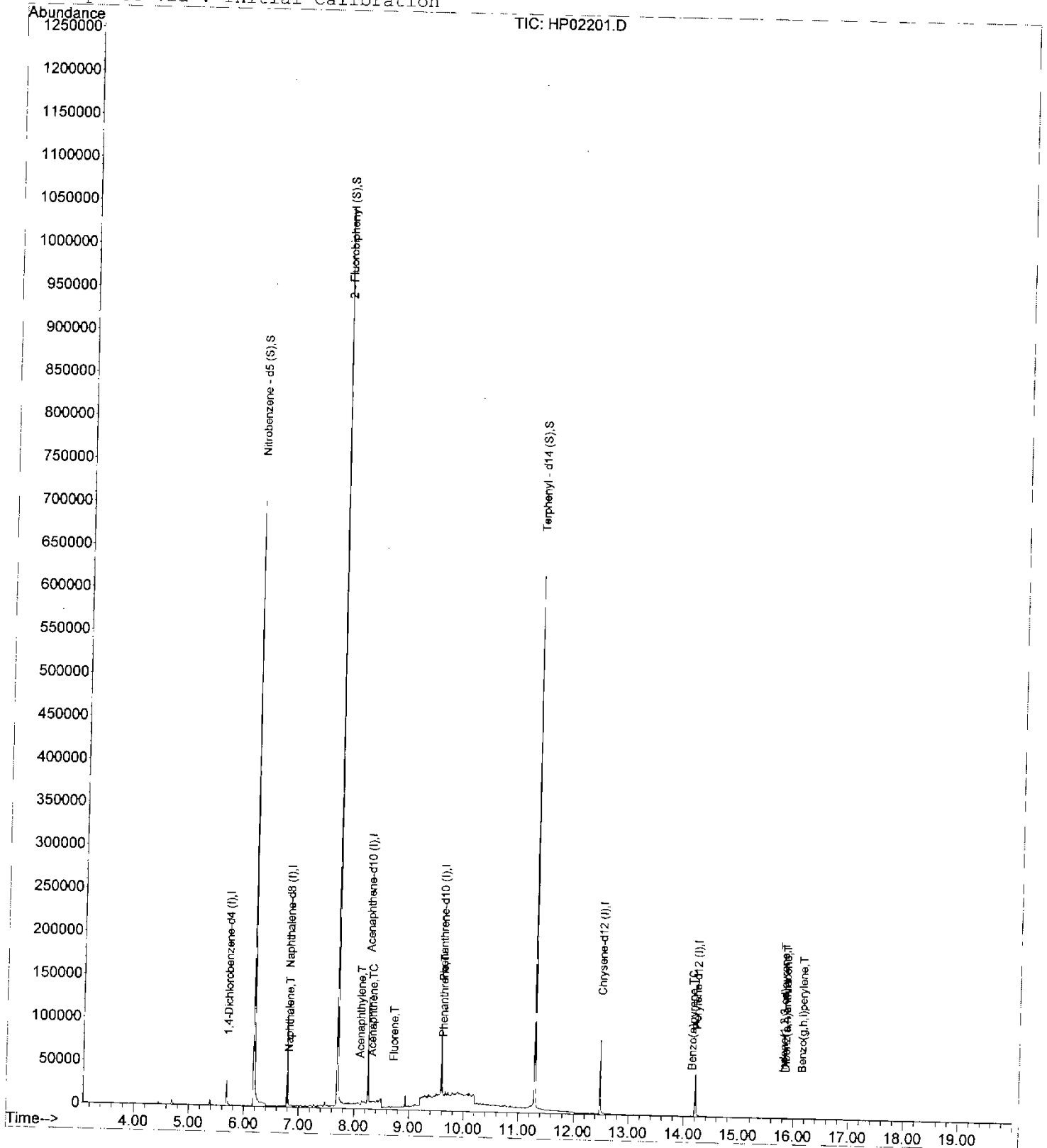
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 HP02201.D PAH080106.M Fri Aug 25 14:02:31 2006

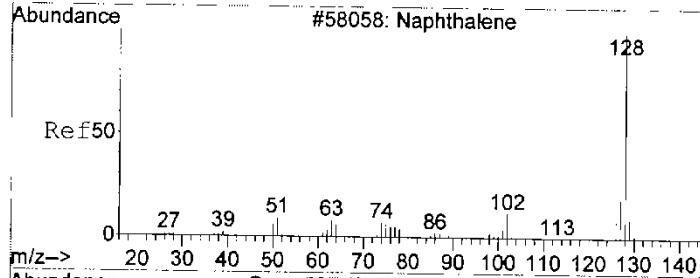
Data File : Y:\DATA\082506 A\HP02201.D
Acq On : 25 Aug 2006 13:21
Sample : 580-3377-G-1-A
Misc : BT-S02082506
MS Integration Params: RTEINT.P
Quant Time: Aug 25 14:01 2006

Vial: 7
Operator: RBF
Inst : SEA023
Multiplr: 1.00

Quant Results File: PAH080106.RES

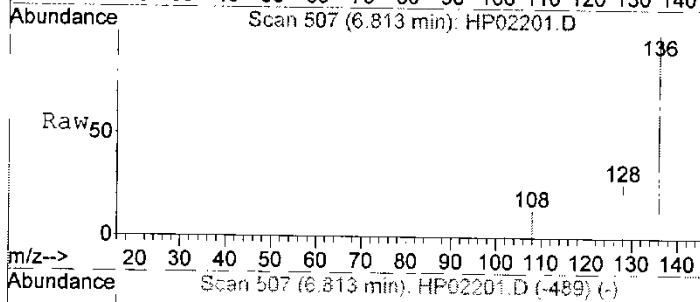
Method : Y:\METHODS\PAH080106.M (RTE Integrator)
Title : USEPA Method SIM 8270 Calibration
Last Update : Fri Aug 25 11:11:24 2006
Response via : Initial Calibration



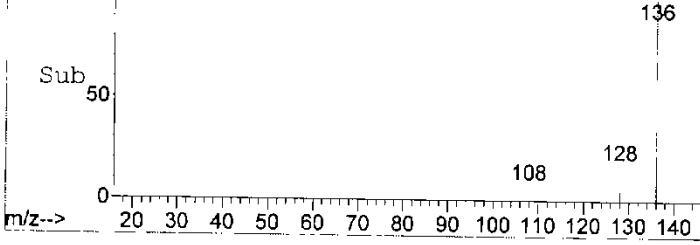
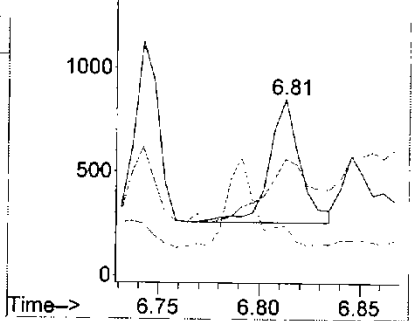


#4
 Naphthalene
 Concen: 0.68 ug/L
 RT: 6.81 min Scan# 507
 Delta R.T. 0.00 min
 Lab File: HP02201.D
 Acq: 25 Aug 2006 13:21

Tgt Ion	Resp	Lower	Upper
128	100		
127	40.0	0.0	42.3
102	16.5	0.0	36.6



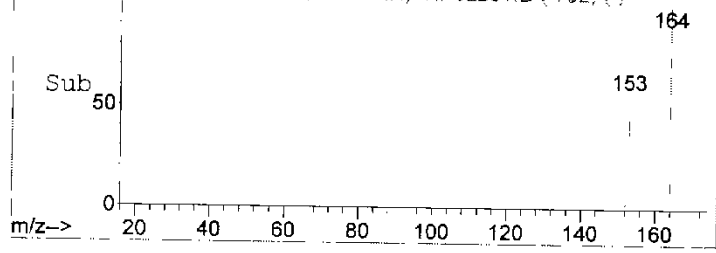
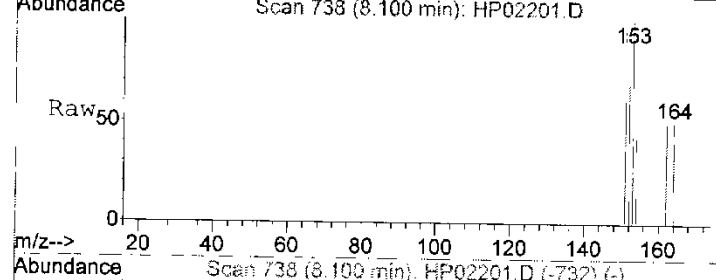
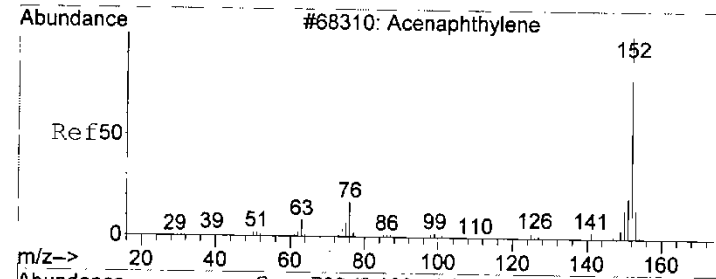
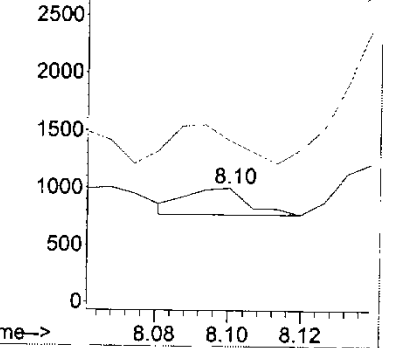
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 Ion 127.00 (126.70 to 127.70):
 Ion 102.00 (101.70 to 102.70):

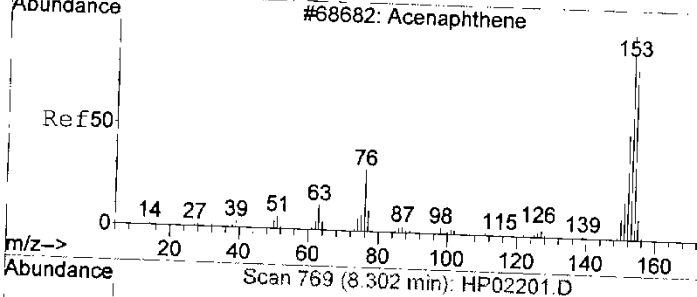


#9
 Acenaphthylene
 Concen: 0.29 ug/L
 RT: 8.10 min Scan# 738
 Delta R.T. -0.03 min
 Lab File: HP02201.D
 Acq: 25 Aug 2006 13:21

Tgt Ion	Resp	Lower	Upper
152	100		
151	47.2	0.0	52.8

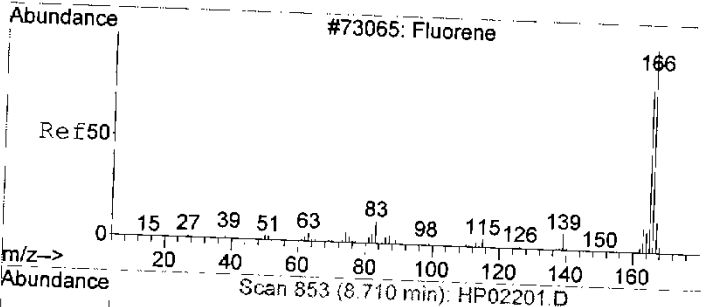
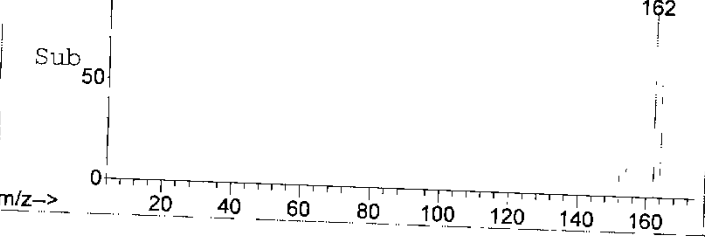
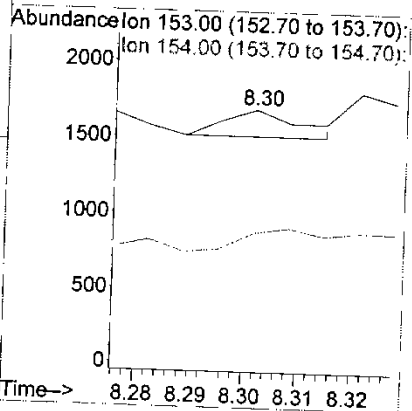
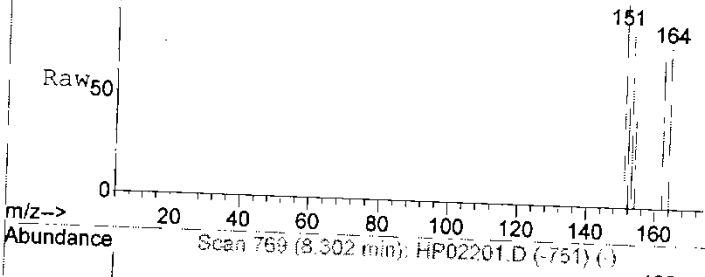
Abundance Ion 152.00 (151.70 to 152.70):
 Ion 151.00 (150.70 to 151.70):





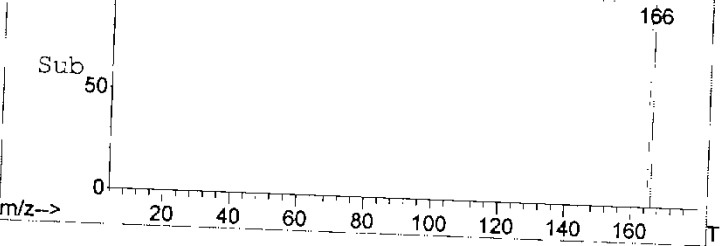
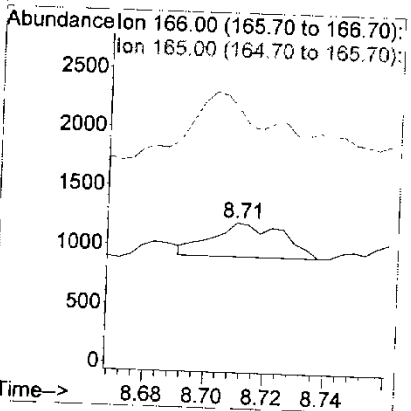
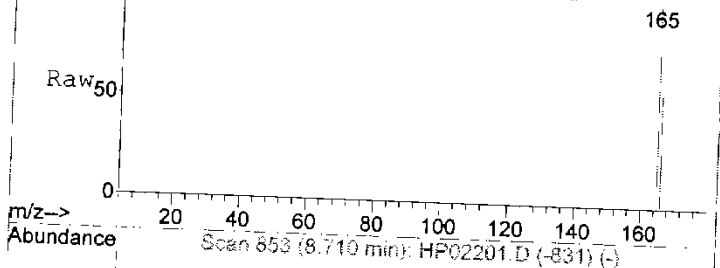
#10
 Acenaphthene
 Concen: 0.26 ug/L
 RT: 8.30 min Scan# 769
 Delta R.T. 0.02 min
 Lab File: HP02201.D
 Acq: 25 Aug 2006 13:21

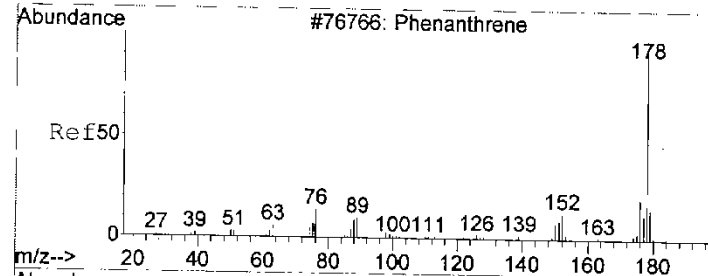
Tgt Ion: 153 Resp: 174
 Ion Ratio Lower Upper
 153 100
 154 55.3 70.7 130.7#



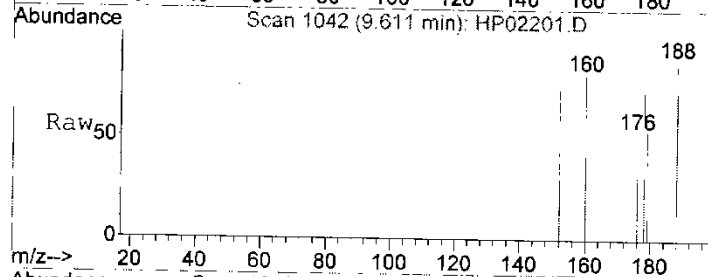
#11
 Fluorene
 Concen: 0.69 ug/L
 RT: 8.71 min Scan# 853
 Delta R.T. -0.02 min
 Lab File: HP02201.D
 Acq: 25 Aug 2006 13:21

Tgt Ion: 166 Resp: 473
 Ion Ratio Lower Upper
 166 100
 165 95.3 53.2 113.2

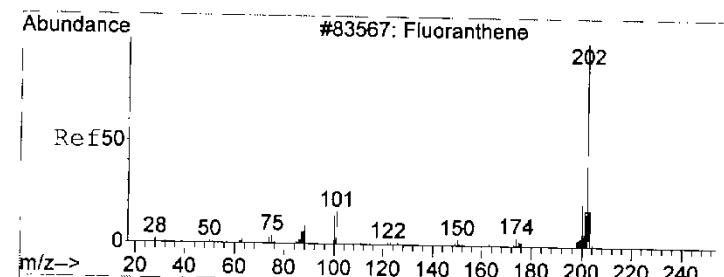
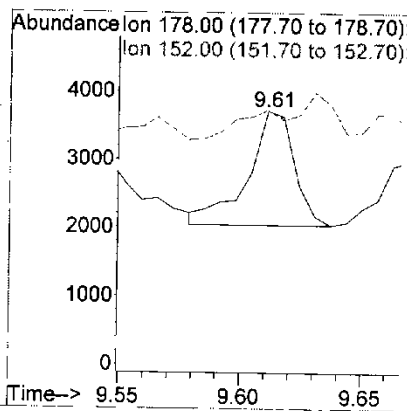
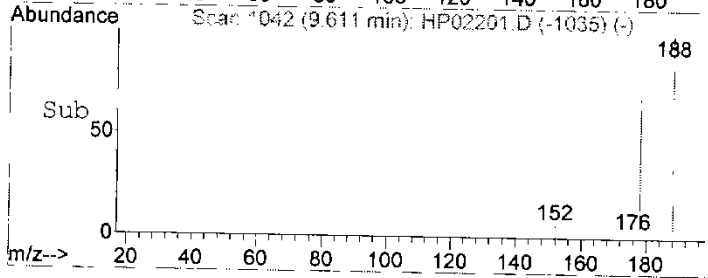




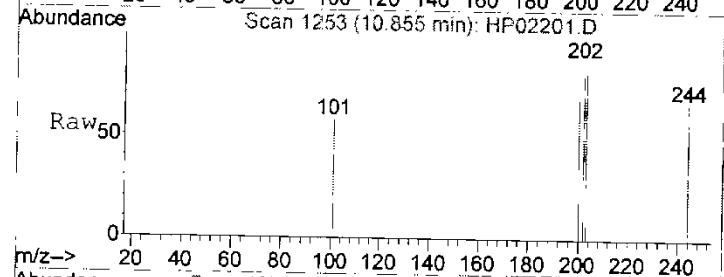
#13
 Phenanthrene
 Concen: 0.11 ug/L
 RT: 9.61 min Scan# 1042
 Delta R.T. -0.01 min
 Lab File: HP02201.D
 Acq: 25 Aug 2006 13:21



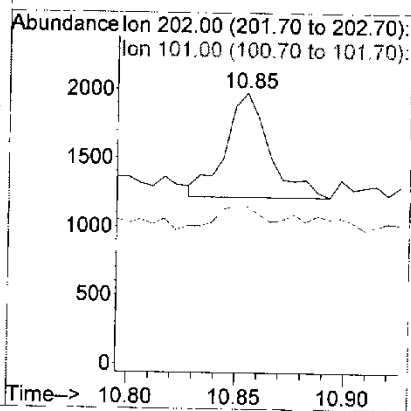
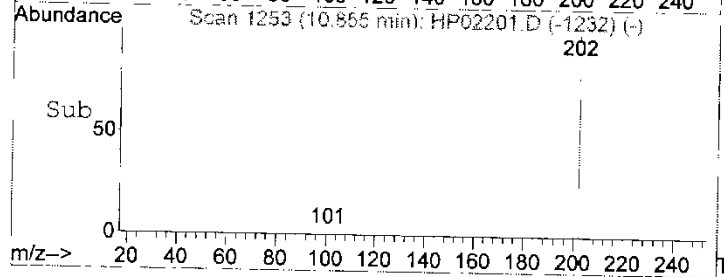
Tgt Ion: 178 Resp: 2223
 Ion Ratio Lower Upper
 178 100
 152 11.5 0.0 36.2

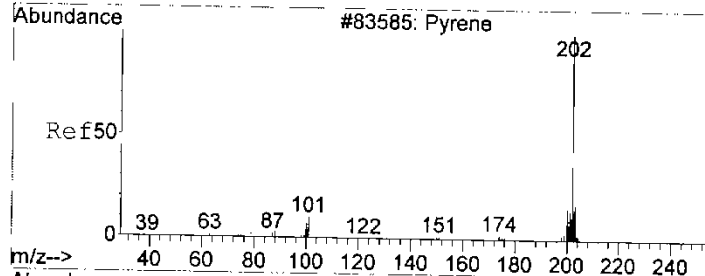


#15
 Fluoranthene
 Concen: Below Cal
 RT: 10.85 min Scan# 1253
 Delta R.T. -0.01 min
 Lab File: HP02201.D
 Acq: 25 Aug 2006 13:21

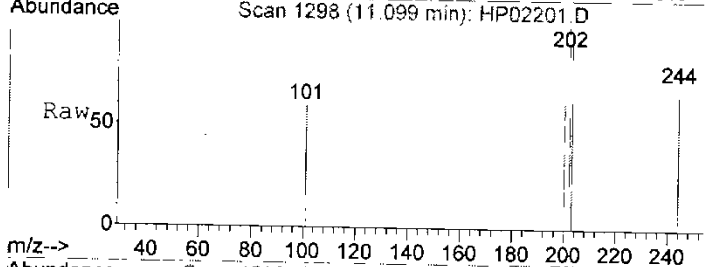


Tgt Ion: 202 Resp: 1071
 Ion Ratio Lower Upper
 202 100
 101 16.5 0.0 44.3

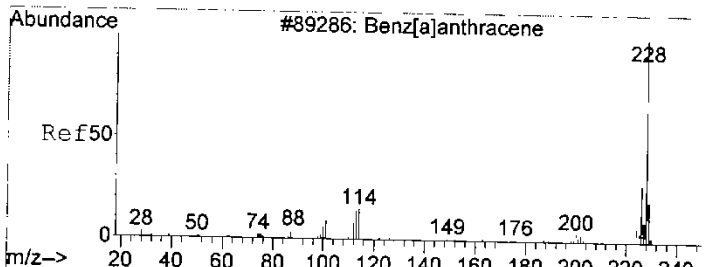
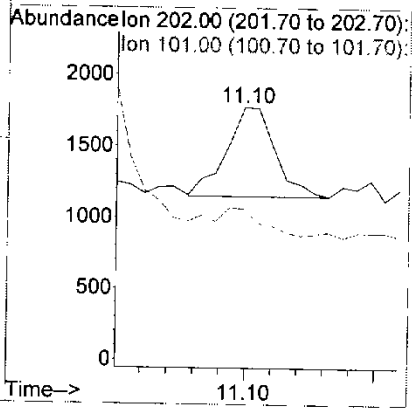
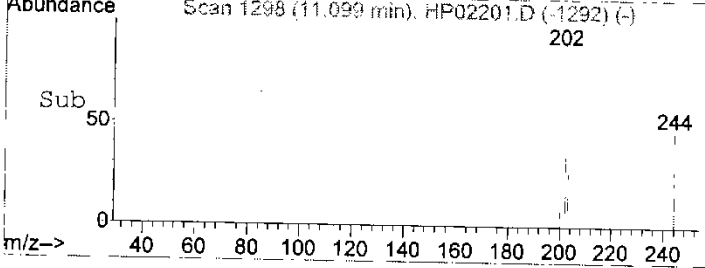




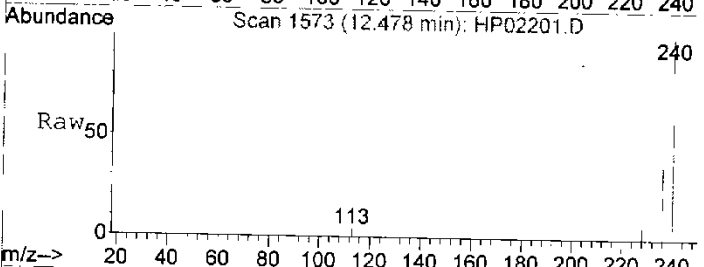
#16
 Pyrene
 Concen: Below Cal
 RT: 11.10 min Scan# 1298
 Delta R.T. -0.01 min
 Lab File: HP02201.D
 Acq: 25 Aug 2006 13:21



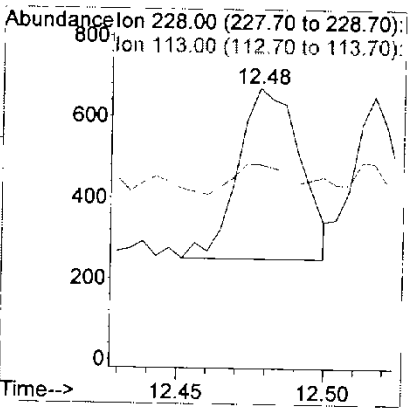
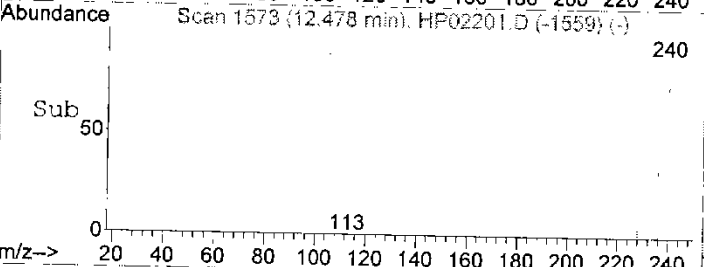
Tgt Ion: 202 Resp: 813
 Ion Ratio Lower Upper
 202 100
 101 20.1 0.0 46.4

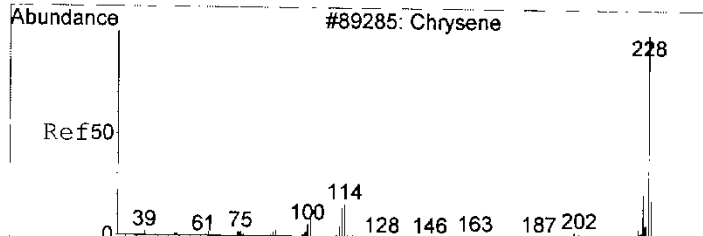


#19
 Benzo(a)anthracene
 Concen: Below Cal
 RT: 12.48 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: HP02201.D
 Acq: 25 Aug 2006 13:21

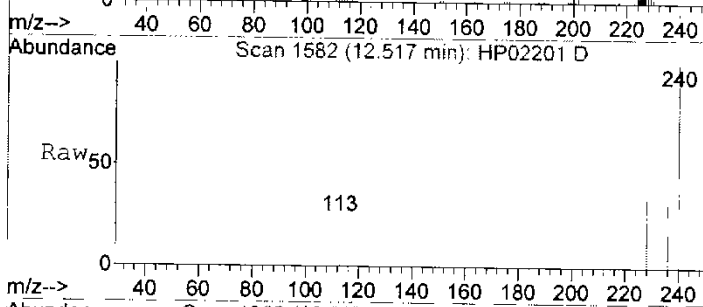


Tgt Ion: 228 Resp: 621
 Ion Ratio Lower Upper
 228 100
 113 12.3 0.0 45.2

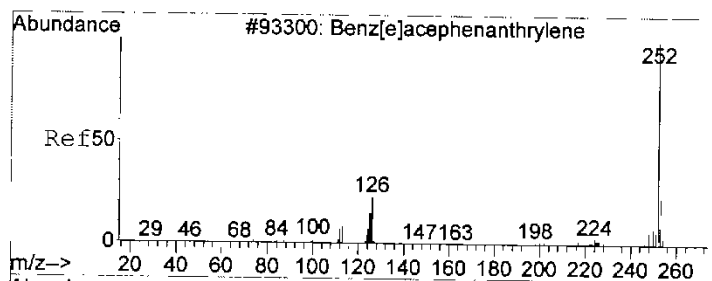
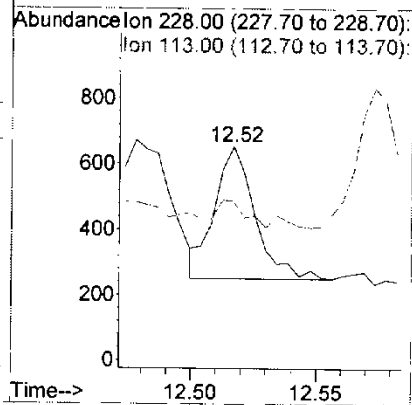
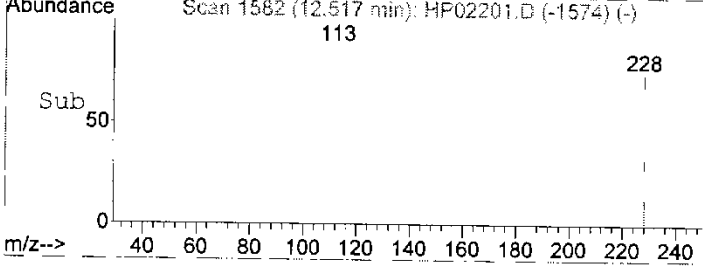




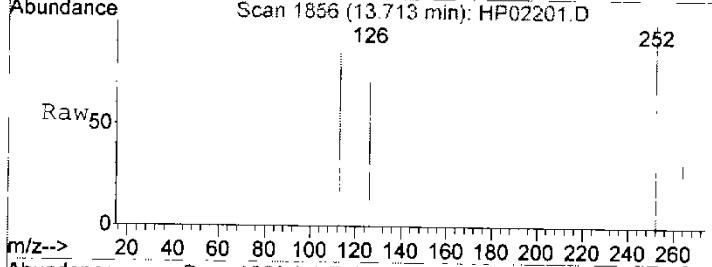
#20
 Chrysene
 Concen: Below Cal
 RT: 12.52 min Scan# 1582
 Delta R.T. -0.00 min
 Lab File: HP02201.D
 Acq: 25 Aug 2006 13:21



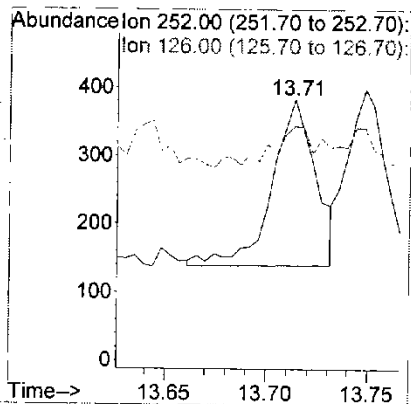
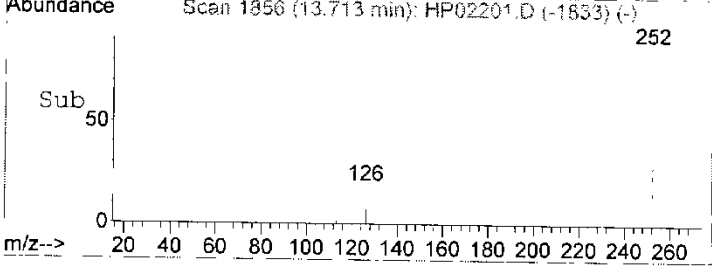
Tgt Ion: 228 Resp: 455
 Ion Ratio Lower Upper
 228 100
 113 10.7 0.0 45.9

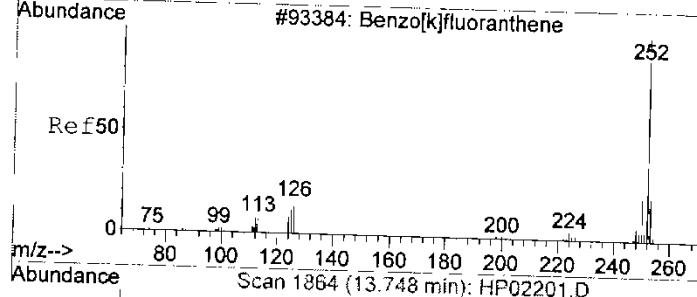


#22
 Benzo(b)fluoranthene
 Concen: Below Cal
 RT: 13.71 min Scan# 1856
 Delta R.T. 0.00 min
 Lab File: HP02201.D
 Acq: 25 Aug 2006 13:21



Tgt Ion: 252 Resp: 360
 Ion Ratio Lower Upper
 252 100
 126 20.1 0.0 38.4

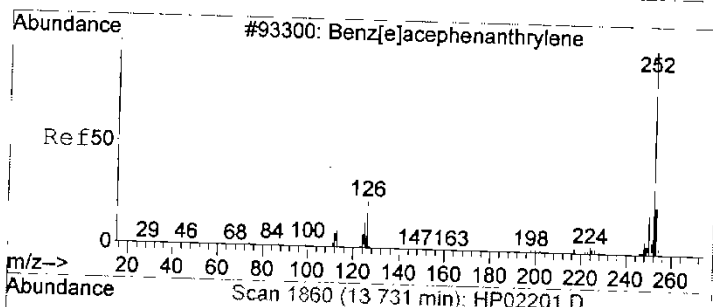
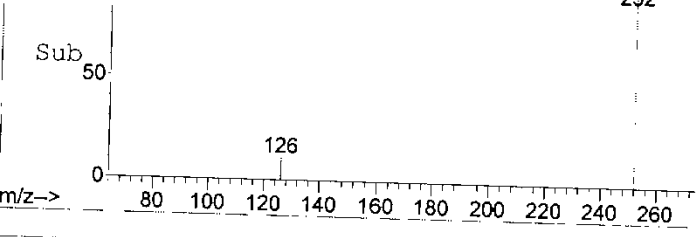
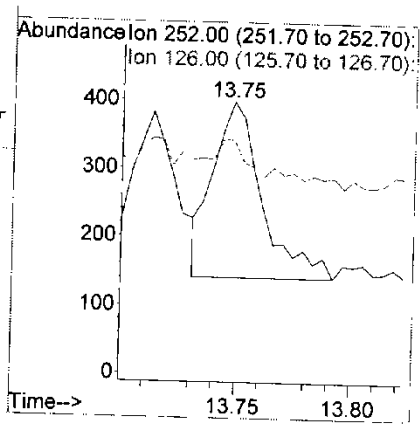
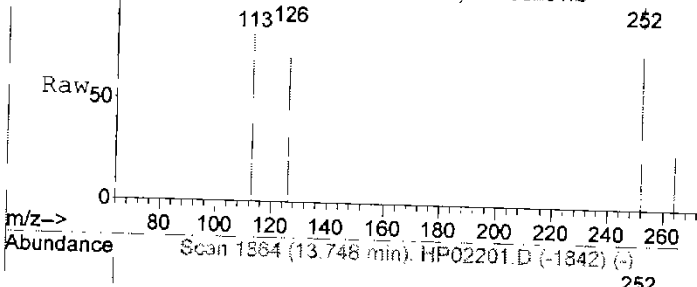




#23
 Benzo(k) fluoranthene
 Concen: Below Cal
 RT: 13.75 min Scan# 1864
 Delta R.T. 0.00 min
 Lab File: HP02201.D
 Acq: 25 Aug 2006 13:21

Tgt Ion: 252 Resp: 378

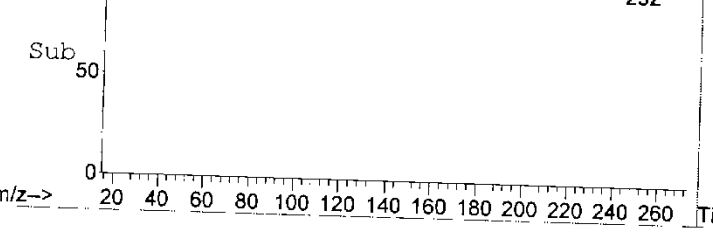
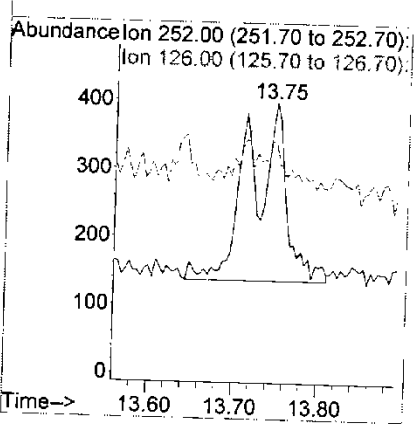
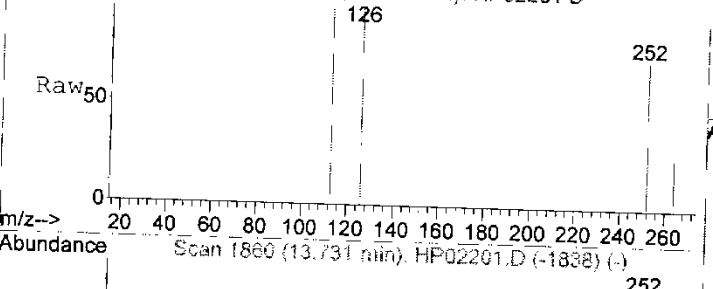
Ion	Ratio	Lower	Upper
252	100		
126	19.6	0.0	50.2

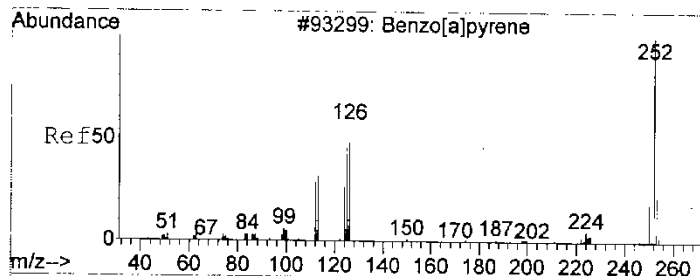


#24
 Benzofluoranthenes
 Concen: Below Cal
 RT: 13.73 min Scan# 1860
 Delta R.T. -0.00 min
 Lab File: HP02201.D
 Acq: 25 Aug 2006 13:21

Tgt Ion: 252 Resp: 797

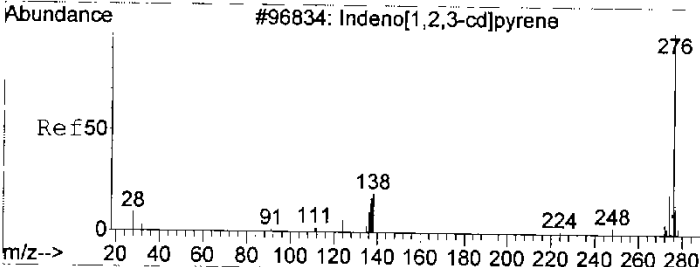
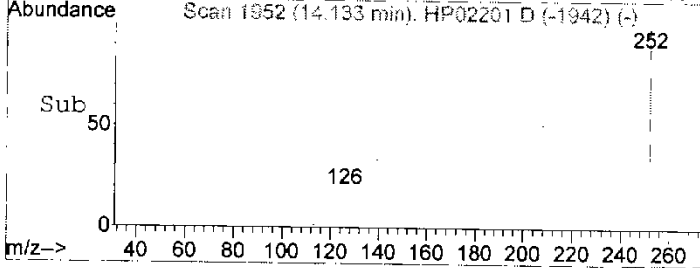
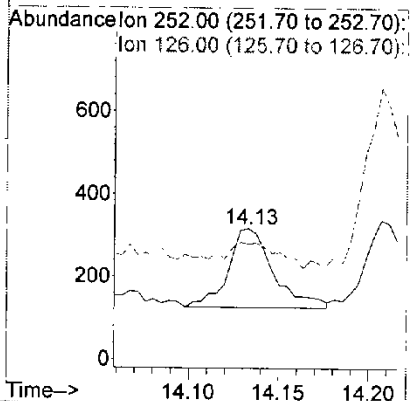
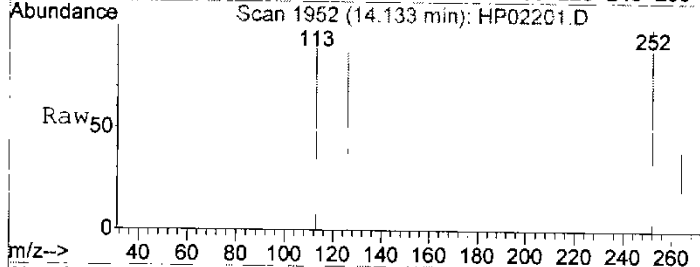
Ion	Ratio	Lower	Upper
252	100		
126	0.6	0.0	54.1





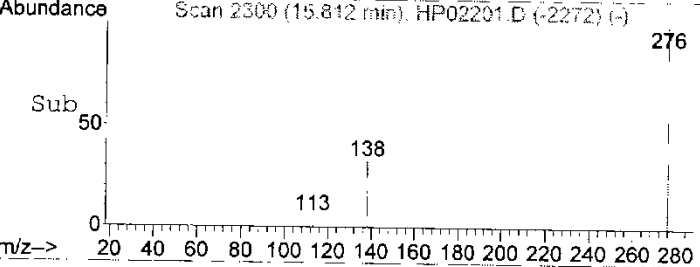
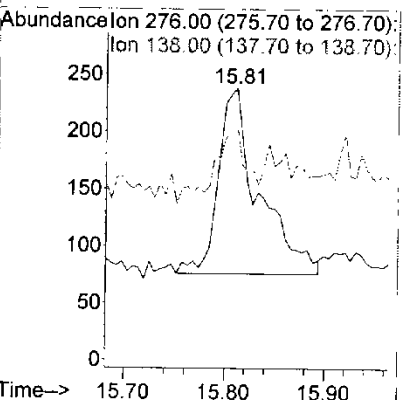
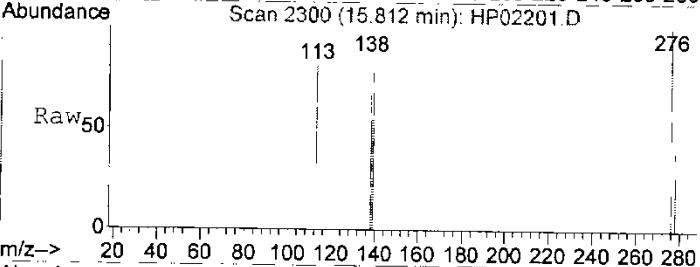
#25
 Benzo(a)pyrene
 Concen: 0.72 ug/L
 RT: 14.13 min Scan# 1952
 Delta R.T. -0.00 min
 Lab File: HP02201.D
 Acq: 25 Aug 2006 13:21

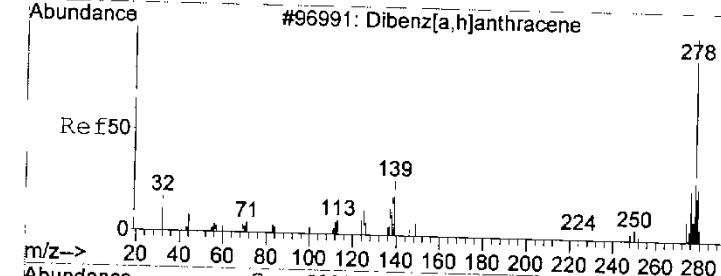
Tgt Ion	Resp	Lower	Upper
252	100		
126	20.9	0.0	49.1



#26
 Indeno(1,2,3-cd)pyrene
 Concen: 1.11 ug/L
 RT: 15.81 min Scan# 2300
 Delta R.T. 0.01 min
 Lab File: HP02201.D
 Acq: 25 Aug 2006 13:21

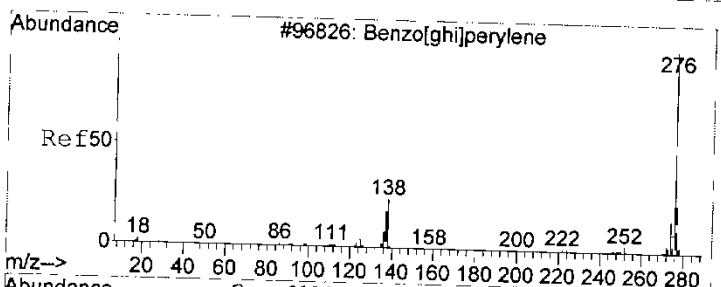
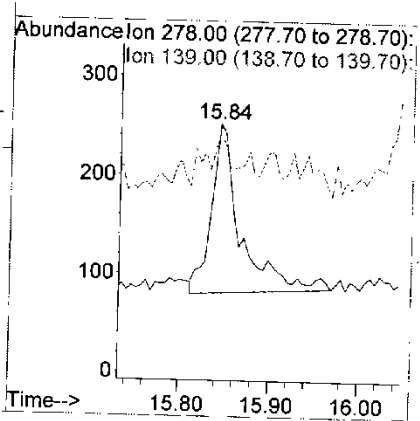
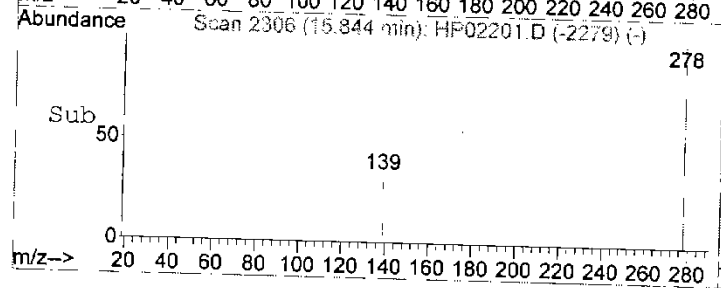
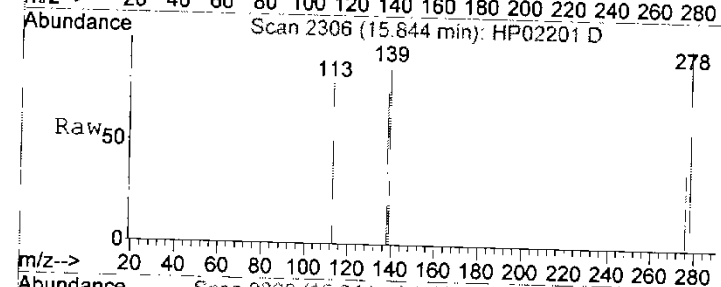
Tgt Ion	Resp	Lower	Upper
276	100		
138	35.6	0.0	56.1





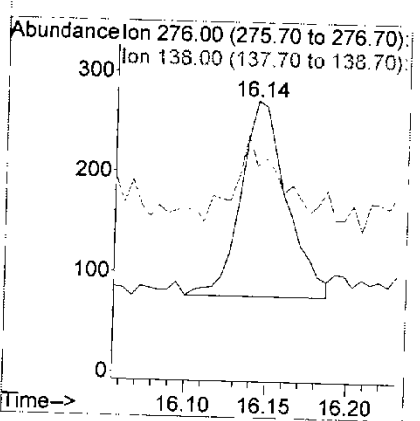
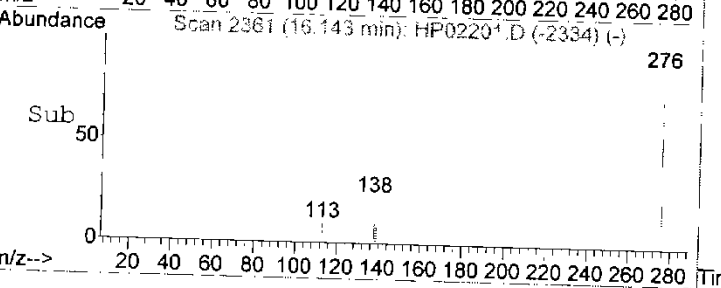
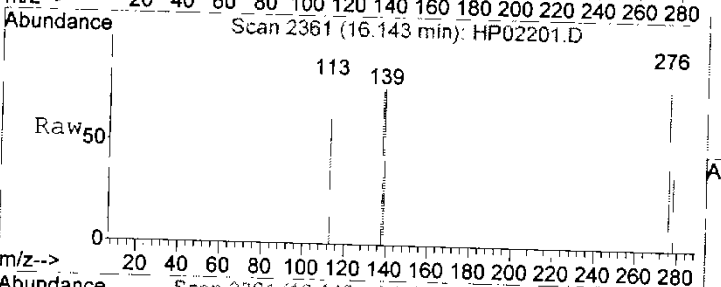
#27
 Dibenz(a,h)anthracene
 Concen: 0.51 ug/L
 RT: 15.84 min Scan# 2306
 Delta R.T. -0.01 min
 Lab File: HP02201.D
 Acq: 25 Aug 2006 13:21

Tgt Ion	Resp	Lower	Upper
278	100		
139	35.3	0.0	50.1



#28
 Benzo(g,h,i)perylene
 Concen: 0.42 ug/L
 RT: 16.14 min Scan# 2361
 Delta R.T. -0.01 min
 Lab File: HP02201.D
 Acq: 25 Aug 2006 13:21

Tgt Ion	Resp	Lower	Upper
276	100		
138	18.4	0.0	58.9



INITIAL CALIBRATION

Method : Y:\METHODS\PAH080106.M (RTE Integrator)
 Title : USEPA Method SIM 8270 Calibration
 Last Update : Tue Aug 01 15:08:26 2006
 Response via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	5	5	100	Y:\DATA\080106_A\HP01995.D
2	10	10	100	Y:\DATA\080106_A\HP01994.D
3	50	50	100	Y:\DATA\080106_A\HP01993.D
4	100	100	100	Y:\DATA\080106_A\HP01992.D
5	500	500	100	Y:\DATA\080106_A\HP01991.D
6	1000	1000	100	Y:\DATA\080106_A\HP01990.D
7	5000	5000	100	Y:\DATA\080106_A\HP01989.D

#	ID	Update Time	Quant Time	Acquisition Time
1	5	Aug 01 15:06 2006	Aug 01 15:06 2006	
2	10	Aug 01 14:39 2006	Aug 01 14:39 2006	
3	50	Aug 01 14:14 2006	Aug 01 14:14 2006	
4	100	Aug 01 14:01 2006	Aug 01 14:01 2006	
5	500	Aug 01 14:01 2006	Aug 01 14:01 2006	
6	1000	Aug 01 14:01 2006	Aug 01 14:01 2006	
7	5000	Aug 01 14:01 2006	Aug 01 14:01 2006	

PAH080106.M

Wed Aug 02 09:54:14 2006

Injection Log

Directory: Y:\DATA\080106_A

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	2	Hp01988.d	1.	dftpp	BT=S23062606	1 Aug 2006 11:32
2	3	Hp01989.d	1.	1281-33-8 5000 SIM PAH ical	BT=S23062606	1 Aug 2006 12:00
3	4	Hp01990.d	1.	1281-33-7 1000 SIM PAH ical	BT=S23062606	1 Aug 2006 12:27
4	5	Hp01991.d	1.	1281-33-6 500 SIM PAH ical	BT=S23062606	1 Aug 2006 12:54
5	6	Hp01992.d	1.	1281-33-5 100 SIM PAH ical	BT=S23062606	1 Aug 2006 13:22
6	7	Hp01993.d	1.	1281-33-4 50 SIM PAH ical	BT=S23062606	1 Aug 2006 13:49
7	8	Hp01994.d	1.	1281-33-5 10 SIM PAH ical	BT=S23062606	1 Aug 2006 14:17
8	9	Hp01995.d	1.	1281-33-4 5 SIM PAH ical	BT=S23062606	1 Aug 2006 14:44
9	10	Hp01996.d	1.	1281-33-10 500 SIM PAH icv/ocs	BT=S23062606	1 Aug 2006 15:11

Method : Y:\METHODS\PAH080106.M (RTE Integrator)
 Title : USEPA Method SIM 8270 Calibration
 Last Update : Tue Aug 01 15:08:26 2006
 Response via : Initial Calibration

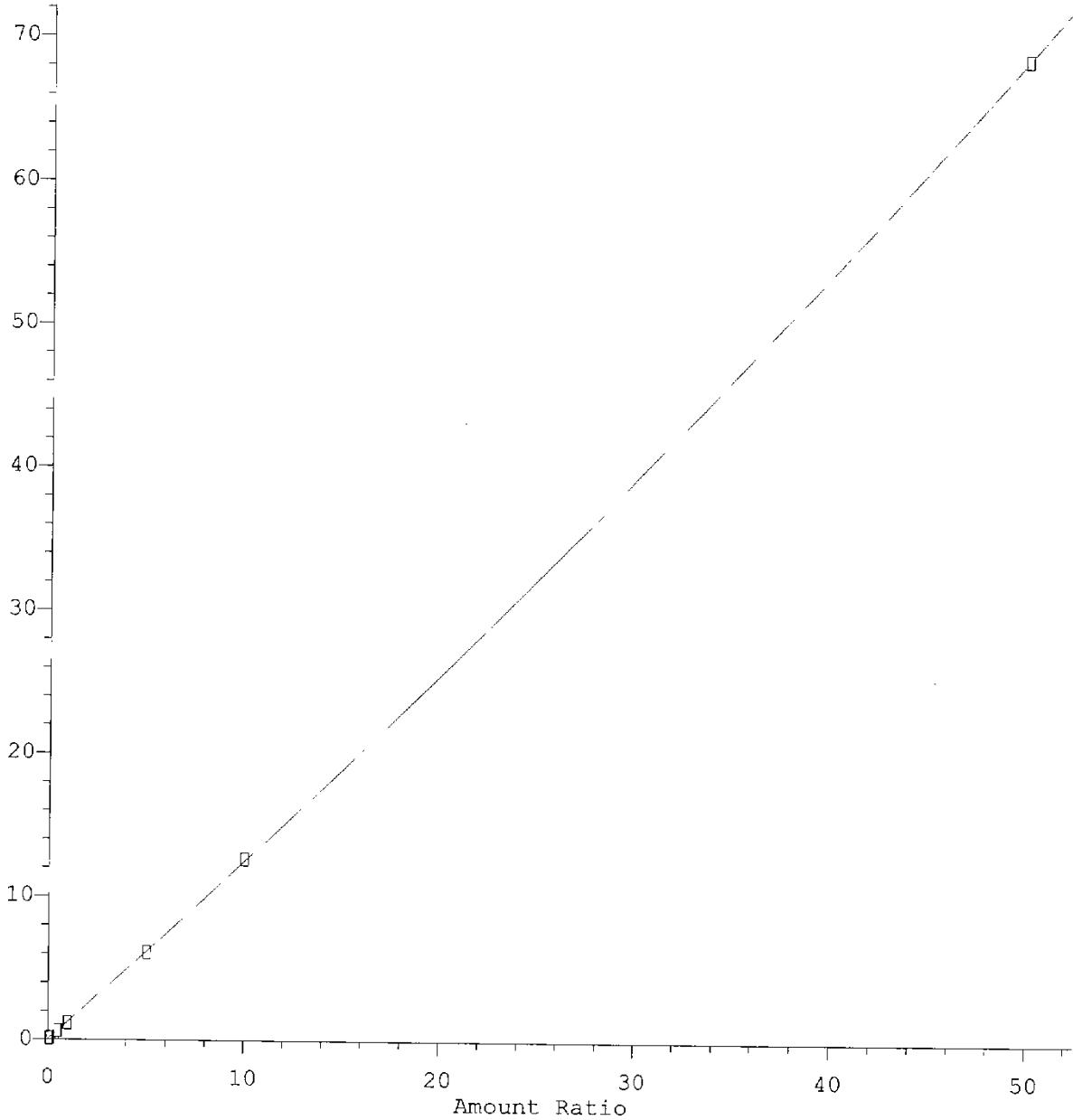
Calibration Files

5 =HP01995.D 10 =HP01994.D 50 =HP01993.D
 100 =HP01992.D 500 =HP01991.D 1000 =HP01990.D

Compound	5	10	50	100	500	1000	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	-----ISTD-----							
2) I Naphthalene-d8 (I)	-----ISTD-----							
3) S Nitrobenzene -	0.319	0.303	0.310	0.309	0.331	0.343	0.329	9.33
4) T Naphthalene	1.129	1.019	1.011	0.976	1.012	1.028	1.041	5.50
5) T 2-Methylnaphtha	0.614	0.524	0.528	0.519	0.556	0.572	0.562	7.58
6) T 1-Methylnaphtha	0.630	0.543	0.551	0.538	0.576	0.592	0.580	6.66
7) I Acenaphthene-d10 (I)	-----ISTD-----							
8) S 2 - Fluorobiphe	1.529	1.284	1.291	1.272	1.300	1.343	1.354	7.40
9) T Acenaphthylene	2.020	1.660	1.618	1.640	1.760	1.872	1.818	11.40
10) TC Acenaphthene	1.572	1.189	1.158	1.133	1.181	1.227	1.258	12.31
11) T Fluorene	1.660	1.191	1.154	1.135	1.223	1.295	1.297	14.45
12) I Phenanthrene-d10 (I)	-----ISTD-----							
13) T Phenanthrene	1.900	1.413	1.273	1.173	1.219	1.262	1.373	17.98 Q
14) T Anthracene	1.485	1.264	1.119	1.042	1.184	1.241	1.246	12.18
15) TC Fluoranthene	1.954	1.463	1.226	1.115	1.234	1.311	1.392	19.86 Q
16) T Pyrene	2.238	1.652	1.379	1.242	1.374	1.446	1.557	21.13 Q
17) S Terphenyl - d14	1.133	0.683	0.713	0.689	0.753	0.782	0.801	19.75 Q
18) I Chrysene-d12 (I)	-----ISTD-----							
19) T Benzo(a)anthrac	1.516	1.318	0.998	0.924	1.019	1.067	1.144	18.22 Q
20) T Chrysene	2.016	1.775	1.284	1.125	1.134	1.136	1.371	26.94 Q
21) I Perylene-d12 (I)	-----ISTD-----							
22) T Benzo(b)fluoran	1.739	1.458	1.048	0.996	1.127	1.188	1.280	20.78 Q
23) T Benzo(k)fluoran	1.830	1.529	1.280	1.114	1.238	1.319	1.387	16.88 Q
24) T Benzofluoranthe	1.829	1.529	1.190	1.072	1.193	1.262	1.355	19.06 Q
25) TC Benzo(a)pyrene	1.160	1.058	0.829	0.786	0.976	1.070	1.011	15.56 Q
26) T Indeno(1,2,3-cd	1.119	0.907	0.725	0.686	0.872	0.982	0.910	18.13 Q
27) T Dibenz(a,h)anth	1.190	1.081	0.901	0.863	1.026	1.127	1.043	11.64
28) T Benzo(g,h,i)per	1.573	1.393	1.129	1.043	1.164	1.246	1.242	14.69

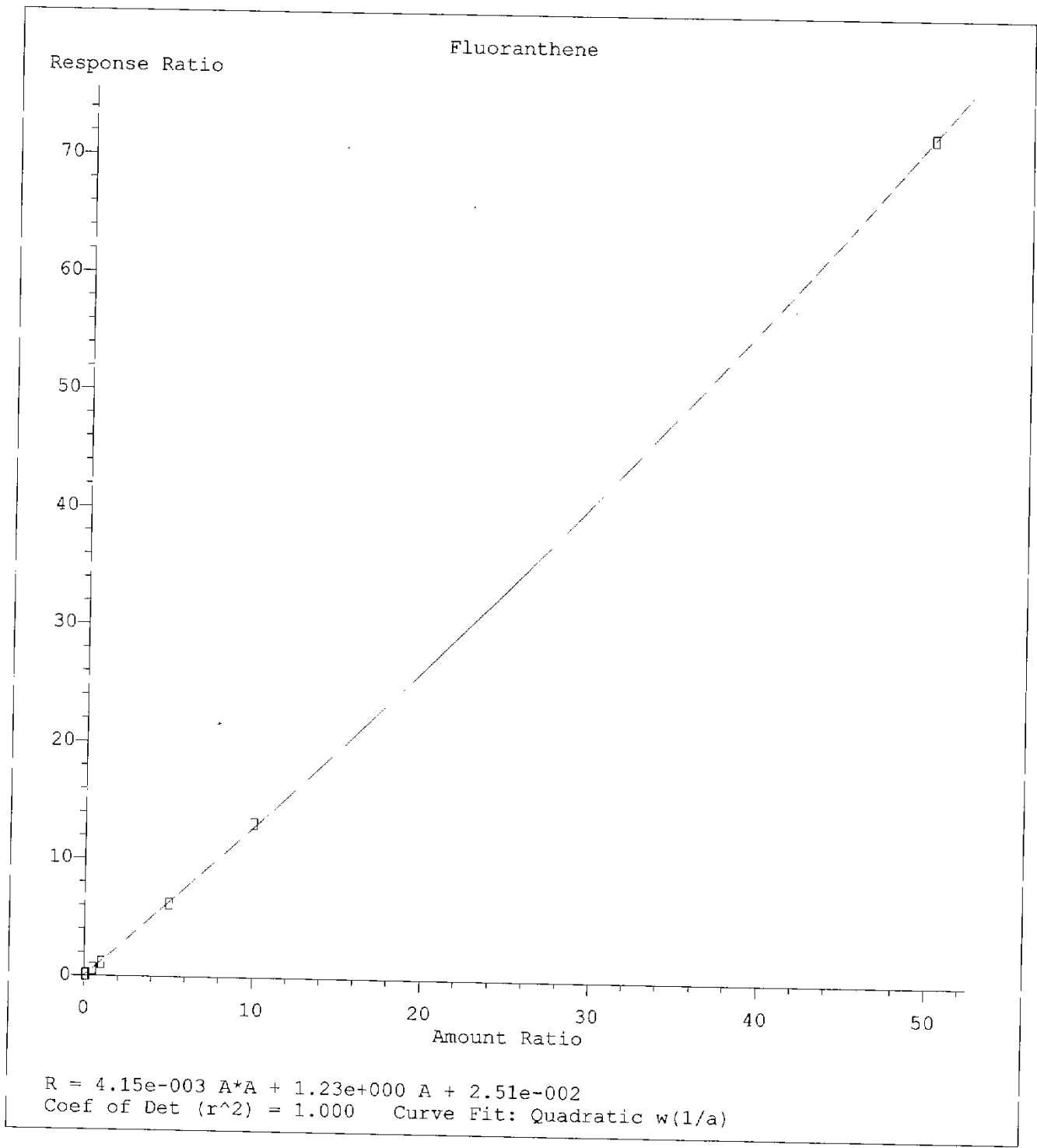
Phenanthrene

Response Ratio

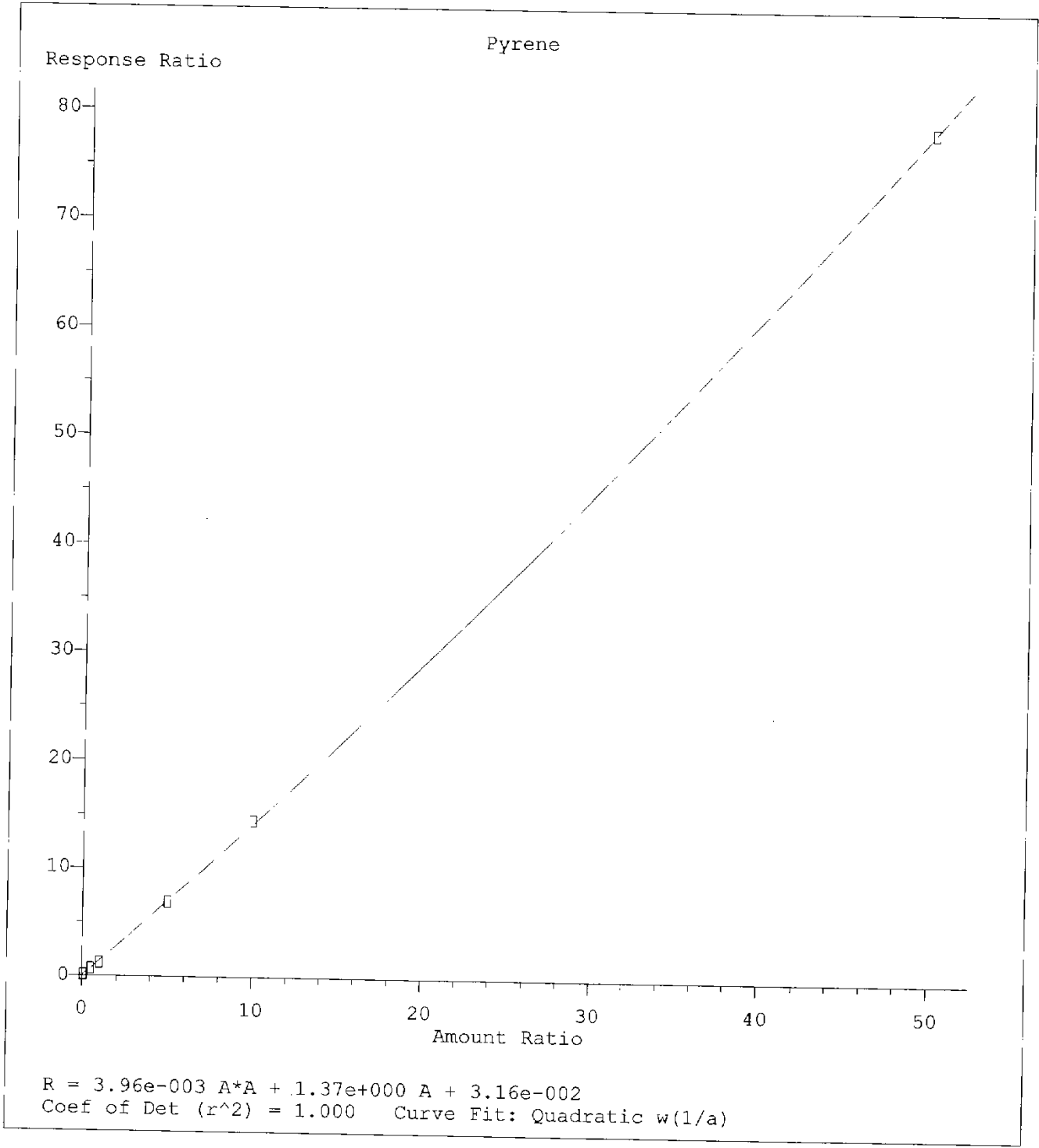


$R = 3.21e-003 A^2 + 1.21e+000 A + 2.76e-002$
Coef of Det (r^2) = 1.000 Curve Fit: Quadratic w(1/a)

Method Name: Y:\METHODS\PAH080106.M
Calibration Table Last Updated: Tue Aug 01 15:08:26 2006



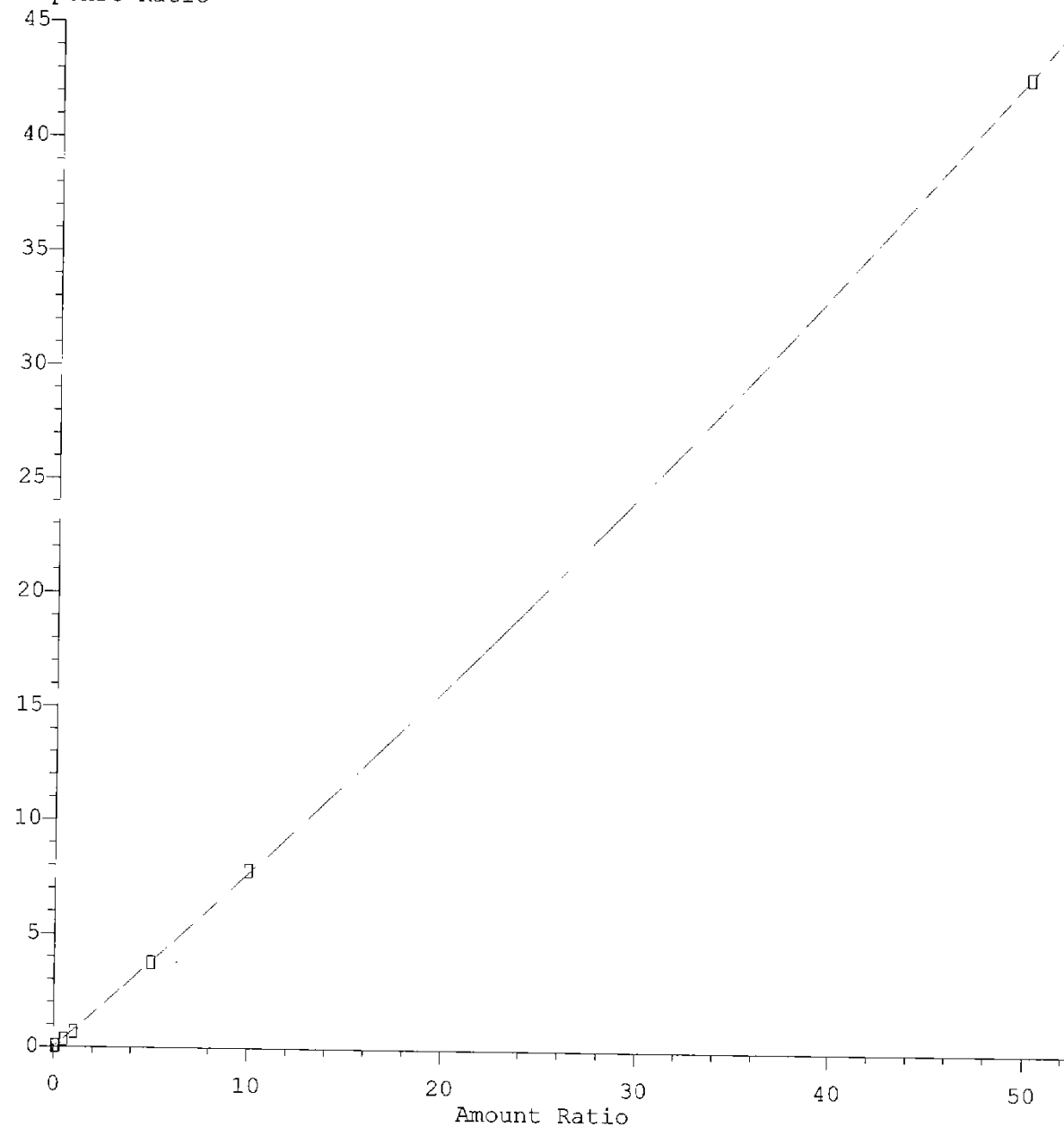
Method Name: Y:\METHODS\PAH080106.M
Calibration Table Last Updated: Tue Aug 01 15:08:26 2006



Method Name: Y:\METHODS\PAH080106.M
Calibration Table Last Updated: Tue Aug 01 15:08:26 2006

Terphenyl - d14 (S)

Response Ratio

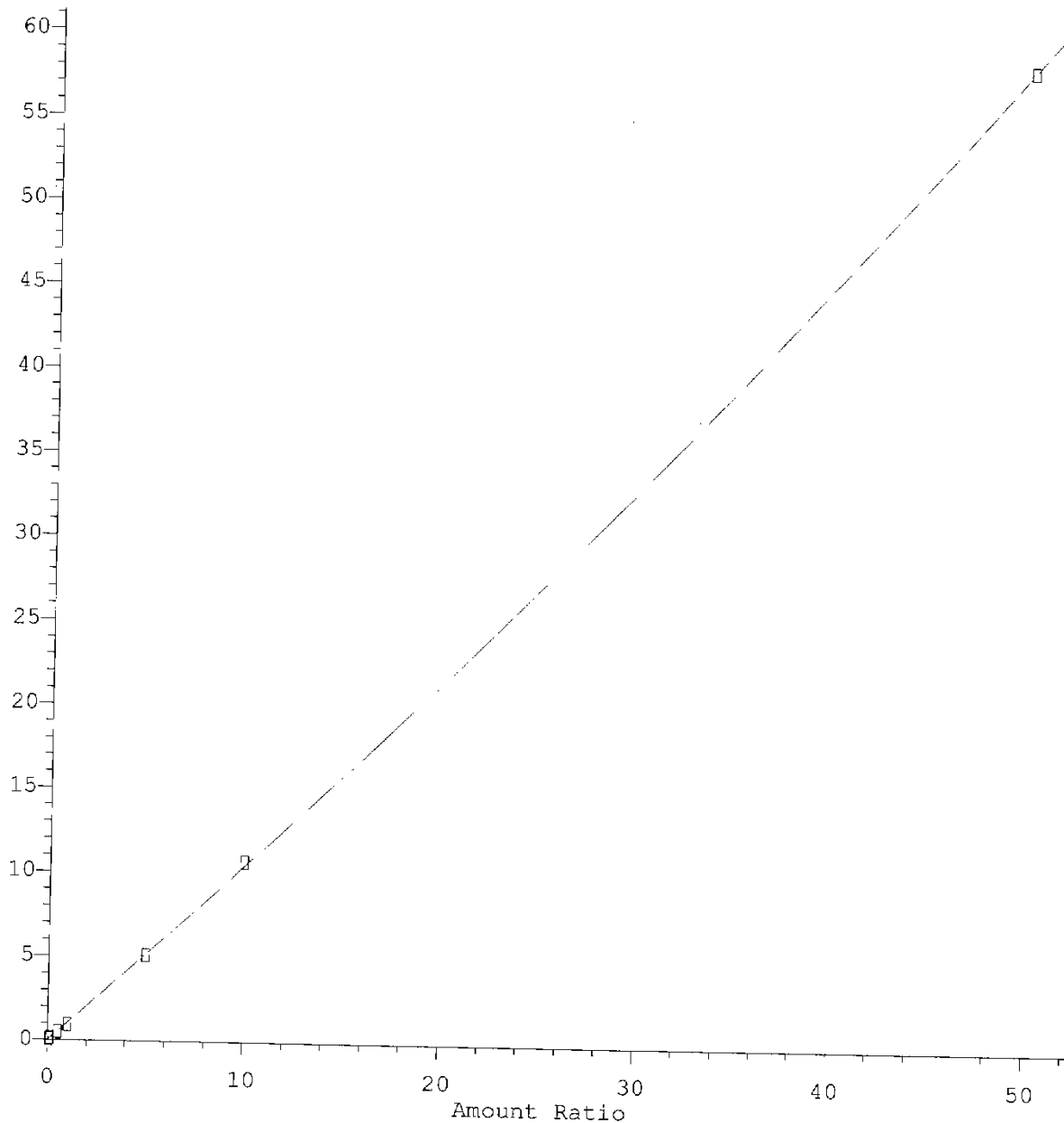


$R = 2.26e-003 A^2 + 7.45e-001 A + 7.36e-003$
Coef of Det (r^2) = 1.000 Curve Fit: Quadratic w(1/a)

Method Name: Y:\METHODS\PAH080106.M
Calibration Table Last Updated: Tue Aug 01 15:08:26 2006

Benzo(a)anthracene

Response Ratio

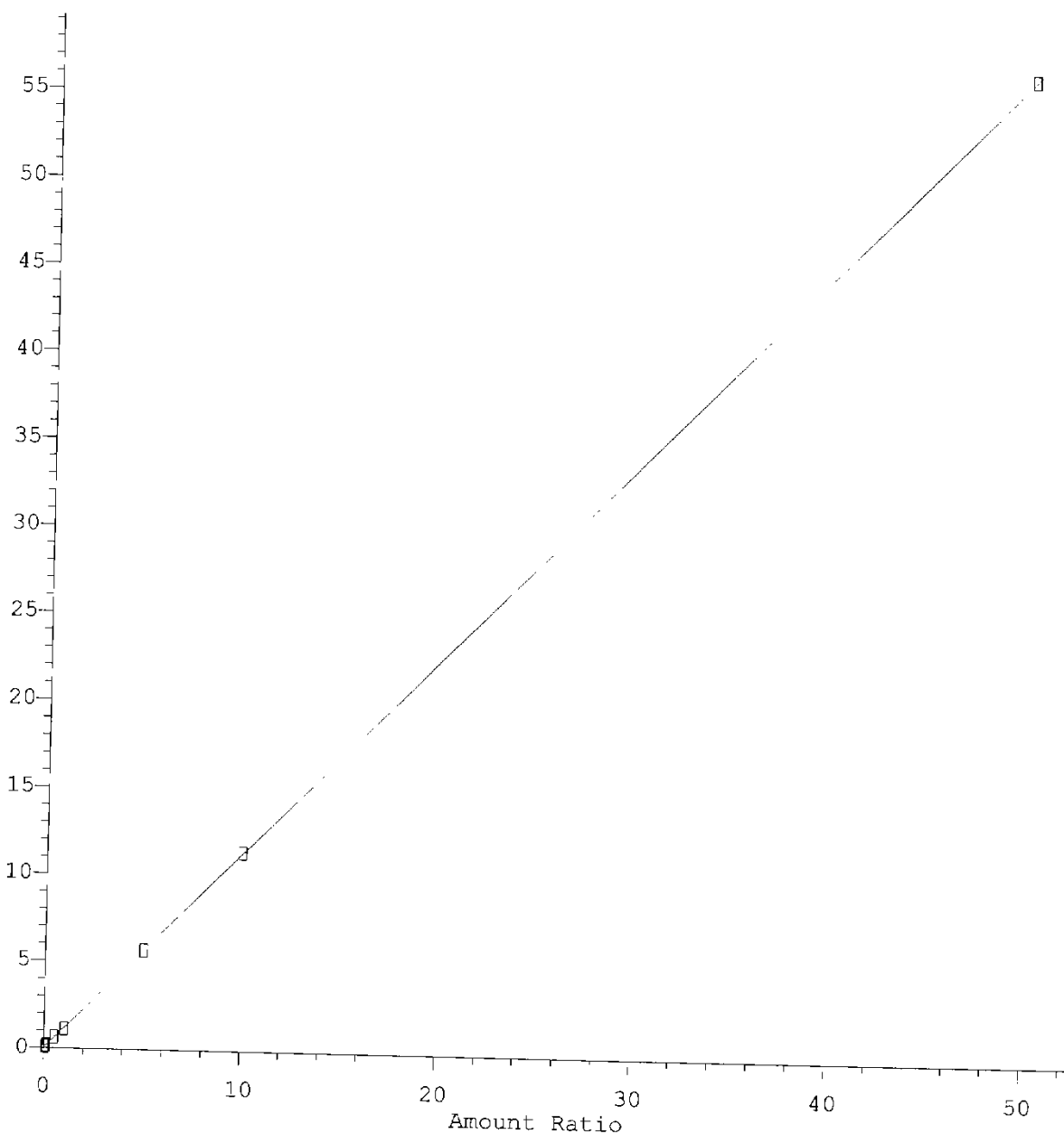


$R = 3.07e-003 A^2 + 1.01e+000 A + 2.17e-002$
Coef of Det (r^2) = 1.000 Curve Fit: Quadratic w(1/a)

Method Name: Y:\METHODS\PAH080106.M
Calibration Table Last Updated: Tue Aug 01 15:08:26 2006

Chrysene

Response Ratio

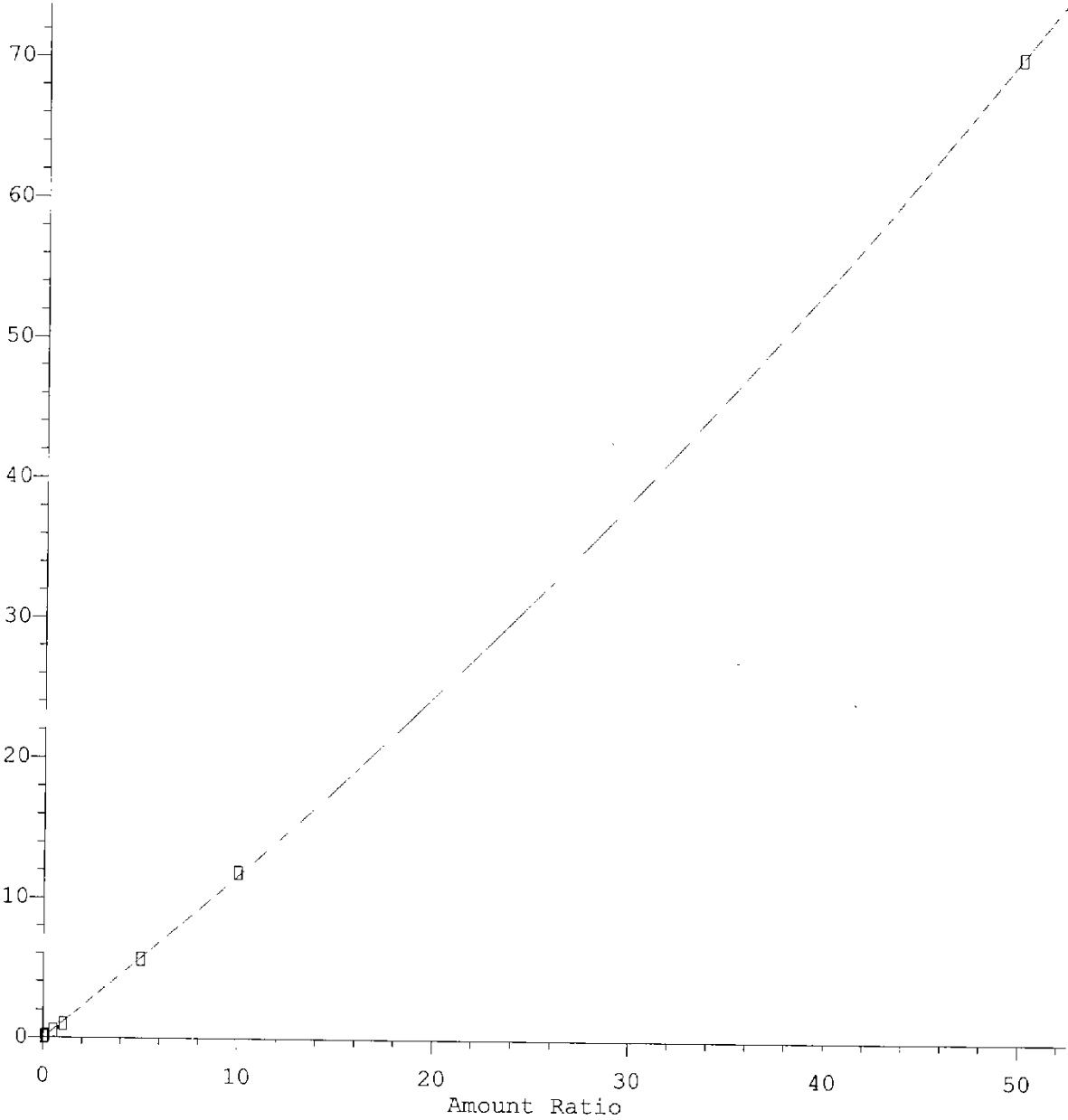


$R = -1.21e-005 A^2 + 1.13e+000 A + 5.13e-002$
Coef of Det (r^2) = 1.000 Curve Fit: Quadratic w(1/a)

Method Name: Y:\METHODS\PAH080106.M
Calibration Table Last Updated: Tue Aug 01 15:08:26 2006

Benzo(b) fluoranthene

Response Ratio

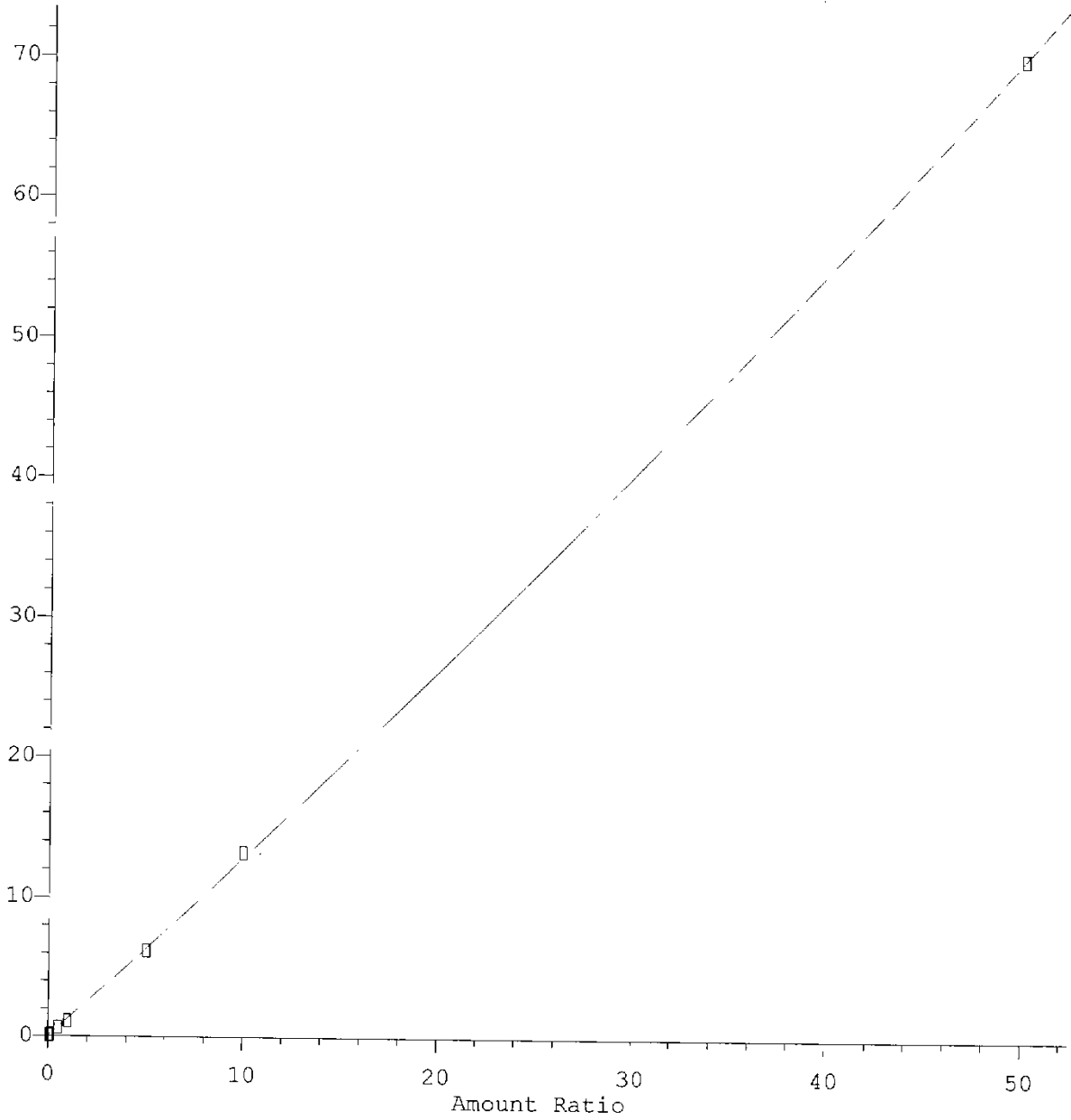


$R = 6.10e-003 A^2 + 1.10e+000 A + 2.58e-002$
Coef of Det (r^2) = 1.000 Curve Fit: Quadratic w(1/a)

Method Name: Y:\METHODS\PAH080106.M
Calibration Table Last Updated: Tue Aug 01 15:08:26 2006

Benzo(k) fluoranthene

Response Ratio

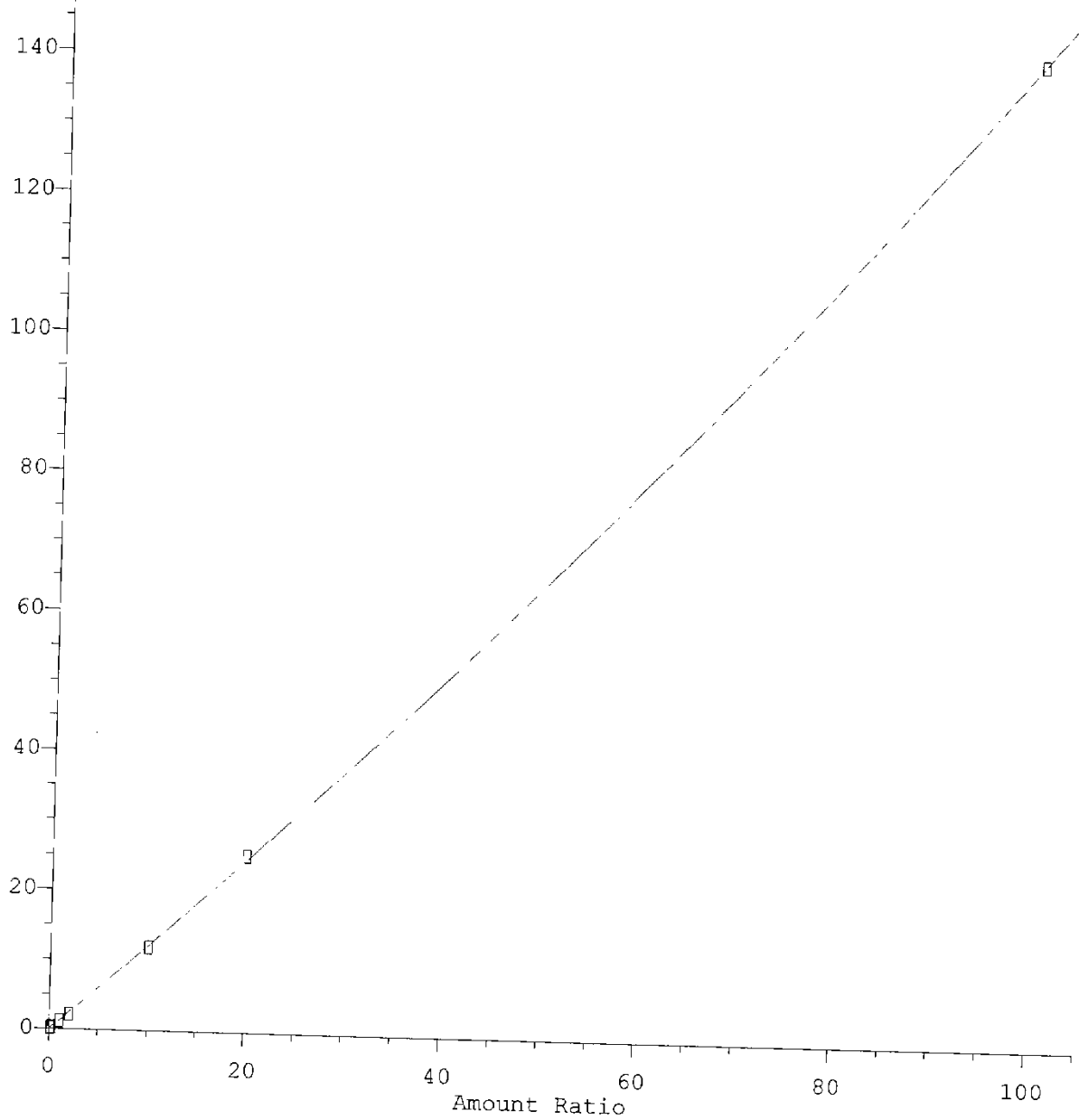


$R = 3.01e-003 A^2 + 1.25e+000 A + 2.29e-002$
Coef of Det (r^2) = 1.000 Curve Fit: Quadratic w(1/a)

Method Name: Y:\METHODS\PAH080106.M
Calibration Table Last Updated: Tue Aug 01 15:08:26 2006

Benzofluoranthenes

Response Ratio

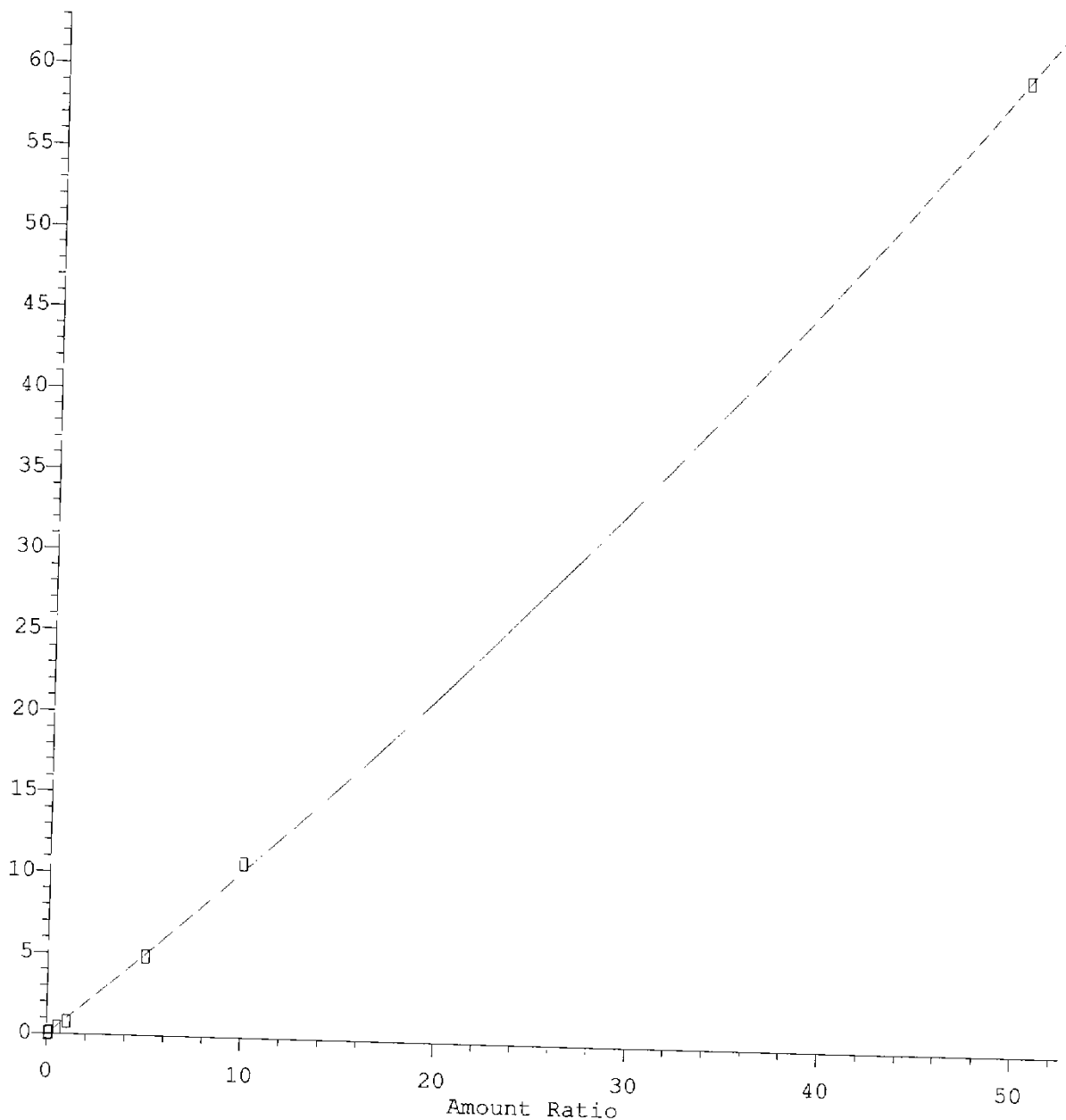


$R = 2.22e-003 A^2 + 1.19e+000 A + 5.35e-002$
Coef of Det (r^2) = 1.000 Curve Fit: Quadratic w(1/a)

Method Name: Y:\METHODS\PAH080106.M
Calibration Table Last Updated: Tue Aug 01 15:08:26 2006

Benzo(a)pyrene

Response Ratio

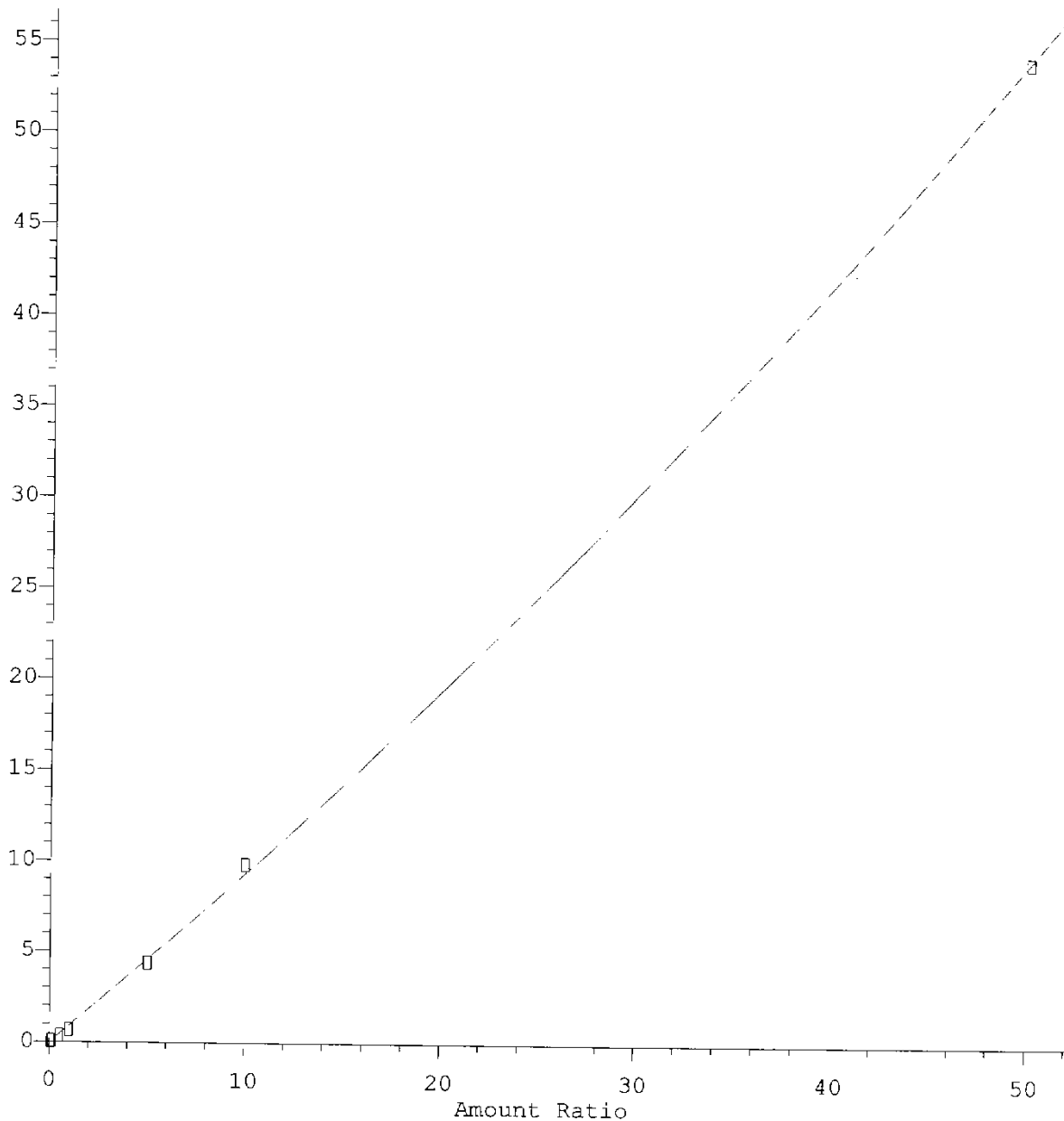


$R = 4.42e-003 A^2 + 9.81e-001 A - 2.44e-003$
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)

Method Name: Y:\METHODS\PAH080106.M
Calibration Table Last Updated: Tue Aug 01 15:08:26 2006

Indeno(1,2,3-cd)pyrene

Response Ratio



$R = 3.80e-003 A^2 + 8.91e-001 A - 3.59e-003$
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)

Method Name: Y:\METHODS\PAH080106.M
Calibration Table Last Updated: Tue Aug 01 15:08:26 2006

Data File : Y:\DATA\080106_A\HP01989.D
 Acq On : 1 Aug 2006 12:00
 Sample : 1281-33-8 5000 SIM PAH ical
 Misc : BT=S23062606

Vial: 3
 Operator: RBF
 Inst : SEA023
 Multiplr: 1.00

MS Integration Params: RTEINT.P
 Quant Time: Aug 01 15:09:04 2006

Quant Results File: PAH080106.RES

Quant Method : Y:\METHODS\PAH080106.M (RTE Integrator)
 Title : USEPA Method SIM 8270 Calibration
 Last Update : Tue Aug 01 15:08:26 2006
 Response via : Initial Calibration
 DataAcq Meth : PAHSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (I)	5.99	152	20747	100.00	ug/L	0.00
2) Naphthalene-d8 (I)	7.09	136	75667	100.00	ug/L	0.00
7) Acenaphthene-d10 (I)	8.56	162	38318	100.00	ug/L	0.00
12) Phenanthrene-d10 (I)	9.93	188	55559	100.00	ug/L	0.00
18) Chrysene-d12 (I)	12.87	240	65597	100.00	ug/L	0.00
21) Perylene-d12 (I)	14.76	264	55210	100.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene - d5 (S)	6.47	82	1481608	5943.50	ug/L	-0.01
8) 2 - Fluorobiphenyl (S)	7.99	172	2793274	5384.73	ug/L	0.00
17) Terphenyl - d14 (S)	11.67	244	2381483	4997.57	ug/L	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	7.10	128	4212948	5347.75	ug/L	87
5) 2-Methylnaphthalene	7.68	141	2352527	5533.48	ug/L	91
6) 1-Methylnaphthalene	7.77	141	2378148	5420.46	ug/L	83
9) Acenaphthylene	8.43	152	4130415	5929.28	ug/L	97
10) Acenaphthene	8.58	153	2578802	5349.49	ug/L	97
11) Fluorene	9.04	166	2725557	5483.46	ug/L	78
13) Phenanthrene	9.96	178	3811677	4998.45	ug/L	86
14) Anthracene	10.01	178	3847009	5557.47	ug/L	88
15) Fluoranthene	11.22	202	3999490	4996.77	ug/L	98
16) Pyrene	11.48	202	4351298	4996.94	ug/L	81
19) Benzo(a)anthracene	12.86	228	3819395	4997.19	ug/L	94
20) Chrysene	12.91	228	3697561	4999.47	ug/L	95
22) Benzo(b)fluoranthene	14.20	252	3874197	4997.44	ug/L	89
23) Benzo(k)fluoranthene	14.24	252	3863532	4996.46	ug/L	95
24) Benzofluoranthenes	14.22	252	7765103	9994.20	ug/L	96
25) Benzo(a)pyrene	14.68	252	3313887	4994.87	ug/L	98
26) Indeno(1,2,3-cd)pyrene	16.38	276	2979570	4993.45	ug/L	95
27) Dibenz(a,h)anthracene	16.41	278	3082486	5351.33	ug/L	87
28) Benzo(g,h,i)perylene	16.77	276	3169900	4621.88	ug/L	87

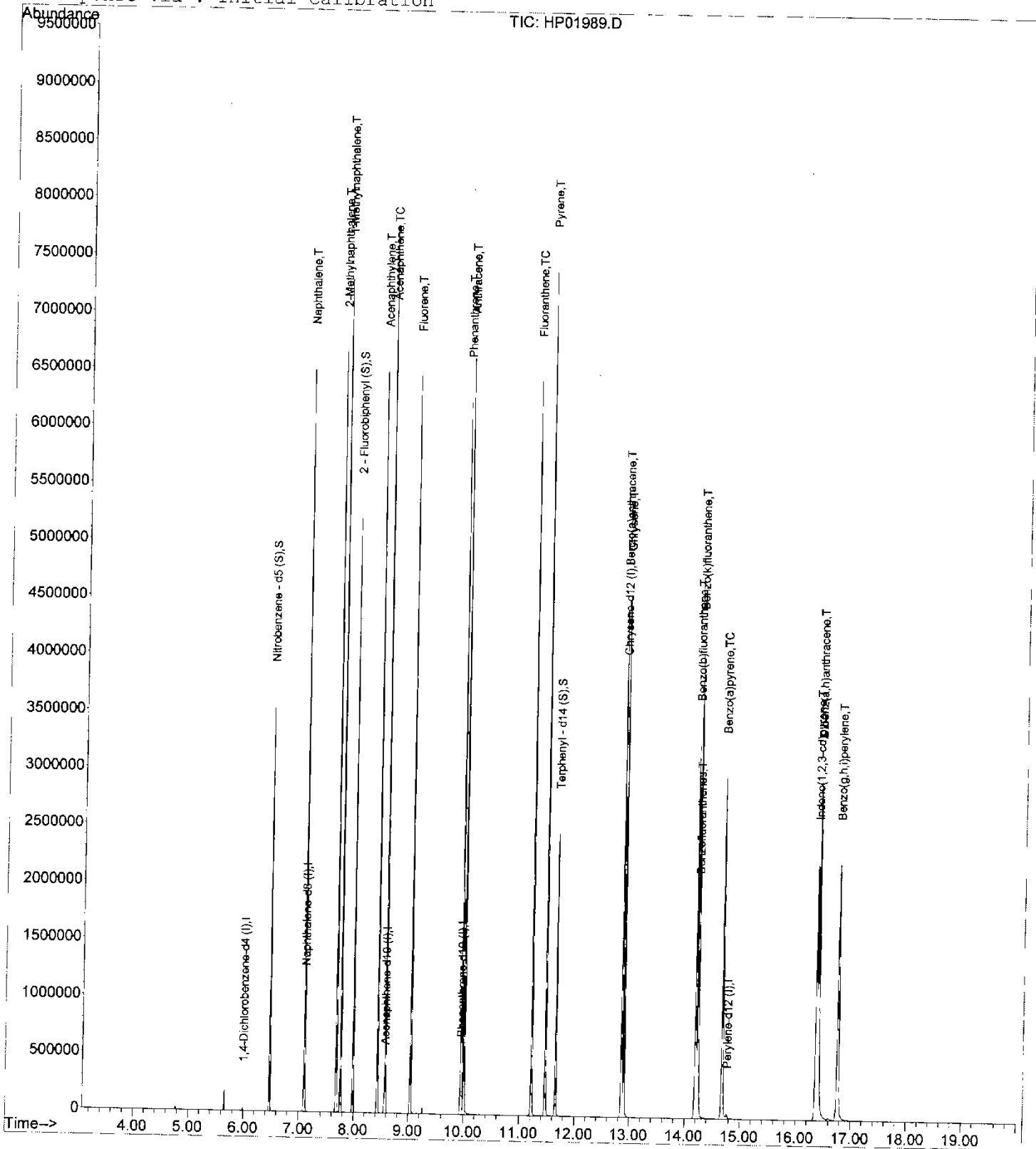
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : Y:\DATA\080106_A\HP01989.D
 Acq On : 1 Aug 2006 12:00
 Sample : 1281-33-8 5000 SIM PAH ical
 Misc : BT=S23062606
 MS Integration Params: RTEINT.P
 Quant Time: Aug 1 15:09 2006

Vial: 3
 Operator: RBF
 Inst : SEA023
 Multiplr: 1.00

Quant Results File: PAH080106.RES

Method : Y:\METHODS\PAH080106.M (RTE Integrator)
 Title : USEPA Method SIM 8270 Calibration
 Last Update : Tue Aug 01 15:08:26 2006
 Response via : Initial Calibration



Data File : Y:\DATA\080106_A\HP01990.D
 Acq On : 1 Aug 2006 12:27
 Sample : 1281-33-7 1000 SIM PAH ical
 Misc : BT=S23062606

Vial: 4
 Operator: RBF
 Inst : SEA023
 Multiplr: 1.00

MS Integration Params: RTEINT.P
 Quant Time: Aug 01 15:09:11 2006

Quant Results File: PAH080106.RES

Quant Method : Y:\METHODS\PAH080106.M (RTE Integrator)
 Title : USEPA Method SIM 8270 Calibration
 Last Update : Tue Aug 01 15:08:26 2006
 Response via : Initial Calibration
 DataAcq Meth : PAHSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (I)	6.00	152	17045	100.00	ug/L	0.00
2) Naphthalene-d8 (I)	7.09	136	62603	100.00	ug/L	0.00
7) Acenaphthene-d10 (I)	8.56	162	32458	100.00	ug/L	0.00
12) Phenanthrene-d10 (I)	9.93	188	48724	100.00	ug/L	0.00
18) Chrysene-d12 (I)	12.87	240	54589	100.00	ug/L	0.00
21) Perylene-d12 (I)	14.76	264	50094	100.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene - d5 (S)	6.47	82	214645	1040.74	ug/L	-0.01
8) 2 - Fluorobiphenyl (S)	7.99	172	435803	991.79	ug/L	0.00
17) Terphenyl - d14 (S)	11.66	244	380860	1017.24	ug/L	0.00

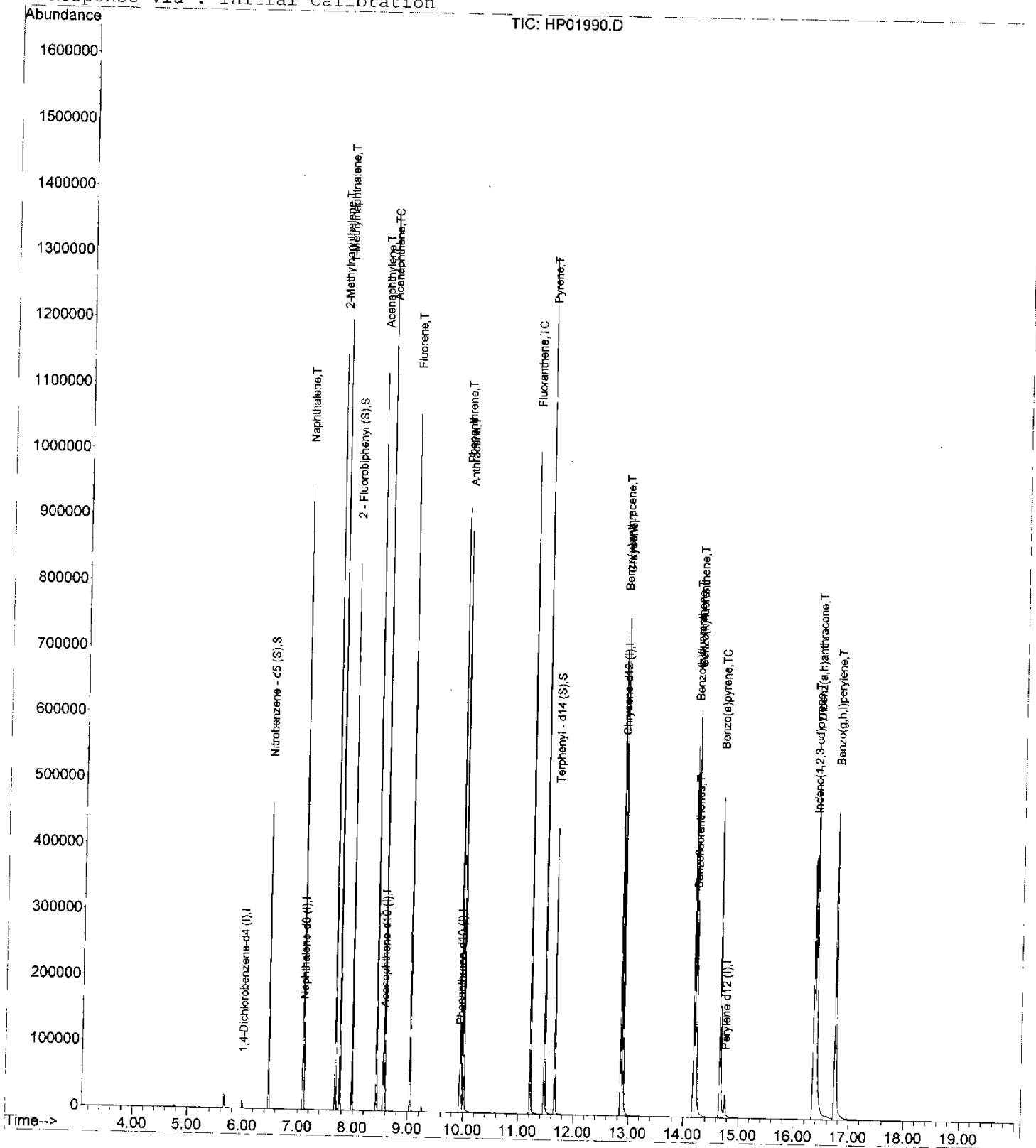
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	7.11	128	643450	987.21	ug/L	82
5) 2-Methylnaphthalene	7.69	141	357916	1017.55	ug/L	94
6) 1-Methylnaphthalene	7.77	141	370585	1020.93	ug/L	83
9) Acenaphthylene	8.43	152	607639	1029.76	ug/L	97
10) Acenaphthene	8.58	153	398345	975.52	ug/L	94
11) Fluorene	9.04	166	420196	998.00	ug/L	93
13) Phenanthrene	9.96	178	615046	1012.52	ug/L	82
14) Anthracene	10.01	178	604696	996.10	ug/L	84
15) Fluoranthene	11.22	202	638802	1026.14	ug/L	92
16) Pyrene	11.47	202	704313	1023.50	ug/L	73
19) Benzo(a)anthracene	12.86	228	582605	1021.35	ug/L	93
20) Chrysene	12.90	228	620292	1003.75	ug/L	99
22) Benzo(b)fluoranthene	14.19	252	595012	1020.78	ug/L	89
23) Benzo(k)fluoranthene	14.23	252	660686	1028.14	ug/L	92
24) Benzofluoranthenes	14.21	252	1264621	2047.19	ug/L	99
25) Benzo(a)pyrene	14.67	252	536154	1042.37	ug/L	99
26) Indeno(1,2,3-cd)pyrene	16.36	276	491887	1054.95	ug/L	90
27) Dibenz(a,h)anthracene	16.40	278	564318	1079.73	ug/L	90
28) Benzo(g,h,i)perylene	16.75	276	624147	1002.98	ug/L	91

Data File : Y:\DATA\080106 A\HP01990.D
Acq On : 1 Aug 2006 12:27
Sample : 1281-33-7 1000 SIM PAH ical
Misc : BT=S23062606
MS Integration Params: RTEINT.P
Quant Time: Aug 1 15:09 2006

Vial: 4
Operator: RBF
Inst : SEA023
Multiplr: 1.00

Quant Results File: PAH080106.RES

Method : Y:\METHODS\PAH080106.M (RTE Integrator)
Title : USEPA Method SIM 8270 Calibration
Last Update : Tue Aug 01 15:08:26 2006
Response via : Initial Calibration



Data File : Y:\DATA\080106_A\HP01991.D
 Acq On : 1 Aug 2006 12:54
 Sample : 1281-33-6 500 SIM PAH ical
 Misc : BT=S23062606

Vial: 5
 Operator: RBF
 Inst : SEA023
 Multiplr: 1.00

MS Integration Params: RTEINT.P
 Quant Time: Aug 01 15:09:19 2006

Quant Results File: PAH080106.RES

Quant Method : Y:\METHODS\PAH080106.M (RTE Integrator)
 Title : USEPA Method SIM 8270 Calibration
 Last Update : Tue Aug 01 15:08:26 2006
 Response via : Initial Calibration
 DataAcq Meth : PAHSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (I)	6.00	152	17608	100.00	ug/L	0.00
2) Naphthalene-d8 (I)	7.09	136	65454	100.00	ug/L	0.00
7) Acenaphthene-d10 (I)	8.56	162	34365	100.00	ug/L	0.00
12) Phenanthrene-d10 (I)	9.93	188	51039	100.00	ug/L	0.00
18) Chrysene-d12 (I)	12.87	240	55270	100.00	ug/L	0.00
21) Perylene-d12 (I)	14.76	264	51363	100.00	ug/L	0.00

System Monitoring Compounds

3) Nitrobenzene - d5 (S)	6.47	82	108330	502.37	ug/L	-0.01
8) 2 - Fluorobiphenyl (S)	7.99	172	223301	479.98	ug/L	0.00
17) Terphenyl - d14 (S)	11.66	244	192220	497.22	ug/L	0.00

Target Compounds

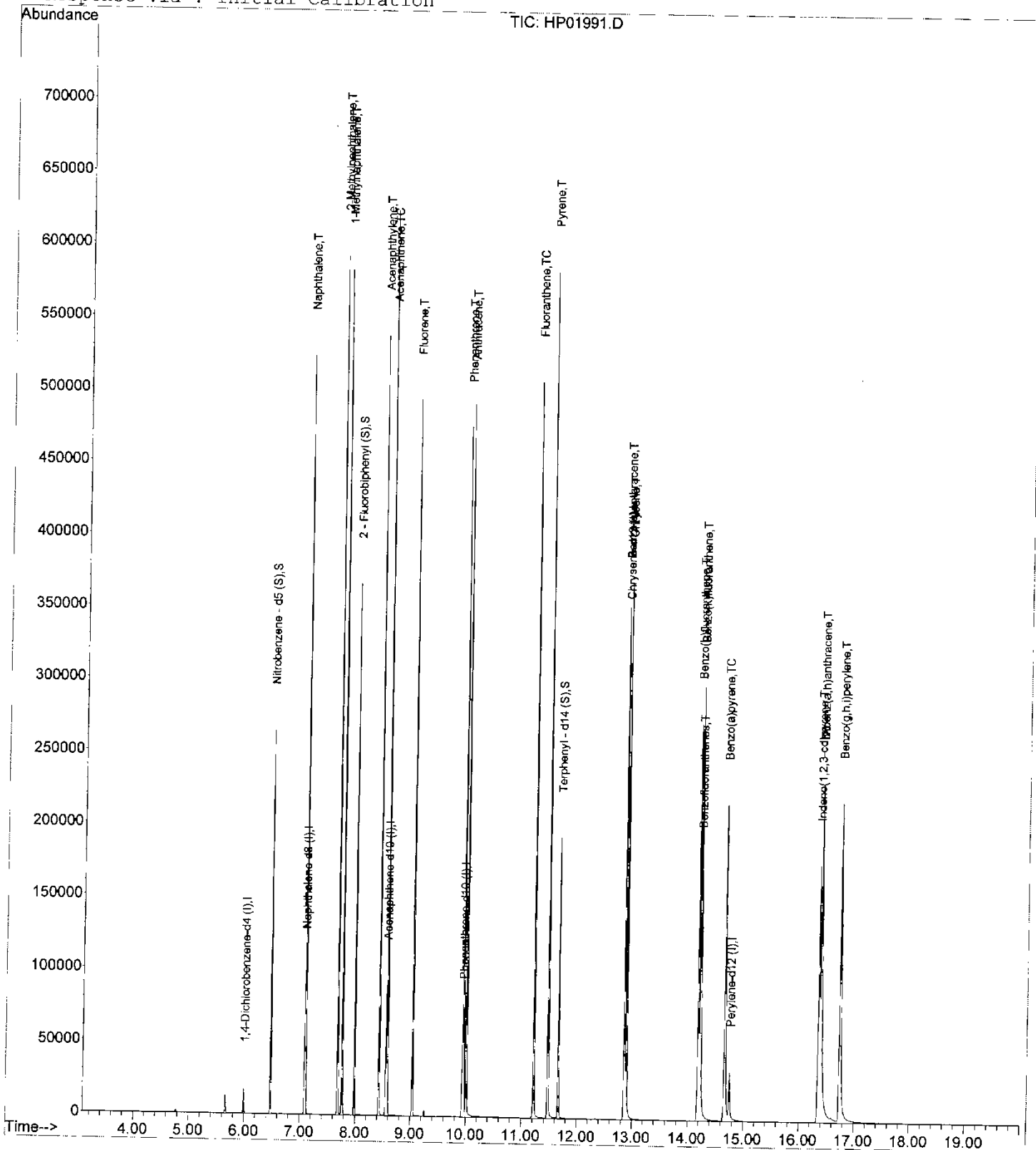
						Qvalue
4) Naphthalene	7.10	128	331069	485.82	ug/L	89
5) 2-Methylnaphthalene	7.68	141	181806	494.36	ug/L	93
6) 1-Methylnaphthalene	7.76	141	188380	496.37	ug/L	95
9) Acenaphthylene	8.43	152	302427	484.08	ug/L	100
10) Acenaphthene	8.58	153	202965	469.46	ug/L	87
11) Fluorene	9.04	166	210083	471.28	ug/L	97
13) Phenanthrene	9.95	178	311181	494.51	ug/L	96
14) Anthracene	10.01	178	302211	475.24	ug/L	92
15) Fluoranthene	11.22	202	314817	490.29	ug/L	95
16) Pyrene	11.47	202	350560	492.50	ug/L	77
19) Benzo(a)anthracene	12.85	228	281478	493.94	ug/L	96
20) Chrysene	12.90	228	313350	498.51	ug/L	97
22) Benzo(b)fluoranthene	14.19	252	289343	496.63	ug/L	90
23) Benzo(k)fluoranthene	14.22	252	317975	487.85	ug/L	90
24) Benzofluoranthenes	14.21	252	612915	984.24	ug/L	96
25) Benzo(a)pyrene	14.67	252	250751	487.23	ug/L	98
26) Indeno(1,2,3-cd)pyrene	16.35	276	224068	480.17	ug/L	88
27) Dibenz(a,h)anthracene	16.40	278	263368	491.46	ug/L	88
28) Benzo(g,h,i)perylene	16.75	276	298855	468.38	ug/L	87

Data File : Y:\DATA\080106_A\HP01991.D
 Acq On : 1 Aug 2006 12:54
 Sample : 1281-33-6 500 SIM PAH ical
 Misc : BT=S23062606
 MS Integration Params: RTEINT.P
 Quant Time: Aug 1 15:09 2006

Vial: 5
 Operator: RBF
 Inst : SEA023
 Multiplr: 1.00

Quant Results File: PAH080106.RES

Method : Y:\METHODS\PAH080106.M (RTE Integrator)
 Title : USEPA Method SIM 8270 Calibration
 Last Update : Tue Aug 01 15:08:26 2006
 Response via : Initial Calibration



Data File : Y:\DATA\080106 A\HP01992.D
 Acq On : 1 Aug 2006 13:22
 Sample : 1281-33-5 100 SIM PAH ical
 Misc : BT=S23062606

Vial: 6
 Operator: RBF
 Inst : SEA023
 Multiplr: 1.00

MS Integration Params: RTEINT.P
 Quant Time: Aug 01 15:09:26 2006

Quant Results File: PAH080106.RES

Quant Method : Y:\METHODS\PAH080106.M (RTE Integrator)
 Title : USEPA Method SIM 8270 Calibration
 Last Update : Tue Aug 01 15:08:26 2006
 Response via : Initial Calibration
 DataAcq Meth : PAHSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (I)	6.00	152	17817	100.00	ug/L	0.00
2) Naphthalene-d8 (I)	7.09	136	65116	100.00	ug/L	0.00
7) Acenaphthene-d10 (I)	8.56	162	32929	100.00	ug/L	0.00
12) Phenanthrene-d10 (I)	9.93	188	49934	100.00	ug/L	0.00
18) Chrysene-d12 (I)	12.87	240	49686	100.00	ug/L	0.00
21) Perylene-d12 (I)	14.76	264	46918	100.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene - d5 (S)	6.47	82	20103	93.71	ug/L	-0.01
8) 2 - Fluorobiphenyl (S)	7.99	172	41874	93.93	ug/L	0.00
17) Terphenyl - d14 (S)	11.66	244	34380	91.21	ug/L	0.00

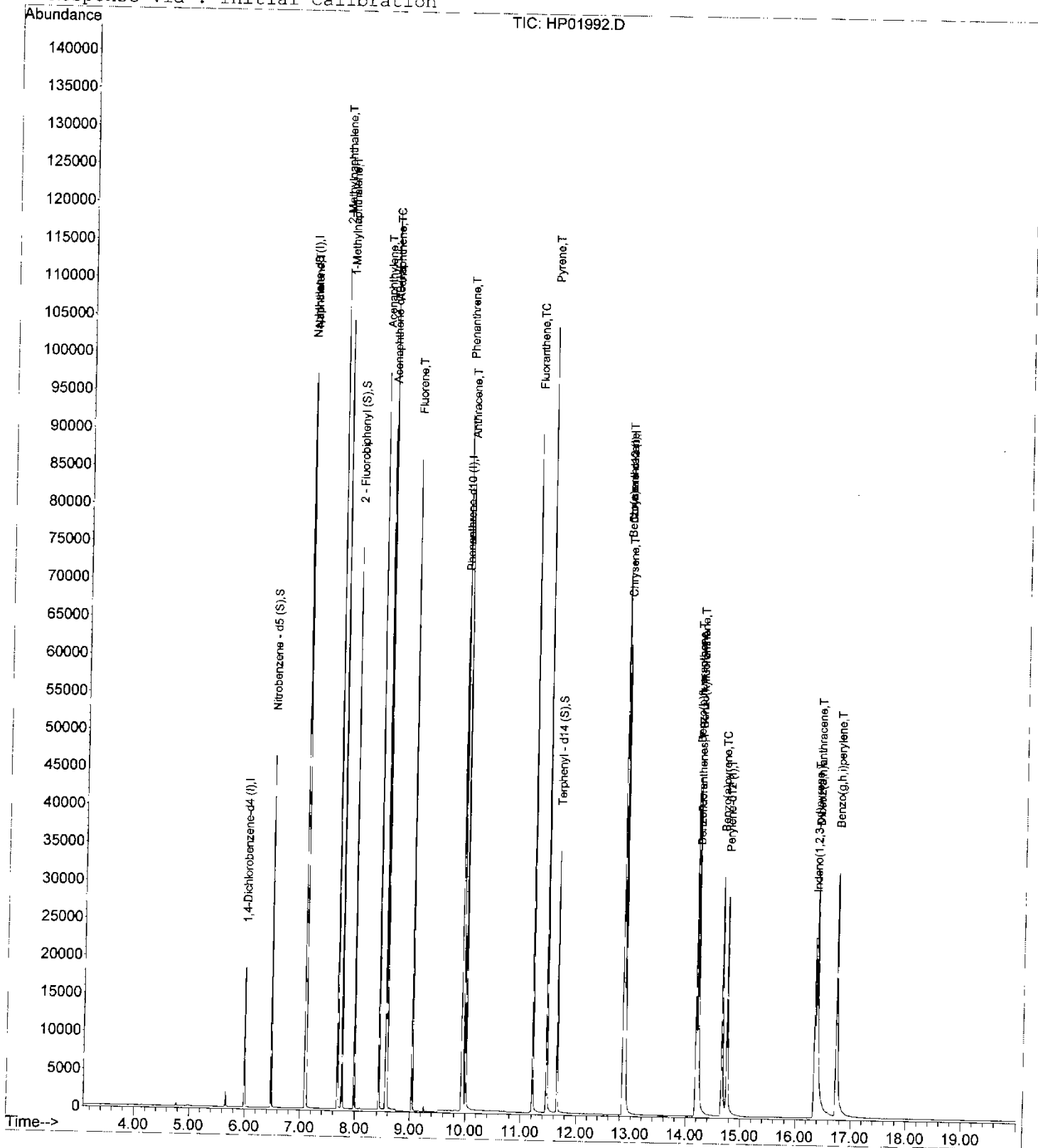
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	7.10	128	63547	93.73	ug/L	90
5) 2-Methylnaphthalene	7.68	141	33793	92.37	ug/L	93
6) 1-Methylnaphthalene	7.76	141	35052	92.84	ug/L	97
9) Acenaphthylene	8.43	152	54004	90.21	ug/L	100
10) Acenaphthene	8.58	153	37298	90.03	ug/L	86
11) Fluorene	9.04	166	37374	87.50	ug/L	99
13) Phenanthrene	9.95	178	58550	94.28	ug/L	93
14) Anthracene	10.00	178	52047	83.66	ug/L	93
15) Fluoranthene	11.22	202	55697	88.19	ug/L	97
16) Pyrene	11.47	202	62013	88.21	ug/L	77
19) Benzo(a)anthracene	12.85	228	45892	88.93	ug/L	96
20) Chrysene	12.90	228	55897	95.27	ug/L	97
22) Benzo(b)fluoranthene	14.18	252	46741	87.88	ug/L	91
23) Benzo(k)fluoranthene	14.22	252	52279	87.16	ug/L	91
24) Benzofluoranthenes	14.21	252	100607	175.84	ug/L	99
25) Benzo(a)pyrene	14.67	252	36873	80.08	ug/L	99
26) Indeno(1,2,3-cd)pyrene	16.35	276	32203	77.18	ug/L	93
27) Dibenz(a,h)anthracene	16.39	278	40473	82.68	ug/L	92
28) Benzo(g,h,i)perylene	16.75	276	48923	83.94	ug/L	92

Data File : Y:\DATA\080106_A\HP01992.D
Acq On : 1 Aug 2006 13:22
Sample : 1281-33-5 100 SIM PAH ical
Misc : BT=S23062606
MS Integration Params: RTEINT.P
Quant Time: Aug 1 15:09 2006

Vial: 6
Operator: RBF
Inst : SEA023
Multiplr: 1.00

Quant Results File: PAH080106.RES

Method : Y:\METHODS\PAH080106.M (RTE Integrator)
Title : USEPA Method SIM 8270 Calibration
Last Update : Tue Aug 01 15:08:26 2006
Response via : Initial Calibration



Data File : Y:\DATA\080106_A\HP01993.D

Acq On : 1 Aug 2006 13:49

Sample : 1281-33-4 50 SIM PAH ical

Misc : BT=S23062606

MS Integration Params: RTEINT.P

Quant Time: Aug 01 15:09:35 2006

Vial: 7

Operator: RBF

Inst : SEA023

Multiplr: 1.00

Quant Results File: PAH080106.RES

Quant Method : Y:\METHODS\PAH080106.M (RTE Integrator)

Title : USEPA Method SIM 8270 Calibration

Last Update : Tue Aug 01 15:08:26 2006

Response via : Initial Calibration

DataAcq Meth : PAHSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (I)	6.00	152	17344	100.00	ug/L	0.00
2) Naphthalene-d8 (I)	7.09	136	62450	100.00	ug/L	0.00
7) Acenaphthene-d10 (I)	8.56	162	32006	100.00	ug/L	0.00
12) Phenanthrene-d10 (I)	9.93	188	48061	100.00	ug/L	0.00
18) Chrysene-d12 (I)	12.87	240	46167	100.00	ug/L	0.00
21) Perylene-d12 (I)	14.76	264	42514	100.00	ug/L	0.00

System Monitoring Compounds

3) Nitrobenzene - d5 (S)	6.47	82	9688	47.09	ug/L	-0.01
8) 2 - Fluorobiphenyl (S)	7.99	172	20663	47.69	ug/L	0.00
17) Terphenyl - d14 (S)	11.66	244	17123	46.78	ug/L	0.00

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	7.10	128	31580	48.57	ug/L	89
5) 2-Methylnaphthalene	7.68	141	16477	46.96	ug/L	93
6) 1-Methylnaphthalene	7.76	141	17210	47.53	ug/L	95
9) Acenaphthylene	8.43	152	25891	44.50	ug/L	100
10) Acenaphthene	8.58	153	18532	46.02	ug/L	85
11) Fluorene	9.04	166	18475	44.50	ug/L	99
13) Phenanthrene	9.95	178	30599	50.21	ug/L	94
14) Anthracene	10.01	178	26902	44.93	ug/L	92
15) Fluoranthene	11.22	202	29455	47.61	ug/L	98
16) Pyrene	11.47	202	33149	48.02	ug/L	80
19) Benzo(a)anthracene	12.85	228	23044	47.14	ug/L	95
20) Chrysene	12.90	228	29642	52.42	ug/L	97
22) Benzo(b)fluoranthene	14.19	252	22274	45.22	ug/L	91
23) Benzo(k)fluoranthene	14.22	252	27211	49.33	ug/L	91
24) Benzofluoranthenes	14.21	252	50582	95.71	ug/L	99
25) Benzo(a)pyrene	14.67	252	17629	42.44	ug/L	98
26) Indeno(1,2,3-cd)pyrene	16.35	276	15404	41.00	ug/L	93
27) Dibenz(a,h)anthracene	16.40	278	19153	43.18	ug/L	88
28) Benzo(g,h,i)perylene	16.75	276	24005	45.45	ug/L	88

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

HP01993.D PAH080106.M

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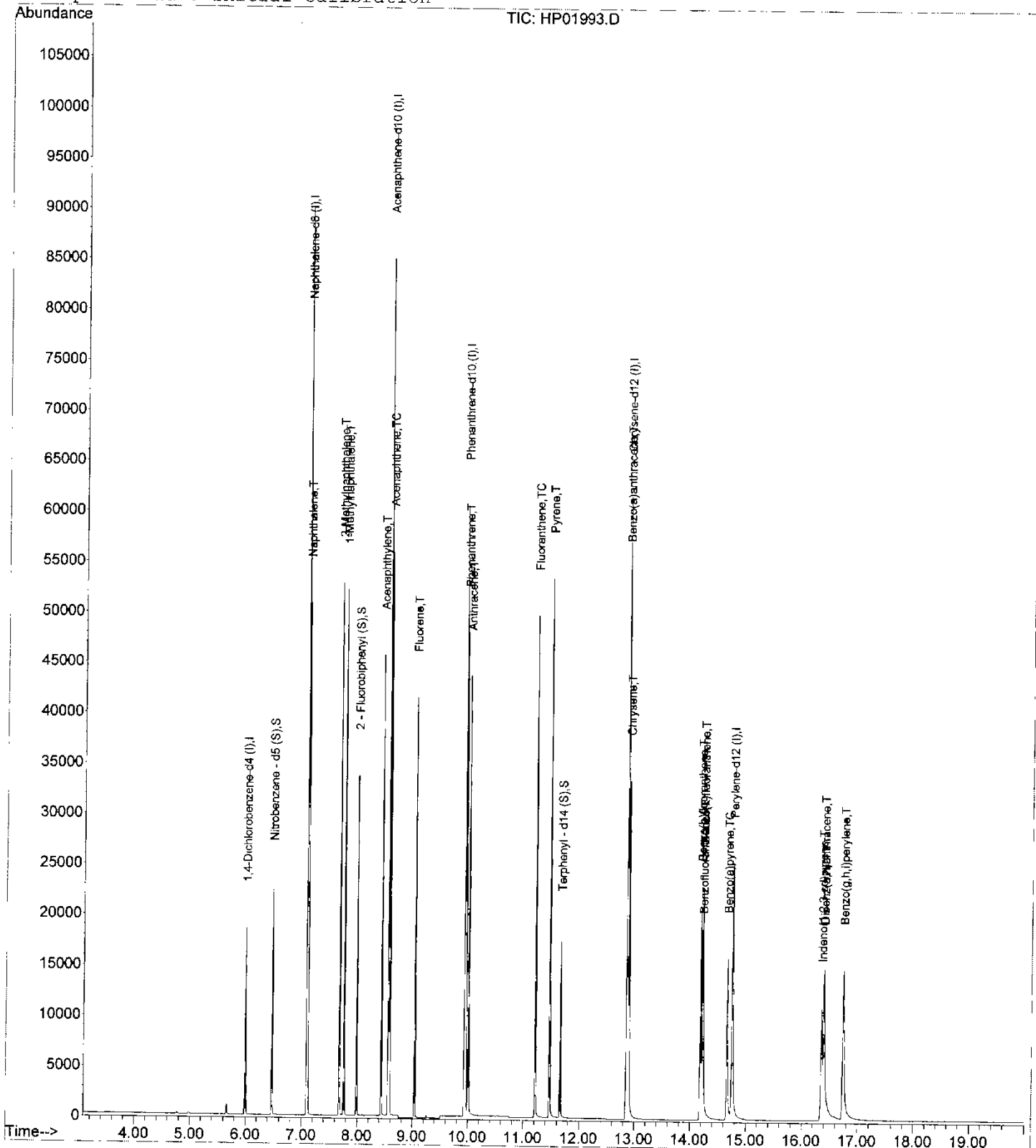
Page 1

Data File : Y:\DATA\080106_A\HP01993.D
 Acq On : 1 Aug 2006 13:49
 Sample : 1281-33-4 50 SIM PAH ical
 Misc : BT=S23062606
 MS Integration Params: RTEINT.P
 Quant Time: Aug 1 15:09 2006

Vial: 7
 Operator: RBF
 Inst : SEA023
 Multiplr: 1.00

Quant Results File: PAH080106.RES

Method : Y:\METHODS\PAH080106.M (RTE Integrator)
 Title : USEPA Method SIM 8270 Calibration
 Last Update : Tue Aug 01 15:08:26 2006
 Response via : Initial Calibration



Data File : Y:\DATA\080106_A\HP01994.D
 Acq On : 1 Aug 2006 14:17
 Sample : 1281-33-5 10 SIM PAH ical
 Misc : BT=S23062606

Vial: 8
 Operator: RBF
 Inst : SEA023
 Multiplr: 1.00

MS Integration Params: RTEINT.P
 Quant Time: Aug 01 15:09:43 2006

Quant Results File: PAH080106.RES

Quant Method : Y:\METHODS\PAH080106.M (RTE Integrator)
 Title : USEPA Method SIM 8270 Calibration
 Last Update : Tue Aug 01 15:08:26 2006
 Response via : Initial Calibration
 DataAcq Meth : PAHSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (I)	5.99	152	17737	100.00	ug/L	0.00
2) Naphthalene-d8 (I)	7.09	136	64491	100.00	ug/L	0.00
7) Acenaphthene-d10 (I)	8.56	162	32340	100.00	ug/L	0.00
12) Phenanthrene-d10 (I)	9.93	188	49187	100.00	ug/L	0.00
18) Chrysene-d12 (I)	12.87	240	45116	100.00	ug/L	0.00
21) Perylene-d12 (I)	14.76	264	40514	100.00	ug/L	0.00

System Monitoring Compounds

3) Nitrobenzene - d5 (S)	6.47	82	1953	9.19	ug/L	-0.01
8) 2 - Fluorobiphenyl (S)	7.99	172	4153	9.49	ug/L	0.00
17) Terphenyl - d14 (S)	11.66	244	3359	8.18	ug/L	0.00

Target Compounds

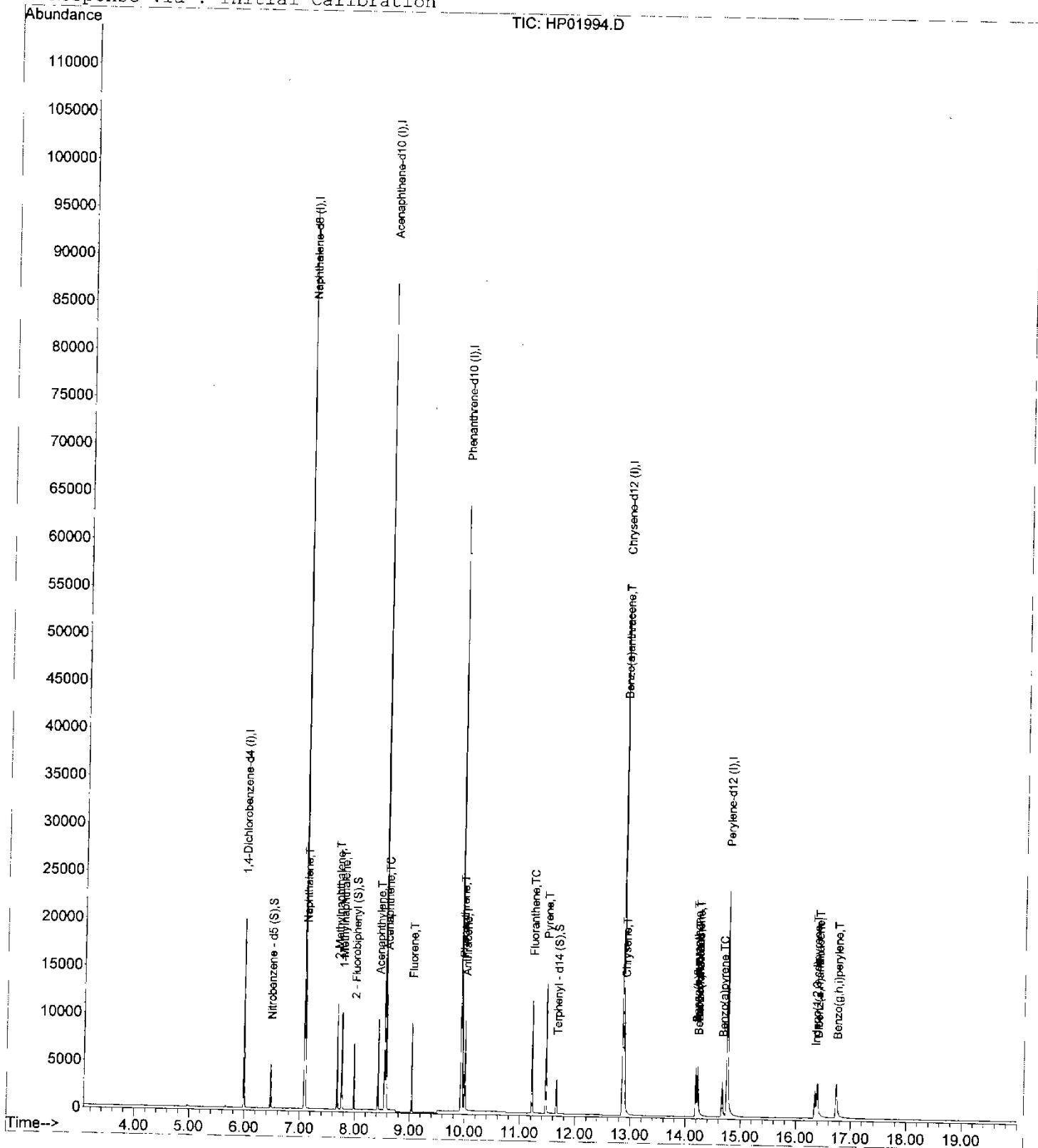
	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	7.10	128	6570	9.78	ug/L	89
5) 2-Methylnaphthalene	7.68	141	3377	9.32	ug/L	95
6) 1-Methylnaphthalene	7.76	141	3503	9.37	ug/L	97
9) Acenaphthylene	8.43	152	5369	9.13	ug/L	99
10) Acenaphthene	8.58	153	3845	9.45	ug/L	86
11) Fluorene	9.04	166	3852	9.18	ug/L	97
13) Phenanthrene	9.95	178	6949	9.38	ug/L	95
14) Anthracene	10.01	178	6218	10.15	ug/L	93
15) Fluoranthene	11.22	202	7197	9.83	ug/L	97
16) Pyrene	11.47	202	8124	9.76	ug/L	79
19) Benzo(a)anthracene	12.85	228	5948	10.89	ug/L	95
20) Chrysene	12.90	228	8010	11.20	ug/L	97
22) Benzo(b)fluoranthene	14.19	252	5908	10.91	ug/L	89
23) Benzo(k)fluoranthene	14.22	252	6194	10.40	ug/L	92
24) Benzofluoranthenes	14.21	252	12389	21.28	ug/L	99
25) Benzo(a)pyrene	14.67	252	4286	11.03	ug/L	98
26) Indeno(1,2,3-cd)pyrene	16.35	276	3674	10.58	ug/L	84
27) Dibenz(a,h)anthracene	16.39	278	4378	10.36	ug/L	89
28) Benzo(g,h,i)perylene	16.75	276	5642	11.21	ug/L	94

Data File : Y:\DATA\080106_A\HP01994.D
 Acq On : 1 Aug 2006 14:17
 Sample : 1281-33-5 10 SIM PAH ical
 Misc : BT=S23062606
 MS Integration Params: RTEINT.P
 Quant Time: Aug 1 15:09 2006

Vial: 8
 Operator: RBF
 Inst : SEA023
 Multiplr: 1.00

Quant Results File: PAH080106.RES

Method : Y:\METHODS\PAH080106.M (RTE Integrator)
 Title : USEPA Method SIM 8270 Calibration
 Last Update : Tue Aug 01 15:08:26 2006
 Response via : Initial Calibration



Data File : Y:\DATA\080106_A\HP01995.D

Acq On : 1 Aug 2006 14:44

Sample : 1281-33-4 5 SIM PAH ical

Misc : BT=S23062606

MS Integration Params: RTEINT.P

Quant Time: Aug 02 07:49:31 2006

Vial: 9

Operator: RBF

Inst : SEA023

Multiplr: 1.00

Quant Results File: PAH080106.RES

Quant Method : Y:\METHODS\PAH080106.M (RTE Integrator)

Title : USEPA Method SIM 8270 Calibration

Last Update : Wed Aug 02 07:49:28 2006

Response via : Initial Calibration

DataAcq Meth : PAHSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (I)	6.00	152	16647	100.00	ug/L	0.00
2) Naphthalene-d8 (I)	7.09	136	60161	100.00	ug/L	0.00
7) Acenaphthene-d10 (I)	8.56	162	30172	100.00	ug/L	0.00
12) Phenanthrene-d10 (I)	9.93	188	48998	100.00	ug/L	0.00
18) Chrysene-d12 (I)	12.87	240	51692	100.00	ug/L	0.00
21) Perylene-d12 (I)	14.75	264	44356	100.00	ug/L	-0.01

System Monitoring Compounds

3) Nitrobenzene - d5 (S)	6.47	82	959	4.84	ug/L	-0.01
8) 2 - Fluorobiphenyl (S)	7.99	172	2307	5.65	ug/L	0.00
17) Terphenyl - d14 (S)	11.66	244	2775	6.62	ug/L	0.00

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	7.10	128	3396	5.42	ug/L	88
5) 2-Methylnaphthalene	7.68	141	1846	5.46	ug/L	92
6) 1-Methylnaphthalene	7.76	141	1895	5.43	ug/L	96
9) Acenaphthylene	8.43	152	3047	5.55	ug/L	100
10) Acenaphthene	8.58	153	2372	6.25	ug/L	86
11) Fluorene	9.04	166	2504	6.40	ug/L	100
13) Phenanthrene	9.95	178	4656	5.57	ug/L	92
14) Anthracene	10.01	178	3639	5.96	ug/L	94
15) Fluoranthene	11.22	202	4786	5.88	ug/L	98
16) Pyrene	11.47	202	5482	5.87	ug/L	78
19) Benzo(a)anthracene	12.85	228	3918	5.35	ug/L	95
20) Chrysene	12.90	228	5211	4.39	ug/L	94
22) Benzo(b)fluoranthene	14.18	252	3857	5.56	ug/L	93
23) Benzo(k)fluoranthene	14.22	252	4058	5.49	ug/L	88
24) Benzofluoranthenes	14.21	252	8114	10.92	ug/L	89
25) Benzo(a)pyrene	14.67	252	2572	6.16	ug/L	100
26) Indeno(1,2,3-cd)pyrene	16.36	276	2482	6.68	ug/L	94
27) Dibenz(a,h)anthracene	16.39	278	2640	5.70	ug/L	92
28) Benzo(g,h,i)perylene	16.74	276	3489	6.33	ug/L	90

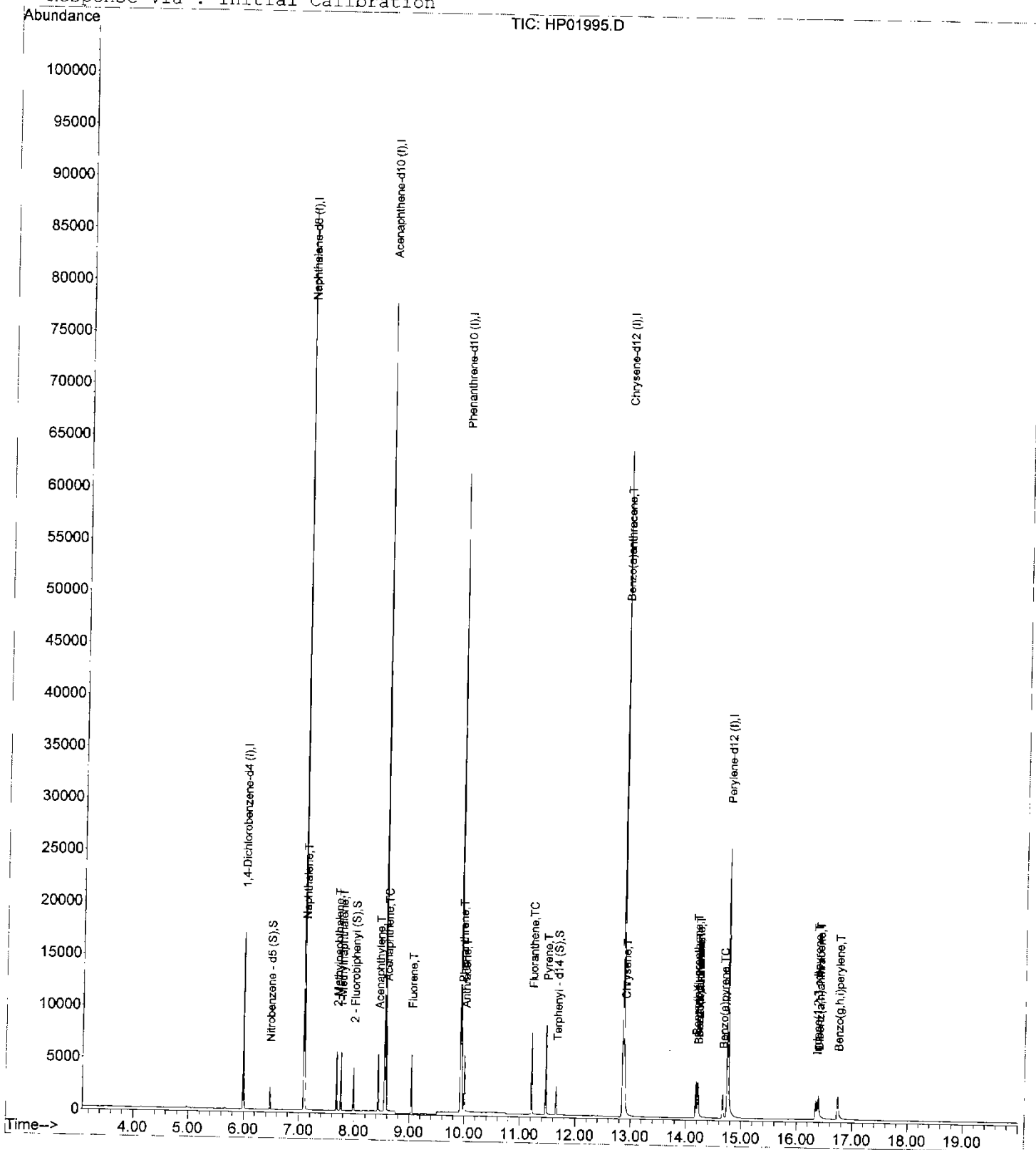
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 HP01995.D PAH080106.M Wed Aug 02 09:53:59 2006

Data File : Y:\DATA\080106_A\HP01995.D
Acq On : 1 Aug 2006 14:44
Sample : 1281-33-4 5 SIM PAH ical
Misc : BT=S23062606
MS Integration Params: RTEINT.P
Quant Time: Aug 2 7:49 2006

Vial: 9
Operator: RBF
Inst : SEA023
Multiplr: 1.00

Quant Results File: PAH080106.RES

Method : Y:\METHODS\PAH080106.M (RTE Integrator)
Title : USEPA Method SIM 8270 Calibration
Last Update : Tue Aug 01 15:08:26 2006
Response via : Initial Calibration



Data File : Y:\DATA\080106 A\HP01996.D
 Acq On : 1 Aug 2006 15:11
 Sample : 1281-33-10 500 SIM PAH icv/ocs
 Misc : BT=S23062606

Vial: 10
 Operator: RBF
 Inst : SEA023
 Multiplr: 1.00

MS Integration Params: RTEINT.P
 Quant Time: Aug 02 09:53:36 2006

Quant Results File: PAH080106.RES

Quant Method : Y:\METHODS\PAH080106.M (RTE Integrator)
 Title : USEPA Method SIM 8270 Calibration
 Last Update : Tue Aug 01 15:08:26 2006
 Response via : Initial Calibration
 DataAcq Meth : PAHSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (I)	5.99	152	16800	100.00	ug/L	0.00
2) Naphthalene-d8 (I)	7.09	136	61060	100.00	ug/L	0.00
7) Acenaphthene-d10 (I)	8.56	162	31575	100.00	ug/L	0.00
12) Phenanthrene-d10 (I)	9.93	188	47250	100.00	ug/L	0.00
18) Chrysene-d12 (I)	12.87	240	51965	100.00	ug/L	0.00
21) Perylene-d12 (I)	14.76	264	48145	100.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene - d5 (S)	6.47	82	100498	499.59	ug/L	-0.01
8) 2 - Fluorobiphenyl (S)	7.99	172	210350	492.10	ug/L	0.00
17) Terphenyl - d14 (S)	11.66	244	183702	513.08	ug/L	0.00

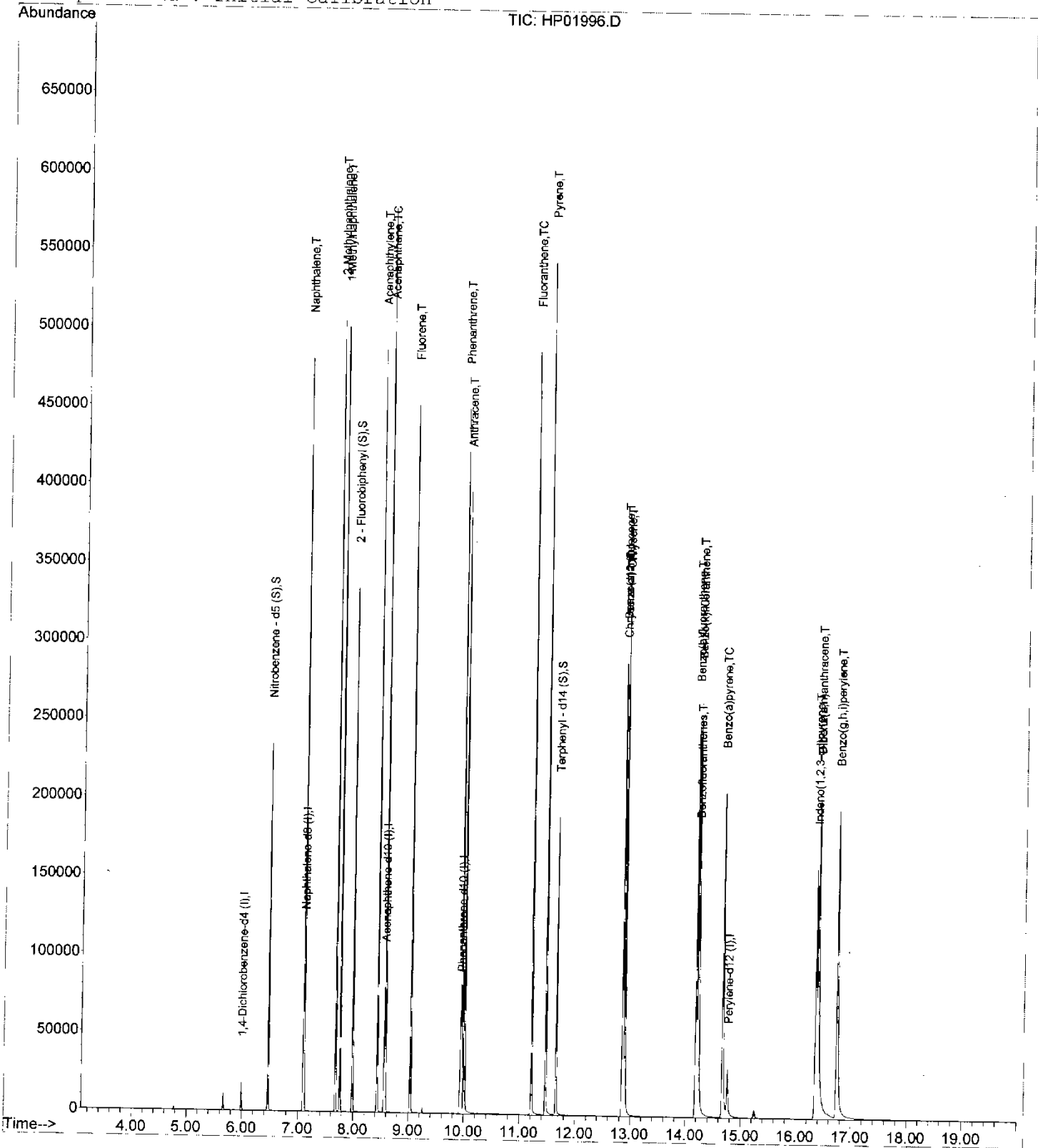
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	7.10	128	312289	491.24	ug/L	88
5) 2-Methylnaphthalene	7.68	141	159843	465.92	ug/L	93
6) 1-Methylnaphthalene	7.76	141	175902	496.84	ug/L	97
9) Acenaphthylene	8.43	152	279554	487.01	ug/L	100
10) Acenaphthene	8.58	153	188663	474.94	ug/L	87
11) Fluorene	9.04	166	194091	473.88	ug/L	99
13) Phenanthrene	9.95	178	287614	493.72	ug/L	92
14) Anthracene	10.01	178	269250	457.36	ug/L	94
15) Fluoranthene	11.22	202	293576	493.83	ug/L	96
16) Pyrene	11.47	202	325776	494.37	ug/L	77
19) Benzo(a)anthracene	12.85	228	254385	474.98	ug/L	96
20) Chrysene	12.90	228	292995	495.74	ug/L	97
22) Benzo(b)fluoranthene	14.19	252	266500	488.18	ug/L	90
23) Benzo(k)fluoranthene	14.22	252	298156	488.02	ug/L	90
24) Benzofluoranthenes	14.21	252	571102	978.47	ug/L	99
25) Benzo(a)pyrene	14.67	252	230854	478.73	ug/L	99
26) Indeno(1,2,3-cd)pyrene	16.35	276	200931	459.78	ug/L	86
27) Dibenz(a,h)anthracene	16.40	278	238858	475.52	ug/L	90
28) Benzo(g,h,i)perylene	16.75	276	272864	456.23	ug/L	85

Data File : Y:\DATA\080106_A\HP01996.D
Acq On : 1 Aug 2006 15:11
Sample : 1281-33-10 500 SIM PAH icv/ocs
Misc : BT=S23062606
MS Integration Params: RTEINT.P
Quant Time: Aug 2 9:53 2006

Vial: 10
Operator: RBF
Inst : SEA023
Multiplr: 1.00

Quant Results File: PAH080106.RES

Method : Y:\METHODS\PAH080106.M (RTE Integrator)
Title : USEPA Method SIM 8270 Calibration
Last Update : Tue Aug 01 15:08:26 2006
Response via : Initial Calibration



Data File : Y:\DATA\080106_A\HP01996.D

Acq On : 1 Aug 2006 15:11

Sample : 1281-33-10 500 SIM PAH icv/ocs

Misc : BT=S23062606

MS Integration Params: RTEINT.P

Vial: 10

Operator: RBF

Inst : SEA023

Multiplr: 1.00

Method : Y:\METHODS\PAH080106.M (RTE Integrator)

Title : USEPA Method SIM 8270 Calibration

Last Update : Tue Aug 01 15:08:26 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	1,4-Dichlorobenzene-d4 (I)	1.000	1.000	0.0	95	0.00
2 I	Naphthalene-d8 (I)	1.000	1.000	0.0	93	0.00
3 S	Nitrobenzene - d5 (S)	0.329	0.329	0.0	93	-0.01
4 T	Naphthalene	1.041	1.023	1.7	94	-0.01
5 T	2-Methylnaphthalene	0.562	0.524	6.8	88	0.00
6 T	1-Methylnaphthalene	0.580	0.576	0.7	93	0.00
7 I	Acenaphthene-d10 (I)	1.000	1.000	0.0	92	0.00
8 S	2 - Fluorobiphenyl (S)	1.354	1.332	1.6	94	0.00
9 T	Acenaphthylene	1.818	1.771	2.6	92	0.00
10 TC	Acenaphthene	1.258	1.195	5.0	93	0.00
11 T	Fluorene	1.297	1.229	5.2	92	0.00
12 I	Phenanthrene-d10 (I)	1.000	1.000	0.0	93	0.00
13 T	Phenanthrene	1.373	1.217	11.4	92	-0.01
14 T	Anthracene	1.246	1.140	8.5	89	-0.01
15 TC	Fluoranthene	1.392	1.243	10.7	93	-0.01
16 T	Pyrene	1.557	1.379	11.4	93	0.00
17 S	Terphenyl - d14 (S)	0.801	0.778	2.9	96	0.00
18 I	Chrysene-d12 (I)	1.000	1.000	0.0	94	0.00
19 T	Benzo(a)anthracene	1.144	0.979	14.4	90	0.00
20 T	Chrysene	1.371	1.128	17.7	94	0.00
21 I	Perylene-d12 (I)	1.000	1.000	0.0	94	0.00
22 T	Benzo(b)fluoranthene	1.280	1.107	13.5	92	-0.01
23 T	Benzo(k)fluoranthene	1.387	1.239	10.7	94	-0.01
24 T	Benzofluoranthenes	1.355	1.186	12.5	93	0.00
25 TC	Benzo(a)pyrene	1.011	0.959	5.1	92	-0.02
26 T	Indeno(1,2,3-cd)pyrene	0.910	0.835	8.2	90	-0.02
27 T	Dibenz(a,h)anthracene	1.043	0.992	4.9	91	-0.01
28 T	Benzo(g,h,i)perylene	1.242	1.134	8.7	91	-0.03

Data File : Y:\DATA\080106_A\HP01996.D
 Acq On : 1 Aug 2006 15:11
 Sample : 1281-33-10 500 SIM PAH icv/ocs
 Misc : BT=S23062606
 MS Integration Params: RTEINT.P

Vial: 10
 Operator: RBF
 Inst : SEA023
 Multiplr: 1.00

Method : Y:\METHODS\PAH080106.M (RTE Integrator)
 Title : USEPA Method SIM 8270 Calibration
 Last Update : Tue Aug 01 15:08:26 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		Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4 (I)	100.000	100.000	0.0	95	0.00
2 I	Naphthalene-d8 (I)	100.000	100.000	0.0	93	0.00
3 S	Nitrobenzene - d5 (S)	500.000	499.592	0.1	93	-0.01
4 T	Naphthalene	500.000	491.237	1.8	94	-0.01
5 T	2-Methylnaphthalene	500.000	465.915	6.8	88	0.00
6 T	1-Methylnaphthalene	500.000	496.841	0.6	93	0.00
7 I	Acenaphthene-d10 (I)	100.000	100.000	0.0	92	0.00
8 S	2 - Fluorobiphenyl (S)	500.000	492.099	1.6	94	0.00
9 T	Acenaphthylene	500.000	487.005	2.6	92	0.00
10 TC	Acenaphthene	500.000	474.942	5.0	93	0.00
11 T	Fluorene	500.000	473.875	5.2	92	0.00
12 I	Phenanthrene-d10 (I)	100.000	100.000	0.0	93	0.00
13 T	Phenanthrene	500.000	493.719	1.3	92	-0.01
14 T	Anthracene	500.000	457.364	8.5	89	-0.01
15 TC	Fluoranthene	500.000	493.826	1.2	93	-0.01
16 T	Pyrene	500.000	494.367	1.1	93	0.00
17 S	Terphenyl - d14 (S)	500.000	513.082	-2.6	96	0.00
18 I	Chrysene-d12 (I)	100.000	100.000	0.0	94	0.00
19 T	Benzo(a)anthracene	500.000	474.980	5.0	90	0.00
20 T	Chrysene	500.000	495.743	0.9	94	0.00
21 I	Perylene-d12 (I)	100.000	100.000	0.0	94	0.00
22 T	Benzo(b)fluoranthene	500.000	488.177	2.4	92	-0.01
23 T	Benzo(k)fluoranthene	500.000	488.016	2.4	94	-0.01
24 T	Benzofluoranthenes	1000.000	978.474	2.2	93	0.00
25 TC	Benzo(a)pyrene	500.000	478.734	4.3	92	-0.02
26 T	Indeno(1,2,3-cd)pyrene	500.000	459.778	8.0	90	-0.02
27 T	Dibenz(a,h)anthracene	500.000	475.518	4.9	91	-0.01
28 T	Benzo(g,h,i)perylene	500.000	456.232	8.8	91	-0.03

CONTINUING CALIBRATION

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	Hp02195.d	1.	rinse		
2	2	Hp02196.d	1.	dftpp	BT\$S40081606B	25 Aug 2006 09:52
3	3	Hp02197.d	1.	1281-33-6 500 8270 SIM PAH ...	BT\$S40081606B	25 Aug 2006 10:16
4	4	Hp02198.d	1.	MB 580-10210/1-A	BT\$S40081606B	25 Aug 2006 10:38
5	5	Hp02199.d	1.	LCS 580-10210/2-A	BT=S02082506	25 Aug 2006 11:59
6	6	Hp02200.d	1.	LCSD 580-10210/3-A	BT=S02082506	25 Aug 2006 12:27
7	7	Hp02201.d	1.	580-3377-G-1-A	BT=S02082506	25 Aug 2006 12:54
					BT=S02082506	25 Aug 2006 13:21

Data File : Y:\DATA\082506 A\HP02197.D
 Acq On : 25 Aug 2006 10:38
 Sample : 1281-33-6 500 8270 SIM PAH ccal
 Misc : BTSS40081606B
 MS Integration Params: RTEINT.P
 Quant Time: Aug 25 11:11:30 2006

(Not Reviewed)
 Vial: 3
 Operator: RBF
 Inst : SEA023
 Multiplr: 1.00

Quant Results File: PAH080106.RES

Quant Method : Y:\METHODS\PAH080106.M (RTE Integrator)
 Title : USEPA Method SIM 8270 Calibration
 Last Update : Fri Aug 25 11:11:24 2006
 Response via : Initial Calibration
 DataAcq Meth : PAHSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (I)	5.69	152	27961	100.00	ug/L	0.00
2) Naphthalene-d8 (I)	6.80	136	103261	100.00	ug/L	0.00
7) Acenaphthene-d10 (I)	8.26	162	54770	100.00	ug/L	0.00
12) Phenanthrene-d10 (I)	9.60	188	81744	100.00	ug/L	0.00
18) Chrysene-d12 (I)	12.49	240	86740	100.00	ug/L	0.00
21) Perylene-d12 (I)	14.22	264	86036	100.00	ug/L	0.00
System Monitoring Compounds						
3) Nitrobenzene - d5 (S)	6.18	82	180280	529.94	ug/L	0.00
8) 2 - Fluorobiphenyl (S)	7.70	172	391741	528.33	ug/L	0.00
17) Terphenyl - d14 (S)	11.30	244	322844	521.10	ug/L	0.00
Target Compounds						
4) Naphthalene	6.81	128	564793	525.34	ug/L	Qvalue 100
5) 2-Methylnaphthalene	7.39	141	312759	539.07	ug/L	86
6) 1-Methylnaphthalene	7.48	141	324212	541.50	ug/L	88
9) Acenaphthylene	8.14	152	534986	537.29	ug/L	89
10) Acenaphthene	8.28	153	351807	510.57	ug/L	94
11) Fluorene	8.73	166	370746	521.84	ug/L	89
13) Phenanthrene	9.62	178	528098	523.73	ug/L	95
14) Anthracene	9.67	178	518135	508.74	ug/L	88
15) Fluoranthene	10.85	202	539567	524.22	ug/L	95
16) Pyrene	11.10	202	585317	513.22	ug/L	96
19) Benzo(a)anthracene	12.48	228	495843	553.70	ug/L	98
20) Chrysene	12.52	228	524925	532.43	ug/L	98
22) Benzo(b)fluoranthene	13.71	252	516541	528.53	ug/L	99
23) Benzo(k)fluoranthene	13.75	252	557191	510.16	ug/L	99
24) Benzo(a)fluoranthene	13.73	252	1082693	1037.19	ug/L	98
25) Benzo(a)pyrene	14.14	252	485496	561.31	ug/L	99
26) Indeno(1,2,3-cd)pyrene	15.81	276	431721	550.64	ug/L	97
27) Dibenz(a,h)anthracene	15.85	278	484672	539.94	ug/L	99
28) Benzo(g,h,i)perylene	16.15	276	520887	487.36	ug/L	98

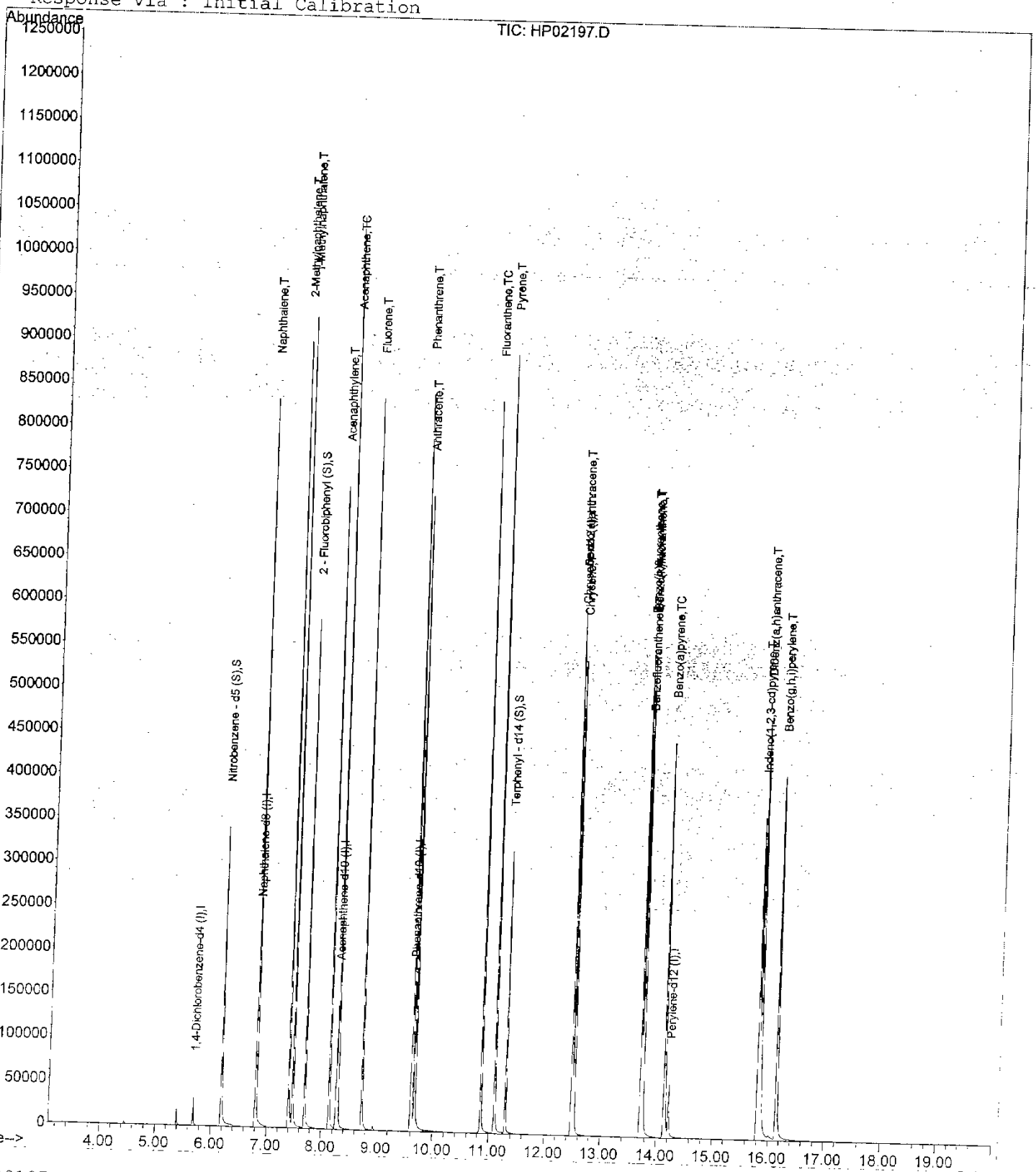
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 HP02197.D PAH080106.M Fri Aug 25 14:02:47 2006

Data File : Y:\DATA\082506_A\HP02197.D
Acq On : 25 Aug 2006 10:38
Sample : 1281-33-6 500 8270 SIM PAH ccal
Misc : BTSS40081606B
MS Integration Params: RTEINT.P
Quant Time: Aug 25 11:11 2006

Vial: 3
Operator: RBF
Inst : SEA023
Multiplr: 1.00

Quant Results File: PAH080106.RES

Method : Y:\METHODS\PAH080106.M (RTE Integrator)
Title : USEPA Method SIM 8270 Calibration
Last Update : Fri Aug 25 11:11:24 2006
Response via : Initial Calibration



Data File : Y:\DATA\082506_A\HP02197.D
 Acq On : 25 Aug 2006 10:38
 Sample : 1281-33-6 500 8270 SIM PAH ccal
 Misc : BTSS40081606B
 MS Integration Params: RTEINT.P

Vial: 3
 Operator: RBF
 Inst : SEA023
 Multiplr: 1.00

Method : Y:\METHODS\PAH080106.M (RTE Integrator)
 Title : USEPA Method SIM 8270 Calibration
 Last Update : Fri Aug 25 11:11:24 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 1,4-Dichlorobenzene-d4 (I)	1.000	1.000	0.0	159	0.00
2 I Naphthalene-d8 (I)	1.000	1.000	0.0	158	0.00
3 S Nitrobenzene - d5 (S)	0.329	0.349	-6.1	166	0.00
4 T Naphthalene	1.041	1.094	-5.1	171	0.00
5 T 2-Methylnaphthalene	0.562	0.606	-7.8	172	0.00
6 T 1-Methylnaphthalene	0.580	0.628	-8.3	172	0.00
7 I Acenaphthene-d10 (I)	1.000	1.000	0.0	159	0.00
8 S 2 - Fluorobiphenyl (S)	1.354	1.430	-5.6	175	0.00
9 T Acenaphthylene	1.818	1.954	-7.5	177	0.00
10 TC Acenaphthene	1.258	1.285	-2.1	173	0.00
11 T Fluorene	1.297	1.354	-4.4	176	0.00
12 I Phenanthrene-d10 (I)	1.000	1.000	0.0	160	0.00
13 T Phenanthrene	1.373	1.292	5.9	170	0.00
14 T Anthracene	1.246	1.268	-1.8	171	0.00
15 TC Fluoranthene	1.392	1.320	5.2	171	0.00
16 T Pyrene	1.557	1.432	8.0	167	0.00
17 S Terphenyl - d14 (S)	0.801	0.790	1.4	168	0.00
18 I Chrysene-d12 (I)	1.000	1.000	0.0	157	0.00
19 T Benzo(a)anthracene	1.144	1.143	0.1	176	0.00
20 T Chrysene	1.371	1.210	11.7	168	0.00
21 I Perylene-d12 (I)	1.000	1.000	0.0	168	0.00
22 T Benzo(b)fluoranthene	1.280	1.201	6.2	179	0.00
23 T Benzo(k)fluoranthene	1.387	1.295	6.6	175	0.00
24 T Benzofluoranthenes	1.355	1.258	7.2	177	0.00
25 TC Benzo(a)pyrene	1.011	1.129	-11.7	194	0.00
26 T Indeno(1,2,3-cd)pyrene	0.910	1.004	-10.3	193	0.00
27 T Dibenz(a,h)anthracene	1.043	1.127	-8.1	184	0.00
28 T Benzo(g,h,i)perylene	1.242	1.211	2.5	174	0.00

Data File : Y:\DATA\082506 A\HP02197.D
 Acq On : 25 Aug 2006 10:38
 Sample : 1281-33-6 500 8270 SIM PAH ccal
 Misc : BTSS40081606B
 MS Integration Params: RTEINT.P

Vial: 3
 Operator: RBF
 Inst : SEA023
 Multiplr: 1.00

Method : Y:\METHODS\PAH080106.M (RTE Integrator)
 Title : USEPA Method SIM 8270 Calibration
 Last Update : Fri Aug 25 11:11:24 2006
 Response via : Multiple Level Calibration

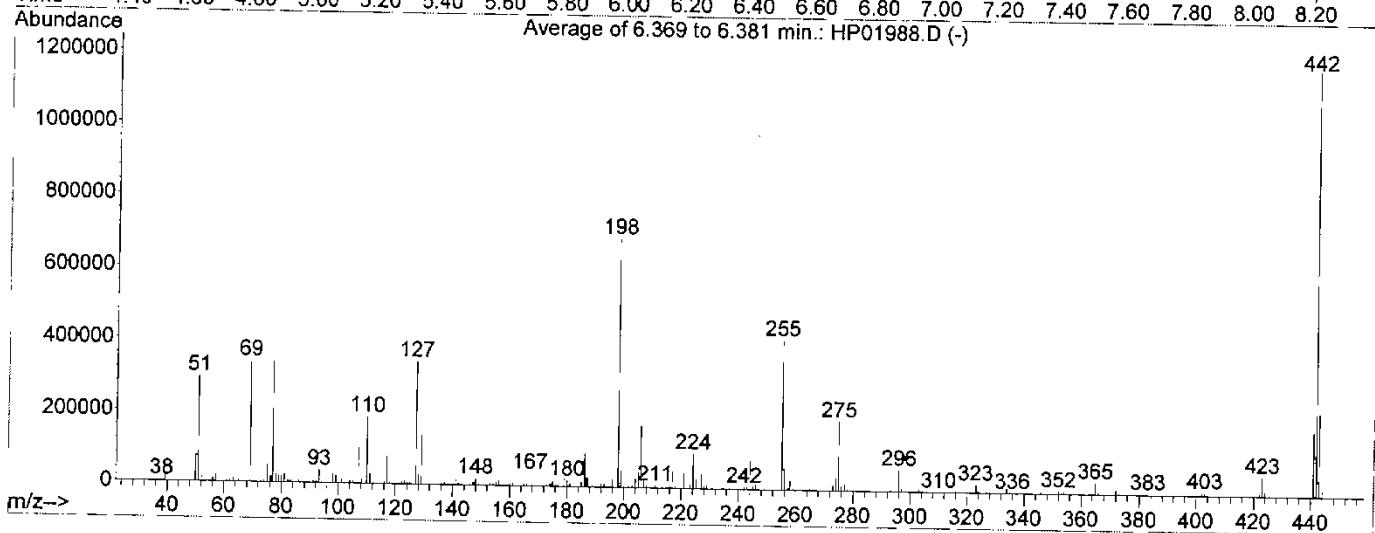
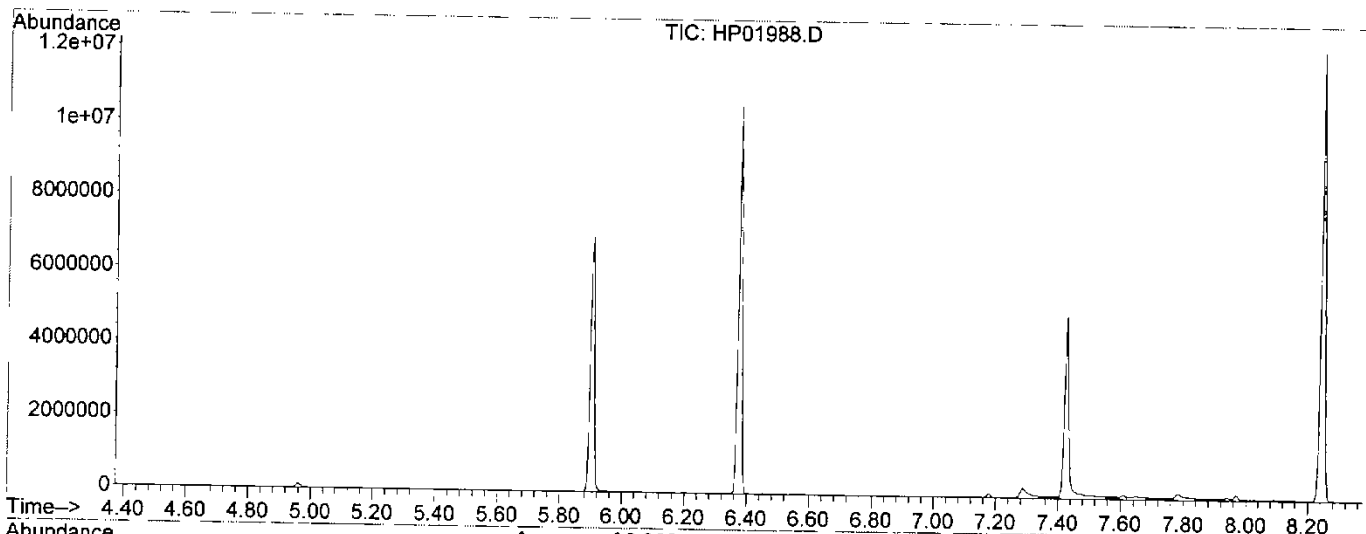
Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I 1,4-Dichlorobenzene-d4 (I)	100.000	100.000	0.0	159	0.00
2 I Naphthalene-d8 (I)	100.000	100.000	0.0	158	0.00
3 S Nitrobenzene - d5 (S)	500.000	529.940	-6.0	166	0.00
4 T Naphthalene	500.000	525.344	-5.1	171	0.00
5 T 2-Methylnaphthalene	500.000	539.068	-7.8	172	0.00
6 T 1-Methylnaphthalene	500.000	541.498	-8.3	172	0.00
7 I Acenaphthene-d10 (I)	100.000	100.000	0.0	159	0.00
8 S 2 - Fluorobiphenyl (S)	500.000	528.335	-5.7	175	0.00
9 T Acenaphthylene	500.000	537.293	-7.5	177	0.00
10 TC Acenaphthene	500.000	510.574	-2.1	173	0.00
11 T Fluorene	500.000	521.838	-4.4	176	0.00
12 I Phenanthrene-d10 (I)	100.000	100.000	0.0	160	0.00
13 T Phenanthrene	500.000	523.725	-4.7	170	0.00
14 T Anthracene	500.000	508.740	-1.7	171	0.00
15 TC Fluoranthene	500.000	524.216	-4.8	171	0.00
16 T Pyrene	500.000	513.225	-2.6	167	0.00
17 S Terphenyl - d14 (S)	500.000	521.099	-4.2	168	0.00
18 I Chrysene-d12 (I)	100.000	100.000	0.0	157	0.00
19 T Benzo(a)anthracene	500.000	553.702	-10.7	176	0.00
20 T Chrysene	500.000	532.426	-6.5	168	0.00
21 I Perylene-d12 (I)	100.000	100.000	0.0	168	0.00
22 T Benzo(b)fluoranthene	500.000	528.529	-5.7	179	0.00
23 T Benzo(k)fluoranthene	500.000	510.160	-2.0	175	0.00
24 T Benzofluoranthenes	1000.000	1037.186	-3.7	177	0.00
25 TC Benzo(a)pyrene	500.000	561.308	-12.3	194	0.00
26 T Indeno(1,2,3-cd)pyrene	500.000	550.636	-10.1	193	0.00
27 T Dibenz(a,h)anthracene	500.000	539.941	-8.0	184	0.00
28 T Benzo(g,h,i)perylene	500.000	487.365	2.5	174	0.00

DFTPP TUNING

Data File : Y:\DATA\080106_A\HP01988.D
 Acq On : 1 Aug 2006 11:32
 Sample : dftpp
 Misc : BT=S23062606
 MS Integration Params: rteint.p
 Method : Y:\METHODS\DFTPP.M (RTE Integrator)
 Title : USEPA Method 8270 Calibration

Vial: 2
 Operator: RBF
 Inst : SEA023
 Multiplr: 1.00



AutoFind: Scans 560, 561, 562; Background Corrected with Scan 555

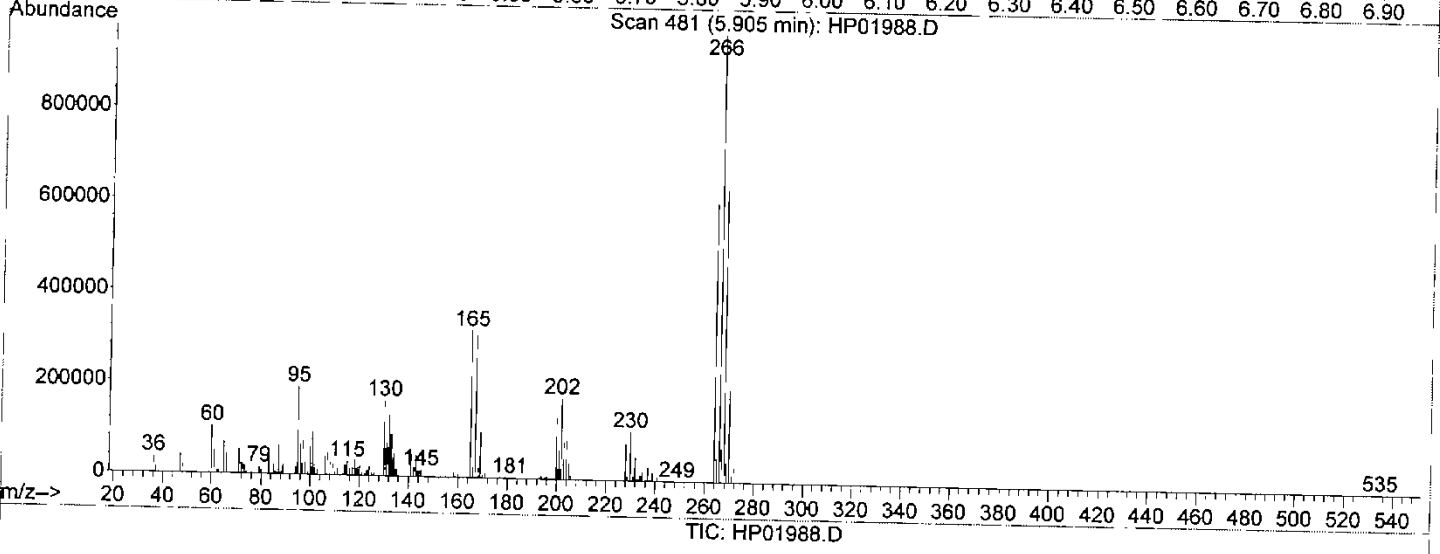
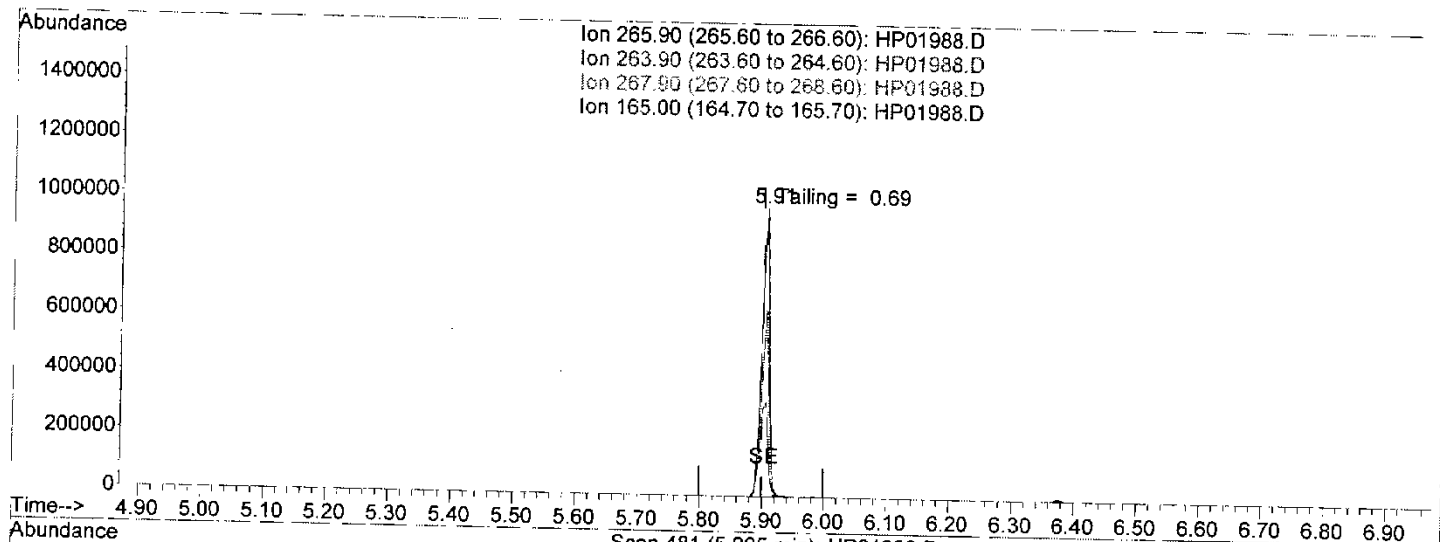
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	442	10	80	24.9	293874	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	49.0	338330	PASS
70	69	0.00	2	0.5	1671	PASS
127	442	10	80	29.0	342293	PASS
197	198	0.00	1	0.0	0	PASS
198	442	50	100	58.5	690688	PASS
199	198	5	9	6.9	47362	PASS
275	442	10	60	16.3	192653	PASS
365	198	1	100	4.5	31404	PASS
441	443	0.01	100	77.7	179605	PASS
442	442	50	100	100.0	1180970	PASS
443	442	15	24	19.6	231186	PASS

Data File : Y:\DATA\080106_A\HP01988.D
 Acq On : 1 Aug 2006 11:32
 Sample : dftpp
 Misc : BT=S23062606
 MS Integration Params: rteint.p
 Quant Time: Aug 2 9:56 2006

Vial: 2
 Operator: RBF
 Inst : SEA023
 Multiplr: 1.00

Quant Results File: temp.res

Method : Y:\METHODS\DFTPP.M (RTE Integrator)
 Title : USEPA Method 8270 Calibration
 Last Update : Mon Jul 31 10:52:45 2006
 Response via : Single Level Calibration



(1) Pentachlorophenol

5.91min (+0.006) 0.84u/l

response 806168

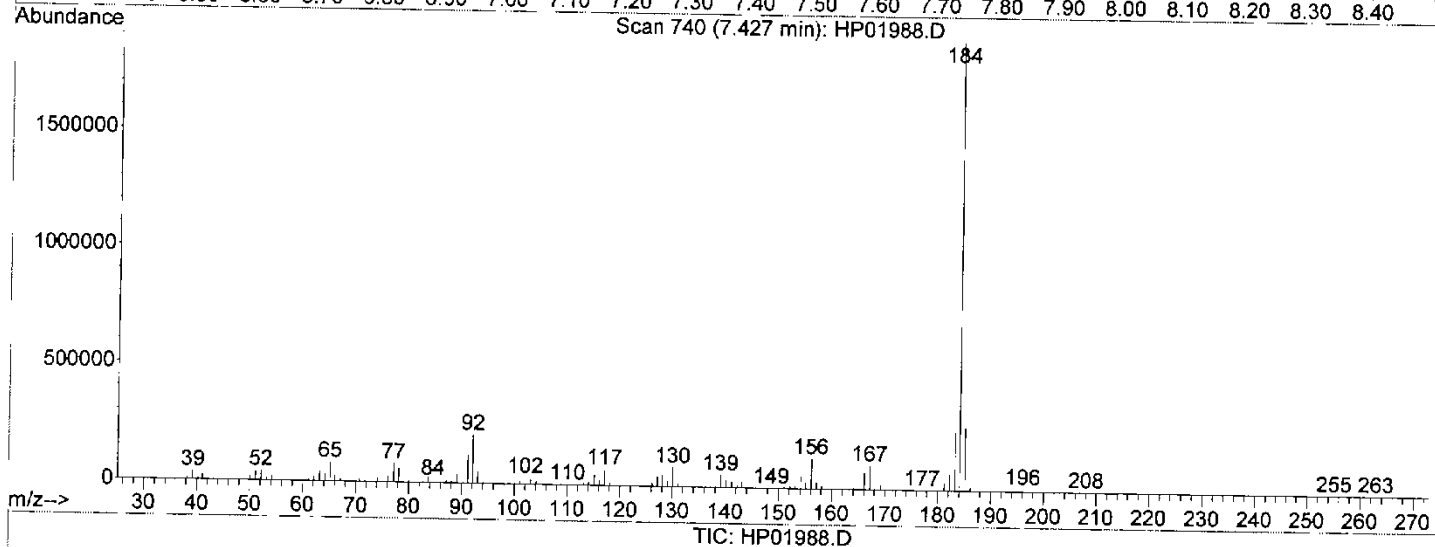
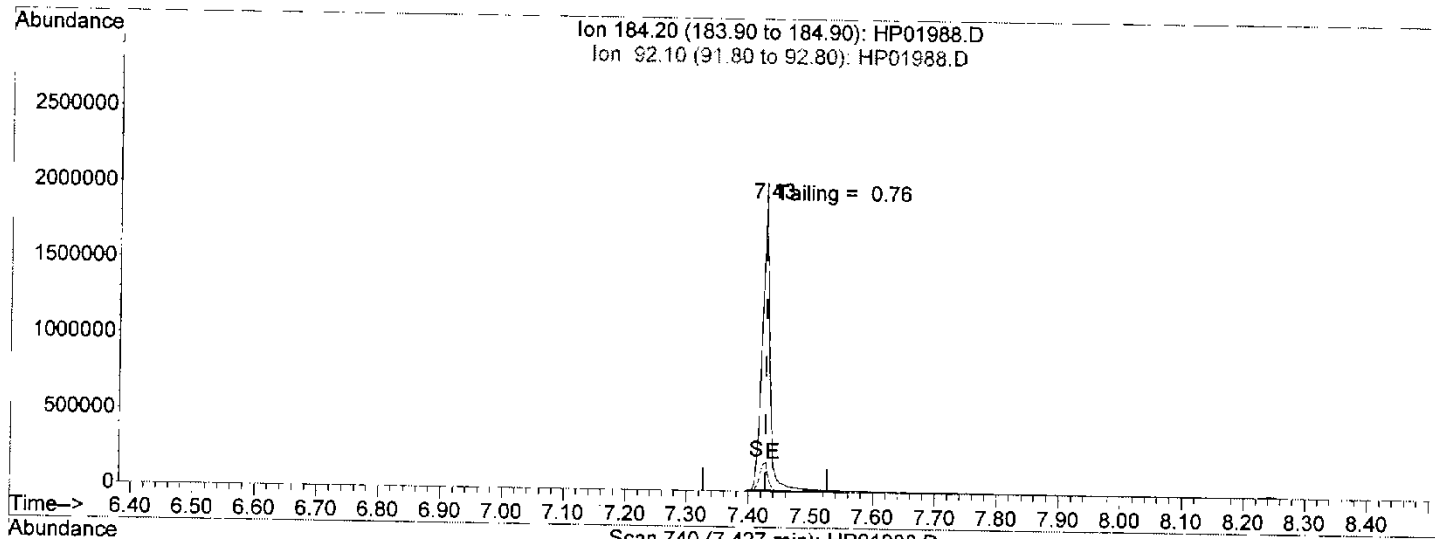
Ion	Exp%	Act%
265.90	100	100
263.90	62.60	61.90
267.90	62.50	64.51
165.00	38.10	36.46

Data File : Y:\DATA\080106_A\HP01988.D
 Acq On : 1 Aug 2006 11:32
 Sample : dftpp
 Misc : BT=S23062606
 MS Integration Params: rteint.p
 Quant Time: Aug 2 9:56 2006

Vial: 2
 Operator: RBF
 Inst : SEA023
 Multiplr: 1.00

Quant Results File: temp.res

Method : Y:\METHODS\DFTPP.M (RTE Integrator)
 Title : USEPA Method 8270 Calibration
 Last Update : Mon Jul 31 10:52:45 2006
 Response via : Single Level Calibration



(3) Benzidine

7.43min (-0.000) 0.58u/l

response 1749014

Ion	Exp%	Act%
184.20	100	100
92.10	9.80	11.79#
0.00	0.00	0.00
0.00	0.00	0.00

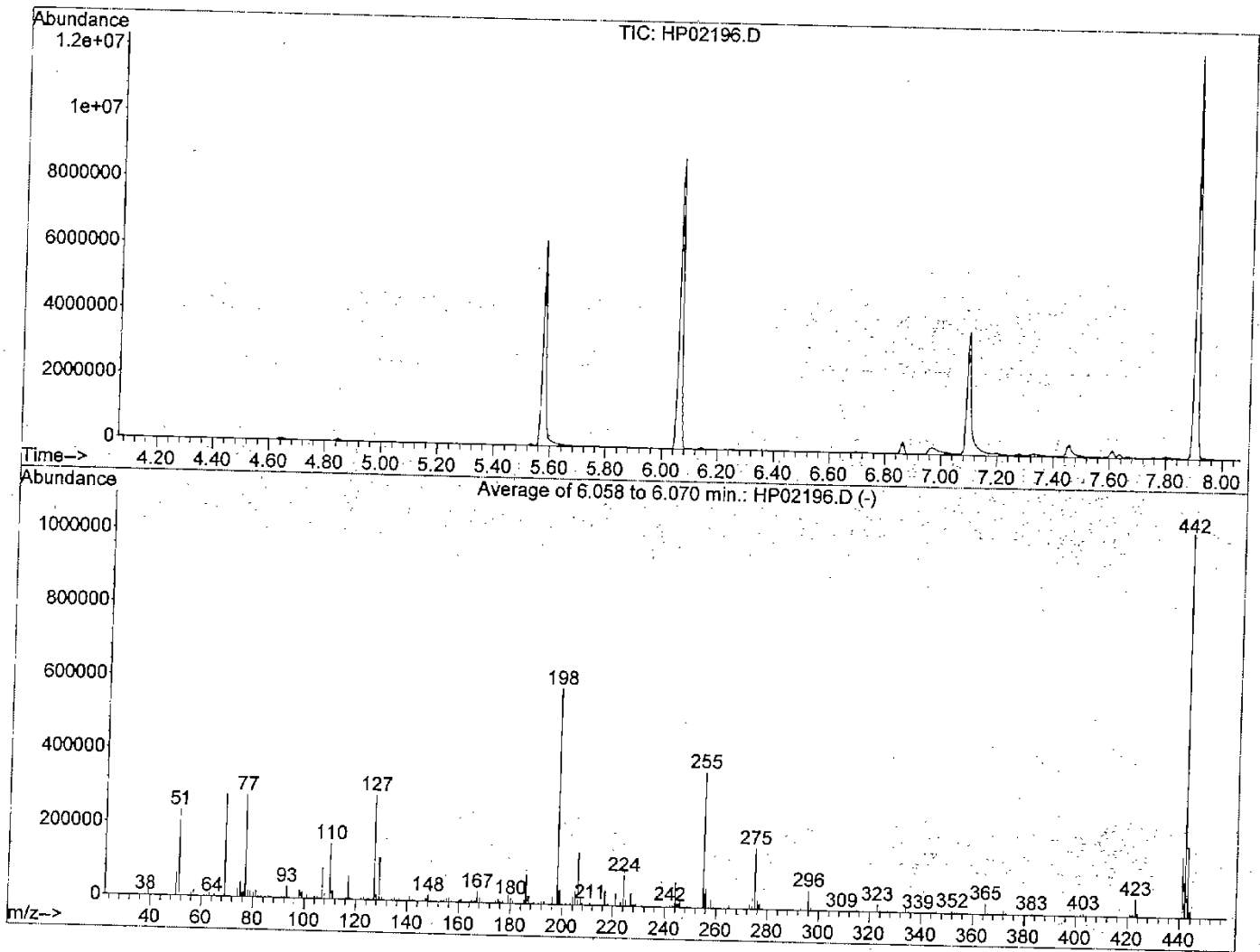
Data File Name **HP01988.D**
 Data File Path **Y:\DATA\080106_AI**
 Operator **RBF**

DFTPP
 Sample Name **dfpp**

<u>#</u>	<u>Name</u>	<u>Ret Time</u>	<u>Target Response</u>	<u>Percent Breakdown</u>
4)	DDD	7.97	15899	Pass 1.04%
5)	DDE	7.61	4653	
6)	DDT	8.24	1950737	
	SUM		1971289	

Data File : Y:\DATA\082506_A\HP02196.D
 Acq On : 25 Aug 2006 10:16
 Sample : dftpp
 Misc : BTSS40081606B
 MS Integration Params: rteint.p
 Method : Y:\METHODS\DFTPP.M (RTE Integrator)
 Title : USEPA Method 8270 Calibration

Vial: 2
 Operator: RBF
 Inst : SEA023
 Multiplr: 1.00



AutoFind: Scans 507, 508, 509; Background Corrected with Scan 501.

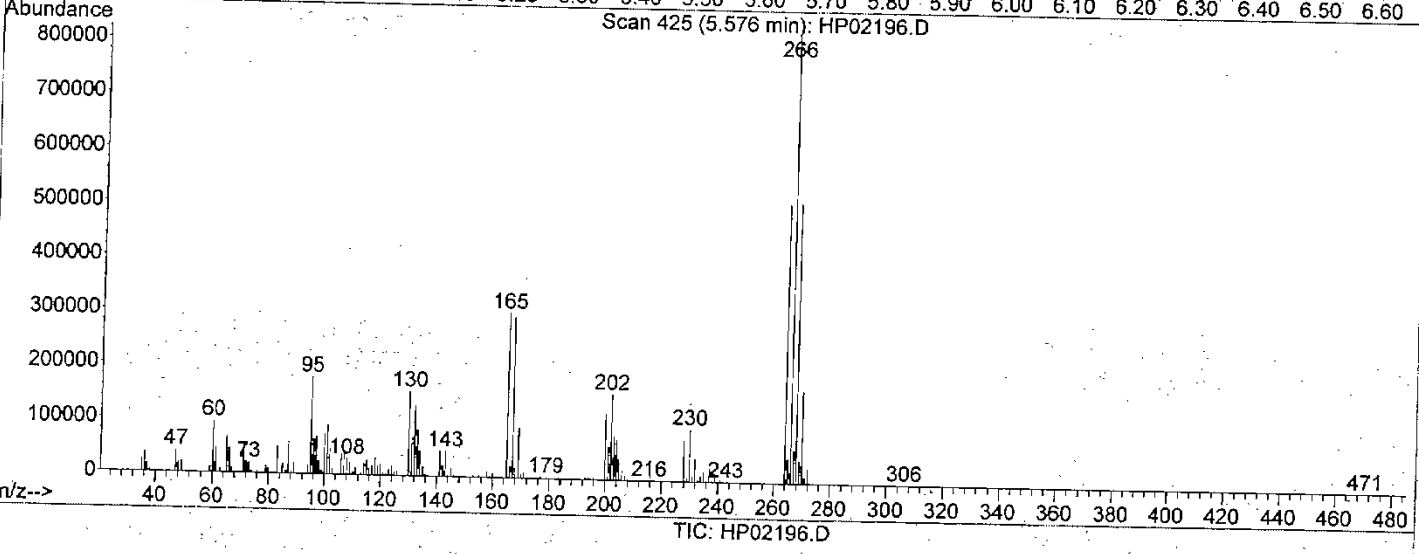
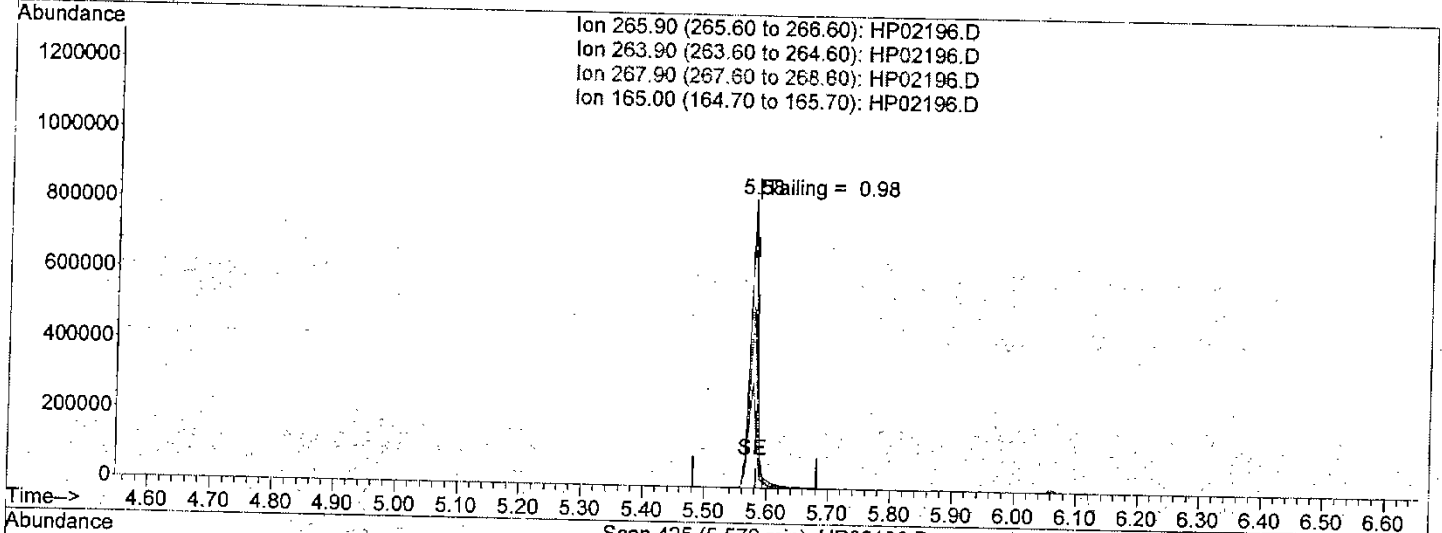
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	442	10	80	22.4	234037	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	47.3	277156	PASS
70	69	0.00	2	0.5	1494	PASS
127	442	10	80	27.3	284453	PASS
197	198	0.00	1	0.0	0	PASS
198	442	50	100	56.1	585408	PASS
199	198	5	9	6.9	40369	PASS
275	442	10	60	15.8	164789	PASS
365	198	1	100	4.9	28949	PASS
441	443	0.01	100	86.1	165650	PASS
442	442	50	100	100.0	1042581	PASS
443	442	15	24	18.4	192344	PASS

Data File : Y:\DATA\082506_A\HP02196.D
 Acq On : 25 Aug 2006 10:16
 Sample : dftpp
 Misc : BTSS40081606B
 MS Integration Params: rteint.p
 Quant Time: Aug 25 10:33 2006

Vial: 2
 Operator: RBF
 Inst : SEA023
 Multiplr: 1.00

Quant Results File: temp.res

Method : Y:\METHODS\DFTPP.M (RTE Integrator)
 Title : USEPA Method 8270 Calibration
 Last Update : Mon Aug 21 13:48:45 2006
 Response via : Single Level Calibration



(1) Pentachlorophenol

5.58min (-0.006) 0.72u/l

response 693042

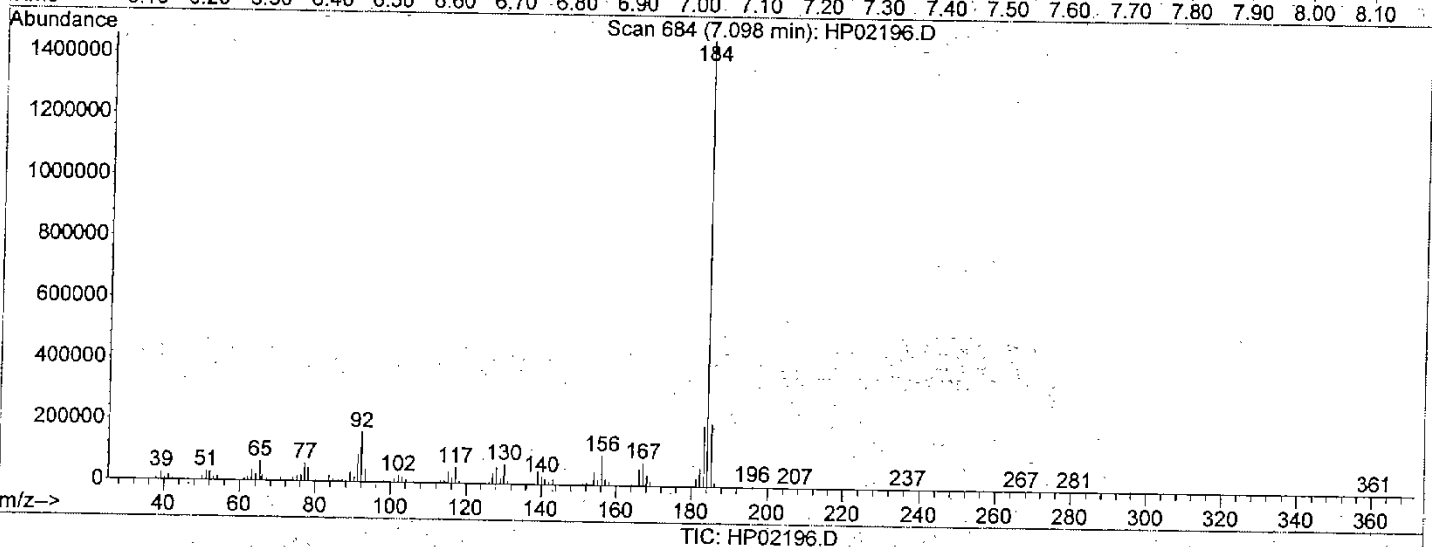
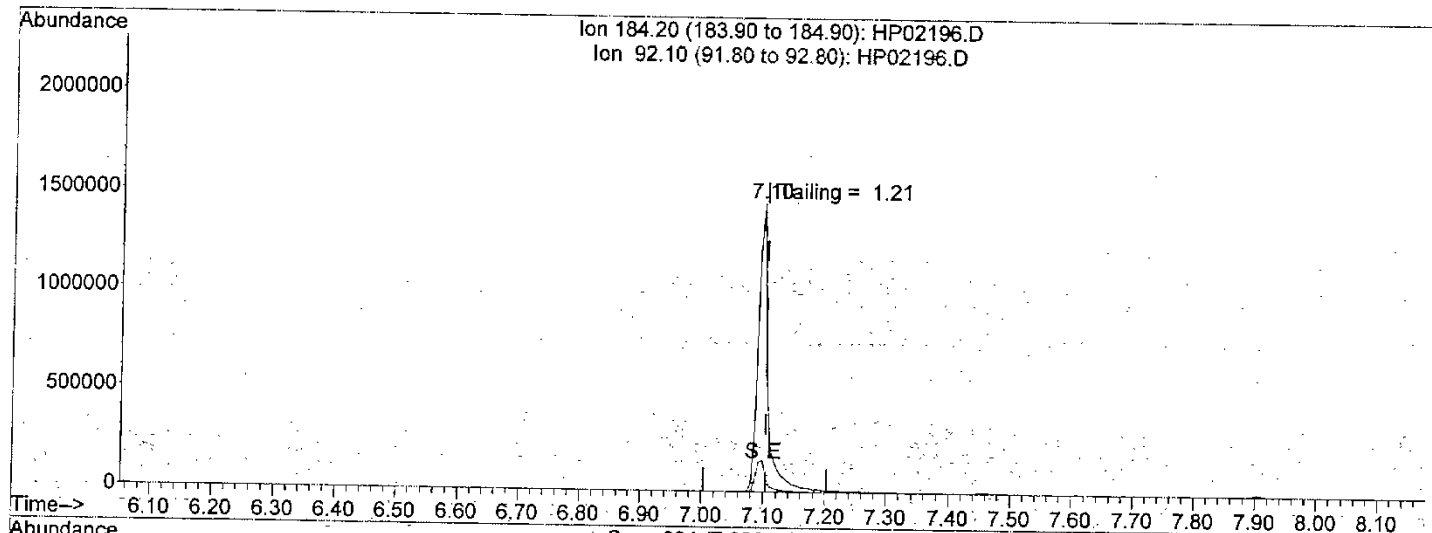
Ion	Exp%	Act%
265.90	100	100
263.90	62.50	62.45
267.90	64.60	64.32
165.00	33.60	38.43

Data File : Y:\DATA\082506 A\HP02196.D
 Acq On : 25 Aug 2006 10:16
 Sample : dftpp
 Misc : BTSS40081606B
 MS Integration Params: rteint.p
 Quant Time: Aug 25 10:33 2006

Vial: 2
 Operator: RBF
 Inst : SEA023
 Multiplr: 1.00

Quant Results File: temp.res

Method : Y:\METHODS\DFTPP.M (RTE Integrator)
 Title : USEPA Method 8270 Calibration
 Last Update : Mon Aug 21 13:48:45 2006
 Response via : Single Level Calibration



(3) Benzidine

7.10min (-0.006) 0.54ul/l

response 1613447

Ion	Exp%	Act%
184.20	100	100
92.10	10.60	11.83
0.00	0.00	0.00
0.00	0.00	0.00

Data File Name **HP02196.D**
Data File Path **Y:\DATA\082506_AI**
Operator **RBF**

DFTPP
Sample Name **dfpp**

<u>#</u>	<u>Name</u>	<u>Ret Time</u>	<u>Target Response</u>	<u>Percent Breakdown</u>
4)	DDD	7.61	35385	Pass 2.08%
5)	DDE	7.28	3665	
6)	DDT	7.90	1837585	
	SUM		1876635	

METHOD BLANK

Data File : Y:\DATA\082506 A\HP02198.D
 Acq On : 25 Aug 2006 11:59
 Sample : MB 580-10210/1-A
 Misc : BT=S02082506
 MS Integration Params: RTEINT.P
 Quant Time: Aug 25 12:34:34 2006

(Q1 reviewed)
 Vial: 4
 Operator: RBF
 Inst : SEA023
 Multiplr: 1.00

Quant Results File: PAH080106.RES

Quant Method : Y:\METHODS\PAH080106.M (RTE Integrator)
 Title : USEPA Method SIM 8270 Calibration
 Last Update : Fri Aug 25 11:11:24 2006
 Response via : Initial Calibration
 DataAcq Meth : PAHSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (I)	5.69	152	28799	100.00	ug/L	0.00
2) Naphthalene-d8 (I)	6.79	136	101984	100.00	ug/L	0.00
7) Acenaphthene-d10 (I)	8.26	162	54072	100.00	ug/L	0.00
12) Phenanthrene-d10 (I)	9.60	188	82381	100.00	ug/L	0.00
18) Chrysene-d12 (I)	12.49	240	72379	100.00	ug/L	0.00
21) Perylene-d12 (I)	14.22	264	67074	100.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene - d5 (S)	6.18	82	403714	1201.59	ug/L	0.00
8) 2 - Fluorobiphenyl (S)	7.70	172	829856	1133.66	ug/L	0.00
17) Terphenyl - d14 (S)	11.31	244	711146	1120.11	ug/L	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	6.81	128	225	0.21	ug/L	89
6) 1-Methylnaphthalene	7.47	141	73	0.12	ug/L #	41
9) Acenaphthylene	8.14	152	90	0.09	ug/L	74
10) Acenaphthene	8.28	153	89	0.13	ug/L #	47
11) Fluorene	8.73	166	103	0.15	ug/L	89
13) Phenanthrene	9.62	178	407	Below	Cal	92
14) Anthracene	9.67	178	170	0.17	ug/L	65
15) Fluoranthene	10.86	202	344	Below	Cal	93
16) Pyrene	11.10	202	314	Below	Cal	98
19) Benzo(a)anthracene	12.49	228	531	Below	Cal	87
20) Chrysene	12.52	228	267	Below	Cal	62
22) Benzo(b)fluoranthene	13.72	252	193	Below	Cal	74
23) Benzo(k)fluoranthene	13.76	252	182	Below	Cal	89
24) Benzofluoranthenes	13.74	252	409	Below	Cal	94
25) Benzo(a)pyrene	14.14	252	133	0.45	ug/L	58
26) Indeno(1,2,3-cd)pyrene	15.82	276	102	0.57	ug/L	95
27) Dibenz(a,h)anthracene	15.87	278	225	0.32	ug/L	56
28) Benzo(g,h,i)perylene	16.16	276	223	0.27	ug/L	92

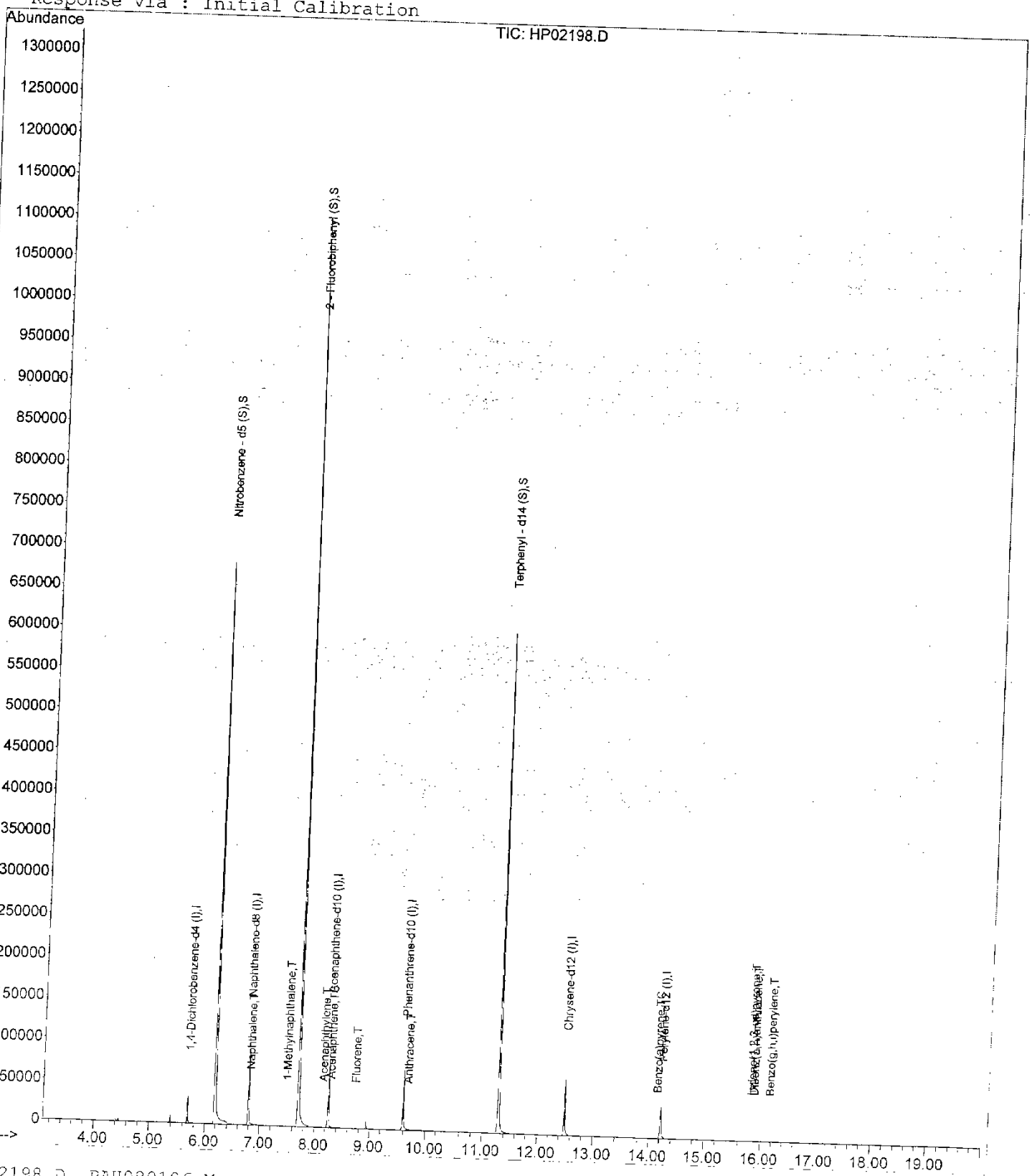
(#) = qualifier out of range (m) = manual integration (+) = signals summed
 HP02198.D PAH080106.M Fri Aug 25 14:02:18 2006

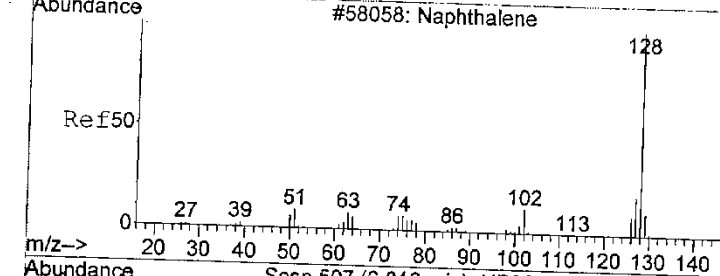
Data File : Y:\DATA\082506 A\HP02198.D
Acq On : 25 Aug 2006 11:59
Sample : MB 580-10210/1-A
Misc : BT=S02082506
MS Integration Params: RTEINT.P
Quant Time: Aug 25 12:34 2006

Vial: 4
Operator: RBF
Inst : SEA023
Multiplr: 1.00

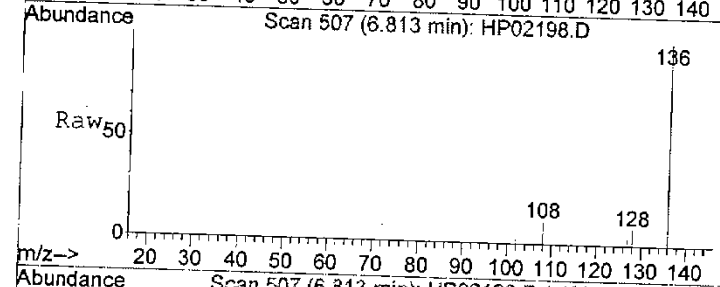
Quant Results File: PAH080106.RES

Method : Y:\METHODS\PAH080106.M (RTE Integrator)
Title : USEPA Method SIM 8270 Calibration
Last Update : Fri Aug 25 11:11:24 2006
Response via : Initial Calibration



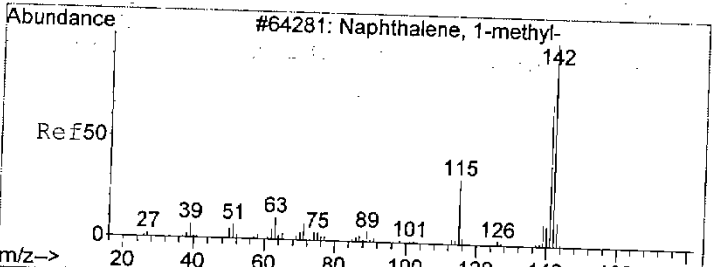
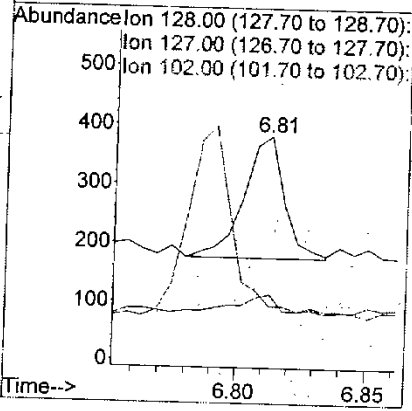
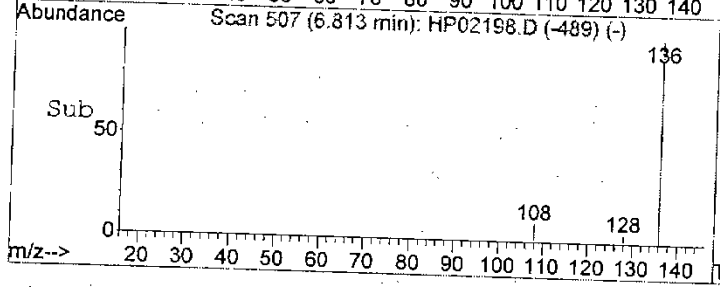


#4
 Naphthalene
 Concen: 0.21 ug/L
 RT: 6.81 min Scan# 507
 Delta R.T. -0.00 min
 Lab File: HPO2198.D
 Acq: 25 Aug 2006 11:59

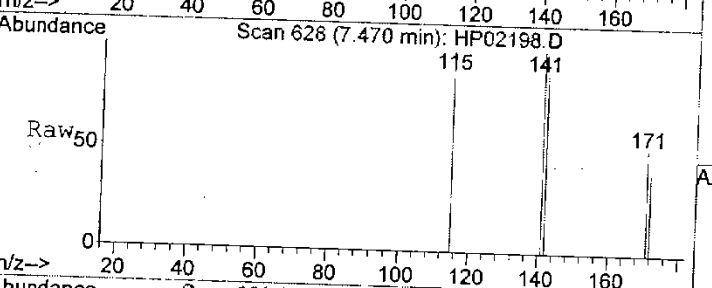


Tgt Ion:128 Resp: 225

Ion	Ratio	Lower	Upper
128	100		
127	14.8	0.0	42.3
102	0.0	0.0	36.6

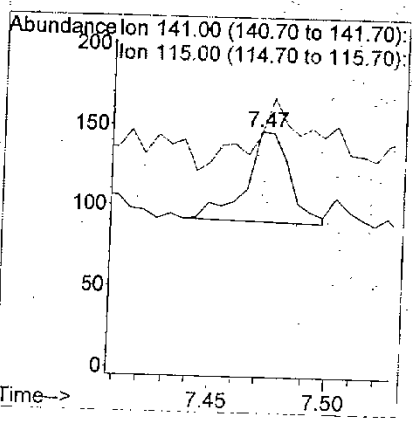
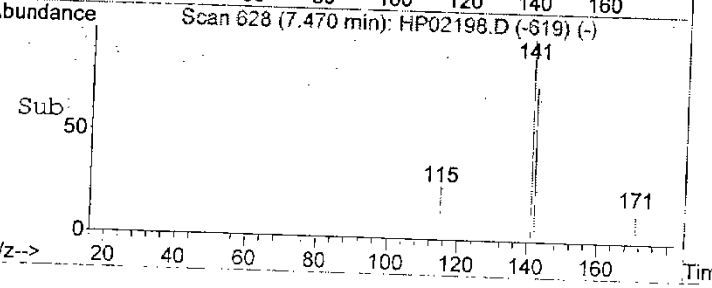


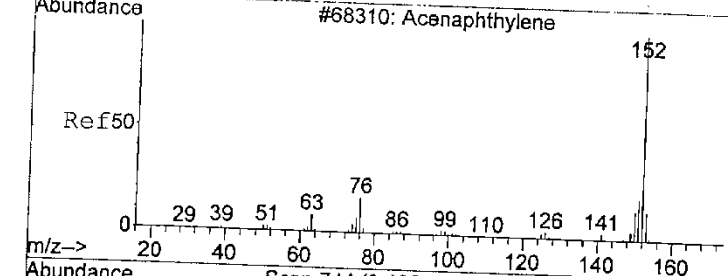
#6
 1-Methylnaphthalene
 Concen: 0.12 ug/L
 RT: 7.47 min Scan# 628
 Delta R.T. -0.00 min
 Lab File: HPO2198.D
 Acq: 25 Aug 2006 11:59



Tgt Ion:141 Resp: 73

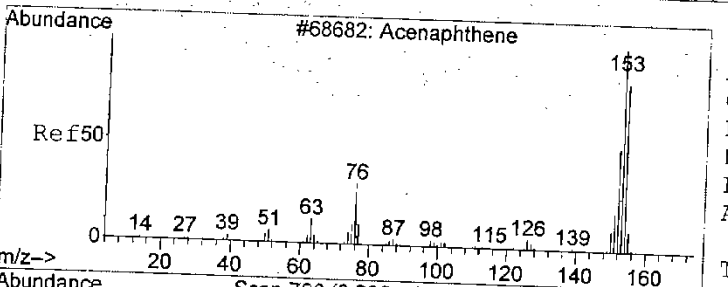
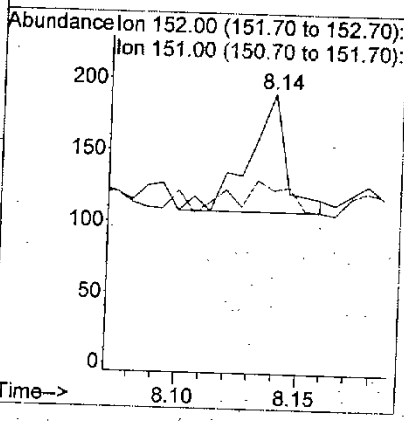
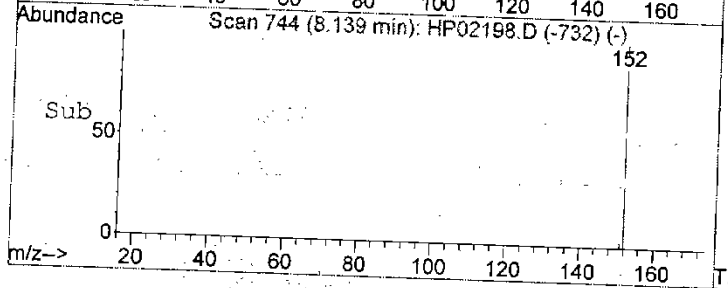
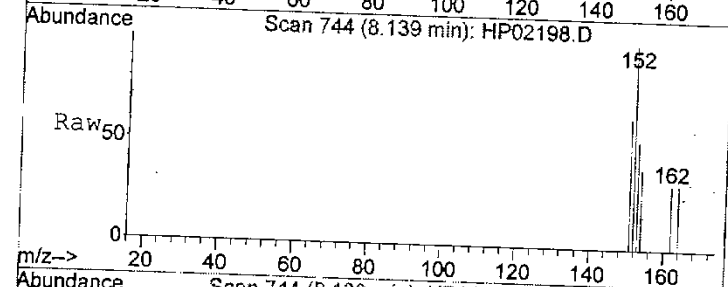
Ion	Ratio	Lower	Upper
141	100		
115	4.6	12.2	72.2#





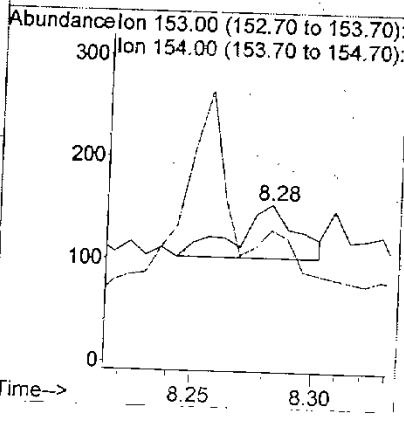
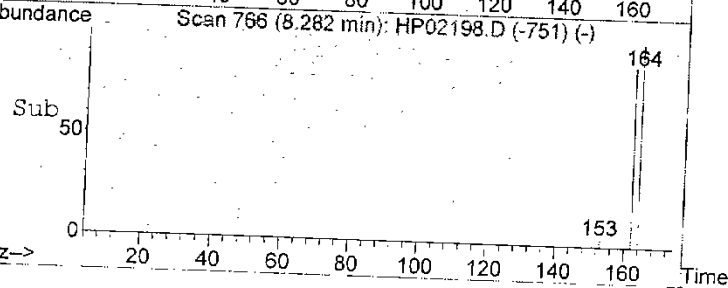
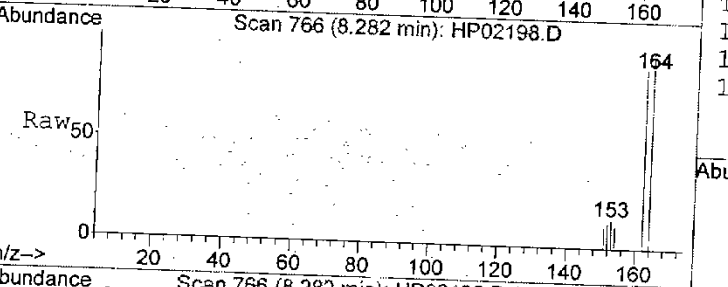
#9
 Acenaphthylene
 Concen: 0.09 ug/L
 RT: 8.14 min Scan# 744
 Delta R.T. 0.01 min
 Lab File: HP02198.D
 Acq: 25 Aug 2006 11:59

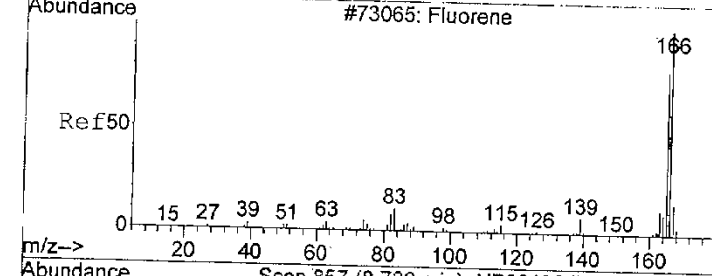
Tgt Ion: 152 Resp: 90
 Ion Ratio Lower Upper
 152 100
 151 10.2 0.0 52.8



#10
 Acenaphthene
 Concen: 0.13 ug/L
 RT: 8.28 min Scan# 766
 Delta R.T. -0.00 min
 Lab File: HP02198.D
 Acq: 25 Aug 2006 11:59

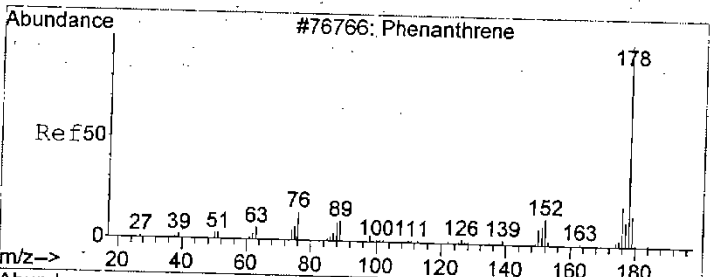
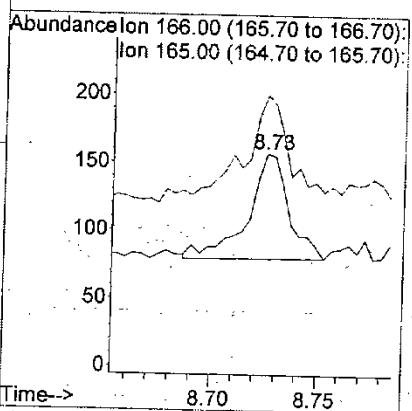
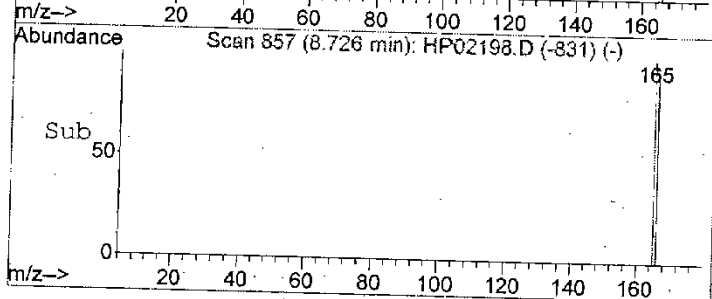
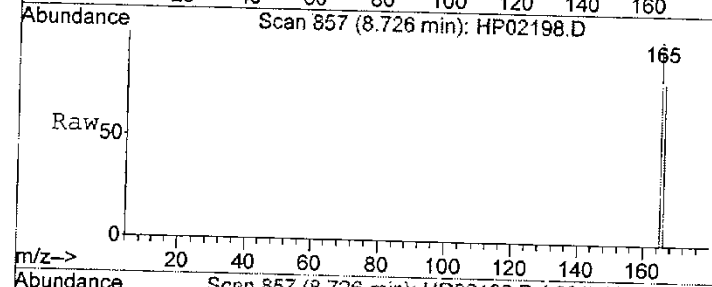
Tgt Ion: 153 Resp: 89
 Ion Ratio Lower Upper
 153 100
 154 47.7 70.7 130.7#





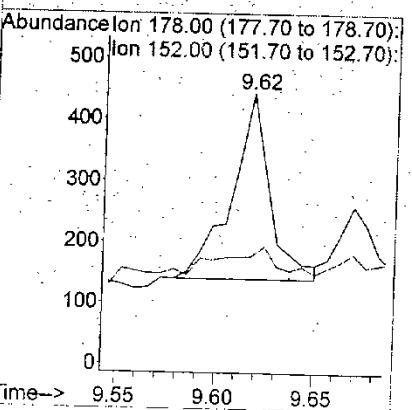
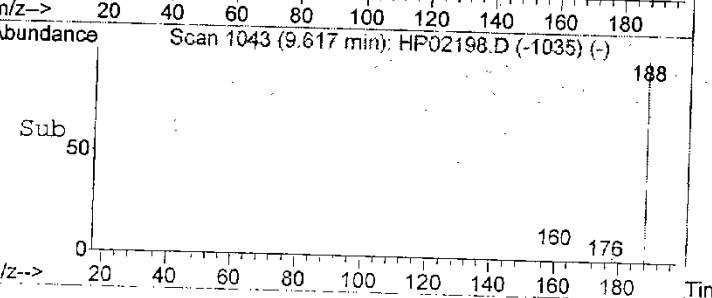
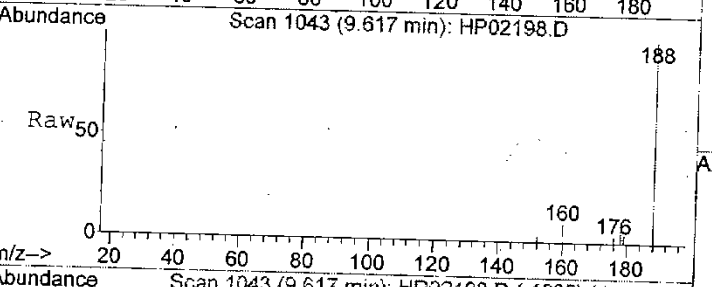
#11
 Fluorene
 Concen: 0.15 ug/L
 RT: 8.73 min Scan# 857
 Delta R.T. -0.00 min
 Lab File: HP02198.D
 Acq: 25 Aug 2006 11:59

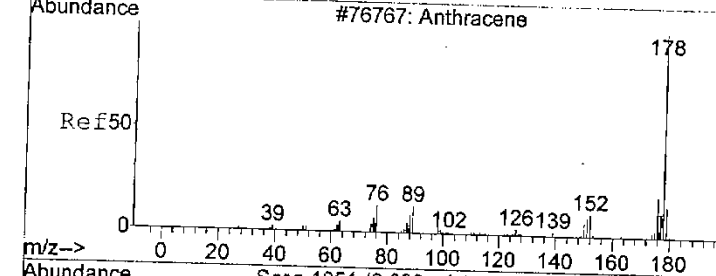
Tgt Ion: 166 Resp: 103
 Ion Ratio Lower Upper
 166 100
 165 93.4 53.2 113.2



#13
 Phenanthrene
 Concen: Below Cal
 RT: 9.62 min Scan# 1043
 Delta R.T. -0.01 min
 Lab File: HP02198.D
 Acq: 25 Aug 2006 11:59

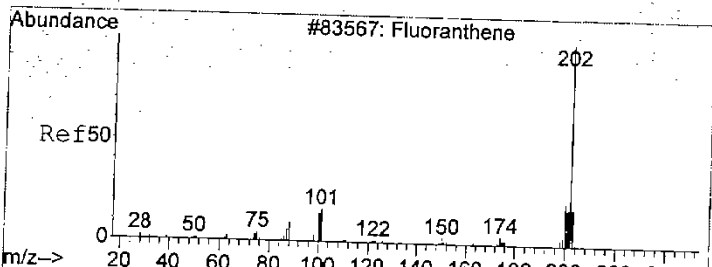
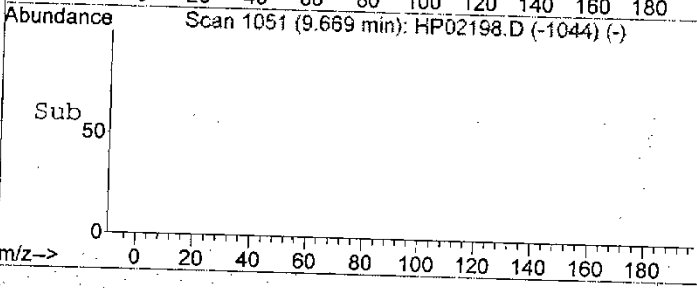
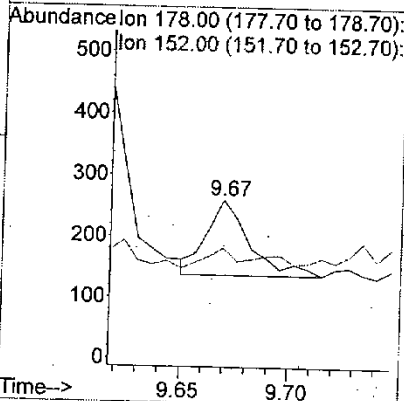
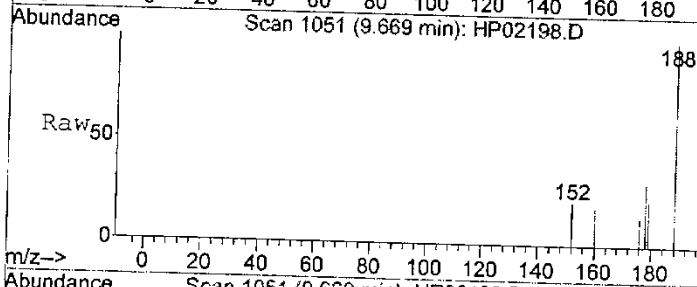
Tgt Ion: 178 Resp: 407
 Ion Ratio Lower Upper
 178 100
 152 8.7 0.0 36.2





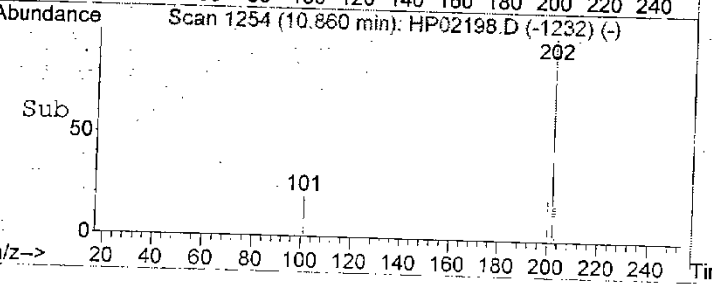
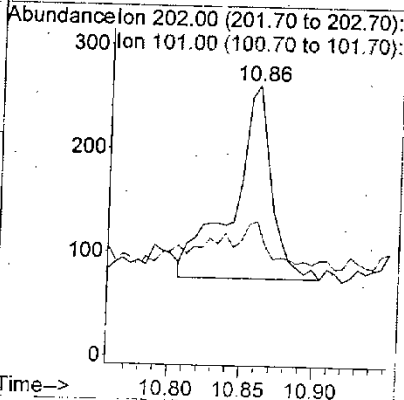
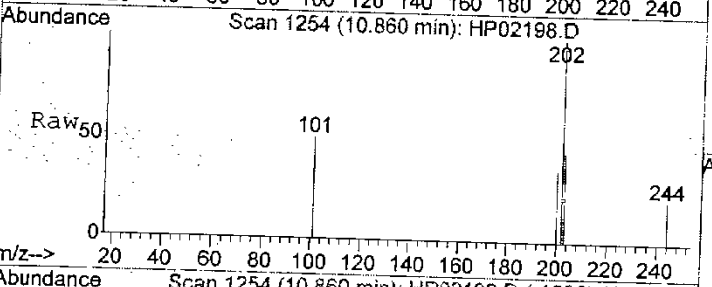
#14
 Anthracene
 Concen: 0.17 ug/L
 RT: 9.67 min Scan# 1051
 Delta R.T. -0.00 min
 Lab File: HP02198.D
 Acq: 25 Aug 2006 11:59

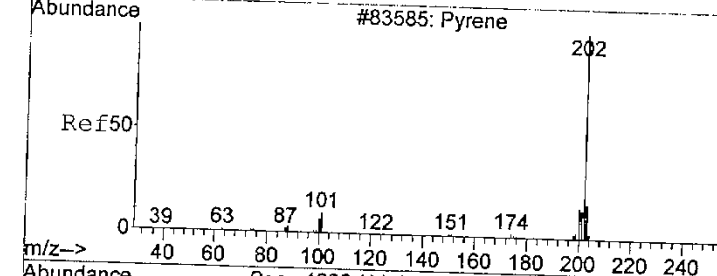
Tgt Ion: 178 Resp: 170
 Ion Ratio Lower Upper
 178 100
 152 22.7 0.0 39.9



#15
 Fluoranthene
 Concen: Below Cal
 RT: 10.86 min Scan# 1254
 Delta R.T. -0.00 min
 Lab File: HP02198.D
 Acq: 25 Aug 2006 11:59

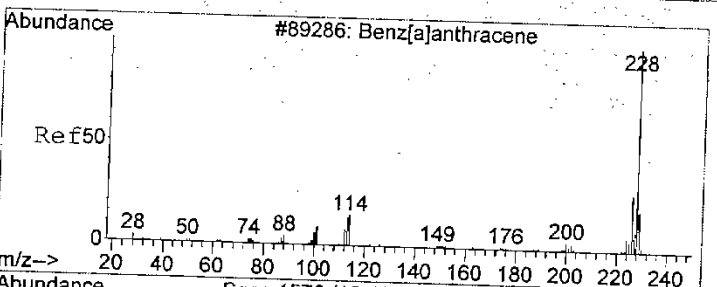
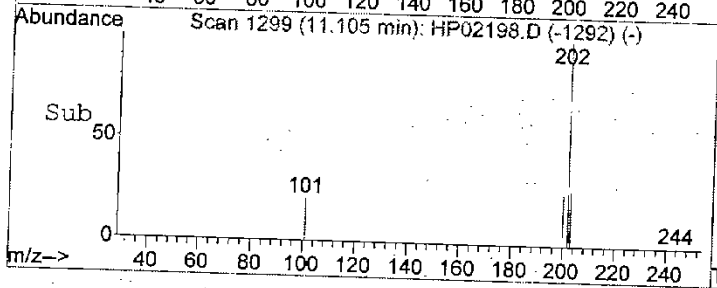
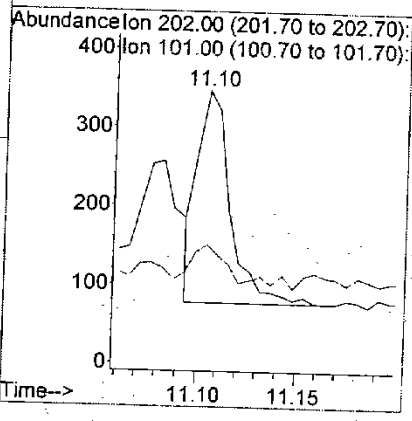
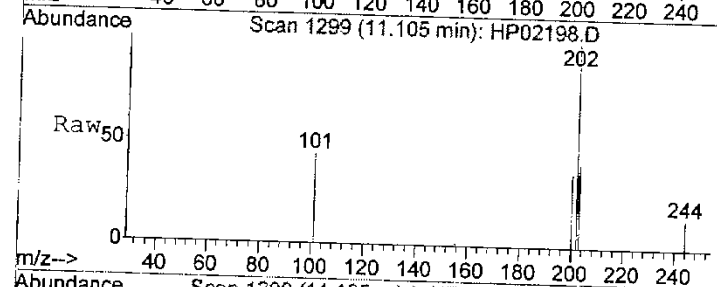
Tgt Ion: 202 Resp: 344
 Ion Ratio Lower Upper
 202 100
 101 17.1 0.0 44.3





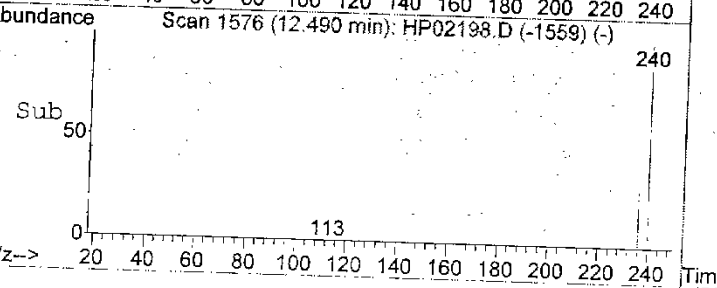
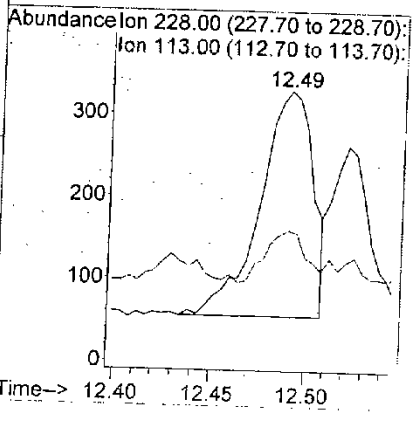
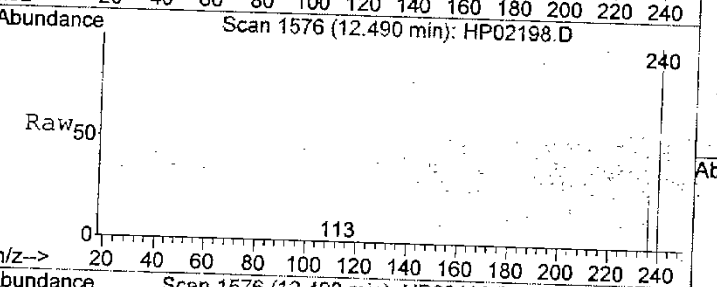
#16
 Pyrene
 Concen: Below Cal
 RT: 11.10 min Scan# 1299
 Delta R.T. -0.01 min
 Lab File: HP02198.D
 Acq: 25 Aug 2006 11:59

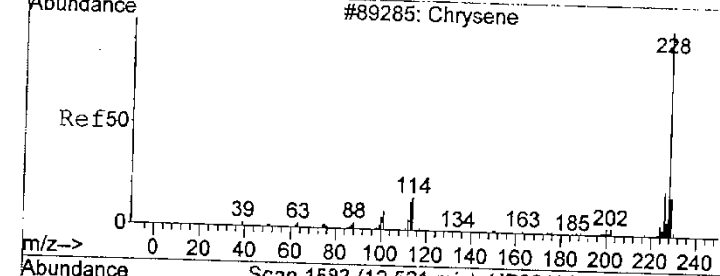
Tgt Ion: 202 Resp: 314
 Ion Ratio Lower Upper
 202 100
 101 17.4 0.0 46.4



#19
 Benzo(a)anthracene
 Concen: Below Cal
 RT: 12.49 min Scan# 1576
 Delta R.T. 0.01 min
 Lab File: HP02198.D
 Acq: 25 Aug 2006 11:59

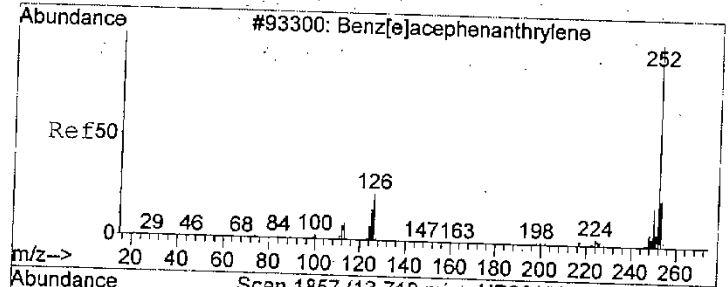
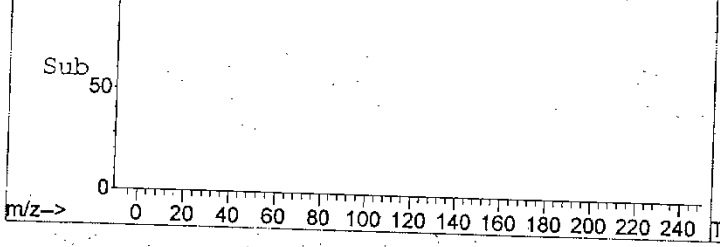
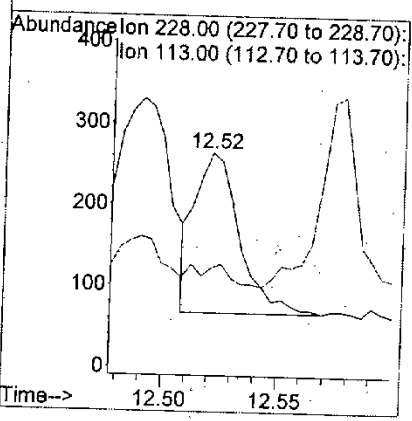
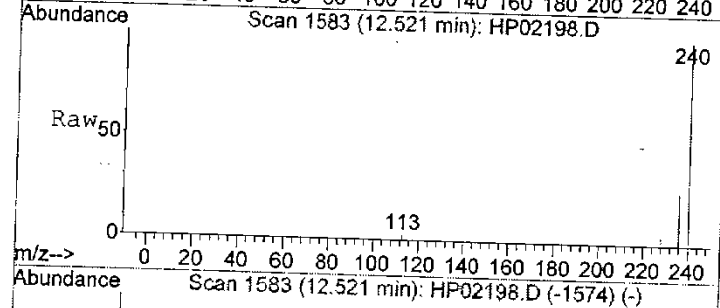
Tgt Ion: 228 Resp: 531
 Ion Ratio Lower Upper
 228 100
 113 20.8 0.0 45.2





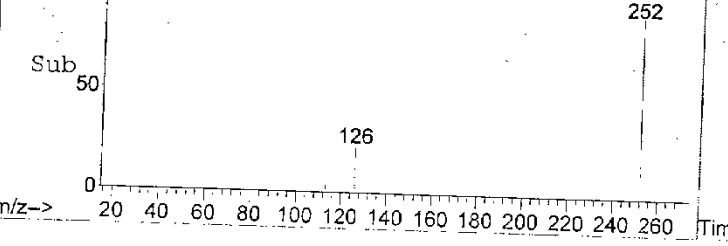
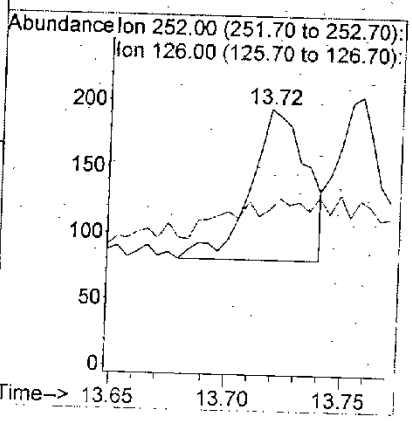
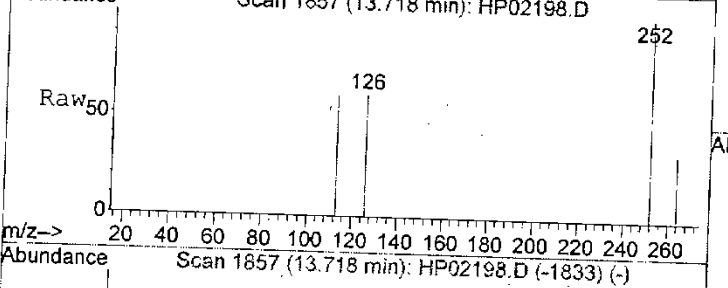
#20
 Chrysene
 Concen: Below Cal
 RT: 12.52 min Scan# 1583
 Delta R.T. -0.00 min
 Lab File: HP02198.D
 Acq: 25 Aug 2006 11:59

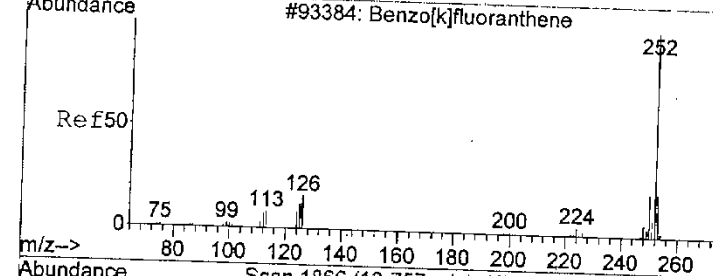
Tgt Ion	Resp	Lower	Upper
228	100		
113	0.0	0.0	45.9



#22
 Benzo(b)fluoranthene
 Concen: Below Cal
 RT: 13.72 min Scan# 1857
 Delta R.T. 0.00 min
 Lab File: HP02198.D
 Acq: 25 Aug 2006 11:59

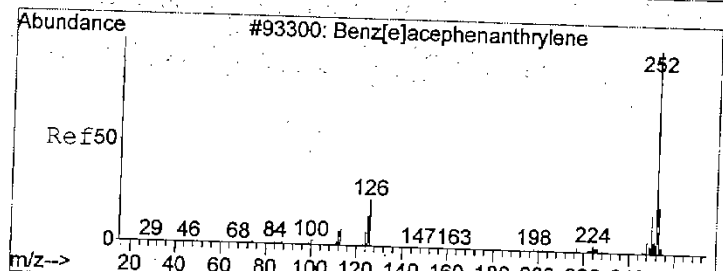
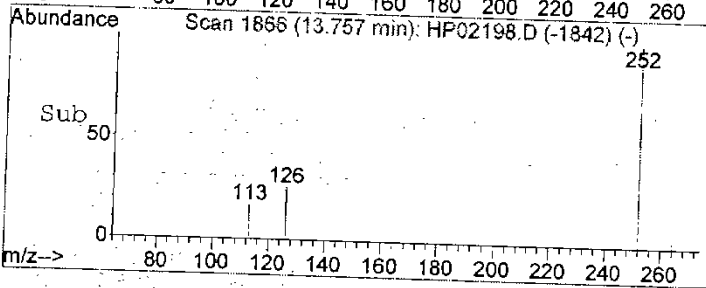
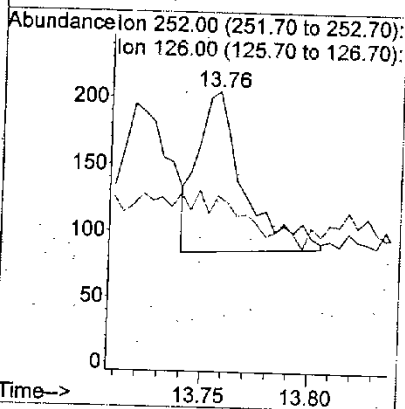
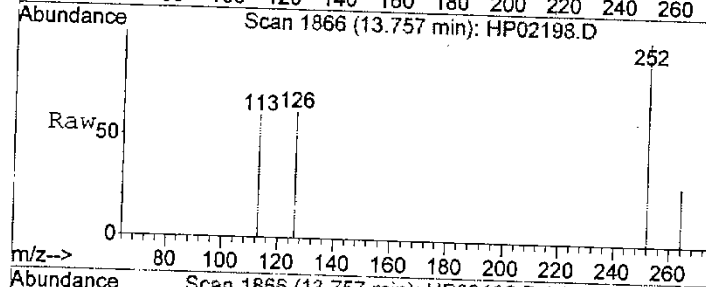
Tgt Ion	Resp	Lower	Upper
252	100		
126	6.8	0.0	38.4





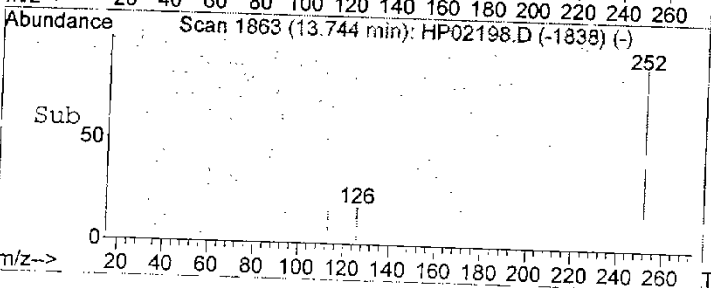
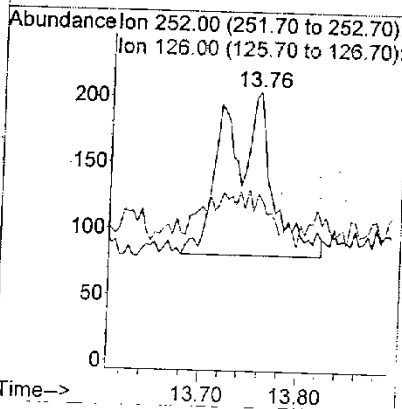
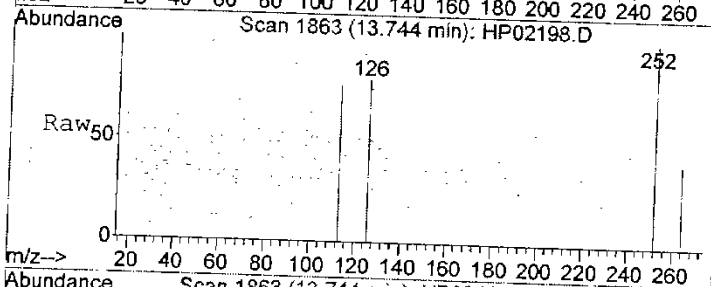
#23
 Benzo(k)fluoranthene
 Concen: Below Cal
 RT: 13.76 min Scan# 1866
 Delta R.T. 0.01 min
 Lab File: HP02198.D
 Acq: 25 Aug 2006 11:59

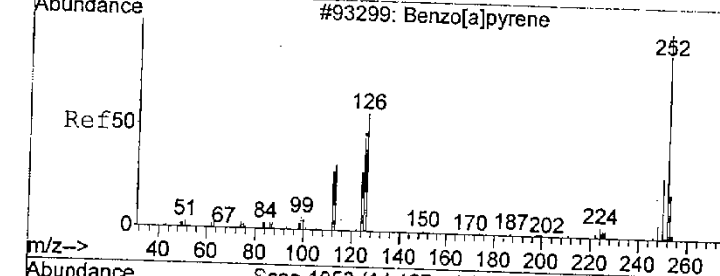
Tgt Ion: 252 Resp: 182
 Ion Ratio Lower Upper
 252 100
 126 15.1 0.0 50.2



#24
 Benzofluoranthenes
 Concen: Below Cal
 RT: 13.74 min Scan# 1863
 Delta R.T. 0.01 min
 Lab File: HP02198.D
 Acq: 25 Aug 2006 11:59

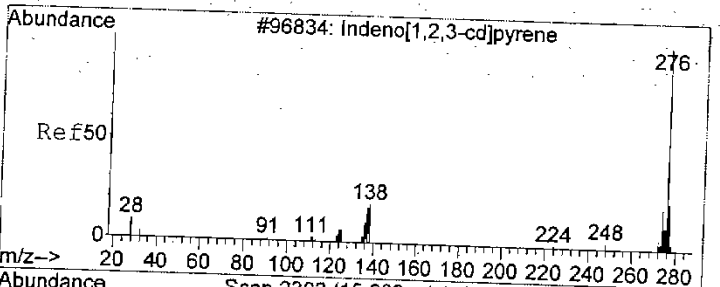
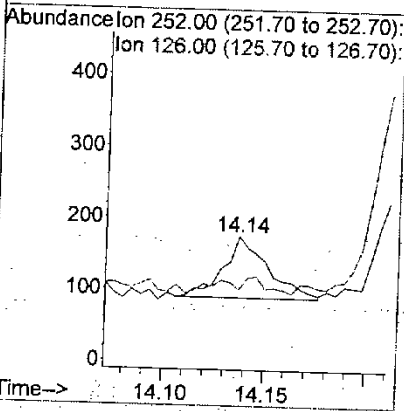
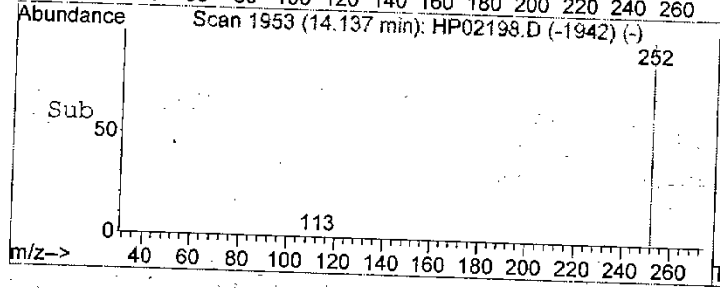
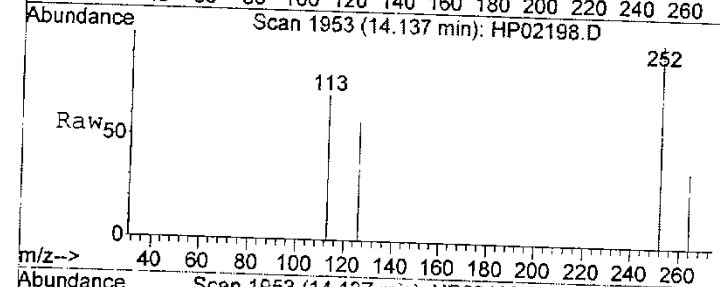
Tgt Ion: 252 Resp: 409
 Ion Ratio Lower Upper
 252 100
 126 27.0 0.0 54.1





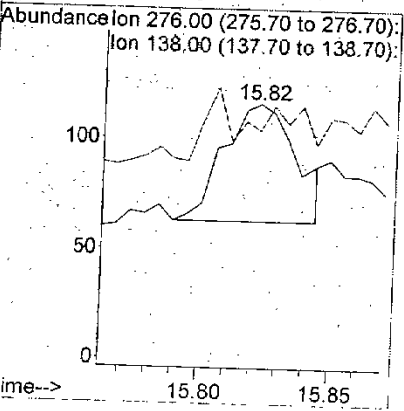
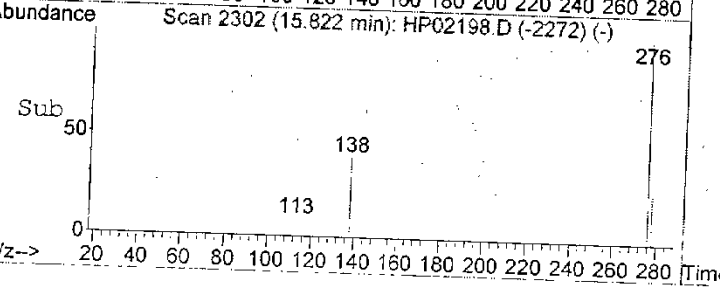
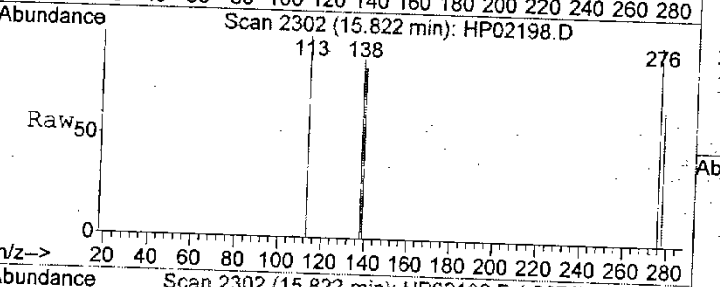
#25
 Benzo(a)pyrene
 Concen: 0.45 ug/L
 RT: 14.14 min Scan# 1953
 Delta R.T. -0.00 min
 Lab File: HP02198.D
 Acq: 25 Aug 2006 11:59

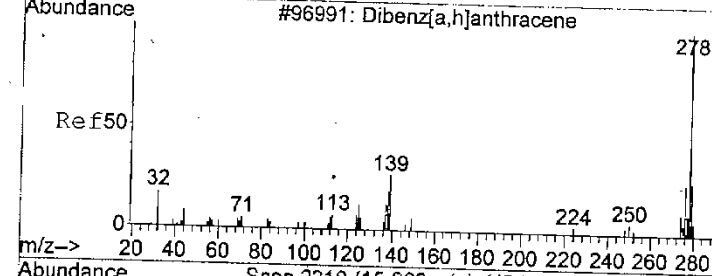
Tgt Ion: 252 Resp: 133
 Ion Ratio Lower Upper
 252 100
 126 0.0 0.0 49.1



#26
 Indeno(1,2,3-cd)pyrene
 Concen: 0.57 ug/L
 RT: 15.82 min Scan# 2302
 Delta R.T. 0.02 min
 Lab File: HP02198.D
 Acq: 25 Aug 2006 11:59

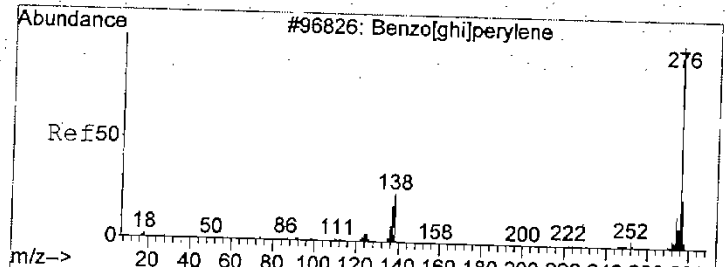
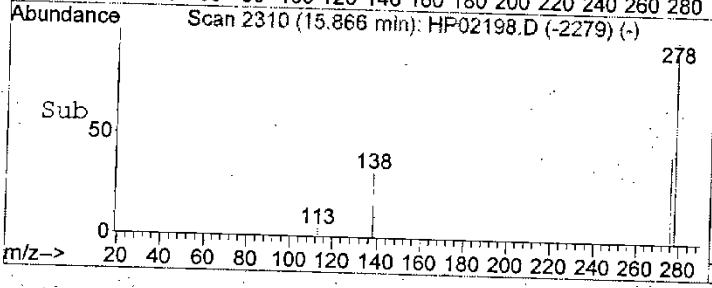
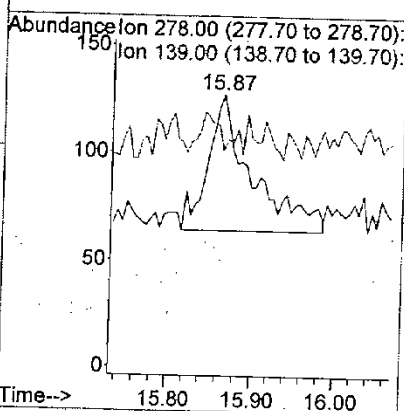
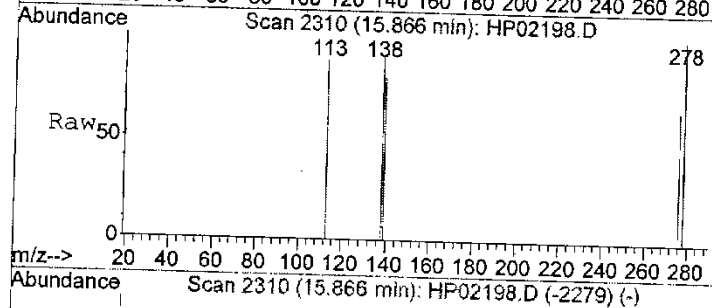
Tgt Ion: 276 Resp: 102
 Ion Ratio Lower Upper
 276 100
 138 23.5 0.0 56.1





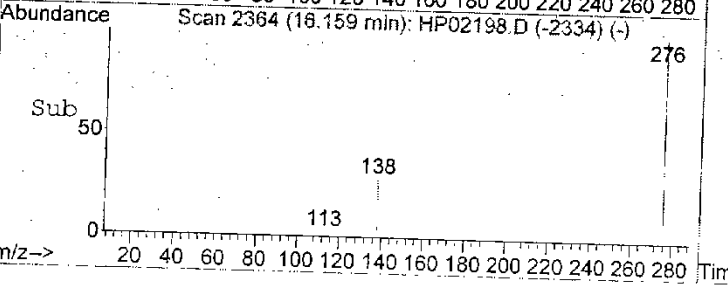
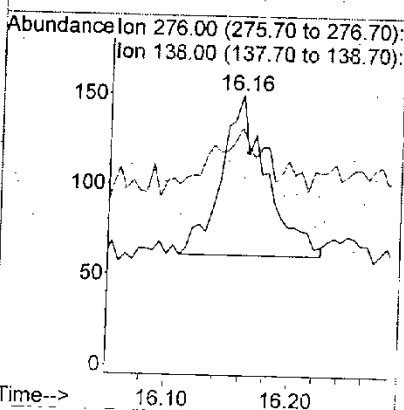
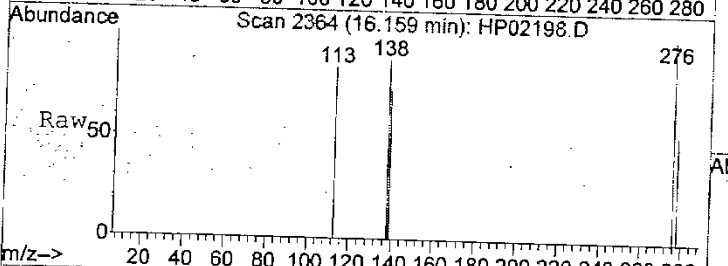
#27
 Dibenz(a,h)anthracene
 Concen: 0.32 ug/L
 RT: 15.87 min Scan# 2310
 Delta R.T. 0.02 min
 Lab File: HP02198.D
 Acq: 25 Aug 2006 11:59

Tgt Ion	Resp	Lower	Upper
278	100		
139	0.0	0.0	50.1



#28
 Benzo(g,h,i)perylene
 Concen: 0.27 ug/L
 RT: 16.16 min Scan# 2364
 Delta R.T. 0.01 min
 Lab File: HP02198.D
 Acq: 25 Aug 2006 11:59

Tgt Ion	Resp	Lower	Upper
276	100		
138	32.9	0.0	58.9



BLANK SPIKE

Data File : Y:\DATA\082506 A\HP02199.D
Acq On : 25 Aug 2006 12:27
Sample : LCS 580-10210/2-A
Misc : BT=S02082506
MS Integration Params: RTEINT.P
Quant Time: Aug 25 13:10:23 2006

Vial: 5
Operator: RBF
Inst : SEA023
Multiplr: 1.00

Quant Results File: PAH080106.RES

Quant Method : Y:\METHODS\PAH080106.M (RTE Integrator)
Title : USEPA Method SIM 8270 Calibration
Last Update : Fri Aug 25 11:11:24 2006
Response via : Initial Calibration
DataAcq Meth : PAHSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Dichlorobenzene-d4 (I)	5.69	152	29355	100.00	ug/L	0.00
2) Naphthalene-d8 (I)	6.79	136	106512	100.00	ug/L	0.00
7) Acenaphthene-d10 (I)	8.26	162	57074	100.00	ug/L	0.00
12) Phenanthrene-d10 (I)	9.59	188	85770	100.00	ug/L	0.00
18) Chrysene-d12 (I)	12.49	240	89530	100.00	ug/L	0.00
21) Perylene-d12 (I)	14.21	264	81445	100.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
3) Nitrobenzene - d5 (S)	6.18	82	433550	1235.54	ug/L	0.00
8) 2 - Fluorobiphenyl (S)	7.70	172	829105	1073.06	ug/L	0.00
17) Terphenyl - d14 (S)	11.30	244	712126	1078.61	ug/L	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	6.81	128	1278540	1152.94	ug/L	97
5) 2-Methylnaphthalene	7.39	141	684446	1143.70	ug/L	96
6) 1-Methylnaphthalene	7.47	141	717318	1161.49	ug/L	97
9) Acenaphthylene	8.13	152	1253127	1207.72	ug/L	99
10) Acenaphthene	8.28	153	803726	1119.35	ug/L	96
11) Fluorene	8.73	166	884118	1194.19	ug/L	98
13) Phenanthrene	9.62	178	1212153	1130.42	ug/L	100
14) Anthracene	9.66	178	1210905	1133.14	ug/L	99
15) Fluoranthene	10.85	202	1240220	1128.20	ug/L	99
16) Pyrene	11.10	202	1333331	1098.55	ug/L	87
19) Benzo(a)anthracene	12.48	228	1178091	1251.28	ug/L	99
20) Chrysene	12.52	228	1188054	1172.99	ug/L	99
22) Benzo(b)fluoranthene	13.71	252	1203732	1255.24	ug/L	100
23) Benzo(k)fluoranthene	13.75	252	1237706	1180.70	ug/L	99
24) Benzofluoranthenes	13.73	252	2460272	2433.55	ug/L	94
25) Benzo(a)pyrene	14.13	252	1090795	1290.52	ug/L	98
26) Indeno(1,2,3-cd)pyrene	15.80	276	913333	1197.77	ug/L	99
27) Dibenz(a,h)anthracene	15.84	278	989705	1164.71	ug/L	97
28) Benzo(g,h,i)perylene	16.14	276	1051371	1039.16	ug/L	98

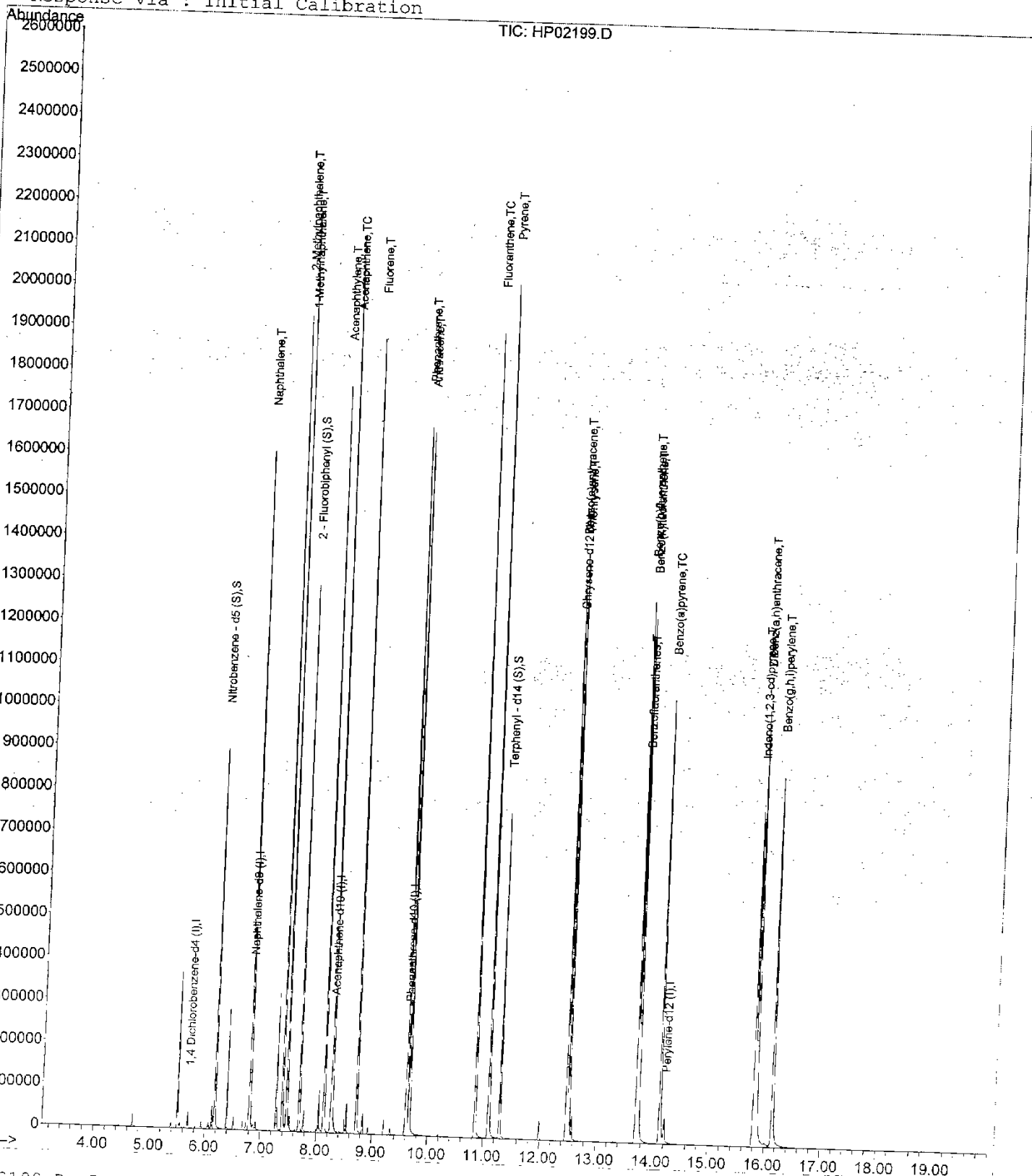
(#) = qualifier out of range (m) = manual integration (+) = signals summed
HP02199.D PAH080106.M Fri Aug 25 14:02:23 2006

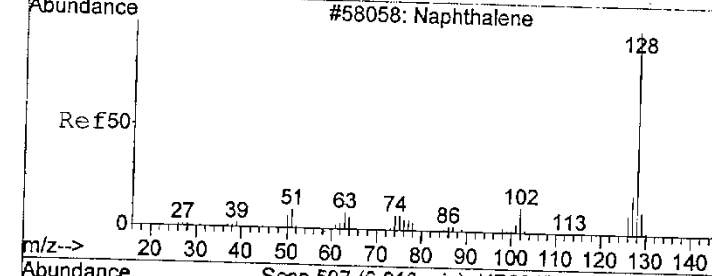
Data File : Y:\DATA\082506_A\HP02199.D
Acq On : 25 Aug 2006 12:27
Sample : LCS 580-10210/2-A
Misc : BT=S02082506
MS Integration Params: RTEINT.P
Quant Time: Aug 25 13:10 2006

Vial: 5
Operator: RBF
Inst : SEA023
Multiplr: 1.00

Quant Results File: PAH080106.RES

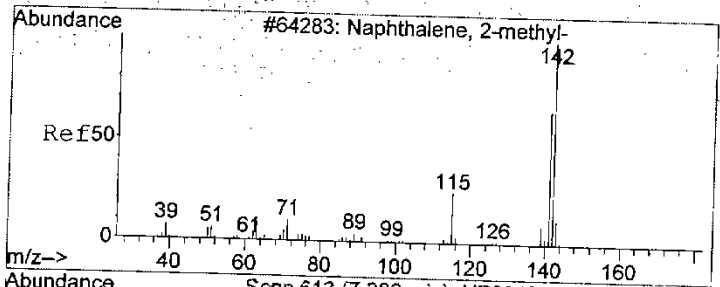
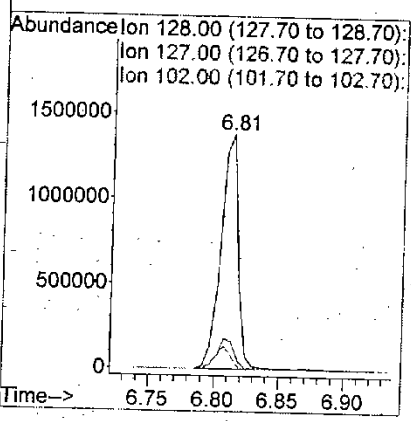
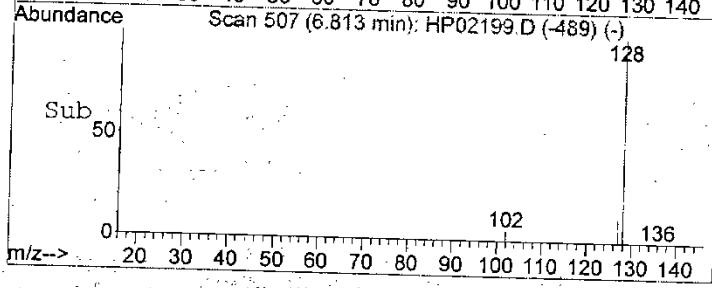
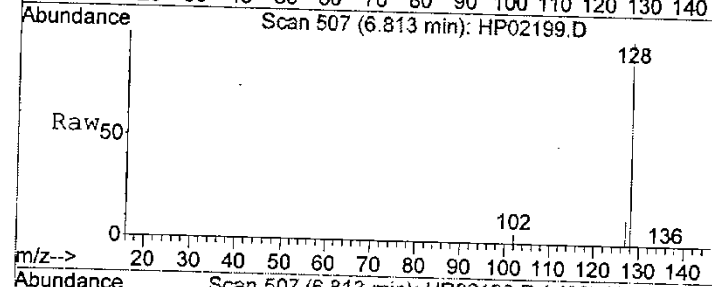
Method : Y:\METHODS\PAH080106.M (RTE Integrator)
Title : USEPA Method SIM 8270 Calibration
Last Update : Fri Aug 25 11:11:24 2006
Response via : Initial Calibration





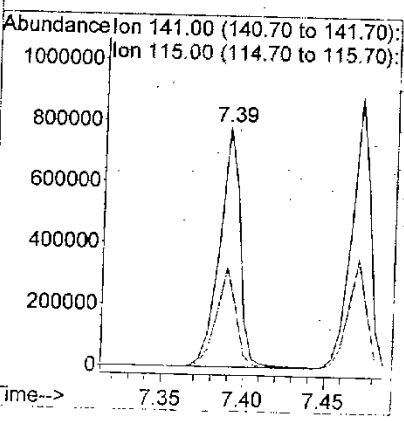
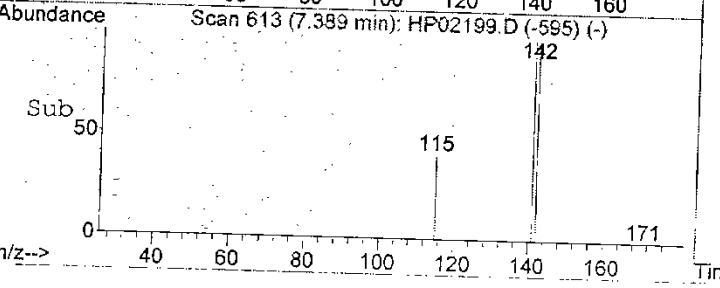
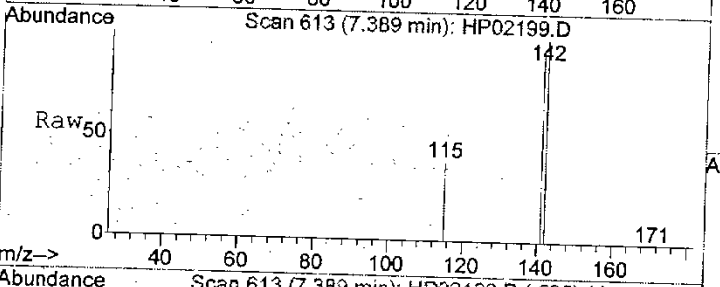
#4
 Naphthalene
 Concen: 1152.94 ug/L
 RT: 6.81 min Scan# 507
 Delta R.T. 0.00 min
 Lab File: HP02199.D
 Acq: 25 Aug 2006 12:27

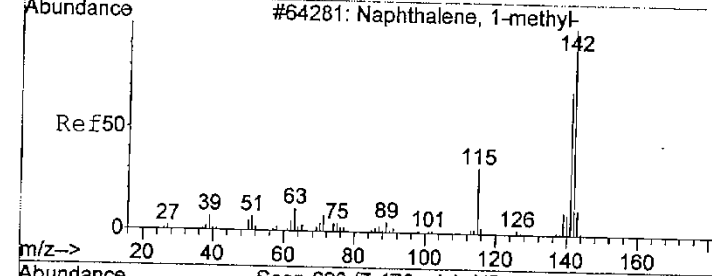
Tgt Ion	Resp	Lower	Upper
128	100		
127	11.4	0.0	42.3
102	5.5	0.0	36.6



#5
 2-Methylnaphthalene
 Concen: 1143.70 ug/L
 RT: 7.39 min Scan# 613
 Delta R.T. 0.00 min
 Lab File: HP02199.D
 Acq: 25 Aug 2006 12:27

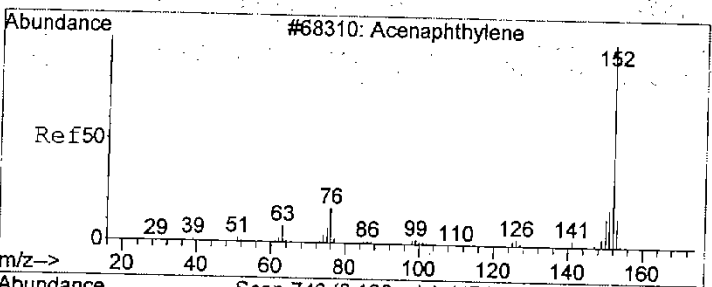
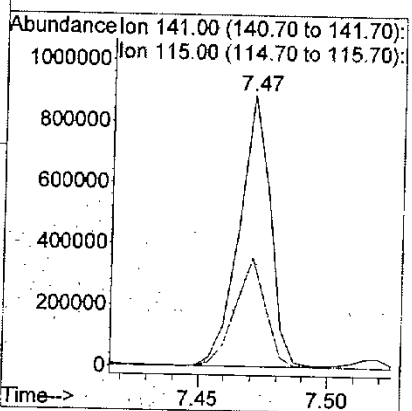
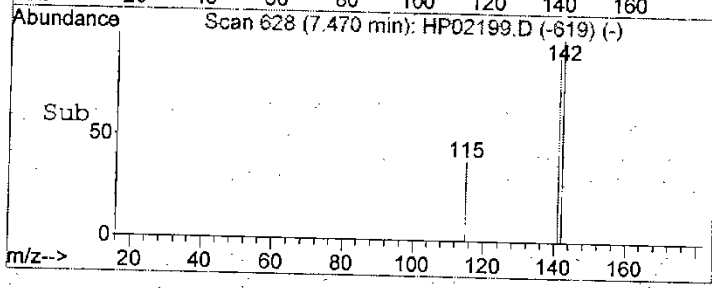
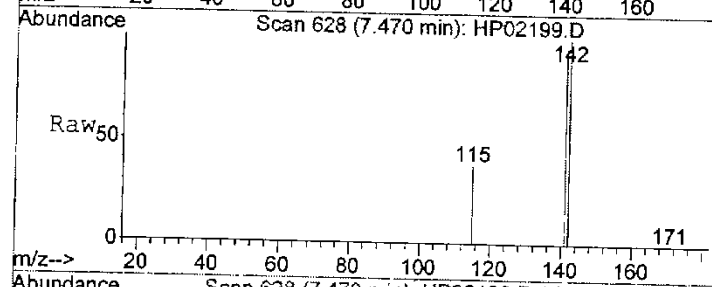
Tgt Ion	Resp	Lower	Upper
141	100		
115	41.2	13.5	73.5





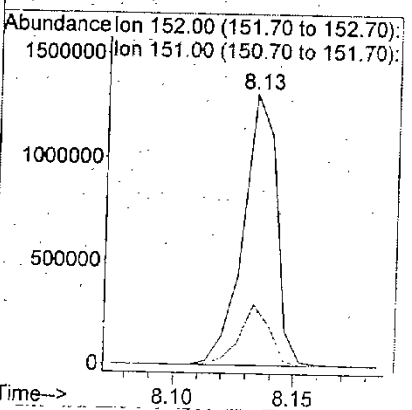
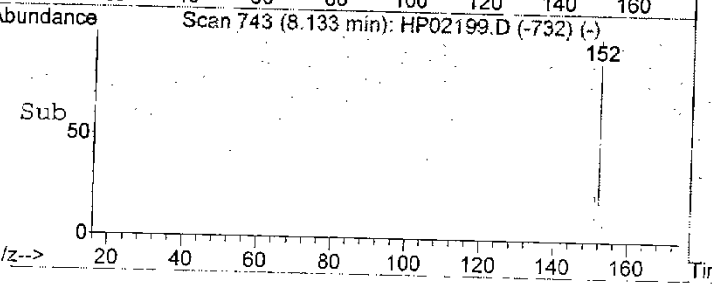
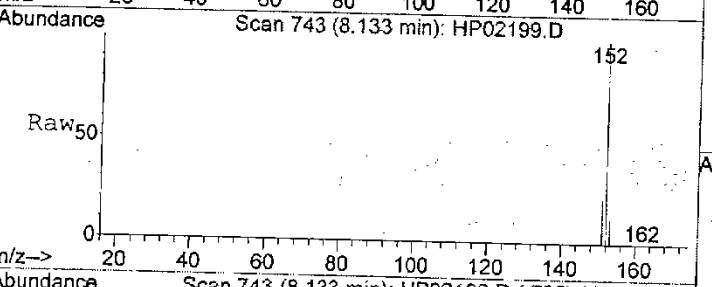
#6
 1-Methylnaphthalene
 Concen: 1161.49 ug/L
 RT: 7.47 min Scan# 628
 Delta R.T. 0.00 min
 Lab File: HP02199.D
 Acq: 25 Aug 2006 12:27

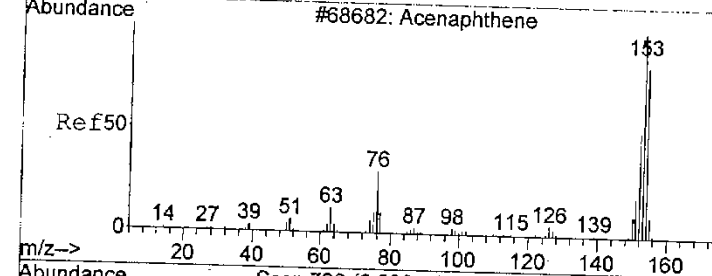
Tgt Ion: 141 Resp: 717318
 Ion Ratio Lower Upper
 141 100
 115 40.1 12.2 72.2



#9
 Acenaphthylene
 Concen: 1207.72 ug/L
 RT: 8.13 min Scan# 743
 Delta R.T. 0.00 min
 Lab File: HP02199.D
 Acq: 25 Aug 2006 12:27

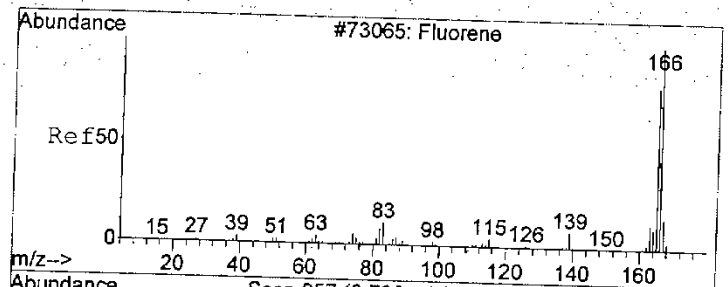
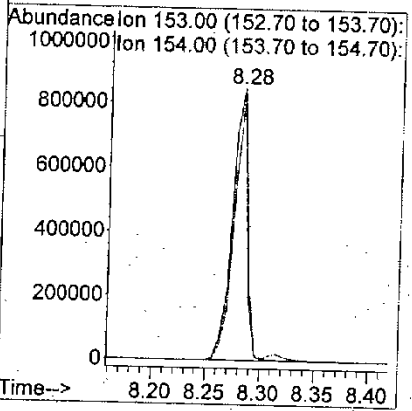
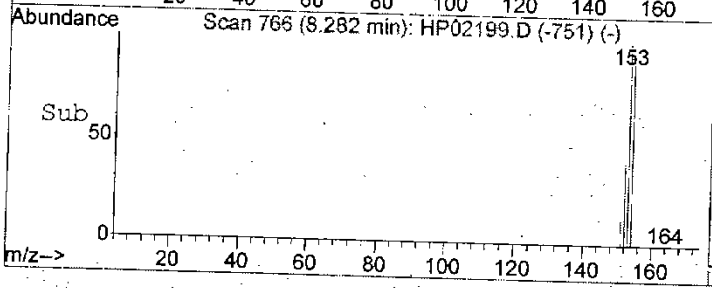
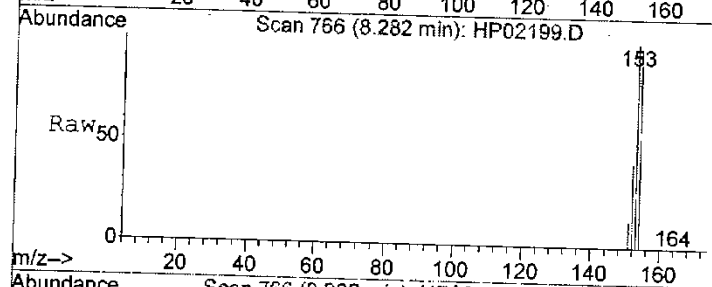
Tgt Ion: 152 Resp: 1253127
 Ion Ratio Lower Upper
 152 100
 151 22.5 0.0 52.8





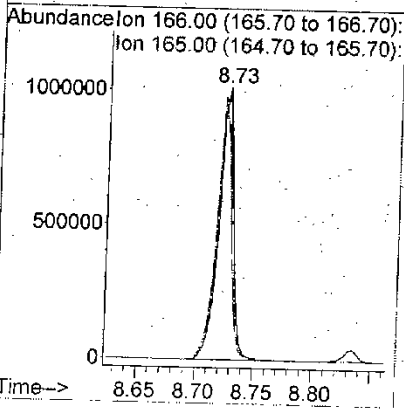
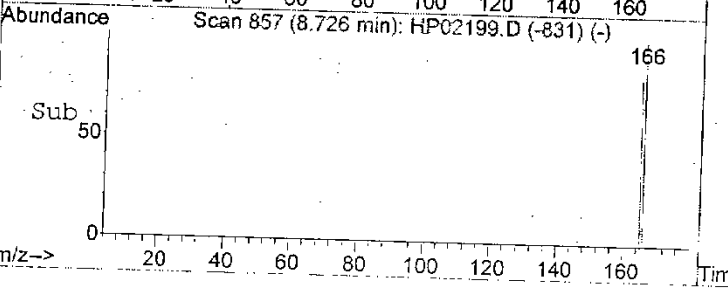
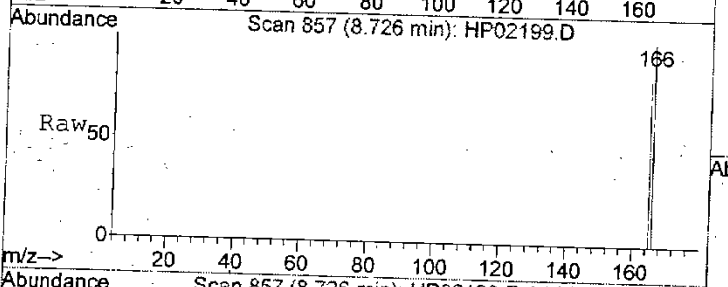
#10
 Acenaphthene
 Concen: 1119.35 ug/L
 RT: 8.28 min Scan# 766
 Delta R.T. 0.00 min
 Lab File: HP02199.D
 Acq: 25 Aug 2006 12:27

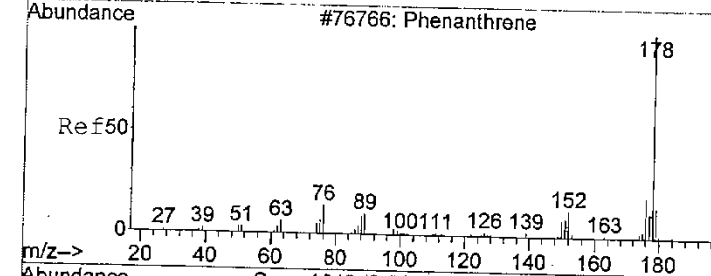
Tgt Ion: 153 Resp: 803726
 Ion Ratio Lower Upper
 153 100
 154 96.4 70.7 130.7



#11
 Fluorene
 Concen: 1194.19 ug/L
 RT: 8.73 min Scan# 857
 Delta R.T. 0.00 min
 Lab File: HP02199.D
 Acq: 25 Aug 2006 12:27

Tgt Ion: 166 Resp: 884118
 Ion Ratio Lower Upper
 166 100
 165 81.7 53.2 113.2

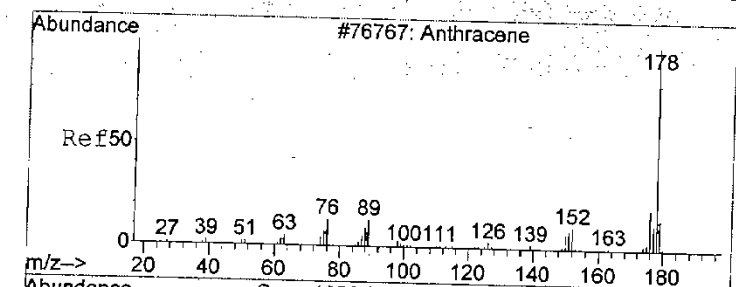
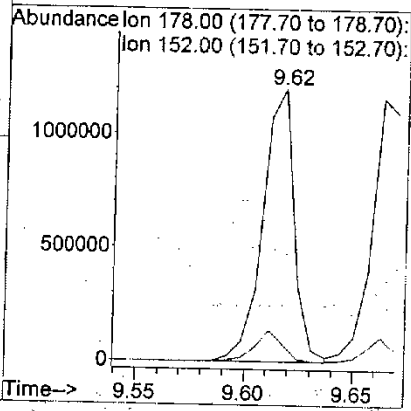
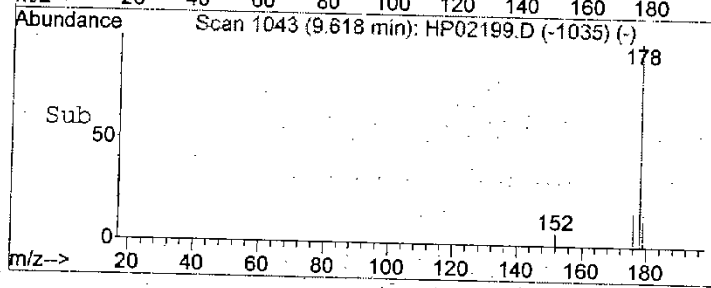
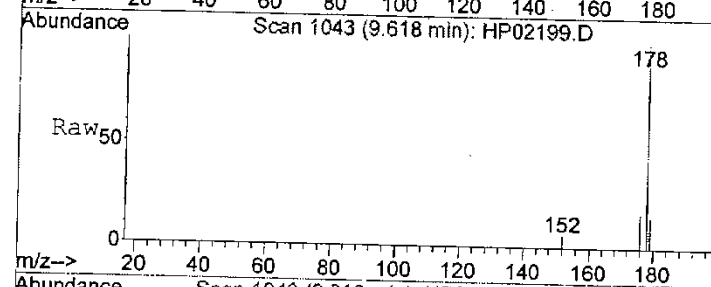




#13
 Phenanthrene
 Concen: 1130.42 ug/L
 RT: 9.62 min Scan# 1043
 Delta R.T. -0.01 min
 Lab File: HP02199.D
 Acq: 25 Aug 2006 12:27

Tgt Ion: 178 Resp: 1212153

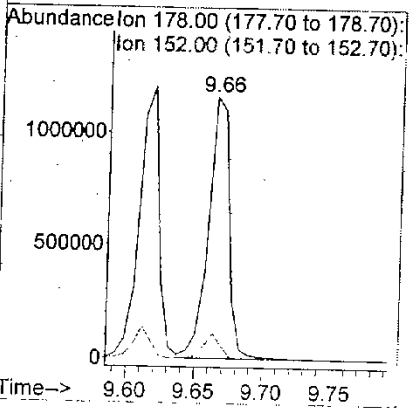
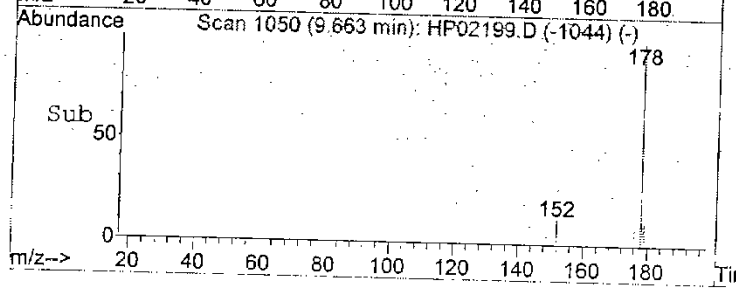
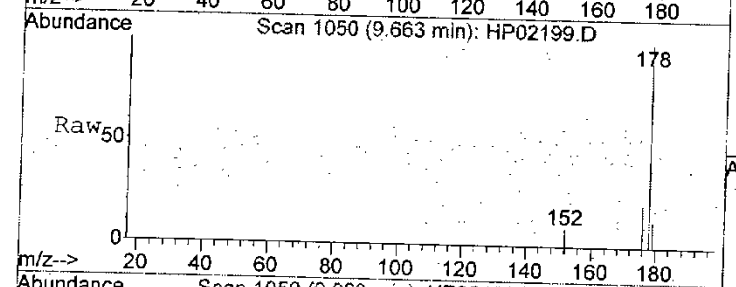
Ion	Ratio	Lower	Upper
178	100		
152	6.2	0.0	36.2

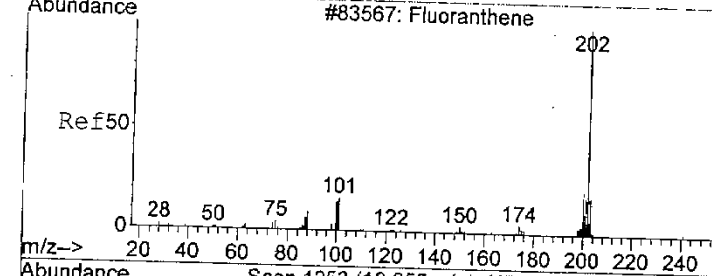


#14
 Anthracene
 Concen: 1133.14 ug/L
 RT: 9.66 min Scan# 1050
 Delta R.T. -0.01 min
 Lab File: HP02199.D
 Acq: 25 Aug 2006 12:27

Tgt Ion: 178 Resp: 1210905

Ion	Ratio	Lower	Upper
178	100		
152	9.4	0.0	39.9

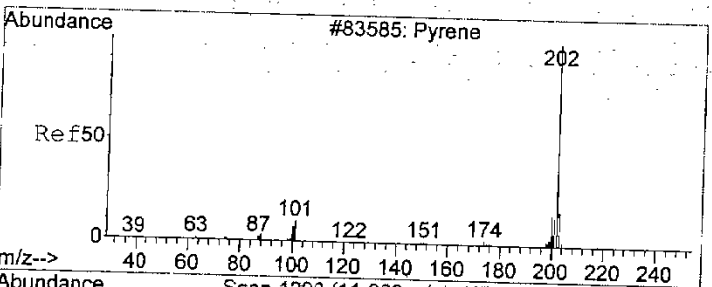
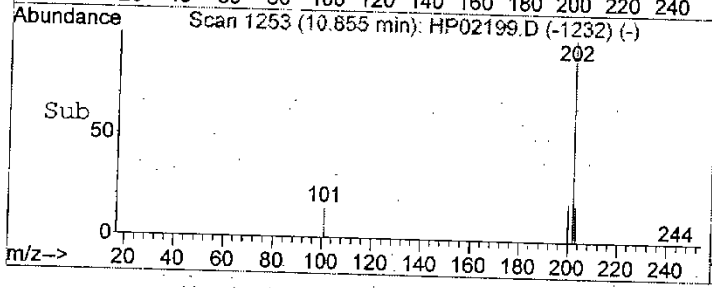
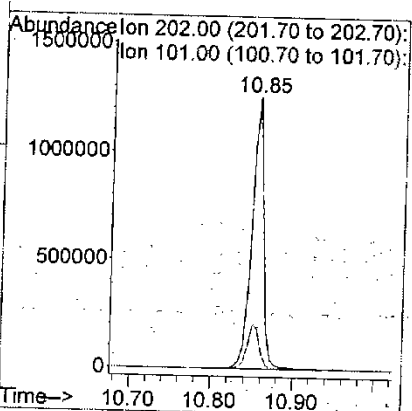
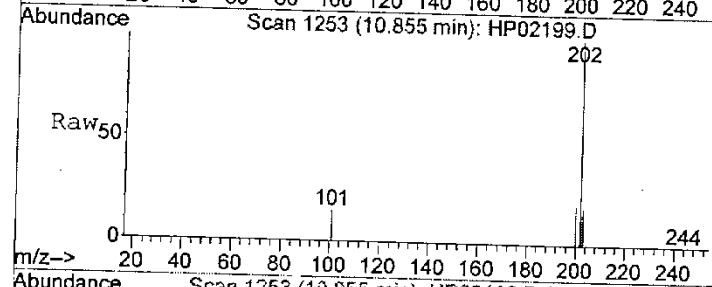




#15
 Fluoranthene
 Concen: 1128.20 ug/L
 RT: 10.85 min Scan# 1253
 Delta R.T. -0.01 min
 Lab File: HP02199.D
 Acq: 25 Aug 2006 12:27

Tgt Ion: 202 Resp: 1240220

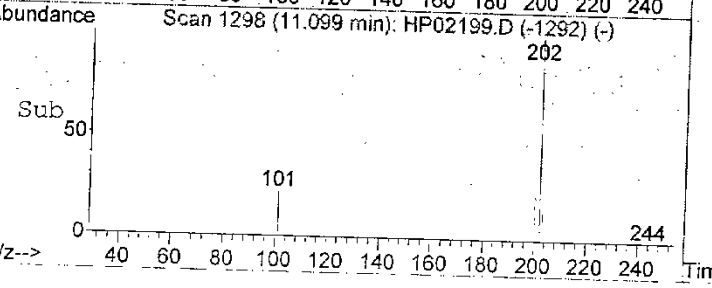
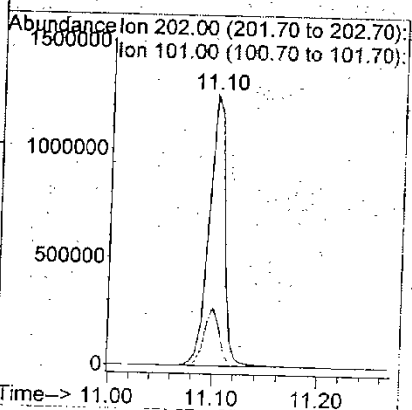
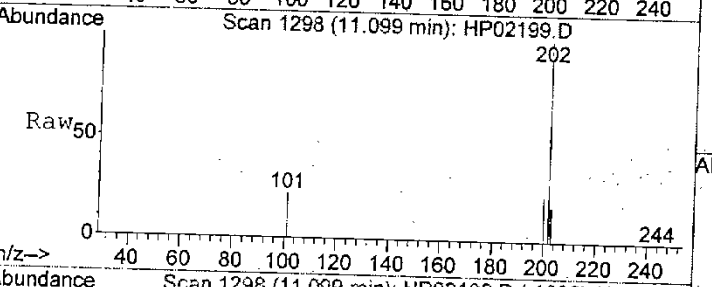
Ion	Ratio	Lower	Upper
202	100		
101	14.6	0.0	44.3

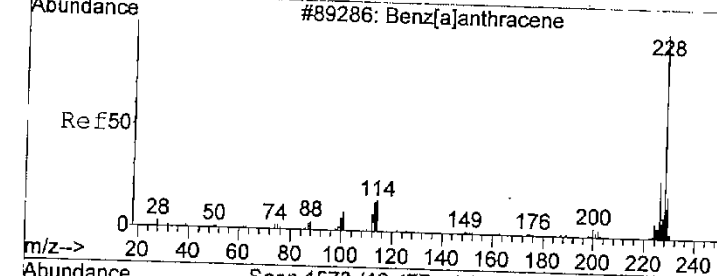


#16
 Pyrene
 Concen: 1098.55 ug/L
 RT: 11.10 min Scan# 1298
 Delta R.T. -0.01 min
 Lab File: HP02199.D
 Acq: 25 Aug 2006 12:27

Tgt Ion: 202 Resp: 1333331

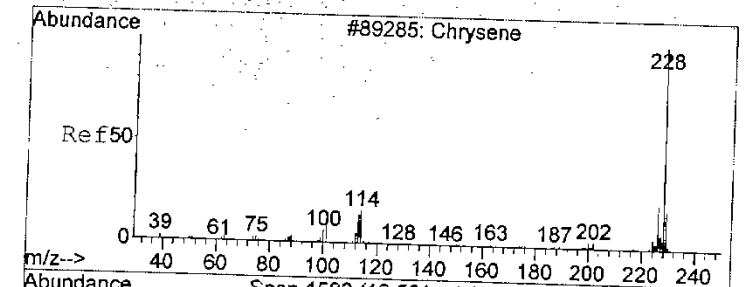
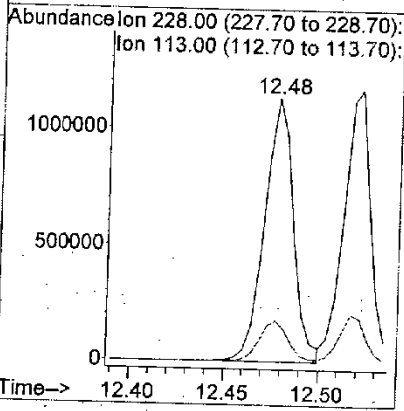
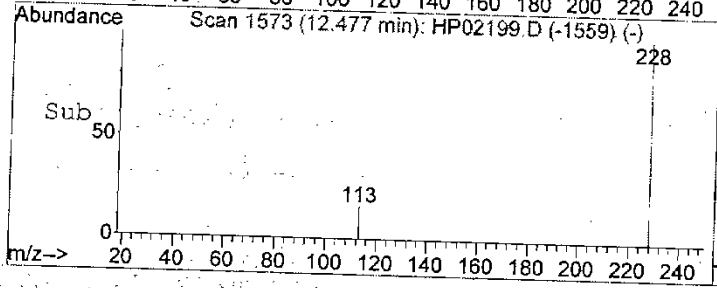
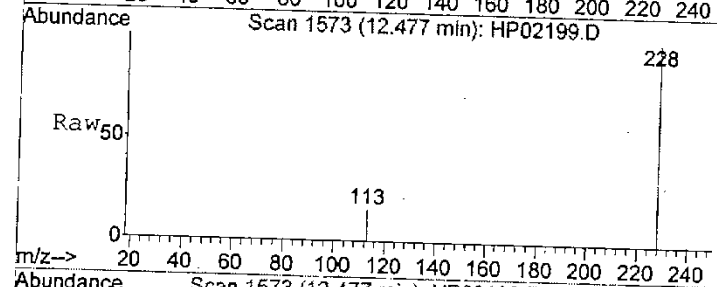
Ion	Ratio	Lower	Upper
202	100		
101	21.9	0.0	46.4





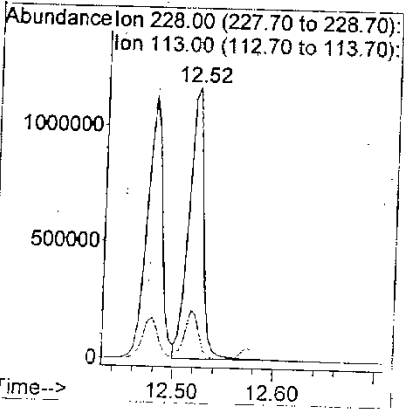
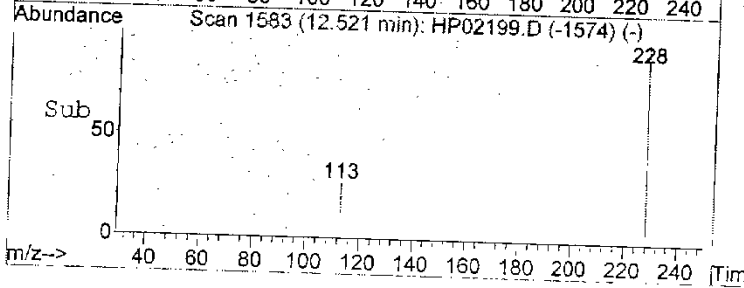
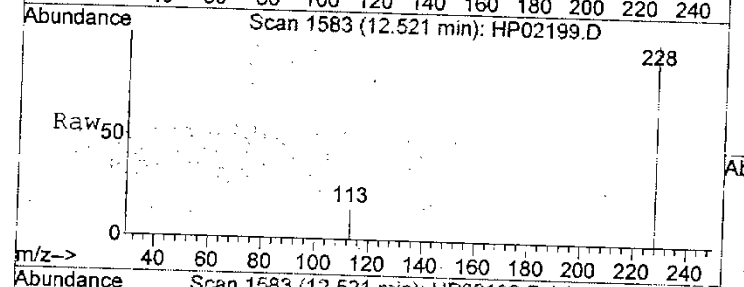
#19
 Benzo(a)anthracene
 Concen: 1251.28 ug/L
 RT: 12.48 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: HP02199.D
 Acq: 25 Aug 2006 12:27

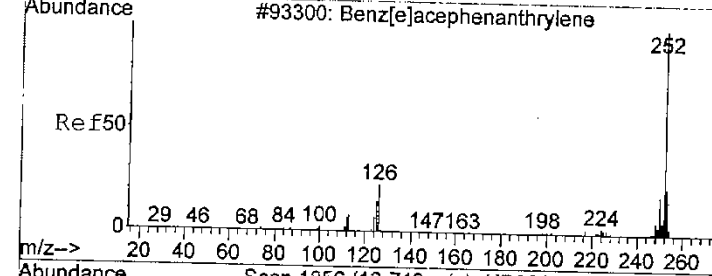
Tgt Ion: 228 Resp: 1178091
 Ion Ratio Lower Upper
 228 100
 113 15.6 0.0 45.2



#20
 Chrysene
 Concen: 1172.99 ug/L
 RT: 12.52 min Scan# 1583
 Delta R.T. 0.00 min
 Lab File: HP02199.D
 Acq: 25 Aug 2006 12:27

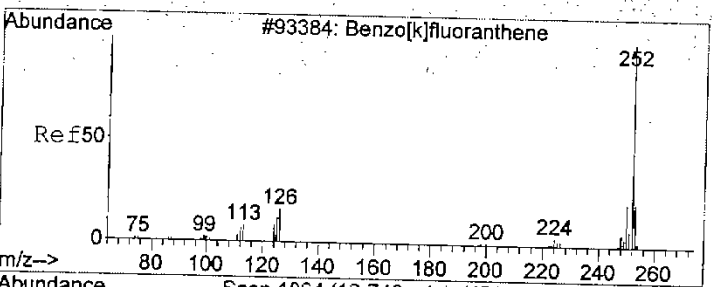
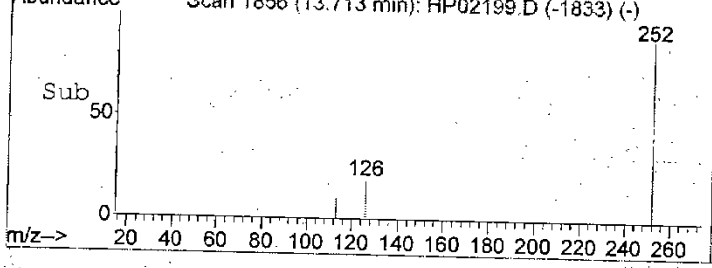
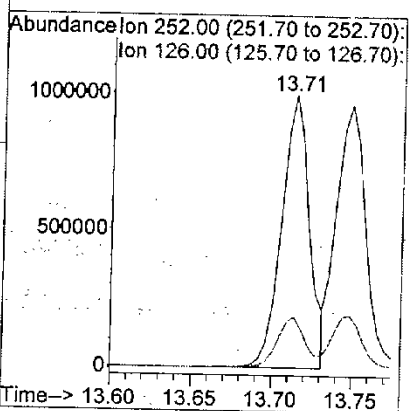
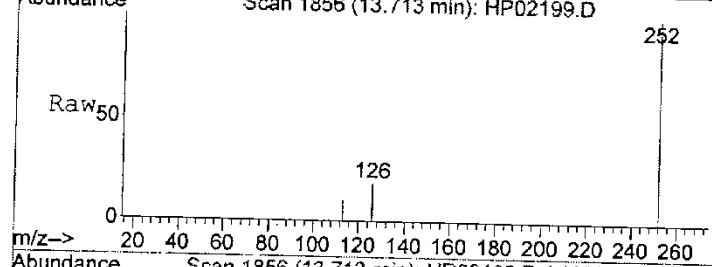
Tgt Ion: 228 Resp: 1188054
 Ion Ratio Lower Upper
 228 100
 113 16.2 0.0 45.9





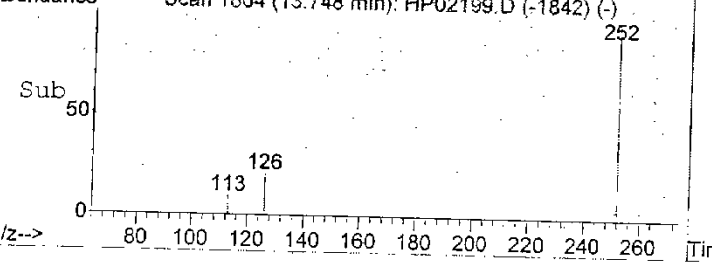
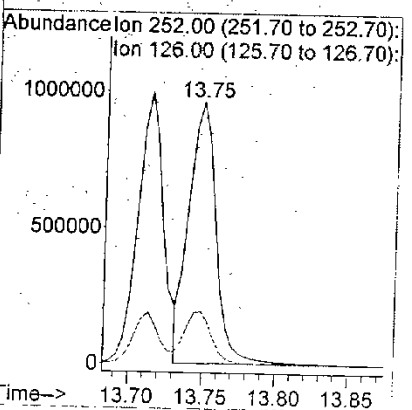
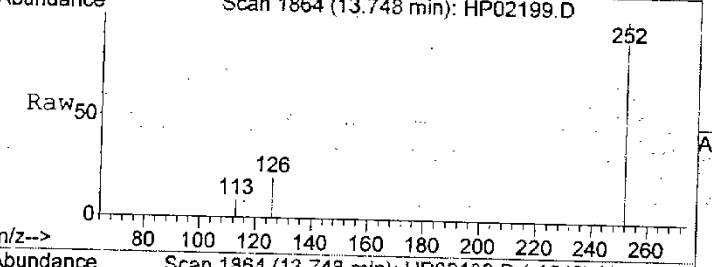
#22
 Benzo(b)fluoranthene
 Concen: 1255.24 ug/L
 RT: 13.71 min Scan# 1856
 Delta R.T. 0.00 min
 Lab File: HP02199.D
 Acq: 25 Aug 2006 12:27

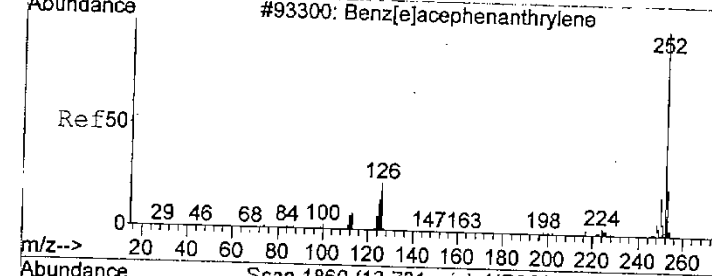
Tgt Ion: 252 Resp: 1203732
 Ion Ratio Lower Upper
 252 100
 126 18.4 0.0 38.4



#23
 Benzo(k)fluoranthene
 Concen: 1180.70 ug/L
 RT: 13.75 min Scan# 1864
 Delta R.T. 0.00 min
 Lab File: HP02199.D
 Acq: 25 Aug 2006 12:27

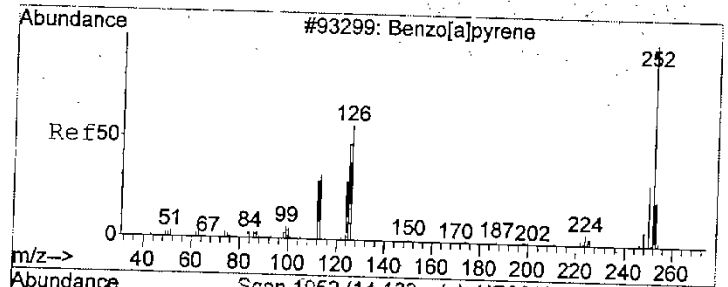
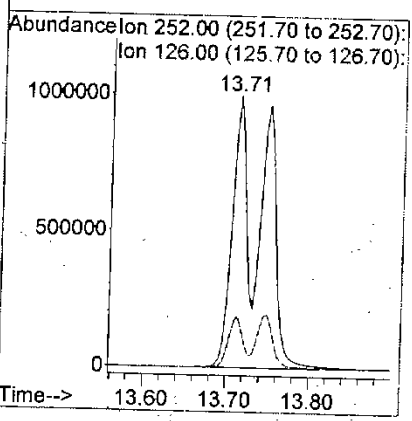
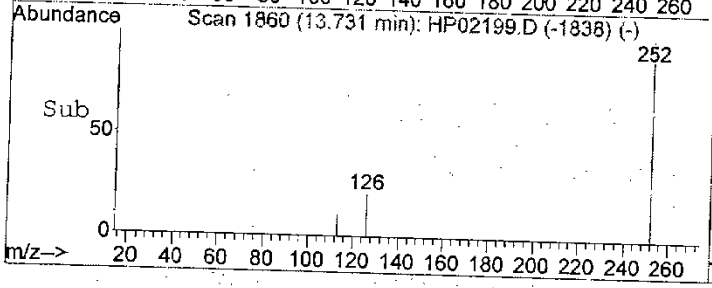
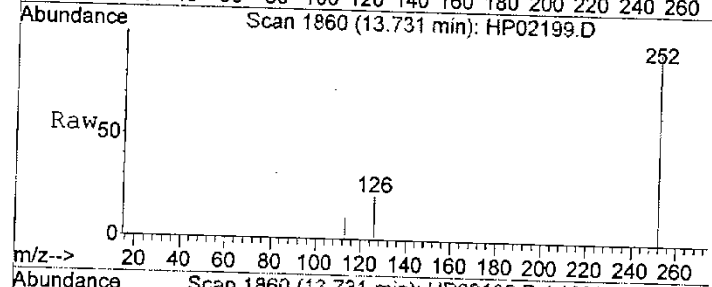
Tgt Ion: 252 Resp: 1237706
 Ion Ratio Lower Upper
 252 100
 126 20.0 0.0 50.2





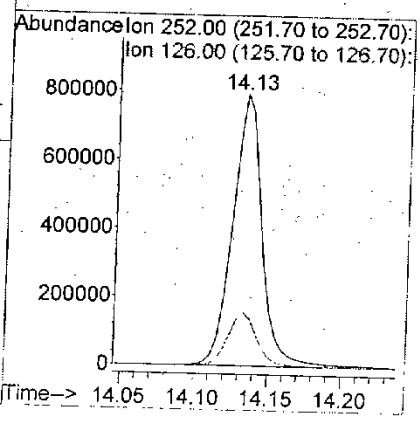
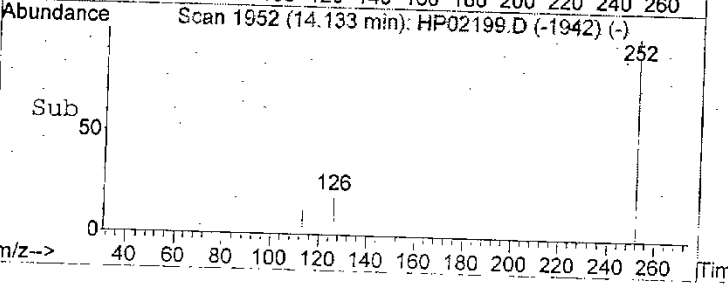
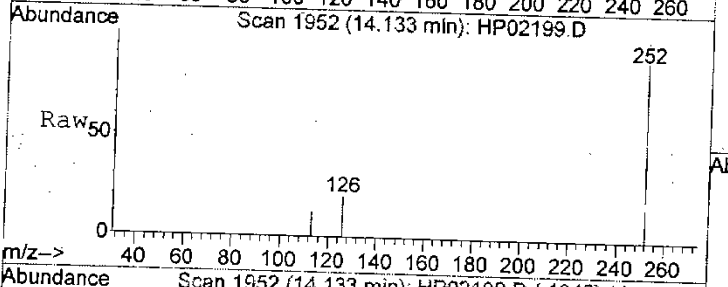
#24
 Benzofluoranthenes
 Concen: 2433.55 ug/L
 RT: 13.73 min Scan# 1860
 Delta R.T. -0.00 min
 Lab File: HP02199.D
 Acq: 25 Aug 2006 12:27

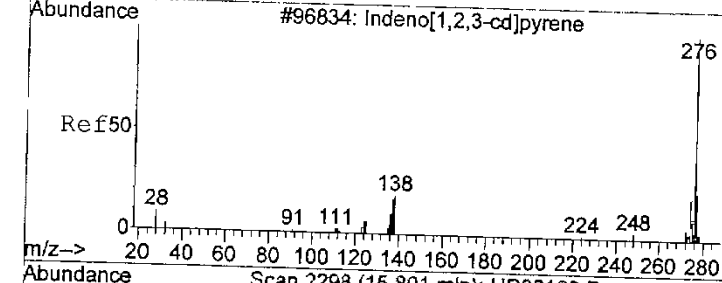
Tgt Ion: 252 Resp: 2460272
 Ion Ratio Lower Upper
 252 100
 126 21.3 0.0 54.1



#25
 Benzo(a)pyrene
 Concen: 1290.52 ug/L
 RT: 14.13 min Scan# 1952
 Delta R.T. -0.00 min
 Lab File: HP02199.D
 Acq: 25 Aug 2006 12:27

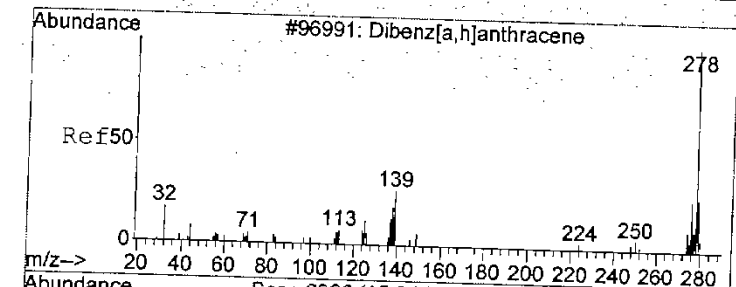
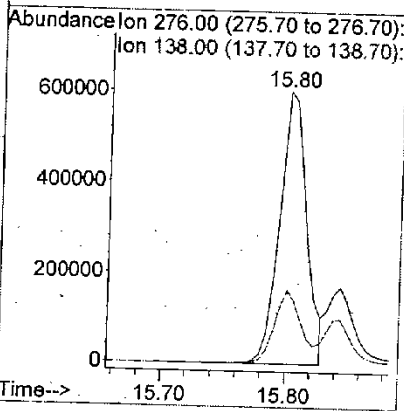
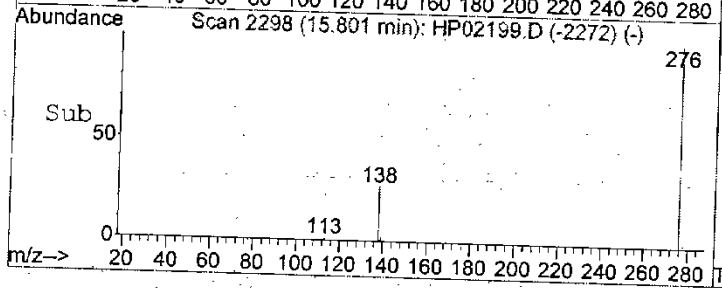
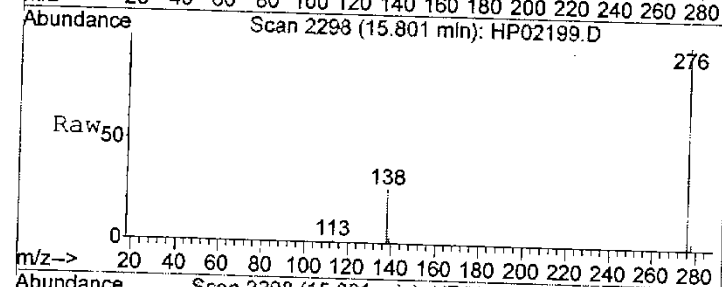
Tgt Ion: 252 Resp: 1090795
 Ion Ratio Lower Upper
 252 100
 126 19.9 0.0 49.1





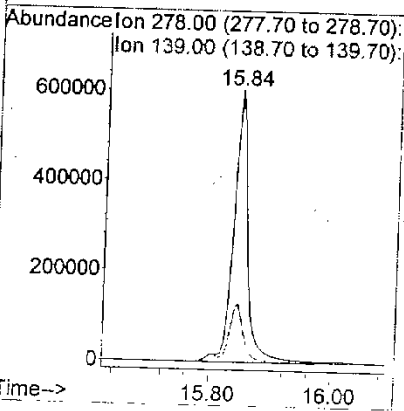
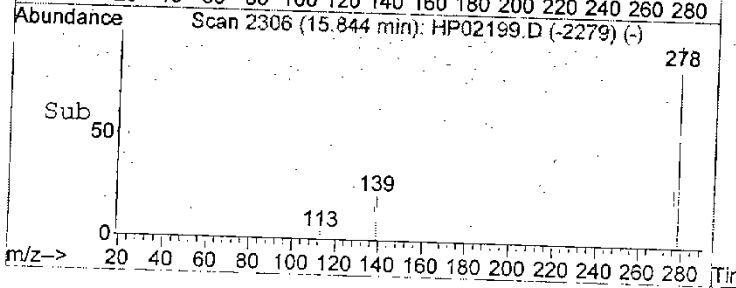
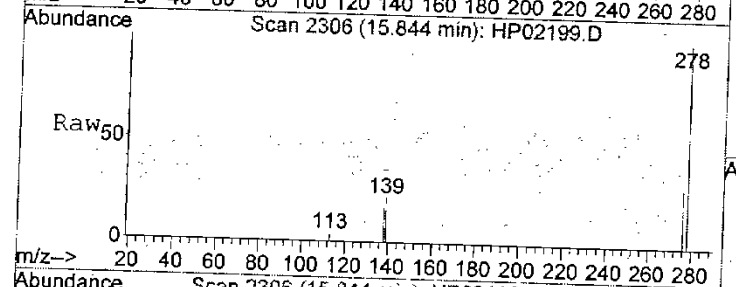
#26
 Indeno(1,2,3-cd)pyrene
 Concen: 1197.77 ug/L
 RT: 15.80 min Scan# 2298
 Delta R.T. -0.01 min
 Lab File: HP02199.D
 Acq: 25 Aug 2006 12:27

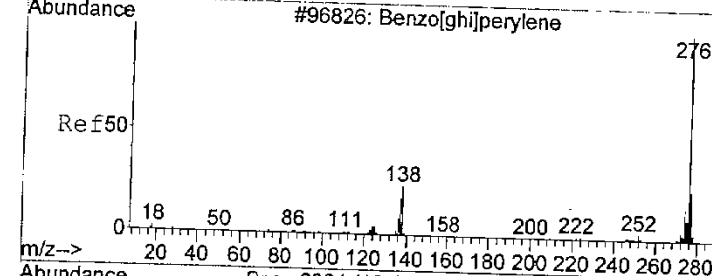
Tgt Ion: 276 Resp: 913333
 Ion Ratio Lower Upper
 276 100
 138 25.5 0.0 56.1



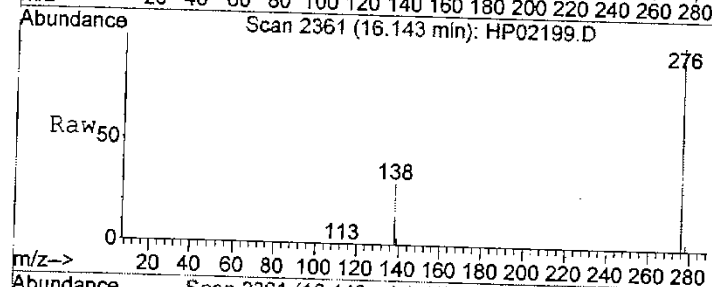
#27
 Dibenz(a,h)anthracene
 Concen: 1164.71 ug/L
 RT: 15.84 min Scan# 2306
 Delta R.T. -0.01 min
 Lab File: HP02199.D
 Acq: 25 Aug 2006 12:27

Tgt Ion: 278 Resp: 989705
 Ion Ratio Lower Upper
 278 100
 139 21.5 0.0 50.1

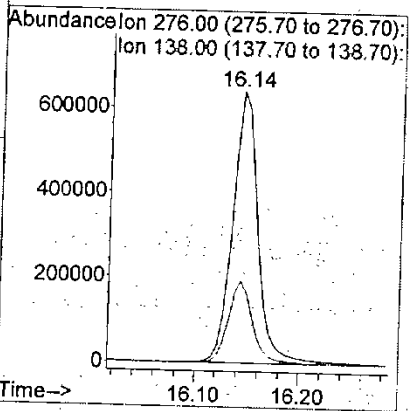
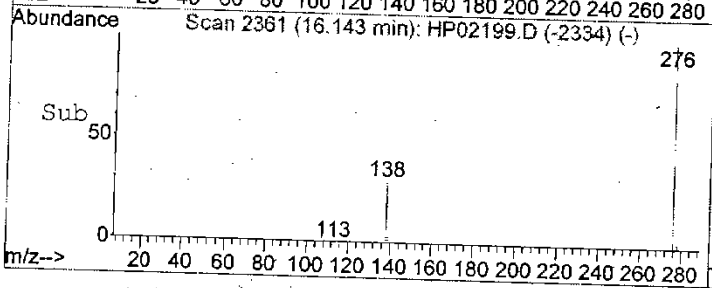




#28
 Benzo(g,h,i)perylene
 Concen: 1039.16 ug/L
 RT: 16.14 min Scan# 2361
 Delta R.T. -0.01 min
 Lab File: HP02199.D
 Acq: 25 Aug 2006 12:27



Tgt Ion: 276 Resp: 1051371
 Ion Ratio Lower Upper
 276 100
 138 29.8 0.0 58.9



Data File : Y:\DATA\082506_A\HP02200.D
 Acq On : 25 Aug 2006 12:54
 Sample : LCSD 580-10210/3-A
 Misc : BT=S02082506
 MS Integration Params: RTEINT.P
 Quant Time: Aug 25 14:00:48 2006

Vial: 6
 Operator: RBF
 Inst : SEA023
 Multiplr: 1.00

Quant Results File: PAH080106.RES

Quant Method : Y:\METHODS\PAH080106.M (RTE Integrator)
 Title : USEPA Method SIM 8270 Calibration
 Last Update : Fri Aug 25 11:11:24 2006
 Response via : Initial Calibration
 DataAcq Meth : PAHSIM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4 (I)	5.69	152	30258	100.00	ug/L	0.00
2) Naphthalene-d8 (I)	6.80	136	108555	100.00	ug/L	0.00
7) Acenaphthene-d10 (I)	8.26	162	57290	100.00	ug/L	0.00
12) Phenanthrene-d10 (I)	9.59	188	86392	100.00	ug/L	0.00
18) Chrysene-d12 (I)	12.49	240	77601	100.00	ug/L	0.00
21) Perylene-d12 (I)	14.21	264	60481	100.00	ug/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene - d5 (S)	6.18	82	425807	1190.63	ug/L	0.00
8) 2 - Fluorobiphenyl (S)	7.70	172	805706	1038.85	ug/L	0.00
17) Terphenyl - d14 (S)	11.30	244	650833	981.39	ug/L	0.00

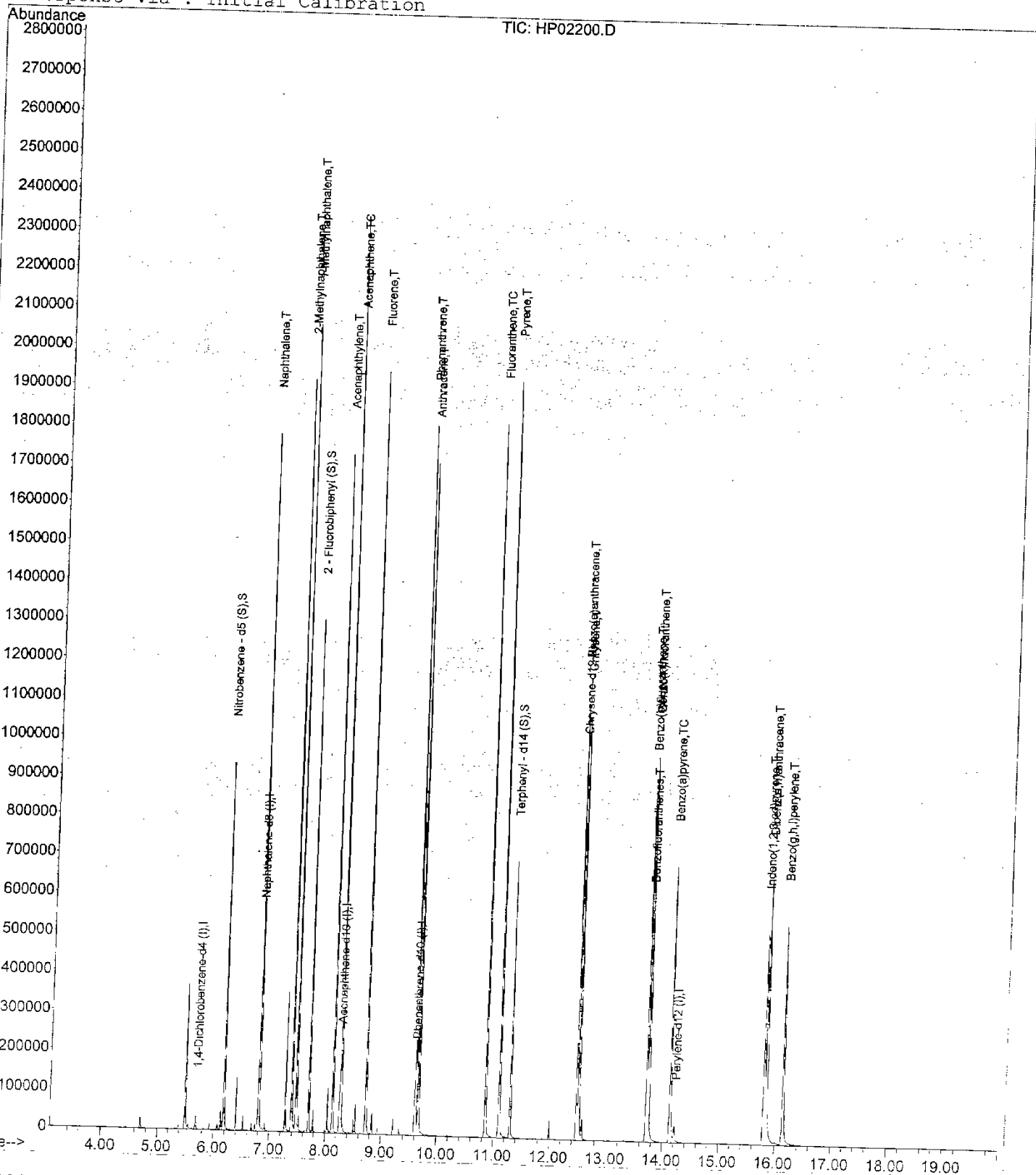
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	6.81	128	1222844	1081.96	ug/L	98
5) 2-Methylnaphthalene	7.39	141	660959	1083.66	ug/L	98
6) 1-Methylnaphthalene	7.47	141	690040	1096.30	ug/L	99
9) Acenaphthylene	8.13	152	1199270	1151.46	ug/L	100
10) Acenaphthene	8.28	153	772969	1072.46	ug/L	96
11) Fluorene	8.73	166	850036	1143.83	ug/L	99
13) Phenanthrene	9.62	178	1153462	1069.50	ug/L	100
14) Anthracene	9.66	178	1145624	1064.33	ug/L	97
15) Fluoranthene	10.85	202	1132242	1025.78	ug/L	97
16) Pyrene	11.10	202	1231957	1010.04	ug/L	87
19) Benzo(a)anthracene	12.48	228	950793	1167.81	ug/L	100
20) Chrysene	12.52	228	979805	1115.86	ug/L	99
22) Benzo(b)fluoranthene	13.71	252	845404	1191.01	ug/L	99
23) Benzo(k)fluoranthene	13.75	252	893835	1149.02	ug/L	99
24) Benzofluoranthenes	13.73	252	1754184	2340.30	ug/L	92
25) Benzo(a)pyrene	14.13	252	744840	1191.70	ug/L	98
26) Indeno(1,2,3-cd)pyrene	15.80	276	604195	1072.50	ug/L	99
27) Dibenz(a,h)anthracene	15.84	278	662211	1049.44	ug/L	97
28) Benzo(g,h,i)perylene	16.14	276	709419	944.22	ug/L	98

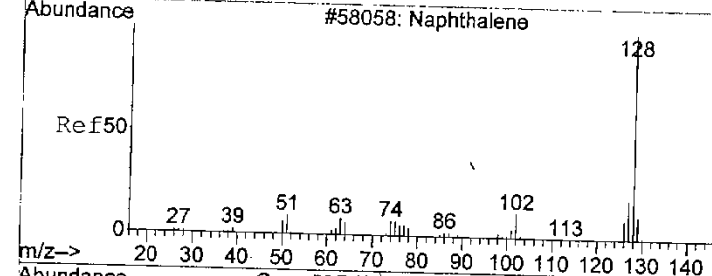
Data File : Y:\DATA\082506 A\HP02200.D
Acq On : 25 Aug 2006 12:54
Sample : LCSD 580-10210/3-A
Misc : BT=S02082506
MS Integration Params: RTEINT.P
Quant Time: Aug 25 14:00 2006

Vial: 6
Operator: RBF
Inst : SEA023
Multiplr: 1.00

Quant Results File: PAH080106.RES

Method : Y:\METHODS\PAH080106.M (RTE Integrator)
Title : USEPA Method SIM 8270 Calibration
Last Update : Fri Aug 25 11:11:24 2006
Response via : Initial Calibration

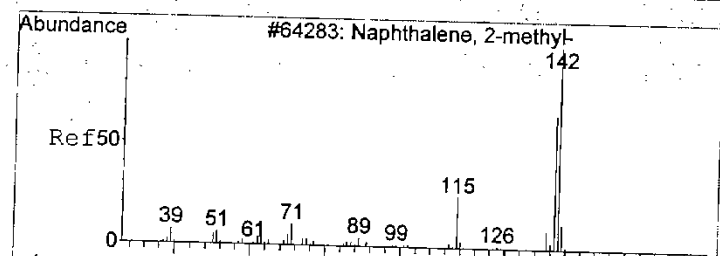
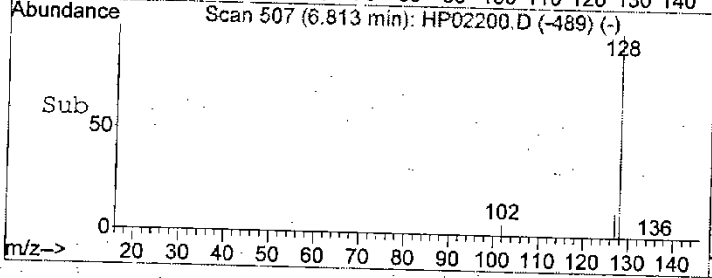
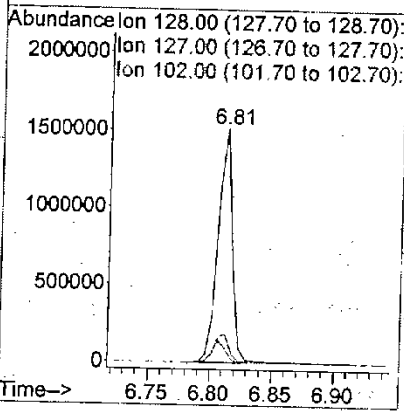
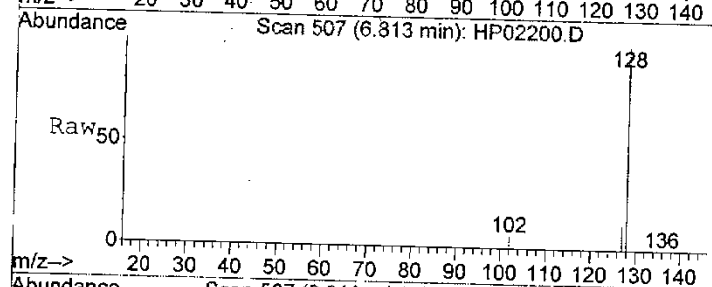




#4
 Naphthalene
 Concen: 1081.96 ug/L
 RT: 6.81 min Scan# 507
 Delta R.T. -0.00 min
 Lab File: HP02200.D
 Acq: 25 Aug 2006 12:54

Tgt Ion: 128 Resp: 1222844

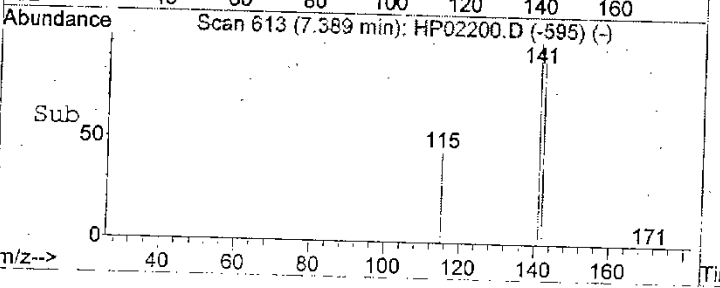
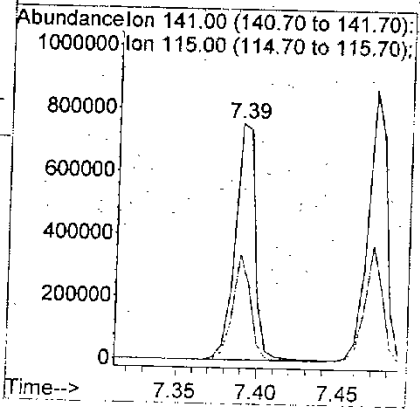
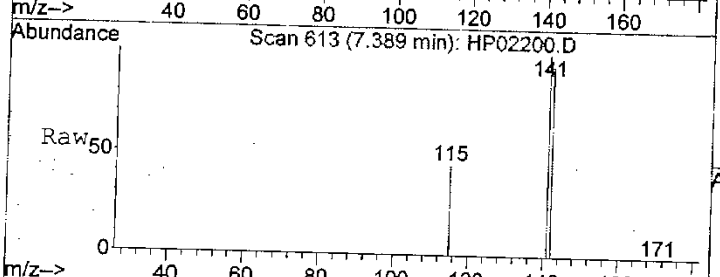
Ion	Ratio	Lower	Upper
128	100		
127	11.8	0.0	42.3
102	6.0	0.0	36.6

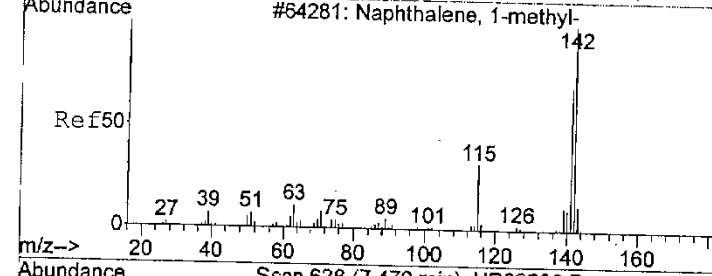


#5
 2-Methylnaphthalene
 Concen: 1083.66 ug/L
 RT: 7.39 min Scan# 613
 Delta R.T. -0.00 min
 Lab File: HP02200.D
 Acq: 25 Aug 2006 12:54

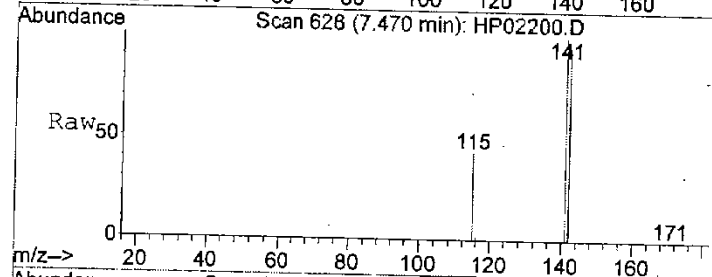
Tgt Ion: 141 Resp: 660959

Ion	Ratio	Lower	Upper
141	100		
115	44.7	13.5	73.5

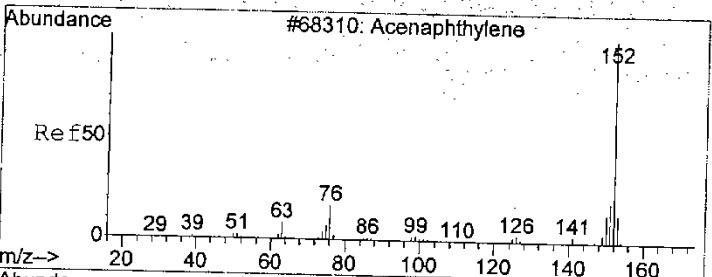
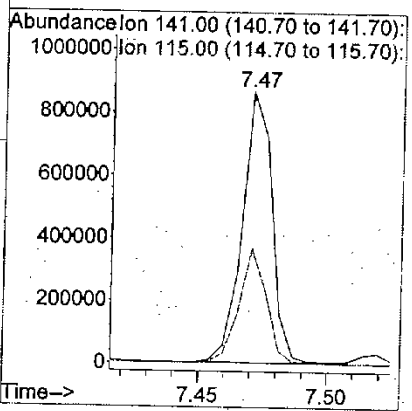
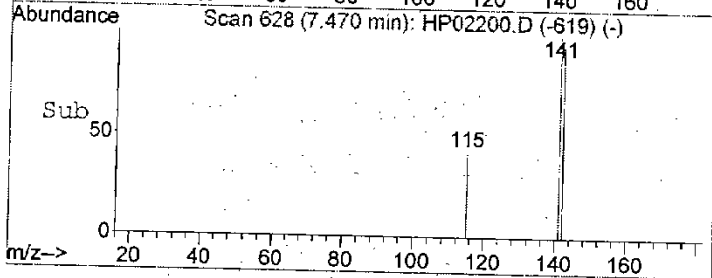




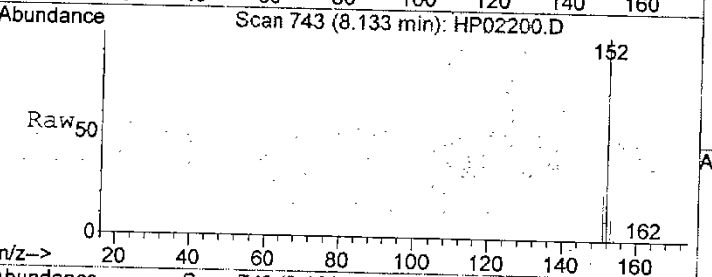
#6
 1-Methylnaphthalene
 Concen: 1096.30 ug/L
 RT: 7.47 min Scan# 628
 Delta R.T. -0.00 min
 Lab File: HP02200.D
 Acq: 25 Aug 2006 12:54



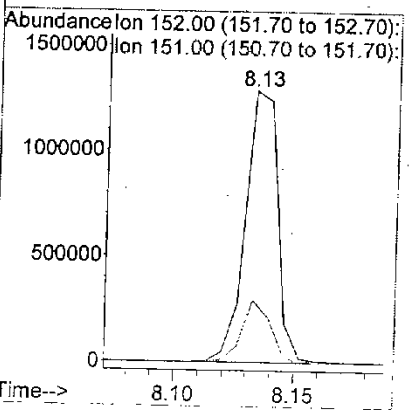
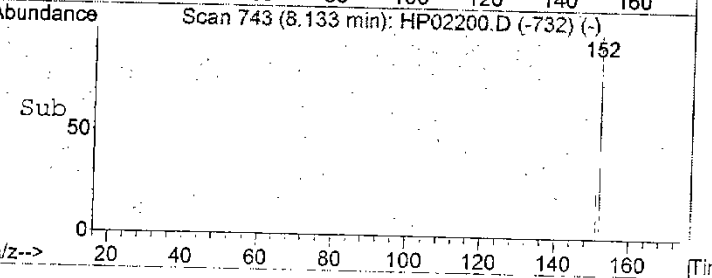
Tgt Ion:141 Resp: 690040
 Ion Ratio Lower Upper
 141 100
 115 42.8 12.2 72.2

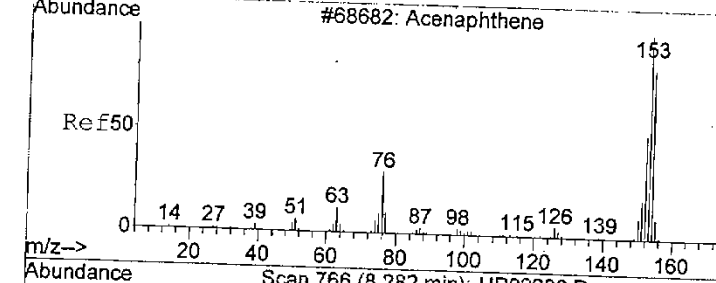


#9
 Acenaphthylene
 Concen: 1151.46 ug/L
 RT: 8.13 min Scan# 743
 Delta R.T. -0.00 min
 Lab File: HP02200.D
 Acq: 25 Aug 2006 12:54



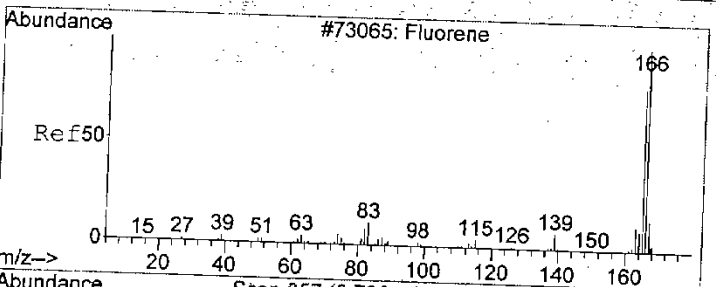
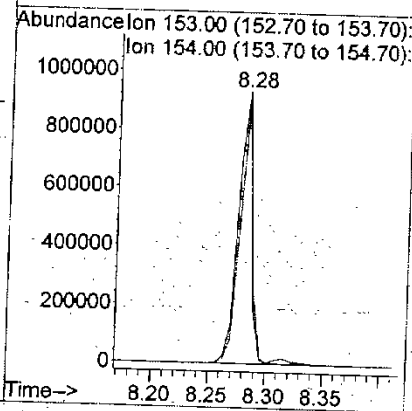
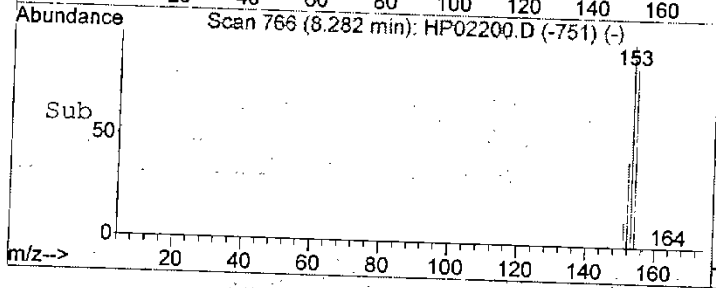
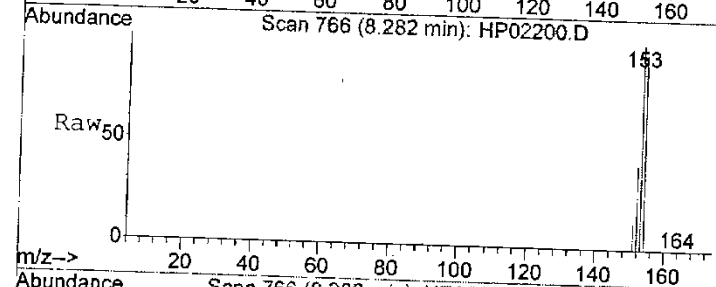
Tgt Ion:152 Resp: 1199270
 Ion Ratio Lower Upper
 152 100
 151 22.9 0.0 52.8





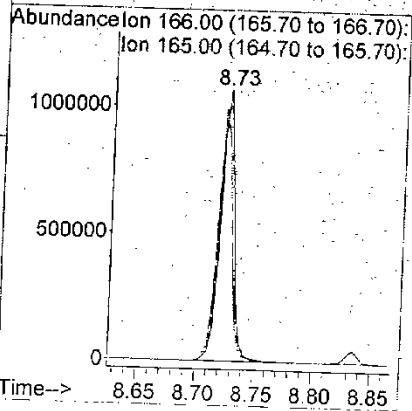
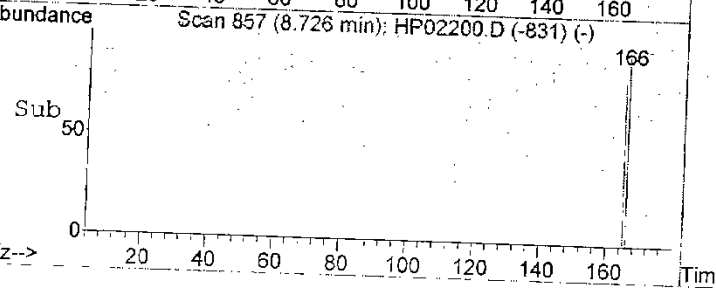
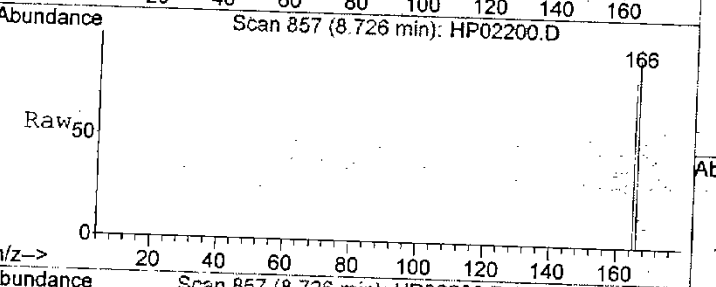
#10
 Acenaphthene
 Concen: 1072.46 ug/L
 RT: 8.28 min Scan# 766
 Delta R.T. -0.00 min
 Lab File: HP02200.D
 Acq: 25 Aug 2006 12:54

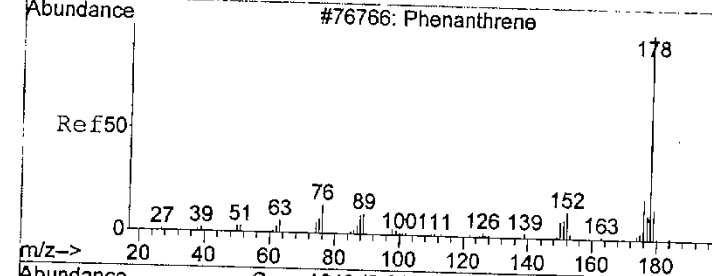
Tgt Ion: 153 Resp: 772969
 Ion Ratio Lower Upper
 153 100
 154 96.4 70.7 130.7



#11
 Fluorene
 Concen: 1143.83 ug/L
 RT: 8.73 min Scan# 857
 Delta R.T. -0.00 min
 Lab File: HP02200.D
 Acq: 25 Aug 2006 12:54

Tgt Ion: 166 Resp: 850036
 Ion Ratio Lower Upper
 166 100
 165 82.3 53.2 113.2

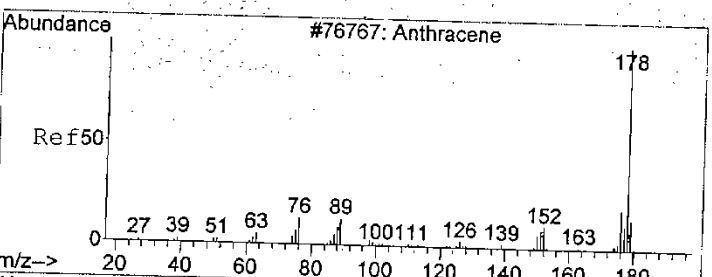
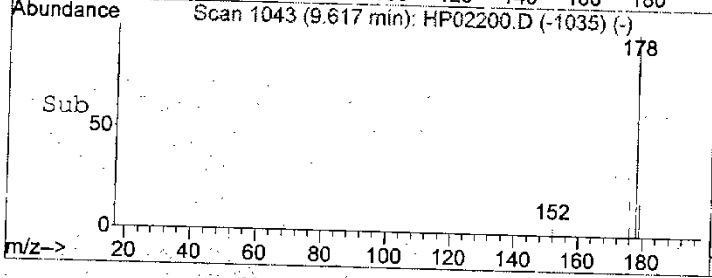
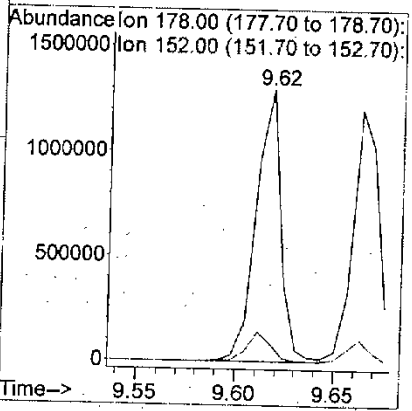
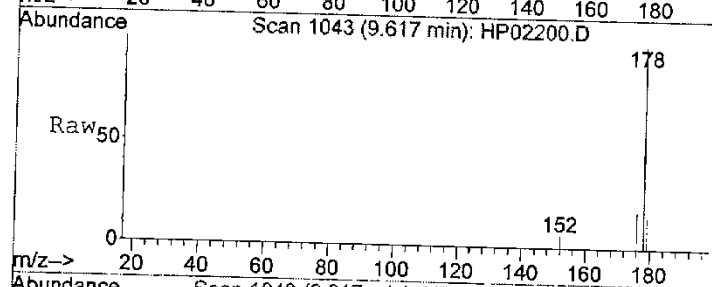




#13
 Phenanthrene
 Concen: 1069.50 ug/L
 RT: 9.62 min Scan# 1043
 Delta R.T. -0.01 min
 Lab File: HP02200.D
 Acq: 25 Aug 2006 12:54

Tgt Ion: 178 Resp: 1153462

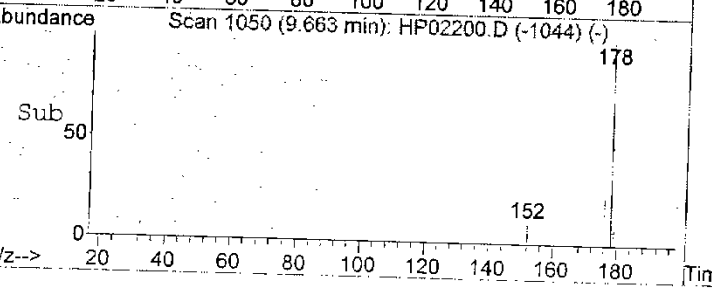
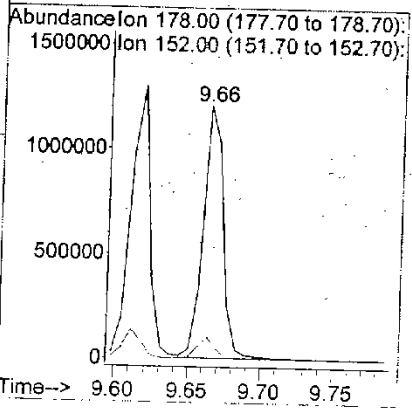
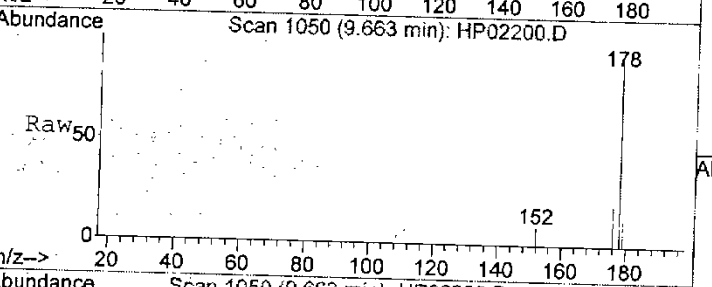
Ion	Ratio	Lower	Upper
178	100		
152	6.2	0.0	36.2

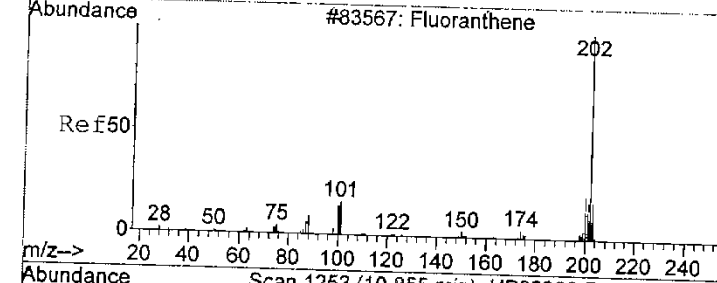


#14
 Anthracene
 Concen: 1064.33 ug/L
 RT: 9.66 min Scan# 1050
 Delta R.T. -0.01 min
 Lab File: HP02200.D
 Acq: 25 Aug 2006 12:54

Tgt Ion: 178 Resp: 1145624

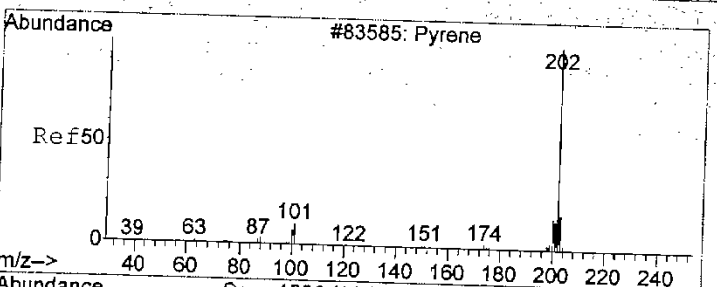
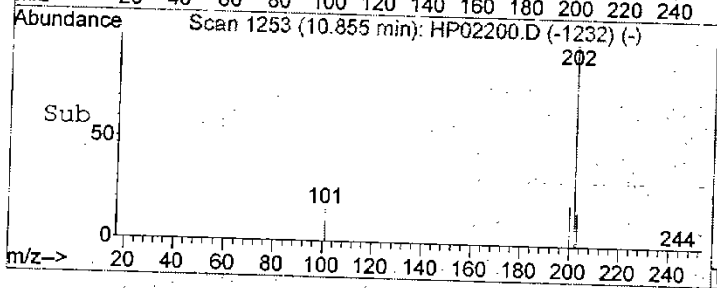
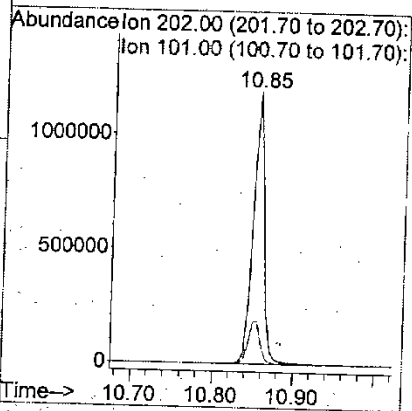
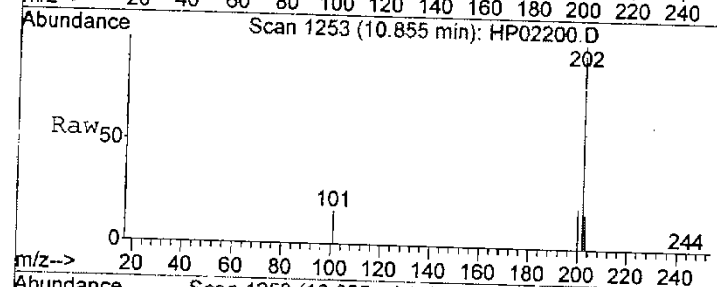
Ion	Ratio	Lower	Upper
178	100		
152	8.6	0.0	39.9





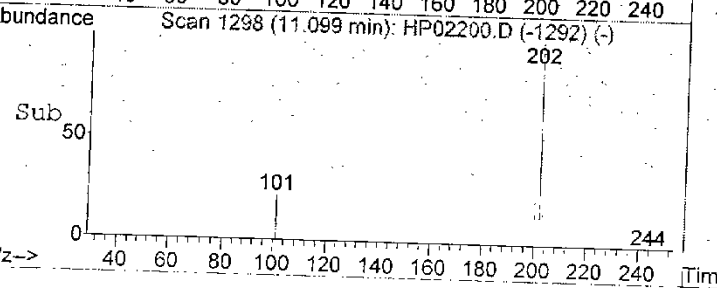
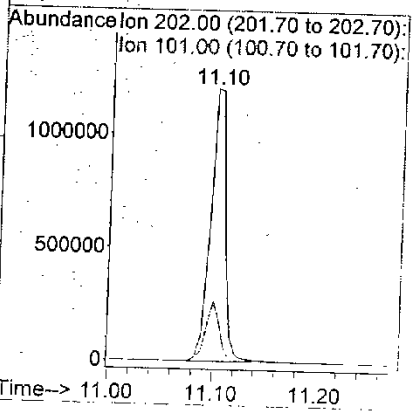
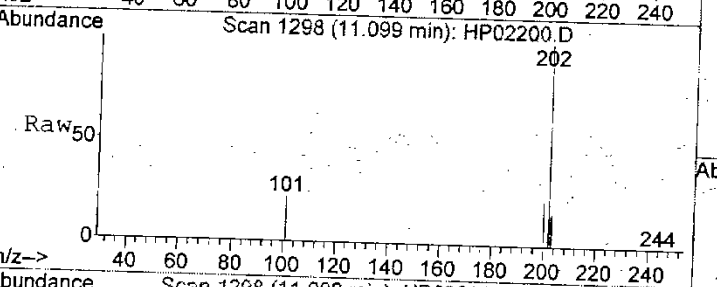
#15
 Fluoranthene
 Concen: 1025.78 ug/L
 RT: 10.85 min Scan# 1253
 Delta R.T. -0.01 min
 Lab File: HP02200.D
 Acq: 25 Aug 2006 12:54

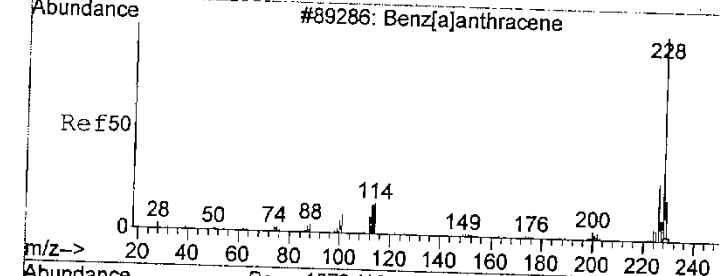
Tgt Ion: 202 Resp: 1132242
 Ion Ratio Lower Upper
 202 100
 101 15.7 0.0 44.3



#16
 Pyrene
 Concen: 1010.04 ug/L
 RT: 11.10 min Scan# 1298
 Delta R.T. -0.01 min
 Lab File: HP02200.D
 Acq: 25 Aug 2006 12:54

Tgt Ion: 202 Resp: 1231957
 Ion Ratio Lower Upper
 202 100
 101 22.2 0.0 46.4

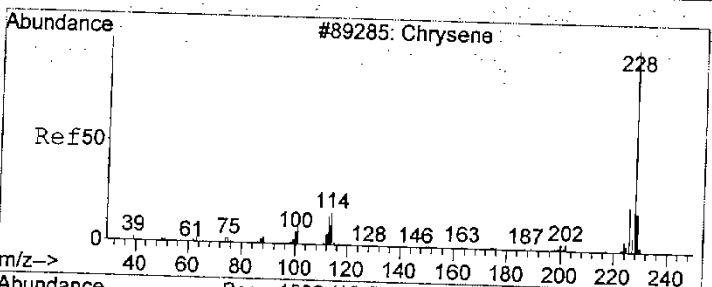
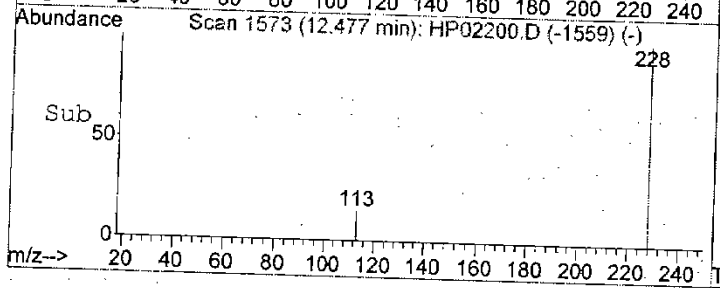
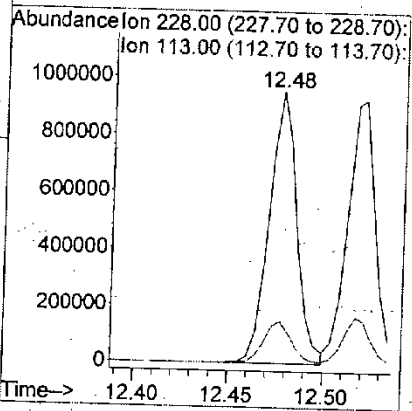
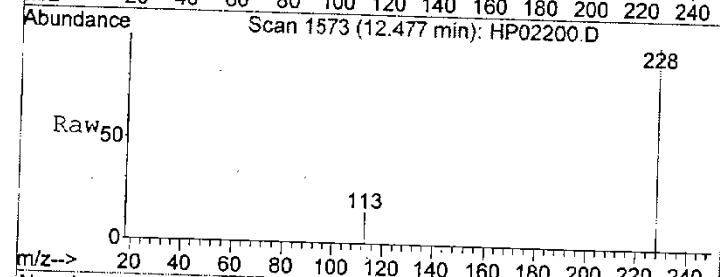




#19
 Benzo(a)anthracene
 Concen: 1167.81 ug/L
 RT: 12.48 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: HP02200.D
 Acq: 25 Aug 2006 12:54

Tgt Ion: 228 Resp: 950793

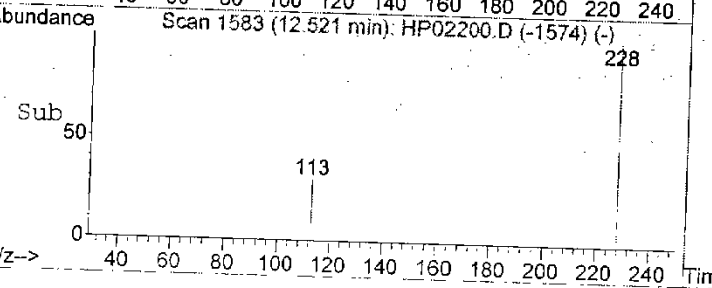
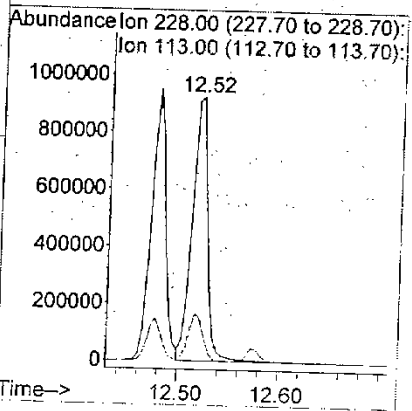
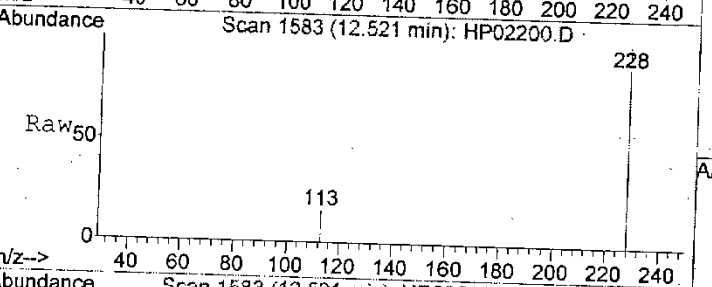
Ion	Ratio	Lower	Upper
228	100		
113	15.3	0.0	45.2

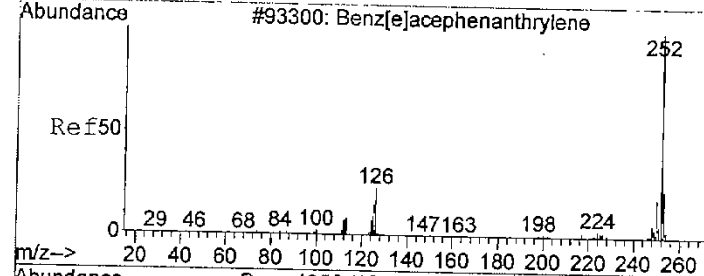


#20
 Chrysene
 Concen: 1115.86 ug/L
 RT: 12.52 min Scan# 1583
 Delta R.T. -0.00 min
 Lab File: HP02200.D
 Acq: 25 Aug 2006 12:54

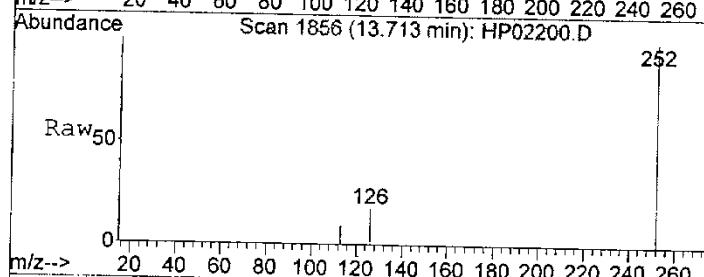
Tgt Ion: 228 Resp: 979805

Ion	Ratio	Lower	Upper
228	100		
113	16.2	0.0	45.9

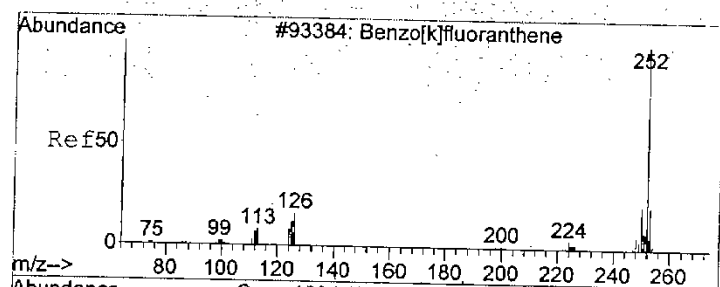
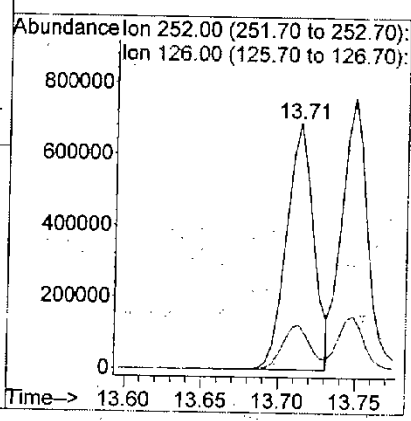
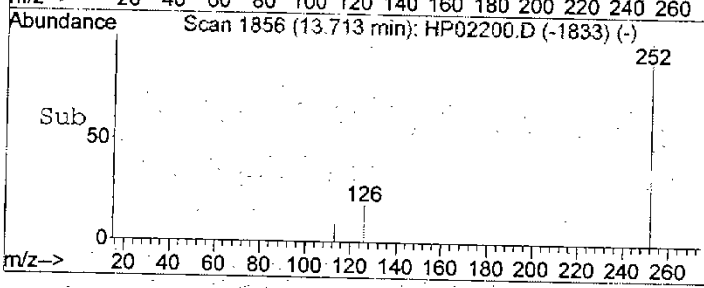




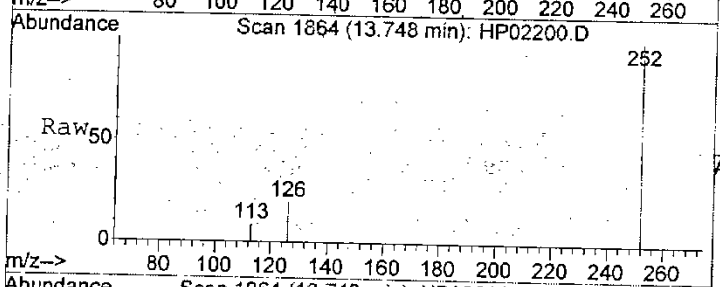
#22
 Benzo(b) fluoranthene
 Concen: 1191.01 ug/L
 RT: 13.71 min Scan# 1856
 Delta R.T. -0.00 min
 Lab File: HP02200.D
 Acq: 25 Aug 2006 12:54



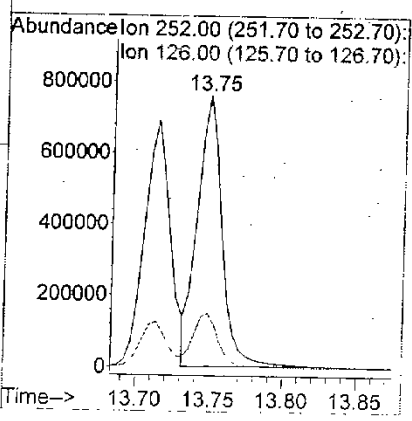
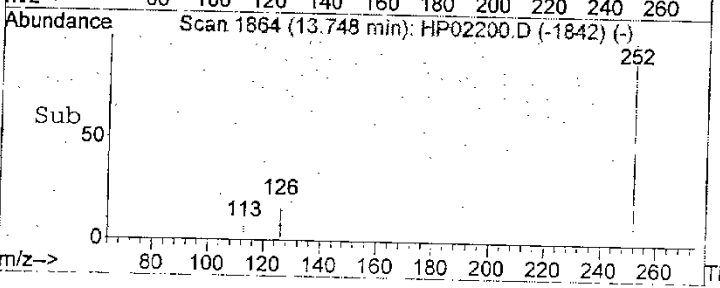
Tgt Ion: 252 Resp: 845404
 Ion Ratio Lower Upper
 252 100
 126 18.0 0.0 38.4

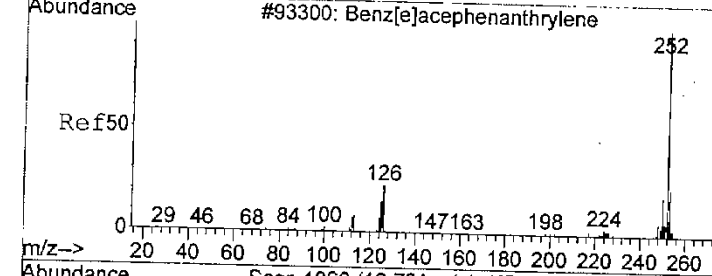


#23
 Benzo(k) fluoranthene
 Concen: 1149.02 ug/L
 RT: 13.75 min Scan# 1864
 Delta R.T. -0.00 min
 Lab File: HP02200.D
 Acq: 25 Aug 2006 12:54



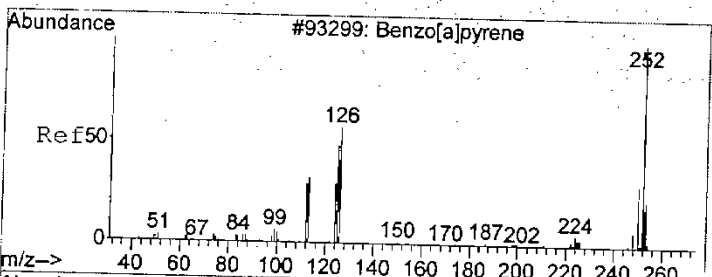
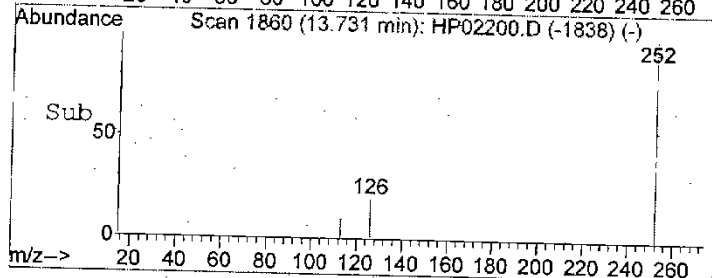
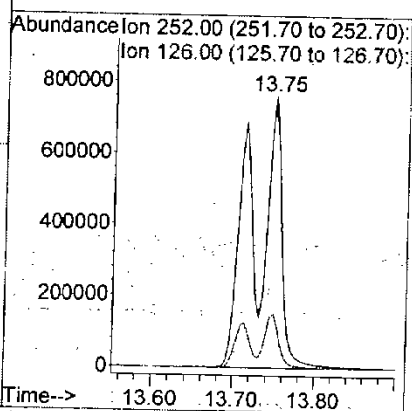
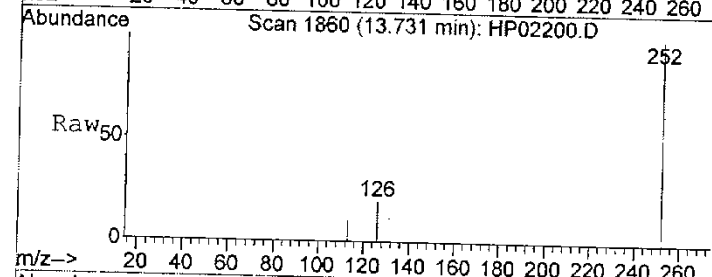
Tgt Ion: 252 Resp: 893835
 Ion Ratio Lower Upper
 252 100
 126 19.8 0.0 50.2





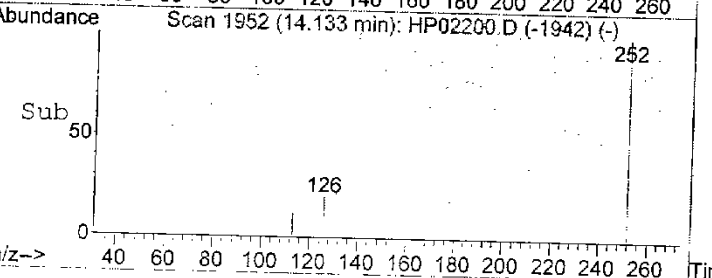
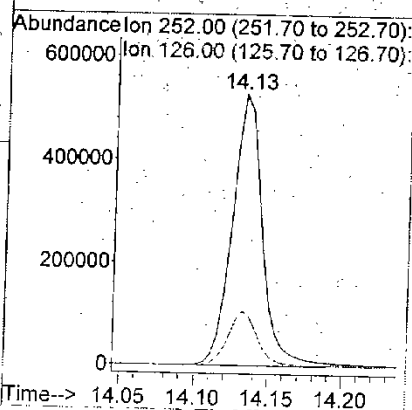
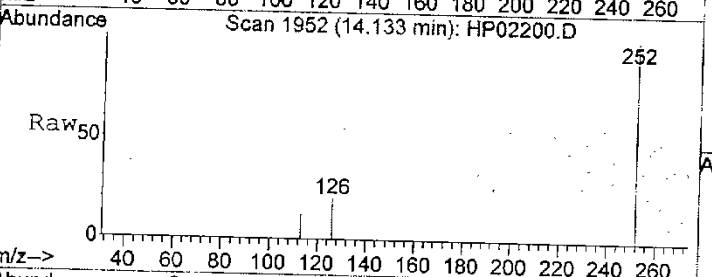
#24
 Benzofluoranthenes
 Concen: 2340.30 ug/L
 RT: 13.73 min Scan# 1860
 Delta R.T. -0.00 min
 Lab File: HP02200.D
 Acq: 25 Aug 2006 12:54

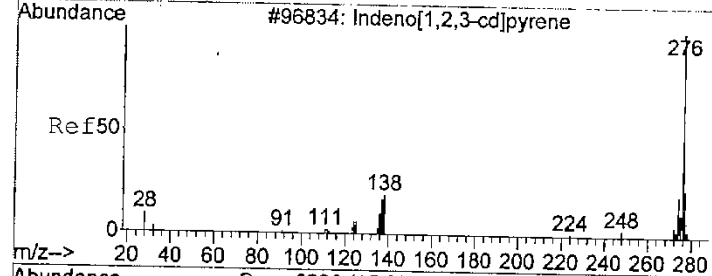
Tgt Ion: 252 Resp: 1754184
 Ion Ratio Lower Upper
 252 100
 126 20.1 0.0 54.1



#25
 Benzo(a)pyrene
 Concen: 1191.70 ug/L
 RT: 14.13 min Scan# 1952
 Delta R.T. -0.00 min
 Lab File: HP02200.D
 Acq: 25 Aug 2006 12:54

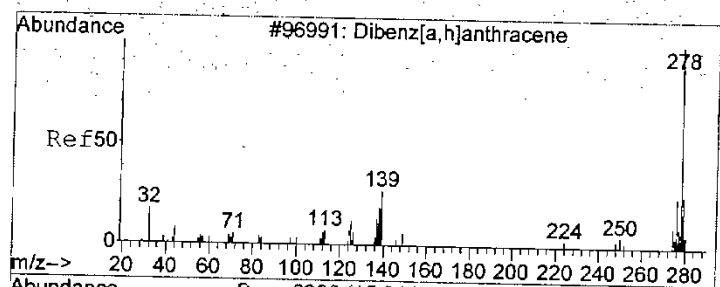
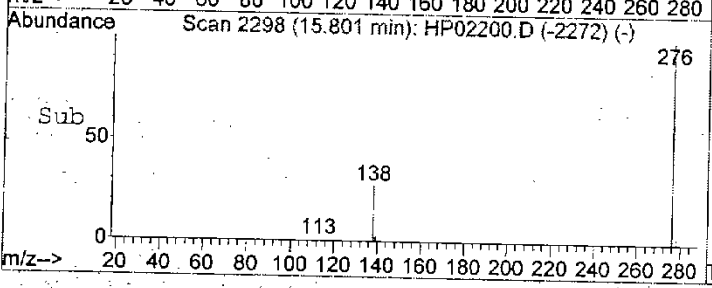
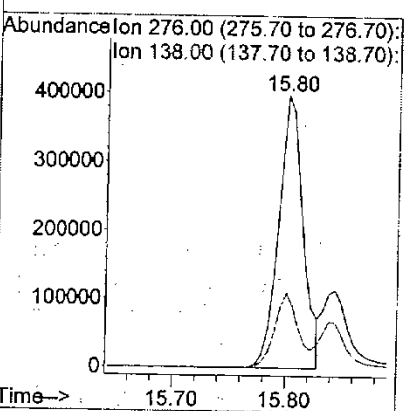
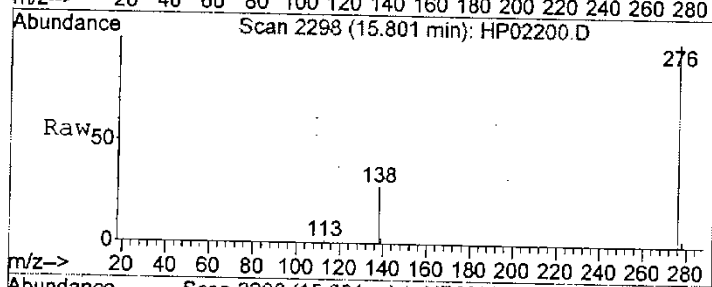
Tgt Ion: 252 Resp: 744840
 Ion Ratio Lower Upper
 252 100
 126 20.1 0.0 49.1





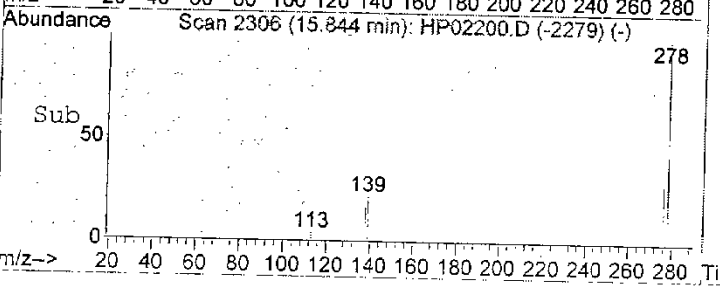
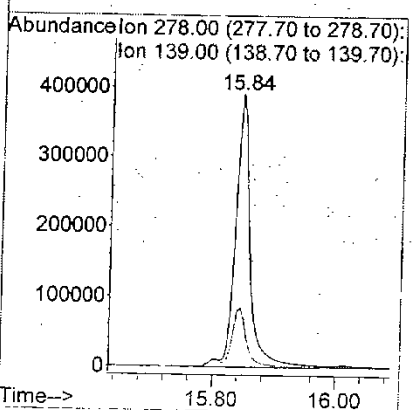
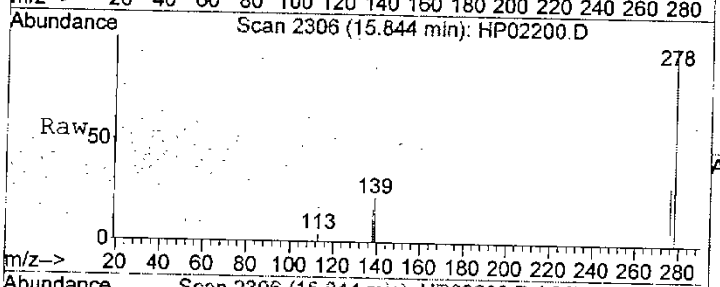
#26
 Indeno(1,2,3-cd)pyrene
 Concen: 1072.50 ug/L
 RT: 15.80 min Scan# 2298
 Delta R.T. -0.01 min
 Lab File: HP02200.D
 Acq: 25 Aug 2006 12:54

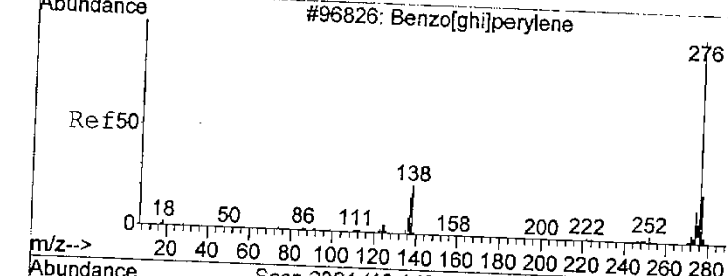
Tgt Ion: 276 Resp: 604195
 Ion Ratio Lower Upper
 276 100
 138 25.8 0.0 56.1



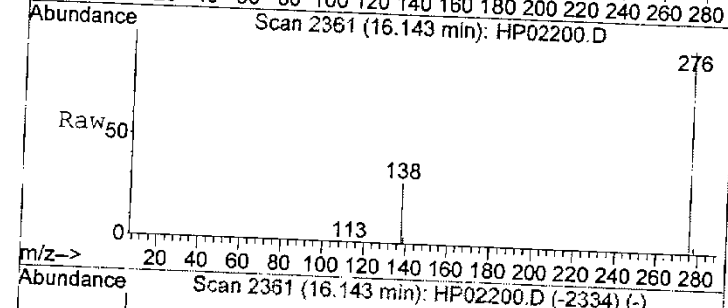
#27
 Dibenz(a,h)anthracene
 Concen: 1049.44 ug/L
 RT: 15.84 min Scan# 2306
 Delta R.T. -0.01 min
 Lab File: HP02200.D
 Acq: 25 Aug 2006 12:54

Tgt Ion: 278 Resp: 662211
 Ion Ratio Lower Upper
 278 100
 139 21.7 0.0 50.1

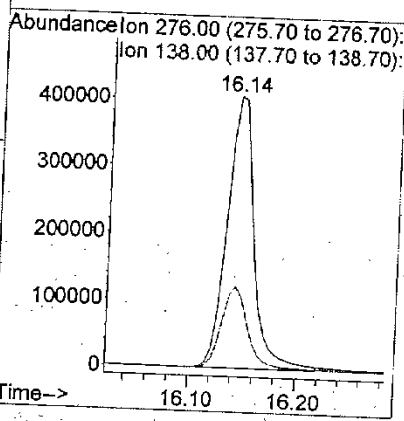
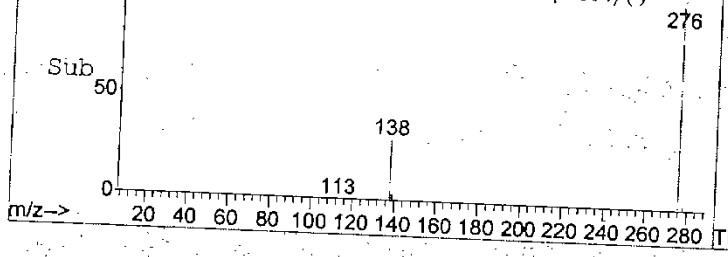




#28
 Benzo(g,h,i)perylene
 Concen: 944.22 ug/L
 RT: 16.14 min Scan# 2361
 Delta R.T. -0.01 min
 Lab File: HP02200.D
 Acq: 25 Aug 2006 12:54



Tgt Ion: 276 Resp: 709419
 Ion Ratio Lower Upper
 276 100
 138 30.1 0.0 58.9



LABORATORY WORKSHEETS

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-10210





Analyst: Brenner, Shiran

Batch Open: 8/25/2006 8:14:51AM

Method Code: 580-3510C-580

Batch End:

Separatory Funnel Liquid-Liquid Extraction

Input Sample Lab ID (Analytical Method)	SDG	GrossWt TareWt	InitAmnt FinAmnt	PHs			Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
				Rcvd	Adj1	Adj2					
1 MB~580-10210/1 N/A	N/A		1000 mL	7	2		N/A	N/A	N/A		
			10 mL								
2 LCS~580-10210/2 N/A	N/A		1000 mL	7	2		N/A	N/A	N/A		
			10 mL								
3 LCSD~580-10210/3 N/A	N/A		1000 mL	7	2		N/A	N/A	N/A		
			10 mL								
4 580-3377-G-1 (8270C_SIM)	N/A		975 mL	7	2		8/31/06	8_Days	4		
			10 mL								

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Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-10210

Analyst: Brenner, Shiran

Batch Open: 8/25/2006 8:14:51AM

Method Code: 580-3510C-580

Batch End:

Batch Notes

Acid used for pH adjustment H2SO4-LOT052424

Base used for pH adjustment N/A

Batch Comment

Person's name who did the
concentration
First End time

Vendor lot number

Na2SO4 Lot Numer

Oven, Bath or Block Temperature 1 60C

Prep Solvent Volume Used

Person's name who did the prep SB

Person's name who witnessed
reagent drop

Solvent CH2CL2-LOT13472

SOP Number

First Start time

Comments

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-10210

Analyst: Brenner, Shiran

Batch Open: 8/25/2006 8:14:51AM

Method Code: 580-3510C-580

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 580-10210/1	8270surr_00017	1 mL	10 mL		
LCS 580-10210/2	8270surr_00017	1 mL	10 mL		
LCS 580-10210/2	w8270_msfl_00015	1 mL	10 mL		
LCSD 580-10210/3	8270surr_00017	1 mL	10 mL		
LCSD 580-10210/3	w8270_msfl_00015	1 mL	10 mL		
580-3377-G-1	8270surr_00017	1 mL	10 mL		

Other Reagents:

Reagent

Amount/Units

Lot#:

GASOLINE RANGE ORGANICS DATA PACKAGE

SAMPLE DATA

Data File : I:\2\DATA\08312006\CS166920.D Vial: 38
 Acq On : 31 Aug 2006 10:53 pm Operator: jc
 Sample : 580-3377-D-1 Inst : Instrumen
 Misc : water BT=Sea003083106f1 Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 05 10:17:50 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Thu Aug 31 09:04:54 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX.M

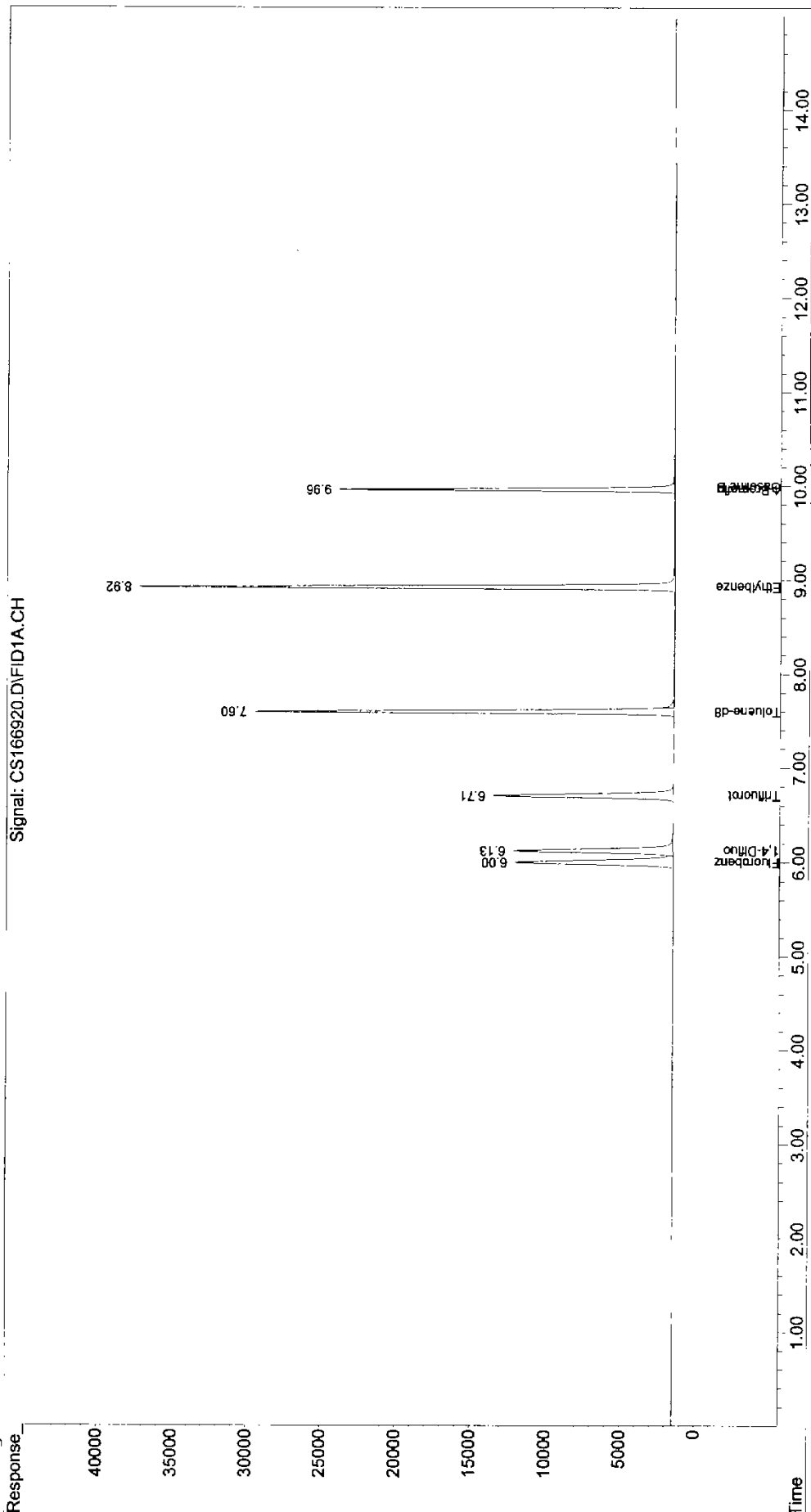
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 1,4-Difluorobenzene (I)	6.13	304217	67.673 ug/L
Spiked Amount 100.000		Recovery =	67.67%
2) S Fluorobenzene (Surr)	6.00	339380	100.855 ug/L
Spiked Amount 100.000		Recovery =	100.86%
3) S Trifluorotoluene (Surr)	6.71	333307	103.554 ug/L
Spiked Amount 100.000 Range 69 - 120		Recovery =	103.55%
4) S Toluene-d8 (Surr)	7.60	622879	110.743 ug/L
Spiked Amount 100.000		Recovery =	110.74%
5) S Ethylbenzene-d10 (Surr)	8.93	746009	108.674 ug/L
Spiked Amount 100.000		Recovery =	108.67%
6) S 4-Bromofluorobenzene (Surr)	9.96	418155	101.072 ug/L
Spiked Amount 100.000 Range 70 - 120		Recovery =	101.07%
Target Compounds			
7) H Gasoline By NWTPH-G	10.00	95026	8.159 ug/L
8) H C6-C10	7.00	83573	<MDL ug/L
9) H C6-C12	8.00	115567	<MDL ug/L

Data File : I:\2\DATA\08312006\CS166920.D Vial: 38
Acq On : 31 Aug 2006 10:53 pm Operator: jc
Sample : 580-3377-D-1 Inst : Instrument
Misc : water BT=Sea003083106f1 Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 5 10:17 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
Title : GRO by 8015 Modified 08-17-2006
Last Update : Thu Aug 31 09:04:54 2006
Response via : Multiple Level Calibration
DataAcq Meth : GBTEX.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : I:\2\DATA\08312006\CS166919.D Vial: 37
 Acq On : 31 Aug 2006 10:31 pm Operator: jc
 Sample : 580-3377-A-2 Inst : Instrumen
 Misc : water BT=Sea003083106f1 Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 05 10:17:42 2006 Quant Results File: GAS_08172006.RES

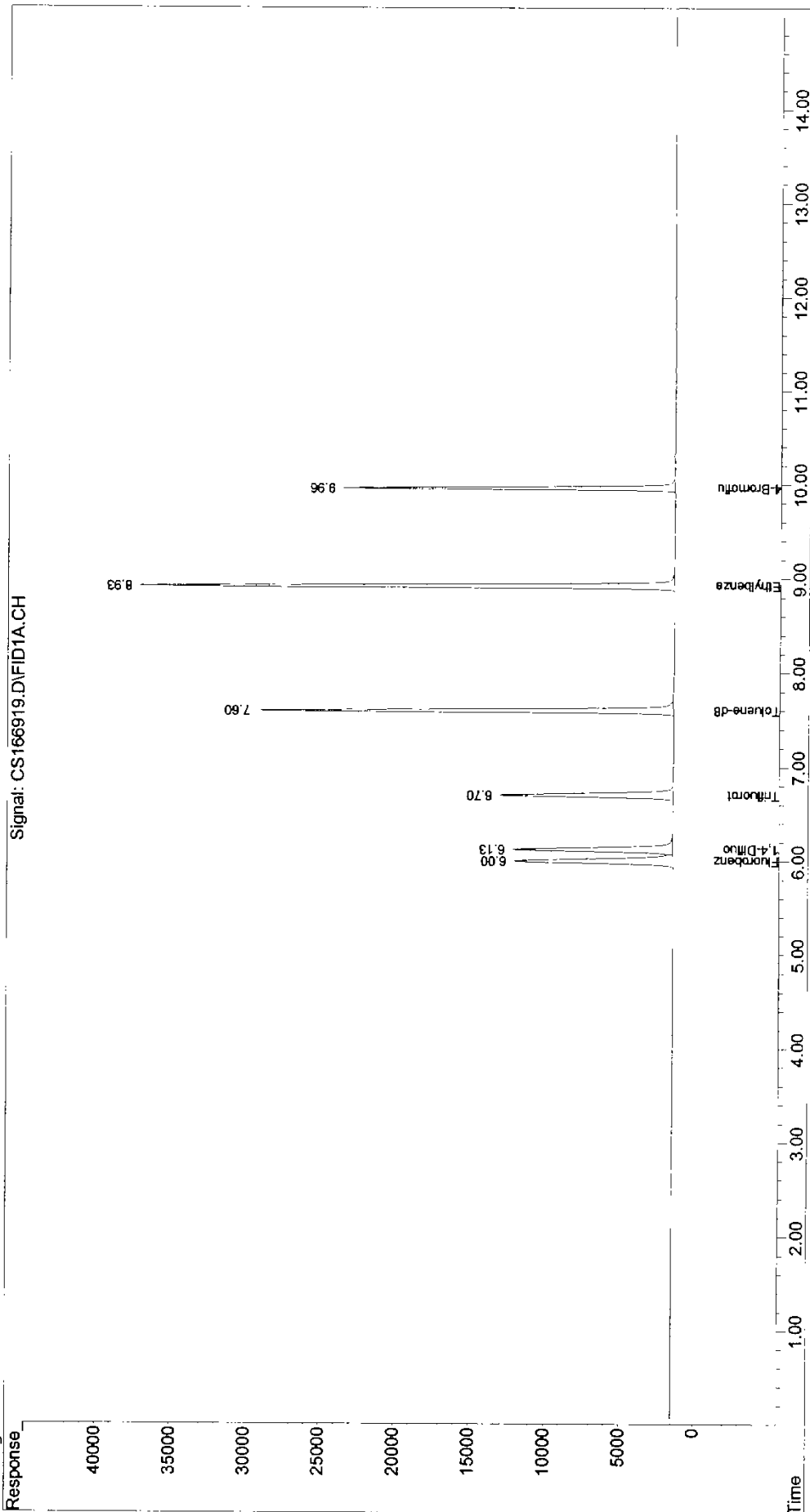
Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Thu Aug 31 09:04:54 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 1,4-Difluorobenzene (I)	6.13	304776	67.797 ug/L
Spiked Amount 100.000		Recovery =	67.80%
2) S Fluorobenzene (Surr)	6.00	339029	100.775 ug/L
Spiked Amount 100.000		Recovery =	100.78%
3) S Trifluorotoluene (Surr)	6.71	318367	100.032 ug/L
Spiked Amount 100.000 Range 69 - 120		Recovery =	100.03%
4) S Toluene-d8 (Surr)	7.60	624651	111.058 ug/L
Spiked Amount 100.000		Recovery =	111.06%
5) S Ethylbenzene-d10 (Surr)	8.93	748618	109.054 ug/L
Spiked Amount 100.000		Recovery =	109.05%
6) S 4-Bromofluorobenzene (Surr)	9.96	418709	101.175 ug/L
Spiked Amount 100.000 Range 70 - 120		Recovery =	101.18%
Target Compounds			
7) H Gasoline By NWT PH-G	10.00	75420	<MDL ug/L

Data File : I:\2\DATA\08312006\CS166919.D
Acq On : 31 Aug 2006 10:31 pm Vial: 37
Sample : 580-3377-A-2 Operator: jc
Misc : water Bf=Sea003083106f1 .Inst : Instrumen
IntFile : events.e Multiplr: 1.00
Quant Time: Sep 5 10:17 2006 Quant Results File: GAS_08172006.RES
Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
Title : GRO by 8015 Modified 08-17-2006
Last Update : Thu Aug 31 09:04:54 2006
Response via : Multiple Level Calibration
DataAcq Meth : GBTEX.M

Volume Inj. :
Signal Phase :
Signal Info :



INITIAL CALIBRATION

Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Fri Aug 18 09:45:46 2006
 Response via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
2	50	50.00	0.00	I:\2\DATA\08172006\CS166719.D
3	100	100.00	0.00	I:\2\DATA\08172006\CS166720.D
4	250	250.00	0.00	I:\2\DATA\08172006\CS166721.D
5	500	500.00	0.00	I:\2\DATA\08172006\CS166722.D
6	1100	1100.00	0.00	I:\2\DATA\08172006\CS166723.D
7	5000	5000.00	0.00	I:\2\DATA\08172006\CS166724.D
8	10k	10000.00	0.00	I:\2\DATA\08172006\CS166725.D
9	15k	15000.00	0.00	I:\2\DATA\08172006\CS166726.D

#	ID	Update Time	Quant Time	Acquisition Time
2	50	Aug 18 09:33 2006	Aug 18 09:32 2006	
3	100	Aug 18 09:33 2006	Aug 18 09:32 2006	
4	250	Aug 18 09:33 2006	Aug 18 09:32 2006	
5	500	Aug 18 09:33 2006	Aug 18 09:32 2006	
6	1100	Aug 18 09:33 2006	Aug 18 09:32 2006	
7	5000	Aug 18 09:33 2006	Aug 18 09:32 2006	
8	10k	Aug 18 09:33 2006	Aug 18 09:32 2006	
9	15k	Aug 18 09:33 2006	Aug 18 09:33 2006	

GAS_08172006.M

Fri Aug 18 12:16:10 2006

Response Factor Report Instrumen

Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Fri Aug 18 09:45:46 2006

Calibration Files

= 50 =CS166719.D 100 =CS166720.D
 250 =CS166721.D 500 =CS166722.D 1100 =CS166723.D

Compound	50	100	250	500	1100	Avg	%RSD
1) S 1,4-Difluorobenz	2.823	2.866	2.906	2.959	3.092	4.244	4.495 E3 50.56
2) S Fluorobenzene (S	3.046	3.094	3.090	3.118	3.236	3.940	3.418 E3 15.65
3) S Trifluorotoluene	2.856	2.899	2.866	2.950	3.098	3.755	3.245 E3 17.24
4) S Toluene-d8 (Surr	5.744	5.715	5.580	5.620	5.424	5.594	5.625 E3 1.93
5) S Ethylbenzene-d10	6.732	6.674	6.901	6.839	6.824	6.943	6.865 E3 2.23
6) S 4-Bromofluoroben	4.035	3.973	3.909	3.896	3.932	4.749	4.296 E3 14.91
7) H Gasoline By NWTP	4.673	3.918	3.473	3.197	3.186	3.242	3.540 E3 13.52
8) H C6-C10	4.217	3.548	2.807	2.607	2.622	2.550	2.925 E3 19.58
9) H C6-C12	5.600	5.145	4.205	3.910	3.909	3.889	4.301 E3 14.55
10) H CA 8015B	5.075	4.332	3.532	3.286	3.287	3.238	3.639 E3 17.51

Sequence Log

Directory : x:\2\DATA\08172006

#	Filename	Sample Name	Date/Time
1	cs166715.d	rt std	08/17/06 15:37
2	cs166719.d	gro ical 50	08/17/06 17:07
3	cs166720.d	gro ical 100	08/17/06 17:29
4	cs166721.d	gro ical 250	08/17/06 17:52
5	cs166722.d	gro ical 500	08/17/06 18:14
6	cs166723.d	gro ical 1100	08/17/06 18:37
7	cs166724.d	gro ical 5000	08/17/06 18:59
8	cs166725.d	gro ical 10000	08/17/06 19:22
9	cs166726.d	gro ical 15000	08/17/06 19:44
10	cs166727.d	gro ical 25000	08/17/06 20:07
11	cs166729.d	gro icv 1100	08/17/06 20:52

Sequence Log

Directory : x:\2\DATA\08182006

#	Filename	Sample Name	Date/Time
1	cs166732.d	rt std	08/18/06 10:26
2	cs166733.d	gro icv 1100	08/18/06 10:49

Data File : I:\2\DATA\08172006\CS166715.D Vial: 17
 Acq On : 8-17-2006 03:37:29 PM Operator: jc
 Sample : rt std Inst : Instrumen
 Misc : 1369-33-18 Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 18 10:42:05 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Fri Aug 18 09:45:46 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX.M
 Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 1,4-Difluorobenzene (I)	6.14	278718	62.001 ug/L
Spiked Amount 100.000		Recovery =	62.00%
2) S Fluorobenzene (Surr)	6.02	300985	91.801 ug/L
Spiked Amount 100.000		Recovery =	91.80%
3) S Trifluorotoluene (Surr)	6.71	267126	87.369 ug/L
Spiked Amount 100.000 Range 69 - 120		Recovery =	87.37%
4) S Toluene-d8 (Surr)	7.61	584823	103.977 ug/L
Spiked Amount 100.000		Recovery =	103.98%
5) S Ethylbenzene-d10 (Surr)	8.93	734985	107.068 ug/L
Spiked Amount 100.000		Recovery =	107.07%
6) S 4-Bromofluorobenzene (Surr)	9.97	423696	102.098 ug/L
Spiked Amount 100.000 Range 70 - 120		Recovery =	102.10%
Target Compounds			
7) H Gasoline By NWTPH-G	10.00	1711011	504.389 ug/L
8) H C6-C10	7.00	1077316	385.344 ug/L
9) H C6-C12	8.00	1685638	406.189 ug/L
10) H CA 8015B	7.00	1373600	393.653 ug/L

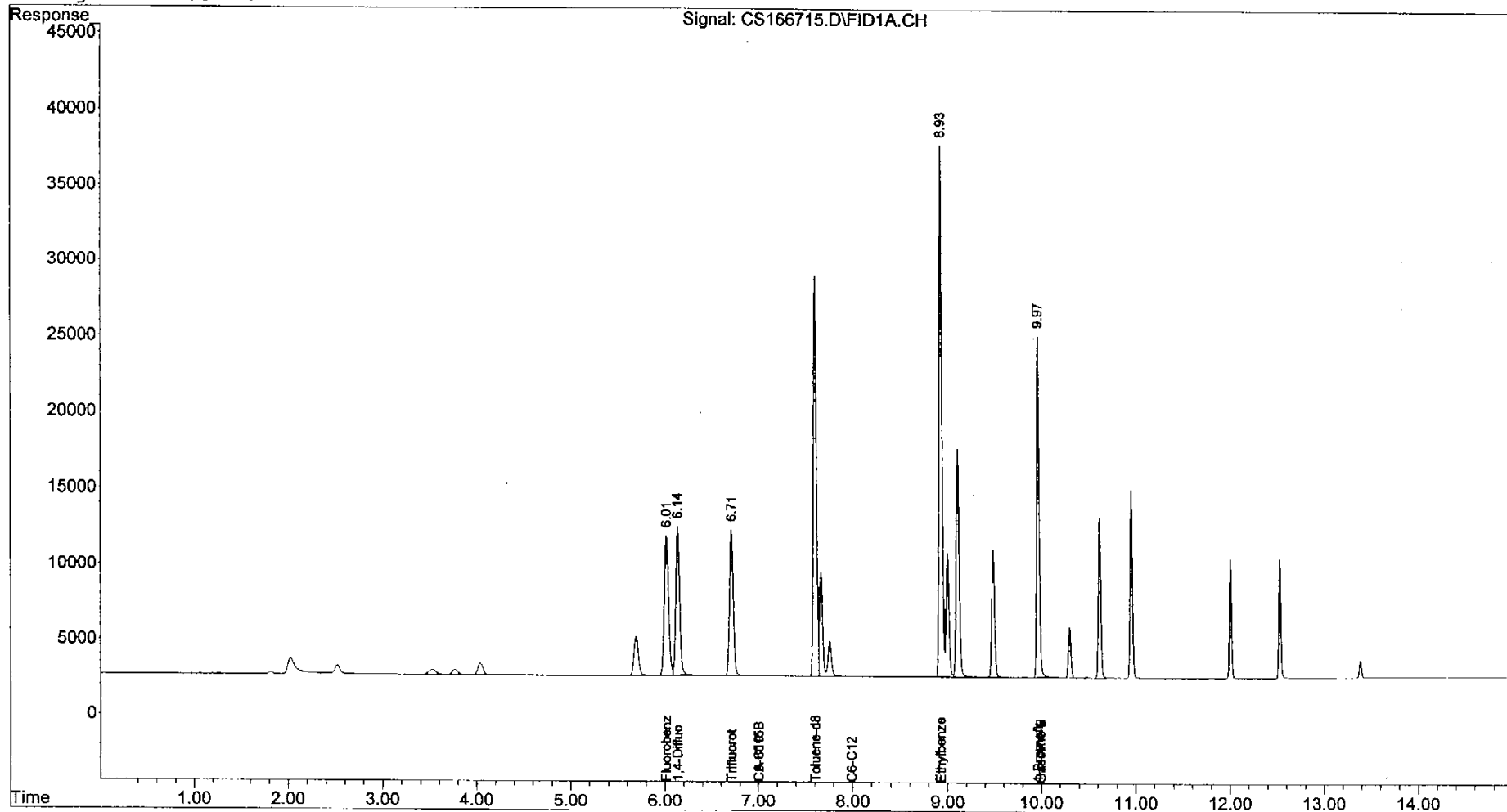
Data File : I:\2\DATA\08172006\CS166715.D
 Acq On : 8-17-2006 03:37:29 PM
 Sample : rt.std
 Misc : 1369-33-18
 IntFile : events.e

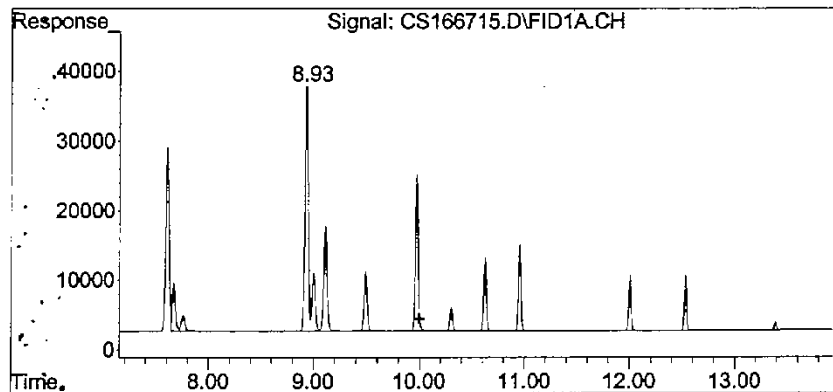
Vial: 17
 Operator: jc
 Inst : Instrument
 Multiplr: 1.00

Quant Time: Aug 18 10:42 2006 Quant Results File: GAS_08172006.RES

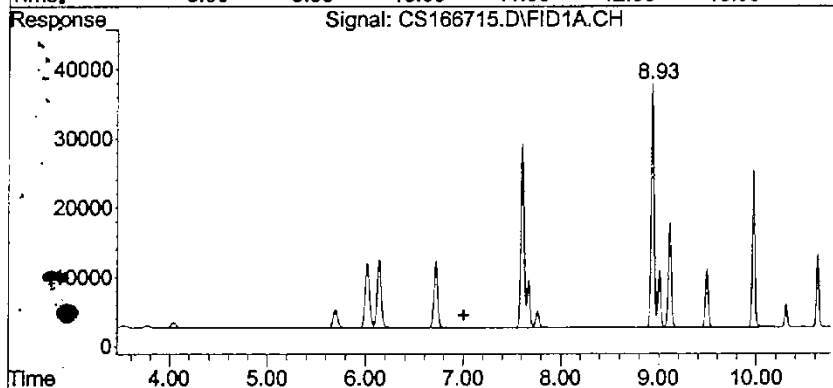
Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Fri Aug 18 09:45:46 2006
 Response via : Multiple Level Calibration
 DataAcq Meth : GBTEX.M

Volume Inj. :
 Signal Phase :
 Signal Info :

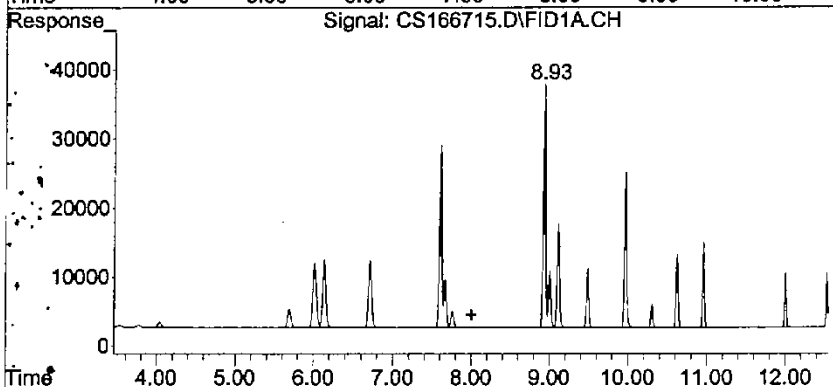




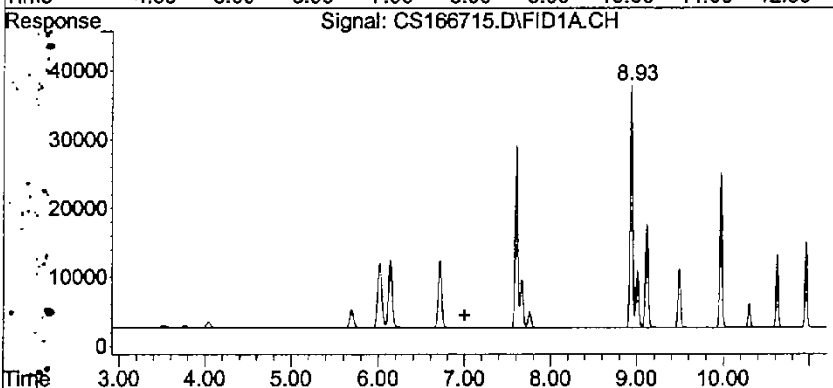
#7 Gasoline By NWTPH-G
 R.T.: 10.000 min
 Delta R.T.: 0.000 min
 Response: 1711011
 Conc: 504.39 ug/L m



#8 C6-C10
 R.T.: 7.000 min
 Delta R.T.: 0.000 min
 Response: 1077316
 Conc: 385.34 ug/L m



#9 C6-C12
 R.T.: 8.000 min
 Delta R.T.: 0.000 min
 Response: 1685638
 Conc: 406.19 ug/L m



#10 CA 8015B
 R.T.: 7.000 min
 Delta R.T.: 0.000 min
 Response: 1373600
 Conc: 393.65 ug/L m

Data File : I:\2\DATA\08182006\CS166732.D Vial: 2
 Acq On : 18 Aug 2006 10:26 am Operator: jc
 Sample : rt std Inst : Instrumen
 Misc : 1369-34-23 Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 18 10:42:22 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Fri Aug 18 09:45:46 2006
 Response via : Initial Calibration
 *DataAcq Meth : GBTEX.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S 1,4-Difluorobenzene (I)	6.14	283593	63.085 ug/L
Spiked Amount 100.000		Recovery =	63.09%
2) S Fluorobenzene (Surr)	6.01	299802	91.514 ug/L
Spiked Amount 100.000		Recovery =	91.51%
3) S Trifluorotoluene (Surr)	6.71	271429	88.471 ug/L
Spiked Amount 100.000 Range 69 - 120		Recovery =	88.47%
4) S Toluene-d8 (Surr)	7.60	585356	104.072 ug/L
Spiked Amount 100.000		Recovery =	104.07%
5) S Ethylbenzene-d10 (Surr)	8.93	738914	107.641 ug/L
Spiked Amount 100.000		Recovery =	107.64%
6) S 4-Bromofluorobenzene (Surr)	9.97	426504	102.616 ug/L
Spiked Amount 100.000 Range 70 - 120		Recovery =	102.62%
Target Compounds			
7) H Gasoline By NWTPH-G	10.00	1822763	538.705 ug/L
8) H C6-C10	7.00	1146397	412.127 ug/L
9) H C6-C12	8.00	1876448	454.747 ug/L
10) H CA 8015B	7.00	1481000	426.668 ug/L

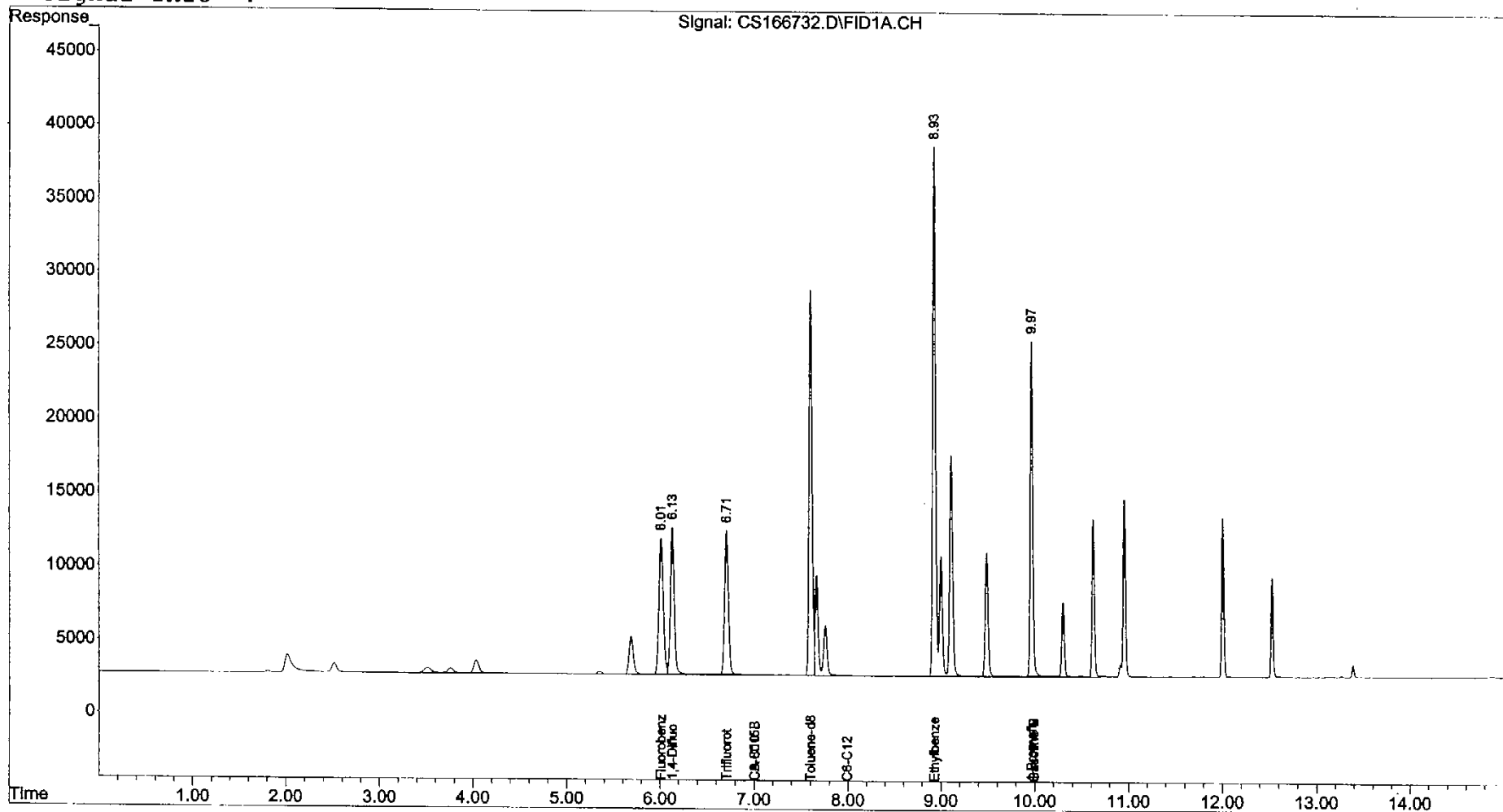
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 Sample : rt std
 Misc : 1369-34-23
 IntFile : events.e
 Quant Time: Aug 18 10:42 2006

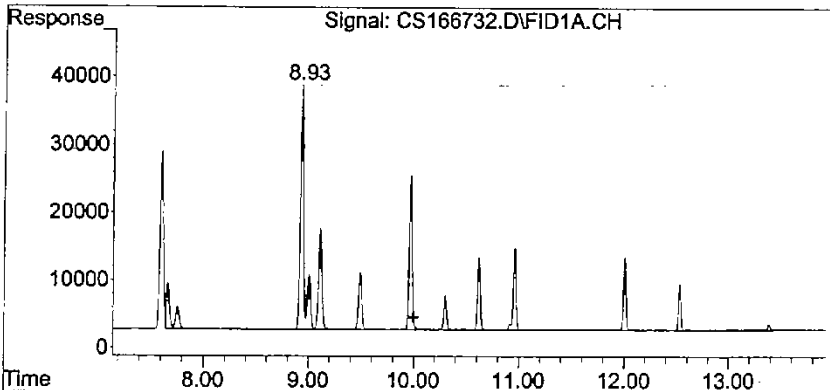
Vial: 2
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Results File: GAS_08172006.RES

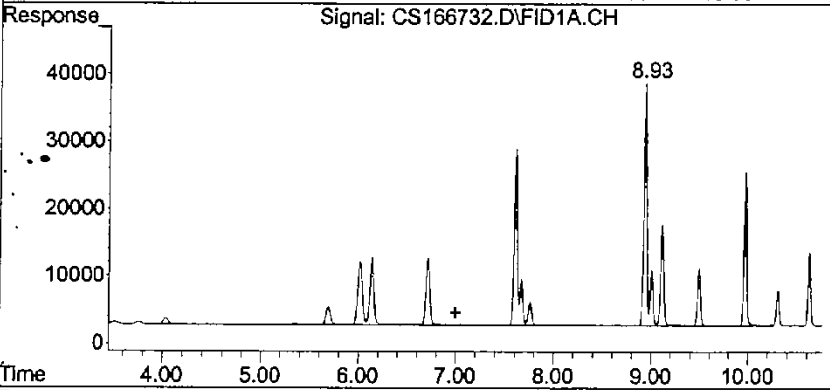
Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Fri Aug 18 09:45:46 2006
 Response via : Multiple Level Calibration
 DataAcq Meth : GBTEX.M

Volume Inj. :
 Signal Phase :
 Signal Info :

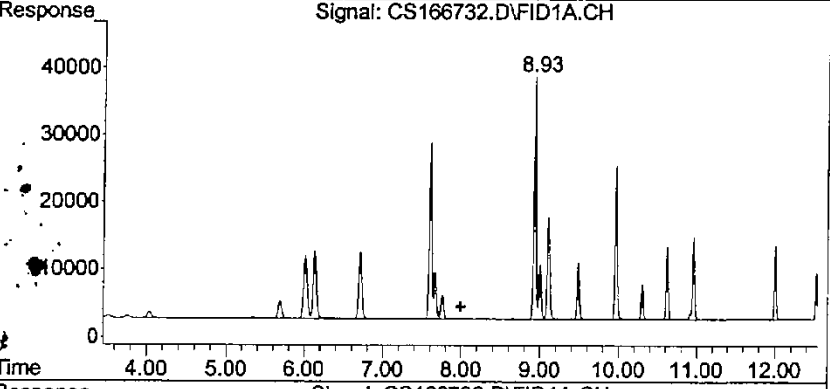




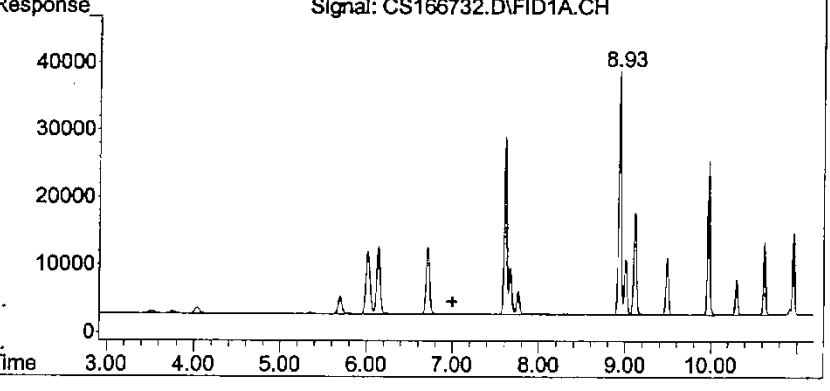
#7 Gasoline By NWTPH-G
 R.T.: 10.000 min
 Delta R.T.: 0.000 min
 Response: 1822763
 Conc: 538.71 ug/L m



#8 C6-C10
 R.T.: 7.000 min
 Delta R.T.: 0.000 min
 Response: 1146397
 Conc: 412.13 ug/L m



#9 C6-C12
 R.T.: 8.000 min
 Delta R.T.: 0.000 min
 Response: 1876448
 Conc: 454.75 ug/L m



#10 CA 8015B
 R.T.: 7.000 min
 Delta R.T.: 0.000 min
 Response: 1481000
 Conc: 426.67 ug/L m

Data File : I:\2\DATA\08172006\CS166719.D Vial: 21
 Acq On : 8-17-2006 05:07:32 PM Operator: jc
 Sample : gro ical 50 Inst : Instrumen
 Misc : 1369-34-12 Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 18 09:46:05 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Fri Aug 18 09:44:54 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 1,4-Difluorobenzene (I)	6.14	282325	62.803 ug/L
Spiked Amount 100.000		Recovery =	62.80%
2) S Fluorobenzene (Surr)	6.02	60928	19.103 ug/L
Spiked Amount 100.000		Recovery =	19.10%
3) S Trifluorotoluene (Surr)	6.71	57113	19.035 ug/L
Spiked Amount 100.000 Range 69 - 120		Recovery =	19.04%#
4) S Toluene-d8 (Surr)	7.61	114879	20.425 ug/L
Spiked Amount 100.000		Recovery =	20.43%
5) S Ethylbenzene-d10 (Surr)	8.93	134635	19.613 ug/L
Spiked Amount 100.000		Recovery =	19.61%
6) S 4-Bromofluorobenzene (Surr)	9.97	80707	18.188 ug/L
Spiked Amount 100.000 Range 70 - 120		Recovery =	18.19%#
Target Compounds			
7) H Gasoline By NWTPH-G	10.00	233662	50.731 ug/L
8) H C6-C10	7.00	210855	49.407 ug/L
9) H C6-C12	8.00	279999	48.478 ug/L
10) H CA 8015B	7.00	253755	49.408 ug/L

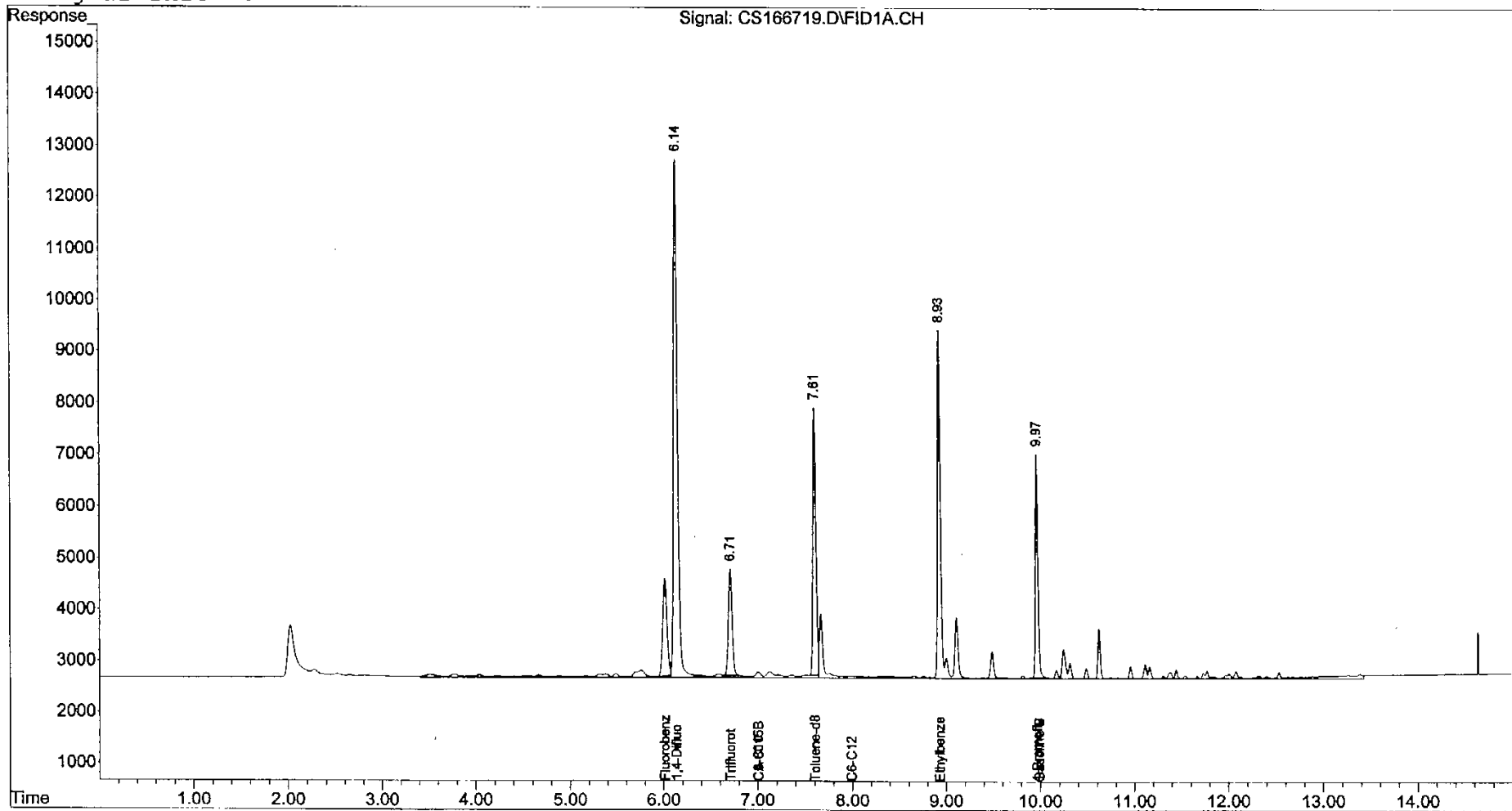
Data File : I:\2\DATA\08172006\CS166719.D
 Acq On : 8-17-2006 05:07:32 PM
 Sample : gro ical 50
 Misc : 1369-34-12
 IntFile : events.e
 Quant Time: Aug 18 9:46 2006

Vial: 21
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Fri Aug 18 09:44:54 2006
 Response via : Multiple Level Calibration
 DataAcq Meth : GBTEX.M

Volume Inj. :
 Signal Phase :
 Signal Info :



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Data File : I:\2\DATA\08172006\CS166720.D Vial: 22
 Acq On : 8-17-2006 05:29:59 PM Operator: jc
 Sample : gro ical 100 Inst : Instrumen
 Misc : 1369-34-13 Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 18 09:46:06 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Fri Aug 18 09:45:46 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX.M

Volume Inj. :
 Signal Phase :
 Signal Info :

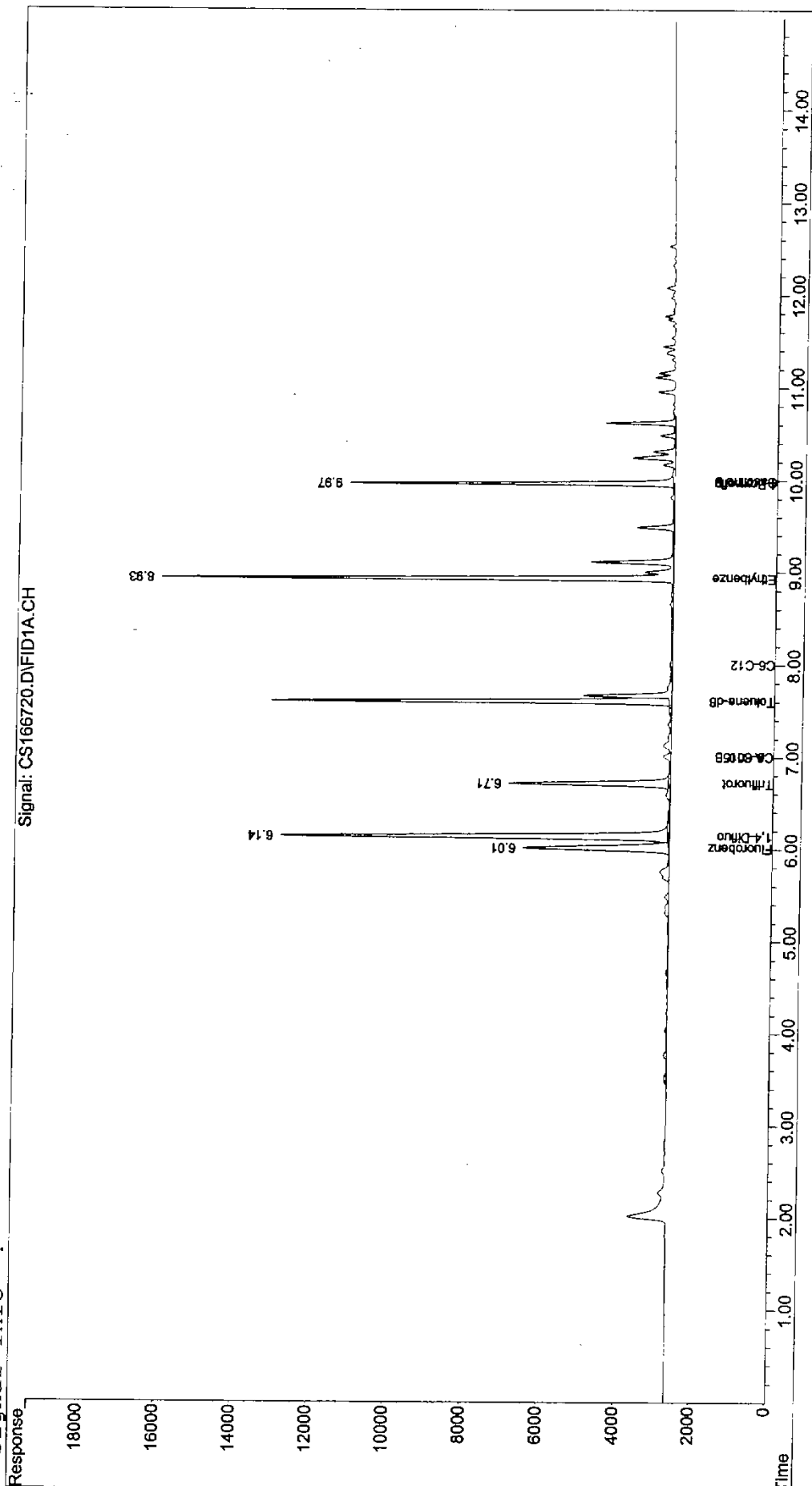
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 1,4-Difluorobenzene (I)	6.14	286621	63.759 ug/L
Spiked Amount 100.000		Recovery =	63.76%
2) S Fluorobenzene (Surr)	6.02	123748	42.099 ug/L
Spiked Amount 100.000		Recovery =	42.10%
3) S Trifluorotoluene (Surr)	6.71	115949	42.277 ug/L
Spiked Amount 100.000 Range 69 - 120		Recovery =	42.28%#
4) S Toluene-d8 (Surr)	7.61	228582	40.640 ug/L
Spiked Amount 100.000		Recovery =	40.64%
5) S Ethylbenzene-d10 (Surr)	8.93	266950	38.888 ug/L
Spiked Amount 100.000		Recovery =	38.89%
6) S 4-Bromofluorobenzene (Surr)	9.97	158906	42.995 ug/L
Spiked Amount 100.000 Range 70 - 120		Recovery =	42.99%#
Target Compounds			
7) H Gasoline By NWTPH-G	10.00	391822	99.298 ug/L
8) H C6-C10	7.00	354758	105.200 ug/L
9) H C6-C12	8.00	514544	108.166 ug/L
10) H CA 8015B	7.00	433232	104.580 ug/L

Data File : I:\2\DATA\08172006\CS166720.D
Acq On : 8-17-2006 05:29:59 PM
Sample : grq ical 100
Misc : 1369-34-13
IntFile : events.e
Quant Time: Aug 18 9:46 2006 Quant Results File: GAS_08172006.RES

Vial: 22
Operator: jc
Inst : Instrument
Multiplr: 1.00

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
Title : GRO by 8015 Modified 08-17-2006
Last Update : Fri Aug 18 09:45:46 2006
Response via : Multiple Level Calibration
DataAcq Meth : GBTEX.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : I:\2\DATA\08172006\CS166721.D Vial: 23
 Acq On : 8-17-2006 05:52:27 PM Operator: jc
 Sample : gro ical 250 Inst : Instrumen
 Misc : 1369-34-14 Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 18 09:46:07 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Fri Aug 18 09:45:46 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S. 1,4-Difluorobenzene (I)	6.14	290558	64.635 ug/L
Spiked Amount 100.000		Recovery =	64.64%
2) S. Fluorobenzene (Surr)	6.02	185414	61.276 ug/L
Spiked Amount 100.000		Recovery =	61.28%
3) S. Trifluorotoluene (Surr)	6.71	171961	60.747 ug/L
Spiked Amount 100.000 Range 69 - 120		Recovery =	60.75%#
4) S. Toluene-d8 (Surr)	7.61	334791	59.523 ug/L
Spiked Amount 100.000		Recovery =	59.52%
5) S. Ethylbenzene-d10 (Surr)	8.93	414031	60.314 ug/L
Spiked Amount 100.000		Recovery =	60.31%
6) S. 4-Bromofluorobenzene (Surr)	9.97	234561	62.618 ug/L
Spiked Amount 100.000 Range 70 - 120		Recovery =	62.62%#
Target Compounds			
7) H. Gasoline By NWTPH-G	10.00	868233	245.592 ug/L
8) H. C6-C10	7.00	701737	239.728 ug/L
9) H. C6-C12	8.00	1051271	244.754 ug/L
10) H. CA 8015B	7.00	882949	242.825 ug/L

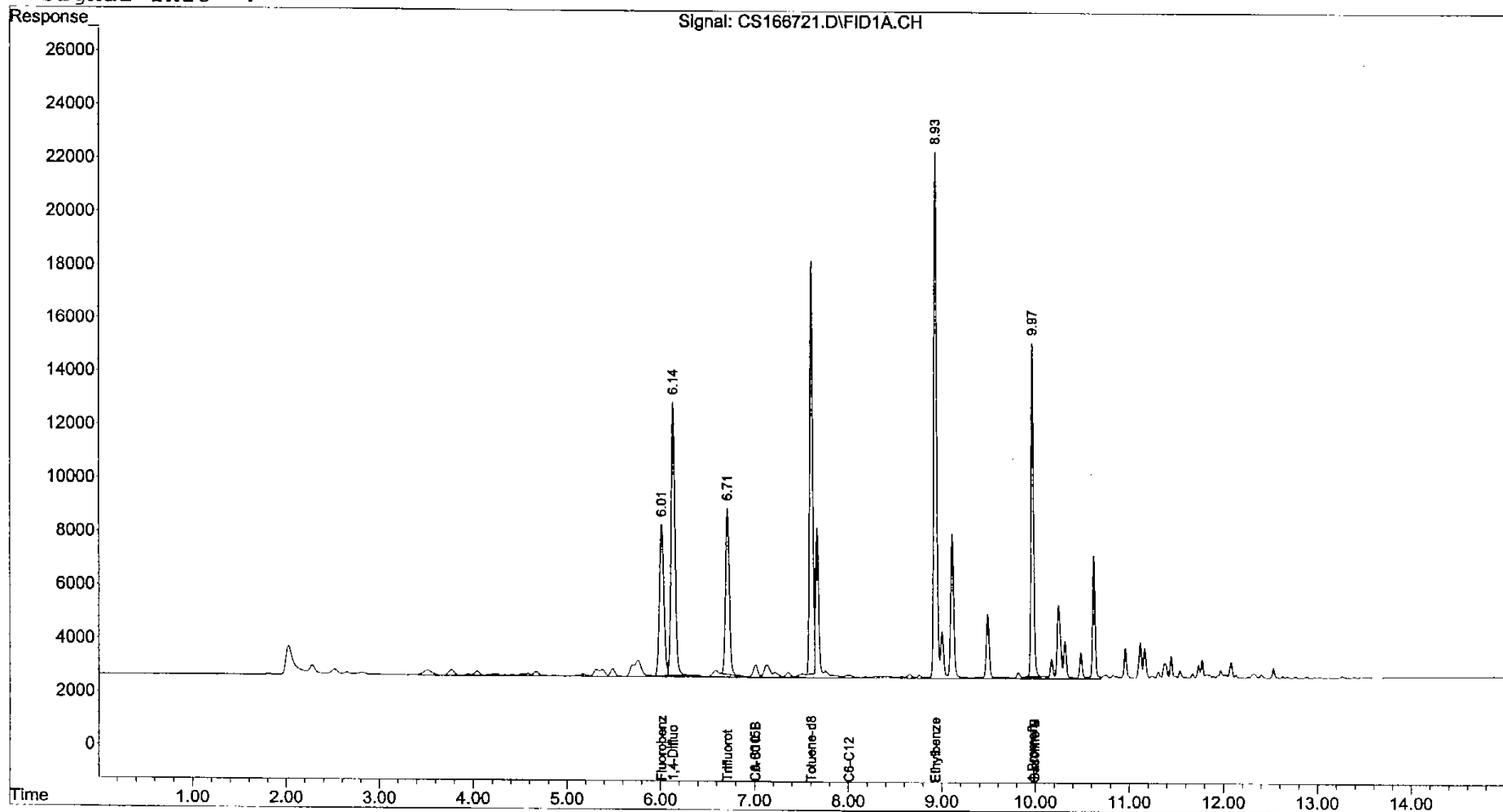
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Acq On : 8-17-2006 05:52:27 PM
Sample : gro ical 250
Misc : 1369-34-14
IntFile : events.e

Vial: 23
Operator: jc
Inst : Instrumen
Multiplr: 1.00

Quant Time: Aug 18 9:46 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
Title : GRO by 8015 Modified 08-17-2006
Last Update : Fri Aug 18 09:45:46 2006
Response via : Multiple Level Calibration
DataAcq Meth : GBTEX.M

Volume Inj. :
Signal Phase :
Signal Info :



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Data File : I:\2\DATA\08172006\CS166722.D Vial: 24
 Acq On : 8-17-2006 06:14:52 PM Operator: jc
 Sample : gro ical 500 Inst : Instrumen
 Misc : 1369-34-15 Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 18 09:46:08 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Fri Aug 18 09:45:46 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 1,4-Difluorobenzene (I)	6.14	295905	65.824 ug/L
Spiked Amount 100.000		Recovery =	65.82%
2) S Fluorobenzene (Surr)	6.02	249441	78.876 ug/L
Spiked Amount 100.000		Recovery =	78.88%
3) S Trifluorotoluene (Surr)	6.71	236036	79.179 ug/L
Spiked Amount 100.000 Range 69 - 120		Recovery =	79.18%
4) S Toluene-d8 (Surr)	7.61	449624	79.940 ug/L
Spiked Amount 100.000		Recovery =	79.94%
5) S Ethylbenzene-d10 (Surr)	8.93	547099	79.698 ug/L
Spiked Amount 100.000		Recovery =	79.70%
6) S 4-Bromofluorobenzene (Surr)	9.97	311694	79.988 ug/L
Spiked Amount 100.000 Range 70 - 120		Recovery =	79.99%
Target Compounds			
7) H Gasoline By NWTPH-G	10.00	1598620	469.876 ug/L
8) H C6-C10	7.00	1303444	473.016 ug/L
9) H C6-C12	8.00	1955000	474.737 ug/L
10) H CA 8015B	7.00	1642897	476.436 ug/L

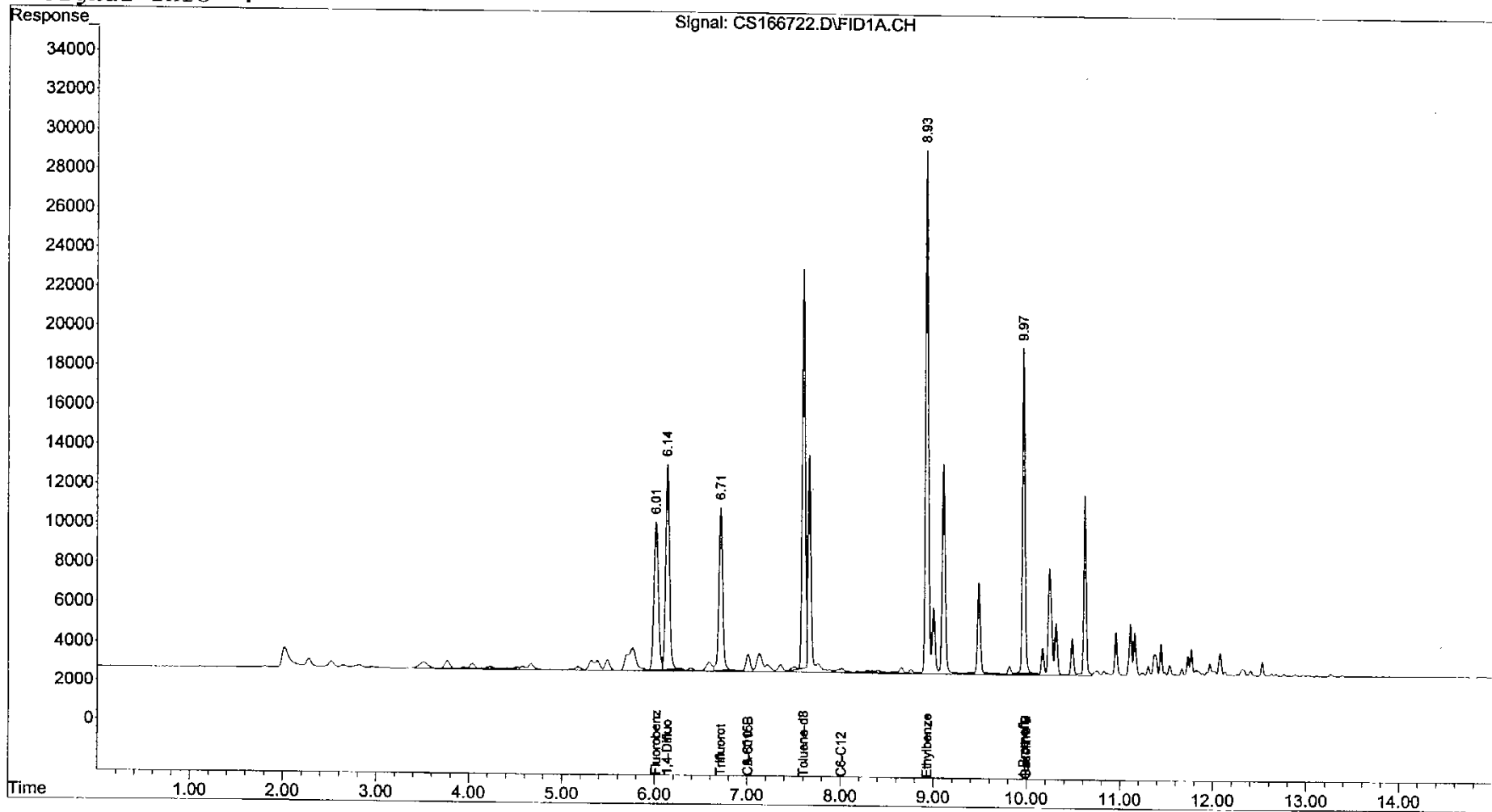
Data File : I:\2\DATA\08172006\CS166722.D
Acq On : 8-17-2006 06:14:52 PM
Sample : gro ical 500
Misc : 1369-34-15
IntFile : events.e

Vial: 24
Operator: jc
Inst : Instrumen
Multiplr: 1.00

Quant Time: Aug 18 9:46 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
Title : GRO by 8015 Modified 08-17-2006
Last Update : Fri Aug 18 09:45:46 2006
Response via : Multiple Level Calibration
DataAcq Meth : GBTEX.M

Volume Inj. :
Signal Phase :
Signal Info :



Fluorobenz
1,4-Difluo
Trifluorot
CA-80168
Toluene-d8
C6-C12
Ethylbenze
Benzene

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Data File : I:\2\DATA\08172006\CS166723.D Vial: 25
 Acq On : 8-17-2006 06:37:17 PM Operator: jc
 Sample : gro ical 1100 Inst : Instrumen
 Misc : 1369-34-16 Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 18 09:46:09 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Fri Aug 18 09:45:46 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 1,4-Difluorobenzene (I)	6.14	309233	68.789 ug/L
Spiked Amount 100.000		Recovery =	68.79%
2) S Fluorobenzene (Surr)	6.01	323562	97.178 ug/L
Spiked Amount 100.000		Recovery =	97.18%
3) S Trifluorotoluene (Surr)	6.71	309771	97.972 ug/L
Spiked Amount 100.000 Range 69 - 120		Recovery =	97.97%
4) S Toluene-d8 (Surr)	7.61	542413	96.437 ug/L
Spiked Amount 100.000		Recovery =	96.44%
5) S Ethylbenzene-d10 (Surr)	8.93	682391	99.407 ug/L
Spiked Amount 100.000		Recovery =	99.41%
6) S 4-Bromofluorobenzene (Surr)	9.97	393239	96.379 ug/L
Spiked Amount 100.000 Range 70 - 120		Recovery =	96.38%
Target Compounds			
7) H Gasoline By NWTPH-G	10.00	3504656	1055.174 ug/L
8) H C6-C10	7.00	2884520	1086.016 ug/L
9) H C6-C12	8.00	4300241	1071.560 ug/L
10) H CA 8015B	7.00	3615760	1082.902 ug/L

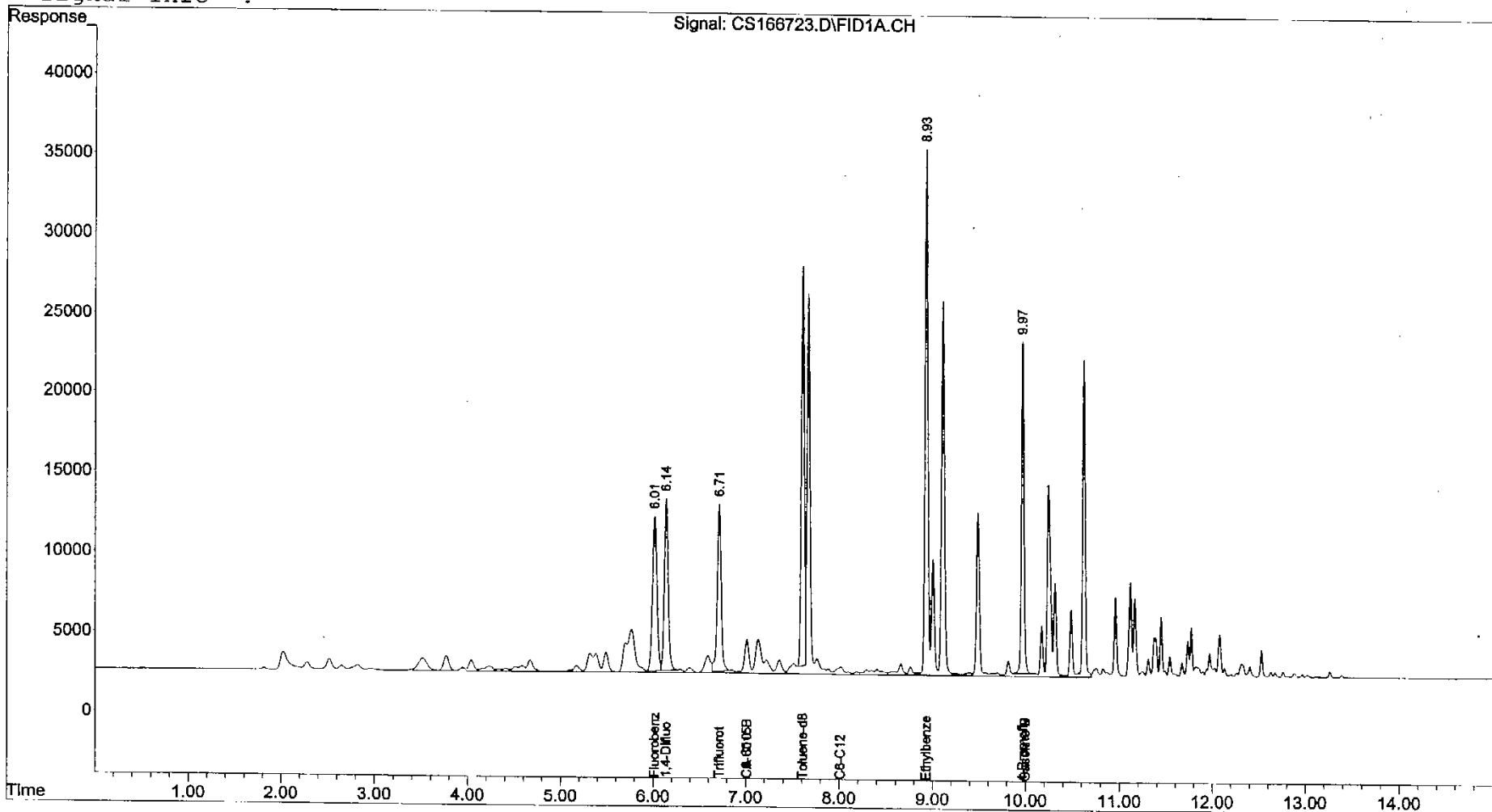
Data File : I:\2\DATA\08172006\CS166723.D
 Acq On : 8-17-2006 06:37:17 PM
 Sample : gro ical 1100
 Misc : 1369-34-16
 IntFile : events.e

Vial: 25
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Time: Aug 18 9:46 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Fri Aug 18 09:45:46 2006
 Response via : Multiple Level Calibration
 DataAcq Meth : GBTEX.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : I:\2\DATA\08172006\CS166724.D Vial: 26
 Acq On : 8-17-2006 06:59:39 PM Operator: jc
 Sample : gro ical 5000 Inst : Instrumen
 Misc : 1369-34-17 Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 18 09:46:10 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Fri Aug 18 09:45:46 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX.M

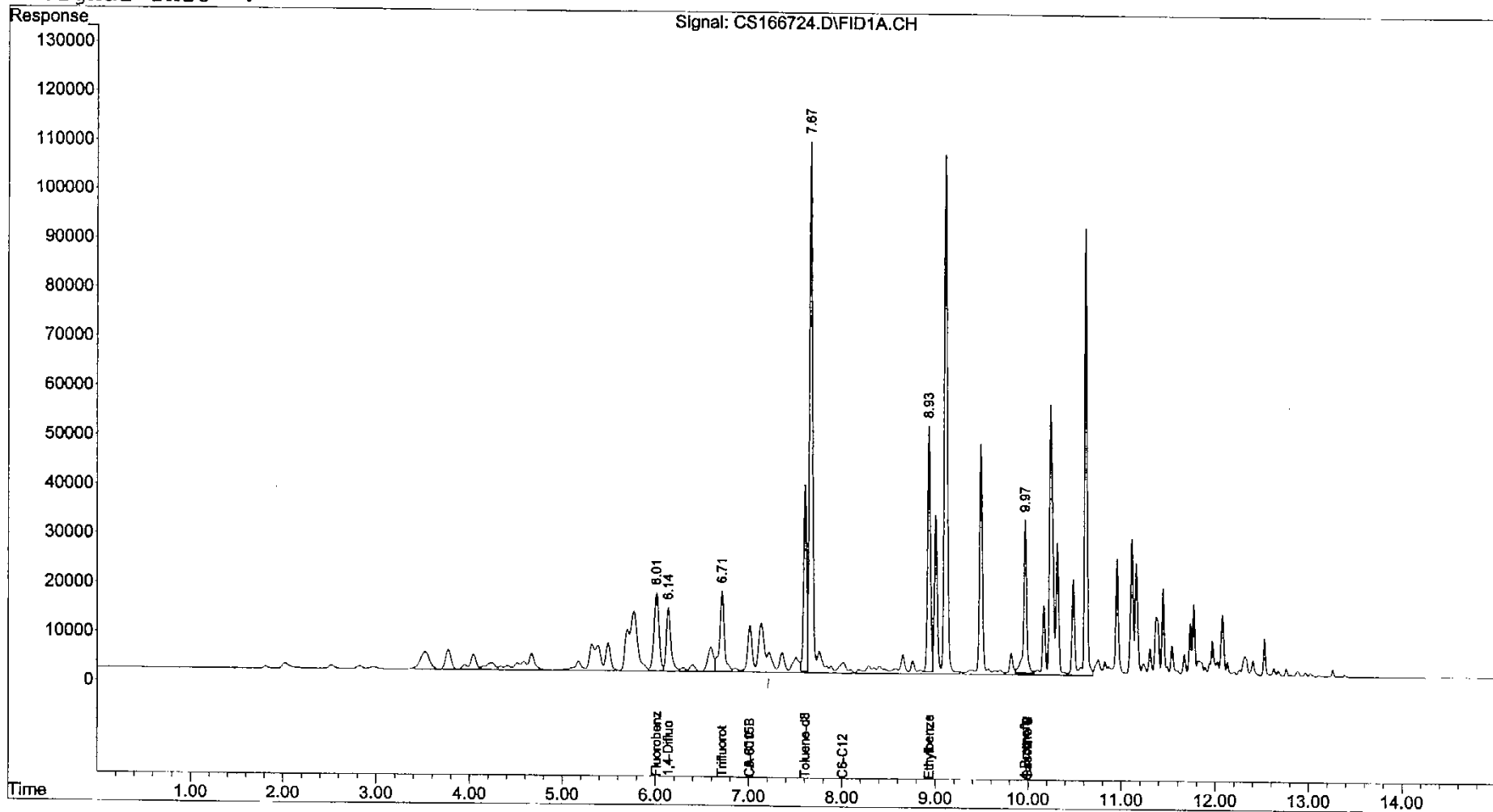
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 1,4-Difluorobenzene (I)	6.14	424376	94.403 ug/L
Spiked Amount 100.000		Recovery =	94.40%
2) S Fluorobenzene (Surr)	6.01	591028	151.899 ug/L
Spiked Amount 100.000		Recovery =	151.90%
3) S Trifluorotoluene (Surr)	6.71	563201	150.928 ug/L
Spiked Amount 100.000 Range 69 - 120		Recovery =	150.93%#
4) S Toluene-d8 (Surr)	7.61	839142	149.193 ug/L
Spiked Amount 100.000		Recovery =	149.19%
5) S Ethylbenzene-d10 (Surr)	8.93	1041402	151.706 ug/L
Spiked Amount 100.000		Recovery =	151.71%
6) S 4-Bromofluorobenzene (Surr)	9.97	712313	148.973 ug/L
Spiked Amount 100.000 Range 70 - 120		Recovery =	148.97%#
Target Compounds			
7) H Gasoline By NWTPH-G	10.00	16209954	4956.663 ug/L
8) H C6-C10	7.00	12749224	4910.670 ug/L
9) H C6-C12	8.00	19445903	4925.866 ug/L
10) H CA 8015B	7.00	16189387	4948.087 ug/L

Data File : I:\2\DATA\08172006\CS166724.D Vial: 26
 Acq On : 8-17-2006 06:59:39 PM Operator: jc
 Sample : gro ical 5000 Inst : Instrumen
 Misc : 1369-34-17 Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 18 9:46 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Fri Aug 18 09:45:46 2006
 Response via : Multiple Level Calibration
 DataAcq Meth : GBTEX.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : I:\2\DATA\08172006\CS166725.D Vial: 27
 Acq On : 8-17-2006 07:22:04 PM Operator: jc
 Sample : gro ical 10000 Inst : Instrumen
 Misc : 1369-34-18 Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 18 09:46:11 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Fri Aug 18 09:45:46 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX.M

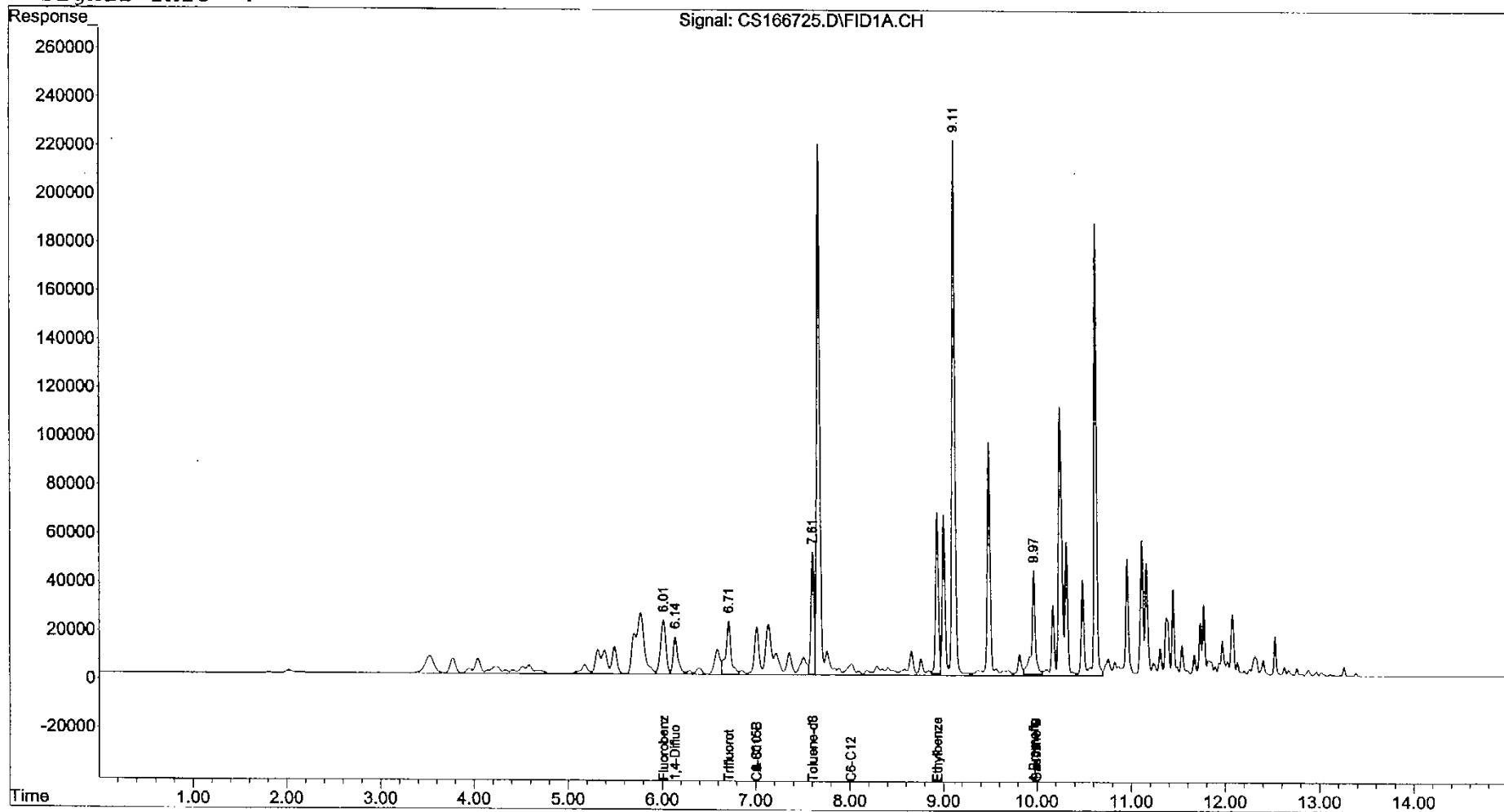
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S: 1,4-Difluorobenzene (I)	6.14	553698	123.170 ug/L
Spiked Amount 100.000		Recovery =	123.17%
2) S Fluorobenzene (Surr)	6.01	880519	199.641 ug/L
Spiked Amount 100.000		Recovery =	199.64%
3) S: Trifluorotoluene (Surr)	6.71	858118	199.986 ug/L
Spiked Amount 100.000 Range 69 - 120		Recovery =	199.99%#
4) S Toluene-d8 (Surr)	7.61	1138960	202.498 ug/L
Spiked Amount 100.000		Recovery =	202.50%
5) S Ethylbenzene-d10 (Surr)	8.93	1428205	208.053 ug/L
Spiked Amount 100.000		Recovery =	208.05%
6) S 4-Bromofluorobenzene (Surr)	9.97	1115653	201.184 ug/L
Spiked Amount 100.000 Range 70 - 120		Recovery =	201.18%#
Target Compounds			
7) H Gasoline By NWTPH-G	10.00	33582767	10291.433 ug/L
8) H C6-C10	7.00	25992458	10045.218 ug/L
9) H C6-C12	8.00	39614828	10058.506 ug/L
10) H CA 8015B	7.00	32845225	10068.161 ug/L

Data File : I:\2\DATA\08172006\CS166725.D Vial: 27
 Acq On : 8-17-2006 07:22:04 PM Operator: jc
 Sample : gro ical 10000 Inst : Instrumen
 Misc : 1369-34-18 Multiplr: 1.00
 IntFile : events
 Quant Time: Aug 18 9:46 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Fri Aug 18 09:45:46 2006
 Response via : Multiple Level Calibration
 DataAcq Meth : GBTEX.M

Volume Inj. :
 Signal Phase :
 Signal Info :



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Data File : I:\2\DATA\08172006\CS166726.D Vial: 28
 Acq On : 8-17-2006 07:44:36 PM Operator: jc
 Sample : gro ical 15000 Inst : Instrumen
 Misc : 1369-34-19 Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 18 09:45:12 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Fri Aug 18 09:42:39 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S. 1,4-Difluorobenzene (I)	6.14	677461	150.701 ug/L
Spiked Amount 100.000		Recovery =	150.70%
Target Compounds			
7) H. Gasoline By NWTPH-G	10.00	50976192	15632.533 ug/L
8) H. C6-C10	7.00	40067484	15502.260 ug/L
9) H. C6-C12	8.00	60534453	15382.185 ug/L
10) H. CA 8015B	7.00	50382497	15459.191 ug/L

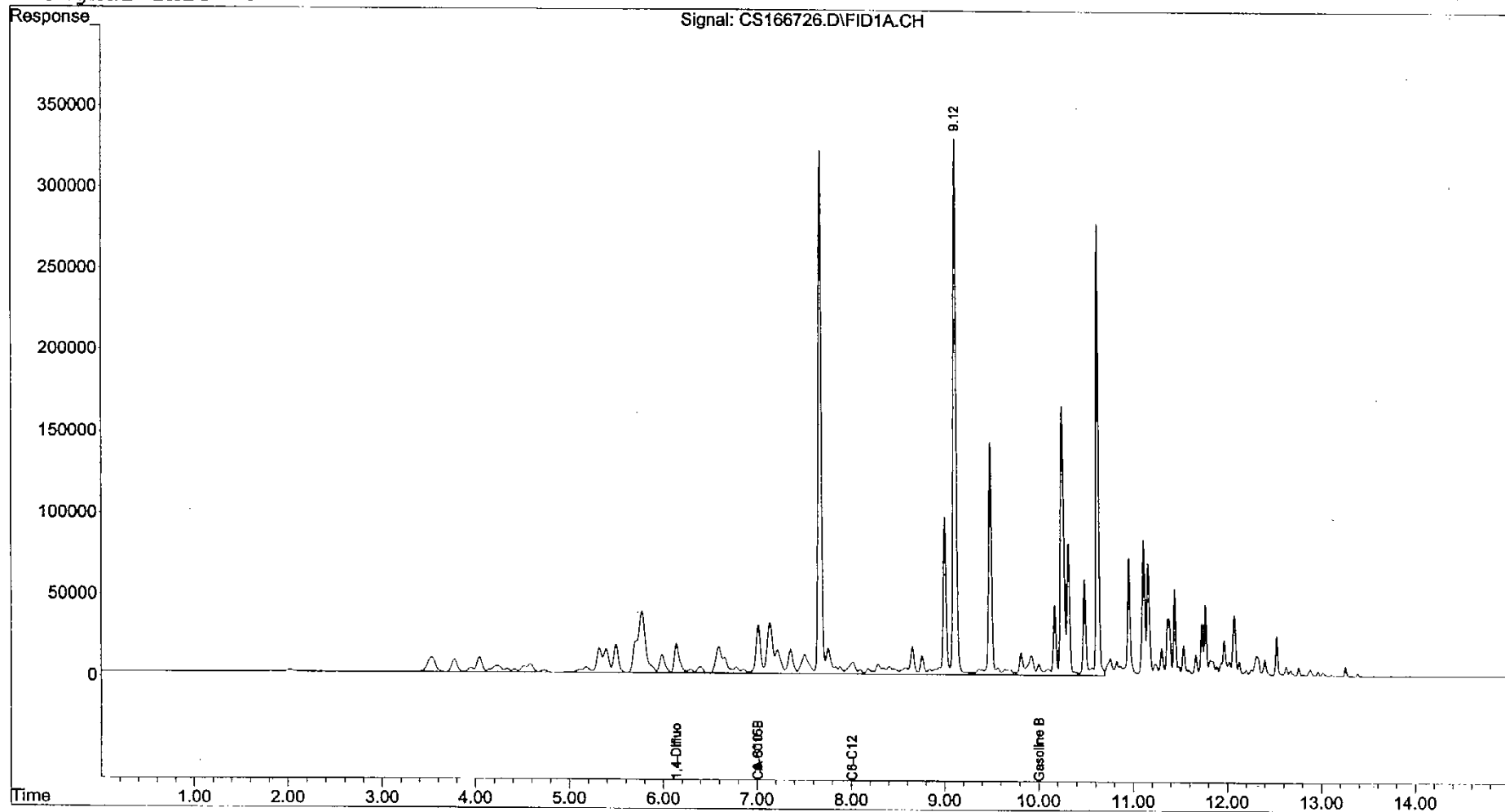
Data File : I:\2\DATA\08172006\CS166726.D
 Acq On : 8-17-2006 07:44:36 PM
 Sample : gro ical 15000
 Misc : 1369-34-19
 IntFile : events.e

Vial: 28
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Time: Aug 18 9:45 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Fri Aug 18 09:42:39 2006
 Response via : Multiple Level Calibration
 DataAcq Meth : GBTEX.M

Volume Inj. :
 Signal Phase :
 Signal Info :



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Data File : I:\2\DATA\08172006\CS166727.D Vial: 29
 Acq On : 8-17-2006 08:07:07 PM Operator: jc
 Sample : gro ical 25000 Inst : Instrumen
 Misc : 1369-34-20 Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 18 09:45:13 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Fri Aug 18 09:44:54 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 1,4-Difluorobenzene (I)	6.14	925672	205.916 ug/L
Spiked Amount 100.000		Recovery =	205.92%
Target Compounds			
7) H Gasoline By NWTPH-G	10.00	85421054	26209.716 ug/L
8) H C6-C10	7.00	67626541	26187.208 ug/L
9) H C6-C12	8.00	101239158	25740.822 ug/L
10) H CA 8015B	7.00	83888081	25758.946 ug/L

Data File : I:\2\DATA\08172006\CS166727.D

Vial: 29

Acq On : 8-17-2006 08:07:07 PM

Operator: jc

Sample : gro ical 25000

Inst : Instrumen

Miss : 1369-34-20

Multiplr: 1.00

IntFile : events.e

Quant Time: Aug 18 9:45 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)

Title : GRO by 8015 Modified 08-17-2006

Last Update : Fri Aug 18 09:44:54 2006

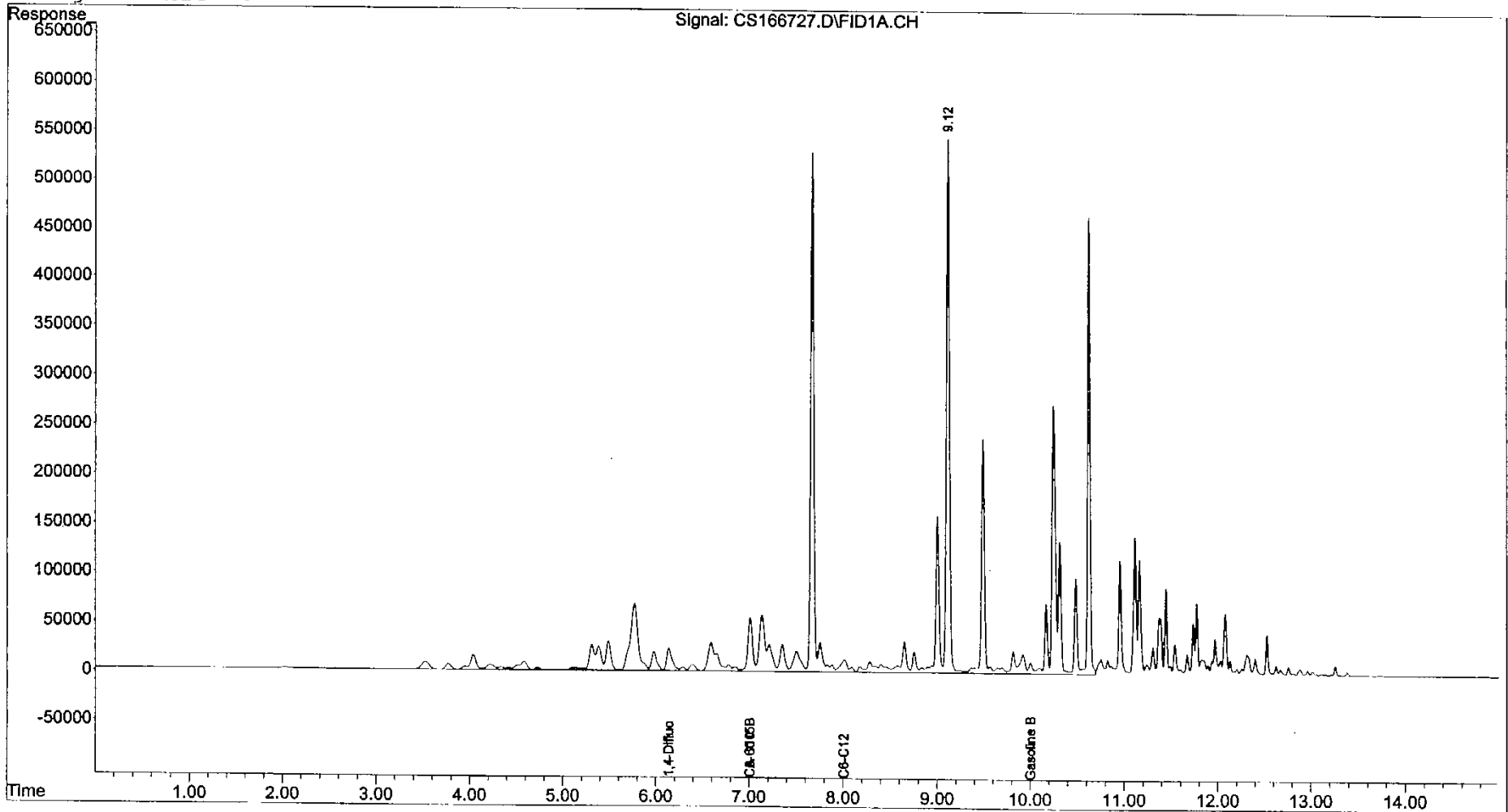
Response via : Multiple Level Calibration

DataAcq Meth : GBTEX.M

Volume Inj. :

Signal Phase :

Signal Info :



Page 237 of 383

Data File : I:\2\DATA\08182006\CS166733.D Vial: 3
 Acq On : 18 Aug 2006 10:49 am Operator: jc
 Sample : gro icv 1100 Inst : Instrumen
 Misc : 1369-35-1 Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 18 11:54:30 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Fri Aug 18 09:45:46 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 1,4-Difluorobenzene (I)	6.14	301180	66.998 ug/L
Spiked Amount 100.000		Recovery =	67.00%
2) S Fluorobenzene (Surr)	6.01	335125	99.873 ug/L
Spiked Amount 100.000		Recovery =	99.87%
3) S Trifluorotoluene (Surr)	6.71	324015	101.372 ug/L
Spiked Amount 100.000 Range 69 - 120		Recovery =	101.37%
4) S Toluene-d8 (Surr)	7.61	563653	100.213 ug/L
Spiked Amount 100.000		Recovery =	100.21%
5) S Ethylbenzene-d10 (Surr)	8.93	738099	107.522 ug/L
Spiked Amount 100.000		Recovery =	107.52%
6) S 4-Bromofluorobenzene (Surr)	9.97	433069	103.821 ug/L
Spiked Amount 100.000 Range 70 - 120		Recovery =	103.82%
Target Compounds			
7) H Gasoline By NWTPH-G	10.00	3829968	1155.069 ug/L
8) H C6-C10	7.00	3352695	1267.533 ug/L
9) H C6-C12	8.00	4682660	1168.879 ug/L
10) H CA 8015B	7.00	4095157	1230.271 ug/L

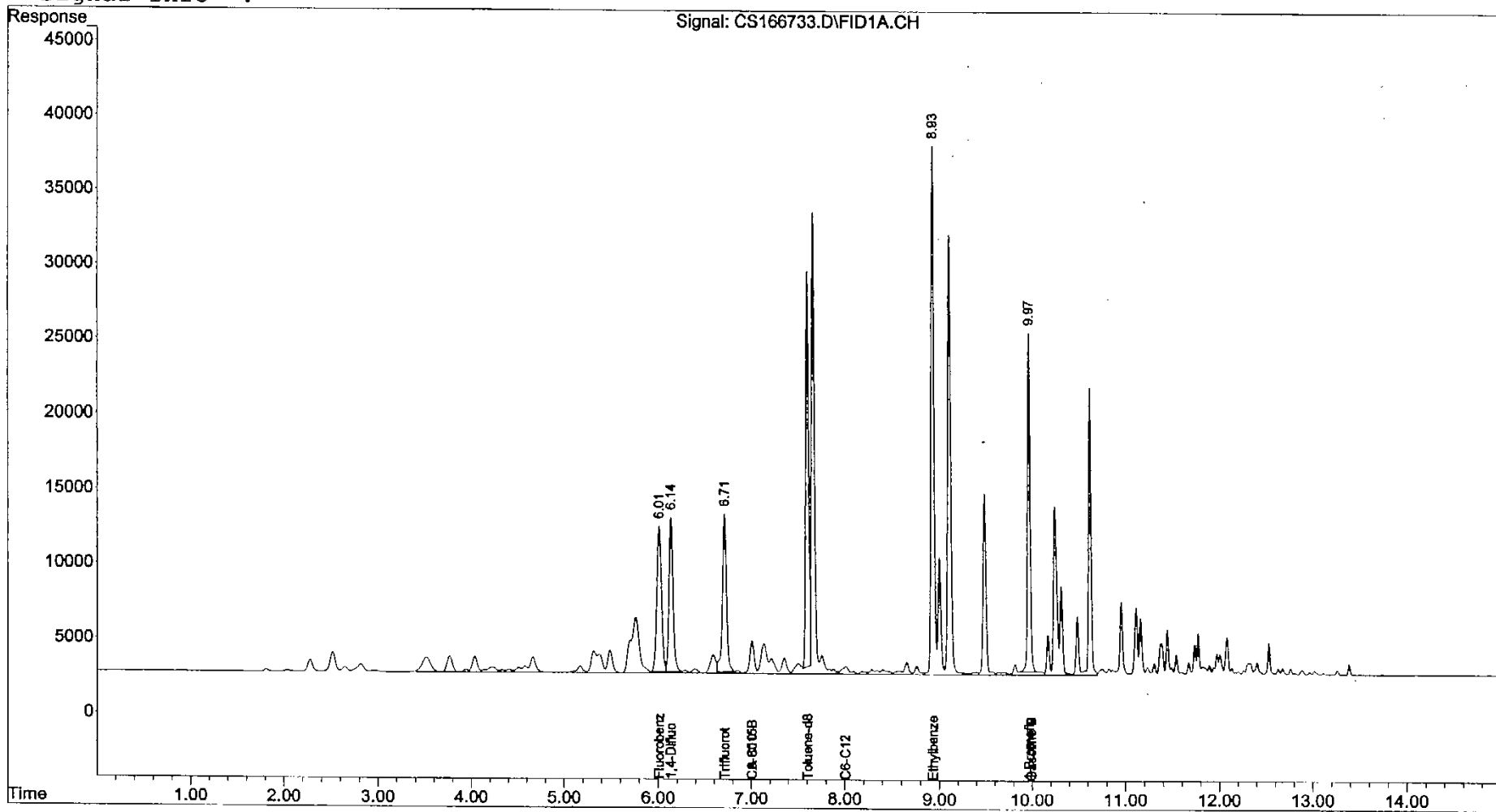
Data File : I:\2\DATA\08182006\CS166733.D
 Acq On : 18 Aug 2006 10:49 am
 Sample : gro icv 1100
 Misc : 1369-35-1
 IntFile : events.e

Vial: 3
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Time: Aug 18 11:54 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Fri Aug 18 09:45:46 2006
 Response via : Multiple Level Calibration
 DataAcq Meth : GBTEX.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Evaluate Continuing Calibration Report

Data File : I:\2\DATA\08182006\CS166733.D
 Acq On : 18 Aug 2006 10:49 am
 Sample : gro icv 1100
 Misc : 1369-35-1
 IntFile : events.e

Vial: 3
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Fri Aug 18 09:45:46 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev (min)
1 S 1,4-Difluorobenzene (I)	100.000	66.998	33.0#	97	0.00
2 S Fluorobenzene (Surr)	100.000	99.873	0.1	104	0.00
3 S Trifluorotoluene (Surr)	100.000	101.372	-1.4	105	0.00
4 S Toluene-d8 (Surr)	100.000	100.213	-0.2	104	0.00
5 S Ethylbenzene-d10 (Surr)	100.000	107.522	-7.5	108	0.00
6 S 4-Bromofluorobenzene (Surr)	100.000	103.821	-3.8	110	0.00
7 H Gasoline By NWTPH-G	1100.000	1155.069	-5.0	109	0.00
8 H C6-C10	1100.000	1267.533	-15.2#	116	0.00
9 H C6-C12	1100.000	1168.879	-6.3	109	0.00
10 H CA 8015B	1100.000	1230.271	-11.8	113	0.00

Evaluate Continuing Calibration Report

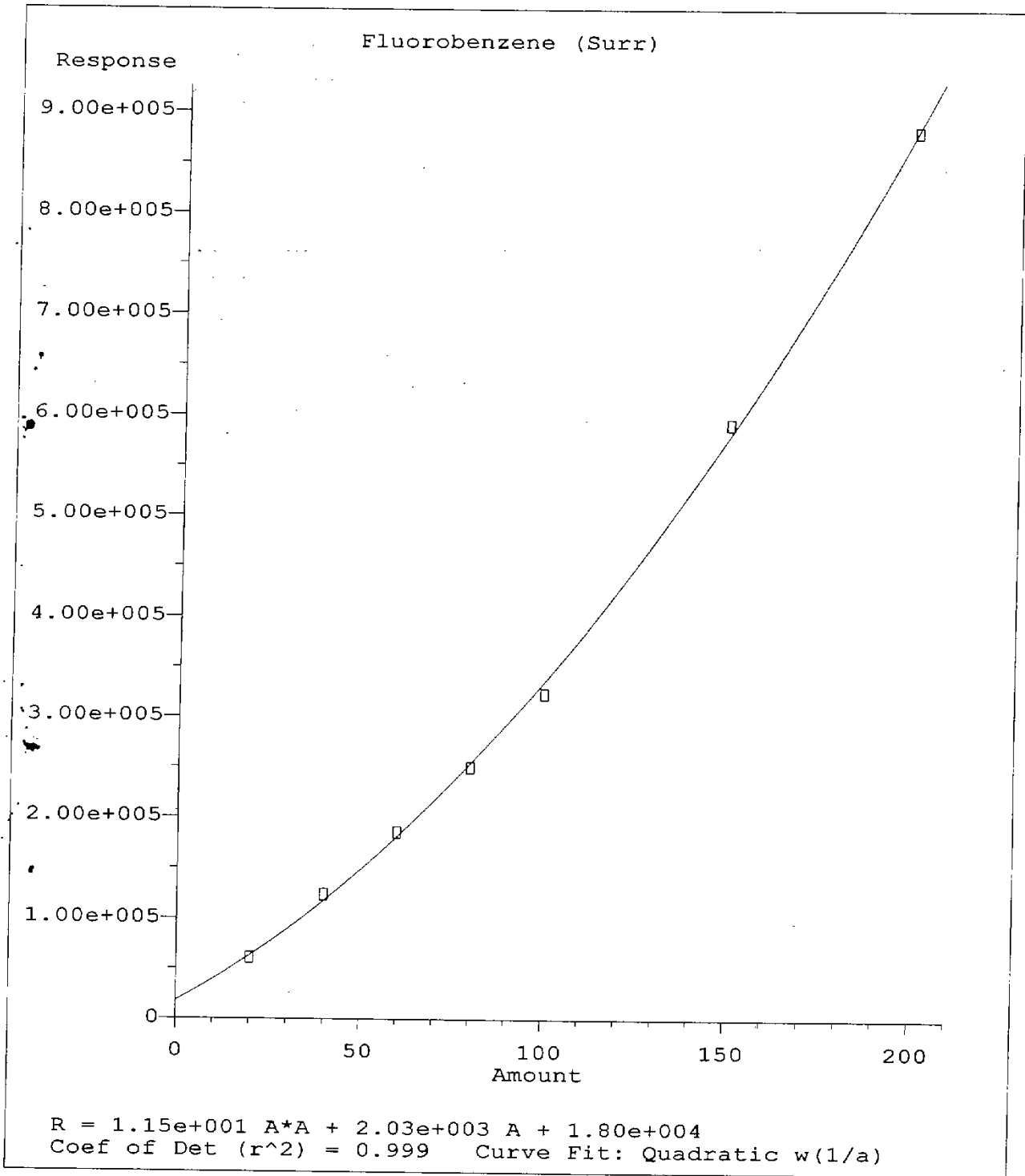
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 Misc : 1369-35-1
 IntFile : events.e

Vial: 3
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

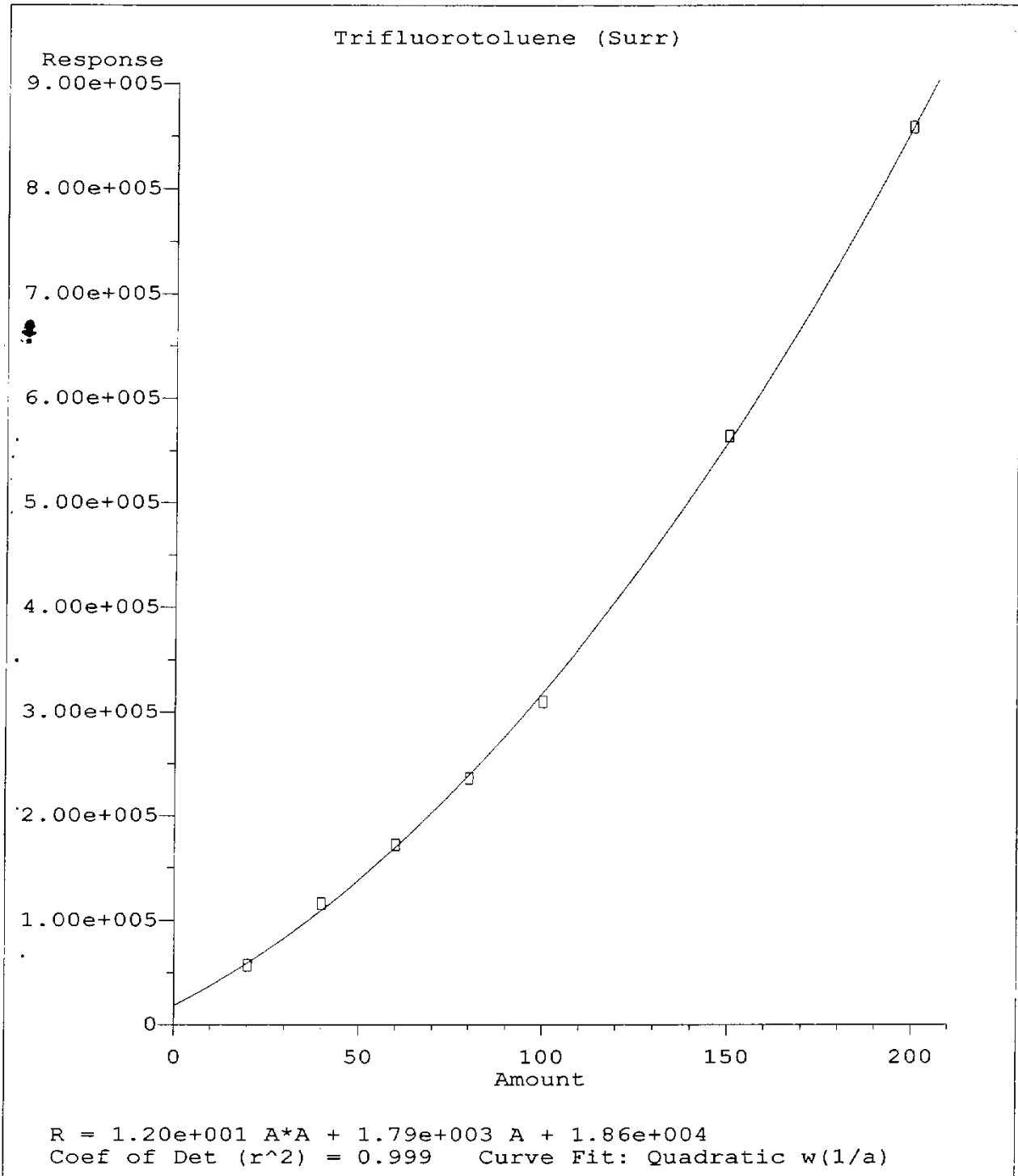
Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Fri Aug 18 09:45:46 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 S 1,4-Difluorobenzene (I)	4.495	3.012 E3	33.0#	97	0.00
2 S Fluorobenzene (Surr)	3.418	3.351 E3	2.0	104	0.00
3 S Trifluorotoluene (Surr)	3.245	3.240 E3	0.2	105	0.00
4 S Toluene-d8 (Surr)	5.625	5.637 E3	-0.2	104	0.00
5 S Ethylbenzene-d10 (Surr)	6.865	7.381 E3	-7.5	108	0.00
6 S 4-Bromofluorobenzene (Surr)	4.296	4.331 E3	-0.8	110	0.00
7 H Gasoline By NWTPH-G	3.540	3.482 E3	1.6	109	0.00
8 H C6-C10	2.925	3.048 E3	-4.2	116	0.00
9 H C6-C12	4.301	4.257 E3	1.0	109	0.00
10 H CA 8015B	3.639	3.723 E3	-2.3	113	0.00



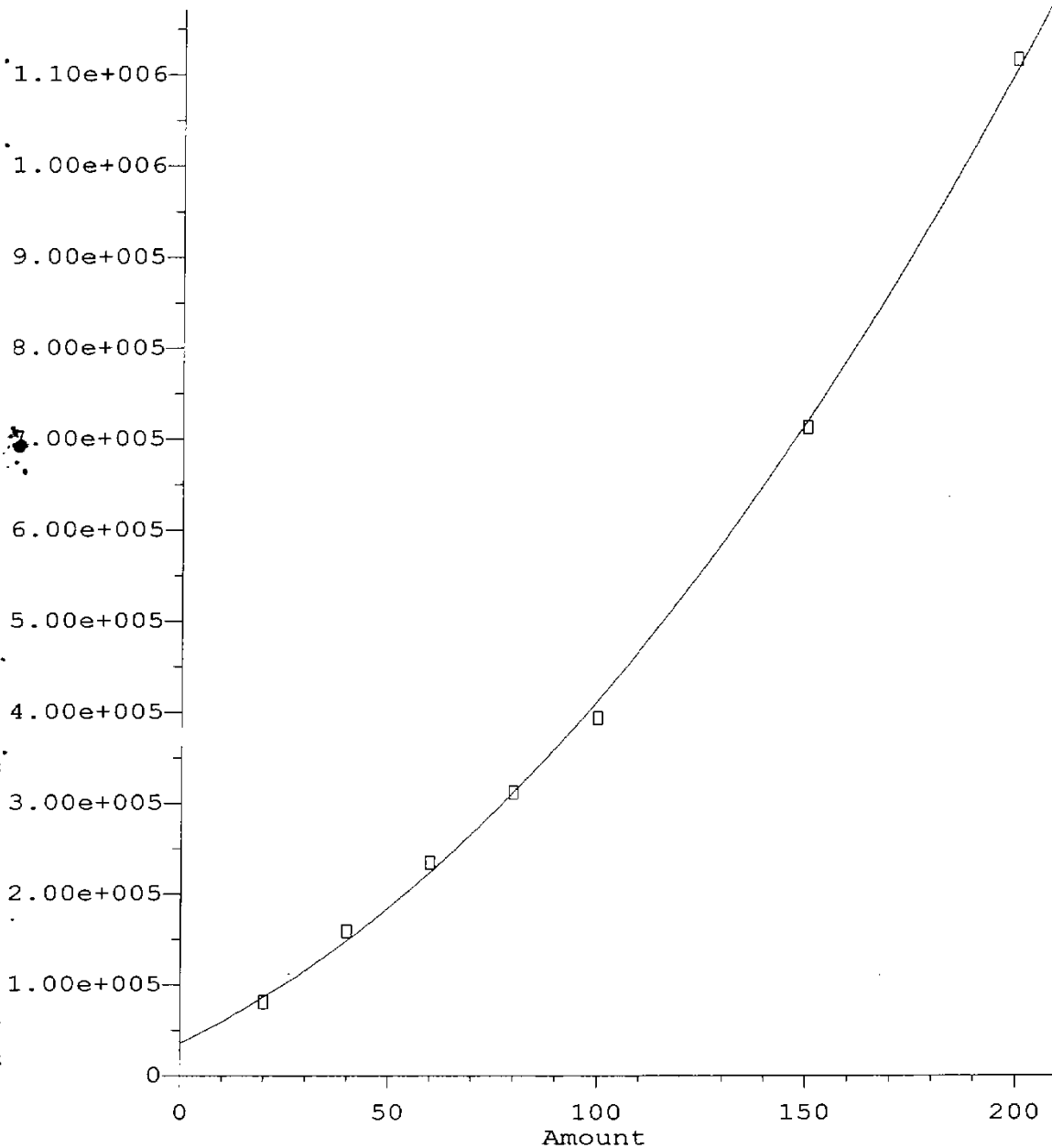
Method Name: I:\2\METHODS\GAS_08172006.M
 Calibration Table Last Updated: Fri Aug 18 09:45:46 2006



Method Name: I:\2\METHODS\GAS_08172006.M
Calibration Table Last Updated: Fri Aug 18 09:45:46 2006

4-Bromofluorobenzene (Surr)

Response

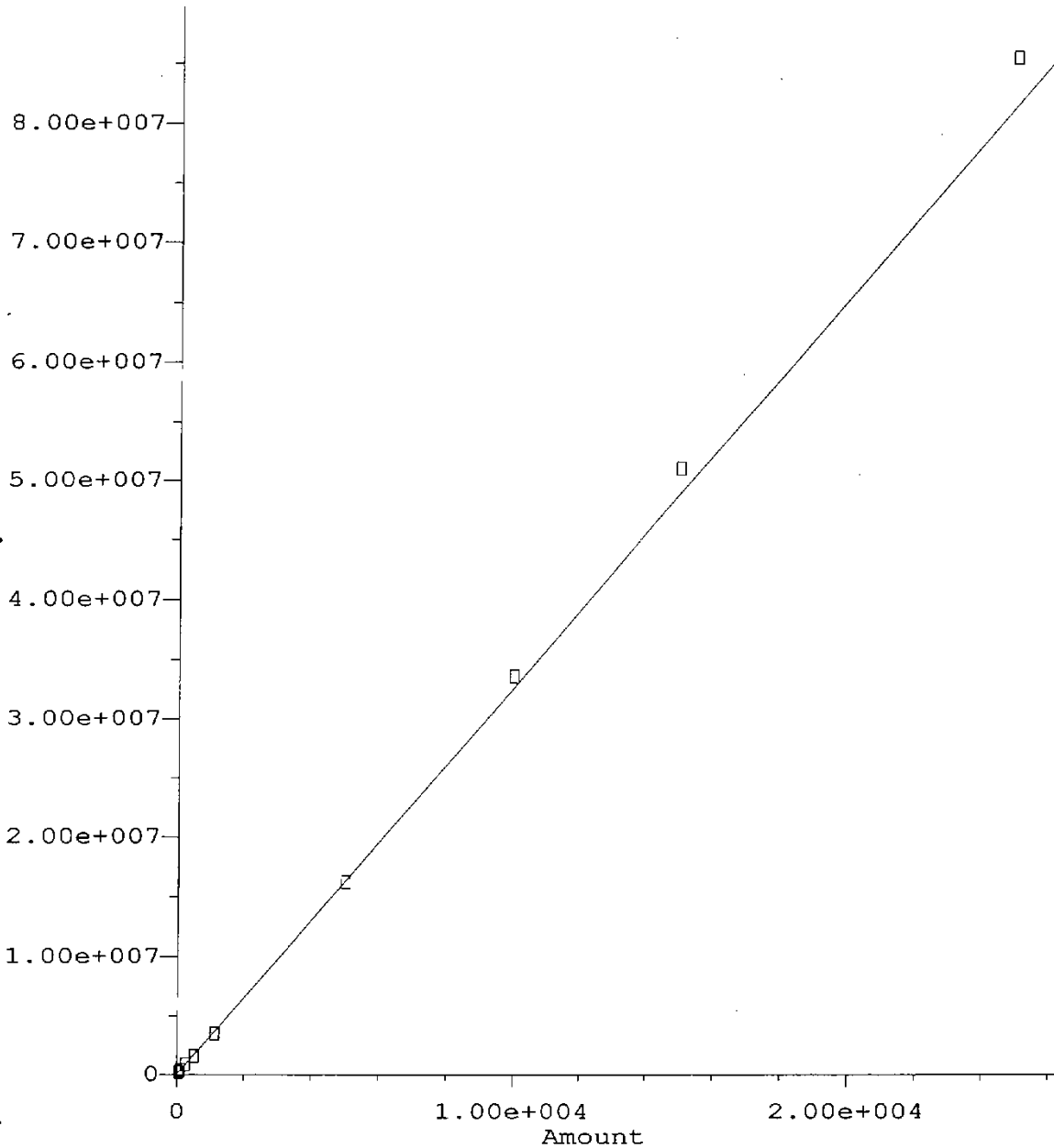


$R = 1.58e+001 A^2 + 2.18e+003 A + 3.57e+004$
Coef of Det (r^2) = 0.999 Curve Fit: Quadratic w(1/a)

Method Name: I:\2\METHODS\GAS_08172006.M
Calibration Table Last Updated: Fri Aug 18 09:45:46 2006

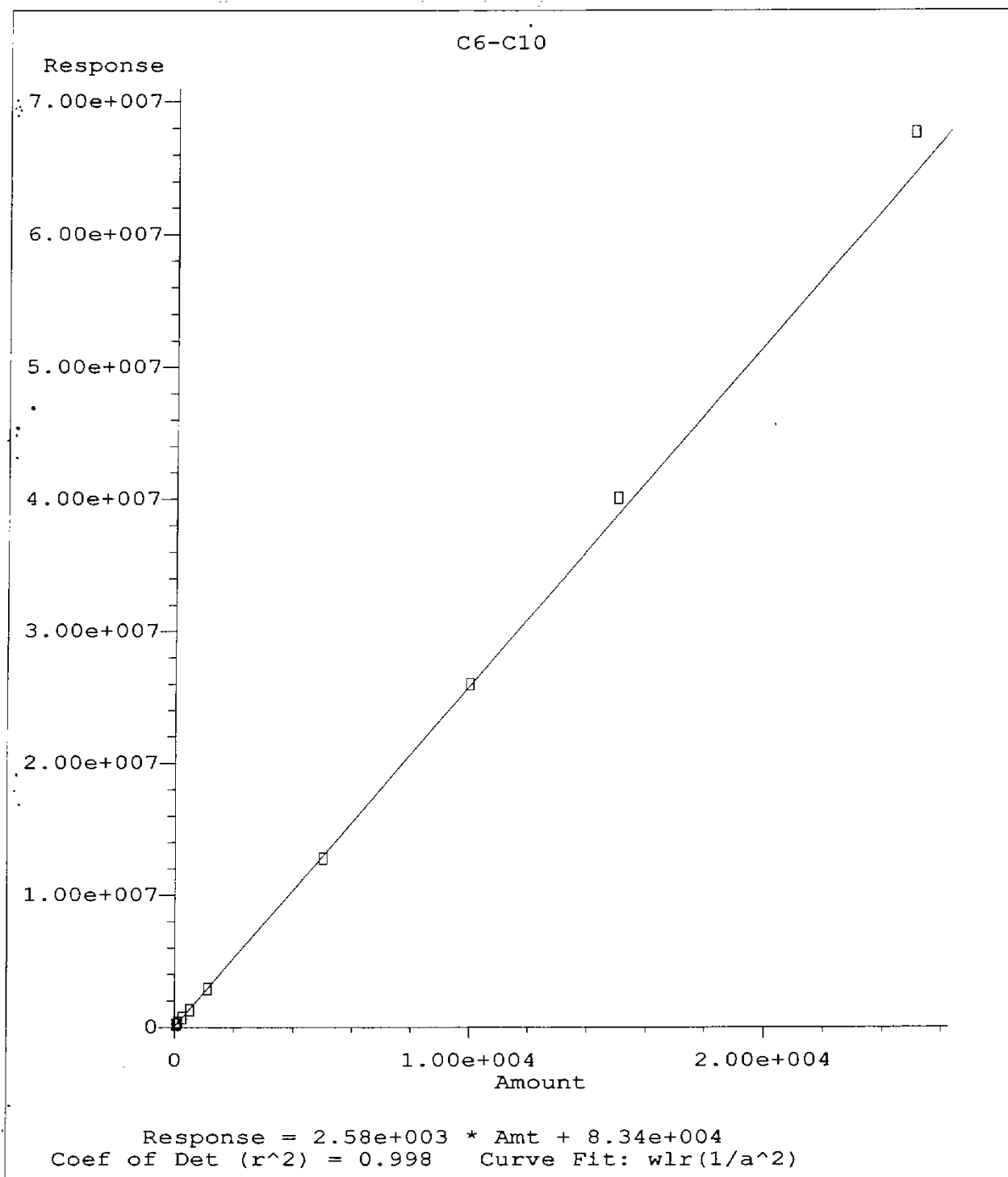
Gasoline By NWTPH-G

Response

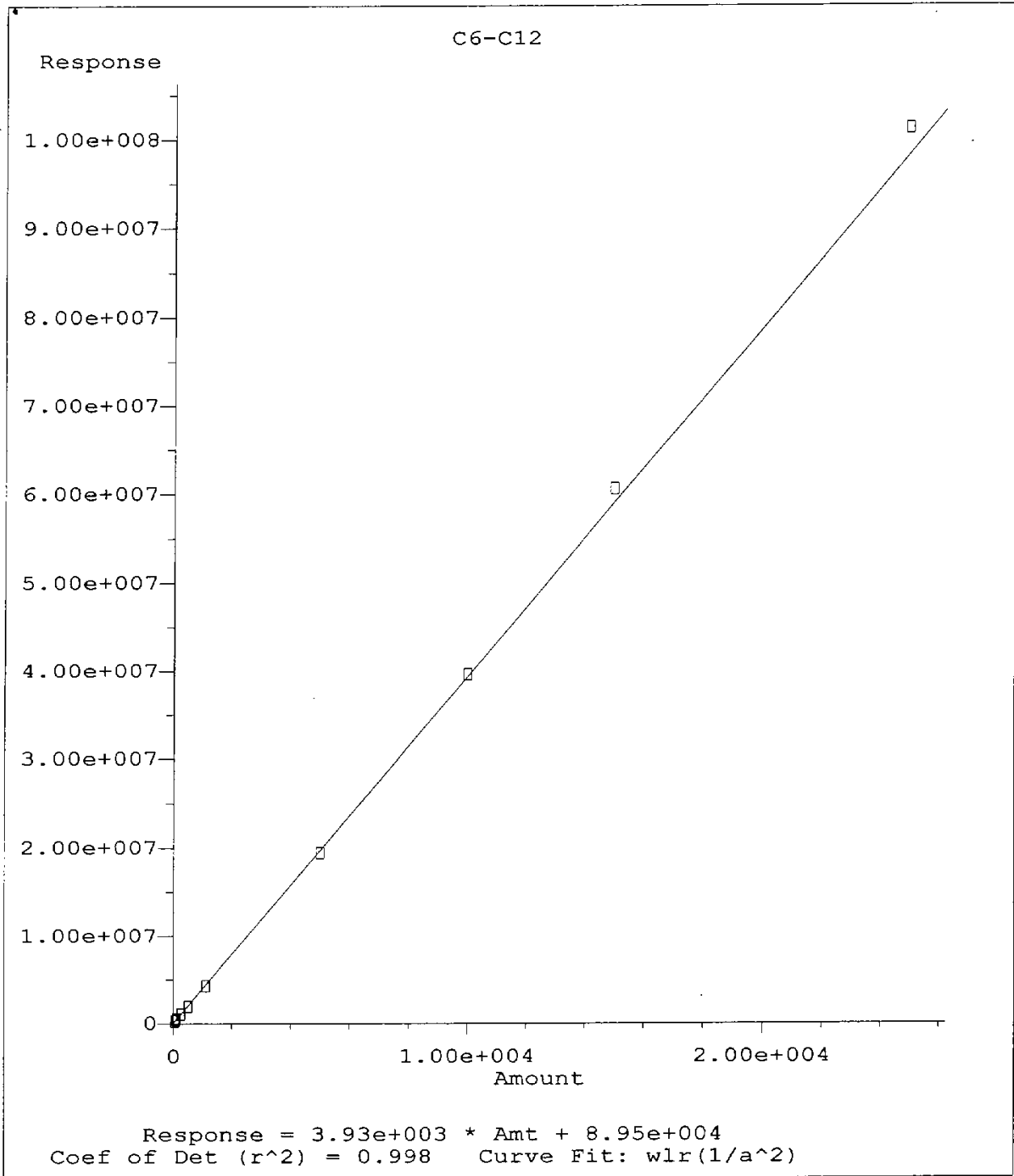


Response = $3.26e+003 * Amt + 6.85e+004$
Coef of Det (r^2) = 0.998 Curve Fit: wlr(1/a^2)

Method Name: I:\2\METHODS\GAS_08172006.M
Calibration Table Last Updated: Fri Aug 18 09:45:46 2006



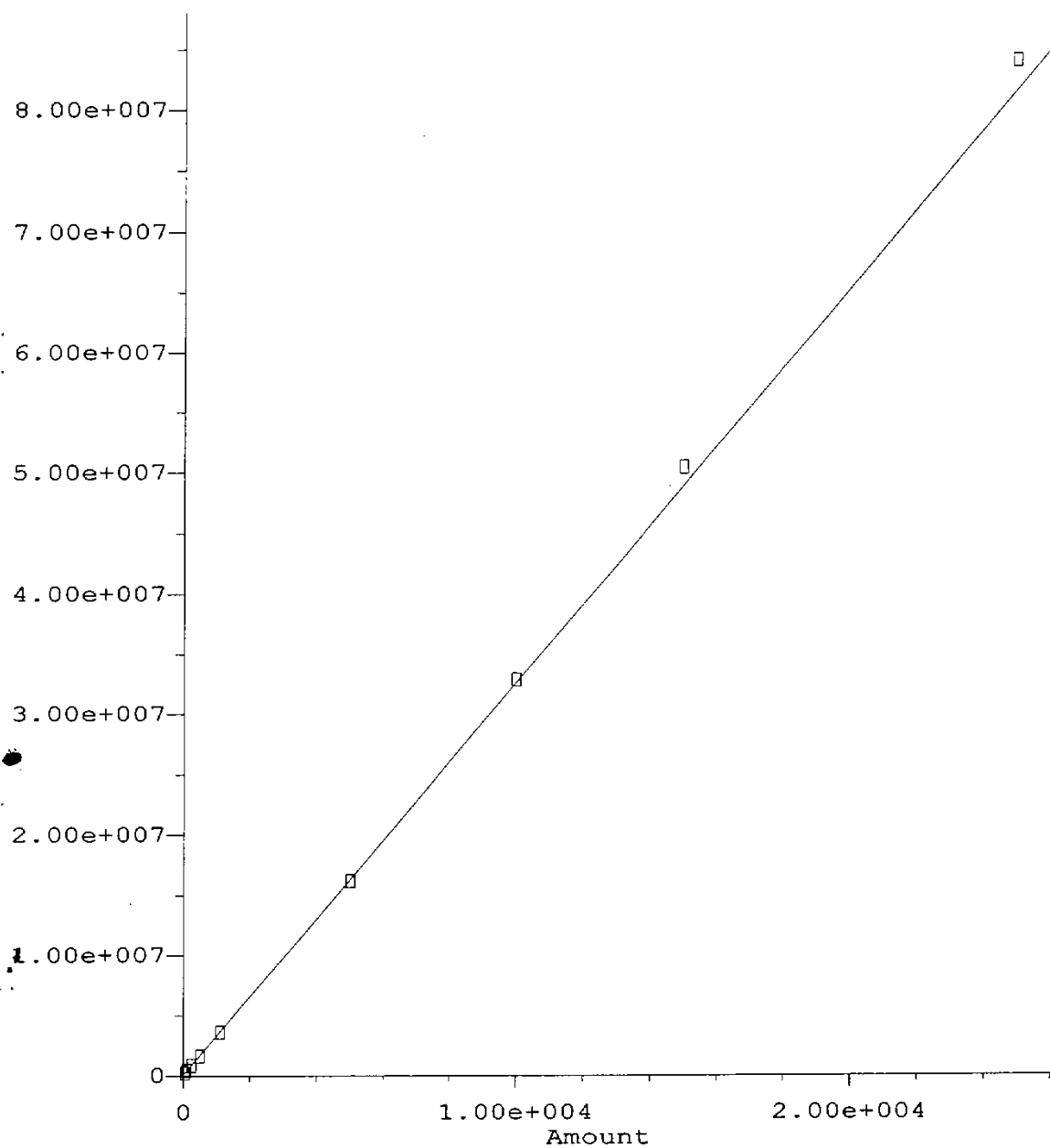
Method Name: I:\2\METHODS\GAS_08172006.M
 Calibration Table Last Updated: Fri Aug 18 09:45:46 2006



Method Name: I:\2\METHODS\GAS_08172006.M
 Calibration Table Last Updated: Fri Aug 18 09:45:46 2006

CA 8015B

Response



Response = 3.25e+003 * Amt + 9.30e+004
Coef of Det (r^2) = 0.999 Curve Fit: wlr(1/a^2)

Method Name: I:\2\METHODS\GAS_08172006.M
Calibration Table Last Updated: Fri Aug 18 09:45:46 2006

CONTINUING CALIBRATION

Sequence Log

Directory : x:\2\DATA\08312006

#	Filename	Sample Name	Date/Time
1	cs166885.d	rt std	08/31/06 08:19
2	cs166886.d	1100 gro ccal	08/31/06 08:42
3	cs166887.d	MB 580-10448/1-A	08/31/06 09:56
4	cs166890.d	LCS 580-10448/4-A	08/31/06 11:03
5	cs166891.d	LCSD 580-10448/5-A	08/31/06 11:26
6	cs166892.d	580-3406-A-2-A	08/31/06 12:24
7	cs166894.d	580-3406-A-4-A	08/31/06 13:09
8	cs166895.d	580-3406-B-4-A MS	08/31/06 13:32
9	cs166897.d	580-3405-A-3-A	08/31/06 14:16
10	cs166898.d	580-3405-C-3-B DU	08/31/06 14:39
11	cs166900.d	580-3407-C-2-A	08/31/06 15:24
12	cs166901.d	580-3407-B-6-A	08/31/06 15:46
13	cs166902.d	580-3407-C-13-A	08/31/06 16:09
14	cs166903.d	580-3407-A-9-A 1:50	08/31/06 16:31
15	cs166904.d	580-3407-B-9-A DU 1:50	08/31/06 16:54
16	cs166905.d	580-3407-C-11-A 1:215	08/31/06 17:16
17	cs166909.d	MB	08/31/06 18:46
18	cs166912.d	LCS	08/31/06 19:54
19	cs166913.d	LCSD	08/31/06 20:16
20	cs166915.d	580-3389-A-2	08/31/06 21:01
21	cs166916.d	580-3393-A-16	08/31/06 21:23
22	cs166917.d	580-3425-C-25	08/31/06 21:46
23	cs166918.d	580-3451-C-9	08/31/06 22:08
24	cs166919.d	580-3377-A-2	08/31/06 22:31
25	cs166920.d	580-3377-D-1	08/31/06 22:53
26	cs166921.d	580-3407-E-16 1:10	08/31/06 23:16
27	cs166923.d	1100 gro ccal	09/01/06 00:01

Data File : I:\2\DATA\08312006\CS166885.D
 Acq On : 8-31-2006 08:19:46 AM
 Sample : rt std
 Misc : 1369-36-3
 IntFile : events.e

Vial: 3
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Quant Time: Aug 31 08:43:17 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Fri Aug 18 09:45:46 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX.M

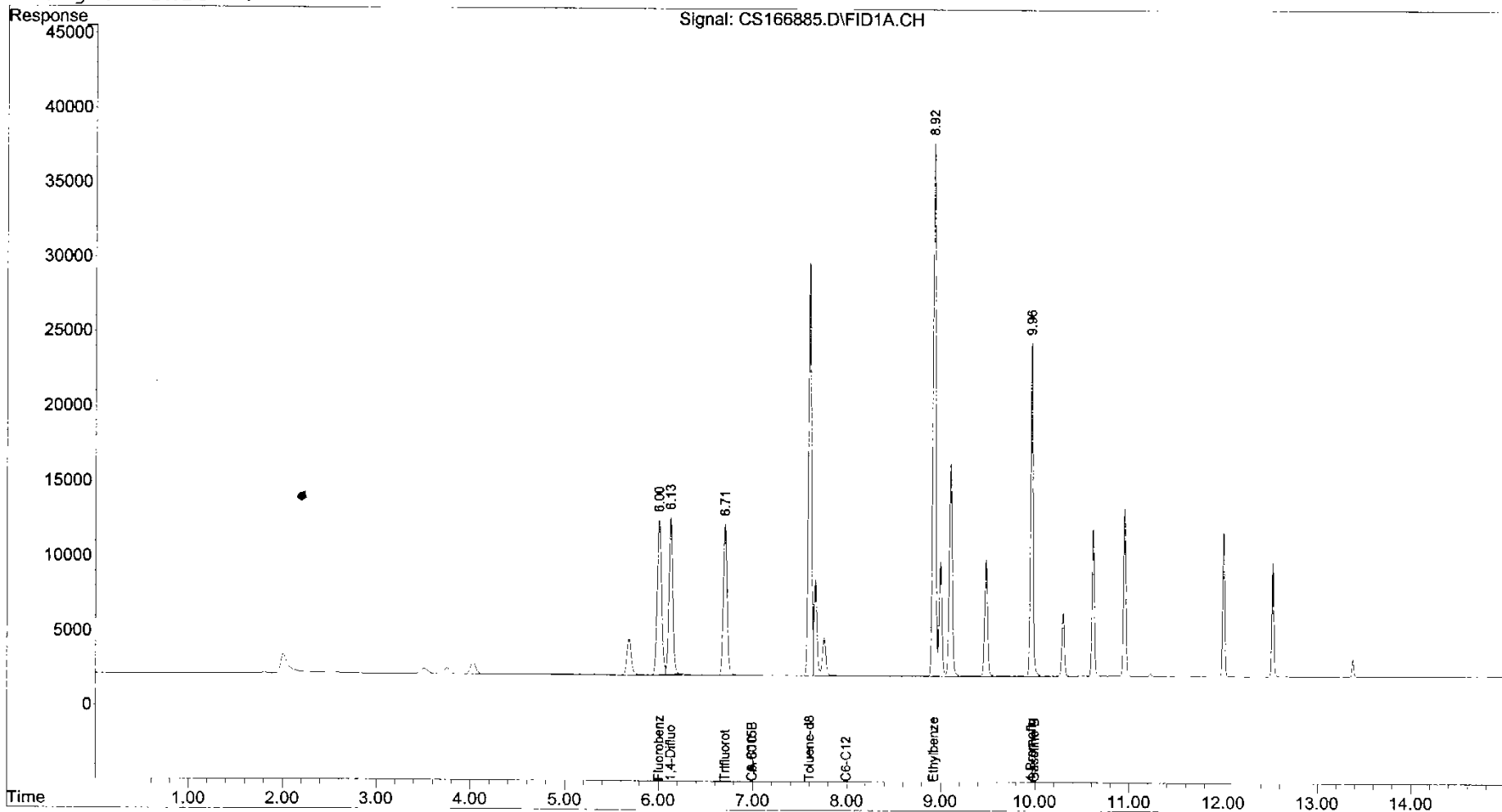
Volume Inj. :
 Signal Phase :
 Signal Info :

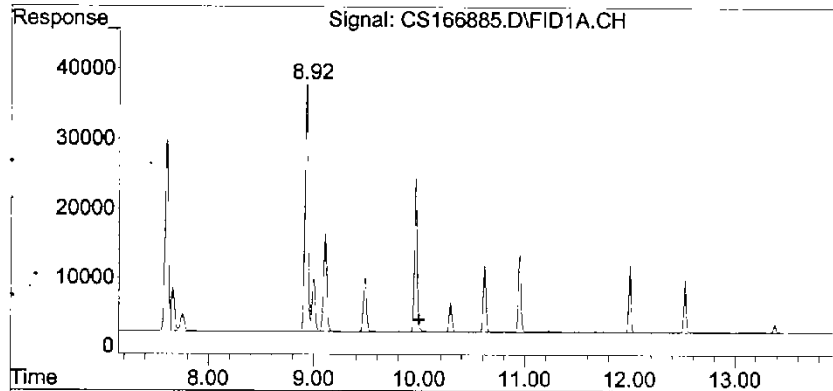
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 1,4-Difluorobenzene (I)	6.13	297921	66.273 ug/L
Spiked Amount 100.000		Recovery =	66.27%
2) S Fluorobenzene (Surr)	6.01	332676	99.306 ug/L
Spiked Amount 100.000		Recovery =	99.31%
3) S Trifluorotoluene (Surr)	6.71	281514	91.023 ug/L
Spiked Amount 100.000 Range 69 - 120		Recovery =	91.02%
4) S Toluene-d8 (Surr)	7.60	610704	108.578 ug/L
Spiked Amount 100.000		Recovery =	108.58%
5) S Ethylbenzene-d10 (Surr)	8.93	735997	107.216 ug/L
Spiked Amount 100.000		Recovery =	107.22%
6) S 4-Bromofluorobenzene (Surr)	9.96	415068	100.498 ug/L
Spiked Amount 100.000 Range 70 - 120		Recovery =	100.50%
Target Compounds			
7) H Gasoline By NWTPH-G	10.00	1716639	506.117 ug/L
8) H C6-C10	7.00	1054682	376.568 ug/L
9) H C6-C12	8.00	1720910	415.165 ug/L
10) H CA 8015B	7.00	1359101	389.196 ug/L

Data File : I:\2\DATA\08312006\CS166885.D Vial: 3
 Acq On : 8-31-2006 08:19:46 AM Operator: jc
 Sample : rt std Inst : Instrumen
 Misc : 1369-36-3 Multiplic: 1.00
 IntFile : events.e
 Quant Time: Aug 31 8:43 2006 Quant Results File: GAS_08172006.RES

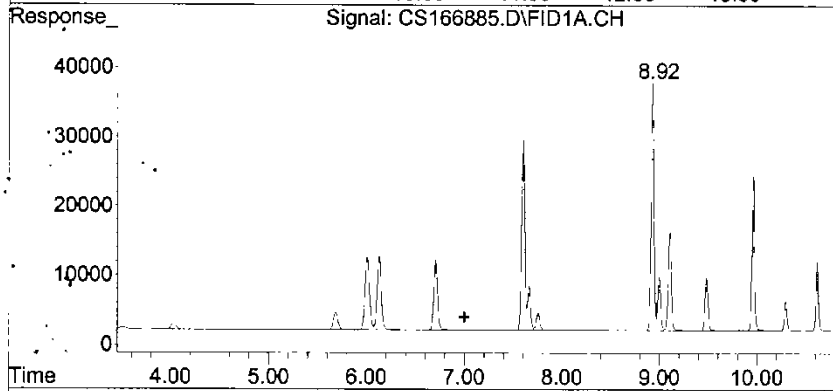
Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Fri Aug 18 09:45:46 2006
 Response via : Multiple Level Calibration
 DataAcq Meth : GBTEX.M

Volume Inj. :
 Signal Phase :
 Signal Info :

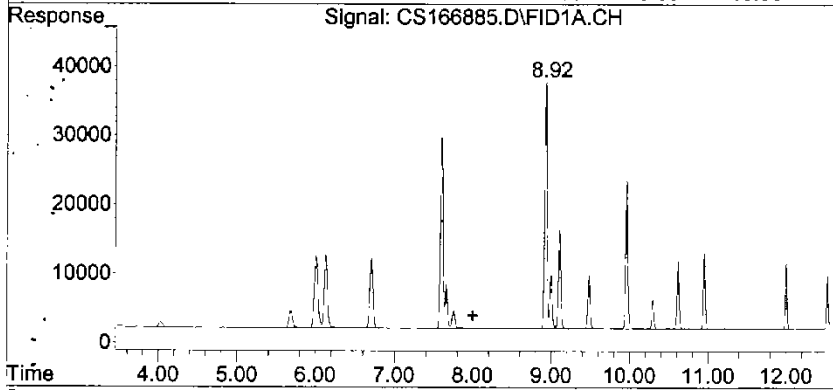




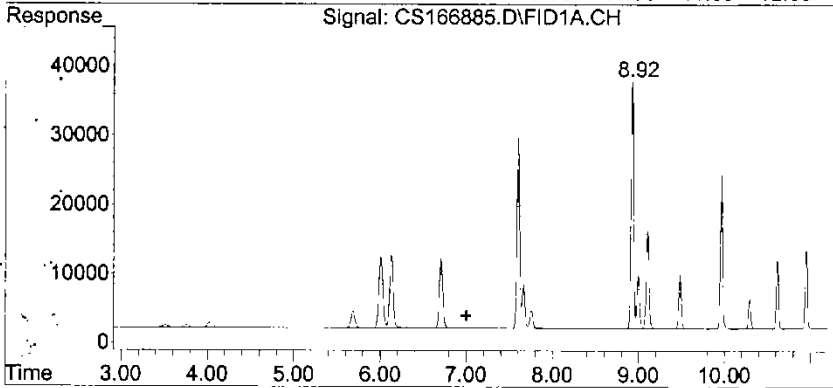
#7 Gasoline By NWTPH-G
 R.T.: 10.000 min
 Delta R.T.: 0.000 min
 Response: 1716639
 Conc: 506.12 ug/L m



#8 C6-C10
 R.T.: 7.000 min
 Delta R.T.: 0.000 min
 Response: 1054682
 Conc: 376.57 ug/L m



#9 C6-C12
 R.T.: 8.000 min
 Delta R.T.: 0.000 min
 Response: 1720910
 Conc: 415.17 ug/L m



#10 CA 8015B
 R.T.: 7.000 min
 Delta R.T.: 0.000 min
 Response: 1359101
 Conc: 389.20 ug/L m

Data File : I:\2\DATA\08312006\CS166886.D Vial: 4
 Acq On : 8-31-2006 08:42:18 AM Operator: jc
 Sample : 1100 gro ccal Inst : Instrumen
 Misc : 1369-36-4 Multiplr: 1.00
 IntFile : events.e
 Quant Time: Aug 31 09:03:04 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Fri Aug 18 09:45:46 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 1,4-Difluorobenzene (I)	6.13	319308	71.030 ug/L
Spiked Amount 100.000		Recovery =	71.03%
2) S Fluorobenzene (Surr)	6.01	356420	104.738 ug/L
Spiked Amount 100.000		Recovery =	104.74%
3) S Trifluorotoluene (Surr)	6.71	316450	99.575 ug/L
Spiked Amount 100.000 Range 69 - 120		Recovery =	99.58%
4) S Toluene-d8 (Surr)	7.60	591040	105.082 ug/L
Spiked Amount 100.000		Recovery =	105.08%
5) S Ethylbenzene-d10 (Surr)	8.93	741445	108.009 ug/L
Spiked Amount 100.000		Recovery =	108.01%
6) S 4-Bromofluorobenzene (Surr)	9.96	429748	103.212 ug/L
Spiked Amount 100.000 Range 70 - 120		Recovery =	103.21%
Target Compounds			
7) H Gasoline By NWTPH-G	10.00	3692921	1112.985 ug/L
8) H C6-C10	7.00	2998737	1130.300 ug/L
9) H C6-C12	8.00	4495309	1121.201 ug/L
10) H CA 8015B	7.00	3772557	1131.102 ug/L

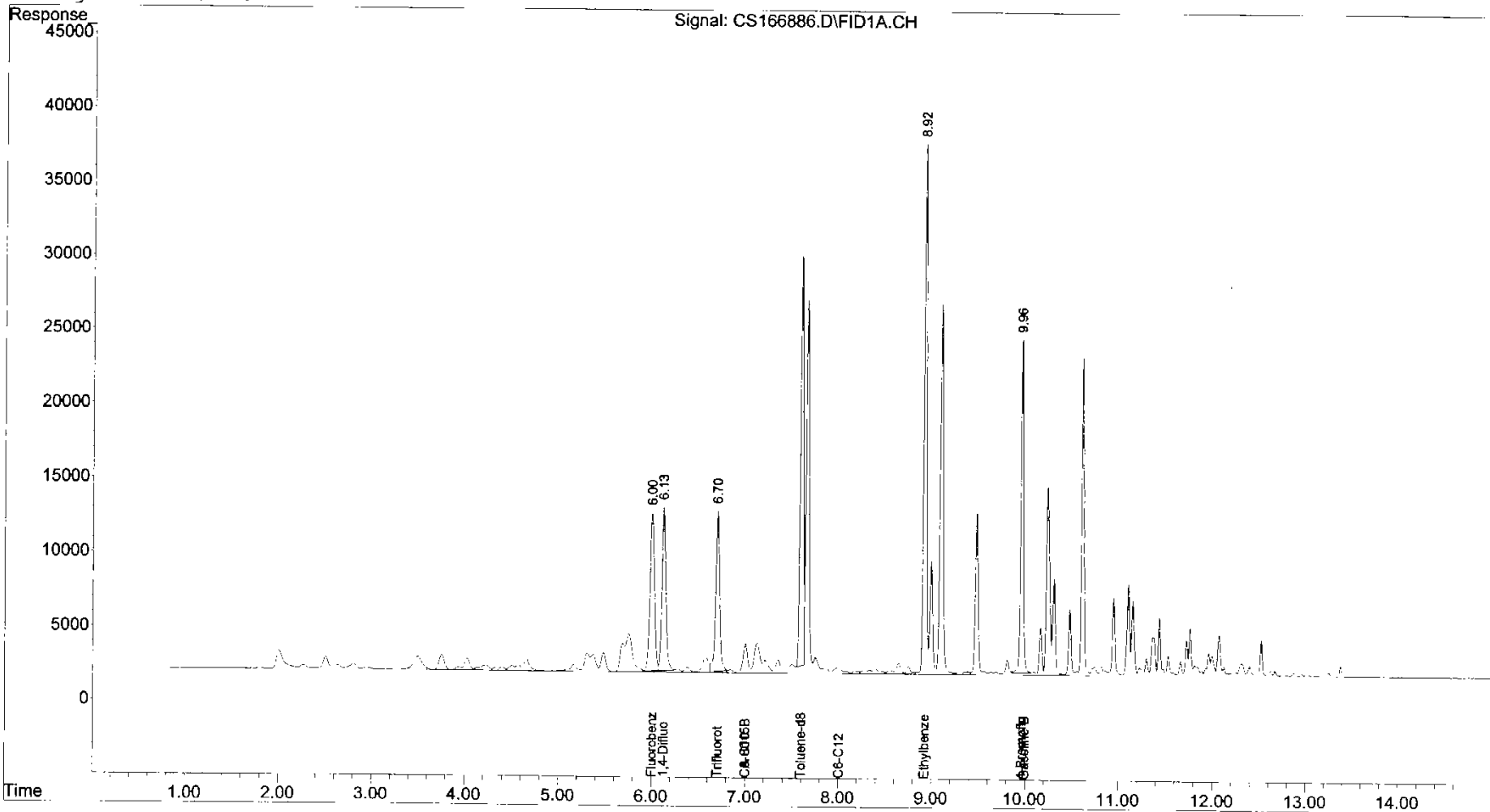
Data File : I:\2\DATA\08312006\CS166886.D
Acq On : 8-31-2006 08:42:18 AM
Sample : 1100 gro.ccal
Misc : 1369-36-4
IntFile : events.e
Quant Time: Aug 31 9:03 2006

Vial: 4
Operator: jc
Inst : Instrumen
Multiplr: 1.00

Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
Title : GRO by 8015 Modified 08-17-2006
Last Update : Fri Aug 18 09:45:46 2006
Response via : Multiple Level Calibration
DataAcq Meth : GBTEX.M

Volume Inj. :
Signal Phase :
Signal Info :



Page 255 of 383

Evaluate Continuing Calibration Report

Data File : I:\2\DATA\08312006\CS166886.D
 Acq On : 8-31-2006 08:42:18 AM
 Sample : 1100 gro ccal
 Misc : 1369-36-4
 IntFile : events.e

Vial: 4
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Thu Aug 31 09:04:54 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 S	1,4-Difluorobenzene (I)	100.000	71.030	29.0#	103	0.00
2 S	Fluorobenzene (Surr)	100.000	104.738	-4.7	110	0.00
3 S	Trifluorotoluene (Surr)	100.000	99.575	0.4	102	0.00
4 S	Toluene-d8 (Surr)	100.000	105.082	-5.1	109	0.00
5 S	Ethylbenzene-d10 (Surr)	100.000	108.009	-8.0	109	0.00
6 S	4-Bromofluorobenzene (Surr)	100.000	103.212	-3.2	109	0.00
7 H	Gasoline By NWTPH-G	1100.000	1112.985	-1.2	105	0.00
8 H	C6-C10	1100.000	1130.300	-2.8	104	0.00
9 H	C6-C12	1100.000	1121.201	-1.9	105	0.00
10 H	CA 8015B	1100.000	1131.102	-2.8	104	0.00

Data File : I:\2\DATA\08312006\CS166923.D Vial: 41
 Acq On : 01 Sep 2006 12:01 am Operator: jc
 Sample : 1100 gro ccal Inst : Instrumen
 Misc : 1369-36-4 Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 01 14:19:22 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Thu Aug 31 09:04:54 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX.M

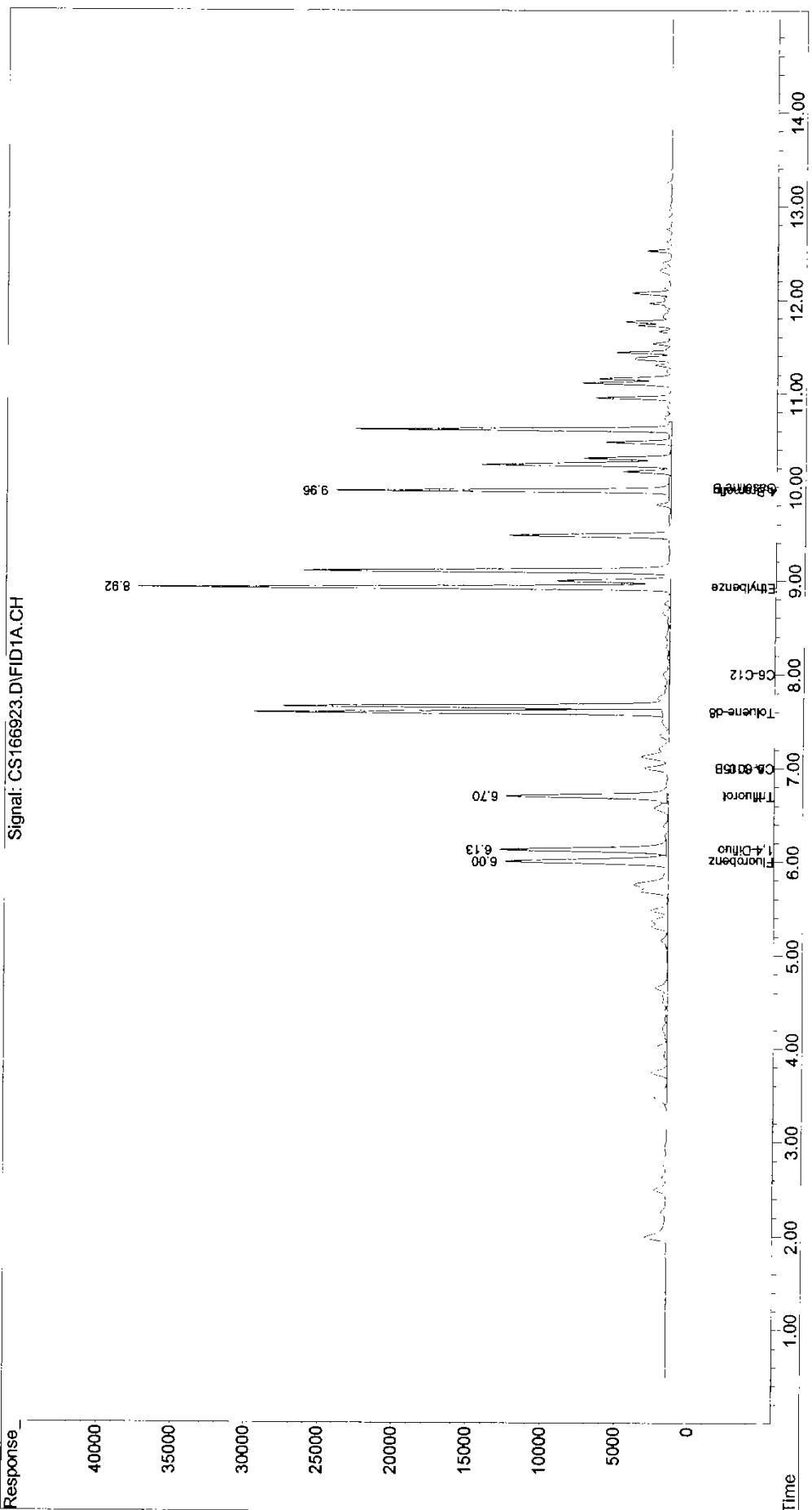
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 1,4-Difluorobenzene (I)	6.13	327075	72.758 ug/L
Spiked Amount 100.000		Recovery =	72.76%
2) S Fluorobenzene (Surr)	6.00	358971	105.313 ug/L
Spiked Amount 100.000		Recovery =	105.31%
3) S Trifluorotoluene (Surr)	6.71	316047	99.478 ug/L
Spiked Amount 100.000 Range 69 - 120		Recovery =	99.48%
4) S Toluene-d8 (Surr)	7.60	597530	106.236 ug/L
Spiked Amount 100.000		Recovery =	106.24%
5) S Ethylbenzene-d10 (Surr)	8.93	746739	108.781 ug/L
Spiked Amount 100.000		Recovery =	108.78%
6) S 4-Bromofluorobenzene (Surr)	9.96	425083	102.354 ug/L
Spiked Amount 100.000 Range 70 - 120		Recovery =	102.35%
Target Compounds			
7) H Gasoline By NWTPH-G	10.00	3498861	1053.394 ug/L
8) H C6-C10	7.00	2923869	1101.273 ug/L
9) H C6-C12	8.00	4297403	1070.838 ug/L
10) H CA 8015B	7.00	3660877	1096.772 ug/L

Data File : I:\2\DATA\08312006\CS166923.D
 Acq On : 01 Sep 2006 12:01 am
 Sample : 1100 gro ccal.
 Misc : 1369-36-4
 IntFile : events.e
 Quant Time: Sep 1 14:19 2006 Quant Results File: GAS_08172006.RES
 Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Thu Aug 31 09:04:54 2006
 Response via : Multiple Level Calibration
 DataAcq Meth : GBTEX.M

Vial: 41
 Operator: jc
 Inst : Instrument
 Multiplr: 1.00

Volume Inj. :
 Signal Phase :
 Signal Info :



Evaluate Continuing Calibration Report

Data File : I:\2\DATA\08312006\CS166923.D
 Acq On : 01 Sep 2006 12:01 am
 Sample : 1100 gro ccal
 Misc : 1369-36-4
 IntFile : events.e

Vial: 41
 Operator: jc
 Inst : Instrumen
 Multiplr: 1.00

Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Thu Aug 31 09:04:54 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 15% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 S 1,4-Difluorobenzene (I)	100.000	72.758	27.2#	106	0.00
2 S Fluorobenzene (Surr)	100.000	105.313	-5.3	111	0.00
3 S Trifluorotoluene (Surr)	100.000	99.478	0.5	102	0.00
4 S Toluene-d8 (Surr)	100.000	106.236	-6.2	110	0.00
5 S Ethylbenzene-d10 (Surr)	100.000	108.781	-8.8	109	0.00
6 S 4-Bromofluorobenzene (Surr)	100.000	102.354	-2.4	108	0.00
7 H Gasoline By NWTPH-G	1100.000	1053.394	4.2	100	0.00
8 H C6-C10	1100.000	1101.273	-0.1	101	0.00
9 H C6-C12	1100.000	1070.838	2.7	100	0.00
10 H CA 8015B	1100.000	1096.772	0.3	101	0.00

METHOD BLANK

Data File : I:\2\DATA\08312006\CS166909.D Vial: 27
 Acq On : 8-31-2006 06:46:32 PM Operator: jc
 Sample : MB Inst : Instrumen
 Misc : water BT=Sea003083106f1 Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 05 10:14:54 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Thu Aug 31 09:04:54 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 1,4-Difluorobenzene (I)	6.13	306242	68.123 ug/L
Spiked Amount 100.000		Recovery =	68.12%
2) S Fluorobenzene (Surr)	6.00	340954	101.217 ug/L
Spiked Amount 100.000		Recovery =	101.22%
3) S Trifluorotoluene (Surr)	6.71	294874	94.344 ug/L
Spiked Amount 100.000 Range 69 - 120		Recovery =	94.34%
4) S Toluene-d8 (Surr)	7.60	626413	111.371 ug/L
Spiked Amount 100.000		Recovery =	111.37%
5) S Ethylbenzene-d10 (Surr)	8.93	750165	109.280 ug/L
Spiked Amount 100.000		Recovery =	109.28%
6) S 4-Bromofluorobenzene (Surr)	9.96	419714	101.361 ug/L
Spiked Amount 100.000 Range 70 - 120		Recovery =	101.36%
Target Compounds			
7) H Gasoline By NWTPH-G	10.00	108154	12.190 ug/L
9) H C6-C12	8.00	107443	<MDL ug/L

Data File : I:\2\DATA\08312006\CS166909.D

Acq On : 8-31-2006 06:46:32 PM

Sample : MB

Misc : water BT-Sea003083106f1

IntFile : events.e

Quant Time: Sep 5 10:14 2006 Quant Results File: GAS_08172006.RES

Vial: 27

Operator: jc

Inst : Instrumen

Multiplr: 1.00

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)

Title : GRO by 8015 Modified 08-17-2006

Last Update : Thu Aug 31 09:04:54 2006

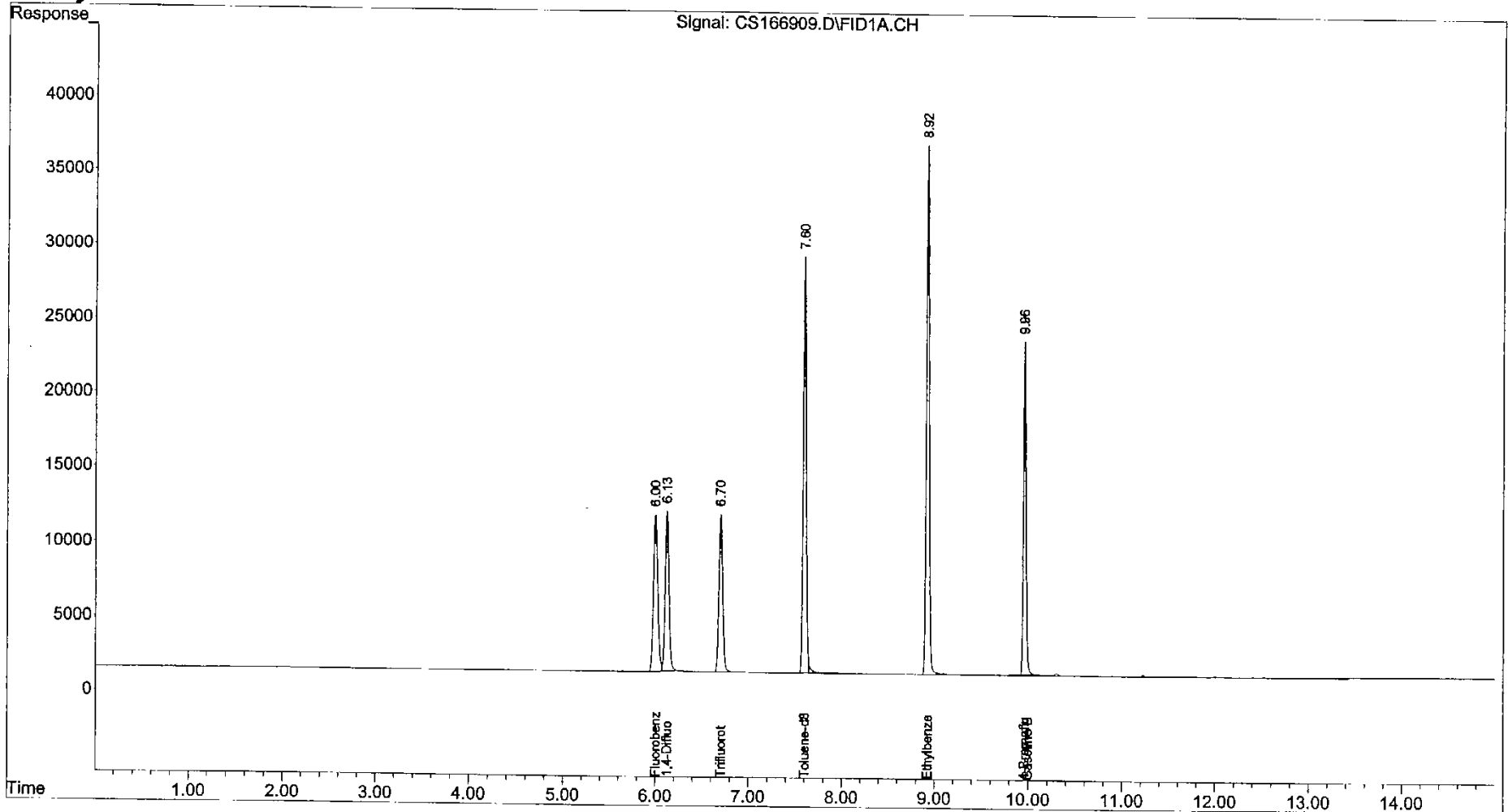
Response via : Multiple Level Calibration

DataAcq Meth : GBTEX.M

Volume Inj. :

Signal Phase :

Signal Info :



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BLANK SPIKE

Data File : I:\2\DATA\08312006\CS166912.D Vial: 30
 Acq On : 8-31-2006 07:54:06 PM Operator: jc
 Sample : LCS Inst : Instrumen
 Misc : water BT=Sea003083106f1 Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 05 10:15:08 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Thu Aug 31 09:04:54 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX.M

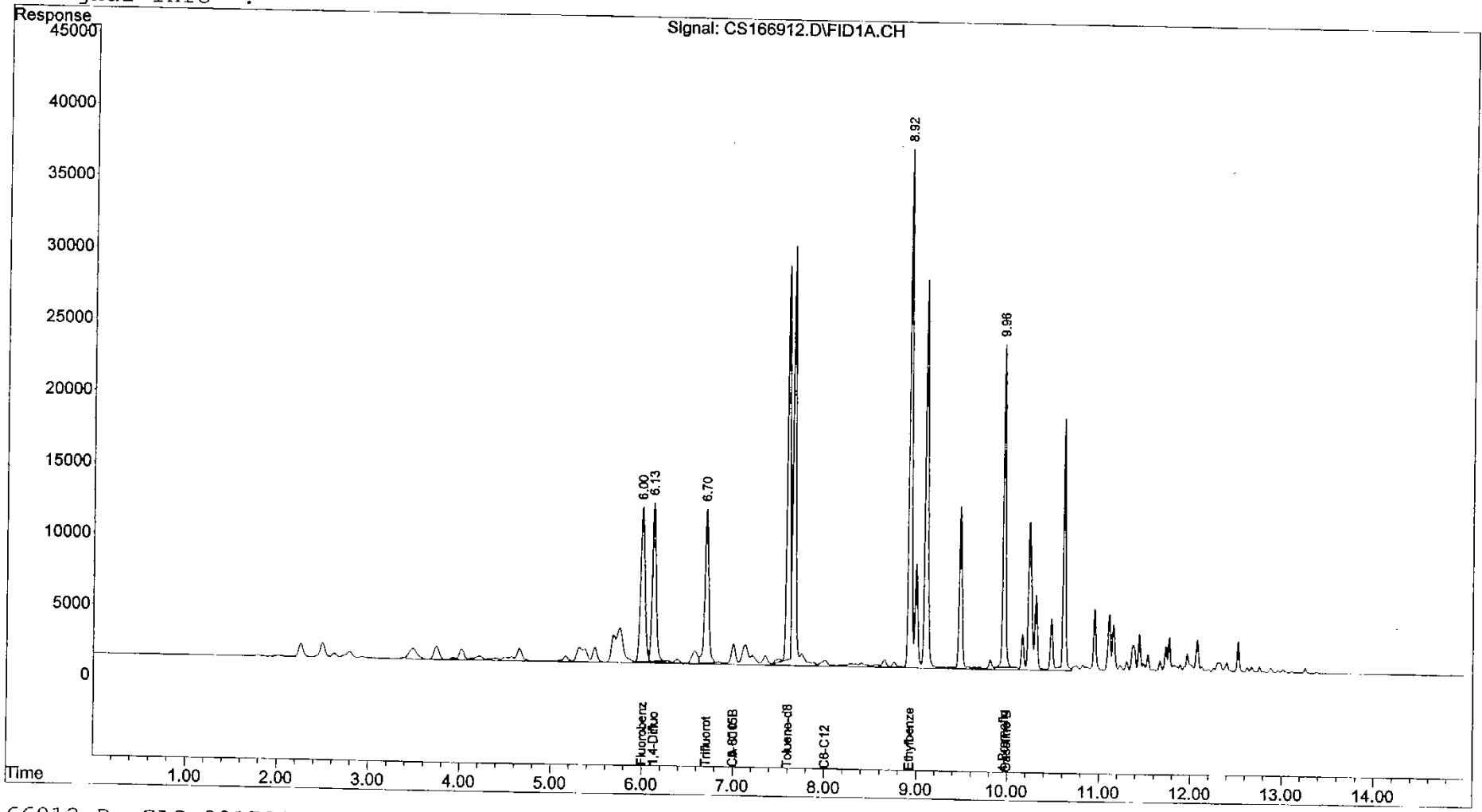
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S 1,4-Difluorobenzene (I)	6.13	322349	71.707 ug/L
Spiked Amount 100.000		Recovery =	71.71%
2) S Fluorobenzene (Surr)	6.00	359275	105.381 ug/L
Spiked Amount 100.000		Recovery =	105.38%
3) S Trifluorotoluene (Surr)	6.71	317867	99.913 ug/L
Spiked Amount 100.000 Range 69 - 120		Recovery =	99.91%
4) S Toluene-d8 (Surr)	7.60	609510	108.366 ug/L
Spiked Amount 100.000		Recovery =	108.37%
5) S Ethylbenzene-d10 (Surr)	8.93	748719	109.069 ug/L
Spiked Amount 100.000		Recovery =	109.07%
6) S 4-Bromofluorobenzene (Surr)	9.96	426762	102.664 ug/L
Spiked Amount 100.000 Range 70 - 120		Recovery =	102.66%
Target Compounds			
7) H Gasoline By NWTPH-G	10.00	3325153	1000.053 ug/L
8) H C6-C10	7.00	2865671	1078.709 ug/L
9) H C6-C12	8.00	3996744	994.325 ug/L
10) H CA 8015B	7.00	3500353	1047.426 ug/L

Data File : I:\2\DATA\08312006\CS166912.D Vial: 30
Acq On : 8-31-2006 07:54:06 PM Operator: jc
Sample : LCS Inst : Instrumen
Misc : water BT=Sea003083106f1 Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 5 10:15 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
Title : GRO by 8015 Modified 08-17-2006
Last Update : Thu Aug 31 09:04:54 2006
Response via : Multiple Level Calibration
DataAcq Meth : GBTEX.M

Volume Inj. :
Signal Phase :
Signal Info :



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Data File : I:\2\DATA\08312006\CS166913.D Vial: 31
 Acq On : 8-31-2006 08:16:35 PM Operator: jc
 Sample : LCSD Inst : Instrumen
 Misc : water BT=Sea003083106f1 Multiplr: 1.00
 IntFile : events.e
 Quant Time: Sep 05 10:15:18 2006 Quant Results File: GAS_08172006.RES

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)
 Title : GRO by 8015 Modified 08-17-2006
 Last Update : Thu Aug 31 09:04:54 2006
 Response via : Initial Calibration
 DataAcq Meth : GBTEX.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S : 1,4-Difluorobenzene (I)	6.13	323093	71.872 ug/L
Spiked Amount 100.000		Recovery =	71.87%
2) S : Fluorobenzene (Surr)	6.00	359596	105.453 ug/L
Spiked Amount 100.000		Recovery =	105.45%
3) S : Trifluorotoluene (Surr)	6.71	304633	96.730 ug/L
Spiked Amount 100.000 Range 69 - 120		Recovery =	96.73%
4) S : Toluene-d8 (Surr)	7.60	597600	106.249 ug/L
Spiked Amount 100.000		Recovery =	106.25%
5) S : Ethylbenzene-d10 (Surr)	8.93	743983	108.379 ug/L
Spiked Amount 100.000		Recovery =	108.38%
6) S : 4-Bromofluorobenzene (Surr)	9.96	425624	102.454 ug/L
Spiked Amount 100.000 Range 70 - 120		Recovery =	102.45%
Target Compounds			
7) H : Gasoline By NWTPH-G	10.00	3225533	969.462 ug/L
8) H : C6-C10	7.00	2780414	1045.654 ug/L
9) H : C6-C12	8.00	3900571	969.851 ug/L
10) H : CA 8015B	7.00	3401538	1017.050 ug/L

Data File : I:\2\DATA\08312006\CS166913.D

Acq On : 8-31-2006 08:16:35 PM

Sample : LCSD

Misc : water BT=Sea003083106f1

IntFile : events.e

Quant Time: Sep 5 10:15 2006 Quant Results File: GAS_08172006.RES

Vial: 31

Operator: jc

Inst : Instrumen

Multipir: 1.00

Quant Method : I:\2\METHODS\GAS_08172006.M (Chemstation Integrator)

Title : GRO by 8015 Modified 08-17-2006

Last Update : Thu Aug 31 09:04:54 2006

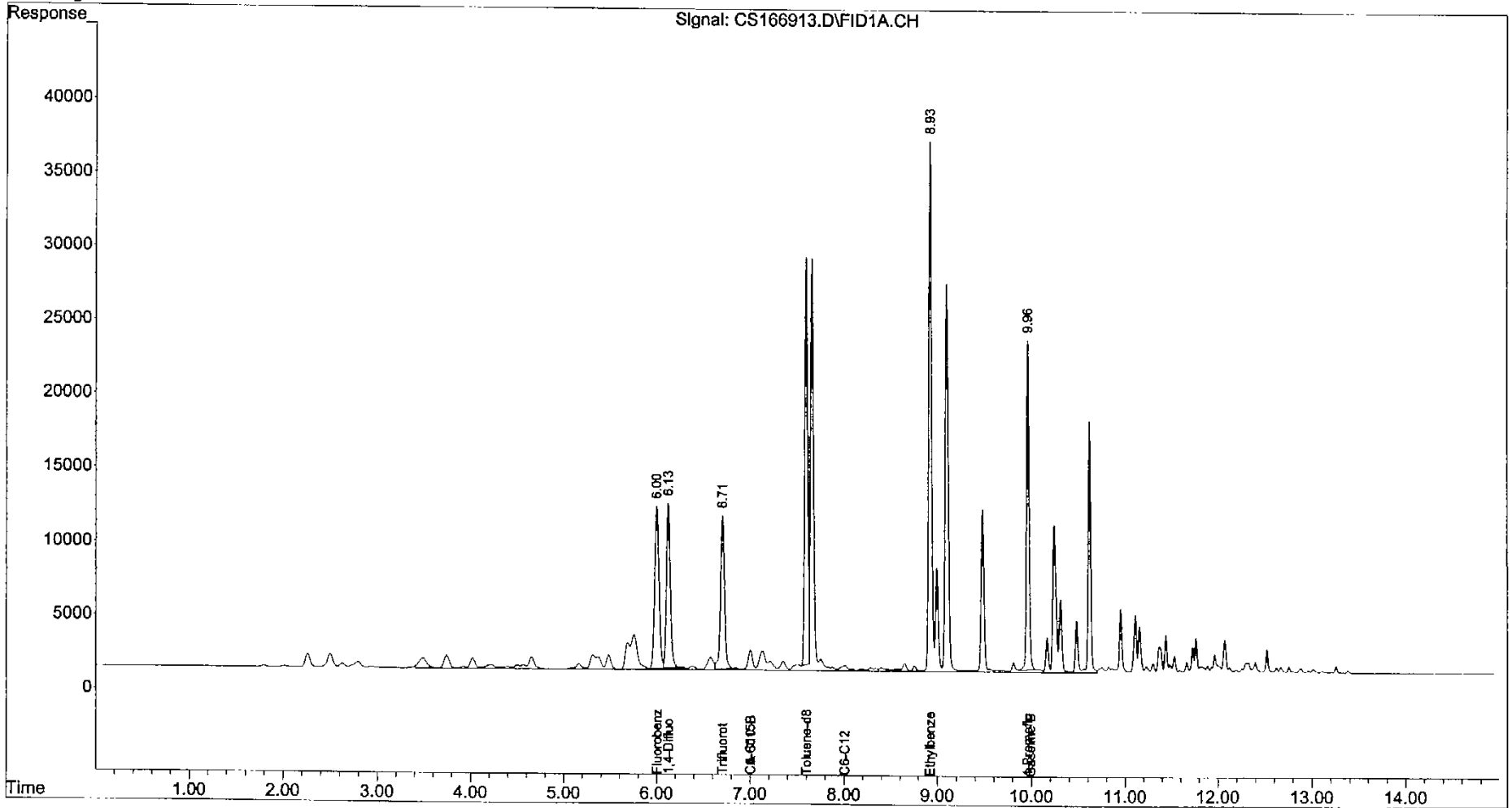
Response via : Multiple Level Calibration

DataAcq Meth : GBTEX.M

Volume Inj. :

Signal Phase :

Signal Info :



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LABORATORY WORKSHEETS

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-10655

Batch Open: 8/31/2006 6:46:00PM

Method Code: 580-8260B-580

Batch End:

Volatile Organic Compounds by GC/MS

Input Sample Lab ID (Analytical Method)	SDG	GrossWt TareWt	InitAmnt FinAmnt	Rcvd	PHs Adj1	Adj2	Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
1 MB~580-10655/1 N/A	N/A		5 mL				N/A	N/A	N/A		
			5 mL								
2 LCS~580-10655/2 N/A	N/A		5 mL				N/A	N/A	N/A		
			5 mL								
3 LCSD~580-10655/3 N/A	N/A		5 mL				N/A	N/A	N/A		
			5 mL								
580-3389-A-2 (AK101)	N/A		5 mL				9/7/06	8_Days - R	4		
			5 mL								
580-3393-A-16 (NWTPH_Gx)	N/A		5 mL				9/1/06	5_Days - R	4		
			5 mL								
6 580-3425-C-25 (NWTPH_Gx)	N/A		5 mL				9/6/06	5_Days - R	4		
			5 mL								
7 580-3451-C-9 (NWTPH_Gx)	N/A		5 mL				9/5/06	2_Days	2		
			5 mL								
8 580-3377-A-2 (AK101)	N/A		5 mL				8/31/06	8_Days	4		
			5 mL								
9 580-3377-D-1 (AK101)	N/A		5 mL				8/31/06	8_Days	4		
			5 mL								

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Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-10655

Method Code: 580-8260B-580

Batch Open: 8/31/2006 6:46:00PM

Batch End:

Batch Notes

Batch Comment _____

Comments

Login Comments for Job 3425: Cooler-.3 TB-9.4

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Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-10655

Method Code: 580-8260B-580

Batch Open: 8/31/2006 6:46:00PM

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 580-10655/1	GBIS&SUR_00005	1 uL	5 mL		
MB 580-10655/1	TFT Spike_00002	1.25 uL	5 mL		
LCS 580-10655/2	GBIS&SUR_00005	1 uL	5 mL		
LCS 580-10655/2	GxBTEXMix2_00008	1.136 uL	5 mL		
LCS 580-10655/2	TFT Spike_00002	1.25 uL	5 mL		
LCSD 580-10655/3	GBIS&SUR_00005	1 uL	5 mL		
LCSD 580-10655/3	GxBTEXMix2_00008	1.136 uL	5 mL		
LCSD 580-10655/3	TFT Spike_00002	1.25 uL	5 mL		
580-3389-A-2	GBIS&SUR_00005	1 uL	5 mL		
580-3389-A-2	TFT Spike_00002	1.25 uL	5 mL		
580-3393-A-16	GBIS&SUR_00005	1 uL	5 mL		
580-3393-A-16	TFT Spike_00002	1.25 uL	5 mL		
580-3425-C-25	GBIS&SUR_00005	1 uL	5 mL		
580-3425-C-25	TFT Spike_00002	1.25 uL	5 mL		
580-3451-C-9	GBIS&SUR_00005	1 uL	5 mL		
580-3451-C-9	TFT Spike_00002	1.25 uL	5 mL		
580-3377-A-2	GBIS&SUR_00005	1 uL	5 mL		
580-3377-A-2	TFT Spike_00002	1.25 uL	5 mL		

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-10655

Batch Open: 8/31/2006 6:46:00PM

Method Code: 580-8260B-580

Batch End:

580-3377-D-1	GBIS&SUR_00005	1 uL	5 mL		
580-3377-D-1	TFT Spike_00002	1.25 uL	5 mL		

Other Reagents:		
Reagent	Amount/Units	Lot#:

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DIESEL AND RESIDUAL RANGE ORGANICS DATA PACKAGE

SAMPLE DATA

Data File : F:\DATA\082506_A\PL13664.D Vial: 7
 Acq On : 25 Aug 2006 12:53 Operator: RBF
 Sample : 580-3377-H-1-A Inst : SEA015
 Misc : BT=S15082506 Multiplr: 1.00
 IntFile : EVENTS.E
 Quant Time: Aug 25 14:16:41 2006 Quant Results File: AKXF050206.RES

Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
 Title : Ak102/103 Front column
 Last Update : Wed Aug 16 08:26:33 2006
 Response via : Initial Calibration
 DataAcq Meth : FACQ.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S o-terphenyl (S)	5.93	19569075	18.048 ng/ul
2) S n-triacontane-d62 (S)	8.92	14704056	20.094 ng/ulm
Target Compounds			
3) H DRO (nC10-<nC25)	5.00	698102943	684.784 ng/ul
4) H RRO (nC25-nC36)	9.50	47713993	70.440 ng/ul

Handwritten signature/initials

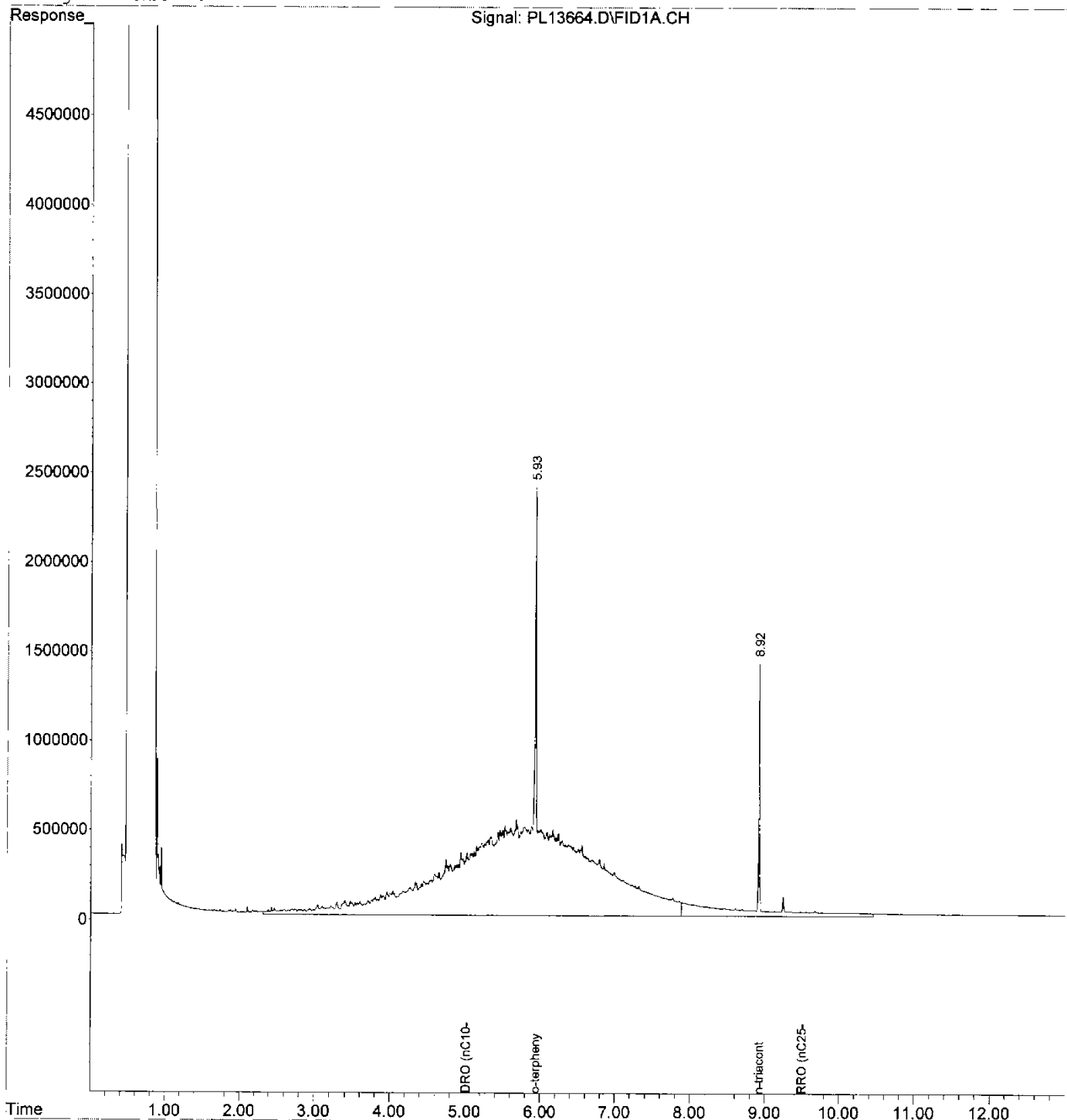
Data File : F:\DATA\082506_A\PL13664.D
Acq On : 25 Aug 2006 12:53
Sample : 580-3377-H-1-A
Misc : BT=S15082506
IntFile : EVENTS.E
Quant Time: Aug 25 14:51 2006

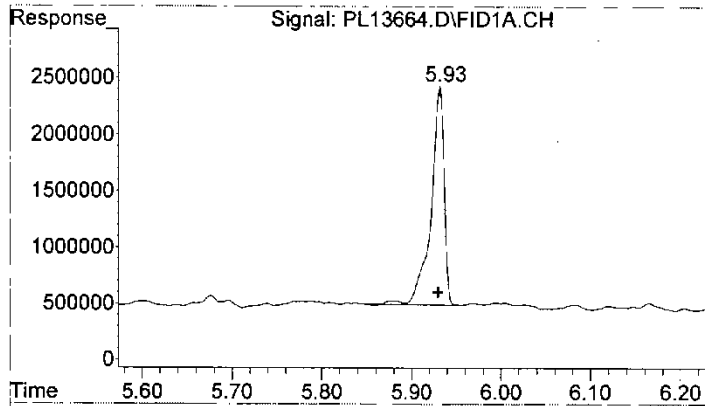
Vial: 7
Operator: RBF
Inst : SEA015
Multiplr: 1.00

Quant Results File: AKXF050206.RES

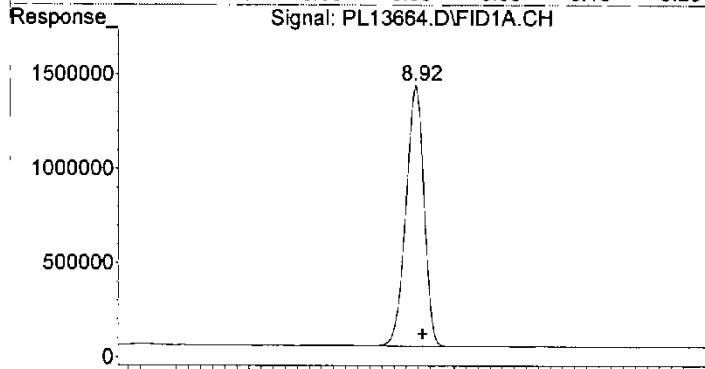
Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
Title : Ak102/103 Front column
Last Update : Wed Aug 16 08:26:33 2006
Response via : Multiple Level Calibration
DataAcq Meth : FACQ.M

Volume Inj. :
Signal Phase :
Signal Info :

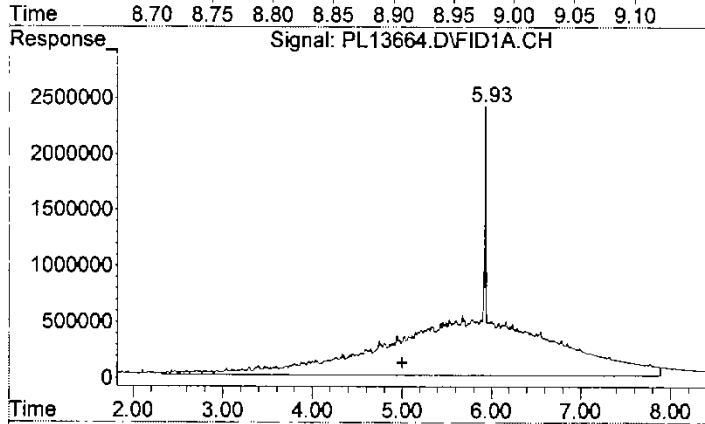




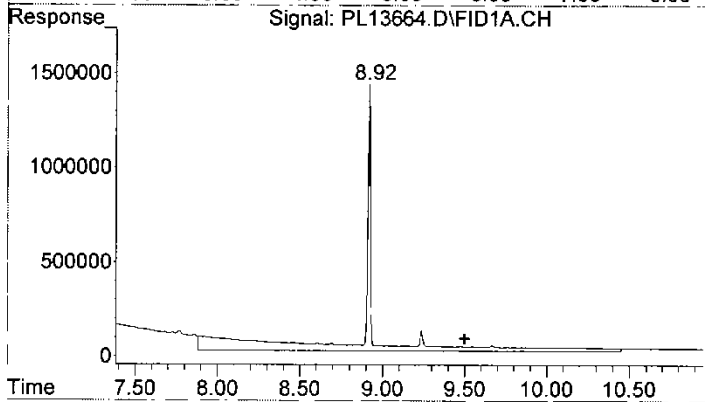
#1 o-terphenyl (S)
 R.T.: 5.932 min
 Delta R.T.: 0.002 min
 Response: 19569075
 Conc: 18.05 ng/ul



#2 n-triacontane-d62 (S)
 R.T.: 8.918 min
 Delta R.T.: -0.006 min
 Response: 14704056
 Conc: 20.09 ng/ul m



#3 DRO (nC10-<nC25)
 R.T.: 5.000 min
 Delta R.T.: 0.000 min
 Response: 698102943
 Conc: 684.78 ng/ul m



#4 RRO (nC25-nC36)
 R.T.: 9.500 min
 Delta R.T.: 0.000 min
 Response: 47713993
 Conc: 70.44 ng/ul m

Data File : F:\DATA\082506 A\PL13664.D

Vial: 7

Acq On : 25 Aug 2006 12:53

Operator: RBF

Sample : 580-3377-H-1-A

Inst : SEA015

Misc : BT=S15082506

Multiplr: 1.00

IntFile : EVENTS.E

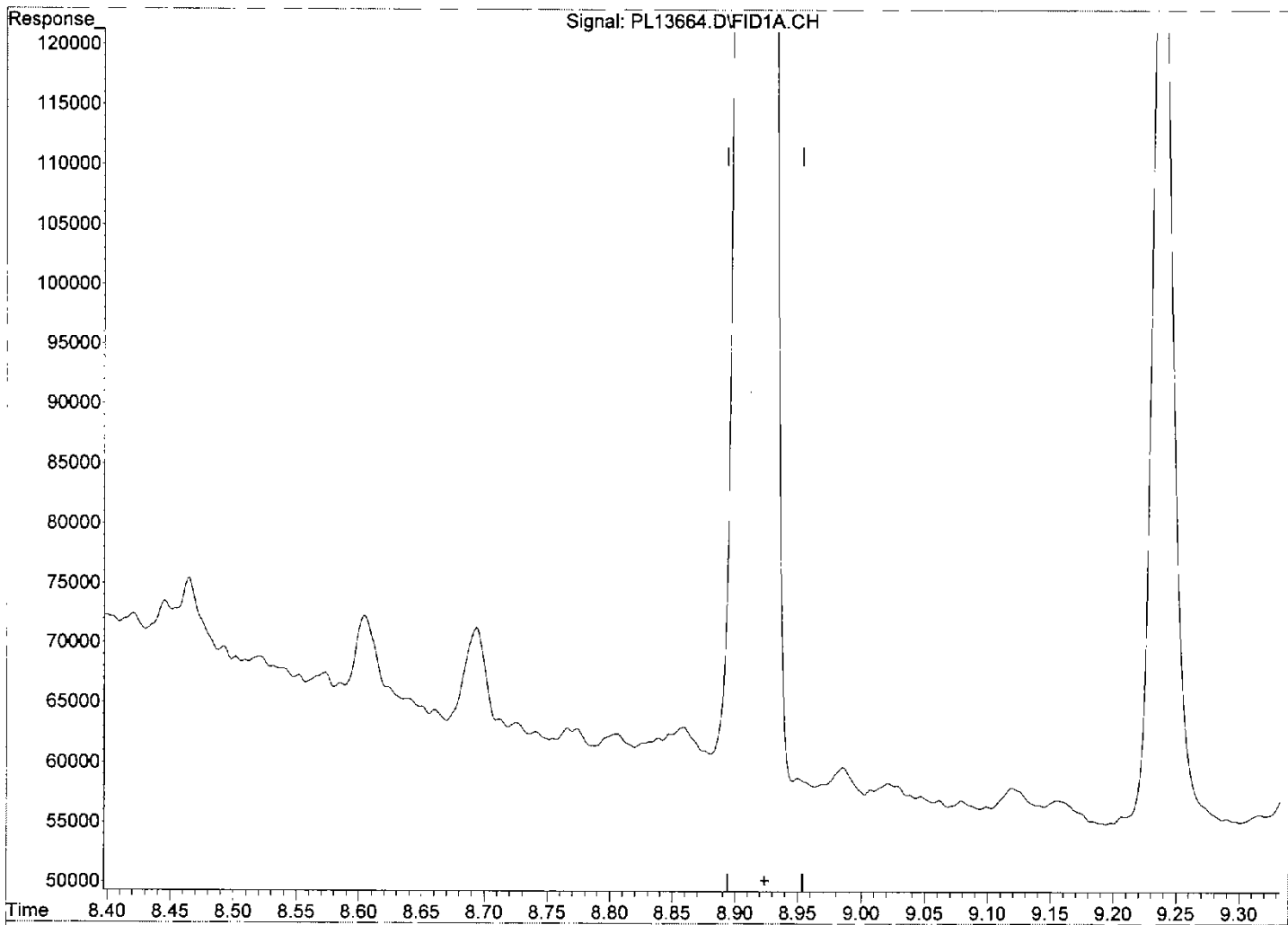
Quant Time: Aug 25 14:16 2006 Quant Results File: AKXF050206.RES

Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)

Title : Ak102/103 Front column

Last Update : Wed Aug 16 08:26:33 2006

Response via : Multiple Level Calibration



QEdit

(2) n-triacontane-d62 (S) (S)

8.92min -144.584ng/ul

response -105802034

*Supposed
Peak missed
All
8/25/06*

(+) = Expected Retention Time

INITIAL CALIBRATION

Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
 Title : Ak102/103 Front column
 Last Update : Tue May 02 12:12:25 2006
 Response via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	20	-1.00	0.00	F:\DATA\050206_A\PL12844.D
2	50	50.05	0.00	F:\DATA\050206_A\PL12845.D
3	100	100.09	0.00	F:\DATA\050206_A\PL12846.D
4	500	500.45	0.00	F:\DATA\050206_A\PL12847.D
5	1000	1000.90	0.00	F:\DATA\050206_A\PL12848.D
6	5000	5004.50	0.00	F:\DATA\050206_A\PL12849.D

#	ID	Update Time	Quant Time	Acquisition Time
1	20	May 02 12:01 2006	May 02 12:01 2006	
2	50	May 02 12:01 2006	May 02 12:01 2006	02 May 2006 10:07
3	100	May 02 12:01 2006	May 02 12:01 2006	02 May 2006 10:27
4	500	May 02 12:02 2006	May 02 12:01 2006	02 May 2006 10:47
5	1000	May 02 12:02 2006	May 02 12:02 2006	02 May 2006 11:13
6	5000	May 02 12:02 2006	May 02 12:02 2006	02 May 2006 11:39

AKXF050206.M

Tue May 02 12:26:33 2006

FUELS

Sequence Log

Directory : f:\DATA\050206_a

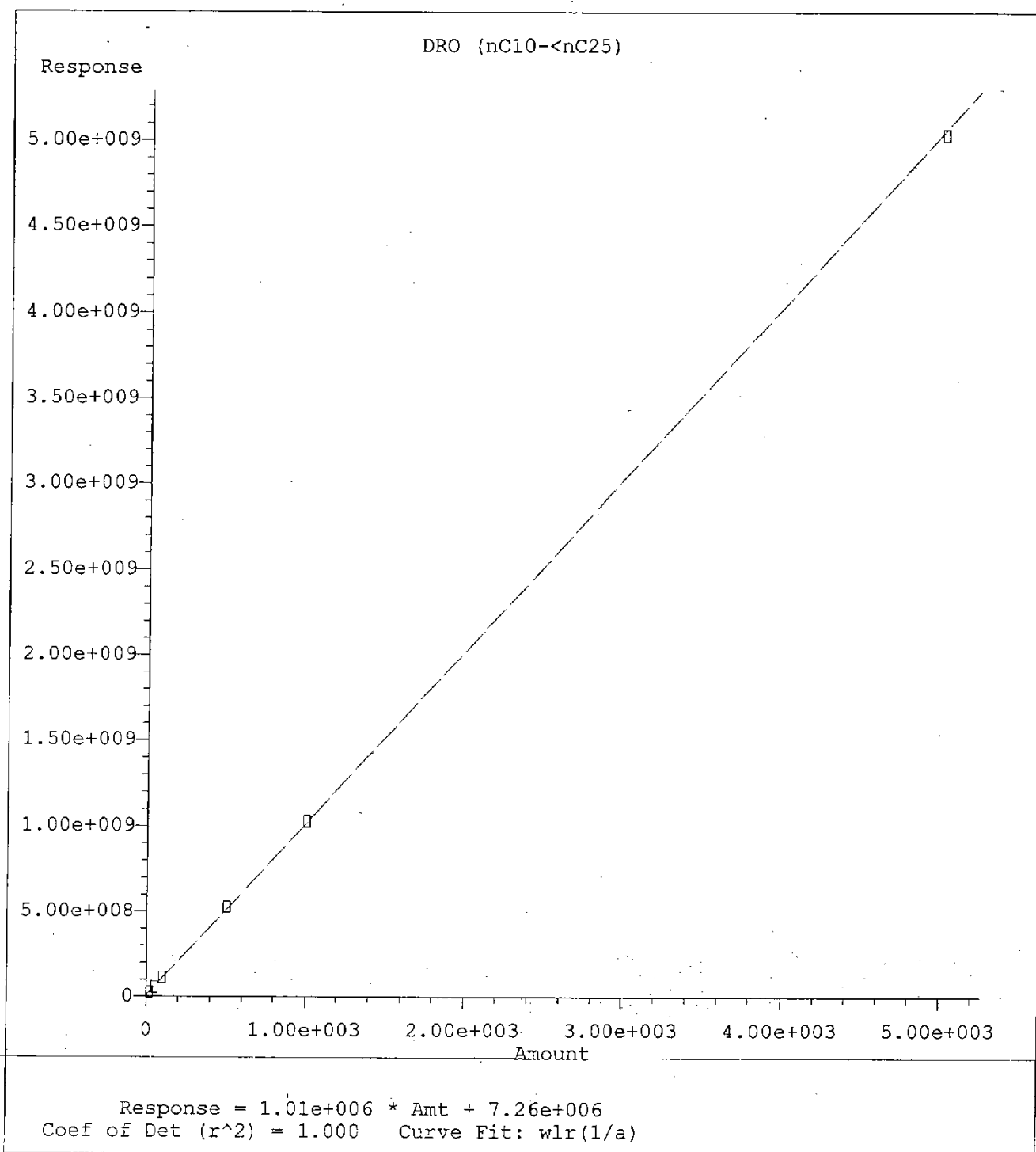
#	Filename	Sample Name	Date/Time
1	pl12843.d	1166-79-1 n-alkane rt std	05/02/06 09:27
2	pl12844.d	IC 49925 20 AK	05/02/06 09:47
3	pl12845.d	IC 49924 50 AK	05/02/06 10:07
4	pl12846.d	IC 49923 100 AK	05/02/06 10:27
5	pl12847.d	IC 49922 500 AK	05/02/06 10:47
6	pl12848.d	IC 49921 1000 AK	05/02/06 11:13
7	pl12849.d	IC 49920 5000 AK	05/02/06 11:39
8	pl12850.d	ICV 49109 500AK	05/02/06 12:04

Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
 Title : Ak102/103 Front column
 Last Update : Tue May 02 12:12:25 2006

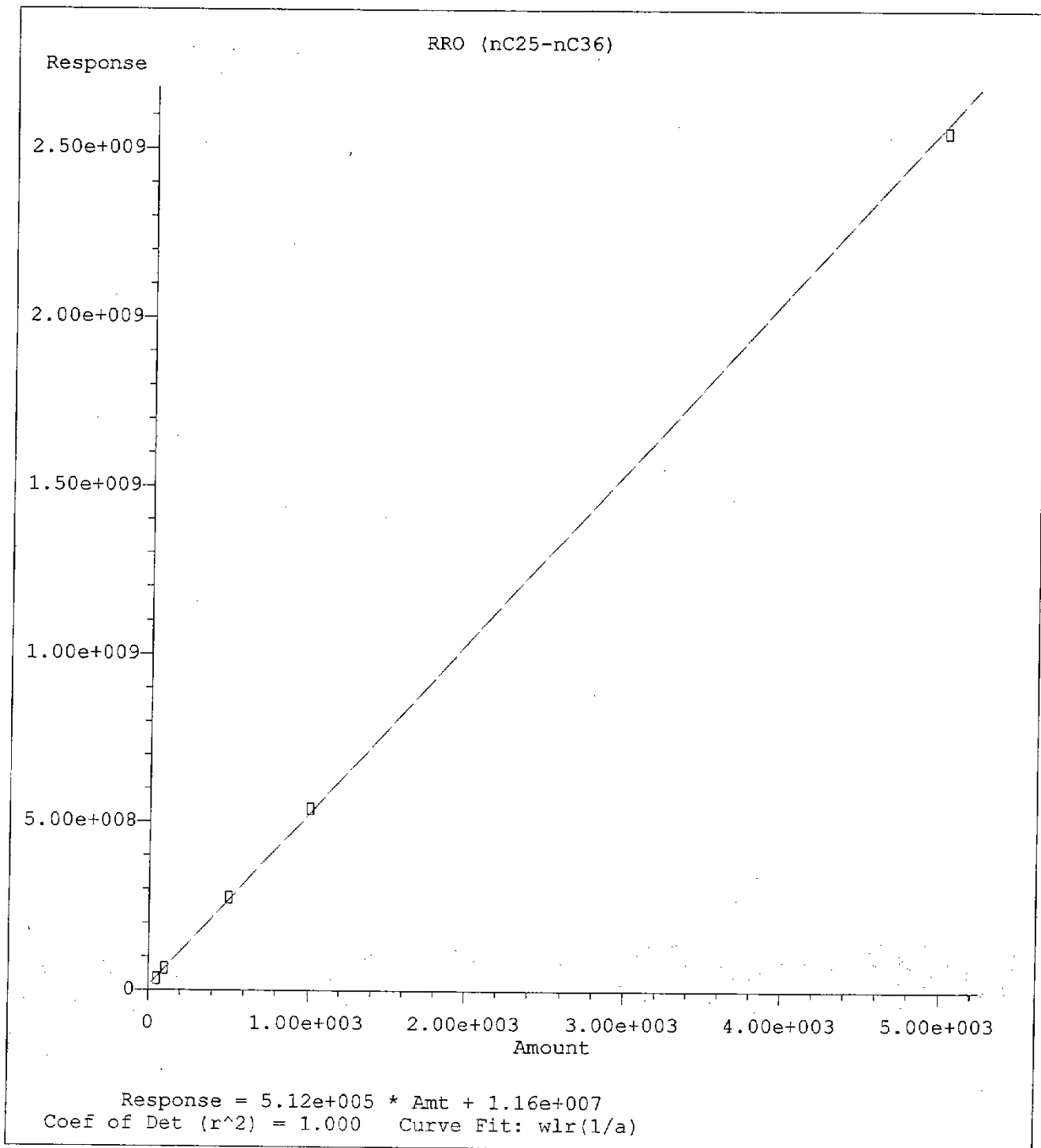
Calibration Files

20 =PL12844.D 50 =PL12845.D 100 =PL12846.D
 500 =PL12847.D 1000 =PL12848.D 5000 =PL12849.D

Compound	20	50	100	500	1000	5000	Avg		%RSD
1) S o-terphenyl (S)		1.027	1.141	1.113	1.130	1.010	1.084	E6	5.64
2) S n-triacontane-d6		6.786	7.791	7.217	7.322	7.472	7.318	E5	5.02
3) H DRO (nC10-<nC25)	1.322	1.119	1.126	1.056	1.028	1.004	1.109	E6	10.35
4) H RRO (nC25-nC36)		6.898	6.568	5.519	5.387	5.100	5.894	E5	13.39



Method Name: F:\METHODS\AKXF050206.M
 Calibration Table Last Updated: Tue May 02 12:12:25 2006



Method Name: F:\METHODS\AKXF050206.M
 Calibration Table Last Updated: Tue May 02 12:12:25 2006

Data File : F:\DATA\050206_A\PL12843.D Vial: 2
 Acq On : 05-02-2006 09:27:59 AM Operator: RBF
 Sample : 1166-79-1 n-alkane rt std Inst : SEA015
 Misc : BT=S15042706 Multiplr: 1.00
 IntFile : EVENTS.E
 Quant Time: May 02 12:25:05 2006 Quant Results File: AKXF050206.RES

Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
 Title : Ak102/103 Front column
 Last Update : Tue May 02 12:12:25 2006
 Response via : Initial Calibration
 DataAcq Meth : FACQ.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
Target Compounds			
3) H DRO (nC10-<nC25)	5.00	258827390	249.359 ng/ul
4) H RRO (nC25-nC36)	9.50	141767047	254.024 ng/ul

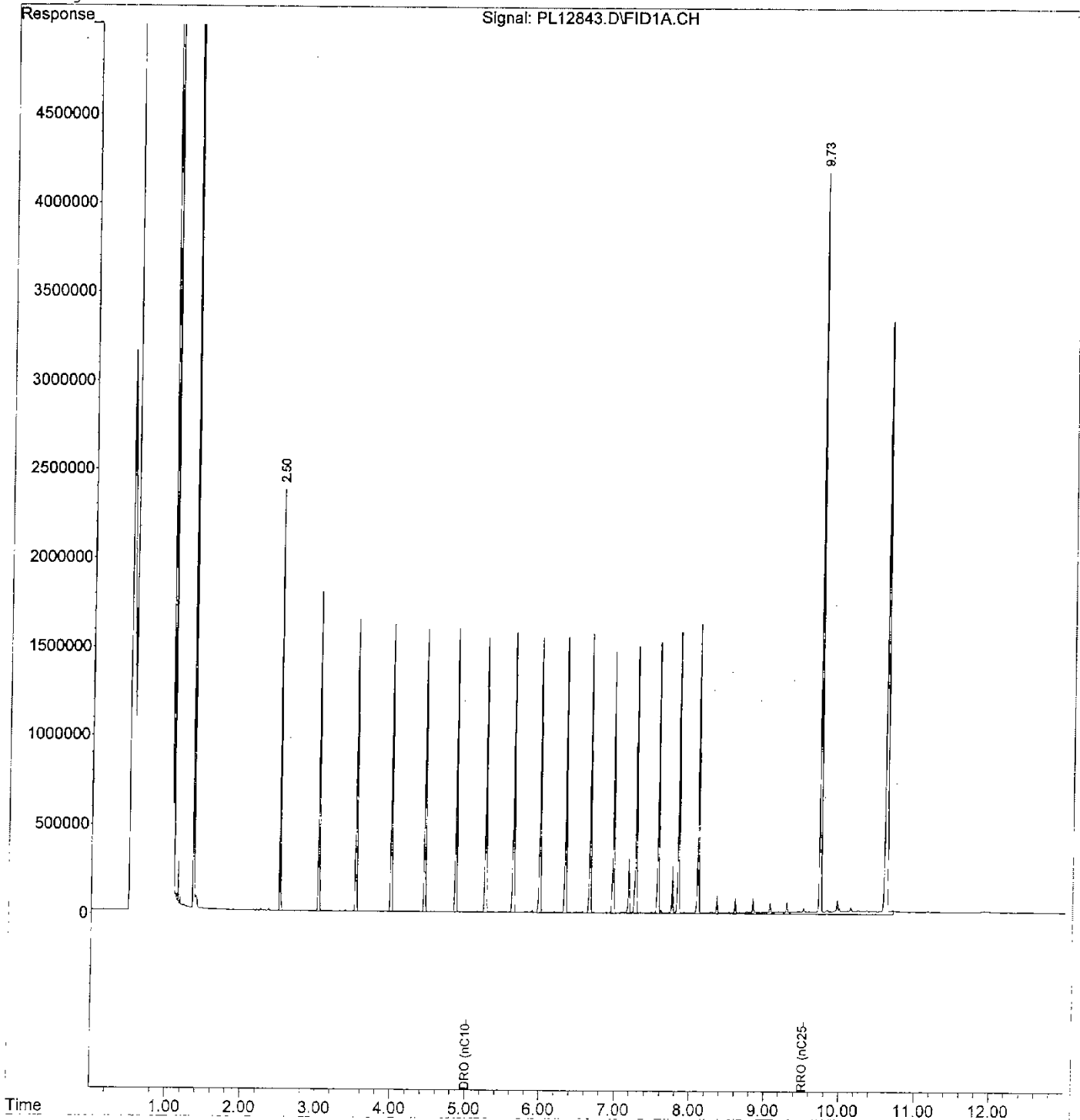
Data File : F:\DATA\050206_A\PL12843.D
Acq On : 05-02-2006 09:27:59 AM
Sample : 1166-79-1 n-alkane rt std
Misc : BT=S15042706
IntFile : EVENTS.E
Quant Time: May 2 12:25 2006

Vial: 2
Operator: RBF
Inst : SEA015
Multiplr: 1.00

Quant Results File: AKXF050206.RES

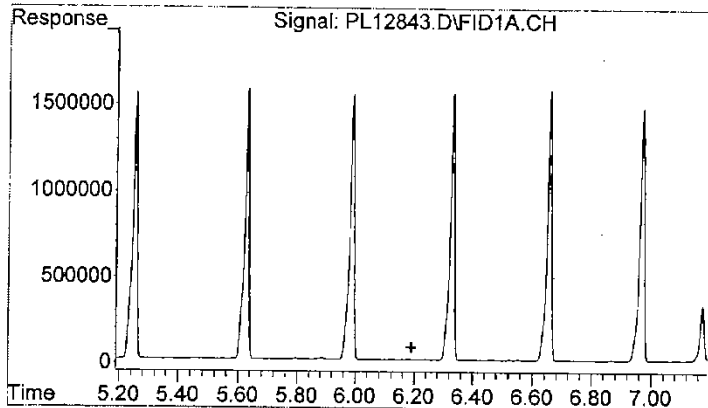
Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
Title : Ak102/103 Front column
Last Update : Tue May 02 12:12:25 2006
Response via : Multiple Level Calibration
DataAcq Meth : FACQ.M

Volume Inj. :
Signal Phase :
Signal Info :

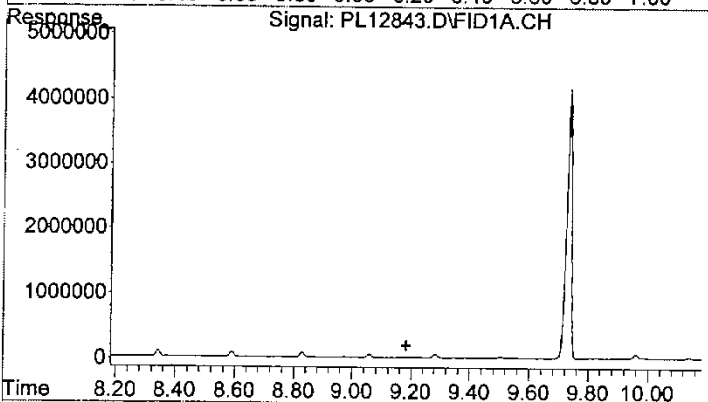


PRO (nC10-

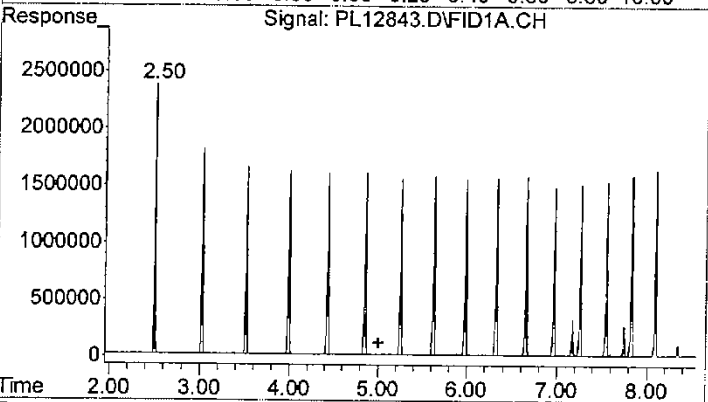
PRO (nC25-



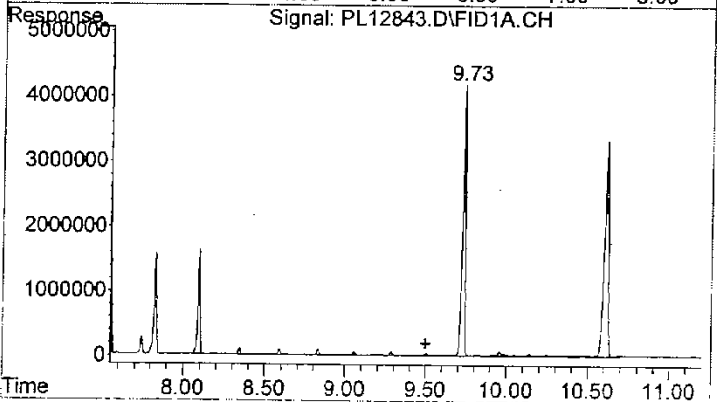
#1 o-terphenyl (S)
 R.T.: 0.000 min
 Exp R.T.: 6.190 min
 Response: 0
 Conc: N.D.



#2 n-triacontane-d62 (S)
 R.T.: 0.000 min
 Exp R.T.: 9.183 min
 Response: 0
 Conc: N.D.



#3 DRO (nC10-<nC25)
 R.T.: 5.000 min
 Delta R.T.: 0.000 min
 Response: 258827390
 Conc: 249.36 ng/ul m



#4 RRO (nC25-nC36)
 R.T.: 9.500 min
 Delta R.T.: 0.000 min
 Response: 141767047
 Conc: 254.02 ng/ul m

Data File : F:\DATA\050206 A\PL12844.D Vial: 3
 Acq On : 05-02-2006 09:47:49 AM Operator: RBF
 Sample : IC 49925 20 AK Inst : SEA015
 Misc : BT=S15042706 Multiplr: 1.00
 IntFile : EVENTS.E
 Quant Time: May 02 12:24:06 2006 Quant Results File: AKXF050206.RES

Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
 Title : AK102/103 Front column
 Last Update : Tue May 02 12:12:25 2006
 Response via : Initial Calibration
 DataAcq Meth : FACQ.M

Volume Inj. :
 Signal Phase :
 Signal Info :

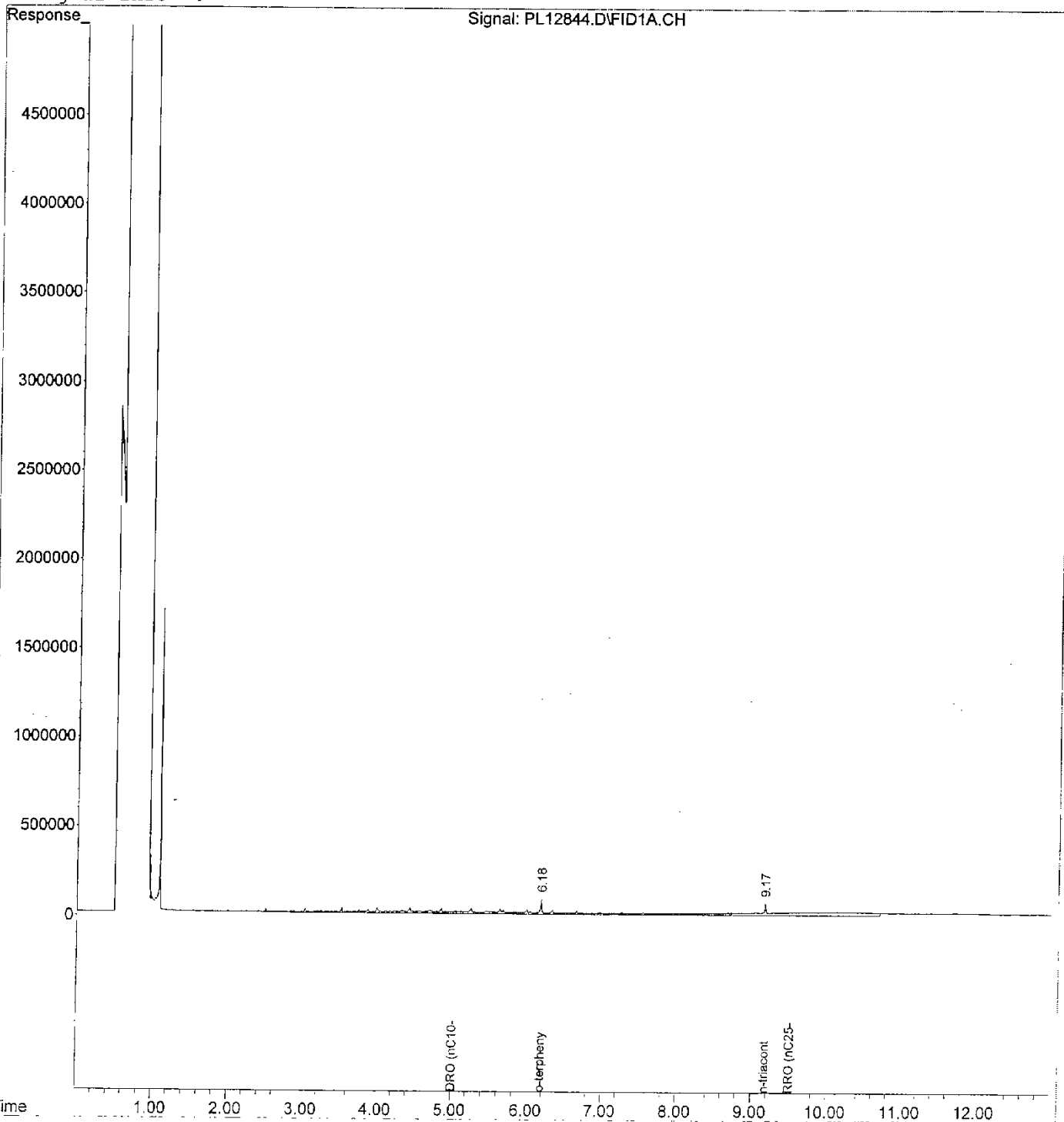
Compound	R.T.	Response	Conc Units

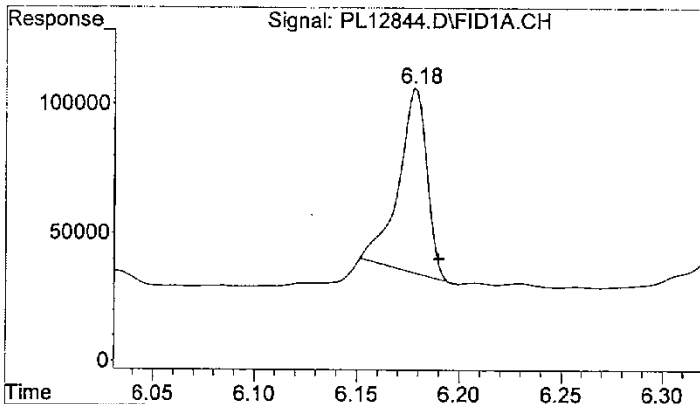
System Monitoring Compounds			
1) S o-terphenyl (S)	6.18	656738	0.606 ng/ul
2) S n-triacontane-d62 (S)	9.17f	526357	0.719 ng/ul
Target Compounds			
3) H DRO (nC10-<nC25)	5.00	26714114	19.281 ng/ul
4) H RRO (nC25-nC36)	9.50	20827121	17.959 ng/ul

Data File : F:\DATA\050206_A\PL12844.D Vial: 3
Acq On : 05-02-2006 09:47:49 AM Operator: RBF
Sample : IC 49925 20 AK Inst : SEA015
Misc : BT=S15042706 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 2 12:24 2006 Quant Results File: AKXF050206.RES

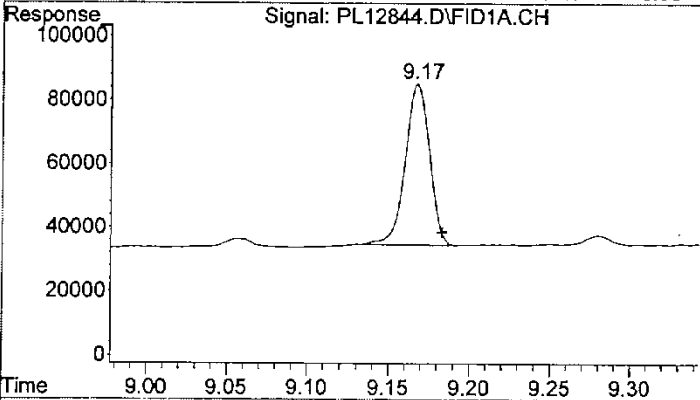
Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
Title : Ak102/103 Front column
Last Update : Tue May 02 12:12:25 2006
Response via : Multiple Level Calibration
DataAcq Meth : FACQ.M

Volume Inj. :
Signal Phase :
Signal Info :

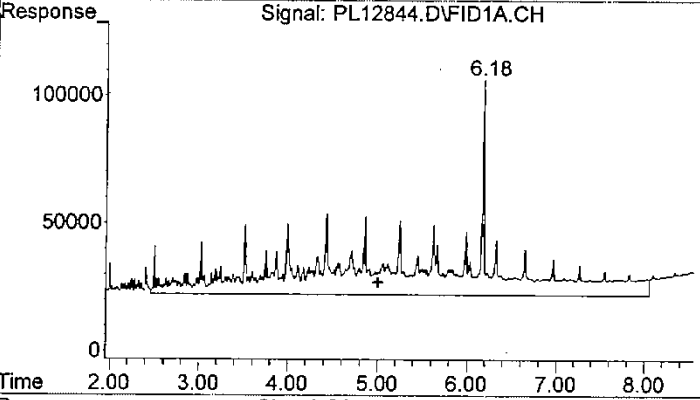




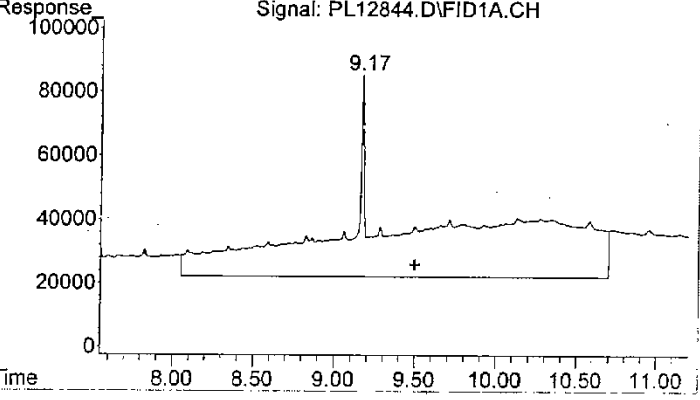
#1 o-terphenyl (S)
 R.T.: 6.179 min
 Delta R.T.: -0.011 min
 Response: 656738
 Conc: 0.61 ng/ul



#2 n-triacontane-d62 (S)
 R.T.: 9.168 min
 Delta R.T.: -0.015 min
 Response: 526357
 Conc: 0.72 ng/ul



#3 DRO (nC10-<nC25)
 R.T.: 5.000 min
 Delta R.T.: 0.000 min
 Response: 26714114
 Conc: 19.28 ng/ul m



#4 RRO (nC25-nC36)
 R.T.: 9.500 min
 Delta R.T.: 0.000 min
 Response: 20827121
 Conc: 17.96 ng/ul m

Data File : F:\DATA\050206_A\PL12845.D Vial: 4
 Acq On : 02 May 2006 10:07 Operator: RBF
 Sample : IC 49924 50 AK Inst : SEA015
 Misc : BT=S15042706 Multiplr: 1.00
 IntFile : EVENTS.E
 Quant Time: May 02 12:24:09 2006 Quant Results File: AKXF050206.RES

Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
 Title : Ak102/103 Front column
 Last Update : Tue May 02 12:12:25 2006
 Response via : Initial Calibration
 DataAcq Meth : FACQ.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

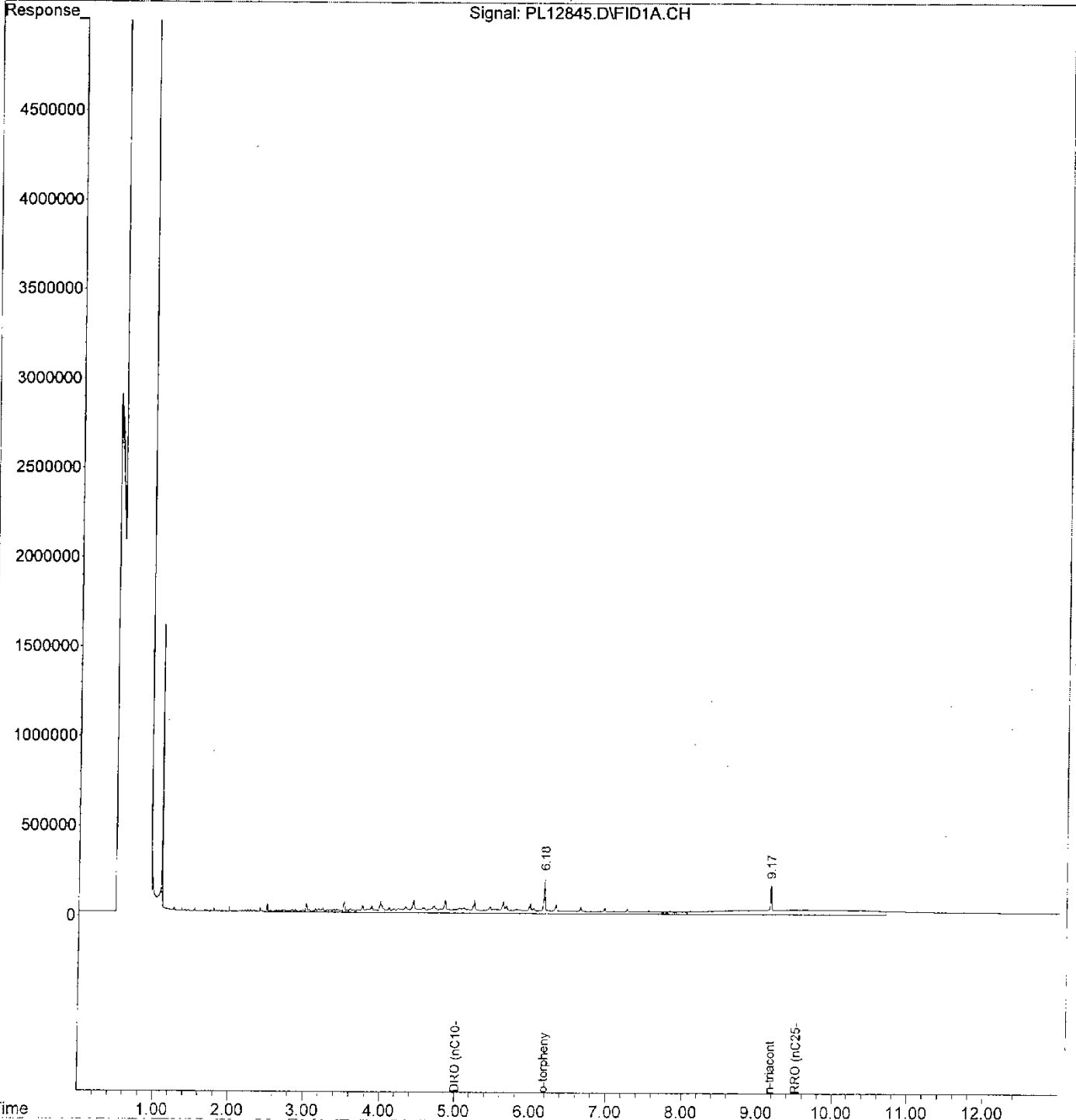
System Monitoring Compounds			
1) S o-terphenyl (S)	6.18	2089882	1.927 ng/ul
2) S n-triacontane-d62 (S)	9.17	1366761	1.868 ng/ul
Target Compounds			
3) H DRO (nC10-<nC25)	5.00	56114931	48.424 ng/ul
4) H RRO (nC25-nC36)	9.50	34523039	44.692 ng/ul

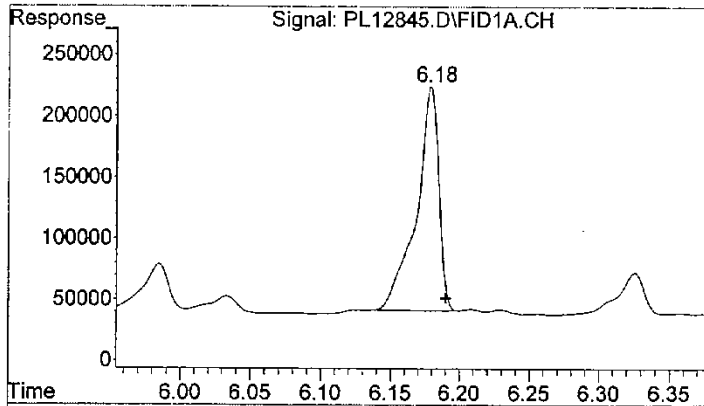
Data File : F:\DATA\050206_A\PL12845.D
Acq On : 02 May 2006 10:07
Sample : IC 49924 50 AK
Misc : BT=S15042706
IntFile : EVENTS.E
Quant Time: May 2 12:24 2006

Vial: 4
Operator: RBF
Inst : SEA015
Multiplr: 1.00

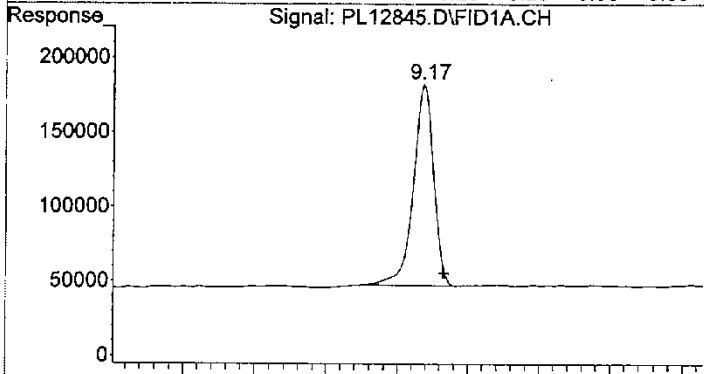
Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
Title : Ak102/103 Front column
Last Update : Tue May 02 12:12:25 2006
Response via : Multiple Level Calibration
DataAcq Meth : FACQ.M

Volume Inj. :
Signal Phase :
Signal Info :

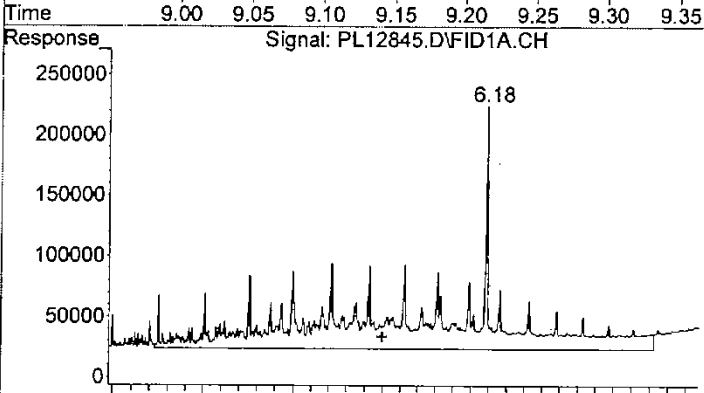




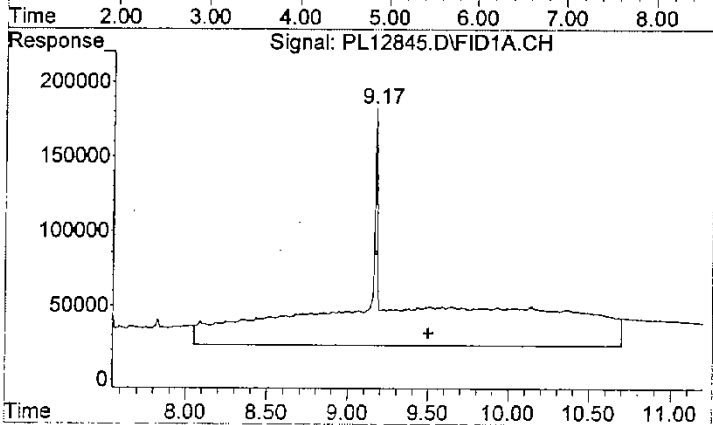
#1 o-terphenyl (S)
 R.T.: 6.179 min
 Delta R.T.: -0.011 min
 Response: 2089882
 Conc: 1.93 ng/ul



#2 n-triacontane-d62 (S)
 R.T.: 9.169 min
 Delta R.T.: -0.014 min
 Response: 1366761
 Conc: 1.87 ng/ul



#3 DRO (nC10-<nC25)
 R.T.: 5.000 min
 Delta R.T.: 0.000 min
 Response: 56114931
 Conc: 48.42 ng/ul m



#4 RRO (nC25-nC36)
 R.T.: 9.500 min
 Delta R.T.: 0.000 min
 Response: 34523039
 Conc: 44.69 ng/ul m

Data File : F:\DATA\050206.A\PL12846.D
Acq On : 02 May 2006 10:27
Sample : IC 49923 100 AK
Misc : BT=S15042706
IntFile : EVENTS.E

Vial: 5
Operator: RBF
Inst : SEA015
Multiplr: 1.00

Quant Time: May 02 12:24:12 2006 Quant Results File: AKXF050206.RES

Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
Title : Ak102/103 Front column
Last Update : Tue May 02 12:12:25 2006
Response via : Initial Calibration
DataAcq Meth : FACQ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S o-terphenyl (S)	6.18	4640829	4.280 ng/ul
2) S n-triacontane-d62 (S)	9.17	3138160	4.288 ng/ul
Target Compounds			
3) H DRO (nC10-<nC25)	5.00	112935873	104.747 ng/ul
4) H RRO (nC25-nC36)	9.50	65735212	105.616 ng/ul

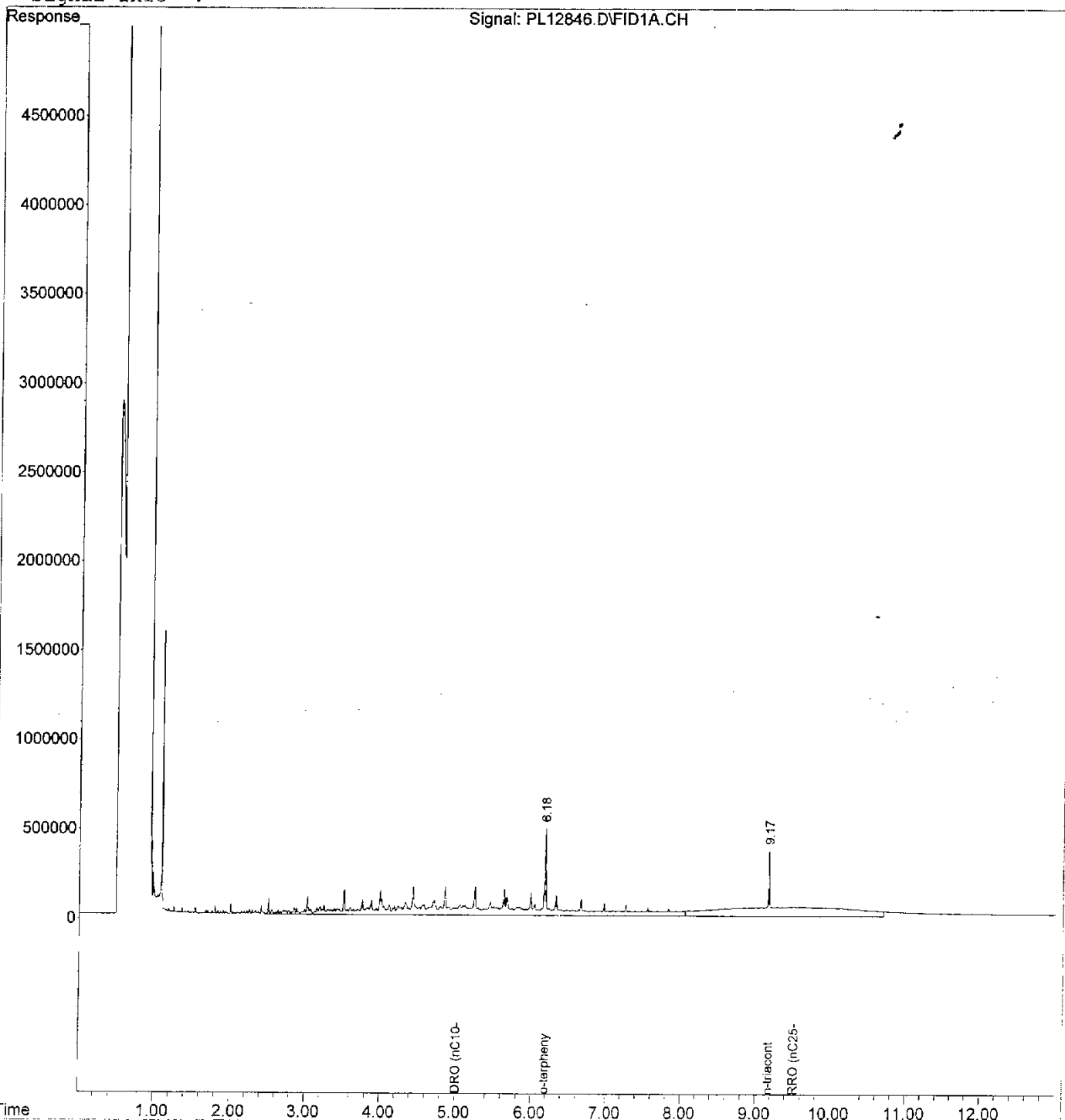
Data File : F:\DATA\050206 A\PL12846.D
Acq On : 02 May 2006 10:27
Sample : IC 49923 100 AK
Misc : BT=S15042706
IntFile : EVENTS.E

Vial: 5
Operator: RBF
Inst : SEA015
Multiplr: 1.00

Quant Time: May 2 12:24 2006 Quant Results File: AKXF050206.RES

Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
Title : Ak102/103 Front column
Last Update : Tue May 02 12:12:25 2006
Response via : Multiple Level Calibration
DataAcq Meth : FACQ.M

Volume Inj. :
Signal Phase :
Signal Info :



#1 o-terphenyl (S)

R.T.: 6.181 min
Delta R.T.: -0.009 min
Response: 4640829
Conc: 4.28 ng/ul

#2 n-triacontane-d62 (S)

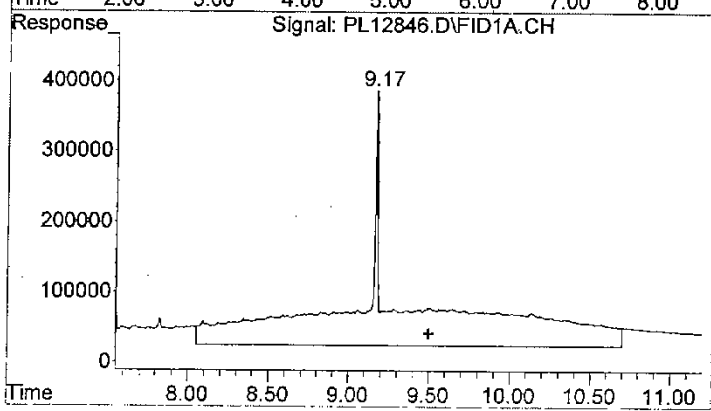
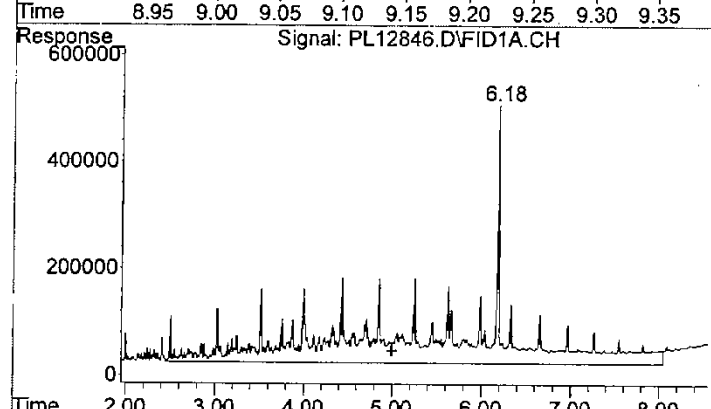
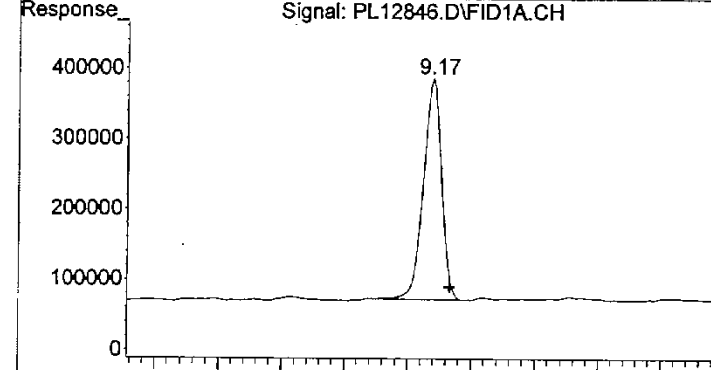
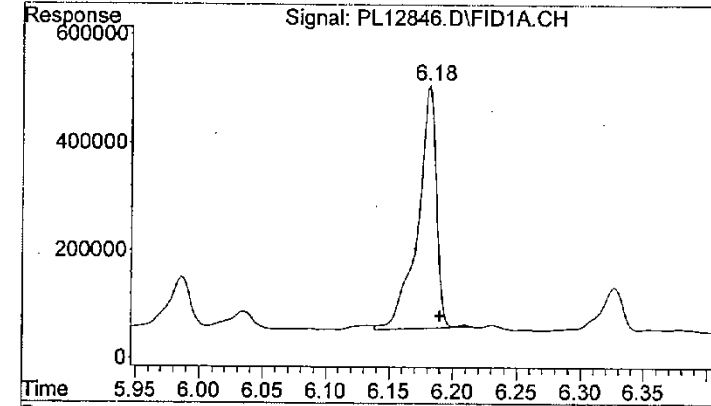
R.T.: 9.170 min
Delta R.T.: -0.013 min
Response: 3138160
Conc: 4.29 ng/ul

#3 DRO (nC10-<nC25)

R.T.: 5.000 min
Delta R.T.: 0.000 min
Response: 112935873
Conc: 104.75 ng/ul m

#4 RRO (nC25-nC36)

R.T.: 9.500 min
Delta R.T.: 0.000 min
Response: 65735212
Conc: 105.62 ng/ul m



Data File : F:\DATA\050206_A\PL12847.D Vial: 6 ..
 Acq On : 02 May 2006 10:47 Operator: RBF
 Sample : IC 49922 500 AK Inst : SEA015
 Misc : BT=S15042706 Multiplr: 1.00
 IntFile : EVENTS.E
 Quant Time: May 02 12:24:15 2006 Quant Results File: AKXF050206.RES

Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
 Title : Ak102/103 Front column
 Last Update : Tue May 02 12:12:25 2006
 Response via : Initial Calibration
 DataAcq Meth : EXTFACQ.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S o-terphenyl (S)	6.19	22645196	20.884 ng/ul
2) S n-triacontane-d62 (S)	9.18	14534116	19.862 ng/ul
Target Compounds			
3) H DRO (nC10-<nC25)	5.00	529587472	517.746 ng/ul
4) H RRO (nC25-nC36)	9.50	276198423	516.423 ng/ul

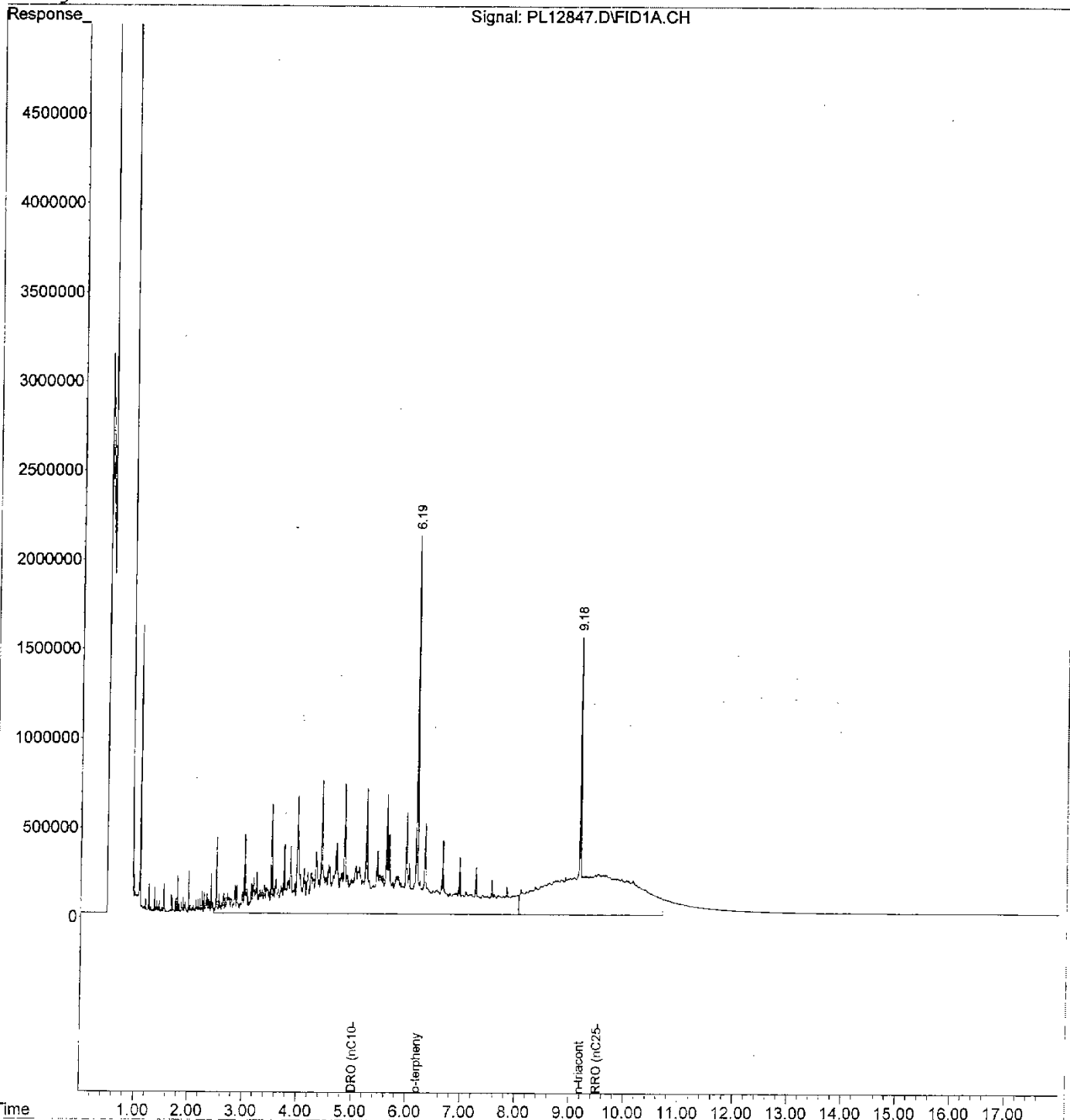
Data File : F:\DATA\050206 A\PL12847.D
Acq On : 02 May 2006 10:47
Sample : IC 49922 500 AK
Misc : BT=S15042706
IntFile : EVENTS.E

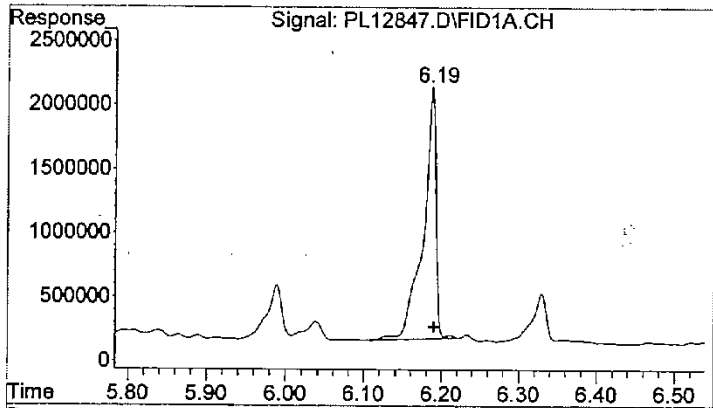
Vial: 6
Operator: RBF
Inst : SEA015
Multiplr: 1.00

Quant Time: May 2 12:24 2006 Quant Results File: AKXF050206.RES

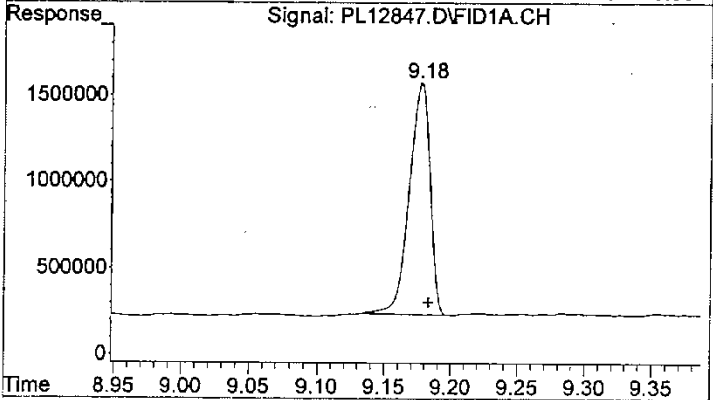
Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
Title : Ak102/103 Front column
Last Update : Tue May 02 12:12:25 2006
Response via : Multiple Level Calibration
DataAcq Meth : EXTFACQ.M

Volume Inj. :
Signal Phase :
Signal Info :

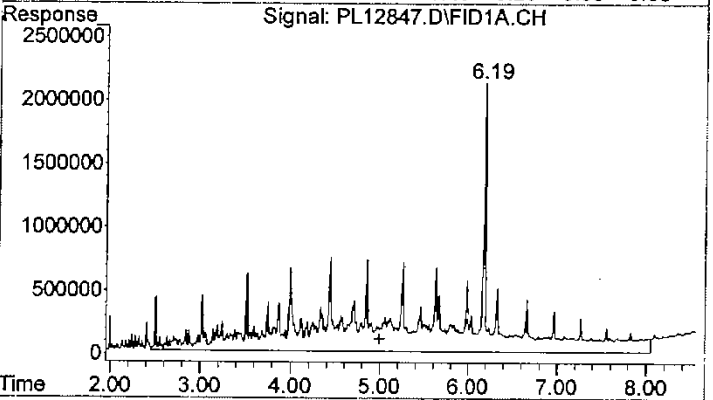




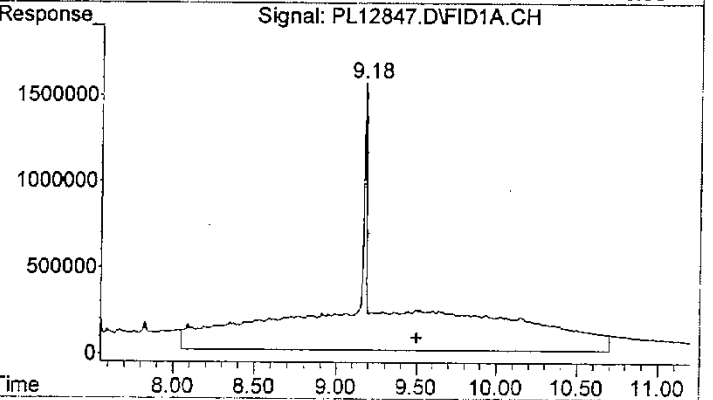
#1 o-terphenyl (S)
 R.T.: 6.187 min
 Delta R.T.: -0.003 min
 Response: 22645196
 Conc: 20.88 ng/ul



#2 n-triacontane-d62 (S)
 R.T.: 9.178 min
 Delta R.T.: -0.006 min
 Response: 14534116
 Conc: 19.86 ng/ul



#3 DRO (nC10-<nC25)
 R.T.: 5.000 min
 Delta R.T.: 0.000 min
 Response: 529587472
 Conc: 517.75 ng/ul m



#4 RRO (nC25-nC36)
 R.T.: 9.500 min
 Delta R.T.: 0.000 min
 Response: 276198423
 Conc: 516.42 ng/ul m

Data File : F:\DATA\050206 A\PL12848.D Vial: 7
 Acq On : 02 May 2006 11:13 Operator: RBF
 Sample : IC 49921 1000 AK Inst : SEA015
 Misc : BT=S15042706 Multiplr: 1.00
 IntFile : EVENTS.E
 Quant Time: May 02 12:24:17 2006 Quant Results File: AKXF050206.RES

Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
 Title : Ak102/103 Front column
 Last Update : Tue May 02 12:12:25 2006
 Response via : Initial Calibration
 DataAcq Meth : EXTFACQ.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S o-terphenyl (S)	6.19	45982610	42.407 ng/ul
2) S n-triacontane-d62 (S)	9.18	29494809	40.306 ng/ul
Target Compounds			
3) H DRO (nC10-<nC25)	5.00	1030269279	1014.039 ng/ul
4) H RRO (nC25-nC36)	9.50	539191325	1029.764 ng/ul

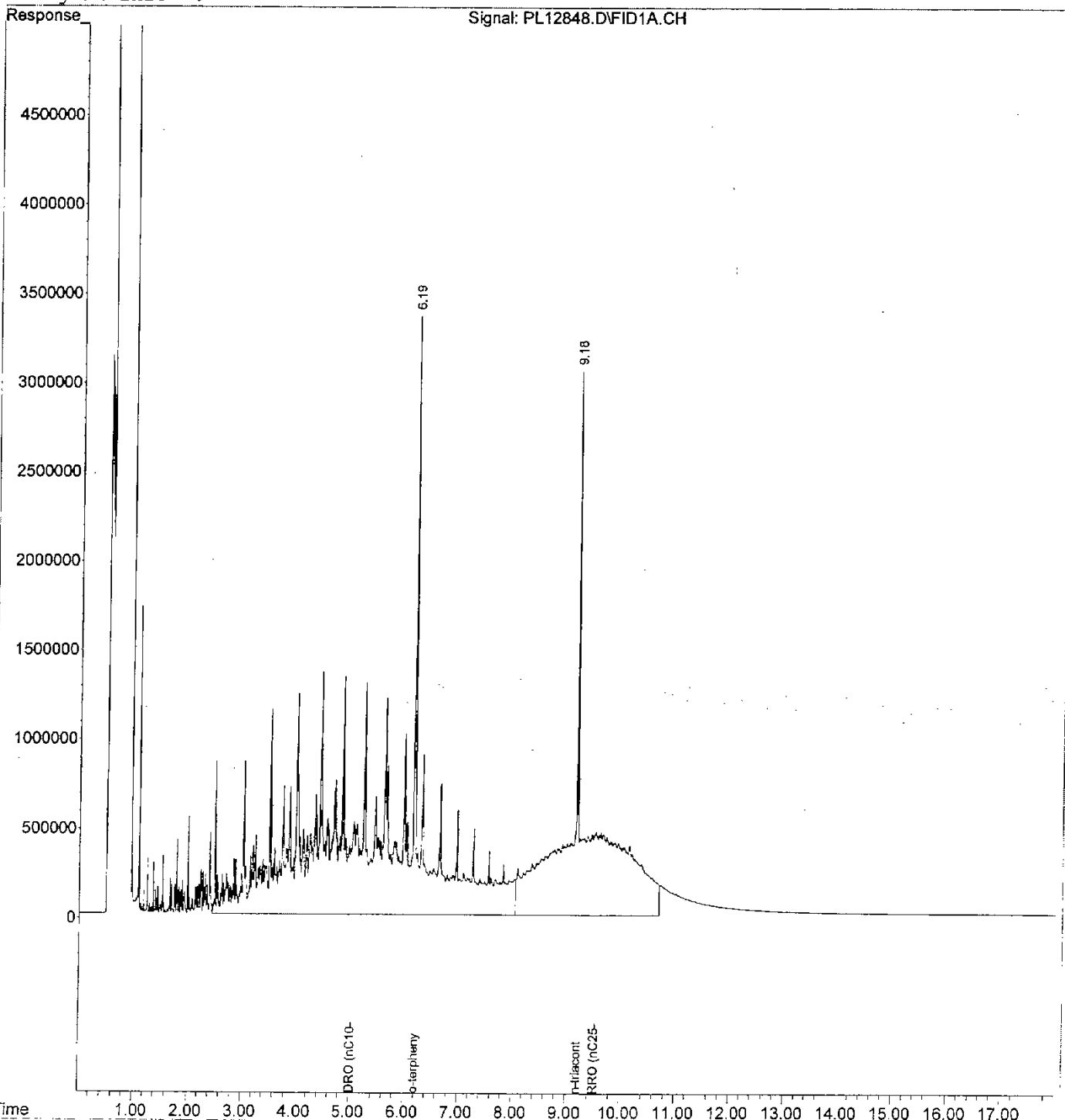
Data File : F:\DATA\050206 A\PL12848.D
Acq On : 02 May 2006 11:13
Sample : IC 49921 1000 AK
Misc : BT=S15042706
IntFile : EVENTS.E
Quant Time: May 2 12:24 2006

Vial: 7
Operator: RBF
Inst : SEA015
Multiplr: 1.00

Quant Results File: AKXF050206.RES

Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
Title : Ak102/103 Front column
Last Update : Tue May 02 12:12:25 2006
Response via : Multiple Level Calibration
DataAcq Meth : EXTFACQ.M

Volume Inj. :
Signal Phase :
Signal Info :



#1 o-terphenyl (S)

R.T.: 6.190 min
Delta R.T.: 0.000 min
Response: 45982610
Conc: 42.41 ng/ul

#2 n-triacontane-d62 (S)

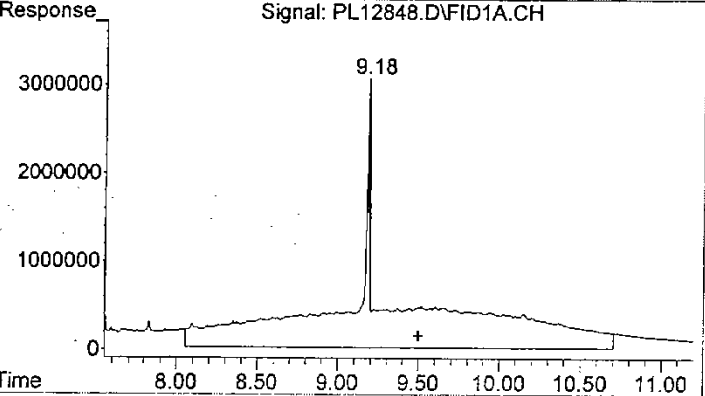
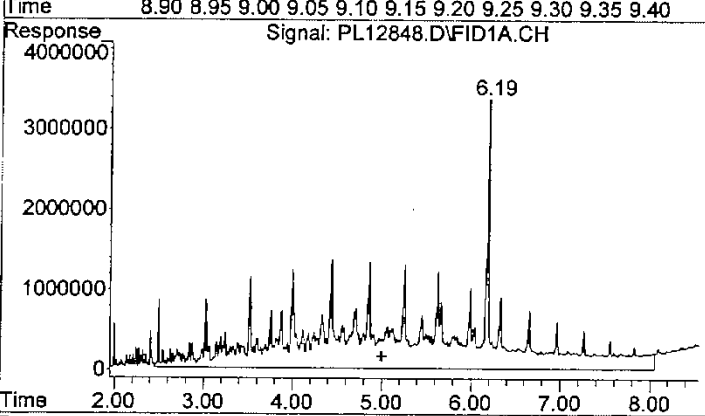
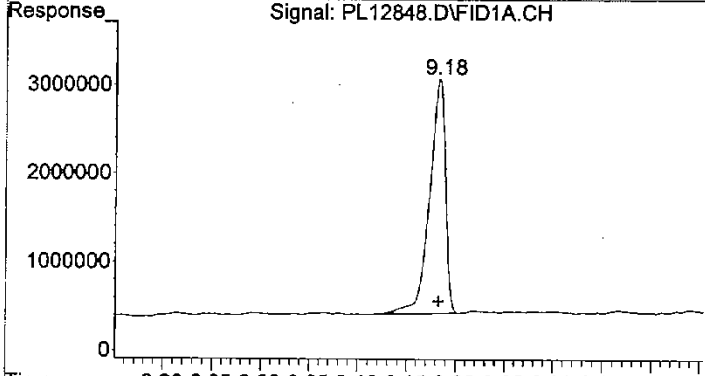
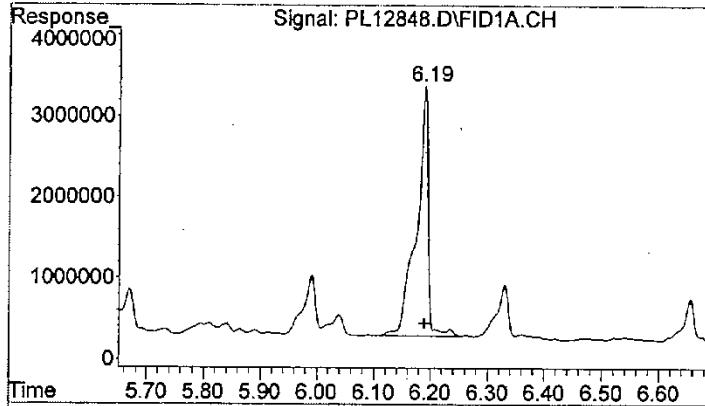
R.T.: 9.183 min
Delta R.T.: 0.000 min
Response: 29494809
Conc: 40.31 ng/ul

#3 DRO (nC10-<nC25)

R.T.: 5.000 min
Delta R.T.: 0.000 min
Response: 1030269279
Conc: 1014.04 ng/ul m

#4 RRO (nC25-nC36)

R.T.: 9.500 min
Delta R.T.: 0.000 min
Response: 539191325
Conc: 1029.76 ng/ul m



Data File : F:\DATA\050206 A\PL12849.D Vial: 8
 Acq On : 02 May 2006 11:39 Operator: RBF
 Sample : IC 49920 5000 AK Inst : SEA015
 Misc : BT=S15042706 Multiplr: 1.00
 IntFile : EVENTS.E
 Quant Time: May 02 12:24:21 2006 Quant Results File: AKXF050206.RES

Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
 Title : Ak102/103 Front column
 Last Update : Tue May 02 12:12:25 2006
 Response via : Initial Calibration
 DataAcq Meth : EXTFACQ.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S o-terphenyl (S)	6.22f	203412069	187.596 ng/ulm
2) S n-triacontane-d62 (S)	9.22f	152387381	208.245 ng/ulm
Target Compounds			
3) H DRO (nC10-<nC25)	5.00	5036587248	4985.236 ng/ul
4) H RRO (nC25-nC36)	9.50	2550558698	4955.791 ng/ul

Handwritten: 9/2/06

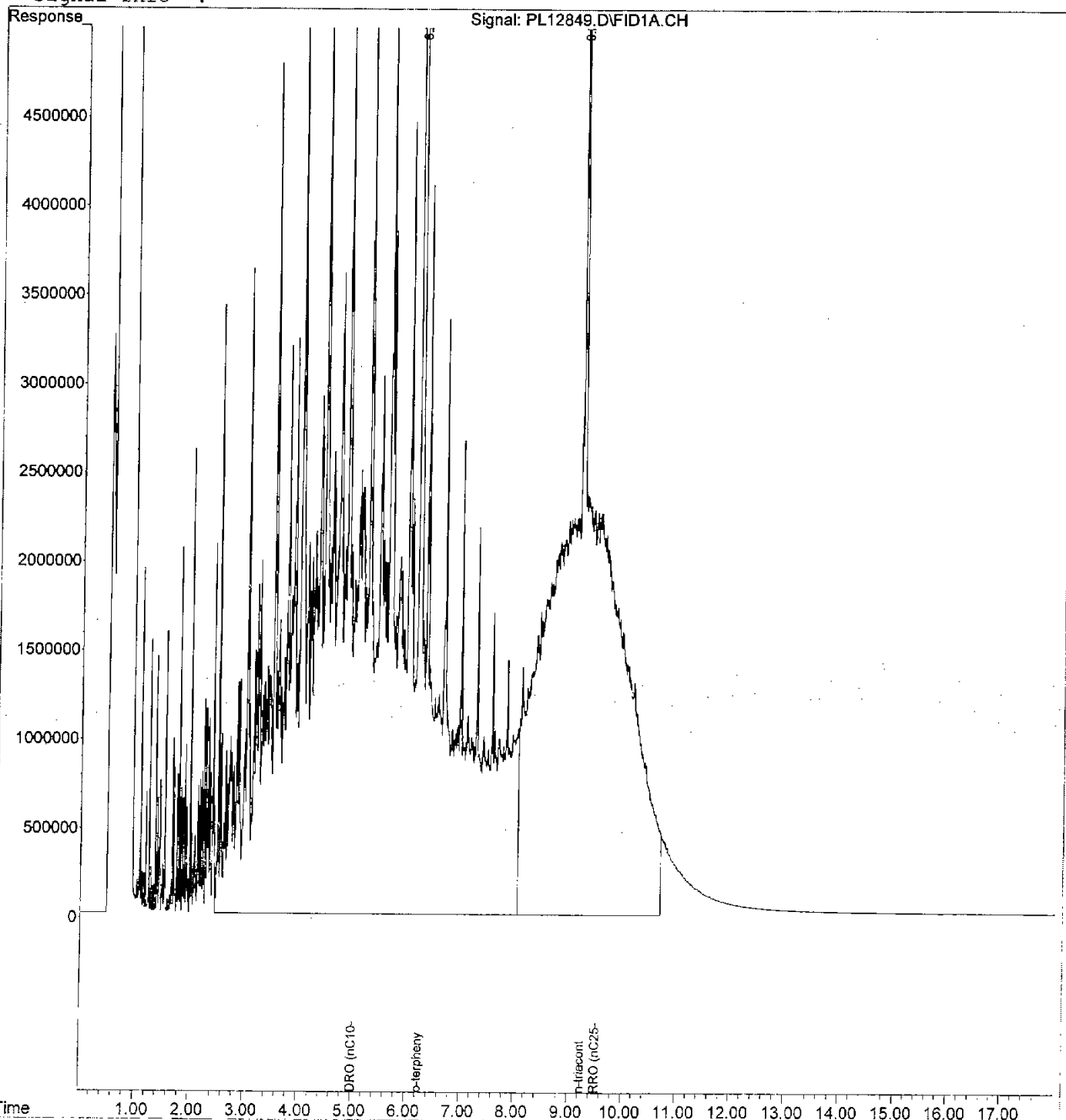
Data File : F:\DATA\050206_A\PL12849.D
Acq On : 02 May 2006 11:39
Sample : IC 49920 5000 AK
Misc : BT=S15042706
IntFile : EVENTS.E
Quant Time: May 2 12:24 2006

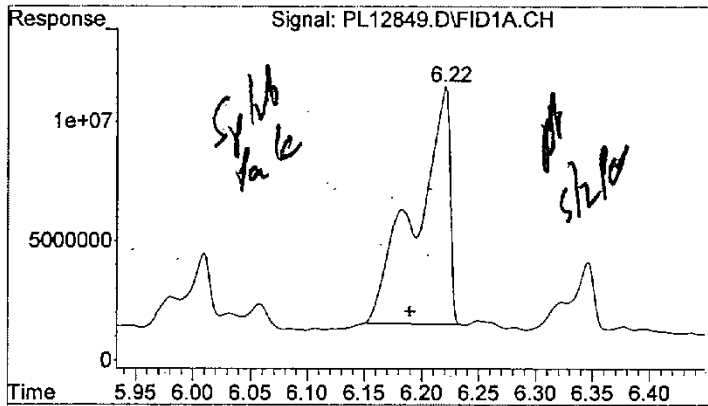
Vial: 8
Operator: RBF
Inst : SEA015
Multiplr: 1.00

Quant Results File: AKXF050206.RES

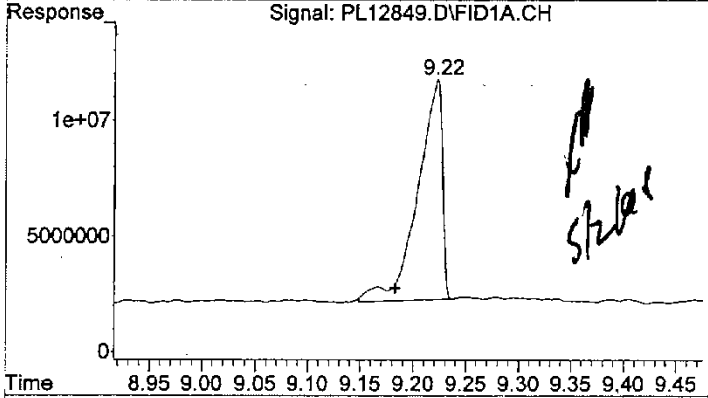
Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
Title : Ak102/103 Front column
Last Update : Tue May 02 12:12:25 2006
Response via : Multiple Level Calibration
DataAcq Meth : EXTFACQ.M

Volume Inj. :
Signal Phase :
Signal Info :

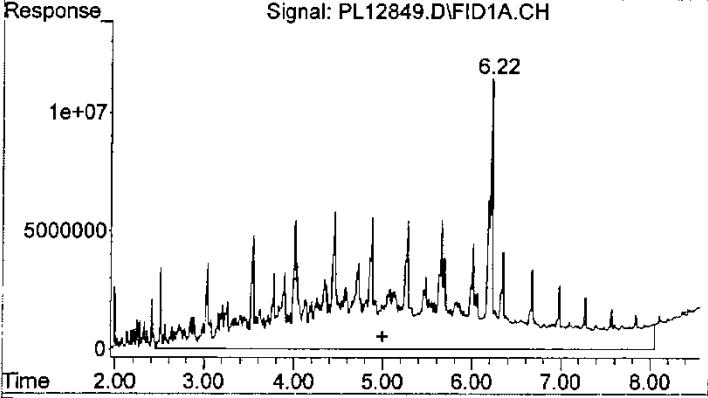




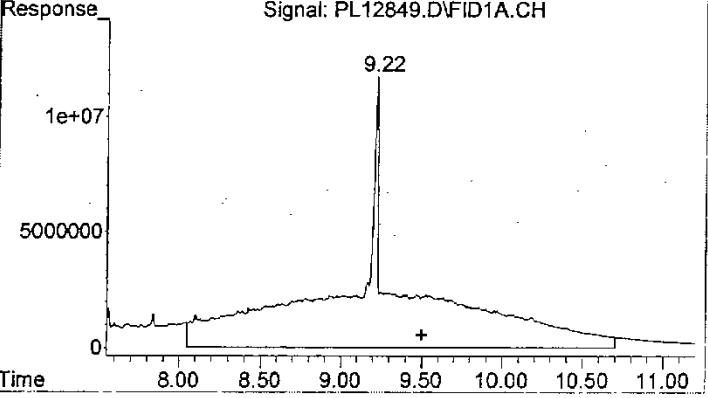
#1 o-terphenyl (S)
 R.T.: 6.220 min
 Delta R.T.: 0.030 min
 Response: 203412069
 Conc: 187.60 ng/ul m



#2 n-triacontane-d62 (S)
 R.T.: 9.222 min
 Delta R.T.: 0.039 min
 Response: 152387381
 Conc: 208.25 ng/ul m



#3 DRO (nC10-<nC25)
 R.T.: 5.000 min
 Delta R.T.: 0.000 min
 Response: 5036587248
 Conc: 4985.24 ng/ul m



#4 RRO (nC25-nC36)
 R.T.: 9.500 min
 Delta R.T.: 0.000 min
 Response: 2550558698
 Conc: 4955.79 ng/ul m

Data File : F:\DATA\050206_A\PL12849.D

Vial: 8

Acq On : 02 May 2006 11:39

Operator: RBF

Sample : IC 49920 5000 AK

Inst : SEA015

Misc : BT=S15042706

Multiplr: 1.00

IntFile : EVENTS.E

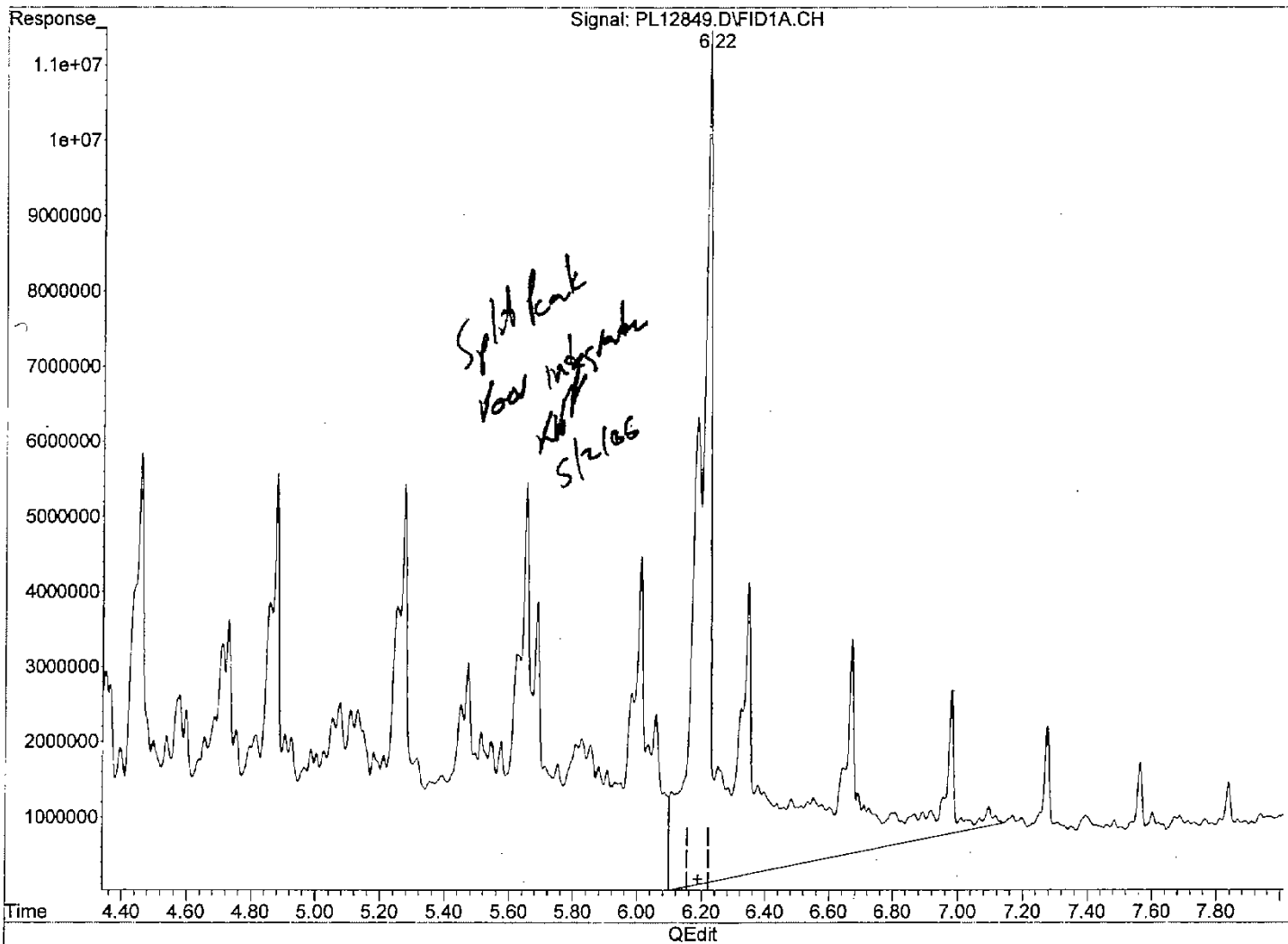
Quant Time: May 2 12:24 2006 Quant Results File: AKXF050206.RES

Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)

Title : Ak102/103 Front column

Last Update : Tue May 02 12:12:25 2006

Response via : Multiple Level Calibration



(1) o-terphenyl (S) (S)

6.18min 494.107ng/ul

response 535764756

Data File : F:\DATA\050206 A\PL12849.D

Vial: 8

Acq On : 02 May 2006 11:39

Operator: RBF

Sample : IC 49920 5000 AK

Inst : SEA015

Misc : BT=S15042706

Multiplr: 1.00

IntFile : EVENTS.E

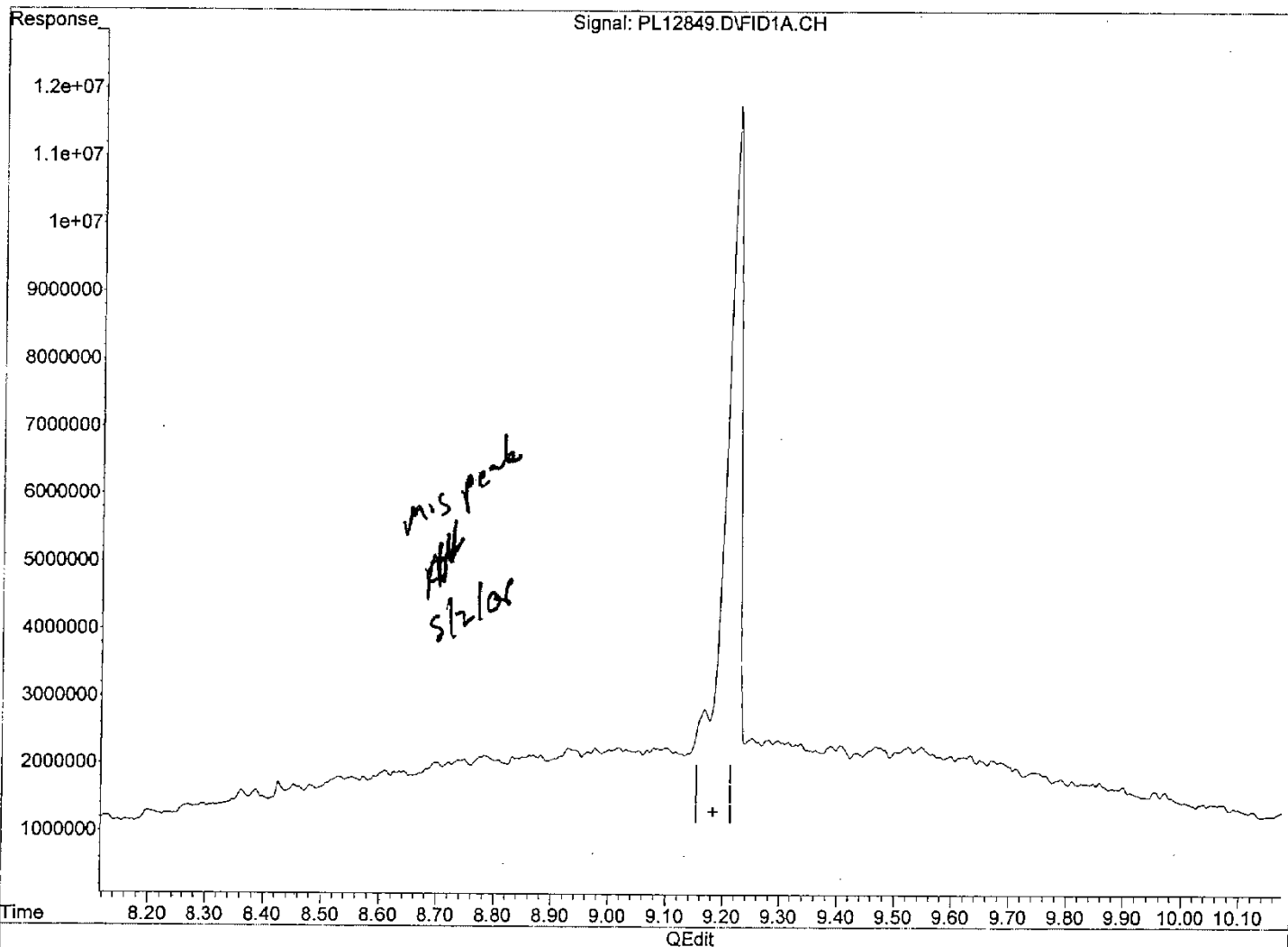
Quant Time: May 2 12:24 2006 Quant Results File: AKXF050206.RES

Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)

Title : Ak102/103 Front column

Last Update : Tue May 02 12:12:25 2006

Response via : Multiple Level Calibration



(2) n-triacontane-d62 (S) (S)

9.17min -2.555ng/ul

response -1869408

Data File : F:\DATA\050206_A\PL12850.D Vial: 9
 Acq On : 02 May 2006 12:04 Operator: RBF
 Sample : ICV 49109 500AK Inst : SEA015
 Misc : BT=S15042706 Multiplr: 1.00
 IntFile : EVENTS.E
 Quant Time: May 02 12:23:17 2006 Quant Results File: AKXF050206.RES

Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
 Title : Ak102/103 Front column
 Last Update : Tue May 02 12:12:25 2006
 Response via : Initial Calibration
 DataAcq Meth : EXTFACQ.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S o-terphenyl (S)	6.19	24199925	22.318 ng/ul
2) S n-triacontane-d62 (S)	9.17	14651228	20.022 ng/ul
Target Compounds			
3) H DRO (nC10-<nC25)	5.00	478903062	467.506 ng/ul
4) H RRO (nC25-nC36)	9.50	216364026	399.631 ng/ul

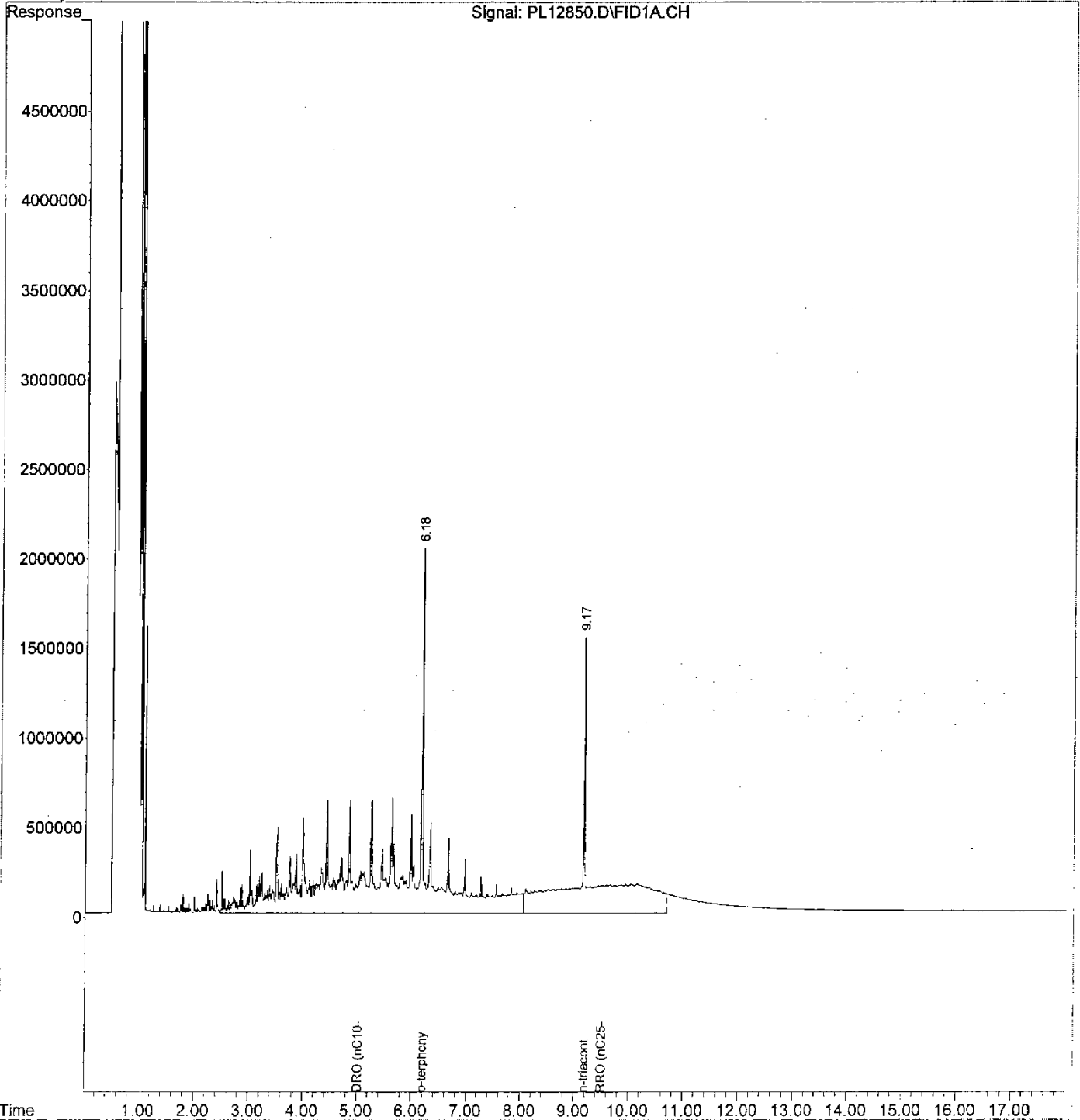
Data File : F:\DATA\050206 A\PL12850.D
Acq On : 02 May 2006 12:04
Sample : ICV 49109 500AK
Misc : BT=S15042706
IntFile : EVENTS.E
Quant Time: May 2 12:23 2006

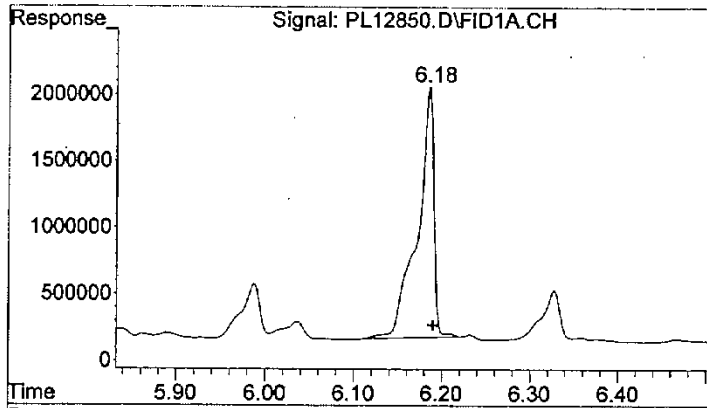
Vial: 9
Operator: RBF
Inst : SEA015
Multiplr: 1.00

Quant Results File: AKXF050206.RES

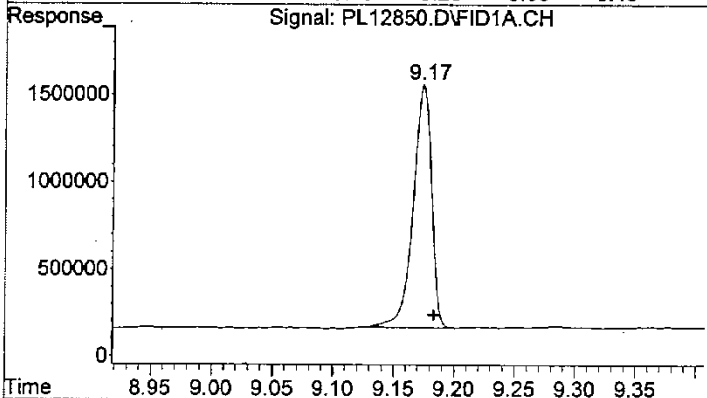
Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
Title : Ak102/103 Front column
Last Update : Tue May 02 12:12:25 2006
Response via : Multiple Level Calibration
DataAcq Meth : EXTFACQ.M

Volume Inj. :
Signal Phase :
Signal Info :

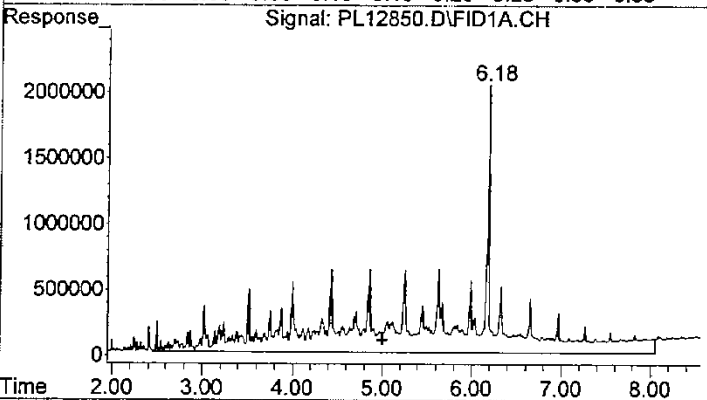




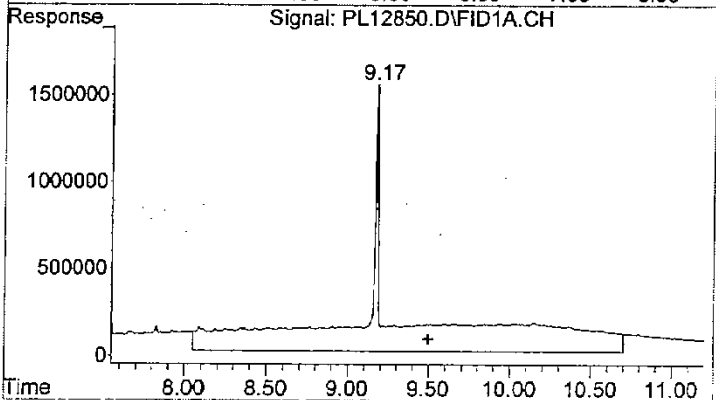
#1 o-terphenyl (S)
 R.T.: 6.185 min
 Delta R.T.: -0.005 min
 Response: 24199925
 Conc: 22.32 ng/ul



#2 n-triacontane-d62 (S)
 R.T.: 9.175 min
 Delta R.T.: -0.009 min
 Response: 14651228
 Conc: 20.02 ng/ul



#3 DRO (nC10-<nC25)
 R.T.: 5.000 min
 Delta R.T.: 0.000 min
 Response: 478903062
 Conc: 467.51 ng/ul m



#4 RRO (nC25-nC36)
 R.T.: 9.500 min
 Delta R.T.: 0.000 min
 Response: 216364026
 Conc: 399.63 ng/ul m

Data File : F:\DATA\050206_A\PL12850.D
 Acq On : 02 May 2006 12:04
 Sample : ICV 49109 500AK
 Misc : BT=S15042706
 IntFile : EVENTS.E

Vial: 9
 Operator: RBF
 Inst : SEA015
 Multiplr: 1.00

Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
 Title : Ak102/103 Front column
 Last Update : Tue May 02 12:12:25 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 S	o-terphenyl (S)	20.340	22.318	-9.7	107	0.00
2 S	n-triacontane-d62 (S)	20.140	20.022	0.6	101	0.00
3 H	DRO (nC10-<nC25)	501.300	467.506	6.7	90	0.00
4 H	RRO (nC25-nC36)	500.450	399.631	20.1	78	0.00

25%

CONTINUING CALIBRATION

Sequence Log

Directory : f:\DATA\082506_a

#	Filename	Sample Name	Date/Time
1	pl13658.d	rinse	08/25/06 10:36
2	pl13659.d	1166-88-2 n-alkane rt std	08/25/06 10:55
3	pl13660.d	ccv 50159 ak 500	08/25/06 11:15
4	pl13661.d	MB 580-10208/1-A	08/25/06 11:41
5	pl13662.d	LCS 580-10208/2-A	08/25/06 12:01
6	pl13663.d	LCSD 580-10208/3-A	08/25/06 12:27
7	pl13664.d	580-3377-H-1-A	08/25/06 12:53
8	pl13665.d	ccv 50159 ak 500	08/25/06 13:12

Data File : F:\DATA\082506_A\PL13659.D Vial: 2
 Acq On : 25 Aug 2006 10:55 Operator: RBF
 Sample : 1166-88-2 n-alkane rt std Inst : SEA015
 Misc : BT=S15080806 Multiplr: 1.00
 IntFile : EVENTS.E
 Quant Time: Aug 25 11:35:37 2006 Quant Results File: AKXF050206.RES

Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
 Title : Ak102/103 Front column
 Last Update : Wed Aug 16 08:26:33 2006
 Response via : Initial Calibration
 DataAcq Meth : FACQ.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S o-terphenyl (S)	5.93	24496181	22.592 ng/ul
2) S n-triacontane-d62 (S)	8.92	17352611	23.713 ng/ul
Target Compounds			
3) H DRO (nC10-<nC25)	5.00	76124712	68.258 ng/ul
4) E RRO (nC25-nC36)	9.50	116100332	203.924 ng/ul

Data File : F:\DATA\082506_A\PL13659.D

Vial: 2

Acq On : 25 Aug 2006 10:55

Operator: RBF

Sample : 1166-88-2 n-alkane rt std

Inst : SEA015

Misc : BT=S15080806

Multiplr: 1.00

IntFile : EVENTS.E

Quant Time: Aug 25 11:35 2006 Quant Results File: AKXF050206.RES

Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)

Title : Ak102/103 Front column

Last Update : Wed Aug 16 08:26:33 2006

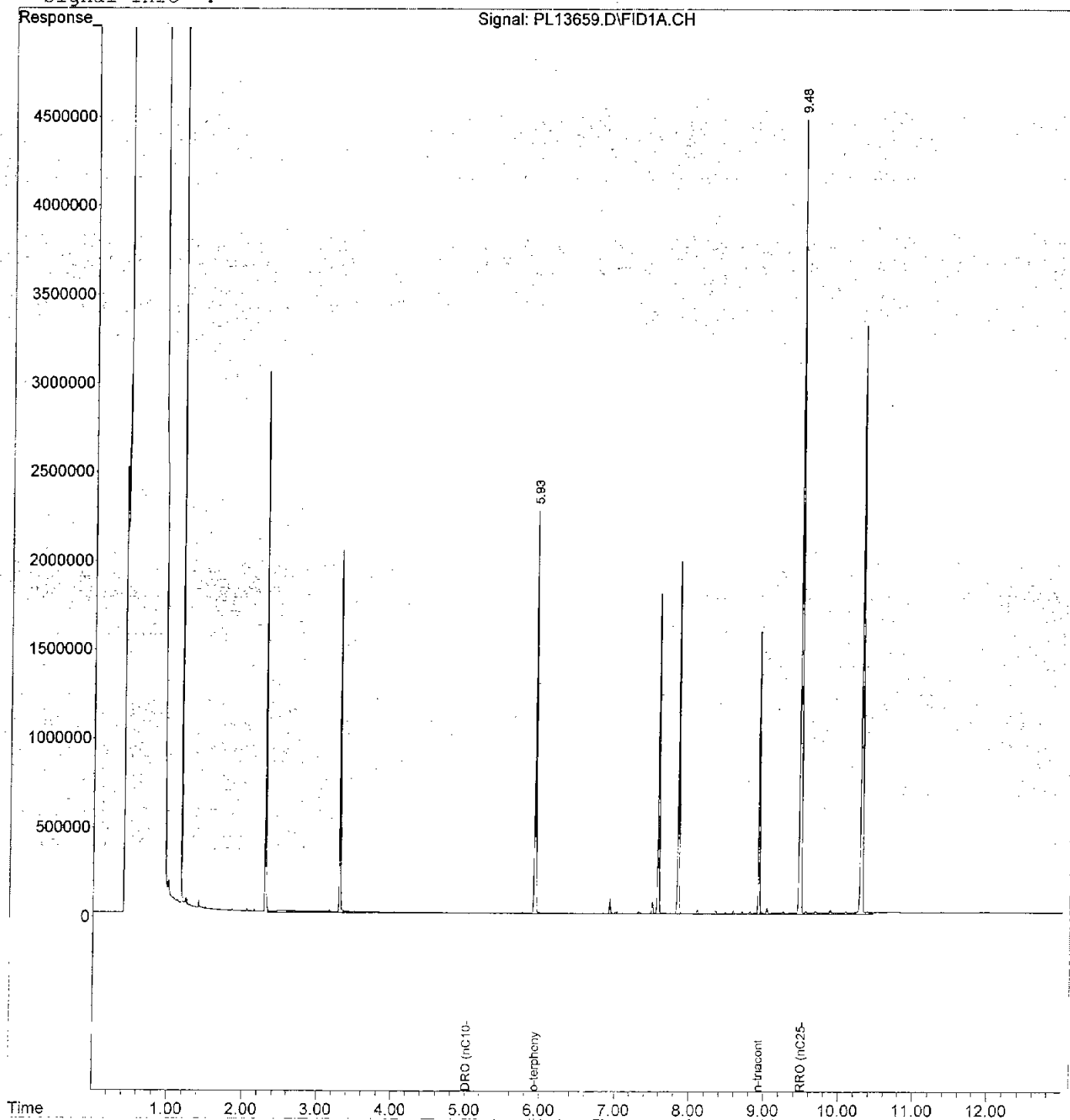
Response via : Multiple Level Calibration

DataAcq Meth : FACQ.M

Volume Inj. :

Signal Phase :

Signal Info :



#1 o-terphenyl (S)

R.T.: 5.927 min
Delta R.T.: -0.003 min
Response: 24496181
Conc: 22.59 ng/ul

#2 n-triacontane-d62 (S)

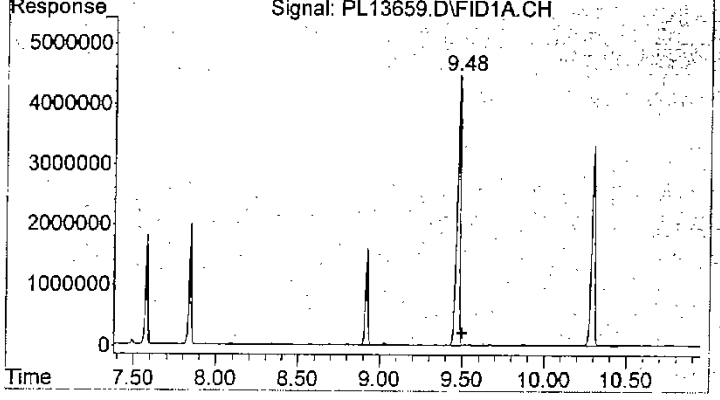
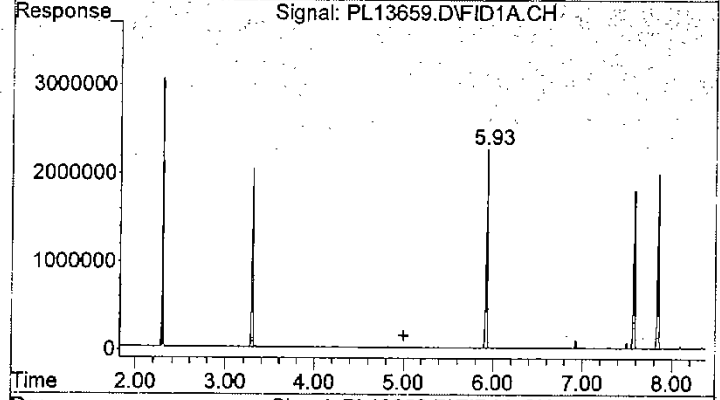
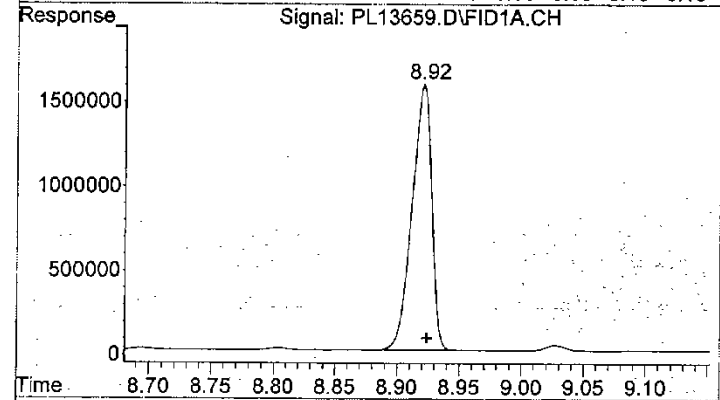
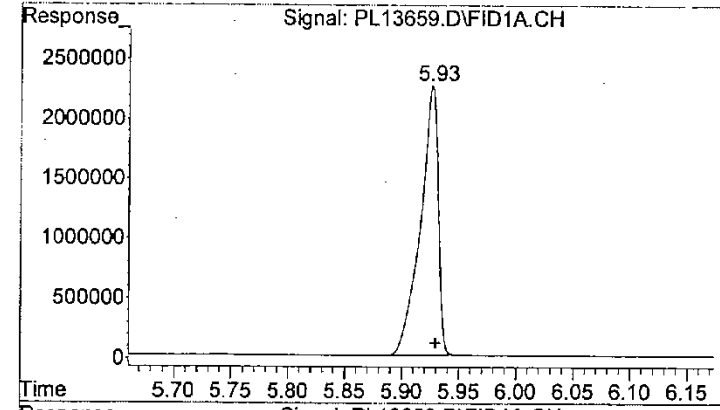
R.T.: 8.921 min
Delta R.T.: -0.003 min
Response: 17352611
Conc: 23.71 ng/ul

#3 DRO (nC10-<nC25)

R.T.: 5.000 min
Delta R.T.: 0.000 min
Response: 76124712
Conc: 68.26 ng/ul m

#4 RRO (nC25-nC36)

R.T.: 9.500 min
Delta R.T.: 0.000 min
Response: 116100332
Conc: 203.92 ng/ul m



Data File : F:\DATA\082506_A\PL13660.D Vial: 3
Acq On : 25 Aug 2006 11:15 Operator: RBF
Sample : ccv 50159 ak 500 Inst : SEA015
Misc : BT=S15082406a Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 25 11:35:40 2006 Quant Results File: AKXF050206.RES

Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
Title : Ak102/103 Front column
Last Update : Wed Aug 16 08:26:33 2006
Response via : Initial Calibration
DataAcq Meth : EXTFACQ.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S o-terphenyl (S)	5.93	19347124	17.843 ng/ul
2) S n-triacontane-d62 (S)	8.92	15382955	21.022 ng/ul
Target Compounds			
3) H DRO (nC10-<nC25)	5.00	478561893	467.168 ng/ul
4) H RRO (nC25-nC36)	9.50	273334591	510.833 ng/ul

Data File : F:\DATA\082506_A\PL13660.D

Vial: 3

Acq On : 25 Aug 2006 11:15

Operator: RBF

Sample : ccv 50159 ak 500

Inst : SEA015

Misc : BT=S15082406a

Multiplr: 1.00

IntFile : EVENTS.E

Quant Time: Aug 25 11:35 2006 Quant Results File: AKXF050206.RES

Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)

Title : Ak102/103 Front column

Last Update : Wed Aug 16 08:26:33 2006

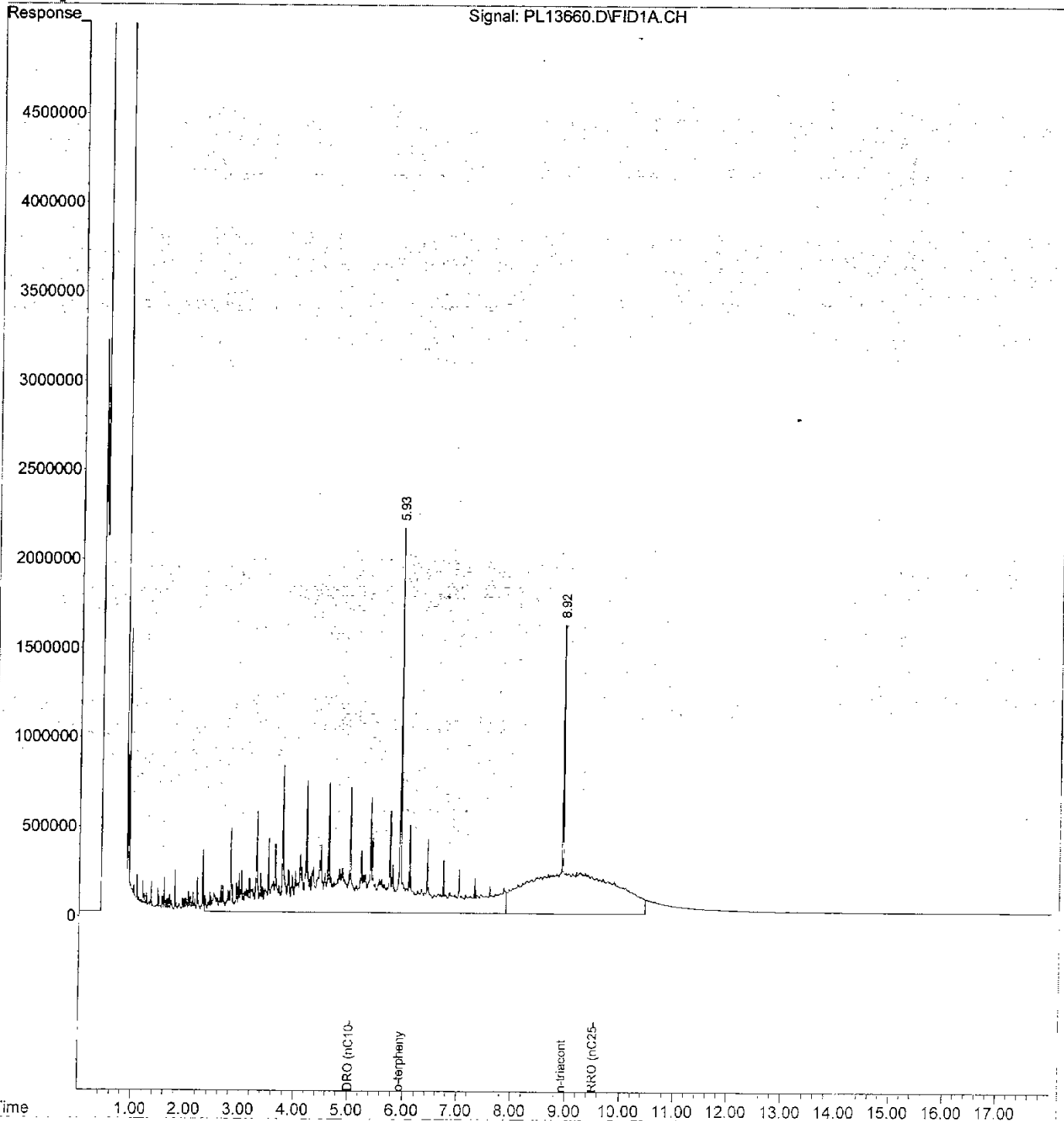
Response via : Multiple Level Calibration

DataAcq Meth : EXTFACT.M

Volume Inj. :

Signal Phase :

Signal Info :



#1 o-terphenyl (S)

R.T.: 5.928 min
Delta R.T.: -0.002 min
Response: 19347124
Conc: 17.84 ng/ul

#2 n-triacontane-d62 (S)

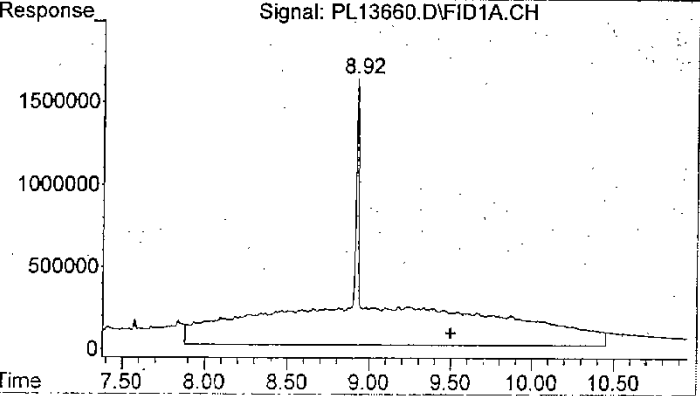
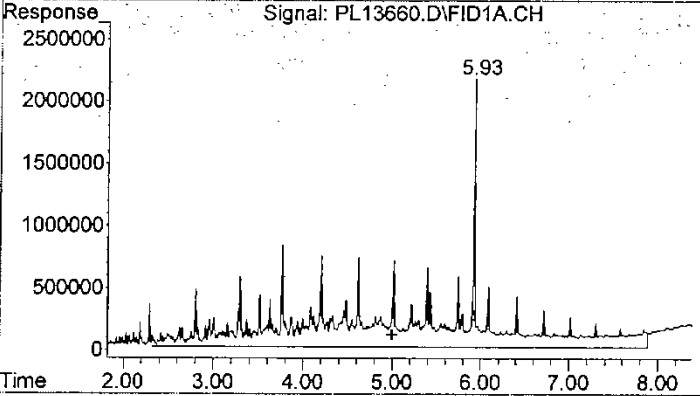
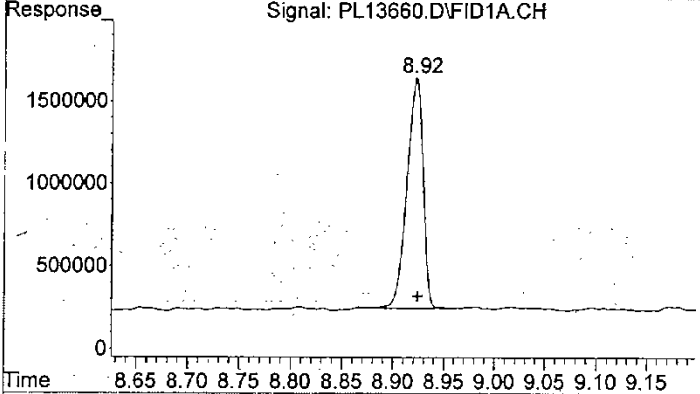
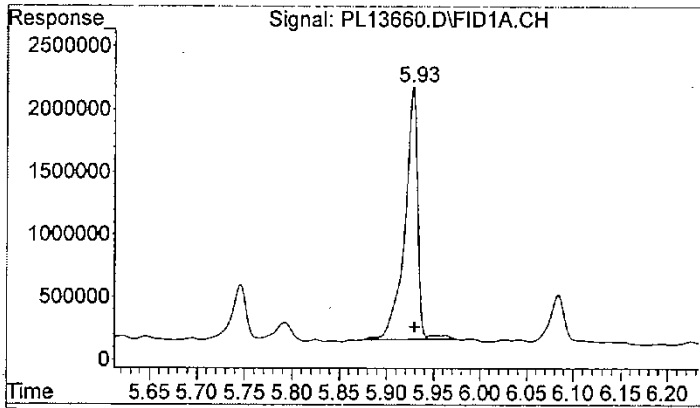
R.T.: 8.922 min
Delta R.T.: -0.002 min
Response: 15382955
Conc: 21.02 ng/ul

#3 DRO (nC10-<nC25)

R.T.: 5.000 min
Delta R.T.: 0.000 min
Response: 478561893
Conc: 467.17 ng/ul m

#4 RRO (nC25-nC36)

R.T.: 9.500 min
Delta R.T.: 0.000 min
Response: 273334591
Conc: 510.83 ng/ul m



Data File : F:\DATA\082506_A\PL13665.D Vial: 8
 Acq On : 08-25-2006 01:12:57 PM Operator: RBF
 Sample : ccv 50159 ak 500 Inst : SEA015
 Misc : BT=S15082506 Multiplr: 1.00
 IntFile : EVENTS.E
 Quant Time: Aug 25 14:16:44 2006 Quant Results File: AKXF050206.RES

Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
 Title : Ak102/103 Front column
 Last Update : Wed Aug 16 08:26:33 2006
 Response via : Initial Calibration
 DataAcq Meth : EXTFACQ.M

Volume Inj. :
 Signal Phase :
 Signal Info :

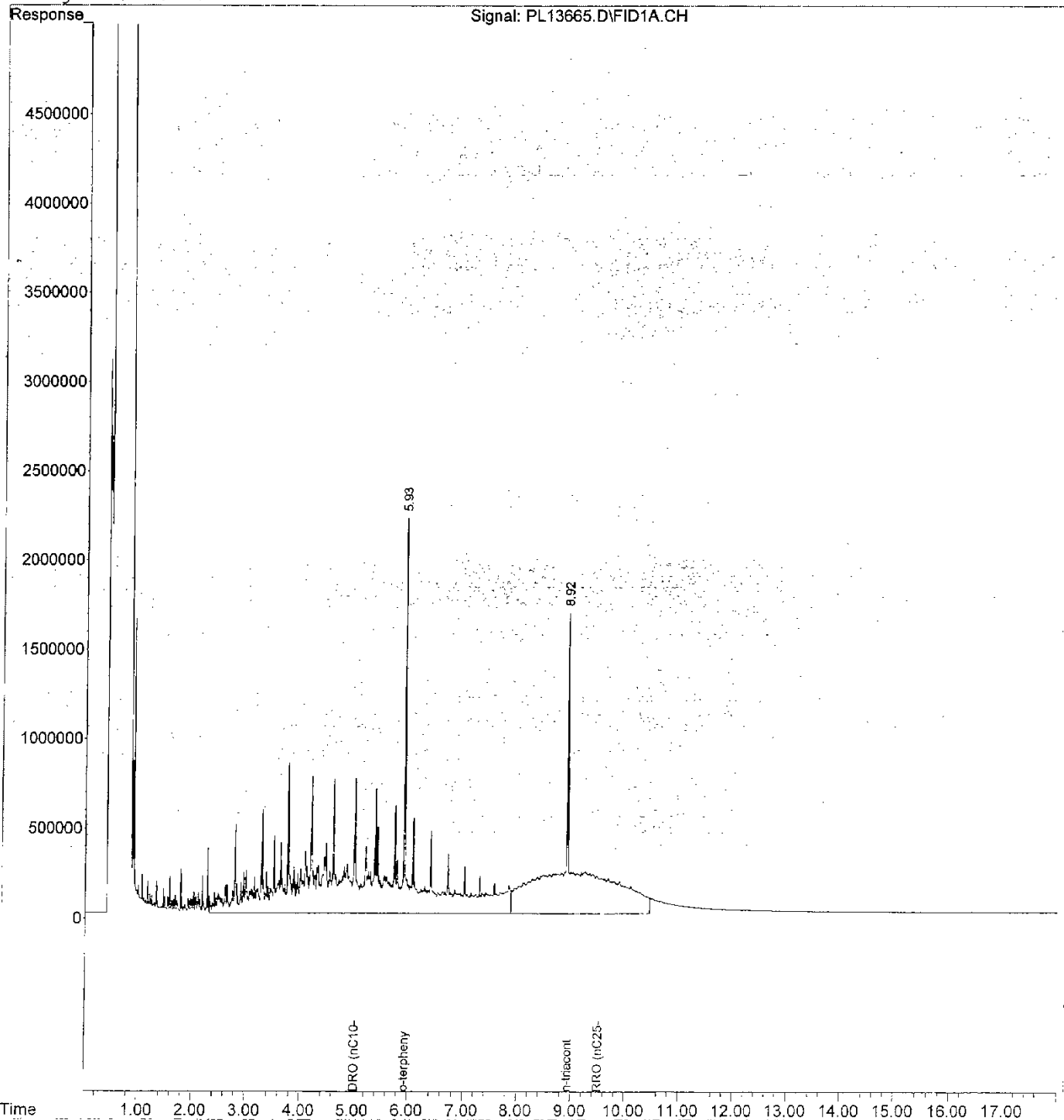
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S o-terphenyl (S)	5.93	20520012	18.924 ng/ul
2) S n-triacontane-d62 (S)	8.92	15369389	21.003 ng/ul
Target Compounds			
3) H DRO (nC10-<nC25)	5.00	520203670	508.444 ng/ul
4) H RRO (nC25-nC36)	9.50	277702476	519.359 ng/ul

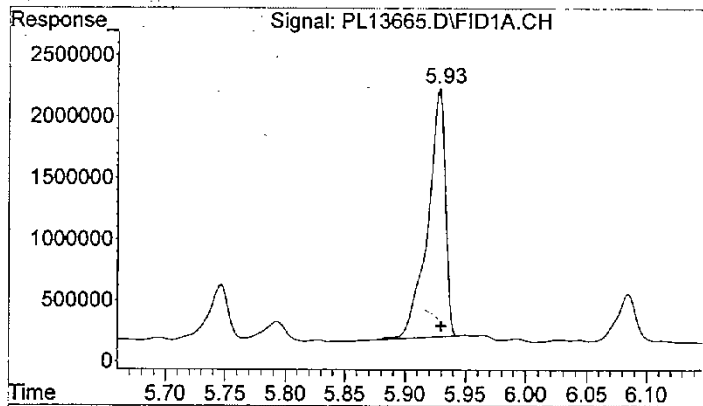
Data File : F:\DATA\082506_A\PL13665.D Vial: 8
Acq On : 08-25-2006 01:12:57 PM Operator: RBF
Sample : ccv 50159 ak 500 Inst : SEA015
Misc : BT=S15082506 Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: Aug 25 14:16 2006 Quant Results File: AKXF050206.RES

Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
Title : Ak102/103 Front column
Last Update : Wed Aug 16 08:26:33 2006
Response via : Multiple Level Calibration
DataAcq Meth : EXTFACTQ.M

Volume Inj. :
Signal Phase :
Signal Info :

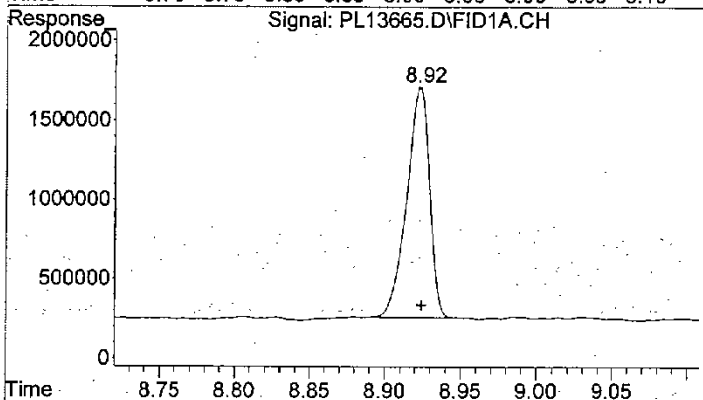


DRO (nC10-
p-terpheny
n-triacont
DRO (nC25-



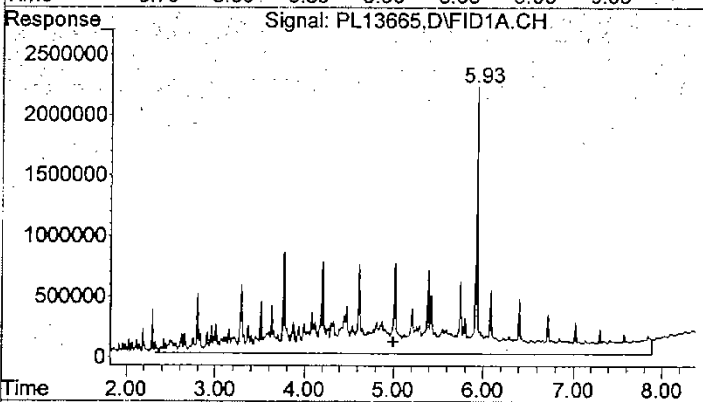
#1 o-terphenyl (S)

R.T.: 5.929 min
 Delta R.T.: -0.001 min
 Response: 20520012
 Conc: 18.92 ng/ul



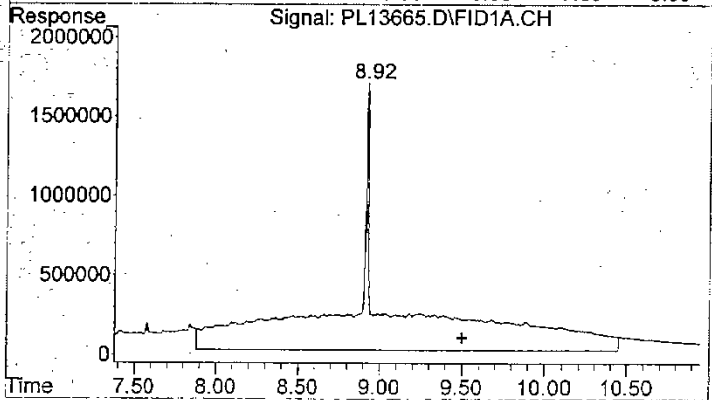
#2 n-triacontane-d62 (S)

R.T.: 8.923 min
 Delta R.T.: 0.000 min
 Response: 15369389
 Conc: 21.00 ng/ul



#3 DRO (nC10-<nC25)

R.T.: 5.000 min
 Delta R.T.: 0.000 min
 Response: 520203670
 Conc: 508.44 ng/ul m



#4 RRO (nC25-nC36)

R.T.: 9.500 min
 Delta R.T.: 0.000 min
 Response: 277702476
 Conc: 519.36 ng/ul m

Data File : F:\DATA\082506_A\PL13660.D Vial: 3
 Acq On : 25 Aug 2006 11:15 Operator: RBF
 Sample : ccv 50159 ak 500 Inst : SEA015
 Misc : BT=S15082406a Multiplr: 1.00
 IntFile : EVENTS.E
 Quant Time: Aug 25 11:35:40 2006 Quant Results File: AKXF050206.RES

Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
 Title : Ak102/103 Front column
 Last Update : Wed Aug 16 08:26:33 2006
 Response via : Initial Calibration
 DataAcq Meth : EXTFACQ.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

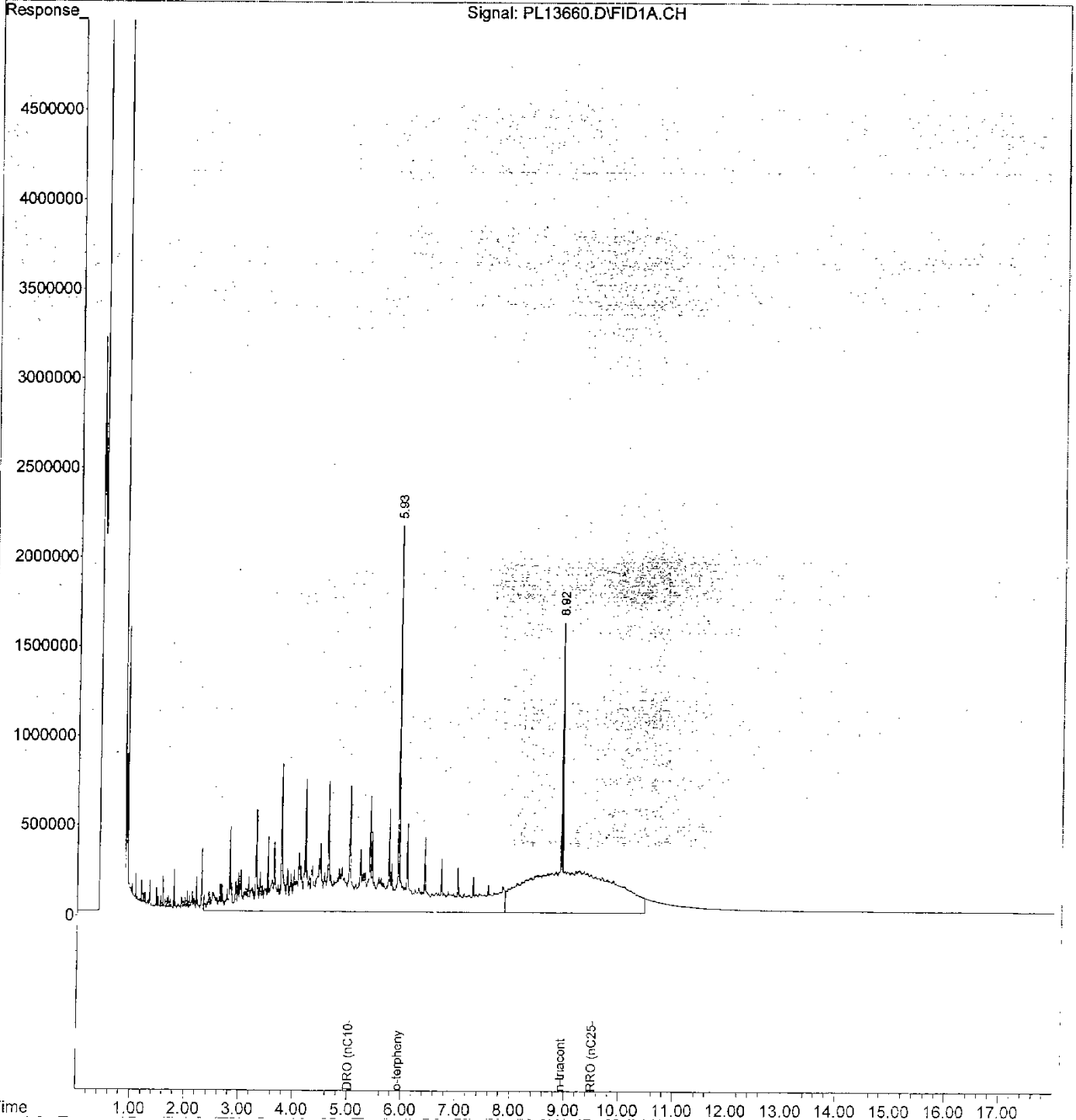
System Monitoring Compounds			
1) S o-terphenyl (S)	5.93	19347124	17.843 ng/ul
2) S n-triacontane-d62 (S)	8.92	15382955	21.022 ng/ul
Target Compounds			
3) H DRO (nC10-<nC25)	5.00	478561893	467.168 ng/ul
4) H RRO (nC25-nC36)	9.50	273334591	510.833 ng/ul

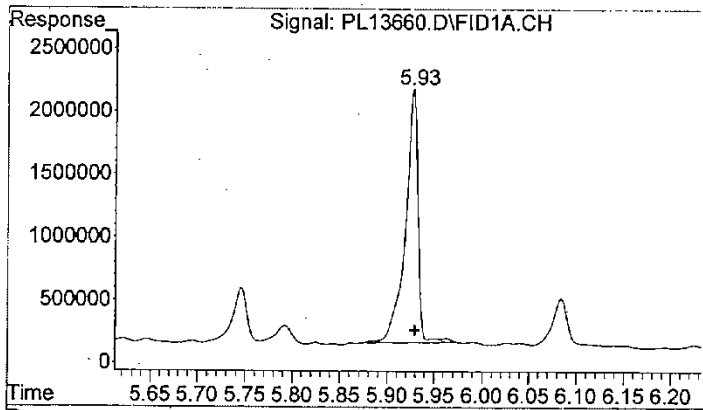
Data File : F:\DATA\082506_A\PL13660.D
Acq On : 25 Aug 2006 11:15
Sample : ccv 50159 ak 500
Misc : BT=S15082406a
IntFile : EVENTS.E
Quant Time: Aug 25 11:35 2006

Vial: 3
Operator: RBF
Inst : SEA015
Multiplr: 1.00

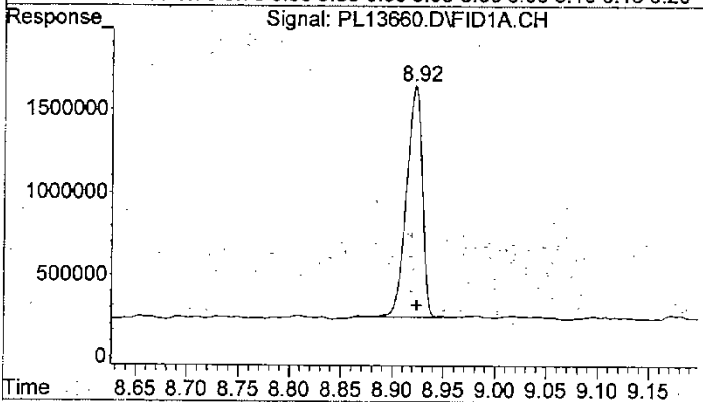
Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
Title : Ak102/103 Front column
Last Update : Wed Aug 16 08:26:33 2006
Response via : Multiple Level Calibration
DataAcq Meth : EXTFACQ.M

Volume Inj. :
Signal Phase :
Signal Info :

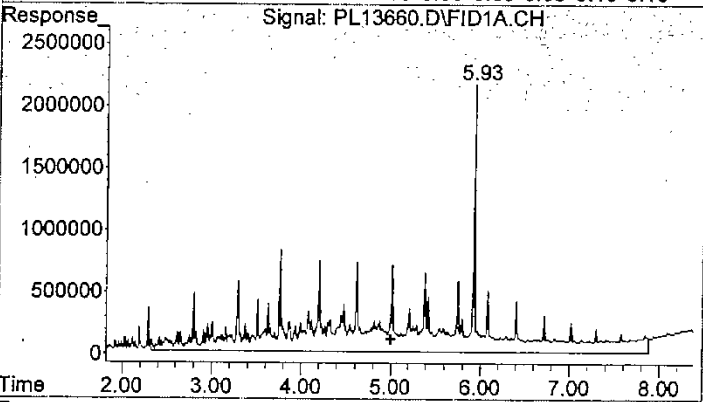




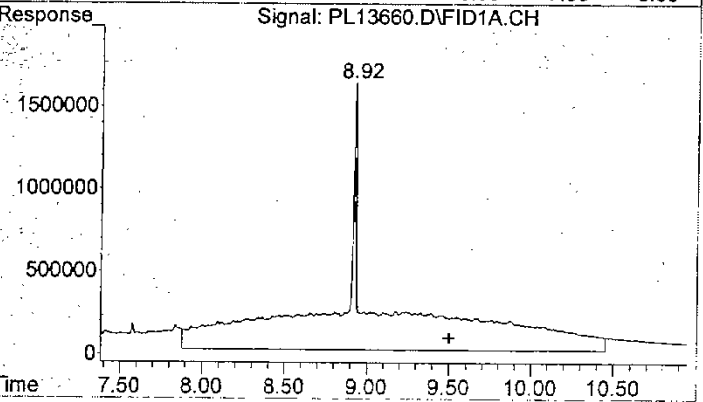
#1 o-terphenyl (S)
 R.T.: 5.928 min
 Delta R.T.: -0.002 min
 Response: 19347124
 Conc: 17.84 ng/ul



#2 n-triacontane-d62 (S)
 R.T.: 8.922 min
 Delta R.T.: -0.002 min
 Response: 15382955
 Conc: 21.02 ng/ul



#3 DRO (nC10-<nC25)
 R.T.: 5.000 min
 Delta R.T.: 0.000 min
 Response: 478561893
 Conc: 467.17 ng/ul m



#4 RRO (nC25-nC36)
 R.T.: 9.500 min
 Delta R.T.: 0.000 min
 Response: 273334591
 Conc: 510.83 ng/ul m

Evaluate Continuing Calibration Report

Data File : F:\DATA\082506_A\PL13660.D Vial: 3
 Acq On : 25 Aug 2006 11:15 Operator: RBF
 Sample : ccv 50159 ak 500 Inst : SEA015
 Misc : BT=S15082406a Multiplr: 1.00
 IntFile : EVENTS.E

Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
 Title : Ak102/103 Front column
 Last Update : Wed Aug 16 08:26:33 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 S	o-terphenyl (S)	20.340	17.843	12.3	85	0.00
2 S	n-triacontane-d62 (S)	20.140	21.022	-4.4	106	0.00
3 H	DRO (nC10-<nC25)	501.300	467.168	6.8	90	0.00
4 H	RRO (nC25-nC36)	500.450	510.833	-2.1	99	0.00

Data File : F:\DATA\082506_A\PL13660.D
Acq On : 25 Aug 2006 11:15
Sample : ccv 50159 ak 500
Misc : BT=S15082406a
IntFile : EVENTS.E

Vial: 3
Operator: RBF
Inst : SEA015
Multiplr: 1.00

Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
Title : Ak102/103 Front column
Last Update : Wed Aug 16 08:26:33 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area	% Dev(min)
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Data File : F:\DATA\082506 A\PL13665.D Vial: 8
 Acq On : 08-25-2006 01:12:57 PM Operator: RBF
 Sample : ccv 50159 ak 500 Inst : SEA015
 Misc : BT=S15082506 Multiplr: 1.00
 IntFile : EVENTS.E
 Quant Time: Aug 25 14:16:44 2006 Quant Results File: AKXF050206.RES

Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
 Title : Ak102/103 Front column
 Last Update : Wed Aug 16 08:26:33 2006
 Response via : Initial Calibration
 DataAcq Meth : EXTFACQ.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S o-terphenyl (S)	5.93	20520012	18.924 ng/ul
2) S n-triacontane-d62 (S)	8.92	15369389	21.003 ng/ul
Target Compounds			
3) H DRO (nC10-<nC25)	5.00	520203670	508.444 ng/ul
4) H RRO (nC25-nC36)	9.50	277702476	519.359 ng/ul

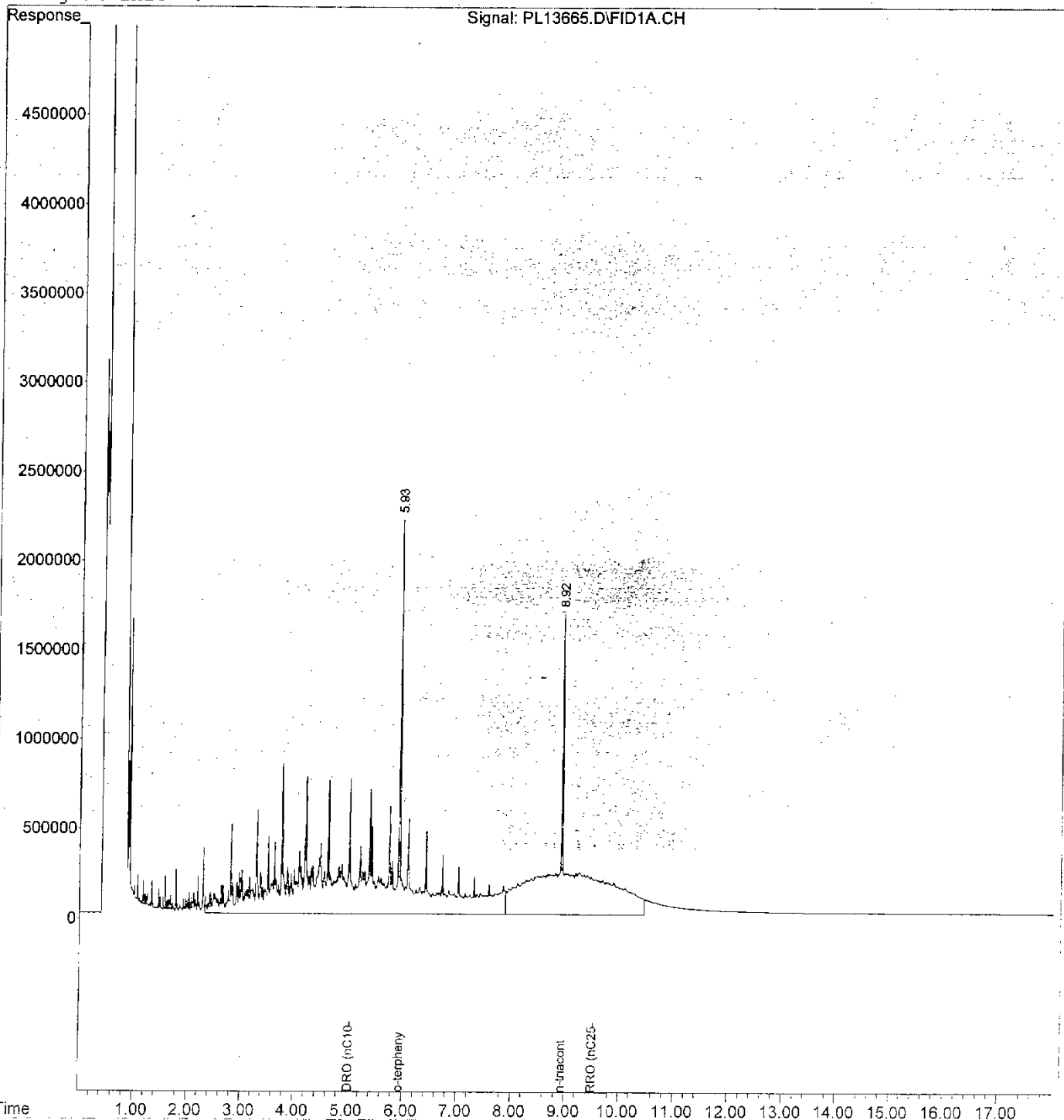
Data File : F:\DATA\082506_A\PL13665.D
Acq On : 08-25-2006 01:12:57 PM
Sample : ccv 50159 ak 500
Misc : BT=S15082506
IntFile : EVENTS.E

Vial: 8
Operator: RBF
Inst : SEA015
Multiplr: 1.00

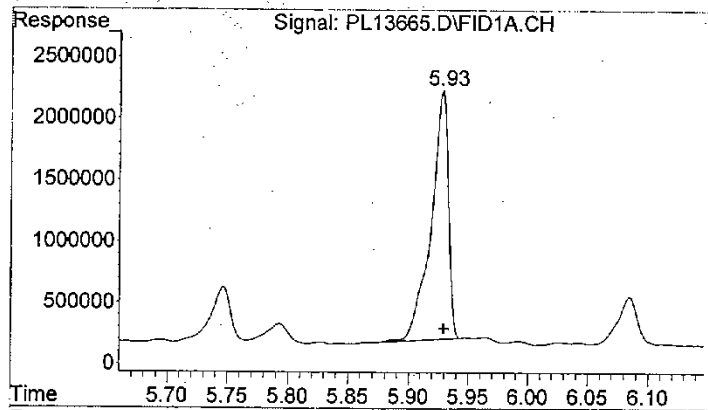
Quant Time: Aug 25 14:16 2006 Quant Results File: AKXF050206.RES

Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
Title : Ak102/103 Front column
Last Update : Wed Aug 16 08:26:33 2006
Response via : Multiple Level Calibration
DataAcq Meth : EXTFACQ.M

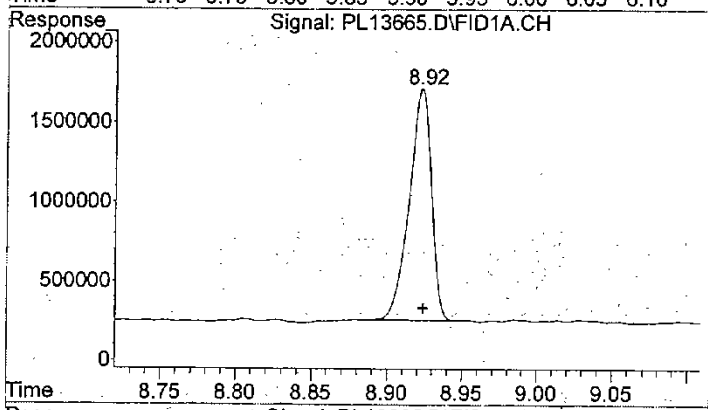
Volume Inj. :
Signal Phase :
Signal Info :



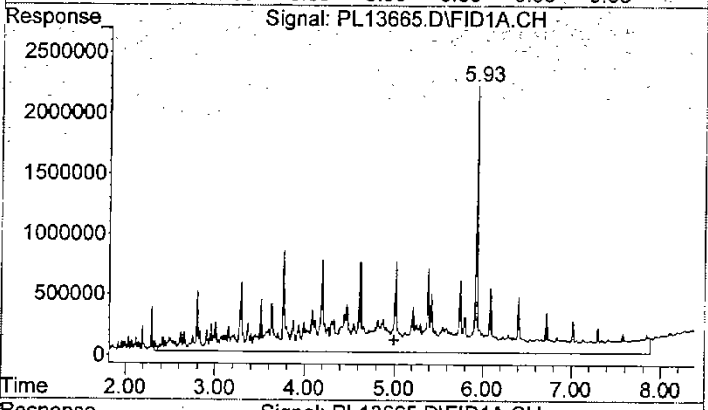
DRO (nC10)
o-terphenyl
n-triacont
DRO (nC25)



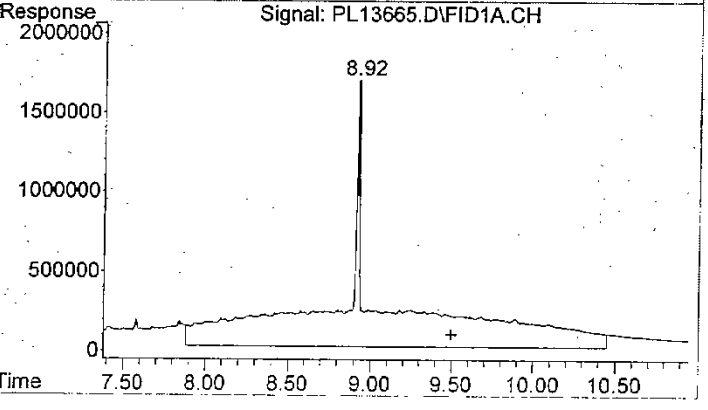
#1 o-terphenyl (S)
 R.T.: 5.929 min
 Delta R.T.: -0.001 min
 Response: 20520012
 Conc: 18.92 ng/ul



#2 n-triacontane-d62 (S)
 R.T.: 8.923 min
 Delta R.T.: 0.000 min
 Response: 15369389
 Conc: 21.00 ng/ul



#3 DRO (nC10-<nC25)
 R.T.: 5.000 min
 Delta R.T.: 0.000 min
 Response: 520203670
 Conc: 508.44 ng/ul m



#4 RRO (nC25-nC36)
 R.T.: 9.500 min
 Delta R.T.: 0.000 min
 Response: 277702476
 Conc: 519.36 ng/ul m

Evaluate Continuing Calibration Report

Data File : F:\DATA\082506_A\PL13665.D
 Acq On : 08-25-2006 01:12:57 PM
 Sample : ccv 50159 ak 500
 Misc : BT=S15082506
 IntFile : EVENTS.E

Vial: 8
 Operator: RBF
 Inst : SEA015
 Multiplr: 1.00

Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
 Title : Ak102/103 Front column
 Last Update : Wed Aug 16 08:26:33 2006
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 S o-terphenyl (S)	20.340	18.924	7.0	91	0.00
2 S n-triacontane-d62 (S)	20.140	21.003	-4.3	106	0.00
3 H DRO (nC10-<nC25)	501.300	508.444	-1.4	98	0.00
4 H RRO (nC25-nC36)	500.450	519.359	-3.8	101	0.00

Evaluate Continuing Calibration Report - Not Found

Data File : F:\DATA\082506 A\PL13665.D
Acq On : 08-25-2006 01:12:57 PM
Sample : ccv 50159 ak 500
Misc : BT=S15082506
IntFile : EVENTS.E

Vial: 8
Operator: RBF
Inst : SEA015
Multiplr: 1.00

Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
Title : Ak102/103 Front column
Last Update : Wed Aug 16 08:26:33 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
----------	--------	-------	------	-------	----------

METHOD BLANK

Data File : F:\DATA\082506_A\PL13661.D Vial: 4
 Acq On : 25 Aug 2006 11:41 Operator: RBF
 Sample : MB 580-10208/1-A Inst : SEA015
 Misc : BT=S15082506 Multiplr: 1.00
 IntFile : EVENTS.E
 Quant Time: Aug 25 14:16:31 2006 Quant Results File: AKXF050206.RES

Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
 Title : Ak102/103 Front column
 Last Update : Wed Aug 16 08:26:33 2006
 Response via : Initial Calibration
 DataAcq Meth : FACQ.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S o-terphenyl (S)	5.93	20299023	18.721 ng/ul
2) S n-triacontane-d62 (S)	8.92	14532032	19.859 ng/ul
Target Compounds			
3) H DRO. (nC10-<nC25)	5.00	13774041	6.454 ng/ul

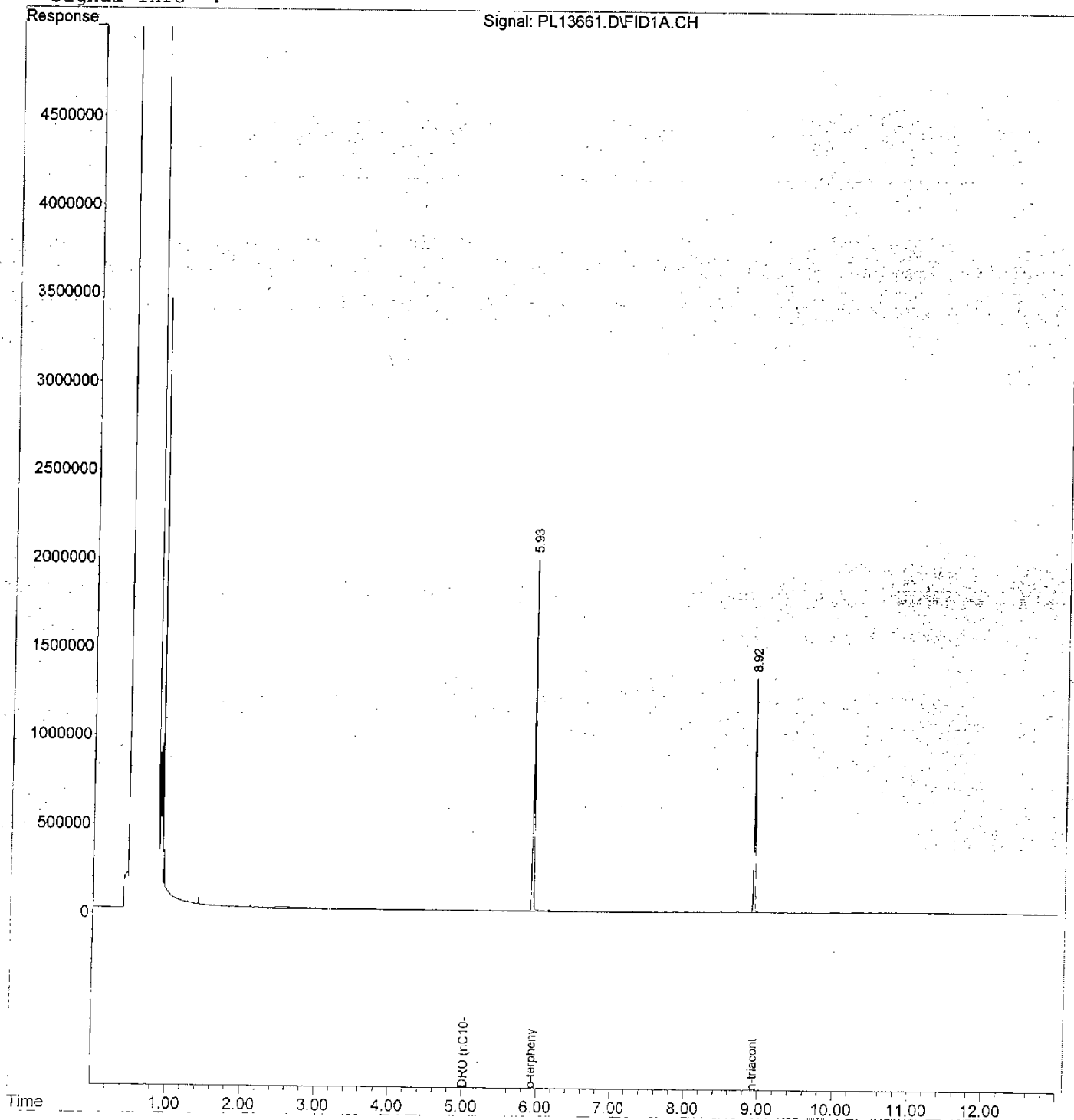
Data File : F:\DATA\082506_A\PL13661.D
Acq On : 25 Aug 2006 11:41
Sample : MB 580-10208/1-A
Misc : BT=S15082506
IntFile : EVENTS.E

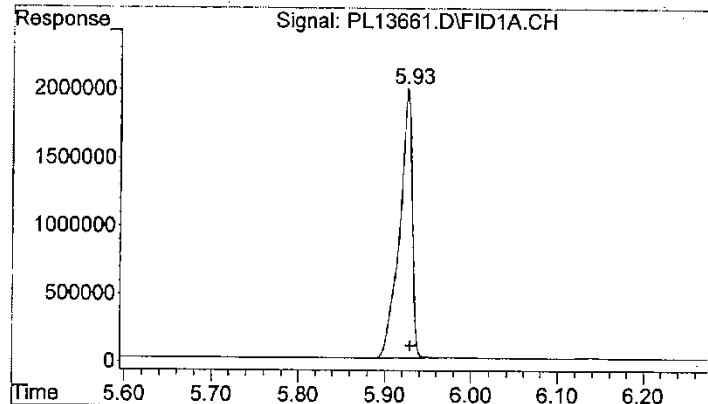
Vial: 4
Operator: RBF
Inst : SEA015
Multiplr: 1.00

Quant Time: Aug 25 14:16 2006 Quant Results File: AKXF050206.RES

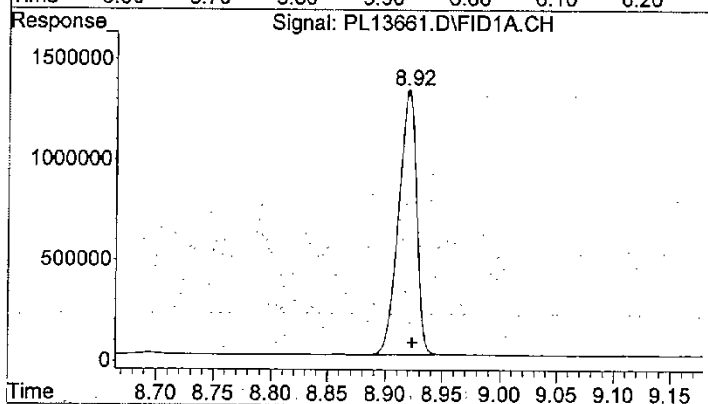
Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
Title : Ak102/103 Front column
Last Update : Wed Aug 16 08:26:33 2006
Response via : Multiple Level Calibration
DataAcq Meth : FACQ.M

Volume Inj. :
Signal Phase :
Signal Info :

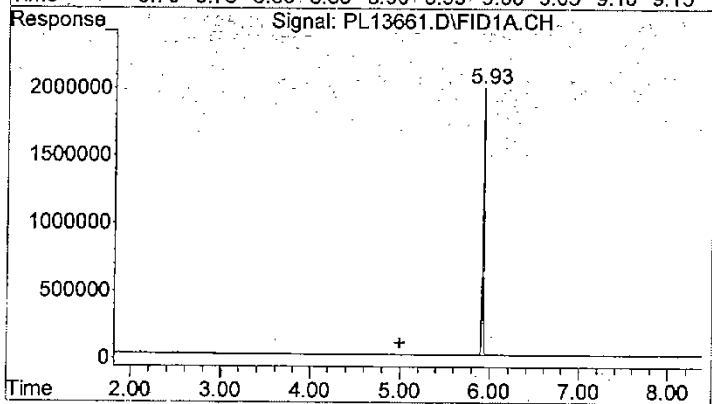




#1 o-terphenyl (S)
 R.T.: 5.926 min
 Delta R.T.: -0.004 min
 Response: 20299023
 Conc: 18.72 ng/ul



#2 n-triacontane-d62 (S)
 R.T.: 8.920 min
 Delta R.T.: -0.004 min
 Response: 14532032
 Conc: 19.86 ng/ul



#3 DRO (nC10-<nC25)
 R.T.: 5.000 min
 Delta R.T.: 0.000 min
 Response: 13774041
 Conc: 6.45 ng/ul m

BLANK SPIKE

Data File : F:\DATA\082506_A\PL13662.D Vial: 5
 Acq On : 25 Aug 2006 12:01 Operator: RBF
 Sample : LCS 580-10208/2-A Inst : SEA015
 Misc : BT=S15082506 Multiplr: 1.00
 IntFile : EVENTS.E
 Quant Time: Aug 25 14:16:35 2006 Quant Results File: AKXF050206.RES

Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
 Title : Ak102/103 Front column
 Last Update : Wed Aug 16 08:26:33 2006
 Response via : Initial Calibration
 DataAcq Meth : EXTFACQ.M

Volume Inj. :
 Signal Phase :
 Signal Info. :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) S o-terphenyl (S)	5.93	21323789	19.666 ng/ul
2) S n-triacontane-d62 (S)	8.92	14042148	19.189 ng/ul
Target Compounds			
3) H DRO (nC10-<nC25)	5.00	488945442	477.460 ng/ul
4) H RRO (nC25-nC36)	9.50	223911354	414.363 ng/ul

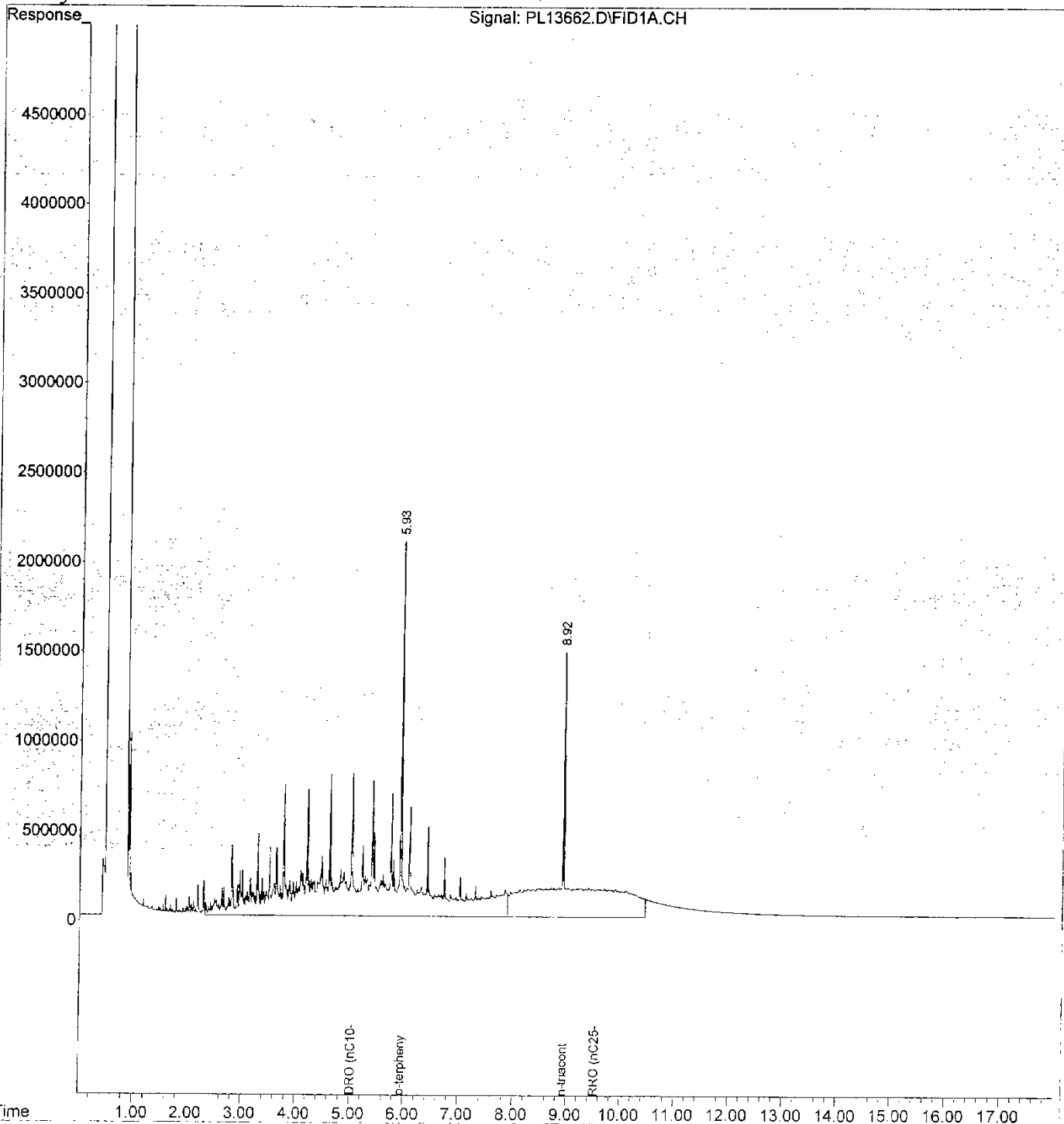
Data File : F:\DATA\082506_A\PL13662.D
Acq On : 25 Aug 2006 12:01
Sample : LCS 580-10208/2-A
Misc : BT=S15082506
IntFile : EVENTS.E
Quant Time: Aug 25 14:16 2006

Vial: 5
Operator: RBF
Inst : SEA015
Multiplr: 1.00

Quant Results File: AKXF050206.RES

Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
Title : Ak102/103 Front column
Last Update : Wed Aug 16 08:26:33 2006
Response via : Multiple Level Calibration
DataAcq Meth : EXTFACQ.M

Volume Inj. :
Signal Phase :
Signal Info :



#1 o-terphenyl (S)

R.T.: 5.928 min
Delta R.T.: -0.002 min
Response: 21323789
Conc: 19.67 ng/ul

#2 n-triacontane-d62 (S)

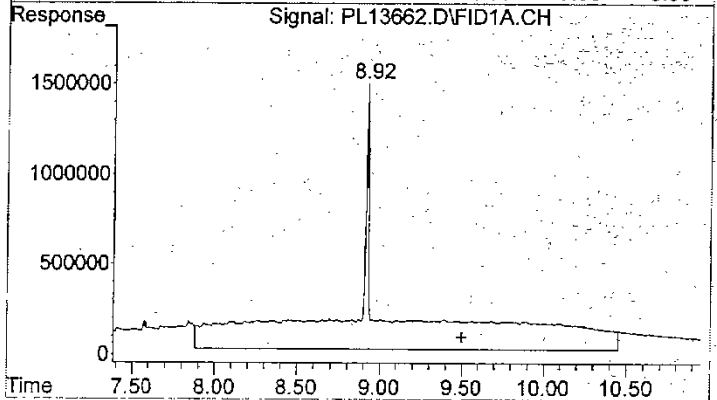
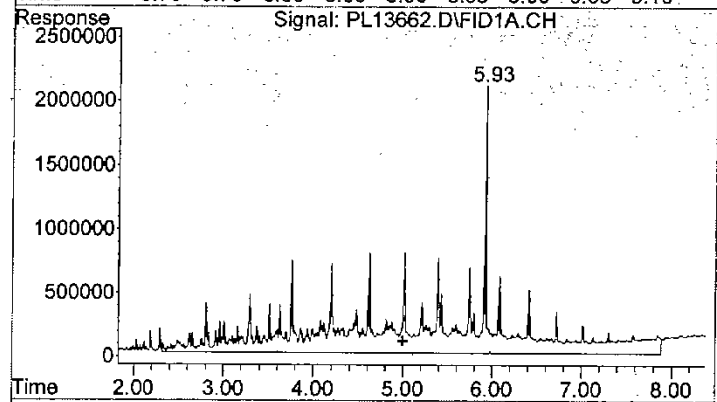
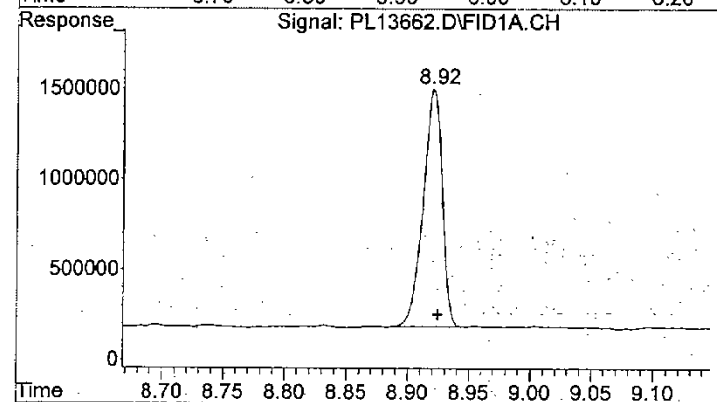
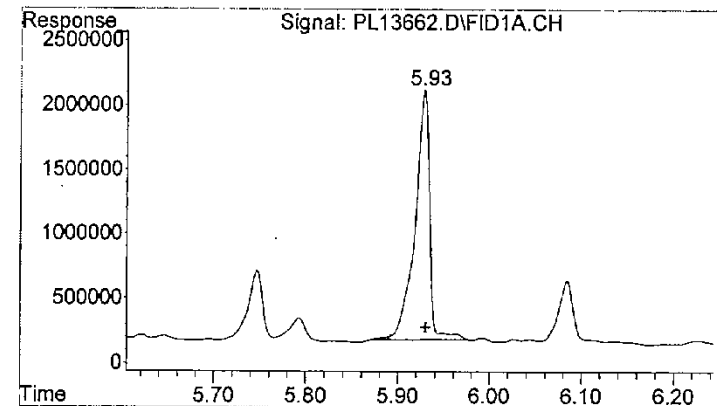
R.T.: 8.921 min
Delta R.T.: -0.003 min
Response: 14042148
Conc: 19.19 ng/ul

#3 DRO (nC10-<nC25)

R.T.: 5.000 min
Delta R.T.: 0.000 min
Response: 488945442
Conc: 477.46 ng/ul m

#4 RRO (nC25-nC36)

R.T.: 9.500 min
Delta R.T.: 0.000 min
Response: 223911354
Conc: 414.36 ng/ul m



Data File : F:\DATA\082506_A\PL13663.D Vial: 6
 Acq On : 25 Aug 2006 12:27 Operator: RBF
 Sample : LCSD 580-10208/3-A Inst : SEA015
 Misc : BT=S15082506 Multiplr: 1.00
 IntFile : EVENTS.E
 Quant Time: Aug 25 14:16:38 2006 Quant Results File: AKXF050206.RES

Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
 Title : Ak102/103 Front column
 Last Update : Wed Aug 16 08:26:33 2006
 Response via : Initial Calibration
 DataAcq Meth : EXTFACQ.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S o-terphenyl (S)	5.93	18501228	17.063 ng/ul
2) S n-triacontane-d62 (S)	8.92	13718507	18.747 ng/ul
Target Compounds			
3) H DRO (nC10-<nC25)	5.00	459924381	448.694 ng/ul
4) H RRO (nC25-nC36)	9.50	216902781	400.682 ng/ul

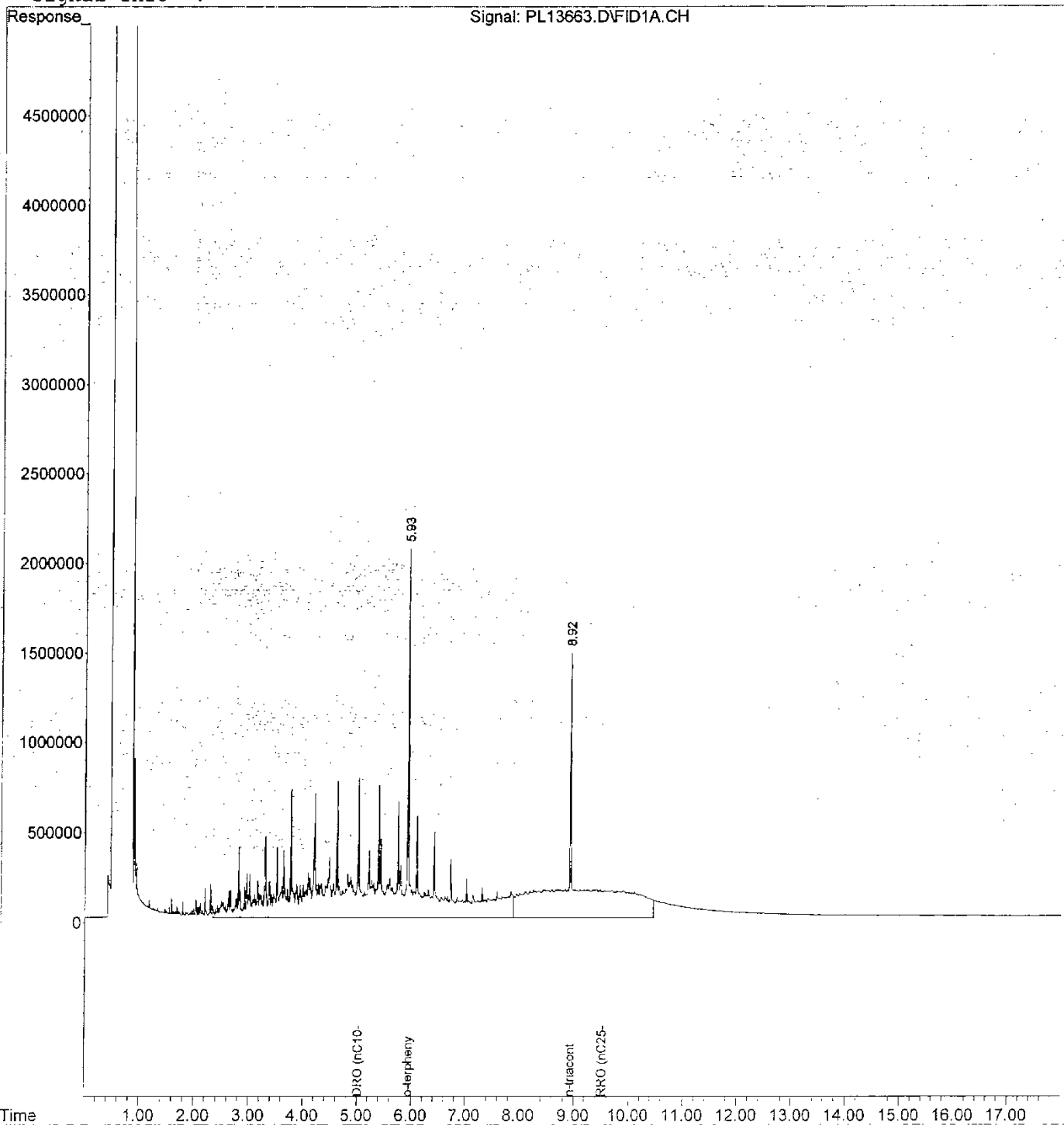
Data File : F:\DATA\082506_A\PL13663.D
Acq On : 25 Aug 2006 12:27
Sample : LCSD 580-10208/3-A
Misc : BT=S15082506
IntFile : EVENTS.E
Quant Time: Aug 25 14:16 2006

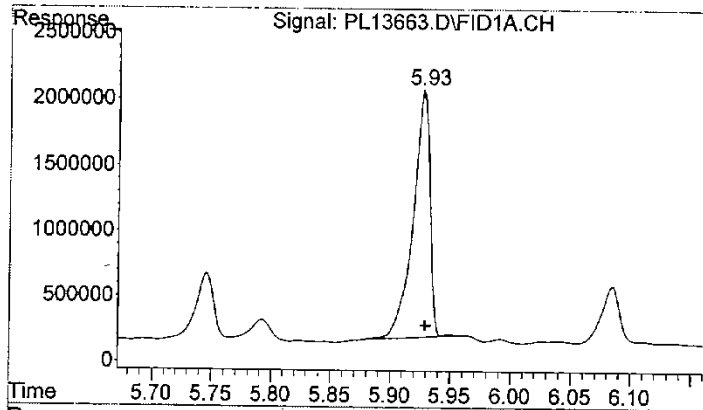
Vial: 6
Operator: RBF
Inst : SEA015
Multiplr: 1.00

Quant Results File: AKXF050206.RES

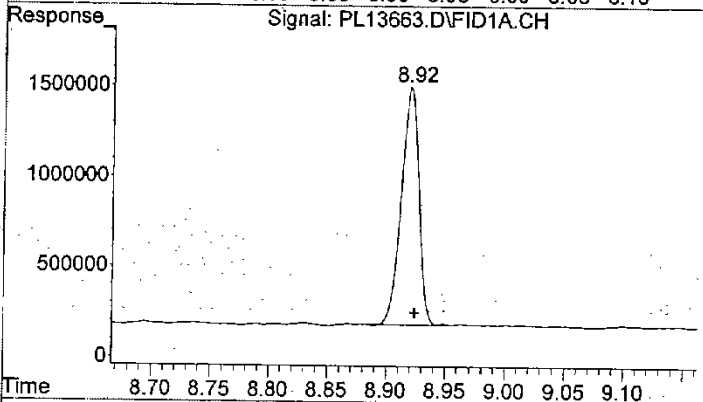
Quant Method : F:\METHODS\AKXF050206.M (Chemstation Integrator)
Title : Ak102/103 Front column
Last Update : Wed Aug 16 08:26:33 2006
Response via : Multiple Level Calibration
DataAcq Meth : EXTACQ.M

Volume Inj. :
Signal Phase :
Signal Info :

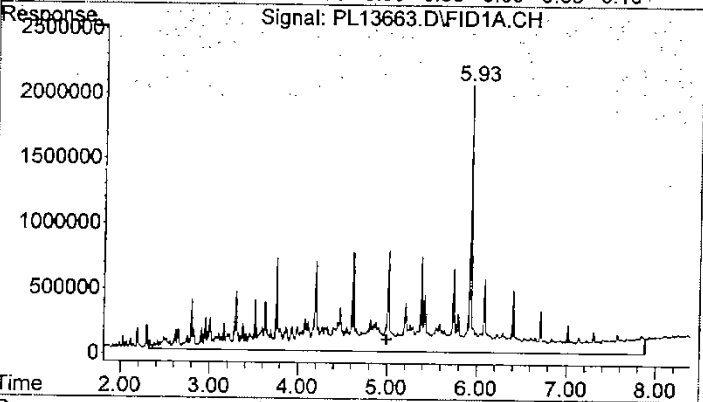




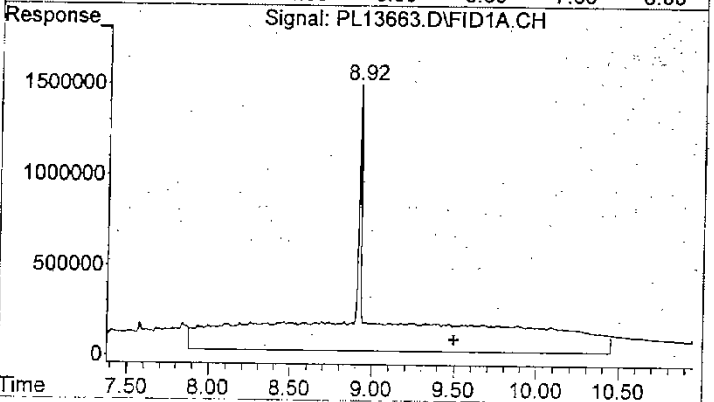
#1 o-terphenyl (S)
 R.T.: 5.928 min
 Delta R.T.: -0.002 min
 Response: 18501228
 Conc: 17.06 ng/ul



#2 n-triacontane-d62 (S)
 R.T.: 8.920 min
 Delta R.T.: -0.004 min
 Response: 13718507
 Conc: 18.75 ng/ul



#3 DRO (nC10-<nC25)
 R.T.: 5.000 min
 Delta R.T.: 0.000 min
 Response: 459924381
 Conc: 448.69 ng/ul m



#4 RRO (nC25-nC36)
 R.T.: 9.500 min
 Delta R.T.: 0:000 min
 Response: 216902781
 Conc: 400.68 ng/ul m

LABORATORY WORKSHEETS

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-10208





Analyst: Brenner, Shiran

Batch Open: 8/25/2006 8:07:36AM

Method Code: 580-3510C-580

Batch End:

Separatory Funnel Liquid-Liquid Extraction

Input Sample Lab ID (Analytical Method)	SDG	GrossWt TareWt	InitAmnt FinAmnt	Rcvd	PHs Adj1	Adj2	Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
1 MB~580-10208/1 N/A	N/A		1000 mL	7	2		N/A	N/A	N/A		
			1 mL								
2 LCS~580-10208/2 N/A	N/A		1000 mL	7	2		N/A	N/A	N/A		
			1 mL								
3 LCSD~580-10208/3 N/A	N/A		1000 mL	7	2		N/A	N/A	N/A		
			1 mL								
580-3377-H-1 (AK102_103)	N/A		970 mL	2	-		8/31/06	8_Days	4		
			1 mL								

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Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-10208

Analyst: Brenner, Shiran

Batch Open: 8/25/2006 8:07:36AM

Method Code: 580-3510C-580

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 580-10208/1	SAK1023_SR_00002	10 uL	1 mL		
LCS 580-10208/2	SAK1023_SR_00002	10 uL	1 mL		
LCS 580-10208/2	SNWDX_MS_00003	10 uL	1 mL		
LCSD 580-10208/3	SAK1023_SR_00002	10 uL	1 mL		
LCSD 580-10208/3	SNWDX_MS_00003	10 uL	1 mL		
580-3377-H-1	SAK1023_SR_00002	10 uL	1 mL		

Other Reagents:

Reagent	Amount/Units	Lot#:

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-10208

Analyst: Brenner, Shiran

Batch Open: 8/25/2006 8:07:36AM

Method Code: 580-3510C-580

Batch End:

Batch Notes

Acid used for pH adjustment H2SO4-LOT052424

Base used for pH adjustment N/A

Batch Comment

Person's name who did the
concentration
First End time

Vendor lot number

Na2SO4 Lot Numer

Oven, Bath or Block Temperature 1 60C

Prep Solvent Volume Used

Person's name who did the prep SB

Person's name who witnessed
reagent drop

Solvent CH2CL2-LOT13472

SOP Number

First Start time

Comments

TOTAL METALS DATA PACKAGE

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Quantitative Analysis Calibration Report

File Name:

File Path:

Calibration Type: External Calibration

(Dual Detector Mode)

Analyte	Mass	Curve Type	Slope	Intercept	Corr. Coeff.
Be	9.012	Linear Thru Zero	0.00	0.00	0.999972
Fe	53.940	Linear Thru Zero	0.00	0.00	0.999990
Ti	46.952	Linear Thru Zero	0.00	0.00	0.999993
V	50.944	Linear Thru Zero	0.01	0.00	0.999960
Cr	51.941	Linear Thru Zero	0.01	0.00	0.999955
Mn	54.938	Linear Thru Zero	0.01	0.00	0.999966
Co	58.933	Linear Thru Zero	0.01	0.00	0.999975
Ni	59.933	Linear Thru Zero	0.00	0.00	0.999973
Cu	64.928	Linear Thru Zero	0.00	0.00	0.999946
Zn	67.925	Linear Thru Zero	0.00	0.00	0.999941
As	74.922	Linear Thru Zero	0.00	0.00	0.999993
Se	81.917	Linear Thru Zero	0.00	0.00	0.999981
Ge	73.922	Linear Thru Zero	0.00	0.00	0.000000
Sr	87.906	Linear Thru Zero	0.01	0.00	0.999715
Mo	94.906	Linear Thru Zero	0.00	0.00	0.999987
Ag	106.905	Linear Thru Zero	0.01	0.00	0.999984
Cd	113.904	Linear Thru Zero	0.00	0.00	0.999988
Sn	117.902	Linear Thru Zero	0.00	0.00	0.999949
Sb	120.904	Linear Thru Zero	0.00	0.00	0.999968
Ba	136.905	Linear Thru Zero	0.00	0.00	0.999999
Rh	102.905	Linear Thru Zero	0.00	0.00	0.000000
TI	202.972	Linear Thru Zero	0.01	0.00	0.999983
Pb	207.977	Linear Thru Zero	0.02	0.00	0.999970
U	238.050	Linear Thru Zero	0.02	0.00	0.999972
Ho	164.930	Linear Thru Zero	0.00	0.00	0.000000

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: Blank

Sample Description:

Sample Date/Time: Tuesday, August 29, 2006 08:16:37

Number of Replicates: 3

Batch ID:

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AM\Blank.005

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9		ug/L			3.3	100.0
Fe	54		ug/L			21038.5	8.3
Ti	47		ug/L			226.7	8.9
V	51		ug/L			-469.6	168.4
Cr	52		ug/L			3362.6	3.0
Mn	55		ug/L			496.7	5.1
Co	59		ug/L			72.2	10.7
Ni	60		ug/L			28.9	63.5
Cu	65		ug/L			137.8	16.5
Zn	68		ug/L			675.7	3.9
As	75		ug/L			7276.3	4.3
Se	82		ug/L			86.7	13.9
Ge	74		ug/L			1637615.0	1.5
Sr	88		ug/L			221.1	3.1
Mo	95		ug/L			40.0	36.3
Ag	107		ug/L			38.9	51.7
Cd	114		ug/L			6.8	79.2
Sn	118		ug/L			112.2	26.8
Sb	121		ug/L			192.2	5.6
Ba	137		ug/L			120.0	19.4
Rh	103		ug/L			1743055.1	0.3
Tl	203		ug/L			45.6	15.2
Pb	208		ug/L			515.6	6.5
U	238		ug/L			65.6	16.3
Ho	165		ug/L			1793025.5	1.0

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: Standard 1

Sample Description:

Sample Date/Time: Tuesday, August 29, 2006 08:20:42

Number of Replicates: 3

Batch ID:

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AM\Standard 1.006

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	2.000	ug/L	8.5	3.333	752.2	8.4
Fe	54	20.000	ug/L	1.6	21038.453	36021.9	1.1
Ti	47	2.000	ug/L	4.8	226.669	1875.7	3.8
V	51	2.000	ug/L	14.0	-469.635	26547.5	14.5
Cr	52	2.000	ug/L	0.5	3362.646	21934.9	0.5
Mn	55	2.000	ug/L	0.4	496.678	31542.5	0.6
Co	59	2.000	ug/L	1.5	72.222	22731.0	1.2
Ni	60	2.000	ug/L	2.6	28.889	4754.4	2.7
Cu	65	2.000	ug/L	1.0	137.779	5691.5	1.3
Zn	68	2.000	ug/L	1.3	675.727	3819.6	1.4
As	75	2.000	ug/L	3.7	7276.312	10595.4	1.3
Se	82	2.000	ug/L	12.3	86.667	462.2	9.8
Ge	74		ug/L		1637615.021	1649608.5	0.4
Sr	88	2.000	ug/L	2.3	221.113	45018.8	1.6
Mo	95	2.000	ug/L	5.5	40.000	5784.8	5.2
Ag	107	2.000	ug/L	2.6	38.889	19474.8	2.9
Cd	114	2.000	ug/L	4.1	6.775	10578.1	3.5
Sn	118	2.000	ug/L	5.2	112.223	11173.4	4.9
Sb	121	2.000	ug/L	4.3	192.224	12384.7	3.7
Ba	137	2.000	ug/L	1.9	120.001	7499.2	1.9
Rh	103		ug/L		1743055.102	1714424.3	0.7
Tl	203	2.000	ug/L	1.4	45.556	23665.2	1.3
Pb	208	2.000	ug/L	1.6	515.561	79711.0	1.5
U	238	2.000	ug/L	3.9	65.556	86186.9	5.2
Ho	165		ug/L		1793025.535	1809875.7	1.7

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: Standard 2

Sample Description:

Sample Date/Time: Tuesday, August 29, 2006 08:24:44

Number of Replicates: 3

Batch ID:

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AM\Standard 2.007

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	9.965	ug/L	12.1	3.333	3461.7	12.1
Fe	54	99.852	ug/L	2.6	21038.453	93289.0	0.9
Ti	47	10.010	ug/L	2.3	226.669	8762.3	1.4
V	51	9.917	ug/L	4.1	-469.635	111362.9	3.9
Cr	52	9.988	ug/L	2.4	3362.646	94126.3	1.5
Mn	55	10.001	ug/L	1.9	496.678	157115.3	0.9
Co	59	9.998	ug/L	1.5	72.222	113559.7	1.4
Ni	60	9.993	ug/L	1.6	28.889	23436.9	0.4
Cu	65	9.981	ug/L	2.2	137.779	26815.7	1.0
Zn	68	9.925	ug/L	3.3	675.727	13891.0	2.2
As	75	10.003	ug/L	1.3	7276.312	23986.7	0.4
Se	82	9.999	ug/L	6.0	86.667	1972.4	6.6
Ge	74		ug/L		1637615.021	1662483.3	1.3
Sr	88	9.988	ug/L	0.7	221.113	222415.2	0.4
Mo	95	9.995	ug/L	3.5	40.000	29084.7	4.6
Ag	107	9.983	ug/L	1.4	38.889	95281.3	0.8
Cd	114	9.991	ug/L	0.1	6.775	52873.4	1.0
Sn	118	9.991	ug/L	3.2	112.223	55370.0	4.2
Sb	121	9.992	ug/L	2.2	192.224	61296.5	3.2
Ba	137	9.997	ug/L	1.4	120.001	37532.2	0.3
Rh	103		ug/L		1743055.102	1753651.0	1.1
Tl	203	10.006	ug/L	1.5	45.556	118080.9	1.3
Pb	208	10.001	ug/L	1.4	515.561	391176.9	1.0
U	238	10.009	ug/L	3.5	65.556	433961.9	4.0
Ho	165		ug/L		1793025.535	1781847.9	0.6

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: Standard 3

Sample Description:

Sample Date/Time: Tuesday, August 29, 2006 08:28:47

Number of Replicates: 3

Batch ID:

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AM\Standard 3.008

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	24.955	ug/L	7.4	3.333	8593.3	6.5
Fe	54	249.512	ug/L	0.5	21038.453	199627.2	1.1
Ti	47	24.950	ug/L	1.7	226.669	21306.0	0.7
V	51	24.809	ug/L	2.4	-469.635	267771.2	1.4
Cr	52	24.906	ug/L	1.2	3362.646	225257.2	0.6
Mn	55	24.935	ug/L	1.2	496.678	386092.6	0.8
Co	59	24.928	ug/L	1.1	72.222	279068.0	1.0
Ni	60	24.943	ug/L	1.1	28.889	57841.3	0.7
Cu	65	24.914	ug/L	1.7	137.779	65567.4	1.2
Zn	68	24.863	ug/L	0.9	675.727	32815.3	0.3
As	75	25.025	ug/L	1.3	7276.312	49309.5	0.6
Se	82	24.843	ug/L	0.7	86.667	4612.1	1.7
Ge	74		ug/L		1637615.021	1667283.3	1.0
Sr	88	25.045	ug/L	0.3	221.113	558519.2	0.7
Mo	95	25.011	ug/L	4.4	40.000	72263.5	4.8
Ag	107	25.027	ug/L	1.2	38.889	238259.7	0.6
Cd	114	25.012	ug/L	1.0	6.775	131573.3	1.2
Sn	118	25.045	ug/L	1.8	112.223	138893.0	2.2
Sb	121	25.035	ug/L	3.3	192.224	153224.7	3.9
Ba	137	24.985	ug/L	3.4	120.001	92466.7	2.8
Rh	103		ug/L		1743055.102	1738195.5	0.6
Tl	203	24.947	ug/L	1.4	45.556	293279.5	1.3
Pb	208	24.957	ug/L	0.6	515.561	974063.7	0.7
U	238	24.917	ug/L	5.8	65.556	1068296.6	5.0
Ho	165		ug/L		1793025.535	1797945.7	0.9

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: Standard 4

Sample Description:

Sample Date/Time: Tuesday, August 29, 2006 08:32:54

Number of Replicates: 3

Batch ID:

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AM\Standard 4.009

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	49.856	ug/L	11.4	3.333	16987.5	9.9
Fe	54	502.033	ug/L	3.2	21038.453	385057.9	2.4
Ti	47	50.151	ug/L	2.4	226.669	43037.6	0.9
V	51	49.977	ug/L	3.3	-469.635	539084.6	2.0
Cr	52	50.245	ug/L	3.7	3362.646	458574.5	2.3
Mn	55	49.809	ug/L	2.9	496.678	760744.5	1.3
Co	59	50.003	ug/L	3.4	72.222	559757.2	1.8
Ni	60	50.095	ug/L	1.6	28.889	116909.6	0.4
Cu	65	50.100	ug/L	2.3	137.779	132839.4	2.1
Zn	68	49.681	ug/L	2.3	675.727	63512.4	1.0
As	75	50.106	ug/L	1.4	7276.312	91934.2	0.7
Se	82	50.055	ug/L	4.7	86.667	9235.0	3.5
Ge	74		ug/L		1637615.021	1667637.1	1.7
Sr	88	49.713	ug/L	1.2	221.113	1091301.4	0.1
Mo	95	50.021	ug/L	5.9	40.000	145188.2	4.7
Ag	107	49.858	ug/L	1.7	38.889	471907.7	0.6
Cd	114	49.873	ug/L	3.3	6.775	261062.9	2.1
Sn	118	50.128	ug/L	4.3	112.223	281392.0	3.2
Sb	121	50.178	ug/L	4.0	192.224	311828.4	2.8
Ba	137	49.987	ug/L	1.4	120.001	185475.3	0.6
Rh	103		ug/L		1743055.102	1745273.0	1.2
Tl	203	49.691	ug/L	1.4	45.556	577164.8	1.7
Pb	208	49.830	ug/L	1.9	515.561	1939107.9	1.0
U	238	49.633	ug/L	4.8	65.556	2095628.0	5.6
Ho	165		ug/L		1793025.535	1814323.1	2.1

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: Standard 5

Sample Description:

Sample Date/Time: Tuesday, August 29, 2006 08:37:01

Number of Replicates: 3

Batch ID:

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AM\Standard 5.010

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	99.620	ug/L	9.6	3.333	32964.7	9.2
Fe	54	998.859	ug/L	2.0	21038.453	728981.8	1.6
Ti	47	100.130	ug/L	1.3	226.669	84497.9	0.8
V	51	99.621	ug/L	1.8	-469.635	1043524.5	1.3
Cr	52	99.542	ug/L	1.7	3362.646	876562.2	1.2
Mn	55	99.587	ug/L	1.7	496.678	1474379.8	1.1
Co	59	99.612	ug/L	1.8	72.222	1082041.0	1.0
Ni	60	99.605	ug/L	2.3	28.889	225465.2	2.0
Cu	65	99.430	ug/L	1.6	137.779	253885.4	2.2
Zn	68	99.558	ug/L	1.7	675.727	122630.0	0.9
As	75	99.825	ug/L	0.4	7276.312	171741.3	1.0
Se	82	99.719	ug/L	1.8	86.667	17829.9	1.9
Ge	74		ug/L		1637615.021	1637301.7	0.8
Sr	88	98.680	ug/L	1.1	221.113	2042876.8	0.5
Mo	95	99.707	ug/L	3.6	40.000	281668.2	4.1
Ag	107	99.716	ug/L	2.3	38.889	918379.1	1.3
Cd	114	99.759	ug/L	1.5	6.775	508891.3	0.5
Sn	118	100.556	ug/L	1.2	112.223	563952.2	2.3
Sb	121	100.415	ug/L	1.8	192.224	620642.4	2.8
Ba	137	100.063	ug/L	1.1	120.001	365116.7	1.9
Rh	103		ug/L		1743055.102	1713279.9	1.1
Tl	203	100.010	ug/L	0.2	45.556	1148354.7	1.1
Pb	208	99.598	ug/L	1.4	515.561	3783015.9	0.3
U	238	100.153	ug/L	3.4	65.556	4199004.4	4.5
Ho	165		ug/L		1793025.535	1792928.7	1.2

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: MSICV

Sample Description: 25 PPB CHECK SOLUTION

Sample Date/Time: Tuesday, August 29, 2006 08:45:13

Number of Replicates: 3

Batch ID: 08-29-06

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AMMSICV.012

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	25.574	ug/L	9.6	3.333	8493.3	8.8
Fe	54	246.485	ug/L	2.1	21038.453	196410.9	1.1
Ti	47	24.887	ug/L	2.9	226.669	21244.7	2.1
V	51	25.308	ug/L	0.3	-469.635	265705.0	1.0
Cr	52	25.078	ug/L	1.7	3362.646	224145.9	1.8
Mn	55	25.252	ug/L	1.3	496.678	375553.1	1.3
Co	59	25.141	ug/L	0.7	72.222	274148.0	1.5
Ni	60	25.091	ug/L	2.7	28.889	57012.6	1.9
Cu	65	25.311	ug/L	2.4	137.779	64948.2	1.6
Zn	68	25.792	ug/L	0.2	675.727	32386.1	1.0
As	75	25.327	ug/L	1.7	7276.312	49176.6	2.0
Se	82	25.126	ug/L	2.7	86.667	4574.3	3.6
Ge	74		ug/L		1637615.021	1643069.1	1.0
Sr	88	26.051	ug/L	1.8	221.113	539715.3	1.7
Mo	95	25.466	ug/L	6.6	40.000	71984.2	6.5
Ag	107	25.363	ug/L	1.2	38.889	233749.0	1.4
Cd	114	25.127	ug/L	1.3	6.775	128246.7	1.1
Sn	118	25.103	ug/L	2.6	112.223	140904.8	2.4
Sb	121	24.593	ug/L	2.9	192.224	152183.4	2.7
Ba	137	25.046	ug/L	1.3	120.001	91509.8	1.5
Rh	103		ug/L		1743055.102	1713950.2	0.3
Tl	203	25.255	ug/L	0.9	45.556	292471.6	0.5
Pb	208	25.170	ug/L	1.3	515.561	964575.6	0.9
U	238	25.294	ug/L	4.5	65.556	1069301.5	4.8
Ho	165		ug/L		1793025.535	1808086.3	0.4

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: ICB

Sample Description: BLANK

Sample Date/Time: Tuesday, August 29, 2006 08:49:21

Number of Replicates: 3

Batch ID: 08-29-06

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AM\ICB.013

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	-0.003	ug/L	176.8	3.333	2.2	86.6
Fe	54	1.143	ug/L	171.1	21038.453	21639.0	6.8
Ti	47	0.027	ug/L	108.3	226.669	246.7	9.4
V	51	0.535	ug/L	91.6	-469.635	5091.6	100.3
Cr	52	0.004	ug/L	375.0	3362.646	3365.7	4.1
Mn	55	0.002	ug/L	208.0	496.678	526.7	13.3
Co	59	0.000	ug/L	70.3	72.222	76.7	4.3
Ni	60	-0.004	ug/L	117.6	28.889	20.0	50.0
Cu	65	0.008	ug/L	100.3	137.779	157.8	13.6
Zn	68	0.040	ug/L	207.2	675.727	717.9	13.8
As	75	0.118	ug/L	174.3	7276.312	7397.6	4.9
Se	82	-0.027	ug/L	336.9	86.667	81.1	20.3
Ge	74		ug/L		1637615.021	1621585.3	0.6
Sr	88	0.001	ug/L	96.1	221.113	246.7	11.8
Mo	95	0.295	ug/L	6.6	40.000	870.0	6.5
Ag	107	0.006	ug/L	20.4	38.889	96.7	12.4
Cd	114	-0.000	ug/L	320.1	6.775	4.6	138.8
Sn	118	0.401	ug/L	8.1	112.223	2352.5	7.7
Sb	121	0.243	ug/L	5.4	192.224	1686.8	4.9
Ba	137	0.002	ug/L	233.6	120.001	124.4	12.7
Rh	103		ug/L		1743055.102	1708243.6	0.3
Tl	203	0.001	ug/L	82.9	45.556	61.1	22.7
Pb	208	0.002	ug/L	35.2	515.561	576.7	2.1
U	238	0.032	ug/L	10.0	65.556	1392.3	11.2
Ho	165		ug/L		1793025.535	1770466.8	2.0

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: MSICSA

Sample Description:

Sample Date/Time: Tuesday, August 29, 2006 08:57:30

Number of Replicates: 3

Batch ID: 08-29-06

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AM\MSICSA.015

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	0.008	ug/L	156.9	3.333	5.6	69.3
Fe	54	90207.631	ug/L	2.2	21038.453	60073165.0	1.0
Ti	47	1953.277	ug/L	2.4	226.669	1544318.4	1.3
V	51	0.608	ug/L	59.2	-469.635	5534.3	64.0
Cr	52	2.021	ug/L	2.6	3362.646	19808.1	1.0
Mn	55	3.760	ug/L	2.4	496.678	52736.0	1.0
Co	59	1.957	ug/L	2.1	72.222	20038.1	0.7
Ni	60	3.147	ug/L	1.7	28.889	6718.7	1.7
Cu	65	3.519	ug/L	2.3	137.779	8563.3	1.0
Zn	68	3.994	ug/L	5.0	675.727	5229.5	3.4
As	75	0.276	ug/L	82.7	7276.312	7258.5	3.6
Se	82	0.391	ug/L	27.5	86.667	146.7	12.0
Ge	74		ug/L		1637615.021	1538110.5	1.4
Sr	88	1.393	ug/L	2.9	221.113	26298.9	0.9
Mo	95	2200.888	ug/L	2.5	40.000	5627971.5	1.9
Ag	107	0.468	ug/L	1.8	38.889	3937.4	1.8
Cd	114	0.065	ug/L	135.5	6.775	311.9	131.1
Sn	118	0.651	ug/L	5.6	112.223	3405.0	5.4
Sb	121	2.175	ug/L	1.8	192.224	12339.1	1.3
Ba	137	0.539	ug/L	5.5	120.001	1889.0	6.6
Rh	103		ug/L		1743055.102	1551572.7	2.2
Tl	203	0.155	ug/L	3.1	45.556	1694.6	3.6
Pb	208	0.474	ug/L	1.5	515.561	17199.6	1.4
U	238	0.009	ug/L	6.1	65.556	422.2	5.1
Ho	165		ug/L		1793025.535	1664841.9	0.8

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: MSICSAB

Sample Description:

Sample Date/Time: Tuesday, August 29, 2006 09:01:33

Number of Replicates: 3

Batch ID: 08-29-06

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AMMSICSAB.016

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	0.108	ug/L	21.2	3.333	35.6	19.5
Fe	54	91225.303	ug/L	0.6	21038.453	58693206.3	0.4
Ti	47	1927.203	ug/L	0.9	226.669	1472082.0	0.6
V	51	35.798	ug/L	0.5	-469.635	340023.6	0.7
Cr	52	19.848	ug/L	0.2	3362.646	161058.1	0.2
Mn	55	21.969	ug/L	0.1	496.678	295520.6	0.4
Co	59	36.823	ug/L	1.2	72.222	363033.6	1.0
Ni	60	36.794	ug/L	2.9	28.889	75596.4	2.8
Cu	65	19.598	ug/L	3.5	137.779	45504.2	3.2
Zn	68	19.579	ug/L	3.0	675.727	22377.4	2.6
As	75	19.865	ug/L	1.2	7276.312	36300.6	1.3
Se	82	19.589	ug/L	1.9	86.667	3241.6	2.1
Ge	74		ug/L		1637615.021	1485740.9	0.3
Sr	88	1.460	ug/L	1.1	221.113	26414.7	0.6
Mo	95	2190.090	ug/L	0.6	40.000	5368002.3	1.0
Ag	107	17.905	ug/L	1.2	38.889	143156.4	0.9
Cd	114	9.070	ug/L	1.0	6.775	40164.6	1.7
Sn	118	0.374	ug/L	6.9	112.223	1917.9	7.3
Sb	121	1.603	ug/L	2.5	192.224	8760.1	3.2
Ba	137	0.875	ug/L	28.6	120.001	2865.9	26.3
Rh	103		ug/L		1743055.102	1486928.6	1.5
Tl	203	0.429	ug/L	2.9	45.556	4510.9	3.7
Pb	208	0.523	ug/L	1.0	515.561	18497.2	1.4
U	238	0.006	ug/L	11.7	65.556	292.2	10.0
Ho	165		ug/L		1793025.535	1626433.0	0.9

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: QC Std 3

Sample Description:

Sample Date/Time: Tuesday, August 29, 2006 19:01:41

Number of Replicates: 3

Batch ID:

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AM\QC Std 3.053

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	53.859	ug/L	4.1	3.333	16730.4	2.6
Fe	54	491.619	ug/L	1.3	21038.453	346875.9	2.3
Ti	47	49.856	ug/L	1.2	226.669	39599.3	0.6
V	51	49.813	ug/L	0.5	-469.635	489625.0	1.4
Cr	52	49.876	ug/L	0.8	3362.646	413867.1	0.7
Mn	55	50.500	ug/L	1.6	496.678	702051.2	1.3
Co	59	49.779	ug/L	1.9	72.222	507665.3	2.2
Ni	60	49.247	ug/L	0.7	28.889	104660.6	1.0
Cu	65	49.417	ug/L	1.6	137.779	118510.0	2.1
Zn	68	50.526	ug/L	0.7	675.727	58737.1	1.0
As	75	49.413	ug/L	0.9	7276.312	83257.3	2.2
Se	82	50.681	ug/L	3.1	86.667	8545.5	2.7
Ge	74		ug/L		1637615.021	1536980.2	1.4
Sr	88	52.558	ug/L	0.6	221.113	1022117.4	0.6
Mo	95	50.530	ug/L	5.1	40.000	134102.7	5.6
Ag	107	49.678	ug/L	2.1	38.889	429840.5	2.3
Cd	114	51.750	ug/L	1.0	6.775	247988.4	1.4
Sn	118	51.204	ug/L	3.0	112.223	269779.6	3.6
Sb	121	52.637	ug/L	3.2	192.224	305651.7	3.7
Ba	137	50.588	ug/L	1.1	120.001	173423.0	1.1
Rh	103		ug/L		1743055.102	1609203.4	0.5
Tl	203	50.391	ug/L	1.4	45.556	558940.9	0.8
Pb	208	50.030	ug/L	1.0	515.561	1836064.8	0.1
U	238	48.978	ug/L	3.8	65.556	1983304.1	4.0
Ho	165		ug/L		1793025.535	1732051.6	1.1

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: QC Std 4

Sample Description:

Sample Date/Time: Tuesday, August 29, 2006 19:05:49

Number of Replicates: 3

Batch ID:

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AM\QC Std 4.054

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	0.001	ug/L	933.2	3.333	3.3	100.0
Fe	54	-1.295	ug/L	126.5	21038.453	18083.9	5.0
Ti	47	-0.039	ug/L	93.6	226.669	174.4	14.8
V	51	0.286	ug/L	62.5	-469.635	2277.7	73.8
Cr	52	0.008	ug/L	53.9	3362.646	3089.7	2.2
Mn	55	0.004	ug/L	26.5	496.678	504.5	3.1
Co	59	0.002	ug/L	169.3	72.222	83.3	38.2
Ni	60	0.011	ug/L	51.4	28.889	48.9	23.9
Cu	65	0.143	ug/L	12.3	137.779	451.1	9.8
Zn	68	-0.094	ug/L	74.6	675.727	503.7	14.8
As	75	-0.176	ug/L	87.9	7276.312	6279.4	2.5
Se	82	-0.084	ug/L	88.4	86.667	64.4	18.2
Ge	74		ug/L		1637615.021	1472351.7	1.2
Sr	88	0.002	ug/L	154.3	221.113	236.7	23.7
Mo	95	0.864	ug/L	8.1	40.000	2275.8	8.5
Ag	107	0.066	ug/L	6.6	38.889	590.0	5.4
Cd	114	-0.001	ug/L	1154.1	6.775	1.7	3165.6
Sn	118	1.551	ug/L	4.1	112.223	8080.7	4.7
Sb	121	0.988	ug/L	1.9	192.224	5777.1	1.0
Ba	137	-0.004	ug/L	49.5	120.001	94.4	7.3
Rh	103		ug/L		1743055.102	1572332.9	1.0
Tl	203	0.006	ug/L	34.2	45.556	108.9	20.4
Pb	208	0.003	ug/L	18.5	515.561	581.1	4.1
U	238	0.059	ug/L	9.3	65.556	2344.7	8.1
Ho	165		ug/L		1793025.535	1659715.2	1.2

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: 580-81231

Sample Description: 1X

Sample Date/Time: Tuesday, August 29, 2006 19:09:54

Number of Replicates: 3

Batch ID: ANALYST = FCW , BATCH = 580-10401

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AM\580-81231.055

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	0.016	ug/L	175.1	3.333	7.8	107.9
Fe	54	0.875	ug/L	88.6	21038.453	19320.6	2.0
Ti	47	0.048	ug/L	144.1	226.669	237.8	21.0
V	51	0.299	ug/L	63.0	-469.635	2381.6	74.4
Cr	52	0.057	ug/L	21.4	3362.646	3444.2	3.4
Mn	55	0.014	ug/L	22.2	496.678	633.4	7.1
Co	59	0.002	ug/L	110.0	72.222	82.2	23.8
Ni	60	0.048	ug/L	14.0	28.889	122.2	11.0
Cu	65	0.134	ug/L	14.5	137.779	427.8	9.6
Zn	68	0.170	ug/L	20.0	675.727	788.7	4.1
As	75	-0.261	ug/L	54.8	7276.312	6108.7	4.1
Se	82	0.052	ug/L	90.6	86.667	85.6	8.1
Ge	74		ug/L		1637615.021	1460954.6	0.7
Sr	88	0.007	ug/L	9.8	221.113	331.1	5.5
Mo	95	0.386	ug/L	5.8	40.000	1007.8	5.5
Ag	107	0.061	ug/L	3.3	38.889	533.3	3.5
Cd	114	-0.006	ug/L	166.8	6.775	-22.6	212.0
Sn	118	0.891	ug/L	6.1	112.223	4560.9	6.9
Sb	121	0.456	ug/L	7.8	192.224	2681.4	6.0
Ba	137	0.020	ug/L	29.7	120.001	168.9	9.9
Rh	103		ug/L		1743055.102	1530591.7	2.0
Tl	203	0.006	ug/L	23.4	45.556	112.2	14.0
Pb	208	0.011	ug/L	4.0	515.561	892.2	2.2
U	238	0.015	ug/L	7.2	65.556	670.0	7.0
Ho	165		ug/L		1793025.535	1679901.3	0.5

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: 580-81224SD

Sample Description: 25X

Sample Date/Time: Tuesday, August 29, 2006 19:13:55

Number of Replicates: 3

Batch ID: ANALYST = FCW , BATCH = 580-10401

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AM\580-81224SD.056

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	0.009	ug/L	149.3	3.333	5.6	69.3
Fe	54	1.448	ug/L	69.8	21038.453	19650.1	2.9
Ti	47	0.085	ug/L	46.8	226.669	265.6	11.0
V	51	0.489	ug/L	30.9	-469.635	4146.9	33.6
Cr	52	0.152	ug/L	14.3	3362.646	4186.3	4.4
Mn	55	0.058	ug/L	9.4	496.678	1211.2	5.6
Co	59	0.005	ug/L	24.3	72.222	113.3	10.2
Ni	60	0.075	ug/L	11.6	28.889	177.8	9.6
Cu	65	1.799	ug/L	2.6	137.779	4213.0	2.2
Zn	68	0.261	ug/L	9.6	675.727	886.7	2.7
As	75	0.008	ug/L	2737.5	7276.312	6493.0	5.3
Se	82	0.123	ug/L	139.4	86.667	96.7	28.2
Ge	74		ug/L		1637615.021	1458491.1	0.4
Sr	88	5.883	ug/L	0.7	221.113	109154.7	0.5
Mo	95	0.655	ug/L	2.7	40.000	1691.2	3.7
Ag	107	0.062	ug/L	2.9	38.889	548.9	3.0
Cd	114	-0.006	ug/L	112.4	6.775	-23.2	140.5
Sn	118	0.905	ug/L	7.3	112.223	4641.0	7.8
Sb	121	0.406	ug/L	2.2	192.224	2414.7	3.1
Ba	137	0.052	ug/L	24.9	120.001	274.4	15.0
Rh	103		ug/L		1743055.102	1532840.7	1.1
Tl	203	0.006	ug/L	7.2	45.556	110.0	5.2
Pb	208	0.259	ug/L	1.1	515.561	9533.8	1.2
U	238	0.037	ug/L	3.3	65.556	1473.4	2.9
Ho	165		ug/L		1793025.535	1652113.0	0.9

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: 580-81224

Sample Description: 5X

Sample Date/Time: Tuesday, August 29, 2006 19:17:55

Number of Replicates: 3

Batch ID: ANALYST = FCW , BATCH = 580-10401

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AM\580-81224.057

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	-0.003	ug/L	253.8	3.333	2.2	86.6
Fe	54	9.618	ug/L	14.5	21038.453	24825.4	4.1
Ti	47	0.702	ug/L	60.6	226.669	728.9	44.1
V	51	-0.019	ug/L	1266.1	-469.635	-600.6	366.2
Cr	52	0.692	ug/L	4.0	3362.646	8410.1	2.5
Mn	55	0.124	ug/L	4.6	496.678	2074.6	4.2
Co	59	0.013	ug/L	27.7	72.222	187.8	18.6
Ni	60	0.307	ug/L	4.0	28.889	644.5	4.4
Cu	65	0.780	ug/L	1.9	137.779	1895.7	2.4
Zn	68	0.753	ug/L	12.4	675.727	1424.3	7.5
As	75	0.185	ug/L	104.2	7276.312	6753.7	3.7
Se	82	0.151	ug/L	65.7	86.667	101.1	15.2
Ge	74		ug/L		1637615.021	1459199.4	0.6
Sr	88	29.498	ug/L	1.8	221.113	537561.8	1.9
Mo	95	1.768	ug/L	3.5	40.000	4428.7	4.0
Ag	107	0.074	ug/L	13.9	38.889	630.0	12.6
Cd	114	-0.005	ug/L	100.2	6.775	-14.5	142.2
Sn	118	1.187	ug/L	8.4	112.223	5954.9	8.3
Sb	121	0.702	ug/L	6.4	192.224	3987.4	7.2
Ba	137	0.108	ug/L	13.5	120.001	451.1	10.5
Rh	103		ug/L		1743055.102	1507863.5	2.1
Tl	203	0.003	ug/L	76.1	45.556	75.6	33.1
Pb	208	0.023	ug/L	5.3	515.561	1290.0	3.6
U	238	0.144	ug/L	5.1	65.556	5691.5	4.4
Ho	165		ug/L		1793025.535	1676418.8	0.9

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: 580-81225

Sample Description: 5X

Sample Date/Time: Tuesday, August 29, 2006 19:21:57

Number of Replicates: 3

Batch ID: ANALYST = FCW , BATCH = 580-10401

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AM\580-81225.058

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	0.002	ug/L	766.6	3.333	3.3	100.0
Fe	54	11.408	ug/L	4.3	21038.453	25333.6	1.4
Ti	47	0.664	ug/L	8.9	226.669	683.4	6.0
V	51	0.953	ug/L	50.7	-469.635	8296.0	53.6
Cr	52	0.794	ug/L	2.1	3362.646	8983.6	1.3
Mn	55	0.166	ug/L	7.2	496.678	2574.7	5.7
Co	59	0.013	ug/L	33.2	72.222	181.1	21.3
Ni	60	0.265	ug/L	5.1	28.889	547.8	5.1
Cu	65	0.769	ug/L	5.8	137.779	1826.8	5.3
Zn	68	1.028	ug/L	8.1	675.727	1683.6	5.2
As	75	0.368	ug/L	62.0	7276.312	6857.6	5.1
Se	82	0.137	ug/L	111.7	86.667	96.7	24.9
Ge	74		ug/L		1637615.021	1424370.5	0.4
Sr	88	29.432	ug/L	0.7	221.113	520174.4	1.2
Mo	95	1.803	ug/L	4.3	40.000	4379.8	4.2
Ag	107	0.068	ug/L	4.5	38.889	563.3	4.5
Cd	114	-0.000	ug/L	1124.5	6.775	4.0	505.7
Sn	118	0.869	ug/L	10.2	112.223	4249.7	9.6
Sb	121	0.587	ug/L	6.5	192.224	3254.9	6.5
Ba	137	0.141	ug/L	14.8	120.001	540.0	11.3
Rh	103		ug/L		1743055.102	1462178.1	1.1
Tl	203	0.003	ug/L	7.2	45.556	71.1	2.7
Pb	208	0.032	ug/L	2.4	515.561	1557.8	1.8
U	238	0.140	ug/L	2.3	65.556	5371.3	2.4
Ho	165		ug/L		1793025.535	1623585.5	0.3

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: 580-81226

Sample Description: 50X

Sample Date/Time: Tuesday, August 29, 2006 19:25:58

Number of Replicates: 3

Batch ID: ANALYST = FCW , BATCH = 580-10401

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AM\580-81226.059

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	2.355	ug/L	9.0	3.333	710.0	8.6
Fe	54	479.655	ug/L	2.0	21038.453	327632.3	3.1
Ti	47	109.682	ug/L	2.2	226.669	83961.6	1.5
V	51	22.270	ug/L	1.6	-469.635	211376.0	2.6
Cr	52	9.016	ug/L	0.9	3362.646	74821.2	0.8
Mn	55	22.597	ug/L	1.4	496.678	303938.6	1.9
Co	59	21.974	ug/L	0.6	72.222	216656.5	0.9
Ni	60	22.141	ug/L	2.6	28.889	45499.7	2.8
Cu	65	11.280	ug/L	2.6	137.779	26251.0	3.7
Zn	68	22.392	ug/L	1.4	675.727	25503.1	1.2
As	75	86.487	ug/L	0.9	7276.312	135903.1	1.9
Se	82	88.471	ug/L	1.8	86.667	14364.8	2.9
Ge	74		ug/L		1637615.021	1485691.8	1.2
Sr	88	2.725	ug/L	1.3	221.113	51637.5	0.8
Mo	95	108.594	ug/L	6.0	40.000	279822.6	6.5
Ag	107	14.257	ug/L	1.1	38.889	119818.3	1.8
Cd	114	2.113	ug/L	6.9	6.775	9838.6	7.2
Sn	118	109.960	ug/L	2.5	112.223	562441.7	3.0
Sb	121	61.087	ug/L	7.1	192.224	344468.6	7.5
Ba	137	88.374	ug/L	0.9	120.001	294112.1	1.2
Rh	103		ug/L		1743055.102	1562618.7	0.7
Tl	203	87.414	ug/L	0.6	45.556	944247.1	1.7
Pb	208	22.009	ug/L	0.5	515.561	786789.9	0.5
U	238	0.015	ug/L	5.5	65.556	651.1	5.9
Ho	165		ug/L		1793025.535	1686581.0	1.1

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: 580-81227

Sample Description: 50X

Sample Date/Time: Tuesday, August 29, 2006 19:30:00

Number of Replicates: 3

Batch ID: ANALYST = FCW , BATCH = 580-10401

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AM\580-81227.060

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	2.254	ug/L	7.8	3.333	684.5	8.2
Fe	54	474.457	ug/L	3.7	21038.453	326184.0	2.8
Ti	47	111.236	ug/L	2.1	226.669	85671.2	0.8
V	51	22.376	ug/L	2.3	-469.635	213649.4	1.2
Cr	52	8.862	ug/L	2.8	3362.646	74032.9	1.1
Mn	55	22.659	ug/L	1.5	496.678	306615.3	0.3
Co	59	22.306	ug/L	1.2	72.222	221279.6	0.8
Ni	60	22.352	ug/L	2.3	28.889	46210.3	1.2
Cu	65	11.506	ug/L	2.4	137.779	26928.1	0.7
Zn	68	21.883	ug/L	2.9	675.727	25098.2	3.9
As	75	90.803	ug/L	2.8	7276.312	143195.5	1.1
Se	82	89.085	ug/L	3.0	86.667	14548.4	2.0
Ge	74		ug/L		1637615.021	1494966.4	1.8
Sr	88	2.825	ug/L	2.7	221.113	53259.6	2.3
Mo	95	114.132	ug/L	5.2	40.000	292511.5	5.2
Ag	107	14.720	ug/L	0.7	38.889	123061.1	0.6
Cd	114	2.195	ug/L	7.4	6.775	10163.7	7.0
Sn	118	112.491	ug/L	2.2	112.223	572361.6	2.2
Sb	121	65.626	ug/L	6.9	192.224	368064.5	7.0
Ba	137	91.170	ug/L	1.1	120.001	301845.6	1.4
Rh	103		ug/L		1743055.102	1554527.3	0.4
Tl	203	88.417	ug/L	1.4	45.556	960142.4	1.1
Pb	208	22.227	ug/L	1.0	515.561	798903.7	0.9
U	238	0.015	ug/L	9.6	65.556	647.8	8.1
Ho	165		ug/L		1793025.535	1695656.6	0.5

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: 580-81224PDS

Sample Description: 50X

Sample Date/Time: Tuesday, August 29, 2006 19:34:05

Number of Replicates: 3

Batch ID: ANALYST = FCW , BATCH = 580-10401

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AM\580-81224PDS.061

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	2.022	ug/L	12.4	3.333	608.9	10.6
Fe	54	463.613	ug/L	1.8	21038.453	316926.9	1.7
Ti	47	106.584	ug/L	1.3	226.669	81515.7	0.8
V	51	21.618	ug/L	1.7	-469.635	204928.1	1.2
Cr	52	8.622	ug/L	2.0	3362.646	71602.3	0.3
Mn	55	22.057	ug/L	1.1	496.678	296358.2	0.7
Co	59	21.631	ug/L	2.4	72.222	213018.2	0.7
Ni	60	21.762	ug/L	3.3	28.889	44661.8	1.6
Cu	65	10.977	ug/L	2.0	137.779	25515.9	2.2
Zn	68	21.845	ug/L	1.3	675.727	24873.6	2.6
As	75	86.361	ug/L	2.2	7276.312	135592.2	3.3
Se	82	87.194	ug/L	0.5	86.667	14143.4	2.1
Ge	74		ug/L		1637615.021	1484249.8	1.8
Sr	88	2.706	ug/L	1.7	221.113	51817.2	0.3
Mo	95	107.666	ug/L	3.8	40.000	280405.6	5.1
Ag	107	13.893	ug/L	2.3	38.889	117961.8	1.2
Cd	114	2.136	ug/L	5.9	6.775	10047.8	5.0
Sn	118	108.422	ug/L	1.2	112.223	560467.7	2.5
Sb	121	61.175	ug/L	4.6	192.224	348664.4	5.8
Ba	137	85.520	ug/L	1.6	120.001	287586.4	0.2
Rh	103		ug/L		1743055.102	1579179.9	1.4
Tl	203	86.244	ug/L	1.3	45.556	936434.9	0.9
Pb	208	21.429	ug/L	1.0	515.561	770123.6	0.6
U	238	0.014	ug/L	10.7	65.556	615.6	8.7
Ho	165		ug/L		1793025.535	1695506.4	1.1

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: 580-81232

Sample Description: 50X

Sample Date/Time: Tuesday, August 29, 2006 19:38:08

Number of Replicates: 3

Batch ID: ANALYST = FCW , BATCH = 580-10401

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AM\580-81232.062

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	2.198	ug/L	27.1	3.333	676.7	26.8
Fe	54	446.539	ug/L	3.8	21038.453	312553.7	2.7
Ti	47	104.510	ug/L	1.7	226.669	81667.9	0.7
V	51	21.151	ug/L	0.7	-469.635	204867.9	0.9
Cr	52	8.368	ug/L	1.3	3362.646	71097.6	0.5
Mn	55	21.574	ug/L	2.0	496.678	296170.1	1.1
Co	59	21.046	ug/L	0.8	72.222	211794.0	0.4
Ni	60	21.095	ug/L	3.3	28.889	44237.9	2.1
Cu	65	10.696	ug/L	2.1	137.779	25403.5	1.1
Zn	68	20.913	ug/L	1.2	675.727	24352.8	0.6
As	75	83.621	ug/L	1.2	7276.312	134327.6	0.8
Se	82	86.186	ug/L	2.3	86.667	14281.4	1.4
Ge	74		ug/L		1637615.021	1516443.3	1.3
Sr	88	0.023	ug/L	14.8	221.113	650.0	10.8
Mo	95	105.200	ug/L	6.8	40.000	276942.6	6.0
Ag	107	13.725	ug/L	2.6	38.889	117874.3	1.5
Cd	114	2.026	ug/L	2.5	6.775	9642.5	3.4
Sn	118	103.840	ug/L	4.9	112.223	542713.4	3.8
Sb	121	57.197	ug/L	10.0	192.224	329421.9	9.0
Ba	137	84.451	ug/L	2.0	120.001	287252.6	1.0
Rh	103		ug/L		1743055.102	1597345.3	1.4
Tl	203	84.741	ug/L	2.0	45.556	925256.5	0.9
Pb	208	21.235	ug/L	1.4	515.561	767495.7	1.3
U	238	0.001	ug/L	60.0	65.556	112.2	28.8
Ho	165		ug/L		1793025.535	1705481.1	2.7

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: 580-81233

Sample Description: 50X

Sample Date/Time: Tuesday, August 29, 2006 19:42:14

Number of Replicates: 3

Batch ID: ANALYST = FCW , BATCH = 580-10401

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AM\580-81233.063

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	2.281	ug/L	3.9	3.333	704.5	4.5
Fe	54	453.932	ug/L	4.0	21038.453	318371.0	3.0
Ti	47	104.038	ug/L	3.4	226.669	81542.7	2.6
V	51	20.866	ug/L	3.1	-469.635	202684.1	2.3
Cr	52	8.323	ug/L	1.9	3362.646	70946.1	1.0
Mn	55	21.560	ug/L	2.2	496.678	296873.1	1.4
Co	59	21.042	ug/L	3.1	72.222	212373.3	2.3
Ni	60	21.216	ug/L	2.1	28.889	44632.8	1.2
Cu	65	10.683	ug/L	3.1	137.779	25451.4	2.8
Zn	68	21.078	ug/L	0.7	675.727	24616.4	1.5
As	75	83.853	ug/L	1.1	7276.312	135105.4	1.8
Se	82	84.326	ug/L	2.4	86.667	14017.7	1.6
Ge	74		ug/L		1637615.021	1521028.3	0.8
Sr	88	0.040	ug/L	9.3	221.113	971.2	8.1
Mo	95	104.608	ug/L	4.6	40.000	275640.4	5.0
Ag	107	13.872	ug/L	2.6	38.889	119190.4	1.0
Cd	114	2.085	ug/L	6.8	6.775	9925.0	6.0
Sn	118	102.574	ug/L	2.7	112.223	536587.8	3.3
Sb	121	57.303	ug/L	7.4	192.224	330368.1	7.2
Ba	137	83.676	ug/L	0.9	120.001	284790.5	1.1
Rh	103		ug/L		1743055.102	1598144.8	1.6
Tl	203	85.411	ug/L	0.6	45.556	929484.8	1.8
Pb	208	21.214	ug/L	0.7	515.561	764044.8	0.7
U	238	0.001	ug/L	123.4	65.556	90.0	39.2
Ho	165		ug/L		1793025.535	1699177.1	1.4

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: 580-81234

Sample Description: 50X

Sample Date/Time: Tuesday, August 29, 2006 19:46:20

Number of Replicates: 3

Batch ID: ANALYST = FCW , BATCH = 580-10401

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AM\580-81234.064

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	2.056	ug/L	14.6	3.333	635.6	13.7
Fe	54	451.610	ug/L	1.6	21038.453	317372.6	1.4
Ti	47	104.457	ug/L	1.7	226.669	82001.5	1.2
V	51	21.130	ug/L	2.1	-469.635	205575.0	1.3
Cr	52	8.348	ug/L	2.4	3362.646	71260.6	2.0
Mn	55	21.421	ug/L	0.6	496.678	295438.6	0.8
Co	59	21.022	ug/L	1.5	72.222	212514.3	1.1
Ni	60	21.060	ug/L	2.4	28.889	44370.7	1.5
Cu	65	10.454	ug/L	1.2	137.779	24949.1	2.1
Zn	68	21.187	ug/L	2.5	675.727	24775.1	2.2
As	75	84.243	ug/L	0.6	7276.312	135900.5	1.2
Se	82	84.807	ug/L	1.3	86.667	14119.0	0.3
Ge	74		ug/L		1637615.021	1523317.3	1.0
Sr	88	0.029	ug/L	4.5	221.113	774.5	2.0
Mo	95	104.683	ug/L	4.1	40.000	278867.9	5.3
Ag	107	13.689	ug/L	3.2	38.889	118894.1	2.4
Cd	114	2.068	ug/L	4.6	6.775	9954.3	5.3
Sn	118	103.248	ug/L	1.9	112.223	545981.3	3.2
Sb	121	57.041	ug/L	7.6	192.224	332656.2	9.0
Ba	137	82.931	ug/L	1.3	120.001	285282.8	0.9
Rh	103		ug/L		1743055.102	1615308.2	1.3
Tl	203	83.631	ug/L	1.7	45.556	915829.0	1.1
Pb	208	21.115	ug/L	0.9	515.561	765365.3	0.9
U	238	0.001	ug/L	29.3	65.556	96.7	9.1
Ho	165		ug/L		1793025.535	1710142.0	1.7

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: QC Std 3

Sample Description:

Sample Date/Time: Tuesday, August 29, 2006 19:50:26

Number of Replicates: 3

Batch ID:

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AM\QC Std 3.065

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	51.725	ug/L	10.3	3.333	16040.5	9.9
Fe	54	494.709	ug/L	1.5	21038.453	348304.9	1.9
Ti	47	49.480	ug/L	0.4	226.669	39235.8	0.2
V	51	49.572	ug/L	1.3	-469.635	486373.9	0.7
Cr	52	49.855	ug/L	1.2	3362.646	412968.7	0.7
Mn	55	50.157	ug/L	0.5	496.678	696106.9	0.6
Co	59	49.448	ug/L	0.4	72.222	503414.4	1.0
Ni	60	49.945	ug/L	0.5	28.889	105958.4	0.1
Cu	65	49.855	ug/L	2.0	137.779	119344.3	1.9
Zn	68	50.324	ug/L	0.8	675.727	58403.5	1.0
As	75	50.176	ug/L	0.9	7276.312	84279.7	0.8
Se	82	50.282	ug/L	2.0	86.667	8465.4	2.5
Ge	74		ug/L		1637615.021	1534248.1	0.6
Sr	88	52.492	ug/L	1.9	221.113	1023012.0	1.2
Mo	95	51.429	ug/L	5.3	40.000	136751.1	5.0
Ag	107	50.697	ug/L	3.3	38.889	439543.6	2.7
Cd	114	51.482	ug/L	2.1	6.775	247218.2	1.5
Sn	118	52.192	ug/L	3.8	112.223	275534.9	3.4
Sb	121	52.698	ug/L	4.1	192.224	306621.5	3.8
Ba	137	50.707	ug/L	1.2	120.001	174207.4	1.0
Rh	103		ug/L		1743055.102	1612744.7	0.7
Tl	203	49.687	ug/L	1.3	45.556	558540.9	1.6
Pb	208	49.368	ug/L	0.7	515.561	1836091.2	1.2
U	238	48.826	ug/L	4.5	65.556	2003793.9	5.0
Ho	165		ug/L		1793025.535	1755143.9	0.6

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: QC Std 4

Sample Description:

Sample Date/Time: Tuesday, August 29, 2006 19:54:35

Number of Replicates: 3

Batch ID:

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AM\QC Std 4.066

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	0.001	ug/L	1043.1	3.333	3.3	100.0
Fe	54	-1.003	ug/L	248.8	21038.453	18524.2	7.1
Ti	47	-0.029	ug/L	184.7	226.669	184.4	21.2
V	51	0.430	ug/L	41.8	-469.635	3676.5	46.5
Cr	52	0.036	ug/L	71.6	3362.646	3352.5	5.2
Mn	55	0.004	ug/L	65.5	496.678	502.2	5.2
Co	59	0.002	ug/L	59.9	72.222	82.2	12.4
Ni	60	0.007	ug/L	31.1	28.889	41.1	12.4
Cu	65	0.034	ug/L	18.3	137.779	204.4	8.0
Zn	68	-0.106	ug/L	36.6	675.727	497.9	9.5
As	75	-0.107	ug/L	30.0	7276.312	6476.2	1.8
Se	82	0.056	ug/L	357.9	86.667	87.8	35.1
Ge	74		ug/L		1637615.021	1493674.1	1.5
Sr	88	0.002	ug/L	135.5	221.113	238.9	20.9
Mo	95	0.819	ug/L	6.0	40.000	2151.3	3.6
Ag	107	0.027	ug/L	7.6	38.889	261.1	4.8
Cd	114	0.000	ug/L	2704.5	6.775	7.1	330.0
Sn	118	1.580	ug/L	3.5	112.223	8209.7	5.5
Sb	121	1.009	ug/L	1.7	192.224	5879.3	1.6
Ba	137	0.004	ug/L	222.1	120.001	122.2	26.9
Rh	103		ug/L		1743055.102	1567960.6	2.3
Tl	203	0.005	ug/L	28.4	45.556	93.3	15.6
Pb	208	0.004	ug/L	19.2	515.561	650.0	4.5
U	238	0.058	ug/L	8.7	65.556	2376.9	8.1
Ho	165		ug/L		1793025.535	1700713.6	0.4

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: 580-81229

Sample Description: 5X

Sample Date/Time: Tuesday, August 29, 2006 19:58:43

Number of Replicates: 3

Batch ID: ANALYST = FCW , BATCH = 580-10401

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AM\580-81229.067

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	0.012	ug/L	1.3	3.333	6.7	0.0
Fe	54	18.060	ug/L	11.6	21038.453	30405.4	4.4
Ti	47	1.169	ug/L	4.8	226.669	1087.8	3.4
V	51	0.461	ug/L	54.3	-469.635	3909.9	60.1
Cr	52	1.065	ug/L	8.1	3362.646	11417.7	5.3
Mn	55	2.606	ug/L	1.6	496.678	35112.1	1.8
Co	59	0.054	ug/L	3.6	72.222	596.7	3.0
Ni	60	0.275	ug/L	2.9	28.889	584.5	2.3
Cu	65	0.262	ug/L	7.4	137.779	723.4	5.4
Zn	68	0.763	ug/L	4.6	675.727	1447.6	3.0
As	75	-0.799	ug/L	60.4	7276.312	5356.8	13.9
Se	82	0.152	ug/L	78.4	86.667	102.2	18.5
Ge	74		ug/L		1637615.021	1471345.7	0.7
Sr	88	31.112	ug/L	0.2	221.113	580107.3	0.2
Mo	95	0.436	ug/L	10.7	40.000	1144.5	10.0
Ag	107	0.037	ug/L	7.7	38.889	344.4	7.0
Cd	114	0.048	ug/L	6.5	6.775	225.9	5.9
Sn	118	2.013	ug/L	6.6	112.223	10260.3	6.6
Sb	121	1.182	ug/L	3.9	192.224	6747.6	3.8
Ba	137	1.332	ug/L	3.1	120.001	4480.9	3.4
Rh	103		ug/L		1743055.102	1542655.2	0.4
Tl	203	0.002	ug/L	58.0	45.556	67.8	20.5
Pb	208	0.022	ug/L	1.1	515.561	1305.6	1.2
U	238	0.016	ug/L	8.7	65.556	725.6	7.4
Ho	165		ug/L		1793025.535	1727445.6	0.6

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: 580-81230

Sample Description: 5X

Sample Date/Time: Tuesday, August 29, 2006 20:02:50

Number of Replicates: 3

Batch ID: ANALYST = FCW , BATCH = 580-10401

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AM\580-81230.068

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	-0.003	ug/L	405.6	3.333	2.2	173.2
Fe	54	189.069	ug/L	2.0	21038.453	146966.6	2.7
Ti	47	1.533	ug/L	11.8	226.669	1437.9	10.6
V	51	0.874	ug/L	89.4	-469.635	8140.0	92.6
Cr	52	1.136	ug/L	7.2	3362.646	12627.0	3.6
Mn	55	44.888	ug/L	1.3	496.678	630234.9	2.4
Co	59	0.072	ug/L	1.7	72.222	806.7	2.9
Ni	60	0.356	ug/L	9.0	28.889	791.1	6.8
Cu	65	0.327	ug/L	10.7	137.779	921.1	10.1
Zn	68	0.685	ug/L	5.7	675.727	1435.3	3.5
As	75	-1.206	ug/L	45.5	7276.312	5021.8	18.9
Se	82	0.246	ug/L	63.0	86.667	123.3	19.5
Ge	74		ug/L		1637615.021	1551961.6	1.9
Sr	88	49.589	ug/L	1.0	221.113	957369.3	1.5
Mo	95	0.276	ug/L	6.5	40.000	763.4	7.0
Ag	107	0.041	ug/L	5.3	38.889	391.1	4.7
Cd	114	0.007	ug/L	46.9	6.775	37.6	40.0
Sn	118	1.282	ug/L	6.3	112.223	6804.3	6.8
Sb	121	0.771	ug/L	1.1	192.224	4619.8	1.1
Ba	137	2.392	ug/L	2.9	120.001	8243.1	1.7
Rh	103		ug/L		1743055.102	1597476.3	1.3
Tl	203	0.004	ug/L	16.8	45.556	92.2	8.3
Pb	208	0.045	ug/L	4.0	515.561	2255.6	3.2
U	238	0.019	ug/L	3.9	65.556	876.7	3.4
Ho	165		ug/L		1793025.535	1814480.3	0.7

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: 580-81228

Sample Description: 20X

Sample Date/Time: Tuesday, August 29, 2006 20:06:55

Number of Replicates: 3

Batch ID: ANALYST = FCW , BATCH = 580-10401

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AM\580-81228.069

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	0.012	ug/L	181.9	3.333	6.7	100.0
Fe	54	108.609	ug/L	1.9	21038.453	87535.9	0.4
Ti	47	0.163	ug/L	34.0	226.669	324.4	11.9
V	51	0.868	ug/L	35.2	-469.635	7728.1	38.0
Cr	52	0.421	ug/L	8.4	3362.646	6304.5	5.2
Mn	55	93.214	ug/L	1.5	496.678	1232586.3	0.5
Co	59	0.250	ug/L	2.8	72.222	2488.1	3.5
Ni	60	0.490	ug/L	8.1	28.889	1016.7	8.9
Cu	65	7.099	ug/L	1.6	137.779	16303.1	1.6
Zn	68	20.046	ug/L	1.2	675.727	22539.2	2.1
As	75	0.778	ug/L	23.7	7276.312	7642.3	3.7
Se	82	2.432	ug/L	16.9	86.667	464.5	15.2
Ge	74		ug/L		1637615.021	1462393.9	1.1
Sr	88	15.629	ug/L	1.4	221.113	269607.0	2.0
Mo	95	48.059	ug/L	6.7	40.000	113094.7	7.4
Ag	107	0.007	ug/L	27.2	38.889	83.3	17.4
Cd	114	0.006	ug/L	252.8	6.775	30.4	208.6
Sn	118	0.484	ug/L	6.7	112.223	2352.5	6.8
Sb	121	13.557	ug/L	0.6	192.224	69900.3	0.2
Ba	137	1.631	ug/L	2.5	120.001	5050.0	1.8
Rh	103		ug/L		1743055.102	1426660.7	0.7
Tl	203	0.027	ug/L	7.1	45.556	325.6	6.6
Pb	208	0.221	ug/L	2.2	515.561	8144.5	2.5
U	238	0.006	ug/L	7.8	65.556	276.7	6.7
Ho	165		ug/L		1793025.535	1641415.7	1.2

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: QC Std 3

Sample Description:

Sample Date/Time: Tuesday, August 29, 2006 20:11:02

Number of Replicates: 3

Batch ID:

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AM\QC Std 3.070

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	53.409	ug/L	10.1	3.333	15948.2	9.6
Fe	54	515.319	ug/L	1.6	21038.453	348601.6	2.4
Ti	47	49.983	ug/L	1.9	226.669	38161.0	1.0
V	51	50.942	ug/L	0.5	-469.635	481332.0	0.7
Cr	52	51.323	ug/L	1.1	3362.646	409285.1	0.2
Mn	55	51.870	ug/L	0.9	496.678	693200.1	1.1
Co	59	51.670	ug/L	1.2	72.222	506508.7	0.3
Ni	60	51.358	ug/L	2.1	28.889	104911.9	1.7
Cu	65	49.885	ug/L	0.7	137.779	114995.4	1.2
Zn	68	50.824	ug/L	0.8	675.727	56793.1	1.3
As	75	50.196	ug/L	0.5	7276.312	81187.5	0.6
Se	82	52.098	ug/L	2.7	86.667	8443.2	2.9
Ge	74		ug/L		1637615.021	1477442.6	1.1
Sr	88	52.213	ug/L	1.0	221.113	986382.7	1.1
Mo	95	51.300	ug/L	4.9	40.000	132252.8	5.4
Ag	107	49.664	ug/L	2.5	38.889	417453.0	3.0
Cd	114	52.571	ug/L	2.3	6.775	244717.3	2.4
Sn	118	51.091	ug/L	3.0	112.223	261485.7	3.5
Sb	121	51.391	ug/L	3.4	192.224	289891.1	3.9
Ba	137	51.629	ug/L	0.8	120.001	171931.2	1.0
Rh	103		ug/L		1743055.102	1563203.9	0.6
Tl	203	49.527	ug/L	1.8	45.556	556307.5	1.6
Pb	208	49.585	ug/L	1.2	515.561	1842663.6	0.1
U	238	49.545	ug/L	6.3	65.556	2031493.2	6.4
Ho	165		ug/L		1793025.535	1753903.9	1.1

STL Seattle Perkin Elmer Elan 6100 ICP-MS

Sample ID: QC Std 4

Sample Description:

Sample Date/Time: Tuesday, August 29, 2006 20:15:11

Number of Replicates: 3

Batch ID:

Method File: C:\elandata\Method\0000000000-ICPMS.mth

Dataset File: C:\elandata\DataSet\082906AM\QC Std 4.071

Results (ug / l) Dual Detector Mode

Analyte	Mass	Conc. Mean	Units	Conc. RSD	Blank Intensity	Meas. Intens. Mean	Meas. Intens. RSD
Be	9	-0.006	ug/L	104.4	3.333	1.1	173.2
Fe	54	-0.382	ug/L	504.4	21038.453	18439.1	6.4
Ti	47	-0.083	ug/L	37.4	226.669	138.9	16.9
V	51	0.551	ug/L	4.5	-469.635	4713.9	5.2
Cr	52	0.057	ug/L	37.8	3362.646	3431.7	5.3
Mn	55	0.001	ug/L	216.4	496.678	457.8	7.5
Co	59	0.001	ug/L	145.0	72.222	70.0	12.6
Ni	60	-0.000	ug/L	1809.2	28.889	25.6	7.5
Cu	65	0.120	ug/L	17.9	137.779	393.3	12.0
Zn	68	-0.107	ug/L	58.3	675.727	483.4	13.8
As	75	-0.213	ug/L	87.5	7276.312	6148.8	4.0
Se	82	-0.030	ug/L	297.0	86.667	72.2	18.7
Ge	74		ug/L		1637615.021	1454077.9	0.6
Sr	88	0.002	ug/L	82.9	221.113	225.6	11.9
Mo	95	0.593	ug/L	8.2	40.000	1525.7	7.8
Ag	107	0.056	ug/L	3.2	38.889	492.2	3.2
Cd	114	0.002	ug/L	102.8	6.775	15.1	62.3
Sn	118	0.935	ug/L	0.9	112.223	4767.7	1.1
Sb	121	0.709	ug/L	3.2	192.224	4070.7	3.1
Ba	137	0.007	ug/L	81.5	120.001	126.7	13.9
Rh	103		ug/L		1743055.102	1526091.0	0.3
Tl	203	0.003	ug/L	11.7	45.556	73.3	4.5
Pb	208	0.003	ug/L	26.6	515.561	585.6	3.8
U	238	0.057	ug/L	7.5	65.556	2340.2	7.7
Ho	165		ug/L		1793025.535	1702877.7	0.6

LABORATORY WORKSHEETS

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-10401












Analyst: Boardway, Peter A

Batch Open: 8/29/2006 11:47:13AM

Method Code: 580-3005A-580

Batch End:

Acid Digestion of Waters for Total Recoverable or Dissolved Metals

Input Sample Lab ID (Analytical Method)	SDG	Matrix	Initial Amount	Final Amount	Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
1 580-3377-K-1 (6020)	N/A	Water	50 mL	50 mL	8/31/06	8_Days	4	(SX)	 ✓
2 580-3377-K-1~DU (6020)	N/A	Water	50 mL	50 mL	8/31/06	8_Days	4		 ✓
3 580-3377-K-1~MS (6020)	N/A	Water	50 mL	50 mL	8/31/06	8_Days	4		 ✓
4 580-3377-K-1~MSD (6020)	N/A	Water	50 mL	50 mL	8/31/06	8_Days	4		 ✓
580-3418-A-1 (6020)	N/A	Water	50 mL	50 mL	8/30/06	24_Hours	2	20x	 ✓
580-3400-F-5 (6020)	N/A	Water	50 mL	50 mL	9/6/06	8_Days - R	2	(SX)	 ✓
580-3400-D-46 (6020)	N/A	Water	50 mL	50 mL	9/6/06	8_Days - R	2	(SX)	 ✓
8 MB~580-10401/8 N/A	N/A		50 mL	50 mL	N/A	N/A	N/A		 ✓
9 LCS~580-10401/9 N/A	N/A		50 mL	50 mL	N/A	N/A	N/A		 ✓
10 LCSD~580-10401/10 N/A	N/A		50 mL	50 mL	N/A	N/A	N/A		 ✓
11 LCSSRM~580-10401/11 N/A	N/A		50 mL	50 mL	N/A	N/A	N/A		 ✓

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-10401

Analyst: Boardway, Peter A

Batch Open: 8/29/2006 11:47:13AM

Method Code: 580-3005A-580

Batch End:

Batch Notes

Batch Comment

First End time 1:50

Lot # of hydrochloric acid 4105090

Lot # of Nitric Acid 1104100

Hood ID or number 06

Hot Block ID number 226751

Oven, Bath or Block Temperature 1 95

Oven, Bath or Block Temperature 2

First Start time 11:50

ID number of the thermometer 15-041-1A

Digestion Tubes

Comments

Login Comments for Job 3418: Verified pH <2 on preserved bottle

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-10401

Analyst: Boardway, Peter A

Batch Open: 8/29/2006 11:47:13AM

Method Code: 580-3005A-580

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
580-3377-K-1 MS	m-GPS-1_00005	1 mL	50 mL		
580-3377-K-1 MS	m-GPS-2_00005	1 mL	50 mL		
580-3377-K-1 MS	m-GPS-3_00005	1 mL	50 mL		
580-3377-K-1 MS	m-GPS-4_00005	1 mL	50 mL		
580-3377-K-1 MSD	m-GPS-1_00005	1 mL	50 mL		
580-3377-K-1 MSD	m-GPS-2_00005	1 mL	50 mL		
580-3377-K-1 MSD	m-GPS-3_00005	1 mL	50 mL		
580-3377-K-1 MSD	m-GPS-4_00005	1 mL	50 mL		
LCS 580-10401/9	m-GPS-1_00005	1 mL	50 mL		
LCS 580-10401/9	m-GPS-2_00005	1 mL	50 mL		
LCS 580-10401/9	m-GPS-3_00005	1 mL	50 mL		
LCS 580-10401/9	m-GPS-4_00005	1 mL	50 mL		
LCSD 580-10401/10	m-GPS-1_00005	1 mL	50 mL		
LCSD 580-10401/10	m-GPS-2_00005	1 mL	50 mL		
LCSD 580-10401/10	m-GPS-3_00005	1 mL	50 mL		
LCSD 580-10401/10	m-GPS-4_00005	1 mL	50 mL		
LCSSRM 580-10401/11	m-GPS-1_00005	1 mL	50 mL		

Metals/Inorganics Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 580-10401

Analyst: Boardway, Peter A

Batch Open: 8/29/2006 11:47:13AM

Method Code: 580-3005A-580

Batch End:

LCSSRM 580-10401/11	m-GPS-2_00005	1 mL	50 mL		
LCSSRM 580-10401/11	m-GPS-3_00005	1 mL	50 mL		
LCSSRM 580-10401/11	m-GPS-4_00005	1 mL	50 mL		

Other Reagents:

Reagent

Amount/Units

Lot#:

APPENDIX C

Chemical Data Quality Review Report

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ACRONYMS AND ABBREVIATIONS

°C	degrees centigrade
µg/L	micrograms per liter
AK	State of Alaska Method
Bristol	Bristol Construction Services, LLC
BTEX	benzene, toluene, ethylbenzene, and total xylenes
CLP	Contract Laboratory Program (EPA)
CoC	chain-of-custody
DOD QSM	Department of Defense Quality Systems Manual for Environmental Laboratories
DQO	data quality objective
DRO	diesel-range organics
EPA	U.S. Environmental Protection Agency
FUDS	Formerly Used Defense Sites
GRO	gasoline-range organics
HTRW	Hazardous, Toxic, and Radioactive Waste
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
MB	method blank
MDL	method detection limit
MS	matrix spike
MSD	matrix spike duplicate
PAH	polynuclear aromatic hydrocarbons
pH	potential hydrogen
PQL	practical quantitation limit
QA	quality assurance
QC	quality control
Report	Chemical Data Quality Review Report
RPD	relative percent difference
RRO	residual-range organics

ACRONYMS AND ABBREVIATIONS (continued)

SGS	SGS Environmental Services, Inc.
SIM	selective ion monitoring
STL	Severn Trent Laboratories
SW	Solid Waste Method (EPA)
TAL	target analyte list
USACE	U.S. Army Corps of Engineers, Alaska District

1 **EXECUTIVE SUMMARY**

2 This Report has been completed for samples collected from August 2006 for the Gambell
3 Formerly Used Defense Site Remedial Action. All laboratory results generated as part of the
4 Gambell groundwater sampling have undergone data verification and review.

5 Quality assurance/quality control (QA/QC) samples collected during sampling activities,
6 consisted of duplicate/triplicate samples. Laboratory-prepared method blanks, laboratory
7 control samples, laboratory control sample duplicates, and trip blanks were also part of the
8 QA/QC program. Trip blanks were analyzed for volatile parameters.

9 QA/QC samples were collected at the rate of one per 10 samples, or 10 percent. QC samples
10 were analyzed for the same parameters, and in the same extraction batches as the primary
11 samples. QA samples were submitted to a different laboratory to be analyzed for the same
12 parameters. QA and QC samples can be used to evaluate the precision and reproducibility of
13 primary sample results. Trip blanks were collected at approximately one per day, with a
14 minimum of one per laboratory. Trip blanks were tested for volatile compounds only.

15 In general, the data verification and review found most data usable as delivered by the
16 analytical laboratories. Some data required qualification due to results of field QA/QC,
17 laboratory QA/QC, or failure to adhere to method criteria, and have been flagged
18 appropriately. Data are presented with appropriate qualifiers within the body of the main
19 report.

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1 **1.0 INTRODUCTION**

2 This Chemical Data Quality Review Report (Report) has been completed on the submitted
3 data packages in accordance with an agreement between Bristol Construction Services, LLC
4 (Bristol) and the U.S. Army Corps of Engineers, Alaska District (USACE). As per this
5 agreement, all laboratory results generated as part of the Gambell Formerly Used Defense Site
6 (FUDS) Remedial Action, at Gambell, Alaska, will be reviewed. The USACE assigned this
7 project to Bristol as Contract No. W911KB-05-P-0103.

8 The data collected as part of this site assessment project has undergone data verification and
9 data review. Data verification is a process for evaluating the completeness, correctness,
10 consistency, and compliance of a data package against a standard or contract. Data
11 verification includes confirmation that:

- 12 • Data for all samples submitted to the laboratories have been provided for all requested
13 analyses;
- 14 • All relevant laboratory internal quality control (QC) data, including chromatograms
15 for fuel analyses, have been provided; and
- 16 • The analytical methods specified by the contract or on the chain-of-custody (CoC)
17 were performed.

18 Data review is the process of data assessment, which includes an examination of laboratory
19 data and internal QC sample results, comparison of the data with analytical method
20 procedures and QC requirements, and identification of anomalous data. The following items
21 are reviewed as part of data verification:

- 22 • Sample receipt conditions
 - 23 – Sample preservation,
 - 24 – Cooler temperatures upon receipt,
 - 25 – CoC condition/correspondence to submitted sample set, and
 - 26 – Presence/absence of custody seals.
- 27 • Extraction procedures
 - 28 – Holding times,
 - 29 – Method blanks (MBs),
 - 30 – Laboratory control samples (LCSs)/laboratory control sample duplicates (LCSDs),

- 1 – Matrix spike (MSs)/matrix spike duplicates (MSDs),
2 – Laboratory duplicate samples, and
3 – Surrogate recoveries.
4 • Sampling procedures
5 – Trip blanks,
6 – Equipment blanks, and
7 – Quality assurance (QA)/QC samples.
8 • Correspondence to method criteria and project data quality objectives (DQOs)
9 – Method criteria, and
10 – Project DQOs.
- 11 No information on sample runs, instrument blanks, instrument tunes, or internal standards,
12 were reviewed for correspondence with analytical method, USACE, Department of Defense
13 Quality Systems Manuals for Environmental Laboratories (DOD QSM), and U.S.
14 Environmental Protection Agency (EPA) Contract Laboratory Program (CLP) requirements.
- 15 Data verification and review has been performed in accordance with:
- 16 • USACE Engineering Manual 200-1-6 Chemical Quality Assurance for Hazardous,
17 Toxic, and Radioactive Waste (HTRW) Projects, 10 October 1997;
18 • USACE Engineer Regulation 1110-1-263, Chemical Data Quality Management for
19 HTRW Remedial Activities, April 1998;
20 • Department of Defense Quality Systems Manual for Environmental Laboratories
21 (DOD QSM), June 2002;
22 • EPA 540/R-94/012 USEPA CLP National Functional Guidelines for Organic Data
23 Review, February 1994; and
24 • EPA 540/R-94/013 USEPA CLP National Functional Guidelines for Inorganic Data
25 Review, February 1994.
- 26 The data to be validated and reviewed includes data from a single groundwater sampling
27 event at the Gambell FUDS site, in Gambell, Alaska, which took place in August 2006.
28 Project and QC samples were submitted to SGS Environmental Services, Inc. (SGS), in
29 Anchorage, Alaska. QA samples were submitted to Severn Trent Laboratories (STL) in
30 Seattle, Washington. Samples for MSs/MSDs were not submitted as part of this sampling
31 event.

1 Samples were analyzed for the following compounds:

- 2 • Gasoline-range organics (GRO) in water by State of Alaska Method (AK) 101;
- 3 • Benzene, toluene, ethylbenzene, and total xylenes (BTEX) in water by EPA Solid
4 Waste Method (SW)8260B;
- 5 • Diesel-range organics (DRO) and residual-range organics (RRO) in water by
6 AK102/103;
- 7 • Polynuclear aromatic hydrocarbons (PAHs) in water by SW8270C selective ion
8 monitoring (SIMs); and
- 9 • Metals arsenic, barium, cadmium, chromium, lead, nickel, and vanadium, in water by
10 SW6010B.

11 The following data qualifiers may be used to identify data points where data verification or
12 review indicates that results should be qualified before acceptance:

- 13 • B – The analyte was found in the sample at less than 5 times the concentration in the
14 MB. Results may be biased high or false positive.
- 15 • E – The sample was detected above the analyte calibration curve. Results should be
16 considered estimated.
- 17 • FB – The analyte was found in the sample at less than 5 times the concentration in the
18 field blank. Results may be biased high or false positive.
- 19 • TB – The analyte was found in the sample at less than 5 times the concentration in the
20 trip blank, or a trip blank was not provided and exposure to contamination cannot be
21 evaluated. Results may be biased high or false positive.
- 22 • J – The associated value is an estimated quantity.
- 23 • JH – The associated value is an estimated quantity with a potential high bias.
- 24 • JL – The associated value is an estimated quantity with a potential low bias.
- 25 • NJ – The analyte was detected between the practical quantitation limit (PQL) and
26 method detection limit. The associated value is an estimated quantity.
- 27 • R – The data are unusable. The analyte may or may not be present.

28 The data from each data package has been verified and reviewed, and is presented separately
29 in the following sections.

1

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1 **2.0 DATA VERIFICATION**

2 Eight groundwater samples were collected in August 2006 and submitted to SGS, including
3 one QC sample. One groundwater sample (a QA sample) was submitted to STL. One trip
4 blank was provided to each laboratory to evaluate the potential for sample contamination.

5 SGS received nine samples for GRO/BTEX, DRO/RRO, PAH, and metals analyses. The
6 samples were analyzed for all parameters requested on the CoC. All samples were analyzed
7 by the analytical methods specified on the CoC.

8 Field sample numbers, corresponding laboratory numbers, and analyses, are presented in
9 Table 1.

10 **2.1 SGS WORK ORDER 164875**

11 **2.1.1 GRO Analysis**

12 GRO samples were extracted and run under Batches VXX15871 on August 28, 2006;
13 VXX15877 on August 30, 2006; and VXX15887 on August 31, 2006. A MB and a
14 LCS/LCSD pair were analyzed as part of Batch VXX15871. A MB, LCS, and a MS/MSD
15 pair were analyzed as part of extraction Batches VSS15877 and VSS15887. The MS/MSD
16 was not performed on a project sample. MS/MSD samples from a previous sampling event
17 can be used to evaluate matrix effects. Chromatograms were provided for all project samples
18 and extraction QC.

19 **2.1.2 BTEX Analysis**

20 BTEX samples were extracted and run under Batch VXX15821 on August 22, 2006. A MB
21 and a LCS/LCSD pair were analyzed as part of the extraction batch. An additional sample
22 was not provided for MS/MSD. MS/MSD samples from a previous sampling event can be
23 used to evaluate matrix effects.

1 **Table 1 Sample Identification and Analysis**

Sample Number	Matrix	Laboratory Number	GRO (AK 101)	BTEX (SW8260B)	DRO/RRO (AK102/103)	PAHs (SW8270C SIM)	As, Ba, Cd, Cr, Pb, Ni, V (SW6010B)	Remarks
06GAM05GS17	water	SGS 1064875-01	X	X	X	X	X	
06GAM05GS18	water	SGS 1064875-02	X	X			X	
06GAM05GS19	water	SGS 1064875-03	X	X	X	X	X	
06GAM05GS20	water	STL 580-3377-1	X	X	X	X	X	Triplicate of -02
06GAM05GS21	water	SGS 1064875-04	X	X	X	X	X	Duplicate of -02
06GAM05GS22	water	SGS 1064875-05	X	X	X	X	X	
06GAM05GS23	water	SGS 1064875-06	X	X	X	X	X	
06GAM05GS24	water	SGS 1064875-07	X	X	X	X	X	
06GAM05GS25	water	SGS 1064875-08	X	X	X	X	X	
06GAM05GSTB4 ^a	water	SGS 1064875-10	X	X				SGS Trip Blank
06GAM05GSTB4 ^a	water	SGS 1064875-11	X	X				SGS Trip Blank
06GAM05GSTB4 ^a	water	SGS 1064875-12	X	X				SGS Trip Blank
06GAM05GSTB5	water	STL 580-3377-2	X	X				STL Trip Blank

2 Notes:

3 a = Volatile samples were transported in four coolers; three of the four coolers had a trip blank.

- | | | | | | |
|------|---|---|-----|---|-----------------------------------|
| AK | = | State of Alaska Method | PAH | = | polynuclear aromatic hydrocarbons |
| As | = | arsenic | Pb | = | lead |
| Ba | = | barium | RRO | = | residual-range organics |
| BTEX | = | benzene, toluene, ethylbenzene, and total xylenes | SGS | = | SGS Environmental Services, Inc. |
| Cd | = | cadmium | SIM | = | selective ion monitoring |
| Cr | = | chromium | STL | = | Severn Trent Laboratories |
| DRO | = | diesel-range organics | SW | = | EPA Solid Waste Method |
| GRO | = | gasoline-range organics | V | = | Vanadium |
| Ni | = | Nickel | | | |

4 **2.1.3 DRO/RRO Analysis**

5 DRO/RRO samples were extracted under Batches XXX17157 on August 22, 2006 and
 6 XXX17165 on August 23, 2006. A MB and a LCS/LCSD pair were analyzed as part of each
 7 extraction batch. An additional sample was not provided for MS/MSD. MS/MSD samples
 8 from a previous sampling event can be used to evaluate matrix effects. Chromatograms were
 9 provided for all project samples and extraction QC.

1 **2.1.4 PAH Analysis**

2 PAH samples were extracted under Batch XXX17166 on August 23, 2006. A MB and a
3 LCS/LCSD pair were analyzed as part of the extraction batch. An additional sample was not
4 provided for MS/MSD. MS/MSD samples from previous sampling events can be used to
5 evaluate matrix effects. PAH parameters tested for SW8270 SIM were verified against the
6 DOD QSM target analyte list (TAL). The analyses included all of the target analytes on the
7 TAL. The surrogate used for PAH analysis was not listed in the TAL; however, this does not
8 affect sample results.

9 **2.1.5 Metals Analysis**

10 Metals samples were extracted under Batch MXX18020 on August 22, 2006. A MB, a LCS,
11 and a MS/MSD pair were analyzed as part of the extraction batch. An additional sample was
12 not provided for MS/MSD; therefore, the MS/MSD was performed on an unrelated sample.
13 MS/MSD samples from a previous sampling event can be used to evaluate matrix effects.

14 **2.2 STL WORK ORDER 580-3377**

15 **2.2.1 GRO Analysis**

16 GRO samples were extracted and run under Batch 580-10655 on August 31, 2006. A MB and
17 a LCS/LCSD were analyzed as part of the extraction batch. An additional sample was not
18 provided for MS/MSD. Chromatograms were provided for all samples.

19 **2.2.2 BTEX Analysis**

20 BTEX samples were extracted and run under Batch 580-10651 on August 31, 2006. A MB
21 and a LCS/LCSD pair were analyzed as part of the extraction batch. An additional sample
22 was not provided for MS/MSD.

23 **2.2.3 DRO/RRO Analysis**

24 The DRO/RRO sample was extracted under Batch 580-10208 on August 25, 2006. A MB
25 and a LCS/LCSD pair were analyzed as part of the extraction batch. An additional sample
26 was not provided for MS/MSD. Chromatograms were provided for all project samples and
27 extraction QC.

1 **2.2.4 PAH Analysis**

2 PAH samples were extracted under Batch 580-10210 on August 25, 2006. A MB and a
3 LCS/LCSD pair were analyzed as part of the extraction batch. An additional sample was not
4 provided for MS/MSD. PAH parameters tested for SW8270 SIMs were verified against the
5 DOD QSM TAL. The analyses included all of the target analytes on the TAL with the
6 exception of benzo(k)fluoranthene. Because all other TAL compounds were present,
7 reproducibility of PAH results can be evaluated without this compound. The surrogate used
8 for PAH analysis was not listed in the TAL; however, this does not affect sample results.

9 **2.2.5 Metals Analysis**

10 Metals samples were digested under Batch 580-10401 on August 29, 2006. A MB,
11 LCS/LCSD pair, a laboratory sample duplicate, and MS/MSD pair were analyzed as part of
12 the extraction batch.

1 **3.0 DATA REVIEW**

2 Eight groundwater samples were collected in September 2005 and submitted to the SGS,
3 including one field sample duplicate. One groundwater sample (a field sample triplicate) was
4 submitted to STL. Three trip blanks were provided to SGS and one to STL to evaluate the
5 potential for sample contamination.

6 **3.1 SGS WORK ORDER 1064875**

7 **3.1.1 Sample Receipt Conditions**

8 Primary samples were received at SGS in good condition with the exceptions noted below.
9 Custody seals were present on the cooler and the CoC agreed with the sample labels, number
10 of jars, and preservatives. Samples were assigned SGS Work Order 1064875. Samples were
11 received at 1.3 degrees centigrade (°C) (cooler 1); 1.8 °C (cooler 2), -0.5 °C (cooler 3), and
12 1.9 °C (cooler 4). No notes indicating that samples were received with ice were on the
13 sample receipt forms; therefore, results were not affected. All samples were received in
14 proper containers, and properly preserved for the analyses requested. Sample containers for
15 GRO/BTEX, DRO/RRO, and metals were preserved to a potential hydrogen (pH) of less than
16 2, and all samples were extracted and analyzed within their holding times.

17 **3.1.2 GRO Analysis**

18 Surrogate recoveries for all GRO samples were within QC limits. All extraction QC samples
19 met laboratory and method criteria with the following exceptions: the MB for Batch
20 VSS15871 contained GRO at 19.0 micrograms per liter (µg/L), between the PQL and method
21 detection limit (MDL). GRO results for sample 06GAM05GS19, 06GAM05GS21,
22 06GAM05GS22 (SGS sample 1064875-03, -04, -05), were detected at less than 5 times that
23 found in the MB. Results for these samples should be considered estimated and have been
24 flagged “B.”

25 GRO results for samples 06GAM05GS19, 06GAM05GS21, and 06GAM05GS22 (SGS
26 samples 1064875-03, -04, and -05) were between the MDL and PQL. Results for these
27 samples should be estimated.

1 **3.1.3 BTEX Analysis**

2 Surrogate recoveries for all BTEX samples were within QC limits. All extraction QC samples
3 met laboratory and DOD QSM criteria.

4 **3.1.4 DRO/RRO Analyses**

5 Surrogate recoveries for all DRO/RRO samples were within QC limits. All extraction QC
6 samples met laboratory and method criteria with the following exceptions: the MB for Batch
7 XXX17157 contained RRO at 0.200 milligrams per liter, between the PQL and MDL. RRO
8 results for sample 06GAM05GS17 (SGS sample 1064875-01), were detected at less than 5
9 times that found in the MB. Results for these samples should be considered estimated and
10 have been flagged “B.”

11 DRO results for samples 06GAM05GS17, 06GAM05GS19, and 06GAM05GS21 (SGS
12 samples 1064875-01, -03, and -04) contained detectable levels of DRO. Sample
13 06GAM05GS17 was above the MDL, but below the PQL and should be considered estimated.

14 RRO results for samples 06GAM05GS17, 06GAM05GS19, and 06GAM05GS21 (SGS
15 samples 1064875-01, -03, and -04) were above the MDL, but below the PQL. Results for
16 these samples should be considered estimated.

17 The DRO chromatograms for samples 06GAM05GS19 and 06GAM05GS21 were consistent
18 with a highly weathered middle distillate fuel. The DRO chromatogram for sample
19 06GAM05GS17 was not consistent with a middle distillate fuel.

20 **3.1.5 PAH Analysis**

21 Surrogate recoveries for all PAH samples were within QC limits. All extraction QC samples
22 met laboratory and DOD QSM criteria with the following exceptions: the MB contained
23 Naphthalene at 0.0423 µg/L, between the PQL and MDL. Results for associated samples
24 were non-detect; therefore, they are not affected.

25 **3.1.6 Metals Analysis**

26 All extraction QC samples met laboratory and DOD QSM criteria with the following
27 exceptions: the MB contained barium at 1.58 µg/L and lead at 0.391 µg/L, between the PQL

1 and MDL. Barium results for sample 06GAM05GS17, 06GAM05GS22, and
2 06GAM05GS23 (SGS sample 1064875-01, -05, and -06) and lead results for samples
3 06GAM05GS21, 06GSM05GS22, and 06GAM05GS24 (SGS sample 1064875-04, -05, -07)
4 were detected at less than 5 times that found in the MB. Results for these samples should be
5 considered estimated and have been flagged “B.”

6 Lead results for sample 06GAM05GS21, 06GAM05GS22, 06GAM05GS24 (SGS samples
7 1064875-04, -05, -07) were between the MDL and PQL. Nickel results for samples
8 06GAM05GS17, 06GAM05GS19, 06GAM05GS21, 06GAM05GS22, 06GAM05GS23,
9 06GAM05GS25 (SGS samples 1064875-01, -03, -04, -05, -06, -08) were between the MDL
10 and PQL. Results for these samples should be considered estimated.

11 **3.2 STL WORK ORDER 580-3377**

12 **3.2.1 Sample Receipt Conditions**

13 QA samples were received at STL in good condition with the exceptions noted below. The
14 sampler recalls placing custody seals on the cooler; however, it was received at the laboratory
15 without custody seals. It may be possible that the cooler was opened by Transportation Safety
16 Agency personnel and the custody seals were not replaced. The CoC agreed with the sample
17 labels, with the exception of the trip blank, number of jars, and preservatives; therefore,
18 sample custody is not in question.

19 The trip blank label from the laboratory that provided it was not replaced with a project-
20 specific label, and the trip blank sampling date and time of the CoC was incorrect. The trip
21 blank information was corrected in correspondence from the client. Samples were assigned
22 STL Work Order 580-3377. Samples were received at 4.9 °C. All samples were received in
23 proper containers and properly preserved for the analyses requested. Sample containers for
24 GRO/BTEX, DRO/RRO, and metals, were preserved to a pH of less than 2, and all samples
25 were extracted and analyzed within their holding times.

26 **3.2.2 GRO Analysis**

27 Surrogate recoveries for all GRO samples were within QC limits. All extraction QC samples
28 met laboratory and method criteria.

1 **3.2.3 BTEX Analysis**

2 Surrogate recoveries for all BTEX samples were within QC limits with the exception of the
3 surrogate trifluorotoluene, which had a high recovery of 122 percent for Sample
4 06GAM05GS20. Both samples, including the trip blank, contained detectable levels of the
5 compound toluene. This compound was also detected in the MB at less than 5 times the
6 concentration in the samples, and may be due to laboratory contamination. Presence of
7 toluene should be considered suspect. With the exception of the MB noted above, all
8 extraction QC samples met laboratory and DOD QSM criteria.

9 **3.2.4 DRO/RRO Analyses**

10 Surrogate recoveries for the DRO/RRO sample were within QC limits. All extraction QC
11 samples met laboratory and method criteria. The sample was extracted two days past holding
12 time. The DRO/RRO results should be considered estimated and potentially biased low. The
13 DRO chromatogram for Sample 06GAM05GS20 was consistent with a highly weathered
14 middle distillate fuel.

15 **3.2.5 PAH Analysis**

16 Surrogate recoveries for the PAH sample was within QC limits. All extraction QC samples
17 met laboratory and DOD QSM criteria with some exceptions. The LCS had high recoveries
18 for nine compounds and the LCSD had high recoveries for seven compounds. The project
19 sample was nondetect for all of these compounds with the exception of Naphthalene. Results
20 for Naphthalene should be considered estimated with a potential high bias. The sample was
21 extracted two days past holding time. PAH sample results should be considered estimated
22 and potentially biased low.

23 **3.2.6 Metals Analysis**

24 All extraction QC samples met laboratory and DOD QSM criteria, with the exception of the
25 MB and the sample duplicate. Barium, chromium, lead, nickel, and vanadium were detected
26 in the MB just above the PQL. The sample/sample duplicate results had relative percent
27 differences (RPDs) of greater than 20 percent for three of the seven compounds. Arsenic,

1 barium, cadmium, chromium, lead, nickel and vanadium results should be considered
2 estimated.

3 **3.3 FIELD QA/QC**

4 One field QA/QC sample set was submitted for GRO/BTEX, DRO/RRO, PAH, and metals
5 analyses. Three trip blanks were provided for GRO/BTEX analyses to SGS and one trip
6 blank was provided to STL for GRO/BTEX analyses.

7 **3.3.1 Field Sample Duplicates**

8 One field sample QA/QC set was collected and submitted to SGS for analyses. The QA/QC
9 set was within 50 percent RPD for all compounds; therefore, no compounds are in
10 disagreement, based upon USACE definition.

11 Analytical results for primary sample QA/QC are presented in Table 2. With the exceptions
12 noted above, there is no indication of poor homogeneity affecting the August 2006
13 groundwater sampling event sample results.

1

Table 2 Field Sample QA/QC Results

Sample Number		06GAM05GS19	06GAM05GS21	RPD	05GAM05GS20	RPD
Location		MW-30	MW-30		MW-30	
Laboratory Number		SGS 1064875-03	SGS 1064875-04		STL 580-3377-1	
Replicate of			06GAM05GS19		06GAM05GS19	
Parameter	Units					
GRO/BTEX						
GRO	µg/L	17.1 NJ, TB, B	14.4 NJ, TB, B	17%	ND (50)	NC
Benzene	µg/L	ND (0.400)	ND (0.400)	0%	ND (0.10)	0%
Toluene	µg/L	ND (1.00)	ND (1.00)	0%	0.010 NJ, TB, B	NC
Ethylbenzene	µg/L	ND (1.00)	ND (1.00)	0%	ND (0.10)	0%
Total Xylenes	µg/L	ND (3.00)	ND (3.00)	0%	ND (0.10)	0%
DRO/RRO						
DRO	mg/L	0.495	0.736	39%	0.71	36%
RRO	mg/L	0.113 NJ	0.110 NJ	3%	0.073 NJ	43%
Polynuclear Aromatic Hydrocarbons						
1-Methylnaphthalene	µg/L	ND (0.100)	ND (0.100)	0%	ND (0.10)	0%
2-Methylnaphthalene	µg/L	ND (0.0500)	ND (0.0500)	0%	ND (0.13)	0%
Acenaphthene	µg/L	ND (0.0500)	ND (0.0500)	0%	ND (0.0031)	0%
Acenaphthylene	µg/L	ND (0.0500)	ND (0.0500)	0%	ND (0.0041)	0%
Anthracene	µg/L	ND (0.0500)	ND (0.0500)	0%	ND (0.0082)	0%
Benzo(a)anthracene	µg/L	ND (0.0500)	ND (0.0500)	0%	ND (0.0092)	0%
Benzo(a)pyrene	µg/L	ND (0.0500)	ND (0.0500)	0%	ND (0.062)	0%
Benzo(b)fluoranthene	µg/L	ND (0.0500)	ND (0.0500)	0%	ND (0.032)	0%

2

1

Table 2 Field Sample QA/QC Results (continued)

Sample Number		06GAM05GS19	06GAM05GS21	RPD	05GAM05GS20	RPD
Location		MW-30	MW-30		MW-30	
Laboratory Number		SGS 1064875-03	SGS 1064875-04		STL 580-3377-1	
Replicate of			06GAM05GS19		06GAM05GS19	
Parameter	Units					
Polynuclear Aromatic Hydrocarbons						
Benzo(g,h,i)perylene	µg/L	ND (0.0500)	ND (0.0500)	0%	ND (0.018)	0%
Benzo(k)fluoranthene	µg/L	ND (0.0500)	ND (0.0500)	0%	--	NC
Chrysene	µg/L	ND (0.0500)	ND (0.0500)	0%	ND (0.0092)	0%
Dibenzo(a,h)anthracene	µg/L	ND (0.0500)	ND (0.0500)	0%	ND (0.012)	0%
Fluoranthene	µg/L	ND (0.0500)	ND (0.0500)	0%	ND (0.0092)	0%
Fluorene	µg/L	ND (0.0500)	ND (0.0500)	0%	ND (0.0082)	0%
Indeno(1,2,3-c,d)pyrene	µg/L	ND (0.0500)	ND (0.0500)	0%	ND (0.015)	0%
Naphthalene	µg/L	ND (0.100)	ND (0.100)	0%	0.0070 NJ	NC
Phenanthrene	µg/L	ND (0.100)	ND (0.100)	0%	ND (0.0031)	0%
Pyrene	µg/L	ND (0.0500)	ND (0.0500)	0%	ND (0.013)	0%
Total Metals						
Arsenic	µg/L	ND (10.0)	ND (10.0)	0%	0.93 NJ, J	NC
Barium	µg/L	ND (3.00)	ND (3.00)	0%	0.54 NJ, J	NC
Cadmium	µg/L	ND (2.00)	ND (2.00)	0%	ND (2.0) J	0%
Chromium	µg/L	ND (4.00)	ND (4.00)	0%	3.5 J	NC
Lead	µg/L	ND (1.00)	0.391 NJ, B	NC	0.12 NJ, J	NC
Nickel	µg/L	1.31 NJ	1.16 NJ	12%	1.5 NJ, J	14%
Vanadium	µg/L	ND (20.0)	ND (20.0)	0%	ND (2.0) J	0%

2

Notes:

- | | | | | | |
|------|---|--|-----|---|---|
| -- | = | not provided | MW | = | monitoring well |
| % | = | percent | NC | = | One result was non-detect and one was below the PQL. RPD was not calculated. |
| µg/L | = | micrograms per liter | ND | = | nondetect |
| B | = | Analyte found in method blank at concentration greater than 10-times the concentration in the sample. Results may be high or false positive. | NJ | = | Result was between the PQL and MDL |
| BTEX | = | Benzene, Toluene, Ethylbenzene, and total Xylenes | PQL | = | practical quantitation limit |
| DRO | = | diesel-range organics | RPD | = | relative percent difference |
| GRO | = | gasoline-range organics | RRO | = | residual-range organics |
| J | = | value estimated | STL | = | Severn Trent Laboratories |
| mg/L | = | milligrams per liter | SGS | = | SGS Environmental Services, Inc. |
| MDL | = | method detection limit | TB | = | Analyte found in sample less than 5 times the concentration in the trip blank. Results may be high or false positive. |

1 **3.3.2 Matrix Spike Duplicates**

2 Additional sample amounts for MS/MSD were not provided for this sampling event. Matrix
3 effects have been determined from the July 2006 sampling event.

4 Additional amounts of Sample 06GAM05GS11 from the July 2006 groundwater sampling
5 event were provided for MS/MSD. MS/MSD recoveries for DRO were not within method
6 requirements for LCS/LCSD of 75 percent to 125 percent; however, the project sample results
7 were between the PQL and MDL. If results of the project sample are discounted, recoveries
8 are within the 75 percent to 125 percent LCS/LCSD limits. DRO samples are not considered
9 affected by matrix effects and samples are not qualified.

10 MS/MSD RPDs were higher than laboratory criteria for 10 PAH compounds out of 18. PAH
11 results for those samples with detectable levels of PAHs should be considered estimated. No
12 PAH samples had detectable levels of target analytes; therefore, results are not affected.

13 **3.3.3 Trip Blanks**

14 Three trip blanks were provided to SGS and one to STL, to verify that no samples were
15 contaminated with target analytes during the shipping and handling process. The trip blanks
16 submitted to SGS were shipped in three of the four sample coolers. The samples in cooler
17 No. 3 (06GAM05GS19 and 06GAM05GS21) did not have a trip blank associated with them.
18 The results for trip blank 06GAM05GSTB4-2 contained GRO above the PQL. Results for the
19 samples associated with this trip blank have been flagged “TB.” GRO results for the samples
20 in cooler No. 3 that are above the MDL have also been flagged “TB.” The results for the trip
21 blanks collected for the August 2006 groundwater sampling are presented in Table 3.

1

Table 3 Trip Blank Results

Sample Type		Trip Blank	Trip Blank	Trip Blank	Trip Blank
Collection Date					8/16/06
Sample Number		05GAM05GSTB4-1	05GAM05GSTB4-2	05GAM05GSTB4-3	05GAM05GSTB5
Laboratory Number		SGS1064875-10	SGS1064875-11	SGS1064875-12	STL 580-3377-2
Units					
GRO	µg/L	ND (100)	111	ND (100)	ND (0.050)
Benzene	µg/L	ND (0.400)	ND (0.400)	ND (0.400)	ND (1.0)
Toluene	µg/L	ND (1.00)	ND (1.00)	ND (1.00)	0.089 NJ, B
Ethylbenzene	µg/L	ND (1.00)	ND (1.00)	ND (1.00)	ND (1.0)
Total Xylenes	µg/L	ND (3.00)	ND (3.00)	ND (3.00)	ND (1.0)

2

Notes:

µg/L = micrograms per liter

B = Analyte found in sample at less than 5 times the concentration in the method blank. Results may be high or false positive.

GRO = gasoline-range organics

MDL = method detection limit

ND = nondetect

NJ = results between PQL and MDL, value estimated

PQL = practical quantitation limit

SGS = SGS Environmental Services, Inc.

STL = Severn Trent Laboratories, Inc.

1 **3.3.4 Qualified and Rejected Data**

2 As detailed in the body of this Report, results for some samples should be considered
 3 estimated. Qualified data are presented in Table 4. No data are considered rejected.

4 **Table 4 Qualified Data**

Field Sample No.	Laboratory Sample No.	Compounds Affected	Reason	Flag	Bias
06GAM05GS19 06GAM05GS21 06GAM05GS22	1064875-03 1064875-04 1064875-05	GRO	Results between the PQL and MDL	NJ	Estimated
06GAM05GS17	1064875-01	DRO	Results between the PQL and MDL	NJ	Estimated
06GAM05GS17 06GAM05GS19 06GAM05GS21	1064875-01 1064875-03 1064875-04	RRO	Results between the PQL and MDL	NJ	Estimated
06GAM05GS21 06GAM05GS22 06GAM05GS24	1064875-04 1064875-05 1064875-07	Lead	Results between the PQL and MDL	NJ	Estimated
06GAM05GS17 06GAM05GS19 06GAM05GS21 06GAM05GS22 06GAM05GS23 06GAM05GS25	1064875-01 1064875-03 1064875-04 1064875-05 1064875-06 1064875-08	Nickel	Results between the PQL and MDL	NJ	Estimated
06GAM05GS20 06GAM05GSTB5	STL 580-3377-1 STL 580-3377-2	Toluene	Results between the PQL and MDL	NJ	Estimated
06GAM05GS20	STL 580-3377-1	Naphthalene	Missed hold time by two days	JL	Estimated
06GAM05GS20	STL 580-3377-1	DRO RRO	Results between the PQL and MDL	NJ	Estimated

1

Table 4 Qualified Data (continued)

Field Sample No.	Laboratory Sample No.	Compounds Affected	Reason	Flag	Bias
06GAM05GS22	1064875-05	GRO	Analytes were found in the associated trip blank at greater than 5 times the concentration in the sample.	TB	Results may be biased high or false positive
06GAM05GS19 06GAM05GS21	1064875-03 1064875-04	GRO	No trip blank was provided for this cooler, however results for a trip blank in another cooler contained GRO at greater than 5 times the amount in the sample	TB	Results may be biased high or false positive
06GAM05GS20 06GAM05GSTB5	STL 580-3377-1 STL 580-3377-2	Toluene	Analytes were found in the associated trip blank at greater than 5 times the concentration in the sample.	TB	Results may be biased high or false positive
06GAM05GS19 06GAM05GS21 06GAM05GS22	1064875-03 1064875-04 1064875-05	GRO	Analytes were found in the MB at greater than 5 times the concentration in the sample.	B	Results may be biased high or false positive
06GAM05GS17	1064875-01	RRO	Analytes were found in the MB at greater than 5 times the concentration in the sample.	B	Results may be biased high or false positive

1

Table 4 Qualified Data (continued)

Field Sample No.	Laboratory Sample No.	Compounds Affected	Reason	Flag	Bias
06GAM05GS17 06GAM05GS22 06GAM05GS23	1064875-01 1064875-05 1064875-06	Barium	Analytes were found in the MB at greater than 5 times the concentration in the sample.	B	Results may be biased high or false positive
06GAM05GS21 06GSM05GS22 06GAM05GS24	1064875-04 1064875-05 1064875-07	Lead	Analytes were found in the MB at greater than 5 times the concentration in the sample.	B	Results may be biased high or false positive
06GAM05GS20 06GAM05GSTB5	STL 580-3377-1 STL 580-3377-1	Toluene	Analytes were found in the MB at greater than 5 times the concentration in the sample.	B	Results may be biased high or false positive
06GAM05GS20	STL 580-3377-1	Naphthalene	LCS/LCSD recoveries failed QC criteria.	JH	Estimated, high bias
06GAM05GS20	STL 580-3377-1	Arsenic Barium Cadmium Chromium Lead Nickel Vanadium	Sample/sample duplicate results had RPDs outside of QC criteria.	J	Estimated

2

Notes:

- | | | | | | |
|------|---|--|-----|---|--|
| B | = | Analyte found in sample less than 5 times the concentration in the method blank. Results may be biased high or false positive. | MDL | = | method detection limit |
| DRO | = | diesel-range organic | NJ | = | Results between PQL and MDL, associated value is an estimated quantity. |
| GRO | = | gasoline-range organic | No. | = | number |
| J | = | associated value is an estimated quantity | PQL | = | practical quantitation limit |
| JH | = | associated value is an estimated quantity, with a potential high bias | QC | = | quality control |
| LCS | = | laboratory control sample (blank spike) | RPD | = | relative percent difference |
| LCSD | = | laboratory control sample duplicate (blank spike duplicate) | RRO | = | residual-range organics |
| MB | = | method blank | STL | = | Severn Trent Laboratories, Inc. |
| | | | TB | = | Analyte found in the sample less than the concentration in the trip blank. Results may be biased high or false positive. |

1 **4.0 CONCLUSIONS**

2 This Report has been completed for samples collected from August 2006 for the Gambell
3 FUDS Remedial Action. All laboratory results generated as part of the Gambell groundwater
4 sampling have undergone data verification and review.

5 In general, the data verification and review found most data usable as delivered by the
6 analytical laboratories. Some data required qualification due to results of field QA/QC,
7 laboratory QA/QC, or failure to adhere to method criteria, and have been flagged
8 appropriately. Data are presented with appropriate qualifiers within the body of the August
9 2006 Groundwater Sampling Report.

1

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APPENDIX D

Chemical Data Quality Assurance Report

MEMORANDUM THROUGH CEPOA-EN-ES-M
CEPOA-EN-ES

FOR RECORD

SUBJECT: Chemical Data Quality Assessment Report, August 2006 Groundwater Sampling Report 05-013, Gambell, Alaska.

1. References:

- 1.1 Bristol Construction Services, LLC, August 2006 Groundwater Sampling Report, Project # 05-013, December 2006.
- 1.2 Bristol Construction Services, LLC, Final Sampling and Analysis Plan, Gambell FUDS Remedial Action, Gambell, Alaska, February 2006.
- 1.3 SGS workorder 1064875, STL Seattle workorder 580-580-3377.

2. Summary: The chemical data review summarizes data quality and usability of groundwater samples collected from the Gambell FUDS Removal Action site in Gambell, Alaska in August 2006.

3. Background: The Gambell area was used by the U.S. Army from approximately 1948 until the late 1950s. Various facilities around the City of Gambell were constructed to provide housing, communications, and other functions. Due to previous military actions, there is concern that the new village water supply could become contaminated by fuels or heavy metals. Gambell's water is supplied by a single infiltration gallery, located approximately 2,000 feet east of the town site. Seven groundwater monitoring wells were installed in the area. Bristol Construction Services, LLC collected samples from these seven wells on August 16 and 17, 2006. Eight groundwater samples were collected by Bristol Construction Services, LLC employees and submitted to SGS in August and September 2006, including one QC sample. One groundwater sample (a QA sample) was submitted to STL Seattle. Samples were analyzed for gasoline (AK101), BTEX (SW8260B), diesel (AK102) and residual range organics (AK103), Polyaromatic hydrocarbons (SW8270C SIM), and some heavy metals (SW6020 – arsenic, barium, cadmium, chromium, lead, nickel, and vanadium). Two trip blanks were submitted for BTEX and gasoline range organics (GRO). Sample containers for GRO/BTEX, DRO/RRO, and metals were preserved at a pH of less than two.

4. Data Quality Objectives (DQO's): Data quality is required to meet the requirements of the project QAPP (included in ref.1.2), and must be adequate for comparison to the cleanup levels established in State of Alaska 18 AAC 75.

5. Chemical Data Quality Assessment: Most qualifications were made due to surrogate recovery problems, method and trip blank contamination or concentrations between the MDL and PQL. No data were rejected, and all data is usable as flagged.

- a) AK101 (GRO) – Several data quality deficiencies were found, resulting in some qualified data. No data were rejected. Most qualifications were made due to laboratory blank contamination and trace concentrations found. GRO results for samples –GS19, -GS21 and –GS22 were flagged “B” due to method blank contamination. These samples are biased high; however, since these results are so far below the ADEC cleanup limit, data quality is not affected. All data is usable as flagged. See CDQR (ref 1.1) for details.

- b) AK102/103 (DRO/RRO) – Several data quality deficiencies were found, resulting in some qualified data. No data were rejected. Most qualifications were made due to concentrations between the MDL and the PQL, and method blank contamination. See CDQR for details. All data is usable as flagged.
- c) SW8260B (BTEX) – Several data quality deficiencies were found, resulting in some qualified data. All qualifications were made due to poor surrogate recoveries or blank contamination, and are biased high. Sample –GS20 had a high surrogate recovery of 122% for trifluorotoluene. This sample including its associated trip blank contained detectable levels of toluene. Because the amounts found were far below the action level), this data is considered to be useable as flagged. See CDQR for details.
- d) SW8270C SIM (PAHs) – Several data quality deficiencies were found, resulting in some qualified data. Data were estimated due to low LCS recovery (nine compounds) or LCSD recovery (seven compounds). All project samples were non-detect for these compounds with the exception of naphthalene, which should be considered estimated with a potential high bias. Because the concentrations found are all well below the project action limits, , all data is considered usable. See CDQR for details.
- e) SW6020 (Metals) – Minor data quality deficiencies were found resulting in some qualified data. No data were rejected. Most qualifications are due to concentrations between the PQL and MDL, poor precision, and Method blank contamination. See CDQR for details. All data is usable as flagged.

6. According to the criteria set forth in EM 200-1-6 Chemical Quality Assurance for HTRW Projects (Table 4-1), for comparing field QC/QA sample data, all of the data are in agreement.

7. Statement of Contract Compliance: All PQLs specified in the Sampling and Analysis Plan (ref. 1.2) tables 5-5 were met. All data are usable for project purposes.

8. Please contact Jake Sweet, Chemist, EN-ES-M if you have any questions or comments: 907-753-2694 or Jacob.M.Sweet@poa02.usace.army.mil

Jacob Sweet
CHEMIST



Reviewed: Mike Utley
CHEMIST

CF: CEPOA-PM-C (Cossaboom)

APPENDIX E

ADEC Data Review Checklists

**SEVERN TRENT LABORATORIES (STL)
LABORATORY DATA REVIEW CHECKLIST**

Report Name: August 2006 Groundwater Sampling Monitoring Report
Address/Location: Gambell FUDS Remedial Action, Gambell, Alaska
USACE Contract No.: W911KB-05-P-0103
Bristol Project No.: 56016

1.0 LABORATORY

- a. Did an ADEC CS-approved laboratory receive and perform all of the submitted sample analyses? <http://www.dec.state.ak.us/eh/lab/USTLabs.aspx>

Yes No NA

Comments: Work was performed under STL work order 580-3377.

- b. If the samples were transferred to another “network” laboratory or subcontracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS-approved? <http://www.dec.state.ak.us/eh/lab/USTLabs.aspx>

Yes No NA

Comments:

2.0 CHAIN OF CUSTODY (COC)

- a. COC information completed, signed, and dated (including released/received by)?

Yes No NA

Comments:

- b. Correct analyses requested?

Yes No NA

Comments:

3.0 LABORATORY SAMPLE RECEIPT DOCUMENTATION

- a. Sample/cooler temperature documented and within range at receipt ($4^{\circ} \pm 2^{\circ}\text{C}$)?

Yes No NA

Comments: Samples were received at STL in one cooler at 4.9°C.

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No NA

Comments:

- c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No NA

Comments: Sample condition was noted. Cooler had no custody seals upon receipt at the laboratory although sampler remembers putting custody seals on the cooler. It is possible that custody seals were removed by TSA during transport. There were no other discrepancies, therefore sample custody is not in question.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptance range, insufficient or missing samples, etc.?

Yes No NA

Comments: See above.

e. **Data quality or usability affected?** No.

4.0 CASE NARRATIVE

a. Present and understandable?

Yes No NA

Comments:

b. Discrepancies, errors or QC failures identified by the lab?

Yes No NA

Comments: Discrepancies were noted under sample notes for each sample.

c. Were all corrective actions documented?

Yes No NA

Comments: Corrective actions were not taken.

d. **What is the effect on data quality/usability according to the case narrative?** NA

5.0 SAMPLES RESULTS

a. Correct analyses performed/reported as requested on COC?

Yes No NA

Comments:

b. All applicable holding times met?

Yes No NA

Comments: The sample for PAH was extracted two days past holding time.

c. All soils reported on a dry weight basis?

Yes No NA

Comments: No soil samples were analyzed.

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No NA

Comments:

e. **Data quality or usability affected? Explain.** Analytical results for PAH should be considered estimated with a potential low bias. These results have been flagged “JL”.

6.0 QC SAMPLES

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No NA

Comments:

ii. All method blank results less than PQL?

Yes No NA

Comments: The method blank for BTEX contained Toluene between the PQL and MDL and the method blank for metals contained Barium, Chromium, Lead, Nickel, and Vanadium above the PQL. Sample results that were less than 5 times the method blank result were flagged as “B” as part of independent data verification.

iii. If above PQL, what samples are affected?

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No NA

Comments: The associated samples were flagged as part of independent data verification.

v. **Data quality or usability affected? Explain.** All qualified data was well below action limits. Data usability not significantly affected. A number of parameters flagged were below the PQL, which has been noted on the ADEC checklist.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples?

Yes No NA

Comments: A LCS/LCSD or LCS and MS/MSD were performed on all samples analyzed for organics.

ii. Metals/Inorganics – One LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No NA

Comments: A LCS and MS/MSD were performed on all samples analyzed for metals.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? Or project specified DQOs? (AK Petroleum methods 75-125%R; all other analyses see the laboratory QC pages)

Yes No NA

Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? Or project specified DQOs? (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No NA

Comments:

v. If %R or RPD outside of acceptable limits, what samples are affected? NA

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No NA

Comments:

Data quality or usability affected? Explain. NA

c. Surrogates – Organics only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No NA

Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? Or project specified DQOs? (AK Petroleum methods 50-150%R; all other analyses see the laboratory report pages)

Yes No NA

Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

Yes No NA

Comments: Failed surrogate recovery was identified with “X” next to the sample name under results and the QC limits are provided.

iv. **Data quality or usability affected?** BTEX surrogate recovery for 06GAM05GS20 had a high recovery. The three other surrogates met laboratory criteria, therefore results are not affected.

d. Trip Blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): water and soil

i. One trip blank reported per matrix, analysis and cooler?

Yes No NA

Comments: Four trip blanks were provided, however no trip blank was provided for one of the coolers that contained volatiles samples.

ii. All results less than PQL?

Yes No NA

Comments: Results for all trip blank were below the PQL, but some contained compounds above the MDL. Associated samples with results less than 5 times the amount in the trip blank were flagged "TB."

iii. If above PQL, what samples are affected? NA

iv. **Data quality or usability affected?** Sample results associated with a trip blank that contained detectable levels of analyte, or not associated with a trip blank have been qualified as TB, may be biased high, and should be questioned.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes No NA

Comments: A single sample was provide in triplicate for QA/QC. There are three sampling events and field duplicate samples were collected on the 1st and 3rd rounds. This Data Review Checklist is being performed for the 3rd round.

ii. Submitted blind to lab?

Yes No NA

Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs?
(Recommended: 30% water, 50% soil)

Yes No NA

Comments: The sample/QC sample RPD for DRO was 39% and the sample/QA sample RPD for DRO was 36% and RRO was 43%. All other RPDs were below 30%.

iv. **Data quality or usability affected?** All results were well below 18AAC75, Table C, Groundwater Cleanup Levels project action limits RPDs were less than 50% for all compounds, therefore, according to USACE EM 200-1-6, results are not affected.

f. Decontamination or Equipment Blank (if applicable)

Yes No NA

Comments:

i. All results less than PQL?

Yes No NA

Comments:

- ii. If above PQL, what samples are affected? NA
- iii. Data quality or usability affected? NA

**7.0 OTHER DATA FLAGS/QUALIFIERS
(ACOE, AFCEE, LAB SPECIFIC, ETC.)**

a. Defined and appropriate

Yes No NA

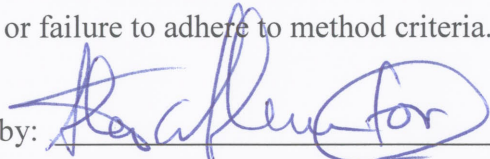
Comments: Independent data verification was performed on these samples. Data qualifiers are listed in table in the Summary section.

Summary:

A data review has been performed for samples collected in July 2006 as part of the Gambell Formerly Used Defense Site Remedial Action. All laboratory results generated as part of this sampling event have undergone a data review. Qualified data are presented in Table 4 of Appendix C.

QA/QC samples collected during sampling activities consisted of additional sample for QA sample duplicate and QC sample duplicate. No additional sample was collected for MS/MSD. Laboratory prepared method blanks, laboratory control samples (LCSs), laboratory sample duplicates (LCSDs), and a trip blank were also part of the QA/QC program. The trip blank was analyzed for gasoline-range organics and Benzene, Toluene, Ethylbenzene, and total Xylenes. Target analytes detected in the trip blank were qualified for those project samples where results were less than 5 times the concentration in the trip blank.

In general, the data verification/data validation found most data usable as delivered by the analytical laboratories. Some data required qualification due to results of field QA/QC, laboratory QA/QC, or failure to adhere to method criteria.

Review Performed by:  Michael Turner Date: 7/18/07

Checked by: _____ Date: _____

**SGS ENVIRONMENTAL SERVICES, INC.
LABORATORY DATA REVIEW CHECKLIST**

Report Name: August 2006 Groundwater Sampling Monitoring Report
Address/Location: Gambell FUDS Remedial Action, Gambell, Alaska
USACE Contract No.: W911KB-05-P-0103
Bristol Project No.: 56016

1.0 LABORATORY

- a. Did an ADEC CS-approved laboratory receive and perform all of the submitted sample analyses? <http://www.dec.state.ak.us/eh/lab/USTLabs.aspx>

Yes No NA

Comments: Work was performed under SGS work orders 1064875.

- b. If the samples were transferred to another “network” laboratory or subcontracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS-approved? <http://www.dec.state.ak.us/eh/lab/USTLabs.aspx>

Yes No NA

Comments:

2.0 CHAIN OF CUSTODY (COC)

- a. COC information completed, signed, and dated (including released/received by)?

Yes No NA

Comments:

- b. Correct analyses requested?

Yes No NA

Comments:

3.0 LABORATORY SAMPLE RECEIPT DOCUMENTATION

- a. Sample/cooler temperature documented and within range at receipt ($4^{\circ} \pm 2^{\circ}\text{C}$)?

Yes No NA

Comments: Samples were received at SGS in 4 coolers at 1.3°C, 1.8°C, -0.5°C, and 1.9°C. No samples were noted as being received with ice or frozen, therefore results are not affected.

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No NA

Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No NA

Comments: Sample condition was noted.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptance range, insufficient or missing samples, etc.?

Yes No NA

Comments: See above.

e. **Data quality or usability affected?** No.

4.0 CASE NARRATIVE

a. Present and understandable?

Yes No NA

Comments:

b. Discrepancies, errors or QC failures identified by the lab?

Yes No NA

Comments:

c. Were all corrective actions documented?

Yes No NA

Comments: Corrective actions were not taken.

d. **What is the effect on data quality/usability according to the case narrative?** NA

5.0 SAMPLES RESULTS

a. Correct analyses performed/reported as requested on COC?

Yes No NA

Comments:

b. All applicable holding times met?

Yes No NA

Comments:

c. All soils reported on a dry weight basis?

Yes No NA

Comments: No soil samples were analyzed.

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

Yes No NA

Comments:

e. **Data quality or usability affected? Explain.** NA

6.0 QC SAMPLES

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No NA

Comments:

ii. All method blank results less than PQL?

Yes No NA

Comments:

The method blanks contained GRO, RRO, Naphthalene, Barium, and Lead with results between the PQL and MDL. Sample results that were less than 5 times the method blank result were flagged as "B" as part of independent data verification. Sample results fro GRO, Barium, and Lead were flagged.

iii. If above PQL, what samples are affected? NA

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No NA

Comments: The associated samples were flagged as part of independent data verification.

v. **Data quality or usability affected? Explain.** Sample results were less than 5 times the method blank result were flagged as "B" as part of independent data verification. All flagged data, with the exception of Barium, were below the PQL. All qualified data was well below action limits. Data usability not significantly affected.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples?

Yes No NA

Comments: A LCS/LCSD or LCS and MS/MSD were performed on all samples analyzed for organics.

ii. Metals/Inorganics – One LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No NA

Comments: A LCS and MS/MSD were performed on all samples analyzed for metals.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? Or project specified DQOs? (AK Petroleum methods 75-125%R; all other analyses see the laboratory QC pages)

Yes No NA

Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? Or project specified DQOs? (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No NA

Comments:

v. If %R or RPD outside of acceptable limits, what samples are affected? NA

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No NA

Comments: NA

Data quality or usability affected? Explain. NA

c. Surrogates – Organics only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No NA

Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? Or project specified DQOs? (AK Petroleum methods 50-150%R; all other analyses see the laboratory report pages)

Yes No NA

Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

Yes No NA

Comments: Failed surrogate recovery was identified with “X” next to the sample name under results and the QC limits are provided.

iv. **Data quality or usability affected? NA**

d. Trip Blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): water and soil

i. One trip blank reported per matrix, analysis and cooler?

Yes No NA

Comments: Three trip blanks were provided, however no trip blank was provided for one of the coolers that contained volatiles samples.

ii. All results less than PQL?

Yes No NA

Comments: Results for all trip blank were below the PQL, but some contained compounds above the MDL. Associated samples with results less than 5 times the amount in the trip blank were flagged "TB."

iii. If above PQL, what samples are affected? NA

iv. **Data quality or usability affected?** Sample results associated with a trip blank that contained detectable levels of analyte, or not associated with a trip blank have been qualified as TB, may be biased high, and should be questioned.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes No NA

Comments: A single sample was provided in triplicate for QA/QC. There are three sampling events and field duplicate samples were collected on the 1st and 3rd rounds. This Data Review Checklist is being performed for the 3rd round.

ii. Submitted blind to lab?

Yes No NA

Comments:

iii. Precision – All relative percent differences (RPD) less than specified DQOs? (Recommended: 30% water, 50% soil)

$$\text{RPD}(\%) = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

Yes No NA

Comments: The sample/QC sample RPD for DRO was 39% and the sample/QA sample RPD for DRO was 36% and RRO was 43%. All other RPDs were below 30%.

iv. **Data quality or usability affected?** NA. RPDs were less than 50% for all compounds, therefore, according to USACE EM 200-1-6, results are not affected.

f. Decontamination or Equipment Blank (if applicable)

Yes No NA

Comments:

i. All results less than PQL?

Yes No NA

Comments:

ii. If above PQL, what samples are affected? NA

iii. Data quality or usability affected? NA

7.0 OTHER DATA FLAGS/QUALIFIERS (ACOE, AFCEE, LAB SPECIFIC, ETC.)

a. Defined and appropriate

Yes No NA

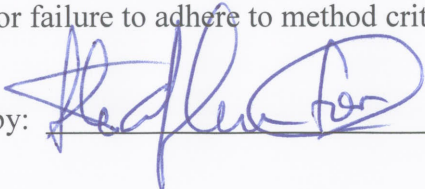
Comments: Independent data verification was performed on these samples. Data qualifiers are listed in table in the Summary section.

Summary:

A data review has been performed for samples collected in July 2006 as part of the Gambell Formerly Used Defense Site Remedial Action. All laboratory results generated as part of this sampling event have undergone a data review. Qualified data are presented in Table 4 of Appendix C.

QA/QC samples collected during sampling activities consisted of additional sample for QA sample duplicate and QC sample duplicate. No additional sample was collected for MS/MSD. Laboratory prepared method blanks, laboratory control samples (LCSs), laboratory sample duplicates (LCSDs), and a trip blank were also part of the QA/QC program. The trip blank was analyzed for gasoline-range organics and Benzene, Toluene, Ethylbenzene, and total Xylenes. Target analytes detected in the trip blank were qualified for those project samples where results were less than 5 times the concentration in the trip blank.

In general, the data verification/data validation found most data usable as delivered by the analytical laboratories. Some data required qualification due to results of field QA/QC, laboratory QA/QC, or failure to adhere to method criteria.

Review Performed by:  Michelle Turner Date: 7/19/07
Checked by: _____ Date: _____

APPENDIX F

USACE and Stakeholders Comments and Contractor's Responses to Comments

PROJECT: Gambell	DOCUMENT: August 2006 Groundwater Monitoring Report , December 2006
REVIEW COMMENTS	LOCATION: Gambell FUDS Site, St. Lawrence Island, Alaska

DATE: 2/7/07	REVIEWER: Carey Cossaboom	PHONE: (907) 753-2689
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Item No.	Location (page, par., sen.)	COMMENTS	Review A – Comment Accepted W – Comment Withdrawn N - Noted	Bristol Response
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1.	General	The final report will include the proper PDF electronic copy. I will supply you with the file naming convention before you create the final CD.	N	Will use naming convention given to us.
2.	Pg. 1, line. 4	Remedial Investigation sounds better than Removal Action for this report.	A	Changed to “Remedial Investigation”
3.	Pg. 5, Line 14	“ ... were <u>taken</u> for temperature,	A	Changed to “taken”
4.	Pg. 5, Line 16	“Turbidity was <u>measured</u> using	A	Changed to “measured”
5.	Pg. 12, Line 12	If not a middle distillate, what might it look like?	A	The following was added to further define line 12. “In the opinion of the Project Chemist, the PWS chromatographic pattern cannot be definitively identified. It is not consistent with the pattern of a middle distillate (for example, does not have a single large peak of a gaussian-type curve that is commonly seen in chromatograms of middle distillate fuels such as DF2).”
6.	Pg. 12, Line 16	If not a middle distillate, what might it look like?	A	The following was added to further define line 16. “In the opinion of the Project Chemist, the PWS chromatographic pattern cannot be definitively identified. It is not consistent with the pattern of a middle distillate (for example, does not have a single large peak of a gaussian-type curve that is commonly seen in chromatograms of middle distillate fuels such as DF2).”

PROJECT: Gambell	DOCUMENT: August 2006 Groundwater Monitoring Report , December 2006
REVIEW COMMENTS	LOCATION: Gambell FUDS Site, St. Lawrence Island, Alaska

DATE: 2/7/07	REVIEWER: Carey Cossaboom	PHONE: (907) 753-2689
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Item No.	Location (page, par., sen.)	COMMENTS	Review A – Comment Accepted W – Comment Withdrawn N - Noted	Bristol Response
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7.	Pg. 16, Line 10	“Metels were <u>variously</u> detected in <u>each of</u> the monitoring ...”	A	Changed to “variously” and “each of”
8.	Pg. 16, Line 11	“ ...were detected <u>at very low levels</u> from these monitoring ...”	A	Changed to “at very low levels from these wells.”
9.	Pg. 17, Line 14	“ <u>Some</u> metals were detected ...”	A	Added “Some”
10.				
11.				
12.				
13.				

REVIEW

PROJECT: Gambell DOCUMENT: Gambell FUDS Remedial Action, August 2006 Groundwater Sampling Report, REV0, December 2006

COMMENTS

LOCATION: St. Lawrence Island, Alaska

REVIEWER: Lisa Geist, US Army Corps of Engineers, Environmental Engineering					PHONE: 907-753-5742	DATE: February 9, 2007
Item/Code.	Page/Para	COMMENTS	REVIEW CONFERENCE	Bristol Construction Services, LLC RESPONSE		USAED RESPONSE

REPORT						
1.	Page 1, Line 4	Change Removal Action to Remedial Action		Changed to "Remedial Investigation" per Carey Cossaboom comments		
2.	Page 1, Line 6	Change scheduled to "planned"		Changed to "planned"		
3.	Page 1, Line 19	Text indicates six sections, only 5 are described?		Changed to "five"		
4.	Page 5, Line 16	Replace 'collected' with 'measured'.		Changed to "measured"		
5.	Page 7, Line 24	'steeping'? Clarify this word.		The bullet point has been clarified to say: "The effects of pumping the village well can be seen on the groundwater surface elevation data. Pumping the village well results in the groundwater surface gradient becoming steeper upgradient (southwest) of the village well; and"		
6.	Page 10, Line 16	The explanation does not make sense to me. What does water volume have to do with oxygen saturation?		Line 16 has been replaced with the following description to clarify the relationship between water volume and oxygen saturation. "Normally, a well is purged until at least 3 well volumes is removed (and field measurements equalize) before a sample is collected to make sure that the water being tested is representative of the water in the aquifer surrounding the well, not the water that had been sitting in the well. The water sitting in the well has been exposed to different conditions, for example, it is exposed directly to the atmosphere (via the open well casing). This can affect field measurements (such as DO and redox) as well as analytical measurements (for example water that may have DRO and be exposed to air – and therefore have		

REVIEW

PROJECT: Gambell DOCUMENT: Gambell FUDS Remedial Action, August 2006 Groundwater Sampling Report, REV0, December 2006

COMMENTS

LOCATION: St. Lawrence Island, Alaska

REVIEWER: Lisa Geist, US Army Corps of Engineers, Environmental Engineering					PHONE: 907-753-5742		DATE: February 9, 2007	
Item/Code.	Page/Para	COMMENTS	REVIEW CONFERENCE	Bristol Construction Services, LLC RESPONSE		USAED RESPONSE		

				<p>a higher DO than otherwise found in water in the aquifer – may be biodegraded and therefore have lower levels of DRO than is found in the surrounding aquifer.</p> <p>Because MW-31 could not be purged adequately, the oxygen measurements from it didn't reflect the water in the aquifer as much as it reflected water sitting in the well (which had been exposed to air and was probably fully oxygenated because of that). Because MW-31 did not recharge quickly enough to allow 3 well volumes to be purged (or to allow the field parameters to equalize) before water samples were collected, the DO levels measured in MW-31 must be considered questionable.”</p>	
7.	Page 12, Lines 15-16	Do you mean RRO? Not consistent with a heavy fuel oil?		<p>Yes. The sentence has been corrected to say: “All RRO results were between the PQL and MDL; therefore, amounts of RRO cannot be accurately quantified. The RRO chromatogram for PWS was not consistent with a heavy fuel oil.”</p>	

**REVIEW
COMMENTS**

**PROJECT: Gambell FUDS GW Monitoring
DOCUMENT: August 2006 Groundwater Sampling Report**

U.S. ARMY CORPS OF ENGINEERS CEPOA-EN-ES-M		DATE: 12 Feb 2007 REVIEWER: Mike Utley PHONE: 907-753-2691	Action taken on comment by:		
Item No.	Drawing Sht. No., Spec. Para.	COMMENTS	REVIEW CONFERENCE A - comment accepted W - comment withdrawn (if neither, explain)	CONTRACTOR RESPONSE	USAED RESPONSE ACCEPTANCE (A-AGREE) (D-DISAGREE)

1	Table 2	“Boring” header would be better defined as “Initial Well Depth”	A	Changed “boring” to Initial Well Depth”	
2	Table 4	Acenaphthylene, benzo(a)pyrene, and phenanthrene cleanup levels are not correct; please rectify (see ADEC Tech Memo 01-007; also, should benzo(b)perylene be benzo(g,h,i)perylene? Benzo(b)perylene is not reported in the analytical data (EDDs).		Comment to be addressed in Final Draft	
3	Appendix A	In the future, please record the volume purged and observations during purging – these are especially important given the lack of information associated with the PWS well. Pump rate is not discernable for MW14; please rectify. Most forms are not complete – purge volumes, observations, discharge method not recorded. Sample numbers, dates/times are not recorded – though a form for recording this information exists (see MW30).		Comment to be addressed in Final Draft	
4	Appendix C	Page 5, line 15 – batches are identified incorrectly; line 15-16: suggest dropping phrase before semicolon, and just indicate that the MS/MSD was not performed on a project sample.	A	Changed according to comment	
5		Page 11, line 3 – GS23 is ND, and should not be qualified due to method blank contamination. Line 24 – PAH samples are not preserved with acid – please revise text.		Remaining comments to be addressed in Final Draft	
6	Section 3.2.6	Please specify which metals and which samples are impacted by the duplicate deviation.			
7		Page 12, line 27 – I assume both laboratories rec’d a trip blank? Please revise accordingly.			

**REVIEW
COMMENTS**

**PROJECT: Gambell FUDS GW Monitoring
DOCUMENT: August 2006 Groundwater Sampling Report**

U.S. ARMY CORPS OF ENGINEERS CEPOA-EN-ES-M		DATE: 12 Feb 2007 REVIEWER: Mike Utley PHONE: 907-753-2691	Action taken on comment by:		
Item No.	Drawing Sht. No., Spec. Para.	COMMENTS	REVIEW CONFERENCE A - comment accepted W - comment withdrawn (if neither, explain)	CONTRACTOR RESPONSE	USAED RESPONSE ACCEPTANCE (A-AGREE) (D-DISAGREE)

8	Section 3.2.4 and 3.2.5	Methods AK102/103 and 8270SIM missed hold time by 2 days. Please so indicate in text and related tables.			
9		Page 13, line 2 – STI should be STL.			
10	Appendix E	Please use forms supplied by ADEC (preferred). Please note that one checklist must be completed per SDG.			
11		Question 5.b – see comment 8 above and change response			
12		6.a.v – Impact of deviations to data usability should be discussed (agree that data is usable, but must document why).			
13		6.e.iv – Please delete “NA”; please also note that all results were well below project action limits, and that, in conjunction with the fact that the limits were within the limits set by EM 200-1-6, the usability of these data are not significantly impacted.			

PROJECT: Gambell	DOCUMENT: August 2006 Groundwater Monitoring Report , Rev. 1, March 2007
REVIEW COMMENTS	LOCATION: Gambell FUDS Site, St. Lawrence Island, Alaska

DATE: 3/9/07	REVIEWER: Carey Cossaboom	PHONE: (907) 753-2689
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Item No.	Location (page, par., sen.)	COMMENTS	Review A – Comment Accepted W – Comment Withdrawn N - Noted	Bristol Response
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1.	Pg. 18, Line 1	GRO and BTEX were collected from MW-31.	A	Added the following text:” Because of low well recovery volumes, only GRO and BTEX samples were collected from MW-31. Neither GRO or BTEX was present at a concentration above the MDL.”
2.				
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11.				
12.				
13.				

April 2, 2007

Gambell FUDS Remedial Investigation
Gambell, Alaska
August 2006 Groundwater Sampling Report
Revision 1
March 2007

Page 10, Line 13-from range to ranged. Minor edit. *Accepted. The text was changed,*

Lines 22 and 23, wording is awkward. *Accepted. The wording was changed.*

Page 11, Increased salinity will affect the pH although it is curious why MW-30 had a pH of 7.05 while the salinity was 0.15. Note how the low salinities correlated pretty well with lower pHs; pH of sea water is about 7.8. *Noted.*

As noted in earlier reviews of these data, it is still my belief that there are two sources of groundwater reflected by the differences in the water quality parameters. There is a saturated gravel/cobble and groundwater is migrating from the adjacent uplands and mixing with the saturated cobble. Note also that MW-30 had slightly elevated DRO concentrations and MW-31 had significantly elevated lead and nickel concentrations. *Noted.*

These two well are situated furthest from the upland and therefore are less influenced, perhaps not at all, by mixing of the upland groundwater. If the monitoring wells are influenced by both the cobble and upland sources, how will the water quality be affected when (if) the upland sources diminish? In that the salinity, lead, and DRO were detected, in the MWs, at about 40-50% of cleanup levels, it wouldn't take much to exceed drinking water standards. *Noted*

Ronald J. Scrudato