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ANALYTICAL REPORT

PROJECT NO. 142541

Focus/US Filter Westates TCO/G

Lot #: H6D030231

William Anderson

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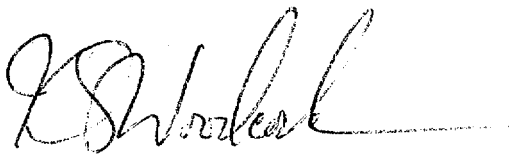
SEVERN TRENT LABORATORIES, INC.



Kevin S. Woodcock
Project Manager

April 25, 2006

ANALYTICAL METHODS SUMMARY

H6D030231

PARAMETER	ANALYTICAL METHOD
Gravimetric Analysis (GRA V)	EPA-18 GRAV
Total Chromatographable O rganics (TCO) Analysis	EPA-18 TCO

References:

EPA-18 "GUIDANCE FOR TOTAL ORGANICS," EPA/600/R-96/033, MARCH 1996.

SAMPLE SUMMARY

H6D030231

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H2H0E	001	G-2931/2932-R1-MM5 FRONT HALF COMPOSITE TRAIN C	03/28/06	
H2H0G	002	G-2933/2934-R1-MM5 BACK HALF COMPOSITE TRAIN C	03/28/06	
H2H0H	003	G-2935/2936-R1-MM5 IMPINGER COMPOSITE TRAIN C	03/28/06	
H2H0J	004	G-3043/3044-R2-MM5 FRONT HALF COMPOSITE TRAIN C	03/29/06	
H2H0M	005	G-3045/3046-R2-MM5 BACK HALF COMPOSITE TRAIN C	03/29/06	
H2H0N	006	G-3047/3048-R2-MM5 IMPINGER COMPOSITE TRAIN C	03/29/06	
H2H0R	007	G-3115/3116-R3-MM5 FRONT HALF COMPOSITE TRAIN C	03/30/06	
H2H0W	008	G-3117/3118-R3-MM5 BACK HALF COMPOSITE TRAIN C	03/30/06	
H2H0X	009	G-3119/3120-R3-MM5 IMPINGER COMPOSITE TRAIN C	03/30/06	
H2H00	010	G-3121/3122-R3-MM5 FRONT HALF COMPOSITE BT C	03/29/06	
H2H01	011	G-3123/3124-R3-MM5 BACK HALF COMPOSITE BT C	03/29/06	
H2H02	012	G-3125/3126-R3-MM5 IMPINGER COMPOSITE BT C	03/29/06	
H2H03	013	G-3127-R3-MM5 TRAIN C XAD-2 TRIP/RB	03/30/06	
H2H05	014	A-5380 MEDIA CHECK XAD	03/28/06	
H2H06	015	A-5382 MEDIA CHECK FILTER	03/28/06	

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H6D030231

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

Custody seals were not present upon sample receipt at STL Knoxville; however, the samples were hand delivered.

The "Relinquished by" field on the chain of custody documentation did not contain a signature.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

TCO/GRAV Sampling Train Preparation and Analysis

The semi-volatile organic sampling train components were extracted and analyzed for total chromatographable organics (TCO) and total gravimetric organics (GRAV) using STL Knoxville standard operating procedures KNOX-OP-0009 and KNOX-GC-0010, based on the following methods:

- SW-846 3542, "Extraction of Semivolatile Analytes Collected Using Method 0010 (Modified Method 5 Sampling Train)"
- SW-846 8015B, "Nonhalogenated Organics Using GC/FID"
- U.S. EPA "Guidance for Total Organics" (1996)

The sampling trains are prepared as three analytical fractions: The particulate filter and front half of the filter holder, nozzle and probe solvent rinses are combined as one sample. The XAD-2 resin trap and back half of the filter holder, coil condenser and

PROJECT NARRATIVE
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connecting glassware solvent rinses are combined as a separate sample. The condensate, impinger contents and their related glassware solvent rinses make up a third sample.

The filters and XAD components are spiked with the TCO surrogates and the components are Soxhlet extracted with methylene chloride. The condensates are spiked with the surrogates and extracted using a continuous liquid-liquid extractor. The extracts are concentrated to 10 mL and split in half with one portion for TCO analysis and the other for GRAV analysis.

Gas chromatography is used to determine the concentration of total chromatographable organics in the extracts. Detection, identification and quantification of the semi-volatile organic target analytes is done using a gas chromatograph with a flame ionization detector (GC/FID). This technique is non-specific in that all co-extracted organic compounds that elute between n-heptane and n-heptadecane, and render a flame ionization detector response, are detected. This range of elution approximately corresponds to the boiling range of 100°C to 300°C. The surrogate compound, n-heptadecane, is used to quantify sample recovery. Another surrogate compound, n-heptane, is also added to every sample, and the two surrogates are used to define the retention time window for TCO.

Total gravimetric organics are determined by evaporating a filtered portion of the sample extract at room temperature and determining the residue weight by difference. Residues having a boiling point of approximately 300°C and higher are determined by this procedure.

The preparation and analysis of method blanks is used to evaluate background response. Results are blank corrected by subtraction of the laboratory method blank result. The preparation and analysis of laboratory control samples are used to monitor test method performance. Gravimetric audit samples provide additional measurement of accuracy and precision for the gravimetric part of the test method.

TCO extract concentrations are calculated from peak areas as compared to a five point calibration curve. Sample results are calculated using the following equations:

$$\text{TCO Result, mg} = (\text{Extract concentration, mg / L}) * \text{Volume final extract, L} * \left(\frac{\text{Total Sample Volume, L}}{\text{Volume Sample Extracted, L}} \right)$$

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. #05-043-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, expires 6/24/05), Hawaii DOH, Illinois EPA Cert. #000687, Indiana DOH Cert. #C-TN-02, Iowa DNR Cert. #375, Kansas DHE Cert. #E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Ohio EPA VAP Cert. #CL0059, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-00576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. # QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, West Virginia DEP Cert. #345, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

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$$\text{GRAV Result, mg} = (\text{Average Weight Sample and Beaker, mg} - \text{Beaker Tare Weight, mg}) * SF * \left(\frac{\text{Total Sample Volume, L}}{\text{Volume Sample Extracted, L}}\right)$$

Where: SF = Split Factor = $\left(\frac{\text{Volume Final Extract, mL}}{\text{Volume GRAV Extract, mL}}\right)$, which is typically 10 mL/5 mL.

Note: The term $\left(\frac{\text{Total Sample Volume, L}}{\text{Volume Sample Extracted, L}}\right) = 1$ for all non-aqueous samples and is used when the volume of condensate exceeds one liter.
All sample results for TCO and GRAV are blank corrected using the following equation:

$$\text{Final Result, } mg = (\textit{Sample Result, mg} - \textit{Method Blank Result, mg})$$

A dilution factor was applied to the condensate portion of the analysis due to the initial volume of sample extracted. Only a portion of the total volume of condensate was used for this analysis. The dilution was used to properly adjust the results and reporting limits for the total amount of sample.

During review of the data, it appears that some of the Run 3 and Run 3 Blank Train samples may have been switched. The largest discrepancies appear for the condensate and filter fractions of the TCO analysis. However, this was not consistent with the GRAV analysis because the values were much lower.

Sample Data Summary

STL Knoxville - ACS

Client Sample ID: G-2931/2932-R1-MM5 FRONT HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-001 Work Order #...: H2H0E1AA Matrix.....: AIR
Date Sampled...: 03/28/06 Date Received..: 04/02/06
Prep Date.....: 04/05/06 Analysis Date..: 04/16/06
Prep Batch #...: 6095031
Dilution Factor: 1 Method.....: EPA-18 TCO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	0.34	0.050	mg	0.0050

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	89	(50 - 150)

STL Knoxville - ACS

Client Sample ID: G-2933/2934-R1-MM5 BACK HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-002	Work Order #...: H2H0G1AA	Matrix.....: AIR	
Date Sampled...: 03/28/06	Date Received..: 04/02/06		
Prep Date.....: 04/05/06	Analysis Date..: 04/16/06		
Prep Batch #...: 6095032			
Dilution Factor: 10	Method.....: EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	4.0 B	0.50	mg	0.050

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	NC,DIL	(50 - 150)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-2935/2936-R1-MM5 IMPINGER COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-003	**Work Order #...:** H2H0H1AA	**Matrix.....:** AIR	
Date Sampled...: 03/28/06	**Date Received..:** 04/02/06		
Prep Date.....: 04/05/06	**Analysis Date..:** 04/16/06		
Prep Batch #...: 6095033			
Dilution Factor: 2.53	**Method.....:** EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**0.98 B**	**0.13**	**mg**	**0.018**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	92	(50 - 150)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3043/3044-R2-MM5 FRONT HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-004	**Work Order #...:** H2H0J1AA	**Matrix.....:** AIR	
Date Sampled...: 03/29/06	**Date Received..:** 04/02/06		
Prep Date.....: 04/05/06	**Analysis Date..:** 04/16/06		
Prep Batch #...: 6095031			
Dilution Factor: 1	**Method.....:** EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**0.23**	**0.050**	**mg**	**0.0050**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	81	(50 - 150)

STL Knoxville - ACS

Client Sample ID: G-3045/3046-R2-MM5 BACK HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-005	**Work Order #...:** H2H0M1AA	**Matrix.....:** AIR	
Date Sampled...: 03/29/06	**Date Received..:** 04/02/06		
Prep Date.....: 04/05/06	**Analysis Date..:** 04/16/06		
Prep Batch #...: 6095032			
Dilution Factor: 5	**Method.....:** EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**1.4 B**	**0.25**	**mg**	**0.025**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	86	(50 - 150)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3047/3048-R2-MM5 IMPINGER COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-006	**Work Order #...:** H2H0N1AA	**Matrix.....:** AIR	
Date Sampled...: 03/29/06	**Date Received..:** 04/02/06		
Prep Date.....: 04/05/06	**Analysis Date..:** 04/16/06		
Prep Batch #...: 6095033			
Dilution Factor: 2.24	**Method.....:** EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**1.2 B**	**0.11**	**mg**	**0.016**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	107	(50 - 150)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3115/3116-R3-MM5 FRONT HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-007	**Work Order #...:** H2H0R1AA	**Matrix.....:** AIR	
Date Sampled...: 03/30/06	**Date Received..:** 04/02/06		
Prep Date.....: 04/05/06	**Analysis Date..:** 04/16/06		
Prep Batch #...: 6095031			
Dilution Factor: 1	**Method.....:** EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**0.077**	**0.050**	**mg**	**0.0050**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	87	(50 - 150)

STL Knoxville - ACS

Client Sample ID: G-3117/3118-R3-MM5 BACK HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-008 Work Order #...: H2H0W1AA Matrix.....: AIR
Date Sampled...: 03/30/06 Date Received..: 04/02/06
Prep Date.....: 04/05/06 Analysis Date..: 04/16/06
Prep Batch #...: 6095032
Dilution Factor: 3 Method.....: EPA-18 TCO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	1.8 B	0.15	mg	0.015

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	101	(50 - 150)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3119/3120-R3-MM5 IMPINGER COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-009	**Work Order #...:** H2H0X1AA	**Matrix.....:** AIR	
Date Sampled...: 03/30/06	**Date Received..:** 04/02/06		
Prep Date.....: 04/05/06	**Analysis Date..:** 04/16/06		
Prep Batch #...: 6095033			
Dilution Factor: 2.32	**Method.....:** EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**0.047 J,B**	**0.12**	**mg**	**0.016**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	105	(50 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3121/3122-R3-MM5 FRONT HALF COMPOSITE BT C

GC Semivolatiles

Lot-Sample #...: H6D030231-010	**Work Order #...:** H2H001AA	**Matrix.....:** AIR	
Date Sampled...: 03/29/06	**Date Received..:** 04/02/06		
Prep Date.....: 04/05/06	**Analysis Date..:** 04/16/06		
Prep Batch #...: 6095031			
Dilution Factor: 1	**Method.....:** EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**0.22**	**0.050**	**mg**	**0.0050**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	89	(50 - 150)

STL Knoxville - ACS

Client Sample ID: G-3123/3124-R3-MM5 BACK HALF COMPOSITE BT C

GC Semivolatiles

Lot-Sample #...: H6D030231-011	**Work Order #...:** H2H011AA	**Matrix.....:** AIR	
Date Sampled...: 03/29/06	**Date Received..:** 04/02/06		
Prep Date.....: 04/05/06	**Analysis Date..:** 04/16/06		
Prep Batch #...: 6095032			
Dilution Factor: 3	**Method.....:** EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**1.1 B**	**0.15**	**mg**	**0.015**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	93	(50 - 150)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3125/3126-R3-MM5 IMPINGER COMPOSITE BT C

GC Semivolatiles

Lot-Sample #...: H6D030231-012	Work Order #...: H2H021AA	Matrix.....: AIR	
Date Sampled...: 03/29/06	Date Received..: 04/02/06		
Prep Date.....: 04/05/06	Analysis Date..: 04/16/06		
Prep Batch #...: 6095033			
Dilution Factor: 1	Method.....: EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	0.49 B	0.050	mg	0.0070

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	99	(50 - 150)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3127-R3-MM5 TRAIN C XAD-2 TRIP/RB

GC Semivolatiles

Lot-Sample #...: H6D030231-013	Work Order #...: H2H031AA	Matrix.....: AIR	
Date Sampled...: 03/30/06	Date Received..: 04/02/06		
Prep Date.....: 04/05/06	Analysis Date..: 04/16/06		
Prep Batch #...: 6095032			
Dilution Factor: 1	Method.....: EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	0.15 B	0.050	mg	0.0050

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	104	(50 - 150)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: A-5380 MEDIA CHECK XAD

GC Semivolatiles

Lot-Sample #...: H6D030231-014 **Work Order #...:** H2H051AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/16/06
Prep Batch #...: 6095032
Dilution Factor: 1 **Method.....:** EPA-18 TCO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	ND	0.050	mg	0.0050

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	106	(50 - 150)

STL Knoxville - ACS

Client Sample ID: A-5382 MEDIA CHECK FILTER

GC Semivolatiles

Lot-Sample #...:	H6D030231-015	**Work Order #...:**	H2H061AA	**Matrix.....:**	AIR
Date Sampled...:	03/28/06	**Date Received..:**	04/02/06		
Prep Date.....:	04/05/06	**Analysis Date..:**	04/16/06		
Prep Batch #...:	6095031				
Dilution Factor:	1	**Method.....:**	EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**0.0060 J**	**0.050**	**mg**	**0.0050**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	97	(50 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT31AA **Matrix.....:** AIR
MB Lot-Sample #: H6D050000-031

Prep Date.....: 04/05/06
Analysis Date..: 04/16/06 **Prep Batch #...:** 6095031
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Chromatographable Organics	ND	0.050	mg	EPA-18 TCO

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	87	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT31AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-031 H2LT31AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/16/06
Prep Batch #...: 6095031
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Total Chromatographable Organics	**73**	**(50 - 150)**			**EPA-18 TCO**
	90	**(50 - 150)**	**21**	**(0-35)**	**EPA-18 TCO**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	73	(50 - 150)
	87	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT31AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-031 H2LT31AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/16/06
Prep Batch #...: 6095031
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Total Chromatographable Organics	**0.225**	**0.164**	**mg**	**73**		**EPA-18 TCO**
	0.225	**0.203**	**mg**	**90**	**21**	**EPA-18 TCO**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	73	(50 - 150)
	87	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT21AA **Matrix.....:** AIR
MB Lot-Sample #: H6D050000-032

Prep Date.....: 04/05/06
Analysis Date..: 04/16/06 **Prep Batch #...:** 6095032
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Chromatographable Organics	**0.022 J**	**0.050**	**mg**	**EPA-18 TCO**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	98	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT21AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-032 H2LT21AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/16/06
Prep Batch #...: 6095032
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Total Chromatographable Organics	**85**	**(50 - 150)**			**EPA-18 TCO**
	80	**(50 - 150)**	**6.4**	**(0-35)**	**EPA-18 TCO**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	86	(50 - 150)
	85	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT21AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-032 H2LT21AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/16/06
Prep Batch #...: 6095032
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Total Chromatographable Organics	**0.225**	**0.192**	**mg**	**85**		**EPA-18 TCO**
	0.225	**0.180**	**mg**	**80**	**6.4**	**EPA-18 TCO**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	86	(50 - 150)
	85	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT11AA **Matrix.....:** AIR
MB Lot-Sample #: H6D050000-033

Prep Date.....: 04/05/06
Analysis Date..: 04/16/06 **Prep Batch #...:** 6095033
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Chromatographable Organics	**0.019 J**	**0.050**	**mg**	**EPA-18 TCO**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	109	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT11AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-033 H2LT11AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/16/06
Prep Batch #...: 6095033
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Total Chromatographable Organics	**92**	**(50 - 150)**			**EPA-18 TCO**
	92	**(50 - 150)**	**0.48**	**(0-35)**	**EPA-18 TCO**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	105	(50 - 150)
	102	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT11AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-033 H2LT11AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/16/06
Prep Batch #...: 6095033
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Total Chromatographable Organics	**0.225**	**0.208**	**mg**	**92**		**EPA-18 TCO**
	0.225	**0.207**	**mg**	**92**	**0.48**	**EPA-18 TCO**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	105	(50 - 150)
	102	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

STL Knoxville
TCO Blank Correction Worksheet

Batch Number: 6095031
Prep Date: 04/05/2006 1330
Comp Date: 04/08/2006 0830

Lot Number	Lot Sample Number	Suffix	Method Code	Client ID	WO #	TCO (uncorrected) (mg)	TCO (corrected) (mg)
H6D050000	31	B	INXD	INTRA-LAB BLANK	H2LT31AA	0.003	NA
H6D050000	31	C	INXD	INTRA-LAB CHECK	H2LT31AC	0.166	0.164
H6D050000	31	L	INXD	INTRA-LAB CHECK	H2LT31AD	0.205	0.203
H6D030231	1		INXD	G-2931/2932-R1-MM5 FRONT HALF COMF	H2H0E1AA	0.344	0.341
H6D030231	4		INXD	G-3043/3044-R2-MM5 FRONT HALF COMF	H2H0J1AA	0.235	0.233
H6D030231	7		INXD	G-3115/3116-R3-MM5 FRONT HALF COMF	H2H0R1AA	0.080	0.077
H6D030231	10		INXD	G-3121/3122-R3-MM5 FRONT HALF COMF	H2H001AA	0.223	0.220
H6D030231	15		INXD	A-5382 MEDIA CHECK FILTER	H2H061AA	0.009	0.006

STL Knoxville
TCO Blank Correction Worksheet

Batch Number: 6095032
Prep Date: 04/05/2006 1330
Comp Date: 04/08/2006 0830

Lot Number	Lot Sample Number	Suffix	Method Code	Client ID	WO #	TCO (uncorrected) (mg)	TCO (corrected) (mg)
H6D050000	32	B	IOXD	INTRA-LAB BLANK	H2LT21AA	0.022	NA
H6D050000	32	C	IOXD	INTRA-LAB CHECK	H2LT21AC	0.213	0.192
H6D050000	32	L	IOXD	INTRA-LAB CHECK	H2LT21AD	0.202	0.180
H6D030231	2		IOXD	G-2933/2934-R1-MM5 BACK HALF COMPC	H2H0G1AA	4.066	4.044
H6D030231	5		IOXD	G-3045/3046-R2-MM5 BACK HALF COMPC	H2H0M1AA	1.450	1.429
H6D030231	8		IOXD	G-3117/3118-R3-MM5 BACK HALF COMPC	H2H0W1AA	1.833	1.812
H6D030231	11		IOXD	G-3123/3124-R3-MM5 BACK HALF COMPC	H2H011AA	1.141	1.119
H6D030231	13		IOXD	G-3127-R3-MM5 TRAIN C XAD-2 TRIP/RB	H2H031AA	0.174	0.153
H6D030231	14		IOXD	A-5380 MEDIA CHECK XAD	H2H051AA	0.024	0.002

STL Knoxville
TCO Blank Correction Worksheet

Batch Number: 6095033
Prep Date: 04/05/2006 1345
Comp Date: 04/07/2006 0700

Lot Number	Lot Sample Number	Suffix	Method Code	Client ID	WO #	TCO (uncorrected) (mg)	TCO (corrected) (mg)
H6D050000	33	B	10XD	INTRA-LAB BLANK	H2LT11AA	0.019	NA
H6D050000	33	C	10XD	INTRA-LAB CHECK	H2LT11AC	0.227	0.208
H6D050000	33	L	10XD	INTRA-LAB CHECK	H2LT11AD	0.226	0.207
H6D030231	3		10XD	G-2935/2936-R1-MM5 IMPINGER COMPOS	H2H0H1AA	1.004	0.985
H6D030231	6		10XD	G-3047/3048-R2-MM5 IMPINGER COMPOS	H2H0N1AA	1.227	1.209
H6D030231	9		10XD	G-3119/3120-R3-MM5 IMPINGER COMPOS	H2H0X1AA	0.065	0.047
H6D030231	12		10XD	G-3125/3126-R3-MM5 IMPINGER COMPOS	H2H021AA	0.505	0.486

STL Knoxville - ACS

Client Sample ID: G-2931/2932-R1-MM5 FRONT HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-001	**Work Order #...:** H2H0E1AC	**Matrix.....:** AIR	
Date Sampled...: 03/28/06	**Date Received..:** 04/02/06		
Prep Date.....: 04/05/06	**Analysis Date..:** 04/23/06		
Prep Batch #...: 6095034			
Dilution Factor: 1	**Method.....:** EPA-18 GRAV		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	0.47 J,B	0.50	mg	0.18

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-2933/2934-R1-MM5 BACK HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-002	**Work Order #...:** H2H0G1AC	**Matrix.....:** AIR	
Date Sampled...: 03/28/06	**Date Received..:** 04/02/06		
Prep Date.....: 04/05/06	**Analysis Date..:** 04/23/06		
Prep Batch #...: 6095035			
Dilution Factor: 1	**Method.....:** EPA-18 GRAV		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	**1.9 B**	**0.50**	**mg**	**0.25**

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-2935/2936-R1-MM5 IMPINGER COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...:	H6D030231-003	Work Order #...:	H2H0H1AC	Matrix.....:	AIR
Date Sampled...:	03/28/06	Date Received..:	04/02/06		
Prep Date.....:	04/05/06	Analysis Date..:	04/23/06		
Prep Batch #...:	6095036				
Dilution Factor:	2.53	Method.....:	EPA-18 GRAV		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	0.68 J	1.3	mg	0.63

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-3043/3044-R2-MM5 FRONT HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-004	**Work Order #...:** H2H0J1AC	**Matrix.....:** AIR	
Date Sampled...: 03/29/06	**Date Received..:** 04/02/06		
Prep Date.....: 04/05/06	**Analysis Date..:** 04/23/06		
Prep Batch #...: 6095034			
Dilution Factor: 1	**Method.....:** EPA-18 GRAV		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	**0.40 J,B**	**0.50**	**mg**	**0.18**

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3045/3046-R2-MM5 BACK HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-005	**Work Order #...:** H2H0M1AC	**Matrix.....:** AIR	
Date Sampled...: 03/29/06	**Date Received..:** 04/02/06		
Prep Date.....: 04/05/06	**Analysis Date..:** 04/23/06		
Prep Batch #...: 6095035			
Dilution Factor: 1	**Method.....:** EPA-18 GRAV		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	**1.3 B**	**0.50**	**mg**	**0.25**

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3047/3048-R2-MM5 IMPINGER COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-006 **Work Order #...:** H2H0N1AC **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/23/06
Prep Batch #...: 6095036
Dilution Factor: 2.24 **Method.....:** EPA-18 GRAV

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	ND	1.1	mg	0.56

STL Knoxville - ACS

Client Sample ID: G-3115/3116-R3-MM5 FRONT HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-007	Work Order #...: H2H0R1AC	Matrix.....: AIR	
Date Sampled...: 03/30/06	Date Received..: 04/02/06		
Prep Date.....: 04/05/06	Analysis Date..: 04/23/06		
Prep Batch #...: 6095034			
Dilution Factor: 1	Method.....: EPA-18 GRAV		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	0.47 J,B	0.50	mg	0.18

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3117/3118-R3-MM5 BACK HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-008	Work Order #...: H2H0W1AC	Matrix.....: AIR	
Date Sampled...: 03/30/06	Date Received..: 04/02/06		
Prep Date.....: 04/05/06	Analysis Date..: 04/23/06		
Prep Batch #...: 6095035			
Dilution Factor: 1	Method.....: EPA-18 GRAV		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	1.2 B	0.50	mg	0.25

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3119/3120-R3-MM5 IMPINGER COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-009 **Work Order #...:** H2H0X1AC **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/23/06
Prep Batch #...: 6095036
Dilution Factor: 2.32 **Method.....:** EPA-18 GRAV

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	ND	1.2	mg	0.58

STL Knoxville - ACS

Client Sample ID: G-3121/3122-R3-MM5 FRONT HALF COMPOSITE BT C

GC Semivolatiles

Lot-Sample #...: H6D030231-010	**Work Order #...:** H2H001AC	**Matrix.....:** AIR	
Date Sampled...: 03/29/06	**Date Received..:** 04/02/06		
Prep Date.....: 04/05/06	**Analysis Date..:** 04/23/06		
Prep Batch #...: 6095034			
Dilution Factor: 1	**Method.....:** EPA-18 GRAV		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	**0.33 J,B**	**0.50**	**mg**	**0.18**

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3123/3124-R3-MM5 BACK HALF COMPOSITE BT C

GC Semivolatiles

Lot-Sample #...: H6D030231-011	**Work Order #...:** H2H011AC	**Matrix.....:** AIR	
Date Sampled...: 03/29/06	**Date Received..:** 04/02/06		
Prep Date.....: 04/05/06	**Analysis Date..:** 04/23/06		
Prep Batch #...: 6095035			
Dilution Factor: 1	**Method.....:** EPA-18 GRAV		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	**1.0 B**	**0.50**	**mg**	**0.25**

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3125/3126-R3-MM5 IMPINGER COMPOSITE BT C

GC Semivolatiles

Lot-Sample #...: H6D030231-012 **Work Order #...:** H2H021AC **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/23/06
Prep Batch #...: 6095036
Dilution Factor: 1 **Method.....:** EPA-18 GRAV

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	ND	0.50	mg	0.25

STL Knoxville - ACS

Client Sample ID: G-3127-R3-MM5 TRAIN C XAD-2 TRIP/RB

GC Semivolatiles

Lot-Sample #...: H6D030231-013 **Work Order #...:** H2H031AC **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/23/06
Prep Batch #...: 6095035
Dilution Factor: 1 **Method.....:** EPA-18 GRAV

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	ND	0.50	mg	0.25

STL Knoxville - ACS

Client Sample ID: A-5380 MEDIA CHECK XAD

GC Semivolatiles

Lot-Sample #...: H6D030231-014 **Work Order #...:** H2H051AC **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/23/06
Prep Batch #...: 6095035
Dilution Factor: 1 **Method.....:** EPA-18 GRAV

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	ND	0.50	mg	0.25

STL Knoxville - ACS

Client Sample ID: A-5382 MEDIA CHECK FILTER

GC Semivolatiles

Lot-Sample #...: H6D030231-015	**Work Order #...:** H2H061AC	**Matrix.....:** AIR	
Date Sampled...: 03/28/06	**Date Received..:** 04/02/06		
Prep Date.....: 04/05/06	**Analysis Date..:** 04/23/06		
Prep Batch #...: 6095034			
Dilution Factor: 1	**Method.....:** EPA-18 GRAV		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	**0.33 J,B**	**0.50**	**mg**	**0.18**

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT41AA **Matrix.....:** AIR
MB Lot-Sample #: H6D050000-034
Prep Date.....: 04/05/06
Analysis Date..: 04/23/06 **Prep Batch #...:** 6095034
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Gravimetric Organic	0.40 J	0.50	mg	EPA-18 GRAV

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT41AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-034 H2LT41AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/23/06
Prep Batch #...: 6095034
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Total Gravimetric Organics	**85**	**(50 - 150)**			**EPA-18 GRAV**
	96	**(50 - 150)**	**12**	**(0-35)**	**EPA-18 GRAV**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT41AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-034 H2LT41AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/23/06
Prep Batch #...: 6095034
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Total Gravimetric Organics	**2.50**	**2.13**	**mg**	**85**		**EPA-18 GRAV**
	2.50	**2.40**	**mg**	**96**	**12**	**EPA-18 GRAV**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT51AA **Matrix.....:** AIR
MB Lot-Sample #: H6D050000-035

Prep Date.....: 04/05/06
Analysis Date..: 04/23/06 **Prep Batch #...:** 6095035
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Gravimetric Organic	**0.33 J**	**0.50**	**mg**	**EPA-18 GRAV**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT51AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-035 H2LT51AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/23/06
Prep Batch #...: 6095035
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Total Gravimetric Organics	**99**	**(50 - 150)**			**EPA-18 GRAV**
	91	**(50 - 150)**	**8.4**	**(0-35)**	**EPA-18 GRAV**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT51AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-035 H2LT51AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/23/06
Prep Batch #...: 6095035
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Total Gravimetric Organics	**2.50**	**2.47**	**mg**	**99**		**EPA-18 GRAV**
	2.50	**2.27**	**mg**	**91**	**8.4**	**EPA-18 GRAV**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT61AA **Matrix.....:** AIR
MB Lot-Sample #: H6D050000-036

Prep Date.....: 04/05/06
Analysis Date..: 04/23/06 **Prep Batch #...:** 6095036
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Gravimetric Organic	ND	0.50	mg	EPA-18 GRAV

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT61AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-036 H2LT61AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/23/06
Prep Batch #...: 6095036
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Total Gravimetric Organics	**91**	**(50 - 150)**			**EPA-18 GRAV**
	93	**(50 - 150)**	**2.6**	**(0-35)**	**EPA-18 GRAV**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT61AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-036 H2LT61AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/23/06
Prep Batch #...: 6095036
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Total Gravimetric Organics	**2.50**	**2.27**	**mg**	**91**		**EPA-18 GRAV**
	2.50	**2.33**	**mg**	**93**	**2.6**	**EPA-18 GRAV**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

STL Knoxville
Gravimetric Analysis Worksheet
Initial and Final Weights

Batch Number: 6095034
Prep Date: 04/05/2006 1330
Comp Date: 04/08/2006 0830

Lot Number	Lot Sample Number	Suffix	Method Code	Client ID	WO #	Pan No.	Initial Weights (g)				Final Weights (g)			
							1	2	3	Average	1	2	3	Average
				Methylene Chloride Blank	$MeCl_2$ Blank	1	2.9003	2.9003	2.9004	2.9003	2.9005	2.9005	2.9005	2.9005
H6D050000	34	B	INXF	INTRA-LAB BLANK	H2LT41AA	2	2.9013	2.9013	2.9013	2.9013	2.9015	2.9015	2.9015	2.9015
H6D050000	34	C	INXF	INTRA-LAB CHECK	H2LT41AC	3	2.8987	2.8987	2.8988	2.8987	2.9000	2.9000	2.9000	2.9000
H6D050000	34	L	INXF	INTRA-LAB CHECK	H2LT41AD	4	2.8999	2.8999	2.9000	2.8999	2.9014	2.9013	2.9013	2.9013
H6D030231	1		INXF	G-2931/2932-R1-MM5 FRONT HALF COMF	H2H0E1AC	5	2.9001	2.9001	2.9002	2.9001	2.9005	2.9006	2.9006	2.9006
H6D030231	4		INXF	G-3043/3044-R2-MM5 FRONT HALF COMF	H2H0J1AC	6	2.9005	2.9005	2.9006	2.9005	2.9010	2.9009	2.9009	2.9009
H6D030231	7		INXF	G-3115/3116-R3-MM5 FRONT HALF COMF	H2H0R1AC	7	2.9005	2.9005	2.9005	2.9005	2.9009	2.9009	2.9010	2.9009
H6D030231	10		INXF	G-3121/3122-R3-MM5 FRONT HALF COMF	H2H001AC	8	2.9004	2.9004	2.9004	2.9004	2.9007	2.9008	2.9008	2.9008
H6D030231	15		INXF	A-5382 MEDIA CHECK FILTER	H2H061AC	9	2.8992	2.8992	2.8993	2.8992	2.8996	2.8996	2.8996	2.8996
				GRAV AUDIT SAMPLE	GR-041806-A	10	2.9020	2.9020	2.9021	2.9020	2.9524	2.9524	2.9524	2.9524
				GRAV AUDIT SAMPLE	GR-041806-A D	11	2.9006	2.9006	2.9007	2.9006	2.9518	2.9519	2.9519	2.9519
				GRAV AUDIT SAMPLE	GR-041806-B	12	2.9030	2.9030	2.9031	2.9030	2.9997	2.9997	2.9998	2.9997
				GRAV AUDIT SAMPLE	GR-041806-B D	13	2.9008	2.9008	2.9008	2.9008	3.0001	3.0001	3.0001	3.0001
							Initial Weights (g)				Final Weights (g)			
				Balance Check	Acceptance Criteria		1	2	3	Average	1	2	3	Average
				0 g	+/- 0.0000 g		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
				5 g	+/- 0.0001 g		5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
				50 g	+/- 0.0002 g		50.0000	50.0000	50.0000	50.0000	50.0000	50.0000	50.0000	50.0000
				100 g	+/- 0.0004 g		100.0001	100.0001	100.0001	100.0001	100.0001	100.0001	100.0001	100.0001

STL Knoxville
Gravimetric Analysis Worksheet
Final Results

Client ID	WO #	Net Mass (g)	GRAV Volume (mL)	Total Volume (mL)	Total Mass Uncorrected (mg)	Total Mass Corrected (mg)	Expected Mass (mg)	% Recovery	RPD
Methylene Chloride Blank	$MeCl_2$ Blank	0.00017	5.0	10.0	0.33	NA	NA	NA	NA
INTRA-LAB BLANK	H2LT41AA	0.00020	5.0	10.0	0.40	NA	NA	NA	NA
INTRA-LAB CHECK	H2LT41AC	0.00127	5.0	10.0	2.53	2.13	2.5	85%	NA
INTRA-LAB CHECK	H2LT41AD	0.00140	5.0	10.0	2.80	2.40	2.5	96%	11.8%
G-2931/2932-R1-MM5 FRONT HALF COMP	H2H0E1AC	0.00043	5.0	10.0	0.87	0.47	NA	NA	NA
G-3043/3044-R2-MM5 FRONT HALF COMP	H2H0J1AC	0.00040	5.0	10.0	0.80	0.40	NA	NA	NA
G-3115/3116-R3-MM5 FRONT HALF COMP	H2H0R1AC	0.00043	5.0	10.0	0.87	0.47	NA	NA	NA
G-3121/3122-R3-MM5 FRONT HALF COMP	H2H001AC	0.00037	5.0	10.0	0.73	0.33	NA	NA	NA
A-5382 MEDIA CHECK FILTER	H2H061AC	0.00037	5.0	10.0	0.73	0.33	NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
GRAV AUDIT SAMPLE	GR-041806-A	0.05037	5.0	10.0	100.73	NA	103.5	97%	NA
GRAV AUDIT SAMPLE	GR-041806-A	0.05123	5.0	10.0	102.47	NA	103.5	99%	1.7%
GRAV AUDIT SAMPLE	GR-041806-B	0.09670	5.0	10.0	193.40	NA	200.7	96%	NA
GRAV AUDIT SAMPLE	GR-041806-B	0.09930	5.0	10.0	198.60	NA	200.7	99%	2.7%

STL Knoxville
Gravimetric Analysis Worksheet
Initial and Final Weights

Batch Number: 6095035
Prep Date: 04/05/2006 1330
Comp Date: 04/08/2006 0830

Lot Number	Lot Sample Number	Suffix	Method Code	Client ID	WO #	Pan No.	Initial Weights (g)				Final Weights (g)			
							1	2	3	Average	1	2	3	Average
				Methylene Chloride Blank	$MeCl_2$ Blank	1	2.9003	2.9003	2.9004	2.9003	2.9005	2.9005	2.9005	2.9005
H6D050000	35	B	IOXF	INTRA-LAB BLANK	H2LT51AA	14	2.9008	2.9008	2.9009	2.9008	2.9010	2.9010	2.9010	2.9010
H6D050000	35	C	IOXF	INTRA-LAB CHECK	H2LT51AC	15	2.8999	2.8999	2.8999	2.8999	2.9013	2.9013	2.9013	2.9013
H6D050000	35	L	IOXF	INTRA-LAB CHECK	H2LT51AD	16	2.9005	2.9005	2.9005	2.9005	2.9018	2.9018	2.9018	2.9018
H6D030231	2		IOXF	G-2933/2934-R1-MM5 BACK HALF COMPC	H2H0G1AC	17	2.8986	2.8986	2.8987	2.8986	2.8998	2.8998	2.8997	2.8998
H6D030231	5		IOXF	G-3045/3046-R2-MM5 BACK HALF COMPC	H2H0M1AC	18	2.8987	2.8987	2.8988	2.8987	2.8995	2.8996	2.8996	2.8996
H6D030231	8		IOXF	G-3117/3118-R3-MM5 BACK HALF COMPC	H2H0W1AC	19	2.9015	2.9015	2.9016	2.9015	2.9023	2.9023	2.9023	2.9023
H6D030231	11		IOXF	G-3123/3124-R3-MM5 BACK HALF COMPC	H2H011AC	20	2.9006	2.9006	2.9006	2.9006	2.9012	2.9013	2.9013	2.9013
H6D030231	13		IOXF	G-3127-R3-MM5 TRAIN C XAD-2 TRIP/RB	H2H031AC	21	2.9005	2.9005	2.9005	2.9005	2.9006	2.9006	2.9006	2.9006
H6D030231	14		IOXF	A-5380 MEDIA CHECK XAD	H2H051AC	22	2.9002	2.9002	2.9003	2.9002	2.9003	2.9003	2.9003	2.9003
				GRAV AUDIT SAMPLE	GR-041806-A	10	2.9020	2.9020	2.9021	2.9020	2.9524	2.9524	2.9524	2.9524
				GRAV AUDIT SAMPLE	GR-041806-A D	11	2.9006	2.9006	2.9007	2.9006	2.9518	2.9519	2.9519	2.9519
				GRAV AUDIT SAMPLE	GR-041806-B	12	2.9030	2.9030	2.9031	2.9030	2.9997	2.9997	2.9998	2.9997
				GRAV AUDIT SAMPLE	GR-041806-B D	13	2.9008	2.9008	2.9008	2.9008	3.0001	3.0001	3.0001	3.0001
							Initial Weights (g)				Final Weights (g)			
				Balance Check	Acceptance Criteria		1	2	3	Average	1	2	3	Average
				0 g	+/- 0.0000 g		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
				5 g	+/- 0.0001 g		5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
				50 g	+/- 0.0002 g		50.0000	50.0000	50.0000	50.0000	50.0000	50.0000	50.0000	50.0000
				100 g	+/- 0.0004 g		100.0001	100.0001	100.0001	100.0001	100.0001	100.0001	100.0001	100.0001

STL Knoxville
Gravimetric Analysis Worksheet
Final Results

Client ID	WO #	Net Mass (g)	GRAV Volume (mL)	Total Volume (mL)	Total Mass Uncorrected (mg)	Total Mass Corrected (mg)	Expected Mass (mg)	% Recovery	RPD
Methylene Chloride Blank	$MeCl_2$ Blank	0.00017	5.0	10.0	0.33	NA	NA	NA	NA
INTRA-LAB BLANK	H2LT51AA	0.00017	5.0	10.0	0.33	NA	NA	NA	NA
INTRA-LAB CHECK	H2LT51AC	0.00140	5.0	10.0	2.80	2.47	2.5	99%	NA
INTRA-LAB CHECK	H2LT51AD	0.00130	5.0	10.0	2.60	2.27	2.5	91%	8.5%
G-2933/2934-R1-MM5 BACK HALF COMPO	H2H0G1AC	0.00113	5.0	10.0	2.27	1.93	NA	NA	NA
G-3045/3046-R2-MM5 BACK HALF COMPO	H2H0M1AC	0.00083	5.0	10.0	1.67	1.33	NA	NA	NA
G-3117/3118-R3-MM5 BACK HALF COMPO	H2H0W1AC	0.00077	5.0	10.0	1.53	1.20	NA	NA	NA
G-3123/3124-R3-MM5 BACK HALF COMPO	H2H011AC	0.00067	5.0	10.0	1.33	1.00	NA	NA	NA
G-3127-R3-MM5 TRAIN C XAD-2 TRIP/RB	H2H031AC	0.00010	5.0	10.0	0.20	-0.13	NA	NA	NA
A-5380 MEDIA CHECK XAD	H2H051AC	0.00007	5.0	10.0	0.13	-0.20	NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
GRAV AUDIT SAMPLE	GR-041806-A	0.05037	5.0	10.0	100.73	NA	103.5	97%	NA
GRAV AUDIT SAMPLE	GR-041806-A	0.05123	5.0	10.0	102.47	NA	103.5	99%	1.7%
GRAV AUDIT SAMPLE	GR-041806-B	0.09670	5.0	10.0	193.40	NA	200.7	96%	NA
GRAV AUDIT SAMPLE	GR-041806-B	0.09930	5.0	10.0	198.60	NA	200.7	99%	2.7%

STL Knoxville
Gravimetric Analysis Worksheet
Initial and Final Weights

Batch Number: 6095036
Prep Date: 04/05/2006 1345
Comp Date: 04/07/2006 0700

Lot Number	Lot Sample Number	Suffix	Method Code	Client ID	WO #	Pan No.	Initial Weights (g)				Final Weights (g)			
							1	2	3	Average	1	2	3	Average
				Methylene Chloride Blank	$MeCl_2$ Blank	1	2.9003	2.9003	2.9004	2.9003	2.9005	2.9005	2.9005	2.9005
H6D050000	36	B	10XF	INTRA-LAB BLANK	H2LT61AA	23	2.9002	2.9002	2.9003	2.9002	2.9003	2.9004	2.9003	2.9003
H6D050000	36	C	10XF	INTRA-LAB CHECK	H2LT61AC	24	2.9001	2.9001	2.9002	2.9001	2.9014	2.9014	2.9013	2.9014
H6D050000	36	L	10XF	INTRA-LAB CHECK	H2LT61AD	25	2.8975	2.8975	2.8976	2.8975	2.8988	2.8988	2.8988	2.8988
H6D030231	3		10XF	G-2935/2936-R1-MM5 IMPINGER COMPOS	H2H0H1AC	26	2.8993	2.8993	2.8993	2.8993	2.8995	2.8995	2.8996	2.8995
H6D030231	6		10XF	G-3047/3048-R2-MM5 IMPINGER COMPOS	H2H0N1AC	27	2.9021	2.9021	2.9021	2.9021	2.9023	2.9022	2.9023	2.9023
H6D030231	9		10XF	G-3119/3120-R3-MM5 IMPINGER COMPOS	H2H0X1AC	28	2.9003	2.9003	2.9003	2.9003	2.9004	2.9004	2.9004	2.9004
H6D030231	12		10XF	G-3125/3126-R3-MM5 IMPINGER COMPOS	H2H021AC	29	2.9016	2.9016	2.9017	2.9016	2.9018	2.9018	2.9018	2.9018
				GRAV AUDIT SAMPLE	GR-041806-A	10	2.9020	2.9020	2.9021	2.9020	2.9524	2.9524	2.9524	2.9524
				GRAV AUDIT SAMPLE	GR-041806-A D	11	2.9006	2.9006	2.9007	2.9006	2.9518	2.9519	2.9519	2.9519
				GRAV AUDIT SAMPLE	GR-041806-B	12	2.9030	2.9030	2.9031	2.9030	2.9997	2.9997	2.9998	2.9997
				GRAV AUDIT SAMPLE	GR-041806-B D	13	2.9008	2.9008	2.9008	2.9008	3.0001	3.0001	3.0001	3.0001
					Acceptance		Initial Weights (g)				Final Weights (g)			
				Balance Check	Criteria		1	2	3	Average	1	2	3	Average
				0 g	+/- 0.0000 g		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
				5 g	+/- 0.0001 g		5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
				50 g	+/- 0.0002 g		50.0000	50.0000	50.0000	50.0000	50.0000	50.0000	50.0000	50.0000
				100 g	+/- 0.0004 g		100.0001	100.0001	100.0001	100.0001	100.0001	100.0001	100.0001	100.0001

STL Knoxville
Gravimetric Analysis Worksheet
Final Results

Client ID	WO #	Net Mass (g)	GRAV Volume (mL)	Total Volume (mL)	Total Mass Uncorrected (mg)	Total Mass Corrected (mg)	Expected Mass (mg)	% Recovery	RPD	
Methylene Chloride Blank	$MeCl_2$ Blank	0.00017	5.0	10.0	0.33	NA	NA	NA	NA	
INTRA-LAB BLANK	H2LT61AA	0.00010	5.0	10.0	0.20	NA	NA	NA	NA	*
INTRA-LAB CHECK	H2LT61AC	0.00123	5.0	10.0	2.47	2.27	2.5	91%	NA	
INTRA-LAB CHECK	H2LT61AD	0.00127	5.0	10.0	2.53	2.33	2.5	93%	2.9%	
G-2935/2936-R1-MM5 IMPINGER COMPOS	H2H0H1AC	0.00023	5.0	10.0	0.47	0.27	NA	NA	NA	×2.53 = 0.68
G-3047/3048-R2-MM5 IMPINGER COMPOS	H2H0N1AC	0.00017	5.0	10.0	0.33	0.13	NA	NA	NA	×2.24 = 0.29
G-3119/3120-R3-MM5 IMPINGER COMPOS	H2H0X1AC	0.00010	5.0	10.0	0.20	0.00	NA	NA	NA	×2.32 = 0
G-3125/3126-R3-MM5 IMPINGER COMPOS	H2H021AC	0.00017	5.0	10.0	0.33	0.13	NA	NA	NA	
							NA	NA	NA	
							NA	NA	NA	
							NA	NA	NA	
							NA	NA	NA	
							NA	NA	NA	
							NA	NA	NA	
							NA	NA	NA	
							NA	NA	NA	
							NA	NA	NA	
							NA	NA	NA	
							NA	NA	NA	
							NA	NA	NA	
GRAV AUDIT SAMPLE	GR-041806-A	0.05037	5.0	10.0	100.73	NA	103.5	97%	NA	
GRAV AUDIT SAMPLE	GR-041806-A	0.05123	5.0	10.0	102.47	NA	103.5	99%	1.7%	
GRAV AUDIT SAMPLE	GR-041806-B	0.09670	5.0	10.0	193.40	NA	200.7	96%	NA	
GRAV AUDIT SAMPLE	GR-041806-B	0.09930	5.0	10.0	198.60	NA	200.7	99%	2.7%	

0.1 Factor ↓

* Dilution Factor Applied to account for only portion of condensate being used.

QC 4/24/08

Sample Receipt Documentation

Request for Analysis/Chain-of-Custody – RFA/COC #017 [MM-5 Train C]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

STL Knoxville Lot Number: H6D030231
STL Knoxville Project Number: 142541

NOTE: After Log-In, please give the original completed RFA/COC to Patti Carswell.

Project Identification:	**Westates Carbon CPT**
STL Knoxville Project Number:	142541
STL Contact:	Ms. Patti Carswell (865) 291-3010
STL - ACS Project Manager:	Dr. William C. Anderson (865) 291-3080

Analytical Testing QC Requirements:
The Legend for Project-Specific Quality Control Testing is designated in the "QC" column as follows:
"MS" = Matrix Spike, "MSD" = Matrix Spike Duplicate,
"DUP" = Duplicate, and "PDS" = Post Digestion Spike

Laboratory Deliverable Turnaround Requirements:	
Analytical Due Date: (Review-Released Data)	21 Days from Lab Receipt
Data Package Due Date:	21 Days from Lab Receipt
Laboratory Destination:	STL Knoxville 5815 Middlebrook Pike Knoxville, Tennessee 37921 (865) 291-3000
Courier:	Federal Express

Project Deliverables:
Report analytical results on R-02 Reports and in data packages.
Include "Field Number", "Sample Type", and "Run Number" on all R-02 Reports.

Holding Time Requirements:	
Total Chromatographable Organics/Gravimetric (TCO/GRAV)	14 Days from Sample Collection to Extraction. 40 Days from Extraction to Analysis.

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require-ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-2931-R1-MM5 Front Half Composite Train C *Combine with Sample No. G-2932*	3-28-06		Petri Dish	**Particulate Filter Run #1** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Front Half of the Filter Holder and Solvent Probe Rinses sample. Soxhlet extract the Front Half Composite and reduce the volume of the extract to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for carrying out the Total Chromatograhable Organics (TCO) procedure, and the other fraction will be used to carry out the Gravimetric Analysis (GRAV) procedure.
G-2932 *Combine with Sample No.: G-2931*	3-28-06		250 mL Amber Boston Round	**Front Half of the Filter Holder and Probe Solvent Rinses, Run #1** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Particulate Filter. Follow the sample preparation instructions for the Front Half fractions.
G-2933-R1-MM5 Back Half Composite Train C *Combine with Sample No.: G-2934*	3-28-06		XAD-2 Resin Tube	**XAD-2 Resin Tube Run #1** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine the XAD-2 Resin Tube with the companion Back Half of the Filter Holder and Coil Condenser Solvent Rinses sample. Extract the Back Half Composite and concentrate to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for carrying out the Total Chromatograhable Organics (TCO) procedure, and the other fraction will be used to carry out the Gravimetric Analysis (GRAV) procedure.

Request for Analysis/Chain-of-Custody – RFA/COC #017 [MM-5 Train C]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Requirements	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-2934 *Combine with Sample No.: G-2933*	3-28-00		250 mL Amber Boston Round	**Back Half of the Filter Holder and Coil Condenser Solvent Rinses, Run #1** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion XAD-2 Resin Tube and follow the instructions for the Back Half fractions.
G-2935-R1-MM5 Impinger Composite Train C *Combine with Sample No.: G-2936*	3-28-00		3 ~~2~~ X 1 Liter Amber Boston Round FW 3-30-00	**Condensate and Impinger Contents, Run #1** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Glassware Solvent Rinses of the Impinger Contents and Condensate sample. Extract the composited samples and reduce the volume of the extract to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for carrying out the Total Chromatograhable Organics (TCO) procedure, and the other fraction will be used to carry out the Gravimetric Analysis (GRAV) procedure.
G-2936 *Combine with Sample No.: G-2935*	3-28-00		250 mL Amber Boston Round	**Glassware Solvent Rinses of the Impinger Contents and Condensate, Run #1** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Condensate and Impinger Contents. Follow the instructions for the Condensate samples.
G-3043-R2-MM5 Front Half Composite Train C *Combine with Sample No. G-3044*	3-29-00		Petri Dish	**Particulate Filter Run #2** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Front Half of the Filter Holder and Solvent Probe Rinses sample. Soxhlet extract the Front Half Composite and reduce the volume of the extract to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for carrying out the Total Chromatograhable Organics (TCO) procedure, and the other fraction will be used to carry out the Gravimetric Analysis (GRAV) procedure.
G-3044 *Combine with Sample No.: G-3043*	3-29-00		250 mL Amber Boston Round	**Front Half of the Filter Holder and Probe Solvent Rinses, Run #2** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Particulate Filter. Follow the sample preparation instructions for the Front Half fractions.

Request for Analysis/Chain-of-Custody – RFA/COC #017 [MM-5 Train C]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require-ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-3045-R2-MM5 Back Half Composite Train C *Combine with Sample No.: G-3046*	3-29-06		XAD-2 Resin Tube	**XAD-2 Resin Tube Run #2** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine the XAD-2 Resin Tube with the companion Back Half of the Filter Holder and Coil Condenser Solvent Rinses sample. Extract the Back Half Composite and concentrate to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for carrying out the Total Chromatograhable Organics (TCO) procedure, and the other fraction will be used to carry out the Gravimetric Analysis (GRAV) procedure.
G-3046 *Combine with Sample No.: G-3045*	3-29-06		250 mL Amber Boston Round	**Back Half of the Filter Holder and Coil Condenser Solvent Rinses, Run #2** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion XAD-2 Resin Tube and follow the instructions for the Back Half fractions.
G-3047-R2-MM5 Impinger Composite Train C *Combine with Sample No.: G-3048*	3-29-06		3 ~~2~~ 1 Liter Amber Boston Round TW 3-30-06	**Condensate and Impinger Contents, Run #2** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Glassware Solvent Rinses of the Impinger Contents and Condensate sample. Extract the composited samples and reduce the volume of the extract to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for carrying out the Total Chromatograhable Organics (TCO) procedure, and the other fraction will be used to carry out the Gravimetric Analysis (GRAV) procedure.
G-3048 *Combine with Sample No.: G-3047*	3-29-06		250 mL Amber Boston Round	**Glassware Solvent Rinses of the Impinger Contents and Condensate, Run #2** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Condensate and Impinger Contents. Follow the instructions for the Condensate samples.
G-3115-R3-MM5 Front Half Composite Train C *Combine with Sample No. G-3116*	3-30-06		Petri Dish	**Particulate Filter Run #3** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Front Half of the Filter Holder and Solvent Probe Rinses sample. Soxhlet extract the Front Half Composite and reduce the volume of the extract to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for carrying out the Total Chromatograhable Organics (TCO) procedure, and the other fraction will be used to carry out the Gravimetric Analysis (GRAV) procedure.

Request for Analysis/Chain-of-Custody – RFA/COC #017 [MM-5 Train C]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require-ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-3116 *Combine with Sample No.: G-3115*	3-30-06		250 mL Amber Boston Round	**Front Half of the Filter Holder and Probe Solvent Rinses, Run #3** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Particulate Filter. Follow the sample preparation instructions for the Front Half fractions.
G-3117-R3-MM5 Back Half Composite Train C *Combine with Sample No.: G-3118*	3-30-06		XAD-2 Resin Tube	**XAD-2 Resin Tube Run #3** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine the XAD-2 Resin Tube with the companion Back Half of the Filter Holder and Coil Condenser Solvent Rinses sample. Extract the Back Half Composite and concentrate to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for carrying out the Total Chromatograhable Organics (TCO) procedure, and the other fraction will be used to carry out the Gravimetric Analysis (GRAV) procedure.
G-3118 *Combine with Sample No.: G-3117*	3-30-06		250 mL Amber Boston Round	**Back Half of the Filter Holder and Coil Condenser Solvent Rinses, Run #3** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion XAD-2 Resin Tube and follow the instructions for the Back Half fractions.
G-3119-R3-MM5 Impinger Composite Train C *Combine with Sample No.: G-3120*	3-30-06		3 X 1 Liter Amber Boston Round TW 3-30-06	**Condensate and Impinger Contents, Run #3** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Glassware Solvent Rinses of the Impinger Contents and Condensate sample. Extract the composited samples and reduce the volume of the extract to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for carrying out the Total Chromatograhable Organics (TCO) procedure, and the other fraction will be used to carry out the Gravimetric Analysis (GRAV) procedure.
G-3120 *Combine with Sample No.: G-3119*	3-30-06		250 mL Amber Boston Round	**Glassware Solvent Rinses of the Impinger Contents and Condensate, Run #3** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Condensate and Impinger Contents. Follow the instructions for the Condensate samples.

Request for Analysis/Chain-of-Custody – RFA/COC #017 [MM-5 Train C]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require-ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-3121-R3-MM5 Front Half Composite BT C *Combine with Sample No. G-3122*	3-29-06	**Blank Train**	Petri Dish	**Particulate Filter Run #3** Method 0010 Blank Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Front Half of the Filter Holder and Solvent Probe Rinses sample. Soxhlet extract the Front Half Composite and reduce the volume of the extract to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for carrying out the Total Chromatograhable Organics (TCO) procedure, and the other fraction will be used to carry out the Gravimetric Analysis (GRAV) procedure.
G-3122 *Combine with Sample No.: G-3121*	3-29-06	**Blank Train**	250 mL Amber Boston Round	**Front Half of the Filter Holder and Probe Solvent Rinses, Run #3** Method 0010 Blank Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Particulate Filter. Follow the sample preparation instructions for the Front Half fractions.
G-3123-R3-MM5 Back Half Composite BT C *Combine with Sample No.: G-3124*	3-29-06	**Blank Train**	XAD-2 Resin Tube	**XAD-2 Resin Tube Run #3** Method 0010 Blank Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine the XAD-2 Resin Tube with the companion Back Half of the Filter Holder and Coil Condenser Solvent Rinses sample. Extract the Back Half Composite and concentrate to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for carrying out the Total Chromatograhable Organics (TCO) procedure, and the other fraction will be used to carry out the Gravimetric Analysis (GRAV) procedure.
G-3124 *Combine with Sample No.: G-3123*	3-29-06	**Blank Train**	250 mL Amber Boston Round	**Back Half of the Filter Holder and Coil Condenser Solvent Rinses, Run #3** Method 0010 Blank Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion XAD-2 Resin Tube and follow the instructions for the Back Half fractions.
G-3125-R3-MM5 Impinger Composite BT C *Combine with Sample No.: G-3126*	3-29-06	**Blank Train**	500 mL Amber Boston Round	**Condensate and Impinger Contents, Run #3** Method 0010 Blank Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Glassware Solvent Rinses of the Impinger Contents and Condensate sample. Extract the composited samples and reduce the volume of the extract to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for carrying out the Total Chromatograhable Organics (TCO) procedure, and the other fraction will be used to carry out the Gravimetric Analysis (GRAV) procedure.

Request for Analysis/Chain-of-Custody – RFA/COC #017 [MM-5 Train C]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require-ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-3126 *Combine with Sample No.: G-3125*	3-29-06	**Blank Train**	250 mL Amber Boston Round	**Glassware Solvent Rinses of the Impinger Contents and Condensate, Run #3** Method 0010 Blank Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Condensate and Impinger Contents. Follow the instructions for the Condensate samples.
G-3127-R3-MM-5 Train C XAD-2 Trip/RB	3-30-06	**Trip/ Reagent Blank**	XAD-2 Resin Tube	**XAD-2 Resin Tube Trip/Reagent Blank Run #3** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Soxhlet extract this sample using Methylene Chloride. Reduce the volume of the extract to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for carrying out the Total Chromatograhable Organics (TCO) procedure, and the other fraction will be used to carry out the Gravimetric Analysis (GRAV) procedure.

Request for Analysis/Chain-of-Custody – RFA/COC #017 [MM-5 Train C]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

H4D03023 1

Sample Receipt Log and Condition of the Samples Upon Receipt:

Please fill in the following information:	Comments (Please write "NONE" if no comment applicable)
(1) Record the identities of any samples that were listed on the RFA but were not found in the sample shipment.	N/A
(2) Record the sample shipping cooler temperature of all coolers transporting samples listed on this RFA:	N/A - 5.0°C
(3) Record any apparent sample loss/breakage.	N/A
(4) Record any unidentified samples transported with this shipment of samples:	N/A
(5) Indicate if all samples were received according to the project's required specifications (i.e. no nonconformances):	no nonconformances HAND DELIVERED NO CUSTODY SEALS

Custody Transfer:

Hand delivered

	Name	Company	Date/Time
Relinquished By:			
Accepted By:		STC-Knoxville	4/2/06 1625
Relinquished By:			
Accepted By:			
Relinquished By:			
Accepted By:			
Relinquished By:			
Accepted By:			

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: Focus **Project:** Westgates Carbon **Lot Number:** H6D030231

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ **1a** Do not match COC ☐ **1b** Incomplete information ☐ **1c** Marking smeared ☐ **1d** Label torn ☐ **1e** No label ☐ **1f** COC not received ☐ **1g** Other:	14a- COC not relinquished - signed/DATE/time.
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)	✓			☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **3a** Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?		✓		☑ **4a** Not present ☐ **4b** Not intact ☐ **4c** Other:	
5. Were all of the samples listed on the COC received?	✓			☐ **5a** Samples received-not on COC ☐ **5b** Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ **6a** Leaking ☐ **6b** Broken	
7. Were VOA samples received without headspace?			✓	☐ **7a** Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ **8a** Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ **9a** Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ **10a** Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐ **13a** Leaking ☐ **13b** Other:	
14. Was COC relinquished? (Signed/Dated/Timed)		✓		☑ **14a** Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ **15a** Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ **15a** Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ **15a** Incomplete information	
18. Is the client and project name/# identified?	✓			☐ **15a** Incomplete information	
19. Was the sampler identified on the COC?			✓		

Quote #: _____ PM Instructions: _____

Sample Receiving Associate: _____ Date: 4/3/06

QA026R18.doc, 1/30/06

TCO/GRAV

TCO Raw Sample Data

STL Knoxville - ACS

Client Sample ID: G-2931/2932-R1-MM5 FRONT HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-001 **Work Order #...:** H2H0E1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/16/06
Prep Batch #...: 6095031
Dilution Factor: 1 **Method.....:** EPA-18 TCO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**0.34**	**0.050**	**mg**	**0.0050**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	89	(50 - 150)

```
Software Version: 4.1<2F12>
Sample Name   : H2H0E1AA                          Time   : 4/17/2006  09:47 AM
Sample Number: 186                                Study :
Operator      : Analyst

Instrument    : GTO                        Channel : A     A/D mV Range : 10000
AutoSampler   :
Rack/Vial     : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 4/16/2006  12:16 PM
Delay Time      : 0.00   min.
End Time        : 19.00  min.
Sampling Rate   : 10.0000  pts/sec

Raw Data File     : K:\#GTO\#SEQ\A25G6\G#A5186.RAW
Result File       : K:\#GTO\#SEQ\A25G6\G#A5186.rst
Inst Method       : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5186.rst
Proc Method       : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method      : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File     : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume     : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount     : 1.0000                 Dilution Factor  : 1.00

Noise Threshold: 20           Area Threshold   : 2000     Bunch Factor: 4
Multiplier      : 0.0100      Divisor  : 1.0000       Addend  : 0.0000
User1           :                      User2         :
User3           :                      User4         :
User5           :

Instrument Conditions:
Capillary GC      -
  Instrument      : GC3400TCO
  Column          : J&W DB-1 128-1052
  Column Length   : 50m x 0.20 mm x 0.33um
  Carrier Gas     : Helium
  Flow Rate       : 25 cm/s @ 300C
  Split Ratio     : Splitless >50
  Temperature     : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1      : FID, 350C, 1 x 10-12
  Detector 2      :
  Notes           :

Total number of peaks detected: 37
```

Total Chromatographable Organics (C7-C17)

==========

Trial Burn Sampling and Analysis

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Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.921		16.5	0.0165	1.65	1.65	146764	100	16	66	16
4.959		11.1	0.0111	1.11	1.11	98723	100	11	44	11
5.551		4.9	0.0049	0.49	0.49	43387	100	5	19	5
5.738		19.8	0.0198	1.98	1.98	176529	100	20	79	20
5.998		3.7	0.0037	0.37	0.37	32777	100	4	15	4
6.135		96.0	0.0960	9.60	9.60	855882	100	96	384	96
6.232		22.8	0.0228	2.28	2.28	203092	100	23	91	23
6.297		54.0	0.0540	5.40	5.40	481570	100	54	216	54
6.377		84.9	0.0849	8.49	8.49	757493	100	85	340	85
6.459		1.4	0.0014	0.14	0.14	12174	100	1	5	1
6.614		5.3	0.0053	0.53	0.53	46917	100	5	21	5
6.686		4.4	0.0044	0.44	0.44	39642	100	4	18	4
7.120		2.6	0.0026	0.26	0.26	22777	100	3	10	3
7.212	C9	6.5	0.0065	0.65	0.65	57969	100	7	26	7
7.323		1.9	0.0019	0.19	0.19	16851	100	2	8	2
7.459		1.7	0.0017	0.17	0.17	14724	100	2	7	2
7.666		1.2	0.0012	0.12	0.12	10367	100	1	5	1
13.716		5.5	0.0055	0.55	0.55	48808	100	5	22	5
13.867	TCO Surrogates	8.0e-93	8.0e-96	7.97e-94	8.0e-94	796522	100	###	###	### 3
		343.8	0.3438	34.38	34.38	3862967				

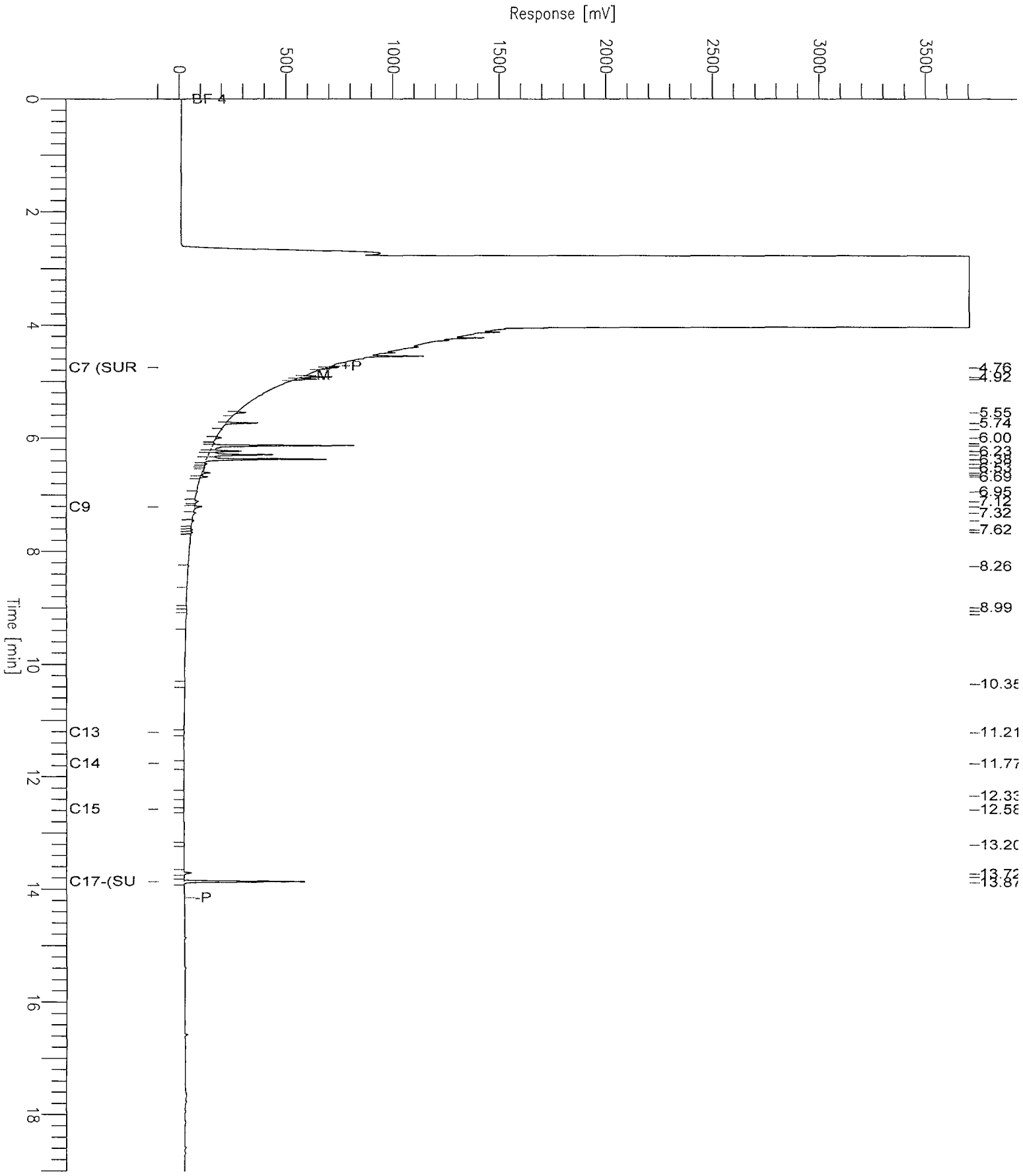
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.760	C7 (SURR) Heptane	9.5	0.0095	0.95	0.95	56233	100	9	38	9
13.867	C17-(SURR) Heptadeca	91.7	0.0917	9.17	9.17	740289	100	92	367	92
		101.2	0.1012	10.12	10.12	796522				

Chromatogram

Sample Name : H2H0E1AA
FileName : K:\#GTO\#SEQ\A25G6\G#A5186.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

Sample #: 186 Page 1 of 1
Date : 4/17/2006 09:47 AM
Time of Injection: 4/16/2006 12:16 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



STL Knoxville - ACS

Client Sample ID: G-2933/2934-R1-MM5 BACK HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-002 **Work Order #...:** H2H0G1AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/16/06
Prep Batch #...: 6095032
Dilution Factor: 10 **Method.....:** EPA-18 TCO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**4.0 B**	**0.50**	**mg**	**0.050**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	NC,DIL	(50 - 150)

NOTE(S):

NC The recovery and/or RPD were not calculated.

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

```
Software Version: 4.1<2F12>
Sample Name   : H2H0G1AA                          Time   : 4/17/2006  10:02 AM
Sample Number: 194                                Study  :
Operator      : Analyst

Instrument    : GTO                        Channel : A     A/D mV Range : 10000
AutoSampler   :
Rack/Vial     : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 4/16/2006  03:42 PM
Delay Time      : 0.00   min.
End Time        : 19.00  min.
Sampling Rate   : 10.0000  pts/sec

Raw Data File     : K:\#GTO\#SEQ\A25G6\G#A5194.RAW
Result File       : K:\#GTO\#SEQ\A25G6\G#A5194.rst
Inst Method       : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5194.rst
Proc Method       : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method      : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File     : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume     : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount     : 1.0000                 Dilution Factor  : 10.00

Noise Threshold: 20           Area Threshold   : 2000     Bunch Factor: 4
Multiplier      : 0.0100      Divisor  : 1.0000       Addend  : 0.0000
User1           :                      User2         :
User3           :                      User4         :
User5           :

Instrument Conditions:
Capillary GC      -
  Instrument      : GC3400TCO
  Column          : J&W DB-1 128-1052
  Column Length   : 50m x 0.20 mm x 0.33um
  Carrier Gas     : Helium
  Flow Rate       : 25 cm/s @ 300C
  Split Ratio     : Splitless >50
  Temperature     : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1      : FID, 350C, 1 x 10-12
  Detector 2      :
  Notes           :

Total number of peaks detected: 28
```

Total Chromatographable Organics (C7-C17)

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Trial Burn Sampling and Analysis

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Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
5.166		19.2	0.0192	1.92	0.19	17111	100	2	8	19	
5.283		56.1	0.0561	5.61	0.56	50008	100	6	22	56	
5.465		95.4	0.0954	9.54	0.95	85028	100	10	38	95	
5.681		1542.5	1.5425	154.25	15.43	1376117	100	154	617	###	3
5.982		35.4	0.0354	3.54	0.35	31520	100	4	14	35	
6.100		1376.1	1.3761	137.61	13.76	1227583	100	138	550	###	3
6.172		33.2	0.0332	3.32	0.33	29560	100	3	13	33	
6.241		29.5	0.0295	2.95	0.29	26279	100	3	12	29	
6.337		862.0	0.8620	86.20	8.62	768792	100	86	345	862	
6.563		16.6	0.0166	1.66	0.17	14774	100	2	7	17	
13.868	TCO Surrogates	7.7e-93	7.7e-96	7.71e-94	7.7e-95	77068	100	###	###	###	3
		4065.8	4.0658	406.58	40.66	3703840					

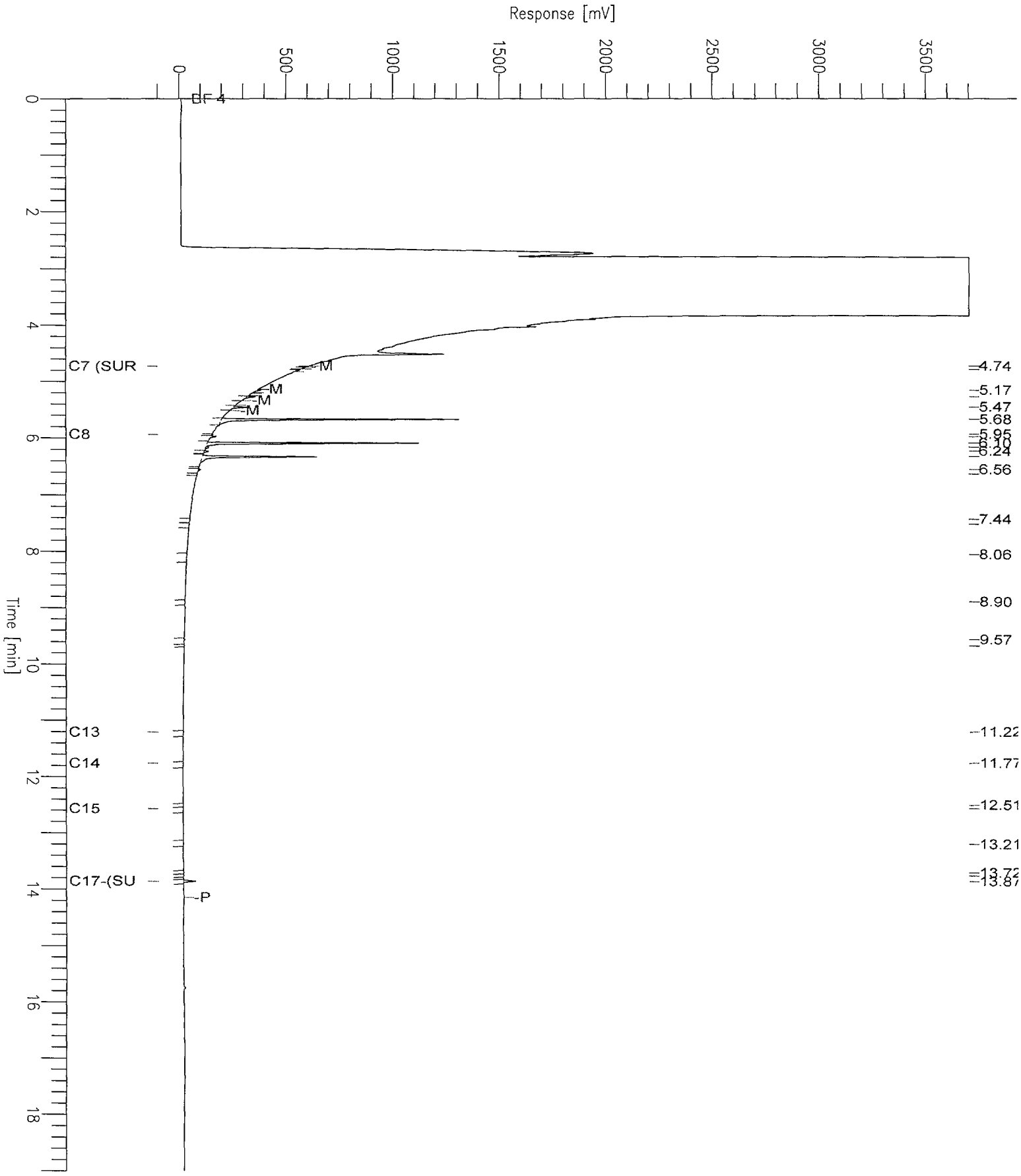
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.735	C7 (SURR) Heptane	2.6	0.0026	0.26	0.03	199	100	0	1	3
13.868	C17-(SURR) Heptadeca	95.4	0.0954	9.54	0.95	76870	100	10	38	95
		98.0	0.0980	9.80	0.98	77068				

Chromatogram

Sample Name : H2H0G1AA
FileName : K:\#GTO\#SEQ\A25G6\G#A5194.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

Sample #: 194 Page 1 of 1
Date : 4/17/2006 10:02 AM
Time of Injection: 4/16/2006 03:42 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



STL Knoxville - ACS

Client Sample ID: G-2935/2936-R1-MM5 IMPINGER COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-003	**Work Order #...:** H2H0H1AA	**Matrix.....:** AIR	
Date Sampled...: 03/28/06	**Date Received..:** 04/02/06		
Prep Date.....: 04/05/06	**Analysis Date..:** 04/16/06		
Prep Batch #...: 6095033			
Dilution Factor: 2.53	**Method.....:** EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**0.98 B**	**0.13**	**mg**	**0.018**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	92	(50 - 150)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

```
Software Version: 4.1<2F12>
Sample Name  : H2H0H1AA                          Time  : 4/21/2006  10:08 AM
Sample Number: 204                               Study :
Operator     : Analyst

Instrument   : GTO                        Channel : A     A/D mV Range : 10000
AutoSampler  :
Rack/Vial    : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 4/16/2006  07:59 PM
Delay Time     : 0.00   min.
End Time       : 19.00  min.
Sampling Rate  : 10.0000  pts/sec

Raw Data File    : K:\#GTO\#SEQ\A25G6\G#A5204.RAW
Result File      : K:\#GTO\#SEQ\A25G6\G#A5204.rst
Inst Method      : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5204.rst
Proc Method      : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method     : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File    : K:\#GTO\#SEQ\TC00125.SEQ

Sample Volume    : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount    : 1.0000                 Dilution Factor  : 2.53

Noise Threshold: 20          Area Threshold   : 2000     Bunch Factor: 4
Multiplier     : 0.0100      Divisor  : 1.0000       Addend  : 0.0000
User1          :                      User2         :
User3          :                      User4         :
User5          :

Instrument Conditions:
Capillary GC     -
  Instrument     : GC3400TCO
  Column         : J&W DB-1 128-1052
  Column Length  : 50m x 0.20 mm x 0.33um
  Carrier Gas    : Helium
  Flow Rate      : 25 cm/s @ 300C
  Split Ratio    : Splitless >50
  Temperature    : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1     : FID, 350C, 1 x 10-12
  Detector 2     :
  Notes          :

Total number of peaks detected: 42
```

Total Chromatographable Organics (C7-C17)

==========

Trial Burn Sampling and Analysis

==========

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
4.761	TCO Surrogates	3.2e-91	3.2e-94	3.21e-92	1.3e-92	12690716	100	###	###	###	1
4.934		83.2	0.0832	8.32	3.29	293111	100	33	131	83	
4.976		35.8	0.0358	3.58	1.42	126208	100	14	57	36	
5.560		37.5	0.0375	3.75	1.48	132110	100	15	59	37	
5.748		27.5	0.0275	2.75	1.09	96796	100	11	43	27	
6.103		3.8	0.0038	0.38	0.15	13480	100	2	6	4	
6.143		102.0	0.1020	10.20	4.03	359644	100	40	161	102	
6.178		24.1	0.0241	2.41	0.95	84874	100	10	38	24	
6.239		81.6	0.0816	8.16	3.22	287506	100	32	129	82	
6.303		191.5	0.1915	19.15	7.57	675216	100	76	303	192	
6.384		300.8	0.3008	30.08	11.89	1060361	100	119	475	301	
6.466		5.1	0.0051	0.51	0.20	18071	100	2	8	5	
6.532		3.4	0.0034	0.34	0.13	11955	100	1	5	3	
6.555		6.0	0.0060	0.60	0.24	21149	100	2	9	6	
6.620		19.8	0.0198	1.98	0.78	69950	100	8	31	20	
6.655		4.6	0.0046	0.46	0.18	16046	100	2	7	5	
6.691		16.2	0.0162	1.62	0.64	56919	100	6	26	16	
7.121	C9	20.0	0.0200	2.00	0.79	70441	100	8	32	20	
7.258		6.0	0.0060	0.60	0.24	21132	100	2	9	6	
7.329		7.3	0.0073	0.73	0.29	25692	100	3	12	7	
7.463		14.1	0.0141	1.41	0.56	49698	100	6	22	14	
7.670		3.9	0.0039	0.39	0.15	13697	100	2	6	4	
8.253		6.9	0.0069	0.69	0.27	24378	100	3	11	7	
13.191		2.9	0.0029	0.29	0.11	10086	100	1	5	3	
		1003.8	1.0038	100.38	39.68	16229236					

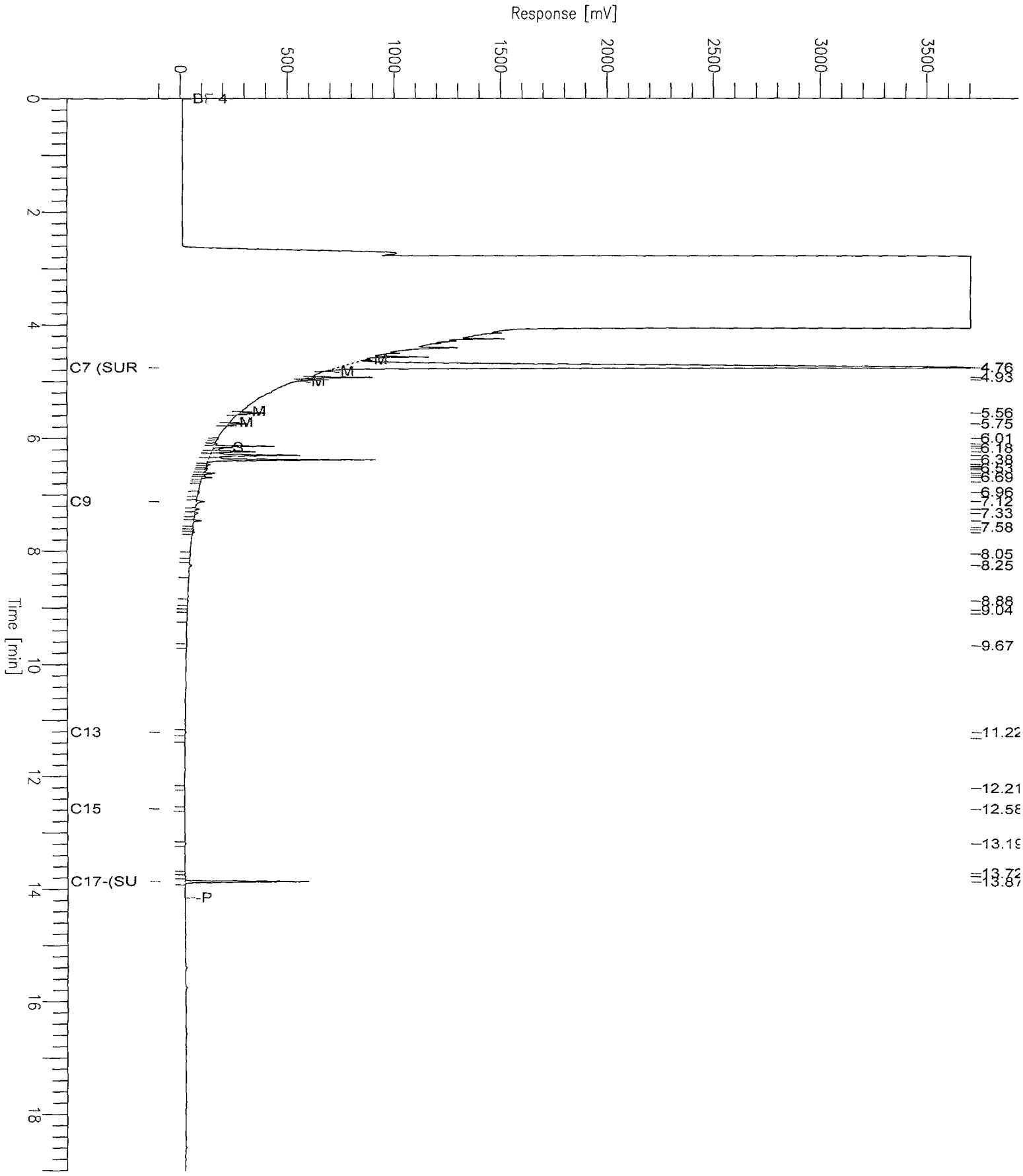
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
4.761	C7 (SURR) Heptane	3540.1	3.5401	354.01	139.93	11927632	100	###	###	###	3
13.868	C17-(SURR) Heptadeca	239.2	0.2392	23.92	9.45	763084	100	95	378	239	
		3779.3	3.7793	377.93	149.38	12690716					

Chromatogram

Sample Name : H2H0H1AA
FileName : K:\#GTO\#SEQ\A25G6\G#A5204.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

Sample #: 204 Page 1 of 1
Date : 4/21/2006 10:08 AM
Time of Injection: 4/16/2006 07:59 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



STL Knoxville - ACS

Client Sample ID: G-3043/3044-R2-MM5 FRONT HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-004 **Work Order #...:** H2H0J1AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/16/06
Prep Batch #...: 6095031
Dilution Factor: 1 **Method.....:** EPA-18 TCO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**0.23**	**0.050**	**mg**	**0.0050**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	81	(50 - 150)

```
Software Version: 4.1<2F12>
Sample Name  : H2H0J1AA                          Time  : 4/17/2006  09:47 AM
Sample Number: 187                               Study :
Operator     : Analyst

Instrument   : GTO                        Channel : A     A/D mV Range : 10000
AutoSampler  :
Rack/Vial    : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 4/16/2006  12:42 PM
Delay Time      : 0.00   min.
End Time        : 19.00  min.
Sampling Rate   : 10.0000  pts/sec

Raw Data File     : K:\#GTO\#SEQ\A25G6\G#A5187.RAW
Result File       : K:\#GTO\#SEQ\A25G6\G#A5187.rst
Inst Method       : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5187.rst
Proc Method       : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method      : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File     : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume     : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount     : 1.0000                 Dilution Factor  : 1.00

Noise Threshold: 20           Area Threshold   : 2000     Bunch Factor: 4
Multiplier     : 0.0100       Divisor  : 1.0000       Addend  : 0.0000
User1          :                      User2        :
User3          :                      User4        :
User5          :

Instrument Conditions:
Capillary GC     -
  Instrument     : GC3400TCO
  Column         : J&W DB-1 128-1052
  Column Length  : 50m x 0.20 mm x 0.33um
  Carrier Gas    : Helium
  Flow Rate      : 25 cm/s @ 300C
  Split Ratio    : Splitless >50
  Temperature    : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1     : FID, 350C, 1 x 10-12
  Detector 2     :
  Notes          :

Total number of peaks detected: 40
```

Total Chromatographable Organics (C7-C17)

==========

Trial Burn Sampling and Analysis

==========

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
4.906		10.6	0.0106	1.06	1.06	94789	100	11	43	11	
4.945		10.0	0.0100	1.00	1.00	89019	100	10	40	10	
5.540		1.2	0.0012	0.12	0.12	10504	100	1	5	1	
5.731		9.8	0.0098	0.98	0.98	87741	100	10	39	10	
5.991		1.5	0.0015	0.15	0.15	13769	100	2	6	2	
6.127		34.5	0.0345	3.45	3.45	308018	100	35	138	35	
6.164		1.9	0.0019	0.19	0.19	17036	100	2	8	2	
6.227		15.0	0.0150	1.50	1.50	133406	100	15	60	15	
6.292		38.0	0.0380	3.80	3.80	339273	100	38	152	38	
6.372		71.6	0.0716	7.16	7.16	638320	100	72	286	72	
6.454		1.2	0.0012	0.12	0.12	10960	100	1	5	1	
6.612		3.9	0.0039	0.39	0.39	34467	100	4	15	4	
6.683		3.4	0.0034	0.34	0.34	29881	100	3	13	3	
7.127	C9	2.0	0.0020	0.20	0.20	18139	100	2	8	2	
7.207		18.9	0.0189	1.89	1.89	168544	100	19	76	19	
7.323		2.5	0.0025	0.25	0.25	21900	100	2	10	2	
7.459		2.0	0.0020	0.20	0.20	18034	100	2	8	2	
10.785		1.6	0.0016	0.16	0.16	13912	100	2	6	2	
11.314		1.4	0.0014	0.14	0.14	12460	100	1	6	1	
11.623		2.1	0.0021	0.21	0.21	18748	100	2	8	2	
13.200		2.0	0.0020	0.20	0.20	17691	100	2	8	2	
13.868	TCO Surrogates	7.0e-93	7.0e-96	7.01e-94	7.0e-94	700609	100	###	###	###	3
		235.1	0.2351	23.51	23.51	2797221					

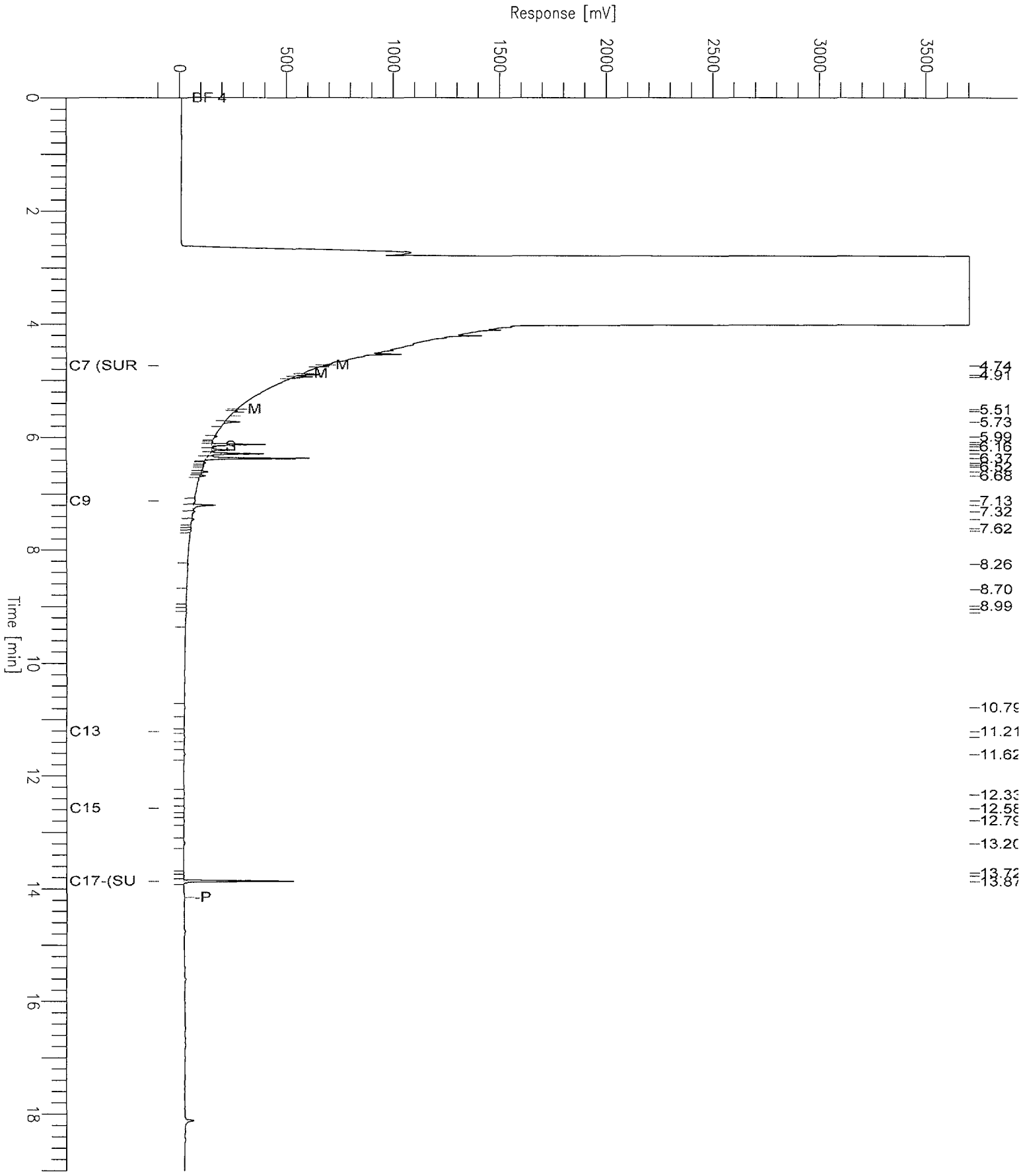
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.743	C7 (SURR) Heptane	4.4	0.0044	0.44	0.44	25548	100	4	18	4
13.868	C17-(SURR) Heptadeca	83.7	0.0837	8.37	8.37	675060	100	84	335	84
		88.1	0.0881	8.81	8.81	700609				

Chromatogram

Sample Name : H2H0J1AA
FileName : K:\#GTO\#SEQ\A25G6\G#A5187.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

Sample #: 187 Page 1 of 1
Date : 4/17/2006 09:47 AM
Time of Injection: 4/16/2006 12:42 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



STL Knoxville - ACS

Client Sample ID: G-3045/3046-R2-MM5 BACK HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-005	**Work Order #...:** H2H0M1AA	**Matrix.....:** AIR	
Date Sampled...: 03/29/06	**Date Received..:** 04/02/06		
Prep Date.....: 04/05/06	**Analysis Date..:** 04/16/06		
Prep Batch #...: 6095032			
Dilution Factor: 5	**Method.....:** EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**1.4 B**	**0.25**	**mg**	**0.025**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	86	(50 - 150)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

```
Software Version: 4.1<2F12>
Sample Name   : H2H0M1AA                          Time   : 4/17/2006  10:02 AM
Sample Number: 195                                Study  :
Operator      : Analyst

Instrument    : GTO                        Channel : A     A/D mV Range : 10000
AutoSampler   :
Rack/Vial     : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 4/16/2006  04:07 PM
Delay Time      : 0.00   min.
End Time        : 19.00  min.
Sampling Rate   : 10.0000  pts/sec

Raw Data File     : K:\#GTO\#SEQ\A25G6\G#A5195.RAW
Result File       : K:\#GTO\#SEQ\A25G6\G#A5195.rst
Inst Method       : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5195.rst
Proc Method       : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method      : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File     : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume     : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount     : 1.0000                 Dilution Factor  : 5.00

Noise Threshold: 20           Area Threshold   : 2000     Bunch Factor: 4
Multiplier      : 0.0100      Divisor  : 1.0000       Addend  : 0.0000
User1           :                      User2        :
User3           :                      User4        :
User5           :

Instrument Conditions:
Capillary GC      -
  Instrument      : GC3400TCO
  Column          : J&W DB-1 128-1052
  Column Length   : 50m x 0.20 mm x 0.33um
  Carrier Gas     : Helium
  Flow Rate       : 25 cm/s @ 300C
  Split Ratio     : Splitless >50
  Temperature     : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1      : FID, 350C, 1 x 10-12
  Detector 2      :
  Notes           :

Total number of peaks detected: 37
```

Total Chromatographable Organics (C7-C17)

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
4.871		5.7	0.0057	0.57	0.11	10212	100	1	5	6	
5.294		78.0	0.0780	7.80	1.56	139130	100	16	62	78	
5.478		247.0	0.2470	24.70	4.94	440548	100	49	198	247	
5.696		19.2	0.0192	1.92	0.38	34182	100	4	15	19	
6.110		759.6	0.7596	75.96	15.19	1355302	100	152	608	760	
6.185		23.0	0.0230	2.30	0.46	40981	100	5	18	23	
6.253		29.1	0.0291	2.91	0.58	51930	100	6	23	29	
6.348		264.6	0.2646	26.46	5.29	471899	100	53	212	265	
7.525		6.1	0.0061	0.61	0.12	10795	100	1	5	6	
9.583		6.3	0.0063	0.63	0.13	11263	100	1	5	6	
9.697		11.4	0.0114	1.14	0.23	20391	100	2	9	11	
13.878	TCO Surrogates	7.2e-93	7.2e-96	7.16e-94	1.4e-94	143141	100	###	###	###	3
		1450.0	1.4500	145.00	29.00	2729773					

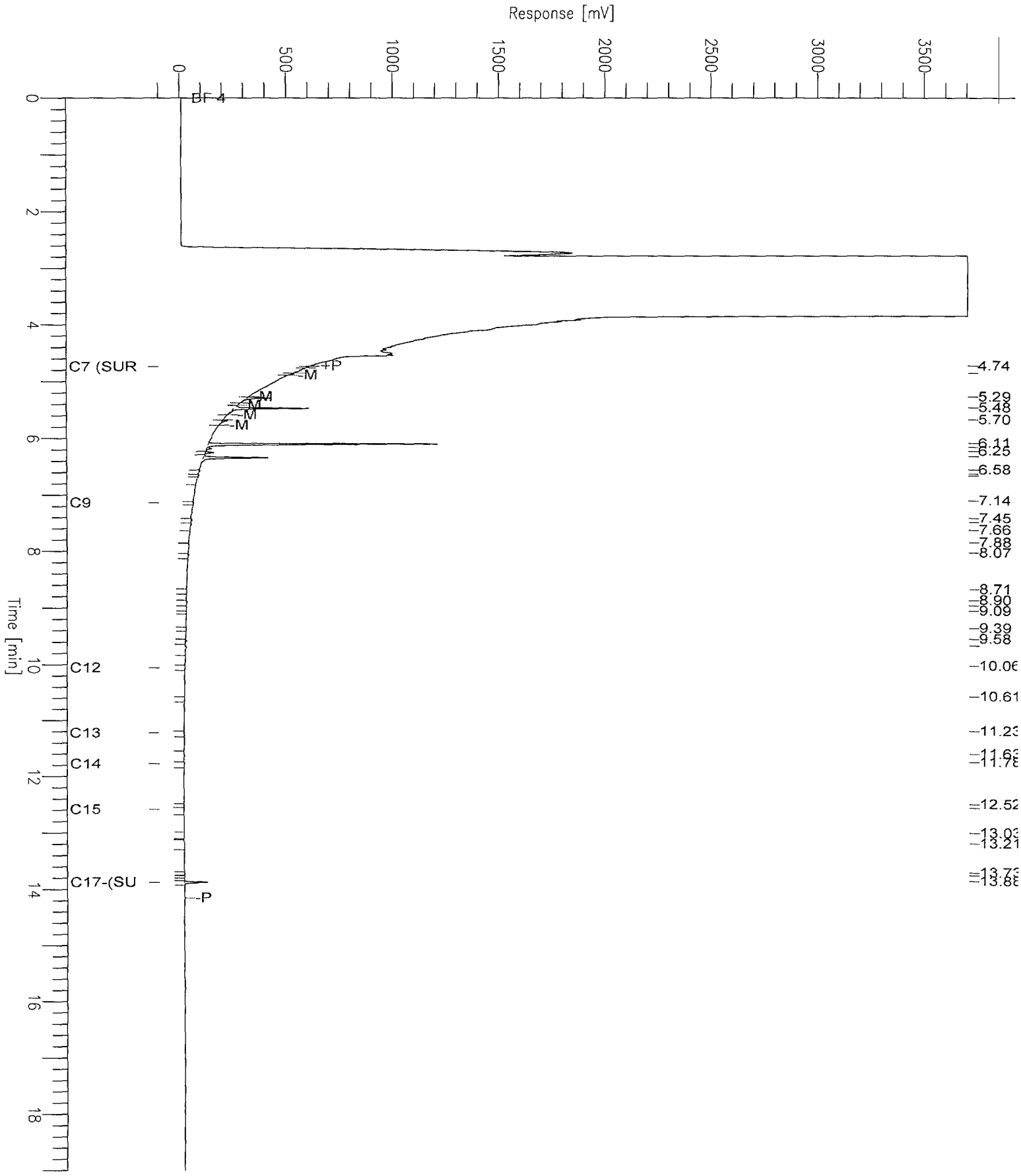
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.743	C7 (SURR) Heptane	1.2	0.0012	0.12	0.02	62	100	0	1	1
13.878	C17-(SURR) Heptadeca	88.8	0.0888	8.88	1.78	143078	100	18	71	89
		90.0	0.0900	9.00	1.80	143141				

Chromatogram

Sample Name : H2H0M1AA
FileName : K:\#GTO\#SEQ\A25G6\G#A5195.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

Sample #: 195 Page 1 of 1
Date : 4/17/2006 10:02 AM
Time of Injection: 4/16/2006 04:07 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



STL Knoxville - ACS

Client Sample ID: G-3047/3048-R2-MM5 IMPINGER COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-006 **Work Order #...:** H2H0N1AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/16/06
Prep Batch #...: 6095033
Dilution Factor: 2.24 **Method.....:** EPA-18 TCO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**1.2 B**	**0.11**	**mg**	**0.016**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	107	(50 - 150)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Software Version: 4.1<2F12>
Sample Name : H2H0N1AA Time : 4/21/2006 10:08 AM
Sample Number: 205 Study :
Operator : Analyst

Instrument : GTO Channel : A A/D mV Range : 10000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 1168573804 Data Acquisition Time: 4/16/2006 08:25 PM
Delay Time : 0.00 min.
End Time : 19.00 min.
Sampling Rate : 10.0000 pts/sec

Raw Data File : K:\#GTO\#SEQ\A25G6\G#A5205.RAW
Result File : K:\#GTO\#SEQ\A25G6\G#A5205.rst
Inst Method : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5205.rst
Proc Method : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume : 1.0000 ul Area Reject : 10000.000000
Sample Amount : 1.0000 Dilution Factor : 2.24

Noise Threshold: 20 Area Threshold : 2000 Bunch Factor: 4
Multiplier : 0.0100 Divisor : 1.0000 Addend : 0.0000
User1 : User2 :
User3 : User4 :
User5 :

Instrument Conditions:
Capillary GC -
Instrument : GC3400TCO
Column : J&W DB-1 128-1052
Column Length : 50m x 0.20 mm x 0.33um
Carrier Gas : Helium
Flow Rate : 25 cm/s @ 300C
Split Ratio : Splitless >50
Temperature : 65C (2M) to 300C (5m) @ 20C/min
Injection Temp.: 275C
Detector 1 : FID, 350C, 1 x 10-12
Detector 2 :
Notes :

Total number of peaks detected: 56

Total Chromatographable Organics (C7-C17)

==========
Trial Burn Sampling and Analysis
==========

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
4.793	TCO Surrogates	4.7e-91	4.7e-94	4.67e-92	2.1e-92	20860838	100	###	###	###	1
4.936		22.1	0.0221	2.21	0.99	88140	100	10	40	22	
4.980		42.8	0.0428	4.28	1.91	170522	100	19	76	43	
5.198		4.4	0.0044	0.44	0.20	17612	100	2	8	4	
5.470		8.0	0.0080	0.80	0.36	31902	100	4	14	8	
5.561		60.7	0.0607	6.07	2.71	241533	100	27	108	61	
5.749		27.8	0.0278	2.78	1.24	110784	100	12	50	28	
6.006		36.9	0.0369	3.69	1.65	146992	100	16	66	37	
6.103		5.8	0.0058	0.58	0.26	23145	100	3	10	6	
6.144		116.9	0.1169	11.69	5.22	465514	100	52	209	117	
6.177		24.1	0.0241	2.41	1.07	95769	100	11	43	24	
6.237		98.6	0.0986	9.86	4.40	392444	100	44	176	99	
6.302		223.2	0.2232	22.32	9.96	888634	100	100	399	223	
6.382		342.4	0.3424	34.24	15.29	1363854	100	153	612	342	
6.465		5.4	0.0054	0.54	0.24	21453	100	2	10	5	
6.618		17.8	0.0178	1.78	0.79	70865	100	8	32	18	
6.689		15.5	0.0155	1.55	0.69	61613	100	7	28	15	
6.953		3.4	0.0034	0.34	0.15	13587	100	2	6	3	
7.116		77.9	0.0779	7.79	3.48	310229	100	35	139	78	
7.213	C9	16.7	0.0167	1.67	0.75	66623	100	7	30	17	
7.255		6.1	0.0061	0.61	0.27	24455	100	3	11	6	
7.326		8.6	0.0086	0.86	0.38	34225	100	4	15	9	
7.461		4.6	0.0046	0.46	0.21	18330	100	2	8	5	
7.626		20.5	0.0205	2.05	0.91	81534	100	9	37	20	
7.666		4.9	0.0049	0.49	0.22	19671	100	2	9	5	
8.247		3.9	0.0039	0.39	0.18	15711	100	2	7	4	
11.317		5.6	0.0056	0.56	0.25	22130	100	2	10	6	
11.620		7.1	0.0071	0.71	0.32	28407	100	3	13	7	
13.191		8.3	0.0083	0.83	0.37	33072	100	4	15	8	
13.716		4.3	0.0043	0.43	0.19	17184	100	2	8	4	
13.779		2.8	0.0028	0.28	0.12	11030	100	1	5	3	
		1227.4	1.2274	122.74	54.80	25747799					

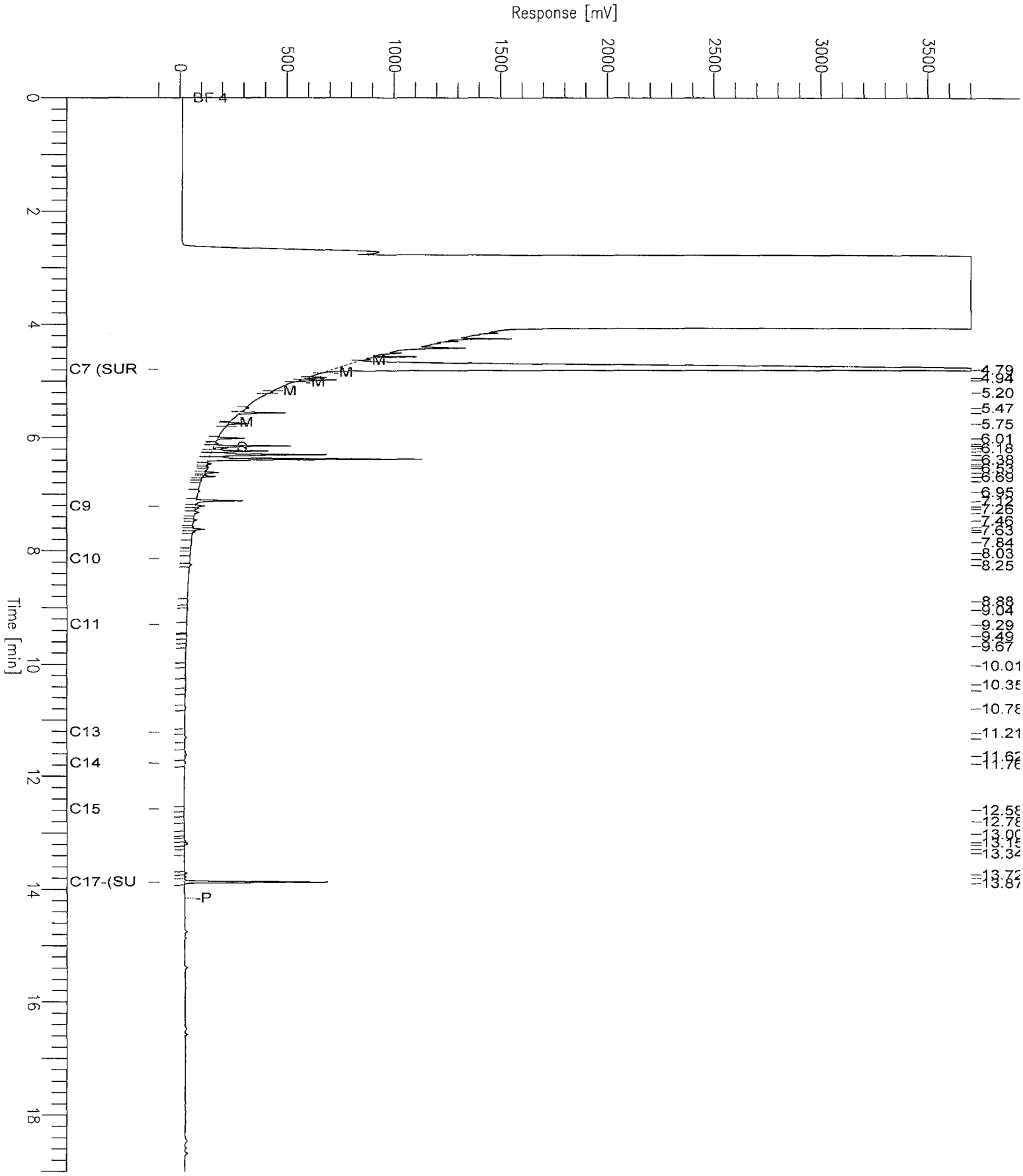
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
4.793	C7 (SURR) Heptane	4617.0	4.6170	461.70	206.11	19970084	100	###	###	###	3
13.868	C17-(SURR) Heptadeca	247.1	0.2471	24.71	11.03	890754	100	110	441	247	
		4864.1	4.8641	486.41	217.15	20860838					

Chromatogram

Sample Name : H2H0N1AA
FileName : K:\#GTO\#SEQ\A25G6\G#A5205.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

Sample #: 205 Page 1 of 1
Date : 4/21/2006 10:08 AM
Time of Injection: 4/16/2006 08:25 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



STL Knoxville - ACS

Client Sample ID: G-3115/3116-R3-MM5 FRONT HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-007	**Work Order #...:** H2H0R1AA	**Matrix.....:** AIR	
Date Sampled...: 03/30/06	**Date Received..:** 04/02/06		
Prep Date.....: 04/05/06	**Analysis Date..:** 04/16/06		
Prep Batch #...: 6095031			
Dilution Factor: 1	**Method.....:** EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**0.077**	**0.050**	**mg**	**0.0050**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	87	(50 - 150)

```
Software Version: 4.1<2F12>
Sample Name  : H2H0R1AA                          Time  : 4/17/2006  09:47 AM
Sample Number: 188                               Study :
Operator     : Analyst

Instrument   : GTO                        Channel : A     A/D mV Range : 10000
AutoSampler  :
Rack/Vial    : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 4/16/2006  01:07 PM
Delay Time     : 0.00   min.
End Time       : 19.00  min.
Sampling Rate  : 10.0000  pts/sec

Raw Data File    : K:\#GTO\#SEQ\A25G6\G#A5188.RAW
Result File      : K:\#GTO\#SEQ\A25G6\G#A5188.rst
Inst Method      : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5188.rst
Proc Method      : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method     : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File    : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume    : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount    : 1.0000                 Dilution Factor  : 1.00

Noise Threshold: 20          Area Threshold   : 2000     Bunch Factor: 4
Multiplier     : 0.0100      Divisor  : 1.0000       Addend  : 0.0000
User1          :                      User2        :
User3          :                      User4        :
User5          :

Instrument Conditions:
Capillary GC     -
  Instrument     : GC3400TCO
  Column         : J&W DB-1 128-1052
  Column Length  : 50m x 0.20 mm x 0.33um
  Carrier Gas    : Helium
  Flow Rate      : 25 cm/s @ 300C
  Split Ratio    : Splitless >50
  Temperature    : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1     : FID, 350C, 1 x 10-12
  Detector 2     :
  Notes          :

Total number of peaks detected: 29
```

Total Chromatographable Organics (C7-C17)

==========

rial Burn Sampling and Analysis

==========

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
4.843		1.8	0.0018	0.18	0.18	15718	100	2	7	2	
4.871		5.4	0.0054	0.54	0.54	48350	100	5	22	5	
5.493		5.2	0.0052	0.52	0.52	45928	100	5	21	5	
5.702		1.9	0.0019	0.19	0.19	17278	100	2	8	2	
6.105		33.8	0.0338	3.38	3.38	301166	100	34	135	34	
6.194		3.2	0.0032	0.32	0.32	28958	100	3	13	3	
6.261		6.4	0.0064	0.64	0.64	56924	100	6	26	6	
6.343		11.6	0.0116	1.16	1.16	103544	100	12	46	12	
7.311		3.5	0.0035	0.35	0.35	31294	100	4	14	4	
7.449		3.0	0.0030	0.30	0.30	26986	100	3	12	3	
7.614		1.2	0.0012	0.12	0.12	11013	100	1	5	1	
7.660		1.5	0.0015	0.15	0.15	13403	100	2	6	2	
11.622		1.4	0.0014	0.14	0.14	12106	100	1	5	1	
13.867	TCO Surrogates	7.3e-93	7.3e-96	7.26e-94	7.3e-94	725697	100	###	###	###	3
		79.9	0.0799	7.99	7.99	1438366					

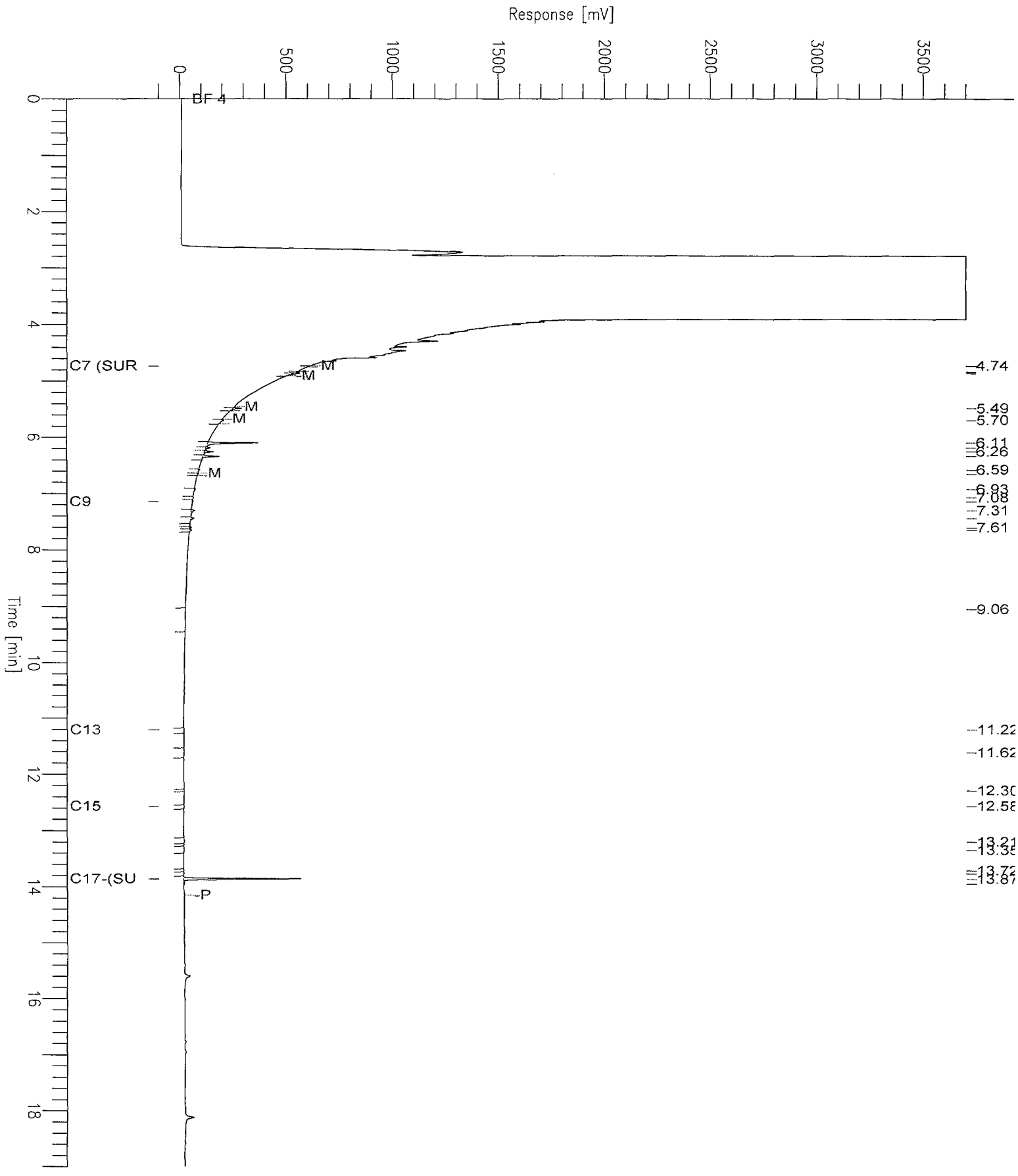
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.737	C7 (SURR) Heptane	0.3	0.0003	0.03	0.03	157	100	0	1	0
13.867	C17-(SURR) Heptadeca	89.9	0.0899	8.99	8.99	725540	100	90	360	90
		90.2	0.0902	9.02	9.02	725697				

Chromatogram

Sample Name : H2H0R1AA
FileName : K:\#GTO\#SEQ\A25G6\G#A5188.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

Sample #: 188 Page 1 of 1
Date : 4/17/2006 09:47 AM
Time of Injection: 4/16/2006 01:07 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



STL Knoxville - ACS

Client Sample ID: G-3117/3118-R3-MM5 BACK HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-008	**Work Order #...:** H2H0W1AA	**Matrix.....:** AIR	
Date Sampled...: 03/30/06	**Date Received..:** 04/02/06		
Prep Date.....: 04/05/06	**Analysis Date..:** 04/16/06		
Prep Batch #...: 6095032			
Dilution Factor: 3	**Method.....:** EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**1.8 B**	**0.15**	**mg**	**0.015**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	101	(50 - 150)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Software Version: 4.1<2F12>
Sample Name : H2H0W1AA Time : 4/17/2006 10:02 AM
Sample Number: 196 Study :
Operator : Analyst

Instrument : GTO Channel : A A/D mV Range : 10000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 1168573804 Data Acquisition Time: 4/16/2006 04:33 PM
Delay Time : 0.00 min.
End Time : 19.00 min.
Sampling Rate : 10.0000 pts/sec

Raw Data File : K:\#GTO\#SEQ\A25G6\G#A5196.RAW
Result File : K:\#GTO\#SEQ\A25G6\G#A5196.rst
Inst Method : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5196.rst
Proc Method : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume : 1.0000 ul Area Reject : 10000.000000
Sample Amount : 1.0000 Dilution Factor : 3.00

Noise Threshold: 20 Area Threshold : 2000 Bunch Factor: 4
Multiplier : 0.0100 Divisor : 1.0000 Addend : 0.0000
User1 : User2 :
User3 : User4 :
User5 :

Instrument Conditions:
Capillary GC -
Instrument : GC3400TCO
Column : J&W DB-1 128-1052
Column Length : 50m x 0.20 mm x 0.33um
Carrier Gas : Helium
Flow Rate : 25 cm/s @ 300C
Split Ratio : Splitless >50
Temperature : 65C (2M) to 300C (5m) @ 20C/min
Injection Temp.: 275C
Detector 1 : FID, 350C, 1 x 10-12
Detector 2 :
Notes :

Total number of peaks detected: 44

Total Chromatographable Organics (C7-C17)

Trial Burn Sampling and Analysis

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
5.291		99.4	0.0994	9.94	3.31	295316	100	33	132	99	
5.476		325.9	0.3259	32.59	10.86	969092	100	109	435	326	
5.690		11.5	0.0115	1.15	0.38	34171	100	4	15	11	
5.993		16.1	0.0161	1.61	0.54	47753	100	5	21	16	
6.108		773.9	0.7739	77.39	25.80	2302202	100	258	###	774	
6.345		528.6	0.5286	52.86	17.62	1571990	100	176	705	529	
6.687		4.2	0.0042	0.42	0.14	12515	100	1	6	4	
7.511		9.0	0.0090	0.90	0.30	26820	100	3	12	9	
8.057		4.7	0.0047	0.47	0.16	14105	100	2	6	5	
8.681		4.8	0.0048	0.48	0.16	14314	100	2	6	5	
8.889		6.9	0.0069	0.69	0.23	20494	100	2	9	7	
9.074		3.5	0.0035	0.35	0.12	10540	100	1	5	4	
9.572		7.2	0.0072	0.72	0.24	21287	100	2	10	7	
9.675		12.6	0.0126	1.26	0.42	37502	100	4	17	13	
9.846		4.6	0.0046	0.46	0.15	13819	100	2	6	5	
10.030		20.3	0.0203	2.03	0.68	60427	100	7	27	20	
13.868	TCO Surrogates	8.4e-93	8.4e-96	8.39e-94	2.8e-94	279635	100	###	###	###	3
		1833.3	1.8333	183.33	61.11	5731981					

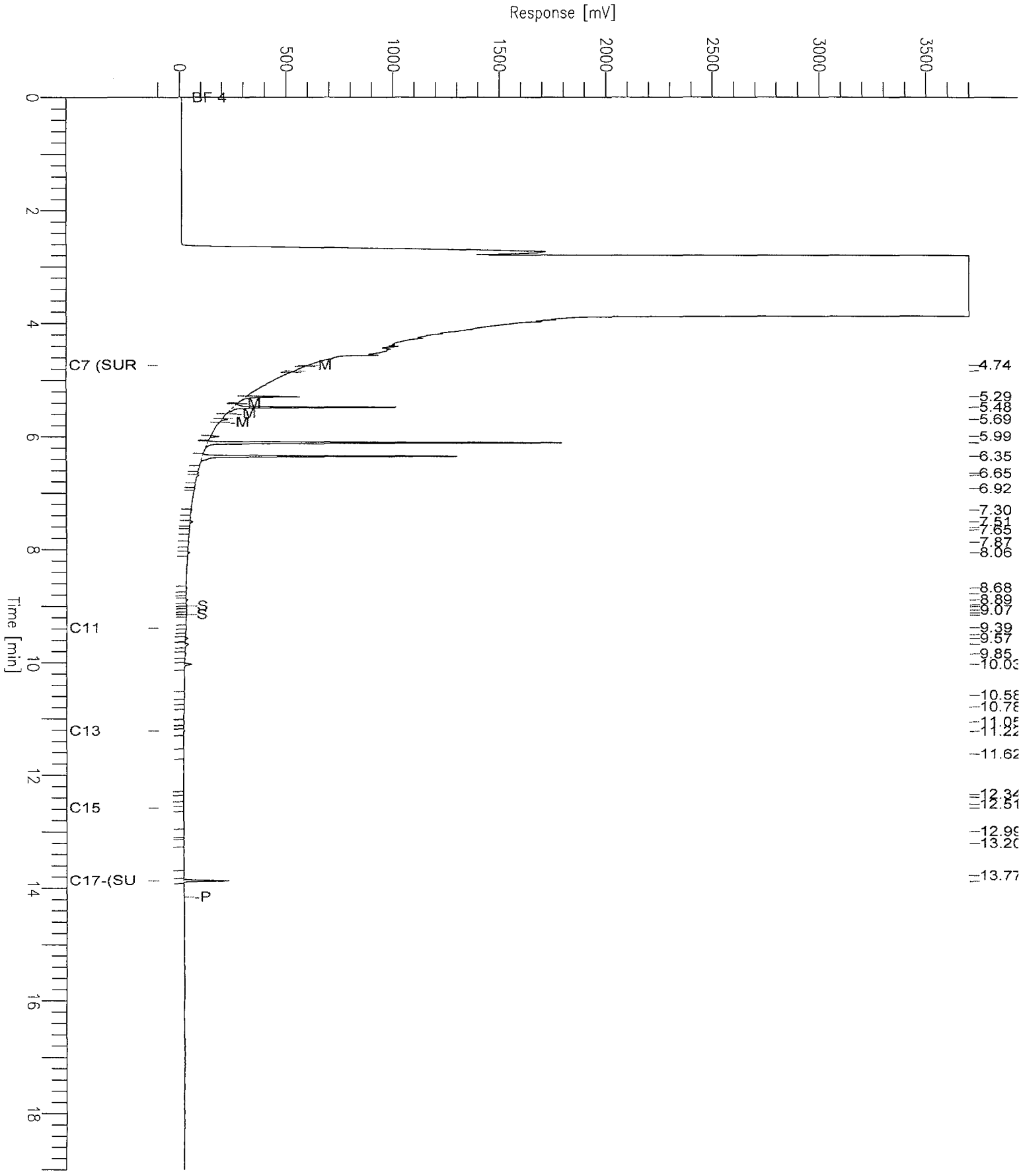
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.735	C7 (SURR) Heptane	0.7	0.0007	0.07	0.02	40	100	0	1	1
13.868	C17-(SURR) Heptadeca	104.1	0.1041	10.41	3.47	279595	100	35	139	104
		104.8	0.1048	10.48	3.49	279635				

Chromatogram

Sample Name : H2H0W1AA
FileName : K:\#GTO\#SEQ\A25G6\G#A5196.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

Sample #: 196 Page 1 of 1
Date : 4/17/2006 10:02 AM
Time of Injection: 4/16/2006 04:33 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



STL Knoxville - ACS

Client Sample ID: G-3119/3120-R3-MM5 IMPINGER COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-009	**Work Order #...:** H2H0X1AA	**Matrix.....:** AIR	
Date Sampled...: 03/30/06	**Date Received..:** 04/02/06		
Prep Date.....: 04/05/06	**Analysis Date..:** 04/16/06		
Prep Batch #...: 6095033			
Dilution Factor: 2.32	**Method.....:** EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**0.047 J,B**	**0.12**	**mg**	**0.016**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	105	(50 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Software Version: 4.1<2F12>
Sample Name : H2H0X1AA Time : 4/21/2006 10:08 AM
Sample Number: 206 Study :
Operator : Analyst

Instrument : GTO Channel : A A/D mV Range : 10000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 1168573804 Data Acquisition Time: 4/16/2006 08:50 PM
Delay Time : 0.00 min.
End Time : 19.00 min.
Sampling Rate : 10.0000 pts/sec

Raw Data File : K:\#GTO\#SEQ\A25G6\G#A5206.RAW
Result File : K:\#GTO\#SEQ\A25G6\G#A5206.rst
Inst Method : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5206.rst
Proc Method : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume : 1.0000 ul Area Reject : 10000.000000
Sample Amount : 1.0000 Dilution Factor : 2.32

Noise Threshold: 20 Area Threshold : 2000 Bunch Factor: 4
Multiplier : 0.0100 Divisor : 1.0000 Addend : 0.0000
User1 : User2 :
User3 : User4 :
User5 :

Instrument Conditions:
Capillary GC -
Instrument : GC3400TCO
Column : J&W DB-1 128-1052
Column Length : 50m x 0.20 mm x 0.33um
Carrier Gas : Helium
Flow Rate : 25 cm/s @ 300C
Split Ratio : Splitless >50
Temperature : 65C (2M) to 300C (5m) @ 20C/min
Injection Temp.: 275C
Detector 1 : FID, 350C, 1 x 10-12
Detector 2 :
Notes :

Total number of peaks detected: 28

Total Chromatographable Organics (C7-C17)

Trial Burn Sampling and Analysis

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
5.437		4.3	0.0043	0.43	0.19	16495	100	2	7	4	
6.092		4.4	0.0044	0.44	0.19	16897	100	2	8	4	
6.904		3.2	0.0032	0.32	0.14	12290	100	1	6	3	
7.136	C9	2.8	0.0028	0.28	0.12	10946	100	1	5	3	
7.291		11.9	0.0119	1.19	0.51	45863	100	5	21	12	
7.600		4.4	0.0044	0.44	0.19	17043	100	2	8	4	
7.645		5.6	0.0056	0.56	0.24	21392	100	2	10	6	
11.309		8.6	0.0086	0.86	0.37	33090	100	4	15	9	
11.621		4.9	0.0049	0.49	0.21	18862	100	2	8	5	
13.190		8.6	0.0086	0.86	0.37	33049	100	4	15	9	
13.867	TCO Surrogates	2.3e-92	2.3e-95	2.25e-93	9.7e-94	970575	100	###	###	###	2
13.945		6.6	0.0066	0.66	0.29	25488	100	3	11	7	
		65.4	0.0654	6.54	2.82	1221990					

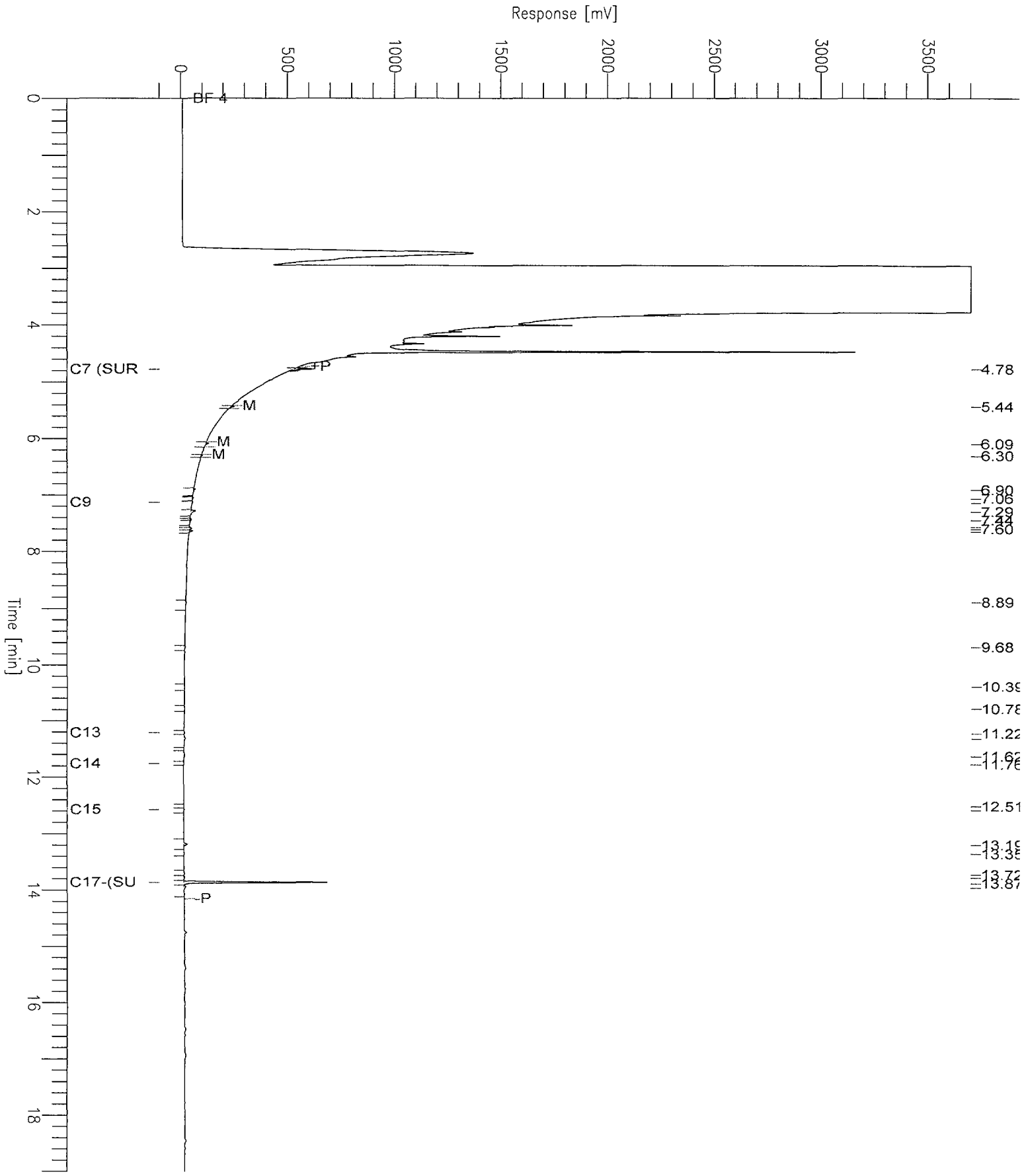
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.781	C7 (SURR) Heptane	37.2	0.0372	3.72	1.60	96192	100	16	64	37
13.867	C17-(SURR) Heptadeca	251.2	0.2512	25.12	10.83	874383	100	108	433	251
		288.4	0.2884	28.84	12.43	970575				

Chromatogram

Sample Name : H2H0X1AA
FileName : K:\#GTO\#SEQ\A25G6\G#A5206.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

Sample #: 206 Page 1 of 1
Date : 4/21/2006 10:08 AM
Time of Injection: 4/16/2006 08:50 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



STL Knoxville - ACS

Client Sample ID: G-3121/3122-R3-MM5 FRONT HALF COMPOSITE BT C

GC Semivolatiles

Lot-Sample #...: H6D030231-010 **Work Order #...:** H2H001AA **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/16/06
Prep Batch #...: 6095031
Dilution Factor: 1 **Method.....:** EPA-18 TCO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**0.22**	**0.050**	**mg**	**0.0050**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	89	(50 - 150)

```
Software Version: 4.1<2F12>
Sample Name  : H2H001AA                          Time  : 4/17/2006  09:47 AM
Sample Number: 189                               Study :
Operator     : Analyst

Instrument   : GTO                      Channel : A     A/D mV Range : 10000
AutoSampler  :
Rack/Vial    : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 4/16/2006  01:33 PM
Delay Time     : 0.00   min.
End Time       : 19.00  min.
Sampling Rate  : 10.0000  pts/sec

Raw Data File    : K:\#GTO\#SEQ\A25G6\G#A5189.RAW
Result File      : K:\#GTO\#SEQ\A25G6\G#A5189.rst
Inst Method      : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5189.rst
Proc Method      : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method     : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File    : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume    : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount    : 1.0000                 Dilution Factor  : 1.00

Noise Threshold: 20          Area Threshold   : 2000     Bunch Factor: 4
Multiplier     : 0.0100      Divisor  : 1.0000       Addend  : 0.0000
User1          :                      User2        :
User3          :                      User4        :
User5          :

Instrument Conditions:
Capillary GC     -
  Instrument     : GC3400TCO
  Column         : J&W DB-1 128-1052
  Column Length  : 50m x 0.20 mm x 0.33um
  Carrier Gas    : Helium
  Flow Rate      : 25 cm/s @ 300C
  Split Ratio    : Splitless >50
  Temperature    : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1     : FID, 350C, 1 x 10-12
  Detector 2     :
  Notes          :

Total number of peaks detected: 36
```

Total Chromatographable Organics (C7-C17)

==========

Trial Burn Sampling and Analysis

==========

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.807		2.4	0.0024	0.24	0.24	21325	100	2	10	2
4.909		19.1	0.0191	1.91	1.91	170452	100	19	76	19
4.948		9.5	0.0095	0.95	0.95	85012	100	10	38	10
5.542		1.8	0.0018	0.18	0.18	15803	100	2	7	2
5.733		7.6	0.0076	0.76	0.76	67470	100	8	30	8
6.128		37.4	0.0374	3.74	3.74	333203	100	37	149	37
6.165		2.1	0.0021	0.21	0.21	18316	100	2	8	2
6.228		15.0	0.0150	1.50	1.50	133700	100	15	60	15
6.293		37.8	0.0378	3.78	3.78	337271	100	38	151	38
6.374		71.7	0.0717	7.17	7.17	639228	100	72	287	72
6.456		1.3	0.0013	0.13	0.13	11255	100	1	5	1
6.612		3.9	0.0039	0.39	0.39	34464	100	4	15	4
6.684		3.3	0.0033	0.33	0.33	29579	100	3	13	3
7.323		1.4	0.0014	0.14	0.14	12592	100	1	6	1
7.458		3.1	0.0031	0.31	0.31	27772	100	3	12	3
10.784		1.5	0.0015	0.15	0.15	13818	100	2	6	2
11.622		1.3	0.0013	0.13	0.13	11244	100	1	5	1
13.194		2.8	0.0028	0.28	0.28	25319	100	3	11	3
13.867	TCO Surrogates	7.4e-93	7.4e-96	7.42e-94	7.4e-94	741940	100	###	###	### 3
		222.9	0.2229	22.29	22.29	2729762				

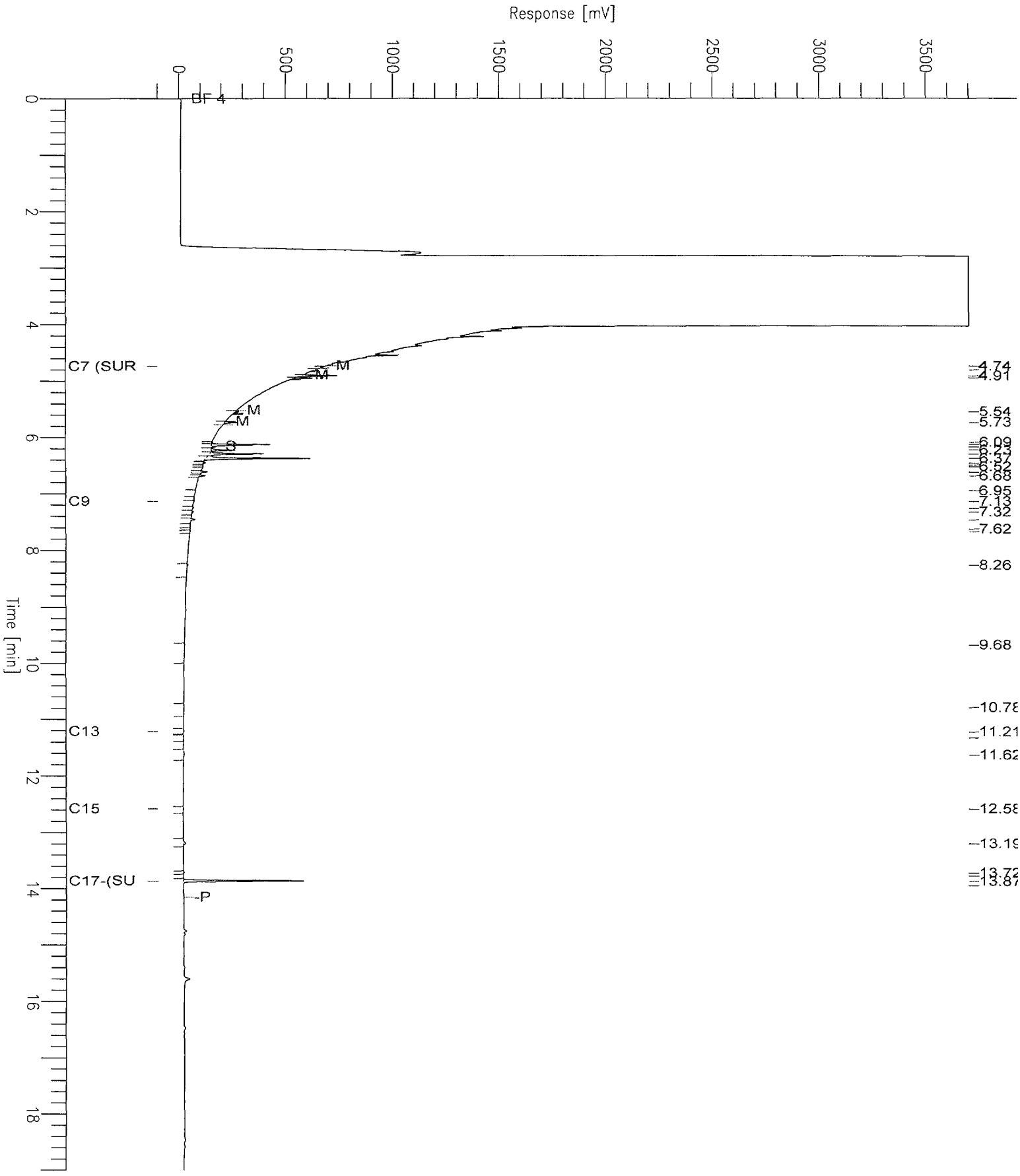
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.738	C7 (SURR) Heptane	0.3	0.0003	0.03	0.03	422	100	0	1	0
13.867	C17-(SURR) Heptadeca	91.9	0.0919	9.19	9.19	741518	100	92	367	92
		92.2	0.0922	9.22	9.22	741940				

Chromatogram

Sample Name : H2H001AA
FileName : K:\#GTO\#SEQ\A25G6\G#A5189.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

Sample #: 189 Page 1 of 1
Date : 4/17/2006 09:47 AM
Time of Injection: 4/16/2006 01:33 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



STL Knoxville - ACS

Client Sample ID: G-3123/3124-R3-MM5 BACK HALF COMPOSITE BT C

GC Semivolatiles

Lot-Sample #...: H6D030231-011	**Work Order #...:** H2H011AA	**Matrix.....:** AIR	
Date Sampled...: 03/29/06	**Date Received..:** 04/02/06		
Prep Date.....: 04/05/06	**Analysis Date..:** 04/16/06		
Prep Batch #...: 6095032			
Dilution Factor: 3	**Method.....:** EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**1.1 B**	**0.15**	**mg**	**0.015**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	93	(50 - 150)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

```
Software Version: 4.1<2F12>
Sample Name   : H2H011AA                          Time   : 4/17/2006  10:02 AM
Sample Number: 197                                Study  :
Operator      : Analyst

Instrument    : GTO                        Channel : A     A/D mV Range : 10000
AutoSampler   :
Rack/Vial     : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 4/16/2006  04:59 PM
Delay Time      : 0.00   min.
End Time        : 19.00  min.
Sampling Rate   : 10.0000  pts/sec

Raw Data File     : K:\#GTO\#SEQ\A25G6\G#A5197.RAW
Result File       : K:\#GTO\#SEQ\A25G6\G#A5197.rst
Inst Method       : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5197.rst
Proc Method       : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method      : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File     : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume     : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount     : 1.0000                 Dilution Factor  : 3.00

Noise Threshold: 20           Area Threshold   : 2000     Bunch Factor: 4
Multiplier      : 0.0100      Divisor  : 1.0000       Addend  : 0.0000
User1           :                      User2         :
User3           :                      User4         :
User5           :

Instrument Conditions:
Capillary GC      -
  Instrument      : GC3400TCO
  Column          : J&W DB-1 128-1052
  Column Length   : 50m x 0.20 mm x 0.33um
  Carrier Gas     : Helium
  Flow Rate       : 25 cm/s @ 300C
  Split Ratio     : Splitless >50
  Temperature     : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1      : FID, 350C, 1 x 10-12
  Detector 2      :
  Notes           :

Total number of peaks detected: 37
```

Total Chromatographable Organics (C7-C17)

==========

Trial Burn Sampling and Analysis

==========

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
4.832		28.0	0.0280	2.80	0.93	83200	100	9	37	28	
4.876		10.6	0.0106	1.06	0.35	31427	100	4	14	11	
5.482		127.1	0.1271	12.71	4.24	377927	100	42	170	127	
5.694		19.5	0.0195	1.95	0.65	58049	100	7	26	20	
6.112		782.2	0.7822	78.22	26.07	2327029	100	261	###	782	
6.186		20.9	0.0209	2.09	0.70	62039	100	7	28	21	
6.254		38.6	0.0386	3.86	1.29	114773	100	13	51	39	
6.336		82.0	0.0820	8.20	2.73	243863	100	27	109	82	
6.581		6.4	0.0064	0.64	0.21	18934	100	2	8	6	
6.656		5.4	0.0054	0.54	0.18	15906	100	2	7	5	
7.308		4.0	0.0040	0.40	0.13	11906	100	1	5	4	
7.447		5.2	0.0052	0.52	0.17	15438	100	2	7	5	
9.009		3.9	0.0039	0.39	0.13	11484	100	1	5	4	
9.572		6.9	0.0069	0.69	0.23	20412	100	2	9	7	
13.868	TCO Surrogates	7.7e-93	7.7e-96	7.72e-94	2.6e-94	257249	100	###	###	###	3
		1140.7	1.1407	114.07	38.02	3649636					

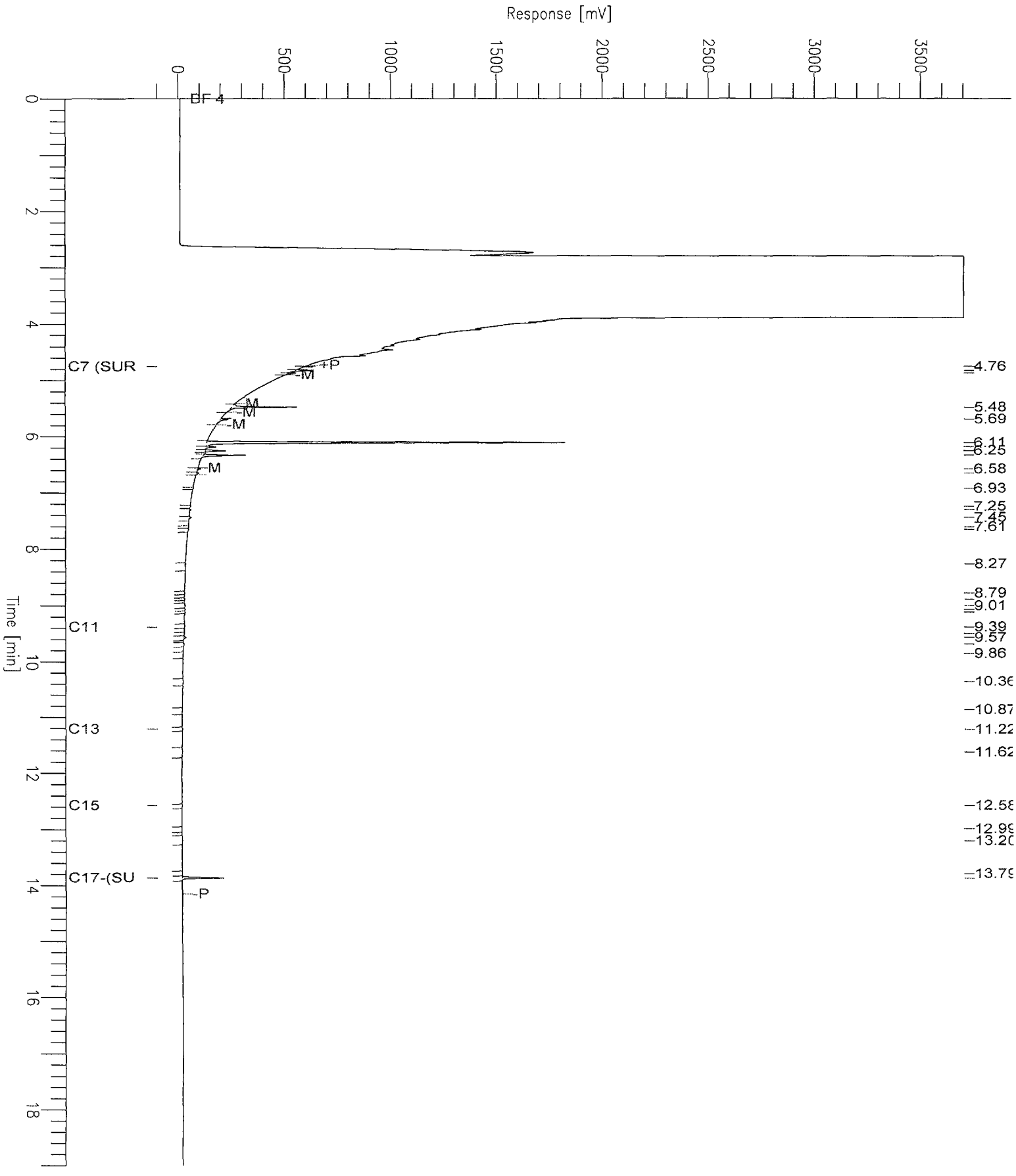
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.757	C7 (SURR) Heptane	0.7	0.0007	0.07	0.02	83	100	0	1	1
13.868	C17-(SURR) Heptadeca	95.7	0.0957	9.57	3.19	257166	100	32	128	96
		96.4	0.0964	9.64	3.21	257249				

Chromatogram

Sample Name : H2H011AA
FileName : K:\#GTO\#SEQ\A25G6\G#A5197.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

Sample #: 197 Page 1 of 1
Date : 4/17/2006 10:02 AM
Time of Injection: 4/16/2006 04:59 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



STL Knoxville - ACS

Client Sample ID: G-3125/3126-R3-MM5 IMPINGER COMPOSITE BT C

GC Semivolatiles

Lot-Sample #...: H6D030231-012	**Work Order #...:** H2H021AA	**Matrix.....:** AIR	
Date Sampled...: 03/29/06	**Date Received..:** 04/02/06		
Prep Date.....: 04/05/06	**Analysis Date..:** 04/16/06		
Prep Batch #...: 6095033			
Dilution Factor: 1	**Method.....:** EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**0.49 B**	**0.050**	**mg**	**0.0070**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	99	(50 - 150)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

```
Software Version: 4.1<2F12>
Sample Name   : H2H021AA                          Time   : 4/17/2006  10:28 AM
Sample Number: 207                                Study  :
Operator      : Analyst

Instrument    : GTO                        Channel : A     A/D mV Range : 10000
AutoSampler   :
Rack/Vial     : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 4/16/2006  09:16 PM
Delay Time      : 0.00   min.
End Time        : 19.00  min.
Sampling Rate   : 10.0000  pts/sec

Raw Data File     : K:\#GTO\#SEQ\A25G6\G#A5207.RAW
Result File       : K:\#GTO\#SEQ\A25G6\G#A5207.rst
Inst Method       : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5207.rst
Proc Method       : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method      : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File     : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume     : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount     : 1.0000                 Dilution Factor  : 1.00

Noise Threshold: 20           Area Threshold   : 2000     Bunch Factor: 4
Multiplier      : 0.0100      Divisor  : 1.0000       Addend  : 0.0000
User1           :                      User2         :
User3           :                      User4         :
User5           :

Instrument Conditions:
Capillary GC      -
  Instrument      : GC3400TCO
  Column          : J&W DB-1 128-1052
  Column Length   : 50m x 0.20 mm x 0.33um
  Carrier Gas     : Helium
  Flow Rate       : 25 cm/s @ 300C
  Split Ratio     : Splitless >50
  Temperature     : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1      : FID, 350C, 1 x 10-12
  Detector 2      :
  Notes           :

Total number of peaks detected: 47
```

Total Chromatographable Organics (C7-C17)

==========

Trial Burn Sampling and Analysis

==========

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.932		45.5	0.0455	4.55	4.55	405328	100	45	182	45
4.970		19.3	0.0193	1.93	1.93	172072	100	19	77	19
5.559		12.2	0.0122	1.22	1.22	108499	100	12	49	12
5.745		12.8	0.0128	1.28	1.28	114006	100	13	51	13
6.101		1.9	0.0019	0.19	0.19	16790	100	2	8	2
6.140		69.7	0.0697	6.97	6.97	621390	100	70	279	70
6.176		11.5	0.0115	1.15	1.15	102379	100	11	46	11
6.237		39.8	0.0398	3.98	3.98	354561	100	40	159	40
6.302		92.9	0.0929	9.29	9.29	828836	100	93	372	93
6.382		145.5	0.1455	14.55	14.55	1297758	100	145	582	145
6.465		2.4	0.0024	0.24	0.24	21311	100	2	10	2
6.618		7.7	0.0077	0.77	0.77	68886	100	8	31	8
6.689		6.7	0.0067	0.67	0.67	59450	100	7	27	7
6.955		1.2	0.0012	0.12	0.12	11094	100	1	5	1
7.122	C9	3.4	0.0034	0.34	0.34	30308	100	3	14	3
7.255		1.8	0.0018	0.18	0.18	16443	100	2	7	2
7.325		4.7	0.0047	0.47	0.47	41819	100	5	19	5
7.461		3.0	0.0030	0.30	0.30	26406	100	3	12	3
7.623		2.2	0.0022	0.22	0.22	19265	100	2	9	2
7.668		2.9	0.0029	0.29	0.29	25446	100	3	11	3
8.252		1.5	0.0015	0.15	0.15	13237	100	1	6	1
11.319		4.7	0.0047	0.47	0.47	42071	100	5	19	5
11.618		2.6	0.0026	0.26	0.26	23153	100	3	10	3
13.190		2.5	0.0025	0.25	0.25	22502	100	3	10	3
13.715		3.1	0.0031	0.31	0.31	27313	100	3	12	3
13.780		1.9	0.0019	0.19	0.19	16536	100	2	7	2
13.867	TCO Surrogates	8.3e-93	8.3e-96	8.26e-94	8.3e-94	825930	100	###	###	### 3
13.944		1.5	0.0015	0.15	0.15	13731	100	2	6	2
		504.6	0.5046	50.46	50.46	5326521				

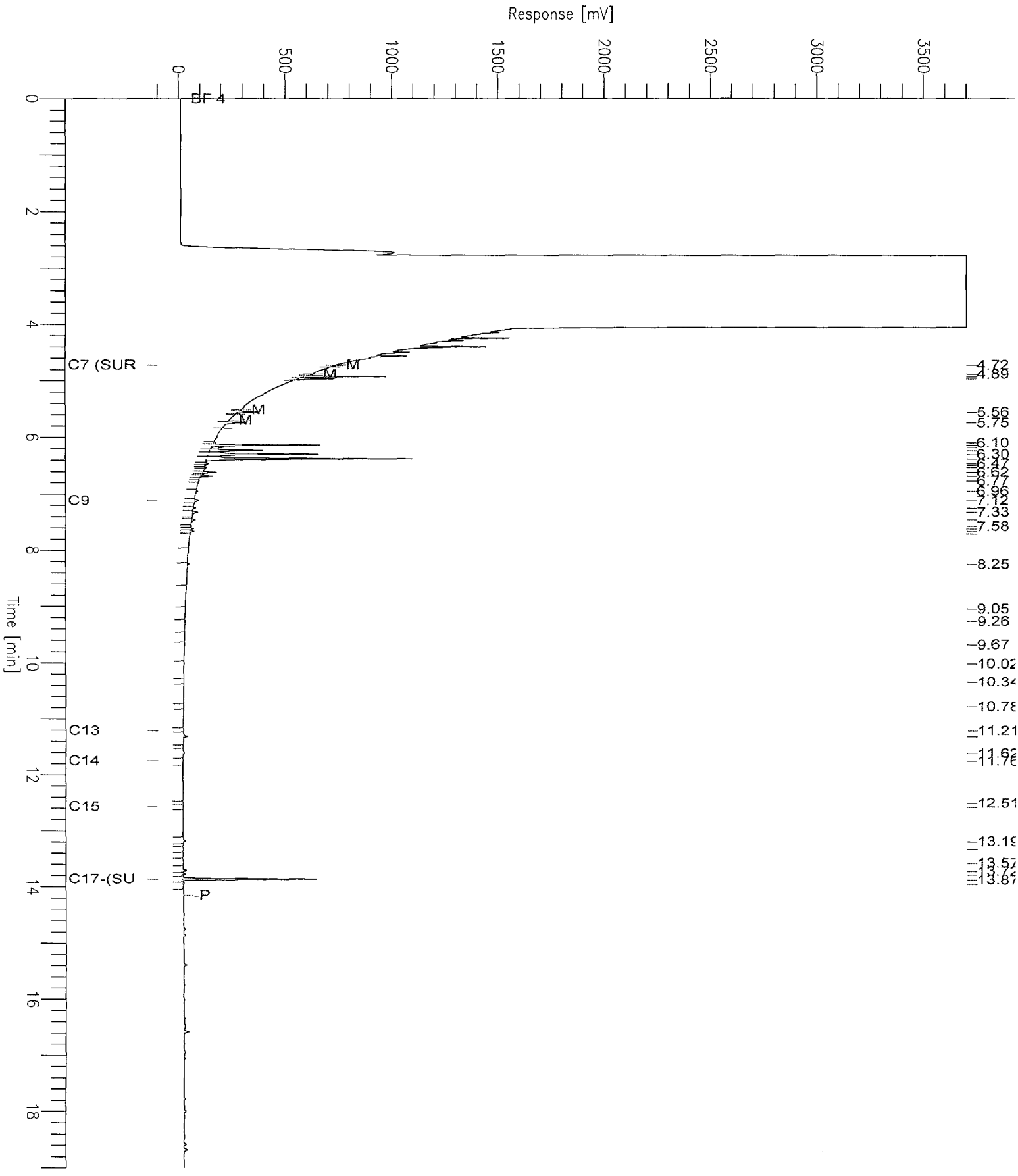
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.723	C7 (SURR) Heptane	1.3	0.0013	0.13	0.13	6270	100	1	5	1
13.867	C17-(SURR) Heptadeca	101.5	0.1015	10.15	10.15	819660	100	102	406	102
		102.8	0.1028	10.28	10.28	825930				

Chromatogram

Sample Name : H2H021AA
FileName : K:\#GTO\#SEQ\A25G6\G#A5207.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

Sample #: 207 Page 1 of 1
Date : 4/17/2006 10:28 AM
Time of Injection: 4/16/2006 09:16 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



STL Knoxville - ACS

Client Sample ID: G-3127-R3-MM5 TRAIN C XAD-2 TRIP/RB

GC Semivolatiles

Lot-Sample #...: H6D030231-013	**Work Order #...:** H2H031AA		**Matrix.....:** AIR
Date Sampled...: 03/30/06	**Date Received..:** 04/02/06		
Prep Date.....: 04/05/06	**Analysis Date..:** 04/16/06		
Prep Batch #...: 6095032			
Dilution Factor: 1	**Method.....:** EPA-18 TCO		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**0.15 B**	**0.050**	**mg**	**0.0050**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	104	(50 - 150)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

```
Software Version: 4.1<2F12>
Sample Name   : H2H031AA                          Time   : 4/17/2006  10:02 AM
Sample Number: 198                                Study  :
Operator      : Analyst

Instrument    : GTO                        Channel : A     A/D mV Range : 10000
AutoSampler   :
Rack/Vial     : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 4/16/2006  05:25 PM
Delay Time      : 0.00   min.
End Time        : 19.00  min.
Sampling Rate   : 10.0000  pts/sec

Raw Data File     : K:\#GTO\#SEQ\A25G6\G#A5198.RAW
Result File       : K:\#GTO\#SEQ\A25G6\G#A5198.rst
Inst Method       : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5198.rst
Proc Method       : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method      : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File     : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume     : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount     : 1.0000                 Dilution Factor  : 1.00

Noise Threshold: 20           Area Threshold   : 2000     Bunch Factor: 4
Multiplier      : 0.0100      Divisor  : 1.0000       Addend  : 0.0000
User1           :                      User2         :
User3           :                      User4         :
User5           :

Instrument Conditions:
Capillary GC      -
  Instrument      : GC3400TCO
  Column          : J&W DB-1 128-1052
  Column Length   : 50m x 0.20 mm x 0.33um
  Carrier Gas     : Helium
  Flow Rate       : 25 cm/s @ 300C
  Split Ratio     : Splitless >50
  Temperature     : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1      : FID, 350C, 1 x 10-12
  Detector 2      :
  Notes           :

Total number of peaks detected: 35
```

Total Chromatographable Organics (C7-C17)

==========

Trial Burn Sampling and Analysis

==========

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
5.437		156.4	0.1564	15.64	15.64	1395290	100	156	626	156
9.079		1.8	0.0018	0.18	0.18	15644	100	2	7	2
9.128		2.2	0.0022	0.22	0.22	19683	100	2	9	2
9.166		1.3	0.0013	0.13	0.13	11815	100	1	5	1
9.388		2.2	0.0022	0.22	0.22	19686	100	2	9	2
9.508		2.1	0.0021	0.21	0.21	19081	100	2	9	2
9.574		5.8	0.0058	0.58	0.58	51706	100	6	23	6
9.686		2.5	0.0025	0.25	0.25	22502	100	3	10	3
13.869	TCO Surrogates	9.6e-93	9.6e-96	9.62e-94	9.6e-94	962282	100	###	###	### 2
		174.4	0.1744	17.44	17.44	2517690				

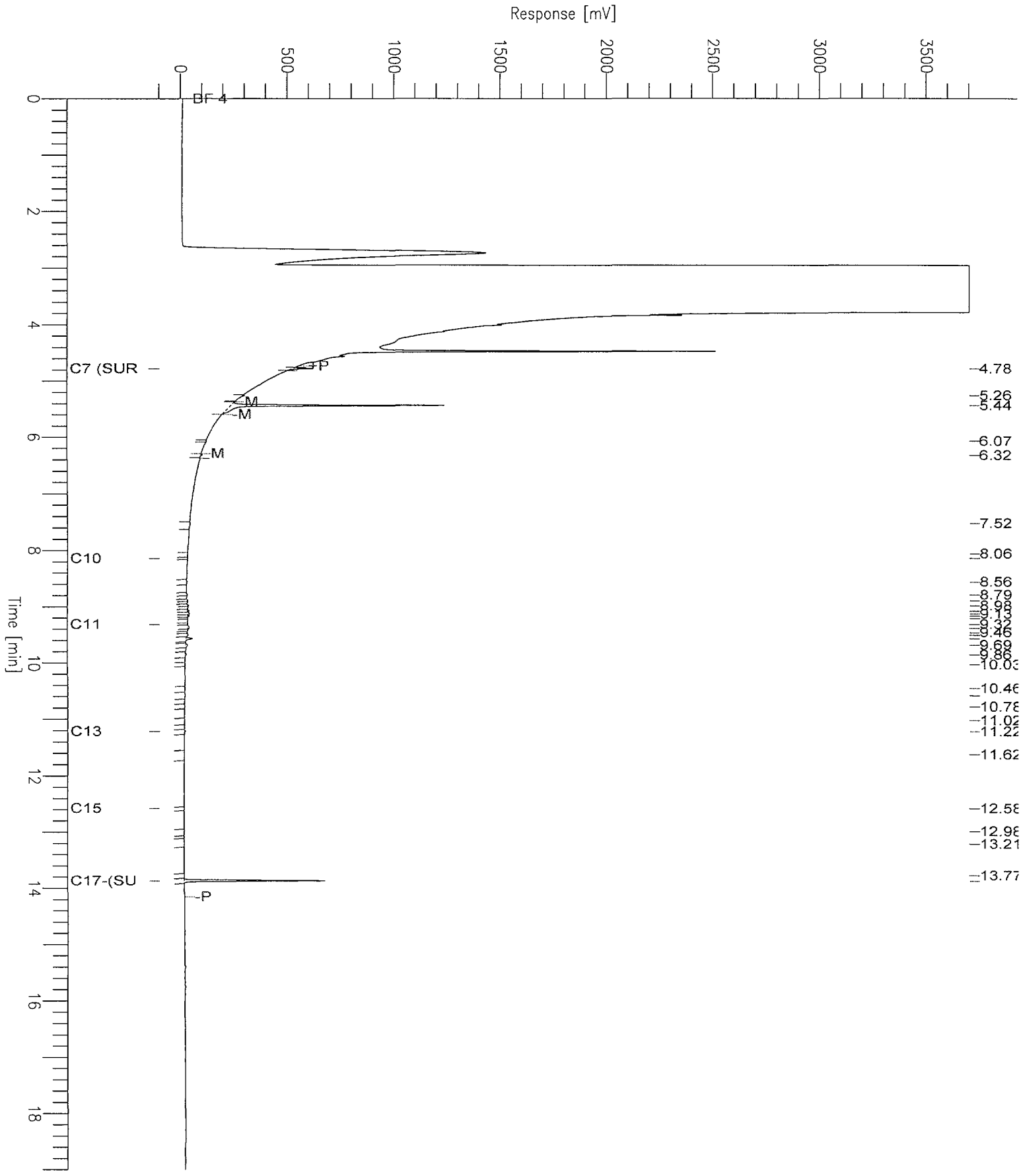
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.779	C7 (SURR) Heptane	16.5	0.0165	1.65	1.65	98908	100	16	66	16
13.869	C17-(SURR) Heptadeca	106.9	0.1069	10.69	10.69	863373	100	107	428	107
		123.4	0.1234	12.34	12.34	962282				

Chromatogram

Sample Name : H2H031AA
FileName : K:\#GTO\#SEQ\A25G6\G#A5198.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

Sample #: 198 Page 1 of 1
Date : 4/17/2006 10:02 AM
Time of Injection: 4/16/2006 05:25 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



STL Knoxville - ACS

Client Sample ID: A-5380 MEDIA CHECK XAD

GC Semivolatiles

Lot-Sample #...: H6D030231-014 **Work Order #...:** H2H051AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/16/06
Prep Batch #...: 6095032
Dilution Factor: 1 **Method.....:** EPA-18 TCO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	ND	0.050	mg	0.0050

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	106	(50 - 150)

```
Software Version: 4.1<2F12>
Sample Name   : H2H051AA                          Time   : 4/17/2006  10:02 AM
Sample Number: 199                                Study  :
Operator      : Analyst

Instrument    : GTO                        Channel : A     A/D mV Range : 10000
AutoSampler   :
Rack/Vial     : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 4/16/2006  05:50 PM
Delay Time      : 0.00   min.
End Time        : 19.00  min.
Sampling Rate   : 10.0000  pts/sec

Raw Data File     : K:\#GTO\#SEQ\A25G6\G#A5199.RAW
Result File       : K:\#GTO\#SEQ\A25G6\G#A5199.rst
Inst Method       : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5199.rst
Proc Method       : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method      : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File     : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume     : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount     : 1.0000                 Dilution Factor  : 1.00

Noise Threshold: 20           Area Threshold   : 2000     Bunch Factor: 4
Multiplier      : 0.0100      Divisor  : 1.0000       Addend  : 0.0000
User1           :                      User2         :
User3           :                      User4         :
User5           :

Instrument Conditions:
Capillary GC      -
  Instrument      : GC3400TCO
  Column          : J&W DB-1 128-1052
  Column Length   : 50m x 0.20 mm x 0.33um
  Carrier Gas     : Helium
  Flow Rate       : 25 cm/s @ 300C
  Split Ratio     : Splitless >50
  Temperature     : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1      : FID, 350C, 1 x 10-12
  Detector 2      :
  Notes           :

Total number of peaks detected: 30
```

Total Chromatographable Organics (C7-C17)

==========

Trial Burn Sampling and Analysis

==========

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
5.271		1.3	0.0013	0.13	0.13	11164	100	1	5	1	
8.902		1.6	0.0016	0.16	0.16	14155	100	2	6	2	
8.990		2.6	0.0026	0.26	0.26	23516	100	3	11	3	
9.075		2.2	0.0022	0.22	0.22	19192	100	2	9	2	
9.505		2.8	0.0028	0.28	0.28	25205	100	3	11	3	
9.584		8.0	0.0080	0.80	0.80	71236	100	8	32	8	
9.691		2.8	0.0028	0.28	0.28	24943	100	3	11	3	
9.853		1.2	0.0012	0.12	0.12	10443	100	1	5	1	
11.014		1.5	0.0015	0.15	0.15	13530	100	2	6	2	
13.880	TCO Surrogates	1.0e-92	1.0e-95	9.98e-94	1.0e-93	997804	100	###	###	###	2
		23.9	0.0239	2.39	2.39	1211187					

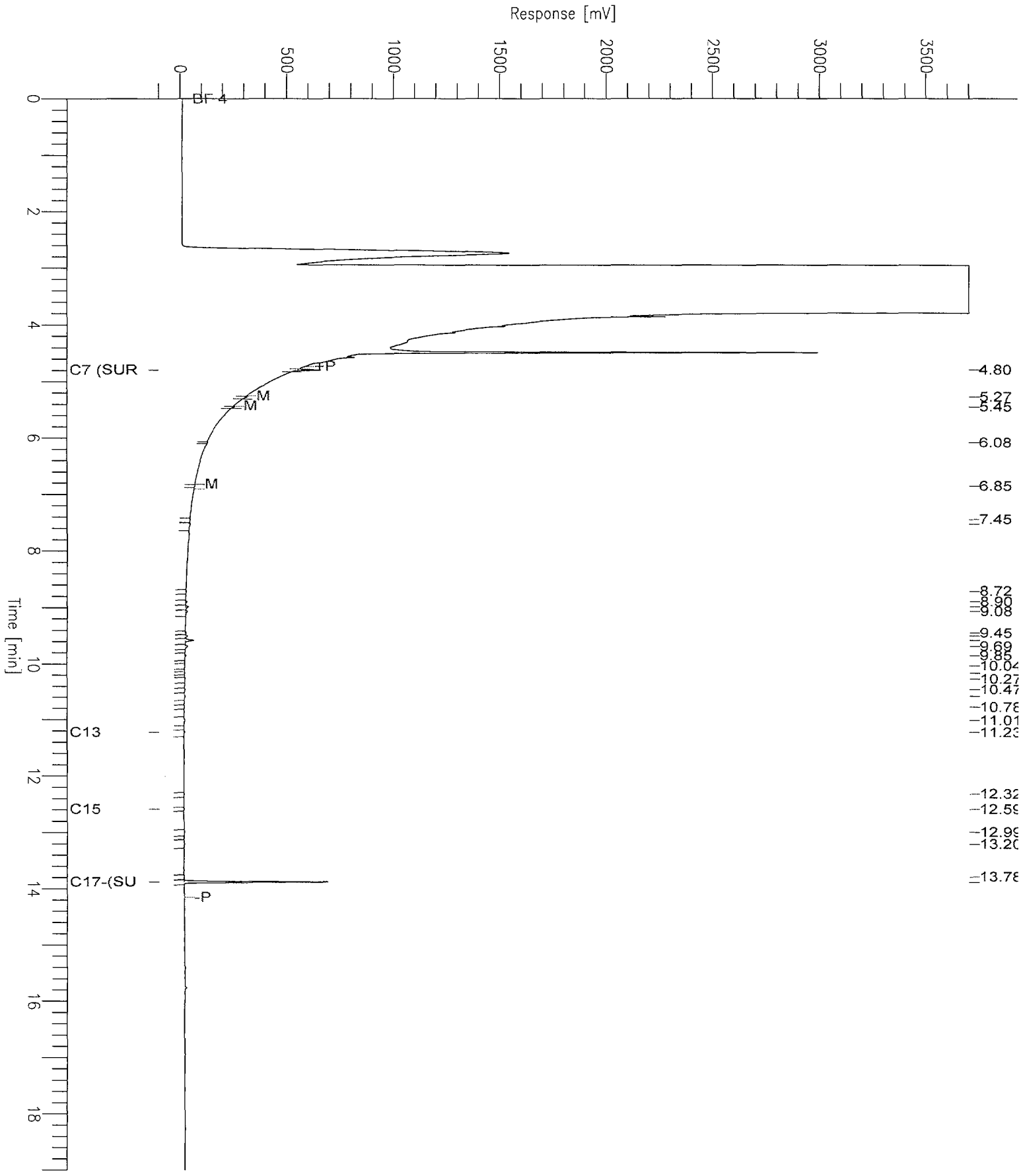
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.796	C7 (SURR) Heptane	19.1	0.0191	1.91	1.91	114926	100	19	76	19
13.880	C17-(SURR) Heptadeca	109.3	0.1093	10.93	10.93	882878	100	109	437	109
		128.4	0.1284	12.84	12.84	997804				

Chromatogram

Sample Name : H2H051AA
FileName : K:\#GTO\#SEQ\A25G6\G#A5199.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

Sample #: 199 Page 1 of 1
Date : 4/17/2006 10:02 AM
Time of Injection: 4/16/2006 05:50 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



STL Knoxville - ACS

Client Sample ID: A-5382 MEDIA CHECK FILTER

GC Semivolatiles

Lot-Sample #...: H6D030231-015 **Work Order #...:** H2H061AA **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/16/06
Prep Batch #...: 6095031
Dilution Factor: 1 **Method.....:** EPA-18 TCO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Chromatographable Organics	**0.0060 J**	**0.050**	**mg**	**0.0050**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	97	(50 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

```
Software Version: 4.1<2F12>
Sample Name   : H2H061AA                          Time   : 4/17/2006  09:47 AM
Sample Number: 190                                Study  :
Operator      : Analyst

Instrument    : GTO                        Channel : A     A/D mV Range : 10000
AutoSampler   :
Rack/Vial     : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 4/16/2006  01:59 PM
Delay Time      : 0.00   min.
End Time        : 19.00  min.
Sampling Rate   : 10.0000  pts/sec

Raw Data File     : K:\#GTO\#SEQ\A25G6\G#A5190.RAW
Result File       : K:\#GTO\#SEQ\A25G6\G#A5190.rst
Inst Method       : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5190.rst
Proc Method       : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method      : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File     : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume     : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount     : 1.0000                 Dilution Factor  : 1.00

Noise Threshold: 20           Area Threshold   : 2000     Bunch Factor: 4
Multiplier      : 0.0100      Divisor  : 1.0000       Addend  : 0.0000
User1           :                      User2        :
User3           :                      User4        :
User5           :

Instrument Conditions:
Capillary GC      -
  Instrument      : GC3400TCO
  Column          : J&W DB-1 128-1052
  Column Length   : 50m x 0.20 mm x 0.33um
  Carrier Gas     : Helium
  Flow Rate       : 25 cm/s @ 300C
  Split Ratio     : Splitless >50
  Temperature     : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1      : FID, 350C, 1 x 10-12
  Detector 2      :
  Notes           :

Total number of peaks detected: 14
```

Total Chromatographable Organics (C7-C17)

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
10.784		1.2	0.0012	0.12	0.12	10951	100	1	5	1	
11.311		1.8	0.0018	0.18	0.18	15849	100	2	7	2	
11.623		2.0	0.0020	0.20	0.20	17399	100	2	8	2	
13.198		1.9	0.0019	0.19	0.19	16536	100	2	7	2	
13.868	TCO Surrogates	9.4e-93	9.4e-96	9.35e-94	9.4e-94	935112	100	###	###	###	3
13.946		1.8	0.0018	0.18	0.18	16129	100	2	7	2	
		8.6	0.0086	0.86	0.86	1011977					

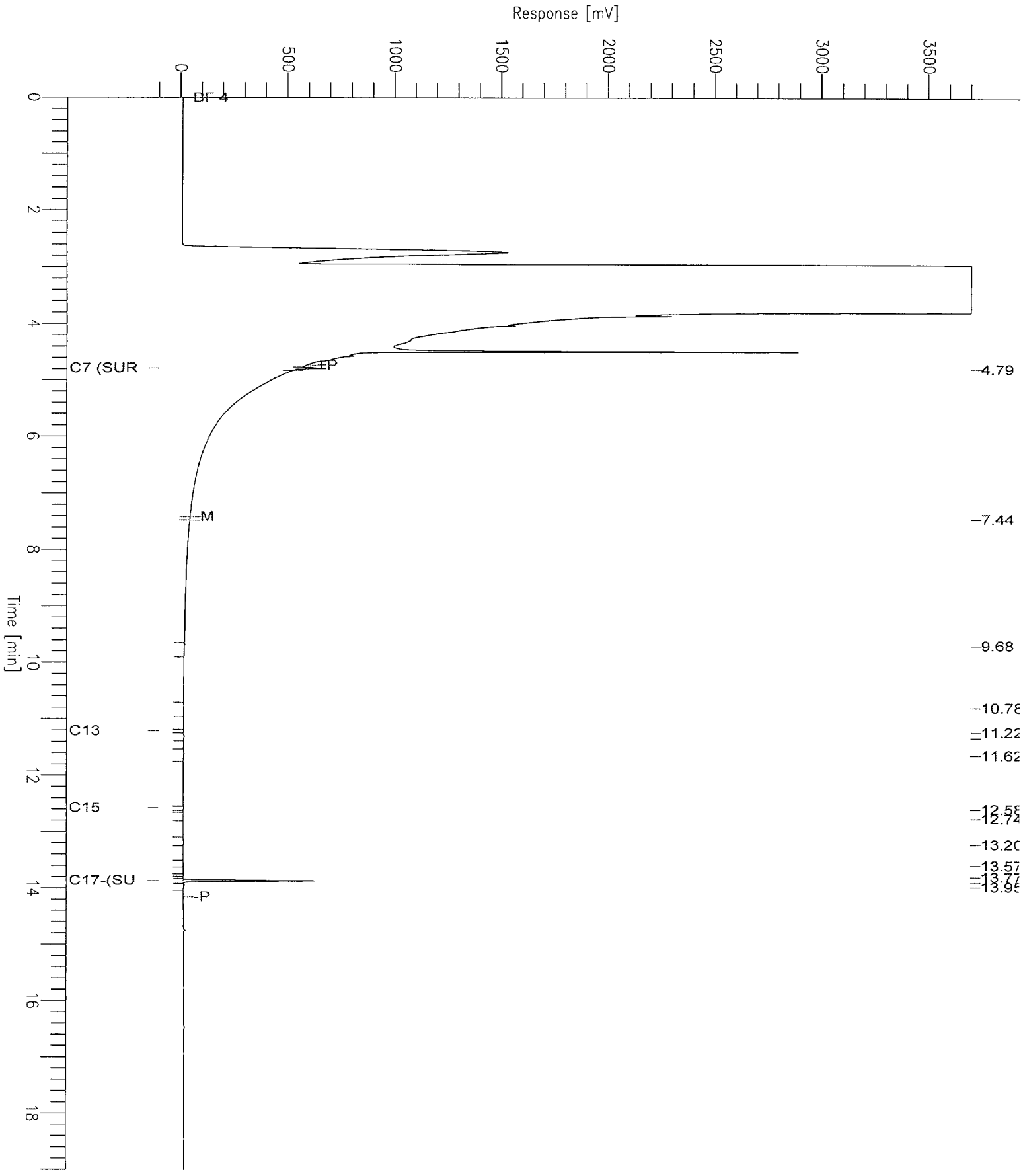
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.792	C7 (SURR) Heptane	21.9	0.0219	2.19	2.19	132563	100	22	88	22
13.868	C17-(SURR) Heptadeca	99.4	0.0994	9.94	9.94	802550	100	99	398	99
		121.4	0.1214	12.14	12.14	935112				

Chromatogram

Sample Name : H2H061AA
FileName : K:\#GTO\#SEQ\A25G6\G#A5190.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

Sample #: 190 Page 1 of 1
Date : 4/17/2006 09:47 AM
Time of Injection: 4/16/2006 01:59 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



TCO Standards Data

STL Knoxville Initial Calibration Data Review / Narrative Checklist
TCO/GRAV Analysis, SOP KNOX-GC-0010, Rev. 2
Page 1 of 1

Analysis Date:	1-25-06	Instrument/File ID:	TC00125

Review Items A. Initial Calibration	Yes	No	N/A	2nd Level	If No, why is data reportable?
1. Were at least **5 levels** of standards analyzed?	✓			✓	
2. Were **all ICAL standards used** for calibration?	✓			✓	
3. Is **low** level standard concentration ≤ **RL**?	✓			✓	
4. Was **correlation coefficient ≥ 0.995**?	✓			✓	
5. Was each run checked for **saturation**?	✓			✓	
6. Is **integration** acceptable and were all manual integrations properly documented?	✓			✓	
7. Was ICAL method file processed using the **correct result files**? (Compare peak heights-areas in method file to heights-areas of calibration standards.)	✓			✓	

Analyst: MOP Date: 1-26-06

Comments:

2nd Level Reviewer: KRM Date: 1/26/06

Comments:

TC00125.SEQ **STL GC /GT0 TCO RUN LOG VARIAN3400**

ANALYST: mcl

PREVENTATIVE MAINTENANCE PERFORMED: (Y) OR N

TCO	Inj. Date	Inj. Time	File Name				C17-(SURR) Heptadecane Ret. Time [min.]	DIL. FACTOR
	1/25/2006	12:54	G#A5001.rst	1		PRIME	13.87	1.0
	1/25/2006	01:20	G#A5002.rst	2		BLANK	13.75	1.0
	1/25/2006	01:46	G#A5003.rst	3	ICAL 3-07-06	AI2409 150 PPM	13.85	1.0
	1/25/2006	02:11	G#A5004.rst	4	ICAL 3-07-06	AI2408 60 PPM	13.85	1.0
	1/25/2006	02:37	G#A5005.rst	5	ICAL 3-07-06	AI2407 30 PPM	13.85	1.0
	1/25/2006	03:03	G#A5006.rst	6	ICAL 3-07-06	AI2406 15 PPM	13.85	1.0
	1/25/2006	03:29	G#A5007.rst	7	ICAL 3-07-06	AI2405 6.0 PPM	13.85	1.0
	1/25/2006	03:54	G#A5008.rst	8	ICAL 3-07-06	AI2404 0.6 PPM	13.85	1.0
	1/25/2006	04:20	G#A5009.rst	9	2ND SOURCE	AI2187 30 PPM	13.84	1.0
	1/25/2006	04:46	G#A5010.rst	10	AI2402	STD CHECK	13.74	1.0
	1/25/2006	05:12	G#A5011.rst	11	AI2401	SURR CHECK	13.84	1.0
	1/25/2006	05:37	G#A5012.rst	12		AI2407 30 PPM	13.84	1.0
	1/30/2006	01:36	G#A5013.rst	13			13.76	1.0
	1/30/2006	02:02	G#A5014.rst	14	CCV	AI2407 30PPM	13.87	1.0
	1/30/2006	02:28	G#A5015.rst	15	MDL XAD	BB5508	13.86	1.0
	1/30/2006	02:54	G#A5016.rst	16	MDL FILTER	BB5509	13.87	1.0
	1/30/2006	03:19	G#A5017.rst	17	MDL COND	BB5510	13.86	1.0
	1/30/2006	03:45	G#A5018.rst	18	BLANK XAD	BB5514	13.86	1.0
	1/30/2006	04:11	G#A5019.rst	19	BLANK FILTER	BB5515	13.86	1.0
	1/30/2006	04:37	G#A5020.rst	20	BLANK COND	BB5516	13.87	1.0
	1/30/2006	05:02	G#A5021.rst	21		HV7QJ1AA	13.86	1.0
	1/30/2006	05:28	G#A5022.rst	22		HV7QJ1AA	13.87	5.0
	1/30/2006	05:54	G#A5023.rst	23		HV7QT1AA	13.86	1.0
	1/30/2006	06:20	G#A5024.rst	24	BLK	HV9411AAB	13.86	1.0
	1/30/2006	06:45	G#A5025.rst	25	LCS	HV9411ACC	13.86	1.0
	1/30/2006	07:11	G#A5026.rst	26	LCS DUP	HV9411ADL	13.87	1.0
	1/30/2006	07:37	G#A5027.rst	27	CCV	AI2407 30PPM	13.86	1.0
	2/6/2006	10:07	G#A5028.rst	28		BLANK	13.76	1.0
	2/6/2006	10:32	G#A5029.rst	29	CCV	AI2407 30PPM	13.86	1.0
	2/6/2006	10:58	G#A5030.rst	30		HWHOD1AA	13.85	1.0
	2/6/2006	11:24	G#A5031.rst	31		HWHOV1AA	13.86	1.0
	2/6/2006	11:49	G#A5032.rst	32		HWH001AA	13.85	1.0
	2/6/2006	12:15	G#A5033.rst	33	BLK	HWJ681AAB	13.85	1.0
	2/6/2006	12:41	G#A5034.rst	34	LCS	HWJ681ACC	13.85	1.0
	2/6/2006	01:06	G#A5035.rst	35	LCS DUP	HWJ681ADL	13.86	1.0
	2/6/2006	01:32	G#A5036.rst	36	CCV	AI2407 30PPM	13.85	1.0
	2/6/2006	02:10	G#A5037.rst	37		HWHOD1AA	13.85	5.0
	2/6/2006	02:35	G#A5038.rst	38		HWHOV1AA	13.85	3.0
	2/6/2006	03:01	G#A5039.rst	39	CCV	AI2407 30PPM	13.85	1.0
	2/9/2006	08:03	G#A5040.rst	40		BLANK	13.76	1.0
	2/9/2006	08:29	G#A5041.rst	41	CCV	AI2407 30PPM	13.85	1.0
	2/9/2006	08:54	G#A5042.rst	42		HWW6E1AA	13.84	1.0
	2/9/2006	09:20	G#A5043.rst	43	CCV	AI2407 30PPM	13.86	1.0
	2/13/2006	04:01	G#A5044.rst	44		BLANK	13.74	1.0
	2/13/2006	04:27	G#A5045.rst	45	CCV	AI2407 30PPM	13.85	1.0
	2/13/2006	04:53	G#A5046.rst	46		HW4RH1AAB	13.84	1.0
	2/13/2006	05:19	G#A5047.rst	47		HW4RH1ACC	13.85	1.0
	2/13/2006	05:44	G#A5048.rst	48		HW4RH1ADL	13.84	1.0
	2/13/2006	06:10	G#A5049.rst	49		HW2L91AA	13.84	1.0
	2/13/2006	06:36	G#A5050.rst	50		HW2MA1AA	13.84	1.0
	2/13/2006	07:01	G#A5051.rst	51		HW2MC1AA	13.85	1.0
	2/13/2006	07:27	G#A5052.rst	52		HW2MK1AA	13.92	100.0
	2/14/2006	10:44	G#A5053.rst	53		BLANK	13.76	1.0
	2/14/2006	11:09	G#A5054.rst	54	CCV	AI2407 30PPM	13.85	1.0
	2/14/2006	11:35	G#A5055.rst	55		HW4RH1AAB	13.84	1.0
	2/14/2006	12:01	G#A5056.rst	56		HW4RH1ACC	13.84	1.0
	2/14/2006	01:03	G#A5057.rst	57		HW4RH1ADL	13.86	1.0
	2/14/2006	02:07	G#A5058.rst	58		HW2L91AA	13.85	10.0
	2/14/2006	02:33	G#A5059.rst	59		HW2MA1AA	13.84	10.0
	2/14/2006	02:59	G#A5060.rst	60		HW2MC1AA	13.84	10.0
	2/14/2006	03:25	G#A5061.rst	61		HW2MC1AA	13.86	50.0
	2/14/2006	03:51	G#A5062.rst	62		HW2MK1AA	13.84	20.0
	2/14/2006	04:16	G#A5063.rst	63	CCV	AI2407 30PPM	13.85	1.0
	2/24/2006	03:54	G#A5064.rst	64		BLANK	13.76	1.0
	2/24/2006	04:20	G#A5065.rst	65	CCV	AI2407 30PPM	13.86	1.0
	2/24/2006	04:46	G#A5066.rst	66	BLK	HXQXR1AAB	13.85	1.0
	2/24/2006	05:11	G#A5067.rst	67	LCS	HXQXR1ACC	13.85	1.0
	2/24/2006	05:37	G#A5068.rst	68	LCS DUP	HXQXR1ADL	13.84	1.0
	2/24/2006	06:03	G#A5069.rst	69		HXN2T1AA	13.85	1.0
	2/24/2006	06:28	G#A5070.rst	70		HXN2T1AA	13.84	5.0
	2/24/2006	06:54	G#A5071.rst	71		HXN3A1AA	13.85	1.0

2/24/2006	07:20	G#A5072.rst	72		HXN3A1AA	13.84	5.0
2/24/2006	07:45	G#A5073.rst	73		HXN3E1AA	13.85	1.0
2/24/2006	08:11	G#A5074.rst	74		HXN3E1AA	13.84	5.0
2/24/2006	08:37	G#A5075.rst	75		HXN3R1AA	13.84	1.0
2/24/2006	09:02	G#A5076.rst	76	CCV	AI2407 30PPM	13.84	1.0
3/1/2006	10:20	G#A5077.rst	77		BLANK	13.76	1.0
3/1/2006	10:45	G#A5078.rst	78	CCV	AI2407 30PPM	13.86	1.0
3/1/2006	11:11	G#A5079.rst	79		HX3RG1AA	13.86	1.0
3/1/2006	11:37	G#A5080.rst	80	CCV	AI2407 30PPM	13.87	1.0
3/22/2006	02:32	G#A5081.rst	81		BLANK	13.75	1.0
3/22/2006	02:58	G#A5082.rst	82	CCV	AI2407 30PPM	13.85	1.0
3/22/2006	03:24	G#A5083.rst	83	BLK	H1C091AAB	13.85	1.0
3/22/2006	03:49	G#A5084.rst	84	LCS	H1C091ACC	13.86	1.0
3/22/2006	04:15	G#A5085.rst	85	LCS DUP	H1C091ADL	13.85	1.0
3/22/2006	04:41	G#A5086.rst	86		H09L81AA	13.85	1.0
3/22/2006	05:06	G#A5087.rst	87		H09MJ1AA	13.85	1.0
3/22/2006	05:32	G#A5088.rst	88		H09ML1AA	13.85	1.0
3/22/2006	05:57	G#A5089.rst	89		H09MP1AA	13.85	1.0
3/22/2006	06:23	G#A5090.rst	90		H09MV1AA	13.84	1.0
3/22/2006	06:48	G#A5091.rst	91		H09M11AA	13.84	1.0
3/22/2006	07:14	G#A5092.rst	92	CCV	AI2407 30PPM	13.85	1.0
3/23/2006	03:36	G#A5093.rst	93		BLANK	13.75	1.0
3/23/2006	04:02	G#A5094.rst	94	CCV	AI2407 30PPM	13.86	1.0
3/23/2006	04:27	G#A5095.rst	95		H1A4L1AA	13.85	1.0
3/23/2006	04:53	G#A5096.rst	96		H1A441AA	13.86	1.0
3/23/2006	05:19	G#A5097.rst	97		H1A5G1AA	13.85	1.0
3/23/2006	05:44	G#A5098.rst	98		H1CVW1AA	13.85	1.0
3/23/2006	06:10	G#A5099.rst	99		H1CXT1AA	13.85	1.0
3/23/2006	06:35	G#A5100.rst	100		H1MCK1AAB	13.85	1.0
3/23/2006	07:01	G#A5101.rst	101		H1MCK1ACC	13.85	1.0
3/23/2006	07:26	G#A5102.rst	102		H1MCK1ADL	13.85	1.0
3/23/2006	07:52	G#A5103.rst	103		H1A401AA	13.85	1.0
3/23/2006	08:18	G#A5104.rst	104		H1CVT1AA	13.85	1.0
3/23/2006	08:43	G#A5105.rst	105		H1CV01AA	13.85	1.0
3/23/2006	09:09	G#A5106.rst	106		H1CXQ1AA	13.85	1.0
3/23/2006	09:34	G#A5107.rst	107		H1MCT1AAB	13.85	1.0
3/23/2006	10:00	G#A5108.rst	108		H1MCT1ACC	13.86	1.0
3/23/2006	10:26	G#A5109.rst	109		H1MCT1ADL	13.85	1.0
3/23/2006	10:51	G#A5110.rst	110	CCV	AI2407 30PPM	13.86	1.0
3/23/2006	11:17	G#A5111.rst	111		H1A421AA	13.85	1.0
3/23/2006	11:43	G#A5112.rst	112		H1A491AA	13.86	1.0
3/24/2006	12:08	G#A5113.rst	113		H1CVV1AA	13.85	1.0
3/24/2006	12:34	G#A5114.rst	114		H1CV11AA	13.86	1.0
3/24/2006	12:59	G#A5115.rst	115		H1MC51AAB	13.85	1.0
3/24/2006	01:25	G#A5116.rst	116		H1MC51ACC	13.85	1.0
3/24/2006	01:50	G#A5117.rst	117		H1MC51ADL	13.85	1.0
3/24/2006	02:16	G#A5118.rst	118	CCV	AI2407 30PPM	13.85	1.0
3/24/2006	03:19	G#A5119.rst	119		BLANK	13.84	1.0
3/24/2006	03:44	G#A5120.rst	120	CCV	AI2407 30PPM	13.86	1.0
3/24/2006	04:10	G#A5121.rst	121		H09L81AA	13.85	5.0
3/24/2006	04:36	G#A5122.rst	122		H09MJ1AA	13.86	2.0
3/24/2006	05:01	G#A5123.rst	123		H09MP1AA	13.85	10.0
3/24/2006	05:27	G#A5124.rst	124		H1CVT1AA	13.85	3.0
3/24/2006	05:53	G#A5125.rst	125		H1CV01AA	13.85	3.0
3/24/2006	06:19	G#A5126.rst	126		H1A491AA	13.85	10.0
3/24/2006	06:44	G#A5127.rst	127		H1CVV1AA	13.85	10.0
3/24/2006	07:10	G#A5128.rst	128		H1CV11AA	13.85	5.0
3/24/2006	07:36	G#A5129.rst	129	CCV	AI2407 30PPM	13.85	1.0
3/28/2006	04:10	G#A5130.rst	130		BLANK	13.75	1.0
3/28/2006	04:36	G#A5131.rst	131	CCV	AI2407 30PPM	13.87	1.0
3/28/2006	05:01	G#A5132.rst	132		H1M8H1AC	13.85	1.0
3/28/2006	05:27	G#A5133.rst	133		H1M8J1AC	13.86	1.0
3/28/2006	05:53	G#A5134.rst	134		H1M8L1AC	13.85	1.0
3/28/2006	06:18	G#A5135.rst	135		H1M8T1AC	13.86	1.0
3/28/2006	06:44	G#A5136.rst	136		H1M871AC	13.85	1.0
3/28/2006	07:10	G#A5137.rst	137		H1M9D1AC	13.86	1.0
3/28/2006	07:35	G#A5138.rst	138		H1M9P1AA	13.86	1.0
3/28/2006	08:01	G#A5139.rst	139		H1PCQ1AAB	13.85	1.0
3/28/2006	08:27	G#A5140.rst	140		H1PCQ1ACC	13.85	1.0
3/28/2006	08:52	G#A5141.rst	141		H1PCQ1ADL	13.86	1.0
3/28/2006	09:18	G#A5142.rst	142	CCV	AI2407 30PPM	13.85	1.0
3/29/2006	10:43	G#A5143.rst	143		BLANK	13.75	1.0
3/29/2006	11:09	G#A5144.rst	144	CCV	AI2407 30PPM	13.86	1.0
3/29/2006	11:35	G#A5145.rst	145		H1M8H1AC	13.85	5.0
3/29/2006	12:00	G#A5146.rst	146		H1M8J1AC	13.85	40.0
3/29/2006	12:26	G#A5147.rst	147		H1M8L1AC	13.86	40.0
3/29/2006	12:52	G#A5148.rst	148		H1M8T1AC	13.85	40.0
3/29/2006	01:18	G#A5149.rst	149	CCV	AI2407 30PPM	13.85	1.0
3/30/2006	12:57	G#A5150.rst	150		BLANK	13.75	1.0
3/30/2006	01:23	G#A5151.rst	151	CCV	AI2407 30PPM	13.85	1.0
3/30/2006	01:48	G#A5152.rst	152		H1M8L1AC	13.85	20.0
3/30/2006	02:14	G#A5153.rst	153		H1M8T1AC	13.87	100.0
3/30/2006	02:40	G#A5154.rst	154	CCV	AI2407 30PPM	13.85	1.0
4/14/2006	03:57	G#A5155.rst	155		PRIME	13.89	1.0
4/14/2006	04:23	G#A5156.rst	156		BLANK	13.78	1.0
4/14/2006	04:48	G#A5157.rst	157	CCV	AI2407 30PPM	13.87	1.0
4/14/2006	05:14	G#A5158.rst	158		H2H0E1AA	13.87	1.0
4/14/2006	05:40	G#A5159.rst	159		H2H0J1AA	13.87	1.0
4/14/2006	06:06	G#A5160.rst	160		H2H0R1AA	13.88	1.0
4/14/2006	06:32	G#A5161.rst	161		H2H001AA	13.87	1.0
4/14/2006	06:57	G#A5162.rst	162		H2H061AA	13.88	1.0

4/14/2006	07:23	G#A5163.rst	163	BLK	H2LT31AAB	13.87	1.0
4/14/2006	07:49	G#A5164.rst	164	LCS	H2LT31ACC	13.88	1.0
4/14/2006	08:15	G#A5165.rst	165	LCS DUP	H2LT31ADL	13.87	1.0
4/14/2006	08:41	G#A5166.rst	166		H2H0G1AA	13.88	1.0
4/14/2006	09:06	G#A5167.rst	167		H2H0M1AA	13.87	1.0
4/14/2006	09:32	G#A5168.rst	168		H2H0W1AA	13.88	1.0
4/14/2006	09:58	G#A5169.rst	169		H2H011AA	13.86	1.0
4/14/2006	10:24	G#A5170.rst	170		H2H031AA	13.87	1.0
4/14/2006	10:49	G#A5171.rst	171		H2H051AA	13.87	1.0
4/14/2006	11:15	G#A5172.rst	172	BLK	H2LT21AAB	13.86	1.0
4/14/2006	11:41	G#A5173.rst	173	LCS	H2LT21ACC	13.87	1.0
4/15/2006	12:06	G#A5174.rst	174	LCS DUP	H2LT21ADL	13.86	1.0
4/15/2006	12:32	G#A5175.rst	175	CCV	AI2407 30PPM	13.87	1.0
4/15/2006	12:58	G#A5176.rst	176		H2H0H1AA	13.86	1.0
4/15/2006	01:23	G#A5177.rst	177		H2H0N1AA	13.86	1.0
4/15/2006	01:49	G#A5178.rst	178		H2H0X1AA	13.87	1.0
4/15/2006	02:14	G#A5179.rst	179		H2H021AA	13.86	1.0
4/15/2006	02:40	G#A5180.rst	180	BLK	H2LT11AAB	13.87	1.0
4/15/2006	03:06	G#A5181.rst	181	LCS	H2LT11ACC	13.87	1.0
4/15/2006	03:31	G#A5182.rst	182	LCS DUP	H2LT11ADL	13.87	1.0
4/15/2006	03:57	G#A5183.rst	183	CCV	AI2407 30PPM	13.86	1.0
4/16/2006	11:24	G#A5184.rst	184		BLANK	13.77	1.0
4/16/2006	11:50	G#A5185.rst	185	CCV	AI2407 30PPM	13.87	1.0
4/16/2006	12:16	G#A5186.rst	186		H2H0E1AA	13.87	1.0
4/16/2006	12:42	G#A5187.rst	187		H2H0J1AA	13.87	1.0
4/16/2006	01:07	G#A5188.rst	188		H2H0R1AA	13.87	1.0
4/16/2006	01:33	G#A5189.rst	189		H2H001AA	13.87	1.0
4/16/2006	01:59	G#A5190.rst	190		H2H061AA	13.87	1.0
4/16/2006	02:24	G#A5191.rst	191	BLK	H2LT31AAB	13.87	1.0
4/16/2006	02:50	G#A5192.rst	192	LCS	H2LT31ACC	13.87	1.0
4/16/2006	03:16	G#A5193.rst	193	LCS DUP	H2LT31ADL	13.88	1.0
4/16/2006	03:42	G#A5194.rst	194		H2H0G1AA	13.87	10.0
4/16/2006	04:07	G#A5195.rst	195		H2H0M1AA	13.88	5.0
4/16/2006	04:33	G#A5196.rst	196		H2H0W1AA	13.87	3.0
4/16/2006	04:59	G#A5197.rst	197		H2H011AA	13.87	3.0
4/16/2006	05:25	G#A5198.rst	198		H2H031AA	13.87	1.0
4/16/2006	05:50	G#A5199.rst	199		H2H051AA	13.88	1.0
4/16/2006	06:16	G#A5200.rst	200	BLK	H2LT21AAB	13.87	1.0
4/16/2006	06:42	G#A5201.rst	201	LCS	H2LT21ACC	13.87	1.0
4/16/2006	07:07	G#A5202.rst	202	LCS DUP	H2LT21ADL	13.87	1.0
4/16/2006	07:33	G#A5203.rst	203	CCV	AI2407 30PPM	13.87	1.0
4/16/2006	07:59	G#A5204.rst	204		H2H0H1AA	13.87	2.5
4/16/2006	08:25	G#A5205.rst	205		H2H0N1AA	13.87	2.2
4/16/2006	08:50	G#A5206.rst	206		H2H0X1AA	13.87	2.3
4/16/2006	09:16	G#A5207.rst	207		H2H021AA	13.87	1.0
4/16/2006	09:42	G#A5208.rst	208	BLK	H2LT11AAB	13.87	1.0
4/16/2006	10:07	G#A5209.rst	209	LCS	H2LT11ACC	13.88	1.0
4/16/2006	10:33	G#A5210.rst	210	LCS DUP	H2LT11ADL	13.87	1.0
4/16/2006	10:59	G#A5211.rst	211	CCV	AI2407 30PPM	13.87	1.0
4/21/2006	10:01	G#A5212.rst	212		BLANK	13.78	1.0
4/21/2006	10:27	G#A5213.rst	213	CCV	AI2407 30PPM	13.87	1.0
4/21/2006	10:52	G#A5214.rst	214		H2LFG1AA	13.86	1.0
4/21/2006	11:18	G#A5215.rst	215		H2LFV1AA	13.87	1.0
4/21/2006	11:43	G#A5216.rst	216		H2LF31AA	13.86	1.0
4/21/2006	12:09	G#A5217.rst	217		H2LF51AA	13.86	1.0
4/21/2006	12:35	G#A5218.rst	218		H2LGE1AA	13.86	1.0
4/21/2006	01:00	G#A5219.rst	219	BLK	H2W5W1AAB	13.86	1.0
4/21/2006	01:26	G#A5220.rst	220	LCS	H2W5W1ACC	13.87	1.0
4/21/2006	01:52	G#A5221.rst	221	LCS DUP	H2W5W1ADL	13.86	1.0
4/21/2006	02:17	G#A5222.rst	222	CCV	AI2407 30PPM	13.87	1.0
4/21/2006	02:44	G#A5223.rst	223		H2LFG1AA	13.87	50.0
4/21/2006	03:09	G#A5224.rst	224		H2LFV1AA	13.87	25.0
4/21/2006	03:35	G#A5225.rst	225		H2LF31AA	13.87	25.0
4/21/2006	04:01	G#A5226.rst	226	CCV	AI2407 30PPM	13.87	1.0

Turbochrom Method File : K:\#GTO\#MTHCALB\TC00125.MTH
Created by : manager on : 1/26/2006 07:57 AM
Edited by : analyst on : 1/26/2006 08:03 AM
Description : TCO Analysis of Trial Burn Samples

Number of Times Edited : 4
Number of Times Calibrated : 293

Global Information :

Default Sample Volume : 1.000 ul
Quantitation Units : ng
Void Time : 0.000 min
Correct amounts during calibration : YES
Reject outliers during calibration : NO
An External Standard calibration will be used
Unknown peaks will use the response factor of the nearest reference peak

Component Information :

C7 (SURR) Heptane

Component Type : Single Peak Component
Retention Time : 4.746 min Search Window: 3.00 s, 0.00 %
Reference Component:
Find largest peak in window
Calibrating Area versus Amount using a 2nd Order Fit
Curve will include the origin
Amounts will not be scaled prior to the regression
Weighting factor for the regression: None
User Values:
Label :
Value 1: 0.000000
Value 2: 0.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	0.2000	9127.00	9409.55	----------	----------	1
2	2.0000	120590.50	115648.41	----------	----------	1
3	5.0000	294973.00	267573.20	----------	----------	1
4	10.0000	642094.00	579671.49	----------	----------	1
5	20.0000	1273008.09	1.07e+06	----------	----------	1
6	50.0000	3471075.94	2.65e+06	----------	----------	1

Calibration Curve : y = (-1387.444118) + (60639.584965)x + (175.900230)x^2 + (0.000000)x^3
R-squared : 0.999937

TCO

Component Type : Single Peak Component
Retention Time : 5.100 min Search Window: 3.00 s, 0.00 %
Reference Component:
Find peak closest to expected RT in window
Calibrating Area versus Amount using a 2nd Order Fit
Curve will be forced through the origin
Amounts will not be scaled prior to the regression
Weighting factor for the regression: None
User Values:
Label :
Value 1: 0.000000

Value 2: 0.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000

Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	0.2000	17757.00	0.00	----------	----------	0
2	2.0000	187134.00	0.00	----------	----------	0
3	5.0000	431982.00	0.00	----------	----------	0
4	10.0000	906461.00	0.00	----------	----------	0
5	20.0000	1778660.00	0.00	----------	----------	0
6	50.0000	4466702.00	0.00	----------	----------	0

Calibration Curve : y = (0.000000) + (89161.426063)x + (3.258806)x^2 + (0.000000)x^3
R-squared : 0.999963

C8
Component Type : Single Peak Component
Retention Time : 5.935 min Search Window: 3.00 s, 0.00 %
Reference Component:
Find peak closest to expected RT in window
Quantitation will use calibration reference : TCO

C9
Component Type : Single Peak Component
Retention Time : 7.167 min Search Window: 3.00 s, 0.00 %
Reference Component:
Find peak closest to expected RT in window
Quantitation will use calibration reference : TCO

C10
Component Type : Single Peak Component
Retention Time : 8.123 min Search Window: 3.00 s, 0.00 %
Reference Component:
Find peak closest to expected RT in window
Quantitation will use calibration reference : TCO

C11
Component Type : Single Peak Component
Retention Time : 9.337 min Search Window: 3.00 s, 0.00 %
Reference Component:
Find peak closest to expected RT in window
Quantitation will use calibration reference : TCO

C12
Component Type : Single Peak Component
Retention Time : 10.089 min Search Window: 3.00 s, 0.00 %
Reference Component:
Find peak closest to expected RT in window
Quantitation will use calibration reference : TCO

C13
Component Type : Single Peak Component
Retention Time : 11.198 min Search Window: 3.00 s, 0.00 %
Reference Component:
Find peak closest to expected RT in window
Quantitation will use calibration reference : TCO

C14
Component Type : Single Peak Component

Retention Time : 11.745 min Search Window: 3.00 s, 0.00 %
Reference Component:
Find peak closest to expected RT in window
Quantitation will use calibration reference : TCO

C15
Component Type : Single Peak Component
Retention Time : 12.556 min Search Window: 3.00 s, 0.00 %
Reference Component:
Find peak closest to expected RT in window
Quantitation will use calibration reference : TCO

C16
Component Type : Single Peak Component
Retention Time : 13.415 min Search Window: 3.00 s, 0.00 %
Reference Component:
Find peak closest to expected RT in window
Quantitation will use calibration reference : TCO

C17-(SURR) Heptadecane
Component Type : Single Peak Component
Retention Time : 13.848 min Search Window: 8.00 s, 0.00 %
Reference Component:
Find largest peak in window
Calibrating Area versus Amount using a 2nd Order Fit
Curve will be forced through the origin
Amount will not be scaled prior to the regression
Weighting factor for the regression: None
User Values:
Label :
Value 1: 0.000000
Value 2: 0.000000
Value 3: 0.000000
Value 4: 0.000000
Value 5: 0.000000
Calibration Levels:

Level Name	Amount	Area	Height	ISTD Resp.	ISTD Amt.	# Replicates
1	0.2000	16447.51	9825.89	----------	----------	1
2	2.0000	167704.50	125288.06	----------	----------	1
3	5.0000	392766.00	298854.30	----------	----------	1
4	10.0000	806470.00	622967.77	----------	----------	1
5	20.0000	1621359.00	1.25e+06	----------	----------	1
6	50.0000	4070423.00	3.00e+06	----------	----------	1

Calibration Curve : y = (0.000000) + (80553.119783)x + (17.273426)x^2 + (0.000000)x^3
R-squared : 0.999986

TCO Surrogates
Component Type : Named Group
Group Members:
C7 (SURR) Heptane
C17-(SURR) Heptadecane

Quantitation will be done using response factor = 1.000000e+99

C20
Component Type : Single Peak Component
Retention Time : 15.896 min Search Window: 3.00 s, 0.00 %
Reference Component:
Find peak closest to expected RT in window

Quantitation will use calibration reference : TCO

Average Area Response of One Peak Based on TCO Standard

	Concentration (mg/L)					
Standard Peak	**0.200**	**2.000**	**5.00**	**10.0**	**20.0**	**50.0**
Heptane (C7)	9127	120590	294973	642094	1273008	3471076
Decane (C10)	17131	190035	434345	938672	1817343	4569872
Dodecane (C12)	17778	186734	432960	898270	1768442	4442497
Tetradecane (C14)	18361	184634	428640	882442	1750194	4387737
TCO1 Average Area	17757	187134	431982	906461	1778660	4466702
Heptadecane (C17)	16448	167704	392766	806470	1621359	4070423

Acquisition Date: 1/25/2006
Calibration File: #tcosv.mth
Analyst: MSP

```
Software Version: 4.1<2F12>
Sample Name  : AI2409 150 PPM                    Time  : 3/28/2006  09:35 AM
Sample Number: 3                                 Study : ICAL 3-07-06
Operator     : Analyst

Instrument   : GTO                    Channel : A     A/D mV Range : 10000
AutoSampler  :
Rack/Vial    : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 1/25/2006  01:46 PM
Delay Time     : 0.00   min.
End Time       : 19.00  min.
Sampling Rate  : 10.0000  pts/sec

Raw Data File    : K:\#GTO\#SEQ\A25G6\G#A5003.RAW
Result File      : K:\#GTO\#SEQ\A25G6\G#A5003.rst
Inst Method      : K:\#GTO\#MTHCALB\TCSV0307 from K:\#GTO\#SEQ\A25G6\G#A5003.rst
Proc Method      : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method     : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File    : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume    : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount    : 1.0000                 Dilution Factor  : 1.00

Noise Threshold: 20          Area Threshold   : 2000     Bunch Factor: 4
Multiplier     : 1.0000      Divisor  : 1.0000       Addend  : 0.0000
User1          :                      User2         :
User3          :                      User4         :
User5          :

Instrument Conditions:
Capillary GC     -
  Instrument     : GC3400TCO
  Column         : J&W DB-1 128-1052
  Column Length  : 50m x 0.20 mm x 0.33um
  Carrier Gas    : Helium
  Flow Rate      : 25 cm/s @ 300C
  Split Ratio    : Splitless >50
  Temperature    : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1     : FID, 350C, 1 x 10-12
  Detector 2     :
  Notes          :

Total number of peaks detected: 17
```

Total Chromatographable Organics (C7-C17)

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
4.652		5214.5	5.2145	5.21	5.21	465023	100	52	209	52	
8.126	C10	51158.3	51.1583	51.16	51.16	4569872	100	512	###	512	
9.838		125.0	0.1250	0.13	0.13	11148	100	1	5	1	
10.092	C12	49734.9	49.7349	49.73	49.73	4442497	100	497	###	497	
11.532		161.9	0.1619	0.16	0.16	14439	100	2	6	2	
11.750	C14	49123.0	49.1230	49.12	49.12	4387737	100	491	###	491	
13.855	TCO Surrogates	7.5e-90	7.5e-93	7.54e-93	7.5e-93	7541499	100	###	###	###	2
		155517.6	155.5176	155.52	155.52	21432216					

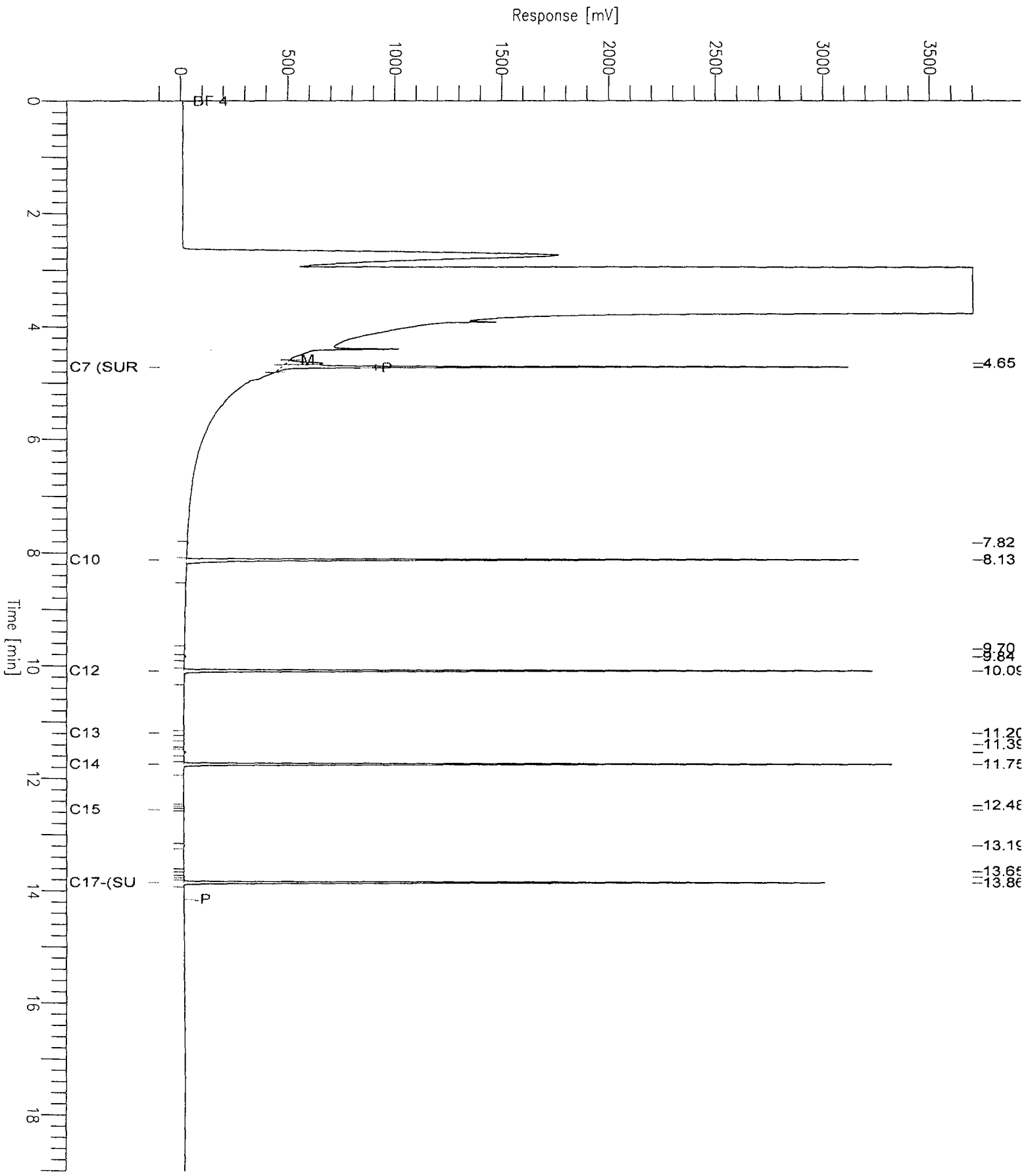
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.719	C7 (SURR) Heptane	50009.4	50.0094	50.01	50.01	3471076	100	500	###	500
13.855	C17-(SURR) Heptadeca	49994.9	49.9949	49.99	49.99	4070423	100	500	###	500
		100004.3	100.0043	100.00	100.00	7541499				

Chromatogram

Sample Name : AI2409 150 PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5003.raw
Method : TCSV0307
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

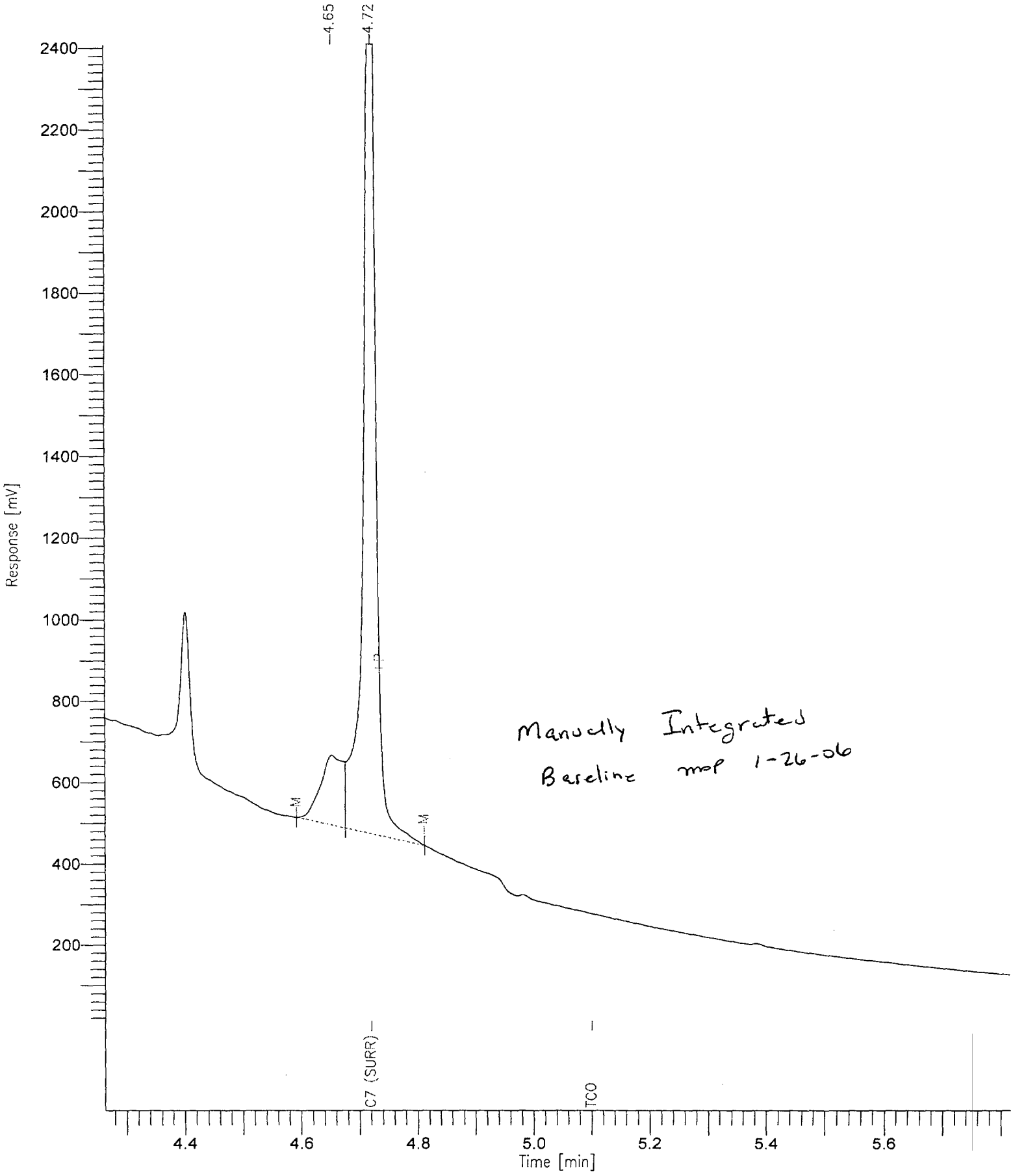
Sample #: 3 Page 1 of 1
Date : 3/28/2006 09:35 AM
Time of Injection: 1/25/2006 01:46 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



Chromatogram

Sample Name : AI2409 150 PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5003.RAW
Method :
Start Time : 4.26 min End Time : 5.82 min
Scale Factor: 0.0 Plot Offset: 11 mV

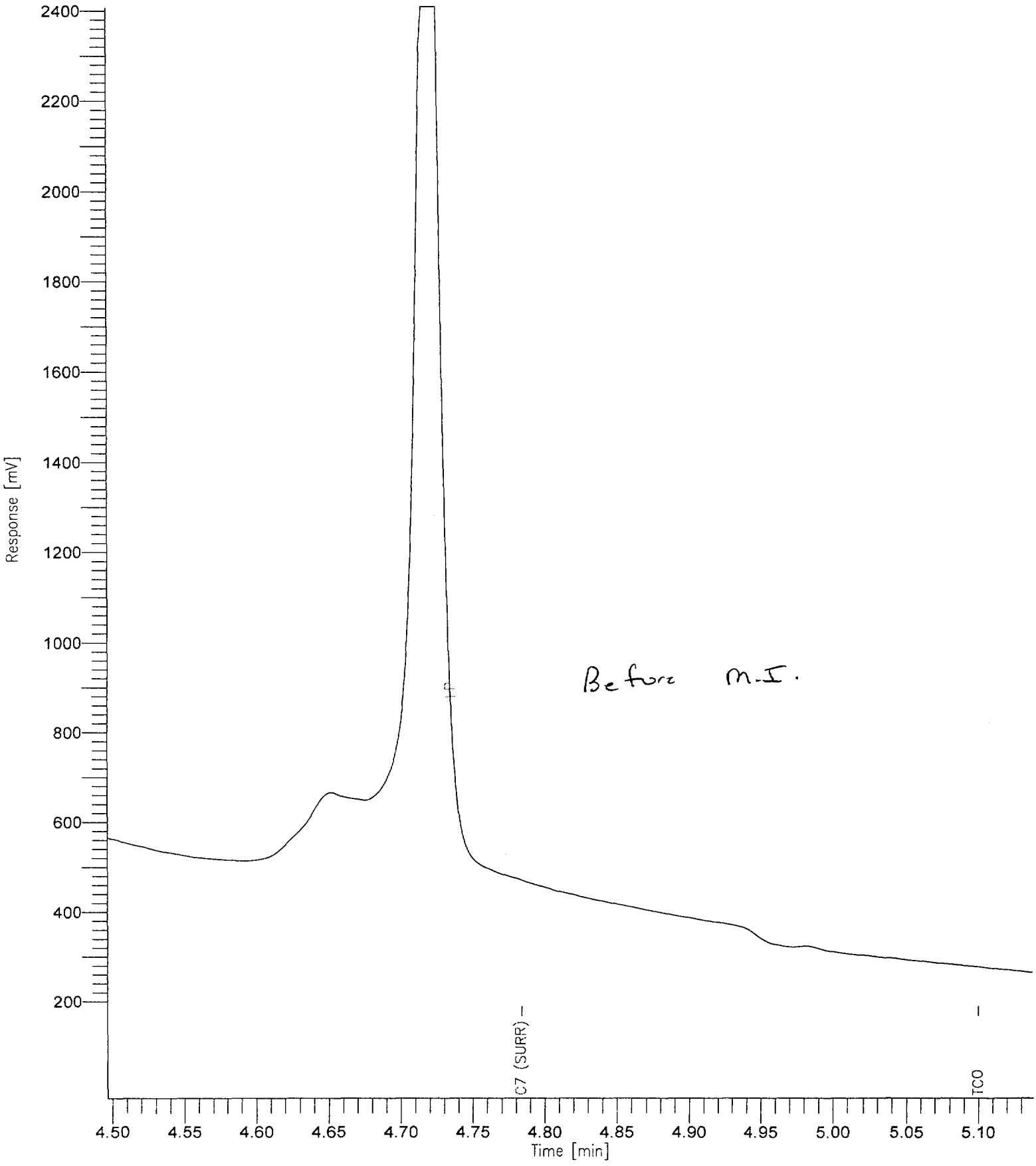
Sample #: 3 Page 1 of 1
Date : 1/26/2006 07:40 AM
Time of Injection: 1/25/2006 01:46 PM
Low Point : 10.71 mV High Point : 2406.91 mV
Plot Scale: 2396.2 mV



Chromatogram

Sample Name : AI2409 150 PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5003.RAW
Method :
Start Time : 4.50 min End Time : 5.14 min
Scale Factor: 0.0 Plot Offset: 187 mV

Sample #: 3 Page 1 of 1
Date : 1/26/2006 07:40 AM
Time of Injection: 1/25/2006 01:46 PM
Low Point : 186.71 mV High Point : 2406.91 mV
Plot Scale: 2220.2 mV



```
Software Version: 4.1<2F12>
Sample Name   : AI2408 60 PPM                    Time   : 3/28/2006  09:35 AM
Sample Number: 4                                 Study  : ICAL 3-07-06
Operator      : Analyst

Instrument    : GTO                    Channel : A     A/D mV Range : 10000
AutoSampler   :
Rack/Vial     : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 1/25/2006  02:11 PM
Delay Time      : 0.00   min.
End Time        : 19.00  min.
Sampling Rate   : 10.0000  pts/sec

Raw Data File     : K:\#GTO\#SEQ\A25G6\G#A5004.RAW
Result File       : K:\#GTO\#SEQ\A25G6\G#A5004.rst
Inst Method       : K:\#GTO\#MTHCALB\TCSV0307 from K:\#GTO\#SEQ\A25G6\G#A5004.rst
Proc Method       : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method      : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File     : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume     : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount     : 1.0000                 Dilution Factor  : 1.00

Noise Threshold: 20           Area Threshold   : 2000     Bunch Factor: 4
Multiplier     : 1.0000       Divisor  : 1.0000       Addend  : 0.0000
User1          :                      User2         :
User3          :                      User4         :
User5          :

Instrument Conditions:
Capillary GC     -
  Instrument      : GC3400TCO
  Column          : J&W DB-1 128-1052
  Column Length   : 50m x 0.20 mm x 0.33um
  Carrier Gas     : Helium
  Flow Rate       : 25 cm/s @ 300C
  Split Ratio     : Splitless >50
  Temperature     : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1      : FID, 350C, 1 x 10-12
  Detector 2      :
  Notes           :

Total number of peaks detected: 14
```

Total Chromatographable Organics (C7-C17)

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
4.659		1333.8	1.3338	1.33	1.33	118932	100	13	53	13	
8.123	C10	20367.5	20.3675	20.37	20.37	1817343	100	204	815	204	
10.088	C12	19819.8	19.8198	19.82	19.82	1768442	100	198	793	198	
11.745	C14	19615.4	19.6154	19.62	19.62	1750194	100	196	785	196	
13.448	C16	131.1	0.1311	0.13	0.13	11688	100	1	5	1	
13.849	TCO Surrogates	2.9e-90	2.9e-93	2.89e-93	2.9e-93	2894367	100	###	###	###	2
		61267.6	61.2676	61.27	61.27	8360966					

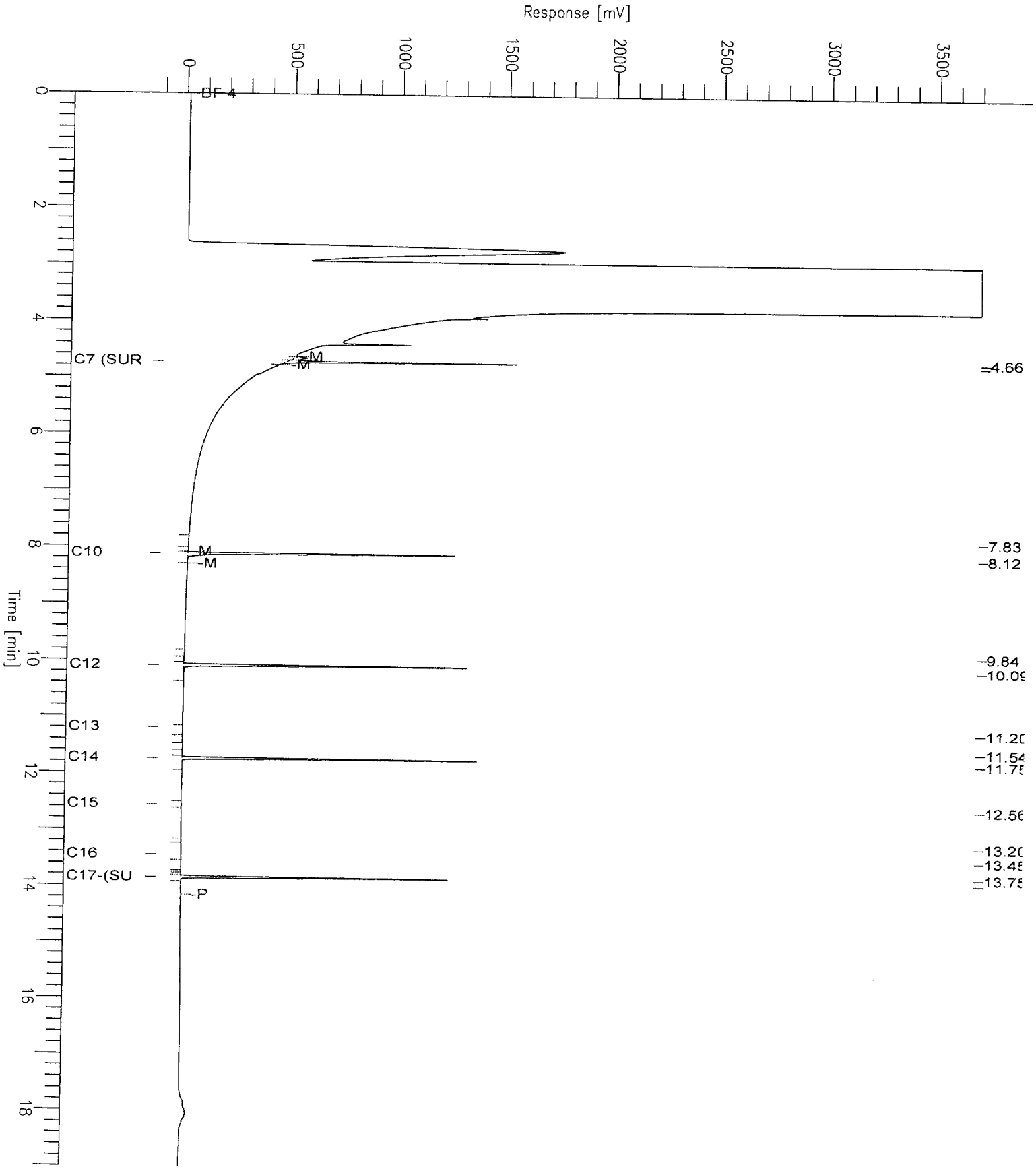
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.728	C7 (SURR) Heptane	19870.6	19.8706	19.87	19.87	1273008	100	199	795	199
13.849	C17-(SURR) Heptadeca	20041.7	20.0417	20.04	20.04	1621359	100	200	802	200
		39912.3	39.9123	39.91	39.91	2894367				

Chromatogram

Sample Name : AI2408 60 PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5004.raw
Method : TCSV0307
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

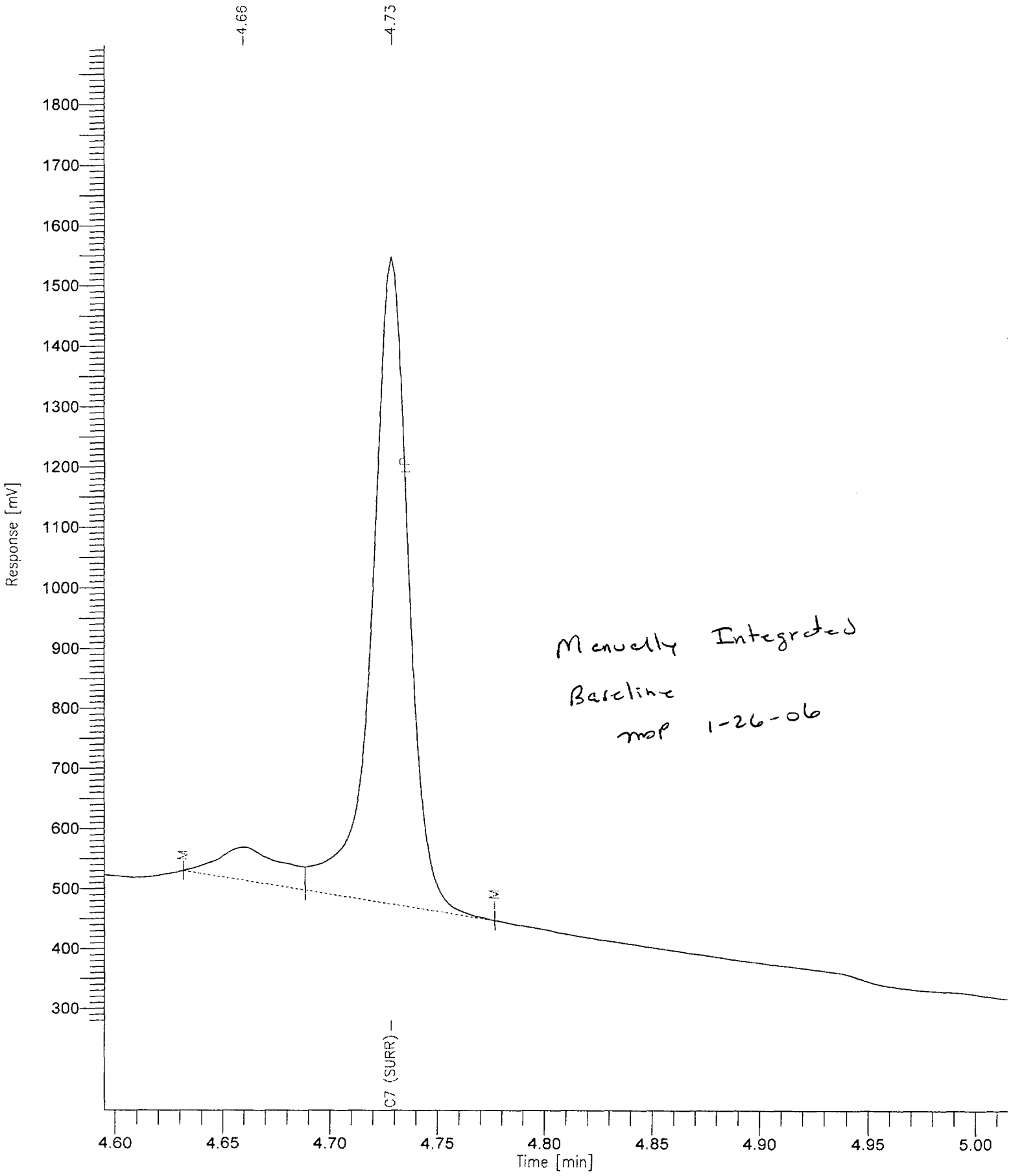
Sample #: 4
Date : 3/28/2006 09:35 AM
Time of Injection: 1/25/2006 02:11 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



Chromatogram

Sample Name : AI2408 60 PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5004.RAW
Method :
Start Time : 4.60 min End Time : 5.01 min
Scale Factor: 0.0 Plot Offset: 279 mV

Sample #: 4 Page 1 of 1
Date : 1/26/2006 07:41 AM
Time of Injection: 1/25/2006 02:11 PM
Low Point : 278.86 mV High Point : 1897.44 mV
Plot Scale: 1618.6 mV

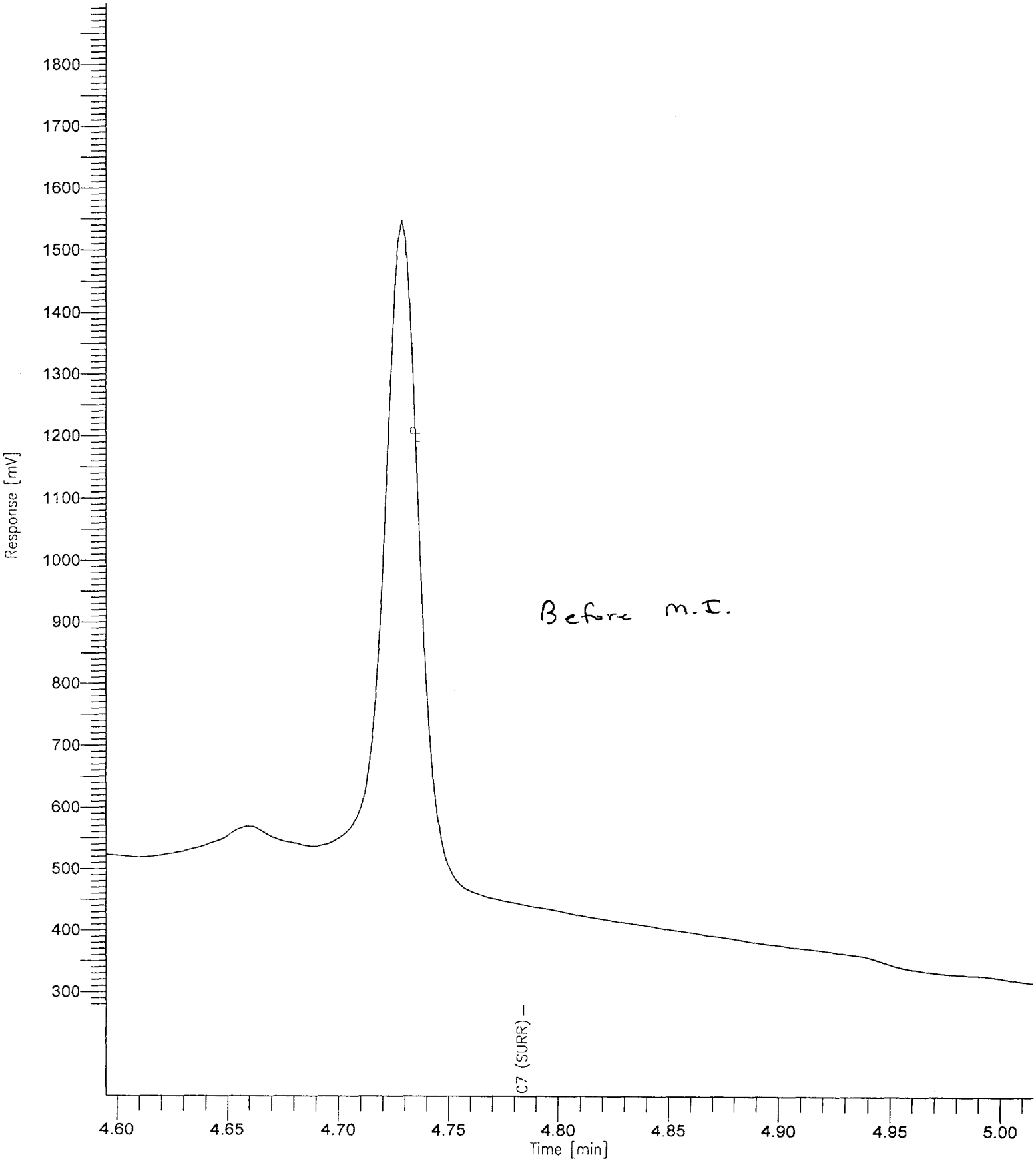


Manually Integrated
Baseline
mop 1-26-06

Chromatogram

Sample Name : AI2408 60 PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5004.RAW
Method :
Start Time : 4.60 min End Time : 5.01 min
Scale Factor: 0.0 Plot Offset: 279 mV

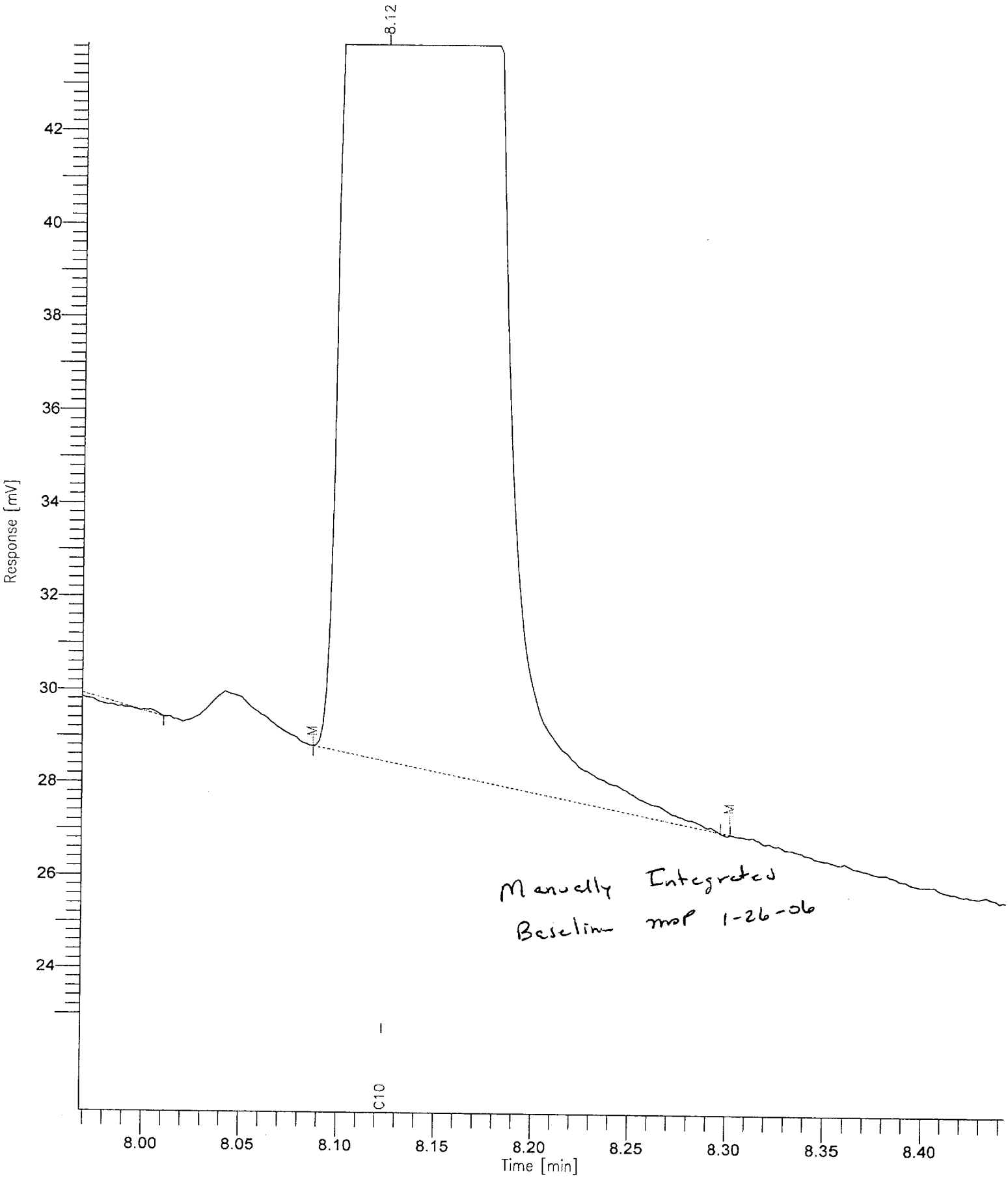
Sample #: 4 Page 1 of 1
Date : 1/26/2006 07:41 AM
Time of Injection: 1/25/2006 02:11 PM
Low Point : 278.86 mV High Point : 1897.44 mV
Plot Scale: 1618.6 mV



Chromatogram

Sample Name : AI2408 60 PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5004.RAW
Method :
Start Time : 7.97 min End Time : 8.44 min
Scale Factor: 0.0 Plot Offset: 23 mV

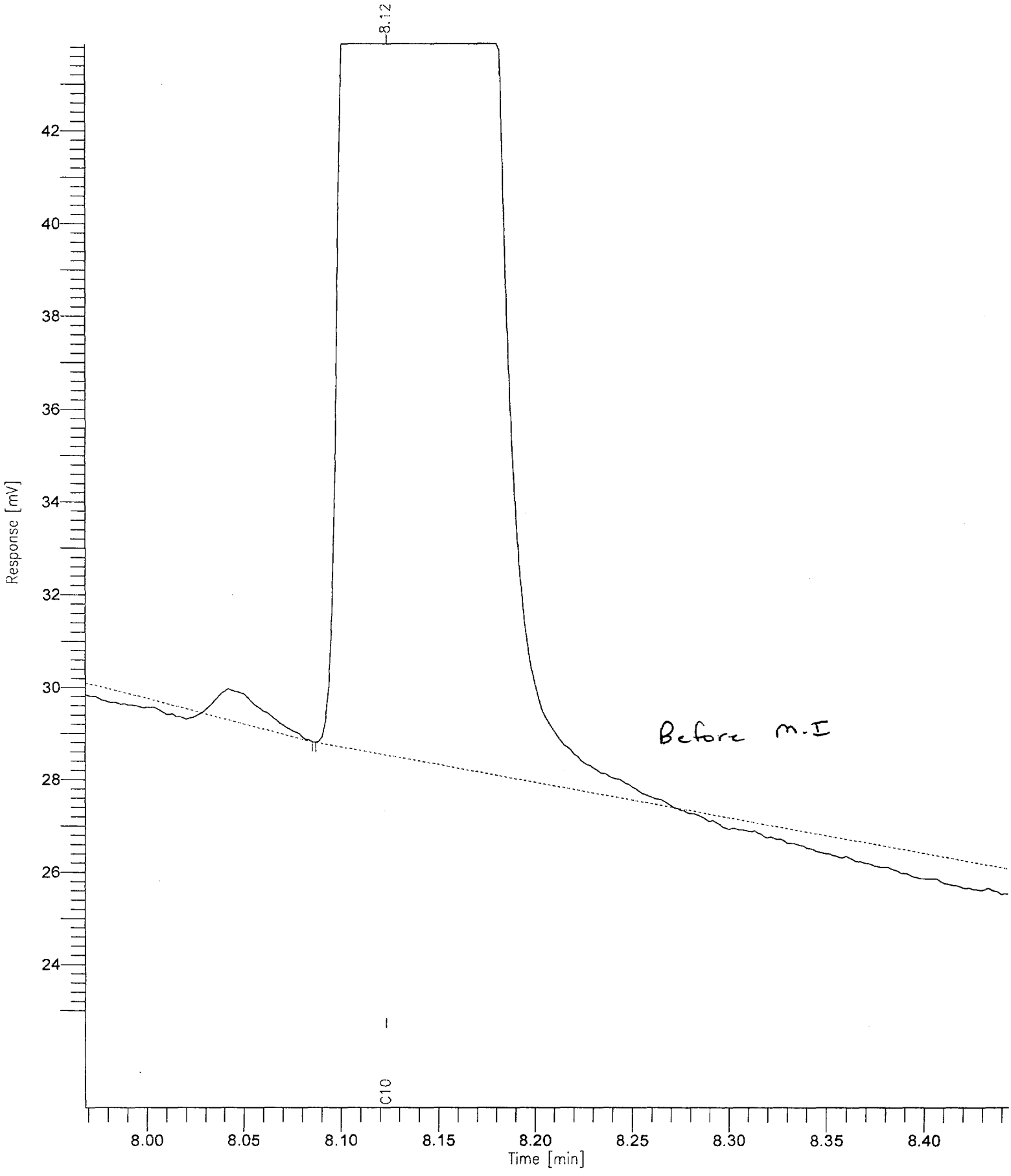
Sample #: 4 Page 1 of 1
Date : 1/26/2006 07:41 AM
Time of Injection: 1/25/2006 02:11 PM
Low Point : 22.82 mV High Point : 43.86 mV
Plot Scale: 21.0 mV



Chromatogram

Sample Name : AI2408 60 PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5004.RAW
Method :
Start Time : 7.97 min End Time : 8.44 min
Scale Factor: 0.0 Plot Offset: 23 mV

Sample #: 4 Page 1 of 1
Date : 1/26/2006 07:41 AM
Time of Injection: 1/25/2006 02:11 PM
Low Point : 22.82 mV High Point : 43.86 mV
Plot Scale: 21.0 mV



```
Software Version: 4.1<2F12>
Sample Name  : AI2407 30 PPM                    Time  : 3/28/2006  09:35 AM
Sample Number: 5                                Study : ICAL 3-07-06
Operator     : Analyst

Instrument   : GTO                    Channel : A     A/D mV Range : 10000
AutoSampler  :
Rack/Vial    : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 1/25/2006  02:37 PM
Delay Time     : 0.00   min.
End Time       : 19.00  min.
Sampling Rate  : 10.0000  pts/sec

Raw Data File    : K:\#GTO\#SEQ\A25G6\G#A5005.RAW
Result File      : K:\#GTO\#SEQ\A25G6\G#A5005.rst
Inst Method      : K:\#GTO\#MTHCALB\TCSV0307 from K:\#GTO\#SEQ\A25G6\G#A5005.rst
Proc Method      : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method     : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File    : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume    : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount    : 1.0000                 Dilution Factor  : 1.00

Noise Threshold: 20          Area Threshold   : 2000     Bunch Factor: 4
Multiplier     : 1.0000      Divisor  : 1.0000       Addend  : 0.0000
User1          :                      User2        :
User3          :                      User4        :
User5          :

Instrument Conditions:
Capillary GC     -
  Instrument     : GC3400TCO
  Column         : J&W DB-1 128-1052
  Column Length  : 50m x 0.20 mm x 0.33um
  Carrier Gas    : Helium
  Flow Rate      : 25 cm/s @ 300C
  Split Ratio    : Splitless >50
  Temperature    : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1     : FID, 350C, 1 x 10-12
  Detector 2     :
  Notes          :

Total number of peaks detected: 12
```

Total Chromatographable Organics (C7-C17)

==========

Trial Burn Sampling and Analysis

==========

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
5.404		842.9	0.8429	0.84	0.84	75156	100	8	34	8	
8.123	C10	10523.7	10.5237	10.52	10.52	938672	100	105	421	105	
10.088	C12	10070.9	10.0709	10.07	10.07	898270	100	101	403	101	
11.743	C14	9893.5	9.8935	9.89	9.89	882442	100	99	396	99	
13.848	TCO Surrogates	1.4e-90	1.4e-93	1.45e-93	1.4e-93	1448564	100	###	###	###	2
		31331.1	31.3311	31.33	31.33	4243104					

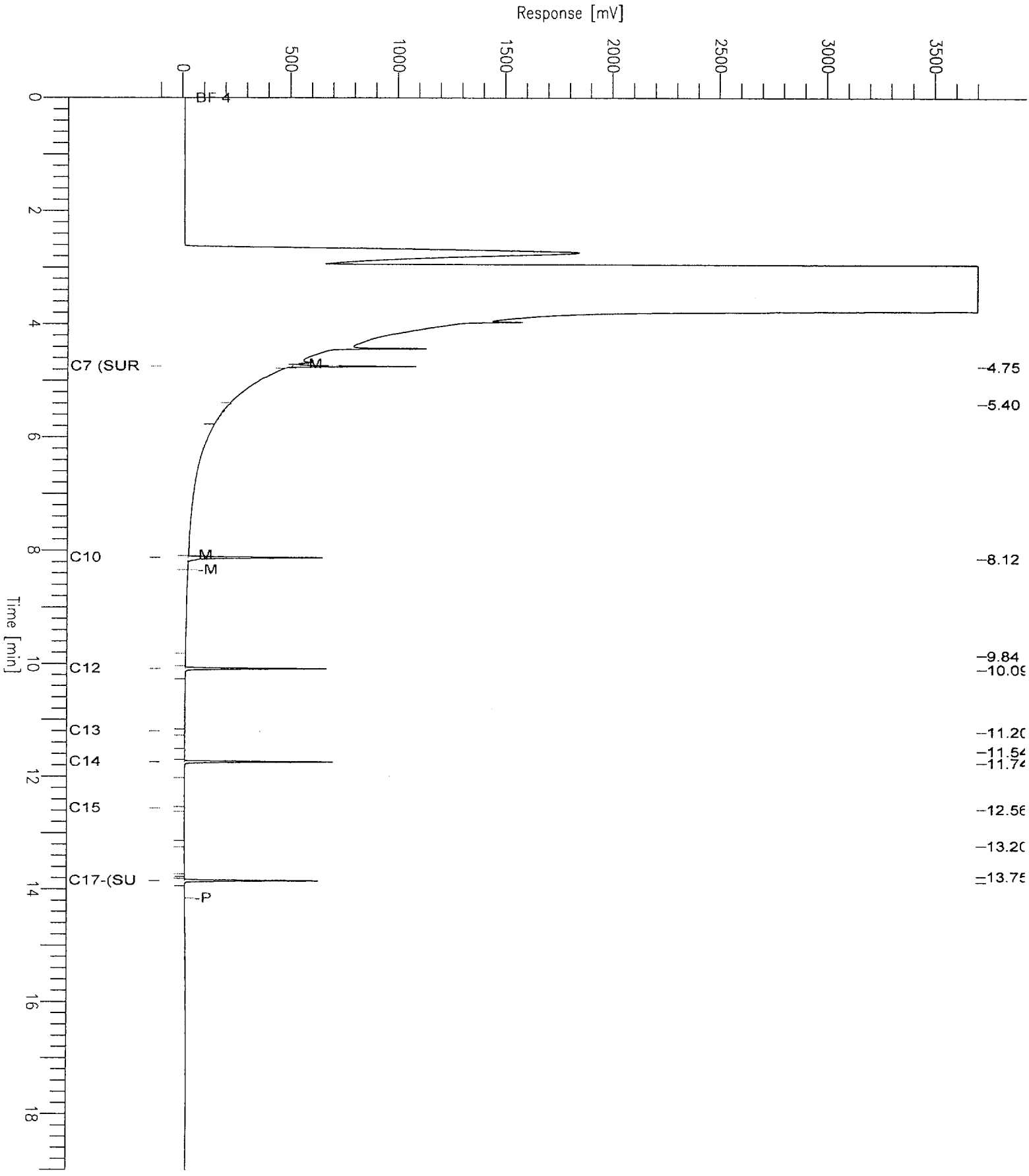
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.746	C7 (SURR) Heptane	10303.6	10.3036	10.30	10.30	642094	100	103	412	103
13.848	C17-(SURR) Heptadeca	9990.3	9.9903	9.99	9.99	806470	100	100	400	100
		20293.9	20.2939	20.29	20.29	1448564				

Chromatogram

Sample Name : AI2407 30 PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5005.raw
Method : TCSV0307
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

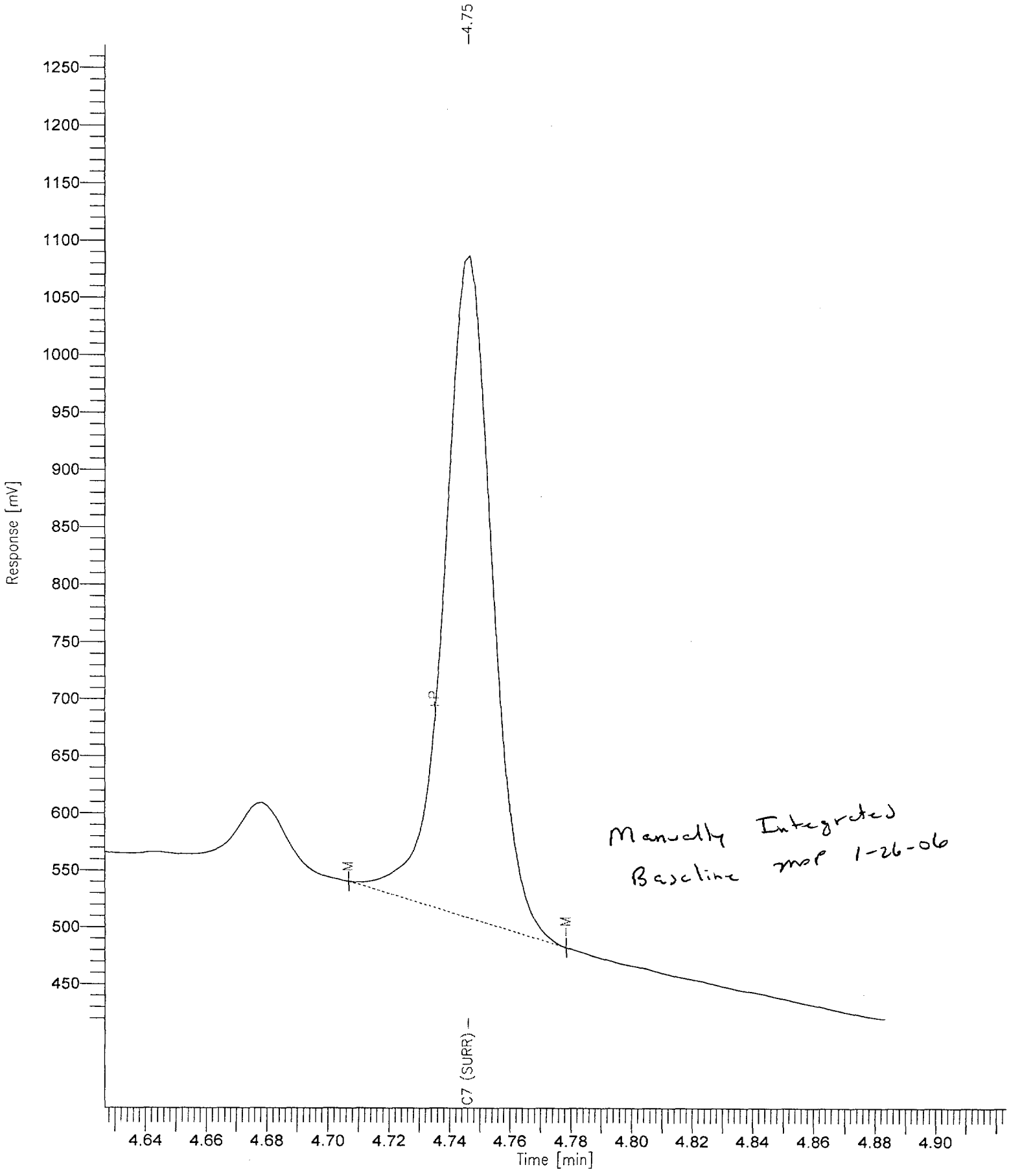
Sample #: 5 Page 1 of 1
Date : 3/28/2006 09:35 AM
Time of Injection: 1/25/2006 02:37 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



Chromatogram

Sample Name : AI2407 30 PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5005.RAW
Method :
Start Time : 4.63 min End Time : 4.92 min
Scale Factor: 0.0 Plot Offset: 419 mV

Sample #: 5 Page 1 of 1
Date : 1/26/2006 07:42 AM
Time of Injection: 1/25/2006 02:37 PM
Low Point : 419.29 mV High Point : 1269.55 mV
Plot Scale: 850.3 mV

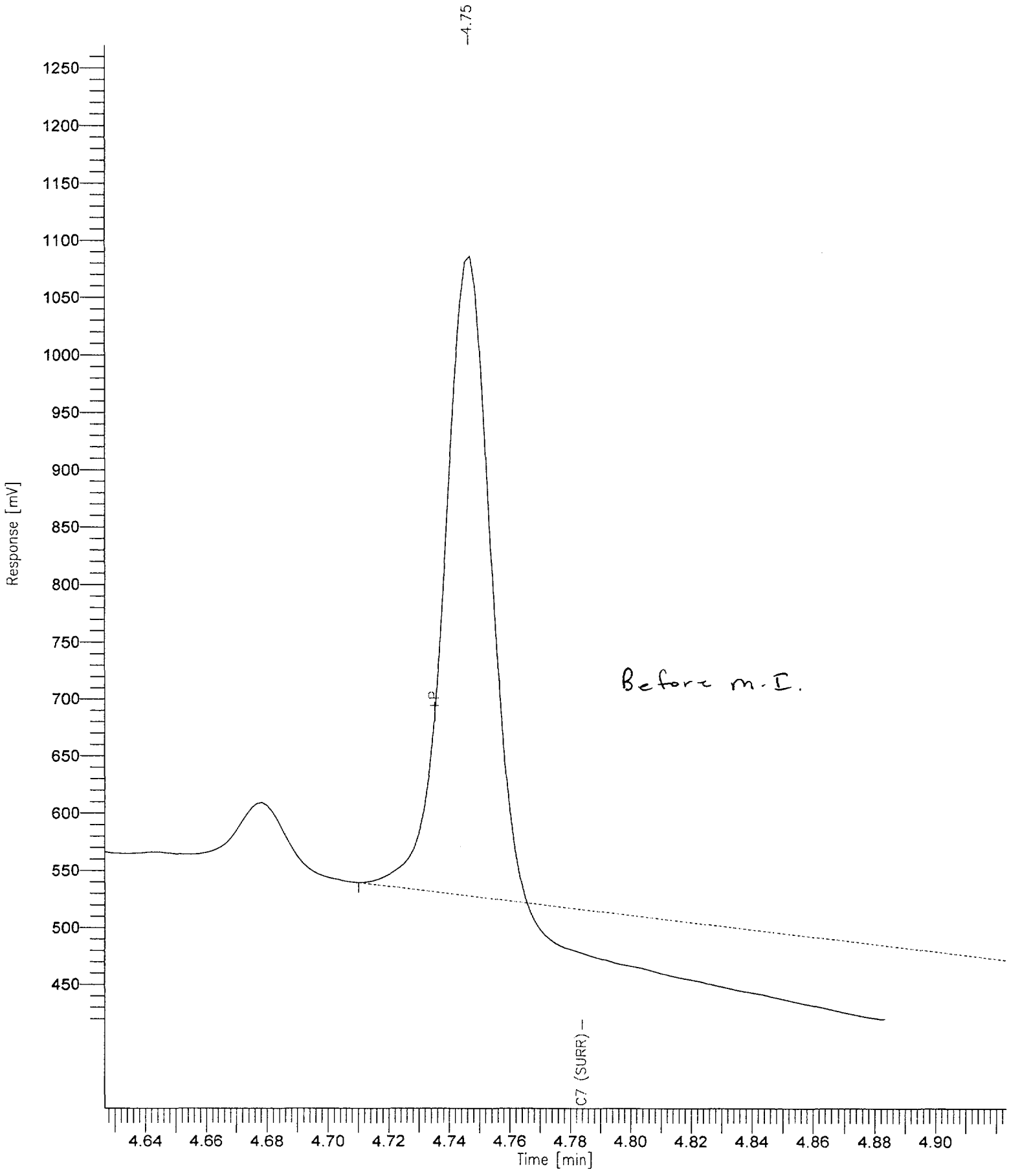


Manually Integrated
Baseline mop 1-26-06

Chromatogram

Sample Name : AI2407 30 PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5005.RAW
Method :
Start Time : 4.63 min End Time : 4.92 min
Scale Factor: 0.0 Plot Offset: 419 mV

Sample #: 5 Page 1 of 1
Date : 1/26/2006 07:42 AM
Time of Injection: 1/25/2006 02:37 PM
Low Point : 419.29 mV High Point : 1269.55 mV
Plot Scale: 850.3 mV

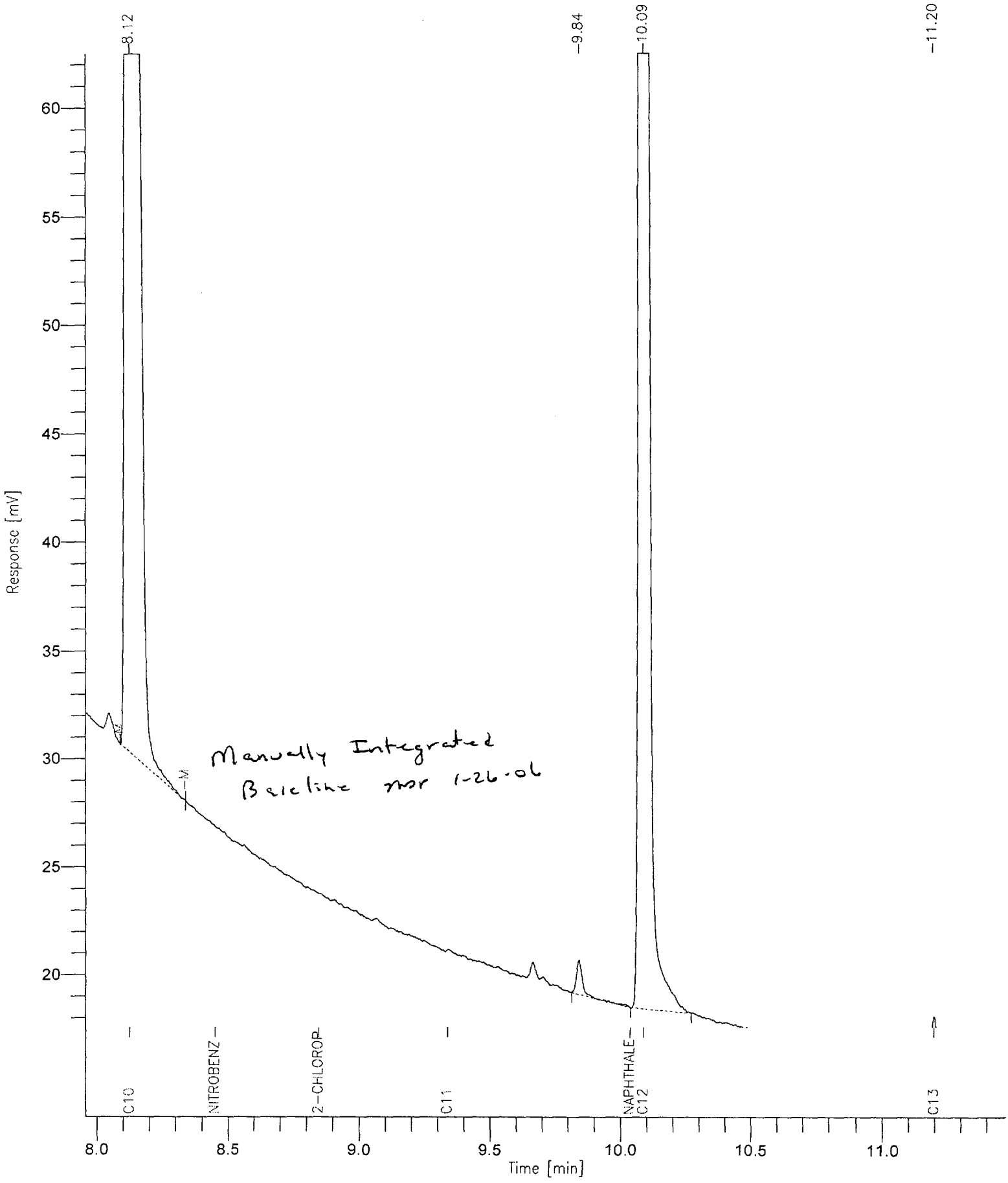


Before m.I.

Chromatogram

Sample Name : AI2407 30 PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5005.RAW
Method :
Start Time : 7.96 min End Time : 11.48 min
Scale Factor: 0.0 Plot Offset: 18 mV

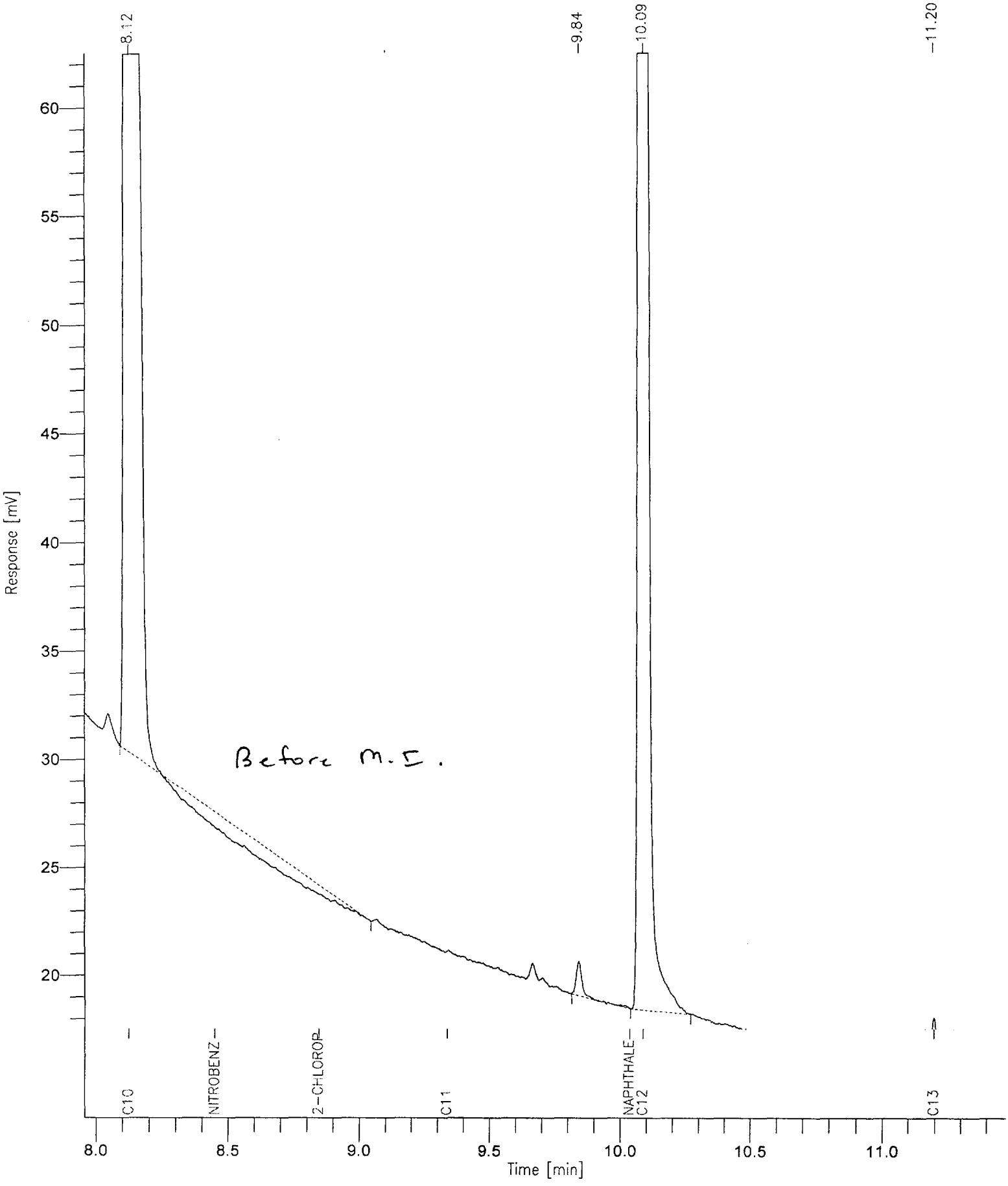
Sample #: 5 Page 1 of 1
Date : 1/26/2006 07:42 AM
Time of Injection: 1/25/2006 02:37 PM
Low Point : 17.53 mV High Point : 62.49 mV
Plot Scale: 45.0 mV



Chromatogram

Sample Name : AI2407 30 PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5005.RAW
Method :
Start Time : 7.96 min End Time : 11.48 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #: 5 Page 1 of 1
Date : 1/26/2006 07:42 AM
Time of Injection: 1/25/2006 02:37 PM
Low Point : 17.53 mV High Point : 62.49 mV
Plot Scale: 45.0 mV



```
Software Version: 4.1<2F12>
Sample Name   : AI2406 15 PPM                    Time   : 3/28/2006  09:35 AM
Sample Number: 6                                 Study  : ICAL 3-07-06
Operator      : Analyst

Instrument    : GTO                    Channel : A     A/D mV Range : 10000
AutoSampler   :
Rack/Vial     : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 1/25/2006  03:03 PM
Delay Time      : 0.00   min.
End Time        : 19.00  min.
Sampling Rate   : 10.0000  pts/sec

Raw Data File     : K:\#GTO\#SEQ\A25G6\G#A5006.RAW
Result File       : K:\#GTO\#SEQ\A25G6\G#A5006.rst
Inst Method       : K:\#GTO\#MTHCALB\TCSV0307 from K:\#GTO\#SEQ\A25G6\G#A5006.rst
Proc Method       : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method      : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File     : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume     : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount     : 1.0000                 Dilution Factor  : 1.00

Noise Threshold: 20           Area Threshold   : 2000     Bunch Factor: 4
Multiplier      : 1.0000      Divisor  : 1.0000       Addend  : 0.0000
User1           :                      User2         :
User3           :                      User4         :
User5           :

Instrument Conditions:
Capillary GC      -
  Instrument      : GC3400TCO
  Column          : J&W DB-1 128-1052
  Column Length   : 50m x 0.20 mm x 0.33um
  Carrier Gas     : Helium
  Flow Rate       : 25 cm/s @ 300C
  Split Ratio     : Splitless >50
  Temperature     : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1      : FID, 350C, 1 x 10-12
  Detector 2      :
  Notes           :

Total number of peaks detected: 8
```

Total Chromatographable Organics (C7-C17)

==========

Trial Burn Sampling and Analysis

==========

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
8.122	C10	4870.6	4.8706	4.87	4.87	434345	100	49	195	49	
10.087	C12	4855.1	4.8551	4.86	4.86	432960	100	49	194	49	
11.742	C14	4806.6	4.8066	4.81	4.81	428640	100	48	192	48	
13.845	TCO Surrogates	6.9e-91	6.9e-94	6.88e-94	6.9e-94	687739	100	###	###	###	3
		14532.2	14.5322	14.53	14.53	1983685					

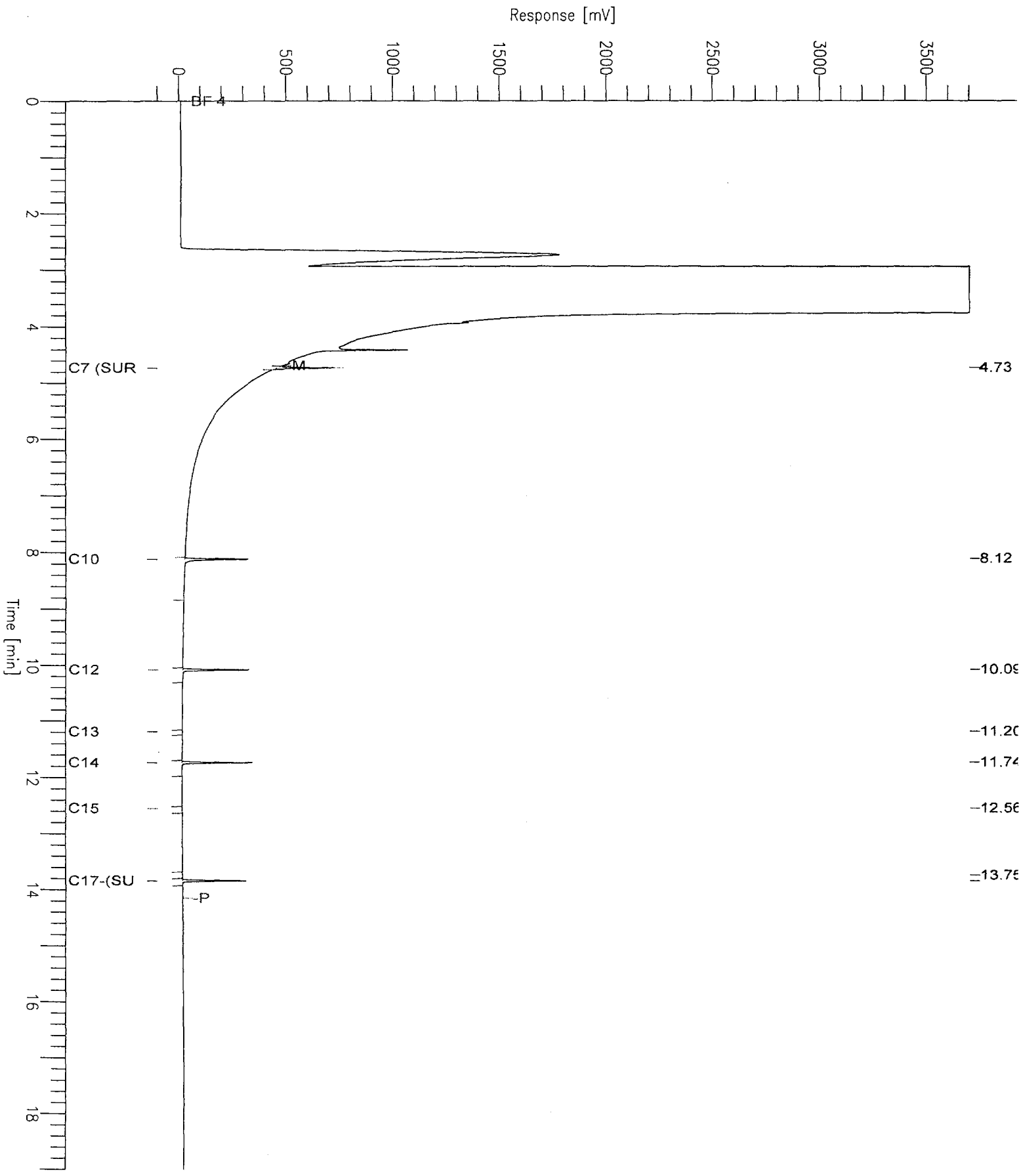
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.734	C7 (SURR) Heptane	4819.9	4.8199	4.82	4.82	294973	100	48	193	48
13.845	C17-(SURR) Heptadeca	4870.8	4.8708	4.87	4.87	392766	100	49	195	49
		9690.6	9.6906	9.69	9.69	687739				

Chromatogram

Sample Name : AI2406 15 PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5006.raw
Method : TCSV0307
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

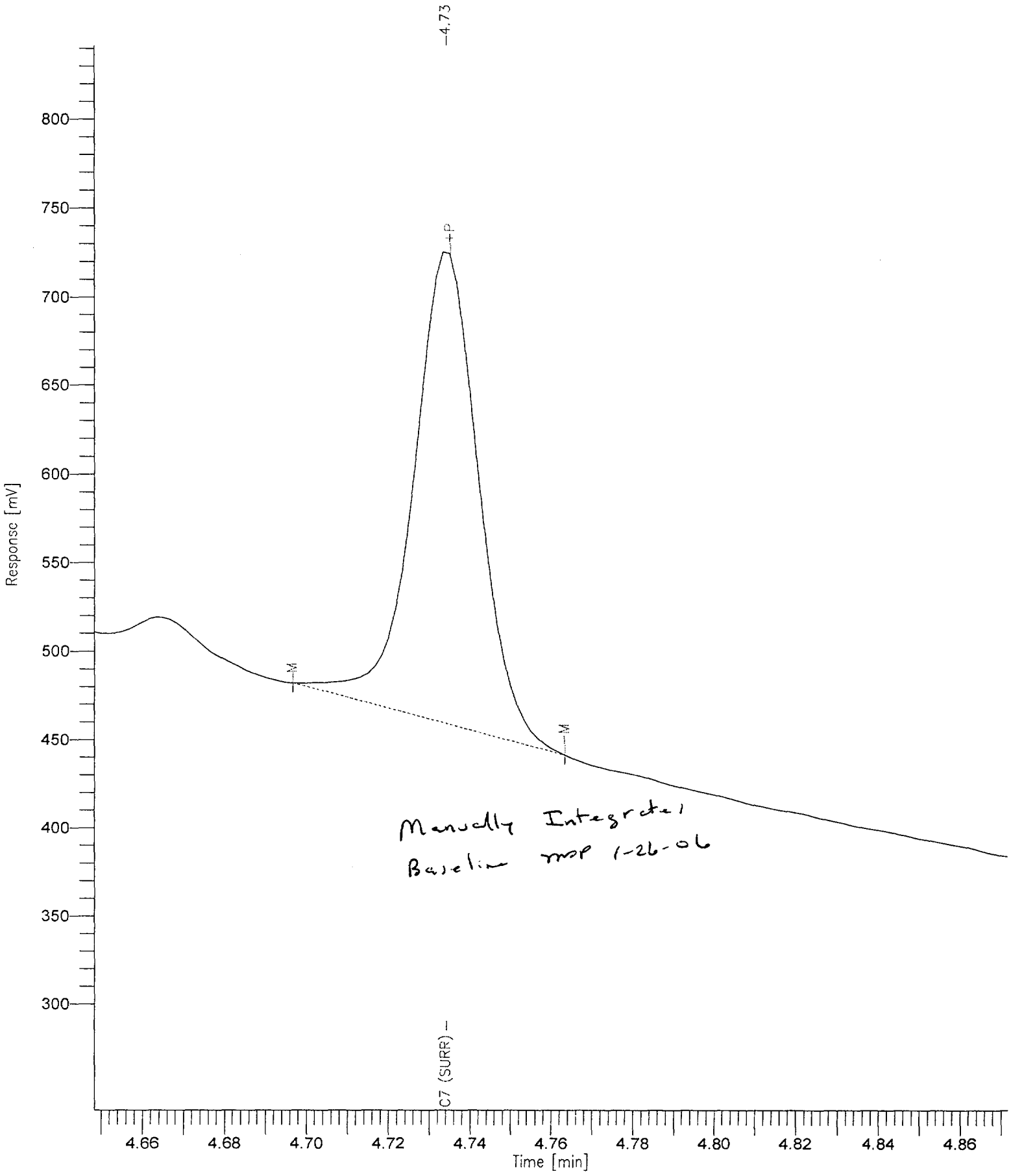
Sample #: 6 Page 1 of 1
Date : 3/28/2006 09:35 AM
Time of Injection: 1/25/2006 03:03 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



Chromatogram

Sample Name : AI2406 15 PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5006.RAW
Method :
Start Time : 4.65 min End Time : 4.87 min
Scale Factor: 0.0 Plot Offset: 290 mV

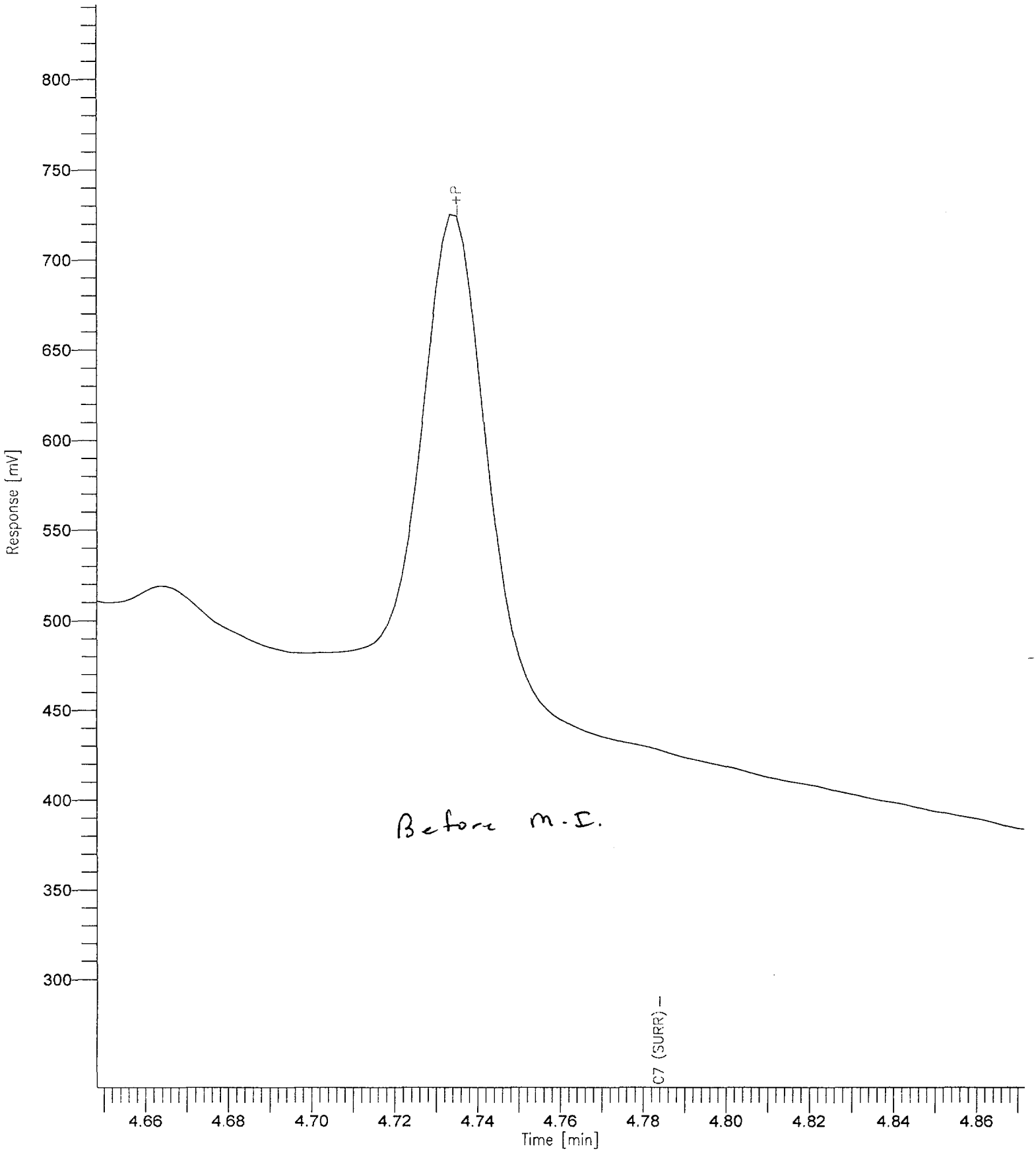
Sample #: 6 Page 1 of 1
Date : 1/26/2006 07:43 AM
Time of Injection: 1/25/2006 03:03 PM
Low Point : 290.21 mV High Point : 841.42 mV
Plot Scale: 551.2 mV



Chromatogram

Sample Name : AI2406 15 PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5006.RAW
Method :
Start Time : 4.65 min End Time : 4.87 min
Scale Factor: 0.0 Plot Offset: 290 mV

Sample #: 6 Page 1 of 1
Date : 1/26/2006 07:42 AM
Time of Injection: 1/25/2006 03:03 PM
Low Point : 290.21 mV High Point : 841.42 mV
Plot Scale: 551.2 mV



```
Software Version: 4.1<2F12>
Sample Name  : AI2405 6.0 PPM                    Time  : 3/28/2006  09:35 AM
Sample Number: 7                                 Study : ICAL 3-07-06
Operator     : Analyst

Instrument   : GTO                    Channel : A     A/D mV Range : 10000
AutoSampler  :
Rack/Vial    : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 1/25/2006  03:29 PM
Delay Time     : 0.00   min.
End Time       : 19.00  min.
Sampling Rate  : 10.0000  pts/sec

Raw Data File    : K:\#GTO\#SEQ\A25G6\G#A5007.RAW
Result File      : K:\#GTO\#SEQ\A25G6\G#A5007.rst
Inst Method      : K:\#GTO\#MTHCALB\TCSV0307 from K:\#GTO\#SEQ\A25G6\G#A5007.rst
Proc Method      : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method     : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File    : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume    : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount    : 1.0000                 Dilution Factor  : 1.00

Noise Threshold: 20          Area Threshold   : 2000     Bunch Factor: 4
Multiplier     : 1.0000      Divisor  : 1.0000       Addend  : 0.0000
User1          :                      User2        :
User3          :                      User4        :
User5          :

Instrument Conditions:
Capillary GC     -
  Instrument     : GC3400TCO
  Column         : J&W DB-1 128-1052
  Column Length  : 50m x 0.20 mm x 0.33um
  Carrier Gas    : Helium
  Flow Rate      : 25 cm/s @ 300C
  Split Ratio    : Splitless >50
  Temperature    : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1     : FID, 350C, 1 x 10-12
  Detector 2     :
  Notes          :

Total number of peaks detected: 8
```

Total Chromatographable Organics (C7-C17)

Trial Burn Sampling and Analysis

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
8.121	C10	2131.2	2.1312	2.13	2.13	190035	100	21	85	21	
10.086	C12	2094.2	2.0942	2.09	2.09	186734	100	21	84	21	
11.742	C14	2070.6	2.0706	2.07	2.07	184634	100	21	83	21	
13.845	TCO Surrogates	2.9e-91	2.9e-94	2.88e-94	2.9e-94	288295	100	###	###	###	3
		6296.0	6.2960	6.30	6.30	849699					

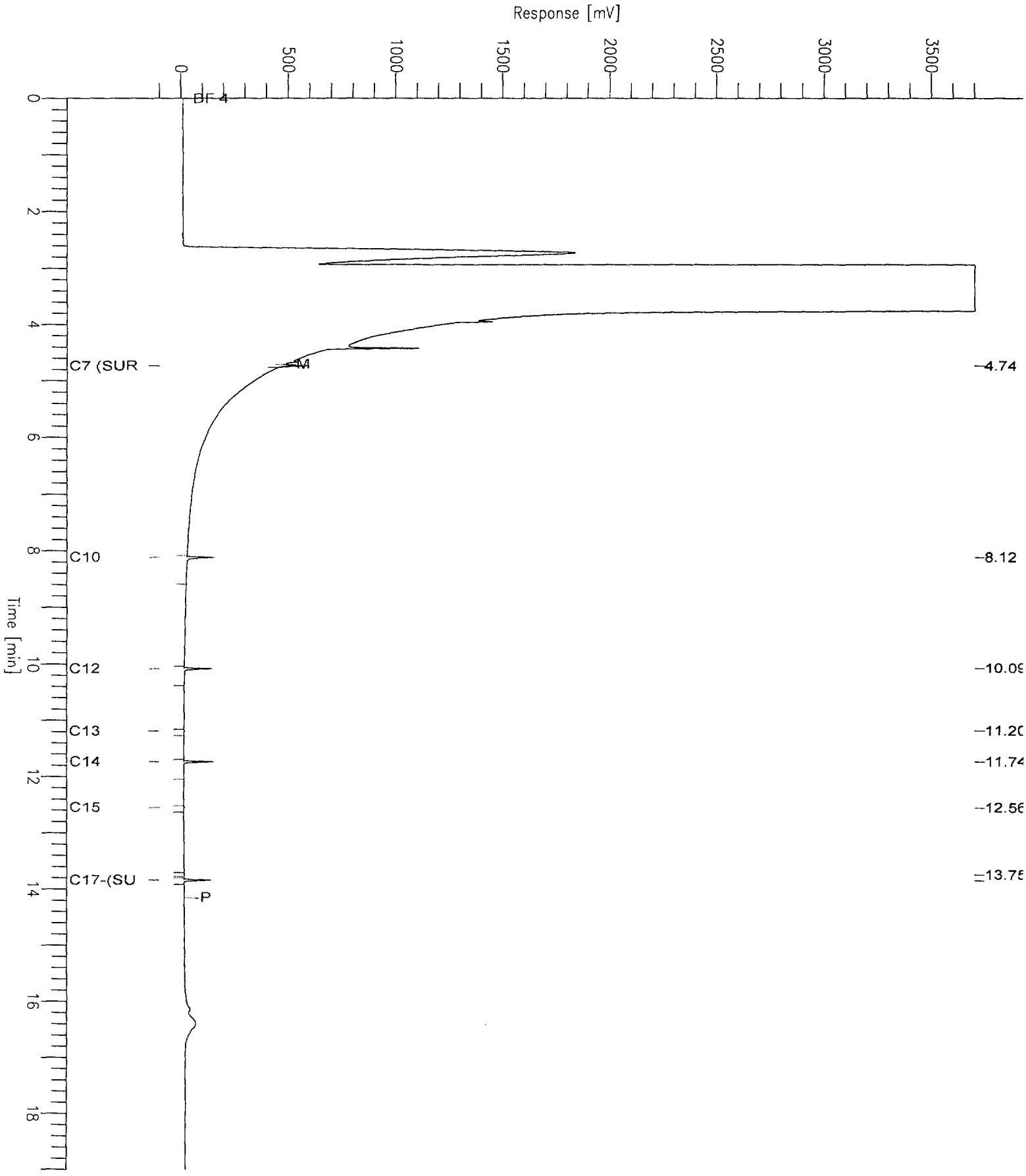
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.742	C7 (SURR) Heptane	1999.9	1.9999	2.00	2.00	120590	100	20	80	20
13.845	C17-(SURR) Heptadeca	2081.0	2.0810	2.08	2.08	167704	100	21	83	21
		4080.9	4.0809	4.08	4.08	288295				

Chromatogram

Sample Name : AI2405 6.0 PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5007.raw
Method : TCSV0307
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

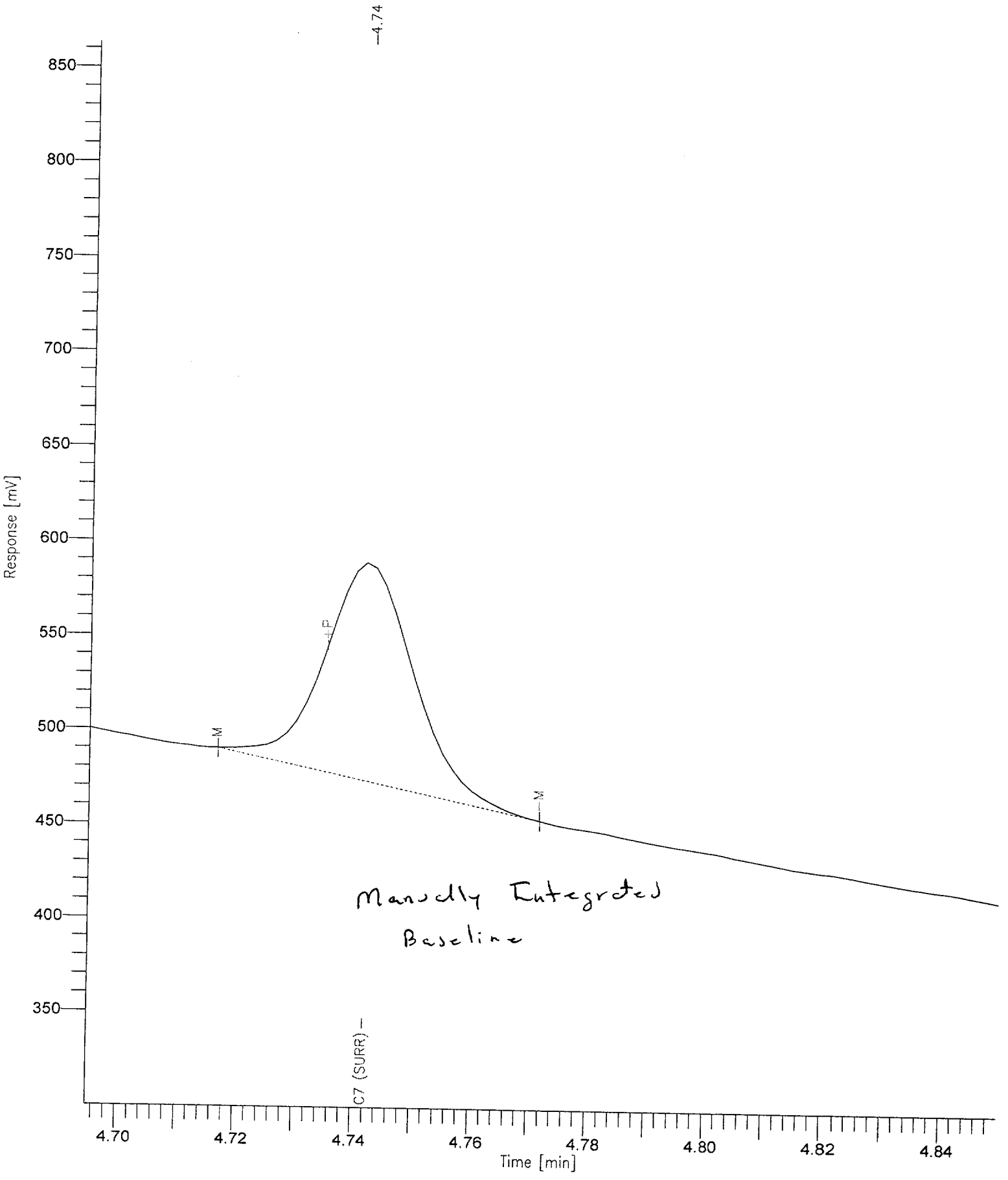
Sample #: 7 Page 1 of 1
Date : 3/28/2006 09:35 AM
Time of Injection: 1/25/2006 03:29 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



Chromatogram

Sample Name : AI2405 6.0 PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5007.RAW
Method :
Start Time : 4.70 min End Time : 4.85 min
Scale Factor: 0.0 Plot Offset: 347 mV

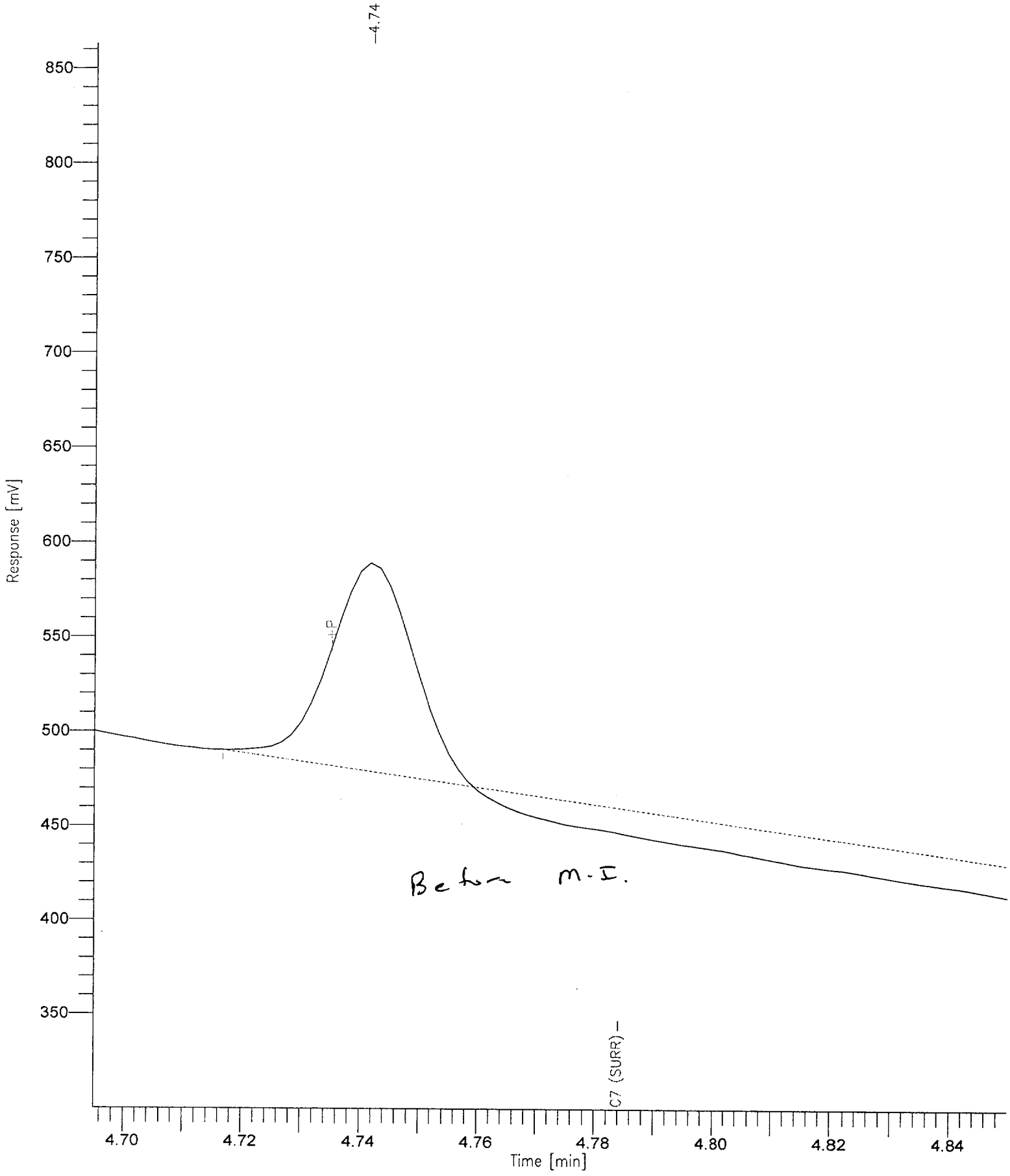
Sample #: 7
Date : 1/26/2006 07:43 AM
Time of Injection: 1/25/2006 03:29 PM
Low Point : 347.06 mV High Point : 863.06 mV
Plot Scale: 516.0 mV



Chromatogram

Sample Name : AI2405 6.0 PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5007.RAW
Method :
Start Time : 4.70 min End Time : 4.85 min
Scale Factor: 0.0 Plot Offset: 347 mV

Sample #: 7 Page 1 of 1
Date : 1/26/2006 07:43 AM
Time of Injection: 1/25/2006 03:29 PM
Low Point : 347.06 mV High Point : 863.06 mV
Plot Scale: 516.0 mV



```
Software Version: 4.1<2F12>
Sample Name  : AI2404 0.6 PPM                    Time  : 3/28/2006  09:35 AM
Sample Number: 8                                 Study : ICAL 3-07-06
Operator     : Analyst

Instrument   : GTO                    Channel : A     A/D mV Range : 10000
AutoSampler  :
Rack/Vial    : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 1/25/2006  03:54 PM
Delay Time     : 0.00   min.
End Time       : 19.00  min.
Sampling Rate  : 10.0000  pts/sec

Raw Data File    : K:\#GTO\#SEQ\A25G6\G#A5008.RAW
Result File      : K:\#GTO\#SEQ\A25G6\G#A5008.rst
Inst Method      : K:\#GTO\#MTHCALB\TCSV0307 from K:\#GTO\#SEQ\A25G6\G#A5008.rst
Proc Method      : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method     : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File    : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume    : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount    : 1.0000                 Dilution Factor  : 1.00

Noise Threshold: 20          Area Threshold   : 2000     Bunch Factor: 4
Multiplier     : 1.0000      Divisor  : 1.0000       Addend  : 0.0000
User1          :                      User2        :
User3          :                      User4        :
User5          :

Instrument Conditions:
Capillary GC     -
  Instrument     : GC3400TCO
  Column         : J&W DB-1 128-1052
  Column Length  : 50m x 0.20 mm x 0.33um
  Carrier Gas    : Helium
  Flow Rate      : 25 cm/s @ 300C
  Split Ratio    : Splitless >50
  Temperature    : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1     : FID, 350C, 1 x 10-12
  Detector 2     :
  Notes          :

Total number of peaks detected: 8
```

Total Chromatographable Organics (C7-C17)

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
8.124	C10	192.1	0.1921	0.19	0.19	17131	100	2	8	2	
10.094	C12	199.4	0.1994	0.20	0.20	17778	100	2	8	2	
11.747	C14	205.9	0.2059	0.21	0.21	18361	100	2	8	2	
13.849	TCO Surrogates	2.6e-92	2.6e-95	2.56e-95	2.6e-95	25575	100	###	###	###	4
		597.5	0.5975	0.60	0.60	78845					

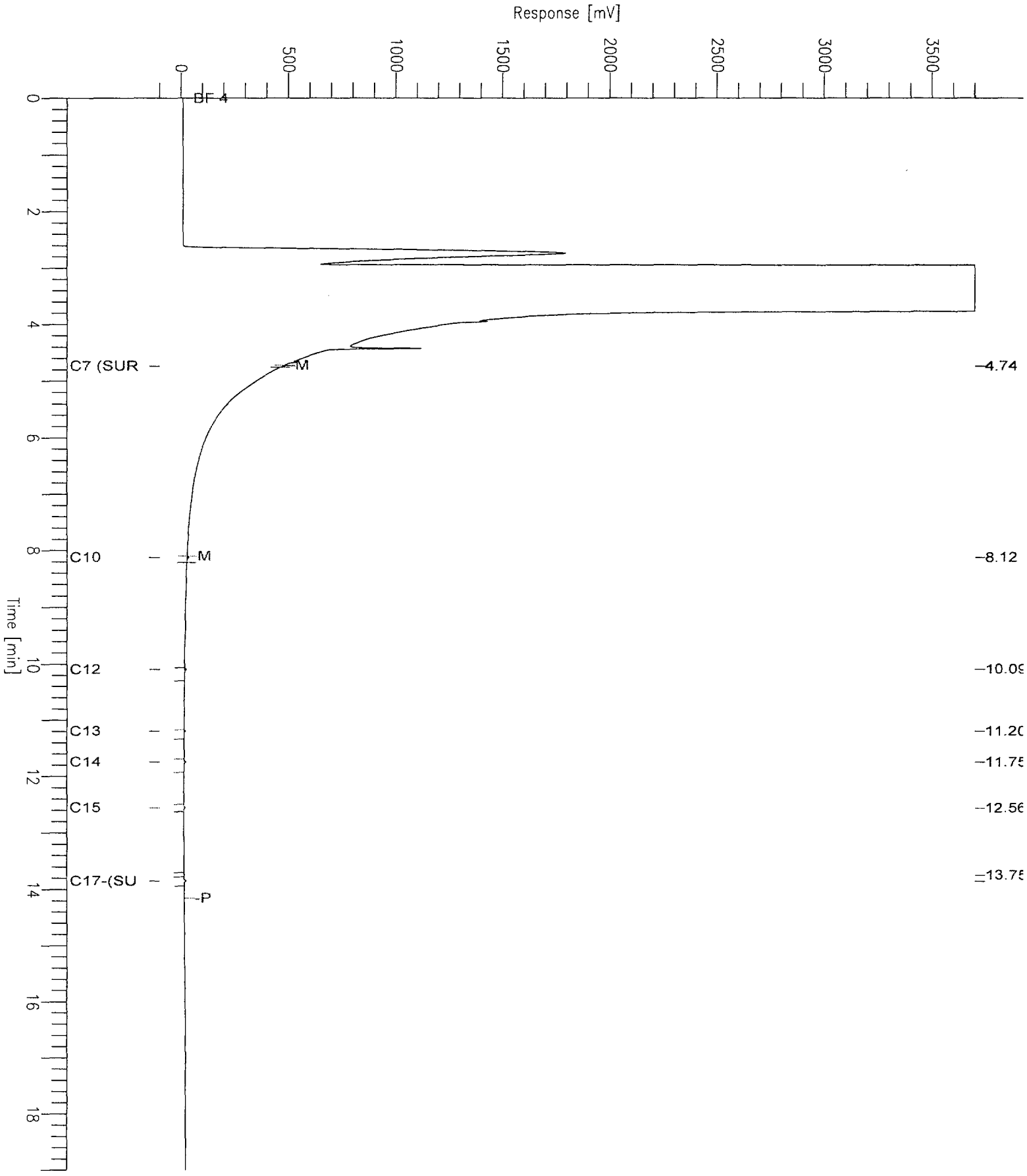
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.736	C7 (SURR) Heptane	173.3	0.1733	0.17	0.17	9127	100	2	7	2
13.849	C17-(SURR) Heptadeca	204.2	0.2042	0.20	0.20	16448	100	2	8	2
		377.5	0.3775	0.38	0.38	25575				

Chromatogram

Sample Name : AI2404 0.6 PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5008.raw
Method : TCSV0307
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

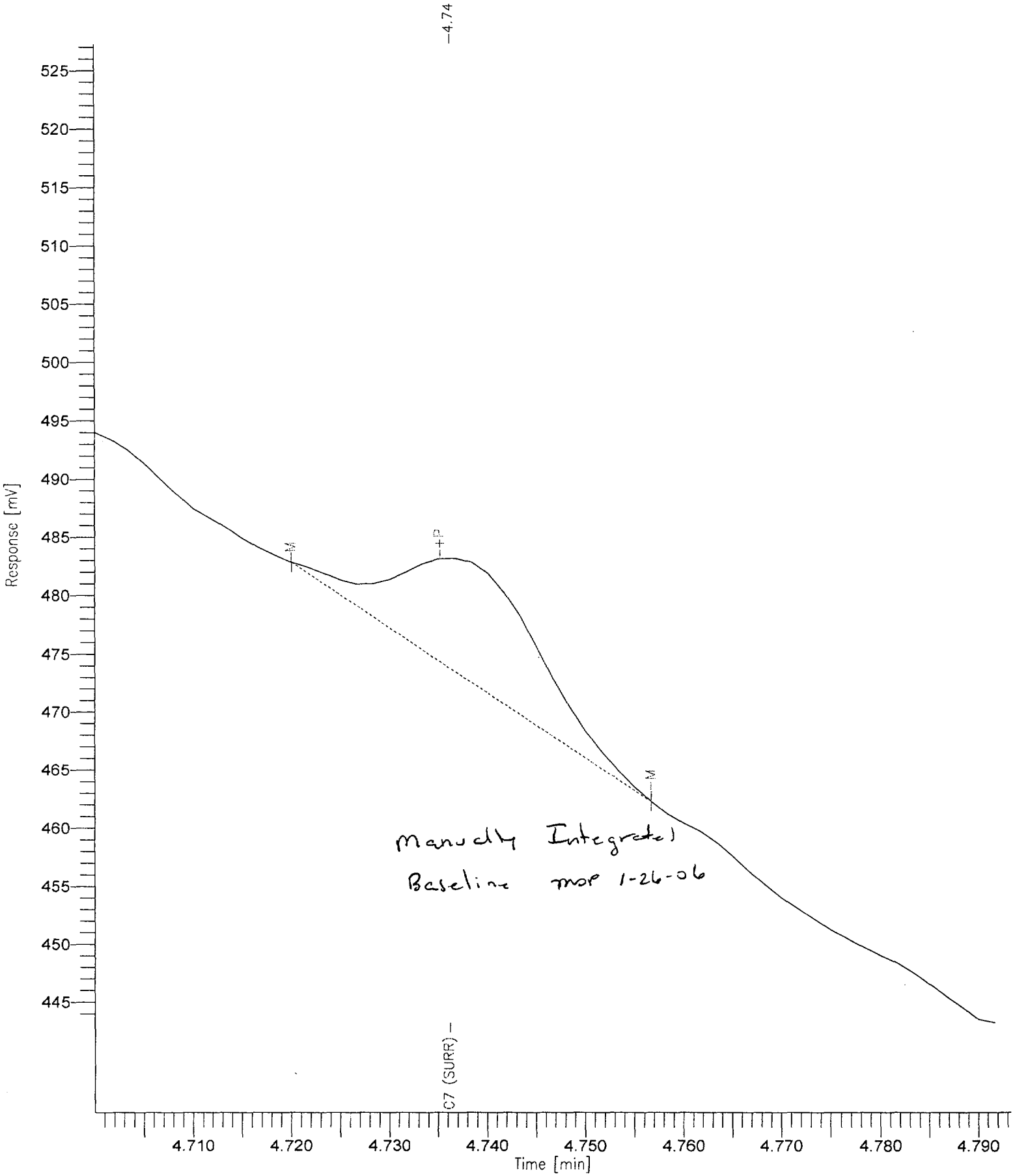
Sample #: 8 Page 1 of 1
Date : 3/28/2006 09:35 AM
Time of Injection: 1/25/2006 03:54 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



Chromatogram

Sample Name : AI2404 0.6 PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5008.RAW
Method :
Start Time : 4.70 min End Time : 4.79 min
Scale Factor: 0.0 Plot Offset: 443 mV

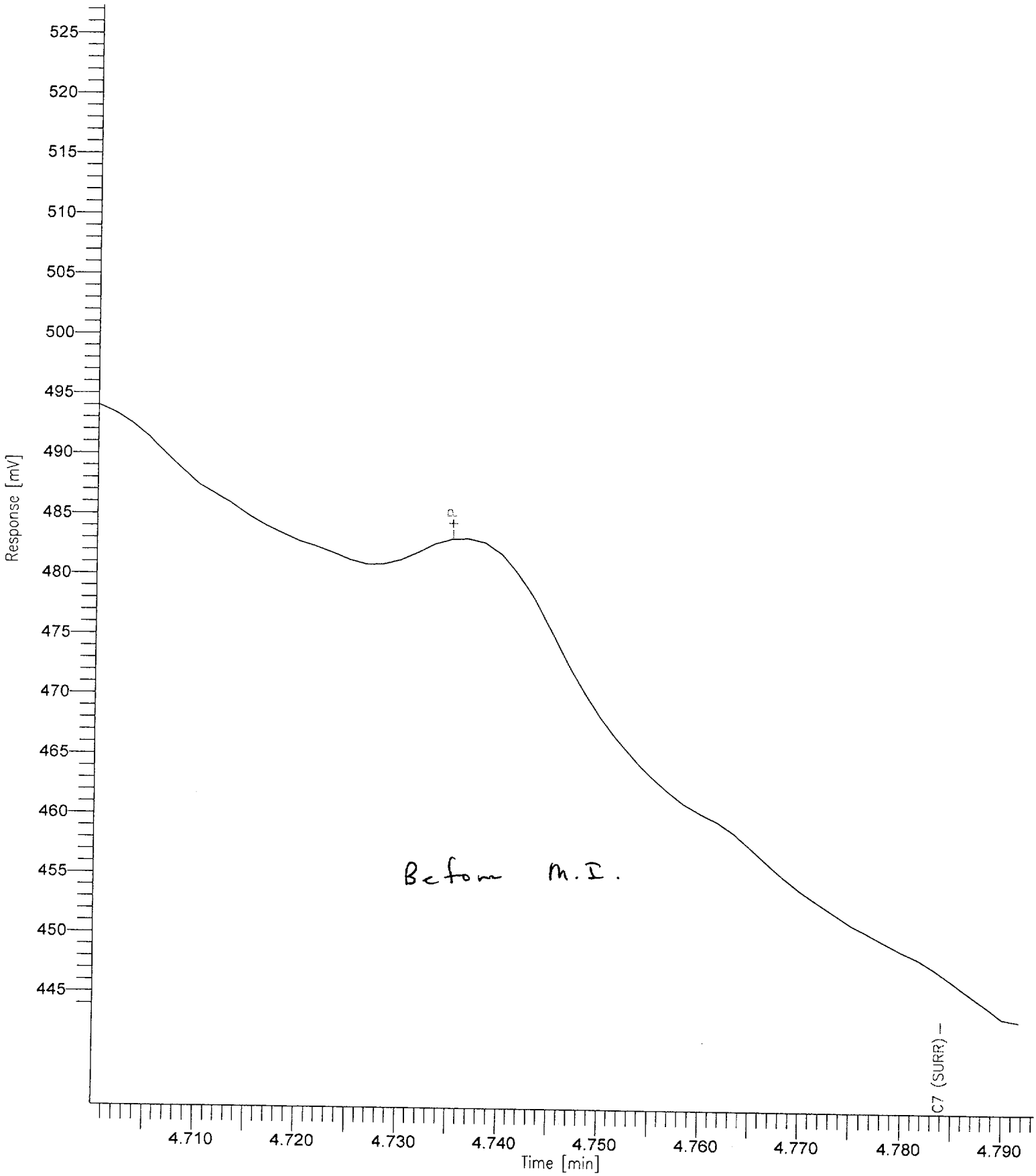
Sample #: 8 Page 1 of 1
Date : 1/26/2006 07:44 AM
Time of Injection: 1/25/2006 03:54 PM
Low Point : 443.16 mV High Point : 527.26 mV
Plot Scale: 84.1 mV



Chromatogram

Sample Name : AI2404 0.6 PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5008.RAW
Method :
Start Time : 4.70 min End Time : 4.79 min
Scale Factor: 0.0 Plot Offset: 443 mV

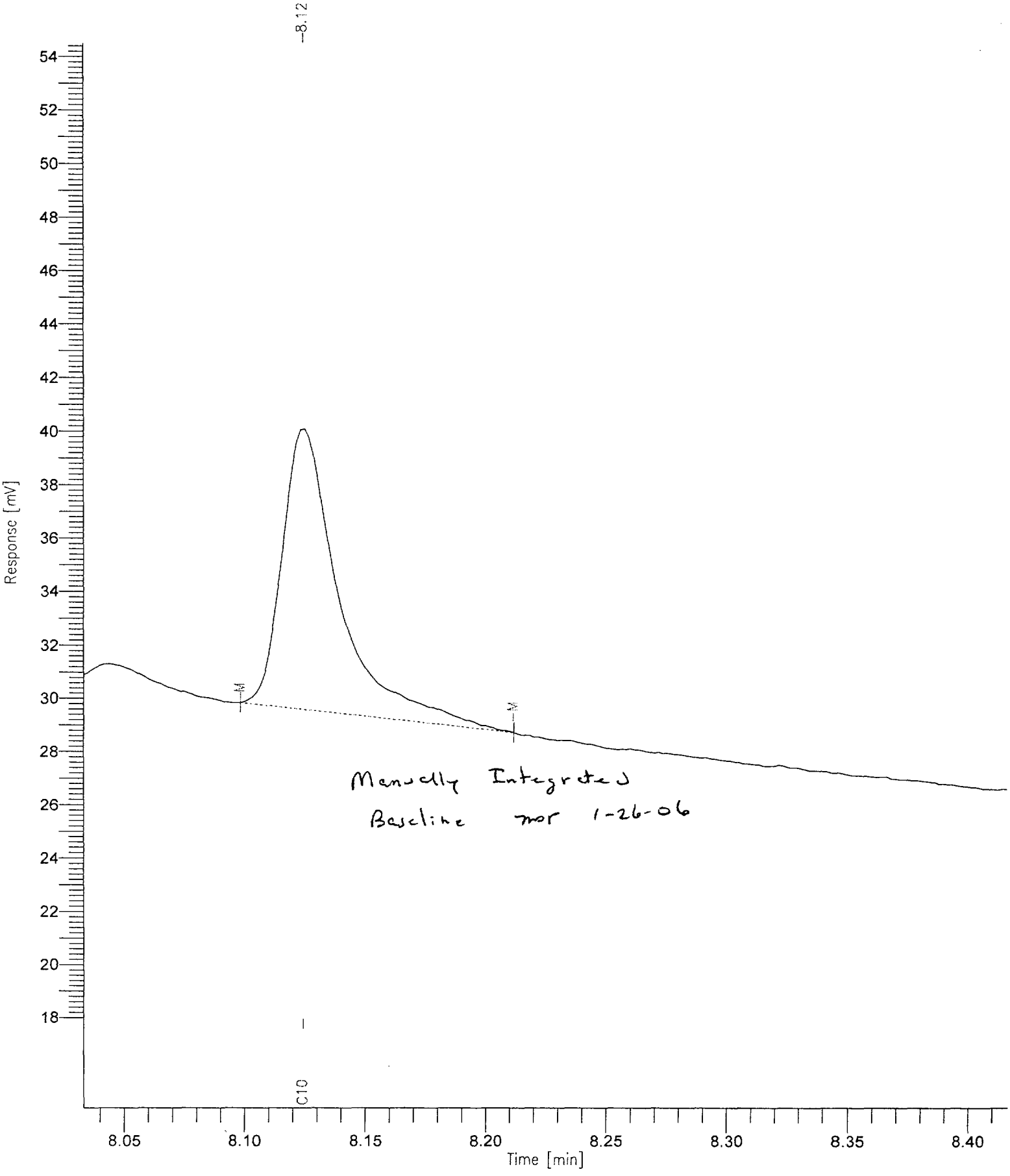
Sample #: 8 Page 1 of 1
Date : 1/26/2006 07:44 AM
Time of Injection: 1/25/2006 03:54 PM
Low Point : 443.16 mV High Point : 527.26 mV
Plot Scale: 84.1 mV



Chromatogram

Sample Name : AI2404 0.6 PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5008.RAW
Method :
Start Time : 8.03 min End Time : 8.42 min
Scale Factor: 0.0 Plot Offset: 18 mV

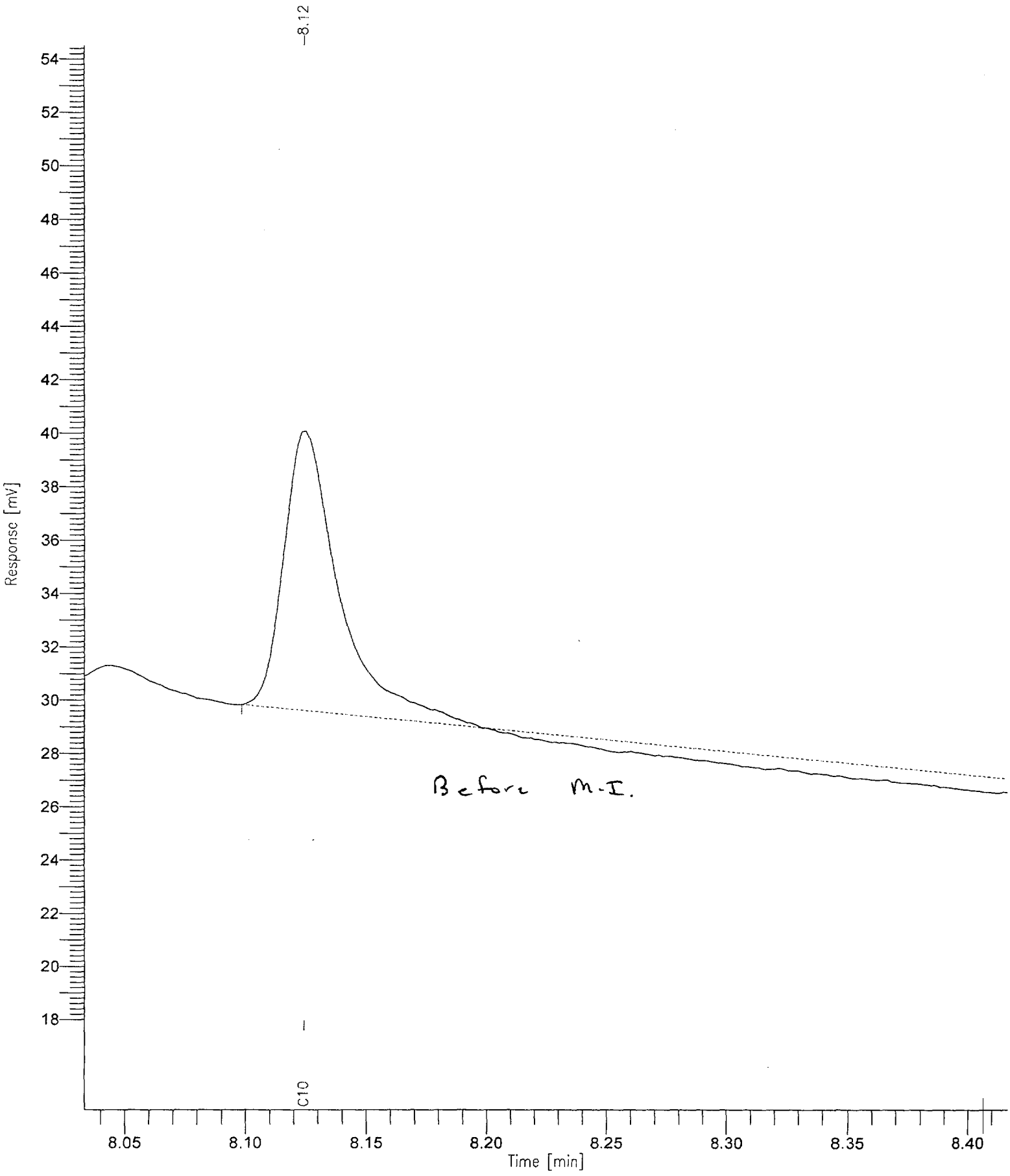
Sample #: 8 Page 1 of 1
Date : 1/26/2006 07:44 AM
Time of Injection: 1/25/2006 03:54 PM
Low Point : 17.95 mV High Point : 54.49 mV
Plot Scale: 36.5 mV



Chromatogram

Sample Name : AI2404 0.6 PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5008.RAW
Method :
Start Time : 8.03 min End Time : 8.42 min
Scale Factor: 0.0 Plot Offset: 18 mV

Sample #: 8 Page 1 of 1
Date : 1/26/2006 07:44 AM
Time of Injection: 1/25/2006 03:54 PM
Low Point : 17.95 mV High Point : 54.49 mV
Plot Scale: 36.5 mV



```
Software Version: 4.1<2F12>
Sample Name   : AI2187 30 PPM                    Time   : 1/26/2006  09:36 AM
Sample Number: 9                                 Study  : 2ND SOURCE
Operator      : Analyst

Instrument    : GTO                    Channel : A     A/D mV Range : 10000
AutoSampler   :
Rack/Vial     : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 1/25/2006  04:20 PM
Delay Time      : 0.00   min.
End Time        : 19.00  min.
Sampling Rate   : 10.0000  pts/sec

Raw Data File     : K:\#GTO\#SEQ\A25G6\G#A5009.RAW
Result File       : K:\#GTO\#SEQ\A25G6\G#A5009.rst
Inst Method       : K:\#GTO\#MTHCALB\TCSV0307 from K:\#GTO\#SEQ\A25G6\G#A5009.rst
Proc Method       : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method      : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File     : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume     : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount     : 1.0000                 Dilution Factor  : 1.00

Noise Threshold: 20           Area Threshold   : 2000     Bunch Factor: 4
Multiplier      : 1.0000      Divisor  : 1.0000       Addend  : 0.0000
User1           :                      User2         :
User3           :                      User4         :
User5           :

Instrument Conditions:
Capillary GC      -
  Instrument      : GC3400TCO
  Column          : J&W DB-1 128-1052
  Column Length   : 50m x 0.20 mm x 0.33um
  Carrier Gas     : Helium
  Flow Rate       : 25 cm/s @ 300C
  Split Ratio     : Splitless >50
  Temperature     : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1      : FID, 350C, 1 x 10-12
  Detector 2      :
  Notes           :

Total number of peaks detected: 9
```

Total Chromatographable Organics (C7-C17)

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
8.122	C10	9155.5	9.1555	9.16	9.16	816588	100	92	366	92	
10.086	C12	8762.6	8.7626	8.76	8.76	781540	100	88	351	88	
11.741	C14	8936.0	8.9360	8.94	8.94	797010	100	89	357	89	
13.845	TCO Surrogates	1.3e-90	1.3e-93	1.27e-93	1.3e-93	1274778	100	###	###	###	2
		26854.1	26.8541	26.85	26.85	3669916					

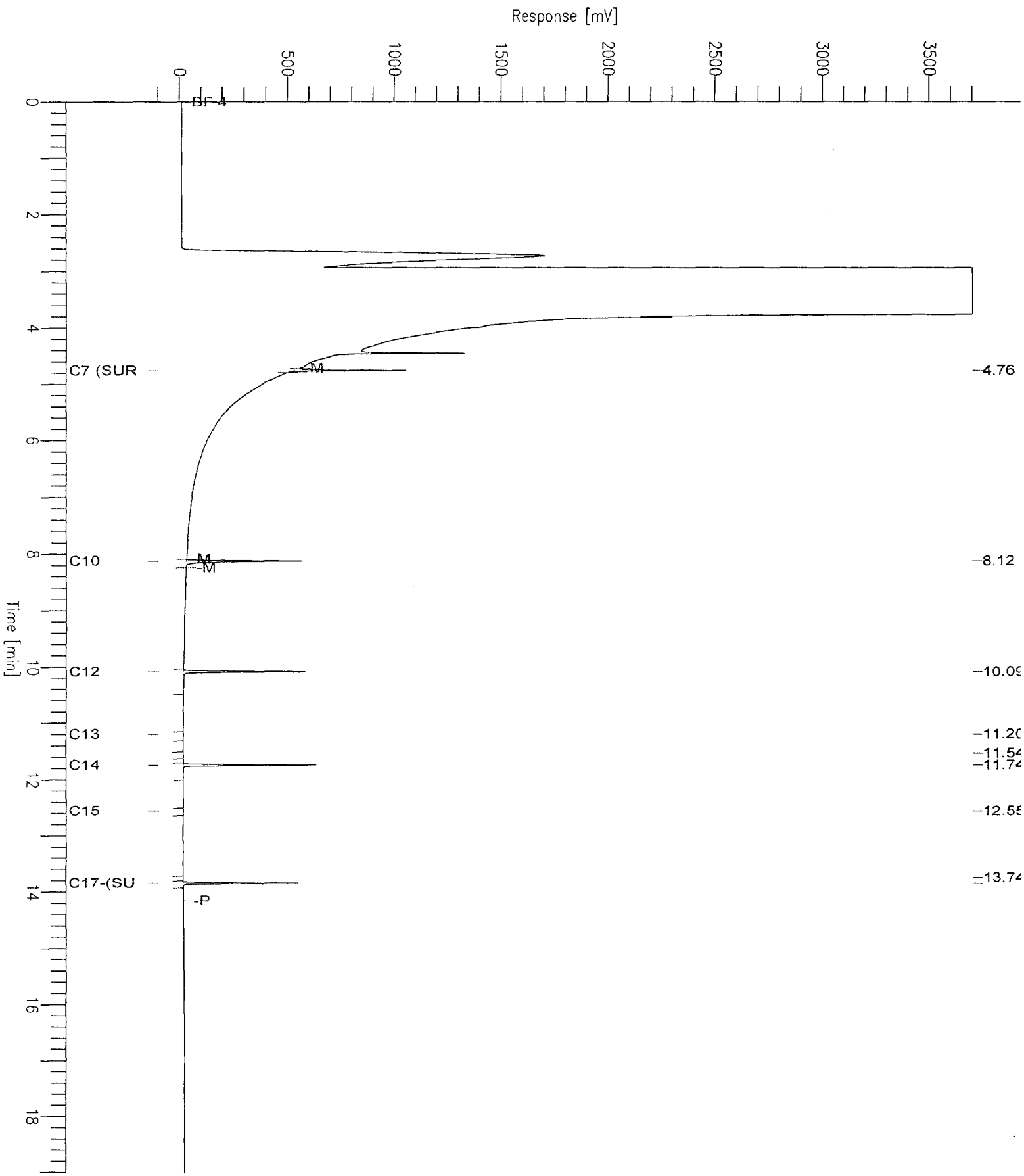
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.760	C7 (SURR) Heptane	9307.0	9.3070	9.31	9.31	578221	100	93	372	93
13.845	C17-(SURR) Heptadeca	8631.2	8.6312	8.63	8.63	696557	100	86	345	86
		17938.2	17.9382	17.94	17.94	1274778				

Chromatogram

Sample Name : AI2187 30 PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5009.raw
Method : TCSV0307
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

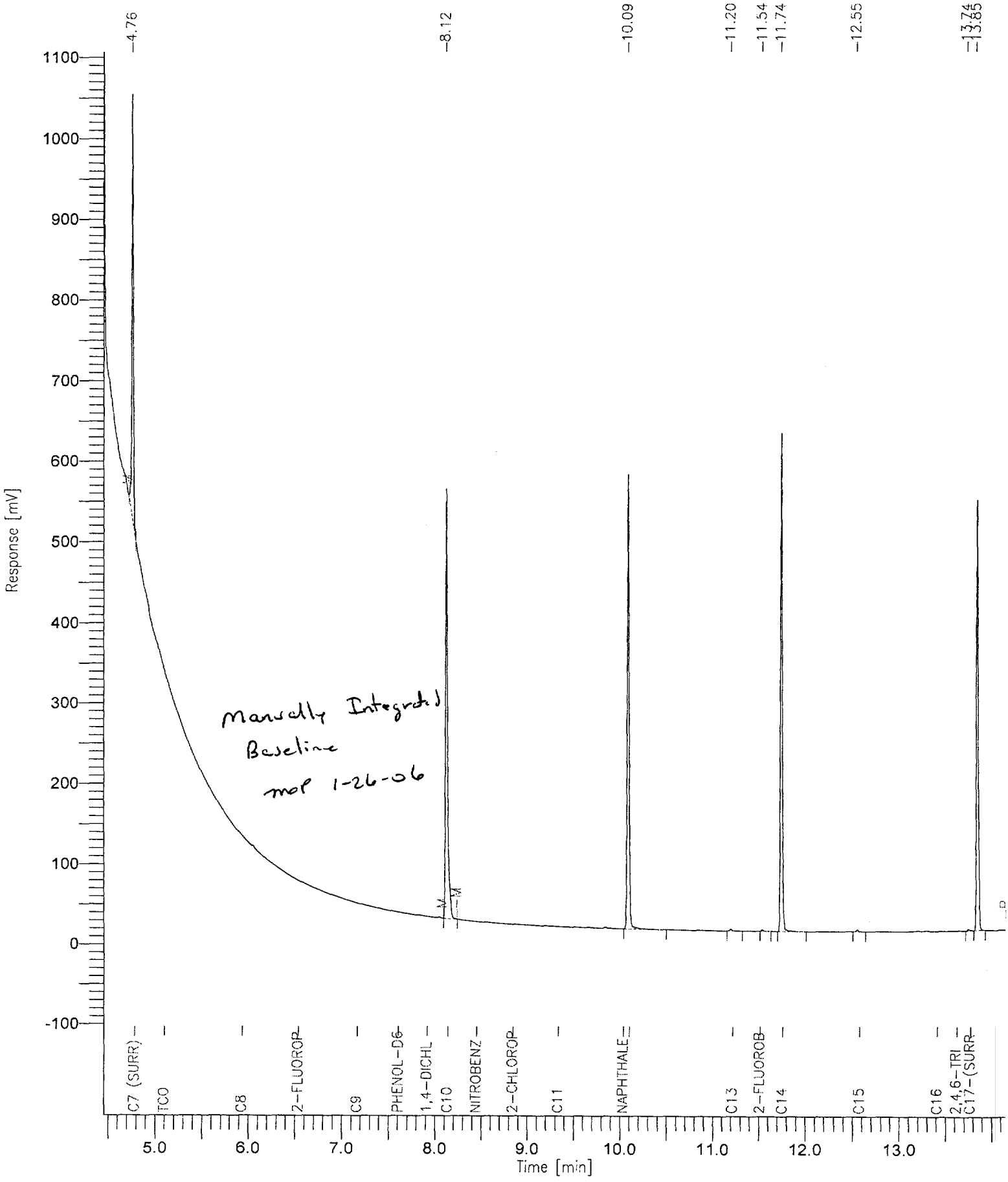
Sample #: 9 Page 1 of 1
Date : 1/26/2006 09:36 AM
Time of Injection: 1/25/2006 04:20 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



Chromatogram

Sample Name : AI2187 30 PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5009.RAW
Method :
Start Time : 4.45 min End Time : 14.15 min
Scale Factor: 0.0 Plot Offset: -103 mV

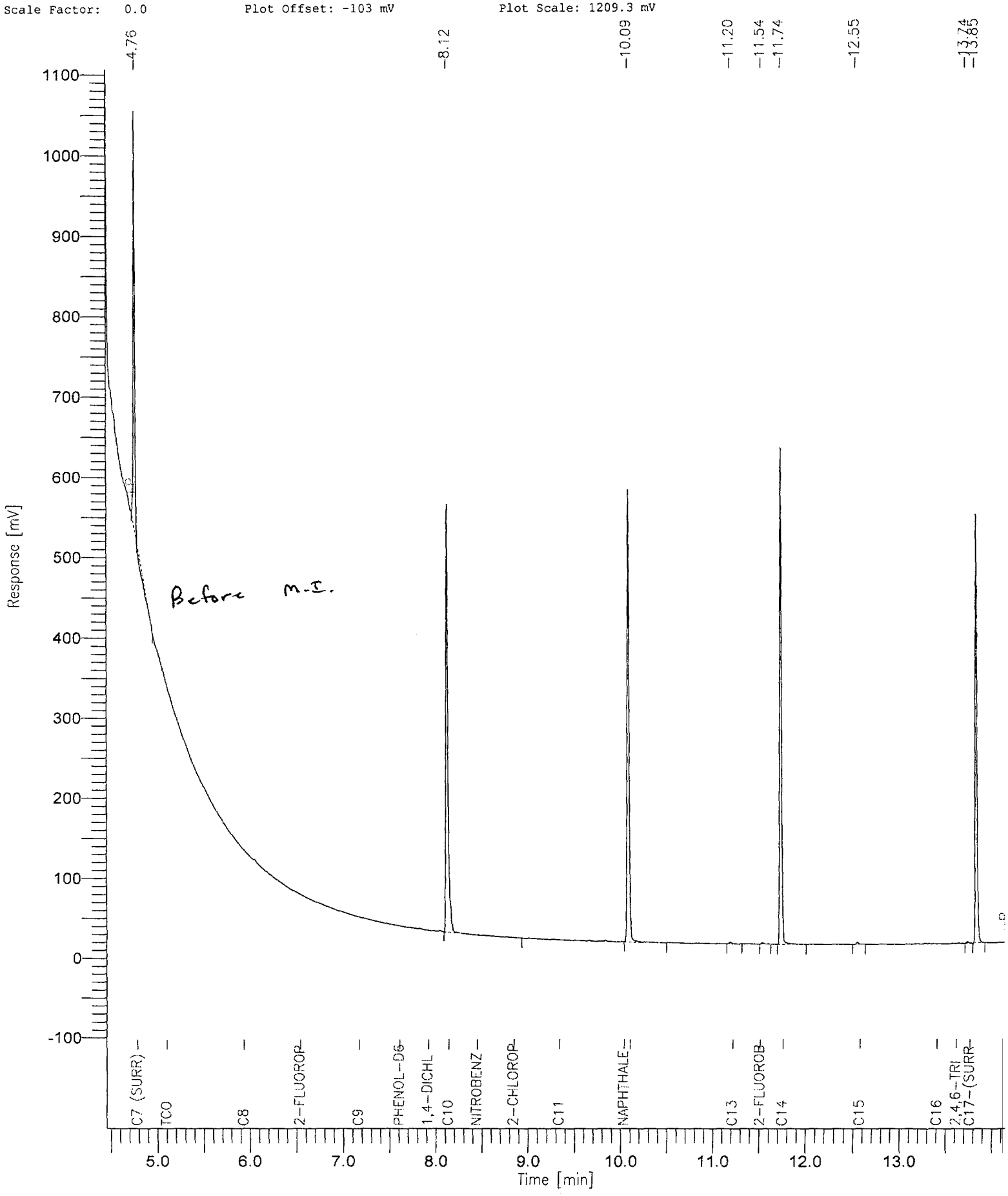
Sample #: 9 Page 1 of 1
Date : 1/26/2006 09:34 AM
Time of Injection: 1/25/2006 04:20 PM
Low Point : -102.82 mV High Point : 1106.46 mV
Plot Scale: 1209.3 mV



Chromatogram

Sample Name : AI2187 30 PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5009.RAW
Method :
Start Time : 4.45 min End Time : 14.15 min
Scale Factor: 0.0 Plot Offset: -103 mV

Sample #: 9
Date : 1/26/2006 09:34 AM
Time of Injection: 1/25/2006 04:20 PM
Low Point : -102.82 mV High Point : 1106.46 mV
Plot Scale: 1209.3 mV



```
Software Version: 4.1<2F12>
Sample Name  : BLANK                              Time  : 4/16/2006  11:43 AM
Sample Number: 184                                Study :
Operator     : Analyst

Instrument   : GTO                        Channel : A     A/D mV Range : 10000
AutoSampler  :
Rack/Vial    : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 4/16/2006  11:24 AM
Delay Time     : 0.00   min.
End Time       : 19.00  min.
Sampling Rate  : 10.0000  pts/sec

Raw Data File    : K:\#GTO\#SEQ\A25G6\G#A5184.RAW
Result File      : K:\#GTO\#SEQ\A25G6\G#A5184.RST
Inst Method      : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5184.RST
Proc Method      : K:\#GTO\#MTHCALB\TC00125
Calib Method     : K:\#GTO\#MTHCALB\TC00125
Sequence File    : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume    : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount    : 1.0000                 Dilution Factor  : 1.00

Noise Threshold: 20          Area Threshold   : 2000     Bunch Factor: 4
Multiplier     : 1.0000      Divisor  : 1.0000       Addend  : 0.0000
User1          :                      User2        :
User3          :                      User4        :
User5          :

Instrument Conditions:
Capillary GC     -
  Instrument     : GC3400TCO
  Column         : J&W DB-1 128-1052
  Column Length  : 50m x 0.20 mm x 0.33um
  Carrier Gas    : Helium
  Flow Rate      : 25 cm/s @ 300C
  Split Ratio    : Splitless >50
  Temperature    : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1     : FID, 350C, 1 x 10-12
  Detector 2     :
  Notes          :

Total number of peaks detected: 3
```

Total Chromatographable Organics (C7-C17)

==========

Trial Burn Sampling and Analysis

==========

No peaks available to report

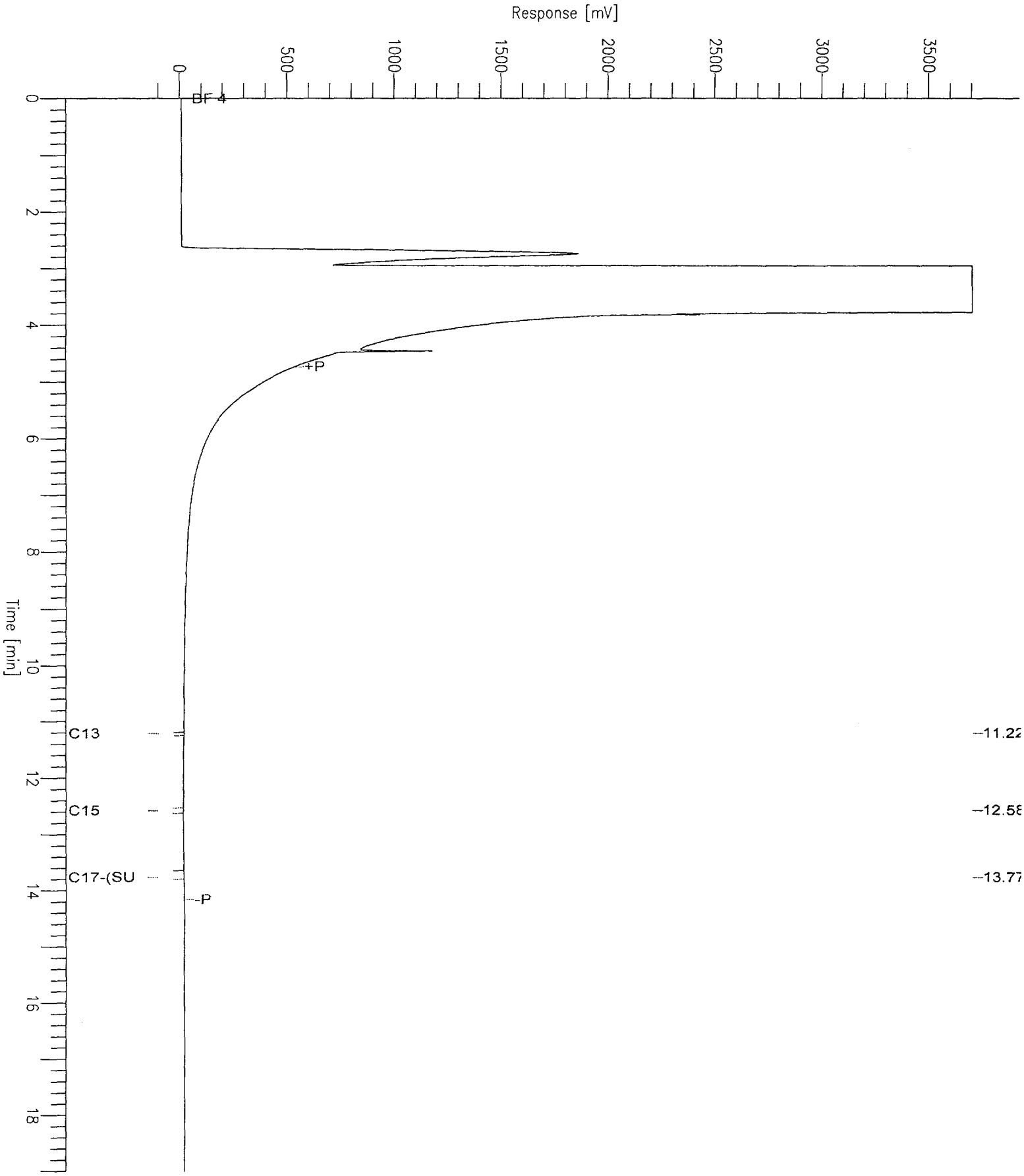
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.746	C7 (SURR) Heptane	0.0	0.0000	0.00	0.00	0	100	0	0	0
13.766	C17-(SURR) Heptadeca	31.6	0.0316	0.03	0.03	2549	100	0	1	0
		31.6	0.0316	0.03	0.03	2549				

Chromatogram

Sample Name : BLANK
FileName : K:\#GTO\#SEQ\A25G6\G#A5184.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

Sample #: 184 Page 1 of 1
Date : 4/16/2006 11:44 AM
Time of Injection: 4/16/2006 11:24 AM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



```
Software Version: 4.1<2F12>
Sample Name  : AI2407 30PPM                    Time  : 4/17/2006  09:27 AM
Sample Number: 185                             Study : CCV
Operator     : Analyst

Instrument   : GTO                    Channel : A     A/D mV Range : 10000
AutoSampler  :
Rack/Vial    : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 4/16/2006  11:50 AM
Delay Time     : 0.00   min.
End Time       : 19.00  min.
Sampling Rate  : 10.0000  pts/sec

Raw Data File    : K:\#GTO\#SEQ\A25G6\G#A5185.RAW
Result File      : K:\#GTO\#SEQ\A25G6\G#A5185.rst
Inst Method      : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5185.rst
Proc Method      : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method     : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File    : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume    : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount    : 1.0000                 Dilution Factor  : 1.00

Noise Threshold: 20          Area Threshold   : 2000     Bunch Factor: 4
Multiplier     : 0.0100      Divisor  : 1.0000       Addend  : 0.0000
User1          :                      User2        :
User3          :                      User4        :
User5          :

Instrument Conditions:
Capillary GC     -
  Instrument     : GC3400TCO
  Column         : J&W DB-1 128-1052
  Column Length  : 50m x 0.20 mm x 0.33um
  Carrier Gas    : Helium
  Flow Rate      : 25 cm/s @ 300C
  Split Ratio    : Splitless >50
  Temperature    : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1     : FID, 350C, 1 x 10-12
  Detector 2     :
  Notes          :

Total number of peaks detected: 11
```

Total Chromatographable Organics (C7-C17)

==========

Trial Burn Sampling and Analysis

==========

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
8.141	C10	104.0	0.1040	10.40	10.40	927583	100	104	416	104	
10.106	C12	99.9	0.0999	9.99	9.99	891330	100	100	400	100	
11.763	C14	98.7	0.0987	9.87	9.87	880390	100	99	395	99	
13.868	TCO Surrogates	1.5e-92	1.5e-95	1.47e-93	1.5e-93	1468859	100	###	###	###	2
		302.6	0.3026	30.26	30.26	4168162					

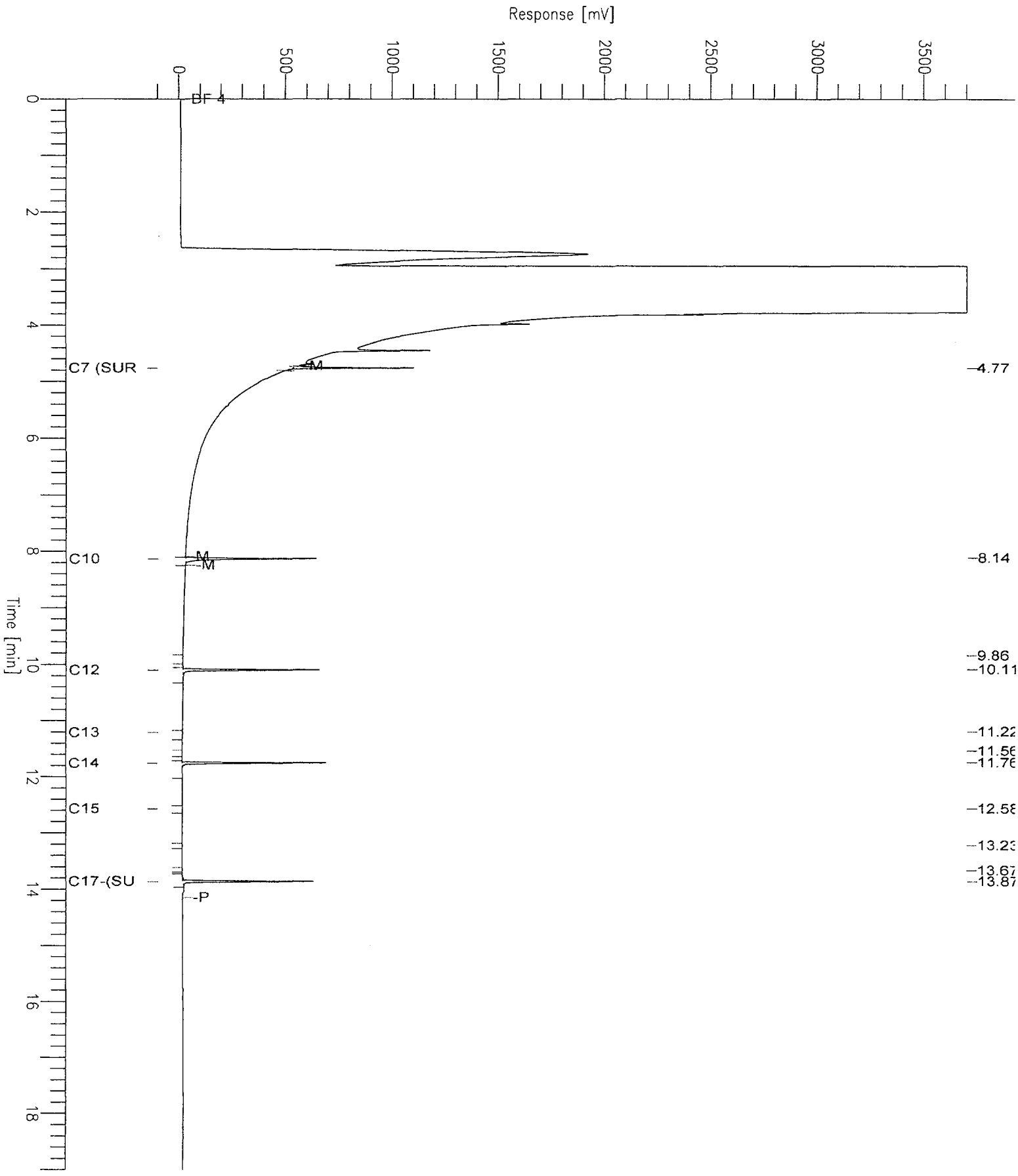
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.768	C7 (SURR) Heptane	100.5	0.1005	10.05	10.05	626048	100	101	402	101
13.868	C17-(SURR) Heptadeca	104.4	0.1044	10.44	10.44	842811	100	104	418	104
		204.9	0.2049	20.49	20.49	1468859				

Chromatogram

Sample Name : AI2407 30PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5185.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

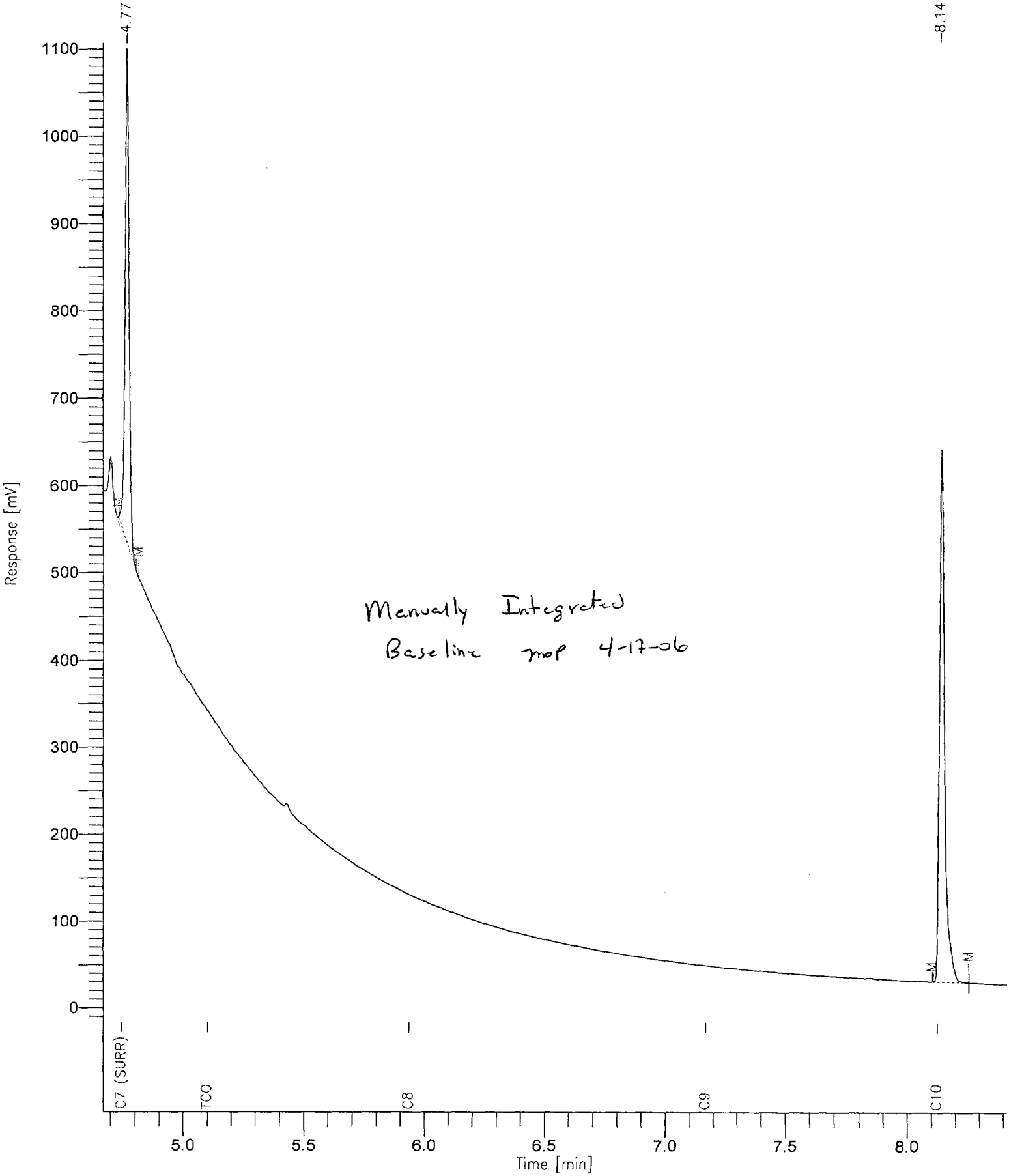
Sample #: 185 Page 1 of 1
Date : 4/17/2006 09:27 AM
Time of Injection: 4/16/2006 11:50 AM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



Chromatogram

Sample Name : AI2407 30PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5185.RAW
Method :
Start Time : 4.67 min End Time : 8.41 min
Scale Factor: 0.0 Plot Offset: -17 mV

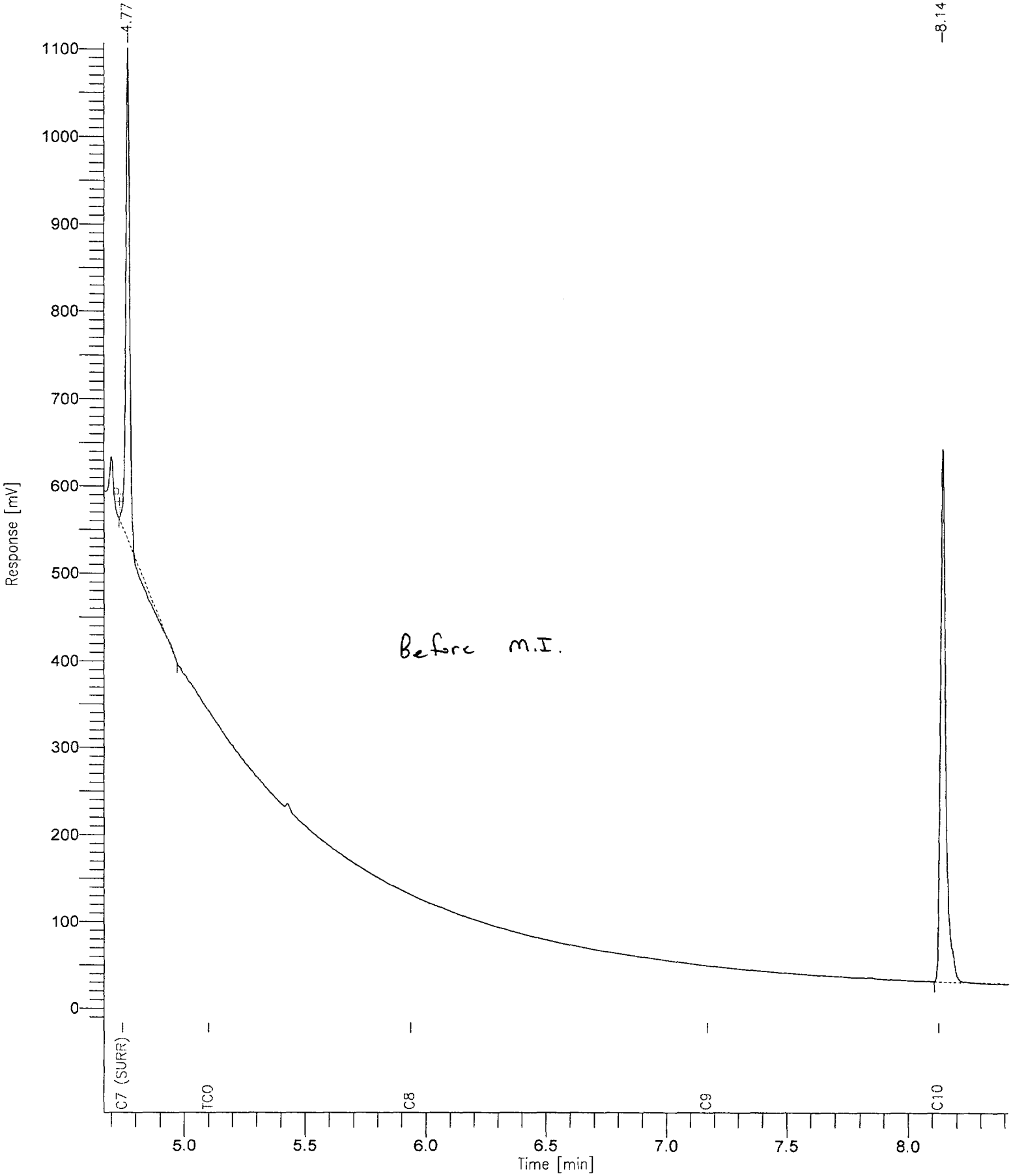
Sample #: 185 Page 1 of 1
Date : 4/17/2006 09:24 AM
Time of Injection: 4/16/2006 11:50 AM
Low Point : -16.88 mV High Point : 1106.48 mV
Plot Scale: 1123.4 mV



Chromatogram

Sample Name : AI2407 30PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5185.RAW
Method :
Start Time : 4.67 min End Time : 8.41 min
Scale Factor: 0.0 Plot Offset: -17 mV

Sample #: 185 Page 1 of 1
Date : 4/17/2006 09:24 AM
Time of Injection: 4/16/2006 11:50 AM
Low Point : -16.88 mV High Point : 1106.48 mV
Plot Scale: 1123.4 mV



Before M.I.

```
Software Version: 4.1<2F12>
Sample Name  : AI2407 30PPM                    Time  : 4/17/2006  09:27 AM
Sample Number: 203                            Study : CCV
Operator     : Analyst

Instrument   : GTO                    Channel : A     A/D mV Range : 10000
AutoSampler  :
Rack/Vial    : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 4/16/2006  07:33 PM
Delay Time     : 0.00   min.
End Time       : 19.00  min.
Sampling Rate  : 10.0000  pts/sec

Raw Data File    : K:\#GTO\#SEQ\A25G6\G#A5203.RAW
Result File      : K:\#GTO\#SEQ\A25G6\G#A5203.rst
Inst Method      : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5203.rst
Proc Method      : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method     : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File    : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume    : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount    : 1.0000                 Dilution Factor  : 1.00

Noise Threshold: 20          Area Threshold   : 2000     Bunch Factor: 4
Multiplier     : 0.0100      Divisor  : 1.0000       Addend  : 0.0000
User1          :                     User2        :
User3          :                     User4        :
User5          :

Instrument Conditions:
Capillary GC     -
  Instrument     : GC3400TCO
  Column         : J&W DB-1 128-1052
  Column Length  : 50m x 0.20 mm x 0.33um
  Carrier Gas    : Helium
  Flow Rate      : 25 cm/s @ 300C
  Split Ratio    : Splitless >50
  Temperature    : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1     : FID, 350C, 1 x 10-12
  Detector 2     :
  Notes          :

Total number of peaks detected: 11
```

Total Chromatographable Organics (C7-C17)

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
5.438		3.4	0.0034	0.34	0.34	30353	100	3	14	3	
8.142	C10	107.5	0.1075	10.75	10.75	958948	100	108	430	108	
10.108	C12	103.9	0.1039	10.39	10.39	926752	100	104	416	104	
11.764	C14	101.7	0.1017	10.17	10.17	907510	100	102	407	102	
13.869	TCO Surrogates	1.5e-92	1.5e-95	1.51e-93	1.5e-93	1509313	100	###	###	###	2
		316.6	0.3166	31.66	31.66	4332877					

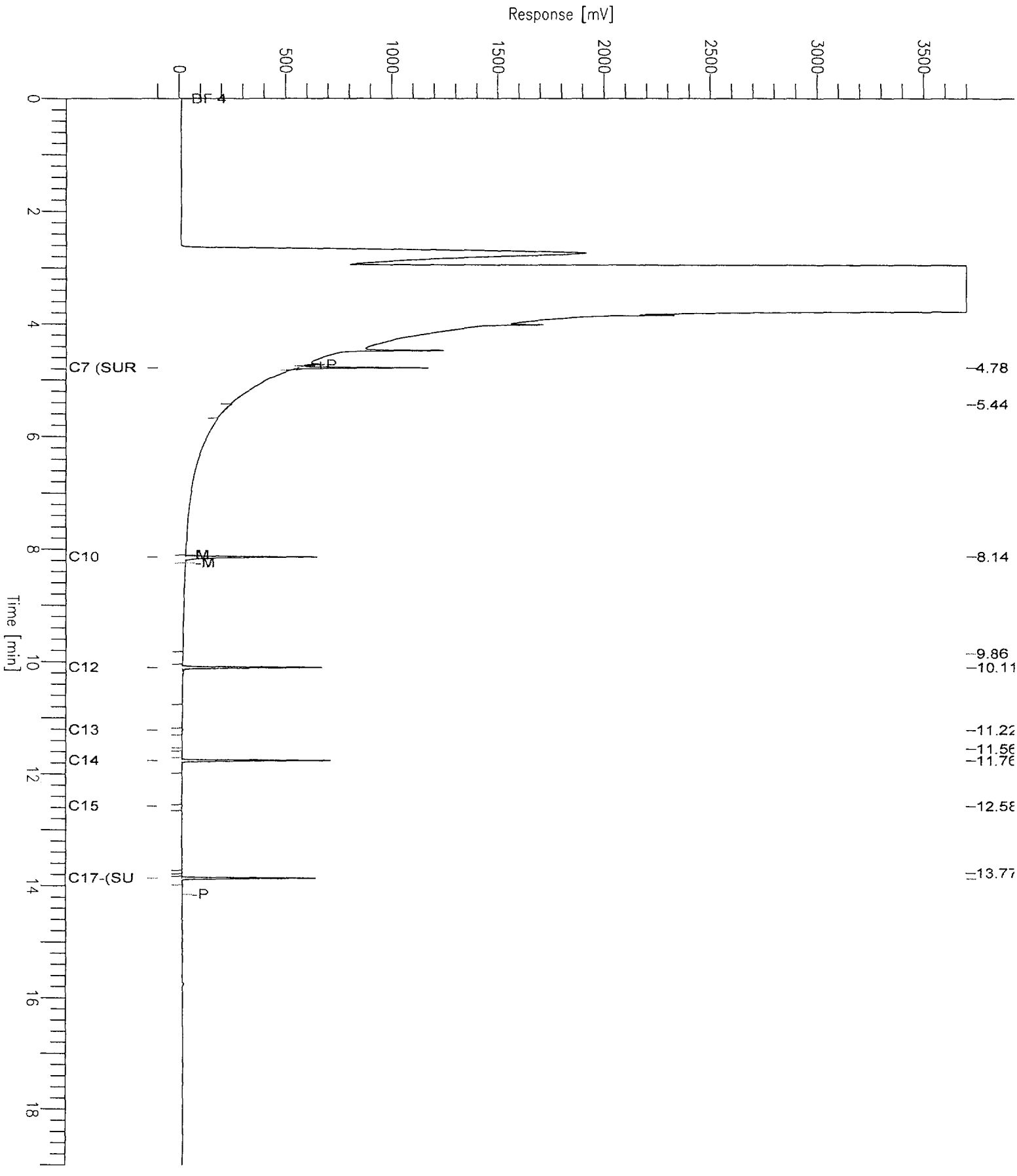
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.784	C7 (SURR) Heptane	107.8	0.1078	10.78	10.78	672706	100	108	431	108
13.869	C17-(SURR) Heptadeca	103.6	0.1036	10.36	10.36	836607	100	104	415	104
		211.4	0.2114	21.14	21.14	1509313				

Chromatogram

Sample Name : AI2407 30PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5203.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

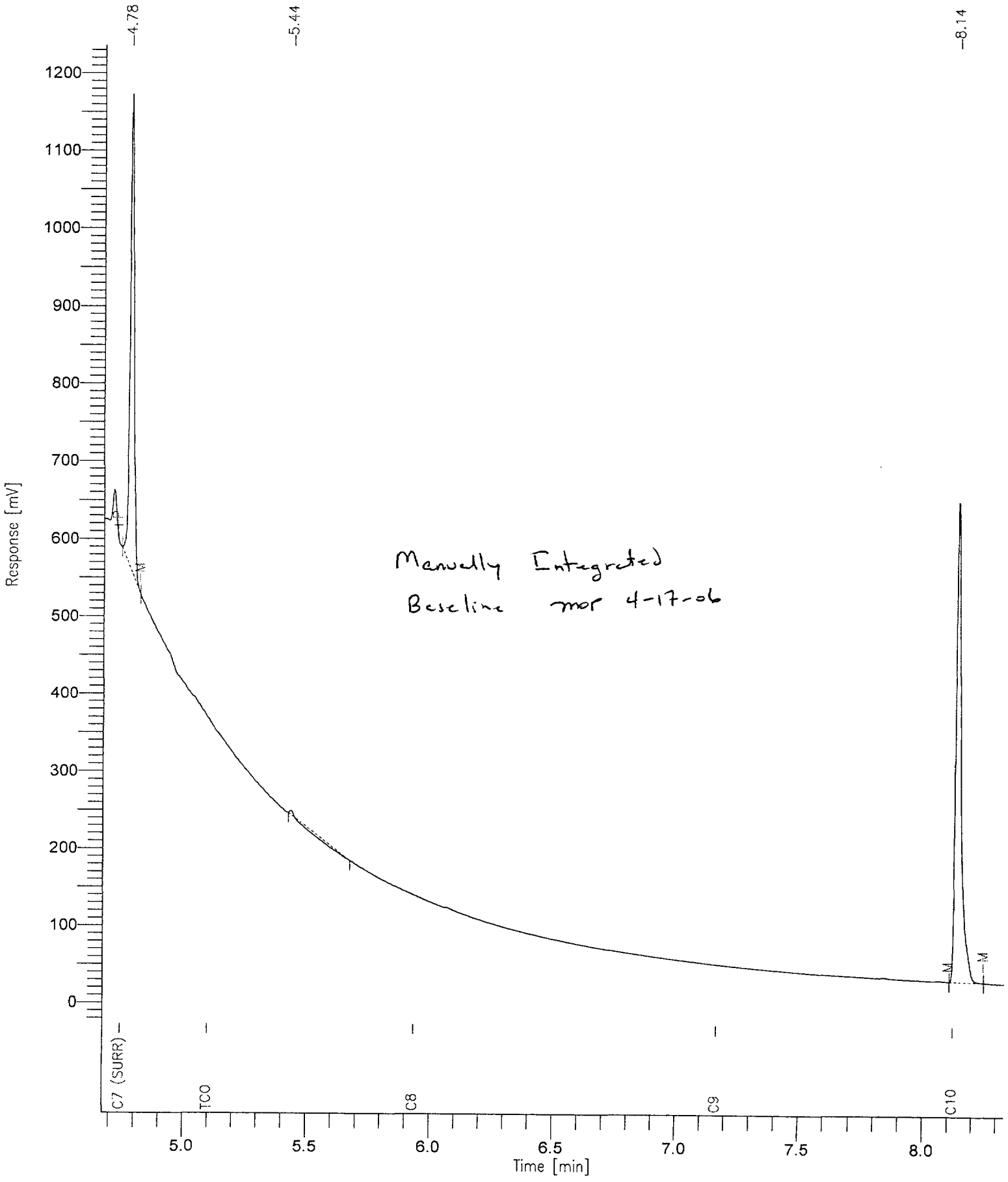
Sample #: 203 Page 1 of 1
Date : 4/17/2006 09:27 AM
Time of Injection: 4/16/2006 07:33 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



Chromatogram

Sample Name : AI2407 30PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5203.RAW
Method :
Start Time : 4.68 min End Time : 8.34 min
Scale Factor: 0.0 Plot Offset: -28 mV

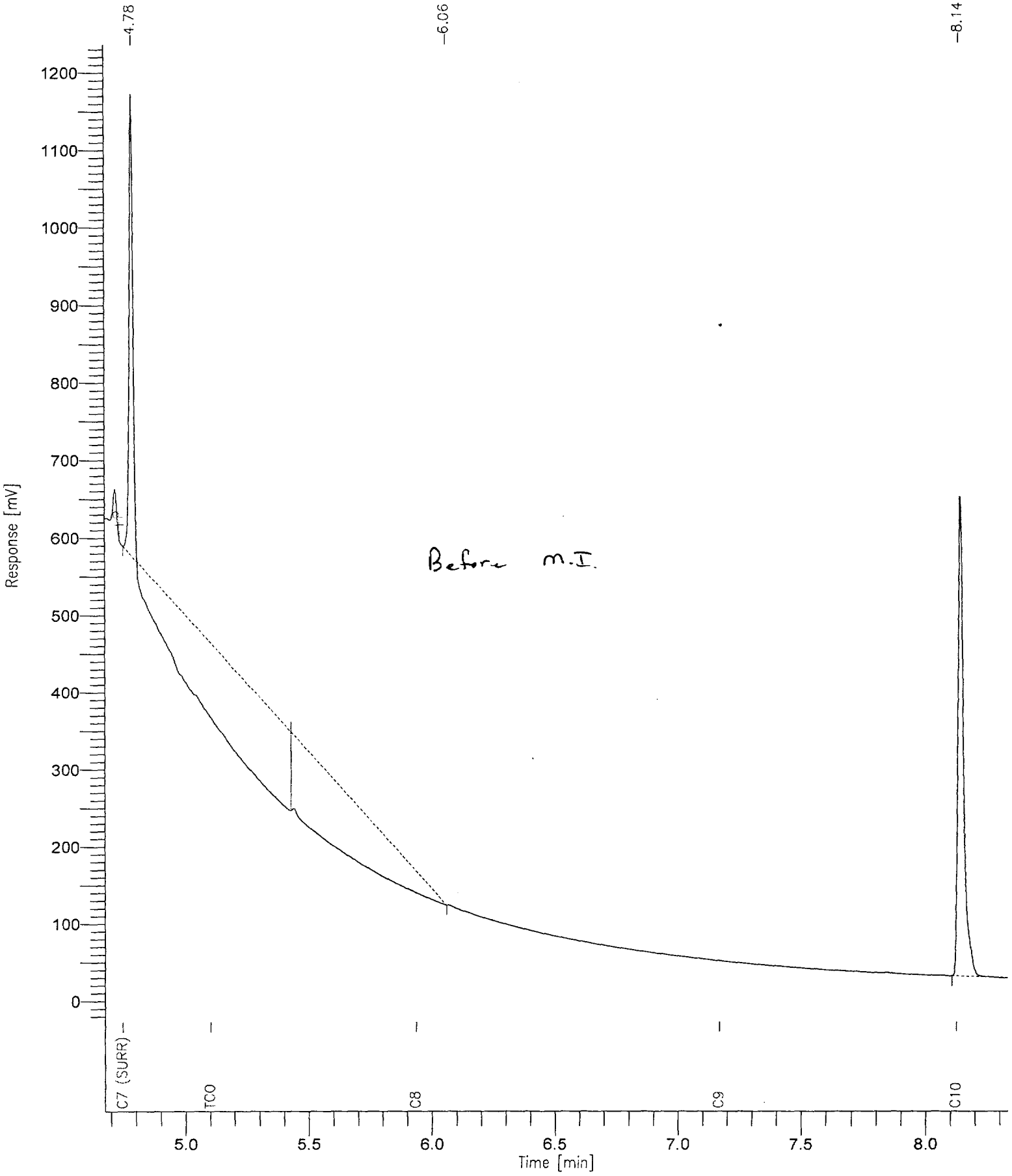
Sample #: 203 Page 1 of 1
Date : 4/17/2006 09:25 AM
Time of Injection: 4/16/2006 07:33 PM
Low Point : -27.53 mV High Point : 1235.71 mV
Plot Scale: 1263.2 mV



Chromatogram

Sample Name : AI2407 30PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5203.RAW
Method :
Start Time : 4.68 min End Time : 8.34 min
Scale Factor: 0.0 Plot Offset: -28 mV

Sample #: 203 Page 1 of 1
Date : 4/17/2006 09:25 AM
Time of Injection: 4/16/2006 07:33 PM
Low Point : -27.53 mV High Point : 1235.71 mV
Plot Scale: 1263.2 mV



```
Software Version: 4.1<2F12>
Sample Name  : AI2407 30PPM                    Time  : 4/17/2006  09:27 AM
Sample Number: 211                            Study : CCV
Operator     : Analyst

Instrument   : GTO                    Channel : A     A/D mV Range : 10000
AutoSampler  :
Rack/Vial    : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 4/16/2006  10:59 PM
Delay Time     : 0.00   min.
End Time       : 19.00  min.
Sampling Rate  : 10.0000  pts/sec

Raw Data File    : K:\#GTO\#SEQ\A25G6\G#A5211.RAW
Result File      : K:\#GTO\#SEQ\A25G6\G#A5211.rst
Inst Method      : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5211.rst
Proc Method      : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method     : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File    : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume    : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount    : 1.0000                 Dilution Factor  : 1.00

Noise Threshold: 20          Area Threshold   : 2000     Bunch Factor: 4
Multiplier     : 0.0100      Divisor  : 1.0000       Addend  : 0.0000
User1          :                      User2         :
User3          :                      User4         :
User5          :

Instrument Conditions:
Capillary GC     -
  Instrument     : GC3400TCO
  Column         : J&W DB-1 128-1052
  Column Length  : 50m x 0.20 mm x 0.33um
  Carrier Gas    : Helium
  Flow Rate      : 25 cm/s @ 300C
  Split Ratio    : Splitless >50
  Temperature    : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1     : FID, 350C, 1 x 10-12
  Detector 2     :
  Notes          :

Total number of peaks detected: 12
```

Total Chromatographable Organics (C7-C17)

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
8.141	C10	110.4	0.1104	11.04	11.04	984771	100	110	442	110	
10.106	C12	106.0	0.1060	10.60	10.60	945292	100	106	424	106	
11.762	C14	104.2	0.1042	10.42	10.42	929743	100	104	417	104	
13.867	TCO Surrogates	1.5e-92	1.5e-95	1.54e-93	1.5e-93	1538383	100	###	###	###	2
		320.6	0.3206	32.06	32.06	4398189					

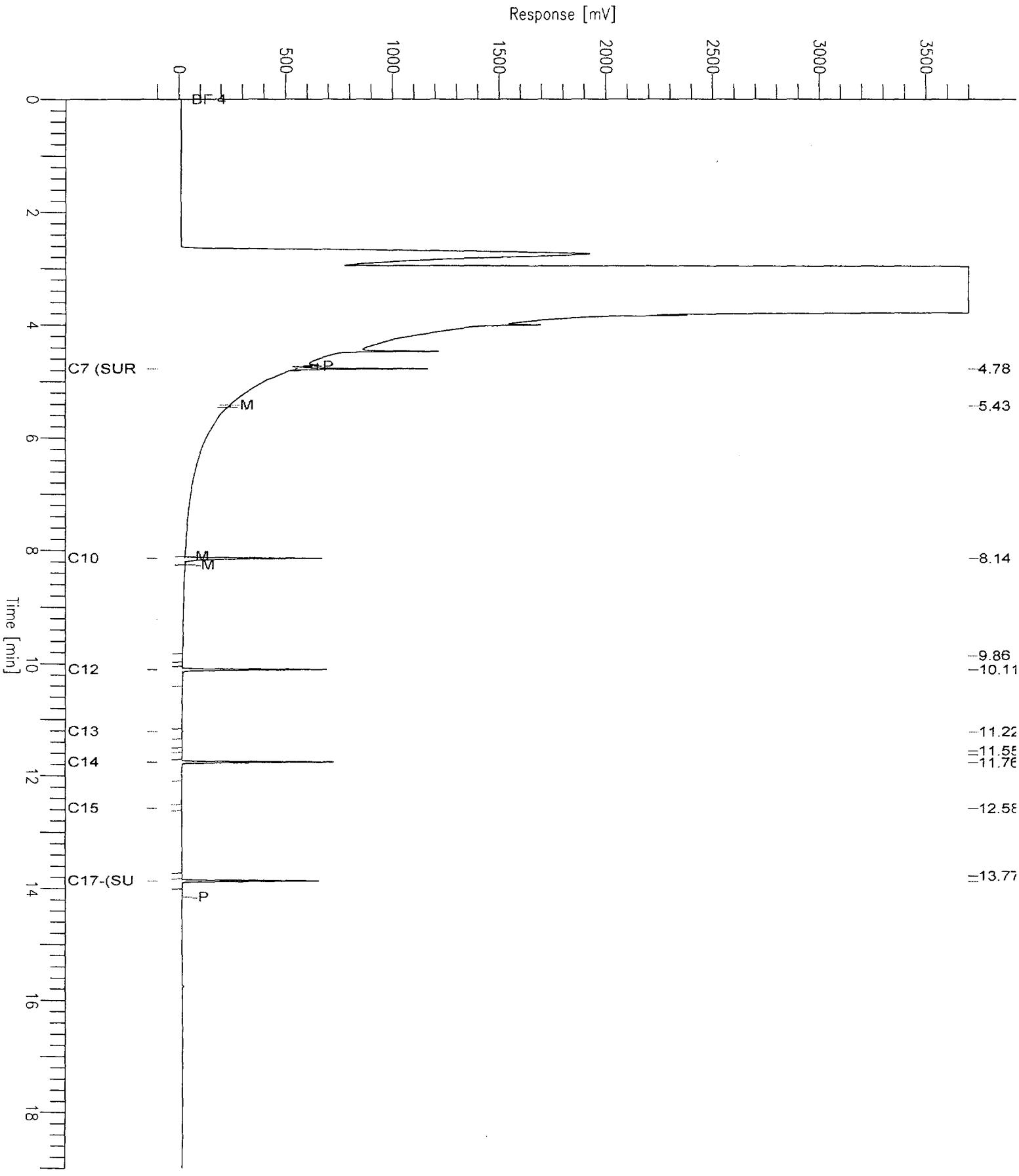
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.777	C7 (SURR) Heptane	108.4	0.1084	10.84	10.84	676586	100	108	434	108
13.867	C17-(SURR) Heptadeca	106.7	0.1067	10.67	10.67	861797	100	107	427	107
		215.1	0.2151	21.51	21.51	1538383				

Chromatogram

Sample Name : AI2407 30PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5211.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

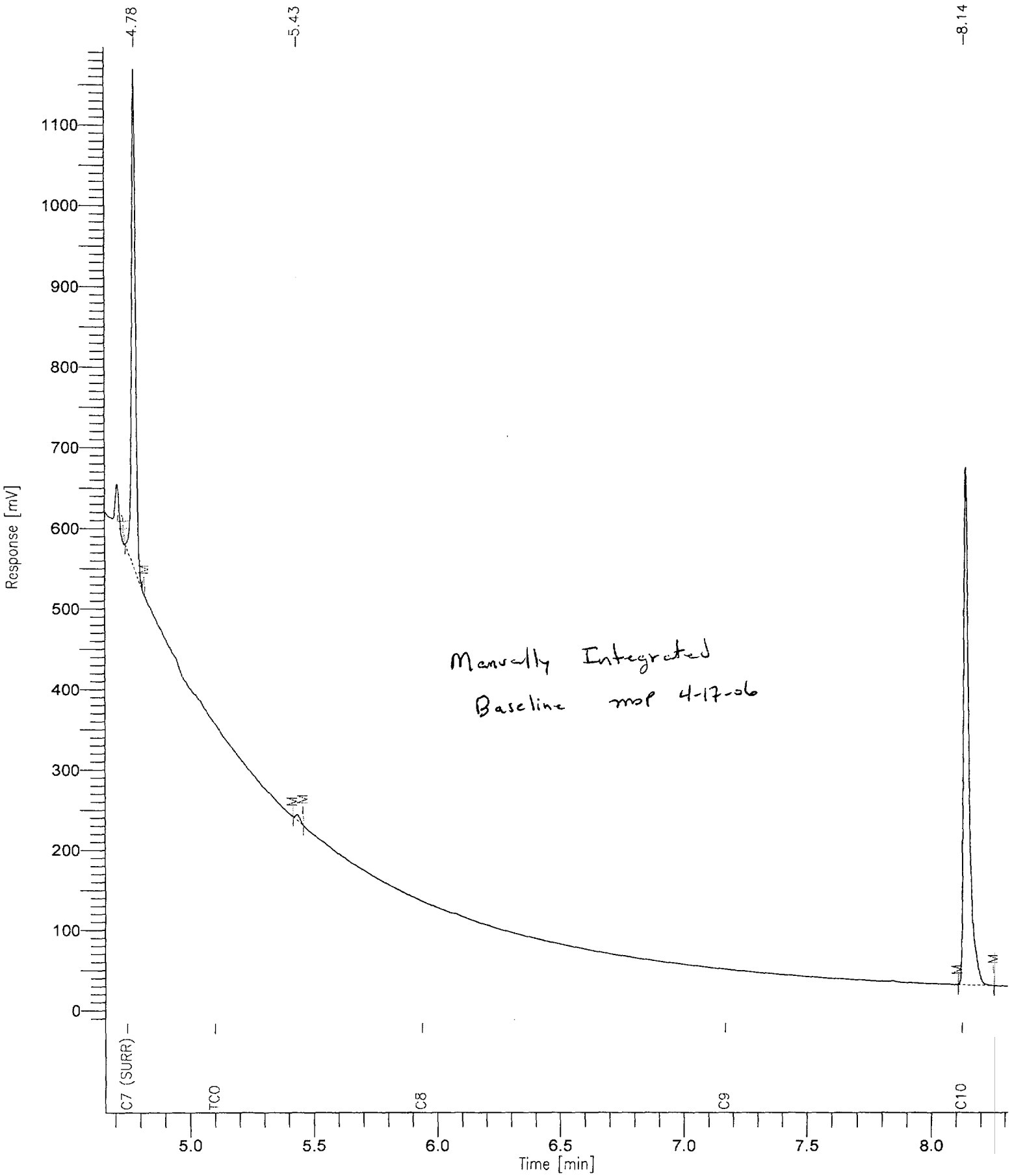
Sample #: 211 Page 1 of 1
Date : 4/17/2006 09:27 AM
Time of Injection: 4/16/2006 10:59 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



Chromatogram

Sample Name : AI2407 30PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5211.RAW
Method :
Start Time : 4.66 min End Time : 8.31 min
Scale Factor: 0.0 Plot Offset: -17 mV

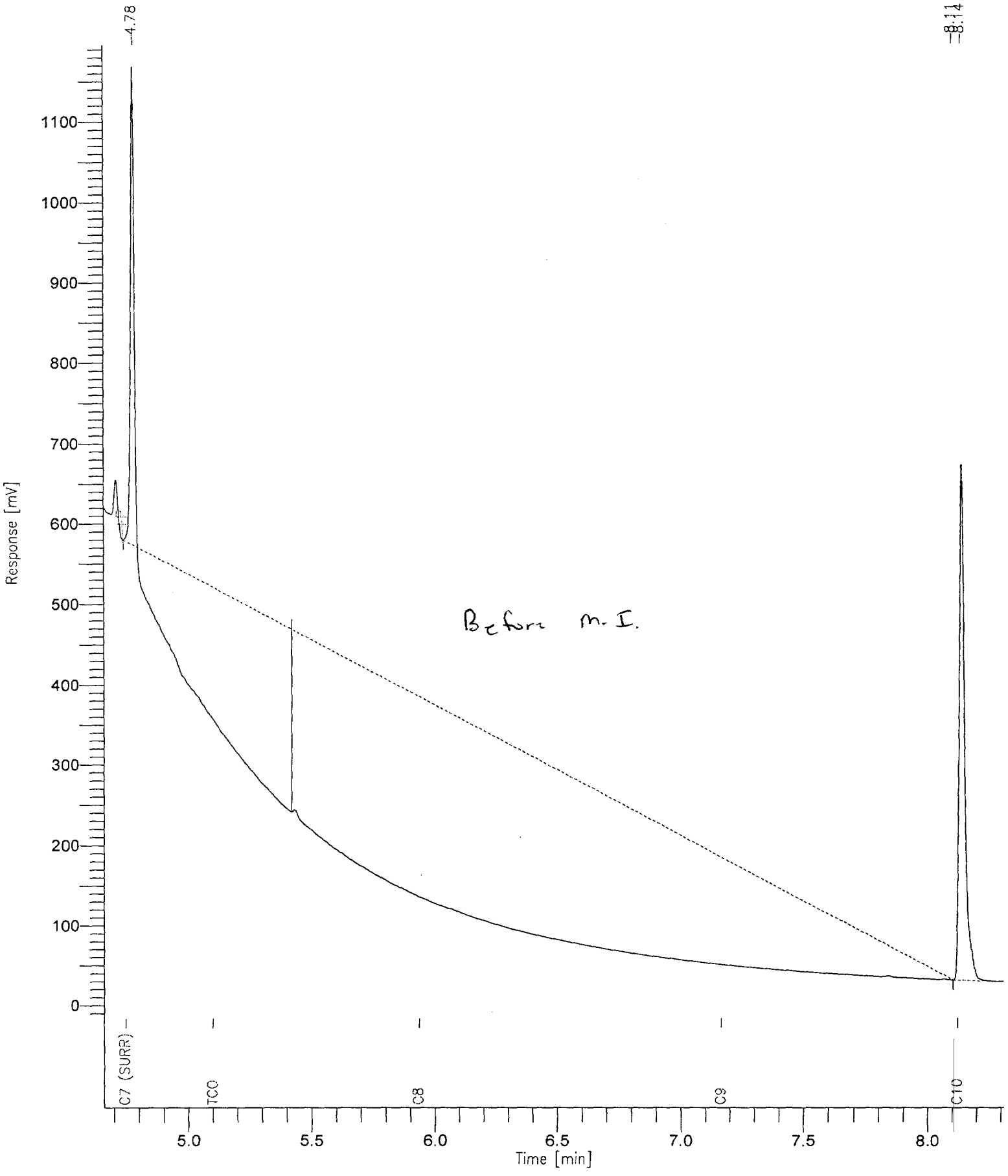
Sample #: 211 Page 1 of 1
Date : 4/17/2006 09:26 AM
Time of Injection: 4/16/2006 10:59 PM
Low Point : -16.61 mV High Point : 1195.58 mV
Plot Scale: 1212.2 mV



Chromatogram

Sample Name : AI2407 30PPM
FileName : K:\#GTO\#SEQ\A25G6\G#A5211.RAW
Method :
Start Time : 4.66 min End Time : 8.31 min
Scale Factor: 0.0 Plot Offset: -17 mV

Sample #: 211 Page 1 of 1
Date : 4/17/2006 09:26 AM
Time of Injection: 4/16/2006 10:59 PM
Low Point : -16.61 mV High Point : 1195.58 mV
Plot Scale: 1212.2 mV



TCO Raw QC Data

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT31AA **Matrix.....:** AIR
MB Lot-Sample #: H6D050000-031

Prep Date.....: 04/05/06
Analysis Date..: 04/16/06 **Prep Batch #...:** 6095031
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Chromatographable Organics	ND	0.050	mg	EPA-18 TCO

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	87	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Software Version: 4.1<2F12>
Sample Name : H2LT31AAB Time : 4/17/2006 09:47 AM
Sample Number: 191 Study : BLK
Operator : Analyst

Instrument : GTO Channel : A A/D mV Range : 10000
AutoSampler :
Rack/Vial : 0/0

Interface Serial # : 1168573804 Data Acquisition Time: 4/16/2006 02:24 PM
Delay Time : 0.00 min.
End Time : 19.00 min.
Sampling Rate : 10.0000 pts/sec

Raw Data File : K:\#GTO\#SEQ\A25G6\G#A5191.RAW
Result File : K:\#GTO\#SEQ\A25G6\G#A5191.rst
Inst Method : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5191.rst
Proc Method : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume : 1.0000 ul Area Reject : 10000.000000
Sample Amount : 1.0000 Dilution Factor : 1.00

Noise Threshold: 20 Area Threshold : 2000 Bunch Factor: 4
Multiplier : 0.0100 Divisor : 1.0000 Addend : 0.0000
User1 : User2 :
User3 : User4 :
User5 :

Instrument Conditions:
Capillary GC -
Instrument : GC3400TCO
Column : J&W DB-1 128-1052
Column Length : 50m x 0.20 mm x 0.33um
Carrier Gas : Helium
Flow Rate : 25 cm/s @ 300C
Split Ratio : Splitless >50
Temperature : 65C (2M) to 300C (5m) @ 20C/min
Injection Temp.: 275C
Detector 1 : FID, 350C, 1 x 10-12
Detector 2 :
Notes :

Total number of peaks detected: 11

Total Chromatographable Organics (C7-C17)

==========
Trial Burn Sampling and Analysis
==========

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
11.558		1.4	0.0014	0.14	0.14	12646	100	1	6	1	
13.868	TCO Surrogates	8.5e-93	8.5e-96	8.46e-94	8.5e-94	845596	100	###	###	###	3
13.944		1.2	0.0012	0.12	0.12	10668	100	1	5	1	
		2.6	0.0026	0.26	0.26	868910					

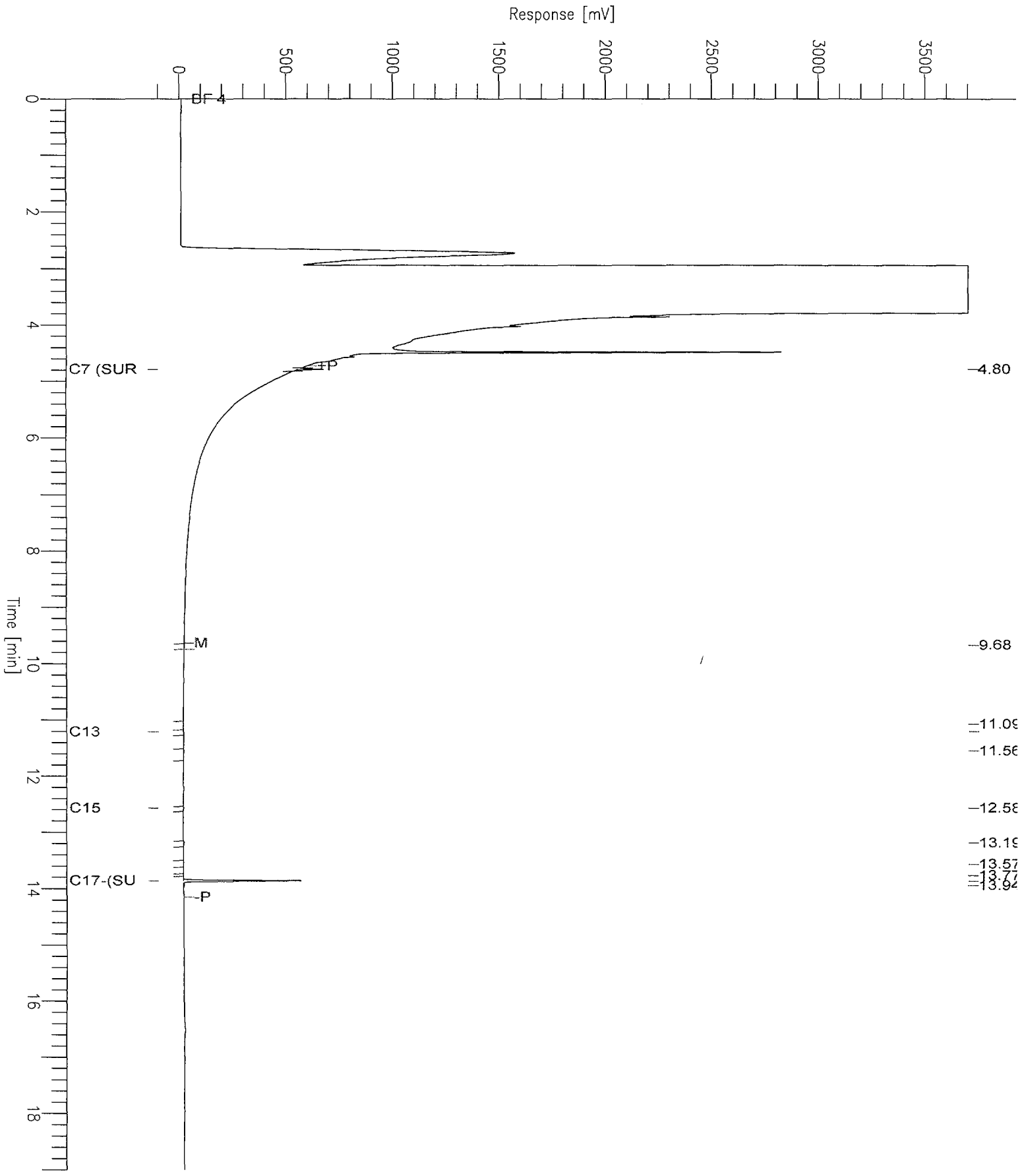
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.796	C7 (SURR) Heptane	20.2	0.0202	2.02	2.02	121642	100	20	81	20
13.868	C17-(SURR) Heptadeca	89.7	0.0897	8.97	8.97	723955	100	90	359	90
		109.9	0.1099	10.99	10.99	845596				

Chromatogram

Sample Name : H2LT31AAB
FileName : K:\#GTO\#SEQ\A25G6\G#A5191.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

Sample #: 191 Page 1 of 1
Date : 4/17/2006 09:47 AM
Time of Injection: 4/16/2006 02:24 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT31AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-031 H2LT31AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/16/06
Prep Batch #...: 6095031
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Total Chromatographable Organics	**73**	**(50 - 150)**			**EPA-18 TCO**
	90	**(50 - 150)**	**21**	**(0-35)**	**EPA-18 TCO**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	73	(50 - 150)
	87	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT31AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-031 H2LT31AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/16/06
Prep Batch #...: 6095031
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Total Chromatographable Organics	**0.225**	**0.164**	**mg**	**73**		**EPA-18 TCO**
	0.225	**0.203**	**mg**	**90**	**21**	**EPA-18 TCO**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	73	(50 - 150)
	87	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

```
Software Version: 4.1<2F12>
Sample Name   : H2LT31ACC                          Time   : 4/17/2006  09:47 AM
Sample Number: 192                                 Study  : LCS
Operator      : Analyst

Instrument    : GTO                        Channel : A     A/D mV Range : 10000
AutoSampler   :
Rack/Vial     : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 4/16/2006  02:50 PM
Delay Time      : 0.00   min.
End Time        : 19.00  min.
Sampling Rate   : 10.0000  pts/sec

Raw Data File     : K:\#GTO\#SEQ\A25G6\G#A5192.RAW
Result File       : K:\#GTO\#SEQ\A25G6\G#A5192.rst
Inst Method       : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5192.rst
Proc Method       : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method      : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File     : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume     : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount     : 1.0000                 Dilution Factor  : 1.00

Noise Threshold: 20           Area Threshold   : 2000     Bunch Factor: 4
Multiplier      : 0.0100      Divisor  : 1.0000       Addend  : 0.0000
User1           :                      User2         :
User3           :                      User4         :
User5           :

Instrument Conditions:
Capillary GC      -
  Instrument      : GC3400TCO
  Column          : J&W DB-1 128-1052
  Column Length   : 50m x 0.20 mm x 0.33um
  Carrier Gas     : Helium
  Flow Rate       : 25 cm/s @ 300C
  Split Ratio     : Splitless >50
  Temperature     : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1      : FID, 350C, 1 x 10-12
  Detector 2      :
  Notes           :

Total number of peaks detected: 17
```

Total Chromatographable Organics (C7-C17)

Trial Burn Sampling and Analysis

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
4.803		12.7	0.0127	1.27	1.27	112975	100	13	51	13	
5.875		10.7	0.0107	1.07	1.07	95281	100	11	43	11	
7.030		18.2	0.0182	1.82	1.82	162102	100	18	73	18	
8.142	C10	18.9	0.0189	1.89	1.89	168127	100	19	75	19	
9.170		18.1	0.0181	1.81	1.81	161390	100	18	72	18	
10.107	C12	18.1	0.0181	1.81	1.81	161468	100	18	72	18	
10.965		18.0	0.0180	1.80	1.80	160538	100	18	72	18	
11.762	C14	17.8	0.0178	1.78	1.78	158752	100	18	71	18	
12.507		17.0	0.0170	1.70	1.70	151795	100	17	68	17	
13.206		17.0	0.0170	1.70	1.70	151495	100	17	68	17	
13.867	TCO Surrogates	6.1e-93	6.1e-96	6.09e-94	6.1e-94	609447	100	###	###	###	3
		166.4	0.1664	16.64	16.64	2093370					

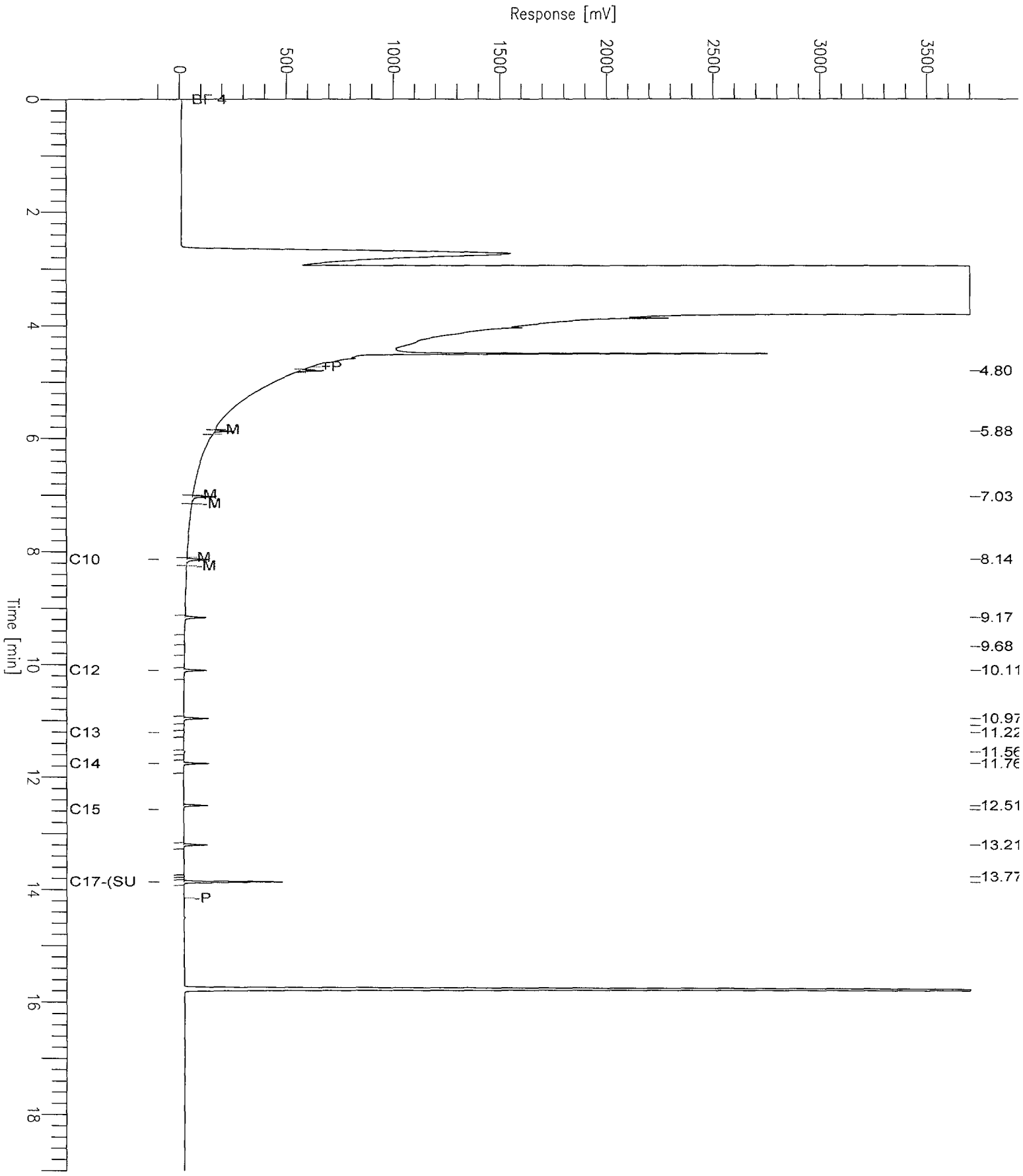
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.746	C7 (SURR) Heptane	0.0	0.0000	0.00	0.00	0	100	0	0	0
13.867	C17-(SURR) Heptadeca	75.5	0.0755	7.55	7.55	609447	100	76	302	76
		75.5	0.0755	7.55	7.55	609447				

Chromatogram

Sample Name : H2LT31ACC
FileName : K:\#GTO\#SEQ\A25G6\G#A5192.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

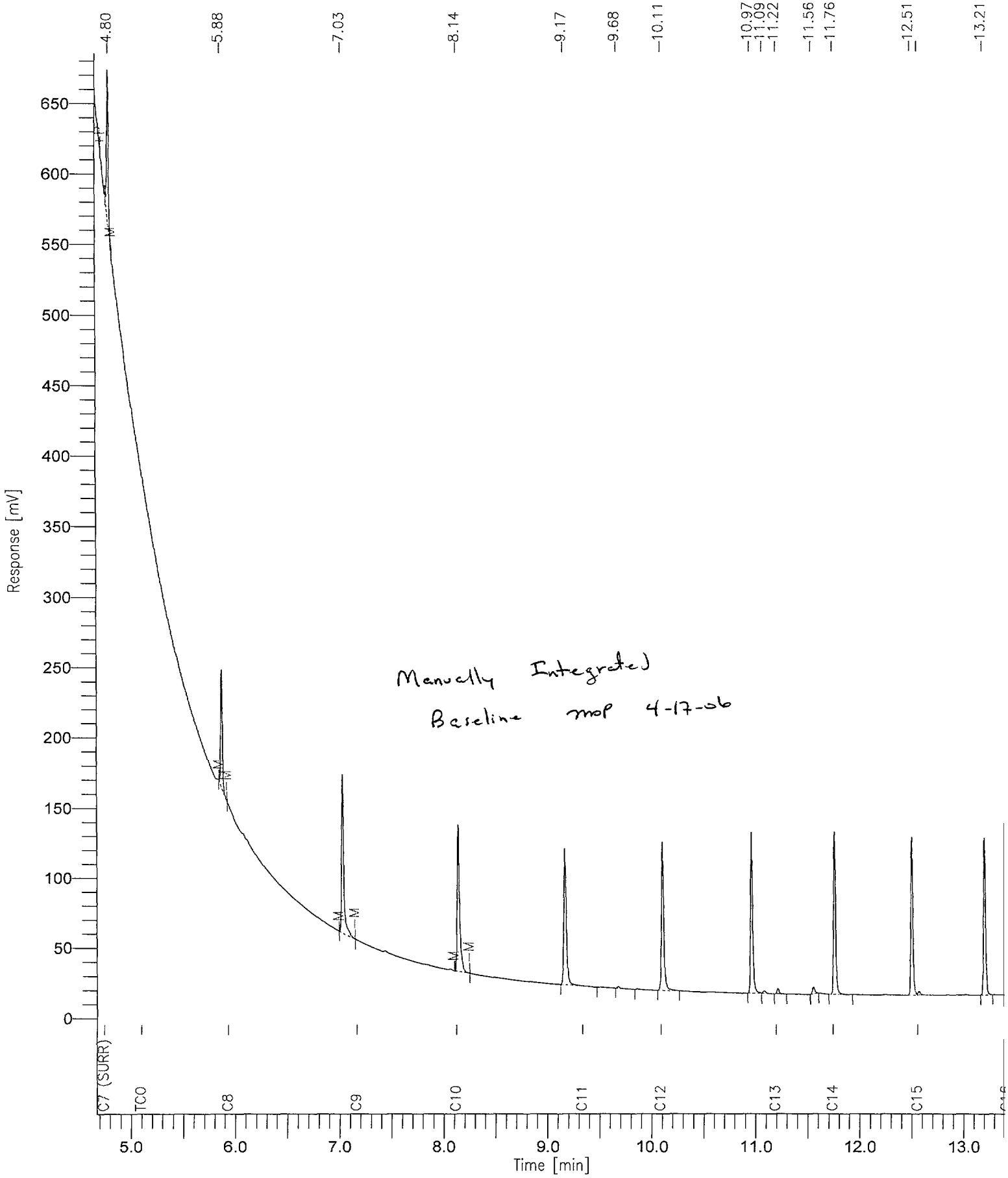
Sample #: 192 Page 1 of 1
Date : 4/17/2006 09:47 AM
Time of Injection: 4/16/2006 02:50 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



Chromatogram

Sample Name : H2LT31ACC
FileName : K:\#GTO\#SEQ\A25G6\G#A5192.RAW
Method :
Start Time : 4.68 min End Time : 13.40 min
Scale Factor: 0.0 Plot Offset: -5 mV

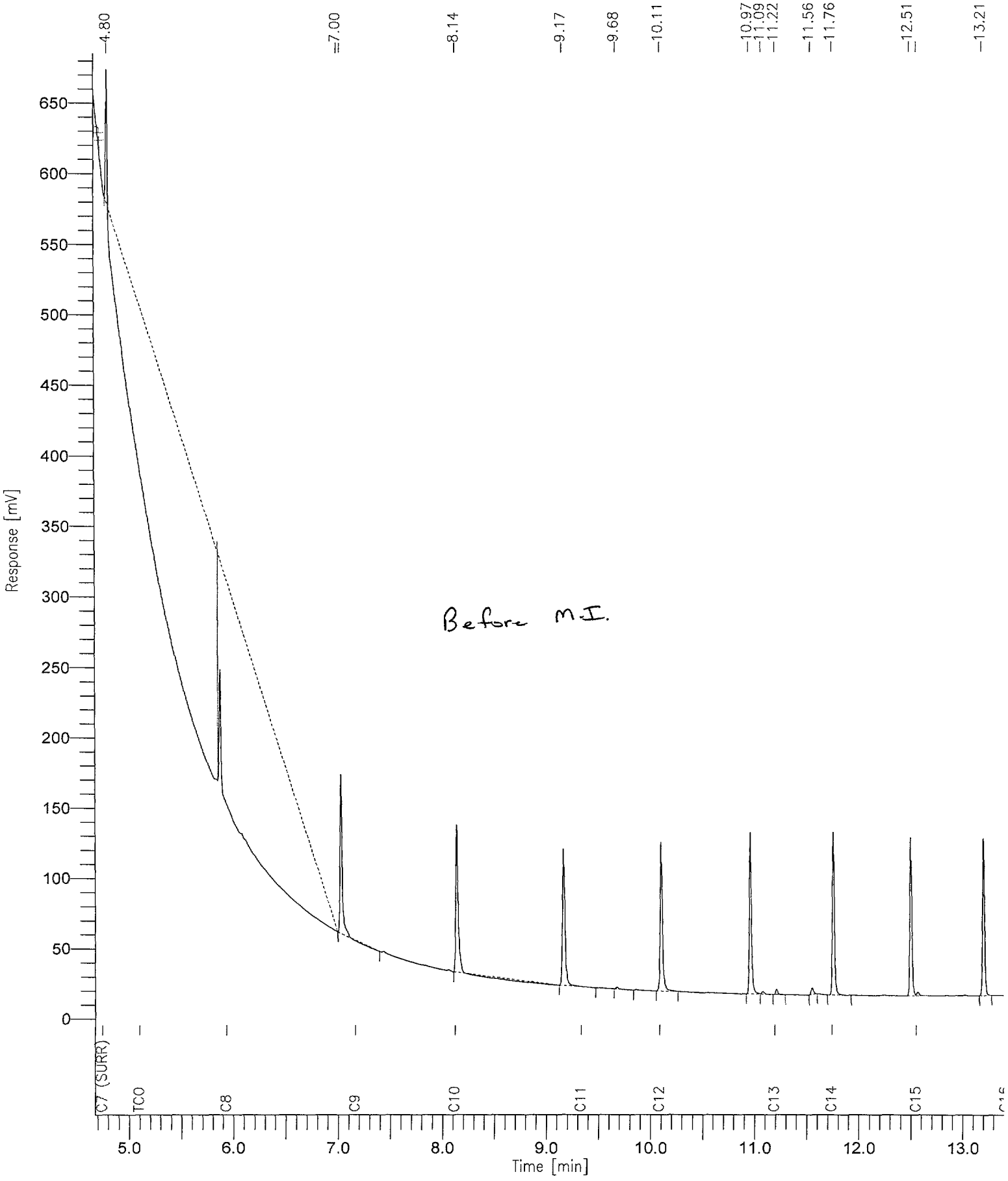
Sample #: 192 Page 1 of 1
Date : 4/17/2006 09:46 AM
Time of Injection: 4/16/2006 02:50 PM
Low Point : -4.88 mV High Point : 685.20 mV
Plot Scale: 690.1 mV



Chromatogram

Sample Name : H2LT31ACC
FileName : K:\#GTO\#SEQ\A25G6\G#A5192.RAW
Method :
Start Time : 4.68 min End Time : 13.40 min
Scale Factor: 0.0 Plot Offset: -5 mV

Sample #: 192 Page 1 of 1
Date : 4/17/2006 09:45 AM
Time of Injection: 4/16/2006 02:50 PM
Low Point : -4.88 mV High Point : 685.20 mV
Plot Scale: 690.1 mV



```
Software Version: 4.1<2F12>
Sample Name   : H2LT31ADL                          Time   : 4/17/2006  09:47 AM
Sample Number: 193                                 Study  : LCS DUP
Operator      : Analyst

Instrument    : GTO                        Channel : A     A/D mV Range : 10000
AutoSampler   :
Rack/Vial     : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 4/16/2006  03:16 PM
Delay Time      : 0.00   min.
End Time        : 19.00  min.
Sampling Rate   : 10.0000  pts/sec

Raw Data File     : K:\#GTO\#SEQ\A25G6\G#A5193.RAW
Result File       : K:\#GTO\#SEQ\A25G6\G#A5193.rst
Inst Method       : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5193.rst
Proc Method       : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method      : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File     : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume     : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount     : 1.0000                 Dilution Factor  : 1.00

Noise Threshold: 20           Area Threshold   : 2000     Bunch Factor: 4
Multiplier      : 0.0100      Divisor  : 1.0000       Addend  : 0.0000
User1           :                      User2         :
User3           :                      User4         :
User5           :

Instrument Conditions:
Capillary GC      -
  Instrument      : GC3400TCO
  Column          : J&W DB-1 128-1052
  Column Length   : 50m x 0.20 mm x 0.33um
  Carrier Gas     : Helium
  Flow Rate       : 25 cm/s @ 300C
  Split Ratio     : Splitless >50
  Temperature     : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1      : FID, 350C, 1 x 10-12
  Detector 2      :
  Notes           :

Total number of peaks detected: 16
```

Total Chromatographable Organics (C7-C17)

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
4.808		13.0	0.0130	1.30	1.30	115744	100	13	52	13	
5.883		15.3	0.0153	1.53	1.53	136369	100	15	61	15	
7.041		22.1	0.0221	2.21	2.21	197118	100	22	88	22	
8.154	C10	22.9	0.0229	2.29	2.29	204021	100	23	92	23	
9.183		22.0	0.0220	2.20	2.20	196030	100	22	88	22	
10.119	C12	22.3	0.0223	2.23	2.23	198836	100	22	89	22	
10.979		22.1	0.0221	2.21	2.21	196680	100	22	88	22	
11.571		1.7	0.0017	0.17	0.17	15455	100	2	7	2	
11.776	C14	22.1	0.0221	2.21	2.21	196803	100	22	88	22	
12.520		20.9	0.0209	2.09	2.09	186317	100	21	84	21	
13.220		20.8	0.0208	2.08	2.08	185742	100	21	83	21	
13.882	TCO Surrogates	7.2e-93	7.2e-96	7.19e-94	7.2e-94	718912	100	###	###	###	3
		205.1	0.2051	20.51	20.51	2548028					

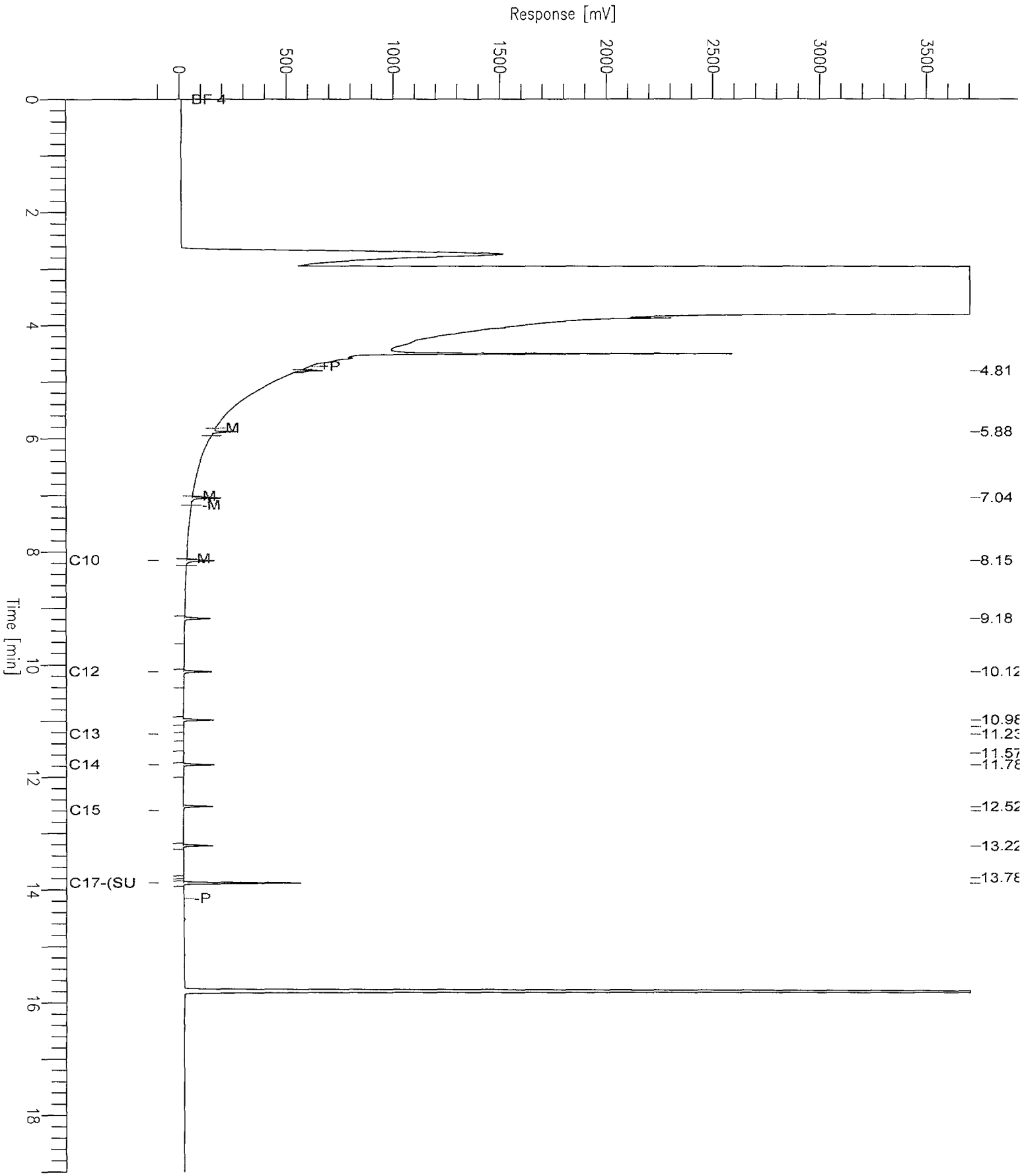
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.746	C7 (SURR) Heptane	0.0	0.0000	0.00	0.00	0	100	0	0	0
13.882	C17-(SURR) Heptadeca	89.1	0.0891	8.91	8.91	718912	100	89	356	89
		89.1	0.0891	8.91	8.91	718912				

Chromatogram

Sample Name : H2LT31ADL
FileName : K:\#GTO\#SEQ\A25G6\G#A5193.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

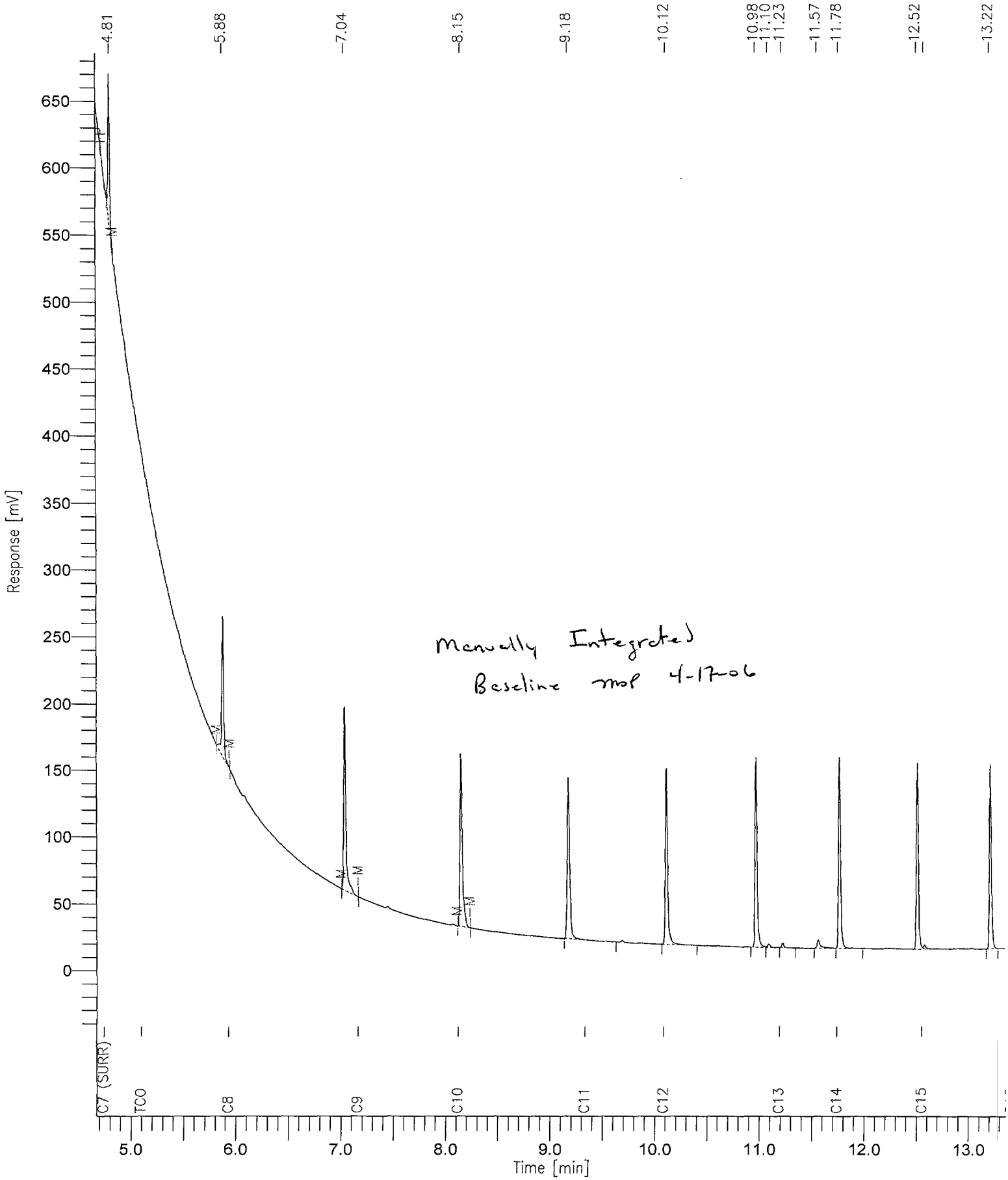
Sample #: 193
Date : 4/17/2006 09:47 AM
Time of Injection: 4/16/2006 03:16 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



Chromatogram

Sample Name : H2LT31ADL
FileName : K:\#GTO\#SEQ\A25G6\G#A5193.RAW
Method :
Start Time : 4.68 min End Time : 13.36 min
Scale Factor: 0.0 Plot Offset: -43 mV

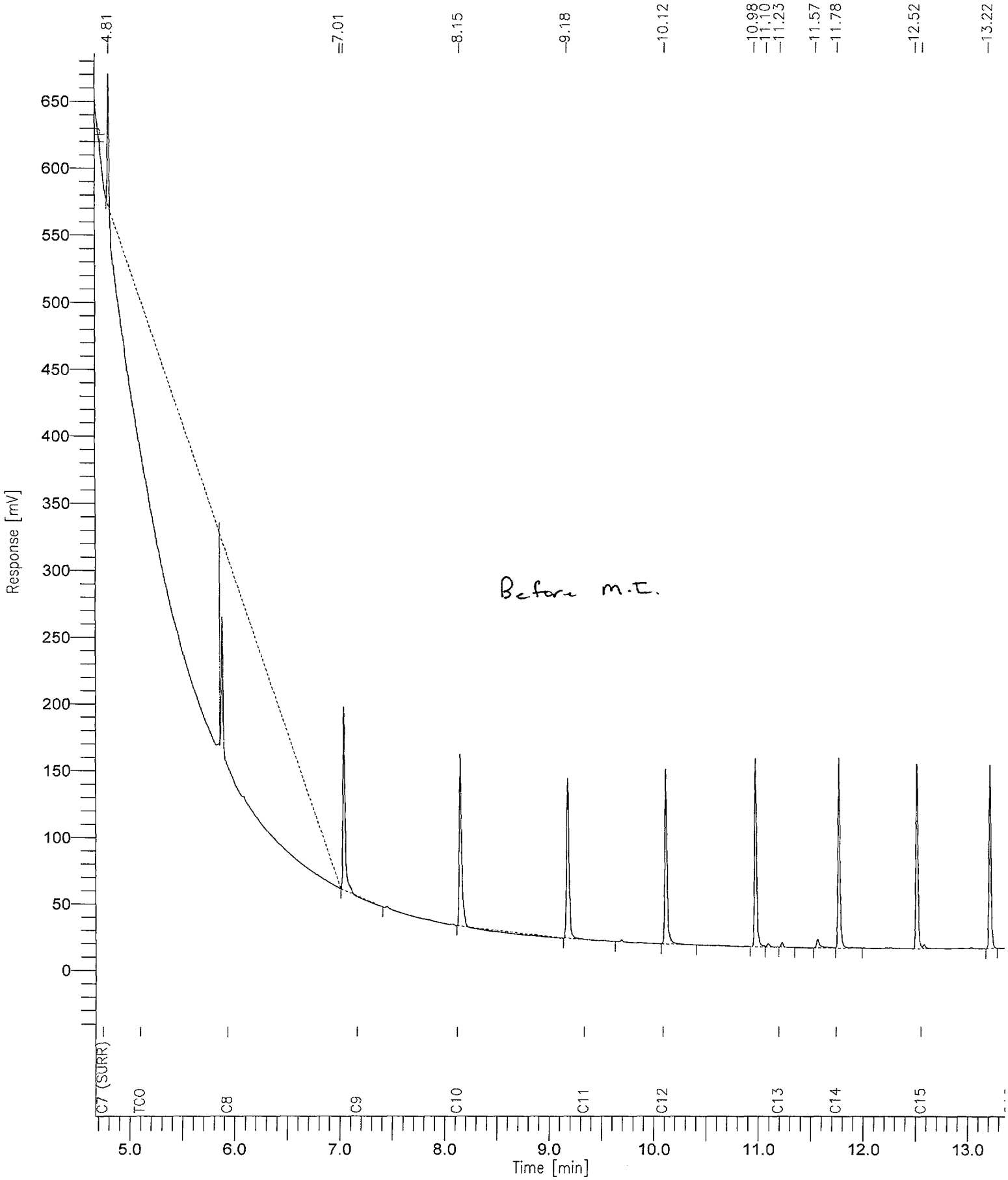
Sample #: 193 Page 1 of 1
Date : 4/17/2006 09:47 AM
Time of Injection: 4/16/2006 03:16 PM
Low Point : -42.51 mV High Point : 685.49 mV
Plot Scale: 728.0 mV



Chromatogram

Sample Name : H2LT31ADL
FileName : K:\#GTO\#SEQ\A25G6\G#A5193.RAW
Method :
Start Time : 4.68 min End Time : 13.36 min
Scale Factor: 0.0 Plot Offset: -43 mV

Sample #: 193 Page 1 of 1
Date : 4/17/2006 09:46 AM
Time of Injection: 4/16/2006 03:16 PM
Low Point : -42.51 mV High Point : 685.49 mV
Plot Scale: 728.0 mV



METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT21AA **Matrix.....:** AIR
MB Lot-Sample #: H6D050000-032

Prep Date.....: 04/05/06
Analysis Date..: 04/16/06 **Prep Batch #...:** 6095032
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Chromatographable Organics	**0.022 J**	**0.050**	**mg**	**EPA-18 TCO**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	98	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

```
Software Version: 4.1<2F12>
Sample Name   : H2LT21AAB                          Time   : 4/17/2006  10:02 AM
Sample Number: 200                                 Study  : BLK
Operator      : Analyst

Instrument    : GTO                        Channel : A     A/D mV Range : 10000
AutoSampler   :
Rack/Vial     : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 4/16/2006  06:16 PM
Delay Time      : 0.00   min.
End Time        : 19.00  min.
Sampling Rate   : 10.0000  pts/sec

Raw Data File     : K:\#GTO\#SEQ\A25G6\G#A5200.RAW
Result File       : K:\#GTO\#SEQ\A25G6\G#A5200.rst
Inst Method       : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5200.rst
Proc Method       : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method      : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File     : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume     : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount     : 1.0000                 Dilution Factor  : 1.00

Noise Threshold: 20           Area Threshold   : 2000     Bunch Factor: 4
Multiplier      : 0.0100      Divisor  : 1.0000       Addend  : 0.0000
User1           :                      User2         :
User3           :                      User4         :
User5           :

Instrument Conditions:
Capillary GC      -
  Instrument      : GC3400TCO
  Column          : J&W DB-1 128-1052
  Column Length   : 50m x 0.20 mm x 0.33um
  Carrier Gas     : Helium
  Flow Rate       : 25 cm/s @ 300C
  Split Ratio     : Splitless >50
  Temperature     : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1      : FID, 350C, 1 x 10-12
  Detector 2      :
  Notes           :

Total number of peaks detected: 27
```

Total Chromatographable Organics (C7-C17)

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
5.437		1.2	0.0012	0.12	0.12	10707	100	1	5	1
8.891		1.6	0.0016	0.16	0.16	13834	100	2	6	2
8.980		2.5	0.0025	0.25	0.25	22664	100	3	10	3
9.064		2.1	0.0021	0.21	0.21	18882	100	2	8	2
9.502		1.2	0.0012	0.12	0.12	10364	100	1	5	1
9.573		7.7	0.0077	0.77	0.77	68835	100	8	31	8
9.680		2.7	0.0027	0.27	0.27	23732	100	3	11	3
9.844		1.2	0.0012	0.12	0.12	10326	100	1	5	1
11.005		1.4	0.0014	0.14	0.14	12761	100	1	6	1
13.868	TCO Surrogates	9.3e-93	9.3e-96	9.32e-94	9.3e-94	932248	100	###	###	### 3
		21.5	0.0215	2.15	2.15	1124351				

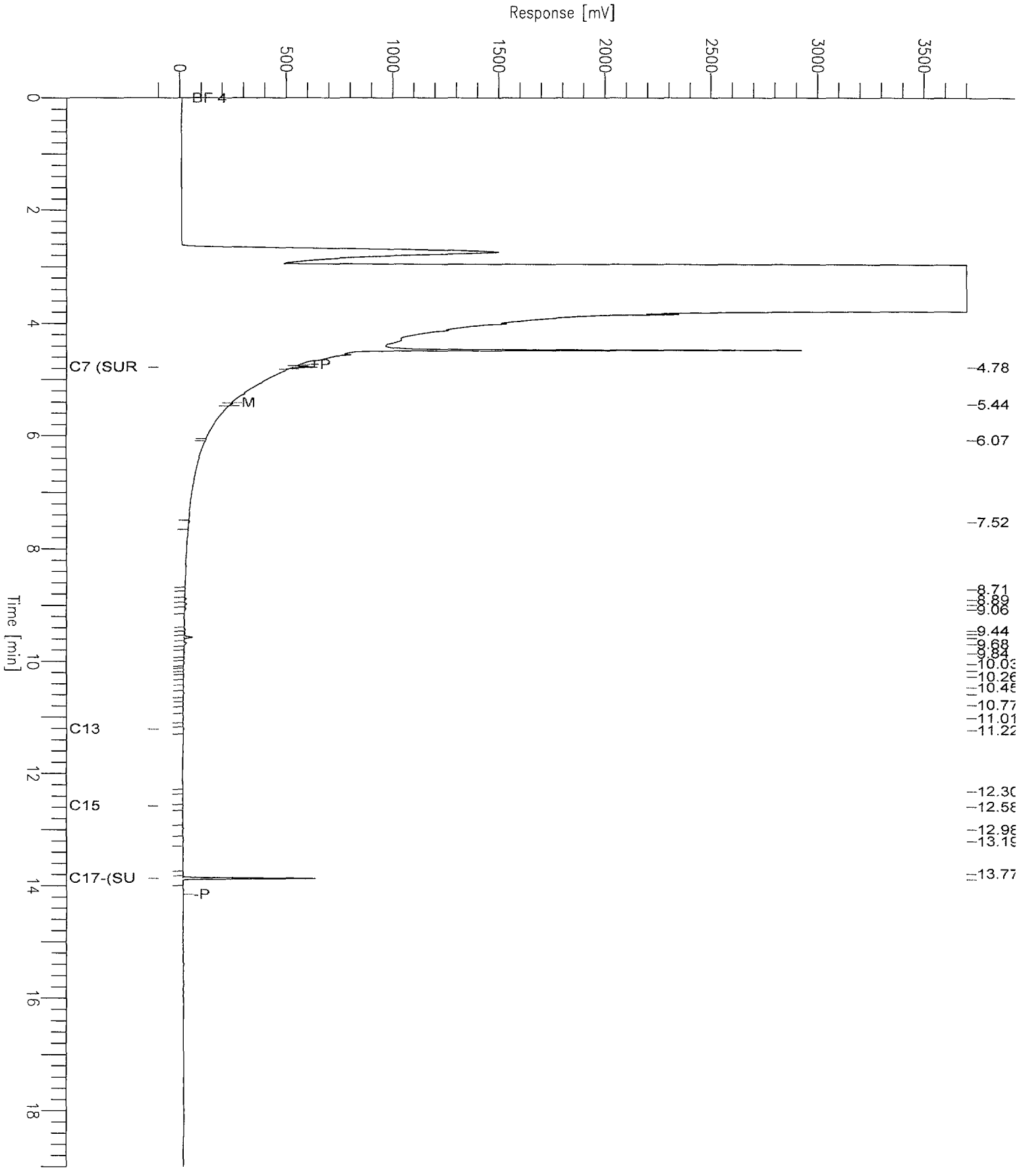
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.781	C7 (SURR) Heptane	19.6	0.0196	1.96	1.96	118103	100	20	78	20
13.868	C17-(SURR) Heptadeca	100.9	0.1009	10.09	10.09	814145	100	101	403	101
		120.4	0.1204	12.04	12.04	932248				

Chromatogram

Sample Name : H2LT21AAB
FileName : K:\#GTO\#SEQ\A25G6\G#A5200.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

Sample #: 200 Page 1 of 1
Date : 4/17/2006 10:02 AM
Time of Injection: 4/16/2006 06:16 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT21AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-032 H2LT21AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/16/06
Prep Batch #...: 6095032
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Total Chromatographable Organics	**85**	**(50 - 150)**			**EPA-18 TCO**
	80	**(50 - 150)**	**6.4**	**(0-35)**	**EPA-18 TCO**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	86	(50 - 150)
	85	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT21AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-032 H2LT21AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/16/06
Prep Batch #...: 6095032
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Total Chromatographable Organics	**0.225**	**0.192**	**mg**	**85**		**EPA-18 TCO**
	0.225	**0.180**	**mg**	**80**	**6.4**	**EPA-18 TCO**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	86	(50 - 150)
	85	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

```
Software Version: 4.1<2F12>
Sample Name   : H2LT21ACC                          Time   : 4/17/2006  10:02 AM
Sample Number: 201                                 Study  : LCS
Operator      : Analyst

Instrument    : GTO                        Channel : A     A/D mV Range : 10000
AutoSampler   :
Rack/Vial     : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 4/16/2006  06:42 PM
Delay Time      : 0.00   min.
End Time        : 19.00  min.
Sampling Rate   : 10.0000  pts/sec

Raw Data File     : K:\#GTO\#SEQ\A25G6\G#A5201.RAW
Result File       : K:\#GTO\#SEQ\A25G6\G#A5201.rst
Inst Method       : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5201.rst
Proc Method       : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method      : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File     : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume     : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount     : 1.0000                 Dilution Factor  : 1.00

Noise Threshold: 20           Area Threshold   : 2000     Bunch Factor: 4
Multiplier      : 0.0100      Divisor  : 1.0000       Addend  : 0.0000
User1           :                      User2         :
User3           :                      User4         :
User5           :

Instrument Conditions:
Capillary GC      -
  Instrument      : GC3400TCO
  Column          : J&W DB-1 128-1052
  Column Length   : 50m x 0.20 mm x 0.33um
  Carrier Gas     : Helium
  Flow Rate       : 25 cm/s @ 300C
  Split Ratio     : Splitless >50
  Temperature     : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1      : FID, 350C, 1 x 10-12
  Detector 2      :
  Notes           :

Total number of peaks detected: 32
```

Total Chromatographable Organics (C7-C17)

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
4.796		11.2	0.0112	1.12	1.12	99862	100	11	45	11	
5.447		1.4	0.0014	0.14	0.14	12432	100	1	6	1	
5.871		11.4	0.0114	1.14	1.14	101359	100	11	45	11	
7.029		21.1	0.0211	2.11	2.11	187957	100	21	84	21	
8.142	C10	22.1	0.0221	2.21	2.21	196969	100	22	88	22	
8.892		1.5	0.0015	0.15	0.15	13101	100	1	6	1	
8.981		2.2	0.0022	0.22	0.22	19942	100	2	9	2	
9.065		1.8	0.0018	0.18	0.18	16357	100	2	7	2	
9.171		21.2	0.0212	2.12	2.12	189325	100	21	85	21	
9.494		3.3	0.0033	0.33	0.33	29001	100	3	13	3	
9.574		7.3	0.0073	0.73	0.73	64986	100	7	29	7	
9.682		2.5	0.0025	0.25	0.25	22322	100	3	10	3	
10.107	C12	21.6	0.0216	2.16	2.16	192808	100	22	86	22	
10.965		22.7	0.0227	2.27	2.27	202197	100	23	91	23	
11.762	C14	21.0	0.0210	2.10	2.10	187077	100	21	84	21	
12.507		20.3	0.0203	2.03	2.03	181086	100	20	81	20	
13.207		20.5	0.0205	2.05	2.05	183064	100	21	82	21	
13.869	TCO Surrogates	7.1e-93	7.1e-96	7.11e-94	7.1e-94	711320	100	###	###	###	3
		213.1	0.2131	21.31	21.31	2611164					

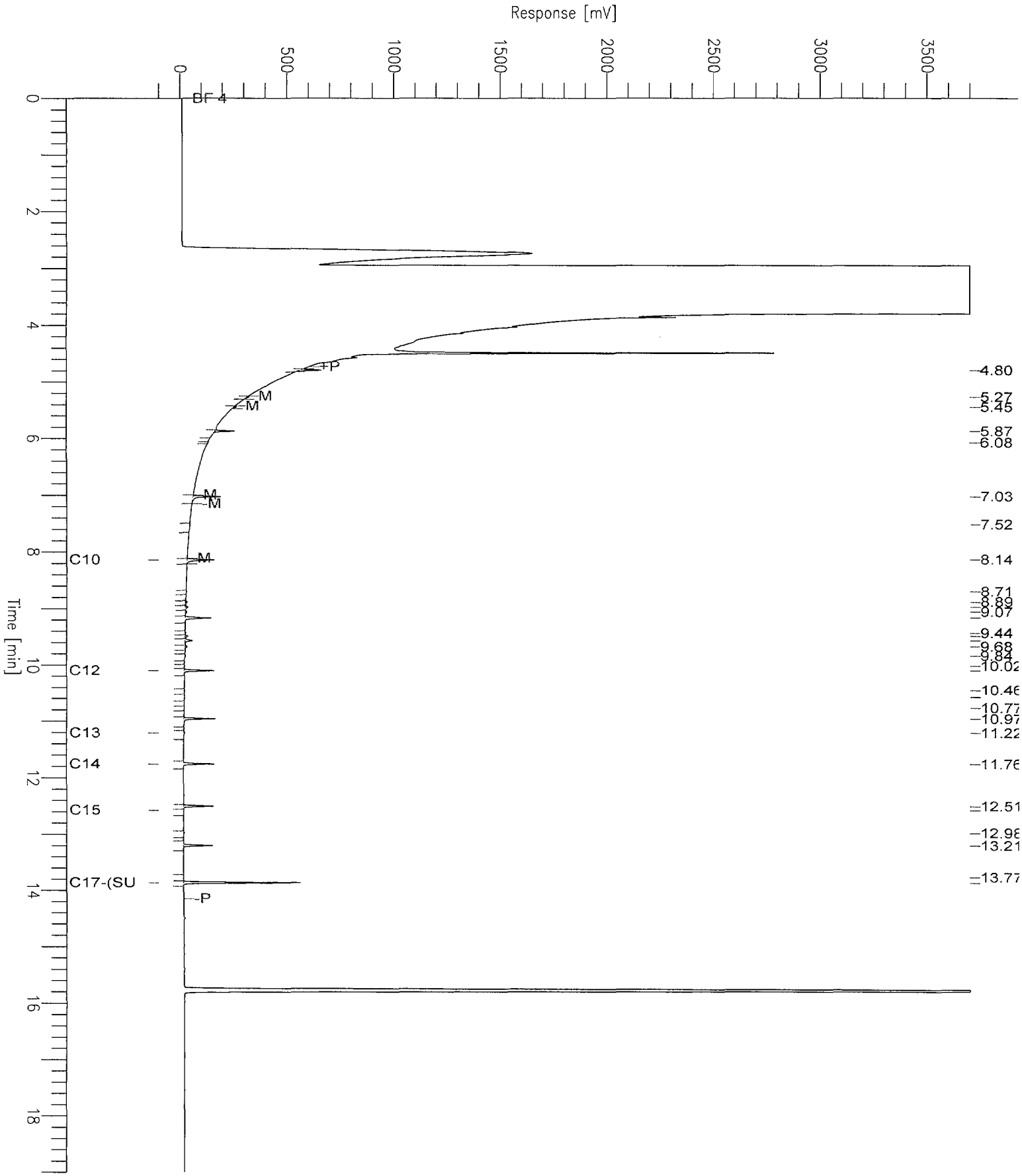
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.746	C7 (SURR) Heptane	0.0	0.0000	0.00	0.00	0	100	0	0	0
13.869	C17-(SURR) Heptadeca	88.1	0.0881	8.81	8.81	711320	100	88	353	88
		88.1	0.0881	8.81	8.81	711320				

Chromatogram

Sample Name : H2LT21ACC
FileName : K:\#GTO\#SEQ\A25G6\G#A5201.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

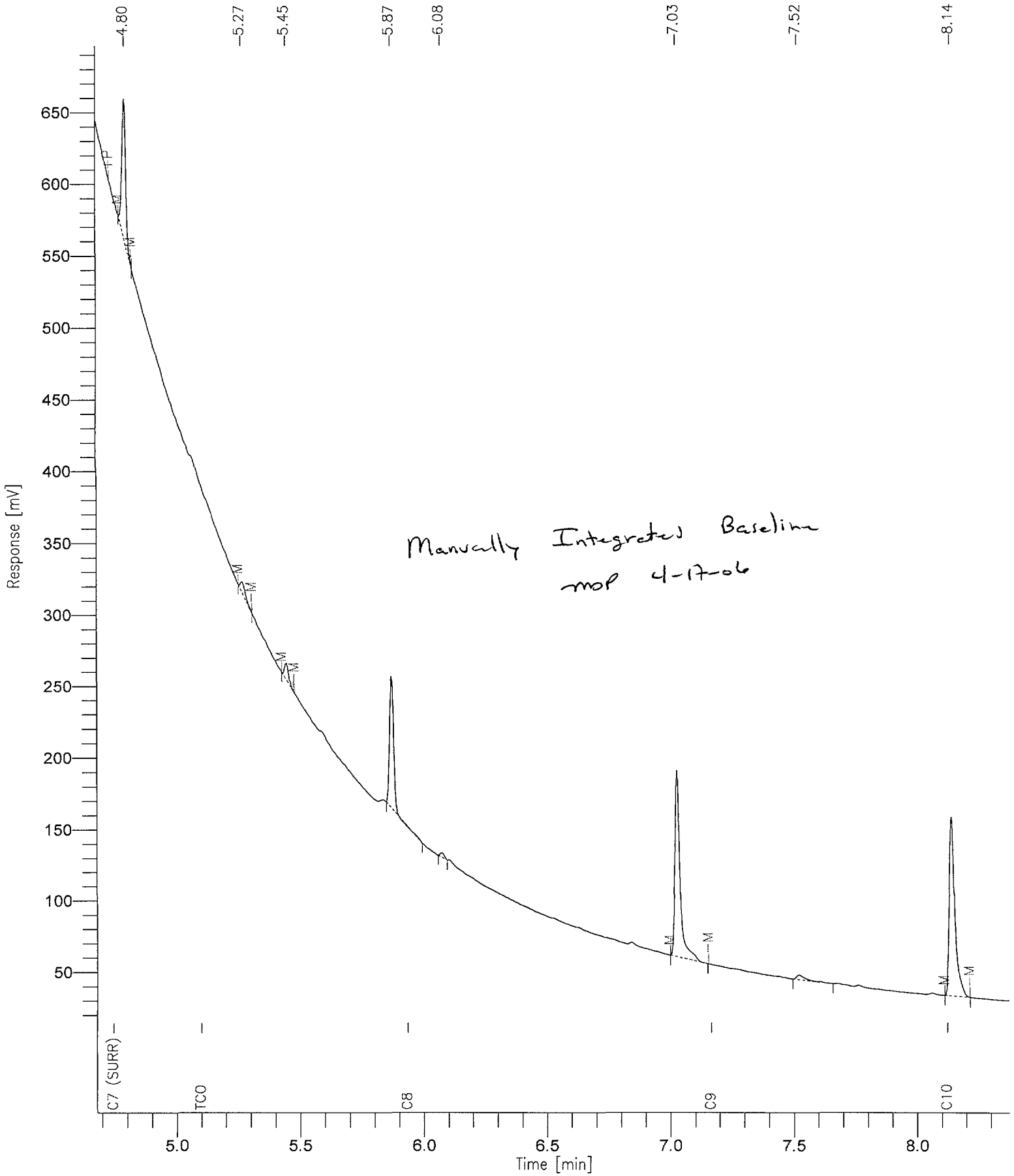
Sample #: 201 Page 1 of 1
Date : 4/17/2006 10:02 AM
Time of Injection: 4/16/2006 06:42 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



Chromatogram

Sample Name : H2LT21ACC
FileName : K:\#GTO\#SEQ\A25G6\G#A5201.RAW
Method :
Start Time : 4.68 min End Time : 8.38 min
Scale Factor: 0.0 Plot Offset: 14 mV

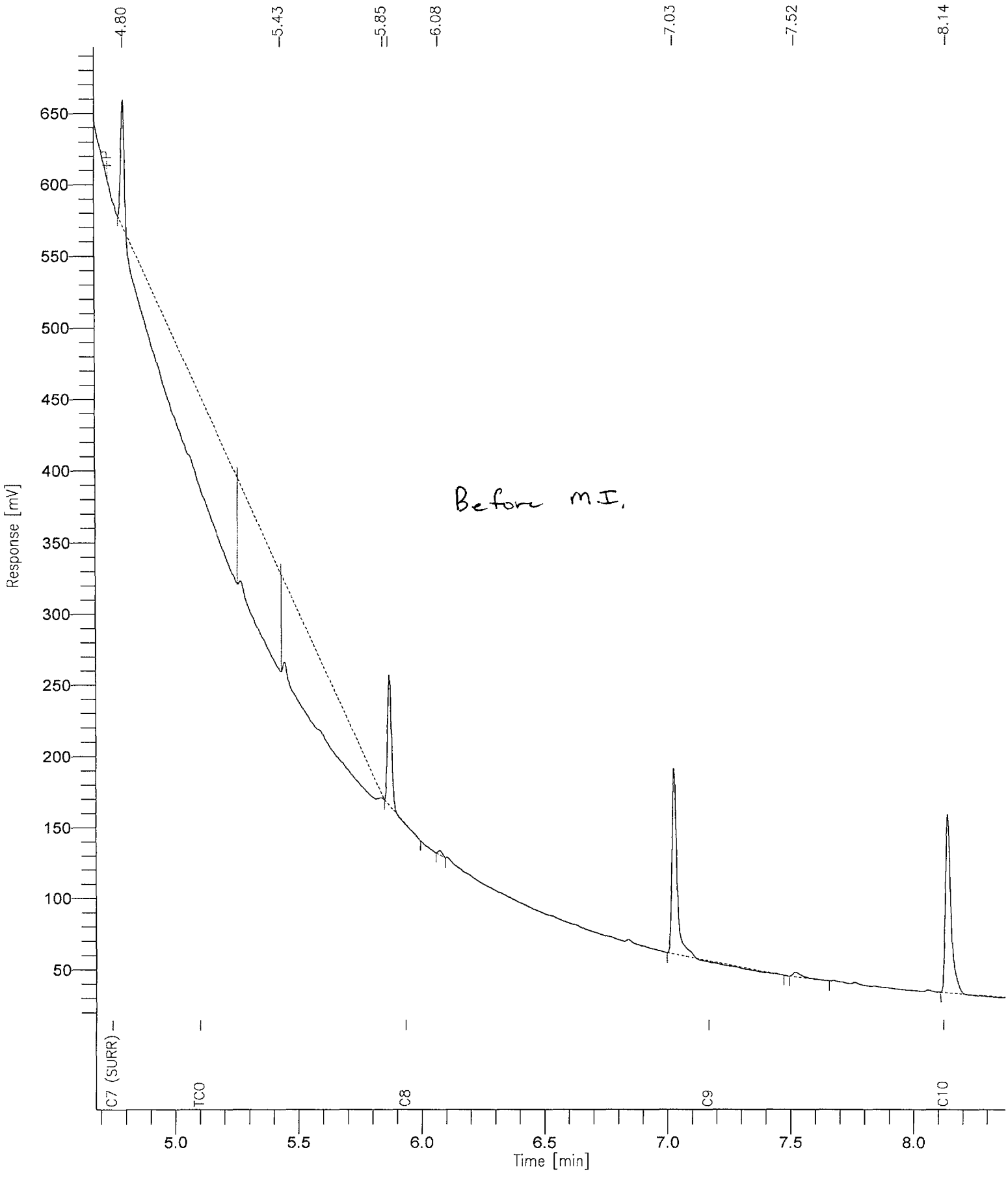
Sample #: 201 Page 1 of 1
Date : 4/17/2006 10:01 AM
Time of Injection: 4/16/2006 06:42 PM
Low Point : 14.27 mV High Point : 696.07 mV
Plot Scale: 681.8 mV



Chromatogram

Sample Name : H2LT21ACC
FileName : K:\#GTO\#SEQ\A25G6\G#A5201.RAW
Method :
Start Time : 4.68 min End Time : 8.38 min
Scale Factor: 0.0 Plot Offset: 14 mV

Sample #: 201 Page 1 of 1
Date : 4/17/2006 10:00 AM
Time of Injection: 4/16/2006 06:42 PM
Low Point : 14.27 mV High Point : 696.07 mV
Plot Scale: 681.8 mV



```
Software Version: 4.1<2F12>
Sample Name   : H2LT21ADL                          Time   : 4/17/2006  10:02 AM
Sample Number: 202                                 Study  : LCS DUP
Operator      : Analyst

Instrument    : GTO                        Channel : A     A/D mV Range : 10000
AutoSampler   :
Rack/Vial     : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 4/16/2006  07:07 PM
Delay Time      : 0.00   min.
End Time        : 19.00  min.
Sampling Rate   : 10.0000  pts/sec

Raw Data File     : K:\#GTO\#SEQ\A25G6\G#A5202.RAW
Result File       : K:\#GTO\#SEQ\A25G6\G#A5202.rst
Inst Method       : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5202.rst
Proc Method       : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method      : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File     : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume     : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount     : 1.0000                 Dilution Factor  : 1.00

Noise Threshold: 20           Area Threshold   : 2000     Bunch Factor: 4
Multiplier      : 0.0100      Divisor  : 1.0000       Addend  : 0.0000
User1           :                      User2         :
User3           :                      User4         :
User5           :

Instrument Conditions:
Capillary GC      -
  Instrument      : GC3400TCO
  Column          : J&W DB-1 128-1052
  Column Length   : 50m x 0.20 mm x 0.33um
  Carrier Gas     : Helium
  Flow Rate       : 25 cm/s @ 300C
  Split Ratio     : Splitless >50
  Temperature     : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1      : FID, 350C, 1 x 10-12
  Detector 2      :
  Notes           :

Total number of peaks detected: 31
```

Total Chromatographable Organics (C7-C17)

Trial Burn Sampling and Analysis

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
5.266		1.3	0.0013	0.13	0.13	11231	100	1	5	1	
5.445		1.2	0.0012	0.12	0.12	10909	100	1	5	1	
5.870		14.7	0.0147	1.47	1.47	130781	100	15	59	15	
7.028		21.3	0.0213	2.13	2.13	189934	100	21	85	21	
8.143	C10	22.3	0.0223	2.23	2.23	198545	100	22	89	22	
8.893		1.2	0.0012	0.12	0.12	10495	100	1	5	1	
8.982		1.9	0.0019	0.19	0.19	16561	100	2	7	2	
9.065		1.5	0.0015	0.15	0.15	13698	100	2	6	2	
9.170		21.3	0.0213	2.13	2.13	189863	100	21	85	21	
9.574		6.5	0.0065	0.65	0.65	57895	100	6	26	6	
9.684		2.0	0.0020	0.20	0.20	18065	100	2	8	2	
10.106	C12	21.7	0.0217	2.17	2.17	193876	100	22	87	22	
10.965		22.4	0.0224	2.24	2.24	199674	100	22	90	22	
11.762	C14	21.1	0.0211	2.11	2.11	188163	100	21	84	21	
12.507		20.5	0.0205	2.05	2.05	182370	100	20	82	20	
13.206		20.7	0.0207	2.07	2.07	184824	100	21	83	21	
13.868	TCO Surrogates	8.1e-93	8.1e-96	8.09e-94	8.1e-94	808664	100	###	###	###	3
		201.5	0.2015	20.15	20.15	2605547					

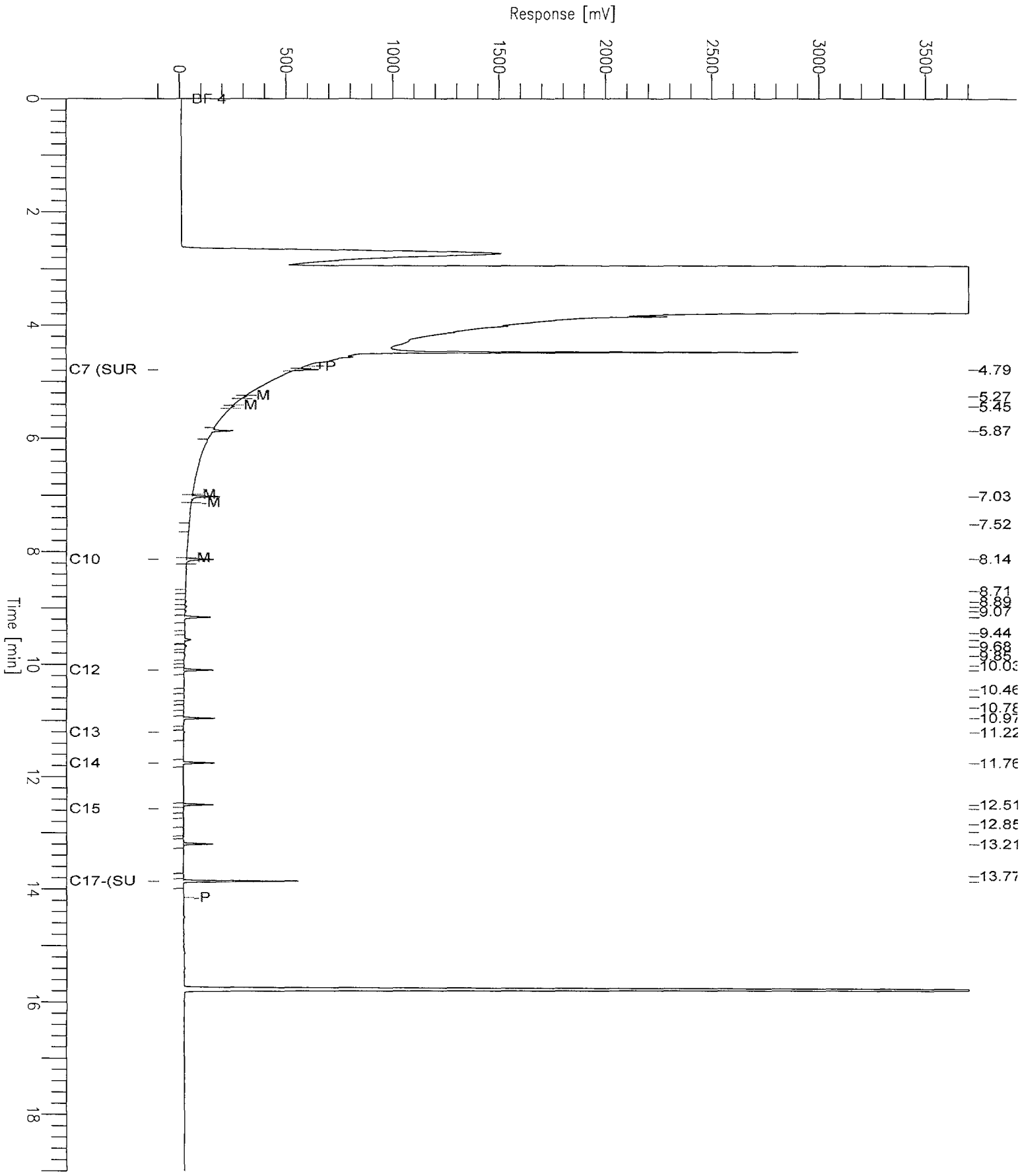
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.793	C7 (SURR) Heptane	17.2	0.0172	1.72	1.72	103257	100	17	69	17
13.868	C17-(SURR) Heptadeca	87.4	0.0874	8.74	8.74	705407	100	87	350	87
		104.6	0.1046	10.46	10.46	808664				

Chromatogram

Sample Name : H2LT21ADL
FileName : K:\#GTO\#SEQ\A25G6\G#A5202.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

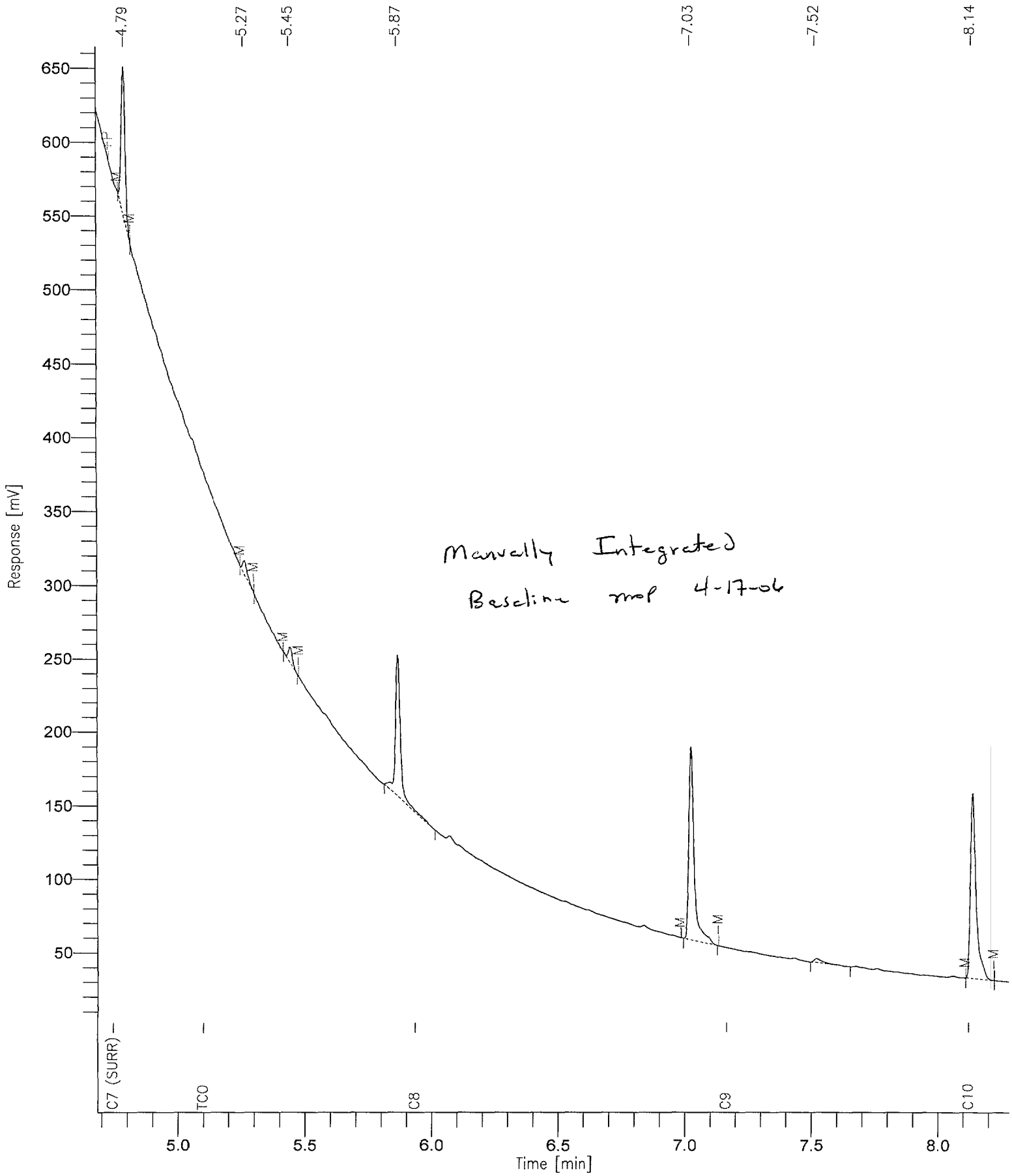
Sample #: 202 Page 1 of 1
Date : 4/17/2006 10:02 AM
Time of Injection: 4/16/2006 07:07 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



Chromatogram

Sample Name : H2LT21ADL
FileName : K:\#GTO\#SEQ\A25G6\G#A5202.RAW
Method :
Start Time : 4.68 min End Time : 8.28 min
Scale Factor: 0.0 Plot Offset: 2 mV

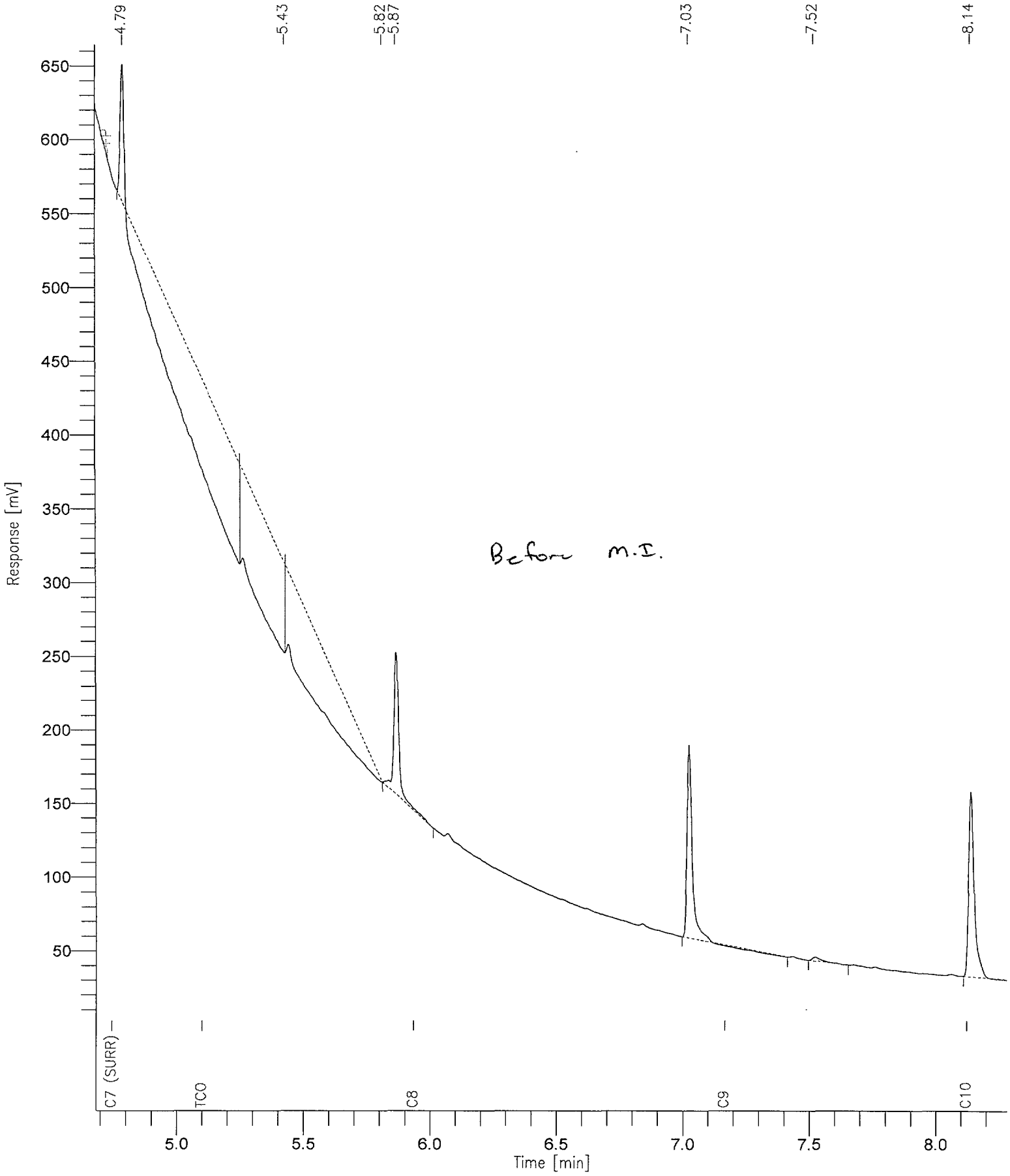
Sample #: 202 Page 1 of 1
Date : 4/17/2006 10:02 AM
Time of Injection: 4/16/2006 07:07 PM
Low Point : 2.27 mV High Point : 664.33 mV
Plot Scale: 662.1 mV



Chromatogram

Sample Name : H2LT21ADL
FileName : K:\#GTO\#SEQ\A25G6\G#A5202.RAW
Method :
Start Time : 4.68 min End Time : 8.28 min
Scale Factor: 0.0 Plot Offset: 2 mV

Sample #: 202 Page 1 of 1
Date : 4/17/2006 10:01 AM
Time of Injection: 4/16/2006 07:07 PM
Low Point : 2.27 mV High Point : 664.33 mV
Plot Scale: 662.1 mV



METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT11AA **Matrix.....:** AIR
MB Lot-Sample #: H6D050000-033

Prep Date.....: 04/05/06
Analysis Date..: 04/16/06 **Prep Batch #...:** 6095033
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Chromatographable Organics	**0.019 J**	**0.050**	**mg**	**EPA-18 TCO**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	109	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

```
Software Version: 4.1<2F12>
Sample Name   : H2LT11AAB                          Time   : 4/17/2006  10:28 AM
Sample Number: 208                                 Study  : BLK
Operator      : Analyst

Instrument    : GTO                        Channel : A     A/D mV Range : 10000
AutoSampler   :
Rack/Vial     : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 4/16/2006  09:42 PM
Delay Time      : 0.00   min.
End Time        : 19.00  min.
Sampling Rate   : 10.0000  pts/sec

Raw Data File     : K:\#GTO\#SEQ\A25G6\G#A5208.RAW
Result File       : K:\#GTO\#SEQ\A25G6\G#A5208.rst
Inst Method       : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5208.rst
Proc Method       : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method      : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File     : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume     : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount     : 1.0000                 Dilution Factor  : 1.00

Noise Threshold: 20           Area Threshold   : 2000     Bunch Factor: 4
Multiplier      : 0.0100      Divisor  : 1.0000       Addend  : 0.0000
User1           :                      User2         :
User3           :                      User4         :
User5           :

Instrument Conditions:
Capillary GC      -
  Instrument      : GC3400TCO
  Column          : J&W DB-1 128-1052
  Column Length   : 50m x 0.20 mm x 0.33um
  Carrier Gas     : Helium
  Flow Rate       : 25 cm/s @ 300C
  Split Ratio     : Splitless >50
  Temperature     : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1      : FID, 350C, 1 x 10-12
  Detector 2      :
  Notes           :

Total number of peaks detected: 12
```

Total Chromatographable Organics (C7-C17)

==========

Trial Burn Sampling and Analysis

==========

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
10.785		4.0	0.0040	0.40	0.40	35238	100	4	16	4	
11.309		3.5	0.0035	0.35	0.35	31225	100	4	14	4	
11.619		4.0	0.0040	0.40	0.40	35988	100	4	16	4	
13.191		5.7	0.0057	0.57	0.57	50847	100	6	23	6	
13.868	TCO Surrogates	1.0e-92	1.0e-95	1.02e-93	1.0e-93	1019139	100	###	###	###	2
13.947		1.5	0.0015	0.15	0.15	13699	100	2	6	2	
		18.7	0.0187	1.87	1.87	1186136					

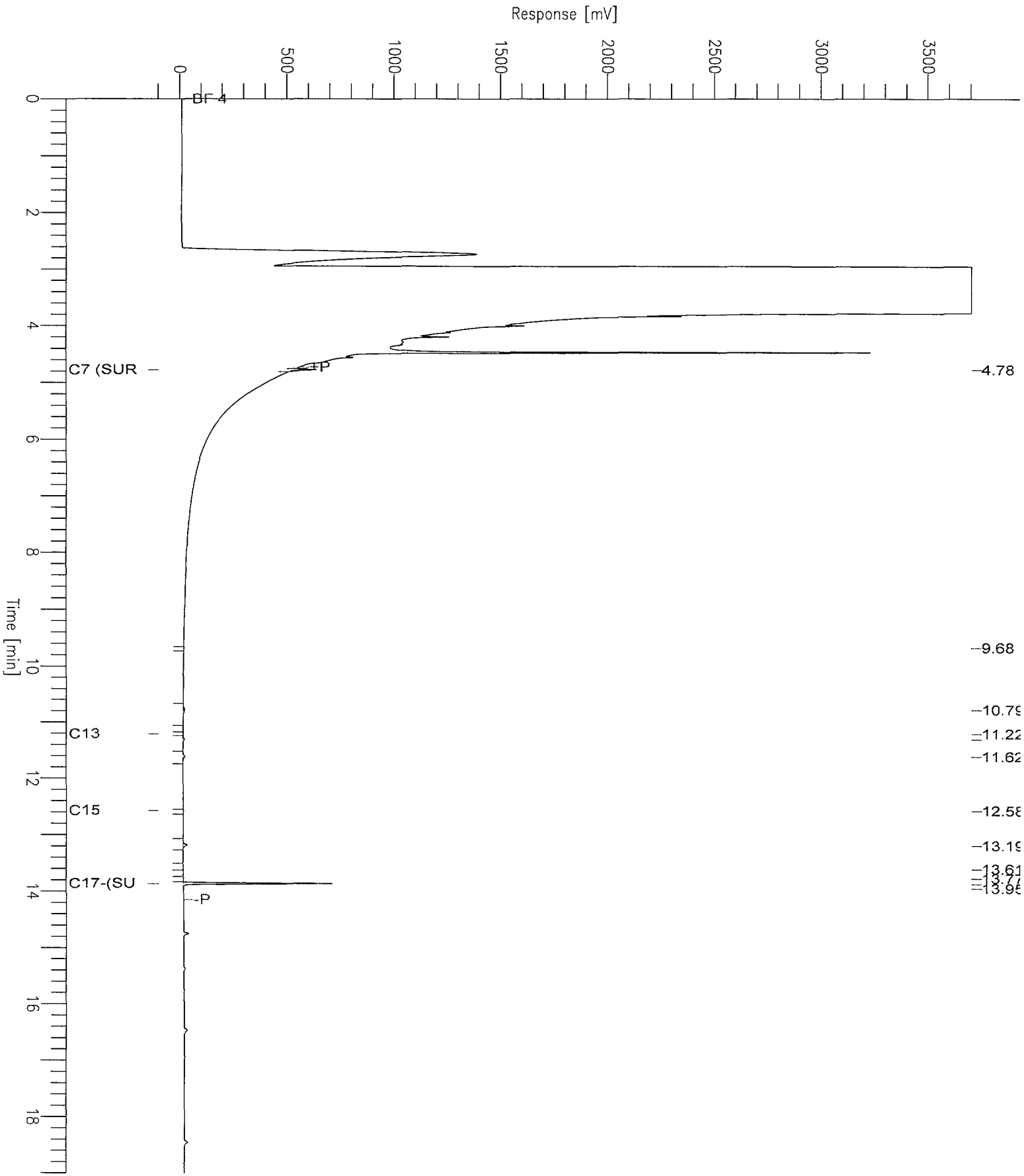
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.780	C7 (SURR) Heptane	18.4	0.0184	1.84	1.84	111010	100	18	74	18
13.868	C17-(SURR) Heptadeca	112.5	0.1125	11.25	11.25	908129	100	112	450	112
		130.9	0.1309	13.09	13.09	1019139				

Chromatogram

Sample Name : H2LT11AAB
FileName : K:\#GTO\#SEQ\A25G6\G#A5208.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

Sample #: 208 Page 1 of 1
Date : 4/17/2006 10:28 AM
Time of Injection: 4/16/2006 09:42 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT11AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-033 H2LT11AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/16/06
Prep Batch #...: 6095033
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Total Chromatographable Organics	**92**	**(50 - 150)**			**EPA-18 TCO**
	92	**(50 - 150)**	**0.48**	**(0-35)**	**EPA-18 TCO**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	105	(50 - 150)
	102	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT11AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-033 H2LT11AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/16/06
Prep Batch #...: 6095033
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Total Chromatographable Organics	**0.225**	**0.208**	**mg**	**92**		**EPA-18 TCO**
	0.225	**0.207**	**mg**	**92**	**0.48**	**EPA-18 TCO**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Heptadecane	105	(50 - 150)
	102	(50 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

```
Software Version: 4.1<2F12>
Sample Name  : H2LT11ACC                          Time  : 4/17/2006  10:28 AM
Sample Number: 209                                Study : LCS
Operator     : Analyst

Instrument   : GTO                        Channel : A     A/D mV Range : 10000
AutoSampler  :
Rack/Vial    : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 4/16/2006  10:07 PM
Delay Time     : 0.00   min.
End Time       : 19.00  min.
Sampling Rate  : 10.0000  pts/sec

Raw Data File    : K:\#GTO\#SEQ\A25G6\G#A5209.RAW
Result File      : K:\#GTO\#SEQ\A25G6\G#A5209.rst
Inst Method      : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5209.rst
Proc Method      : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method     : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File    : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume    : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount    : 1.0000                 Dilution Factor  : 1.00

Noise Threshold: 20          Area Threshold   : 2000     Bunch Factor: 4
Multiplier     : 0.0100      Divisor  : 1.0000       Addend  : 0.0000
User1          :                     User2        :
User3          :                     User4        :
User5          :

Instrument Conditions:
Capillary GC     -
  Instrument     : GC3400TCO
  Column         : J&W DB-1 128-1052
  Column Length  : 50m x 0.20 mm x 0.33um
  Carrier Gas    : Helium
  Flow Rate      : 25 cm/s @ 300C
  Split Ratio    : Splitless >50
  Temperature    : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1     : FID, 350C, 1 x 10-12
  Detector 2     :
  Notes          :

Total number of peaks detected: 19
```

Total Chromatographable Organics (C7-C17)

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
5.864		18.2	0.0182	1.82	1.82	162115	100	18	73	18	
7.031		25.8	0.0258	2.58	2.58	230207	100	26	103	26	
8.149	C10	26.7	0.0267	2.67	2.67	237702	100	27	107	27	
9.178		25.6	0.0256	2.56	2.56	228077	100	26	102	26	
10.115	C12	25.7	0.0257	2.57	2.57	229056	100	26	103	26	
10.974		25.8	0.0258	2.58	2.58	229994	100	26	103	26	
11.771	C14	25.3	0.0253	2.53	2.53	225996	100	25	101	25	
12.516		24.5	0.0245	2.45	2.45	218892	100	25	98	25	
13.216		24.7	0.0247	2.47	2.47	220462	100	25	99	25	
13.877	TCO Surrogates	9.6e-93	9.6e-96	9.61e-94	9.6e-94	960675	100	###	###	###	2
13.956		4.4	0.0044	0.44	0.44	39125	100	4	18	4	
		226.7	0.2267	22.67	22.67	2982300					

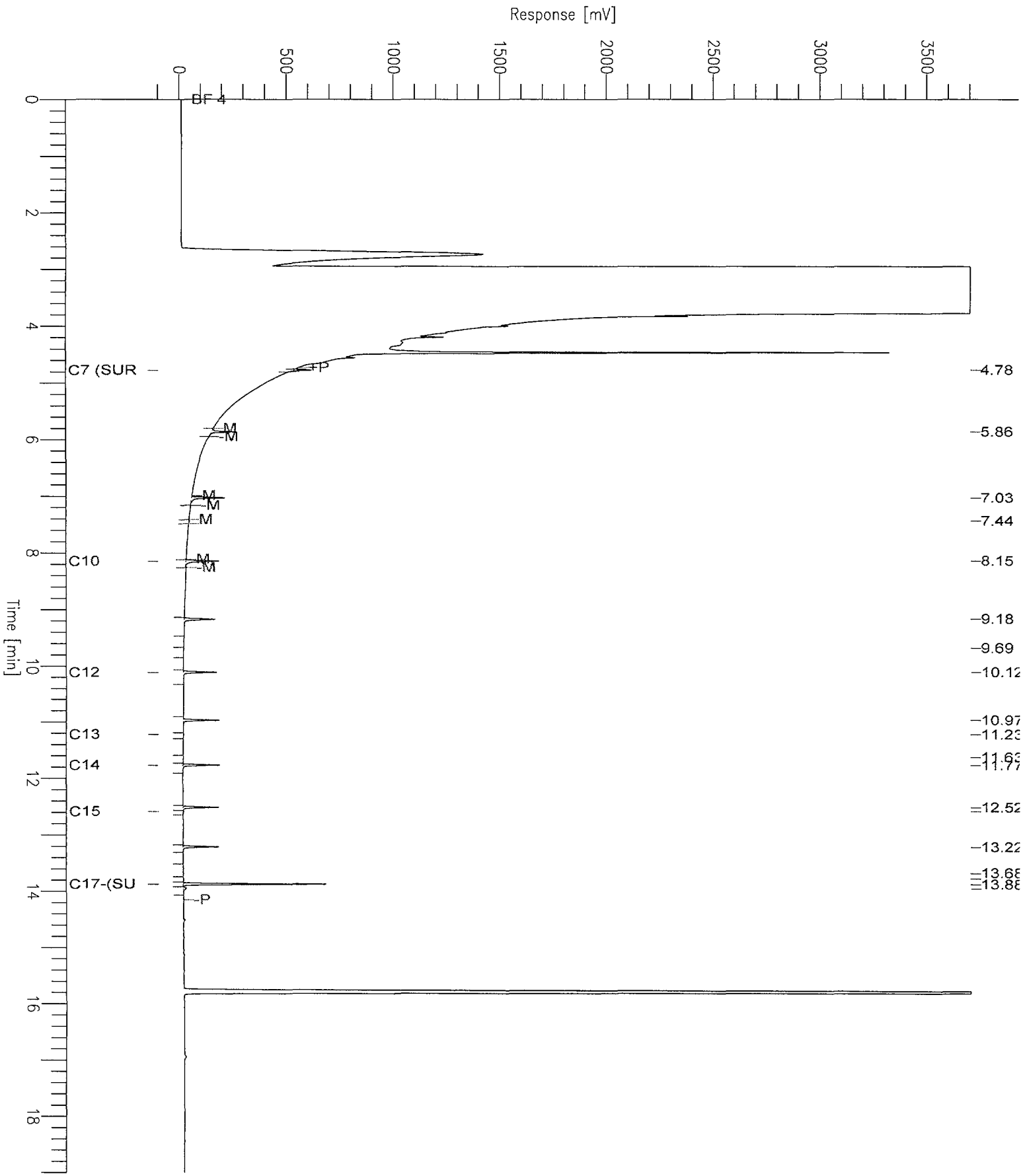
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.778	C7 (SURR) Heptane	15.1	0.0151	1.51	1.51	90645	100	15	60	15
13.877	C17-(SURR) Heptadeca	107.8	0.1078	10.78	10.78	870030	100	108	431	108
		122.9	0.1229	12.29	12.29	960675				

Chromatogram

Sample Name : H2LT11ACC
FileName : K:\#GTO\#SEQ\A25G6\G#A5209.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

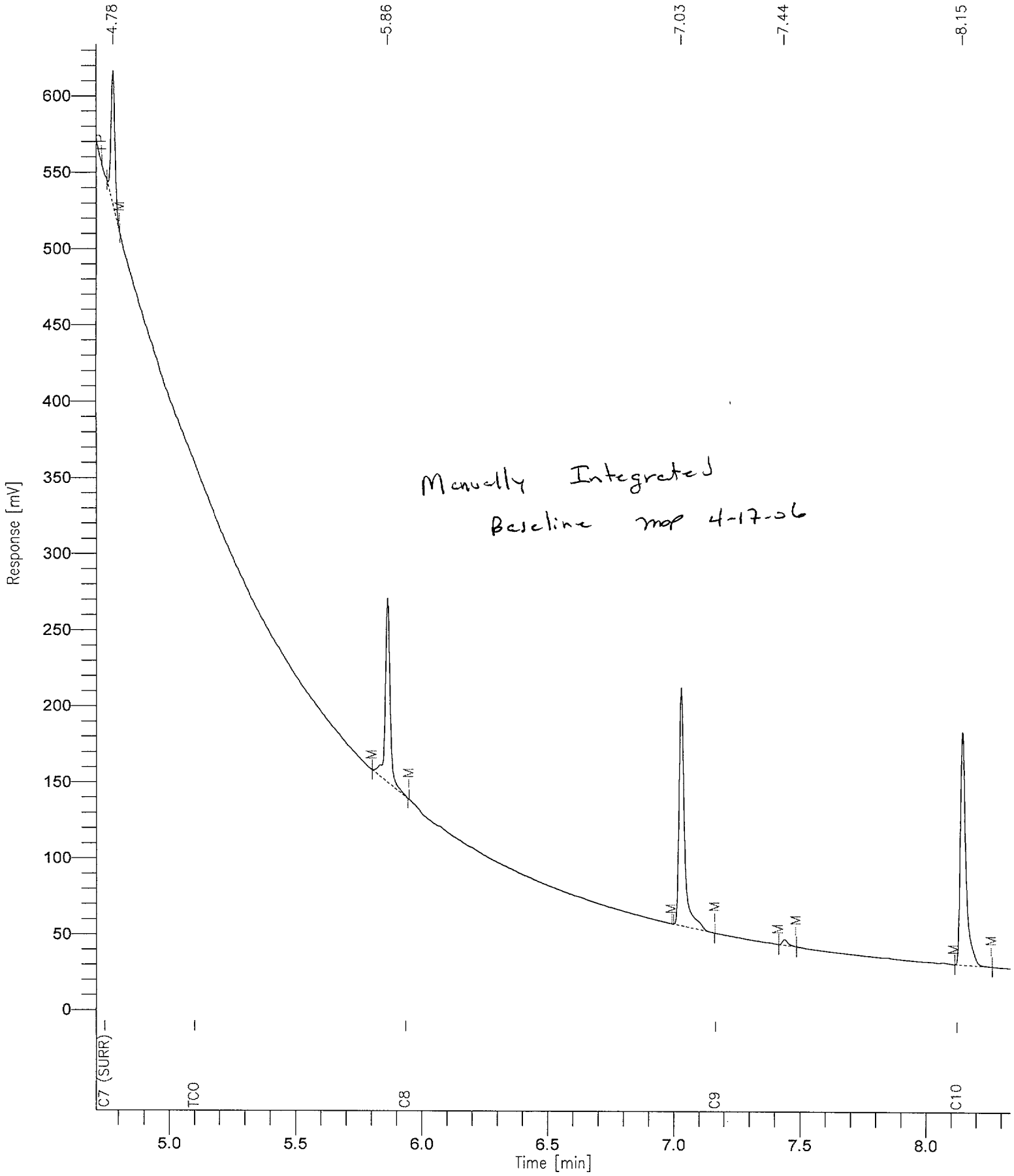
Sample #: 209 Page 1 of 1
Date : 4/17/2006 10:28 AM
Time of Injection: 4/16/2006 10:07 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



Chromatogram

Sample Name : H2LT11ACC
FileName : K:\#GTO\#SEQ\A25G6\G#A5209.RAW
Method :
Start Time : 4.71 min End Time : 8.34 min
Scale Factor: 0.0 Plot Offset: -7 mV

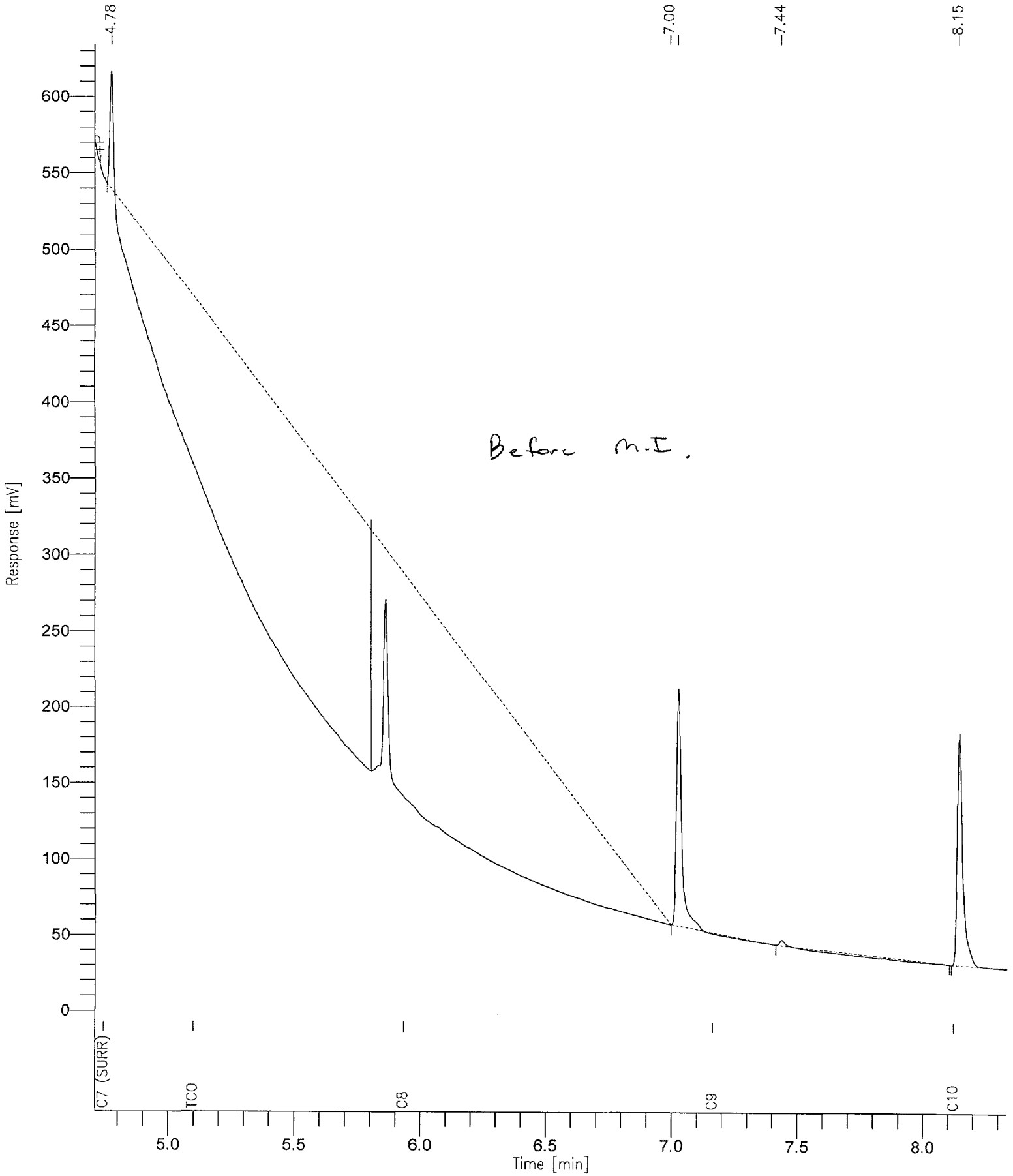
Sample #: 209 Page 1 of 1
Date : 4/17/2006 10:27 AM
Time of Injection: 4/16/2006 10:07 PM
Low Point : -7.35 mV High Point : 633.98 mV
Plot Scale: 641.3 mV



Chromatogram

Sample Name : H2LT11ACC
FileName : K:\#GTO\#SEQ\A25G6\G#A5209.RAW
Method :
Start Time : 4.71 min End Time : 8.34 min
Scale Factor: 0.0 Plot Offset: -7 mV

Sample #: 209 Page 1 of 1
Date : 4/17/2006 10:27 AM
Time of Injection: 4/16/2006 10:07 PM
Low Point : -7.35 mV High Point : 633.98 mV
Plot Scale: 641.3 mV



Before m.I.

```
Software Version: 4.1<2F12>
Sample Name  : H2LT11ADL                          Time  : 4/17/2006  10:29 AM
Sample Number: 210                                Study : LCS DUP
Operator     : Analyst

Instrument   : GTO                        Channel : A     A/D mV Range : 10000
AutoSampler  :
Rack/Vial    : 0/0

Interface Serial # : 1168573804   Data Acquisition Time: 4/16/2006  10:33 PM
Delay Time     : 0.00   min.
End Time       : 19.00  min.
Sampling Rate  : 10.0000  pts/sec

Raw Data File    : K:\#GTO\#SEQ\A25G6\G#A5210.RAW
Result File      : K:\#GTO\#SEQ\A25G6\G#A5210.rst
Inst Method      : K:\#GTO\#MTHCALB\TC00125 from K:\#GTO\#SEQ\A25G6\G#A5210.rst
Proc Method      : K:\#GTO\#MTHCALB\TC00125.mth
Calib Method     : K:\#GTO\#MTHCALB\TC00125.mth
Sequence File    : K:\#GTO\#SEQ\TCO0125.SEQ

Sample Volume    : 1.0000     ul          Area Reject      : 10000.000000
Sample Amount    : 1.0000                 Dilution Factor  : 1.00

Noise Threshold: 20          Area Threshold   : 2000     Bunch Factor: 4
Multiplier     : 0.0100      Divisor  : 1.0000       Addend  : 0.0000
User1          :                      User2        :
User3          :                      User4        :
User5          :

Instrument Conditions:
Capillary GC     -
  Instrument     : GC3400TCO
  Column         : J&W DB-1 128-1052
  Column Length  : 50m x 0.20 mm x 0.33um
  Carrier Gas    : Helium
  Flow Rate      : 25 cm/s @ 300C
  Split Ratio    : Splitless >50
  Temperature    : 65C (2M) to 300C (5m) @ 20C/min
  Injection Temp.: 275C
  Detector 1     : FID, 350C, 1 x 10-12
  Detector 2     :
  Notes          :

Total number of peaks detected: 26
```

Total Chromatographable Organics (C7-C17)

Trial Burn Sampling and Analysis

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec	
5.444		3.8	0.0038	0.38	0.38	33894	100	4	15	4	
5.868		16.9	0.0169	1.69	1.69	150950	100	17	68	17	
6.623		1.4	0.0014	0.14	0.14	12129	100	1	5	1	
7.027		25.5	0.0255	2.55	2.55	227132	100	25	102	25	
8.141	C10	26.2	0.0262	2.62	2.62	233453	100	26	105	26	
9.169		25.2	0.0252	2.52	2.52	224501	100	25	101	25	
10.043		1.6	0.0016	0.16	0.16	14413	100	2	6	2	
10.106	C12	25.9	0.0259	2.59	2.59	231387	100	26	104	26	
10.964		25.0	0.0250	2.50	2.50	223034	100	25	100	25	
11.052		1.2	0.0012	0.12	0.12	10860	100	1	5	1	
11.761	C14	24.7	0.0247	2.47	2.47	219905	100	25	99	25	
12.506		24.2	0.0242	2.42	2.42	215346	100	24	97	24	
13.205		24.1	0.0241	2.41	2.41	214776	100	24	96	24	
13.867	TCO Surrogates	9.4e-93	9.4e-96	9.36e-94	9.4e-94	936005	100	###	###	###	3
		225.6	0.2256	22.56	22.56	2947785					

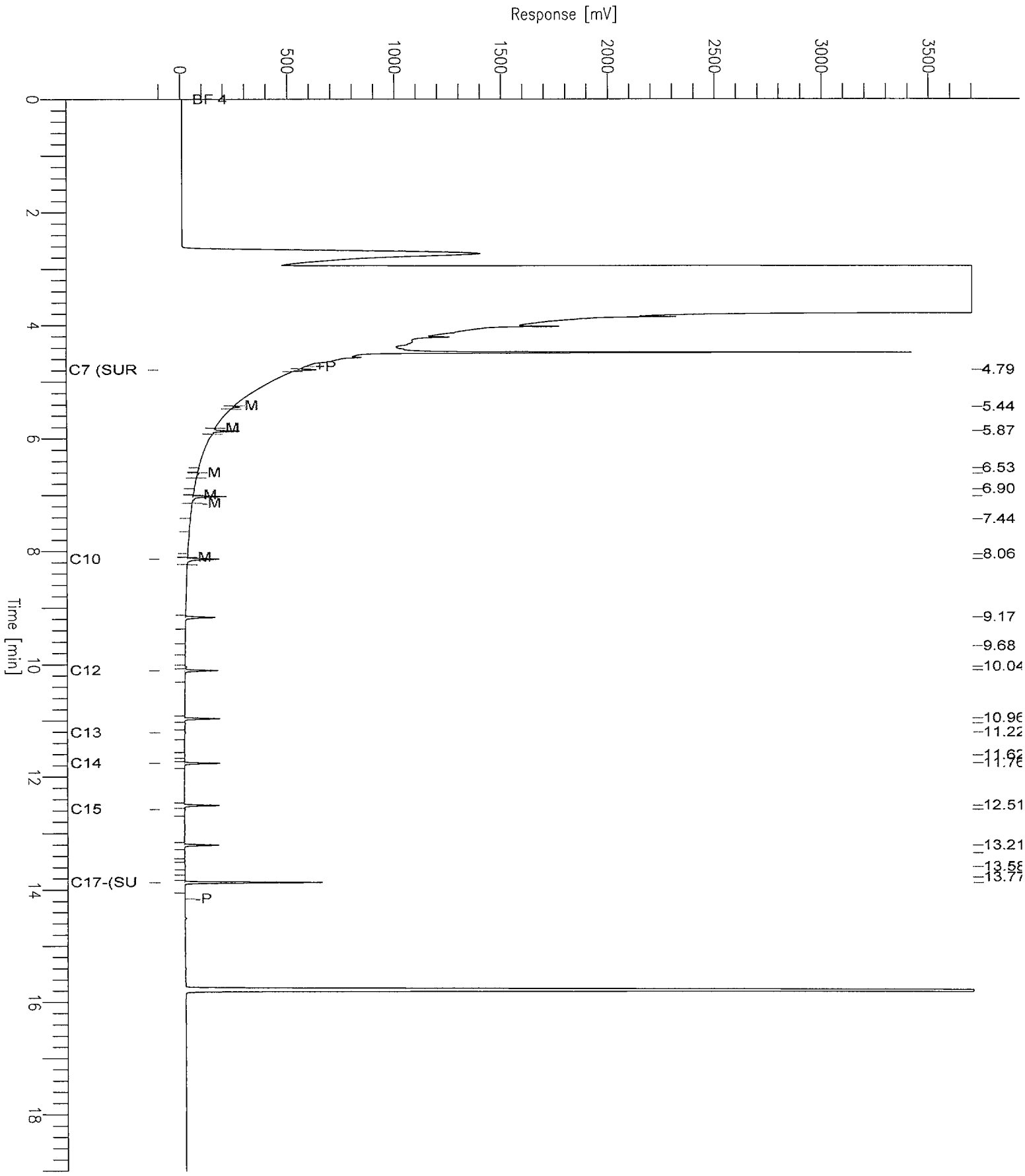
Group Report For : TCO Surrogates

Time [min]	Component Name	Sample Amount (ug)	Sample Amount (mg)	Extract Conc. (mg/L)	Raw Amount	Area [µV·s]	Sur Spike	CCV Rec	LCS Rec	Sur Rec
4.791	C7 (SURR) Heptane	15.0	0.0150	1.50	1.50	89908	100	15	60	15
13.867	C17-(SURR) Heptadeca	104.8	0.1048	10.48	10.48	846097	100	105	419	105
		119.8	0.1198	11.98	11.98	936005				

Chromatogram

Sample Name : H2LT11ADL
FileName : K:\#GTO\#SEQ\A25G6\G#A5210.raw
Method : TC00125
Start Time : 0.00 min End Time : 19.00 min
Scale Factor: 0.0 Plot Offset: -100 mV

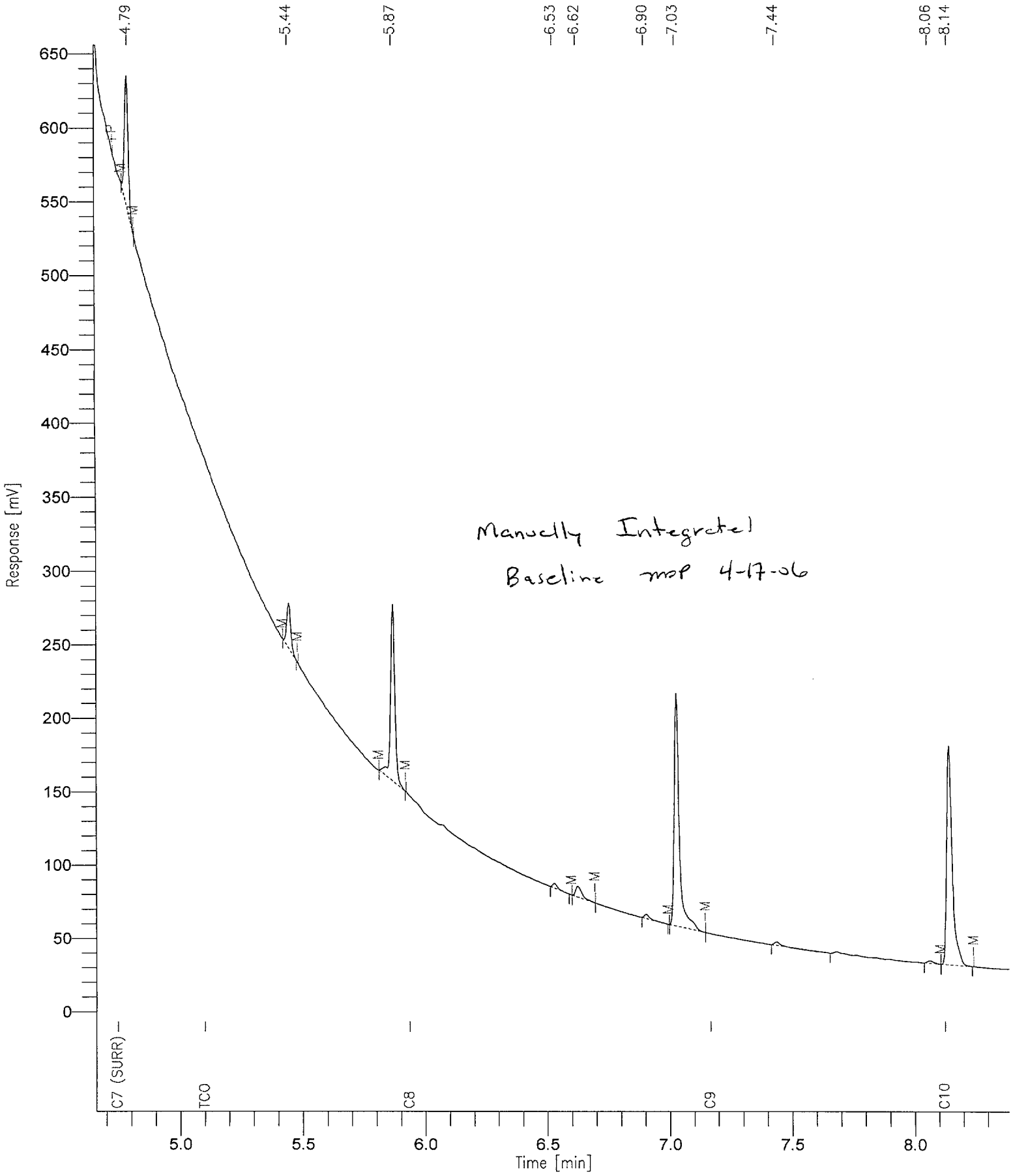
Sample #: 210 Page 1 of 1
Date : 4/17/2006 10:29 AM
Time of Injection: 4/16/2006 10:33 PM
Low Point : -100.00 mV High Point : 3700.00 mV
Plot Scale: 3800.0 mV



Chromatogram

Sample Name : H2LT11ADL
FileName : K:\#GTO\#SEQ\A25G6\G#A5210.RAW
Method :
Start Time : 4.66 min End Time : 8.39 min
Scale Factor: 0.0 Plot Offset: -7 mV

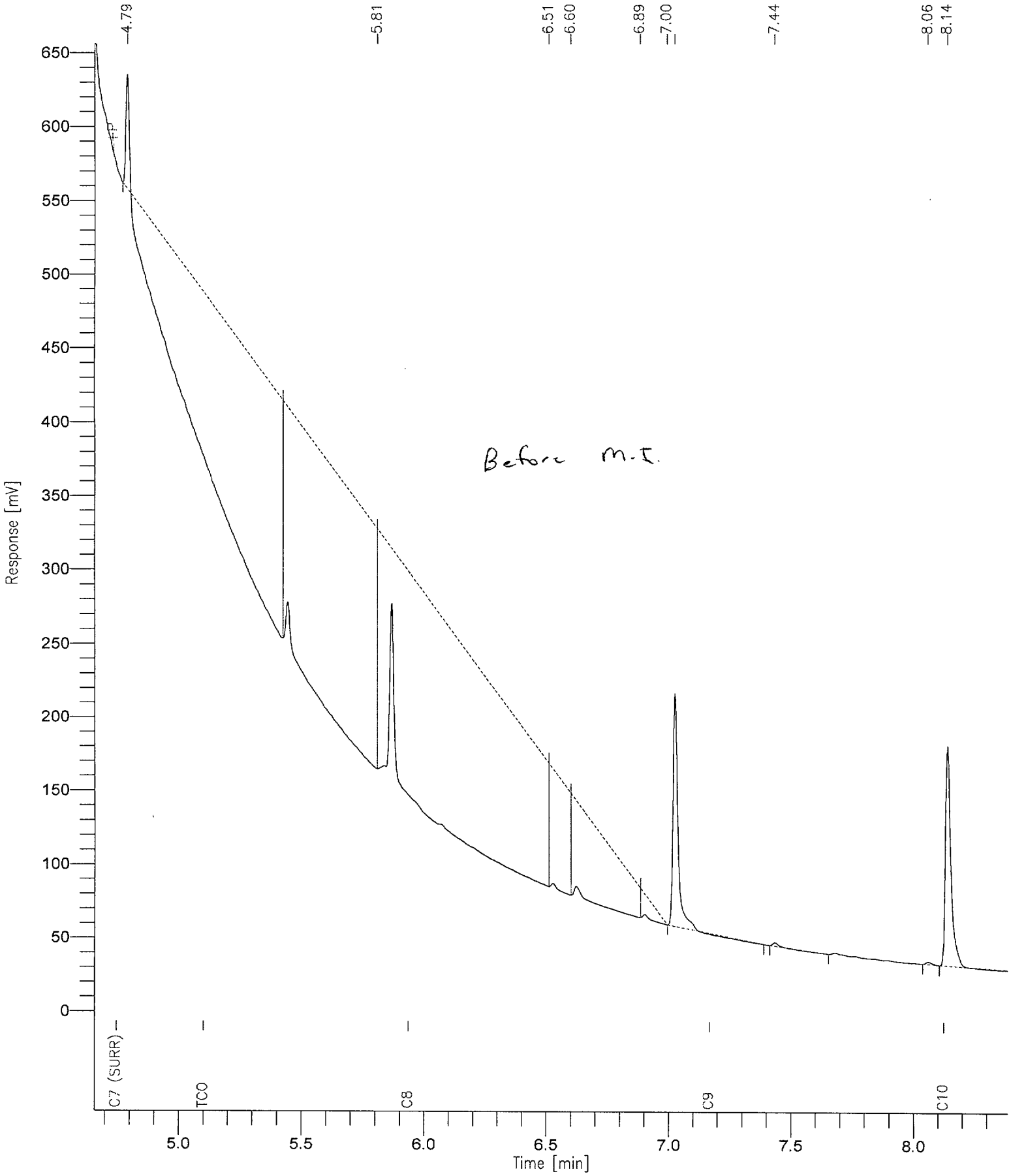
Sample #: 210 Page 1 of 1
Date : 4/17/2006 10:28 AM
Time of Injection: 4/16/2006 10:33 PM
Low Point : -6.86 mV High Point : 656.02 mV
Plot Scale: 662.9 mV



Chromatogram

Sample Name : H2LT11ADL
FileName : K:\#GTO\#SEQ\A25G6\G#A5210.RAW
Method :
Start Time : 4.66 min End Time : 8.39 min
Scale Factor: 0.0 Plot Offset: -7 mV

Sample #: 210 Page 1 of 1
Date : 4/17/2006 10:27 AM
Time of Injection: 4/16/2006 10:33 PM
Low Point : -6.86 mV High Point : 656.02 mV
Plot Scale: 662.9 mV



Gravimetric Data

Gravimetric Audit Sample Preparation Sheet
with Balance Check Record
April 18, 2006

Initial Check				
Nominal Weight (g)	**Actual Weight (g)**	**Difference Weight (g)**	**Allowed Difference (g)**	**Percent Error (%)**
100	100.0001	0.0001	0.0004	0.000%
50	50.0000	0.0000	0.0002	0.000%
5	5.0000	0.0000	0.0001	0.000%
0	0.0000	0.0000	0.0000	NA

Calibrate Balance and Repeat Balance Check if Any Difference Exceeds the Allowed Value

Final Check				
Nominal Weight (g)	**Actual Weight (g)**	**Difference Weight (g)**	**Allowed Difference (g)**	**Percent Error (%)**
100	N/A	N/A	0.0004	N/A
50	N/A	N/A	0.0002	N/A
5	N/A	N/A	0.0001	N/A
0	N/A	N/A	0.0000	N/A

Audit Sample	Date Prepared	Total Weight (g)	Post-Tare Weight (g)	Sample Weight (g)
GR-041806-A	4/18/2006	0.1038	0.0003	0.1035
GR-041806-B	4/18/2006	0.2010	0.0003	0.2007

Signature: mol
Date: 4/18/06
Review: L
Date: 4/24/06

STL Knoxville
Gravimetric Analysis Worksheet
Final Results

Client ID	WO #	Net Mass (g)	GRAV Volume (mL)	Total Volume (mL)	Total Mass Uncorrected (mg)	Total Mass Corrected (mg)	Expected Mass (mg)	% Recovery	RPD
Methylene Chloride Blank	$MeCl_2$ Blank	0.00017	5.0	10.0	0.33	NA	NA	NA	NA
INTRA-LAB BLANK	H2LT41AA	0.00020	5.0	10.0	0.40	NA	NA	NA	NA
INTRA-LAB CHECK	H2LT41AC	0.00127	5.0	10.0	2.53	2.13	2.5	85%	NA
INTRA-LAB CHECK	H2LT41AD	0.00140	5.0	10.0	2.80	2.40	2.5	96%	11.8%
G-2931/2932-R1-MM5 FRONT HALF COMP	H2H0E1AC	0.00043	5.0	10.0	0.87	0.47	NA	NA	NA
G-3043/3044-R2-MM5 FRONT HALF COMP	H2H0J1AC	0.00040	5.0	10.0	0.80	0.40	NA	NA	NA
G-3115/3116-R3-MM5 FRONT HALF COMP	H2H0R1AC	0.00043	5.0	10.0	0.87	0.47	NA	NA	NA
G-3121/3122-R3-MM5 FRONT HALF COMP	H2H001AC	0.00037	5.0	10.0	0.73	0.33	NA	NA	NA
A-5382 MEDIA CHECK FILTER	H2H061AC	0.00037	5.0	10.0	0.73	0.33	NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
GRAV AUDIT SAMPLE	GR-041806-A	0.05037	5.0	10.0	100.73	NA	103.5	97%	NA
GRAV AUDIT SAMPLE	GR-041806-A	0.05123	5.0	10.0	102.47	NA	103.5	99%	1.7%
GRAV AUDIT SAMPLE	GR-041806-B	0.09670	5.0	10.0	193.40	NA	200.7	96%	NA
GRAV AUDIT SAMPLE	GR-041806-B	0.09930	5.0	10.0	198.60	NA	200.7	99%	2.7%

STL Knoxville
Gravimetric Analysis Worksheet
Initial and Final Weights

Batch Number: 6095034
Prep Date: 04/05/2006 1330
Comp Date: 04/08/2006 0830

Lot Number	Lot Sample Number	Suffix	Method Code	Client ID	WO #	Pan No.	Initial Weights (g)				Final Weights (g)			
							1	2	3	Average	1	2	3	Average
				Methylene Chloride Blank	$MeCl_2$ Blank	1	2.9003	2.9003	2.9004	2.9003	2.9005	2.9005	2.9005	2.9005
H6D050000	34	B	INXF	INTRA-LAB BLANK	H2LT41AA	2	2.9013	2.9013	2.9013	2.9013	2.9015	2.9015	2.9015	2.9015
H6D050000	34	C	INXF	INTRA-LAB CHECK	H2LT41AC	3	2.8987	2.8987	2.8988	2.8987	2.9000	2.9000	2.9000	2.9000
H6D050000	34	L	INXF	INTRA-LAB CHECK	H2LT41AD	4	2.8999	2.8999	2.9000	2.8999	2.9014	2.9013	2.9013	2.9013
H6D030231	1		INXF	G-2931/2932-R1-MM5 FRONT HALF COMP	H2H0E1AC	5	2.9001	2.9001	2.9002	2.9001	2.9005	2.9006	2.9006	2.9006
H6D030231	4		INXF	G-3043/3044-R2-MM5 FRONT HALF COMP	H2H0J1AC	6	2.9005	2.9005	2.9006	2.9005	2.9010	2.9009	2.9009	2.9009
H6D030231	7		INXF	G-3115/3116-R3-MM5 FRONT HALF COMP	H2H0R1AC	7	2.9005	2.9005	2.9005	2.9005	2.9009	2.9009	2.9010	2.9009
H6D030231	10		INXF	G-3121/3122-R3-MM5 FRONT HALF COMP	H2H001AC	8	2.9004	2.9004	2.9004	2.9004	2.9007	2.9008	2.9008	2.9008
H6D030231	15		INXF	A-5382 MEDIA CHECK FILTER	H2H061AC	9	2.8992	2.8992	2.8993	2.8992	2.8996	2.8996	2.8996	2.8996
				GRAV AUDIT SAMPLE	GR-041806-A	10	2.9020	2.9020	2.9021	2.9020	2.9524	2.9524	2.9524	2.9524
				GRAV AUDIT SAMPLE	GR-041806-A D	11	2.9006	2.9006	2.9007	2.9006	2.9518	2.9519	2.9519	2.9519
				GRAV AUDIT SAMPLE	GR-041806-B	12	2.9030	2.9030	2.9031	2.9030	2.9997	2.9997	2.9998	2.9997
				GRAV AUDIT SAMPLE	GR-041806-B D	13	2.9008	2.9008	2.9008	2.9008	3.0001	3.0001	3.0001	3.0001

Balance Check	Acceptance Criteria	Initial Weights (g)				Final Weights (g)			
		1	2	3	Average	1	2	3	Average
0 g	+/- 0.0000 g	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5 g	+/- 0.0001 g	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
50 g	+/- 0.0002 g	50.0000	50.0000	50.0000	50.0000	50.0000	50.0000	50.0000	50.0000
100 g	+/- 0.0004 g	100.0001	100.0001	100.0001	100.0001	100.0001	100.0001	100.0001	100.0001

STL Knoxville
Gravimetric Analysis Raw Data Worksheet

			Initial Weights (g)					Final Weights (g)				
Client ID	WO #	Pan No.	1	2	3	4	5	1	2	3	4	5
Methylene Chloride Blank	$MeCl_2$ Blank	1	2.9003	2.9003	2.9004			2.9005	2.9005	2.9005		
INTRA-LAB BLANK	H2LT41AA	2	2.9013	2.9013	2.9013			2.9015	2.9015	2.9015		
INTRA-LAB CHECK	H2LT41AC	3	2.8987	2.8987	2.8988			2.9000	2.9000	2.9000		
INTRA-LAB CHECK	H2LT41AD	4	2.8999	2.8999	2.9000			2.9014	2.9013	2.9013		
G-2931/2932-R1-MM5 FRONT HALF COMF	H2H0E1AC	5	2.9001	2.9001	2.9002			2.9005	2.9006	2.9006		
G-3043/3044-R2-MM5 FRONT HALF COMF	H2H0J1AC	6	2.9005	2.9005	2.9006			2.9010	2.9009	2.9009		
G-3115/3116-R3-MM5 FRONT HALF COMF	H2H0R1AC	7	2.9005	2.9005	2.9005			2.9009	2.9009	2.9010		
G-3121/3122-R3-MM5 FRONT HALF COMF	H2H001AC	8	2.9004	2.9004	2.9004			2.9007	2.9008	2.9008		
A-5382 MEDIA CHECK FILTER	H2H061AC	9	2.8992	2.8992	2.8993			2.8996	2.8996	2.8996		
GRAV AUDIT SAMPLE	GR-041806-A	10	2.9020	2.9020	2.9021			2.9524	2.9524	2.9524		
GRAV AUDIT SAMPLE	GR-041806-A D	11	2.9006	2.9006	2.9007			2.9518	2.9519	2.9519		
GRAV AUDIT SAMPLE	GR-041806-B	12	2.9030	2.9030	2.9031			2.9997	2.9997	2.9998		
GRAV AUDIT SAMPLE	GR-041806-B D	13	2.9008	2.9008	2.9008			3.0001	3.0001	3.0001		
			Initial Weights (g)					Final Weights (g)				
Balance Check	Acceptance Criteria		1	2	3	4	5	1	2	3	4	5
0 g	+/- 0.0000 g		0.0000					0.0000				
5 g	+/- 0.0001 g		5.0000					5.0000				
50 g	+/- 0.0002 g		50.0000					50.0000				
100 g	+/- 0.0004 g		100.0001					100.0001				
	Analysis Date:		4/19/06					4/23/06				
	Analyst:		mop					mop				

STL Knoxville
Gravimetric Analysis Worksheet
Final Results

Client ID	WO #	Net Mass (g)	GRAV Volume (mL)	Total Volume (mL)	Total Mass Uncorrected (mg)	Total Mass Corrected (mg)	Expected Mass (mg)	% Recovery	RPD
Methylene Chloride Blank	$MeCl_2$ Blank	0.00017	5.0	10.0	0.33	NA	NA	NA	NA
INTRA-LAB BLANK	H2LT51AA	0.00017	5.0	10.0	0.33	NA	NA	NA	NA
INTRA-LAB CHECK	H2LT51AC	0.00140	5.0	10.0	2.80	2.47	2.5	99%	NA
INTRA-LAB CHECK	H2LT51AD	0.00130	5.0	10.0	2.60	2.27	2.5	91%	8.5%
G-2933/2934-R1-MM5 BACK HALF COMPO	H2H0G1AC	0.00113	5.0	10.0	2.27	1.93	NA	NA	NA
G-3045/3046-R2-MM5 BACK HALF COMPO	H2H0M1AC	0.00083	5.0	10.0	1.67	1.33	NA	NA	NA
G-3117/3118-R3-MM5 BACK HALF COMPO	H2H0W1AC	0.00077	5.0	10.0	1.53	1.20	NA	NA	NA
G-3123/3124-R3-MM5 BACK HALF COMPO	H2H011AC	0.00067	5.0	10.0	1.33	1.00	NA	NA	NA
G-3127-R3-MM5 TRAIN C XAD-2 TRIP/RB	H2H031AC	0.00010	5.0	10.0	0.20	-0.13	NA	NA	NA
A-5380 MEDIA CHECK XAD	H2H051AC	0.00007	5.0	10.0	0.13	-0.20	NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
GRAV AUDIT SAMPLE	GR-041806-A	0.05037	5.0	10.0	100.73	NA	103.5	97%	NA
GRAV AUDIT SAMPLE	GR-041806-A	0.05123	5.0	10.0	102.47	NA	103.5	99%	1.7%
GRAV AUDIT SAMPLE	GR-041806-B	0.09670	5.0	10.0	193.40	NA	200.7	96%	NA
GRAV AUDIT SAMPLE	GR-041806-B	0.09930	5.0	10.0	198.60	NA	200.7	99%	2.7%

STL Knoxville
Gravimetric Analysis Worksheet
Initial and Final Weights

Batch Number: 6095035
Prep Date: 04/05/2006 1330
Comp Date: 04/08/2006 0830

Lot Number	Lot Sample Number	Suffix	Method Code	Client ID	WO #	Pan No.	Initial Weights (g)				Final Weights (g)			
							1	2	3	Average	1	2	3	Average
				Methylene Chloride Blank	$MeCl_2$ Blank	1	2.9003	2.9003	2.9004	2.9003	2.9005	2.9005	2.9005	2.9005
H6D050000	35	B	IOXF	INTRA-LAB BLANK	H2LT51AA	14	2.9008	2.9008	2.9009	2.9008	2.9010	2.9010	2.9010	2.9010
H6D050000	35	C	IOXF	INTRA-LAB CHECK	H2LT51AC	15	2.8999	2.8999	2.8999	2.8999	2.9013	2.9013	2.9013	2.9013
H6D050000	35	L	IOXF	INTRA-LAB CHECK	H2LT51AD	16	2.9005	2.9005	2.9005	2.9005	2.9018	2.9018	2.9018	2.9018
H6D030231	2		IOXF	G-2933/2934-R1-MM5 BACK HALF COMPO	H2H0G1AC	17	2.8986	2.8986	2.8987	2.8986	2.8998	2.8998	2.8997	2.8998
H6D030231	5		IOXF	G-3045/3046-R2-MM5 BACK HALF COMPO	H2H0M1AC	18	2.8987	2.8987	2.8988	2.8987	2.8995	2.8996	2.8996	2.8996
H6D030231	8		IOXF	G-3117/3118-R3-MM5 BACK HALF COMPO	H2H0W1AC	19	2.9015	2.9015	2.9016	2.9015	2.9023	2.9023	2.9023	2.9023
H6D030231	11		IOXF	G-3123/3124-R3-MM5 BACK HALF COMPO	H2H011AC	20	2.9006	2.9006	2.9006	2.9006	2.9012	2.9013	2.9013	2.9013
H6D030231	13		IOXF	G-3127-R3-MM5 TRAIN C XAD-2 TRIP/RB	H2H031AC	21	2.9005	2.9005	2.9005	2.9005	2.9006	2.9006	2.9006	2.9006
H6D030231	14		IOXF	A-5380 MEDIA CHECK XAD	H2H051AC	22	2.9002	2.9002	2.9003	2.9002	2.9003	2.9003	2.9003	2.9003
				GRAV AUDIT SAMPLE	GR-041806-A	10	2.9020	2.9020	2.9021	2.9020	2.9524	2.9524	2.9524	2.9524
				GRAV AUDIT SAMPLE	GR-041806-A D	11	2.9006	2.9006	2.9007	2.9006	2.9518	2.9519	2.9519	2.9519
				GRAV AUDIT SAMPLE	GR-041806-B	12	2.9030	2.9030	2.9031	2.9030	2.9997	2.9997	2.9998	2.9997
				GRAV AUDIT SAMPLE	GR-041806-B D	13	2.9008	2.9008	2.9008	2.9008	3.0001	3.0001	3.0001	3.0001
					Acceptance		Initial Weights (g)				Final Weights (g)			
				Balance Check	Criteria		1	2	3	Average	1	2	3	Average
				0 g	+/- 0.0000 g		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
				5 g	+/- 0.0001 g		5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
				50 g	+/- 0.0002 g		50.0000	50.0000	50.0000	50.0000	50.0000	50.0000	50.0000	50.0000
				100 g	+/- 0.0004 g		100.0001	100.0001	100.0001	100.0001	100.0001	100.0001	100.0001	100.0001

STL Knoxville
Gravimetric Analysis Raw Data Worksheet

Client ID	WO #	Pan No.	Initial Weights (g) 1	2	3	4	5	Final Weights (g) 1	2	3	4	5
Methylene Chloride Blank	$MeCl_2$ Blank	1	2.9003	2.9003	2.9004			2.9005	2.9005	2.9005		
INTRA-LAB BLANK	H2LT51AA	14	2.9008	2.9008	2.9009			2.9010	2.9010	2.9010		
INTRA-LAB CHECK	H2LT51AC	15	2.8999	2.8999	2.8999			2.9013	2.9013	2.9013		
INTRA-LAB CHECK	H2LT51AD	16	2.9005	2.9005	2.9005			2.9018	2.9018	2.9018		
G-2933/2934-R1-MM5 BACK HALF COMPC	H2H0G1AC	17	2.8986	2.8986	2.8987			2.8998	2.8998	2.8997		
G-3045/3046-R2-MM5 BACK HALF COMPC	H2H0M1AC	18	2.8987	2.8987	2.8988			2.8995	2.8996	2.8996		
G-3117/3118-R3-MM5 BACK HALF COMPC	H2H0W1AC	19	2.9015	2.9015	2.9016			2.9023	2.9023	2.9023		
G-3123/3124-R3-MM5 BACK HALF COMPC	H2H011AC	20	2.9006	2.9006	2.9006			2.9012	2.9013	2.9013		
G-3127-R3-MM5 TRAIN C XAD-2 TRIP/RB	H2H031AC	21	2.9005	2.9005	2.9005			2.9006	2.9006	2.9006		
A-5380 MEDIA CHECK XAD	H2H051AC	22	2.9002	2.9002	2.9003			2.9003	2.9003	2.9003		
GRAV AUDIT SAMPLE	GR-041806-A	10	2.9020	2.9020	2.9021			2.9524	2.9524	2.9524		
GRAV AUDIT SAMPLE	GR-041806-A D	11	2.9006	2.9006	2.9007			2.9518	2.9519	2.9519		
GRAV AUDIT SAMPLE	GR-041806-B	12	2.9030	2.9030	2.9031			2.9997	2.9997	2.9998		
GRAV AUDIT SAMPLE	GR-041806-B D	13	2.9008	2.9008	2.9008			3.0001	3.0001	3.0001		

Balance Check	Acceptance Criteria		Initial Weights (g) 1	2	3	4	5	Final Weights (g) 1	2	3	4	5
0 g	+/- 0.0000 g		0.0000					0.0000				
5 g	+/- 0.0001 g		5.0000					5.0000				
50 g	+/- 0.0002 g		50.0000					50.0000				
100 g	+/- 0.0004 g		100.0001					100.0001				
		Analysis Date:	4/19/06					4/23/06				
		Analyst:	mcl					mcl				

STL Knoxville
Gravimetric Analysis Worksheet
Final Results

Client ID	WO #	Net Mass (g)	GRAV Volume (mL)	Total Volume (mL)	Total Mass Uncorrected (mg)	Total Mass Corrected (mg)	Expected Mass (mg)	% Recovery	RPD
Methylene Chloride Blank	$MeCl_2$ Blank	0.00017	5.0	10.0	0.33	NA	NA	NA	NA
INTRA-LAB BLANK	H2LT61AA	0.00010	5.0	10.0	0.20	NA	NA	NA	NA
INTRA-LAB CHECK	H2LT61AC	0.00123	5.0	10.0	2.47	2.27	2.5	91%	NA
INTRA-LAB CHECK	H2LT61AD	0.00127	5.0	10.0	2.53	2.33	2.5	93%	2.9%
G-2935/2936-R1-MM5 IMPINGER COMPOS	H2H0H1AC	0.00023	5.0	10.0	0.47	0.27	NA	NA	NA
G-3047/3048-R2-MM5 IMPINGER COMPOS	H2H0N1AC	0.00017	5.0	10.0	0.33	0.13	NA	NA	NA
G-3119/3120-R3-MM5 IMPINGER COMPOS	H2H0X1AC	0.00010	5.0	10.0	0.20	0.00	NA	NA	NA
G-3125/3126-R3-MM5 IMPINGER COMPOS	H2H021AC	0.00017	5.0	10.0	0.33	0.13	NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
							NA	NA	NA
GRAV AUDIT SAMPLE	GR-041806-A	0.05037	5.0	10.0	100.73	NA	103.5	97%	NA
GRAV AUDIT SAMPLE	GR-041806-A	0.05123	5.0	10.0	102.47	NA	103.5	99%	1.7%
GRAV AUDIT SAMPLE	GR-041806-B	0.09670	5.0	10.0	193.40	NA	200.7	96%	NA
GRAV AUDIT SAMPLE	GR-041806-B	0.09930	5.0	10.0	198.60	NA	200.7	99%	2.7%

* Dilution Factor Applied to account for only portion of condensate being used.

Dil Factor
↓
×2.53 = 0.683
×2.24 = 0.291
×2.32 = 0

STL Knoxville
Gravimetric Analysis Worksheet
Initial and Final Weights

Batch Number: 6095036
Prep Date: 04/05/2006 1345
Comp Date: 04/07/2006 0700

Lot Number	Lot Sample Number	Suffix	Method Code	Client ID	WO #	Pan No.	Initial Weights (g)				Final Weights (g)			
							1	2	3	Average	1	2	3	Average
				Methylene Chloride Blank	$MeCl_2$ Blank	1	2.9003	2.9003	2.9004	2.9003	2.9005	2.9005	2.9005	2.9005
H6D050000	36	B	10XF	INTRA-LAB BLANK	H2LT61AA	23	2.9002	2.9002	2.9003	2.9002	2.9003	2.9004	2.9003	2.9003
H6D050000	36	C	10XF	INTRA-LAB CHECK	H2LT61AC	24	2.9001	2.9001	2.9002	2.9001	2.9014	2.9014	2.9013	2.9014
H6D050000	36	L	10XF	INTRA-LAB CHECK	H2LT61AD	25	2.8975	2.8975	2.8976	2.8975	2.8988	2.8988	2.8988	2.8988
H6D030231	3		10XF	G-2935/2936-R1-MM5 IMPINGER COMPOS	H2H0H1AC	26	2.8993	2.8993	2.8993	2.8993	2.8995	2.8995	2.8996	2.8995
H6D030231	6		10XF	G-3047/3048-R2-MM5 IMPINGER COMPOS	H2H0N1AC	27	2.9021	2.9021	2.9021	2.9021	2.9023	2.9022	2.9023	2.9023
H6D030231	9		10XF	G-3119/3120-R3-MM5 IMPINGER COMPOS	H2H0X1AC	28	2.9003	2.9003	2.9003	2.9003	2.9004	2.9004	2.9004	2.9004
H6D030231	12		10XF	G-3125/3126-R3-MM5 IMPINGER COMPOS	H2H021AC	29	2.9016	2.9016	2.9017	2.9016	2.9018	2.9018	2.9018	2.9018
				GRAV AUDIT SAMPLE	GR-041806-A	10	2.9020	2.9020	2.9021	2.9020	2.9524	2.9524	2.9524	2.9524
				GRAV AUDIT SAMPLE	GR-041806-A D	11	2.9006	2.9006	2.9007	2.9006	2.9518	2.9519	2.9519	2.9519
				GRAV AUDIT SAMPLE	GR-041806-B	12	2.9030	2.9030	2.9031	2.9030	2.9997	2.9997	2.9998	2.9997
				GRAV AUDIT SAMPLE	GR-041806-B D	13	2.9008	2.9008	2.9008	2.9008	3.0001	3.0001	3.0001	3.0001
					Acceptance		Initial Weights (g)				Final Weights (g)			
				Balance Check	Criteria		1	2	3	Average	1	2	3	Average
				0 g	+/- 0.0000 g		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
				5 g	+/- 0.0001 g		5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
				50 g	+/- 0.0002 g		50.0000	50.0000	50.0000	50.0000	50.0000	50.0000	50.0000	50.0000
				100 g	+/- 0.0004 g		100.0001	100.0001	100.0001	100.0001	100.0001	100.0001	100.0001	100.0001

STL Knoxville
Gravimetric Analysis Raw Data Worksheet

			Initial Weights (g)					Final Weights (g)				
Client ID	WO #	Pan No.	1	2	3	4	5	1	2	3	4	5
Methylene Chloride Blank	$MeCl_2$ Blank	1	2.9003	2.9003	2.9004			2.9005	2.9005	2.9005		
INTRA-LAB BLANK	H2LT61AA	23	2.9002	2.9002	2.9003			2.9003	2.9004	2.9003		
INTRA-LAB CHECK	H2LT61AC	24	2.9001	2.9001	2.9002			2.9014	2.9014	2.9013		
INTRA-LAB CHECK	H2LT61AD	25	2.8975	2.8975	2.8976			2.8988	2.8988	2.8988		
G-2935/2936-R1-MM5 IMPINGER COMPOS	H2H0H1AC	26	2.8993	2.8993	2.8993			2.8995	2.8995	2.8996		
G-3047/3048-R2-MM5 IMPINGER COMPOS	H2H0N1AC	27	2.9021	2.9021	2.9021			2.9023	2.9022	2.9023		
G-3119/3120-R3-MM5 IMPINGER COMPOS	H2H0X1AC	28	2.9003	2.9003	2.9003			2.9004	2.9004	2.9004		
G-3125/3126-R3-MM5 IMPINGER COMPOS	H2H021AC	29	2.9016	2.9016	2.9017			2.9018	2.9018	2.9018		
GRAV AUDIT SAMPLE	GR-041806-A	10	2.9020	2.9020	2.9021			2.9524	2.9524	2.9524		
GRAV AUDIT SAMPLE	GR-041806-A D	11	2.9006	2.9006	2.9007			2.9518	2.9519	2.9519		
GRAV AUDIT SAMPLE	GR-041806-B	12	2.9030	2.9030	2.9031			2.9997	2.9997	2.9998		
GRAV AUDIT SAMPLE	GR-041806-B D	13	2.9008	2.9008	2.9008			3.0001	3.0001	3.0001		
	Acceptance		Initial Weights (g)					Final Weights (g)				
Balance Check	Criteria		1	2	3	4	5	1	2	3	4	5
0 g	+/- 0.0000 g		0.0000					0.0000				
5 g	+/- 0.0001 g		5.0000					5.0000				
50 g	+/- 0.0002 g		50.0000					50.0000				
100 g	+/- 0.0004 g		100.0001					100.0001				
		Analysis Date:	4/19/06					4/22/06				
		Analyst:	mp					mp				

STL Knoxville - ACS

Client Sample ID: G-2931/2932-R1-MM5 FRONT HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-001	**Work Order #...:** H2H0E1AC	**Matrix.....:** AIR	
Date Sampled...: 03/28/06	**Date Received..:** 04/02/06		
Prep Date.....: 04/05/06	**Analysis Date..:** 04/23/06		
Prep Batch #...: 6095034			
Dilution Factor: 1	**Method.....:** EPA-18 GRAV		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	**0.47 J,B**	**0.50**	**mg**	**0.18**

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-2933/2934-R1-MM5 BACK HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-002	Work Order #...: H2H0G1AC	Matrix.....: AIR	
Date Sampled...: 03/28/06	Date Received..: 04/02/06		
Prep Date.....: 04/05/06	Analysis Date..: 04/23/06		
Prep Batch #...: 6095035			
Dilution Factor: 1	Method.....: EPA-18 GRAV		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	1.9 B	0.50	mg	0.25

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-2935/2936-R1-MM5 IMPINGER COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-003	Work Order #...: H2H0H1AC	Matrix.....: AIR	
Date Sampled...: 03/28/06	Date Received..: 04/02/06		
Prep Date.....: 04/05/06	Analysis Date..: 04/23/06		
Prep Batch #...: 6095036			
Dilution Factor: 2.53	Method.....: EPA-18 GRAV		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	0.68 J	1.3	mg	0.63

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

Client Sample ID: G-3043/3044-R2-MM5 FRONT HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-004	Work Order #...: H2H0J1AC	Matrix.....: AIR	
Date Sampled...: 03/29/06	Date Received..: 04/02/06		
Prep Date.....: 04/05/06	Analysis Date..: 04/23/06		
Prep Batch #...: 6095034			
Dilution Factor: 1	Method.....: EPA-18 GRAV		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	0.40 J,B	0.50	mg	0.18

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3045/3046-R2-MM5 BACK HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-005	**Work Order #...:** H2H0M1AC	**Matrix.....:** AIR	
Date Sampled...: 03/29/06	**Date Received..:** 04/02/06		
Prep Date.....: 04/05/06	**Analysis Date..:** 04/23/06		
Prep Batch #...: 6095035			
Dilution Factor: 1	**Method.....:** EPA-18 GRAV		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	**1.3 B**	**0.50**	**mg**	**0.25**

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3047/3048-R2-MM5 IMPINGER COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-006 **Work Order #...:** H2H0N1AC **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/23/06
Prep Batch #...: 6095036
Dilution Factor: 2.24 **Method.....:** EPA-18 GRAV

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	ND	1.1	mg	0.56

STL Knoxville - ACS

Client Sample ID: G-3115/3116-R3-MM5 FRONT HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...:	H6D030231-007	**Work Order #...:**	H2H0R1AC	**Matrix.....:**	AIR
Date Sampled...:	03/30/06	**Date Received..:**	04/02/06		
Prep Date.....:	04/05/06	**Analysis Date..:**	04/23/06		
Prep Batch #...:	6095034				
Dilution Factor:	1	**Method.....:**	EPA-18 GRAV		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	**0.47 J,B**	**0.50**	**mg**	**0.18**

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3117/3118-R3-MM5 BACK HALF COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-008	**Work Order #...:** H2H0W1AC	**Matrix.....:** AIR	
Date Sampled...: 03/30/06	**Date Received..:** 04/02/06		
Prep Date.....: 04/05/06	**Analysis Date..:** 04/23/06		
Prep Batch #...: 6095035			
Dilution Factor: 1	**Method.....:** EPA-18 GRAV		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	1.2 B	0.50	mg	0.25

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3119/3120-R3-MM5 IMPINGER COMPOSITE TRAIN C

GC Semivolatiles

Lot-Sample #...: H6D030231-009 **Work Order #...:** H2H0X1AC **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/23/06
Prep Batch #...: 6095036
Dilution Factor: 2.32 **Method.....:** EPA-18 GRAV

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	ND	1.2	mg	0.58

STL Knoxville - ACS

Client Sample ID: G-3121/3122-R3-MM5 FRONT HALF COMPOSITE BT C

GC Semivolatiles

Lot-Sample #...:	H6D030231-010	**Work Order #...:**	H2H001AC	**Matrix.....:**	AIR
Date Sampled...:	03/29/06	**Date Received..:**	04/02/06		
Prep Date.....:	04/05/06	**Analysis Date..:**	04/23/06		
Prep Batch #...:	6095034				
Dilution Factor:	1	**Method.....:**	EPA-18 GRAV		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	**0.33 J,B**	**0.50**	**mg**	**0.18**

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3123/3124-R3-MM5 BACK HALF COMPOSITE BT C

GC Semivolatiles

Lot-Sample #...:	H6D030231-011	Work Order #...:	H2H011AC	Matrix.....:	AIR
Date Sampled...:	03/29/06	Date Received..:	04/02/06		
Prep Date.....:	04/05/06	Analysis Date..:	04/23/06		
Prep Batch #...:	6095035				
Dilution Factor:	1	Method.....:	EPA-18 GRAV		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	1.0 B	0.50	mg	0.25

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3125/3126-R3-MM5 IMPINGER COMPOSITE BT C

GC Semivolatiles

Lot-Sample #...: H6D030231-012 **Work Order #...:** H2H021AC **Matrix.....:** AIR
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/23/06
Prep Batch #...: 6095036
Dilution Factor: 1 **Method.....:** EPA-18 GRAV

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	ND	0.50	mg	0.25

STL Knoxville - ACS

Client Sample ID: G-3127-R3-MM5 TRAIN C XAD-2 TRIP/RB

GC Semivolatiles

Lot-Sample #...: H6D030231-013 **Work Order #...:** H2H031AC **Matrix.....:** AIR
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/23/06
Prep Batch #...: 6095035
Dilution Factor: 1 **Method.....:** EPA-18 GRAV

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	ND	0.50	mg	0.25

STL Knoxville - ACS

Client Sample ID: A-5380 MEDIA CHECK XAD

GC Semivolatiles

Lot-Sample #...: H6D030231-014 **Work Order #...:** H2H051AC **Matrix.....:** AIR
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/23/06
Prep Batch #...: 6095035
Dilution Factor: 1 **Method.....:** EPA-18 GRAV

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	ND	0.50	mg	0.25

STL Knoxville - ACS

Client Sample ID: A-5382 MEDIA CHECK FILTER

GC Semivolatiles

Lot-Sample #...:	H6D030231-015	**Work Order #...:**	H2H061AC	**Matrix.....:**	AIR
Date Sampled...:	03/28/06	**Date Received..:**	04/02/06		
Prep Date.....:	04/05/06	**Analysis Date..:**	04/23/06		
Prep Batch #...:	6095034				
Dilution Factor:	1	**Method.....:**	EPA-18 GRAV		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Total Gravimetric Organics	0.33 J,B	0.50	mg	0.18

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT41AA **Matrix.....:** AIR
MB Lot-Sample #: H6D050000-034
Prep Date.....: 04/05/06
Analysis Date..: 04/23/06 **Prep Batch #...:** 6095034
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Gravimetric Organic	0.40 J	0.50	mg	EPA-18 GRAV

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT41AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-034 H2LT41AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/23/06
Prep Batch #...: 6095034
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Total Gravimetric Organics	**85**	**(50 - 150)**			**EPA-18 GRAV**
	96	**(50 - 150)**	**12**	**(0-35)**	**EPA-18 GRAV**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT41AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-034 H2LT41AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/23/06
Prep Batch #...: 6095034
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Total Gravimetric Organics	**2.50**	**2.13**	**mg**	**85**		**EPA-18 GRAV**
	2.50	**2.40**	**mg**	**96**	**12**	**EPA-18 GRAV**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT51AA **Matrix.....:** AIR
MB Lot-Sample #: H6D050000-035

Prep Date.....: 04/05/06
Analysis Date..: 04/23/06 **Prep Batch #...:** 6095035
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Gravimetric Organic	0.33 J	0.50	mg	EPA-18 GRAV

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT51AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-035 H2LT51AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/23/06
Prep Batch #...: 6095035
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Total Gravimetric Organics	**99**	**(50 - 150)**			**EPA-18 GRAV**
	91	**(50 - 150)**	**8.4**	**(0-35)**	**EPA-18 GRAV**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT51AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-035 H2LT51AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/23/06
Prep Batch #...: 6095035
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Total Gravimetric Organics	**2.50**	**2.47**	**mg**	**99**		**EPA-18 GRAV**
	2.50	**2.27**	**mg**	**91**	**8.4**	**EPA-18 GRAV**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT61AA **Matrix.....:** AIR
MB Lot-Sample #: H6D050000-036

Prep Date.....: 04/05/06
Analysis Date..: 04/23/06 **Prep Batch #...:** 6095036
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Gravimetric Organic	ND	0.50	mg	EPA-18 GRAV

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT61AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-036 H2LT61AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/23/06
Prep Batch #...: 6095036
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Total Gravimetric Organics	**91**	**(50 - 150)**			**EPA-18 GRAV**
	93	**(50 - 150)**	**2.6**	**(0-35)**	**EPA-18 GRAV**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: H6D030231 **Work Order #...:** H2LT61AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: H6D050000-036 H2LT61AD-LCSD
Prep Date.....: 04/05/06 **Analysis Date..:** 04/23/06
Prep Batch #...: 6095036
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Total Gravimetric Organics	**2.50**	**2.27**	**mg**	**91**		**EPA-18 GRAV**
	2.50	**2.33**	**mg**	**93**	**2.6**	**EPA-18 GRAV**

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Miscellaneous Data

STL Knoxville TCO/GRAV Data Review / Narrative Checklist LOT # H6D030231
SOP: KNOX-GC-0010, Rev. 4 Page 1 of 1

Sequence No.:	TC00125					
Scanned File:	TC00125					

Review Items **A. Continuing Calibration**	Yes	No	N/A	2nd Level	If No, why is data reportable?
1. **CCV** analyzed at the beginning, end and after every 20 samples, and within control limits? (85-115%)	✓			✓	
B. Client Sample and QC Sample Results					
1. Were all **special project requirements** met?	✓			✓	
2. Were **Turbochrom** sample IDs, DFs, prep **factors verified**?	✓			✓	
3. Sample analyses done within preparation and analytical **holding time** (HT)? *If no, list samples:* _____	✓			✓	☐ **[ht1]** HT expired upon receipt. ☐ **[ht3]** Analysis requested after HT expired.* ☐ Reanalysis done after HT expired.
4. Same **process file** used for samples and ICAL? (2nd Level - Check 1-2 compounds for batch by manually calculating concentration using the ICAL avg. RF or curve.)	✓			✓	
5. Balance calibration verified and within limits (± 0.4 mg for 100g, ± 0.2 mg for 50 g, ± 0.1 mg for 5 g)?	✓			✓	
6. Were GRAV audit samples within acceptance limits of 80-120% Rec and ≤ 20% RPD?	✓			✓	
7. Are **sample surrogates** within QC limits? (50-150%)	✓			✓	☐ **[sur7]** Obvious matrix interference. ☐ **[sur12]** Surr.%R high and all targets ND.
8. Are positive results **within calibration range**?	✓			✓	
9. Were peaks checked for **saturation**?	✓			✓	
10. Is **integration** acceptable and are all manual integrations properly documented?	✓			✓	
11. Is largest analyte **diluted to 20-100%** of the calibration range?	✓			✓	☐ **[dil1]** Dilution required to prevent contamination of instrument due to non-target compounds.
12. Were runs checked for **carryover**?	✓			✓	
13. Final **report acceptable**? (Results correct, RLs calculated correctly, units correct, surrogate %R correct, appropriate flags used, deviations noted in narrative, dilution factor correct, and extraction/ analysis dates correct.)	✓			✓	
C. Preparation/Matrix QC					
1. **LCS/LCSD** done per prep batch and all analytes and surrogates within laboratory established QC limits? (50-150% R and 35% RPD)	✓			✓	☐ **[lcs3]** LCS %R high and affected analyte(s) were ND in associated samples.
2. **Method blank** done per prep batch, method blank or instrument blank run with each sequence; all analytes should be <5x RL?	✓			✓	☐ **[mb3]** There is no analyte > RL in the samples associated with method blank.*
3. **Method blank surrogate recoveries** within QC limits? (50-150%)	✓			✓	☐ **[mb1]** Sample surrogates OK and there is no analyte >RL in samples associated with blank.*
D. Other					
1. Are all **nonconformances** documented appropriately?			✓	NA	
2. Calculations checked for error?	✓			✓	
3. Final report acceptable? (Results correct, RLs calculated correctly, units correct, appropriate flags used, **deviations noted in narrative**, dilution factor correct, & preparation / analysis dates correct.)	✓			✓	

Analyst: mef	Date: 4/24/06	2nd Level Reviewer:	Date: 4/24/06
Comments:		Comments:	

* Such action must be taken in consultation with client.

TCO Filter

STL KNOXVILLE
Extraction Sheet - Air

Batch 6095031
Extracted By: AJR / MgN
Extraction Start time/date 4-5-06 13:30
Extraction Conc by/date AJR 4-6-06
SOP (Circle one) KNOX-OP-0002 (KNOX-OP-0009)

Spiked by: AJR
Witness Surr/Spike: MgN
Extraction Stop Time/Date: 8:30 4-6-06
Conc. Method Used: (KD) Rapid Vap
Glassware inspected by: AJR
Sulfuric Acid Cleanup by/date: NA

Reagent Lot No:
Methylene Chloride C03E68
Acetone NA
Sodium Sulfate B09615
Hexane NA
Sulfuric Acid
Sodium Hydroxide
Other

Sample Lot Numbers: 1-6D030231

Relinquished by: AJR Date: 4/10/06 Time: 1015
Received by: mcf Date: 1 Time: 1

Comments: acid Extraction: Start: End:
base Extraction: Start: End:

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/10/06
Time: 7:46:41

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
–	–	MS/MSD	Y	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets
					computer batch: correct & all match
			–	–	Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
Y Package Submitted to AnalyticalGroup
Y Bench Sheet Copied per COC

Extractionist: 014113 Annette J. Ribet
060062 Marcus J. Ramsey

Concentrationist: 014113 Annette J. Ribet

QC BATCH: 6095031

PREP DATE: 4/05/06 13:30
COMP DATE: 4/08/06 8:30

Reviewer/Date: RIBETA / 4/10/06

Total Chromatographable Organics (TCO) Analysis
SOXHLET (NOMINAL), Airtrains: Filter/Rinse

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
4/11/06	4/24/06	H6D030231-001 **H2H0E-1-AA**	D	IN	XD	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/12/06	4/24/06	H6D030231-004 **H2H0J-1-AA**	D	IN	XD	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/13/06	4/24/06	H6D030231-007 **H2H0R-1-AA**	D	IN	XD	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/12/06	4/24/06	H6D030231-010 **H2H00-1-AA**	D	IN	XD	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/11/06	4/24/06	H6D030231-015 **H2H06-1-AA**	D	IN	XD	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/11/06	0/00/00	H6D050000-031 **H2LT3-1-AA**B		IN	XD	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/11/06	0/00/00	H6D050000-031 **H2LT3-1-AC**C		IN	XD	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2402 250 UL AI2401 40 UL
COMMENTS:															

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/10/06
Time: 7:46:41

QC BATCH: 6095031

PREP DATE: 4/05/06 13:30
COMP DATE: 4/08/06 8:30

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
		H6D050000-031													
4/11/06	0/00/00	**H2LT3-1-AD**L	R	IN	XD	AIR	**1.0Sample**	NA	NA	NA	MECL2	450.0		.0	AI2402 250 UL
COMMENTS:							10.00mL								AI2401 40 UL

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 8

STL Knoxville Airtrain Prep Worksheet

Batch Number: 6095035, 6095036, 6095031, 6095032, 6095033, 6095034

Lot numbers: H6D030231

Date: 4-5-06 / 4-6-06

Analyst: AJR / MJN

	Sample Number	Front 1/2 (ml) Rinse	Back 1/2 (ml) Rinse	Cond 1 (ml)	Cond 2 (ml)	Cond 3 (ml)	Cond 4 (ml)	Rinse (ml)	Comments
1	H2H0H			990	670	870	NA	160	NA
2	H2H0N			950	350	940		180	
3	H2H0X			990	370	960		100	
4	H2H0R			206	NA	NA		214	
5	H2H0E	118	AJR 4-5-06						
6	H2H0J	105							
7	H2H0R	81							
8	H2H00	94							
9	H2H0G	NA	125			AJR 4-5-06			
10	H2H0M		132						
11	H2H0W		72						
12	H2H01		208						
13									
14									
15							AJR 4-5-06		
16									
17									
18									
19									
20									

TCO
TAD

STL KNOXVILLE
Extraction Sheet - Air

Batch 6095032
Extracted By: AJL/ mgn
Extraction Start time/date 4-5-06 13:30
Extraction Conc by/date AJL 4-6-06
SOP (Circle one) KNOX-OP-0002 (KNOX-OP-0009)

Spiked by: AJL
Witness Surr/Spike: mgn
Extraction Stop Time/Date: 8:30 4/6/06
Conc. Method Used: (KD) Rapid Vap
Glassware inspected by: AJL
Sulfuric Acid Cleanup by/date: NA

Reagent Lot No:
Methylene Chloride C03E68
Acetone NA
Sodium Sulfate B09615
Hexane NA
Sulfuric Acid
Sodium Hydroxide
Other

Sample Lot Numbers: 1/6D030231

Relinquished by: AJL Date: 4-10-06 Time: 10:15
Received by: mar Date: " Time: "

Comments: acid Extraction: Start: End:
base Extraction: Start: End:

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
–	–	MS/MSD	Y	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets
					computer batch: correct & all match
			–	–	Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
Y Package Submitted to AnalyticalGroup
Y Bench Sheet Copied per COC

Extractionist: 014113 Annette J. Ribet
060062 Marcus J. Ramsey

Concentrationist: 014113 Annette J. Ribet

QC BATCH: 6095032

PREP DATE: 4/05/06 13:30
COMP DATE: 4/08/06 8:30

Reviewer/Date: RIBETA / 4/10/06

Total Chromatographable Organics (TCO) Analysis
SOXHLET (NOMINAL), Airtrains: XAD/Rinse

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
4/11/06	4/24/06	H6D030231-002 **H2H0G-1-AA**	D	IO	XD	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/12/06	4/24/06	H6D030231-005 **H2H0M-1-AA**	D	IO	XD	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/13/06	4/24/06	H6D030231-008 **H2H0W-1-AA**	D	IO	XD	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/12/06	4/24/06	H6D030231-011 **H2H01-1-AA**	D	IO	XD	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/13/06	4/24/06	H6D030231-013 **H2H03-1-AA**	D	IO	XD	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/11/06	4/24/06	H6D030231-014 **H2H05-1-AA**	D	IO	XD	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/11/06	0/00/00	H6D050000-032 **H2LT2-1-AA**B		IO	XD	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/10/06
Time: 7:46:32

QC BATCH: 6095032

PREP DATE: 4/05/06 13:30
COMP DATE: 4/08/06 8:30

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
		H6D050000-032													
4/11/06	0/00/00	**H2LT2-1-AC**C		IO	XD	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2402 250 UL AI2401 40 UL
COMMENTS:															
		H6D050000-032													
4/11/06	0/00/00	**H2LT2-1-AD**L	R	IO	XD	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2402 250 UL AI2401 40 UL
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 9

STL Knoxville Airtrain Prep Worksheet

Batch Number: 6095035, 6095036, 6095031, 6095032, 6095033, 6095034

Lot numbers: H6D030231

Date: 4-5-06 / 4-6-06

Analyst: AJR / MAN

	Sample Number	Front 1/2 (ml) Rinse	Back 1/2 (ml) Rinse	Cond 1 (ml)	Cond 2 (ml)	Cond 3 (ml)	Cond 4 (ml)	Rinse (ml)	Comments
1	H2H0H			990	670	870	NA	160	NA
2	H2H0N			950	350	940		180	
3	H2H0X			990	370	960		100	
4	H2H0R			206	NA	NA		214	
5	H2H0E	118	AJR 4-5-06						
6	H2H0J	105							
7	H2H0R	81							
8	H2H00	94							
9	H2H0G	NA	125			AJR 4-5-06			
10	H2H0M		132						
11	H2H0W		72						
12	H2H01		208						
13									
14									
15							AJR 4-5-06		
16									
17									
18									
19									
20									

TCO

STL KNOXVILLE
Extraction Sheet - Air

Batch 6095033
Extracted By: AJR / mgn
Extraction Start time/date 4-5-06 13:45
Extraction Conc by/date AJR 4.7.06
SOP (Circle one) KNOX-OP-0002 (KNOX-OP-0009)

Spiked by: AJR
Witness Surr/Spike: mgn
Extraction Stop Time/Date: 4-6-06 9:30
Conc. Method Used: (KD) Rapid Vap
Glassware inspected by: AJR
Sulfuric Acid Cleanup by/date: NA

Reagent Lot No:
Methylene Chloride C03E68
Acetone NA
Sodium Sulfate B09615
Hexane NA
Sulfuric Acid B051110
Sodium Hydroxide 054174
Other

Sample Lot Numbers: HGD030231

Relinquished by: AJR Date: 4/10/06 Time: 1015
Received by: mgn Date: 〃 Time: 〃

Comments: acid Extraction: Start: 4-5-06 13:45 End: 4-6-06 9:30
base Extraction: Start: 4-6-06 13:00 End: 4-7-06 7:00

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/10/06
Time: 7:46:49

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
–	–	MS/MSD	Y	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets
					computer batch: correct & all match
			–	–	Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
Y Package Submitted to AnalyticalGroup
Y Bench Sheet Copied per COC

Extractionist: 014113 Annette J. Ribet
060062 Marcus J. Ramsey

Concentrationist: 014113 Annette J. Ribet

QC BATCH: 6095033

PREP DATE: 4/05/06 13:45
COMP DATE: 4/07/06 7:00

Reviewer/Date: RIBETA / 4/10/06

Total Chromatographable Organics (TCO) Analysis
LIQ/LIQ, CONT (PAH,P/P,TPH) - Nominal

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
4/11/06	4/24/06	H6D030231-003 **H2H0H-1-AA**	D	10	XD	AIR	**0.395Sampl** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/12/06	4/24/06	H6D030231-006 **H2H0N-1-AA**	D	10	XD	AIR	**0.446Sampl** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/13/06	4/24/06	H6D030231-009 **H2H0X-1-AA**	D	10	XD	AIR	**0.431Sampl** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/12/06	4/24/06	H6D030231-012 **H2H02-1-AA**	D	10	XD	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/11/06	0/00/00	H6D050000-033 **H2LT1-1-AA**B		10	XD	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/11/06	0/00/00	H6D050000-033 **H2LT1-1-AC**C		10	XD	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2402 250 UL AI2401 40 UL
COMMENTS:															
4/11/06	0/00/00	H6D050000-033 **H2LT1-1-AD**L	R	10	XD	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2402 250 UL AI2401 40 UL
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)

NUMBER OF WORK ORDERS IN BATCH: 7

STL Knoxville Airtrain Prep Worksheet

Batch Number: 6095035, 6095036 / 6095031, 6095032, 6095033, 6095034

Lot numbers: H6D030231

Date: 4-5-06 / 4-6-06

Analyst: AJR / MJN

	Sample Number	Front 1/2 (ml) Rinse	Back 1/2 (ml) Rinse	Cond 1 (ml)	Cond 2 (ml)	Cond 3 (ml)	Cond 4 (ml)	Rinse (ml)	Comments
1	H2H0H			990	670	870	NA	160	NA
2	H2H0N			950	350	940		180	
3	H2H0X			990	370	960		100	
4	H2H0R			206	NA	NA		214	
5	H2H0E	118	AJR 4-5-06						
6	H2H0J	105							
7	H2H0R	81							
8	H2H00	94							
9	H2H0G	NA	125			AJR 4-5-06			
10	H2H0M		132						
11	H2H0W		72						
12	H2H01		208						
13									
14									
15							AJR 4-5-06		
16									
17									
18									
19									
20									

GRAV Filter

STL KNOXVILLE
Extraction Sheet - Air

Batch 6095034
Extracted By: AJR / MJP
Extraction Start time/date 4-5-06 13:30
Extraction Conc by/date AJR 4-6-06
SOP (Circle one) KNOX-OP-0002 (KNOX-OP-0009)

Spiked by: AJR
Witness Surr/Spike: MJP
Extraction Stop Time/Date: 4-6-06 8:30
Conc. Method Used: (KD) Rapid Vap
Glassware inspected by: AJR
Sulfuric Acid Cleanup by/date: NA

Reagent Lot No:
Methylene Chloride C03E68
Acetone NA
Sodium Sulfate B09G15
Hexane NA
Sulfuric Acid
Sodium Hydroxide
Other

Sample Lot Numbers: 1-6D030231

Relinquished by: AJR Date: 4-18-06 Time: 13:30
Received by: MJP Date: " Time: "

Comments: acid Extraction: start: End:
base Extraction: Start: End:

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
–	–	MS/MSD	Y	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets computer batch: correct & all match
			–	–	Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
Y Package Submitted to AnalyticalGroup
Y Bench Sheet Copied per COC

Extractionist: 014113 Annette J. Ribet
060062 Marcus J. Ramsey

Concentrationist: 014113 Annette J. Ribet

QC BATCH: 6095034

PREP DATE: 4/05/06 13:30
COMP DATE: 4/08/06 8:30

Reviewer/Date: RIBETA / 4/10/06

Gravimetric Analysis (GRAV)
SOXHLET (NOMINAL), Airtrains: Filter/Rinse

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
4/11/06	4/24/06	H6D030231-001 **H2H0E-1-AC**	D	IN	XF	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/12/06	4/24/06	H6D030231-004 **H2H0J-1-AC**	D	IN	XF	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/13/06	4/24/06	H6D030231-007 **H2H0R-1-AC**	D	IN	XF	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/12/06	4/24/06	H6D030231-010 **H2H00-1-AC**	D	IN	XF	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/11/06	4/24/06	H6D030231-015 **H2H06-1-AC**	D	IN	XF	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/11/06	0/00/00	H6D050000-034 **H2LT4-1-AA**B		IN	XF	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/11/06	0/00/00	H6D050000-034 **H2LT4-1-AC**C		IN	XF	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2402 250 UL AI2401 40 UL
COMMENTS:															

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/10/06
Time: 7:46:37

QC BATCH: 6095034

PREP DATE: 4/05/06 13:30
COMP DATE: 4/08/06 8:30

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
		H6D050000-034													
4/11/06	0/00/00	**H2LT4-1-ADL**	R	IN	XF	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2402 250 UL AI2401 40 UL

COMMENTS:

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 8

STL Knoxville Airtrain Prep Worksheet

Batch Number: 6095035, 6095036, 6095031, 6095032, 6095033, 6095034

Lot numbers: H6D030231

Date: 4-5-06 / 4-6-06

Analyst: AJR / MJM

	Sample Number	Front 1/2 (ml) Rinse	Back 1/2 (ml) Rinse	Cond 1 (ml)	Cond 2 (ml)	Cond 3 (ml)	Cond 4 (ml)	Rinse (ml)	Comments
1	H2H0H			990	670	870	NA	160	NA
2	H2H0N			950	350	940		180	
3	H2H0X			990	370	960		100	
4	H2H0R		AJR 4-5-06	206	NA	NA		214	
5	H2H0E	118							
6	H2H0J	105							
7	H2H0R	81							
8	H2H00	94							
9	H2H0G	NA	125			AJR 4-5-06			
10	H2H0M		132						
11	H2H0W		72						
12	H2H01		208						
13									
14									
15							AJR 4-5-06		
16									
17									
18									
19									
20									

GRAV XAD

STL KNOXVILLE
Extraction Sheet - Air

Batch 6095035
Extracted By: AJR / MJN
Extraction Start time/date 4-5-06 13:30
Extraction Conc by/date AJR 4-6-06
SOP (Circle one) KNOX-OP-0002 (KNOX-OP-0009)

Spiked by: AJR
Witness Surr/Spike: MJN
Extraction Stop Time/Date: 4-6-06 8:30
Conc. Method Used: (KD) Rapid Vap
Glassware inspected by: AJR
Sulfuric Acid Cleanup by/date: NA

Reagent Lot No:
Methylene Chloride C03E68
Acetone NA
Sodium Sulfate B09615
Hexane NA
Sulfuric Acid NA
Sodium Hydroxide
Other

Sample Lot Numbers: 1/6D030231

Relinquished by: AJR Date: 4-18-06 Time: 13:30
Received by: mof Date: " Time: "

Comments: acid Extraction: Start: End:
base Extraction: Start: End:

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/10/06
Time: 7:46:45

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
–	–	MS/MSD	Y	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets computer batch: correct & all match
			–	–	Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
Y Package Submitted to AnalyticalGroup
Y Bench Sheet Copied per COC

Extractionist: 014113 Annette J. Ribet
060062 Marcus J. Ramsey

Concentrationist: 014113 Annette J. Ribet

QC BATCH: 6095035

PREP DATE: 4/05/06 13:30
COMP DATE: 4/08/06 8:30

Reviewer/Date: RIBETA / 4/10/06

Gravimetric Analysis (GRAV)
SOXHLET (NOMINAL), Airtrains: XAD/Rinse

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
4/11/06	4/24/06	H6D030231-002 **H2H0G-1-AC**	D	IO	XF	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/12/06	4/24/06	H6D030231-005 **H2H0M-1-AC**	D	IO	XF	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/13/06	4/24/06	H6D030231-008 **H2H0W-1-AC**	D	IO	XF	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/12/06	4/24/06	H6D030231-011 **H2H01-1-AC**	D	IO	XF	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/13/06	4/24/06	H6D030231-013 **H2H03-1-AC**	D	IO	XF	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/11/06	4/24/06	H6D030231-014 **H2H05-1-AC**	D	IO	XF	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/11/06	0/00/00	H6D050000-035 **H2LT5-1-AA**B		IO	XF	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/10/06
Time: 7:46:45

QC BATCH: 6095035

PREP DATE: 4/05/06 13:30
COMP DATE: 4/08/06 8:30

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
4/11/06	0/00/00	H6D050000-035 **H2LT5-1-ACC**		IO	XF	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2402 250 UL AI2401 40 UL
COMMENTS:															
4/11/06	0/00/00	H6D050000-035 **H2LT5-1-ADL**	R	IO	XF	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2402 250 UL AI2401 40 UL
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 9

STL Knoxville Airtrain Prep Worksheet

Batch Number: 6095035, 6095036, 6095031, 6095032, 6095033, 6095034

Lot numbers: H6D030231

Date: 4-5-06 / 4-6-06

Analyst: AJR / MJN

	Sample Number	Front 1/2 (ml) Rinse	Back 1/2 (ml) Rinse	Cond 1 (ml)	Cond 2 (ml)	Cond 3 (ml)	Cond 4 (ml)	Rinse (ml)	Comments
1	H2H0H			990	670	870	NA	160	NA
2	H2H0N			950	350	940		180	
3	H2H0X			990	370	960		100	
4	H2H0R			206	NA	NA		214	
5	H2H0E	118	AJR 4-5-06						
6	H2H0J	105							
7	H2H0R	81							
8	H2H00	94							
9	H2H0G	NA	125			AJR 4-5-06			
10	H2H0M		132						
11	H2H0W		72						
12	H2H01		208						
13									
14									
15							AJR 4-5-06		
16									
17									
18									
19									
20									

GRAV

STL KNOXVILLE
Extraction Sheet - Air

Batch 6095036
Extracted By: AJR / mgn
Extraction Start time/date 4-5-06 13:45
Extraction Conc by/date AJR 4-7-06
SOP (Circle one) KNOX-OP-0002 (KNOX-OP-0009)

Spiked by: AJR
Witness Surr/Spike: mgn
Extraction Stop Time/Date: 4-6-06 9:30
Conc. Method Used: (KD) Rapid Vap
Glassware inspected by: AJR
Sulfuric Acid Cleanup by/date: NA

Reagent Lot No:
Methylene Chloride C03E68
Acetone NA
Sodium Sulfate B0961S
Hexane NA
Sulfuric Acid B05H10
Sodium Hydroxide C54174
Other

Sample Lot Numbers: H6D030231

Relinquished by: AJR Date: 4-10-06 Time: 10:15
Received by: mgn Date: 〃 Time: 〃

Comments: acid Extraction: Start: 4-5-06 13:45 End: 4-6-06 9:30
base Extraction: Start: 4-6-06 13:00 End: 4-7-06 7:00

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/10/06
Time: 7:46:53

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
_	_	MS/MSD	Y	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets
					computer batch: correct & all match
			_	_	Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
Y Package Submitted to AnalyticalGroup
Y Bench Sheet Copied per COC

Extractionist: 014113 Annette J. Ribet
060062 Marcus J. Ramsey

Concentrationist: 014113 Annette J. Ribet

QC BATCH: 6095036

PREP DATE: 4/05/06 13:45
COMP DATE: 4/07/06 7:00

Reviewer/Date: RIBETA / 4/10/06

Gravimetric Analysis (GRAV)
LIQ/LIQ, CONT (PAH,P/P,TPH) - Nominal

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
4/11/06	4/24/06	H6D030231-003 **H2H0H-1-AC**	D	10	XF	AIR	**0.395Sampl** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/12/06	4/24/06	H6D030231-006 **H2H0N-1-AC**	D	10	XF	AIR	**0.446Sampl** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/13/06	4/24/06	H6D030231-009 **H2H0X-1-AC**	D	10	XF	AIR	**0.461Sampl** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/12/06	4/24/06	H6D030231-012 **H2H02-1-AC**	D	10	XF	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/11/06	0/00/00	H6D050000-036 **H2LT6-1-AA**B		10	XF	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2401 40 UL
COMMENTS:															
4/11/06	0/00/00	H6D050000-036 **H2LT6-1-AC**C		10	XF	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2402 250 UL AI2401 40 UL
COMMENTS:															
4/11/06	0/00/00	H6D050000-036 **H2LT6-1-AD**L	R	10	XF	AIR	**1.0Sample** 10.00mL	NA	NA	NA	MECL2	450.0		.0	AI2402 250 UL AI2401 40 UL
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)

NUMBER OF WORK ORDERS IN BATCH: 7

STL Knoxville Airtrain Prep Worksheet

Batch Number: 6095035, 6095036, 6095031, 6095032, 6095033, 6095034

Lot numbers: H6D030231

Date: 4-5-06 / 4-6-06

Analyst: AJR / MJN

	Sample Number	Front 1/2 (ml) Rinse	Back 1/2 (ml) Rinse	Cond 1 (ml)	Cond 2 (ml)	Cond 3 (ml)	Cond 4 (ml)	Rinse (ml)	Comments
1	H2H0H			990	670	870	NA	160	NA
2	H2H0N			950	350	940		180	
3	H2H0X			990	370	960		100	
4	H2H0R		AJR 4-5-06	206	NA	NA		214	
5	H2H0E	118							
6	H2H0J	105							
7	H2H0R	81							
8	H2H00	94							
9	H2H0G	NA	125			AJR 4-5-06			
10	H2H0M		132						
11	H2H0W		72						
12	H2H01		208						
13									
14									
15							AJR 4-5-06		
16									
17									
18									
19									
20									

Sample Receipt Documentation

Request for Analysis/Chain-of-Custody – RFA/COC #017 [MM-5 Train C]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

STL Knoxville Lot Number: H6D030231
STL Knoxville Project Number: 142541

NOTE: After Log-In, please give the original completed RFA/COC to Patti Carswell.

Project Identification:	**Westates Carbon CPT**
STL Knoxville Project Number:	142541
STL Contact:	Ms. Patti Carswell (865) 291-3010
STL - ACS Project Manager:	Dr. William C. Anderson (865) 291-3080

Laboratory Deliverable Turnaround Requirements:	
Analytical Due Date: (Review-Released Data)	21 Days from Lab Receipt
Data Package Due Date:	21 Days from Lab Receipt
Laboratory Destination:	STL Knoxville 5815 Middlebrook Pike Knoxville, Tennessee 37921 (865) 291-3000
Courier:	Federal Express

Analytical Testing QC Requirements:
The Legend for Project-Specific Quality Control Testing is designated in the "QC" column as follows:
"MS" = Matrix Spike, "MSD" = Matrix Spike Duplicate,
"DUP" = Duplicate, and "PDS" = Post Digestion Spike

Project Deliverables:
Report analytical results on R-02 Reports and in data packages.
Include "Field Number", "Sample Type", and "Run Number" on all R-02 Reports.

Holding Time Requirements:

Total Chromatographable Organics/Gravimetric (TCO/GRAV)	14 Days from Sample Collection to Extraction. 40 Days from Extraction to Analysis.

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require-ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-2931-R1-MM5 Front Half Composite Train C *Combine with Sample No. G-2932*	3-28-06		Petri Dish	**Particulate Filter Run #1** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Front Half of the Filter Holder and Solvent Probe Rinses sample. Soxhlet extract the Front Half Composite and reduce the volume of the extract to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for carrying out the Total Chromatograhable Organics (TCO) procedure, and the other fraction will be used to carry out the Gravimetric Analysis (GRAV) procedure.
G-2932 *Combine with Sample No.: G-2931*	3-28-06		250 mL Amber Boston Round	**Front Half of the Filter Holder and Probe Solvent Rinses, Run #1** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Particulate Filter. Follow the sample preparation instructions for the Front Half fractions.
G-2933-R1-MM5 Back Half Composite Train C *Combine with Sample No.: G-2934*	3-28-06		XAD-2 Resin Tube	**XAD-2 Resin Tube Run #1** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine the XAD-2 Resin Tube with the companion Back Half of the Filter Holder and Coil Condenser Solvent Rinses sample. Extract the Back Half Composite and concentrate to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for carrying out the Total Chromatograhable Organics (TCO) procedure, and the other fraction will be used to carry out the Gravimetric Analysis (GRAV) procedure.

Request for Analysis/Chain-of-Custody – RFA/COC #017 [MM-5 Train C]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require-ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-2934 *Combine with Sample No.: G-2933*	3-28-00		250 mL Amber Boston Round	**Back Half of the Filter Holder and Coil Condenser Solvent Rinses, Run #1** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion XAD-2 Resin Tube and follow the instructions for the Back Half fractions.
G-2935-R1-MM5 Impinger Composite Train C *Combine with Sample No.: G-2936*	3-28-00		3 X 1 Liter Amber Boston Round FW 3-30-00	**Condensate and Impinger Contents, Run #1** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Glassware Solvent Rinses of the Impinger Contents and Condensate sample. Extract the composited samples and reduce the volume of the extract to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for carrying out the Total Chromatograhable Organics (TCO) procedure, and the other fraction will be used to carry out the Gravimetric Analysis (GRAV) procedure.
G-2936 *Combine with Sample No.: G-2935*	3-28-00		250 mL Amber Boston Round	**Glassware Solvent Rinses of the Impinger Contents and Condensate, Run #1** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Condensate and Impinger Contents. Follow the instructions for the Condensate samples.
G-3043-R2-MM5 Front Half Composite Train C *Combine with Sample No. G-3044*	3-29-00		Petri Dish	**Particulate Filter Run #2** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Front Half of the Filter Holder and Solvent Probe Rinses sample. Soxhlet extract the Front Half Composite and reduce the volume of the extract to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for carrying out the Total Chromatograhable Organics (TCO) procedure, and the other fraction will be used to carry out the Gravimetric Analysis (GRAV) procedure.
G-3044 *Combine with Sample No.: G-3043*	3-29-00		250 mL Amber Boston Round	**Front Half of the Filter Holder and Probe Solvent Rinses, Run #2** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Particulate Filter. Follow the sample preparation instructions for the Front Half fractions.

Request for Analysis/Chain-of-Custody – RFA/COC #017 [MM-5 Train C]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require-ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-3045-R2-MM5 Back Half Composite Train C *Combine with Sample No.: G-3046*	3-29-06		XAD-2 Resin Tube	**XAD-2 Resin Tube Run #2** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine the XAD-2 Resin Tube with the companion Back Half of the Filter Holder and Coil Condenser Solvent Rinses sample. Extract the Back Half Composite and concentrate to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for carrying out the Total Chromatograhable Organics (TCO) procedure, and the other fraction will be used to carry out the Gravimetric Analysis (GRAV) procedure.
G-3046 *Combine with Sample No.: G-3045*	3-29-06		250 mL Amber Boston Round	**Back Half of the Filter Holder and Coil Condenser Solvent Rinses, Run #2** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion XAD-2 Resin Tube and follow the instructions for the Back Half fractions.
G-3047-R2-MM5 Impinger Composite Train C *Combine with Sample No.: G-3048*	3-29-06		3 ~~2~~ X 1 Liter Amber Boston Round Two 3-30-06	**Condensate and Impinger Contents, Run #2** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Glassware Solvent Rinses of the Impinger Contents and Condensate sample. Extract the composited samples and reduce the volume of the extract to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for carrying out the Total Chromatograhable Organics (TCO) procedure, and the other fraction will be used to carry out the Gravimetric Analysis (GRAV) procedure.
G-3048 *Combine with Sample No.: G-3047*	3-29-06		250 mL Amber Boston Round	**Glassware Solvent Rinses of the Impinger Contents and Condensate, Run #2** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Condensate and Impinger Contents. Follow the instructions for the Condensate samples.
G-3115-R3-MM5 Front Half Composite Train C *Combine with Sample No. G-3116*	3-30-06		Petri Dish	**Particulate Filter Run #3** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Front Half of the Filter Holder and Solvent Probe Rinses sample. Soxhlet extract the Front Half Composite and reduce the volume of the extract to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for carrying out the Total Chromatograhable Organics (TCO) procedure, and the other fraction will be used to carry out the Gravimetric Analysis (GRAV) procedure.

Request for Analysis/Chain-of-Custody – RFA/COC #017 [MM-5 Train C]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require-ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-3116 *Combine with Sample No.: G-3115*	3-30-06		250 mL Amber Boston Round	**Front Half of the Filter Holder and Probe Solvent Rinses, Run #3** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Particulate Filter. Follow the sample preparation instructions for the Front Half fractions.
G-3117-R3-MM5 Back Half Composite Train C *Combine with Sample No.: G-3118*	3-30-06		XAD-2 Resin Tube	**XAD-2 Resin Tube Run #3** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine the XAD-2 Resin Tube with the companion Back Half of the Filter Holder and Coil Condenser Solvent Rinses sample. Extract the Back Half Composite and concentrate to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for carrying out the Total Chromatograhable Organics (TCO) procedure, and the other fraction will be used to carry out the Gravimetric Analysis (GRAV) procedure.
G-3118 *Combine with Sample No.: G-3117*	3-30-06		250 mL Amber Boston Round	**Back Half of the Filter Holder and Coil Condenser Solvent Rinses, Run #3** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion XAD-2 Resin Tube and follow the instructions for the Back Half fractions.
G-3119-R3-MM5 Impinger Composite Train C *Combine with Sample No.: G-3120*	3-30-06		3 X 1 Liter Amber Boston Round TW 3-30-06	**Condensate and Impinger Contents, Run #3** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Glassware Solvent Rinses of the Impinger Contents and Condensate sample. Extract the composited samples and reduce the volume of the extract to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for carrying out the Total Chromatograhable Organics (TCO) procedure, and the other fraction will be used to carry out the Gravimetric Analysis (GRAV) procedure.
G-3120 *Combine with Sample No.: G-3119*	3-30-06		250 mL Amber Boston Round	**Glassware Solvent Rinses of the Impinger Contents and Condensate, Run #3** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Condensate and Impinger Contents. Follow the instructions for the Condensate samples.

Request for Analysis/Chain-of-Custody – RFA/COC #017 [MM-5 Train C]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require-ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-3121-R3-MM5 Front Half Composite BT C *Combine with Sample No. G-3122*	3-29-06	**Blank Train**	Petri Dish	**Particulate Filter Run #3** Method 0010 Blank Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Front Half of the Filter Holder and Solvent Probe Rinses sample. Soxhlet extract the Front Half Composite and reduce the volume of the extract to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for carrying out the Total Chromatograhable Organics (TCO) procedure, and the other fraction will be used to carry out the Gravimetric Analysis (GRAV) procedure.
G-3122 *Combine with Sample No.: G-3121*	3-29-06	**Blank Train**	250 mL Amber Boston Round	**Front Half of the Filter Holder and Probe Solvent Rinses, Run #3** Method 0010 Blank Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Particulate Filter. Follow the sample preparation instructions for the Front Half fractions.
G-3123-R3-MM5 Back Half Composite BT C *Combine with Sample No.: G-3124*	3-29-06	**Blank Train**	XAD-2 Resin Tube	**XAD-2 Resin Tube Run #3** Method 0010 Blank Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine the XAD-2 Resin Tube with the companion Back Half of the Filter Holder and Coil Condenser Solvent Rinses sample. Extract the Back Half Composite and concentrate to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for carrying out the Total Chromatograhable Organics (TCO) procedure, and the other fraction will be used to carry out the Gravimetric Analysis (GRAV) procedure.
G-3124 *Combine with Sample No.: G-3123*	3-29-06	**Blank Train**	250 mL Amber Boston Round	**Back Half of the Filter Holder and Coil Condenser Solvent Rinses, Run #3** Method 0010 Blank Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion XAD-2 Resin Tube and follow the instructions for the Back Half fractions.
G-3125-R3-MM5 Impinger Composite BT C *Combine with Sample No.: G-3126*	3-29-06	**Blank Train**	500 mL Amber Boston Round	**Condensate and Impinger Contents, Run #3** Method 0010 Blank Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Glassware Solvent Rinses of the Impinger Contents and Condensate sample. Extract the composited samples and reduce the volume of the extract to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for carrying out the Total Chromatograhable Organics (TCO) procedure, and the other fraction will be used to carry out the Gravimetric Analysis (GRAV) procedure.

Request for Analysis/Chain-of-Custody – RFA/COC #017 [MM-5 Train C]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require-ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-3126 *Combine with Sample No.: G-3125*	3-29-06	**Blank Train**	250 mL Amber Boston Round	**Glassware Solvent Rinses of the Impinger Contents and Condensate, Run #3** Method 0010 Blank Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Combine this sample with the companion Condensate and Impinger Contents. Follow the instructions for the Condensate samples.
G-3127-R3-MM-5 Train C XAD-2 Trip/RB	3-30-06	**Trip/ Reagent Blank**	XAD-2 Resin Tube	**XAD-2 Resin Tube Trip/Reagent Blank Run #3** Method 0010 Train C Total Chromatographable and GRAV Organic Unspeciated Mass Analysis	Soxhlet extract this sample using Methylene Chloride. Reduce the volume of the extract to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for carrying out the Total Chromatograhable Organics (TCO) procedure, and the other fraction will be used to carry out the Gravimetric Analysis (GRAV) procedure.

Request for Analysis/Chain-of-Custody – RFA/COC #017 [MM-5 Train C]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona H4D03231

Sample Receipt Log and Condition of the Samples Upon Receipt:

Please fill in the following information:	Comments (Please write "NONE" if no comment applicable)
(1) Record the identities of any samples that were listed on the RFA but were not found in the sample shipment.	N/A
(2) Record the sample shipping cooler temperature of all coolers transporting samples listed on this RFA:	N/A - 5.0°C
(3) Record any apparent sample loss/breakage.	N/A
(4) Record any unidentified samples transported with this shipment of samples:	N/A
(5) Indicate if all samples were received according to the project's required specifications (i.e. no nonconformances):	NO NONCONFORMANCES HAND DELIVERED NO CUSTODY SEALS

Custody Transfer:

Hand delivered

	Name	Company	Date/Time
Relinquished By:			
Accepted By:		STL-Knoxville	4/2/06 1625
Relinquished By:			
Accepted By:			
Relinquished By:			
Accepted By:			
Relinquished By:			
Accepted By:			

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: Focus **Project:** Westgates Carbon **Lot Number:** H6003231

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ **1a** Do not match COC ☐ **1b** Incomplete information ☐ **1c** Marking smeared ☐ **1d** Label torn ☐ **1e** No label ☐ **1f** COC not received ☐ **1g** Other:	14a- COC not relinquished - signed/date/time.
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)	✓			☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **3a** Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?		✓		☑ **4a** Not present ☐ **4b** Not intact ☐ **4c** Other:	
5. Were all of the samples listed on the COC received?	✓			☐ **5a** Samples received-not on COC ☐ **5b** Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ **6a** Leaking ☐ **6b** Broken	
7. Were VOA samples received without headspace?			✓	☐ **7a** Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ **8a** Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ **9a** Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ **10a** Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐ **13a** Leaking ☐ **13b** Other:	
14. Was COC relinquished? (Signed/Dated/Timed)		✓		☑ **14a** Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ **15a** Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ **15a** Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ **15a** Incomplete information	
18. Is the client and project name/# identified?	✓			☐ **15a** Incomplete information	
19. Was the sampler identified on the COC?			✓		

Quote #: _____ PM Instructions: _____

Sample Receiving Associate: _____ Date: 4/3/06

QA026R18.doc, 1/30/06