



908 North Temperance Ave. ▽ Clovis, CA 93611 ▽ Phone 559-275-2175 ▽ Fax 559-275-4422

Certification Number: CA1312
NELAP Certification number: 05233CA
DoD-BLAP Certificate number: ADE-1410

Data Validatable Report

December 12, 2011

Environet, Inc.
650 Iwilei Road, Suite 204
Honolulu, Hawaii 96817

Attn: Stacey Fineran

Title: Report of Data: Case 66102

Project: 1022-024 LTM Red Hill Bulk Fuel Storage Facility

Contract #: Prime contract # for DoD: N62742-08-D-1930, CTO HC21

Dear Ms. Fineran:

Samples were received October 26, 2011, in good condition. Written results for the requested analyses are provided on this December 12, 2011.

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

The MADEP-EPH and VPH analyses were subcontracted to Gulf coast Analytical Laboratories, Inc.

If you have any questions or require further information, please contact your APPL Project Manager, Diane Anderson, at your convenience. Thank you for choosing APPL, Inc.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC and DoD QSM. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

Sharon Dehmlow, Laboratory Director
APPL, Inc.

SD/rp
Enclosure
cc: File

Number of pages in this report: ____



908 North Temperance Ave. ▽ Clovis, CA 93611 ▽ Phone 559-275-2175 ▽ Fax 559-275-4422

Certification Number: CA1312
NELAP Certification number: 05233CA
DoD-BLAP Certificate number: ADE-1410

Data Validatable Report

December 12, 2011

Environet, Inc.
650 Iwilei Road, Suite 204
Honolulu, Hawaii 96817

Attn: Stacey Fineran

Title: Report of Data: Case 66102

Project: 1022-024 LTM Red Hill Bulk Fuel Storage Facility

Contract #: Prime contract # for DoD: N62742-08-D-1930, CTO HC21

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A handwritten signature in black ink, appearing to read 'Sharon Dehmlow', written in a cursive style.

Sharon Dehmlow, Laboratory Director
APPL, Inc.

SD/rp
Enclosure
cc: File

Number of pages in this report: 483

Data Validation Package
for
LTM Red Hill Bulk Fuel Storage Facility
SDG 66102

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SAMPLE RECEIPT INFORMATION

Sample receipt information

ARF: 66102

Project: LTM Red Hill Bulk Fuel Storage Facility

Sample Receipt Information:

The samples were received on October 26, 2011, at 2.5°C, 3.0°C, and 3.0°C. The samples were assigned Analytical Request Form (ARF) number 66102. The sample numbers and requested analyses were compared to the chains of custody and email communications. Four bottles arrived broken for sample ES047; the client was notified. No other exception was encountered.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
ES046	AY49333	WATER	10/24/2011	10/26/2011
ES047	AY49334	WATER	10/24/2011	10/26/2011
ES048	AY49335	WATER	10/24/2011	10/26/2011
ES049	AY49336	WATER	10/24/2011	10/26/2011

Samples and blanks were screened for J-value responses between the detection limit (DL) and limit of quantitation (LOQ).

APPL's laboratory control limits generated in house statistically do not meet the control limits listed in DoD QSM 4.2 for all analytes. Laboratory control spike recoveries for this project meet all control limits listed in the DoD QSM 4.2 except where noted. A copy of our in house generated control limits is available upon request. In addition, a copy of our LOQ control limits, established using 7 data points, are also available upon request.

Only the portion of the injection log relative to these samples is included. A full sequence log is available upon request.

Measurement uncertainty can be reported upon request.

The MADEP-EPH and VPH analyses were subcontracted to Gulf coast Analytical Laboratories, Inc. Their report is included.

CASE NARRATIVE

EPA Method 8015B

Total Petroleum Hydrocarbons – Diesel

Sample Preparation:

The water samples were extracted according to EPA method 3510C. The samples were extracted within holding time.

Sample Analysis Information:

The samples were analyzed according to the method using a Hewlett Packard Gas Chromatograph with a flame ionization detector.

Quality Control/Assurance

Calibrations:

Initial and continuing calibrations were performed according to the method. All calibration criteria were met.

Blanks:

No target analyte was detected above the detection limit in the method blank.

Spikes:

A Laboratory Control Spike (LCS) was used for quality assurance. All acceptance criteria were met.

Sample ES047 was designated by the client for MS/MSD analysis. Diesel fuel recovers below the 61% lower recovery limit in the MS at 33.5% and in the MSD at 30.0%.

Surrogates:

The surrogate recoveries are summarized on the form 2 & 8. All surrogate recoveries were within control limits.

Summary:

No other problem was encountered

EPA Method 8270D SIM

Polynuclear Aromatic Hydrocarbons

Sample Preparation:

The water samples were extracted according to EPA method 3510C. All holding times were met.

Sample Analysis Information:

The samples were analyzed according to EPA method 8270D using a Hewlett Packard Gas Chromatograph with a mass spectrometer detector in selective ion monitoring mode.

Quality Control/Assurance

Calibrations:

Initial and continuing calibrations were performed according to the method. All calibration criteria were met.

Blanks:

No target analyte was detected above the detection limits in the method blank.

Spikes:

A Laboratory Control Spike (LCS) was used for quality assurance. All spike criteria were met.

Sample ES047 was designated by the client for MS/MSD analysis. For the MSD, Acenaphthene recovered below the 45% lower control limit at 42.0%, Acenaphthylene below the 50% lower control limit at 45.6%, and Anthracene below the 55% lower control limit at 50.5%. The RPD for Naphthalene exceeded the 25% limit at 36.4%. All other recoveries met acceptance criteria.

Surrogates

Surrogate recoveries are summarized on the forms 2&8. All surrogate recoveries were within control limits.

Tuning:

The instrument was tuned using DFTPP. All method criteria were met.

Internal Standards

The internal standard area counts were compared to the mid-point of the initial calibration according to method 8270. All method criteria were met.

Summary:

No other problem was encountered.

EPA Method 8260B

Volatile Organic Analysis

Sample Preparation:

The water samples were purged according to EPA method 5030B. All holding times were met.

Sample Analysis Information:

The samples were analyzed according to the method using a Hewlett Packard Gas Chromatograph with a mass spectrometer detector. All samples were listed as non-preserved; they were injected within the seven day holding time. All holding times were met. Manual integrations were performed in accordance to APPL's SOP. All points of the gasoline curve, the gasoline second-source, and the gasoline LCS required manual integrations because the integration did not follow the baseline. Chromatograms of prior to and after manual integrations are enclosed.

Quality Control/Assurance:

Calibrations:

Initial and continuing calibrations were performed according to the method. All system performance check compounds and calibration check compounds met DoD acceptance criteria. All calibration criteria were met except for acetone in continuing calibration 1030C27W.D; acetone recovered above the 20% Drift limit at 28% Drift. Acetone recovered within the control limits of the following LCS and was not detected in any sample.

Blanks:

No target analyte was detected above the detection limits in the method blanks.

Spikes:

A Laboratory Control Spike (LCS) was used for quality assurance. A second-source standard was used for the LCS. All LCS recoveries were acceptable.

Sample ES047 was designated by the client for MS/MSD analysis. All spike criteria were met except for gasoline, which recovered above the 125% upper control limit at 126% in the MSD.

Surrogates:

Surrogate recoveries are summarized on Form 2 & 8. All surrogate recoveries were within the acceptance limits.

Tuning:

The instrument was tuned using BFB. All method criteria were met.

Internal Standards:

The internal standard area counts were compared to the mid-point of the initial calibration according to method 8260. All method criteria were met.

Summary:

No other problem was encountered. The data generated are acceptable.

EPA Method 6020

Dissolved Lead

Digestion Information:

The water samples were digested according to EPA methods 3015. All holding times were met.

Analysis Information:

Samples:

The samples were analyzed for dissolved lead according to EPA method 6020 using an Agilent 7500CX ICP-MS.

Calibrations:

The initial and continuing calibrations were analyzed according to the DoD QSM. The initial calibration verification is prepared from a second source standard.

Blanks:

No metal was detected at or above one-half the LOQ in the method blank.

Spikes:

Laboratory Control Spike (LCS), matrix spikes (MS/MSD), post digestion spike (PDS), and serial dilution were used for quality assurance. All LCS recoveries were within the acceptance limits.

Sample ES047 was designated by the client for MS/MSD analysis. All acceptance criteria were met in the MS/MSD, PDS, and DT.

Summary:

No analytical exception is noted.

Abbreviations and Flags

FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
M1	Manual integration: integration does not follow baseline
M2	Manual integration: non-target peak interference
M3	Manual integration: to split a peak that was integrated as one peak by the computer
M4	Manual integration: to integrate a split peak
M5	Manual integration: the whole peak or part of the peak was not integrated
M6	Manual integration: computer integrated wrong peak
M7	Manual integration: other - explain
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, i.e. asphaltene, waste oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, i.e. asphaltene, waste oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel.
Y	Percent difference between primary and confirmation column > 40%

**CHAIN OF CUSTODY,
ARF, CRF, AND
CLIENT COMMUNICATION**

APPL - Analysis Request Form

66102



Client: Environet, Inc.
 Address: 650 Iwilei Rd, #204
Honolulu, HI 96817
 Attn: Stacy Fineran
 Phone: 808-833-2225 Fax: 808-833-2231
 Job: RED HILL/1022-024
 PO #: 1022-015
 Chain of Custody (Y/N): Y # 35457
 RAD Screen (Y/N): Y pH (Y/N): Y
 Turn Around Type: 2 WEEKS

Received by: TBV
 Date Received: 10/26/11 Time: 10:00
 Delivered by: FED EX
 Shuttle Custody Seals (Y/N): N Time Zone: HAST
 Chest Temp(s): SEE CRF 2.5-3.0°C
 Color: VOA,M-PURPINK,Q-ORYE
 Samples Chilled until Placed in Refrig/Freezer: Y
 Project Manager: Cynthia Clark
 QC Report Type: DVP4/ADRDOD/HI *JK*
 Due Date: 11/09/11

Comments:

14 day TAT for Form 1s & 30 day TAT for full package. *VDupra@environetinc.com*
 1 pdf on CD or FTP (no hard copy), NO hard copy to LDC per Stacy 2-24-11
 Guidance: DOD QSM, EDD: Exce & ADR
 DoD Forms, J flag to DL, U flag at LOD *JK*
 EDD ADR A1/A3 (ADR 8.3a unchecked) to *VDupra@* & *sfineran@environetinc.com*
 metals 6020: report Lead with 0.5ug/L RL
 TPH-Diesel only; VOCs: include gasoline by 8260B
 MA-EPH subcontracted to Gulf Coast Analytical.

<u>Sample Distribution:</u>	<u>Charges:</u>	<u>Invoice To:</u>
GC: 3-\$SIMHC12W, 3-\$TPETD2		
Extractions: 3- SEP004S, 3- SEP011		same
VOA: 4-\$86RHBF		
Metals: 3-\$602D(Pb)		
Other: 3- M3015, 3-SUB		

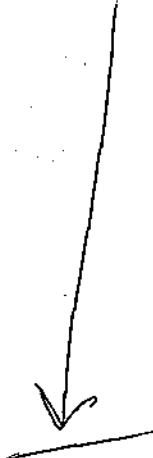
Client ID	APPL ID	Sampled	Analyses Requested
1. ES046	AY49333W 	10/24/11 09:55	\$602D(Pb), \$86RHBF, \$SIMHC12W, \$TPETD2, SUB -- UN-PRESERVED VOA VIALS
2. ES047	MS/MSO,LTDVOL AY49334W 	10/24/11 08:30	\$602D(Pb), \$86RHBF, \$SIMHC12W, \$TPETD2, SUB -- UN-PRESERVED VOA VIALS,LTD VOL on amber
3. ES048	AY49335W 	10/24/11 07:00	\$86RHBF -- UN-PRESERVED VOA VIALS
4. ES049	AY49336W 	10/24/11 14:35	\$602D(Pb), \$86RHBF, \$SIMHC12W, \$TPETD2, SUB -- UN-PRESERVED VOA VIALS

APPL Sample Receipt Form

ARF# 66102

Sample	Container Type	Count	pH
AY49333	6 PL 500mL - HNO3	1	1.7
	13 VOAs - HCL	3	na
	15 VOAs - NP	4	na
	17 Amber Liter	3	na
	26 Other	2	1.7
AY49334	6 PL 500mL - HNO3	4	1.7
	13 VOAs - HCL	12	na
	15 VOAs - NP	16	na
	17 Amber Liter	9	na
	26 Other	7	1.7
AY49335	15 VOAs - NP	1	na
AY49336	6 PL 500mL - HNO3	1	1.7
	13 VOAs - HCL	3	na
	15 VOAs - NP	4	na
	17 Amber Liter	3	na
	26 Other	2	1.7

Sample Container Type Count pH
Other - 1 Liter amber
HCL





APPL, Inc.
908 N Temperance Ave
Clovis, CA 93611

CHAIN OF CUSTODY RECORD

Phone: (559) 275-2175
Fax: (559) 275-4422

C.O.C. 35457

Report to: PLEASE PRINT Company Name: <u>Environet</u> Phone: <u>808 833-2225</u> Address: <u>650 Iwilei Rd. #204</u> <u>Honolulu, HI</u> Attn: <u>Stacey Fineran</u>	Invoice to: PLEASE PRINT Company Name: <u>Environet</u> Phone: <u>808-833-2225</u> Address: <u>650 Iwilei Rd. #204</u> <u>Honolulu, HI</u> Attn: <u>A.P. Trisha Yosuda</u>
---	--

Project Name/Number	Sampler (Print)	Analysis Requested/Method Number				Date Shipped:
		Matrix				
Purchase Order Number	Sampler (Signature)	No. of Containers	Aq	Sed.	Soil	Carrier:
Sample Identification	Location					Date Collected	Time Collected	Comments:
Red Hill 1022-024	Stacey Fineran					10/25/2011
ES046	RHSF	13	X			
ES047 MSMSD	}	52	X			
ES048		1	X			
ES049	RHSF	13	X			

Date Shipped: 10/25/2011
 Carrier: Fed Ex press
 Waybill No.:
 Comments:

*HCl was ^{not} rinsed out of VOA's

Shuttle Temperature:	Turnaround Requested: MUST CHECK ONE <input checked="" type="checkbox"/> Standard (2-3 week) <input type="checkbox"/> One week <input type="checkbox"/> 24-48 hour	Sample Disposal: <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Disposal by Lab (30-day retention)
Relinquished by sampler:	Date: <u>10/25</u> Time: <u>1400</u> Received by: <u>Fed Ex</u>	Relinquished by: _____ Date: _____ Time: _____ Received by: _____
Relinquished by:	Date: _____ Time: _____ Received by: _____	Relinquished by: _____ Date: <u>10/26/11</u> Time: <u>1000</u> Received at lab by: <u>[Signature]</u>

COOLER RECEIPT FORM

1) Project: RED HILL / 1022-024 Date Received: 10/26/11

2) Coolers: Number of Coolers: 3

3) YES NO Were coolers and samples screened for radioactivity?

4) YES NO Were custody seals on outside of cooler? How many? 3 Date on seal? 10/26/11

5) Name on seal? WASTE

6) YES NO NA Were custody seals unbroken and intact at the time of arrival?

7) YES NO Did the cooler come with a shipping slip (air bill, etc.)? Carrier name: Fed Ex

8) Shipping slip numbers: 1) 876846959176 2) 3

9) YES NO NA Was the shipping slip scanned into the database?

10) YES NO NA If cooler belongs to APPL, has it been logged into the ice chest database?

11) Describe type of packing in cooler (bubble wrap, popcorn, type of ice, etc.): bubble bag in wet ice

12) YES NO NA For hand delivered samples was sufficient ice present to start the cooling process?

13) YES NO Was a temperature blank included in the cooler?

14) Serial number of certified NIST thermometer used: A37267 Correction factor: 0

15) Cooler temp(s): 1) 2.5°C 2) 3.0°C 3) 3.0°C 4) 5 5) 6 6) 7 7) 8

Chain of custody:

16) YES NO Was a chain of custody received?

17) YES NO Were the custody papers signed in the appropriate places?

18) YES NO Was the project identifiable from custody papers?

19) YES NO Did the chain of custody include date and time of sampling?

20) YES NO Is location where sample was taken listed on the chain of custody?

Sample Labels:

21) YES NO Were container labels in good condition?

22) YES NO Was the client ID on the label?

23) YES NO Was the date of sampling on the label?

24) YES NO Was the time of sampling on the label?

25) YES NO Did all container labels agree with custody papers?

Sample Containers:

26) YES NO Were all containers sealed in separate bags?

27) YES NO Did all containers arrive unbroken?

28) YES NO Was there any leakage from samples?

29) YES NO Were any of the lids cracked or broken?

30) YES NO Were correct containers used for the tests indicated?

31) YES NO Was a sufficient amount of sample sent for tests indicated?

32) YES NO NA Were bubbles present in volatile samples? If yes, the following were received with air bubbles:
Larger than a pea: 12 10/26/11

Smaller than a pea: AY49333W03 AY49334W00 AY49334W26-W29 AY49335W01

Preservation & Hold time:

33) YES NO NA Was a sufficient amount of holding time remaining to analyze the samples?

34) YES NO NA Do the sample containers contain the same preservative as what is stated on the COC?

35) YES NO NA Was the pH taken of all non-VOA preserved samples and written on the sample container?

36) YES NO NA Was the pH of acid preserved non-VOA samples < 2 & sodium hydroxide preserved samples > 12?

37) YES NO NA Unpreserved VOA Vials received?

38) YES NO NA Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?

Lab notified if pH was not adequate:

Deficiencies: Received 4 Amber liter broken, 9 left for Sample E5049 imp/nd

Signature of personnel receiving samples: Yang Second reviewer: [Signature]

Signature of project manager notified: Renee Date and Time of notification: 10-26-11

Name of client notified: _____ Date and Time of notification: _____

Information given to client: _____ by whom (Initials): _____

**EPA 8015 Modified
Total Petroleum Hydrocarbons**

**EPA 8015 Modified
Total Petroleum Hydrocarbons
QC Summary**

Method Blank
TPH Diesel Water

Blank Name/QCG: **111031W-49334 - 160886**
Batch ID: #TPETD-111031A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	DIESEL FUEL	80.8 U	150	80.8	40.4	ug/L	10/31/11	11/06/11
BLANK	SURROGATE: OCTACOSANE (S)	71.2	28-142			%	10/31/11	11/06/11
BLANK	SURROGATE: ORTHO-TERPHEN	60.5	57-132			%	10/31/11	11/06/11

Quant Method: TPH1028.M
Run #: 1106005
Instrument: Apollo
Sequence: 111106
Initials: LA

GC SC-Blank-REG MDLs
Printed: 11/30/11 11:27:27 AM

Surrogate Recovery

Lab Name: APPL, Inc.
 Case No: 66102
 Matrix: WATER

SDG No: 66102
 Date Analyzed: 11/06/11
 Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: OCTACOSANE (S)			SURROGATE: ORTHO-TERPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
111031A-BLK	Blank	28-142	71.2		57-132	60.5	
AY49333	ES046	28-142	97.0		57-132	69.1	
AY49334-MS	Matrix Spike	28-142	87.3		57-132	72.0	
AY49334-MSD	Matrix SpikeD	28-142	83.3		57-132	59.5	
AY49334	ES047	28-142	107		57-132	72.2	
AY49336	ES049	28-142	106		57-132	63.4	
111031A-LCS	Lab Control Spike	28-142	83.3		57-132	98.0	

Comments: Batch: #TPETD-111031A

Laboratory Control Spike Recovery

TPH Diesel Water

APPL ID: 111031W-49334 LCS - 160886
 Batch ID: #TPETD-111031A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
DIESEL FUEL	2000	1520	76.0	61-143
SURROGATE: OCTACOSANE (S)	150	125	83.3	28-142
SURROGATE: ORTHO-TERPHENYL (S)	150	147	98.0	57-132

Comments: _____

<u>Primary</u>	<u>SPK</u>
Quant Method :	TPH8S15.M
Extraction Date :	10/31/11
Analysis Date :	11/29/11
Instrument :	Apollo
Run :	1129017
Initials :	LA

Printed: 11/30/11 11:27:20 AM
APPL Standard LCS

Matrix Spike Recoveries

TPH Diesel Water

APPL ID: 111031W-49334 MS - 160886

Batch ID: #TPETD-111031A

Sample ID: AY49334

Client ID: ES047

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
DIESEL FUEL	2000	730	1400	1330	33.5 #	30.0 #	61-143	5.1	30
SURROGATE: OCTACOSANE (S)	150	NA	131	125	87.3	83.3	28-142		
SURROGATE: ORTHO-TERPHENYL (S)	150	NA	108	89.3	72.0	59.5	57-132		

= Recovery is outside QC limits.

Comments:

Primary	SPK	DUP
Quant Method :	TPH1028.M	TPH1028.M
Extraction Date :	10/31/11	10/31/11
Analysis Date :	11/06/11	11/06/11
Instrument :	Apollo	Apollo
Run :	1106014	1106015
Initials :	LA	

Printed: 11/30/11 11:27:17 AM

APPL MSD SCI

EPA 8015B-e

Form 4

Blank Summary

Lab Name: APPL, Inc.
Case No: 66102
Matrix: WATER
Blank ID: 111031A-BLK

SDG No: 66102
Date Analyzed: 11/06/11
Instrument: Apollo
Time Analyzed: 1722

APPL ID.	Client Sample No.	File ID.	Date Analyzed
111031A-BLK	Blank	1106005	11/06/11 1722
AY49333	ES046	1106013	11/06/11 2030
111031A-MS	Matrix Spike	1106014	11/06/11 2053
111031A-MSD	Matrix SpikeD	1106015	11/06/11 2117
AY49334	ES047	1106016	11/06/11 2140
AY49336	ES049	1106019	11/06/11 2250
111031A-LCS	Lab Control Spike	1129017	11/29/11 1845

Comments: Batch: #TPETD-111031A

**EPA 8015 Modified
Total Petroleum Hydrocarbons
Sample Data**

TPH Diesel Water

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

Attn: Stacy Fineran
Project: RED HILL/1022-024
Sample ID: ES046
Sample Collection Date: 10/24/11

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 66102
APPL ID: AY49333
QCG: #TPETD-111031A-160886

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-	DIESEL FUEL	750 ++	150	80.8	40.4	ug/L	10/31/11	11/06/11
EPA 8015B-	SURROGATE: OCTACOSANE (S)	97.0	28-142			%	10/31/11	11/06/11
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (S)	69.1	57-132			%	10/31/11	11/06/11

++(T7) The analyst has noted that the chromatogram of this sample closely resembles the boiling point hydrocarbon profile consistent with diesel fuel.

Quant Method: TPH1028.M
Run #: 1106013
Instrument: Apollo
Sequence: 111106
Dilution Factor: 1
Initials: LA

Printed: 11/30/11 11:27:24 AM
APPL-F1-SC-NoMC-REG MDLs

Data File : G:\APOLLO\DATA\111106\1106013.D Vial: 13
 Acq On : 11-6-11 20:30:17 Operator: LAC
 Sample : AY49333W09 5/1030 Inst : Apollo
 Misc : Water Multiplr: 4.85
 IntFile : events.e
 Quant Time: Nov 7 9:50 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

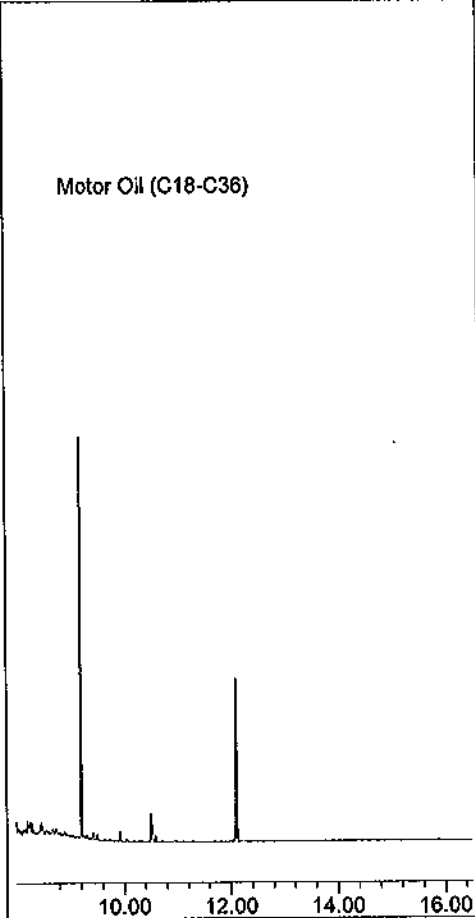
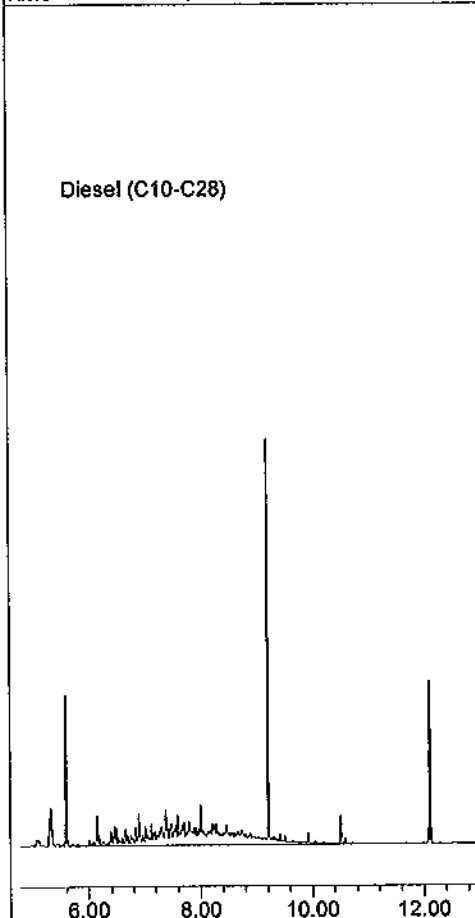
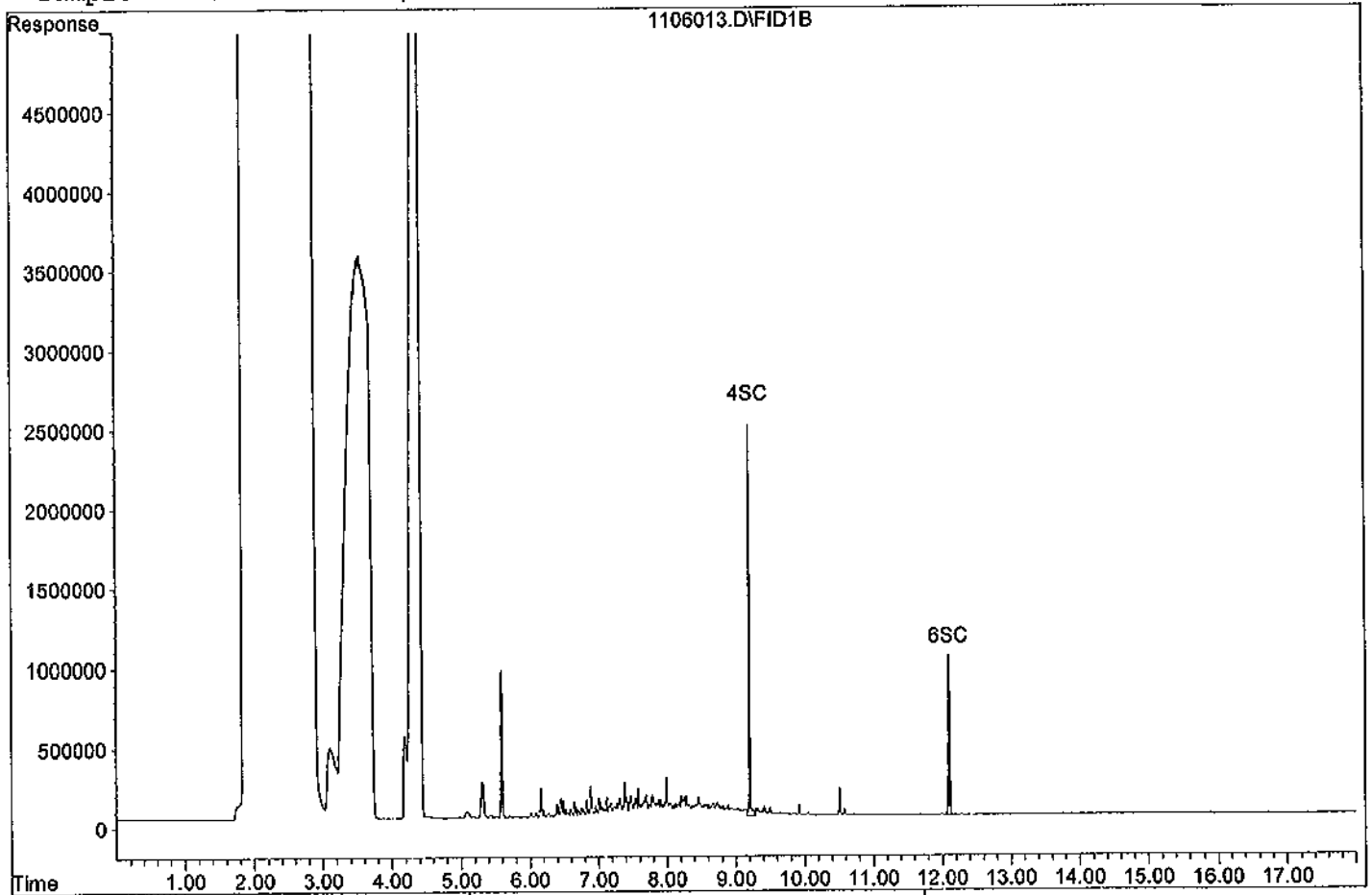
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.21	18082118	100.664 ppb
Surrogate Spike 145.631		Recovery =	69.12%
6) SC Octacosane(S)	12.10	13534363	141.185 ppb
Surrogate Spike 145.631		Recovery =	96.95%
Target Compounds			
1) HATM Diesel (C10-C28)	8.86	130505484	752.499 ppb T7 LAC 11/30/11

Quantitation Report

Data File: G:\APOLLO\DATA\111106\1106013.D

Sample : AY49333W09 5/1030



TPH Diesel Water

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacy Fineran
Project: RED HILL/1022-024

ARF: 66102

Sample ID: ES047

APPL ID: AY49334

Sample Collection Date: 10/24/11

QCG: #TPETD-111031A-160886

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-	DIESEL FUEL	730 ++	150	80.8	40.4	ug/L	10/31/11	11/06/11
EPA 8015B-	SURROGATE: OCTACOSANE (S)	107	28-142			%	10/31/11	11/06/11
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (S)	72.2	57-132			%	10/31/11	11/06/11

++(T7) The analyst has noted that the chromatogram of this sample closely resembles the boiling point hydrocarbon profile consistent with diesel fuel.

Quant Method: TPH1028.M
Run #: 1108016
Instrument: Apollo
Sequence: 111106
Dilution Factor: 1
Initials: LA

Printed: 11/30/11 11:27:24 AM
APPL-F1-SC-NoMC-REG MDLs

Data File : G:\APOLLO\DATA\111106\1106016.D Vial: 16
 Acq On : 11-6-11 21:40:27 Operator: LAC
 Sample : AY49334W32 5/1030 Inst : Apollo
 Misc : Water Multiplr: 4.85
 IntFile : events.e
 Quant Time: Nov 7 9:50 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

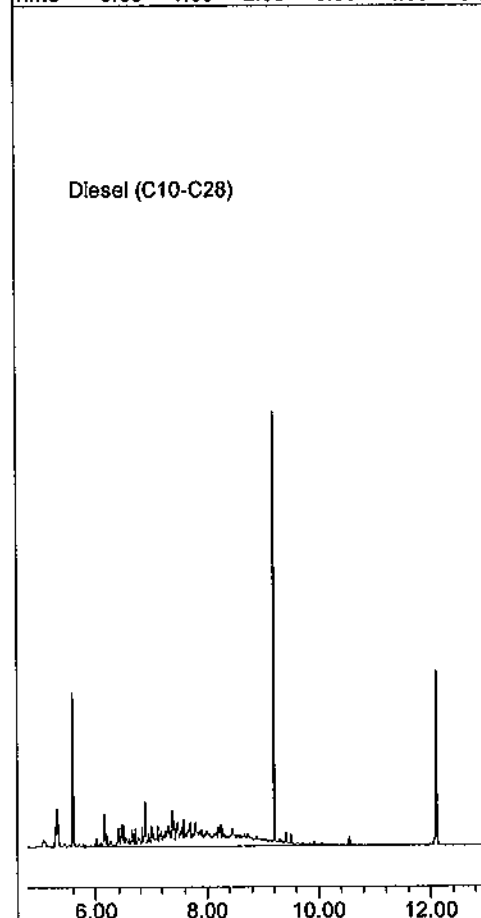
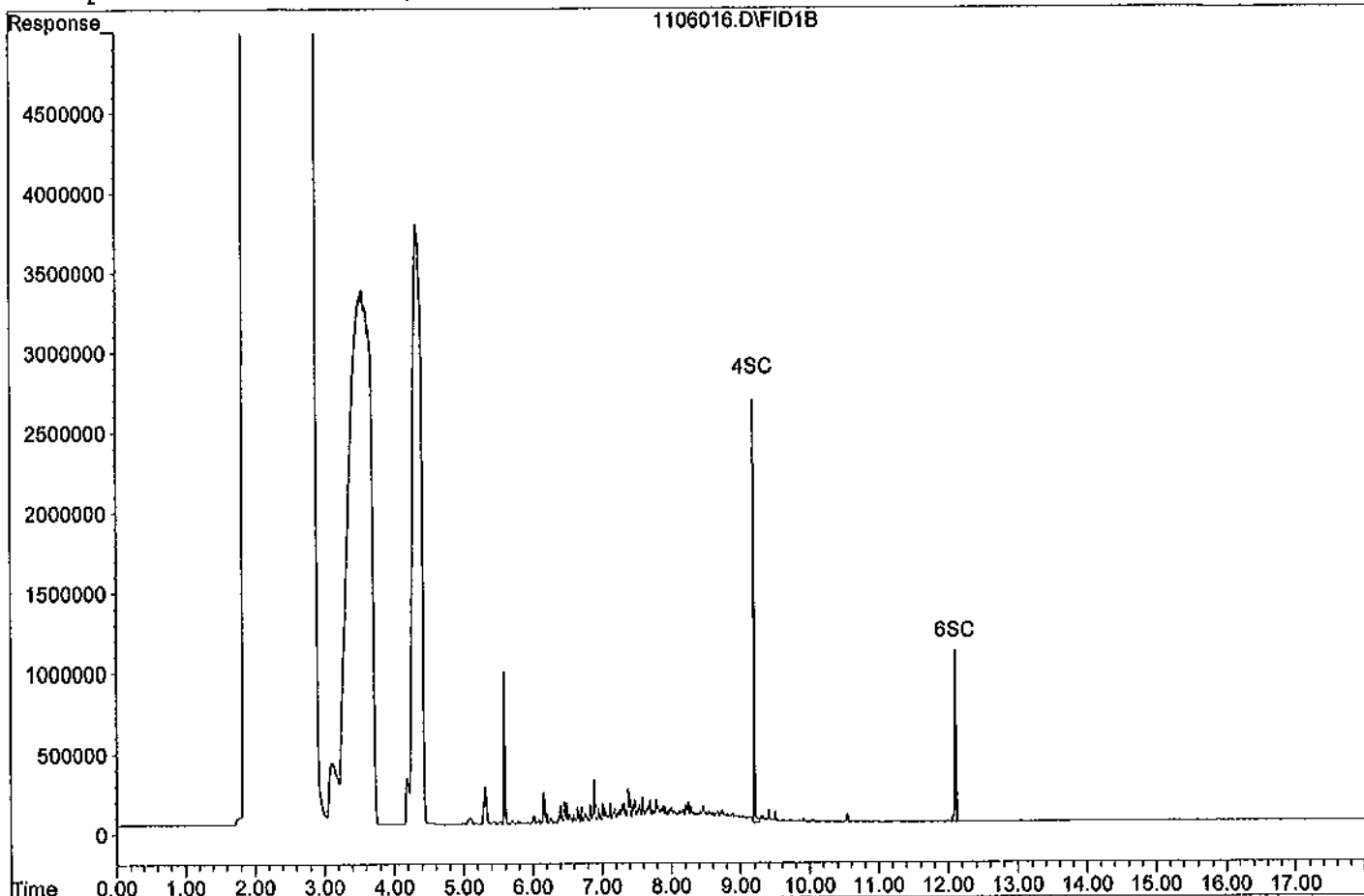
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.21	18885119	105.134 ppb
Surrogate Spike 145.631		Recovery =	72.19%
6) SC Octacosane(S)	12.10	14910092	155.536 ppb
Surrogate Spike 145.631		Recovery =	106.80%
Target Compounds			
1) HATM Diesel (C10-C28)	8.86	125913483	726.021 ppb T7 etc 11/30/11

Quantitation Report

Data File: G:\APOLLO\DATA\111106\1106016.D
Sample : AY49334W32 5/1030



TPH Diesel Water

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

Attn: Stacy Fineran
Project: RED HILL/1022-024

Sample ID: ES049
Sample Collection Date: 10/24/11

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 66102
APPL ID: AY49336
QCG: #TPETD-111031A-160886

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-	DIESEL FUEL	80.8 U	150	80.8	40.4	ug/L	10/31/11	11/06/11
EPA 8015B-	SURROGATE: OCTACOSANE (S)	106	28-142			%	10/31/11	11/06/11
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (S)	63.4	57-132			%	10/31/11	11/06/11

Quant Method: TPH1028.M
Run #: 1106019
Instrument: Apollo
Sequence: 111106
Dilution Factor: 1
Initials: LA

Printed: 11/30/11 11:27:24 AM
APPL-F1-SC-NoMC-REG MDLs

Data File : G:\APOLLO\DATA\111106\1106019.D Vial: 19
 Acq On : 11-6-11 22:50:22 Operator: LAC
 Sample : AY49336W09 5/1050 Inst : Apollo
 Misc : Water Multiplr: 4.76
 IntFile : events.e
 Quant Time: Nov 7 10:06 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

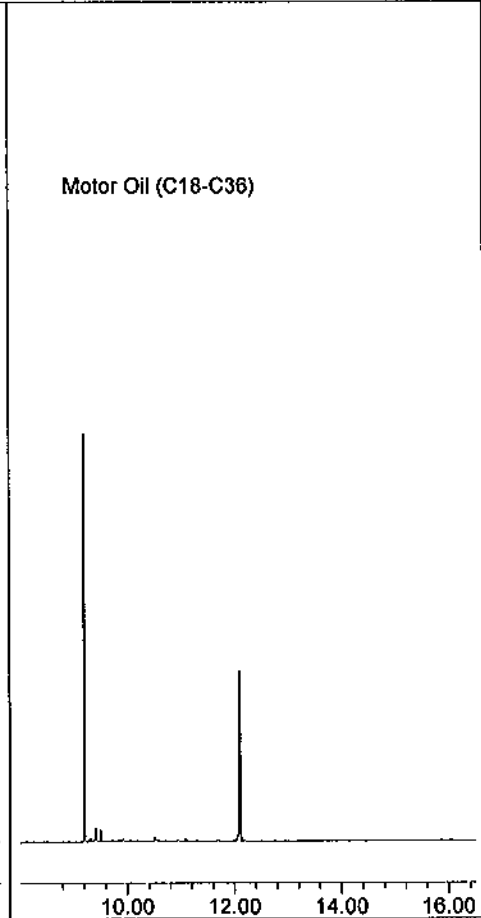
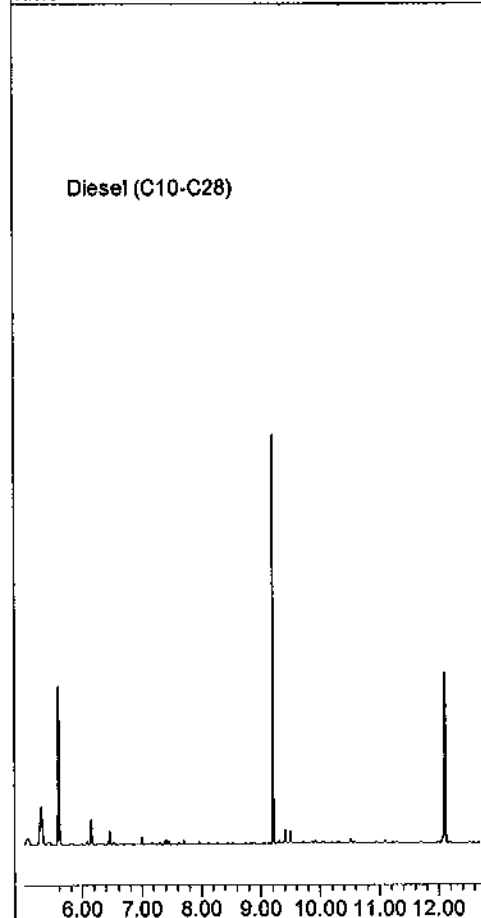
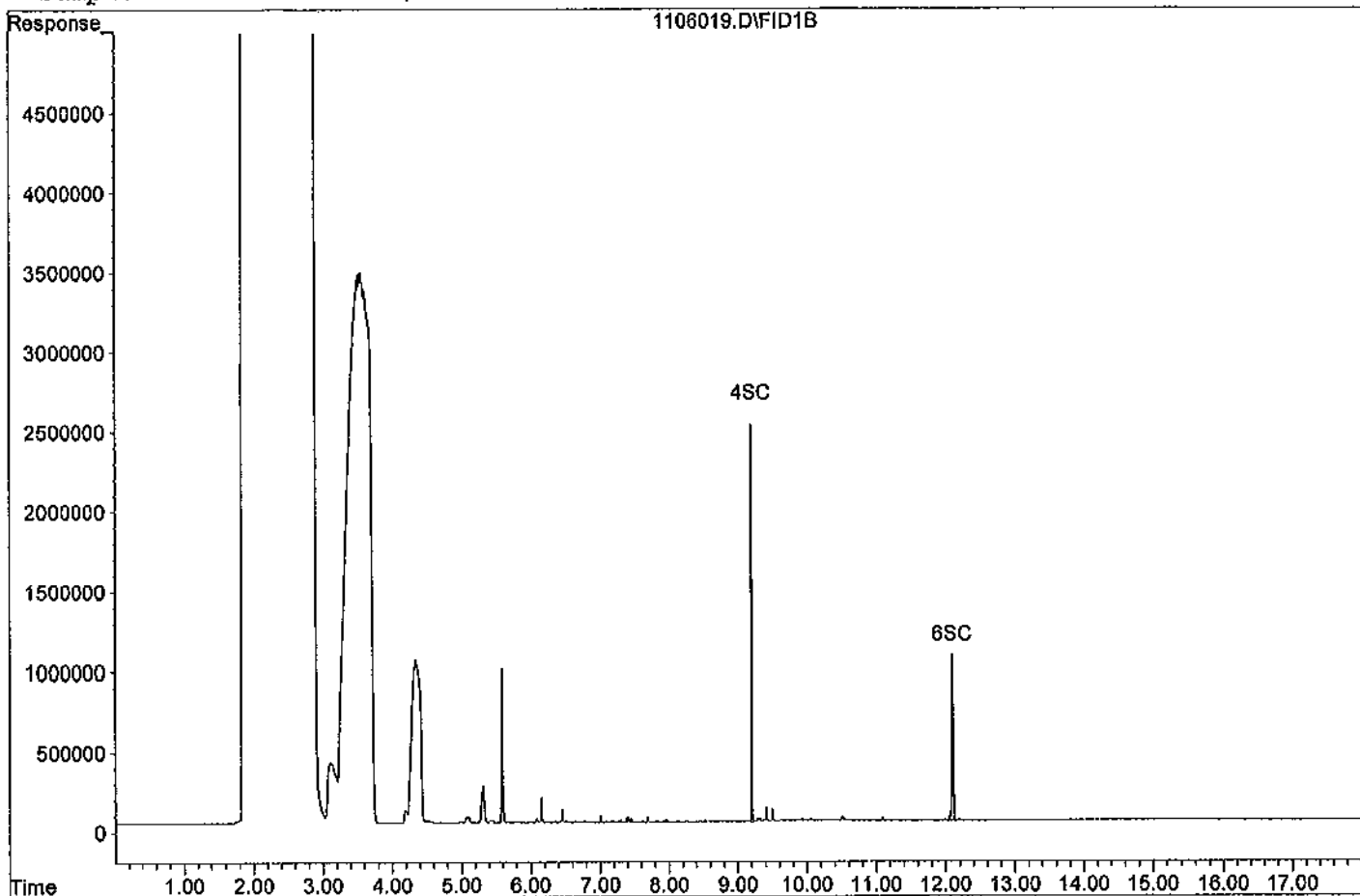
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.20	16586813	90.580 ppb
Surrogate Spike 142.857		Recovery =	63.41%
6) SC Octacosane(S)	12.10	14736715	150.799 ppb
Surrogate Spike 142.857		Recovery =	105.56%

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\111106\1106019.D
Sample : AY49336W09 5/1050



**EPA 8015 Modified
Total Petroleum Hydrocarbons
Calibration Data**

TPH Extractables
TPH1028

Form 6
Initial Calibration

Lab Name: APPL, Inc.

SDG No: 66102

Case No: _____

Initial Cal. Date: 10/28/11

Matrix: _____

Instrument: Apollo

Initials: LAC

1028016.D 1028017.D 1028018.D 1028019.D 1028020.D 1028021.D

	Compound	1	2	3	4	5	6					Avg	%RSD	
1	HATM Diesel (C10-C28)	442719	420460	472596	423976	425504	340418					420946	10	HATM
2	HBTM Motor Oil (C18-C36)	178423	183716	183814	180648	189866	171166					181272	3.5	HBTM
3	SA Not Used(S)	492314	497998	549709	499503	505363	680489					537563	14	SA
4	SC Ortho-Terphenyl(S)		432362	446201	461765	440594	399046					435993	5.3	SC
5	SA Not Used2(S)	246114	255075	272188	252864	246503	213571					247719	7.8	SA
6	SC Octacosane(S)		229602	230817	244618	233443	224899					232676	3.2	SC
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1.2501454

Data File : G:\APOLLO\DATA\111028\1028003.D Vial: 3
 Acq On : 10-28-11 9:47:18 Operator: LAC
 Sample : DIESEL 10/1000 10/28/11 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

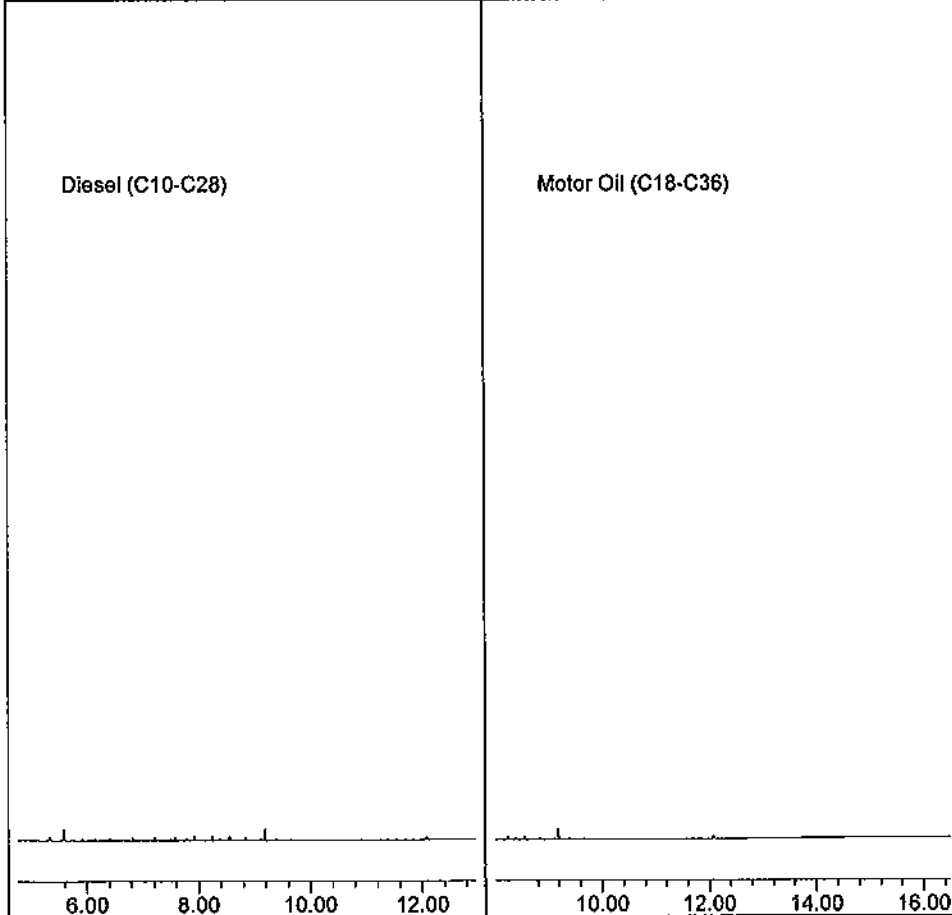
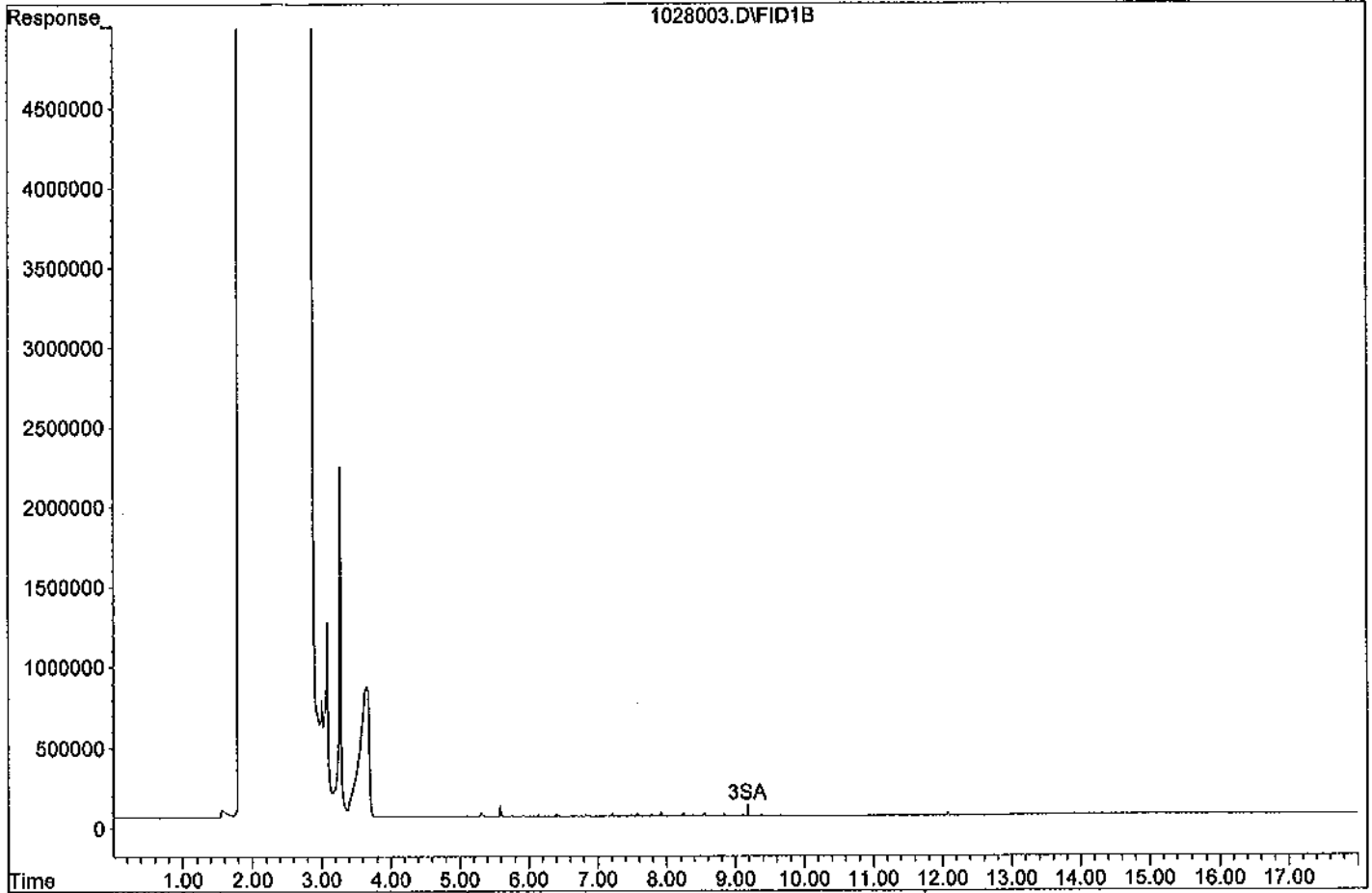
Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Not Used(S)	9.18	492314	0.777 ppb
Surrogate Spike 30.000	Recovery	=	2.59%
Target Compounds			
1) HATM Diesel (C10-C28)	8.86	8854372	10.215 ppb

Data File: G:\APOLLO\DATA\111028\1028003.D
Sample : DIESEL 10/1000 10/28/11



Data File : G:\APOLLO\DATA\111028\1028004.D Vial: 4
 Acq On : 10-28-11 10:11:19 Operator: LAC
 Sample : DIESEL 100/1000 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

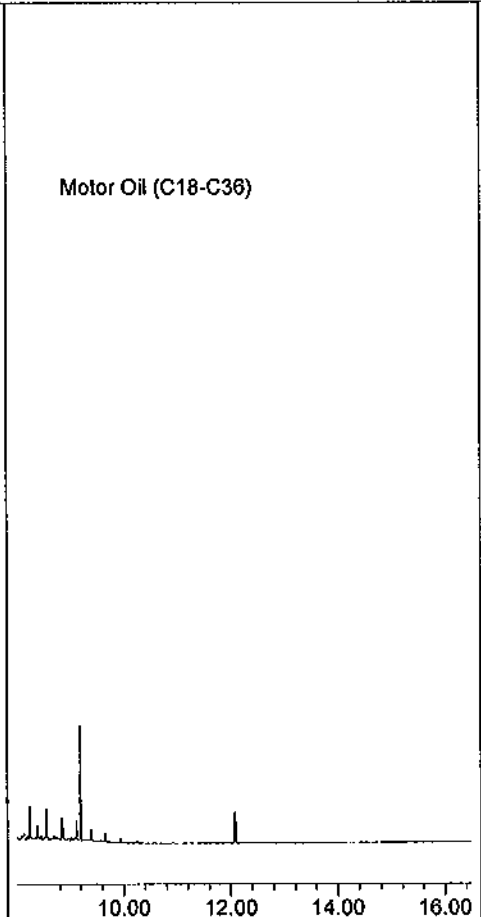
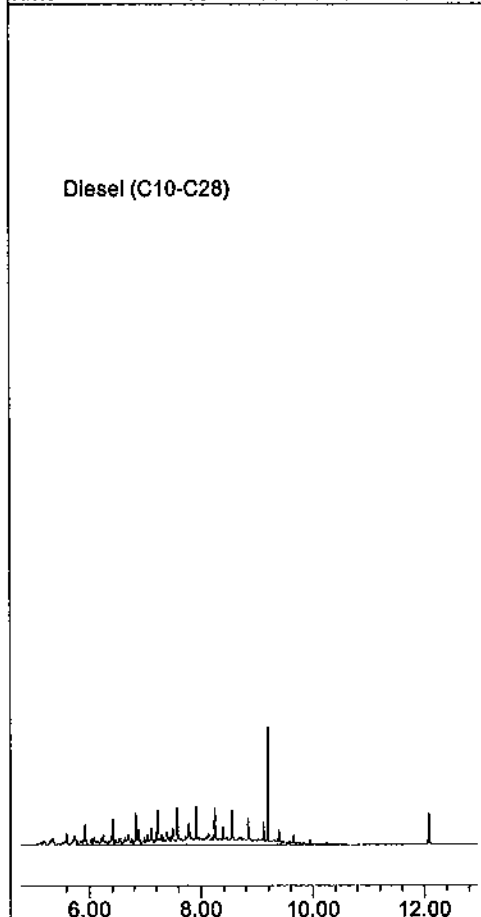
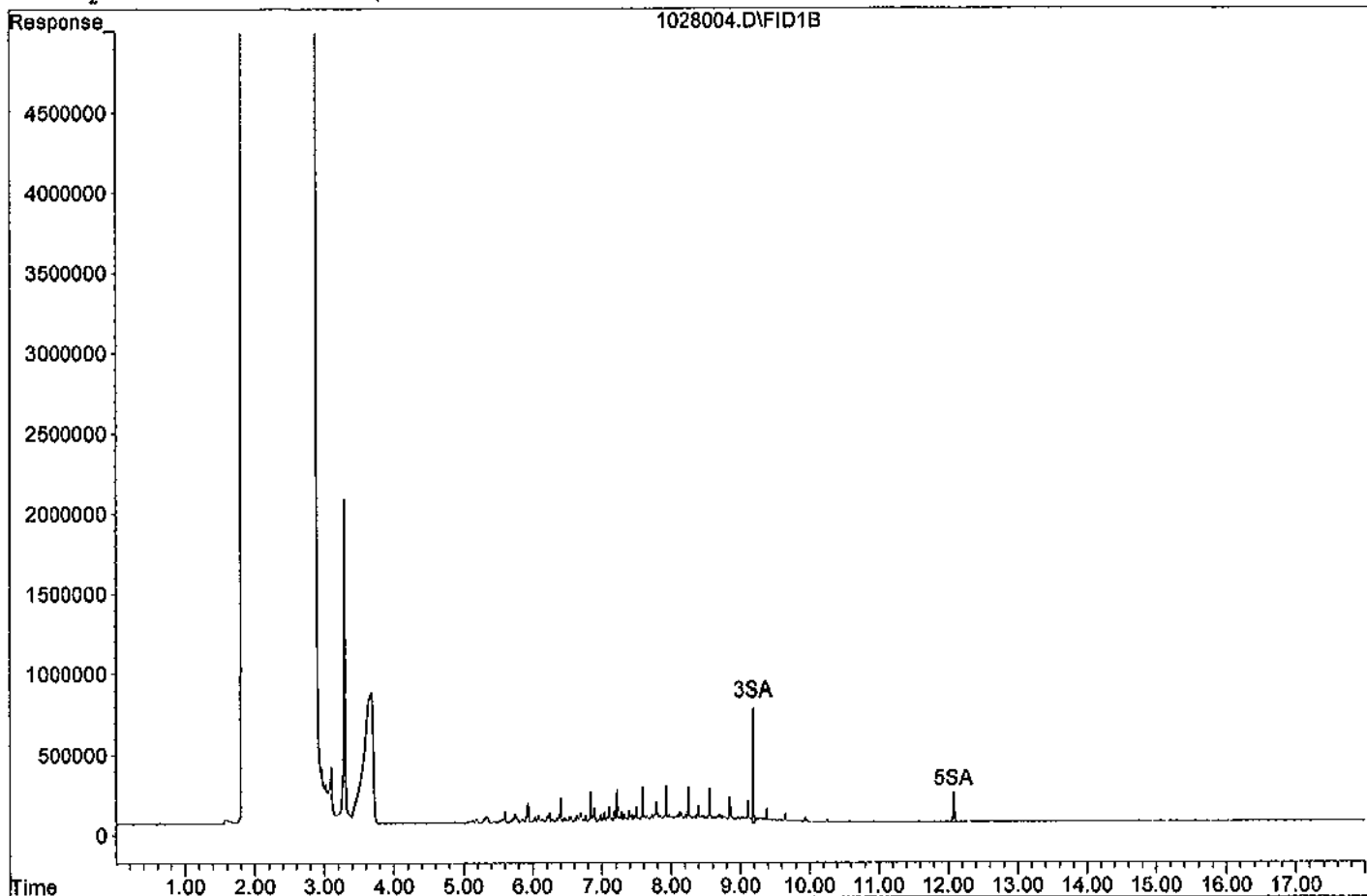
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Not Used(S)	9.19	4979981	7.855 ppb
Surrogate Spike 30.000		Recovery =	26.18%
5) SA Not Used2(S)	12.08	2550752	9.065 ppb
Surrogate Spike 30.000		Recovery =	30.22%
Target Compounds			
1) HATM Diesel (C10-C28)	8.86	84092037	97.013 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\111028\1028004.D

Sample : DIESEL 100/1000



Data File : G:\APOLLO\DATA\111028\1028005.D Vial: 5
 Acq On : 10-28-11 10:35:26 Operator: LAC
 Sample : DIESEL 400/1000 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

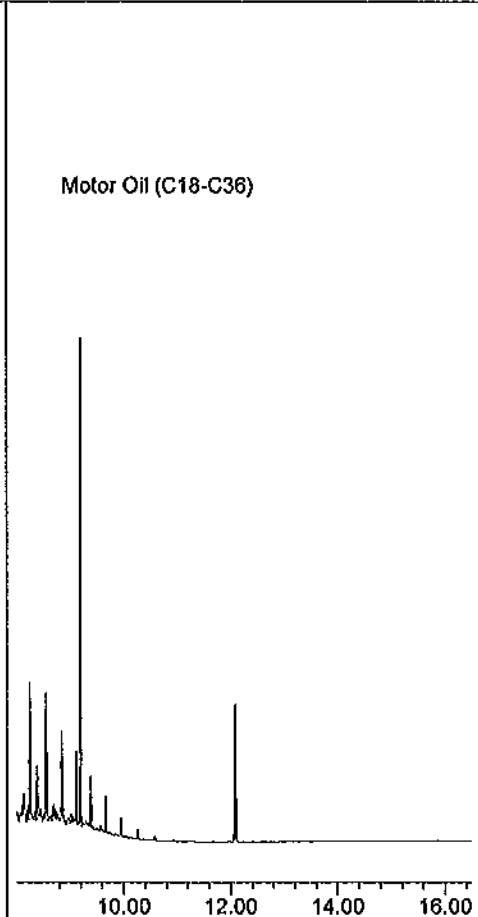
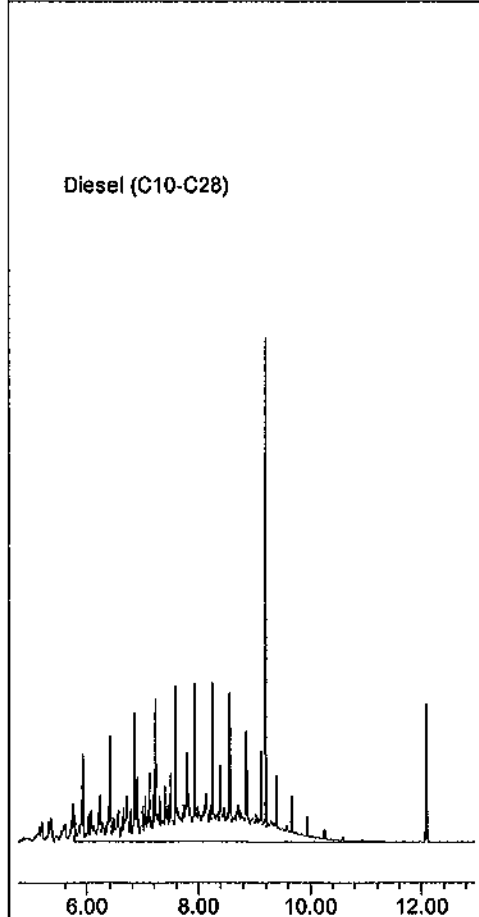
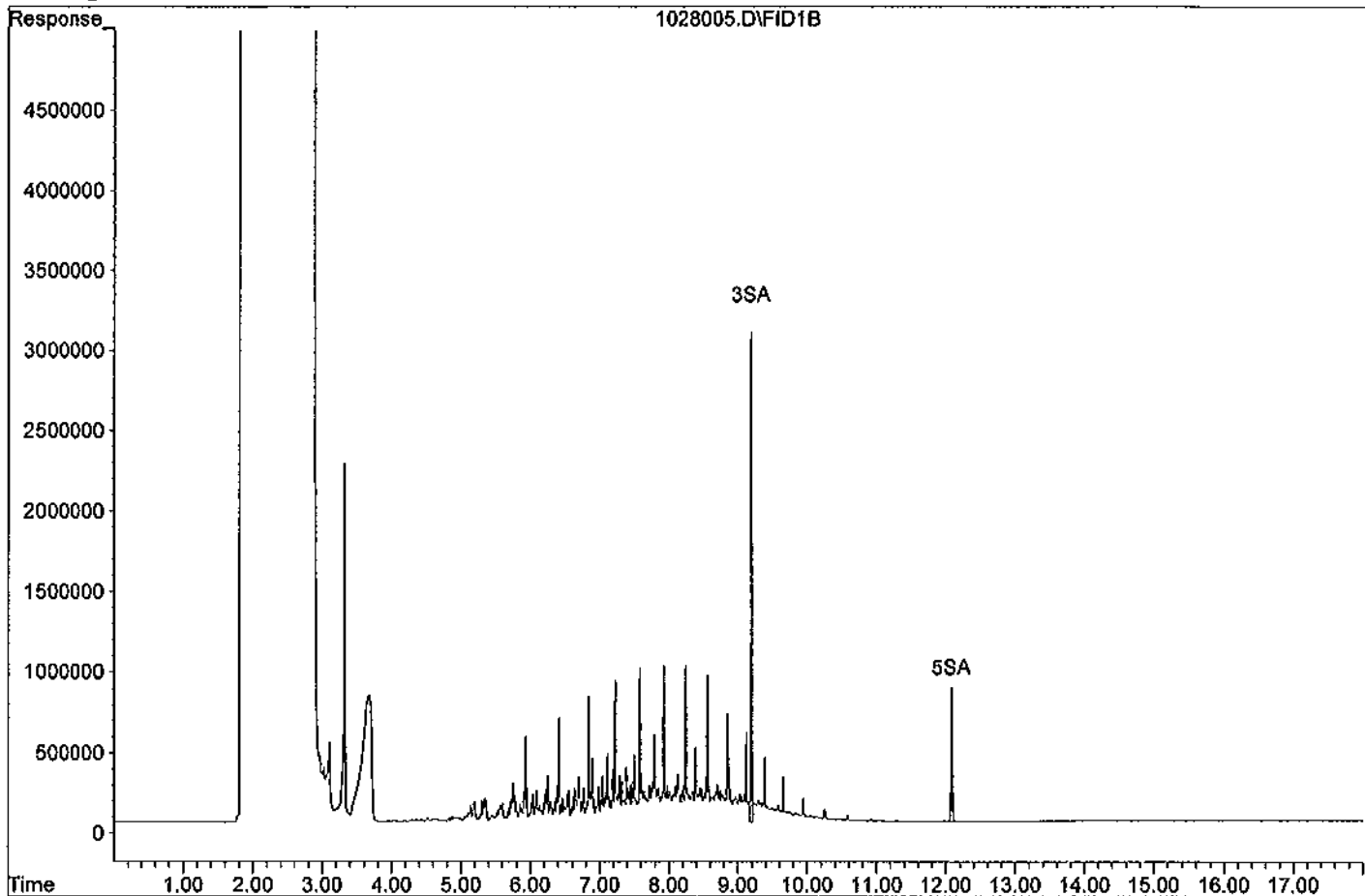
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Not Used(S)	9.19	21988346	34.683 ppb
Surrogate Spike 30.000		Recovery =	115.61%
5) SA Not Used2(S)	12.09	10887525	43.308 ppb
Surrogate Spike 30.000		Recovery =	144.36%
Target Compounds			
1) HATM Diesel (C10-C28)	8.86	378076624	436.171 ppb

Data File: G:\APOLLO\DATA\111028\1028005.D

Sample : DIESEL 400/1000



Data File : G:\APOLLO\DATA\111028\1028006.D Vial: 6
 Acq On : 10-28-11 10:59:35 Operator: LAC
 Sample : DIESEL 600/1000 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

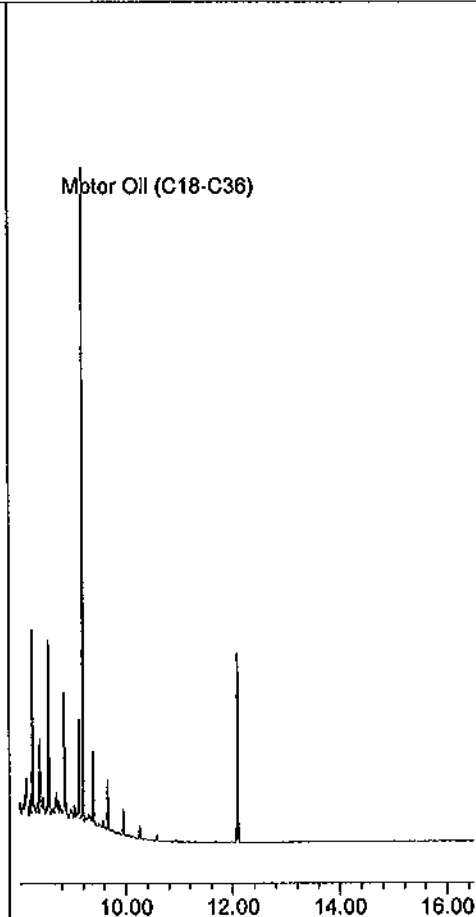
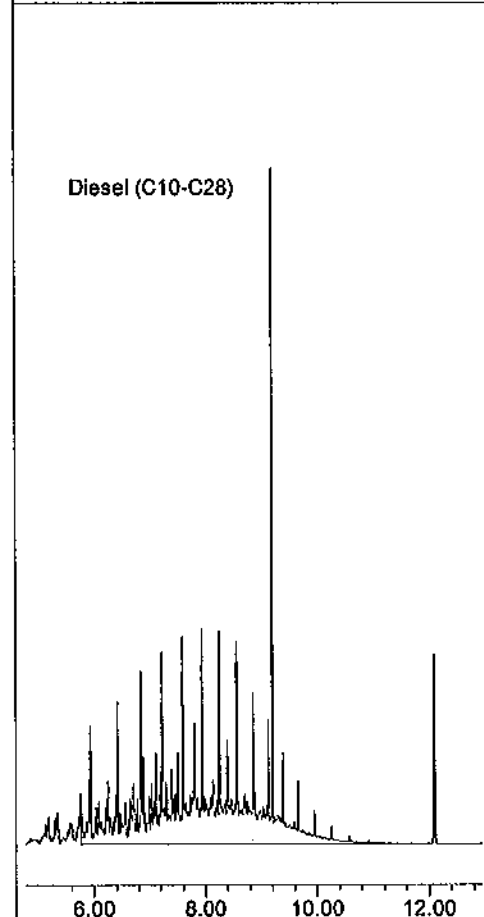
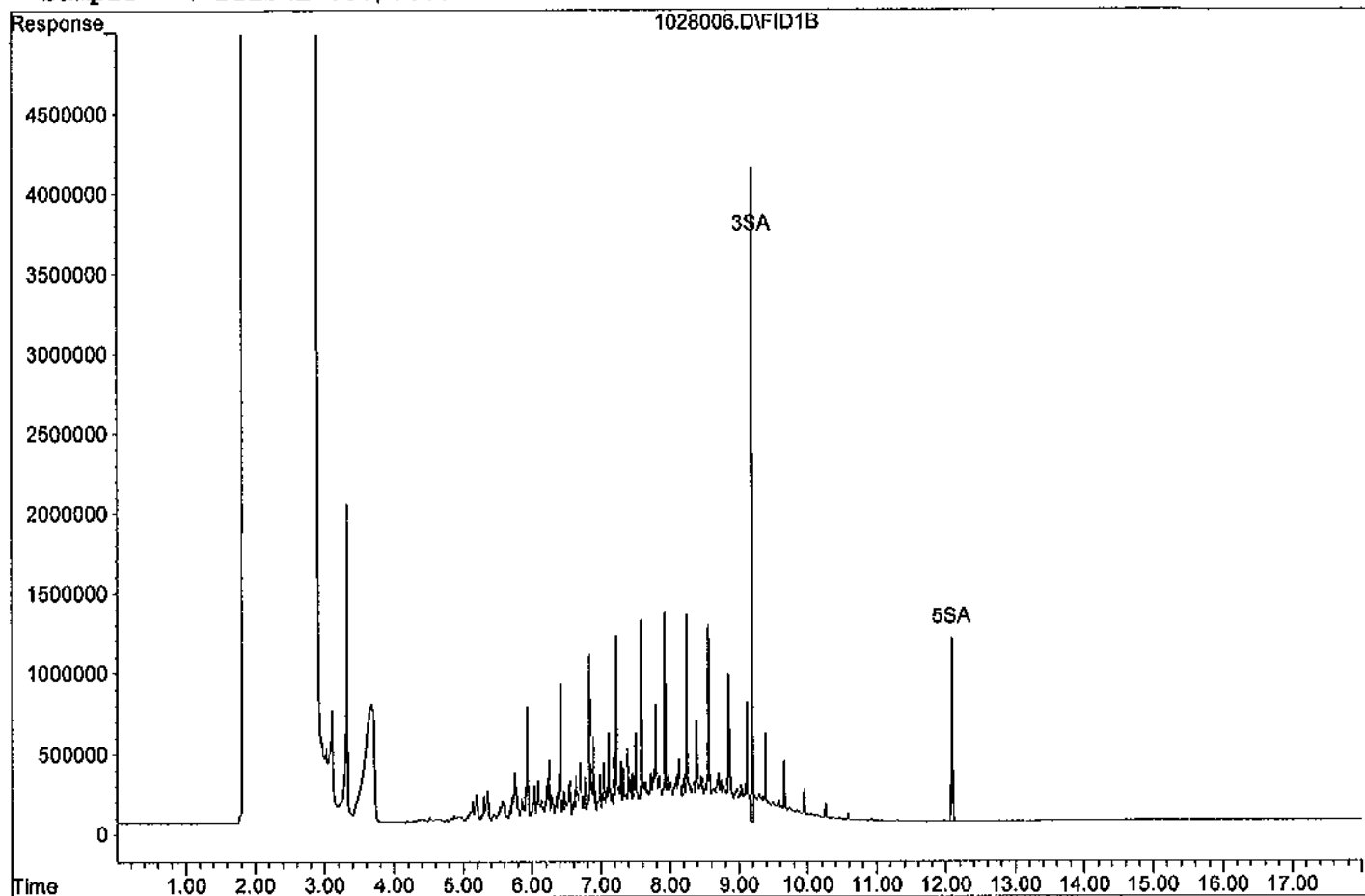
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Not Used(S)	9.20	29970170	47.273 ppb
Surrogate Spike 30.000		Recovery =	157.58%
5) SA Not Used2(S)	12.09	15171855	60.906 ppb
Surrogate Spike 30.000		Recovery =	203.02%
Target Compounds			
1) HATM Diesel (C10-C28)	8.86	508771749	586.949 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\111028\1028006.D

Sample : DIESEL 600/1000



Data File : G:\APOLLO\DATA\111028\1028007.D Vial: 7
 Acq On : 10-28-11 11:23:49 Operator: LAC
 Sample : DIESEL 800/1000 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

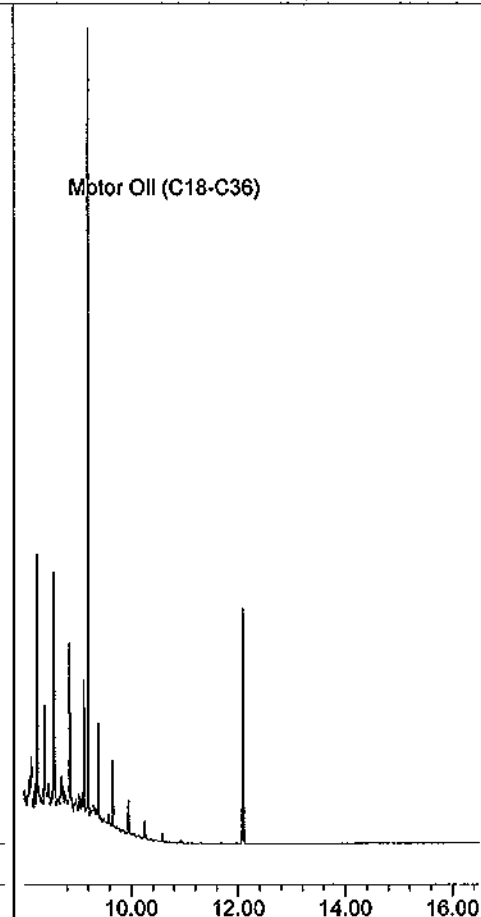
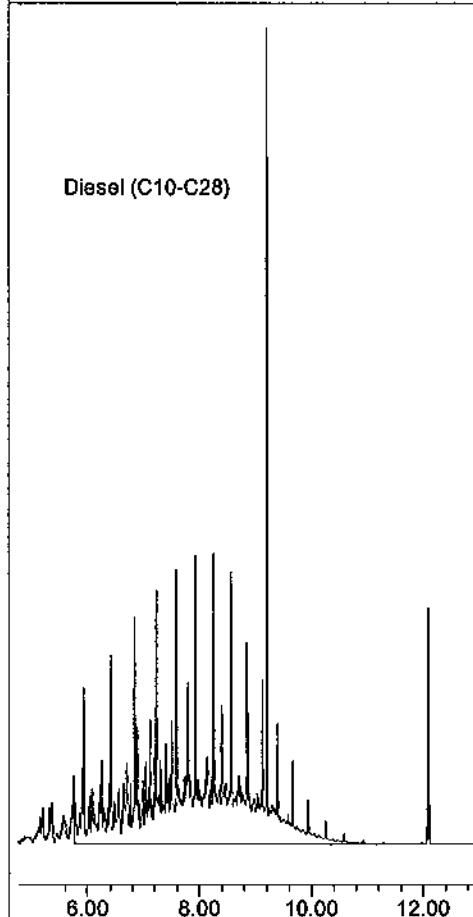
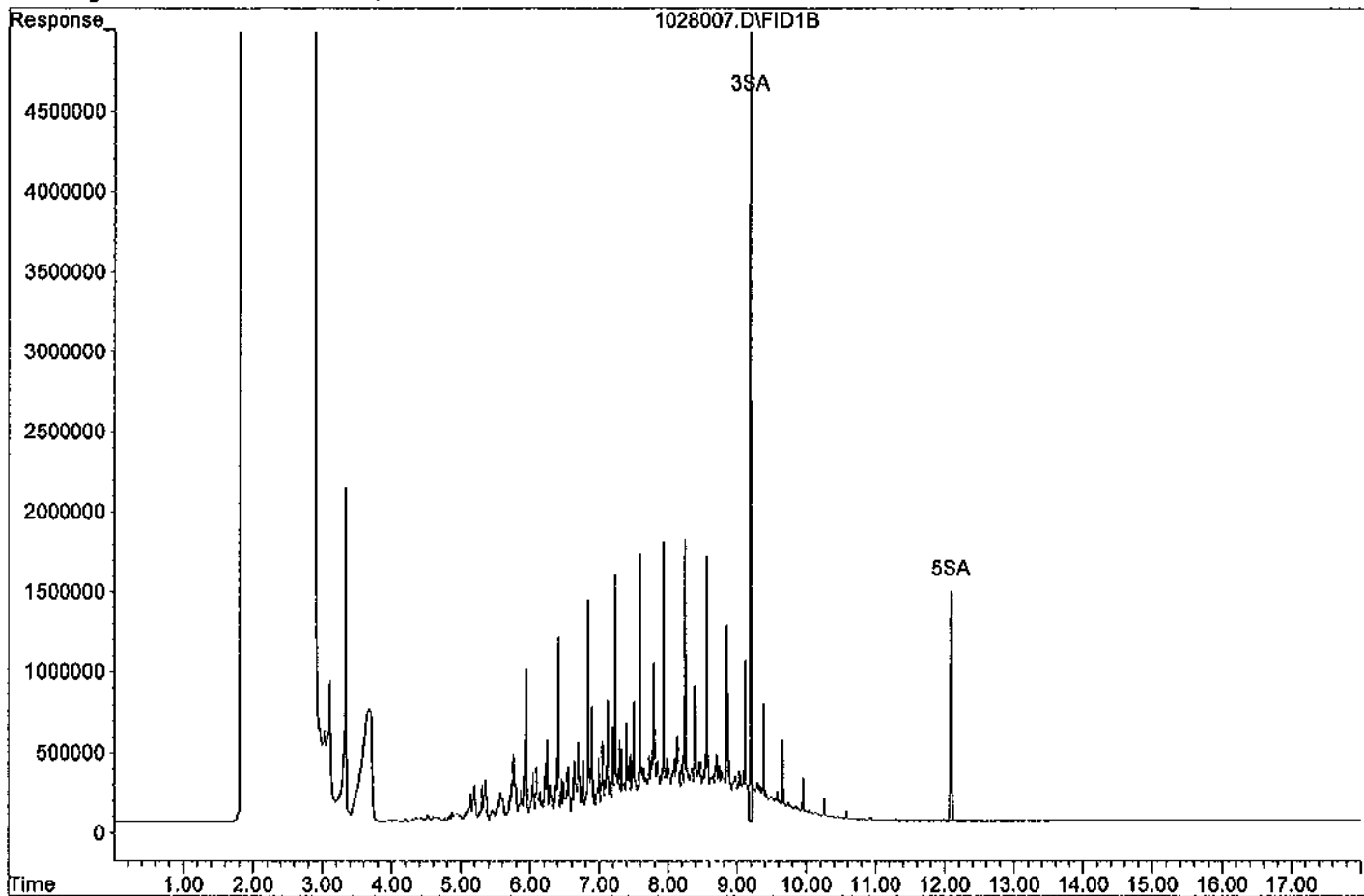
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Not Used(S)	9.20	40429014	63.770 ppb
Surrogate Spike 30.000		Recovery =	212.57%
5) SA Not Used2(S)	12.10	19720236	79.588 ppb
Surrogate Spike 30.000		Recovery =	265.29%
Target Compounds			
1) HATM Diesel (C10-C28)	8.86	680806039	785.417 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\111028\1028007.D

Sample : DIESEL 800/1000



Data File : G:\APOLLO\DATA\111028\1028008.D Vial: 8
 Acq On : 10-28-11 11:48:05 Operator: LAC
 Sample : DIESEL 1000/1000 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

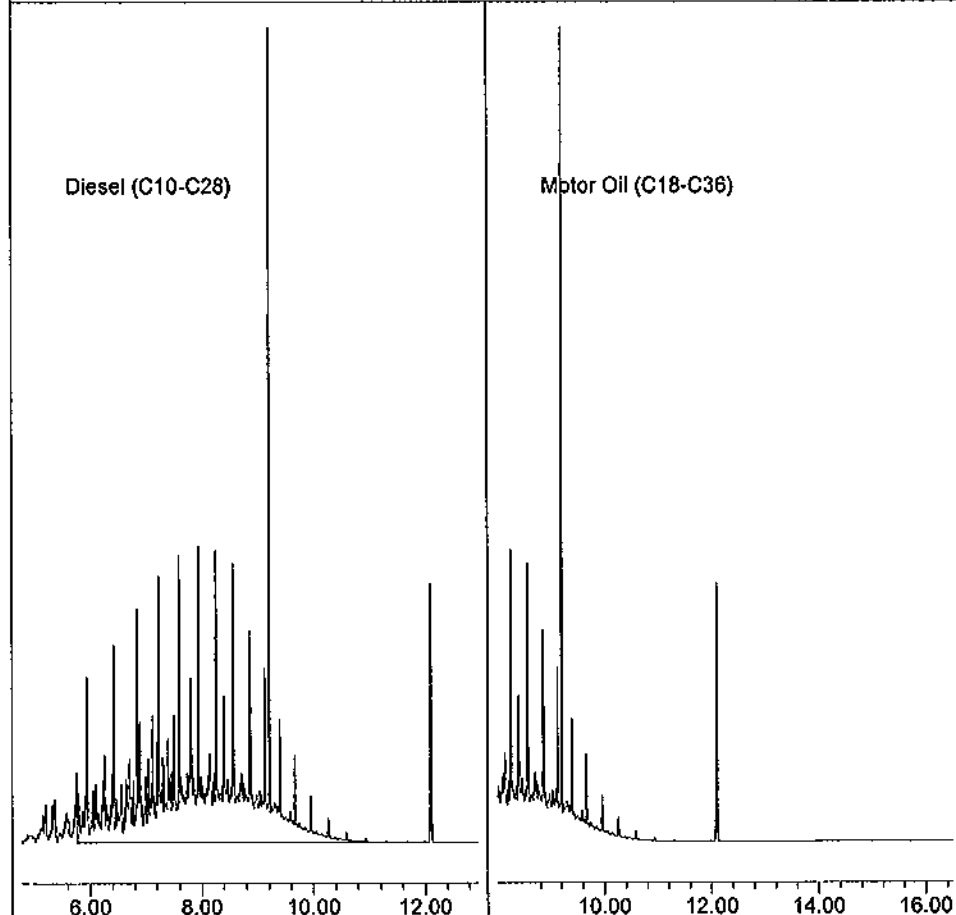
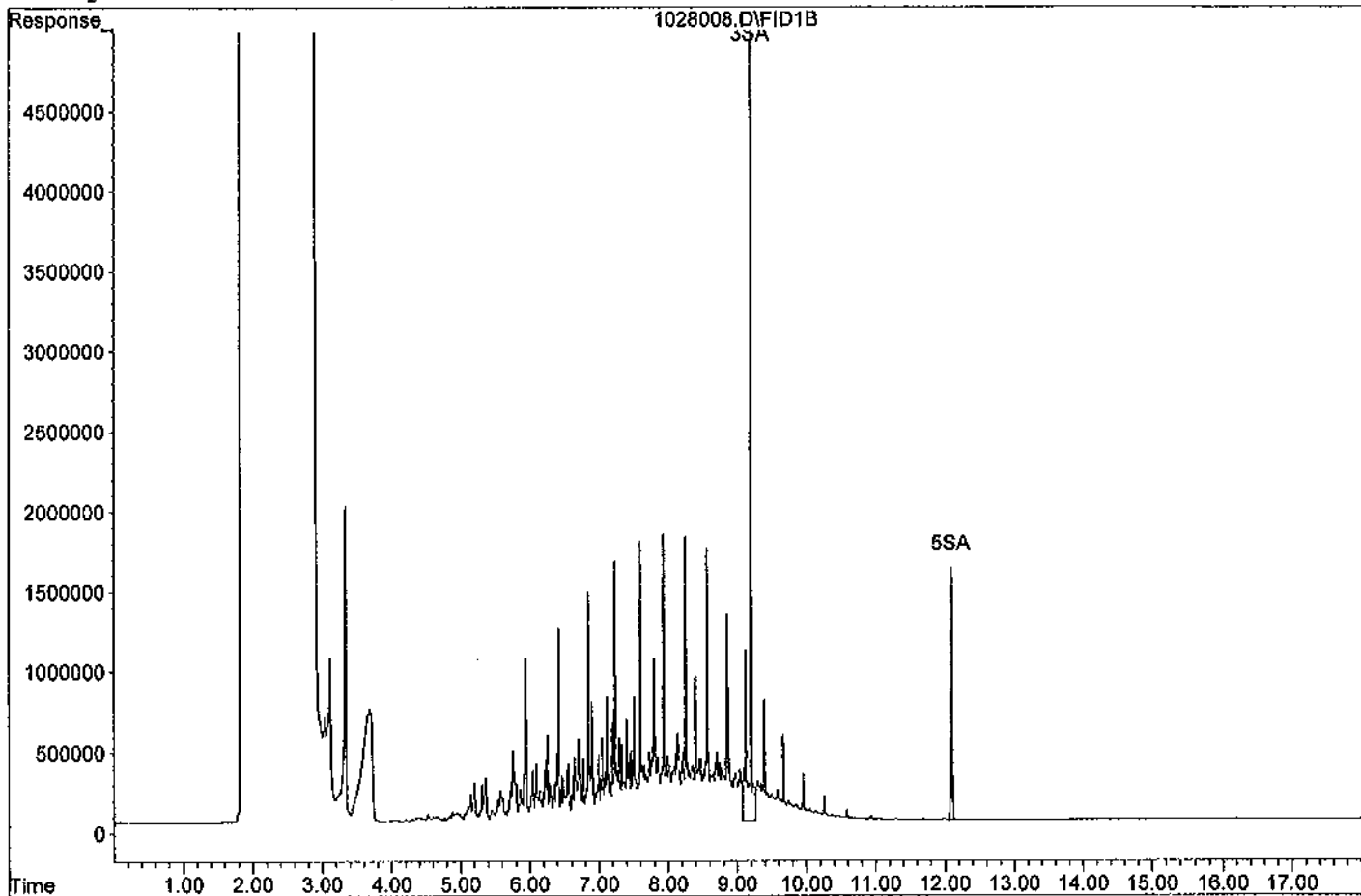
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Not Used(S)	9.20	68048921	107.335 ppb
Surrogate Spike 30.000		Recovery =	357.78%
5) SA Not Used2(S)	12.10	21357059	86.311 ppb
Surrogate Spike 30.000		Recovery =	287.70%
Target Compounds			
1) HATM Diesel (C10-C28)	8.86	680836698	785.453 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\111028\1028008.D

Sample : DIESEL 1000/1000



Data File : G:\APOLLO\DATA\111028\1028009.D Vial: 9
 Acq On : 10-28-11 12:12:27 Operator: LAC
 Sample : MOTOR OIL 50/1000 10/28/11 Inst : Apollo
 Misc : Mix(B) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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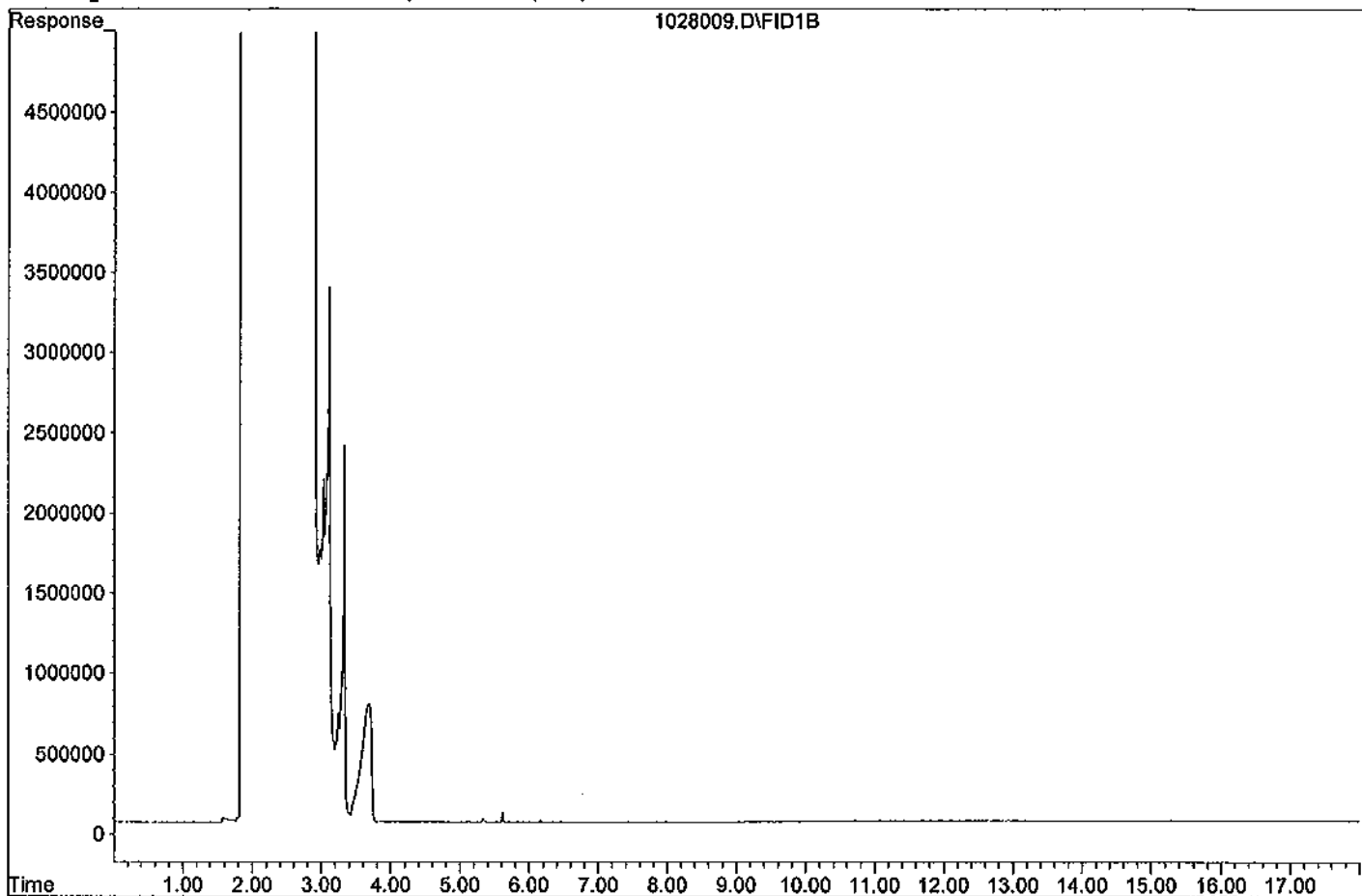
System Monitoring Compounds

Target Compounds

2) HBTM Motor Oil (C18-C36)	12.25	17842259	49.322 ppb
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Data File: G:\APOLLO\DATA\111028\1028009.D

Sample : MOTOR OIL 50/1000 10/28/11



Diesel (C10-C28)

Motor Oil (C18-C36)

6.00 7.00 8.00 9.00 10.00 11.00 12.00

10.00 12.00 14.00 16.00

Data File : G:\APOLLO\DATA\111028\1028010.D Vial: 10
 Acq On : 10-28-11 12:36:20 Operator: LAC
 Sample : MOTOR OIL 100/1000 Inst : Apollo
 Misc : Mix(B) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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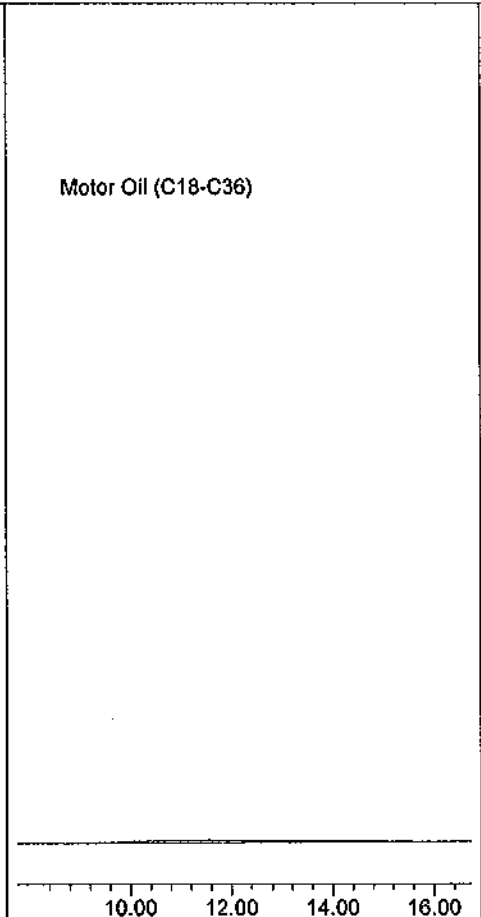
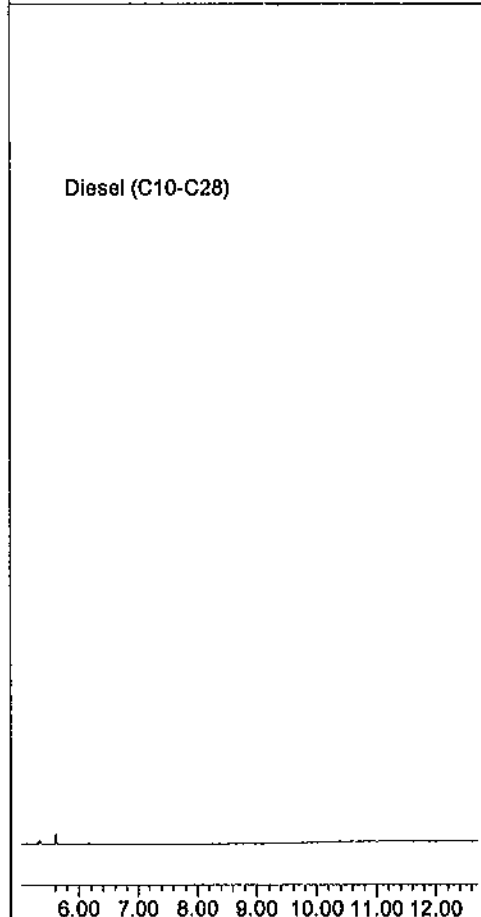
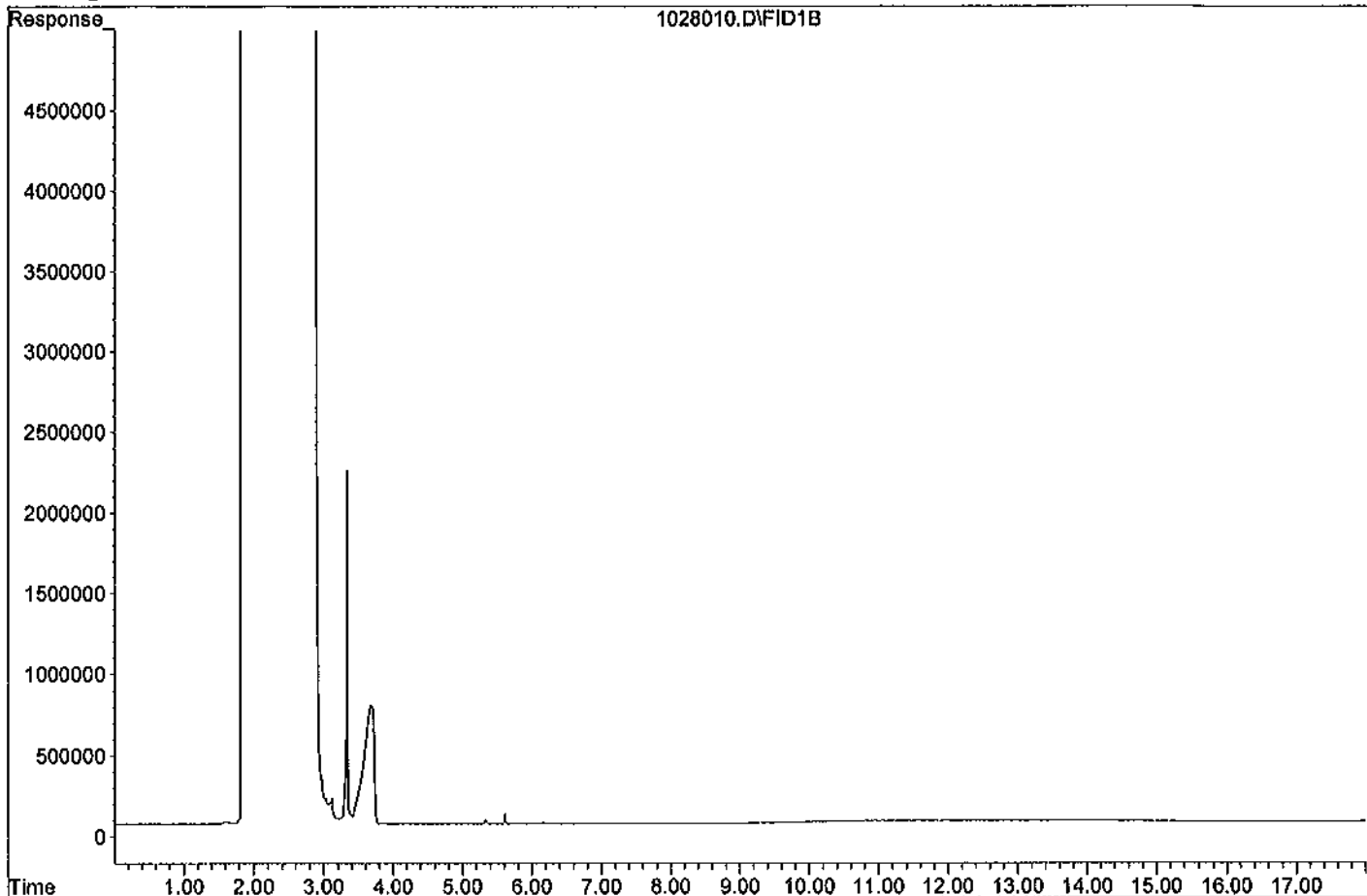
System Monitoring Compounds

Target Compounds

2) HBTM Motor Oil (C18-C36)	12.25	36743279	101.570 ppb
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Data File: G:\APOLLO\DATA\111028\1028010.D

Sample : MOTOR OIL 100/1000



Data File : G:\APOLLO\DATA\111028\1028011.D Vial: 11
 Acq On : 10-28-11 13:00:16 Operator: LAC
 Sample : MOTOR OIL 400/1000 Inst : Apollo
 Misc : Mix(B) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

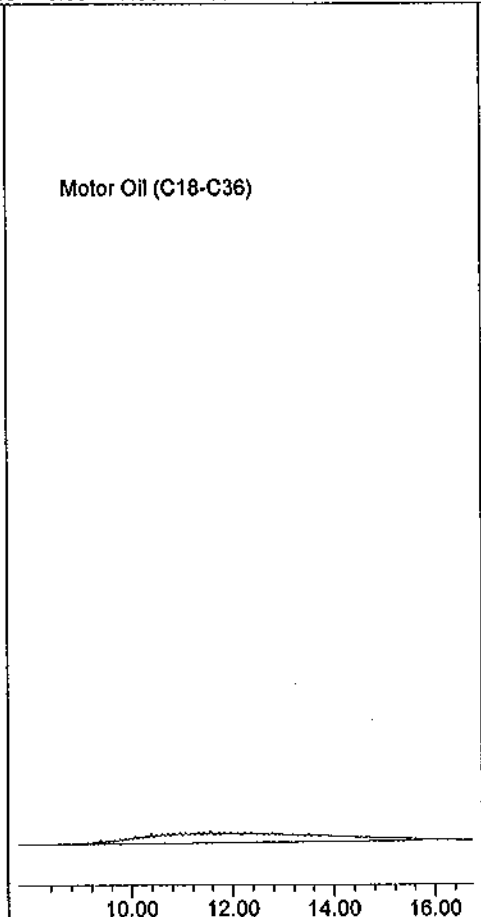
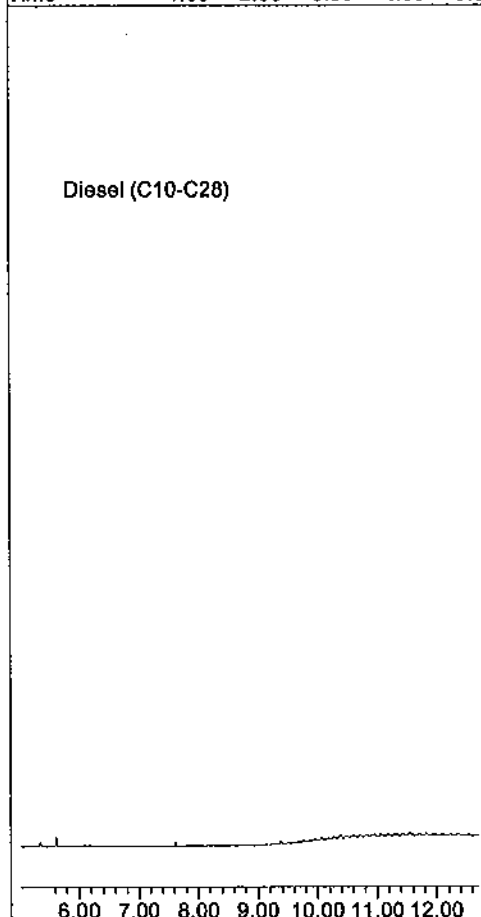
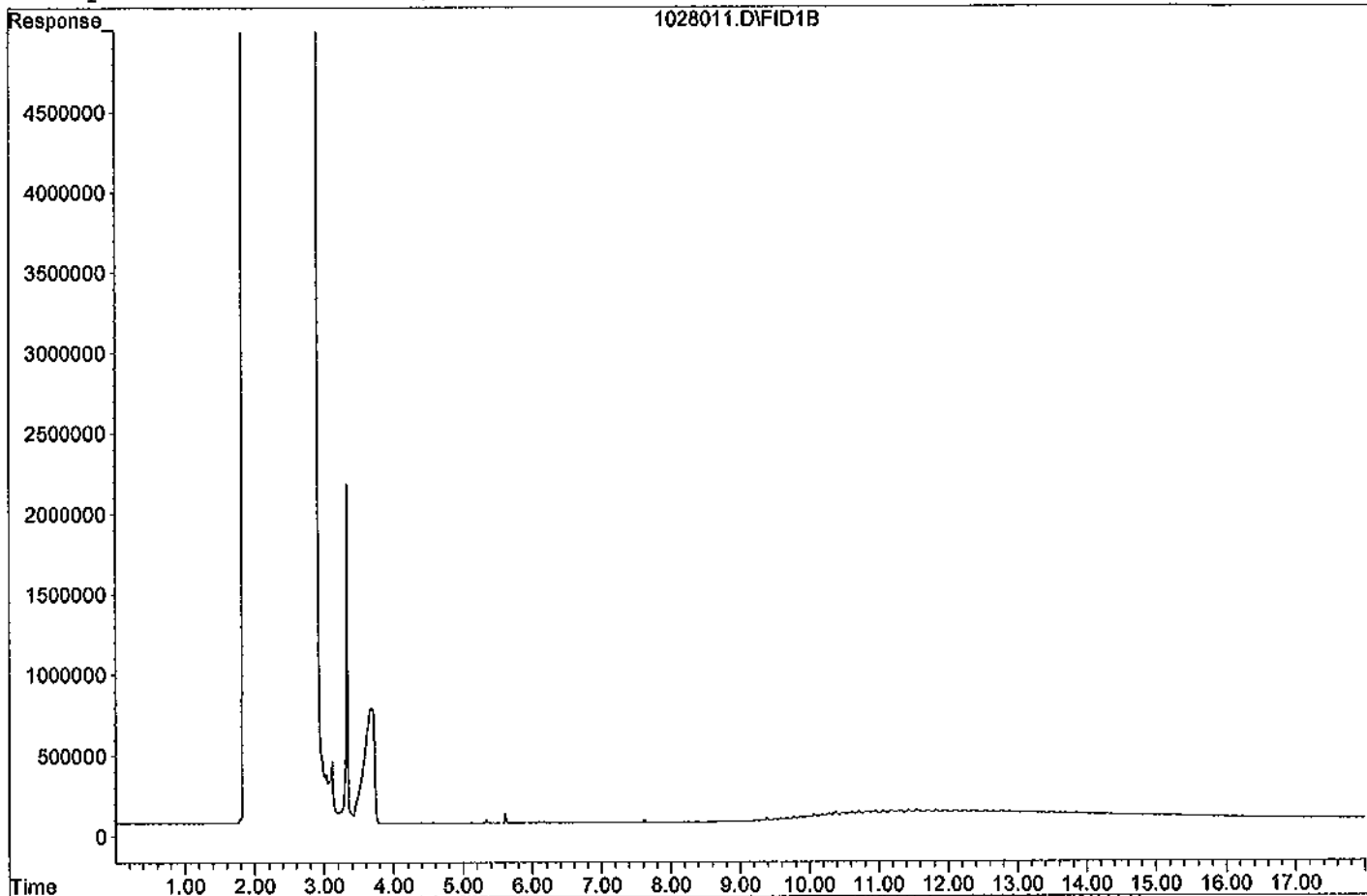
Target Compounds

2) HBTM Motor Oil (C18-C36)	12.25	147050915	406.495 ppb
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Quantitation Report

Data File: G:\APOLLO\DATA\111028\1028011.D

Sample : MOTOR OIL 400/1000



Data File : G:\APOLLO\DATA\111028\1028012.D Vial: 12
 Acq On : 10-28-11 13:24:39 Operator: LAC
 Sample : MOTOR OIL 600/1000 Inst : Apollo
 Misc : Mix(B) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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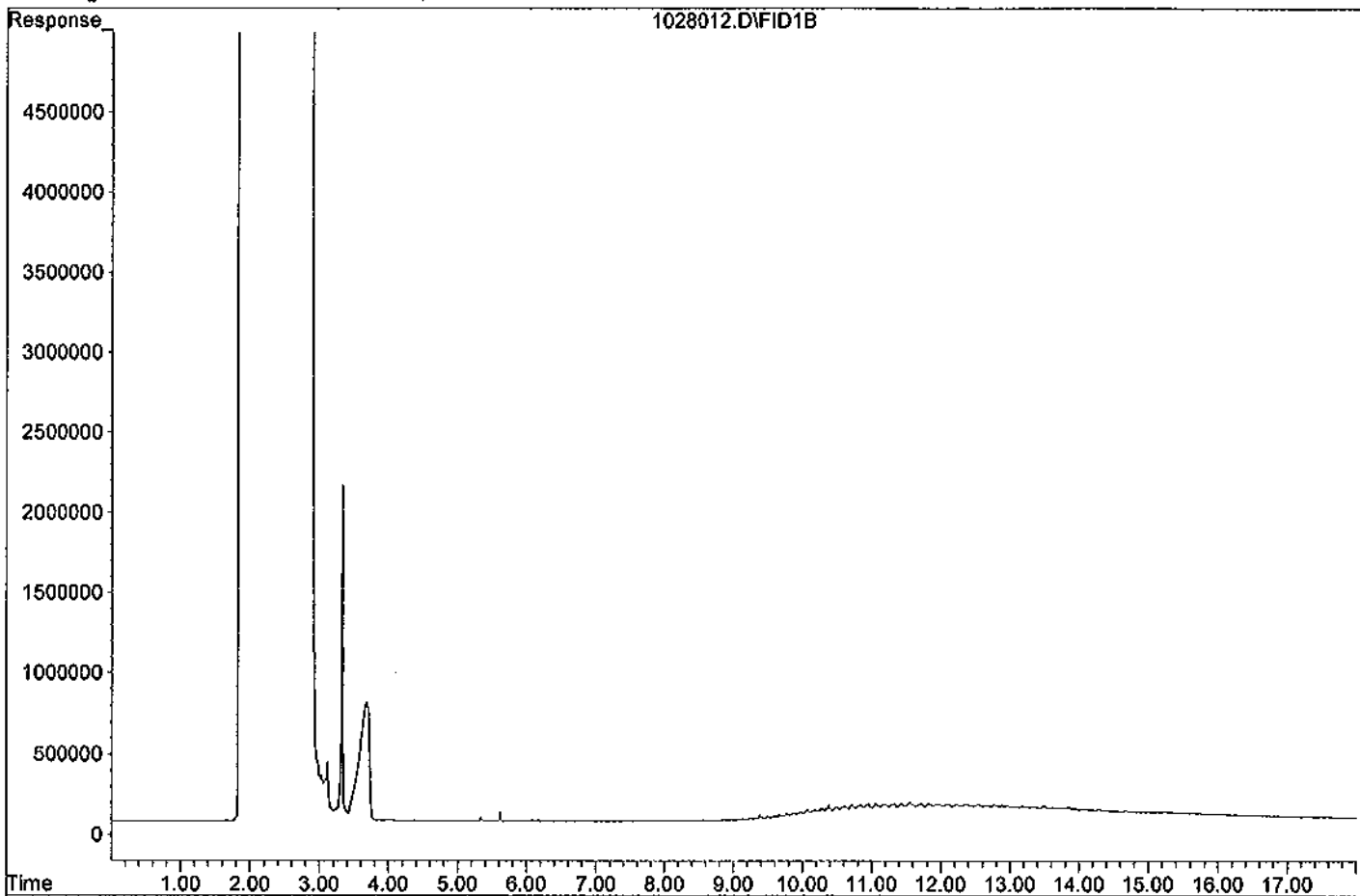
System Monitoring Compounds

Target Compounds

2) HBTM Motor Oil (C18-C36)	12.25	216778154	599.242 ppb
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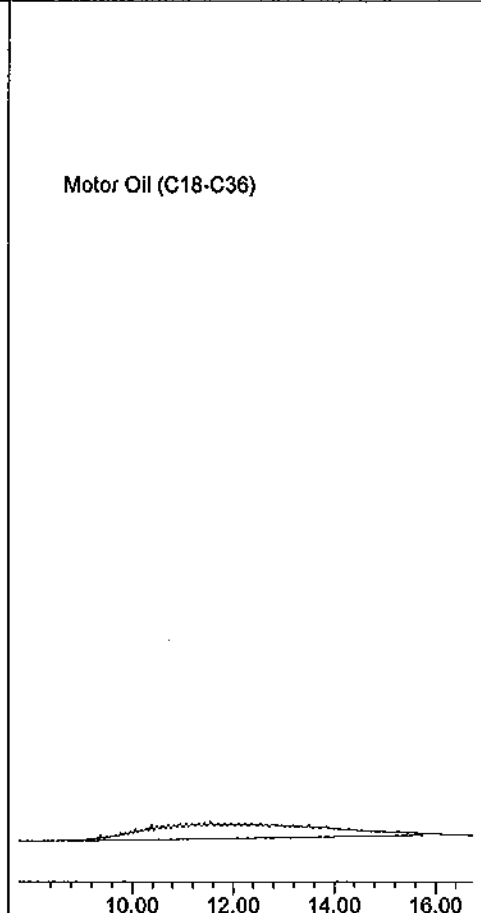
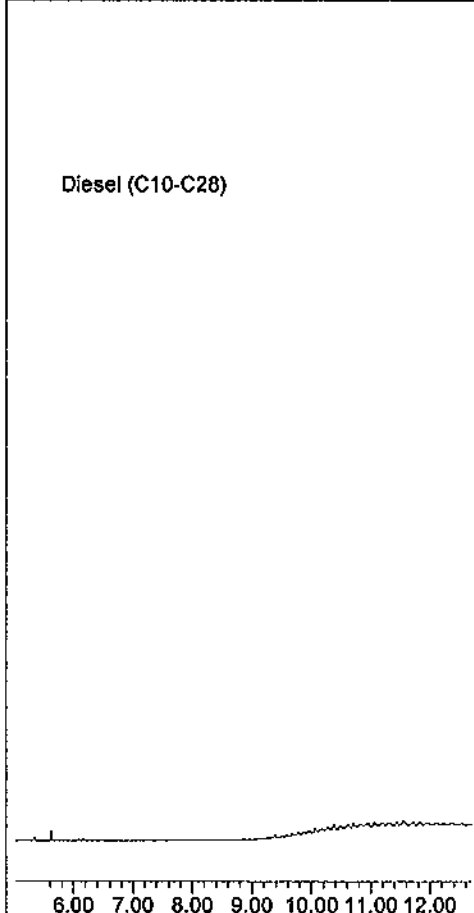
Data File: G:\APOLLO\DATA\111028\1028012.D

Sample : MOTOR OIL 600/1000



Diesel (C10-C28)

Motor Oil (C18-C36)



Data File : G:\APOLLO\DATA\111028\1028013.D Vial: 13
 Acq On : 10-28-11 13:48:43 Operator: LAC
 Sample : MOTOR OIL 800/1000 Inst : Apollo
 Misc : Mix(B) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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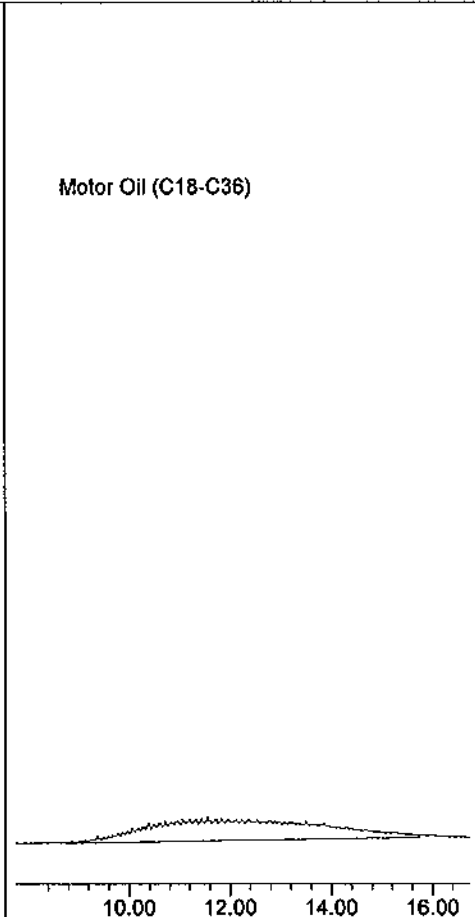
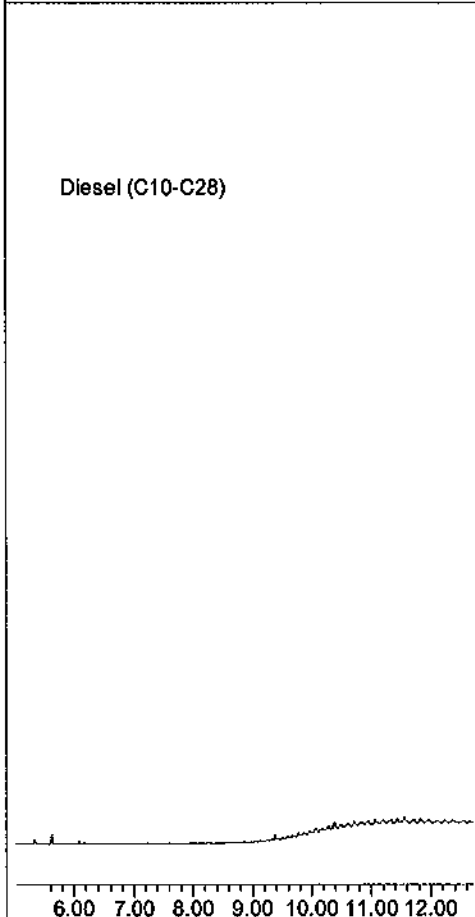
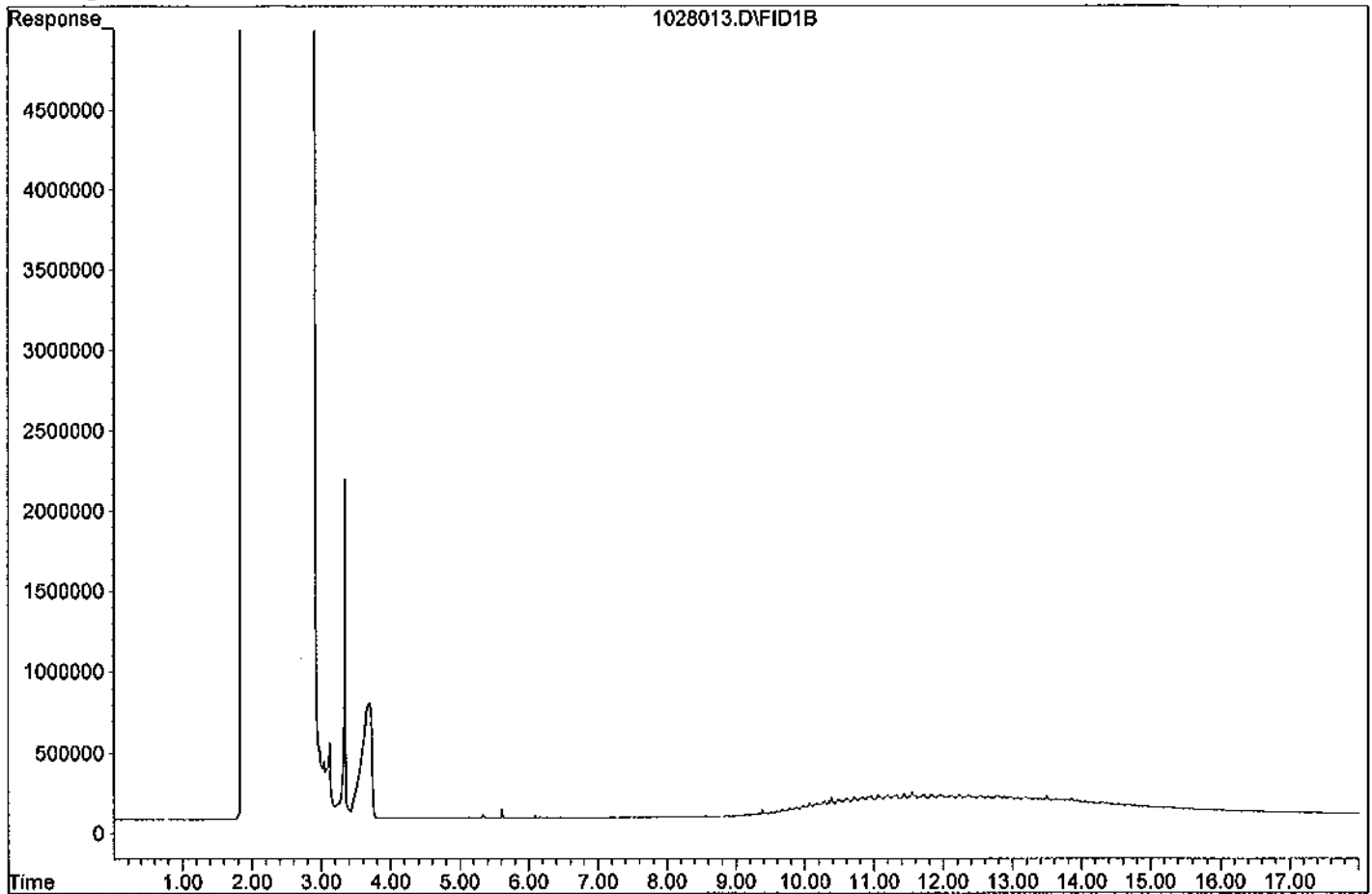
System Monitoring Compounds

Target Compounds

2) HBTM Motor Oil (C18-C36)	12.25	303785051	839.757 ppb
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Data File: G:\APOLLO\DATA\111028\1028013.D

Sample : MOTOR OIL 800/1000



Data File : G:\APOLLO\DATA\111028\1028014.D Vial: 14
 Acq On : 10-28-11 14:13:14 Operator: LAC
 Sample : MOTOR OIL 1000/1000 Inst : Apollo
 Misc : Mix(B) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DE-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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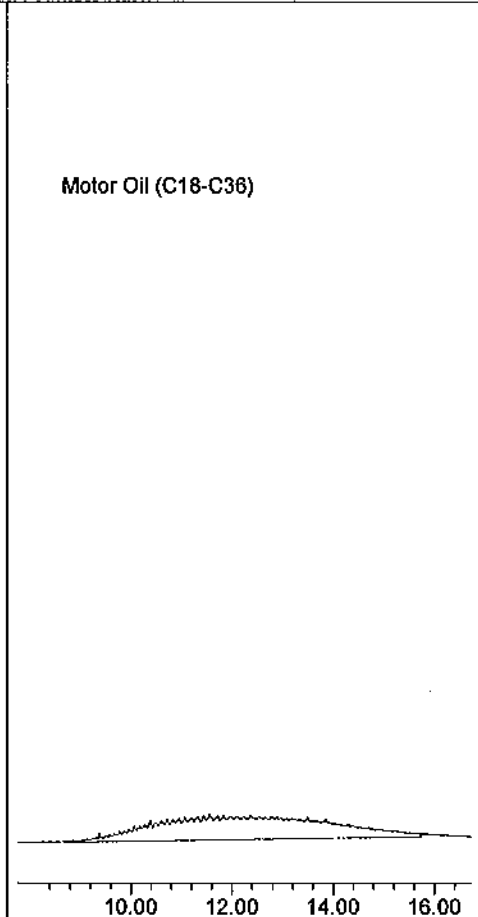
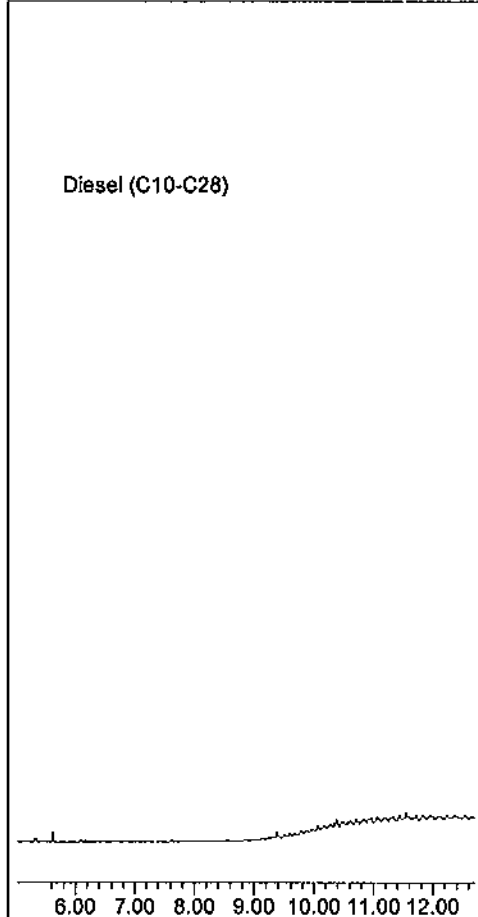
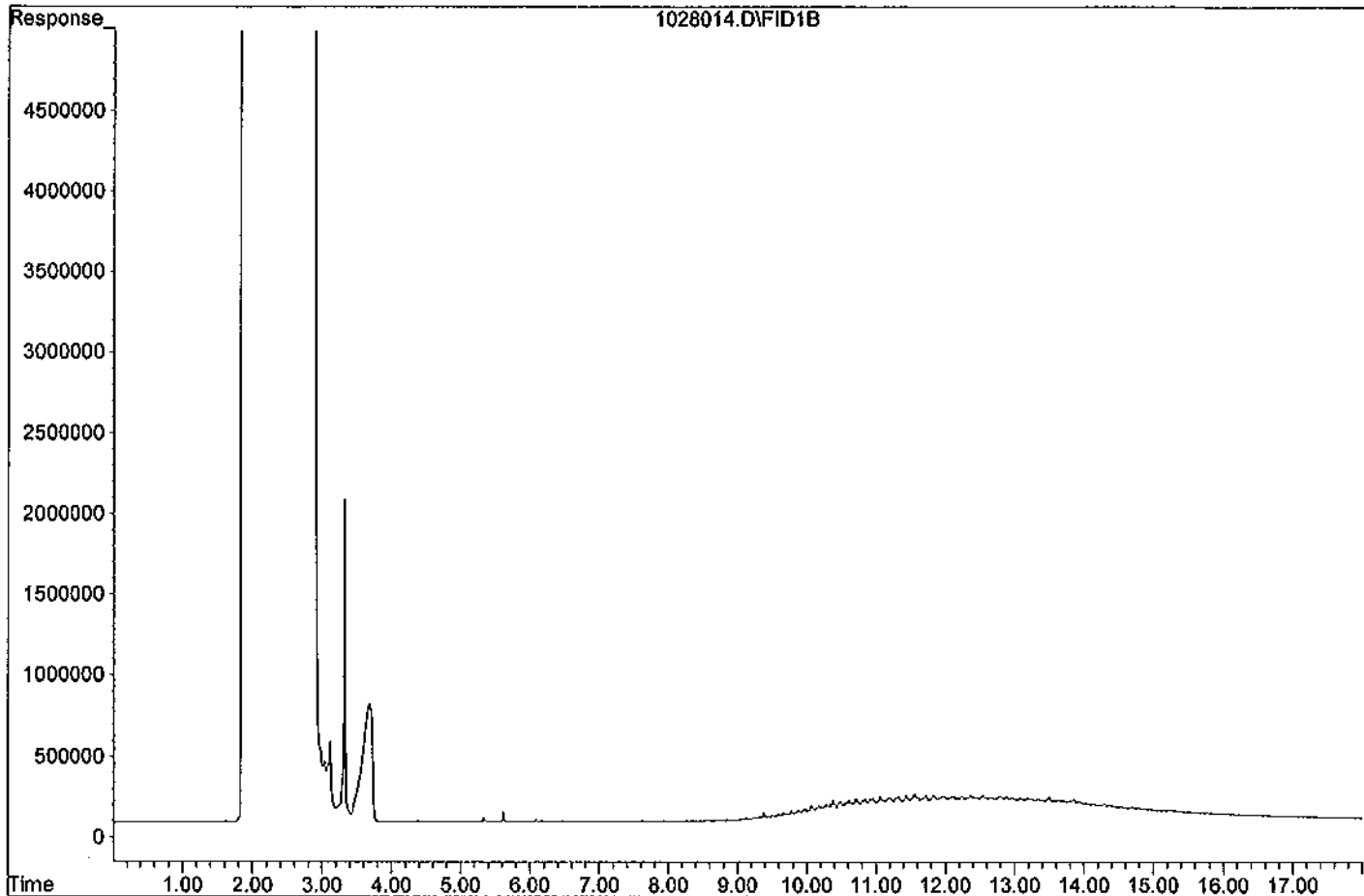
System Monitoring Compounds

Target Compounds

2) HBTM Motor Oil (C18-C36)	12.25	342332944	946.315 ppb
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Data File: G:\APOLLO\DATA\111028\1028014.D

Sample : MOTOR OIL 1000/1000



Data File : G:\APOLLO\DATA\111028\1028016.D Vial: 16
 Acq On : 10-28-11 15:01:44 Operator: LAC
 Sample : THC SURR 10/1000 10/28/11 Inst : Apollo
 Misc : Mix(C) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 31 9:01 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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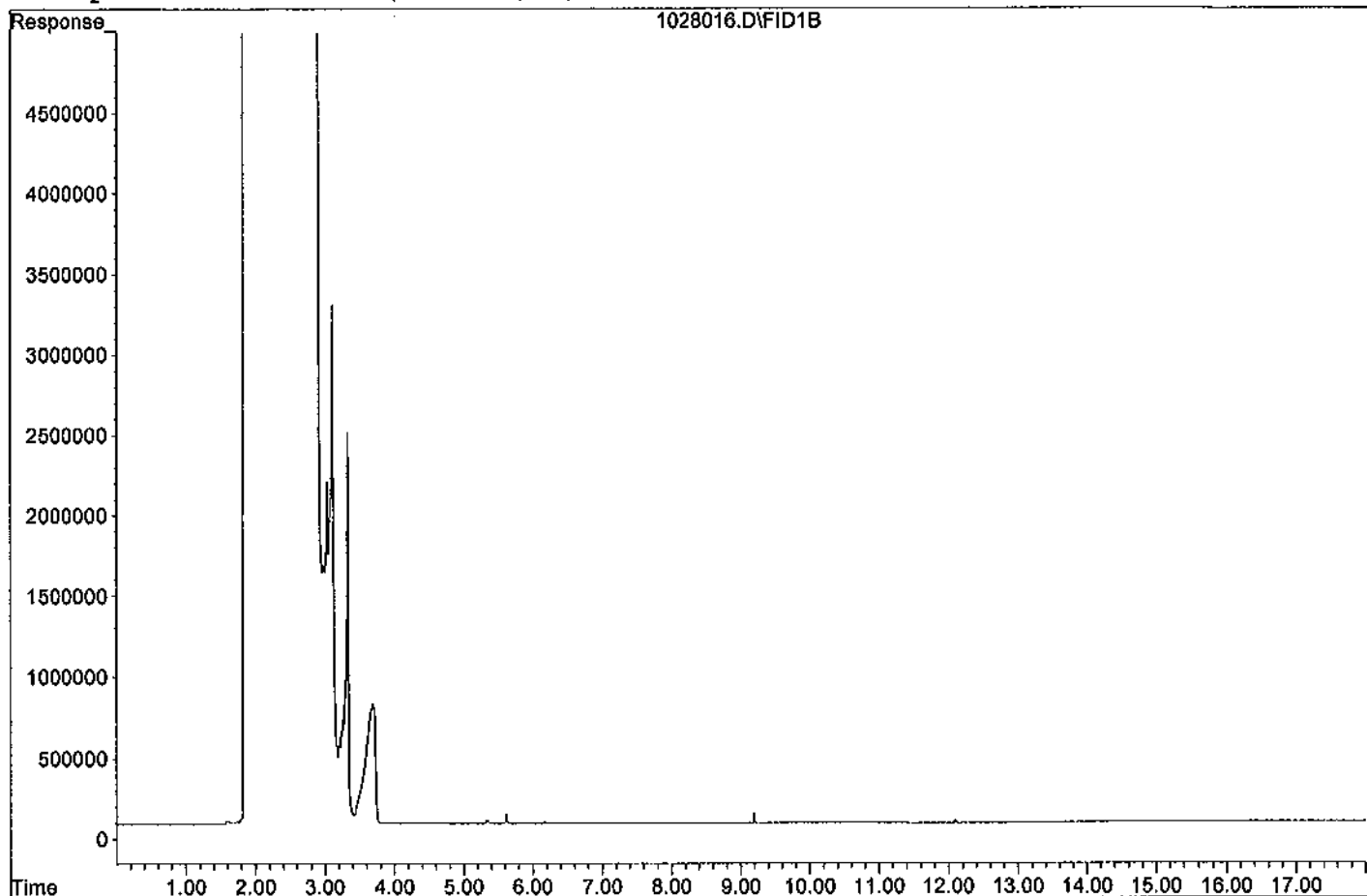
System Monitoring Compounds

Target Compounds

Quantitation Report

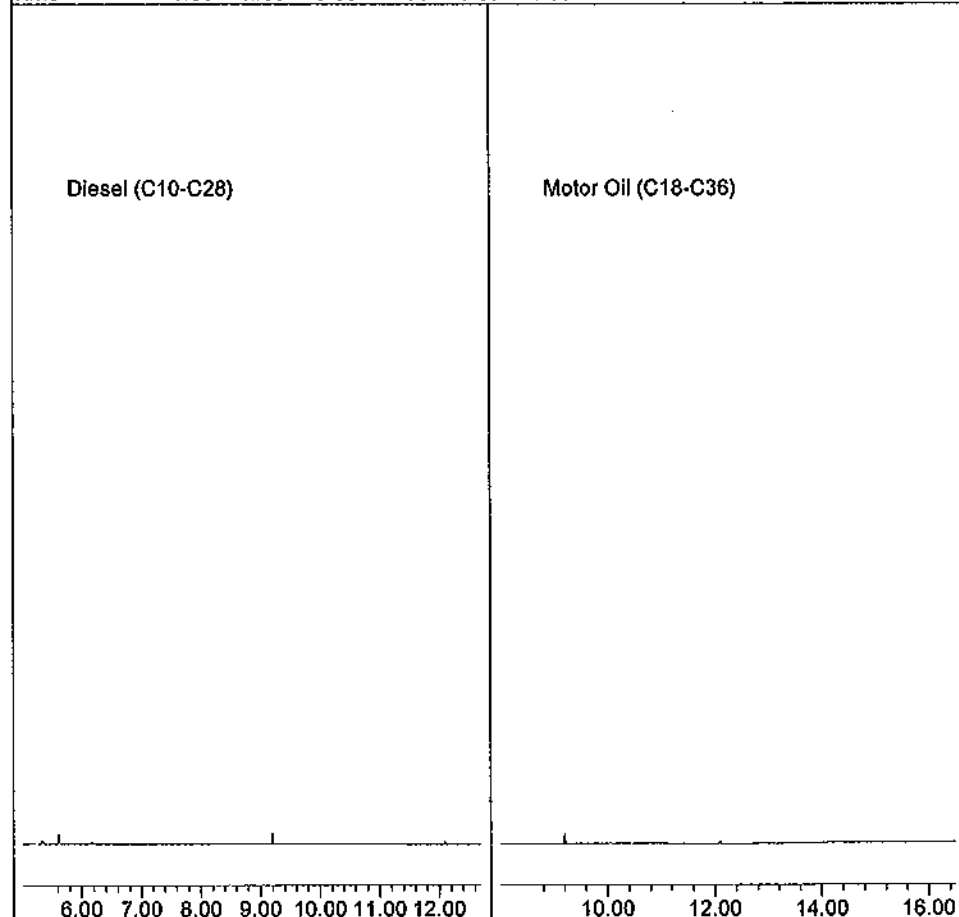
Data File: G:\APOLLO\DATA\111028\1028016.D

Sample : THC SURR 10/1000 10/28/11



Diesel (C10-C28)

Motor Oil (C18-C36)



Data File : G:\APOLLO\DATA\111028\1028017.D Vial: 17
 Acq On : 10-28-11 15:25:58 Operator: LAC
 Sample : THC SURR 100/1000 Inst : Apollo
 Misc : Mix(C) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 31 9:01 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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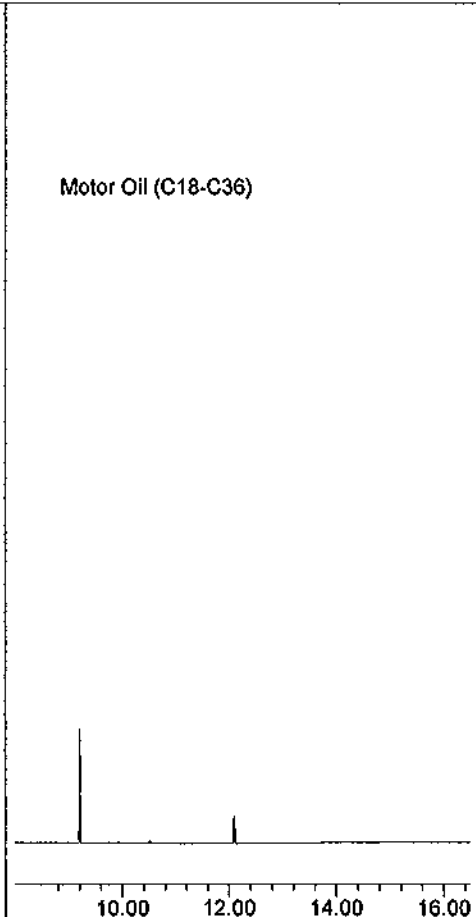
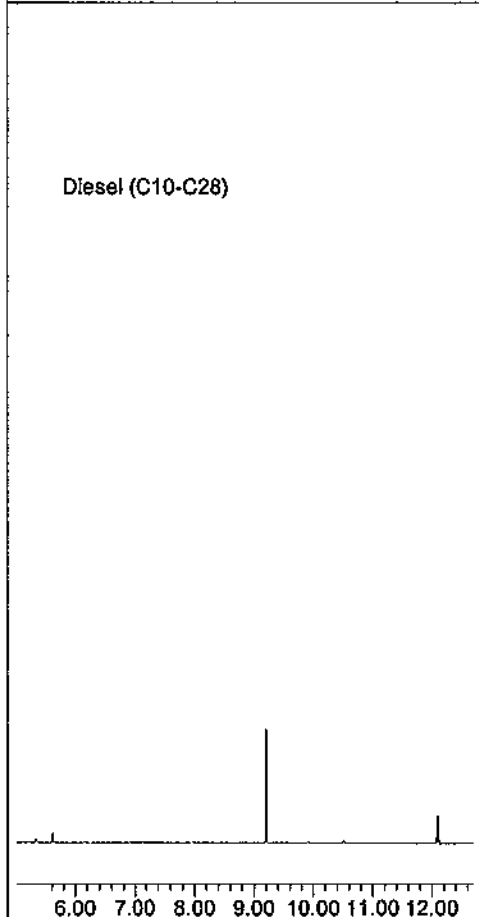
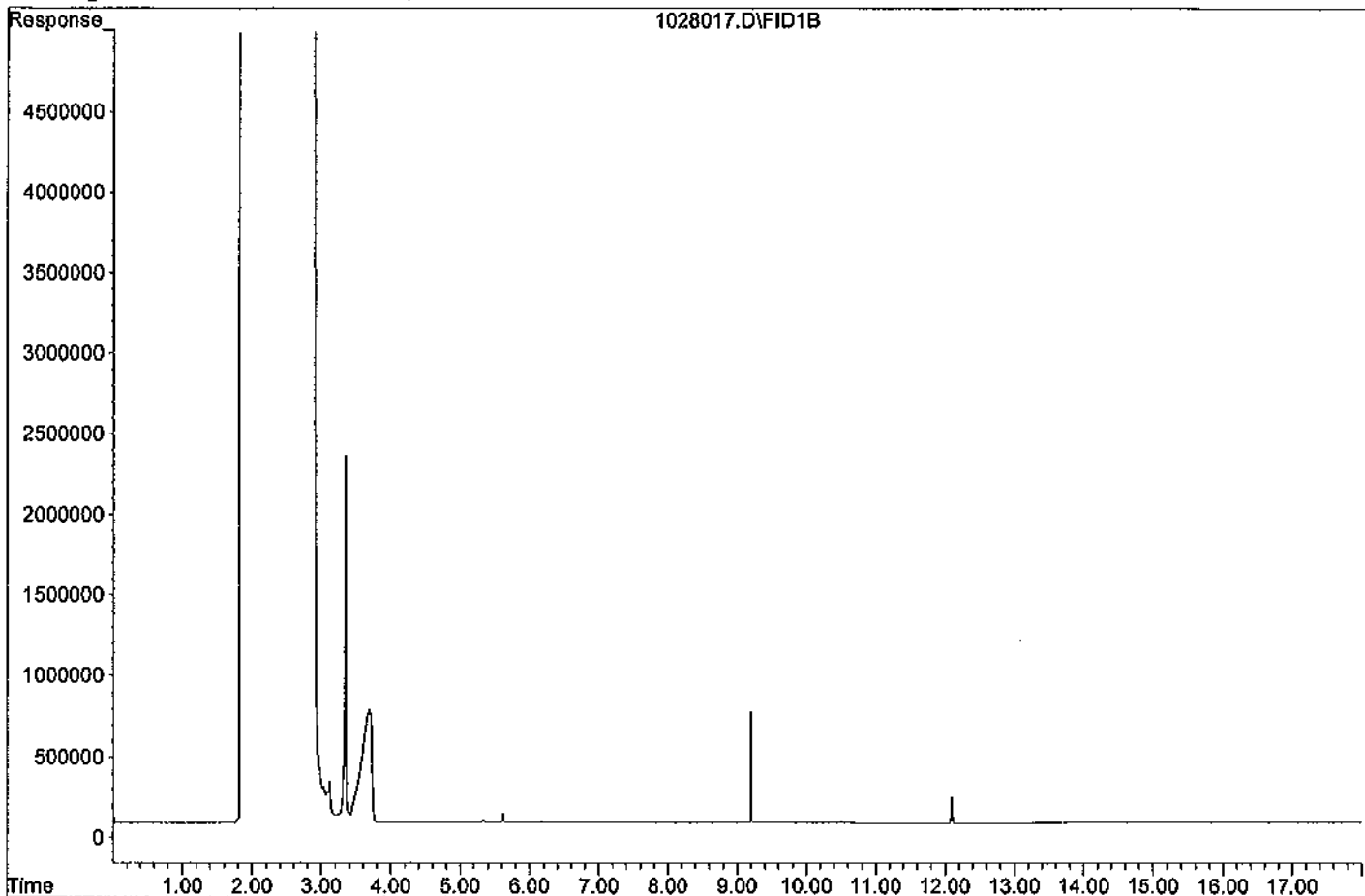
System Monitoring Compounds

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\111028\1028017.D

Sample : THC SURR 100/1000



Data File : G:\APOLLO\DATA\111028\1028018.D Vial: 18
 Acq On : 10-28-11 15:50:20 Operator: LAC
 Sample : THC SURR 400/1000 Inst : Apollo
 Misc : Mix(C) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 31 9:01 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

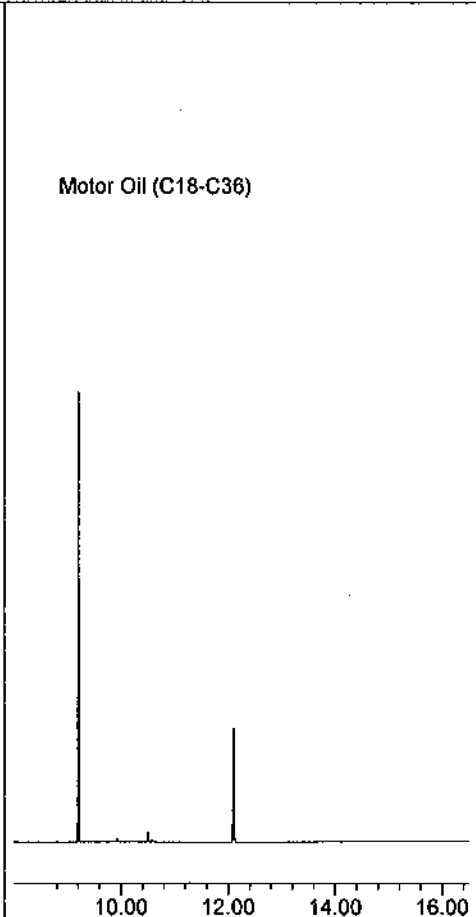
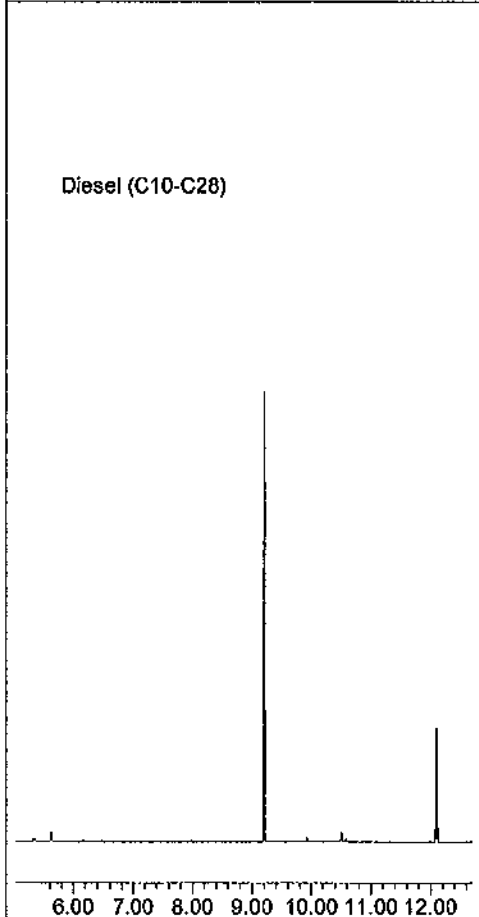
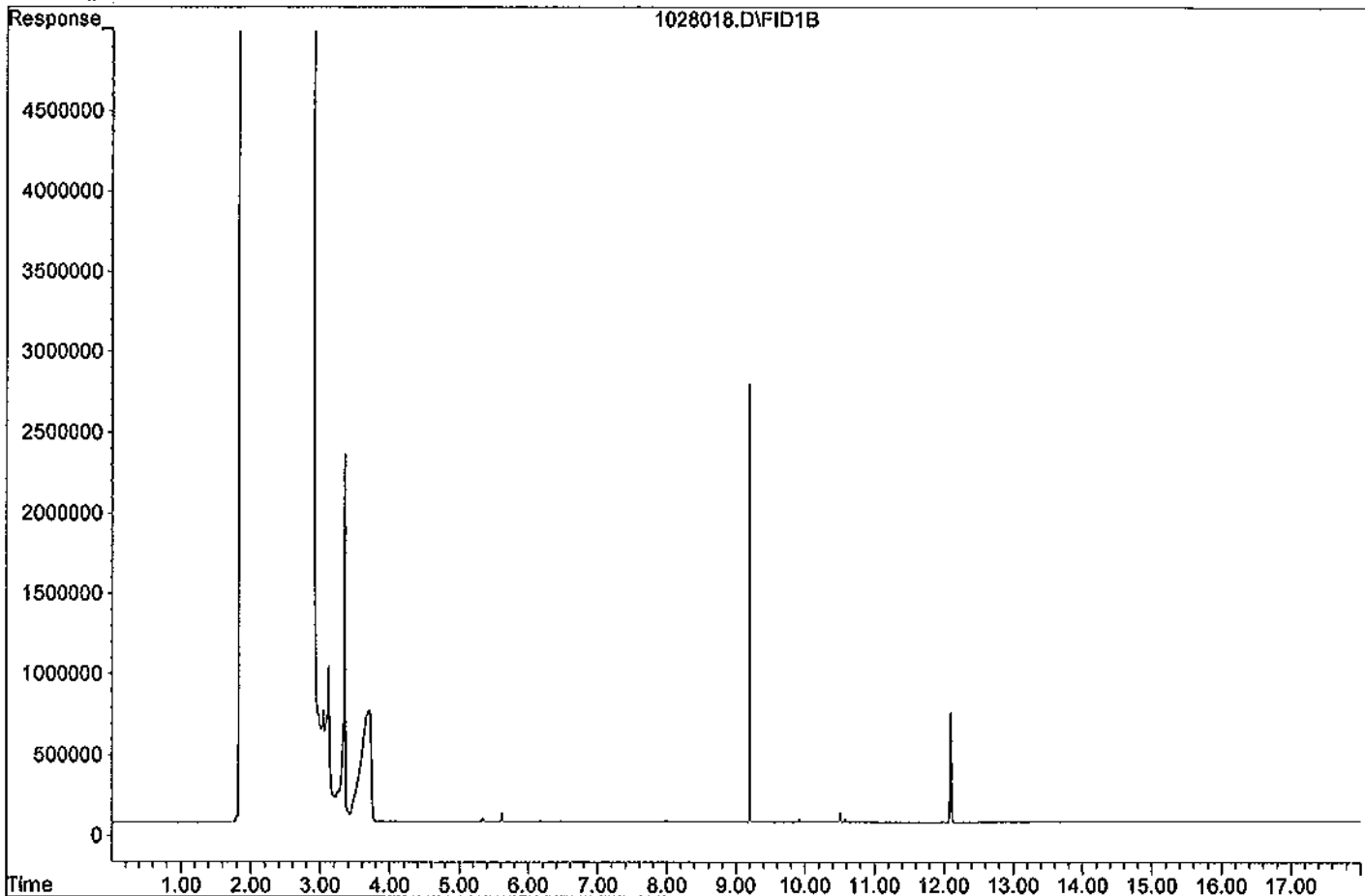
Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

Target Compounds

Data File: G:\APOLLO\DATA\111028\1028018.D

Sample : THC SURR 400/1000



Data File : G:\APOLLO\DATA\111028\1028019.D Vial: 19
Acq On : 10-28-11 16:14:52 Operator: LAC
Sample : THC SURR 600/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 31 9:01 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Oct 31 10:02:11 2011
Response via : Multiple Level Calibration

Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

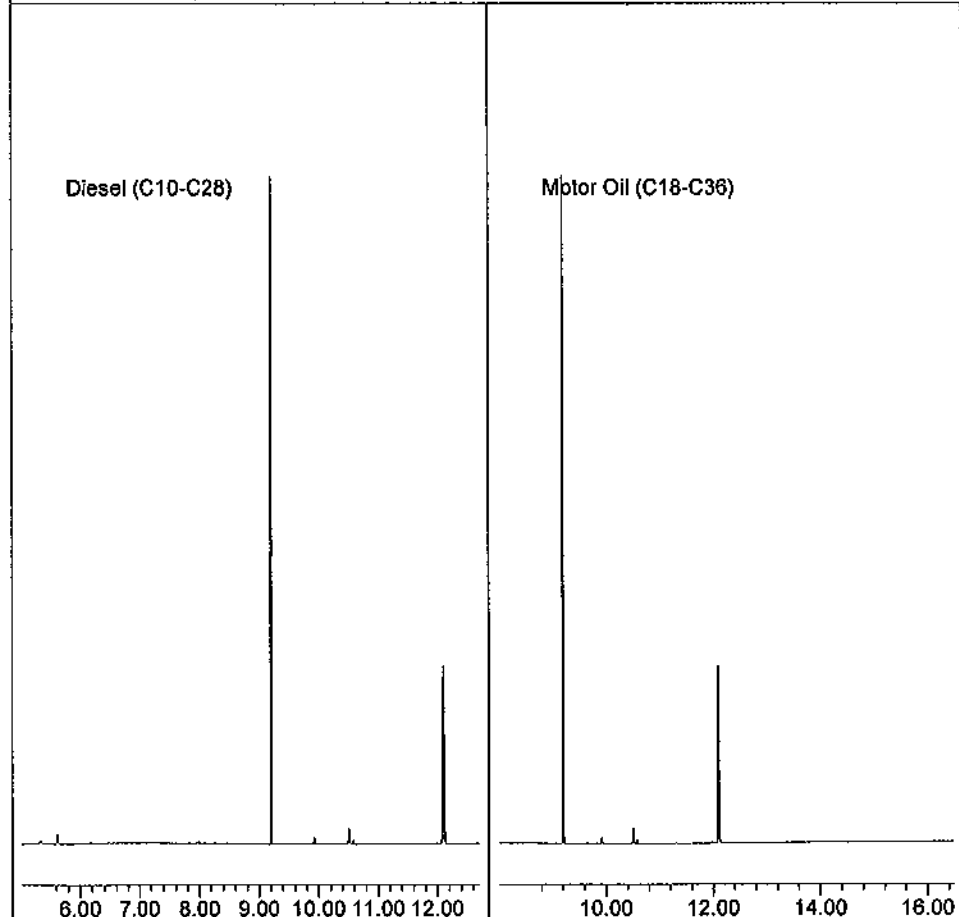
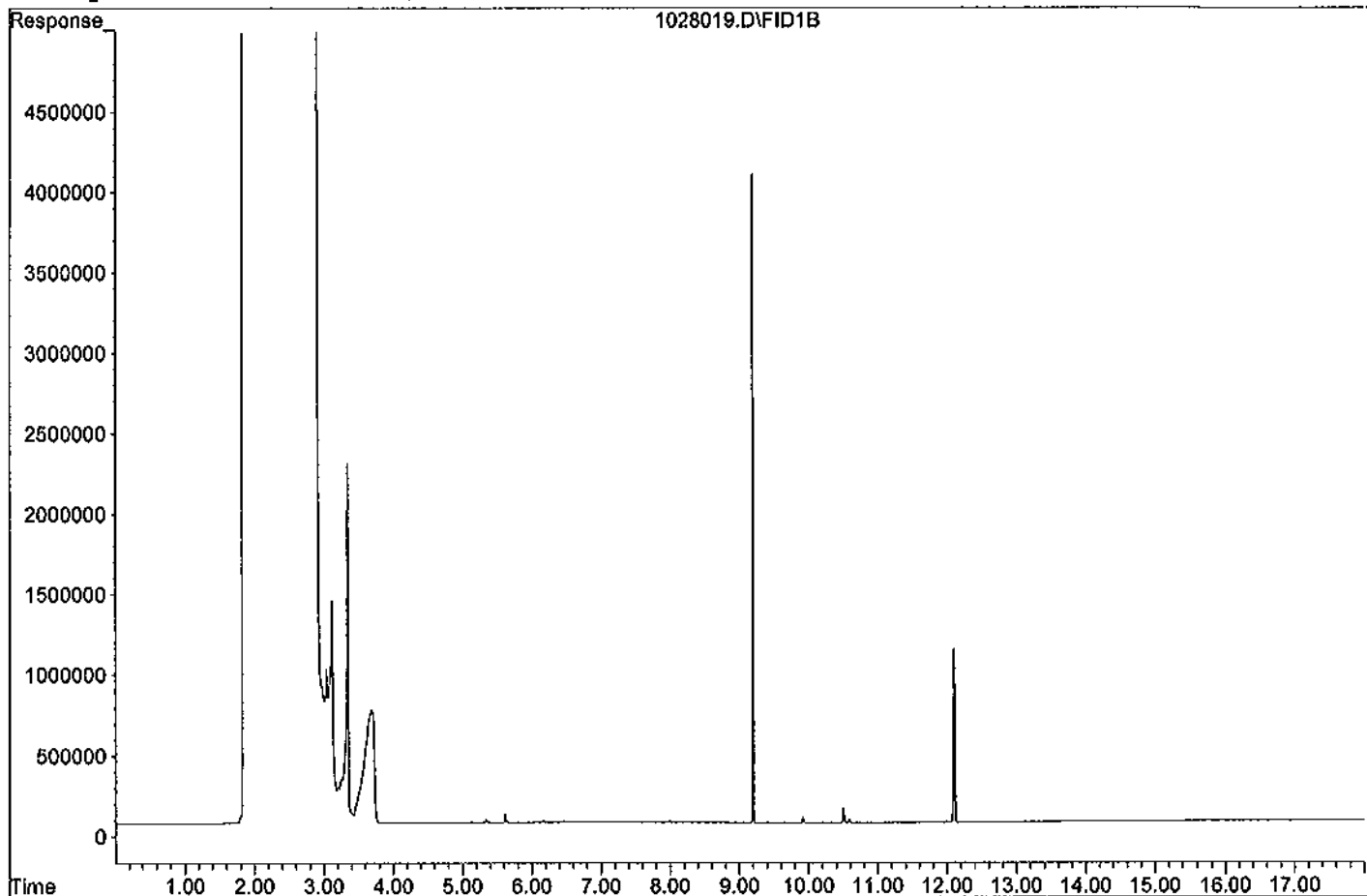
Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

Target Compounds

Data File: G:\APOLLO\DATA\111028\1028019.D

Sample : THC SURR 600/1000



Data File : G:\APOLLO\DATA\111028\1028020.D Vial: 20
 Acq On : 10-28-11 16:38:57 Operator: LAC
 Sample : THC SURR 800/1000 Inst : Apollo
 Misc : Mix(C) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 31 9:01 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

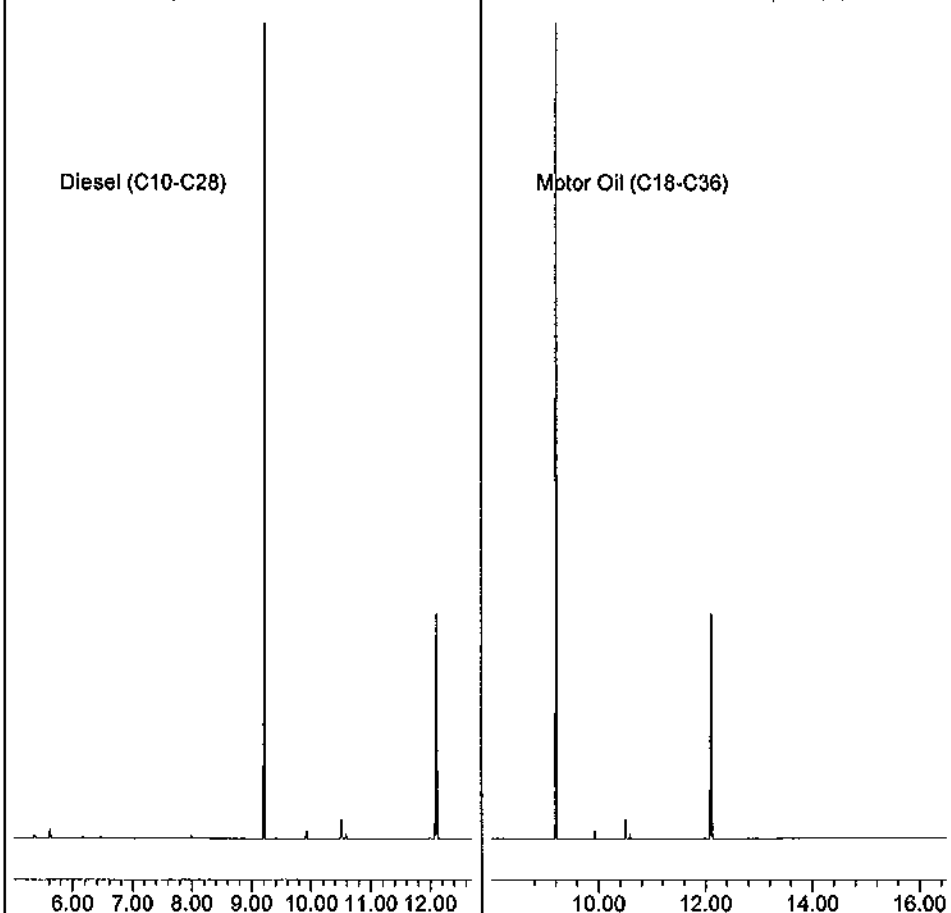
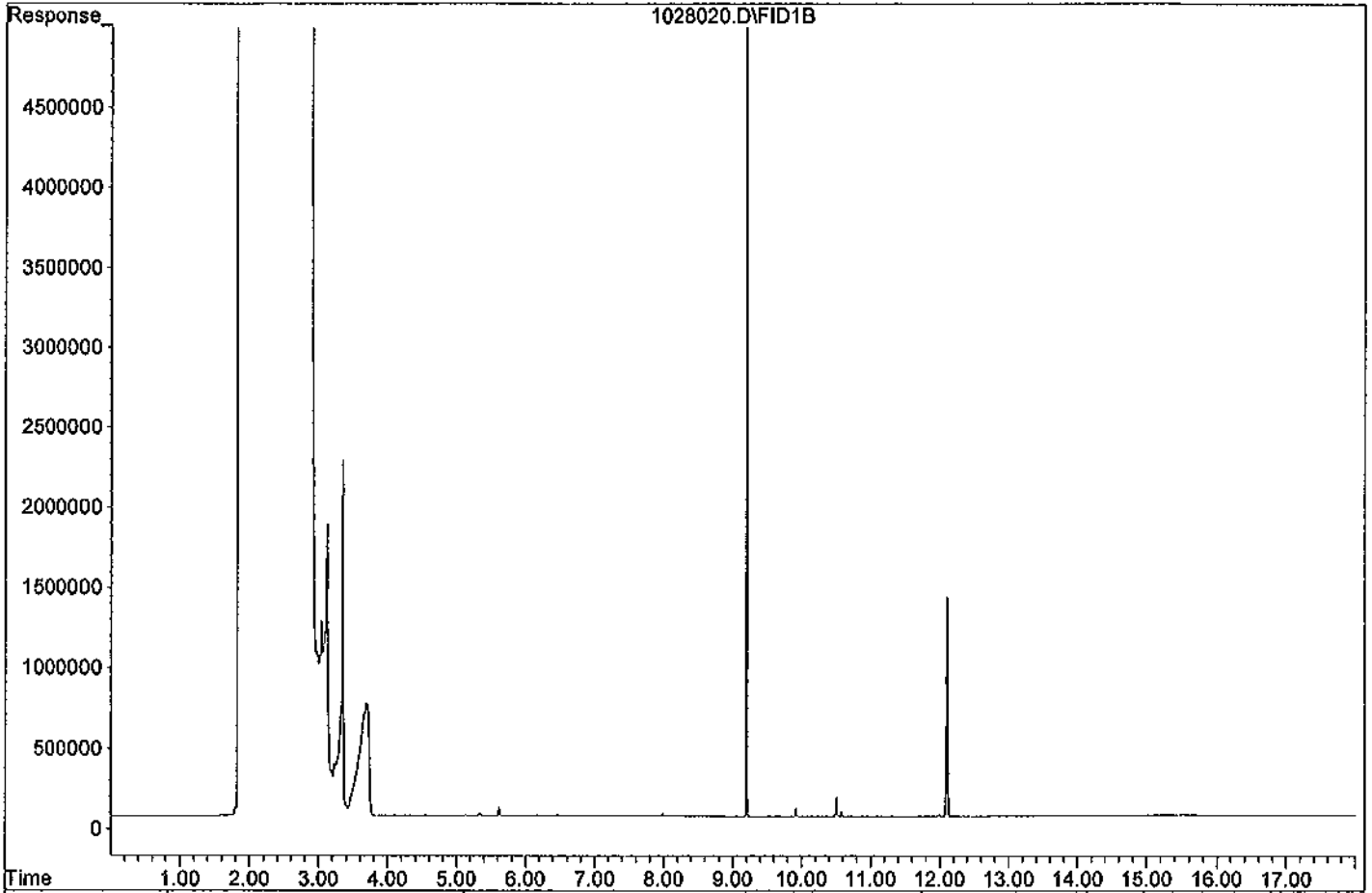
Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\111028\1028020.D
Sample : THC SURR 800/1000



Data File : G:\APOLLO\DATA\111028\1028021.D Vial: 21
 Acq On : 10-28-11 17:03:06 Operator: LAC
 Sample : THC SURR 1000/1000 Inst : Apollo
 Misc : Mix(C) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 31 9:00 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

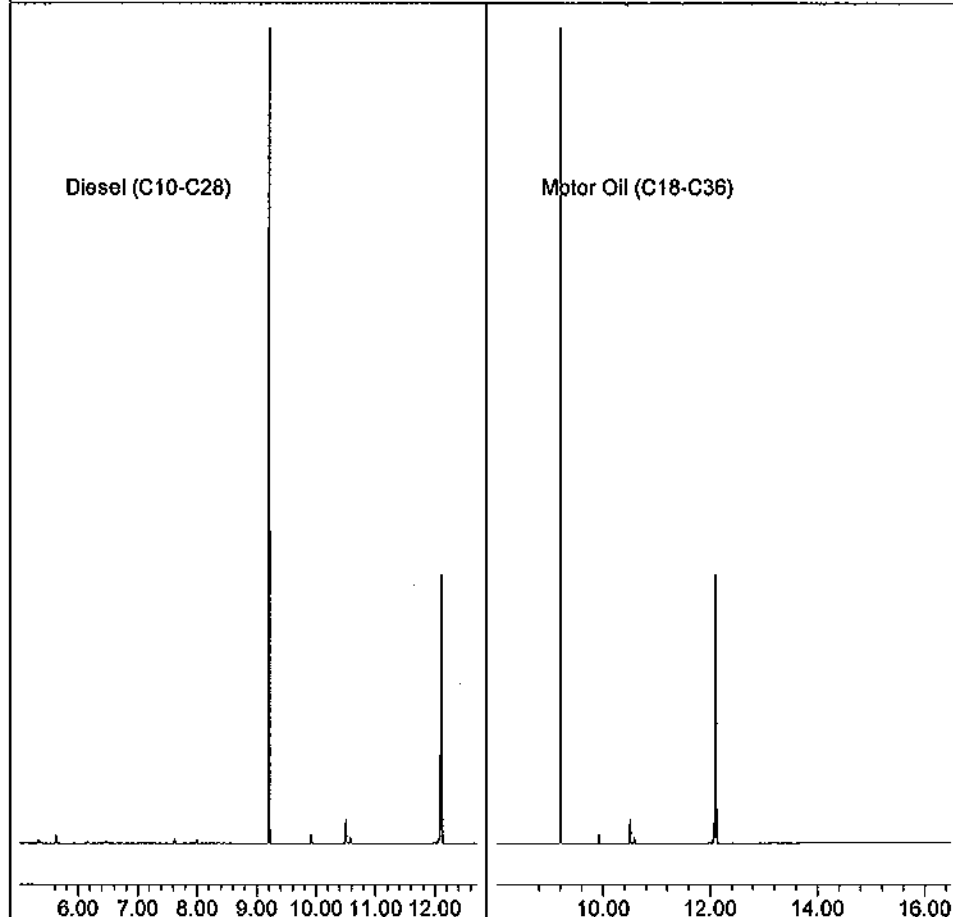
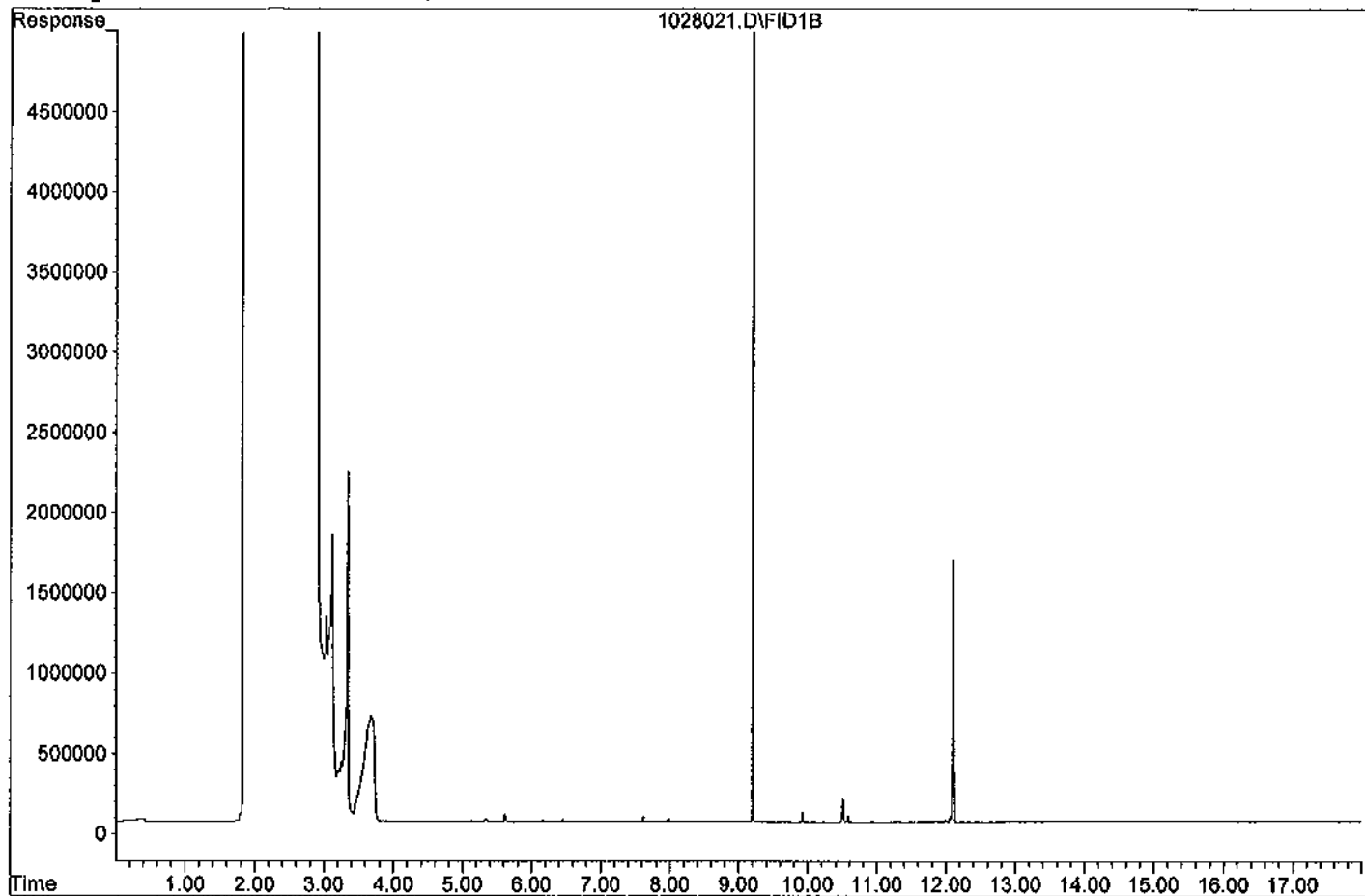
Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

Target Compounds

Data File: G:\APOLLO\DATA\111028\1028021.D

Sample : THC SURR 1000/1000



TPH Extractables
TPH1028

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: 66102
Date Analyzed: 10/28/11
Instrument: Apollo
Initial Cal. Date: 10/28/11
Data File: 1028015.D

		Compound	MEAN	CCRF	%D	%Drift
1	HATM	Diesel (C10-C28)	420946	437681	4.0	HATM
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						

Average

4.0

Data File : G:\APOLLO\DATA\111028\1028015.D Vial: 15
 Acq On : 10-28-11 14:37:14 Operator: LAC
 Sample : DIESEL 2ND SRC 10/28/11 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 28 14:00 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

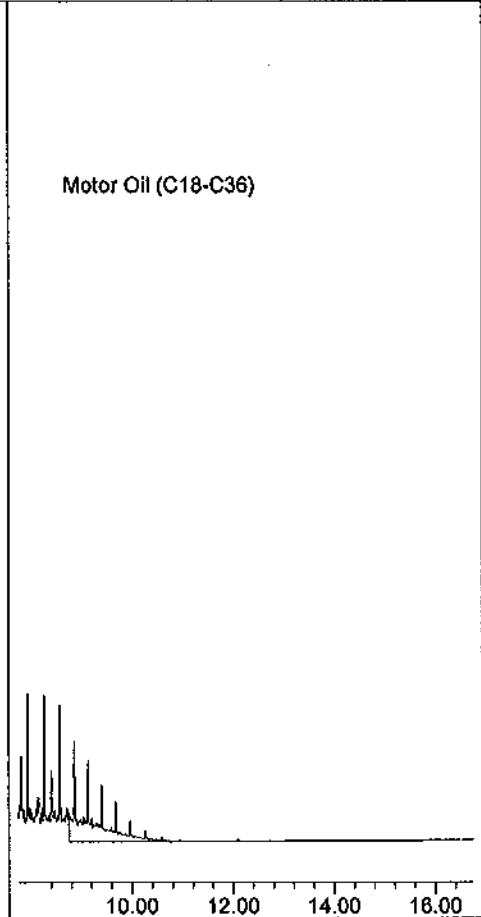
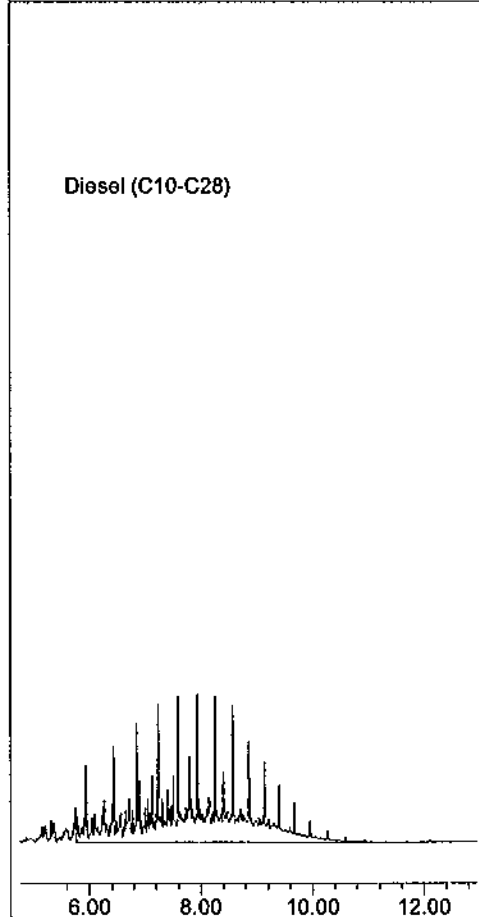
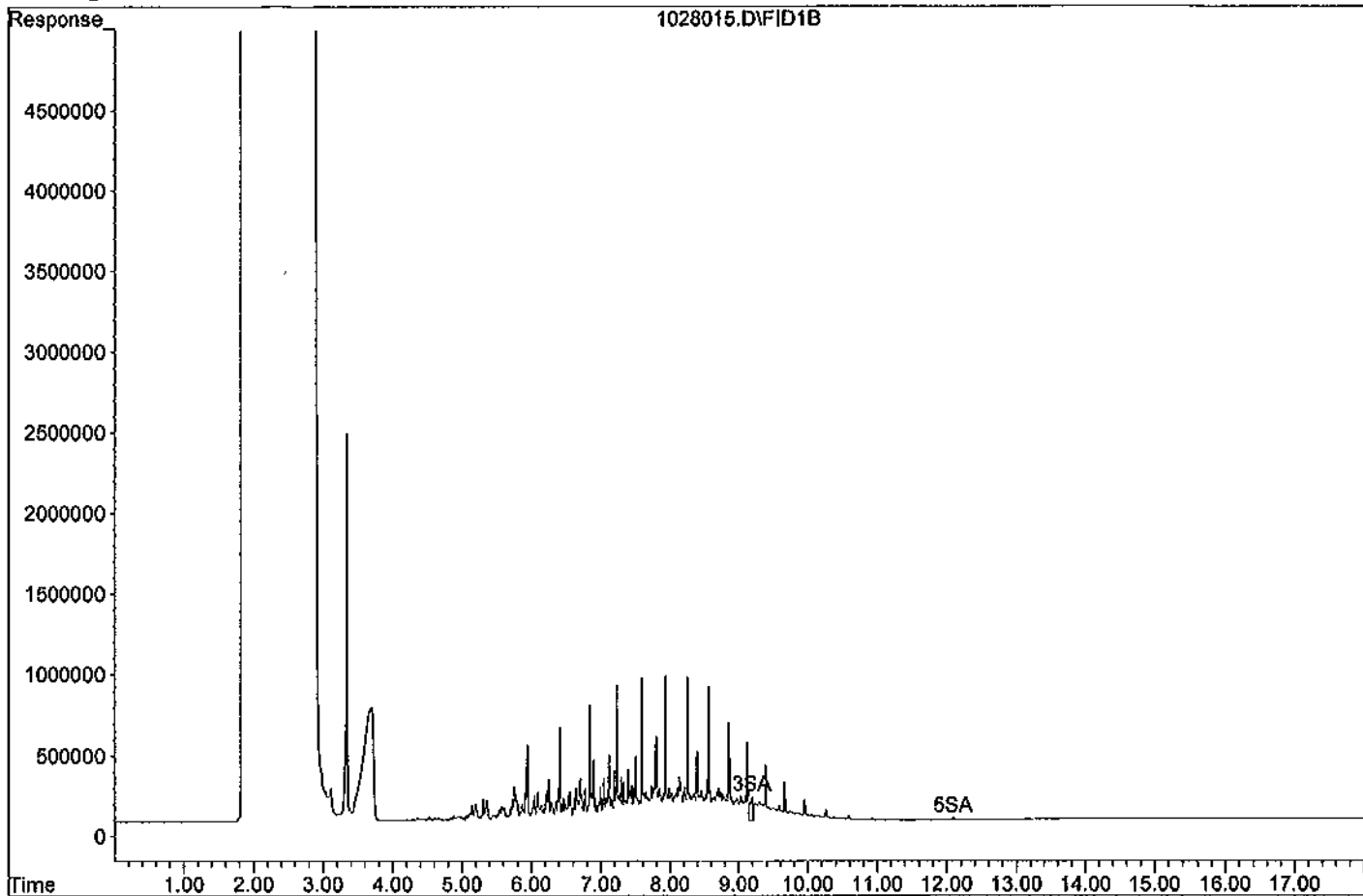
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Not Used(S)	9.20	4372560	4.067 ppb
Surrogate Spike 30.000		Recovery =	13.56%
5) SA Not Used2(S)	12.09	211361	0.427 ppb
Surrogate Spike 30.000		Recovery =	1.42%
Target Compounds			
1) HATM Diesel (C10-C28)	8.86	350144889	415.903 ppb
2) HBTM Motor Oil (C18-C36)	12.25	92370482	254.784 ppb

Data File: G:\APOLLO\DATA\111028\1028015.D

Sample : DIESEL 2ND SRC 10/28/11



TPH Extractables
TPH1028

Form 7
Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: 66102
Date Analyzed: 11/06/11
Instrument: Apollo
Initial Cal. Date: 10/28/11
Data File: 1106003.D

	Compound	MEAN	CCRF	%D	%Drift
1	HATM Diesel (C10-C28)	420946	359274	15	HATM
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			15.0	

Data File : G:\APOLLO\DATA\111106\1106003.D Vial: 3
 Acq On : 11-6-11 16:34:49 Operator: LAC
 Sample : DIESEL 400/1000 10/28/11 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 7 9:16 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

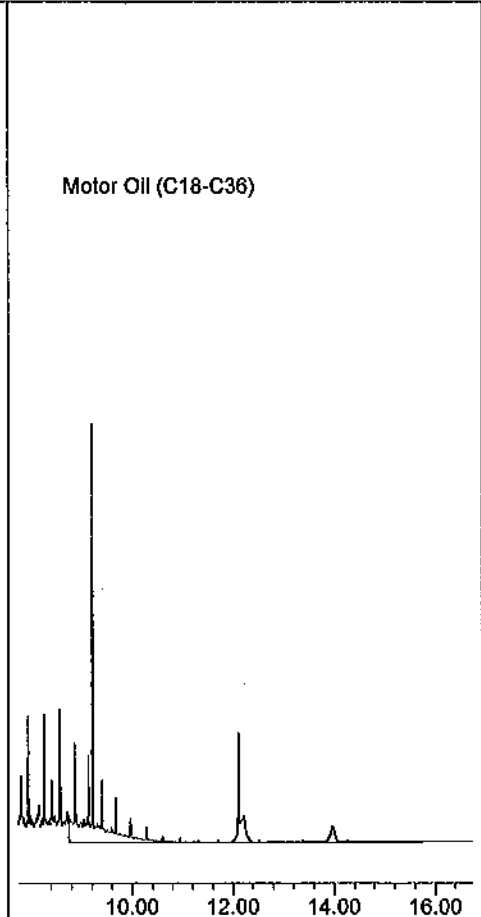
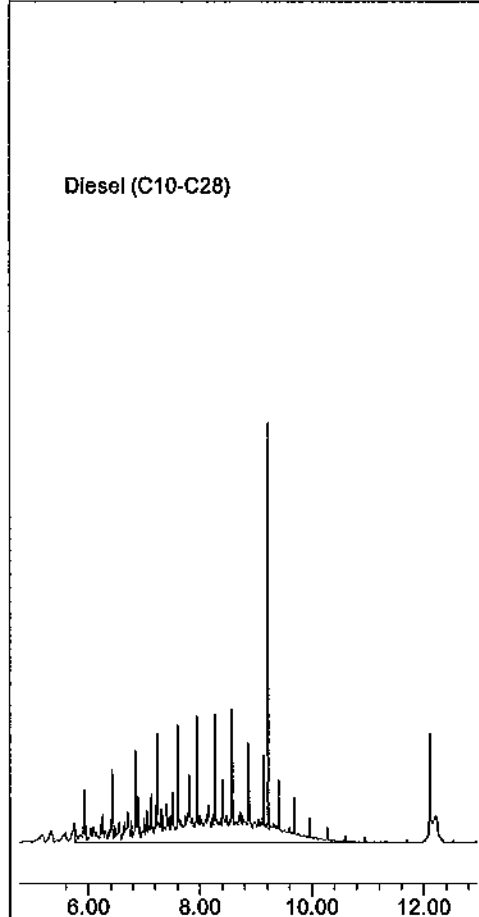
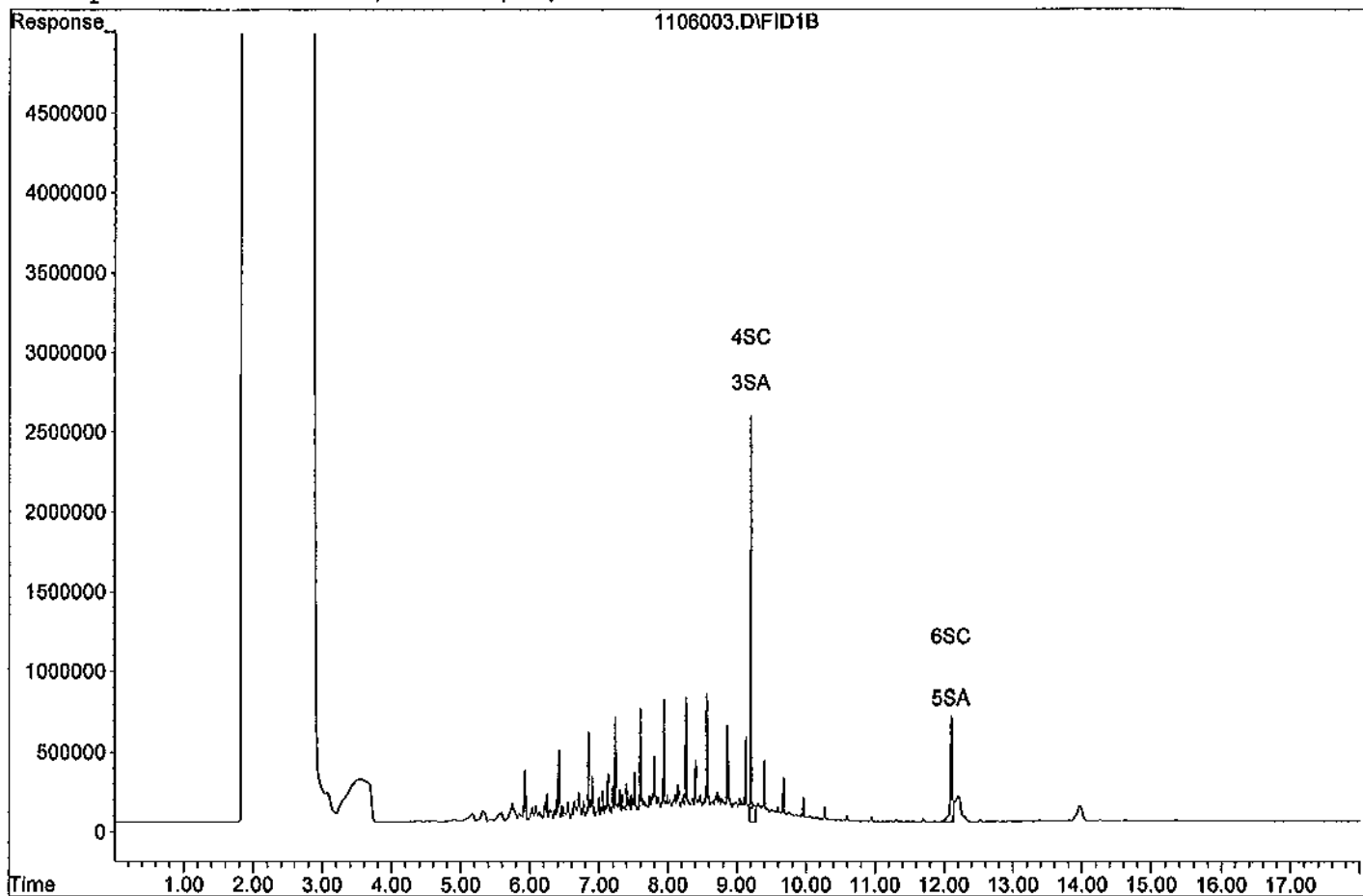
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Not Used(S)	9.21	21346070	19.854 ppb
Surrogate Spike 30.000		Recovery =	66.18%
4) SC Ortho-Terphenyl(S)	9.21	21346070	24.480 ppb
Surrogate Spike 30.000		Recovery =	81.60%
5) SA Not Used2(S)	12.11	11940260	24.100 ppb
Surrogate Spike 30.000		Recovery =	80.33%
6) SC Octacosane(S)	12.11	11940260	25.659 ppb
Surrogate Spike 30.000		Recovery =	85.53%
Target Compounds			
1) HATM Diesel (C10-C28)	8.86	287418867	341.397 ppb
2) HBTM Motor Oil (C18-C36)	12.25	102192727	281.876 ppb

Data File: G:\APOLLO\DATA\111106\1106003.D

Sample : DIESEL 400/1000 10/28/11



TPH Extractables
TPH1028

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: 66102
Date Analyzed: 11/06/11
Instrument: Apollo
Initial Cal. Date: 10/28/11
Data File: 1106017.D

	Compound	MEAN	CCRF	%D	%Drift
1	HATM Diesel (C10-C28)	420946	369827	12	HATM
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			12.0	

Data File : G:\APOLLO\DATA\111106\1106017.D Vial: 17
 Acq On : 11-6-11 22:03:47 Operator: LAC
 Sample : DIESEL 400/1000 11/2/11 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 7 9:17 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

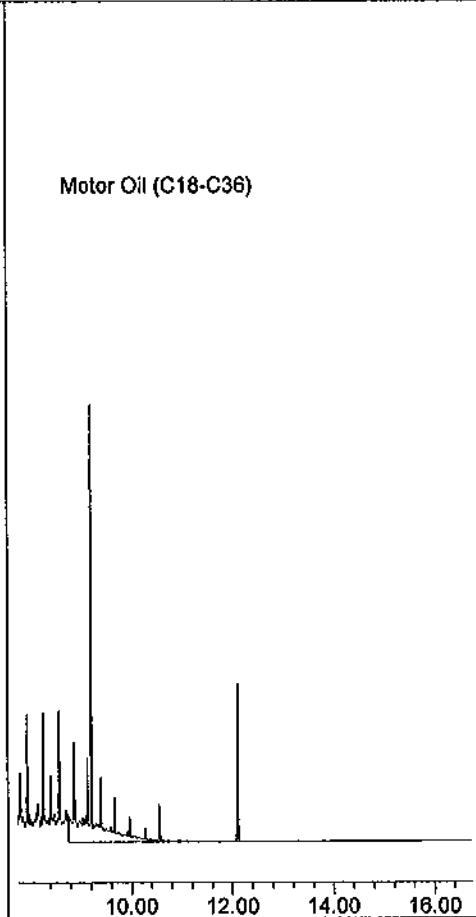
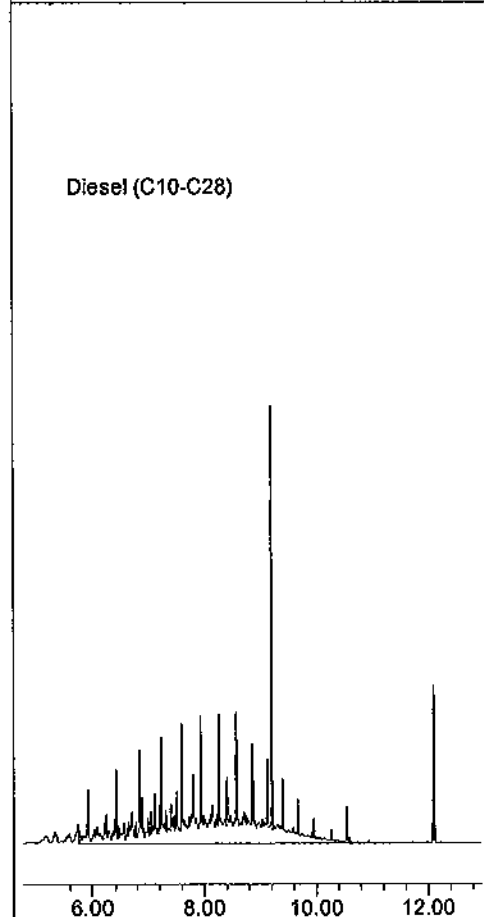
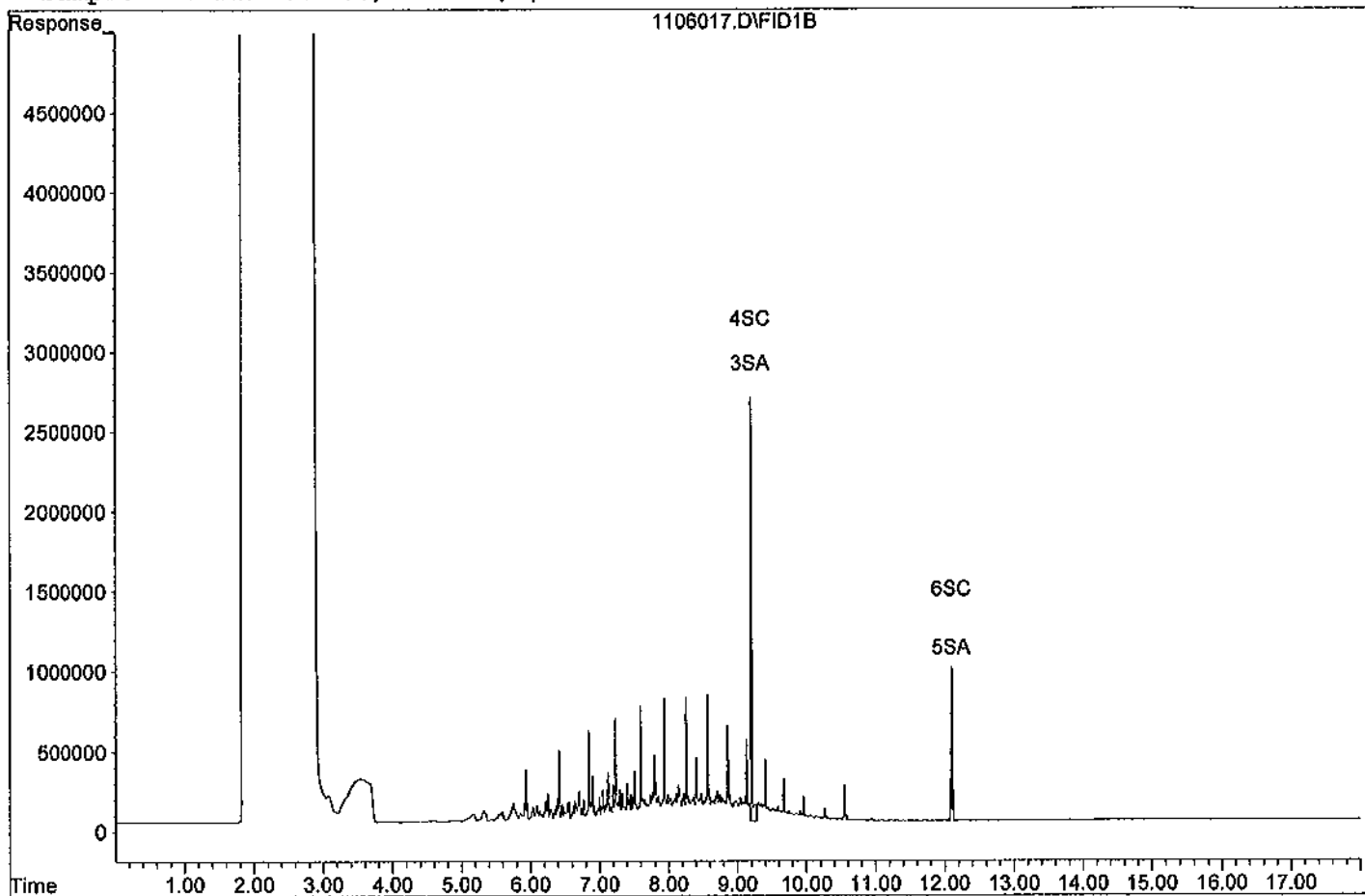
3) SA Not Used(S)	9.21	22135697	20.589 ppb
Surrogate Spike 30.000		Recovery =	68.63%
4) SC Ortho-Terphenyl(S)	9.21	22135697	25.385 ppb
Surrogate Spike 30.000		Recovery =	84.62%
5) SA Not Used2(S)	12.10	13104105	26.450 ppb
Surrogate Spike 30.000		Recovery =	88.17%
6) SC Octacosane(S)	12.10	13104105	28.160 ppb
Surrogate Spike 30.000		Recovery =	93.87%

Target Compounds

1) HATM Diesel (C10-C28)	8.86	295861444	351.425 ppb
2) HBTM Motor Oil (C18-C36)	12.25	88714324	244.699 ppb

Data File: G:\APOLLO\DATA\111106\1106017.D

Sample : DIESEL 400/1000 11/2/11



TPH Extractables
TPH1028

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: 66102

Case No: _____

Date Analyzed: 11/07/11

Matrix: _____

Instrument: Apollo

Initial Cal. Date: 10/28/11

Data File: 1106027.D

	Compound	MEAN	CCRF	%D	%Drift
1	HATM Diesel (C10-C28)	420946	339247	19	HATM
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			19.0	

Data File : G:\APOLLO\DATA\111106\1106027.D Vial: 27
 Acq On : 11-7-11 1:56:08 Operator: LAC
 Sample : DIESEL 400/1000 11/2/11 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 7 9:17 2011 Quant Results File: TPH1028.RES

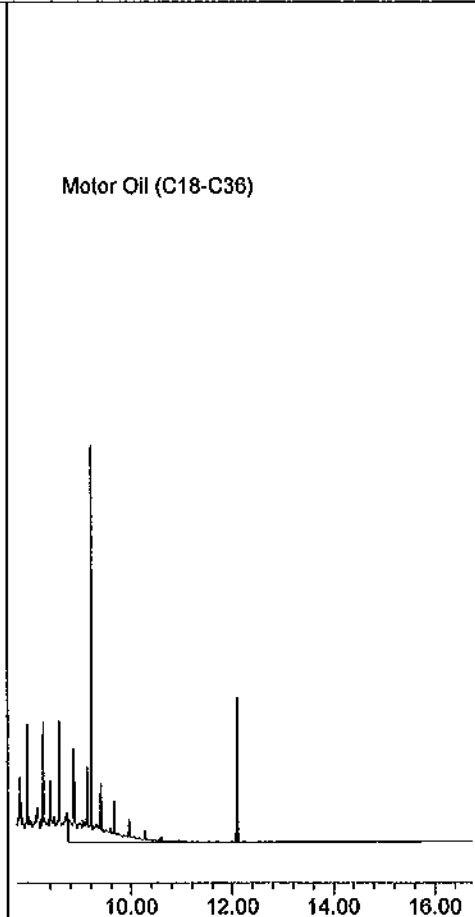
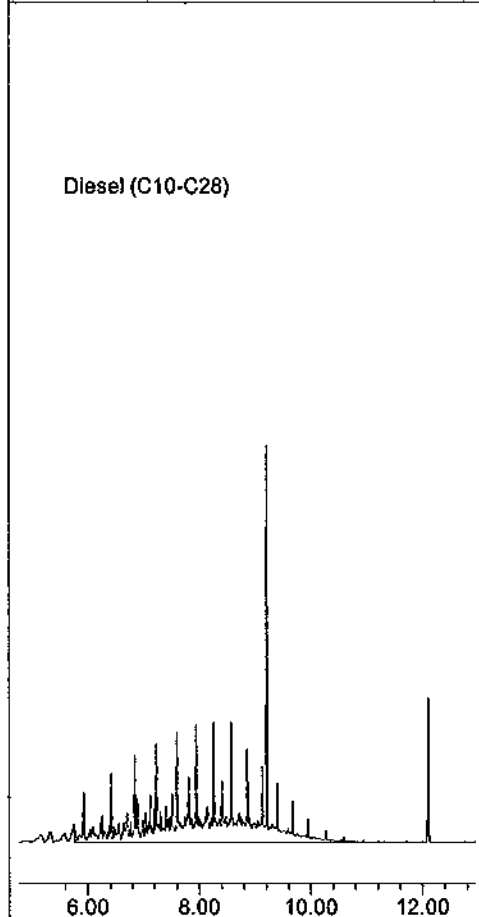
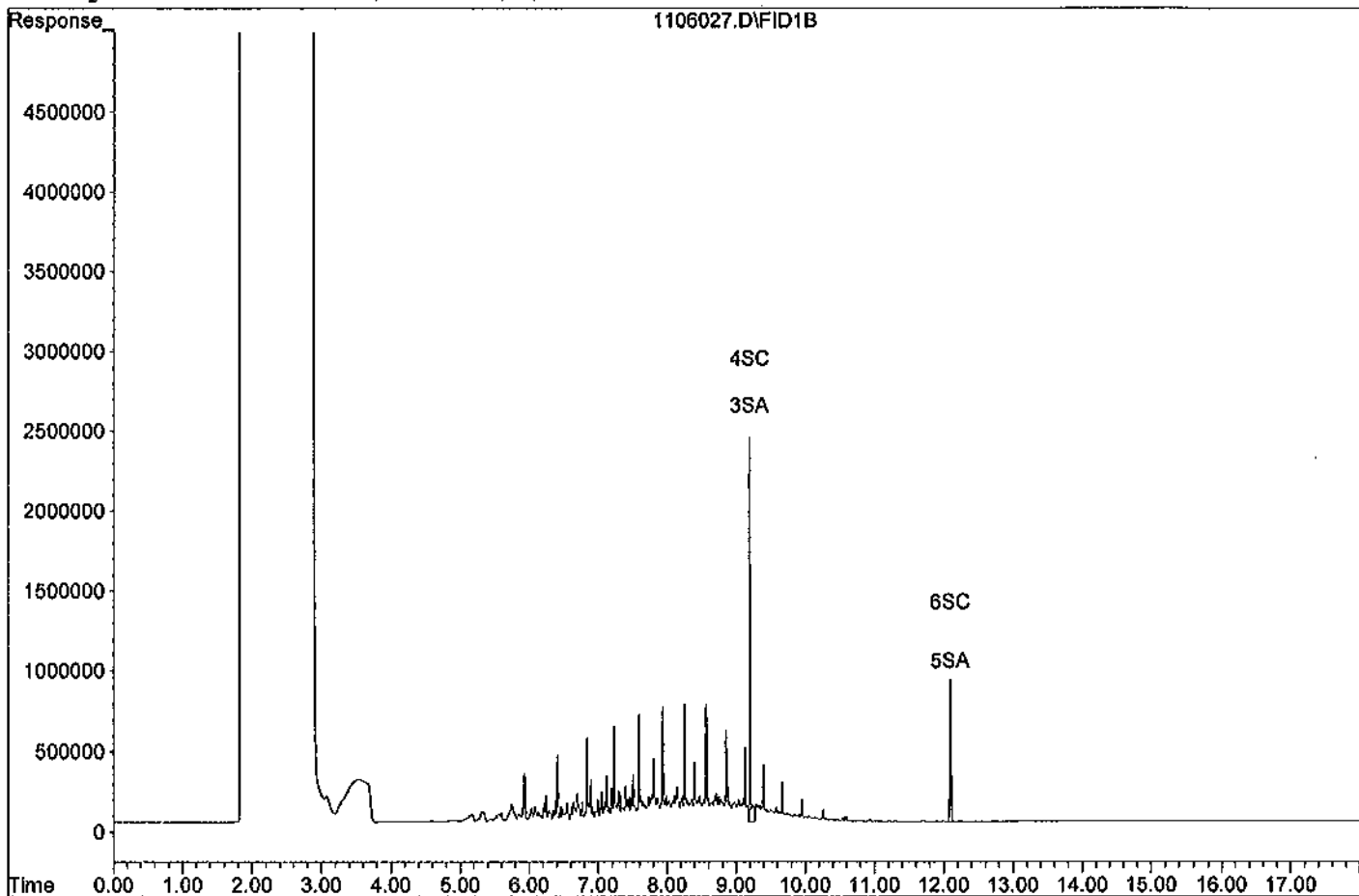
Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.21	20565649	19.129 ppb
Surrogate Spike 30.000		Recovery =	63.76%
4) SC Ortho-Terphenyl(S)	9.21	20565649	23.585 ppb
Surrogate Spike 30.000		Recovery =	78.62%
5) SA Not Used2(S)	12.10	11836262	23.890 ppb
Surrogate Spike 30.000		Recovery =	79.63%
6) SC Octacosane(S)	12.10	11836262	25.435 ppb
Surrogate Spike 30.000		Recovery =	84.78%
Target Compounds			
1) HATM Diesel (C10-C28)	8.86	271397500	322.367 ppb
2) HBTM Motor Oil (C18-C36)	12.25	79648905	219.694 ppb

Data File: G:\APOLLO\DATA\111106\1106027.D

Sample : DIESEL, 400/1000 11/2/11



TPH Extractables
TPH8S15

Form 6
Initial Calibration

Lab Name: APPL, Inc. _____

SDG No: 66102 _____

Case No: _____

Initial Cal. Date: 11/08/11 _____

Matrix: _____

Instrument: Apollo _____

Initials: LAC _____

1115021.D 1115022.D 1115023.D 1115024.D 1115025.D 1115026.D

	Compound	1	2	3	4	5	6					Avg	%RSD		
1	HATML Diesel (C10-C28)	613132	243101	243681	243678	244044	245201					305473	49	HATML	1.000
2	HBTM Motor Oil (C18-C36)	140437	99632	104190	111186	115800	125373					116103	13	HBTM	
3	SA Not Used(S)	302444	320737	318016	323983	383528	387566					339379	11	SA	
4	SC Ortho-Terphenyl(S)	356915	320797	300581	304073	324333	307361					319010	6.5	SC	
5	SA Not Used2(S)		81698	75651	78041	78921	79877					78538	2.8	SA	
6	SC Octacosane(S)		121445	115156	113245	126484	120297					119325	4.4	SC	
7															
8															
9															
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35															

2.4787102

Data File : G:\APOLLO\DATA\111108\1108005.D Vial: 5
 Acq On : 11-8-11 15:50:59 Operator: LAC
 Sample : DIESEL 100/1000 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 9:53 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 17 09:41:49 2011
 Response via : Multiple Level Calibration

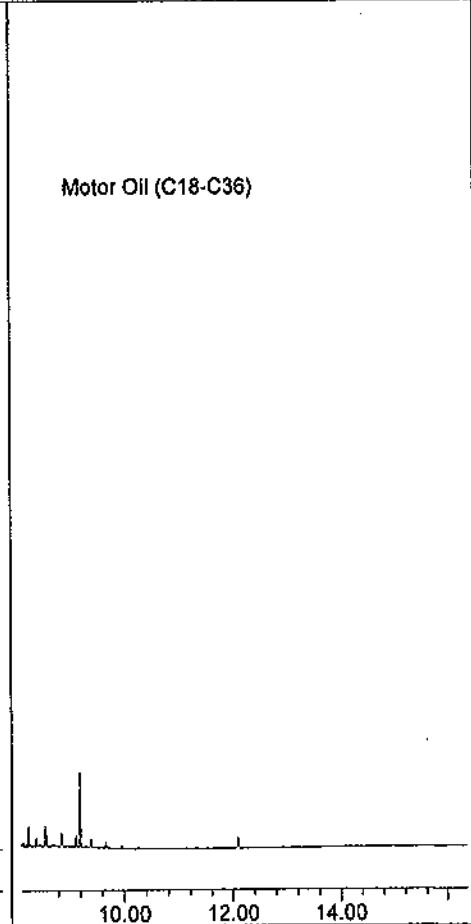
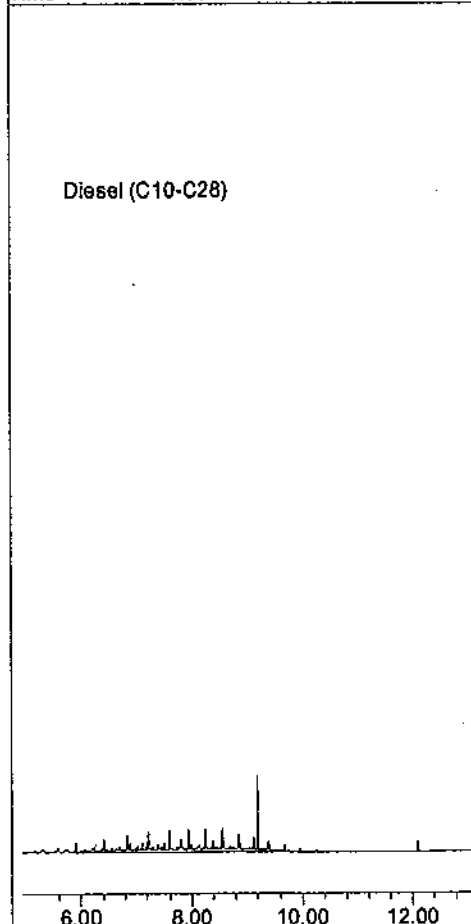
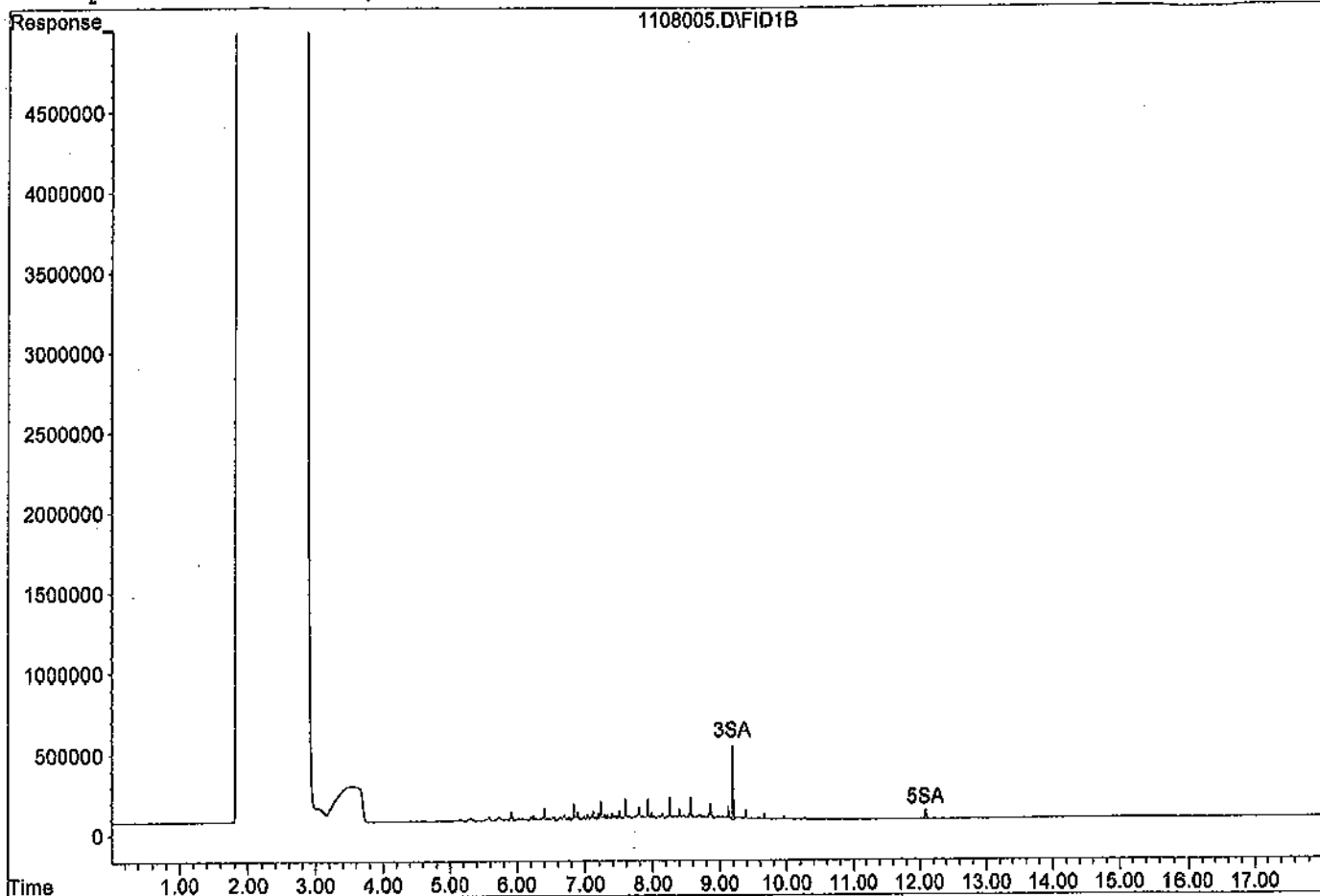
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Not Used(S)	9.20	3207373	3.154 ppb
Surrogate Spike 30.000		Recovery =	10.51%
5) SA Not Used2(S)	12.09	816983	2.773 ppb
Surrogate Spike 30.000		Recovery =	9.24%
Target Compounds			
1) HATM Diesel (C10-C28)	9.01	48620150	767.290 ppb

Data File: G:\APOLLO\DATA\111108\1108005.D

Sample : DIESEL 100/1000



Data File : G:\APOLLO\DATA\111108\1108006.D Vial: 6
 Acq On : 11-8-11 16:14:36 Operator: LAC
 Sample : DIESEL 400/1000 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 30 11:52 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111108\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Wed Nov 30 11:52:46 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

3) SA Not Used(S)	9.20	12720627	18.741 ppb
Surrogate Spike 30.000		Recovery =	62.47%
4) SC Ortho-Terphenyl(S)	9.20	12720627	19.938 ppb
Surrogate Spike 30.000		Recovery =	66.46%
5) SA Not Used2(S)	12.09	3026041	19.192 ppb
Surrogate Spike 30.000		Recovery =	63.97%
6) SC Octacosane(S)	12.09	3026041	12.960 ppb
Surrogate Spike 30.000		Recovery =	43.20%

Target Compounds

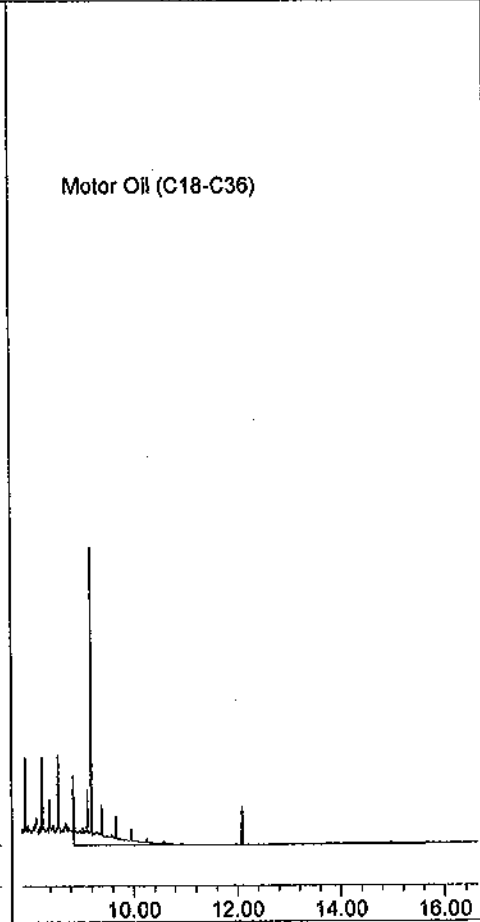
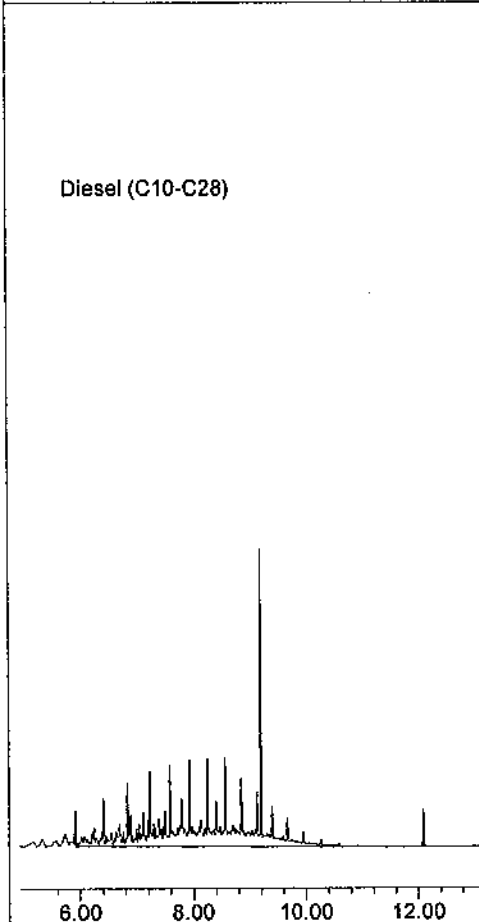
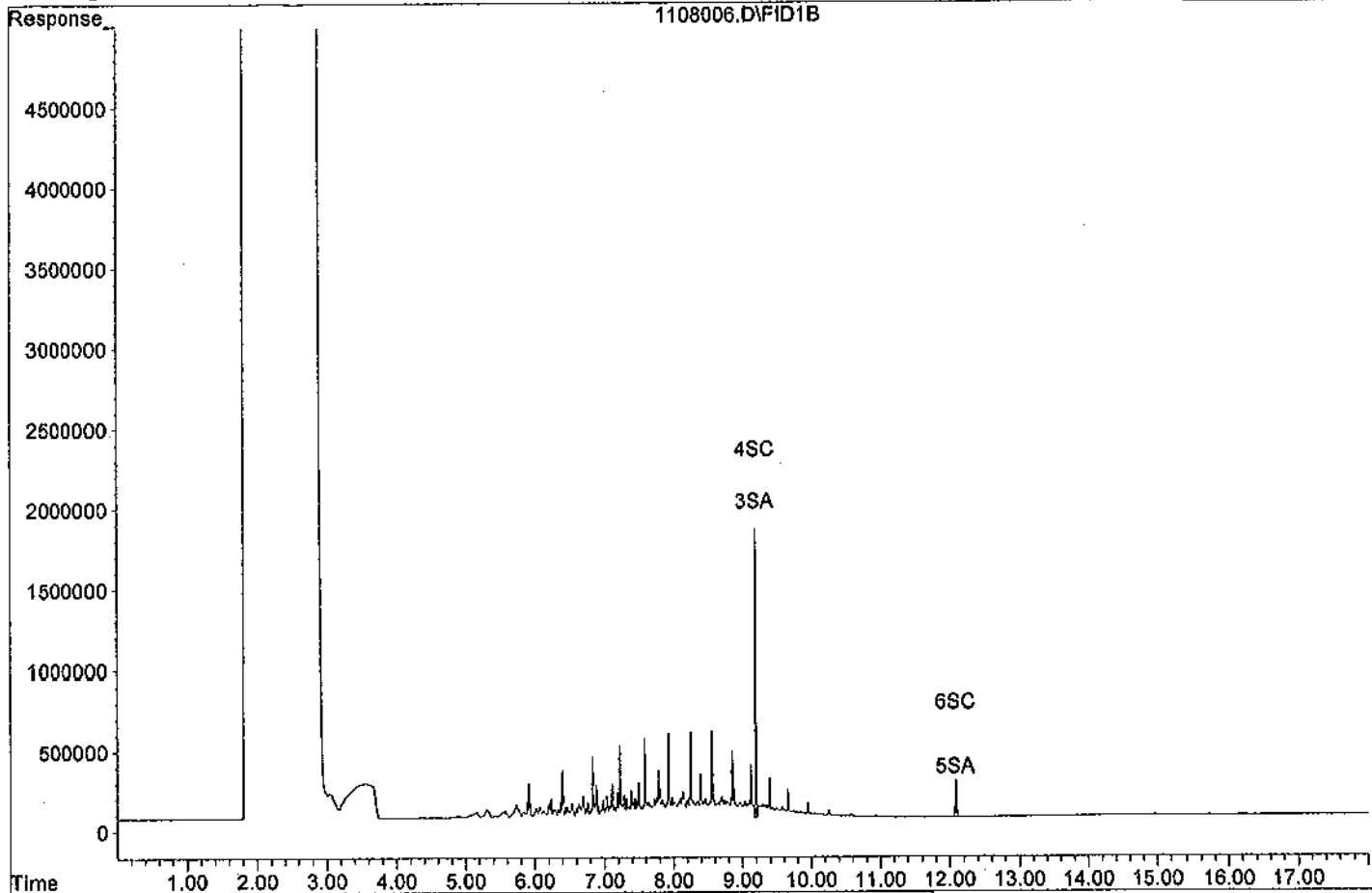
1) HATM Diesel (C10-C28)	9.01	194945056	395.862 ppb
2) HBTM Motor Oil (C18-C36)	12.24	62241854	268.046 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\111108\1108006.D

Sample : DIESEL 400/1000

1108006.D\FID1B



Data File : G:\APOLLO\DATA\111108\1108007.D Vial: 7
 Acq On : 11-8-11 16:38:14 Operator: LAC
 Sample : DIESEL 600/1000 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 30 11:53 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111108\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Wed Nov 30 11:52:46 2011
 Response via : Multiple Level Calibration

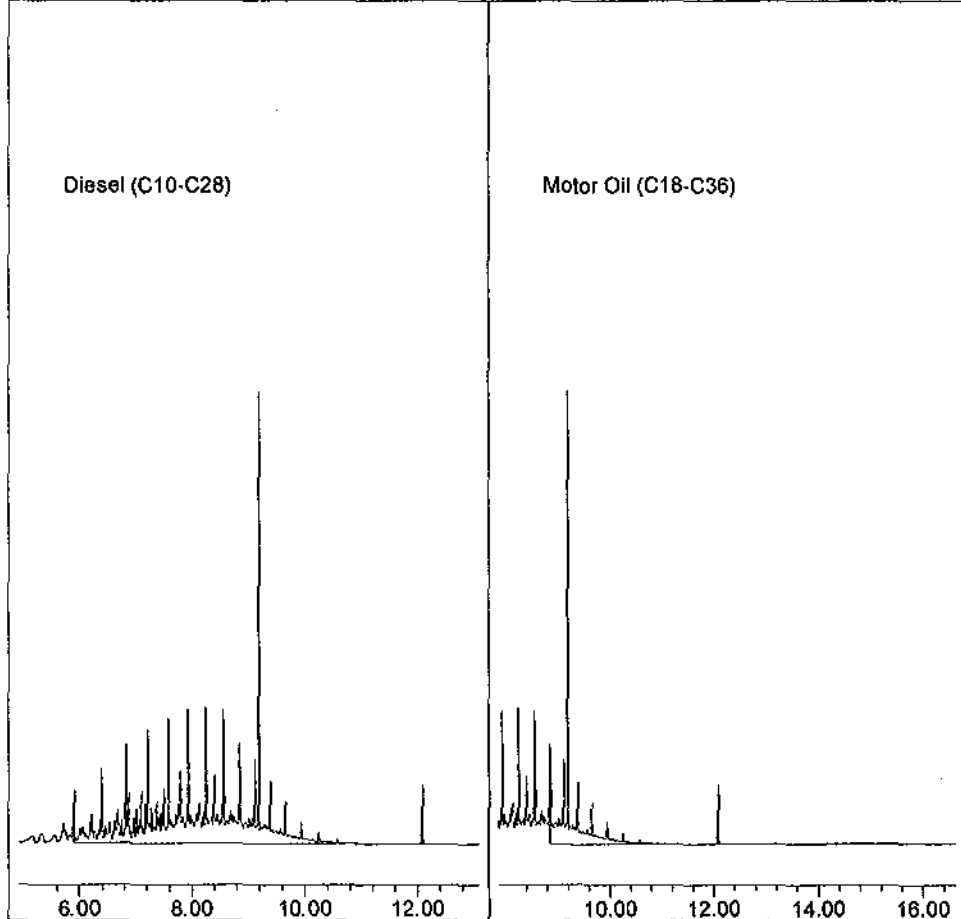
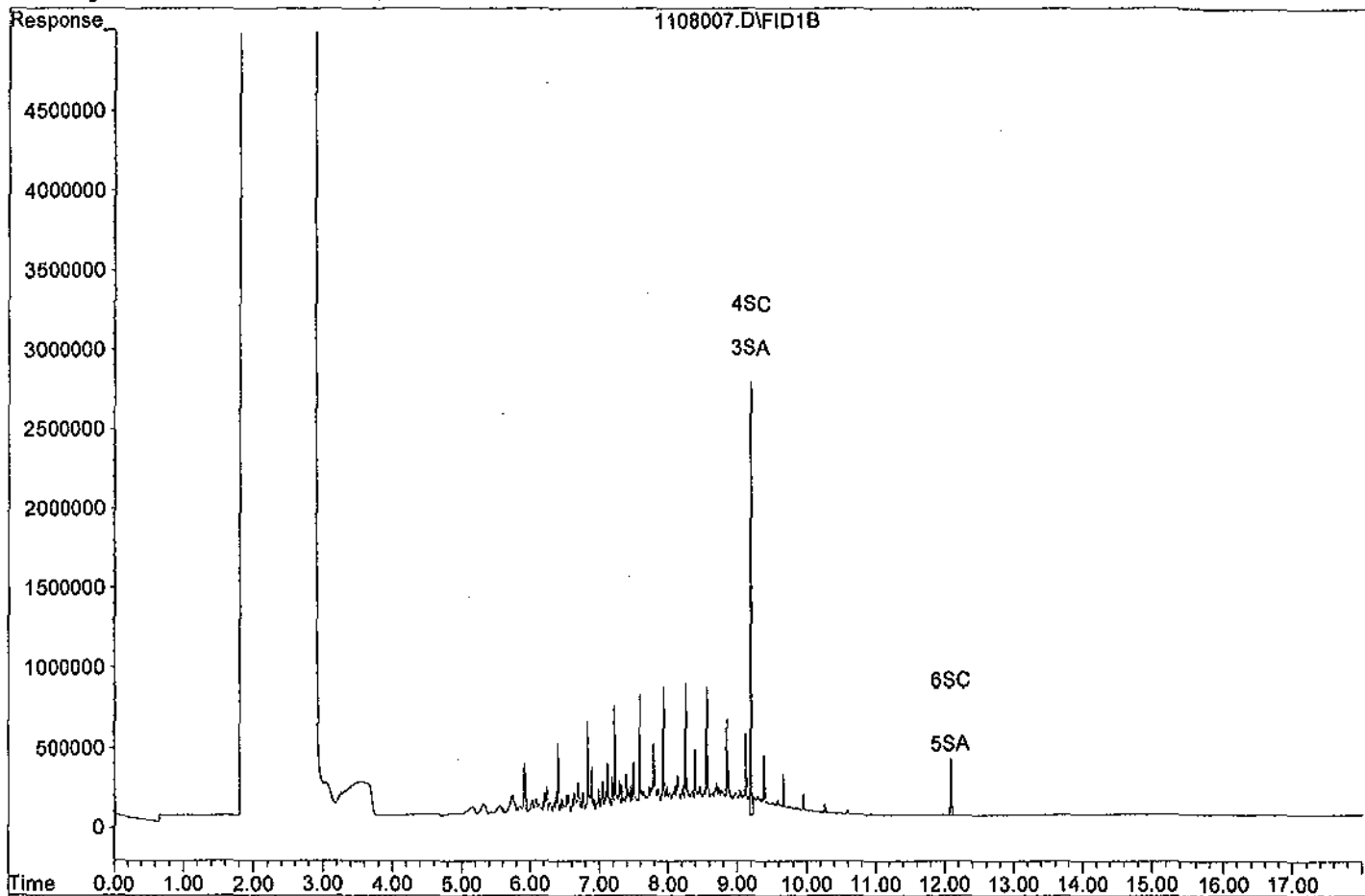
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Not Used(S)	9.20	19438997	28.639 ppb
Surrogate Spike 30.000		Recovery =	95.46%
4) SC Ortho-Terphenyl(S)	9.20	19438997	30.468 ppb
Surrogate Spike 30.000		Recovery =	101.56%
5) SA Not Used2(S)	12.09	4682445	29.697 ppb
Surrogate Spike 30.000		Recovery =	98.99%
6) SC Octacosane(S)	12.09	4682445	20.054 ppb
Surrogate Spike 30.000		Recovery =	66.85%
Target Compounds			
1) HATM Diesel (C10-C28)	9.01	292413883	596.788 ppb
2) HBTM Motor Oil (C18-C36)	12.24	77206924	332.493 ppb

Data File: G:\APOLLO\DATA\111108\1108007.D

Sample : DIESEL 600/1000



Data File : G:\APOLLO\DATA\111108\1108008.D Vial: 8
 Acq On : 11-8-11 17:01:53 Operator: LAC
 Sample : DIESEL 800/1000 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 30 11:53 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111108\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Wed Nov 30 11:52:46 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DE-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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 System Monitoring Compounds

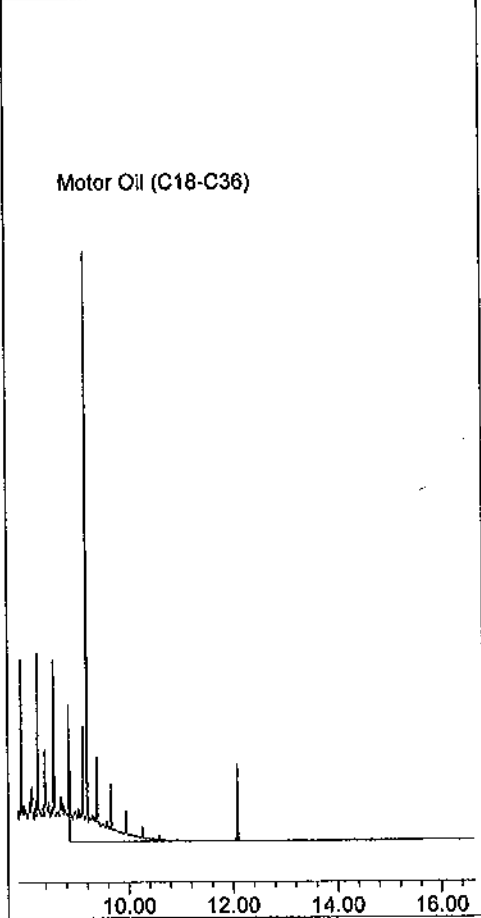
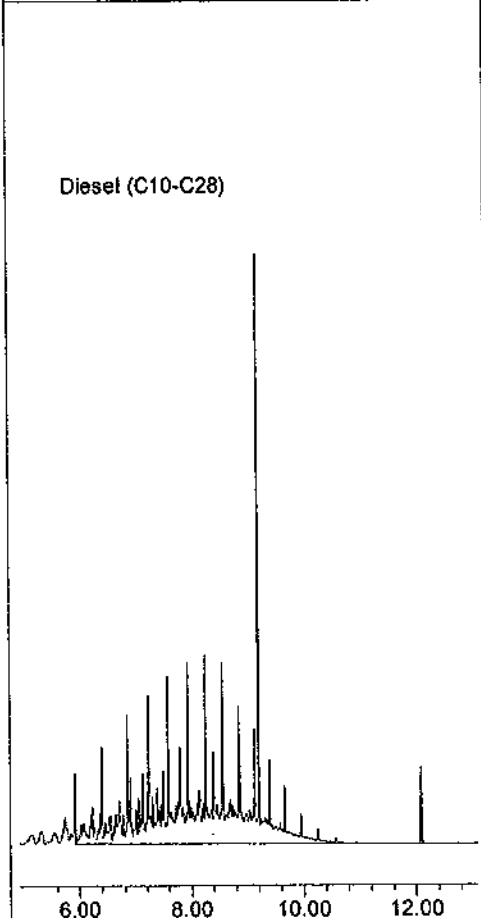
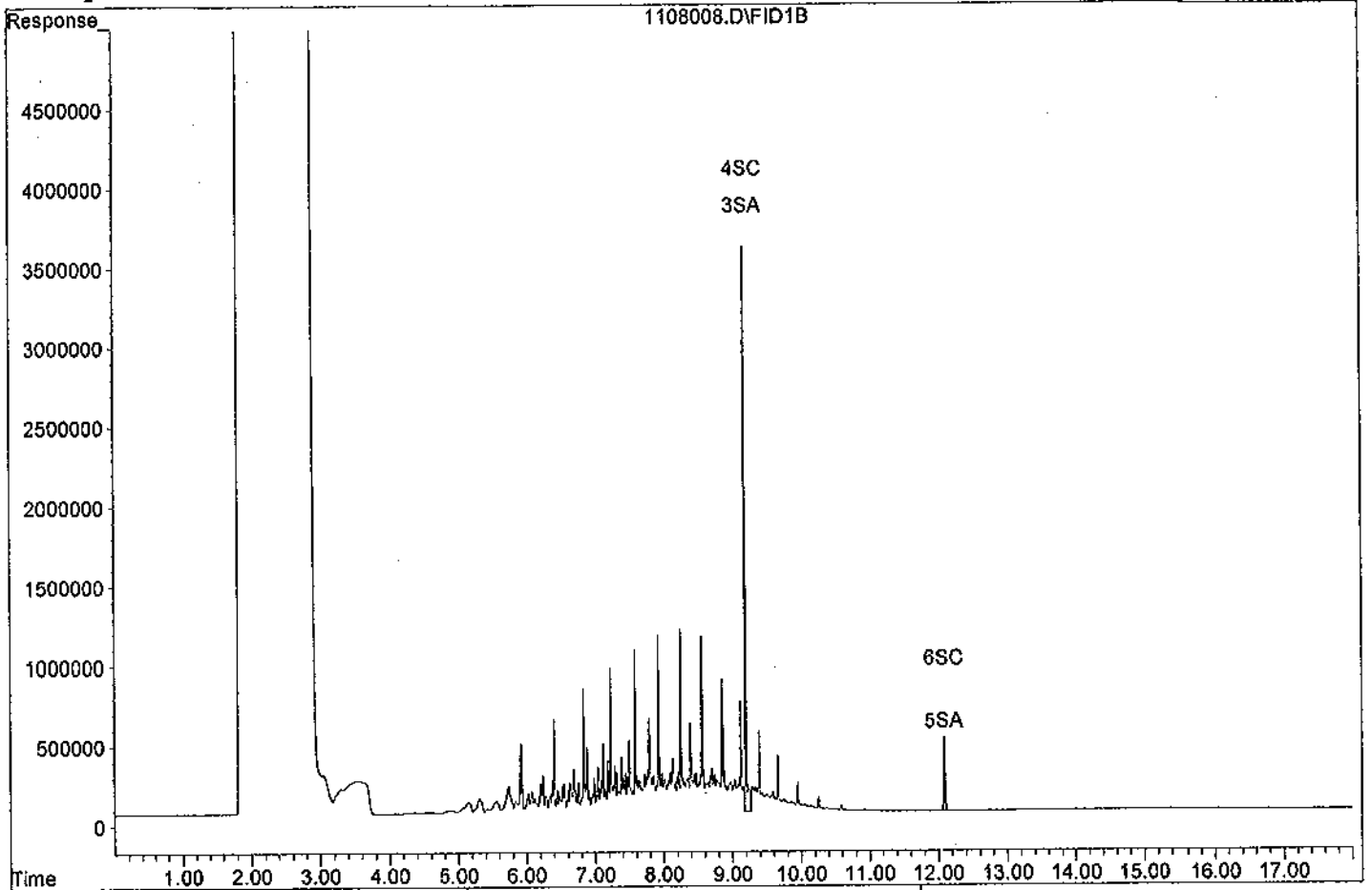
3) SA Not Used(S)	9.20	30682231	45.203 ppb
Surrogate Spike 30.000		Recovery =	150.68%
4) SC Ortho-Terphenyl(S)	9.20	30682231	48.090 ppb
Surrogate Spike 30.000		Recovery =	160.30%
5) SA Not Used2(S)	12.09	6313667	40.042 ppb
Surrogate Spike 30.000		Recovery =	133.47%
6) SC Octacosane(S)	12.09	6313667	27.041 ppb
Surrogate Spike 30.000		Recovery =	90.14%

Target Compounds

1) HATM Diesel (C10-C28)	9.01	390470225	798.924 ppb
2) HBTM Motor Oil (C18-C36)	12.24	99027136	426.462 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\111108\1108008.D
Sample : DIESEL 800/1000



Data File : G:\APOLLO\DATA\111108\1108009.D Vial: 9
 Acq On : 11-8-11 17:25:32 Operator: LAC
 Sample : DIESEL 1000/1000 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 30 11:53 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111108\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Wed Nov 30 11:52:46 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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 System Monitoring Compounds

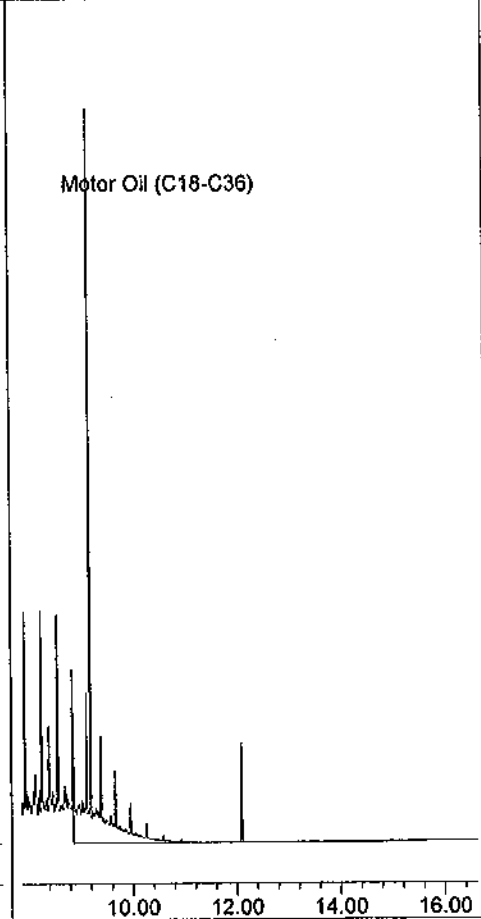
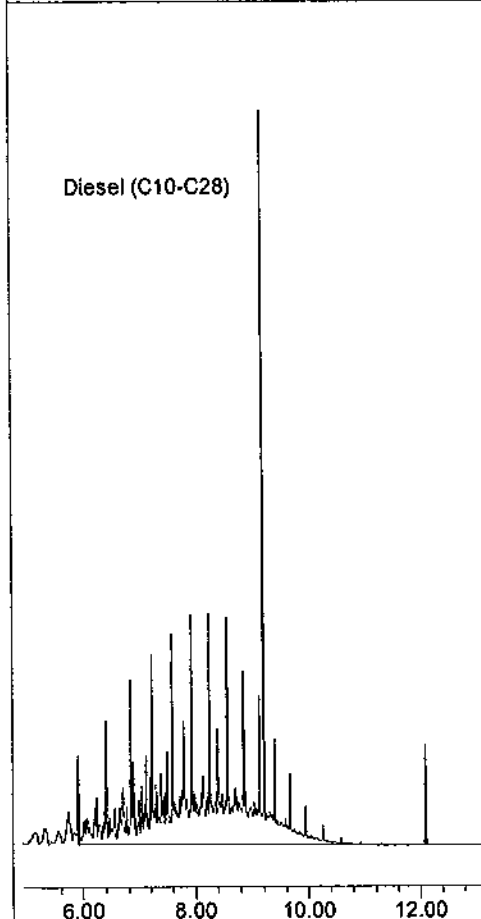
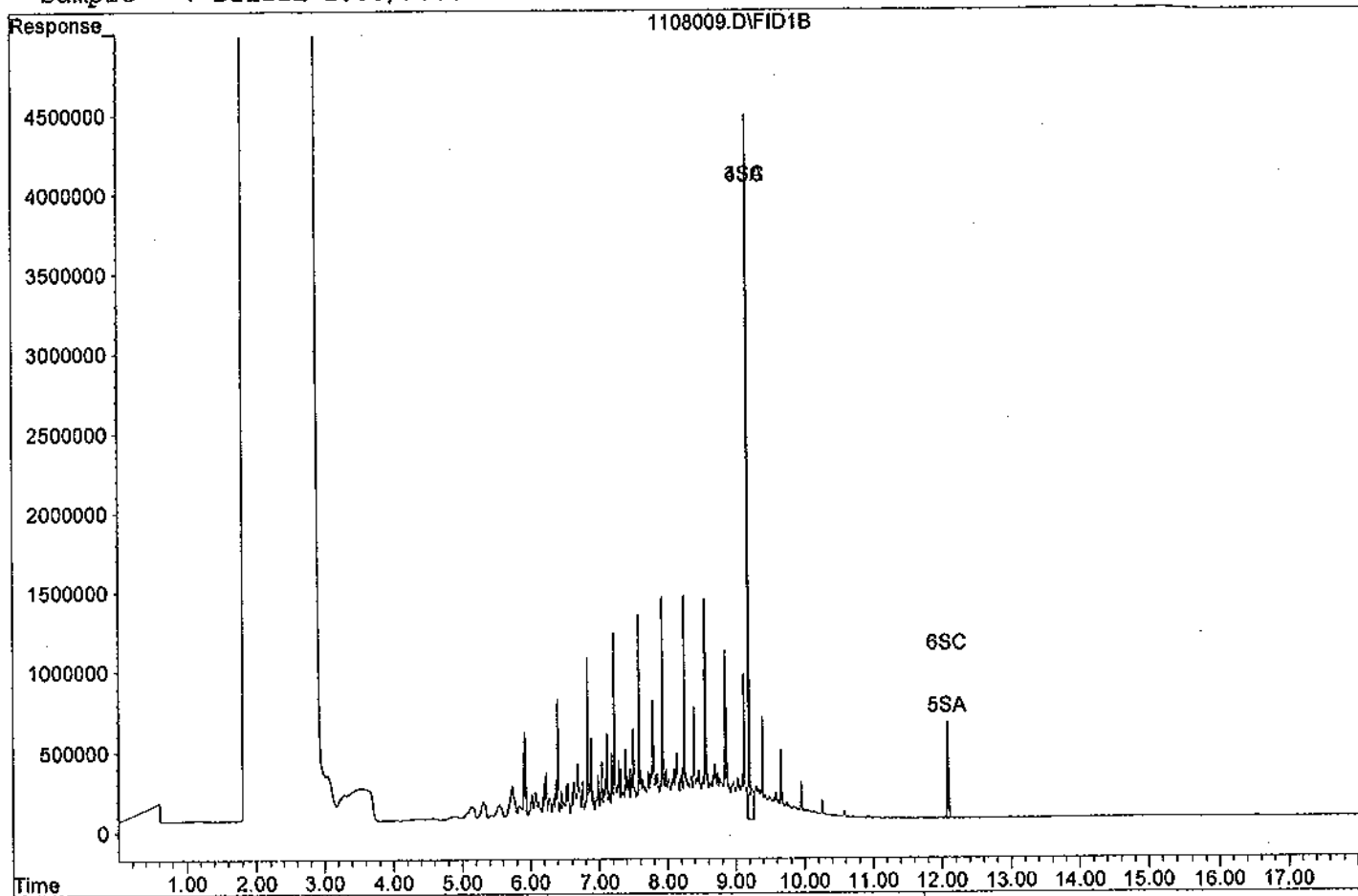
3) SA Not Used(S)	9.20	38756601	57.099 ppb
Surrogate Spike 30.000		Recovery =	190.33%
4) SC Ortho-Terphenyl(S)	9.20	38756601	60.745 ppb
Surrogate Spike 30.000		Recovery =	202.48%
5) SA Not Used2(S)	12.09	7987688	50.659 ppb
Surrogate Spike 30.000		Recovery =	168.86%
6) SC Octacosane(S)	12.09	7987688	34.210 ppb
Surrogate Spike 30.000		Recovery =	114.03%

Target Compounds

1) HATM Diesel (C10-C28)	9.01	490402243	1004.928 ppb
2) HBTM Motor Oil (C18-C36)	12.24	123592393	532.253 ppb

Data File: G:\APOLLO\DATA\111108\1108009.D

Sample : DIESEL 1000/1000



Data File : G:\APOLLO\DATA\111108\1108011.D Vial: 11
 Acq On : 11-8-11 18:12:45 Operator: LAC
 Sample : MOTOR OIL 50/1000 11/8/11 Inst : Apollo
 Misc : Mix(B) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 9:53 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 17 09:41:49 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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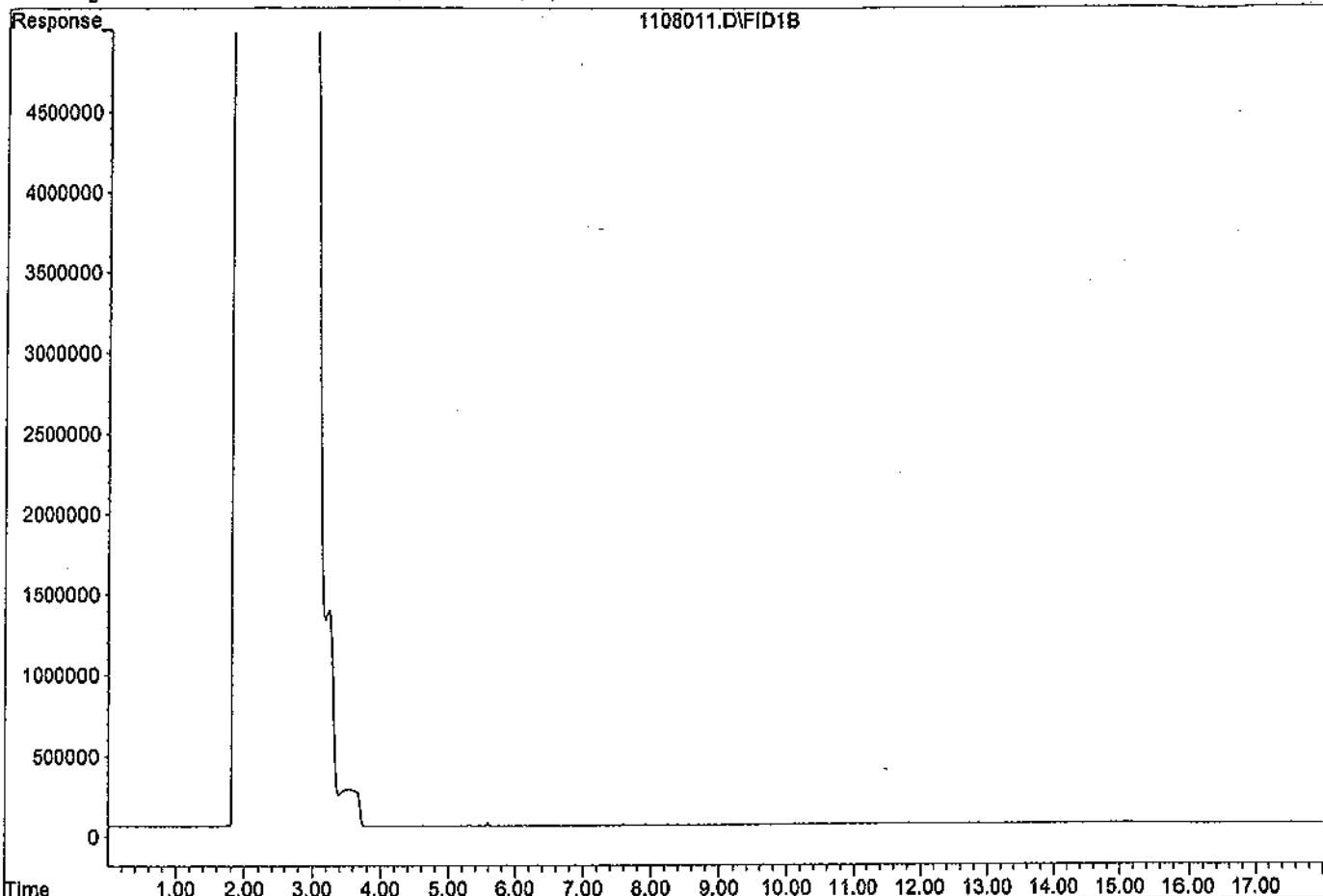
System Monitoring Compounds

Target Compounds

2) HBTM Motor Oil (C18-C36)	12.24	14043686	169.078 ppb
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Data File: G:\APOLLO\DATA\111108\1108011.D

Sample : MOTOR OIL 50/1000 11/8/11



Diesel (C10-C28)

Motor Oil (C18-C36)

6.00 7.00 8.00 9.00 10.00 11.00 12.00

10.00 12.00 14.00 16.00

Data File : G:\APOLLO\DATA\111108\1108012.D Vial: 12
 Acq On : 11-8-11 18:36:14 Operator: LAC
 Sample : MOTOR OIL 100/1000 Inst : Apollo
 Misc : Mix(B) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 9:53 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 17 09:41:49 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

Target Compounds

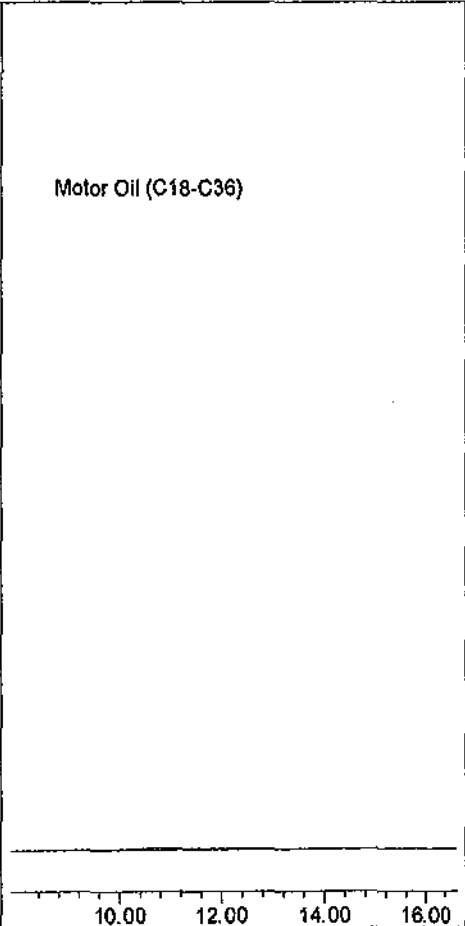
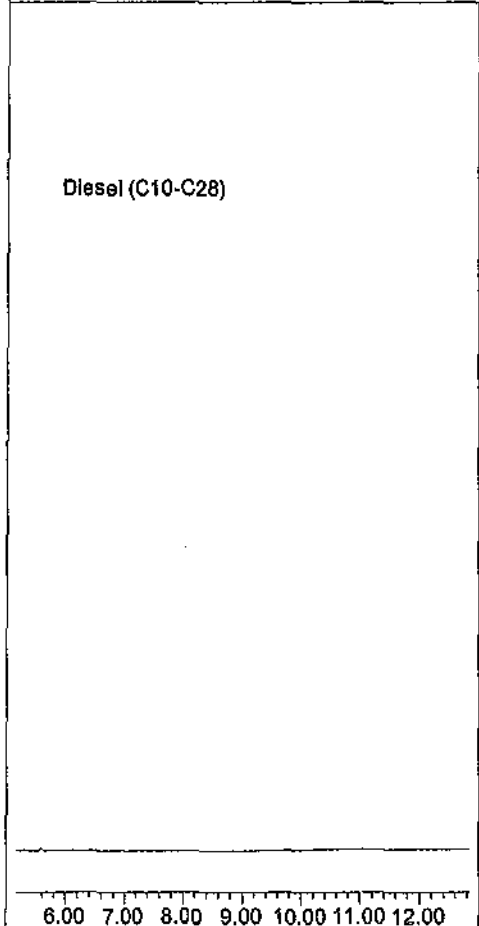
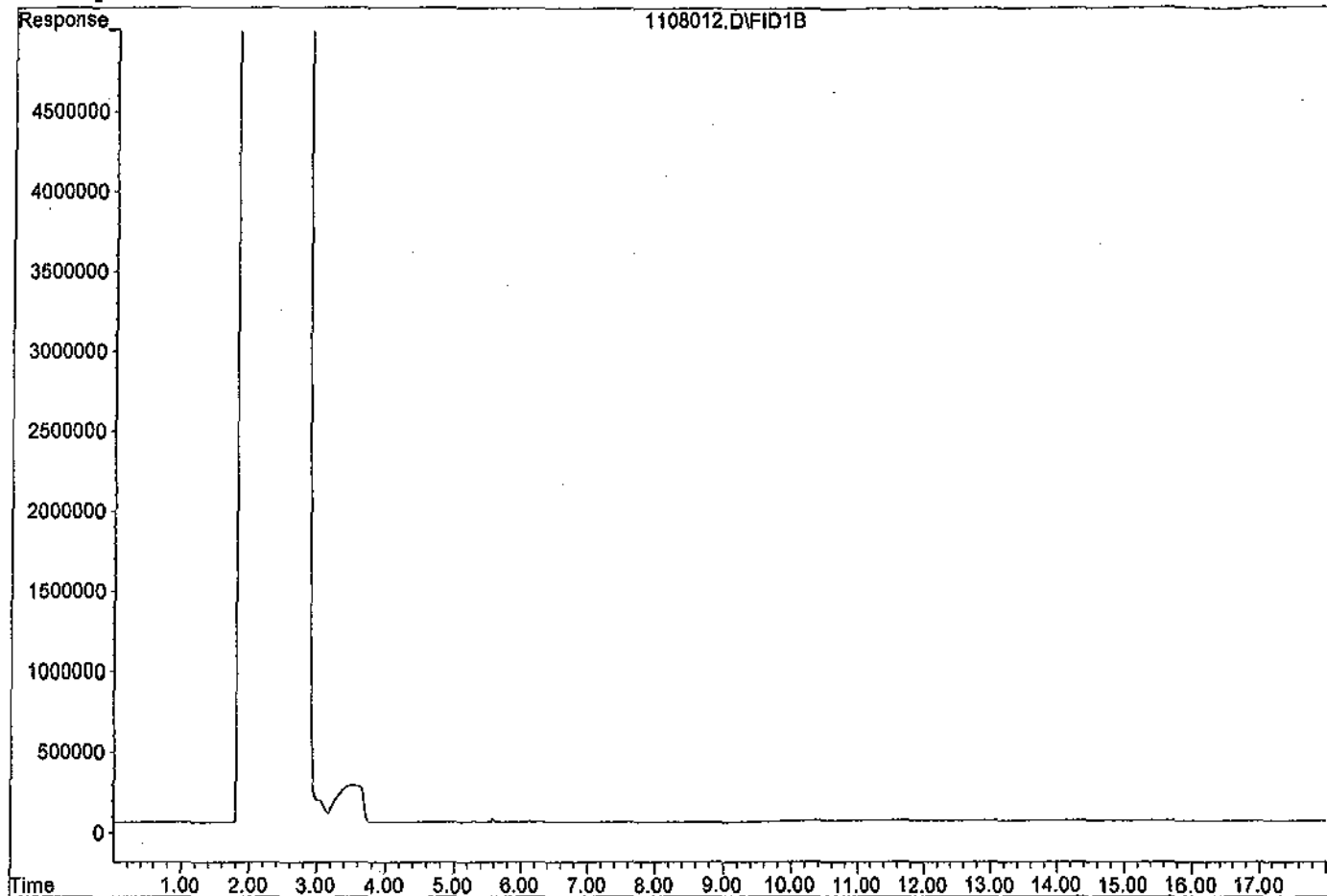
2) HBTM Motor Oil (C18-C36)	12.24	19926419	239.903 ppb
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Quantitation Report

Data File: G:\APOLLO\DATA\111108\1108012.D

Sample : MOTOR OIL 100/1000

1108012.D\FID1B



Data File : G:\APOLLO\DATA\111108\1108013.D Vial: 13
 Acq On : 11-8-11 18:59:47 Operator: LAC
 Sample : MOTOR OIL 400/1000 Inst : Apollo
 Misc : Mix(B) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 9:53 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 17 09:41:49 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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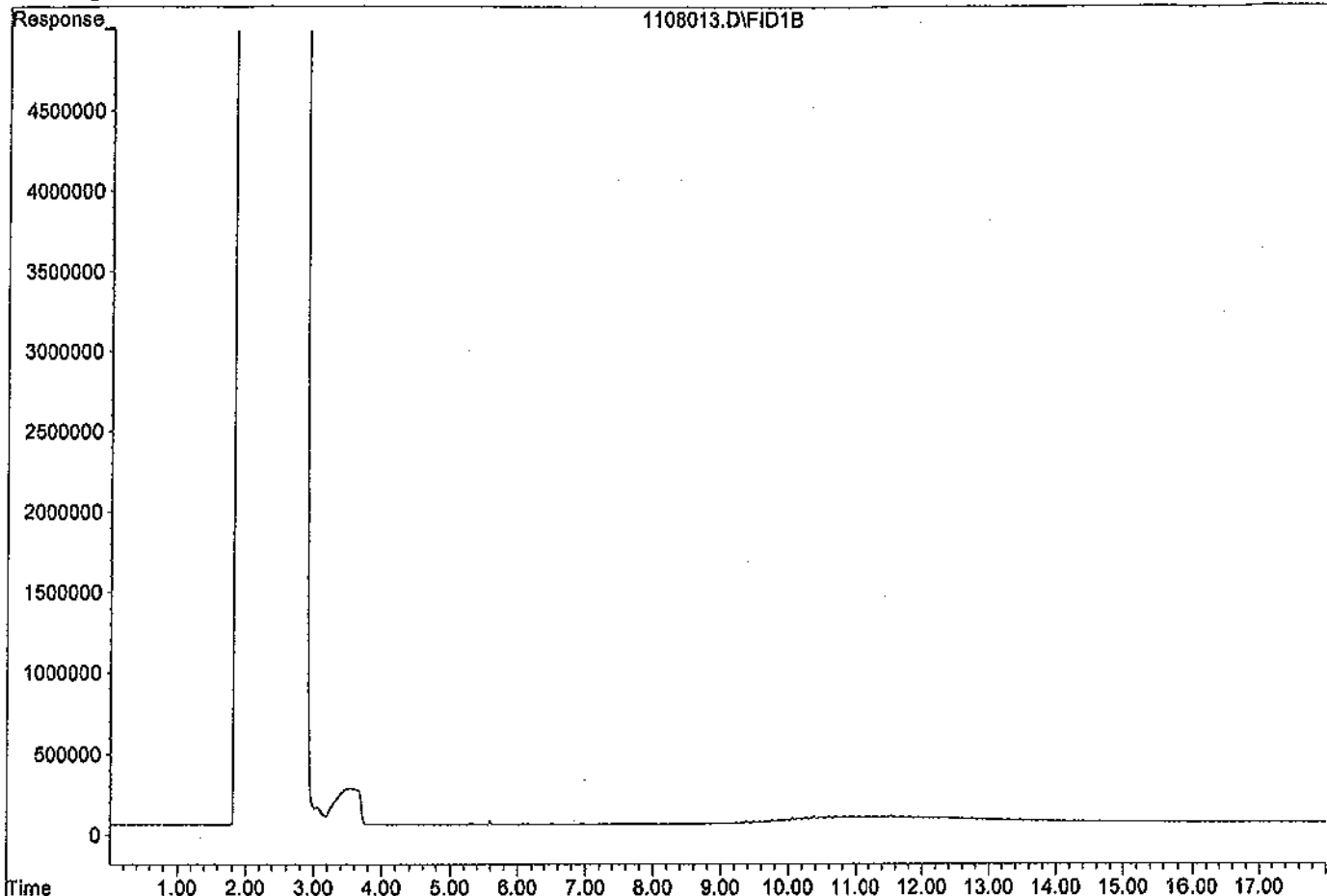
System Monitoring Compounds

Target Compounds

2) HBTM Motor Oil (C18-C36)	12.24	83351892	1003.512 ppb
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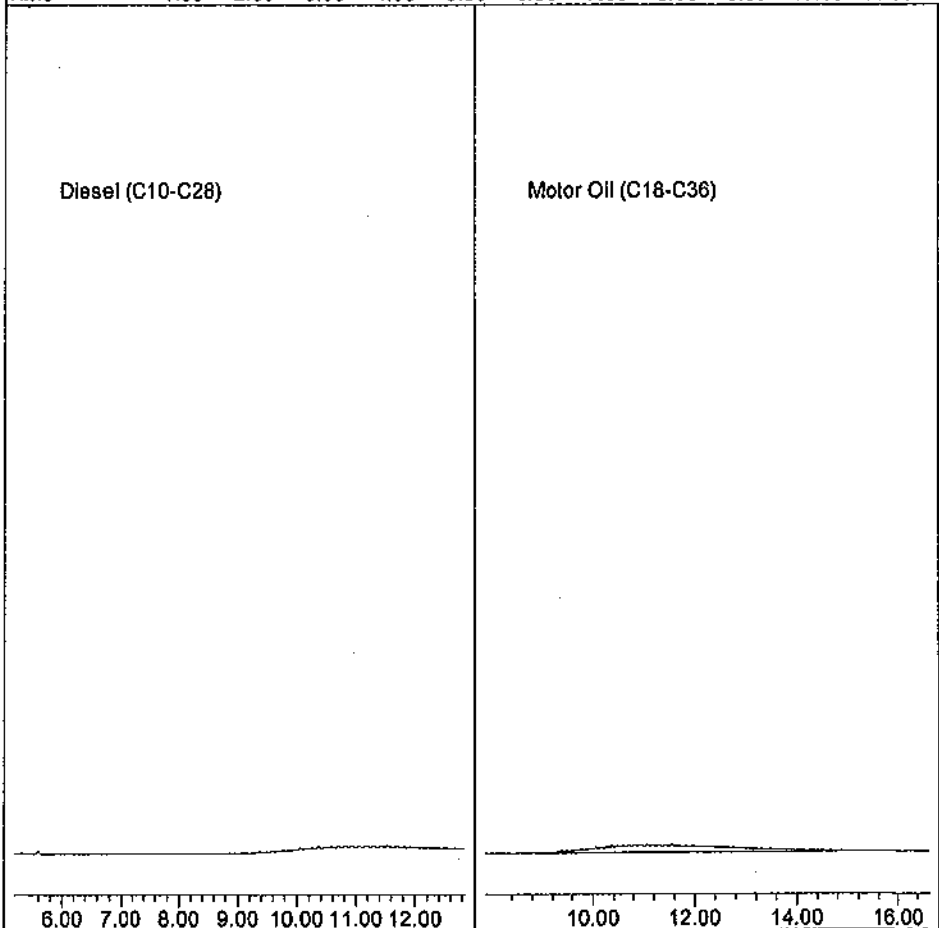
Data File: G:\APOLLO\DATA\111108\1108013.D

Sample : MOTOR OIL 400/1000



Diesel (C10-C28)

Motor Oil (C18-C36)



Data File : G:\APOLLO\DATA\111108\1108014.D Vial: 14
Acq On : 11-8-11 19:23:20 Operator: LAC
Sample : MOTOR OIL 600/1000 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 16 9:54 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 17 09:41:49 2011
Response via : Multiple Level Calibration

Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

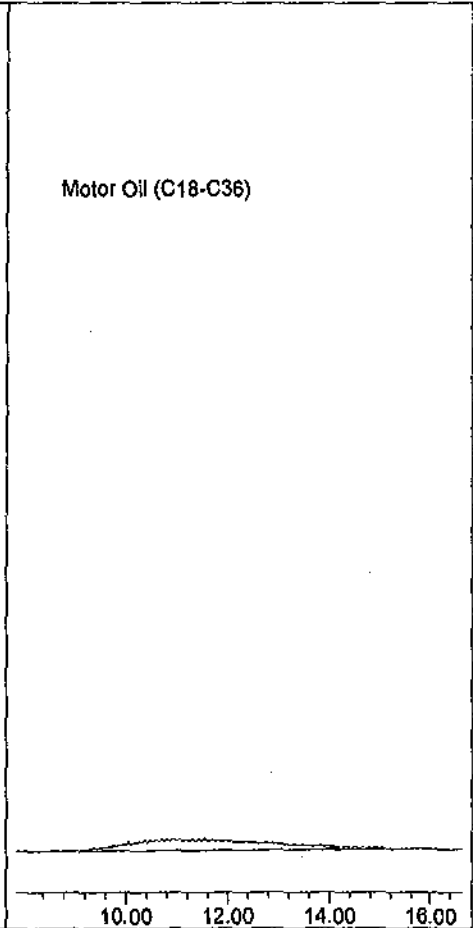
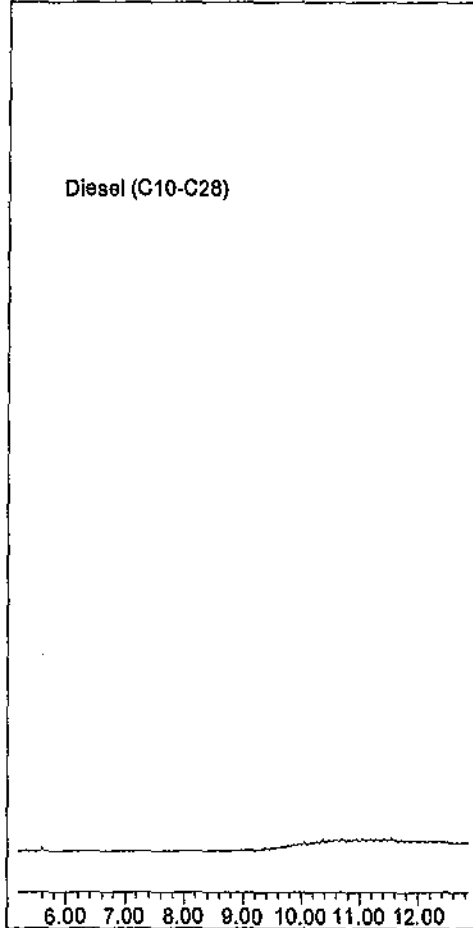
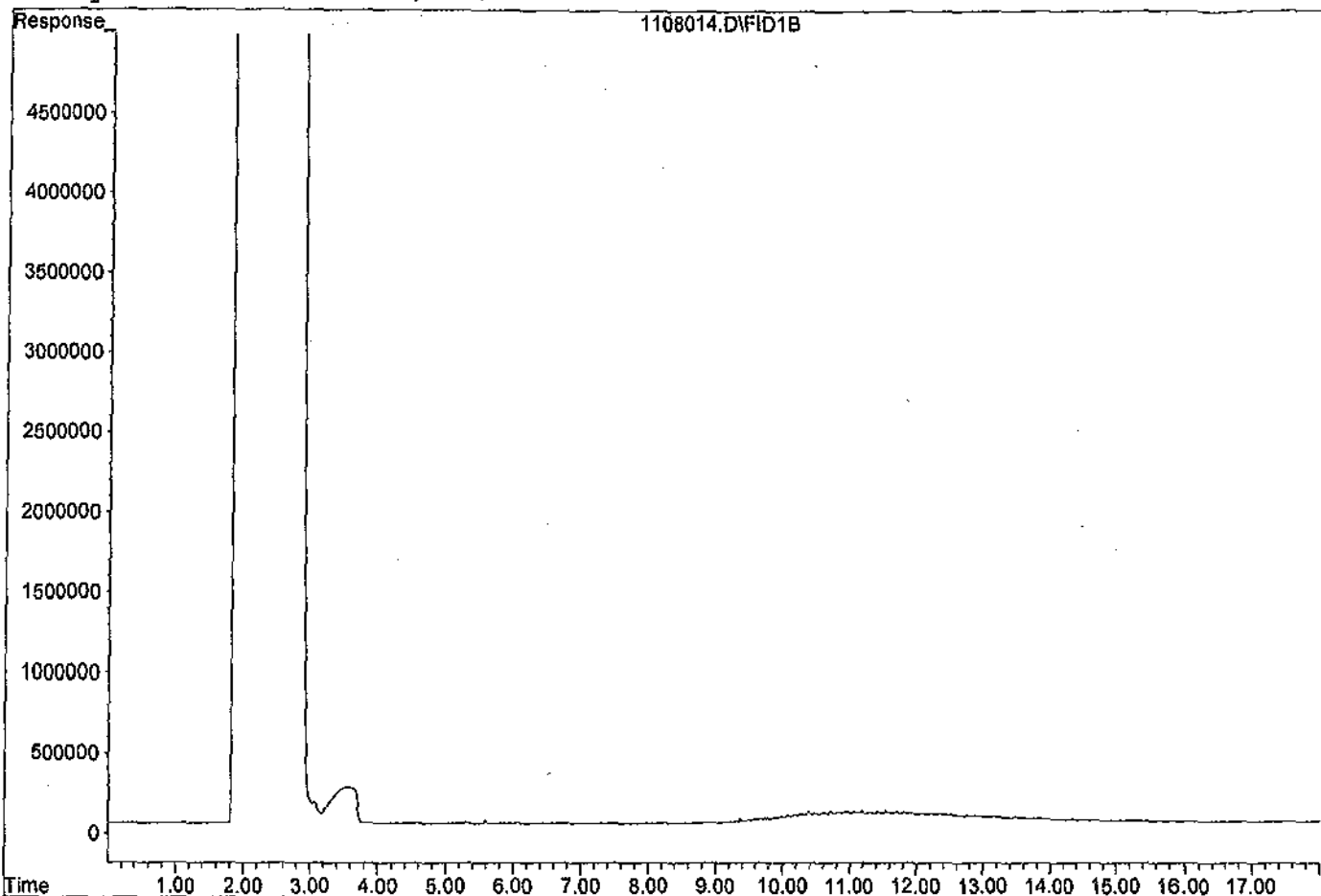
Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

Target Compounds

2) HBTM Motor Oil (C18-C36)	12.24	133423372	1606.346 ppb
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Data File: G:\APOLLO\DATA\111108\1108014.D
Sample : MOTOR OIL 600/1000



Data File : G:\APOLLO\DATA\111108\1108015.D Vial: 15
 Acq On : 11-8-11 19:46:53 Operator: LAC
 Sample : MOTOR OIL 800/1000 Inst : Apollo
 Misc : Mix(B) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 9:54 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 17 09:41:49 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

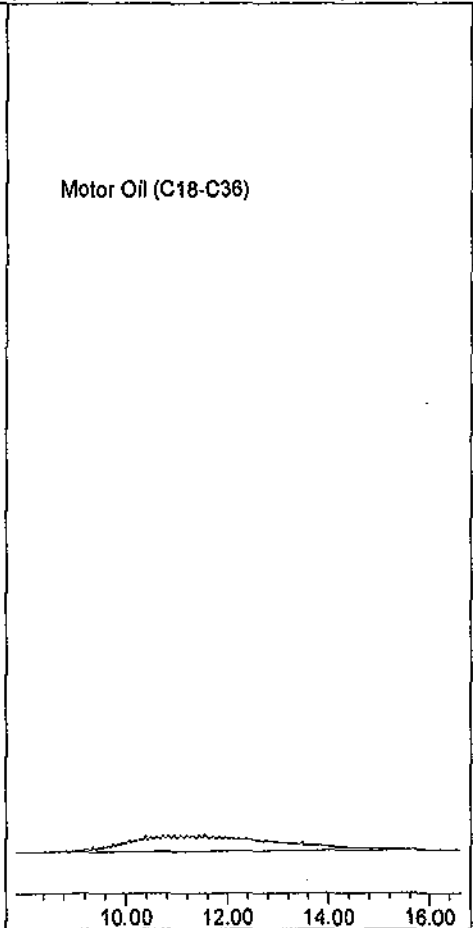
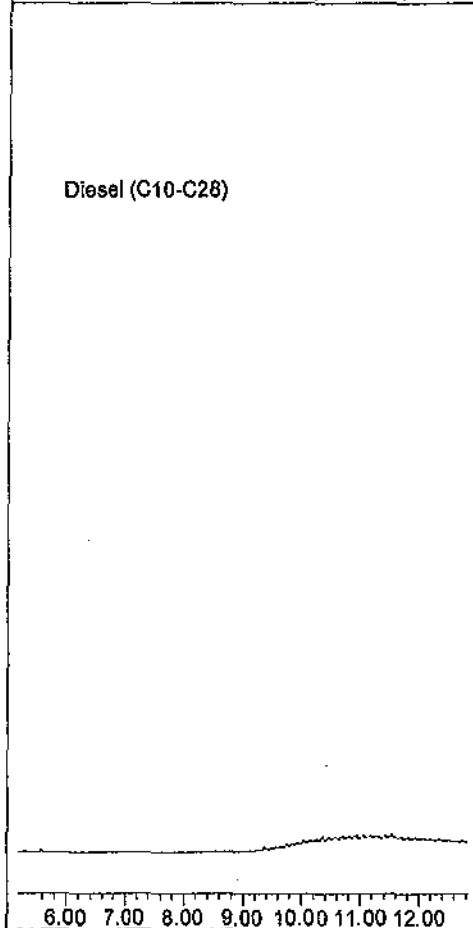
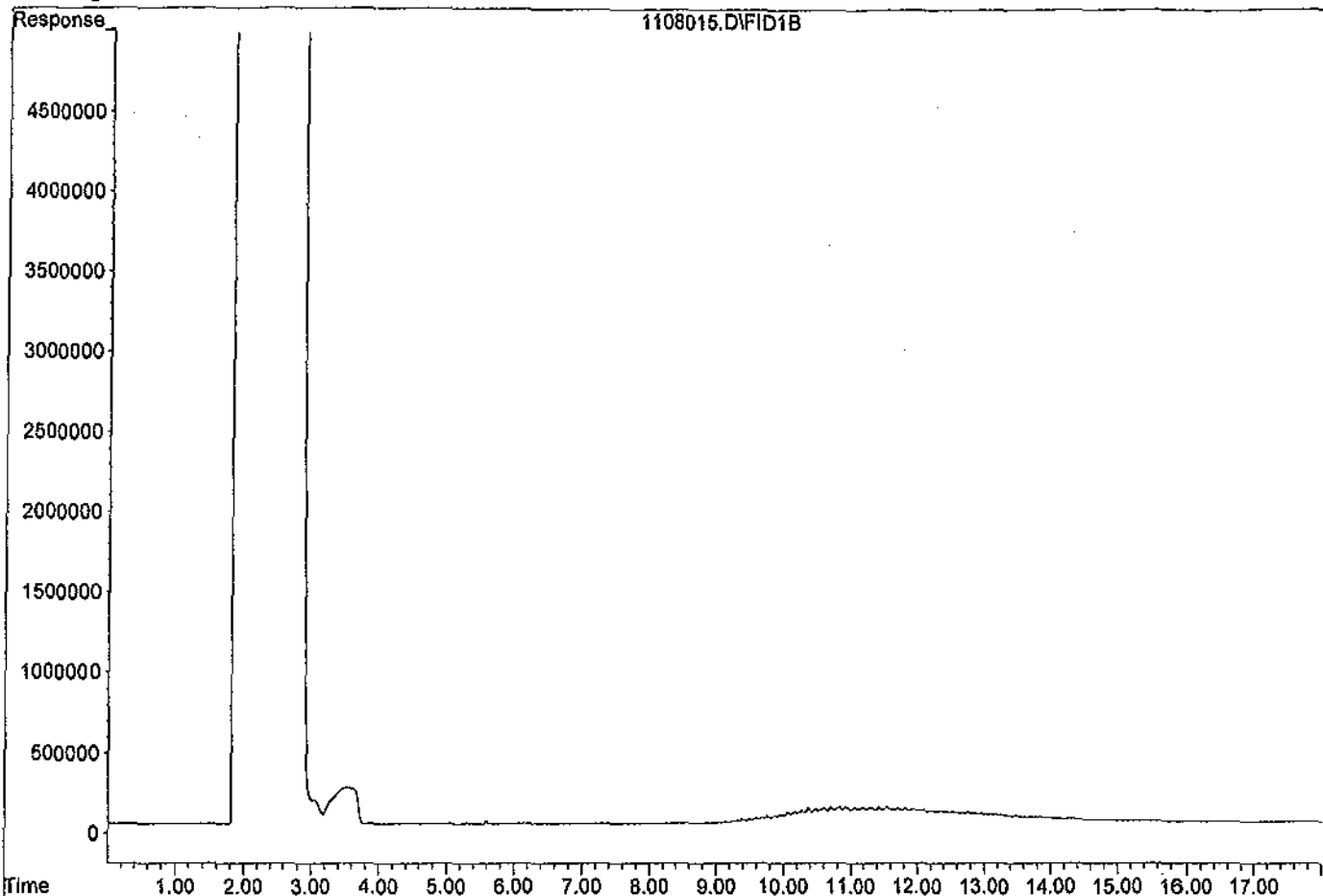
Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

Target Compounds

2) HBTM Motor Oil (C18-C36)	12.24	185280557	2230.679 ppb
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Data File: G:\APOLLO\DATA\111108\1108015.D
Sample : MOTOR OIL 800/1000



Data File : G:\APOLLO\DATA\111108\1108016.D Vial: 16
 Acq On : 11-8-11 20:10:21 Operator: LAC
 Sample : MOTOR OIL 1000/1000 Inst : Apollo
 Misc : Mix(B) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 9:54 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 17 09:41:49 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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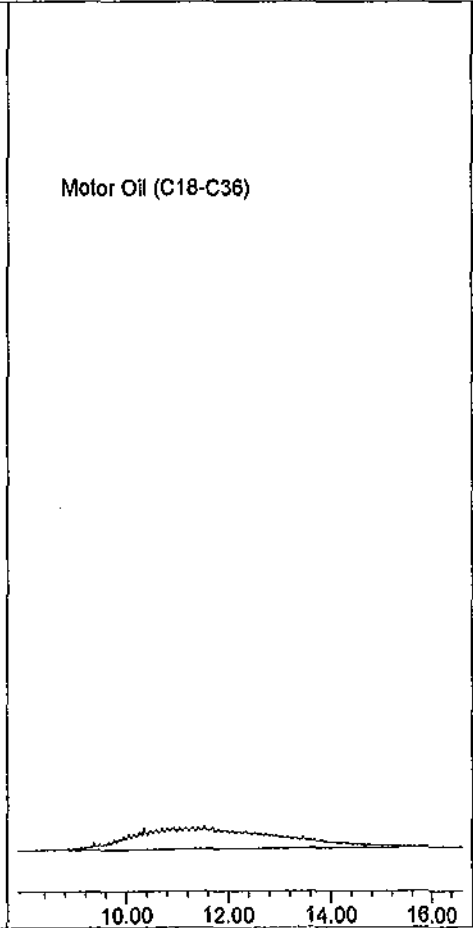
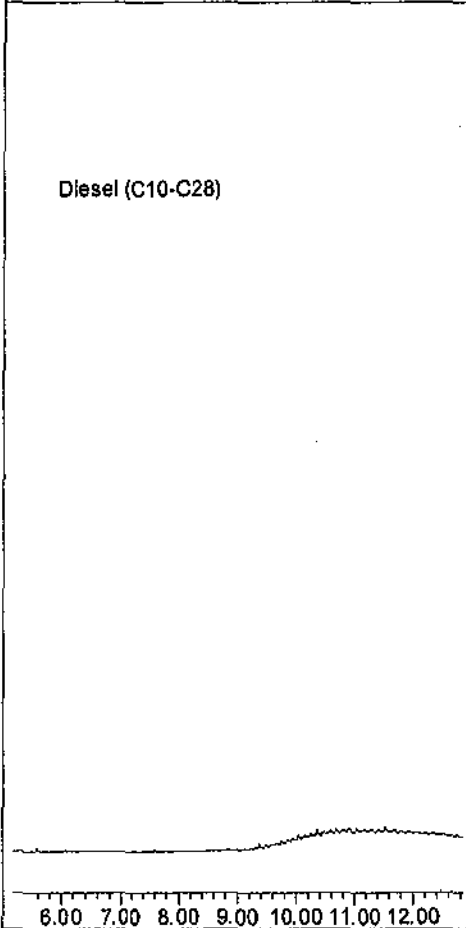
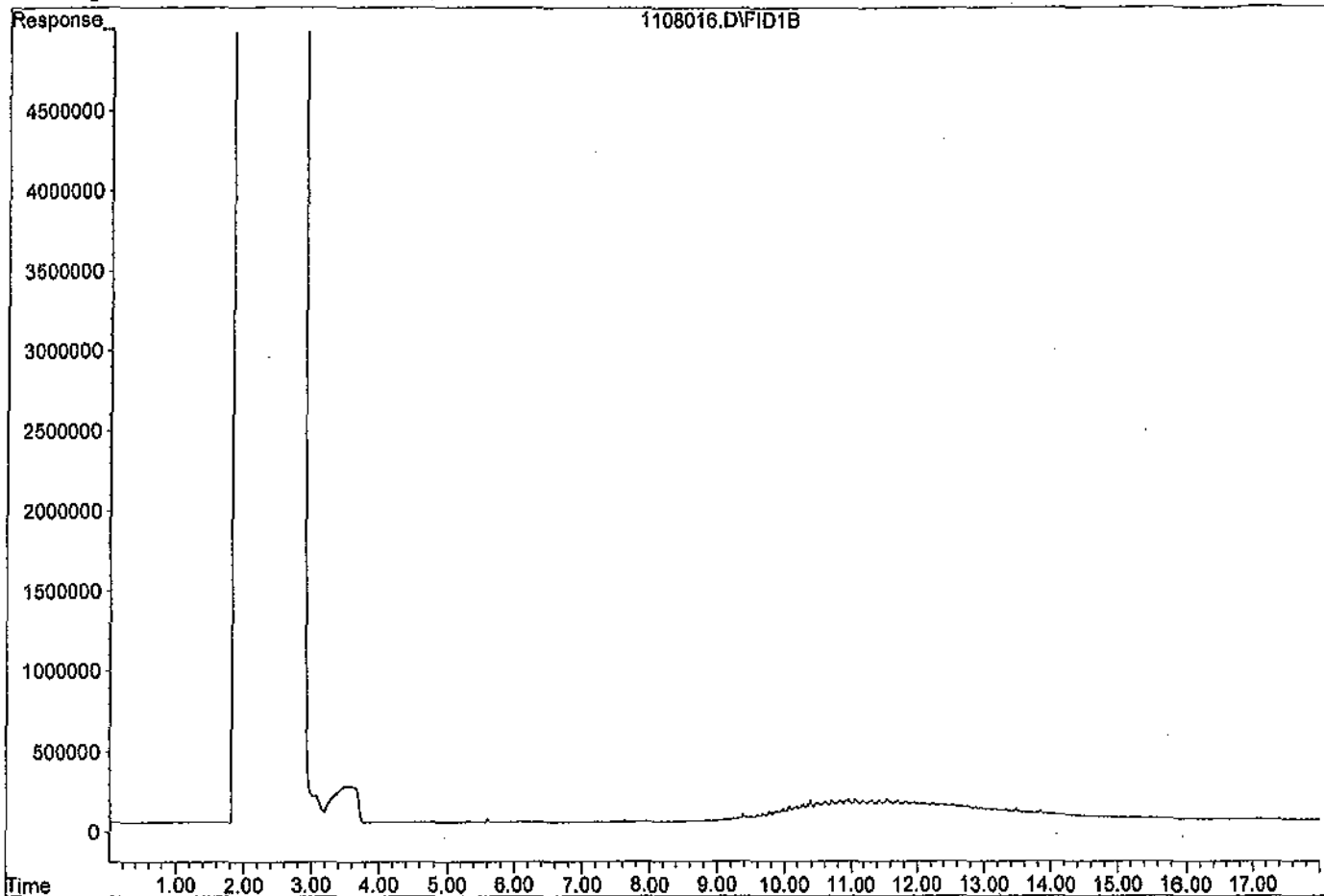
System Monitoring Compounds

Target Compounds

2) HBTM Motor Oil (C18-C36)	12.24	250746792	3018.857 ppb
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Data File: G:\APOLLO\DATA\111108\1108016.D
Sample : MOTOR OIL 1000/1000

1108016.D\FID1B



Data File : G:\APOLLO\DATA\111108\1108069.D Vial: 69
 Acq On : 11-9-11 17:18:58 Operator: LAC
 Sample : DIESEL 10/1000 11/8/11 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 9:53 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 17 09:41:49 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

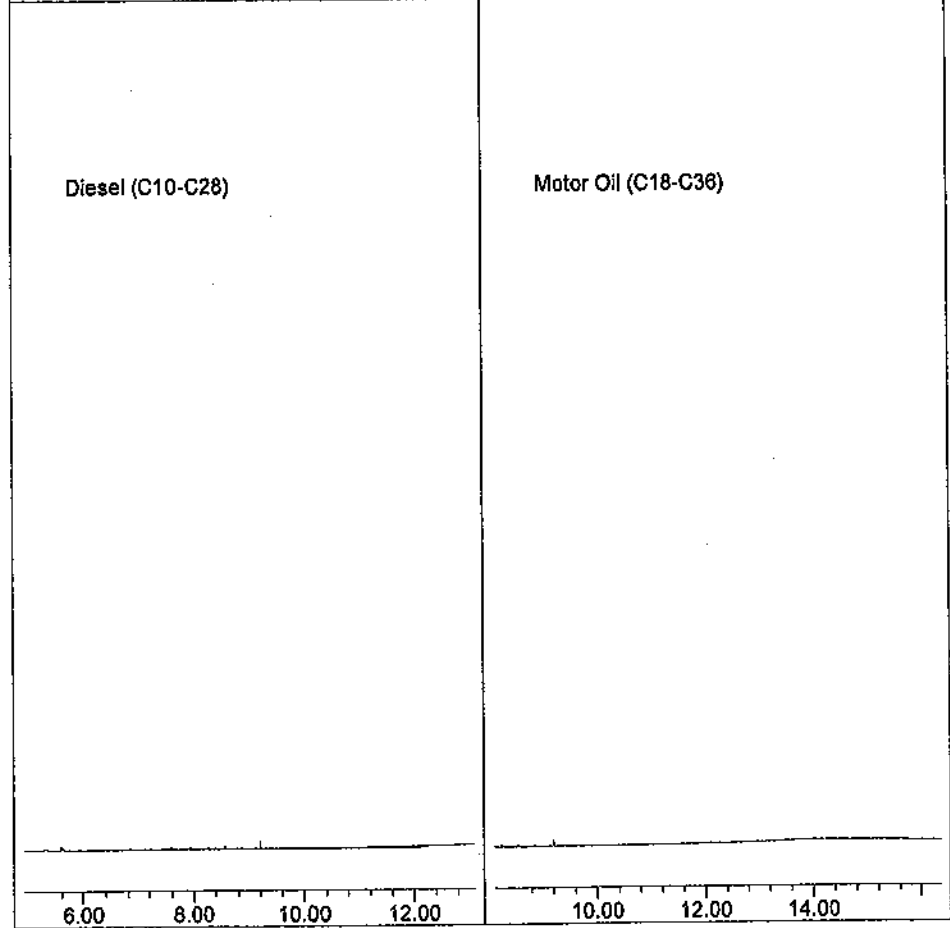
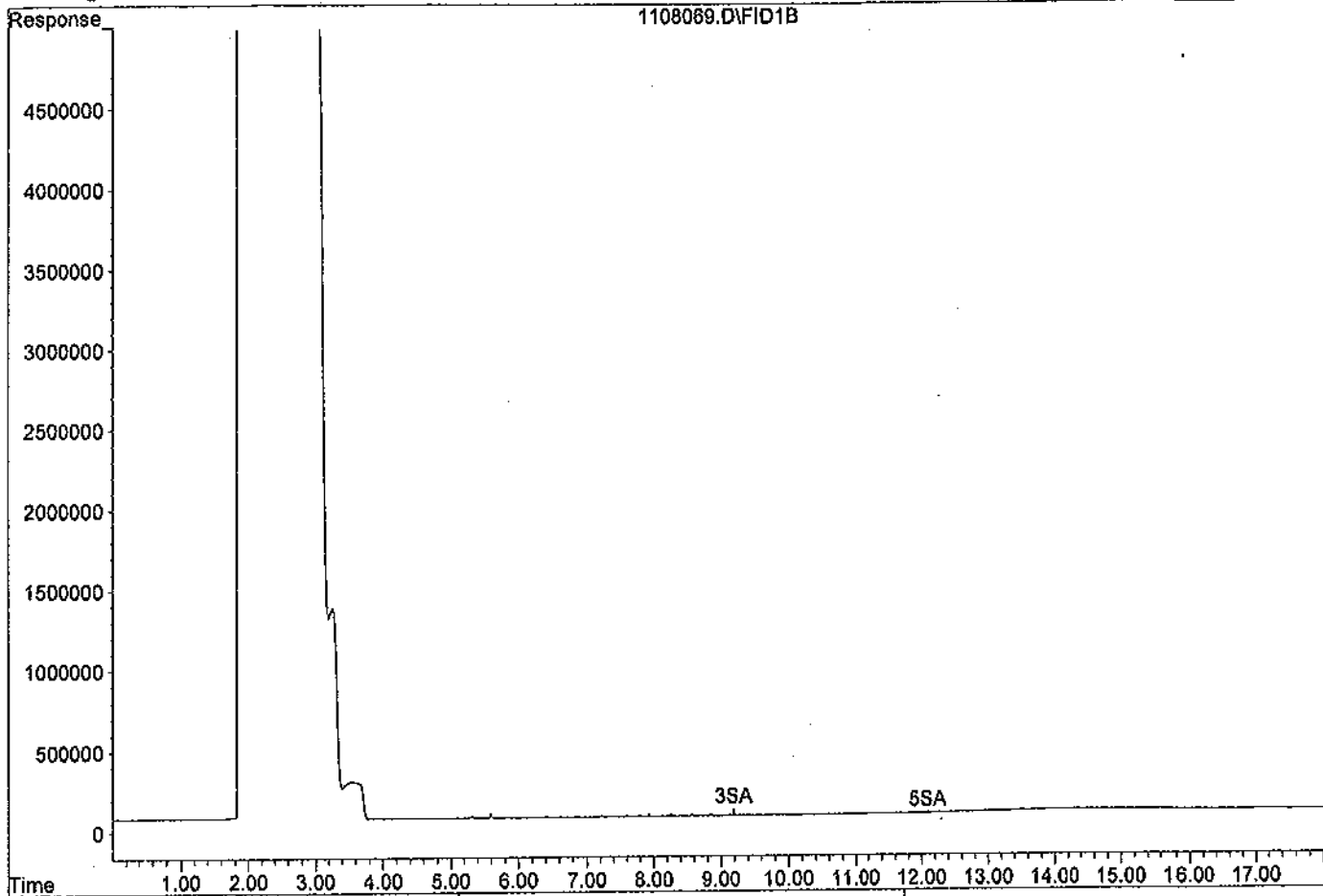
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Not Used(S)	9.20	302444	0.297 ppb
Surrogate Spike 30.000		Recovery =	0.99%
5) SA Not Used2(S)	12.10	625179	2.122 ppb
Surrogate Spike 30.000		Recovery =	7.07%
Target Compounds			
1) HATM Diesel (C10-C28)	9.01	12262633	1055.198 ppb

Data File: G:\APOLLO\DATA\111108\1108069.D

Sample : DIESEL 10/1000 11/8/11

1108069.D\FID1B



Data File : G:\APOLLO\DATA\111115\1115021.D Vial: 21
 Acq On : 11-15-11 18:21:35 Operator: LAC
 Sample : THC SURR 10/1000 11/15/11 Inst : Apollo
 Misc : Mix(C) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 14:58 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 17 09:41:49 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

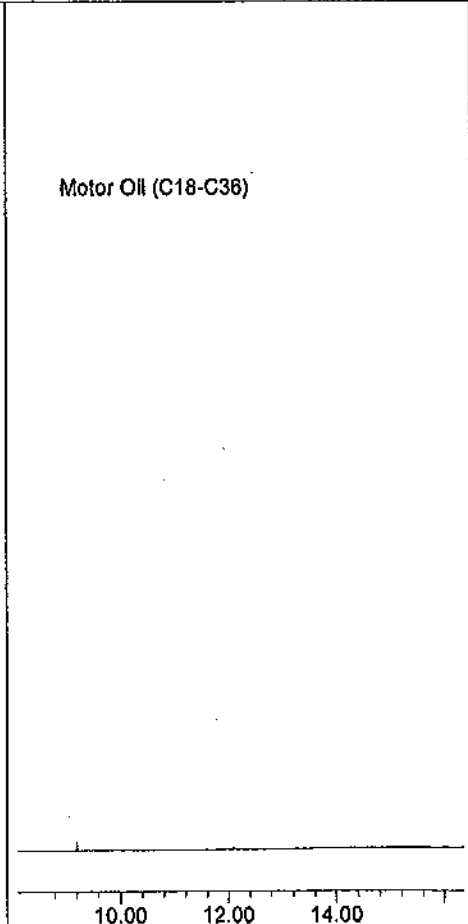
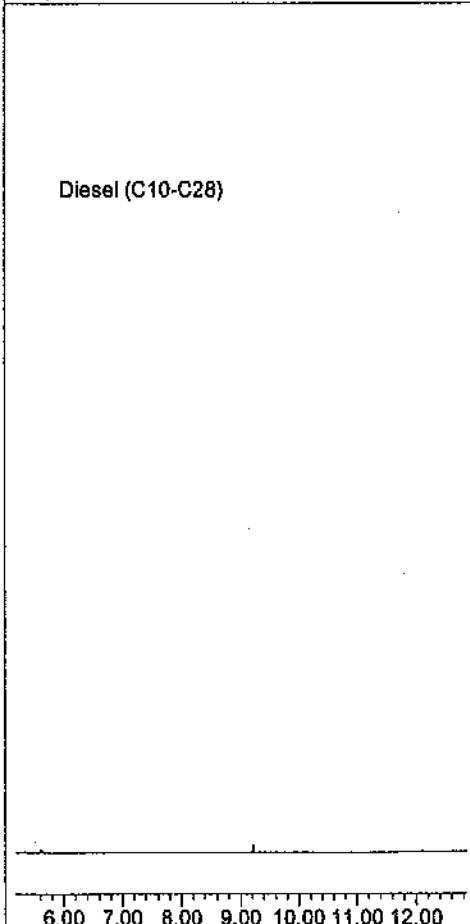
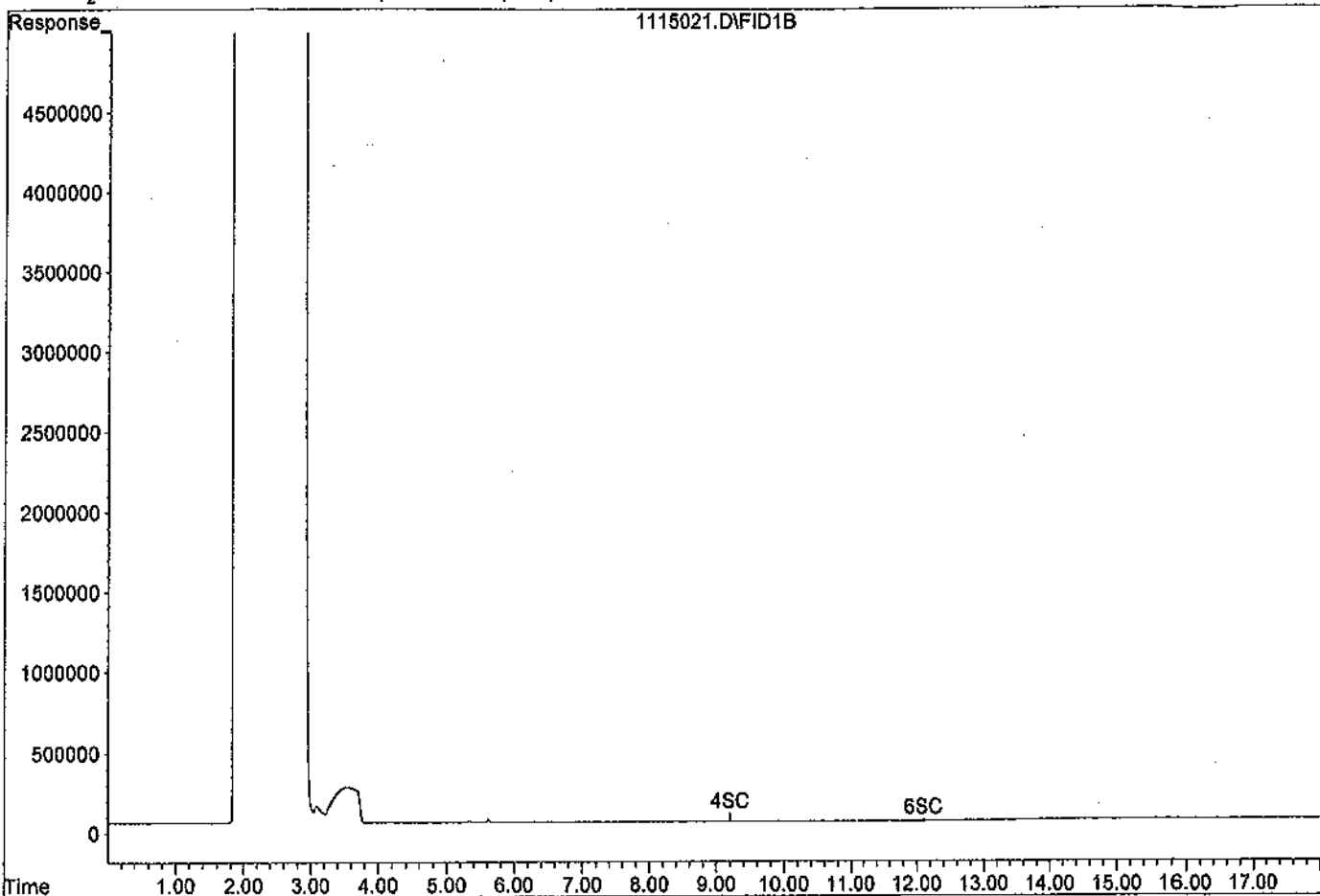
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.21	356915	0.559 ppb
Surrogate Spike 30.000		Recovery =	1.86%
6) SC Octacosane(S)	12.10	279297	1.196 ppb
Surrogate Spike 30.000		Recovery =	3.99%

Target Compounds

Data File: G:\APOLLO\DATA\111115\1115021.D

Sample : THC SURR 10/1000 11/15/11



Data File : G:\APOLLO\DATA\111115\1115022.D Vial: 22
 Acq On : 11-15-11 18:45:31 Operator: LAC
 Sample : THC SURR 100/1000 Inst : Apollo
 Misc : Mix(C) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 14:58 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 17 09:41:49 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

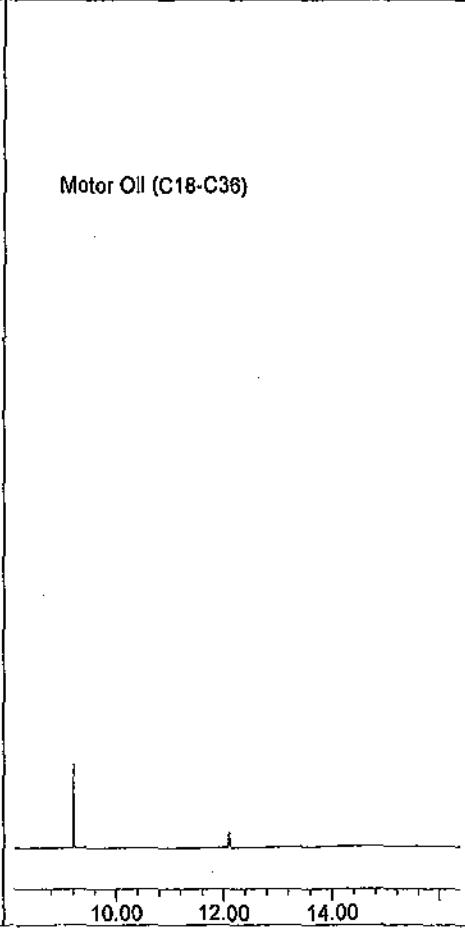
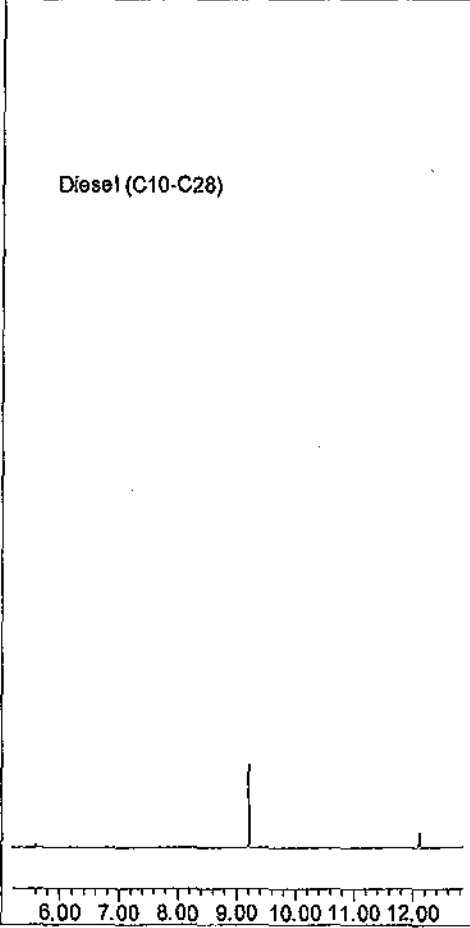
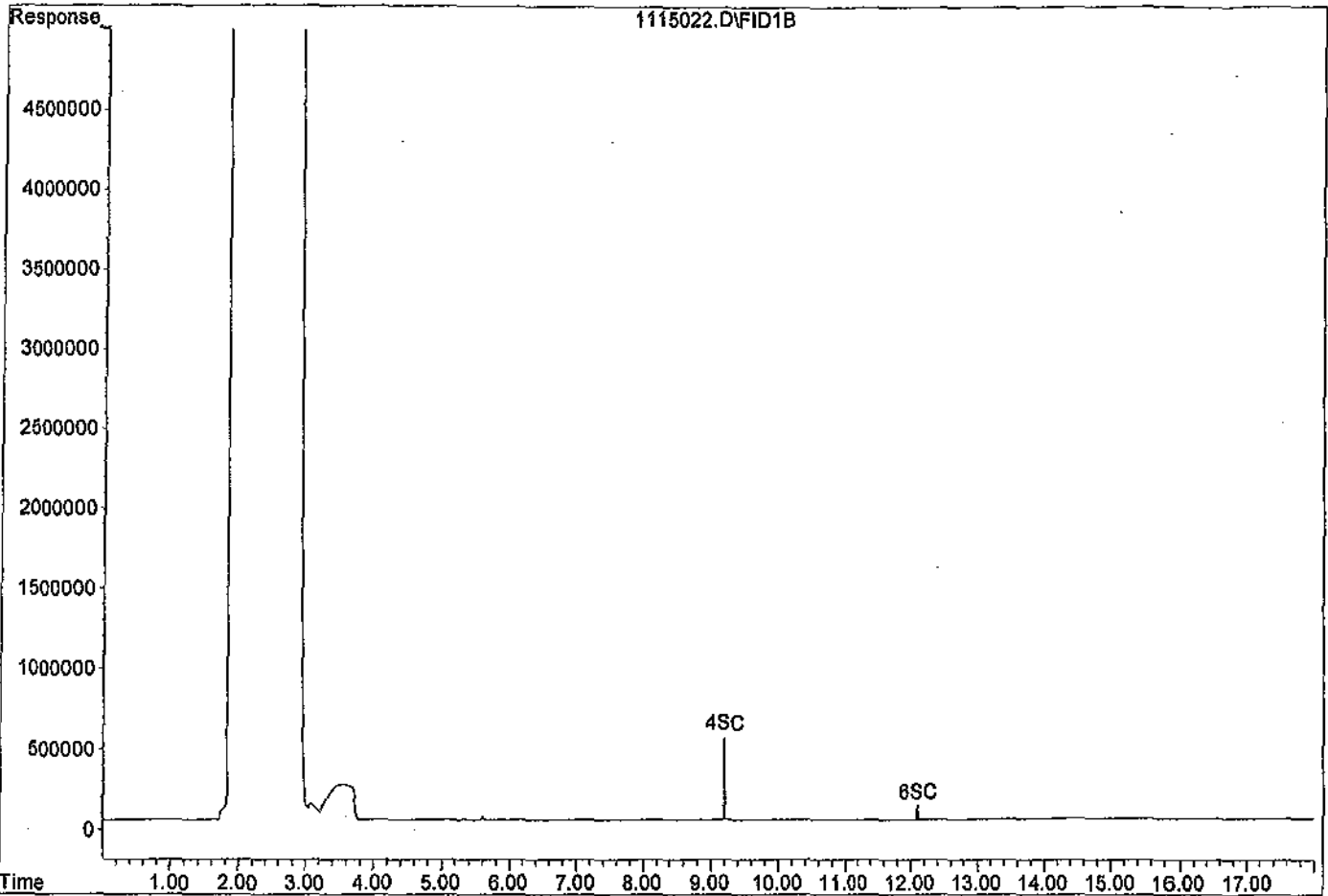
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.21	3207972	5.028 ppb
Surrogate Spike 30.000		Recovery =	16.76%
6) SC Octacosane(S)	12.11	1214451	5.201 ppb
Surrogate Spike 30.000		Recovery =	17.34%

Target Compounds

Data File: G:\APOLLO\DATA\111115\1115022.D

Sample : THC SURR 100/1000



Data File : G:\APOLLO\DATA\111115\1115023.D Vial: 23
 Acq On : 11-15-11 19:09:25 Operator: LAC
 Sample : THC SURR 400/1000 Inst : Apollo
 Misc : Mix(C) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 14:58 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 17 09:41:49 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

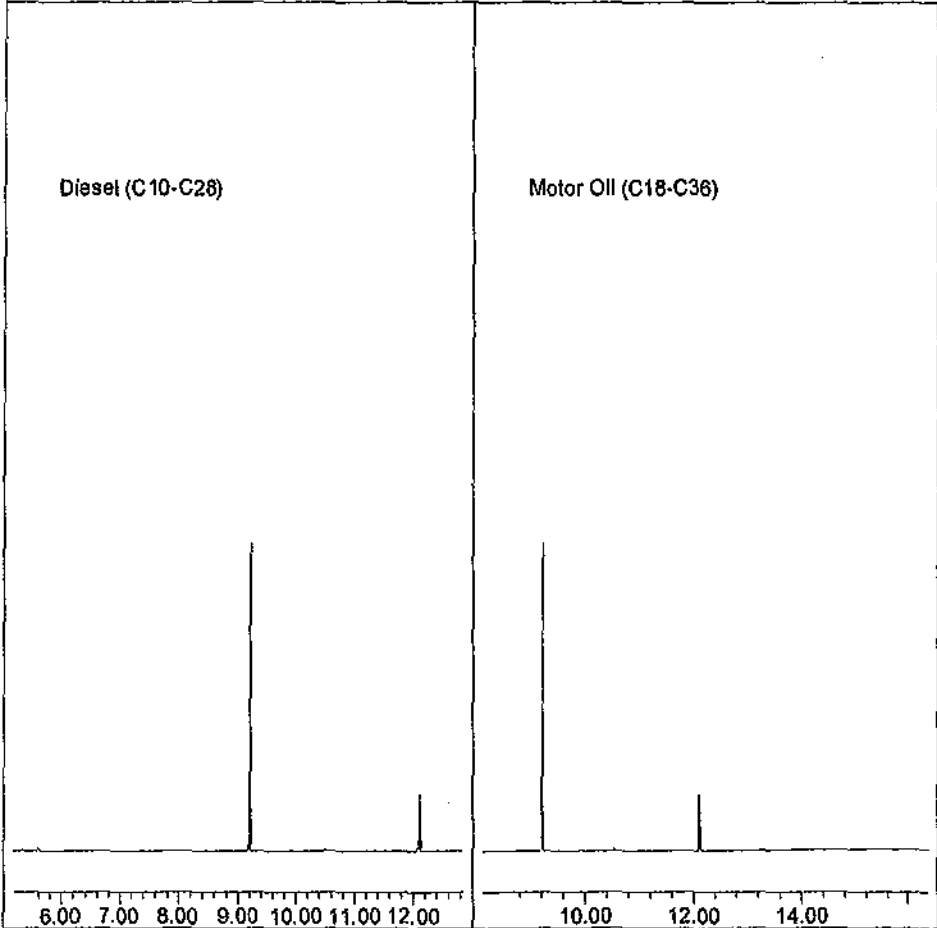
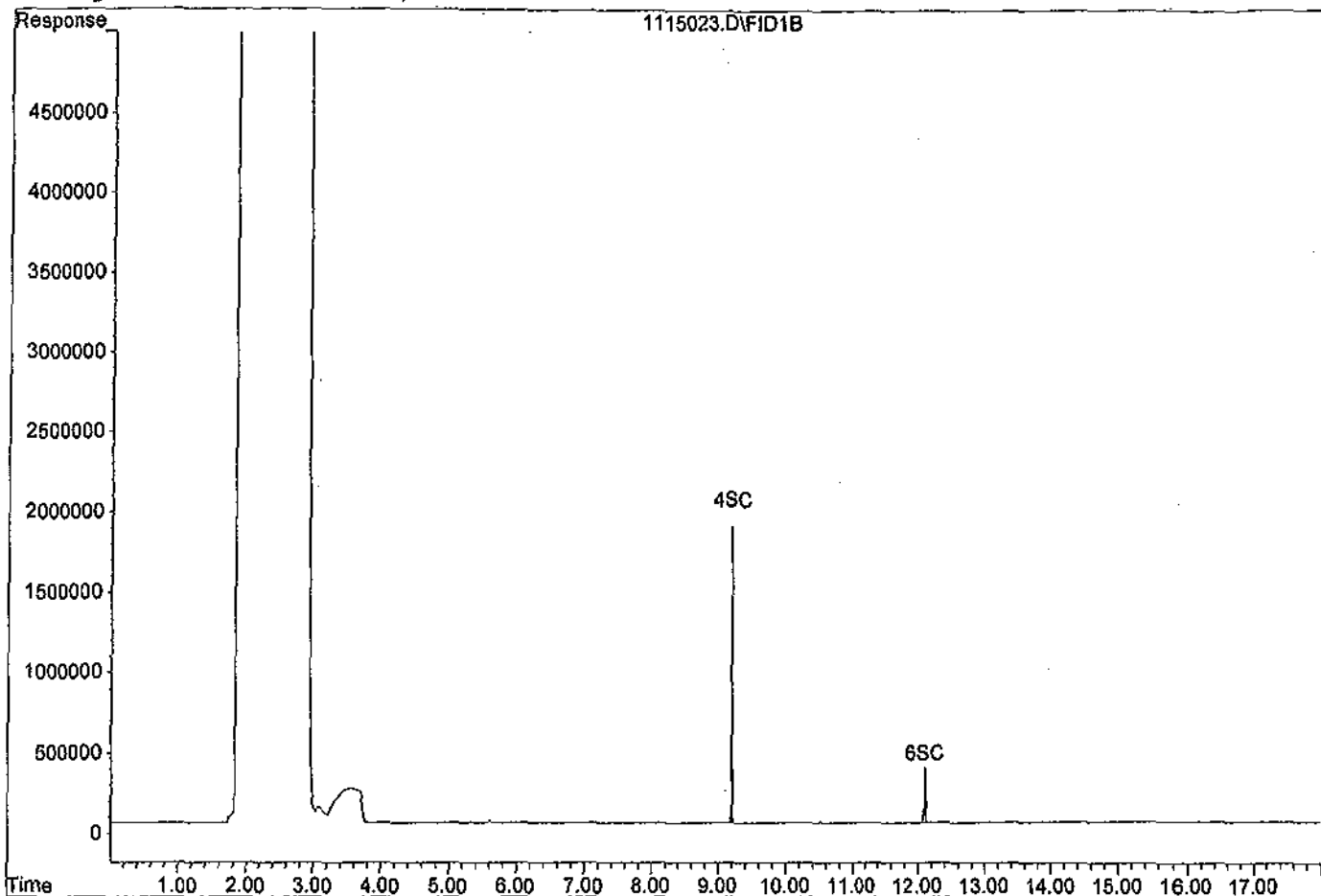
Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

4) SC Ortho-Terphenyl(S)	9.21	12023229	18.845 ppb
Surrogate Spike 30.000		Recovery =	62.82%
6) SC Octacosane(S)	12.11	4606231	19.728 ppb
Surrogate Spike 30.000		Recovery =	65.76%

Target Compounds

Data File: G:\APOLLO\DATA\111115\1115023.D
Sample : THC SURR 400/1000



Data File : G:\APOLLO\DATA\111115\1115024.D Vial: 24
 Acq On : 11-15-11 19:33:17 Operator: LAC
 Sample : THC SURR 600/1000 Inst : Apollo
 Misc : Mix(C) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 14:58 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 17 09:41:49 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

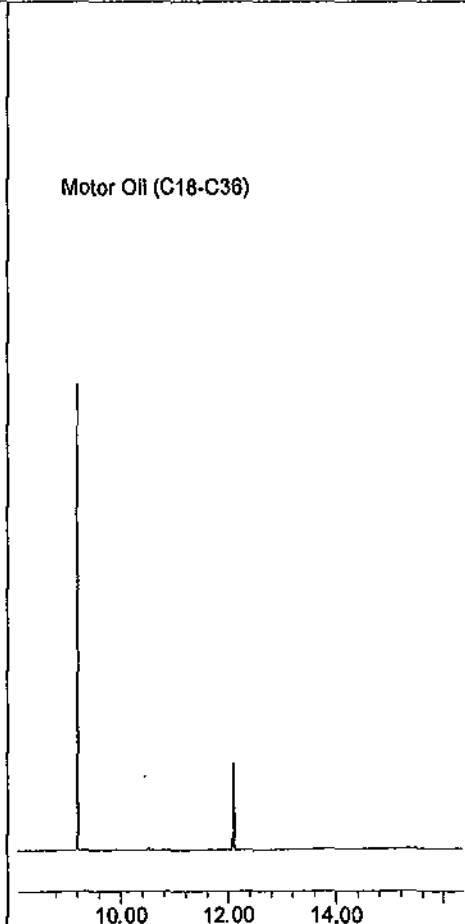
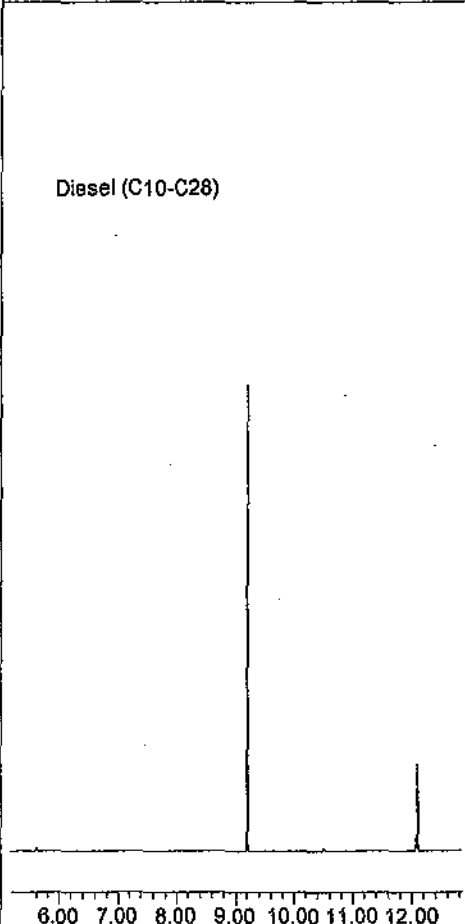
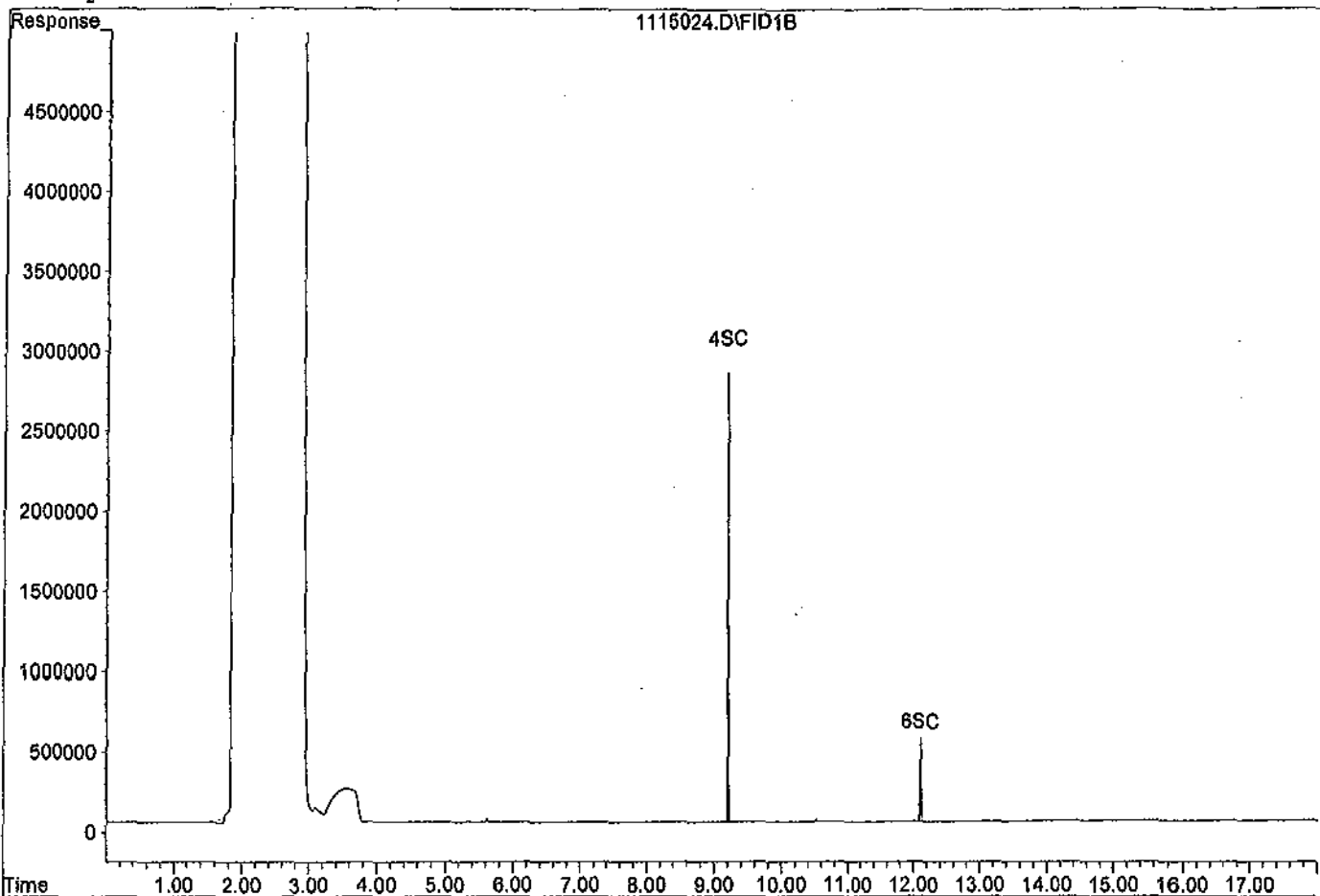
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.21	18244401	28.595 ppb
Surrogate Spike 30.000		Recovery =	95.32%
6) SC Octacosane(S)	12.11	6794679	29.101 ppb
Surrogate Spike 30.000		Recovery =	97.00%

Target Compounds

Data File: G:\APOLLO\DATA\111115\1115024.D

Sample : THC SURR 600/1000



Data File : G:\APOLLO\DATA\111115\1115025.D Vial: 25
 Acq On : 11-15-11 19:57:06 Operator: LAC
 Sample : THC SURR 800/1000 Inst : Apollo
 Misc : Mix(C) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 14:58 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 17 09:41:49 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

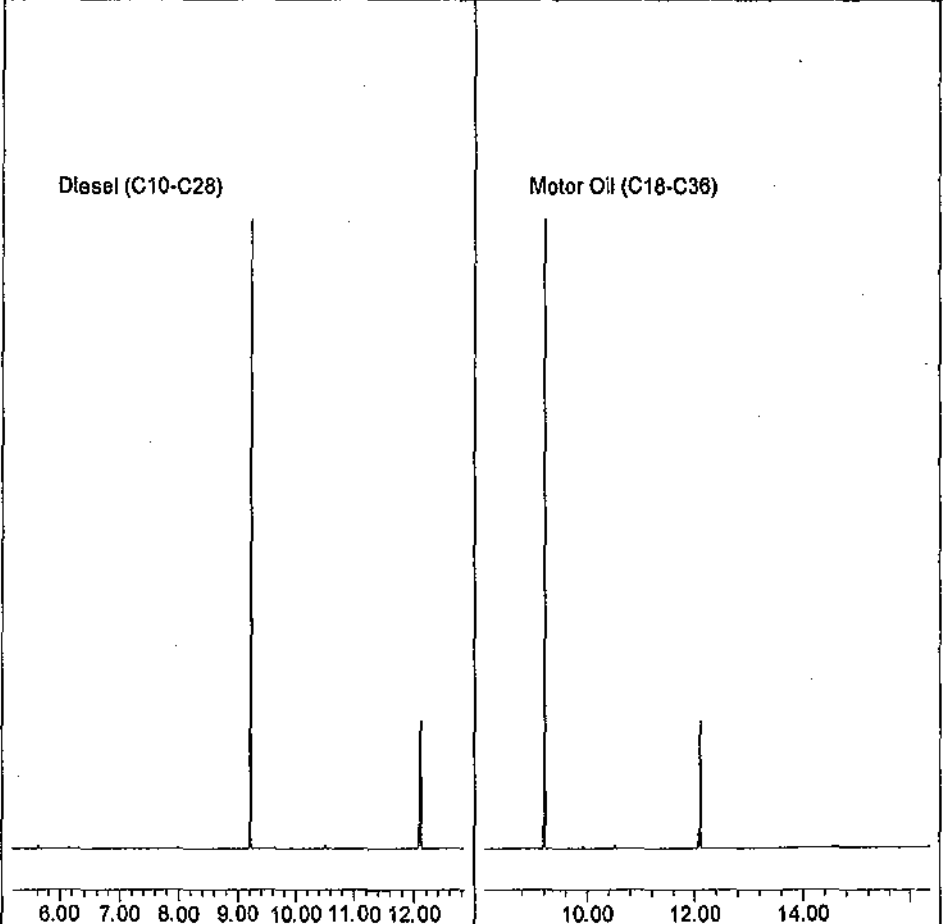
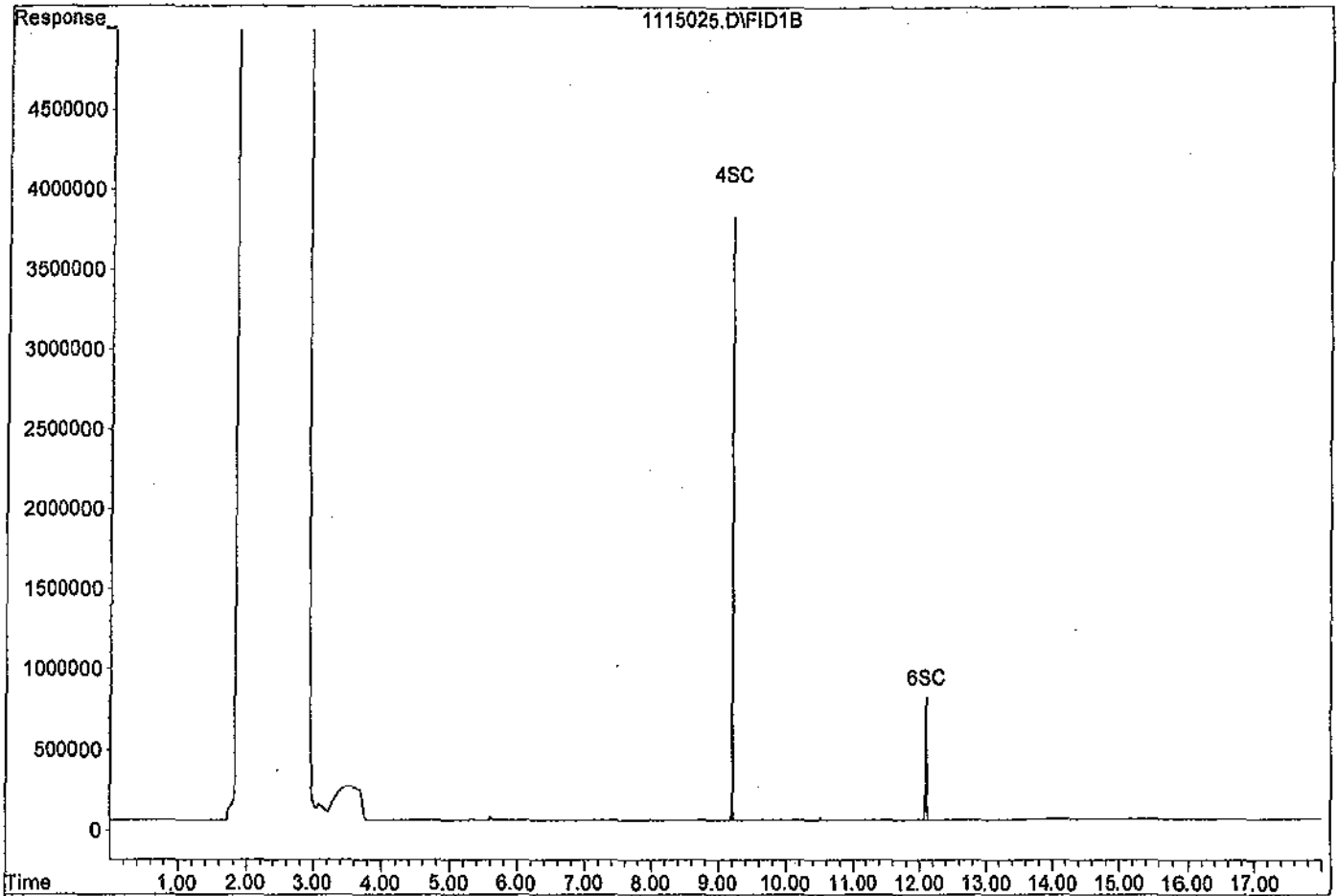
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.21	25946623	40.667 ppb
Surrogate Spike 30.000		Recovery =	135.56%
6) SC Octacosane(S)	12.11	10118734	43.337 ppb
Surrogate Spike 30.000		Recovery =	144.46%

Target Compounds

Data File: G:\APOLLO\DATA\111115\1115025.D

Sample : THC SURR 800/1000



Data File : G:\APOLLO\DATA\111115\1115026.D Vial: 26
 Acq On : 11-15-11 20:20:52 Operator: LAC
 Sample : THC SURR 1000/1000 Inst : Apollo
 Misc : Mix(C) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 14:58 2011 Quant Results File: TPH8S15.RES

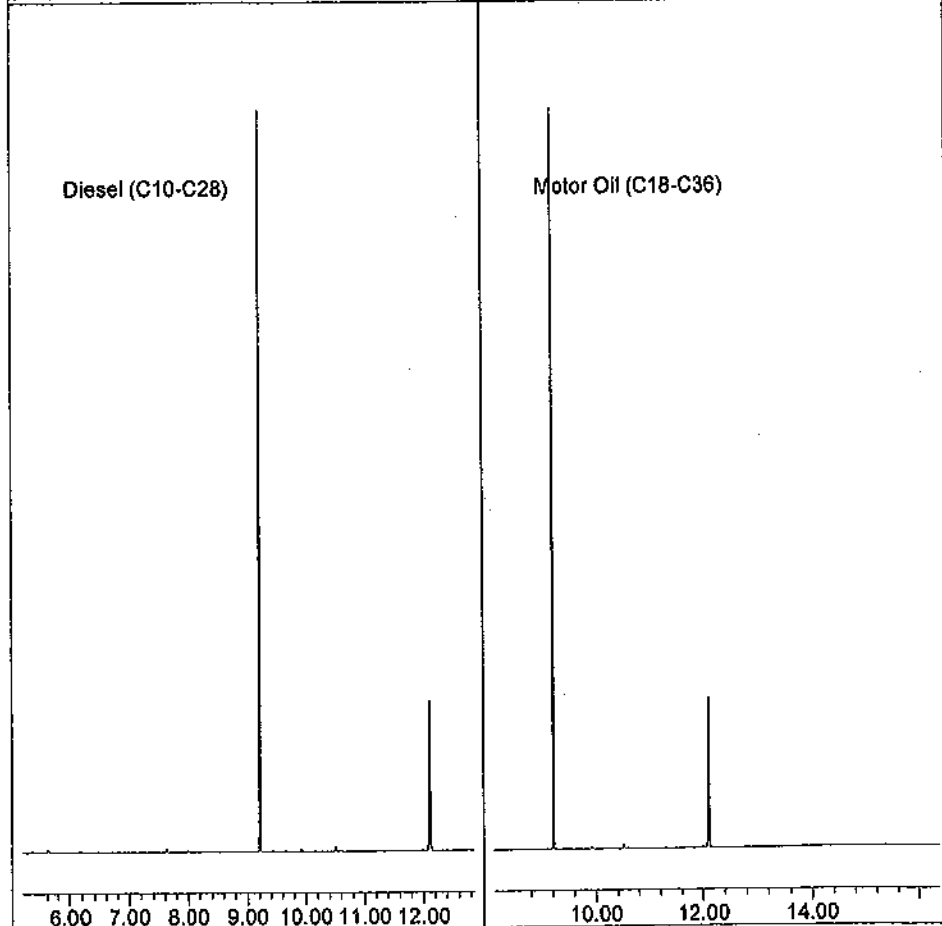
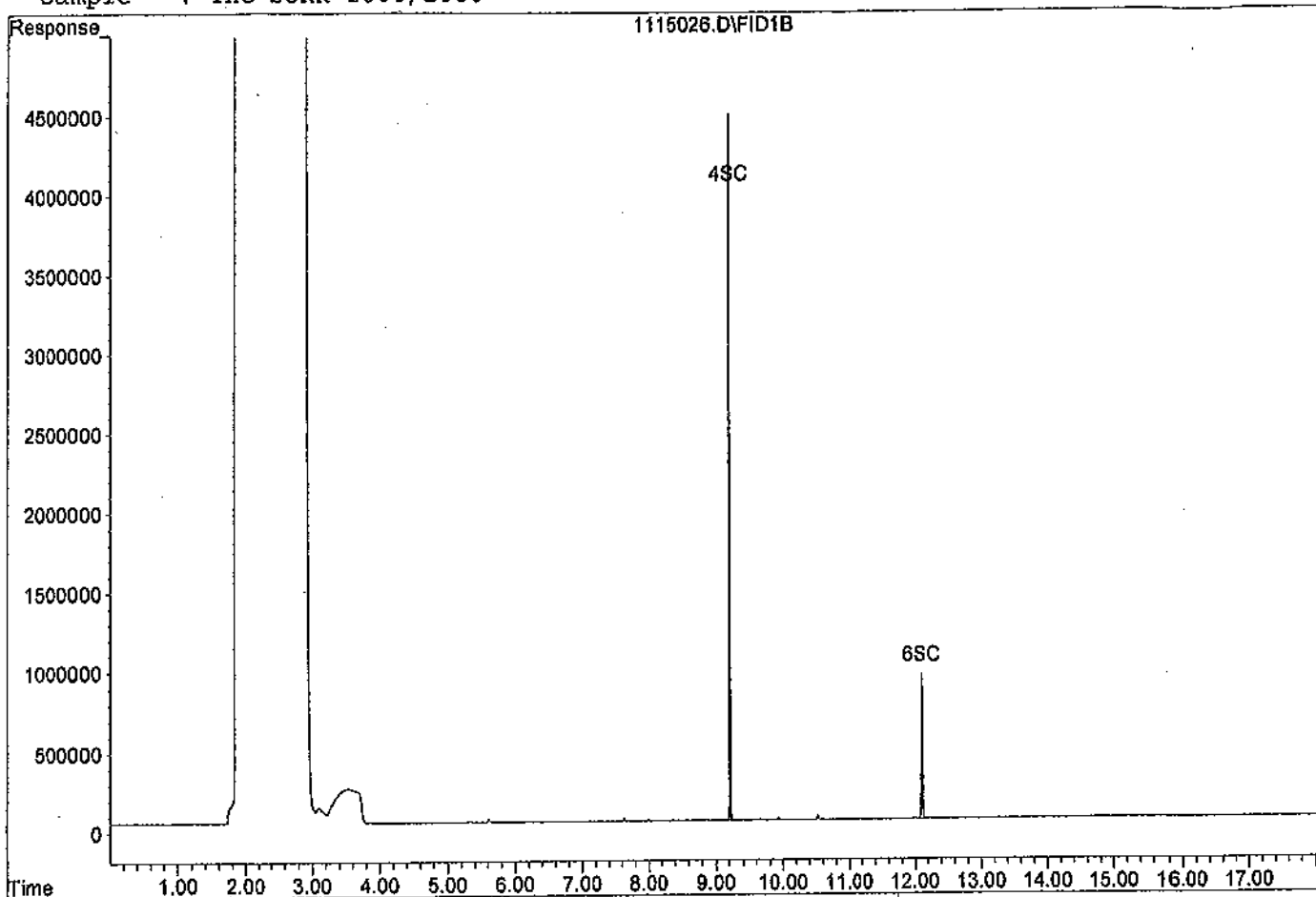
Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 17 09:41:49 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.21	30736073	48.174 ppb
Surrogate Spike 30.000		Recovery =	160.58%
6) SC Octacosane(S)	12.11	12029686	51.522 ppb
Surrogate Spike 30.000		Recovery =	171.74%
Target Compounds			

Data File: G:\APOLLO\DATA\111115\1115026.D

Sample : THC SURR 1000/1000



Data File : G:\APOLLO\DATA\111108\1108069.D Vial: 69
 Acq On : 11-9-11 17:18:58 Operator: LAC
 Sample : DIESEL 10/1000 11/8/11 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 9:53 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111108\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Wed Nov 16 09:55:03 2011
 Response via : Multiple Level Calibration

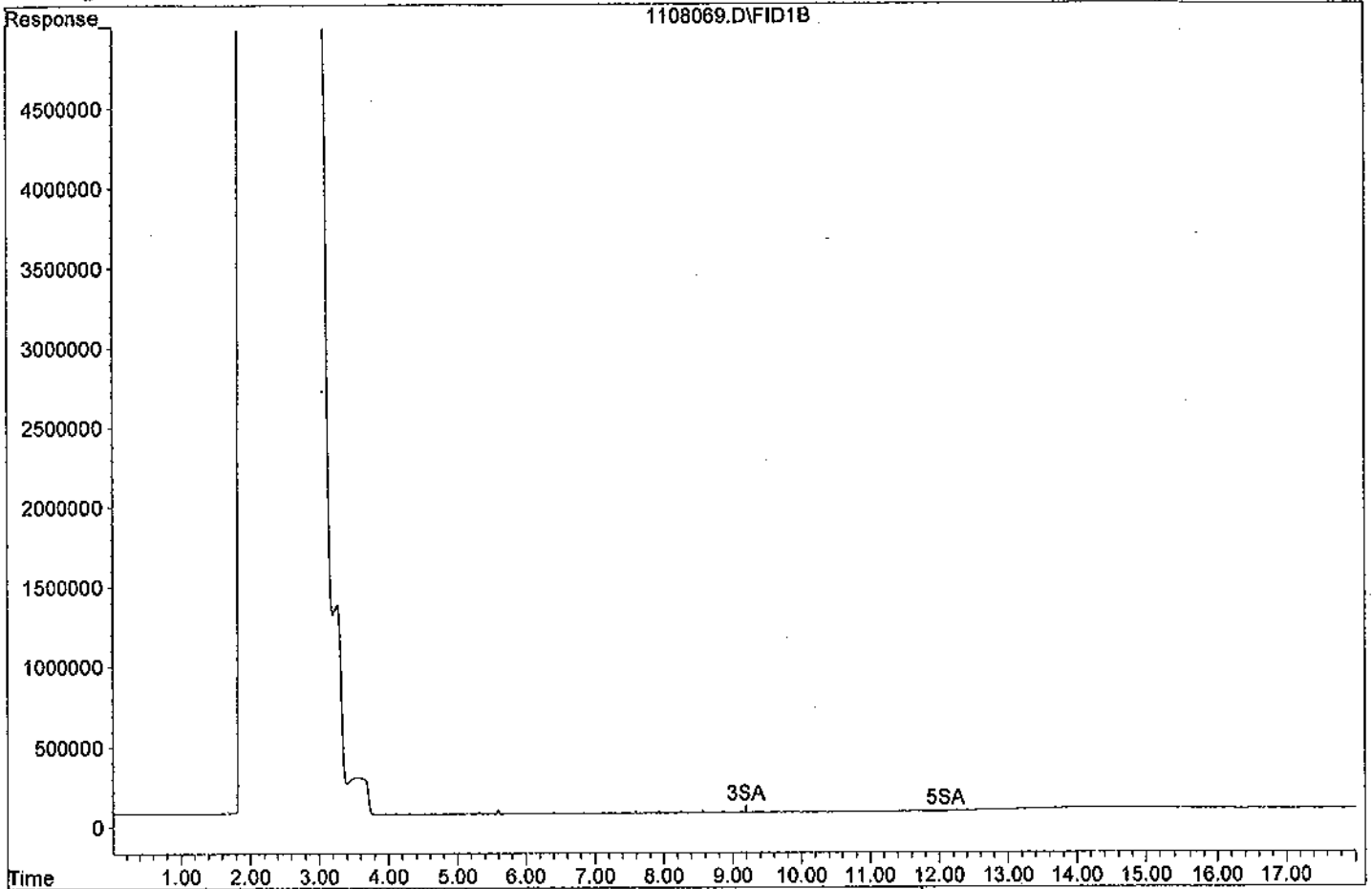
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Not Used(S)	9.20	302444	0.297 ppb
Surrogate Spike 30.000		Recovery =	0.99%
5) SA Not Used2(S)	12.10	625179	2.122 ppb
Surrogate Spike 30.000		Recovery =	7.07%
Target Compounds			
1) HATM Diesel (C10-C28)	9.01	12262633	1055.198 ppb

Data File: G:\APOLLO\DATA\111108\1108069.D

Sample : DIESEL 10/1000 11/8/11



Diesel (C10-C28)

Motor Oil (C18-C36)

6.00 8.00 10.00 12.00

10.00 12.00 14.00

TPH Extractables
TPH8S15

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: 66102
Date Analyzed: 11/09/11
Instrument: Apollo
Initial Cal. Date: 11/08/11
Data File: 1108070.D

	Compound	MEAN	CCRF	%D	%Drift
1	HATM Diesel (C10-C28)	305473	234327	23	HATML 4.9
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			23.0	

Data File : G:\APOLLO\DATA\111108\1108070.D Vial: 70
 Acq On : 11-9-11 17:42:38 Operator: LAC
 Sample : DIESEL 400 2ND SRC 11/8/11 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 9:52 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 17 09:41:49 2011
 Response via : Multiple Level Calibration

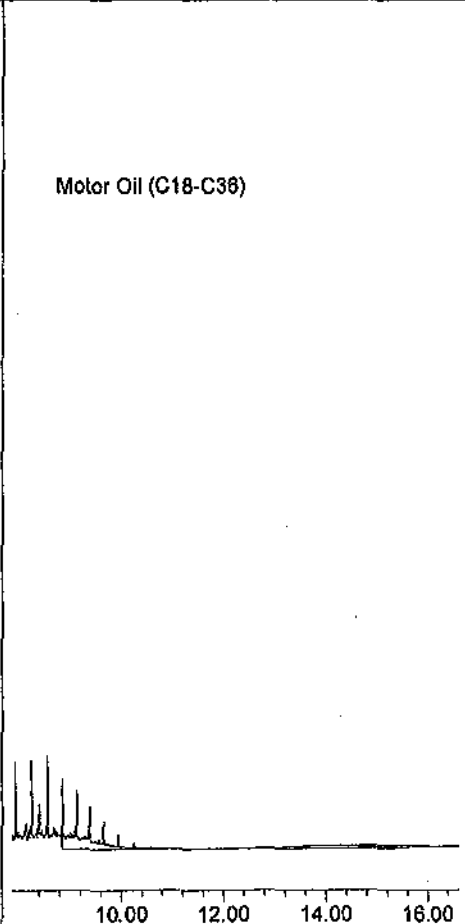
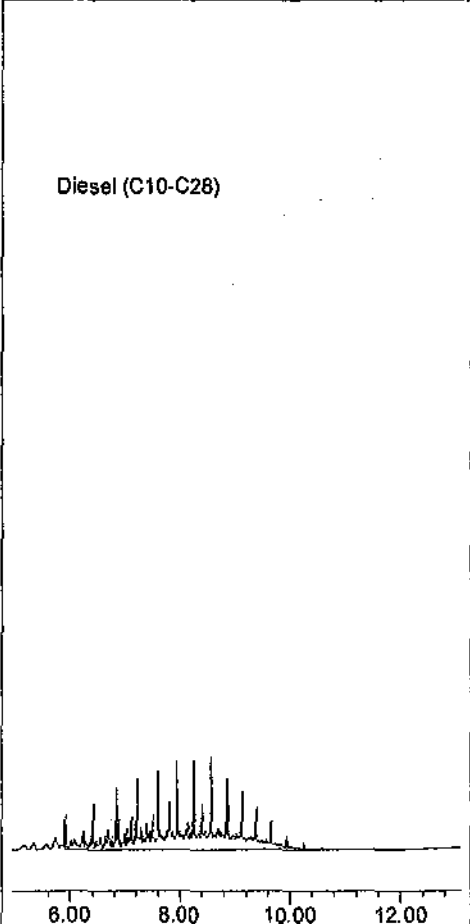
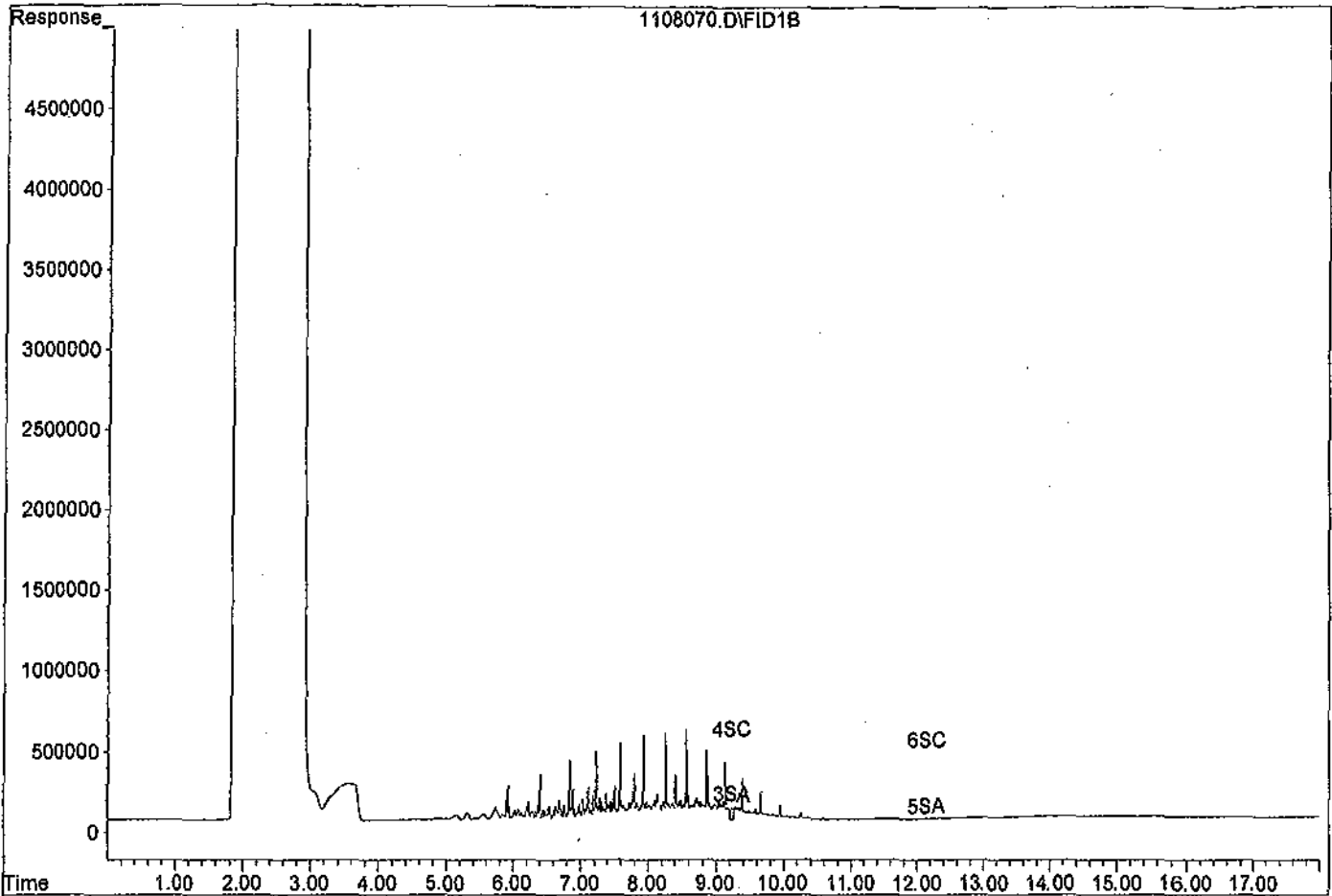
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.24	2204277	2.168 ppb
Surrogate Spike 30.000		Recovery =	7.23%
4) SC Ortho-Terphenyl(S)	9.24	2204277	3.455 ppb
Surrogate Spike 30.000		Recovery =	11.52%
5) SA Not Used2(S)	12.16	136311	0.463 ppb
Surrogate Spike 30.000		Recovery =	1.54%
6) SC Octacosane(S)	12.16	136311	0.584 ppb
Surrogate Spike 30.000		Recovery =	1.95%
Target Compounds			
2) HBTM Motor Oil (C18-C36)	12.24	65481078	788.357 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\111108\1108070.D

Sample : DIESEL 400 2ND SRC 11/8/11



TPH Extractables
TPH8S15

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: 66102
Date Analyzed: 11/29/11
Instrument: Apollo
Initial Cal. Date: 11/08/11
Data File: 1129012.D

	Compound	MEAN	CCRF	%D	%Drift
1	HATM Diesel (C10-C28)	305473	265441	13	HATML 7.9
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
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30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			13.0	

Data File : G:\APOLLO\DATA\111129\1129012.D Vial: 12
 Acq On : 11-29-11 13:06:20 Operator: LAC
 Sample : DIESEL 400/1000 11/29/11 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 29 16:12 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111123\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Nov 28 16:45:51 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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 System Monitoring Compounds

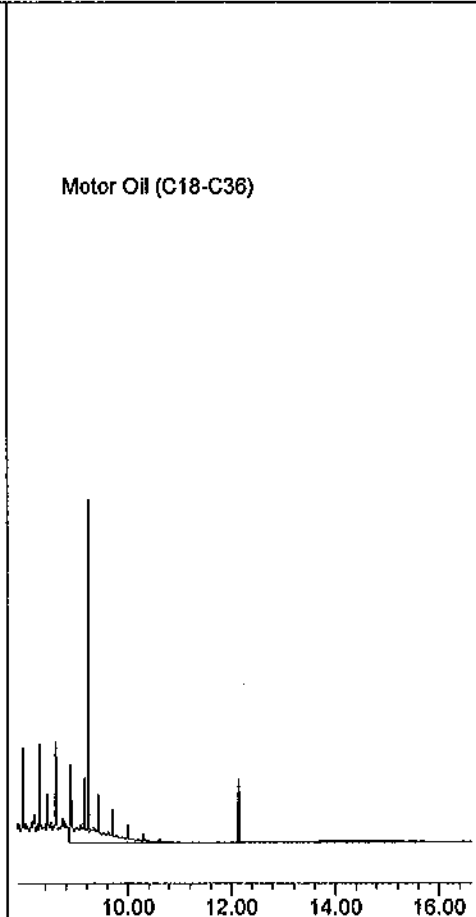
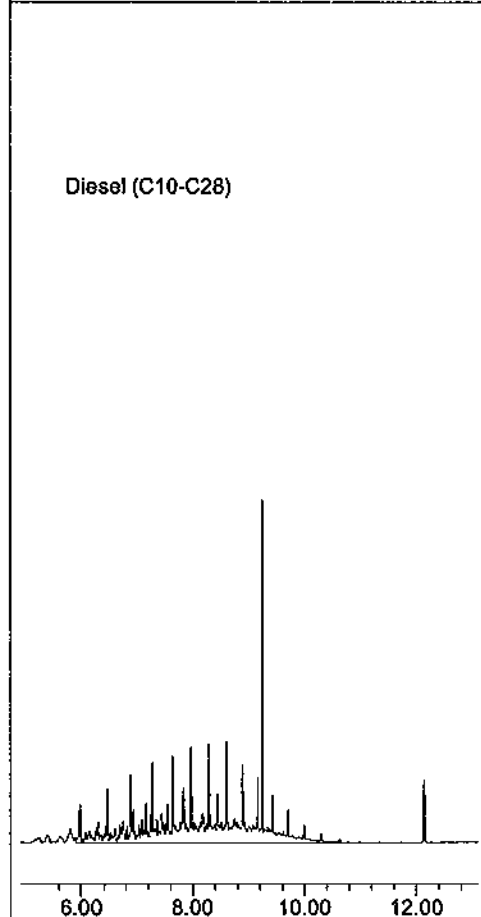
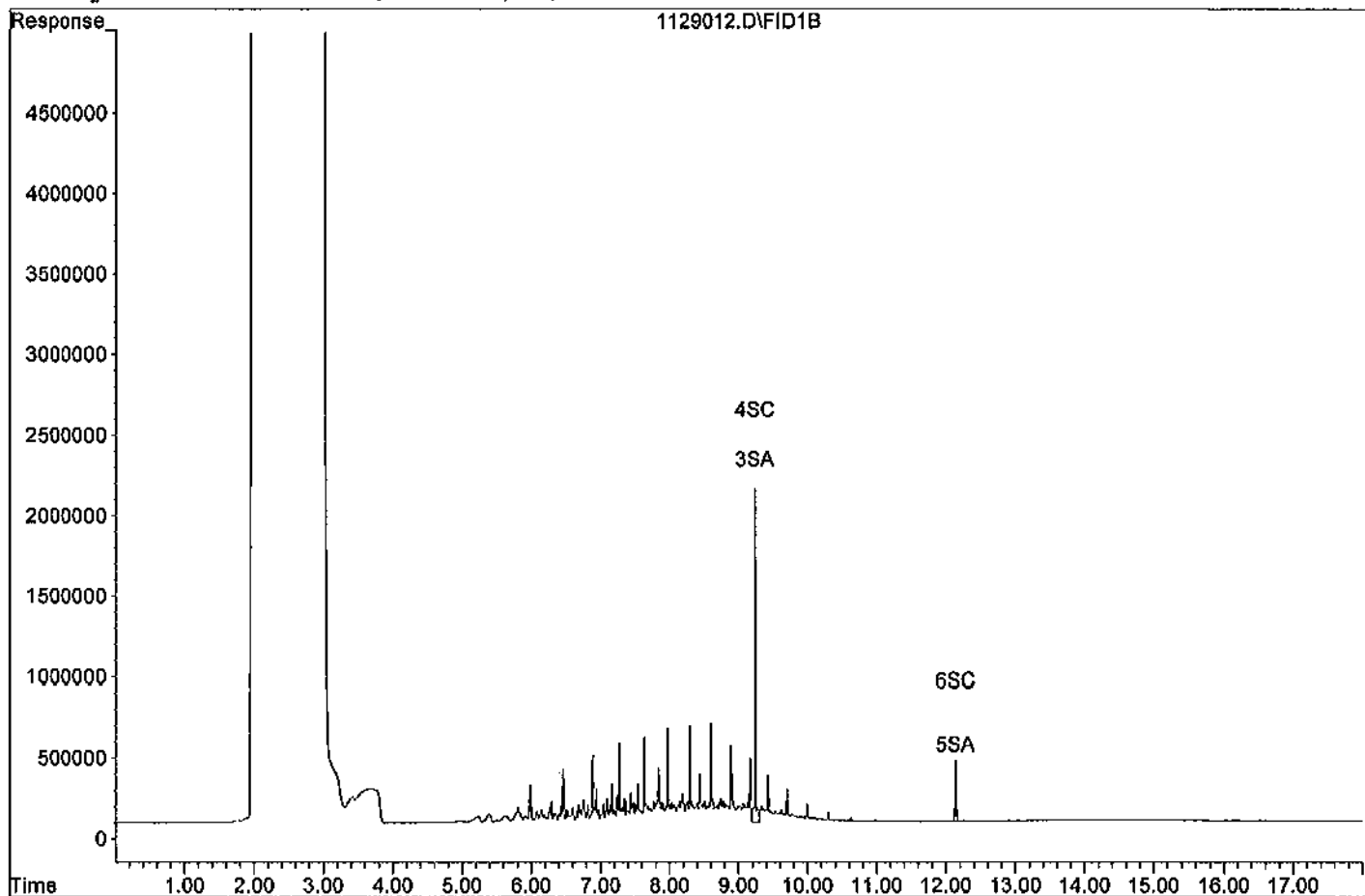
3) SA Not Used(S)	9.24	18448540	27.180 ppb
Surrogate Spike 30.000		Recovery =	90.60%
4) SC Ortho-Terphenyl(S)	9.24	18448540	28.915 ppb
Surrogate Spike 30.000		Recovery =	96.38%
5) SA Not Used2(S)	12.14	5020781	31.843 ppb
Surrogate Spike 30.000		Recovery =	106.14%
6) SC Octacosane(S)	12.14	5020781	21.038 ppb
Surrogate Spike 30.000		Recovery =	70.13%

Target Compounds

1) HATM Diesel (C10-C28)	9.01	212352743	431.747 ppb
2) HBTM Motor Oil (C18-C36)	12.24	65096224	280.338 ppb

Data File: G:\APOLLO\DATA\111129\1129012.D

Sample : DIESEL 400/1000 11/29/11



TPH Extractables
TPH8S15

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: 66102
Date Analyzed: 11/29/11
Instrument: Apollo
Initial Cal. Date: 11/08/11
Data File: 1129024.D

	Compound	MEAN	CCRF	%D	%Drift
1	HATM Diesel (C10-C28)	305473	278570	8.8	HATML 13
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
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30					
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32					
33					
34					
35					
36					
37					
38					
39					
40	Average			8.8	

Data File : G:\APOLLO\DATA\111129\1129024.D Vial: 24
 Acq On : 11-29-11 21:29:15 Operator: LAC
 Sample : DIESEL 400/1000 11/29/11 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 30 8:35 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111123\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Nov 28 16:45:51 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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 System Monitoring Compounds

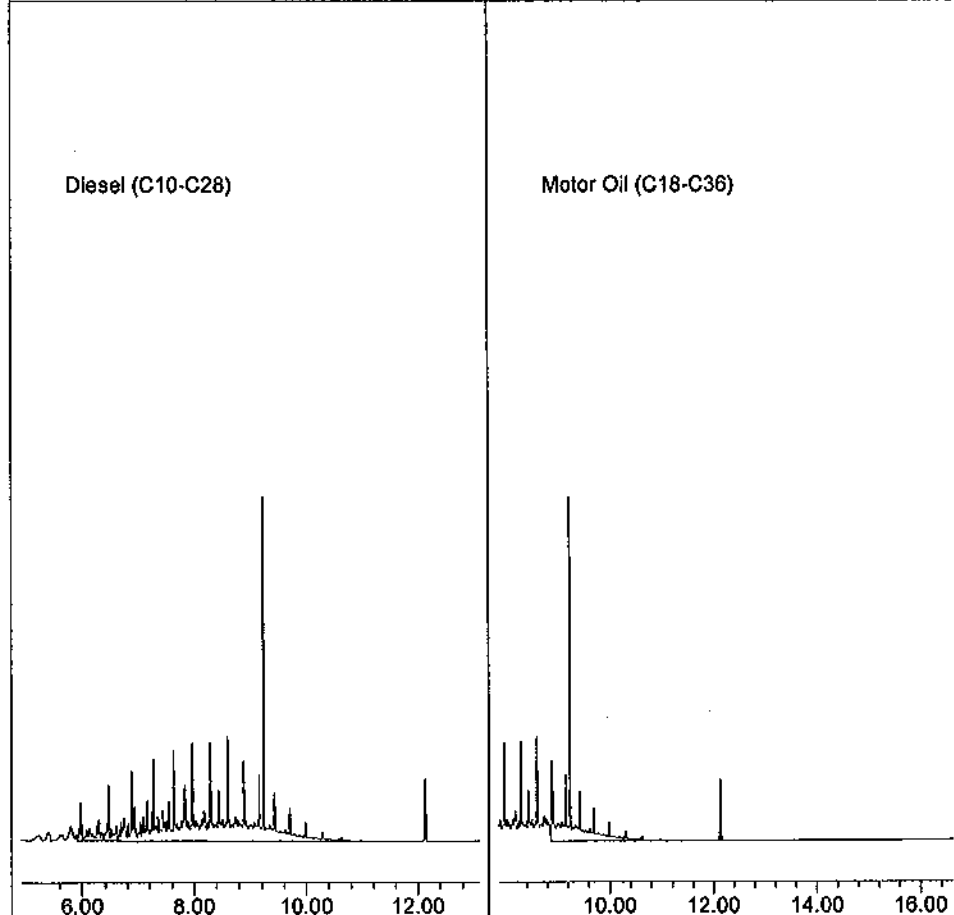
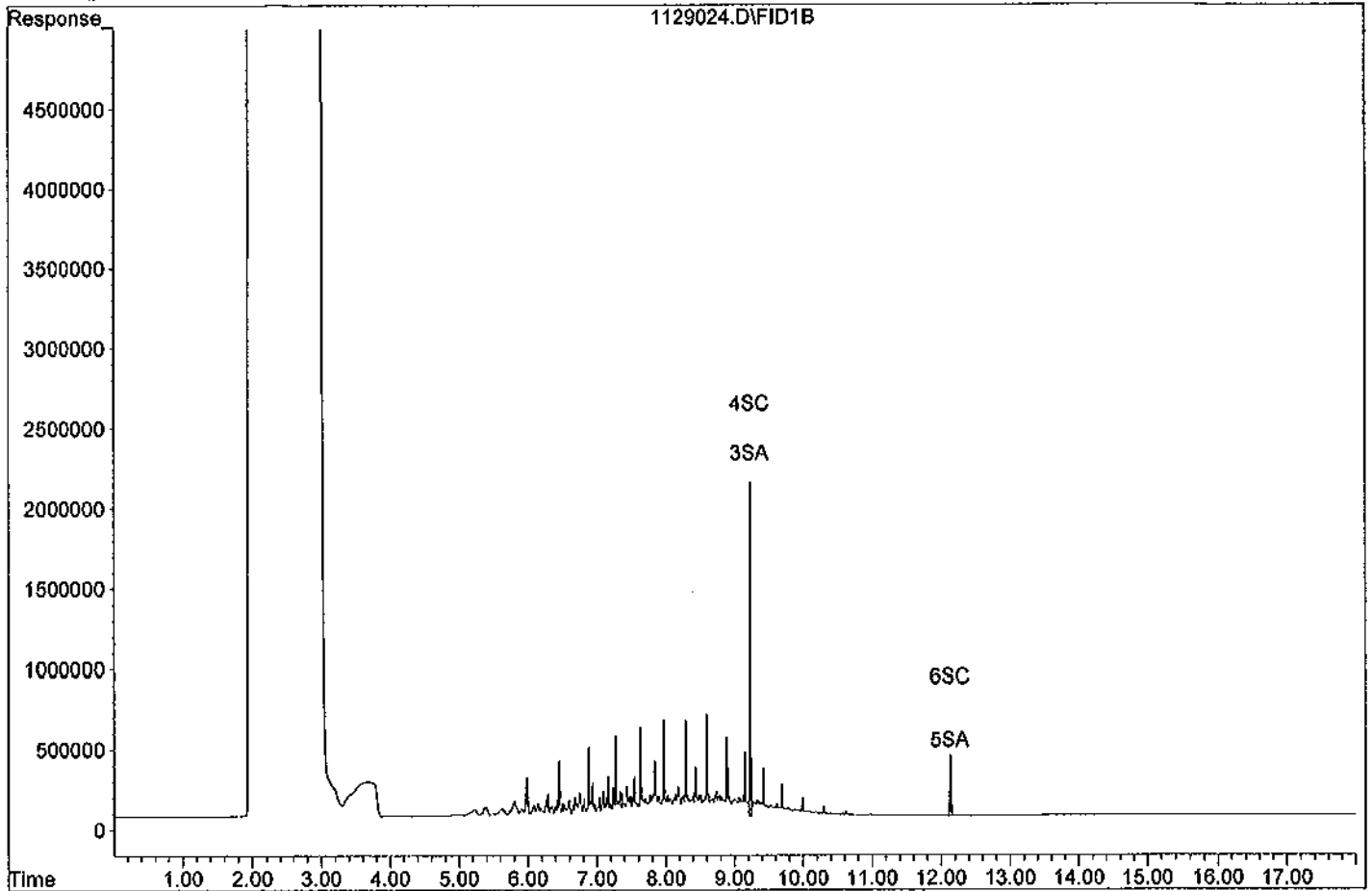
3) SA Not Used(S)	9.24	15158305	22.332 ppb
Surrogate Spike 30.000		Recovery =	74.44%
4) SC Ortho-Terphenyl(S)	9.24	15158305	23.758 ppb
Surrogate Spike 30.000		Recovery =	79.19%
5) SA Not Used2(S)	12.13	4847180	30.742 ppb
Surrogate Spike 30.000		Recovery =	102.47%
6) SC Octacosane(S)	12.13	4847180	20.311 ppb
Surrogate Spike 30.000		Recovery =	67.70%

Target Compounds

1) HATM Diesel (C10-C28)	9.01	222856237	453.399 ppb
2) HBTM Motor Oil (C18-C36)	12.24	69450604	299.090 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\111129\1129024.D
Sample : DIESEL 400/1000 11/29/11



**EPA 8015 Modified
Total Petroleum Hydrocarbons
Raw Data**

Method Blank
TPH Diesel Water

Blank Name/QCG: 111031W-49334 - 160886
Batch ID: #TPETD-111031A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	DIESEL FUEL	80.8 U	150	80.8	40.4	ug/L	10/31/11	11/06/11
BLANK	SURROGATE: OCTACOSANE (S)	71.2	28-142			%	10/31/11	11/06/11
BLANK	SURROGATE: ORTHO-TERPHEN	60.5	57-132			%	10/31/11	11/06/11

Quant Method: TPH1028.M
Run #: 1106005
Instrument: Apollo
Sequence: 111106
Initials: LA

GC SC-Blank-REG MDLs
Printed: 11/30/11 11:27:27 AM

Data File : G:\APOLLO\DATA\111106\1106005.D Vial: 5
 Acq On : 11-6-11 17:22:09 Operator: LAC
 Sample : 111031A BLK 5/1000 Inst : Apollo
 Misc : Water Multiplr: 5.00
 IntFile : events.e
 Quant Time: Nov 7 9:44 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

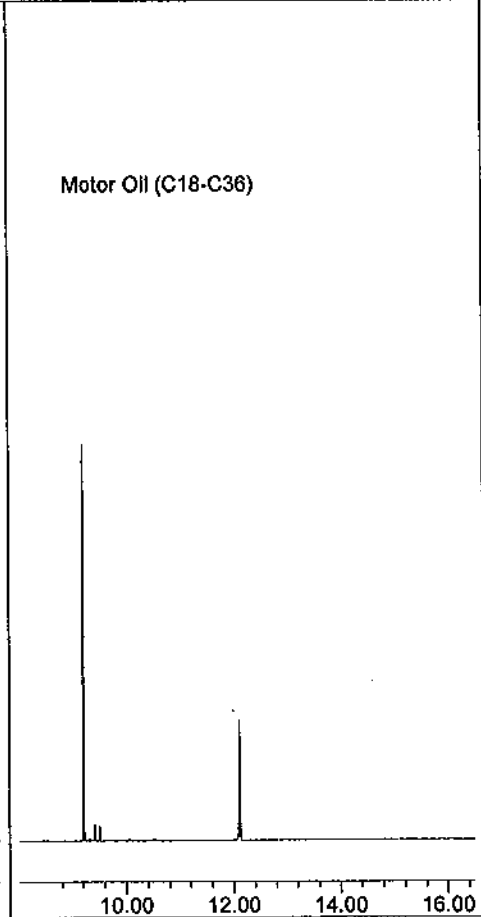
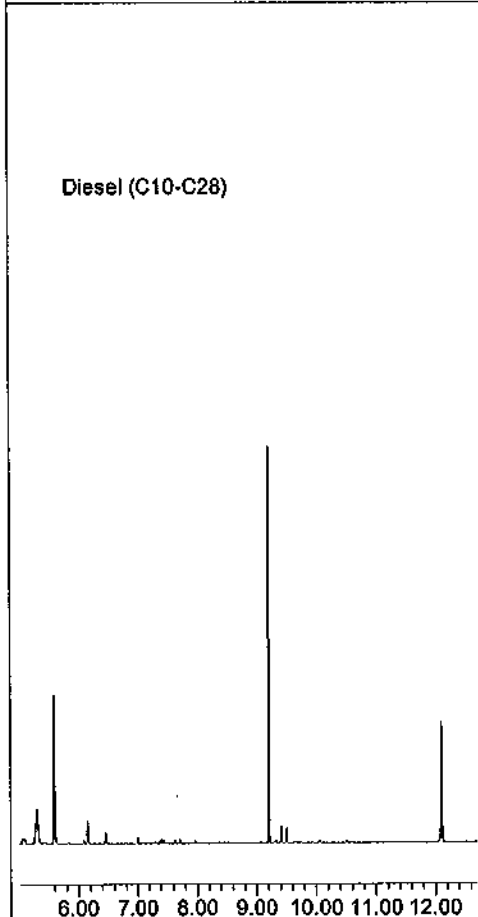
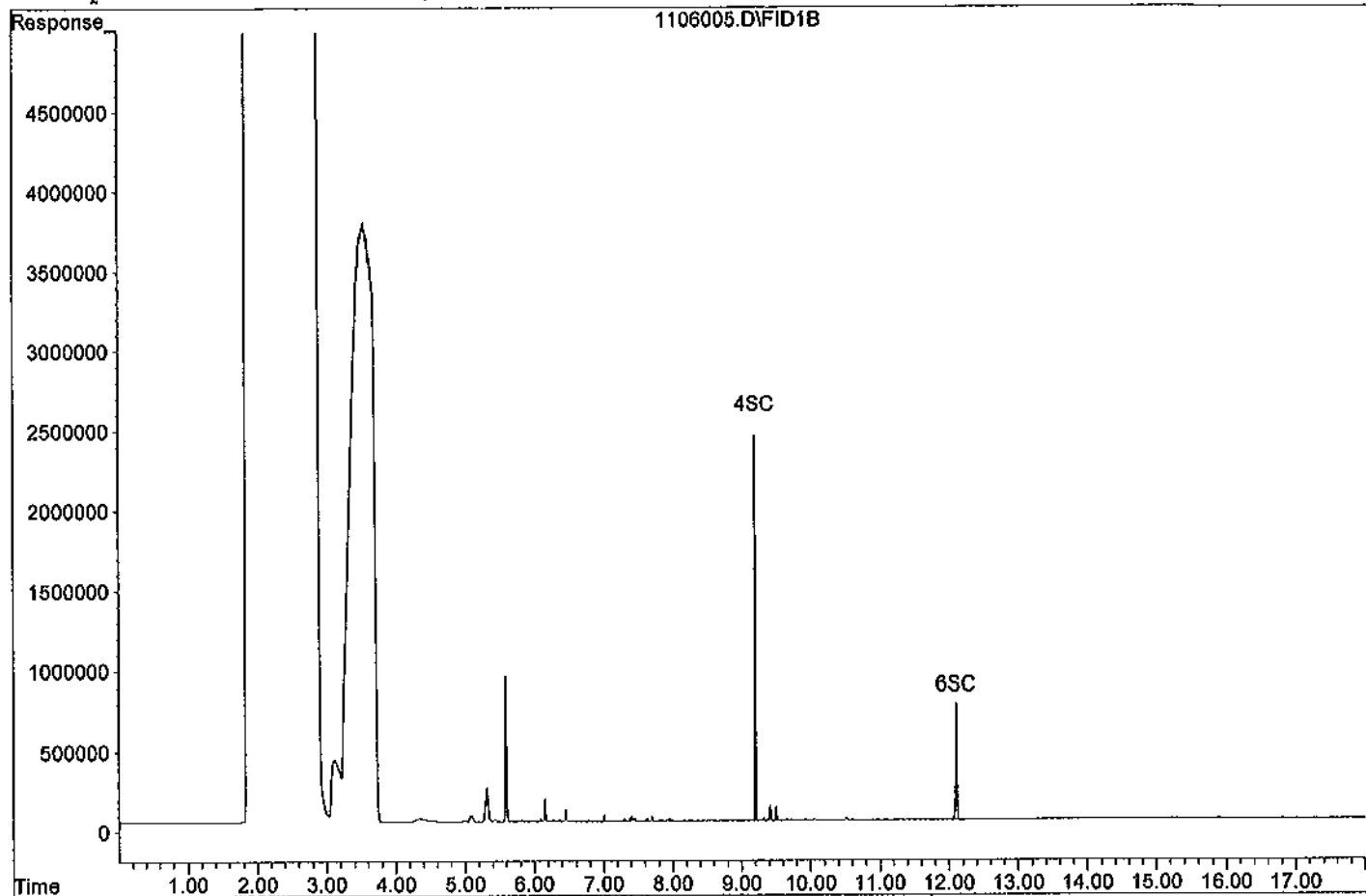
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.21	15818444	90.703 ppb
Surrogate Spike 150.000		Recovery =	60.47%
6) SC Octacosane(S)	12.11	9943034	106.834 ppb
Surrogate Spike 150.000		Recovery =	71.22%

Target Compounds

Data File: G:\APOLLO\DATA\111106\1106005.D

Sample : 111031A BLK 5/1000



Laboratory Control Spike Recovery
TPH Diesel Water

APPL ID: 111031W-49334 LCS - 160886
 Batch ID: #TPETD-111031A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
DIESEL FUEL	2000	1520	76.0	61-143
SURROGATE: OCTACOSANE (S)	150	125	83.3	28-142
SURROGATE: ORTHO-TERPHENYL (S)	150	147	98.0	57-132

Comments: _____

<u>Primary</u>	<u>SPK</u>
Quant Method :	TPH8S15.M
Extraction Date :	10/31/11
Analysis Date :	11/29/11
Instrument :	Apollo
Run :	1129017
Initials :	LA

Printed: 11/30/11 11:27:21 AM

APPL Standard LCS

Data File : G:\APOLLO\DATA\111129\1129017.D Vial: 17
 Acq On : 11-29-11 18:45:15 Operator: LAC
 Sample : 111031A LCS-1 5/1000 Inst : Apollo
 Misc : Water Multiplr: 5.00
 IntFile : events.e
 Quant Time: Nov 30 10:29 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111123\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Nov 28 16:45:51 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

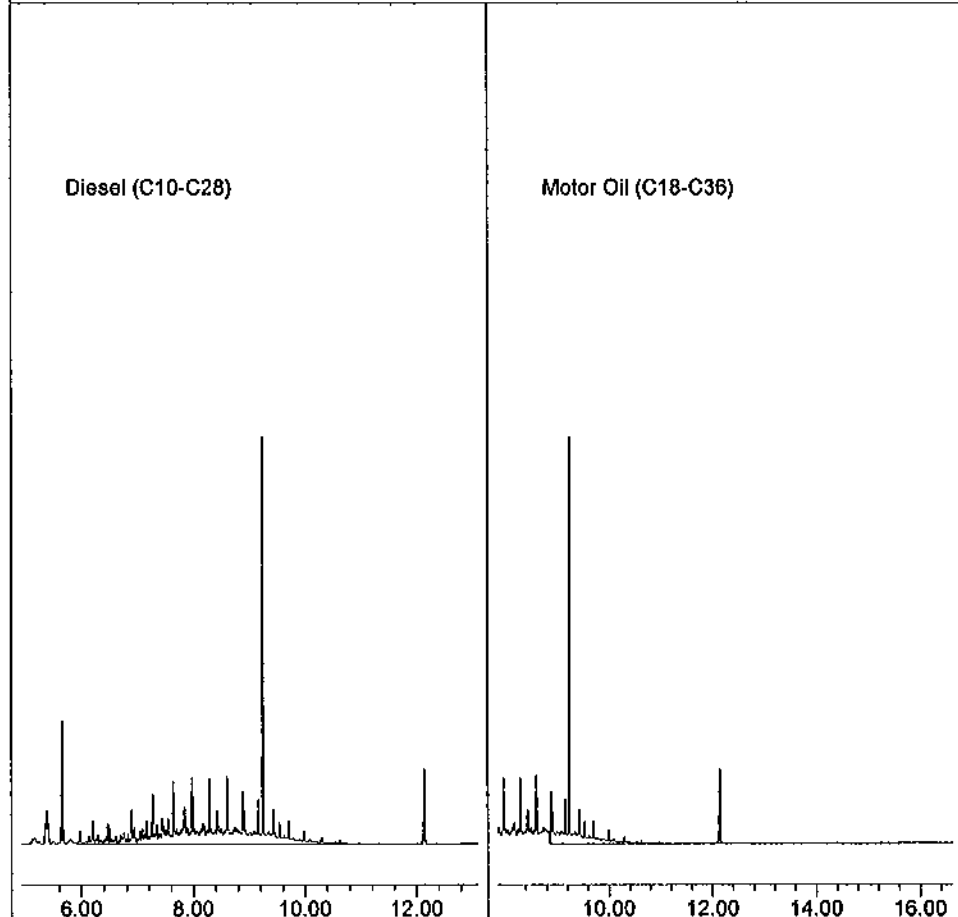
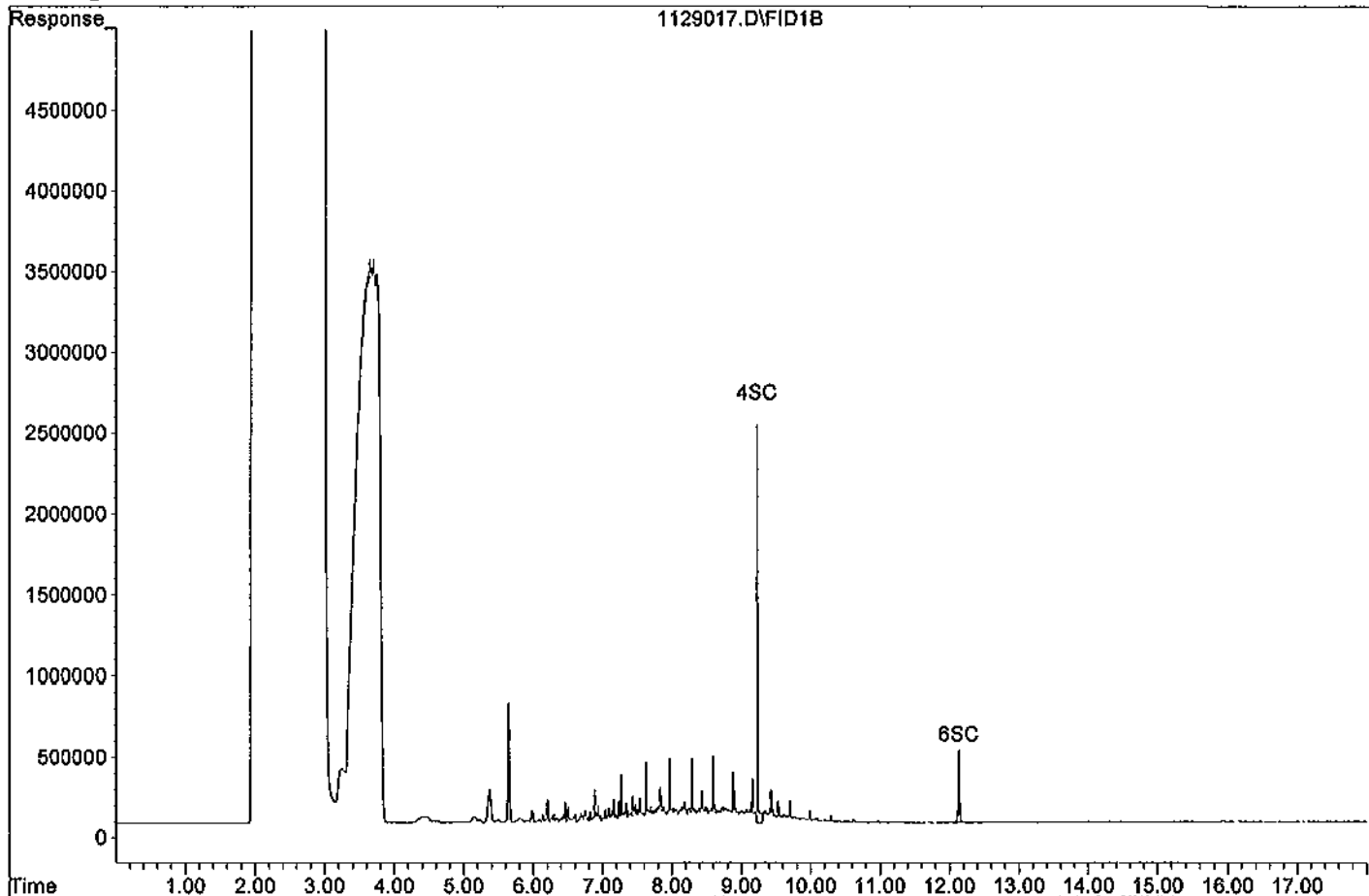
Compound R.T. Response Conc Units

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.24	18706073	146.595 ppb
Surrogate Spike 150.000		Recovery =	97.73%
6) SC Octacosane(S)	12.14	5944718	124.549 ppb
Surrogate Spike 150.000		Recovery =	83.03%
Target Compounds			
1) HATM Diesel (C10-C28)	9.01	150395375	1520.130 ppb
2) HBTM Motor Oil (C18-C36)	12.24	50801855	1093.895 ppb

Algorithm Check:
$$\frac{(18706073)(5)}{(319010)(2)} = 146.59457227$$
 UAC 11/30/11
 UAC 11/30/11

Data File: G:\APOLLO\DATA\111129\1129017.D

Sample : 111031A LCS-1 5/1000



Matrix Spike Recoveries

TPH Diesel Water

APPL ID: 111031W-49334 MS - 160886

Batch ID: #TPETD-111031A

Sample ID: AY49334

Client ID: ES047

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
DIESEL FUEL	2000	730	1400	1330	33.5 #	30.0 #	61-143	5.1	30
SURROGATE: OCTACOSANE (S)	150	NA	131	125	87.3	83.3	28-142		
SURROGATE: ORTHO-TERPHENYL (S)	150	NA	108	89.3	72.0	59.5	57-132		

= Recovery is outside QC limits.

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	TPH1028.M	TPH1028.M
Extraction Date :	10/31/11	10/31/11
Analysis Date :	11/06/11	11/06/11
Instrument :	Apollo	Apollo
Run :	1106014	1106015
Initials :	LA	

Printed: 11/30/11 11:27:18 AM
APPL MSD SCII

Data File : G:\APOLLO\DATA\111106\1106014.D Vial: 14
 Acq On : 11-6-11 20:53:41 Operator: LAC
 Sample : AY49334W35 MS-1 5/1030 Inst : Apollo
 Misc : Water Multiplr: 4.85
 IntFile : events.e
 Quant Time: Nov 7 9:50 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

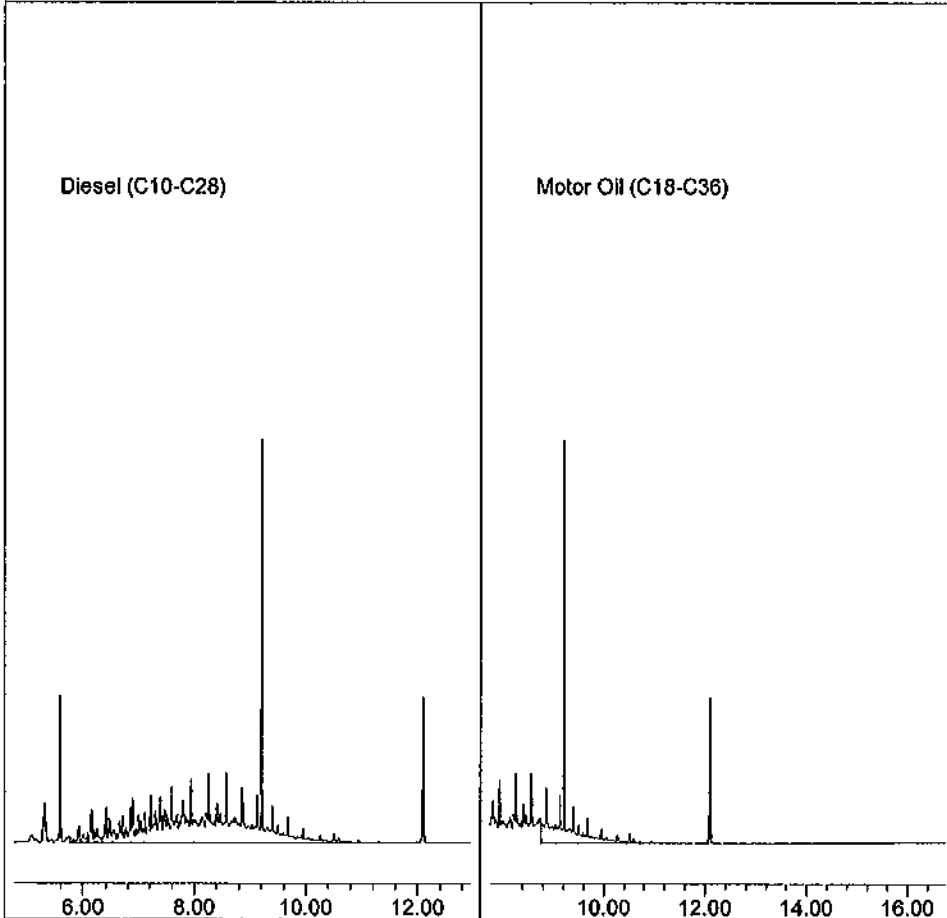
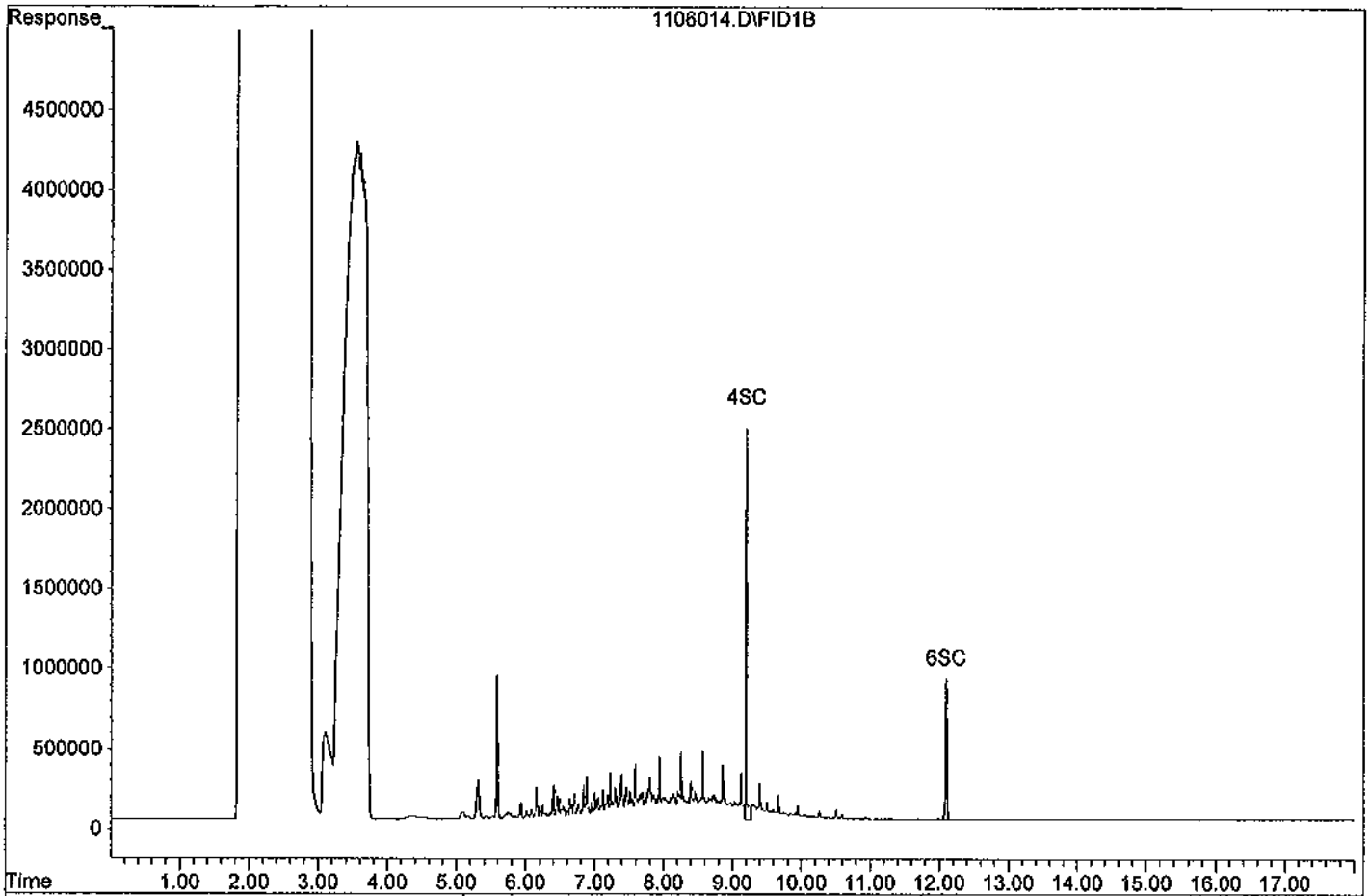
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.21	19333669	107.631 ppb
Surrogate Spike 145.631		Recovery =	73.91%
6) SC Octacosane(S)	12.10	12570361	131.129 ppb
Surrogate Spike 145.631		Recovery =	90.04%
Target Compounds			
1) HATM Diesel (C10-C28)	8.86	243258357	1402.635 ppb
2) HBTM Motor Oil (C18-C36)	12.25	67181515	899.542 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\111106\1106014.D
Sample : AY49334W35 MS-1 5/1030



Data File : G:\APOLLO\DATA\111106\1106015.D Vial: 15
 Acq On : 11-6-11 21:17:05 Operator: LAC
 Sample : AY49334W36 MSD-1 5/1030 Inst : Apollo
 Misc : Water Multiplr: 4.85
 IntFile : events.e
 Quant Time: Nov 7 9:50 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

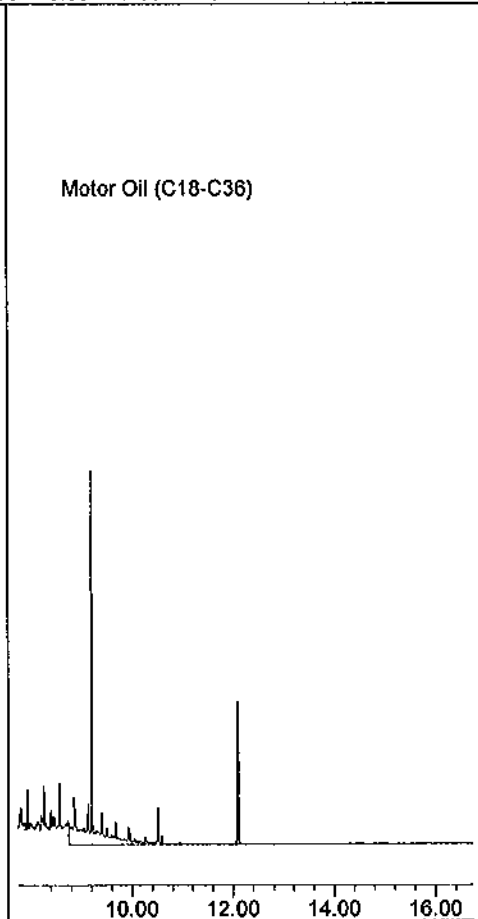
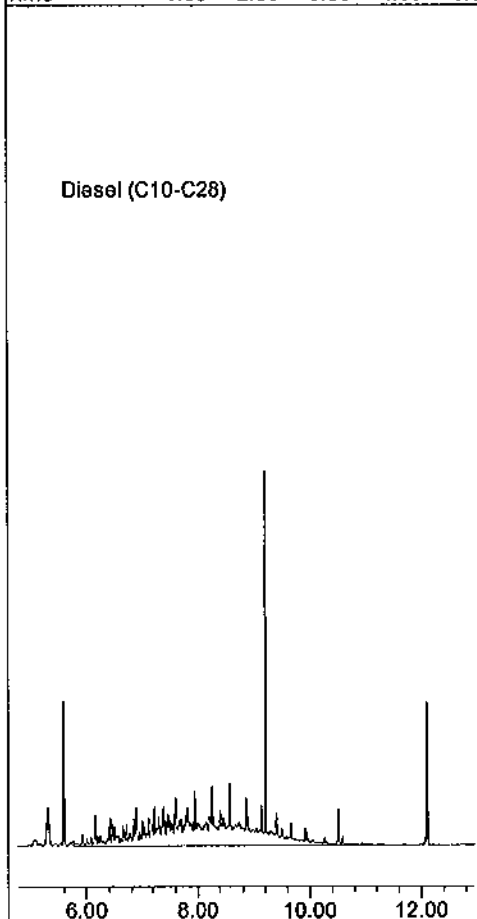
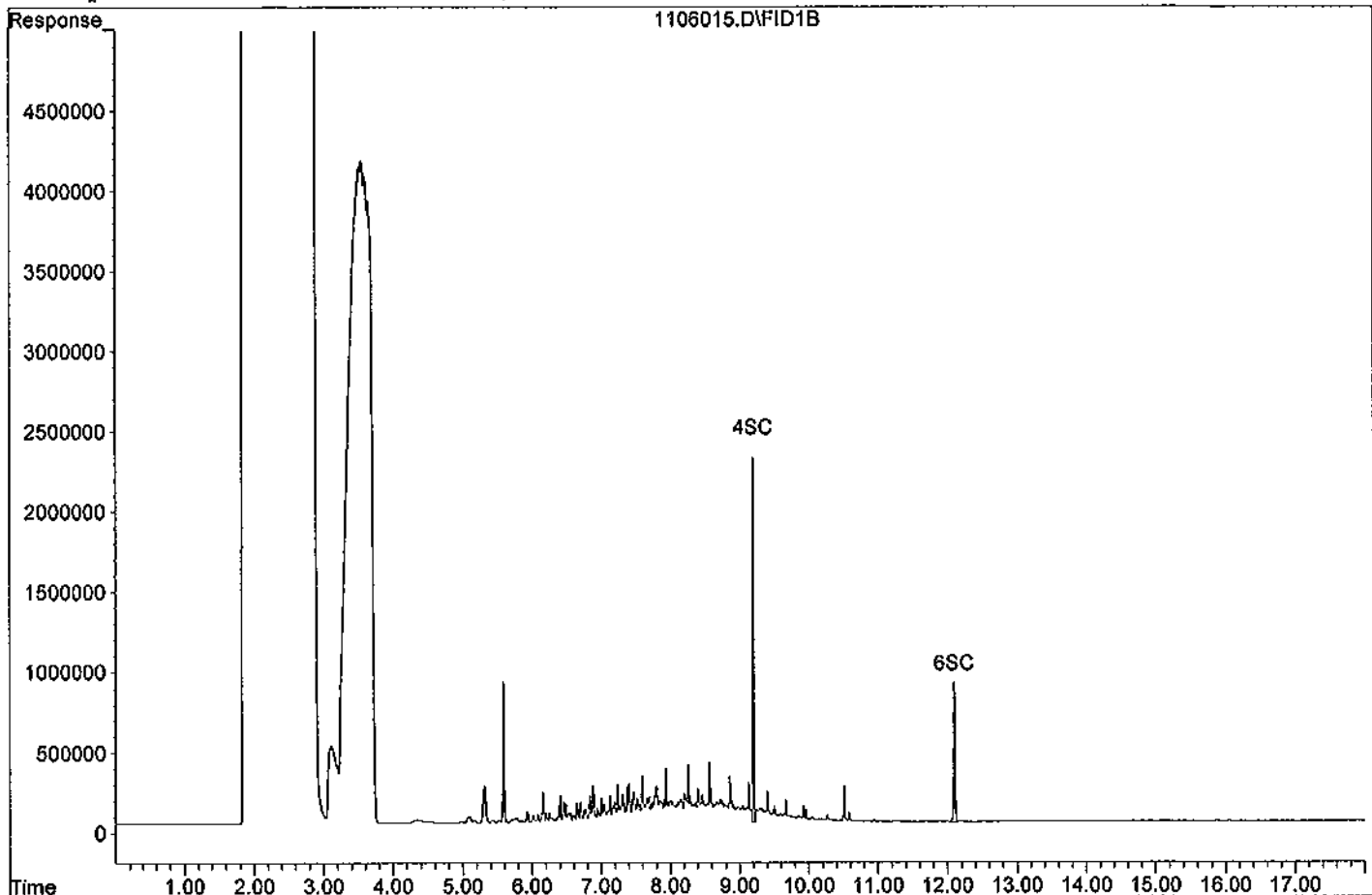
4) SC Ortho-Terphenyl(S)	9.21	16036435	89.275 ppb
Surrogate Spike 145.631		Recovery =	61.30%
6) SC Octacosane(S)	12.10	11966186	124.827 ppb
Surrogate Spike 145.631		Recovery =	85.71%

Target Compounds

1) HATM Diesel (C10-C28)	8.86	230106893	1326.804 ppb
2) HBTM Motor Oil (C18-C36)	12.25	67186331	899.607 ppb

Data File: G:\APOLLO\DATA\111106\1106015.D

Sample : AY49334W36 MSD-1 5/1030



STANDARD

INITIAL CONC SOURCE DATE ALIQUOT VOLUME FINAL VOLUME FINAL CONC SOLVENT LOT # 029

MOTOR OIL SPIKE

MOTOR OIL 5000mg/ml 02S1 200ml 50ml 200mg/ml MC #0701118 8/5/11

02si smart solutions
Motor Oil Composite, 50,000 mg/L, 1 ml
116390-02 Storage: <= -10 Degrees C
Made in USA Lot No: 161898 Solvent: Methylene Chloride
Exp: 7/23/2013
Date Op: MOTOR OIL COMPOSITE
Lot #: 161898 - 28613
Rec: 4/14/11 MFR exp. 07/23/13

02si smart solutions
Motor Oil Composite, 50,000 mg/L, 1 ml
116390-02 Storage: <= -10 Degrees C
Made in USA Lot No: 161898 Solvent: Methylene Chloride
Exp: 7/23/2013
Date Op: MOTOR OIL COMPOSITE
Lot #: 161898 - 28614
Rec: 4/14/11 MFR exp. 07/23/13

EX:
11/5/14

OCL/OP WATER SURROGATE

DAC 5000mg/ml 0281 30ml 100ml 1.5mg/ml ACETONE #011011C 8/5/11

02si smart solutions
Pesticide Surrogate Solution, 5,000 mg/L, 1 ml
Cat. No: 130070-02 Exp: 12/19/2012
Lot No: 154164 Storage: <= Ambient
-27593 Solvent: Tol.:Hex. 1:1
Not for Human Consumption For Research Use Only
Made in USA Date Opened: 8/5/11 EX: 8/5/12

8/5/11

TBP 1000mg/ml 02S1 500ml 5mg/ml

02si smart solutions
Tributyl- and Triphenylphosphate Solution, 1,000 mg/L, 1 ml
Cat. No: 130161-02 Exp: 7/12/2012
Lot No: 148444 Storage: <= -10 Degrees C
-27667 Solvent: Acetone
Not for Human Consumption For Research Use Only
Made in USA Date Opened: 8/5/11 EX: 8/5/12

8/5/11

OCL/OP SOIL SURROGATE

DAC 5000mg/ml 0281 400ml 100ml 20mg/ml ACETONE #011011C 8/5/11

CAT: 130070-02
LOT: 154164-27593
OP: 8/5/11 EX: 8/5/12

EX: 11/5/14

TBP 1000mg/ml 02S1 500ml 5mg/ml

CAT: 130161-02
LOT: 148444-27667
OP: 8/5/11
EX: 7/12/12

033

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT LOT#	
		THC SURROGATE					(* GAVE TO EXTRACTION)
OTERAPENYL	600mg/ml	02S1	N/A	25ml	600mg/ml	N/A	8/8/11
OCTACANE		CAT: 110316-05					EX: 8/8/12
		LOT: 170258-29333					
		OP: 8/8/11					
		EX: 8/8/12					

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT LOT#	
		THC SURROGATE					
OTERAPENYL	600mg/ml	02S1	N/A	25ml	600mg/ml	N/A	8/8/11
OCTACANE		CAT: 110316-05					EX: 8/8/12
		LOT: 176405-29334					
		THRU					
		176405-29337					
		OP: 8/8/11					
		EX: 8/8/12					

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT LOT#		
		OCL Degradation Check						
DDT	100mg/ml	02S1	250ml	50ml	0.5mg/ml	HEXANE	8/11/11	
DDD		CAT: 130109-01				#082610B	EX: 2/11/12	
DDE		OC Pesticide Degradation Check						
		LOT: Lot #: 176400-29311						
		Rec: 8/8/11 MFR exp. 07/29/14						
ENDRIN		OP: 8/11/12						
ENDRIN KETONE		EX: 8/11/12						
ENDRIN ALDEHYDE								

STANDARD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT LOT#		
		OCL STOCK						
VARIOUS ANALYTES	100mg/ml	02S1	100ml	10ml	10mg/ml	Hexane	8/11/11	
		Organochlorine Pesticide Solution 20, 100 mg/L, 1ml				#082610B	EX: 8/11/12	
		Lot #: 176673-29347						
		Rec: 8/9/11 MFR exp. 08/02/14						

STANDARD
052

INITIAL
CONC

SOURCE
DATE

ALIQUOT
VOLUME

FINAL
VOLUME

FINAL
CONC

SOLVENT
LOT #

DATE /
INITIALS

DIESEL STANDARD

DIESEL
FUEL #2

50.000ml

0251

1000ml

50ML

1000ml

MC

Ⓟ

Diesel Fuel #2 Composite,
50,000 mg/L, 1 ml

111598-83

Lot # Storage Expiry
167768 -5-10 Degree C 2/15/15

Soln: Methylene Chloride

Diesel Fuel #2 Composite OP: 9/1/11

Lot #: 167768 - 28178 EX: 9/1/12

Rec: 1/20/11 MFR exp. 02/15/15

051711B

9/1/11
EX:
3/1/12

DITRACOSANE
D-TERPENTENOL

1000ml

0251

4170ml

500ml

CAT: 110316-05

LOT: 176405-29337

OP: 9/1/11

EX: 9/1/12

MOTOR OIL STANDARD

MOTOR OIL

50.000ml

0251

1000ml

50ML

1000ml

MC

Ⓟ

Motor Oil Composite, 50,000 mg/L, 1 ml

0251 116390-02

Storage: -5-10 Degree C

Solvent: Methylene Chloride

Lot No: 161898

Exp: 7/23/13

Motor oil composite

Lot #: 161898 - 28615

Rec: 4/14/11 MFR exp. 07/23/13

OP: 9/1/11
EX: 9/1/12

051711B

9/1/11
EX:
3/1/12

DIESEL 2ND SOURCE

DIESEL
FUEL #2

50.000ml

0251

1000ml

50ML

1000ml

MC

Ⓟ

Diesel Fuel #2 Composite,
50,000 mg/L, 1 ml

111598-83

Lot # Storage Expiry
167769 -5-10 Degree C 2/15/15

Soln: Methylene Chloride

Diesel Fuel #2 Composite OP: 9/1/11

Lot #: 167769 - 28397 EX: 9/1/12

Rec: 8/28/11 MFR exp. 02/15/15

051711B

9/1/11
EX:
3/1/12

STANDARD

INITIAL CONC SOURCE DATE ALIQUOT VOLUME FINAL CONC FINAL CONC SOLVENT LOT# DATE

KEROSENE/JP5 STD

STD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOL.	FINAL CONC	SOLVENT / LOT#
JP5/ KEROSENE	50,000 µg/ml	O2SI CAT #010597-S50 LOT# 159381 OP: 4/18/11 EX: 4/18/12	600 µL	25 mL	1000 µg/ml	MC LOT# 032811C

LAC
10/18/11
EX:
4/18/12

KEROSENE/JP5 CURVE

STANDARD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
Kerosene	1000		10/18/2011	4/18/2012	50	100	400	600	800	1000
JP5	MC	032811C			950	900	600	400	200	NA
			Final VOL.		1000	1000	1000	1000	1000	1000

LAC
10/18/11
EX:
4/18/12

DIESEL GCV 400ug/ml

STANDARD	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL.	FINAL CONC.	SOLVENT /LOT#
DIESEL STD.	1000UG/ML	O2SI	400µL	1mL	400 µg/ml	MC
		9/1/2011	3/1/2012			051711B

LAC
10/18/11
EX:
3/1/12

MOTOR OIL GCV 400UG/ML

STANDARD	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL.	FINAL CONC.	SOLVENT /LOT#
MOTOR OIL STD	1000UG/ML	O2SI	400µL	1mL	400 µg/ml	MC
		9/1/2011	3/1/2012			051711B

PRODIAMINE STANDARD

diamine 1000µg/ml O2SI 10ml 10ml 1µg/ml ACETONE
 CAT: 031919-02 # 01101C
 LOT: 161445-26939
 OP: 10/19/11
 EX: 7/1/12

LAC
10/19/11
EX:
4/19/12

Prodlamine Curve

PREP DATE:	10/19/2011										
EXP:	4/19/2012										
SUPPLIER	ID#	µg/mL	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
Prodlamine		1		10/19/2011	4/19/2012	5	50	100	150	200	250
HEXANE			082610B			995	950	900	850	800	750
				Final VOL.		3000	1000	1000	1000	1000	1000

LAC
10/19/11
EX:
4/19/12

STANDARD
082

INITIAL SOURCE FINAL SOLVENT DATE / DATE /
CONC DATE ALIQUOT VOLUME CONC LOT# INITIALS

DIESEL SPIKE

DIESEL FUEL #2	500000ul	02si	2000ul	50ml	2000ug/ml	mc	
	OP: 10/21/11		OP: 10/21/11			# 51204	10/21/11
	EX: 10/21/12		EX: 10/21/12				EX: 1/21/12
	Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml		Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml				
	Lot #: 179635 - 29641		Lot #: 179635 - 29642				
	Rec: 10/13/11 MFR exp. 11/08/15		Rec: 10/13/11 MFR exp. 11/08/15				

508 AMPULE

VARIOUS ANALYTES	100/2000ul	02si	N/A	1ml	100/2000ug/ml	N/A	
							10/21/11
							EX: 10/21/12
	OCC Pesticide Standard, 100/2000 mg/L, 1 ml						
	Cat. No: 130200-02						
	Lot No: 156275						
	OCC Pesticide 100/2000mg/L						
	Lot #: 156275 - 28160						
	Rec: 2/23/10 MFR exp: 02/21/13						

508 CALIBRATION CURVE

Compound	Conc. In Mix	Conc. Of Stock	Aliquot	stock source	Final Vol.	Solvent Lot#
alachlor	(1) 0.005/0.1	5/100ug/ml	10ul	508 stock	10 mL	Hexane
benfluralin	(2) 0.03/0.6	5/100ug/ml	80ul	prep: 4/8/11	10 mL	# 082610B
captan	(3) 0.05/1.0	5/100ug/ml	250ul	Exp: 1/25/12	25 mL	
carbofenthothion	(4) 0.1/2.0	5/100ug/ml	200ul		10 mL	
chlorothalonil	(5) 0.15/3.0	5/100ug/ml	300ul		10 mL	
chlorothal(dacihal)	(6) 0.2/4.0	5/100ug/ml	400ul		10 mL	
2,6 dichlorobenzonitrile(dicofol)						
kellthane						
nitrofen						
oxadiazon						
oxyfluorfen						
propachlor						
op DDD						
op DDE						
op DDT						
bis(2-ethylhexyl)phthalate						

508 2ND SRC

Compound	Init. Conc.	Stock Src	Aliquot	Final Vol	Final Conc.	Solvent Lot#
See Above	5/100 ug/ml	508 2nd Src Stock	250 uL	25 mL	0.05/1 ug/ml	Hexane
		Prep: 10/21/11				082610B
		Exp: 4/8/12				

STANDARD
088

INITIAL CONC DATE ALIQUOT VOLUME FINAL CONC SOLVENT LOT # DATE INITIALS

LAC 10/28/11

TCH SURROGATE CURVE										
STD	[ug/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
THC SURR	50	176405	10/17/2011	4/17/2012	50	100	400	600	800	1000
MC		51204			950	900	800	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

LAC
10/28/11
EX: 4/17/12

DIESEL CURVE										
STD	[ug/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
DIESEL	1000		10/28/2011	4/28/2012	10	100	400	600	800	1000
MC		51204			950	900	800	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

LAC
10/28/11
EX: 4/28/12

MOTOR OIL CURVE										
STD	[ug/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
MOTOR OIL	1000		10/26/2011	4/26/2012	50	100	400	600	800	1000
MC		51204			950	900	800	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

DIESEL 2ND SOURCE						
STD	Init. Conc	Source	Aliquot	Final Vol.	Final Conc.	Solvent
DIESEL 2ND SRC	1000 µg/ml	Q281	400 µL	1 mL	400 µg/mL	MC
	Prep:	9/1/2011				51204
	Exp:	3/1/2012				

LAC
10/28/11
EX: 3/1/12

LAC 10/28/11

KEROSENE/JP6 CURVE										
STANDARD	[ug/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
Kerosene	1000		10/18/2011	4/18/2012	50	100	400	600	800	1000
JP6	MC	51204			950	900	800	400	200	NA
				Final VOL.	1000	1000	1000	1000	1000	1000

LAC
10/28/11
EX: 4/18/12

11/1/11

PREP DATE:	11/1/2011
OP 2ND SOURCE	
EXP:	4/19/2012
SUPPLIER	IQ# [ug/mL] LOT # DATE EXP. DATE µL
	OP 2ND SRC 5 10/19/2011 4/19/2012 500
VWR	HEXANE 0826108 500
	Final VOL. 1000

11/1/11
EX: 4/19/12

11/1/11

PREP DATE:	11/1/2011
OPF CURVE	
EXP:	4/13/2012
SUPPLIER	IQ# [ug/mL] LOT # DATE EXP. DATE µL µL µL µL µL µL µL
	OPF STD 5 10/19/2011 4/13/2012 2 10 50 100 500 700 1000
	Hexane 0826108 950 950 950 800 500 300 NA
	Final VOL. 1000 1000 1000 1000 1000 1000 1000

11/1/11
EX: 4/13/12

11/1/11

PREP DATE:	11/1/2011
OPC CURVE	
EXP:	3/15/2012
SUPPLIER	IQ# [ug/mL] LOT # DATE EXP. DATE µL µL µL µL µL µL
	OPC STD 5 9/15/2011 3/15/2012 10 50 200 500 700 1000
	Hexane 0826108 950 950 800 300 300 NA
	Final VOL. 1000 1000 1000 1000 1000 1000

11/1/11
EX: 3/15/12

STANDARD INITIAL CONC SOURCE DATE ALIQUOT VOLUME FINAL CONC SOLVENT LOT# DATE INITIALS

DIESEL STANDARD

DIESEL FUEL #2 50,000mg/L 02SI 1000ml 50ml 1000mg/L MC # 51204 10/26/11
 ex: 4/26/12

Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml
 01199-03
 Lot# Storage Expiry
 167768 2-30 Degrees C 2/15/15
 Sol: Methylene Chloride
 Diesel Fuel #2 Composite OP: 10/26/11
 Lot #: 167768 - 29408 EX: 10/26/12
 Rec: 0/28/11 MFR exp. 02/15/15

TRIPHENYL NIOSANE 1000mg/L 02SI 4170ml 50mg/L # 51204
 CAT: 1102316-05
 LOT: 176405-29338
 OP: 10/10/11
 EX: 10/10/12

MOTOR OIL STANDARD

MOTOR OIL 50000mg/L 02SI 1000ml 50ml 1000mg/L MC # 51204 10/26/11
 ex: 4/26/12

Motor Oil Composite, 50,000 mg/L, 1 ml
 02si 116390-02
 Storage: 4-10 Degrees C
 Lot No: 161898 Solvent: Methylene Chloride
 Exp: 7/23/2013
 Motor oil composite
 Lot #: 161898 - 28616
 Rec: 4/14/11 MFR exp. 07/23/13

PAC ECO 2ND SOURCE					
DIAZINON	5ug/ml	200ug/ml	250ul	02SI	10ml
DISULFOTON		200	CAT:	130168-01	HEXANE
MALATHION		200	LOT:	178204-28481	LOT#
MOLINATE		200	OP:	10/26/2011	082610B
PHORATE		200	EXP:	3/11/2012	
THIOBENCARB		200			
TRIBUTYL PHOSPHATE		200			
DEMETON		200			
DISCHLORVOS		200			
EPTC		200			
PARATHION		200			
AZINPHOS METHYL		200			
CHLORPYRIFOS		200			
DIMETHOATE		200			
METHIDATHION		200			
METHYL PARATHION		200			
ATRAZINE		200			
CYANIZINE		200			
TRIPHENYL PHOSPHATE		200			
PENDIMETHALIN (PROWL)		200		150	
TRIFLURALIN		200			
SIMAZINE		200			

10/26/11
 ex:
 3/11/12

10/26/11

STANDARD

INITIAL SOURCE FINAL FINAL SOLVENT DATE
CONC DATE ALIQUOT VOLUME CONC LOT#

11/2/11

PREP:	11/7/2011											
PAC ECO CURVE												
EXP:	2/25/2012											
SUPPLIER	ID#	[ug/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	µL
	PAC ECO CAL STD	5		10/26/2011	2/25/2012	2	10	50	200	500	700	1000
VAR	HEXANE		010711A			998	990	950	800	500	300	N/A
					Final VOL.	1000	1000	1000	1000	1000	1000	1000
PAC ECO 2ND SRC												
Prep:	11/7/11	Exp:	12/17/11	5	010711A	10/28/2011	12/17/2011	500/1000				

11/7/11
ex: 2/25/12
11/7/11
ex: 12/17/11

THC SURROGATE CURVE												
STD	[ug/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	µL	µL
THC SURR	50	178405	10/17/2011	4/17/2012	50	100	400	600	800	1000		
MC		51204			950	800	600	400	200	NA		
					Final VOL.	1000	1000	1,000	1000	1000	1000	1000

11/8/11
ex: 4/17/12

DIESEL CURVE												
STD	[ug/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	µL	µL
DIESEL	1000		10/26/2011	4/28/2012	10	100	400	600	800	1000		
MC		51204			990	900	800	400	200	NA		
					Final VOL.	1000	1000	1,000	1000	1000	1000	1000

11/8/11
ex: 4/28/12

MOTOR OIL CURVE												
STD	[ug/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	µL	µL
MOTOR OIL	1000		10/26/2011	4/28/2012	50	100	400	600	800	1000		
MC		51204			950	800	600	400	200	NA		
					Final VOL.	1000	1000	1,000	1000	1000	1000	1000

11/8/11

DIESEL 2ND SOURCE						
STD	Init. Conc	Source	Aliquot	Final Vol.	Final Conc.	Solvent
DIESEL 2ND SRC	1000ug/ml	O2S1	400µL	1 mL	400 µg/mL	MC
	Prep:	9/1/2011				51204
	Exp:	3/1/2012				

11/8/11
ex: 3/1/12

PREP DATE:	11/9/2011											
TERBACIL CURVE												
EXP:	3/13/2012											
SUPPLIER	ID#	[ug/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	µL
	TERBACIL STD	5		9/13/2011	3/13/2012	10	50	200	500	700	1000	
VAR	HEXANE		082610B			950	920	900	800	500	300	
					Final VOL.	1000	1000	1000	1000	1000	1000	1000

11/9/11
ex: 3/13/12

PREP DATE:	11/9/2011											
OP 2ND SOURCE												
EXP:	4/19/2012											
SUPPLIER	ID#	[ug/mL]	LOT #	DATE	EXP. DATE	µL						
	OP 2ND SRC	5		10/19/2011	4/19/2012	500						
VAR	HEXANE		082610B			500						
					Final VOL.	1000						

11/9/11
ex: 4/19/12

PREP DATE:	11/9/2011											
OPF CURVE												
EXP:	2/7/2012											
SUPPLIER	ID#	[ug/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	µL
	OPF STD	5		11/3/2011	2/7/2012	2	10	50	200	500	700	1000
	Hexane		082610B			998	990	950	800	500	300	NA
					Final VOL.	1000	1000	1000	1000	1000	1000	1000

11/9/11
ex: 2/7/12

STANDARD

INITIAL
CONCSOURCE
DATE

ALIQOT

FINAL
VOLUMEFINAL
CONCSOLVENT,
LOT#DATE/
INITIALSPCB SOIL SPIKE

AR 1260

1000µg/ml

0251

1250ml

25ml

50µg/ml

ACETONE

11/10/11

AR 1016

CAT: 130011-03

#

EX: 2/10/12

LOT: 162607-27215

OP: 11/10/11

EX: 11/10/12

AND

LOT: 152374-27210

OP: 3/2/11

EX: 3/2/12

PCB WATER SPIKE

AR 1016

1000µg/ml

0251

125ml

25ml

5µg/ml

ACETONE

11/10/11

AR 1260

CAT: 130011-03

#

EX: 2/10/12

LOT: 162607-27214

OP: 8/2/11

EX: 8/2/12

HERB 100/1000 (LYL 3) CCV

VARIOUS

VARIOUS

HERB STD.

100µl

1ml

100µg/ml

MTBE

11/10/11

SEE PL 075

PREP: 10/11/11

#

EX: 4/11/12

EX: 4/11/12

THC SURROGATE CAL. STD.

D-TETRAHULL

1000µg/ml

0251

834ml

10ml

50µg/ml

MC

11/15/11

DETARUSANE

CAT: 110316-05

#

EX: 5/15/12

LOT: 176405-29342

OP: 10/10/11

EX: 10/10/12

LAC 11/15/11

ZAC

11/15/11

EX: 5/15/12

THC SURROGATE CURVE

STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
THC SURR	50	176405	11/15/2011	5/15/2012	50	100	400	800	800	1000
MC		51204			950	900	800	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

STANDARD

INITIAL
CONC

SOURCE
DATE

ALIQOT

FINAL
VOLUME

FINAL
CONC

SOLVENT /
LOT #

DATE /
SIALS

105

DIESEL CCV 400ug/ml

exp 4/2012

STANDARD	INITIAL CONC.	SOURCE DATE	ALIQOT	FINAL VOL	FINAL CONC.	SOLVENT /LOT#
DIESEL STD.	1000UG/ML	O2SI	400µL	1mL	400 µg/ml	MC
		10/26/11	04/26/12			51204

1Ac
4/24/11

exp

4/24/11

MOTOR OIL CCV 400UG/ML

STANDARD	INITIAL CONC.	SOURCE DATE	ALIQOT	FINAL VOL	FINAL CONC.	SOLVENT /LOT#
MOTOR OIL STD	1000UG/ML	O2SI	400µL	1mL	400 µg/ml	MC
		10/26/11	04/26/12			51204

STANDARD

INITIAL SOURCE FINAL FINAL SOLVENT / DATE /
 CONC DATE ALIQUOT VOLUME CONC LOT# INITIALS

OIL/OP WATER SURROGATE

DECA 5000µg/ml O2S1 30ml 100ML 1.5µg/ml ACETONE
 TCMX CAT: 130010-02 # 01101C 11/2/11
 DPC LOT: 154164-29416 EX: 2/2/12
 OP: 11/2/11
 EX: 11/2/12

TBP 1000µg/ml O2S1 500ml 5µg/ml
 TPP

TriButyl- and
 Triphenylphosphate Solution,
 1,000 mg/L, 1 ml
 130161-02
 Lot# Storage Expiry
 164817 -5 to 10 Degree C 10/19/13
 Behr, Acetone
 Tributyl and triphenyl phosphate
 Lot # 164817 - 27660
 Rec: 10/20/10 MFR exp. 10/19/13

OIL/OP WATER SURROGATE

DECA 5000µg/ml O2S1 30ml 100ML 1.5µg/ml ACETONE
 TCMX CAT: 130110-02 # 01101C 11/3/11
 DPC LOT: 154164-29416 EX: 2/3/12
 OP: 11/2/11
 EX: 11/2/12

TBP 1000µg/ml O2S1 500ml 5µg/ml
 TPP CAT: 130110-02

LOT: 164817-27660
 OP: 11/2/11
 EX: 11/2/12

* WAS NOT RECORDED ON 11/2/11

DIESEL CCV 400µg/ml

STANDARD	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT /LOT#
DIESEL STD.	1000UG/ML	O2S1	400µL	1mL	400 µg/ml	MC
		10/26/2011	4/26/2012			51204

MOTOR OIL CCV 400UG/ML

STANDARD	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT /LOT#
MOTOR OIL STD	1000UG/ML	O2S1	400µL	1mL	400 µg/ml	MC
		10/26/2011	4/26/2012			51204

KEROSENE CCV 400 UG/ML

STANDARD	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT /LOT#
KEROSENE NP5 STD	1000UG/ML	O2S1	400 µL	1ML	400 UG/ML	MC
		10/18/2011	4/18/2012			010611B

11/2/11
 EX: 4/26/12

11/2/11
 EX: 4/18/12

Organic Extraction Worksheet

Method	THC Laboratory Funnel Extraction 3510C	Extraction Set	111031A	Extraction Method	SBP011	Units	mL
Spiked ID 1	Diesel Spike 10/21/11 EX 1/21/12	Surrogate ID 1	THC Surrogate 176405-29339				
Spiked ID 2	Motor Oil Spike 8/5/11 EX 11/5/11	Surrogate ID 2					
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		YES			
Spiked ID 7		Ext. Start Time:					
Spiked ID 8		Ext. End Time:					
		GC Requires Extract By:		11/02/11 0:00			
		pH1		Water Bath Temp Criteria		80 °C	
		pH2					
		pH3					

Spiked By: HW

Date: 10/31/2011

Witnessed By: DL

Date: 10/31/2011

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 111031A BIK		1		0.250	1	1000	5	7	10/31/11 15:00	
					equip	E-WB5				
2 111031A LCS-1		1	1	0.250	1	1000	5	7	10/31/11 15:00	
					equip	E-WB5				
3 111031A LCS-2		1	2	0.250	1	1000	5	7	10/31/11 15:00	
					equip	E-WB5				
4 AY49327	AY49327W05			0.250	1	1040	5	7	10/31/11 15:00	66103-1 WBEK RUSH -- Amber Liter
					equip	E-WB5				
5 AY49328	AY49328W05			0.250	1	1000	5	7	10/31/11 15:00	66103-1 WBEK RUSH -- Amber Liter
					equip	E-WB5				
6 AY49329	AY49329W05			0.250	1	1010	5	7	10/31/11 15:00	66103-1 WBEK RUSH -- Amber Liter
					equip	E-WB5				
7 AY49330	AY49330W04			0.250	1	1040	5	7	10/31/11 15:00	66103-1 WBEK RUSH -- Amber Liter
					equip	E-WB5				
8 AY49331	AY49331W04			0.250	1	1030	5	7	10/31/11 15:00	66103-1 WBEK RUSH -- Amber Liter
					equip	E-WB5				
9 AY49333	AY49333W09			0.250	1	1030	5	7	10/31/11 15:00	66102-2 WBEK RUSH -- Amber Liter
					equip	E-WB5				
10 AY49334 MS-1	AY49334W35	1	1	0.250	1	1030	5	7	10/31/11 15:00	66102-2 WBEK RUSH -- Amber Liter
					equip	E-WB6				
11 AY49334 MSD-1	AY49334W36	1	1	0.250	1	1030	5	7	10/31/11 15:00	66102-2 WBEK RUSH -- Amber Liter
					equip	E-WB6				
12 AY49334	AY49334W32			0.250	1	1030	5	7	10/31/11 15:00	66102-2 WBEK RUSH -- Amber Liter
					equip	E-WB5				
13 AY49336	AY49336W09			0.250	1	1050	5	7	10/31/11 15:00	66102-2 WBEK RUSH -- Amber Liter
					equip	E-WB6				

Solvent and Lot#	
MC	BMD 51204
Na2SO4	3581C501

Extraction COC Transfer	
Extraction lab employee Initials	HW
GC analyst's initials	<i>[Signature]</i>
Date	11/2/11
Time	11:00
Refrigerator	HWB MCA

Technician's Initials	
Scanned By	HW
Sample Preparation	HW
Extraction Concentration	HW/CC/DL
Modified	10/31/2011 2:12:11 PM

Reviewed By: HW 155 **Date:** 11/1/2011

Organic Extraction Worksheet

Method	THC Separatory Funnel Extraction 3510C	Extraction Set	111031A	Extraction Method	SBP011	Units	mL
Spiked ID 1	Diesel Spike 10/21/11 EX 1/21/12	Surrogate ID 1	THC Surrogate 176405-29339				
Spiked ID 2	Motor Oil Spike 8/5/11 EX 11/5/11	Surrogate ID 2					
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		YES			
Spiked ID 7		Ext. Start Time:					
Spiked ID 8		Ext. End Time:					
			GC Requires Extract By:	11/02/11 0:00			
pH1				Water Bath Temp Criteria 80 °C			
pH2							
pH3							

Spiked By: HW

Date 10/31/2011

Witnessed By: DL

Date 10/31/2011

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
14 AY49481	AY49481W10			0.250	1	1040	5	7	10/31/11 15:00	66116-2 WEEK RUSH -- Amber Liter
						equip	E-WB6			
15 AY49482	AY49482W10			0.250	1	1040	5	7	10/31/11 15:00	66116-2 WEEK RUSH -- Amber Liter
						equip	E-WB6			

HW 11/1/11

Solvent and Lot#	
MC	BMD 51204
Na2SO4	3581C501

Extraction COC Transfer	
Extraction lab employee Initials	HW
GC analyst's initials	<i>[Signature]</i>
Date	11/2/11
Time	11:20
Refrigerator	<i>[Signature]</i>

Technician's Initials	
Scanned By	HW
Sample Preparation	HW
Extraction	HW/CC/DL
Concentration	<i>[Signature]</i>
Modified	10/31/2011 2:12:11 PM

Reviewed By: HW 156 Date 11/1/2011

Injection Log

Directory: G:\APOLLO\DATA\111028\111106\111108\111115\111129

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	3	1028003.D	1	DIESEL 10/1000 10/28/11	Mix(A)	10-28-11 9:47:18
2	4	1028004.D	1	DIESEL 100/1000	Mix(A)	10-28-11 10:11:19
3	5	1028005.D	1	DIESEL 400/1000	Mix(A)	10-28-11 10:35:26
4	6	1028006.D	1	DIESEL 600/1000	Mix(A)	10-28-11 10:59:35
5	7	1028007.D	1	DIESEL 800/1000	Mix(A)	10-28-11 11:23:49
6	8	1028008.D	1	DIESEL 1000/1000	Mix(A)	10-28-11 11:48:05
7	9	1028009.D	1	MOTOR OIL 50/1000 10/28/11	Mix(B)	10-28-11 12:12:27
8	10	1028010.D	1	MOTOR OIL 100/1000	Mix(B)	10-28-11 12:36:20
9	11	1028011.D	1	MOTOR OIL 400/1000	Mix(B)	10-28-11 13:00:16
10	12	1028012.D	1	MOTOR OIL 600/1000	Mix(B)	10-28-11 13:24:39
11	13	1028013.D	1	MOTOR OIL 800/1000	Mix(B)	10-28-11 13:48:43
12	14	1028014.D	1	MOTOR OIL 1000/1000	Mix(B)	10-28-11 14:13:14
13	15	1028015.D	1	DIESEL 2ND SRC 10/28/11	Mix(A)	10-28-11 14:37:14
14	16	1028016.D	1	THC SURR 10/1000 10/28/11	Mix(C)	10-28-11 15:01:44
15	17	1028017.D	1	THC SURR 100/1000	Mix(C)	10-28-11 15:25:58
16	18	1028018.D	1	THC SURR 400/1000	Mix(C)	10-28-11 15:50:20
17	19	1028019.D	1	THC SURR 600/1000	Mix(C)	10-28-11 16:14:52
18	20	1028020.D	1	THC SURR 800/1000	Mix(C)	10-28-11 16:38:57
19	21	1028021.D	1	THC SURR 1000/1000	Mix(C)	10-28-11 17:03:06
20	3	1106003.D	1	DIESEL 400/1000 10/28/11	Mix(A)	11-6-11 16:34:49
21	5	1106005.D	5	111031A BLK 5/1000	Water	11-6-11 17:22:09
22	13	1106013.D	4.85437	AY49333W09 5/1030	Water	11-6-11 20:30:17
23	14	1106014.D	4.85437	AY49334W35 MS-1 5/1030	Water	11-6-11 20:53:41
24	15	1106015.D	4.85437	AY49334W36 MSD-1 5/1030	Water	11-6-11 21:17:05
25	16	1106016.D	4.85437	AY49334W32 5/1030	Water	11-6-11 21:40:27
26	17	1106017.D	1	DIESEL 400/1000 11/2/11	Mix(A)	11-6-11 22:03:47
27	19	1106019.D	4.7619	AY49336W09 5/1050	Water	11-6-11 22:50:22
28	27	1106027.D	1	DIESEL 400/1000 11/2/11	Mix(A)	11-7-11 1:56:08
29	5	1108005.D	1	DIESEL 100/1000	Mix(A)	11-8-11 15:50:59
30	6	1108006.D	1	DIESEL 400/1000	Mix(A)	11-8-11 16:14:36
31	7	1108007.D	1	DIESEL 600/1000	Mix(A)	11-8-11 16:38:14
32	8	1108008.D	1	DIESEL 800/1000	Mix(A)	11-8-11 17:01:53
33	9	1108009.D	1	DIESEL 1000/1000	Mix(A)	11-8-11 17:25:32
34	11	1108011.D	1	MOTOR OIL 50/1000 11/8/11	Mix(B)	11-8-11 18:12:45
35	12	1108012.D	1	MOTOR OIL 100/1000	Mix(B)	11-8-11 18:36:14
36	13	1108013.D	1	MOTOR OIL 400/1000	Mix(B)	11-8-11 18:59:47
37	14	1108014.D	1	MOTOR OIL 600/1000	Mix(B)	11-8-11 19:23:20
38	15	1108015.D	1	MOTOR OIL 800/1000	Mix(B)	11-8-11 19:46:53
39	16	1108016.D	1	MOTOR OIL 1000/1000	Mix(B)	11-8-11 20:10:21
40	69	1108069.D	1	DIESEL 10/1000 11/8/11	Mix(A)	11-9-11 17:18:58
41	70	1108070.D	1	DIESEL 400 2ND SRC 11/8/11	Mix(A)	11-9-11 17:42:38
42	21	1115021.D	1	THC SURR 10/1000 11/15/11	Mix(C)	11-15-11 18:21:35
43	22	1115022.D	1	THC SURR 100/1000	Mix(C)	11-15-11 18:45:31
44	23	1115023.D	1	THC SURR 400/1000	Mix(C)	11-15-11 19:09:25
45	24	1115024.D	1	THC SURR 600/1000	Mix(C)	11-15-11 19:33:17
46	25	1115025.D	1	THC SURR 800/1000	Mix(C)	11-15-11 19:57:06
47	26	1115026.D	1	THC SURR 1000/1000	Mix(C)	11-15-11 20:20:52
48	12	1129012.D	1	DIESEL 400/1000 11/29/11	Mix(A)	11-29-11 13:08:20
49	17	1129017.D	5	111031A LCS-1 5/1000	Water	11-29-11 18:45:15
50	24	1129024.D	1	DIESEL 400/1000 11/29/11	Mix(A)	11-29-11 21:29:15

EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons

EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
QC Summary

Method Blank
EPA 8270D SIM

Blank Name/QCG: 111031W-49334 - 161019
Batch ID: #SIMHC-111031A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
BLANK	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
BLANK	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
BLANK	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
BLANK	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/05/11
BLANK	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/05/11
BLANK	BENZO(A)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/05/11
BLANK	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
BLANK	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	10/31/11	11/05/11
BLANK	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/05/11
BLANK	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/05/11
BLANK	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/05/11
BLANK	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	10/31/11	11/05/11
BLANK	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
BLANK	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/05/11
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/05/11
BLANK	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/05/11
BLANK	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	10/31/11	11/05/11
BLANK	SURROGATE: 2-FLUORBIPHENY	51.7	50-110			%	10/31/11	11/05/11
BLANK	SURROGATE: NITROBENZENE-	66.3	40-110			%	10/31/11	11/05/11
BLANK	SURROGATE: TERPHENYL-D14 (	54.5	50-135			%	10/31/11	11/05/11

Quant Method: SIM2.M
Run #: 1105L028
Instrument: Linus
Sequence: L111027
Initials: LF

GC SC-Blank-REG MDLs
Printed: 11/09/11 3:58:52 PM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.
Case No: 66102
Matrix: WATER

SDG No: 66102
Date Analyzed: 11/05/11
Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: 2-FLUORBIPHENYL (S)			SURROGATE: NITROBENZENE-D5 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
111031A-BLK	Blank	50-110	51.7		40-110	66.3	
111031A-LCS	Lab Control Spike	50-110	55.5		40-110	57.0	
AY49333	ES046	50-110	54.0		40-110	61.9	
AY49334-MS	Matrix Spike	50-110	53.6		40-110	59.3	
AY49334-MSD	Matrix Spiked	50-110	55.7		40-110	53.1	
AY49334	ES047	50-110	53.4		40-110	65.4	
AY49336	ES049	50-110	65.0		40-110	64.4	

Comments: Batch: #SIMHC-111031A

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 66102

Case No: 66102

Date Analyzed: 11/05/11

Matrix: WATER

Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: TERPHENYL-D14 (S)					
		Limits	Result	Qualifier	Limits	Result	Qualifier
111031A-BLK	Blank	50-135	54.5				
111031A-LCS	Lab Control Spike	50-135	53.0				
AY49333	ES046	50-135	50.3				
AY49334-MS	Matrix Spike	50-135	50.7				
AY49334-MSD	Matrix SpikeD	50-135	61.9				
AY49334	ES047	50-135	61.4				
AY49336	ES049	50-135	51.9				

Comments: Batch: #SIMHC-111031A

Laboratory Control Spike Recovery

EPA 8270D SIM

APPL ID: 111031W-49334 LCS - 161019

Batch ID: #SIMHC-111031A

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1-METHYLNAPHTHALENE	4.00	2.25	56.3	45-105
2-METHYLNAPHTHALENE	4.00	2.26	56.5	45-105
ACENAPHTHENE	4.00	2.55	63.7	45-110
ACENAPHTHYLENE	4.00	2.39	59.8	50-105
ANTHRACENE	4.00	2.47	61.8	55-110
BENZO(A)ANTHRACENE	4.00	2.74	68.5	55-110
BENZO(A)PYRENE	4.00	2.48	62.0	55-110
BENZO(B)FLUORANTHENE	4.00	2.43	60.8	45-120
BENZO(GHI)PERYLENE	4.00	2.80	70.0	40-125
BENZO(K)FLUORANTHENE	4.00	3.23	80.8	45-125
CHRYSENE	4.00	2.86	71.5	55-110
DIBENZ(A,H)ANTHRACENE	4.00	2.89	72.3	40-125
FLUORANTHENE	4.00	2.86	71.5	55-115
FLUORENE	4.00	2.59	64.8	50-110
INDENO(1,2,3-CD)PYRENE	4.00	2.95	73.8	45-125
NAPHTHALENE	4.00	2.30	57.5	40-100
PHENANTHRENE	4.00	2.43	60.8	50-115
PYRENE	4.00	2.57	64.3	50-130

SURROGATE: 2-FLUORBIPHENYL (S)	2.00	1.11	55.5	50-110
SURROGATE: NITROBENZENE-D5 (S)	2.00	1.14	57.0	40-110
SURROGATE: TERPHENYL-D14 (S)	2.00	1.06	53.0	50-135

Comments:

<u>Primary</u>	<u>SPK</u>
Quant Method :	SIM2.M
Extraction Date :	10/31/11
Analysis Date :	11/05/11
Instrument :	Linus
Run :	1105L029
Initials :	LF

Printed: 11/09/11 3:59:06 PM

APPL Standard LCS

Matrix Spike Recoveries

EPA 8270D SIM

APPL ID: 111031W-49334 MS - 161019
 Batch ID: #SIMHC-111031A
 Sample ID: AY49334
 Client ID: ES047

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1-METHYLNAPHTHALENE	3.88	0.62	2.88	2.71	58.2	53.9	45-105	6.1	25
2-METHYLNAPHTHALENE	3.88	0.20	2.26	1.98	53.1	45.9	45-105	13.2	25
ACENAPHTHENE	3.88	0.16	2.17	1.79	51.8	42.0 #	45-110	19.2	25
ACENAPHTHYLENE	3.88	ND	2.14	1.77	55.2	45.6 #	50-105	18.9	25
ANTHRACENE	3.88	ND	2.14	1.96	55.2	50.5 #	55-110	8.8	25
BENZO(A)ANTHRACENE	3.88	ND	3.04	2.84	78.4	73.2	55-110	6.8	25
BENZO(A)PYRENE	3.88	ND	2.62	2.30	67.5	59.3	55-110	13.0	25
BENZO(B)FLUORANTHENE	3.88	ND	2.72	2.34	70.1	60.3	45-120	15.0	25
BENZO(GHI)PERYLENE	3.88	ND	2.84	2.54	73.2	65.5	40-125	11.2	25
BENZO(K)FLUORANTHENE	3.88	ND	3.07	2.84	79.1	73.2	45-125	7.8	25
CHRYSENE	3.88	ND	2.75	2.56	70.9	66.0	55-110	7.2	25
DIBENZ(A,H)ANTHRACENE	3.88	ND	2.90	2.51	74.7	64.7	40-125	14.4	25
FLUORANTHENE	3.88	ND	2.84	2.59	73.2	66.8	55-115	9.2	25
FLUORENE	3.88	0.083	2.42	2.08	60.2	51.5	50-110	15.1	25
INDENO(1,2,3-CD)PYRENE	3.88	ND	2.93	2.71	75.5	69.8	45-125	7.8	25
NAPHTHALENE	3.88	1.0	3.70	2.56	69.6	40.2	40-100	36.4 #	25
PHENANTHRENE	3.88	ND	2.38	2.20	61.3	56.7	50-115	7.9	25
PYRENE	3.88	ND	2.63	2.45	67.8	63.1	50-130	7.1	25

SURROGATE: 2-FLUORBIPHENYL (S)	1.94	NA	1.04	1.08	53.6	55.7	50-110		
SURROGATE: NITROBENZENE-D5 (S)	1.94	NA	1.15	1.03	59.3	53.1	40-110		
SURROGATE: TERPHENYL-D14 (S)	1.94	NA	0.984	1.20	50.7	61.9	50-135		

= Recovery is outside QC limits.

Comments:

Primary	SPK	DUP
Quant Method :	SIM2.M	SIM2.M
Extraction Date :	10/31/11	10/31/11
Analysis Date :	11/05/11	11/06/11
Instrument :	Linus	Linus
Run :	1105L036	1105L037
Initials :	LF	

Printed: 11/09/11 4:01:33 PM
 APPL MSD SCII

8270D-SIM

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 66102

Case No: 66102

Date Analyzed: 11/05/11

Matrix: WATER

Instrument: Linus

Blank ID: 111031A-BLK

Time Analyzed: 2015

APPL ID.	Client Sample No.	File ID.	Date Analyzed
111031A-BLK	Blank	1105L028	11/05/11 2015
111031A-LCS	Lab Control Spike	1105L029	11/05/11 2041
AY49333	ES046	1105L035	11/05/11 2311
111031A-MS	Matrix Spike	1105L036	11/05/11 2336
111031A-MSD	Matrix SpikeD	1105L037	11/06/11 0001
AY49334	ES047	1105L038	11/06/11 0026
AY49336	ES049	1105L039	11/06/11 0051

Comments: Batch: #SIMHC-111031A

Printed: 11/09/11 3:59:11 PM
Form 4, Blank Summary

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 66102
 Matrix: Water
 ID: SVTUNE 10-27-11

SDG No: 66102
 Date Analyzed: 11/05/11
 Instrument: Linus
 Time Analyzed: 16:36

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	Blank	111031A BLK 1/1000	1105L028.D
2	Lab Control Spike	111031A LCS-1 1/1000	1105L029.D
3	ES046	AY49333W10 1/1050	1105L035.D
4	Matrix Spike	AY49334W30 MS-1 1/10	1105L036.D
5	Matrix Spike Dup	AY49334W34 MSD-1 1/1	1105L037.D
6	ES047	AY49334W29 1/1050	1105L038.D
7	ES049	AY49336W10 1/1030	1105L039.D
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

51 29.95 - 60% of mass 198	59.0
68 0 - 2.05% of mass 69	0.0
70 0 - 2% of mass 69	0.6
127 40 - 60% of mass 198	55.1
197 0 - 1% of mass 198	0.5
198 100 - 100% of mass 198	100.0
199 5 - 9% of mass 198	7.1
275 10 - 30% of mass 198	23.2
365 1 - 100% of mass 198	1.9
441 0.01 - 100% of mass 443	73.0
442 40 - 150% of mass 198	58.8
443 17 - 23% of mass 442	19.7

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 66102
 Lab File ID (Standard): 1028L007.D Date Analyzed: 10/28/11
 Instrument ID: Linus Time Analyzed: 11:58
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		Napthalene-D8(IS)		Acenaphthene-D10(IS)		Phenanthrene-D10(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		2479	6.12	1083	8.11	1851	9.85
UPPER LIMIT		4958	6.62	2166	8.61	3702	10.35
LOWER LIMIT		1240	5.62	542	7.61	926	9.35
SAMPLE NO.							
01	111031A BLK 1/1000	2305	6.12	1068	8.11	2122	9.86
02	111031A LCS-1 1/1000	2079	6.12	961	8.11	1713	9.85
03	AY49333W10 1/1050	2476	6.11	1226	8.11	1995	9.83
04	AY49334W30 MS-1 1/10	2236	6.11	1033	8.11	1791	9.84
05	AY49334W34 MSD-1 1/	2287	6.11	1131	8.11	1879	9.83
06	AY49334W29 1/1050	2328	6.11	1134	8.11	1938	9.84
07	AY49336W10 1/1030	2268	6.12	1052	8.11	1894	9.86
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 66102
 Lab File ID (Standard): 1028L007.D Date Analyzed: 10/28/11
 Instrument ID: Linus Time Analyzed: 11:58
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Chrysene-D12(IS)		Perylene-D12(IS)		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12 HOUR STD	2378	12.93	1871	14.56		
UPPER LIMIT	4756	13.43	3742	15.06		
LOWER LIMIT	1189	12.43	936	14.06		
SAMPLE NO.						
01 111031A BLK 1/1000	2454	12.94	2143	14.57		
02 111031A LCS-1 1/1000	2367	12.93	2017	14.56		
03 AY49333W10 1/1050	2680	12.94	2235	14.57		
04 AY49334W30 MS-1 1/10	2429	12.93	2046	14.56		
05 AY49334W34 MSD-1 1/	2428	12.93	2160	14.56		
06 AY49334W29 1/1050	2444	12.94	2139	14.57		
07 AY49336W10 1/1030	2526	12.94	2131	14.57		
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Sample Data

EPA 8270D SIM

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

Attn: Stacy Fineran
Project: RED HILL/1022-024

Sample ID: ES046
Sample Collection Date: 10/24/11

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 66102
APPL ID: AY49333
QCG: #SIMHC-111031A-161019

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.53	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
8270D-SIM	2-METHYLNAPHTHALENE	0.15 J	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
8270D-SIM	ACENAPHTHENE	0.17 J	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
8270D-SIM	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
8270D-SIM	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/05/11
8270D-SIM	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/05/11
8270D-SIM	BENZO(A)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/05/11
8270D-SIM	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
8270D-SIM	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	10/31/11	11/05/11
8270D-SIM	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/05/11
8270D-SIM	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/05/11
8270D-SIM	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/05/11
8270D-SIM	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	10/31/11	11/05/11
8270D-SIM	FLUORENE	0.082 J	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
8270D-SIM	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/05/11
8270D-SIM	NAPHTHALENE	0.80	0.2	0.10	0.05	ug/L	10/31/11	11/05/11
8270D-SIM	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/05/11
8270D-SIM	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	10/31/11	11/05/11
8270D-SIM	SURROGATE: 2-FLUORBIPHENYL (S)	54.0	50-110			%	10/31/11	11/05/11
8270D-SIM	SURROGATE: NITROBENZENE-D5 (S)	61.9	40-110			%	10/31/11	11/05/11
8270D-SIM	SURROGATE: TERPHENYL-D14 (S)	50.3	50-135			%	10/31/11	11/05/11

J = Estimated value.

Quant Method: SIM2.M
Run #: 1105L035
Instrument: Linus
Sequence: L111027
Dilution Factor: 1
Initials: LF

Printed: 11/09/11 3:59:14 PM

APPL-F1-SC-NoMC-REG MDLs

Data File : M:\LINUS\DATA\L111027\1105L035.D
 Acq On : 5 Nov 11 23:11
 Sample : AY49333W10 1/1050
 Misc :

Vial: 35
 Operator: LF
 Inst : Linus
 Multiplr: 0.95

Quant Time: Nov 9 9:17 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Nov 02 15:56:51 2011
 Response via : Initial Calibration
 DataAcq Meth : 87S1MAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	6.11	136	2476	2.50000	ppb	-0.01
6) Acenaphthene-D10 (IS)	8.11	164	1226	2.50000	ppb	0.00
11) Phenanthrene-D10 (IS)	9.83	188	1995	2.50000	ppb	-0.01
15) Chrysene-D12 (IS)	12.94	240	2680	2.50000	ppb	0.01
21) Perylene-D12 (IS)	14.57	264	2235	2.50000	ppb	0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.41	82	549	1.17909	ppb	-0.04
Spiked Amount	1.905		Recovery	=	61.898%	
7) Surrogate Recovery (FBP)	7.35	172	1180	1.02825	ppb	0.00
Spiked Amount	1.905		Recovery	=	53.970%	
17) Surrogate Recovery (TPH)	11.70	244	1161	0.95815	ppb	-0.01
Spiked Amount	1.905		Recovery	=	50.295%	
Target Compounds						
3) Naphthalene	6.13	128	1456	0.80384	ppb	Qvalue # 38
4) 2-Methylnaphthalene	6.93	142	142	0.15289	ppb	99
5) 1-Methylnaphthalene	7.02	142	568	0.52981	ppb	94
9) Acenaphthene	8.15	154	168	0.17136	ppb	92
10) Fluorene	8.75	166	88	0.08203	ppb	92

Quantitation Report

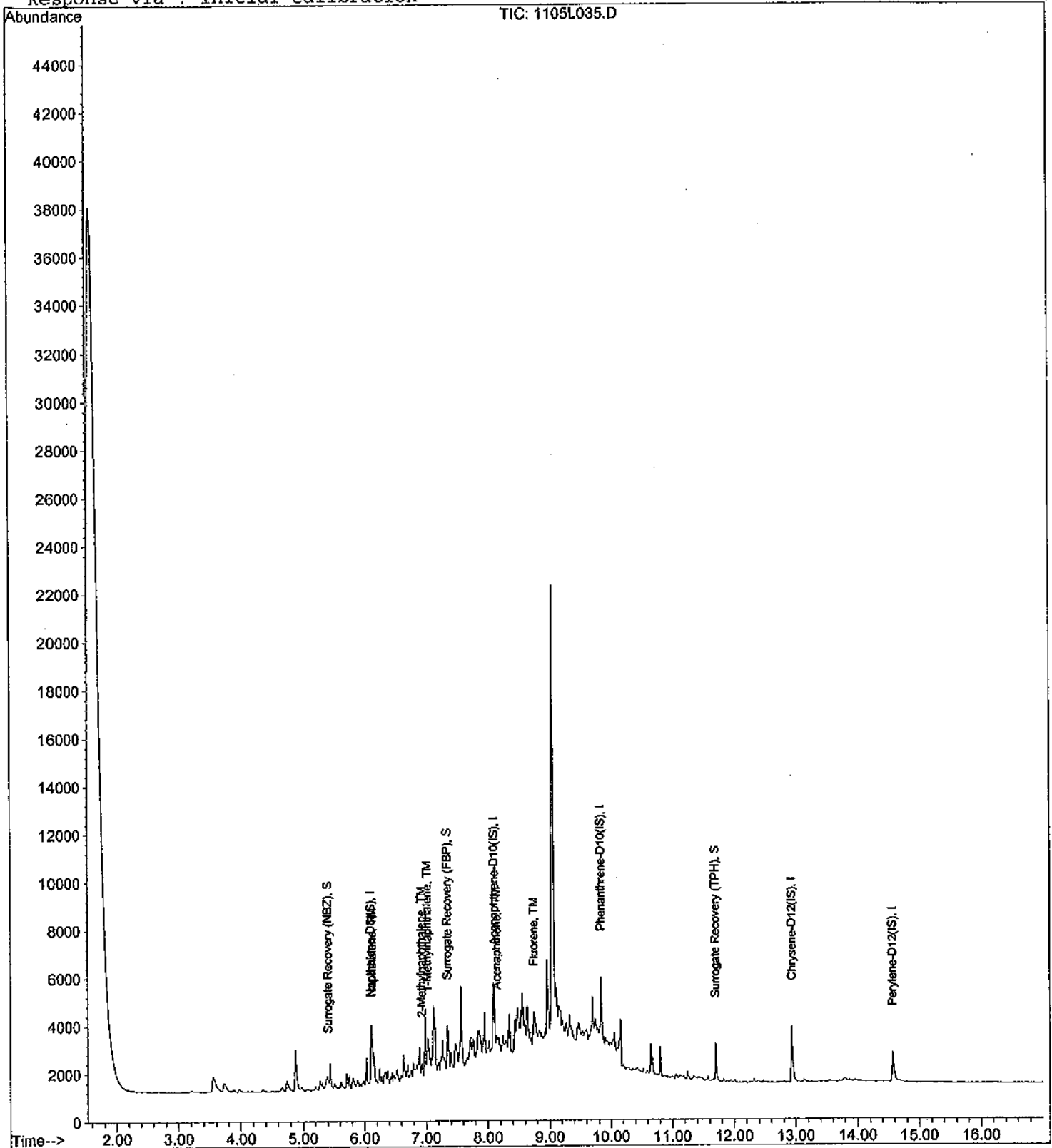
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 Acq On : 5 Nov 11 23:11
 Sample : AY49333W10 1/1050
 Misc :

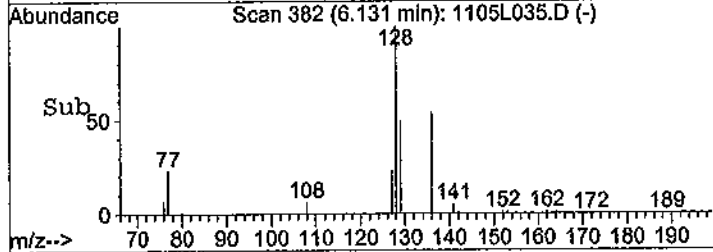
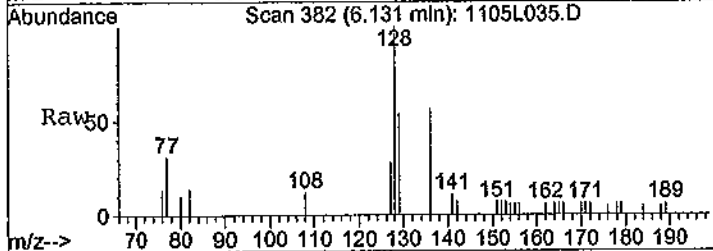
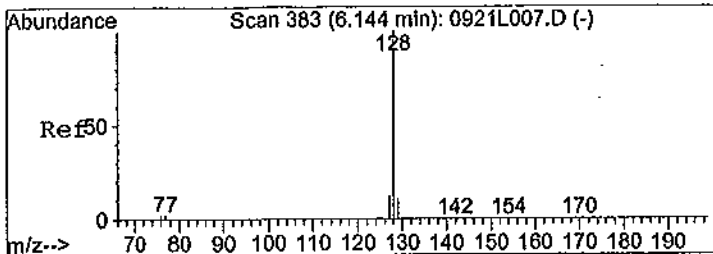
Vial: 35
 Operator: LF
 Inst : Linus
 Multiplr: 0.95

Quant Time: Nov 9 9:17 2011

Quant Results File: SIM2.RES

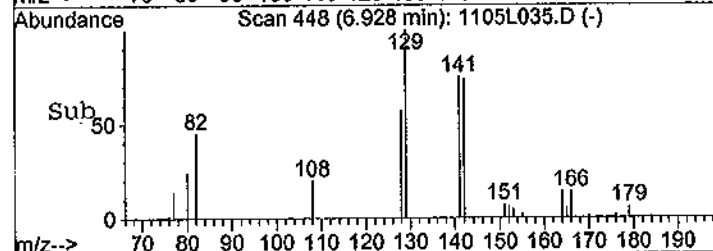
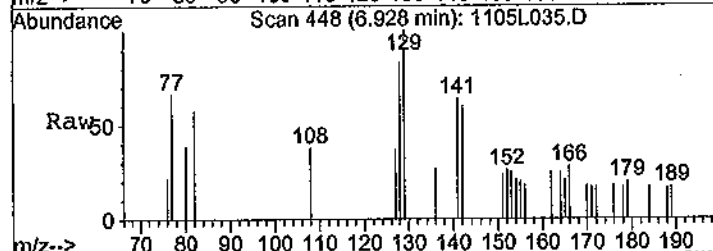
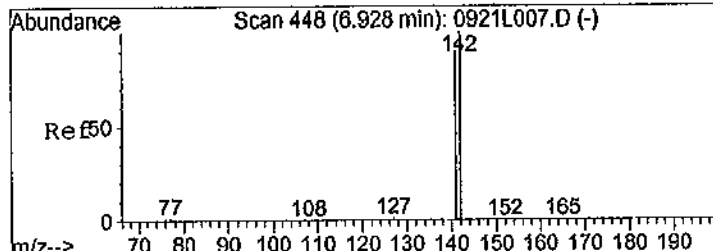
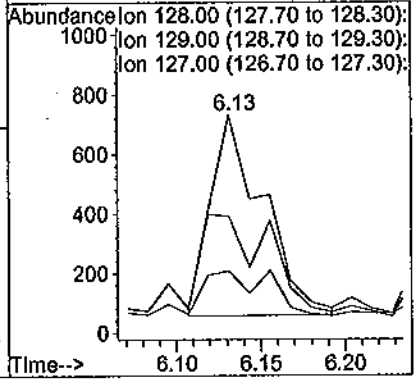
Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Nov 08 16:22:04 2011
 Response via : Initial Calibration





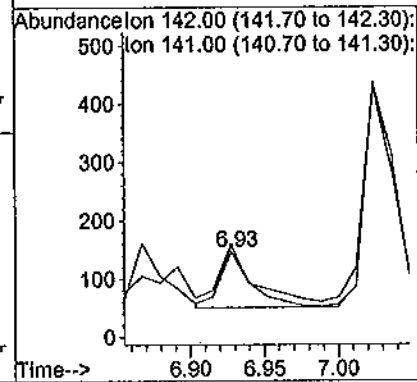
#3
 Naphthalene
 Concen: 0.80384 ppb
 RT: 6.13 min Scan# 382
 Delta R.T. -0.01 min
 Lab File: 1105L035.D
 Acq: 5 Nov 11 23:11

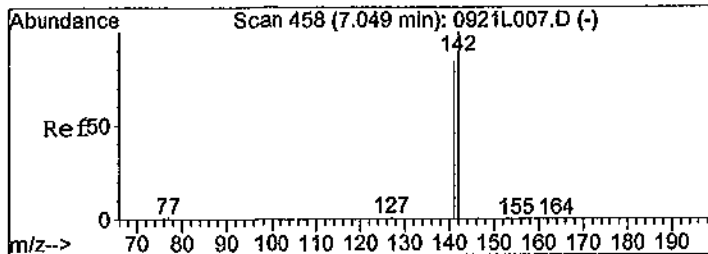
Tgt Ion	Resp	Lower	Upper
128	1456	100	
129	49.4	7.7	14.3#
127	23.0	8.6	16.0#



#4
 2-Methylnaphthalene
 Concen: 0.15289 ppb
 RT: 6.93 min Scan# 448
 Delta R.T. -0.04 min
 Lab File: 1105L035.D
 Acq: 5 Nov 11 23:11

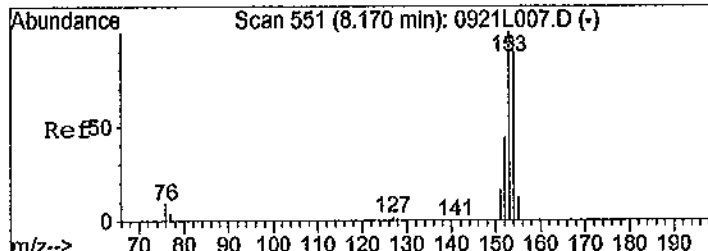
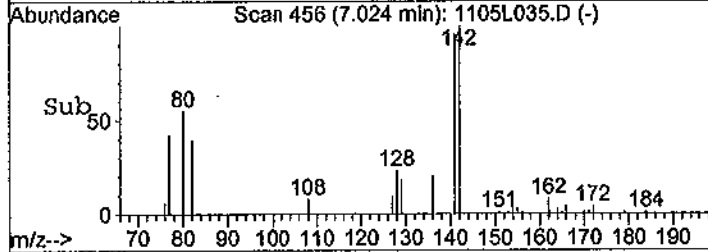
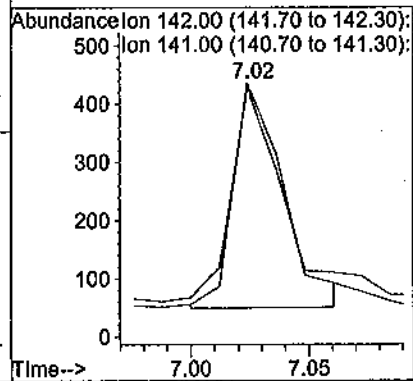
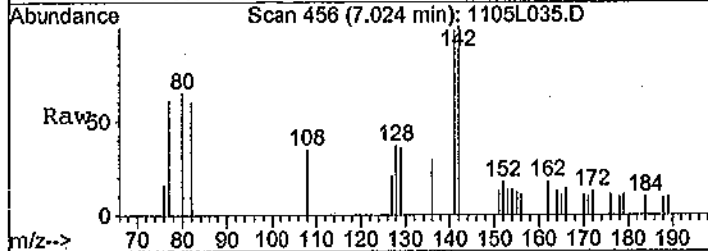
Tgt Ion	Resp	Lower	Upper
142	142	100	
141	98.9	68.9	127.9





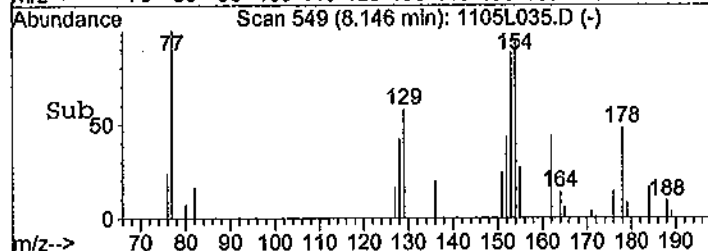
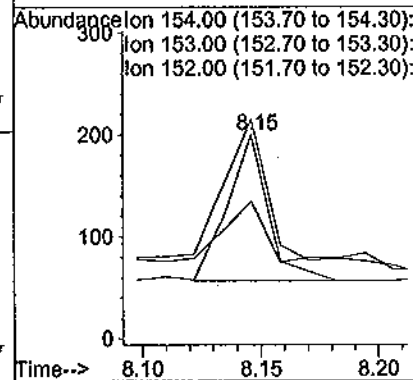
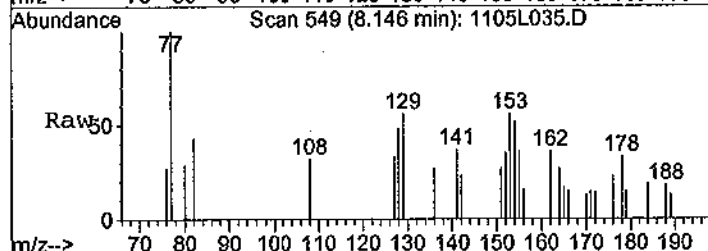
#5
 1-Methylnaphthalene
 Concen: 0.52981 ppb
 RT: 7.02 min Scan# 456
 Delta R.T. -0.02 min
 Lab File: 1105L035.D
 Acq: 5 Nov 11 23:11

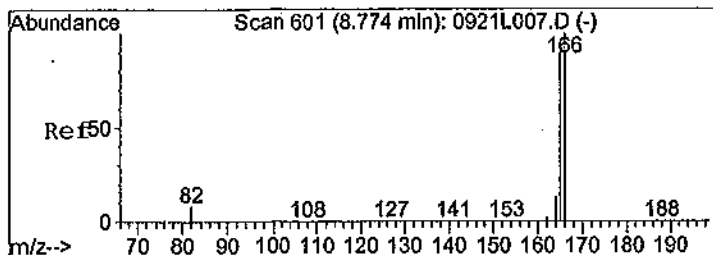
Tgt Ion:	142	Resp:	568
Ion Ratio	100	Lower	Upper
141	94.5	70.0	130.0



#9
 Acenaphthene
 Concen: 0.17136 ppb
 RT: 8.15 min Scan# 549
 Delta R.T. -0.00 min
 Lab File: 1105L035.D
 Acq: 5 Nov 11 23:11

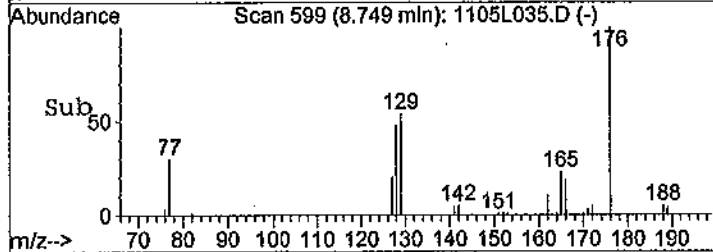
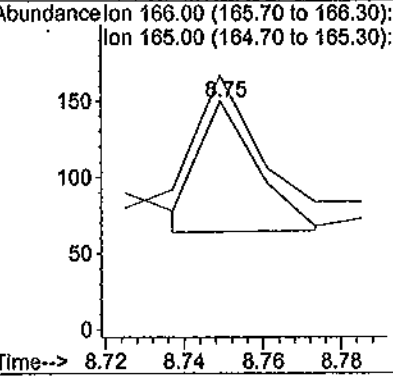
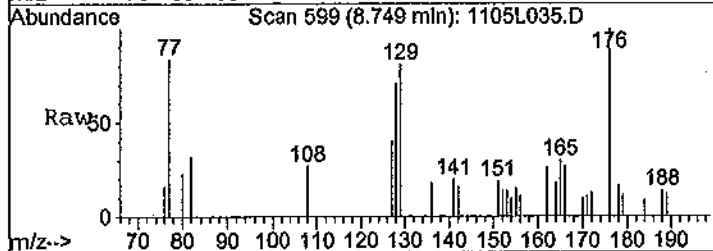
Tgt Ion:	154	Resp:	168
Ion Ratio	100	Lower	Upper
153	95.1	72.0	133.8
152	39.2	32.1	59.5





#10
 Fluorene
 Concen: 0.08203 ppb
 RT: 8.75 min Scan# 599
 Delta R.T. -0.01 min
 Lab File: 1105L035.D
 Acq: 5 Nov 11 23:11

Tgt Ion	Resp	Lower	Upper
166	100		
165	101.2	65.6	121.8



EPA 8270D SIM

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacy Fineran

Project: RED HILL/1022-024

Sample ID: ES047

Sample Collection Date: 10/24/11

ARF: 66102

APPL ID: AY49334

QCG: #SIMHC-111031A-161019

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.62	0.2	0.12	0.06	ug/L	10/31/11	11/06/11
8270D-SIM	2-METHYLNAPHTHALENE	0.20	0.2	0.12	0.06	ug/L	10/31/11	11/06/11
8270D-SIM	ACENAPHTHENE	0.16 J	0.2	0.12	0.06	ug/L	10/31/11	11/06/11
8270D-SIM	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/06/11
8270D-SIM	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/06/11
8270D-SIM	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/06/11
8270D-SIM	BENZO(A)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/06/11
8270D-SIM	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/06/11
8270D-SIM	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	10/31/11	11/06/11
8270D-SIM	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/06/11
8270D-SIM	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/06/11
8270D-SIM	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/06/11
8270D-SIM	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	10/31/11	11/06/11
8270D-SIM	FLUORENE	0.083 J	0.2	0.12	0.06	ug/L	10/31/11	11/06/11
8270D-SIM	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/06/11
8270D-SIM	NAPHTHALENE	1.0	0.2	0.10	0.05	ug/L	10/31/11	11/06/11
8270D-SIM	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/06/11
8270D-SIM	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	10/31/11	11/06/11
8270D-SIM	SURROGATE: 2-FLUORBIPHENYL (S)	53.4	50-110			%	10/31/11	11/06/11
8270D-SIM	SURROGATE: NITROBENZENE-D5 (S)	65.4	40-110			%	10/31/11	11/06/11
8270D-SIM	SURROGATE: TERPHENYL-D14 (S)	61.4	50-135			%	10/31/11	11/06/11

J = Estimated value.

Quant Method: SIM2.M
Run #: 1105L038
Instrument: Linus
Sequence: L111027
Dilution Factor: 1
Initials: LF

Printed: 11/09/11 3:59:14 PM
APPL-F1-SC-NoMC-REG MDLs

Data File : M:\LINUS\DATA\L111027\1105L038.D
 Acq On : 6 Nov 11 00:26
 Sample : AY49334W29 1/1050
 Misc :

Vial: 38
 Operator: LF
 Inst : Linus
 Multiplr: 0.95

Quant Time: Nov 9 9:19 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Nov 02 15:56:51 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	6.11	136	2328	2.50000	ppb	-0.01
6) Acenaphthene-D10 (IS)	8.11	164	1134	2.50000	ppb	0.00
11) Phenanthrene-D10 (IS)	9.84	188	1938	2.50000	ppb	-0.01
15) Chrysene-D12 (IS)	12.94	240	2444	2.50000	ppb	0.01
21) Perylene-D12 (IS)	14.57	264	2139	2.50000	ppb	0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.41	82	545	1.24491	ppb	-0.04
Spiked Amount	1.905		Recovery	=	65.363%	
7) Surrogate Recovery (FBP)	7.35	172	1080	1.01746	ppb	0.00
Spiked Amount	1.905		Recovery	=	53.393%	
17) Surrogate Recovery (TPH)	11.70	244	1293	1.17013	ppb	-0.01
Spiked Amount	1.905		Recovery	=	61.425%	
Target Compounds						
3) Naphthalene	6.13	128	1754	1.02993	ppb	Qvalue # 54
4) 2-Methylnaphthalene	6.93	142	176	0.20154	ppb	94
5) 1-Methylnaphthalene	7.02	142	620	0.61508	ppb	93
9) Acenaphthene	8.15	154	143	0.15769	ppb	95
10) Fluorene	8.75	166	82	0.08264	ppb	92

Quantitation Report

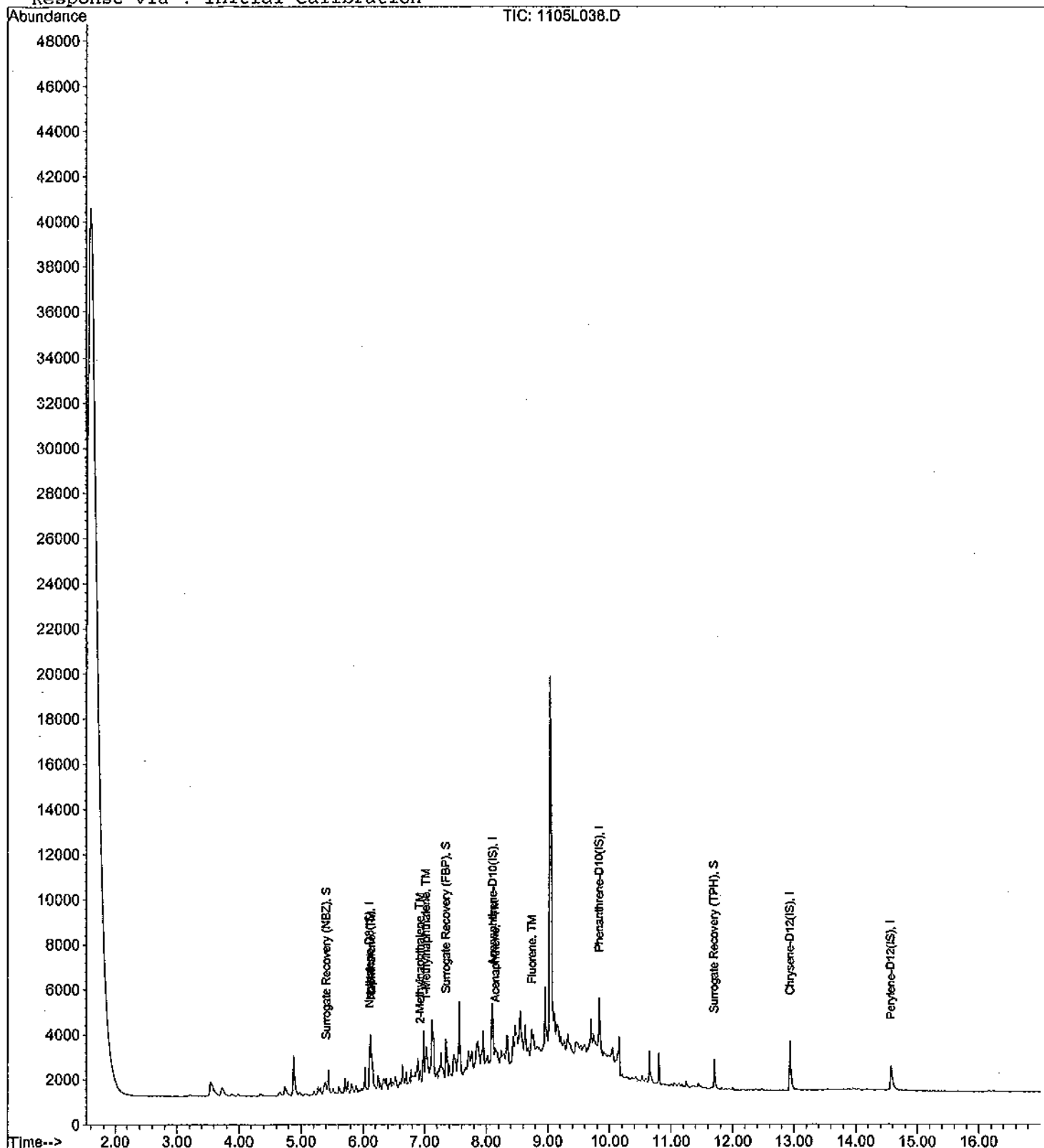
Data File : M:\LINUS\DATA\L111027\1105L038.D
Acq On : 6 Nov 11 00:26
Sample : AY49334W29 1/1050
Misc :

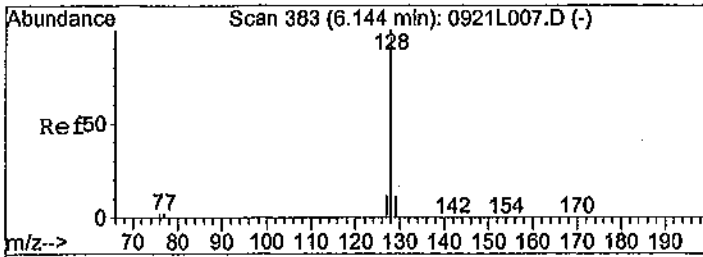
Vial: 38
Operator: LF
Inst : Linus
Multiplr: 0.95

Quant Time: Nov 9 9:19 2011

Quant Results File: SIM2.RES

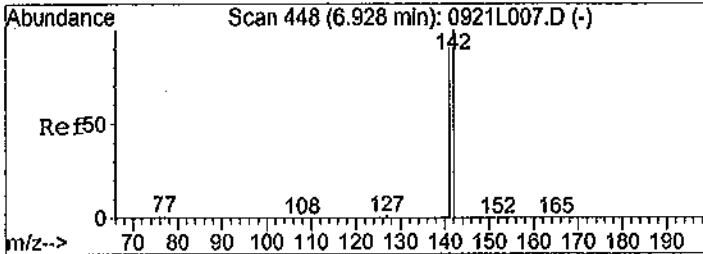
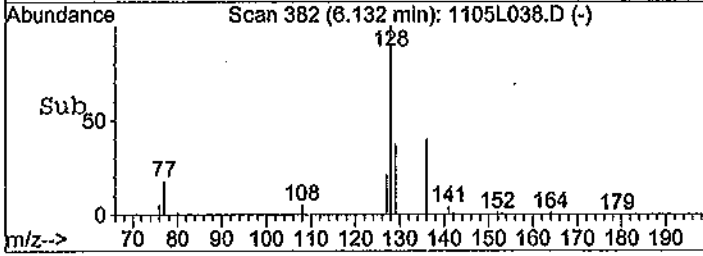
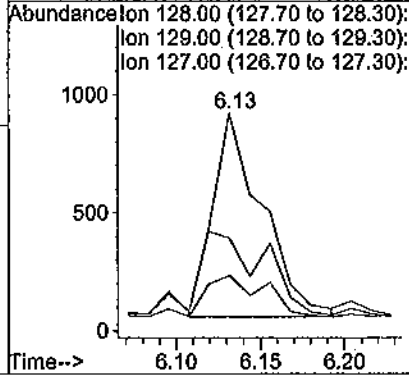
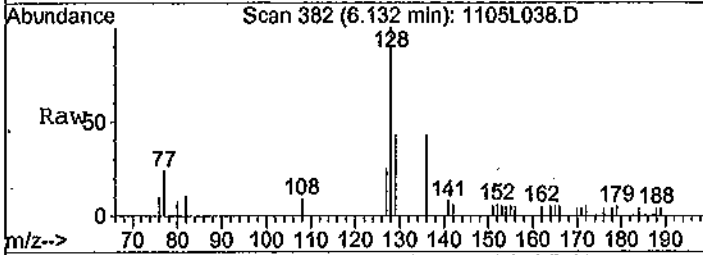
Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 08 16:22:04 2011
Response via : Initial Calibration





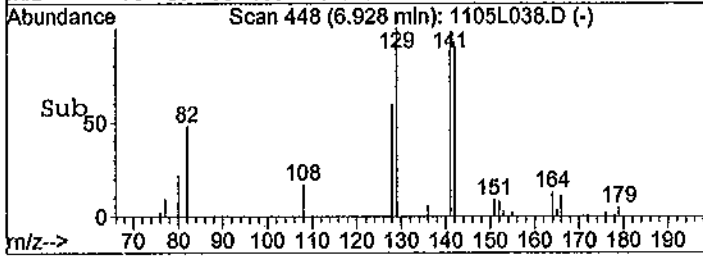
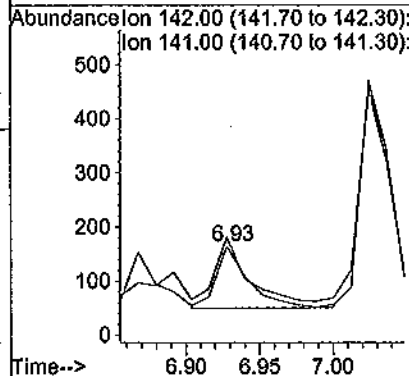
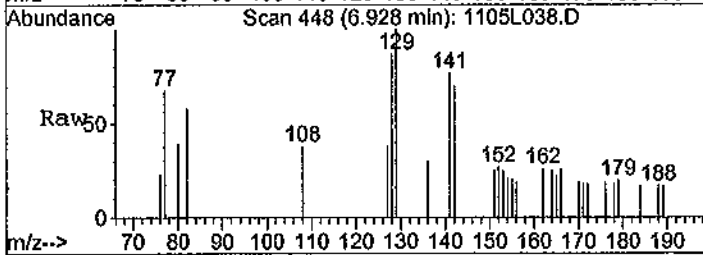
#3
 Naphthalene
 Concen: 1.02993 ppb
 RT: 6.13 min Scan# 382
 Delta R.T. -0.01 min
 Lab File: 1105L038.D
 Acq: 6 Nov 11 00:26

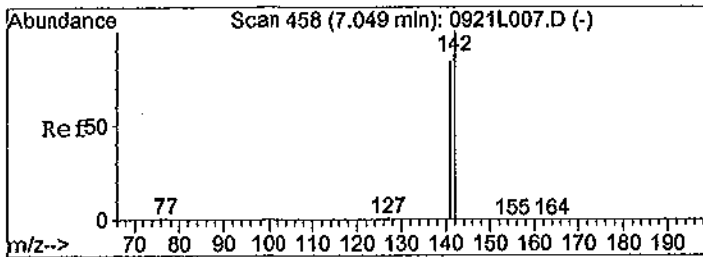
Tgt Ion	Resp	Lower	Upper
128	1754	100	
129	39.0	7.7	14.3#
127	20.8	8.6	16.0#



#4
 2-Methylnaphthalene
 Concen: 0.20154 ppb
 RT: 6.93 min Scan# 448
 Delta R.T. -0.04 min
 Lab File: 1105L038.D
 Acq: 6 Nov 11 00:26

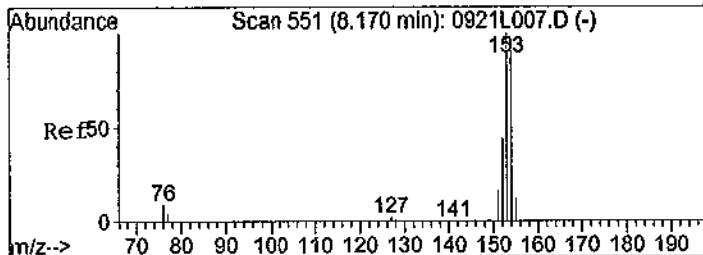
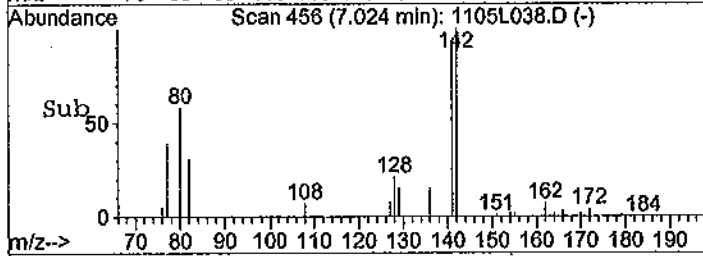
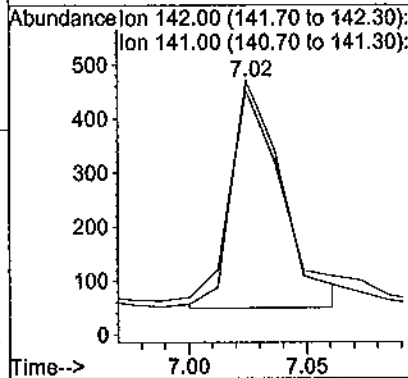
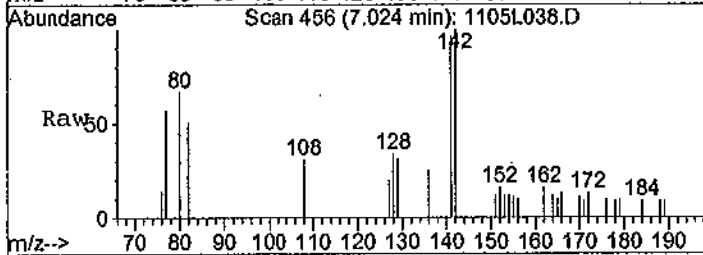
Tgt Ion	Resp	Lower	Upper
142	176	100	
141	104.5	68.9	127.9





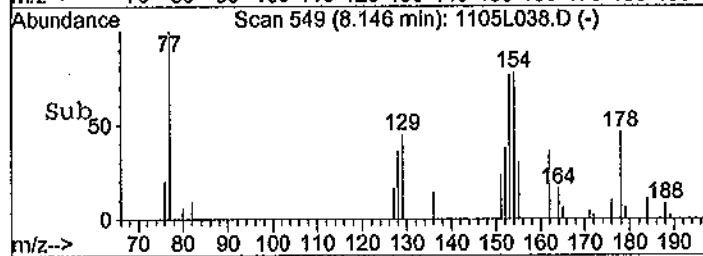
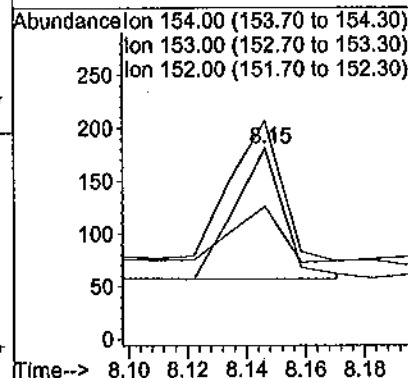
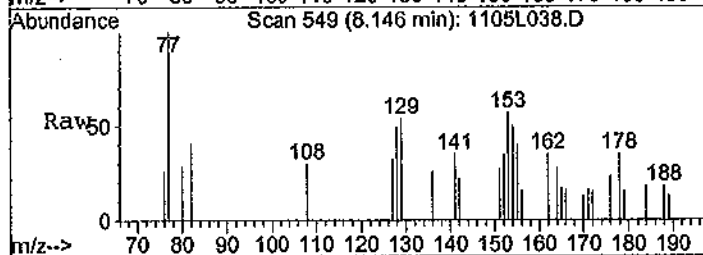
#5
 1-Methylnaphthalene
 Concen: 0.61508 ppb
 RT: 7.02 min Scan# 456
 Delta R.T. -0.02 min
 Lab File: 1105L038.D
 Acq: 6 Nov 11 00:26

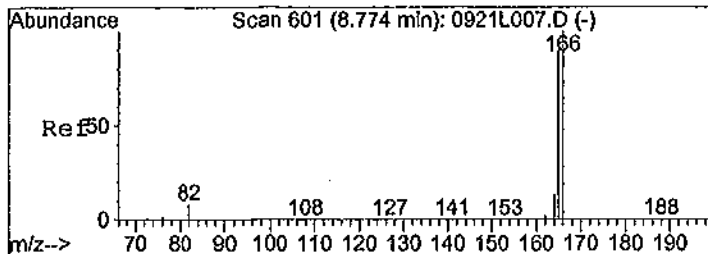
Tgt Ion: 142 Resp: 620
 Ion Ratio Lower Upper
 142 100
 141 93.0 70.0 130.0



#9
 Acenaphthene
 Concen: 0.15769 ppb
 RT: 8.15 min Scan# 549
 Delta R.T. 0.00 min
 Lab File: 1105L038.D
 Acq: 6 Nov 11 00:26

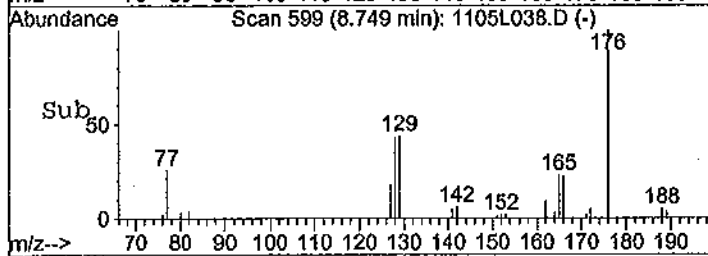
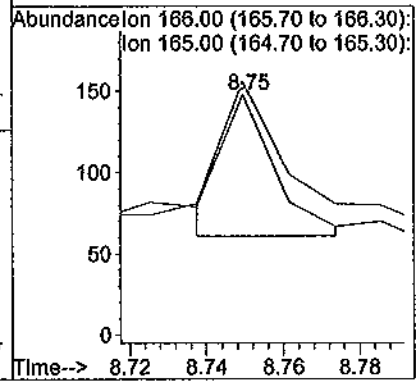
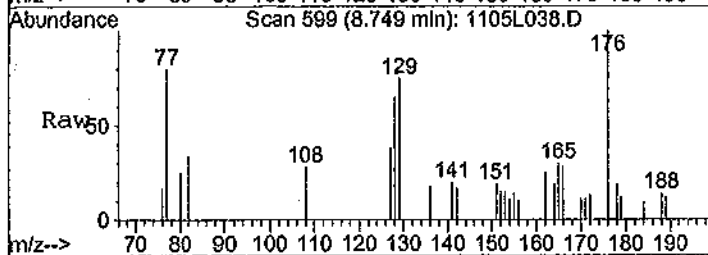
Tgt Ion: 154 Resp: 143
 Ion Ratio Lower Upper
 154 100
 153 107.3 72.0 133.8
 152 41.9 32.1 59.5





#10
 Fluorene
 Concen: 0.08264 ppb
 RT: 8.75 min Scan# 599
 Delta R.T. -0.01 min
 Lab File: 1105L038.D
 Acq: 6 Nov 11 00:26

Tgt Ion:166 Resp: 82
 Ion Ratio Lower Upper
 166 100
 165 105.4 65.6 121.8



EPA 8270D SIM

EnviroNet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

Attn: Stacy Fineran
Project: RED HILL/1022-024

Sample ID: ES049
Sample Collection Date: 10/24/11

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 66102
APPL ID: AY49336
QCG: #SIMHC-111031A-161019

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/06/11
8270D-SIM	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/06/11
8270D-SIM	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/06/11
8270D-SIM	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/06/11
8270D-SIM	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/06/11
8270D-SIM	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/06/11
8270D-SIM	BENZO(A)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/06/11
8270D-SIM	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/06/11
8270D-SIM	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	10/31/11	11/06/11
8270D-SIM	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/06/11
8270D-SIM	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/06/11
8270D-SIM	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/06/11
8270D-SIM	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	10/31/11	11/06/11
8270D-SIM	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/06/11
8270D-SIM	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/06/11
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/06/11
8270D-SIM	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/06/11
8270D-SIM	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	10/31/11	11/06/11
8270D-SIM	SURROGATE: 2-FLUORBIPHENYL (S)	65.0	50-110			%	10/31/11	11/06/11
8270D-SIM	SURROGATE: NITROBENZENE-D5 (S)	64.4	40-110			%	10/31/11	11/06/11
8270D-SIM	SURROGATE: TERPHENYL-D14 (S)	51.9	50-135			%	10/31/11	11/06/11

Quant Method: SIM2.M
Run #: 1105L039
Instrument: Linus
Sequence: L111027
Dilution Factor: 1
Initials: LF

Printed: 11/09/11 3:59:14 PM

APPL-F1-SC-NoMC-REG MDLs

Data File : M:\LINUS\DATA\L111027\1105L039.D Vial: 39
 Acq On : 6 Nov 11 00:51 Operator: LF
 Sample : AY49336W10 1/1030 Inst : Linus
 Misc : Multiplr: 0.97

Quant Time: Nov 9 9:20 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Nov 02 15:56:51 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	6.12	136	2268	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	8.11	164	1052	2.50000	ppb	0.00
11) Phenanthrene-D10 (IS)	9.86	188	1894	2.50000	ppb	0.01
15) Chrysene-D12 (IS)	12.94	240	2526	2.50000	ppb	0.01
21) Perylene-D12 (IS)	14.57	264	2131	2.50000	ppb	0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.46	82	523	1.25007	ppb	0.01
Spiked Amount	1.942		Recovery	=	64.375%	
7) Surrogate Recovery (FBP)	7.36	172	1220	1.26300	ppb	0.01
Spiked Amount	1.942		Recovery	=	65.045%	
17) Surrogate Recovery (TPH)	11.71	244	1129	1.00774	ppb	0.00
Spiked Amount	1.942		Recovery	=	51.912%	

Target Compounds Qvalue

Quantitation Report

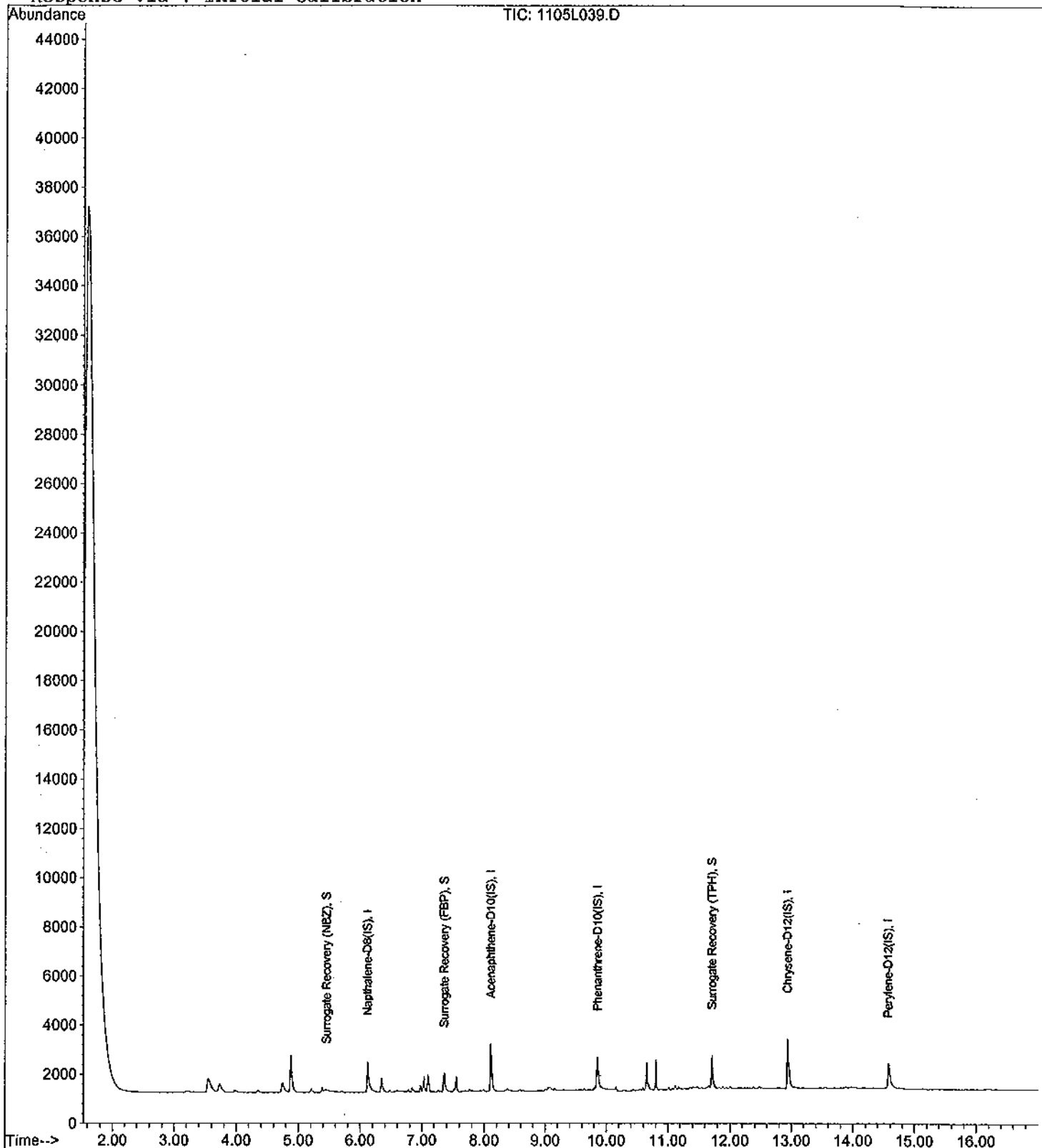
Data File : M:\LINUS\DATA\L111027\1105L039.D
Acq On : 6 Nov 11 00:51
Sample : AY49336W10 1/1030
Misc :

Vial: 39
Operator: LF
Inst : Linus
Multiplr: 0.97

Quant Time: Nov 9 9:20 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 08 16:22:04 2011
Response via : Initial Calibration



EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Calibration Data

Data File : M:\LINUS\DATA\L111027\1027L003.D
 Acq On : 27 Oct 11 19:12
 Sample : 0.1ug/ml PAH 10-27-11
 Misc :

Vial: 3
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 11:15 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)

Title : EPA 8270C
 Last Update : Sun Oct 30 10:57:42 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	6.14	136	2908	2.50000	ppb	0.02
6) Acenaphthene-D10 (IS)	8.12	164	1434	2.50000	ppb	0.01
11) Phenanthrene-D10 (IS)	9.87	188	2391	2.50000	ppb	0.02
15) Chrysene-D12 (IS)	12.95	240	2986	2.50000	ppb	0.02
21) Perylene-D12 (IS)	14.58	264	2411	2.50000	ppb	0.02
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.61	82	48	0.74306	ppb	0.19
Spiked Amount	2.000		Recovery	= 37.150%		
7) Surrogate Recovery (FBP)	7.40	172	130	0.09815	ppb	0.05
Spiked Amount	2.000		Recovery	= 4.900%		
17) Surrogate Recovery (TPH)	11.74	244	137	0.09107	ppb	0.02
Spiked Amount	2.000		Recovery	= 4.550%		
Target Compounds						
3) Naphthalene	6.17	128	215	0.10425	ppb	93
4) 2-Methylnaphthalene	7.01	142	97	0.09198	ppb	99
5) 1-Methylnaphthalene	7.08	142	117	0.09071	ppb	97
8) Acenaphthylene	7.99	152	204	0.10524	ppb	99
9) Acenaphthene	8.16	154	126	0.11351	ppb	94
10) Fluorene	8.81	166	125	0.10297	ppb	98
12) Phenanthrene	9.90	178	177	0.11216	ppb	95
13) Anthracene	9.99	178	166	0.10145	ppb	95
14) Fluoranthene	11.30	202	298	0.10883	ppb #	90
16) Pyrene	11.56	202	303	0.11040	ppb	99
18) Benz (a) anthracene	12.95	228	211	0.11702	ppb	96
19) Chrysene	12.98	228	255	0.09385	ppb	98
20) Indeno (1,2,3-cd) pyrene	16.19	276	218	0.11665	ppb #	93
22) Benzo (b) fluoranthene	14.15	252	165	0.09422	ppb #	95
23) Benzo (k) fluoranthene	14.19	252	206	0.11693	ppb	65
24) Benzo (a) pyrene	14.54	252	193	0.11081	ppb	95
25) Dibenz (a,h) anthracene	16.17	278	171	0.11827	ppb	92
26) Benzo (g,h,i) perylene	16.64	276	136	0.08955	ppb #	89

Quantitation Report

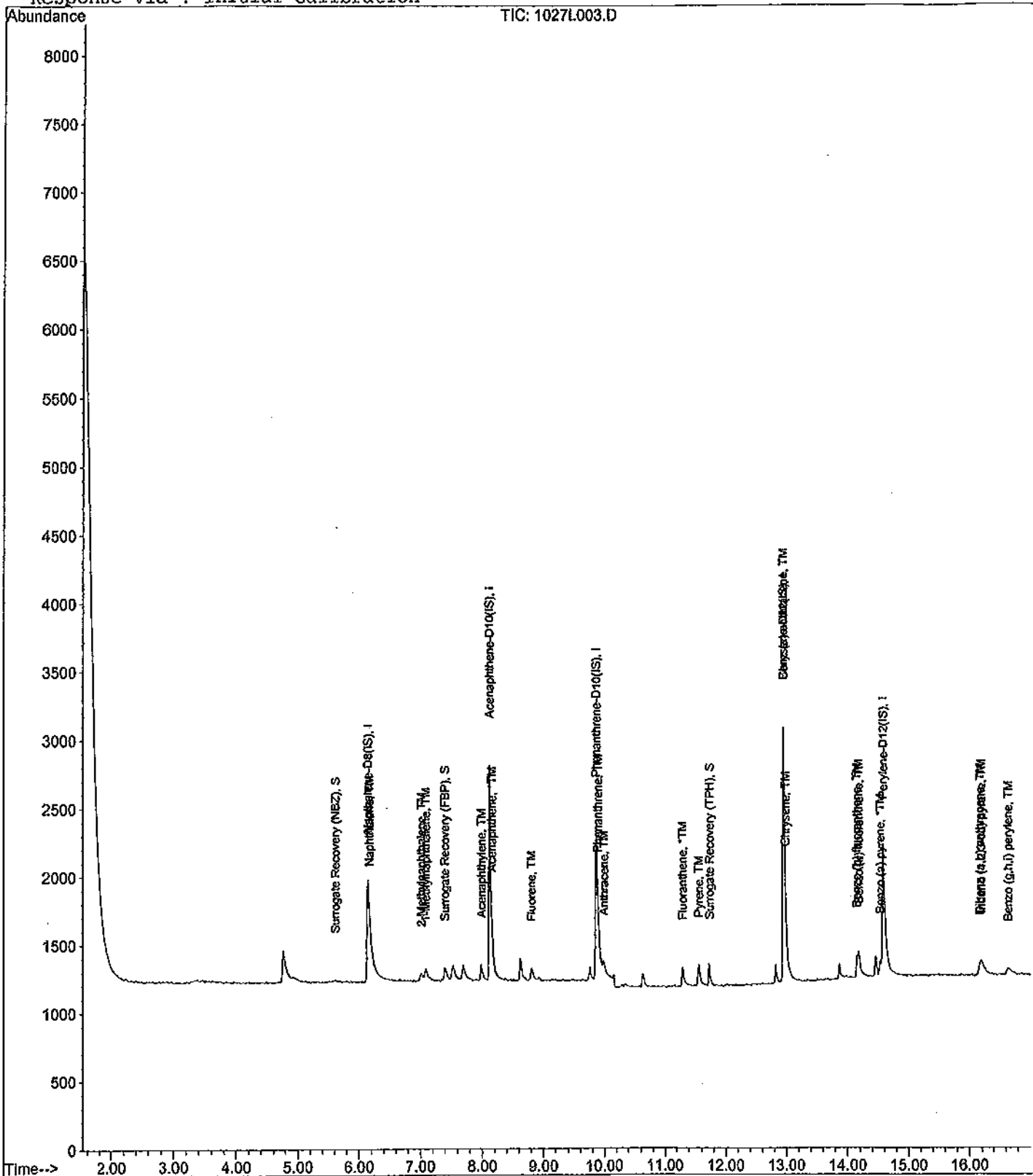
Data File : M:\LINUS\DATA\L111027\1027L003.D
 Acq On : 27 Oct 11 19:12
 Sample : 0.1ug/ml PAH 10-27-11
 Misc :

Vial: 3
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 11:15 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Nov 01 17:14:29 2011
 Response via : Initial Calibration



Data File : M:\LINUS\DATA\L111027\1027L004.D
 Acq On : 27 Oct 11 19:38
 Sample : 0.2ug/ml PAH
 Misc :

Vial: 4
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 11:13 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 30 10:57:42 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	6.14	136	2862	2.50000	ppb	0.02
6) Acenaphthene-D10 (IS)	8.12	164	1317	2.50000	ppb	0.01
11) Phenanthrene-D10 (IS)	9.87	188	2305	2.50000	ppb	0.02
15) Chrysene-D12 (IS)	12.95	240	2814	2.50000	ppb	0.02
21) Perylene-D12 (IS)	14.58	264	2323	2.50000	ppb	0.02
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.60	82	107	0.84083	ppb	0.18
Spiked Amount	2.000		Recovery	=	42.050%	
7) Surrogate Recovery (FBP)	7.40	172	250	0.20995	ppb	0.05
Spiked Amount	2.000		Recovery	=	10.500%	
17) Surrogate Recovery (TPH)	11.72	244	260	0.18421	ppb	0.01
Spiked Amount	2.000		Recovery	=	9.200%	
Target Compounds						
3) Naphthalene	6.17	128	470	0.23025	ppb	94
4) 2-Methylnaphthalene	7.00	142	193	0.18513	ppb	92
5) 1-Methylnaphthalene	7.07	142	261	0.20451	ppb	98
8) Acenaphthylene	7.99	152	366	0.20677	ppb	98
9) Acenaphthene	8.16	154	211	0.20826	ppb	87
10) Fluorene	8.81	166	232	0.20927	ppb	99
12) Phenanthrene	9.90	178	308	0.20239	ppb	96
13) Anthracene	9.99	178	310	0.19992	ppb	95
14) Fluoranthene	11.29	202	554	0.20981	ppb	95
16) Pyrene	11.55	202	542	0.21034	ppb	# 91
18) Benz (a) anthracene	12.95	228	323	0.19084	ppb	97
19) Chrysene	12.98	228	465	0.18296	ppb	99
20) Indeno (1,2,3-cd) pyrene	16.17	276	342	0.19494	ppb	# 96
22) Benzo (b) fluoranthene	14.15	252	307	0.18266	ppb	97
23) Benzo (k) fluoranthene	14.19	252	334	0.18857	ppb	64
24) Benzo (a) pyrene	14.54	252	353	0.21468	ppb	96
25) Dibenz (a,h) anthracene	16.16	278	293	0.21252	ppb	92
26) Benzo (g,h,i) perylene	16.64	276	326	0.22362	ppb	88

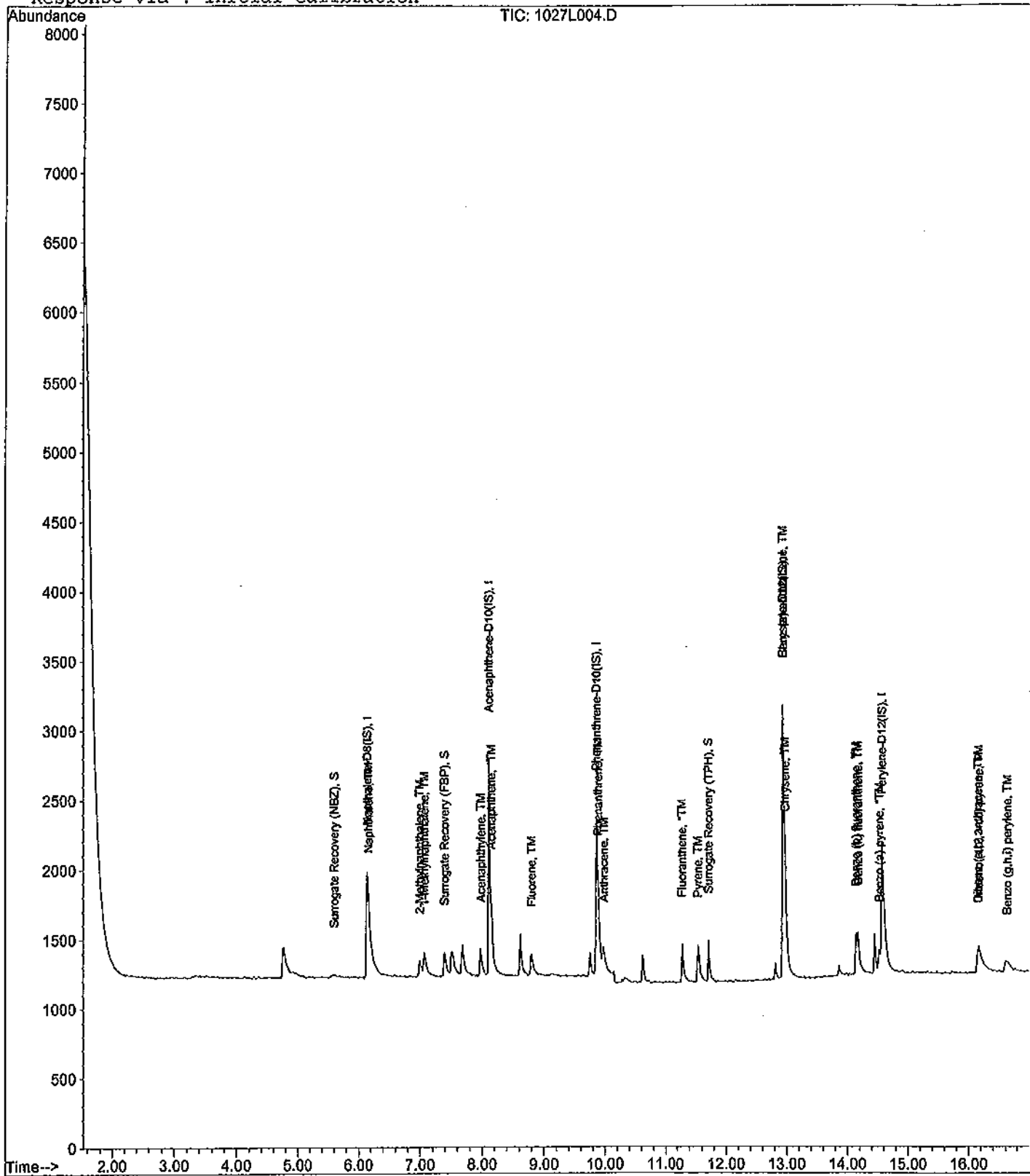
Data File : M:\LINUS\DATA\L111027\1027L004.D
 Acq On : 27 Oct 11 19:38
 Sample : 0.2ug/ml PAH
 Misc :

Vial: 4
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 11:13 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Nov 01 17:14:29 2011
 Response via : Initial Calibration



Data File : M:\LINUS\DATA\L111027\1028L005.D
 Acq On : 28 Oct 11 11:07
 Sample : 0.5ug/ml PAH
 Misc :

Vial: 5
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 11:12 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Sep 29 11:47:40 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	6.14	136	2409	2.50000	ppb	0.02
6) Acenaphthene-D10 (IS)	8.12	164	1104	2.50000	ppb	-0.01
11) Phenanthrene-D10 (IS)	9.87	188	1819	2.50000	ppb	0.00
15) Chrysene-D12 (IS)	12.95	240	2477	2.50000	ppb	-0.01
21) Perylene-D12 (IS)	14.57	264	2043	2.50000	ppb	-0.02
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.60	82	240	1.15802	ppb	0.25
Spiked Amount	2.000		Recovery	=	57.900%	
7) Surrogate Recovery (FBP)	7.39	172	547	0.79241	ppb	0.01
Spiked Amount	2.000		Recovery	=	39.600%	
17) Surrogate Recovery (TPH)	11.74	244	530	0.66674	ppb	-0.02
Spiked Amount	2.000		Recovery	=	33.350%	
Target Compounds						
3) Naphthalene	6.17	128	914	0.46769	ppb	98
4) 2-Methylnaphthalene	6.99	142	390	0.33945	ppb	96
5) 1-Methylnaphthalene	7.06	142	543	0.44086	ppb	95
8) Acenaphthylene	7.98	152	766	0.43771	ppb	99
9) Acenaphthene	8.16	154	445	0.43164	ppb	89
10) Fluorene	8.80	166	496	0.42124	ppb	99
12) Phenanthrene	9.90	178	642	0.38630	ppb	97
13) Anthracene	9.98	178	680	0.37229	ppb	95
14) Fluoranthene	11.29	202	1109	0.36672	ppb	96
16) Pyrene	11.55	202	1135	0.35574	ppb	97
18) Benz (a) anthracene	12.95	228	616	0.34309	ppb	98
19) Chrysene	12.98	228	1009	0.43128	ppb	99
20) Indeno (1,2,3-cd) pyrene	16.15	276	636	0.45186	ppb	# 96
22) Benzo (b) fluoranthene	14.14	252	746	0.48527	ppb	98
23) Benzo (k) fluoranthene	14.17	252	769	0.37285	ppb	98
24) Benzo (a) pyrene	14.52	252	674	0.41516	ppb	94
25) Dibenz (a,h) anthracene	16.14	278	480	0.46345	ppb	95
26) Benzo (g,h,i) perylene	16.59	276	614	0.46797	ppb	92

Quantitation Report

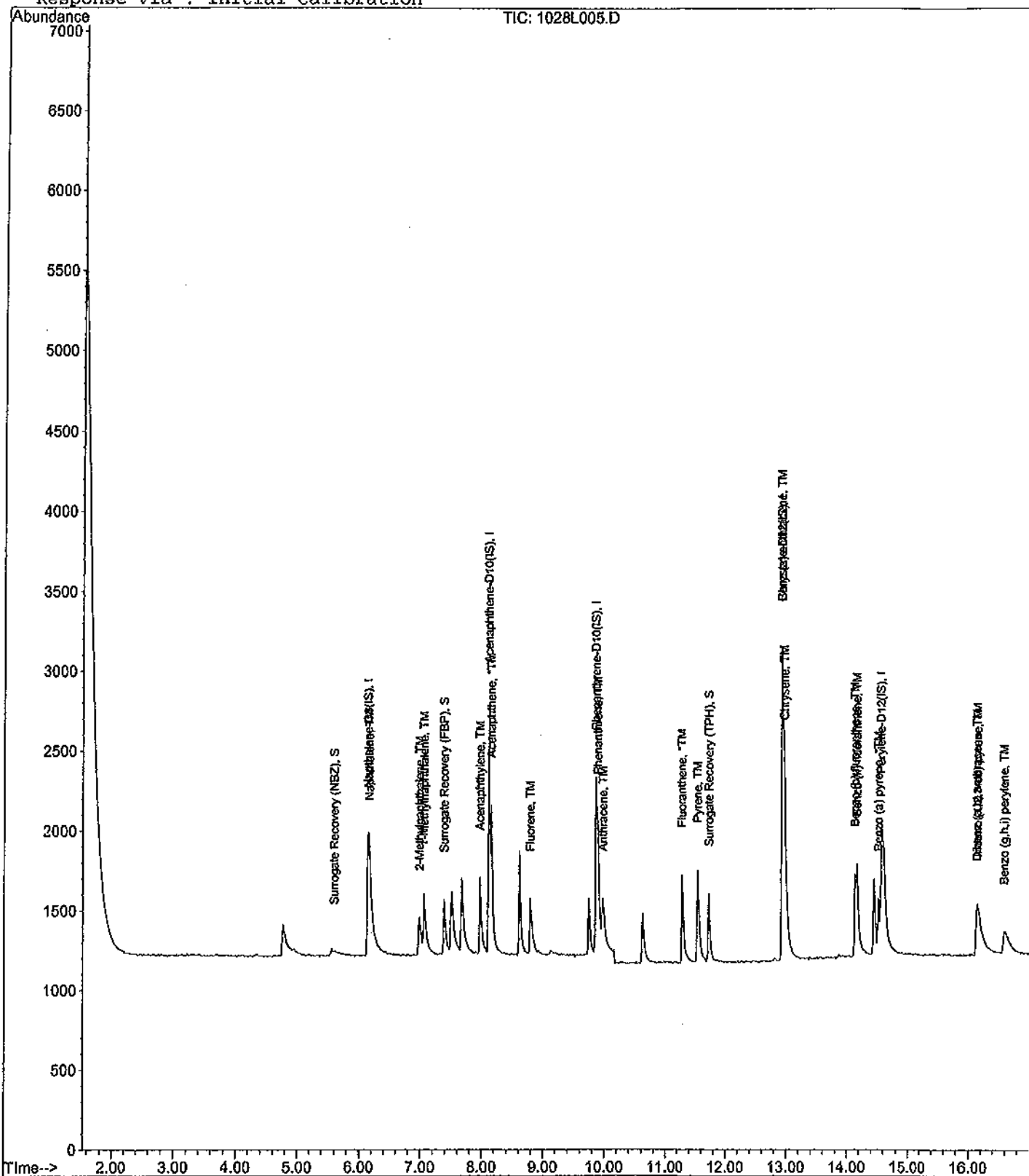
Data File : M:\LINUS\DATA\L111027\1028L005.D
 Acq On : 28 Oct 11 11:07
 Sample : 0.5ug/ml PAH
 Misc :

Vial: 5
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 11:12 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Nov 01 17:14:29 2011
 Response via : Initial Calibration



Data File : M:\LINUS\DATA\L111027\1028L006.D
 Acq On : 28 Oct 11 11:32
 Sample : 1.0ug/ml PAH
 Misc :

Vial: 6
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 11:10 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 30 10:38:04 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	6.13	136	2381	2.50000	ppb	0.01
6) Acenaphthene-D10 (IS)	8.12	164	1089	2.50000	ppb	-0.01
11) Phenanthrene-D10 (IS)	9.86	188	1865	2.50000	ppb	-0.01
15) Chrysene-D12 (IS)	12.95	240	2449	2.50000	ppb	-0.01
21) Perylene-D12 (IS)	14.57	264	2032	2.50000	ppb	-0.02
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.54	82	437	1.90266	ppb	0.00
Spiked Amount	2.000		Recovery	=	95.150%	
7) Surrogate Recovery (FBP)	7.37	172	1135	1.66686	ppb	0.00
Spiked Amount	2.000		Recovery	=	83.350%	
17) Surrogate Recovery (TPH)	11.72	244	1210	1.53959	ppb	-0.04
Spiked Amount	2.000		Recovery	=	77.000%	
Target Compounds						
3) Naphthalene	6.16	128	1881	0.97382	ppb	98
4) 2-Methylnaphthalene	6.96	142	916	0.80665	ppb	94
5) 1-Methylnaphthalene	7.05	142	1202	0.98738	ppb	89
8) Acenaphthylene	7.96	152	1632	0.94540	ppb	98
9) Acenaphthene	8.16	154	938	0.92237	ppb	91
10) Fluorene	8.79	166	1027	0.88422	ppb	98
12) Phenanthrene	9.90	178	1324	0.77703	ppb	99
13) Anthracene	9.97	178	1377	0.73529	ppb	98
14) Fluoranthene	11.28	202	2277	0.73437	ppb	# 94
16) Pyrene	11.54	202	2363	0.74909	ppb	97
18) Benz (a) anthracene	12.94	228	1529	0.86133	ppb	99
19) Chrysene	12.97	228	2071	0.89534	ppb	99
20) Indeno (1,2,3-cd) pyrene	16.12	276	1501	1.07861	ppb	# 92
22) Benzo (b) fluoranthene	14.13	252	1509	0.98690	ppb	# 96
23) Benzo (k) fluoranthene	14.16	252	1507	0.73463	ppb	96
24) Benzo (a) pyrene	14.51	252	1370	0.84844	ppb	98
25) Dibenz (a,h) anthracene	16.12	278	1169	1.13481	ppb	97
26) Benzo (g,h,i) perylene	16.58	276	1332	1.02070	ppb	98

Quantitation Report

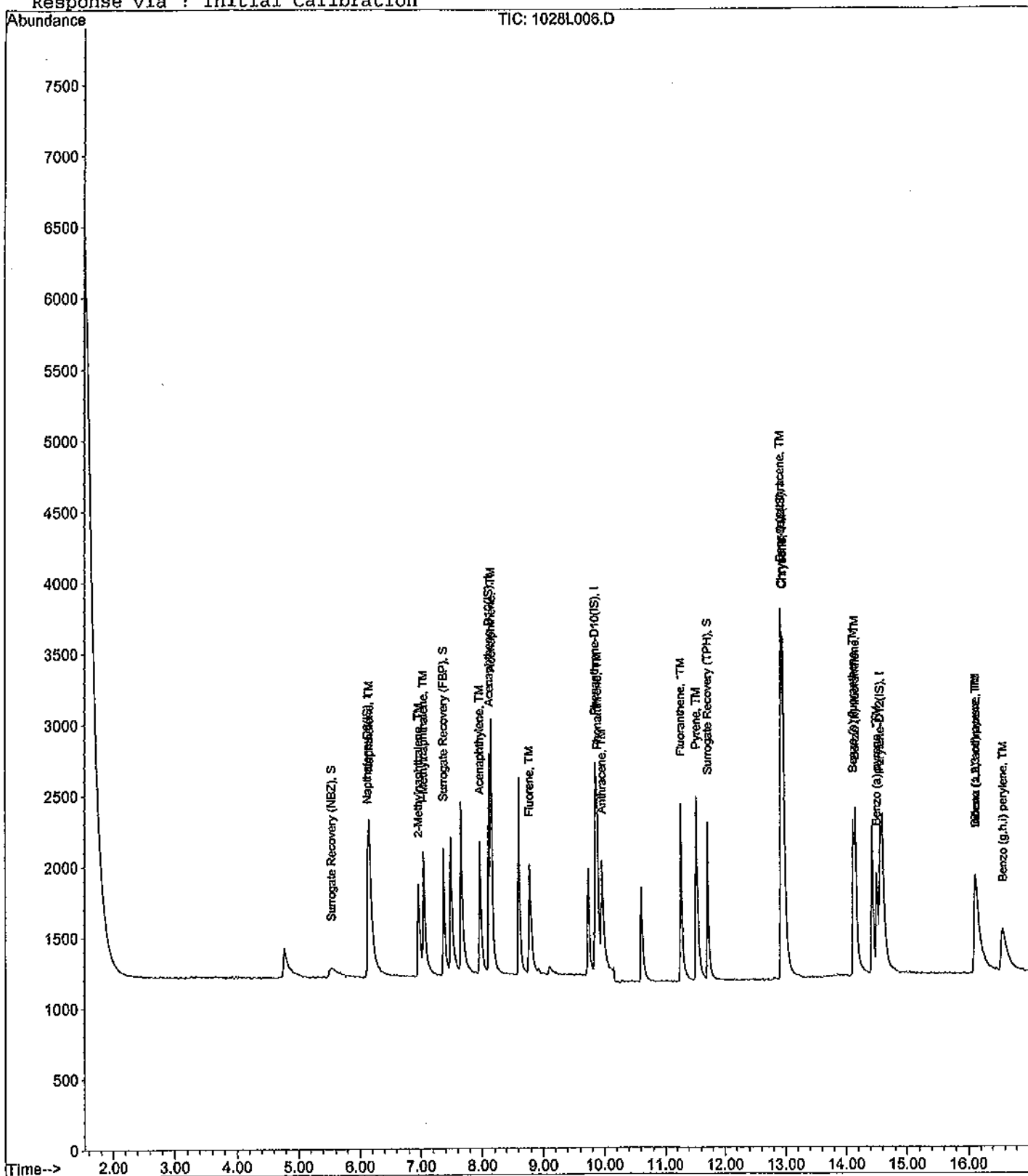
Data File : M:\LINUS\DATA\L111027\1028L006.D
 Acq On : 28 Oct 11 11:32
 Sample : 1.0ug/ml PAH
 Misc :

Vial: 6
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 11:10 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Nov 01 17:14:29 2011
 Response via : Initial Calibration



Data File : M:\LINUS\DATA\L111027\1028L007.D
 Acq On : 28 Oct 11 11:58
 Sample : 5.0ug/ml PAH
 Misc :

Vial: 7
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:40 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 30 10:38:04 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	6.12	136	2479	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	8.11	164	1083	2.50000	ppb	-0.02
11) Phenanthrene-D10 (IS)	9.85	188	1851	2.50000	ppb	-0.02
15) Chrysene-D12 (IS)	12.93	240	2378	2.50000	ppb	-0.04
21) Perylene-D12 (IS)	14.56	264	1871	2.50000	ppb	-0.04
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.42	82	1947	7.24379	ppb	-0.12
Spiked Amount	2.000		Recovery	= 362.200%		
7) Surrogate Recovery (FBP)	7.35	172	4731	6.98644	ppb	-0.02
Spiked Amount	2.000		Recovery	= 349.300%		
17) Surrogate Recovery (TPH)	11.71	244	5216	6.83493	ppb	-0.05
Spiked Amount	2.000		Recovery	= 341.750%		
Target Compounds						
3) Naphthalene	6.14	128	7358	3.65875	ppb	99
4) 2-Methylnaphthalene	6.93	142	4331	3.66320	ppb	98
5) 1-Methylnaphthalene	7.04	142	4683	3.69477	ppb	97
8) Acenaphthylene	7.95	152	6597	3.84274	ppb	100
9) Acenaphthene	8.15	154	3814	3.77124	ppb	92
10) Fluorene	8.76	166	4219	3.65257	ppb	99
12) Phenanthrene	9.87	178	5443	3.21854	ppb	98
13) Anthracene	9.94	178	5527	2.97363	ppb	99
14) Fluoranthene	11.26	202	9367	3.04387	ppb	98
16) Pyrene	11.51	202	9724	3.17462	ppb	97
18) Benz (a) anthracene	12.91	228	6027	3.49657	ppb	98
19) Chrysene	12.96	228	9422	4.19498	ppb	99
20) Indeno (1,2,3-cd) pyrene	16.06	276	6554	4.85029	ppb	95
22) Benzo (b) fluoranthene	14.10	252	6693	4.75397	ppb	# 96
23) Benzo (k) fluoranthene	14.14	252	6995	3.70332	ppb	99
24) Benzo (a) pyrene	14.49	252	6259	4.20974	ppb	98
25) Dibenz (a,h) anthracene	16.08	278	5075	5.35048	ppb	97
26) Benzo (g,h,i) perylene	16.51	276	5423	4.51321	ppb	98

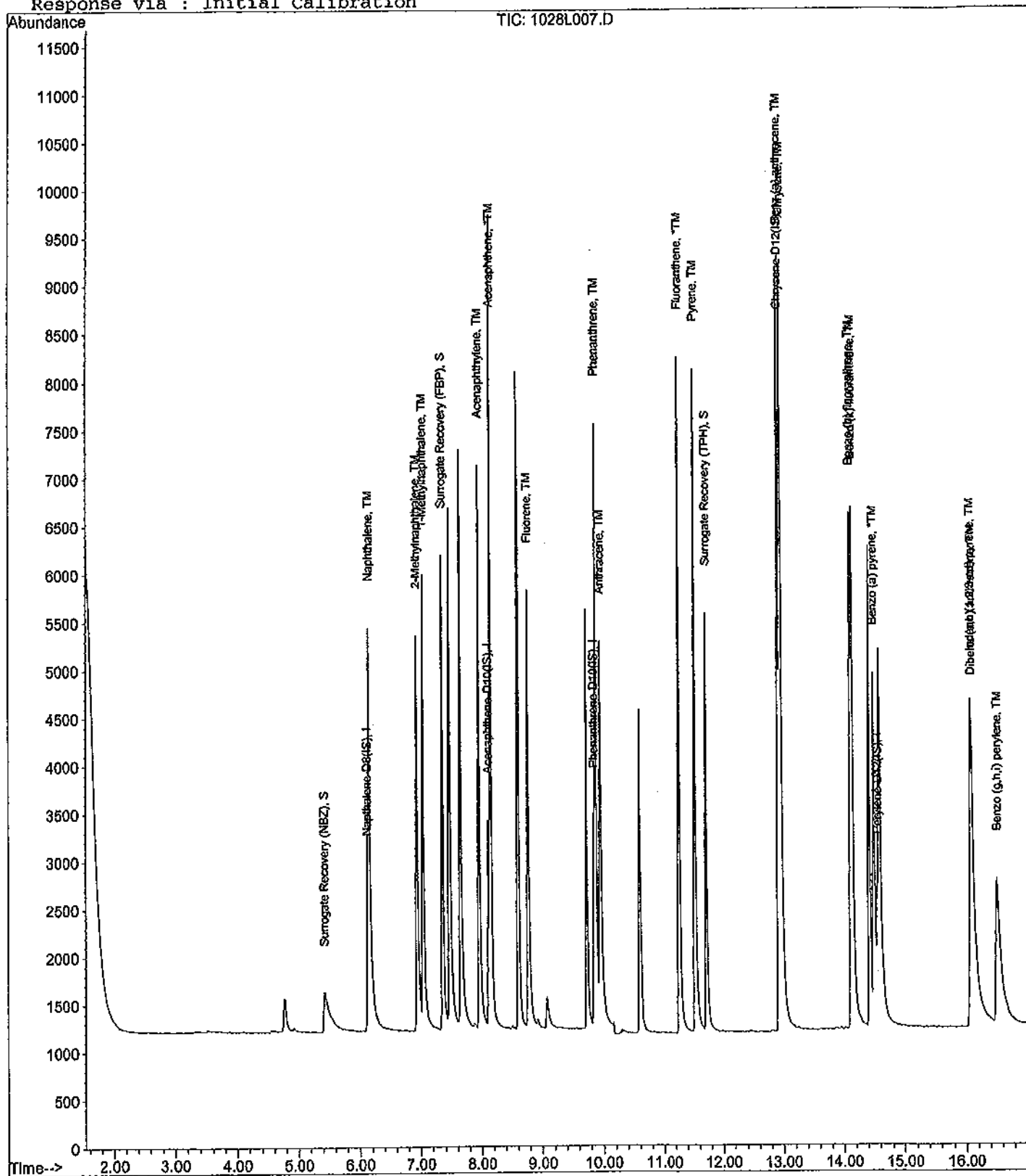
Data File : M:\LINUS\DATA\L111027\1028L007.D
Acq On : 28 Oct 11 11:58
Sample : 5.0ug/ml PAH
Misc :

Vial: 7
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 10:40 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 01 17:14:29 2011
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L111027\1028L008.D Vial: 8
 Acq On : 28 Oct 11 12:23 Operator: LF
 Sample : 10ug/ml PAH Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 30 10:41 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 30 10:38:04 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	6.12	136	2419	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	8.11	164	1154	2.50000	ppb	-0.02
11) Phenanthrene-D10 (IS)	9.85	188	1800	2.50000	ppb	-0.02
15) Chrysene-D12 (IS)	12.91	240	2580	2.50000	ppb	-0.05
21) Perylene-D12 (IS)	14.55	264	2113	2.50000	ppb	-0.05

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	5.38	82	3973	14.84926	ppb	-0.16
Spiked Amount	2.000		Recovery	= 742.450%		
7) Surrogate Recovery (FBP)	7.35	172	9747	13.50818	ppb	-0.02
Spiked Amount	2.000		Recovery	= 675.400%		
17) Surrogate Recovery (TPH)	11.70	244	11014	13.30251	ppb	-0.06
Spiked Amount	2.000		Recovery	= 665.150%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	6.13	128	16688	8.50390	ppb	99
4) 2-Methylnaphthalene	6.92	142	9930	8.60721	ppb	100
5) 1-Methylnaphthalene	7.02	142	10317	8.34175	ppb	92
8) Acenaphthylene	7.95	152	15071	8.23870	ppb	99
9) Acenaphthene	8.15	154	8403	7.79759	ppb	97
10) Fluorene	8.75	166	9496	7.71528	ppb	98
12) Phenanthrene	9.87	178	12375	7.52487	ppb	99
13) Anthracene	9.93	178	12631	6.98825	ppb	99
14) Fluoranthene	11.25	202	21698	7.25069	ppb	# 93
16) Pyrene	11.50	202	22373	6.73230	ppb	# 85
18) Benz (a) anthracene	12.91	228	14154	7.56854	ppb	100
19) Chrysene	12.95	228	21503	8.82425	ppb	99
20) Indeno (1,2,3-cd) pyrene	16.03	276	15698	10.70773	ppb	# 96
22) Benzo (b) fluoranthene	14.09	252	15772	9.91966	ppb	96
23) Benzo (k) fluoranthene	14.13	252	16351	7.66517	ppb	98
24) Benzo (a) pyrene	14.48	252	14853	8.84584	ppb	98
25) Dibenz (a,h) anthracene	16.05	278	12481	11.65147	ppb	96
26) Benzo (g,h,i) perylene	16.47	276	13167	9.70302	ppb	97

Quantitation Report

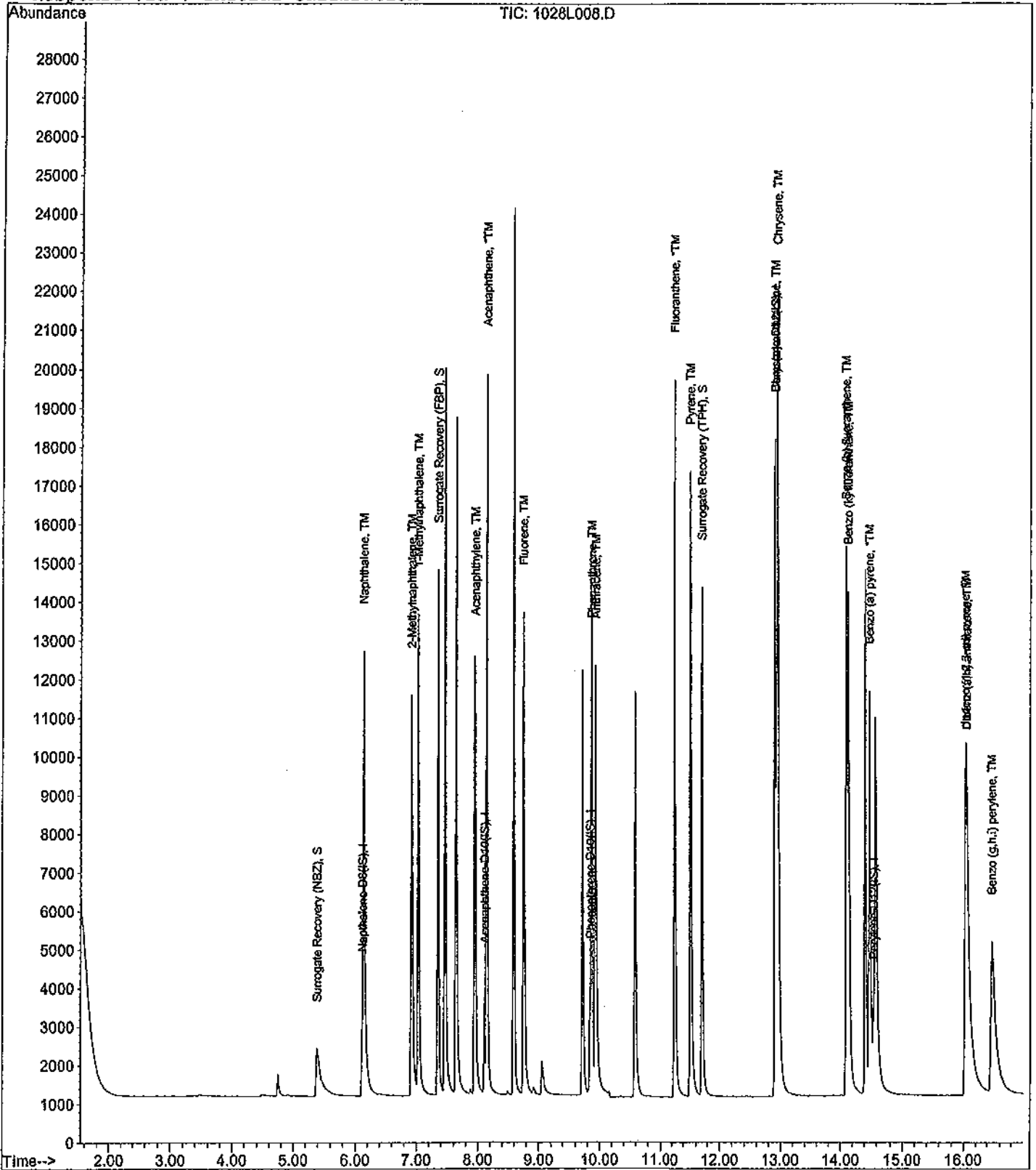
Data File : M:\LINUS\DATA\L111027\1028L008.D
 Acq On : 28 Oct 11 12:23
 Sample : 10ug/ml PAH
 Misc :

Vial: 8
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:41 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Nov 01 17:14:29 2011
 Response via : Initial Calibration



Data File : M:\LINUS\DATA\L111027\1028L009.D
 Acq On : 28 Oct 11 12:49
 Sample : 50ug/ml PAH
 Misc :

Vial: 9
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:41 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)

Title : EPA 8270C
 Last Update : Sun Oct 30 10:41:31 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	6.11	136	2170	2.50000	ppb	-0.01
6) Acenaphthene-D10 (IS)	8.11	164	955	2.50000	ppb	-0.02
11) Phenanthrene-D10 (IS)	9.84	188	1764	2.50000	ppb	-0.04
15) Chrysene-D12 (IS)	12.91	240	2325	2.50000	ppb	-0.05
21) Perylene-D12 (IS)	14.54	264	1951	2.50000	ppb	-0.06

System Monitoring Compounds

2) Surrogate Recovery (NBZ)	5.34	82	19569	80.30257	ppb	0.00
Spiked Amount	2.000		Recovery	= 4015.150%		
7) Surrogate Recovery (FBP)	7.34	172	37203	62.30259	ppb	-0.04
Spiked Amount	2.000		Recovery	= 3115.150%		
17) Surrogate Recovery (TPH)	11.70	244	43552	58.37048	ppb	-0.06
Spiked Amount	2.000		Recovery	= 2918.500%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	6.12	128	64981	36.91273	ppb	98
4) 2-Methylnaphthalene	6.92	142	39285	37.95912	ppb	91
5) 1-Methylnaphthalene	7.02	142	37731	34.00777	ppb	98
8) Acenaphthylene	7.94	152	59152	39.07406	ppb	100
9) Acenaphthene	8.13	154	32228	36.13782	ppb	90
10) Fluorene	8.75	166	36584	35.91740	ppb	95
12) Phenanthrene	9.86	178	48574	30.13920	ppb	99
13) Anthracene	9.92	178	49934	28.19038	ppb	99
14) Fluoranthene	11.23	202	84927	28.95874	ppb	# 86
16) Pyrene	11.50	202	87985	29.37950	ppb	93
18) Benz (a) anthracene	12.90	228	63776	37.84310	ppb	99
19) Chrysene	12.94	228	76944	35.03889	ppb	99
20) Indeno (1,2,3-cd) pyrene	16.01	276	67886	51.38427	ppb	97
22) Benzo (b) fluoranthene	14.09	252	68863	46.90706	ppb	# 96
23) Benzo (k) fluoranthene	14.12	252	60905	30.92236	ppb	100
24) Benzo (a) pyrene	14.45	252	61841	39.88811	ppb	# 94
25) Dibenz (a,h) anthracene	16.02	278	54590	55.19334	ppb	99
26) Benzo (g,h,i) perylene	16.44	276	56362	44.98303	ppb	98

Quantitation Report

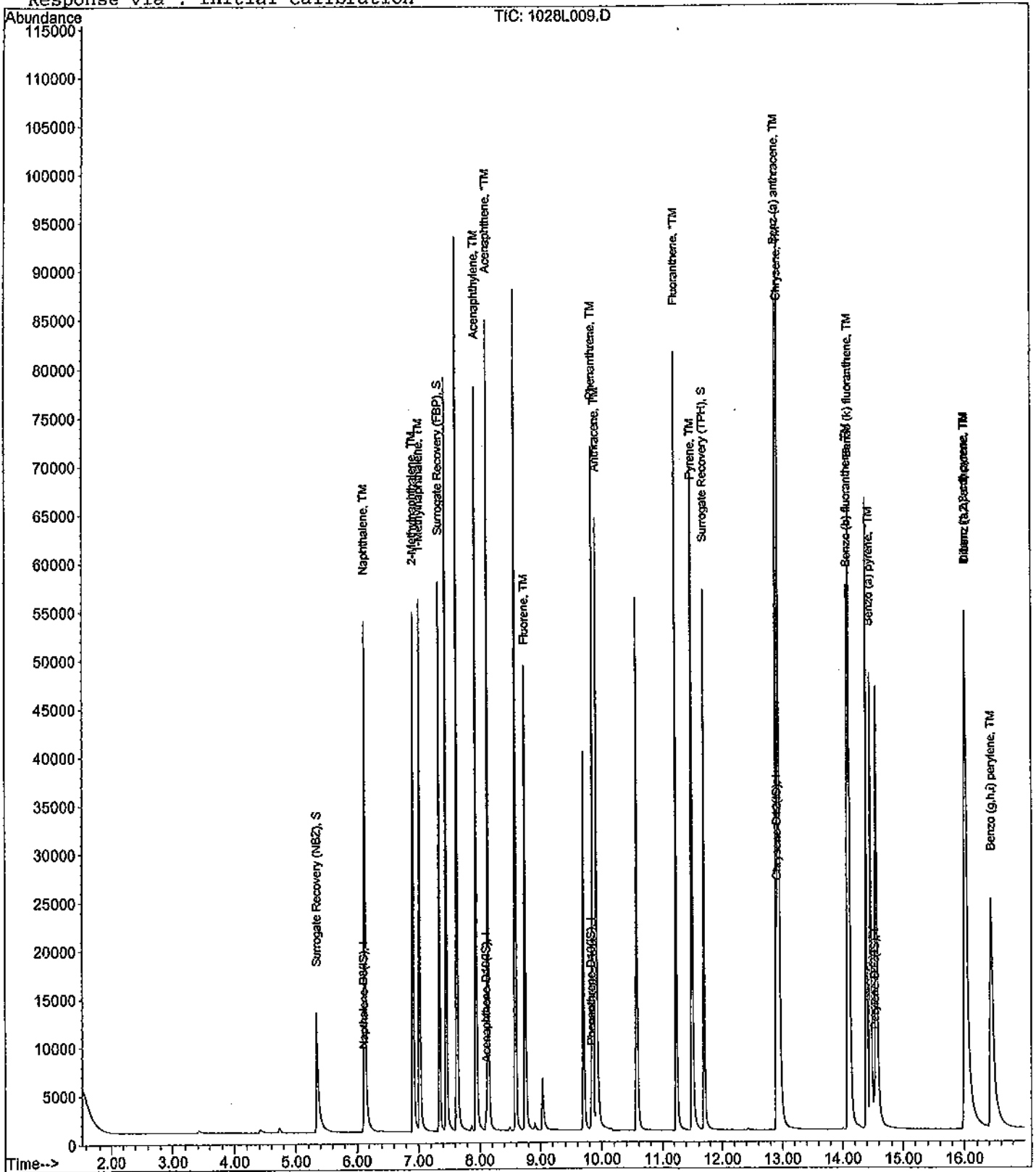
Data File : M:\LINUS\DATA\L111027\1028L009.D
 Acq On : 28 Oct 11 12:49
 Sample : 50ug/ml PAH
 Misc :

Vial: 9
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:41 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Nov 01 17:14:29 2011
 Response via : Initial Calibration



Data File : M:\LINUS\DATA\L111027\1028L010.D Vial: 10
 Acq On : 28 Oct 11 13:14 Operator: LF
 Sample : 100ug/ml PAH Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 30 10:42 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 30 10:41:31 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	6.11	136	2028	2.50000	ppb	-0.01
6) Acenaphthene-D10 (IS)	8.11	164	919	2.50000	ppb	-0.02
11) Phenanthrene-D10 (IS)	9.84	188	1786	2.50000	ppb	-0.04
15) Chrysene-D12 (IS)	12.91	240	2218	2.50000	ppb	-0.05
21) Perylene-D12 (IS)	14.54	264	1949	2.50000	ppb	-0.06
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.32	82	39811	174.48341	ppb	-0.01
Spiked Amount	2.000		Recovery	= 8724.150%		
7) Surrogate Recovery (FBP)	7.34	172	68503	119.21355	ppb	-0.04
Spiked Amount	2.000		Recovery	= 5960.700%		
17) Surrogate Recovery (TPH)	11.70	244	80239	112.72808	ppb	-0.06
Spiked Amount	2.000		Recovery	= 5636.400%		
Target Compounds						
3) Napthalene	6.12	128	118023	71.73782	ppb	98
4) 2-Methylnaphthalene	6.92	142	72350	74.80311	ppb	91
5) 1-Methylnaphthalene	7.02	142	67525	65.12327	ppb	99
8) Acenaphthylene	7.94	152	108807	74.69023	ppb	99
9) Acenaphthene	8.13	154	58631	68.31936	ppb	89
10) Fluorene	8.75	166	64716	66.02573	ppb	95
12) Phenanthrene	9.86	178	89156	54.63809	ppb	98
13) Anthracene	9.92	178	91266	50.88980	ppb	98
14) Fluoranthene	11.23	202	154470	52.02296	ppb #	84
16) Pyrene	11.50	202	164055	57.42311	ppb #	90
18) Benz (a) anthracene	12.90	228	140011	87.08694	ppb	99
19) Chrysene	12.94	228	127613	60.91607	ppb #	95
20) Indeno (1,2,3-cd) pyrene	16.02	276	133093	105.60065	ppb #	87
22) Benzo (b) fluoranthene	14.09	252	126697	86.39011	ppb	96
23) Benzo (k) fluoranthene	14.12	252	120651	61.31914	ppb #	94
24) Benzo (a) pyrene	14.47	252	119503	77.15982	ppb	95
25) Dibenz (a,h) anthracene	16.03	278	107509	108.80876	ppb	91
26) Benzo (g,h,i) perylene	16.44	276	112699	90.03841	ppb	99

Quantitation Report

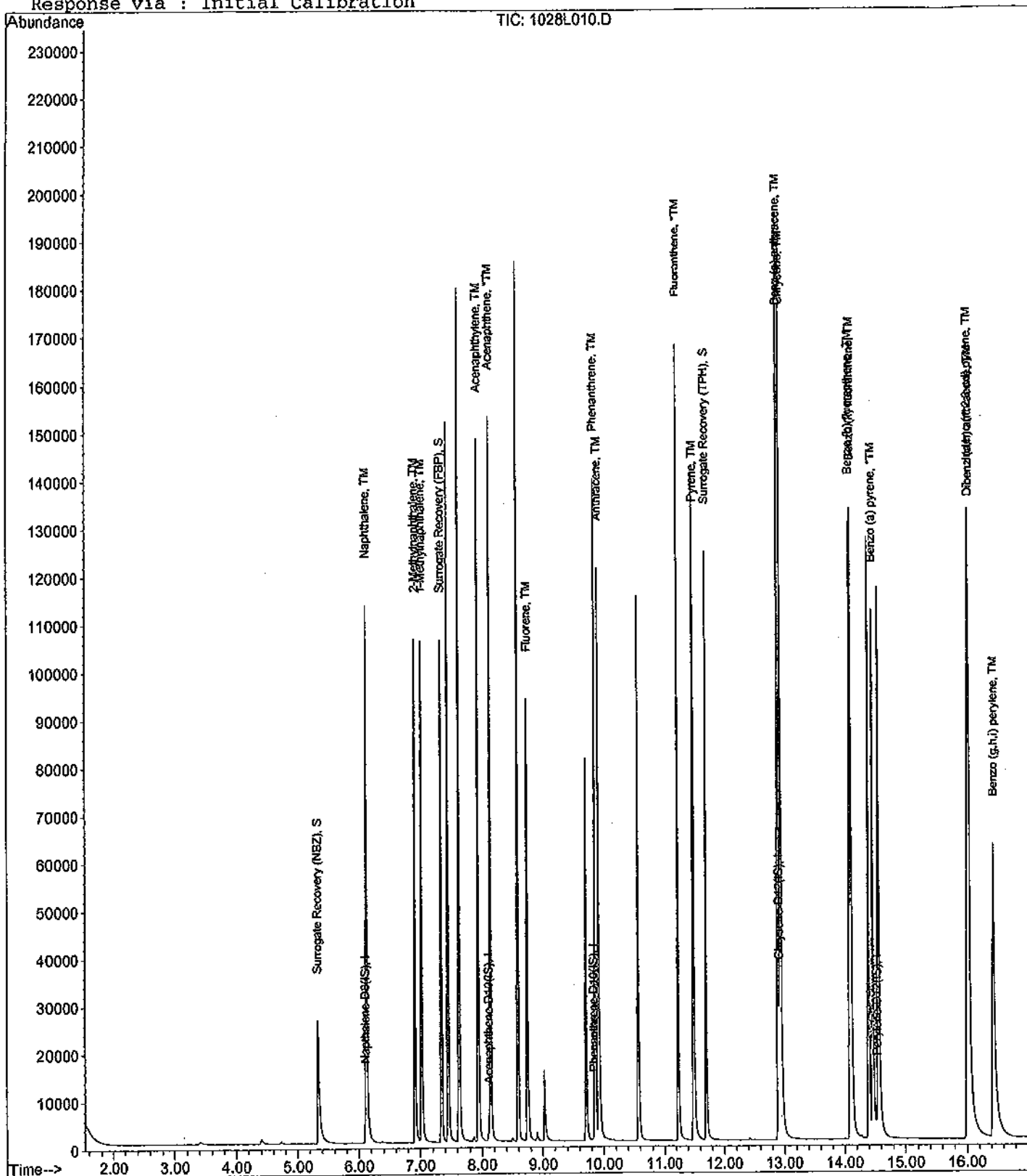
Data File : M:\LINUS\DATA\L111027\1028L010.D
 Acq On : 28 Oct 11 13:14
 Sample : 100ug/ml PAH
 Misc :

Vial: 10
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:42 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Nov 01 17:14:29 2011
 Response via : Initial Calibration



Form 7

Second Source Calibration

Lab Name: APPL, Inc.
 Case No: _____
 Matrix: _____

SDG No: 0660
 Date Analyzed: 10/28/11
 Instrument: Linus
 Initial Cal. Date: 10/27/11
 Data File: 1028L011.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	Naphthalene-D8(IS)	ISTD			I
2	TM	Naphthalene	1.742	1.546	11	TM
3	TM	2-Methylnaphthalene	0.8931	0.8782	1.7	TM
4	TM	1-Methylnaphthalene	1.031	1.007	2.4	TM
5	I	Acenaphthene-D10(IS)	ISTD			I
6	TM	Acenaphthylene	3.327	3.132	5.8	TM
7	*TM	Acenaphthene	1.904	1.812	4.8	*TM
8	TM	Fluorene	2.083	1.993	4.3	TM
9	I	Phenanthrene-D10(IS)	ISTD			I
10	TM	Phenanthrene	1.609	1.555	3.4	TM
11	TM	Anthracene	1.634	1.624	0.64	TM
12	*TM	Fluoranthene	2.792	2.916	4.4	*TM
13	I	Chrysene-D12(IS)	ISTD			I
14	TM	Pyrene	2.200	2.429	10	TM
15	TM	Benz (a) anthracene	1.449	1.392	3.9	TM
16	TM	Chrysene	1.939	2.190	13	TM
17	TM	Indeno (1,2,3-cd) pyrene	1.502	1.468	2.3	TM
18	I	Perylene-D12(IS)	ISTD			I
19	TM	Benzo (b) fluoranthene	1.761	1.686	4.3	TM
20	TM	Benzo (k) fluoranthene	1.823	2.176	19	TM
21	*TM	Benzo (a) pyrene	1.723	1.689	1.9	*TM
22	TM	Dibenz (a,h) anthracene	1.447	1.354	6.4	TM
23	TM	Benzo (g,h,i) perylene	1.525	1.483	2.8	TM
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						

Average

5.7

Data File : M:\LINUS\DATA\L111027\1028L011.D
 Acq On : 28 Oct 11 13:40
 Sample : 5.0ug/ml SS PAH 10-27-11
 Misc :

Vial: 11
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 11:17 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTÉ Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 30 11:15:17 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	6.13	136	2295	2.50000	ppb	0.01
6) Acenaphthene-D10 (IS)	8.11	164	1033	2.50000	ppb	0.00
11) Phenanthrene-D10 (IS)	9.85	188	1773	2.50000	ppb	0.00
15) Chrysene-D12 (IS)	12.93	240	2205	2.50000	ppb	0.00
21) Perylene-D12 (IS)	14.56	264	1840	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	0.00	82	0d	0.00000	ppb	
Spiked Amount	2.000		Recovery	=	0.000%	
7) Surrogate Recovery (FBP)	0.00	172	0d	0.00000	ppb	
Spiked Amount	2.000		Recovery	=	0.000%	
17) Surrogate Recovery (TPH)	0.00	244	0d	0.00000	ppb	
Spiked Amount	2.000		Recovery	=	0.000%	
Target Compounds						
3) Naphthalene	6.14	128	7095	4.43732	ppb	99
4) 2-Methylnaphthalene	6.93	142	4031	4.91655	ppb	99
5) 1-Methylnaphthalene	7.04	142	4620	4.88168	ppb	94
8) Acenaphthylene	7.95	152	6471	4.70758	ppb	99
9) Acenaphthene	8.15	154	3744	4.75904	ppb	91
10) Fluorene	8.76	166	4117	4.78272	ppb	99
12) Phenanthrene	9.87	178	5514	4.83130	ppb	99
13) Anthracene	9.94	178	5757	4.96794	ppb	98
14) Fluoranthene	11.26	202	10339	5.22192	ppb	93
16) Pyrene	11.51	202	10711	5.51952	ppb	# 91
18) Benz (a) anthracene	12.93	228	6140	4.80346	ppb	99
19) Chrysene	12.96	228	9659	5.64891	ppb	99
20) Indeno (1,2,3-cd) pyrene	16.06	276	6475	4.88617	ppb	# 91
22) Benzo (b) fluoranthene	14.12	252	6204	4.78607	ppb	99
23) Benzo (k) fluoranthene	14.14	252	8006	5.96784	ppb	# 65
24) Benzo (a) pyrene	14.49	252	6217	4.90268	ppb	97
25) Dibenz (a,h) anthracene	16.08	278	4984	4.68078	ppb	96
26) Benzo (g,h,i) perylene	16.52	276	5458	4.86160	ppb	99

Quantitation Report

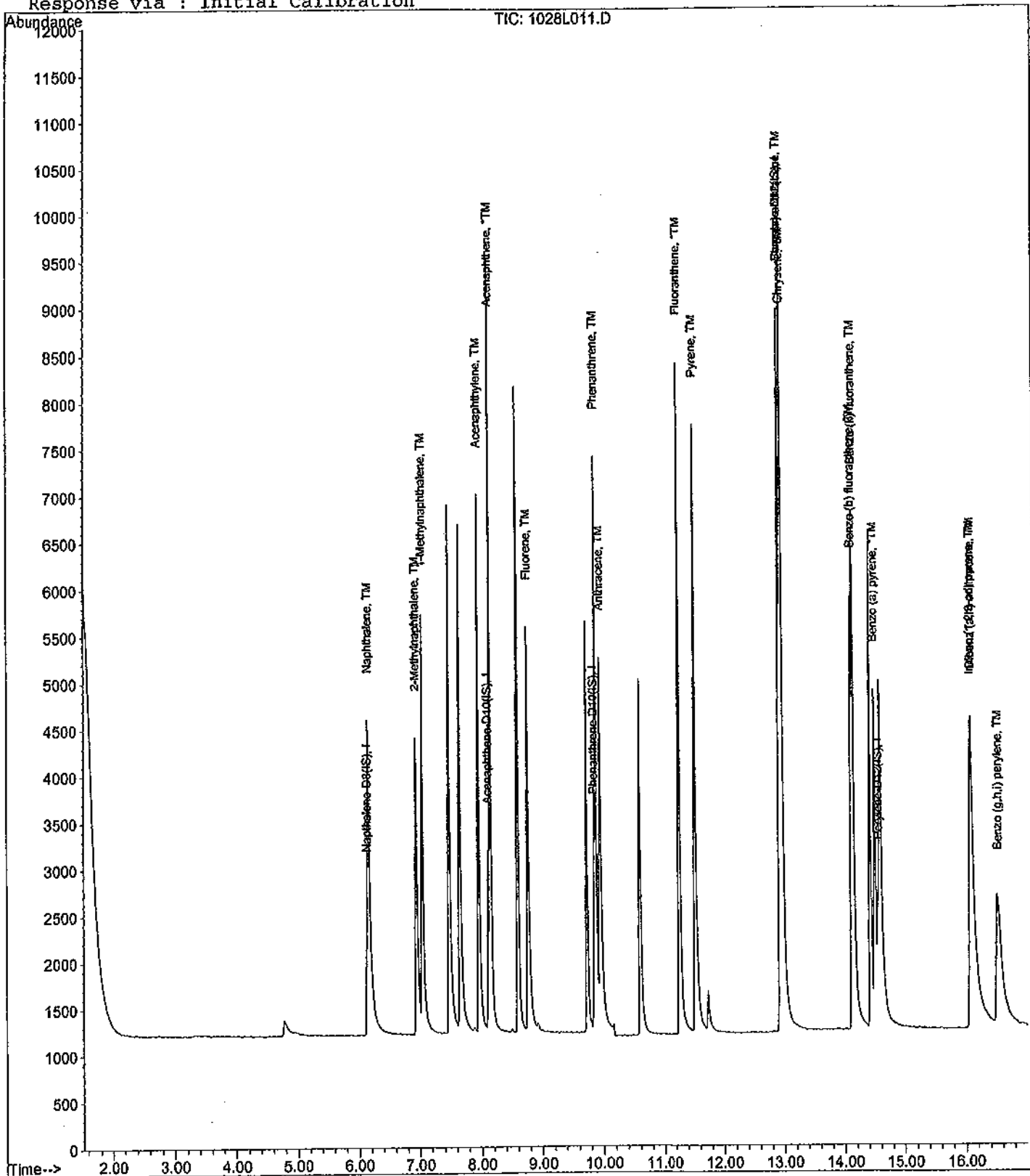
Data File : M:\LINUS\DATA\L111027\1028L011.D
Acq On : 28 Oct 11 13:40
Sample : 5.0ug/ml SS PAH 10-27-11
Misc :

Vial: 11
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 11:17 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 01 17:14:29 2011
Response via : Initial Calibration



EPA 8270C SIM

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
 Case No: _____
 Matrix: _____

SDG No: 6660
 Date Analyzed: 5 Nov 11 16:54
 Instrument: Linus
 Initial Cal. Date: 10/27/11
 Data File: 1105L020.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Naphthalene-D8(IS)	ISTD			I
2	S Surrogate Recovery (NBZ)	0.4477	0.4479	0.03	S
3	TM Naphthalene	1.742	1.518	13	TM
4	TM 2-Methylnaphthalene	0.8931	0.9102	1.9	TM
5	TM 1-Methylnaphthalene	1.031	0.9456	8.3	TM
6	I Acenaphthene-D10(IS)	ISTD			I
7	S Surrogate Recovery (FBP)	2.229	2.036	8.6	S
8	TM Acenaphthylene	3.327	3.080	7.4	TM
9	*TM Acenaphthene	1.904	1.695	11	*TM
10	TM Fluorene	2.083	1.961	5.9	TM
11	I Phenanthrene-D10(IS)	ISTD			I
12	TM Phenanthrene	1.609	1.494	7.2	TM
13	TM Anthracene	1.634	1.588	2.8	TM
14	*TM Fluoranthene	2.792	2.868	2.7	*TM
15	I Chrysene-D12(IS)	ISTD			I
16	TM Pyrene	2.200	2.193	0.31	TM
17	S Surrogate Recovery (TPH)	1.077	1.106	2.7	S
18	TM Benz (a) anthracene	1.449	1.737	20	TM
19	TM Chrysene	1.939	1.906	1.7	TM
20	TM Indeno (1,2,3-cd) pyrene	1.502	1.682	12	TM
21	I Perylene-D12(IS)	ISTD			I
22	TM Benzo (b) fluoranthene	1.761	1.921	9.1	TM
23	TM Benzo (k) fluoranthene	1.823	1.713	6.0	TM
24	*TM Benzo (a) pyrene	1.723	1.698	1.4	*TM
25	TM Dibenz (a,h) anthracene	1.447	1.482	2.5	TM
26	TM Benzo (g,h,i) perylene	1.525	1.535	0.66	TM
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					

Average

6.0

Data File : M:\LINUS\DATA\L111027\1105L020.D
 Acq On : 5 Nov 11 16:54
 Sample : 5.0ug/ml PAH 10-27-11
 Misc :

Vial: 20
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Nov 8 9:47 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Nov 02 15:56:51 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	6.11	136	1948	2.50000	ppb	-0.01
6) Acenaphthene-D10 (IS)	8.11	164	877	2.50000	ppb	0.00
11) Phenanthrene-D10 (IS)	9.85	188	1506	2.50000	ppb	0.00
15) Chrysene-D12 (IS)	12.93	240	2029	2.50000	ppb	0.00
21) Perylene-D12 (IS)	14.56	264	1837	2.50000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	5.38	82	1745	5.00173	ppb	-0.06
Spiked Amount 2.000			Recovery =	250.100%		
7) Surrogate Recovery (FBP)	7.35	172	3572	4.56887	ppb	0.00
Spiked Amount 2.000			Recovery =	228.450%		
17) Surrogate Recovery (TPH)	11.70	244	4488	5.13686	ppb	-0.01
Spiked Amount 2.000			Recovery =	256.850%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	6.13	128	5914	4.35756	ppb	99
4) 2-Methylnaphthalene	6.92	142	3546	5.09542	ppb	94
5) 1-Methylnaphthalene	7.02	142	3684	4.58607	ppb	92
8) Acenaphthylene	7.95	152	5403	4.62980	ppb	99
9) Acenaphthene	8.15	154	2973	4.45122	ppb	95
10) Fluorene	8.75	166	3440	4.70710	ppb	96
12) Phenanthrene	9.87	178	4499	4.64084	ppb	100
13) Anthracene	9.93	178	4783	4.85919	ppb	97
14) Fluoranthene	11.26	202	8637	5.13568	ppb	98
16) Pyrene	11.51	202	8901	4.98467	ppb	97
18) Benz (a) anthracene	12.91	228	7049	5.99294	ppb	98
19) Chrysene	12.96	228	7735	4.91608	ppb	98
20) Indeno (1,2,3-cd) pyrene	16.06	276	6825	5.59703	ppb	# 91
22) Benzo (b) fluoranthene	14.10	252	7058	5.45378	ppb	97
23) Benzo (k) fluoranthene	14.14	252	6292	4.69785	ppb	95
24) Benzo (a) pyrene	14.49	252	6239	4.92807	ppb	99
25) Dibenz (a,h) anthracene	16.06	278	5446	5.12302	ppb	99
26) Benzo (g,h,i) perylene	16.51	276	5641	5.03281	ppb	96

Quantitation Report

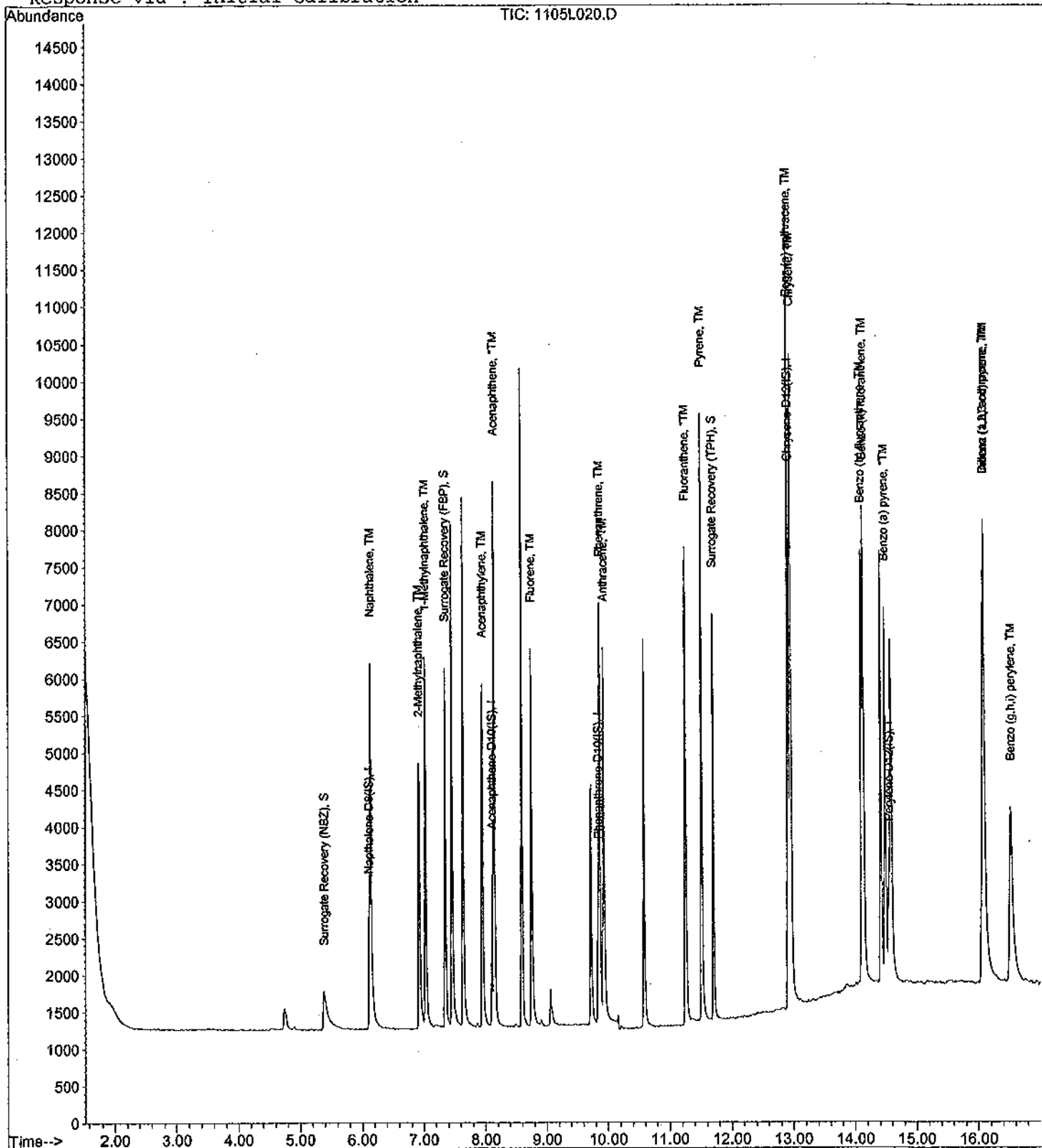
Data File : M:\LINUS\DATA\L111027\1105L020.D
 Acq On : 5 Nov 11 16:54
 Sample : 5.0ug/ml PAH 10-27-11
 Misc :

Vial: 20
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Nov 8 9:47 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Nov 08 16:22:04 2011
 Response via : Initial Calibration



EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Raw Data

Method Blank
EPA 8270D SIM

Blank Name/QCG: 111031W-49334 - 161019
Batch ID: #SIMHC-111031A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
BLANK	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
BLANK	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
BLANK	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
BLANK	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/05/11
BLANK	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/05/11
BLANK	BENZO(A)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/05/11
BLANK	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
BLANK	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	10/31/11	11/05/11
BLANK	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/05/11
BLANK	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/05/11
BLANK	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/05/11
BLANK	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	10/31/11	11/05/11
BLANK	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
BLANK	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/05/11
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/05/11
BLANK	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/05/11
BLANK	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	10/31/11	11/05/11
BLANK	SURROGATE: 2-FLUORBIPHENY	51.7	50-110			%	10/31/11	11/05/11
BLANK	SURROGATE: NITROBENZENE-	66.3	40-110			%	10/31/11	11/05/11
BLANK	SURROGATE: TERPHENYL-D14 (	54.5	50-135			%	10/31/11	11/05/11

Quant Method: SIM2.M
Run #: 1105L028
Instrument: Linus
Sequence: L111027
Initials: LF

GC SC-Blank-REG MDLs
Printed: 11/09/11 3:59:20 PM

Data File : M:\LINUS\DATA\L111027\1105L028.D
 Acq On : 5 Nov 11 20:15
 Sample : 111031A BLK 1/1000
 Misc :

Vial: 28
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Nov 9 8:48 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Nov 02 15:56:51 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	6.12	136	2305	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	8.11	164	1068	2.50000	ppb	0.00
11) Phenanthrene-D10 (IS)	9.86	188	2122	2.50000	ppb	0.01
15) Chrysene-D12 (IS)	12.94	240	2454	2.50000	ppb	0.01
21) Perylene-D12 (IS)	14.57	264	2143	2.50000	ppb	0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.42	82	547	1.32504	ppb	-0.02
Spiked Amount 2.000			Recovery =	66.250%		
7) Surrogate Recovery (FBP)	7.36	172	984	1.03352	ppb	0.01
Spiked Amount 2.000			Recovery =	51.700%		
17) Surrogate Recovery (TPH)	11.71	244	1151	1.08925	ppb	0.00
Spiked Amount 2.000			Recovery =	54.450%		

Target Compounds

Qvalue

Quantitation Report

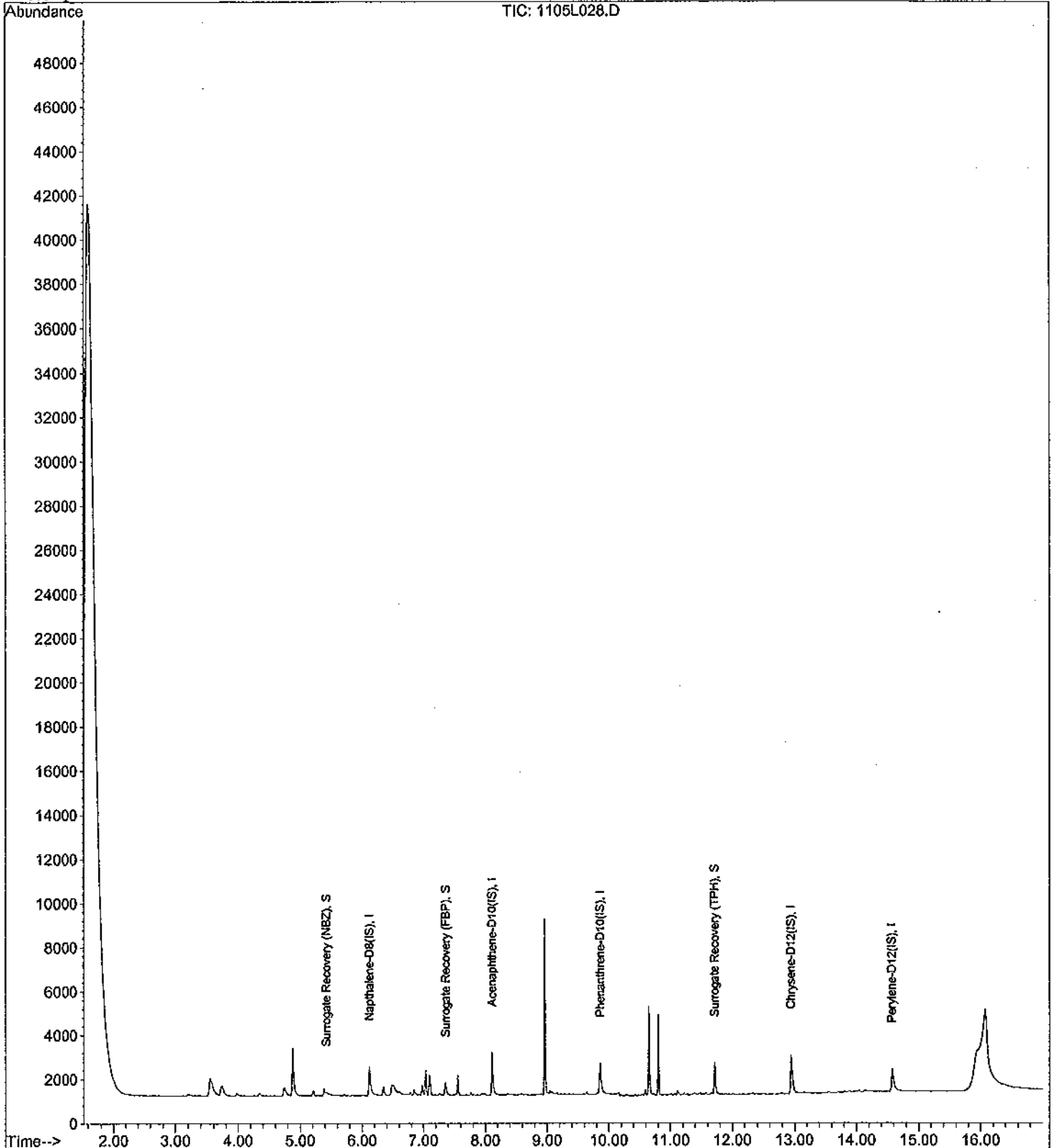
Data File : M:\LINUS\DATA\L111027\1105L028.D
Acq On : 5 Nov 11 20:15
Sample : 111031A BLK 1/1000
Misc :

Vial: 28
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 9 8:48 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 08 16:22:04 2011
Response via : Initial Calibration



Laboratory Control Spike Recovery
EPA 8270D SIM

APPL ID: 111031W-49334 LCS - 161019
Batch ID: #SIMHC-111031A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1-METHYLNAPHTHALENE	4.00	2.25	56.3	45-105
2-METHYLNAPHTHALENE	4.00	2.26	56.5	45-105
ACENAPHTHENE	4.00	2.55	63.7	45-110
ACENAPHTHYLENE	4.00	2.39	59.8	50-105
ANTHRACENE	4.00	2.47	61.8	55-110
BENZO(A)ANTHRACENE	4.00	2.74	68.5	55-110
BENZO(A)PYRENE	4.00	2.48	62.0	55-110
BENZO(B)FLUORANTHENE	4.00	2.43	60.8	45-120
BENZO(GHI)PERYLENE	4.00	2.80	70.0	40-125
BENZO(K)FLUORANTHENE	4.00	3.23	80.8	45-125
CHRYSENE	4.00	2.86	71.5	55-110
DIBENZ(A,H)ANTHRACENE	4.00	2.89	72.3	40-125
FLUORANTHENE	4.00	2.86	71.5	55-115
FLUORENE	4.00	2.59	64.8	50-110
INDENO(1,2,3-CD)PYRENE	4.00	2.95	73.8	45-125
NAPHTHALENE	4.00	2.30	57.5	40-100
PHENANTHRENE	4.00	2.43	60.8	50-115
PYRENE	4.00	2.57	64.3	50-130

SURROGATE: 2-FLUORBIPHENYL (S)	2.00	1.11	55.5	50-110
SURROGATE: NITROBENZENE-D5 (S)	2.00	1.14	57.0	40-110
SURROGATE: TERPHENYL-D14 (S)	2.00	1.06	53.0	50-135

Comments:

Primary	SPK
Quant Method :	SIM2.M
Extraction Date :	10/31/11
Analysis Date :	11/05/11
Instrument :	Linus
Run :	1105L029
Initials :	LF

Printed: 11/09/11 3:59:21 PM

APPL Standard LCS

Data File : M:\LINUS\DATA\L111027\1105L029.D Vial: 29
 Acq On : 5 Nov 11 20:41 Operator: LF
 Sample : 111031A LCS-1 1/1000 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 9 8:50 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Nov 02 15:56:51 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	6.12	136	2079	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	8.11	164	961	2.50000	ppb	0.00
11) Phenanthrene-D10 (IS)	9.85	188	1713	2.50000	ppb	0.00
15) Chrysene-D12 (IS)	12.93	240	2367	2.50000	ppb	0.00
21) Perylene-D12 (IS)	14.56	264	2017	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.43	82	426	1.14411	ppb	-0.01
Spiked Amount	2.000		Recovery	=	57.200%	
7) Surrogate Recovery (FBP)	7.36	172	951	1.11008	ppb	0.01
Spiked Amount	2.000		Recovery	=	55.500%	
17) Surrogate Recovery (TPH)	11.71	244	1078	1.05766	ppb	0.00
Spiked Amount	2.000		Recovery	=	52.900%	
Target Compounds						
3) Naphthalene	6.14	128	3335	2.30246	ppb	99
4) 2-Methylnaphthalene	6.93	142	1681	2.26331	ppb	89
5) 1-Methylnaphthalene	7.04	142	1929	2.25003	ppb	88
8) Acenaphthylene	7.95	152	3060	2.39290	ppb	99
9) Acenaphthene	8.15	154	1866	2.54960	ppb	93
10) Fluorene	8.76	166	2077	2.59363	ppb	97
12) Phenanthrene	9.87	178	2685	2.43497	ppb	98
13) Anthracene	9.94	178	2766	2.47049	ppb	99
14) Fluoranthene	11.26	202	5473	2.86107	ppb	94
16) Pyrene	11.51	202	5362	2.57400	ppb	# 87
18) Benz (a) anthracene	12.93	228	3766	2.74459	ppb	98
19) Chrysene	12.96	228	5250	2.86024	ppb	99
20) Indeno (1,2,3-cd) pyrene	16.09	276	4203	2.95460	ppb	# 95
22) Benzo (b) fluoranthene	14.12	252	3457	2.43287	ppb	# 91
23) Benzo (k) fluoranthene	14.15	252	4746	3.22732	ppb	95
24) Benzo (a) pyrene	14.50	252	3444	2.47758	ppb	98
25) Dibenz (a,h) anthracene	16.09	278	3371	2.88809	ppb	95
26) Benzo (g,h,i) perylene	16.53	276	3449	2.80253	ppb	98

$\frac{3335 \times 2.5}{2079 \times 1.742} = 2.30$
 WF 10/11/11

Quantitation Report

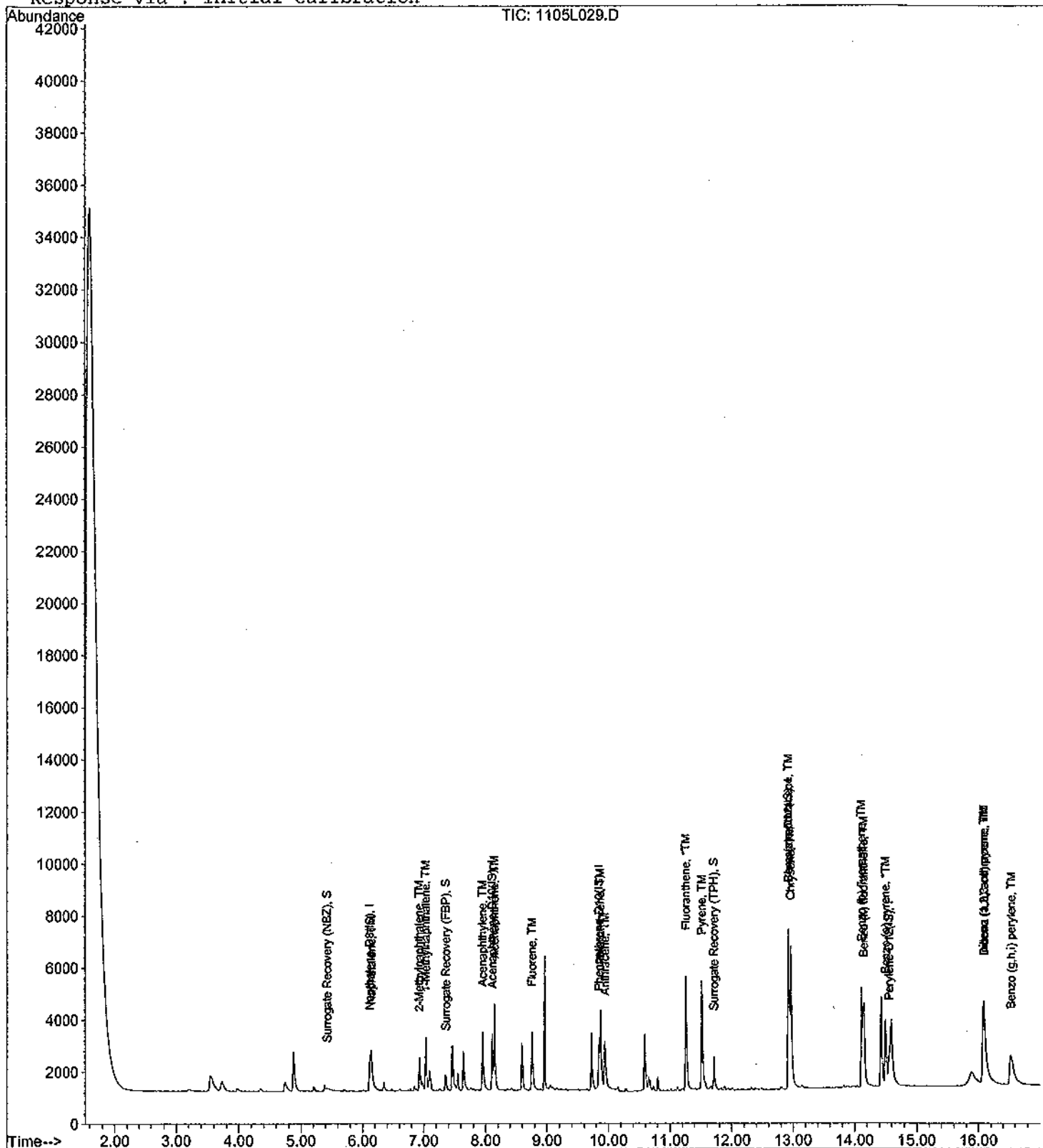
Data File : M:\LINUS\DATA\L111027\1105L029.D
 Acq On : 5 Nov 11 20:41
 Sample : 111031A LCS-1 1/1000
 Misc :

Vial: 29
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Nov 9 8:50 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Nov 08 16:22:04 2011
 Response via : Initial Calibration



Matrix Spike Recoveries

EPA 8270D SIM

APPL ID: 111031W-49334 MS - 161019
 Batch ID: #SIMHC-111031A
 Sample ID: AY49334
 Client ID: ES047

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1-METHYLNAPHTHALENE	3.88	0.62	2.88	2.71	58.2	53.9	45-105	6.1	25
2-METHYLNAPHTHALENE	3.88	0.20	2.26	1.98	53.1	45.9	45-105	13.2	25
ACENAPHTHENE	3.88	0.16	2.17	1.79	51.8	42.0 #	45-110	19.2	25
ACENAPHTHYLENE	3.88	ND	2.14	1.77	55.2	45.6 #	50-105	18.9	25
ANTHRACENE	3.88	ND	2.14	1.96	55.2	50.5 #	55-110	8.8	25
BENZO(A)ANTHRACENE	3.88	ND	3.04	2.84	78.4	73.2	55-110	6.8	25
BENZO(A)PYRENE	3.88	ND	2.62	2.30	67.5	59.3	55-110	13.0	25
BENZO(B)FLUORANTHENE	3.88	ND	2.72	2.34	70.1	60.3	45-120	15.0	25
BENZO(GHI)PERYLENE	3.88	ND	2.84	2.54	73.2	65.5	40-125	11.2	25
BENZO(K)FLUORANTHENE	3.88	ND	3.07	2.84	79.1	73.2	45-125	7.8	25
CHRYSENE	3.88	ND	2.75	2.56	70.9	66.0	55-110	7.2	25
DIBENZ(A,H)ANTHRACENE	3.88	ND	2.90	2.51	74.7	64.7	40-125	14.4	25
FLUORANTHENE	3.88	ND	2.84	2.59	73.2	66.8	55-115	9.2	25
FLUORENE	3.88	0.083	2.42	2.08	60.2	51.5	50-110	15.1	25
INDENO(1,2,3-CD)PYRENE	3.88	ND	2.93	2.71	75.5	69.8	45-125	7.8	25
NAPHTHALENE	3.88	1.0	3.70	2.56	69.6	40.2	40-100	36.4 #	25
PHENANTHRENE	3.88	ND	2.38	2.20	61.3	56.7	50-115	7.9	25
PYRENE	3.88	ND	2.63	2.45	67.8	63.1	50-130	7.1	25

SURROGATE: 2-FLUORBIPHENYL (S)	1.94	NA	1.04	1.08	53.6	55.7	50-110		
SURROGATE: NITROBENZENE-D5 (S)	1.94	NA	1.15	1.03	59.3	53.1	40-110		
SURROGATE: TERPHENYL-D14 (S)	1.94	NA	0.984	1.20	50.7	61.9	50-135		

= Recovery is outside QC limits.

Comments:

Primary	SPK	DUP
Quant Method :	SIM2.M	SIM2.M
Extraction Date :	10/31/11	10/31/11
Analysis Date :	11/05/11	11/06/11
Instrument :	Linus	Linus
Run :	1105L036	1105L037
Initials :	LF	

Printed: 11/09/11 4:01:35 PM
 APPL MSD SCII

Data File : M:\LINUS\DATA\L111027\1105L036.D
 Acq On : 5 Nov 11 23:36
 Sample : AY49334W30 MS-1 1/1030
 Misc :

Vial: 36
 Operator: LF
 Inst : Linus
 Multiplr: 0.97

Quant Time: Nov 9 9:18 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Nov 02 15:56:51 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	6.11	136	2236	2.50000	ppb	-0.01
6) Acenaphthene-D10 (IS)	8.11	164	1033	2.50000	ppb	0.00
11) Phenanthrene-D10 (IS)	9.84	188	1791	2.50000	ppb	-0.01
15) Chrysene-D12 (IS)	12.93	240	2429	2.50000	ppb	0.00
21) Perylene-D12 (IS)	14.56	264	2046	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.41	82	474	1.14916	ppb	-0.04
Spiked Amount	1.942		Recovery	=	59.174%	
7) Surrogate Recovery (FBP)	7.35	172	984	1.03741	ppb	0.00
Spiked Amount	1.942		Recovery	=	53.406%	
17) Surrogate Recovery (TPH)	11.70	244	1060	0.98394	ppb	-0.01
Spiked Amount	1.942		Recovery	=	50.676%	
Target Compounds						
3) Naphthalene	6.13	128	5940	3.70192	ppb	# 90
4) 2-Methylnaphthalene	6.92	142	1859	2.25943	ppb	91
5) 1-Methylnaphthalene	7.02	142	2737	2.88187	ppb	92
8) Acenaphthylene	7.94	152	3027	2.13796	ppb	95
9) Acenaphthene	8.15	154	1758	2.16952	ppb	99
10) Fluorene	8.75	166	2145	2.41926	ppb	98
12) Phenanthrene	9.86	178	2830	2.38319	ppb	96
13) Anthracene	9.93	178	2585	2.14395	ppb	99
14) Fluoranthene	11.25	202	5849	2.83927	ppb	# 80
16) Pyrene	11.51	202	5786	2.62780	ppb	95
18) Benz (a) anthracene	12.91	228	4407	3.03859	ppb	97
19) Chrysene	12.96	228	5335	2.74985	ppb	98
20) Indeno (1,2,3-cd) pyrene	16.08	276	4399	2.92567	ppb	# 93
22) Benzo (b) fluoranthene	14.12	252	4037	2.71919	ppb	# 91
23) Benzo (k) fluoranthene	14.14	252	4718	3.07067	ppb	96
24) Benzo (a) pyrene	14.50	252	3802	2.61781	ppb	97
25) Dibenz (a,h) anthracene	16.08	278	3537	2.90034	ppb	98
26) Benzo (g,h,i) perylene	16.53	276	3653	2.84098	ppb	99

Quantitation Report

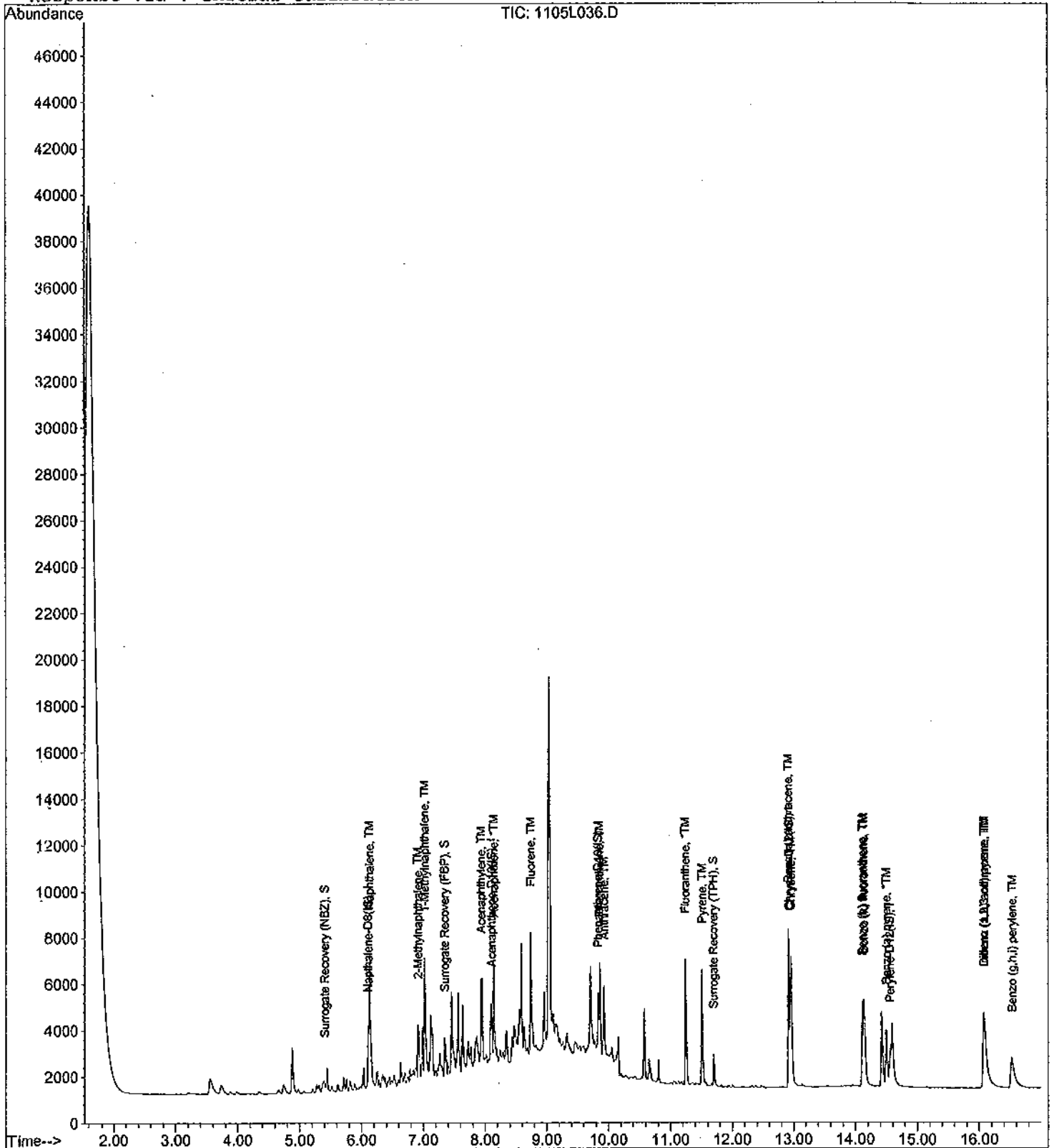
Data File : M:\LINUS\DATA\L111027\1105L036.D
Acq On : 5 Nov 11 23:36
Sample : AY49334W30 MS-1 1/1030
Misc :

Vial: 36
Operator: LF
Inst : Linus
Multiplr: 0.97

Quant Time: Nov 9 9:18 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 08 16:22:04 2011
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L111027\1105L037.D Vial: 37
 Acq On : 6 Nov 11 00:01 Operator: LF
 Sample : AY49334W34 MSD-1 1/1030 Inst : Linus
 Misc : Multiplr: 0.97

Quant Time: Nov 9 9:19 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Nov 02 15:56:51 2011
 Response via : Initial Calibration
 DataAcq Meth : 87S1MAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	6.11	136	2287	2.50000	ppb	-0.01
6) Acenaphthene-D10 (IS)	8.11	164	1131	2.50000	ppb	0.00
11) Phenanthrene-D10 (IS)	9.83	188	1879	2.50000	ppb	-0.01
15) Chrysene-D12 (IS)	12.93	240	2428	2.50000	ppb	0.00
21) Perylene-D12 (IS)	14.56	264	2160	2.50000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	5.41	82	433	1.02635	ppb	-0.04
Spiked Amount	1.942					
Recovery				=	52.839%	
7) Surrogate Recovery (FBP)	7.35	172	1118	1.07656	ppb	0.00
Spiked Amount	1.942					
Recovery				=	55.466%	
17) Surrogate Recovery (TPH)	11.70	244	1293	1.20071	ppb	-0.01
Spiked Amount	1.942					
Recovery				=	61.852%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	6.13	128	4199	2.55854	ppb	# 85
4) 2-Methylnaphthalene	6.92	142	1664	1.97733	ppb	92
5) 1-Methylnaphthalene	7.02	142	2628	2.70539	ppb	91
8) Acenaphthylene	7.94	152	2746	1.77144	ppb	94
9) Acenaphthene	8.15	154	1590	1.79217	ppb	99
10) Fluorene	8.75	166	2022	2.08293	ppb	98
12) Phenanthrene	9.86	178	2744	2.20254	ppb	96
13) Anthracene	9.93	178	2473	1.95500	ppb	99
14) Fluoranthene	11.25	202	5590	2.58646	ppb	# 83
16) Pyrene	11.51	202	5394	2.45077	ppb	94
18) Benz (a) anthracene	12.91	228	4123	2.84394	ppb	98
19) Chrysene	12.96	228	4973	2.56432	ppb	99
20) Indeno (1,2,3-cd) pyrene	16.08	276	4079	2.71396	ppb	# 90
22) Benzo (b) fluoranthene	14.12	252	3669	2.34088	ppb	# 90
23) Benzo (k) fluoranthene	14.14	252	4610	2.84203	ppb	96
24) Benzo (a) pyrene	14.50	252	3531	2.30290	ppb	98
25) Dibenz (a,h) anthracene	16.08	278	3235	2.51269	ppb	99
26) Benzo (g,h,i) perylene	16.53	276	3447	2.53929	ppb	97

Quantitation Report

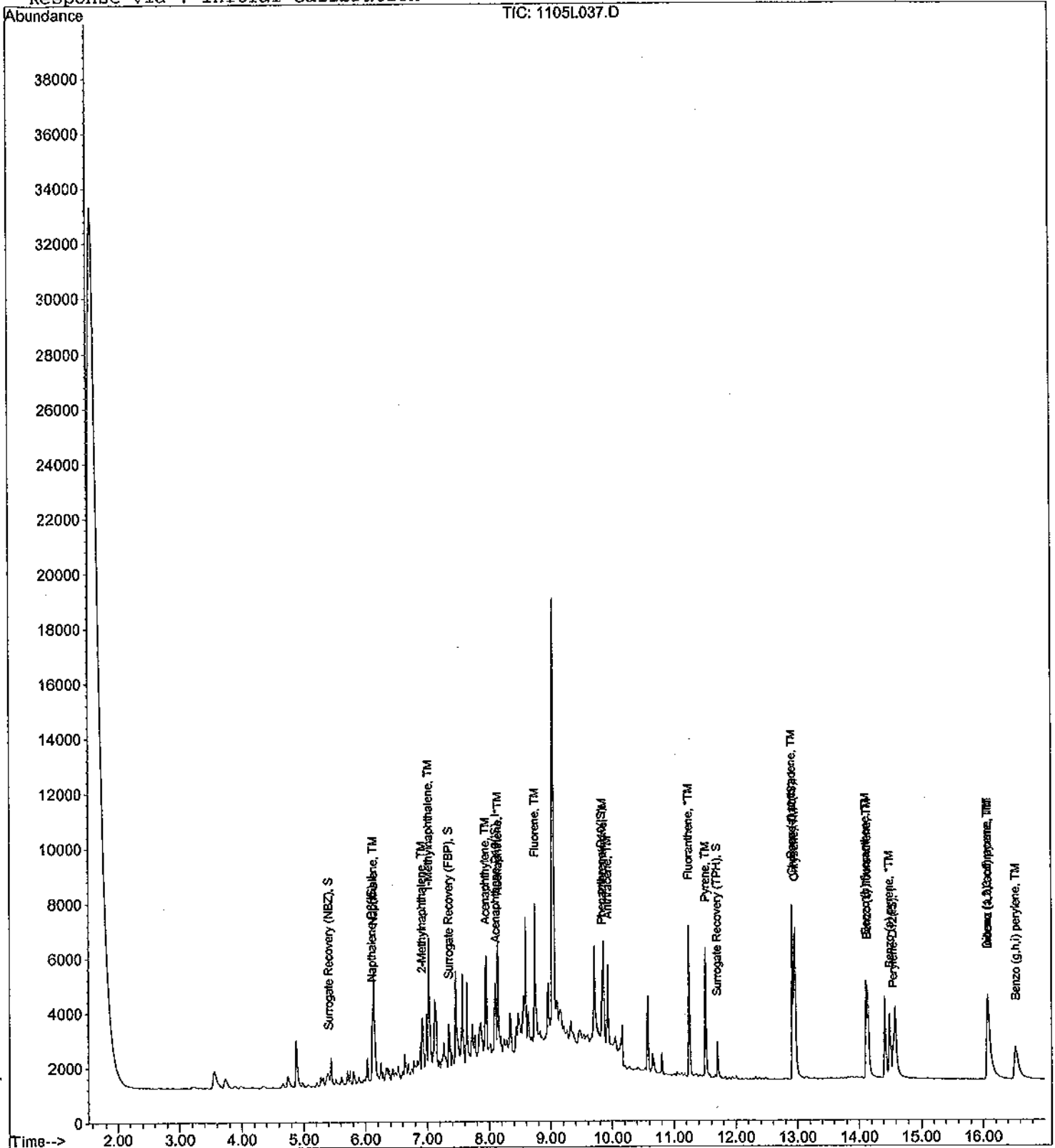
Data File : M:\LINUS\DATA\L111027\1105L037.D
 Acq On : 6 Nov 11 00:01
 Sample : AY49334W34 MSD-1 1/1030
 Misc :

Vial: 37
 Operator: LF
 Inst : Linus
 Multiplr: 0.97

Quant Time: Nov 9 9:19 2011

Quant Results File: SIM2.RES

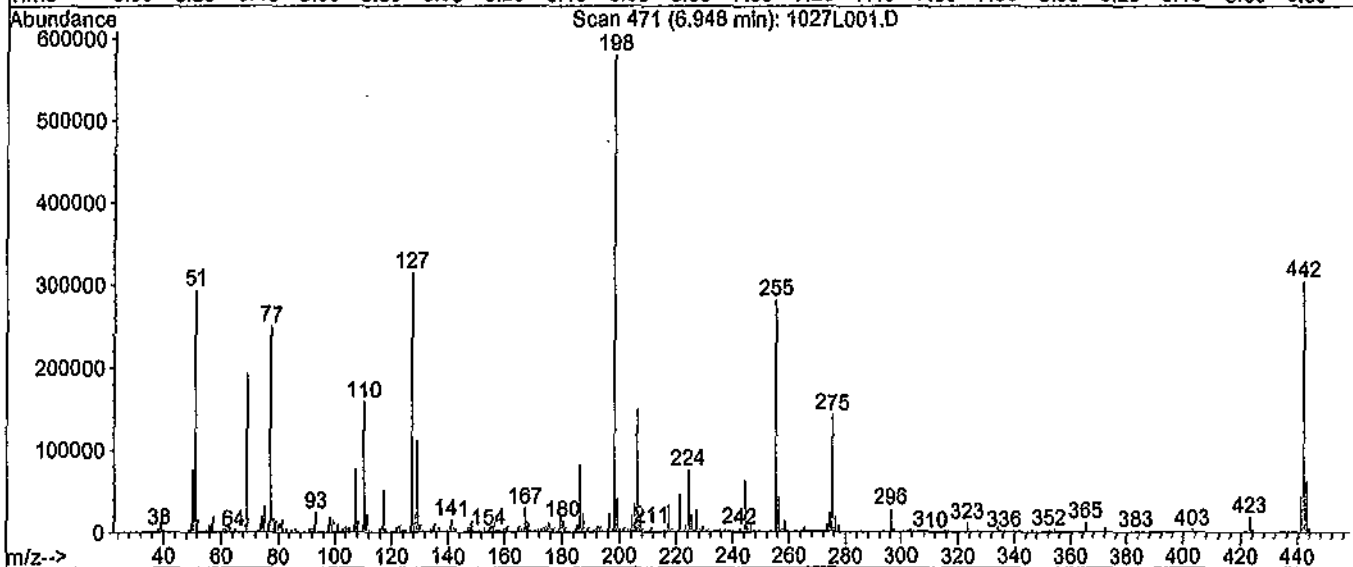
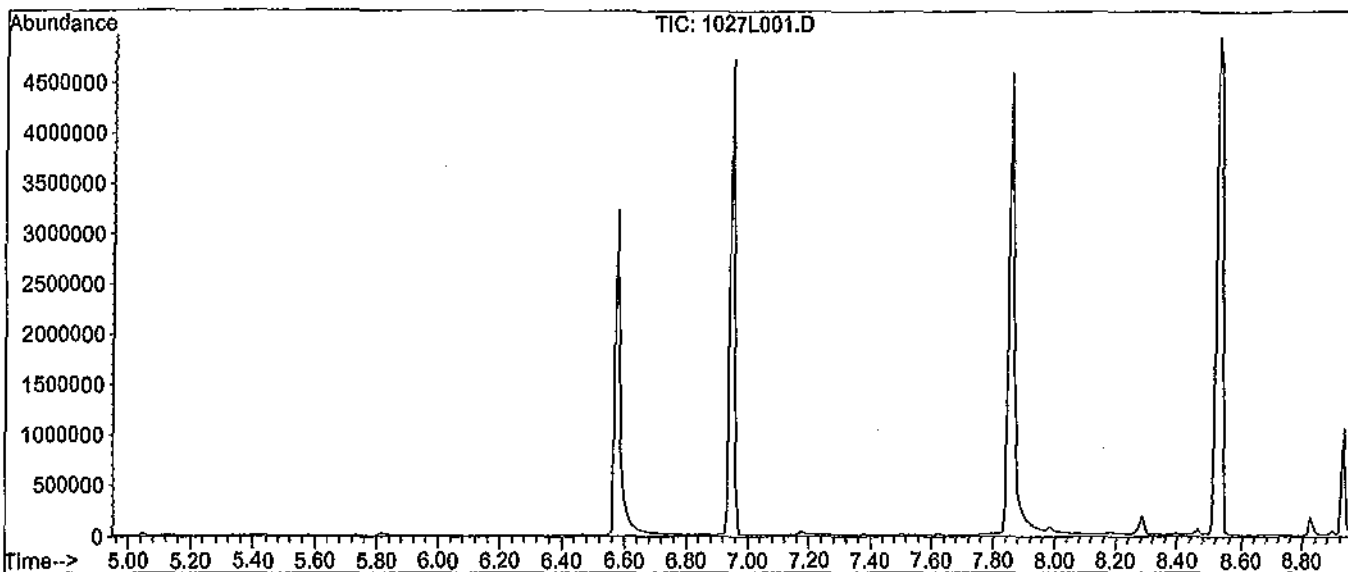
Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Nov 08 16:22:04 2011
 Response via : Initial Calibration



Data File : M:\LINUS\DATA\L111027\1027L001.D
 Acq On : 27 Oct 11 18:29
 Sample : SVTUNE 10-27-11
 Misc :

Vial: 1
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C



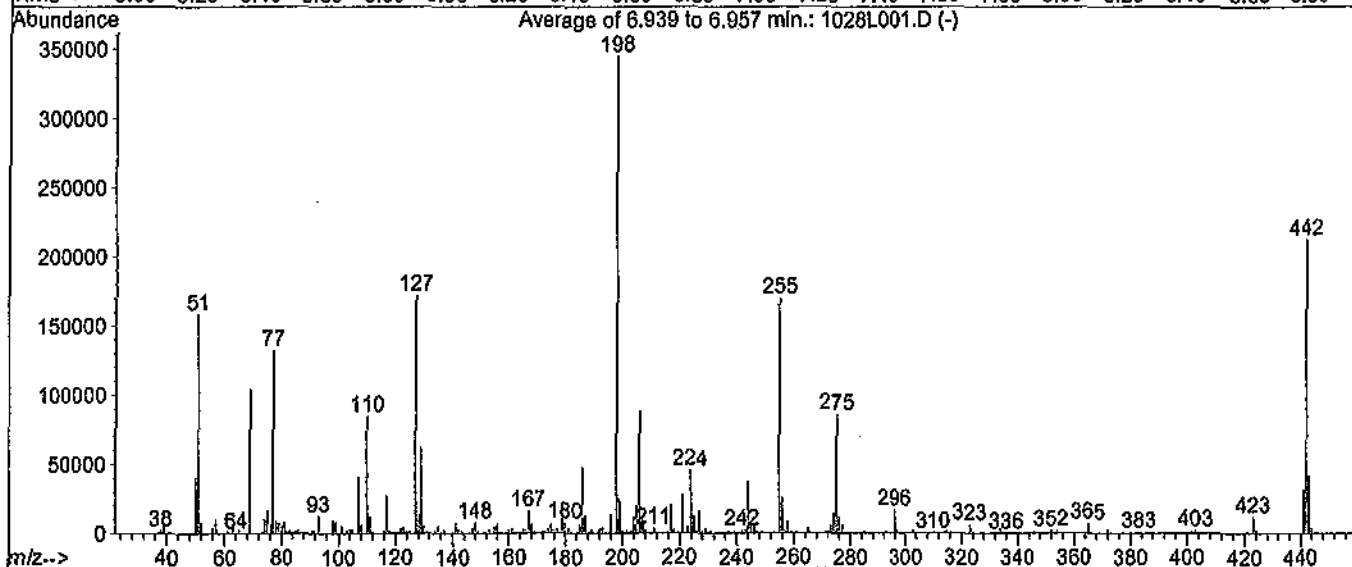
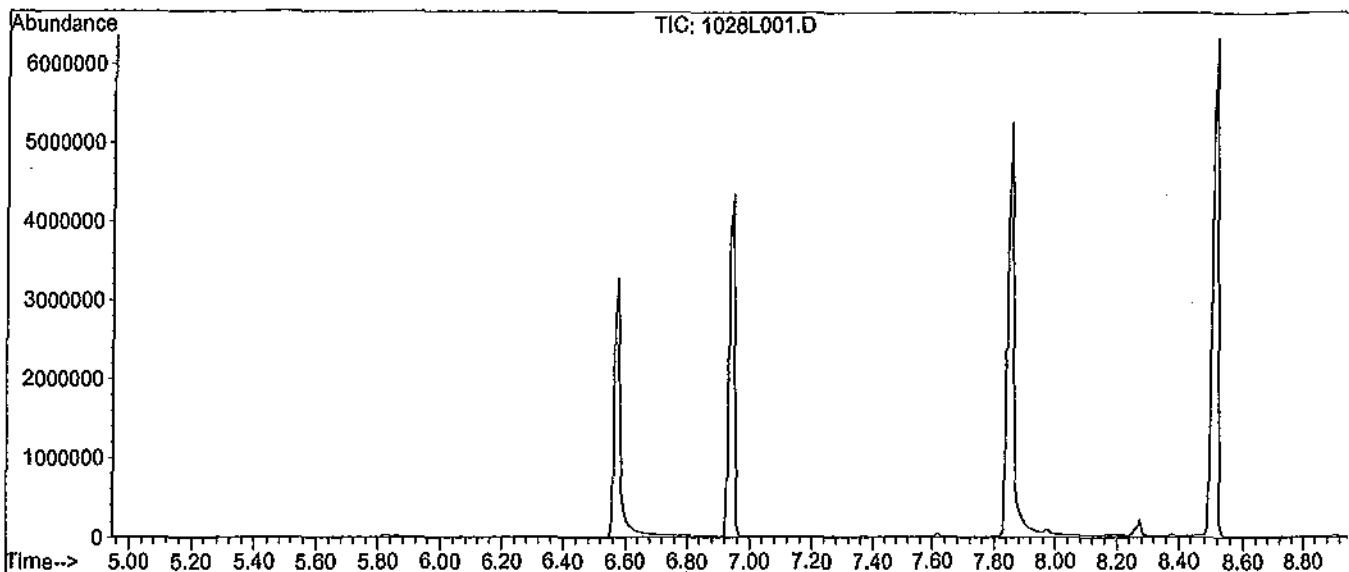
Spectrum Information: Scan 471

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	50.7	294016	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	1188	PASS
127	198	40	60	54.3	314624	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	579520	PASS
199	198	5	9	7.0	40304	PASS
275	198	10	30	24.5	141888	PASS
365	198	1	100	2.0	11470	PASS
441	443	0.01	100	70.8	44728	PASS
442	198	40	150	52.6	304768	PASS
443	442	17	23	20.7	63176	PASS

Data File : M:\LINUS\DATA\L111027\1028L001.D
 Acq On : 28 Oct 11 9:32
 Sample : SVTUNE 10-27-11
 Misc :

Vial: 1
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C



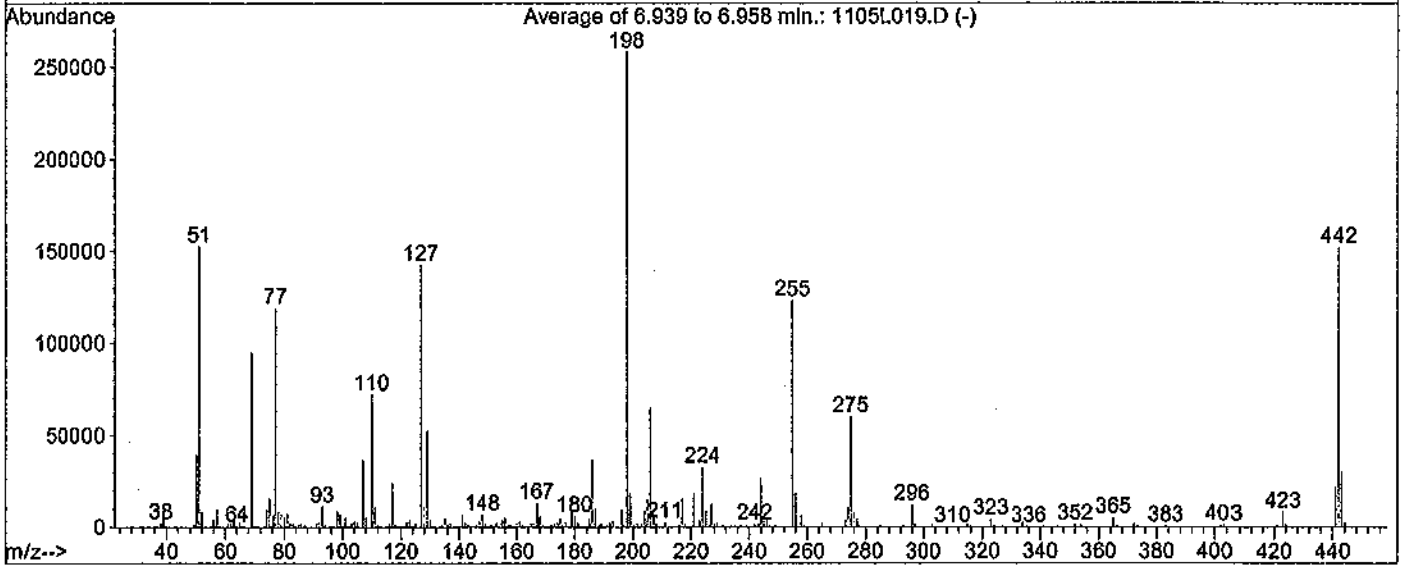
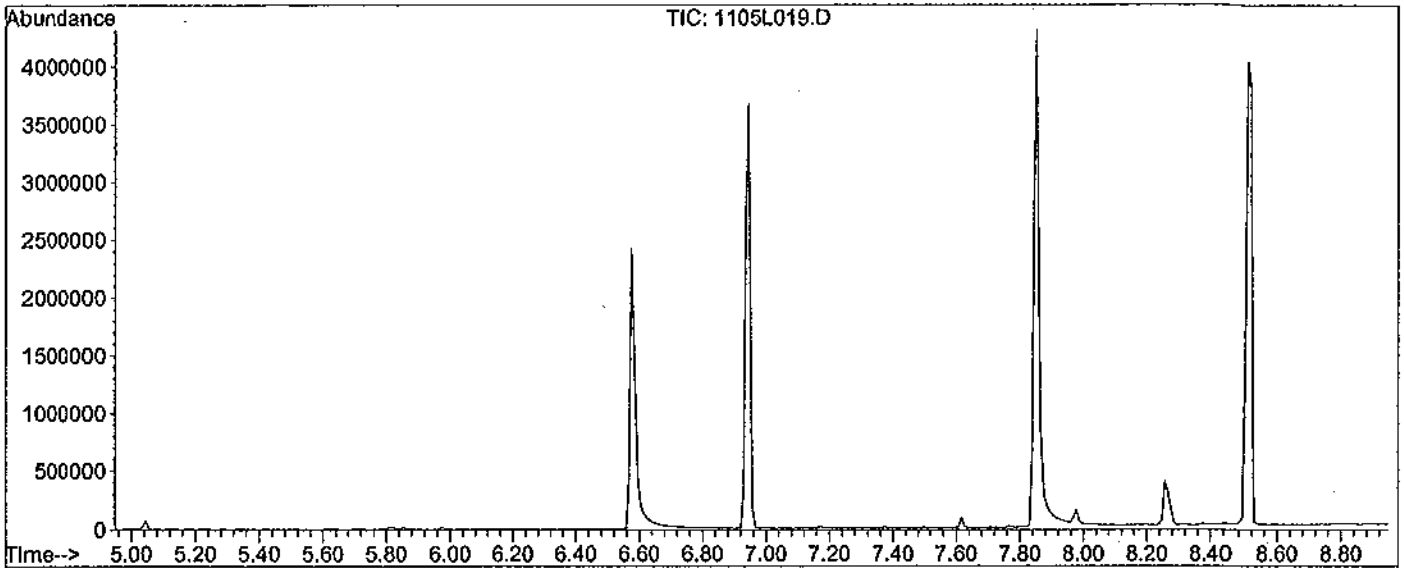
Spectrum Information: Average of 6.939 to 6.957 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.8	158326	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	519	PASS
127	198	40	60	49.8	171922	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	345360	PASS
199	198	5	9	7.1	24580	PASS
275	198	10	30	24.8	85541	PASS
365	198	1	100	2.0	6987	PASS
441	443	0.01	100	74.7	31248	PASS
442	198	40	150	61.5	212309	PASS
443	442	17	23	19.7	41843	PASS

Data File : M:\LINUS\DATA\L111027\1105L019.D
 Acq On : 5 Nov 11 16:36
 Sample : SVTUNE 10-27-11
 Misc :

Vial: 19
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C



Spectrum Information: Average of 6.939 to 6.958 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	59.0	152381	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	557	PASS
127	198	40	60	55.1	142318	PASS
197	198	0.00	1	0.5	1197	PASS
198	198	100	100	100.0	258253	PASS
199	198	5	9	7.1	18230	PASS
275	198	10	30	23.2	59874	PASS
365	198	1	100	1.9	4901	PASS
441	443	0.01	100	73.0	21870	PASS
442	198	40	150	58.8	151760	PASS
443	442	17	23	19.7	29958	PASS

VF 11/7/11

PREP DATE: 01-17-11		8270C Stock/Spike Standard					
Exp: 05-29-11		Conc.		Date	CODE:	P	
Supplier	ID #	µg/mL	Lot #	Code	Exp. Date	µL	
Absolute	10001	2000	032009-28092	01/17/11	03-20-12	1000	
Absolute	10001	2000	032009-28091	01/17/11	03-20-12	1000	
Absolute	10002	2000	073109-27974	01/17/11	07-31-12	1000	
Absolute	10002	2000	073109-27973	01/17/11	07-31-12	1000	
Absolute	10004	2000	101509-27979	01/17/11	10-15-14	1000	
Absolute	10004	2000	101509-27978	01/17/11	10-15-14	1000	
Absolute	10005	2000	061209-27984	01/17/11	06-12-14	1000	
Absolute	10005	2000	061209-27983	01/17/11	06-12-14	1000	
Absolute	10006	2000	120810-27989	01/17/11	12-08-13	1000	
Absolute	10006	2000	120810-27988	01/17/11	12-08-13	1000	
Absolute	10007	2000	100909-28010	01/17/11	10-09-14	1000	
Absolute	10007	2000	100909-28013	01/17/11	10-09-14	1000	
Absolute	10018	2000	073109-27994	01/17/11	07-31-14	1000	
Absolute	10018	2000	073109-27993	01/17/11	07-31-14	1000	
Absolute	70023	1000	080310-28008	01/17/11	08-03-15	1000	
Absolute	70023	1000	080310-28009	01/17/11	08-03-15	1000	
Absolute	82705	2000	121010-27999	01/17/11	12-10-13	1000	
Absolute	82705	2000	121010-27998	01/17/11	12-10-13	1000	
Absolute	94552	2000	052908-28004	01/17/11	05-29-11	1000	
Absolute	94552	2000	052908-28003	01/17/11	05-29-11	1000	
Final Vol						20000	

VF 4/25/11

PREP DATE: 01-25-11		8270T STANDARD CURVE															
Exp: 02-24-11		Conc.	Date			0.1	0.2	1	5	10	20	40	50	60	80	100	
Supplier	ID #	µg/mL	Lot #	Code	Exp. Date	µL	µL	µL	µL	µL	µL	µL	µL	µL	µL	µL	µL
8270T Stock	200		12/17/10	05-29-11		0	0	0	5	5	10	20	25	30	40	50	
5.0ug/mL			01/25/11			0	0	20	0	0	0	0	0	0	0	0	
1.0ug/mL			01/25/11			10	20	0	0	0	0	0	0	0	0	0	
Surrogate Stock	VAR	160518-27570	11/11/10	11-11-11		0	0	0	5	5	10	20	25	30	40	50	
EM Science	Methylene Chloride	47080				90	80	80	190	90	80	60	50	40	20	0	
Final Vol.						100	200	100	100	100	100	100	100	100	100	100	

VF 1/25/11

PREP DATE: 01-25-11		8270 Second Source (82) 50ug/mL					
Exp:		Conc.	Date	CODE:			50
Supplier	ID #	µg/mL	Lot #	Code	Exp. Date	µL	
8270C SS	200		10/06/10	10-06-11		25	
EM Science	Methylene Chloride	47080				75	
Final Vol.						100	

VF 1/20/11

Method 8270 Internal Standard Solution, 2,000 mg/L, 1 ml
 110001-41
 Lot # 167766 Storage 5-10 Degree C Expiry 4/20/13
 Solv: Methylene Chloride
 8270 Internal Standard
 Lot #: 167766 - 28148
 Rec: 1/20/11 MFR exp. 04/20/13


app 1/25/12

VF 1/25/11

Method 8270 Internal Standard Solution, 2,000 mg/L, 1 ml
 110001-41
 Lot # 167766 Storage 5-10 Degree C Expiry 4/20/13
 Solv: Methylene Chloride
 8270 Internal Standard
 Lot #: 167766 - 28147
 Rec: 1/20/11 MFR exp. 04/20/13


app 1/25/12

1/3/23/11

Part #: 94552 Laboratory Use Only-See MSDS
 Lot #: 052908 Exp: 052911 1 mL
 Semi-Volatile Standard
 11 components
 Varied ug/mL in
ABSOLUTE STANDARDS
 Lot #: 052908 - 28001
 Rec: 12/16/10 MFR exp. 05/29/11


exp 5/29/11

1/3/23/11

Part #: 94552 Laboratory Use Only-See MSDS
 Lot #: 052908 Exp: 052911 1 mL
 Semi-Volatile Standard
 11 components
 Varied ug/mL in
ABSOLUTE STANDARDS
 Lot #: 052908 - 28002
 Rec: 12/16/10 MFR exp. 05/29/11


exp 5/29/11

1/3/23/11

Part #: 82705 Laboratory Use Only - See MSDS
 Lot #: 121010 Exp: 121013 Storage 4 °C
 EPA Method 8270A EPA Method 8270A-Mix#11
 4 components
 2000 ug/mL in ace
ABSOLUTE STANDARDS, INC.
 Lot #: 121010 - 27996
 Rec: 12/16/10 MFR exp. 12/10/13

exp 5/29/11

1/3/23/11

Part #: 82705 Laboratory Use Only - See MSDS
 Lot #: 121010 Exp: 121013 Storage 4 °C
 EPA Method 8270A - Mix #11
 4 components / EPA Method 8270A-Mix#11
 2000 ug/mL in ace
ABSOLUTE STANDARDS
 Lot #: 121010 - 27997
 Rec: 12/16/10 MFR exp. 12/10/13

exp 5/29/11

1/3/23/11

PREP DATE:	03-23-11					
8270C Stock/spike Standard						
Exp:	05-29-11					
		Conc.	Lot #	Date	CODE:	P
Supplier	ID #	ug/mL	Lot #	Code	Exp. Date	uL
Absolute	10001	2000	032009-28089	03/23/11	03-20-12	1000
Absolute	10001	2000	320009-28090	03/23/11	03-20-12	1000
Absolute	10002	2000	073109-27971	03/23/11	07-31-12	1000
Absolute	10002	2000	073109-27972	03/23/11	07-31-12	1000
Absolute	10004	2000	101509-27976	03/23/11	10-15-14	1000
Absolute	10004	2000	101509-27977	03/23/11	10-15-14	1000
Absolute	10005	2000	061209-27981	03/23/11	06-12-14	1000
Absolute	10005	2000	061209-27982	03/23/11	06-12-14	1000
Absolute	10006	2000	120810-27986	03/23/11	12-08-13	1000
Absolute	10006	2000	120810-27987	03/23/11	12-08-13	1000
Absolute	10007	2000	100909-28015	03/23/11	10-09-14	1000
Absolute	10007	2000	100909-28014	03/23/11	10-09-14	1000
Absolute	10018	2000	073109-27991	03/23/11	07-31-14	1000
Absolute	10018	2000	073109-27992	03/23/11	07-31-14	1000
Absolute	70023	1000	080310-28006	03/23/11	08-03-15	1000
Absolute	70023	1000	080310-28007	03/23/11	08-03-15	1000
Absolute	82705	2000	052908-28001	03/23/11	05-29-11	1000
Absolute	82705	2000	052908-28002	03/23/11	05-29-11	1000
Absolute	94552	2000	121010-27996	03/23/11	12-10-13	1000
Absolute	94552	2000	121010-27997	03/23/11	12-10-13	1000
					Final Vol	20000

1/3/23/11

91M IS exp 1/25/12
 1500uL EA Science MC Lot # 4708825
 100uL 8270 IS opened 1/25/11 exp 1/25/12

GC/MS STANDARD PREPARATION BOOK # 5 PAGE # 90

WF 3/28/11
WF 3/28/11

o2si 8270 BNA (200:400) Surrogate Solution, 1 ml
 110004-17 Storage: <-10 Degrees C
 Made in USA Lot No: 160538 Solvent: Methylene Chloride
 Rec: 4/18/11
 Date Opened: 8270 BNA (200:400) Surrogate Solution
 Lot #: 160538 - 27574
 Rec: 10/18/10 MFR exp. 08/10/12

WF 3/28/12

PREP DATE: 03-28-11

8270 STANDARD CURVE

Exp:	04-27-11					0.1	0.2	1	5	10	20	40	50	60	80	100	
Supplier	ID #	Conc.	Lot #	Date	Code	Exp. Date											
	8270T Stock	200		03/23/11		05-29-11	0	0	0	5	5	10	20	25	30	40	50
	5.0ug/ml			03/28/11			0	0	20	0	0	0	0	0	0	0	0
	1.0ug/ml			03/28/11			10	20	0	0	0	0	0	0	0	0	0
	Surrogate Stock	VAR	160538-27574	03/28/11		03-28-12	0	0	0	5	5	10	20	25	30	40	50
EM Science	Methylene chloride		47080				90	80	80	190	90	80	60	50	40	20	0
					Final Vol.				100	200	100	100	100	100	100	100	100

WF 3/28/11
WF 4/18/11

PREP DATE: 03-28-11

8270 Second Source (88) 50ug/ml

Supplier	ID #	Conc.	Lot #	Date	Code	Exp. Date	µL
	8270C SS	200		10/06/10		10-06-11	25
EM Science	Methylene Chloride		47080				75
					Final Vol.		100

GCM-160-1
 Lot: CF-2995
 Exp: 08/31/2011
 Semi-Volatiles GC/MS Tuning Standard
 Standard
 4 analyte(s) at 1000 µg/mL in dichloromethane
 250 Smith St, W Kingstown, RI 02882 USA

ULTRA
1 ml

WF 4/31/11

WF 4/13/11

PREP DATE: 04-23-11

SV Tune Mix 50ug/ml

Supplier	ID #	Conc.	Lot #	Date	Code	Exp. Date	µL
U. Scientific	GCM-150	1000	CF-2995-26131	04/13/11		08-31-11	1000
EM Science	MeCl2		47080				19000
					Final Vol		20000

WF 8/31/11

WF 4/20/11
WF 4/20/11

8270D PAH SIM Solution,
 200 mg/L, 1 ml
 110780-01
 Lot # Storage Expiry
 170253 -5-10 Degree C 3/3/13
 Solv: Methylene Chloride

8270D PAH SIM
 Lot #: 170253 - 28485
 Rec: 3/10/11 MFR exp. 3/3/2013

WF 4/20/12

8270D PAH SIM Solution,
 Second Source, 200 mg/L, 1 ml
 110780-01-SS
 Lot # Storage Expiry
 170256 -5-10 Degree C 3/3/13
 Solv: Methylene Chloride

8270D PAH SIM (SS)
 Lot #: 170256 - 28487
 Rec: 3/10/11 MFR exp. 3/3/2013

WF 4/20/12

1/8/11/11

PREP DATE:	08/16/11	exp:	08/23/11
10ug/mL 1,2,3-TCP			
50uL of 1000ug/mL 1,2,3 TCP into a final volume of 5mL of P&T Methanol			
1000ug/mL 1,2,3 TCP date code:		05/27/11	
P & T Methanol Lot #		9077-02	
PREP DATE:	08/16/11	exp:	08/23/11
1ug/mL 1,2,3-TCP			
5uL of 1000ug/mL 1,2,3 TCP into a final volume of 5mL of P&T Methanol			
1000ug/mL 1,2,3 TCP date code:		05/27/11	
P & T Methanol Lot #		JT Baker H46E44	
PREP DATE:	08/16/11	exp:	08/23/11
2ug/mL 1,2,3-TCPd5			
10uL of 2000ug/mL 1,2,3 TCP into a final volume of 10mL of P&T Methanol			
2000ug/mL 1,2,3 TCP-d5 date code:		05/27/11	
P & T Methanol Lot #		9077-02	

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1/8/11/11

8270 BNA (200:400)
Surrogate Solution, 1 ml
11804-17
Lot # 167802 Storage Expiry
5-10 Degrees C 12/13
Sol: Methylene Chloride
8270 BNA (200:400) Surrogate Solution
Lot #: 167802-29313
Rec: 8/8/11 MFR exp: 01/09/13

1/8

exp 8/23/12

1/8/11/11

PREP DATE:	08-22-11													
8270 STANDARD CURVE														
Exp:	08-29-11													
		Conc.		Date		5	10	20	40	50	60	80	100	
Supplier	ID #	ug/mL	Lot #	Code	Exp.Date	µL	µL	µL	µL	µL	µL	µL	µL	µL
	8270T Stock	200		07/26/11	01-26-12	5	5	10	20	25	30	40	50	
	Surrogate Stock	VAR	167802-29313	08/22/11	08-22-12	5	5	10	20	25	30	40	50	
EM Science	Methylene Chloride		47186			190	90	80	60	50	40	20	0	
					Final Vol.	200	100	100	100	100	100	100	100	

1/8

1/8/11/11

PREP DATE:	08-22-11													
8270 Second Source (80) 50ug/mL														
		Conc.		Date										
Supplier	ID #	ug/mL	Lot #	Code	Exp.Date	µL								
	8270C SS	200		10/06/10	10-06-11	25								
EM Science	Methylene Chloride		47186			75								
					Final Vol.	100								

1/8

1/8/11/11

PREP DATE:	09-21-11													
8270 SIM STANDARD CURVE														
		Conc.		Date		0.10	0.20	0.50	1.00	5.00	10.00	50.00	100.00	
Supplier	ID #	ug/mL	Lot #	Code	Exp.Date	µL	µL	µL	µL	µL	µL	µL	µL	µL
	8270D PAH SIM	200	170253-28485	04/20/11	04-20-12	0	0	0	0	5	5	25	50	
	5.0ug/mL	5		09/21/11		0	0	10	20	0	0	0	0	
	1.0ug/mL	1		09/21/11		10	20	0	0	0	0	0	0	
	Surrogate Stock	VAR	167802-29313	08/22/11	08-23-11	0	0	0	0	5	5	25	50	
EM Science	Methylene Chloride		47186			90	80	90	80	190	90	50	0	
					Final Vol.	100	100	100	100	200	100	100	100	

1/8

10/18/11

Method 8270 Internal
Standard Solution, 2,000
µg/L, 1 ml
110001-02
Lot# 167766 Storage 5-10 Degree C Expiry 4/20/13
Sol: Methylene Chloride
8270 Internal Standard
Lot #: 167766 - 28149
Rec: 1/20/11 MFR exp. 04/20/13

Method 8270 Internal
Standard Solution, 2,000
µg/L, 1 ml
110001-02
Lot# 167766 Storage 5-10 Degree C Expiry 4/20/13
Sol: Methylene Chloride
8270 Internal Standard
Lot #: 167766 - 28150
Rec: 1/20/11 MFR exp. 04/20/13

exp 10/18/12

10/27/11

GCM-160-1
Lot: CH-2137
Exp: 07/31/2013
Semi-Volatiles GC/MS Tuning
Standard
4 analyte(s) at 1000 µg/ml in
dichloromethane
250 Smith St, No Kingstown, RI 02882 USA
For Lab Use Only

exp 10/27/12

50µg/ml SV Tune Mix 1ml of GCM-160-1 lot# CH2137 into
1µml of Gen Science MC lot# 42780.

10/27/11

PREP DATE: 10-27-11														
8270 SIM STANDARD CURVE														
					0.10	0.20	0.50	1.00	5.00	10.00	50.00	100.00		
Supplier	ID #	Conc.	Lot #	Date	CODE:	A	A	C	D	E	F	G	H	
		µg/mL		Code	Exp. Date	µL	µL	µL	µL	µL	µL	µL	µL	
8270D PAH SIM	200	170253-28485	04/20/11	04-20-12	5	0	0	0	0	5	5	25	50	
5.00g/mL	5		10/27/11			0	0	10	20	0	0	0	0	
1.00g/mL	1		10/27/11			10	20	0	0	0	0	0	0	
Surrogate Stock	VAR	167802-29313	08/22/11	08-22-12		0	0	0	0	5	5	25	50	
EM science	Methylene Chloride		47186			90	80	90	80	190	90	50	0	
Final Vol.						100	100	100	100	200	100	100	100	

10/27/11

PREP DATE: 10-27-11														
SIM 8270 Second Source (5µg/mL)														
Exp:	11-10-11													
					Conc.	Date	CODE:							
Supplier	ID #	Lot #	µg/mL	Code	Exp. Date	µL								
8270D PAH SIM (SS)		170256-28487	200	04/20/11	04-20-12	5								
MeCl2													195	
Final Volume						200								

11/8/11

PREP DATE: 11-08-11														
8270 STANDARD CURVE														
Exp:	11-15-11													
					Conc.	Date	CODE:							
Supplier	ID #	Lot #	µg/mL	Code	Exp. Date	µL	µL	µL	µL	µL	µL	µL	µL	µL
8270T Stock	200		10/18/11	04-18-12		5	5	10	20	25	30	40	50	
Surrogate Stock	VAR	167802-29313	08/22/11	08-22-12		5	5	10	20	25	30	40	50	
EM Science	Methylene Chloride	47186				190	90	80	60	50	40	20	0	
Final Vol.						200	100	100	100	100	100	100	100	

11/8/11

PREP DATE: 11-08-11														
8270 Second Source (SS) 50µg/mL														
					Conc.	Date	CODE:							
Supplier	ID #	Lot #	µg/mL	Code	Exp. Date	µL								
8270C SS	200		10/11/11	04-12-12		25								
EM Science	Methylene Chloride	47186				75								
Final Vol.						100								

Organic Extraction Worksheet

Method SIM Separatory Funnel Extra 3510C	Extraction Set 111031A	Extraction Method SEP004S	Units mL
Spiked ID 1 SIM Spike 178987-29587	Surrogate ID 1 8270 SIM Surrogate 172835-28827		
Spiked ID 2	Surrogate ID 2		
Spiked ID 3	Surrogate ID 3		
Spiked ID 4	Surrogate ID 4		
Spiked ID 5	Surrogate ID 5		
Spiked ID 6	Sufficient Vol for Matrix QC: YES		
Spiked ID 7	Ext. Start Time:		
Spiked ID 8	Ext. End Time:		
GC Requires Extract By: 11/02/11 0:00			
pH1	2	11/2011 11:25:00 AM	Water Bath Temp Criteria 80 °C
pH2	14	11/2011 4:00:00 PM	
pH3			

Spiked By: HW

Date 10/31/2011

Witnessed By: DL

Date 10/31/2011

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	111031A Bik			0.025	1	1000	1	2/1	10/31/11 11:20	
					equip	E-WB5				
2	111031A LCS-1	0.025	1	0.025	1	1000	1	2/1	10/31/11 11:20	
					equip	E-WB5				
3	AY49327 AY49327W08			0.025	1	1040	1	2/1	10/31/11 11:20	66103-1 WEEK RUSH -- Amber Liter
					equip	E-WB5				
4	AY49328 AY49328W04			0.025	1	1040	1	2/1	10/31/11 11:20	66103-1 WEEK RUSH -- Amber Liter
					equip	E-WB5				
5	AY49329 AY49329W04			0.025	1	1030	1	2/1	10/31/11 11:20	66103-1 WEEK RUSH -- Amber Liter
					equip	E-WB5				
6	AY49330 AY49330W07			0.025	1	1040	1	2/1	10/31/11 11:20	66103-1 WEEK RUSH -- Amber Liter
					equip	E-WB5				
7	AY49331 AY49331W07			0.025	1	1030	1	2/1	10/31/11 11:20	66103-1 WEEK RUSH -- Amber Liter
					equip	E-WB5				
8	AY49333 AY49333W10			0.025	1	1050	1	2/1	10/31/11 11:20	66102-2 WEEK RUSH -- Amber Liter
					equip	E-WB5				
9	AY49334 MS-1 AY49334W30	0.025	1	0.025	1	1030	1	2/1	10/31/11 11:20	66102-2 WEEK RUSH -- Amber Liter
					equip	E-WB5				
10	AY49334 MSD-1 AY49334W34	0.025	1	0.025	1	1030	1	2/1	10/31/11 11:20	66102-2 WEEK RUSH -- Amber Liter
					equip	E-WB5				
11	AY49334 AY49334W29			0.025	1	1050	1	2/1	10/31/11 11:20	66102-2 WEEK RUSH -- Amber Liter
					equip	E-WB6				
12	AY49336 AY49336W10			0.025	1	1030	1	2/1	10/31/11 11:20	66102-2 WEEK RUSH -- Amber Liter
					equip	E-WB6				
13	AY49481 AY49481W08			0.025	1	1050	1	2/1	10/31/11 11:20	66116-2 WEEK RUSH -- Amber Liter
					equip	E-WB6				

Solvent and Lot#	
MC	BMD 51204
Na2SO4	3581C501
10N NaOH	10/31/11
1+1 Acid	09/15/11
A. Na2SO4	10/31/11

Extraction COC Transfer	
Extraction lab employee Initials	HW
GC analyst's initials	LF
Date	11/5/11
Time	8:02
Refrigerator	Holman

Technician's Initials	
Scanned By	HW
Sample Preparation	CC
Extraction	HW/DL/JL
Concentration	JL
Modified	10/31/2011 10:48:43 AM

Reviewed By: HW 229 Date 11/1/2011

Organic Extraction Worksheet

Method	SIM Separatory Funnel Extra 3510C	Extraction Set	111031A	Extraction Method	SEP004S	Units	mL
Spiked ID 1	SIM Spike 178987-29587	Surrogate ID 1	8270 SIM Surrogate 172835-28827				
Spiked ID 2		Surrogate ID 2					
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		YES			
Spiked ID 7		Ext. Start Time:					
Spiked ID 8		Ext. End Time:					
			GC Requires Extract By:		11/02/11 0:00		
			pH1	2	11/02/2011 11:25:00 AM	Water Bath Temp Criteria 80 °C	
			pH2	14	11/03/2011 4:00:00 PM		
			pH3				

Spiked By: HW

Date 10/31/2011

Witnessed By: DL

Date 10/31/2011

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
14 AY49482	AY49482W08			0.025	1	1030	1	2/1	10/31/11 11:20	66116-2 WEEK RUSH -- Amber Liter
						equip	E-WB6			

HW 11/1/11

Solvent and Lot#	
MC	EMD 51204
Na2SO4	3581C501
10N NaOH	10/31/11
1+1 Acid	09/15/11
A. Na2SO4	10/31/11

Extraction COC Transfer	
Extraction lab employee Initials	HW
GC analyst's initials	HW
Date	11/5/11
Time	8:00
Refrigerator	Wood

Technician's Initials	
Scanned By	HW
Sample Preparation	CC
Extraction	HW/DL/JL
Concentration	JL
Modified	10/31/2011 10:48:43 AM

Reviewed By: HW 230 Date 11/1/2011

Injection Log

Directory: M:\LINUS\DATA\111027\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	1027L001.D	1	SVTUNE 10-27-11		27 Oct 11 18:29
2	3	1027L003.D	1	0.1ug/ml PAH 10-27-11		27 Oct 11 19:12
3	4	1027L004.D	1	0.2ug/ml PAH		27 Oct 11 19:38
4	1	1028L001.D	1	SVTUNE 10-27-11		28 Oct 11 9:32
5	5	1028L005.D	1	0.5ug/ml PAH		28 Oct 11 11:07
6	6	1028L006.D	1	1.0ug/ml PAH		28 Oct 11 11:32
7	7	1028L007.D	1	5.0ug/ml PAH		28 Oct 11 11:58
8	8	1028L008.D	1	10ug/ml PAH		28 Oct 11 12:23
9	9	1028L009.D	1	50ug/ml PAH		28 Oct 11 12:49
10	10	1028L010.D	1	100ug/ml PAH		28 Oct 11 13:14
11	11	1028L011.D	1	5.0ug/ml SS PAH 10-27-11		28 Oct 11 13:40
12	19	1105L019.D	1	SVTUNE 10-27-11		5 Nov 11 16:36
13	20	1105L020.D	1	5.0ug/ml PAH 10-27-11		5 Nov 11 16:54
14	28	1105L028.D	1	111031A BLK 1/1000		5 Nov 11 20:15
15	29	1105L029.D	1	111031A LCS-1 1/1000		5 Nov 11 20:41
16	35	1105L035.D	0.95238	AY49333W10 1/1050		5 Nov 11 23:11
17	36	1105L036.D	0.97087	AY49334W30 MS-1 1/1030		5 Nov 11 23:36
18	37	1105L037.D	0.97087	AY49334W34 MSD-1 1/1030		6 Nov 11 00:01
19	38	1105L038.D	0.95238	AY49334W29 1/1050		6 Nov 11 00:26
20	39	1105L039.D	0.97087	AY49336W10 1/1030		6 Nov 11 00:51

EPA METHOD 8260B
Volatile Organic Compounds

EPA METHOD 8260B
Volatile Organic Compounds
QC Summary

Method Blank

EPA 8260B VOCs + Gas Water

Blank Name/QCG: 111030W-49334 - 161029

Batch ID: #86RHB-111030AC

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1,1,1,2-TETRACHLOROETHANE	0.26 U	1.0	0.26	0.13	ug/L	10/31/11	10/31/11
BLANK	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	10/31/11	10/31/11
BLANK	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	10/31/11	10/31/11
BLANK	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	10/31/11	10/31/11
BLANK	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
BLANK	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	10/31/11	10/31/11
BLANK	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	10/31/11	10/31/11
BLANK	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	10/31/11	10/31/11
BLANK	1,2-DIBROMO-3-CHLOROPROPA	1.52 U	2.0	1.52	0.76	ug/L	10/31/11	10/31/11
BLANK	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	10/31/11	10/31/11
BLANK	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	10/31/11	10/31/11
BLANK	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	10/31/11	10/31/11
BLANK	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	10/31/11	10/31/11
BLANK	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	10/31/11	10/31/11
BLANK	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	10/31/11	10/31/11
BLANK	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
BLANK	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	10/31/11	10/31/11
BLANK	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	10/31/11	10/31/11
BLANK	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	10/31/11	10/31/11
BLANK	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	10/31/11	10/31/11
BLANK	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	10/31/11	10/31/11
BLANK	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	10/31/11	10/31/11
BLANK	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	10/31/11	10/31/11
BLANK	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	10/31/11	10/31/11
BLANK	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	10/31/11	10/31/11
BLANK	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
BLANK	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	10/31/11	10/31/11
BLANK	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	10/31/11	10/31/11
BLANK	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	10/31/11	10/31/11
BLANK	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	10/31/11	10/31/11
BLANK	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	10/31/11	10/31/11
BLANK	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	10/31/11	10/31/11
BLANK	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
BLANK	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	10/31/11	10/31/11

Quant Method: CALLW.M
 Run #: 1030C34
 Instrument: Chlco
 Sequence: C111030
 Initials: ARS

GC SC-Blank-REG MDLs
 Printed: 12/06/11 3:06:05 PM

Method Blank
EPA 8260B VOCs + Gas Water

Blank Name/QCG: 111030W-49334 - 161029
Batch ID: #86RHB-111030AC

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	10/31/11	10/31/11
BLANK	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	10/31/11	10/31/11
BLANK	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	10/31/11	10/31/11
BLANK	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	10/31/11	10/31/11
BLANK	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
BLANK	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	10/31/11	10/31/11
BLANK	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	10/31/11	10/31/11
BLANK	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
BLANK	SURROGATE: 1,2-DICHLOROET	109	70-120			%	10/31/11	10/31/11
BLANK	SURROGATE: 4-BROMOFLUORO	102	75-120			%	10/31/11	10/31/11
BLANK	SURROGATE: DIBROMOFLUOR	105	85-115			%	10/31/11	10/31/11
BLANK	SURROGATE: TOLUENE-D8 (S)	102	85-120			%	10/31/11	10/31/11

Quant Method: CALLW.M
Run #: 1030C34
Instrument: Chlco
Sequence: C111030
Initials: ARS

GC SC-Blank-REG MDLs
Printed: 12/06/11 3:08:05 PM

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 66102

Case No: 66102

Date Analyzed: 10/31/11

Matrix: WATER

Instrument: Chico

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)			SURROGATE: 4-BROMOFLUOROBENZENE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
111030AC-LCS	Lab Control Spike	70-120	101		75-120	109	
111030AC-BLK	Blank	70-120	109		75-120	102	
AY49335	ES048	70-120	108		75-120	102	
AY49333	ES046	70-120	114		75-120	103	
AY49334	ES047	70-120	104		75-120	98.9	
AY49336	ES049	70-120	98.1		75-120	102	
AY49334-MS	Matrix Spike	70-120	93.7		75-120	101	
AY49334-MSD	Matrix Spiked	70-120	92.1		75-120	105	

Comments: Batch: #86RHB-111030AC

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 66102

Case No: 66102

Date Analyzed: 10/31/11

Matrix: WATER

Instrument: Chico

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
111030AC-LCS	Lab Control Spike	85-115	100		85-120	104	
111030AC-BLK	Blank	85-115	105		85-120	102	
AY49335	ES048	85-115	105		85-120	99.0	
AY49333	ES046	85-115	105		85-120	98.9	
AY49334	ES047	85-115	102		85-120	97.6	
AY49336	ES049	85-115	100		85-120	101	
AY49334-MS	Matrix Spike	85-115	98.4		85-120	102	
AY49334-MSD	Matrix SpikeD	85-115	99.6		85-120	104	

Comments: Batch: #86RHB-111030AC

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: 111031W-49334 LCS - 161029

Batch ID: #86RHB-111030AC

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1,1,1,2-TETRACHLOROETHANE	10.00	11.0	110	80-130
1,1,1-TRICHLOROETHANE	10.00	9.55	95.5	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	10.3	103	65-130
1,1,2-TRICHLOROETHANE	10.00	9.91	99.1	75-125
1,1-DICHLOROETHANE	10.00	9.98	99.8	70-135
1,1-DICHLOROETHENE	10.00	8.83	88.3	70-130
1,2,3-TRICHLOROPROPANE	10.00	11.8	118	75-125
1,2,4-TRICHLOROETHANE	10.00	10.2	102	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	10.2	102	50-130
1,2-DIBROMOETHANE	10.00	10.7	107	70-130
1,2-DICHLOROBENZENE	10.00	10.1	101	70-120
1,2-DICHLOROETHANE	10.00	9.61	96.1	70-130
1,2-DICHLOROPROPANE	10.00	10.1	101	75-125
1,3-DICHLOROBENZENE	10.00	9.67	96.7	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	19.7	98.5	70-130
1,4-DICHLOROBENZENE	10.00	9.94	99.4	75-125
2-BUTANONE	10.00	10.5	105	30-150
4-METHYL-2-PENTANONE	10.00	9.78	97.8	60-135
ACETONE	10.00	13.0	130	40-140
BENZENE	10.00	9.48	94.8	80-120
BROMODICHLOROMETHANE	10.00	10.0	100	75-120
BROMOFORM	10.00	9.32	93.2	70-130
BROMOMETHANE	10.00	8.95	89.5	30-145
CARBON TETRACHLORIDE	10.00	9.77	97.7	65-140
CHLOROBENZENE	10.00	10.3	103	80-120
CHLORODIBROMOMETHANE	10.00	11.0	110	60-135

Comments: _____

<u>Primary</u>	<u>SPK</u>
Quant Method :	CALLW.M
Extraction Date :	10/31/11
Analysis Date :	10/31/11
Instrument :	Chico
Run :	1030C28
Initials :	ARS

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APPL Standard LCS

Laboratory Control Spike Recovery
EPA 8260B VOCs + Gas Water

APPL ID: 111031W-49334 LCS - 161029
 Batch ID: #86RHB-111030AC

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
CHLOROETHANE	10.00	8.89	88.9	60-135
CHLOROFORM	10.00	9.79	97.9	65-135
CHLOROMETHANE	10.00	9.42	94.2	40-125
CIS-1,2-DICHLOROETHENE	10.00	9.18	91.8	70-125
ETHYLBENZENE	10.00	10.1	101	75-125
GASOLINE	300	370	123	75-125
HEXACHLOROBTADIENE	10.00	10.5	105	50-140
METHYL TERT-BUTYL ETHER	10.00	9.69	96.9	65-125
METHYLENE CHLORIDE	10.00	9.05	90.5	55-140
STYRENE	10.00	10.6	106	65-135
TETRACHLOROETHENE	10.00	10.1	101	45-150
TOLUENE	10.00	9.40	94.0	75-120
TRANS-1,2-DICHLOROETHENE	10.00	9.05	90.5	60-140
TRICHLOROETHENE	10.00	9.64	96.4	70-125
VINYL CHLORIDE	10.00	10.2	102	50-145
XYLENES (TOTAL)	30.0	30.3	101	80-120

SURROGATE: 1,2-DICHLOROETHANE-D	24.2	24.4	101	70-120
SURROGATE: 4-BROMOFLUOROBENZE	25.5	27.7	109	75-120
SURROGATE: DIBROMOFLUOROMETH	25.1	25.2	100	85-115
SURROGATE: TOLUENE-D8 (S)	25.8	26.9	104	85-120

Comments: _____

<u>Primary</u>	<u>SPK</u>
Quant Method :	CALLW.M
Extraction Date :	10/31/11
Analysis Date :	10/31/11
Instrument :	Chlco
Run :	1030C28
Initials :	ARS

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APPL Standard LCS

Matrix Spike Recoveries

EPA 8260B VOCs + Gas Water

APPL ID: 111031W-49334 MS - 161029
 Batch ID: #86RHB-111030AC
 Sample ID: AY49334
 Client ID: ES047

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1,1,1,2-TETRACHLOROETHANE	10.00	ND	10.9	11.2	109	112	80-130	2.7	30
1,1,1-TRICHLOROETHANE	10.00	ND	8.95	9.51	89.5	95.1	65-130	6.1	30
1,1,2,2-TETRACHLOROETHANE	10.00	ND	12.7	12.6	127	126	65-130	0.79	30
1,1,2-TRICHLOROETHANE	10.00	ND	10.6	10.6	106	106	75-125	0.0	30
1,1-DICHLOROETHANE	10.00	ND	9.46	9.94	94.6	99.4	70-135	4.9	30
1,1-DICHLOROETHENE	10.00	ND	8.96	9.50	89.6	95.0	70-130	5.9	30
1,2,3-TRICHLOROPROPANE	10.00	ND	11.6	11.4	116	114	75-125	1.7	30
1,2,4-TRICHLOROENZENE	10.00	ND	9.55	10.1	95.5	101	65-135	5.6	30
1,2-DIBROMO-3-CHLOROPROPANE	10.00	ND	11.2	12.2	112	122	50-130	8.5	30
1,2-DIBROMOETHANE	10.00	ND	10.9	10.8	109	108	70-130	0.92	30
1,2-DICHLOROENZENE	10.00	ND	9.85	10.2	98.5	102	70-120	3.5	30
1,2-DICHLOROETHANE	10.00	ND	8.97	9.48	89.7	94.8	70-130	5.5	30
1,2-DICHLOROPROPANE	10.00	ND	9.62	10.5	96.2	105	75-125	8.7	30
1,3-DICHLOROENZENE	10.00	ND	9.68	10.1	96.8	101	75-125	4.2	30
1,3-DICHLOROPROPENE, TOTAL	20.0	ND	20.4	20.9	102	105	70-130	2.4	30
1,4-DICHLOROENZENE	10.00	ND	9.80	10.2	98.0	102	75-125	4.0	30
2-BUTANONE	10.00	ND	10.5	10.2	105	102	30-150	2.9	30
4-METHYL-2-PENTANONE	10.00	ND	11.0	11.0	110	110	60-135	0.0	30
ACETONE	10.00	ND	11.9	13.6	119	136	40-140	13.3	30
BENZENE	10.00	ND	9.56	10.2	95.6	102	80-120	6.5	30
BROMODICHLOROMETHANE	10.00	ND	9.85	10.3	98.5	103	75-120	4.5	30
BROMOFORM	10.00	ND	9.59	10.1	95.9	101	70-130	5.2	30
BROMOMETHANE	10.00	ND	9.35	9.85	93.5	98.5	30-145	5.2	30
CARBON TETRACHLORIDE	10.00	ND	9.77	9.93	97.7	99.3	65-140	1.6	30
CHLOROENZENE	10.00	ND	9.68	10.1	96.8	101	80-120	4.2	30

= Recovery is outside QC limits.

Comments:

Primary	SPK	DUP
Quant Method :	CALLW.M	CALLW.M
Extraction Date :	10/31/11	10/31/11
Analysis Date :	10/31/11	10/31/11
Instrument :	Chico	Chico
Run :	1030C39	1030C40
Initials :	ARS	

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 APPL MSD SCII

Matrix Spike Recoveries

EPA 8260B VOCs + Gas Water

APPL ID: 111031W-49334 MS - 161029
 Batch ID: #86RHB-111030AC
 Sample ID: AY49334
 Client ID: ES047

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
CHLORODIBROMOMETHANE	10.00	ND	10.8	11.4	108	114	60-135	5.4	30
CHLOROETHANE	10.00	ND	8.88	9.26	88.8	92.6	60-135	4.2	30
CHLOROFORM	10.00	ND	9.21	9.65	92.1	96.5	65-135	4.7	30
CHLOROMETHANE	10.00	ND	8.69	9.03	86.9	90.3	40-125	3.8	30
CIS-1,2-DICHLOROETHENE	10.00	ND	9.19	9.57	91.9	95.7	70-125	4.1	30
ETHYLBENZENE	10.00	ND	9.73	10.3	97.3	103	75-125	5.7	30
GASOLINE	300	ND	374	377	125	126 #	75-125	0.80	30
HEXACHLOROBUTADIENE	10.00	ND	9.04	9.78	90.4	97.8	50-140	7.9	30
METHYL TERT-BUTYL ETHER	10.00	ND	10.1	10.2	101	102	65-125	0.99	30
METHYLENE CHLORIDE	10.00	ND	9.83	9.84	98.3	98.4	55-140	0.10	30
STYRENE	10.00	ND	10.2	10.6	102	106	65-135	3.8	30
TETRACHLOROETHENE	10.00	ND	9.48	10.3	94.8	103	45-150	8.3	30
TOLUENE	10.00	ND	9.46	10.4	94.6	104	75-120	9.5	30
TRANS-1,2-DICHLOROETHENE	10.00	ND	9.17	9.47	91.7	94.7	60-140	3.2	30
TRICHLOROETHENE	10.00	ND	9.00	9.38	90.0	93.8	70-125	4.1	30
VINYL CHLORIDE	10.00	ND	9.90	9.78	99.0	97.8	50-145	1.2	30
XYLENES (TOTAL)	30.0	ND	29.1	30.7	97.0	102	80-120	5.4	30

SURROGATE: 1,2-DICHLOROETHANE-D	24.2	NA	22.7	22.3	93.7	92.1	70-120		
SURROGATE: 4-BROMOFLUOROBENZE	25.5	NA	25.8	26.7	101	105	75-120		
SURROGATE: DIBROMOFLUOROMETH	25.1	NA	24.7	25.0	98.4	99.6	85-115		
SURROGATE: TOLUENE-D8 (S)	25.8	NA	26.3	26.9	102	104	85-120		

= Recovery is outside QC limits.

Comments:

Primary	SPK	DUP
Quant Method :	CALLW.M	CALLW.M
Extraction Date :	10/31/11	10/31/11
Analysis Date :	10/31/11	10/31/11
Instrument :	Chlco	Chico
Run :	1030C39	1030C40
Initials :	ARS	

Printed: 12/06/11 3:06:12 PM
 APPL MSD SCII

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 66102

Case No: 66102

Date Analyzed: 10/31/11

Matrix: WATER

Instrument: Chico

Blank ID: 111030AC-BLK

Time Analyzed: 1302

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
111030AC-LCS	Lab Control Spike	1030C28	10/31/11 0848
111030AC-BLK	Blank	1030C34	10/31/11 1302
AY49335	ES048	1030C35	10/31/11 1339
AY49333	ES046	1030C36	10/31/11 1416
AY49334	ES047	1030C37	10/31/11 1453
AY49336	ES049	1030C38	10/31/11 1531
111030AC-MS	Matrix Spike	1030C39	10/31/11 1608
111030AC-MSD	Matrix Spiked	1030C40	10/31/11 1645

Comments: Batch: #86RHB-111030AC

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Form 4, Blank Summary

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 66102
 Matrix: Water
 ID: 20ug/mL BFB STD 10-19-11

SDG No: 66102
 Date Analyzed: 10/31/11
 Instrument: Chico
 Time Analyzed: 7:21

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	Lab Control Spike	111030A LCS-1WC (SS)	1030C28W.D
2	Lab Control Spike	GAS 300ug/L LCS-1WC	1030C31W.D
3	Blank	111030A BLK-1WC	1030C34W.D
4	ES048	AY49335W01	1030C35W.D
5	ES046	AY49333W04	1030C36W.D
6	ES047	AY49334W13	1030C37W.D
7	ES049	AY49336W04	1030C38W.D
8	Matrix Spike	AY49334W141516 MS-1W	1030C39W.D
9	Matrix Spike Dup	AY49334W141516 MSD-1	1030C40W.D
10	Matrix Spike	AY49334W161718 MS-1W	1030C41W.D
11	Matrix Spike Dup	AY49334W161718 MSD-1	1030C42W.D
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

50	15 - 40% of mass 95	20.6
75	30 - 60% of mass 95	49.7
95	100 - 100% of mass 95	100.0
96	5 - 9% of mass 95	6.6
173	0 - 2% of mass 174	0.0
174	50 - 100% of mass 95	91.6
175	5 - 9% of mass 174	6.9
176	95 - 101% of mass 174	97.7
177	5 - 9% of mass 176	6.7

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 66102
 Lab File ID (Standard): 1030C20W.D Date Analyzed: 10/31/11
 Instrument ID: Chico Time Analyzed: 3:03
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Fluorobenzene (IS)		Chlorobenzene-D5 (IS)		1,4-Dichlorobenzene-D (IS)		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	566544	12.84	375296	18.04	203520	22.24	
UPPER LIMIT	1113088	13.34	750592	18.54	407040	22.74	
LOWER LIMIT	278272	12.34	187648	17.54	101760	21.74	
SAMPLE NO.							
01	111030A LCS-1WC (SS	600576	12.84	389760	18.04	212800	22.24
02	111030A BLk-1WC	564158	12.85	392640	18.05	207424	22.26
03	AY49335W01	576569	12.85	396544	18.05	214592	22.25
04	AY49333W04	558622	12.85	391168	18.05	206336	22.26
05	AY49334W13	617536	12.85	437056	18.05	232960	22.26
06	AY49336W04	662144	12.85	450969	18.05	251840	22.26
07	AY49334W141516 MS-	673315	12.85	444608	18.05	234048	22.26
08	AY49334W141516 MSD	673885	12.85	449984	18.05	240256	22.26
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

**EPA METHOD 8260B
Volatile Organic Compounds
Sample Data**

EPA 8260B VOCs + Gas Water

EnviroNet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacy Fineran

Project: RED HILL/1022-024

ARF: 66102

Sample ID: ES046

APPL ID: AY49333

Sample Collection Date: 10/24/11

QCG: #86RHB-111030AC-161029

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1,2-TETRACHLOROETHANE	0.26 U	1.0	0.26	0.13	ug/L	10/31/11	10/31/11
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	10/31/11	10/31/11
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	10/31/11	10/31/11
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	10/31/11	10/31/11
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	10/31/11	10/31/11
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	10/31/11	10/31/11
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	10/31/11	10/31/11
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	10/31/11	10/31/11
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	10/31/11	10/31/11
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	10/31/11	10/31/11
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	10/31/11	10/31/11
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	10/31/11	10/31/11
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	10/31/11	10/31/11
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	10/31/11	10/31/11
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	10/31/11	10/31/11
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	10/31/11	10/31/11
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	10/31/11	10/31/11
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	10/31/11	10/31/11
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	10/31/11	10/31/11
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	10/31/11	10/31/11
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	10/31/11	10/31/11
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	10/31/11	10/31/11
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	10/31/11	10/31/11
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	10/31/11	10/31/11
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	10/31/11	10/31/11
EPA 8260B	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	10/31/11	10/31/11
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	10/31/11	10/31/11
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	10/31/11	10/31/11
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	10/31/11	10/31/11
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
EPA 8260B	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	10/31/11	10/31/11
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	10/31/11	10/31/11

Quant Method: CALLW.M
Run #: 1030C36
Instrument: Chico
Sequence: C111030
Dilution Factor: 1
Initials: ARS

Printed: 12/06/11 3:06:18 PM

APPL-F1-SC-NoMC-REG MDLs

EPA 8260B VOCs + Gas Water

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacy Fineran

Project: RED HILL/1022-024

Sample ID: ES046

Sample Collection Date: 10/24/11

ARF: 66102

APPL ID: AY49333

QCG: #86RHB-111030AC-161029

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	10/31/11	10/31/11
EPA 8260B	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	10/31/11	10/31/11
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	10/31/11	10/31/11
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	10/31/11	10/31/11
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	10/31/11	10/31/11
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	114	70-120			%	10/31/11	10/31/11
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	103	75-120			%	10/31/11	10/31/11
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	105	85-115			%	10/31/11	10/31/11
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	98.9	85-120			%	10/31/11	10/31/11

Quant Method: CALLW.M
Run #: 1030C36
Instrument: Chico
Sequence: C111030
Dilution Factor: 1
Initials: ARS

Printed: 12/06/11 3:06:18 PM
APPL-F1-SC-NoMC-REG MDLs

Data File : M:\CHICO\DATA\C111030\1030C36W.D Vial: 1
 Acq On : 31 Oct 11 14:16 Operator: STC
 Sample : AY49333W04 Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 3 11:55 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Wed Nov 02 14:33:25 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	12.85	96	558622	25.00000	ppb	0.02
55) Chlorobenzene-D5 (IS)	18.05	117	391168	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.26	152	206336	25.00000	ppb	0.02
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.43	111	393930	26.47220	ppb	0.00
Spiked Amount	25.097				Recovery = 105.478%	
38) 1,2-DCA-D4 (S)	12.23	65	365380	27.58295	ppb	0.00
Spiked Amount	24.225				Recovery = 113.860%	
56) Toluene-D8 (S)	15.51	98	1404152	25.51187	ppb	0.02
Spiked Amount	25.808				Recovery = 98.852%	
64) 4-Bromofluorobenzene(S)	20.12	95	515677	26.14866	ppb	0.00
Spiked Amount	25.459				Recovery = 102.708%	
Target Compounds						
73) Isopropylbenzene	19.75	105	376343	5.03244	ppb	Qvalue 100
78) n-Propylbenzene	20.46	91	491031	5.50399	ppb	99
83) Tert-Butylbenzene	21.38	119	58606	0.89124	ppb	96
85) Sec-Butylbenzene	21.76	105	425161	5.39136	ppb	96
91) n-Butylbenzene	22.71	91	175843	2.98472	ppb	# 87
96) Naphthalene	25.94	128	360908	14.38582	ppb	95

Quantitation Report

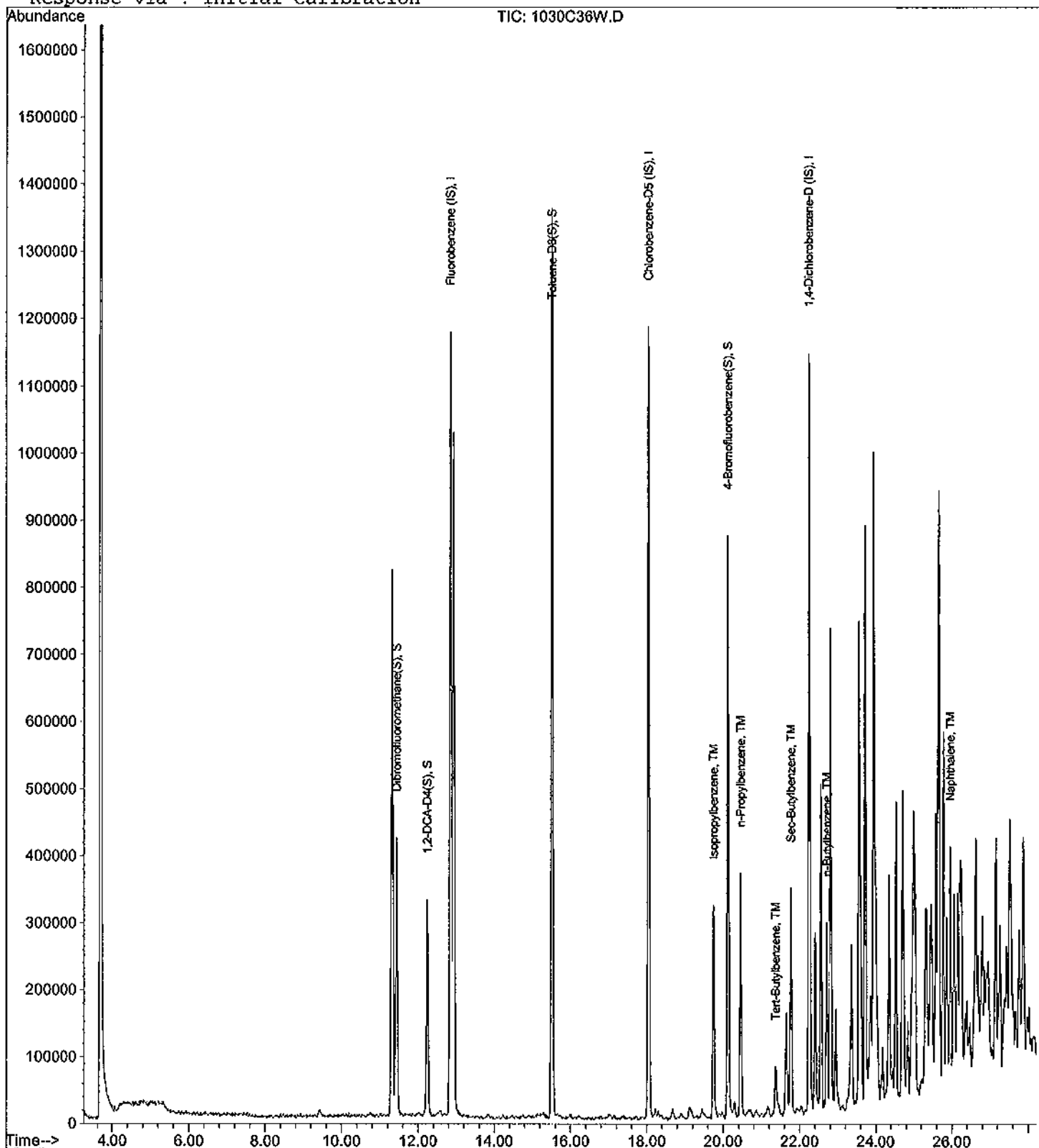
Data File : M:\CHICO\DATA\C111030\1030C36W.D
Acq On : 31 Oct 11 14:16
Sample : AY49333W04
Misc : Water 10mLw/ IS&S:10-30/10-26-11

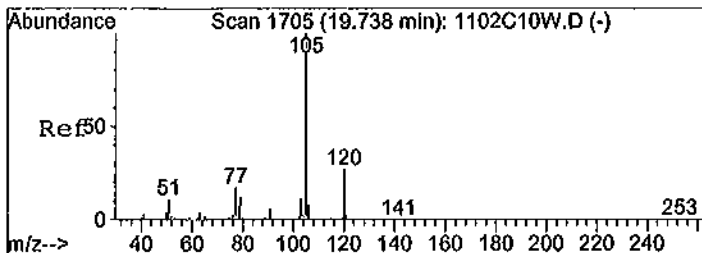
Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 11:55 2011

Quant Results File: CALLW.RES

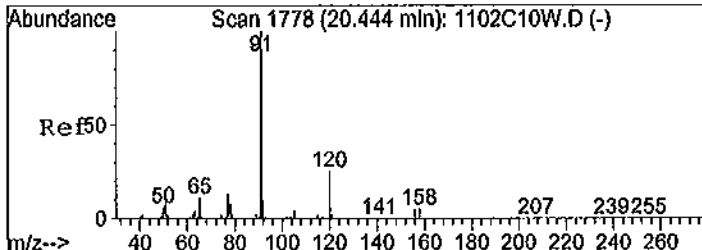
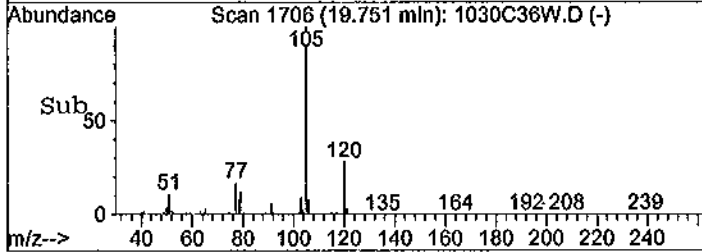
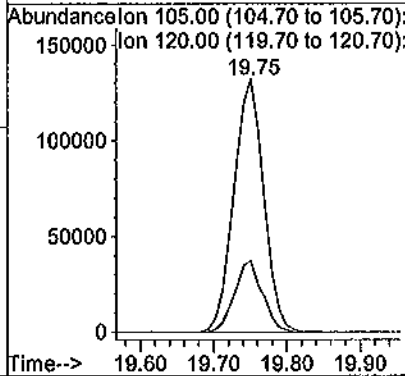
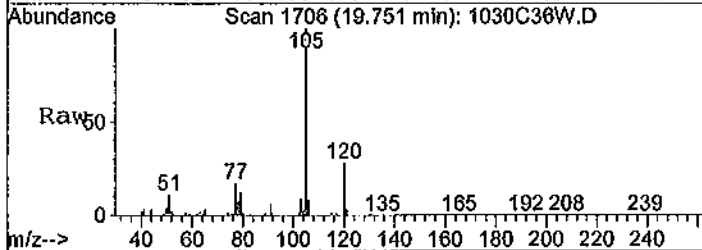
Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 03 10:27:07 2011
Response via : Initial Calibration





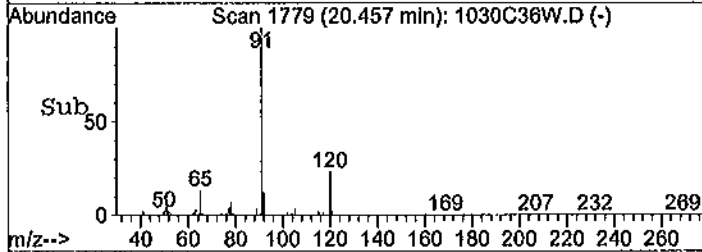
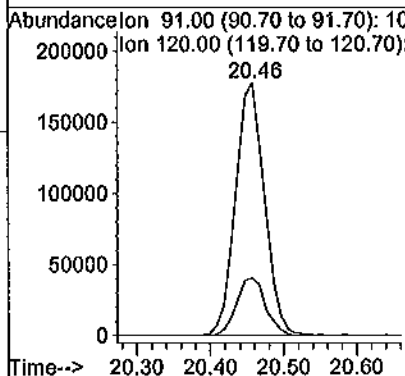
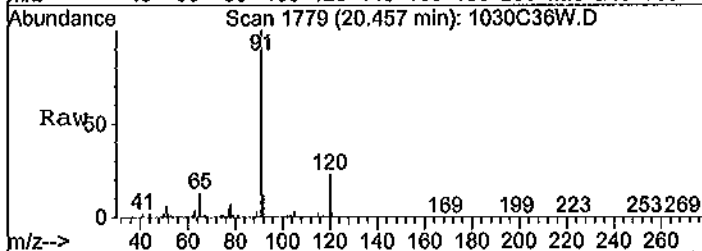
#73
 Isopropylbenzene
 Concen: 5.03244 ppb
 RT: 19.75 min Scan# 1706
 Delta R.T. 0.02 min
 Lab File: 1030C36W.D
 Acq: 31 Oct 11 14:16

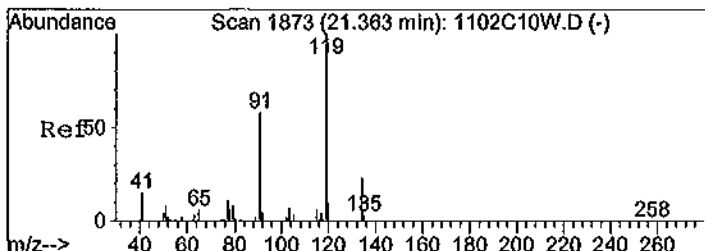
Tgt Ion: 105 Resp: 376343
 Ion Ratio Lower Upper
 105 100
 120 28.1 22.6 33.8



#78
 n-Propylbenzene
 Concen: 5.50399 ppb
 RT: 20.46 min Scan# 1779
 Delta R.T. 0.02 min
 Lab File: 1030C36W.D
 Acq: 31 Oct 11 14:16

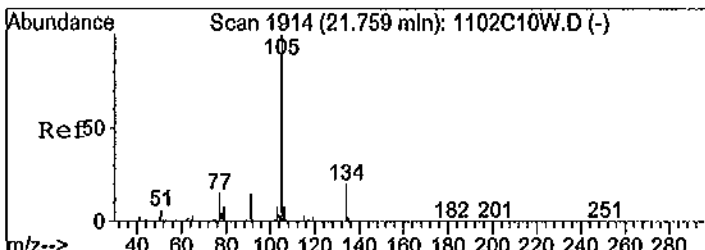
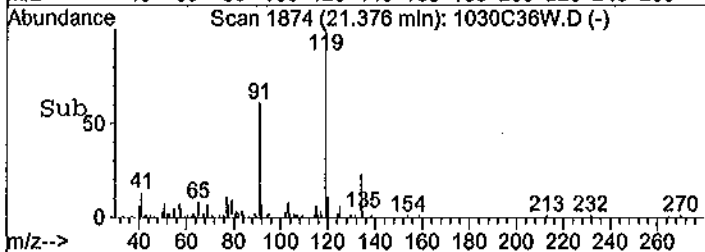
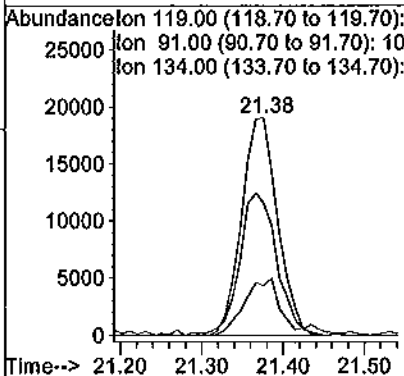
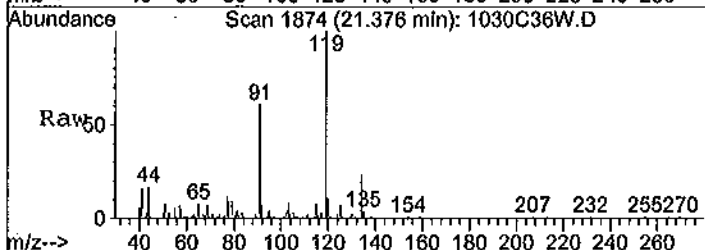
Tgt Ion: 91 Resp: 491031
 Ion Ratio Lower Upper
 91 100
 120 22.8 15.7 29.1





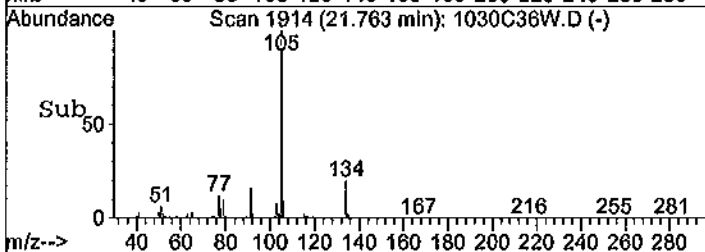
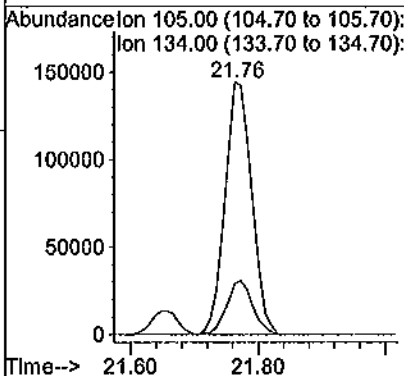
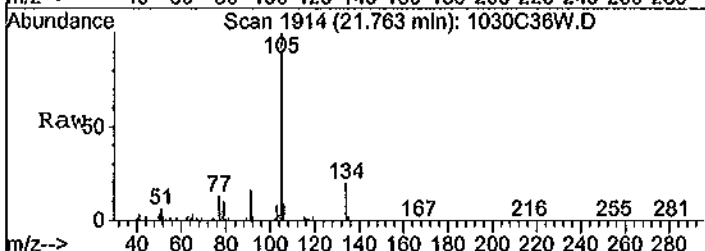
#83
 Tert-Butylbenzene
 Concen: 0.89124 ppb
 RT: 21.38 min Scan# 1874
 Delta R.T. 0.02 min
 Lab File: 1030C36W.D
 Acq: 31 Oct 11 14:16

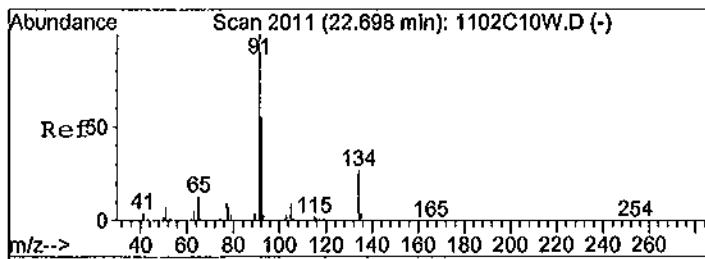
Tgt Ion	Resp	Lower	Upper
119	58606		
91	60.7	43.5	80.7
134	22.8	18.8	34.8



#85
 Sec-Butylbenzene
 Concen: 5.39136 ppb
 RT: 21.76 min Scan# 1914
 Delta R.T. 0.01 min
 Lab File: 1030C36W.D
 Acq: 31 Oct 11 14:16

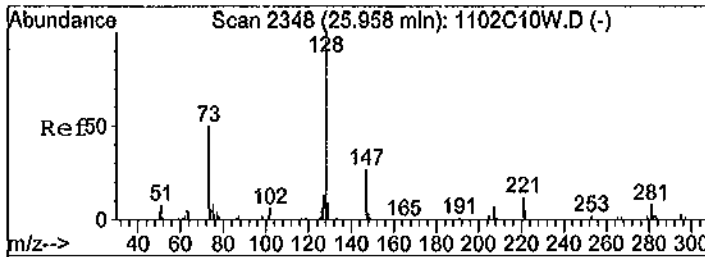
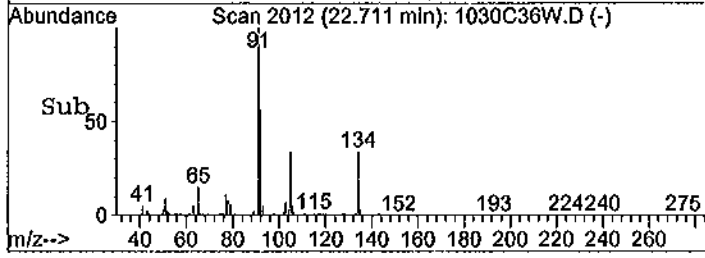
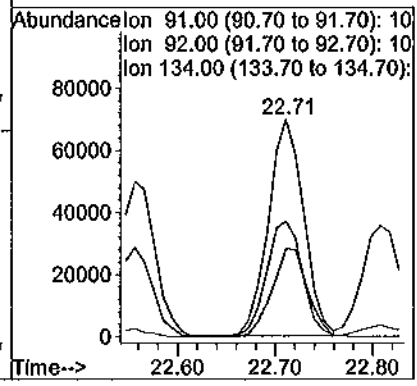
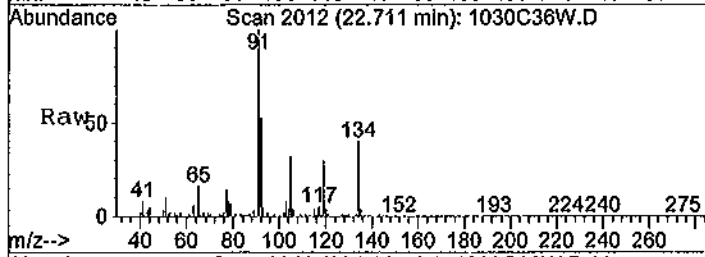
Tgt Ion	Resp	Lower	Upper
105	425161		
134	20.2	15.3	28.5





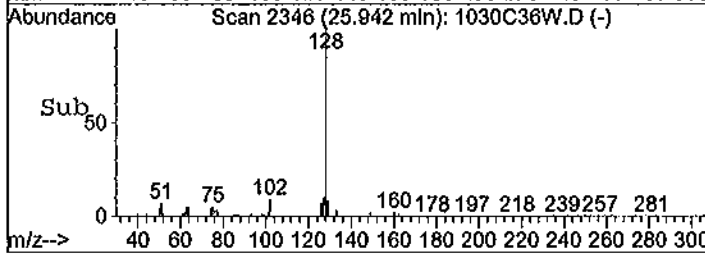
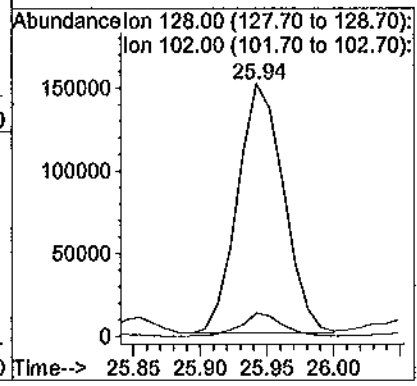
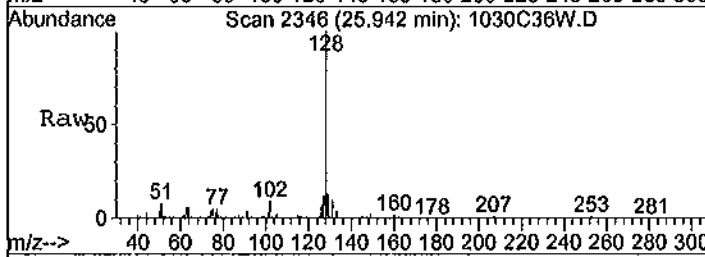
#91
 n-Butylbenzene
 Concen: 2.98472 ppb
 RT: 22.71 min Scan# 2012
 Delta R.T. 0.02 min
 Lab File: 1030C36W.D
 Acq: 31 Oct 11 14:16

Tgt Ion	Resp	Lower	Upper
91	100		
92	53.2	41.4	77.0
134	40.1	19.8	36.8#



#96
 Naphthalene
 Concen: 14.38582 ppb
 RT: 25.94 min Scan# 2346
 Delta R.T. 0.01 min
 Lab File: 1030C36W.D
 Acq: 31 Oct 11 14:16

Tgt Ion	Resp	Lower	Upper
128	100		
102	9.2	5.1	9.5



Data File : M:\CHICO\DATA\C111030\1030C36W.D Vial: 1
 Acq On : 31 Oct 11 14:16 Operator: STC
 Sample : AY49333W04 Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 10 10:23 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1167658	25.00000	ppb	0.01
3) Chlorobenzene-D5 (IS)	18.05	TIC	1180896	25.00000	ppb	0.01
4) 1,4-Dichlorobenzene-D (IS)	22.25	TIC	1128483	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

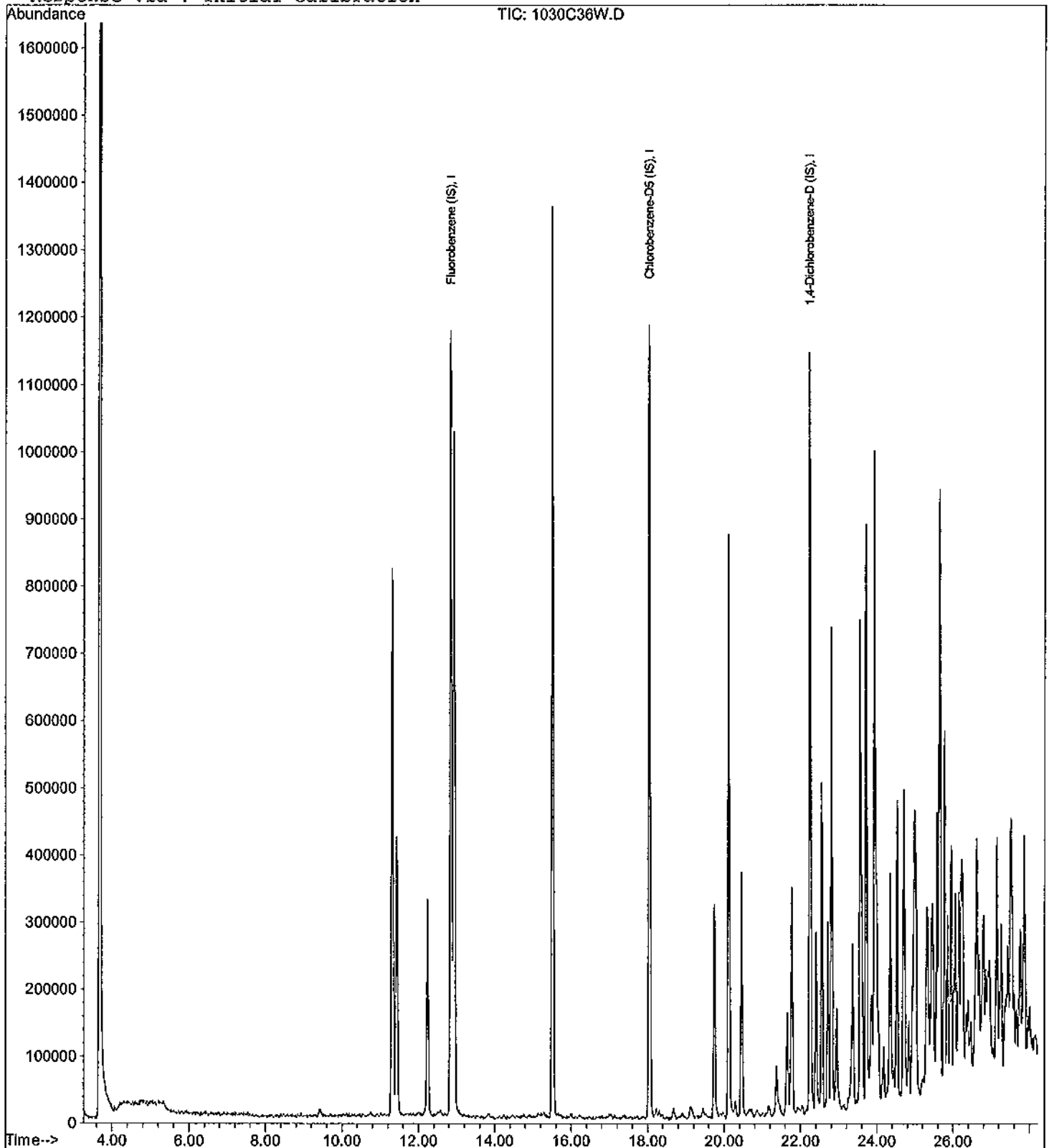
Data File : M:\CHICO\DATA\C111030\1030C36W.D
Acq On : 31 Oct 11 14:16
Sample : AY49333W04
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 10 10:23 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



EPA 8260B VOCs + Gas Water

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacy Fineran

Project: RED HILL/1022-024

ARF: 66102

Sample ID: ES047

APPL ID: AY49334

Sample Collection Date: 10/24/11

QCG: #86RHB-111030AC-161029

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1,2-TETRACHLOROETHANE	0.26 U	1.0	0.26	0.13	ug/L	10/31/11	10/31/11
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	10/31/11	10/31/11
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	10/31/11	10/31/11
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	10/31/11	10/31/11
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	10/31/11	10/31/11
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	10/31/11	10/31/11
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	10/31/11	10/31/11
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	10/31/11	10/31/11
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	10/31/11	10/31/11
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	10/31/11	10/31/11
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	10/31/11	10/31/11
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	10/31/11	10/31/11
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	10/31/11	10/31/11
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	10/31/11	10/31/11
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	10/31/11	10/31/11
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	10/31/11	10/31/11
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	10/31/11	10/31/11
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	10/31/11	10/31/11
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	10/31/11	10/31/11
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	10/31/11	10/31/11
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	10/31/11	10/31/11
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	10/31/11	10/31/11
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	10/31/11	10/31/11
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	10/31/11	10/31/11
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	10/31/11	10/31/11
EPA 8260B	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	10/31/11	10/31/11
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	10/31/11	10/31/11
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	10/31/11	10/31/11
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	10/31/11	10/31/11
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
EPA 8260B	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	10/31/11	10/31/11
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	10/31/11	10/31/11

Quant Method: CALLW.M
Run #: 1030C37
Instrument: Chico
Sequence: C111030
Dilution Factor: 1
Initials: ARS

Printed: 12/06/11 3:06:18 PM

APPL-F1-SC-NoMC-REG MDLs

EPA 8260B VOCs + Gas Water

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacy Fineran

Project: RED HILL/1022-024

Sample ID: ES047

Sample Collection Date: 10/24/11

ARF: 66102

APPL ID: AY49334

QCG: #86RHB-111030AC-161029

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	10/31/11	10/31/11
EPA 8260B	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	10/31/11	10/31/11
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	10/31/11	10/31/11
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	10/31/11	10/31/11
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	10/31/11	10/31/11
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	104	70-120			%	10/31/11	10/31/11
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	98.9	75-120			%	10/31/11	10/31/11
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	102	85-115			%	10/31/11	10/31/11
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	97.6	85-120			%	10/31/11	10/31/11

Quant Method: CALLW.M
Run #: 1030C37
Instrument: Chico
Sequence: C111030
Dilution Factor: 1
Initials: ARS

Printed: 12/06/11 3:06:18 PM

APPL-F1-SC-NoMC-REG MDLs

Data File : M:\CHICO\DATA\C111030\1030C37W.D Vial: 1
 Acq On : 31 Oct 11 14:53 Operator: STC
 Sample : AY49334W13 Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 3 12:00 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Wed Nov 02 14:33:25 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	96	617536	25.00000	ppb	0.02
55) Chlorobenzene-D5 (IS)	18.05	117	437056	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.26	152	232960	25.00000	ppb	0.02
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.43	111	420841	25.58260	ppb	0.00
Spiked Amount	25.097				Recovery = 101.935%	
38) 1,2-DCA-D4(S)	12.23	65	368967	25.19644	ppb	0.00
Spiked Amount	24.225				Recovery = 104.007%	
56) Toluene-D8(S)	15.51	98	1549428	25.19567	ppb	0.02
Spiked Amount	25.808				Recovery = 97.628%	
64) 4-Bromofluorobenzene(S)	20.13	95	554811	25.17926	ppb	0.02
Spiked Amount	25.459				Recovery = 98.898%	
Target Compounds						Qvalue
73) Isopropylbenzene	19.75	105	388062	4.59610	ppb	99
78) n-Propylbenzene	20.46	91	482750	4.79275	ppb	100
83) Tert-Butylbenzene	21.37	119	65995	0.88891	ppb	94
85) Sec-Butylbenzene	21.77	105	453460	5.09305	ppb	97
96) Naphthalene	25.94	128	258129	9.11315	ppb	95

Quantitation Report

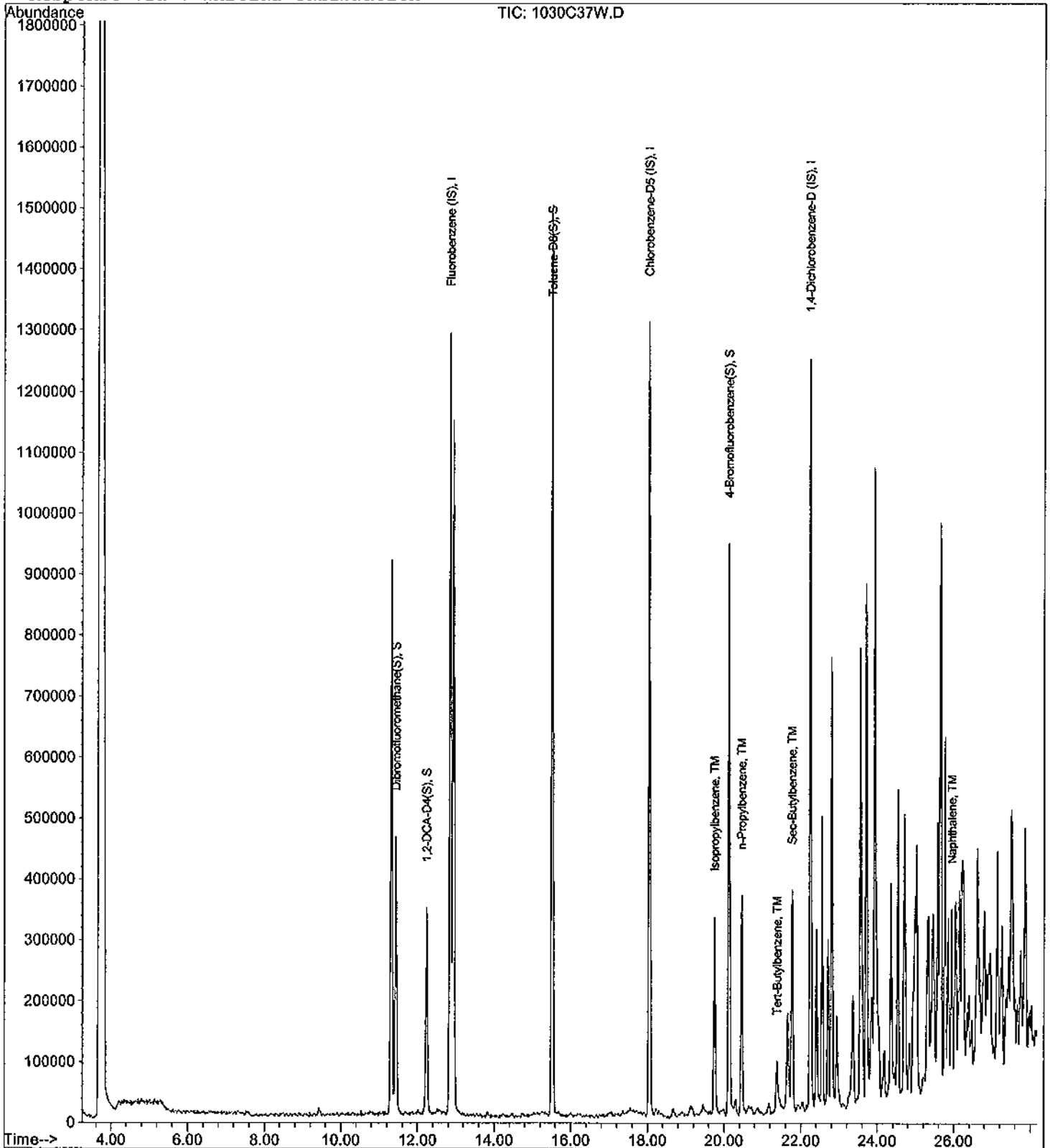
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Acq On : 31 Oct 11 14:53
Sample : AY49334W13
Misc : Water 10mLw/ IS&S:10-30/10-26-11

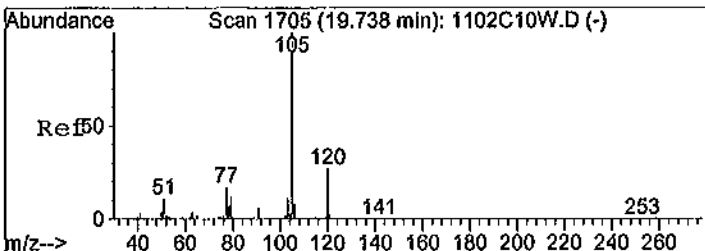
Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 12:00 2011

Quant Results File: CALLW.RES

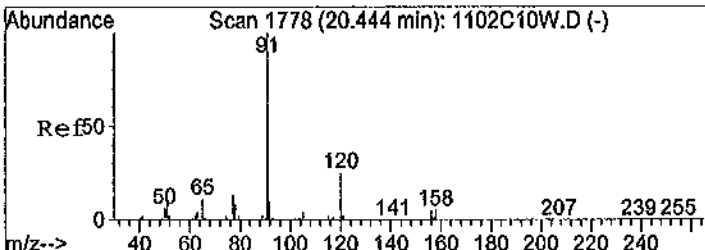
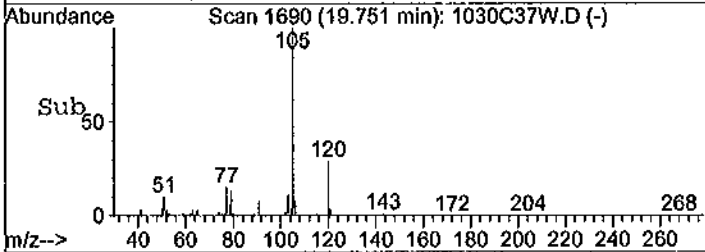
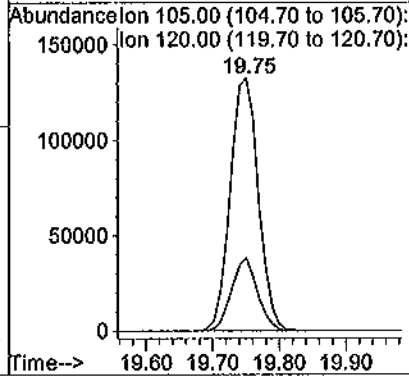
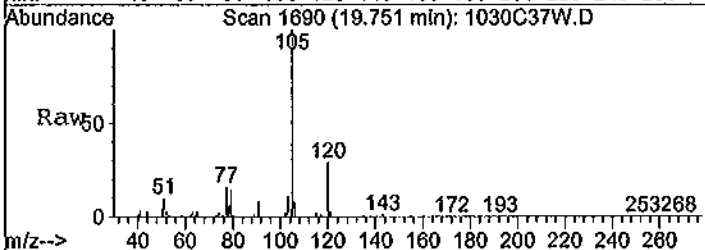
Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 03 10:27:07 2011
Response via : Initial Calibration





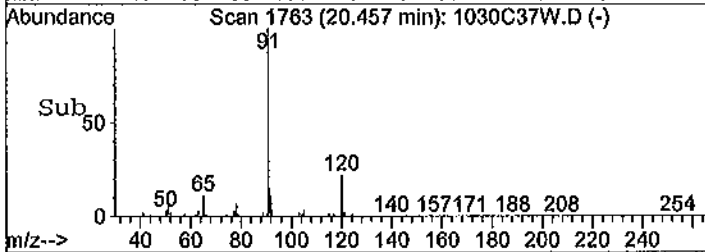
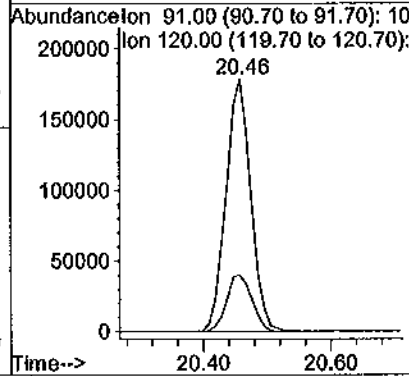
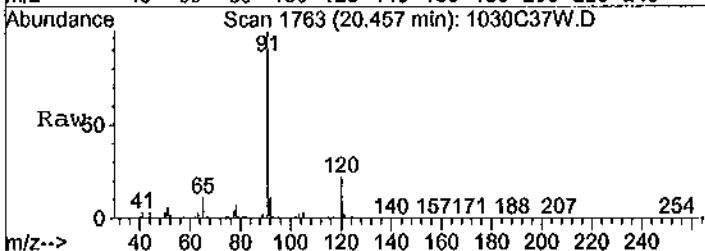
#73
 Isopropylbenzene
 Concen: 4.59610 ppb
 RT: 19.75 min Scan# 1690
 Delta R.T. 0.02 min
 Lab File: 1030C37W.D
 Acq: 31 Oct 11 14:53

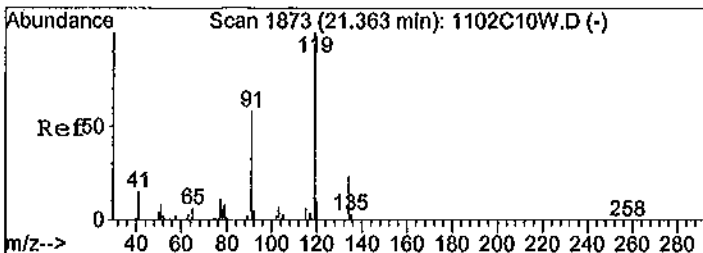
Tgt Ion: 105 Resp: 388062
 Ion Ratio Lower Upper
 105 100
 120 28.8 22.6 33.8



#78
 n-Propylbenzene
 Concen: 4.79275 ppb
 RT: 20.46 min Scan# 1763
 Delta R.T. 0.02 min
 Lab File: 1030C37W.D
 Acq: 31 Oct 11 14:53

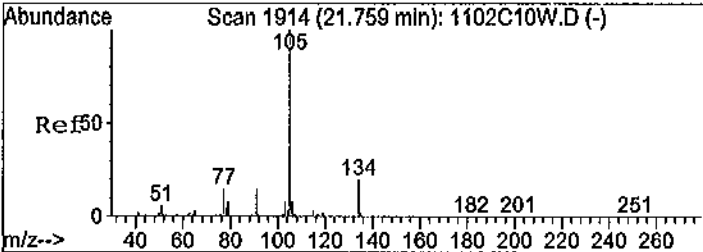
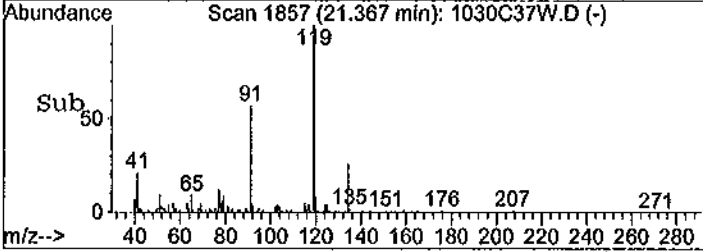
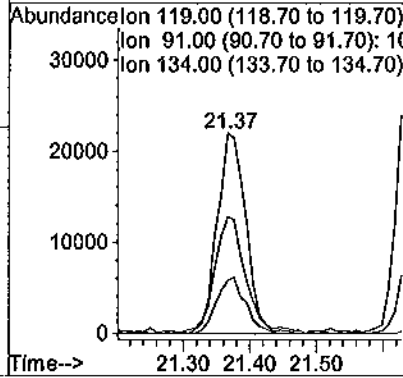
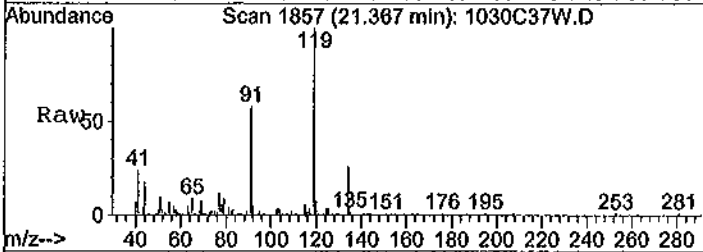
Tgt Ion: 91 Resp: 482750
 Ion Ratio Lower Upper
 91 100
 120 22.3 15.7 29.1





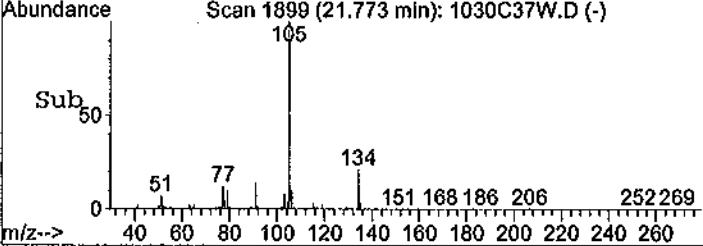
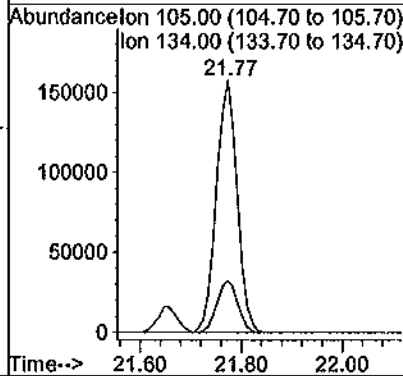
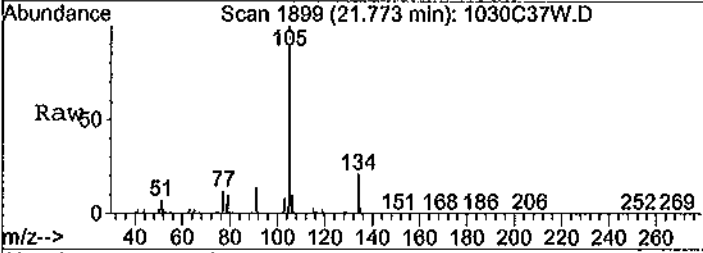
#83
 Tert-Butylbenzene
 Concen: 0.88891 ppb
 RT: 21.37 min Scan# 1857
 Delta R.T. 0.01 min
 Lab File: 1030C37W.D
 Acq: 31 Oct 11 14:53

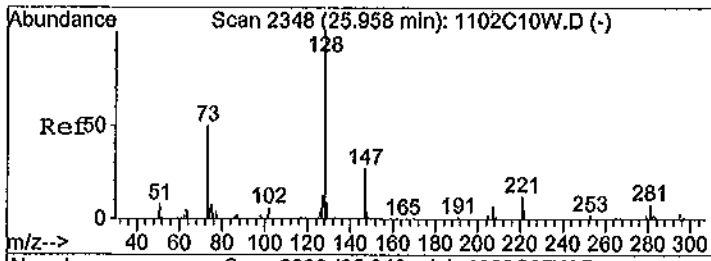
Tgt Ion	Resp	Lower	Upper
119	65995		
91	56.1	43.5	80.7
134	26.3	18.8	34.8



#85
 Sec-Butylbenzene
 Concen: 5.09305 ppb
 RT: 21.77 min Scan# 1899
 Delta R.T. 0.02 min
 Lab File: 1030C37W.D
 Acq: 31 Oct 11 14:53

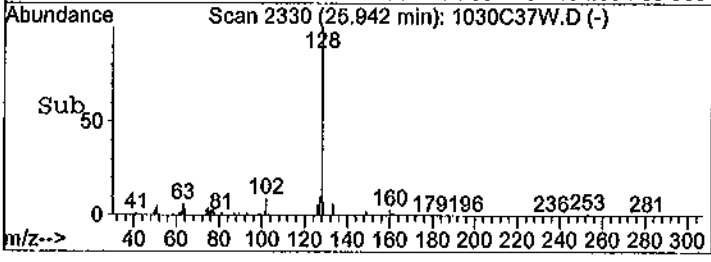
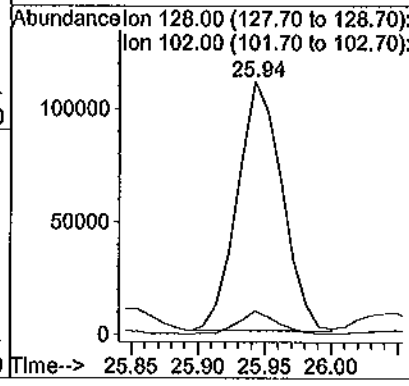
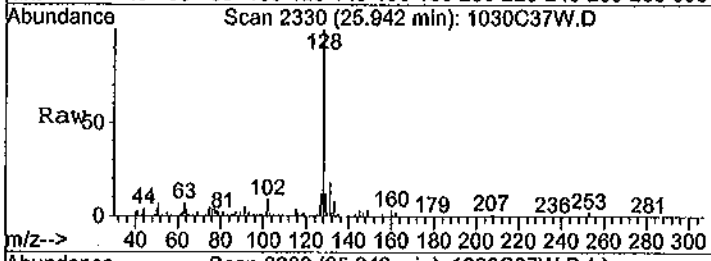
Tgt Ion	Resp	Lower	Upper
105	453460		
134	20.6	15.3	28.5





#96
 Naphthalene
 Concen: 9.11315 ppb
 RT: 25.94 min Scan# 2330
 Delta R.T. 0.01 min
 Lab File: 1030C37W.D
 Acq: 31 Oct 11 14:53

Tgt Ion:128 Resp: 258129
 Ion Ratio Lower Upper
 128 100
 102 9.2 5.1 9.5



Data File : M:\CHICO\DATA\C111030\1030C37W.D Vial: 1
 Acq On : 31 Oct 11 14:53 Operator: STC
 Sample : AY49334W13 Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 10 10:23 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1282349	25.00000	ppb	0.01
3) Chlorobenzene-D5 (IS)	18.05	TIC	1302320	25.00000	ppb	0.01
4) 1,4-Dichlorobenzene-D (IS)	22.26	TIC	1229710	25.00000	ppb	0.01

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

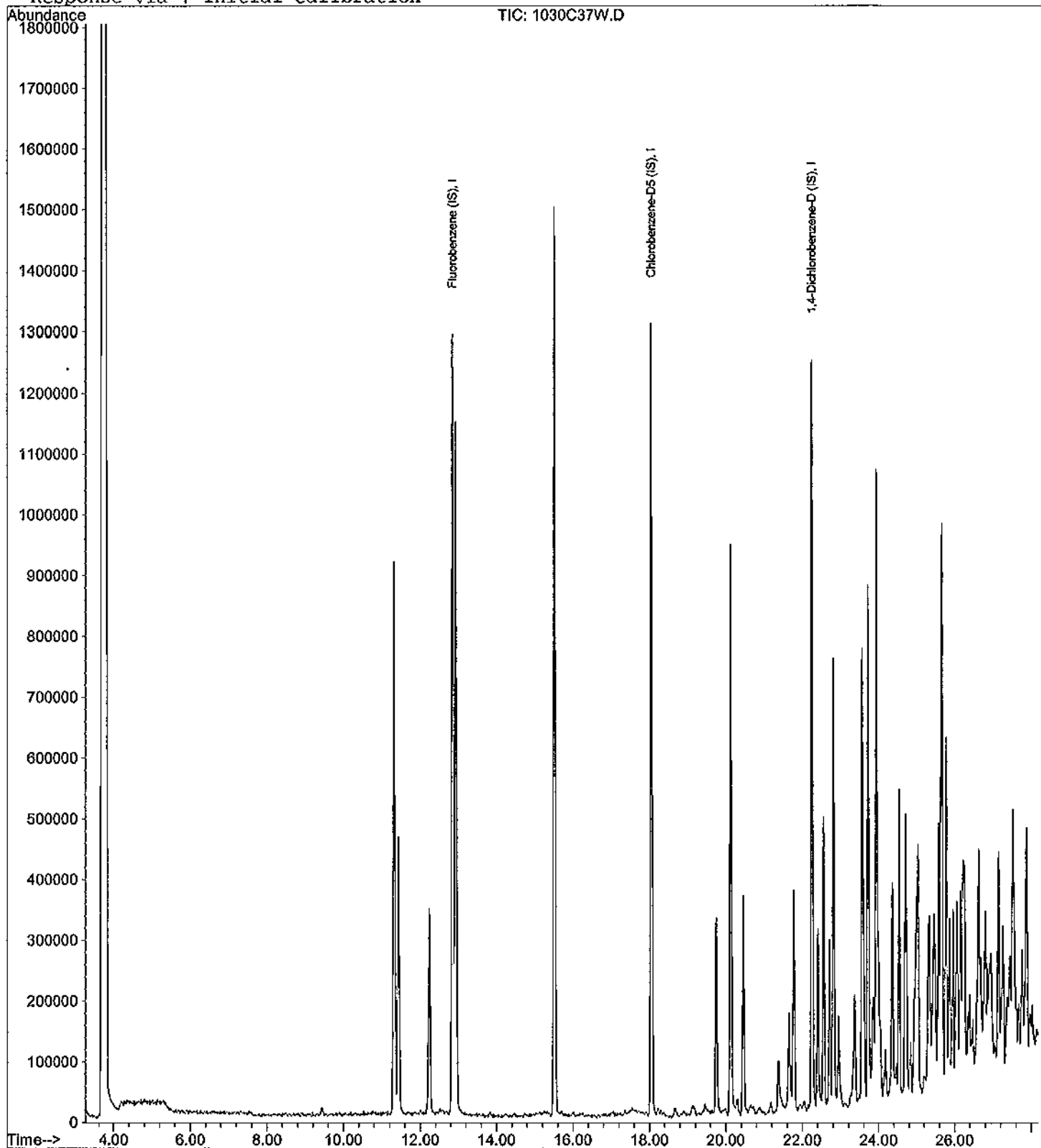
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Acq On : 31 Oct 11 14:53
Sample : AY49334W13
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 10 10:23 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



EPA 8260B VOCs + Gas Water

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacy Fineran

Project: RED HILL/1022-024

Sample ID: ES048

Sample Collection Date: 10/24/11

ARF: 66102

APPL ID: AY49335

QCG: #86RHB-111030AC-161029

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1,2-TETRACHLOROETHANE	0.26 U	1.0	0.26	0.13	ug/L	10/31/11	10/31/11
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	10/31/11	10/31/11
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	10/31/11	10/31/11
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	10/31/11	10/31/11
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	10/31/11	10/31/11
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	10/31/11	10/31/11
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	10/31/11	10/31/11
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	10/31/11	10/31/11
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	10/31/11	10/31/11
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	10/31/11	10/31/11
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	10/31/11	10/31/11
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	10/31/11	10/31/11
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	10/31/11	10/31/11
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	10/31/11	10/31/11
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	10/31/11	10/31/11
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	10/31/11	10/31/11
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	10/31/11	10/31/11
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	10/31/11	10/31/11
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	10/31/11	10/31/11
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	10/31/11	10/31/11
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	10/31/11	10/31/11
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	10/31/11	10/31/11
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	10/31/11	10/31/11
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	10/31/11	10/31/11
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	10/31/11	10/31/11
EPA 8260B	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	10/31/11	10/31/11
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	10/31/11	10/31/11
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	10/31/11	10/31/11
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	10/31/11	10/31/11
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
EPA 8260B	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	10/31/11	10/31/11
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	10/31/11	10/31/11

Quant Method: CALLW.M
Run #: 1030C35
Instrument: Chico
Sequence: C111030
Dilution Factor: 1
Initials: ARS

Printed: 12/06/11 3:06:18 PM

APPL-F1-SC-NoMC-REG MDLs

EPA 8260B VOCs + Gas Water

EnviroNet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacy Fineran

Project: RED HILL/1022-024

Sample ID: ES048

Sample Collection Date: 10/24/11

ARF: 66102

APPL ID: AY49335

QCG: #86RHB-111030AC-161029

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	10/31/11	10/31/11
EPA 8260B	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	10/31/11	10/31/11
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	10/31/11	10/31/11
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	10/31/11	10/31/11
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	10/31/11	10/31/11
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	108	70-120			%	10/31/11	10/31/11
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	102	75-120			%	10/31/11	10/31/11
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	105	85-115			%	10/31/11	10/31/11
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	99.0	85-120			%	10/31/11	10/31/11

Quant Method: CALLW.M
Run #: 1030C35
Instrument: Chico
Sequence: C111030
Dilution Factor: 1
Initials: ARS

Printed: 12/06/11 3:06:18 PM

APPL-F1-SC-NoMC-REG MDLs

Data File : M:\CHICO\DATA\C111030\1030C35W.D Vial: 1
 Acq On : 31 Oct 11 13:39 Operator: STC
 Sample : AY49335W01 Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 3 11:52 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Wed Nov 02 14:33:25 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	96	576569	25.00000	ppb	0.01
55) Chlorobenzene-D5 (IS)	18.05	117	396544	25.00000	ppb	0.01
71) 1,4-Dichlorobenzene-D (IS)	22.25	152	214592	25.00000	ppb	0.01
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.43	111	402959	26.23605	ppb	0.00
Spiked Amount				25.097		
					Recovery =	104.537%
38) 1,2-DCA-D4(S)	12.23	65	357575	26.15350	ppb	0.00
Spiked Amount				24.225		
					Recovery =	107.958%
56) Toluene-D8(S)	15.51	98	1425024	25.54008	ppb	0.01
Spiked Amount				25.808		
					Recovery =	98.960%
64) 4-Bromofluorobenzene(S)	20.12	95	520964	26.05861	ppb	0.01
Spiked Amount				25.459		
					Recovery =	102.355%

Target Compounds Qvalue

Quantitation Report

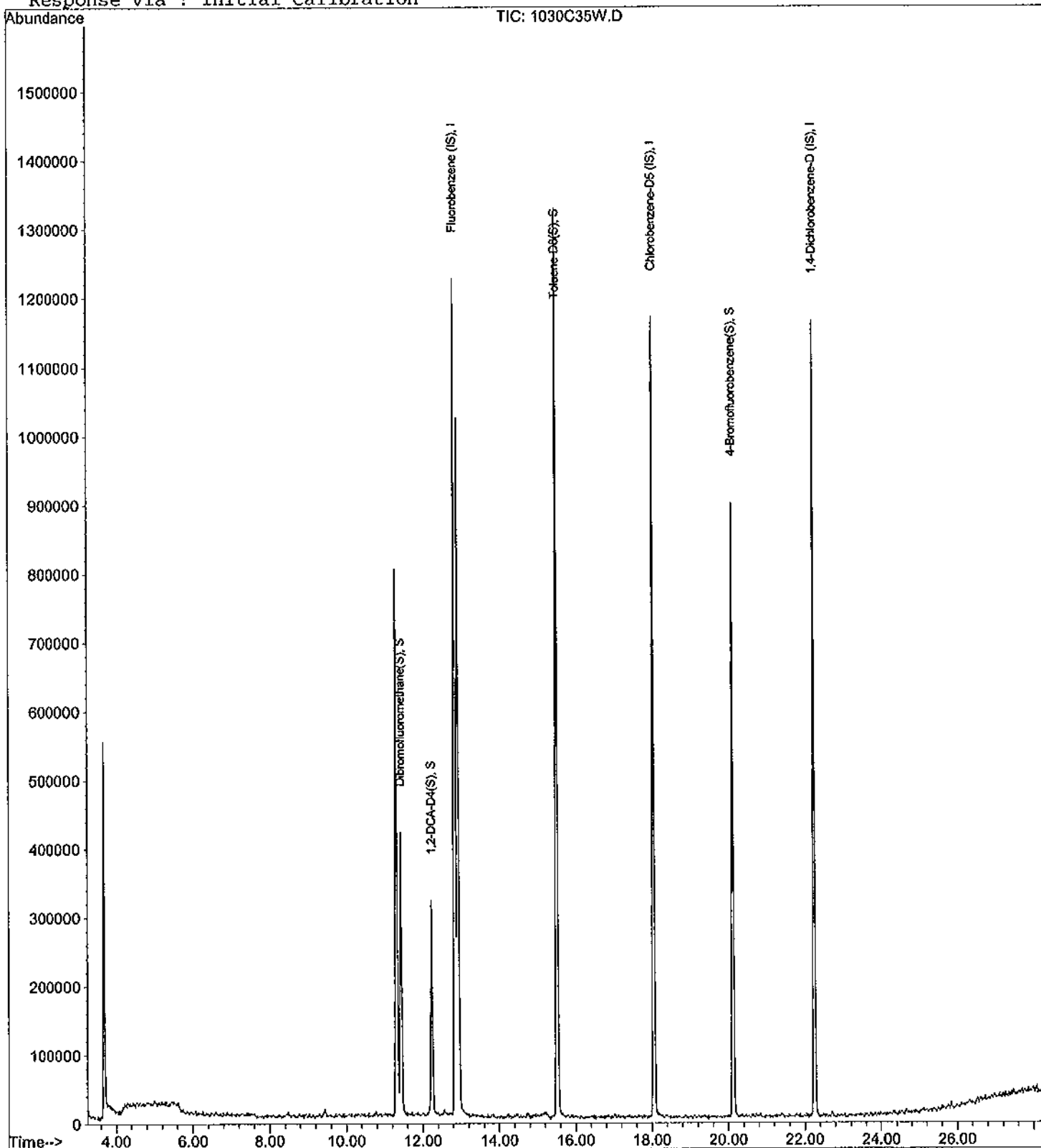
Data File : M:\CHICO\DATA\C111030\1030C35W.D
Acq On : 31 Oct 11 13:39
Sample : AY49335W01
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 11:52 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 03 10:27:07 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C35W.D Vial: 1
 Acq On : 31 Oct 11 13:39 Operator: STC
 Sample : AY49335W01 Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 10 10:23 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1215846	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.05	TIC	1162609	25.00000	ppb	0.02
4) 1,4-Dichlorobenzene-D (IS)	22.25	TIC	1158136	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

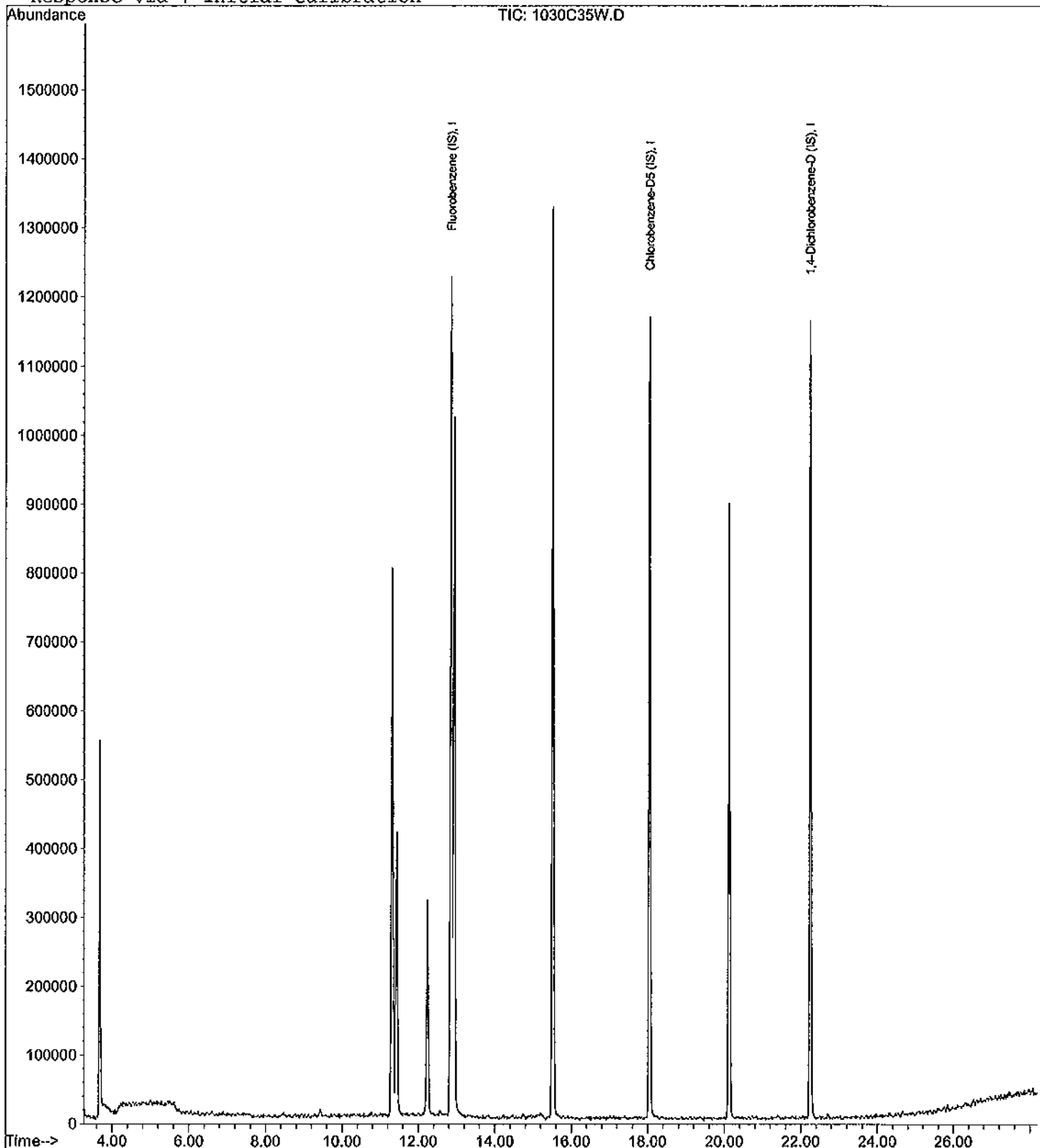
Data File : M:\CHICO\DATA\C111030\1030C35W.D
Acq On : 31 Oct 11 13:39
Sample : AY49335W01
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 10 10:23 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



EPA 8260B VOCs + Gas Water

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacy Fineran

Project: RED HILL/1022-024

Sample ID: ES049

Sample Collection Date: 10/24/11

ARF: 66102

APPL ID: AY49336

QCG: #86RHB-111030AC-161029

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1,2-TETRACHLOROETHANE	0.26 U	1.0	0.26	0.13	ug/L	10/31/11	10/31/11
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	10/31/11	10/31/11
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	10/31/11	10/31/11
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	10/31/11	10/31/11
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	10/31/11	10/31/11
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	10/31/11	10/31/11
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	10/31/11	10/31/11
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	10/31/11	10/31/11
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	10/31/11	10/31/11
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	10/31/11	10/31/11
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	10/31/11	10/31/11
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	10/31/11	10/31/11
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	10/31/11	10/31/11
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	10/31/11	10/31/11
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	10/31/11	10/31/11
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	10/31/11	10/31/11
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	10/31/11	10/31/11
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	10/31/11	10/31/11
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	10/31/11	10/31/11
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	10/31/11	10/31/11
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	10/31/11	10/31/11
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	10/31/11	10/31/11
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	10/31/11	10/31/11
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	10/31/11	10/31/11
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	10/31/11	10/31/11
EPA 8260B	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	10/31/11	10/31/11
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	10/31/11	10/31/11
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	10/31/11	10/31/11
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	10/31/11	10/31/11
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
EPA 8260B	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	10/31/11	10/31/11
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	10/31/11	10/31/11

Quant Method: CALLW.M
Run #: 1030C38
Instrument: Chico
Sequence: C111030
Dilution Factor: 1
Initials: ARS

Printed: 12/06/11 3:06:18 PM

APPL-F1-SC-NoMC-REG MDLs

EPA 8260B VOCs + Gas Water

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacy Fineran

Project: RED HILL/1022-024

Sample ID: ES049

Sample Collection Date: 10/24/11

ARF: 66102

APPL ID: AY49336

QCG: #86RHB-111030AC-161029

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	10/31/11	10/31/11
EPA 8260B	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	10/31/11	10/31/11
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	10/31/11	10/31/11
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	10/31/11	10/31/11
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	10/31/11	10/31/11
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	98.1	70-120			%	10/31/11	10/31/11
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	102	75-120			%	10/31/11	10/31/11
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	100	85-115			%	10/31/11	10/31/11
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	101	85-120			%	10/31/11	10/31/11

Quant Method: CALLW.M
Run #: 1030C38
Instrument: Chico
Sequence: C111030
Dilution Factor: 1
Initials: ARS

Printed: 12/06/11 3:06:18 PM

APPL-F1-SC-NoMC-REG MDLs

Data File : M:\CHICO\DATA\C111030\1030C38W.D Vial: 1
 Acq On : 31 Oct 11 15:31 Operator: STC
 Sample : AY49336W04 Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 3 12:04 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Wed Nov 02 14:33:25 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	12.85	96	662144	25.00000	ppb	0.02
55) Chlorobenzene-D5 (IS)	18.05	117	450969	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.26	152	251840	25.00000	ppb	0.02
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.43	111	443039	25.11762	ppb	0.00
Spiked Amount	25.097		Recovery	=	100.083%	
38) 1,2-DCA-D4(S)	12.24	65	373247	23.77157	ppb	0.02
Spiked Amount	24.225		Recovery	=	98.129%	
56) Toluene-D8(S)	15.51	98	1662069	26.19352	ppb	0.02
Spiked Amount	25.808		Recovery	=	101.494%	
64) 4-Bromofluorobenzene(S)	20.13	95	588080	25.86573	ppb	0.02
Spiked Amount	25.459		Recovery	=	101.597%	
Target Compounds						
96) Naphthalene	25.95	128	17340	0.56629	ppb	Qvalue # 89 <i>NT</i>

Quantitation Report

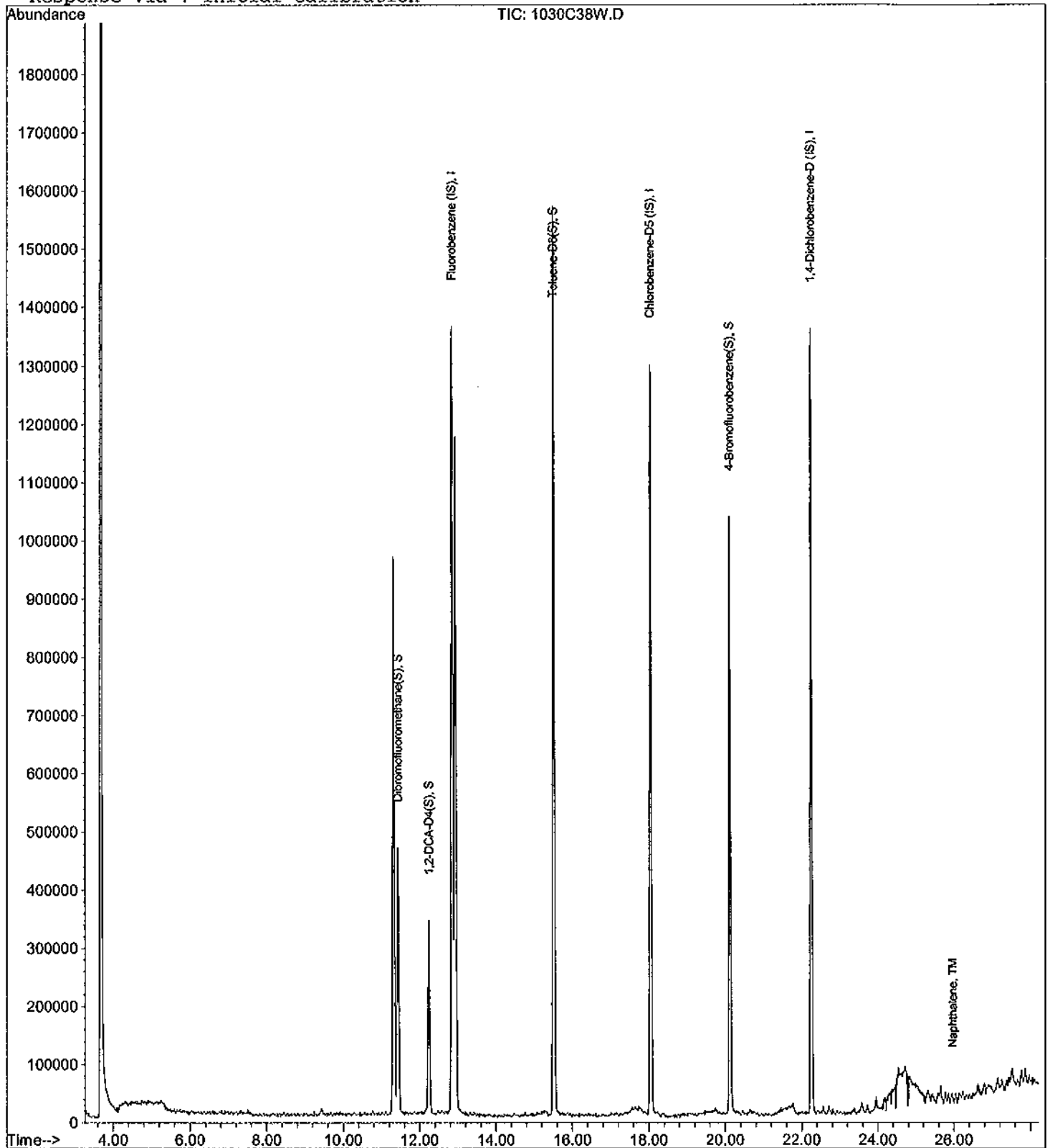
Data File : M:\CHICO\DATA\C111030\1030C38W.D
Acq On : 31 Oct 11 15:31
Sample : AY49336W04
Misc : Water 10mLw/ IS&S:10-30/10-26-11

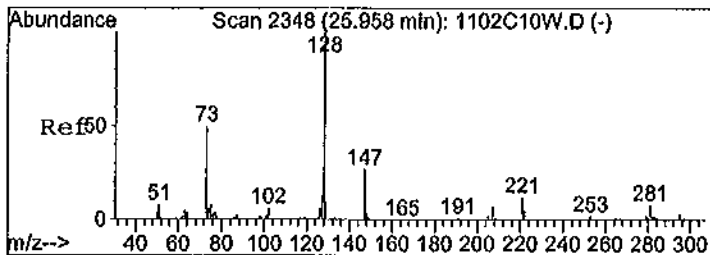
Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 12:04 2011

Quant Results File: CALLW.RES

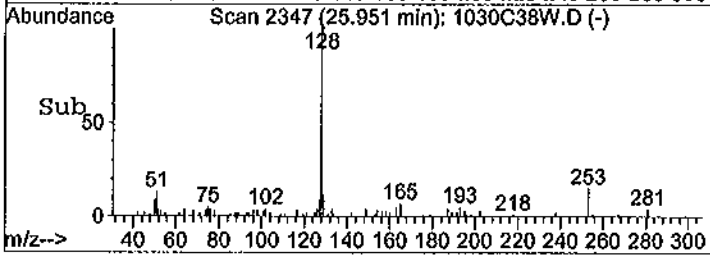
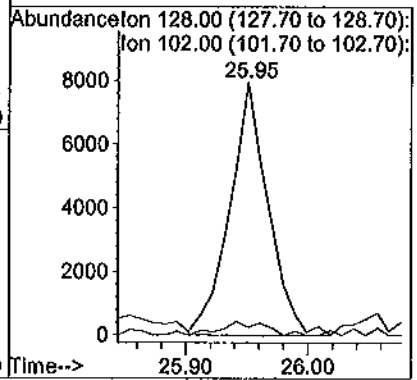
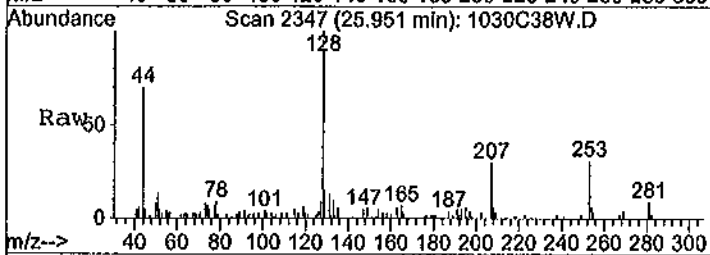
Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 03 10:27:07 2011
Response via : Initial Calibration





#96
 Naphthalene
 Concen: 0.56629 ppb
 RT: 25.95 min Scan# 2347
 Delta R.T. 0.02 min
 Lab File: 1030C38W.D
 Acq: 31 Oct 11 15:31

Tgt Ion	Resp	Lower	Upper
128	17340	100	
102	3.4	5.1	9.5#



Data File : M:\CHICO\DATA\C111030\1030C38W.D Vial: 1
 Acq On : 31 Oct 11 15:31 Operator: STC
 Sample : AY49336W04 Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 10 10:23 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1349909	25.00000	ppb	0.01
3) Chlorobenzene-D5 (IS)	18.05	TIC	1288292	25.00000	ppb	0.01
4) 1,4-Dichlorobenzene-D (IS)	22.26	TIC	1348071	25.00000	ppb	0.01

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

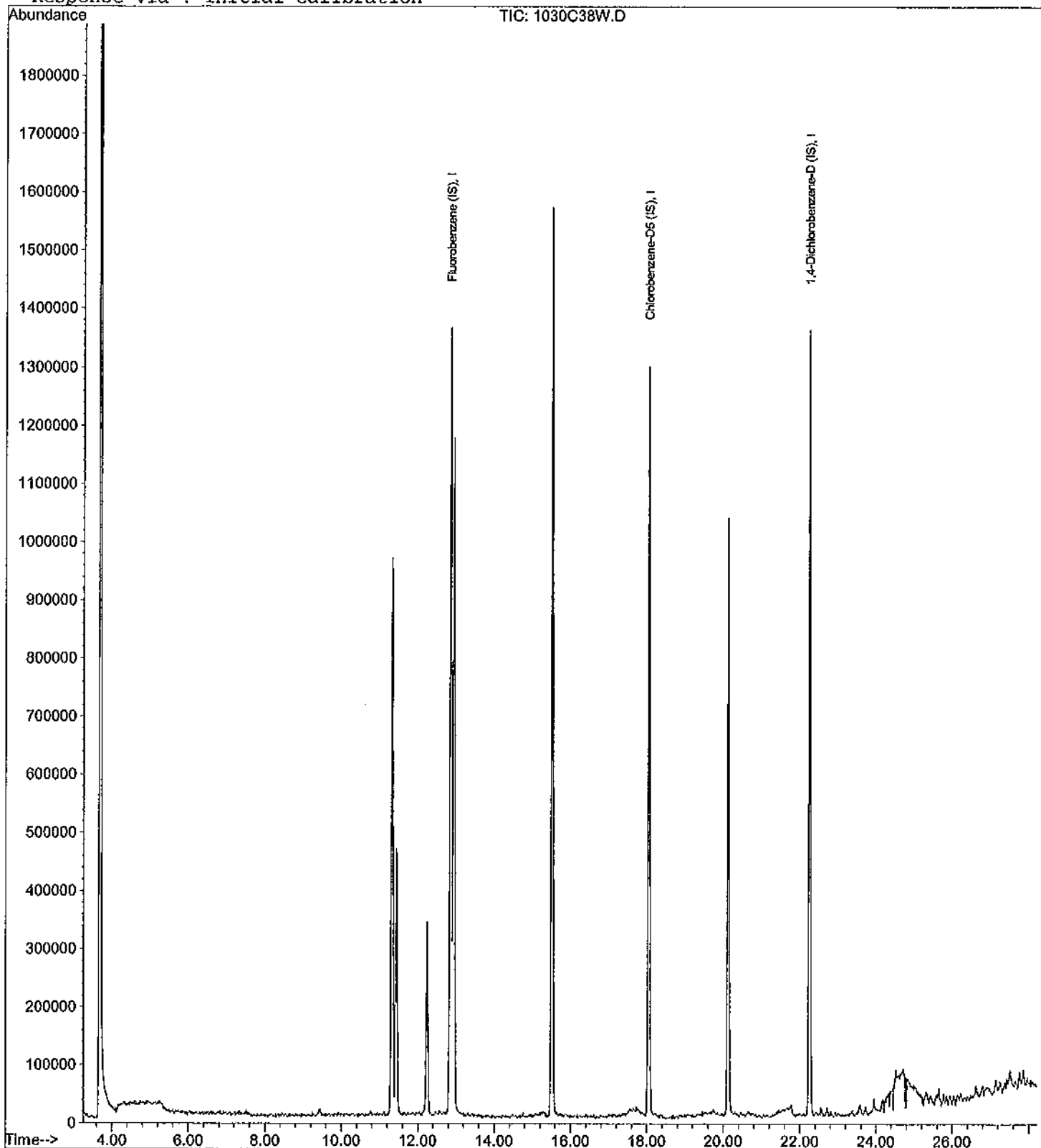
Data File : M:\CHICO\DATA\C111030\1030C38W.D
Acq On : 31 Oct 11 15:31
Sample : AY49336W04
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 10 10:23 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



**EPA METHOD 8260B
Volatile Organic Compounds
Calibration Data**

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Initial Cal. Date: 10/30/11

Matrix: _____

Instrument: Chico

Initials: _____

1030C15W.D 1030C16W.D 1030C17W.D 1030C18W.D 1030C19W.D 1030C20W.D 1030C21W.D 1030C22W.D 1030C23W.D

	Compound	0.3	0.5	1	2	5	10	20	40	100		Avg	%RSD		r	
1	I	Fluorobenzene (IS)	ISTD													
2	TM	Dichlorodifluoromethane	0.9991	0.9593	0.9680	0.8471	0.8830	0.9152	0.9504	0.9592	0.8084	0.92	6.8	TM		
3	TM	Freon 114	0.5029	0.5470	0.6167	0.5799	0.5567	0.6260	0.6223	0.6040	0.5364	0.58	7.6	TM		
4	TM**	Chloromethane	1.389	1.171	1.239	1.184	1.061	1.077	1.079	1.076	0.9963	1.1	10	TM**		
5	TM*	Vinyl chloride		0.8227	0.9389	0.7274	0.8810	0.7956	0.7782	0.6322	0.5319	0.76	17	TM*		
6	TML	1,3-Butadiene												TML		
7	TM	Bromomethane	0.5647	0.5370	0.4933	0.6483	0.5131	0.5331	0.5691	0.5732	0.5561	0.55	8.0	TM		
8	TM	Chloroethane		0.7481	0.7782	0.6360	0.6082	0.5955	0.5730	0.5758	0.5302	0.63	14	TM		
9	TM	Dichlorofluoromethane	1.806	1.879	1.897	1.843	1.787	1.725	1.664	1.589	1.493	1.7	7.8	TM		
10	TM	Trichlorofluoromethane	1.219	0.9410	1.059	1.063	1.038	1.037	1.027	1.027	0.9025	1.0	8.5	TM		
11		Acetonitrile	0.0248	0.0305	0.0278	0.0270	0.0288	0.0267	0.0258	0.0269	0.0283	0.03	6.1			
12	TM	Acrolein	0.0160	0.0133	0.0127	0.0117	0.0124	0.0118	0.0112	0.0121	0.0115	0.01	12	TM		
13	TML	Acetone	0.2927	0.4962	0.2742	0.1724	0.1160	0.0970	0.0807	0.0738	0.0705	0.19	77	TML	1.000	
14	TML	Freon-113		0.2687	0.6640	0.6219	0.6334	0.6298	0.6085	0.6058	0.5403	0.57	22	TML	0.999	
15	TM*	1,1-DCE	0.8684	0.8302	0.7551	0.7075	0.7021	0.6844	0.6445	0.6344	0.5970	0.71	13	TM*		
16	TM	t-Butanol	0.0032	0.0028	0.0031	0.0037	0.0033	0.0035	0.0031	0.0036	0.0043	0.00	13	TM		
17	TML	Methyl Acetate		0.5858	0.4123	0.3223	0.1877	0.2224	0.2002	0.2076	0.2032	0.29	48	TML	1.000	
18	TML	Iodomethane			0.1817	0.2265	0.2408	0.2984	0.3981	0.4959	0.6090	0.35	45	TML	0.997	
19	TML	Acrylonitrile		0.0466	0.0701	0.0979	0.0824	0.0851	0.0770	0.0761	0.0758	0.08	19	TML	1.000	
20	TM	Methylene chloride		0.8304	0.7142	0.7211	0.6635	0.6652	0.6531	0.6094	0.5892	0.68	11	TM		
21	TM	Carbon disulfide	0.8377	0.7169	0.7402	0.7186	0.6675	0.6811	0.6507	0.6311	0.5977	0.69	10	TM		
22	TM	Methyl t-butyl ether (MtBE)	1.160	1.072	1.146	1.130	1.059	1.101	1.037	1.041	0.9630	1.1	5.8	TM		
23	TM	Trans-1,2-DCE	0.9275	0.9146	0.8717	0.8807	0.8240	0.8200	0.7565	0.7483	0.7085	0.83	9.3	TM		
24	TM	Diisopropyl Ether	2.775	2.360	2.465	2.461	2.400	2.425	2.261	2.245	2.073	2.4	8.1	TM		
25	TM**	1,1-DCA	1.448	1.345	1.449	1.466	1.510	1.465	1.402	1.378	1.267	1.4	5.3	TM**		
26	TML	Vinyl Acetate		1.048	0.7027	0.5800	0.5004	0.4421	0.4155	0.4257	0.3841	0.56	40	TML	0.999	
27	TM	Ethyl tert Butyl Ether	1.698	1.549	1.596	1.761	1.670	1.751	1.601	1.569	1.460	1.6	6.1	TM		
28	TML	MEK (2-Butanone)		0.5665	0.4588	0.3602	0.2874	0.2964	0.2742	0.2705		0.36	32	TML	1.000	
29	TM	Cis-1,2-DCE	1.025	0.9874	0.8510	0.8618	0.8314	0.8432	0.7892	0.7602	0.7089	0.85	12	TM		
30	TM	2,2-Dichloropropane	1.246	1.113	0.9950	1.048	1.020	0.9872	0.9664	0.9254	0.8189	1.0	12	TM		
31	TM*	Chloroform	1.473	1.359	1.352	1.398	1.420	1.399	1.327	1.309	1.208	1.4	5.6	TM*		
32	TM	Bromochloromethane	0.2100	0.2283	0.2743	0.2327	0.2615	0.2451	0.2386	0.2267	0.2148	0.24	8.8	TM		
33	S	Dibromofluoromethane(S)	0.6664	0.6677	0.6754	0.6906	0.6830	0.6822	0.6563	0.6514	0.6207	0.67	3.2	S		
34	TM	1,1,1-TCA	1.307	1.226	1.269	1.241	1.235	1.281	1.263	1.210	1.104	1.2	4.7	TM		
35	TM	Cyclohexane	1.116	1.365	1.215	1.216	1.106	1.144	1.092	1.114	1.000	1.2	8.9	TM		

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 10/30/11
Instrument: Chico

Initials: _____

		Compound	0.3	0.5	1	2	5	10	20	40	100		Avg	%RSD		r
36	TM	1,1-Dichloropropene	1.089	1.043	1.238	1.061	1.080	1.064	1.039	0.9929	0.9342		1.1	7.8	TM	
37	TML	2,2,4-Trimethylpentane		4.510	2.958	2.198	1.929	1.816	1.761	1.722	1.632		2.3	42	TML	1.000
38	S	1,2-DCA-D4(S)	0.5562	0.6935	0.6364	0.6275	0.6073	0.5850	0.5554	0.5514	0.5227		0.59	9.0	S	
39	TM	Carbon Tetrachloride	0.7745	0.7961	0.7551	0.8397	0.8717	0.9031	0.9401	0.9166	0.8718		0.85	7.6	TM	
40	TM	Tert Amyl Methyl Ether	1.206	1.355	1.238	1.270	1.190	1.245	1.179	1.154	1.119		1.2	5.7	TM	
41	TM	1,2-DCA	0.8312	0.6440	0.6792	0.7198	0.7101	0.7316	0.6883	0.6614	0.6203		0.70	8.8	TM	
42	TM	Benzene	3.278	3.031	3.234	3.139	3.058	3.078	2.926	2.893	2.778		3.0	5.3	TM	
43	TM	TCE	0.7582	0.8575	0.9261	0.9155	0.8745	0.8692	0.8308	0.8139	0.7474		0.84	7.4	TM	
44	TM	2-Pentanone	0.1621	0.1829	0.1696	0.1839	0.1797	0.1849	0.1709	0.1792	0.1751		0.18	4.4	TM	
45	TM*	1,2-Dichloropropane	0.6688	0.7192	0.7502	0.6580	0.7308	0.7195	0.6791	0.6772	0.6288		0.69	5.7	TM*	
46	TM	Bromodichloromethane	0.7189	0.7057	0.8148	0.7719	0.8069	0.8660	0.8196	0.8390	0.7766		0.79	6.7	TM	
47	TM	Methyl Cyclohexane	1.113	1.125	0.9652	0.9330	0.9573	1.003	0.9550	0.9420	0.8802		0.99	8.3	TM	
48	TM	Dibromomethane	0.2413	0.2669	0.2816	0.2846	0.2915	0.3053	0.2877	0.2711	0.2623		0.28	6.8	TM	
49	TM	2-Chloroethyl vinyl ether	0.1532	0.1448	0.1599	0.1939	0.1910	0.1855	0.1751	0.1885	0.1924		0.18	11	TM	
50	TM	1-Bromo-2-chloroethane	0.6355	0.5704	0.5860	0.6008	0.6129	0.6029	0.5729	0.5868	0.5488		0.59	4.3	TM	
51	TM	Cis-1,3-Dichloropropene	0.7822	0.6621	0.7733	0.7420	0.7627	0.7998	0.7723	0.7726	0.7216		0.75	5.5	TM	
52	TM*	Toluene	3.411	3.085	2.935	3.035	3.024	3.066	2.913	2.874	2.698		3.0	6.5	TM*	
53	TM	Trans-1,3-Dichloropropene	0.5191	0.5428	0.4995	0.5430	0.5365	0.5848	0.5511	0.5622	0.5483		0.54	4.5	TM	
54	TM	1,1,2-TCA	0.3181	0.2834	0.2608	0.3010	0.2945	0.3288	0.2891	0.2919	0.2665		0.29	7.5	TM	
55	I	Chlorobenzene-D5 (IS)	ISTD													
56	S	Toluene-D8(S)	3.825	3.742	3.592	3.490	3.642	3.496	3.501	3.233	3.138		3.5	6.3	S	
57	TM	1,2-EDB	0.5186	0.3944	0.4412	0.4259	0.5017	0.5094	0.5156	0.5003	0.4752		0.48	9.4	TM	
58	TM	Tetrachloroethene	1.569	1.513	1.319	1.276	1.308	1.257	1.237	1.102	0.9877		1.3	14	TM	
59	TM	1-Chlorohexane	1.590	1.521	1.436	1.470	1.527	1.492	1.526	1.416	1.343		1.5	5.0	TM	
60	TM	1,1,1,2-Tetrachloroethane	0.6133	0.6996	0.7082	0.7484	0.8608	0.9066	0.9437	0.9002	0.8611		0.80	14	TM	
61	TM	m&p-Xylene	2.262	1.857	1.843	1.755	1.899	1.909	1.977	1.824	1.763		1.9	8.1	TM	
62	TM	o-Xylene	1.911	1.844	1.639	1.684	1.946	1.920	1.973	1.805	1.714		1.8	6.7	TM	
63	TM	Styrene	2.668	2.626	2.667	2.614	2.923	2.903	3.005	2.787	2.612		2.8	5.5	TM	
64	S	4-Bromofluorobenzene(S)	1.386	1.298	1.312	1.224	1.272	1.281	1.253	1.176	1.141		1.3	5.8	S	
65	TM	2-Hexanone		0.2681	0.1979	0.2383	0.2161	0.2363	0.2325	0.2267	0.2142		0.23	9.1	TM	
66	TM	1,3-Dichloropropane	0.9515	0.9439	0.8870	0.9272	0.9571	1.037	0.9690	0.9322	0.8392		0.94	5.8	TM	
67	TM	Dibromochloromethane		0.4957	0.5504	0.5206	0.6049	0.6702	0.6987	0.6794	0.6801		0.61	13	TM	
68	TM**	Chlorobenzene	3.339	2.652	2.608	2.538	2.763	2.780	2.740	2.590	2.437		2.7	9.5	TM**	
69	TM*	Ethylbenzene	5.842	4.934	5.056	4.770	5.229	5.219	5.128	4.773	4.573		5.1	7.3	TM*	
70	TM**L	Bromoform		0.1505	0.1690	0.2072	0.2509	0.2961	0.3266	0.3337	0.3518		0.26	30	TM**L	1.000

Data File : M:\CHICO\DATA\C111030\1030C15W.D
 Acq On : 30 Oct 11 23:28
 Sample : Voc Std 10-30-11@0.3ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.83	96	559104	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.03	117	374592	25.00000	ppb	-0.01
71) 1,4-Dichlorobenzene-D (IS)	22.24	152	198336	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.41	111	8942	0.60039	ppb	-0.01
Spiked Amount	25.097		Recovery	=	2.391%	
38) 1,2-DCA-D4(S)	12.23	65	7464	0.56298	ppb	0.00
Spiked Amount	24.225		Recovery	=	2.324%	
56) Toluene-D8(S)	15.50	98	34391	0.65250	ppb	0.00
Spiked Amount	25.808		Recovery	=	2.526%	
64) 4-Bromofluorobenzene(S)	20.11	95	12464	0.65998	ppb	0.00
Spiked Amount	25.459		Recovery	=	2.592%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.07	85	6703	0.32540	ppb #	80
3) Freon 114	4.33	85	3374	0.26153	ppb #	70
4) Chloromethane	4.55	50	9320	0.36511	ppb #	94
5) Vinyl chloride	4.83	62	6233	0.36505	ppb #	76
6) 1,3-Butadiene	4.86	54	426	8.92736	ppb #	41
7) Bromomethane	5.72	94	3789	0.30570	ppb #	70
8) Chloroethane	5.92	64	6243	0.44265	ppb #	55
9) Dichlorofluoromethane	6.01	67	12120	0.31081	ppb #	86
10) Trichlorofluoromethane	6.51	101	8177	0.35336	ppb #	78
11) Acetonitrile	7.67	41	8307	13.56274	ug/l	100
12) Acrolein	7.18	56	5382	19.20236	ppb #	71
13) Acetone	7.26	43	1964	1.22606	ppb #	75
14) Freon-113	7.48	101	3974	-0.83183	ppb #	68
15) 1,1-DCE	7.68	96	5826	0.36499	ppb #	38
16) t-Butanol	7.78	59	1058	13.95861	ppb #	96
17) Methyl Acetate	8.17	43	2286	-0.18237	ppb #	87
18) Iodomethane	8.17	142	479	3.85678	ppb #	37
19) Acrylonitrile	8.56	53	560	-0.04894	ppb #	5
20) Methylene chloride	8.46	84	7036	0.46214	ppb #	60
21) Carbon disulfide	8.57	76	5620	0.36236	ppb #	97
22) Methyl t-butyl ether (MtBE)	8.91	73	7781	0.32251	ppb #	64
23) Trans-1,2-DCE	9.09	96	6223	0.38166	ppb #	92
24) Diisopropyl Ether	9.75	45	18616	0.34902	ppb #	73
25) 1,1-DCA	9.78	63	9717	0.30719	ppb #	95
26) Vinyl Acetate	9.43	43	9166	-0.47709	ppb #	81
27) Ethyl tert Butyl Ether	10.45	59	11390	0.31279	ppb #	93
28) MEK (2-Butanone)	10.45	43	4667	0.10206	ppb #	76
29) Cis-1,2-DCE	10.80	96	6876	0.36134	ppb #	67
30) 2,2-Dichloropropane	10.79	77	8357	0.36882	ppb #	95
31) Chloroform	11.08	83	9885	0.32484	ppb #	86
32) Bromochloromethane	11.31	128	1409	0.26596	ppb #	1
34) 1,1,1-TCA	11.83	97	8769	0.31687	ppb #	72
35) Cyclohexane	11.98	56	7488	0.29062	ppb #	74
36) 1,1-Dichloropropene	12.10	75	7308	0.30819	ppb #	86
37) 2,2,4-Trimethylpentane	12.17	57	48085	0.17131	ppb #	87
39) Carbon Tetrachloride	12.31	117	5196	0.27267	ppb #	87

(#) = qualifier out of range (m) = manual integration
 1030C15W.D CALLW.M Fri Dec 02 11:20:38 2011

Data File : M:\CHICO\DATA\C111030\1030C15W.D
 Acq On : 30 Oct 11 23:28
 Sample : Voc Std 10-30-11@0.3ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue	
40) Tert Amyl Methyl Ether	12.35	73	8093	0.29724	ppb	#	82
41) 1,2-DCA	12.36	62	5577	0.35705	ppb	#	79
42) Benzene	12.50	78	21995	0.32285	ppb		99
43) TCE	13.53	95	5087	0.26961	ppb		88
44) 2-Pentanone	13.19	43	54377	13.77755	ppb		91
45) 1,2-Dichloropropane	13.76	63	4487	0.28977	ppb	#	81
46) Bromodichloromethane	14.11	83	4823	0.27263	ppb	#	84
47) Methyl Cyclohexane	13.81	83	7465	0.33857	ppb		81
48) Dibromomethane	14.15	93	1619	0.26143	ppb	#	56
49) 2-Chloroethyl vinyl ether	14.57	63	1028	0.26114	ppb	#	71
50) 1-Bromo-2-chloroethane	14.89	63	4264	0.32272	ppb	#	76
51) Cis-1,3-Dichloropropene	15.00	75	5248	0.31110	ppb		96
52) Toluene	15.64	91	22887	0.34061	ppb		88
53) Trans-1,3-Dichloropropene	15.80	75	3483	0.28679	ppb	#	72
54) 1,1,2-TCA	16.08	83	2134	0.32602	ppb		86
57) 1,2-EDB	17.33	107	2331	0.32696	ppb	#	72
58) Tetrachloroethene	16.79	164	7051	0.36612	ppb	#	74
59) 1-Chlorohexane	17.71	91	7147	0.32226	ppb	#	70
60) 1,1,1,2-Tetrachloroethane	18.16	131	2757	0.22867	ppb		83
61) m&p-Xylene	18.35	106	20335	0.71474	ppb		85
62) o-Xylene	19.11	106	8588	0.31386	ppb		68
63) Styrene	19.12	104	11993	0.29039	ppb		98
65) 2-Hexanone	16.12	43	2535	0.73958	ppb	#	73
66) 1,3-Dichloropropane	16.49	76	4277	0.30423	ppb		96
67) Dibromochloromethane	16.98	129	1907	0.20779	ppb	#	39
68) Chlorobenzene	18.10	112	15008	0.36875	ppb	#	68
69) Ethylbenzene	18.21	91	26259	0.34648	ppb		89
70) Bromoform	19.63	173	532	1.23415	ppb	#	37
72) MIBK (methyl isobutyl keto)	14.68	43	7070	1.25392	ppb		81
73) Isopropylbenzene	19.72	105	23083	0.32111	ppb	#	81
74) 1,1,2,2-Tetrachloroethane	19.88	83	1704	0.28318	ppb	#	79
75) 1,2,3-Trichloropropane	20.14	110	346	0.59881	ppb	#	25
76) t-1,4-Dichloro-2-Butene	20.24	53	170	0.12459	ppb	#	62
77) Bromobenzene	20.49	156	5215	0.31451	ppb	#	54
78) n-Propylbenzene	20.44	91	25363	0.29576	ppb		97
79) 4-Ethyltoluene	20.63	105	21128	0.35603	ppb		93
80) 2-Chlorotoluene	20.74	91	16704	0.29411	ppb		87
81) 1,3,5-Trimethylbenzene	20.72	105	18391	0.31501	ppb		98
82) 4-Chlorotoluene	20.81	91	16002	0.32720	ppb	#	74
83) Tert-Butylbenzene	21.36	119	18557	0.29358	ppb		92
84) 1,2,4-Trimethylbenzene	21.41	105	21930	0.35965	ppb		91
85) Sec-Butylbenzene	21.75	105	22099	0.29154	ppb		86
86) p-Isopropyltoluene	21.99	119	19428	0.29923	ppb		97
87) Benzyl Chloride	22.41	91	3043	0.35307	ppb	#	69
88) 1,3-DCB	22.12	146	11266	0.33224	ppb		92
89) 1,4-DCB	22.29	146	10573	0.33594	ppb		95
90) Hexachloroethane	23.59	117	857	2.03197	ppb	#	50
91) n-Butylbenzene	22.70	91	19217	0.33934	ppb		91
92) 1,2-DCB	22.92	146	8586	0.31833	ppb	#	78
93) 1,2-Dibromo-3-chloropropan	24.14	155	141	1.41683	ppb	#	27
94) 1,2,4-Trichlorobenzene	25.58	180	5945	0.30417	ppb	#	86

(#) = qualifier out of range (m) = manual integration
 1030C15W.D CALLW.M Fri Dec 02 11:20:39 2011

Data File : M:\CHICO\DATA\C111030\1030C15W.D Vial: 1
 Acq On : 30 Oct 11 23:28 Operator: STC
 Sample : Voc Std 10-30-11@0.3ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) Hexachlorobutadiene	25.83	223	1530	0.43087	ppb #	68
96) Naphthalene	25.92	128	7576	0.31416	ppb #	79
97) 1,2,3-Trichlorobenzene	26.29	180	4008	0.27110	ppb	85

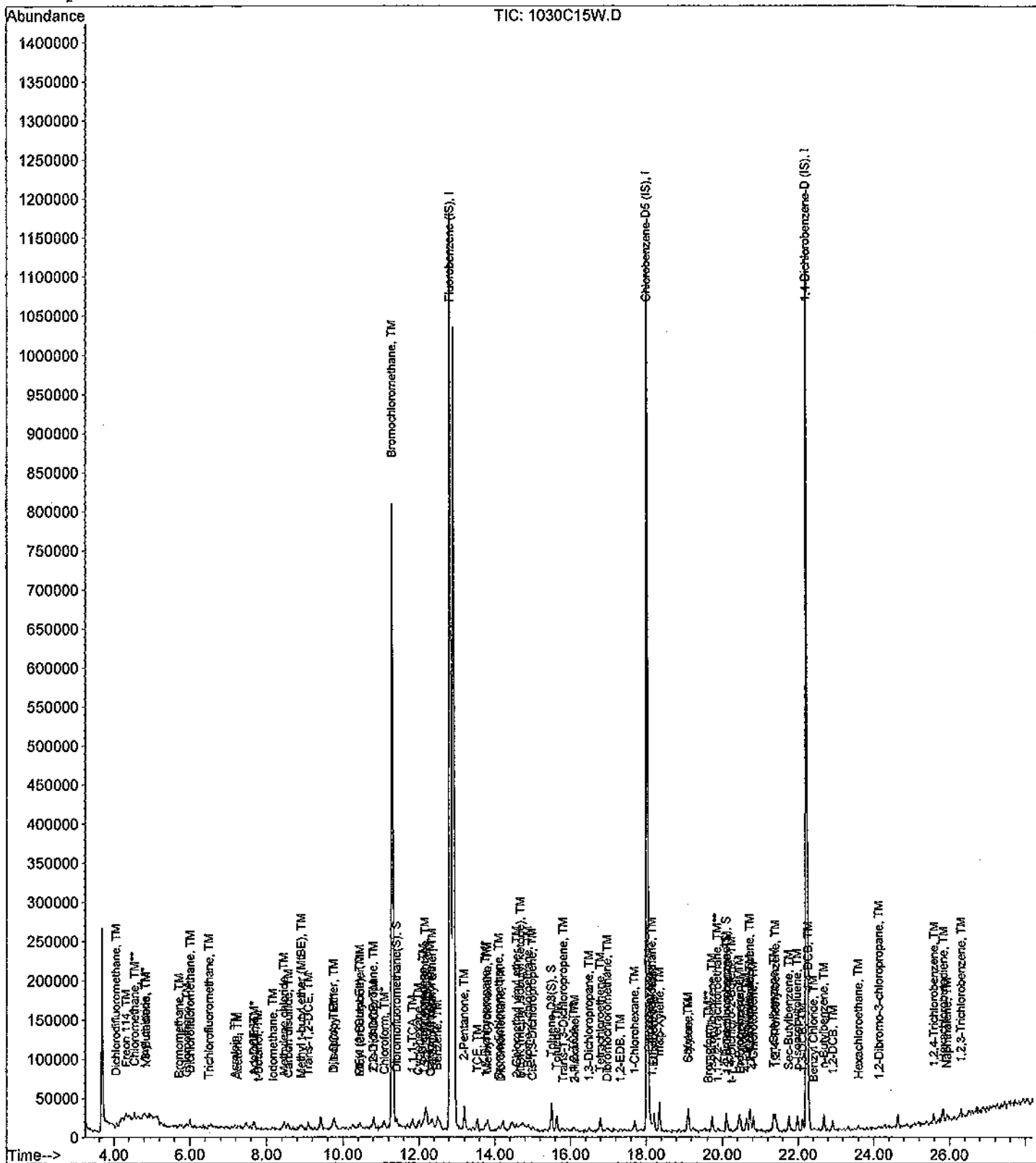
Data File : M:\CHICO\DATA\C111030\1030C15W.D
Acq On : 30 Oct 11 23:28
Sample : Voc Std 10-30-11@0.3ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Dec 02 11:18:49 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C16W.D Vial: 1
 Acq On : 31 Oct 11 00:11 Operator: STC
 Sample : Voc Std 10-30-11@0.5ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	12.84	96	564160	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.03	117	384000	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.24	152	199104	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane (S)	11.43	111	15067	1.00257	ppb	0.00
Spiked Amount	25.097		Recovery	=	3.996%	
38) 1,2-DCA-D4 (S)	12.23	65	15649	1.16976	ppb	0.00
Spiked Amount	24.225		Recovery	=	4.830%	
56) Toluene-D8 (S)	15.51	98	57480	1.06384	ppb	0.01
Spiked Amount	25.808		Recovery	=	4.123%	
64) 4-Bromofluorobenzene (S)	20.10	95	19938	1.02988	ppb	0.00
Spiked Amount	25.459		Recovery	=	4.046%	
Target Compounds						
2) Dichlorodifluoromethane	4.07	85	10824	0.52075	ppb	95
3) Freon 114	4.33	85	6172	0.47412	ppb	98
4) Chloromethane	4.55	50	13218	0.51317	ppb #	72
5) Vinyl chloride	4.81	62	9283	0.53880	ppb #	69
6) 1,3-Butadiene	4.79	54	547	11.36033	ppb	97
7) Bromomethane	5.73	94	6059	0.48447	ppb	87
8) Chloroethane	5.91	64	8441	0.59313	ppb #	74
9) Dichlorofluoromethane	6.02	67	21197	0.53871	ppb #	80
10) Trichlorofluoromethane	6.51	101	10617	0.45468	ppb	86
11) Acetonitrile	7.65	41	17187	27.80953	ug/l	100
12) Acrolein	7.15	56	7488	26.47690	ppb	95
13) Acetone	7.29	43	5599	3.46393	ppb	93
14) Freon-113	7.43	101	3032	-0.91166	ppb #	70
15) 1,1-DCE	7.68	96	9367	0.58157	ppb	86
16) t-Butanol	7.75	59	1553	20.30572	ppb	100
17) Methyl Acetate	8.18	43	6610	0.76232	ppb #	81
18) Iodomethane	8.16	142	1888	3.95744	ppb #	59
19) Acrylonitrile	8.56	53	526	-0.07185	ppb #	71
20) Methylene chloride	8.48	84	9369	0.60986	ppb	86
21) Carbon disulfide	8.56	76	8089	0.51688	ppb	94
22) Methyl t-butyl ether (MtBE)	8.89	73	12097	0.49691	ppb	93
23) Trans-1,2-DCE	9.08	96	10320	0.62725	ppb	75
24) Diisopropyl Ether	9.74	45	26624	0.49469	ppb #	77
25) 1,1-DCA	9.79	63	15171	0.47532	ppb #	86
26) Vinyl Acetate	9.43	43	11823	-0.17906	ppb #	82
27) Ethyl tert Butyl Ether	10.44	59	17474	0.47557	ppb	99
28) MEK (2-Butanone)	10.44	43	6392	0.38220	ppb #	76
29) Cis-1,2-DCE	10.81	96	11141	0.58022	ppb #	62
30) 2,2-Dichloropropane	10.83	77	12554	0.54909	ppb	96
31) Chloroform	11.09	83	15337	0.49949	ppb	92
32) Bromochloromethane	11.30	128	2576	0.48189	ppb #	33
34) 1,1,1-TCA	11.83	97	13833	0.49538	ppb #	82
35) Cyclohexane	11.99	56	15403	0.59245	ppb	78
36) 1,1-Dichloropropene	12.10	75	11774	0.49209	ppb #	84
37) 2,2,4-Trimethylpentane	12.18	57	50886	0.23590	ppb	93
39) Carbon Tetrachloride	12.29	117	8982	0.46713	ppb	86

(#) = qualifier out of range (m) = manual integration
 1030C16W.D CALLW.M Fri Dec 02 11:20:44 2011

Data File : M:\CHICO\DATA\C111030\1030C16W.D Vial: 1
 Acq On : 31 Oct 11 00:11 Operator: STC
 Sample : Voc Std 10-30-11@0.5ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue	
40) Tert Amyl Methyl Ether	12.34	73	15291	0.55657	ppb	#	82
41) 1,2-DCA	12.36	62	7266	0.46101	ppb		99
42) Benzene	12.50	78	34203	0.49755	ppb	#	86
43) TCE	13.53	95	9675	0.50818	ppb	#	76
44) 2-Pentanone	13.21	43	103205	25.91480	ppb		91
45) 1,2-Dichloropropane	13.77	63	8115	0.51936	ppb		98
46) Bromodichloromethane	14.11	83	7962	0.44603	ppb	#	98
47) Methyl Cyclohexane	13.81	83	12697	0.57069	ppb		99
48) Dibromomethane	14.16	93	3011	0.48185	ppb	#	68
49) 2-Chloroethyl vinyl ether	14.58	63	1634	0.41135	ppb	#	59
50) 1-Bromo-2-chloroethane	14.88	63	6436	0.48274	ppb	#	66
51) Cis-1,3-Dichloropropene	15.00	75	7471	0.43891	ppb	#	75
52) Toluene	15.63	91	34808	0.51338	ppb		87
53) Trans-1,3-Dichloropropene	15.80	75	6124	0.49974	ppb	#	83
54) 1,1,2-TCA	16.08	83	3198	0.48419	ppb	#	78
57) 1,2-EDB	17.33	107	3029	0.41446	ppb	#	80
58) Tetrachloroethene	16.78	164	11617	0.58843	ppb		81
59) 1-Chlorohexane	17.70	91	11679	0.51371	ppb		93
60) 1,1,1,2-Tetrachloroethane	18.16	131	5373	0.43472	ppb		80
61) m&p-Xylene	18.36	106	28523	0.97798	ppb		92
62) o-Xylene	19.10	106	14161	0.50486	ppb		88
63) Styrene	19.13	104	20171	0.47643	ppb		89
65) 2-Hexanone	16.11	43	2059	0.58599	ppb	#	78
66) 1,3-Dichloropropane	16.50	76	7249	0.50300	ppb		84
67) Dibromochloromethane	16.95	129	3807	0.40465	ppb		74
68) Chlorobenzene	18.11	112	20370	0.48823	ppb	#	81
69) Ethylbenzene	18.21	91	37896	0.48777	ppb		98
70) Bromoform	19.62	173	1156	1.34654	ppb	#	37
72) MIBK (methyl isobutyl keto)	14.67	43	3016	0.53285	ppb	#	51
73) Isopropylbenzene	19.73	105	35995	0.49881	ppb		90
74) 1,1,2,2-Tetrachloroethane	19.89	83	2684	0.44432	ppb	#	86
75) 1,2,3-Trichloropropane	20.15	110	430	0.71972	ppb	#	57
76) t-1,4-Dichloro-2-Butene	20.21	53	1066	0.77827	ppb	#	42
77) Bromobenzene	20.47	156	9129	0.54844	ppb	#	86
78) n-Propylbenzene	20.44	91	42985	0.49932	ppb		89
79) 4-Ethyltoluene	20.63	105	29592	0.49673	ppb		84
80) 2-Chlorotoluene	20.73	91	31711	0.55619	ppb	#	79
81) 1,3,5-Trimethylbenzene	20.71	105	29710	0.50692	ppb		88
82) 4-Chlorotoluene	20.82	91	23555	0.47979	ppb		86
83) Tert-Butylbenzene	21.36	119	33054	0.52092	ppb		95
84) 1,2,4-Trimethylbenzene	21.41	105	32321	0.52802	ppb	#	68
85) Sec-Butylbenzene	21.76	105	36729	0.48267	ppb		87
86) p-Isopropyltoluene	22.00	119	32111	0.49266	ppb		93
87) Benzyl Chloride	22.43	91	4589	0.53039	ppb		91
88) 1,3-DCB	22.11	146	17221	0.50589	ppb	#	84
89) 1,4-DCB	22.29	146	15280	0.48363	ppb		95
90) Hexachloroethane	23.59	117	1692	2.09850	ppb	#	60
91) n-Butylbenzene	22.70	91	30355	0.53395	ppb		90
92) 1,2-DCB	22.92	146	13282	0.49053	ppb		92
93) 1,2-Dibromo-3-chloropropan	24.16	155	468	1.71132	ppb	#	1
94) 1,2,4-Trichlorobenzene	25.58	180	11120	0.56675	ppb		82

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

1030C16W.D CALLW.M Fri Dec 02 11:20:45 2011

Data File : M:\CHICO\DATA\C111030\1030C16W.D Vial: 1
 Acq On : 31 Oct 11 00:11 Operator: STC
 Sample : Voc Std 10-30-11@0.5ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue	
95) Hexachlorobutadiene	25.83	223	2317	0.64998	ppb	#	59
96) Naphthalene	25.93	128	13003	0.53713	ppb	#	92
97) 1,2,3-Trichlorobenzene	26.30	180	7873	0.53048	ppb	#	70

(#) = qualifier out of range (m) = manual integration
 1030C16W.D CALLW.M Fri Dec 02 11:20:46 2011

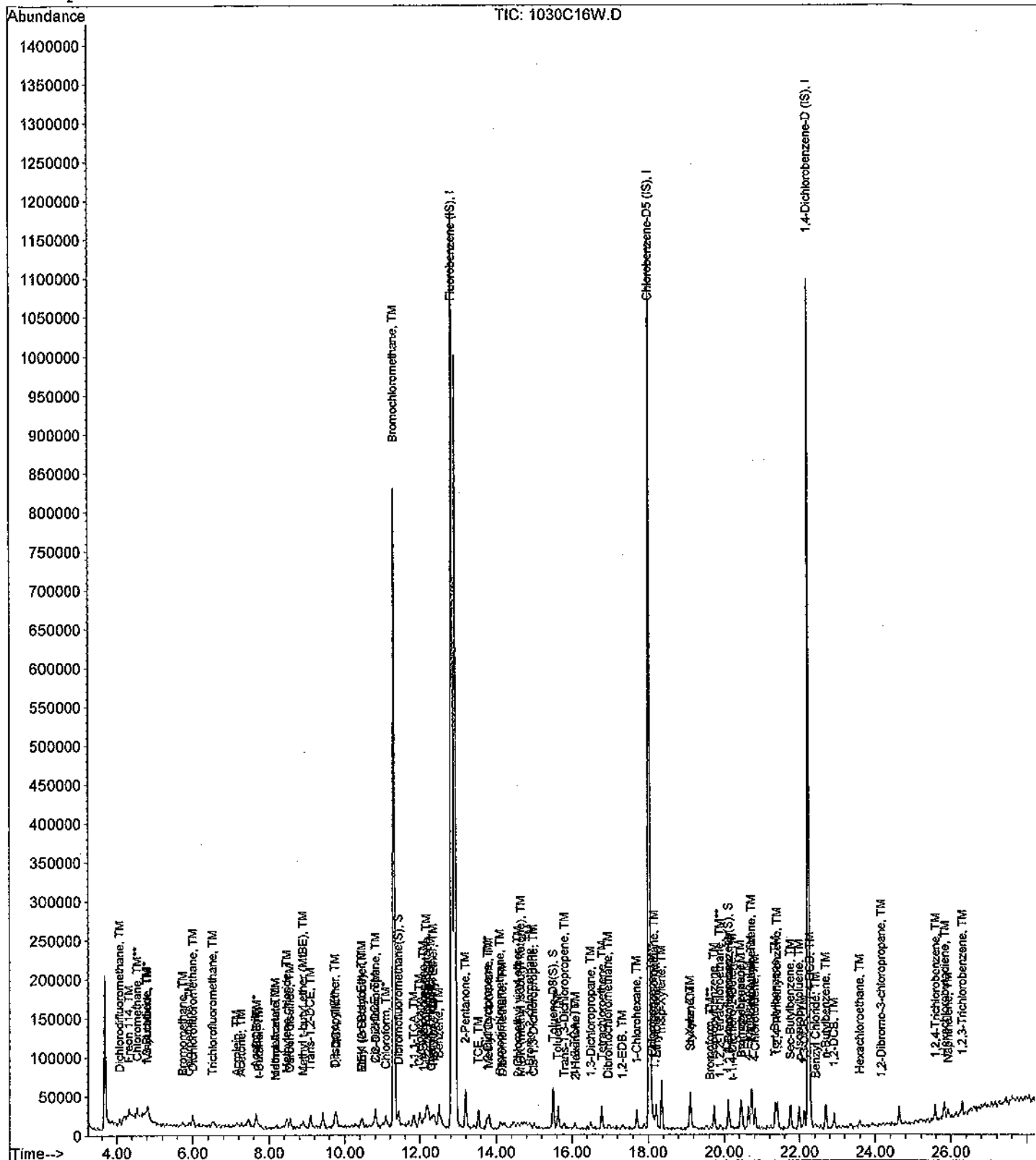
Data File : M:\CHICO\DATA\C111030\1030C16W.D
Acq On : 31 Oct 11 00:11
Sample : Voc Std 10-30-11@0.5ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Dec 02 11:18:49 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C17W.D Vial: 1
 Acq On : 31 Oct 11 00:54 Operator: STC
 Sample : Voc Std 10-30-11@1.0ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	12.84	96	539200	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.03	117	383872	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.24	152	197760	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane (S)	11.42	111	29134	2.02833	ppb	0.00
Spiked Amount	25.097		Recovery	=	8.081%	
38) 1,2-DCA-D4 (S)	12.22	65	27452	2.14703	ppb	0.00
Spiked Amount	24.225		Recovery	=	8.863%	
56) Toluene-D8 (S)	15.50	98	110307	2.04225	ppb	0.00
Spiked Amount	25.808		Recovery	=	7.912%	
64) 4-Bromofluorobenzene (S)	20.11	95	40278	2.08121	ppb	0.00
Spiked Amount	25.459		Recovery	=	8.174%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.07	85	20878	1.05095	ppb	# 77
3) Freon 114	4.34	85	13301	1.06904	ppb	79
4) Chloromethane	4.55	50	26727	1.08568	ppb	96
5) Vinyl chloride	4.82	62	20250	1.22976	ppb	92
6) 1,3-Butadiene	4.82	54	298	6.47548	ppb	# 63
7) Bromomethane	5.73	94	10639	0.89005	ppb	88
8) Chloroethane	5.91	64	16785	1.23404	ppb	95
9) Dichlorofluoromethane	6.01	67	40917	1.08801	ppb	99
10) Trichlorofluoromethane	6.54	101	22833	1.02311	ppb	# 73
11) Acetonitrile	7.65	41	29961	50.72269	ug/l	100
12) Acrolein	7.16	56	13727	50.78428	ppb	87
13) Acetone	7.28	43	5913	3.82754	ppb	# 80
14) Freon-113	7.47	101	14321	0.06398	ppb	# 85
15) 1,1-DCE	7.68	96	16287	1.05802	ppb	# 61
16) t-Butanol	7.76	59	3312	45.30953	ppb	93
17) Methyl Acetate	8.19	43	8892	1.35363	ppb	91
18) Iodomethane	8.17	142	3919	4.11599	ppb	# 77
19) Acrylonitrile	8.55	53	1511	0.54689	ppb	# 42
20) Methylene chloride	8.47	84	15404	1.04912	ppb	# 71
21) Carbon disulfide	8.56	76	15964	1.06731	ppb	97
22) Methyl t-butyl ether (MtBE)	8.89	73	24721	1.06247	ppb	# 90
23) Trans-1,2-DCE	9.10	96	18800	1.19557	ppb	# 91
24) Diisopropyl Ether	9.75	45	53157	1.03341	ppb	96
25) 1,1-DCA	9.78	63	31252	1.02448	ppb	# 91
26) Vinyl Acetate	9.41	43	15155	0.28793	ppb	# 78
27) Ethyl tert Butyl Ether	10.44	59	34422	0.98019	ppb	99
28) MEK (2-Butanone)	10.44	43	9896	1.04178	ppb	# 90
29) Cis-1,2-DCE	10.81	96	18355	1.00018	ppb	79
30) 2,2-Dichloropropane	10.81	77	21461	0.98211	ppb	96
31) Chloroform	11.09	83	29160	0.99364	ppb	95
32) Bromochloromethane	11.32	128	5916	1.15793	ppb	90
34) 1,1,1-TCA	11.83	97	27369	1.02550	ppb	88
35) Cyclohexane	12.00	56	26209	1.05474	ppb	95
36) 1,1-Dichloropropene	12.09	75	26709	1.16796	ppb	# 85
37) 2,2,4-Trimethylpentane	12.17	57	63801	0.66906	ppb	93
39) Carbon Tetrachloride	12.29	117	16287	0.88625	ppb	97

(#) = qualifier out of range (m) = manual integration
 1030C17W.D CALLW.M Fri Dec 02 11:20:50 2011

Data File : M:\CHICO\DATA\C111030\1030C17W.D
 Acq On : 31 Oct 11 00:54
 Sample : Voc Std 10-30-11@1.0ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue	
40) Tert Amyl Methyl Ether	12.35	73	26700	1.01682	ppb		98
41) 1,2-DCA	12.38	62	14649	0.97246	ppb	#	86
42) Benzene	12.49	78	69760	1.06177	ppb	#	93
43) TCE	13.53	95	19974	1.09770	ppb		87
44) 2-Pentanone	13.20	43	182845	48.03774	ppb		99
45) 1,2-Dichloropropane	13.77	63	16180	1.08346	ppb		97
46) Bromodichloromethane	14.12	83	17574	1.03007	ppb	#	98
47) Methyl Cyclohexane	13.82	83	20818	0.97903	ppb		89
48) Dibromomethane	14.16	93	6074	1.01701	ppb	#	71
49) 2-Chloroethyl vinyl ether	14.58	63	3448	0.90821	ppb		94
50) 1-Bromo-2-chloroethane	14.88	63	12639	0.99189	ppb	#	62
51) Cis-1,3-Dichloropropene	15.01	75	16679	1.02522	ppb		86
52) Toluene	15.63	91	63296	0.97675	ppb		83
53) Trans-1,3-Dichloropropene	15.81	75	10774	0.91989	ppb		92
54) 1,1,2-TCA	16.09	83	5625	0.89108	ppb		89
57) 1,2-EDB	17.32	107	6774	0.92719	ppb	#	92
58) Tetrachloroethene	16.79	164	20256	1.02636	ppb		96
59) 1-Chlorohexane	17.70	91	22047	0.97009	ppb		95
60) 1,1,1,2-Tetrachloroethane	18.16	131	10874	0.88009	ppb		87
61) m&p-Xylene	18.35	106	56585	1.94079	ppb		87
62) o-Xylene	19.10	106	25167	0.89753	ppb		93
63) Styrene	19.12	104	40956	0.96769	ppb		88
65) 2-Hexanone	16.10	43	3038	0.86490	ppb	#	70
66) 1,3-Dichloropropane	16.49	76	13620	0.94539	ppb		85
67) Dibromochloromethane	16.98	129	8452	0.89867	ppb	#	59
68) Chlorobenzene	18.10	112	40045	0.96012	ppb		92
69) Ethylbenzene	18.22	91	77629	0.99952	ppb		96
70) Bromoform	19.64	173	2595	1.61154	ppb	#	81
72) MIBK (methyl isobutyl keto)	14.66	43	6936	1.23373	ppb	#	66
73) Isopropylbenzene	19.74	105	73566	1.02638	ppb	#	82
74) 1,1,2,2-Tetrachloroethane	19.90	83	5631	0.93852	ppb		82
75) 1,2,3-Trichloropropane	20.15	110	1160	1.79904	ppb	#	72
76) t-1,4-Dichloro-2-Butene	20.24	53	1095	0.80488	ppb	#	13
77) Bromobenzene	20.48	156	16894	1.02183	ppb		83
78) n-Propylbenzene	20.44	91	88461	1.03456	ppb		99
79) 4-Ethyltoluene	20.64	105	60450	1.02161	ppb		93
80) 2-Chlorotoluene	20.73	91	57667	1.01832	ppb		95
81) 1,3,5-Trimethylbenzene	20.71	105	59903	1.02902	ppb		95
82) 4-Chlorotoluene	20.81	91	52108	1.06859	ppb		96
83) Tert-Butylbenzene	21.35	119	63199	1.00276	ppb		94
84) 1,2,4-Trimethylbenzene	21.42	105	63077	1.03747	ppb		94
85) Sec-Butylbenzene	21.76	105	75467	0.99848	ppb		94
86) p-Isopropyltoluene	21.99	119	62593	0.96686	ppb		95
87) Benzyl Chloride	22.43	91	7387	0.85958	ppb	#	79
88) 1,3-DCB	22.14	146	33327	0.98569	ppb		96
89) 1,4-DCB	22.30	146	31510	1.00410	ppb		98
90) Hexachloroethane	23.60	117	5631	2.41666	ppb	#	75
91) n-Butylbenzene	22.70	91	57562	1.01941	ppb		93
92) 1,2-DCB	22.92	146	25391	0.94412	ppb	#	84
93) 1,2-Dibromo-3-chloropropan	24.15	155	691	1.91673	ppb	#	73
94) 1,2,4-Trichlorobenzene	25.59	180	19884	1.02031	ppb		78

(#) = qualifier out of range (m) = manual integration
 1030C17W.D CALLW.M Fri Dec 02 11:20:51 2011

Data File : M:\CHICO\DATA\C111030\1030C17W.D Vial: 1
 Acq On : 31 Oct 11 00:54 Operator: STC
 Sample : Voc Std 10-30-11@1.0ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) Hexachlorobutadiene	25.84	223	3387	0.95661	ppb	84
96) Naphthalene	25.94	128	24301	1.01065	ppb	97
97) 1,2,3-Trichlorobenzene	26.29	180	13947	0.94613	ppb	97

Quantitation Report

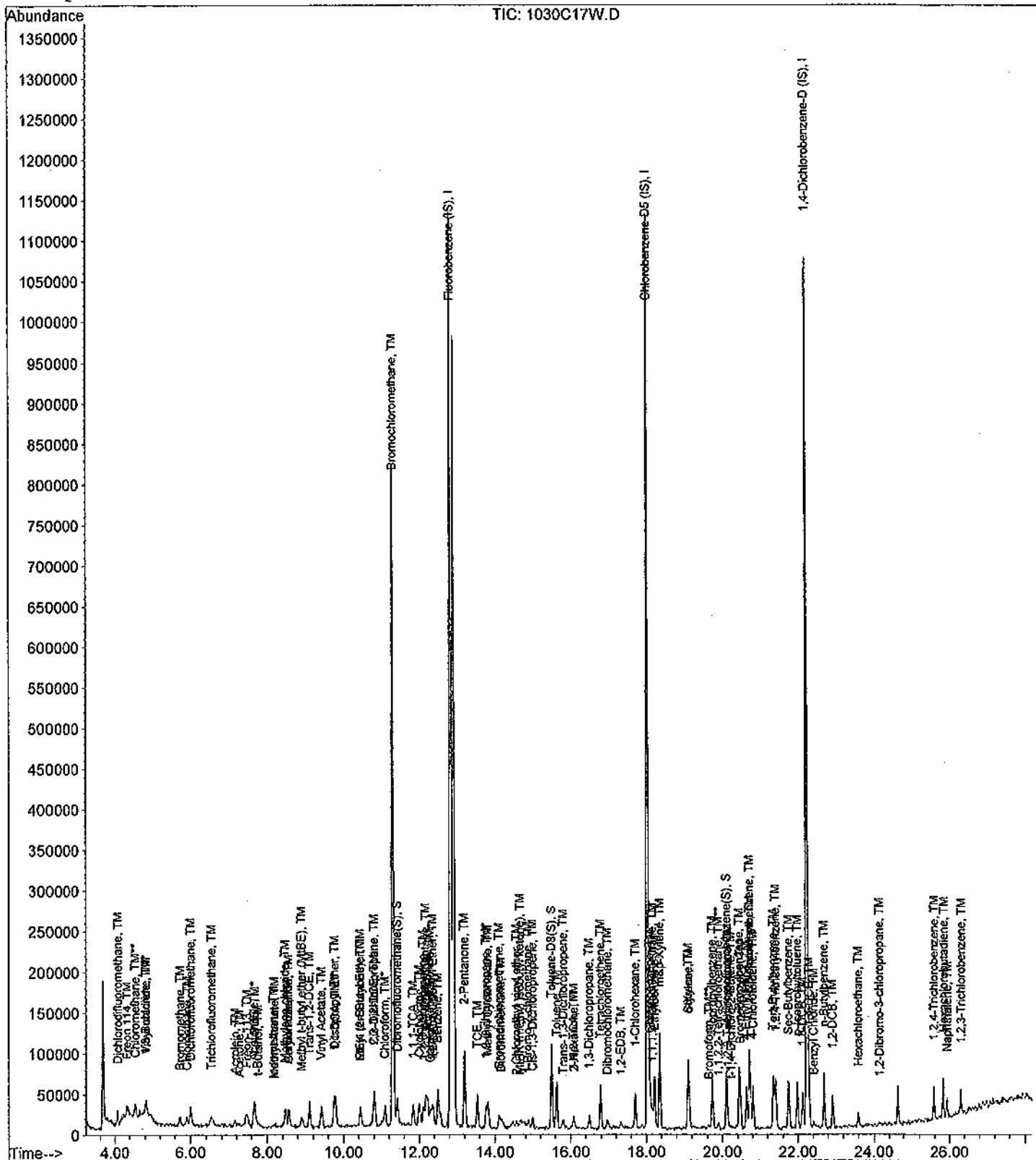
Data File : M:\CHICO\DATA\C111030\1030C17W.D
Acq On : 31 Oct 11 00:54
Sample : Voc Std 10-30-11@1.0ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Dec 02 11:18:49 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C18W.D
 Acq On : 31 Oct 11 1:37
 Sample : Voc Std 10-30-11@2.0ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	12.83	96	543693	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.04	117	392832	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.24	152	191296	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.42	111	60078	4.14811	ppb	0.00
Spiked Amount	25.097		Recovery	=	16.528%	
38) 1,2-DCA-D4(S)	12.22	65	54589	4.23414	ppb	0.00
Spiked Amount	24.225		Recovery	=	17.478%	
56) Toluene-D8(S)	15.50	98	219343	3.96834	ppb	0.00
Spiked Amount	25.808		Recovery	=	15.375%	
64) 4-Bromofluorobenzene(S)	20.11	95	76951	3.88546	ppb	0.00
Spiked Amount	25.459		Recovery	=	15.260%	
Target Compounds						
2) Dichlorodifluoromethane	4.07	85	36846	1.83942	ppb	95
3) Freon 114	4.32	85	25225	2.01066	ppb	95
4) Chloromethane	4.55	50	51493	2.07441	ppb	100
5) Vinyl chloride	4.81	62	31638	1.90546	ppb	92
6) 1,3-Butadiene	4.84	54	317	6.83143	ppb	# 82
7) Bromomethane	5.71	94	28199	2.33962	ppb	74
8) Chloroethane	5.92	64	27665	2.01714	ppb	90
9) Dichlorofluoromethane	6.00	67	80153	2.11371	ppb	99
10) Trichlorofluoromethane	6.54	101	46217	2.05380	ppb	88
11) Acetonitrile	7.66	41	44013	73.89637	ug/l	100
12) Acrolein	7.16	56	19054	69.90947	ppb	98
13) Acetone	7.27	43	7499	4.81405	ppb	# 42
14) Freon-113	7.46	101	27051	1.13214	ppb	88
15) 1,1-DCE	7.68	96	30774	1.98259	ppb	95
16) t-Butanol	7.77	59	6037	81.90616	ppb	# 90
17) Methyl Acetate	8.19	43	14018	2.50439	ppb	92
18) Iodomethane	8.16	142	9850	4.55459	ppb	# 90
19) Acrylonitrile	8.55	53	4257	2.21042	ppb	# 19
20) Methylene chloride	8.48	84	31366	2.11859	ppb	85
21) Carbon disulfide	8.57	76	31256	2.07243	ppb	98
22) Methyl t-butyl ether (MtBE)	8.91	73	49153	2.09506	ppb	96
23) Trans-1,2-DCE	9.10	96	38306	2.41590	ppb	94
24) Diisopropyl Ether	9.76	45	107058	2.06409	ppb	95
25) 1,1-DCA	9.80	63	63745	2.07237	ppb	98
26) Vinyl Acetate	9.41	43	25227	1.48278	ppb	94
27) Ethyl tert Butyl Ether	10.45	59	76607	2.16342	ppb	92
28) MEK (2-Butanone)	10.43	43	15669	2.02476	ppb	99
29) Cis-1,2-DCE	10.80	96	37483	2.02559	ppb	88
30) 2,2-Dichloropropane	10.81	77	45572	2.06826	ppb	95
31) Chloroform	11.08	83	60802	2.05473	ppb	96
32) Bromochloromethane	11.31	128	10121	1.96459	ppb	82
34) 1,1,1-TCA	11.83	97	53989	2.00623	ppb	93
35) Cyclohexane	12.00	56	52880	2.11050	ppb	95
36) 1,1-Dichloropropene	12.11	75	46149	2.00137	ppb	96
37) 2,2,4-Trimethylpentane	12.19	57	95598	1.55463	ppb	92
39) Carbon Tetrachloride	12.30	117	36525	1.97107	ppb	97

(#) = qualifier out of range (m) = manual integration
 1030C18W.D CALLW.M Fri Dec 02 11:20:57 2011

Data File : M:\CHICO\DATA\C111030\1030C18W.D Vial: 1
 Acq On : 31 Oct 11 1:37 Operator: STC
 Sample : Voc Std 10-30-11@2.0ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue	
40) Tert Amyl Methyl Ether	12.36	73	55233	2.08607	ppb	#	90
41) 1,2-DCA	12.38	62	31308	2.06118	ppb	#	89
42) Benzene	12.50	78	136536	2.06095	ppb		98
43) TCE	13.53	95	39821	2.17034	ppb		94
44) 2-Pentanone	13.20	43	299963	78.15618	ppb		98
45) 1,2-Dichloropropane	13.76	63	28619	1.90057	ppb		96
46) Bromodichloromethane	14.11	83	33573	1.95155	ppb		94
47) Methyl Cyclohexane	13.82	83	40581	1.89267	ppb		83
48) Dibromomethane	14.18	93	12379	2.05557	ppb		85
49) 2-Chloroethyl vinyl ether	14.57	63	8433	2.20290	ppb	#	78
50) 1-Bromo-2-chloroethane	14.88	63	26134	2.03401	ppb	#	77
51) Cis-1,3-Dichloropropene	15.00	75	32272	1.96729	ppb		92
52) Toluene	15.64	91	132018	2.02040	ppb		99
53) Trans-1,3-Dichloropropene	15.80	75	23617	1.99976	ppb		93
54) 1,1,2-TCA	16.07	83	13091	2.05665	ppb		90
57) 1,2-EDB	17.33	107	13384	1.79015	ppb	#	92
58) Tetrachloroethene	16.79	164	40109	1.98595	ppb		92
59) 1-Chlorohexane	17.70	91	46192	1.98613	ppb		96
60) 1,1,1,2-Tetrachloroethane	18.15	131	23520	1.86019	ppb		89
61) m&p-Xylene	18.36	106	110324	3.69766	ppb		95
62) o-Xylene	19.09	106	52936	1.84480	ppb		88
63) Styrene	19.12	104	82149	1.89672	ppb		97
65) 2-Hexanone	16.12	43	7490	2.08373	ppb		85
66) 1,3-Dichloropropane	16.50	76	29140	1.97652	ppb		91
67) Dibromochloromethane	16.96	129	16360	1.69982	ppb		100
68) Chlorobenzene	18.11	112	79768	1.86890	ppb		98
69) Ethylbenzene	18.21	91	149915	1.88621	ppb		93
70) Bromoform	19.64	173	6510	2.30500	ppb	#	44
72) MIBK (methyl isobutyl keto)	14.67	43	12611	2.31897	ppb	#	76
73) Isopropylbenzene	19.73	105	142568	2.05630	ppb		95
74) 1,1,2,2-Tetrachloroethane	19.90	83	12016	2.07037	ppb	#	84
75) 1,2,3-Trichloropropane	20.16	110	1264	2.01509	ppb	#	74
76) t-1,4-Dichloro-2-Butene	20.21	53	2422	1.84044	ppb	#	55
77) Bromobenzene	20.48	156	33262	2.07982	ppb		93
78) n-Propylbenzene	20.45	91	180141	2.17796	ppb		94
79) 4-Ethyltoluene	20.64	105	114833	2.00627	ppb		95
80) 2-Chlorotoluene	20.74	91	114105	2.08302	ppb		94
81) 1,3,5-Trimethylbenzene	20.72	105	116458	2.06813	ppb		96
82) 4-Chlorotoluene	20.81	91	100754	2.13600	ppb		94
83) Tert-Butylbenzene	21.36	119	127189	2.08627	ppb		98
84) 1,2,4-Trimethylbenzene	21.41	105	117571	1.99911	ppb		93
85) Sec-Butylbenzene	21.75	105	153012	2.09286	ppb		92
86) p-Isopropyltoluene	21.99	119	133490	2.13166	ppb		95
87) Benzyl Chloride	22.42	91	15798	1.90043	ppb	#	85
88) 1,3-DCB	22.13	146	68550	2.09596	ppb		97
89) 1,4-DCB	22.29	146	62433	2.05672	ppb		94
90) Hexachloroethane	23.60	117	11613	2.93003	ppb		93
91) n-Butylbenzene	22.70	91	110023	2.01433	ppb		97
92) 1,2-DCB	22.93	146	54129	2.08070	ppb		92
93) 1,2-Dibromo-3-chloropropan	24.14	155	1335	2.54260	ppb		84
94) 1,2,4-Trichlorobenzene	25.58	180	37932	2.01219	ppb		89

(#) = qualifier out of range (m) = manual integration
 1030C18W.D CALLW.M Fri Dec 02 11:20:58 2011

Data File : M:\CHICO\DATA\C111030\1030C18W.D Vial: 1
 Acq On : 31 Oct 11 1:37 Operator: STC
 Sample : Voc Std 10-30-11@2.0ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) Hexachlorobutadiene	25.84	223	6417	1.87363	ppb #	88
96) Naphthalene	25.93	128	46421	1.99582	ppb	98
97) 1,2,3-Trichlorobenzene	26.30	180	33171	2.32627	ppb	93

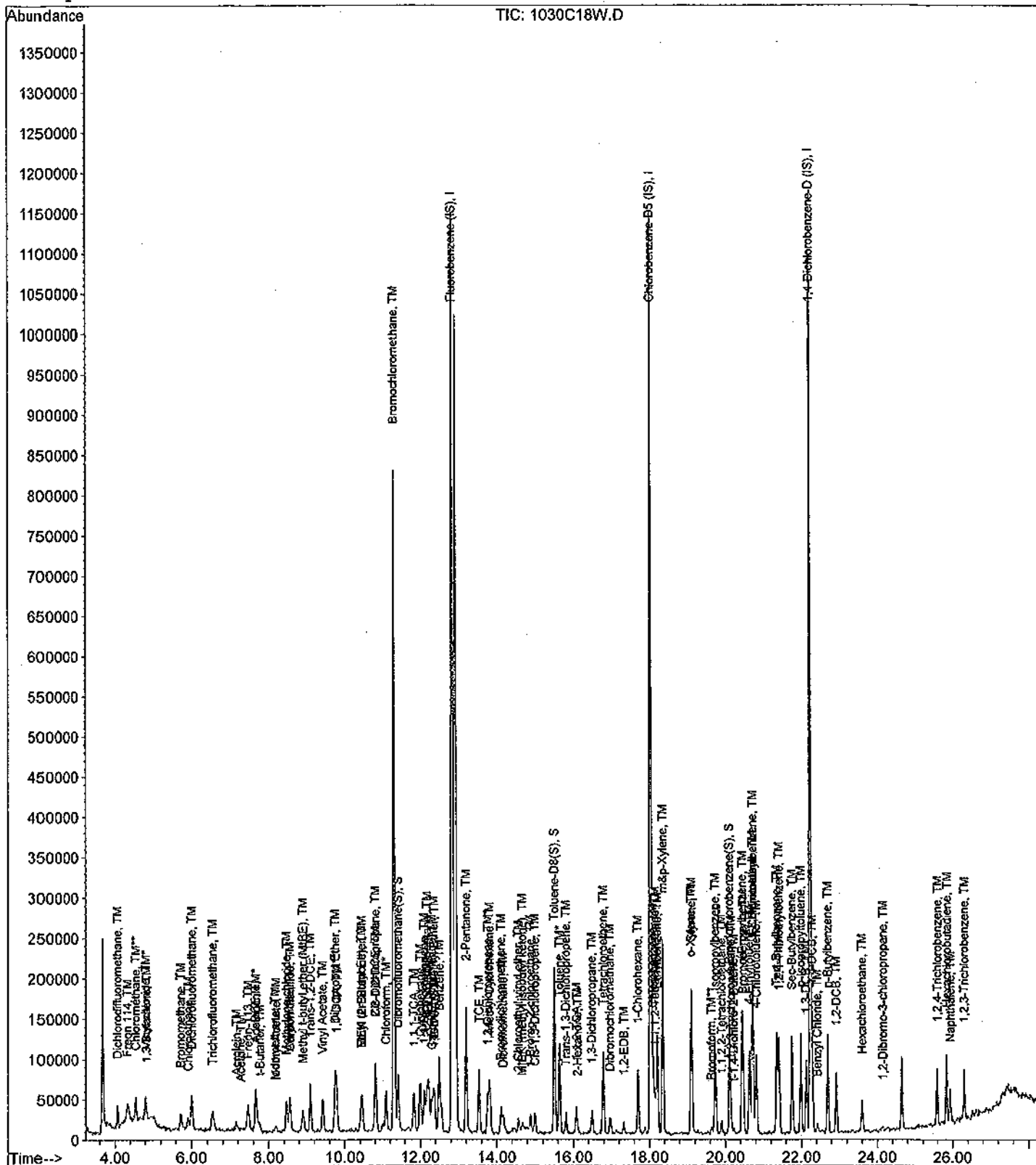
Data File : M:\CHICO\DATA\C111030\1030C18W.D
Acq On : 31 Oct 11 1:37
Sample : Voc Std 10-30-11@2.0ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Dec 02 11:18:49 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C19W.D Vial: 1
 Acq On : 31 Oct 11 2:20 Operator: STC
 Sample : Voc Std 10-30-11@5.0ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	12.84	96	541888	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.03	117	369024	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.24	152	201600	25.00000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
33) Dibromofluoromethane (S)	11.43	111	148052	10.25637	ppb	0.00
Spiked Amount	25.097		Recovery	=	40.865%	
38) 1,2-DCA-D4 (S)	12.23	65	131632	10.24391	ppb	0.00
Spiked Amount	24.225		Recovery	=	42.286%	
56) Toluene-D8 (S)	15.50	98	537545	10.35266	ppb	0.00
Spiked Amount	25.808		Recovery	=	40.115%	
64) 4-Bromofluorobenzene (S)	20.11	95	187725	10.09026	ppb	0.00
Spiked Amount	25.459		Recovery	=	39.632%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	4.07	85	95693	4.79307	ppb	98
3) Freon 114	4.35	85	60331	4.82494	ppb	99
4) Chloromethane	4.55	50	115016	4.64888	ppb	98
5) Vinyl chloride	4.82	62	95476	5.76939	ppb	92
6) 1,3-Butadiene	4.78	54	267	5.77308	ppb	# 1
7) Bromomethane	5.73	94	55608	4.62906	ppb	89
8) Chloroethane	5.91	64	65920	4.82244	ppb	93
9) Dichlorofluoromethane	6.01	67	193619	5.12293	ppb	100
10) Trichlorofluoromethane	6.52	101	112493	5.01564	ppb	99
11) Acetonitrile	7.65	41	62470	105.23443	ug/l	100
12) Acrolein	7.15	56	26911	99.06583	ppb	94
13) Acetone	7.29	43	12573	8.09824	ppb	97
14) Freon-113	7.46	101	68643	4.67447	ppb	88
15) 1,1-DCE	7.67	96	76091	4.91843	ppb	89
16) t-Butanol	7.76	59	7217	98.24180	ppb	93
17) Methyl Acetate	8.19	43	20340	3.95990	ppb	95
18) Iodomethane	8.17	142	26092	5.76882	ppb	90
19) Acrylonitrile	8.56	53	8927	5.07063	ppb	92
20) Methylene chloride	8.48	84	71913	4.87349	ppb	94
21) Carbon disulfide	8.56	76	72344	4.81275	ppb	99
22) Methyl t-butyl ether (MtBE)	8.90	73	114808	4.90979	ppb	# 90
23) Trans-1,2-DCE	9.10	96	89303	5.65097	ppb	95
24) Diisopropyl Ether	9.75	45	260084	5.03115	ppb	91
25) 1,1-DCA	9.79	63	163680	5.33900	ppb	96
26) Vinyl Acetate	9.42	43	54231	4.98892	ppb	# 79
27) Ethyl tert Butyl Ether	10.44	59	180946	5.12702	ppb	98
28) MEK (2-Butanone)	10.43	43	31144	4.71582	ppb	# 87
29) Cis-1,2-DCE	10.82	96	90101	4.88531	ppb	94
30) 2,2-Dichloropropane	10.82	77	110498	5.03159	ppb	99
31) Chloroform	11.10	83	153864	5.21698	ppb	100
32) Bromochloromethane	11.31	128	28344	5.52019	ppb	86
34) 1,1,1-TCA	11.84	97	133883	4.99165	ppb	96
35) Cyclohexane	12.00	56	119918	4.80199	ppb	98
36) 1,1-Dichloropropene	12.10	75	117037	5.09252	ppb	98
37) 2,2,4-Trimethylpentane	12.18	57	209064	4.78823	ppb	95
39) Carbon Tetrachloride	12.30	117	94473	5.11522	ppb	93

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

Data File : M:\CHICO\DATA\C111030\1030C19W.D
 Acq On : 31 Oct 11 2:20
 Sample : Voc Std 10-30-11@5.0ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)

Title : METHOD 8260

Last Update : Fri Dec 02 11:18:49 2011

Response via : Initial Calibration

DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40) Tert Amyl Methyl Ether	12.36	73	128972	4.88731	ppb	98
41) 1,2-DCA	12.38	62	76954	5.08320	ppb	98
42) Benzene	12.50	78	331433	5.01951	ppb	100
43) TCE	13.54	95	94771	5.18246	ppb	92
44) 2-Pentanone	13.20	43	389562	101.83954	ppb	98
45) 1,2-Dichloropropane	13.77	63	79197	5.27695	ppb	96
46) Bromodichloromethane	14.12	83	87445	5.09999	ppb	96
47) Methyl Cyclohexane	13.82	83	103751	4.85498	ppb	94
48) Dibromomethane	14.16	93	31588	5.26275	ppb	82
49) 2-Chloroethyl vinyl ether	14.58	63	20703	5.42613	ppb	# 92
50) 1-Bromo-2-chloroethane	14.88	63	66427	5.18724	ppb	82
51) Cis-1,3-Dichloropropene	15.01	75	82661	5.05577	ppb	98
52) Toluene	15.63	91	327752	5.03263	ppb	100
53) Trans-1,3-Dichloropropene	15.80	75	58149	4.94014	ppb	92
54) 1,1,2-TCA	16.08	83	31919	5.03132	ppb	92
57) 1,2-EDB	17.32	107	37026	5.27183	ppb	# 70
58) Tetrachloroethene	16.79	164	96522	5.08752	ppb	93
59) 1-Chlorohexane	17.70	91	112708	5.15879	ppb	93
60) 1,1,1,2-Tetrachloroethane	18.16	131	63531	5.34881	ppb	97
61) m&p-Xylene	18.36	106	280238	9.99854	ppb	95
62) o-Xylene	19.11	106	143606	5.32749	ppb	99
63) Styrene	19.12	104	215758	5.30297	ppb	96
65) 2-Hexanone	16.11	43	15947	4.72270	ppb	87
66) 1,3-Dichloropropane	16.50	76	70642	5.10067	ppb	92
67) Dibromochloromethane	16.97	129	44643	4.93770	ppb	89
68) Chlorobenzene	18.10	112	203928	5.08611	ppb	100
69) Ethylbenzene	18.22	91	385898	5.16857	ppb	100
70) Bromoform	19.63	173	18516	4.67993	ppb	89
72) MIBK (methyl isobutyl keto	14.68	43	24562	4.28572	ppb	100
73) Isopropylbenzene	19.74	105	367532	5.03008	ppb	99
74) 1,1,2,2-Tetrachloroethane	19.90	83	28865	4.71928	ppb	# 80
75) 1,2,3-Trichloropropane	20.15	110	3527	5.18588	ppb	# 55
76) t-1,4-Dichloro-2-Butene	20.22	53	6664	4.80505	ppb	# 82
77) Bromobenzene	20.48	156	83579	4.95894	ppb	96
78) n-Propylbenzene	20.44	91	444891	5.10396	ppb	99
79) 4-Ethyltoluene	20.64	105	295868	4.90496	ppb	95
80) 2-Chlorotoluene	20.73	91	295014	5.11030	ppb	95
81) 1,3,5-Trimethylbenzene	20.71	105	303247	5.11000	ppb	98
82) 4-Chlorotoluene	20.82	91	244634	4.92119	ppb	94
83) Tert-Butylbenzene	21.36	119	322939	5.02640	ppb	96
84) 1,2,4-Trimethylbenzene	21.42	105	306527	4.94563	ppb	98
85) Sec-Butylbenzene	21.76	105	387689	5.03168	ppb	98
86) p-Isopropyltoluene	21.99	119	333281	5.05005	ppb	97
87) Benzyl Chloride	22.43	91	41624	4.75127	ppb	92
88) 1,3-DCB	22.14	146	173843	5.04369	ppb	91
89) 1,4-DCB	22.30	146	155968	4.87542	ppb	94
90) Hexachloroethane	23.60	117	36490	4.84597	ppb	81
91) n-Butylbenzene	22.70	91	281770	4.89505	ppb	94
92) 1,2-DCB	22.93	146	134998	4.92405	ppb	97
93) 1,2-Dibromo-3-chloropropan	24.14	155	4220	5.04887	ppb	94
94) 1,2,4-Trichlorobenzene	25.59	180	99085	4.98753	ppb	96

(#) = qualifier out of range (m) = manual integration
 1030C19W.D CALLW.M Fri Dec 02 11:21:04 2011

Data File : M:\CHICO\DATA\C111030\1030C19W.D Vial: 1
Acq On : 31 Oct 11 2:20 Operator: STC
Sample : Voc Std 10-30-11@5.0ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Dec 02 11:18:49 2011
Response via : Initial Calibration
DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) Hexachlorobutadiene	25.84	223	15832	4.38634	ppb	86
96) Naphthalene	25.94	128	114277	4.66210	ppb	98
97) 1,2,3-Trichlorobenzene	26.29	180	73429	4.88636	ppb	92

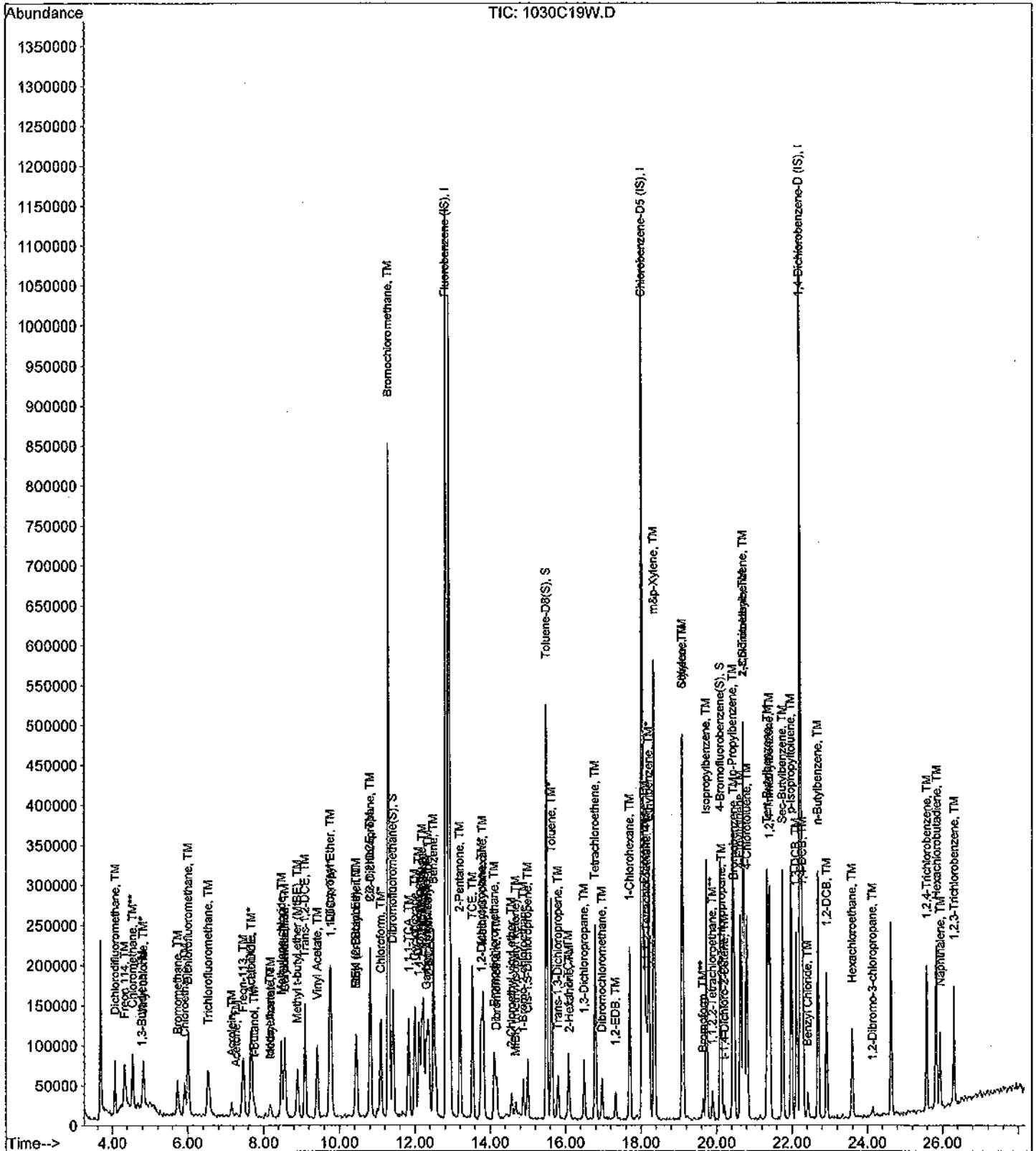
Data File : M:\CHICO\DATA\C111030\1030C19W.D
Acq On : 31 Oct 11 2:20
Sample : Voc Std 10-30-11@5.0ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Dec 02 11:18:49 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C20W.D
 Acq On : 31 Oct 11 3:03
 Sample : Voc Std 10-30-11@10ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	96	556544	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.04	117	375296	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.24	152	203520	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.43	111	379665	25.60885	ppb	0.00
Spiked Amount	25.097		Recovery	=	102.039%	
38) 1,2-DCA-D4 (S)	12.23	65	325575	24.66979	ppb	0.00
Spiked Amount	24.225		Recovery	=	101.836%	
56) Toluene-D8 (S)	15.50	98	1312175	24.84903	ppb	0.00
Spiked Amount	25.808		Recovery	=	96.283%	
64) 4-Bromofluorobenzene(S)	20.11	95	480879	25.41539	ppb	0.00
Spiked Amount	25.459		Recovery	=	99.825%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.07	85	203737	9.93605	ppb	100
3) Freon 114	4.33	85	139352	10.85112	ppb	100
4) Chloromethane	4.55	50	239697	9.43328	ppb	100
5) Vinyl chloride	4.82	62	177123	10.42127	ppb	100
6) 1,3-Butadiene	4.83	54	475	10.00000	ppb	100
7) Bromomethane	5.73	94	118673	9.61873	ppb	100
8) Chloroethane	5.91	64	132559	9.44211	ppb	100
9) Dichlorofluoromethane	6.01	67	384006	9.89278	ppb	100
10) Trichlorofluoromethane	6.53	101	230965	10.02667	ppb	100
11) Acetonitrile	7.65	41	74340	121.93234	ug/l	100
12) Acrolein	7.16	56	32973	118.18505	ppb	100
13) Acetone	7.28	43	21604	13.54865	ppb	100
14) Freon-113	7.47	101	140200	10.44199	ppb	100
15) 1,1-DCE	7.68	96	152367	9.58945	ppb	100
16) t-Butanol	7.77	59	9738	129.06824	ppb	100
17) Methyl Acetate	8.19	43	49512	10.32908	ppb	100
18) Iodomethane	8.16	142	66421	8.64718	ppb	100
19) Acrylonitrile	8.56	53	18948	10.88495	ppb	100
20) Methylene chloride	8.47	84	148076	9.77073	ppb	100
21) Carbon disulfide	8.56	76	151616	9.82077	ppb	100
22) Methyl t-butyl ether (MtBE)	8.89	73	244998	10.20148	ppb	100
23) Trans-1,2-DCE	9.10	96	182548	11.24718	ppb	100
24) Diisopropyl Ether	9.76	45	539900	10.16896	ppb	100
25) 1,1-DCA	9.79	63	326209	10.36025	ppb	100
26) Vinyl Acetate	9.42	43	98410	10.00173	ppb	100
27) Ethyl tert Butyl Ether	10.45	59	389708	10.75141	ppb	100
28) MEK (2-Butanone)	10.44	43	65986	10.45330	ppb	100
29) Cis-1,2-DCE	10.82	96	187720	9.91021	ppb	100
30) 2,2-Dichloropropane	10.81	77	219771	9.74386	ppb	100
31) Chloroform	11.09	83	311468	10.28266	ppb	100
32) Bromochloromethane	11.32	128	54568	10.34763	ppb	100
34) 1,1,1-TCA	11.84	97	285282	10.35627	ppb	100
35) Cyclohexane	12.00	56	254779	9.93369	ppb	100
36) 1,1-Dichloropropene	12.11	75	236871	10.03533	ppb	100
37) 2,2,4-Trimethylpentane	12.18	57	404324	10.03470	ppb	100
39) Carbon Tetrachloride	12.31	117	201043	10.59877	ppb	100

(#) = qualifier out of range (m) = manual integration
 1030C20W.D CALLW.M Fri Dec 02 11:21:09 2011

Data File : M:\CHICO\DATA\C111030\1030C20W.D
 Acq On : 31 Oct 11 3:03
 Sample : Voc Std 10-30-11@10ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)

Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40) Tert Amyl Methyl Ether	12.34	73	277234	10.22896	ppb	100
41) 1,2-DCA	12.38	62	162875	10.47539	ppb	100
42) Benzene	12.50	78	685232	10.10446	ppb	100
43) TCE	13.53	95	193489	10.30213	ppb	100
44) 2-Pentanone	13.20	43	514551	130.97195	ppb	100
45) 1,2-Dichloropropane	13.77	63	160165	10.39087	ppb	100
46) Bromodichloromethane	14.11	83	192788	10.94774	ppb	100
47) Methyl Cyclohexane	13.81	83	223185	10.16882	ppb	100
48) Dibromomethane	14.17	93	67961	11.02453	ppb	100
49) 2-Chloroethyl vinyl ether	14.58	63	41287	10.53611	ppb	100
50) 1-Bromo-2-chloroethane	14.89	63	134227	10.20568	ppb	100
51) Cis-1,3-Dichloropropene	15.00	75	178053	10.60342	ppb	100
52) Toluene	15.63	91	682617	10.20555	ppb	100
53) Trans-1,3-Dichloropropene	15.80	75	130192	10.76940	ppb	100
54) 1,1,2-TCA	16.08	83	73187	11.23251	ppb	100
57) 1,2-EDB	17.33	107	76477	10.70696	ppb	100
58) Tetrachloroethene	16.79	164	188693	9.77949	ppb	100
59) 1-Chlorohexane	17.70	91	223919	10.07778	ppb	100
60) 1,1,1,2-Tetrachloroethane	18.16	131	136098	11.26688	ppb	100
61) m&p-Xylene	18.36	106	573288	20.11236	ppb	100
62) o-Xylene	19.11	106	288268	10.51543	ppb	100
63) Styrene	19.13	104	435830	10.53295	ppb	100
65) 2-Hexanone	16.11	43	35479	10.33151	ppb	100
66) 1,3-Dichloropropane	16.49	76	155699	11.05429	ppb	100
67) Dibromochloromethane	16.98	129	100610	10.94190	ppb	100
68) Chlorobenzene	18.11	112	417306	10.23397	ppb	100
69) Ethylbenzene	18.22	91	783451	10.31788	ppb	100
70) Bromoform	19.64	173	44444	9.50336	ppb	100
72) MIBK (methyl isobutyl keto)	14.68	43	56876	9.83043	ppb	100
73) Isopropylbenzene	19.73	105	751023	10.18160	ppb	100
74) 1,1,2,2-Tetrachloroethane	19.90	83	68052	11.02118	ppb	100
75) 1,2,3-Trichloropropane	20.16	110	8339	12.02369	ppb	100
76) t-1,4-Dichloro-2-Butene	20.24	53	14863	10.61580	ppb	100
77) Bromobenzene	20.48	156	169233	9.94627	ppb	100
78) n-Propylbenzene	20.44	91	904419	10.27795	ppb	100
79) 4-Ethyltoluene	20.63	105	616295	10.12067	ppb	100
80) 2-Chlorotoluene	20.74	91	594233	10.19632	ppb	100
81) 1,3,5-Trimethylbenzene	20.72	105	587753	9.81075	ppb	100
82) 4-Chlorotoluene	20.82	91	501553	9.99433	ppb	100
83) Tert-Butylbenzene	21.36	119	667298	10.28820	ppb	100
84) 1,2,4-Trimethylbenzene	21.42	105	611300	9.76991	ppb	100
85) Sec-Butylbenzene	21.76	105	815062	10.47861	ppb	100
86) p-Isopropyltoluene	21.99	119	683802	10.26358	ppb	100
87) Benzyl Chloride	22.42	91	84140	9.51375	ppb	100
88) 1,3-DCB	22.12	146	342186	9.83414	ppb	100
89) 1,4-DCB	22.30	146	328879	10.18349	ppb	100
90) Hexachloroethane	23.60	117	91222	9.10196	ppb	100
91) n-Butylbenzene	22.69	91	572922	9.85919	ppb	100
92) 1,2-DCB	22.93	146	290055	10.47995	ppb	100
93) 1,2-Dibromo-3-chloropropan	24.15	155	11552	11.48408	ppb	100
94) 1,2,4-Trichlorobenzene	25.59	180	201946	10.06924	ppb	100

(#) = qualifier out of range (m) = manual integration
 1030C20W.D CALLW.M Fri Dec 02 11:21:10 2011

Data File : M:\CHICO\DATA\C111030\1030C20W.D Vial: 1
Acq On : 31 Oct 11 3:03 Operator: STC
Sample : Voc Std 10-30-11@10ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Dec 02 11:18:49 2011
Response via : Initial Calibration
DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) Hexachlorobutadiene	25.84	223	37504	10.29265	ppb	100
96) Naphthalene	25.94	128	255426	10.32217	ppb	100
97) 1,2,3-Trichlorobenzene	26.29	180	158877	10.47278	ppb	100

Quantitation Report

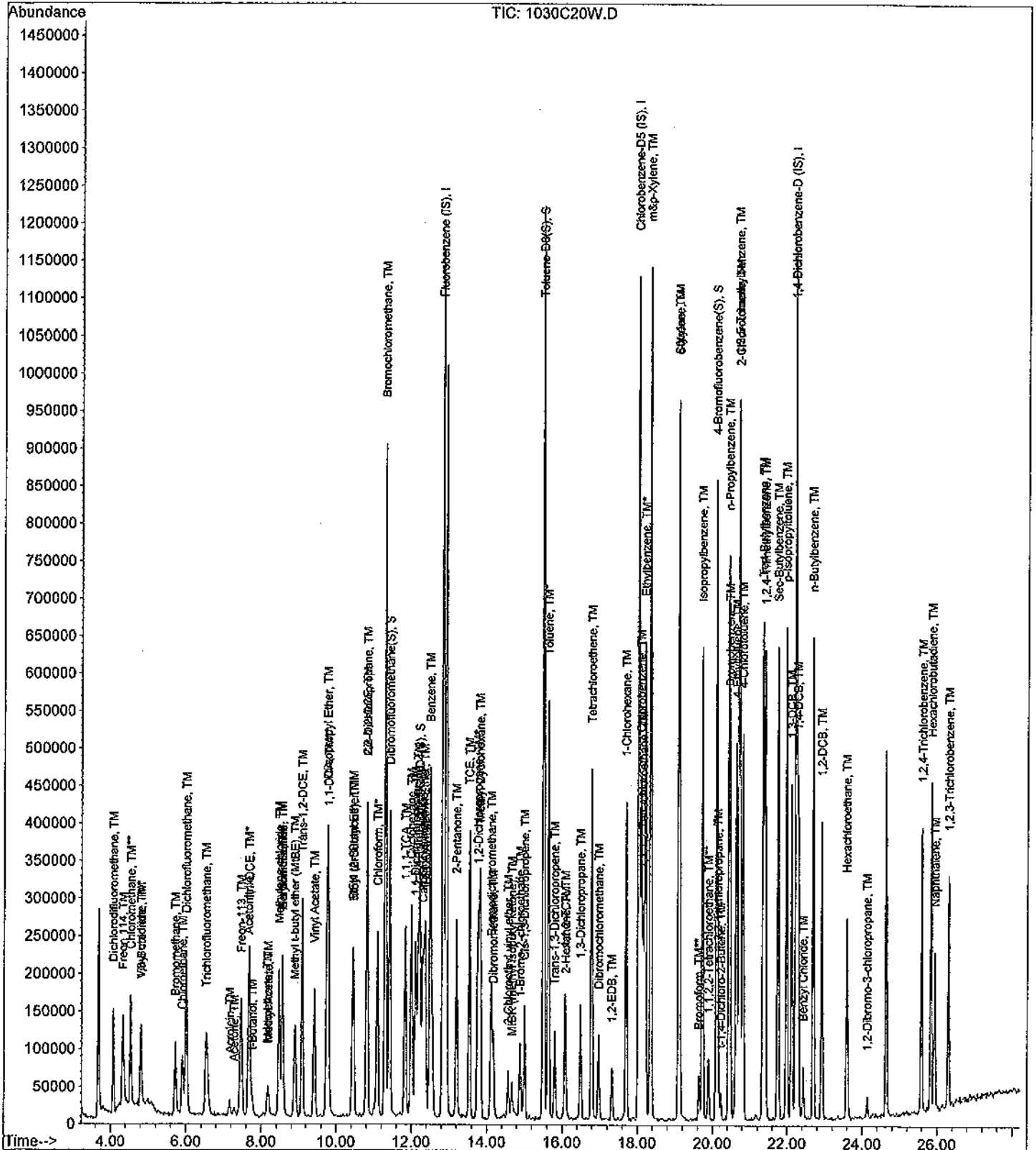
Data File : M:\CHICO\DATA\C111030\1030C20W.D
 Acq On : 31 Oct 11 3:03
 Sample : Voc Std 10-30-11@10ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C21W.D
 Acq On : 31 Oct 11 3:46
 Sample : Voc Std 10-30-11@20ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	12.84	96	566784	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.03	117	371200	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.24	152	208640	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane (S)	11.42	111	595137	39.41743	ppb	0.00
Spiked Amount	25.097		Recovery	=	157.057%	
38) 1,2-DCA-D4 (S)	12.23	65	503677	37.47559	ppb	0.00
Spiked Amount	24.225		Recovery	=	154.698%	
56) Toluene-D8 (S)	15.50	98	2079192	39.80872	ppb	0.00
Spiked Amount	25.808		Recovery	=	154.249%	
64) 4-Bromofluorobenzene (S)	20.11	95	744294	39.77146	ppb	0.00
Spiked Amount	25.459		Recovery	=	156.213%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	4.07	85	430955	20.63753	ppb	98
3) Freon 114	4.34	85	282152	21.57379	ppb	99
4) Chloromethane	4.55	50	489131	18.90198	ppb	99
5) Vinyl chloride	4.81	62	352842	20.38487	ppb	100
6) 1,3-Butadiene	4.83	54	344	7.11126	ppb	# 70
7) Bromomethane	5.73	94	258043	20.53713	ppb	86
8) Chloroethane	5.91	64	259811	18.17186	ppb	97
9) Dichlorofluoromethane	6.01	67	754464	19.08539	ppb	99
10) Trichlorofluoromethane	6.53	101	465717	19.85247	ppb	94
11) Acetonitrile	7.65	41	87890	141.55257	ug/l	100
12) Acrolein	7.16	56	38144	134.24936	ppb	98
13) Acetone	7.28	43	36583	22.52802	ppb	# 68
14) Freon-113	7.46	101	275908	21.25897	ppb	94
15) 1,1-DCE	7.68	96	292224	18.05929	ppb	95
16) t-Butanol	7.77	59	10632	138.37146	ppb	91
17) Methyl Acetate	8.19	43	90758	19.14260	ppb	98
18) Iodomethane	8.16	142	180521	16.69886	ppb	# 89
19) Acrylonitrile	8.56	53	34895	19.99122	ppb	97
20) Methylene chloride	8.48	84	296145	19.18795	ppb	91
21) Carbon disulfide	8.56	76	295040	18.76564	ppb	100
22) Methyl t-butyl ether (MtBE)	8.90	73	470382	19.23240	ppb	96
23) Trans-1,2-DCE	9.11	96	343023	20.75257	ppb	92
24) Diisopropyl Ether	9.75	45	1025315	18.96280	ppb	99
25) 1,1-DCA	9.79	63	635624	19.82242	ppb	97
26) Vinyl Acetate	9.42	43	188410	20.16485	ppb	92
27) Ethyl tert Butyl Ether	10.44	59	725972	19.66653	ppb	95
28) MEK (2-Butanone)	10.44	43	124340	19.92151	ppb	98
29) Cis-1,2-DCE	10.82	96	357838	18.54986	ppb	94
30) 2,2-Dichloropropane	10.81	77	438187	19.07664	ppb	93
31) Chloroform	11.09	83	601855	19.51038	ppb	94
32) Bromochloromethane	11.32	128	108166	20.14075	ppb	85
34) 1,1,1-TCA	11.83	97	572722	20.41525	ppb	94
35) Cyclohexane	12.00	56	494926	18.94826	ppb	96
36) 1,1-Dichloropropene	12.10	75	471318	19.60721	ppb	97
37) 2,2,4-Trimethylpentane	12.18	57	798347	20.53839	ppb	93
39) Carbon Tetrachloride	12.30	117	426253	22.06560	ppb	97

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

Data File : M:\CHICO\DATA\C111030\1030C21W.D
 Acq On : 31 Oct 11 3:46
 Sample : Voc Std 10-30-11@20ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40) Tert Amyl Methyl Ether	12.35	73	534720	19.37283	ppb	97
41) 1,2-DCA	12.37	62	312083	19.70915	ppb	98
42) Benzene	12.50	78	1326677	19.20979	ppb	99
43) TCE	13.54	95	376706	19.69496	ppb	91
44) 2-Pentanone	13.20	43	581100	145.23880	ppb	100
45) 1,2-Dichloropropane	13.76	63	307944	19.61725	ppb	95
46) Bromodichloromethane	14.12	83	371635	20.72255	ppb #	93
47) Methyl Cyclohexane	13.82	83	433011	19.37253	ppb	97
48) Dibromomethane	14.16	93	130449	20.77893	ppb	97
49) 2-Chloroethyl vinyl ether	14.58	63	79377	19.89041	ppb	95
50) 1-Bromo-2-chloroethane	14.88	63	259762	19.39365	ppb	89
51) Cis-1,3-Dichloropropene	15.01	75	350200	20.47835	ppb	91
52) Toluene	15.63	91	1320740	19.38915	ppb	97
53) Trans-1,3-Dichloropropene	15.80	75	249890	20.29730	ppb	96
54) 1,1,2-TCA	16.08	83	131106	19.75819	ppb	93
57) 1,2-EDB	17.33	107	153122	21.67400	ppb	94
58) Tetrachloroethene	16.79	164	367302	19.24640	ppb	91
59) 1-Chlorohexane	17.70	91	453290	20.62604	ppb	98
60) 1,1,1,2-Tetrachloroethane	18.16	131	280249	23.45643	ppb	92
61) m&p-Xylene	18.35	106	1173944	41.63932	ppb	100
62) o-Xylene	19.11	106	585791	21.60426	ppb	95
63) Styrene	19.12	104	892450	21.80633	ppb	99
65) 2-Hexanone	16.10	43	69030	20.32340	ppb	93
66) 1,3-Dichloropropane	16.50	76	287745	20.65470	ppb	99
67) Dibromochloromethane	16.97	129	207497	22.81547	ppb	93
68) Chlorobenzene	18.10	112	813528	20.17102	ppb	97
69) Ethylbenzene	18.22	91	1522721	20.27519	ppb	95
70) Bromoform	19.64	173	97001	19.60233	ppb	84
72) MIBK (methyl isobutyl keto)	14.68	43	106674	17.98505	ppb	92
73) Isopropylbenzene	19.74	105	1516275	20.05166	ppb	98
74) 1,1,1,2,2-Tetrachloroethane	19.89	83	136632	21.58486	ppb	90
75) 1,2,3-Trichloropropane	20.15	110	13641	19.13172	ppb #	42
76) t-1,4-Dichloro-2-Butene	20.22	53	30320	21.12442	ppb #	79
77) Bromobenzene	20.48	156	337635	19.35675	ppb	93
78) n-Propylbenzene	20.44	91	1817556	20.14810	ppb	97
79) 4-Ethyltoluene	20.64	105	1209221	19.37027	ppb	92
80) 2-Chlorotoluene	20.73	91	1199768	20.08139	ppb	99
81) 1,3,5-Trimethylbenzene	20.71	105	1237433	20.14832	ppb	99
82) 4-Chlorotoluene	20.82	91	1006043	19.55523	ppb	96
83) Tert-Butylbenzene	21.36	119	1363292	20.50304	ppb	98
84) 1,2,4-Trimethylbenzene	21.42	105	1240098	19.33311	ppb	98
85) Sec-Butylbenzene	21.76	105	1672276	20.97154	ppb	99
86) p-Isopropyltoluene	21.99	119	1410527	20.65186	ppb	98
87) Benzyl Chloride	22.43	91	179615	19.81078	ppb	96
88) 1,3-DCB	22.13	146	714268	20.02373	ppb	99
89) 1,4-DCB	22.30	146	661023	19.96579	ppb	96
90) Hexachloroethane	23.60	117	220554	18.79960	ppb	91
91) n-Butylbenzene	22.70	91	1175074	19.72516	ppb	100
92) 1,2-DCB	22.93	146	582656	20.53528	ppb	96
93) 1,2-Dibromo-3-chloropropan	24.14	155	19304	17.90735	ppb #	68
94) 1,2,4-Trichlorobenzene	25.59	180	403670	19.63348	ppb	99

(#) = qualifier out of range (m) = manual integration
 1030C21W.D CALLW.M Fri Dec 02 11:21:16 2011

Data File : M:\CHICO\DATA\C111030\1030C21W.D Vial: 1
 Acq On : 31 Oct 11 3:46 Operator: STC
 Sample : Voc Std 10-30-11@20ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) Hexachlorobutadiene	25.84	223	78688	21.06531	ppb	92
96) Naphthalene	25.94	128	505600	19.93070	ppb	99
97) 1,2,3-Trichlorobenzene	26.30	180	309459	19.89820	ppb	98

(#) = qualifier out of range (m) = manual integration
 1030C21W.D CALLW.M Fri Dec 02 11:21:17 2011

Quantitation Report

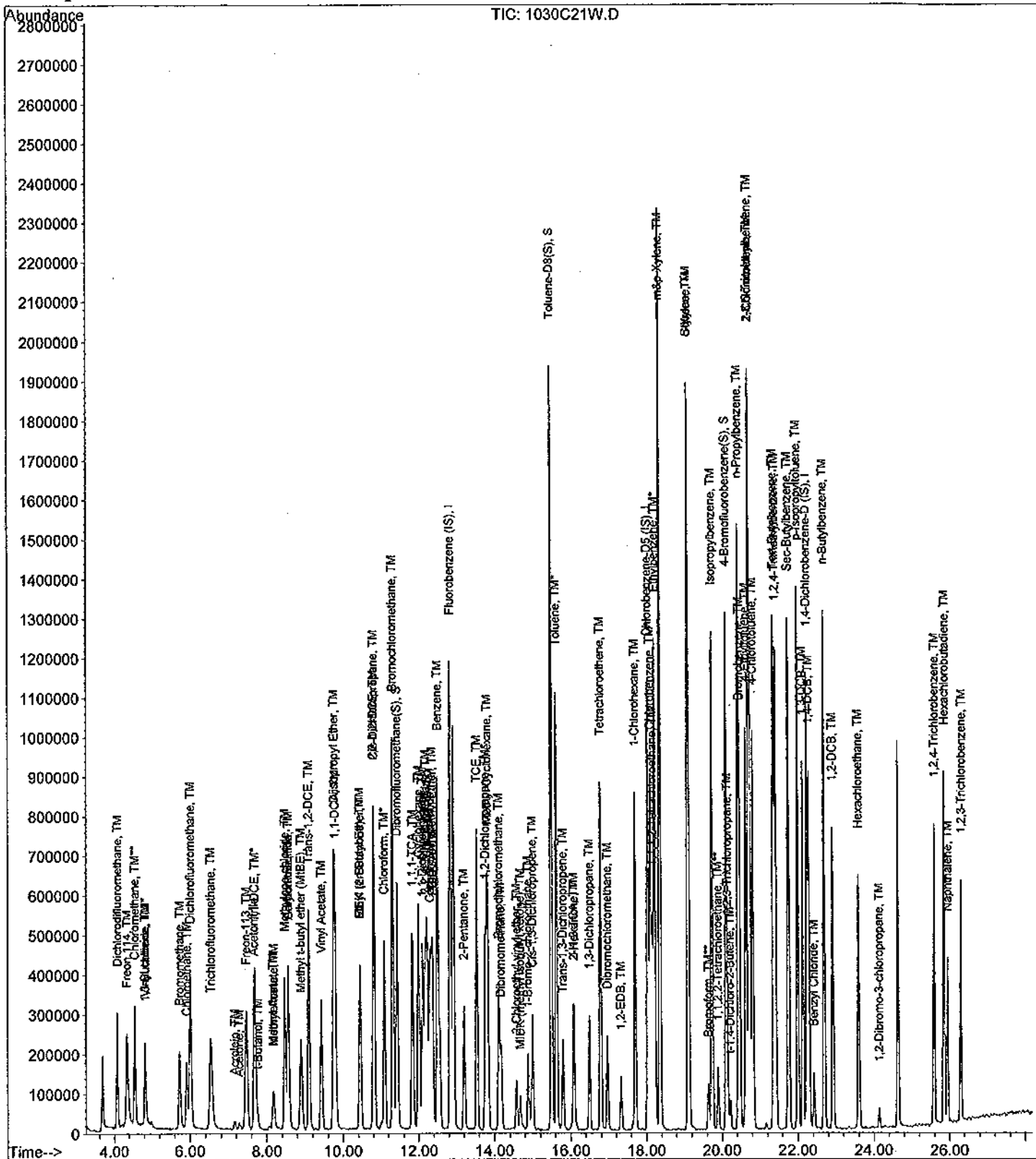
Data File : M:\CHICO\DATA\C111030\1030C21W.D
Acq On : 31 Oct 11 3:46
Sample : Voc Std 10-30-11@20ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Dec 02 11:18:49 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C22W.D
 Acq On : 31 Oct 11 4:29
 Sample : Voc Std 10-30-11@40ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)

Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	96	576384	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.03	117	400384	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.24	152	224000	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.43	111	1201490	78.25231	ppb	0.00
Spiked Amount	25.097		Recovery	=	311.795%	
38) 1,2-DCA-D4(S)	12.23	65	1017043	74.41171	ppb	0.00
Spiked Amount	24.225		Recovery	=	307.167%	
56) Toluene-D8(S)	15.50	98	4141980	73.52293	ppb	0.00
Spiked Amount	25.808		Recovery	=	284.881%	
64) 4-Bromofluorobenzene(S)	20.11	95	1506838	74.64914	ppb	0.00
Spiked Amount	25.459		Recovery	=	293.207%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.07	85	884588	41.65551	ppb	100
3) Freon 114	4.33	85	557051	41.88358	ppb	95
4) Chloromethane	4.55	50	992312	37.70822	ppb	99
5) Vinyl chloride	4.81	62	582991	33.12037	ppb	100
6) 1,3-Butadiene	4.80	54	564	11.46497	ppb	93
7) Bromomethane	5.73	94	528649	41.37336	ppb	93
8) Chloroethane	5.91	64	531050	36.52439	ppb	99
9) Dichlorofluoromethane	6.01	67	1474925	36.68918	ppb	98
10) Trichlorofluoromethane	6.53	101	946797	39.68761	ppb	99
11) Acetonitrile	7.66	41	108364	171.62043	ug/l	100
12) Acrolein	7.16	56	48720	168.61606	ppb	96
13) Acetone	7.28	43	68038	41.20035	ppb	# 70
14) Freon-113	7.47	101	558655	43.47676	ppb	95
15) 1,1-DCE	7.68	96	585091	35.55608	ppb	97
16) t-Butanol	7.76	59	14424	184.59628	ppb	98
17) Methyl Acetate	8.19	43	191479	40.45406	ppb	95
18) Iodomethane	8.17	142	457316	35.89956	ppb	95
19) Acrylonitrile	8.56	53	70209	39.92472	ppb	91
20) Methylene chloride	8.48	84	561985	35.80590	ppb	98
21) Carbon disulfide	8.56	76	582016	36.40182	ppb	99
22) Methyl t-butyl ether (MtBE)	8.89	73	959832	38.59078	ppb	96
23) Trans-1,2-DCE	9.10	96	690130	41.05681	ppb	94
24) Diisopropyl Ether	9.75	45	2070362	37.65279	ppb	97
25) 1,1-DCA	9.79	63	1270640	38.96588	ppb	96
26) Vinyl Acetate	9.42	43	392586	42.94098	ppb	95
27) Ethyl tert Butyl Ether	10.45	59	1446892	38.54337	ppb	98
28) MEK (2-Butanone)	10.44	43	249429	39.96063	ppb	# 93
29) Cis-1,2-DCE	10.82	96	701038	35.73563	ppb	95
30) 2,2-Dichloropropane	10.81	77	853458	36.53678	ppb	99
31) Chloroform	11.10	83	1207454	38.49020	ppb	99
32) Bromochloromethane	11.32	128	209048	38.27688	ppb	92
34) 1,1,1-TCA	11.83	97	1115691	39.10753	ppb	98
35) Cyclohexane	12.00	56	1027386	38.67839	ppb	97
36) 1,1-Dichloropropene	12.10	75	915628	37.45644	ppb	98
37) 2,2,4-Trimethylpentane	12.18	57	1588067	41.27686	ppb	96
39) Carbon Tetrachloride	12.30	117	845279	43.02829	ppb	95

(#) = qualifier out of range (m) = manual integration
 1030C22W.D CALLW.M Fri Dec 02 11:21:22 2011

Data File : M:\CHICO\DATA\C111030\1030C22W.D
 Acq On : 31 Oct 11 4:29
 Sample : Voc Std 10-30-11@40ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40) Tert Amyl Methyl Ether	12.34	73	1064298	37.91715	ppb	95
41) 1,2-DCA	12.37	62	609966	37.87992	ppb	96
42) Benzene	12.50	78	2667822	37.98569	ppb	98
43) TCE	13.53	95	750591	38.58882	ppb	94
44) 2-Pentanone	13.20	43	723061	177.71021	ppb	99
45) 1,2-Dichloropropane	13.77	63	624547	39.12345	ppb	95
46) Bromodichloromethane	14.12	83	773755	42.42635	ppb	95
47) Methyl Cyclohexane	13.82	83	868699	38.21751	ppb	98
48) Dibromomethane	14.17	93	250020	39.16182	ppb	86
49) 2-Chloroethyl vinyl ether	14.57	63	173802	42.82620	ppb	95
50) 1-Bromo-2-chloroethane	14.89	63	541199	39.73256	ppb	83
51) Cis-1,3-Dichloropropene	15.00	75	712500	40.97032	ppb	95
52) Toluene	15.63	91	2650413	38.26138	ppb	99
53) Trans-1,3-Dichloropropene	15.80	75	518508	41.41431	ppb	91
54) 1,1,2-TCA	16.08	83	269238	39.89943	ppb	93
57) 1,2-EDB	17.33	107	320516	42.06127	ppb	96
58) Tetrachloroethene	16.79	164	705793	34.28742	ppb	95
59) 1-Chlorohexane	17.70	91	907243	38.27319	ppb	95
60) 1,1,1,2-Tetrachloroethane	18.16	131	576678	44.74892	ppb	93
61) m&p-Xylene	18.35	106	2337444	76.86502	ppb	99
62) o-Xylene	19.11	106	1156368	39.53885	ppb	94
63) Styrene	19.13	104	1785628	40.45023	ppb	97
65) 2-Hexanone	16.10	43	145250	39.64659	ppb	96
66) 1,3-Dichloropropane	16.49	76	597192	39.74260	ppb	95
67) Dibromochloromethane	16.97	129	435261	44.37095	ppb	90
68) Chlorobenzene	18.10	112	1658874	38.13292	ppb	97
69) Ethylbenzene	18.22	91	3057452	37.74292	ppb	98
70) Bromoform	19.64	173	213787	38.87093	ppb	# 77
72) MIBK (methyl isobutyl keto)	14.67	43	228387	35.86526	ppb	86
73) Isopropylbenzene	19.74	105	2989202	36.81944	ppb	100
74) 1,1,2,2-Tetrachloroethane	19.90	83	276570	40.69597	ppb	85
75) 1,2,3-Trichloropropane	20.15	110	27712	36.12043	ppb	# 64
76) t-1,4-Dichloro-2-Butene	20.23	53	63970	41.51275	ppb	# 73
77) Bromobenzene	20.47	156	676448	36.12176	ppb	94
78) n-Propylbenzene	20.44	91	3526664	36.41330	ppb	96
79) 4-Ethyltoluene	20.64	105	2418588	36.08622	ppb	96
80) 2-Chlorotoluene	20.74	91	2324947	36.24591	ppb	98
81) 1,3,5-Trimethylbenzene	20.71	105	2435760	36.94036	ppb	97
82) 4-Chlorotoluene	20.82	91	1999529	36.20126	ppb	95
83) Tert-Butylbenzene	21.36	119	2659556	37.25529	ppb	98
84) 1,2,4-Trimethylbenzene	21.42	105	2416954	35.09648	ppb	97
85) Sec-Butylbenzene	21.76	105	3268087	38.17382	ppb	99
86) p-Isopropyltoluene	21.99	119	2796609	38.13811	ppb	99
87) Benzyl Chloride	22.42	91	391533	40.22322	ppb	98
88) 1,3-DCB	22.12	146	1411201	36.84871	ppb	99
89) 1,4-DCB	22.30	146	1322903	37.21752	ppb	96
90) Hexachloroethane	23.60	117	488322	36.68408	ppb	93
91) n-Butylbenzene	22.70	91	2299832	35.95845	ppb	98
92) 1,2-DCB	22.93	146	1152377	37.82968	ppb	95
93) 1,2-Dibromo-3-chloropropan	24.14	155	45893	38.08788	ppb	96
94) 1,2,4-Trichlorobenzene	25.59	180	808556	36.62946	ppb	98

(#) = qualifier out of range (m) = manual integration
 1030C22W.D CALLW.M Fri Dec 02 11:21:23 2011

Data File : M:\CHICO\DATA\C111030\1030C22W.D Vial: 1
Acq On : 31 Oct 11 4:29 Operator: STC
Sample : Voc Std 10-30-11@40ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Dec 02 11:18:49 2011
Response via : Initial Calibration
DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) Hexachlorobutadiene	25.84	223	149142	37.18851	ppb	98
96) Naphthalene	25.94	128	1030307	37.82960	ppb	97
97) 1,2,3-Trichlorobenzene	26.29	180	633099	37.91681	ppb	96

Quantitation Report

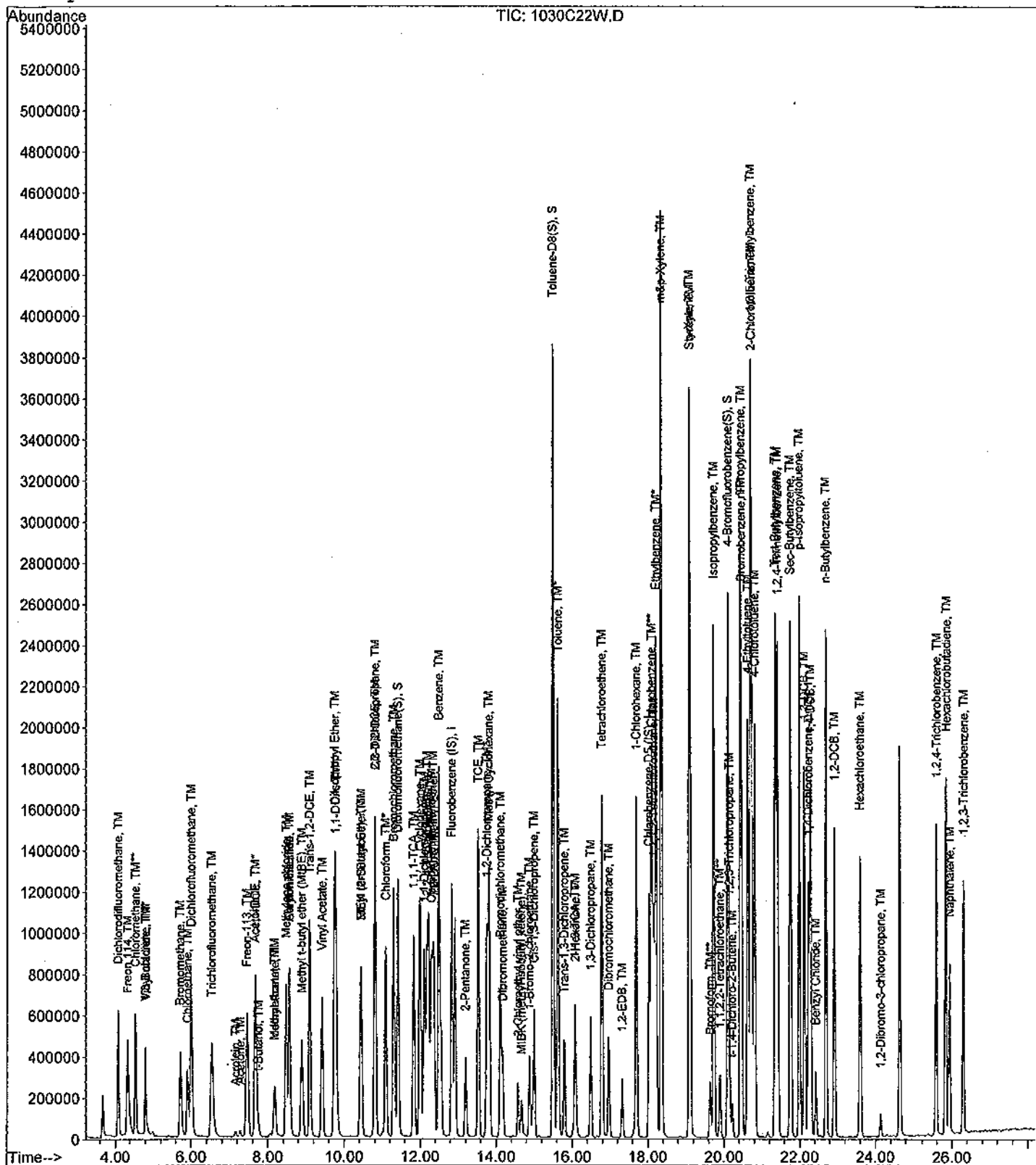
Data File : M:\CHICO\DATA\C111030\1030C22W.D
Acq On : 31 Oct 11 4:29
Sample : Voc Std 10-30-11@40ug/L
Misc : Water 10mL/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Dec 02 11:18:49 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C23W.D Vial: 1
 Acq On : 31 Oct 11 5:12 Operator: STC
 Sample : Voc Std 10-30-11@100ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)

Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.83	96	629184	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.04	117	438080	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.25	152	225856	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.42	111	1562107	93.20132	ppb	0.00
Spiked Amount	25.097		Recovery	=	371.359%	
38) 1,2-DCA-D4(S)	12.22	65	1315432	88.16671	ppb	0.00
Spiked Amount	24.225		Recovery	=	363.946%	
56) Toluene-D8(S)	15.50	98	5498133	89.19764	ppb	0.00
Spiked Amount	25.808		Recovery	=	345.617%	
64) 4-Bromofluorobenzene(S)	20.11	95	1999086	90.51343	ppb	0.00
Spiked Amount	25.459		Recovery	=	355.518%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.07	85	2034576	87.76868	ppb	100
3) Freon 114	4.33	85	1349868	92.97677	ppb	99
4) Chloromethane	4.55	50	2507323	87.28354	ppb	98
5) Vinyl chloride	4.80	62	1338572	69.66414	ppb	97
6) 1,3-Butadiene	4.78	54	294	5.47489	ppb	# 41
7) Bromomethane	5.72	94	1399435	100.33221	ppb	96
8) Chloroethane	5.92	64	1334347	84.07184	ppb	99
9) Dichlorofluoromethane	6.00	67	3757858	85.63331	ppb	99
10) Trichlorofluoromethane	6.53	101	2271251	87.21626	ppb	100
11) Acetonitrile	7.65	41	142197	206.30447	ug/l	100
12) Acrolein	7.15	56	57928	183.65994	ppb	89
13) Acetone	7.27	43	177387	98.40233	ppb	# 80
14) Freon-113	7.46	101	1359710	98.36336	ppb	98
15) 1,1-DCE	7.69	96	1502451	83.64213	ppb	95
16) t-Butanol	7.69	59	21608	253.32966	ppb	# 70
17) Methyl Acetate	8.19	43	511503	99.99402	ppb	97
18) Iodomethane	8.16	142	1532807	102.31499	ppb	90
19) Acrylonitrile	8.57	53	190766	99.94302	ppb	88
20) Methylene chloride	8.47	84	1482941	86.55417	ppb	98
21) Carbon disulfide	8.56	76	1504256	86.18747	ppb	99
22) Methyl t-butyl ether (MtBE)	8.90	73	2423605	89.26566	ppb	93
23) Trans-1,2-DCE	9.10	96	1783146	97.17967	ppb	95
24) Diisopropyl Ether	9.75	45	5216937	86.91619	ppb	95
25) 1,1-DCA	9.80	63	3188094	89.56273	ppb	96
26) Vinyl Acetate	9.42	43	966738	98.81188	ppb	94
27) Ethyl tert Butyl Ether	10.44	59	3675155	89.68576	ppb	98
28) MEK (2-Butanone)	10.42	43	621214	92.04576	ppb	# 87
29) Cis-1,2-DCE	10.82	96	1784148	83.31536	ppb	92
30) 2,2-Dichloropropane	10.81	77	2060873	80.82274	ppb	96
31) Chloroform	11.09	83	3040045	88.77564	ppb	96
32) Bromochloromethane	11.32	128	540554	90.67004	ppb	82
34) 1,1,1-TCA	11.84	97	2777762	89.19608	ppb	98
35) Cyclohexane	12.00	56	2517542	86.82519	ppb	98
36) 1,1-Dichloropropene	12.11	75	2351054	88.10577	ppb	97
37) 2,2,4-Trimethylpentane	12.18	57	4108345	99.40223	ppb	96
39) Carbon Tetrachloride	12.30	117	2194045	102.31369	ppb	94

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

1030C23W.D CALLW.M Fri Dec 02 11:21:28 2011

Data File : M:\CHICO\DATA\C111030\1030C23W.D
 Acq On : 31 Oct 11 5:12
 Sample : Voc Std 10-30-11@100ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40) Tert Amyl Methyl Ether	12.35	73	2816735	91.92902	ppb	99
41) 1,2-DCA	12.38	62	1561150	88.81419	ppb	98
42) Benzene	12.49	78	6991851	91.19889	ppb	98
43) TCE	13.54	95	1880975	88.58811	ppb	90
44) 2-Pentanone	13.20	43	881325	198.43021	ppb	99
45) 1,2-Dichloropropane	13.76	63	1582643	90.82163	ppb	96
46) Bromodichloromethane	14.11	83	1954559	98.17824	ppb	# 91
47) Methyl Cyclohexane	13.82	83	2215169	89.27589	ppb	99
48) Dibromomethane	14.17	93	660037	94.70886	ppb	92
49) 2-Chloroethyl vinyl ether	14.57	63	484281	109.31668	ppb	95
50) 1-Bromo-2-chloroethane	14.88	63	1381119	92.88701	ppb	92
51) Cis-1,3-Dichloropropene	15.00	75	1816087	95.66550	ppb	93
52) Toluene	15.64	91	6789315	89.78572	ppb	99
53) Trans-1,3-Dichloropropene	15.80	75	1379809	100.95973	ppb	94
54) 1,1,2-TCA	16.08	83	670730	91.05678	ppb	90
57) 1,2-EDB	17.32	107	832657	99.86703	ppb	98
58) Tetrachloroethene	16.79	164	1730703	76.84281	ppb	95
59) 1-Chlorohexane	17.71	91	2353794	90.75337	ppb	91
60) 1,1,1,2-Tetrachloroethane	18.16	131	1508942	107.01509	ppb	94
61) m&p-Xylene	18.36	106	6180125	185.74112	ppb	97
62) o-Xylene	19.10	106	3002956	93.84264	ppb	92
63) Styrene	19.12	104	4577224	94.76663	ppb	100
65) 2-Hexanone	16.10	43	375289	93.62219	ppb	94
66) 1,3-Dichloropropane	16.49	76	1470502	89.43988	ppb	98
67) Dibromochloromethane	16.97	129	1191759	111.03520	ppb	92
68) Chlorobenzene	18.11	112	4271113	89.73276	ppb	97
69) Ethylbenzene	18.22	91	8013287	90.40861	ppb	94
70) Bromoform	19.64	173	616423	100.58038	ppb	# 81
72) MIBK (methyl isobutyl keto)	14.67	43	581084	90.50195	ppb	93
73) Isopropylbenzene	19.74	105	7614687	93.02299	ppb	99
74) 1,1,1,2,2-Tetrachloroethane	19.90	83	720253	105.11090	ppb	88
75) 1,2,3-Trichloropropane	20.16	110	78648	101.50443	ppb	# 68
76) t-1,4-Dichloro-2-Butene	20.22	53	179966	115.82759	ppb	# 75
77) Bromobenzene	20.48	156	1766849	93.57294	ppb	97
78) n-Propylbenzene	20.45	91	9038917	92.56114	ppb	95
79) 4-Ethyltoluene	20.64	105	6293560	93.13058	ppb	93
80) 2-Chlorotoluene	20.74	91	5791730	89.55104	ppb	98
81) 1,3,5-Trimethylbenzene	20.72	105	6243237	93.90589	ppb	96
82) 4-Chlorotoluene	20.81	91	5272321	94.67040	ppb	97
83) Tert-Butylbenzene	21.36	119	6787695	94.30127	ppb	99
84) 1,2,4-Trimethylbenzene	21.41	105	6234859	89.79211	ppb	97
85) Sec-Butylbenzene	21.76	105	8294079	96.08521	ppb	99
86) p-Isopropyltoluene	21.99	119	7113742	96.21480	ppb	98
87) Benzyl Chloride	22.43	91	1035237	105.47867	ppb	97
88) 1,3-DCB	22.13	146	3600903	93.25266	ppb	96
89) 1,4-DCB	22.29	146	3434577	95.83166	ppb	96
90) Hexachloroethane	23.60	117	1413252	101.62319	ppb	97
91) n-Butylbenzene	22.70	91	5960168	92.42293	ppb	99
92) 1,2-DCB	22.92	146	2973338	96.80520	ppb	95
93) 1,2-Dibromo-3-chloropropan	24.14	155	125399	101.01251	ppb	95
94) 1,2,4-Trichlorobenzene	25.58	180	2057289	92.43409	ppb	98

(#) = qualifier out of range (m) = manual integration
 1030C23W.D CALLW.M Fri Dec 02 11:21:29 2011

Data File : M:\CHICO\DATA\C111030\1030C23W.D Vial: 1
 Acq On : 31 Oct 11 5:12 Operator: STC
 Sample : Voc Std 10-30-11@100ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) Hexachlorobutadiene	25.83	223	370844	91.70996	ppb	98
96) Naphthalene	25.93	128	2644717	96.30764	ppb	98
97) 1,2,3-Trichlorobenzene	26.30	180	1614041	95.87185	ppb	100

Quantitation Report

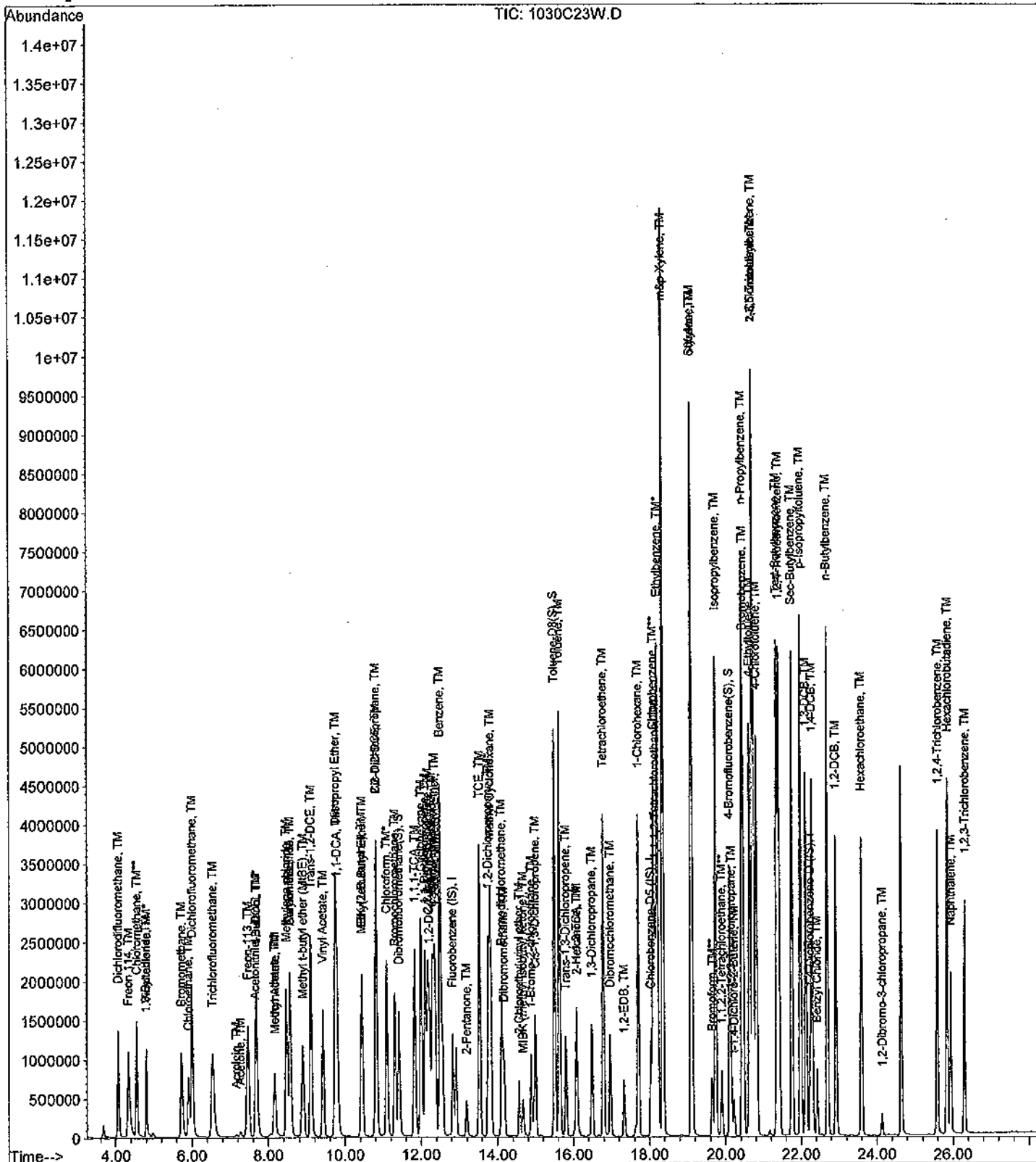
Data File : M:\CHICO\DATA\C111030\1030C23W.D
Acq On : 31 Oct 11 5:12
Sample : Voc Std 10-30-11@100ug/L
Misc : Water 10mLw/ IS:10-30-11

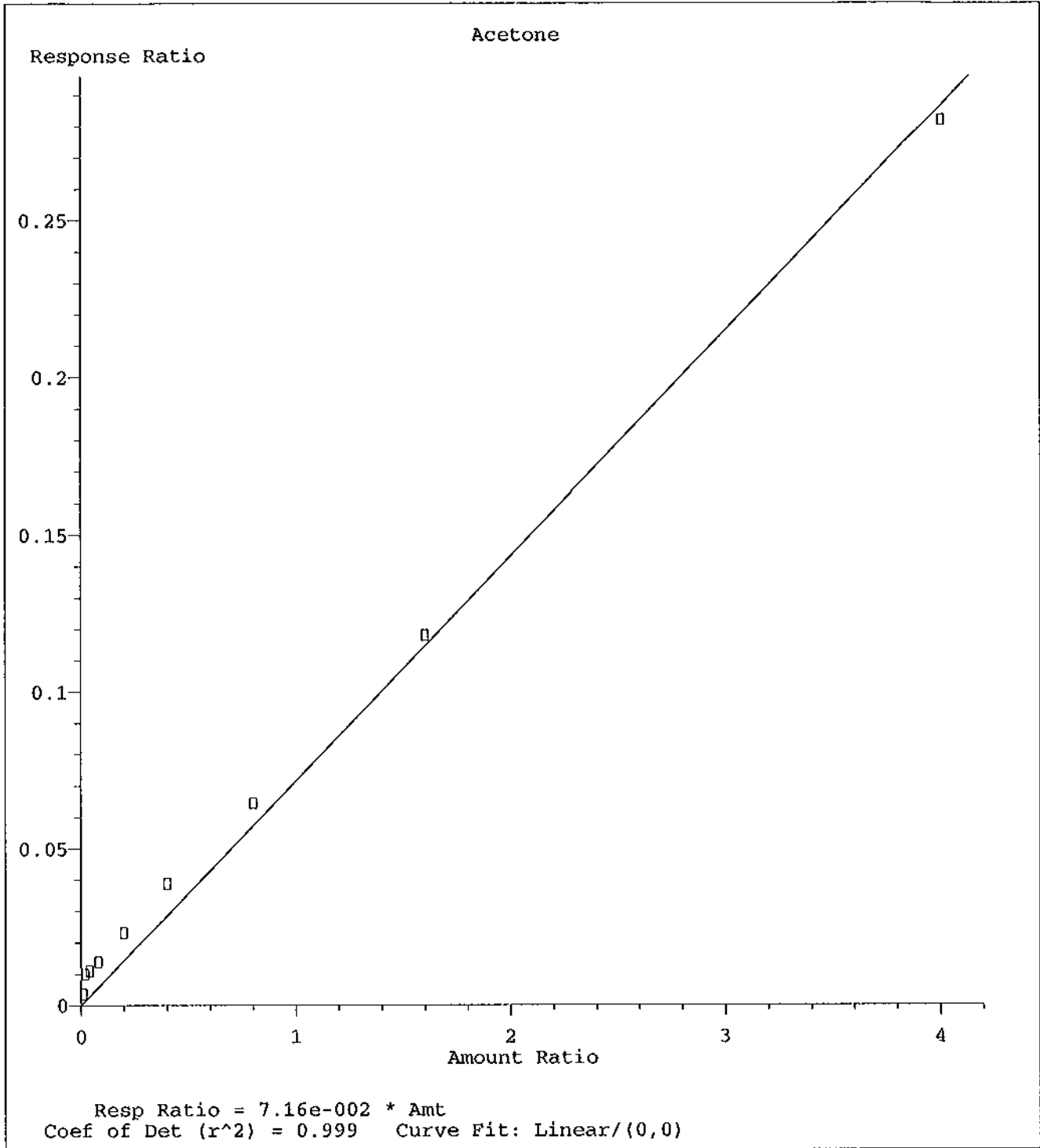
Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

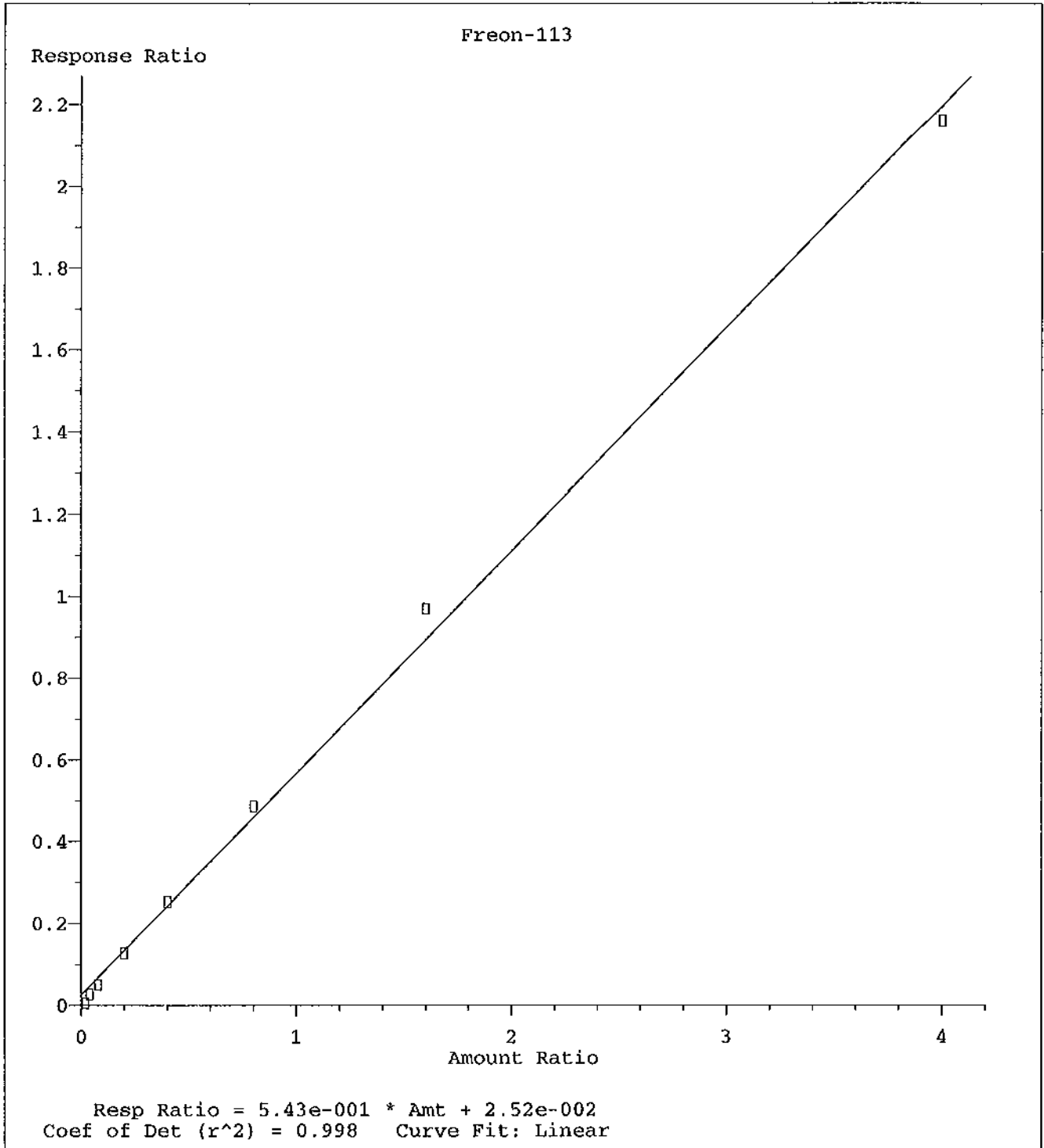
Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Dec 02 11:18:49 2011
Response via : Initial Calibration





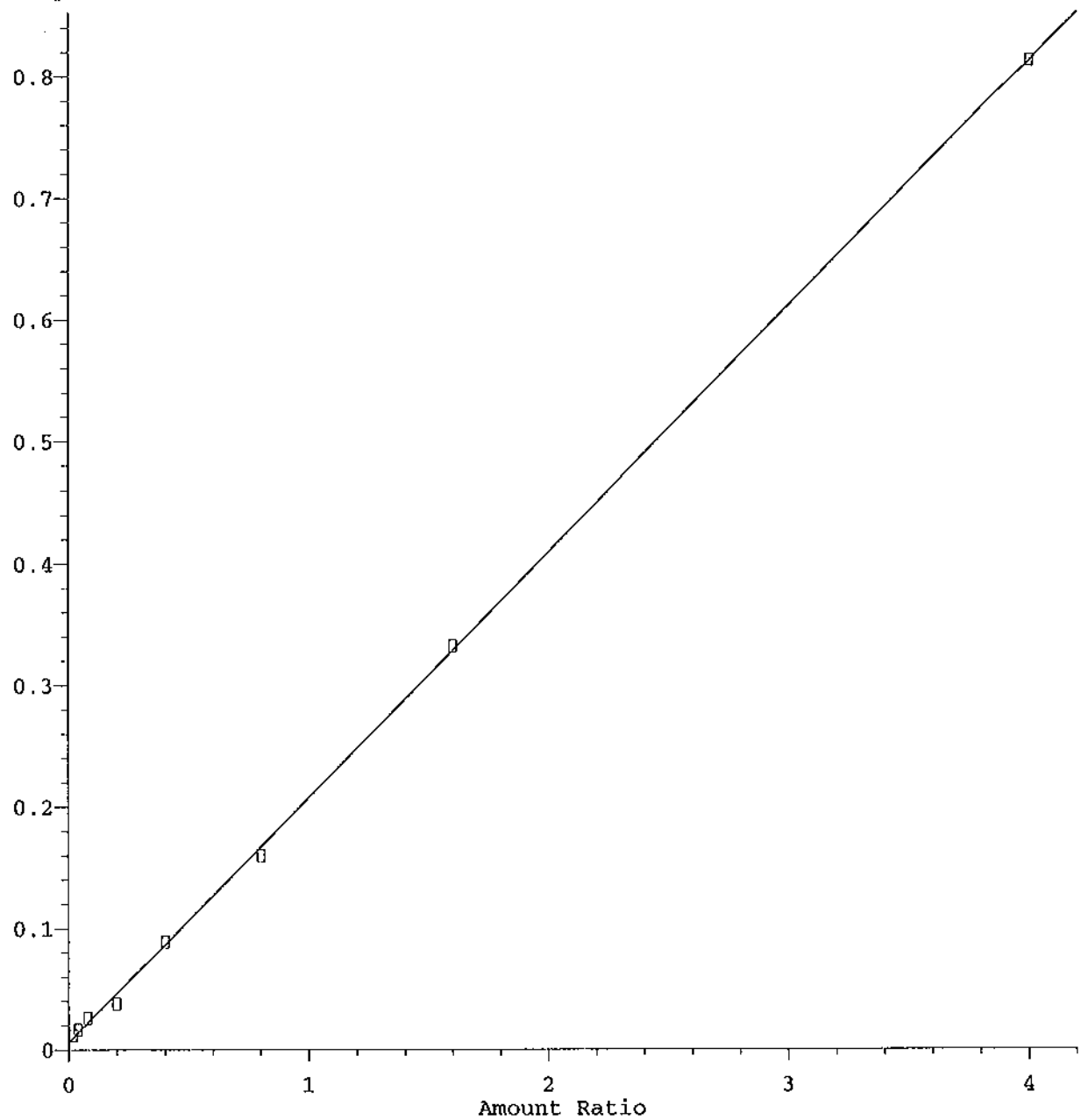
Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011



Method Name: M:\CHICO\DATA\C111030\CALLW.M
 Calibration Table Last Updated: Fri Dec 02 11:32:50 2011

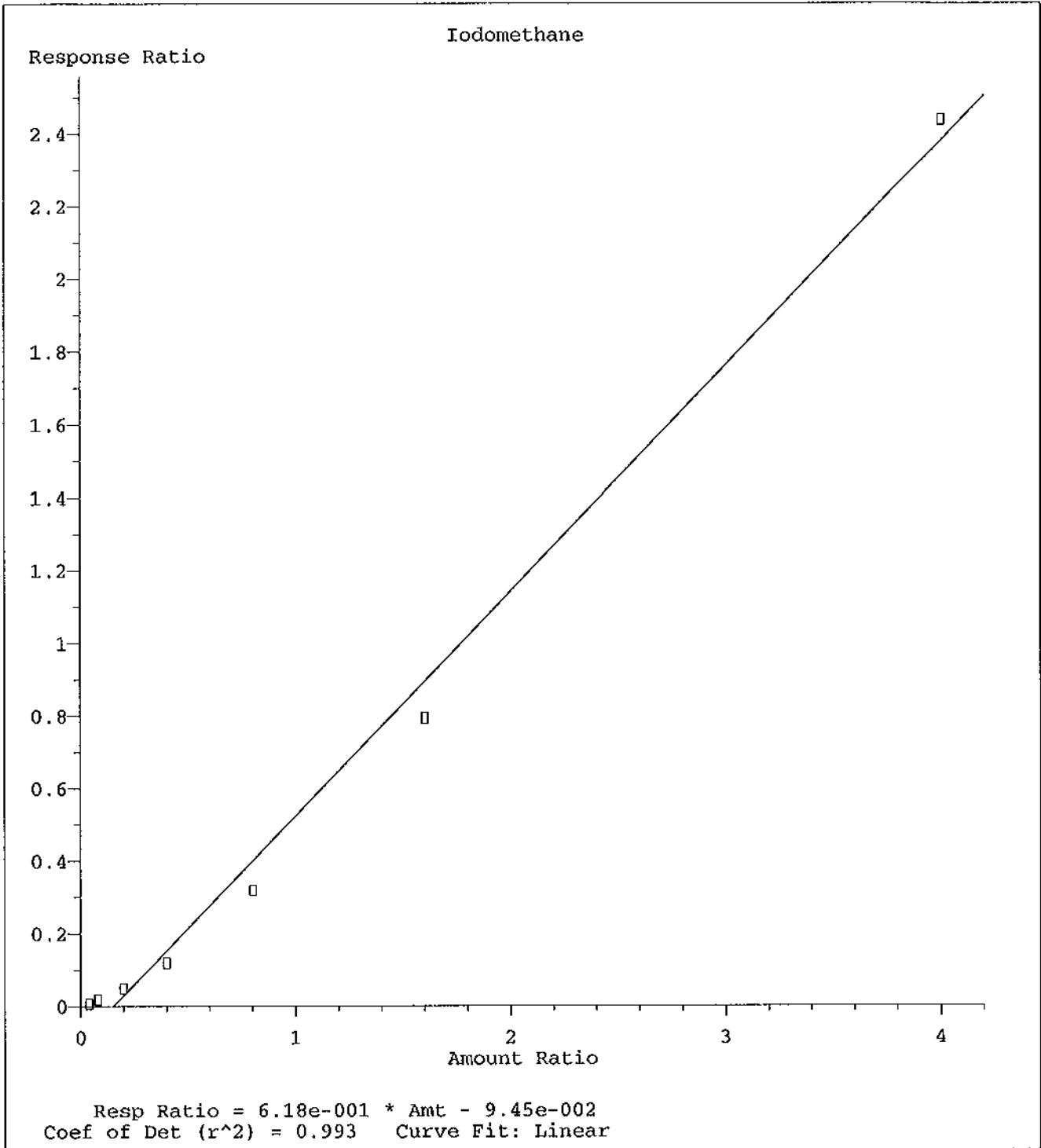
Methyl Acetate

Response Ratio

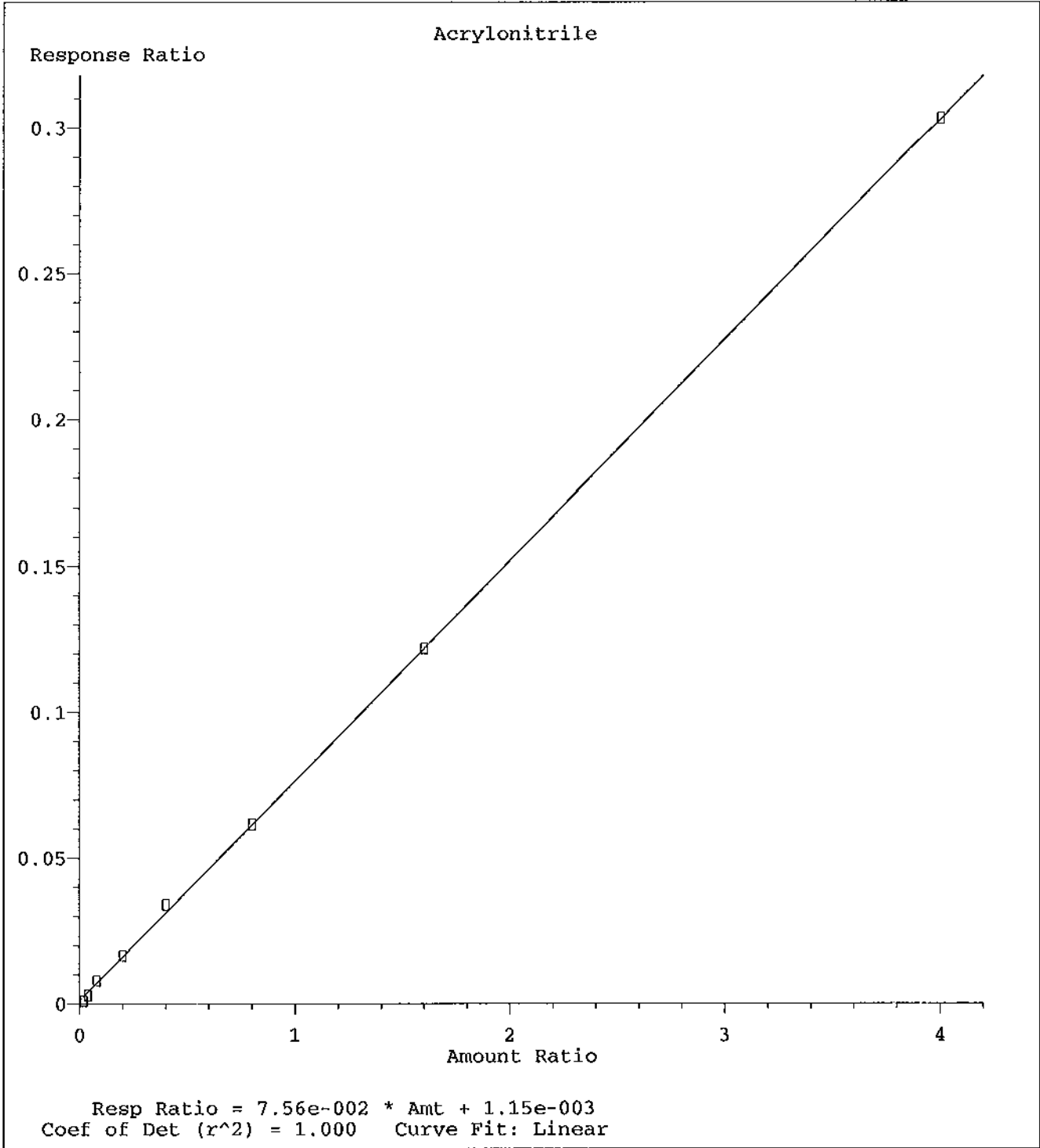


Resp Ratio = 2.02e-001 * Amt + 5.56e-003
Coef of Det (r^2) = 1.000 Curve Fit: Linear

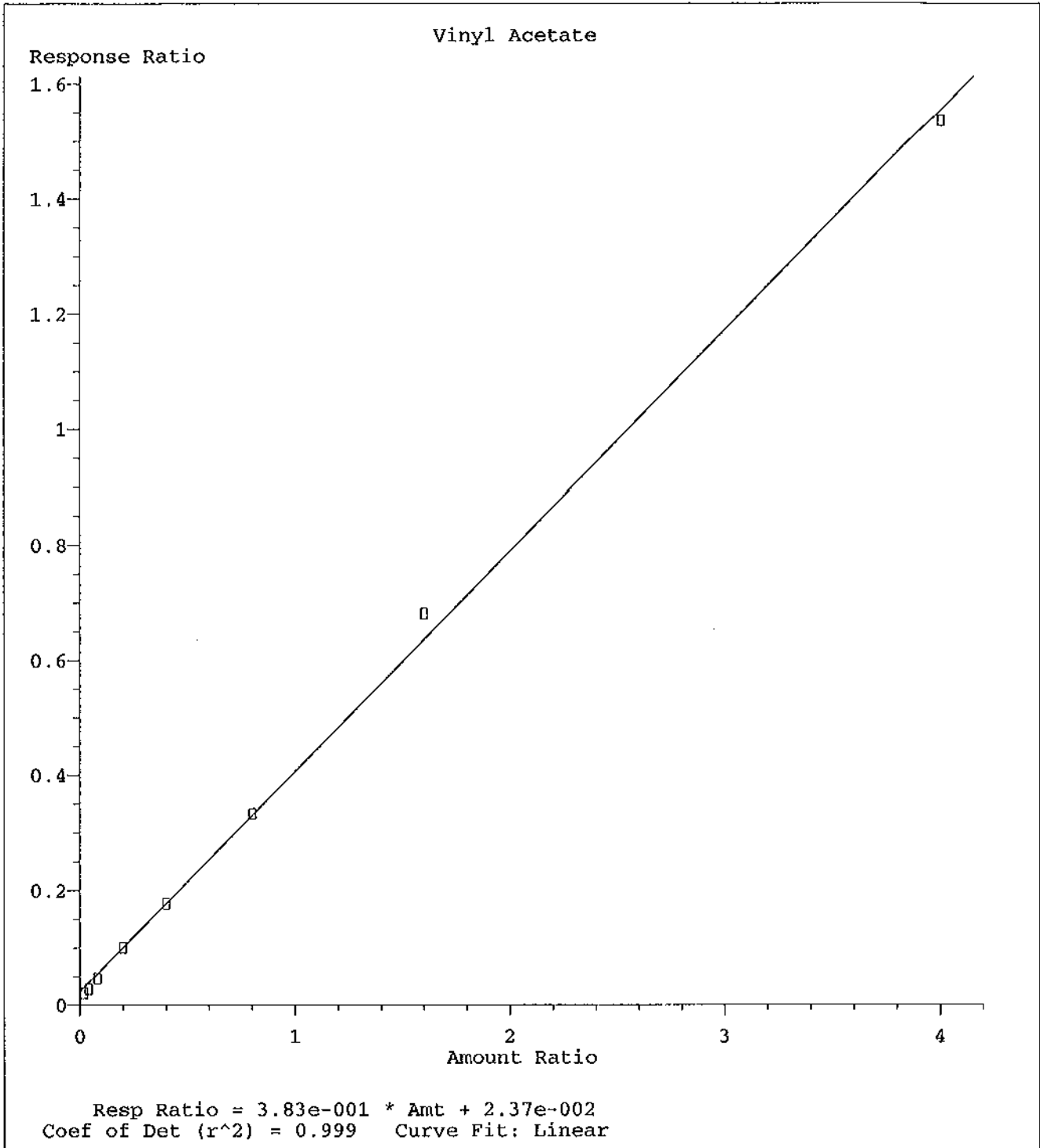
Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011



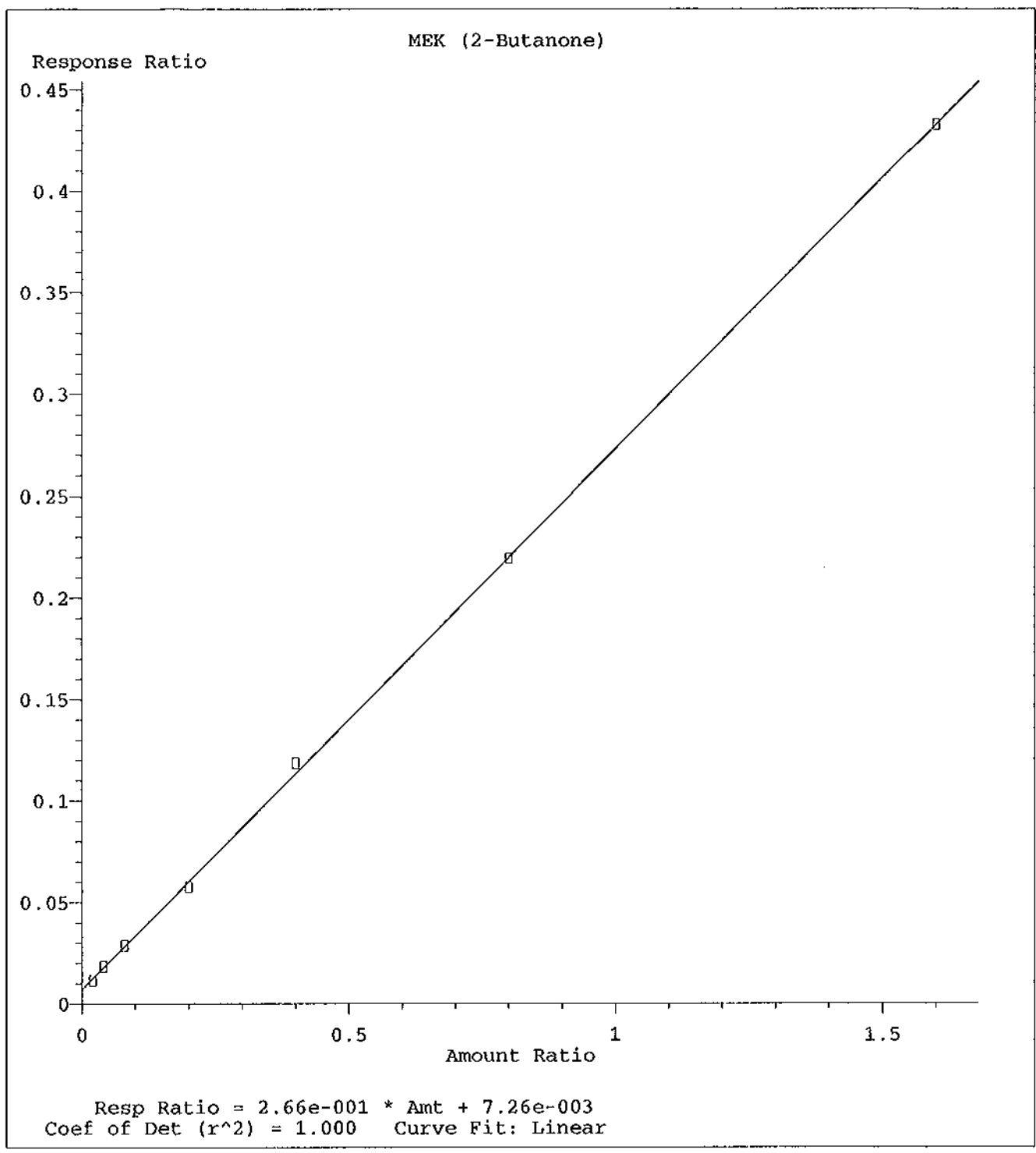
Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011



Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011



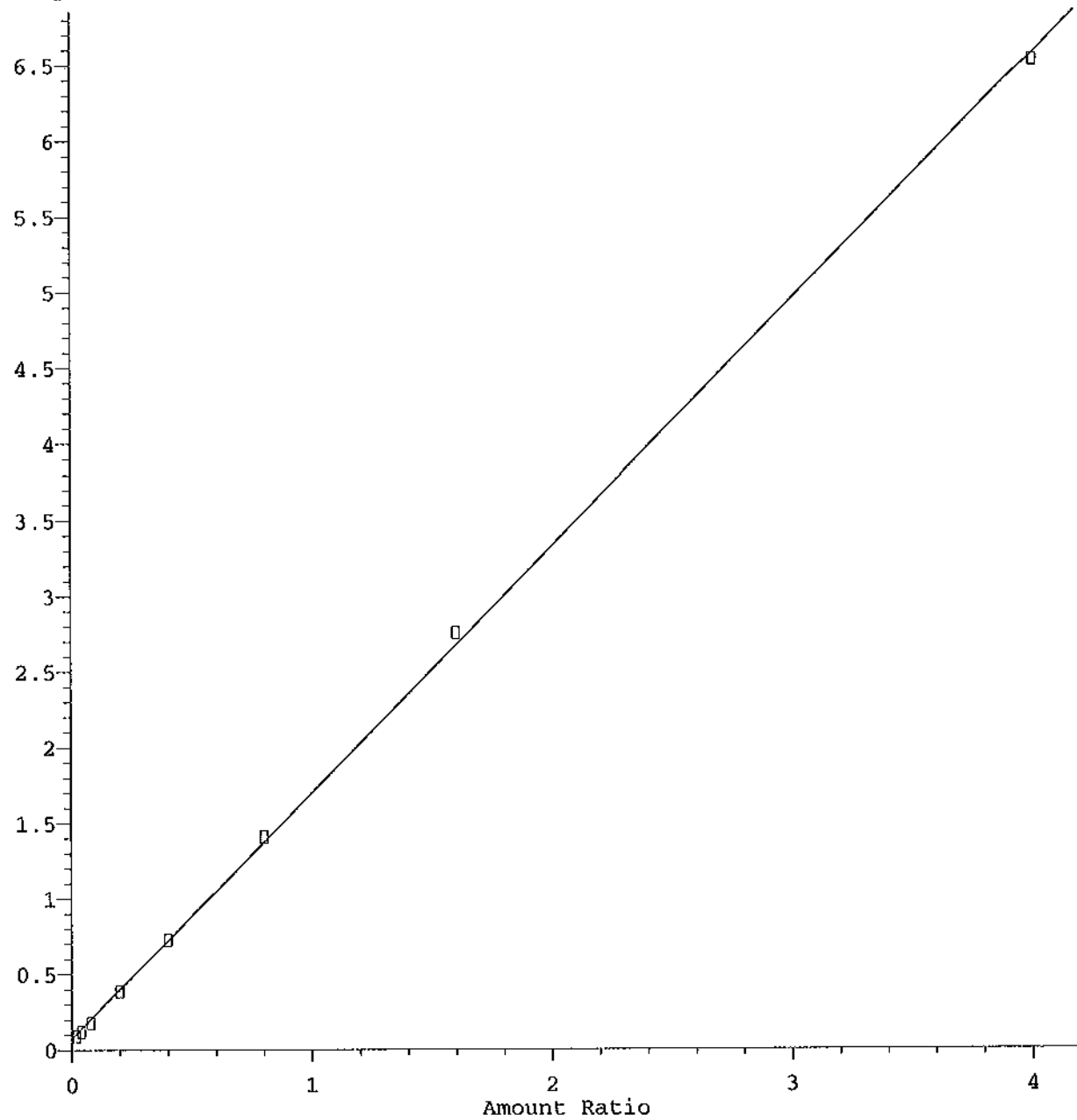
Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011



Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011

2,2,4-Trimethylpentane

Response Ratio

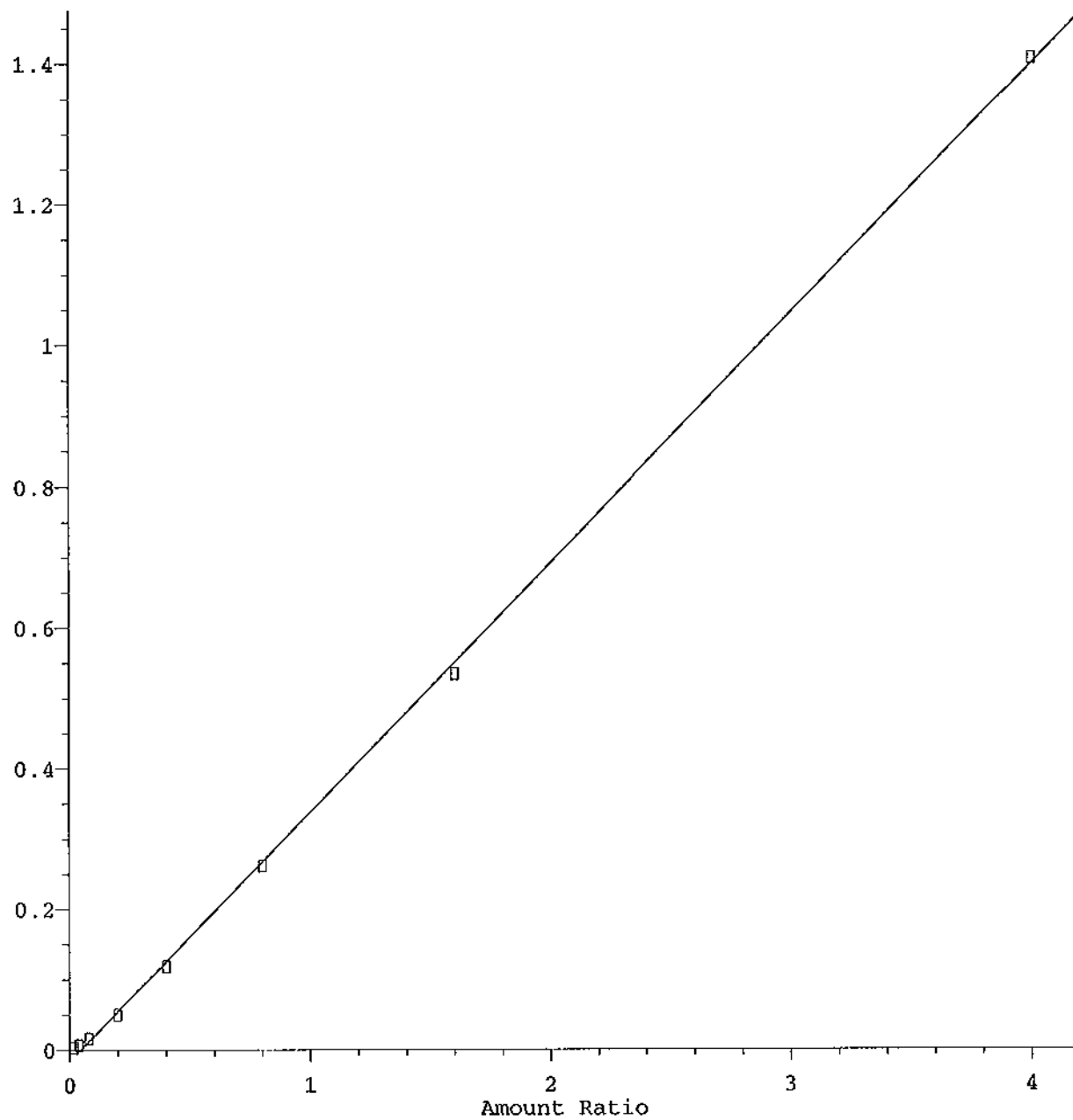


Resp Ratio = 1.62e+000 * Amt + 7.49e-002
Coef of Det (r^2) = 1.000 Curve Fit: Linear

Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011

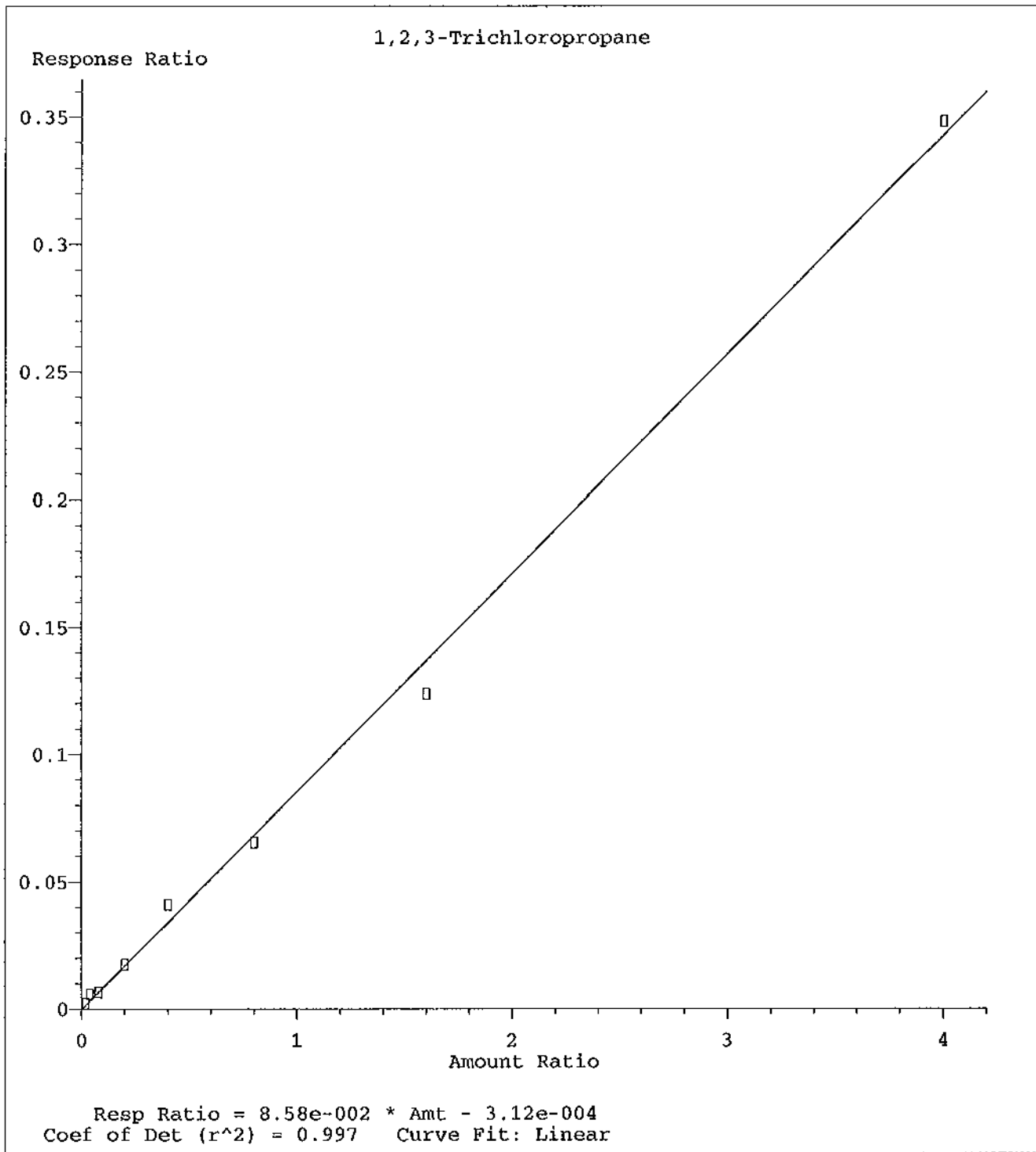
Bromoform

Response Ratio

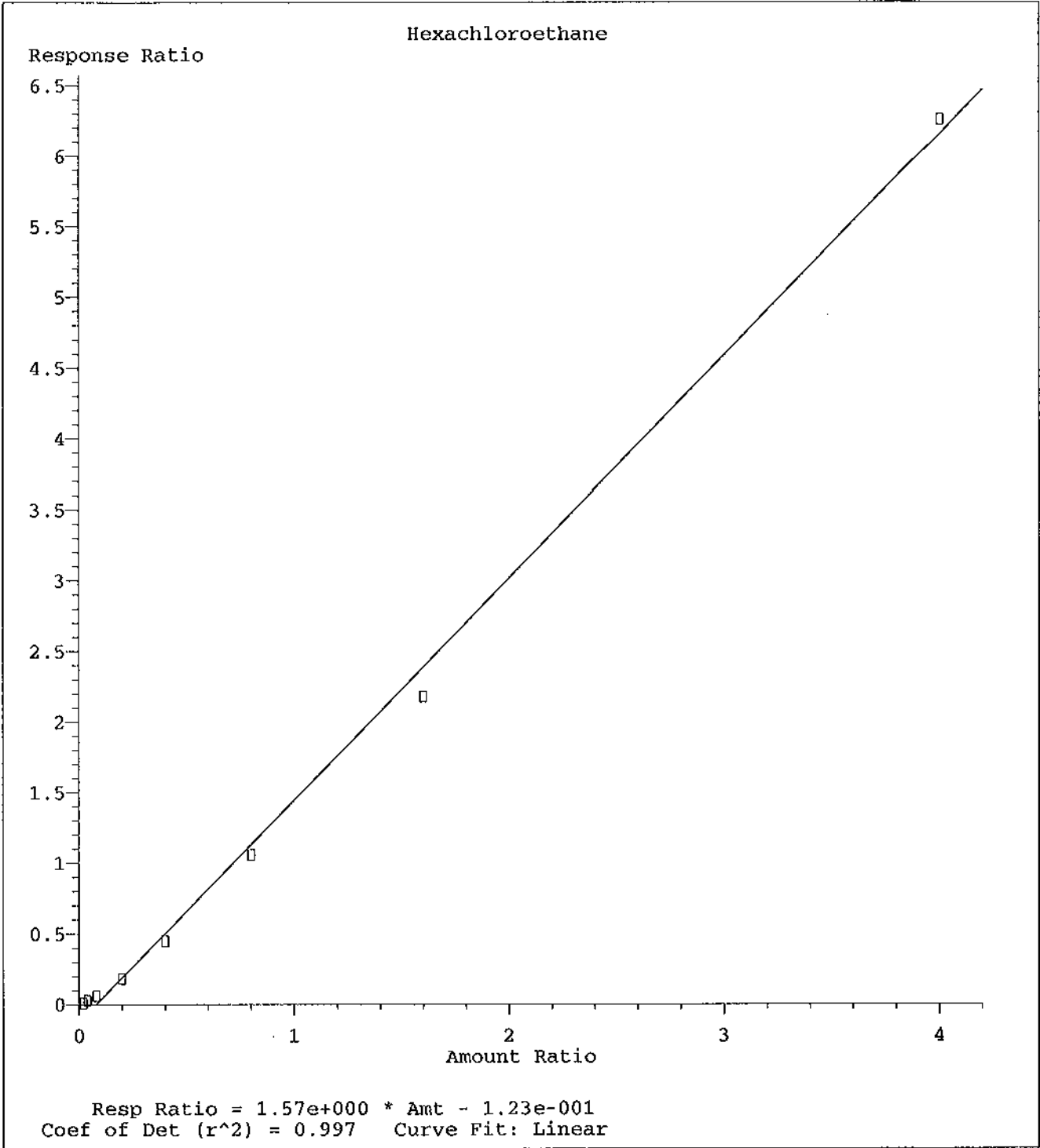


Resp Ratio = 3.54e-001 * Amt - 1.60e-002
Coef of Det (r^2) = 1.000 Curve Fit: Linear

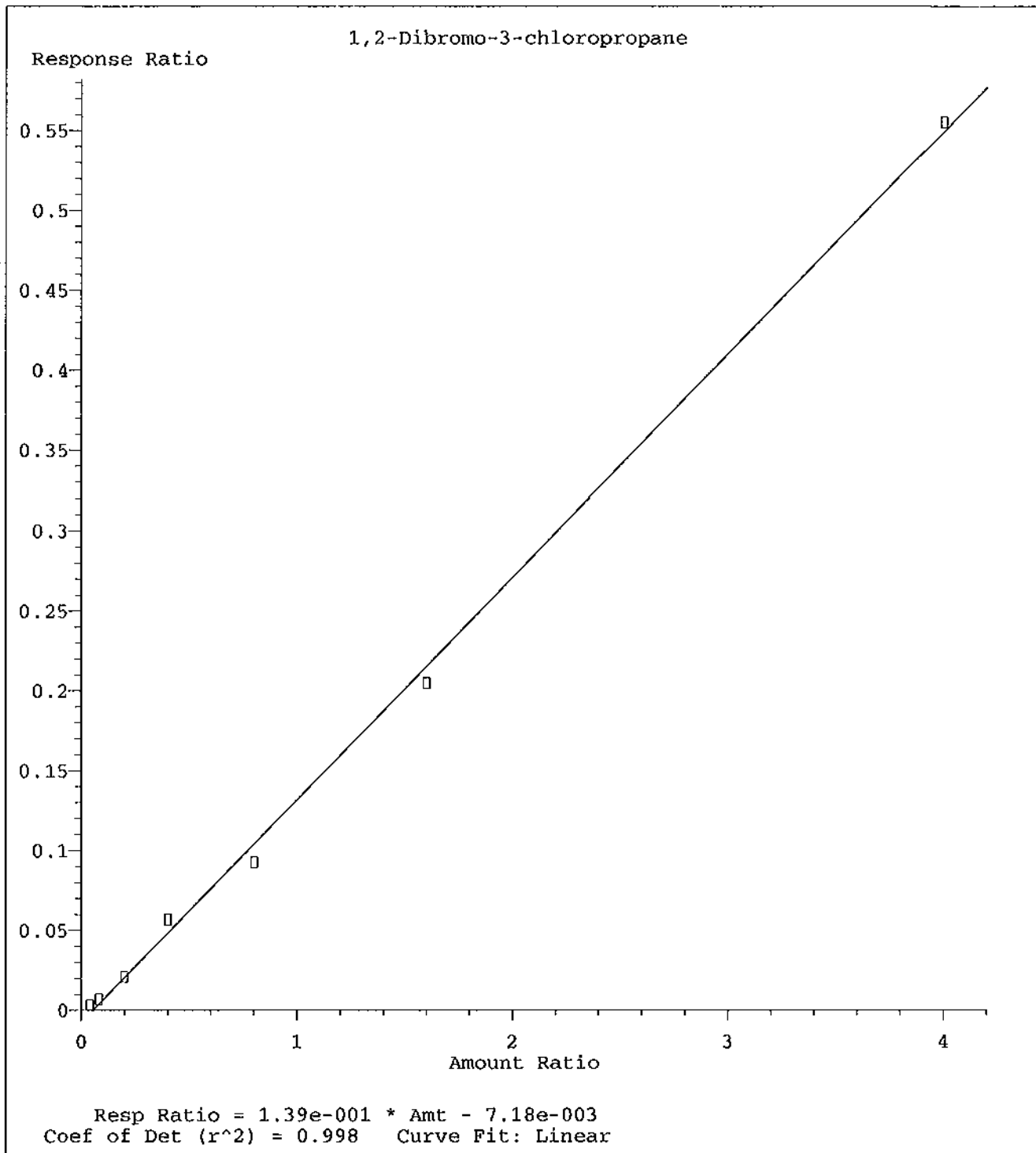
Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011



Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011



Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011



Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/31/11

Matrix: _____

Instrument: Chico

Initial Cal. Date: 10/30/11

Data File: 1030C28W.D

	Compound	MEAN	CCRF	%D	%Drift
1	I Fluorobenzene (IS)	ISTD			I
2	TM Dichlorodifluoromethane	0.9211	0.9249	0.42	TM
3	TM Freon 114	0.5769	0.6094	5.6	TM
4	TM** Chloromethane	1.141	1.076	5.8	TM**
5	TM* Vinyl chloride	0.7635	0.7773	1.8	TM*
6	TML 1,3-Butadiene	0.0000	0.0015	0.00	TML
7	TM Bromomethane	0.5542	0.4961	10	TM
8	TM Chloroethane	0.6306	0.5609	11	TM
9	TM Dichlorofluoromethane	1.744	1.607	7.8	TM
10	TM Trichlorofluoromethane	1.035	1.006	2.8	TM
11	Acetonitrile	0.0274	0.0263	4.1	
12	TM Acrolein	0.0125	0.0115	8.4	TM
13	TML Acetone	0.1859	0.0931	50	TML 30*
14	TML Freon-113	0.5715	0.5758	0.75	TML 5.5
15	TM* 1,1-DCE	0.7137	0.6303	12	TM*
16	TM t-Butanol	0.0034	0.0035	3.5	TM
17	TML Methyl Acetate	0.2927	0.2030	31	TML 6.3
18	TML Iodomethane	0.3500	0.4253	21	TML 7.0
19	TML Acrylonitrile	0.0764	0.0746	2.3	TML 5.1
20	TM Methylene chloride	0.6808	0.6159	9.5	TM
21	TM Carbon disulfide	0.6935	0.6450	7.0	TM
22	TM Methyl t-butyl ether (MtBE)	1.079	1.046	3.1	TM
23	TM Trans-1,2-DCE	0.8280	0.7496	9.5	TM
24	TM Diisopropyl Ether	2.385	2.306	3.3	TM
25	TM** 1,1-DCA	1.414	1.411	0.23	TM**
26	TML Vinyl Acetate	0.5623	0.4364	22	TML 1.5
27	TM Ethyl tert Butyl Ether	1.628	1.646	1.1	TM
28	TML MEK (2-Butanone)	0.3591	0.2972	17	TML 4.8
29	TM Cis-1,2-DCE	0.8509	0.7812	8.2	TM
30	TM 2,2-Dichloropropane	1.013	0.8669	14	TM
31	TM* Chloroform	1.361	1.332	2.1	TM*
32	TM Bromochloromethane	0.2369	0.2434	2.8	TM
33	S Dibromofluoromethane(S)	0.6660	0.6700	0.60	S
34	TM 1,1,1-TCA	1.237	1.182	4.5	TM
35	TM Cyclohexane	1.152	1.120	2.8	TM
36	TM 1,1-Dichloropropene	1.060	0.9998	5.7	TM
37	TML 2,2,4-Trimethylpentane	2.316	1.725	26	TML 5.3
38	S 1,2-DCA-D4(S)	0.5928	0.5784	2.4	S
39	TM Carbon Tetrachloride	0.8521	0.8321	2.3	TM
40	TM Tert Amyl Methyl Ether	1.217	1.216	0.15	TM

Average

8.3

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/31/11

Matrix: 0

Instrument: Chico

Cal. Date: 10/30/11

Data File: 1030C28W.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	1,2-DCA	0.6984	0.6709	3.9	TM
42	TM	Benzene	3.046	2.887	5.2	TM
43	TM	TCE	0.8437	0.8134	3.6	TM
44	TM	2-Pentanone	0.1765	0.1769	0.25	TM
45	TM*	1,2-Dichloropropane	0.6924	0.6963	0.57	TM*
46	TM	Bromodichloromethane	0.7910	0.7910	0.01	TM
47	TM	Methyl Cyclohexane	0.9859	0.9347	5.2	TM
48	TM	Dibromomethane	0.2769	0.2811	1.5	TM
49	TM	2-Chloroethyl vinyl ether	0.1760	0.1764	0.23	TM
50	TM	1-Bromo-2-chloroethane	0.5908	0.6129	3.7	TM
51	TM	Cis-1,3-Dichloropropene	0.7543	0.7571	0.37	TM
52	TM*	Toluene	3.005	2.824	6.0	TM*
53	TM	Trans-1,3-Dichloropropene	0.5430	0.5270	3.0	TM
54	TM	1,1,2-TCA	0.2927	0.2901	0.90	TM
55	I	Chlorobenzene-D5 (IS)	ISTD			I
56	S	Toluene-D8(S)	3.518	3.782	7.5	S
57	TM	1,2-EDB	0.4758	0.5074	6.6	TM
58	TM	Tetrachloroethene	1.285	1.296	0.81	TM
59	TM	1-Chlorohexane	1.480	1.493	0.86	TM
60	TM	1,1,1,2-Tetrachloroethane	0.8047	0.8891	10	TM
61	TM	m&p-Xylene	1.899	1.889	0.49	TM
62	TM	o-Xylene	1.826	1.894	3.7	TM
63	TM	Styrene	2.756	2.935	6.5	TM
64	S	4-Bromofluorobenzene(S)	1.260	1.394	11	S
65	TM	2-Hexanone	0.2288	0.2487	8.7	TM
66	TM	1,3-Dichloropropane	0.9383	0.9463	0.86	TM
67	TM	Dibromochloromethane	0.6125	0.6760	10	TM
68	TM**	Chlorobenzene	2.716	2.809	3.4	TM**
69	TM*	Ethylbenzene	5.058	5.094	0.71	TM*
70	TM**L	Bromoform	0.2607	0.2895	11	TM**L 6.8
71	I	1,4-Dichlorobenzene-D (IS)	ISTD			I
72	TM	MIBK (methyl isobutyl ketone)	0.7107	0.6949	2.2	TM
73	TM	Isopropylbenzene	9.061	8.888	1.9	TM
74	TM**	1,1,2,2-Tetrachloroethane	0.7585	0.7787	2.7	TM**
75	TML	1,2,3-Trichloropropane	0.0967	0.1006	4.1	TML 18
76	TM	t-1,4-Dichloro-2-Butene	0.1720	0.1758	2.2	TM
77	TM	Bromobenzene	2.090	2.104	0.64	TM
78	TM	n-Propylbenzene	10.8	10.6	2.1	TM
79	TM	4-Ethyltoluene	7.480	6.973	6.8	TM
80	TM	2-Chlorotoluene	7.159	7.027	1.8	TM

Average

3.7

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/31/11
Instrument: Chico
Cal. Date: 10/30/11
Data File: 1030C28W.D

		Compound	MEAN	CCRF	%D	%Drift	
81	TM	1,3,5-Trimethylbenzene	7.359	7.258	1.4	TM	
82	TM	4-Chlorotoluene	6.164	5.899	4.3	TM	
83	TM	Tert-Butylbenzene	7.967	7.897	0.88	TM	
84	TM	1,2,4-Trimethylbenzene	7.686	7.097	7.7	TM	
85	TM	Sec-Butylbenzene	9.555	9.679	1.3	TM	
86	TM	p-Isopropyltoluene	8.184	8.031	1.9	TM	
87	TM	Benzyl Chloride	1.086	0.9559	12	TM	
88	TM	1,3-DCB	4.274	4.133	3.3	TM	
89	TM	1,4-DCB	3.967	3.945	0.56	TM	
90	TML	Hexachloroethane	1.021	1.085	6.2	TML	11
91	TM	n-Butylbenzene	7.138	6.849	4.1	TM	
92	TM	1,2-DCB	3.400	3.438	1.1	TM	
93	TML	1,2-Dibromo-3-chloropropane	0.1148	0.1240	8.0	TML	2.0
94	TM	1,2,4-Trichlorobenzene	2.464	2.504	1.7	TM	
95	TM	Hexachlorobutadiene	0.4476	0.4720	5.5	TM	
96	TM	Naphthalene	3.040	3.207	5.5	TM	
97	TM	1,2,3-Trichlorobenzene	1.864	2.025	8.7	TM	
98							
99							
100							
101							
102							
103							
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113							
114							
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116							
117							
118							
119							
120							

Average

4.4

Quantitation Report (Not Reviewed)

Data File : M:\CHICO\DATA\C111030\1030C28W.D Vial: 1
 Acq On : 31 Oct 11 8:48 Operator: STC
 Sample : 111030A LCS-1WC (SS) Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Dec 2 11:35 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:32:50 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	96	600576	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.04	117	389760	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.24	152	212800	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.42	111	402364	25.15012	ppb	0.00
Spiked Amount	25.097		Recovery	=	100.210%	
38) 1,2-DCA-D4(S)	12.23	65	347346	24.38980	ppb	0.00
Spiked Amount	24.225		Recovery	=	100.680%	
56) Toluene-D8(S)	15.50	98	1474138	26.88019	ppb	0.00
Spiked Amount	25.808		Recovery	=	104.153%	
64) 4-Bromofluorobenzene(S)	20.11	95	543410	27.65447	ppb	0.00
Spiked Amount	25.459		Recovery	=	108.620%	
Target Compounds						
2) Dichlorodifluoromethane	4.07	85	222193	10.04166	ppb	100
3) Freon 114	4.33	85	146402	10.56428	ppb	93
4) Chloromethane	4.55	50	258385	9.42321	ppb	99
5) Vinyl chloride	4.82	62	186738	10.18146	ppb	96
7) Bromomethane	5.72	94	119189	8.95228	ppb	94
8) Chloroethane	5.91	64	134747	8.89428	ppb	97
9) Dichlorofluoromethane	6.01	67	386134	9.21828	ppb	97
10) Trichlorofluoromethane	6.52	101	241622	9.72027	ppb	99
11) Acetonitrile	7.64	41	78885	119.90087	ug/l	100
12) Acrolein	7.16	56	34469	114.48914	ppb	96
13) Acetone	7.27	43	22365	12.99757	ppb	# 84
14) Freon-113	7.46	101	138327	9.44782	ppb	97
15) 1,1-DCE	7.67	96	151407	8.83040	ppb	96
16) t-Butanol	7.76	59	10529	129.32077	ppb	93
17) Methyl Acetate	8.18	43	48755	9.36519	ppb	96
18) Iodomethane	8.16	142	102169	10.69989	ppb	90
19) Acrylonitrile	8.56	53	17916	9.49044	ppb	79
20) Methylene chloride	8.47	84	147951	9.04673	ppb	99
21) Carbon disulfide	8.56	76	154944	9.30051	ppb	100
22) Methyl t-butyl ether (MtBE)	8.89	73	251165	9.69151	ppb	96
23) Trans-1,2-DCE	9.10	96	180083	9.05360	ppb	88
24) Diisopropyl Ether	9.75	45	553904	9.66784	ppb	94
25) 1,1-DCA	9.79	63	339012	9.97748	ppb	99
26) Vinyl Acetate	9.42	43	104836	9.85383	ppb	# 83
27) Ethyl tert Butyl Ether	10.45	59	395408	10.10888	ppb	99
28) MEK (2-Butanone)	10.44	43	71405	10.48433	ppb	99
29) Cis-1,2-DCE	10.82	96	187663	9.18084	ppb	97
30) 2,2-Dichloropropane	10.82	77	208247	8.55600	ppb	97
31) Chloroform	11.10	83	320091	9.79258	ppb	99
32) Bromochloromethane	11.32	128	58472	10.27501	ppb	98
34) 1,1,1-TCA	11.84	97	283983	9.55329	ppb	96
35) Cyclohexane	12.00	56	268948	9.71733	ppb	94
36) 1,1-Dichloropropene	12.10	75	240188	9.42981	ppb	99
37) 2,2,4-Trimethylpentane	12.18	57	414455	9.47423	ppb	98
39) Carbon Tetrachloride	12.30	117	199898	9.76577	ppb	98
40) Tert Amyl Methyl Ether	12.34	73	292021	9.98459	ppb	99
41) 1,2-DCA	12.38	62	161160	9.60516	ppb	100
42) Benzene	12.50	78	693647	9.47863	ppb	96
43) TCE	13.53	95	195399	9.64105	ppb	91

*Algorithm Check: (222193)(25) / (600576)(0.92077) = 10.04166347 ✓
 MS 12/7/11*

Data File : M:\CHICO\DATA\C111030\1030C28W.D
 Acq On : 31 Oct 11 8:48
 Sample : 111030A LCS-1WC (SS)
 Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:35 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:32:50 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 2-Pentanone	13.20	43	531259	125.31057	ppb	97
45) 1,2-Dichloropropane	13.76	63	167281	10.05687	ppb #	94
46) Bromodichloromethane	14.11	83	190021	9.99949	ppb #	91
47) Methyl Cyclohexane	13.82	83	224538	9.48040	ppb	99
48) Dibromomethane	14.16	93	67527	10.15102	ppb	95
49) 2-Chloroethyl vinyl ether	14.57	63	42382	10.02259	ppb	95
50) 1-Bromo-2-chloroethane	14.88	63	147231	10.37368	ppb #	79
51) Cis-1,3-Dichloropropene	15.00	75	181879	10.03716	ppb	100
52) Toluene	15.63	91	678338	9.39804	ppb	99
53) Trans-1,3-Dichloropropene	15.80	75	126600	9.70449	ppb	98
54) 1,1,2-TCA	16.08	83	69681	9.91034	ppb	93
57) 1,2-EDB	17.33	107	79107	10.66417	ppb	94
58) Tetrachloroethene	16.78	164	202010	10.08114	ppb	94
59) 1-Chlorohexane	17.70	91	232734	10.08580	ppb	97
60) 1,1,1,2-Tetrachloroethane	18.16	131	138607	11.04877	ppb	99
61) m&p-Xylene	18.35	106	589147	19.90172	ppb	97
62) o-Xylene	19.11	106	295217	10.36928	ppb	98
63) Styrene	19.13	104	457607	10.64883	ppb	93
65) 2-Hexanone	16.11	43	38770	10.87089	ppb	95
66) 1,3-Dichloropropane	16.49	76	147530	10.08561	ppb	98
67) Dibromochloromethane	16.97	129	105397	11.03714	ppb	82
68) Chlorobenzene	18.10	112	437982	10.34243	ppb	97
69) Ethylbenzene	18.22	91	794180	10.07104	ppb	100
70) Bromoform	19.65	173	45131	9.31734	ppb	91
72) MIBK (methyl isobutyl keto	14.68	43	59150	9.77763	ppb	87
73) Isopropylbenzene	19.73	105	756513	9.80877	ppb	98
74) 1,1,2,2-Tetrachloroethane	19.90	83	66287	10.26718	ppb #	74
75) 1,2,3-Trichloropropane	20.16	110	8565	11.81260	ppb	82
76) t-1,4-Dichloro-2-Butene	20.23	53	14963	10.22116	ppb #	92
77) Bromobenzene	20.48	156	179052	10.06445	ppb	89
78) n-Propylbenzene	20.44	91	900774	9.79012	ppb	100
79) 4-Ethyltoluene	20.63	105	593563	9.32229	ppb	97
80) 2-Chlorotoluene	20.74	91	598129	9.81561	ppb	98
81) 1,3,5-Trimethylbenzene	20.72	105	617840	9.86323	ppb	99
82) 4-Chlorotoluene	20.82	91	502123	9.56935	ppb	98
83) Tert-Butylbenzene	21.36	119	672218	9.91209	ppb	97
84) 1,2,4-Trimethylbenzene	21.42	105	604092	9.23368	ppb	96
85) Sec-Butylbenzene	21.76	105	823845	10.12964	ppb	96
86) p-Isopropyltoluene	21.99	119	683604	9.81315	ppb	98
87) Benzyl Chloride	22.42	91	81362	8.79846	ppb	94
88) 1,3-DCB	22.12	146	351790	9.66926	ppb	95
89) 1,4-DCB	22.30	146	335795	9.94420	ppb	96
90) Hexachloroethane	23.59	117	92345	8.87470	ppb	87
91) n-Butylbenzene	22.69	91	582962	9.59448	ppb	98
92) 1,2-DCB	22.93	146	292666	10.11316	ppb	97
93) 1,2-Dibromo-3-chloropropan	24.14	155	10559	10.20135	ppb	92
94) 1,2,4-Trichlorobenzene	25.59	180	213173	10.16551	ppb	98
95) Hexachlorobutadiene	25.84	223	40176	10.54513	ppb	97
96) Naphthalene	25.94	128	272964	10.54986	ppb	99
97) 1,2,3-Trichlorobenzene	26.29	180	172357	10.86589	ppb	99

(#) = qualifier out of range (m) = manual integration
 1030C28W.D CALLW.M Tue Dec 06 18:23:45 2011

Quantitation Report

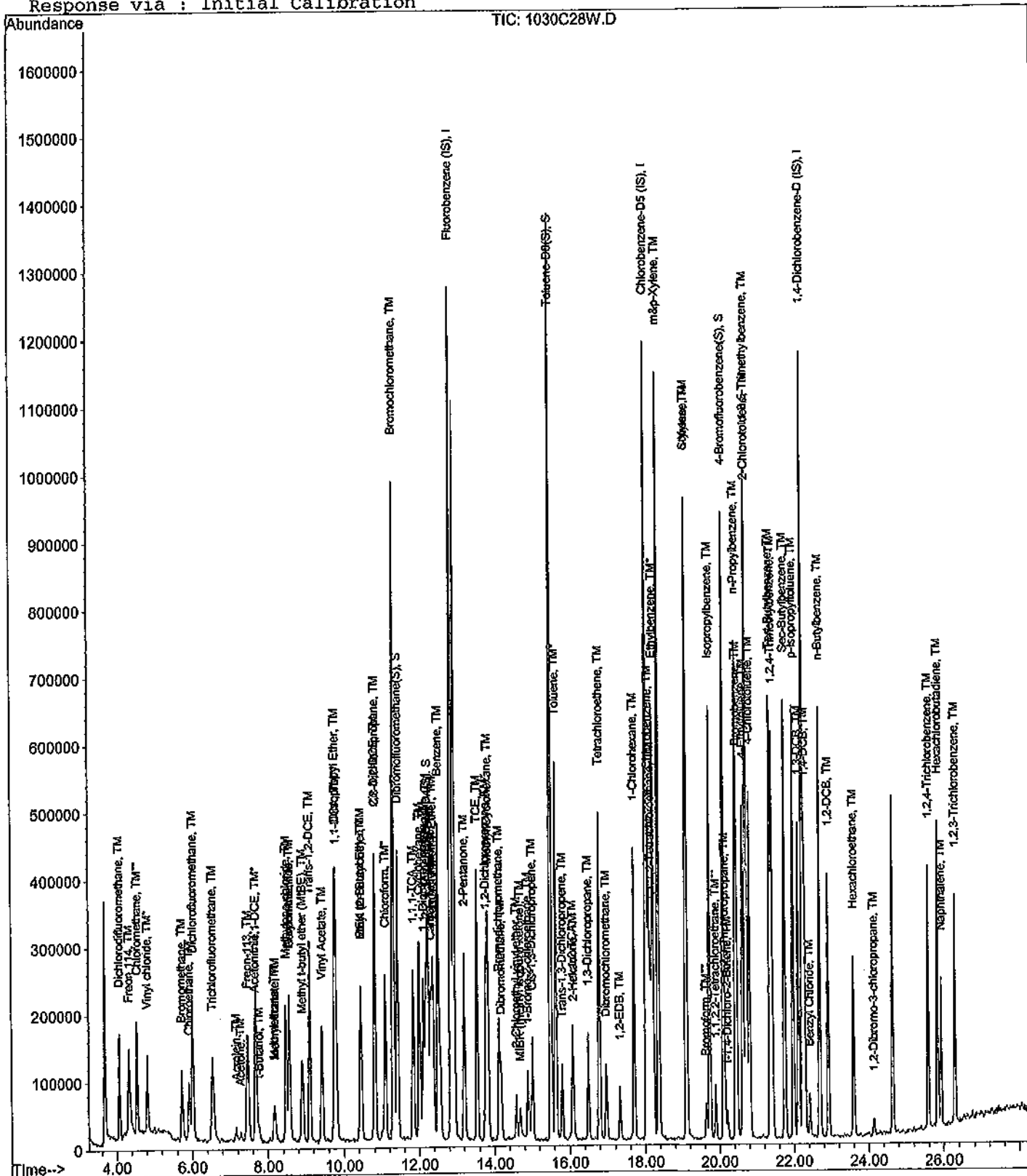
Data File : M:\CHICO\DATA\C111030\1030C28W.D
Acq On : 31 Oct 11 8:48
Sample : 111030A LCS-1WC (SS)
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Dec 2 11:35 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Dec 02 11:32:50 2011
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

Lab Name: APPL, Inc. _____
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 10/31/2011
Instrument: Chico
Initial Cal. Date: 10/30/2011
Data File: 1030C27W.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	Fluorobenzene (IS)	ISTD			I
2	TM	Dichlorodifluoromethane	0.9211	0.9607	4.3	TM
3	TM	Freon 114	0.5769	0.6267	8.6	TM
4	TM**	Chloromethane	1.141	1.117	2.2	TM**
5	TM*	Vinyl chloride	0.7635	0.8485	11	TM*
6	TML	1,3-Butadiene	0.0000	0.0009	0.00	TML
7	TM	Bromomethane	0.5542	0.5584	0.75	TM
8	TM	Chloroethane	0.6306	0.6136	2.7	TM
9	TM	Dichlorofluoromethane	1.744	1.741	0.17	TM
10	TM	Trichlorofluoromethane	1.035	1.087	5.1	TM
11		Acetonitrile	0.0274	0.0255	6.7	
12	TM	Acrolein	0.0125	0.0117	6.4	TM
13	TML	Acetone	0.1859	0.0914	51	TML 28*
14	TML	Freon-113	0.5715	0.6270	9.7	TML 3.9
15	TM*	1,1-DCE	0.7137	0.6880	3.6	TM*
16	TM	t-Butanol	0.0034	0.0034	1.1	TM
17	TML	Methyl Acetate	0.2927	0.2052	30	TML 5.2
18	TML	Iodomethane	0.3500	0.4294	23	TML 7.7
19	TML	Acrylonitrile	0.0764	0.0791	3.5	TML 0.85
20	TM	Methylene chloride	0.6808	0.6482	4.8	TM
21	TM	Carbon disulfide	0.6935	0.6961	0.37	TM
22	TM	Methyl t-butyl ether (MtBE)	1.079	1.106	2.6	TM
23	TM	Trans-1,2-DCE	0.8280	0.7771	6.1	TM
24	TM	Diisopropyl Ether	2.385	2.416	1.3	TM
25	TM**	1,1-DCA	1.414	1.481	4.7	TM**
26	TML	Vinyl Acetate	0.5623	0.4689	17	TML 7.0
27	TM	Ethyl tert Butyl Ether	1.628	1.743	7.1	TM
28	TML	MEK (2-Butanone)	0.3591	0.2865	20	TML 0.79
29	TM	Cis-1,2-DCE	0.8509	0.8285	2.6	TM
30	TM	2,2-Dichloropropane	1.013	0.9291	8.3	TM
31	TM*	Chloroform	1.361	1.374	1.0	TM*
32	TM	Bromochloromethane	0.2369	0.2573	8.6	TM
33	S	Dibromofluoromethane(S)	0.6660	0.6943	4.3	S
34	TM	1,1,1-TCA	1.237	1.277	3.2	TM
35	TM	Cyclohexane	1.152	1.162	0.83	TM
36	TM	1,1-Dichloropropene	1.060	1.091	2.9	TM
37	TML	2,2,4-Trimethylpentane	2.316	1.777	23	TML 2.1
38	S	1,2-DCA-D4(S)	0.6928	0.5850	1.3	S
39	TM	Carbon Tetrachloride	0.8521	0.9156	7.5	TM
40	TM	Tert Amyl Methyl Ether	1.217	1.268	4.1	TM

Average

7.7

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/31/2011

Matrix: 0

Instrument: Chico

Cal. Date: 10/30/2011

Data File: 1030C27W.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	1,2-DCA	0.6984	0.7162	2.5	TM
42	TM	Benzene	3.046	3.004	1.4	TM
43	TM	TCE	0.8437	0.8976	6.4	TM
44	TM	2-Pentanone	0.1765	0.1801	2.0	TM
45	TM*	1,2-Dichloropropane	0.6924	0.7108	2.7	TM*
46	TM	Bromodichloromethane	0.7910	0.8325	5.2	TM
47	TM	Methyl Cyclohexane	0.9859	0.9762	0.98	TM
48	TM	Dibromomethane	0.2769	0.3053	10	TM
49	TM	2-Chloroethyl vinyl ether	0.1760	0.1791	1.8	TM
50	TM	1-Bromo-2-chloroethane	0.5908	0.6158	4.2	TM
51	TM	Cis-1,3-Dichloropropene	0.7543	0.7871	4.4	TM
52	TM*	Toluene	3.005	3.021	0.56	TM*
53	TM	Trans-1,3-Dichloropropene	0.5430	0.5626	3.6	TM
54	TM	1,1,2-TCA	0.2927	0.3204	9.5	TM
55	I	Chlorobenzene-D5 (IS)	ISTD			I
56	S	Toluene-D8(S)	3.518	3.735	6.2	S
57	TM	1,2-EDB	0.4758	0.5192	9.1	TM
58	TM	Tetrachloroethene	1.285	1.322	2.9	TM
59	TM	1-Chlorohexane	1.480	1.498	1.2	TM
60	TM	1,1,1,2-Tetrachloroethane	0.8047	0.9010	12	TM
61	TM	m&p-Xylene	1.899	1.872	1.4	TM
62	TM	o-Xylene	1.826	1.841	0.81	TM
63	TM	Styrene	2.756	2.893	5.0	TM
64	S	4-Bromofluorobenzene(S)	1.260	1.340	6.3	S
65	TM	2-Hexanone	0.2288	0.2478	8.3	TM
66	TM	1,3-Dichloropropane	0.9383	0.9771	4.1	TM
67	TM	Dibromochloromethane	0.6125	0.6543	6.8	TM
68	TM**	Chlorobenzene	2.716	2.717	0.01	TM**
69	TM*	Ethylbenzene	5.058	5.085	0.53	TM*
70	TM**L	Bromoform	0.2607	0.2986	15	TM**L 4.2
71	I	1,4-Dichlorobenzene-D (IS)	ISTD			I
72	TM	MIBK (methyl isobutyl ketone)	0.7107	0.6949	2.2	TM
73	TM	Isopropylbenzene	9.061	9.158	1.1	TM
74	TM**	1,1,2,2-Tetrachloroethane	0.7585	0.7768	2.4	TM**
75	TML	1,2,3-Trichloropropane	0.0967	0.1005	4.0	TML 18
76	TM	t-1,4-Dichloro-2-Butene	0.1720	0.1640	4.7	TM
77	TM	Bromobenzene	2.090	2.096	0.30	TM
78	TM	n-Propylbenzene	10.8	11.1	2.9	TM
79	TM	4-Ethyltoluene	7.480	7.378	1.4	TM
80	TM	2-Chlorotoluene	7.159	7.296	1.9	TM

Average

4.1

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 10/31/2011

Matrix: 0

Instrument: Chico

Cal. Date: 10/30/2011

Data File: 1030C27W.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	1,3,5-Trimethylbenzene	7.359	7.417	0.79	TM
82	TM	4-Chlorotoluene	6.164	6.076	1.4	TM
83	TM	Tert-Butylbenzene	7.967	8.229	3.3	TM
84	TM	1,2,4-Trimethylbenzene	7.686	7.406	3.6	TM
85	TM	Sec-Butylbenzene	9.555	9.767	2.2	TM
86	TM	p-Isopropyltoluene	8.184	8.300	1.4	TM
87	TM	Benzyl Chloride	1.086	0.9882	9.0	TM
88	TM	1,3-DCB	4.274	4.305	0.72	TM
89	TM	1,4-DCB	3.967	4.065	2.5	TM
90	TML	Hexachloroethane	1.021	1.118	9.5	TML 9.2
91	TM	n-Butylbenzene	7.138	6.965	2.4	TM
92	TM	1,2-DCB	3.400	3.527	3.7	TM
93	TML	1,2-Dibromo-3-chloropropane	0.1148	0.1161	1.2	TML 3.7
94	TM	1,2,4-Trichlorobenzene	2.464	2.540	3.1	TM
95	TM	Hexachlorobutadiene	0.4476	0.4532	1.2	TM
96	TM	Naphthalene	3.040	3.215	5.8	TM
97	TM	1,2,3-Trichlorobenzene	1.864	1.911	2.5	TM
98						
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120						

Average

3.2

Data File : M:\CHICO\DATA\C111030\1030C27W.D Vial: 1
 Acq On : 31 Oct 11 8:05 Operator: STC
 Sample : Voc Std 10-30-11@10ug/L Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Dec 2 11:35 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:32:50 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	12.84	96	583168	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.03	117	397504	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.24	152	209984	25.00000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
33) Dibromofluoromethane (S)	11.43	111	404916	26.06515	ppb	0.00
Spiked Amount 25.097			Recovery = 103.856%			
38) 1,2-DCA-D4 (S)	12.23	65	341171	24.67132	ppb	0.00
Spiked Amount 24.225			Recovery = 101.840%			
56) Toluene-D8 (S)	15.50	98	1484769	26.54660	ppb	0.00
Spiked Amount 25.808			Recovery = 102.862%			
64) 4-Bromofluorobenzene (S)	20.11	95	532764	26.58449	ppb	0.00
Spiked Amount 25.459			Recovery = 104.417%			

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	4.06	85	224089	10.42966	ppb	97
3) Freon 114	4.33	85	146183	10.86336	ppb	98
4) Chloromethane	4.55	50	260469	9.78278	ppb	98
5) Vinyl chloride	4.82	62	197919	11.11320	ppb	95
7) Bromomethane	5.72	94	130249	10.07502	ppb	89
8) Chloroethane	5.91	64	143140	9.73031	ppb	99
9) Dichlorofluoromethane	6.00	67	406047	9.98304	ppb	100
10) Trichlorofluoromethane	6.52	101	253658	10.50908	ppb	97
11) Acetonitrile	7.65	41	74497	116.61139	ug/l	100
12) Acrolein	7.15	56	34193	116.96262	ppb	94
13) Acetone	7.29	43	21316	12.75773	ppb	77
14) Freon-113	7.46	101	146261	10.39098	ppb	94
15) 1,1-DCE	7.68	96	160490	9.63955	ppb	97
16) t-Butanol	7.76	59	9773	123.61847	ppb	100
17) Methyl Acetate	8.19	43	47860	9.47524	ppb	98
18) Iodomethane	8.17	142	100159	10.76585	ppb	# 89
19) Acrylonitrile	8.55	53	18444	10.08467	ppb	84
20) Methylene chloride	8.48	84	151205	9.52169	ppb	86
21) Carbon disulfide	8.55	76	162368	10.03707	ppb	98
22) Methyl t-butyl ether (MtBE)	8.90	73	258098	10.25631	ppb	95
23) Trans-1,2-DCE	9.09	96	181275	9.38557	ppb	90
24) Diisopropyl Ether	9.75	45	563558	10.12996	ppb	96
25) 1,1-DCA	9.79	63	345459	10.47072	ppb	97
26) Vinyl Acetate	9.42	43	109376	10.70268	ppb	# 83
27) Ethyl tert Butyl Ether	10.45	59	406696	10.70784	ppb	94
28) MEK (2-Butanone)	10.43	43	66821	10.07941	ppb	96
29) Cis-1,2-DCE	10.81	96	193255	9.73664	ppb	97
30) 2,2-Dichloropropane	10.81	77	216729	9.17030	ppb	95
31) Chloroform	11.09	83	320623	10.10165	ppb	99
32) Bromochloromethane	11.31	128	60012	10.86042	ppb	81
34) 1,1,1-TCA	11.83	97	297856	10.31908	ppb	97
35) Cyclohexane	12.01	56	270975	10.08282	ppb	92
36) 1,1-Dichloropropene	12.10	75	254512	10.29044	ppb	100
37) 2,2,4-Trimethylpentane	12.18	57	414560	9.79424	ppb	98
39) Carbon Tetrachloride	12.30	117	213577	10.74550	ppb	94
40) Tert Amyl Methyl Ether	12.34	73	295693	10.41194	ppb	98

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

1030C27W.D CALLW.M Fri Dec 02 11:35:08 2011

Data File : M:\CHICO\DATA\C111030\1030C27W.D Vial: 1
 Acq On : 31 Oct 11 8:05 Operator: STC
 Sample : Voc Std 10-30-11@10ug/L Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Dec 2 11:35 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:32:50 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
41) 1,2-DCA	12.37	62	167070	10.25463	ppb	96
42) Benzene	12.50	78	700767	9.86177	ppb	97
43) TCE	13.53	95	209384	10.63947	ppb	91
44) 2-Pentanone	13.20	43	525053	127.54364	ppb	98
45) 1,2-Dichloropropane	13.76	63	165813	10.26618	ppb	# 93
46) Bromodichloromethane	14.12	83	194189	10.52386	ppb	# 92
47) Methyl Cyclohexane	13.82	83	227722	9.90185	ppb	99
48) Dibromomethane	14.17	93	71228	11.02699	ppb	99
49) 2-Chloroethyl vinyl ether	14.57	63	41783	10.17589	ppb	97
50) 1-Bromo-2-chloroethane	14.88	63	143648	10.42335	ppb	87
51) Cis-1,3-Dichloropropene	15.01	75	183608	10.43504	ppb	97
52) Toluene	15.63	91	704784	10.05591	ppb	96
53) Trans-1,3-Dichloropropene	15.80	75	131238	10.36031	ppb	91
54) 1,1,2-TCA	16.09	83	74743	10.94760	ppb	93
57) 1,2-EDB	17.33	107	82556	10.91231	ppb	91
58) Tetrachloroethene	16.79	164	210273	10.28907	ppb	91
59) 1-Chlorohexane	17.70	91	238146	10.11928	ppb	96
60) 1,1,1,2-Tetrachloroethane	18.16	131	143265	11.19759	ppb	93
61) m&p-Xylene	18.35	106	595342	19.71920	ppb	97
62) o-Xylene	19.11	106	292710	10.08093	ppb	98
63) Styrene	19.12	104	460015	10.49632	ppb	97
65) 2-Hexanone	16.10	43	39396	10.83121	ppb	# 75
66) 1,3-Dichloropropane	16.49	76	155367	10.41445	ppb	95
67) Dibromochloromethane	16.97	129	104038	10.68258	ppb	89
68) Chlorobenzene	18.10	112	431948	10.00123	ppb	95
69) Ethylbenzene	18.22	91	808497	10.05286	ppb	95
70) Bromoform	19.64	173	47481	9.57573	ppb	# 74
72) MIBK (methyl isobutyl keto)	14.68	43	58368	9.77776	ppb	91
73) Isopropylbenzene	19.74	105	769191	10.10690	ppb	99
74) 1,1,2,2-Tetrachloroethane	19.90	83	65243	10.24099	ppb	86
75) 1,2,3-Trichloropropane	20.15	110	8442	11.79921	ppb	79
76) t-1,4-Dichloro-2-Butene	20.23	53	13773	9.53445	ppb	# 90
77) Bromobenzene	20.48	156	176075	10.02984	ppb	93
78) n-Propylbenzene	20.44	91	934437	10.29219	ppb	100
79) 4-Ethyltoluene	20.64	105	619715	9.86355	ppb	96
80) 2-Chlorotoluene	20.73	91	612789	10.19105	ppb	97
81) 1,3,5-Trimethylbenzene	20.71	105	623010	10.07914	ppb	97
82) 4-Chlorotoluene	20.82	91	510371	9.85698	ppb	98
83) Tert-Butylbenzene	21.36	119	691172	10.32825	ppb	98
84) 1,2,4-Trimethylbenzene	21.42	105	622056	9.63577	ppb	97
85) Sec-Butylbenzene	21.76	105	820355	10.22199	ppb	99
86) p-Isopropyltoluene	21.99	119	697110	10.14123	ppb	99
87) Benzyl Chloride	22.42	91	83004	9.09640	ppb	99
88) 1,3-DCB	22.13	146	361602	10.07224	ppb	95
89) 1,4-DCB	22.30	146	341438	10.24691	ppb	96
90) Hexachloroethane	23.60	117	93885	9.08419	ppb	96
91) n-Butylbenzene	22.70	91	585015	9.75739	ppb	98
92) 1,2-DCB	22.93	146	296267	10.37488	ppb	95
93) 1,2-Dibromo-3-chloropropan	24.14	155	9755	9.63316	ppb	88
94) 1,2,4-Trichlorobenzene	25.59	180	213308	10.30836	ppb	97
95) Hexachlorobutadiene	25.84	223	38064	10.12477	ppb	98

(#) = qualifier out of range (m) = manual integration
 1030C27W.D CALLW.M Fri Dec 02 11:35:09 2011

Data File : M:\CHICO\DATA\C111030\1030C27W.D Vial: 1
 Acq On : 31 Oct 11 8:05 Operator: STC
 Sample : Voc Std 10-30-11@10ug/L Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Dec 2 11:35 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:32:50 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) Naphthalene	25.94	128	270062	10.57768	ppb	99
97) 1,2,3-Trichlorobenzene	26.29	180	160478	10.25268	ppb	93

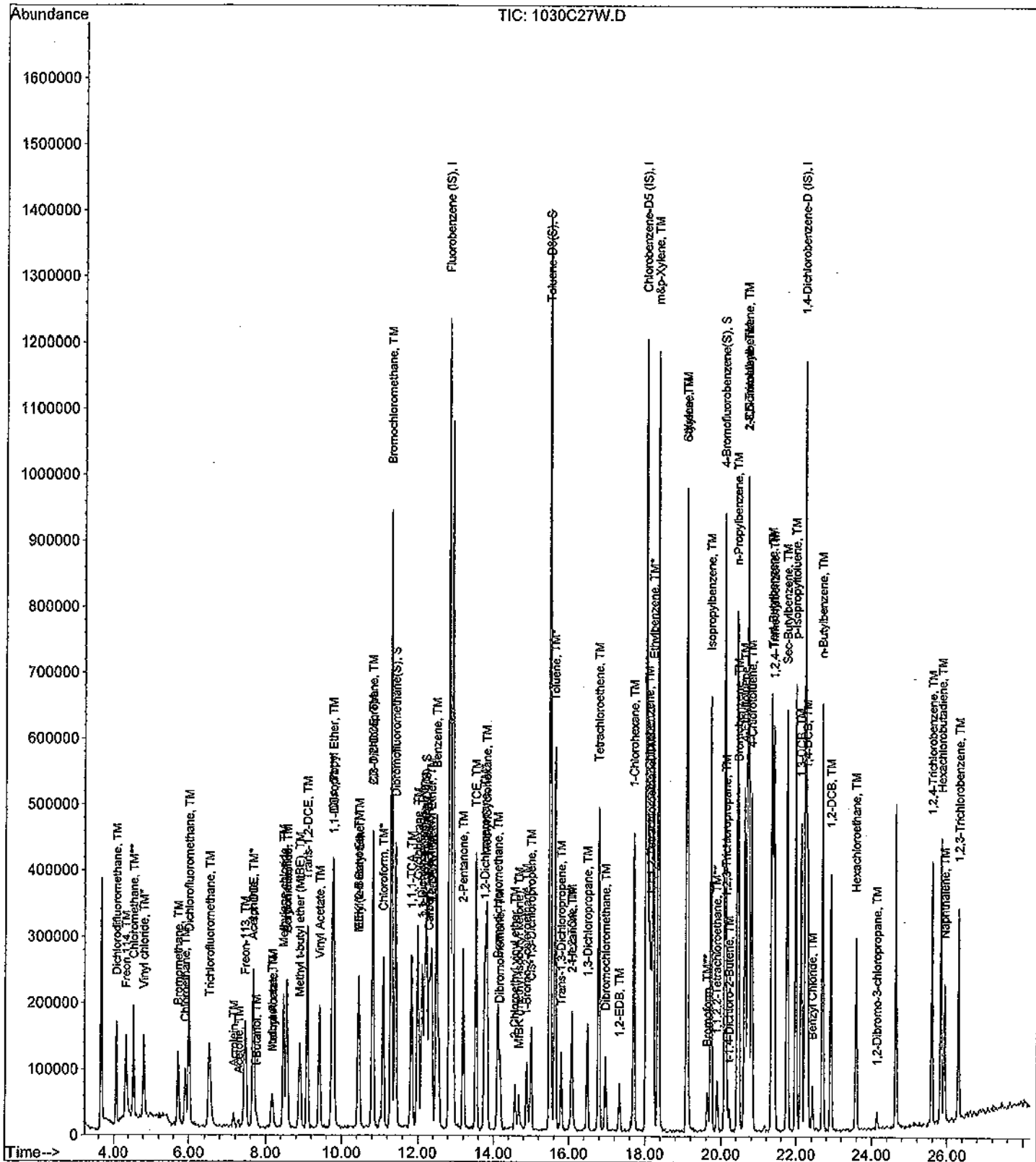
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Acq On : 31 Oct 11 8:05
Sample : Voc Std 10-30-11@10ug/L
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Dec 2 11:35 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Dec 02 11:32:50 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C05W.D Vial: 1
 Acq On : 30 Oct 11 16:17 Operator: STC
 Sample : Vol Std 10-30-11@20ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 10:29 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:32:18 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.86	TIC	1064868	25.00000	ppb	0.02
3) Chlorobenzene-D5 (IS)	18.05	TIC	1075283	25.00000	ppb	0.01
4) 1,4-Dichlorobenzene-D (IS)	22.26	TIC	1031464	25.00000	ppb	0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	18.05	TIC	15186538m	62.79631	ppb	100

Quantitation Report

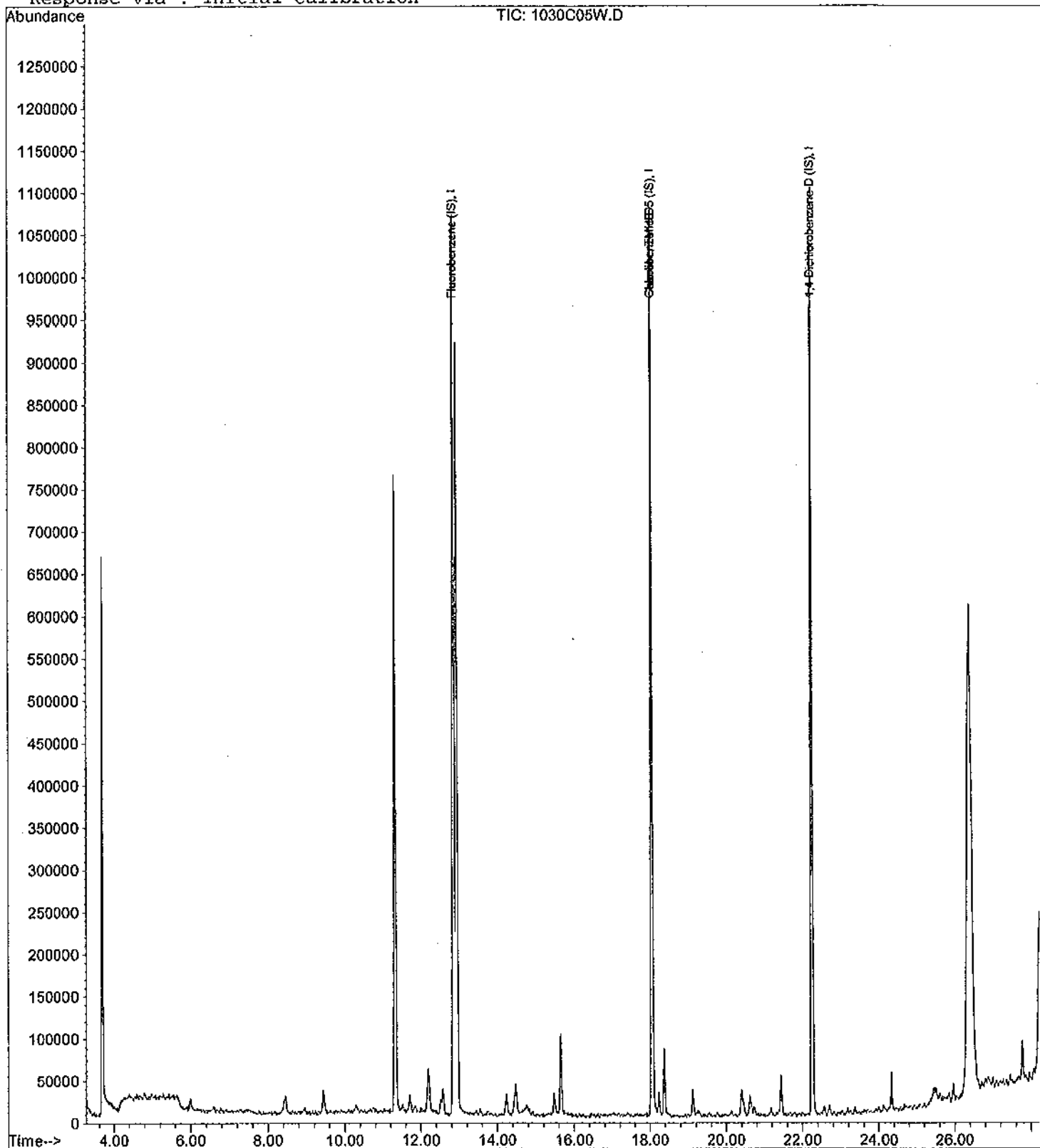
Data File : M:\CHICO\DATA\C111030\1030C05W.D
Acq On : 30 Oct 11 16:17
Sample : Vol Std 10-30-11@20ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 10:29 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration

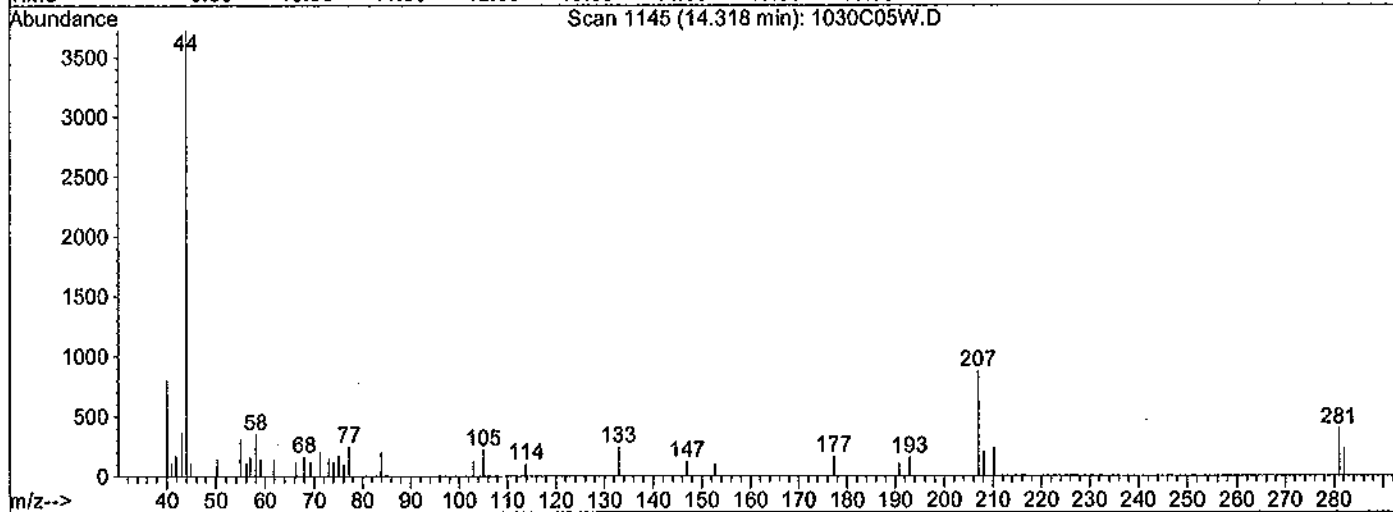
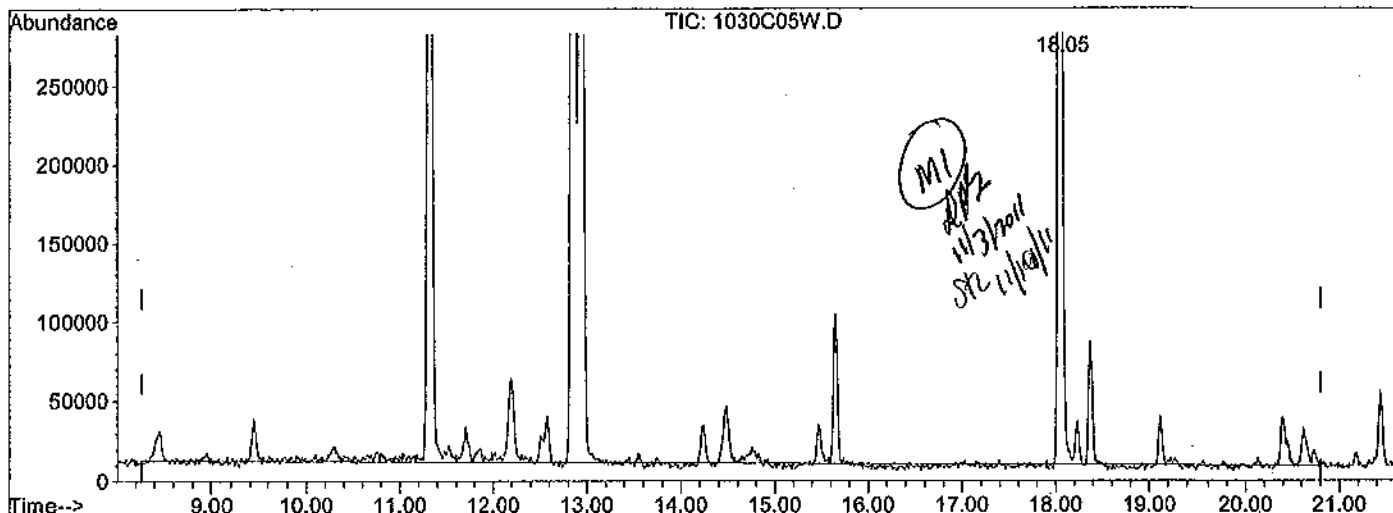


Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C05W.D
 Acq On : 30 Oct 11 16:17
 Sample : Vol Std 10-30-11@20ug/L
 Misc : Water 10mLw/ IS:10-30-11
 Quant Time: Oct 31 9:32 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration



TIC: 1030C05W.D

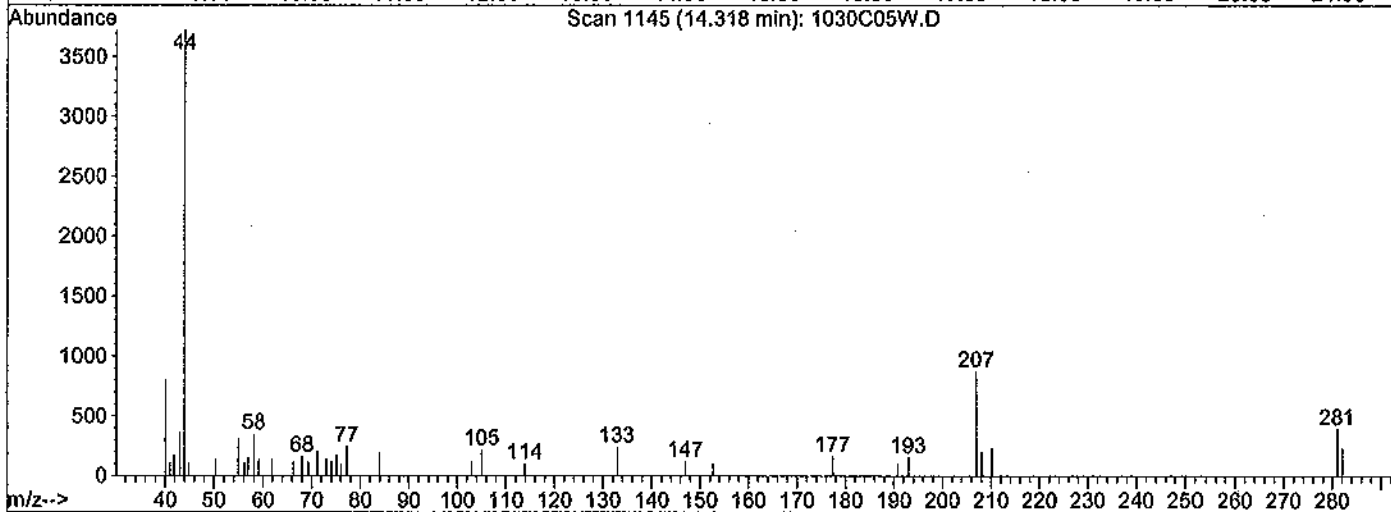
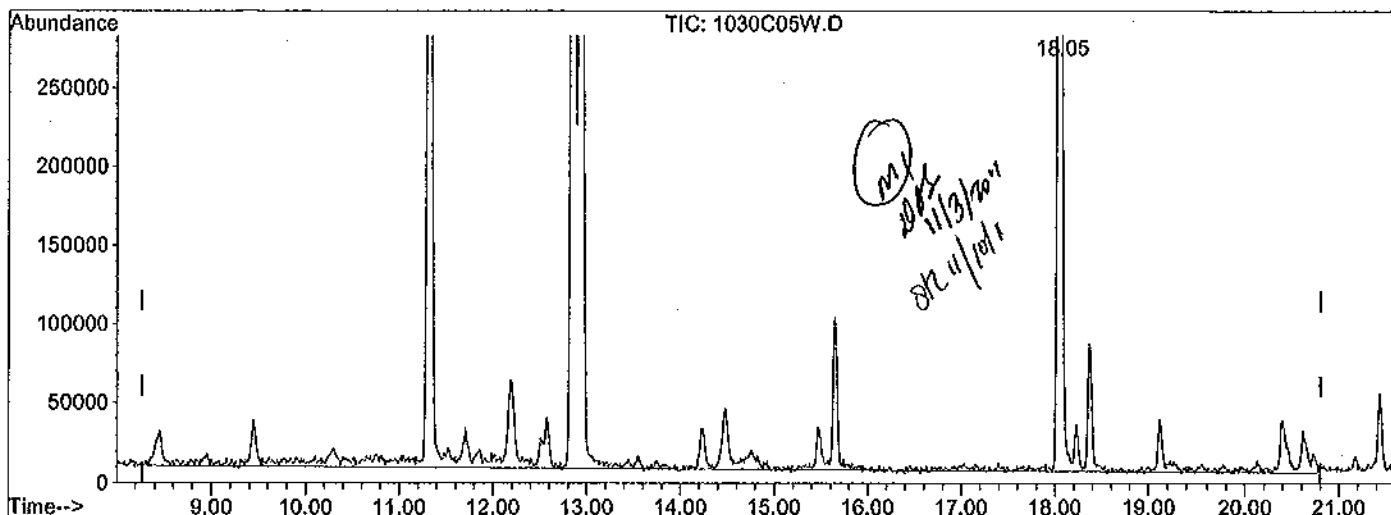
(2) Gasoline (TMHB)		
14.31min	48.1330ppb m	
response	11640400	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.82#
0.00	0.00	2.44#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C05W.D
 Acq On : 30 Oct 11 16:17
 Sample : Vol Std 10-30-11@20ug/L
 Misc : Water 10mLw/ IS:10-30-11
 Quant Time: Nov 3 10:29 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration



TIC: 1030C05W.D

(2) Gasoline (TMHB)		
18.05min	62.7963ppb	m
response	15186538	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.63#
0.00	0.00	1.87#
0.00	0.00	0.00

Data File : M:\CHICO\DATA\C111030\1030C06W.D Vial: 1
 Acq On : 30 Oct 11 17:00 Operator: STC
 Sample : Vol Std 10-30-11@50ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 10:30 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:32:18 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1074535	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.04	TIC	1105653	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.24	TIC	1049854	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	18.04	TIC	17501250m	71.71659	ppb	100

Quantitation Report

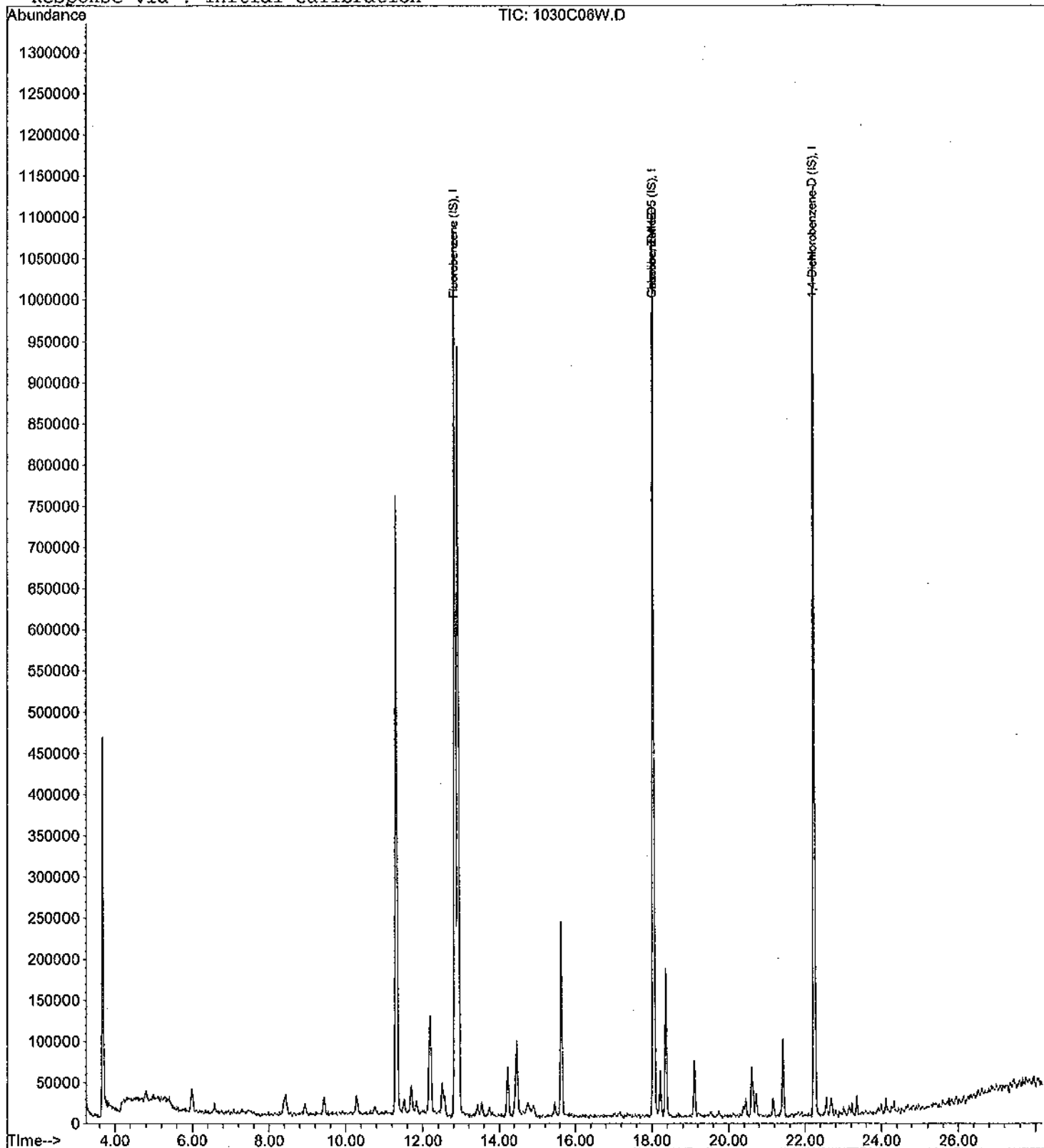
Data File : M:\CHICO\DATA\C111030\1030C06W.D
Acq On : 30 Oct 11 17:00
Sample : Vol Std 10-30-11@50ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 10:30 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration

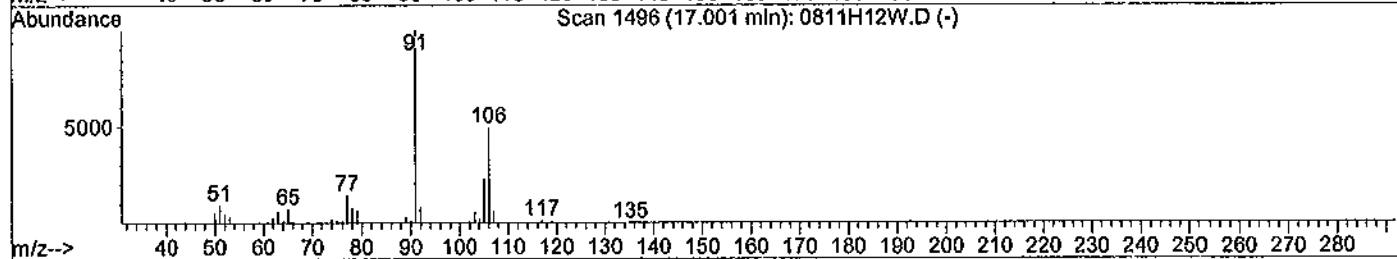
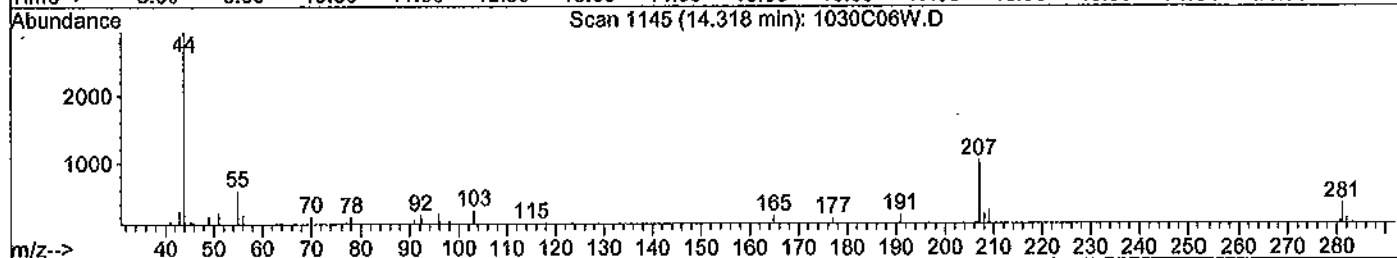
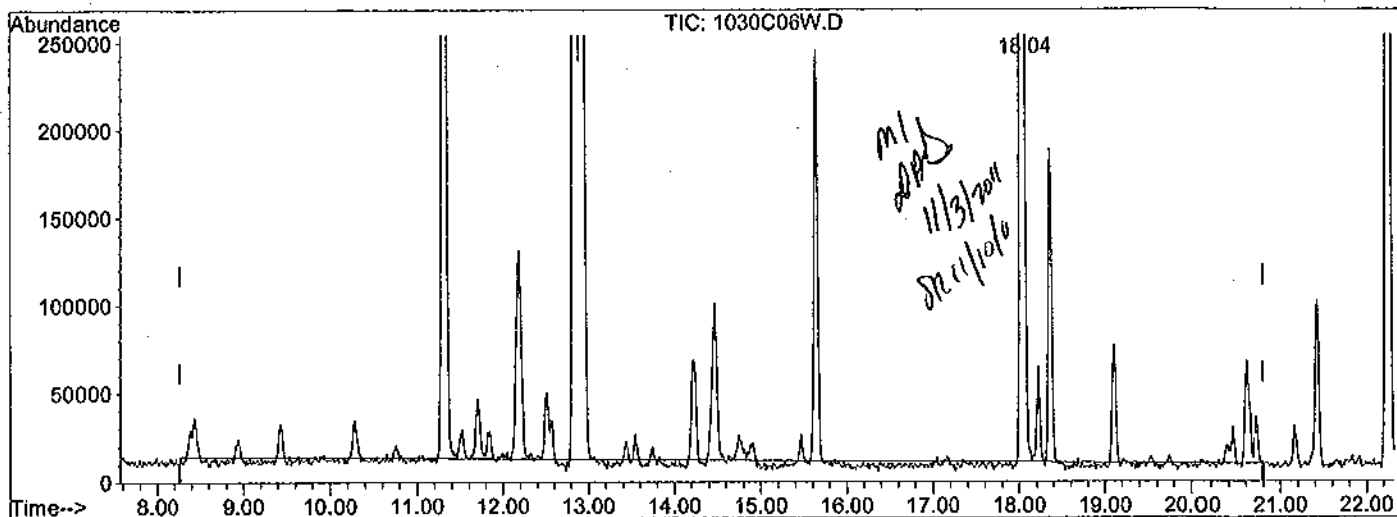


Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C06W.D
 Acq On : 30 Oct 11 17:00
 Sample : Vol Std 10-30-11@50ug/L
 Misc : Water 10mLw/ IS:10-30-11
 Quant Time: Oct 31 9:32 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration



TIC: 1030C06W.D

(2) Gasoline (TMHB)

14.31min 58.1426ppb m

response 14188741

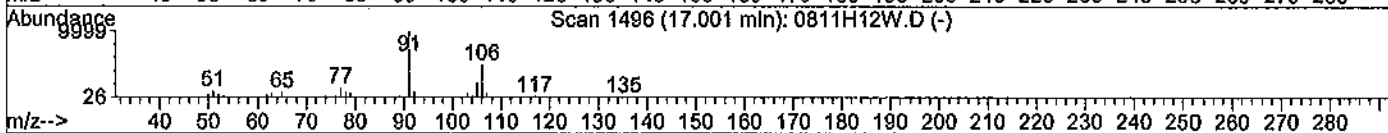
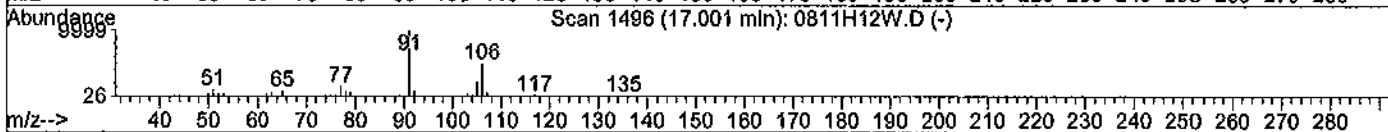
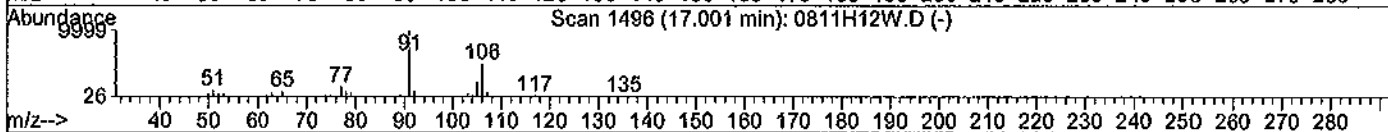
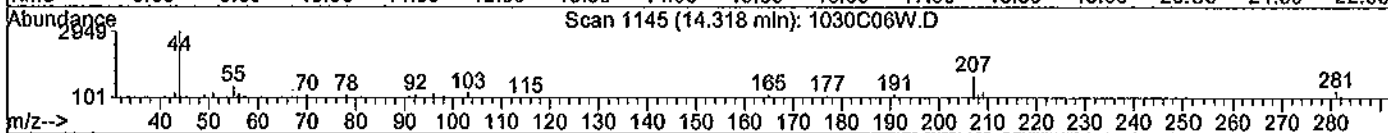
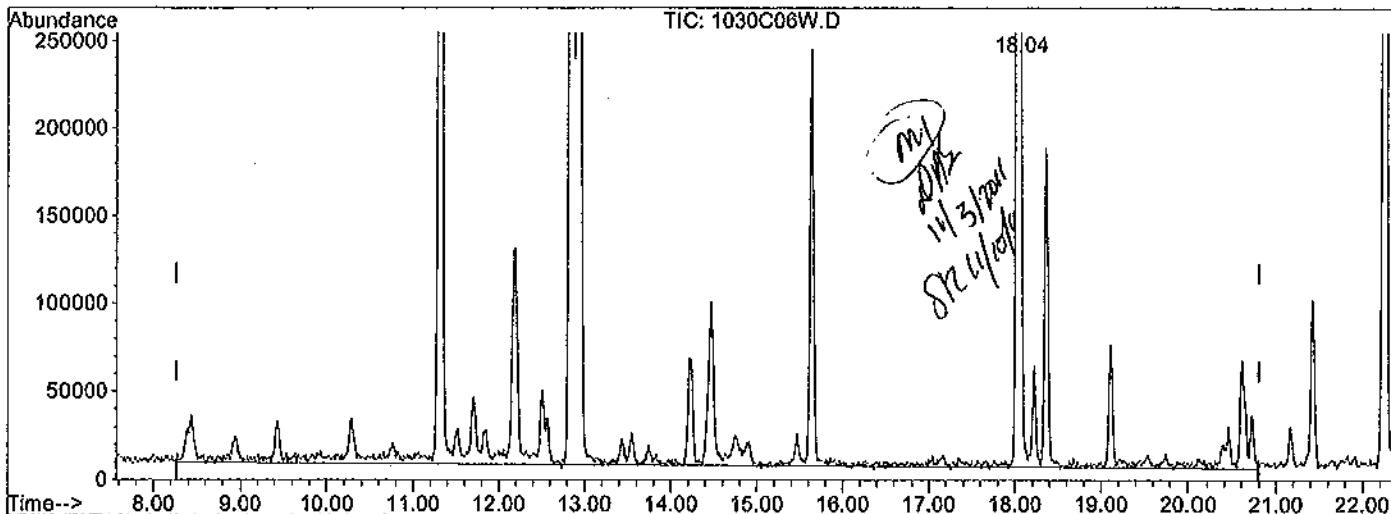
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.68#
0.00	0.00	2.00#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C06W.D
 Acq On : 30 Oct 11 17:00
 Sample : Vol Std 10-30-11@50ug/L
 Misc : Water 10mLw/ IS:10-30-11
 Quant Time: Nov 3 10:30 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration



TIC: 1030C06W.D

(2) Gasoline (TMHB)		
18.04min	71.7166ppb m	
response	17501250	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.55#
0.00	0.00	1.62#
0.00	0.00	0.00

Data File : M:\CHICO\DATA\C111030\1030C07W.D Vial: 1
 Acq On : 30 Oct 11 17:43 Operator: STC
 Sample : Vol Std 10-30-11@100ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 10:38 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:32:18 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1049972	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.04	TIC	1057194	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.24	TIC	1054110	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	18.04	TIC	21647604m	90.78273	ppb	100

Quantitation Report

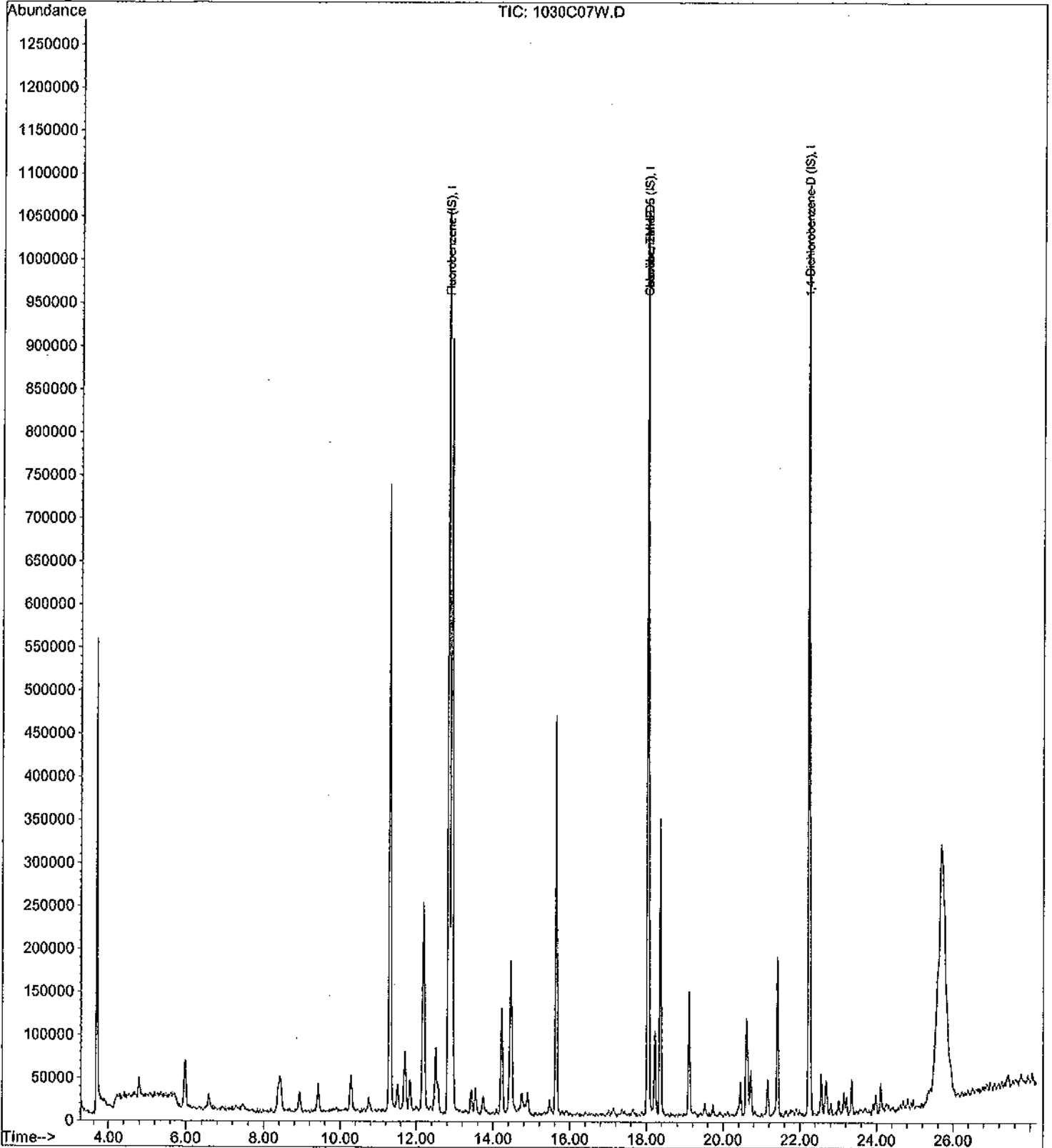
Data File : M:\CHICO\DATA\C111030\1030C07W.D
Acq On : 30 Oct 11 17:43
Sample : Vol Std 10-30-11@100ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 10:38 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration

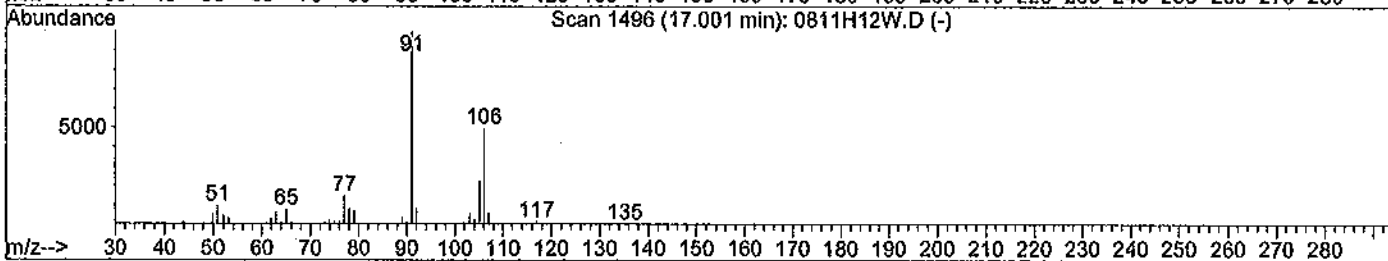
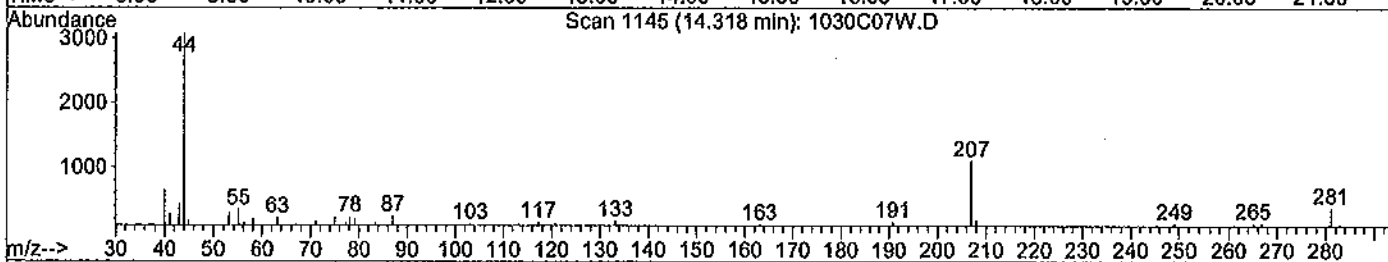
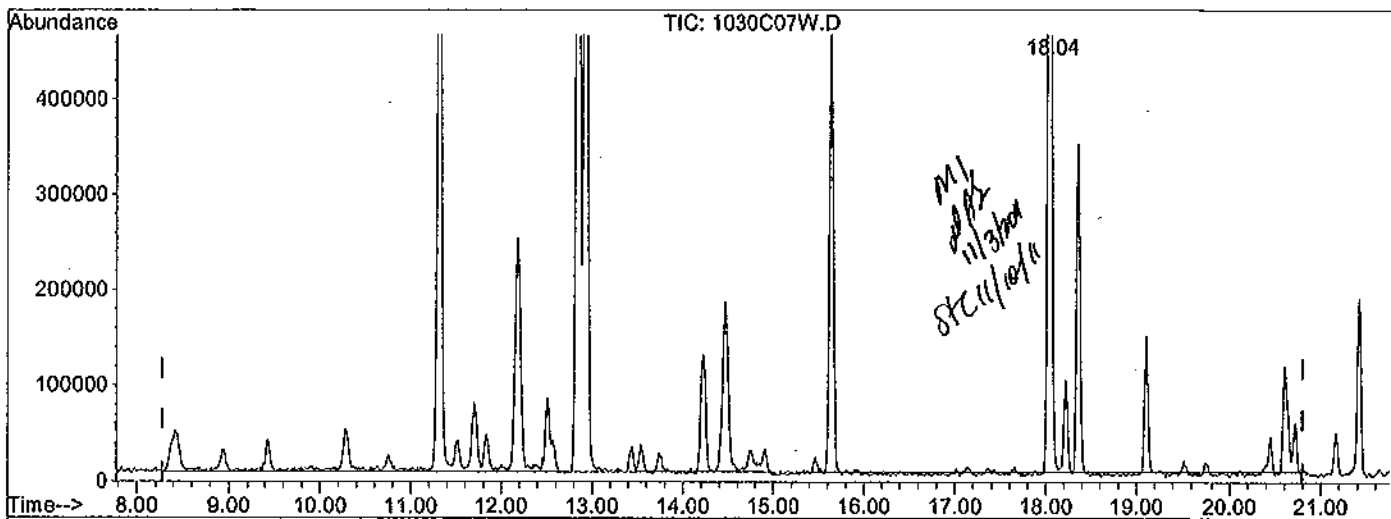


Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C07W.D
 Acq On : 30 Oct 11 17:43
 Sample : Vol Std 10-30-11@100ug/L
 Misc : Water 10mLw/ IS:10-30-11
 Quant Time: Oct 31 9:32 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration



TIC: 1030C07W.D

(2) Gasoline (TMHB)

14.31min 75.4746ppb m

response 17997299

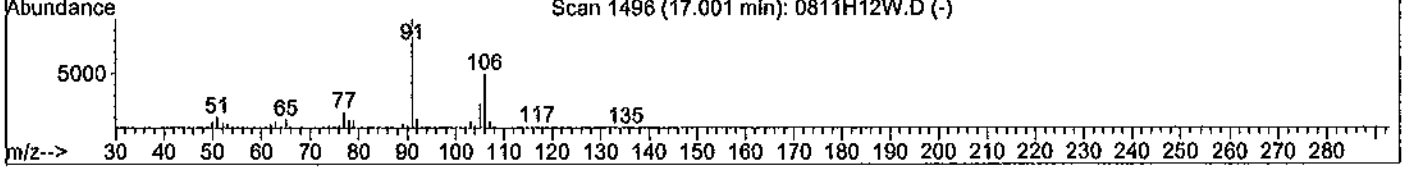
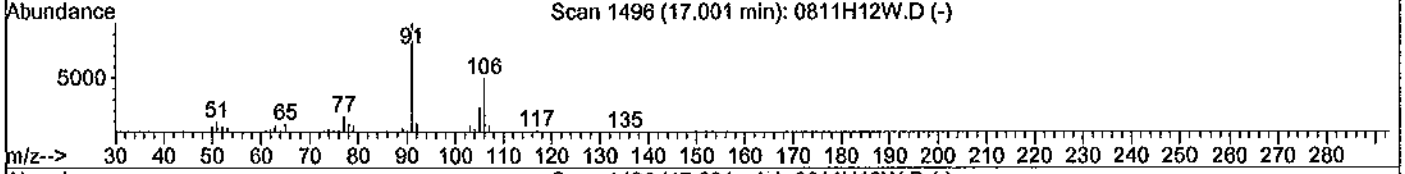
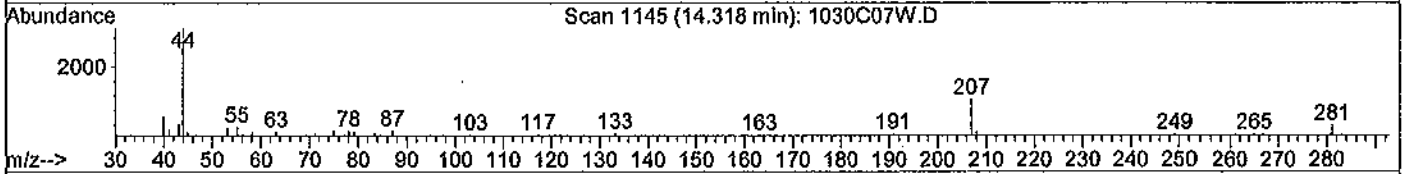
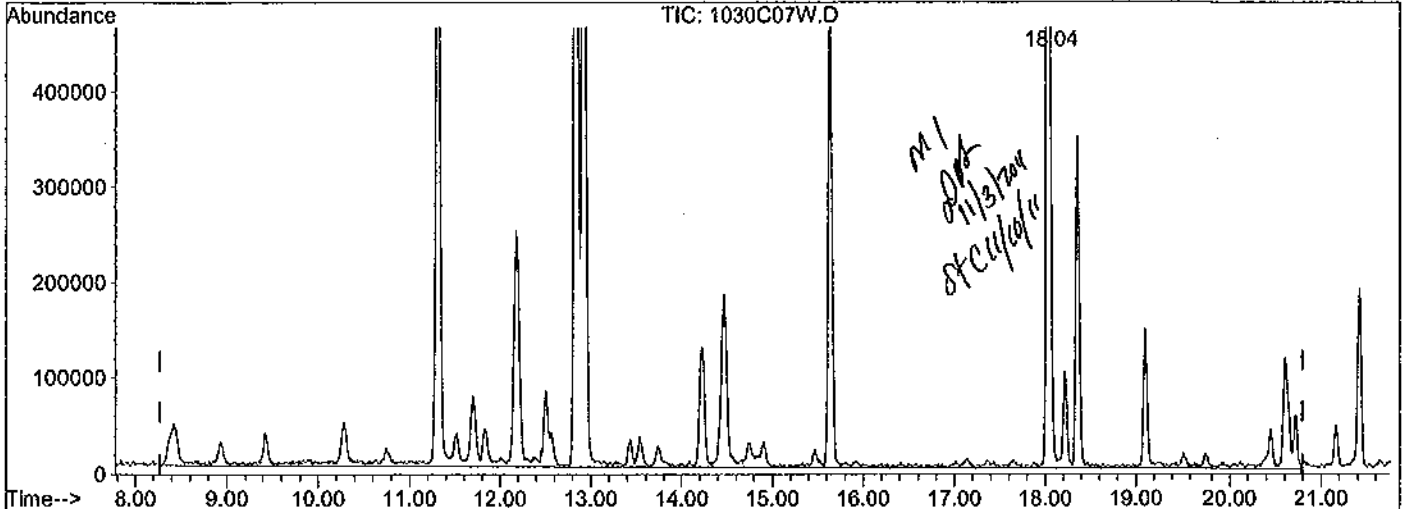
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.55#
0.00	0.00	1.56#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C07W.D
 Acq On : 30 Oct 11 17:43
 Sample : Vol Std 10-30-11@100ug/L
 Misc : Water 10mLw/ IS:10-30-11
 Quant Time: Nov 3 10:38 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration



TIC: 1030C07W.D

(2) Gasoline (TMHB)		
18.04min	90.7827ppb m	
response	21647604	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.45#
0.00	0.00	1.30#
0.00	0.00	0.00

Data File : M:\CHICO\DATA\C111030\1030C08W.D Vial: 1
 Acq On : 30 Oct 11 18:26 Operator: STC
 Sample : Vol Std 10-30-11@300ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 10:40 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:32:18 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	TIC	1085666	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.04	TIC	1080398	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.24	TIC	1118273	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	15.64	TIC	39740510m	161.17894	ppb	100

Quantitation Report

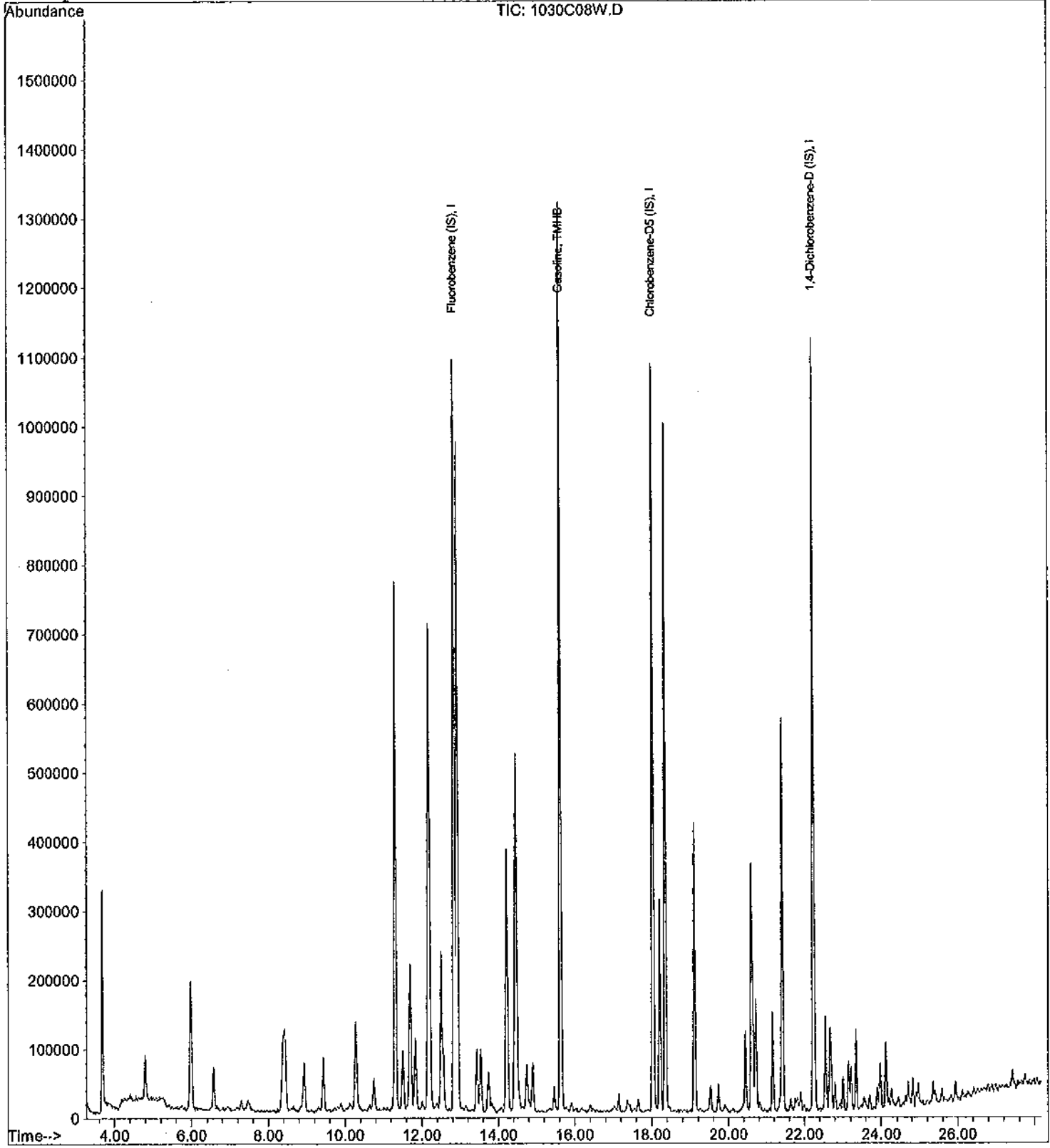
Data File : M:\CHICO\DATA\C111030\1030C08W.D
Acq On : 30 Oct 11 18:26
Sample : Vol Std 10-30-11@300ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 10:40 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



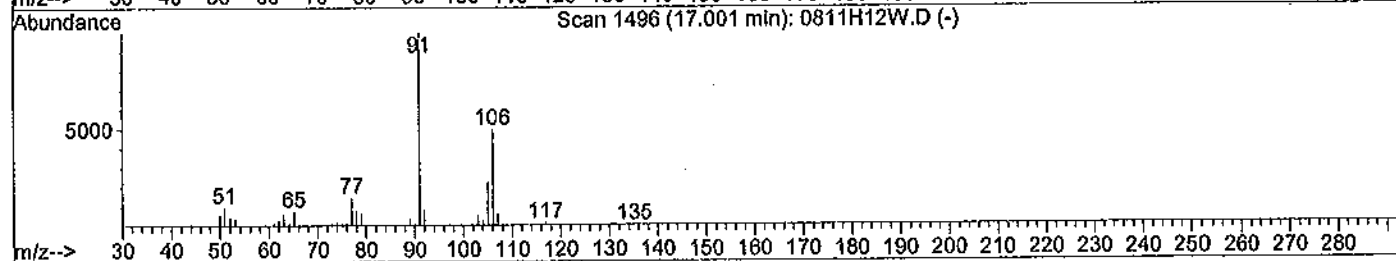
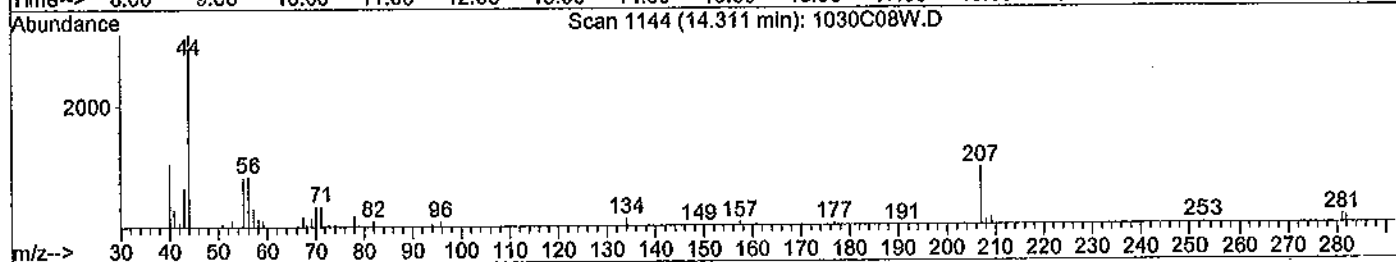
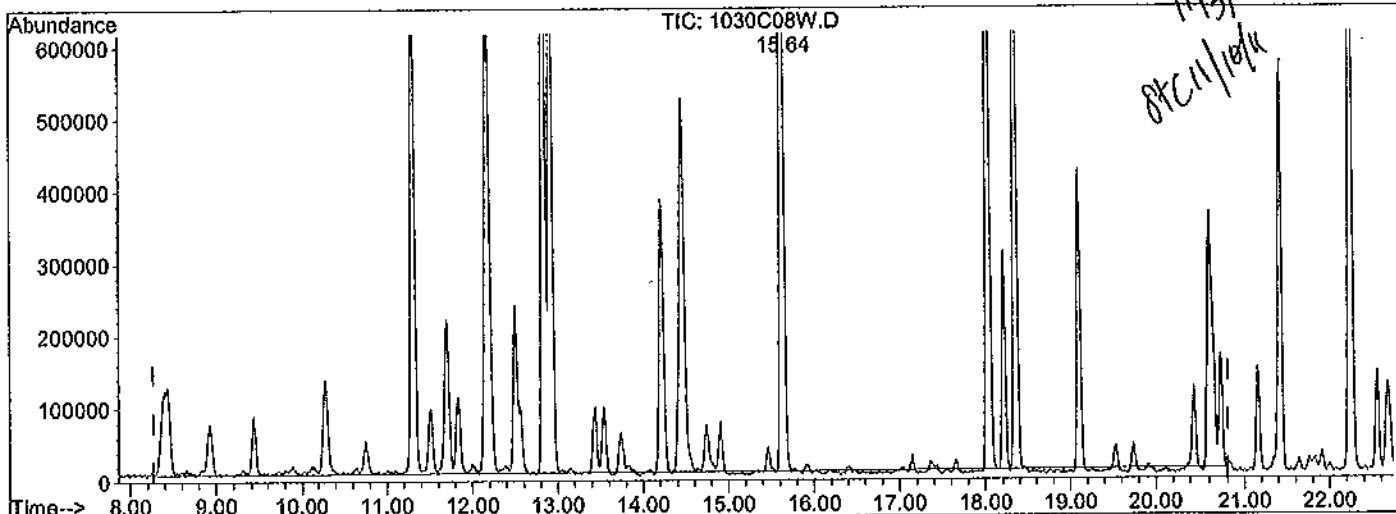
Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C08W.D
 Acq On : 30 Oct 11 18:26
 Sample : Vol Std 10-30-11@300ug/L
 Misc : Water 10mLw/ IS:10-30-11
 Quant Time: Oct 31 9:32 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration

M1
11/3/2011
STC 11/10/11



TIC: 1030C08W.D

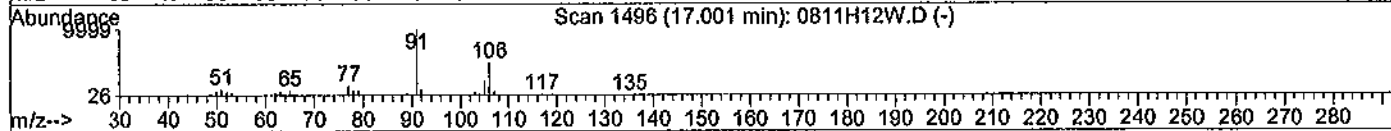
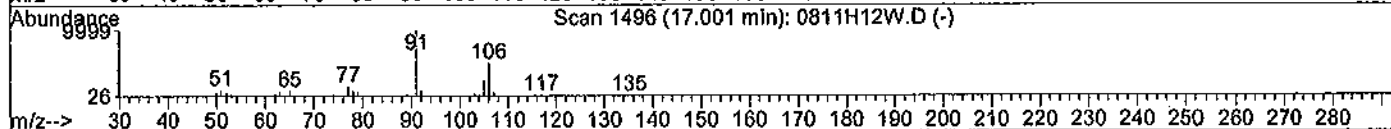
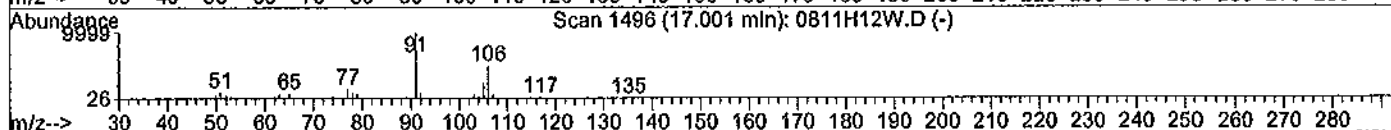
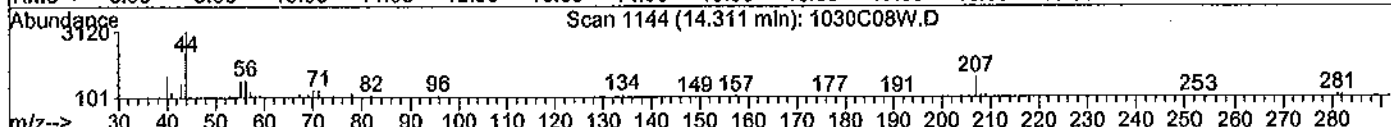
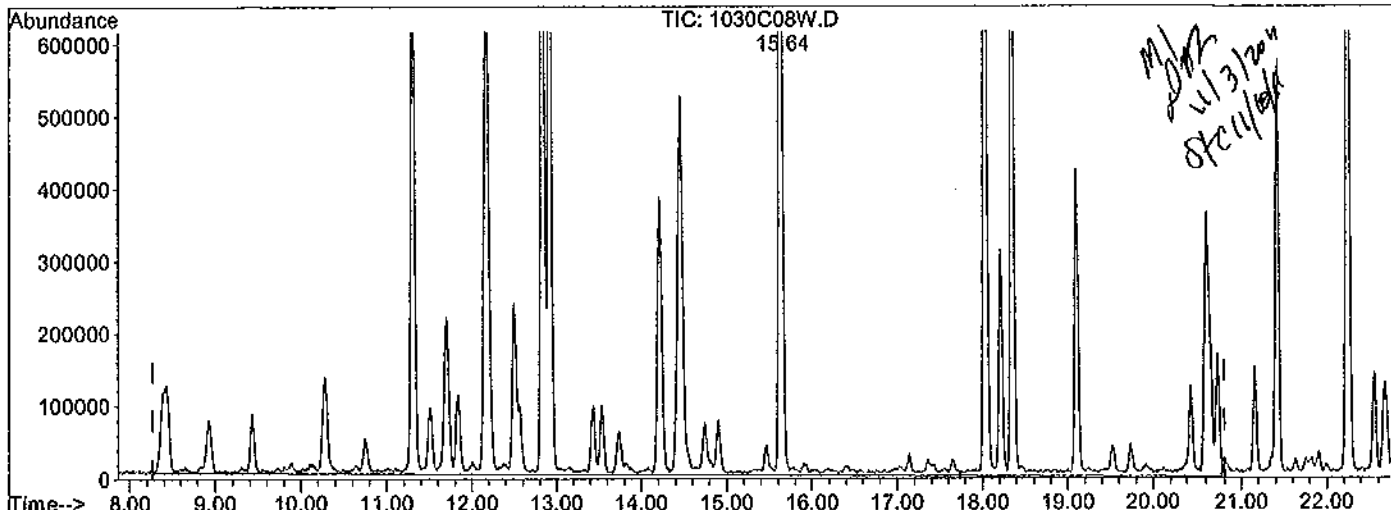
(2) Gasoline (TMHB)		
14.31min	137.6327ppb m	
response	33934923	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.30#
0.00	0.00	0.88#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C08W.D
 Acq On : 30 Oct 11 18:26
 Sample : Vol Std 10-30-11@300ug/L
 Misc : Water 10mLw/ IS:10-30-11
 Quant Time: Nov 3 10:40 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration



TIC: 1030C08W.D

(2) Gasoline (TMHB)		
15.64min	161.1789ppb	m
response	39740510	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.25#
0.00	0.00	0.75#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C111030\1030C09W.D Vial: 1
 Acq On : 30 Oct 11 19:09 Operator: STC
 Sample : Vol Std 10-30-11@600ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 10:41 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:32:18 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	TIC	1104080	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.04	TIC	1114811	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.25	TIC	1175050	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	15.64	TIC	65808275m	262.45271	ppb	100

Quantitation Report

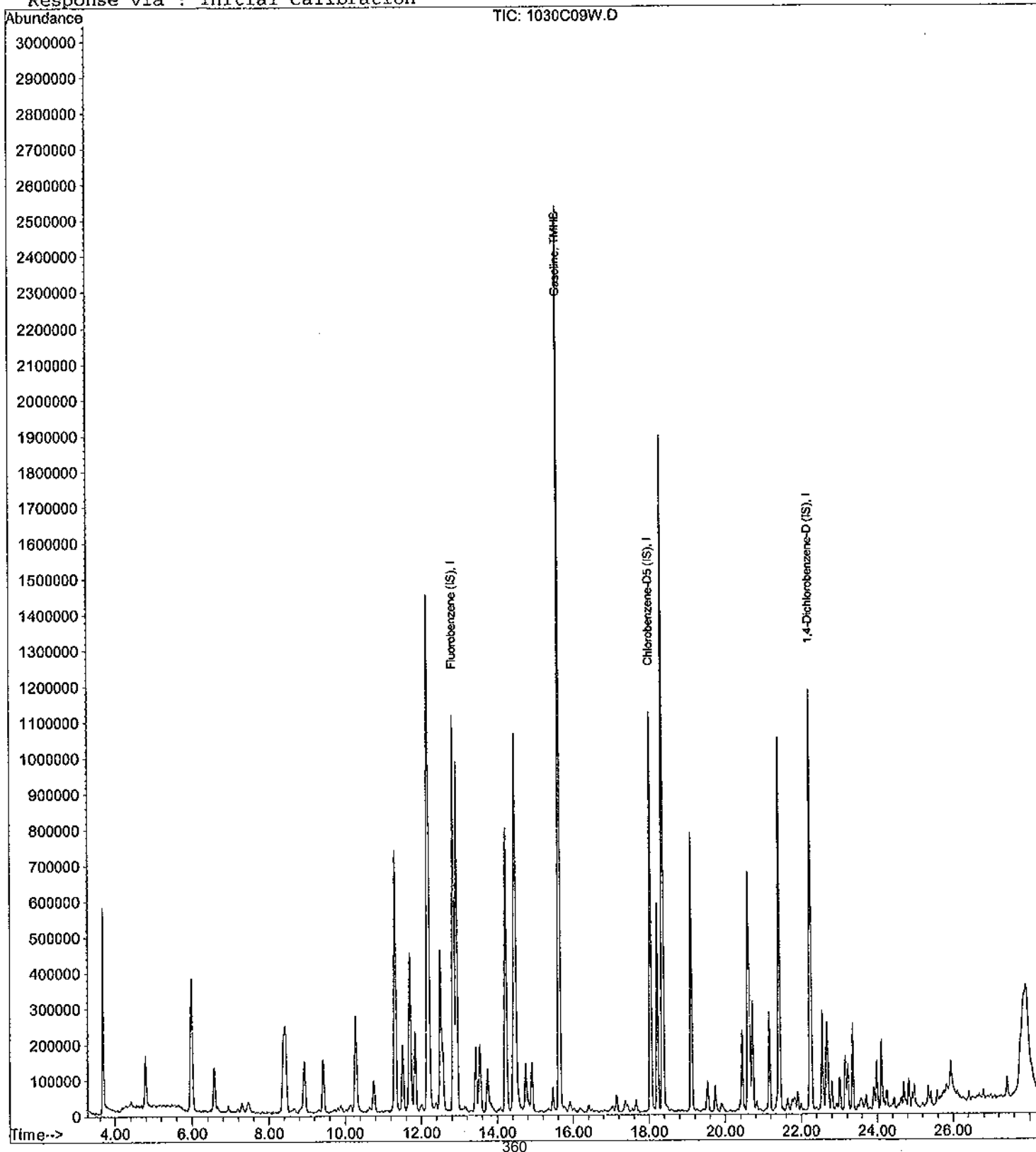
Data File : M:\CHICO\DATA\C111030\1030C09W.D
Acq On : 30 Oct 11 19:09
Sample : Vol Std 10-30-11@600ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 10:41 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260E
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration

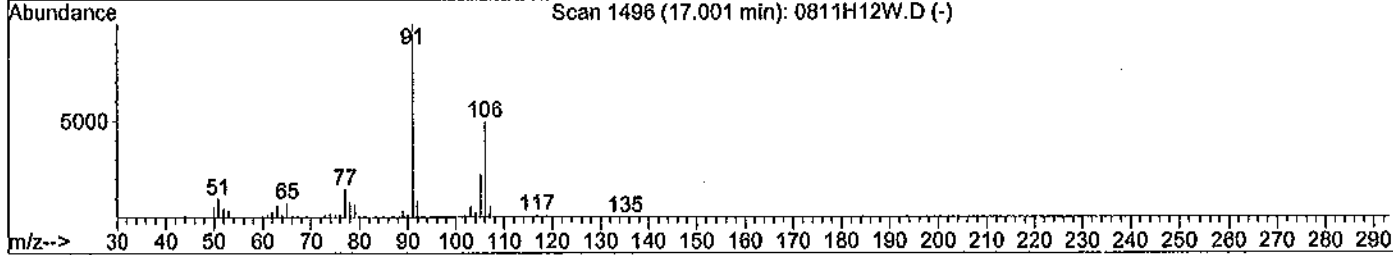
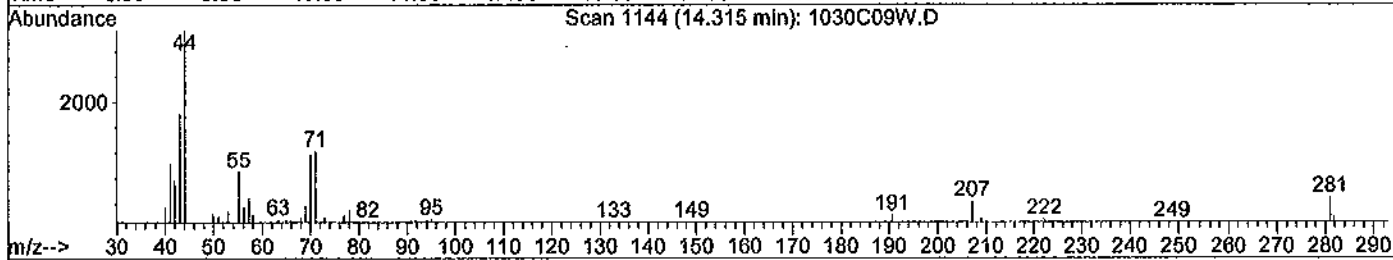
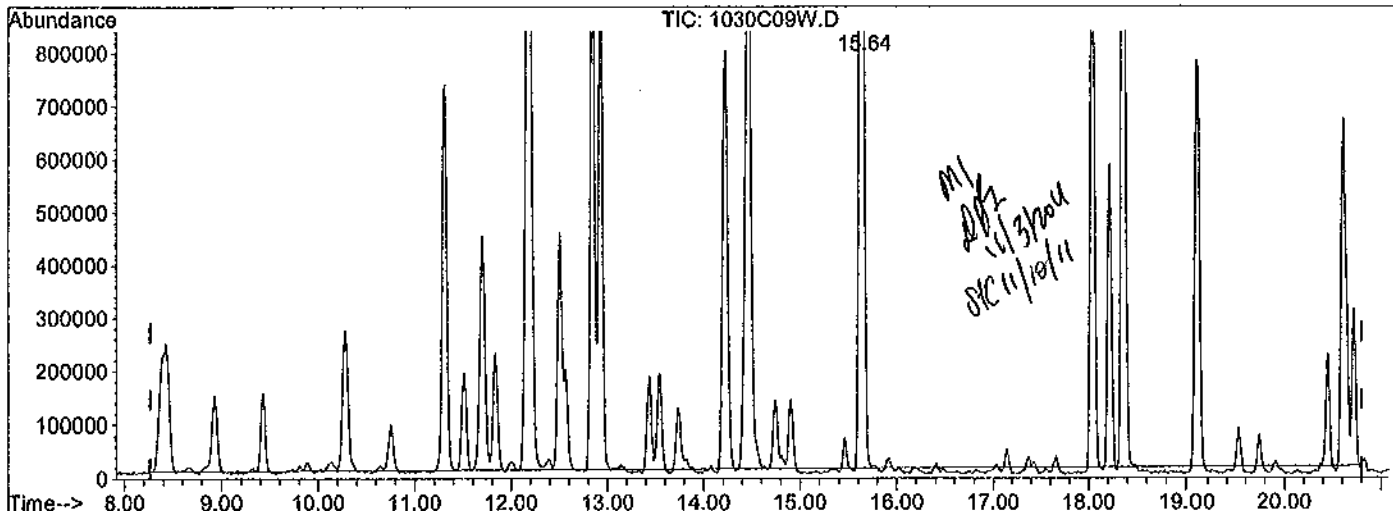


Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C09W.D
 Acq On : 30 Oct 11 19:09
 Sample : Vol Std 10-30-11@600ug/L
 Misc : Water 10mLw/ IS:10-30-11
 Quant Time: Oct 31 9:32 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration



TIC: 1030C09W.D

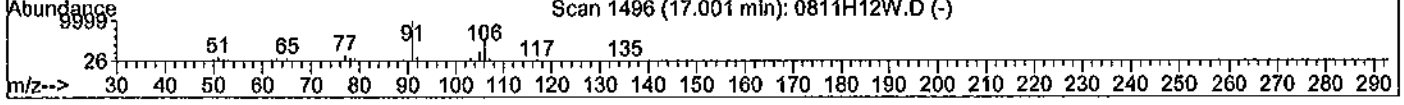
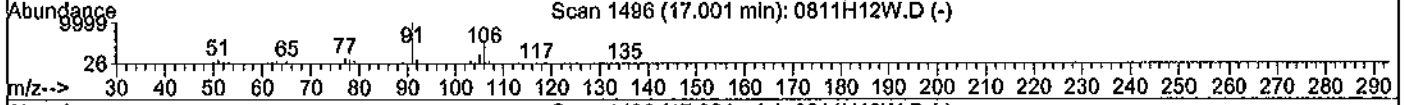
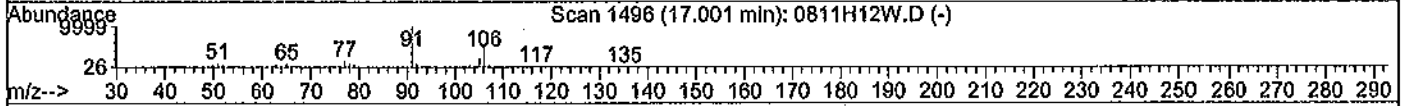
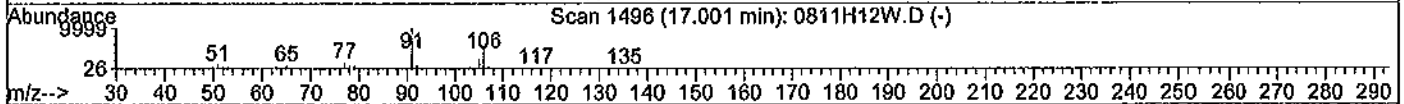
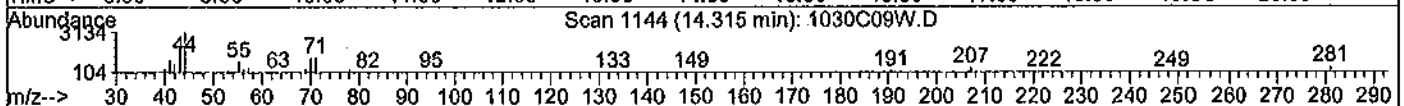
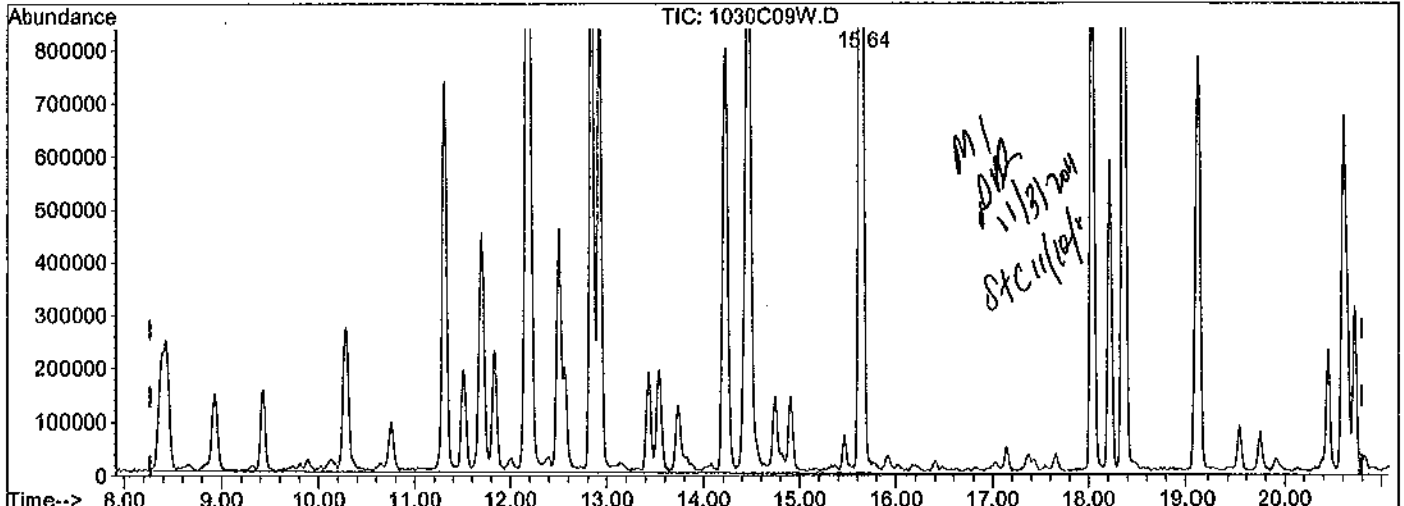
(2) Gasoline (TMHB)		
14.31min	231.1564ppb m	
response	57980938	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.18#
0.00	0.00	0.51#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C09W.D
 Acq On : 30 Oct 11 19:09
 Sample : Vol Std 10-30-11@600ug/L
 Misc : Water 10mLw/ IS:10-30-11
 Quant Time: Nov 3 10:41 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration



TIC: 1030C09W.D

(2) Gasoline (TMHB)		
15.64min	262.4527ppb	m
response	65808275	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.16#
0.00	0.00	0.45#
0.00	0.00	0.00

Data File : M:\CHICO\DATA\C111030\1030C10W.D Vial: 1
 Acq On : 30 Oct 11 19:52 Operator: STC
 Sample : Vol Std 10-30-11@800ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 10:42 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:32:18 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	TIC	1129347	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.03	TIC	1159453	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.24	TIC	1268278	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	15.63	TIC	84666447m	330.10723	ppb	100

Quantitation Report

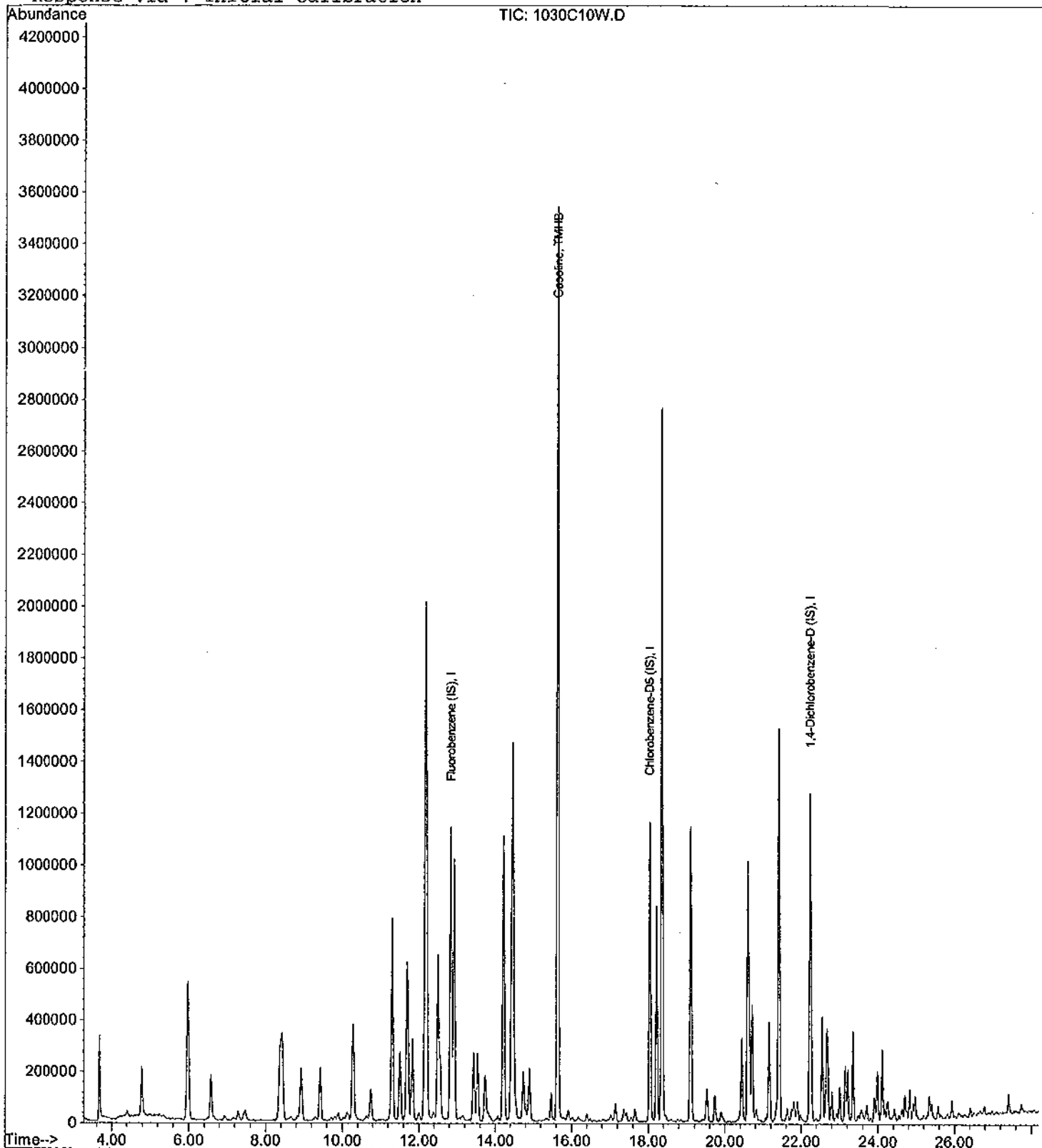
Data File : M:\CHICO\DATA\C111030\1030C10W.D
Acq On : 30 Oct 11 19:52
Sample : Vol Std 10-30-11@800ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 10:42 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration

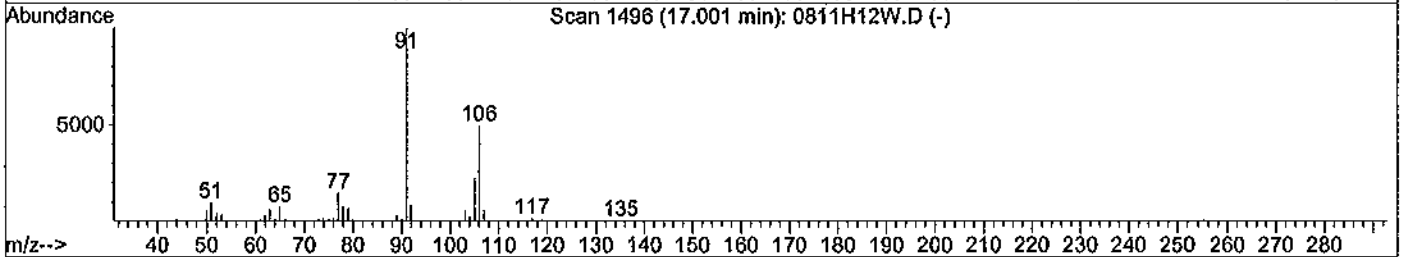
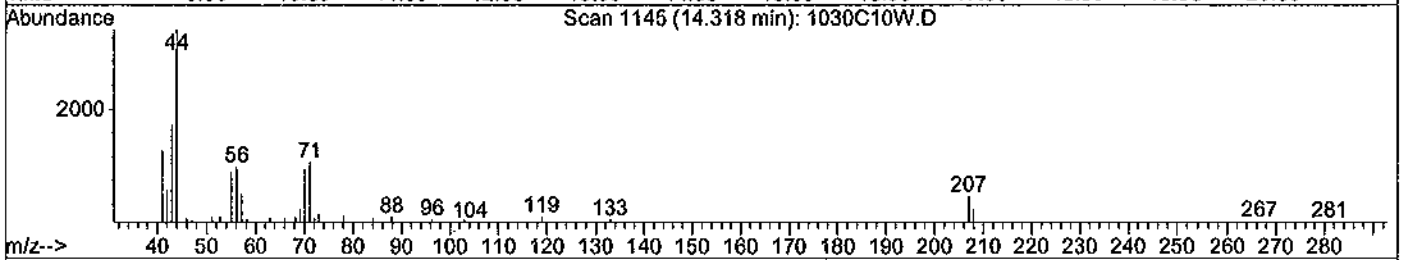
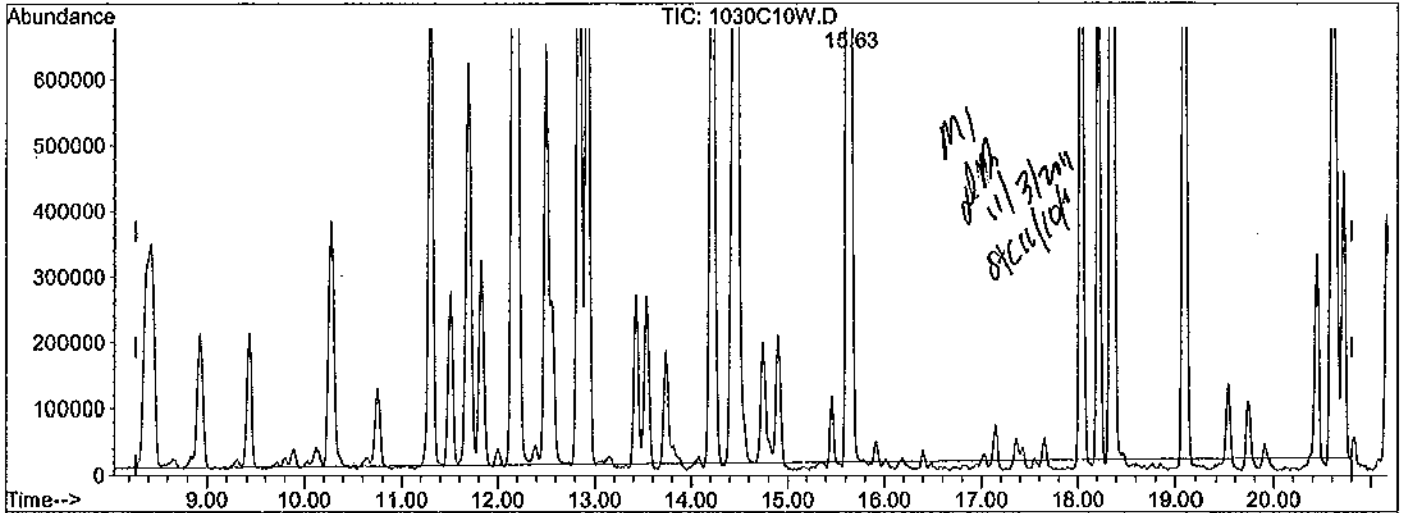


Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C10W.D
 Acq On : 30 Oct 11 19:52
 Sample : Vol Std 10-30-11@800ug/L
 Misc : Water 10mLw/ IS:10-30-11
 Quant Time: Oct 31 9:32 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration



TIC: 1030C10W.D

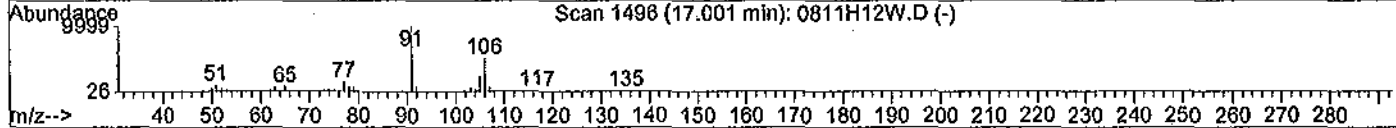
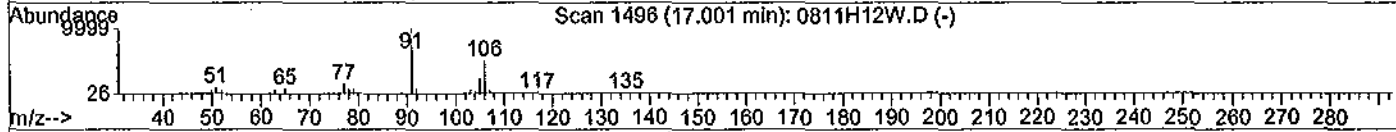
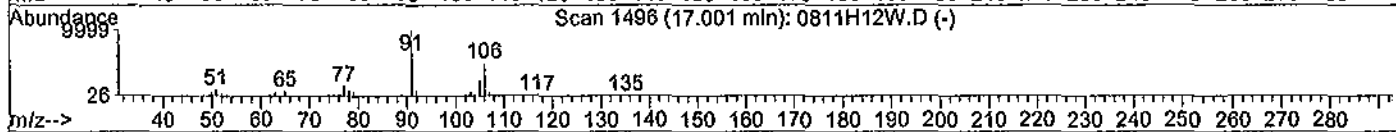
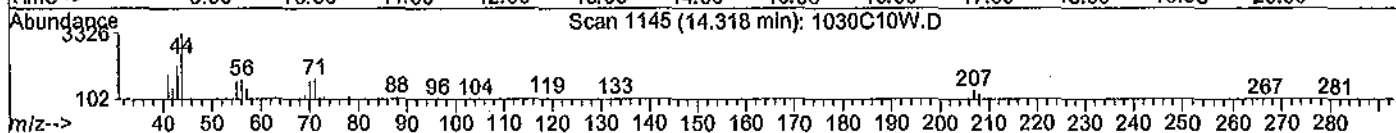
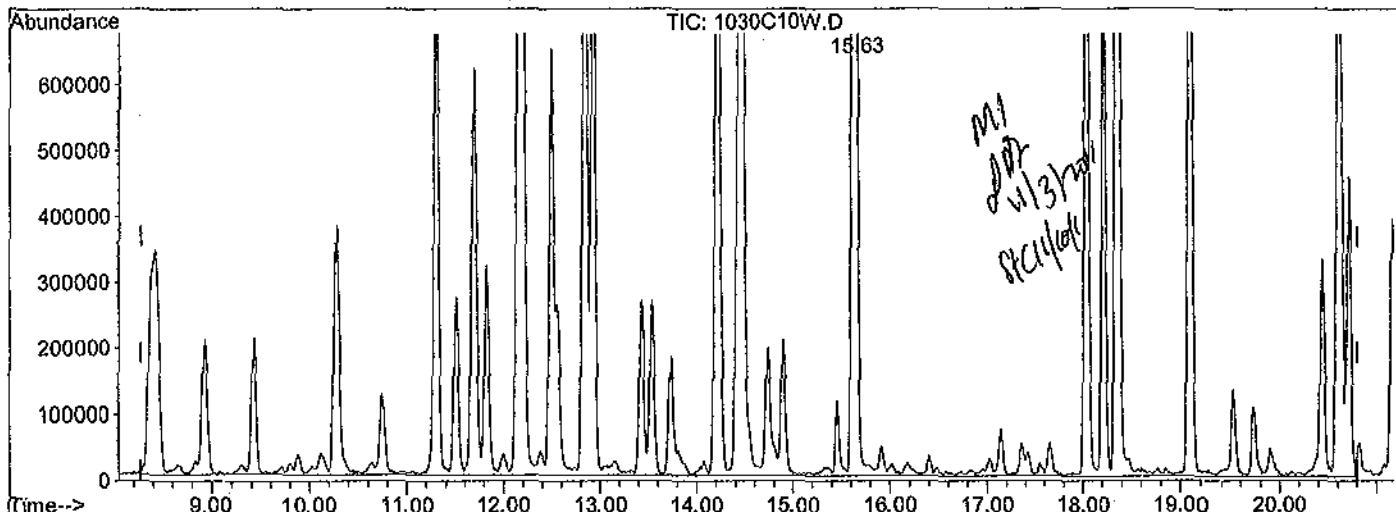
(2) Gasoline (TMHB)		
14.31min	303.9125ppb m	
response	77947975	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.13#
0.00	0.00	0.41#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C10W.D
 Acq On : 30 Oct 11 19:52
 Sample : Vol Std 10-30-11@800ug/L
 Misc : Water 10mLw/ IS:10-30-11
 Quant Time: Nov 3 10:42 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration



TIC: 1030C10W.D

(2) Gasoline (TMHB)		
15.63min	330.1072ppb m	
response	84666447	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.12#
0.00	0.00	0.38#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C111030\1030C11W.D Vial: 1
 Acq On : 30 Oct 11 20:35 Operator: STC
 Sample : Vol Std 10-30-11@1000ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 10:43 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:32:18 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	TIC	1162372	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.03	TIC	1207961	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.24	TIC	1354742	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	15.63	TIC	105748641m	400.59060	ppb	100

Quantitation Report

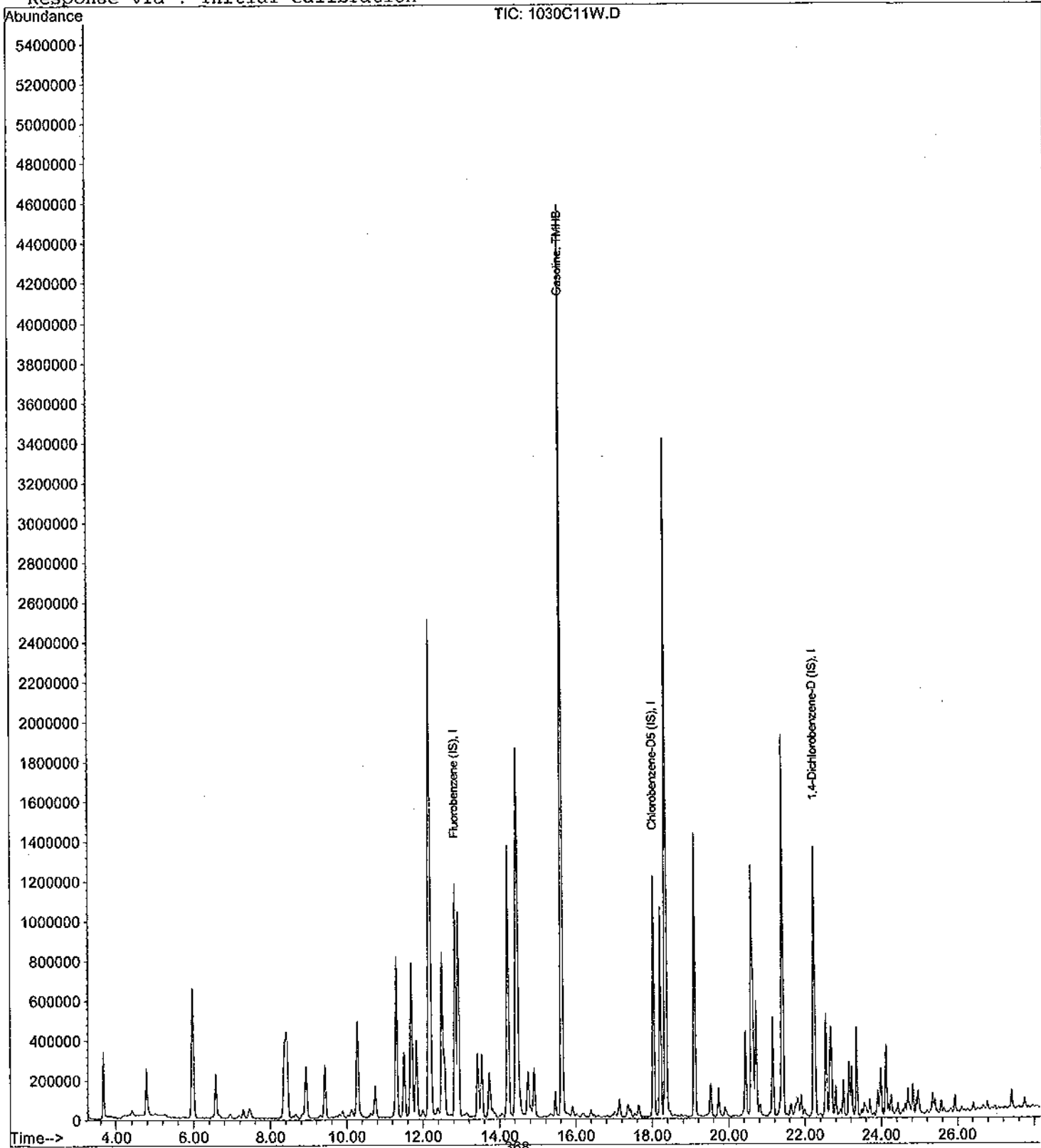
Data File : M:\CHICO\DATA\C111030\1030C11W.D
Acq On : 30 Oct 11 20:35
Sample : Vol Std 10-30-11@1000ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 10:43 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration

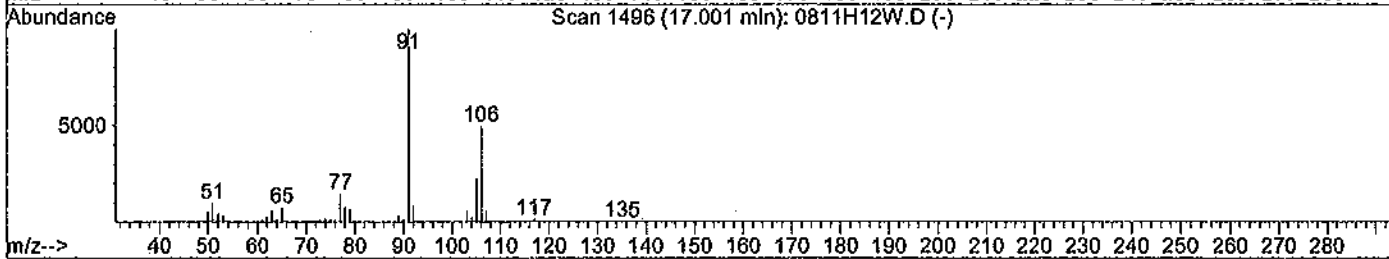
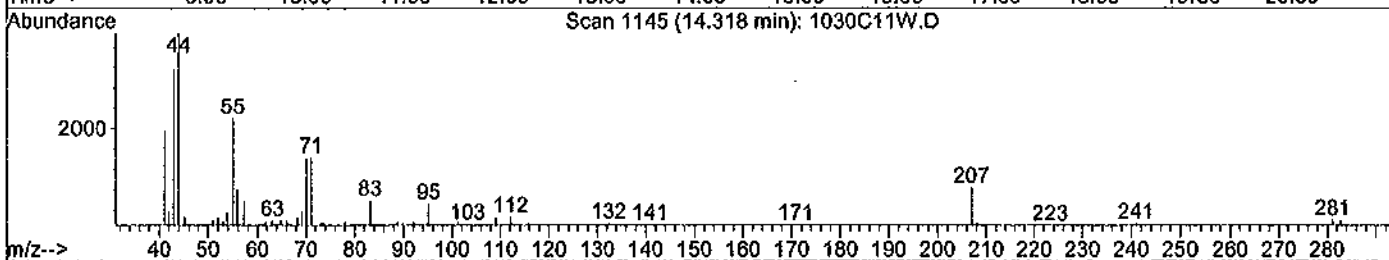
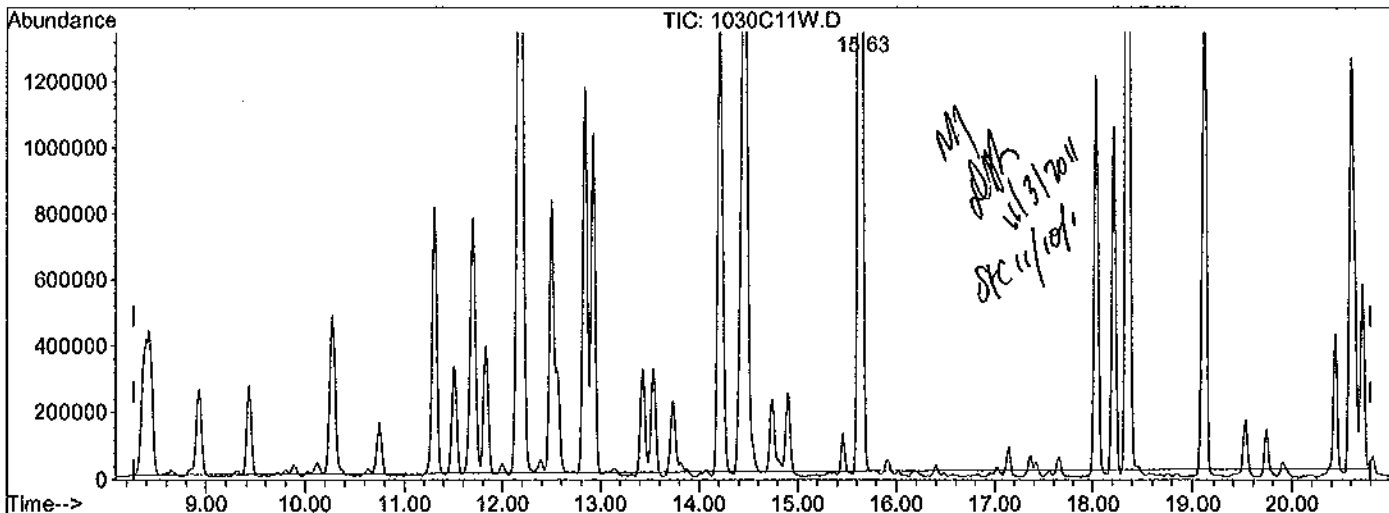


Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C11W.D
 Acq On : 30 Oct 11 20:35
 Sample : Vol Std 10-30-11@1000ug/L
 Misc : Water 10mL/ IS:10-30-11
 Quant Time: Oct 31 9:33 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration



TIC: 1030C11W.D

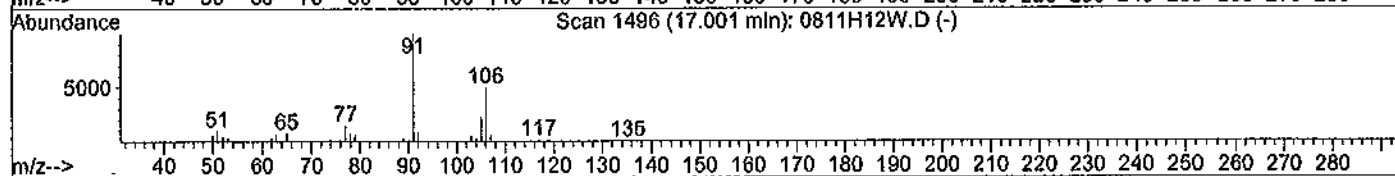
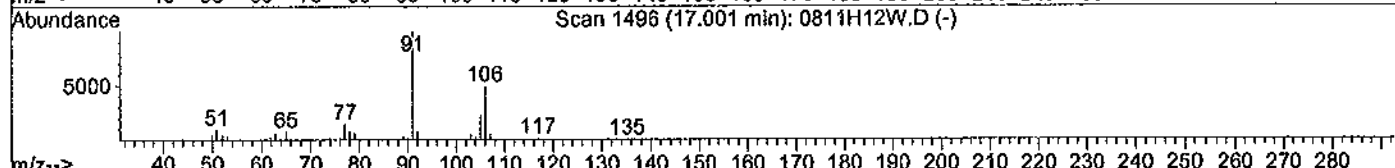
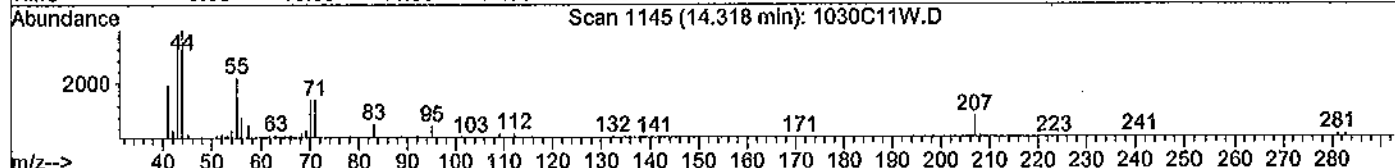
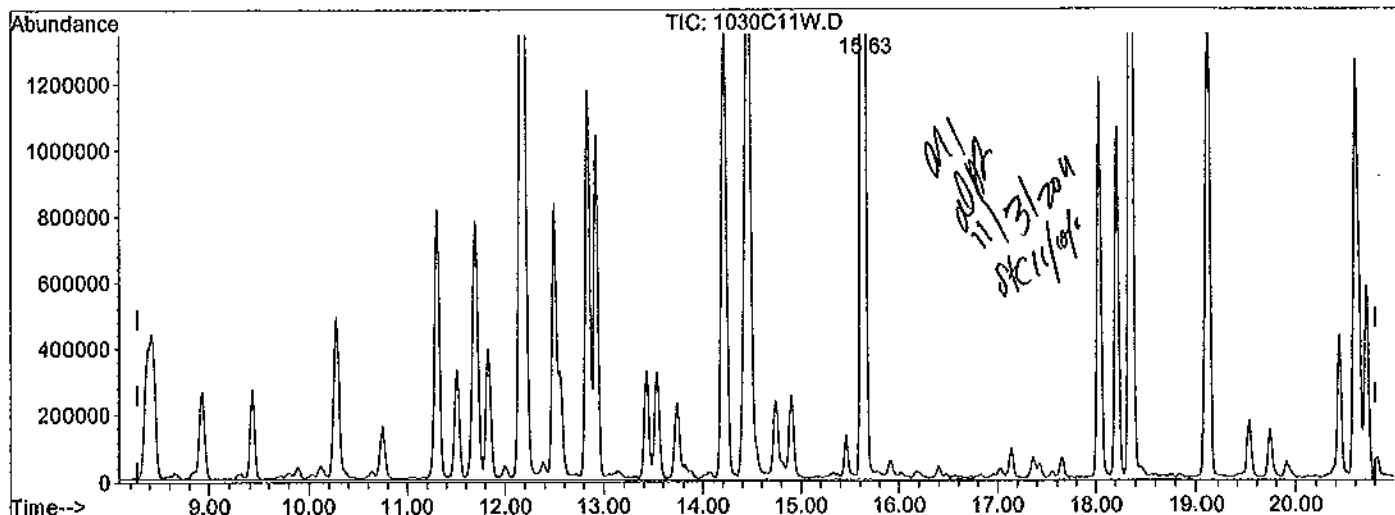
(2) Gasoline (TMHB)		
14.31min	368.6230ppb m	
response	97309775	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.11#
0.00	0.00	0.34#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C11W.D
 Acq On : 30 Oct 11 20:35
 Sample : Vol Std 10-30-11@1000ug/L
 Misc : Water 10mLw/ IS:10-30-11
 Quant Time: Nov 3 10:43 2011

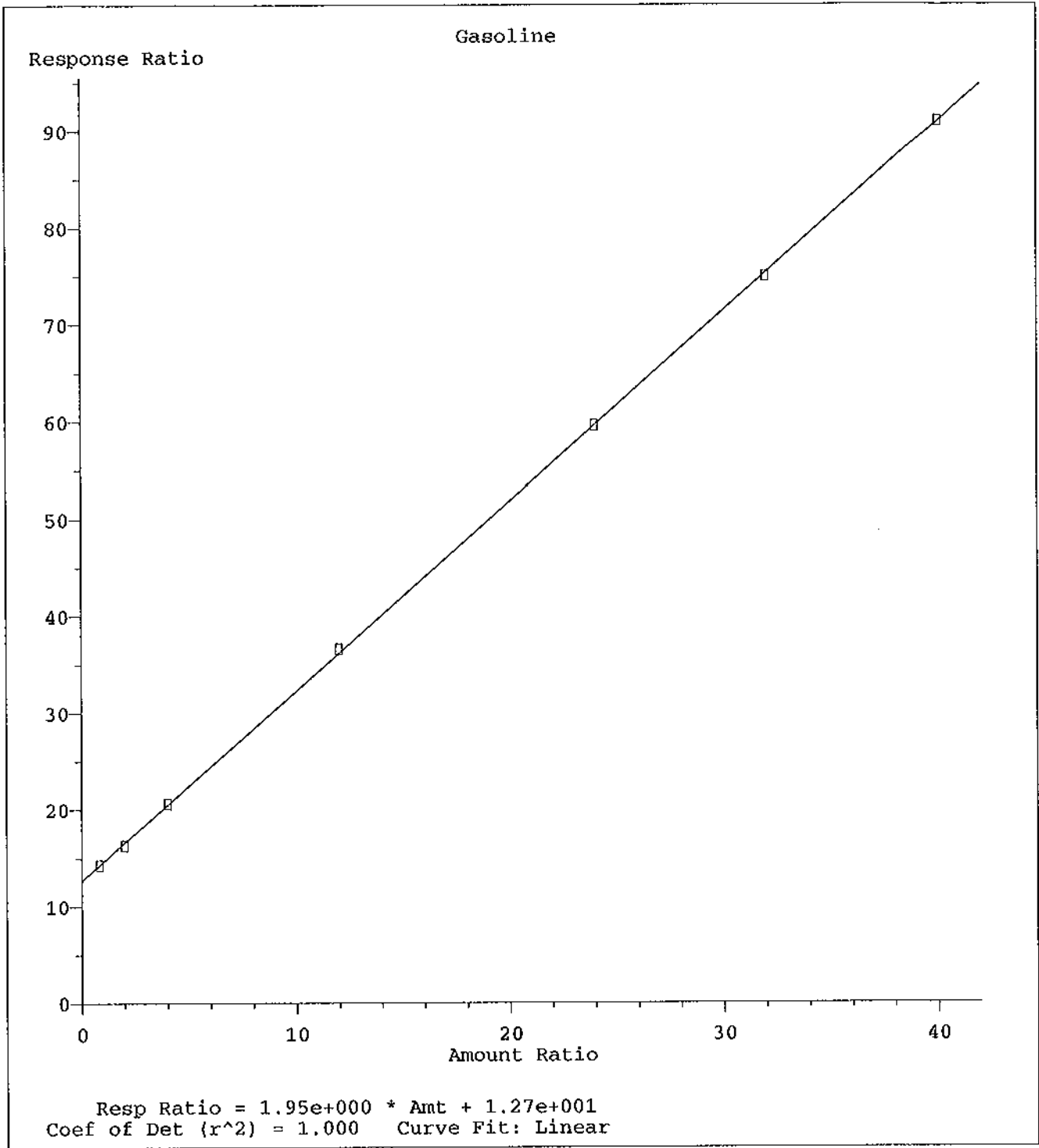
Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration



TIC: 1030C11W.D

(2) Gasoline (TMHB)		
15.63min	400.5906ppb	m
response	105748641	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.10#
0.00	0.00	0.31#
0.00	0.00	0.00



Method Name: M:\CHICO\DATA\C111030\CGAS.M
Calibration Table Last Updated: Thu Nov 03 10:47:02 2011

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 10/31/2011
Instrument: Chico
Initial Cal. Date: 10/30/2011
Data File: 1030C29W.D

	Compound	MEAN	CCRF	%D	%Drift
1	| Fluorobenzene (IS)	ISTD			|
2	TMHB Gasoline	5.897	3.226	45	TMHBL 11
3	Chlorobenzene-D5 (IS)	ISTD			
4	1,4-Dichlorobenzene-D (IS)	ISTD			
5					
6					
7					
8					
9					
10					
11					
12					
13					
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26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			45.0	

Data File : M:\CHICO\DATA\C111030\1030C29W.D Vial: 1
 Acq On : 31 Oct 11 9:31 Operator: STC
 Sample : GAS 300ug/L (SS) Inst : Chico
 Misc : Water 10mL/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 3 10:51 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	TIC	1211423	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.03	TIC	1191079	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.24	TIC	1217266	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	15.63	TIC	46900368m	332.66187	ppb	100

Quantitation Report

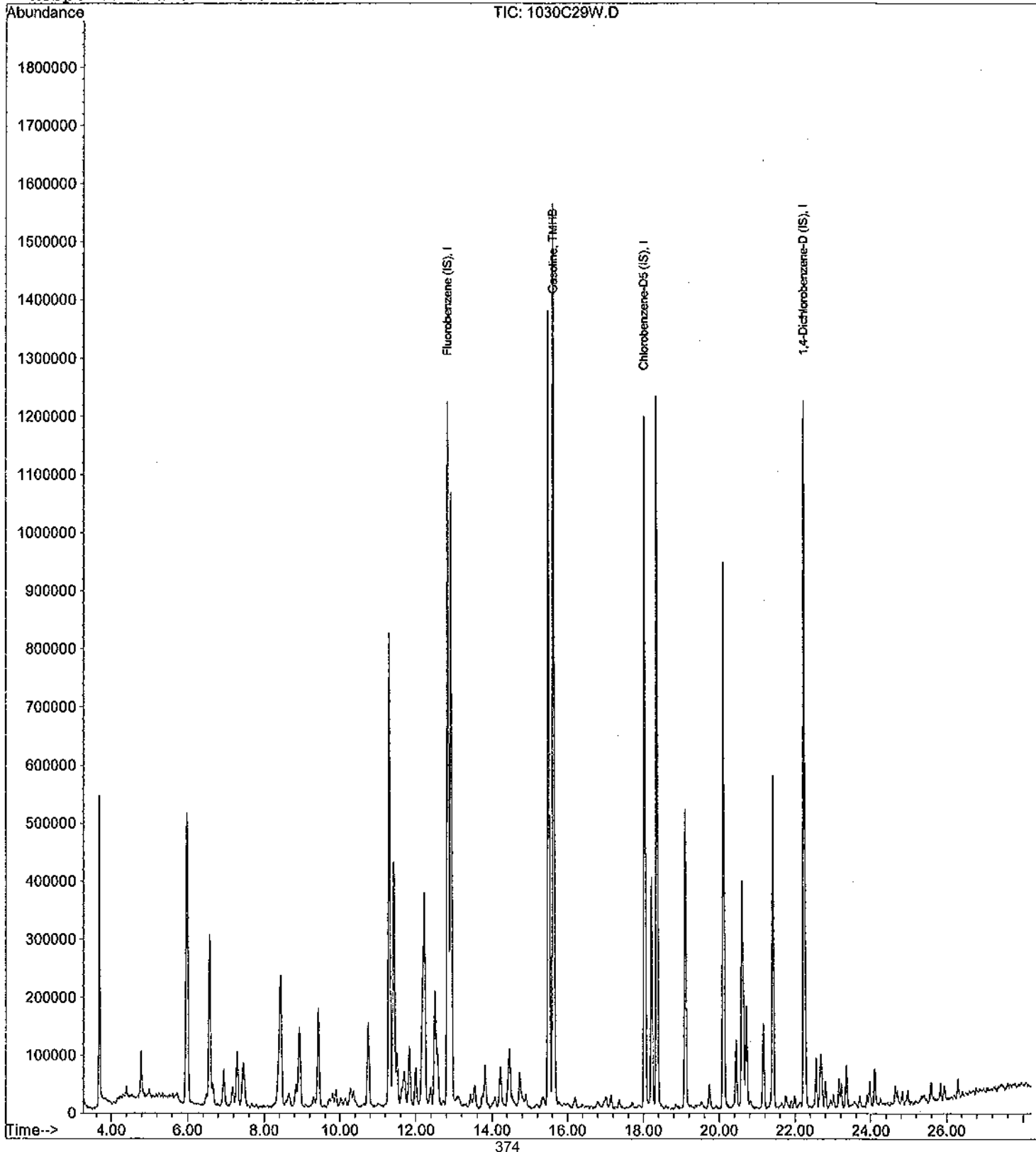
Data File : M:\CHICO\DATA\C111030\1030C29W.D
Acq On : 31 Oct 11 9:31
Sample : GAS 300ug/L (SS)
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 10:51 2011

Quant Results File: CGAS.RES

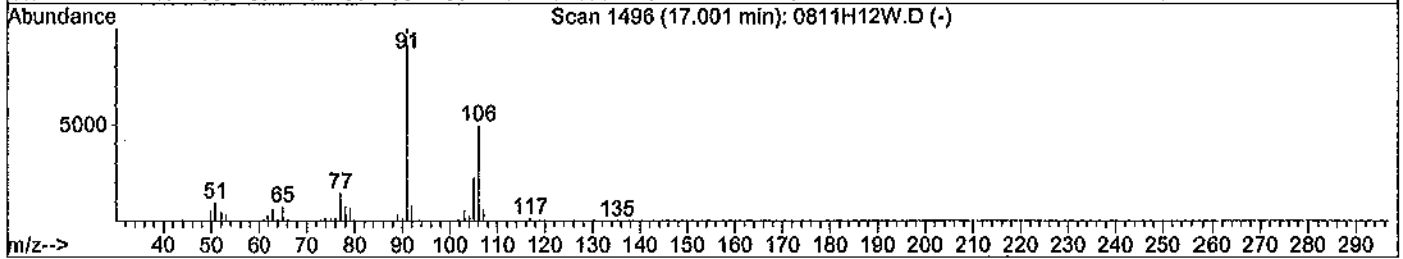
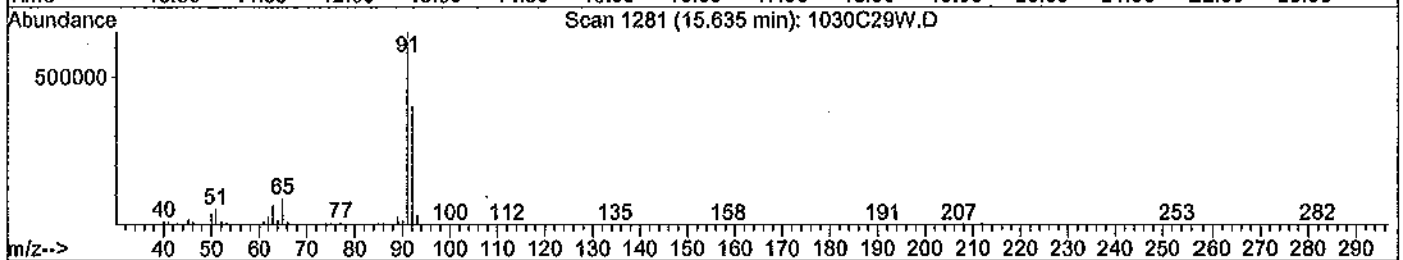
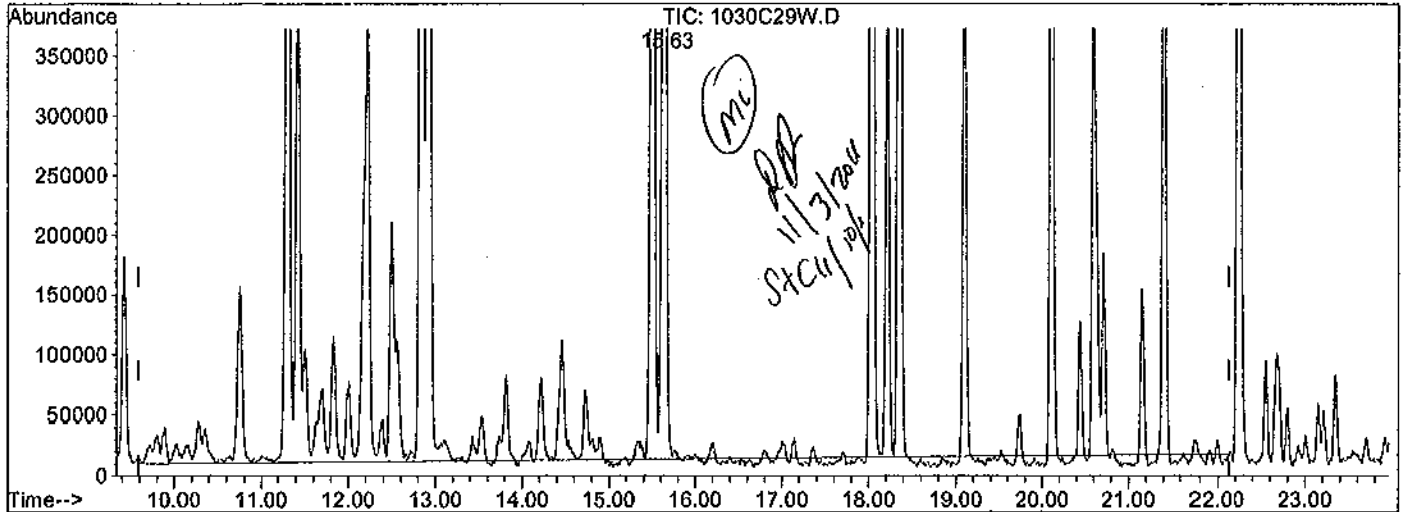
Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C29W.D Vial: 1
 Acq On : 31 Oct 11 9:31 Operator: STC
 Sample : GAS 300ug/L (SS) Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00
 Quant Time: Nov 3 10:47 2011 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Multiple Level Calibration



TIC: 1030C29W.D

(2) Gasoline (TMHB)

15.64min 275.5469ppb m

response 41492142

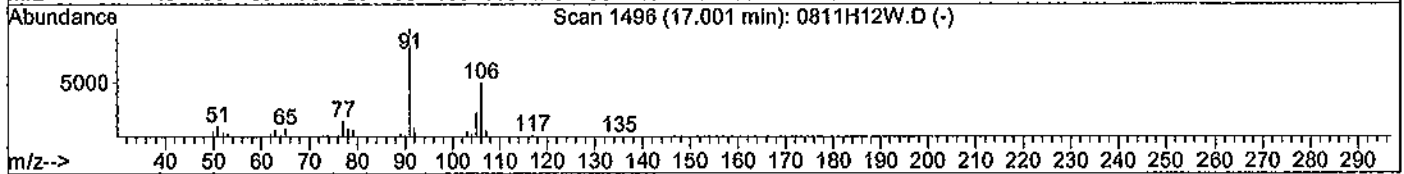
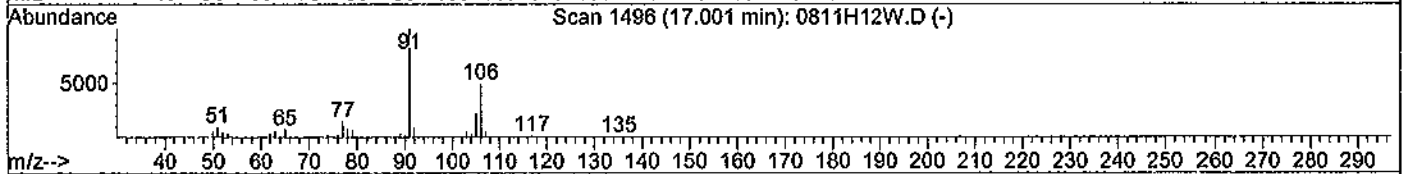
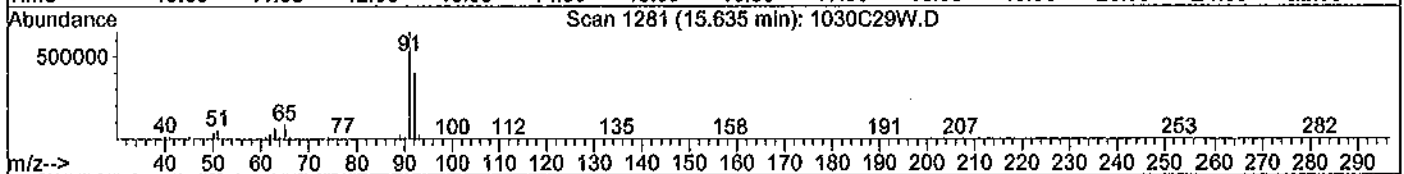
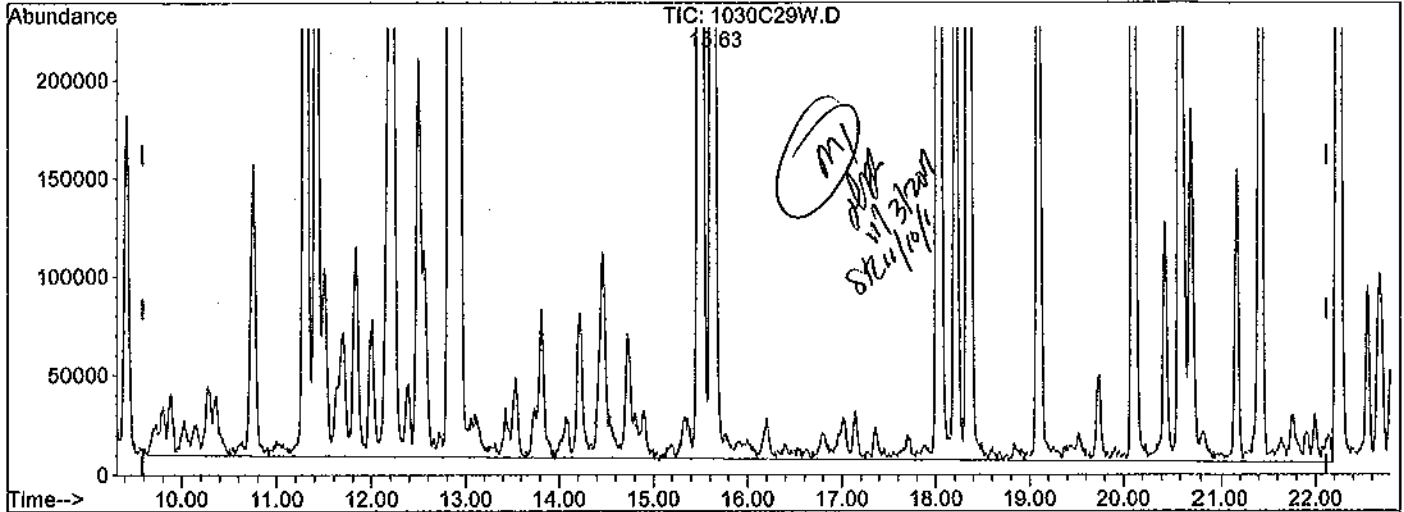
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.26#
0.00	0.00	0.78#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C29W.D
 Acq On : 31 Oct 11 9:31
 Sample : GAS 300ug/L (SS)
 Misc : Water 10mLw/ IS&S:10-30/10-26-11
 Quant Time: Nov 3 10:51 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Multiple Level Calibration



TIC: 1030C29W.D

(2) Gasoline (TMHB)		
15.63min	332.6619ppb m	
response	46900368	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.23#
0.00	0.00	0.69#
0.00	0.00	0.00

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 10/31/2011
Instrument: Chico
Initial Cal. Date: 10/30/2011
Data File: 1030C30W.D

	Compound	MEAN	CCRF	%D	%Drift
1	Fluorobenzene (IS)	ISTD			
2	TMHB Gasoline	5.897	3.225	45	TMHBL 11
3	Chlorobenzene-D5 (IS)	ISTD			
4	1,4-Dichlorobenzene-D (IS)	ISTD			
5					
6					
7					
8					
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33					
34					
35					
36					
37					
38					
39					
40	Average			45.0	

Data File : M:\CHICO\DATA\C111030\1030C30W.D Vial: 1
 Acq On : 31 Oct 11 10:14 Operator: STC
 Sample : GAS 300ug/L CCV-1WC Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 3 10:51 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	TIC	1207524	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.03	TIC	1180683	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.24	TIC	1196096	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	15.64	TIC	46736698m	332.52710	ppb	100

Quantitation Report

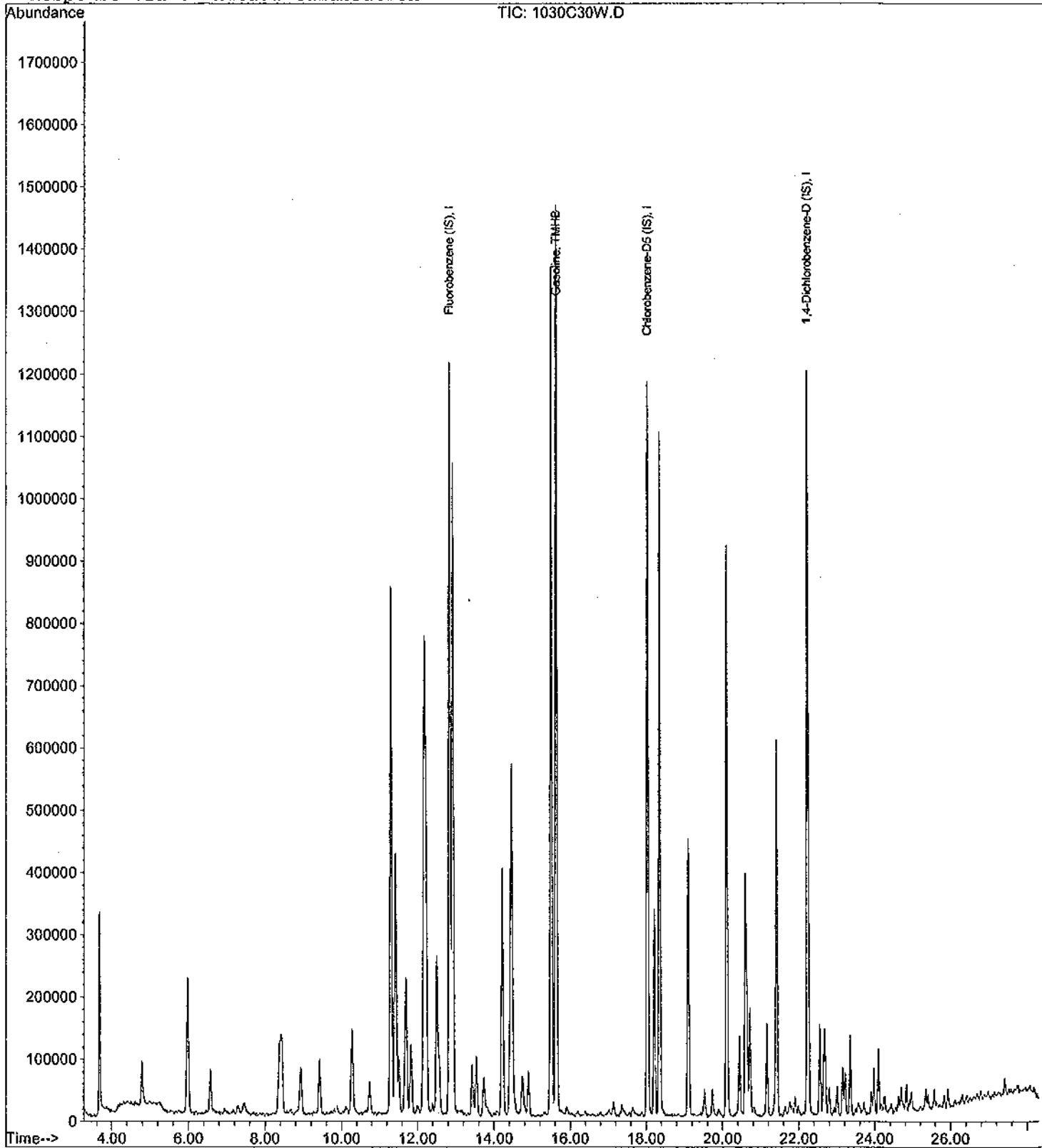
Data File : M:\CHICO\DATA\C111030\1030C30W.D
Acq On : 31 Oct 11 10:14
Sample : GAS 300ug/L CCV-1WC
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 10:51 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



EPA METHOD 8260B
Volatile Organic Compounds
Raw Data

Method Blank
EPA 8260B VOCs + Gas Water

Blank Name/QCG: 111030W-49334 - 161029
 Batch ID: #86RHB-111030AC

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1,1,1,2-TETRACHLOROETHANE	0.26 U	1.0	0.26	0.13	ug/L	10/31/11	10/31/11
BLANK	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	10/31/11	10/31/11
BLANK	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	10/31/11	10/31/11
BLANK	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	10/31/11	10/31/11
BLANK	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
BLANK	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	10/31/11	10/31/11
BLANK	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	10/31/11	10/31/11
BLANK	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	10/31/11	10/31/11
BLANK	1,2-DIBROMO-3-CHLOROPROPA	1.52 U	2.0	1.52	0.76	ug/L	10/31/11	10/31/11
BLANK	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	10/31/11	10/31/11
BLANK	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	10/31/11	10/31/11
BLANK	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	10/31/11	10/31/11
BLANK	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	10/31/11	10/31/11
BLANK	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	10/31/11	10/31/11
BLANK	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	10/31/11	10/31/11
BLANK	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
BLANK	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	10/31/11	10/31/11
BLANK	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	10/31/11	10/31/11
BLANK	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	10/31/11	10/31/11
BLANK	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	10/31/11	10/31/11
BLANK	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	10/31/11	10/31/11
BLANK	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	10/31/11	10/31/11
BLANK	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	10/31/11	10/31/11
BLANK	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	10/31/11	10/31/11
BLANK	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	10/31/11	10/31/11
BLANK	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
BLANK	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	10/31/11	10/31/11
BLANK	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	10/31/11	10/31/11
BLANK	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	10/31/11	10/31/11
BLANK	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	10/31/11	10/31/11
BLANK	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	10/31/11	10/31/11
BLANK	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	10/31/11	10/31/11
BLANK	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
BLANK	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	10/31/11	10/31/11

Quant Method:CALLW.M
 Run #:1030C34
 Instrument:Chico
 Sequence:C111030
 Initials:ARS

GC SC-Blank-REG MDLs
 Printed: 12/06/11 3:06:21 PM

Method Blank
EPA 8260B VOCs + Gas Water

Blank Name/QCG: 111030W-49334 - 161029
 Batch ID: #86RHB-111030AC

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	10/31/11	10/31/11
BLANK	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	10/31/11	10/31/11
BLANK	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	10/31/11	10/31/11
BLANK	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	10/31/11	10/31/11
BLANK	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
BLANK	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	10/31/11	10/31/11
BLANK	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	10/31/11	10/31/11
BLANK	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	10/31/11	10/31/11
BLANK	SURROGATE: 1,2-DICHLOROET	109	70-120			%	10/31/11	10/31/11
BLANK	SURROGATE: 4-BROMOFLUORO	102	75-120			%	10/31/11	10/31/11
BLANK	SURROGATE: DIBROMOFLUOR	105	85-115			%	10/31/11	10/31/11
BLANK	SURROGATE: TOLUENE-D8 (S)	102	85-120			%	10/31/11	10/31/11

Quant Method: CALLW.M
 Run #: 1030C34
 Instrument: Chico
 Sequence: C111030
 Initials: ARS

GC SC-Blank-REG MDLs
 Printed: 12/06/11 3:06:21 PM

Data File : M:\CHICO\DATA\C111030\1030C34W.D Vial: 1
 Acq On : 31 Oct 11 13:02 Operator: STC
 Sample : 111030A BLk-1WC Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 3 11:50 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Wed Nov 02 14:33:25 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	96	564158	25.00000	ppb	0.02
55) Chlorobenzene-D5 (IS)	18.05	117	392640	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.26	152	207424	25.00000	ppb	0.02
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.43	111	396364	26.37439	ppb	0.00
Spiked Amount	25.097		Recovery	=	105.087%	
38) 1,2-DCA-D4(S)	12.23	65	352223	26.32879	ppb	0.00
Spiked Amount	24.225		Recovery	=	108.684%	
56) Toluene-D8(S)	15.51	98	1448391	26.21699	ppb	0.02
Spiked Amount	25.808		Recovery	=	101.584%	
64) 4-Bromofluorobenzene(S)	20.12	95	516404	26.08735	ppb	0.00
Spiked Amount	25.459		Recovery	=	102.465%	

Target Compounds Qvalue

Quantitation Report

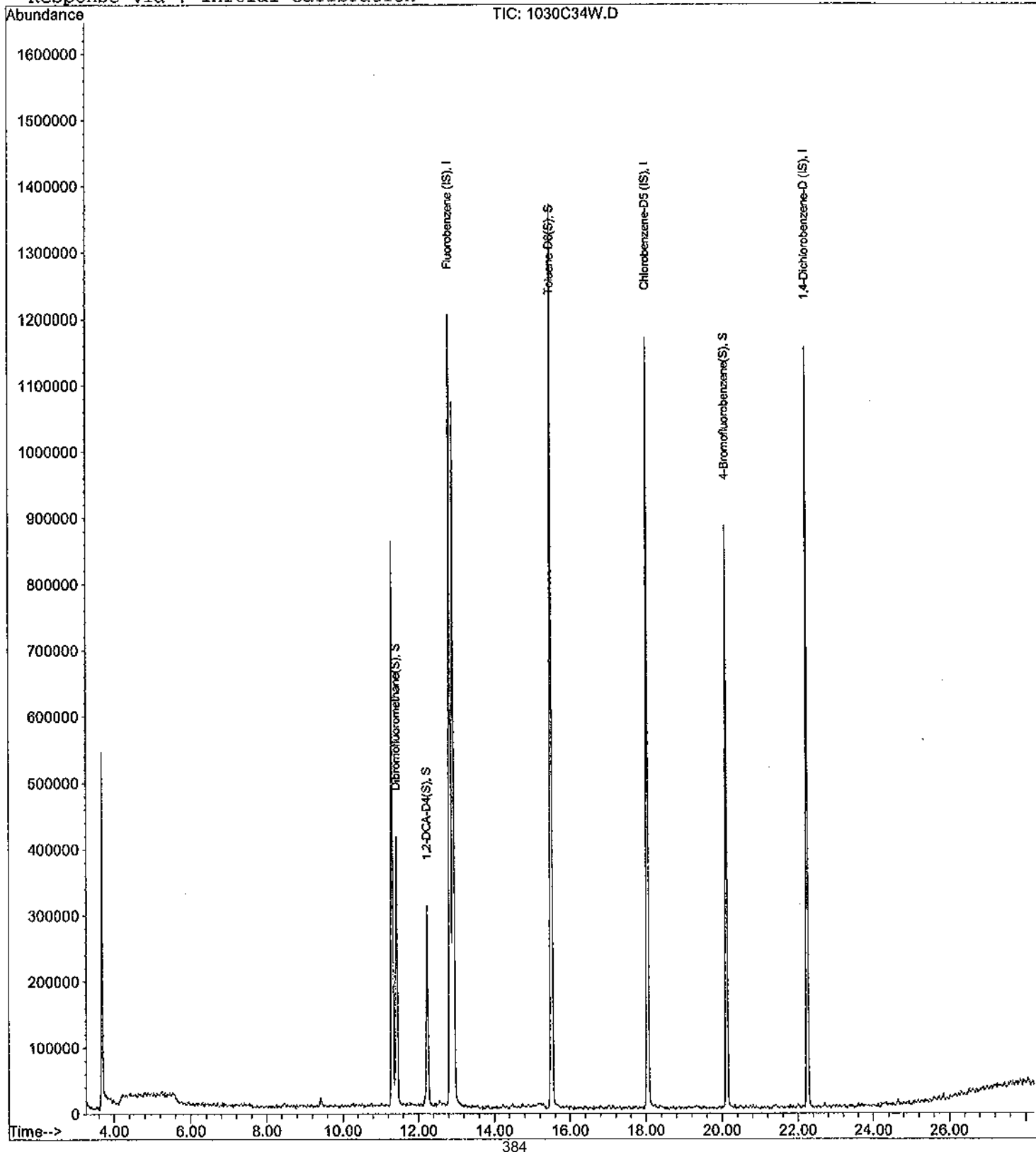
Data File : M:\CHICO\DATA\C111030\1030C34W.D
Acq On : 31 Oct 11 13:02
Sample : 111030A BLk-1WC
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 11:50 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 03 10:27:07 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C34W.D Vial: 1
 Acq On : 31 Oct 11 13:02 Operator: STC
 Sample : 111030A BLk-1WC Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 10 10:22 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	TIC	1192714	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.05	TIC	1166397	25.00000	ppb	0.01
4) 1,4-Dichlorobenzene-D (IS)	22.25	TIC	1149644	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

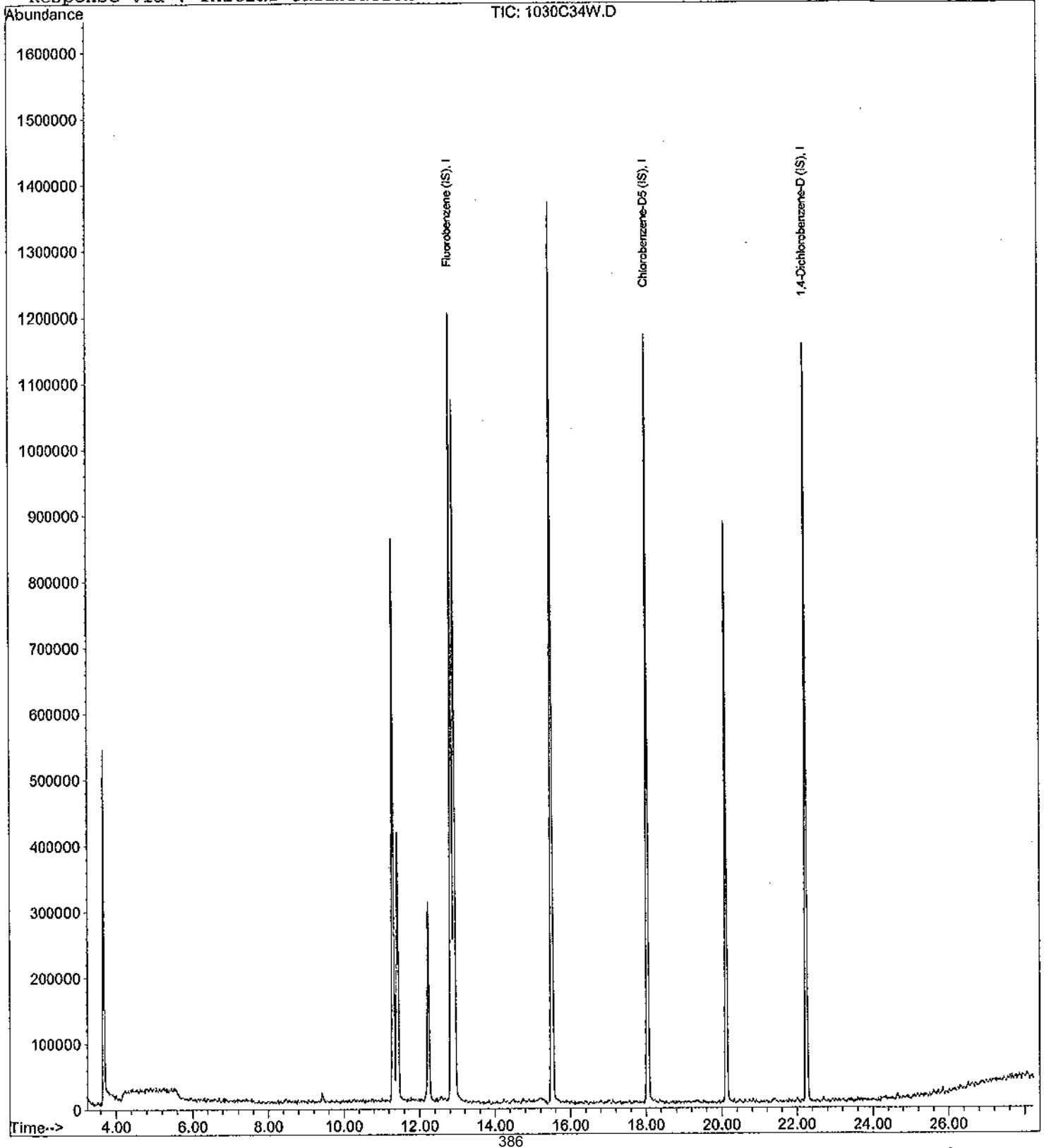
Data File : M:\CHICO\DATA\C111030\1030C34W.D
Acq On : 31 Oct 11 13:02
Sample : 111030A BLk-1WC
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 10 10:22 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Laboratory Control Spike Recovery
EPA 8260B VOCs + Gas Water

APPL ID: 111031W-49334 LCS - 161029
 Batch ID: #86RHB-111030AC

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1,1,1,2-TETRACHLOROETHANE	10.00	11.0	110	80-130
1,1,1-TRICHLOROETHANE	10.00	9.55	95.5	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	10.3	103	65-130
1,1,2-TRICHLOROETHANE	10.00	9.91	99.1	75-125
1,1-DICHLOROETHANE	10.00	9.98	99.8	70-135
1,1-DICHLOROETHENE	10.00	8.83	88.3	70-130
1,2,3-TRICHLOROPROPANE	10.00	11.8	118	75-125
1,2,4-TRICHLOROBENZENE	10.00	10.2	102	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	10.2	102	50-130
1,2-DIBROMOETHANE	10.00	10.7	107	70-130
1,2-DICHLOROBENZENE	10.00	10.1	101	70-120
1,2-DICHLOROETHANE	10.00	9.61	96.1	70-130
1,2-DICHLOROPROPANE	10.00	10.1	101	75-125
1,3-DICHLOROBENZENE	10.00	9.67	96.7	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	19.7	98.5	70-130
1,4-DICHLOROBENZENE	10.00	9.94	99.4	75-125
2-BUTANONE	10.00	10.5	105	30-150
4-METHYL-2-PENTANONE	10.00	9.78	97.8	60-135
ACETONE	10.00	13.0	130	40-140
BENZENE	10.00	9.48	94.8	80-120
BROMODICHLOROMETHANE	10.00	10.0	100	75-120
BROMOFORM	10.00	9.32	93.2	70-130
BROMOMETHANE	10.00	8.95	89.5	30-145
CARBON TETRACHLORIDE	10.00	9.77	97.7	65-140
CHLOROBENZENE	10.00	10.3	103	80-120
CHLORODIBROMOMETHANE	10.00	11.0	110	60-135

Comments: _____

<u>Primary</u>	<u>SPK</u>
Quant Method :	CALLW.M
Extraction Date :	10/31/11
Analysis Date :	10/31/11
Instrument :	Chlco
Run :	1030C28
Initials :	ARS

Printed: 12/06/11 3:06:22 PM

APPL Standard LCS

Laboratory Control Spike Recovery
EPA 8260B VOCs + Gas Water

APPL ID: 111031W-49334 LCS - 161029
 Batch ID: #86RHB-111030AC

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
CHLOROETHANE	10.00	8.89	88.9	60-135
CHLOROFORM	10.00	9.79	97.9	65-135
CHLOROMETHANE	10.00	9.42	94.2	40-125
CIS-1,2-DICHLOROETHENE	10.00	9.18	91.8	70-125
ETHYLBENZENE	10.00	10.1	101	75-125
GASOLINE	300	370	123	75-125
HEXACHLOROBUTADIENE	10.00	10.5	105	50-140
METHYL TERT-BUTYL ETHER	10.00	9.69	96.9	65-125
METHYLENE CHLORIDE	10.00	9.05	90.5	55-140
STYRENE	10.00	10.6	106	65-135
TETRACHLOROETHENE	10.00	10.1	101	45-150
TOLUENE	10.00	9.40	94.0	75-120
TRANS-1,2-DICHLOROETHENE	10.00	9.05	90.5	60-140
TRICHLOROETHENE	10.00	9.64	96.4	70-125
VINYL CHLORIDE	10.00	10.2	102	50-145
XYLENES (TOTAL)	30.0	30.3	101	80-120

SURROGATE: 1,2-DICHLOROETHANE-D	24.2	24.4	101	70-120
SURROGATE: 4-BROMOFLUOROBENZE	25.5	27.7	109	75-120
SURROGATE: DIBROMOFLUOROMETH	25.1	25.2	100	85-115
SURROGATE: TOLUENE-D8 (S)	25.8	26.9	104	85-120

Comments: _____

<u>Primary</u>	<u>SPK</u>
Quant Method :	CALLW.M
Extraction Date :	10/31/11
Analysis Date :	10/31/11
Instrument :	Chlco
Run :	1030C28
Initials :	ARS

Printed: 12/06/11 3:06:22 PM

APPL Standard LCS

Data File : M:\CHICO\DATA\C111030\1030C28W.D Vial: 1
 Acq On : 31 Oct 11 8:48 Operator: STC
 Sample : 111030A LCS-1WC (SS) Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Dec 2 11:35 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:32:50 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	96	600576	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.04	117	389760	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.24	152	212800	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.42	111	402364	25.15012	ppb	0.00
Spiked Amount	25.097		Recovery	=	100.210%	
38) 1,2-DCA-D4(S)	12.23	65	347346	24.38980	ppb	0.00
Spiked Amount	24.225		Recovery	=	100.680%	
56) Toluene-D8(S)	15.50	98	1474138	26.88019	ppb	0.00
Spiked Amount	25.808		Recovery	=	104.153%	
64) 4-Bromofluorobenzene(S)	20.11	95	543410	27.65447	ppb	0.00
Spiked Amount	25.459		Recovery	=	108.620%	
Target Compounds						
2) Dichlorodifluoromethane	4.07	85	222193	10.04166	ppb	Qvalue 100
3) Freon 114	4.33	85	146402	10.56428	ppb	93
4) Chloromethane	4.55	50	258385	9.42321	ppb	99
5) Vinyl chloride	4.82	62	186738	10.18146	ppb	96
7) Bromomethane	5.72	94	119189	8.95228	ppb	94
8) Chloroethane	5.91	64	134747	8.89428	ppb	97
9) Dichlorofluoromethane	6.01	67	386134	9.21828	ppb	97
10) Trichlorofluoromethane	6.52	101	241622	9.72027	ppb	99
11) Acetonitrile	7.64	41	78885	119.90087	ug/l	100
12) Acrolein	7.16	56	34469	114.48914	ppb	96
13) Acetone	7.27	43	22365	12.99757	ppb	# 84
14) Freon-113	7.46	101	138327	9.44782	ppb	97
15) 1,1-DCE	7.67	96	151407	8.83040	ppb	96
16) t-Butanol	7.76	59	10529	129.32077	ppb	93
17) Methyl Acetate	8.18	43	48755	9.36519	ppb	96
18) Iodomethane	8.16	142	102169	10.69989	ppb	90
19) Acrylonitrile	8.56	53	17916	9.49044	ppb	79
20) Methylene chloride	8.47	84	147951	9.04673	ppb	99
21) Carbon disulfide	8.56	76	154944	9.30051	ppb	100
22) Methyl t-butyl ether (MtBE)	8.89	73	251165	9.69151	ppb	96
23) Trans-1,2-DCE	9.10	96	180083	9.05360	ppb	88
24) Diisopropyl Ether	9.75	45	553904	9.66784	ppb	94
25) 1,1-DCA	9.79	63	339012	9.97748	ppb	99
26) Vinyl Acetate	9.42	43	104836	9.85383	ppb	# 83
27) Ethyl tert Butyl Ether	10.45	59	395408	10.10888	ppb	99
28) MEK (2-Butanone)	10.44	43	71405	10.48433	ppb	99
29) Cis-1,2-DCE	10.82	96	187663	9.18084	ppb	97
30) 2,2-Dichloropropane	10.82	77	208247	8.55600	ppb	97
31) Chloroform	11.10	83	320091	9.79258	ppb	99
32) Bromochloromethane	11.32	128	58472	10.27501	ppb	98
34) 1,1,1-TCA	11.84	97	283983	9.55329	ppb	96
35) Cyclohexane	12.00	56	268948	9.71733	ppb	94
36) 1,1-Dichloropropene	12.10	75	240188	9.42981	ppb	99
37) 2,2,4-Trimethylpentane	12.18	57	414455	9.47423	ppb	98
39) Carbon Tetrachloride	12.30	117	199898	9.76577	ppb	98
40) Tert Amyl Methyl Ether	12.34	73	292021	9.98459	ppb	99

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

1030C28W.D CALLW.M Fri Dec 02 11:35:18 2011

Data File : M:\CHICO\DATA\C111030\1030C28W.D
 Acq On : 31 Oct 11 8:48
 Sample : 111030A LCS-1WC (SS)
 Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:35 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)

Title : METHOD 8260

Last Update : Fri Dec 02 11:32:50 2011

Response via : Initial Calibration

DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
41) 1,2-DCA	12.38	62	161160	9.60516	ppb	100
42) Benzene	12.50	78	693647	9.47863	ppb	96
43) TCE	13.53	95	195399	9.64105	ppb	91
44) 2-Pentanone	13.20	43	531259	125.31057	ppb	97
45) 1,2-Dichloropropane	13.76	63	167281	10.05687	ppb	# 94
46) Bromodichloromethane	14.11	83	190021	9.99949	ppb	# 91
47) Methyl Cyclohexane	13.82	83	224538	9.48040	ppb	99
48) Dibromomethane	14.16	93	67527	10.15102	ppb	95
49) 2-Chloroethyl vinyl ether	14.57	63	42382	10.02259	ppb	95
50) 1-Bromo-2-chloroethane	14.88	63	147231	10.37368	ppb	# 79
51) Cis-1,3-Dichloropropene	15.00	75	181879	10.03716	ppb	100
52) Toluene	15.63	91	678338	9.39804	ppb	99
53) Trans-1,3-Dichloropropene	15.80	75	126600	9.70449	ppb	98
54) 1,1,2-TCA	16.08	83	69681	9.91034	ppb	93
57) 1,2-EDB	17.33	107	79107	10.66417	ppb	94
58) Tetrachloroethene	16.78	164	202010	10.08114	ppb	94
59) 1-Chlorohexane	17.70	91	232734	10.08580	ppb	97
60) 1,1,1,2-Tetrachloroethane	18.16	131	138607	11.04877	ppb	99
61) m&p-Xylene	18.35	106	589147	19.90172	ppb	97
62) o-Xylene	19.11	106	295217	10.36928	ppb	98
63) Styrene	19.13	104	457607	10.64883	ppb	93
65) 2-Hexanone	16.11	43	38770	10.87089	ppb	95
66) 1,3-Dichloropropane	16.49	76	147530	10.08561	ppb	98
67) Dibromochloromethane	16.97	129	105397	11.03714	ppb	82
68) Chlorobenzene	18.10	112	437982	10.34243	ppb	97
69) Ethylbenzene	18.22	91	794180	10.07104	ppb	100
70) Bromoform	19.65	173	45131	9.31734	ppb	91
72) MIBK (methyl isobutyl keto)	14.68	43	59150	9.77763	ppb	87
73) Isopropylbenzene	19.73	105	756513	9.80877	ppb	98
74) 1,1,2,2-Tetrachloroethane	19.90	83	66287	10.26718	ppb	# 74
75) 1,2,3-Trichloropropane	20.16	110	8565	11.81260	ppb	82
76) t-1,4-Dichloro-2-Butene	20.23	53	14963	10.22116	ppb	# 92
77) Bromobenzene	20.48	156	179052	10.06445	ppb	89
78) n-Propylbenzene	20.44	91	900774	9.79012	ppb	100
79) 4-Ethyltoluene	20.63	105	593563	9.32229	ppb	97
80) 2-Chlorotoluene	20.74	91	598129	9.81561	ppb	98
81) 1,3,5-Trimethylbenzene	20.72	105	617840	9.86323	ppb	99
82) 4-Chlorotoluene	20.82	91	502123	9.56935	ppb	98
83) Tert-Butylbenzene	21.36	119	672218	9.91209	ppb	97
84) 1,2,4-Trimethylbenzene	21.42	105	604092	9.23368	ppb	96
85) Sec-Butylbenzene	21.76	105	823845	10.12964	ppb	96
86) p-Isopropyltoluene	21.99	119	683604	9.81315	ppb	98
87) Benzyl Chloride	22.42	91	81362	8.79846	ppb	94
88) 1,3-DCB	22.12	146	351790	9.66926	ppb	95
89) 1,4-DCB	22.30	146	335795	9.94420	ppb	96
90) Hexachloroethane	23.59	117	92345	8.87470	ppb	87
91) n-Butylbenzene	22.69	91	582962	9.59448	ppb	98
92) 1,2-DCB	22.93	146	292666	10.11316	ppb	97
93) 1,2-Dibromo-3-chloropropan	24.14	155	10559	10.20135	ppb	92
94) 1,2,4-Trichlorobenzene	25.59	180	213173	10.16551	ppb	98
95) Hexachlorobutadiene	25.84	223	40176	10.54513	ppb	97

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

Data File : M:\CHICO\DATA\C111030\1030C28W.D Vial: 1
 Acq On : 31 Oct 11 8:48 Operator: STC
 Sample : 111030A LCS-1WC (SS) Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Dec 2 11:35 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:32:50 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) Naphthalene	25.94	128	272964	10.54986	ppb	99
97) 1,2,3-Trichlorobenzene	26.29	180	172357	10.86589	ppb	99

Quantitation Report

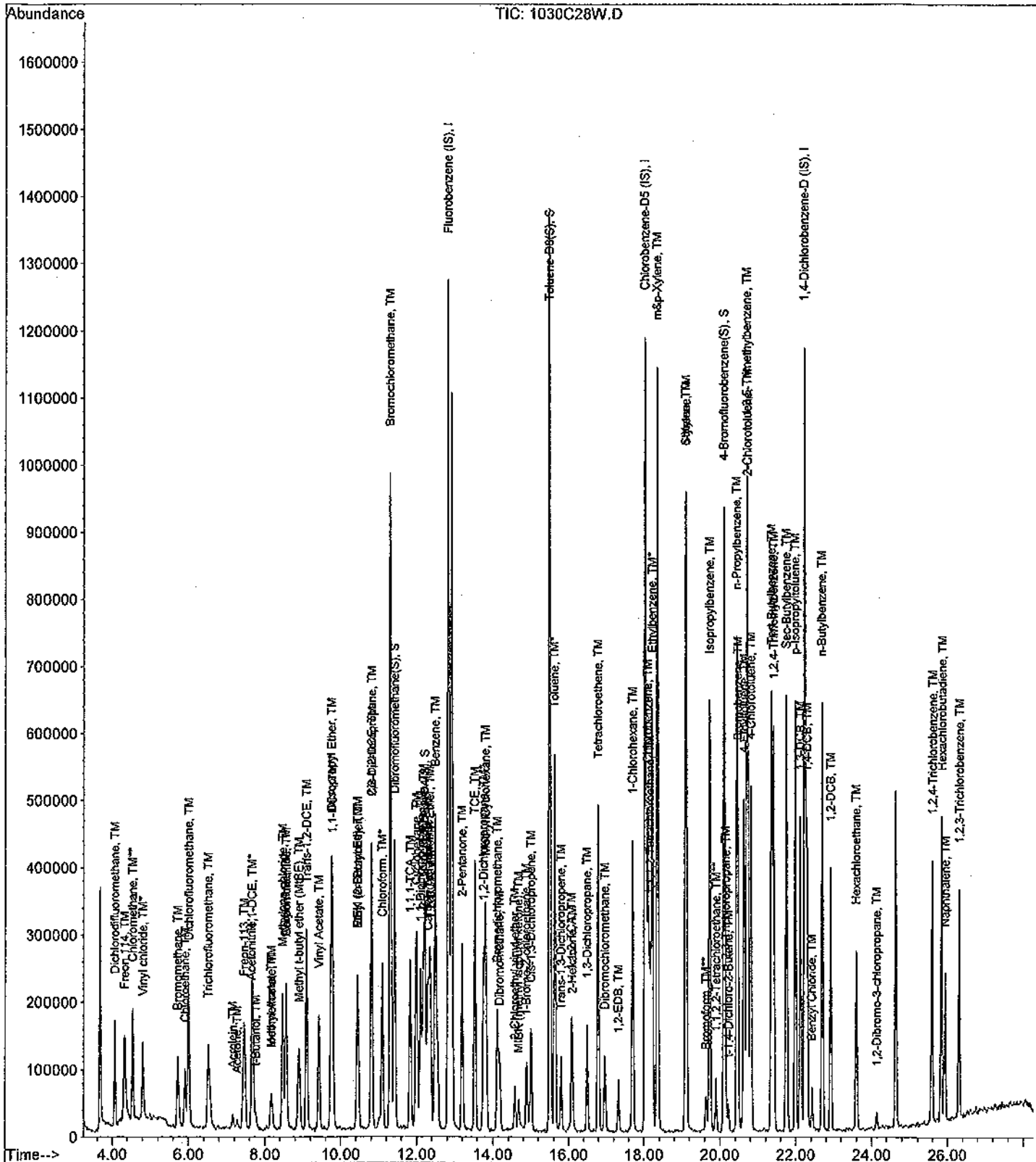
Data File : M:\CHICO\DATA\C111030\1030C28W.D
Acq On : 31 Oct 11 8:48
Sample : 111030A LCS-1WC (SS)
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Dec 2 11:35 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Dec 02 11:32:50 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C31W.D Vial: 1
 Acq On : 31 Oct 11 10:57 Operator: STC
 Sample : GAS 300ug/L LCS-1WC Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 3 10:53 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	TIC	1238145	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.04	TIC	1217687	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.25	TIC	1183942	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	15.64	TIC	51531735m	369.82724	ppb	100

Quantitation Report

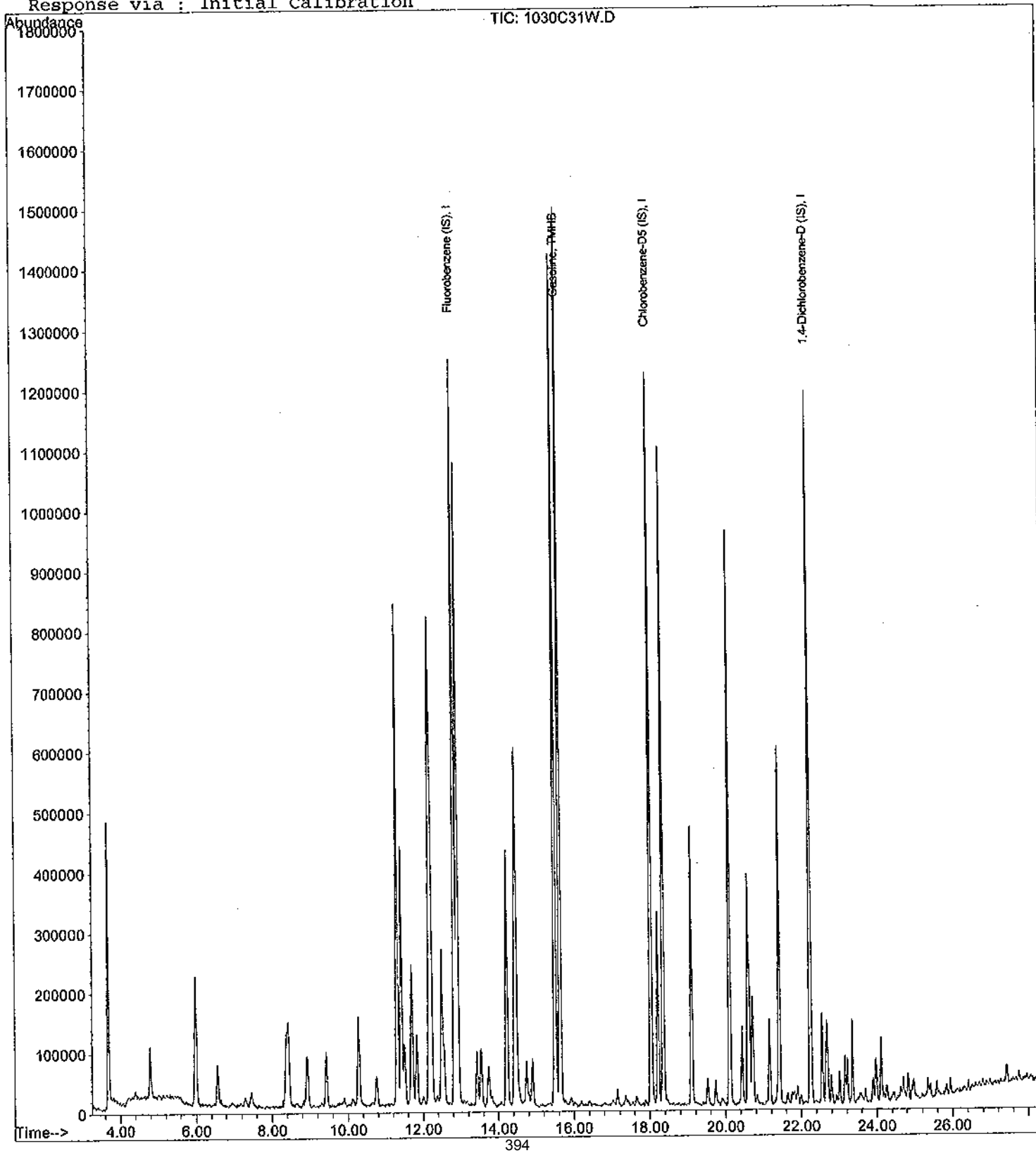
Data File : M:\CHICO\DATA\C111030\1030C31W.D
Acq On : 31 Oct 11 10:57
Sample : GAS 300ug/L LCS-1WC
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 10:53 2011

Quant Results File: CGAS.RES

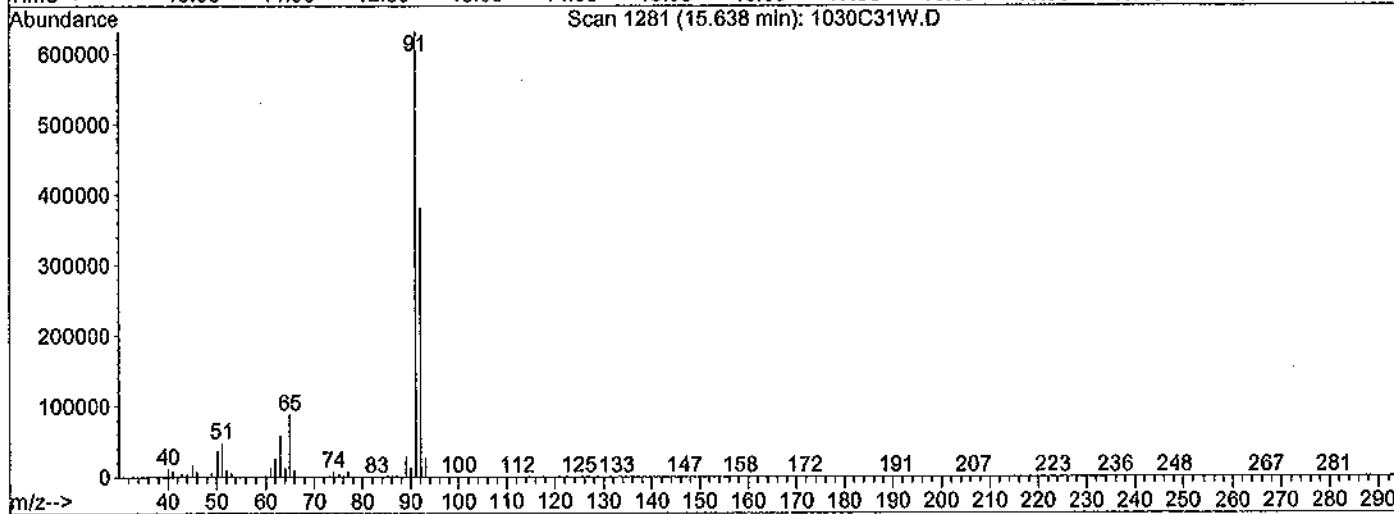
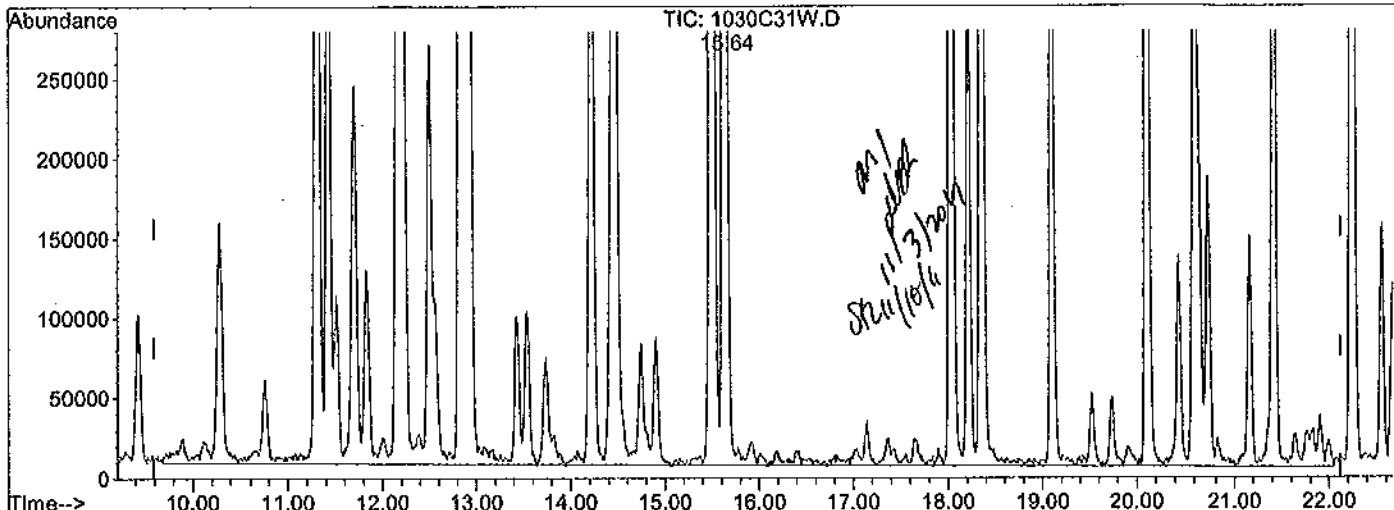
Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C31W.D Vial: 1
 Acq On : 31 Oct 11 10:57 Operator: STC
 Sample : GAA 300ug/L LCS-1WC Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00
 Quant Time: Nov 3 10:52 2011 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Multiple Level Calibration



TIC: 1030C31W.D

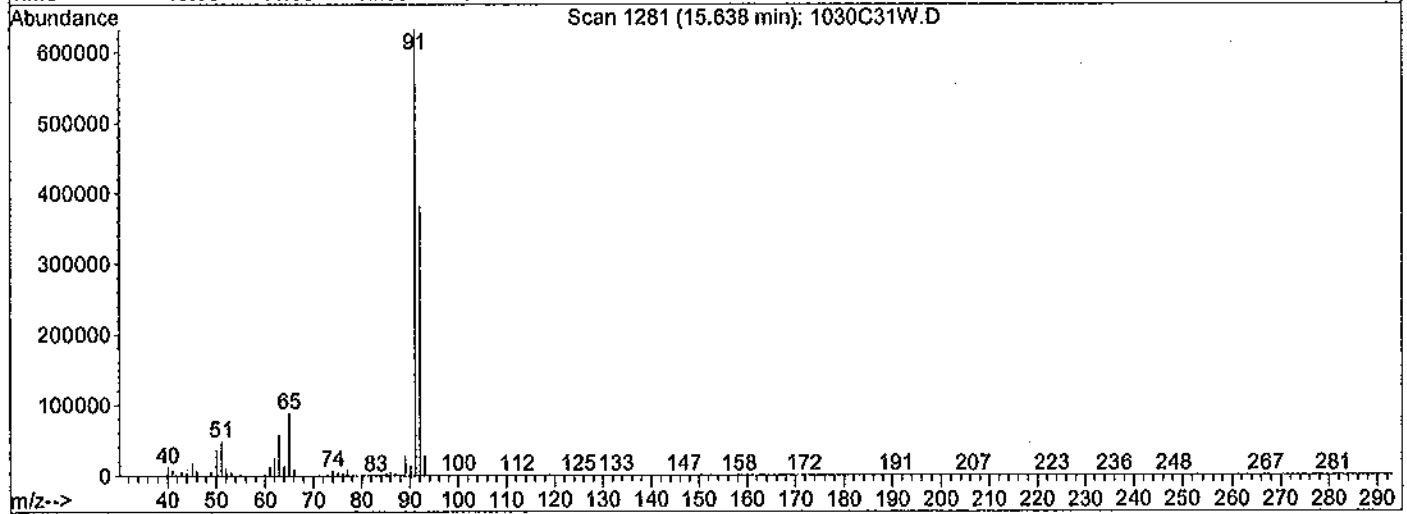
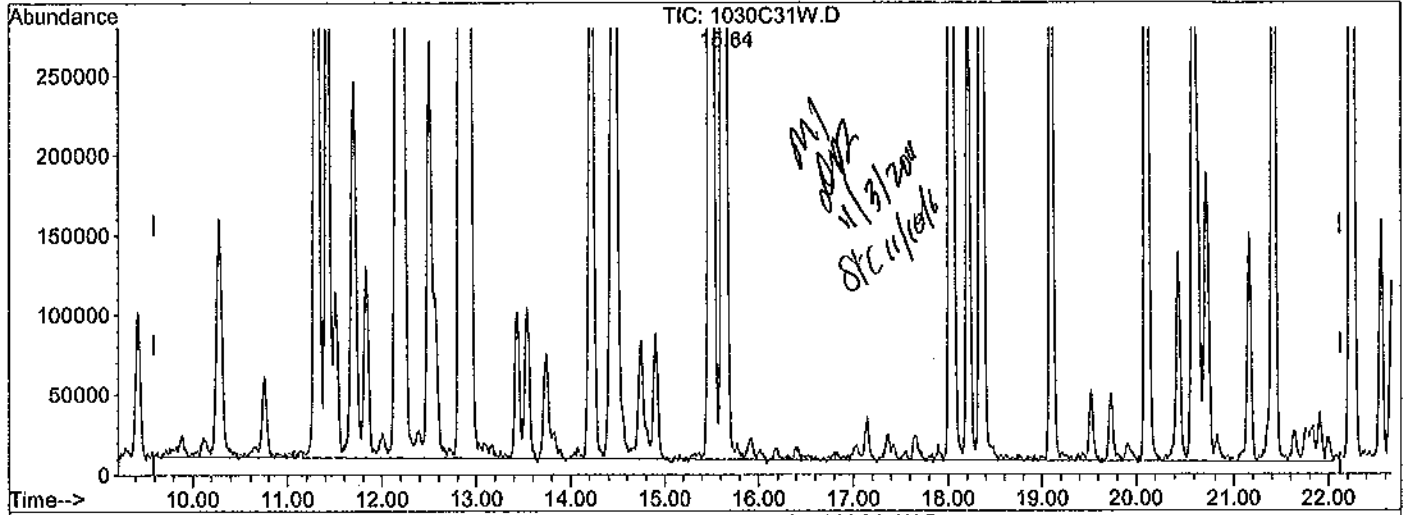
(2) Gasoline (TMHB)		
15.64min	380.8950ppb m	
response	52602858	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.21#
0.00	0.00	0.59#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C31W.D
 Acq On : 31 Oct 11 10:57
 Sample : GAA 300ug/L LCS-1WC
 Misc : Water 10mLw/ IS&S:10-30/10-26-11
 Quant Time: Nov 3 10:53 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Multiple Level Calibration



TIC: 1030C31W.D

(2) Gasoline (TMHB)		
15.64min	369.8272ppb m	
response	51531735	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.21#
0.00	0.00	0.60#
0.00	0.00	0.00

Matrix Spike Recoveries

EPA 8260B VOCs + Gas Water

APPL ID: 111031W-49334 MS - 161029

Batch ID: #86RHB-111030AC

Sample ID: AY49334

Client ID: ES047

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
1,1,1,2-TETRACHLOROETHANE	10.00	ND	10.9	11.2	109	112	80-130	2.7	30
1,1,1-TRICHLOROETHANE	10.00	ND	8.95	9.51	89.5	95.1	65-130	6.1	30
1,1,2,2-TETRACHLOROETHANE	10.00	ND	12.7	12.6	127	126	65-130	0.79	30
1,1,2-TRICHLOROETHANE	10.00	ND	10.6	10.6	106	106	75-125	0.0	30
1,1-DICHLOROETHANE	10.00	ND	9.46	9.94	94.6	99.4	70-135	4.9	30
1,1-DICHLOROETHENE	10.00	ND	8.96	9.50	89.6	95.0	70-130	5.9	30
1,2,3-TRICHLOROPROPANE	10.00	ND	11.6	11.4	116	114	75-125	1.7	30
1,2,4-TRICHLOROBENZENE	10.00	ND	9.55	10.1	95.5	101	65-135	5.6	30
1,2-DIBROMO-3-CHLOROPROPANE	10.00	ND	11.2	12.2	112	122	50-130	8.5	30
1,2-DIBROMOETHANE	10.00	ND	10.9	10.8	109	108	70-130	0.92	30
1,2-DICHLOROBENZENE	10.00	ND	9.85	10.2	98.5	102	70-120	3.5	30
1,2-DICHLOROETHANE	10.00	ND	8.97	9.48	89.7	94.8	70-130	5.5	30
1,2-DICHLOROPROPANE	10.00	ND	9.62	10.5	96.2	105	75-125	8.7	30
1,3-DICHLOROBENZENE	10.00	ND	9.68	10.1	96.8	101	75-125	4.2	30
1,3-DICHLOROPROPENE, TOTAL	20.0	ND	20.4	20.9	102	105	70-130	2.4	30
1,4-DICHLOROBENZENE	10.00	ND	9.80	10.2	98.0	102	75-125	4.0	30
2-BUTANONE	10.00	ND	10.5	10.2	105	102	30-150	2.9	30
4-METHYL-2-PENTANONE	10.00	ND	11.0	11.0	110	110	60-135	0.0	30
ACETONE	10.00	ND	11.9	13.6	119	136	40-140	13.3	30
BENZENE	10.00	ND	9.56	10.2	95.6	102	80-120	6.5	30
BROMODICHLOROMETHANE	10.00	ND	9.85	10.3	98.5	103	75-120	4.5	30
BROMOFORM	10.00	ND	9.59	10.1	95.9	101	70-130	5.2	30
BROMOMETHANE	10.00	ND	9.35	9.85	93.5	98.5	30-145	5.2	30
CARBON TETRACHLORIDE	10.00	ND	9.77	9.93	97.7	99.3	65-140	1.6	30
CHLOROBENZENE	10.00	ND	9.68	10.1	96.8	101	80-120	4.2	30

= Recovery is outside QC limits.

Comments:

Primary	SPK	DUP
Quant Method :	CALLW.M	CALLW.M
Extraction Date :	10/31/11	10/31/11
Analysis Date :	10/31/11	10/31/11
Instrument :	Chico	Chico
Run :	1030C39	1030C40
Initials :	ARS	

Printed: 12/06/11 3:06:24 PM

APPL MSD SCII

Matrix Spike Recoveries
EPA 8260B VOCs + Gas Water

APPL ID: 111031W-49334 MS - 181029
Batch ID: #86RHB-111030AC
Sample ID: AY49334
Client ID: ES047

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Lvl ug/L	Matrix Result ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
CHLORODIBROMOMETHANE	10.00	ND	10.8	11.4	108	114	60-135	5.4	30
CHLOROETHANE	10.00	ND	8.88	9.26	88.8	92.6	60-135	4.2	30
CHLOROFORM	10.00	ND	9.21	9.65	92.1	96.5	65-135	4.7	30
CHLOROMETHANE	10.00	ND	8.69	9.03	86.9	90.3	40-125	3.8	30
CIS-1,2-DICHLOROETHENE	10.00	ND	9.19	9.57	91.9	95.7	70-125	4.1	30
ETHYLBENZENE	10.00	ND	9.73	10.3	97.3	103	75-125	5.7	30
GASOLINE	300	ND	374	377	125	126 #	75-125	0.80	30
HEXACHLOROBUTADIENE	10.00	ND	9.04	9.78	90.4	97.8	50-140	7.9	30
METHYL TERT-BUTYL ETHER	10.00	ND	10.1	10.2	101	102	65-125	0.99	30
METHYLENE CHLORIDE	10.00	ND	9.83	9.84	98.3	98.4	55-140	0.10	30
STYRENE	10.00	ND	10.2	10.6	102	106	65-135	3.8	30
TETRACHLOROETHENE	10.00	ND	9.48	10.3	94.8	103	45-150	8.3	30
TOLUENE	10.00	ND	9.46	10.4	94.6	104	75-120	9.5	30
TRANS-1,2-DICHLOROETHENE	10.00	ND	9.17	9.47	91.7	94.7	60-140	3.2	30
TRICHLOROETHENE	10.00	ND	9.00	9.38	90.0	93.8	70-125	4.1	30
VINYL CHLORIDE	10.00	ND	9.90	9.78	99.0	97.8	50-145	1.2	30
XYLENES (TOTAL)	30.0	ND	29.1	30.7	97.0	102	80-120	5.4	30

SURROGATE: 1,2-DICHLOROETHANE-D	24.2	NA	22.7	22.3	93.7	92.1	70-120		
SURROGATE: 4-BROMOFLUOROBENZE	25.5	NA	25.8	26.7	101	105	75-120		
SURROGATE: DIBROMOFLUOROMETH	25.1	NA	24.7	25.0	98.4	99.6	85-115		
SURROGATE: TOLUENE-D8 (S)	25.8	NA	26.3	26.9	102	104	85-120		

= Recovery is outside QC limits.

Comments: _____

Primary	SPK	DUP
Quant Method :	CALLW.M	CALLW.M
Extraction Date :	10/31/11	10/31/11
Analysis Date :	10/31/11	10/31/11
Instrument :	Chico	Chico
Run :	1030C39	1030C40
Initials :	ARS	

Printed: 12/06/11 3:06:24 PM
APPL MSD SCII

Data File : M:\CHICO\DATA\C111030\1030C39W.D Vial: 1
 Acq On : 31 Oct 11 16:08 Operator: STC
 Sample : AY49334W141516 MS-1WC (VOC) Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Dec 2 11:35 2011 Quant Results File: CALLW.REB

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:32:50 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	96	673315	25.00000	ppb	0.02
55) Chlorobenzene-D5 (IS)	18.05	117	444608	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.26	152	234048	25.00000	ppb	0.02
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.43	111	443656	24.73529	ppb	0.00
Spiked Amount	25.097		Recovery	=	98.557%	
38) 1,2-DCA-D4(S)	12.23	65	361670	22.65208	ppb	0.00
Spiked Amount	24.225		Recovery	=	93.506%	
56) Toluene-D8(S)	15.51	98	1644192	26.28251	ppb	0.02
Spiked Amount	25.808		Recovery	=	101.839%	
64) 4-Bromofluorobenzene(S)	20.12	95	578226	25.79618	ppb	0.00
Spiked Amount	25.459		Recovery	=	101.322%	
Target Compounds						
2) Dichlorodifluoromethane	4.08	85	233739	9.42228	ppb	96
3) Freon 114	4.34	85	156235	10.05590	ppb	100
4) Chloromethane	4.56	50	267000	8.68546	ppb	98
5) Vinyl chloride	4.82	62	203545	9.89891	ppb	95
7) Bromomethane	5.73	94	139543	9.34878	ppb	90
8) Chloroethane	5.92	64	150908	8.88492	ppb	95
9) Dichlorofluoromethane	6.01	67	417786	8.89643	ppb	98
10) Trichlorofluoromethane	6.55	101	259316	9.30510	ppb	97
11) Acetonitrile	7.67	41	102299	138.69122	ug/l	100
12) Acrolein	7.18	56	41239	122.17811	ppb	98
13) Acetone	7.30	43	23028	11.93711	ppb	# 67
14) Freon-113	7.48	101	166680	10.24118	ppb	91
15) 1,1-DCE	7.69	96	172282	8.96239	ppb	93
16) t-Butanol	7.78	59	13291	145.60910	ppb	93
17) Methyl Acetate	8.21	43	57808	9.94422	ppb	98
18) Iodomethane	8.17	142	85074	8.93041	ppb	91
19) Acrylonitrile	8.59	53	23274	11.05716	ppb	92
20) Methylene chloride	8.48	84	180285	9.83293	ppb	97
21) Carbon disulfide	8.57	76	184128	9.85829	ppb	99
22) Methyl t-butyl ether (MtBE)	8.92	73	294046	10.12039	ppb	91
23) Trans-1,2-DCE	9.11	96	204403	9.16612	ppb	91
24) Diisopropyl Ether	9.77	45	657158	10.23091	ppb	91
25) 1,1-DCA	9.80	63	360267	9.45758	ppb	96
26) Vinyl Acetate	9.43	43	123424	10.42529	ppb	85
27) Ethyl tert Butyl Ether	10.46	59	458722	10.46060	ppb	99
28) MEK (2-Butanone)	10.44	43	79943	10.46895	ppb	94
29) Cis-1,2-DCE	10.83	96	210715	9.19494	ppb	93
30) 2,2-Dichloropropane	10.82	77	272392	9.98243	ppb	100
31) Chloroform	11.10	83	337366	9.20607	ppb	100
32) Bromochloromethane	11.33	128	66189	10.37457	ppb	# 71
34) 1,1,1-TCA	11.85	97	298219	8.94840	ppb	96
35) Cyclohexane	12.01	56	300163	9.67354	ppb	99
36) 1,1-Dichloropropene	12.12	75	263597	9.23085	ppb	96
37) 2,2,4-Trimethylpentane	12.19	57	501585	10.31895	ppb	95
39) Carbon Tetrachloride	12.31	117	224210	9.77018	ppb	100
40) Tert Amyl Methyl Ether	12.36	73	337649	10.29749	ppb	# 95

(#) = qualifier out of range (m) = manual integration
 1030C39W.D CALLW.M Fri Dec 02 11:35:28 2011

Data File : M:\CHICO\DATA\C111030\1030C39W.D
 Acq On : 31 Oct 11 16:08
 Sample : AY49334W141516 MS-1WC (VOC)
 Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:35 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:32:50 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
41) 1,2-DCA	12.39	62	168650	8.96568	ppb	99
42) Benzene	12.52	78	784311	9.55972	ppb	98
43) TCE	13.55	95	204442	8.99750	ppb	90
44) 2-Pentanone	13.21	43	641372	134.94011	ppb	98
45) 1,2-Dichloropropane	13.77	63	179306	9.61525	ppb	# 92
46) Bromodichloromethane	14.13	83	209814	9.84828	ppb	85
47) Methyl Cyclohexane	13.83	83	264020	9.94314	ppb	99
48) Dibromomethane	14.18	93	75188	10.08162	ppb	96
49) 2-Chloroethyl vinyl ether	14.59	63	44799	9.44967	ppb	97
50) 1-Bromo-2-chloroethane	14.89	63	159282	10.01037	ppb	91
51) Cis-1,3-Dichloropropene	15.02	75	212722	10.47106	ppb	97
52) Toluene	15.65	91	765314	9.45759	ppb	97
53) Trans-1,3-Dichloropropene	15.81	75	145848	9.97216	ppb	99
54) 1,1,2-TCA	16.09	83	83942	10.64886	ppb	94
57) 1,2-EDB	17.34	107	92334	10.91173	ppb	92
58) Tetrachloroethene	16.80	164	216714	9.48077	ppb	97
59) 1-Chlorohexane	17.72	91	263885	10.02502	ppb	88
60) 1,1,1,2-Tetrachloroethane	18.17	131	156166	10.91277	ppb	96
61) m&p-Xylene	18.37	106	646753	19.15250	ppb	99
62) o-Xylene	19.11	106	322766	9.93837	ppb	99
63) Styrene	19.13	104	500812	10.21655	ppb	96
65) 2-Hexanone	16.11	43	49009	12.04661	ppb	98
66) 1,3-Dichloropropane	16.51	76	172305	10.32618	ppb	99
67) Dibromochloromethane	16.98	129	117679	10.80307	ppb	87
68) Chlorobenzene	18.12	112	467466	9.67690	ppb	98
69) Ethylbenzene	18.23	91	875108	9.72830	ppb	98
70) Bromoform	19.65	173	53217	9.59314	ppb	95
72) MIBK (methyl isobutyl keto)	14.68	43	73055	10.97983	ppb	80
73) Isopropylbenzene	19.75	105	1154759	13.61308	ppb	99
74) 1,1,2,2-Tetrachloroethane	19.92	83	90087	12.68678	ppb	# 76
75) 1,2,3-Trichloropropane	20.17	110	9227	11.57218	ppb	78
76) t-1,4-Dichloro-2-Butene	20.23	53	20628	12.81166	ppb	# 78
77) Bromobenzene	20.49	156	193805	9.90473	ppb	92
78) n-Propylbenzene	20.46	91	1397086	13.80582	ppb	98
79) 4-Ethyltoluene	20.65	105	653523	9.33219	ppb	98
80) 2-Chlorotoluene	20.75	91	606805	9.05395	ppb	100
81) 1,3,5-Trimethylbenzene	20.73	105	642904	9.33159	ppb	98
82) 4-Chlorotoluene	20.82	91	563219	9.75925	ppb	98
83) Tert-Butylbenzene	21.37	119	771335	10.34106	ppb	98
84) 1,2,4-Trimethylbenzene	21.43	105	651620	9.05592	ppb	97
85) Sec-Butylbenzene	21.77	105	1244018	13.90727	ppb	100
86) p-Isopropyltoluene	22.00	119	725182	9.46493	ppb	99
87) Benzyl Chloride	22.44	91	197410	19.40978	ppb	97
88) 1,3-DCB	22.14	146	387323	9.67943	ppb	96
89) 1,4-DCB	22.31	146	363787	9.79512	ppb	92
90) Hexachloroethane	23.56	117	533859	38.29226	ppb	# 12
91) n-Butylbenzene	22.71	91	769919	11.52107	ppb	98
92) 1,2-DCB	22.93	146	313462	9.84841	ppb	98
93) 1,2-Dibromo-3-chloropropan	24.14	155	12899	11.18801	ppb	82
94) 1,2,4-Trichlorobenzene	25.59	180	220157	9.54544	ppb	98
95) Hexachlorobutadiene	25.86	223	37896	9.04368	ppb	97

(#) = qualifier out of range (m) = manual integration
 1030C39W.D CALLW.M Fri Dec 02 11:35:29 2011

Data File : M:\CHICO\DATA\C111030\1030C39W.D Vial: 1
 Acq On : 31 Oct 11 16:08 Operator: STC
 Sample : AY49334W141516 MS-1WC (VOC) Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Dec 2 11:35 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:32:50 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) Naphthalene	25.94	128	595126	20.91304	ppb	100
97) 1,2,3-Trichlorobenzene	26.31	180	169004	9.68724	ppb	98

Quantitation Report

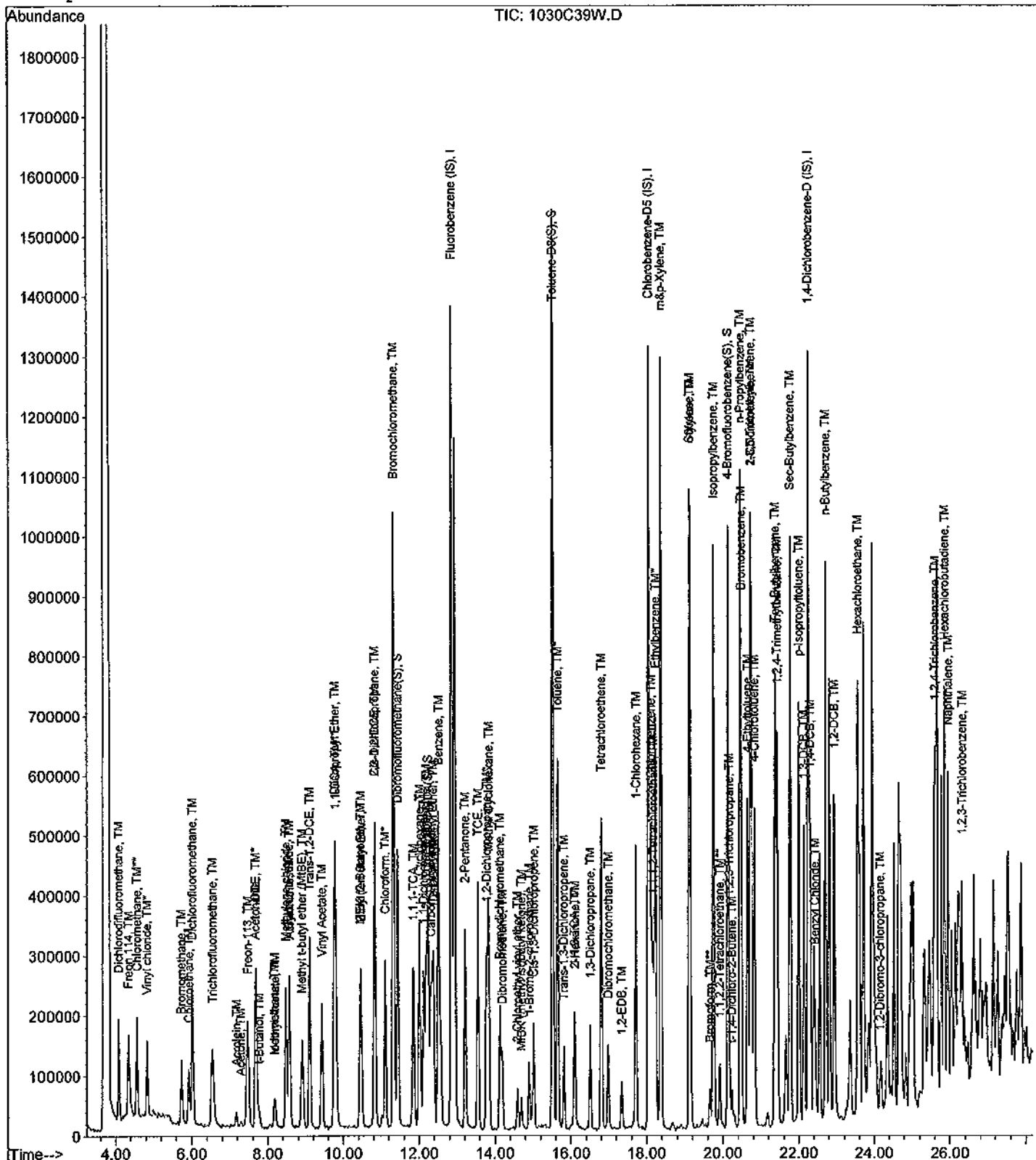
Data File : M:\CHICO\DATA\C111030\1030C39W.D
Acq On : 31 Oct 11 16:08
Sample : AY49334W141516 MS-1WC (VOC)
Misc : Water 10mL/ IS&S:10-30/10-26-11

Vial : 1
Operator : STC
Inst : Chico
Multiplr : 1.00

Quant Time: Dec 2 11:35 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Dec 02 11:32:50 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C40W.D Vial: 1
 Acq On : 31 Oct 11 16:45 Operator: STC
 Sample : AY49334W141516 MSD-1WC (VOC) Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Dec 2 11:35 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:32:50 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	12.85	96	673885	25.00000	ppb	0.02
55) Chlorobenzene-D5 (IS)	18.05	117	449984	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.26	152	240256	25.00000	ppb	0.02
System Monitoring Compounds						
33) Dibromofluoromethane (S)	11.43	111	449233	25.02504	ppb	0.00
Spiked Amount	25.097		Recovery	=	99.712%	
38) 1,2-DCA-D4 (S)	12.23	65	356030	22.27998	ppb	0.00
Spiked Amount	24.225		Recovery	=	91.970%	
56) Toluene-D8 (S)	15.51	98	1704225	26.91667	ppb	0.02
Spiked Amount	25.808		Recovery	=	104.296%	
64) 4-Bromofluorobenzene (S)	20.13	95	605686	26.69841	ppb	0.02
Spiked Amount	25.459		Recovery	=	104.865%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.08	85	220598	8.88503	ppb	94
3) Freon 114	4.34	85	150416	9.67318	ppb	95
4) Chloromethane	4.56	50	277770	9.02816	ppb	93
5) Vinyl chloride	4.82	62	201338	9.78330	ppb	96
7) Bromomethane	5.74	94	147121	9.84814	ppb	97
8) Chloroethane	5.93	64	157372	9.25766	ppb	99
9) Dichlorofluoromethane	6.01	67	450238	9.57936	ppb	98
10) Trichlorofluoromethane	6.54	101	257325	9.22585	ppb	95
11) Acetonitrile	7.66	41	109689	148.58438	ug/l	100
12) Acrolein	7.18	56	40703	120.48812	ppb	94
13) Acetone	7.29	43	26277	13.60978	ppb	# 76
14) Freon-113	7.48	101	164332	10.07108	ppb	98
15) 1,1-DCE	7.70	96	182764	9.49964	ppb	92
16) t-Butanol	7.78	59	14747	161.42360	ppb	98
17) Methyl Acetate	8.20	43	62200	10.74239	ppb	99
18) Iodomethane	8.18	142	105131	10.12939	ppb	89
19) Acrylonitrile	8.58	53	23406	11.11230	ppb	88
20) Methylene chloride	8.48	84	180541	9.83857	ppb	95
21) Carbon disulfide	8.58	76	183104	9.79517	ppb	100
22) Methyl t-butyl ether (MtBE)	8.92	73	297031	10.21448	ppb	94
23) Trans-1,2-DCE	9.11	96	211447	9.47397	ppb	98
24) Diisopropyl Ether	9.77	45	672476	10.46053	ppb	91
25) 1,1-DCA	9.80	63	378977	9.94033	ppb	97
26) Vinyl Acetate	9.44	43	132519	11.29670	ppb	98
27) Ethyl tert Butyl Ether	10.45	59	467350	10.64834	ppb	99
28) MEK (2-Butanone)	10.44	43	78228	10.22050	ppb	95
29) Cis-1,2-DCE	10.82	96	219402	9.56592	ppb	95
30) 2,2-Dichloropropane	10.82	77	284485	10.41678	ppb	99
31) Chloroform	11.10	83	353899	9.64906	ppb	100
32) Bromochloromethane	11.33	128	69588	10.89810	ppb	79
34) 1,1,1-TCA	11.85	97	317360	9.51469	ppb	95
35) Cyclohexane	12.01	56	307089	9.88838	ppb	94
36) 1,1-Dichloropropene	12.12	75	277564	9.71173	ppb	94
37) 2,2,4-Trimethylpentane	12.20	57	511508	10.53601	ppb	91
39) Carbon Tetrachloride	12.31	117	228003	9.92706	ppb	94
40) Tert Amyl Methyl Ether	12.36	73	345658	10.53283	ppb	97

(#) = qualifier out of range (m) = manual integration
 1030C40W.D CALLW.M Fri Dec 02 11:35:37 2011

Data File : M:\CHICO\DATA\C111030\1030C40W.D
 Acq On : 31 Oct 11 16:45
 Sample : AY49334W141516 MSD-1WC (VOC)
 Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:35 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:32:50 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
41) 1,2-DCA	12.39	62	178492	9.48087	ppb	94
42) Benzene	12.52	78	833883	10.15534	ppb	99
43) TCE	13.55	95	213329	9.38068	ppb	92
44) 2-Pentanone	13.21	43	670030	140.85032	ppb	94
45) 1,2-Dichloropropane	13.77	63	195266	10.46224	ppb	95
46) Bromodichloromethane	14.13	83	219583	10.29810	ppb	94
47) Methyl Cyclohexane	13.83	83	263113	9.90060	ppb	97
48) Dibromomethane	14.19	93	77194	10.34184	ppb	90
49) 2-Chloroethyl vinyl ether	14.59	63	43646	9.19868	ppb	# 93
50) 1-Bromo-2-chloroethane	14.89	63	166408	10.44937	ppb	90
51) Cis-1,3-Dichloropropene	15.02	75	211155	10.38513	ppb	96
52) Toluene	15.65	91	840102	10.37302	ppb	98
53) Trans-1,3-Dichloropropene	15.81	75	154386	10.54700	ppb	98
54) 1,1,2-TCA	16.09	83	83579	10.59385	ppb	# 88
57) 1,2-EDB	17.34	107	92512	10.80216	ppb	95
58) Tetrachloroethene	16.80	164	239347	10.34582	ppb	93
59) 1-Chlorohexane	17.72	91	280271	10.52032	ppb	94
60) 1,1,1,2-Tetrachloroethane	18.17	131	161501	11.15075	ppb	87
61) m&p-Xylene	18.37	106	683414	19.99636	ppb	98
62) o-Xylene	19.11	106	353111	10.74283	ppb	99
63) Styrene	19.13	104	527765	10.63776	ppb	99
65) 2-Hexanone	16.12	43	51343	12.46954	ppb	89
66) 1,3-Dichloropropane	16.51	76	177186	10.49183	ppb	100
67) Dibromochloromethane	16.98	129	125506	11.38395	ppb	93
68) Chlorobenzene	18.12	112	491969	10.06246	ppb	98
69) Ethylbenzene	18.23	91	936335	10.28458	ppb	100
70) Bromoform	19.64	173	56899	10.07037	ppb	90
72) MIBK (methyl isobutyl keto)	14.69	43	75276	11.02130	ppb	# 77
73) Isopropylbenzene	19.75	105	1237307	14.20931	ppb	99
74) 1,1,2,2-Tetrachloroethane	19.91	83	91721	12.58313	ppb	# 89
75) 1,2,3-Trichloropropane	20.17	110	9365	11.44279	ppb	# 75
76) t-1,4-Dichloro-2-Butene	20.23	53	22200	13.43173	ppb	93
77) Bromobenzene	20.49	156	206516	10.28163	ppb	100
78) n-Propylbenzene	20.46	91	1530297	14.73145	ppb	98
79) 4-Ethyltoluene	20.65	105	706238	9.82436	ppb	95
80) 2-Chlorotoluene	20.75	91	653382	9.49701	ppb	97
81) 1,3,5-Trimethylbenzene	20.73	105	702310	9.93046	ppb	99
82) 4-Chlorotoluene	20.82	91	605738	10.22479	ppb	99
83) Tert-Butylbenzene	21.38	119	820988	10.72234	ppb	97
84) 1,2,4-Trimethylbenzene	21.43	105	691895	9.36719	ppb	99
85) Sec-Butylbenzene	21.77	105	1352492	14.72924	ppb	98
86) p-Isopropyltoluene	22.00	119	794796	10.10548	ppb	99
87) Benzyl Chloride	22.44	91	198774	19.03890	ppb	98
88) 1,3-DCB	22.14	146	415514	10.11563	ppb	95
89) 1,4-DCB	22.30	146	389740	10.22276	ppb	98
90) Hexachloroethane	23.56	117	551389	38.51564	ppb	# 12
91) n-Butylbenzene	22.71	91	850928	12.40428	ppb	97
92) 1,2-DCB	22.93	146	334523	10.23853	ppb	97
93) 1,2-Dibromo-3-chloropropan	24.14	155	14637	12.23153	ppb	89
94) 1,2,4-Trichlorobenzene	25.59	180	240070	10.13986	ppb	96
95) Hexachlorobutadiene	25.85	223	42056	9.77711	ppb	96

(#) = qualifier out of range (m) = manual integration
 1030C40W.D CALLW.M Fri Dec 02 11:35:38 2011

Data File : M:\CHICO\DATA\C111030\1030C40W.D Vial: 1
 Acq On : 31 Oct 11 16:45 Operator: STC
 Sample : AY49334W141516 MSD-1WC (VOC) Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Dec 2 11:35 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:32:50 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) Naphthalene	25.94	128	619605	21.21064	ppb	99
97) 1,2,3-Trichlorobenzene	26.31	180	193601	10.81039	ppb	92

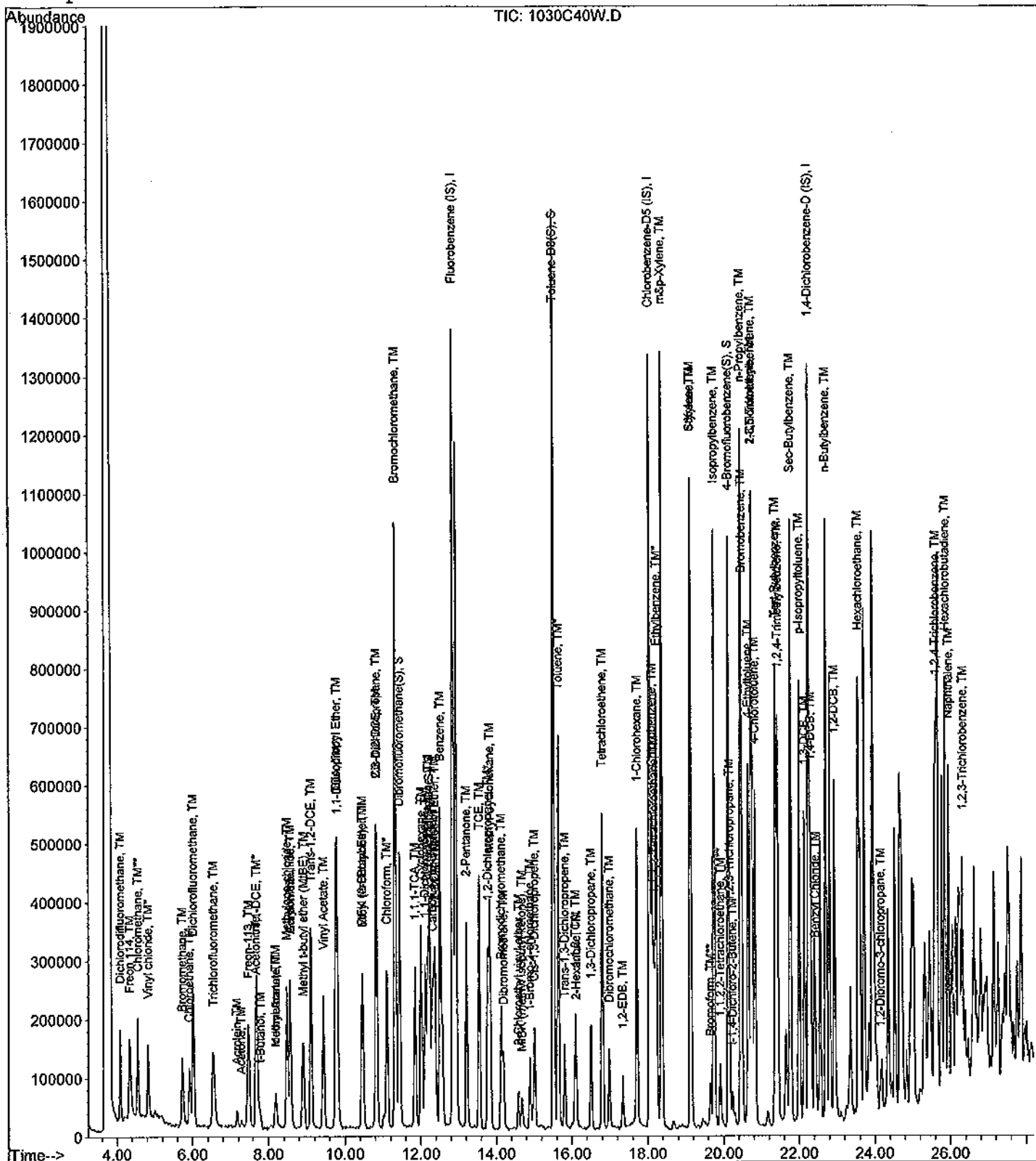
Data File : M:\CHICO\DATA\C111030\1030C40W.D
 Acq On : 31 Oct 11 16:45
 Sample : AY49334W141516 MSD-1WC (VOC)
 Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:35 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:32:50 2011
 Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C41W.D Vial: 1
 Acq On : 31 Oct 11 17:22 Operator: STC
 Sample : AY49334W161718 MS-1WC (GAS) Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 10 10:25 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1408321	25.00000	ppb	0.01
3) Chlorobenzene-D5 (IS)	18.05	TIC	1375208	25.00000	ppb	0.01
4) 1,4-Dichlorobenzene-D (IS)	22.25	TIC	1432024	25.00000	ppb	0.01

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	15.64	TIC	59067164m	373.93954	ppb	100

Quantitation Report

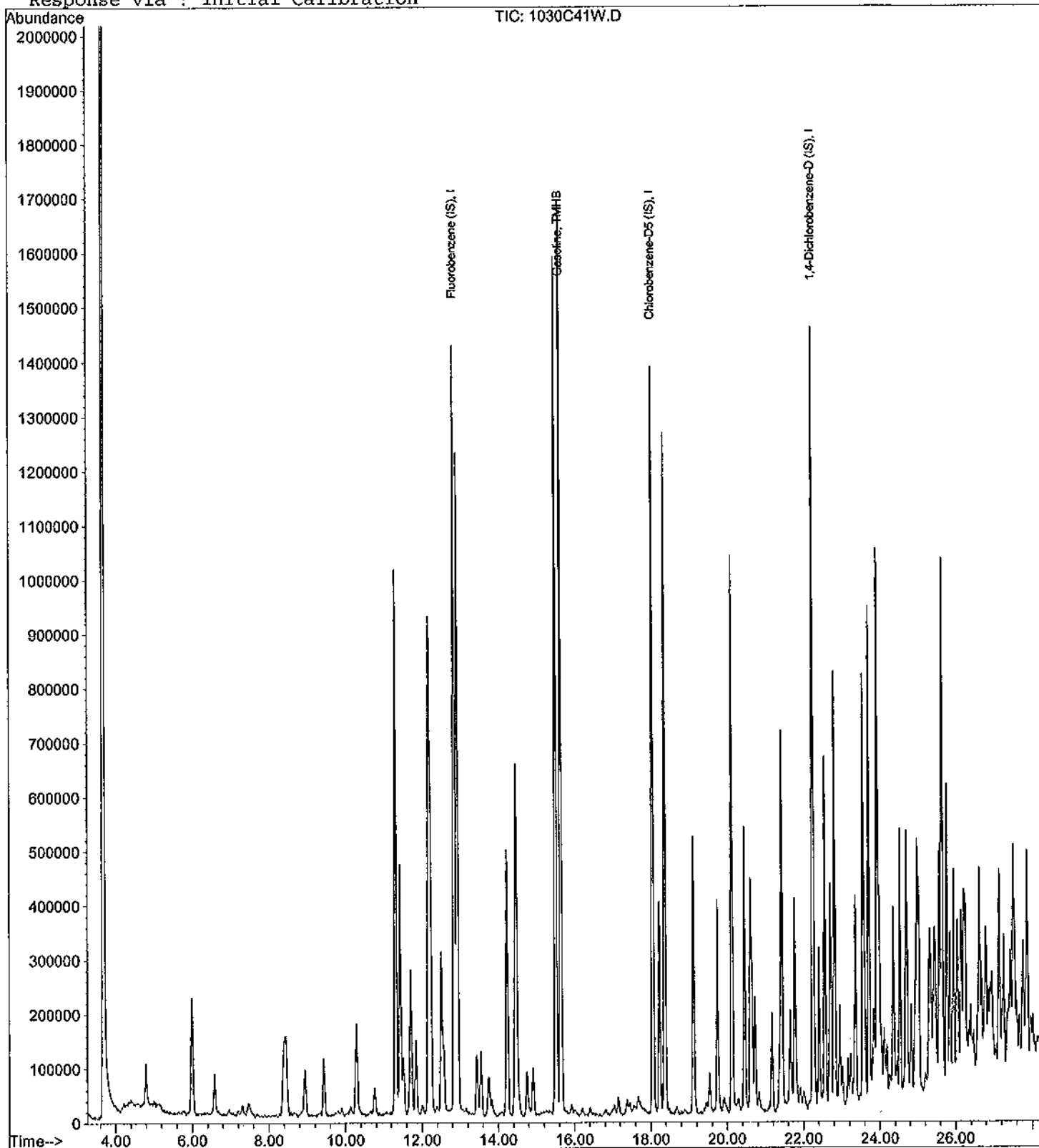
Data File : M:\CHICO\DATA\C111030\1030C41W.D
Acq On : 31 Oct 11 17:22
Sample : AY49334W161718 MS-1WC (GAS)
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 10 10:25 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C42W.D Vial: 1
 Acq On : 31 Oct 11 17:59 Operator: STC
 Sample : AY49334W161718 MSD-1WC (GAS) Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 3 10:23 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1418194	25.00000	ppb	0.01
3) Chlorobenzene-D5 (IS)	18.05	TIC	1424242	25.00000	ppb	0.01
4) 1,4-Dichlorobenzene-D (IS)	22.26	TIC	1438638	25.00000	ppb	0.01

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	15.64	TIC	59788348m	376.70985	ppb	100

Quantitation Report

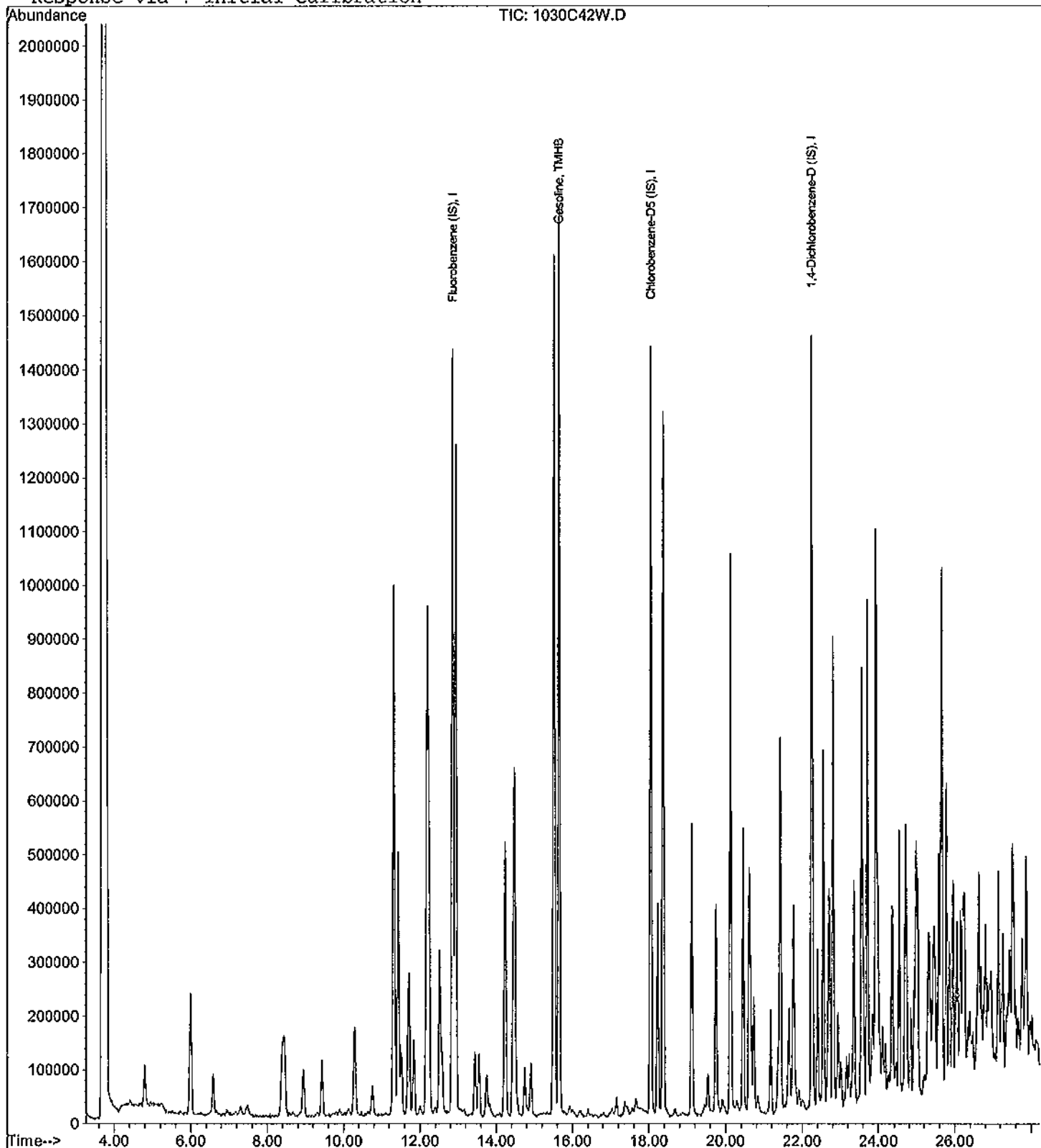
Data File : M:\CHICO\DATA\C111030\1030C42W.D
Acq On : 31 Oct 11 17:59
Sample : AY49334W161718 MSD-1WC (GAS)
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 10:23 2011

Quant Results File: CGAS.RES

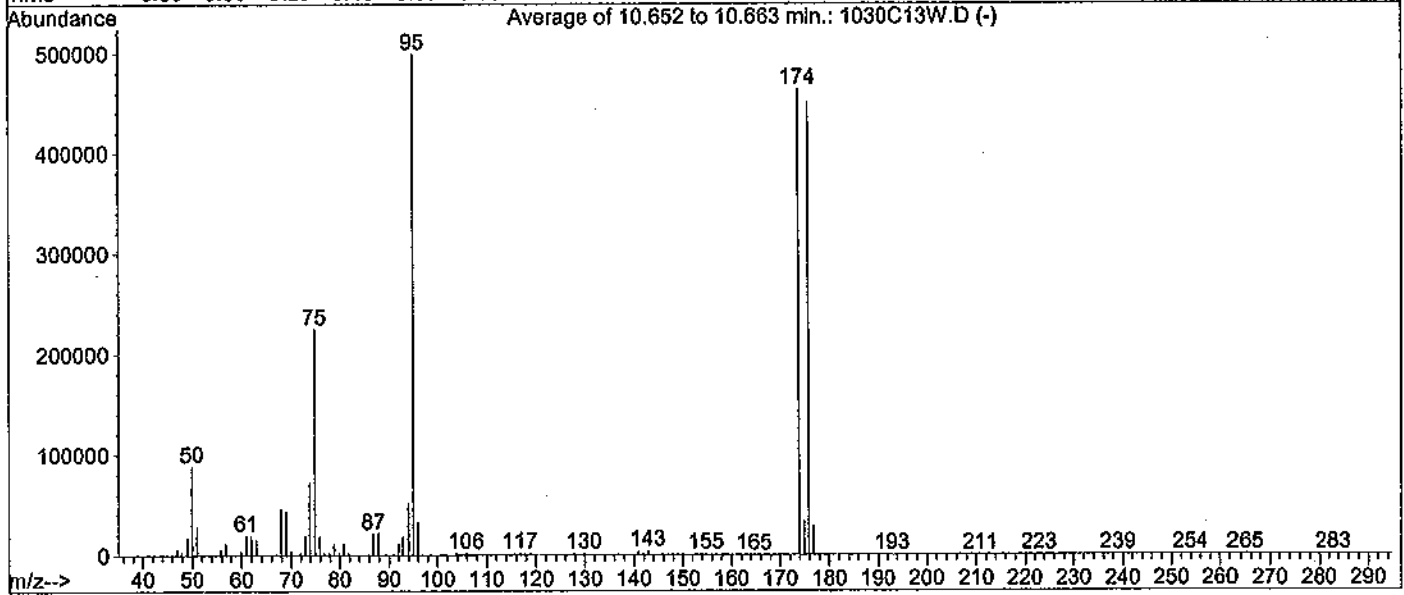
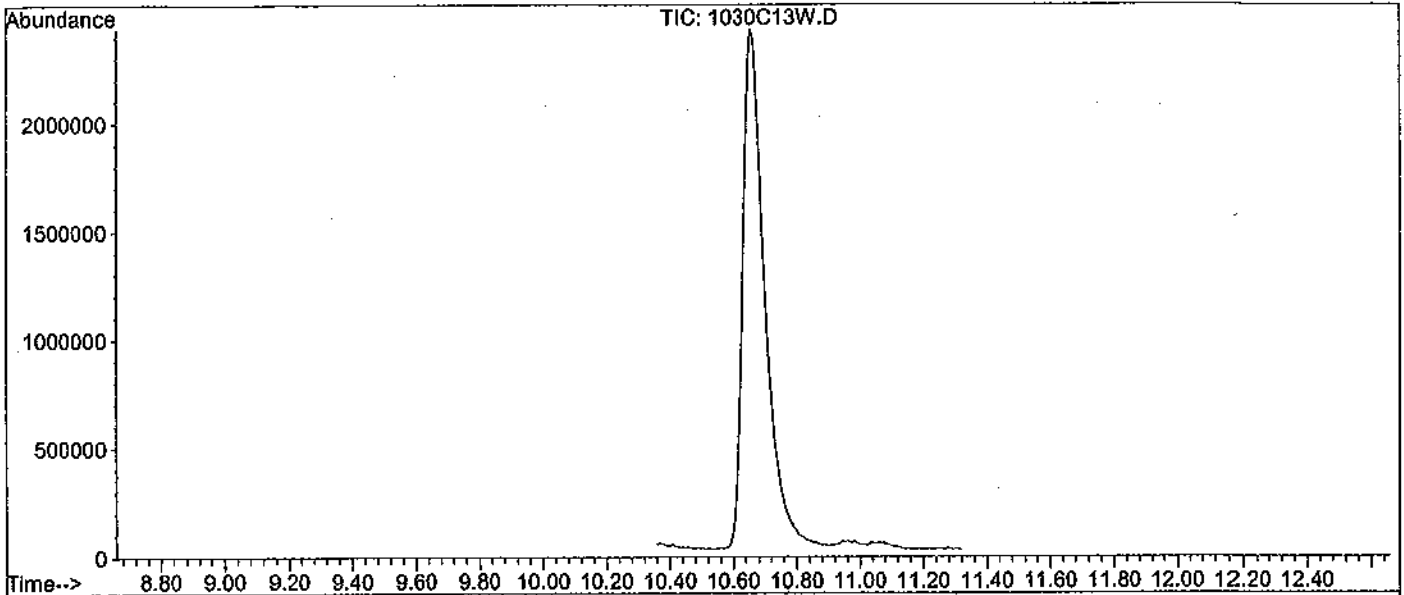
Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C13W.D
 Acq On : 30 Oct 11 22:01
 Sample : 20ug/ml BFB Std 10-19-11
 Misc : Water 2uL

Vial: 1
 Operator: RS
 Inst : Chico
 Multiplr: 1.00

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260



AutoFind: Scans 52, 53, 54; Background Corrected with Scan 36

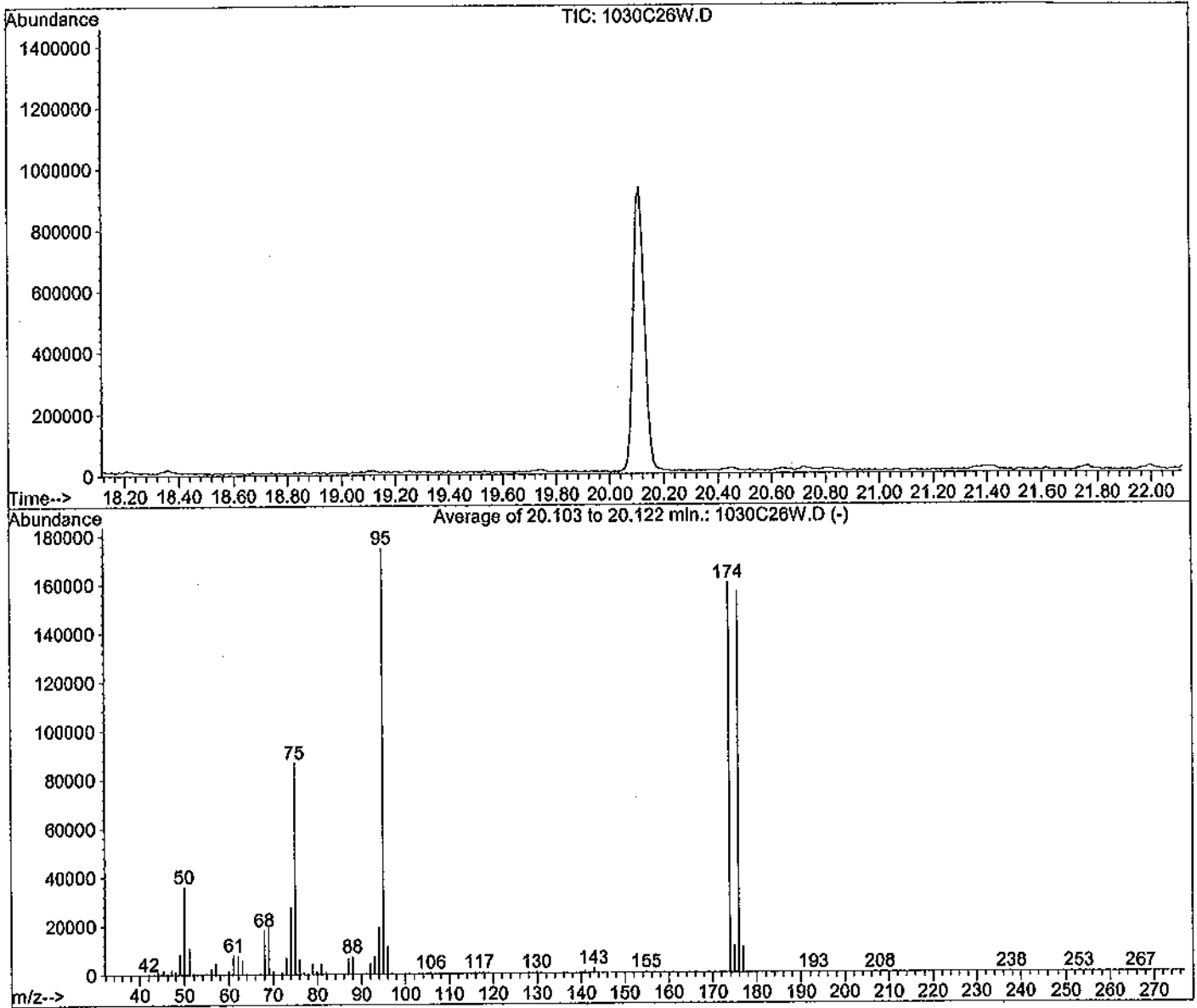
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.7	88217	PASS
75	95	30	60	45.1	224883	PASS
95	95	100	100	100.0	499051	PASS
96	95	5	9	6.5	32634	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	92.8	463189	PASS
175	174	5	9	7.2	33219	PASS
176	174	95	101	97.1	449771	PASS
177	176	5	9	6.4	28567	PASS

BFB

Data File : M:\CHICO\DATA\C111030\1030C26W.D
Acq On : 31 Oct 11 7:21
Sample : 20ug/mL BFB STD 10-19-11
Misc : Water 2ul

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260



Spectrum Information: Average of 20.103 to 20.122 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.6	35941	PASS
75	95	30	60	49.7	86725	PASS
95	95	100	100	100.0	174635	PASS
96	95	5	9	6.6	11458	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	91.6	159913	PASS
175	174	5	9	6.9	11031	PASS
176	174	95	101	97.7	156203	PASS
177	176	5	9	6.7	10398	PASS

Volatile Standard Curve Preparation for 5mL Purge (8250 soln)-THOR

Expiration Date:		08/15/11									
Date	Conc.	50µg/mL Vol Std #9	50µg/mL Surrogate	50µg/mL Vol Std #7	50µg/mL Vol Std #8	50µg/mL Surrogate	50µg/mL Vol Std #10	50µg/mL Vol Std #11	50µg/mL Vol Std #2	50µg/mL Vol Std #12	
Code	µg/L	Exp:08-17-11	Exp:08-17-11	Exp:08-17-11	Exp:08-17-11	Exp:08-17-11	Exp:08-17-11	Exp:08-17-11	Exp:08-17-11	Exp:08-17-11	
08-15-11A	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a	
08-15-11B	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a	
08-15-11C	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a	
08-15-11D	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a	
08-15-11E	50	n/a	n/a	5	5	5	n/a	5	n/a	5	
08-15-11F	100	n/a	n/a	10	10	10	n/a	10	n/a	10	
08-15-11G	200	n/a	n/a	20	20	20	n/a	20	n/a	20	

250µg/mL TBA	Final Vol
08-10-11W	w/P&T H2O
Exp:08-17-11	ml
1	5
2	5
3	5
4	5
5	5
6	5
7	5

Volatile Standard Curve Preparation for 5mL Purge (8280 soln)-THOR

Expiration Date:		08/17/11									
Date	Conc.	50µg/mL Vol Std #9	50µg/mL Surrogate	50µg/mL Vol Std #7	50µg/mL Vol Std #8	50µg/mL Surrogate	50µg/mL Vol Std #10	50µg/mL Vol Std #11	50µg/mL Vol Std #2	50µg/mL Vol Std #12	
Code	µg/L	Exp:08-17-11	Exp:08-17-11	Exp:08-17-11	Exp:08-17-11	Exp:08-17-11	Exp:08-17-11	Exp:08-17-11	Exp:08-17-11	Exp:08-17-11	
08-16-11A	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a	
08-16-11B	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a	
08-16-11C	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a	
08-16-11D	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a	
08-16-11E	50	n/a	n/a	5	5	5	n/a	5	n/a	5	
08-16-11F	100	n/a	n/a	10	10	10	n/a	10	n/a	10	
08-16-11G	200	n/a	n/a	20	20	20	n/a	20	n/a	20	

250µg/mL TBA	Final Vol
08-10-11W	w/P&T H2O
Exp:08-17-11	ml
1	5
2	5
3	5
4	5
5	5
6	5
7	5

Method 8260 Gases, 2,000 mg/L, 3 X 0.6 ml

120016-03
Lot# Storage Expiry
170002 5-19 Degree C 3/11/14
Soln: P/T Methanol

Method 8260 Gases
Lot #: 170302 - 28666
Rec: 4/20/11 MFR exp. 03/11/14

Method 8260B Surrogate
Sektillon, 2,000 mg/L, 1 ml

120002-01
Lot# Storage Expiry
164585 10 Degree C 10/12/13
Soln: P/T Methanol

Method 8260B Surrogate
Lot #: 164585 - 28720
Rec: 4/20/11 MFR exp. 10/12/13

VOC Mix 4-3, 2,000 mg/L, 1 ml

110166-01
Lot# Storage Expiry
171714 5-6 Degree C 4/11/13
Soln: P/T Methanol

VOC Mix 4-3, 2000mg/L
Lot #: 171714 - 29243
Rec: 8/5/11 MFR exp. 04/11/13

RS-11
RS

8/16/11
RS

8/17/11
RS

8/19/11
RS

8/10/11
RS

RS

RS

RS

030

GC/MS STANDARD PREPARATION BOOK # 98 PAGE #

08-17-11V		Exp: 08/24/11					
50ug/ml Vol Work Std #9		Lot		APPL Code		APPL Exp Date	
SOURCE		08-17-11R		09/02/11		200	
50ug/ml Vol Work Std #2		08-17-11T		09/02/11		200	
J&T Brand		08/12/12		06/08/12		1600	
08-17-11W		Exp: 08/24/11					
50ug/ml Vol Work Std #10		Lot		APPL Code		APPL Exp Date	
SOURCE		08-17-11S		09/02/11		200	
50ug/ml Vol Work Std #1		08/12/12		06/08/12		1800	
J&T Brand							
08-17-11X		Exp: 08/24/11					
50ug/ml Vol Work Std #12		Lot		APPL Code		APPL Exp Date	
SOURCE		08-17-11U		09/02/11		200	
50ug/ml Vol Work Std #2		08/12/12		06/08/12		1800	
J&T Brand							
08-17-11Y		Exp: 08/24/11					
50ug/ml 8260 Surrogate		Conc.		Date		Exp.	
Exp: 08/24/11		ug/ml		Lot #		Code	
02SI		120002-01		8260B Surr Solution		164585-28720	
J&T Brand		Purge & Trap MeOH		K07834-00543		08-17-11B	
						09/14/11	
						10/14/11	
						3900	
08-17-11Z		Exp: 08/24/11					
5.0ug/ml 8260 Surrogate		Lot		APPL Code		APPL Exp Date	
J&T Brand		08-17-11V		09/02/11		200	
						1600	
08-17-11AA		Exp: 08/24/11					
250ug/ml TBA/TBA/Acetone/Hexane/Cyclohexanone/Acroleln/2-P		Conc.		Date		Exp.	
Exp: 08/24/11		ug/ml		Lot #		Code	
Supplier		ID #		Code		Date	
02SI		120166-01		Volatile Mix 4-1		08-17-11C	
02SI		020229-09		Acroleln		12/17/11	
J&T Brand		Purge & Trap MeOH		K07834-00543		08-04-11J	
						08/22/11	
						10/14/11	
						3400	

8-17-11
RS

8-17-11
RS

8-17-11
RS

8-17-11
RS

8-17-11
RS

8-17-11
RS

8-18-11
RS

CHICO							
08-17-11AB		250ug/ml 8260 Internal Standard - Chico		Conc.		Date	
Supplier		ID #		ug/ml		Lot #	
02SI		120302-03		Internal Standard Mix		166255-27947	
02SI		020132-02		Fluorobenzene Standard		08-09-11A	
J&T Baker		Purge & Trap MeOH		K07834-00543		10/23/11	
						11/14/12	
						3900	
08-17-11AC		250ug/ml 8260 Surrogate - Chico		Conc.		Date	
Supplier		ID #		ug/ml		Lot #	
02SI		120002-01		Surrogate Standard		164585-28727	
J&T Baker		Purge & Trap MeOH		K07834-00543		08-09-11C	
						10/23/11	
						11/14/12	
						3900	

08-17-11AD		50ug/ml 8260B Surrogate- Nao		Conc.		Date	
Supplier		ID #		ug/ml		Lot #	
02SI		8260B Surr		Surrogate Standards		164585-28720	
J.T Baker		Purge & Trap MeOH		K07834-00543		08-17-11B	
						12/13/11	
						10/10/12	
						3400	

Volatiles Standard Curve Preparation for 10mL Purge (8260 water)-THOR

Expiration Date		09/22/11									
Date	Conc.	50µg/mL Vol Std #9	50µg/mL Vol Std #7	50µg/mL Vol Std #7	50µg/mL Vol Std #9	50µg/mL Vol Std #7	50µg/mL Vol Std #9	50µg/mL Vol Std #7	50µg/mL Vol Std #9	50µg/mL Vol Std #7	50µg/mL Vol Std #9
Code	µg/L	Exp: 09-26-11	Exp: 09-26-11	Exp: 09-26-11	Exp: 09-26-11	Exp: 09-26-11	Exp: 09-26-11	Exp: 09-26-11	Exp: 09-26-11	Exp: 09-26-11	Exp: 09-26-11
09-21-11B	0.3	3	6	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
09-21-11C	0.6	5	10	n/a	n/a	n/a	n/a	n/a	n/a	n/a	3
09-21-11D	1	10	20	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5
09-21-11E	2	20	40	n/a	n/a	n/a	n/a	n/a	n/a	n/a	10
09-21-11F	5	n/a	n/a	5	10	n/a	n/a	n/a	n/a	n/a	20
09-21-11G	10	n/a	n/a	10	20	n/a	n/a	n/a	n/a	n/a	n/a
09-21-11H	20	n/a	n/a	20	40	n/a	n/a	n/a	n/a	n/a	n/a
09-21-11I	40	n/a	n/a	40	80	n/a	n/a	n/a	n/a	n/a	n/a
09-21-11J	100	n/a	n/a	100	100	n/a	n/a	n/a	n/a	n/a	n/a

Volatiles Standard Curve Preparation for 10mL Purge (824 water)-NEO

Expiration Date		09/22/11			250µg/mL TAPD		Final Vol	
Date	Conc.	50µg/mL Vol Std #9	50µg/mL Vol Std #7	50µg/mL Vol Std #9	09-19-11F	09-19-11F	w/P&T H2O	
Code	µg/L	Exp: 09-26-11	Exp: 09-26-11	Exp: 09-26-11	Exp: 09-26-11	Exp: 09-26-11	ml	
09-21-11K	0.2	2	n/a	n/a	2	5	50	
09-21-11L	0.5	5	n/a	n/a	5	10	50	
09-21-11M	1	10	n/a	n/a	10	15	50	
09-21-11N	2	20	n/a	n/a	20	25	50	
09-21-11O	5	n/a	5	10	40	35	50	
09-21-11P	10	n/a	10	20	40	35	50	
09-21-11Q	40	n/a	40	100	40	40	50	
09-21-11R	100	n/a	100	100	40	40	50	

250µg/mL TAPD	Final Vol
Exp: 09-26-11	w/P&T H2O
3	50
5	50
10	50
15	50
20	50
25	50
30	50
35	50
40	50



AY44799401

26

65441
AY44799 W01
VOA_Frig

VOLATILES 38083 - 062910

Part #: 38083 Laboratory Use Only - See MSDS
 Lot #: 062910 Exp: 062913 Storage 0 °C
 CWA Volatiles in Non-Potable Water
 Varied in methanol 2 mL
 ABSOLUTE STANDARDS, INC. • 800-368-1131

Sweetpea

Supplier	ID #	Internal Standard Mix	Conc.	Lot #	Date	Exp.	µL
02SI	120302-03	Internal Standard Mix	2000	166255-28349	09-14-11A	10/10/11	500
	020132-02	Fluorobenzene Standard	2000	169170-28739	09-14-11B	10/10/11	500
J.T.Baker		Purge & Trap MeOH		K07E34-00547	09/12/11	10/14/12	3000

Method 8260 Internal
 Standard Solution, 2000
 µg/L, 1 ml
 120302-03

Lot# Storage Expiry
 166255 5 ± 10 Degrees C 11/3/12

Sol: PT Methanol
 Method 8280 Internal Standard

Lot #: 166255 - 28350
 Rec: 2/17/11 MFR exp. 11/18/12

Fluorobenzene Solution,
 2,000 mg/L, 1 ml

Lot# Storage Expiry
 169170 5 ± 10 Degrees C 2/13/14

Sol: 77% Methanol

Fluorobenzene

Lot #: 169170 - 28738
 Rec: 4/20/11 MFR exp. 02/13/14

CHICO						
09-23-11D						
250ug/ml 8260 Internal Standard - Chico				Conc.	Date	
Supplier	ID #			ug/ml	Lot #	Code
02SI	120302-03	Internal Standard Mix		2000	166255-28350	09-23-11B
02SI	020132-02	Fluorobenzene Standard		2000	169170-28738	09-23-11C
J&T Baker		Purge & Trap MeOH			K07E34-00547	09/12/11

9-23-11
RS.

9-24-11
RS.

Volatile Standard Curve Preparation for 10ml. Purge (8260 water)-SWEETPEA										
Expiration Date:		09/24/11								
Date	Conc.	50ug/ml Vol Std #9	50ug/ml Surr	50ug/ml Vol Std #7	50ug/ml Vol Std #8	50ug/ml Surr	50ug/ml Vol Std #9	50ug/ml Surr	50ug/ml Vol Std #10	50ug/ml Surr
Code	ug/L	Exp:09-28-11	Exp:09-26-11	Exp:09-25-11	Exp:09-26-11	Exp:09-26-11	Exp:09-26-11	Exp:09-26-11	Exp:09-26-11	Exp:09-26-11
09-23-11E	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	n/a
09-23-11F	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	n/a
09-23-11G	1	10	20	n/a	n/a	n/a	10	n/a	n/a	n/a
09-23-11H	2	20	40	n/a	n/a	n/a	20	n/a	n/a	n/a
09-23-11I	5	n/a	n/a	5	6	10	n/a	5	n/a	n/a
09-23-11J	10	n/a	n/a	10	10	25	n/a	10	n/a	n/a
09-23-11K	20	n/a	n/a	20	20	40	n/a	20	n/a	n/a
09-23-11L	40	n/a	n/a	40	40	80	n/a	40	n/a	n/a
09-23-11M	100	n/a	n/a	100	100	n/a	n/a	100	n/a	n/a

9-23-11
RS.

9-24-11
RS.

Volatile Standard Curve Preparation for 10ml. Purge (8260 water)-CHICO										
Expiration Date:		09/24/11								
Date	Conc.	50ug/ml Vol Std #9	50ug/ml Surr	50ug/ml Vol Std #7	50ug/ml Vol Std #8	50ug/ml Surr	50ug/ml Vol Std #9	50ug/ml Surr	50ug/ml Vol Std #10	50ug/ml Surr
Code	ug/L	Exp:09-28-11	Exp:09-26-11	Exp:09-25-11	Exp:09-26-11	Exp:09-26-11	Exp:09-26-11	Exp:09-26-11	Exp:09-26-11	Exp:09-26-11
09-23-11N	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	n/a
09-23-11O	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	n/a
09-23-11P	1	10	20	n/a	n/a	n/a	10	n/a	n/a	n/a
09-23-11Q	2	20	40	n/a	n/a	n/a	20	n/a	n/a	n/a
09-23-11R	5	n/a	n/a	5	5	10	n/a	5	n/a	n/a
09-23-11S	10	n/a	n/a	10	10	25	n/a	10	n/a	n/a
09-23-11T	20	n/a	n/a	20	20	40	n/a	20	n/a	n/a
09-23-11U	40	n/a	n/a	40	40	80	n/a	40	n/a	n/a
09-23-11V	100	n/a	n/a	100	100	n/a	n/a	100	n/a	n/a

9-23-11
RS.

9-24-11
RS.

Method 8260 Gases, 2,000
mg/L, 3 X 0.6 ml

120016-03

Lot # Storage Expiry
170302 5-18 Degree C 3/11/14

Solvt P/T Method

Method 8260 Gases

Lot #: 170302 - 28677

Rec: 4/20/11 MFR exp. 03/11/14

9-24-11
RS.

RS.

n-Hexane Solution, 1,000
mg/L, 1 ml

020610-02

Lot # Storage Expiry
163378 5-18 Degree 8/29/15

Solvt P/T Method

n-Hexane Solution

Lot #: 163378 - 29230

Rec: 8/5/11 MFR exp. 08/29/15

9-24-11
RS.

RS.

Volatile Standard Curve Preparation for 10mL Purge (8260 water)-CHICO

Date	Code	Exp. 10-05-11		Exp. 10-05-11		Exp. 10-05-11		Exp. 10-05-11		Exp. 10-05-11		Exp. 10-05-11	
		500µg/mL Vol Std #9	500µg/mL Swr	500µg/mL Vol Std #7	500µg/mL Swr	500µg/mL Vol Std #5	500µg/mL Swr	500µg/mL Vol Std #3	500µg/mL Swr	500µg/mL Vol Std #1	500µg/mL Swr	500µg/mL Vol Std #2	500µg/mL Swr
09-29-11H	0.5	3	5	3	5	3	5	3	5	3	5	3	5
09-29-11I	1	10	20	10	20	10	20	10	20	10	20	10	20
09-29-11J	2	20	40	20	40	20	40	20	40	20	40	20	40
09-29-11K	5	n/a	n/a	5	10	5	10	5	10	5	10	5	10
09-29-11L	10	n/a	n/a	10	20	10	20	10	20	10	20	10	20
09-29-11M	20	n/a	n/a	20	40	20	40	20	40	20	40	20	40
09-29-11N	40	n/a	n/a	40	80	40	80	40	80	40	80	40	80
09-29-11V	100	n/a	n/a	100	100	100	100	100	100	100	100	100	100

9-29-11
RS.

10-02-11
RS

4-Bromofluorobenzene
Solution, 2500 mg/L, 1 ml
Lot # 176675-29375
Exp. 8/9/11 MFR exp. 08/02/14

9-30-11 A-
RS.

RS.

EXP: 10-30-11	Q251	020135-03	4-Bromofluorobenzene	2500	176675-29375	10-01-11A	12/10/11	10/01/11	09/29/11
J&T Baker			Purge & Trap MeOH		K14806-00551				

9-30-11
RS.

10-02-11
RS

Volatile Standard Curve Preparation for 10mL Purge (524 water)-REO

Date	Code	Exp. 10-05-11		Exp. 10-05-11		Exp. 10-05-11		Final Vol w/P&T H2O
		500µg/mL Vol Std #9	500µg/mL Swr	500µg/mL Vol Std #7	500µg/mL Swr	500µg/mL Vol Std #5	500µg/mL Swr	
10-01-11A	0.2	2	5	2	5	2	5	50
10-01-11B	0.5	5	10	5	10	5	10	50
10-01-11C	1	10	20	10	20	10	20	50
10-01-11D	2	20	40	20	40	20	40	50
10-01-11E	5	n/a	n/a	5	10	5	10	50
10-01-11F	10	n/a	n/a	10	20	10	20	50
10-01-11G	40	n/a	n/a	40	80	40	80	50
10-01-11H	100	n/a	n/a	100	100	100	100	50

10-01-11
RS.

RS.

10-02-11
RS

10-02-11
RS

Volatile Standard Curve Preparation for 10mL Purge (8260 water)-MAX

Expiration Date:		10/28/2011									
Date	Conc.	50µg/mL Vol Std #3	50µg/mL Surr	50µg/mL Vol Std #7	50µg/mL Vol Std #8	50µg/mL Surr	50µg/mL Vol Std #10	50µg/mL Vol Std #11	50µg/mL Vol Std #2	50µg/mL Vol Std #12	
10-27-11J	0.3	3	10	10	10	10	10	10	10	10	
10-27-11K	0.5	5	10	10	10	10	10	10	10	10	
10-27-11L	1	10	20	20	20	20	20	20	20	20	
10-27-11M	2	20	40	40	40	40	40	40	40	40	
10-27-11N	5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
10-27-11O	10	n/a	n/a	10	10	10	10	10	10	10	
10-27-11P	20	n/a	n/a	20	20	20	20	20	20	20	
10-27-11Q	40	n/a	n/a	40	40	40	40	40	40	40	
10-27-11R	100	n/a	n/a	100	100	100	n/a	n/a	100	100	

10-27-11
RS

250µg/mL TAPD	Final Vol / wP&T H2O
10-28-11O	ml
Exp:11-01-11	
3	50
5	50
10	50
20	50
25	50
30	50
35	50
40	50

Volatile Standard Curve Preparation for 5mL Purge (8260 soil)-NEO

Expiration Date:		10/28/2011									
Date	Conc.	50µg/mL Vol Std #3	50µg/mL Surr	50µg/mL Vol Std #7	50µg/mL Vol Std #8	50µg/mL Surr	50µg/mL Vol Std #10	50µg/mL Vol Std #11	50µg/mL Vol Std #2	50µg/mL Vol Std #12	
10-27-11S	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a	
10-27-11T	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a	
10-27-11U	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a	
10-27-11V	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a	
10-27-11W	50	n/a	n/a	5	5	5	n/a	5	n/a	5	
10-27-11X	100	n/a	n/a	10	10	10	n/a	10	n/a	10	
10-27-11Y	200	n/a	n/a	20	20	20	n/a	20	n/a	20	

10-27-11
RS

250µg/mL TBA	Final Vol / wP&T H2O
10-28-11O	ml
Exp:11-01-11	
2	5
3	5
4	5
5	5
6	5
7	5

Volatile Standard Curve Preparation for 5mL Purge (8260 soil)-THOR

Expiration Date:		10/28/2011									
Date	Conc.	50µg/mL Vol Std #3	50µg/mL Surr	50µg/mL Vol Std #7	50µg/mL Vol Std #8	50µg/mL Surr	50µg/mL Vol Std #10	50µg/mL Vol Std #11	50µg/mL Vol Std #2	50µg/mL Vol Std #12	
10-27-11Z	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a	
10-27-11AA	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a	
10-27-11AB	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a	
10-27-11AC	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a	
10-27-11AD	50	n/a	n/a	5	5	5	n/a	5	n/a	5	
10-27-11AE	100	n/a	n/a	10	10	10	n/a	10	n/a	10	
10-27-11AF	200	n/a	n/a	20	20	20	n/a	20	n/a	20	

10/27/11
RS

250µg/mL TBA	Final Vol / wP&T H2O
10-28-11O	ml
Exp:11-01-11	
1	5
2	5
3	5
4	5
5	5
6	5
7	5

Method 8260 Gases, 2,000
µg/L, 2 X 0.6 ml

120016-03

Lot# Storage Expiry
169238 5-10 Degrees C 2/9/14

Sol: P/T Methanol

Method 8260 Gases

Lot #: 169238 - 26582

Rec: 4/20/11 MFR exp. 02/19/14

10-28-11 A-
RS

RS

10-28-11 B-
RS

HexachloroEtane Solution,
1000 mg/L, 1 ml
010049-02
Lot # Storage Expiry
161816 5-10 Degree C 10/4/12
Soln: p/T Methanol
Hexachloroethane
Lot #: 164816 - 28687
Rec: 4/20/11 MFR exp. 10/14/12

PK

10-28-11 B-
RS

10-28-11 C-
RS

Benzyl Chloride Solution, 1000
mg/L, 1 ml
020728-02
Lot # Storage Expiry
163373 5-18 Degree C 8/29/12
Soln: E/T Methanol
Benzyl Chloride
Lot #: 163373 - 29166
Rec: 8/5/11 MFR exp. 08/29/12

PK

10-28-11 C-
RS

10-28-11 D-
RS

Volatile Mix, 20-29, 2,000
mg/L, 1 ml
122039-02
Lot # Storage Expiry
163374 5-18 Degree C 8/29/12
Soln: E/T Methanol
Volatile Mix, 20-29
Lot #: 163374 - 28300
Rec: 2/17/11 MFR exp. 08/29/12

PK

10-28-11 D-
RS

10-28-11 E-
RS

Method 8260 VOC Liquids, 54
Compounds, 2,000 mg/L, 1 ml
120023-03
Lot # Storage Expiry
164454 5-10 Degree C 10/4/12
Soln: p/T Methanol
8260 VOC Liquids, 54 Comp.
Lot #: 164454 - 27872
Rec: 12/15/10 MFR exp. 10/04/12

PK

10-28-11 E-
RS

10-28-11 F-
RS

Vinyl Acetate Solution,
2,000 mg/L, 1 ml
018832-01
Lot # Storage Expiry
178902 5-10 Degree C 12/15/11
Soln: p/T Methanol
Vinyl Acetate
Lot #: 178902 - 29562
Rec: 9/22/11 MFR exp. 12/15/11

PK

10-28-11 B-
RS.

Heptane Solution, 1000
mg/L, 1 ml
120546-82
Lot # Storage Expiry
169174 5-10 Degree C 2/18/14
Soln: P/T Methanol
Heptane Solution
Lot #: 169174 - 29248
Rec: 8/5/11 MFR exp. 02/18/14

RS

10-28-11 H-
RS.

8260B Surrogate Solution,
2,000 mg/L, 5 x 1 ml
110002-01-8PAK
Lot # Storage Expiry
173249 5-10 Degree C 5/17/13
Soln: P/T Methanol
8260B Surrogate Solution
Lot #: 173249 - 28847
Rec: 5/25/11 MFR exp. 05/17/13

RS

10-28-11 I-
RS.

VOC Mix 4-3, 2,000 mg/L, 1
ml
128166-01
Lot # Storage Expiry
178651 5-10 Degree C 9/11/13
Soln: P/T Methanol
VOC Mix 4-3, 2000mg/L
Lot #: 178651 - 28510
Rec: 9/20/11 MFR exp. 09/11/13

RS

10-28-11 J-
RS.

Method 8260 Gases (Second
Source), 2,000 mg/L, 2 X 0.6
ml
120016-03-SS
Lot # Storage Expiry
169038 5-10 Degree C 1/21/14
Soln: P/T Methanol
8260 Gases (SS)
Lot #: 169038 - 28743
Rec: 4/20/11 MFR exp. 01/21/14

RS

10-28-11K							
50ug/ml Vol Work Std #7							
Exp: 11/04/11							
Supplier	ID #	ID	Conc. ug/ml	Lot #	Date Code	EXP. Date	ul
Q2SI	120016-03	Gas Mix	2000	159238-28682	10-28-11A	11/30/2011	100
Q2SI	020049-02	HEXACHLOROETHANE	1000	164815-28687	10-28-11B	12/14/2011	200
Q2SI	020228-02	Benzyl Chloride	1000	163373-29166	10-28-11C	12/14/2011	200
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	3500
10-28-11L							
50ug/ml Vol Work Std #1							
Exp: 11/04/11							
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
Q2SI	020145-02-02	2-CBVE	2000	160092-26537	10-06-11B	12/1/2011	50
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	3500
10-28-11M							
50ug/ml Vol Work Std #8							
Exp: 11/04/11							
Supplier	ID #	ID	Conc. ug/ml	Lot #	Date Code	EXP. Date	ul
Q2SI	122039-02	Volatile Mix, 20-29	2000	163374-28100	10-28-11D	2/14/2012	100
Q2SI	120023-03	VOC'S-54 COMP	2000	164456-27872	10-28-11E	2/14/2012	100
Q2SI	020232-02	Vinyl Acetate	2000	178982-29552	10-28-11F	11/15/2011	100
Q2SI	020620-02	n-Hexane	1000	163378-27889	10-28-11G	11/14/2011	200
Q2SI	020546-02	Heptane	1000	169174-29248	10-28-11G	11/14/2011	200
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	3500
10-28-11N							
50ug/ml Vol Work Std #2							
Exp: 11/04/11							
Supplier	ID #	ID	ug/ml	Lot #	Date Code	EXP. Date	ul
Q2SI	121020-05	HSL'S-Ketone Solution	2000	169173-28307	10-12-11B	11/14/2011	100
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	10/14/2012	3500
10-28-11O							
Exp: 11/4/2011							
5ug/ml Vol Work Std #9							
SOURCES							
			Lot	APPL Code	APPL Exp Date		ul
				10-28-11K	10/31/2011		200
				10-28-11M	10/31/2011		200
				10/6/2011	6/8/2012		1600
10-28-11P							
Exp: 11/4/2011							
5ug/ml Vol Work Std #10							
SOURCES							
			Lot	APPL Code	APPL Exp Date		ul
				10-28-11L	10/31/2011		200
				10/27/2011	6/8/2012		1800
10-28-11Q							
Exp: 11/4/2011							
5ug/ml Vol Work Std #12							
SOURCES							
			Lot	APPL Code	APPL Exp Date		ul
				10-28-11M	10/31/2011		200
				10/27/2011	6/8/2012		1600
10-28-11R							
50ug/ml #260 Surrogate							
Exp: 11/04/11							
Supplier	ID #	ID	Conc. ug/ml	Lot #	Date Code	EXP. Date	ul
Q2SI	120002-01	#260B SURF Solution	2000	173249-28847	10-28-11H	11/14/2011	100
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	3500
10-28-11S							
Exp: 11/4/2011							
5.0ug/ml #260 Surrogate							
SOURCES							
			Lot	APPL Code	APPL Exp Date		ul
				10-28-11R	10/31/2011		200
				K14806-00556	10/27/2011		1800
10-28-11T							
250ug/ml TSA/IBA/Acetonitrile/Cyclohexanone/Acroleln/2-P							
Exp: 11/04/11							
Supplier	ID #	ID	Conc. ug/ml	Lot #	Date Code	EXP. Date	ul
Q2SI	120166-01	Volatile Mix 4-3	2000	178691-29510	10-28-11I	12/17/2011	500
Q2SI	020228-09	Acroleln	10000	179941-29661	10-19-11H	11/21/2011	100
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	3500

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10-28-11U 50ug/ml VOC Std#5 Exp:11/04/11							
Supplier	ID #	ID	Conc. ug/ml	Lot #	Date Code	Exp. Date	ul
O2SI	120016-01-SS	8260 Gases(SS)	2000	168038-28741	10-28-11J	11/10/2011	50
O2SI	020145-02-02	2-CBVG	2000	152530-27271	10-19-11J	11/3/2011	50
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	1900
10-28-11V 50ug/ml VOC Std#6 Exp:11/04/11							
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
O2SI	120023-03-SS	VOC'S 54 COMP.	2000	163271-27771	09-12-11P	11/14/2011	50
O2SI	120296-01	Custom 8260 Solution	2000	166038-27763	09-12-11Q	11/14/2011	50
O2SI	020232-02-SS	Vinyl Acetate(SS)	2000	176774-29257	09-12-11R	11/30/2011	50
O2SI	020620-02-SS	n-HEXANE	1000	179199-29515	10-12-11P	12/14/2011	100
O2SI	020049-02-SS	HEXACHLOROETHANE	1000	154535-25913	09-13-11B	12/29/2011	100
O2SI	020546-02-SS	Heptane(SS)	1000	142276-23593	09-13-11C	12/19/2011	100
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	1550
10-28-11W 250ug/ml TRA/IBA/Acetonitrile/Cyclohexanone/Acroleln/2-P Exp:11/04/11							
Supplier	ID #	ID	Conc. ug/ml	Lot #	Date Code	Exp. Date	ul
O2SI	120166-01-SS	VOC MIX 4-3 (SS)	2000	152531-25468	10-02-11G	11/3/2011	250
O2SI	020229-03-SS	Acrolein SOLUTION (SS)	10000	178607-29549	10-02-11H	11/21/2011	50
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	1700

10/28/11
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10-28-11X 30ug/ml Vol Work Std #7 Exp:11/04/11							
Supplier	ID #	ID	Conc. ug/ml	Lot #	Date Code	Exp. Date	ul
O2SI	120016-03	Gas MIX	2000	169238-28682	10-28-11A	11/30/2011	100
O2SI	020049-02	HEXACHLOROETHANE	1000	164816-28687	10-28-11B	12/14/2011	200
O2SI	020228-02	Benzyl Chloride	1000	163371-29166	10-28-11C	12/14/2011	200
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	2500
10-28-11Y 50ug/ml Vol Work Std #1 Exp:11/04/11							
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
O2SI	020145-02-02	2-CBVG	2000	160092-26637	10-06-11B	12/7/2011	50
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	1950
10-28-11Z 50ug/ml Vol Work Std #8 Exp:11/04/11							
Supplier	ID #	ID	Conc. ug/ml	Lot #	Date Code	Exp. Date	ul
O2SI	120039-02	Volatile Mix, 20-29	2000	163374-28300	10-28-11D	2/14/2012	100
O2SI	120023-03	VOC'S-54 COMP	2000	164454-27872	10-28-11E	2/14/2012	100
O2SI	020232-02	Vinyl Acetate	2000	178902-29552	10-28-11F	11/15/2011	100
O2SI	020520-02	n-Hexane	1000	163378-27889	10-28-11B	11/14/2011	200
O2SI	020546-02	Heptane	1000	169174-29248	10-28-11G	11/14/2011	200
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	3300

10/28/11
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10-28-11AA 50ug/ml Vol Work Std #2 Exp:11/04/11							
Supplier	ID #	ID	ug/ml	Lot #	Date Code	Exp. Date	ul
O2SI	121020-05	HSL'S Ketone Solution	2000	169173-28307	10-12-11B	11/14/2011	100
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	10/14/2012	3900
10-28-11AB Exp: 11/4/2011							
SOURCE#	Lot	APPL Code	APPL Exp Date	ul			
50ug/ml Vol Work Std #7	10-28-11X		10/31/2011	200			
50ug/ml Vol Work Std #8	10-28-11Z		10/31/2011	200			
J&T Brand	10/6/2011		6/8/2012	1600			
10-28-11AC Exp: 11/4/2011							
SOURCE#	Lot	APPL Code	APPL Exp Date	ul			
50ug/ml Vol Work Std #1	10-28-11Y		10/31/2011	200			
J&T Brand	10/27/2011		6/8/2012	1800			

11 100
12 100
13 100
14 100
15 200
16 200
17 300
18 300
19 300
20 300
21 300
22 300
23 300
24 300
25 300
26 300
27 300
28 300
29 300
30 300
31 300
32 300
33 300
34 300
35 300
36 300
37 300
38 300
39 300
40 300
41 300
42 300
43 300
44 300
45 300
46 300
47 300
48 300
49 300
50 300

		10-28-11AD	Exp: 11/4/2011			
		50ug/ml Vol Work Std #12				
		SOURCE	Lot	APPL Code	APPL Exp Date	ul
		50ug/ml Vol Work Std #2	10-28-11AA		10/31/2011	200
		J&T Brand	10/27/2011		6/8/2012	1800
10-28-11AB						
50ug/ml 8250 Surrogate				Conc.	Date	Exp.
Exp: 11/04/11				ug/ml	Lot #	Date
0281 120002-01		8260B Surx Solution	2000	173249-28847	10-28-11H	11/14/2011
J&T Brand		Purge & Trap MeOH	K14R05-00556		10/27/2011	6/8/2012
						1800
10-28-11AP						
5.0ug/ml 8250 Surrogate				Conc.	Date	Exp.
				ug/ml	Lot #	Date
J&T Brand		50ug/ml 8250 SURROGATE	200	10-28-11AE	10-26-11H	11/14/2011
		Purge & Trap MeOH	K14R05-00556		10/27/2011	6/8/2012
						1800
10-28-11AG						
250ug/ml TBA/1BA/Acetonitrile/Cyclohexanone/Acrolein/2-P						APPL
Exp: 11/04/11				Conc.	Date	Exp.
Supplier		ID #	ug/ml	Lot #	Code	Date
0281		120166-01	2000	178851-29510	10-28-11F	12/17/2011
0281		020229-09	10000	173941-29661	10-19-11H	11/21/2011
J&T Brand		Purge & Trap MeOH	K14R05-00556		10/27/2011	6/8/2012
						1800

10/28/11
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10/30/11
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10/30/11
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NOTEBOOK INSERT LABEL

Gasoline
Lot: LB82077
EXP: FEB/2014 STORAGE: ROOM TEMP. 1 x 1ml
47616-U
DATE RECEIVED: _____
SUPELCO
595 North Harrison Road • Bellefonte, PA
16823-0048 USA • Phone 814-369-3441

10/30/11 A-
RS

10/30/11
RS

STANDARD TRANSFER LABEL

Date of Preparation: _____ Exp. Date: _____
Reference Number: _____ Storage: EXP: FEB/2014
Description: Gasoline ROOM TEMP.
Lot #: LB82077 - 29133
Rec: 8/4/11 MFR exp. 02/28/14

10/30/11 B-
RS

10/31/11
RS

REST
CALIF 30205
Unleaded gasoline composite
Lot #: A076842 - 29141
Rec: 8/4/11 MFR exp. 10/31/17
Unleaded Gasoline Composite Standard
50000 ug/ml each in PAT Methanol
Lot# A076842 Exp. Date: 10/2017 Store: Frazier
Restek Corporation - 110 Berner Circle - Bellefonte, PA 16823

10/30/11C						APPL
2000ug/ml Gasoline						Exp.
		Conc.	Lot #	Date	Code	ul
Supplier		ug/ml				
Supelco		20,000	LB82077-29133	10-30-11A	11/9/2012	200
J&T Brand		Purge & Trap MeOH	K14R05-00556	10/27/2011	3/2/2012	1800
10/30/11D						APPL
2000ug/ml Unleaded Gasoline						Exp.
		Conc.	Lot #	Date	Code	ul
Supplier		ug/ml				
Supelco		50,000	A076842-29141	10-30-11B	11/30/2012	200
J&T Brand		Purge & Trap MeOH	K14R05-00556	10/27/2011	3/2/2012	1800

10/30/11
RS

OCMS STANDARD PREPARATION BOOK # _____ PAGE # _____

097

Custom VOC Mix, 16-4, 100
mg/L, 4 x 1 ml
132725-03-4PAK
Lot # Storage Expiry
162917 - 162918 8/11/12
Bohrer P/E/Methanol
Custom VOC Mix 16-4
Lot #: 162917 - 27029
Rec: 8/13/10 MFR exp. 08/11/12

10/30/11
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E

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CHICO RS 12/07/11

Gasoline Curve Preparation for 100mL Purge (water)-THOR

Expiration Date:		10-31-2011	
Date	Conc.	10-30-11C	Final Vol
Code	ug/L	Exp: 12-27-12	w/PT H2O
10-30-11F	20	1	100
10-30-11G	60	2.5	100
10-30-11H	100	5	100
10-30-11I	300	15	100
10-30-11J	600	30	100
10-30-11K	600	40	100
10-30-11L	1000	50	100

10/30/11
RS

RS

Volatile Standard Curve Preparation for 10mL Purge (2260 water)-CHICO

Expiration Date:		10/31/2011									
Date	Conc.	50ug/ml Vol Std #9	50ug/ml Surrogate	50ug/ml Vol Std #7	50ug/ml Vol Std #8	50ug/ml Surrogate	50ug/ml Vol Std #10	50ug/ml Vol Std #11	50ug/ml Vol Std #12	50ug/ml Vol Std #13	50ug/ml Vol Std #14
Code	ug/L	Exp: 11-04-11	Exp: 11-04-11	Exp: 11-04-11	Exp: 11-04-11	Exp: 11-04-11	Exp: 11-04-11	Exp: 11-04-11	Exp: 11-04-11	Exp: 11-04-11	Exp: 11-04-11
10-30-11L	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	n/a	3
10-30-11M	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	n/a	5
10-30-11N	1	10	20	n/a	n/a	n/a	10	n/a	n/a	n/a	10
10-30-11O	2	20	40	n/a	n/a	n/a	20	n/a	n/a	n/a	20
10-30-11P	5	n/a	n/a	5	5	10	n/a	5	6	n/a	6
10-30-11Q	10	n/a	n/a	10	10	25	n/a	10	20	n/a	20
10-30-11R	20	n/a	n/a	20	20	40	n/a	20	20	n/a	20
10-30-11S	40	n/a	n/a	40	40	80	n/a	40	40	n/a	40
10-30-11T	100	n/a	n/a	100	100	n/a	n/a	100	100	n/a	100

10/30/11
RS

250ug/ml TAPD	Final Vol
10-28-11T	w/PT H2O
Exp: 11-04-11	ml
3	50
5	50
10	50
15	50
20	50
25	50
30	50
35	50
40	50

Volatile Standard Curve Preparation for 10mL Purge (2260 water)-MAX

Expiration Date:		11/1/2011									
Date	Conc.	50ug/ml Vol Std #9	50ug/ml Surrogate	50ug/ml Vol Std #7	50ug/ml Vol Std #8	50ug/ml Surrogate	50ug/ml Vol Std #10	50ug/ml Vol Std #11	50ug/ml Vol Std #12	50ug/ml Vol Std #13	50ug/ml Vol Std #14
Code	ug/L	Exp: 11-04-11	Exp: 11-04-11	Exp: 11-04-11	Exp: 11-04-11	Exp: 11-04-11	Exp: 11-04-11	Exp: 11-04-11	Exp: 11-04-11	Exp: 11-04-11	Exp: 11-04-11
10-31-11A	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	n/a	3
10-31-11B	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	n/a	5
10-31-11C	1	10	20	n/a	n/a	n/a	10	n/a	n/a	n/a	10
10-31-11D	2	20	40	n/a	n/a	n/a	20	n/a	n/a	n/a	20
10-31-11E	5	n/a	n/a	5	5	10	n/a	5	6	n/a	6
10-31-11F	10	n/a	n/a	10	10	25	n/a	10	20	n/a	20
10-31-11G	20	n/a	n/a	20	20	40	n/a	20	20	n/a	20
10-31-11H	40	n/a	n/a	40	40	80	n/a	40	40	n/a	40
10-31-11I	100	n/a	n/a	100	100	n/a	n/a	100	100	n/a	100

10/31/11
RS

250ug/ml TAPD	Final Vol
10-28-11T	w/PT H2O
Exp: 11-04-11	ml
3	50
5	50
10	50
15	50
20	50
25	50
30	50
35	50
40	50

Injection Log

Directory: M:\CHICO\DATA\111030\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	1030C13W.I 1		20ug/mL BFB STD 10-19-11	Water 2ul	30 Oct 11 22:01
2	1	1030C15W.I 1		Voc Std 10-30-11@0.3ug/L	Water 10mLw/ IS:10-30-11	30 Oct 11 23:28
3	1	1030C16W.I 1		Voc Std 10-30-11@0.5ug/L	Water 10mLw/ IS:10-30-11	31 Oct 11 00:11
4	1	1030C17W.I 1		Voc Std 10-30-11@1.0ug/L	Water 10mLw/ IS:10-30-11	31 Oct 11 00:54
5	1	1030C18W.I 1		Voc Std 10-30-11@2.0ug/L	Water 10mLw/ IS:10-30-11	31 Oct 11 1:37
6	1	1030C19W.I 1		Voc Std 10-30-11@5.0ug/L	Water 10mLw/ IS:10-30-11	31 Oct 11 2:20
7	1	1030C20W.I 1		Voc Std 10-30-11@10ug/L	Water 10mLw/ IS:10-30-11	31 Oct 11 3:03
8	1	1030C21W.I 1		Voc Std 10-30-11@20ug/L	Water 10mLw/ IS:10-30-11	31 Oct 11 3:46
9	1	1030C22W.I 1		Voc Std 10-30-11@40ug/L	Water 10mLw/ IS:10-30-11	31 Oct 11 4:29
10	1	1030C23W.I 1		Voc Std 10-30-11@100ug/L	Water 10mLw/ IS:10-30-11	31 Oct 11 5:12
11	1	1030C26W.I 1		20ug/mL BFB STD 10-19-11	Water 2ul	31 Oct 11 7:21
12	1	1030C27W.I 1		Voc Std 10-30-11@10ug/L	Water 10mLw/ IS&S:10-30/1	31 Oct 11 8:05
13	1	1030C28W.I 1		111030A LCS-1WC (SS)	Water 10mLw/ IS&S:10-30/1	31 Oct 11 8:48
14	1	1030C29W.I 1		GAS 300ug/L (SS)	Water 10mLw/ IS&S:10-30/1	31 Oct 11 9:31
15	1	1030C30W.I 1		GAS 300ug/L CCV-1WC	Water 10mLw/ IS&S:10-30/1	31 Oct 11 10:14
16	1	1030C31W.I 1		GAS 300ug/L LCS-1WC	Water 10mLw/ IS&S:10-30/1	31 Oct 11 10:57
17	1	1030C34W.I 1		111030A BLk-1WC	Water 10mLw/ IS&S:10-30/1	31 Oct 11 13:02
18	1	1030C35W.I 1		AY49335W01	Water 10mLw/ IS&S:10-30/1	31 Oct 11 13:39
19	1	1030C36W.I 1		AY49333W04	Water 10mLw/ IS&S:10-30/1	31 Oct 11 14:16
20	1	1030C37W.I 1		AY49334W13	Water 10mLw/ IS&S:10-30/1	31 Oct 11 14:53
21	1	1030C38W.I 1		AY49336W04	Water 10mLw/ IS&S:10-30/1	31 Oct 11 15:31
22	1	1030C39W.I 1		AY49334W141516 MS-1WC (VOC)	Water 10mLw/ IS&S:10-30/1	31 Oct 11 16:08
23	1	1030C40W.I 1		AY49334W141516 MSD-1WC (VOC)	Water 10mLw/ IS&S:10-30/1	31 Oct 11 16:45
24	1	1030C41W.I 1		AY49334W161718 MS-1WC (GAS)	Water 10mLw/ IS&S:10-30/1	31 Oct 11 17:22
25	1	1030C42W.I 1		AY49334W161718 MSD-1WC (GAS)	Water 10mLw/ IS&S:10-30/1	31 Oct 11 17:59

METALS

APPL, INC.

METALS
QC Summary

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
6020	LEAD (PB) (DISSOL	0.19 J	0.5	0.22	0.11	ug/L	11/10/11	11/11/11	#602D-111110A-AY49334

J = Estimated value.

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
6020	LEAD (PB) (DISSOLVED)	50.0	50.0	100	80-120	11/10/2011	1/11/2011	#602D-111110A-AY49334

429

Comments:

Matrix Spike Recoveries

METALS

APPL ID: 111110W-49334 MS - 161255

APPL Inc.

908 North Temperance Avenue

Sample ID: AY49334

Clovis, CA 93611

Client ID: ES047

Method	Compound Name	Spike Lvl ug/L	Matrix Res ug/L	SPK Res ug/L	DUP Res ug/L	SPK % Recovery	DUP % Recovery	RPD	RPD Max	RPD Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group	QC Sample
6020	LEAD (PB) (DISSOLVE	50.0	ND	49.5	48.8	99.0	97.6	1.4	20	80-120	1/10/2011	1/11/2011	1/10/2011	1/11/2011	161255	AY49334

430

Comments:

METALS
Sample Data



Metals Analysis

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

Attn: Stacy Fineran
Project: RED HILL/1022-024

Sample ID: ES046

Sample Collection Date: 10/24/2011

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 66102

APPL ID: AY49333

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
6020	LEAD (PB) (DISSOLVED)	0.22 U	0.5	0.22	0.11	ug/L	1	11/10/2011	11/11/2011

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\041SMPL.D\041SMPL.D#
 Date Acquired: Nov 11 2011 04:00 pm
 Operator: NBS
 Sample Name: AY49333W13
 Misc Info: 11110A-3015
 Vial Number: 3202
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: Sample
 Prep Dil Factor: 1.11
 Total Dil Factor: 1.11

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	----- ug/l	#VALUE!	-----	0	
9 Be	-0.01 ug/l	-0.01	5.25	1000	
11 B	74.87 ug/l	83.18	0.56	1000	
23 Na	63250.00 ug/l	70270.75	0.40	25000	>Cal
24 Mg	23790.00 ug/l	26430.69	0.63	50000	
27 Al	35.06 ug/l	38.95	3.68	20000	
39 K	2658.00 ug/l	2953.04	0.91	20000	
44 Ca	12970.00 ug/l	14409.67	0.32	50000	
47 Ti	1.59 ug/l	1.77	2.95	1000	
51 V	1.07 ug/l	1.18	4.80	1000	
52 Cr	0.15 ug/l	0.16	6.59	1000	
55 Mn	1421.00 ug/l	1578.73	0.18	1000	>Cal
56 Fe	849.00 ug/l	943.24	0.37	20000	
59 Co	0.20 ug/l	0.22	4.00	1000	
60 Ni	1.09 ug/l	1.21	7.81	1000	
63 Cu	-0.35 ug/l	-0.39	4.23	1000	
65 Cu	-0.35 ug/l	-0.38	7.78	1000	
66 Zn	1.22 ug/l	1.36	1.97	1000	
75 As	0.07 ug/l	0.08	32.39	1000	
78 Se	0.04 ug/l	0.04	27.66	1000	
78 Se	0.16 ug/l	0.18	40.54	1000	
88 Sr	115.00 ug/l	127.77	1.27	1000	
88 Sr	117.90 ug/l	130.99	0.51	1000	
95 Mo	0.48 ug/l	0.54	2.21	1000	
106 (Cd)	----- ug/l	#VALUE!	-----	#####	
107 Ag	0.00 ug/l	0.00	108.51	500	
108 (Cd)	----- ug/l	#VALUE!	-----	#####	
111 Cd	0.01 ug/l	0.02	47.56	1000	
118 Sn	0.11 ug/l	0.13	17.45	1000	
121 Sb	0.07 ug/l	0.08	13.55	1000	
137 Ba	23.17 ug/l	25.74	1.06	1000	
205 Tl	0.01 ug/l	0.01	19.54	1000	
206 (Pb)	----- ug/l	#VALUE!	-----	#####	
207 (Pb)	----- ug/l	#VALUE!	-----	#####	
208 Pb	-0.16 ug/l	-0.18	5.22	1000	

ISTD Elements

Element	CPS	Mean	RSD(%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	3155449.80	0.29	2775704.50	113.7	70 - 120		
45 Sc	684547.81	0.76	500780.41	136.7	70 - 120	IS Fai	
45 Sc	107493.14	1.57	95494.08	112.6	70 - 120		
45 Sc	2252708.50	1.98	1460980.80	154.2	70 - 120	IS Fai	
72 Ge	105205.95	0.22	96219.04	109.3	70 - 120		
72 Ge	48357.57	0.66	43611.78	110.9	70 - 120		
72 Ge	228774.88	0.47	213204.63	107.3	70 - 120		
115 In	1463890.90	0.38	1381264.00	106.0	70 - 120		
159 Tb	2015104.00	0.80	1843940.90	109.3	70 - 120		
165 Ho	2022052.00	0.63	1844184.90	109.6	70 - 120		

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
 2 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Fail

Metals Analysis

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

Attn: Stacy Fineran

Project: RED HILL/1022-024

Sample ID: ES047

Sample Collection Date: 10/24/2011

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 66102

APPL ID: AY49334

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
6020	LEAD (PB) (DISSOLVED)	0.22U	0.5	0.22	0.11	ug/L	1	11/10/2011	11/11/2011

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\042SMPL.D\042SMPL.D#
 Date Acquired: Nov 11 2011 04:06 pm
 Operator: NBS
 Sample Name: AY49334W51
 Misc Info: 111110A-3015
 Vial Number: 3203
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: Sample
 Prep Dil Factor: 1.11
 Total Dil Factor: 1.11

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	----- ug/l	#VALUE!	-----	0	
9 Be	-0.01 ug/l	-0.01	2.99	1000	
11 B	77.21 ug/l	85.78	0.37	1000	
23 Na	62580.00 ug/l	69526.38	1.20	25000	>Cal
24 Mg	23840.00 ug/l	26486.24	0.85	50000	
27 Al	10.66 ug/l	11.84	1.02	20000	
39 K	2644.00 ug/l	2937.48	0.98	20000	
44 Ca	12880.00 ug/l	14309.68	1.08	50000	
47 Ti	1.96 ug/l	2.17	54.12	1000	
51 V	1.12 ug/l	1.24	3.35	1000	
52 Cr	0.18 ug/l	0.20	5.89	1000	
55 Mn	1422.00 ug/l	1579.84	0.97	1000	>Cal
56 Fe	862.60 ug/l	958.35	1.25	20000	
59 Co	0.26 ug/l	0.29	3.17	1000	
60 Ni	1.23 ug/l	1.37	2.27	1000	
63 Cu	-0.28 ug/l	-0.31	4.35	1000	
65 Cu	-0.29 ug/l	-0.32	5.75	1000	
66 Zn	5.31 ug/l	5.90	2.33	1000	
75 As	0.09 ug/l	0.10	35.61	1000	
78 Se	0.04 ug/l	0.04	18.02	1000	
78 Se	0.13 ug/l	0.15	43.74	1000	
88 Sr	114.00 ug/l	126.65	0.20	1000	
88 Sr	116.30 ug/l	129.21	0.82	1000	
95 Mo	0.49 ug/l	0.54	2.47	1000	
106 (Cd)	----- ug/l	#VALUE!	-----	#####	
107 Ag	0.00 ug/l	0.00	9066.00	500	
108 (Cd)	----- ug/l	#VALUE!	-----	#####	
111 Cd	0.00 ug/l	0.00	326.50	1000	
118 Sn	0.09 ug/l	0.11	17.30	1000	
121 Sb	0.05 ug/l	0.05	7.46	1000	
137 Ba	24.70 ug/l	27.44	0.69	1000	
205 Tl	0.01 ug/l	0.01	3.49	1000	
206 (Pb)	----- ug/l	#VALUE!	-----	#####	
207 (Pb)	----- ug/l	#VALUE!	-----	#####	
208 Pb	-0.05 ug/l	-0.06	14.15	1000	

ISTD Elements

Element	CFS	Mean RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3186521.00	0.78	2775704.50	114.8	70 - 120	
45 Sc	672635.13	1.27	500780.41	134.3	70 - 120	IS Fai
45 Sc	107878.18	1.34	95494.08	113.0	70 - 120	
45 Sc	2212596.80	1.01	1460980.80	151.4	70 - 120	IS Fai
72 Ge	106314.52	1.16	96219.04	110.5	70 - 120	
72 Ge	48500.91	1.75	43611.78	111.2	70 - 120	
72 Ge	231305.58	0.13	213204.63	108.5	70 - 120	
115 In	1470644.80	1.61	1381264.00	106.5	70 - 120	
159 Tb	2036736.10	0.19	1843940.90	110.5	70 - 120	
165 Ho	2036137.40	0.55	1844184.90	110.4	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
 2 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Fail

Metals Analysis

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

Attn: Stacy Fineran
Project: RED HILL/1022-024

Sample ID: ES049

Sample Collection Date: 10/24/2011

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 66102

APPL ID: AY49336

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
6020	LEAD (PB) (DISSOLVED)	0.22J	0.5	0.22	0.11	ug/L	1	11/10/2011	11/11/2011

J = Estimated value.

Printed: 11/15/2011 12:57:19 PM

APPL-F1-SC-NoMC-REG MDLs

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\052SMPL.D\052SMPL.D#
 Date Acquired: Nov 11 2011 05:06 pm
 Operator: NBS
 Sample Name: AY49336W13
 Misc Info: 111110A-3015
 Vial Number: 3208
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: Sample
 Prep Dil Factor: 1.11
 Total Dil Factor: 1.11

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	----- ug/l	#VALUE!	-----	0	
9 Be	-0.01 ug/l	-0.01	2.49	1000	
11 B	119.20 ug/l	132.43	0.84	1000	
23 Na	79710.00 ug/l	88557.81	0.80	25000	>Cal
24 Mg	26180.00 ug/l	29085.98	1.28	50000	
27 Al	28.51 ug/l	31.67	0.66	20000	
39 K	3332.00 ug/l	3701.85	0.44	20000	
44 Ca	22270.00 ug/l	24741.97	1.18	50000	
47 Ti	0.71 ug/l	0.79	6.25	1000	
51 V	15.17 ug/l	16.85	0.80	1000	
52 Cr	0.80 ug/l	0.89	2.21	1000	
55 Mn	106.10 ug/l	117.88	0.65	1000	
56 Fe	83.80 ug/l	93.10	0.12	20000	
59 Co	1.02 ug/l	1.13	0.83	1000	
60 Ni	3.41 ug/l	3.79	1.43	1000	
63 Cu	0.33 ug/l	0.36	4.20	1000	
65 Cu	0.33 ug/l	0.37	5.05	1000	
66 Zn	4.07 ug/l	4.52	2.37	1000	
75 As	0.30 ug/l	0.34	16.47	1000	
78 Se	0.13 ug/l	0.14	5.92	1000	
78 Se	0.15 ug/l	0.16	65.10	1000	
88 Sr	150.20 ug/l	166.87	1.25	1000	
88 Sr	151.90 ug/l	168.76	0.26	1000	
95 Mo	19.64 ug/l	21.82	0.46	1000	
106 (Cd)	----- ug/l	#VALUE!	-----	#####	
107 Ag	0.06 ug/l	0.06	16.30	500	
108 (Cd)	----- ug/l	#VALUE!	-----	#####	
111 Cd	0.01 ug/l	0.01	93.49	1000	
118 Sn	0.18 ug/l	0.20	15.54	1000	
121 Sb	0.74 ug/l	0.83	4.50	1000	
137 Ba	12.11 ug/l	13.45	0.77	1000	
205 Tl	0.02 ug/l	0.02	13.88	1000	
206 (Pb)	----- ug/l	#VALUE!	-----	#####	
207 (Pb)	----- ug/l	#VALUE!	-----	#####	
208 Pb	0.20 ug/l	0.22	6.86	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec (%)	QC Range (%)	Flag
6 Li	3041975.00	0.97	2775704.50	109.6	70 - 120	
45 Sc	642764.69	0.96	500780.41	128.4	70 - 120	IS Fai
45 Sc	102731.88	1.25	95494.08	107.6	70 - 120	
45 Sc	2133139.30	1.51	1460980.80	146.0	70 - 120	IS Fai
72 Ge	102652.80	0.93	96219.04	106.7	70 - 120	
72 Ge	46837.37	1.69	43611.78	107.4	70 - 120	
72 Ge	210432.05	0.56	213204.63	108.1	70 - 120	
115 In	1482746.90	1.89	1381264.00	107.3	70 - 120	
159 Tb	2029492.10	1.13	1843940.90	110.1	70 - 120	
165 Ho	2027253.00	1.23	1844184.90	109.9	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
 2 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Fail

METALS
Calibration Data

APPL, INC.

A.P.P.L. INC.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No: 66102 SDG: 66102

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 11/11/2011 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 12:39	%R(1)	True CCVI	Found 13:03	%R(1)	True CCVI	Found 13:33	%R(1)	
Lead (Pb)	100	106.3	106	50	50.31	101	50	50.34	101	P

A.P.P.L. INC.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No: 66102 SDG: 66102

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 11/11/2011 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 12:39	%R(1)	True CCV1	Found 15:05	%R(1)	True CCV1	Found 16:30	%R(1)	
Lead (Pb)	100	106.3	106	50	49.96	99.9	50	50.41	101	P

A.P.P.L. INC.
2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No: 66102 SDG: 66102

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 11/11/2011 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 12:39	%R(1)	True CCV1	Found 18:04	%R(1)	True	Found	%R(1)	
Lead (Pb)	100	106.3	106	50	48.04	96.1				P

A.P.P.L. INC.

3

BLANKS

Lab Name: A.P.P.L. INC.

Contract: Environet, Inc.

ARF No.: 66102

SDG: 66102

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analysis Date: 11/11/2011

Analyte	Initial Calibration Blank (ug/L) C 12:57	Continuing Calibration Blank (ug/L)						Preparation Blank C 14:16	M
		1 C 13:09	2 C 13:46	3 C 15:17					
Lead (Pb)	.50 U	.50 U	.50 U	.50 U	.50 U	.50 U	.19 J	P	

A.P.P.L. INC.

3

BLANKS

Lab Name: A.P.P.L. INC.

Contract: Environet, Inc.

ARF No.: 66102

SDG: 66102

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analysis Date: 11/11/2011

Analyte	Initial Calibration Blank (ug/L) C 12:57	Continuing Calibration Blank (ug/L)						Preparation Blank C 14:16	M P
		1 16:42	C	2 18:16	C	3	C		
Lead (Pb)	.50 U	.50 U		.50 U				.19 J	P

ICP INTERFERENCE CHECK SAMPLE

Lab Name:	<u>A.P.P.L. INC.</u>	Contract:	<u>Environet, Inc.</u>
ARF No.:	<u>66102</u>	SDG:	<u>66102</u>
ICP ID Number:	<u>Optimus</u>	ICS Source:	<u>Environmental Express</u>

Analysis Date: 11/11/2011

Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 13:15	Sol AB 13:21	%R(1)
Lead (Pb)		500	3.499	502	100

(1) Control Limits: Metals 80-120

A.P.P.L. INC.
5B
POST DIGEST SPIKE SAMPLE RECOVERY

CLIENT SAMPLE NO.

ES047

Lab Name: A.P.P.L. INC.

Contract: Environet, Inc.

ARF No.: 66102

SDG: 66102

Analysis Date: 11/11/2011

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Lead (Pb)	75-125	259.629	-0.0610389	277.500	93.6		

Comments:

11/11/201116:06 AY49334W51

11/11/201116:54 AY49334W51-A

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\050SMPL.D\050SMPL.D#
 Date Acquired: Nov 11 2011 04:54 pm
 Operator: NBS
 Sample Name: AY49334W51-A
 Misc Info: 111110A-3015
 Vial Number: 3206
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: Sample
 Prep Dil Factor: 1.11
 Total Dil Factor: 1.11

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	----- ug/l	#VALUE!	-----	0	
9 Be	27.12 ug/l	30.13	1.56	1000	
11 B	219.90 ug/l	244.31	1.71	1000	
23 Na	81860.00 ug/l	90946.46	1.33	25000	>Cal
24 Mg	43910.00 ug/l	48784.01	1.40	50000	
27 Al	1865.00 ug/l	2072.02	1.45	20000	
39 K	7013.00 ug/l	7791.44	0.83	20000	
44 Ca	35340.00 ug/l	39262.74	0.74	50000	
47 Ti	223.10 ug/l	247.86	0.84	1000	
51 V	240.60 ug/l	267.31	0.69	1000	
52 Cr	236.20 ug/l	262.42	1.19	1000	
55 Mn	1601.00 ug/l	1778.71	1.31	1000	>Cal
56 Fe	1722.00 ug/l	1913.14	1.16	20000	
59 Co	239.30 ug/l	265.86	1.18	1000	
60 Ni	220.50 ug/l	244.98	0.57	1000	
63 Cu	217.50 ug/l	241.64	0.86	1000	
65 Cu	218.50 ug/l	242.75	0.57	1000	
66 Zn	414.80 ug/l	460.84	0.80	1000	
75 As	221.10 ug/l	245.64	0.31	1000	
78 Se	198.20 ug/l	220.20	2.61	1000	
78 Se	205.70 ug/l	228.53	1.47	1000	
88 Sr	383.00 ug/l	425.51	0.35	1000	
88 Sr	358.90 ug/l	398.74	1.23	1000	
95 Mo	242.00 ug/l	268.86	1.21	1000	
106 (Cd)	----- ug/l	#VALUE!	-----	#####	
107 Ag	68.49 ug/l	76.09	4.03	500	
108 (Cd)	----- ug/l	#VALUE!	-----	#####	
111 Cd	44.30 ug/l	49.22	1.31	1000	
118 Sn	271.00 ug/l	301.08	1.25	1000	
121 Sb	243.60 ug/l	270.64	0.29	1000	
137 Ba	267.20 ug/l	296.86	0.54	1000	
205 Tl	227.70 ug/l	252.97	0.11	1000	
206 (Pb)	----- ug/l	#VALUE!	-----	#####	
207 (Pb)	----- ug/l	#VALUE!	-----	#####	
208 Pb	233.90 ug/l	259.86	1.71	1000	

ISTD Elements

Element	CPS	Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2876337.50	0.73	2775704.50	103.6	70 - 120		
45 Sc	648562.19	0.34	500780.41	129.5	70 - 120	IS Fai	
45 Sc	102181.34	0.75	95494.08	107.0	70 - 120		
45 Sc	2157529.50	1.05	1460980.80	147.7	70 - 120	IS Fai	
72 Ge	102359.33	0.69	96219.04	106.4	70 - 120		
72 Ge	46173.78	0.92	43611.78	105.9	70 - 120		
72 Ge	223471.42	0.75	213204.63	104.8	70 - 120		
115 In	1440331.40	0.34	1381264.00	104.3	70 - 120		
159 Tb	1995111.90	0.82	1843940.90	108.2	70 - 120		
165 Ho	1988682.90	0.53	1844184.90	107.8	70 - 120		

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
 2 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Fail

A.P.P.L. INC.
 9
 ICP SERIAL DILUTION

CLIENT SAMPLE NO.

ES047

Lab Name: A.P.P.L. INC.
 ARF No.: 66102
 Matrix: water

Contract: Environet, Inc.
 SDG: 66102

Analysis Date: 11/11/2011

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	Serial Dilution Result (S)	%D	Q	M
	C	C			
Lead (Pb)	-0.0610389	-1.23988	NA		

Comments:

11/11/2011 16:06 AY49334W51

11/11/2011 17:00 AY49334W51-1/5

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\051SMPL.D\051SMPL.D#
 Date Acquired: Nov 11 2011 05:00 pm
 Operator: NBS
 Sample Name: AY49334W51-1/5
 Misc Info: 111110A-3015
 Vial Number: 3207
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: Sample
 Prep Dil Factor: 5.56
 Total Dil Factor: 5.56

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	----- ug/l	#VALUE!	-----	0	
9 Be	-0.01 ug/l	-0.07	3.30	1000	
11 B	17.93 ug/l	99.62	0.55	1000	
23 Na	13240.00 ug/l	73561.44	1.12	25000	
24 Mg	5084.00 ug/l	28246.70	1.02	50000	
27 Al	1.95 ug/l	10.81	25.75	20000	
39 K	473.00 ug/l	2627.99	1.52	20000	
44 Ca	2644.00 ug/l	14690.06	1.59	50000	
47 Ti	0.34 ug/l	1.89	8.30	1000	
51 V	3.79 ug/l	21.04	2.49	1000	
52 Cr	0.14 ug/l	0.80	4.27	1000	
55 Mn	287.90 ug/l	1599.57	0.52	1000	
56 Fe	175.80 ug/l	976.74	0.50	20000	
59 Co	-0.18 ug/l	-1.02	3.42	1000	
60 Ni	0.22 ug/l	1.23	6.12	1000	
63 Cu	-0.54 ug/l	-3.02	2.33	1000	
65 Cu	-0.54 ug/l	-3.00	2.74	1000	
66 Zn	1.00 ug/l	5.58	4.28	1000	
75 As	0.92 ug/l	5.11	1.72	1000	
78 Se	0.16 ug/l	0.87	1.85	1000	
78 Se	0.30 ug/l	1.65	38.09	1000	
88 Sr	22.51 ug/l	125.07	1.55	1000	
88 Sr	20.24 ug/l	112.45	0.28	1000	
95 Mo	0.18 ug/l	1.01	8.72	1000	
106 (Cd)	----- ug/l	#VALUE!	-----	#####	
107 Ag	0.83 ug/l	4.59	0.55	500	
108 (Cd)	----- ug/l	#VALUE!	-----	#####	
111 Cd	0.01 ug/l	0.07	56.81	1000	
118 Sn	0.30 ug/l	1.65	5.07	1000	
121 Sb	1.56 ug/l	8.68	3.00	1000	
137 Ba	4.97 ug/l	27.59	0.72	1000	
205 Tl	0.01 ug/l	0.06	8.19	1000	
206 (Pb)	----- ug/l	#VALUE!	-----	#####	
207 (Pb)	----- ug/l	#VALUE!	-----	#####	
208 Pb	-0.22 ug/l	-1.24	2.31	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3013682.80	1.03	2775704.50	108.6	70 - 120	
45 Sc	545314.75	0.37	500780.41	108.9	70 - 120	
45 Sc	95160.34	0.89	95494.08	99.7	70 - 120	
45 Sc	1580825.90	0.15	1460980.80	108.2	70 - 120	
72 Ge	104611.55	0.65	96219.04	108.7	70 - 120	
72 Ge	45792.49	0.44	43611.78	105.0	70 - 120	
72 Ge	227516.67	0.25	213204.63	106.7	70 - 120	
115 In	1384767.60	0.50	1381264.00	100.3	70 - 120	
159 Tb	1892859.60	0.65	1843940.90	102.7	70 - 120	
165 Ho	1897757.40	0.79	1844184.90	102.9	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass
 ISTD: Pass

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\004CAL
 Date Acquired: Nov 11 2011 12:08 pm
 Operator: NBS
 Sample Name: Calibration Blank
 Misc Info:
 Vial Number: 1102
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:06 pm
 Sample Type: CalBlk
 Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean	SD	RSD(%)
6 Li	2775705.00 A	31080.00	1.12
7 (Li)	152897.91 P	508.10	0.33
9 Be	164.45 P	15.75	9.58
11 B	9503.37 P	213.80	2.25
23 Na	81958.40 P	248.30	0.30
24 Mg	134.45 P	6.94	5.16
27 Al	111.12 P	16.78	15.10
39 K	60334.78 P	2276.00	3.77
44 Ca	384.84 P	48.59	12.63
45 Sc	500780.41 P	2032.00	0.41
45 Sc	95494.08 P	252.60	0.26
45 Sc	1460981.00 A	25510.00	1.75
47 Ti	4.89 P	0.77	15.75
51 V	3955.25 P	110.20	2.79
52 Cr	547.13 P	20.02	3.66
55 Mn	165.78 P	8.57	5.17
56 Fe	5746.57 P	137.00	2.38
59 Co	1492.99 P	62.44	4.18
60 Ni	69.78 P	22.72	32.56
63 Cu	2222.87 P	55.11	2.48
65 Cu	1076.95 P	27.98	2.60
66 Zn	207.12 P	12.10	5.84
72 Ge	96219.04 P	484.10	0.50
72 Ge	43611.78 P	490.40	1.12
72 Ge	213204.59 P	1657.00	0.78
75 As	266.34 P	7.21	2.71
78 Se	4.67 P	1.53	32.74
78 Se	30.00 P	1.16	3.85
88 Sr	48.89 P	8.39	17.16
88 Sr	188.90 P	11.71	6.20
95 Mo	111.12 P	22.69	20.42
106 (Cd)	31.11 P	10.18	32.72
107 Ag	35.56 P	13.47	37.88
108 (Cd)	27.78 P	5.09	18.33
111 Cd	0.12 P	4.33	3513.10
115 In	1381264.00 A	15790.00	1.14
118 Sn	495.58 P	60.50	12.21
121 Sb	323.35 P	35.28	10.91
137 Ba	91.12 P	13.47	14.78
159 Tb	1843941.00 A	33820.00	1.83
165 Ho	1844185.00 A	22050.00	1.20
205 Tl	78.89 P	5.09	6.45
206 (Pb)	1670.17 P	51.97	3.11
207 (Pb)	1455.69 P	79.06	5.43
208 Pb	6738.71 P	70.43	1.05

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\005CAL.S.D\005CAL.S.D#
 Date Acquired: Nov 11 2011 12:14 pm
 Operator: NBS
 Sample Name: 111111 Standard 1
 Misc Info:
 Vial Number: 1103
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:12 pm
 Sample Type: CalStd
 Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean	SD	RSD(%)	Cal Coef
6 Li	2934478.00 A	12100.00	0.41	0.0000
7 {Li}	160812.41 P	1266.00	0.79	0.0000
9 Be	1031.18 P	27.15	2.63	0.0000
11 B	10014.79 P	224.60	2.24	0.0000
23 Na	101764.30 P	5296.00	5.20	0.0000
24 Mg	2435.84 P	56.81	2.33	0.0000
27 Al	465.58 P	50.04	10.75	0.0000
39 K	63455.74 P	1758.80	2.77	0.0000
44 Ca	441.03 P	5.03	1.14	0.0000
45 Sc	483714.81 P	17820.00	3.68	0.0000
45 Sc	96706.18 P	602.60	0.62	0.0000
45 Sc	1494561.00 A	14240.00	0.95	0.0000
47 Ti	16.89 P	3.36	19.87	0.0000
51 V	4556.33 P	51.66	1.13	0.0000
52 Cr	876.48 P	32.73	3.73	0.0000
55 Mn	7451.77 P	52.30	0.70	0.0000
56 Fe	12699.44 P	213.90	1.68	0.0000
59 Co	1820.58 P	82.65	4.54	0.0000
60 Ni	166.23 P	12.10	7.28	0.0000
63 Cu	3334.65 P	61.70	1.85	0.0000
65 Cu	1647.67 P	94.43	5.73	0.0000
66 Zn	231.56 P	11.34	4.90	0.0000
72 Ge	93081.49 P	2181.00	2.34	0.0000
72 Ge	43620.24 P	387.20	0.89	0.0000
72 Ge	210910.70 P	1414.00	0.67	0.0000
75 As	300.78 P	7.07	2.35	0.0000
78 Se	21.00 P	2.60	12.40	0.0000
78 Se	30.33 P	6.33	20.88	0.0000
88 Sr	303.35 P	25.17	8.30	0.0000
88 Sr	1913.54 P	79.67	4.16	0.0000
95 Mo	385.58 P	18.36	4.76	0.0000
106 {Cd}	51.11 P	6.94	13.58	0.0000
107 Ag	447.80 P	37.47	8.37	0.0000
108 {Cd}	28.89 P	17.10	59.19	0.0000
111 Cd	182.07 P	18.49	10.16	0.0000
115 In	1383497.00 A	12980.00	0.94	0.0000
118 Sn	901.17 P	20.10	2.23	0.0000
121 Sb	988.96 P	26.95	2.73	0.0000
137 Ba	304.46 P	49.48	16.25	0.0000
159 Tb	1838841.00 A	19950.00	1.08	0.0000
165 Ho	1842078.00 A	20850.00	1.13	0.0000
205 Tl	1497.92 P	40.19	2.68	0.0000
206 {Pb}	2154.70 P	105.60	4.90	0.0000
207 {Pb}	1842.42 P	104.10	5.65	0.0000
208 Pb	8565.85 P	320.10	3.74	0.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2934478.30	0.41	2775704.50	105.7	70 -	120
45 Sc	483714.78	3.68	500780.41	96.6	70 -	120
45 Sc	96706.18	0.62	95494.08	101.3	70 -	120
45 Sc	1494561.00	0.95	1460980.80	102.3	70 -	120
72 Ge	93081.49	2.34	96219.04	96.7	70 -	120
72 Ge	43620.24	0.89	43611.78	100.0	70 -	120
72 Ge	210910.72	0.67	213204.63	98.9	70 -	120
115 In	1383496.90	0.94	1381264.00	100.2	70 -	120
159 Tb	1838841.50	1.08	1843940.90	99.7	70 -	120
165 Ho	1842078.10	1.13	1844184.90	99.9	70 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass
 ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\006CAL5.D\006CAL5.D#
 Date Acquired: Nov 11 2011 12:20 pm
 Operator: NBS
 Sample Name: 111111 Standard 2
 Misc Info:
 Vial Number: 1104
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:18 pm
 Sample Type: CalStd
 Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean	SD	RSD(%)	Cal Coef
6 Li	3013436.00 A	14250.00	0.47	0.0000
7 (Li)	162843.41 P	655.10	0.40	1.0000
9 Be	10180.43 P	411.30	4.04	1.0000
11 B	16379.42 P	483.40	2.95	1.0000
23 Na	196689.50 P	7056.00	3.59	1.0000
24 Mg	23141.91 P	43.26	0.19	1.0000
27 Al	4021.80 P	226.90	5.64	1.0000
39 K	76357.12 P	2463.00	3.23	1.0000
44 Ca	1793.11 P	71.50	3.99	1.0000
45 Sc	510541.00 P	4569.00	0.89	0.0000
45 Sc	97262.66 P	635.50	0.65	0.0000
45 Sc	1465690.00 A	21530.00	1.47	0.0000
47 Ti	156.45 P	19.06	12.18	1.0000
51 V	8092.54 P	134.80	1.67	1.0000
52 Cr	4117.09 P	42.23	1.03	1.0000
55 Mn	61442.06 P	651.50	1.05	1.0000
56 Fe	82436.35 P	925.30	1.12	1.0000
59 Co	6109.79 P	52.36	0.86	1.0000
60 Ni	1383.64 P	28.30	2.05	1.0000
63 Cu	15516.40 P	233.60	1.51	1.0000
65 Cu	7559.83 P	73.09	0.97	1.0000
66 Zn	1430.31 P	74.87	5.23	1.0000
72 Ge	96818.69 P	1004.00	1.04	0.0000
72 Ge	44609.64 P	326.50	0.73	0.0000
72 Ge	203708.30 P	1751.00	0.86	0.0000
75 As	639.35 P	17.53	2.74	1.0000
78 Se	175.22 P	7.34	4.19	1.0000
78 Se	81.11 P	6.83	8.43	1.0000
80 Sr	3138.24 P	234.10	7.46	1.0000
80 Sr	17034.09 P	556.30	3.27	1.0000
95 Mo	3096.01 P	35.02	1.13	1.0000
106 (Cd)	180.01 P	18.56	10.31	1.0000
107 Ag	4028.49 P	77.05	1.91	1.0000
108 (Cd)	138.89 P	13.47	9.70	1.0000
111 Cd	1685.97 P	41.67	2.47	1.0000
115 In	1324038.00 A	6932.00	0.52	0.0000
118 Sn	5423.48 P	180.10	3.32	1.0000
121 Sb	6328.31 P	130.20	2.06	1.0000
137 Ba	2328.06 P	139.60	6.00	1.0000
159 Tb	1820559.00 A	17780.00	0.98	0.0000
165 Ho	1818461.00 A	19460.00	1.07	0.0000
205 Tl	15160.28 P	220.10	1.45	1.0000
206 (Pb)	7664.74 P	91.74	1.20	1.0000
207 (Pb)	7014.34 P	72.68	1.04	1.0000
208 Pb	31156.53 P	401.40	1.29	1.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3013436.30	0.47	2775704.50	108.6	70 -	120
45 Sc	510541.06	0.89	500780.41	101.9	70 -	120
45 Sc	97262.66	0.65	95494.08	101.9	70 -	120
45 Sc	1465690.00	1.47	1460980.80	100.3	70 -	120
72 Ge	96818.70	1.04	96219.04	100.6	70 -	120
72 Ge	44609.64	0.73	43611.78	102.3	70 -	120
72 Ge	203708.33	0.86	213204.63	95.5	70 -	120
115 In	1324038.00	0.52	1381264.00	95.9	70 -	120
159 Tb	1820559.10	0.98	1843940.90	98.7	70 -	120
165 Ho	1818460.60	1.07	1844184.90	98.6	70 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\006CAL5.D\006CAL5.D#

--- :Element Failures --- :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass
 ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\007CALB.D\007CALB.D#
 Date Acquired: Nov 11 2011 12:27 pm
 Operator: NBS
 Sample Name: 111111 Standard 3
 Misc Info:
 Vial Number: 1105
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:24 pm
 Sample Type: CalStd
 Total Dil Factor: 1.00

QCISTD Elements

Element	CPS Mean	SD	RSD(%)	Cal Coef
6 Li	3129745.00 A	45260.00	1.45	0.0000
7 (Li)	169858.91 P	576.50	0.34	0.7236
9 Be	529831.50 P	2404.00	0.45	0.9999
11 B	352525.41 P	4097.00	1.16	0.9985
23 Na	1470286.00 A	17010.00	1.16	0.9979
24 Mg	1292682.00 A	17130.00	1.33	1.0000
27 Al	182025.00 P	2356.00	1.29	1.0000
39 K	502725.09 P	1262.00	0.25	0.9983
44 Ca	52265.13 P	789.60	1.51	0.9983
45 Sc	522323.31 P	4813.00	0.92	0.0000
45 Sc	98761.96 P	1402.00	1.42	0.0000
45 Sc	1523925.00 A	17440.00	1.14	0.0000
47 Ti	6316.10 P	62.52	0.99	0.9998
51 V	161320.00 P	2272.00	1.41	0.9994
52 Cr	179336.20 P	1262.00	0.70	1.0000
55 Mn	136966.41 P	806.40	0.59	0.9998
56 Fe	3466730.00 A	34680.00	1.00	1.0000
59 Co	284063.59 P	2599.00	1.02	0.9995
60 Ni	64869.85 P	659.40	1.02	0.9997
63 Cu	172209.41 P	983.40	0.57	0.9999
65 Cu	82567.48 P	346.90	0.42	1.0000
66 Zn	30294.80 P	353.70	1.17	0.9973
72 Ge	98255.19 P	550.50	0.56	0.0000
72 Ge	46262.58 P	34.38	0.07	0.0000
72 Ge	211131.20 P	2095.00	0.99	0.0000
75 As	20258.79 P	48.21	0.24	1.0000
78 Se	8196.34 P	137.70	1.68	1.0000
78 Se	2352.20 P	19.65	0.84	0.9963
88 Sr	152226.41 P	2676.00	1.76	0.9999
88 Sr	853159.19 P	3826.00	0.45	1.0000
95 Mo	152546.09 P	1308.00	0.86	0.9999
106 (Cd)	7779.08 P	43.36	0.56	0.9995
107 Ag	203275.00 P	1362.00	0.67	1.0000
108 (Cd)	5850.30 P	115.70	1.98	0.9966
111 Cd	85595.10 P	417.50	0.49	1.0000
115 In	1359449.00 A	15030.00	1.11	0.0000
118 Sn	233787.30 P	2145.00	0.92	0.9998
121 Sb	303264.81 P	1162.00	0.38	1.0000
137 Ba	112289.00 P	1153.00	1.03	1.0000
159 Tb	1852128.10 A	3859.00	0.21	0.0000
165 Ho	1866389.00 A	18420.00	0.99	0.0000
205 Tl	767163.63 P	3647.00	0.48	1.0000
206 (Pb)	267422.81 P	439.20	0.16	0.9998
207 (Pb)	229702.30 P	967.40	0.42	0.9996
208 Pb	1066559.00 P	3421.00	0.32	0.9997

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3129745.00	1.45	2775704.50	112.8	70 -	120
45 Sc	522323.34	0.92	500780.41	104.3	70 -	120
45 Sc	98761.96	1.42	95494.08	103.4	70 -	120
45 Sc	1523925.40	1.14	1460980.80	104.3	70 -	120
72 Ge	98255.19	0.56	96219.04	102.1	70 -	120
72 Ge	46262.59	0.07	43611.78	106.1	70 -	120
72 Ge	211131.19	0.99	213204.63	99.0	70 -	120
115 In	1359449.00	1.11	1381264.00	98.4	70 -	120
159 Tb	1852128.10	0.21	1843940.90	100.4	70 -	120
165 Ho	1866389.00	0.99	1844184.90	101.2	70 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass
 ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\11K1100.B\009CALB.D\009CALB.D#
 Date Acquired: Nov 11 2011 12:33 pm
 Operator: NBS
 Sample Name: 11111 Standard 4
 Misc Info:
 Vial Number: 1106
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:30 pm
 Sample Type: CalStd
 Total Dil Factor: 1.00

QC ISTD Elements

Element	CPS Mean	SD	RSD(%)	Cal Coef
6 Li	3091825.00 A	34660.00	1.12	0.0000
7 [Li]	169207.09 P	2476.00	1.46	0.7966
9 Be	1184909.00 A	5168.00	0.44	1.0000
11 B	825041.63 A	8516.00	1.03	1.0000
23 Na	2686206.00 A	10730.00	0.40	0.9984
24 Mg	2535966.00 A	10300.00	0.41	1.0000
27 Al	366543.31 P	3283.00	0.90	1.0000
39 K	1039409.00 A	8793.00	0.85	0.9999
44 Ca	104136.20 P	1221.00	1.17	1.0000
45 Sc	526807.38 P	1501.00	0.28	0.0000
45 Sc	100637.20 P	272.50	0.27	0.0000
45 Sc	1546820.00 A	41280.00	2.67	0.0000
47 Ti	12883.09 P	335.40	2.60	1.0000
51 V	324487.59 P	1452.00	0.45	1.0000
52 Cr	360663.69 P	2389.00	0.66	1.0000
55 Mn	247566.30 P	2862.00	1.16	0.9063
56 Fe	6831163.00 A	89870.00	1.32	1.0000
59 Co	505973.59 P	1092.00	0.22	1.0000
60 Ni	128756.60 P	486.80	0.38	1.0000
63 Cu	331294.91 P	1236.00	0.37	0.9984
65 Cu	158678.41 P	595.70	0.38	0.9983
66 Zn	58476.31 P	247.90	0.42	0.9998
72 Ge	100101.50 P	582.20	0.58	0.0000
72 Ge	46752.66 P	94.61	0.20	0.0000
72 Ge	215920.09 P	4942.00	2.29	0.0000
75 As	41314.20 P	335.50	0.81	1.0000
78 Se	16782.86 P	111.00	0.66	1.0000
78 Se	4841.04 P	45.62	0.94	1.0000
88 Sr	308415.19 P	2179.00	0.71	1.0000
88 Sr	1836004.00 A	12020.00	0.66	1.0000
95 Mo	308376.41 P	620.60	0.20	1.0000
106 (Cd)	15606.90 P	85.03	0.54	1.0000
107 Ag	402429.69 P	2133.00	0.53	1.0000
108 (Cd)	11351.61 P	175.20	1.54	1.0000
111 Cd	169137.09 P	1111.00	0.66	1.0000
115 In	1356694.00 A	39030.00	2.88	0.0000
118 Sn	461432.81 P	1252.00	0.27	1.0000
121 Sb	616792.50 P	2811.00	0.46	1.0000
137 Ba	224905.80 P	424.60	0.19	1.0000
159 Tb	1896056.00 A	51090.00	2.69	0.0000
165 Ho	1892444.00 A	47210.00	2.49	0.0000
205 Tl	1621888.00 A	15450.00	0.95	1.0000
206 (Pb)	524239.50 P	2392.00	0.46	1.0000
207 (Pb)	454785.81 P	2844.00	0.63	1.0000
208 Pb	2164409.00 A	4337.00	0.20	1.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3091824.50	1.12	2775704.50	111.4	70 -	120
45 Sc	526807.44	0.28	500780.41	105.2	70 -	120
45 Sc	100637.22	0.27	95494.08	105.4	70 -	120
45 Sc	1546819.60	2.67	1460980.80	105.9	70 -	120
72 Ge	100101.52	0.58	96219.04	104.0	70 -	120
72 Ge	46752.66	0.20	43611.78	107.2	70 -	120
72 Ge	215920.11	2.29	213204.63	101.3	70 -	120
115 In	1356693.50	2.88	1381264.00	98.2	70 -	120
159 Tb	1896055.90	2.69	1843940.90	102.8	70 -	120
165 Ho	1892443.90	2.49	1844184.90	102.6	70 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\11K1100.B\009CALB.D\009CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
 Analytes: Pass
 ISTD: Pass

QCS QC Report

Data File: C:\ICPCHEM\1\DATA\11K1100.B\009_QCS.D\009_QCS.D#
 Date Acquired: Nov 11 2011 12:39 pm
 Operator: NBS
 Sample Name: ICV 111111
 Misc Info:
 Vial Number: 1107
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: QCS
 Total Dil Factor: 1.00

QC Elements	Conc.	RSD(%)	Expected QC	Range(%)	Flag
7 (Li)	----- ug/l	-----	100.00	90 - 110	
9 Be	107.60 ug/l	0.95	100.00	90 - 110	
11 B	105.70 ug/l	0.67	100.00	90 - 110	
23 Na	2518.00 ug/l	0.81	2500.00	90 - 110	
24 Mg	2533.00 ug/l	0.67	2500.00	90 - 110	
27 Al	2547.00 ug/l	1.32	2500.00	90 - 110	
39 K	2615.00 ug/l	0.71	2500.00	90 - 110	
44 Ca	2519.00 ug/l	0.47	2500.00	90 - 110	
47 Ti	97.29 ug/l	0.90	100.00	90 - 110	
51 V	103.40 ug/l	0.55	100.00	90 - 110	
52 Cr	106.50 ug/l	0.63	100.00	90 - 110	
55 Mn	106.70 ug/l	0.21	100.00	90 - 110	
56 Fe	2516.00 ug/l	1.06	2500.00	90 - 110	
59 Co	104.60 ug/l	0.25	100.00	90 - 110	
60 Ni	104.70 ug/l	0.28	100.00	90 - 110	
63 Cu	102.50 ug/l	1.70	100.00	90 - 110	
65 Cu	102.20 ug/l	1.45	100.00	90 - 110	
66 Zn	104.10 ug/l	1.10	100.00	90 - 110	
75 As	98.86 ug/l	1.38	100.00	90 - 110	
78 Se	103.60 ug/l	1.81	100.00	90 - 110	
78 Se	104.10 ug/l	2.03	100.00	90 - 110	
88 Sr	101.20 ug/l	1.63	100.00	90 - 110	
88 Sr	104.30 ug/l	0.60	100.00	90 - 110	
95 Mo	96.15 ug/l	1.35	100.00	90 - 110	
106 (Cd)	----- ug/l	-----	100.00	90 - 110	
107 Ag	46.26 ug/l	0.71	50.00	90 - 110	
108 (Cd)	----- ug/l	-----	100.00	90 - 110	
111 Cd	103.60 ug/l	0.47	100.00	90 - 110	
118 Sn	43.82 ug/l	0.17	50.00	90 - 110	Fail
121 Sb	102.70 ug/l	0.18	100.00	90 - 110	
137 Ba	99.56 ug/l	0.34	100.00	90 - 110	
205 Tl	106.40 ug/l	1.20	100.00	90 - 110	
206 (Pb)	----- ug/l	-----	100.00	90 - 110	
207 (Pb)	----- ug/l	-----	100.00	90 - 110	
208 Pb	106.30 ug/l	0.89	100.00	90 - 110	

ISTD Elements	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3157481.00	0.39	2775704.50	113.8	70 - 120	
45 Sc	523431.13	0.16	500780.41	104.5	70 - 120	
45 Sc	100384.52	0.40	95494.08	105.1	70 - 120	
45 Sc	1532510.60	0.50	1460980.80	104.9	70 - 120	
72 Ge	99727.78	0.25	96219.04	103.6	70 - 120	
72 Ge	46938.75	0.91	43611.78	107.6	70 - 120	
72 Ge	212917.78	0.32	213204.63	99.9	70 - 120	
115 In	1371120.50	0.09	1381264.00	99.3	70 - 120	
159 Tb	1873353.00	0.83	1843940.90	101.6	70 - 120	
165 Ho	1868336.50	1.05	1844184.90	101.3	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K1100.B\004CALB.D\004CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
 Analytes: Fail
 ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\012_CCB.D\012_CCB.D#
 Date Acquired: Nov 11 2011 12:57 pm
 Operator: NBS
 Sample Name: ICB 111111
 Misc Info:
 Vial Number: 1102
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Elements	Element	Conc.	RSD(%)	High Limit	Flag
	7 (Li)	----- ug/l	-----	#VALUE!	
	9 Be	0.00 ug/l	64.25	0.12	
	11 B	0.03 ug/l	45.15	15.00	
	23 Na	7.71 ug/l	8.18	77.10	
	24 Mg	0.10 ug/l	55.44	7.50	
	27 Al	0.09 ug/l	51.89	3.96	
	39 K	-16.07 ug/l	31.35	19.20	
	44 Ca	2.26 ug/l	102.26	90.00	
	47 Ti	0.02 ug/l	221.48	0.78	
	51 V	0.57 ug/l	2.59	0.21	Fail
	52 Cr	0.01 ug/l	92.18	0.12	
	55 Mn	0.00 ug/l	249.24	0.18	
	56 Fe	0.25 ug/l	4.89	40.80	
	59 Co	-0.25 ug/l	1.58	0.09	
	60 Ni	0.00 ug/l	280.61	0.48	
	63 Cu	-0.13 ug/l	3.22	0.39	
	65 Cu	-0.13 ug/l	16.74	0.39	
	66 Zn	-0.01 ug/l	406.21	6.90	
	75 As	-0.09 ug/l	15.13	0.27	
	78 Se	0.01 ug/l	58.10	0.30	
	78 Se	0.05 ug/l	139.53	0.30	
	88 Sr	0.00 ug/l	1034.40	0.03	
	88 Sr	0.00 ug/l	24.09	0.03	
	95 Mo	0.03 ug/l	16.72	0.21	
	106 (Cd)	----- ug/l	-----	#VALUE!	
	107 Ag	0.00 ug/l	50.39	0.09	
	108 (Cd)	----- ug/l	-----	#VALUE!	
	111 Cd	0.01 ug/l	58.78	0.06	
	118 Sn	0.03 ug/l	55.51	0.30	
	121 Sb	0.13 ug/l	5.57	0.03	Fail
	137 Ba	0.01 ug/l	116.79	0.12	
	205 Tl	0.01 ug/l	38.28	0.03	
	206 (Pb)	----- ug/l	-----	#VALUE!	
	207 (Pb)	----- ug/l	-----	#VALUE!	
	208 Pb	-0.20 ug/l	0.78	0.33	

ISTD Elements	Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
	6 Li	3073279.00	0.84	2775704.50	110.7	70 - 120	
	45 Sc	545909.38	3.12	500780.41	109.0	70 - 120	
	45 Sc	100165.70	0.44	95494.08	104.9	70 - 120	
	45 Sc	1499557.30	0.22	1460980.80	102.6	70 - 120	
	72 Ge	101795.60	2.62	96219.04	105.8	70 - 120	
	72 Ge	46734.16	0.18	43611.78	107.2	70 - 120	
	72 Ge	210654.83	0.54	213204.63	98.8	70 - 120	
	115 In	1336860.30	0.89	1381264.00	96.8	70 - 120	
	159 Tb	1857728.00	1.11	1843940.90	100.7	70 - 120	
	165 Ho	1856236.60	1.27	1844184.90	100.7	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
 Analytes: Fail
 ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\013_CCV.D\013_CCV.D#
 Date Acquired: Nov 11 2011 01:03 pm
 Operator: NBS
 Sample Name: CCV 111111
 Misc Info:
 Vial Number: 1105
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	Expected QC	Range(%)	Flag
7 (Li)	----- ug/l	-----	50.00	90 - 110	
9 Be	45.86 ug/l	1.99	50.00	90 - 110	
11 B	43.69 ug/l	2.15	50.00	90 - 110	Fail
23 Na	1276.00 ug/l	1.53	1250.00	90 - 110	
24 Mg	2559.00 ug/l	1.05	2500.00	90 - 110	
27 Al	1001.00 ug/l	1.70	1000.00	90 - 110	
39 K	917.90 ug/l	1.26	1000.00	90 - 110	
44 Ca	2498.00 ug/l	1.41	2500.00	90 - 110	
47 Ti	49.40 ug/l	0.95	50.00	90 - 110	
51 V	50.61 ug/l	1.18	50.00	90 - 110	
52 Cr	50.27 ug/l	1.38	50.00	90 - 110	
55 Mn	54.78 ug/l	1.56	50.00	90 - 110	
56 Fe	1027.00 ug/l	1.77	1000.00	90 - 110	
59 Co	50.74 ug/l	0.93	50.00	90 - 110	
60 Ni	50.88 ug/l	1.81	50.00	90 - 110	
63 Cu	50.81 ug/l	0.58	50.00	90 - 110	
65 Cu	50.69 ug/l	0.50	50.00	90 - 110	
66 Zn	51.32 ug/l	0.03	50.00	90 - 110	
75 As	49.12 ug/l	0.62	50.00	90 - 110	
78 Se	50.32 ug/l	1.71	50.00	90 - 110	
78 Se	49.06 ug/l	1.10	50.00	90 - 110	
88 Sr	49.93 ug/l	0.31	50.00	90 - 110	
88 Sr	47.83 ug/l	0.44	50.00	90 - 110	
95 Mo	50.08 ug/l	0.70	50.00	90 - 110	
106 (Cd)	----- ug/l	-----	50.00	90 - 110	
107 Ag	24.63 ug/l	0.57	25.00	90 - 110	
108 (Cd)	----- ug/l	-----	50.00	90 - 110	
111 Cd	50.07 ug/l	1.49	50.00	90 - 110	
118 Sn	50.35 ug/l	0.28	50.00	90 - 110	
121 Sb	49.48 ug/l	0.77	50.00	90 - 110	
137 Ba	49.18 ug/l	0.66	50.00	90 - 110	
205 Tl	48.89 ug/l	0.40	50.00	90 - 110	
206 (Pb)	----- ug/l	-----	50.00	90 - 110	
207 (Pb)	----- ug/l	-----	50.00	90 - 110	
208 Pb	50.31 ug/l	0.14	50.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3009330.80	0.85	2775704.50	108.4	70 - 120	
45 Sc	502422.56	3.92	500780.41	100.3	70 - 120	
45 Sc	98428.88	1.42	95494.08	103.1	70 - 120	
45 Sc	1480640.80	1.02	1460980.80	101.3	70 - 120	
72 Ge	97237.93	2.52	96219.04	101.1	70 - 120	
72 Ge	46537.16	0.17	43611.78	106.7	70 - 120	
72 Ge	206334.70	0.20	213204.63	96.8	70 - 120	
115 In	1333758.10	0.36	1381264.00	96.6	70 - 120	
159 Tb	1832635.60	0.51	1843940.90	99.4	70 - 120	
165 Ho	1824652.90	0.58	1844184.90	98.9	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\014_CCB.D\014_CCB.D#
 Date Acquired: Nov 11 2011 01:09 pm
 Operator: NBS
 Sample Name: CCB 111111
 Misc Info:
 Vial Number: 1102
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Elements	Element	Conc.	RSD(%)	High Limit	Flag
	7 (Li)	----- ug/l	-----	#VALUE!	
	9 Be	0.00 ug/l	75.05	0.12	
	11 B	0.19 ug/l	2.24	15.00	
	23 Na	3.09 ug/l	28.12	77.10	
	24 Mg	0.17 ug/l	59.53	7.50	
	27 Al	0.11 ug/l	49.92	3.96	
	39 K	-13.77 ug/l	41.47	19.20	
	44 Ca	1.49 ug/l	82.56	90.00	
	47 Ti	0.00 ug/l	584.34	0.78	
	51 V	0.76 ug/l	2.01	0.21	Fail
	52 Cr	0.02 ug/l	22.00	0.12	
	55 Mn	0.01 ug/l	26.62	0.18	
	56 Fe	0.44 ug/l	10.30	40.80	
	59 Co	-0.27 ug/l	0.49	0.09	
	60 Ni	0.00 ug/l	169.21	0.48	
	63 Cu	-0.16 ug/l	12.22	0.39	
	65 Cu	-0.16 ug/l	4.20	0.39	
	66 Zn	0.03 ug/l	67.54	6.90	
	75 As	-0.03 ug/l	60.04	0.27	
	78 Se	0.10 ug/l	23.77	0.30	
	78 Se	0.02 ug/l	138.81	0.30	
	88 Sr	0.00 ug/l	574.89	0.03	
	88 Sr	0.00 ug/l	33.45	0.03	
	95 Mo	0.10 ug/l	2.35	0.21	
	106 (Cd)	----- ug/l	-----	#VALUE!	
	107 Ag	0.00 ug/l	6.78	0.09	
	108 (Cd)	----- ug/l	-----	#VALUE!	
	111 Cd	0.01 ug/l	137.32	0.06	
	118 Sn	0.06 ug/l	31.67	0.30	
	121 Sb	0.69 ug/l	6.56	0.03	Fail
	137 Ba	0.01 ug/l	127.23	0.12	
	205 Tl	0.02 ug/l	7.09	0.03	
	206 (Pb)	----- ug/l	-----	#VALUE!	
	207 (Pb)	----- ug/l	-----	#VALUE!	
	208 Pb	-0.21 ug/l	0.72	0.33	

ISTD Elements	Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
	6 Li	2980962.00	0.72	2775704.50	107.4	70 - 120	
	45 Sc	505025.28	3.19	500780.41	100.8	70 - 120	
	45 Sc	97675.82	0.75	95494.08	102.3	70 - 120	
	45 Sc	1485366.30	0.36	1460980.80	101.7	70 - 120	
	72 Ge	97202.46	2.05	96219.04	101.0	70 - 120	
	72 Ge	45665.85	0.21	43611.78	104.7	70 - 120	
	72 Ge	205716.23	0.30	213204.63	96.5	70 - 120	
	115 In	1321174.40	0.50	1381264.00	95.6	70 - 120	
	159 Tb	1807747.90	0.40	1843940.90	98.0	70 - 120	
	165 Ho	1813776.00	0.73	1844184.90	98.4	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
 Analytes: Fail
 ISTD: Pass

ICS-A QC Report

Data File: C:\ICPCHEM\1\DATA\11K1100.B\015ICSA.D\015ICSA.D#
 Date Acquired: Nov 11 2011 01:15 pm
 Acq. Method: 62A1111A.M
 Operator: NBS
 Sample Name: ICSA 111111
 Misc Info:
 Vial Number: 2102
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal. Update: Nov 11 2011 12:36 pm
 Sample Type: ICSA
 Dilution Factor: 1.00

Data Results:
 Analytes: Pass
 ISTD: Pass

QC Elements						
Element	IS Ref	Tune	Conc.	RSD(%)	High Limit ppb	Flag
7 (Li)	---	3	----- ug/l	-----		
9 Be	45	3	0.83 ug/l	2.55		
11 B	45	3	1.56 ug/l	2.76		
23 Na	45	2	93250.00 ug/l	0.74		
24 Mg	45	2	91170.00 ug/l	1.03		
27 Al	45	2	104800.00 ug/l	1.31		
39 K	45	2	95010.00 ug/l	0.86		
44 Ca	45	2	101900.00 ug/l	1.03		
47 Ti	45	2	1961.00 ug/l	0.73		
51 V	45	2	2.53 ug/l	1.39		
52 Cr	45	2	2.35 ug/l	1.68		
55 Mn	45	2	7.50 ug/l	0.84		
56 Fe	45	2	92610.00 ug/l	0.44		
59 Co	45	2	20.49 ug/l	0.58		
60 Ni	45	2	3.86 ug/l	0.68		
63 Cu	72	2	1.60 ug/l	2.77		
65 Cu	72	2	1.70 ug/l	4.01		
66 Zn	72	2	5.11 ug/l	1.25		
75 As	72	2	1.55 ug/l	3.09		
78 Se	72	1	1.07 ug/l	5.94		
78 Se	72	2	1.16 ug/l	9.00		
88 Sr	72	2	1.41 ug/l	4.62		
88 Sr	72	3	1.37 ug/l	1.32		
95 Mo	72	3	1834.00 ug/l	1.74		
106 (Cd)	---	3	----- ug/l	-----		
107 Ag	115	3	1.97 ug/l	1.05		
108 (Cd)	---	3	----- ug/l	-----		
111 Cd	115	3	2.42 ug/l	3.67		
118 Sn	115	3	1.18 ug/l	1.50		
121 Sb	115	3	1.93 ug/l	2.34		
137 Ba	115	3	3.88 ug/l	2.04		
205 Tl	159	3	1.62 ug/l	1.90		
206 (Pb)	---	3	----- ug/l	-----		
207 (Pb)	---	3	----- ug/l	-----		
208 Pb	159	3	3.50 ug/l	0.41		

ISTD Elements							
Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	2777926	0.73	2775705	100.1	70 - 120	
45 Sc	1	527513	3.31	500780	105.3	70 - 120	
45 Sc	2	94664	0.69	95494	99.1	70 - 120	
45 Sc	3	1465735	0.50	1460981	100.3	70 - 120	
72 Ge	1	98457	2.56	95219	102.3	70 - 120	
72 Ge	2	46798	1.22	43612	107.3	70 - 120	
72 Ge	3	216093	0.53	213205	101.4	70 - 120	
115 In	3	1235992	0.56	1381264	89.5	70 - 120	
159 Tb	3	1778881	0.42	1843941	96.5	70 - 120	
165 Ho	3	1783575	1.04	1844185	96.7	70 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
 Tune File# 2 c:\icpchem\1\7500\he.u
 Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\11K1100.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

ICS-AB QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\016ICSB.D\016ICSB.D#
 Date Acquired: Nov 11 2011 01:21 pm
 Acq. Method: 62A1111A.M
 Operator: NBS
 Sample Name: ICSAB 111111
 Misc Info:
 Vial Number: 2103
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal. Update: Nov 11 2011 12:36 pm
 Sample Type: ICSAB
 Dilution Factor: 1.00

Data Results:
 Analytes: Pass
 ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	%Recovery	QC Range(%)	Flag
7 {Li}	---	3	---	---	---	---	---	---
9 Be	45	3	246.60	1.11	250	98.6	80 - 120	
11 B	45	3	1.63	0.34	---	---	---	
23 Na	45	2	96100.00	0.19	---	---	---	
24 Mg	45	2	93890.00	0.39	---	---	---	
27 Al	45	2	107500.00	1.06	---	---	---	
39 K	45	2	97710.00	0.66	---	---	---	
44 Ca	45	2	105500.00	1.05	---	---	---	
47 Ti	45	2	2014.00	0.31	2000	100.7	80 - 120	
51 V	45	2	267.30	0.98	250	106.9	80 - 120	
52 Cr	45	2	270.40	2.94	250	108.2	80 - 120	
55 Mn	45	2	264.30	0.56	250	105.7	80 - 120	
56 Fe	45	2	94360.00	0.20	---	---	---	
59 Co	45	2	282.40	0.78	250	113.0	80 - 120	
60 Ni	45	2	481.90	0.90	500	96.4	80 - 120	
63 Cu	72	2	218.20	1.17	250	87.3	80 - 120	
65 Cu	72	2	218.60	0.91	250	87.4	80 - 120	
66 Zn	72	2	513.60	0.37	500	102.7	80 - 120	
75 As	72	2	239.20	0.52	250	95.7	80 - 120	
78 Se	72	1	251.50	0.86	250	100.6	80 - 120	
78 Se	72	2	233.50	0.80	250	93.4	80 - 120	
88 Sr	72	2	1.62	0.60	---	---	---	
88 Sr	72	3	1.51	0.87	---	---	---	
95 Mo	72	3	2131.00	0.52	2000	106.6	80 - 120	
106 {Cd}	---	3	---	---	---	---	---	
107 Ag	115	3	535.90	1.10	500	107.2	80 - 120	
108 {Cd}	---	3	---	---	---	---	---	
111 Cd	115	3	495.00	0.98	500	99.0	80 - 120	
118 Sn	115	3	1.45	2.79	---	---	---	
121 Sb	115	3	274.60	0.82	250	109.8	80 - 120	
137 Ba	115	3	271.00	0.98	250	108.4	80 - 120	
205 Tl	159	3	252.50	0.03	250	101.0	80 - 120	
206 {Pb}	---	3	---	---	---	---	---	
207 {Pb}	---	3	---	---	---	---	---	
208 Pb	159	3	502.00	0.13	500	100.4	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	2732517	0.30	2775705	98.4	70 - 120	
45 Sc	1	511020	0.99	500780	102.0	70 - 120	
45 Sc	2	93932	0.16	95494	98.4	70 - 120	
45 Sc	3	1418244	0.91	1460981	97.1	70 - 120	
72 Ge	1	96432	0.78	96219	100.2	70 - 120	
72 Ge	2	46185	0.98	43613	105.9	70 - 120	
72 Ge	3	209601	0.65	213205	98.3	70 - 120	
115 In	3	1203221	0.93	1381264	87.1	70 - 120	
159 Tb	3	1775149	0.42	1843941	96.3	70 - 120	
165 Ho	3	1779108	0.39	1844185	96.5	70 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
 Tune File# 2 c:\icpchem\1\7500\he.u
 Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\018_CCV.D\018_CCV.D#
 Date Acquired: Nov 11 2011 01:33 pm
 Operator: NBS
 Sample Name: CCV 111111
 Misc Info:
 Vial Number: 1105
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Elements	Conc.	RSD(%)	Expected QC	Range(%)	Flag
Element					
7 (Li)	----- ug/l	-----	50.00	90 - 110	
9 Be	45.54 ug/l	0.43	50.00	90 - 110	
11 B	42.52 ug/l	0.69	50.00	90 - 110	Fail
23 Na	1232.00 ug/l	0.90	1250.00	90 - 110	
24 Mg	2553.00 ug/l	1.13	2500.00	90 - 110	
27 Al	1002.00 ug/l	1.24	1000.00	90 - 110	
39 K	910.10 ug/l	0.77	1000.00	90 - 110	
44 Ca	2506.00 ug/l	0.99	2500.00	90 - 110	
47 Ti	49.11 ug/l	2.38	50.00	90 - 110	
51 V	50.62 ug/l	1.42	50.00	90 - 110	
52 Cr	49.48 ug/l	1.20	50.00	90 - 110	
55 Mn	54.25 ug/l	1.47	50.00	90 - 110	
56 Fe	1014.00 ug/l	0.73	1000.00	90 - 110	
59 Co	50.51 ug/l	0.59	50.00	90 - 110	
60 Ni	50.70 ug/l	1.36	50.00	90 - 110	
63 Cu	49.70 ug/l	0.40	50.00	90 - 110	
65 Cu	49.73 ug/l	0.19	50.00	90 - 110	
66 Zn	49.96 ug/l	0.97	50.00	90 - 110	
75 As	48.64 ug/l	0.06	50.00	90 - 110	
78 Se	48.54 ug/l	0.17	50.00	90 - 110	
78 Se	48.82 ug/l	0.30	50.00	90 - 110	
88 Sr	49.77 ug/l	0.41	50.00	90 - 110	
88 Sr	48.29 ug/l	0.56	50.00	90 - 110	
95 Mo	51.00 ug/l	1.55	50.00	90 - 110	
106 (Cd)	----- ug/l	-----	50.00	90 - 110	
107 Ag	25.03 ug/l	0.97	25.00	90 - 110	
108 (Cd)	----- ug/l	-----	50.00	90 - 110	
111 Cd	49.94 ug/l	1.03	50.00	90 - 110	
118 Sn	51.03 ug/l	1.26	50.00	90 - 110	
121 Sb	50.47 ug/l	0.55	50.00	90 - 110	
137 Ba	50.01 ug/l	0.80	50.00	90 - 110	
205 Tl	48.64 ug/l	0.31	50.00	90 - 110	
206 (Pb)	----- ug/l	-----	50.00	90 - 110	
207 (Pb)	----- ug/l	-----	50.00	90 - 110	
208 Pb	50.34 ug/l	1.15	50.00	90 - 110	

ISTD Elements	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3132762.00	0.73	2775704.50	112.9	70 - 120	
45 Sc	534639.31	0.21	500780.41	106.8	70 - 120	
45 Sc	99077.84	0.49	95494.08	103.8	70 - 120	
45 Sc	1513729.60	0.46	1460980.80	103.6	70 - 120	
72 Ge	102211.11	0.47	96219.04	106.2	70 - 120	
72 Ge	47244.57	0.27	43611.78	108.3	70 - 120	
72 Ge	214737.86	0.60	213204.63	100.7	70 - 120	
115 In	1389034.00	1.09	1381264.00	100.6	70 - 120	
159 Tb	1908915.90	0.41	1843940.90	103.5	70 - 120	
165 Ho	1921136.40	0.48	1844184.90	104.2	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

1 : Element Failures 0 : Max. Number of Failures Allowed
 0 : ISTD Failures 0 : Max. Number of ISTD Failures Allowed

Data Results:
 Analytes: Fail
 ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\020_CCB.D\020_CCB.D#
 Date Acquired: Nov 11 2011 01:46 pm
 Operator: NBS
 Sample Name: CCB 111111
 Misc Info:
 Vial Number: 1102
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Elements	Element	Conc.	RSD(%)	High Limit	Flag
	7 (Li)	0.00 ug/l	342.89	0.12	
	9 Be	-0.21 ug/l	27.87	15.00	
	11 B	-22.95 ug/l	2.00	77.10	
	23 Na	0.32 ug/l	24.61	7.50	
	24 Mg	0.31 ug/l	30.94	3.96	
	27 Al	-13.04 ug/l	28.54	19.20	
	39 K	-2.47 ug/l	54.66	90.00	
	44 Ca	0.02 ug/l	115.52	0.78	
	47 Ti	1.17 ug/l	4.59	0.21	Fail
	51 V	0.01 ug/l	119.76	0.12	
	52 Cr	0.00 ug/l	605.19	0.18	
	55 Mn	0.83 ug/l	6.77	40.80	
	56 Fe	-0.30 ug/l	0.59	0.09	
	59 Co	0.00 ug/l	211.25	0.48	
	60 Ni	-0.31 ug/l	1.69	0.39	
	63 Cu	-0.31 ug/l	4.87	0.39	
	65 Cu	0.00 ug/l	866.90	6.90	
	66 Zn	-0.07 ug/l	27.14	0.27	
	75 As	0.03 ug/l	41.10	0.30	
	78 Se	0.07 ug/l	100.62	0.30	
	78 Se	0.00 ug/l	114.02	0.03	
	88 Sr	0.00 ug/l	18.44	0.03	
	88 Sr	0.09 ug/l	4.01	0.21	
	95 Mo	----- ug/l	-----	#VALUE!	
	106 (Cd)	0.01 ug/l	12.14	0.09	
	107 Ag	----- ug/l	-----	#VALUE!	
	108 (Cd)	0.00 ug/l	1077.10	0.06	
	111 Cd	0.03 ug/l	30.18	0.30	
	118 Sn	0.29 ug/l	4.29	0.03	Fail
	121 Sb	0.01 ug/l	115.49	0.12	
	137 Ba	0.03 ug/l	19.13	0.03	
	205 Tl	----- ug/l	-----	#VALUE!	
	206 (Pb)	----- ug/l	-----	#VALUE!	
	207 (Pb)	----- ug/l	-----	#VALUE!	
	208 Pb	-0.21 ug/l	1.63	0.33	

ISTD Elements	Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
	6 Li	3042523.00	0.11	2775704.50	109.6	70 - 120	
	45 Sc	529492.56	0.66	500780.41	105.7	70 - 120	
	45 Sc	97690.27	0.93	95494.08	102.3	70 - 120	
	45 Sc	1482243.40	0.75	1460980.80	101.5	70 - 120	
	72 Ge	101254.01	0.60	96219.04	105.2	70 - 120	
	72 Ge	46065.66	0.31	43611.78	105.6	70 - 120	
	72 Ge	210454.86	0.84	213204.63	98.7	70 - 120	
	115 In	1353362.30	0.71	1381264.00	98.0	70 - 120	
	159 Tb	1859786.10	0.52	1843940.90	100.9	70 - 120	
	165 Ho	1863063.90	0.81	1844184.90	101.0	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
 Analytes: Fail
 ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\032_CCV.D\032_CCV.D#
 Date Acquired: Nov 11 2011 03:05 pm
 Operator: NBS
 Sample Name: CCV 111111
 Misc Info:
 Vial Number: 1105
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Elements	Element	Conc.	RSD(%)	Expected QC	Range(%)	Flag
	7 (Li)	----- ug/l	-----	50.00	90 - 110	
	9 Be	45.98 ug/l	0.90	50.00	90 - 110	
	11 B	43.38 ug/l	1.83	50.00	90 - 110	Fail
	23 Na	1250.00 ug/l	2.32	1250.00	90 - 110	
	24 Mg	2541.00 ug/l	1.13	2500.00	90 - 110	
	27 Al	992.10 ug/l	1.33	1000.00	90 - 110	
	39 K	905.50 ug/l	1.76	1000.00	90 - 110	
	44 Ca	2473.00 ug/l	1.61	2500.00	90 - 110	
	47 Ti	49.01 ug/l	0.71	50.00	90 - 110	
	51 V	50.64 ug/l	0.61	50.00	90 - 110	
	52 Cr	49.61 ug/l	0.94	50.00	90 - 110	
	55 Mn	54.01 ug/l	0.87	50.00	90 - 110	
	56 Fe	1013.00 ug/l	1.52	1000.00	90 - 110	
	59 Co	50.36 ug/l	0.94	50.00	90 - 110	
	60 Ni	51.02 ug/l	1.41	50.00	90 - 110	
	63 Cu	49.96 ug/l	0.98	50.00	90 - 110	
	65 Cu	49.87 ug/l	0.48	50.00	90 - 110	
	66 Zn	50.14 ug/l	1.34	50.00	90 - 110	
	75 As	48.56 ug/l	0.79	50.00	90 - 110	
	78 Se	47.94 ug/l	1.13	50.00	90 - 110	
	78 Se	48.27 ug/l	2.37	50.00	90 - 110	
	88 Sr	50.07 ug/l	0.24	50.00	90 - 110	
	88 Sr	46.85 ug/l	0.80	50.00	90 - 110	
	95 Mo	48.88 ug/l	0.75	50.00	90 - 110	
	106 (Cd)	----- ug/l	-----	50.00	90 - 110	
	107 Ag	24.26 ug/l	1.57	25.00	90 - 110	
	108 (Cd)	----- ug/l	-----	50.00	90 - 110	
	111 Cd	49.33 ug/l	0.71	50.00	90 - 110	
	118 Sn	50.24 ug/l	1.40	50.00	90 - 110	
	121 Sb	49.54 ug/l	1.18	50.00	90 - 110	
	137 Ba	49.63 ug/l	2.49	50.00	90 - 110	
	205 Tl	48.65 ug/l	0.58	50.00	90 - 110	
	206 (Pb)	----- ug/l	-----	50.00	90 - 110	
	207 (Pb)	----- ug/l	-----	50.00	90 - 110	
	208 Pb	49.96 ug/l	0.90	50.00	90 - 110	

ISTD Elements	Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
	6 Li	3188763.30	1.52	2775704.50	114.9	70 - 120	
	45 Sc	530164.38	0.11	500780.41	105.9	70 - 120	
	45 Sc	96337.35	1.21	95494.08	100.9	70 - 120	
	45 Sc	1476239.00	1.18	1460980.80	101.0	70 - 120	
	72 Ge	102958.30	0.45	96219.04	107.0	70 - 120	
	72 Ge	45995.51	1.09	43611.70	105.5	70 - 120	
	72 Ge	211979.86	0.56	213204.63	99.4	70 - 120	
	115 In	1355180.90	1.54	1381264.00	98.1	70 - 120	
	159 Tb	1863114.30	0.80	1843940.90	101.0	70 - 120	
	165 Ho	1880561.90	0.45	1844184.90	102.0	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
 Analytes: Fail
 ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\034_CCB.D\034_CCB.D#
 Date Acquired: Nov 11 2011 03:17 pm
 Operator: NBS
 Sample Name: CCB 111111
 Misc Info:
 Vial Number: 1102
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Elements	Element	Conc.	RSD(%)	High Limit	Flag
	7 (Li)	----- ug/l	-----	#VALUE!	
	9 Be	0.00 ug/l	69.30	0.12	
	11 B	-0.21 ug/l	1.18	15.00	
	23 Na	-12.29 ug/l	7.14	77.10	
	24 Mg	0.25 ug/l	17.30	7.50	
	27 Al	0.17 ug/l	52.39	3.96	
	39 K	-13.38 ug/l	34.73	19.20	
	44 Ca	-0.64 ug/l	345.23	90.00	
	47 Ti	0.01 ug/l	249.07	0.78	
	51 V	1.42 ug/l	3.15	0.21	Fail
	52 Cr	0.03 ug/l	9.62	0.12	
	55 Mn	0.01 ug/l	149.75	0.18	
	56 Fe	0.83 ug/l	6.84	40.80	
	59 Co	-0.29 ug/l	0.85	0.09	
	60 Ni	-0.01 ug/l	222.72	0.48	
	63 Cu	-0.38 ug/l	4.80	0.39	
	65 Cu	-0.41 ug/l	3.73	0.39	
	66 Zn	0.00 ug/l	2628.40	6.90	
	75 As	0.07 ug/l	32.28	0.27	
	78 Se	0.02 ug/l	97.30	0.30	
	78 Se	0.10 ug/l	82.67	0.30	
	88 Sr	0.00 ug/l	540.84	0.03	
	88 Sr	0.00 ug/l	24.02	0.03	
	95 Mo	0.03 ug/l	20.10	0.21	
	106 (Cd)	----- ug/l	-----	#VALUE!	
	107 Ag	0.00 ug/l	72.34	0.09	
	108 (Cd)	----- ug/l	-----	#VALUE!	
	111 Cd	0.00 ug/l	426.65	0.06	
	118 Sn	0.05 ug/l	13.48	0.30	
	121 Sb	0.29 ug/l	11.14	0.03	Fail
	137 Ba	0.02 ug/l	76.66	0.12	
	205 Tl	0.01 ug/l	1.73	0.03	
	206 (Pb)	----- ug/l	-----	#VALUE!	
	207 (Pb)	----- ug/l	-----	#VALUE!	
	208 Pb	-0.25 ug/l	1.69	0.33	

ISTD Elements	Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
	6 Li	3085838.80	0.28	2775704.50	111.2	70 - 120	
	45 Sc	543008.13	0.74	500780.41	108.4	70 - 120	
	45 Sc	96730.10	0.69	95494.08	101.3	70 - 120	
	45 Sc	1456388.00	1.14	1460980.80	99.7	70 - 120	
	72 Ge	104225.84	0.21	96219.04	108.3	70 - 120	
	72 Ge	45874.70	1.25	43611.78	105.2	70 - 120	
	72 Ge	211968.23	0.39	213204.63	99.4	70 - 120	
	115 In	1335750.50	0.67	1381264.00	96.7	70 - 120	
	159 Tb	1825624.90	0.43	1843940.90	99.0	70 - 120	
	165 Ho	1821355.50	0.60	1844184.90	98.8	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\046_CCV.D\046_CCV.D#
 Date Acquired: Nov 11 2011 04:30 pm
 Operator: NBS
 Sample Name: CCV 111111
 Misc Info:
 Vial Number: 1105
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Elements	Element	Conc.	RSD(%)	Expected QC	Range(%)	Flag
	7 (Li)	----- ug/l	-----	50.00	90 - 110	
	9 Be	45.70 ug/l	1.26	50.00	90 - 110	
	11 B	42.89 ug/l	1.19	50.00	90 - 110	Fail
	23 Na	1254.00 ug/l	0.41	1250.00	90 - 110	
	24 Mg	2547.00 ug/l	0.59	2500.00	90 - 110	
	27 Al	995.00 ug/l	1.68	1000.00	90 - 110	
	39 K	893.20 ug/l	1.01	1000.00	90 - 110	Fail
	44 Ca	2454.00 ug/l	1.15	2500.00	90 - 110	
	47 Ti	49.64 ug/l	0.77	50.00	90 - 110	
	51 V	51.07 ug/l	0.56	50.00	90 - 110	
	52 Cr	49.58 ug/l	1.32	50.00	90 - 110	
	55 Mn	53.75 ug/l	1.23	50.00	90 - 110	
	56 Fe	1008.00 ug/l	1.04	1000.00	90 - 110	
	59 Co	50.27 ug/l	0.38	50.00	90 - 110	
	60 Ni	50.83 ug/l	0.09	50.00	90 - 110	
	63 Cu	49.08 ug/l	0.21	50.00	90 - 110	
	65 Cu	49.49 ug/l	0.52	50.00	90 - 110	
	66 Zn	49.79 ug/l	0.97	50.00	90 - 110	
	75 As	48.81 ug/l	0.50	50.00	90 - 110	
	78 Se	46.71 ug/l	1.36	50.00	90 - 110	
	78 Se	47.88 ug/l	0.76	50.00	90 - 110	
	88 Sr	50.09 ug/l	1.50	50.00	90 - 110	
	88 Sr	46.19 ug/l	0.77	50.00	90 - 110	
	95 Mo	48.00 ug/l	1.20	50.00	90 - 110	
	106 (Cd)	----- ug/l	-----	50.00	90 - 110	
	107 Ag	24.50 ug/l	0.88	25.00	90 - 110	
	108 (Cd)	----- ug/l	-----	50.00	90 - 110	
	111 Cd	49.59 ug/l	0.88	50.00	90 - 110	
	118 Sn	50.70 ug/l	0.24	50.00	90 - 110	
	121 Sb	50.92 ug/l	1.07	50.00	90 - 110	
	137 Ba	50.15 ug/l	0.91	50.00	90 - 110	
	205 Tl	48.73 ug/l	1.15	50.00	90 - 110	
	206 (Pb)	----- ug/l	-----	50.00	90 - 110	
	207 (Pb)	----- ug/l	-----	50.00	90 - 110	
	208 Pb	50.41 ug/l	1.38	50.00	90 - 110	

ISTD Elements	Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
	6 Li	3087745.80	0.94	2775704.50	111.2	70 - 120	
	45 Sc	518583.69	0.47	500780.41	103.6	70 - 120	
	45 Sc	93007.50	0.55	95494.08	97.4	70 - 120	
	45 Sc	1424009.10	1.38	1460980.80	97.5	70 - 120	
	72 Ge	100723.93	0.27	96219.04	104.7	70 - 120	
	72 Ge	44570.69	0.32	43611.78	102.2	70 - 120	
	72 Ge	210088.66	0.52	213204.63	98.5	70 - 120	
	115 In	1313527.60	0.88	1381264.00	95.1	70 - 120	
	159 Tb	1801651.50	1.57	1843940.90	97.7	70 - 120	
	165 Ho	1809552.10	1.53	1844184.90	98.1	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
 Analytes: Fail
 ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\048_CCB.D\048_CCB.D#
 Date Acquired: Nov 11 2011 04:42 pm
 Operator: NBS
 Sample Name: CCB 111111
 Misc Info:
 Vial Number: 1102
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	----- ug/l	-----	#VALUE!	
9 Be	0.00 ug/l	42.29	0.12	
11 B	-0.13 ug/l	71.11	15.00	
23 Na	-8.31 ug/l	8.06	77.10	
24 Mg	0.36 ug/l	29.70	7.50	
27 Al	0.19 ug/l	47.04	3.96	
39 K	-21.23 ug/l	17.60	19.20	
44 Ca	-3.80 ug/l	61.16	90.00	
47 Ti	0.11 ug/l	173.80	0.78	
51 V	2.15 ug/l	1.51	0.21	Fail
52 Cr	0.08 ug/l	5.21	0.12	
55 Mn	0.54 ug/l	4.21	0.18	Fail
56 Fe	1.18 ug/l	2.51	40.80	
59 Co	-0.29 ug/l	0.62	0.09	
60 Ni	-0.01 ug/l	26.89	0.48	
63 Cu	-0.51 ug/l	3.25	0.39	
65 Cu	-0.52 ug/l	1.59	0.39	
66 Zn	0.03 ug/l	92.54	6.90	
75 As	0.35 ug/l	13.98	0.27	Fail
78 Se	0.04 ug/l	38.02	0.30	
78 Se	0.10 ug/l	95.97	0.30	
88 Sr	0.00 ug/l	152.47	0.03	
88 Sr	0.01 ug/l	57.39	0.03	
95 Mo	0.04 ug/l	33.06	0.21	
106 (Cd)	----- ug/l	-----	#VALUE!	
107 Ag	0.00 ug/l	67.11	0.09	
108 (Cd)	----- ug/l	-----	#VALUE!	
111 Cd	0.00 ug/l	1389.00	0.06	
118 Sn	0.07 ug/l	25.68	0.30	
121 Sb	0.41 ug/l	2.24	0.03	Fail
137 Ba	0.01 ug/l	46.25	0.12	
205 Tl	0.01 ug/l	17.61	0.03	
206 (Pb)	----- ug/l	-----	#VALUE!	
207 (Pb)	----- ug/l	-----	#VALUE!	
208 Pb	-0.24 ug/l	0.75	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3066933.50	0.82	2775704.50	110.5	70 - 120	
45 Sc	480667.06	6.48	500780.41	96.0	70 - 120	
45 Sc	92147.45	0.95	95494.08	96.5	70 - 120	
45 Sc	1424222.60	0.94	1460980.80	97.5	70 - 120	
72 Ge	96248.01	5.46	96219.04	100.0	70 - 120	
72 Ge	44554.26	0.07	43611.78	102.2	70 - 120	
72 Ge	211003.38	0.55	213204.63	99.0	70 - 120	
115 In	1322454.80	0.90	1381264.00	95.7	70 - 120	
159 Tb	1796985.40	1.28	1843940.90	97.5	70 - 120	
165 Ho	1818211.10	0.91	1844184.90	98.6	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

4 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\060_CCV.D\060_CCV.D#
 Date Acquired: Nov 11 2011 06:04 pm
 Operator: NBS
 Sample Name: CCV 111111
 Misc Info:
 Vial Number: 1105
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Elements				
Element	Conc.	RSD(%)	Expected QC Range(%)	Flag
7 (Li)	----- ug/l	-----	50.00 90 - 110	
9 Be	43.59 ug/l	0.52	50.00 90 - 110	Fail
11 B	39.89 ug/l	0.37	50.00 90 - 110	Fail
23 Na	1206.00 ug/l	0.25	1250.00 90 - 110	
24 Mg	2492.00 ug/l	1.14	2500.00 90 - 110	
27 Al	988.60 ug/l	0.65	1000.00 90 - 110	
39 K	883.40 ug/l	0.62	1000.00 90 - 110	Fail
44 Ca	2445.00 ug/l	1.17	2500.00 90 - 110	
47 Ti	49.55 ug/l	0.70	50.00 90 - 110	
51 V	52.18 ug/l	0.86	50.00 90 - 110	
52 Cr	49.10 ug/l	0.91	50.00 90 - 110	
55 Mn	53.67 ug/l	0.37	50.00 90 - 110	
56 Fe	999.40 ug/l	0.75	1000.00 90 - 110	
59 Co	49.93 ug/l	0.37	50.00 90 - 110	
60 Ni	50.18 ug/l	0.47	50.00 90 - 110	
63 Cu	48.01 ug/l	1.08	50.00 90 - 110	
65 Cu	47.95 ug/l	1.23	50.00 90 - 110	
66 Zn	48.48 ug/l	0.85	50.00 90 - 110	
75 As	48.40 ug/l	0.84	50.00 90 - 110	
78 Se	44.75 ug/l	1.93	50.00 90 - 110	Fail
78 Se	46.76 ug/l	2.40	50.00 90 - 110	
88 Sr	49.65 ug/l	0.75	50.00 90 - 110	
88 Sr	43.83 ug/l	0.41	50.00 90 - 110	Fail
95 Mo	45.84 ug/l	0.72	50.00 90 - 110	
106 (Cd)	----- ug/l	-----	50.00 90 - 110	
107 Ag	24.47 ug/l	1.71	25.00 90 - 110	
108 (Cd)	----- ug/l	-----	50.00 90 - 110	
111 Cd	48.94 ug/l	2.42	50.00 90 - 110	
118 Sn	49.84 ug/l	1.46	50.00 90 - 110	
121 Sb	50.04 ug/l	0.62	50.00 90 - 110	
137 Ba	50.55 ug/l	2.58	50.00 90 - 110	
205 Tl	46.49 ug/l	1.08	50.00 90 - 110	
206 (Pb)	----- ug/l	-----	50.00 90 - 110	
207 (Pb)	----- ug/l	-----	50.00 90 - 110	
208 Pb	48.04 ug/l	0.60	50.00 90 - 110	

ISTD Elements						
Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3120885.30	0.68	2775704.50	112.4	70 - 120	
45 Sc	528291.50	1.60	500780.41	105.5	70 - 120	
45 Sc	94943.62	0.72	95494.08	99.4	70 - 120	
45 Sc	1497531.60	0.60	1460980.80	102.5	70 - 120	
72 Ge	107482.91	1.52	96219.04	111.7	70 - 120	
72 Ge	46381.07	0.48	43611.78	106.3	70 - 120	
72 Ge	233866.19	0.20	213204.63	109.7	70 - 120	
115 In	1403864.60	1.34	1381264.00	101.6	70 - 120	
159 Tb	1927869.00	0.42	1843940.90	104.6	70 - 120	
165 Ho	1902582.90	0.32	1844184.90	103.2	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

5 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
 Analytes: Fail
 ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\062_CCB.D\062_CCB.D#
 Date Acquired: Nov 11 2011 06:16 pm
 Operator: NBS
 Sample Name: CCB 111111
 Misc Info:
 Vial Number: 1102
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Elements	Element	Conc.	RSD(%)	High Limit	Flag
	7 (Li)	----- ug/l	-----	#VALUE!	
	9 Be	0.00 ug/l	45.82	0.12	
	11 B	-0.52 ug/l	3.32	15.00	
	23 Na	-14.13 ug/l	1.97	77.10	
	24 Mg	0.40 ug/l	18.80	7.50	
	27 Al	0.37 ug/l	36.41	3.96	
	39 K	-25.01 ug/l	22.10	19.20	
	44 Ca	-5.06 ug/l	39.41	90.00	
	47 Ti	-0.01 ug/l	153.32	0.78	
	51 V	3.23 ug/l	1.14	0.21	Fail
	52 Cr	0.11 ug/l	18.29	0.12	
	55 Mn	0.56 ug/l	2.13	0.18	Fail
	56 Fe	0.91 ug/l	1.90	40.80	
	59 Co	-0.29 ug/l	0.95	0.09	
	60 Ni	-0.01 ug/l	26.61	0.48	
	63 Cu	-0.57 ug/l	1.33	0.39	
	65 Cu	-0.57 ug/l	1.17	0.39	
	66 Zn	0.10 ug/l	36.98	6.90	
	75 As	0.63 ug/l	2.54	0.27	Fail
	78 Se	0.03 ug/l	36.72	0.30	
	78 Se	0.20 ug/l	17.06	0.30	
	88 Sr	0.01 ug/l	140.22	0.03	
	88 Sr	0.00 ug/l	12.28	0.03	
	95 Mo	0.01 ug/l	62.46	0.21	
	106 (Cd)	----- ug/l	-----	#VALUE!	
	107 Ag	0.00 ug/l	55.01	0.09	
	108 (Cd)	----- ug/l	-----	#VALUE!	
	111 Cd	0.01 ug/l	225.87	0.06	
	118 Sn	0.05 ug/l	34.43	0.30	
	121 Sb	0.19 ug/l	1.47	0.03	Fail
	137 Ba	0.00 ug/l	114.50	0.12	
	205 Tl	0.01 ug/l	8.77	0.03	
	206 (Pb)	----- ug/l	-----	#VALUE!	
	207 (Pb)	----- ug/l	-----	#VALUE!	
	208 Pb	-0.25 ug/l	1.47	0.33	

ISTD Elements	Element	CPS	Mean	RSD(%)	Ref Value	Rec (%)	QC Range (%)	Flag
	6 Li	3025901.00	0.96	2775704.50	109.0	70 - 120		
	45 Sc	540897.69	0.43	500780.41	108.0	70 - 120		
	45 Sc	95060.94	0.12	95494.08	99.5	70 - 120		
	45 Sc	1475771.40	0.55	1460980.80	101.0	70 - 120		
	72 Ge	108235.30	0.84	96219.04	112.5	70 - 120		
	72 Ge	46007.31	1.05	43611.78	105.5	70 - 120		
	72 Ge	232509.75	0.78	213204.63	109.1	70 - 120		
	115 In	1409864.80	1.11	1381264.00	102.1	70 - 120		
	159 Tb	1904300.90	0.32	1843940.90	103.3	70 - 120		
	165 Ho	1879356.80	0.14	1844184.90	101.9	70 - 120		

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

4 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Pass

METALS
Raw Data

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
6020	LEAD (PB) (DISSOL	0.19 J	0.5	0.22	0.11	ug/L	11/10/11	11/11/11	#602D-111110A-AY49334

J = Estimated value.

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\024SMPL.D\024SMPL.D#
 Date Acquired: Nov 11 2011 02:16 pm
 Operator: NBS
 Sample Name: 111110A-3015-BLK
 Misc Info: 111110A-3015
 Vial Number: 3101
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: Sample
 Prep Dil Factor: 1.11
 Total Dil Factor: 1.11

QC Elements	Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
	7 (Li)	----- ug/l	#VALUE!	-----	0	
	9 Be	-0.01 ug/l	-0.01	2.73	1000	
	11 B	0.02 ug/l	0.02	15.56	1000	
	23 Na	35.01 ug/l	38.90	12.71	25000	
	24 Mg	5.25 ug/l	5.83	2.15	50000	
	27 Al	6.63 ug/l	7.37	3.21	20000	
	39 K	-19.19 ug/l	-21.32	24.75	20000	
	44 Ca	187.10 ug/l	207.87	2.16	50000	
	47 Ti	0.09 ug/l	0.10	43.80	1000	
	51 V	-0.78 ug/l	-0.86	1.87	1000	
	52 Cr	-0.04 ug/l	-0.04	28.95	1000	
	55 Mn	0.23 ug/l	0.26	6.88	1000	
	56 Fe	2.70 ug/l	3.00	5.14	20000	
	59 Co	-0.27 ug/l	-0.30	0.86	1000	
	60 Ni	0.12 ug/l	0.14	23.87	1000	
	63 Cu	-0.44 ug/l	-0.49	2.50	1000	
	65 Cu	-0.44 ug/l	-0.49	2.58	1000	
	66 Zn	7.48 ug/l	8.31	3.75	1000	
	75 As	-0.53 ug/l	-0.59	2.55	1000	
	78 Se	-0.01 ug/l	-0.01	26.71	1000	
	78 Se	-0.01 ug/l	-0.02	520.99	1000	
	88 Sr	0.14 ug/l	0.16	12.74	1000	
	88 Sr	0.14 ug/l	0.16	3.88	1000	
	95 Mo	0.02 ug/l	0.02	6.80	1000	
	106 (Cd)	----- ug/l	#VALUE!	-----	#####	
	107 Ag	0.00 ug/l	0.00	212.49	500	
	108 (Cd)	----- ug/l	#VALUE!	-----	#####	
	111 Cd	0.02 ug/l	0.02	26.66	1000	
	118 Sn	0.12 ug/l	0.13	6.01	1000	
	121 Sb	0.07 ug/l	0.08	7.73	1000	
	137 Ba	0.04 ug/l	0.04	9.41	1000	
	205 Tl	0.01 ug/l	0.01	22.33	1000	
	206 (Pb)	----- ug/l	#VALUE!	-----	#####	
	207 (Pb)	----- ug/l	#VALUE!	-----	#####	
	208 Pb	0.17 ug/l	0.19	1.81	1000	

ISTD Elements	Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
	6 Li	3205542.30	0.83	2775704.50	115.5	70 - 120	
	45 Sc	579022.81	0.89	500780.41	115.6	70 - 120	
	45 Sc	106222.45	0.45	95494.08	111.2	70 - 120	
	45 Sc	1635333.40	0.66	1460980.80	111.9	70 - 120	
	72 Ge	108091.34	0.67	96219.04	112.3	70 - 120	
	72 Ge	49642.59	1.23	43611.78	113.8	70 - 120	
	72 Ge	228973.69	0.34	213204.63	107.4	70 - 120	
	115 In	1505106.90	0.63	1381264.00	109.0	70 - 120	
	159 Tb	2069441.80	1.02	1843940.90	112.2	70 - 120	
	165 Ho	2056674.30	0.60	1844184.90	111.5	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
 Analytes: Pass
 ISTD: Pass

Laboratory Control Spike Recovery

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
6020	LEAD (PB) (DISSOLVED)	50.0	50.0	100	80-120	11/10/2011	1/11/2011	#602D-111110A-AY49334

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Comments:

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\025SMPL.D\025SMPL.D#
 Date Acquired: Nov 11 2011 02:22 pm
 Operator: NBS
 Sample Name: 111110A-3015-LCS
 Misc Info: 111110A-3015
 Vial Number: 3102
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: Sample
 Prep Dil Factor: 1.11
 Total Dil Factor: 1.11

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	----- ug/l	#VALUE!	-----	0	
9 Be	7.09 ug/l	7.88	0.95	1000	
11 B	34.46 ug/l	38.29	0.83	1000	
23 Na	4313.00 ug/l	4791.74	0.33	25000	
24 Mg	4287.00 ug/l	4762.86	0.50	50000	
27 Al	378.80 ug/l	420.85	1.07	20000	
39 K	819.80 ug/l	910.80	1.14	20000	
44 Ca	4772.00 ug/l	5301.69	0.81	50000	
47 Ti	43.16 ug/l	47.95	0.73	1000	
51 V	44.89 ug/l	49.87	0.68	1000	
52 Cr	46.85 ug/l	52.05	0.52	1000	
55 Mn	48.25 ug/l	53.61	0.34	1000	
56 Fe	188.60 ug/l	209.53	0.62	20000	
59 Co	45.14 ug/l	50.15	0.81	1000	
60 Ni	45.24 ug/l	50.26	0.75	1000	
63 Cu	42.57 ug/l	47.30	0.51	1000	
65 Cu	42.70 ug/l	47.44	0.10	1000	
66 Zn	94.53 ug/l	105.02	0.68	1000	
75 As	39.81 ug/l	44.23	0.66	1000	
78 Se	36.57 ug/l	40.63	2.90	1000	
78 Se	37.79 ug/l	41.98	1.41	1000	
88 Sr	47.19 ug/l	52.43	0.39	1000	
88 Sr	45.26 ug/l	50.28	0.18	1000	
95 Mo	45.43 ug/l	50.47	0.63	1000	
106 (Cd)	----- ug/l	#VALUE!	-----	#####	
107 Ag	16.57 ug/l	18.41	1.13	500	
108 (Cd)	----- ug/l	#VALUE!	-----	#####	
111 Cd	8.34 ug/l	9.26	2.50	1000	
118 Sn	48.01 ug/l	53.34	0.41	1000	
121 Sb	42.84 ug/l	47.60	0.50	1000	
137 Ba	44.60 ug/l	49.55	0.91	1000	
205 Tl	43.45 ug/l	48.27	0.08	1000	
206 (Pb)	----- ug/l	#VALUE!	-----	#####	
207 (Pb)	----- ug/l	#VALUE!	-----	#####	
208 Pb	45.08 ug/l	50.08	0.48	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3106113.00	0.94	2775704.50	111.9	70 - 120	
45 Sc	583837.94	0.76	500780.41	116.6	70 - 120	
45 Sc	104815.63	0.97	95494.08	109.8	70 - 120	
45 Sc	1623628.90	0.72	1460980.80	111.1	70 - 120	
72 Ge	109519.99	0.75	96219.04	113.8	70 - 120	
72 Ge	48705.67	0.97	43611.78	111.7	70 - 120	
72 Ge	226177.02	0.48	213204.63	106.1	70 - 120	
115 In	1499201.30	0.50	1381264.00	108.5	70 - 120	
159 Tb	2052386.10	0.41	1843940.90	111.3	70 - 120	
165 Ho	2061841.80	0.62	1844184.90	111.8	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass
 ISTD: Pass

Matrix Spike Recoveries

METALS

APPL ID: 111110W-49334 MS - 161255

APPL Inc.

Sample ID: AY49334

908 North Temperance Avenue

Client ID: ES047

Clovis, CA 93611

Method	Compound Name	Spike Lvl ug/L	Matrix Res ug/L	SPK Res ug/L	DUP Res ug/L	SPK % Recovery	DUP % Recovery	RPD	RPD Max	RPD Limits	Extract Date-Spk	Analysis Date-Spk	Extract Date-Dup	Analysis Date-Dup	QC Group	QC Sample
6020	LEAD (PB) (DISSOLVE	50.0	ND	49.5	48.8	99.0	97.6	1.4	20	80-120	1/10/2011	1/11/2011	1/10/2011	1/11/2011	161255	AY49334

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Comments:

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\043SMPL.D\043SMPL.D#
 Date Acquired: Nov 11 2011 04:12 pm
 Operator: NBS
 Sample Name: AY49334W52 MS
 Misc Info: 111110A-3015
 Vial Number: 3204
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: Sample
 Prep Dil Factor: 1.11
 Total Dil Factor: 1.11

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	----- ug/l	#VALUE!	-----	0	
9 Be	5.49 ug/l	6.10	1.06	1000	
11 B	106.30 ug/l	118.10	0.86	1000	
23 Na	67250.00 ug/l	74714.75	0.69	25000	>Cal
24 Mg	27980.00 ug/l	31085.78	0.94	50000	
27 Al	425.20 ug/l	472.40	1.20	20000	
39 K	3527.00 ug/l	3918.50	0.62	20000	
44 Ca	17630.00 ug/l	19586.93	1.01	50000	
47 Ti	46.43 ug/l	51.58	0.68	1000	
51 V	47.50 ug/l	52.77	0.75	1000	
52 Cr	46.44 ug/l	51.59	0.93	1000	
55 Mn	1471.00 ug/l	1634.28	0.54	1000	>Cal
56 Fe	1106.00 ug/l	1228.77	0.88	20000	
59 Co	44.68 ug/l	49.64	1.20	1000	
60 Ni	44.83 ug/l	49.81	0.65	1000	
63 Cu	43.23 ug/l	48.03	0.77	1000	
65 Cu	43.18 ug/l	47.97	0.92	1000	
66 Zn	91.21 ug/l	101.33	0.62	1000	
75 As	42.58 ug/l	47.31	0.67	1000	
78 Se	38.49 ug/l	42.76	2.21	1000	
78 Se	39.09 ug/l	43.43	0.75	1000	
88 Sr	163.00 ug/l	181.09	0.38	1000	
88 Sr	163.50 ug/l	181.65	1.22	1000	
95 Mo	47.02 ug/l	52.24	1.05	1000	
106 (Cd)	----- ug/l	#VALUE!	-----	#####	
107 Ag	17.43 ug/l	19.36	0.62	500	
108 (Cd)	----- ug/l	#VALUE!	-----	#####	
111 Cd	8.85 ug/l	9.83	1.40	1000	
118 Sn	49.73 ug/l	55.25	0.73	1000	
121 Sb	43.10 ug/l	47.88	0.46	1000	
137 Ba	71.28 ug/l	79.19	1.16	1000	
205 Tl	43.09 ug/l	47.87	0.35	1000	
206 (Pb)	----- ug/l	#VALUE!	-----	#####	
207 (Pb)	----- ug/l	#VALUE!	-----	#####	
208 Pb	44.63 ug/l	49.58	1.25	1000	

ISTD Elements

Element	CPS	Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3108599.50	0.69	2775704.50	112.0	70 - 120		
45 Sc	657553.31	0.13	500780.41	131.3	70 - 120	IS Fai	
45 Sc	107348.46	1.08	95494.08	112.4	70 - 120		
45 Sc	2219467.30	0.83	1460980.80	151.9	70 - 120	IS Fai	
72 Ge	104662.85	0.47	96219.04	108.8	70 - 120		
72 Ge	48176.50	1.42	43611.78	110.5	70 - 120		
72 Ge	232443.67	0.24	213204.63	109.0	70 - 120		
115 In	1472805.40	0.82	1381264.00	106.6	70 - 120		
159 Tb	2035764.30	0.83	1843940.90	110.4	70 - 120		
165 Ho	2055214.00	0.90	1844184.90	111.4	70 - 120		

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
 2 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Fail

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\049SMPL.D\049SMPL.D#
 Date Acquired: Nov 11 2011 04:48 pm
 Operator: NBS
 Sample Name: AY49334WS2 MSD
 Misc Info: 111110A-3015
 Vial Number: 3205
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: Sample
 Prep Dil Factor: 1.11
 Total Dil Factor: 1.11

QC Elements	Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
	7 (Li)	----- ug/l	#VALUE!	-----	0	
	9 Be	5.56 ug/l	6.17	0.61	1000	
	11 B	105.40 ug/l	117.10	0.69	1000	
	23 Na	67550.00 ug/l	75048.05	0.54	25000	>Cal
	24 Mg	27890.00 ug/l	30985.79	0.29	50000	
	27 Al	375.40 ug/l	417.07	1.44	20000	
	39 K	3571.00 ug/l	3967.38	0.91	20000	
	44 Ca	17520.00 ug/l	19464.72	1.41	50000	
	47 Ti	46.01 ug/l	51.12	3.10	1000	
	51 V	48.57 ug/l	53.96	1.00	1000	
	52 Cr	47.16 ug/l	52.39	1.21	1000	
	55 Mn	1476.00 ug/l	1639.84	0.85	1000	>Cal
	56 Fe	1047.00 ug/l	1163.22	0.58	20000	
	59 Co	45.69 ug/l	50.76	0.38	1000	
	60 Ni	45.51 ug/l	50.56	0.70	1000	
	63 Cu	43.37 ug/l	48.18	0.83	1000	
	65 Cu	43.50 ug/l	48.33	1.42	1000	
	66 Zn	81.55 ug/l	90.60	0.72	1000	
	75 As	43.24 ug/l	48.04	0.69	1000	
	78 Se	39.39 ug/l	43.76	2.26	1000	
	78 Se	40.07 ug/l	44.52	0.71	1000	
	88 Sr	163.50 ug/l	181.65	0.57	1000	
	88 Sr	165.60 ug/l	183.98	0.32	1000	
	95 Mo	48.36 ug/l	53.73	0.93	1000	
	106 (Cd)	----- ug/l	#VALUE!	-----	#####	
	107 Ag	17.97 ug/l	19.96	1.57	500	
	108 (Cd)	----- ug/l	#VALUE!	-----	#####	
	111 Cd	8.84 ug/l	9.82	0.94	1000	
	118 Sn	50.45 ug/l	56.05	1.04	1000	
	121 Sb	46.12 ug/l	51.24	0.92	1000	
	137 Ba	70.84 ug/l	78.70	1.10	1000	
	205 Tl	42.97 ug/l	47.74	0.67	1000	
	206 (Pb)	----- ug/l	#VALUE!	-----	#####	
	207 (Pb)	----- ug/l	#VALUE!	-----	#####	
	208 Pb	43.94 ug/l	48.82	1.12	1000	

ISTD Elements	Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
	6 Li	3085573.50	1.49	2775704.50	111.2	70 - 120	
	45 Sc	659528.88	0.85	500780.41	131.7	70 - 120	IS Fai
	45 Sc	103045.15	1.13	95494.08	107.9	70 - 120	
	45 Sc	2177886.80	0.53	1460980.80	149.1	70 - 120	IS Fai
	72 Ge	102879.23	0.86	96219.04	106.9	70 - 120	
	72 Ge	46907.60	1.75	43611.78	107.6	70 - 120	
	72 Ge	224264.44	0.97	213204.63	105.2	70 - 120	
	115 In	1453996.00	1.44	1381264.00	105.3	70 - 120	
	159 Tb	2021027.00	0.98	1843940.90	109.6	70 - 120	
	165 Ho	2010739.50	0.60	1844184.90	109.0	70 - 120	

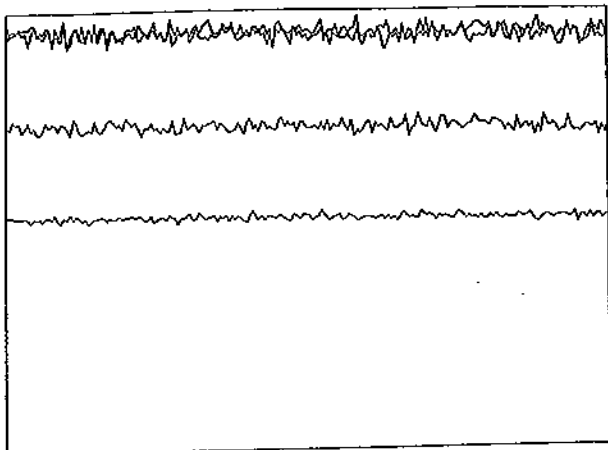
ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
 2 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
 Analytes: Fail
 ISTD: Fail

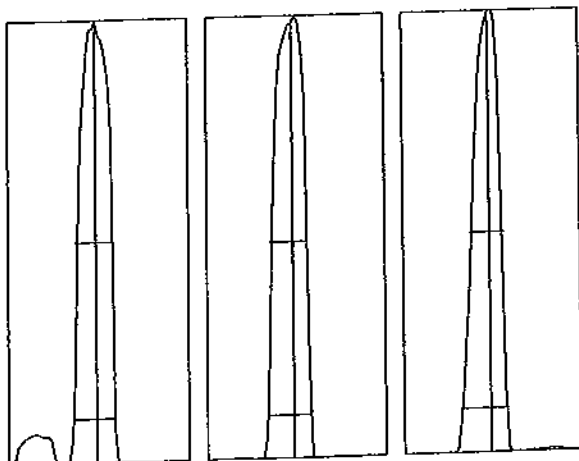
Tune Report

Tune File : nogas.u
 Comment : 111111



Integration Time: 0.1000 sec
 Sampling Period: 0.6200 sec
 n: 200
 Oxide: 156/140 1.410%
 Doubly Charged: 70/140 1.051%

m/z	Range	Count	Mean	RSD%	Background
7	50,000	26283.0	26440.3	1.09	0.40
89	20,000	19274.0	18861.9	1.39	2.20
205	20,000	14914.0	14722.1	1.50	5.80
156/140	2	1.520%	1.398%	6.48	
70/140	2	1.065%	1.038%	8.17	
140	20,000	18882.0	19064.3	1.33	4.10



m/z:	7	89	205
Height:	26,611	18,699	14,936
Axis:	7.00	89.00	205.00
W-50%:	0.65	0.65	0.60
W-10%:	0.700	0.7500	0.800

Integration Time: 0.1000 sec
 Acquisition Time: 22.7600 sec

Y axis : Linear

Tune Report

Tune File : nogas.u
Comment : 111111

Tuning Parameters

===Plasma Condition===	===Ion Lenses===	===Q-Pole Parameters===
RF Power : 1600 W	Extract 1 : 0 V	AMU Gain : 128
RF Matching : 1.66 V	Extract 2 : -130 V	AMU Offset : 127
Smpl Depth : 9.6 mm	Omega Bias-ce : -22 V	Axis Gain : 1
Torch-H : -0.1 mm	Omega Lens-ce : -1.2 V	Axis Offset : -0.02
Torch-V : 0.1 mm	Cell Entrance : -30 V	QP Bias : -3 V
Carrier Gas : 1.02 L/min	QP Focus : 5 V	
Makeup Gas : 0.1 L/min	Cell Exit : -30 V	===Detector Parameters===
Optional Gas : --- %		Discriminator : 8 mV
Nebulizer Pump : 0.1 rps	===Octopole Parameters===	Analog HV : 1660 V
Sample Pump : --- rps	OctP RF : 180 V	Pulse HV : 1460 V
S/C Temp : 2 degC	OctP Bias : -6 V	

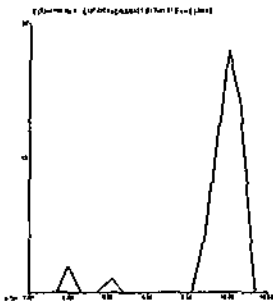
===Reaction Cell===

Reaction Mode : OFF			
H2 Gas : 0 mL/min	He Gas : 0 mL/min	Optional Gas : --- %	

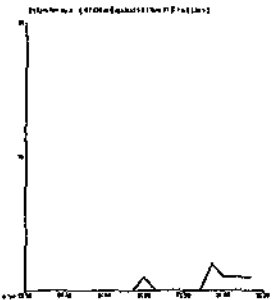
200.8 QC Tune Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\001TUNE.D
 Date Acquired: Nov 11 2011 11:48 am
 Acq. Method: TN200_8.M
 Operator: NBS
 Sample Name: 100ppb Tune sol
 Misc Info:
 Vial Number: 1303
 Current Method: C:\ICPCHEM\1\METHODS\TN200_8.M

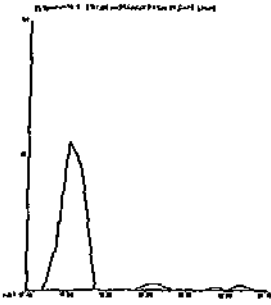
Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	%RSD	Required	Flag
9 Be	65891175	64840372	65630536	65890148	66486284	66608536	1.01	5.00	
24 Mg	120432836	#####	#####	#####	#####	#####	1.16	5.00	
59 Co	111175066	#####	#####	#####	#####	#####	0.73	5.00	
115 In	122240964	#####	#####	#####	#####	#####	0.81	5.00	
208 Pb	63959189	64419004	64182972	63372424	64206080	63615464	1.13	5.00	



9 Be
 Mass Calib.
 Actual: 9.00
 Required: 8.90 - 9.10
 Flag:
 Peak Width
 Actual: 0.60
 Required: 0.90
 Flag:



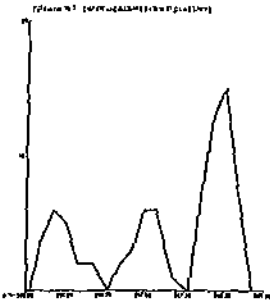
24 Mg
 Mass Calib.
 Actual: 23.95
 Required: 23.90 - 24.10
 Flag:
 Peak Width
 Actual: 0.65
 Required: 0.80
 Flag:



59 Co
Mass Calib.
Actual: 59.00
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



115 In
Mass Calib.
Actual: 115.05
Required: 114.90 - 115.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



208 Pb
Mass Calib.
Actual: 208.00
Required: 207.90 - 208.10
Flag:
Peak Width
Actual: 0.65
Required: 0.80
Flag:

Tune Result: Pass

Metals Standards Log Book # 34 Page #001

NBS 4/11/11

NBS 4/11/11
6020/6020A
(A)

ICP-MS STANDARDS 6020/6020A/3018/3051A			
Today's Date: 11/11/2011		Expires: 11/18/2011	
Prep Date 1% HNO3/1.0% HCL			
20 mL HNO3 / 2000 mL DI Water			
Lot # K19023			
20 mL HCL / 2000 mL DI Water		Lot # 4110110	
Expires: 11/18/2011			
Standard 4			
Amount	STD	Manufacturer	Lot #
50 uL	CCV-A	Env. Express	1036407-28139
50 uL	CCV-B	Env. Express	1036410-28140
50 uL	CCV-C	Env. Express	1100309-28141
Prepared in 100 mL of 1% HNO3/1.0% HCL 11/11/2011			
Standard 3 11/18/2011			
Amount	STD	Manufacturer	Lot #
25 uL	CCV-A	Env. Express	1036407-28139
25 uL	CCV-B	Env. Express	1036410-28140
25 uL	CCV-C	Env. Express	1100309-28141
Prepared in 100 mL of 1% HNO3/1.0% HCL 11/11/2011			
Standard 2 11/18/2011			
Amount	STD	Manufacturer	Lot #
500 uL	Standard 4		11/11/2011
Prepared in 50 mL of 1% HNO3/1.0% HCL 11/11/2011			
Standard 1 11/18/2011			
Amount	STD	Manufacturer	Lot #
50 uL	Standard 4		11/11/2011
Prepared in 50 mL of 1% HNO3/1.0% HCL 11/11/2011			
ICP-MS ICV 11/18/2011			
Amount	STD	Manufacturer	Lot #
50 uL	QCS ICV A	CPI	11C174-28548
50 uL	QCS ICV B	CPI	11C174-28549
Prepared in 50 mL of 1% HNO3/1.0% HCL 11/11/2011			
ICSA Prep: 11/18/2011			
Amount	STD	Manufacturer	Lot #
1 mL	ICSA	CPI	11C088-28528
Prepared in 5 mL of 1% HNO3/1.0% HCL 11/11/2011			
ICSA Prep: 11/18/2011			
Amount	STD	Manufacturer	Lot #
1 mL	ICSA	CPI	11C088-28528
0.025 mL	INT	O2SI	1023805-28210
Prepared in 5 mL of 1% HNO3/1.0% HCL 11/11/2011			
ICP-LDR 11/18/2011			
Amount	STD	Manufacturer	Lot #
50 uL	CCV-A	Env. Express	1036407-28139
50 uL	CCV-B	Env. Express	1036410-28140
50 uL	CCV-C	Env. Express	1100309-28141
Prepared in 10 mL of 1% HNO3/1.0% HCL 11/11/2011			

SAM 11/11/11
200.7
Exp (A)

2% HNO3 / 2% HCl BLK					200.7 ICV				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE	AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
40 mL	HCL	BDH	4110110	10/14/2011	0.5 mL	QCS ICV A	CPI	11C174-28548	9/17/2012
40 mL	HNO3	JT BAKER	K19023	10/14/2011	0.5 mL	QCS ICV B	CPI	11C174-28549	9/17/2012
Prepared in 2000 ml DI Water					Prepared in 50ml 2% HNO3/2% HCl				
STD 1 / LDL 200.7					200.7 ICVA				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE	0.5 mL	AI	CPI	10E012-27665	4/20/2012
0.250 mL	200.7 LDL	O2SI	1028857-28687	11/11/2012	0.5 mL	Ca	CPI	11A008-28528	9/15/2012
Prepared in 50 ml 2% HNO3/2% HCl					0.5 mL	Mg	CPI	10H213-2766	4/20/2012
STD 3 / HDL 200.7					0.5 mL	Fe	O2SI	1022245-27699	4/22/2012
0.5 mL	CCV-A	ABSOLUTE	091409-25208	9/14/2012	Prepared in 50 ml 2% HNO3/2% HCl				
0.5 mL	CCV-B	ABSOLUTE	091109-25208	9/14/2012	200.7 ICVA B				
0.5 mL	CCV-C	ABSOLUTE	091009-25207	9/10/2012	0.5 mL	AI	CPI	10E012-27665	4/20/2012
STD 2 / CCV1 200.7					0.5 mL	Ca	CPI	11A008-28528	9/15/2012
AMOUNT	STD	PREP DATE	EXP DATE		0.5 mL	Mg	CPI	10H213-2766	4/20/2012
25 mL	STD 3	11/4/2011	11/11/2011		0.5 mL	Fe	O2SI	1022245-27699	4/22/2012
25 mL	2% HNO3/2% HCl	11/4/2011	11/11/2011		0.25 mL	INT SPECIAL MIX	O2SI	160485-01-01	3/1/2012
CCV2 200.7					Prepared in 50 ml 2% HNO3/2% HCl				
15 mL	STD 3	11/4/2011	11/11/2011						
25 mL	2% HNO3/2% HCl	11/4/2011	11/11/2011						

SAM 11/11/11
6010B/6010C
(A)

1% HNO3 / 5% HCl BLK					6010B/6010C ICVA				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE	AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
100 mL	HCL	BDH	4110110	10/14/2011	1 mL	AI	CPI	10E012-27665	4/20/2012
20 mL	HNO3	JT BAKER	K19023	10/14/2011	1 mL	Ca	CPI	11A008-28528	9/15/2012
Prepared in 2000 ml DI Water					1 mL	Mg	CPI	10H213-2766	4/20/2012
STD 1 / LDL 6010B/6010C					1 mL	Fe	O2SI	1022245-27699	4/22/2012
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE	Prepared in 50 ml 1% HNO3/5% HCl				
0.5 mL	6010 LDL	ABSOLUTE	091409-25208	9/14/2012	6010B/6010C ICVA B				
Prepared in 50 ml 1% HNO3/5% HCl					1 mL	AI	CPI	10E012-27665	4/20/2012
STD 3 / HDL 6010B/6010C					1 mL	Ca	CPI	11A008-28528	9/15/2012
1 mL	CCV-A	ABSOLUTE	091409-25208	9/14/2012	1 mL	Mg	CPI	10H213-2766	4/20/2012
1 mL	CCV-B	ABSOLUTE	091109-25208	9/14/2012	1 mL	Fe	O2SI	1022245-27699	4/22/2012
1 mL	CCV-C	ABSOLUTE	091009-25207	9/10/2012	0.5 mL	INT SPECIAL MIX	O2SI	160485-01-01	3/1/2012
Prepared in 100 ml 1% HNO3 / 5% HCl					Prepared in 50 ml 1% HNO3/5% HCl				
STD 2 / CCV1 6010B/6010C					6010B/6010C ICV				
AMOUNT	STD	PREP DATE	EXP DATE		0.5 mL	QCS ICV A	CPI	11C174-28548	9/17/2012
25 mL	STD 3	11/11/2011	11/18/2011		0.5 mL	QCS ICV B	CPI	11C174-28549	9/17/2012
25 mL	1% HNO3/5% HCl	11/11/2011	11/18/2011		Prepared in 50ml 1% HNO3/5% HCl				
CCV2 6010B/6010C									
AMOUNT	STD	PREP DATE	EXP DATE	480					
15 mL	STD 3	11/11/2011	11/18/2011						
25 mL	1% HNO3/5% HCl	11/11/2011	11/18/2011						

SAM 11/11/11

Metals Digestion Worksheet

Method Name 3015 Digestion

Prep Method M3015

Set 111110A

Units mL

Spikes	
Spiked ID 1	LCSW LOT# 1028408-29435
Spiked ID 2	LCSW LOT# 1028416-29433
Spiked ID 3	
Spiked ID 4	
Spiked By	NM Date: 11/10/11 10:40:00 AM
Witnessed By	KWS Date: 11/10/11 10:40:00 AM

Starting Temp:	25 C
Ending Temp:	170 C
Temperature Type:	Microwave
Sufficient Vol for Matrix QC:	YES
End Date/Time	11/10/11 12:00

Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1 111110A Bk				45mL	50mL	11/10/11 10:40	equip: Venus
2 111110A LCS		90uL	1+2	45mL	50mL	11/10/11 10:40	equip: Venus
3 AY48273	AY48273W01			45mL	50mL	11/10/11 10:40	equip: Venus
4 AY48273 DUP	AY48273W01			45mL	50mL	11/10/11 10:40	equip: Venus
5 AY48273 MS	AY48273W01	90uL	1+2	45mL	50mL	11/10/11 10:40	equip: Venus
6 AY48639	AY48639W05			45mL	50mL	11/10/11 10:40	equip: Venus
7 AY48640	AY48640W05			45mL	50mL	11/10/11 10:40	equip: Venus
8 AY48641	AY48641W05			45mL	50mL	11/10/11 10:40	equip: Venus
9 AY48642	AY48642W05			45mL	50mL	11/10/11 10:40	equip: Venus
10 AY48643	AY48643W05			45mL	50mL	11/10/11 10:40	equip: Venus
11 AY48644	AY48644W02			45mL	50mL	11/10/11 10:40	equip: Venus
12 AY49333	AY49333W13			45mL	50mL	11/10/11 10:40	equip: Venus
13 AY49334	AY49334W51			45mL	50mL	11/10/11 10:40	equip: Venus
14 AY49334 MS	AY49334W52	90uL	1+2	45mL	50mL	11/10/11 10:40	equip: Venus
15 AY49334 MSD	AY49334W52	90uL	1+2	45mL	50mL	11/10/11 10:40	equip: Venus
16 AY49336	AY49336W13			45mL	50mL	11/10/11 10:40	equip: Venus
17 AY49481	AY49481W13			45mL	50mL	11/10/11 10:40	equip: Venus
18 AY49482	AY49482W13			45mL	50mL	11/10/11 10:40	equip: Venus
19 AY49559	AY49559W31			45mL	50mL	11/10/11 10:40	equip: Venus
20 AY49559 MS	AY49559W31	90uL	1+2	45mL	50mL	11/10/11 10:40	equip: Venus
21 AY49559 MSD	AY49559W31	90uL	1+2	45mL	50mL	11/10/11 10:40	equip: Venus
22 AY49561	AY49561W08			45mL	50mL	11/10/11 10:40	equip: Venus
23 AY49562	AY49562W08			45mL	50mL	11/10/11 10:40	equip: Venus

Solvent and Lot#
HNO3 J.T.B k19023 0095

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	NBS
Date	11-10-11
Time	1:30
Moved to	MGTALS

Technician's Initials	
Scanned By	nm
Sample Preparation	lo
Digestion	lo
Bring up to volume	nm
Modified	11/10/11 10:19:53 AM

Reviewed By: *EA* Date: 11-10-11

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Metals Digestion Worksheet

Method Name 3015 Digestion

Prep Method M3015

Set 111110A

Units mL

Spikes	
Spiked ID 1	LCSW LOT# 1028408-29435
Spiked ID 2	LCSW LOT# 1028416-29433
Spiked ID 3	
Spiked ID 4	
Spiked By	NM Date: 11/10/11 10:40:00 AM
Witnessed By	KWS Date: 11/10/11 10:40:00 AM

Starting Temp:	25 C
Ending Temp:	170 C
Temperature Type:	Microwave
Sufficient Vol for Matrix QC:	YES
End Date/Time	11/10/11 12:00

Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
24 AYS0005	AYS0005W08			45mL	50mL	11/10/11 10:40	equip: Venus

Solvent and Lot#
HNO3 J.T.B k19023 0095

Sample COC Transfer
Sample prep employee-Initials nm
Analyst's Initials NBS
Date 11-10-11
Time 13:00
Moved to MSTAACS

Technician's Initials
Scanned By nm
Sample Preparation lo
Digestion lo
Bring up to volume nm
Modified 11/10/11 10:19:53 AM

Reviewed By: SA

482

Date: 11-10-11

6020/200.8 Injection Log

Directory: K:\MCP-MS Optimus\raw data output csv\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	11 Nov 2011	12:08	Calibration Blank		111111A	1.
2	11 Nov 2011	12:14	111111 Standard 1		111111A	1.
3	11 Nov 2011	12:20	111111 Standard 2		111111A	1.
4	11 Nov 2011	12:27	111111 Standard 3		111111A	1.
5	11 Nov 2011	12:33	111111 Standard 4		111111A	1.
6	11 Nov 2011	12:39	ICV 111111		111111A	1.
8	11 Nov 2011	12:57	ICB 111111		111111A	1.
9	11 Nov 2011	13:03	CCV 111111		111111A	1.
10	11 Nov 2011	13:09	CCB 111111		111111A	1.
11	11 Nov 2011	13:15	ICSA 111111		111111A	1.
12	11 Nov 2011	13:21	ICSAB 111111		111111A	1.
13	11 Nov 2011	13:33	CCV 111111		111111A	1.
14	11 Nov 2011	13:46	CCB 111111		111111A	1.
15	11 Nov 2011	14:16	111110A-3015-BLK		111111A	1.
16	11 Nov 2011	14:22	111110A-3015-LCS		111111A	1.
23	11 Nov 2011	15:05	CCV 111111		111111A	1.
24	11 Nov 2011	15:17	CCB 111111		111111A	1.
31	11 Nov 2011	16:00	AY49333W13		111111A	1.
32	11 Nov 2011	16:06	AY49334W51		111111A	1.
33	11 Nov 2011	16:12	AY49334W52 MS		111111A	1.
36	11 Nov 2011	16:30	CCV 111111		111111A	1.
37	11 Nov 2011	16:42	CCB 111111		111111A	1.
38	11 Nov 2011	16:48	AY49334W52 MSD		111111A	1.
39	11 Nov 2011	16:54	AY49334W51-A		111111A	1.
40	11 Nov 2011	17:00	AY49334W51-1/5		111111A	5.
49	11 Nov 2011	18:04	CCV 111111		111111A	1.
50	11 Nov 2011	18:16	CCB 111111		111111A	1.

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

**7979 GSRI Avenue
Baton Rouge, LA 70820**

Report Date 11/10/2011

GCAL Report 211103124



Deliver To Appl, Inc.
908 North Temperance Ave
Clovis, CA 93611
559-275-2175

Attn Cynthia Clark

Project Appl, Inc.

CASE NARRATIVE

Client: Environet, Inc. **Report:** 211103124

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

VOLATILES GAS CHROMATOGRAPHY

In the VPH analysis, samples all 21110312401 (ES046), 21110312402 (ES047), 21110312403 (ES047 MS) and 21110312404 (ES047 MSD) had to be diluted to bracket the concentrations of target ranges within the calibration range of the instrument. The dilutions are reflected in elevated detection limits.

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the EPH analysis for prep batch 468306, the MS/MSD exhibited recovery failures. All LCS/LCSD recoveries are acceptable.

Sample Test Summary Report: 211103124

Lab Sample ID	Cust. Sample ID	Matrix	Proc. Desc.
21110312401	ES046	W	EPH Water
21110312401	ES046	W	VPH Water
21110312401	ES046	W	EPH Water Prep
21110312402	ES047	W	EPH Water
21110312402	ES047	W	VPH Water
21110312402	ES047	W	EPH Water Prep
21110312403	ES047 MS	W	EPH Water
21110312403	ES047 MS	W	VPH Water
21110312403	ES047 MS	W	EPH Water Prep
21110312404	ES047 MSD	W	EPH Water
21110312404	ES047 MSD	W	VPH Water
21110312404	ES047 MSD	W	EPH Water Prep
21110312405	ES049	W	EPH Water
21110312405	ES049	W	VPH Water
21110312405	ES049	W	EPH Water Prep

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report


J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.



Robyn Miguez
Technical Director
GCAL REPORT 211103124

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110312401	ES046	Water	10/24/2011 09:55	10/29/2011 09:10
21110312402	ES047	Water	10/24/2011 08:30	10/29/2011 09:10
21110312403	ES047 MS	Water	10/24/2011 08:30	10/29/2011 09:10
21110312404	ES047 MSD	Water	10/24/2011 08:30	10/29/2011 09:10
21110312405	ES049	Water	10/24/2011 14:35	10/29/2011 09:10

2E
WATER ORGANIC SURROGATE RECOVERY

Lab Name: GCAL Contract: _____

Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 211103124

GC Column (1): DB-5MS-30M ID: .25 (mm) GC Cloumn (2): _____ ID: _____ (mm)

Method: MASSEPH

EPA SAMPLE NO.	SMC1				SMC1				SMC2				SMC2				TOT OUT
	1-(1)	Lo	Hi	F	1-(2)	Lo	Hi	F	2-(1)	Lo	Hi	F	2-(2)	Lo	Hi	F	
1. ES046	97	40	140						79	40	140						0
2. ES047	88	40	140						76	40	140						0
3. ES047 MS	85	40	140						66	40	140						0
4. ES047 MSD	88	40	140						63	40	140						0
5. ES049	69	40	140						62	40	140						0
6. MB1002043	98	40	140						79	40	140						0
7. LCS1002044	101	40	140						69	40	140						0
8. LCSD1002045	103	40	140						83	40	140						0

SMC 1: 1-Chlorooctadecane

SMC 2: O-Terphenyl

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

FORM II ORG-II

3E
WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL
 Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 211103124
 Contract: _____ Method: MASSEPH
 Prep Batch: 468306 Analytical Batch: 468719

SAMPLE NO : 1002044

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
C11-C22 Aromatics	ug/L	250	0	164	66		40 - 140
C19-C36 Aliphatic Hydrocarbons	ug/L	150	0	128	85		40 - 140
C9-C18 Aliphatic Hydrocarbons	ug/L	100	0	47.3	47		40 - 140

SAMPLE NO : 1002045

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
C11-C22 Aromatics	ug/L	250	178	71		8		40 - 140	0 - 40
C19-C36 Aliphatic Hydrocarbons	ug/L	150	107	71		18		40 - 140	0 - 40
C9-C18 Aliphatic Hydrocarbons	ug/L	100	42.8	43		10		40 - 140	0 - 40

RPD : 0 out of 3 outside limits

Spike Recovery: 0 out of 6 outside limits

FORM III ORG-1

3E
WATER ORGANICS MS/MSD RECOVERY

Lab Name: GCAL Sample ID: ES047
 Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 211103124
 Contract: _____ Method: MASSEPH
 Prep Batch: 468306 Analytical Batch: 468719

SAMPLE NO : 21110312403

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
C11-C22 Aromatics	ug/L	255	166	310	56		40 - 140
C19-C36 Aliphatic Hydrocarbons	ug/L	153	0	120	78		40 - 140
C9-C18 Aliphatic Hydrocarbons	ug/L	102	40	74	33	*	40 - 140

SAMPLE NO : 21110312404

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
C11-C22 Aromatics	ug/L	255	302	53		3		40 - 140	0 - 40
C19-C36 Aliphatic Hydrocarbons	ug/L	153	121	79		.8		40 - 140	0 - 40
C9-C18 Aliphatic Hydrocarbons	ug/L	102	57	17	*	26		40 - 140	0 - 40

RPD : 0 out of 3 outside limits
 Spike Recovery: 2 out of 6 outside limits

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL Sample ID: MB1002043
 Lab Code: LA024 Case No.: _____ Contract: _____
 Lab Sample ID: 1002043 SAS No.: _____ SDG No.: 211103124
 Matrix: Water Sulfur Cleanup: (Y/N) N Date Extracted: 11/02/11
 Date Analyzed (1): 11/04/11 Time (1): 1118 Date Analyzed (2): _____ Time (2): _____
 Instrument ID (1): GCS19B Instrument ID (2): _____ (mm)
 GC Column (1): DB-5MS-30M ID: 25 (mm) GC Column (2): _____ ID: _____
 Method: MASSEPH Prep Batch: 468306 Analytical Batch: 468719
 Lab File ID: 2111104/sv19b0

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	<i>SAMPLE NO.</i>	<i>LAB SAMPLE ID</i>	<i>DATE ANALYZED</i>	<i>TIME ANALYZED</i>	<i>INSTRUMENT ID</i>
1.	LCS1002044	1002044	11/04/11	1206	GCS19B
2.	LCSD1002045	1002045	11/04/11	1254	GCS19B
3.	ES046	21110312401	11/04/11	1431	GCS19B
4.	ES047	21110312402	11/04/11	1658	GCS19B
5.	ES047 MS	21110312403	11/04/11	1747	GCS19B
6.	ES047 MSD	21110312404	11/04/11	1836	GCS19B
7.	ES049	21110312405	11/04/11	1925	GCS19B

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: ES046
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211103124
 Sample wt/vol: 1000 Units: mL Lab Sample ID: 21110312401
 Level: (low/med) LOW Date Collected: 10/24/11 Time: 0955
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 10/29/11
 GC Column: DB-5MS-30M ID: .25 (mm) Date Extracted: 11/02/11
 Concentrated Extract Volume: 2000 (µL) Date Analyzed: 11/04/11 Time: 1431
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: SMH
 Injection Volume: 1 (µL) Prep Method: MASS EPH
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSEPH
 Prep Batch: 468306 Analytical Batch: 468719 Sulfur Cleanup: (Y/N) N Instrument ID: GCS19B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111104/sv19b062s

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCSV-02-22	C11-C22 Aromatics	166		42.1	42.1	100
GCSV-02-24	C19-C36 Aliphatic Hydrocarbons	60.0	U	31.3	60.0	100
GCSV-02-23	C9-C18 Aliphatic Hydrocarbons	28.0	J	21.8	21.8	100

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b062.d
Lab Smp Id: 21110312401 Client Smp ID: 1
Inj Date : 04-NOV-2011 14:31
Operator : smh Inst ID: gcsv19b.i
Smp Info : 21110312401*1
Misc Info :
Comment :
Method : /var/chem/gcsv19b.i/2111104.b/AROEPhmass.m
Meth Date : 08-Nov-2011 13:36 smh Quant Type: ESTD
Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
Als bottle: 62
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: $Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable$

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 Naphthalene	10.168	7.881	2.287	403306950	141.902	284 (M1)
M 22 Arom C11-C22				403306950	141.902	284

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b062s.d
 Lab Smp Id: 21110312401 Client Smp ID: 1
 Inj Date : 04-NOV-2011 14:31
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312401*1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/AROEPhmass.m
 Meth Date : 08-Nov-2011 14:38 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 62
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: surr.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
\$ 3 2-Fluorobiphenyl	8.450	8.454	-0.004	48009478	19.5360	39.1
\$ 5 2-Bromonaphthalene	8.835	8.839	-0.004	33288523	21.2194	42.4
\$ 10 O-Terphenyl	9.824	9.823	0.001	46241125	15.6814	31.4
\$ 11 Chloro-octadecane	10.168	10.174	-0.006	46577301	17.0021	34.0
M 113 Total Surrogate Area				174116427		(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation (BLOQ).

Data File: /var/chem/gcsv19b.i/2111104.b/sv19b062.d

Page 1

Date : 04-NOV-2011 14:31

Client ID: 1

Instrument: gcsv19b.i

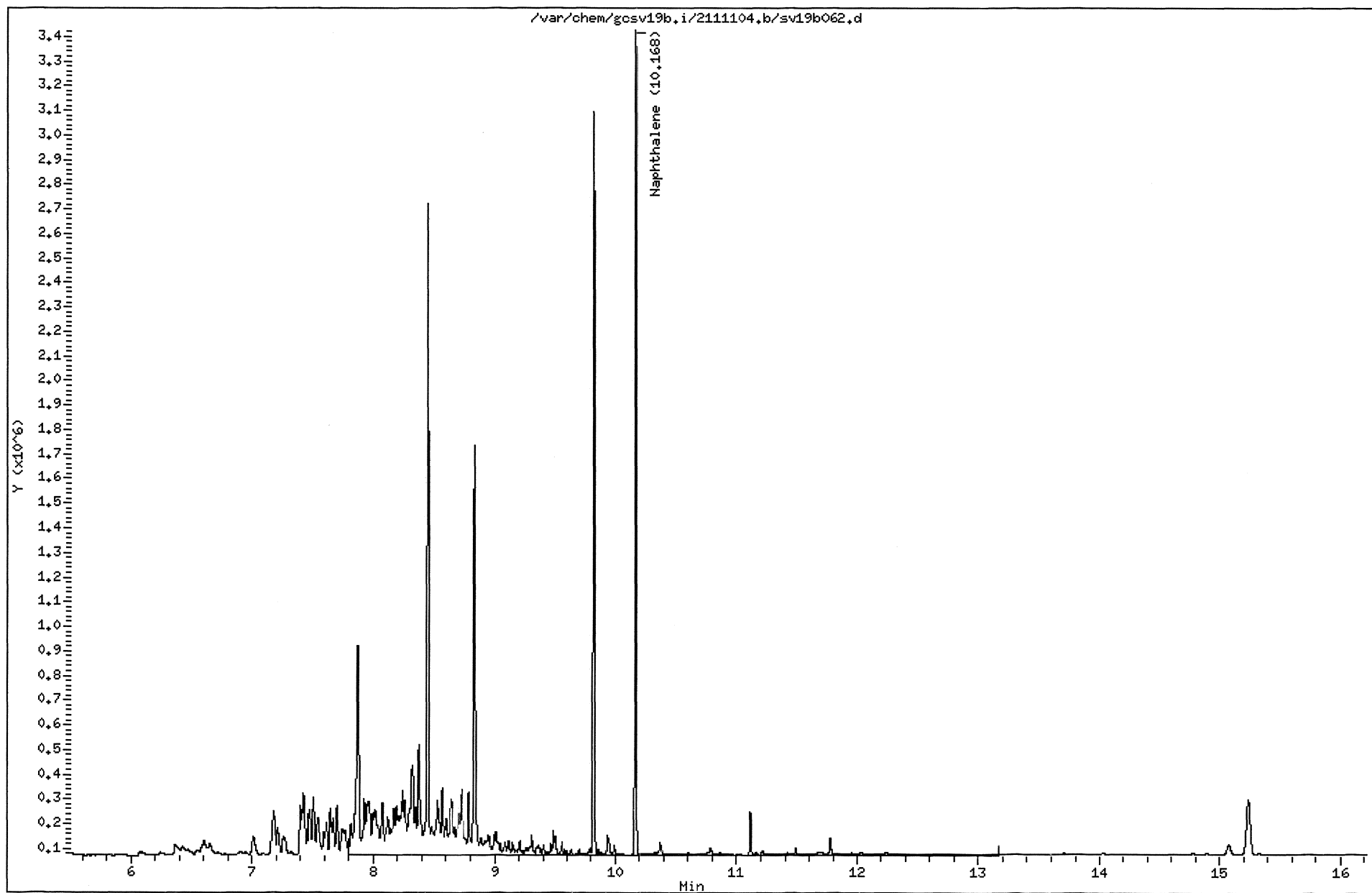
Sample Info: 21110312401*1

Volume Injected (uL): 1.0

Operator: smh

Column phase: DB-5MS-30M

Column diameter: 0.25

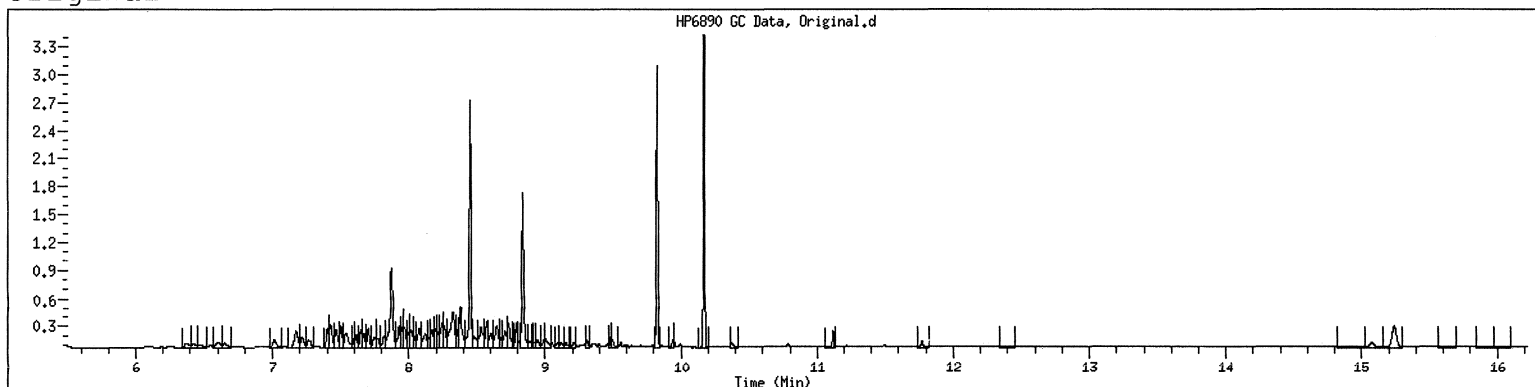


211103124 12

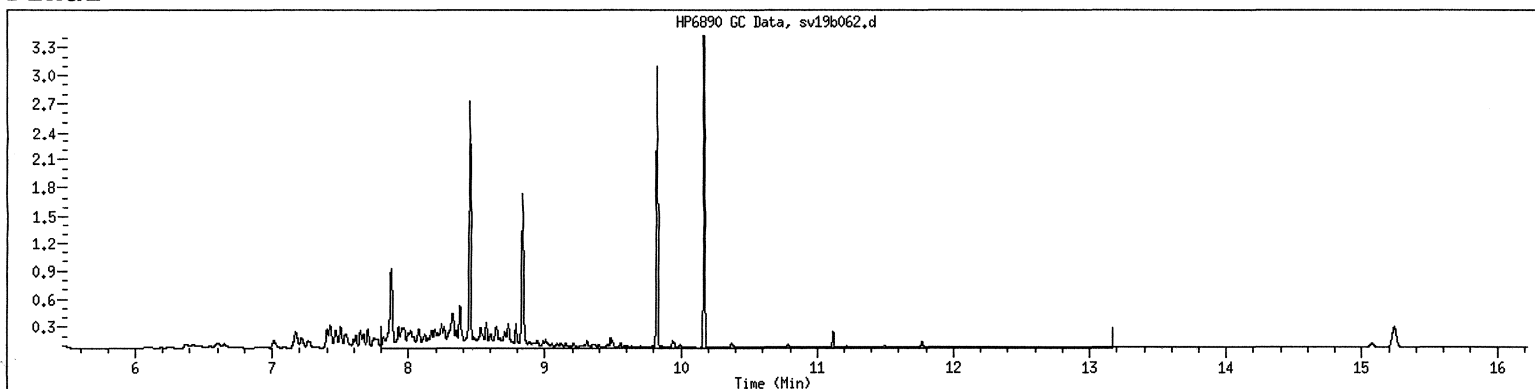
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312401 SampleType : SAMPLE
Injection Date: 11/04/2011 14:31 Instrument : gcsv19b.i
Operator : smh
Sample Info : 21110312401*1
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b063.d
 Lab Smp Id: 21110312401 Client Smp ID: 1
 Inj Date : 04-NOV-2011 14:56
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312401*1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 13:36 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 63
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
10 C-18	9.478	9.504	-0.026	40571161	13.4284	26.9 (M1)
M 11 Alip C9-C18				40571161	13.4284	26.9
114 C-36	10.159	15.144	-4.985	51275658	17.5263	35.1 (AM1)
M 24 Alip C19-C36				51275658	17.5263	35.1

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M1- Compound response manually integrated because Target system did not integrate.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b063s.d
 Lab Smp Id: 21110312401 Client Smp ID: 1
 Inj Date : 04-NOV-2011 14:56
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312401*1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 13:36 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 63
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: Chloro.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
\$ 15 Chlorooctadecane	10.158	10.216	-0.058	6388506	2.33193	4.66 (R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gosv19b.i/2111104.b/sv19b063.d

Page 1

Date : 04-NOV-2011 14:56

Client ID: 1

Instrument: gosv19b.i

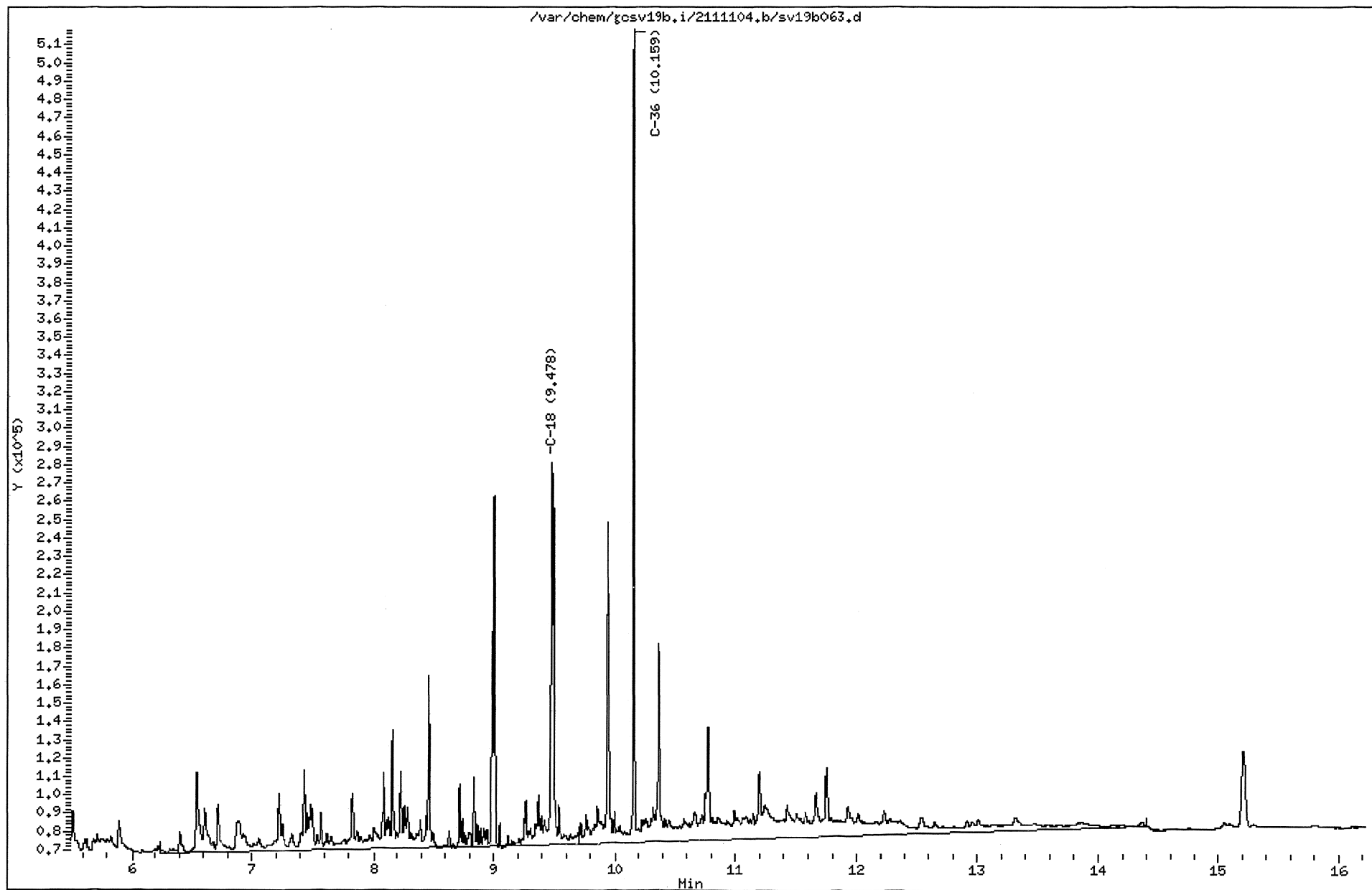
Sample Info: 21110312401*1

Volume Injected (uL): 1.0

Operator: smh

Column phase: DB-5MS-30M

Column diameter: 0.25

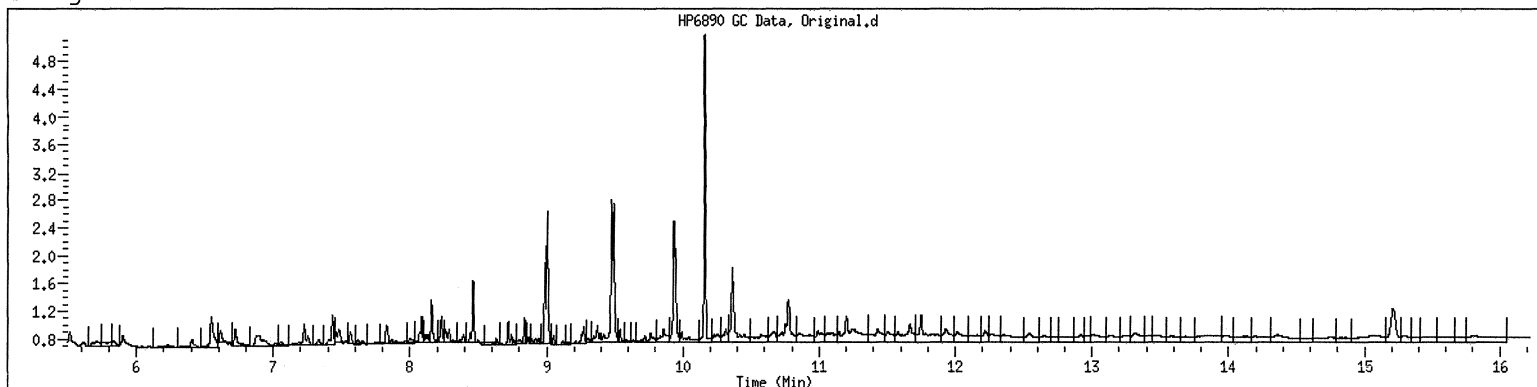


211103124 16

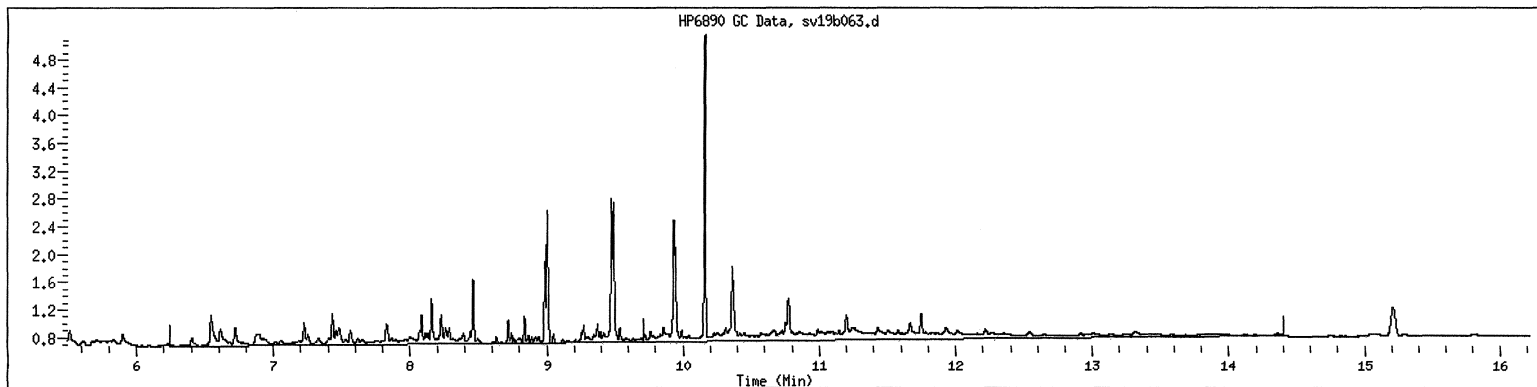
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312401 SampleType : SAMPLE
Injection Date: 11/04/2011 14:56 Instrument : gcsv19b.i
Operator : smh
Sample Info : 21110312401*1
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmaseph

Original



Final



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>GCAL</u>	Sample ID: <u>ES047</u>
Lab Code: <u>LA024</u> Case No.: _____	Contract: _____
Matrix: <u>Water</u>	SAS No.: _____ SDG No.: <u>211103124</u>
Sample wt/vol: <u>990</u> Units: <u>mL</u>	Lab Sample ID: <u>21110312402</u>
Level: (low/med) <u>LOW</u>	Date Collected: <u>10/24/11</u> Time: <u>0830</u>
% Moisture: _____ decanted: (Y/N) _____	Date Received: <u>10/29/11</u>
GC Column: <u>DB-5MS-30M</u> ID: <u>.25</u> (mm)	Date Extracted: <u>11/02/11</u>
Concentrated Extract Volume: <u>2000</u> (µL)	Date Analyzed: <u>11/04/11</u> Time: <u>1658</u>
Soil Aliquot Volume: _____ (µL)	Dilution Factor: <u>1</u> Analyst: <u>SMH</u>
Injection Volume: <u>1</u> (µL)	Prep Method: <u>MASS EPH</u>
GPC Cleanup: (Y/N) <u>N</u> pH: _____	Analytical Method: <u>MASSEPH</u>
Prep Batch: <u>468306</u> Analytical Batch: <u>468719</u>	Sulfur Cleanup: (Y/N) <u>N</u> Instrument ID: <u>GCS19B</u>
CONCENTRATION UNITS: <u>ug/L</u>	Lab File ID: <u>2111104/sv19b068s</u>

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCSV-02-22	C11-C22 Aromatics	166		42.5	42.5	101
GCSV-02-24	C19-C36 Aliphatic Hydrocarbons	60.6	U	31.6	60.6	101
GCSV-02-23	C9-C18 Aliphatic Hydrocarbons	40.0	J	22.0	22.0	101

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b068.d
 Lab Smp Id: 21110312402 Client Smp ID: 1
 Inj Date : 04-NOV-2011 16:58
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312402*1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/AROEPhmass.m
 Meth Date : 08-Nov-2011 14:08 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 68
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	990.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 Naphthalene	9.818	7.881	1.937	388292518	136.619	276 (M1)
M 22 Arom C11-C22				388292518	136.619	276

QC Flag Legend

M1- Compound response manually integrated because Target system did not integrate.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b068s.d
 Lab Smp Id: 21110312402 Client Smp ID: 1
 Inj Date : 04-NOV-2011 16:58
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312402*1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m
 Meth Date : 08-Nov-2011 14:38 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 68
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: surr.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	990.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
\$ 3 2-Fluorobiphenyl	8.451	8.454	-0.003	49252980	20.0420	40.5
\$ 5 2-Bromonaphthalene	8.835	8.839	-0.004	36682715	23.3830	47.2
\$ 10 O-Terphenyl	9.819	9.823	-0.004	44738878	15.1719	30.7
\$ 11 Chloro-octadecane	10.159	10.174	-0.015	31033730	11.3282	22.9
M 113 Total Surrogate Area				161708303		(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation (BLOQ).

Data File: /var/chem/gcsv19b.i/2111104,b/sv19b068.d

Page 1

Date : 04-NOV-2011 16:58

Client ID: 1

Instrument: gcsv19b.i

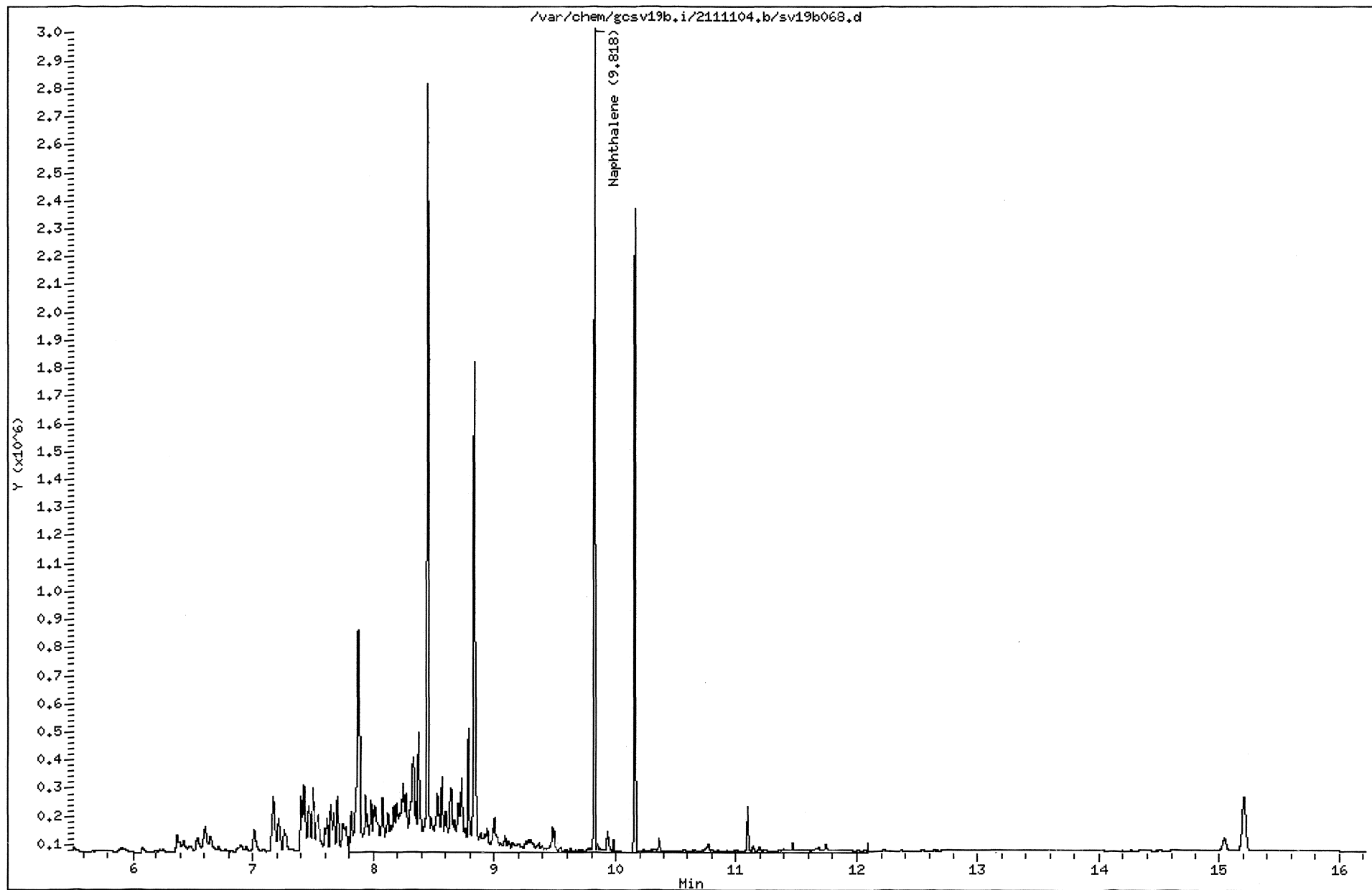
Sample Info: 21110312402*1

Volume Injected (uL): 1.0

Operator: smh

Column phase: DB-5MS-30M

Column diameter: 0.25

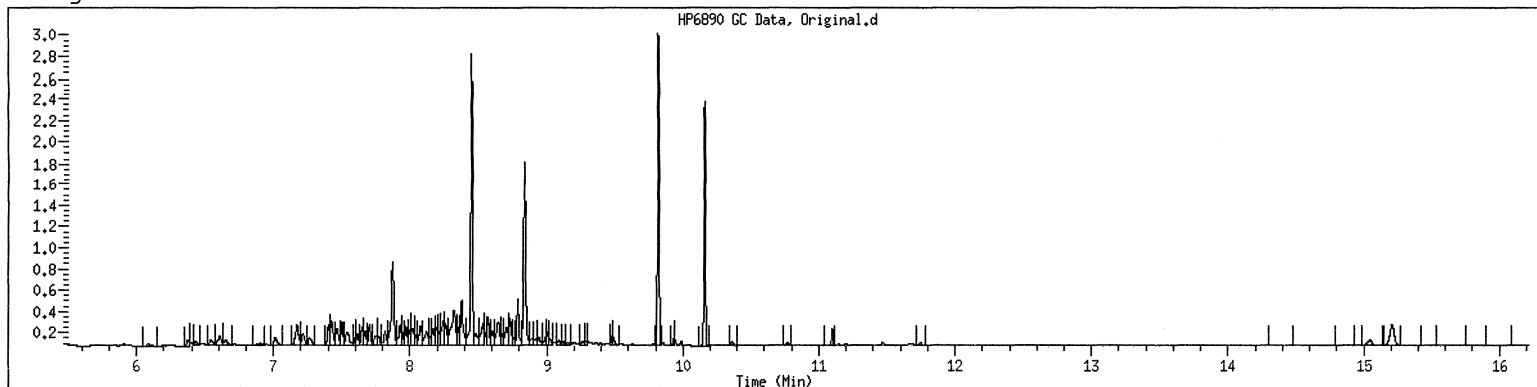


211103124 21

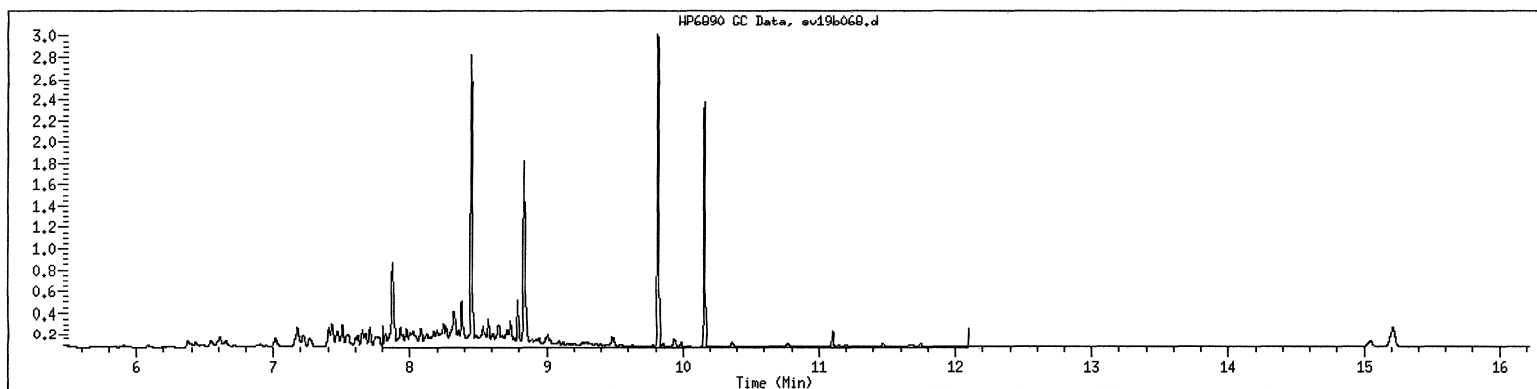
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312402 SampleType : SAMPLE
Injection Date: 11/04/2011 16:58 Instrument : gcsv19b.i
Operator : smh
Sample Info : 21110312402*1
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b069.d
 Lab Smp Id: 21110312402 Client Smp ID: 1
 Inj Date : 04-NOV-2011 17:23
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312402*1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 13:57 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 69
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmaseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	990.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
10 C-18	9.004	9.504	-0.500	57239512	18.9454	38.3(M1)
M 11 Alip C9-C18				57239512	18.9454	38.3
114 C-36	10.159	15.145	-4.986	61648360	21.0718	42.6(AM1)
M 24 Alip C19-C36				61648360	21.0718	42.6

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M1- Compound response manually integrated because Target system did not integrate.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b069s.d
Lab Smp Id: 21110312402 Client Smp ID: 1
Inj Date : 04-NOV-2011 17:23
Operator : smh Inst ID: gcsv19b.i
Smp Info : 21110312402*1
Misc Info :
Comment :
Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
Meth Date : 08-Nov-2011 13:57 smh Quant Type: ESTD
Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
Als bottle: 69
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: Chloro.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	990.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
\$ 15 Chlorooctadecane	10.158	10.217	-0.059	17017131	6.21158	12.5 (R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcsv19b.i/2111104.b/sv19b069.d

Page 1

Date: 04-NOV-2011 17:23

Client ID: 1

Instrument: gcsv19b.i

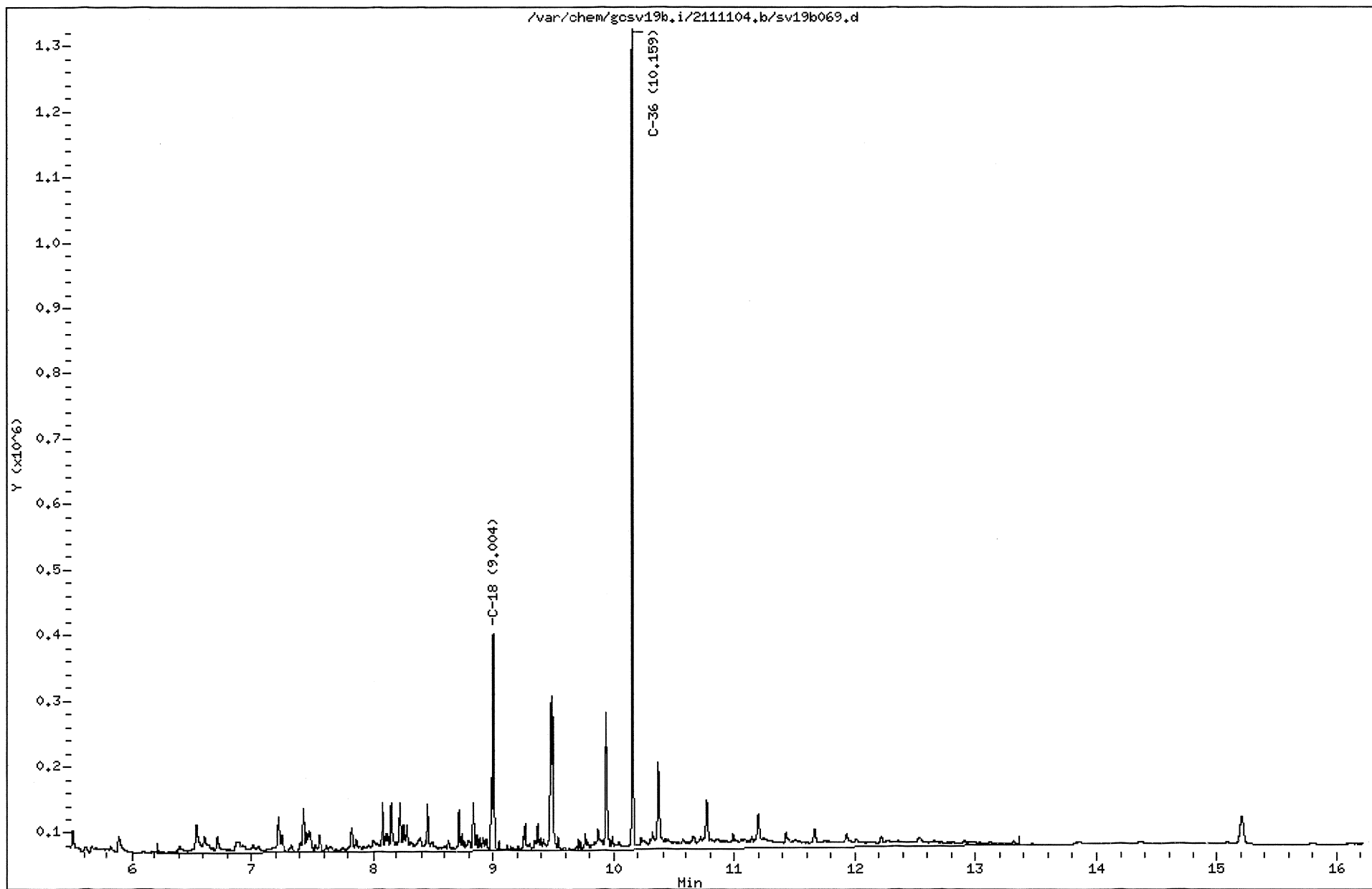
Sample Info: 21110312402*1

Operator: smh

Volume Injected (uL): 1.0

Column diameter: 0.25

Column phase: DB-5MS-30M

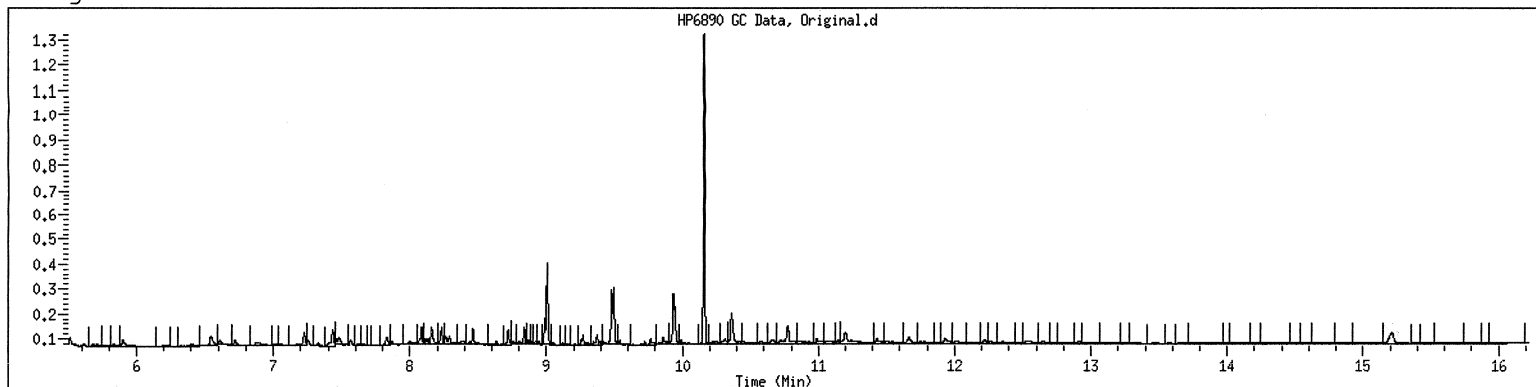


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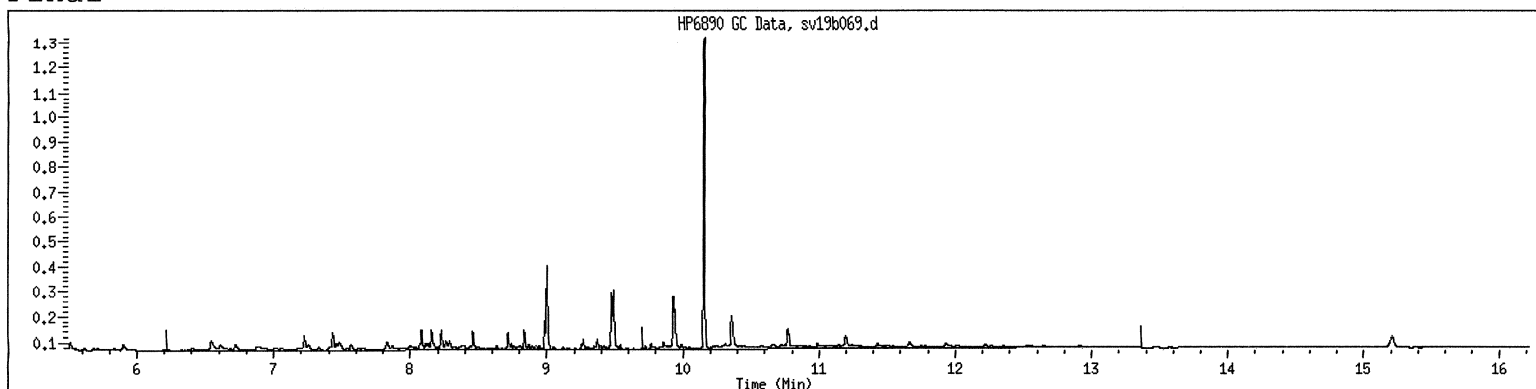
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312402 SampleType : SAMPLE
Injection Date: 11/04/2011 17:23 Instrument : gcsv19b.i
Operator : smh
Sample Info : 21110312402*1
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph

Original



Final



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: ES049
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211103124
 Sample wt/vol: 960 Units: mL Lab Sample ID: 21110312405
 Level: (low/med) LOW Date Collected: 10/24/11 Time: 1435
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 10/29/11
 GC Column: DB-5MS-30M ID: .25 (mm) Date Extracted: 11/02/11
 Concentrated Extract Volume: 2000 (µL) Date Analyzed: 11/04/11 Time: 1925
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: SMH
 Injection Volume: 1 (µL) Prep Method: MASS EPH
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSEPH
 Prep Batch: 468306 Analytical Batch: 468719 Sulfur Cleanup: (Y/N) N Instrument ID: GCS19B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111104/sv19b074

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCSV-02-22	C11-C22 Aromatics	43.9	U	43.9	43.9	104
GCSV-02-24	C19-C36 Aliphatic Hydrocarbons	62.5	U	32.6	62.5	104
GCSV-02-23	C9-C18 Aliphatic Hydrocarbons	26.0	J	22.7	22.7	104

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b074.d
 Lab Smp Id: 21110312405 Client Smp ID: 1
 Inj Date : 04-NOV-2011 19:25
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312405*1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/AROEPMass.m
 Meth Date : 08-Nov-2011 14:38 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 74
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	960.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
\$ 3 2-Fluorobiphenyl	8.450	8.454	-0.004	40774752	16.5920	34.6
\$ 5 2-Bromonaphthalene	8.835	8.839	-0.004	29067347	18.5287	38.6
\$ 10 O-Terphenyl	9.821	9.823	-0.002	36669866	12.4355	25.9
\$ 11 Chloro-octadecane	10.164	10.174	-0.010	25044412	9.14196	19.0
M 113 Total Surrogate Area				131556377		(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation (BLOQ).

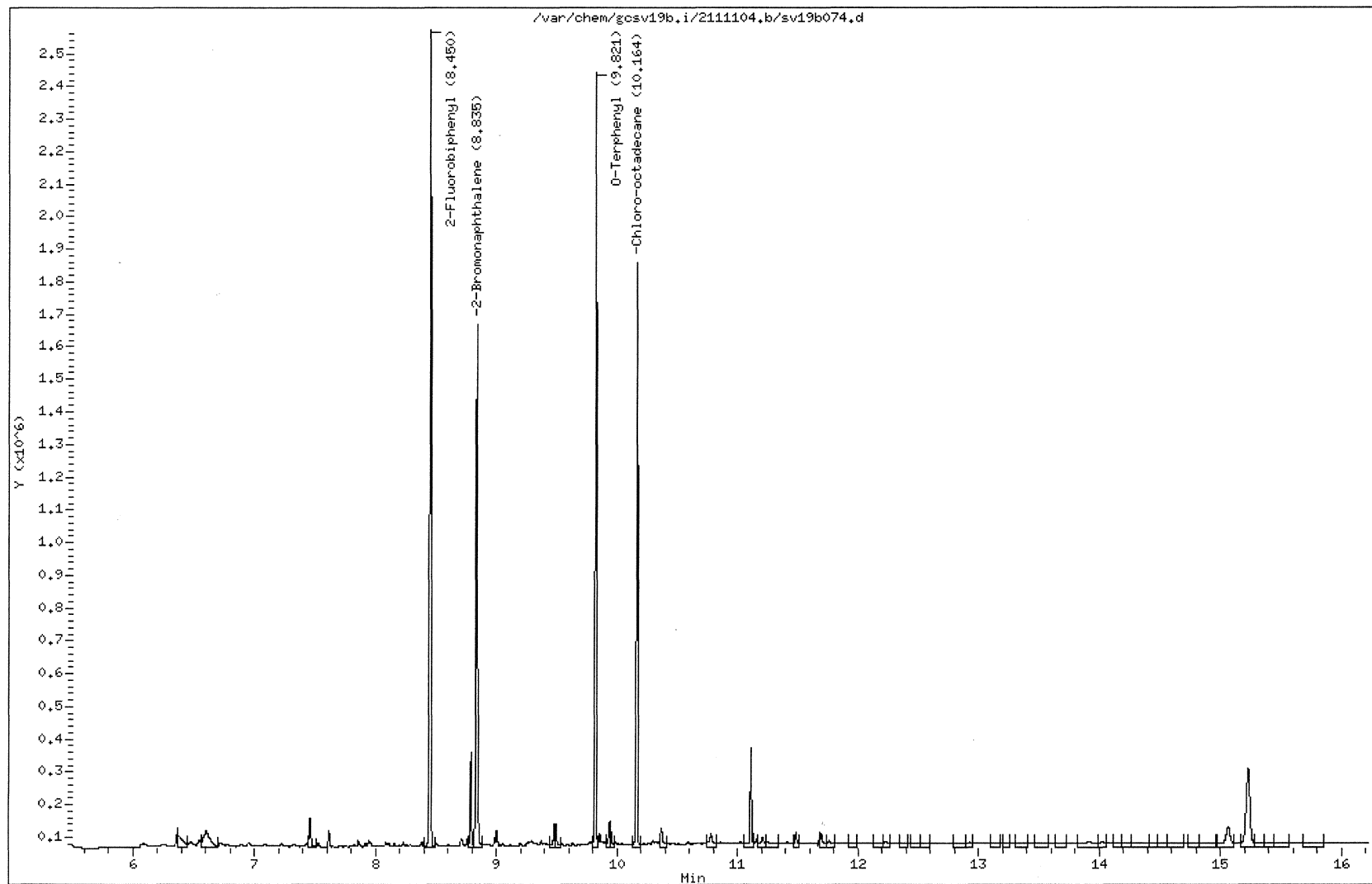
Data File: /var/chem/gosv19b.i/2111104.b/sv19b074.d
Date : 04-NOV-2011 19:25
Client ID: 1
Sample Info: 21110312405x1
Volume Injected (uL): 1.0
Column phase: DB-5MS-30M

Page 1

Instrument: gosv19b.i

Operator: smh

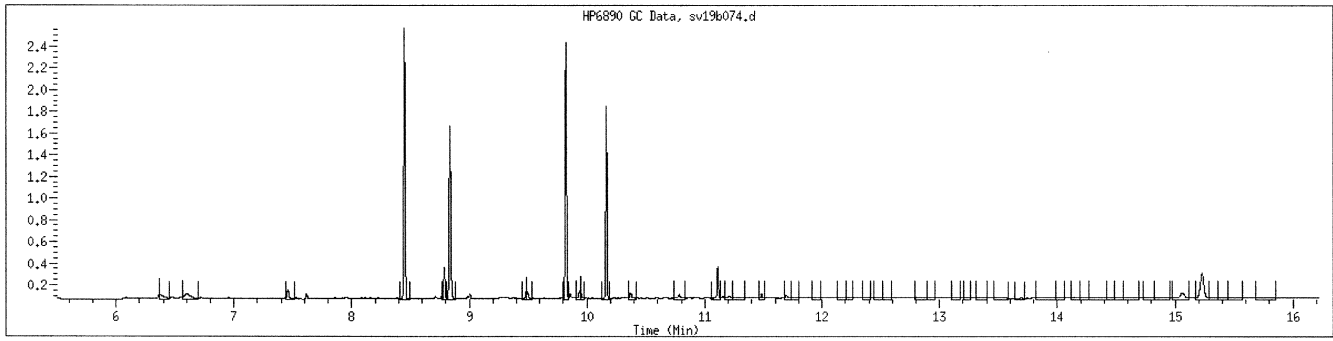
Column diameter: 0.25



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312405 SampleType : SAMPLE
Injection Date: 11/04/2011 19:25 Instrument : gcsv19b.i
Operator : smh
Sample Info : 21110312405*1
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/AROEPMass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b075.d
 Lab Smp Id: 21110312405 Client Smp ID: 1
 Inj Date : 04-NOV-2011 19:49
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312405*1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 13:57 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 75
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	960.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
10 C-18	9.492	9.504	-0.012	36214676	11.9865	25.0 (M1)
M 11 Alip C9-C18				36214676	11.9865	25.0
114 C-36	10.160	15.145	-4.985	56230123	19.2198	40.0 (AM1)
M 24 Alip C19-C36				56230123	19.2198	40.0

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M1- Compound response manually integrated because Target system did not integrate.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b075s.d
Lab Smp Id: 21110312405 Client Smp ID: 1
Inj Date : 04-NOV-2011 19:49
Operator : smh Inst ID: gcsv19b.i
Smp Info : 21110312405*1
Misc Info :
Comment :
Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
Meth Date : 08-Nov-2011 13:57 smh Quant Type: ESTD
Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
Als bottle: 75
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: Chloro.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	960.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (UG/ML)	FINAL (ug/L)
\$ 15 Chlorooctadecane	10.160	10.217	-0.057	12802649	4.67321	9.74 (R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcsv19b.i/2111104,b/sv19b075.d

Page 1

Date : 04-NOV-2011 19:49

Client ID: 1

Instrument: gcsv19b.i

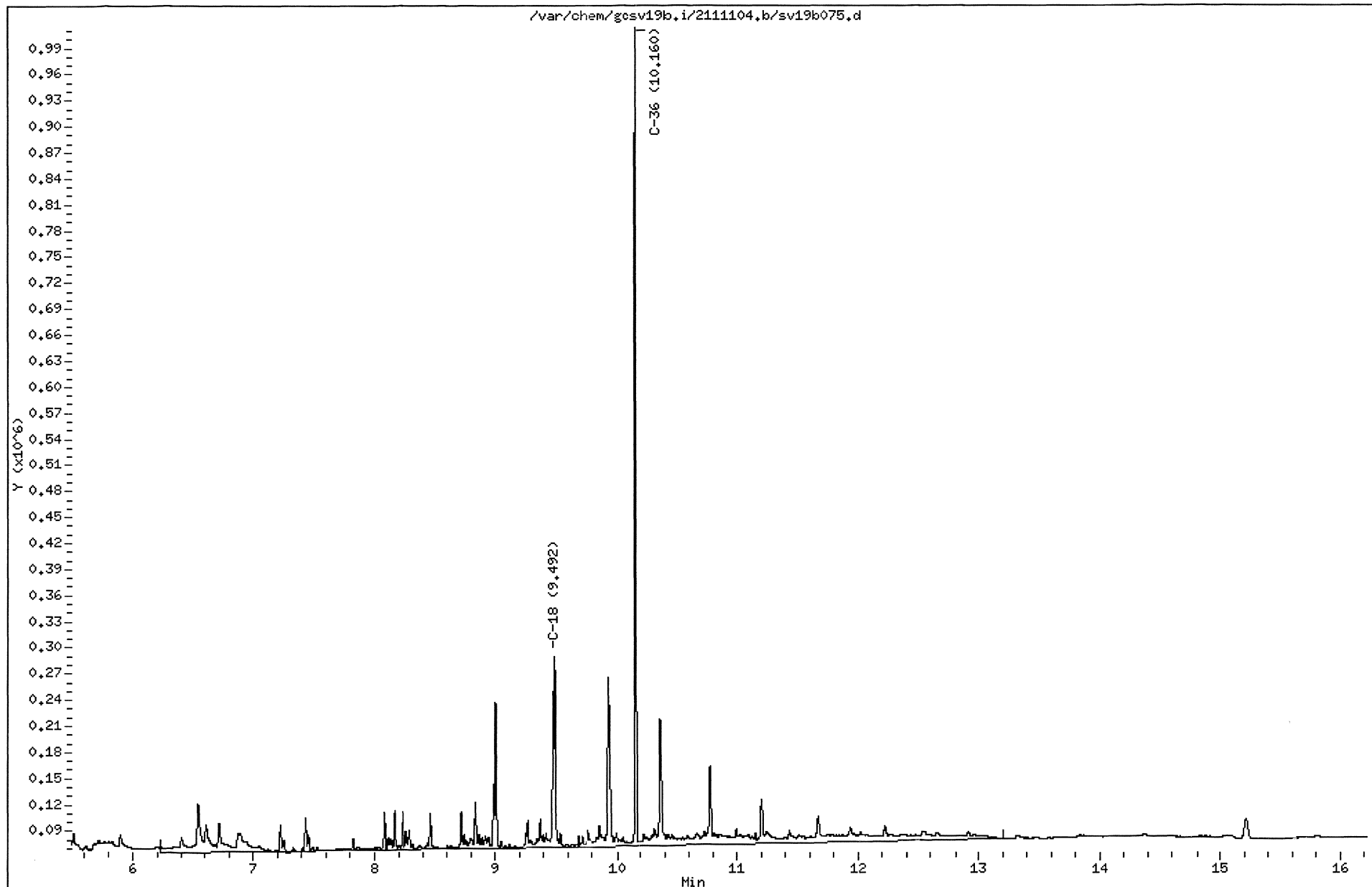
Sample Info: 21110312405*1

Volume Injected (uL): 1.0

Operator: smh

Column phase: DB-5MS-30M

Column diameter: 0.25

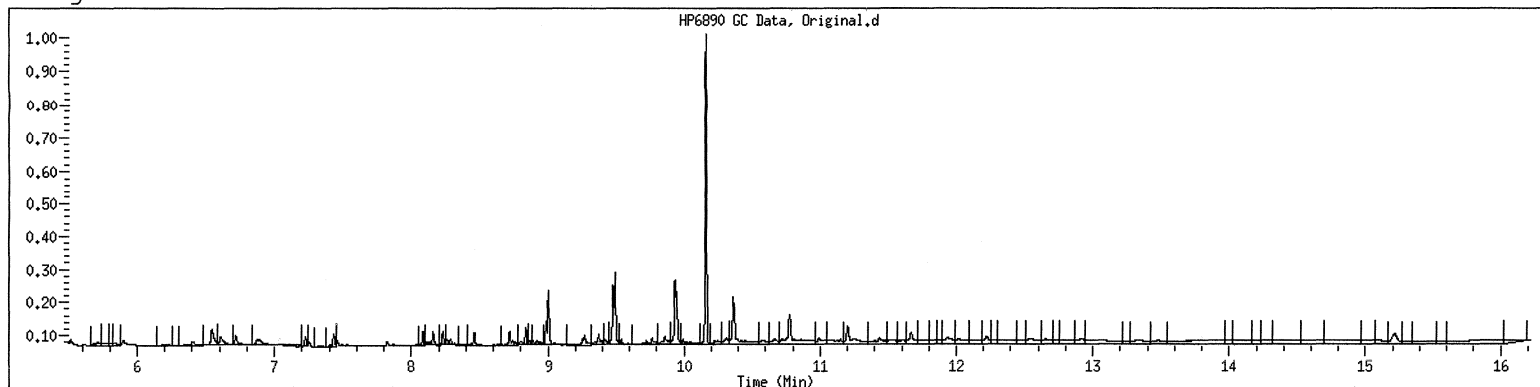


211103124 33

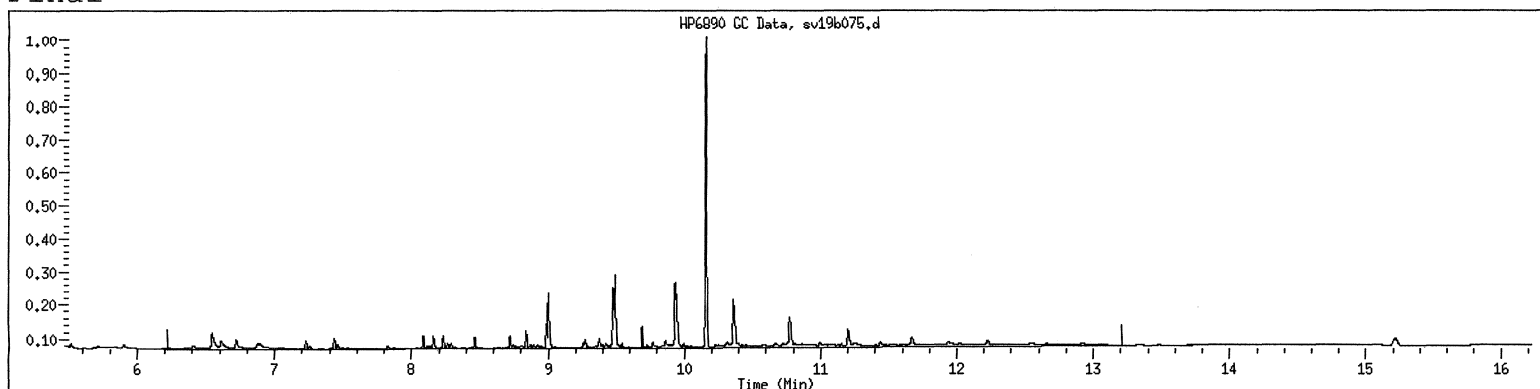
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312405 SampleType : SAMPLE
Injection Date: 11/04/2011 19:49 Instrument : gcsv19b.i
Operator : smh
Sample Info : 21110312405*1
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph

Original



Final



GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-NOV-2011 12:55
 End Cal Date : 03-NOV-2011 14:30
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Cal Date : 08-Nov-2011 14:38 smh
 Curve Type : Average

Calibration File Names:

Level 1: /var/chem/gcsv19b.i/2111103.b/sv19b052.d
 Level 2: /var/chem/gcsv19b.i/2111103.b/sv19b053.d
 Level 3: /var/chem/gcsv19b.i/2111103.b/sv19b054.d
 Level 4: /var/chem/gcsv19b.i/2111103.b/sv19b055.d
 Level 5: /var/chem/gcsv19b.i/2111103.b/sv19b056.d

Compound	1.000 Level 1	10.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRF	% RSD
1 C-9	2907155	2795641	2675594	2679051	2539259	2719340	5.104
2 C-10	2799368	2826425	2717674	2752582	2600027	2739215	3.226
3 C-11	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 C-12	2927391	2898654	2764473	2774841	2641941	2801460	4.102
5 C-13	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 C-14	2986461	2962295	2862352	2862981	2716594	2878136	3.701
7 C-15	+++++	+++++	+++++	+++++	+++++	+++++	+++++
8 C-16	3076201	3075973	2956170	2972906	2834259	2983102	3.364
9 C-17	+++++	+++++	+++++	+++++	+++++	+++++	+++++
10 C-18	3132014	3109313	2986762	3012326	2866031	3021289	3.526
M 11 Alip C9-C18	2971432	2944717	2827171	2842448	2699685	2857090	3.779
12 C-19	3105166	3106510	2982171	3015246	2877102	3017239	3.169
13 C-20	3095123	3146395	3018289	3051261	2915502	3045314	2.859
14 C-21	+++++	+++++	+++++	+++++	+++++	+++++	+++++
16 C-22	3086197	3160319	3040998	3073189	2942532	3060647	2.587
17 C-23	+++++	+++++	+++++	+++++	+++++	+++++	+++++
18 C-24	3088147	3182819	3098256	3124206	2998582	3098402	2.157
19 C-25	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 C-26	3093703	3199157	3120962	3153549	3033072	3120089	2.004
21 C-27	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 C-28	3086943	3160312	3086851	3125844	3019987	3095987	1.692
115 C-30	3100257	3187831	3112669	3153703	3047243	3120341	1.716

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-NOV-2011 12:55
 End Cal Date : 03-NOV-2011 14:30
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Cal Date : 08-Nov-2011 14:38 smh
 Curve Type : Average

Compound	1.000 Level 1	10.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRF	% RSD
23 C-35	+++++	+++++	+++++	+++++	+++++	+++++	+++++
114 C-36	2886196	3002979	2951503	2961566	2825927	2925634	2.383
M 24 Alip C19-C36	3067716	3143290	3051462	3082321	2957493	3060457	2.196
\$ 15 Chlorooctadecane	2745086	2791763	2723572	2771406	2666079	2739581	1.772

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111103.b/sv19b052.d
 Lab Smp Id: 1201 Client Smp ID: 1 84-15-4
 Inj Date : 03-NOV-2011 12:55
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1201*1 84-16-1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 09:16 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 12:55 Cal File: sv19b052.d
 Als bottle: 52 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 C-9	6.222	6.232	-0.010	2907155	1.00000	1.00 (M2)
2 C-10	6.925	6.929	-0.004	2799368	1.00000	1.00 (M2)
4 C-12	7.823	7.833	-0.010	2927391	1.00000	1.00 (M2)
6 C-14	8.462	8.471	-0.009	2986461	1.00000	1.00 (M2)
8 C-16	9.008	9.014	-0.006	3076201	1.00000	1.00 (M2)
10 C-18	9.502	9.504	-0.002	3132014	1.00000	1.00 (M2)
M 11 Alip C9-C18				17828590	6.00000	6.00
12 C-19	9.738	9.774	-0.036	3105166	1.00000	1.00 (M2)
13 C-20	9.965	9.957	0.008	3095123	1.00000	1.00 (M2)
\$ 15 Chlorooctadecane	10.185	10.217	-0.032	2745086	1.00000	1.00 (M2)
16 C-22	10.403	10.384	0.019	3086197	1.00000	1.00 (M2)
18 C-24	10.826	10.796	0.030	3088147	1.00000	1.00 (M2)
20 C-26	11.263	11.223	0.040	3093703	1.00000	1.00 (M2)

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
22 C-28	11.738	11.724	0.014	3086943	1.00000	1.00 (M2)
115 C-30	12.298	12.250	0.048	3100257	1.00000	1.00 (AM2)
114 C-36	15.181	15.144	0.037	2886196	1.00000	1.00 (AM2)
M 24 Alip C19-C36				24541732	8.00000	8.00

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Date : 03-NOV-2011 12:55

Client ID: 1 84-15-4

Sample Info: 1201x1 84-16-1

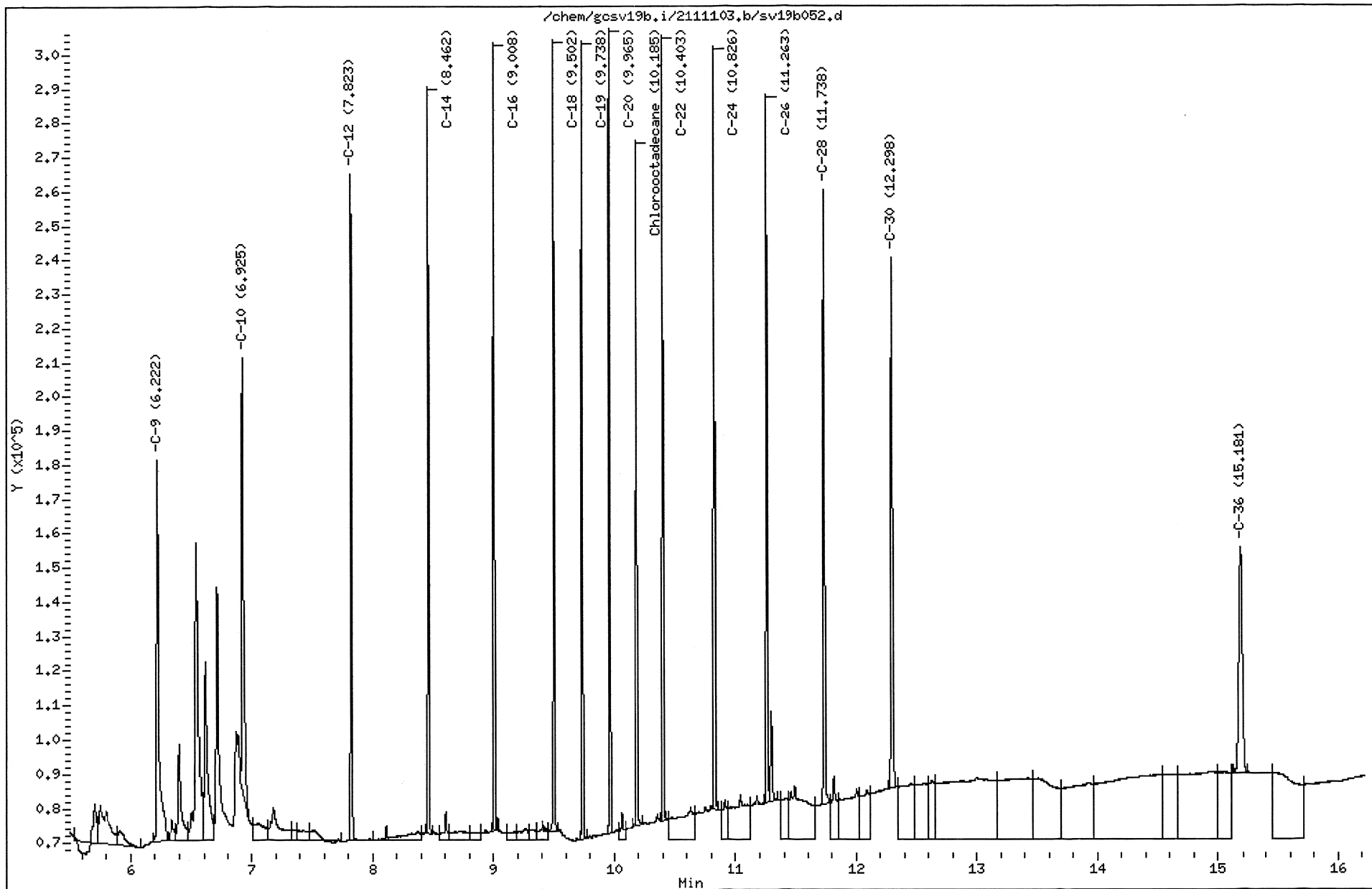
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gcsv19b.i

Operator: smh

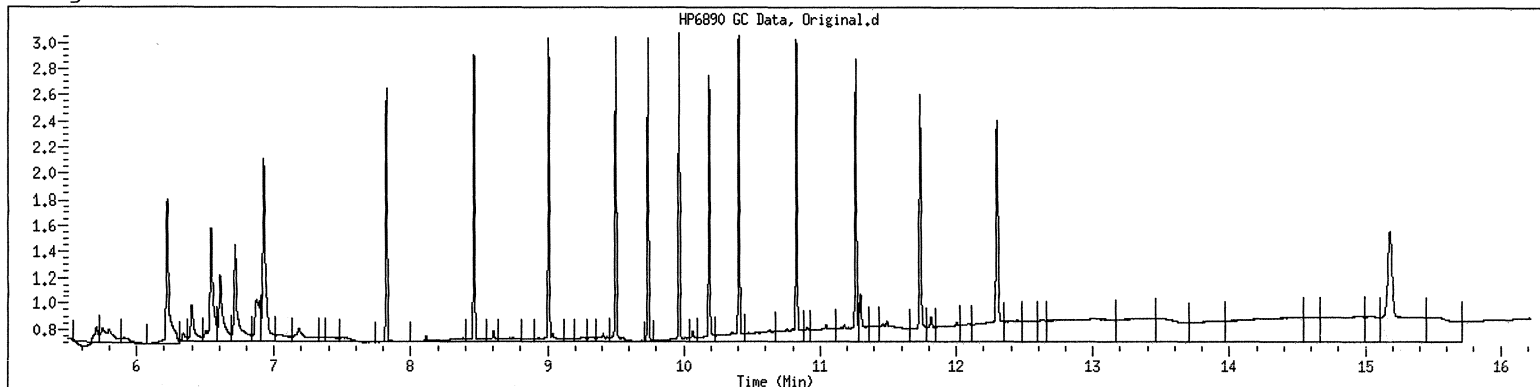
Column diameter: 0.25



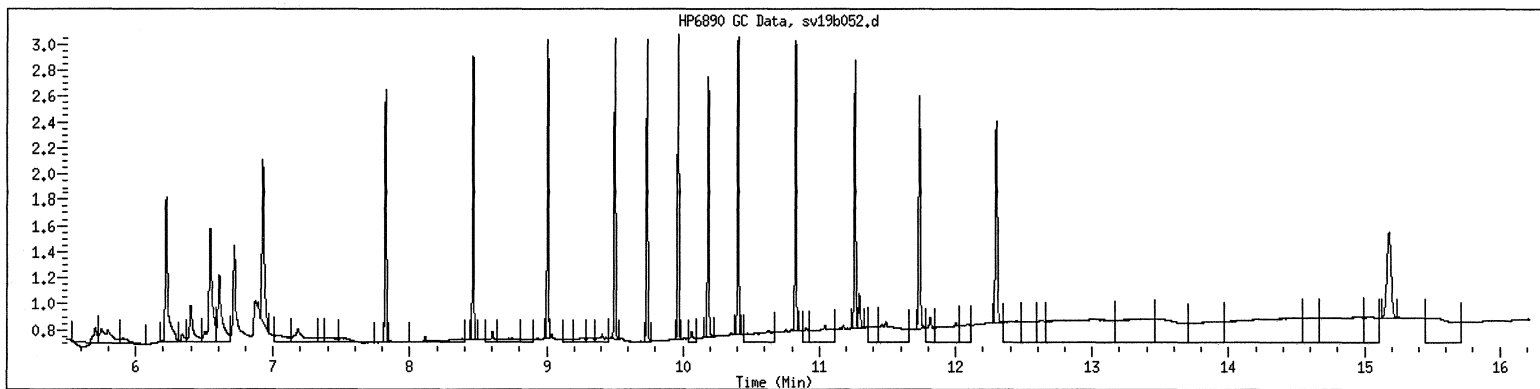
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1201 SampleType : CALIB_1
Injection Date: 11/03/2011 12:55 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1201*1 84-16-1
Misc Info :
Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111103.b/sv19b053.d
 Lab Smp Id: 1202 Client Smp ID: 1 84-15-4
 Inj Date : 03-NOV-2011 13:18
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1202*1 84-16-1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 09:16 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053.d
 Als bottle: 53 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmaseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 C-9	6.225	6.232	-0.007	27956412	10.0000	9.80 (M2)
2 C-10	6.929	6.929	0.000	28264251	10.0000	10.0 (M2)
4 C-12	7.825	7.833	-0.008	28986541	10.0000	9.95 (M2)
6 C-14	8.463	8.471	-0.008	29622947	10.0000	9.96 (M2)
8 C-16	9.005	9.014	-0.009	30759729	10.0000	10.0 (M2)
10 C-18	9.495	9.504	-0.009	31093127	10.0000	9.96 (M2)
M 11 Alip C9-C18				176683007	60.0000	59.7
12 C-19	9.726	9.774	-0.048	31065095	10.0000	10.0 (M2)
13 C-20	9.950	9.957	-0.007	31463953	10.0000	10.1 (M2)
\$ 15 Chlorooctadecane	10.165	10.217	-0.052	27917627	10.0000	10.1 (M2)
16 C-22	10.379	10.384	-0.005	31603189	10.0000	10.1 (M2)
18 C-24	10.792	10.796	-0.004	31828188	10.0000	10.2 (M2)
20 C-26	11.219	11.223	-0.004	31991568	10.0000	10.2 (M2)

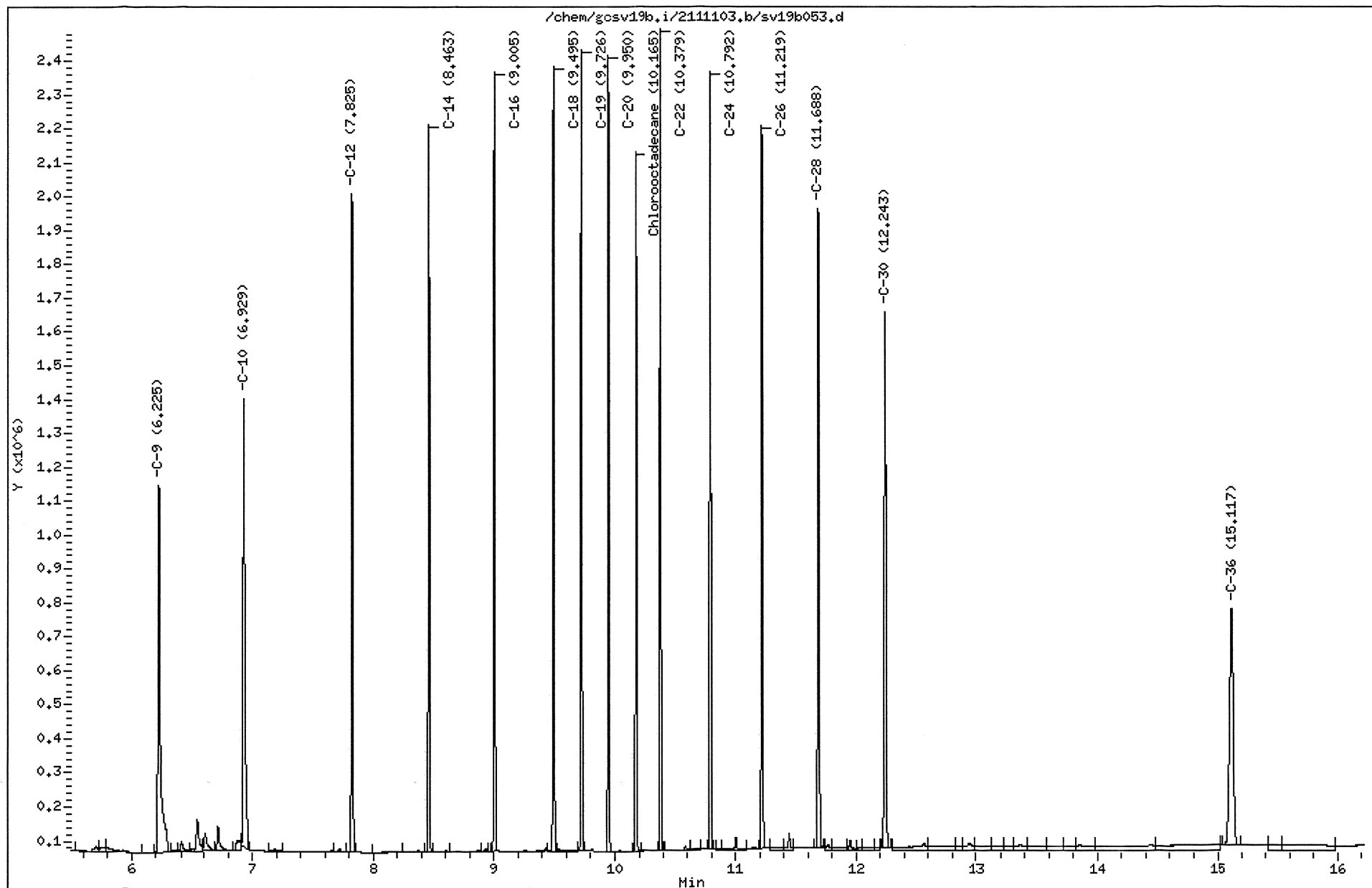
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
22 C-28	11.688	11.724	-0.036	31603121	10.0000	10.1 (M2)
115 C-30	12.243	12.250	-0.007	31878310	10.0000	10.1 (AM2)
114 C-36	15.117	15.144	-0.027	30029788	10.0000	10.2 (AM2)
M 24 Alip C19-C36				251463212	80.0000	81.0

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Data File: /chem/gcsv19b.i/2111103,b/sv19b053.d
Date : 03-NOV-2011 13:18
Client ID: 1 84-15-4
Sample Info: 1202x1 84-16-1
Volume Injected (uL): 1.0
Column phase: DB-5MS-30M

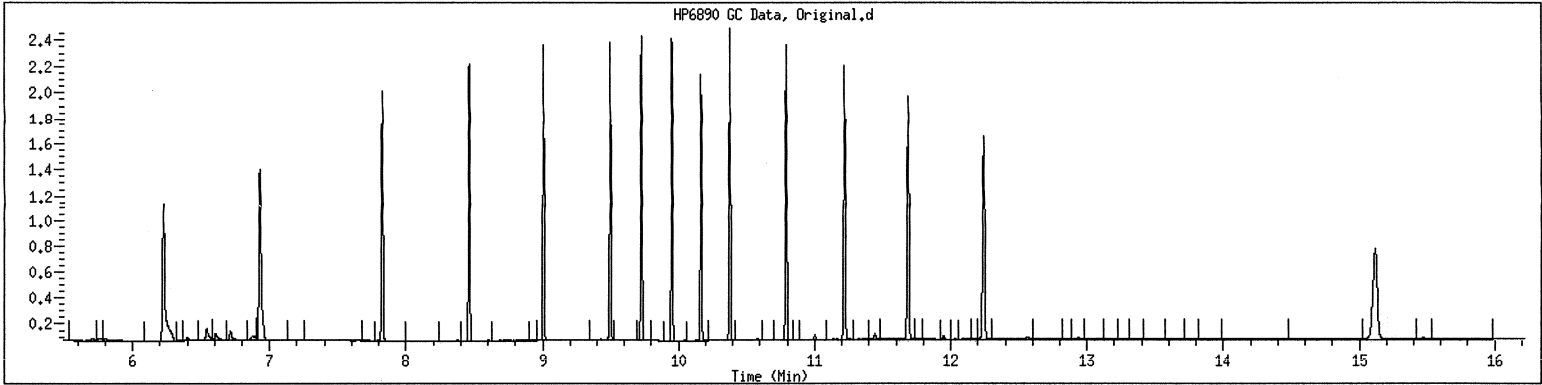
Instrument: gcsv19b.i
Operator: smh
Column diameter: 0.25



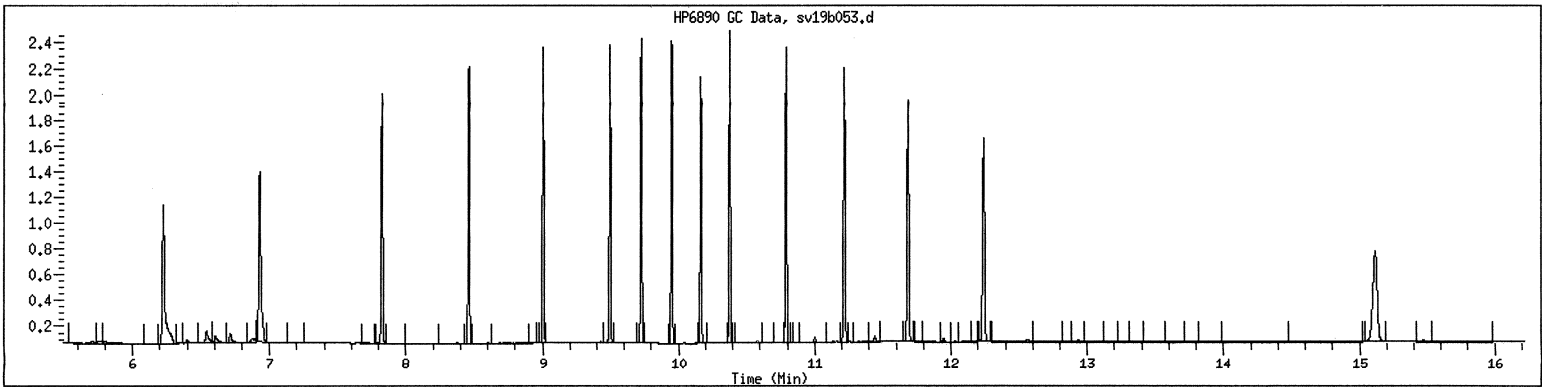
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1202
Injection Date: 11/03/2011 13:18
Operator : smh
Sample Info : 1202*1 84-16-1
Misc Info :
Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie
SampleType : CALIB_2
Instrument : gcsv19b.i
Compound Sublist: ALmasseph

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111103.b/sv19b054.d
 Lab Smp Id: 1203 Client Smp ID: 1 84-15-4
 Inj Date : 03-NOV-2011 13:42
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1203*1 84-16-1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 09:16 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:42 Cal File: sv19b054.d
 Als bottle: 54 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 C-9	6.230	6.232	-0.002	133779709	50.0000	47.9
2 C-10	6.931	6.929	0.002	135883716	50.0000	48.9
4 C-12	7.828	7.833	-0.005	138223627	50.0000	48.3
6 C-14	8.466	8.471	-0.005	143117588	50.0000	48.7
8 C-16	9.008	9.014	-0.006	147808492	50.0000	48.7
10 C-18	9.497	9.504	-0.007	149338101	50.0000	48.5
M 11 Alip C9-C18				848151233	300.000	291
12 C-19	9.729	9.774	-0.045	149108539	50.0000	48.7
13 C-20	9.951	9.957	-0.006	150914449	50.0000	48.9
\$ 15 Chlorooctadecane	10.165	10.217	-0.052	136178585	50.0000	49.5
16 C-22	10.378	10.384	-0.006	152049887	50.0000	49.1
18 C-24	10.789	10.796	-0.007	154912784	50.0000	49.6
20 C-26	11.216	11.223	-0.007	156048078	50.0000	49.7

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
22 C-28	11.684	11.724	-0.040	154342550	50.0000	49.6
115 C-30	12.240	12.250	-0.010	155633447	50.0000	49.7 (A)
114 C-36	15.131	15.144	-0.013	147575152	50.0000	50.1 (A)
M 24 Alip C19-C36				1220584886	400.000	395

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Date : 03-NOV-2011 13:42

Client ID: 1 84-15-4

Sample Info: 1203*1 84-16-1

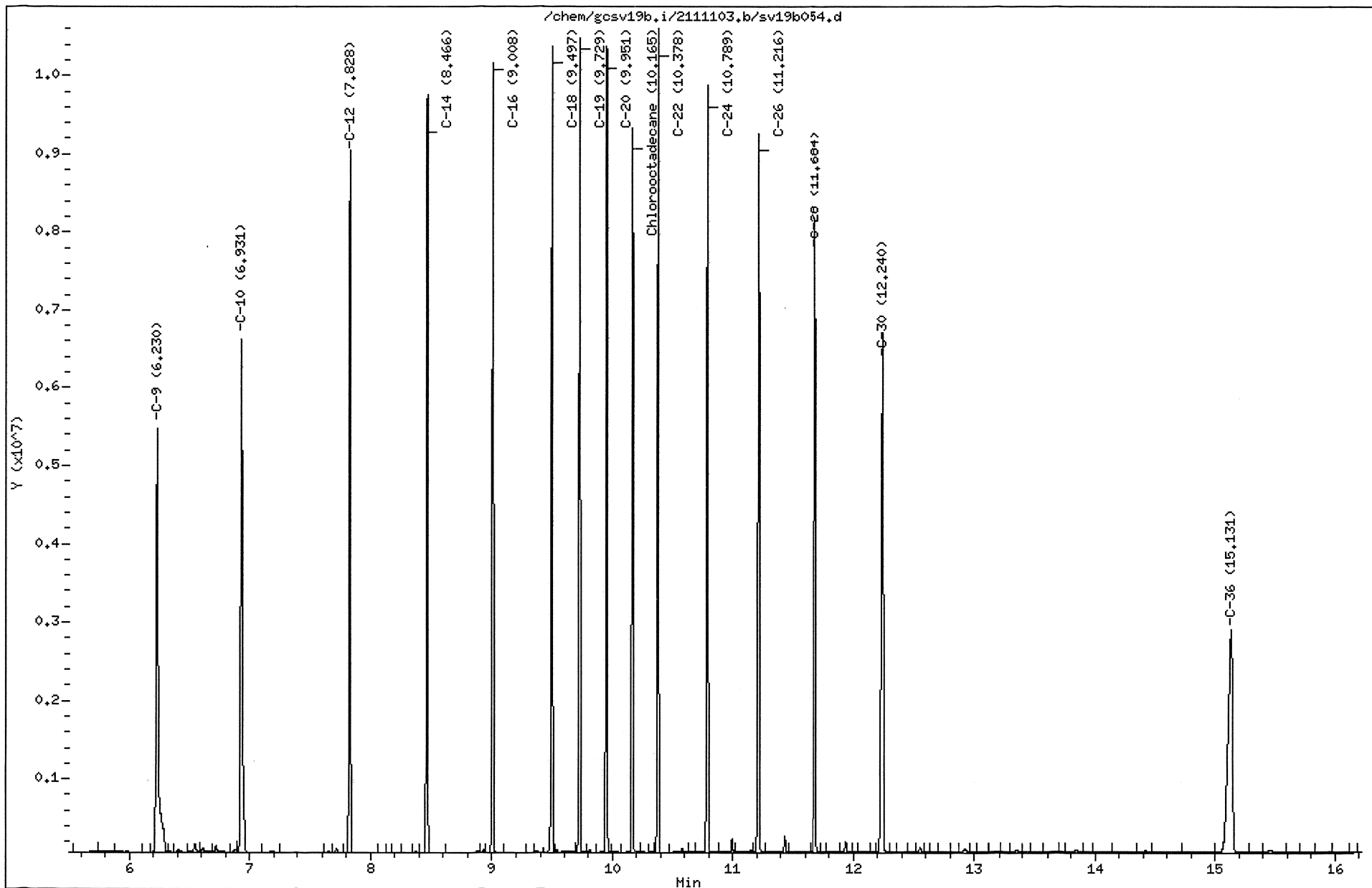
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gosv19b.i

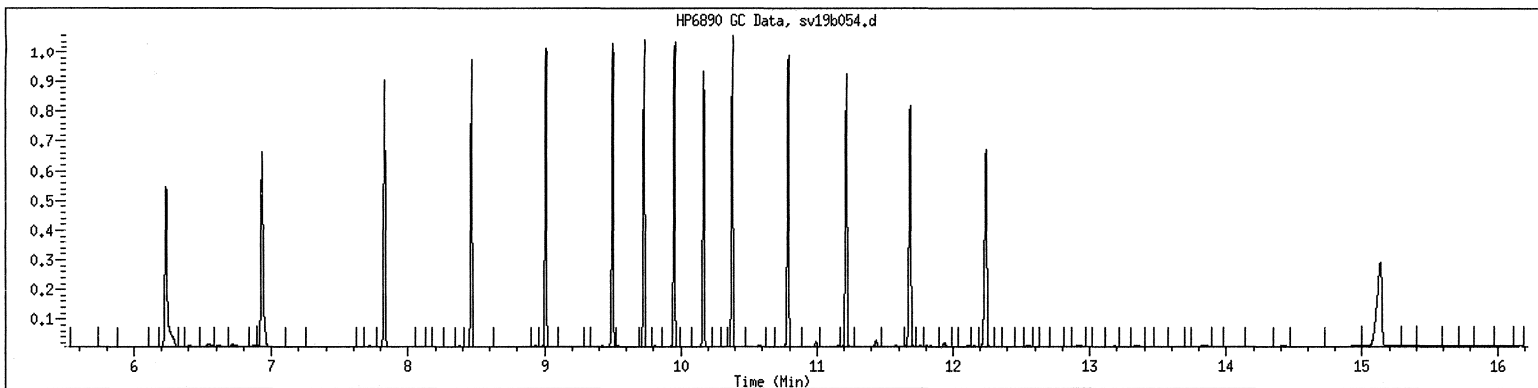
Operator: sah

Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1203 SampleType : CALIB_3
Injection Date: 11/03/2011 13:42 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1203*1 84-16-1
Misc Info :
Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111103.b/sv19b055.d
 Lab Smp Id: 1204 Client Smp ID: 1 84-15-4
 Inj Date : 03-NOV-2011 14:06
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1204*1 84-16-1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 09:16 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:06 Cal File: sv19b055.d
 Als bottle: 55 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmaseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 C-9	6.234	6.232	0.002	267905092	100.000	96.9
2 C-10	6.936	6.929	0.007	275258180	100.000	99.2
4 C-12	7.831	7.833	-0.002	277484130	100.000	97.7
6 C-14	8.469	8.471	-0.002	286298081	100.000	98.1
8 C-16	9.012	9.014	-0.002	297290630	100.000	98.4
10 C-18	9.502	9.504	-0.002	301232611	100.000	98.4
M 11 Alip C9-C18				1705468724	600.000	589
12 C-19	9.733	9.774	-0.041	301524643	100.000	98.8
13 C-20	9.957	9.957	0.000	305126115	100.000	99.1
§ 15 Chlorooctadecane	10.172	10.217	-0.045	277140629	100.000	100
16 C-22	10.385	10.384	0.001	307318934	100.000	99.5
18 C-24	10.798	10.796	0.002	312420640	100.000	100
20 C-26	11.227	11.223	0.004	315354910	100.000	100

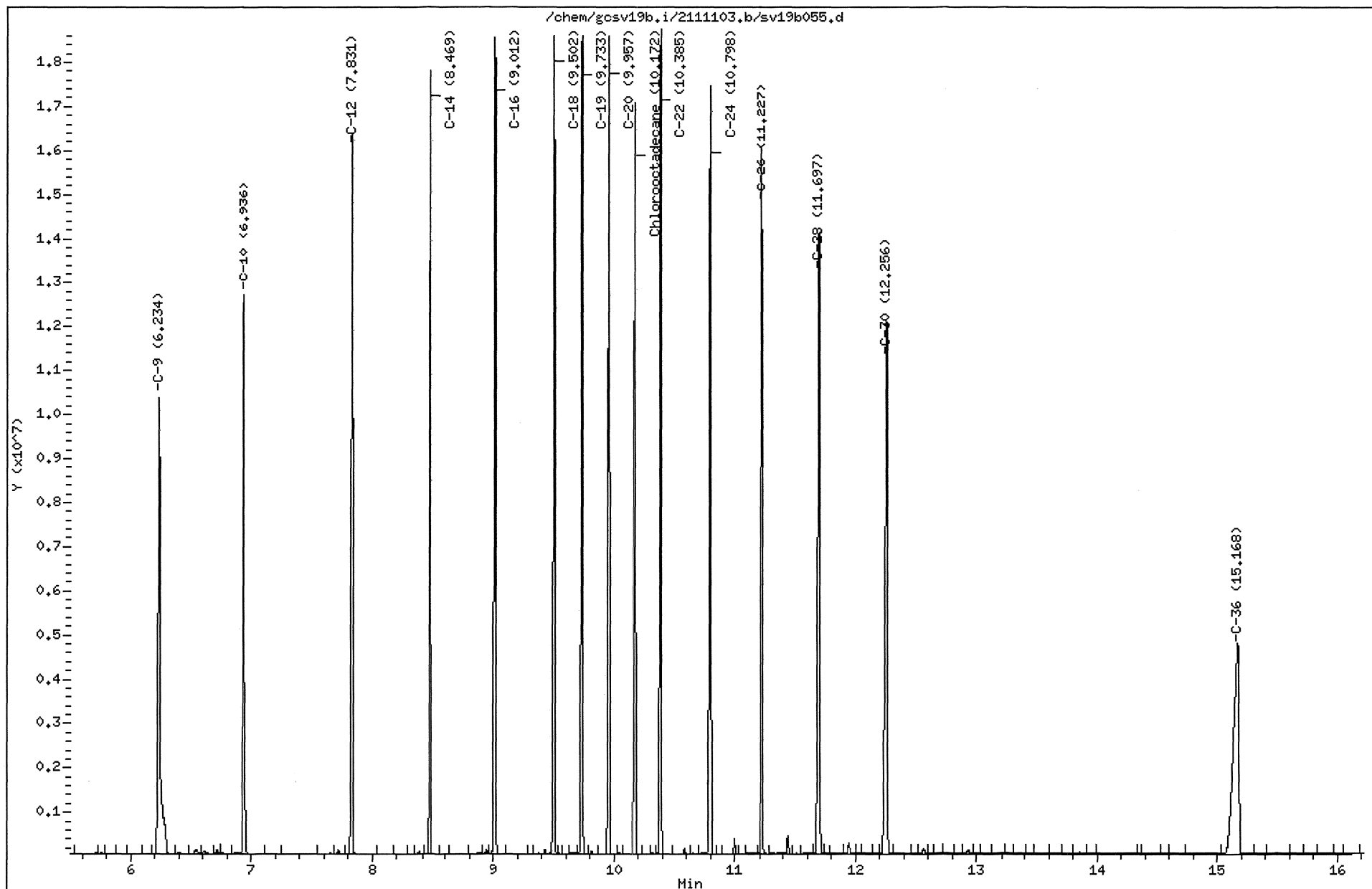
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
22 C-28	11.697	11.724	-0.027	312584380	100.000	100
115 C-30	12.256	12.250	0.006	315370277	100.000	100 (A)
114 C-36	15.168	15.144	0.024	296156565	100.000	100 (A)
M 24 Alip C19-C36				2465856464	800.000	799

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

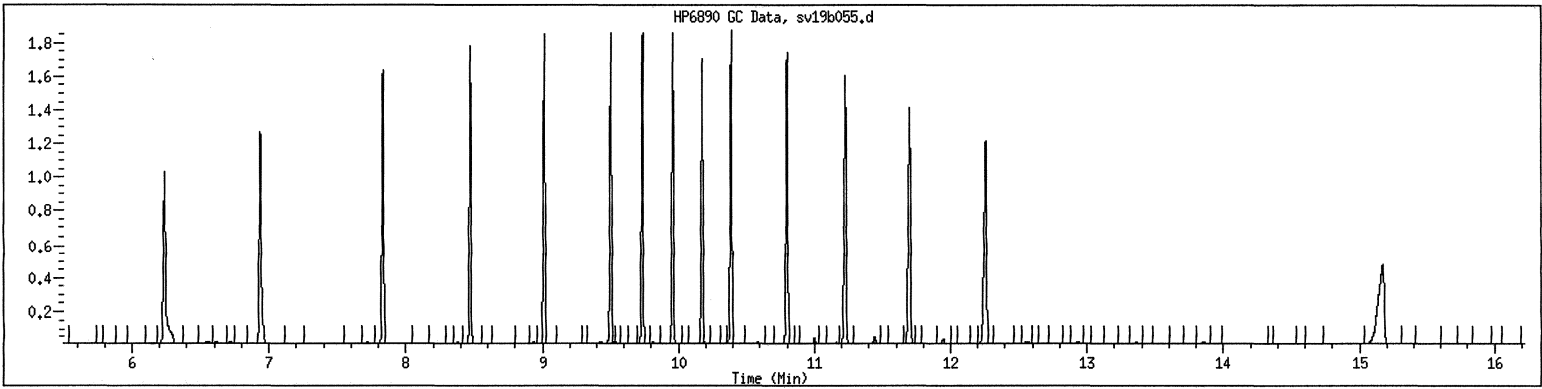
Data File: /chem/gcsv19b,i/2111103,b/sv19b055,d
Date : 03-NOV-2011 14:06
Client ID: 1 84-15-4
Sample Info: 1204*1 84-16-1
Volume Injected (uL): 1.0
Column phase: DB-5MS-30M

Instrument: gcsv19b.i
Operator: smh
Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1204 SampleType : CALIB_4
Injection Date: 11/03/2011 14:06 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1204*1 84-16-1
Misc Info :
Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmaseph



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111103.b/sv19b056.d
 Lab Smp Id: 1205 Client Smp ID: 1 84-15-4
 Inj Date : 03-NOV-2011 14:30
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1205*1 84-16-1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 09:16 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 56 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmaseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 C-9	6.235	6.232	0.003	507851786	200.000	187
2 C-10	6.940	6.929	0.011	520005449	200.000	190
4 C-12	7.836	7.833	0.003	528388238	200.000	189
6 C-14	8.473	8.471	0.002	543318717	200.000	189
8 C-16	9.016	9.014	0.002	566851761	200.000	190
10 C-18	9.505	9.504	0.001	573206156	200.000	190
M 11 Alip C9-C18				3239622107	1200.00	1130
12 C-19	9.736	9.774	-0.038	575420346	200.000	191
13 C-20	9.959	9.957	0.002	583100339	200.000	191
§ 15 Chlorooctadecane	10.174	10.217	-0.043	533215722	200.000	195
16 C-22	10.386	10.384	0.002	588506366	200.000	192
18 C-24	10.798	10.796	0.002	599716399	200.000	194
20 C-26	11.226	11.223	0.003	606614444	200.000	194

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
-----	==	=====	=====	=====	=====	=====
22 C-28	11.698	11.724	-0.026	603997432	200.000	195
115 C-30	12.259	12.250	0.009	609448655	200.000	195 (A)
114 C-36	15.188	15.144	0.044	565185453	200.000	193 (A)
M 24 Alip C19-C36				4731989434	1600.00	1550

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Date : 03-NOV-2011 14:30

Client ID: 1 84-15-4

Sample Info: 1205x1 84-16-1

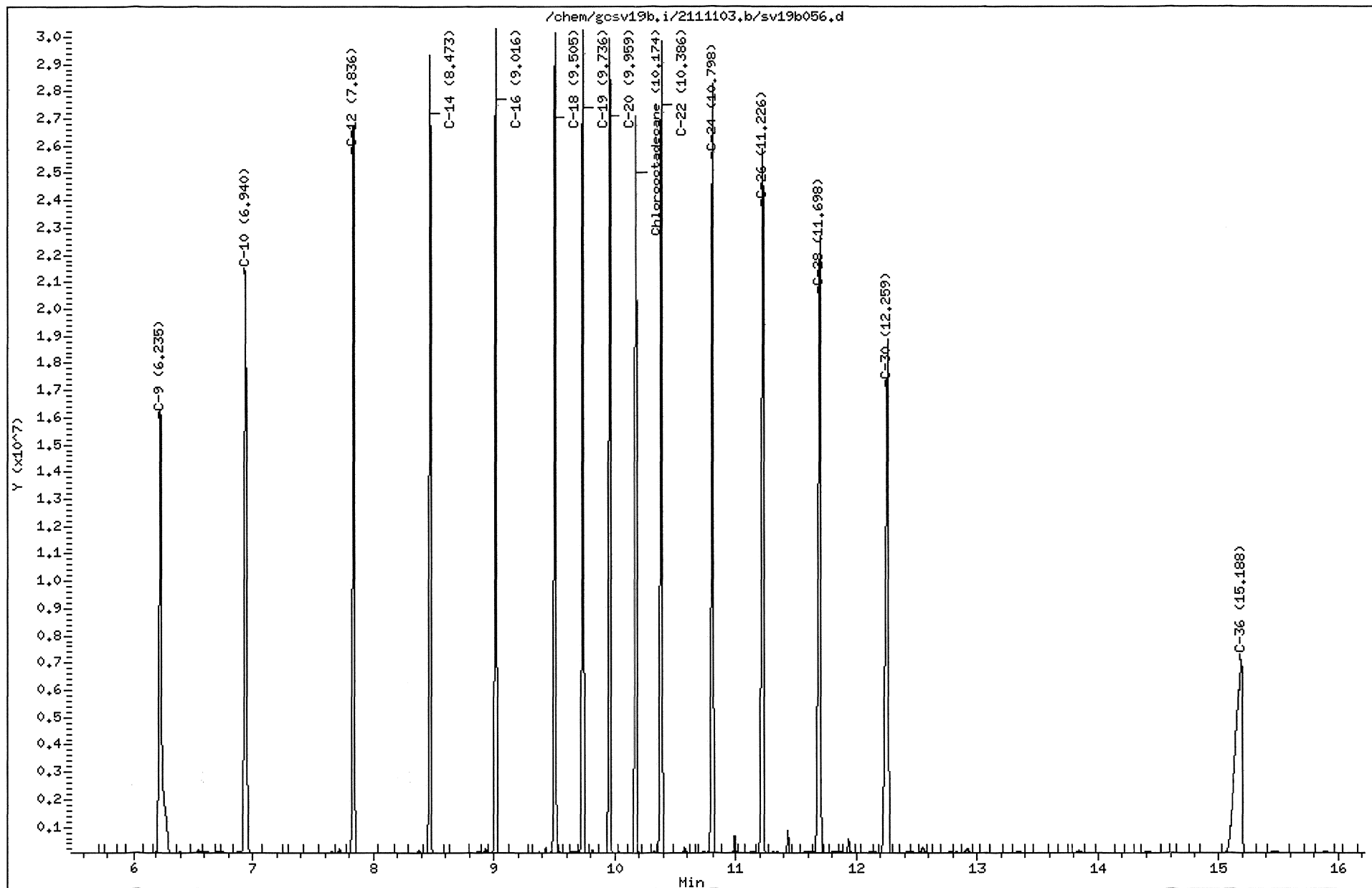
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gcsv19b.i

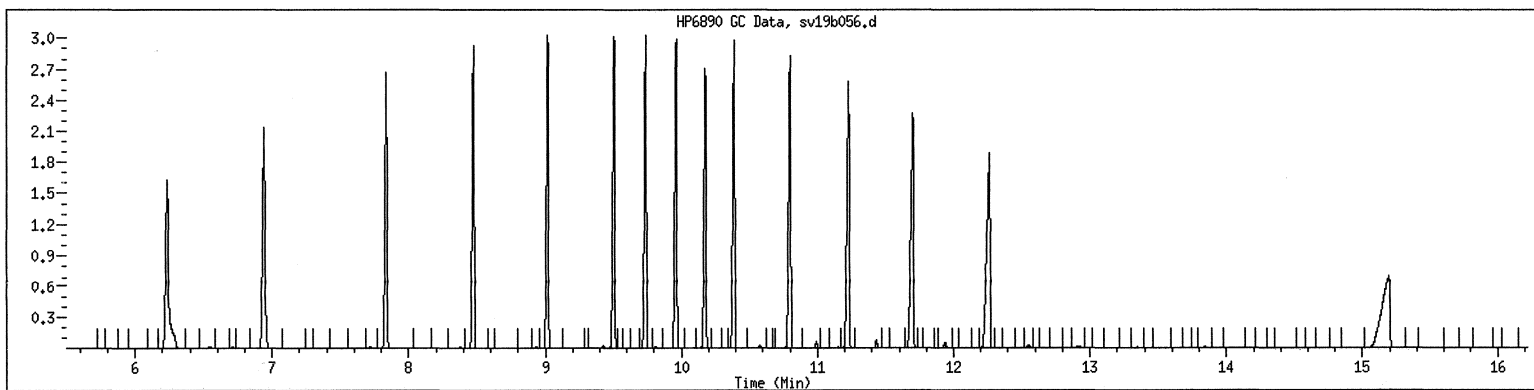
Operator: smh

Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1205 SampleType : CALIB_5
Injection Date: 11/03/2011 14:30 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1205*1 84-16-1
Misc Info :
Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmaseph



NO MANUAL INTEGRATIONS

GCAL, Inc.

RECOVERY REPORT

Client Name: Client SDG: 2111103
 Sample Matrix: LIQUID Fraction: SV
 Lab Smp Id: 1600 Client Smp ID: 1 84-16-2
 Level: LOW Operator: smh
 Data Type: GC MULTI COMP SampleType: LCS
 SpikeList File: alphicv-new.spk Quant Type: ESTD
 Sublist File: ALmasseph.sub
 Method File: /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
 Misc Info:

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 C-9	50.0	46.8	93.57	75-125
2 C-10	50.0	48.1	96.14	75-125
4 C-12	50.0	47.6	95.30	75-125
6 C-14	50.0	47.2	94.33	75-125
8 C-16	50.0	47.1	94.27	75-125
10 C-18	50.0	48.3	96.60	75-125
12 C-19	50.0	49.1	98.26	75-125
13 C-20	50.0	49.1	98.17	75-125
16 C-22	50.0	49.5	98.94	75-125
18 C-24	50.0	49.0	97.98	75-125
20 C-26	50.0	49.0	97.97	75-125
22 C-28	50.0	48.7	97.32	75-125
114 C-36	50.0	50.0	100.09	75-125

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 15 Chlorooctadecane	40000	0.00	*	40-140

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111103.b/sv19b057.d
 Lab Smp Id: 1600 Client Smp ID: 1 84-16-2
 Inj Date : 03-NOV-2011 14:54
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1600*1 84-16-2
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
 Meth Date : 04-Nov-2011 09:50 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 57 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1.00000	Volume of sample extracted (mL)
Vt	1.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 C-9	6.229	6.232	-0.003	127218912	46.7830	46.8
2 C-10	6.931	6.929	0.002	131668495	48.0680	48.1
4 C-12	7.828	7.833	-0.005	133484208	47.6481	47.6
6 C-14	8.466	8.471	-0.005	135740381	47.1626	47.2
8 C-16	9.008	9.014	-0.006	140615142	47.1372	47.1
10 C-18	9.497	9.504	-0.007	145930395	48.3007	48.3
M 11 Alip C9-C18				814657533	285.135	285
12 C-19	9.728	9.774	-0.046	148243248	49.1321	49.1
13 C-20	9.950	9.957	-0.007	149480953	49.0856	49.1
16 C-22	10.377	10.384	-0.007	151407787	49.4692	49.5
18 C-24	10.788	10.796	-0.008	151784501	48.9880	49.0
20 C-26	11.213	11.223	-0.010	152831618	48.9831	49.0
22 C-28	11.681	11.724	-0.043	150648000	48.6591	48.7

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
=====	==	=====	=====	=====	=====	=====
115 C-30	12.224	12.250	-0.026	863815	0.27683	0.277 (A)
114 C-36	15.130	15.144	-0.014	146419842	50.0472	50.0 (A)
M 24 Alip C19-C36				1051679764	343.635	344

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Date : 03-NOV-2011 14:54

Client ID: 1 84-16-2

Instrument: gcsv19b.i

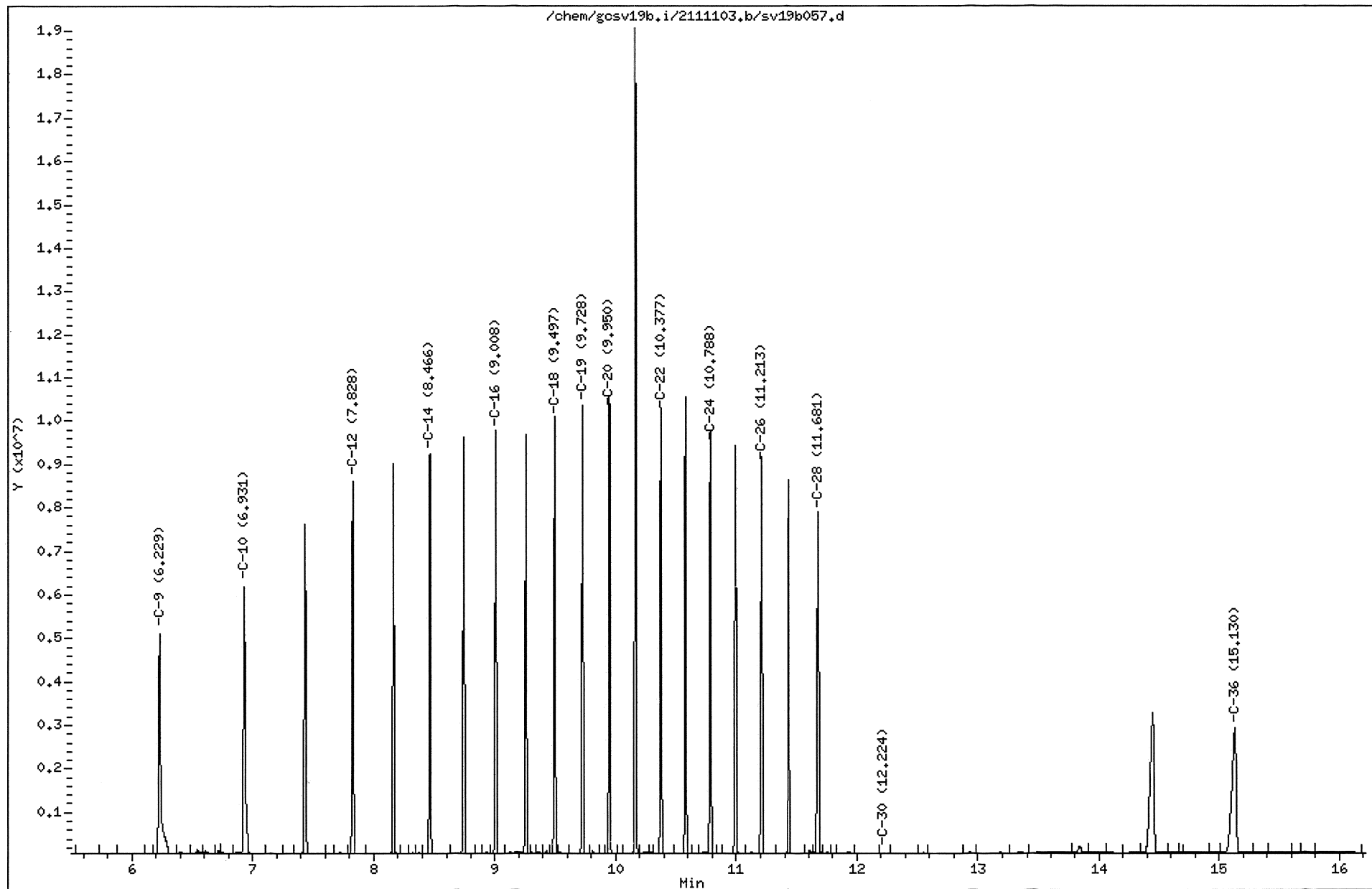
Sample Info: 1600x1 84-16-2

Operator: smh

Volume Injected (uL): 1.0

Column diameter: 0,25

Column phase: DB-5MS-30M

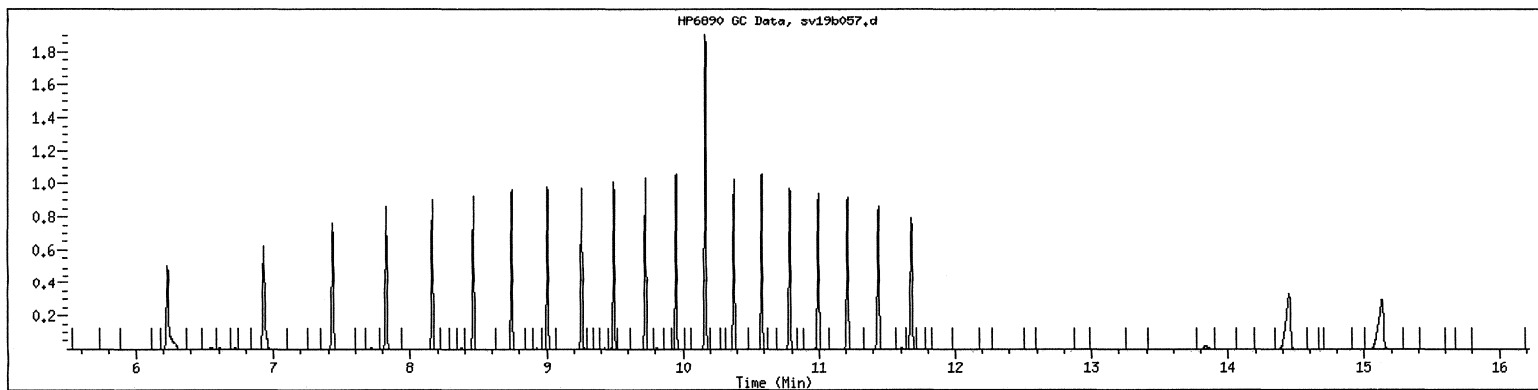


MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1600
Injection Date: 11/03/2011 14:54
Operator : smh
Sample Info : 1600*1 84-16-2
Misc Info :
Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie

SampleType : LCS
Instrument : gcsv19b.i

Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv19b.i Injection Date: 04-NOV-2011 09:12
 Lab File ID: sv19b053.d Init. Cal. Date(s): 03-NOV-2011 03-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 12:55 14:30
 Lab Sample ID: 1400 Quant Type: ESTD
 Method: /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	MAX RRF	%D / %DRIFT	CURVE TYPE
| 1 C-9	| 2719340	| 2365533	| 0.010	| 13.01075	| 25.00000	| Averaged
| 2 C-10	| 2739215	| 2446747	| 0.010	| 10.67710	| 25.00000	| Averaged
| 4 C-12	| 2801460	| 2459169	| 0.010	| 12.21829	| 25.00000	| Averaged
| 6 C-14	| 2878136	| 2530922	| 0.010	| 12.06385	| 25.00000	| Averaged
| 8 C-16	| 2983102	| 2629735	| 0.010	| 11.84563	| 25.00000	| Averaged
| 10 C-18	| 3021289	| 2649368	| 0.010	| 12.31001	| 25.00000	| Averaged
| M 11 Alip C9-C18	| 2857090	| 2513579	| 0.010	| 12.02312	| 25.00000	| Averaged
| 12 C-19	| 3017239	| 2648833	| 0.010	| 12.21005	| 25.00000	| Averaged
| 13 C-20	| 3045314	| 2681325	| 0.010	| 11.95243	| 25.00000	| Averaged
| \$ 15 Chlorooctadecane	| 2739581	| 2405528	| 0.010	| 12.19356	| 25.00000	| Averaged
| 16 C-22	| 3060647	| 2701322	| 0.010	| 11.74016	| 25.00000	| Averaged
| 18 C-24	| 3098402	| 2735843	| 0.010	| 11.70147	| 25.00000	| Averaged
| 20 C-26	| 3120089	| 2767306	| 0.010	| 11.30680	| 25.00000	| Averaged
| 22 C-28	| 3095987	| 2745481	| 0.010	| 11.32130	| 25.00000	| Averaged
| 115 C-30	| 3120341	| 2775943	| 0.010	| 11.03719	| 25.00000	| Averaged
| 114 C-36	| 2925634	| 2622070	| 0.010	| 10.37602	| 25.00000	| Averaged
| M 24 Alip C19-C36	| 3060457	| 2709765	| 0.010	| 11.45879	| 25.00000	| Averaged

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 11.73215
 Maximun Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b053.d
 Lab Smp Id: 1400 Client Smp ID: 1 84-16-1
 Inj Date : 04-NOV-2011 09:12
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1400*1 84-16-1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 13:36 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 53 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmaseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS						
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (UG/ML)	ON-COL (UG/ML)	
1 C-9	6.227	6.232	-0.005	118276670	50.0000	43.5	
2 C-10	6.931	6.929	0.002	122337333	50.0000	44.7	
4 C-12	7.827	7.833	-0.006	122958471	50.0000	43.9	
6 C-14	8.464	8.471	-0.007	126546115	50.0000	44.0	
8 C-16	9.007	9.014	-0.007	131486727	50.0000	44.1	
10 C-18	9.496	9.504	-0.008	132468406	50.0000	43.8	
M 11 Alip C9-C18				754073722	300.000	264	
12 C-19	9.726	9.774	-0.048	132441629	50.0000	43.9	
13 C-20	9.949	9.957	-0.008	134066257	50.0000	44.0	
\$ 15 Chlorooctadecane	10.164	10.216	-0.052	120276424	50.0000	43.9	
16 C-22	10.376	10.384	-0.008	135066104	50.0000	44.1	
18 C-24	10.788	10.796	-0.008	136792174	50.0000	44.1	
20 C-26	11.214	11.223	-0.009	138365315	50.0000	44.3	

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
-----	==	=====	=====	=====	=====	=====
22 C-28	11.682	11.724	-0.042	137274066	50.0000	44.3
115 C-30	12.237	12.249	-0.012	138797128	50.0000	44.5(A)
114 C-36	15.127	15.144	-0.017	131103492	50.0000	44.8(A)
M 24 Alip C19-C36				1083906165	400.000	354

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Date : 04-NOV-2011 09:12

Client ID: 1 84-16-1

Sample Info: 1400*1 84-16-1

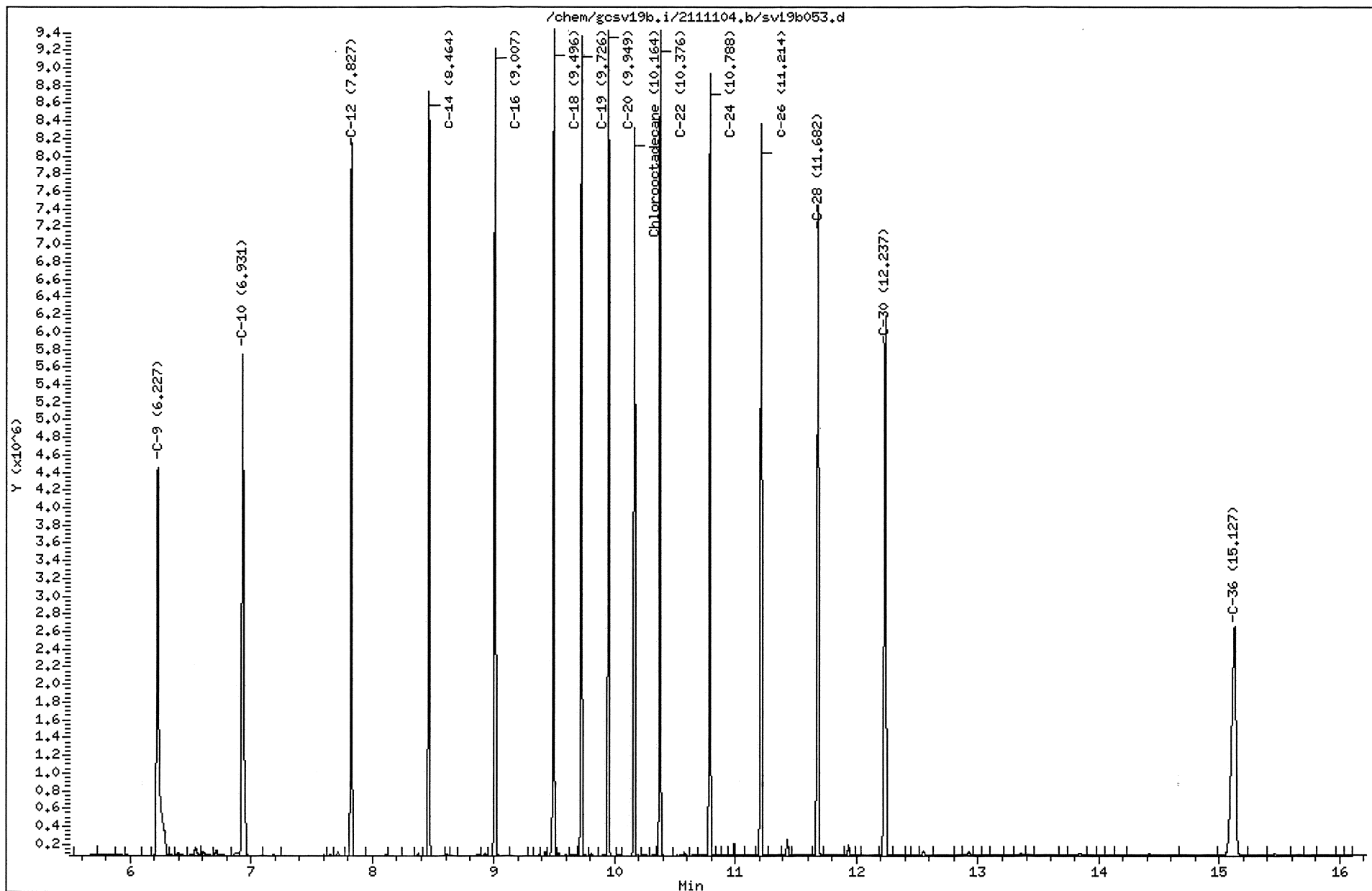
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gcsv19b.i

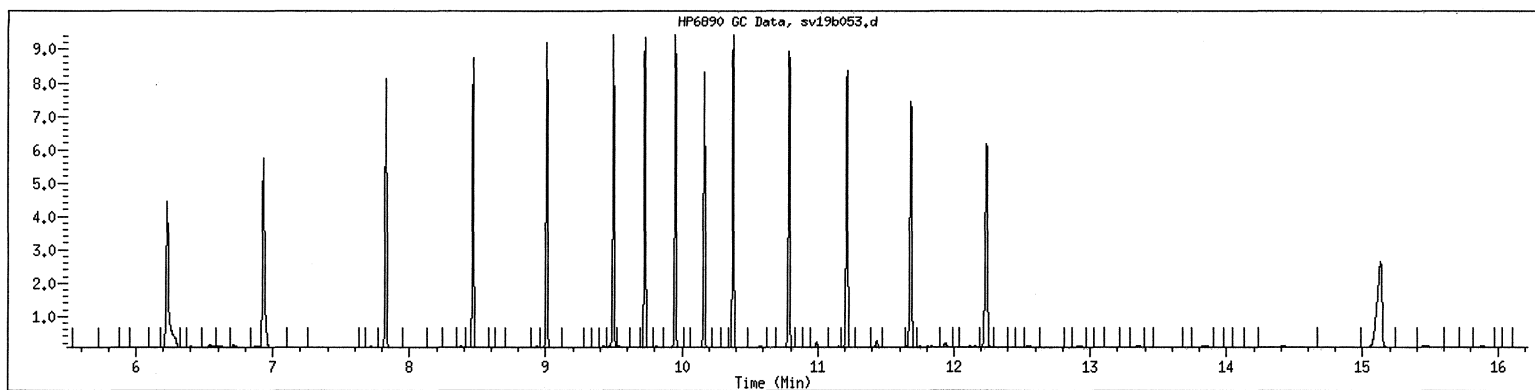
Operator: smh

Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1400 SampleType : CCALIB_3
Injection Date: 11/04/2011 09:12 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1400*1 84-16-1
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv19b.i Injection Date: 04-NOV-2011 15:45
 Lab File ID: sv19b065.d Init. Cal. Date(s): 03-NOV-2011 03-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 12:55 14:30
 Lab Sample ID: 1400 Quant Type: ESTD
 Method: /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	MAX RRF	%D / %DRIFT	CURVE TYPE
| 1 C-9	| 2719340	| 2613264	| 0.010	| 3.90079	| 25.00000	| Averaged
| 2 C-10	| 2739215	| 2663265	| 0.010	| 2.77270	| 25.00000	| Averaged
| 4 C-12	| 2801460	| 2714757	| 0.010	| 3.09493	| 25.00000	| Averaged
| 6 C-14	| 2878136	| 2778305	| 0.010	| 3.46861	| 25.00000	| Averaged
| 8 C-16	| 2983102	| 2885740	| 0.010	| 3.26377	| 25.00000	| Averaged
| 10 C-18	| 3021289	| 2913230	| 0.010	| 3.57658	| 25.00000	| Averaged
| M 11 Alip C9-C18	| 2857090	| 2761427	| 0.010	| 3.34829	| 25.00000	| Averaged
| 12 C-19	| 3017239	| 2917827	| 0.010	| 3.29479	| 25.00000	| Averaged
| 13 C-20	| 3045314	| 2953584	| 0.010	| 3.01216	| 25.00000	| Averaged
| S 15 Chlorooctadecane	| 2739581	| 2685289	| 0.010	| 1.98177	| 25.00000	| Averaged
| 16 C-22	| 3060647	| 2980997	| 0.010	| 2.60239	| 25.00000	| Averaged
| 18 C-24	| 3098402	| 3027070	| 0.010	| 2.30222	| 25.00000	| Averaged
| 20 C-26	| 3120089	| 3050819	| 0.010	| 2.22010	| 25.00000	| Averaged
| 22 C-28	| 3095987	| 3013888	| 0.010	| 2.65180	| 25.00000	| Averaged
| 115 C-30	| 3120341	| 3044490	| 0.010	| 2.43086	| 25.00000	| Averaged
| 114 C-36	| 2925634	| 2871101	| 0.010	| 1.86398	| 25.00000	| Averaged
| M 24 Alip C19-C36	| 3060457	| 2982472	| 0.010	| 2.54813	| 25.00000	| Averaged

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 2.84317
 Maximun Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b065.d
 Lab Smp Id: 1400 Client Smp ID: 1 84-16-1
 Inj Date : 04-NOV-2011 15:45
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1400*1 84-16-1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 13:57 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 65 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmaseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS						
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (UG/ML)	ON-COL (UG/ML)	
1 C-9	6.229	6.232	-0.003	130663219	50.0000	48.0	
2 C-10	6.932	6.929	0.003	133163247	50.0000	48.6	
4 C-12	7.829	7.833	-0.004	135737833	50.0000	48.5	
6 C-14	8.467	8.471	-0.004	138915254	50.0000	48.3	
8 C-16	9.009	9.014	-0.005	144287003	50.0000	48.4	
10 C-18	9.498	9.504	-0.006	145661515	50.0000	48.2	
M 11 Alip C9-C18				828428071	300.000	290	
12 C-19	9.729	9.774	-0.045	145891353	50.0000	48.4	
13 C-20	9.952	9.957	-0.005	147679209	50.0000	48.5	
\$ 15 Chlorooctadecane	10.167	10.217	-0.050	134264437	50.0000	49.0	
16 C-22	10.379	10.384	-0.005	149049847	50.0000	48.7	
18 C-24	10.792	10.796	-0.004	151353497	50.0000	48.8	
20 C-26	11.219	11.223	-0.004	152540965	50.0000	48.9	

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
=====	==	=====	=====	=====	=====	=====
22 C-28	11.687	11.725	-0.038	150694405	50.0000	48.7
115 C-30	12.243	12.250	-0.007	152224481	50.0000	48.8 (A)
114 C-36	15.137	15.145	-0.008	143555045	50.0000	49.1 (A)
M 24 Alip C19-C36				1192988802	400.000	390

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem/gcsv19b.i/2111104.b/sv19b065.d

Page 1

Date : 04-NOV-2011 15:45

Client ID: 1 84-16-1

Instrument: gcsv19b.i

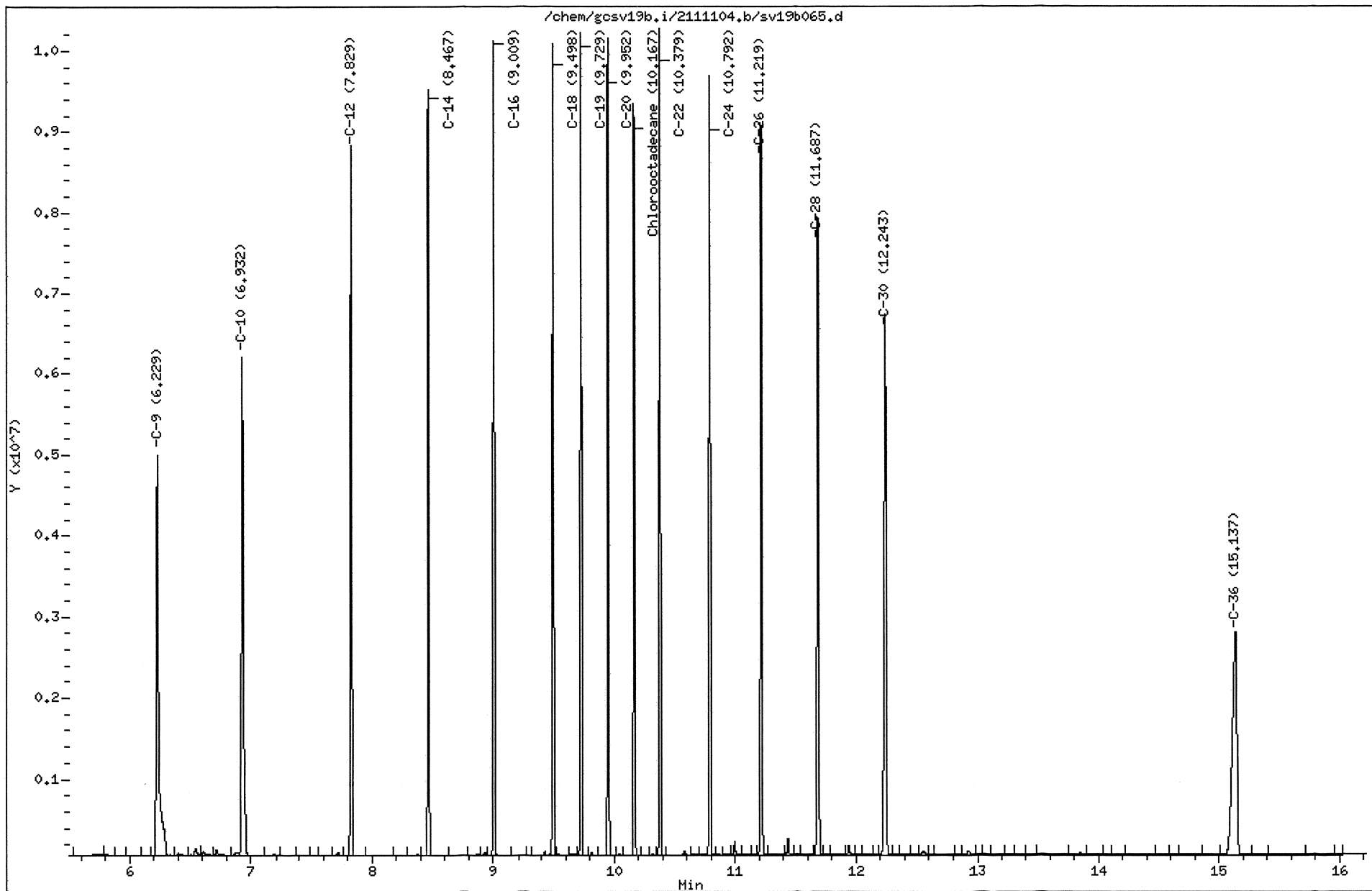
Sample Info: 1400x1 84-16-1

Volume Injected (uL): 1.0

Operator: smh

Column phase: DB-5MS-30M

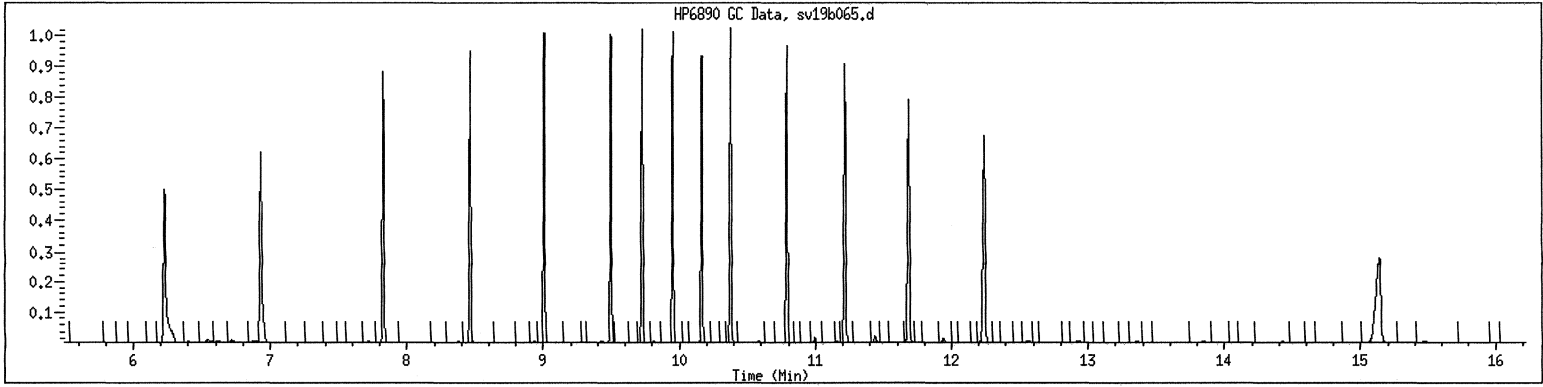
Column diameter: 0.25



211103124 70

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1400 SampleType : CCALIB_3
Injection Date: 11/04/2011 15:45 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1400*1 84-16-1
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv19b.i Injection Date: 04-NOV-2011 21:26
 Lab File ID: sv19b079.d Init. Cal. Date(s): 03-NOV-2011 03-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 12:55 14:30
 Lab Sample ID: 1400 Quant Type: ESTD
 Method: /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	MAX %D / %DRIFT	CURVE TYPE
| 1 C-9	| 2719340	| 2581871	| 0.010	| 5.05525	| Averaged
| 2 C-10	| 2739215	| 2671823	| 0.010	| 2.46029	| Averaged
| 4 C-12	| 2801460	| 2693394	| 0.010	| 3.85748	| Averaged
| 6 C-14	| 2878136	| 2768059	| 0.010	| 3.82460	| Averaged
| 8 C-16	| 2983102	| 2866747	| 0.010	| 3.90046	| Averaged
| 10 C-18	| 3021289	| 2887292	| 0.010	| 4.43511	| Averaged
| M 11 Alip C9-C18	| 2857090	| 2744864	| 0.010	| 3.92799	| Averaged
| 12 C-19	| 3017239	| 2898780	| 0.010	| 3.92607	| Averaged
| 13 C-20	| 3045314	| 2941955	| 0.010	| 3.39402	| Averaged
| S 15 Chlorooctadecane	| 2739581	| 2663692	| 0.010	| 2.77009	| Averaged
| 16 C-22	| 3060647	| 2966763	| 0.010	| 3.06746	| Averaged
| 18 C-24	| 3098402	| 3022447	| 0.010	| 2.45141	| Averaged
| 20 C-26	| 3120089	| 3056143	| 0.010	| 2.04949	| Averaged
| 22 C-28	| 3095987	| 3033627	| 0.010	| 2.01425	| Averaged
| 115 C-30	| 3120341	| 3058955	| 0.010	| 1.96727	| Averaged
| 114 C-36	| 2925634	| 2883428	| 0.010	| 1.44262	| Averaged
| M 24 Alip C19-C36	| 3060457	| 2982762	| 0.010	| 2.53865	| Averaged

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 3.12250
 Maximun Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b079.d
 Lab Smp Id: 1400 Client Smp ID: 1 84-16-1
 Inj Date : 04-NOV-2011 21:26
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1400*1 84-16-1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 14:08 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 79 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmaseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 C-9	6.229	6.232	-0.003	129093531	50.0000	47.5
2 C-10	6.932	6.929	0.003	133591133	50.0000	48.8
4 C-12	7.828	7.833	-0.005	134669711	50.0000	48.1
6 C-14	8.466	8.471	-0.005	138402964	50.0000	48.1
8 C-16	9.008	9.014	-0.006	143337352	50.0000	48.0
10 C-18	9.497	9.504	-0.007	144364588	50.0000	47.8
M 11 Alip C9-C18				823459279	300.000	288
12 C-19	9.727	9.774	-0.047	144939003	50.0000	48.0
13 C-20	9.950	9.957	-0.007	147097767	50.0000	48.3
\$ 15 Chlorooctadecane	10.164	10.216	-0.052	133184608	50.0000	48.6
16 C-22	10.376	10.384	-0.008	148338149	50.0000	48.5
18 C-24	10.787	10.796	-0.009	151122368	50.0000	48.8
20 C-26	11.212	11.223	-0.011	152807139	50.0000	49.0

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
=====	==	=====	=====	=====	=====	=====
22 C-28	11.680	11.724	-0.044	151681326	50.0000	49.0
115 C-30	12.236	12.249	-0.013	152947749	50.0000	49.0(A)
114 C-36	15.127	15.144	-0.017	144171415	50.0000	49.3(A)
M 24 Alip C19-C36				1193104916	400.000	390

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Date : 04-NOV-2011 21:26

Client ID: 1 84-16-1

Sample Info: 1400*1 84-16-1

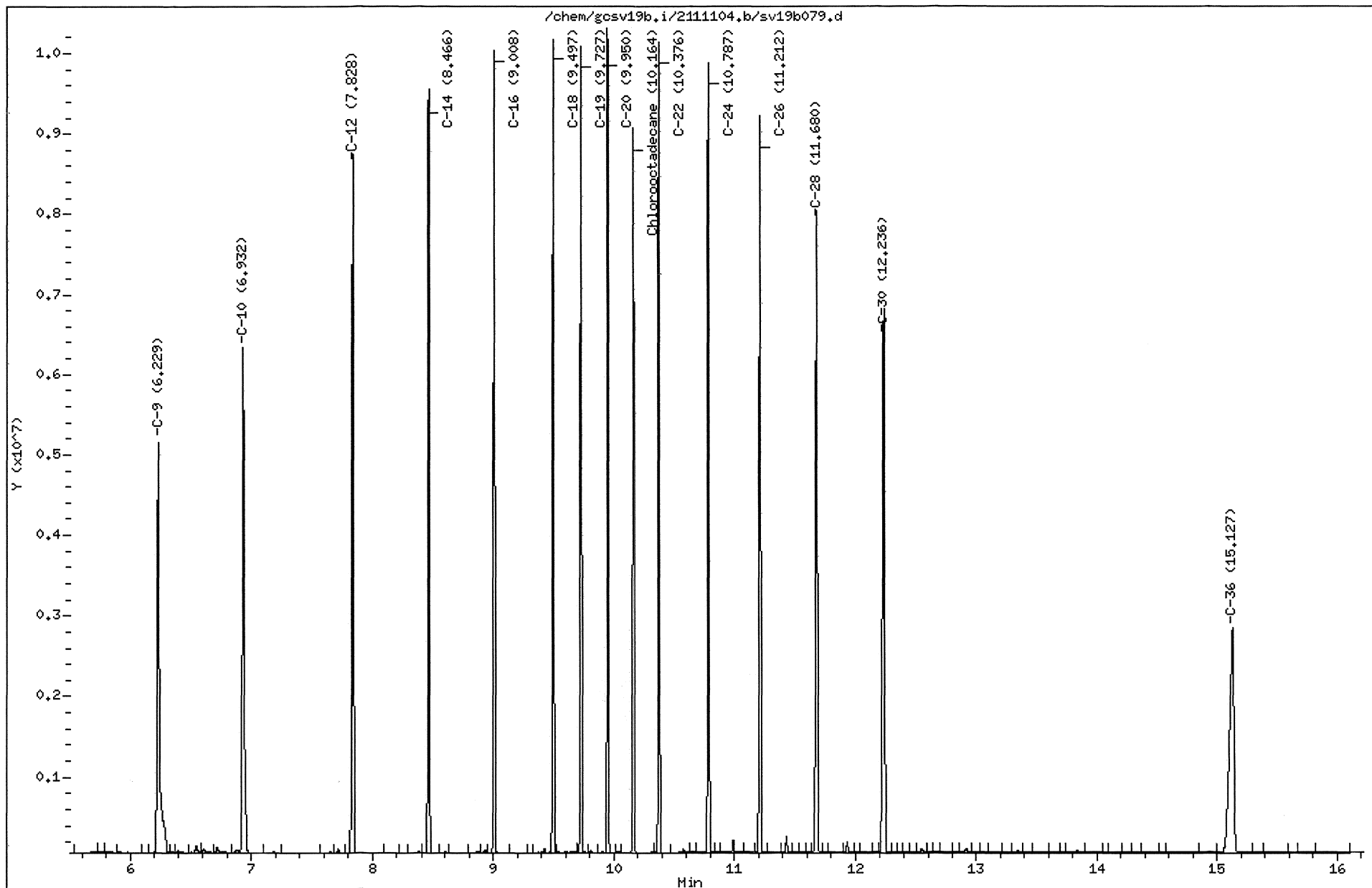
Volume Injected (uL): 1.0

Column phase: IB-5MS-30M

Instrument: gcsv19b.i

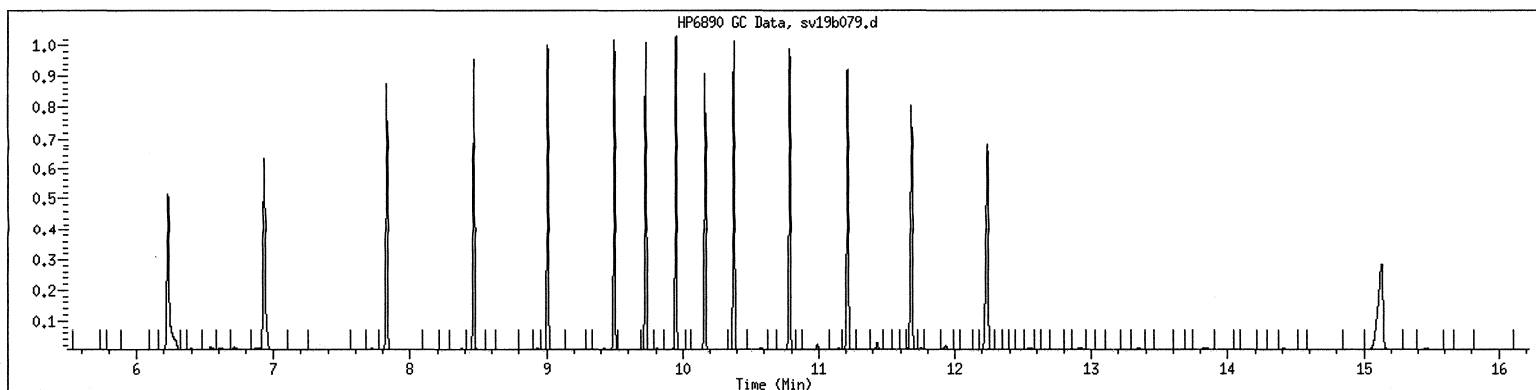
Operator: smh

Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1400 SampleType : CCALIB_3
Injection Date: 11/04/2011 21:26 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1400*1 84-16-1
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-NOV-2011 15:55
 End Cal Date : 02-NOV-2011 17:30
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /var/chem/gcsv19b.i/2111102.b/AROEPhmass.m
 Cal Date : 08-Nov-2011 08:36 dlb
 Curve Type : Average

Calibration File Names:

Level 1: /var/chem/gcsv19b.i/2111102.b/sv19b052.d
 Level 2: /var/chem/gcsv19b.i/2111102.b/sv19b053.d
 Level 3: /var/chem/gcsv19b.i/2111102.b/sv19b054.d
 Level 4: /var/chem/gcsv19b.i/2111102.b/sv19b055.d
 Level 5: /var/chem/gcsv19b.i/2111102.b/sv19b056.d

Compound	1.000 Level 1	10.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRF	% RSD
1 Naphthalene	2871371	2880452	2795766	2859339	2803867	2842159	1.389
2 2-Methylnaphthalene	2390073	2394998	2345540	2406153	2358179	2378988	1.086
4 Acenaphthylene	2742978	2787580	2735871	2801782	2748122	2763267	1.065
6 Acenaphthene	2939138	2974500	2797376	2847632	2992117	2910153	2.892
7 Fluorene	2698627	2763527	2759247	2833327	2801195	2771184	1.825
8 Phenanthrene	2595622	2723658	2778901	2849934	2855307	2760684	3.879
9 Anthracene	2513243	2630537	2655916	2746767	2723523	2653997	3.464
12 Fluoranthene	2615148	2778457	2865217	2923634	2923247	2821141	4.592
13 Pyrene	2622128	2808614	2905331	2966543	2974785	2855480	5.126
14 Benzo(a)Anthracene	2463921	2659230	2834632	2942403	2985058	2777049	7.762
15 Chrysene	2577178	2691296	2772251	2844436	2855699	2748172	4.223
16 Benzo(b)Fluoranthene	2542088	2741276	2869331	2969808	2944332	2813367	6.247
17 Benzo(k)Fluoranthene	2542088	2741276	2869331	2969808	2944332	2813367	6.247
18 Benzo(a)Pyrene	2459311	2662945	2905156	2960554	2875461	2772685	7.515
19 Indo(1,2,3cd)Pyrene	2354342	2617747	2836757	2866551	2719863	2679052	7.715
20 Dibenzo(a,h)Anthracene	2354342	2617747	2836757	2866551	2719863	2679052	7.715
21 Benzo(g,h,i)Perylene	2487409	2704307	2942094	3003707	2752450	2777993	7.386
M 22 Arom C11-C22	2574648	2716361	2794440	2862290	2822200	2753988	4.124
M 23 Unadjusted Arom C11-C22	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 113 Total Surrogate Area	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 3 2-Fluorobiphenyl	2473008	2477779	2421128	2479969	2435554	2457488	1.107

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-NOV-2011 15:55
 End Cal Date : 02-NOV-2011 17:30
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /var/chem/gcsv19b.i/2111102.b/AROEPHmass.m
 Cal Date : 08-Nov-2011 08:36 dlb
 Curve Type : Average

Compound	1.000 Level 1	10.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRF	% RSD
\$ 5 2-Bromonaphthalene	1570168	1562462	1600777	1661330	1449154	1568778	4.932
\$ 10 O-Terphenyl	2900971	2972915	2936779	2979088	2954226	2948796	1.067
\$ 11 Chloro-octadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111102.b/sv19b052.d
 Lab Smp Id: 1201 Client Smp ID: 1 84-12-8
 Inj Date : 02-NOV-2011 15:55
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1201*1 84-12-8
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111102.b/AROEPhmass.m
 Meth Date : 08-Nov-2011 08:35 dlb Quant Type: ESTD
 Cal Date : 02-NOV-2011 15:55 Cal File: sv19b052.d
 Als bottle: 52 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 Naphthalene	7.877	7.878	-0.001	2871371	1.00000	1.00 (M2)
2 2-Methylnaphthalene	8.263	8.261	0.002	2390073	1.00000	1.00 (M2)
\$ 3 2-Fluorobiphenyl	8.450	8.450	0.000	2473008	1.00000	1.00 (M2)
4 Acenaphthylene	8.761	8.760	0.001	2742978	1.00000	1.00 (M2)
\$ 5 2-Bromonaphthalene	8.833	8.832	0.001	1570168	1.00000	1.00 (M2)
6 Acenaphthene	8.851	8.850	0.001	2939138	1.00000	1.00 (M2)
7 Fluorene	9.126	9.128	-0.002	2698627	1.00000	1.00 (M2)
8 Phenanthrene	9.653	9.652	0.001	2595622	1.00000	1.00 (M2)
9 Anthracene	9.681	9.680	0.001	2513243	1.00000	1.00 (M2)
\$ 10 O-Terphenyl	9.818	9.819	-0.001	2900971	1.00000	1.00 (M2)
12 Fluoranthene	10.323	10.322	0.001	2615148	1.00000	1.00 (M2)
13 Pyrene	10.463	10.461	0.002	2622128	1.00000	1.00 (M2)
14 Benzo(a)Anthracene	11.206	11.208	-0.002	2463921	1.00000	1.00 (M2)

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
15 Chrysene	11.234	11.232	0.002	2577178	1.00000	1.00 (M2)
16 Benzo(b)Fluoranthene	12.064	12.062	0.002	5084176	2.00000	2.00 (M2)
17 Benzo(k)Fluoranthene	12.064	12.062	0.002	5084176	2.00000	2.00 (M2)
18 Benzo(a)Pyrene	12.351	12.350	0.001	2459311	1.00000	1.00 (M2)
19 Indo(1,2,3cd)Pyrene	13.571	13.570	0.001	4708685	2.00000	2.00 (M2)
20 Dibenzo(a,h)Anthracene	13.571	13.570	0.001	4708685	2.00000	2.00 (M2)
21 Benzo(g,h,i)Perylene	13.938	13.939	-0.001	2487409	1.00000	1.00 (M2)
M 22 Arom C11-C22				43769008	17.0000	17.0
M 113 Total Surrogate Area				6944147	0.00000	(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- M2- Compound response manually integrated because
Target system integrated incorrectly.

Date : 02-NOV-2011 15:55

Client ID: 1 84-12-8

Sample Info: 1201x1 84-12-8

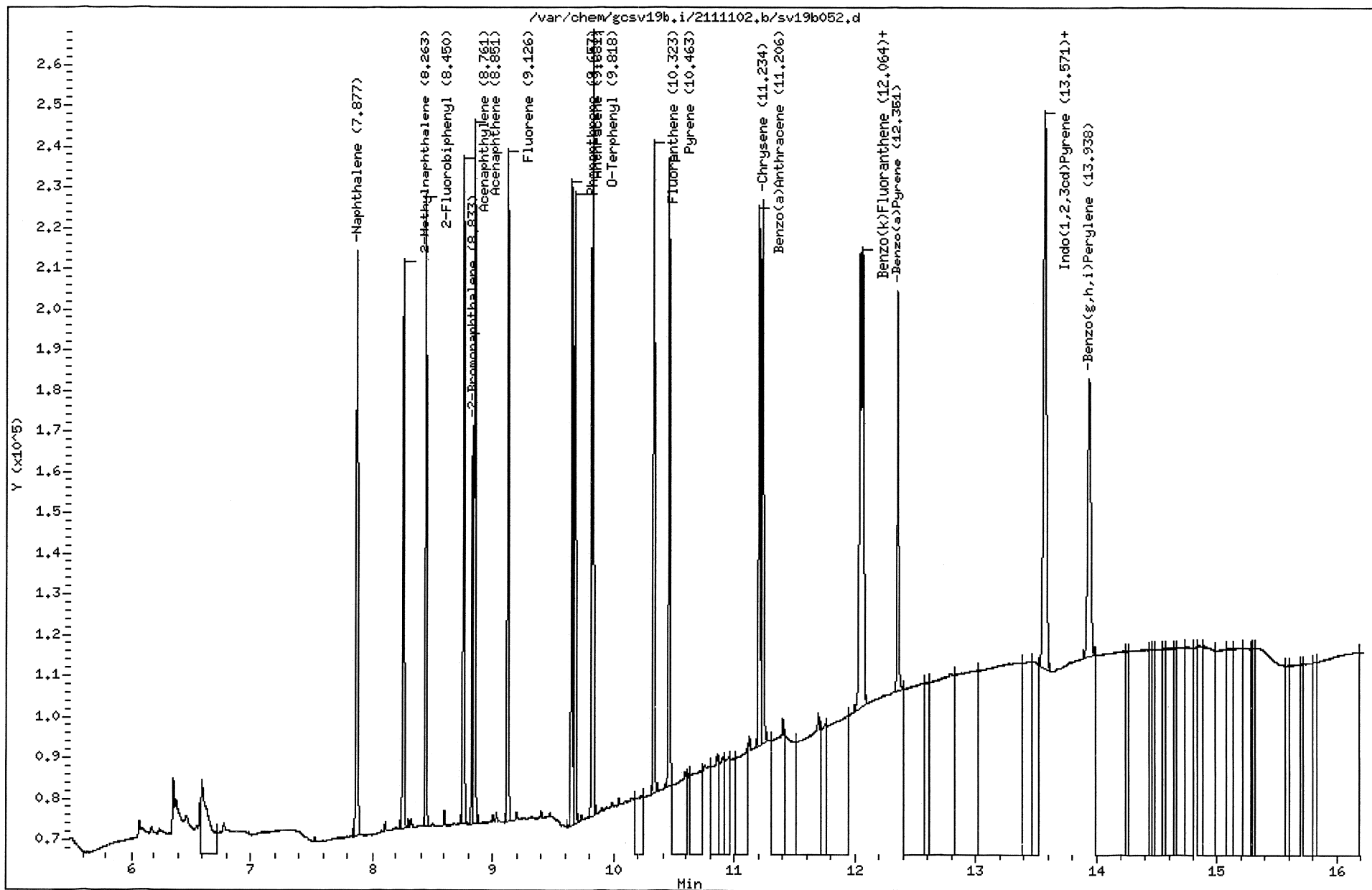
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gcsv19b.i

Operator: smh

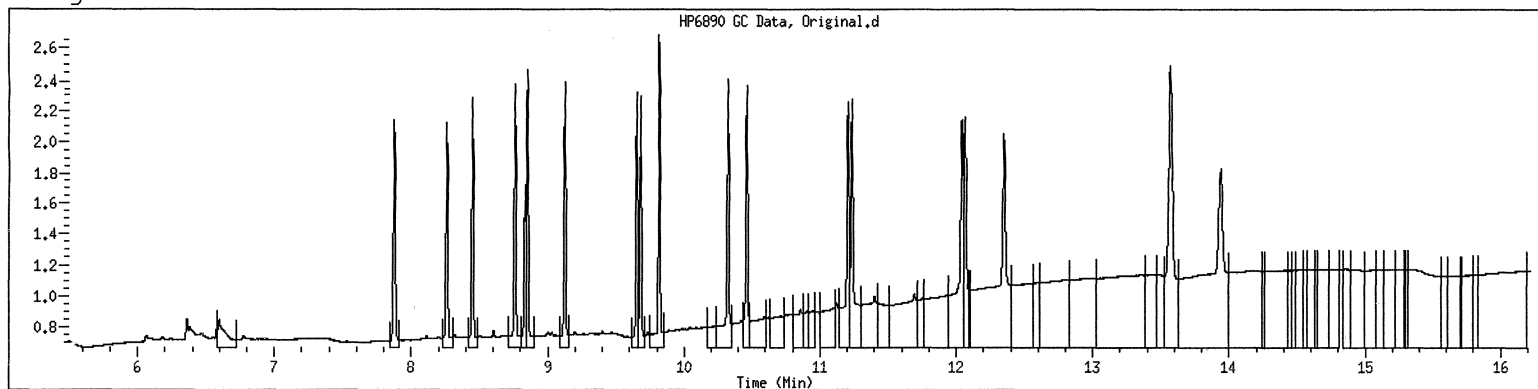
Column diameter: 0.25



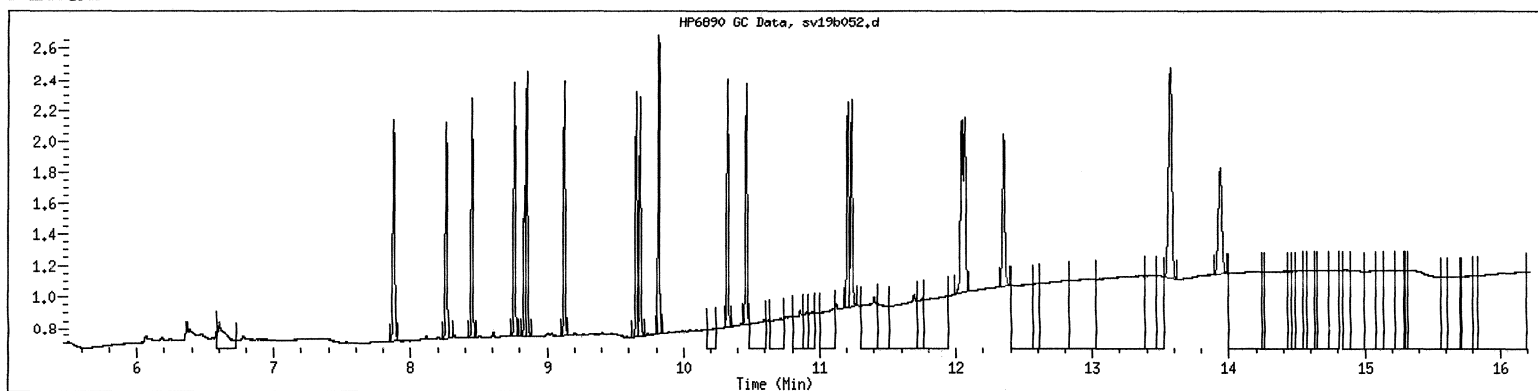
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1201	SampleType	: CALIB_1
Injection Date:	11/02/2011 15:55	Instrument	: gcsv19b.i
Operator	: smh		
Sample Info	: 1201*1 84-12-8		
Misc Info	:		
Method	: /var/chem/gcsv19b.i/2111102.b/AROEPHmass.m		
Dilution	: 1.00		
Matrix	: WATER		
Integrator	: HP Genie	Compound Sublist:	all

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111102.b/sv19b053.d
 Lab Smp Id: 1202 Client Smp ID: 1 84-12-8
 Inj Date : 02-NOV-2011 16:19
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1202*1 84-12-8
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111102.b/AROEPhmass.m
 Meth Date : 08-Nov-2011 08:35 dlb Quant Type: ESTD
 Cal Date : 02-NOV-2011 16:19 Cal File: sv19b053.d
 Als bottle: 53 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS						
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (UG/ML)	ON-COL (UG/ML)	
1 Naphthalene	7.876	7.878	-0.002	28804515	10.0000	10.0 (M2)	
2 2-Methylnaphthalene	8.262	8.261	0.001	23949975	10.0000	10.0 (M2)	
\$ 3 2-Fluorobiphenyl	8.450	8.450	0.000	24777794	10.0000	10.0 (M2)	
4 Acenaphthylene	8.761	8.761	0.000	27875803	10.0000	10.1 (M2)	
\$ 5 2-Bromonaphthalene	8.835	8.832	0.003	15624622	10.0000	9.98 (M2)	
6 Acenaphthene	8.852	8.851	0.001	29745005	10.0000	10.1 (M2)	
7 Fluorene	9.126	9.128	-0.002	27635268	10.0000	10.1 (M2)	
8 Phenanthrene	9.654	9.652	0.002	27236585	10.0000	10.2 (M2)	
9 Anthracene	9.682	9.681	0.001	26305372	10.0000	10.2 (M2)	
\$ 10 O-Terphenyl	9.818	9.819	-0.001	29729146	10.0000	10.1 (M2)	
12 Fluoranthene	10.324	10.322	0.002	27784568	10.0000	10.3 (M2)	
13 Pyrene	10.463	10.461	0.002	28086137	10.0000	10.3 (M2)	
14 Benzo(a)Anthracene	11.206	11.208	-0.002	26592300	10.0000	10.4 (M2)	

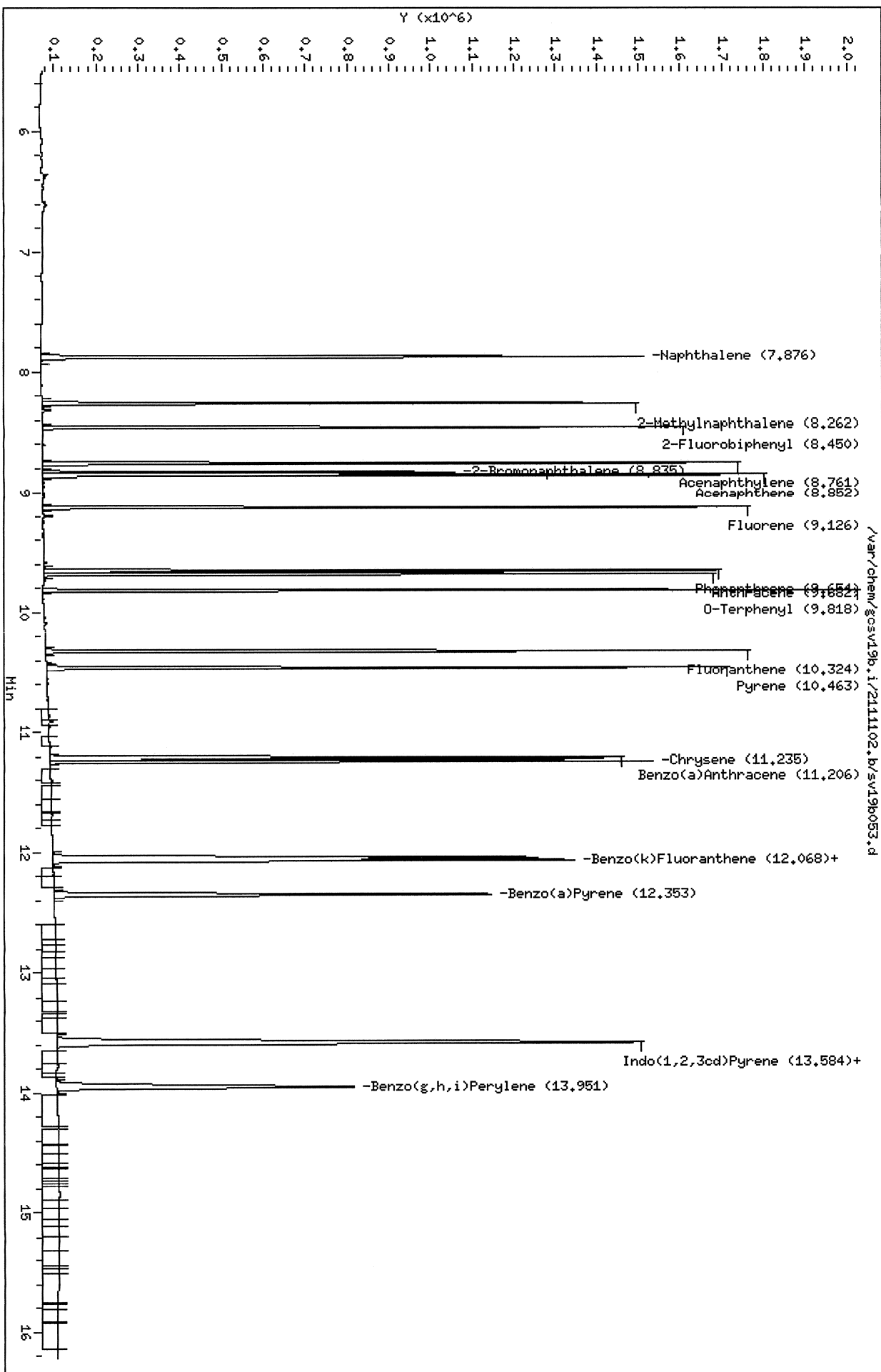
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
15 Chrysene	11.235	11.235	0.000	26912958	10.0000	10.2 (M2)
16 Benzo(b)Fluoranthene	12.068	12.066	0.002	54825513	20.0000	20.8 (M2)
17 Benzo(k)Fluoranthene	12.068	12.066	0.002	54825513	20.0000	20.8 (M2)
18 Benzo(a)Pyrene	12.353	12.351	0.002	26629448	10.0000	10.4 (M2)
19 Indo(1,2,3cd)Pyrene	13.584	13.576	0.008	52354931	20.0000	21.1 (M2)
20 Dibenzo(a,h)Anthracene	13.584	13.576	0.008	52354931	20.0000	21.1 (M2)
21 Benzo(g,h,i)Perylene	13.951	13.945	0.006	27043066	10.0000	10.4 (M2)
M 22 Arom C11-C22				461781444	170.000	175
M 113 Total Surrogate Area				70131562	0.00000	(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- M2- Compound response manually integrated because
Target system integrated incorrectly.

Data File: /var/chem/gcosv19b.i/2111102.b/sv19b053.d
Date: 02-NOV-2011 16:19
Client ID: 1 84-12-8
Sample Info: 1202x1 84-12-8
Volume Injected (uL): 1.0
Column phase: DB-SHS-30M

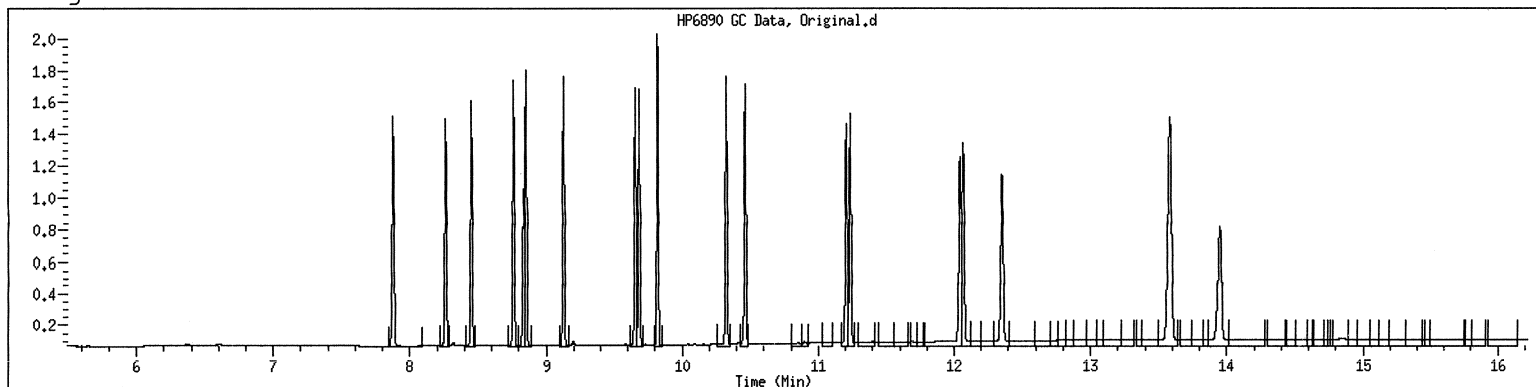
Instrument: gcosv19b.i
Operator: smh
Column diameter: 0.25



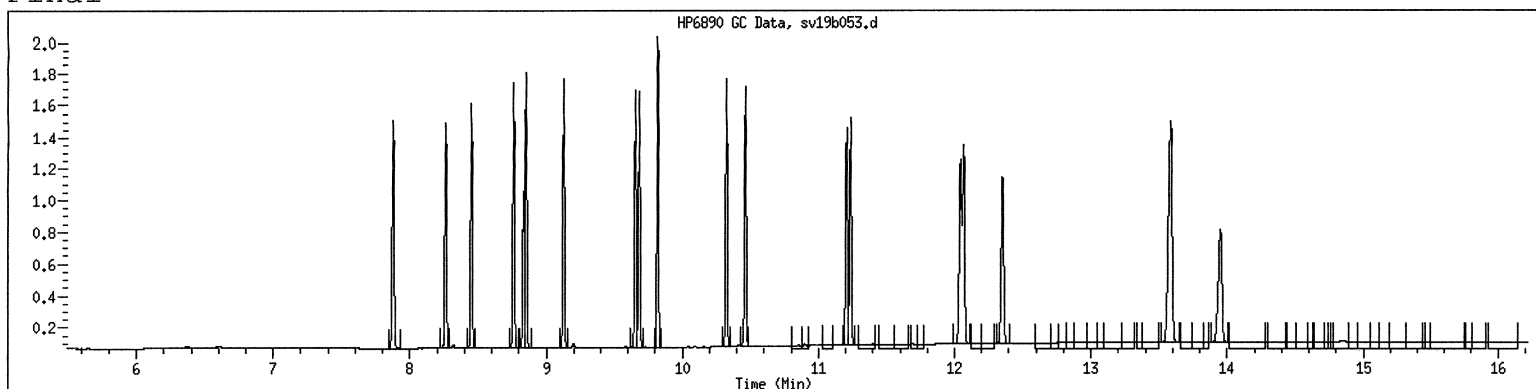
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1202 SampleType : CALIB_2
Injection Date: 11/02/2011 16:19 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1202*1 84-12-8
Misc Info :
Method : /var/chem/gcsv19b.i/2111102.b/AROEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111102.b/sv19b054.d
 Lab Smp Id: 1203 Client Smp ID: 1 84-12-8
 Inj Date : 02-NOV-2011 16:42
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1203*1 84-12-8
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111102.b/AROEPMass.m
 Meth Date : 08-Nov-2011 08:35 dlb Quant Type: ESTD
 Cal Date : 02-NOV-2011 16:42 Cal File: sv19b054.d
 Als bottle: 54 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS						
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (UG/ML)	ON-COL (UG/ML)	
1 Naphthalene	7.879	7.879	0.000	139788310	50.0000	49.1	
2 2-Methylnaphthalene	8.265	8.263	0.002	117276990	50.0000	49.3	
\$ 3 2-Fluorobiphenyl	8.453	8.451	0.002	121056403	50.0000	49.3	
4 Acenaphthylene	8.765	8.762	0.003	136793555	50.0000	49.6	
\$ 5 2-Bromonaphthalene	8.838	8.834	0.004	80038867	50.0000	50.7	
6 Acenaphthene	8.857	8.853	0.004	139868814	50.0000	48.2	
7 Fluorene	9.130	9.129	0.001	137962328	50.0000	50.3	
8 Phenanthrene	9.657	9.654	0.003	138945044	50.0000	51.5	
9 Anthracene	9.687	9.683	0.004	132795791	50.0000	51.1	
\$ 10 O-Terphenyl	9.820	9.819	0.001	146838940	50.0000	50.0	
12 Fluoranthene	10.325	10.323	0.002	143260836	50.0000	52.0	
13 Pyrene	10.465	10.463	0.002	145266555	50.0000	52.3	
14 Benzo(a)Anthracene	11.207	11.208	-0.001	141731614	50.0000	53.4	

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
15 Chrysene	11.239	11.236	0.003	138612563	50.0000	51.7
16 Benzo (b) Fluoranthene	12.080	12.070	0.010	286933061	100.000	106 (M2)
17 Benzo (k) Fluoranthene	12.080	12.070	0.010	286933061	100.000	106 (M2)
18 Benzo (a) Pyrene	12.363	12.355	0.008	145257809	50.0000	54.3
19 Indo (1, 2, 3cd) Pyrene	13.615	13.589	0.026	283675684	100.000	109
20 Dibenzo (a, h) Anthracene	13.615	13.589	0.026	283675684	100.000	109 (M1)
21 Benzo (g, h, i) Perylene	13.988	13.959	0.029	147104717	50.0000	54.3
M 22 Arom C11-C22				2375273671	850.000	882
M 113 Total Surrogate Area				347934210	0.00000	(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation (BLOQ).
- M1- Compound response manually integrated because Target system did not integrate.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Date : 02-NOV-2011 16:42

Client ID: 1 84-12-8

Sample Info: 1203*1 84-12-8

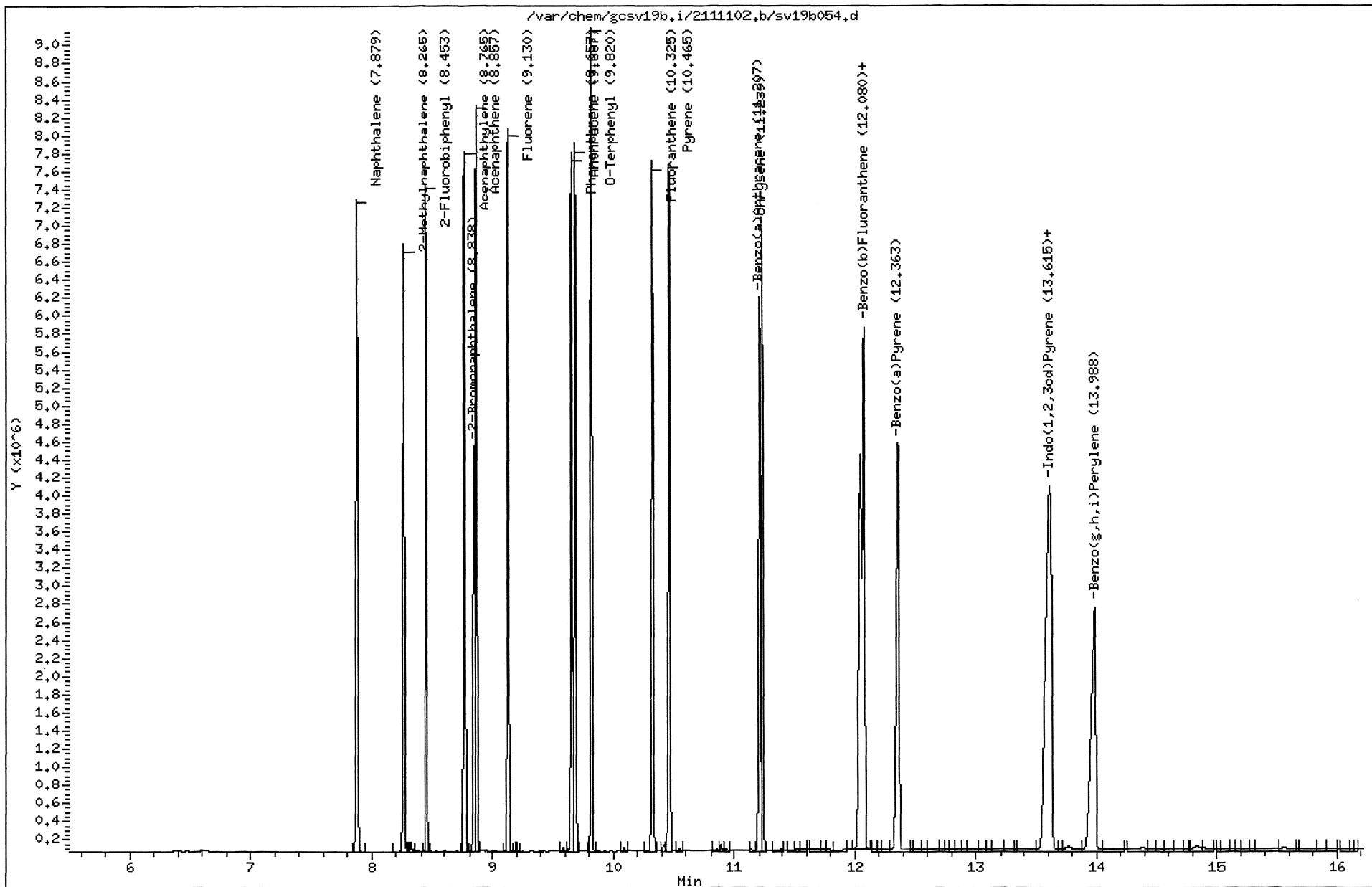
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gcsv19b.i

Operator: smh

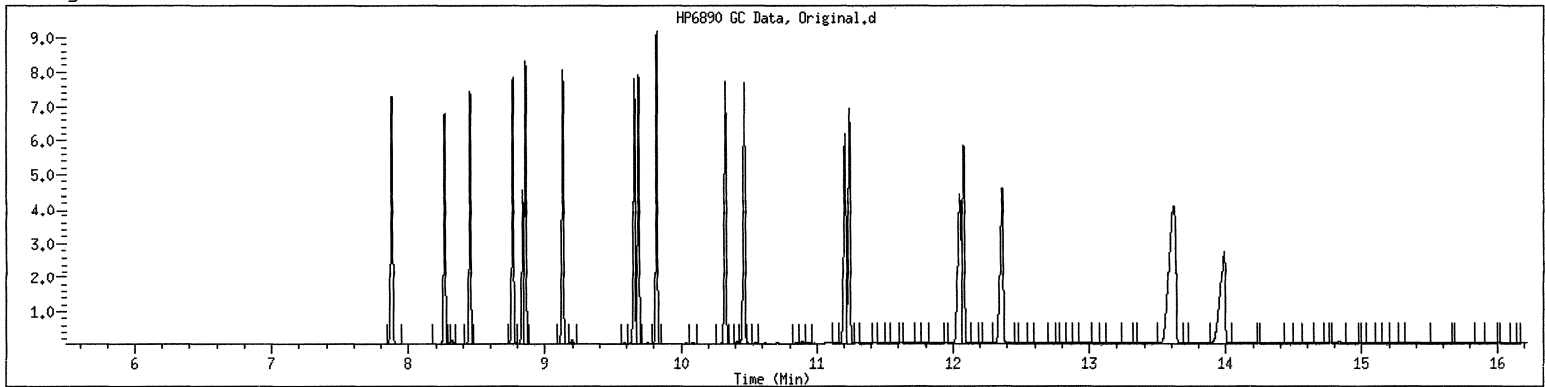
Column diameter: 0.25



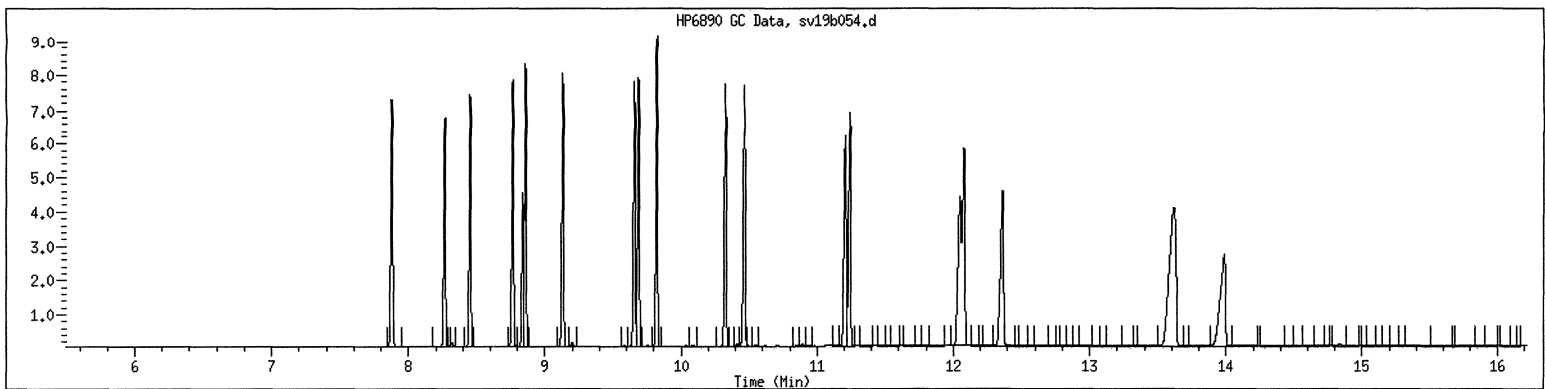
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1203 SampleType : CALIB_3
Injection Date: 11/02/2011 16:42 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1203*1 84-12-8
Misc Info :
Method : /var/chem/gcsv19b.i/2111102.b/AROEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111102.b/sv19b055.d
 Lab Smp Id: 1204 Client Smp ID: 1 84-12-8
 Inj Date : 02-NOV-2011 17:07
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1204*1 84-12-8
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111102.b/AROEPHmass.m
 Meth Date : 08-Nov-2011 08:35 dlb Quant Type: ESTD
 Cal Date : 02-NOV-2011 17:07 Cal File: sv19b055.d
 Als bottle: 55 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS						
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (UG/ML)	ON-COL (UG/ML)	
1 Naphthalene	7.882	7.879	0.003	285933881	100.000	100	
2 2-Methylnaphthalene	8.269	8.264	0.005	240615323	100.000	101	
\$ 3 2-Fluorobiphenyl	8.457	8.453	0.004	247996907	100.000	101	
4 Acenaphthylene	8.769	8.764	0.005	280178162	100.000	101	
\$ 5 2-Bromonaphthalene	8.843	8.836	0.007	166132975	100.000	104	
6 Acenaphthene	8.864	8.855	0.009	284763163	100.000	98.5	
7 Fluorene	9.136	9.131	0.005	283332686	100.000	103	
8 Phenanthrene	9.663	9.656	0.007	284993363	100.000	104	
9 Anthracene	9.695	9.685	0.010	274676746	100.000	104	
\$ 10 O-Terphenyl	9.826	9.821	0.005	297908777	100.000	101	
12 Fluoranthene	10.334	10.325	0.009	292363394	100.000	105	
13 Pyrene	10.475	10.465	0.010	296654255	100.000	105	
14 Benzo(a)Anthracene	11.219	11.211	0.008	294240261	100.000	108	

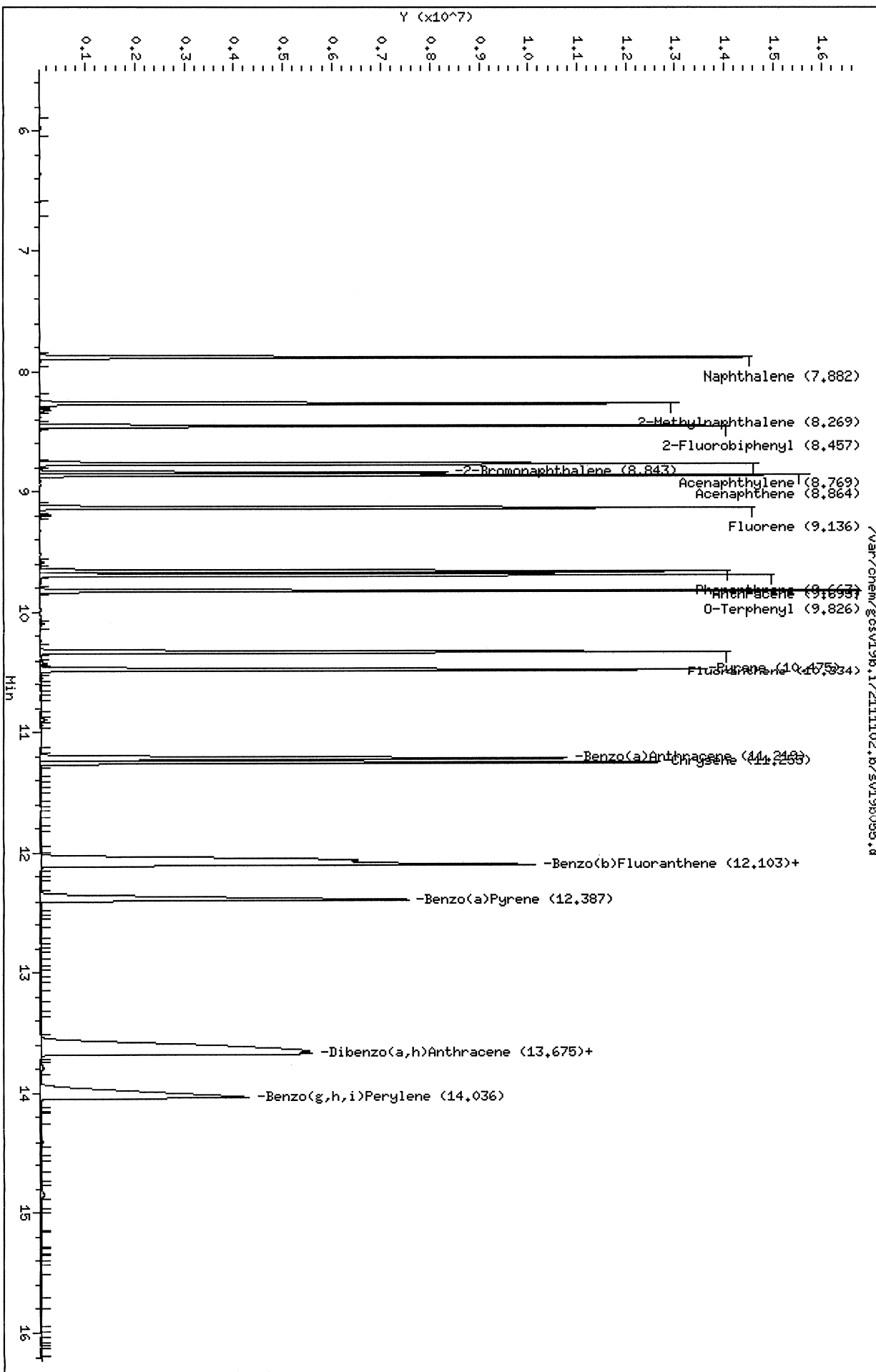
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
15 Chrysene	11.255	11.240	0.015	284443626	100.000	105
16 Benzo(b)Fluoranthene	12.103	12.078	0.025	593961569	200.000	214 (AM2)
17 Benzo(k)Fluoranthene	12.103	12.078	0.025	593961569	200.000	214 (AM2)
18 Benzo(a)Pyrene	12.387	12.363	0.024	296055391	100.000	108
19 Indo(1,2,3cd)Pyrene	13.675	13.610	0.065	573310212	200.000	215 (AM2)
20 Dibenzo(a,h)Anthracene	13.675	13.610	0.065	573310212	200.000	215 (AM2)
21 Benzo(g,h,i)Perylene	14.036	13.979	0.057	300370678	100.000	108
M 22 Arom C11-C22				4865892710	1700.00	1780
M 113 Total Surrogate Area				712038659	0.00000	(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Data File: /var/chem/gcsw19b.i/2111102.b/sv19b055.d
 Date: 02-NOV-2011 17:07
 Client ID: 1 84-12-8
 Sample Info: 1204x1 84-12-8
 Volume Injected (uL): 1.0
 Column phase: DB-5MS-30M

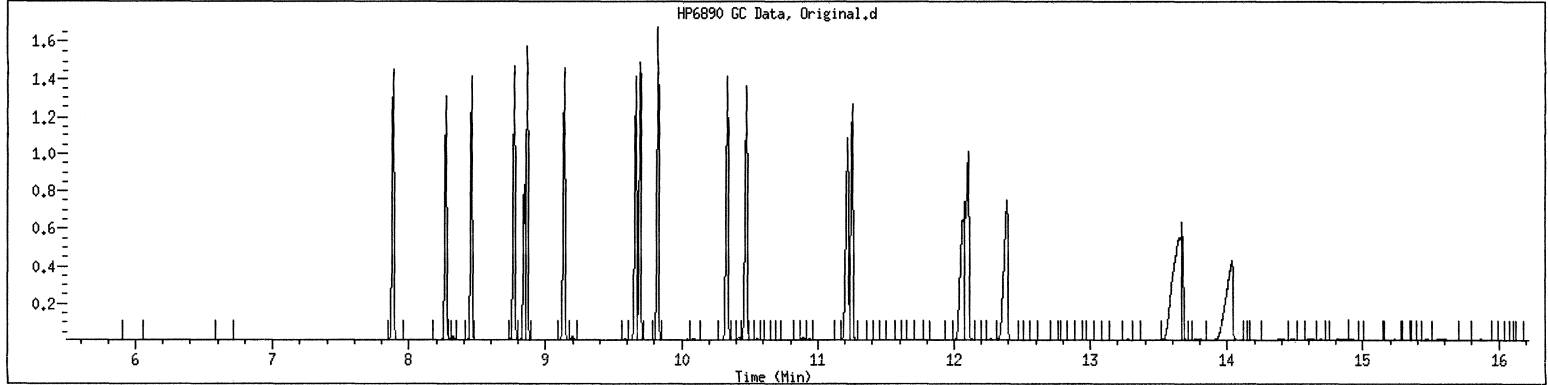
Instrument: gcsw19b.i
 Operator: smh
 Column diameter: 0.25



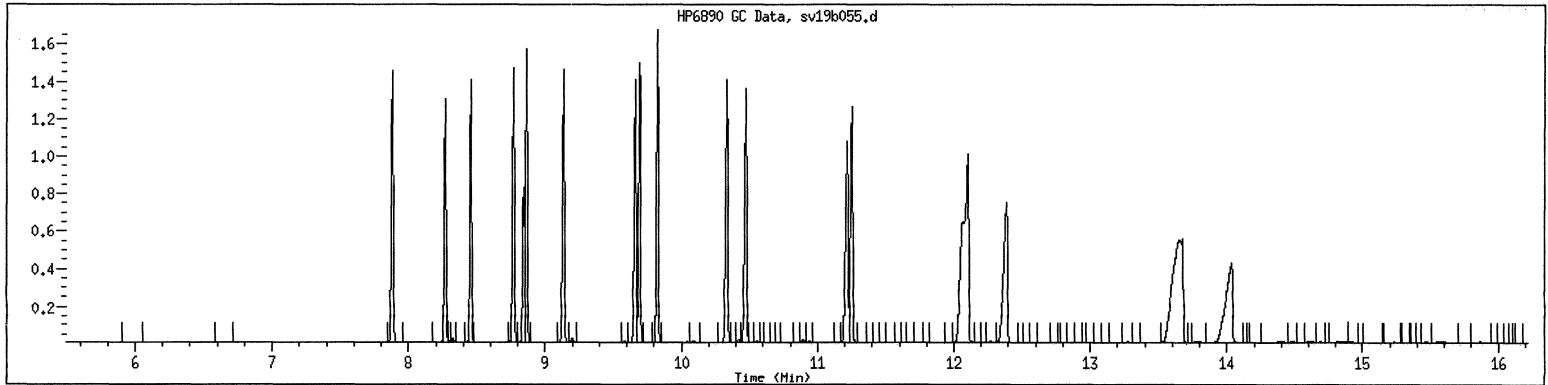
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1204 SampleType : CALIB_4
Injection Date: 11/02/2011 17:07 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1204*1 84-12-8
Misc Info :
Method : /var/chem/gcsv19b.i/2111102.b/AROEPhmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111102.b/sv19b056.d
 Lab Smp Id: 1205 Client Smp ID: 1 84-12-8
 Inj Date : 02-NOV-2011 17:30
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1205*1 84-12-8
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111102.b/AROEPhmass.m
 Meth Date : 08-Nov-2011 08:35 dlb Quant Type: ESTD
 Cal Date : 02-NOV-2011 17:30 Cal File: sv19b056.d
 Als bottle: 56 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS						
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (UG/ML)	ON-COL (UG/ML)	
1 Naphthalene	7.888	7.881	0.007	560773309	200.000	197	
2 2-Methylnaphthalene	8.274	8.266	0.008	471635711	200.000	198	
\$ 3 2-Fluorobiphenyl	8.462	8.454	0.008	487110868	200.000	198	
4 Acenaphthylene	8.776	8.767	0.009	549624381	200.000	199	
\$ 5 2-Bromonaphthalene	8.853	8.839	0.014	289830833	200.000	185	
6 Acenaphthene	8.872	8.858	0.014	598423437	200.000	206 (A)	
7 Fluorene	9.143	9.133	0.010	560238934	200.000	202 (A)	
8 Phenanthrene	9.671	9.658	0.013	571061474	200.000	207 (A)	
9 Anthracene	9.705	9.689	0.016	544704598	200.000	205 (A)	
\$ 10 O-Terphenyl	9.832	9.823	0.009	590845256	200.000	200 (A)	
12 Fluoranthene	10.343	10.329	0.014	584649476	200.000	207 (A)	
13 Pyrene	10.485	10.468	0.017	594957073	200.000	208 (A)	
14 Benzo(a)Anthracene	11.230	11.215	0.015	597011528	200.000	215 (A)	

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
15 Chrysene	11.270	11.246	0.024	571139866	200.000	208 (A)
16 Benzo(b)Fluoranthene	12.128	12.088	0.040	1177732644	400.000	419 (AM1)
17 Benzo(k)Fluoranthene	12.128	12.088	0.040	1177732644	400.000	419 (A)
18 Benzo(a)Pyrene	12.413	12.373	0.040	575092148	200.000	207 (A)
19 Indo(1,2,3cd)Pyrene	13.724	13.632	0.092	1087945178	400.000	406 (AM2)
20 Dibenzo(a,h)Anthracene	13.724	13.632	0.092	1087945178	400.000	406 (AM2)
21 Benzo(g,h,i)Perylene	14.088	14.001	0.087	550489918	200.000	198
M 22 Arom C11-C22				9595479675	3400.00	3480
M 113 Total Surrogate Area				1367786957	0.00000	(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M1- Compound response manually integrated because Target system did not integrate.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Date : 02-NOV-2011 17:30

Client ID: 1 84-12-8

Sample Info: 1205x1 84-12-8

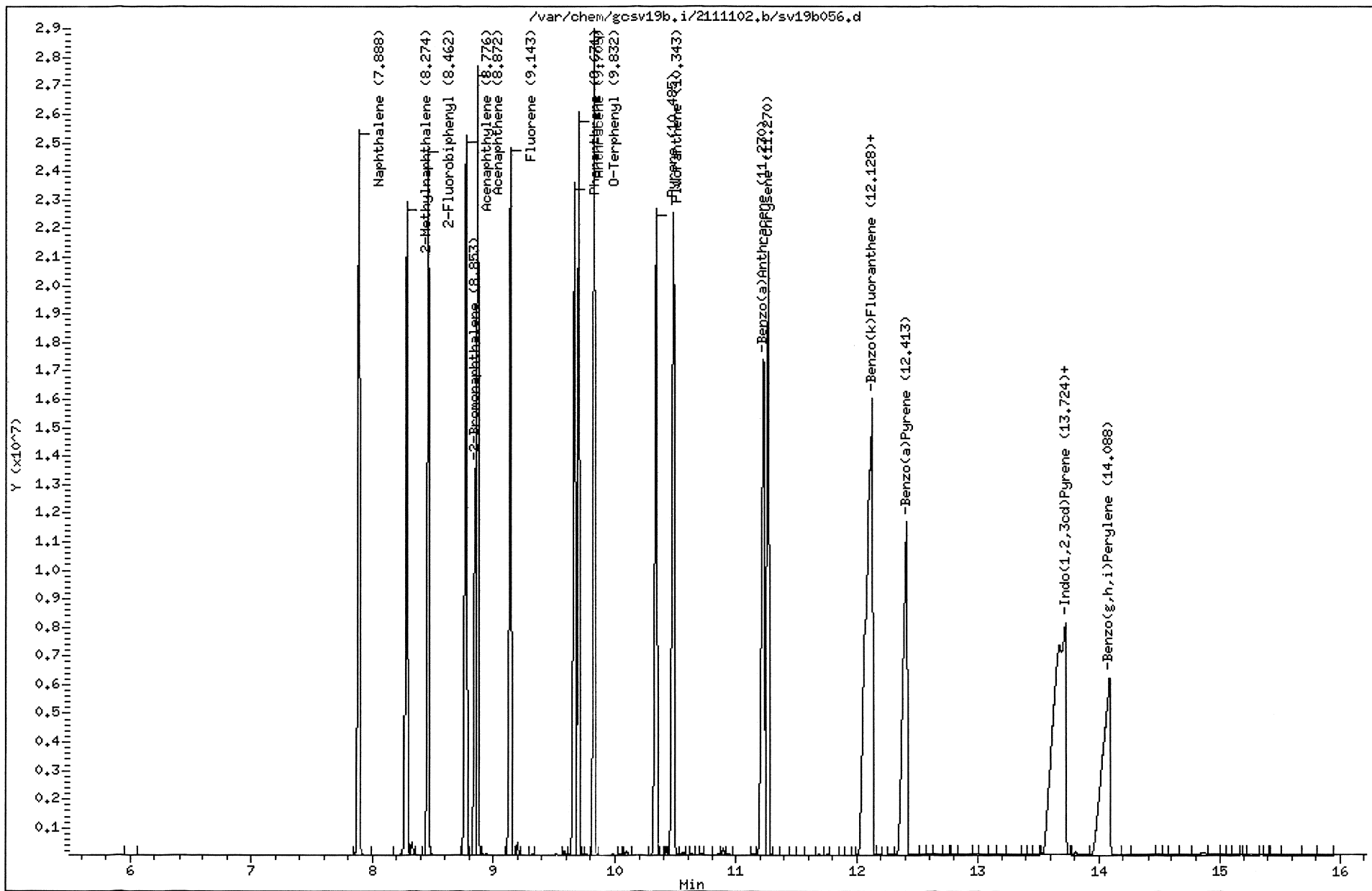
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gcsv19b,i

Operator: smh

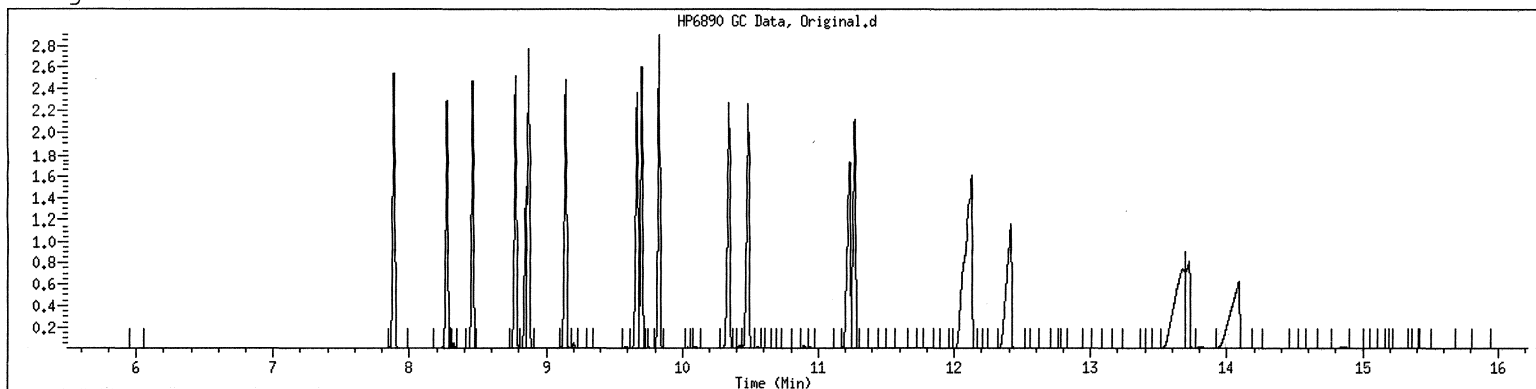
Column diameter: 0.25



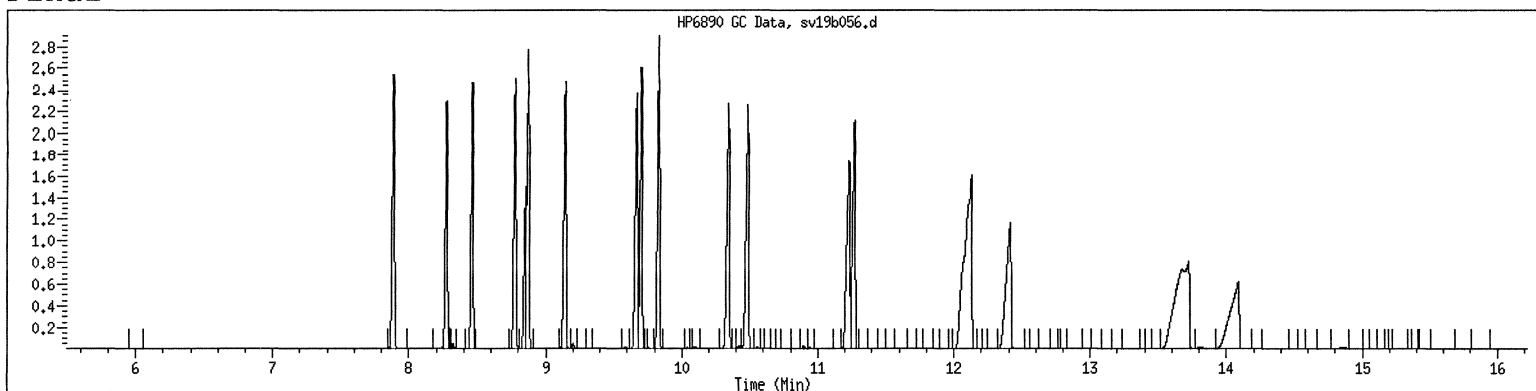
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1205 SampleType : CALIB_5
Injection Date: 11/02/2011 17:30 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1205*1 84-12-8
Misc Info :
Method : /var/chem/gcsv19b.i/2111102.b/AROEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

RECOVERY REPORT

Client Name: Client SDG: 2111102
 Sample Matrix: LIQUID Fraction: SV
 Lab Smp Id: 1600 Client Smp ID: 1 84-7-10
 Level: LOW Operator: smh
 Data Type: GC MULTI COMP SampleType: LCS
 SpikeList File: AROMICV.spk Quant Type: ESTD
 Sublist File: all.sub
 Method File: /var/chem/gcsv19b.i/2111102.b/AROEPHmass.m
 Misc Info:

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Naphthalene	50.0	49.0	98.05	75-125
2 2-Methylnaphthalene	50.0	55.6	111.25	75-125
4 Acenaphthylene	50.0	49.5	98.98	75-125
6 Acenaphthene	50.0	47.9	95.74	75-125
7 Fluorene	50.0	50.0	100.07	75-125
8 Phenanthrene	50.0	50.4	100.72	75-125
9 Anthracene	50.0	50.5	100.97	75-125
12 Fluoranthene	50.0	49.6	99.22	75-125
13 Pyrene	50.0	51.1	102.27	75-125
14 Benzo (a) Anthracene	50.0	50.4	100.89	75-125
15 Chrysene	50.0	49.9	99.75	75-125
16 Benzo (b) Fluoranthene	100	101	101.11	75-125
17 Benzo (k) Fluoranthene	100	101	101.11	75-125
18 Benzo (a) Pyrene	50.0	50.9	101.88	75-125
19 Indo (1, 2, 3cd) Pyrene	100	104	104.37	75-125
20 Dibenzo (a, h) Anthracene	100	104	104.37	75-125
21 Benzo (g, h, i) Perylene	50.0	52.5	105.06	75-125

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 3 2-Fluorobiphenyl	50.0	51.5	102.93	40-140
\$ 5 2-Bromonaphthalene	50.0	54.4	108.75	40-140
\$ 10 O-Terphenyl	50.0	55.1	110.13	40-140
\$ 11 Chloro-octadecane	50.0	0.00	*	40-140

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111102.b/sv19b057.d
 Lab Smp Id: 1600 Client Smp ID: 1 84-7-10
 Inj Date : 02-NOV-2011 17:55
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1600*1 84-7-10
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111102.b/AROEPhmass.m
 Meth Date : 08-Nov-2011 08:36 dlb Quant Type: ESTD
 Cal Date : 02-NOV-2011 17:30 Cal File: sv19b056.d
 Als bottle: 57 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1.00000	Volume of sample extracted (mL)
Vt	1.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 Naphthalene	7.879	7.881	-0.002	139338681	49.0256	49.0
2 2-Methylnaphthalene	8.266	8.266	0.000	132335257	55.6267	55.6
\$ 3 2-Fluorobiphenyl	8.453	8.454	-0.001	126473294	51.4645	51.5
4 Acenaphthylene	8.765	8.767	-0.002	136751456	49.4891	49.5
\$ 5 2-Bromonaphthalene	8.838	8.839	-0.001	85304529	54.3764	54.4
6 Acenaphthene	8.858	8.858	0.000	139305778	47.8689	47.9
7 Fluorene	9.131	9.133	-0.002	138659834	50.0363	50.0
8 Phenanthrene	9.658	9.658	0.000	139031327	50.3612	50.4
9 Anthracene	9.688	9.689	-0.001	133992045	50.4869	50.5
\$ 10 O-Terphenyl	9.822	9.823	-0.001	162371730	55.0637	55.1
12 Fluoranthene	10.327	10.329	-0.002	139951783	49.6082	49.6
13 Pyrene	10.467	10.468	-0.001	146018326	51.1362	51.1
14 Benzo(a)Anthracene	11.209	11.215	-0.006	140091684	50.4462	50.4

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
15 Chrysene	11.242	11.246	-0.004	137066815	49.8756	49.9
16 Benzo(b)Fluoranthene	12.083	12.088	-0.005	284470342	101.114	101 (M2)
17 Benzo(k)Fluoranthene	12.083	12.088	-0.005	284470342	101.114	101 (M2)
18 Benzo(a)Pyrene	12.366	12.373	-0.007	141233811	50.9376	50.9
19 Indo(1,2,3cd)Pyrene	13.620	13.632	-0.012	279620012	104.373	104
20 Dibenzo(a,h)Anthracene	13.620	13.632	-0.012	279620012	104.373	104 (M1)
21 Benzo(g,h,i)Perylene	13.992	14.001	-0.009	145927664	52.5299	52.5
M 22 Arom C11-C22				2373794815	862.915	863
M 113 Total Surrogate Area				374149553		(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M1- Compound response manually integrated because Target system did not integrate.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Date : 02-NOV-2011 17:55

Client ID: 1 84-7-10

Sample Info: 1600x1 84-7-10

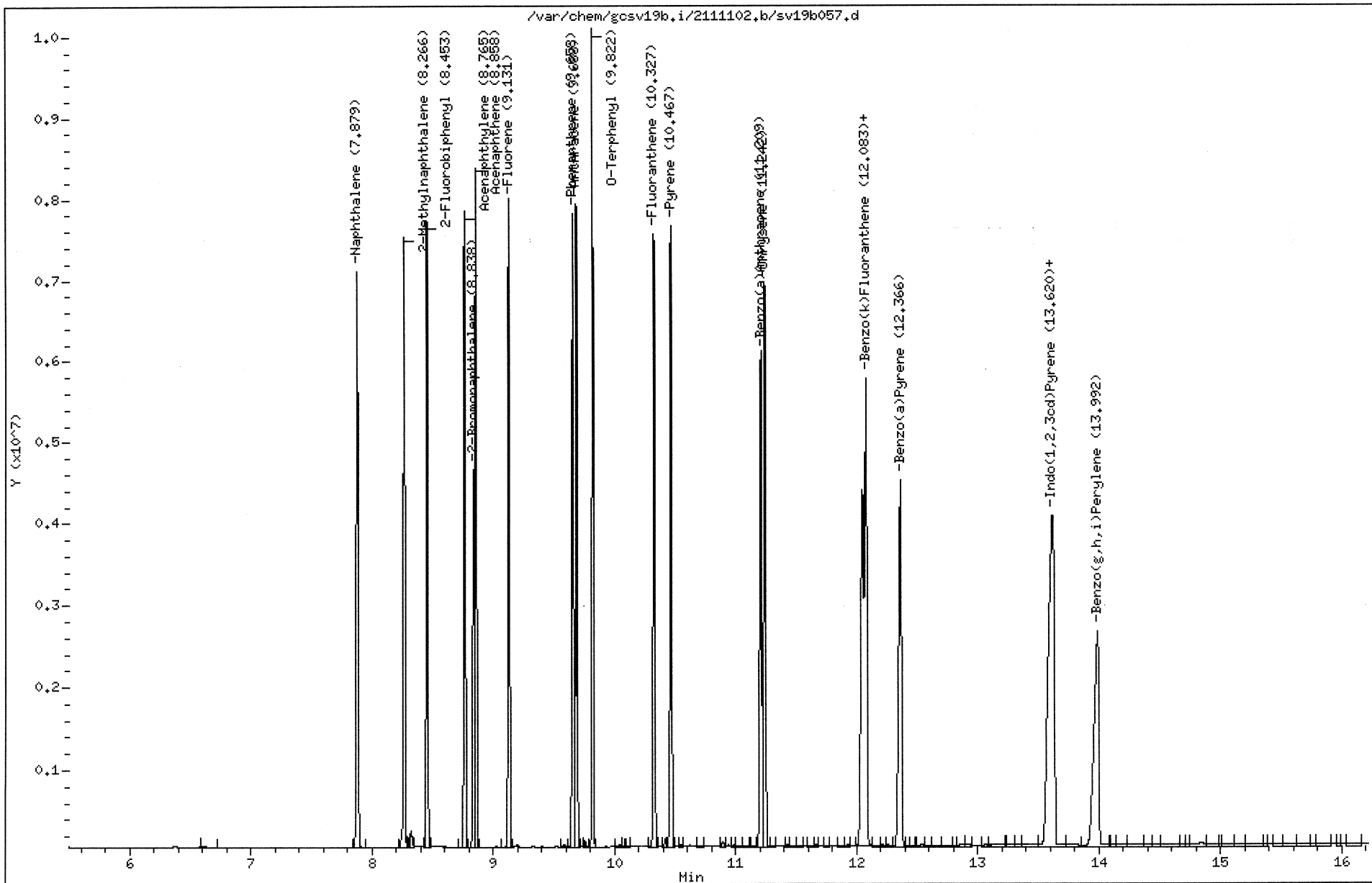
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gosv19b,i

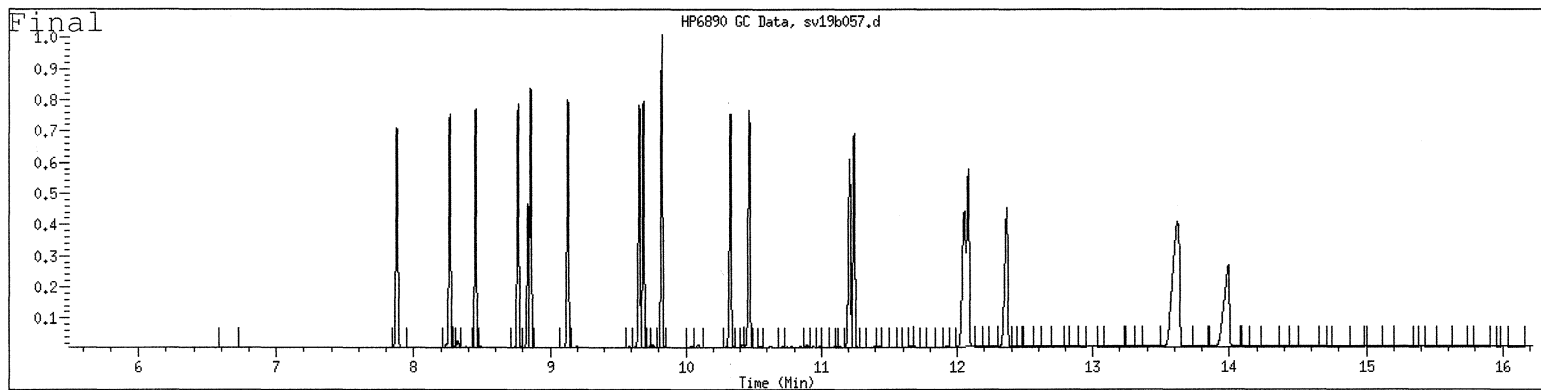
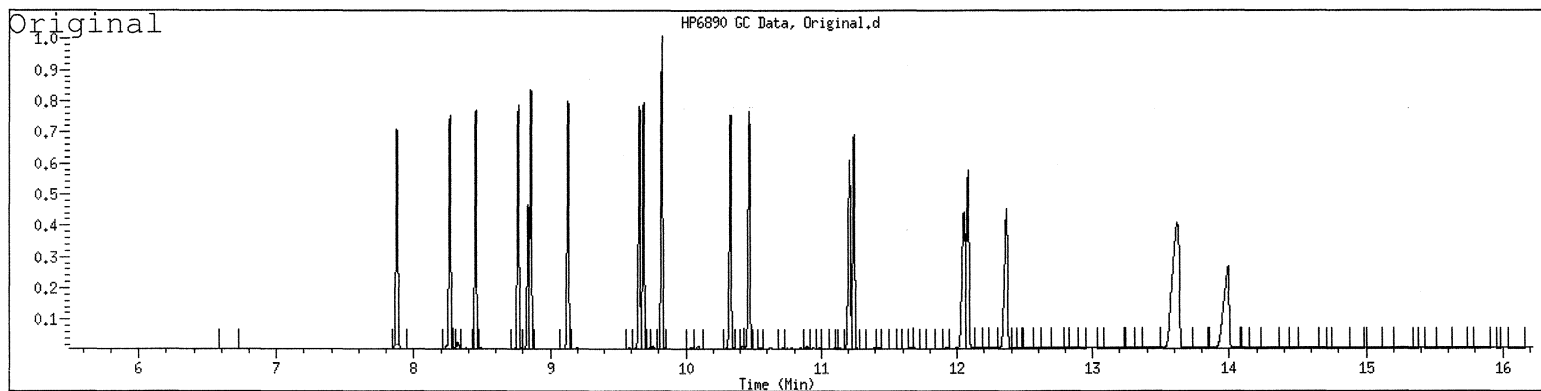
Operator: smh

Column diameter: 0,25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1600 SampleType : LCS
Injection Date: 11/02/2011 17:55 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1600*1 84-7-10
Misc Info :
Method : /var/chem/gcsv19b.i/2111102.b/AROEPhmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all



GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv19b.i Injection Date: 04-NOV-2011 08:48
 Lab File ID: sv19b052.d Init. Cal. Date(s): 02-NOV-2011 03-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 15:55 14:30
 Lab Sample ID: 1400 Quant Type: ESTD
 Method: /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
|1 Naphthalene	| 2842159|	| 2619807|	|0.010|	| 7.82335|	| 25.00000|	| Averaged|	
|2 2-Methylnaphthalene	| 2378988|	| 2198019|	|0.010|	| 7.60700|	| 25.00000|	| Averaged|	
|\$ 3 2-Fluorobiphenyl	| 2457488|	| 2297333|	|0.010|	| 6.51700|	| 25.00000|	| Averaged|	
|4 Acenaphthylene	| 2763267|	| 2588653|	|0.010|	| 6.31910|	| 25.00000|	| Averaged|	
|\$ 5 2-Bromonaphthalene	| 1568778|	| 1526774|	|0.010|	| 2.67752|	| 25.00000|	| Averaged|	
|6 Acenaphthene	| 2910153|	| 2626227|	|0.010|	| 9.75639|	| 25.00000|	| Averaged|	
|7 Fluorene	| 2771184|	| 2586780|	|0.010|	| 6.65436|	| 25.00000|	| Averaged|	
|8 Phenanthrene	| 2760684|	| 2650730|	|0.010|	| 3.98287|	| 25.00000|	| Averaged|	
|9 Anthracene	| 2653997|	| 2524466|	|0.010|	| 4.88060|	| 25.00000|	| Averaged|	
|\$ 10 O-Terphenyl	| 2948796|	| 2856200|	|0.010|	| 3.14011|	| 25.00000|	| Averaged|	
|\$ 11 Chloro-octadecane	| 2739500|	| +++++|	|0.010|	| +++++|	| 25.00000|	| Averaged|	<-
|12 Fluoranthene	| 2821141|	| 2753536|	|0.010|	| 2.39635|	| 25.00000|	| Averaged|	
|13 Pyrene	| 2855480|	| 2796536|	|0.010|	| 2.06425|	| 25.00000|	| Averaged|	
|14 Benzo(a)Anthracene	| 2777049|	| 2743858|	|0.010|	| 1.19518|	| 25.00000|	| Averaged|	
|15 Chrysene	| 2748172|	| 2706024|	|0.010|	| 1.53368|	| 25.00000|	| Averaged|	
|16 Benzo(b)Fluoranthene	| 2813367|	| 2815382|	|0.010|	| -0.07164|	| 25.00000|	| Averaged|	
|17 Benzo(k)Fluoranthene	| 2813367|	| 2815382|	|0.010|	| -0.07164|	| 25.00000|	| Averaged|	
|18 Benzo(a)Pyrene	| 2772685|	| 2826412|	|0.010|	| -1.93772|	| 25.00000|	| Averaged|	
|19 Indo(1,2,3cd)Pyrene	| 2679052|	| 2753570|	|0.010|	| -2.78150|	| 25.00000|	| Averaged|	
|20 Dibenzo(a,h)Anthracene	| 2679052|	| 2753570|	|0.010|	| -2.78150|	| 25.00000|	| Averaged|	
|21 Benzo(g,h,i)Perylene	| 2777993|	| 2849763|	|0.010|	| -2.58352|	| 25.00000|	| Averaged|	
|M 22 Arom C11-C22	| 2753988|	| 2682866|	|0.010|	| 2.58251|	| 25.00000|	| Averaged|	
|23 Unadjusted Arom C11-C22	| +++++|	| +++++|	|0.010|	| +++++|	| 25.00000|	| Averaged|	<-
|M 113 Total Surrogate Area	| +++++|	| +++++|	|0.010|	| +++++|	| 25.00000|	| Averaged|	<-

|Average %D / Drift Results.
 |=====
 |Calculated Average %D/Drift = 8.15263
 |Maximun Average %D/Drift = 25.00000
 |* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b052.d
 Lab Smp Id: 1400 Client Smp ID: 1 84-12-8
 Inj Date : 04-NOV-2011 08:48
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1400*1 84-12-8
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/AROEPhmass.m
 Meth Date : 08-Nov-2011 13:36 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 52 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS						
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (UG/ML)	ON-COL (UG/ML)	
1 Naphthalene	7.878	7.881	-0.003	130990346	50.0000	46.1	
2 2-Methylnaphthalene	8.264	8.266	-0.002	109900939	50.0000	46.2	
\$ 3 2-Fluorobiphenyl	8.453	8.454	-0.001	114866664	50.0000	46.7	
4 Acenaphthylene	8.764	8.767	-0.003	129432655	50.0000	46.8	
\$ 5 2-Bromonaphthalene	8.838	8.839	-0.001	76338699	50.0000	48.7	
6 Acenaphthene	8.857	8.858	-0.001	131311343	50.0000	45.1	
7 Fluorene	9.131	9.133	-0.002	129338984	50.0000	46.7	
8 Phenanthrene	9.660	9.659	0.001	132536495	50.0000	48.0	
9 Anthracene	9.691	9.689	0.002	126223310	50.0000	47.6	
\$ 10 O-Terphenyl	9.825	9.824	0.001	142810019	50.0000	48.4	
12 Fluoranthene	10.335	10.330	0.005	137676811	50.0000	48.8	
13 Pyrene	10.476	10.471	0.005	139826800	50.0000	49.0	
14 Benzo(a)Anthracene	11.224	11.218	0.006	137192902	50.0000	49.4	

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
15 Chrysene	11.256	11.250	0.006	135301194	50.0000	49.2
16 Benzo(b)Fluoranthene	12.101	12.092	0.009	281538232	100.000	100 (M2)
17 Benzo(k)Fluoranthene	12.101	12.092	0.009	281538232	100.000	100 (M2)
18 Benzo(a)Pyrene	12.386	12.377	0.009	141320615	50.0000	51.0
19 Indo(1,2,3cd)Pyrene	13.641	13.638	0.003	275356972	100.000	103
20 Dibenzo(a,h)Anthracene	13.641	13.638	0.003	275356972	100.000	103 (M1)
21 Benzo(g,h,i)Perylene	14.014	14.006	0.008	142488157	50.0000	51.3
M 22 Arom C11-C22				2280435755	850.000	828
M 113 Total Surrogate Area				334015382	0.00000	(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- M1- Compound response manually integrated because
Target system did not integrate.
- M2- Compound response manually integrated because
Target system integrated incorrectly.

Date : 04-NOV-2011 08:48

Client ID: 1 84-12-8

Sample Info: 1400x1 84-12-8

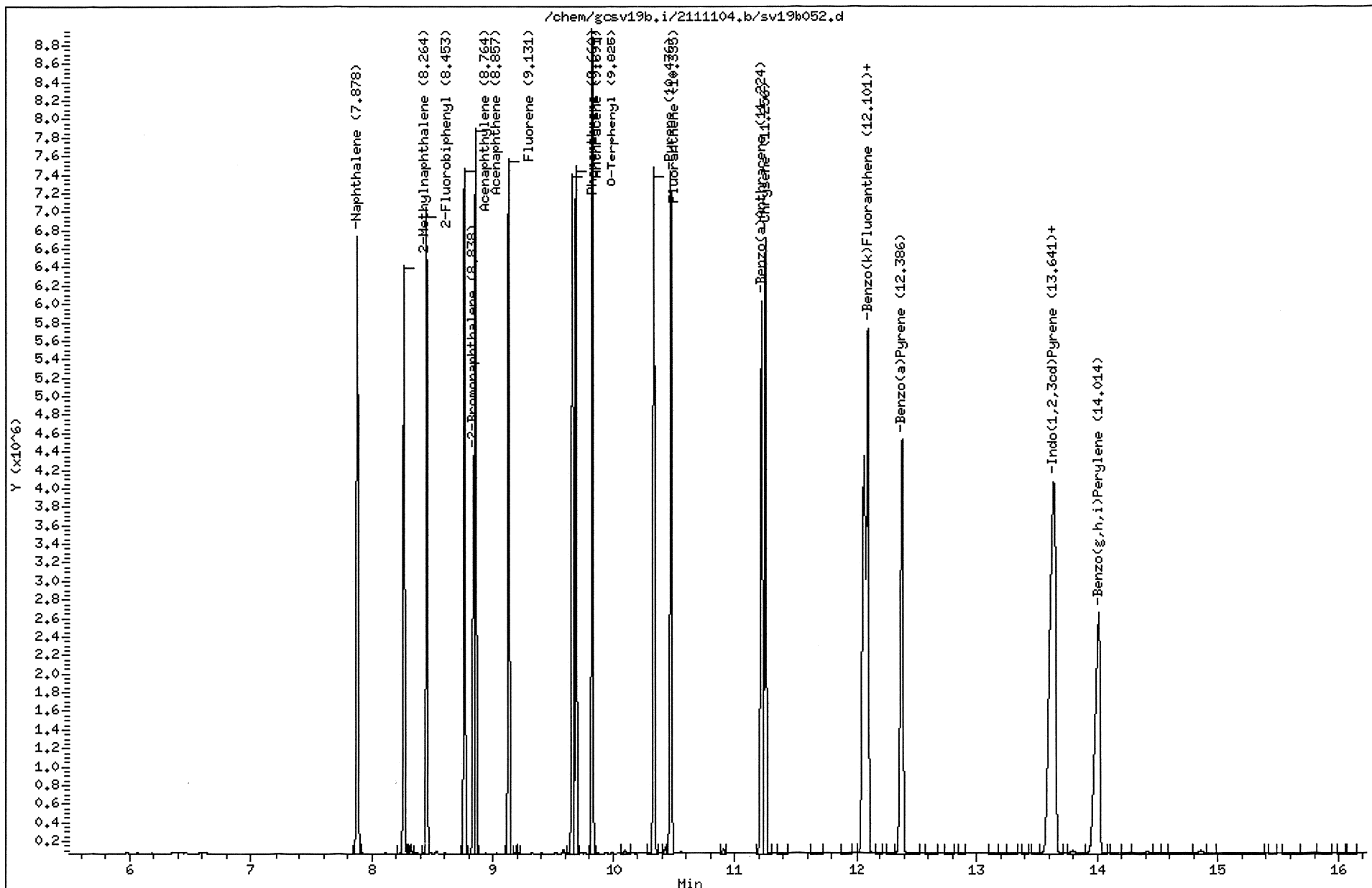
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gcsv19b.i

Operator: smh

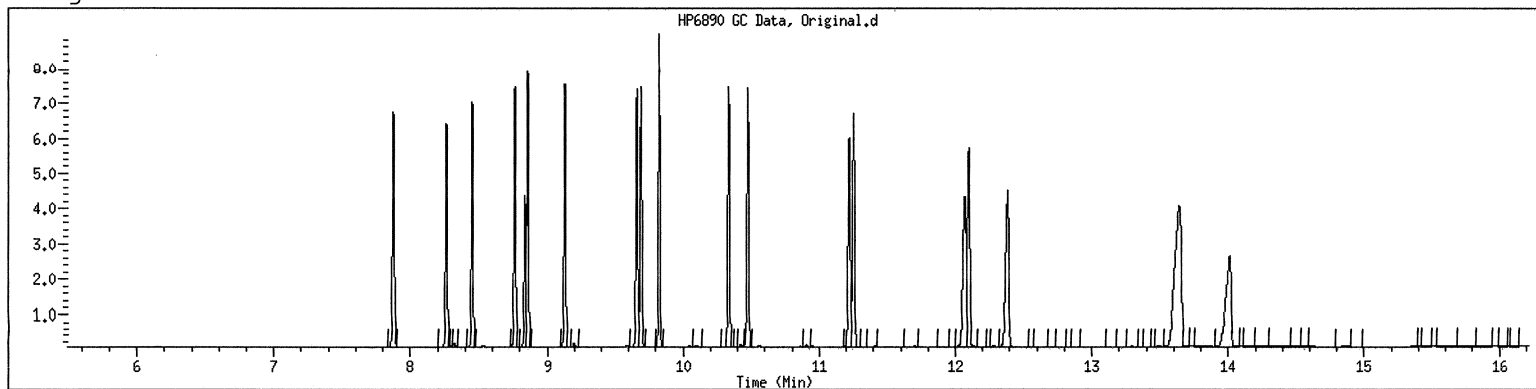
Column diameter: 0.25



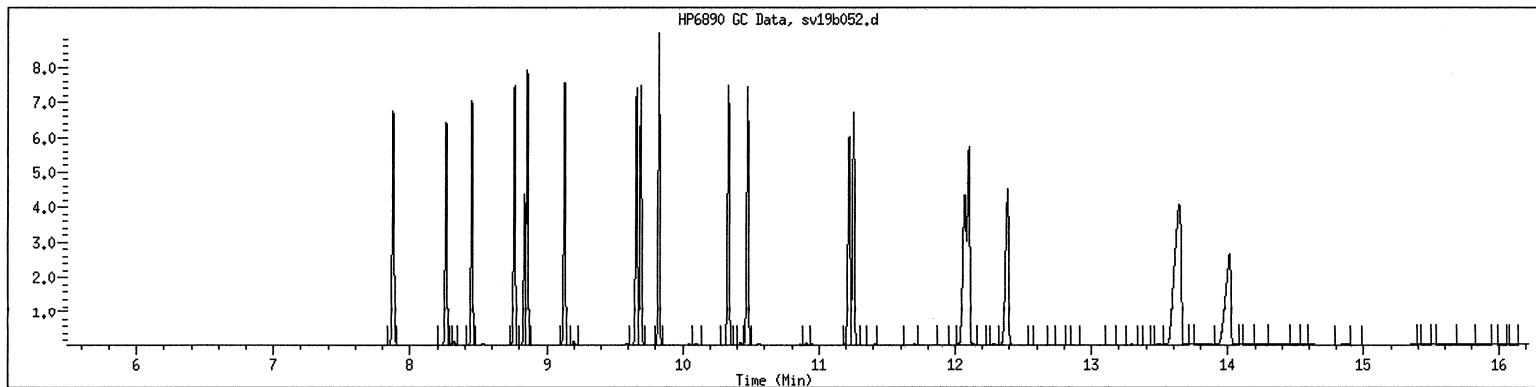
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1400	SampleType	: CCALIB_3
Injection Date	: 11/04/2011 08:48	Instrument	: gcsv19b.i
Operator	: smh		
Sample Info	: 1400*1 84-12-8		
Misc Info	:		
Method	: /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m		
Dilution	: 1.00		
Matrix	: WATER		
Integrator	: HP Genie	Compound Sublist:	: all

Original



Final



GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv19b.i Injection Date: 04-NOV-2011 15:20
 Lab File ID: sv19b064.d Init. Cal. Date(s): 02-NOV-2011 03-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 15:55 14:30
 Lab Sample ID: 1400 Quant Type: ESTD
 Method: /var/chem/gcsv19b.i/2111104.b/AROEPhmass.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D	%DRIFT	
1 Naphthalene	2842159	2687333	0.010	5.44748	25.00000	Averaged	
2 2-Methylnaphthalene	2378988	2259700	0.010	5.01425	25.00000	Averaged	
3 2-Fluorobiphenyl	2457488	2349400	0.010	4.39829	25.00000	Averaged	
4 Acenaphthylene	2763267	2646120	0.010	4.23944	25.00000	Averaged	
5 2-Bromonaphthalene	1568778	1499146	0.010	4.43861	25.00000	Averaged	
6 Acenaphthene	2910153	2782857	0.010	4.37421	25.00000	Averaged	
7 Fluorene	2771184	2681206	0.010	3.24691	25.00000	Averaged	
8 Phenanthrene	2760684	2711677	0.010	1.77521	25.00000	Averaged	
9 Anthracene	2653997	2564916	0.010	3.35649	25.00000	Averaged	
10 O-Terphenyl	2948796	2889155	0.010	2.02255	25.00000	Averaged	
11 Chloro-octadecane	2739500	++++	0.010	+++	25.00000	Averaged	<-
12 Fluoranthene	2821141	2809781	0.010	0.40265	25.00000	Averaged	
13 Pyrene	2855480	2851317	0.010	0.14578	25.00000	Averaged	
14 Benzo(a)Anthracene	2777049	2766429	0.010	0.38242	25.00000	Averaged	
15 Chrysene	2748172	2741093	0.010	0.25759	25.00000	Averaged	
16 Benzo(b)Fluoranthene	2813367	2836361	0.010	-0.81732	25.00000	Averaged	
17 Benzo(k)Fluoranthene	2813367	2836361	0.010	-0.81732	25.00000	Averaged	
18 Benzo(a)Pyrene	2772685	2835814	0.010	-2.27681	25.00000	Averaged	
19 Indo(1,2,3cd)Pyrene	2679052	2768701	0.010	-3.34630	25.00000	Averaged	
20 Dibenzo(a,h)Anthracene	2679052	2768701	0.010	-3.34630	25.00000	Averaged	
21 Benzo(g,h,i)Perylene	2777993	2891876	0.010	-4.09945	25.00000	Averaged	
M 22 Arom C11-C22	2753988	2731779	0.010	0.80642	25.00000	Averaged	
23 Unadjusted Arom C11-C22	+++	+++	0.010	+++	25.00000	Averaged	<-
M 113 Total Surrogate Area	+++	+++	0.010	+++	25.00000	Averaged	<-

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 7.04599
 Maximun Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b064.d
 Lab Smp Id: 1400 Client Smp ID: 1 84-12-8
 Inj Date : 04-NOV-2011 15:20
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1400*1 84-12-8
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/AROEPhmass.m
 Meth Date : 08-Nov-2011 13:57 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 64 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS						
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (UG/ML)	ON-COL (UG/ML)	
1 Naphthalene	7.879	7.881	-0.002	134366638	50.0000	47.3	
2 2-Methylnaphthalene	8.266	8.266	0.000	112984994	50.0000	47.5	
\$ 3 2-Fluorobiphenyl	8.454	8.455	-0.001	117470022	50.0000	47.8	
4 Acenaphthylene	8.765	8.767	-0.002	132305981	50.0000	47.9	
\$ 5 2-Bromonaphthalene	8.839	8.839	0.000	74957316	50.0000	47.8	
6 Acenaphthene	8.858	8.859	-0.001	139142828	50.0000	47.8	
7 Fluorene	9.132	9.133	-0.001	134060320	50.0000	48.4	
8 Phenanthrene	9.660	9.659	0.001	135583832	50.0000	49.1	
9 Anthracene	9.690	9.689	0.001	128245811	50.0000	48.3	
\$ 10 O-Terphenyl	9.824	9.824	0.000	144457740	50.0000	49.0	
12 Fluoranthene	10.332	10.330	0.002	140489058	50.0000	49.8	
13 Pyrene	10.472	10.470	0.002	142565866	50.0000	49.9	
14 Benzo(a)Anthracene	11.218	11.217	0.001	138321435	50.0000	49.8	

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
15 Chrysene	11.250	11.248	0.002	137054658	50.0000	49.9
16 Benzo(b)Fluoranthene	12.093	12.091	0.002	283636086	100.000	101 (M2)
17 Benzo(k)Fluoranthene	12.093	12.091	0.002	283636086	100.000	101 (M2)
18 Benzo(a)Pyrene	12.377	12.376	0.001	141790710	50.0000	51.1
19 Indo(1,2,3cd)Pyrene	13.634	13.636	-0.002	276870121	100.000	103
20 Dibenzo(a,h)Anthracene	13.634	13.636	-0.002	276870121	100.000	103 (M1)
21 Benzo(g,h,i)Perylene	14.006	14.005	0.001	144593787	50.0000	52.0
M 22 Arom C11-C22				2322012125	850.000	843
M 113 Total Surrogate Area				336885078	0.00000	(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M1- Compound response manually integrated because Target system did not integrate.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Date : 04-NOV-2011 15:20

Client ID: 1 84-12-8

Instrument: gcsv19b.i

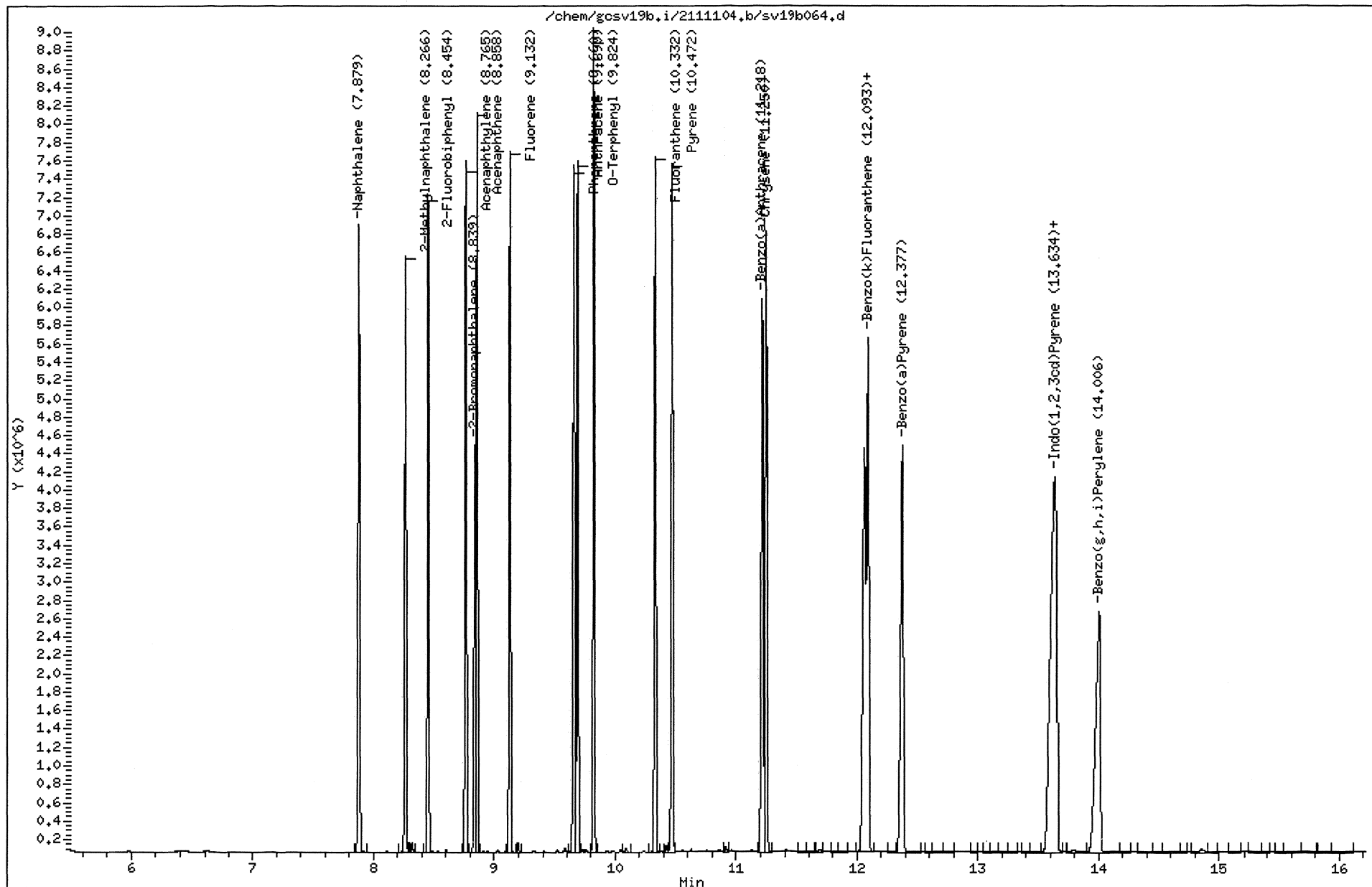
Sample Info: 1400*1 84-12-8

Volume Injected (uL): 1.0

Operator: smh

Column phase: DB-5MS-30M

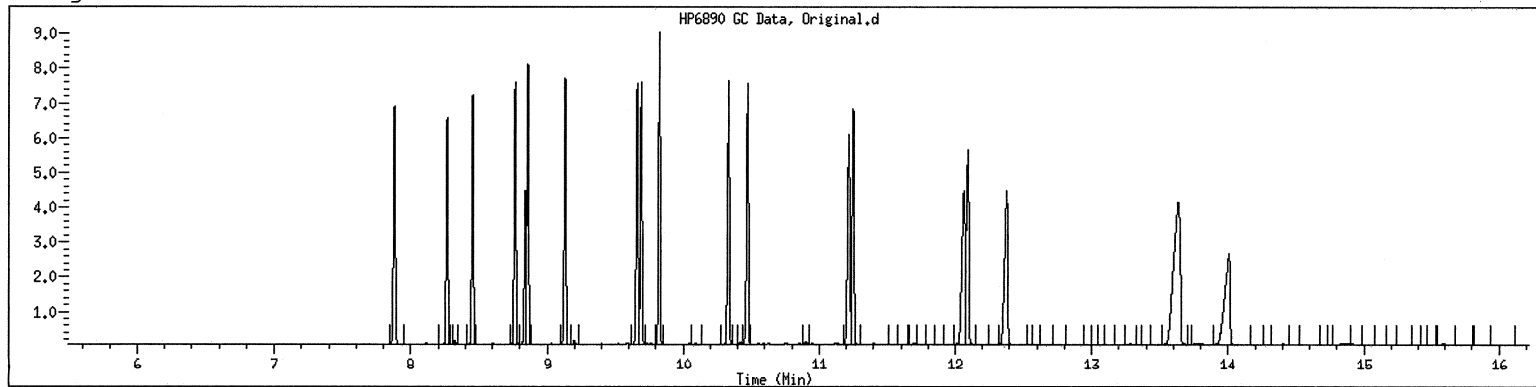
Column diameter: 0.25



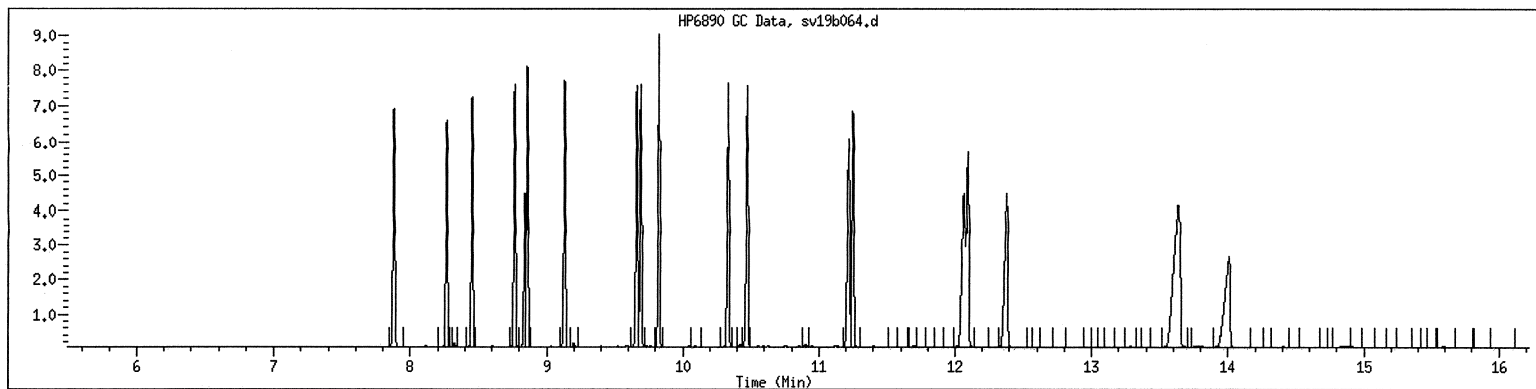
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1400 SampleType : CCALIB_3
Injection Date: 11/04/2011 15:20 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1400*1 84-12-8
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv19b.i Injection Date: 04-NOV-2011 21:02
 Lab File ID: sv19b078.d Init. Cal. Date(s): 02-NOV-2011 03-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 15:55 14:30
 Lab Sample ID: 1400 Quant Type: ESTD
 Method: /var/chem/gcsv19b.i/2111104.b/AROEPMass.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	MAX %D / %DRIFT	CURVE TYPE
1 Naphthalene	2842159	2738058	0.010	3.66273	Averaged
2 2-Methylnaphthalene	2378988	2294921	0.010	3.53373	Averaged
3 2-Fluorobiphenyl	2457488	2378493	0.010	3.21447	Averaged
4 Acenaphthylene	2763267	2684675	0.010	2.84417	Averaged
5 2-Bromonaphthalene	1568778	1616043	0.010	-3.01283	Averaged
6 Acenaphthene	2910153	2709141	0.010	6.90725	Averaged
7 Fluorene	2771184	2705485	0.010	2.37081	Averaged
8 Phenanthrene	2760684	2732439	0.010	1.02312	Averaged
9 Anthracene	2653997	2601571	0.010	1.97535	Averaged
10 O-Terphenyl	2948796	2905163	0.010	1.47967	Averaged
11 Chloro-octadecane	2739500	++++	0.010	++++	Averaged<-
12 Fluoranthene	2821141	2829367	0.010	-0.29161	Averaged
13 Pyrene	2855480	2878648	0.010	-0.81133	Averaged
14 Benzo(a)Anthracene	2777049	2821100	0.010	-1.58626	Averaged
15 Chrysene	2748172	2767613	0.010	-0.70740	Averaged
16 Benzo(b)Fluoranthene	2813367	2894257	0.010	-2.87521	Averaged
17 Benzo(k)Fluoranthene	2813367	2894257	0.010	-2.87521	Averaged
18 Benzo(a)Pyrene	2772685	2879567	0.010	-3.85480	Averaged
19 Indo(1,2,3cd)Pyrene	2679052	2824695	0.010	-5.43636	Averaged
20 Dibenzo(a,h)Anthracene	2679052	2824695	0.010	-5.43636	Averaged
21 Benzo(g,h,i)Perylene	2777993	2907536	0.010	-4.66317	Averaged
M 22 Arom C11-C22	2753988	2764001	0.010	-0.36361	Averaged
23 Unadjusted Arom C11-C22	++++	++++	0.010	++++	Averaged<-
M 113 Total Surrogate Area	++++	++++	0.010	++++	Averaged<-

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 7.22388
 Maximun Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b078.d
 Lab Smp Id: 1400 Client Smp ID: 1 84-12-8
 Inj Date : 04-NOV-2011 21:02
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1400*1 84-12-8
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/AROEPMass.m
 Meth Date : 08-Nov-2011 14:08 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 78 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS						
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (UG/ML)	ON-COL (UG/ML)	
1 Naphthalene	7.879	7.881	-0.002	136902912	50.0000	48.2	
2 2-Methylnaphthalene	8.266	8.266	0.000	114746068	50.0000	48.2	
\$ 3 2-Fluorobiphenyl	8.453	8.455	-0.002	118924633	50.0000	48.4	
4 Acenaphthylene	8.766	8.767	-0.001	134233727	50.0000	48.6	
\$ 5 2-Bromonaphthalene	8.839	8.839	0.000	80802145	50.0000	51.5	
6 Acenaphthene	8.858	8.858	0.000	135457066	50.0000	46.5	
7 Fluorene	9.132	9.133	-0.001	135274249	50.0000	48.8	
8 Phenanthrene	9.660	9.659	0.001	136621969	50.0000	49.5	
9 Anthracene	9.690	9.689	0.001	130078572	50.0000	49.0	
\$ 10 O-Terphenyl	9.824	9.824	0.000	145258158	50.0000	49.3	
12 Fluoranthene	10.332	10.330	0.002	141468360	50.0000	50.1	
13 Pyrene	10.472	10.470	0.002	143932378	50.0000	50.4	
14 Benzo(a)Anthracene	11.217	11.216	0.001	141054993	50.0000	50.8	

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
15 Chrysene	11.249	11.248	0.001	138380641	50.0000	50.4
16 Benzo(b)Fluoranthene	12.092	12.091	0.001	289425705	100.000	103 (M2)
17 Benzo(k)Fluoranthene	12.092	12.091	0.001	289425705	100.000	103 (M2)
18 Benzo(a)Pyrene	12.376	12.376	0.000	143978345	50.0000	51.9
19 Indo(1,2,3cd)Pyrene	13.631	13.636	-0.005	282469487	100.000	105 (M1)
20 Dibenzo(a,h)Anthracene	13.631	13.636	-0.005	282469487	100.000	105
21 Benzo(g,h,i)Perylene	14.004	14.004	0.000	145376792	50.0000	52.3
M 22 Arom C11-C22				2349401264	850.000	853
M 113 Total Surrogate Area				344984936	0.00000	(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M1- Compound response manually integrated because Target system did not integrate.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Date : 04-NOV-2011 21:02

Client ID: 1 84-12-8

Sample Info: 1400x1 84-12-8

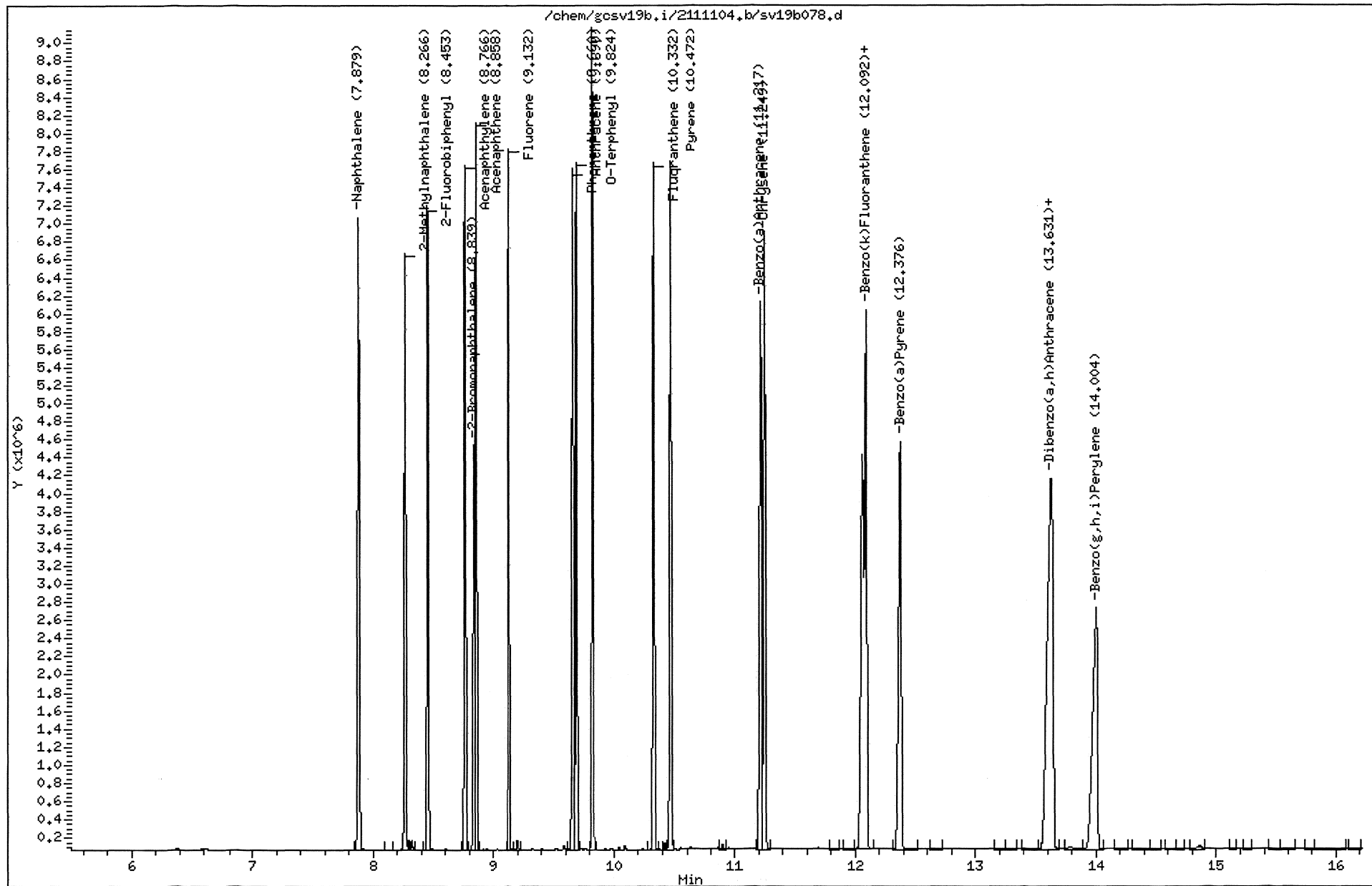
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gcsv19b.i

Operator: smh

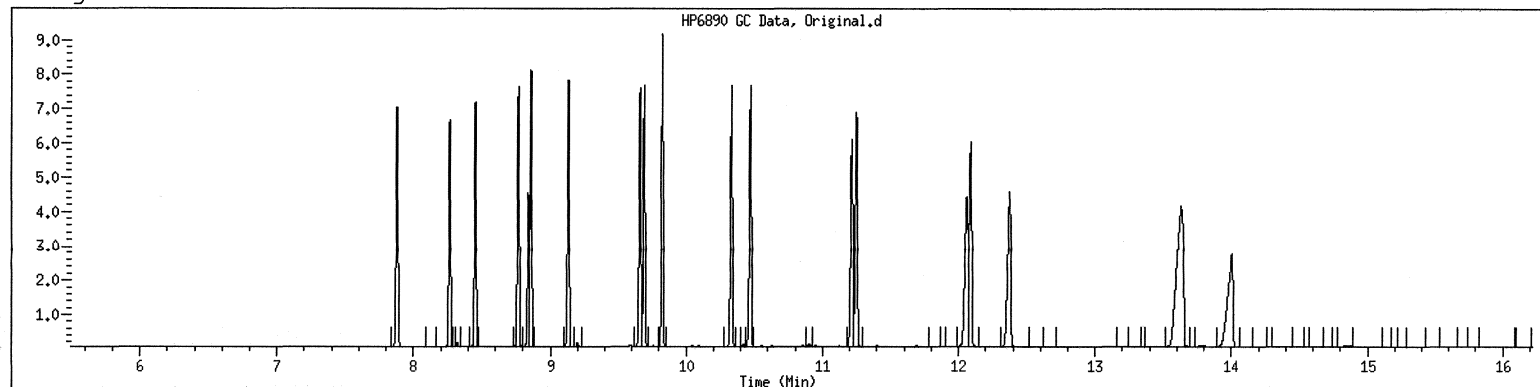
Column diameter: 0.25



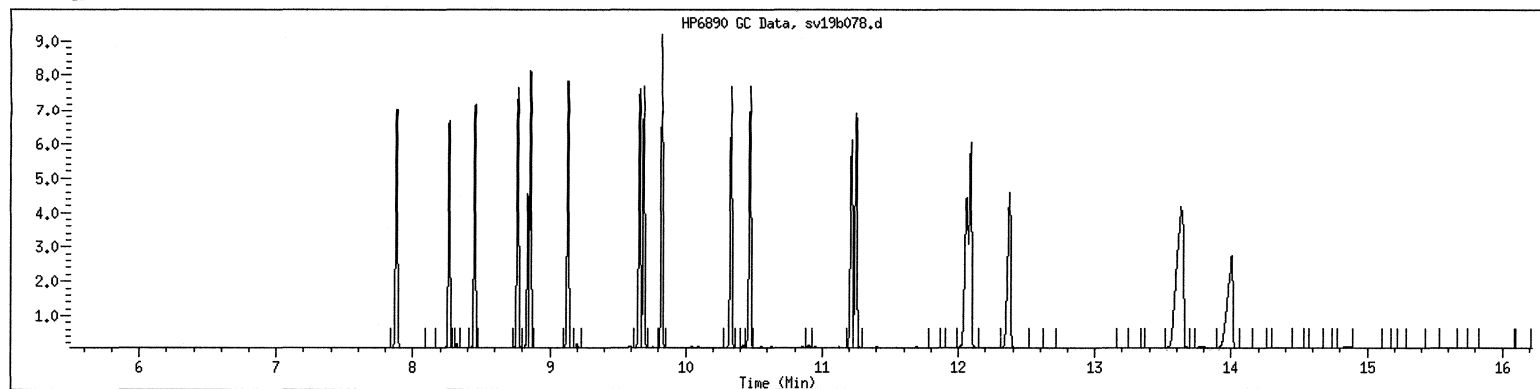
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1400 SampleType : CCALIB_3
Injection Date: 11/04/2011 21:02 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1400*1 84-12-8
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: MB1002043
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211103124
 Sample wt/vol: 1000 Units: mL Lab Sample ID: 1002043
 Level: (low/med) LOW Date Collected: _____ Time: _____
 % Moisture: _____ decanted: (Y/N) _____ Date Received: _____
 GC Column: DB-5MS-30M ID: .25 (mm) Date Extracted: 11/02/11
 Concentrated Extract Volume: 2000 (µL) Date Analyzed: 11/04/11 Time: 1118
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: SMH
 Injection Volume: 1 (µL) Prep Method: MASS EPH
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSEPH
 Prep Batch: 468306 Analytical Batch: 468719 Sulfur Cleanup: (Y/N) N Instrument ID: GCS19B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111104/sv19b054

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCSV-02-22	C11-C22 Aromatics	42.1	U	42.1	42.1	100
GCSV-02-23	C9-C18 Aliphatic Hydrocarbons	21.8	U	21.8	21.8	100
GCSV-02-24	C19-C36 Aliphatic Hydrocarbons	60.0	U	31.3	60.0	100

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b054.d
 Lab Smp Id: 1002043 Client Smp ID: 1 84-15-4
 Inj Date : 04-NOV-2011 11:18
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1002043*1 mb w
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/AROEPhmass.m
 Meth Date : 08-Nov-2011 14:38 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 54
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
\$ 3 2-Fluorobiphenyl	8.450	8.454	-0.004	40311135	16.4034	32.8
\$ 5 2-Bromonaphthalene	8.837	8.839	-0.002	29205418	18.6167	37.2
\$ 10 O-Terphenyl	9.836	9.823	0.013	46231712	15.6782	31.4
\$ 11 Chloro-octadecane	10.186	10.174	0.012	43871918	16.0146	32.0
M 113 Total Surrogate Area				159620183		(a)

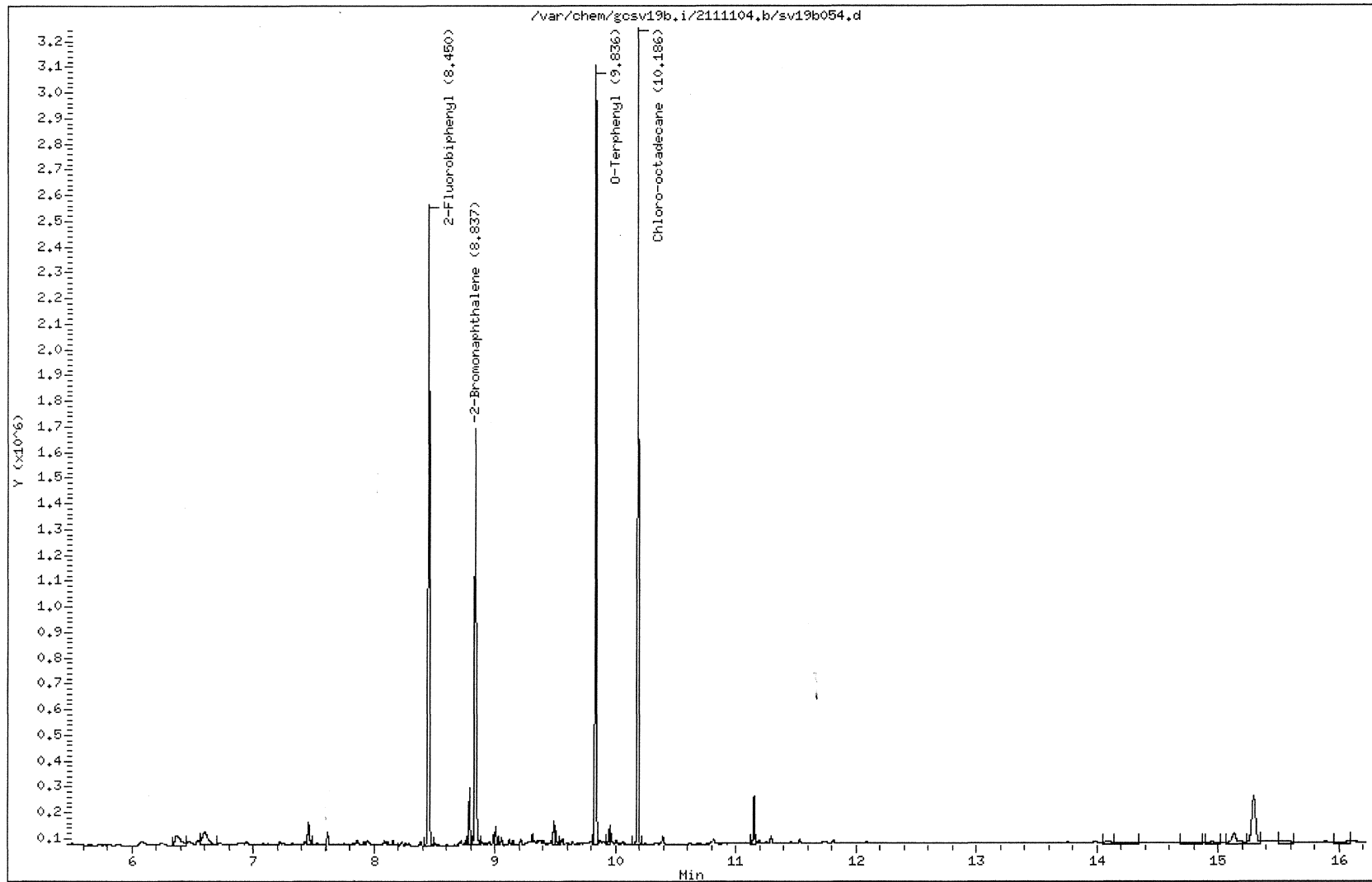
QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation (BLOQ).

Data File: /var/chem/gcsv19b.i/2111104,b/sv19b054.d
Date : 04-NOV-2011 11:18
Client ID: 1 84-15-4
Sample Info: 1002043*1 mb w
Volume Injected (uL): 1.0
Column phase: DB-5MS-30M

Page 1

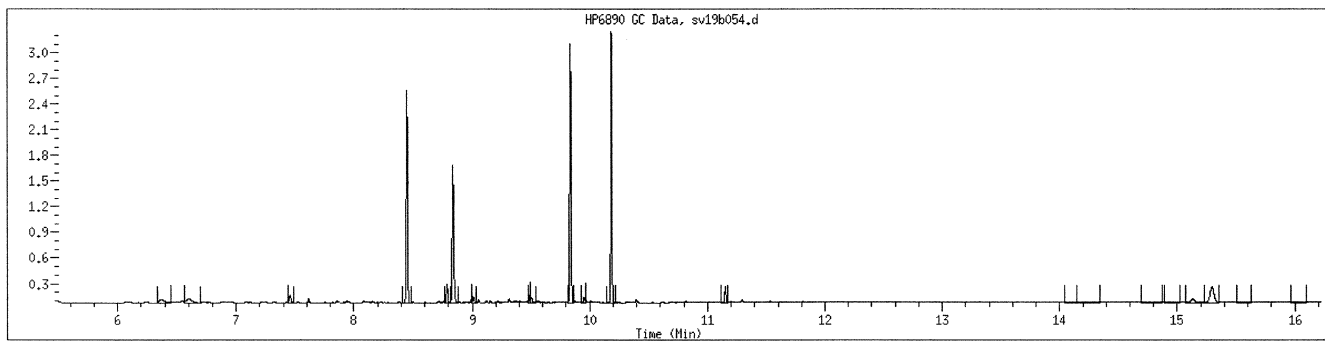
Instrument: gcsv19b.i
Operator: smh
Column diameter: 0.25



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1002043 SampleType : SAMPLE
Injection Date: 11/04/2011 11:18 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1002043*1 mb w
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/AROEPhmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b055.d
 Lab Smp Id: 1002043 Client Smp ID: 1 mb w
 Inj Date : 04-NOV-2011 11:42
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1002043*1 mb w
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 13:36 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 55
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
10 C-18	9.005	9.504	-0.499	29350351	9.71451	19.4 (M1)
M 11 Alip C9-C18				29350351	9.71451	19.4
114 C-36	10.173	15.144	-4.971	37956568	12.9738	25.9 (AM1)
M 24 Alip C19-C36				37956568	12.9738	25.9

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M1- Compound response manually integrated because Target system did not integrate.

Data File: /var/chem/gosv19b.i/2111104.b/sv19b055.d

Page 1

Date : 04-NOV-2011 11:42

Client ID: 1 mb w

Instrument: gosv19b.i

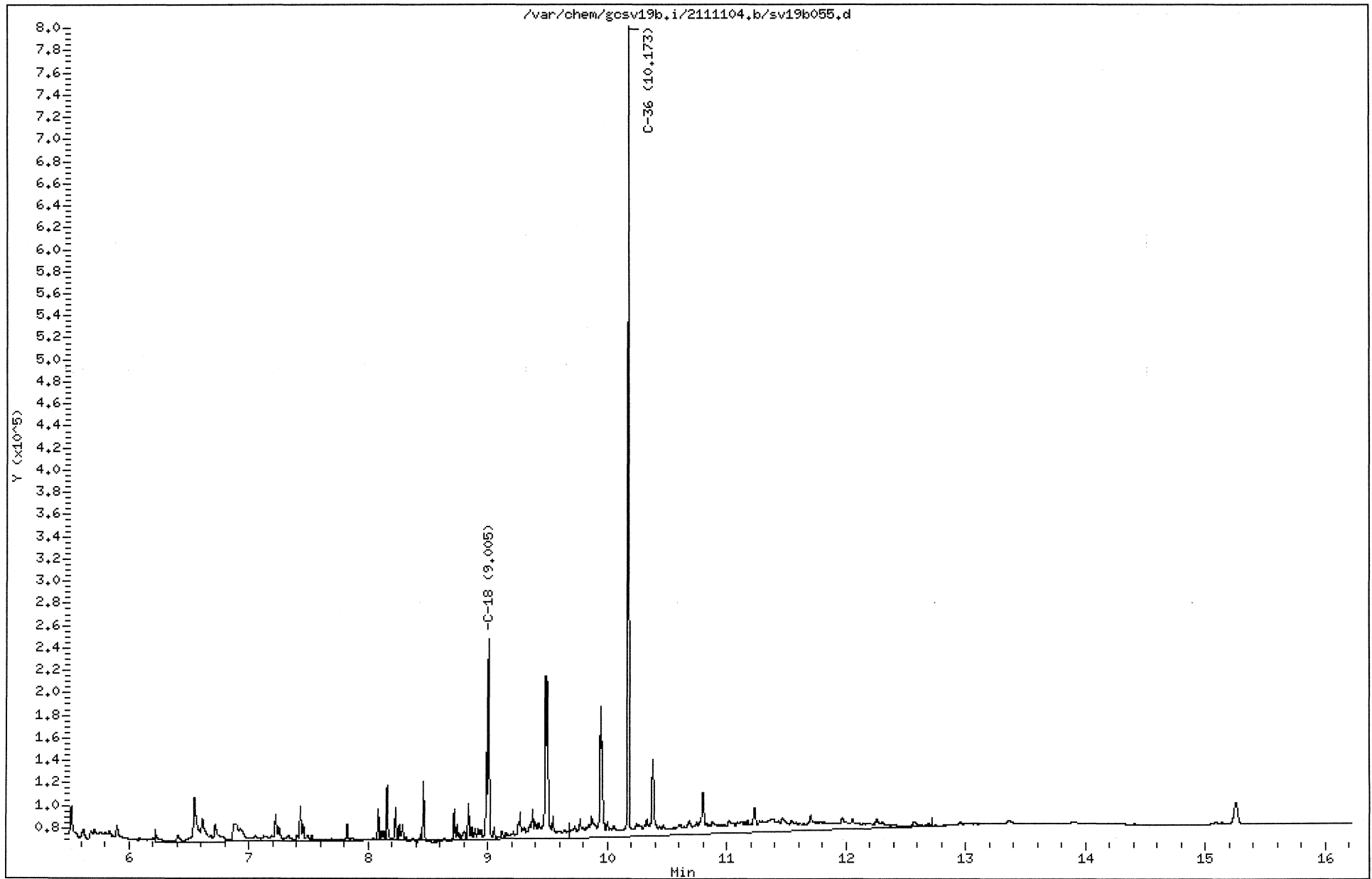
Sample Info: 1002043*1 mb w

Volume Injected (uL): 1.0

Operator: smh

Column phase: DB-5MS-30M

Column diameter: 0.25

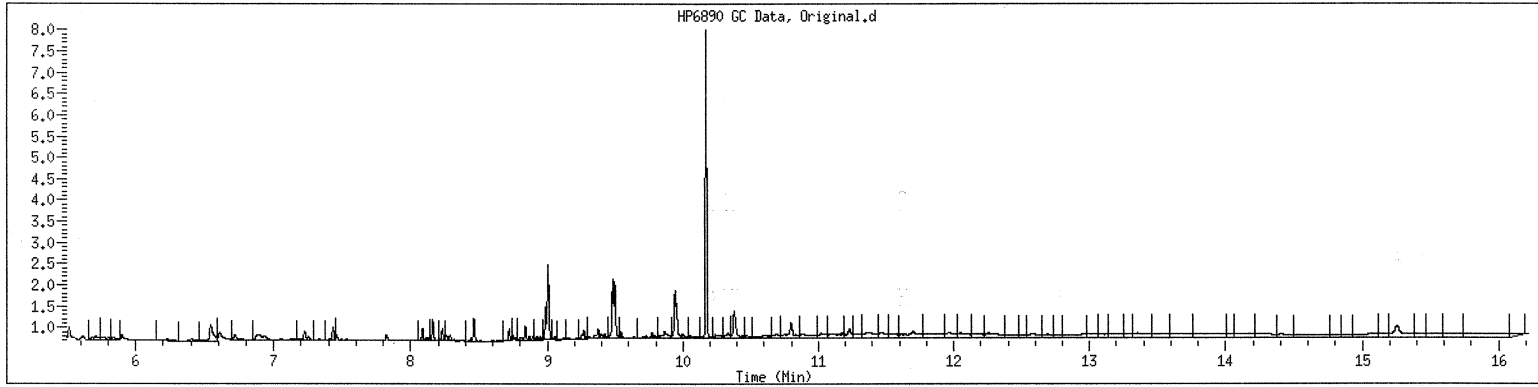


211103124 124

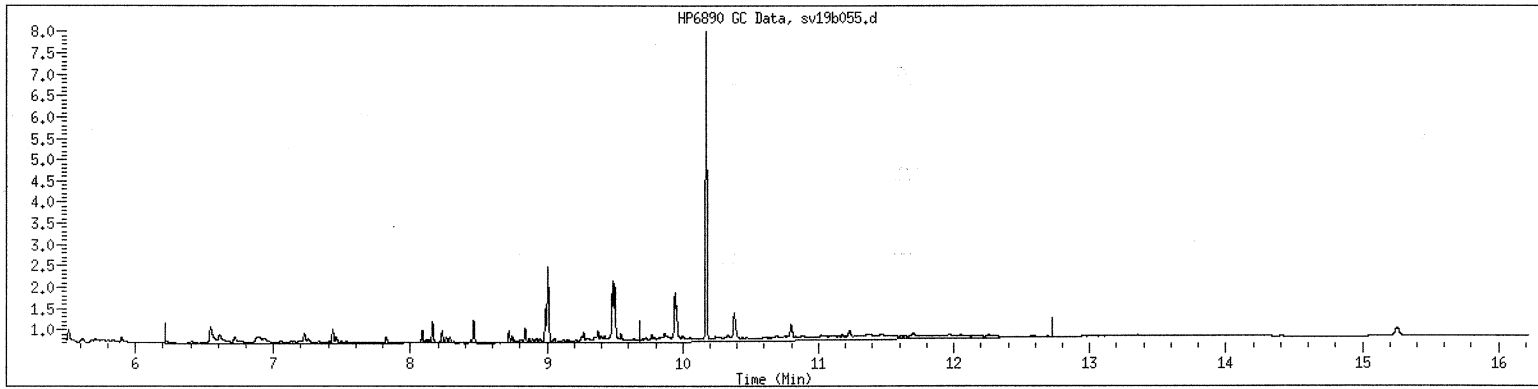
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1002043 SampleType : SAMPLE
Injection Date: 11/04/2011 11:42 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1002043*1 mb w
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph

Original



Final



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: LCS1002044
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211103124
 Sample wt/vol: 1000 Units: mL Lab Sample ID: 1002044
 Level: (low/med) LOW Date Collected: _____ Time: _____
 % Moisture: _____ decanted: (Y/N) _____ Date Received: _____
 GC Column: DB-5MS-30M ID: .25 (mm) Date Extracted: 11/02/11
 Concentrated Extract Volume: 2000 (µL) Date Analyzed: 11/04/11 Time: 1206
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: SMH
 Injection Volume: 1 (µL) Prep Method: MASS EPH
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSEPH
 Prep Batch: 468306 Analytical Batch: 468719 Sulfur Cleanup: (Y/N) N Instrument ID: GCS19B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111104/sv19b056

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCSV-02-22	C11-C22 Aromatics	164		42.1	42.1	100
GCSV-02-23	C9-C18 Aliphatic Hydrocarbons	47.3	J	21.8	21.8	100
GCSV-02-24	C19-C36 Aliphatic Hydrocarbons	128		31.3	60.0	100

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b056.d
 Lab Smp Id: 1002044 Client Smp ID: 1 lcs
 Inj Date : 04-NOV-2011 12:06
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1002044*1 lcs
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/AROEPhmass.m
 Meth Date : 08-Nov-2011 14:38 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 56 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 Naphthalene	7.874	7.881	-0.007	42244447	14.8635	29.7
\$ 3 2-Fluorobiphenyl	8.450	8.454	-0.004	49564137	20.1686	40.3
\$ 5 2-Bromonaphthalene	8.834	8.839	-0.005	25190730	16.0575	32.1
6 Acenaphthene	8.853	8.858	-0.005	48565269	16.6882	33.4
9 Anthracene	9.686	9.688	-0.002	45807441	17.2598	34.5
\$ 10 O-Terphenyl	9.823	9.823	0.000	40477952	13.7269	27.5
\$ 11 Chloro-octadecane	10.167	10.174	-0.007	40322170	14.7188	29.4
13 Pyrene	10.474	10.468	0.006	45724998	16.0131	32.0
15 Chrysene	11.251	11.245	0.006	47755889	17.3773	34.8
M 22 Arom C11-C22				230098044	82.2019	164
M 113 Total Surrogate Area				155554989		(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

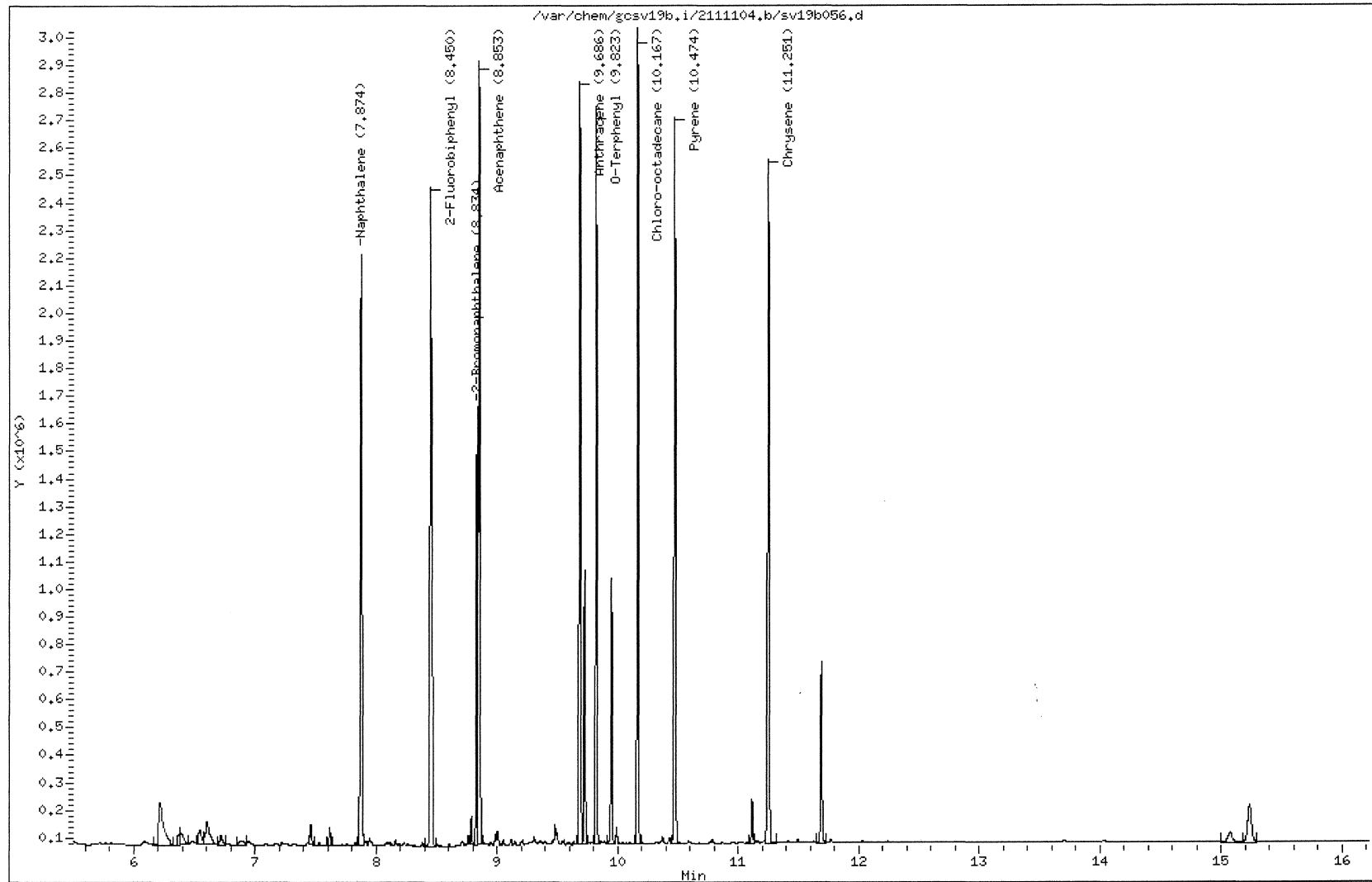
Data File: /var/chem/gcsv19b.i/2111104.b/sv19b056.d
Date : 04-NOV-2011 12:06
Client ID: 1 lcs
Sample Info: 1002044*1 lcs
Volume Injected (uL): 1.0
Column phase: DB-5MS-30M

Page 1

Instrument: gcsv19b.i

Operator: smh

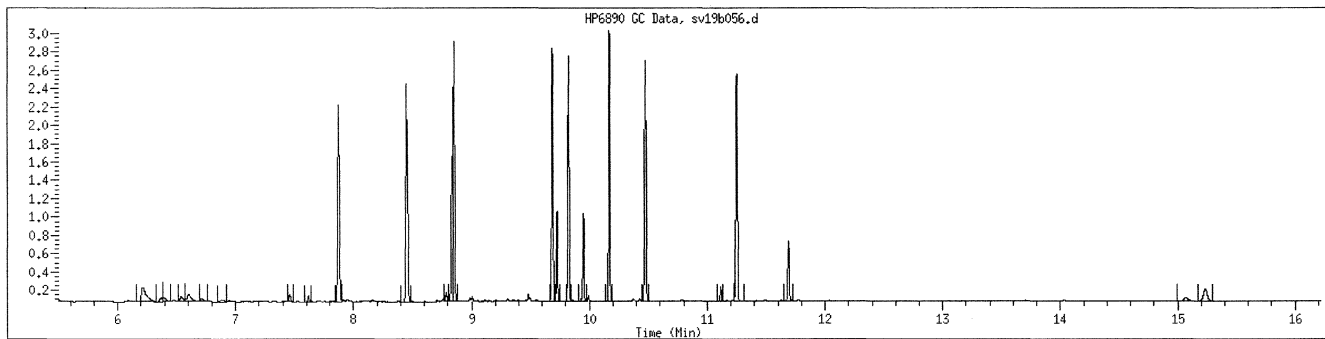
Column diameter: 0.25



211103124 129

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1002044 SampleType : LCS
Injection Date: 11/04/2011 12:06 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1002044*1 lcs
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/AROEPhmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b057.d
 Lab Smp Id: 1002044 Client Smp ID: 1 lcs
 Inj Date : 04-NOV-2011 12:30
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1002044*1 lcs
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 13:36 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 57 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmaseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

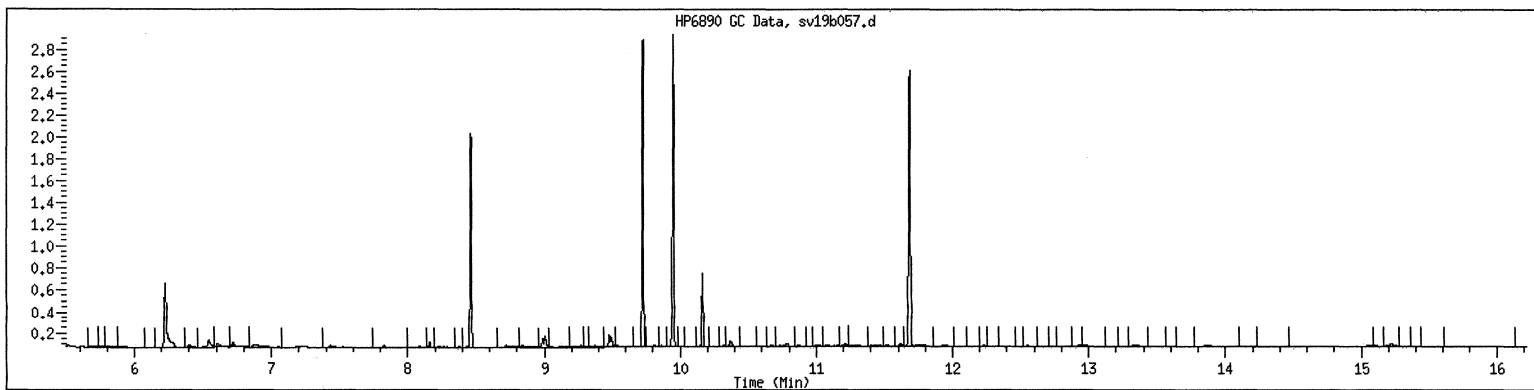
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 C-9	6.226	6.232	-0.006	15373623	5.65344	11.3 (R)
6 C-14	8.462	8.471	-0.009	27700747	9.62454	19.2 (R)
M 11 Alip C9-C18				43074370	15.2780	30.6
12 C-19	9.725	9.774	-0.049	37123735	12.3039	24.6
13 C-20	9.948	9.957	-0.009	39242445	12.8862	25.8
\$ 15 Chlorooctadecane	10.162	10.216	-0.054	9156663	3.34236	6.68 (R)
22 C-28	11.685	11.724	-0.039	45678279	14.7540	29.5
M 24 Alip C19-C36				122044459	39.9441	79.9

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1002044 SampleType : LCS
Injection Date: 11/04/2011 12:30 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1002044*1 lcs
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: LCSD1002045
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211103124
 Sample wt/vol: 1000 Units: mL Lab Sample ID: 1002045
 Level: (low/med) LOW Date Collected: _____ Time: _____
 % Moisture: _____ decanted: (Y/N) _____ Date Received: _____
 GC Column: DB-5MS-30M ID: .25 (mm) Date Extracted: 11/02/11
 Concentrated Extract Volume: 2000 (µL) Date Analyzed: 11/04/11 Time: 1254
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: SMH
 Injection Volume: 1 (µL) Prep Method: MASS EPH
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSEPH
 Prep Batch: 468306 Analytical Batch: 468719 Sulfur Cleanup: (Y/N) N Instrument ID: GCS19B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111104/sv19b058

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCSV-02-22	C11-C22 Aromatics	178		42.1	42.1	100
GCSV-02-23	C9-C18 Aliphatic Hydrocarbons	42.8	J	21.8	21.8	100
GCSV-02-24	C19-C36 Aliphatic Hydrocarbons	107		31.3	60.0	100

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b058.d
 Lab Smp Id: 1002045 Client Smp ID: 1 lcsd
 Inj Date : 04-NOV-2011 12:54
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1002045* 1 lcsd
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m
 Meth Date : 08-Nov-2011 14:38 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 58 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 Naphthalene	7.874	7.881	-0.007	40000849	14.0741	28.1
\$ 3 2-Fluorobiphenyl	8.450	8.454	-0.004	46349541	18.8605	37.7
\$ 5 2-Bromonaphthalene	8.835	8.839	-0.004	20673921	13.1784	26.4
6 Acenaphthene	8.853	8.858	-0.005	49744175	17.0933	34.2
9 Anthracene	9.684	9.688	-0.004	51042404	19.2323	38.5
\$ 10 O-Terphenyl	9.820	9.823	-0.003	49005695	16.6189	33.2
\$ 11 Chloro-octadecane	10.161	10.174	-0.013	19595722	7.15303	14.3 (R)
13 Pyrene	10.468	10.468	0.000	53601757	18.7715	37.5
15 Chrysene	11.241	11.245	-0.004	54372724	19.7851	39.6
M 22 Arom C11-C22				248761909	88.9563	178
M 113 Total Surrogate Area				135624879		(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

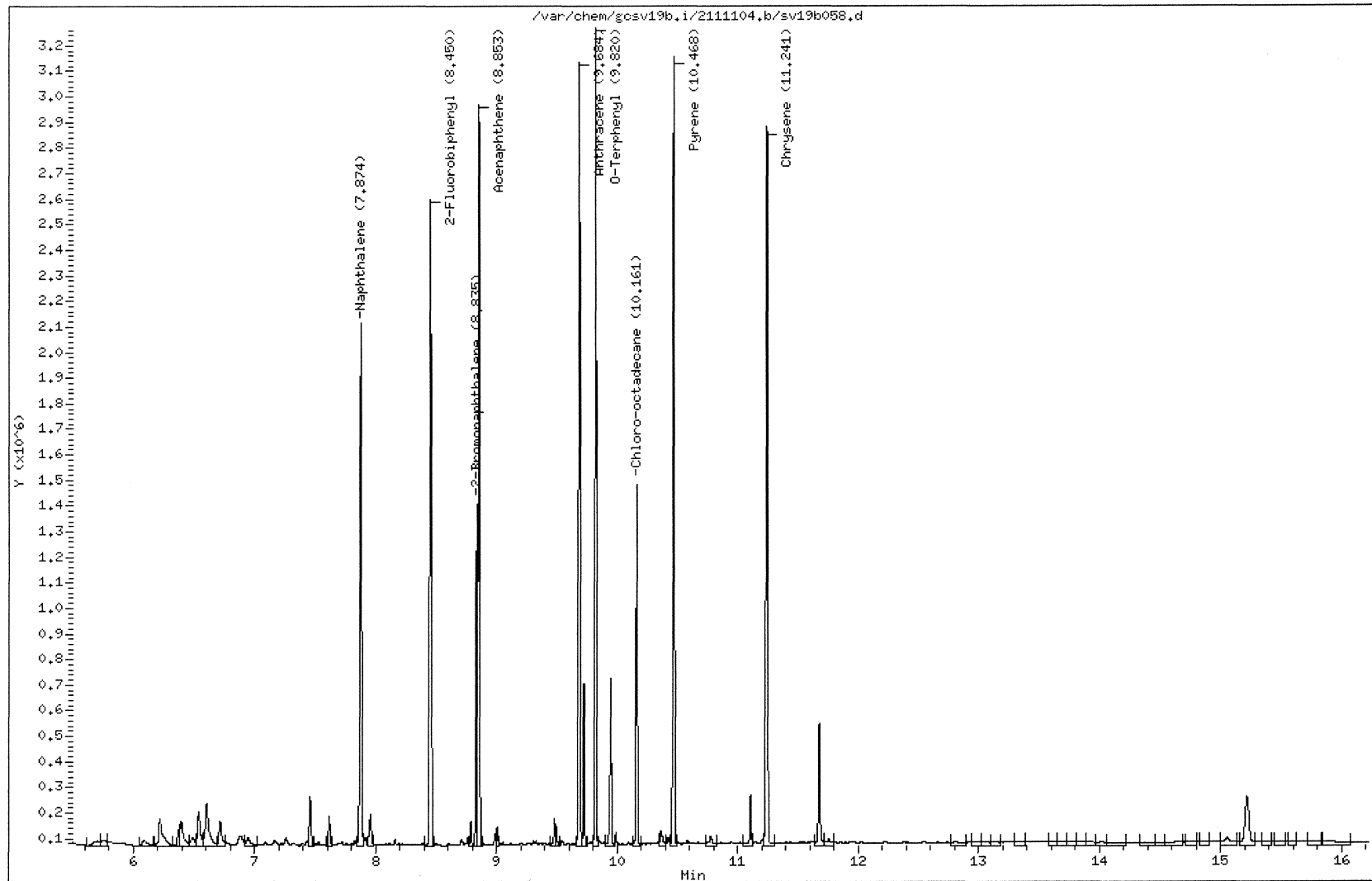
Data File: /var/chem/gosv19b.i/2111104,b/sv19b058.d
Date : 04-NOV-2011 12:54
Client ID: 1 losd
Sample Info: 1002045* 1 losd
Volume Injected (uL): 1.0
Column phase: DB-5MS-30M

Page 1

Instrument: gosv19b.i

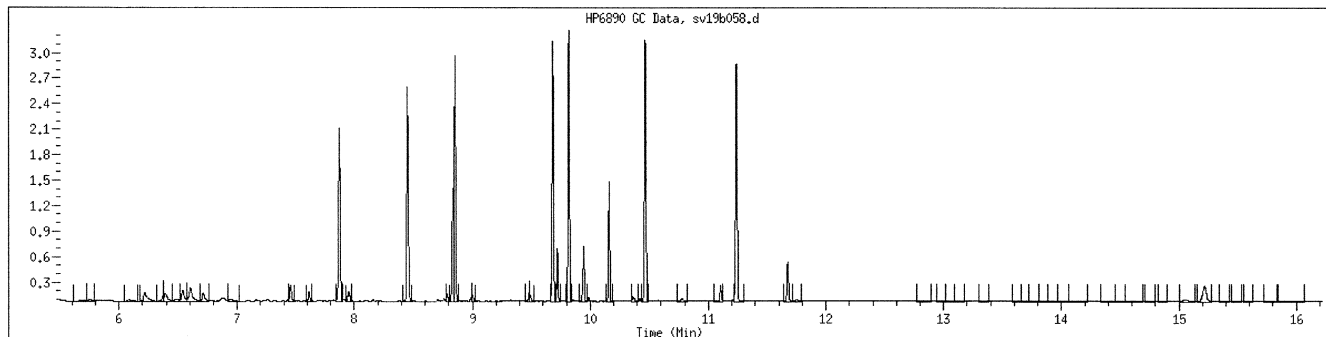
Operator: smh

Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1002045 SampleType : LCS
Injection Date: 11/04/2011 12:54 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1002045* 1 lcsd
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/AROEPhmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b059.d
 Lab Smp Id: 1002045 Client Smp ID: 1 lcsd
 Inj Date : 04-NOV-2011 13:18
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1002045*1 lcsd
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 13:36 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 59 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmaseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 C-9	6.226	6.232	-0.006	21810061	8.02035	16.0 (R)
6 C-14	8.463	8.471	-0.008	38518082	13.3830	26.8
M 11 Alip C9-C18				60328143	21.4033	42.8
12 C-19	9.726	9.774	-0.048	52318452	17.3398	34.7
13 C-20	9.949	9.957	-0.008	53612108	17.6048	35.2
\$ 15 Chlorooctadecane	10.163	10.216	-0.053	36556049	13.3437	26.7
22 C-28	11.684	11.724	-0.040	56923833	18.3863	36.8
M 24 Alip C19-C36				162854393	53.3310	107

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcsv19b,i/2111104,b/sv19b059,d

Page 1

Date : 04-NOV-2011 13:18

Client ID: 1 lcsd

Sample Info: 1002045*1 lcsd

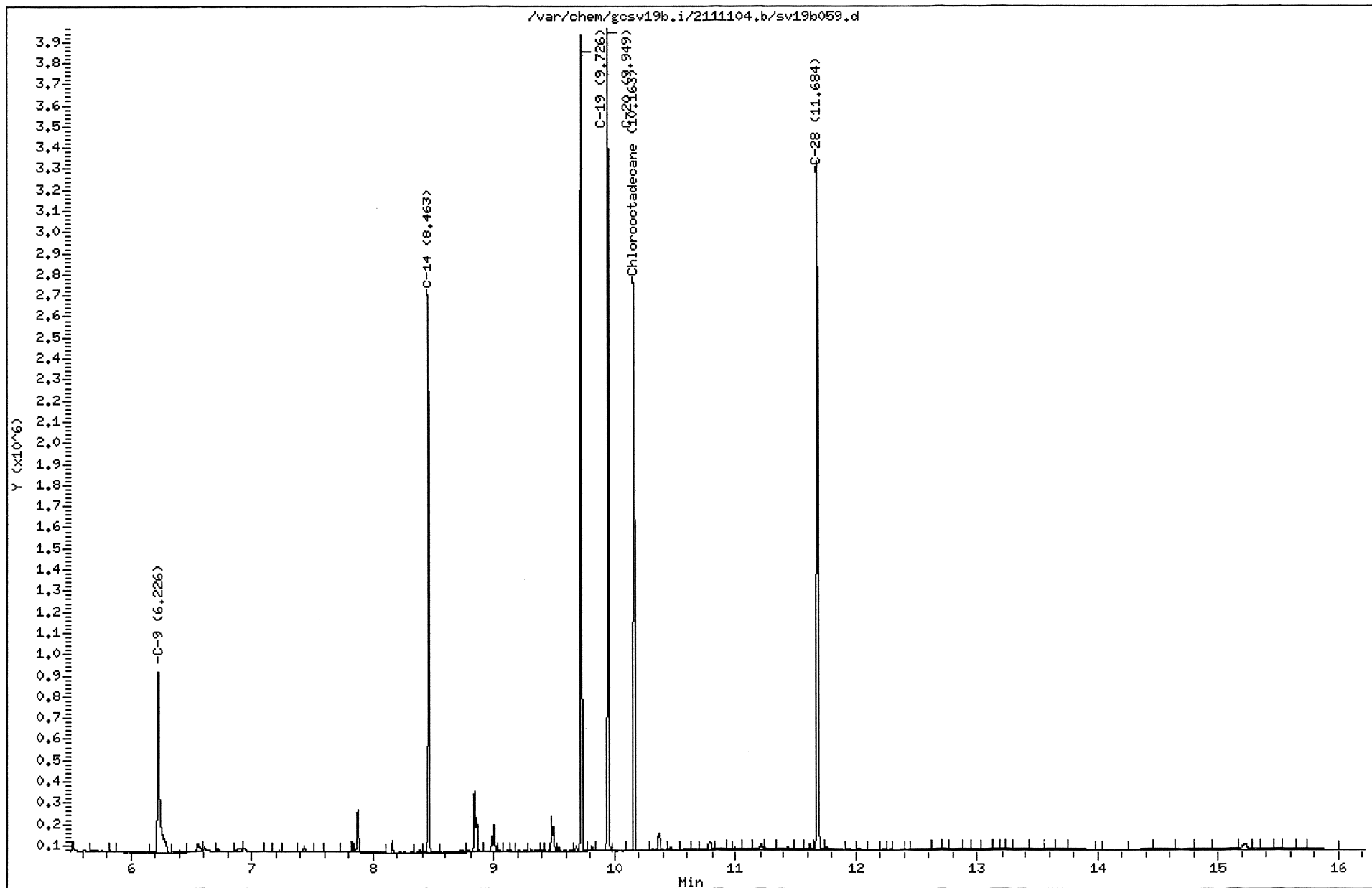
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gcsv19b,i

Operator: smh

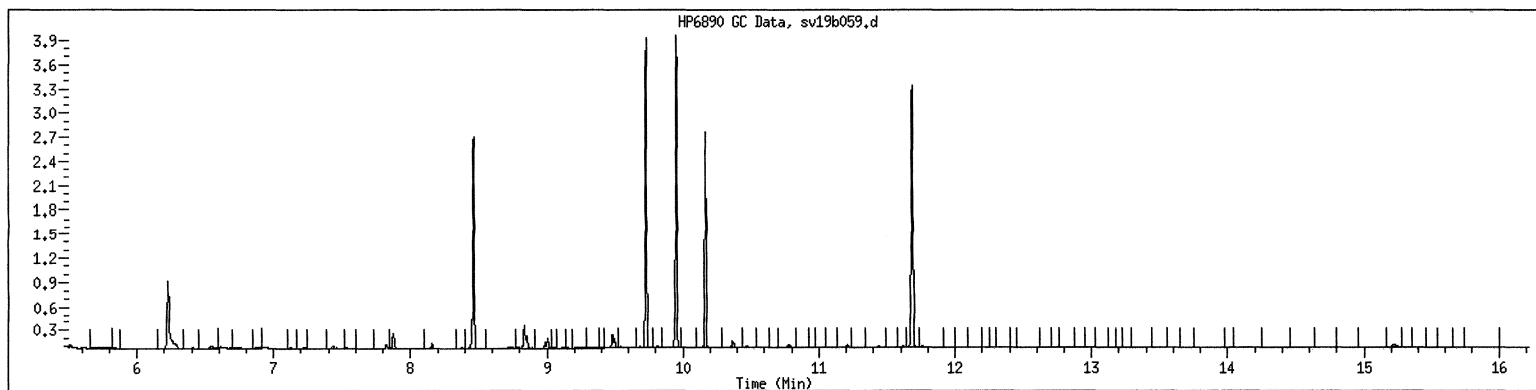
Column diameter: 0.25



211103124 139

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1002045	SampleType	: LCS
Injection Date	: 11/04/2011 13:18	Instrument	: gcsv19b.i
Operator	: smh		
Sample Info	: 1002045*1 lcsd		
Misc Info	:		
Method	: /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m		
Dilution	: 1.00		
Matrix	: WATER		
Integrator	: HP Genie	Compound Sublist:	ALmasseph



NO MANUAL INTEGRATIONS

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: ES047 MS
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211103124
 Sample wt/vol: 980 Units: mL Lab Sample ID: 21110312403
 Level: (low/med) LOW Date Collected: 10/24/11 Time: 0830
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 10/29/11
 GC Column: DB-5MS-30M ID: .25 (mm) Date Extracted: 11/02/11
 Concentrated Extract Volume: 2000 (µL) Date Analyzed: 11/04/11 Time: 1747
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: SMH
 Injection Volume: 1 (µL) Prep Method: MASS EPH
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSEPH
 Prep Batch: 468306 Analytical Batch: 468719 Sulfur Cleanup: (Y/N) N Instrument ID: GCS19B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111104/sv19b070s

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCSV-02-22	C11-C22 Aromatics	310		43.0	43.0	102
GCSV-02-24	C19-C36 Aliphatic Hydrocarbons	120		31.9	61.2	102
GCSV-02-23	C9-C18 Aliphatic Hydrocarbons	74.0	J	22.2	22.2	102

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b070.d
Lab Smp Id: 21110312403 Client Smp ID: 1
Inj Date : 04-NOV-2011 17:47
Operator : smh Inst ID: gcsv19b.i
Smp Info : 21110312403*1
Misc Info :
Comment :
Method : /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m
Meth Date : 08-Nov-2011 14:08 smh Quant Type: ESTD
Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
Als bottle: 70
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	980.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (UG/ML)	FINAL (ug/L)
1 Naphthalene	8.853	7.881	0.972	569043598	200.215	409 (AM1)
M 22 Arom C11-C22				569043598	200.215	409

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M1- Compound response manually integrated because Target system did not integrate.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b070s.d
 Lab Smp Id: 21110312403 Client Smp ID: 1
 Inj Date : 04-NOV-2011 17:47
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312403*1 ms
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m
 Meth Date : 08-Nov-2011 14:38 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 70 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	980.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 Naphthalene	7.875	7.881	-0.006	51082409	17.9731	36.7
\$ 3 2-Fluorobiphenyl	8.451	8.454	-0.003	53553206	21.7919	44.5
\$ 5 2-Bromonaphthalene	8.835	8.839	-0.004	27196175	17.3359	35.4
6 Acenaphthene	8.853	8.858	-0.005	48371523	16.6216	33.9
9 Anthracene	9.684	9.688	-0.004	41769813	15.7385	32.1
\$ 10 O-Terphenyl	9.819	9.823	-0.004	38965980	13.2142	27.0
\$ 11 Chloro-octadecane	10.160	10.174	-0.014	31113619	11.3574	23.2
13 Pyrene	10.464	10.468	-0.004	42783739	14.9830	30.6
15 Chrysene	11.235	11.245	-0.010	41961095	15.2687	31.2
M 22 Arom C11-C22				225968579	80.5850	164
M 113 Total Surrogate Area				150828980		(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation (BLOQ).

Data File: /var/chem/gcsv19b.i/2111104.b/sv19b070.d

Page 1

Date : 04-NOV-2011 17:47

Client ID: 1

Instrument: gcsv19b.i

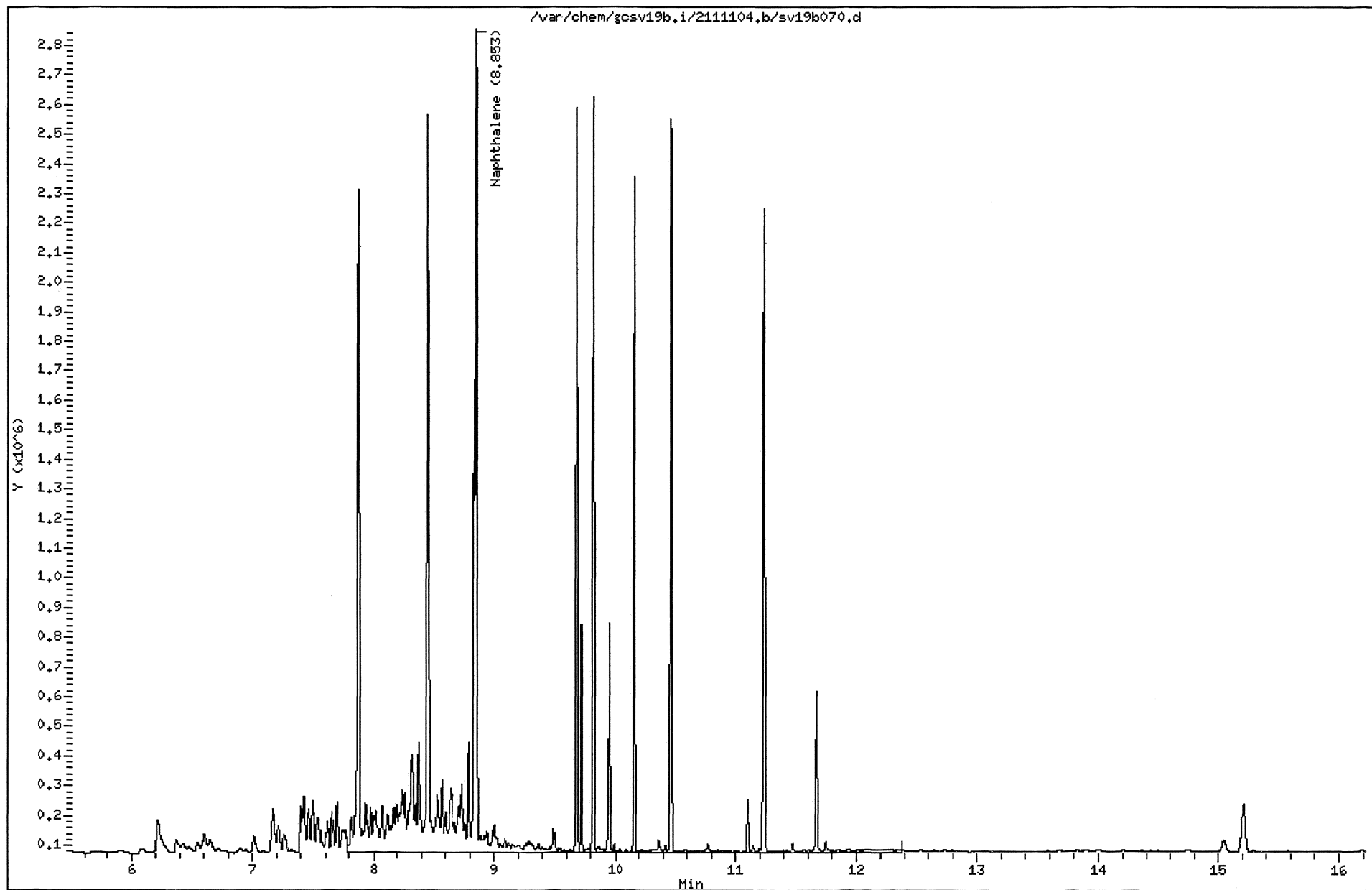
Sample Info: 21110312403*1

Volume Injected (uL): 1.0

Operator: smh

Column phase: DB-5MS-30M

Column diameter: 0.25

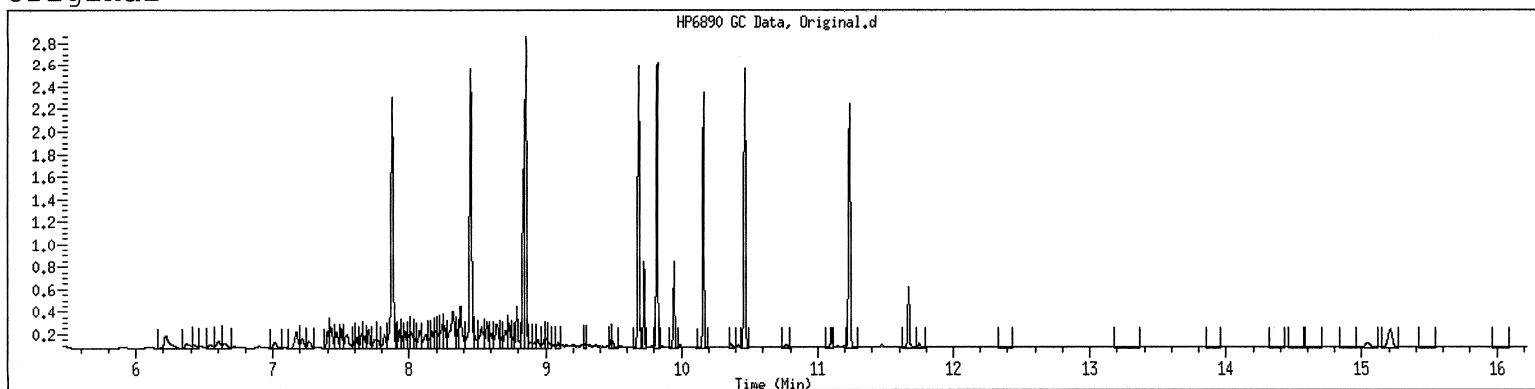


211103124 145

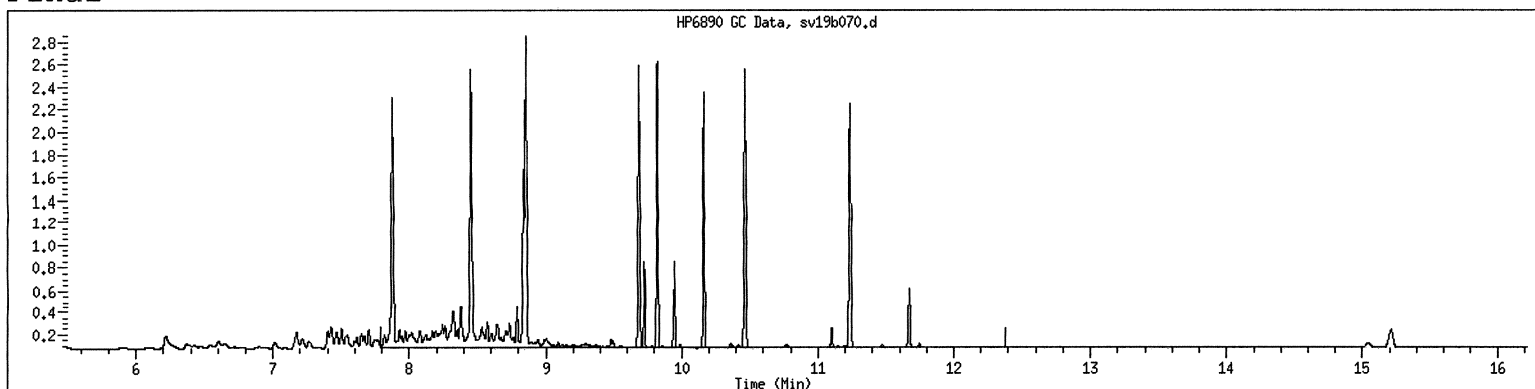
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312403 SampleType : SAMPLE
Injection Date: 11/04/2011 17:47 Instrument : gcsv19b.i
Operator : smh
Sample Info : 21110312403*1
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b071.d
 Lab Smp Id: 21110312403 Client Smp ID: 1
 Inj Date : 04-NOV-2011 18:12
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312403*1 ms
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 13:57 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 71
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmaseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	980.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
10 C-18	8.463	9.504	-1.041	103155664	34.1429	69.7 (M1)
M 11 Alip C9-C18				103155664	34.1429	69.7
114 C-36	9.946	15.145	-5.199	196172680	67.0530	137 (AM1)
M 24 Alip C19-C36				196172680	67.0530	137

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M1- Compound response manually integrated because Target system did not integrate.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b071s.d
 Lab Smp Id: 21110312403 Client Smp ID: 1
 Inj Date : 04-NOV-2011 18:12
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312403*1 ms
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 13:57 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 71 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	980.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (UG/ML)	FINAL (ug/L)
1 C-9	6.228	6.232	-0.004	17636810	6.48569	13.2 (R)
6 C-14	8.463	8.471	-0.008	31294950	10.8733	22.2
M 11 Alip C9-C18				48931760	17.3590	35.4
12 C-19	9.724	9.774	-0.050	43646012	14.4655	29.5
13 C-20	9.946	9.957	-0.011	47976180	15.7541	32.2
\$ 15 Chlorooctadecane	10.159	10.217	-0.058	15508787	5.66101	11.6 (R)
22 C-28	11.676	11.725	-0.049	49801516	16.0858	32.8
M 24 Alip C19-C36				141423708	46.3055	94.5

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gosv19b.i/2111104.b/sv19b071.d

Page 1

Date : 04-NOV-2011 18:12

Client ID: 1

Instrument: gosv19b.i

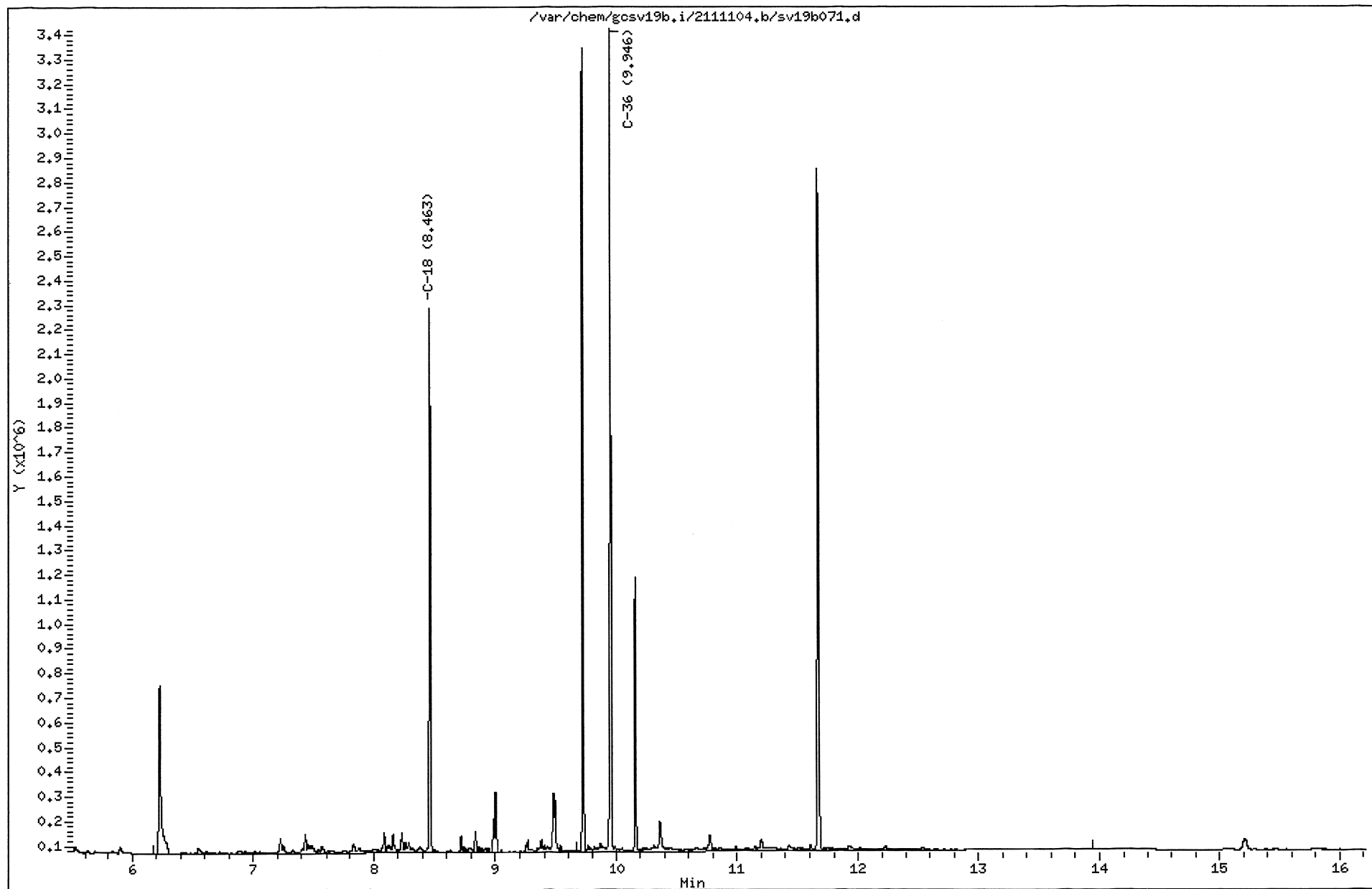
Sample Info: 21110312403*1.ms

Volume Injected (uL): 1.0

Operator: smh

Column phase: DB-5MS-30M

Column diameter: 0.25

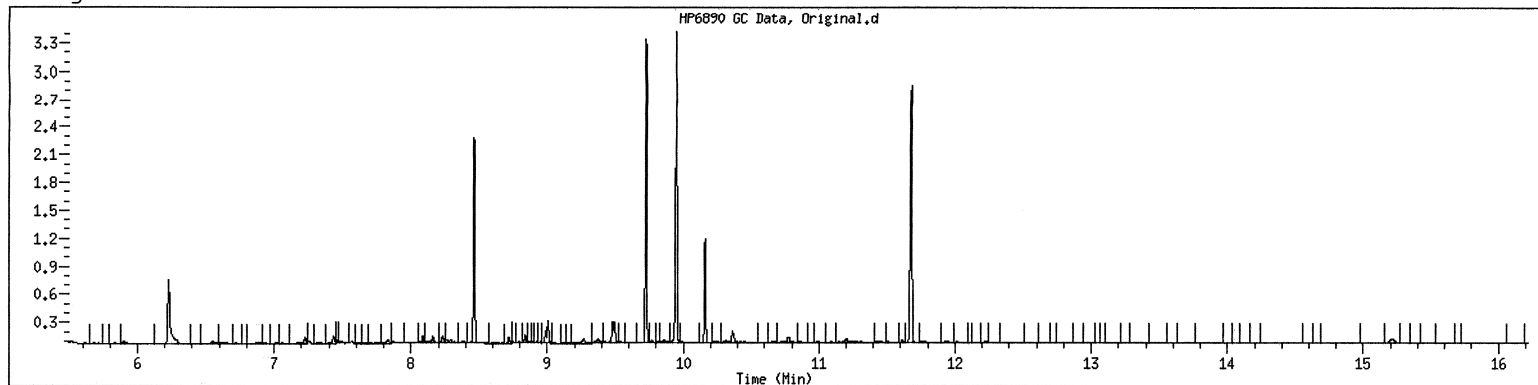


211103124 149

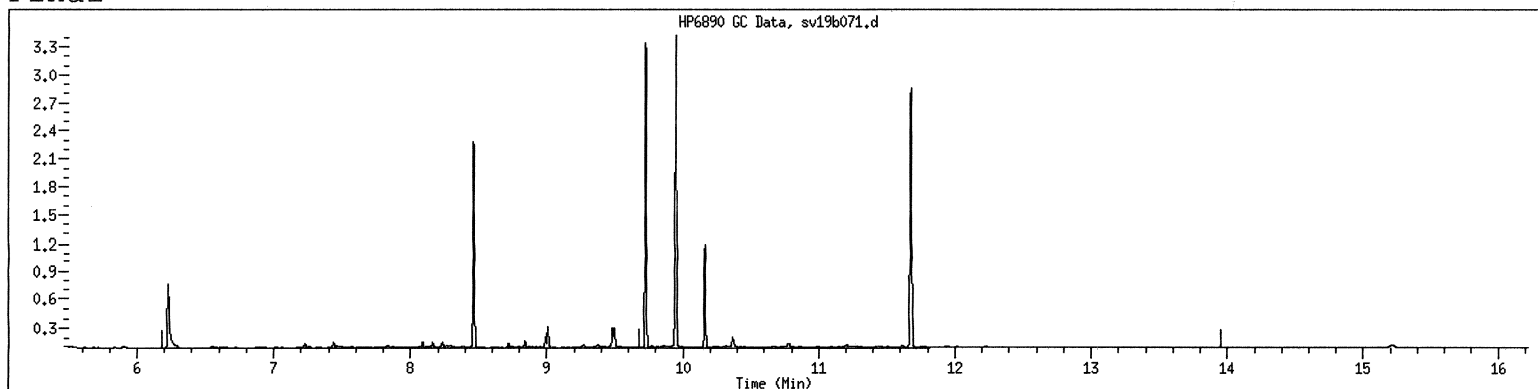
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312403 SampleType : SAMPLE
Injection Date: 11/04/2011 18:12 Instrument : gcsv19b.i
Operator : smh
Sample Info : 21110312403*1 ms
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph

Original



Final



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: ES047 MSD
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211103124
 Sample wt/vol: 980 Units: mL Lab Sample ID: 21110312404
 Level: (low/med) LOW Date Collected: 10/24/11 Time: 0830
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 10/29/11
 GC Column: DB-5MS-30M ID: .25 (mm) Date Extracted: 11/02/11
 Concentrated Extract Volume: 2000 (µL) Date Analyzed: 11/04/11 Time: 1836
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: SMH
 Injection Volume: 1 (µL) Prep Method: MASS EPH
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSEPH
 Prep Batch: 468306 Analytical Batch: 468719 Sulfur Cleanup: (Y/N) N Instrument ID: GCS19B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111104/sv19b072s

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCSV-02-22	C11-C22 Aromatics	302		43.0	43.0	102
GCSV-02-24	C19-C36 Aliphatic Hydrocarbons	121		31.9	61.2	102
GCSV-02-23	C9-C18 Aliphatic Hydrocarbons	57.0	J	22.2	22.2	102

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b072.d
 Lab Smp Id: 21110312404 Client Smp ID: 1
 Inj Date : 04-NOV-2011 18:36
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312404*1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/AROEPMass.m
 Meth Date : 08-Nov-2011 14:08 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 72
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	980.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 Naphthalene	9.824	7.881	1.943	552418609	194.366	397 (M1)
M 22 Arom C11-C22				552418609	194.366	397

QC Flag Legend

M1- Compound response manually integrated because Target system did not integrate.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b072s.d
 Lab Smp Id: 21110312404 Client Smp ID: 1
 Inj Date : 04-NOV-2011 18:36
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312404*1 msd
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/AROEPhmass.m
 Meth Date : 08-Nov-2011 14:38 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 72 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	980.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 Naphthalene	7.876	7.881	-0.005	46829053	16.4766	33.6
\$ 3 2-Fluorobiphenyl	8.451	8.454	-0.003	51697210	21.0366	42.9
\$ 5 2-Bromonaphthalene	8.836	8.839	-0.003	25223534	16.0785	32.8
6 Acenaphthene	8.854	8.858	-0.004	41177384	14.1496	28.9
9 Anthracene	9.687	9.688	-0.001	39128993	14.7434	30.1
\$ 10 O-Terphenyl	9.824	9.823	0.001	37333043	12.6604	25.8
\$ 11 Chloro-octadecane	10.169	10.174	-0.005	30359152	11.0820	22.6
13 Pyrene	10.476	10.468	0.008	41370988	14.4883	29.6
15 Chrysene	11.253	11.245	0.008	41665848	15.1613	30.9
M 22 Arom C11-C22				210172266	75.0191	153
M 113 Total Surrogate Area				144612939		(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/gosv19b.i/2111104.b/sv19b072.d

Page 1

Date : 04-NOV-2011 18:36

Client ID: 1

Instrument: gosv19b.i

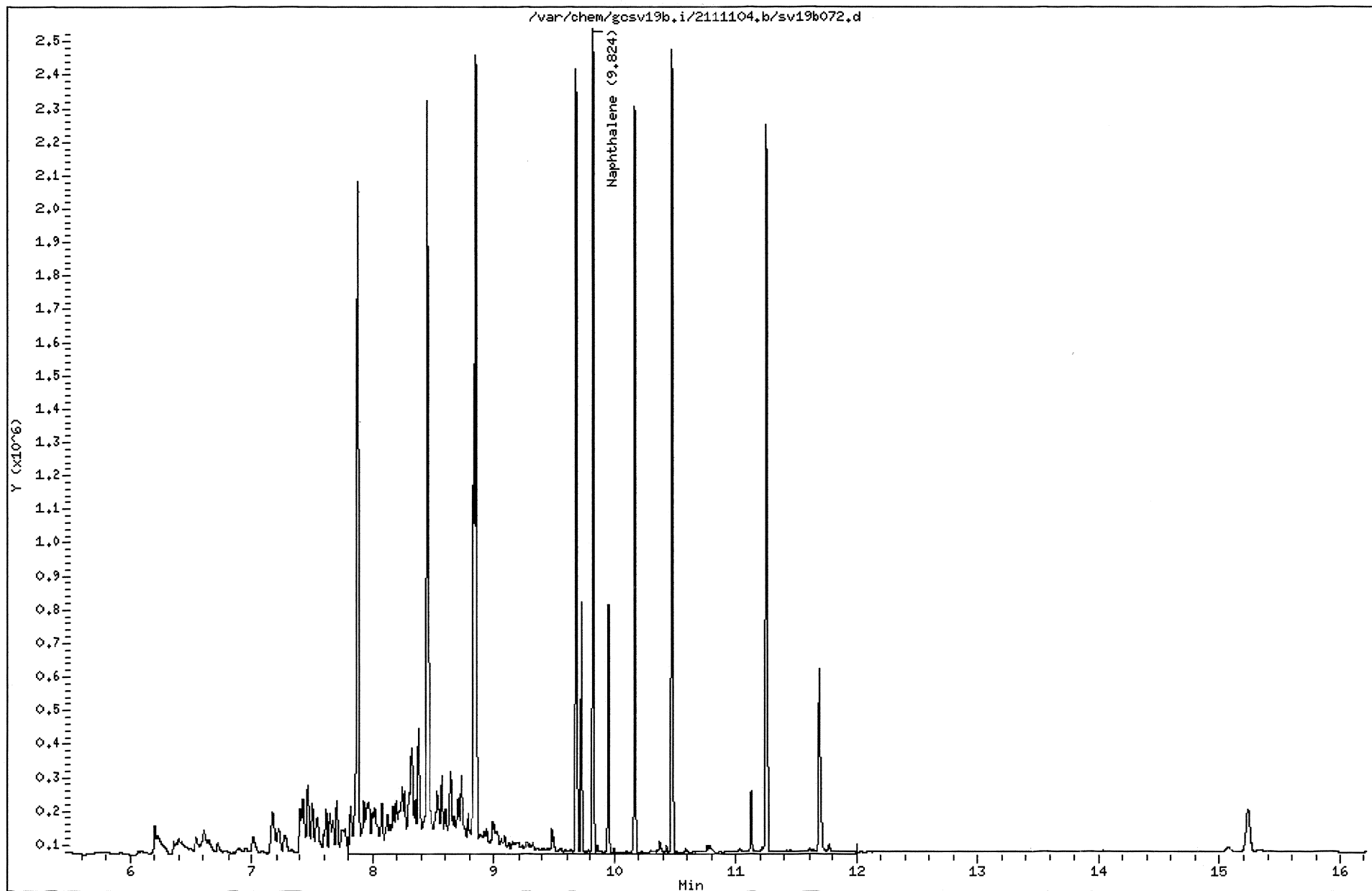
Sample Info: 21110312404*1

Volume Injected (uL): 1.0

Operator: smh

Column phase: DB-SMS-30M

Column diameter: 0.25

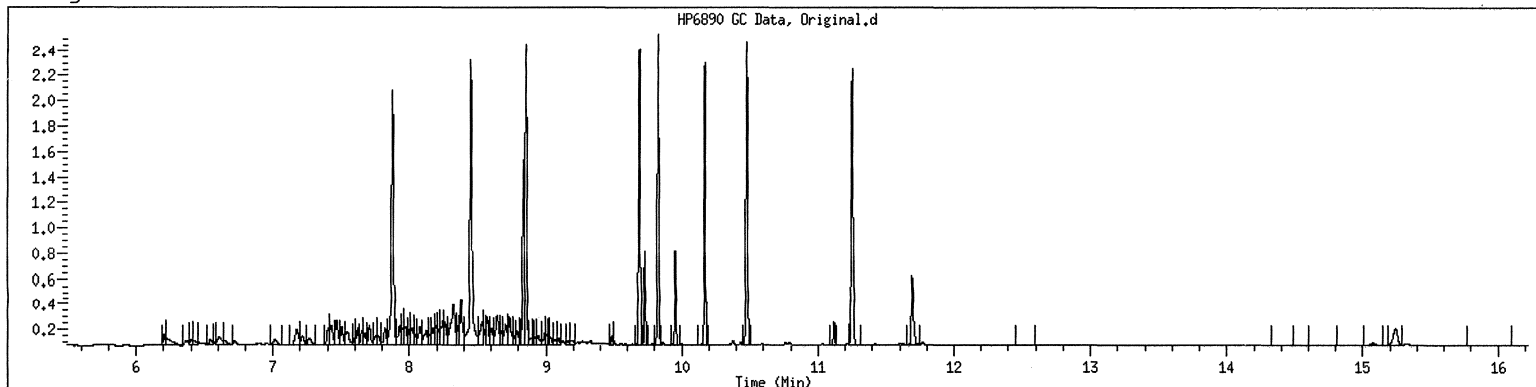


211103124 155

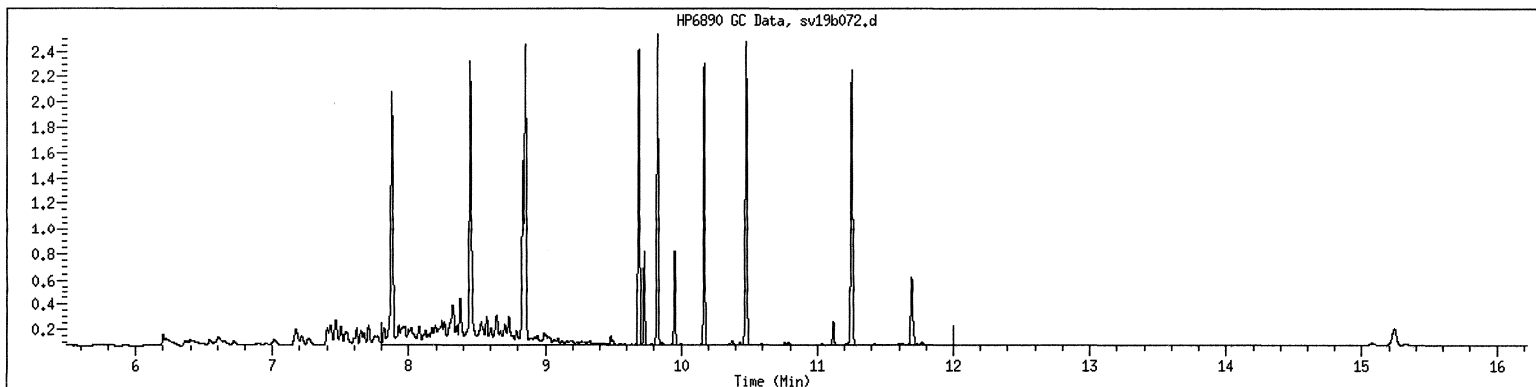
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312404 SampleType : SAMPLE
Injection Date: 11/04/2011 18:36 Instrument : gcsv19b.i
Operator : smh
Sample Info : 21110312404*1
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b073.d
 Lab Smp Id: 21110312404 Client Smp ID: 1
 Inj Date : 04-NOV-2011 19:01
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312404*1 msd
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Meth Date : 07-Nov-2011 11:20 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 73
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmaseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	980.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
10 C-18	8.463	9.504	-1.041	77733976	25.7287	52.5 (M1)
M 11 Alip C9-C18				77733976	27.2074	55.5
114 C-36	9.949	15.145	-5.196	186054913	63.5947	130 (AM1)
M 24 Alip C19-C36				186054913	60.7932	124

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M1- Compound response manually integrated because Target system did not integrate.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b073s.d
 Lab Smp Id: 21110312404 Client Smp ID: 1
 Inj Date : 04-NOV-2011 19:01
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312404*1 msd
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Meth Date : 07-Nov-2011 11:20 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 73 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	980.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 C-9	6.226	6.232	-0.006	16525582	6.07706	12.4 (R)
6 C-14	8.463	8.471	-0.008	27020278	9.38812	19.2 (R)
M 11 Alip C9-C18				43545860	15.2413	31.1
12 C-19	9.726	9.774	-0.048	39483552	13.0860	26.7
13 C-20	9.949	9.957	-0.008	43023794	14.1279	28.8
\$ 15 Chlorooctadecane	10.163	10.217	-0.054	16128174	5.88710	12.0 (R)
22 C-28	11.683	11.725	-0.042	45999575	14.8578	30.3
M 24 Alip C19-C36				128506921	41.9895	85.7

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gosv19b.i/2111104.b/sv19b073.d

Page 1

Date : 04-NOV-2011 19:01

Client ID: 1

Instrument: gosv19b.i

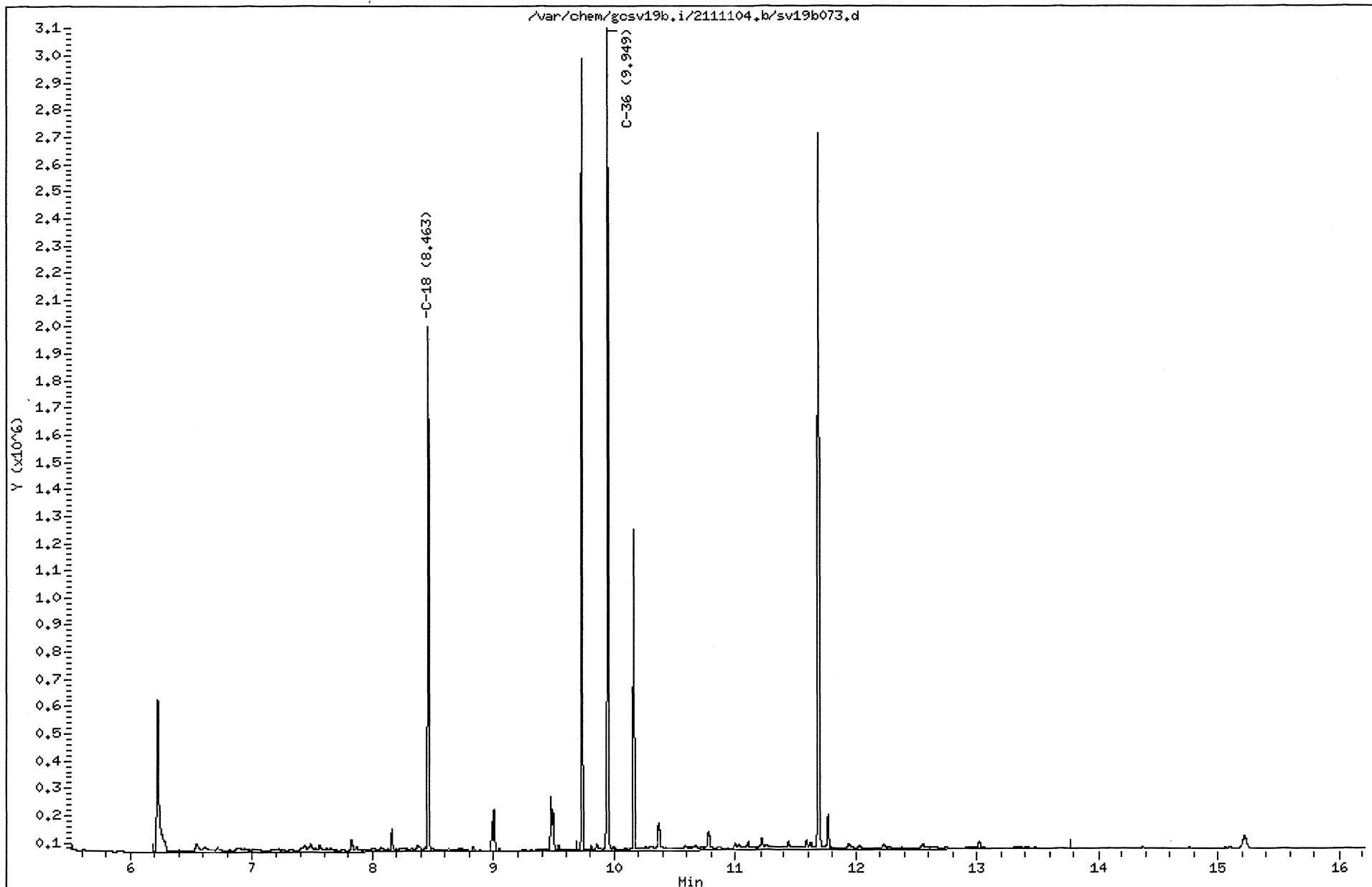
Sample Info: 21110312404*1.msd

Volume Injected (uL): 1.0

Operator: smh

Column phase: DB-5MS-30M

Column diameter: 0.25

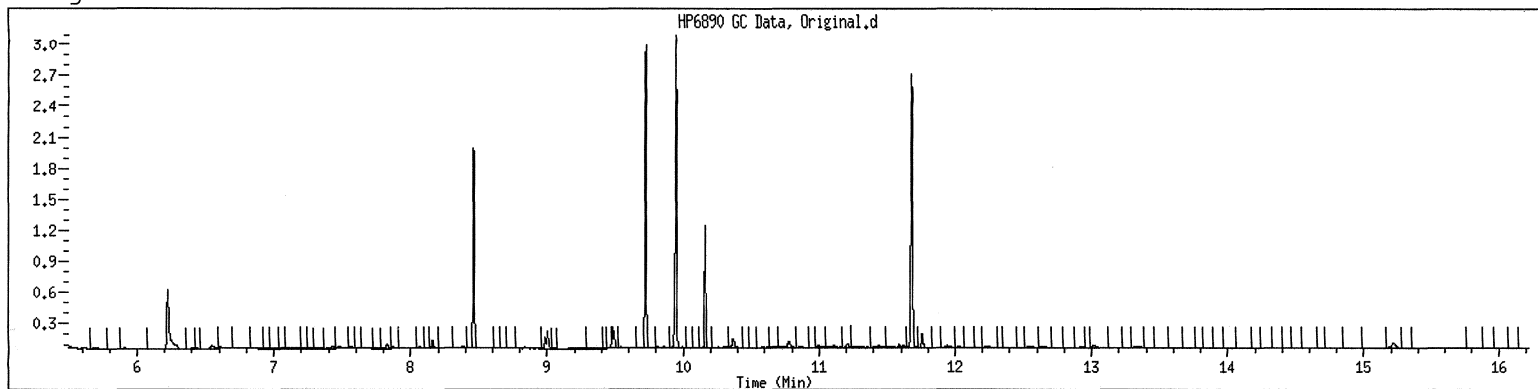


211103124 159

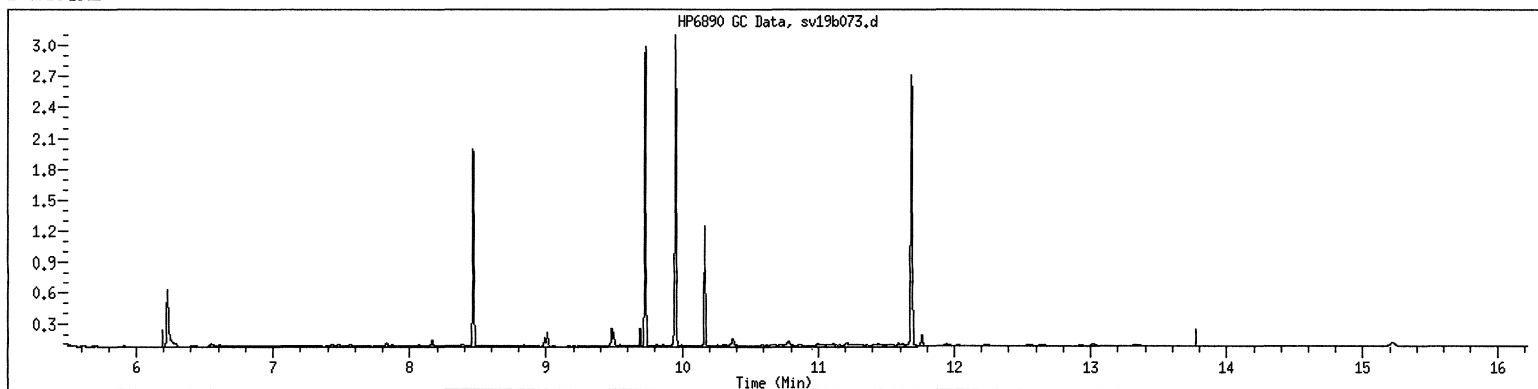
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312404 SampleType : SAMPLE
Injection Date: 11/04/2011 19:01 Instrument : gcsv19b.i
Operator : smh
Sample Info : 21110312404*1 msd
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph

Original



Final



✓ BT

FRACTIONATION SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME: 11/2/11		Start: 0800	End: 11/3/11	BATCH NO: 468306	EPH				
MATRIX:		WATER <input checked="" type="checkbox"/>	SOIL <input type="checkbox"/>	OTHER <input type="checkbox"/>	LEVEL:		LOW <input checked="" type="checkbox"/>	MEDIUM <input type="checkbox"/>	
CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	Init pH	ALIP	AROM	SAMPLE TYPE	METHOD
1	QC ACCOUNT MB for HBN 468306 [EXTO/30070]	1002043	1000	20	7	10.0	15.0	MB	SHAKER
2	QC ACCOUNT LCS for HBN 468306 [EXTO/30070]	1002044	1000	20	7	10.0	15.0	LCS	NA
3	QC ACCOUNT LCSD for HBN 468306 [EXTO/30070]	1002045	1000	20	7	10.0	15.0	LCSD	SEPARATORY FUNNEL/3510
4	0080 UST 1011 - EPH PE	21110202113	990	20	7.2	10.0	15.0	SAMPLE	SOXHLET/3540
5	9000 ES046	21110312401	1000	2.0	7.2	10.0	15.0	SAMPLE	
6	9000 ES047	21110312402	990	2.0	7.2	10.0	15.0	SAMPLE	NA
7	9000 ES047 MS	21110312403	980	2.0	7.2	10.0	15.0	MS	
8	9000 ES047 MSD	21110312404	980	2.0	7.2	10.0	15.0	MSD	
9	9000 ES049	21110312405	960	2.0	7.2	10.0	15.0	SAMPLE	
10	9000 ES050	21110312406	990	2.0	7.2	10.0	15.0	SAMPLE	
11	9000 ES051	21110312407	970	2.0	7.2	10.0	15.0	SAMPLE	
12	9000 ES053	21110312408	980	2.0	7.2	10.0	15.0	SAMPLE	
13	9000 ES053 MS	21110312409	990	2.0	7.2	10.0	15.0	MS	
14	9000 ES053 MSD	21110312410	980	2.0	7.2	10.0	15.0	MSD	
15	9000 ES055	21110312411	990	2.0	7.2	10.0	15.0	SAMPLE	
16	9000 ES056	21110312412	990	2.0	7.2	10.0	15.0	SAMPLE	
17									
18									
19									
20									
21									
22									
23									MeCL2 Lot
24									No: 114853
25									HEXANE Lot
26									No: 100351
27									PENTANE Lot
28									No: NA

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

BALANCE ID: NA

TEMP: 10.1

SURROGATE ID	<u>507-29-5</u>	SPIKE ID	<u>507-29-4</u>	<u>Fractionation</u>	<u>507-29-2</u>	TECHNICIAN	DATE
VOLUME	<u>1.0 ml</u>	VOLUME	<u>1.0 ml</u>		<u>1.0 ml</u>	<u>Erica Beggs</u>	<u>11/2/11</u>
CONCENTRATION	<u>100 ug/ml</u>	CONCENTRATION	<u>500 ug/ml</u>		<u>400 ug/ml</u>	<u>MC</u>	<u>11/2</u>
SPIKE WITNESS	<u>BT</u>					<u>[Signature]</u>	<u>11/3/11</u>

Revision 3, 10/04/2010

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 11/03/2011

Instrument: gcsv19b.i

Method File: /var/chem/gcsv19b.i/2111102.b/AROEPHmass.m

Batch: /var/chem/gcsv19b.i/2111102.b

Column-Detector: DB-5MS-30M

Sample ID	Standard ID	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
dcm lot #1118		sv19b051.d	1000.00 ml	02-NOV-2011 15:31	1.000	smh	51	all
1201		sv19b052.d	1000.00 ml	02-NOV-2011 15:55	1.000	smh	52	all
1201		sv19b0521a.d	1000.00 ml	02-NOV-2011 15:55	1.000	smh	52	all
1202		sv19b053.d	1000.00 ml	02-NOV-2011 16:19	1.000	smh	53	all
1202		sv19b0531a.d	1000.00 ml	02-NOV-2011 16:19	1.000	smh	53	all
1203		sv19b054.d	1000.00 ml	02-NOV-2011 16:42	1.000	smh	54	all
1203		sv19b0541a.d	1000.00 ml	02-NOV-2011 16:42	1.000	smh	54	all
1204		sv19b055.d	1000.00 ml	02-NOV-2011 17:07	1.000	smh	55	all
1204		sv19b0551a.d	1000.00 ml	02-NOV-2011 17:07	1.000	smh	55	all
1205		sv19b056.d	1000.00 ml	02-NOV-2011 17:30	1.000	smh	56	all
1205		sv19b0561a.d	1000.00 ml	02-NOV-2011 17:30	1.000	smh	56	all
1600		sv19b057.d	1.00 ml	02-NOV-2011 17:55	1.000	smh	57	all
1600		sv19b0571a.d	1.00 ml	02-NOV-2011 17:55	1.000	smh	57	all
1201		sv19b058.d	1000.00 ml	02-NOV-2011 18:19	1.000	smh	58	ALmasseph
1202		sv19b059.d	1000.00 ml	02-NOV-2011 18:42	1.000	smh	59	ALmasseph
1203		sv19b060.d	1000.00 ml	02-NOV-2011 19:06	1.000	smh	60	ALmasseph
1204		sv19b061.d	1000.00 ml	02-NOV-2011 19:31	1.000	smh	61	ALmasseph
1205		sv19b062.d	1000.00 ml	02-NOV-2011 19:54	1.000	smh	62	ALmasseph
1600		sv19b063.d	1000.00 ml	02-NOV-2011 20:18	1.000	smh	63	all-new

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 11/04/2011

Instrument: gcsv19b.i

Method File: /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m

Batch: /var/chem/gcsv19b.i/2111103.b

Column-Detector: DB-5MS-30M

Sample ID	Standard ID	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
dcm lot #1118		sv19b051.d	1000.00 ml	03-NOV-2011 11:07	1.000	smh	51	ALmasseph
1201		sv19b052.d	1000.00 ml	03-NOV-2011 12:55	1.000	smh	52	ALmasseph
1201		sv19b0521a.d	1000.00 ml	03-NOV-2011 12:55	1.000	smh	52	AlipLA
1201		sv19b052s.d	1000.00 ml	03-NOV-2011 12:55	1.000	smh	52	chloro
1202		sv19b053.d	1000.00 ml	03-NOV-2011 13:18	1.000	smh	53	ALmasseph
1202		sv19b0531a.d	1000.00 ml	03-NOV-2011 13:18	1.000	smh	53	AlipLA
1202		sv19b053s.d	1000.00 ml	03-NOV-2011 13:18	1.000	smh	53	chloro
1203		sv19b054.d	1000.00 ml	03-NOV-2011 13:42	1.000	smh	54	ALmasseph
1203		sv19b0541a.d	1000.00 ml	03-NOV-2011 13:42	1.000	smh	54	AlipLA
1203		sv19b054s.d	1000.00 ml	03-NOV-2011 13:42	1.000	smh	54	chloro
1204		sv19b055.d	1000.00 ml	03-NOV-2011 14:06	1.000	smh	55	ALmasseph
1204		sv19b0551a.d	1000.00 ml	03-NOV-2011 14:06	1.000	smh	55	AlipLA
1204		sv19b055s.d	1000.00 ml	03-NOV-2011 14:06	1.000	smh	55	chloro
1205		sv19b056.d	1000.00 ml	03-NOV-2011 14:30	1.000	smh	56	ALmasseph
1205		sv19b0561a.d	1000.00 ml	03-NOV-2011 14:30	1.000	smh	56	AlipLA
1205		sv19b056s.d	1000.00 ml	03-NOV-2011 14:30	1.000	smh	56	chloro
1600		sv19b057.d	1.00 ml	03-NOV-2011 14:54	1.000	smh	57	ALmasseph
1600		sv19b0571a.d	1.00 ml	03-NOV-2011 14:54	1.000	smh	57	ALmasseph

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 11/08/2011

Instrument: gcsv19b.i

Method File: /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m

Batch: /var/chem/gcsv19b.i/2111104.b

Column-Detector: DB-5MS-30M

Sample ID	Standard ID	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
dcm lot #1118		sv19b051.d	1000.00 ml	04-NOV-2011 08:24	1.000	smh	51	all
1400		sv19b052.d	1000.00 ml	04-NOV-2011 08:48	1.000	smh	52	all
1400		sv19b053.d	1000.00 ml	04-NOV-2011 09:12	1.000	smh	53	ALmasseph
1002043		sv19b054.d	1000.00 ml	04-NOV-2011 11:18	1.000	smh	54	all
1002043		sv19b055.d	1000.00 ml	04-NOV-2011 11:42	1.000	smh	55	ALmasseph
1002043		sv19b055s.d	1000.00 ml	04-NOV-2011 11:42	1.000	smh	55	Chloro
1002044		sv19b056.d	1000.00 ml	04-NOV-2011 12:06	1.000	smh	56	all
1002044		sv19b057.d	1000.00 ml	04-NOV-2011 12:30	1.000	smh	57	ALmasseph
1002045		sv19b058.d	1000.00 ml	04-NOV-2011 12:54	1.000	smh	58	all
1002045		sv19b059.d	1000.00 ml	04-NOV-2011 13:18	1.000	smh	59	ALmasseph
21110202113		sv19b060.d	990.00 ml	04-NOV-2011 13:43	1.000	smh	60	all
21110202113		sv19b061.d	990.00 ml	04-NOV-2011 14:07	1.000	smh	61	ALmasseph
21110312401		sv19b062.d	1000.00 ml	04-NOV-2011 14:31	1.000	smh	62	all
21110312401		sv19b062s.d	1000.00 ml	04-NOV-2011 14:31	1.000	smh	62	surr
21110312401		sv19b063.d	1000.00 ml	04-NOV-2011 14:56	1.000	smh	63	ALmasseph
21110312401		sv19b063s.d	1000.00 ml	04-NOV-2011 14:56	1.000	smh	63	Chloro
1400		sv19b064.d	1000.00 ml	04-NOV-2011 15:20	1.000	smh	64	all
1400		sv19b065.d	1000.00 ml	04-NOV-2011 15:45	1.000	smh	65	ALmasseph
21110312402		sv19b068.d	990.00 ml	04-NOV-2011 16:58	1.000	smh	68	all
21110312402		sv19b068s.d	990.00 ml	04-NOV-2011 16:58	1.000	smh	68	surr
21110312402		sv19b069.d	990.00 ml	04-NOV-2011 17:23	1.000	smh	69	ALmasseph
21110312402		sv19b069s.d	990.00 ml	04-NOV-2011 17:23	1.000	smh	69	Chloro
21110312403		sv19b070.d	980.00 ml	04-NOV-2011 17:47	1.000	smh	70	all
21110312403		sv19b070s.d	980.00 ml	04-NOV-2011 17:47	1.000	smh	70	all
21110312403		sv19b071.d	980.00 ml	04-NOV-2011 18:12	1.000	smh	71	ALmasseph
21110312403		sv19b071s.d	980.00 ml	04-NOV-2011 18:12	1.000	smh	71	ALmasseph
21110312404		sv19b072.d	980.00 ml	04-NOV-2011 18:36	1.000	smh	72	all
21110312404		sv19b072s.d	980.00 ml	04-NOV-2011 18:36	1.000	smh	72	all
21110312404		sv19b073.d	980.00 ml	04-NOV-2011 19:01	1.000	smh	73	ALmasseph
21110312404		sv19b073s.d	980.00 ml	04-NOV-2011 19:01	1.000	smh	73	ALmasseph
21110312405		sv19b074.d	960.00 ml	04-NOV-2011 19:25	1.000	smh	74	all
21110312405		sv19b075.d	960.00 ml	04-NOV-2011 19:49	1.000	smh	75	ALmasseph
21110312405		sv19b075s.d	960.00 ml	04-NOV-2011 19:49	1.000	smh	75	Chloro
21110312406		sv19b076.d	990.00 ml	04-NOV-2011 20:13	1.000	smh	76	all
21110312406		sv19b077.d	990.00 ml	04-NOV-2011 20:38	1.000	smh	77	ALmasseph
21110312406		sv19b077s.d	990.00 ml	04-NOV-2011 20:38	1.000	smh	77	Chloro

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 11/08/2011

Instrument: gcsv19b.i

Method File: /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m

Batch: /var/chem/gcsv19b.i/2111104.b

Column-Detector: DB-5MS-30M

Sample ID	Standard ID	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
1400		sv19b078.d	1000.00 ml	04-NOV-2011 21:02	1.000	smh	78	all
1400		sv19b079.d	1000.00 ml	04-NOV-2011 21:26	1.000	smh	79	ALmasseph
21110312407		sv19b082.d	970.00 ml	04-NOV-2011 22:38	1.000	smh	82	all
21110312407		sv19b083.d	970.00 ml	04-NOV-2011 23:02	1.000	smh	83	ALmasseph
21110312407		sv19b083s.d	970.00 ml	04-NOV-2011 23:02	1.000	smh	83	Chloro
21110312408		sv19b084.d	980.00 ml	04-NOV-2011 23:26	1.000	smh	84	all
21110312408		sv19b085.d	980.00 ml	04-NOV-2011 23:50	1.000	smh	85	ALmasseph
21110312408		sv19b085s.d	980.00 ml	04-NOV-2011 23:50	1.000	smh	85	Chloro
21110312409		sv19b086.d	990.00 ml	05-NOV-2011 00:14	1.000	smh	86	all
21110312409		sv19b087.d	990.00 ml	05-NOV-2011 00:38	1.000	smh	87	ALmasseph
21110312409		sv19b087s.d	990.00 ml	05-NOV-2011 00:38	1.000	smh	87	Chloro
21110312410		sv19b088.d	980.00 ml	05-NOV-2011 01:02	1.000	smh	88	all
21110312410		sv19b089.d	980.00 ml	05-NOV-2011 01:26	1.000	smh	89	ALmasseph
21110312410		sv19b089s.d	980.00 ml	05-NOV-2011 01:26	1.000	smh	89	Chloro
21110312411		sv19b090.d	990.00 ml	05-NOV-2011 01:50	1.000	smh	90	all
21110312411		sv19b091.d	990.00 ml	05-NOV-2011 02:14	1.000	smh	91	ALmasseph
21110312411		sv19b091s.d	990.00 ml	05-NOV-2011 02:14	1.000	smh	91	Chloro
1400		sv19b092.d	1000.00 ml	05-NOV-2011 02:38	1.000	smh	92	all
1400		sv19b093.d	1000.00 ml	05-NOV-2011 03:02	1.000	smh	93	ALmasseph
1400		sv19b094.d	1000.00 ml	05-NOV-2011 03:26	1.000	smh	92	all
1400		sv19b095.d	1000.00 ml	05-NOV-2011 03:49	1.000	smh	93	AlipLA
21110312412		sv19b096.d	990.00 ml	05-NOV-2011 04:13	1.000	smh	96	all
21110312412		sv19b097.d	990.00 ml	05-NOV-2011 04:37	1.000	smh	97	ALmasseph
21110312412		sv19b097s.d	990.00 ml	05-NOV-2011 04:37	1.000	smh	97	Chloro
1002322		sv19b098.d	1000.00 ml	05-NOV-2011 05:00	1.000	smh	98	all
1002322		sv19b099.d	1000.00 ml	05-NOV-2011 05:24	1.000	smh	99	AlipLA
1002322		sv19b099s.d	1000.00 ml	05-NOV-2011 05:24	1.000	smh	99	chloro
1002323		sv19b101.d	1000.00 ml	05-NOV-2011 05:48	1.000	smh	1	all
1002323		sv19b102.d	1000.00 ml	05-NOV-2011 06:11	1.000	smh	2	AlipLA
1002324		sv19b103.d	1000.00 ml	05-NOV-2011 06:35	1.000	smh	3	all
1002324		sv19b104.d	1000.00 ml	05-NOV-2011 06:58	1.000	smh	4	AlipLA
21110250603		sv19b105.d	960.00 ml	05-NOV-2011 07:22	1.000	smh	5	all
21110250603		sv19b105s.d	960.00 ml	05-NOV-2011 07:22	1.000	smh	5	surr
21110250603		sv19b106.d	960.00 ml	05-NOV-2011 07:45	1.000	smh	6	AlipLA
21110250603		sv19b106s.d	960.00 ml	05-NOV-2011 07:45	1.000	smh	6	Chloro
1400		sv19b107.d	1000.00 ml	05-NOV-2011 08:09	1.000	smh	7	all

2E
WATER ORGANIC SURROGATE RECOVERY

Lab Name: GCAL Contract: _____

Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 211103124

GC Column (1): _____ ID: _____ (mm) GC Cloumn (2): _____ ID: _____ (mm)

Method: MASSVPH

EPA SAMPLE NO.	SMC1				SMC1				SMC2				SMC2				TOT OUT
	1-(1)	Lo	Hi	F	1-(2)	Lo	Hi	F	2-(1)	Lo	Hi	F	2-(2)	Lo	Hi	F	
1. ES046	106	70	130						102	70	130						0
2. ES047	100	70	130						96	70	130						0
3. ES047 MS	106	70	130						102	70	130						0
4. ES047 MSD	104	70	130						99	70	130						0
5. ES049	118	70	130						113	70	130						0
6. MB1003187	100	70	130						96	70	130						0
7. LCS1003188	104	70	130						98	70	130						0

SMC 1 : 2,5-Dibromotoluene (PID)

SMC 2 : 2,5-Dibromotoluene (FID)

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

3E
WATER ORGANICS MS/MSD RECOVERY

Lab Name: GCAL Sample ID ES047
 Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 211103124
 Contract: _____ Method: MASSVPH
 Prep Batch: _____ Analytical Batch: 468512

SAMPLE NO : 21110312403

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
C5-C8 Aliphatic	ug/L	2000	0	1440	72		60 - 140
C9-C10 Aromatic	ug/L	500	174	739	113		60 - 140
C9-C12 Aliphatic	ug/L	1000	770	1760	99		60 - 140

SAMPLE NO : 21110312404

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	LIMITS RPD
C5-C8 Aliphatic	ug/L	2000	1440	72		0		60 - 140	0 - 30
C9-C10 Aromatic	ug/L	500	688	103		7		60 - 140	0 - 30
C9-C12 Aliphatic	ug/L	1000	1560	79		12		60 - 140	0 - 30

RPD : 0 out of 3 outside limits

Spike Recovery: 0 out of 6 outside limits

3E
WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL
 Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 211103124
 Contract: _____ Method: MASSVPH
 Prep Batch: _____ Analytical Batch: 468512

SAMPLE NO : 1003188

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
C5-C8 Aliphatic	ug/L	200	0	152	76		60 - 140
C9-C10 Aromatic	ug/L	50	0	54.4	109		60 - 140
C9-C12 Aliphatic	ug/L	100	0	105	105		60 - 140

RPD : 0 out of 0 outside limits

Spike Recovery: 0 out of 3 outside limits

FORM III ORG-1

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL Sample ID: MB1003187
 Lab Code: LA024 Case No.: _____ Contract: _____
 Lab Sample ID: 1003187 SAS No.: _____ SDG No.: 211103124
 Matrix: Water Sulfur Cleanup: (Y/N) N Date Extracted: _____
 Date Analyzed (1): 11/07/11 Time (1): 1221 Date Analyzed (2): _____ Time (2): _____
 Instrument ID (1): GCV5B Instrument ID (2): _____ (mm)
 GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____
 Method: MASSVPH Prep Batch: _____ Analytical Batch: 468512
 Lab File ID: 2111107/v5003

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	<i>SAMPLE NO.</i>	<i>LAB SAMPLE ID</i>	<i>DATE ANALYZED</i>	<i>TIME ANALYZED</i>	<i>INSTRUMENT ID</i>
1.	LCS1003188	1003188	11/07/11	1151	GCV5B
2.	ES046	21110312401	11/07/11	1826	GCV5B
3.	ES047	21110312402	11/07/11	1855	GCV5B
4.	ES047 MS	21110312403	11/07/11	1925	GCV5B
5.	ES047 MSD	21110312404	11/07/11	1955	GCV5B
6.	ES049	21110312405	11/08/11	1123	GCV5B

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: ES046
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211103124
 Sample wt/vol: 5 Units: mL Lab Sample ID: 21110312401
 Level: (low/med) _____ Date Collected: 10/24/11 Time: 0955
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 10/29/11
 GC Column: _____ ID: _____ (mm) Date Extracted: _____
 Concentrated Extract Volume: 5000 (µL) Date Analyzed: 11/07/11 Time: 1826
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 10 Analyst: JAR
 Injection Volume: 1 (µL) Prep Method: _____
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSVPH
 Prep Batch: _____ Analytical Batch: 468512 Sulfur Cleanup: (Y/N) N Instrument ID: GCV5B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111107/v5012

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCV-00-4	C5-C8 Aliphatic	150	U	33.1	150	300
GCV-00-6	C9-C10 Aromatic	200		12.4	50.0	100
GCV-00-5	C9-C12 Aliphatic	671		32.0	100	200

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Data file : /var/chem/gcv5b.i/2111107.b/v5012.d

Lab Smp Id: 21110312401 Client Smp ID: 21110312401

Inj Date : 07-NOV-2011 18:26

Operator : JAR Inst ID: gcv5b.i

Smp Info : 21110312401*10

Misc Info :

Comment :

Method : /var/chem/gcv5b.i/2111107.b/PIDMVP.H.m

Meth Date : 08-Nov-2011 13:39 jar Quant Type: ESTD

Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d

Als bottle: 1

Dil Factor: 10.00000

Integrator: Falcon Compound Sublist: aromatic.sub

Target Version: 3.50

Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
7 1,2,4-Trimethylbenzene	19.629	16.983	2.646	240243	19.9720	200 (M1)
M 9 C9-C10				240243	19.9720	200
\$ 10 2,5-Dibromotoluene	21.792	21.781	0.011	371963	53.1979	532

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Data File: /var/chem/gov5b.i/2111107.b/v5012.d

Page 1

Date : 07-NOV-2011 18:26

Client ID: 21110312401

Instrument: gov5b.i

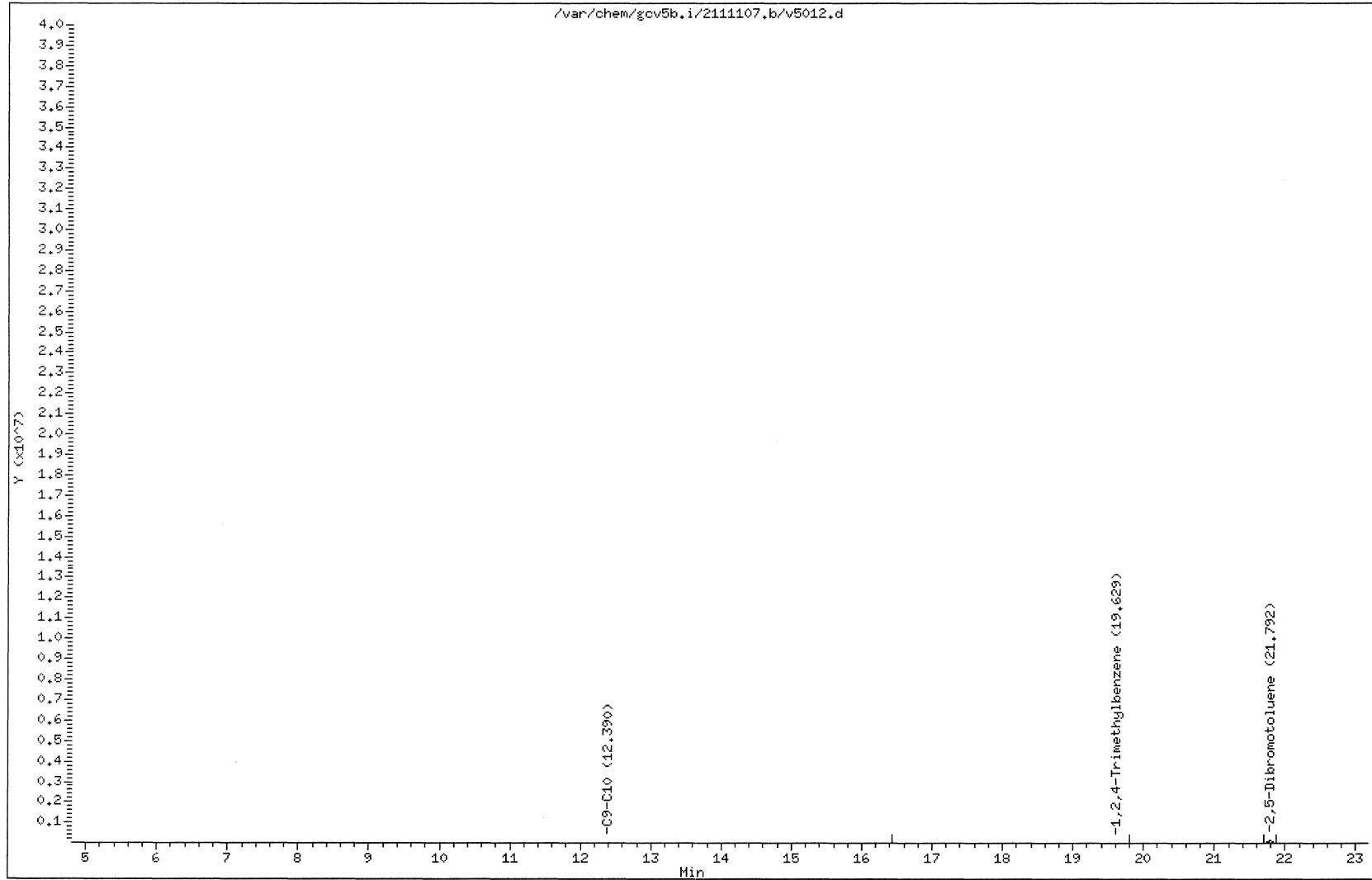
Sample Info: 21110312401*10

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

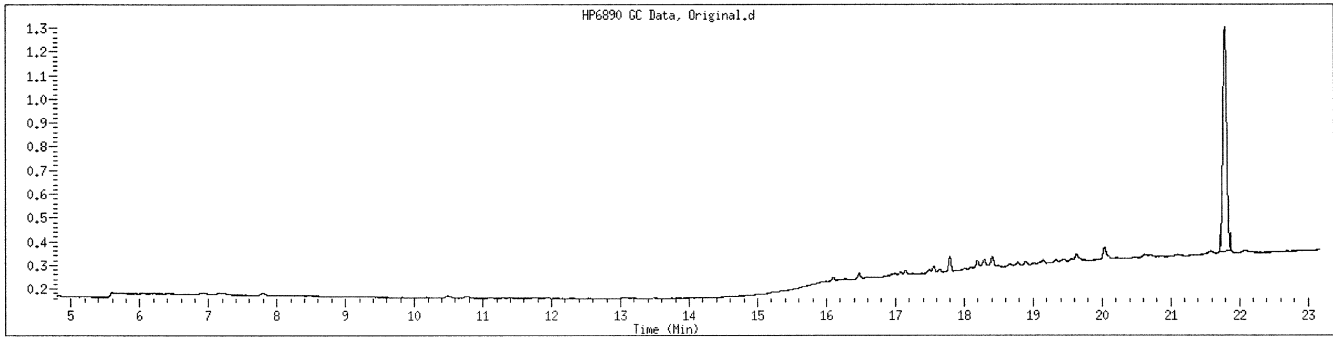


211103124 172

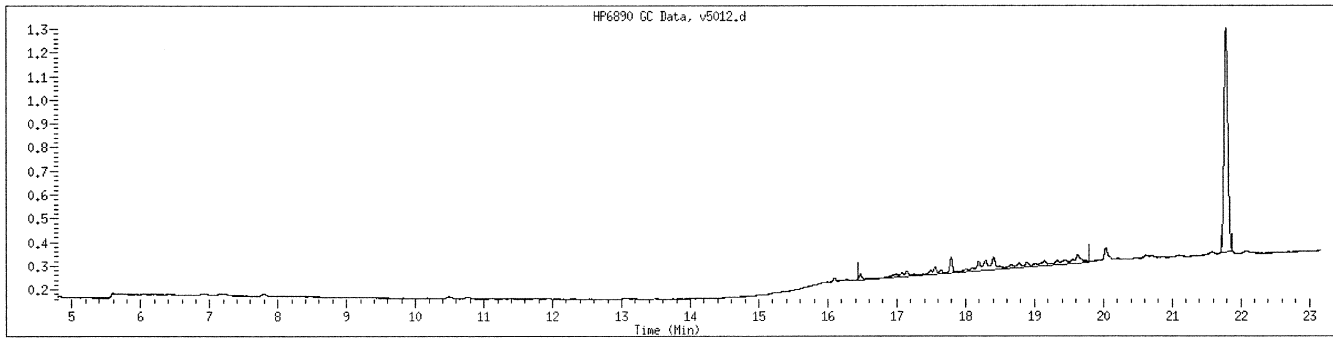
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312401 SampleType : SAMPLE
Injection Date: 11/07/2011 18:26 Instrument : gcv5b.i
Operator : JAR
Sample Info : 21110312401*10
Misc Info :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 10.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic

Original



Final



GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5012.d
 Lab Smp Id: 21110312401 Client Smp ID: 21110312401
 Inj Date : 07-NOV-2011 18:26
 Operator : JAR Inst ID: gcv5a.i
 Smp Info : 21110312401*10
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
 Meth Date : 08-Nov-2011 10:11 jar Quant Type: ESTD
 Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d
 Als bottle: 1
 Dil Factor: 10.00000
 Integrator: Falcon Compound Sublist: aliphatic1+surr.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
13 n-Decane	16.161	15.963	0.198	91480	16.4683	165 (M1)
15 n-Butylcyclohexane	17.461	16.746	0.715	301690	50.6322	506 (M1)
M 5 C9-C12				393171	67.1006	671
\$ 17 2,5-Dibromotoluene	21.307	21.301	0.006	152664	51.0641	511

QC Flag Legend

M1- Compound response manually integrated because
 Target system did not integrate.

Date : 07-NOV-2011 18:26

Client ID: 21110312401

Instrument: gcv5a.i

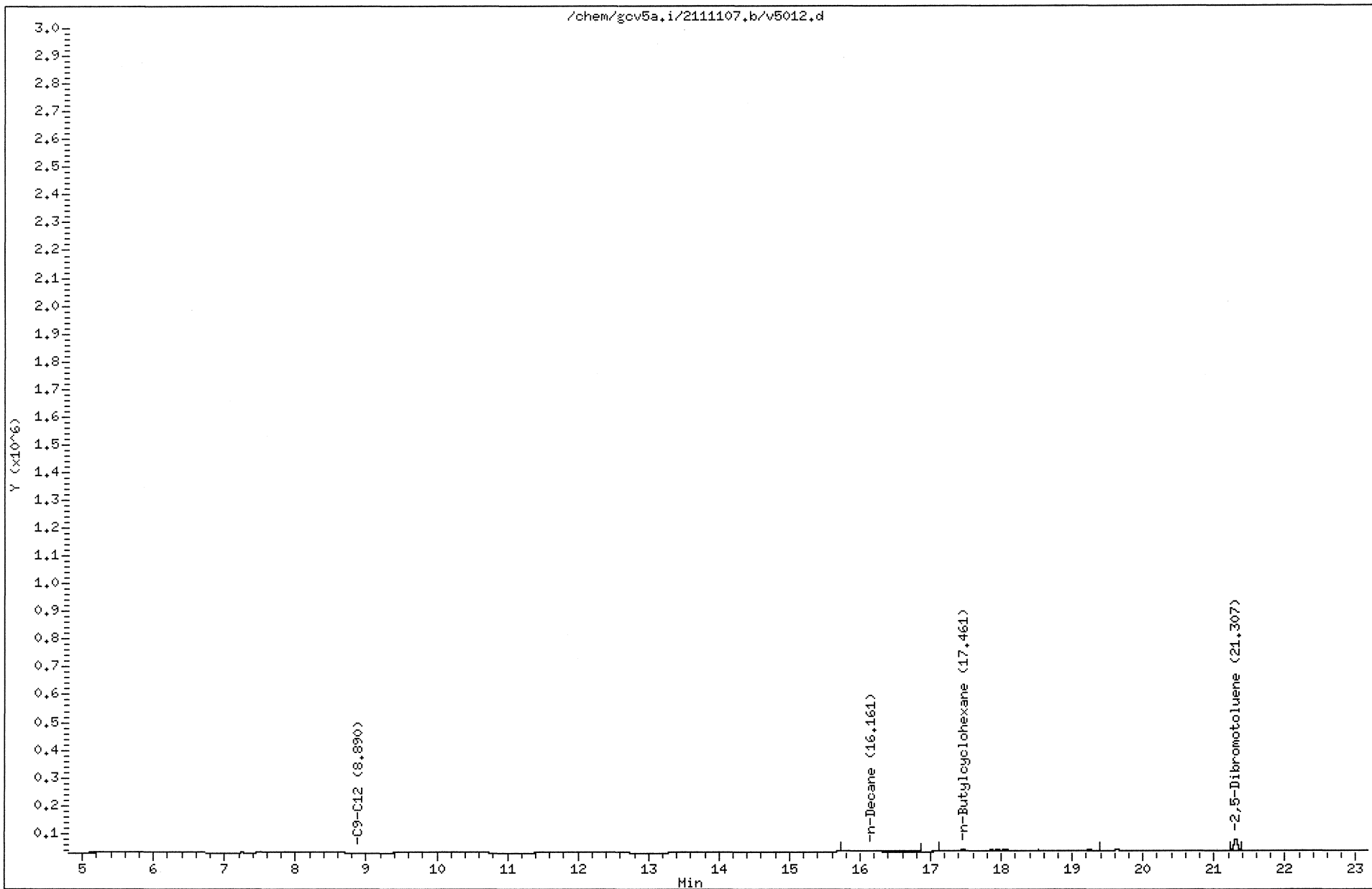
Sample Info: 21110312401*10

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

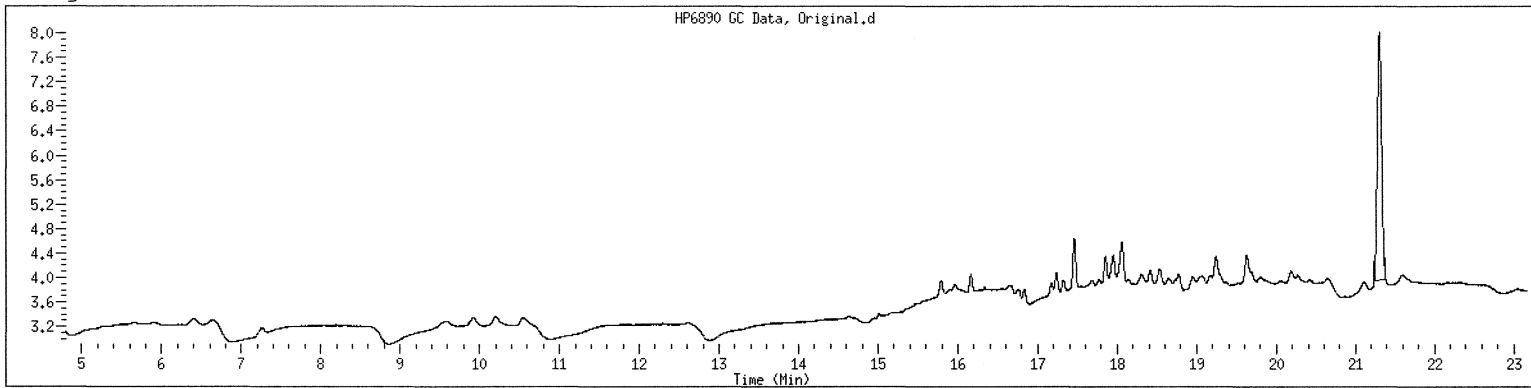


211103124 175

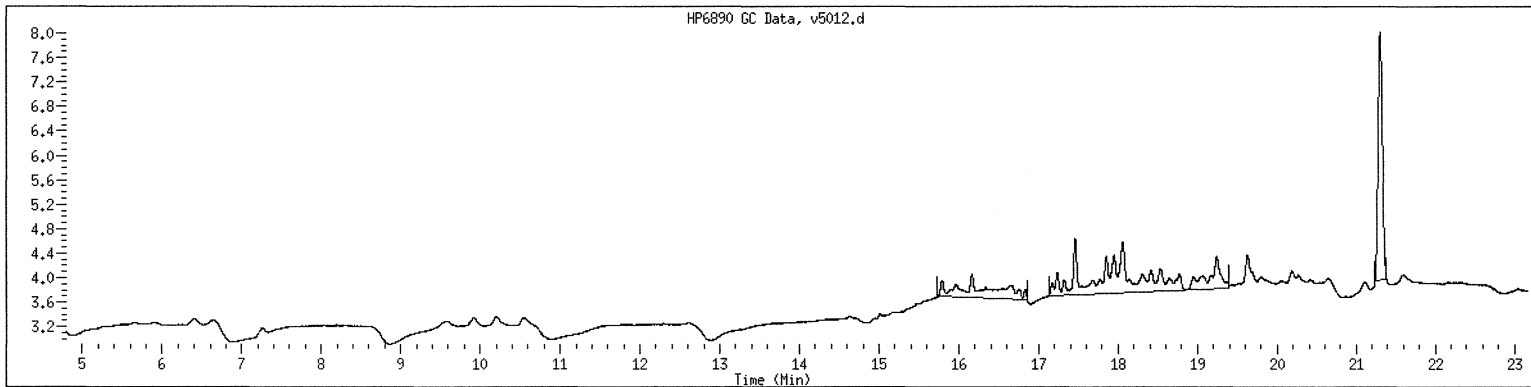
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312401 SampleType : SAMPLE
Injection Date: 11/07/2011 18:26 Instrument : gcv5a.i
Operator : JAR
Sample Info : 21110312401*10
Misc Info :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Dilution : 10.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: ES047
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211103124
 Sample wt/vol: 5 Units: mL Lab Sample ID: 21110312402
 Level: (low/med) _____ Date Collected: 10/24/11 Time: 0830
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 10/29/11
 GC Column: _____ ID: _____ (mm) Date Extracted: _____
 Concentrated Extract Volume: 5000 (μ L) Date Analyzed: 11/07/11 Time: 1855
 Soil Aliquot Volume: _____ (μ L) Dilution Factor: 10 Analyst: JAR
 Injection Volume: 1 (μ L) Prep Method: _____
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSVPH
 Prep Batch: _____ Analytical Batch: 468512 Sulfur Cleanup: (Y/N) N Instrument ID: GCV5B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111107/v5013

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCV-00-4	C5-C8 Aliphatic	150	U	33.1	150	300
GCV-00-6	C9-C10 Aromatic	174		12.4	50.0	100
GCV-00-5	C9-C12 Aliphatic	770		32.0	100	200

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5013.d

Lab Smp Id: 21110312402 Client Smp ID: 21110312402

Inj Date : 07-NOV-2011 18:55

Operator : JAR Inst ID: gcv5b.i

Smp Info : 21110312402*10

Misc Info :

Comment :

Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m

Meth Date : 08-Nov-2011 13:39 jar Quant Type: ESTD

Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d

Als bottle: 1

Dil Factor: 10.00000

Integrator: Falcon Compound Sublist: aromatic.sub

Target Version: 3.50

Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

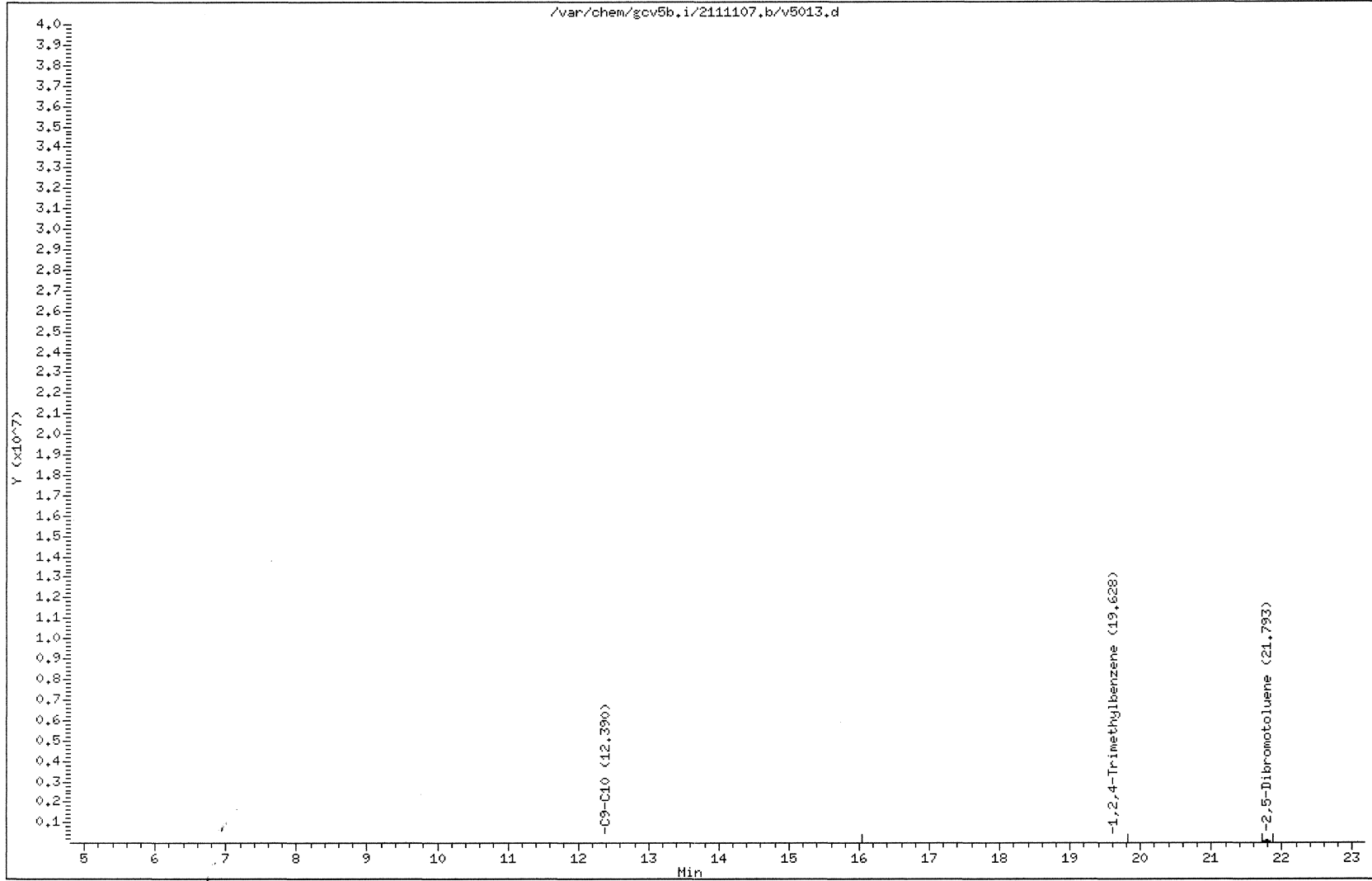
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
7 1,2,4-Trimethylbenzene	19.628	16.983	2.645	209265	17.3968	174 (M1)
M 9 C9-C10				209265	17.3968	174
\$ 10 2,5-Dibromotoluene	21.793	21.781	0.012	350440	50.1197	501

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Data File: /var/chem/gcv5b.i/2111107.b/v5013.d
Date : 07-NOV-2011 18:55
Client ID: 21110312402
Sample Info: 21110312402*10
Volume Injected (uL): 1.0
Column phase: DB-624-30

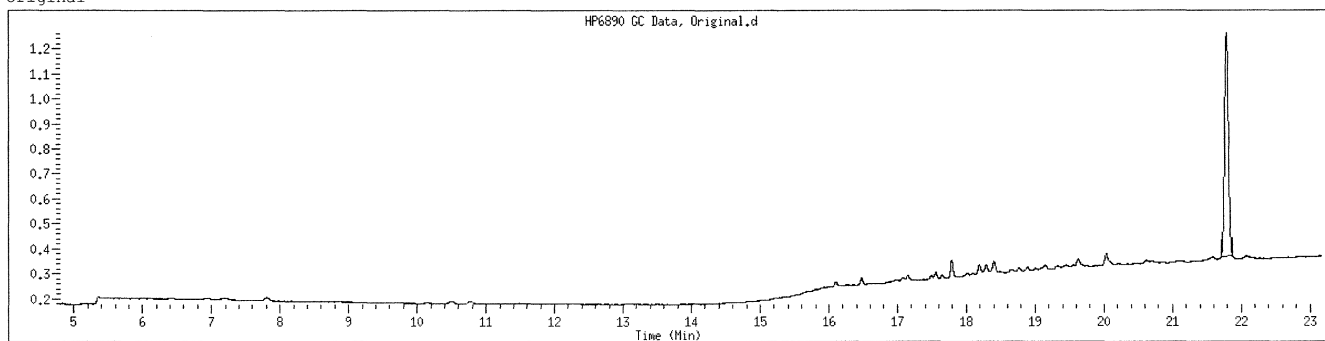
Instrument: gcv5b.i
Operator: JAR
Column diameter: 0.53



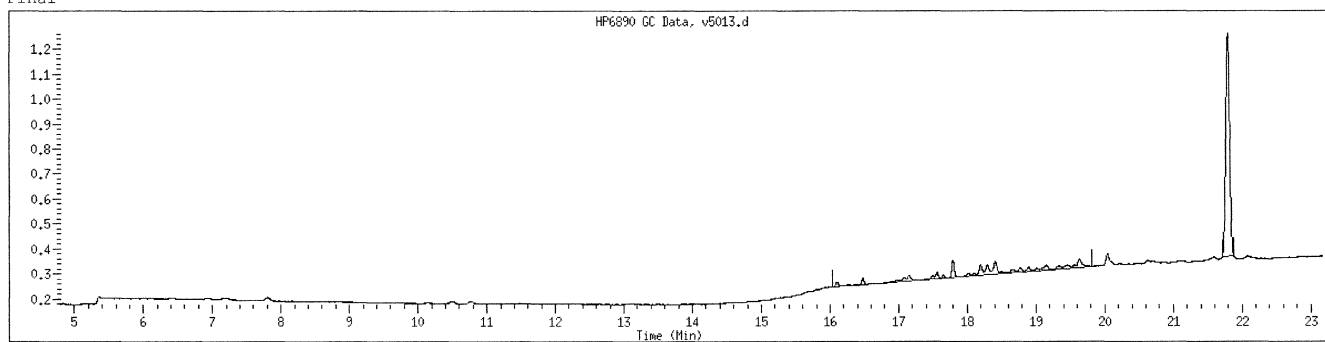
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312402 SampleType : SAMPLE
Injection Date: 11/07/2011 18:55 Instrument : gcv5b.i
Operator : JAR
Sample Info : 21110312402*10
Misc Info :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 10.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic

Original



Final



GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5013.d
Lab Smp Id: 21110312402 Client Smp ID: 21110312402
Inj Date : 07-NOV-2011 18:55
Operator : JAR Inst ID: gcv5a.i
Smp Info : 21110312402*10
Misc Info :
Comment :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Meth Date : 08-Nov-2011 10:11 jar Quant Type: ESTD
Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d
Als bottle: 1
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: aliphatic1+surr.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
13 n-Decane	16.161	15.963	0.198	78764	14.1792	142 (M1)
15 n-Butylcyclohexane	17.459	16.746	0.713	374454	62.8440	628 (M1)
M 5 C9-C12				453219	77.0232	770
\$ 17 2,5-Dibromotoluene	21.305	21.301	0.004	144053	48.1838	482

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Date : 07-NOV-2011 18:55

Client ID: 21110312402

Sample Info: 21110312402*10

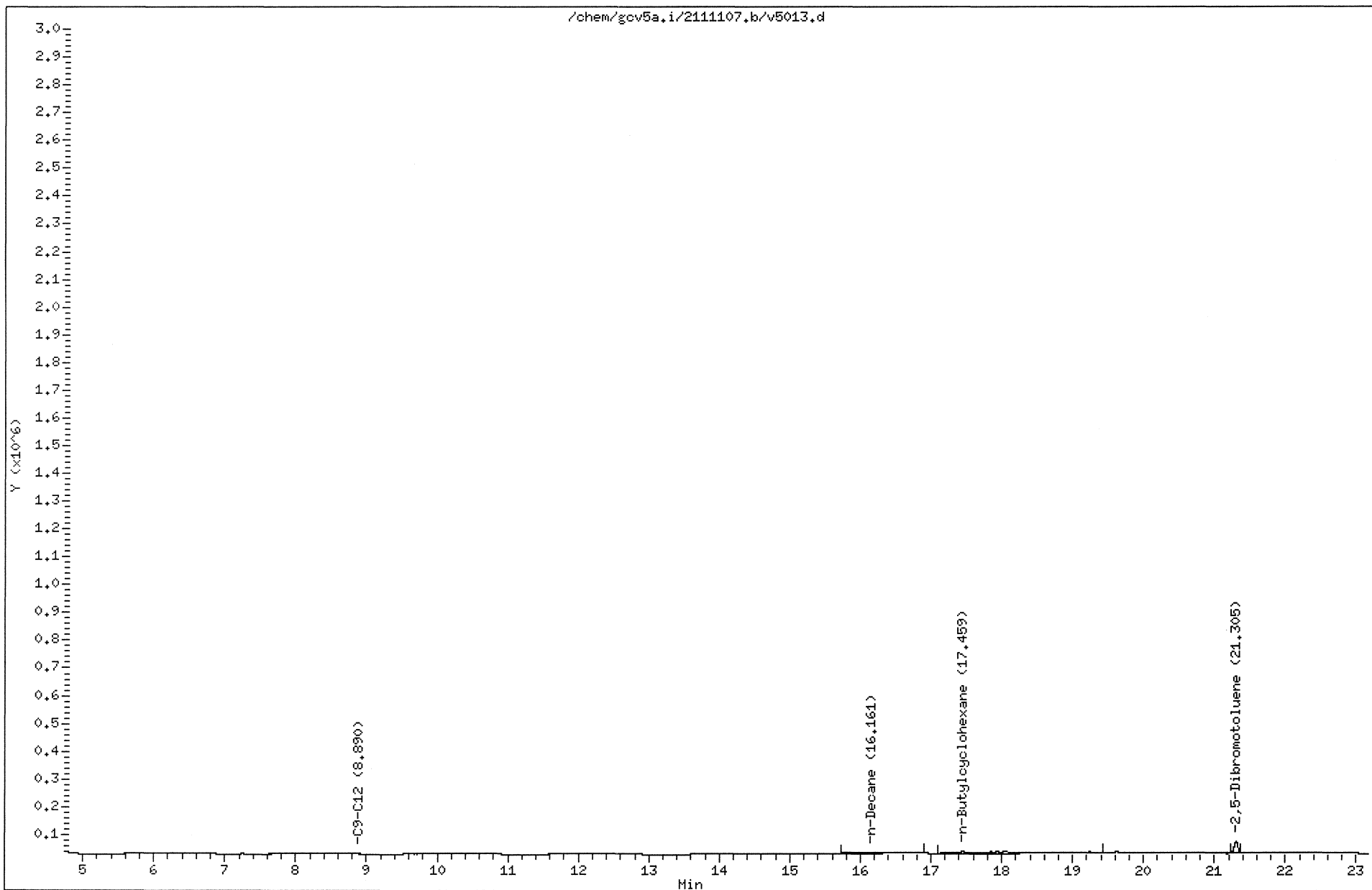
Volume Injected (uL): 1.0

Column phase: DB-624-30

Instrument: gcv5a.i

Operator: JAR

Column diameter: 0.53

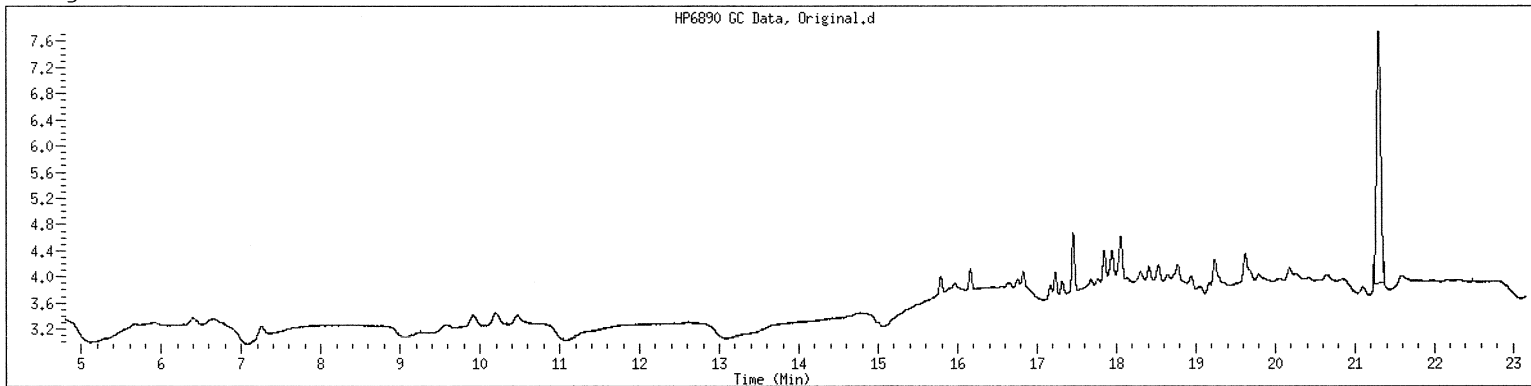


211103124 182

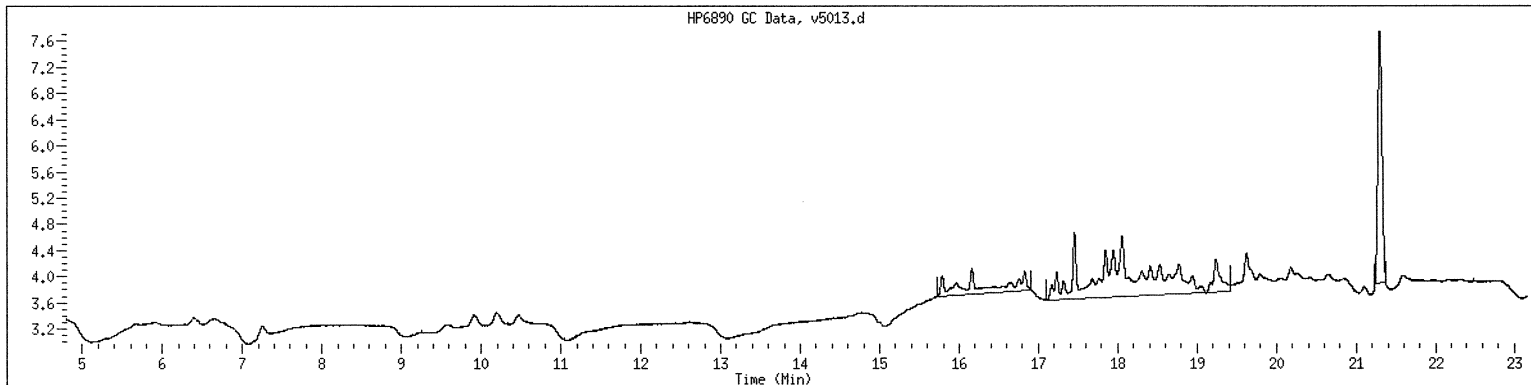
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312402 SampleType : SAMPLE
Injection Date: 11/07/2011 18:55 Instrument : gcv5a.i
Operator : JAR
Sample Info : 21110312402*10
Misc Info :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Dilution : 10.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: ES049
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211103124
 Sample wt/vol: 5 Units: mL Lab Sample ID: 21110312405
 Level: (low/med) _____ Date Collected: 10/24/11 Time: 1435
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 10/29/11
 GC Column: _____ ID: _____ (mm) Date Extracted: _____
 Concentrated Extract Volume: 5000 (µL) Date Analyzed: 11/08/11 Time: 1123
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: JAR
 Injection Volume: 1 (µL) Prep Method: _____
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSVPH
 Prep Batch: _____ Analytical Batch: 468512 Sulfur Cleanup: (Y/N) N Instrument ID: GCV5B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111107/v5028

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCV-00-4	C5-C8 Aliphatic	15.0	U	3.31	15.0	30.0
GCV-00-6	C9-C10 Aromatic	5.00	U	1.24	5.00	10.0
GCV-00-5	C9-C12 Aliphatic	10.0	U	3.20	10.0	20.0

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5028.d
 Lab Smp Id: 21110312405 Client Smp ID: 21110312405
 Inj Date : 08-NOV-2011 11:23
 Operator : JAR Inst ID: gcv5b.i
 Smp Info : 21110312405
 Misc Info :
 Comment :
 Method : /var/chem/gcv5b.i/2111107.b/PIDMVP.H.m
 Meth Date : 08-Nov-2011 13:39 jar Quant Type: ESTD
 Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: aromatic.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
\$ 10 2,5-Dibromotoluene	21.806	21.781	0.025	413385	59.1220	59.1

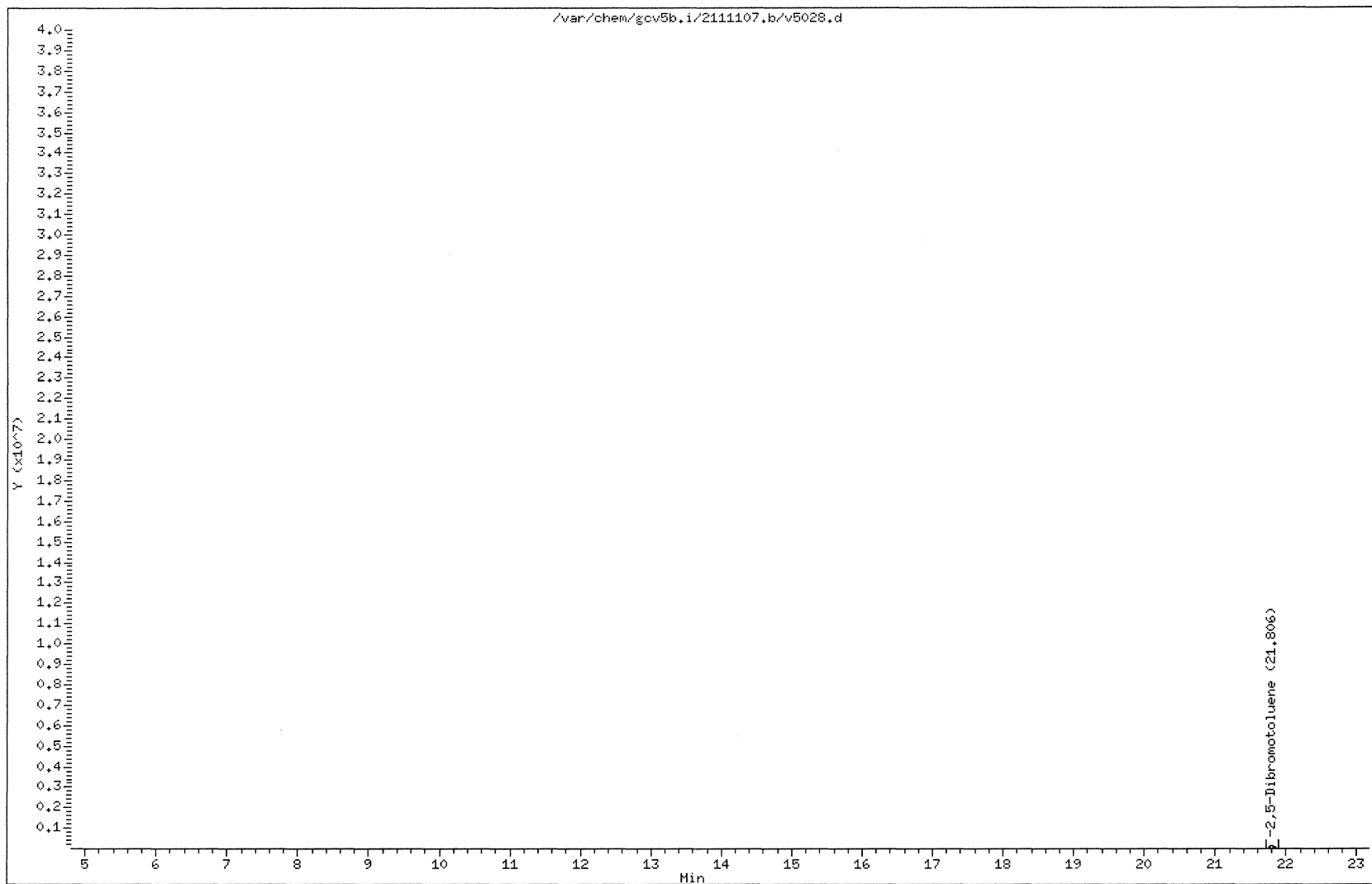
Data File: /var/chem/gcv5b.i/2111107,b/v5028.d
Date : 08-NOV-2011 11:23
Client ID: 21110312405
Sample Info: 21110312405
Volume Injected (uL): 1.0
Column phase: DB-624-30

Page 1

Instrument: gcv5b.i

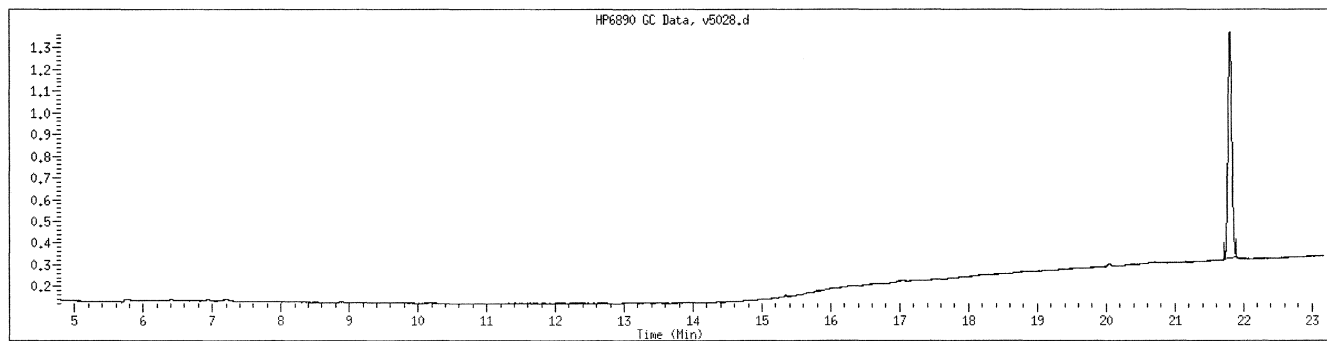
Operator: JAR

Column diameter: 0.53



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312405 SampleType : SAMPLE
Injection Date: 11/08/2011 11:23 Instrument : gcv5b.i
Operator : JAR
Sample Info : 21110312405
Misc Info :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5028.d
 Lab Smp Id: 21110312405 Client Smp ID: 21110312405
 Inj Date : 08-NOV-2011 11:23
 Operator : JAR Inst ID: gcv5a.i
 Smp Info : 21110312405
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
 Meth Date : 08-Nov-2011 10:11 jar Quant Type: ESTD
 Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: aliphatic1+surr.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
\$ 17 2,5-Dibromotoluene	21.321	21.301	0.020	169425	56.6708	56.7

Date : 08-NOV-2011 11:23

Client ID: 21110312405

Instrument: gcv5a.i

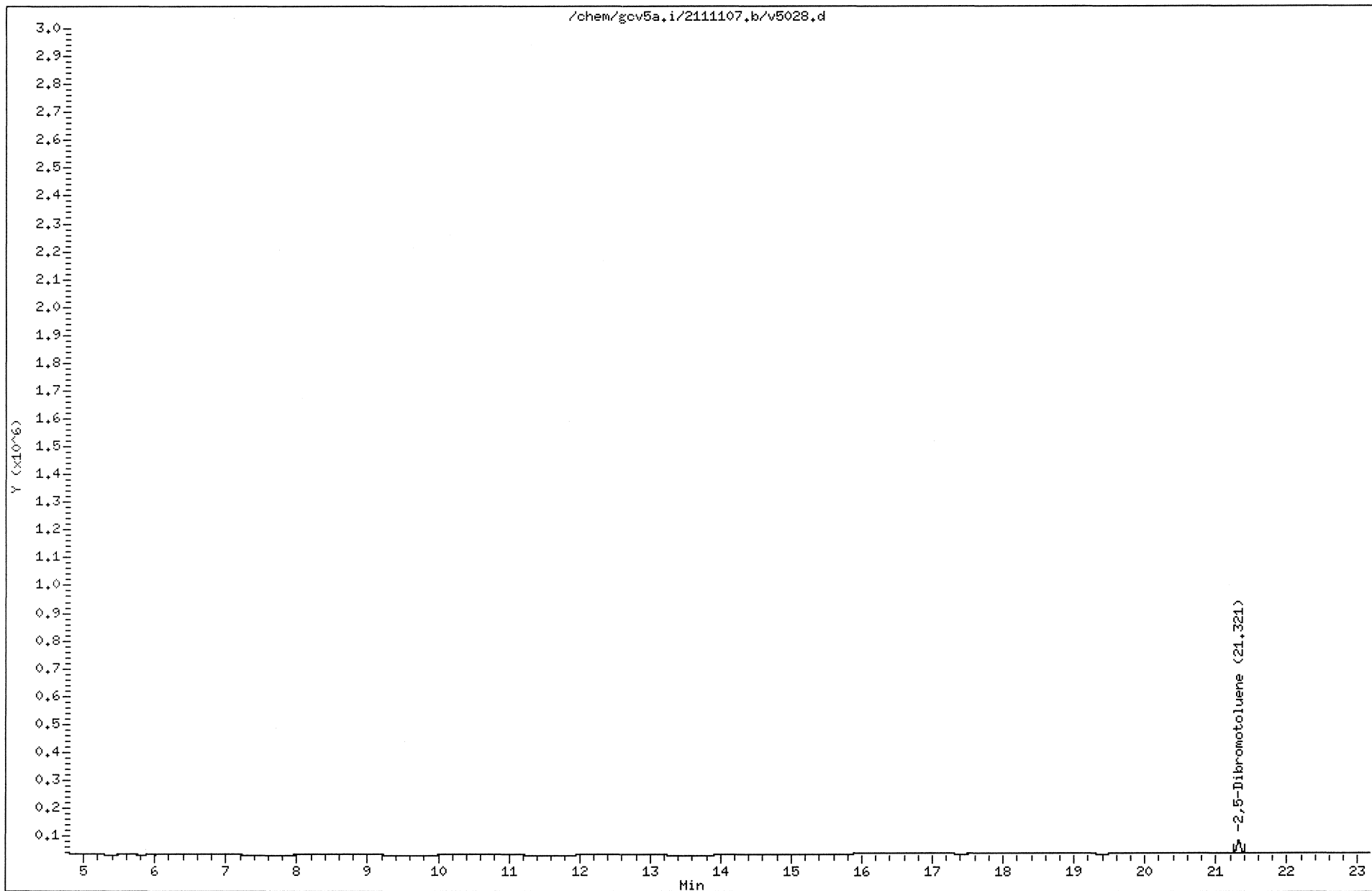
Sample Info: 21110312405

Operator: JAR

Volume Injected (uL): 1.0

Column diameter: 0.53

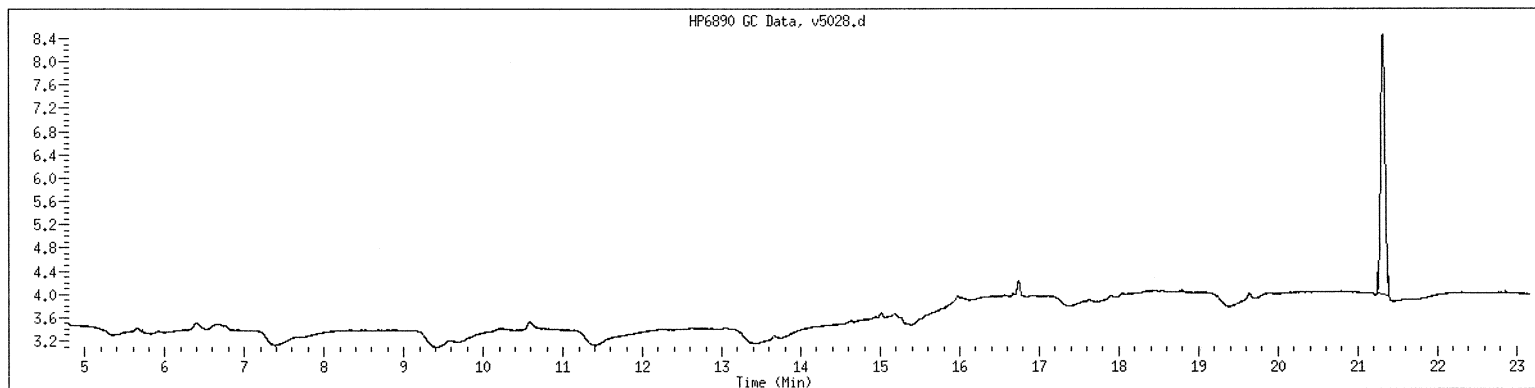
Column phase: DB-624-30



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312405 SampleType : SAMPLE
Injection Date: 11/08/2011 11:23 Instrument : gcv5a.i
Operator : JAR
Sample Info : 21110312405
Misc Info :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr



NO MANUAL INTEGRATIONS

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-OCT-2011 17:26
 End Cal Date : 05-NOV-2011 01:52
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
 Cal Date : 08-Nov-2011 15:58 jar
 Curve Type : Average

Calibration File Names:

Level 1: /var/chem/gcv5b.i/2111104P.b/v5003.d
 Level 2: /var/chem/gcv5b.i/2111104P.b/v5005.d
 Level 3: /var/chem/gcv5b.i/2111104P.b/v5007.d
 Level 4: /var/chem/gcv5b.i/2111104P.b/v5009.d
 Level 5: /var/chem/gcv5b.i/2111104P.b/v5011.d
 Level 6: /var/chem/gcv5b.i/2111104P.b/v5001.d

Compound	10.000 Level 1	20.000 Level 2	50.000 Level 3	80.000 Level 4	100.000 Level 5	5.000 Level 6	RRF	% RSD
1 MTBE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Ethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 m,p-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 o-Xylene	14195	13955	13772	12590	12083	14822	13570	7.600
7 1,2,4-Trimethylbenzene	12356	12603	12435	11425	10922	12432	12029	5.703
8 Naphthalene	10595	10426	10486	9839	9920	9852	10186	3.453
M 9 C9-C10	12356	12603	12435	11425	10922	12432	12029	5.703
\$ 10 2,5-Dibromotoluene	7122	6944	7032	6909	6886	7060	6992	1.337

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111104P.b/v5001.d
Lab Smp Id: VPH05/6/12/4
Inj Date : 04-NOV-2011 20:57
Operator : JAR
Smp Info : VPH05/6/12/4
Misc Info :
Comment :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Meth Date : 07-Nov-2011 10:04 jar
Cal Date : 04-NOV-2011 20:57
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Processing Host: org.gcal.com
Inst ID: gcv5b.i
Quant Type: ESTD
Cal File: v5001.d
Calibration Sample, Level: 6
Compound Sublist: aromatic.sub

Concentration Formula: $Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS						
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	
6 o-Xylene	15.776	15.776	0.000	74110	5.00000	7.8	
7 1,2,4-Trimethylbenzene	16.982	16.982	0.000	62160	5.00000	7.0	
M 9 C9-C10				62160	5.00000	7.0	
8 Naphthalene	20.032	20.032	0.000	49258	5.00000	6.2	
\$ 10 2,5-Dibromotoluene	21.783	21.783	0.000	353009	50.0000	68.8	

Data File: /chem/gcv5b,i/2111104P,b/v5001,d

Page 1

Date : 04-NOV-2011 20:57

Client ID:

Instrument: gcv5b.i

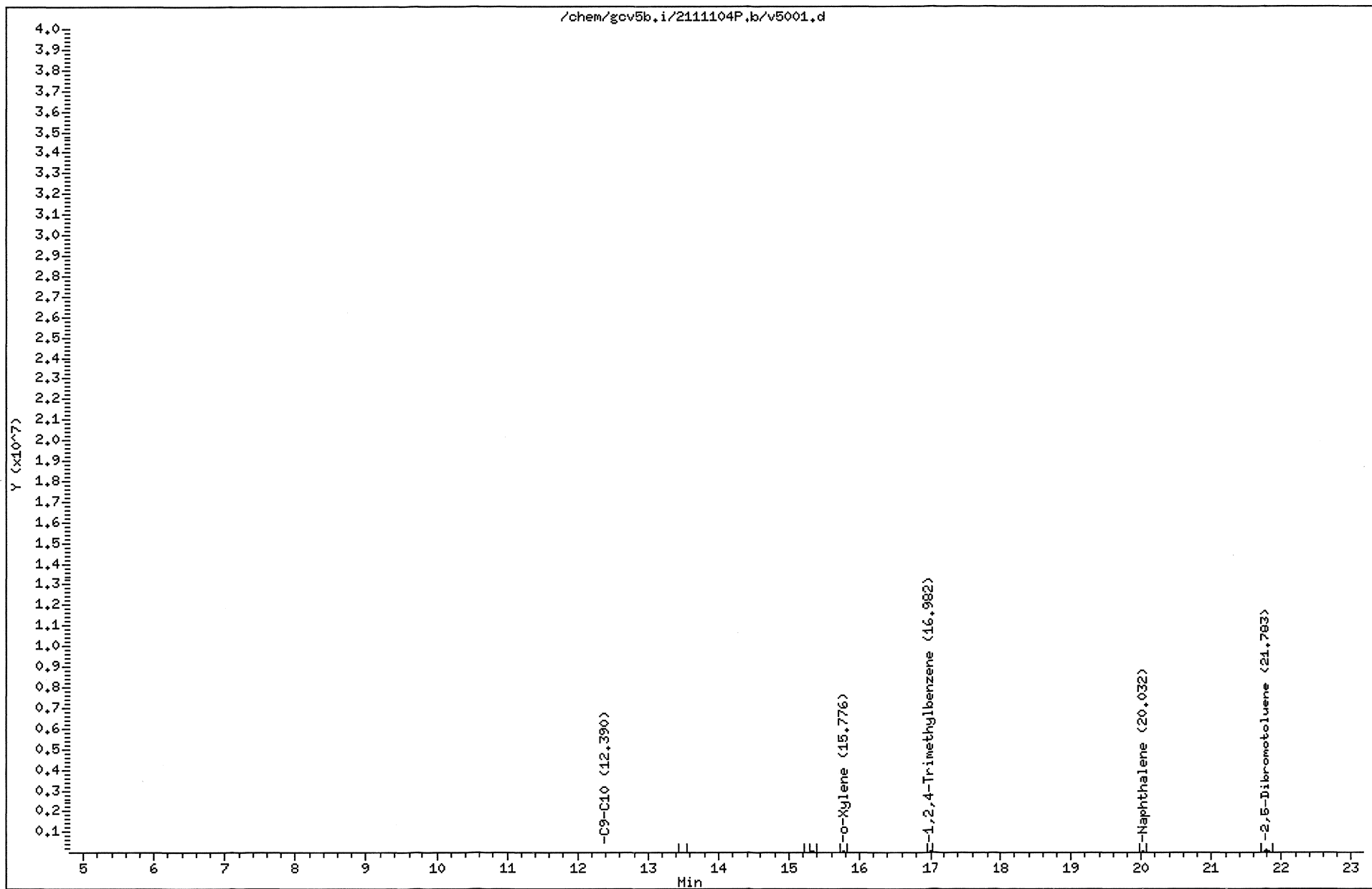
Sample Info: VPH05/6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

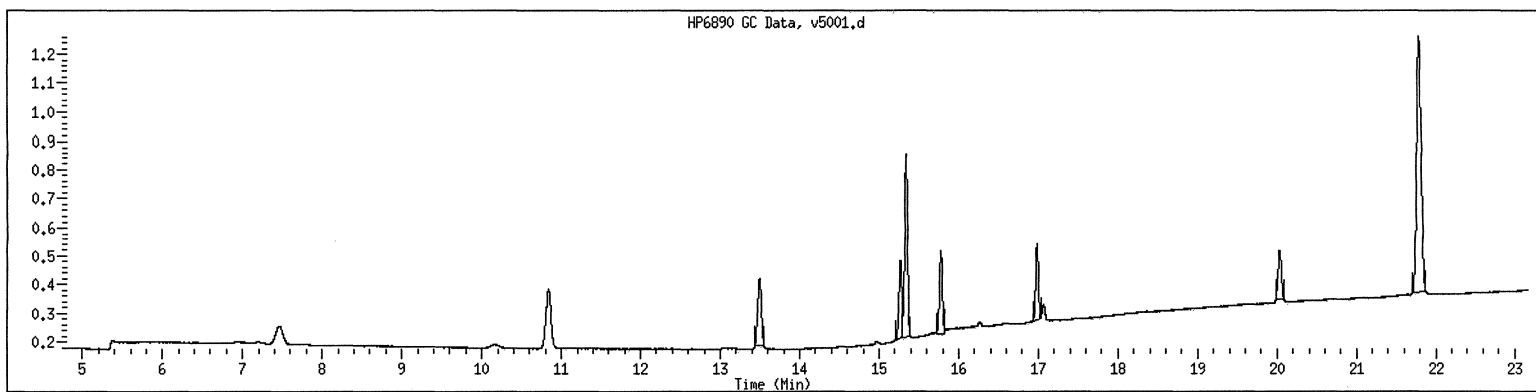
Column diameter: 0.53



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH05/6/12/4 SampleType : CALIB_6
Injection Date: 11/04/2011 20:57 Instrument : gcv5b.i
Operator : JAR
Sample Info : VPH05/6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111104P.b/v5003.d
 Lab Smp Id: VPH10/6/12/4
 Inj Date : 04-NOV-2011 21:56
 Operator : JAR
 Smp Info : VPH10/6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
 Meth Date : 07-Nov-2011 10:04 jar
 Cal Date : 04-NOV-2011 21:56
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5b.i
 Quant Type: ESTD
 Cal File: v5003.d
 Calibration Sample, Level: 1
 Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
6 o-Xylene	15.776	15.776	0.000	141953	10.0000	13.9
7 1,2,4-Trimethylbenzene	16.982	16.982	0.000	123561	10.0000	13.4
M 9 C9-C10				123561	10.0000	13.4
8 Naphthalene	20.030	20.030	0.000	105949	10.0000	13.0
\$ 10 2,5-Dibromotoluene	21.780	21.780	0.000	356100	50.0000	64.4

Data File: /chem/gov5b.i/2111104P.b/v5003.d

Page 1

Date : 04-NOV-2011 21:56

Client ID:

Instrument: gov5b.i

Sample Info: VPH10/6/12/4

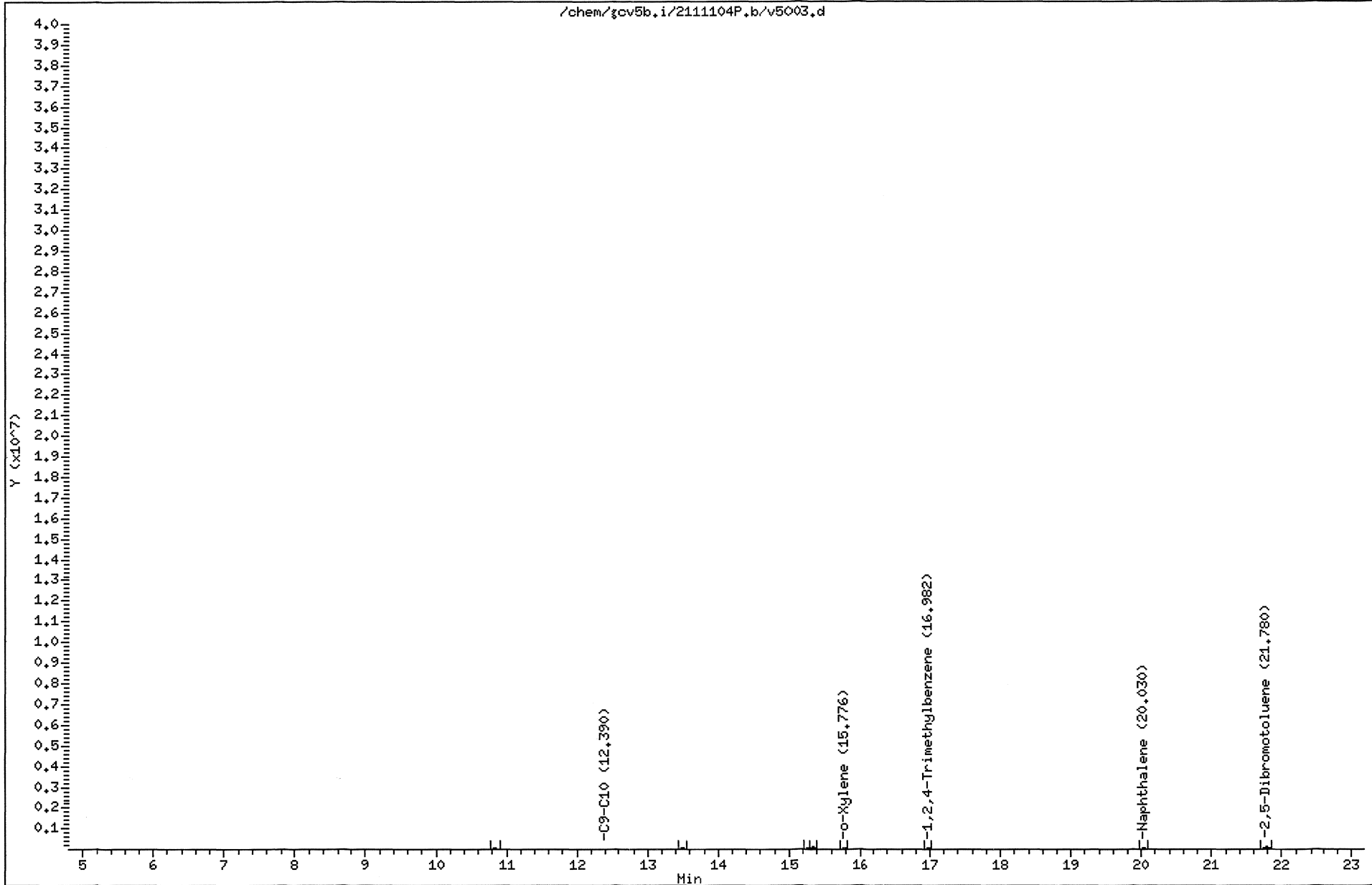
Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

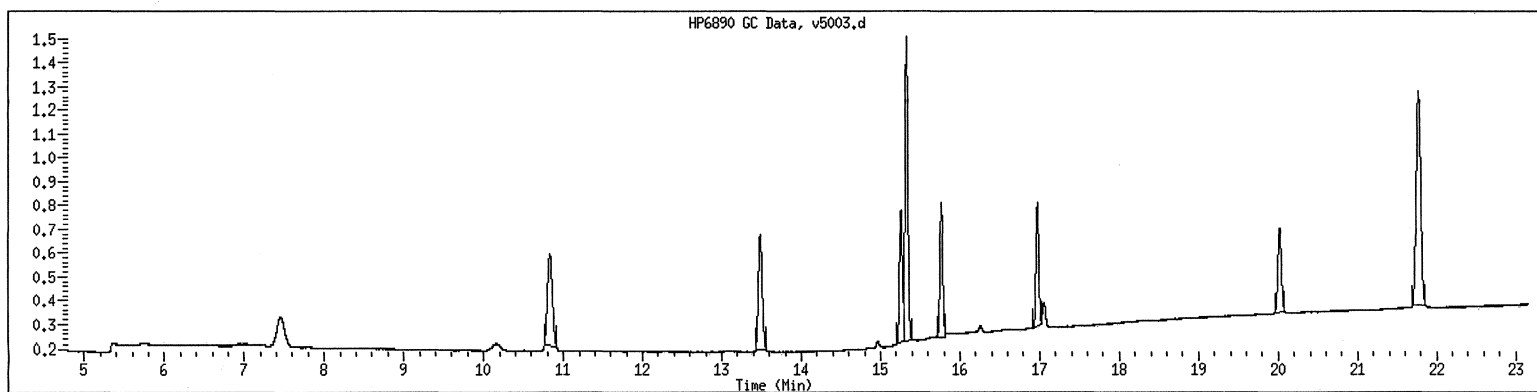
/chem/gov5b.i/2111104P.b/v5003.d



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH10/6/12/4 SampleType : CALIB_1
Injection Date: 11/04/2011 21:56 Instrument : gcv5b.i
Operator : JAR
Sample Info : VPH10/6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111104P.b/v5005.d
Lab Smp Id: VPH20/6/12/4
Inj Date : 04-NOV-2011 22:55
Operator : JAR
Smp Info : VPH20/6/12/4
Misc Info :
Comment :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Meth Date : 07-Nov-2011 10:04 jar
Cal Date : 04-NOV-2011 22:55
Als bottle: 1
Dil Factor: 50.00000
Integrator: Falcon
Target Version: 3.50
Processing Host: org.gcal.com
Inst ID: gcv5b.i
Quant Type: ESTD
Cal File: v5005.d
Calibration Sample, Level: 2
Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariab

Name	Value	Description
DF	50.00000	Dilution Factor
Uf	5.00000	Correction factor
Vt	1.00000	Volume of final extract (uL) (1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
6 o-Xylene	15.776	15.776	0.000	279105	20.0000	25.3
7 1,2,4-Trimethylbenzene	16.982	16.982	0.000	252061	20.0000	25.5
M 9 C9-C10				252061	20.0000	25.5
8 Naphthalene	20.028	20.028	0.000	208523	20.0000	24.6
\$ 10 2,5-Dibromotoluene	21.779	21.779	0.000	347190	50.0000	58.7

Data File: /chem/gcv5b.i/2111104P.b/v5005.d

Page 1

Date : 04-NOV-2011 22:55

Client ID:

Instrument: gcv5b.i

Sample Info: VPH20/6/12/4

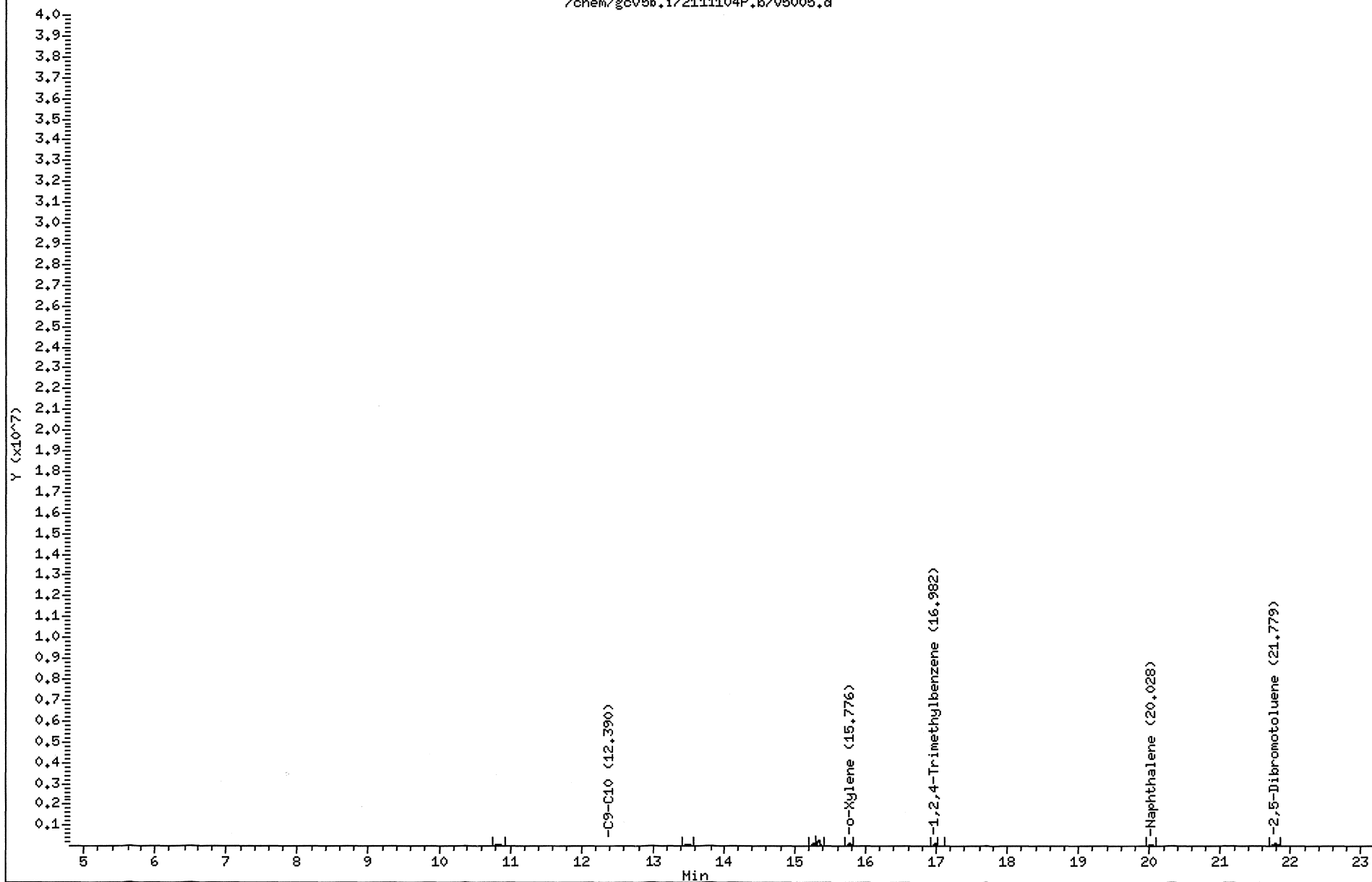
Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

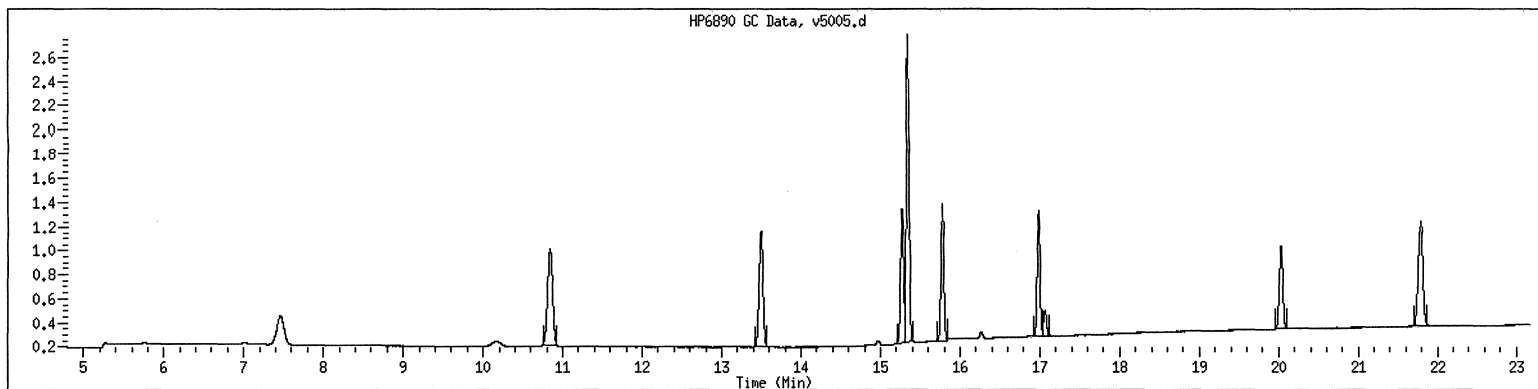
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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH20/6/12/4 SampleType : CALIB_2
Injection Date: 11/04/2011 22:55 Instrument : gcv5b.i
Operator : JAR
Sample Info : VPH20/6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Dilution : 50.0
Matrix : SOIL
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111104P.b/v5007.d
 Lab Smp Id: VPH50/6/12/4
 Inj Date : 04-NOV-2011 23:54
 Operator : JAR
 Smp Info : VPH50/6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
 Meth Date : 07-Nov-2011 10:04 jar
 Cal Date : 04-NOV-2011 23:54
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5b.i

Quant Type: ESTD

Cal File: v5007.d

Calibration Sample, Level: 3

Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
6 o-Xylene	15.775	15.775	0.000	688621	50.0000	56.8
7 1,2,4-Trimethylbenzene	16.980	16.980	0.000	621749	50.0000	57.5
M 9 C9-C10				621749	50.0000	57.5
8 Naphthalene	20.026	20.026	0.000	524320	50.0000	57.1
\$ 10 2,5-Dibromotoluene	21.778	21.778	0.000	351593	50.0000	56.0

Date : 04-NOV-2011 23:54

Client ID:

Instrument: gcv5b.i

Sample Info: VPH50/6/12/4

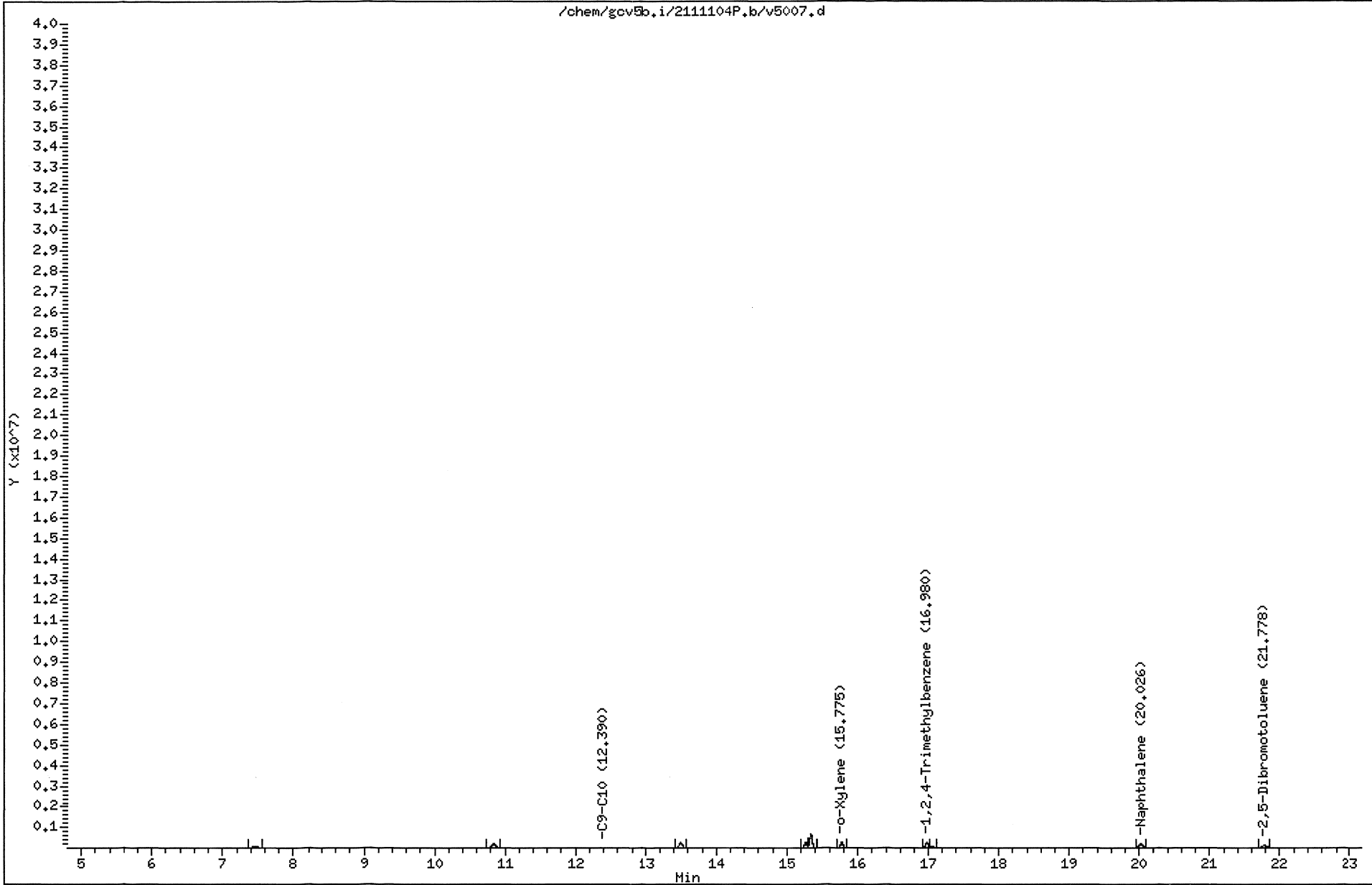
Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

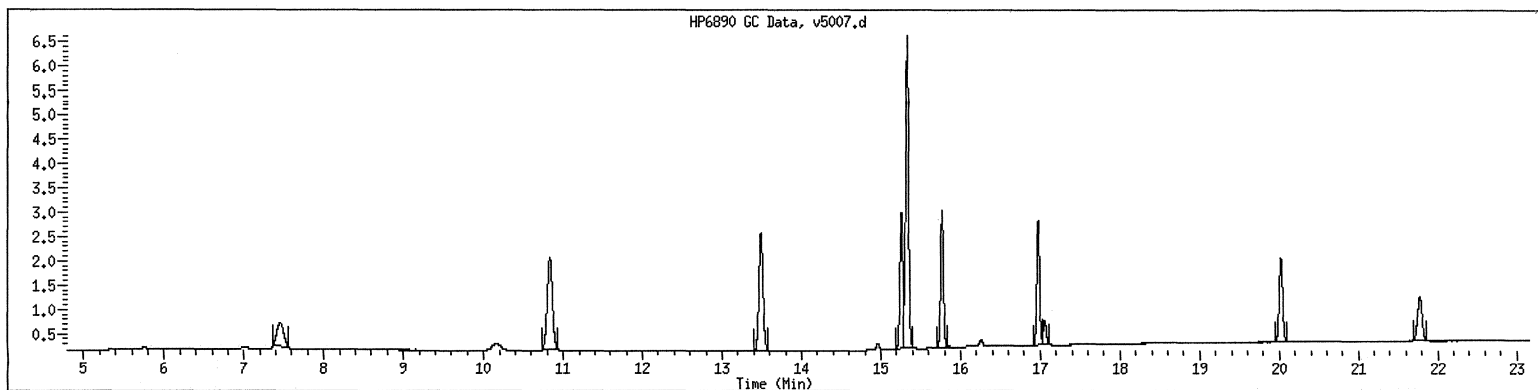
/chem/gcv5b.i/2111104P,b/v5007.d



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH50/6/12/4 SampleType : CALIB_3
Injection Date: 11/04/2011 23:54 Instrument : gcv5b.i
Operator : JAR
Sample Info : VPH50/6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111104P.b/v5009.d
 Lab Smp Id: VPH80/6/12/4
 Inj Date : 05-NOV-2011 00:53
 Operator : JAR
 Smp Info : VPH80/6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
 Meth Date : 07-Nov-2011 10:04 jar
 Cal Date : 05-NOV-2011 00:53
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5b.i

Quant Type: ESTD

Cal File: v5009.d

Calibration Sample, Level: 4

Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
6 o-Xylene	15.774	15.774	0.000	1007189	80.0000	78.2
7 1,2,4-Trimethylbenzene	16.980	16.980	0.000	914021	80.0000	79.8
M 9 C9-C10				914021	80.0000	79.8
8 Naphthalene	20.026	20.026	0.000	787100	80.0000	81.3
\$ 10 2,5-Dibromotoluene	21.776	21.776	0.000	345440	50.0000	52.0

Data File: /chem/gcv5b.i/2111104P.b/v5009.d

Page 1

Date : 05-NOV-2011 00:53

Client ID:

Instrument: gcv5b.i

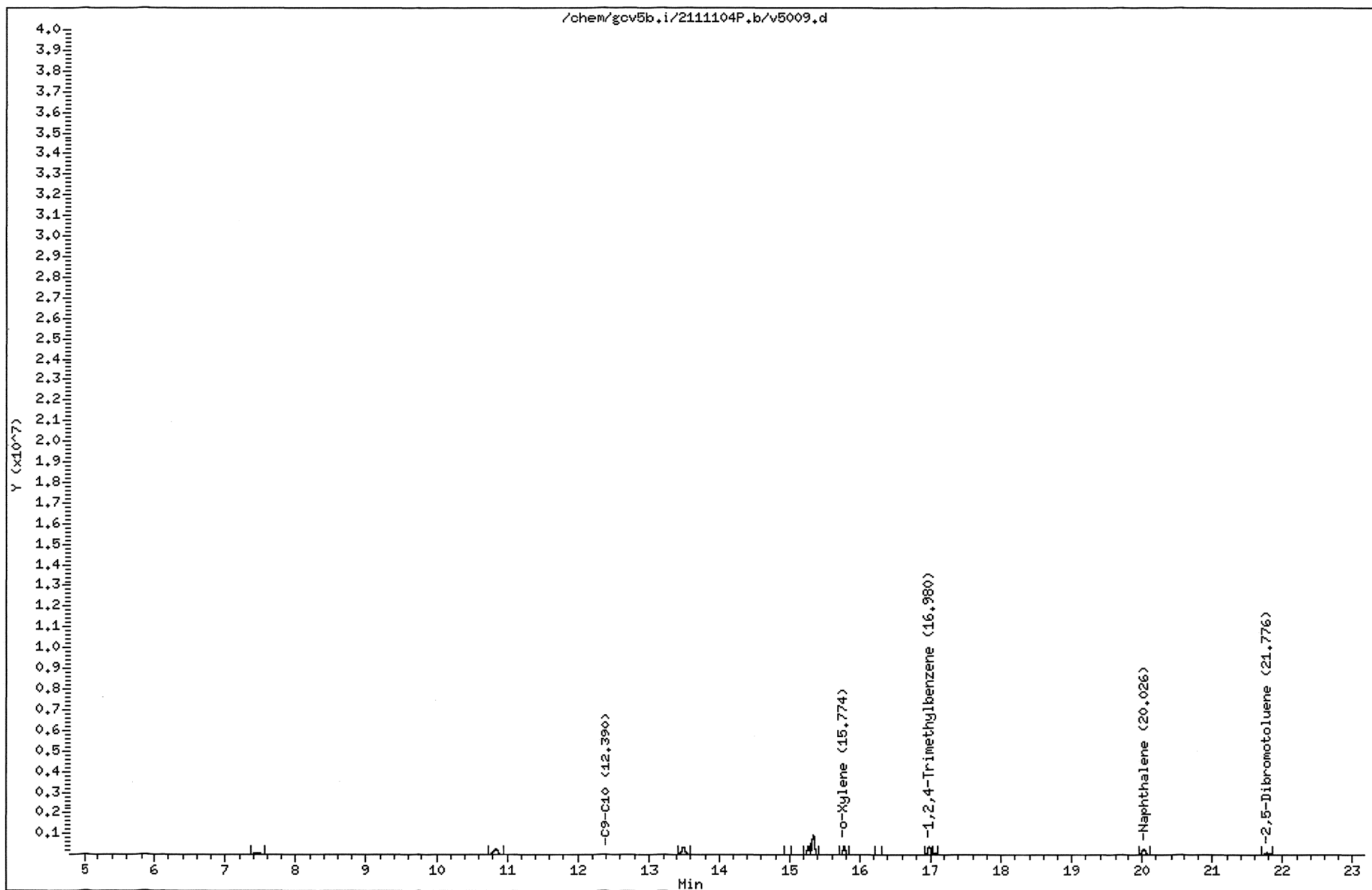
Sample Info: VPH80/6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

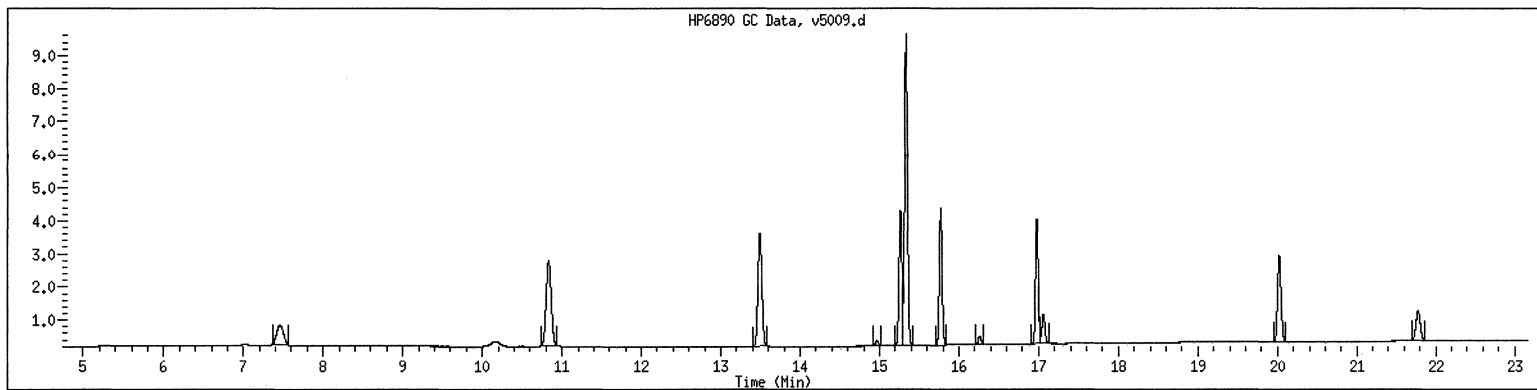
Column diameter: 0.53



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH80/6/12/4 SampleType : CALIB_4
Injection Date: 11/05/2011 00:53 Instrument : gcv5b.i
Operator : JAR
Sample Info : VPH80/6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111104P.b/v5011.d
Lab Smp Id: VPH100/6/12/4
Inj Date : 05-NOV-2011 01:52
Operator : JAR
Smp Info : VPH100/6/12/4
Misc Info :
Comment :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Meth Date : 07-Nov-2011 10:04 jar
Cal Date : 05-NOV-2011 01:52
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Processing Host: org.gcal.com
Inst ID: gcv5b.i
Quant Type: ESTD
Cal File: v5011.d
Calibration Sample, Level: 5
Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS						
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	
6 o-Xylene	15.776	15.776	0.000	1208340	100.000	89.0	
7 1,2,4-Trimethylbenzene	16.982	16.982	0.000	1092238	100.000	90.8	
M 9 C9-C10				1092238	100.000	90.8	
8 Naphthalene	20.028	20.028	0.000	991962	100.000	97.4	
\$ 10 2,5-Dibromotoluene	21.780	21.780	0.000	344287	50.0000	49.2	

Data File: /chem/gcv5b.i/2111104P.b/v5011.d

Page 1

Date : 05-NOV-2011 01:52

Client ID:

Instrument: gcv5b.i

Sample Info: VPH100/6/12/4

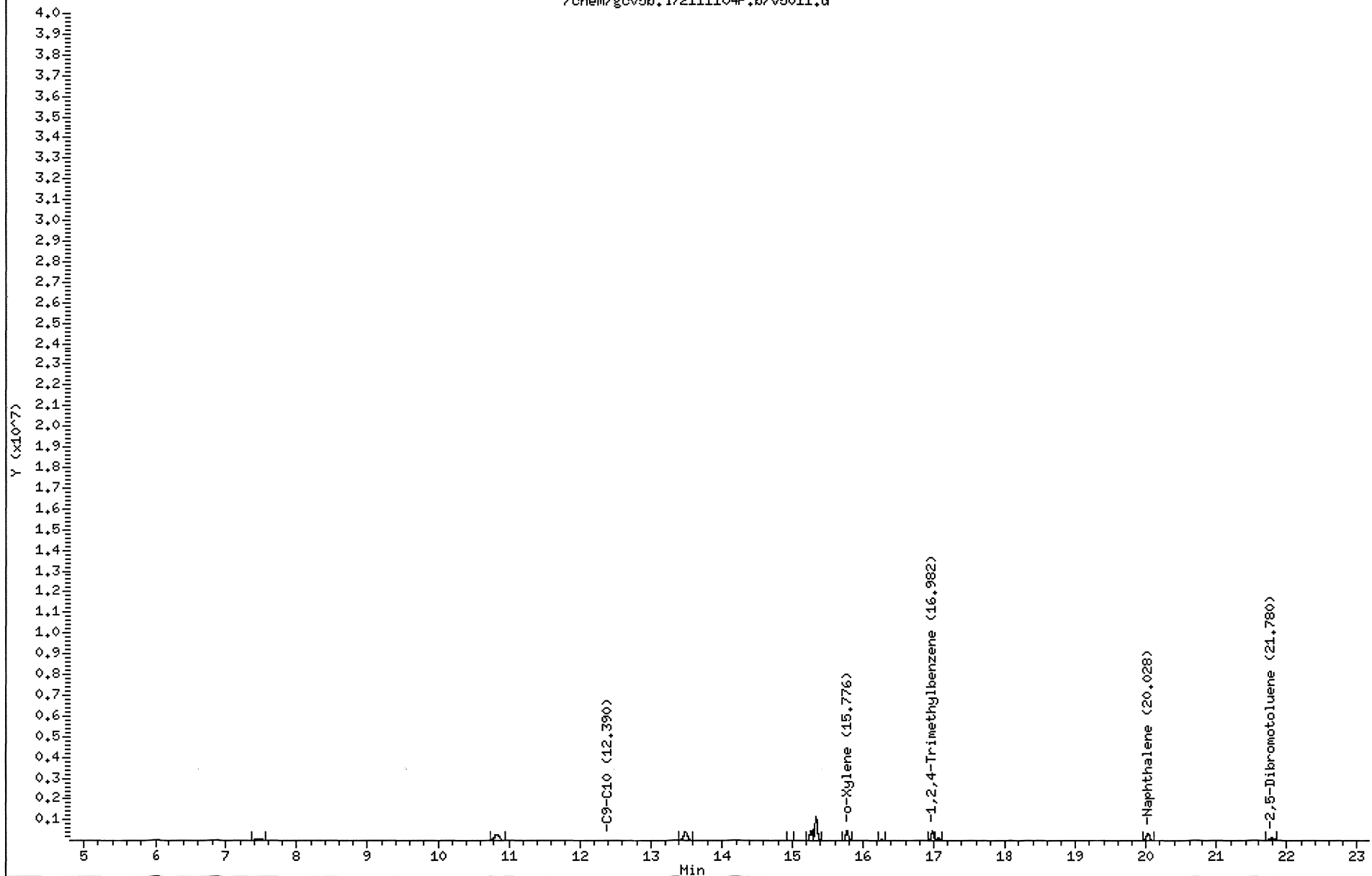
Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

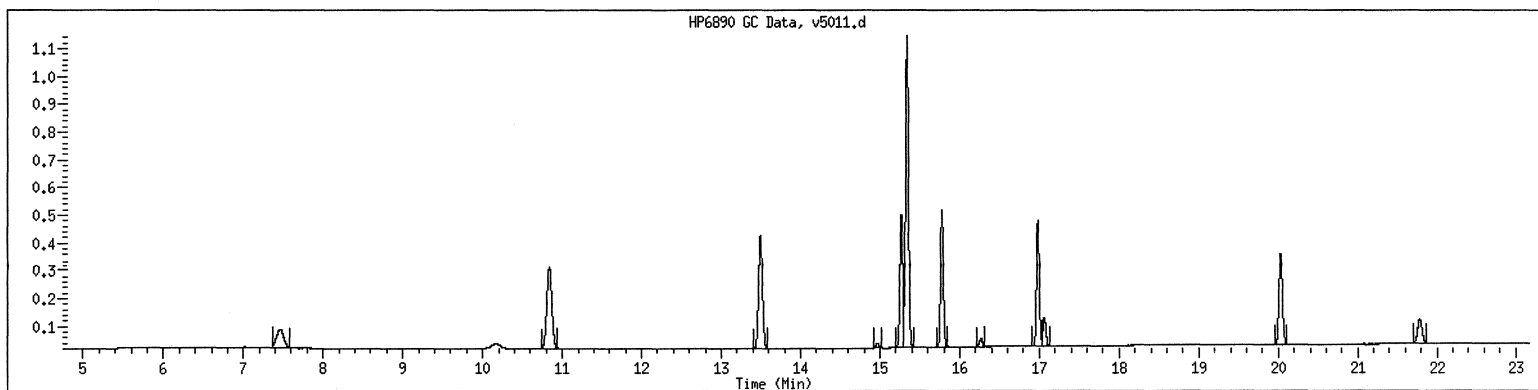
/chem/gcv5b.i/2111104P.b/v5011.d



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH100/6/12/4 SampleType : CALIB_5
Injection Date: 11/05/2011 01:52 Instrument : gcv5b.i
Operator : JAR
Sample Info : VPH100/6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

RECOVERY REPORT

Client Name: Client SDG: 2111104P
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: ICV6/12/5
Level: MED Operator: JAR
Data Type: GC MULTI COMP SampleType: LCS
SpikeList File: aromatic1.spk Quant Type: ESTD
Sublist File: aromatic.sub
Method File: /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
6 o-Xylene	50.0	51.2	102.42	70-130
7 1,2,4-Trimethylbenzene	50.0	52.8	105.56	70-130
M 9 C9-C10	50.0	52.8	105.56	70-130

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 10 2,5-Dibromotoluene	50.0	51.3	102.55	60-140

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111104P.b/v5013.d
 Lab Smp Id: ICV6/12/5
 Inj Date : 05-NOV-2011 02:51
 Operator : JAR
 Smp Info : ICV6/12/5
 Misc Info :
 Comment :
 Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
 Meth Date : 07-Nov-2011 10:04 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 50.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5b.i
 Quant Type: ESTD
 Cal File: v5011.d
 QC Sample: LCS
 Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariab

Name	Value	Description
DF	50.00000	Dilution Factor
Uf	5.00000	Correction factor
Vt	1.00000	Volume of final extract (uL) (1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	5.00000	Weigth of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/Kg)
6 o-Xylene	15.775	15.776	-0.001	694928	51.2117	2560
7 1,2,4-Trimethylbenzene	16.980	16.982	-0.002	634872	52.7787	2640
M 9 C9-C10				634872	52.7787	2640
8 Naphthalene	20.027	20.028	-0.001	569432	55.9022	2800
\$ 10 2,5-Dibromotoluene	21.777	21.780	-0.003	358526	51.2761	2560

Date : 05-NOV-2011 02:51

Client ID:

Instrument: gcv5b.i

Sample Info: ICV6/12/5

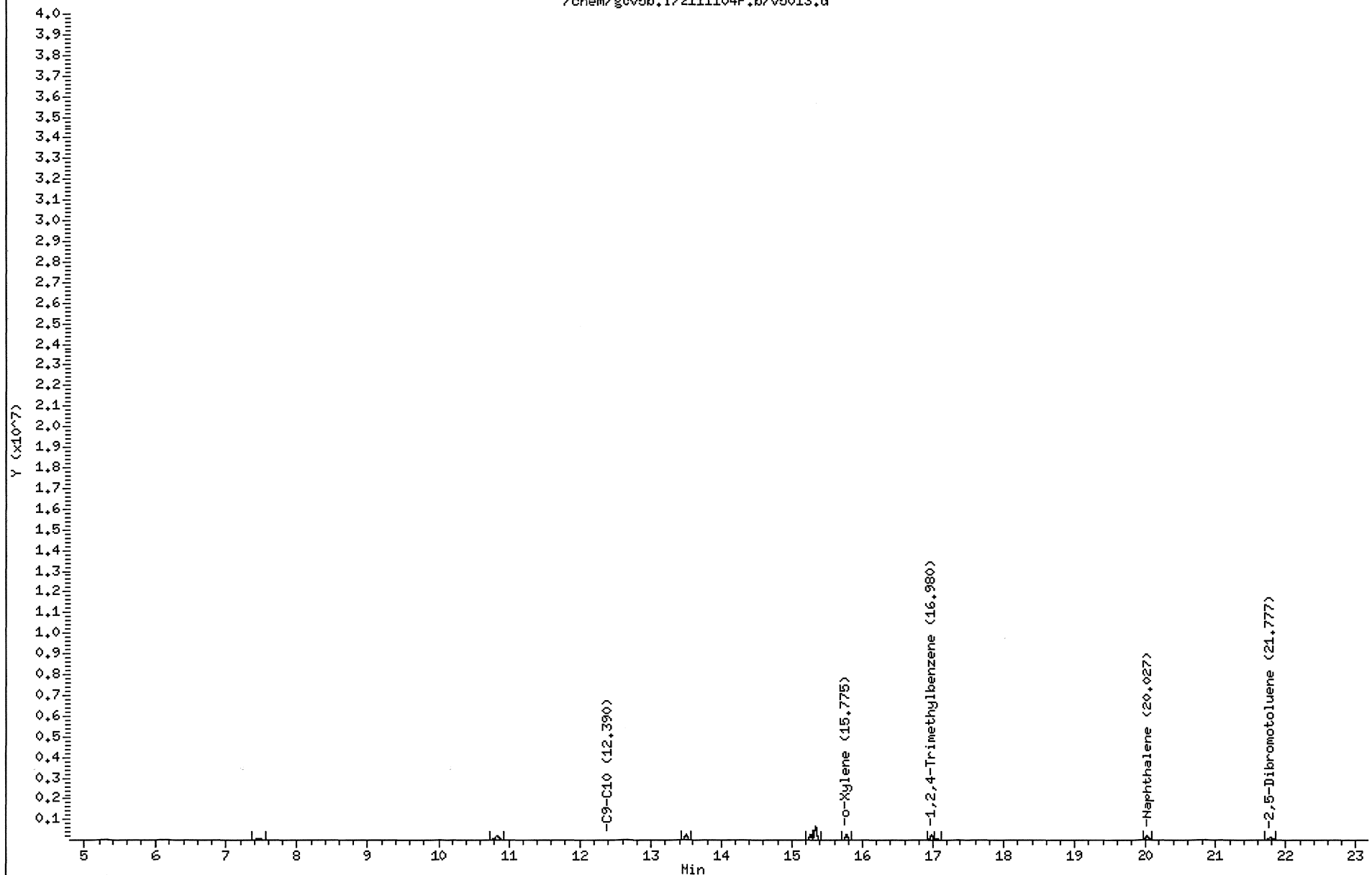
Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

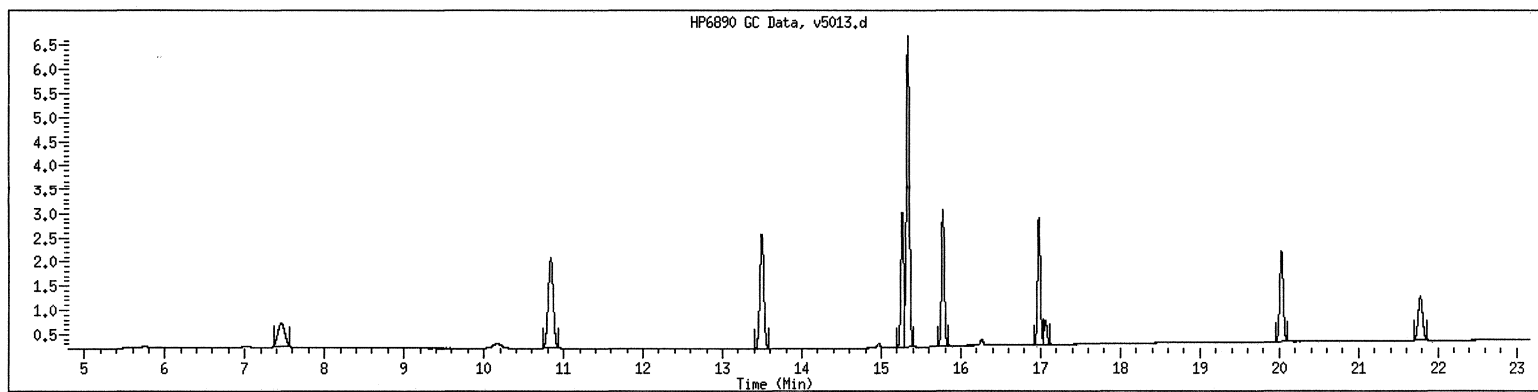
/chem/gcv5b.i/2111104P.b/v5013.d



211103124 212

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : ICV6/12/5 SampleType : LCS
Injection Date: 11/05/2011 02:51 Instrument : gcv5b.i
Operator : JAR
Sample Info : ICV6/12/5
Misc Info :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Dilution : 50.0
Matrix : SOIL
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcv5b.i Injection Date: 07-NOV-2011 11:22
Lab File ID: v5001.d Init. Cal. Date(s): 05-OCT-2011 05-NOV-2011
Analysis Type: SOIL Init. Cal. Times: 17:26 01:52
Lab Sample ID: VPH6/12/4 Quant Type: ESTD
Method: /var/chem/gcv5b.i/2111107.b/PIDMVPH.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	MIN %D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
6 o-Xylene	13570	14032	0.010	-3.40445	25.00000	Averaged
7 1,2,4-Trimethylbenzene	12029	12938	0.010	-7.55906	25.00000	Averaged
IM 9 C9-C10	12029	12938	0.010	-7.55906	25.00000	Averaged
8 Naphthalene	10186	10852	0.010	-6.53786	25.00000	Averaged
10 2,5-Dibromotoluene	6992	7243	0.010	-3.59117	30.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 5.73032
Maximun Average %D/Drift = 25.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5001.d
 Lab Smp Id: VPH6/12/4
 Inj Date : 07-NOV-2011 11:22
 Operator : JAR
 Smp Info : VPH6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
 Meth Date : 08-Nov-2011 13:26 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 50.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5b.i
 Quant Type: ESTD
 Cal File: v5011.d
 Continuing Calibration Sample
 Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariab

Name	Value	Description
DF	50.00000	Dilution Factor
Uf	5.00000	Correction factor
Vt	1.00000	Volume of final extract (uL) (1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
6 o-Xylene	15.775	15.775	0.000	701584	50.0000	51.7
7 1,2,4-Trimethylbenzene	16.981	16.981	0.000	646912	50.0000	53.8
M 9 C9-C10				646912	50.0000	53.8
8 Naphthalene	20.027	20.027	0.000	542610	50.0000	53.3
\$ 10 2,5-Dibromotoluene	21.778	21.778	0.000	362158	50.0000	51.8

Date : 07-NOV-2011 11:22

Client ID:

Instrument: gcv5b.i

Sample Info: VPH6/12/4

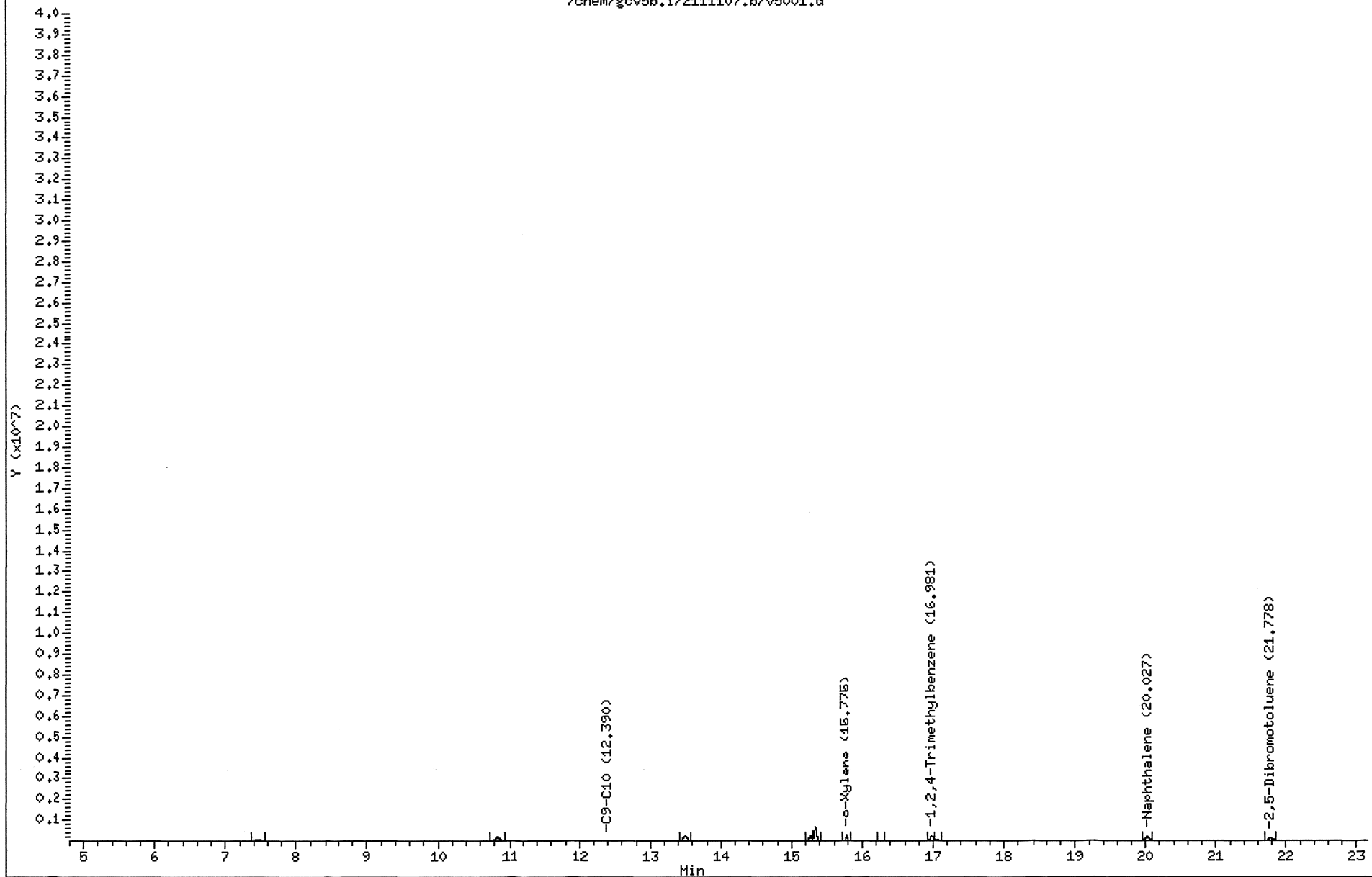
Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

/chem/gcv5b.i/2111107.b/v5001.d



GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcv5b.i Injection Date: 07-NOV-2011 16:16
 Lab File ID: v5011.d Init. Cal. Date(s): 05-OCT-2011 05-NOV-2011
 Analysis Type: SOIL Init. Cal. Times: 17:26 01:52
 Lab Sample ID: VPH6/12/4 Quant Type: ESTD
 Method: /var/chem/gcv5b.i/2111107.b/PIDMVPH.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	MIN %D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
6 o-Xylene	13570	13412	0.010	1.16027	25.00000	Averaged
7 1,2,4-Trimethylbenzene	12029	13121	0.010	-9.07507	25.00000	Averaged
M 9 C9-C10	12029	13121	0.010	-9.07507	25.00000	Averaged
8 Naphthalene	10186	10461	0.010	-2.69817	25.00000	Averaged
\$ 10 2,5-Dibromotoluene	6992	7139	0.010	-2.10262	30.00000	Averaged

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 4.82224
 Maximun Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5011.d
 Lab Smp Id: VPH6/12/4
 Inj Date : 07-NOV-2011 16:16
 Operator : JAR
 Smp Info : VPH6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
 Meth Date : 08-Nov-2011 13:32 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 50.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5b.i

Quant Type: ESTD

Cal File: v5011.d

Continuing Calibration Sample

Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariab

Name	Value	Description
DF	50.00000	Dilution Factor
Uf	5.00000	Correction factor
Vt	1.00000	Volume of final extract (uL) (1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	5.00000	Weigth of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
6 o-Xylene	15.780	15.780	0.000	670613	50.0000	49.4
7 1,2,4-Trimethylbenzene	16.986	16.986	0.000	656030	50.0000	54.5
M 9 C9-C10				656030	50.0000	54.5
8 Naphthalene	20.036	20.036	0.000	523054	50.0000	51.3
\$ 10 2,5-Dibromotoluene	21.788	21.788	0.000	356954	50.0000	51.0

Data File: /chem/gcv5b.i/2111107.b/v5011.d

Date : 07-NOV-2011 16:16

Client ID:

Instrument: gcv5b.i

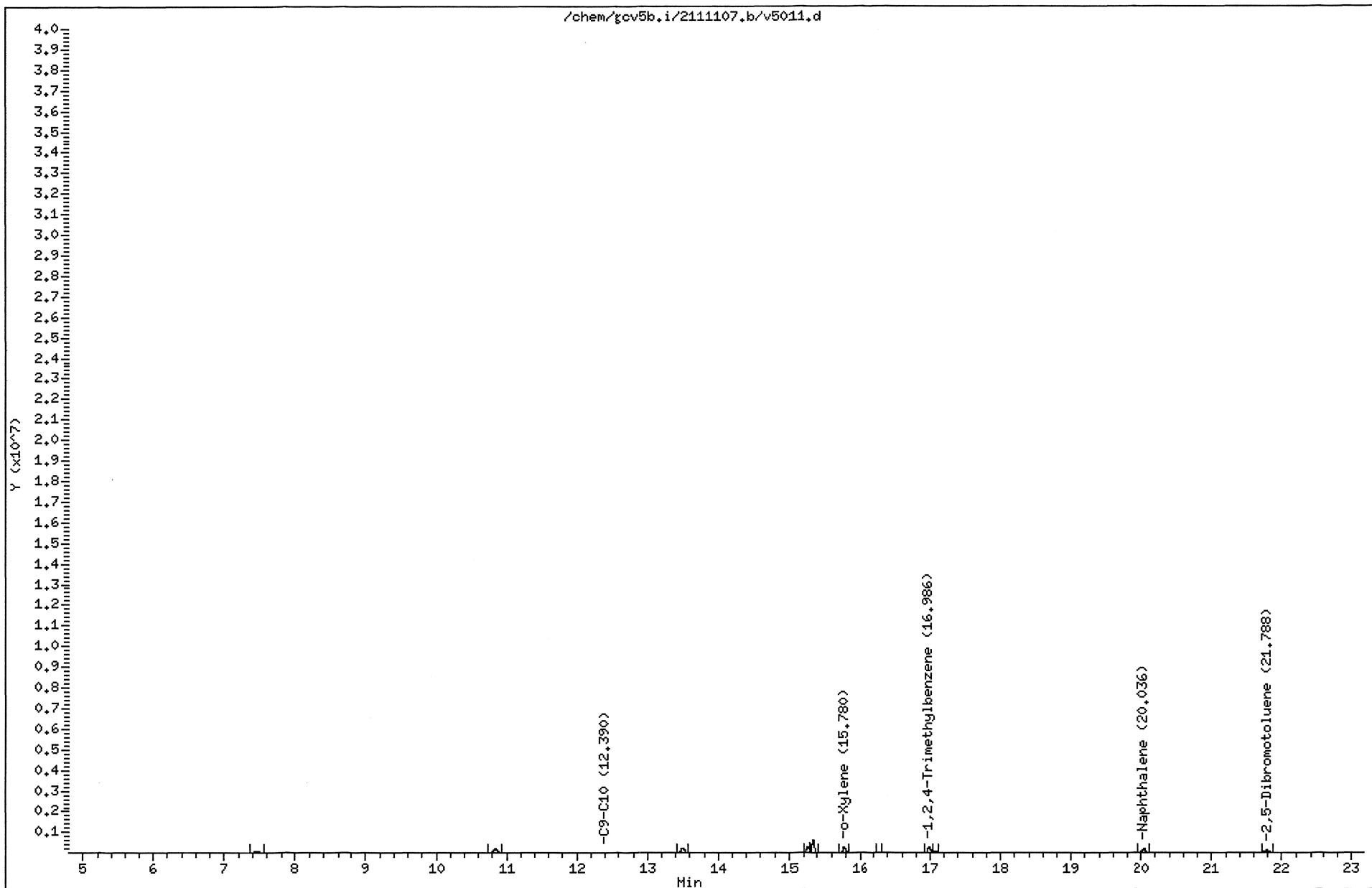
Sample Info: VPH6/12/4

Operator: JAR

Volume Injected (uL): 1.0

Column diameter: 0.53

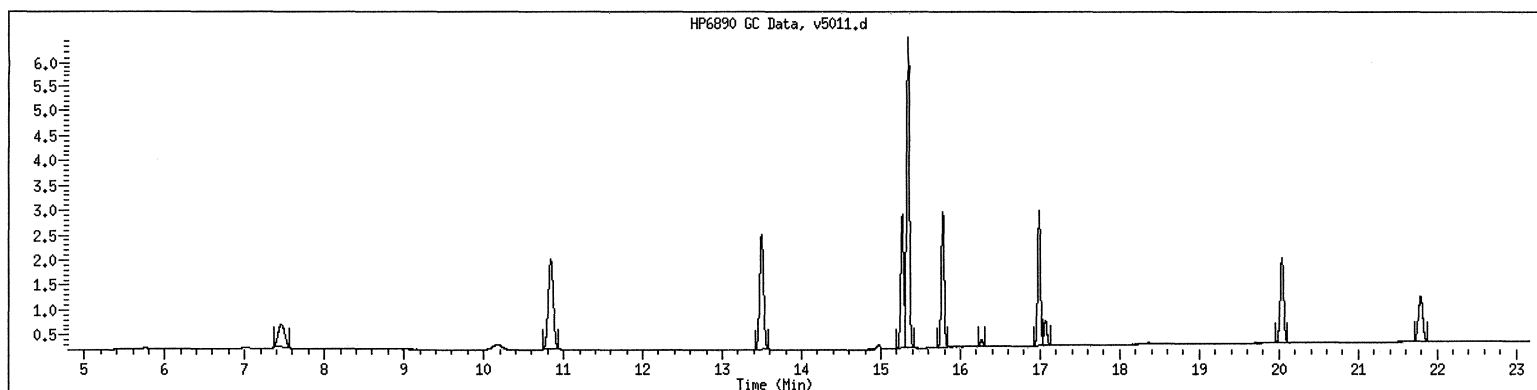
Column phase: DB-624-30



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH6/12/4 SampleType : CCALIB_3
Injection Date: 11/07/2011 16:16 Instrument : gcv5b.i
Operator : JAR
Sample Info : VPH6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 50.0
Matrix : SOIL
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcv5b.i Injection Date: 07-NOV-2011 23:22
Lab File ID: v5021.d Init. Cal. Date(s): 05-OCT-2011 05-NOV-2011
Analysis Type: WATER Init. Cal. Times: 17:26 01:52
Lab Sample ID: VPH6/12/4 Quant Type: ESTD
Method: /var/chem/gcv5b.i/2111107.b/PIDMVPH.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
6 o-Xylene	13570	13889	0.010	-2.35270	25.00000	Averaged
7 1,2,4-Trimethylbenzene	12029	12645	0.010	-5.11962	25.00000	Averaged
M 9 C9-C10	12029	12645	0.010	-5.11962	25.00000	Averaged
8 Naphthalene	10186	11058	0.010	-8.56157	25.00000	Averaged
9 10 2,5-Dibromotoluene	6992	7984	0.010	-14.18718	30.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 7.06814
Maximun Average %D/Drift = 25.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5021.d
 Lab Smp Id: VPH6/12/4
 Inj Date : 07-NOV-2011 23:22
 Operator : JAR
 Smp Info : VPH6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
 Meth Date : 08-Nov-2011 13:32 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5b.i

Quant Type: ESTD

Cal File: v5011.d

Continuing Calibration Sample

Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
6 o-Xylene	15.777	15.777	0.000	694448	50.0000	51.2
7 1,2,4-Trimethylbenzene	16.983	16.983	0.000	632240	50.0000	52.6
M 9 C9-C10				632240	50.0000	52.6
8 Naphthalene	20.029	20.029	0.000	552917	50.0000	54.3
\$ 10 2,5-Dibromotoluene	21.781	21.781	0.000	399202	50.0000	57.1

Date : 07-NOV-2011 23:22

Client ID:

Instrument: gov5b.i

Sample Info: VPH6/12/4

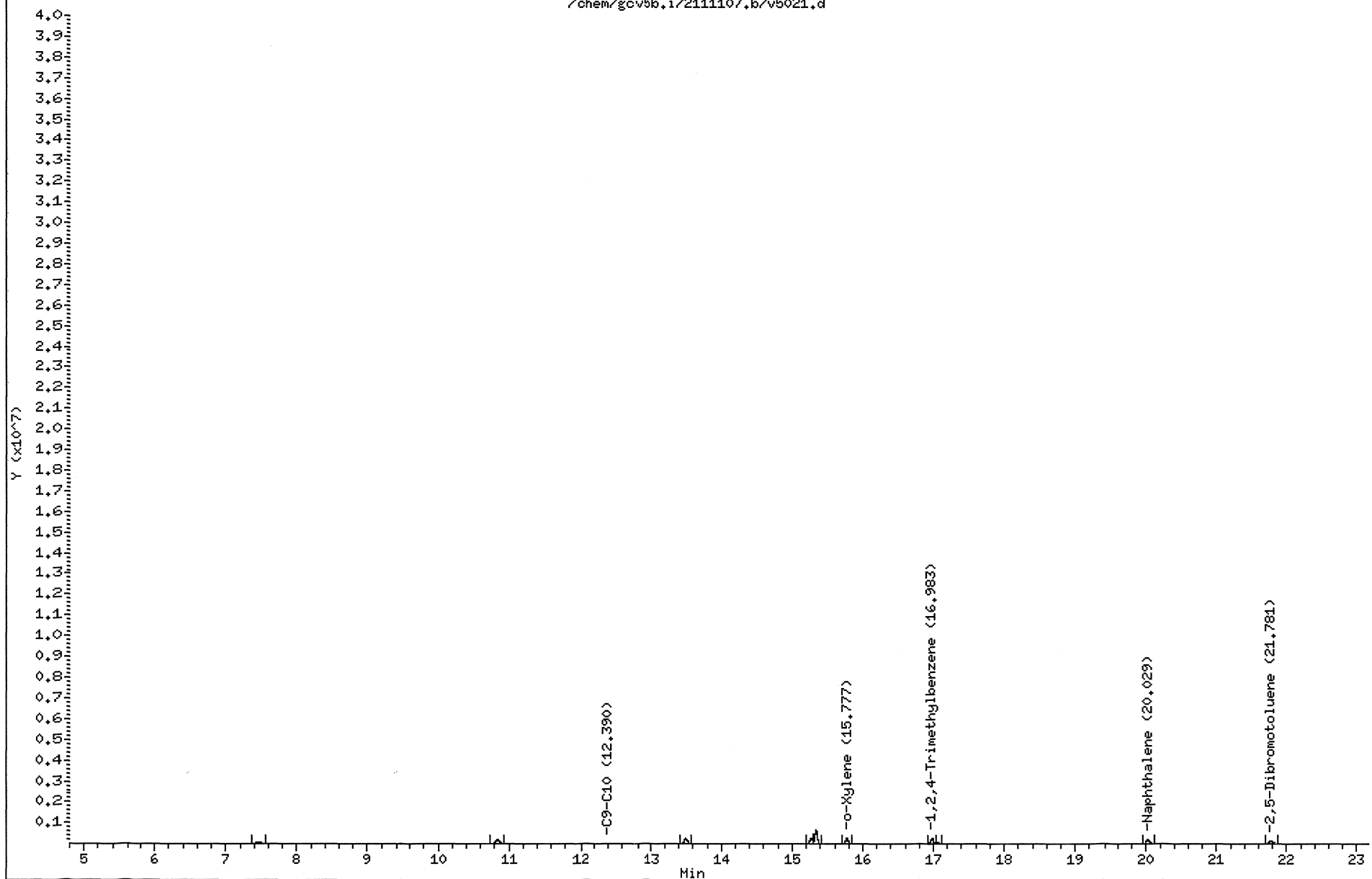
Operator: JAR

Volume Injected (uL): 1.0

Column diameter: 0.53

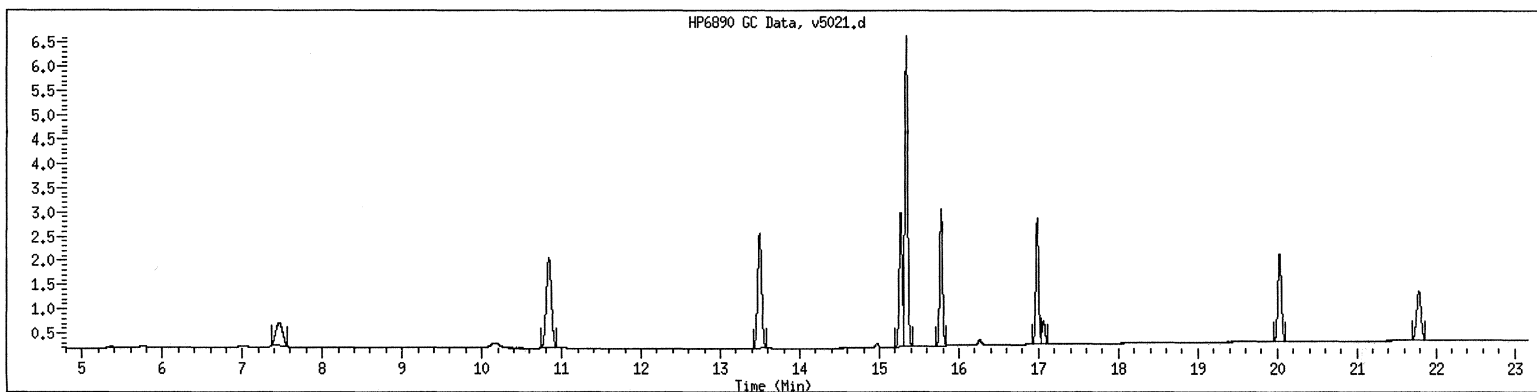
Column phase: DB-624-30

/chem/gov5b.i/2111107.b/v5021.d



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH6/12/4 SampleType : CCALIB_3
Injection Date: 11/07/2011 23:22 Instrument : gcv5b.i
Operator : JAR
Sample Info : VPH6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcv5b.i Injection Date: 08-NOV-2011 01:49
Lab File ID: v5026.d Init. Cal. Date(s): 05-OCT-2011 05-NOV-2011
Analysis Type: WATER Init. Cal. Times: 17:26 01:52
Lab Sample ID: VPH6/12/4 Quant Type: ESTD
Method: /var/chem/gcv5b.i/2111107.b/PIDMVP.H.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	MIN %D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
6 o-Xylene	13570	15457	0.010	-13.90535	25.00000	Averaged
7 1,2,4-Trimethylbenzene	12029	14145	0.010	-17.58869	25.00000	Averaged
M 9 C9-C10	12029	14145	0.010	-17.58869	25.00000	Averaged
8 Naphthalene	10186	11684	0.010	-14.70319	25.00000	Averaged
5 10 2,5-Dibromotoluene	6992	8054	0.010	-15.19175	30.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 15.79553
Maximun Average %D/Drift = 25.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5026.d
Lab Smp Id: VPH6/12/4
Inj Date : 08-NOV-2011 01:49
Operator : JAR
Smp Info : VPH6/12/4
Misc Info :
Comment :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Meth Date : 08-Nov-2011 13:32 jar
Cal Date : 05-NOV-2011 01:52
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Processing Host: org.gcal.com
Inst ID: gcv5b.i
Quant Type: ESTD
Cal File: v5011.d
Continuing Calibration Sample
Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
6 o-Xylene	15.777	15.777	0.000	772831	50.0000	57.0
7 1,2,4-Trimethylbenzene	16.983	16.983	0.000	707235	50.0000	58.8
M 9 C9-C10				707235	50.0000	58.8
8 Naphthalene	20.028	20.028	0.000	584197	50.0000	57.4
\$ 10 2,5-Dibromotoluene	21.781	21.781	0.000	402714	50.0000	57.6

Date : 08-NOV-2011 01:49

Client ID:

Instrument: gov5b.i

Sample Info: VPH6/12/4

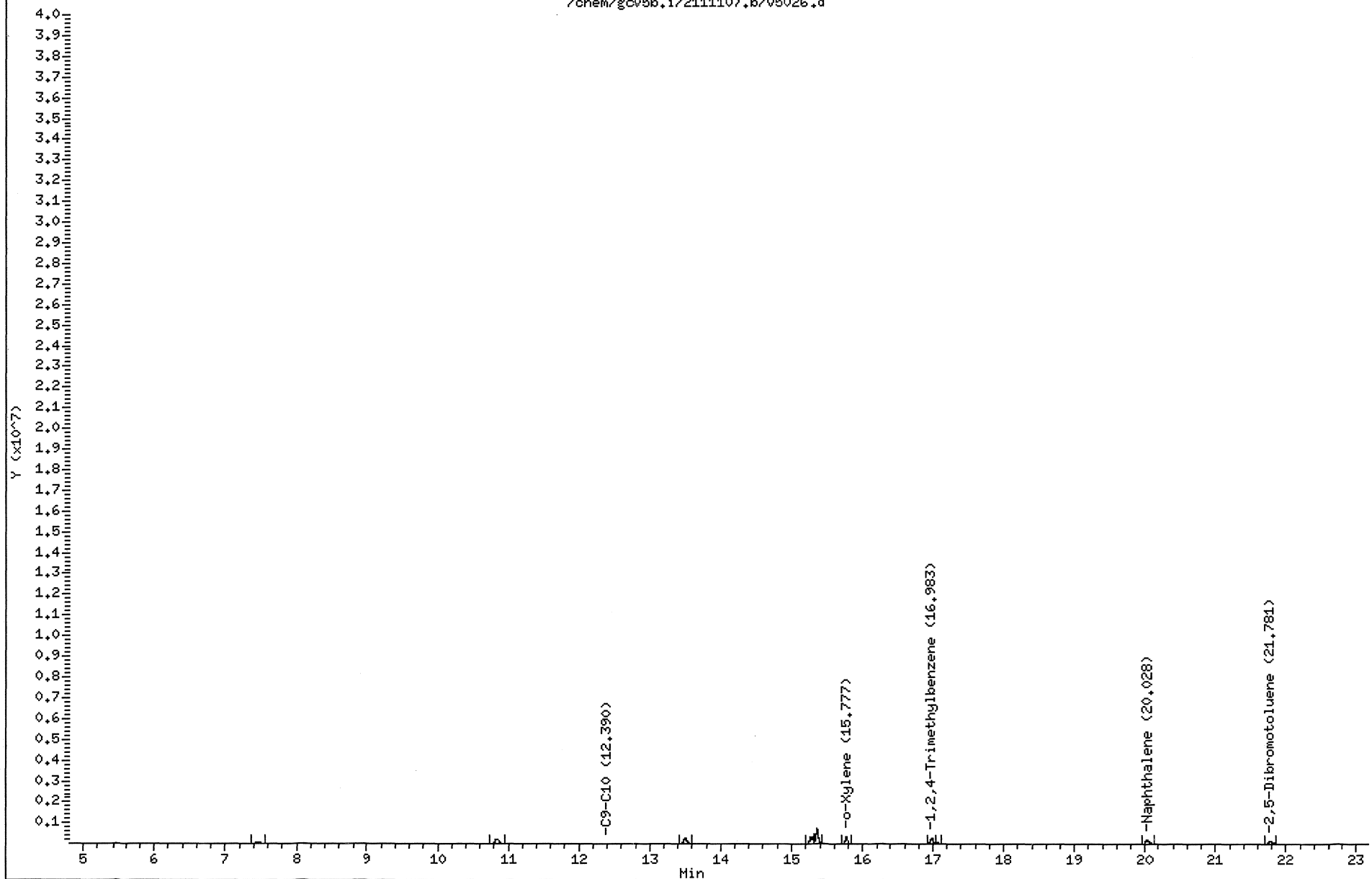
Operator: JAR

Volume Injected (uL): 1.0

Column diameter: 0.53

Column phase: DB-624-30

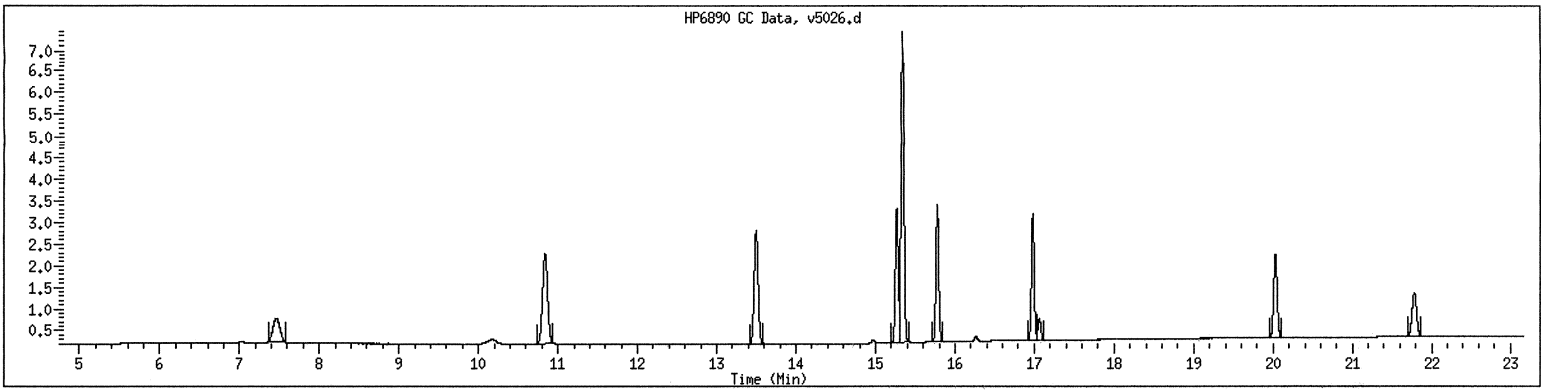
/chem/gov5b.i/2111107.b/v5026.d



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH6/12/4 SampleType : CCALIB_3
Injection Date: 11/08/2011 01:49 Instrument : gcv5b.i
Operator : JAR
Sample Info : VPH6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcv5b.i Injection Date: 08-NOV-2011 12:51
Lab File ID: v5031.d Init. Cal. Date(s): 05-OCT-2011 05-NOV-2011
Analysis Type: WATER Init. Cal. Times: 17:26 01:52
Lab Sample ID: vph6/12/4 Quant Type: ESTD
Method: /var/chem/gcv5b.i/2111107.b/PIDMVP.H.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	MIN %D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
6 o-Xylene	13570	15321	0.010	-12.90668	25.00000	Averaged
7 1,2,4-Trimethylbenzene	12029	13948	0.010	-15.95659	25.00000	Averaged
M 9 C9-C10	12029	13948	0.010	-15.95659	25.00000	Averaged
8 Naphthalene	10186	12103	0.010	-18.81672	25.00000	Averaged
\$ 10 2,5-Dibromotoluene	6992	8252	0.010	-18.02464	30.00000	Averaged

Average %D / Drift Results.
=====

Calculated Average %D/Drift =	16.33224
Maximun Average %D/Drift =	25.00000

* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5031.d
 Lab Smp Id: vph6/12/4
 Inj Date : 08-NOV-2011 12:51
 Operator : JAR
 Smp Info : vph6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
 Meth Date : 08-Nov-2011 13:19 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5b.i

Quant Type: ESTD

Cal File: v5011.d

Continuing Calibration Sample

Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
6 o-Xylene	15.782	15.782	0.000	766055	50.0000	56.4
7 1,2,4-Trimethylbenzene	16.988	16.988	0.000	697418	50.0000	58.0
M 9 C9-C10				697418	50.0000	58.0
8 Naphthalene	20.039	20.039	0.000	605147	50.0000	59.4
\$ 10 2,5-Dibromotoluene	21.793	21.793	0.000	412617	50.0000	59.0

Data File: /chem/gov5b.i/2111107.b/v5031.d

Page 1

Date : 08-NOV-2011 12:51

Client ID:

Instrument: gov5b.i

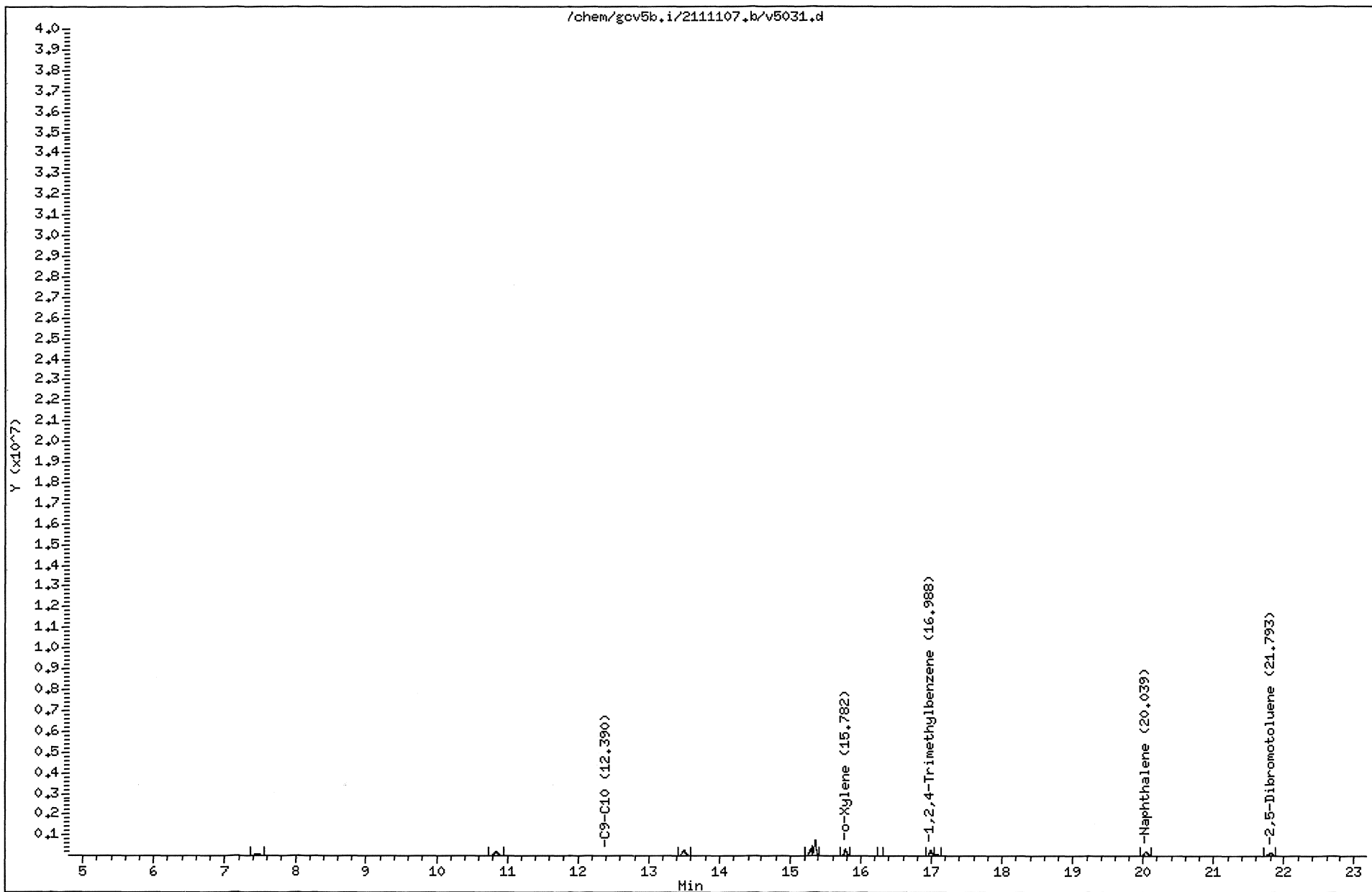
Sample Info: vph6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

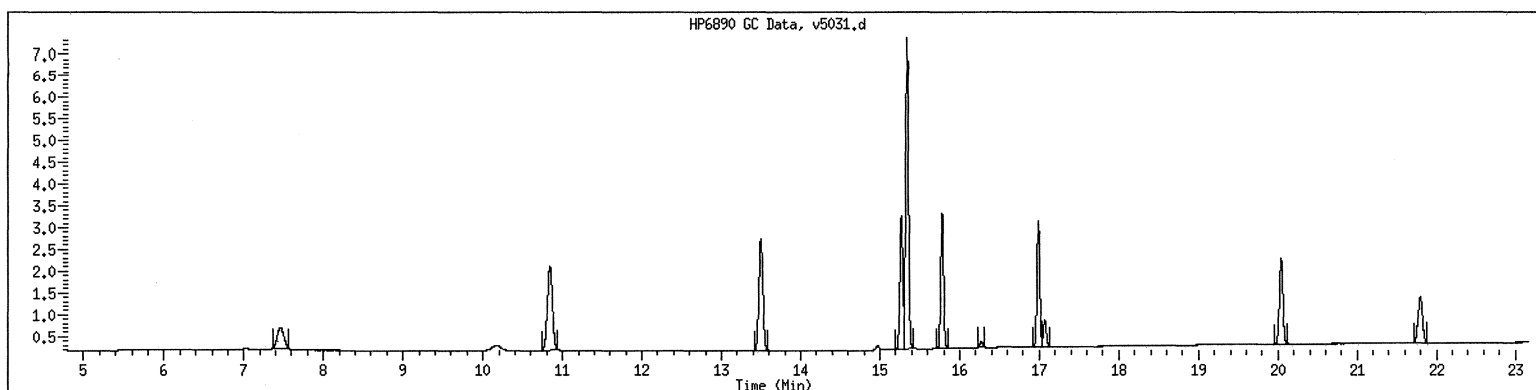
Column diameter: 0.53



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : vph6/12/4 SampleType : CCALIB_3
Injection Date: 11/08/2011 12:51 Instrument : gcv5b.i
Operator : JAR
Sample Info : vph6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-NOV-2011 20:57
 End Cal Date : 05-NOV-2011 01:52
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
 Cal Date : 08-Nov-2011 13:21 jar
 Curve Type : Average

Calibration File Names:

- Level 1: /var/chem/gcv5a.i/2111104p.b/v5003.d
- Level 2: /var/chem/gcv5a.i/2111104p.b/v5005.d
- Level 3: /var/chem/gcv5a.i/2111104p.b/v5007.d
- Level 4: /var/chem/gcv5a.i/2111104p.b/v5009.d
- Level 5: /var/chem/gcv5a.i/2111104p.b/v5011.d
- Level 6: /var/chem/gcv5a.i/2111104p.b/v5001.d

Compound	10.000 Level 1	20.000 Level 2	50.000 Level 3	80.000 Level 4	100.000 Level 5	5.000 Level 6	RRF	% RSD
1 n-Pentane	10671	10211	8851	7571	6259	10437	9000	19.814
M 2 C5-C8	10727	11023	9557	8858	7420	11346	9822	15.343
3 2-Methyl Pentane	10850	12110	10178	9578	7894	12016	10438	15.288
4 MTBE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 5 C9-C12	5516	5527	5414	6329	6009	3831	5437	15.859
6 Isooctane	10661	10749	9640	9426	8105	11583	10027	12.254
7 Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
8 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 n-Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
10 Ethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 m,p-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
12 o-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 n-Decane	5176	5085	5107	6409	6110	5443	5555	10.232
! 14 1,2,4-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 n-Butylcyclohexane	5856	5968	5721	6249	5908	6049	5958	3.021
16 Naphthalene	9352	9011	8945	8433	8525	+++++	8853	4.247
!\$ 17 2,5-Dibromotoluene	3190	3009	3100	2787	2825	3028	2990	5.238

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111104p.b/v5001.d
 Lab Smp Id: VPH05/6/12/4
 Inj Date : 04-NOV-2011 20:57
 Operator : JAR
 Smp Info : VPH05/6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
 Meth Date : 07-Nov-2011 10:29 jar
 Cal Date : 04-NOV-2011 20:57
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5a.i
 Quant Type: ESTD
 Cal File: v5001.d
 Calibration Sample, Level: 6
 Compound Sublist: aliphaticl+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
M 2 C5-C8				170184	15.0000	16.3
1 n-Pentane	5.268	5.268	0.000	52185	5.00000	5.4 (M1)
3 2-Methyl Pentane	6.485	6.485	0.000	60082	5.00000	5.4 (M1)
6 Isooctane	9.561	9.561	0.000	57917	5.00000	5.4 (M1)
13 n-Decane	15.962	15.962	0.000	27213	5.00000	5.2 (M1)
15 n-Butylcyclohexane	16.745	16.745	0.000	30246	5.00000	5.1 (M1)
16 Naphthalene	19.622	19.622	0.000	47160	5.00000	5.3 (M1)
M 5 C9-C12				57459	15.0000	10.3
\$ 17 2,5-Dibromotoluene	21.297	21.297	0.000	151381	50.0000	49.4 (M1)

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Date : 04-NOV-2011 20:57

Client ID:

Instrument: gcv5a.i

Sample Info: VPH05/6/12/4

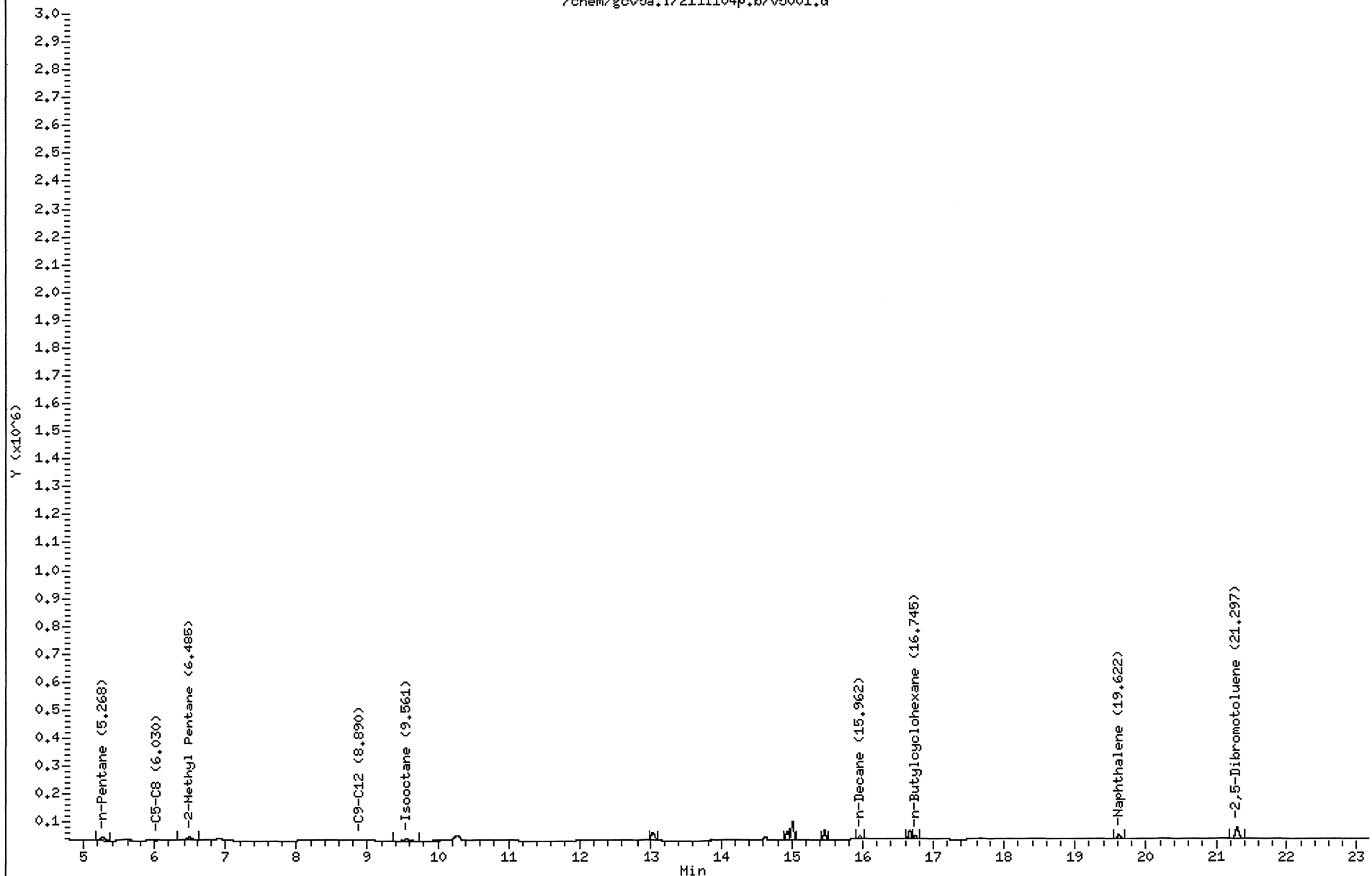
Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

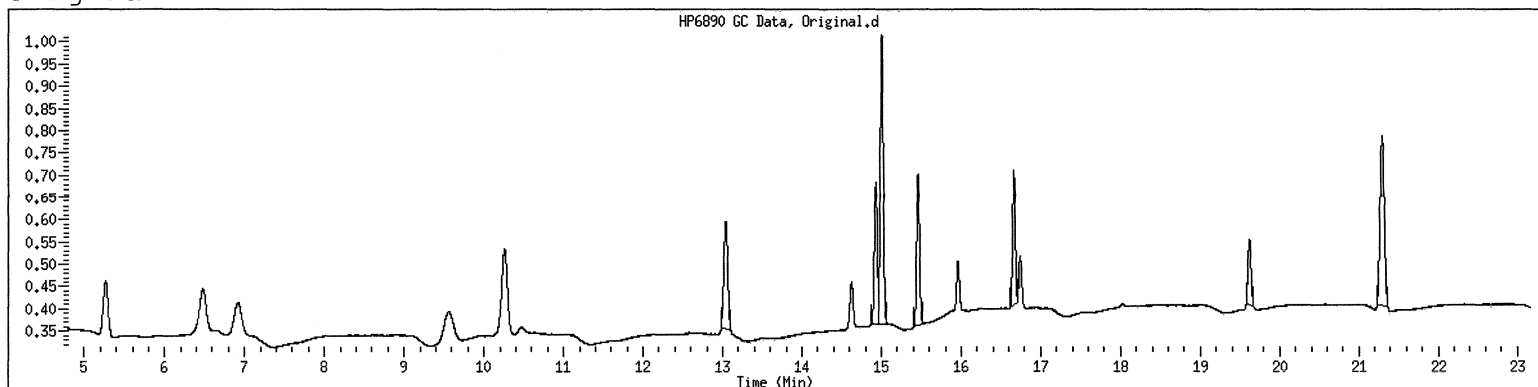
/chem/gcv5a.i/2111104p.b/v5001.d



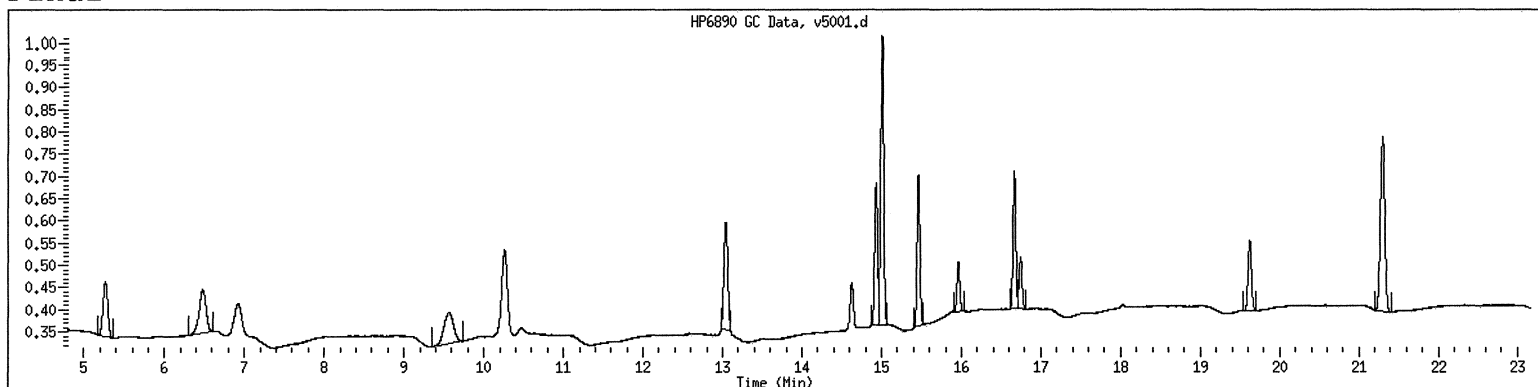
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH05/6/12/4 SampleType : CALIB_6
Injection Date: 11/04/2011 20:57 Instrument : gcv5a.i
Operator : JAR
Sample Info : VPH05/6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111104p.b/v5003.d
Lab Smp Id: VPH10/6/12/4
Inj Date : 04-NOV-2011 21:56
Operator : JAR
Smp Info : VPH10/6/12/4
Misc Info :
Comment :
Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
Meth Date : 07-Nov-2011 10:29 jar
Cal Date : 04-NOV-2011 21:56
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Processing Host: org.gcal.com

Inst ID: gcv5a.i
Quant Type: ESTD
Cal File: v5003.d
Calibration Sample, Level: 1
Compound Sublist: aliphatic1+surr.sub

Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * \text{Vt} / (\text{Vo} * \text{Vi}) * \text{CpndVariable}$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
M 2 C5-C8				321816	30.0000	30.6
1 n-Pentane	5.269	5.269	0.000	106713	10.0000	10.7 (M1)
3 2-Methyl Pentane	6.483	6.483	0.000	108495	10.0000	9.8 (M1)
6 Isooctane	9.565	9.565	0.000	106608	10.0000	10.0 (M1)
13 n-Decane	15.960	15.960	0.000	51759	10.0000	9.9 (M1)
15 n-Butylcyclohexane	16.743	16.743	0.000	58555	10.0000	10 (M1)
16 Naphthalene	19.618	19.618	0.000	93516	10.0000	10.2 (M1)
M 5 C9-C12				110314	20.0000	19.8
\$ 17 2,5-Dibromotoluene	21.292	21.292	0.000	159522	50.0000	51.4 (M1)

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Data File: /chem/gcv5a.i/2111104p,b/v5003.d

Page 1

Date : 04-NOV-2011 21:56

Client ID:

Instrument: gcv5a.i

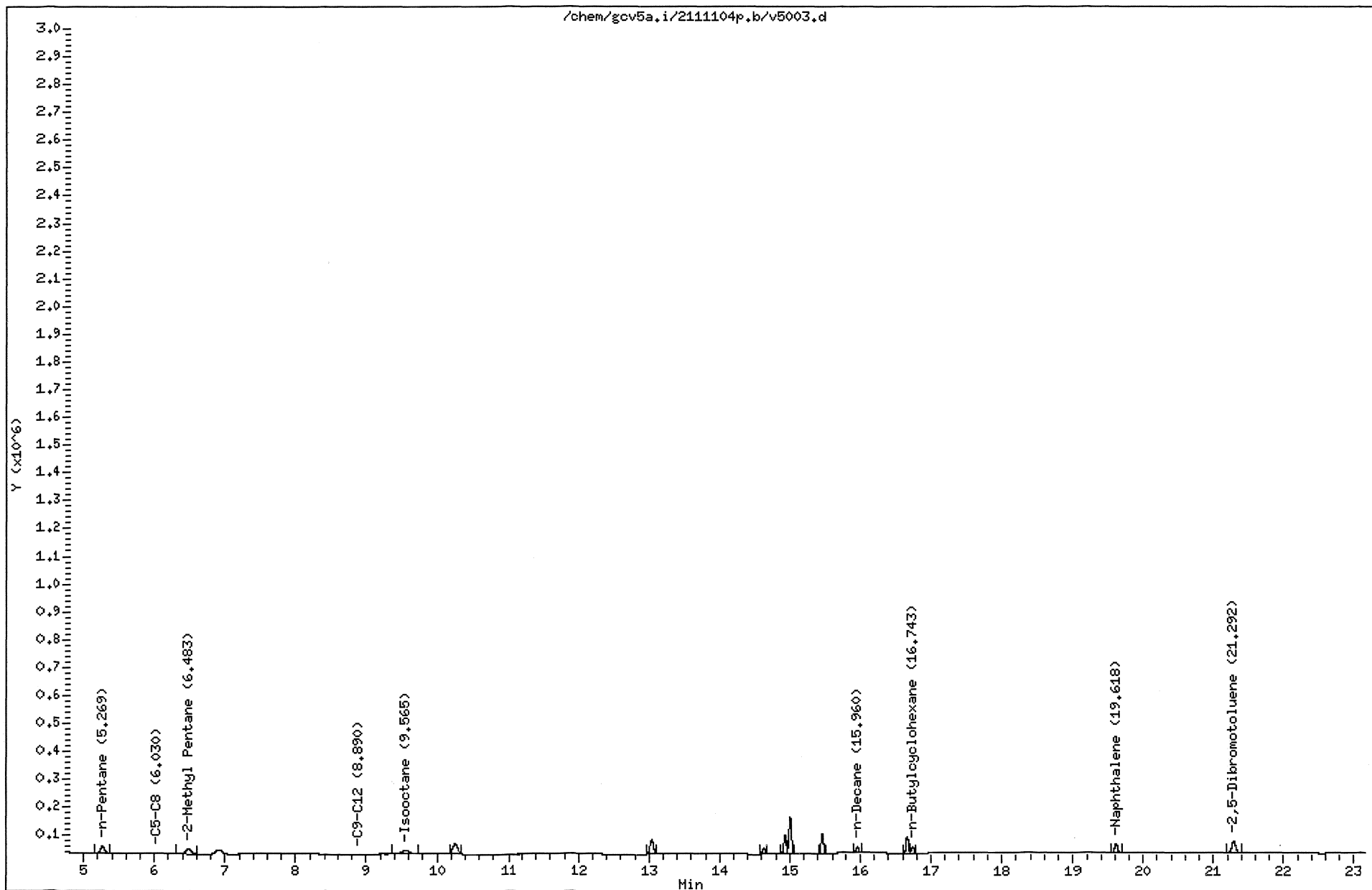
Sample Info: VPH10/6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

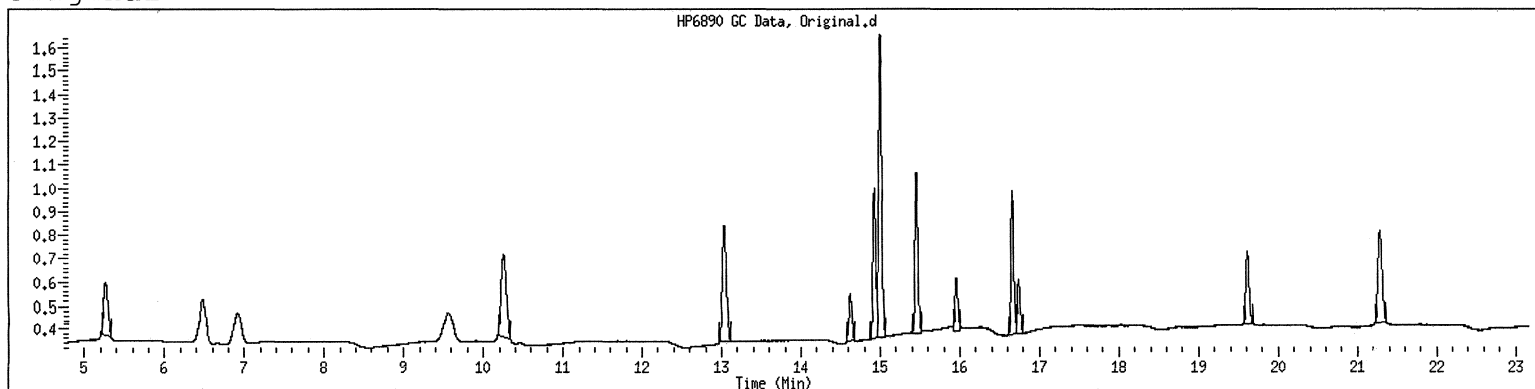


211103124 241

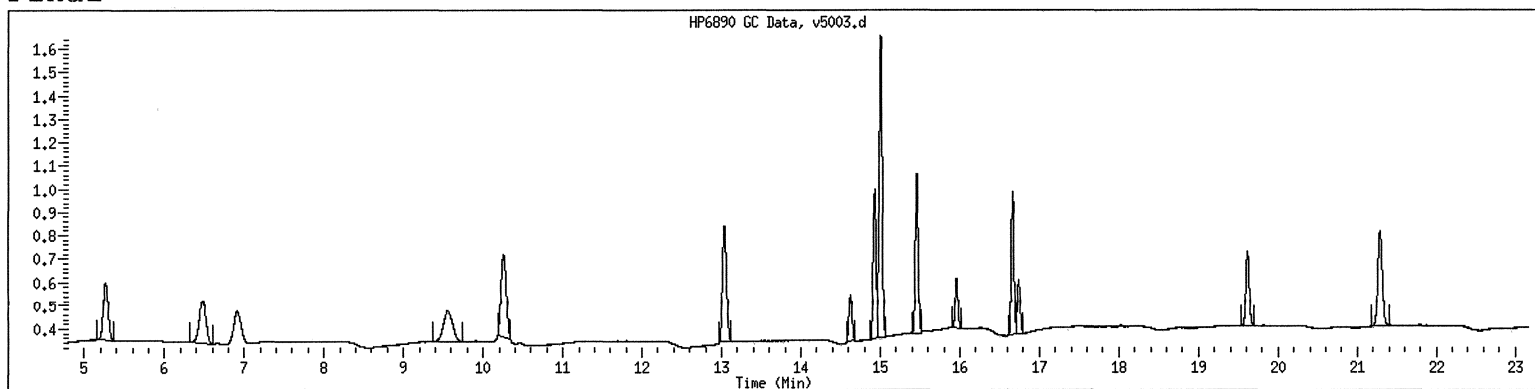
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH10/6/12/4 SampleType : CALIB_1
Injection Date: 11/04/2011 21:56 Instrument : gcv5a.i
Operator : JAR
Sample Info : VPH10/6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111104p.b/v5005.d
Lab Smp Id: VPH20/6/12/4
Inj Date : 04-NOV-2011 22:55
Operator : JAR
Smp Info : VPH20/6/12/4
Misc Info :
Comment :
Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
Meth Date : 07-Nov-2011 10:29 jar
Cal Date : 04-NOV-2011 22:55
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Processing Host: org.gcal.com
Inst ID: gcv5a.i
Quant Type: ESTD
Cal File: v5005.d
Calibration Sample, Level: 2
Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
M 2 C5-C8				661397	60.0000	62.0
1 n-Pentane	5.267	5.267	0.000	204224	20.0000	20.3 (M1)
3 2-Methyl Pentane	6.482	6.482	0.000	242197	20.0000	21.4 (M1)
6 Isooctane	9.563	9.563	0.000	214976	20.0000	20.2 (M1)
13 n-Decane	15.959	15.959	0.000	101700	20.0000	19.5 (M1)
15 n-Butylcyclohexane	16.742	16.742	0.000	119364	20.0000	20.2 (M1)
16 Naphthalene	19.617	19.617	0.000	180224	20.0000	19.8 (M1)
M 5 C9-C12				221064	40.0000	39.8
\$ 17 2,5-Dibromotoluene	21.291	21.291	0.000	150438	50.0000	48.8 (M1)

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Date : 04-NOV-2011 22:55

Client ID:

Instrument: gcv5a.i

Sample Info: WPH20/6/12/4

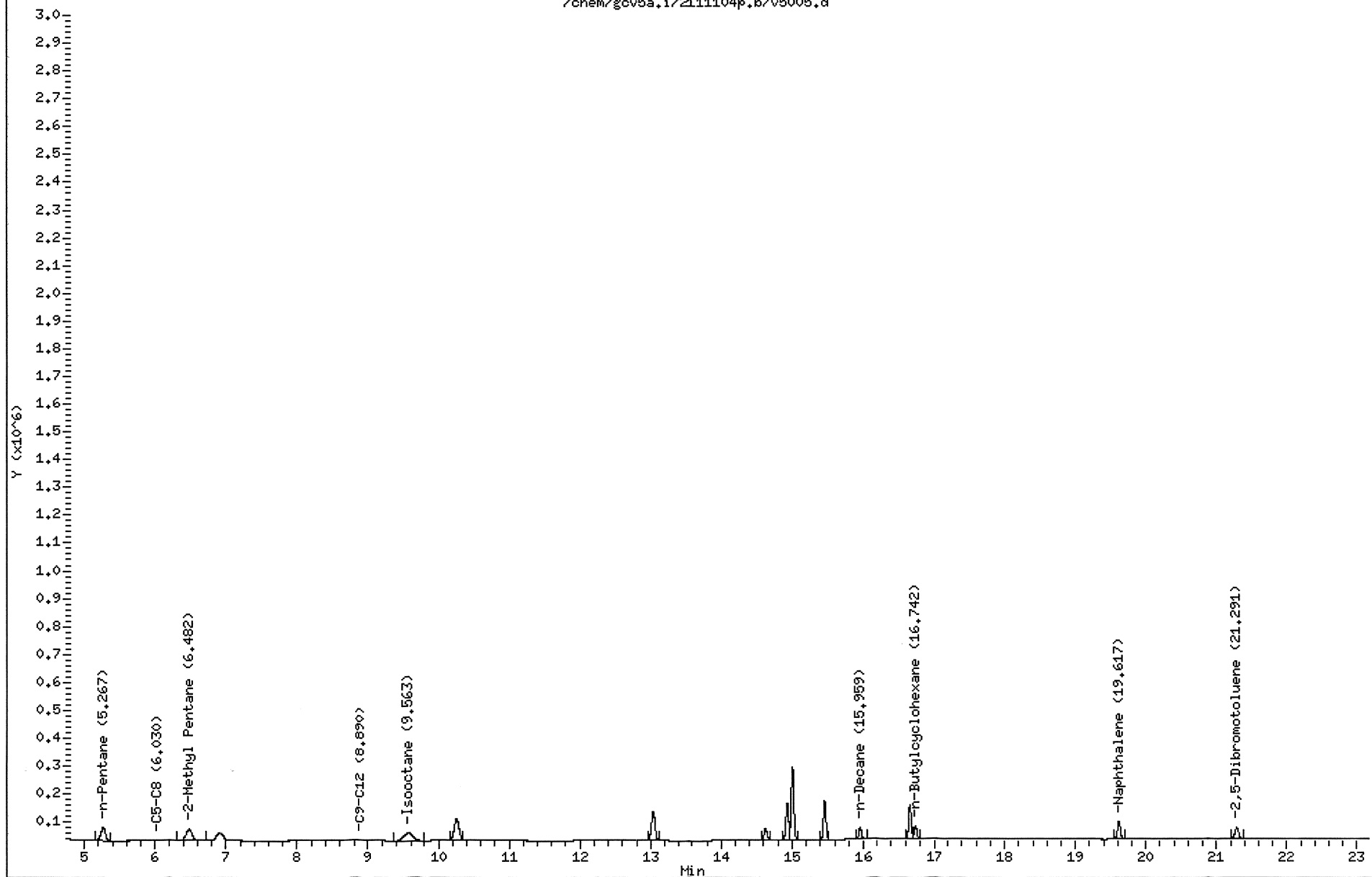
Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

/chem/gcv5a.i/2111104p.b/v5005.d

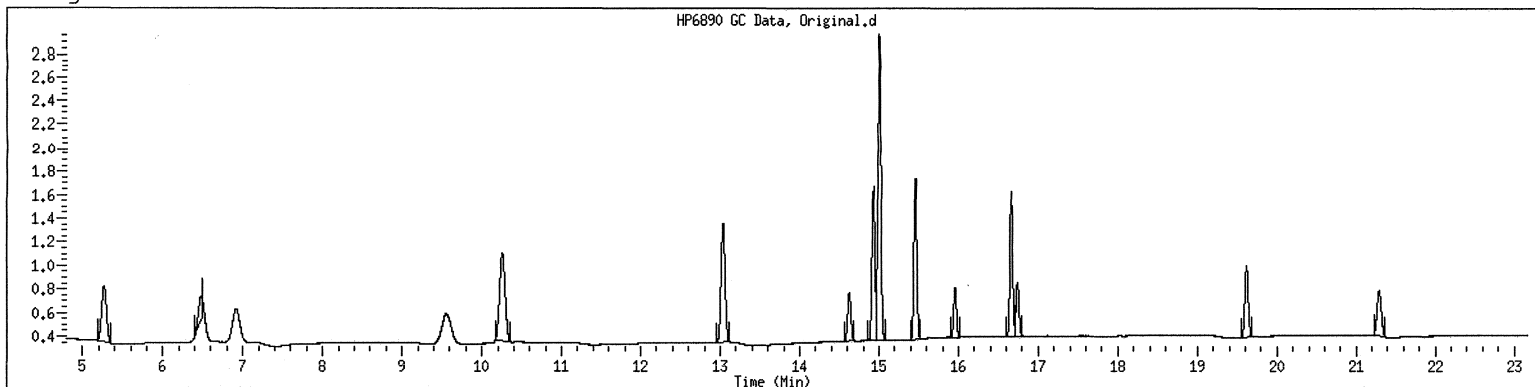


211103124 245

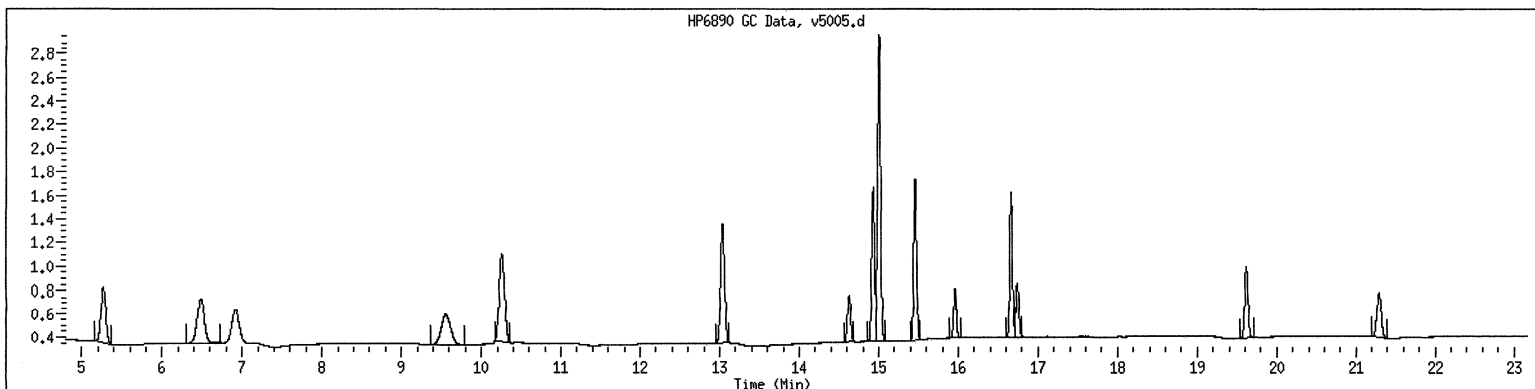
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH20/6/12/4 SampleType : CALIB_2
Injection Date: 11/04/2011 22:55 Instrument : gcv5a.i
Operator : JAR
Sample Info : VPH20/6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111104p.b/v5007.d
Lab Smp Id: VPH50/6/12/4
Inj Date : 04-NOV-2011 23:54
Operator : JAR
Smp Info : VPH50/6/12/4
Misc Info :
Comment :
Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
Meth Date : 07-Nov-2011 10:29 jar
Cal Date : 04-NOV-2011 23:54
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Processing Host: org.gcal.com
Inst ID: gcv5a.i
Quant Type: ESTD
Cal File: v5007.d
Calibration Sample, Level: 3
Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
M 2 C5-C8				1433487	150.000	150
1 n-Pentane	5.265	5.265	0.000	442559	50.0000	50.0 (M1)
3 2-Methyl Pentane	6.481	6.481	0.000	508906	50.0000	50.0 (M1)
6 Isooctane	9.561	9.561	0.000	482022	50.0000	50.0 (M1)
13 n-Decane	15.959	15.959	0.000	255356	50.0000	50.0
15 n-Butylcyclohexane	16.741	16.741	0.000	286054	50.0000	50.0 (M1)
16 Naphthalene	19.615	19.615	0.000	447259	50.0000	50.0
M 5 C9-C12				541410	100.000	100
\$ 17 2,5-Dibromotoluene	21.289	21.289	0.000	154983	50.0000	50.0 (M1)

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Date : 04-NOV-2011 23:54

Client ID:

Instrument: gov5a.i

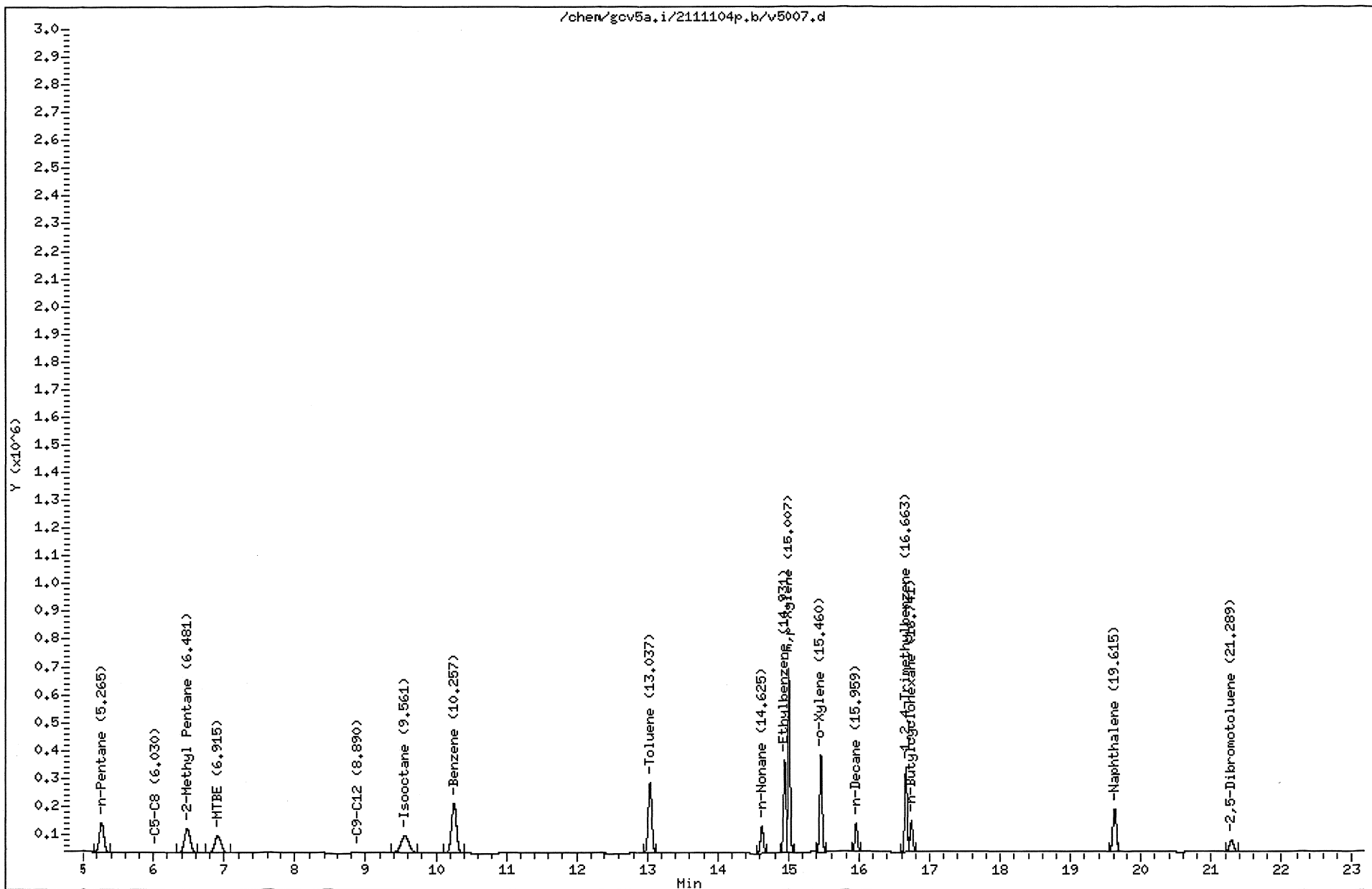
Sample Info: VPH50/6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

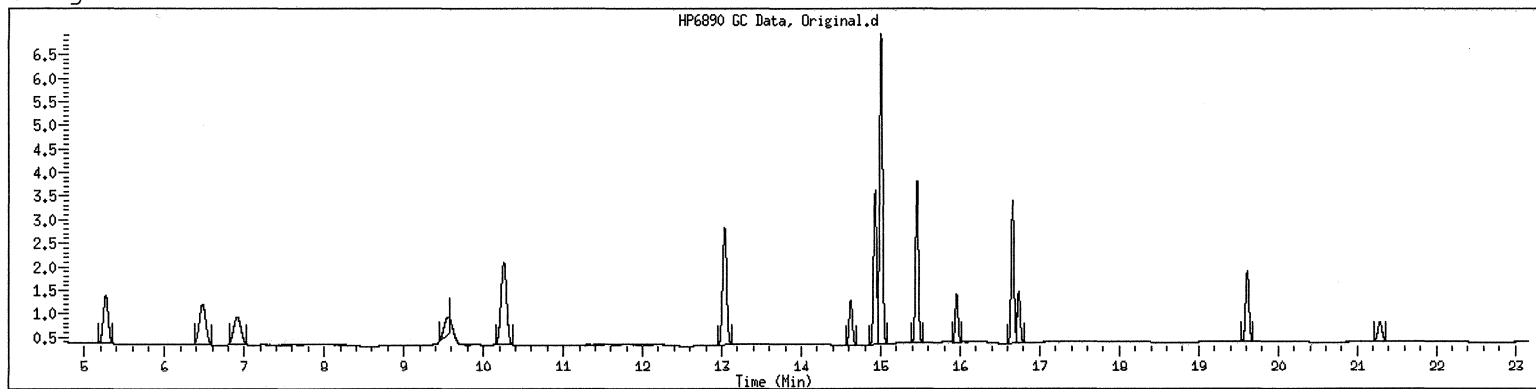


211103124 249

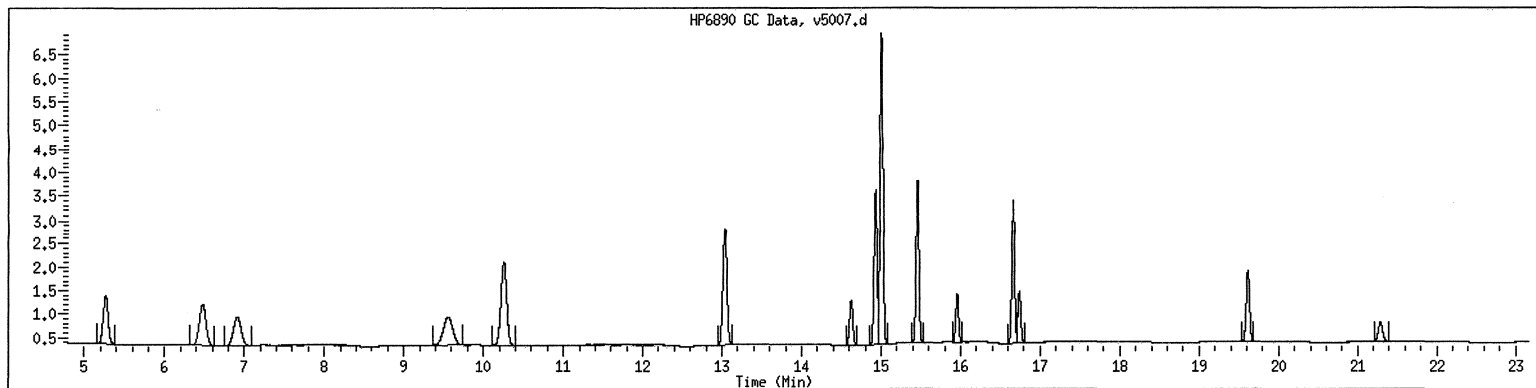
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH50/6/12/4 SampleType : CALIB_3
Injection Date: 11/04/2011 23:54 Instrument : gcv5a.i
Operator : JAR
Sample Info : VPH50/6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111104p.b/v5009.d
 Lab Smp Id: VPH80/6/12/4
 Inj Date : 05-NOV-2011 00:53
 Operator : JAR
 Smp Info : VPH80/6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
 Meth Date : 07-Nov-2011 10:29 jar
 Cal Date : 05-NOV-2011 00:53
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5a.i
 Quant Type: ESTD
 Cal File: v5009.d
 Calibration Sample, Level: 4
 Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
M 2 C5-C8				2126034	240.000	206
1 n-Pentane	5.264	5.264	0.000	605714	80.0000	63.4
3 2-Methyl Pentane	6.481	6.481	0.000	766261	80.0000	70.0 (M1)
6 Isooctane	9.559	9.559	0.000	754059	80.0000	72.4 (M1)
13 n-Decane	15.958	15.958	0.000	512745	80.0000	94.2
15 n-Butylcyclohexane	16.740	16.740	0.000	499891	80.0000	83.8 (M1)
16 Naphthalene	19.614	19.614	0.000	674677	80.0000	75.5
M 5 C9-C12				1012636	160.000	178
§ 17 2,5-Dibromotoluene	21.288	21.288	0.000	139338	50.0000	46.1

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Date: 05-NOV-2011 00:53

Client ID:

Instrument: gcv5a.i

Sample Info: VPH80/6/12/4

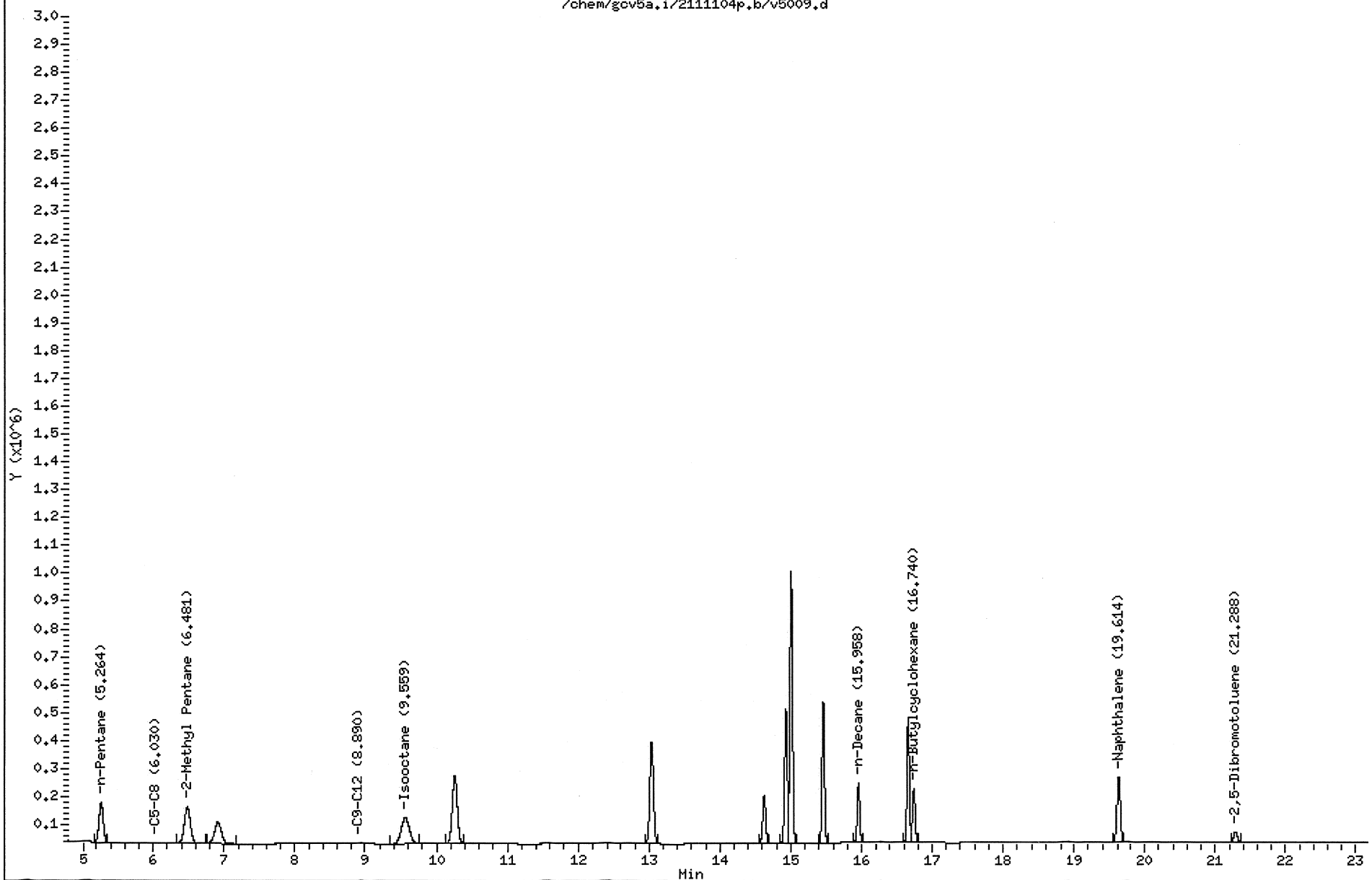
Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

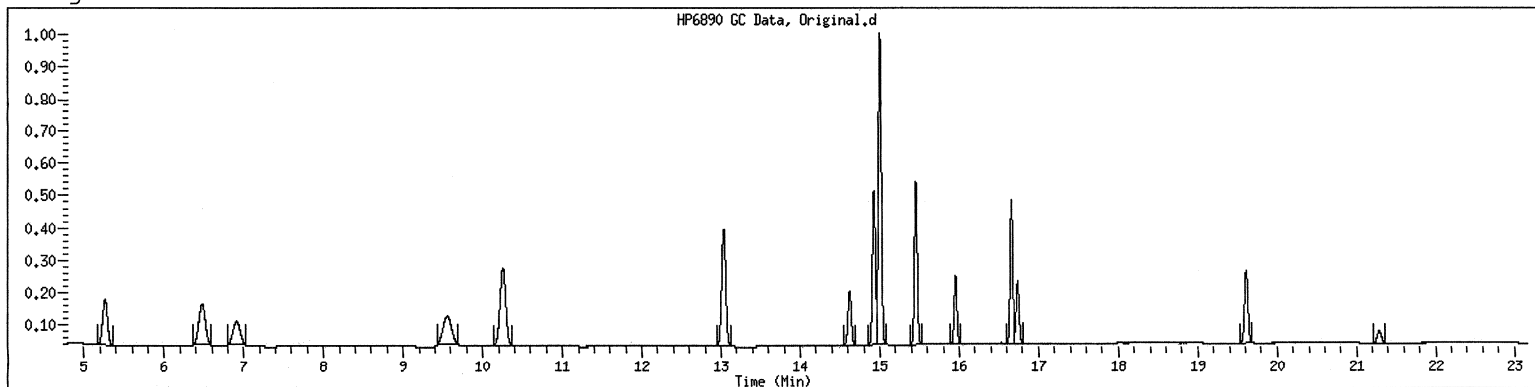
/chem/gcv5a.i/2111104p.b/v5009.d



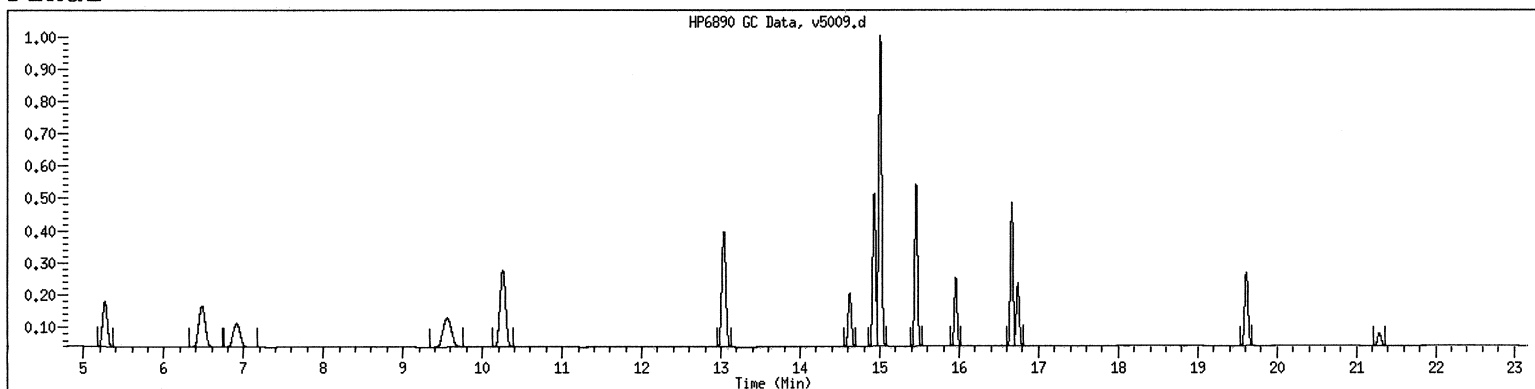
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH80/6/12/4 SampleType : CALIB_4
Injection Date: 11/05/2011 00:53 Instrument : gcv5a.i
Operator : JAR
Sample Info : VPH80/6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111104p.b/v5011.d
Lab Smp Id: VPH100/6/12/4
Inj Date : 05-NOV-2011 01:52
Operator : JAR
Smp Info : VPH100/6/12/4
Misc Info :
Comment :
Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
Meth Date : 07-Nov-2011 10:29 jar
Cal Date : 05-NOV-2011 01:52
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Processing Host: org.gcal.com
Inst ID: gcv5a.i
Quant Type: ESTD
Cal File: v5011.d
Calibration Sample, Level: 5
Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
M 2 C5-C8				2225866	300.000	226
1 n-Pentane	5.263	5.263	0.000	625897	100.000	69.5 (M1)
3 2-Methyl Pentane	6.480	6.480	0.000	789446	100.000	75.6 (M1)
6 Isooctane	9.557	9.557	0.000	810523	100.000	80.8 (M1)
13 n-Decane	15.959	15.959	0.000	610961	100.000	110 (A)
15 n-Butylcyclohexane	16.742	16.742	0.000	590825	100.000	99.2 (M1)
16 Naphthalene	19.617	19.617	0.000	852519	100.000	96.3
M 5 C9-C12				1201786	200.000	209
§ 17 2,5-Dibromotoluene	21.294	21.294	0.000	141234	50.0000	47.2

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M1- Compound response manually integrated because Target system did not integrate.

Data File: /chem/gcv5a.i/2111104p.b/v5011.d

Page 1

Date : 05-NOV-2011 01:52

Client ID:

Instrument: gcv5a.i

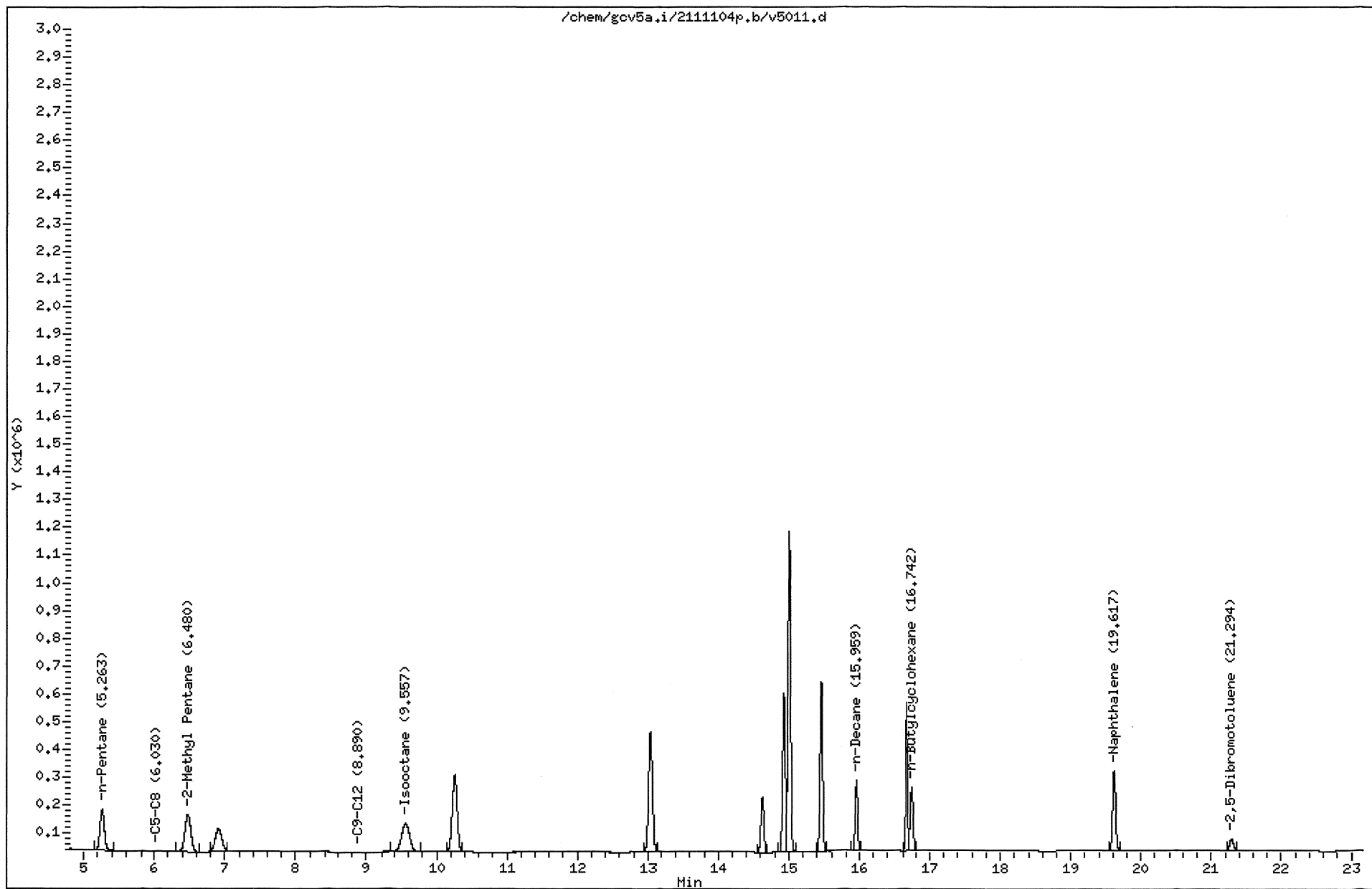
Sample Info: VPH100/6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

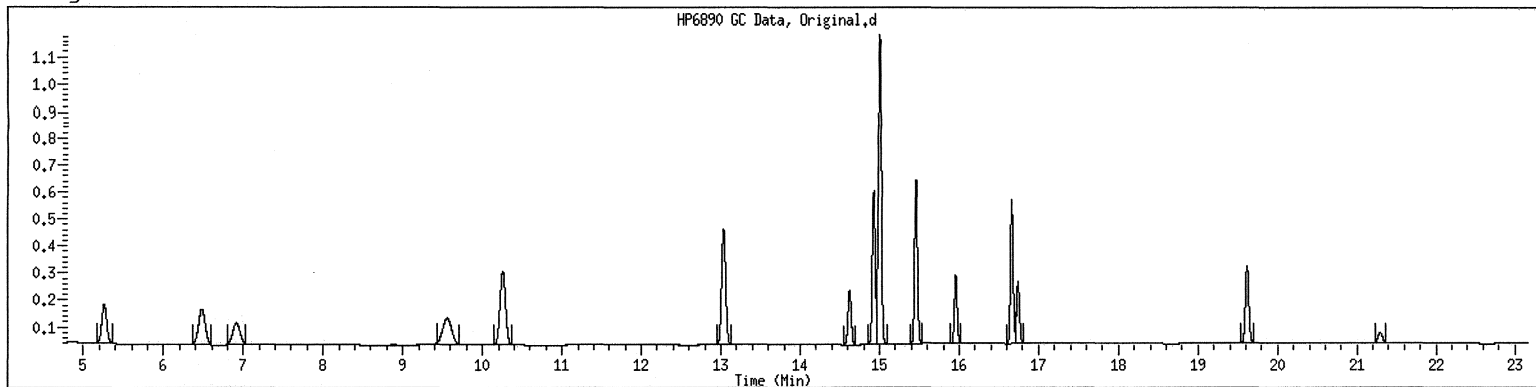


211109124 257

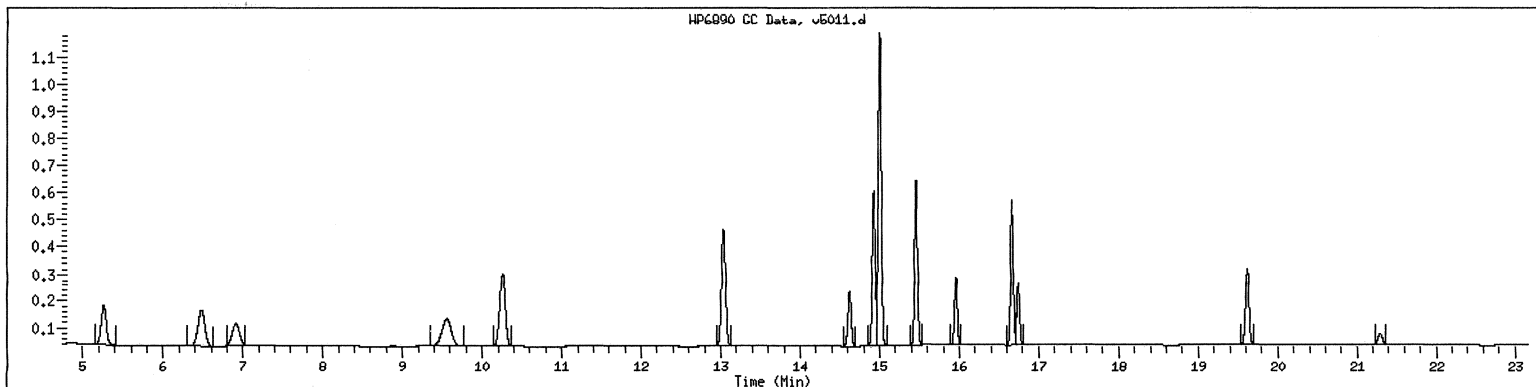
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH100/6/12/4 SampleType : CALIB_5
Injection Date: 11/05/2011 01:52 Instrument : gcv5a.i
Operator : JAR
Sample Info : VPH100/6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



GCAL, Inc.

RECOVERY REPORT

Client Name: Client SDG: 2111104p
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: ICV6/12/5
 Level: LOW Operator: JAR
 Data Type: GC MULTI COMP SampleType: LCS
 SpikeList File: aliphatic1.spk Quant Type: ESTD
 Sublist File: aliphatic1+surr.sub
 Method File: /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
 Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
1 n-Pentane	50.0	46.6	93.10	70-130
M 2 C5-C8	150	139	92.95	70-130
3 2-Methyl Pentane	50.0	48.5	96.95	70-130
M 5 C9-C12	100	92.4	92.37	70-130
6 Isooctane	50.0	44.4	88.79	70-130
13 n-Decane	50.0	44.9	89.88	70-130
15 n-Butylcyclohexane	50.0	47.4	94.86	70-130
16 Naphthalene	50.0	54.8	109.51	70-130

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 17 2,5-Dibromotoluene	50.0	49.5	99.05	70-130

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111104p.b/v5013.d
 Lab Smp Id: ICV6/12/5
 Inj Date : 05-NOV-2011 02:51
 Operator : JAR
 Smp Info : ICV6/12/5
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
 Meth Date : 07-Nov-2011 10:22 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5a.i
 Quant Type: ESTD
 Cal File: v5011.d
 QC Sample: LCS
 Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
M 2 C5-C8				1370151	139.426	139
1 n-Pentane	5.264	5.263	0.001	418980	46.5524	46.6(M1)
3 2-Methyl Pentane	6.480	6.480	0.000	505982	48.4762	48.5(M1)
6 Isooctane	9.555	9.557	-0.002	445188	44.3972	44.4(M1)
13 n-Decane	15.958	15.959	-0.001	249629	44.9383	44.9
15 n-Butylcyclohexane	16.741	16.742	-0.001	282608	47.4296	47.4
16 Naphthalene	19.615	19.617	-0.002	484765	54.7551	54.8
M 5 C9-C12				532237	92.3679	92.4
\$ 17 2,5-Dibromotoluene	21.290	21.294	-0.004	148060	49.5241	49.5

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Date : 05-NOV-2011 02:51

Client ID:

Instrument: gcv5a.i

Sample Info: ICV6/12/5

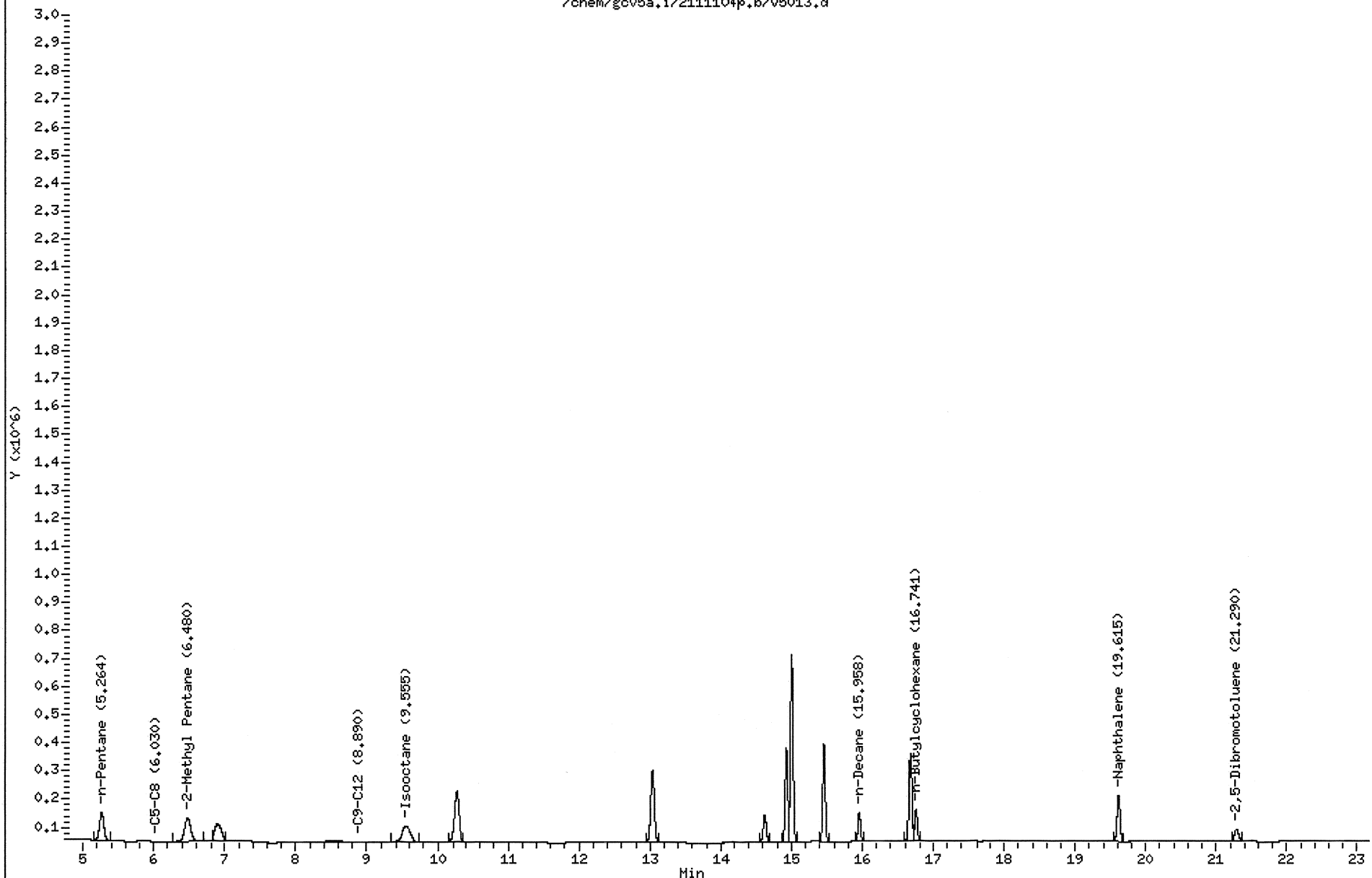
Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

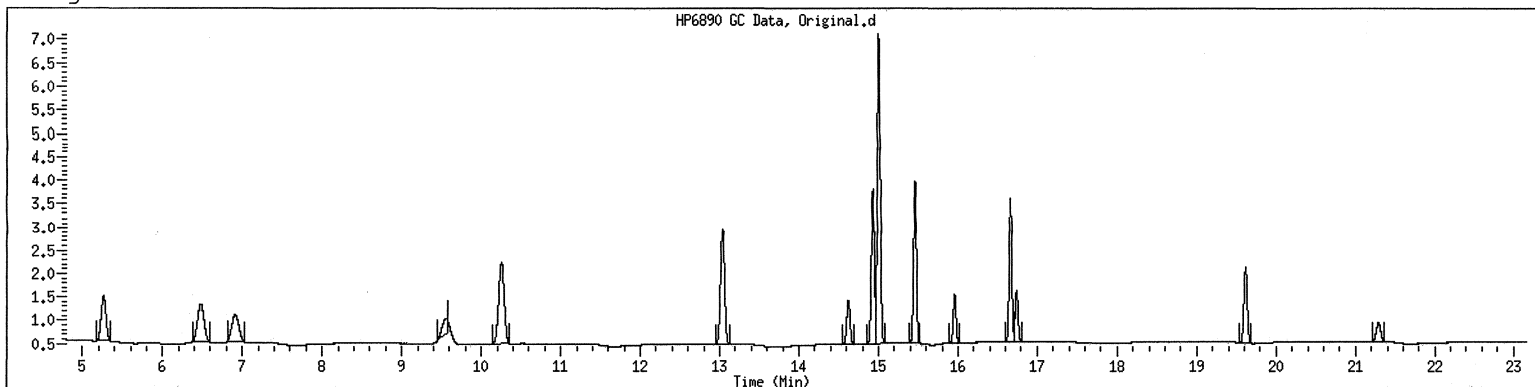
/chem/gcv5a.i/2111104p.b/v5013.d



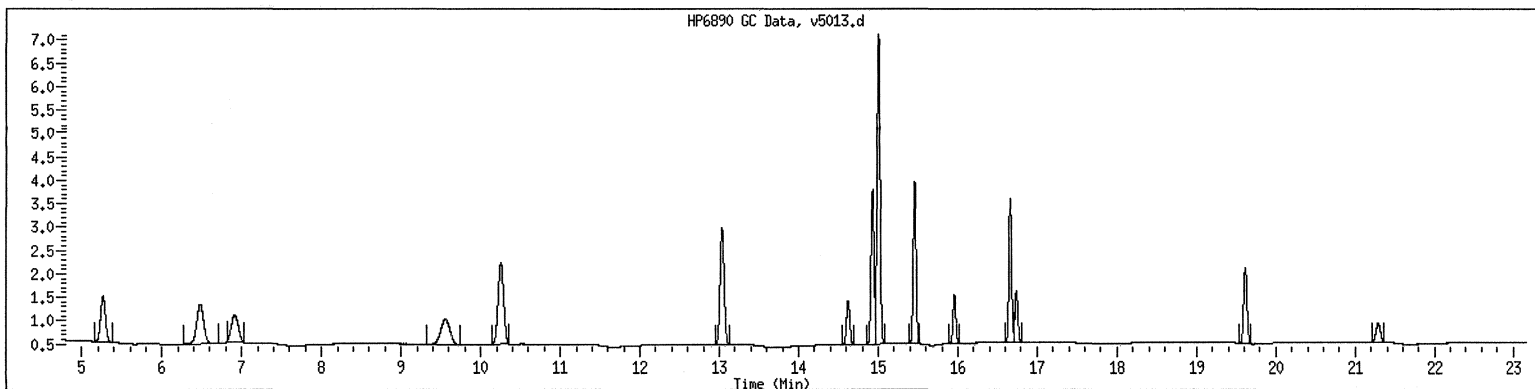
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : ICV6/12/5 SampleType : LCS
Injection Date: 11/05/2011 02:51 Instrument : gcv5a.i
Operator : JAR
Sample Info : ICV6/12/5
Misc Info :
Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcv5a.i Injection Date: 07-NOV-2011 11:22
Lab File ID: v5001.d Init. Cal. Date(s): 04-NOV-2011 05-NOV-2011
Analysis Type: WATER Init. Cal. Times: 20:57 01:52
Lab Sample ID: VPH6/12/4 Quant Type: ESTD
Method: /var/chem/gcv5a.i/2111107.b/FIDMVPH.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	MIN %D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M 2 C5-C8	9822	10063	0.010	-2.45242	25.00000	Averaged
1 n-Pentane	9000	9099	0.010	-1.09665	25.00000	Averaged
3 2-Methyl Pentane	10438	10571	0.010	-1.27340	25.00000	Averaged
6 Isooctane	10027	10518	0.010	-4.89657	25.00000	Averaged
13 n-Decane	5555	5515	0.010	0.72519	25.00000	Averaged
15 n-Butylcyclohexane	5958	6214	0.010	-4.28469	25.00000	Averaged
16 Naphthalene	8853	9172	0.010	-3.60219	25.00000	Averaged
M 5 C9-C12	5437	5864	0.010	-7.84785	25.00000	Averaged
S 17 2,5-Dibromotoluene	2990	2988	0.010	0.04259	30.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 2.91351
Maximun Average %D/Drift = 25.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5001.d
 Lab Smp Id: VPH6/12/4
 Inj Date : 07-NOV-2011 11:22
 Operator : JAR
 Smp Info : VPH6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
 Meth Date : 08-Nov-2011 13:07 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5a.i
 Quant Type: ESTD
 Cal File: v5011.d
 Continuing Calibration Sample
 Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
M 2 C5-C8				1509398	150.000	154
1 n-Pentane	5.269	5.269	0.000	454944	50.0000	50.5
3 2-Methyl Pentane	6.485	6.485	0.000	528534	50.0000	50.6
6 Isooctane	9.563	9.563	0.000	525920	50.0000	52.4 (M1)
13 n-Decane	15.961	15.961	0.000	275732	50.0000	49.6
15 n-Butylcyclohexane	16.743	16.743	0.000	310689	50.0000	52.1
16 Naphthalene	19.618	19.618	0.000	458612	50.0000	51.8
M 5 C9-C12				586421	100.000	102
\$ 17 2,5-Dibromotoluene	21.295	21.295	0.000	149419	50.0000	50.0

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Date : 07-NOV-2011 11:22

Client ID:

Instrument: gcv5a.i

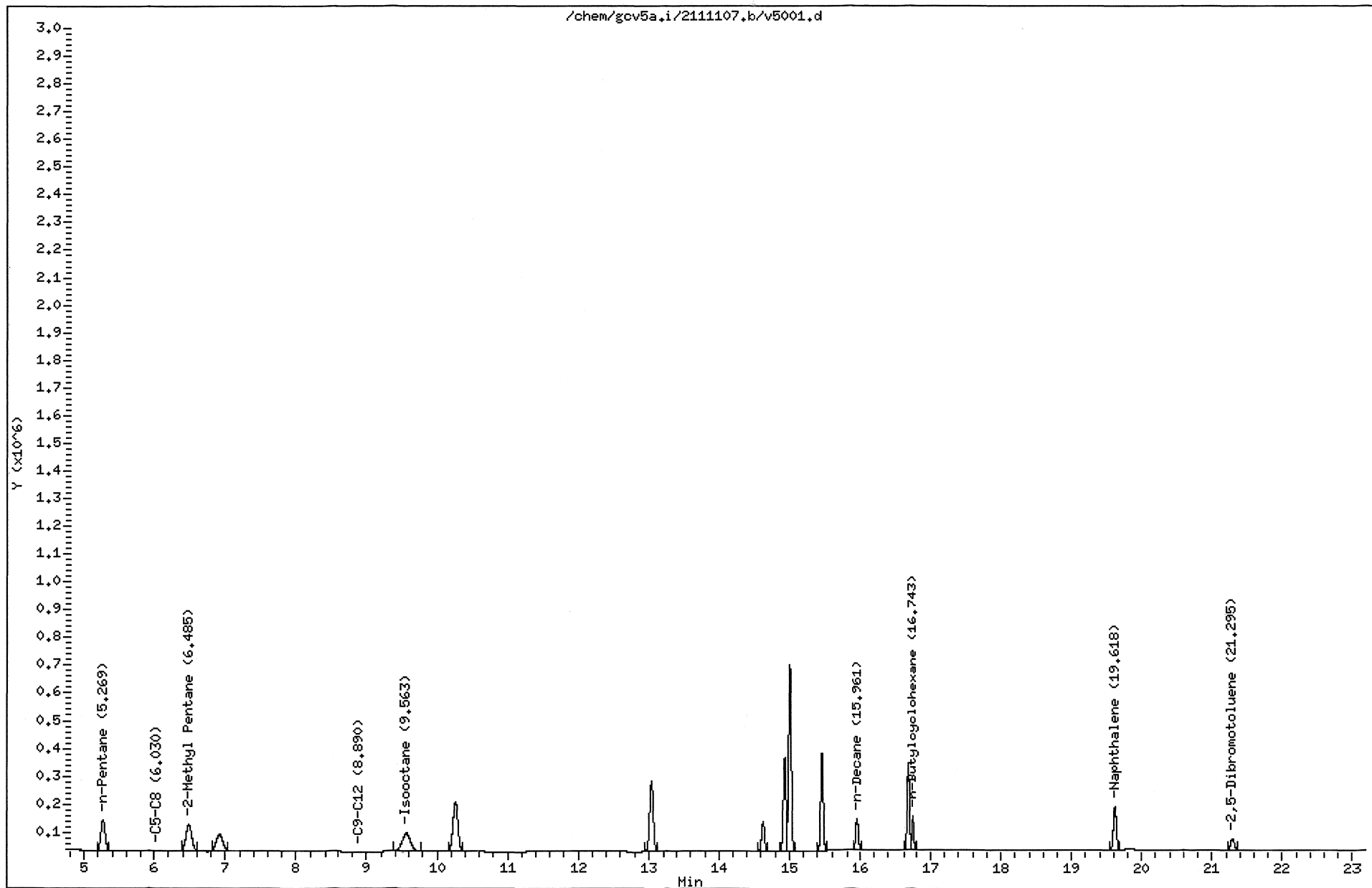
Sample Info: VPH6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53



211103124 267

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcv5a.i Injection Date: 07-NOV-2011 16:16
Lab File ID: v5011.d Init. Cal. Date(s): 04-NOV-2011 05-NOV-2011
Analysis Type: WATER Init. Cal. Times: 20:57 01:52
Lab Sample ID: VPH6/12/4 Quant Type: ESTD
Method: /var/chem/gcv5a.i/2111107.b/FIDMVPH.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	MIN %D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M 2 C5-C8	9822	9001	0.010	8.35987	25.00000	Averaged
I1 n-Pentane	9000	8133	0.010	9.63580	25.00000	Averaged
I3 2-Methyl Pentane	10438	9389	0.010	10.04971	25.00000	Averaged
I6 Isooctane	10027	9480	0.010	5.45566	25.00000	Averaged
I13 n-Decane	5555	5714	0.010	-2.86154	25.00000	Averaged
I15 n-Butylcyclohexane	5958	5735	0.010	3.75193	25.00000	Averaged
I16 Naphthalene	8853	8972	0.010	-1.34067	25.00000	Averaged
M 5 C9-C12	5437	5724	0.010	-5.27663	25.00000	Averaged
I\$ 17 2,5-Dibromotoluene	2990	2912	0.010	2.61212	30.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 5.48266
Maximun Average %D/Drift = 25.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5011.d
 Lab Smp Id: VPH6/12/4
 Inj Date : 07-NOV-2011 16:16
 Operator : JAR
 Smp Info : VPH6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
 Meth Date : 07-Nov-2011 17:08 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5a.i
 Quant Type: ESTD
 Cal File: v5011.d
 Continuing Calibration Sample
 Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
M 2 C5-C8				1350104	150.000	137
1 n-Pentane	5.266	5.266	0.000	406647	50.0000	45.2
3 2-Methyl Pentane	6.482	6.482	0.000	469440	50.0000	45.0
6 Isooctane	9.562	9.562	0.000	474017	50.0000	47.3(M1)
13 n-Decane	15.963	15.963	0.000	285694	50.0000	51.4
15 n-Butylcyclohexane	16.746	16.746	0.000	286746	50.0000	48.1
16 Naphthalene	19.623	19.623	0.000	448601	50.0000	50.7
M 5 C9-C12				572440	100.000	99.6
§ 17 2,5-Dibromotoluene	21.301	21.301	0.000	145578	50.0000	48.7

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Date : 07-NOV-2011 16:16

Client ID:

Instrument: gcv5a.i

Sample Info: VPH6/12/4

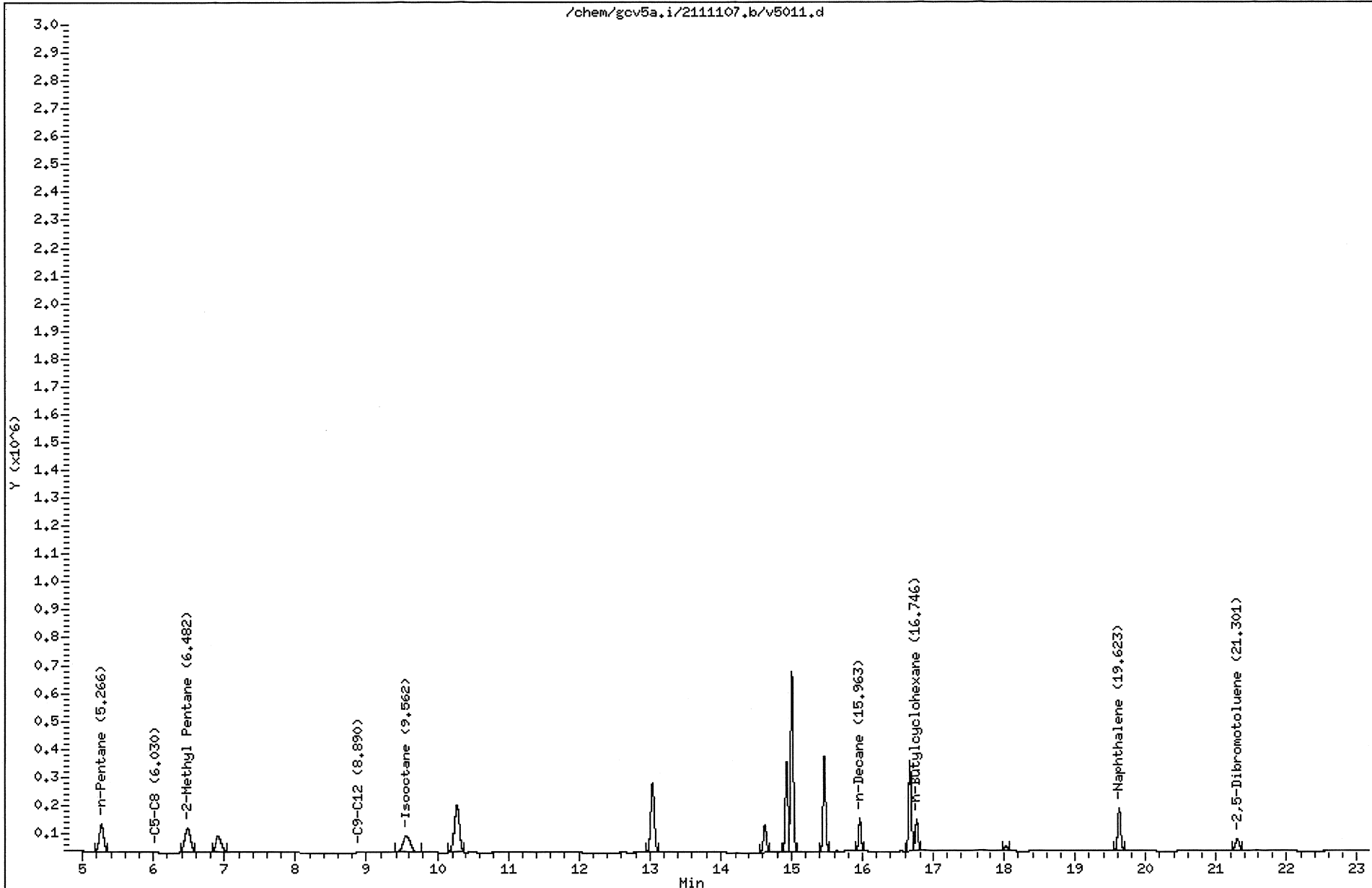
Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

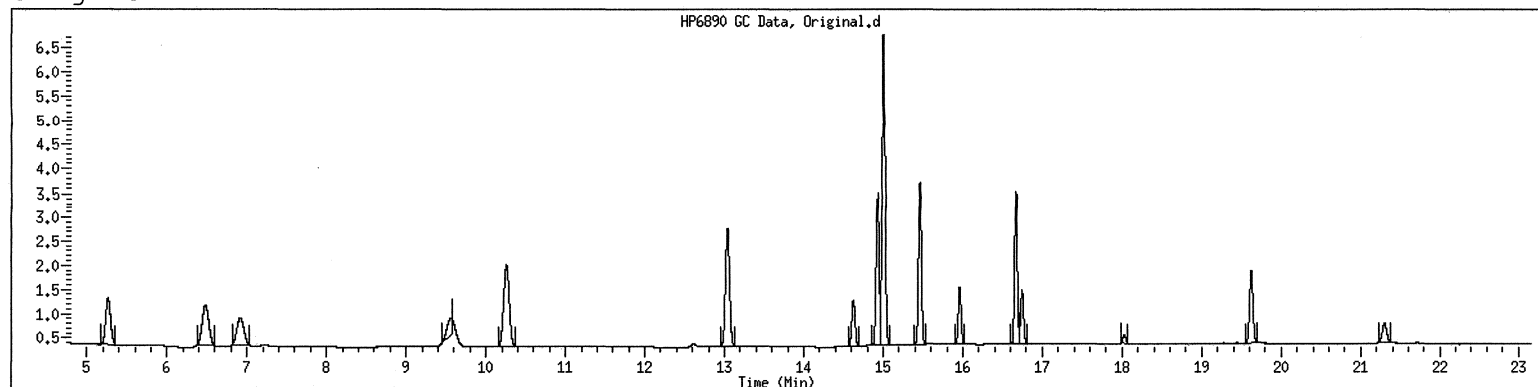
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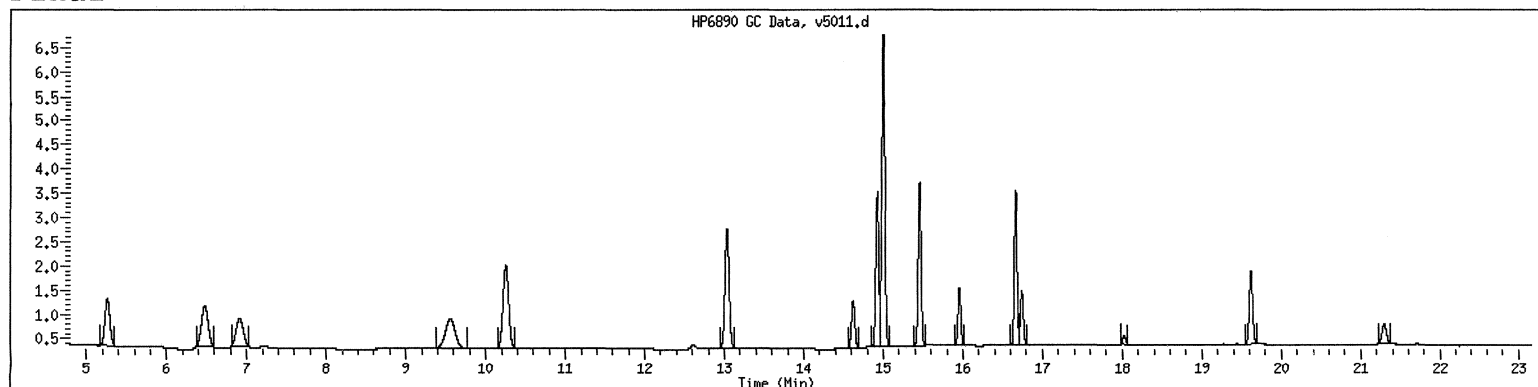
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH6/12/4
Injection Date: 11/07/2011 16:16
Operator : JAR
Sample Info : VPH6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon
SampleType : CCALIB_3
Instrument : gcv5a.i
Compound Sublist: aliphatic1+surr

Original



Final



GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcv5a.i Injection Date: 07-NOV-2011 23:22
 Lab File ID: v5021.d Init. Cal. Date(s): 04-NOV-2011 05-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 20:57 01:52
 Lab Sample ID: VPH6/12/4 Quant Type: ESTD
 Method: /var/chem/gcv5a.i/2111107.b/FIDMVPH.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	MIN %D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M 2 C5-C8	9822	9028	0.010	8.07690	25.00000	Averaged
1 n-Pentane	9000	8035	0.010	10.72067	25.00000	Averaged
3 2-Methyl Pentane	10438	9486	0.010	9.12269	25.00000	Averaged
6 Isooctane	10027	9565	0.010	4.61537	25.00000	Averaged
13 n-Decane	5555	4698	0.010	15.42674	25.00000	Averaged
15 n-Butylcyclohexane	5958	5459	0.010	8.38734	25.00000	Averaged
16 Naphthalene	8853	9479	0.010	-7.06687	25.00000	Averaged
M 5 C9-C12	5437	5078	0.010	6.60479	25.00000	Averaged
\$ 17 2,5-Dibromotoluene	2990	3336	0.010	-11.58685	30.00000	Averaged

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 9.06758
 Maximun Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5021.d
 Lab Smp Id: VPH6/12/4
 Inj Date : 07-NOV-2011 23:22
 Operator : JAR
 Smp Info : VPH6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
 Meth Date : 08-Nov-2011 10:11 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5a.i
 Quant Type: ESTD
 Cal File: v5011.d
 Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
M 2 C5-C8				1354273	137.771	138
1 n-Pentane	5.265	5.266	-0.001	401765	44.6397	44.6
3 2-Methyl Pentane	6.482	6.482	0.000	474278	45.4387	45.4
6 Isooctane	9.562	9.562	0.000	478230	47.6924	47.7 (M1)
13 n-Decane	15.961	15.963	-0.002	234899	42.2866	42.3
15 n-Butylcyclohexane	16.743	16.746	-0.003	272936	45.8063	45.8
16 Naphthalene	19.618	19.623	-0.005	473949	53.5334	53.5
M 5 C9-C12				507835	88.0930	88.1
\$ 17 2,5-Dibromotoluene	21.293	21.301	-0.008	166803	55.7934	55.8

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Data File: /chem/gov5a.i/2111107.b/v5021.d

Page 1

Date : 07-NOV-2011 23:22

Client ID:

Instrument: gov5a.i

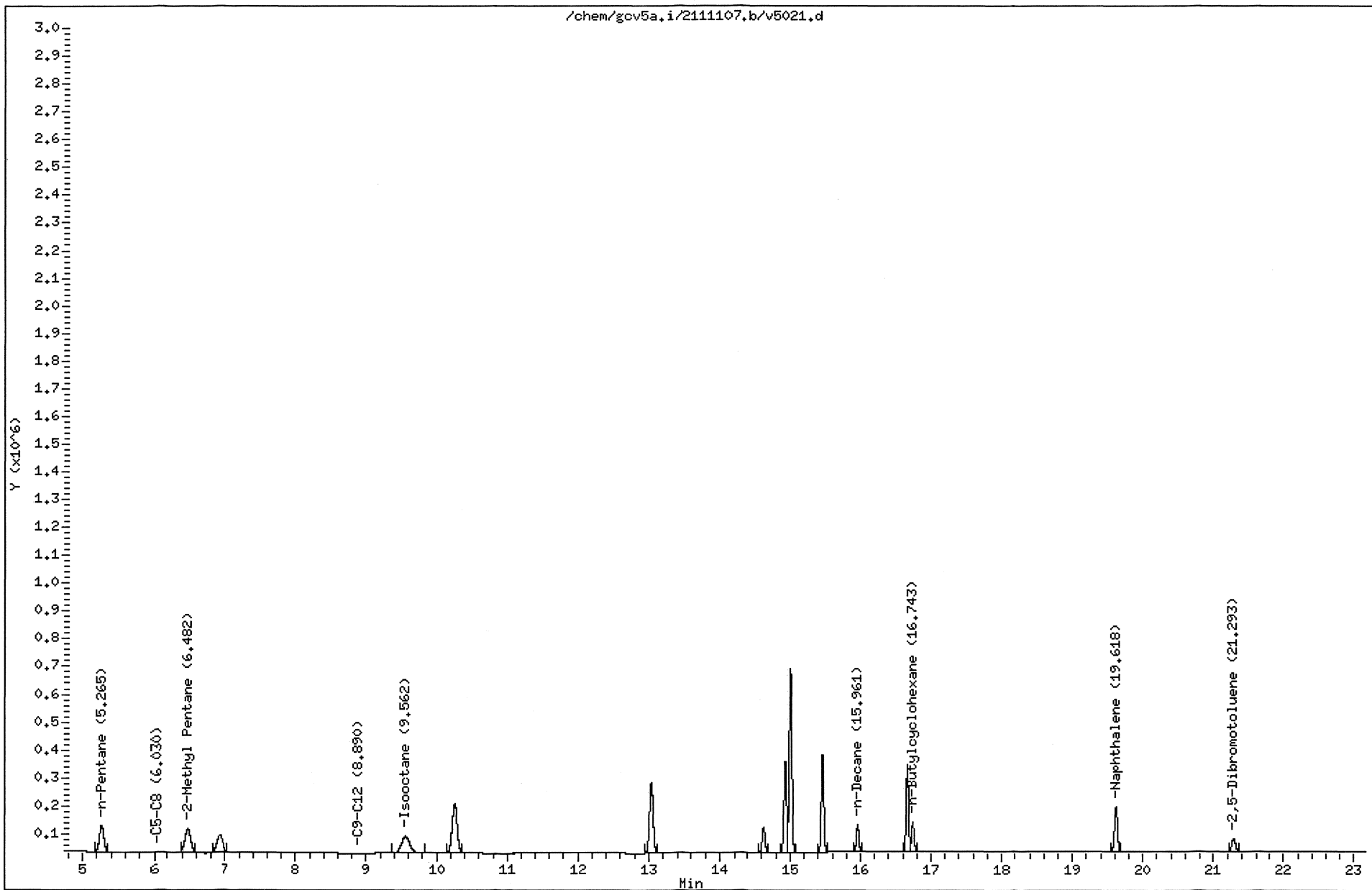
Sample Info: VPH6/12/4

Operator: JAR

Volume Injected (uL): 1.0

Column diameter: 0.53

Column phase: DB-624-30

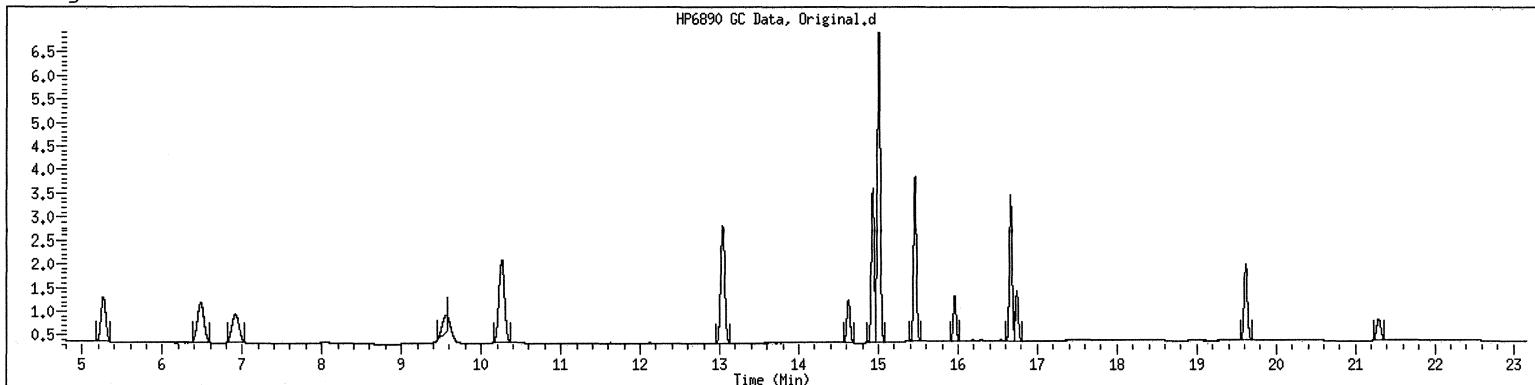


211103124 277

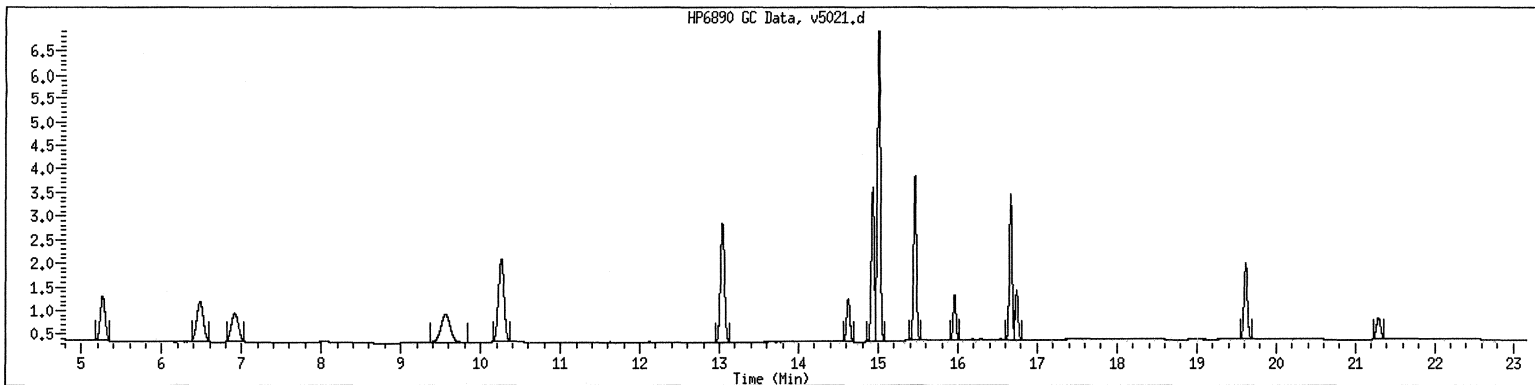
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH6/12/4 SampleType : SAMPLE
Injection Date: 11/07/2011 23:22 Instrument : gcv5a.i
Operator : JAR
Sample Info : VPH6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcv5a.i Injection Date: 08-NOV-2011 01:49
 Lab File ID: v5026.d Init. Cal. Date(s): 04-NOV-2011 05-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 20:57 01:52
 Lab Sample ID: VPH6/12/4 Quant Type: ESTD
 Method: /var/chem/gcv5a.i/2111107.b/FIDMVPH.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX RRF	%D / %DRIFT	CURVE TYPE
M 2 C5-C8	9822	9226	0.010	6.06878	25.00000		Averaged
1 n-Pentane	9000	8302	0.010	7.75673	25.00000		Averaged
3 2-Methyl Pentane	10438	9667	0.010	7.38401	25.00000		Averaged
6 Isooctane	10027	9708	0.010	3.18469	25.00000		Averaged
13 n-Decane	5555	4605	0.010	17.10129	25.00000		Averaged
15 n-Butylcyclohexane	5958	5545	0.010	6.94738	25.00000		Averaged
16 Naphthalene	8853	10068	0.010	-13.72177	25.00000		Averaged
M 5 C9-C12	5437	5075	0.010	6.67118	25.00000		Averaged
\$ 17 2,5-Dibromotoluene	2990	3325	0.010	-11.22962	30.00000		Averaged

Average %D / Drift Results.

 Calculated Average %D/Drift = 8.89616
 Maximun Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5026.d
 Lab Smp Id: VPH6/12/4
 Inj Date : 08-NOV-2011 01:49
 Operator : JAR
 Smp Info : VPH6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
 Meth Date : 08-Nov-2011 10:11 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5a.i
 Quant Type: ESTD
 Cal File: v5011.d
 Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
M 2 C5-C8				1383858	140.837	141
1 n-Pentane	5.266	5.266	0.000	415103	46.1216	46.1
3 2-Methyl Pentane	6.483	6.482	0.001	483352	46.3080	46.3
6 Isooctane	9.562	9.562	0.000	485403	48.4077	48.4 (M1)
13 n-Decane	15.960	15.963	-0.003	230248	41.4494	41.4
15 n-Butylcyclohexane	16.742	16.746	-0.004	277226	46.5263	46.5
16 Naphthalene	19.617	19.623	-0.006	503408	56.8609	56.9
M 5 C9-C12				507474	87.9757	88.0
\$ 17 2,5-Dibromotoluene	21.292	21.301	-0.009	166269	55.6148	55.6

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Date : 08-NOV-2011 01:49

Client ID:

Instrument: gcv5a.i

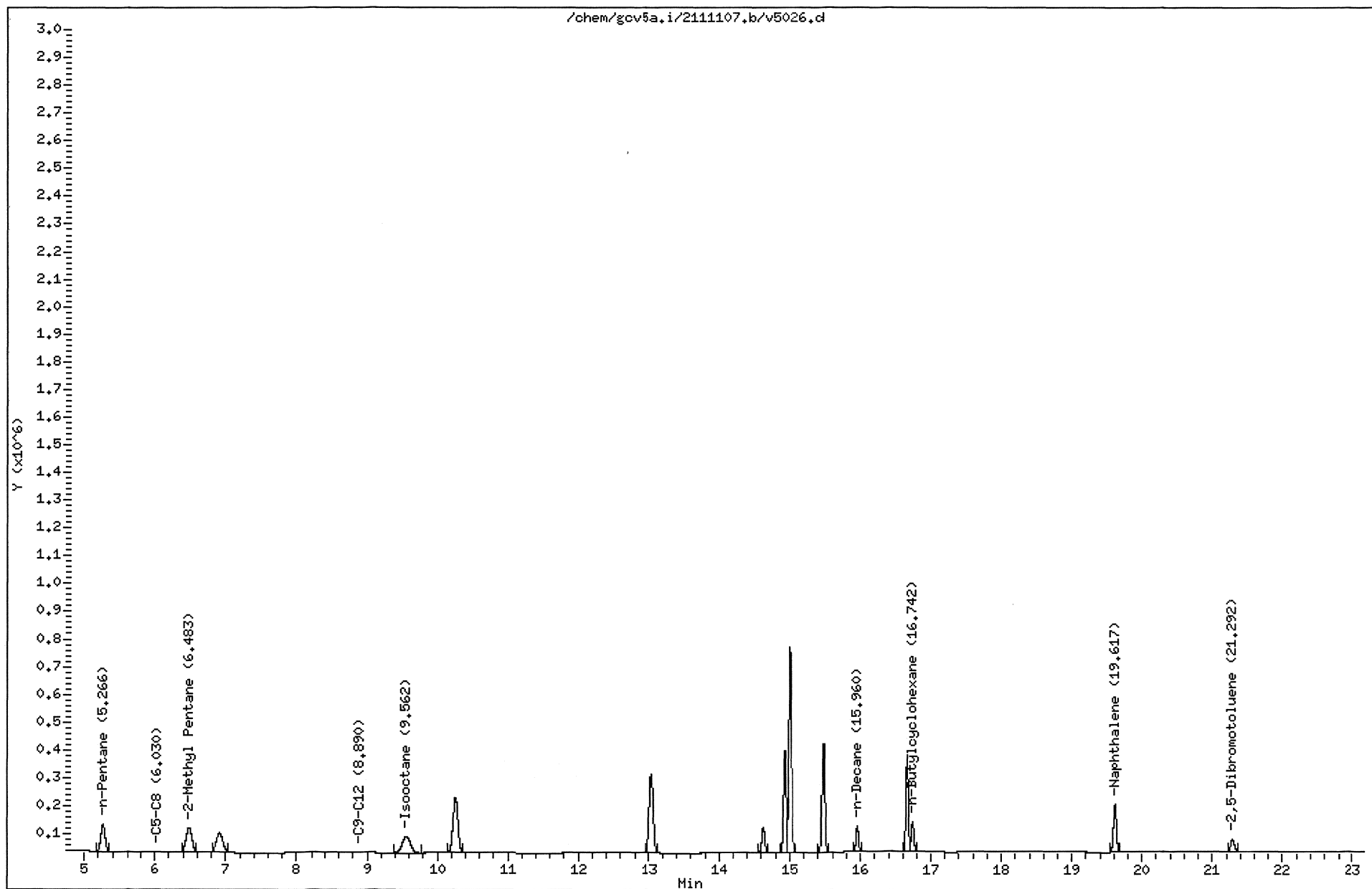
Sample Info: VPH6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

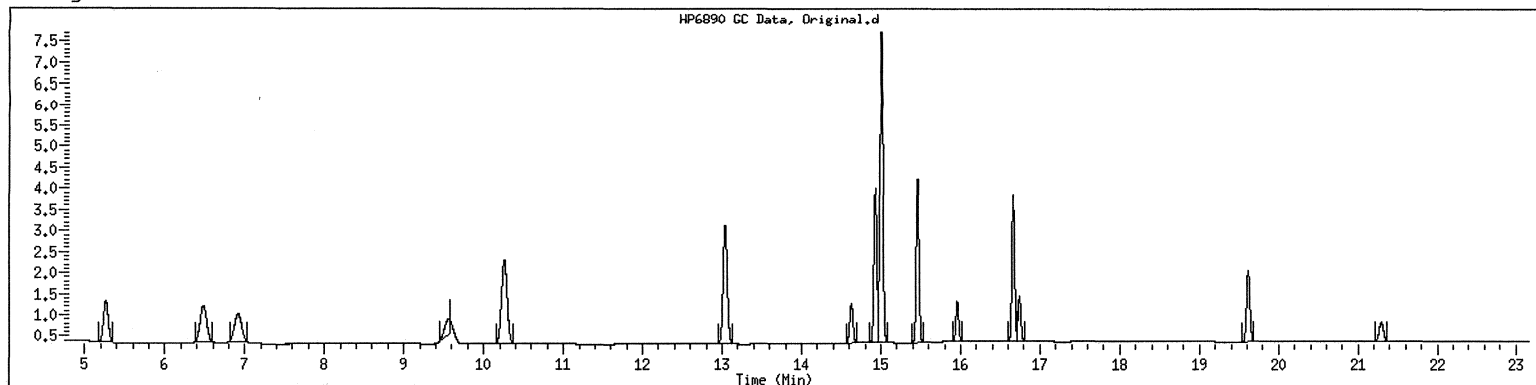
Column diameter: 0.53



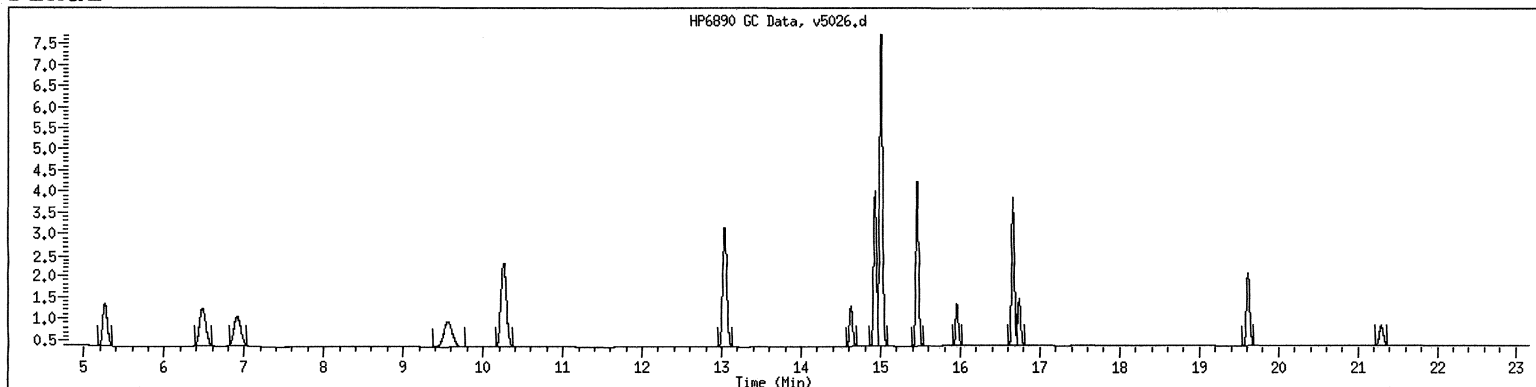
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: VPH6/12/4	SampleType	: SAMPLE
Injection Date	: 11/08/2011 01:49	Instrument	: gcv5a.i
Operator	: JAR		
Sample Info	: VPH6/12/4		
Misc Info	:		
Method	: /var/chem/gcv5a.i/2111107.b/FIDMVPH.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: Falcon	Compound Sublist:	aliphatic1+surr

Original



Final



GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcv5a.i Injection Date: 08-NOV-2011 12:51
 Lab File ID: v5031.d Init. Cal. Date(s): 04-NOV-2011 05-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 20:57 01:52
 Lab Sample ID: vph6/12/4 Quant Type: ESTD
 Method: /var/chem/gcv5a.i/2111107.b/FIDMVPH.m

COMPOUND	RRF / AMOUNT	RF50	MIN	MAX	CURVE TYPE	
M 2 C5-C8	9822	10371	0.010	-5.58865	25.00000	Averaged
1 n-Pentane	9000	8873	0.010	1.40885	25.00000	Averaged
3 2-Methyl Pentane	10438	10854	0.010	-3.99027	25.00000	Averaged
6 Isooctane	10027	11384	0.010	-13.53311	25.00000	Averaged
13 n-Decane	5555	5865	0.010	-5.58309	25.00000	Averaged
15 n-Butylcyclohexane	5958	6889	0.010	-15.62315	25.00000	Averaged
16 Naphthalene	8853	10352	0.010	-16.92283	25.00000	Averaged
M 5 C9-C12	5437	6377	0.010	-17.28255	25.00000	Averaged
\$ 17 2,5-Dibromotoluene	2990	3484	0.010	-16.52254	30.00000	Averaged

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 10.71723
 Maximun Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5031.d
 Lab Smp Id: vph6/12/4
 Inj Date : 08-NOV-2011 12:51
 Operator : JAR
 Smp Info : vph6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
 Meth Date : 08-Nov-2011 13:21 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5a.i
 Quant Type: ESTD
 Cal File: v5011.d
 Continuing Calibration Sample
 Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
M 2 C5-C8				1555603	150.000	158
1 n-Pentane	5.266	5.266	0.000	443669	50.0000	49.3
3 2-Methyl Pentane	6.483	6.483	0.000	542713	50.0000	52.0
6 Isooctane	9.561	9.561	0.000	569221	50.0000	56.8 (M1)
13 n-Decane	15.965	15.965	0.000	293253	50.0000	52.8
15 n-Butylcyclohexane	16.748	16.748	0.000	344469	50.0000	57.8
16 Naphthalene	19.628	19.628	0.000	517578	50.0000	58.5
M 5 C9-C12				637722	100.000	111
\$ 17 2,5-Dibromotoluene	21.306	21.306	0.000	174181	50.0000	58.3

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Date : 08-NOV-2011 12:51

Client ID:

Instrument: gcv5a.i

Sample Info: vph6/12/4

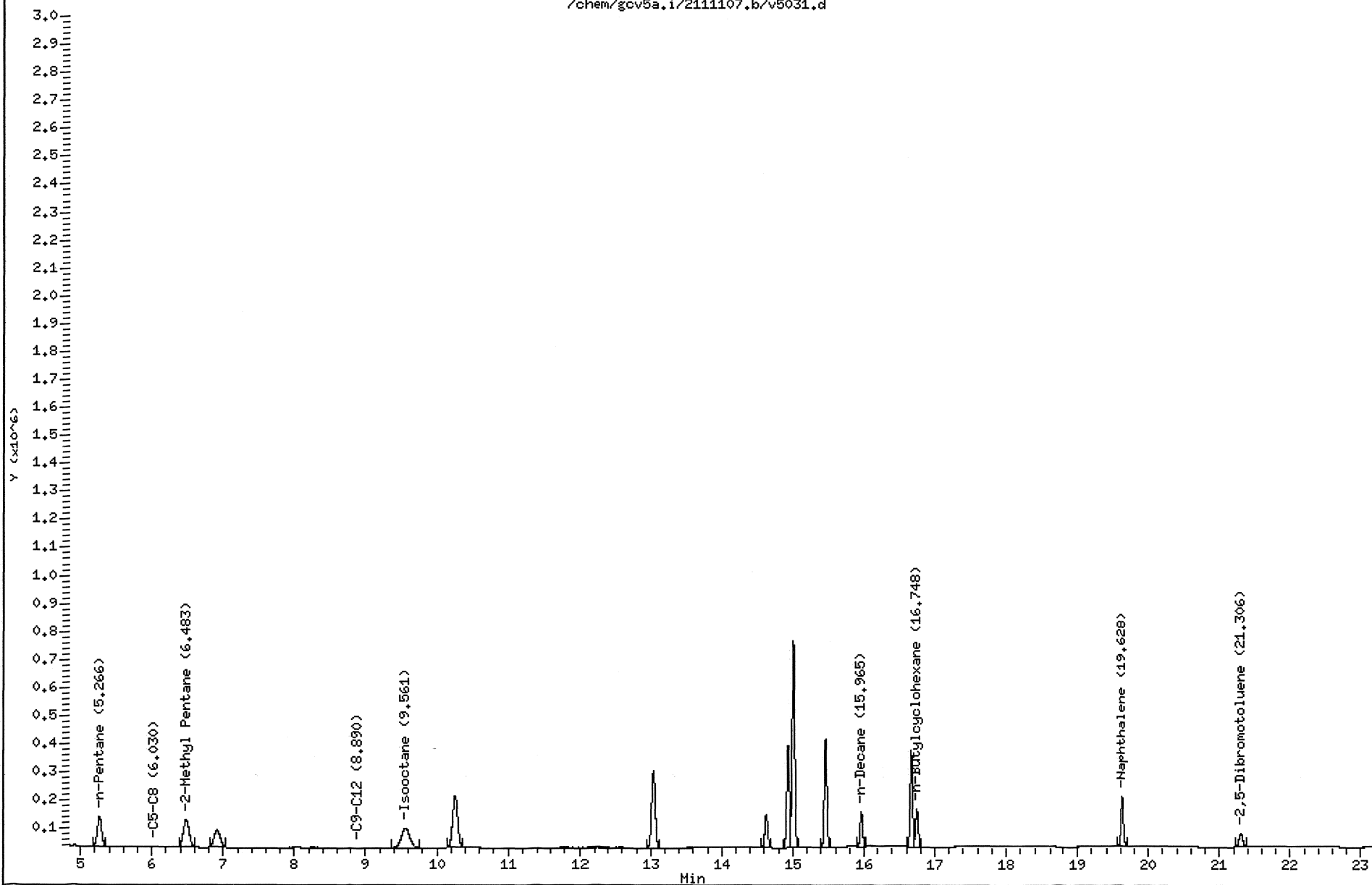
Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

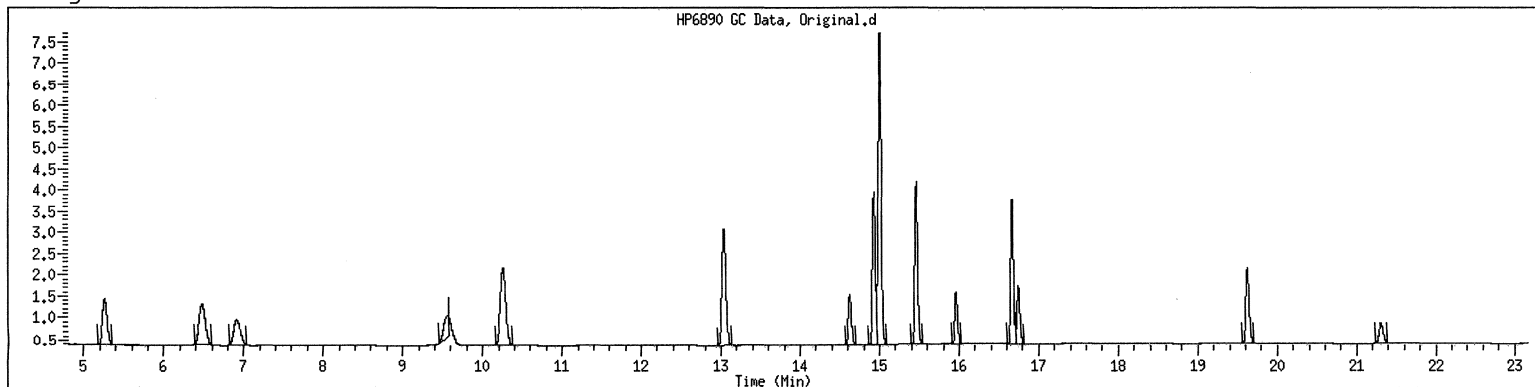
/chem/gcv5a.i/2111107.b/v5031.d



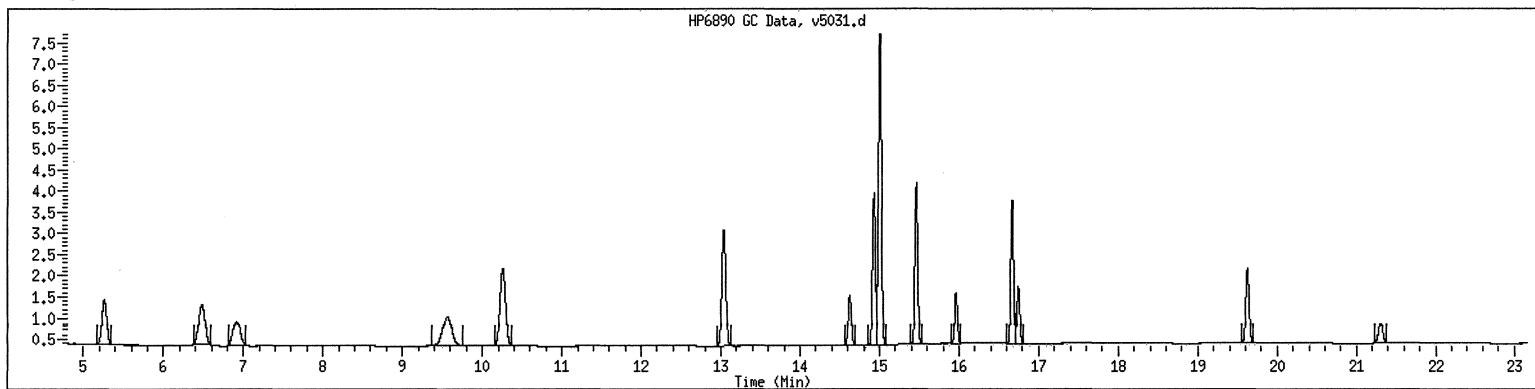
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: vph6/12/4	SampleType	: CCALIB_3
Injection Date	: 11/08/2011 12:51	Instrument	: gcv5a.i
Operator	: JAR		
Sample Info	: vph6/12/4		
Misc Info	:		
Method	: /var/chem/gcv5a.i/2111107.b/FIDMVPH.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: Falcon	Compound Sublist:	: aliphatic1+surr

Original



Final



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: MB1003187
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211103124
 Sample wt/vol: 5 Units: mL Lab Sample ID: 1003187
 Level: (low/med) _____ Date Collected: _____ Time: _____
 % Moisture: _____ decanted: (Y/N) _____ Date Received: _____
 GC Column: _____ ID: _____ (mm) Date Extracted: _____
 Concentrated Extract Volume: 5000 (µL) Date Analyzed: 11/07/11 Time: 1221
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: JAR
 Injection Volume: 1 (µL) Prep Method: _____
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSVPH
 Prep Batch: _____ Analytical Batch: 468512 Sulfur Cleanup: (Y/N) N Instrument ID: GCV5B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111107/v5003

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCV-00-4	C5-C8 Aliphatic	15.0	U	3.31	15.0	30.0
GCV-00-5	C9-C12 Aliphatic	10.0	U	3.20	10.0	20.0
GCV-00-6	C9-C10 Aromatic	5.00	U	1.24	5.00	10.0

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5003.d

Lab Smp Id: 1003187 Client Smp ID: 1003187

Inj Date : 07-NOV-2011 12:21

Operator : JAR Inst ID: gcv5b.i

Smp Info : 1003187

Misc Info :

Comment :

Method : /var/chem/gcv5b.i/2111107.b/PIDMVP.H.m

Meth Date : 08-Nov-2011 13:39 jar Quant Type: ESTD

Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d

Als bottle: 1

Dil Factor: 1.00000

Integrator: Falcon Compound Sublist: aromatic.sub

Target Version: 3.50

Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

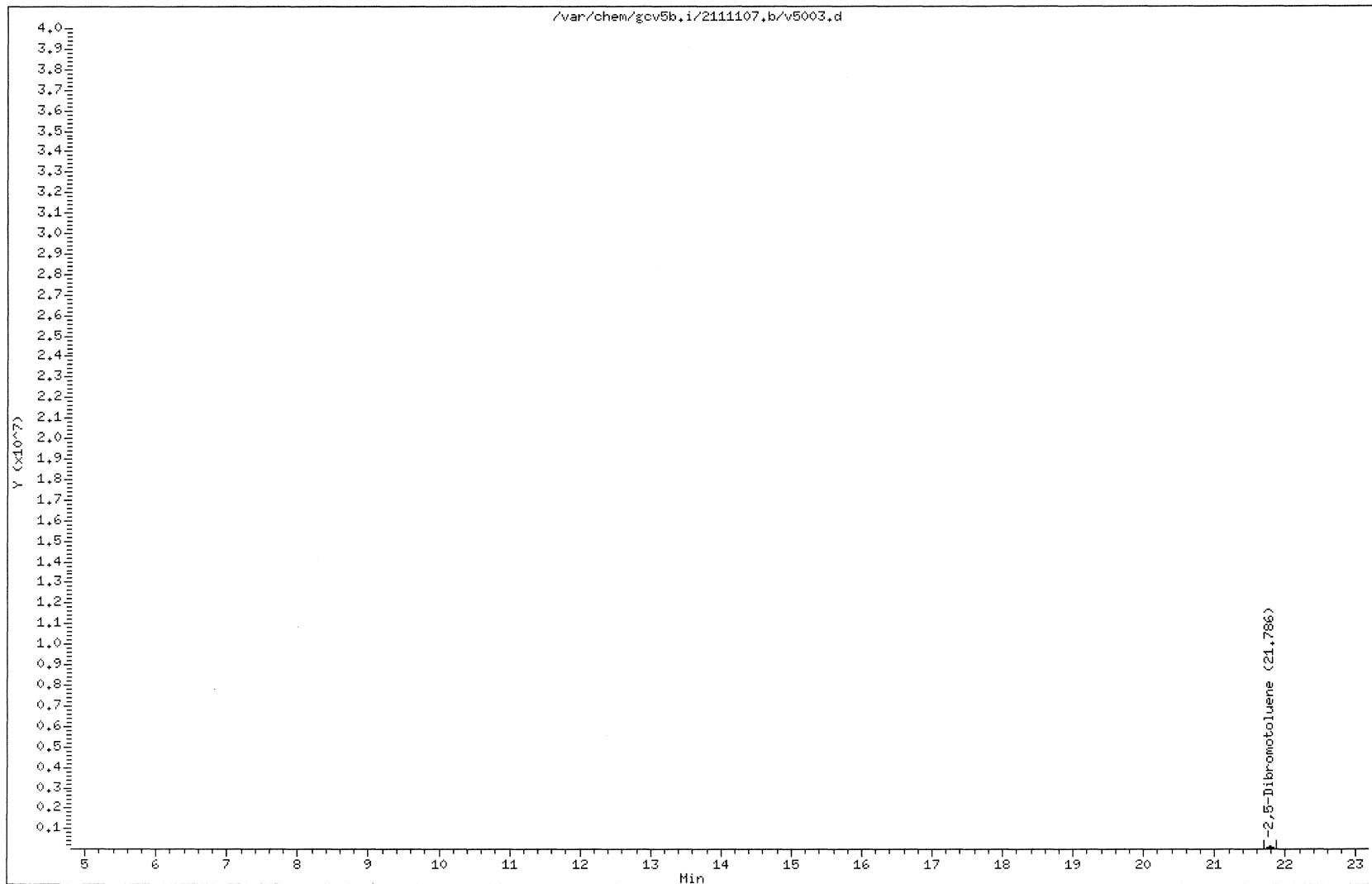
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
\$ 10 2,5-Dibromotoluene	21.786	21.781	0.005	350170	50.0811	50.1

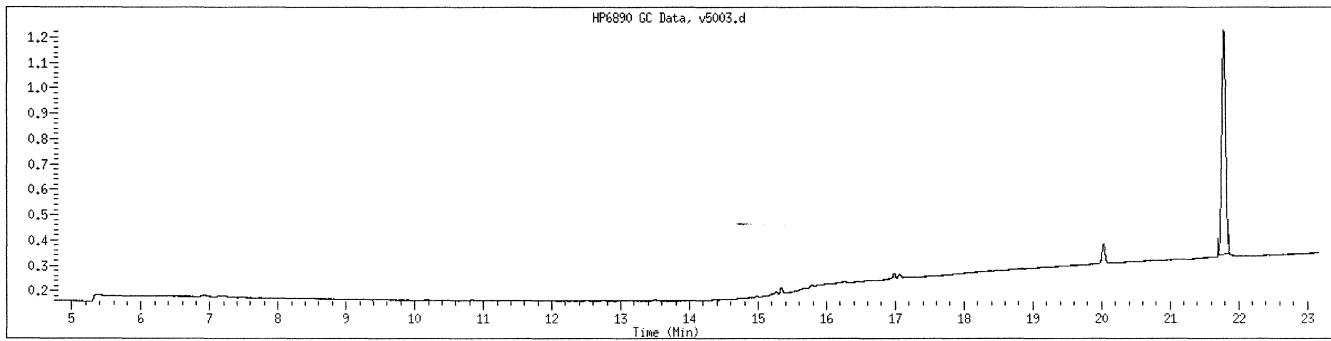
Data File: /var/chem/gcv5b.i/2111107.b/v5003.d
Date : 07-NOV-2011 12:21
Client ID: 1003187
Sample Info: 1003187
Volume Injected (uL): 1.0
Column phase: DB-624-30

Instrument: gcv5b.i
Operator: JAR
Column diameter: 0.53



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1003187 SampleType : SAMPLE
Injection Date: 11/07/2011 12:21 Instrument : gcv5b.i
Operator : JAR
Sample Info : 1003187
Misc Info :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5003.d
 Lab Smp Id: BLK
 Inj Date : 07-NOV-2011 12:21
 Operator : JAR
 Smp Info : BLK
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
 Meth Date : 07-Nov-2011 10:29 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5a.i
 Quant Type: ESTD
 Cal File: v5011.d
 Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
17 2,5-Dibromotoluene	21.297	21.294	0.003	143488	47.9950	48.0

Date : 07-NOV-2011 12:21

Client ID:

Instrument: gcv5a.i

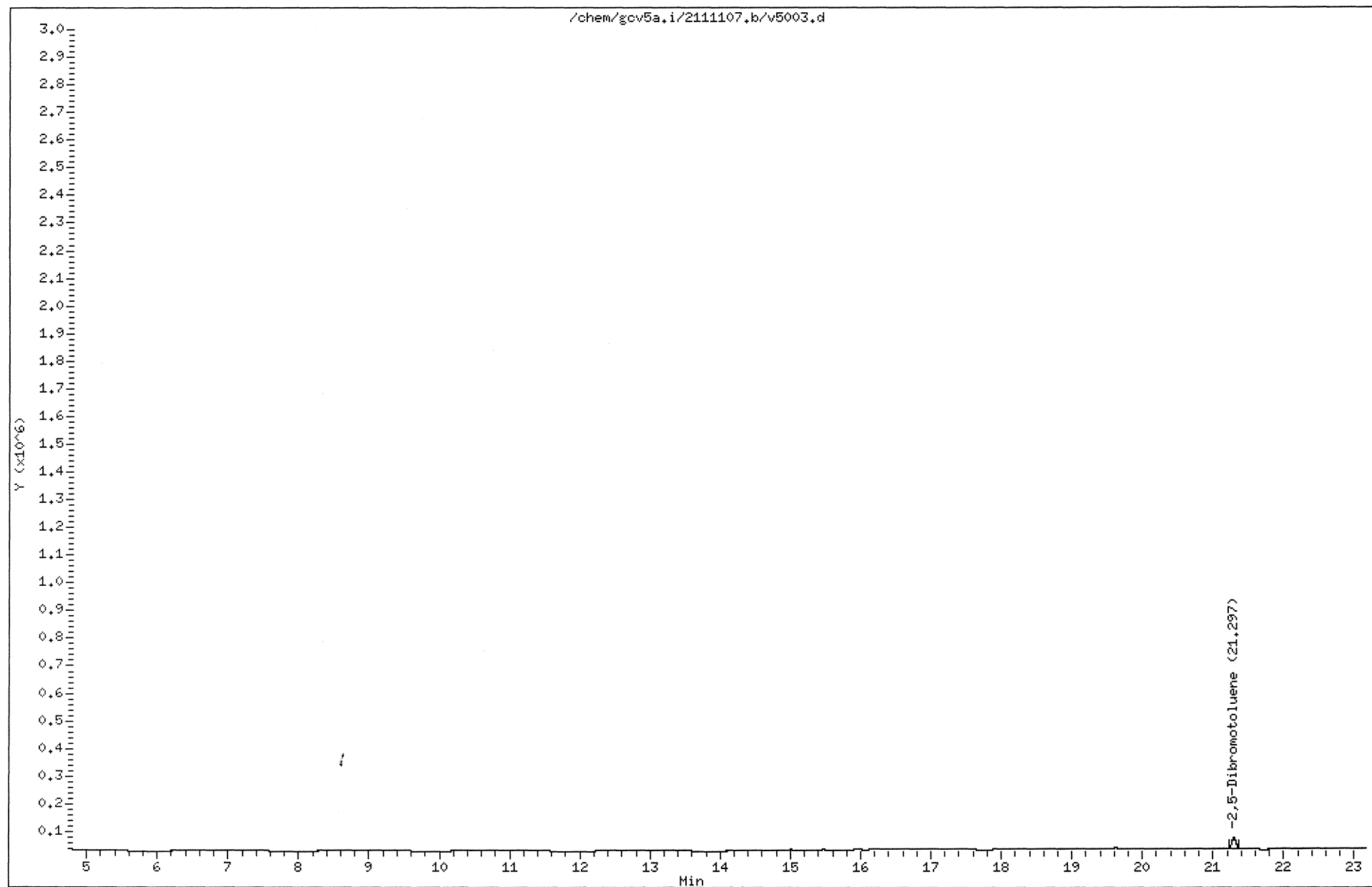
Sample Info: BLK

Operator: JAR

Volume Injected (uL): 1.0

Column diameter: 0.53

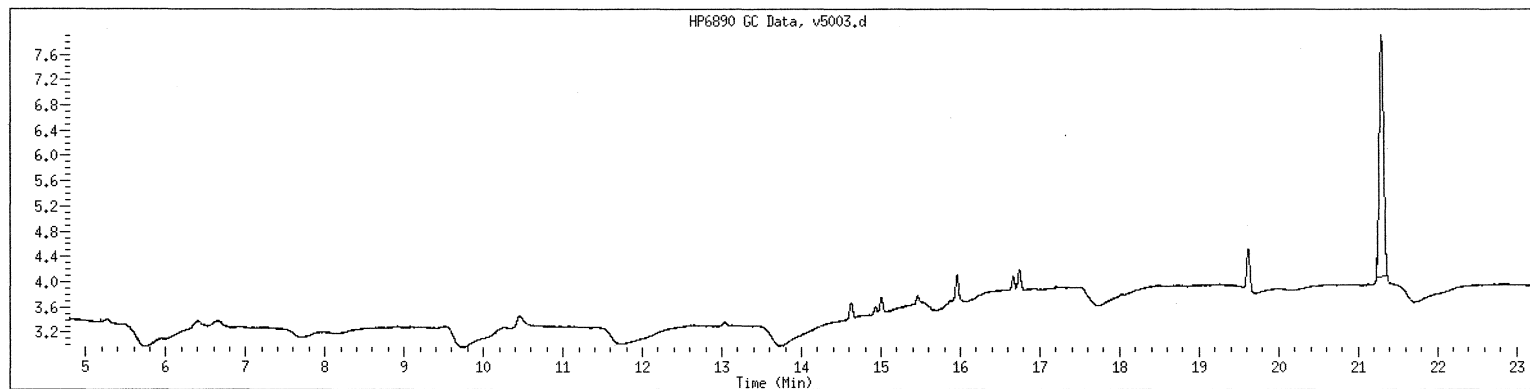
Column phase: DB-624-30



211109124 294

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : BLK
Injection Date: 11/07/2011 12:21
Operator : JAR
Sample Info : BLK
Misc Info :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon
SampleType : SAMPLE
Instrument : gcv5a.i
Compound Sublist: aliphatic1+surr



NO MANUAL INTEGRATIONS

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: LCS1003188
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211103124
 Sample wt/vol: 5 Units: mL Lab Sample ID: 1003188
 Level: (low/med) _____ Date Collected: _____ Time: _____
 % Moisture: _____ decanted: (Y/N) _____ Date Received: _____
 GC Column: _____ ID: _____ (mm) Date Extracted: _____
 Concentrated Extract Volume: 5000 (µL) Date Analyzed: 11/07/11 Time: 1151
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: JAR
 Injection Volume: 1 (µL) Prep Method: _____
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSVPH
 Prep Batch: _____ Analytical Batch: 468512 Sulfur Cleanup: (Y/N) N Instrument ID: GCV5B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111107/v5002

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCV-00-4	C5-C8 Aliphatic	152		3.31	15.0	30.0
GCV-00-5	C9-C12 Aliphatic	105		3.20	10.0	20.0
GCV-00-6	C9-C10 Aromatic	54.4		1.24	5.00	10.0

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5002.d

Lab Smp Id: 1003188 Client Smp ID: 1003188

Inj Date : 07-NOV-2011 11:51

Operator : JAR Inst ID: gcv5b.i

Smp Info : 1003188

Misc Info : lcs6/12/4

Comment :

Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m

Meth Date : 08-Nov-2011 13:39 jar Quant Type: ESTD

Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d

Als bottle: 1 QC Sample: LCS

Dil Factor: 1.00000

Integrator: Falcon Compound Sublist: aromatic.sub

Target Version: 3.50

Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

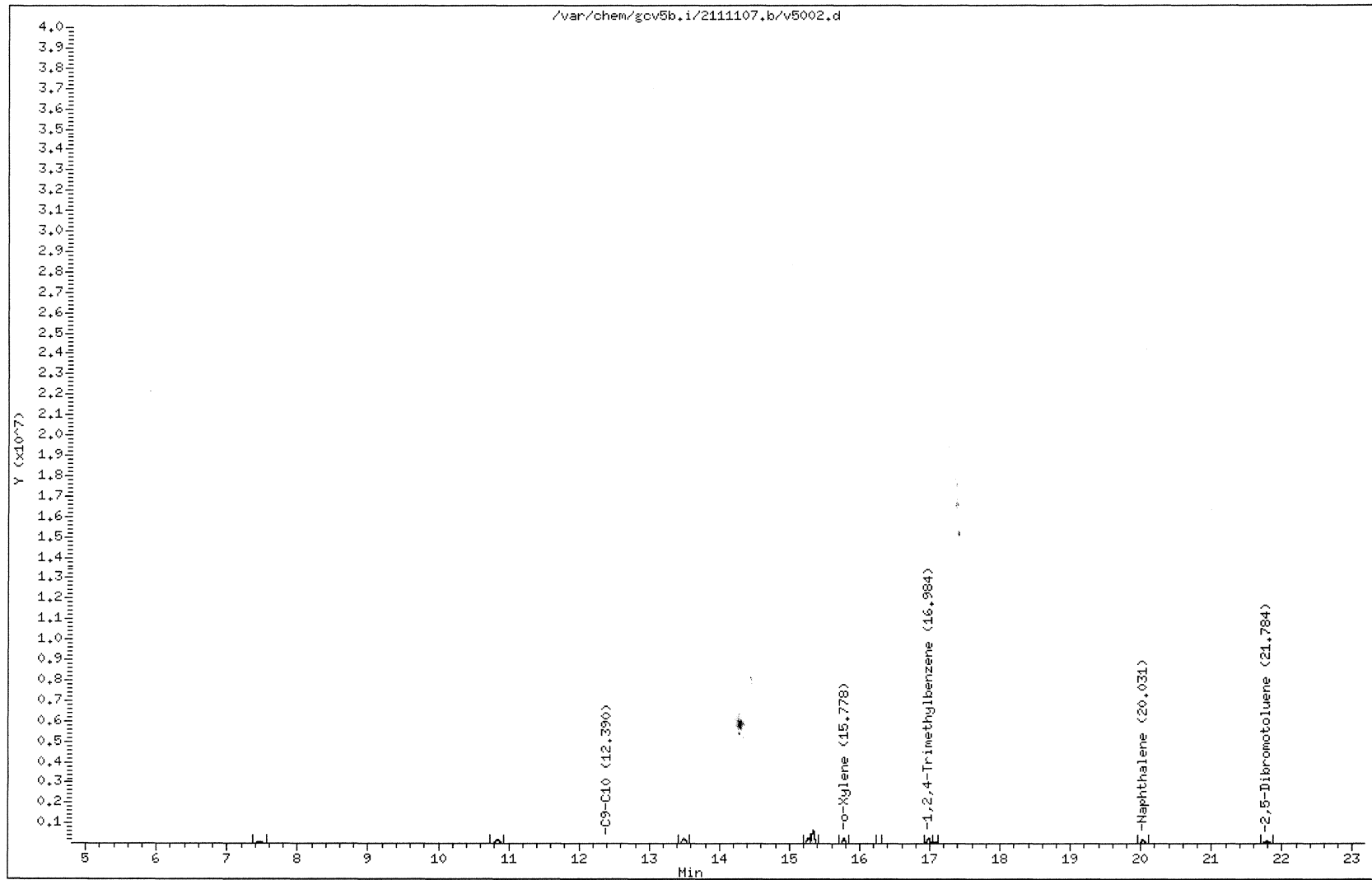
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
6 o-Xylene	15.778	15.777	0.001	709878	52.3134	52.3
7 1,2,4-Trimethylbenzene	16.984	16.983	0.001	655039	54.4552	54.4
M 9 C9-C10				655039	54.4552	54.4
8 Naphthalene	20.031	20.028	0.003	556525	54.6350	54.6
\$ 10 2,5-Dibromotoluene	21.784	21.781	0.003	365094	52.2155	52.2

Data File: /var/chem/gcv5b.i/2111107.b/v5002.d
Date : 07-NOV-2011 11:51
Client ID: 1003188
Sample Info: 1003188
Volume Injected (uL): 1.0
Column phase: DB-624-30

Page 1

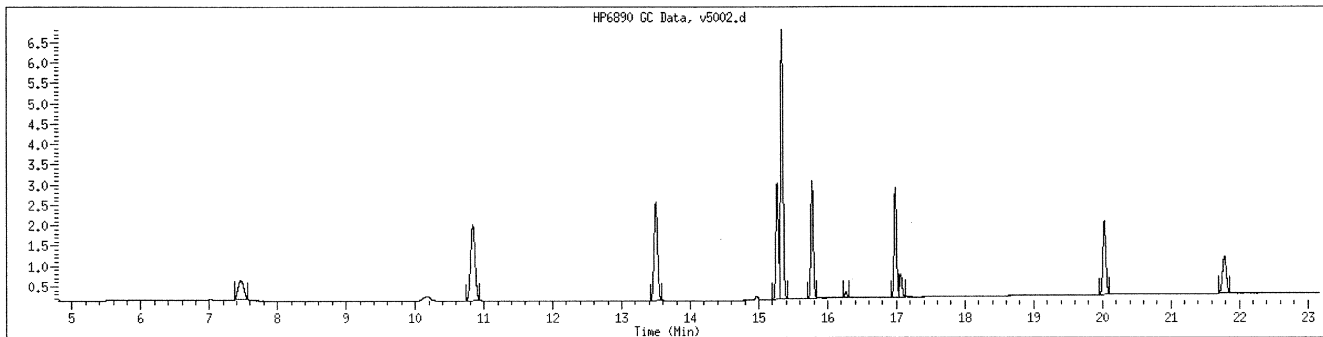
Instrument: gcv5b.i
Operator: JAR
Column diameter: 0.53



211103124 298

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1003188 SampleType : LCS
Injection Date: 11/07/2011 11:51 Instrument : gcv5b.i
Operator : JAR
Sample Info : 1003188
Misc Info : lcs6/12/4
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5002.d
 Lab Smp Id: lcs6/12/4
 Inj Date : 07-NOV-2011 11:51
 Operator : JAR
 Smp Info : lcs6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
 Meth Date : 07-Nov-2011 10:29 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5a.i
 Quant Type: ESTD
 Cal File: v5011.d
 QC Sample: LCS
 Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
M 2 C5-C8				1496403	152.268	152
1 n-Pentane	5.269	5.263	0.006	446597	49.6209	49.6
3 2-Methyl Pentane	6.485	6.480	0.005	522005	50.0112	50.0
6 Isooctane	9.564	9.557	0.007	527801	52.6359	52.6 (M1)
13 n-Decane	15.962	15.959	0.003	281892	50.7463	50.7
15 n-Butylcyclohexane	16.744	16.742	0.002	324847	54.5185	54.5
16 Naphthalene	19.621	19.617	0.004	473106	53.4382	53.4
M 5 C9-C12				606739	105.265	105
§ 17 2,5-Dibromotoluene	21.296	21.294	0.002	146985	49.1646	49.2

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Date : 07-NOV-2011 11:51

Client ID:

Instrument: gov5a.i

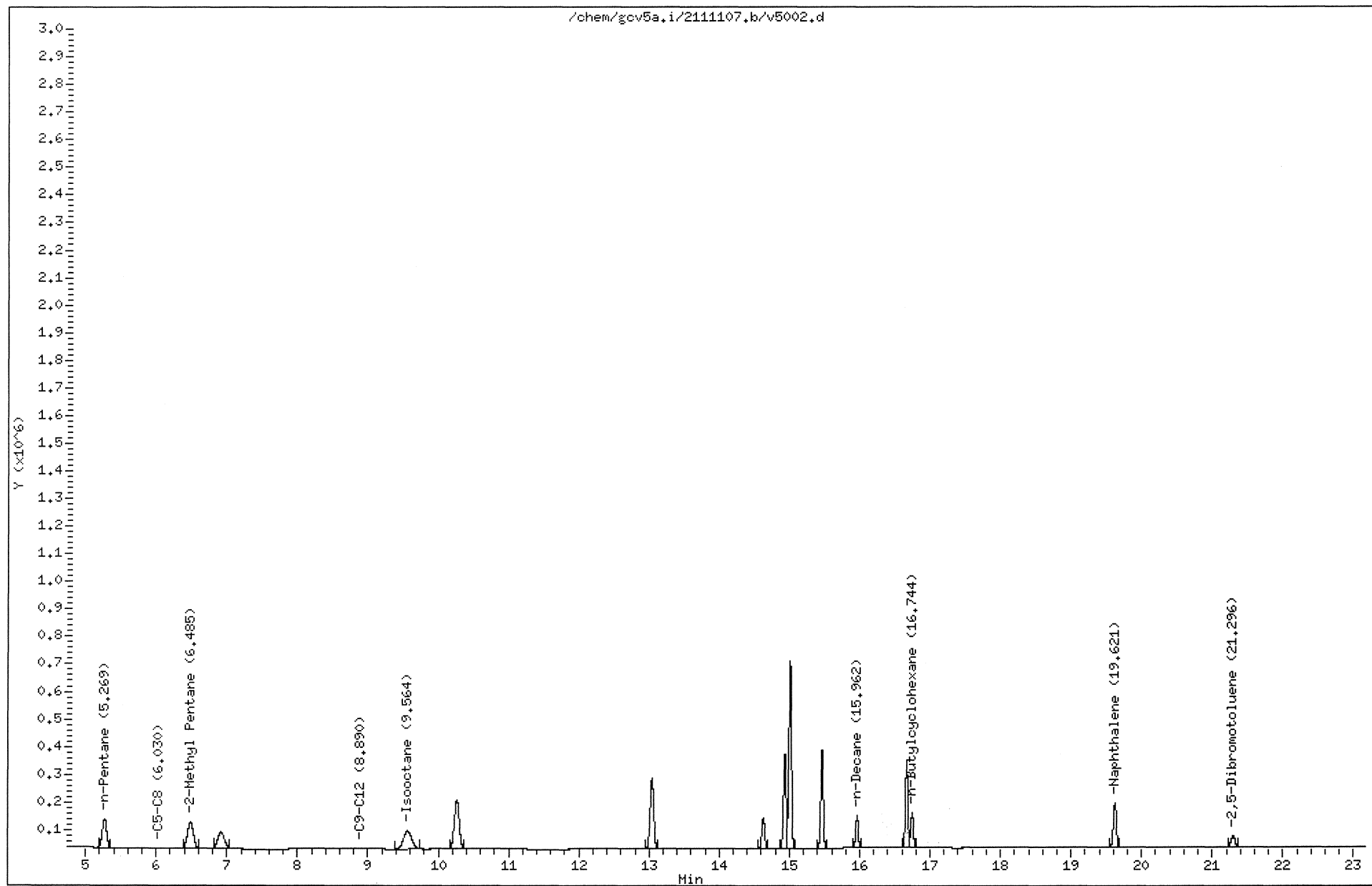
Sample Info: lcs6/12/4

Operator: JAR

Volume Injected (uL): 1.0

Column diameter: 0.53

Column phase: DB-624-30

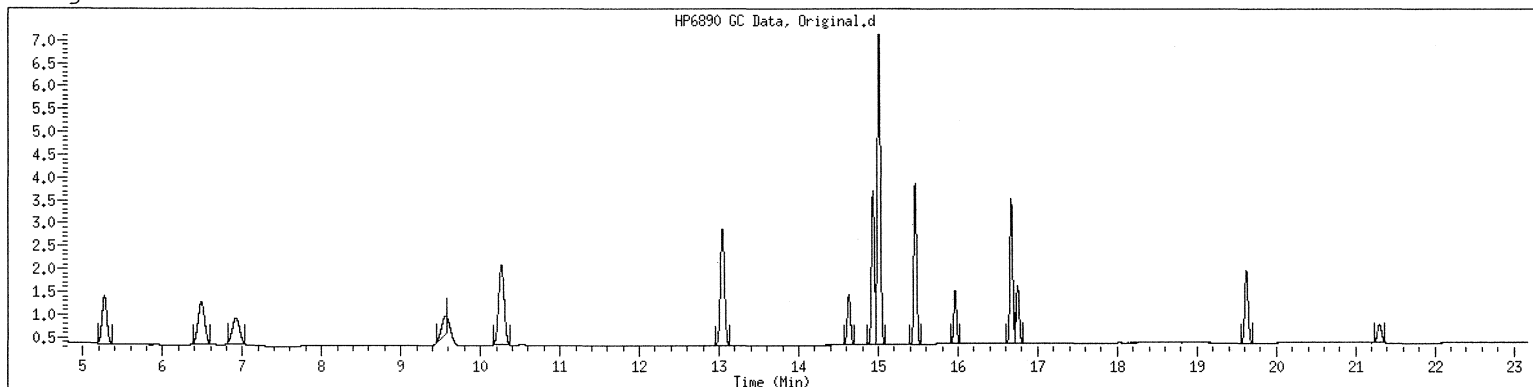


211103124 302

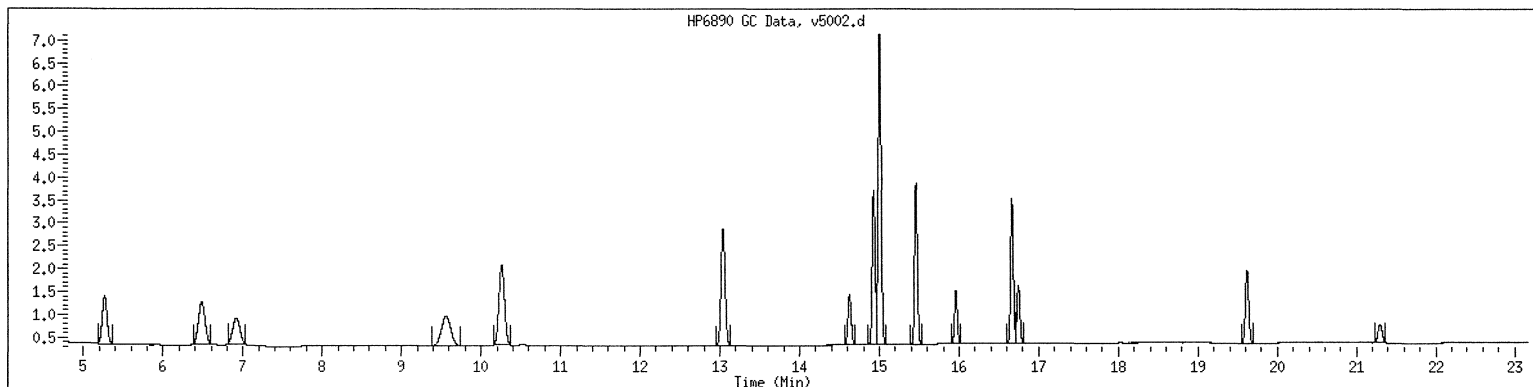
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : lcs6/12/4 SampleType : LCS
Injection Date: 11/07/2011 11:51 Instrument : gcv5a.i
Operator : JAR
Sample Info : lcs6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: ES047 MS
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211103124
 Sample wt/vol: 5 Units: mL Lab Sample ID: 21110312403
 Level: (low/med) _____ Date Collected: 10/24/11 Time: 0830
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 10/29/11
 GC Column: _____ ID: _____ (mm) Date Extracted: _____
 Concentrated Extract Volume: 5000 (µL) Date Analyzed: 11/07/11 Time: 1925
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 10 Analyst: JAR
 Injection Volume: 1 (µL) Prep Method: _____
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSVPH
 Prep Batch: _____ Analytical Batch: 468512 Sulfur Cleanup: (Y/N) N Instrument ID: GCV5B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111107/5014

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCV-00-4	C5-C8 Aliphatic	1440		33.1	150	300
GCV-00-6	C9-C10 Aromatic	739		12.4	50.0	100
GCV-00-5	C9-C12 Aliphatic	1760		32.0	100	200

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5014.d

Lab Smp Id: 21110312403 Client Smp ID: 21110312403

Inj Date : 07-NOV-2011 19:25

Operator : JAR Inst ID: gcv5b.i

Smp Info : 21110312403*10

Misc Info :

Comment :

Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m

Meth Date : 08-Nov-2011 13:36 jar Quant Type: ESTD

Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d

Als bottle: 1 QC Sample: MS

Dil Factor: 10.00000

Integrator: Falcon Compound Sublist: aromatic.sub

Target Version: 3.50

Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

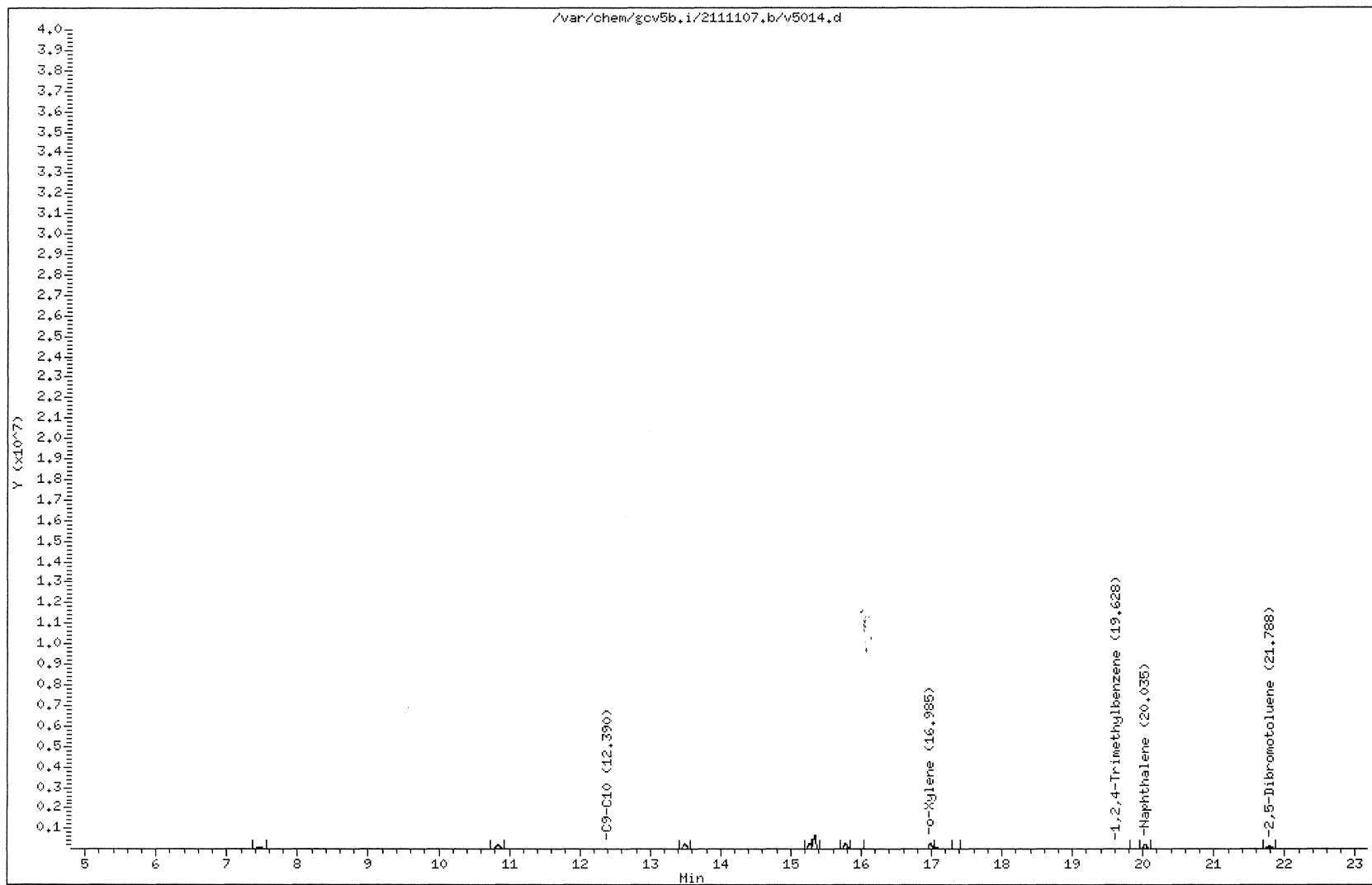
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
6 o-Xylene	16.985	15.777	1.208	722379	53.2347	532(M1)
7 1,2,4-Trimethylbenzene	19.628	16.983	2.645	166981	13.8816	139(RM1)
M 9 C9-C10				889360	73.9349	739(R)
8 Naphthalene	20.035	20.028	0.007	553290	54.3174	543
S 10 2,5-Dibromotoluene	21.788	21.781	0.007	371390	53.1159	531

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
 M1- Compound response manually integrated because
 Target system did not integrate.

Data File: /var/chem/gcv5b.i/2111107.b/v5014.d
Date : 07-NOV-2011 19:25
Client ID: 21110312403
Sample Info: 21110312403*10
Volume Injected (uL): 1.0
Column phase: DB-624-30

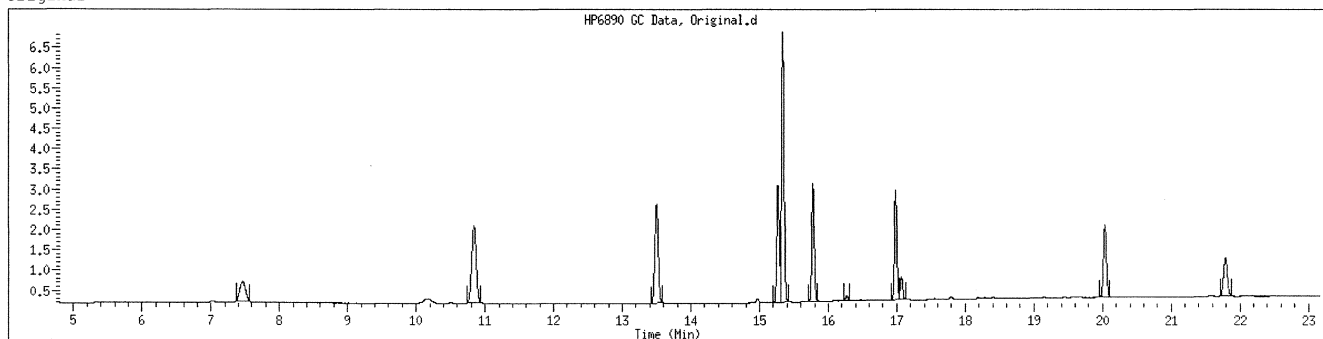
Instrument: gcv5b.i
Operator: JAR
Column diameter: 0.53



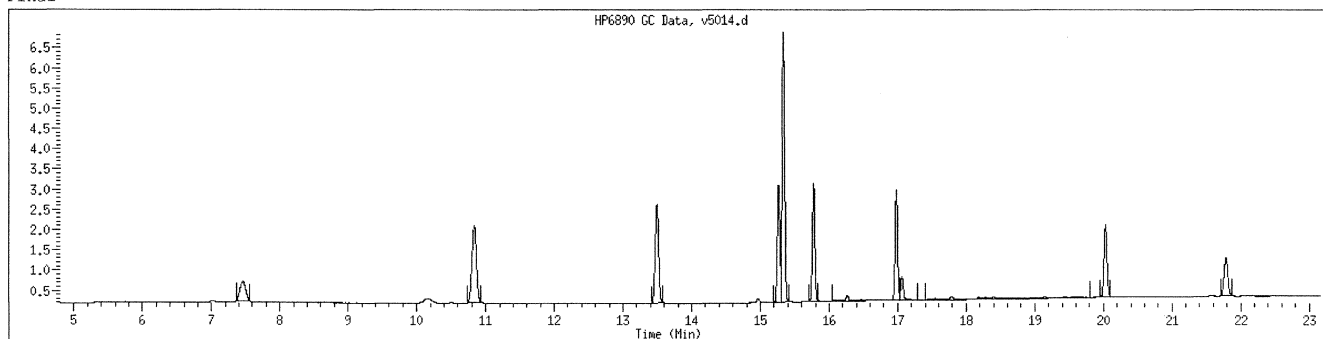
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312403 SampleType : MS
Injection Date: 11/07/2011 19:25 Instrument : gcv5b.i
Operator : JAR
Sample Info : 21110312403*10
Misc Info :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 10.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic

Original



Final



GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5014.d
 Lab Smp Id: 21110312403 Client Smp ID: 21110312403
 Inj Date : 07-NOV-2011 19:25
 Operator : JAR Inst ID: gcv5a.i
 Smp Info : 21110312403*10
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
 Meth Date : 08-Nov-2011 10:11 jar Quant Type: ESTD
 Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d
 Als bottle: 1
 Dil Factor: 10.00000
 Integrator: Falcon Compound Sublist: aliphatic1+surr.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
M 2 C5-C8				1417508	144.336	1440
1 n-Pentane	5.266	5.266	0.000	437501	48.6103	486
3 2-Methyl Pentane	6.482	6.482	0.000	512046	49.0571	490
6 Isooctane	9.562	9.562	0.000	467961	46.6682	467
13 n-Decane	15.963	15.963	0.000	303160	54.5751	546 (M1)
15 n-Butylcyclohexane	16.746	16.746	0.000	726489	121.925	1220 (AM1)
16 Naphthalene	19.623	19.623	0.000	471380	53.2433	532
M 5 C9-C12				1029649	176.500	1760
\$ 17 2,5-Dibromotoluene	21.300	21.301	-0.001	151837	50.7875	508

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M1- Compound response manually integrated because Target system did not integrate.

Date : 07-NOV-2011 19:25

Client ID: 21110312403

Instrument: gcv5a.i

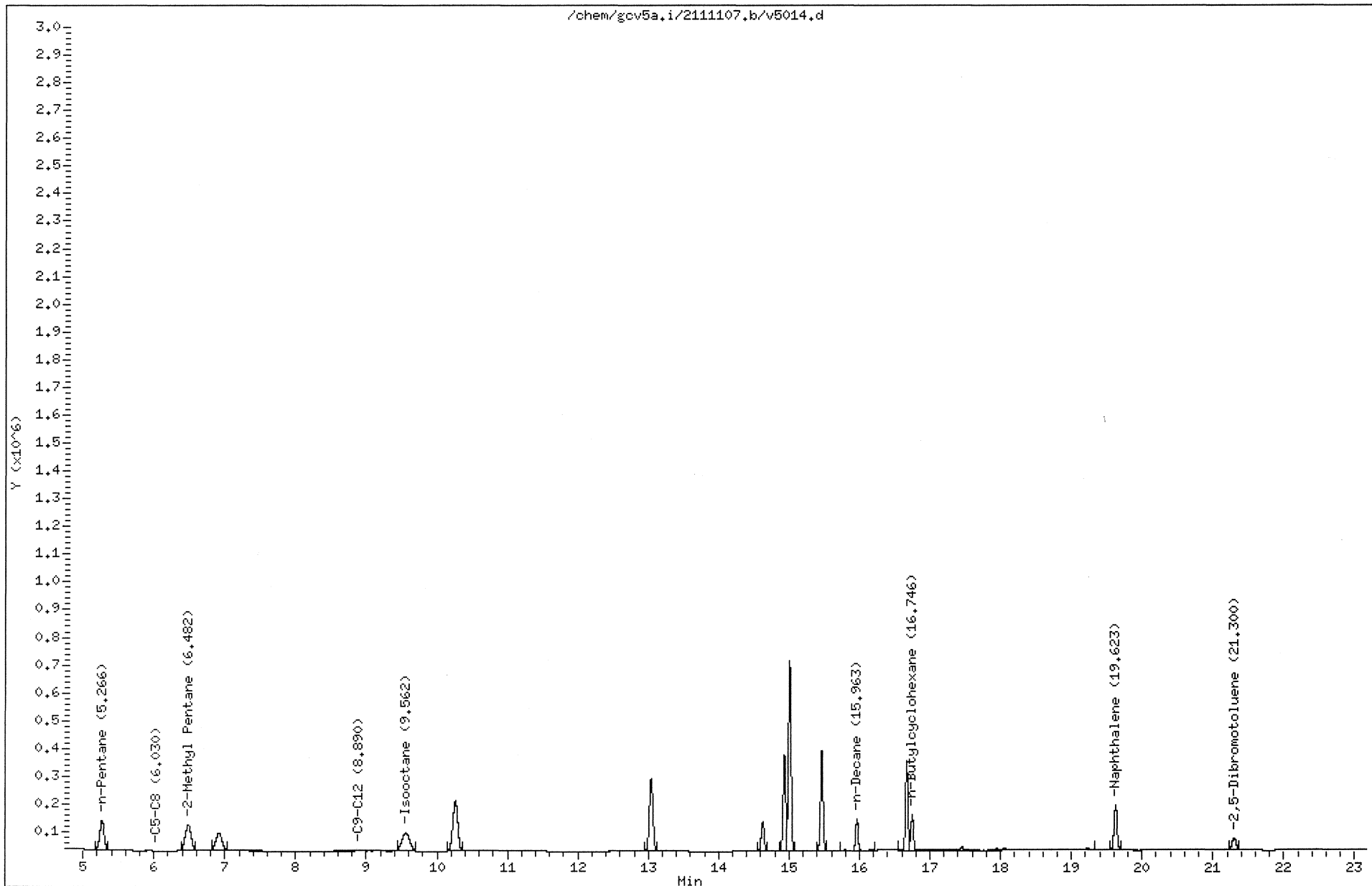
Sample Info: 21110312403*10

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

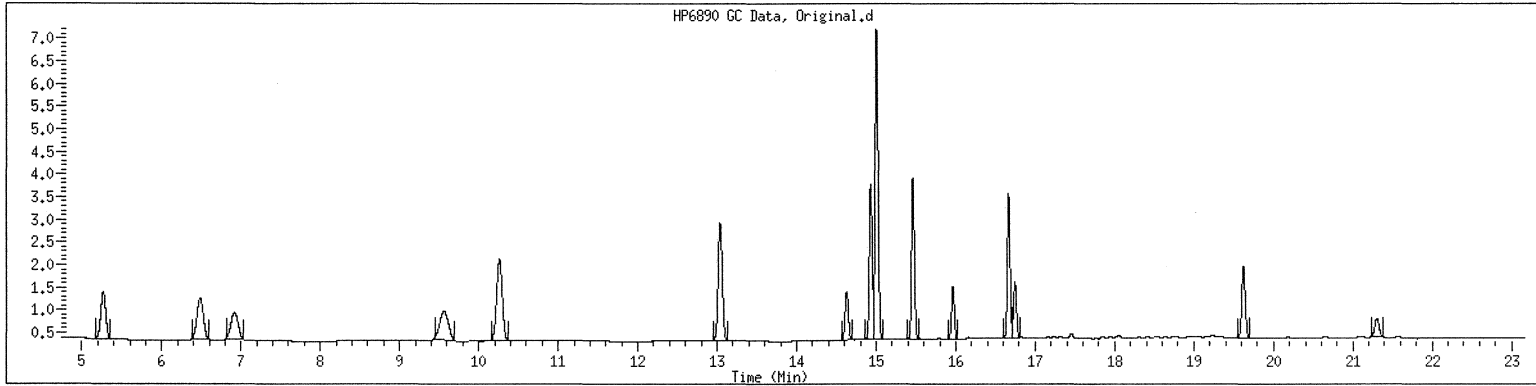
Column diameter: 0.53



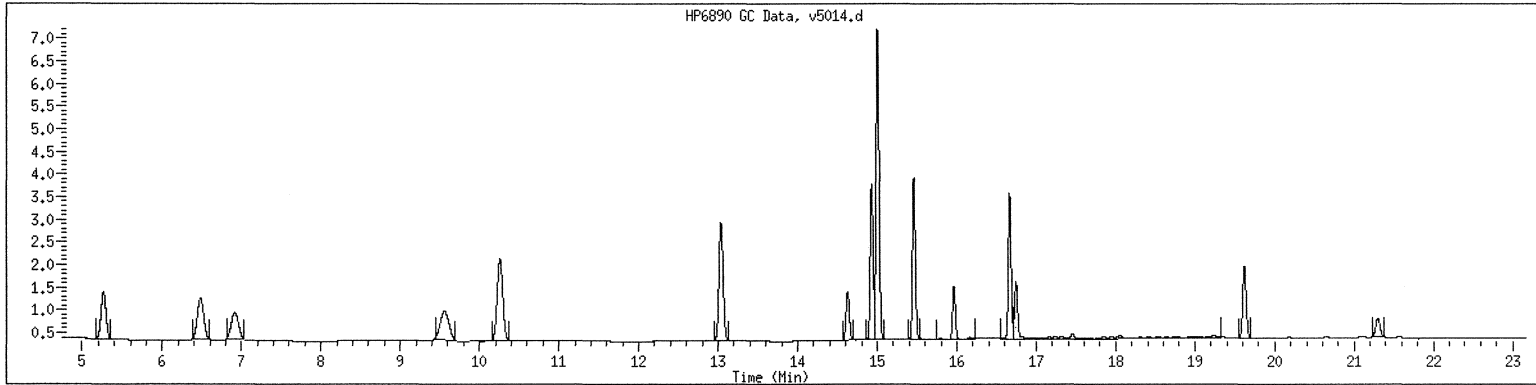
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312403 SampleType : SAMPLE
Injection Date: 11/07/2011 19:25 Instrument : gcv5a.i
Operator : JAR
Sample Info : 21110312403*10
Misc Info :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Dilution : 10.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: ES047 MSD
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211103124
 Sample wt/vol: 5 Units: mL Lab Sample ID: 21110312404
 Level: (low/med) _____ Date Collected: 10/24/11 Time: 0830
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 10/29/11
 GC Column: _____ ID: _____ (mm) Date Extracted: _____
 Concentrated Extract Volume: 5000 (μ L) Date Analyzed: 11/07/11 Time: 1955
 Soil Aliquot Volume: _____ (μ L) Dilution Factor: 10 Analyst: JAR
 Injection Volume: 1 (μ L) Prep Method: _____
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSVPH
 Prep Batch: _____ Analytical Batch: 468512 Sulfur Cleanup: (Y/N) N Instrument ID: GCV5B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111107/v5015

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCV-00-4	C5-C8 Aliphatic	1440		33.1	150	300
GCV-00-6	C9-C10 Aromatic	688		12.4	50.0	100
GCV-00-5	C9-C12 Aliphatic	1560		32.0	100	200

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5015.d
 Lab Smp Id: 21110312404 Client Smp ID: 21110312404
 Inj Date : 07-NOV-2011 19:55
 Operator : JAR Inst ID: gcv5b.i
 Smp Info : 21110312404*10
 Misc Info :
 Comment :
 Method : /var/chem/gcv5b.i/2111107.b/PIDMVP.H.m
 Meth Date : 08-Nov-2011 13:36 jar Quant Type: ESTD
 Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d
 Als bottle: 1 QC Sample: MSD
 Dil Factor: 10.00000
 Integrator: Falcon Compound Sublist: aromatic.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
6 o-Xylene	16.983	15.777	1.206	671639	49.4955	495 (M1)
7 1,2,4-Trimethylbenzene	17.065	16.983	0.082	156074	12.9749	130 (RM1)
M 9 C9-C10				827713	68.8100	688 (R)
8 Naphthalene	20.031	20.028	0.003	538473	52.8628	529
\$ 10 2,5-Dibromotoluene	21.784	21.781	0.003	363301	51.9591	520

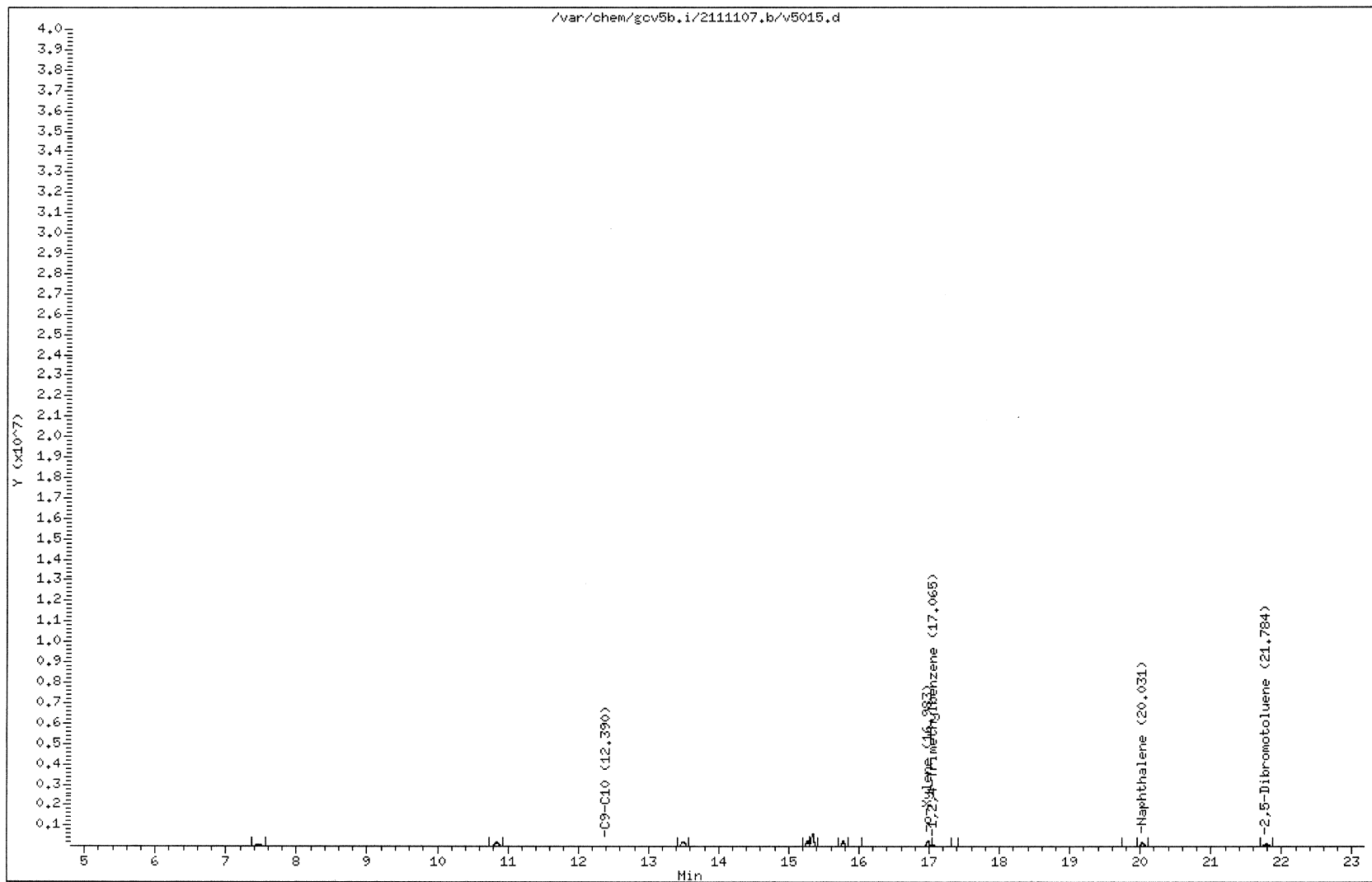
QC Flag Legend

R - Spike/Surrogate failed recovery limits.
 M1- Compound response manually integrated because
 Target system did not integrate.

Data File: /var/chem/gcv5b.i/2111107.b/v5015.d
Date : 07-NOV-2011 19:55
Client ID: 21110312404
Sample Info: 21110312404*10
Volume Injected (uL): 1.0
Column phase: DB-624-30

Page 1

Instrument: gcv5b.i
Operator: JAR
Column diameter: 0.53

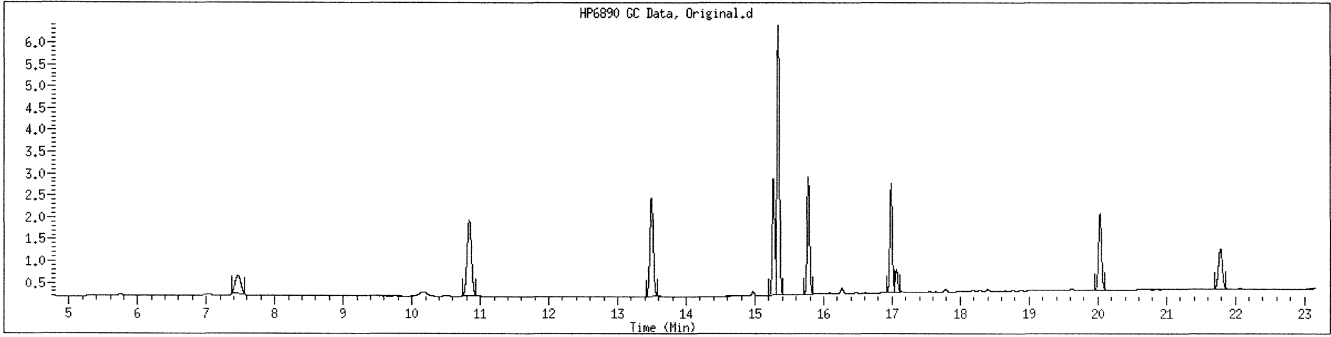


211103124 314

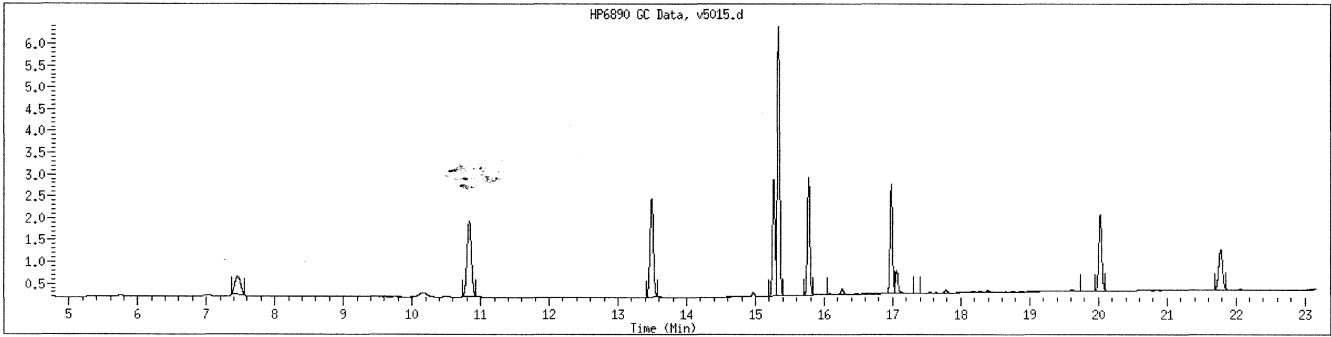
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312404 SampleType : MSD
Injection Date: 11/07/2011 19:55 Instrument : gcv5b.i
Operator : JAR
Sample Info : 21110312404*10
Misc Info :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 10.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic

Original



Final



GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5015.d
 Lab Smp Id: 21110312404 Client Smp ID: 21110312404
 Inj Date : 07-NOV-2011 19:55
 Operator : JAR Inst ID: gcv5a.i
 Smp Info : 21110312404*10
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
 Meth Date : 08-Nov-2011 10:11 jar Quant Type: ESTD
 Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d
 Als bottle: 1
 Dil Factor: 10.00000
 Integrator: Falcon Compound Sublist: aliphatic1+surr.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
M 2 C5-C8				1418180	144.116	1440
1 n-Pentane	5.267	5.266	0.001	413778	45.9745	460 (M1)
3 2-Methyl Pentane	6.483	6.482	0.001	516302	49.4648	495 (M1)
6 Isooctane	9.561	9.562	-0.001	488099	48.6766	487 (M1)
13 n-Decane	15.961	15.963	-0.002	288918	52.0113	520 (M1)
15 n-Butylcyclohexane	16.744	16.746	-0.002	616692	103.498	1030 (AM1)
16 Naphthalene	19.620	19.623	-0.003	459623	51.9153	519
M 5 C9-C12				905611	155.510	1560
\$ 17 2,5-Dibromotoluene	21.296	21.301	-0.005	147772	49.4278	494

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M1- Compound response manually integrated because Target system did not integrate.

Date : 07-NOV-2011 19:55

Client ID: 21110312404

Instrument: gov5a.i

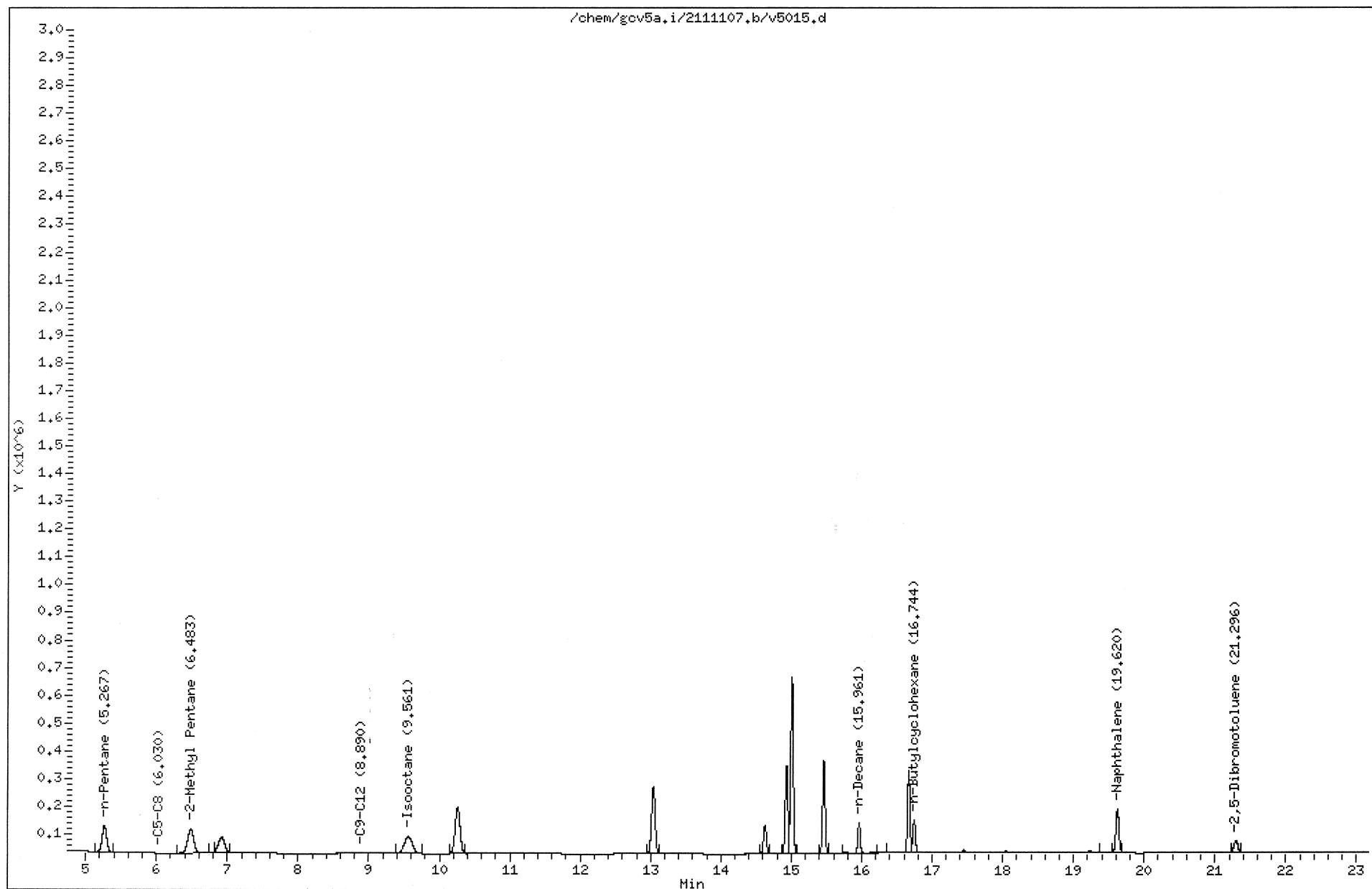
Sample Info: 21110312404*10

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

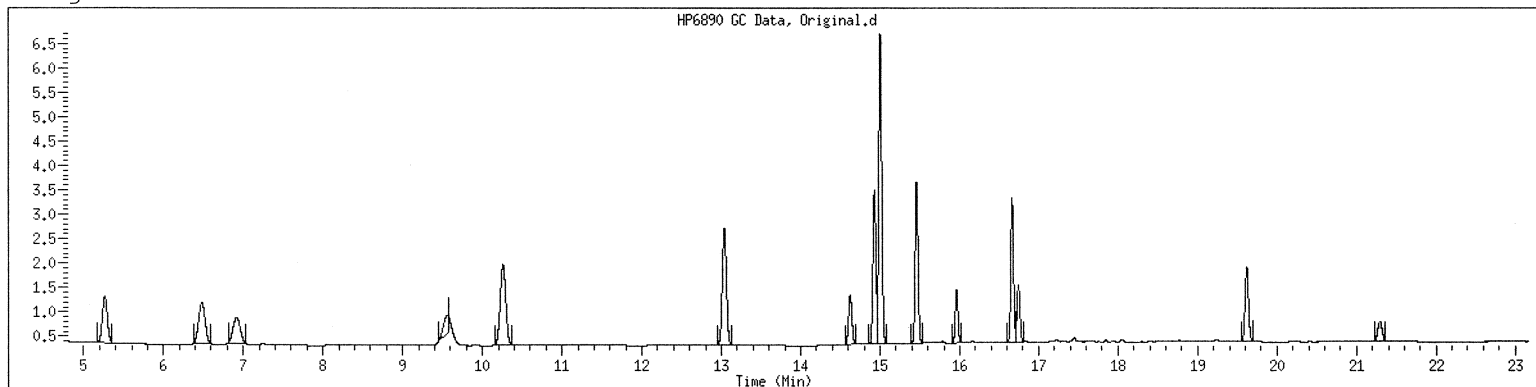


211103124 318

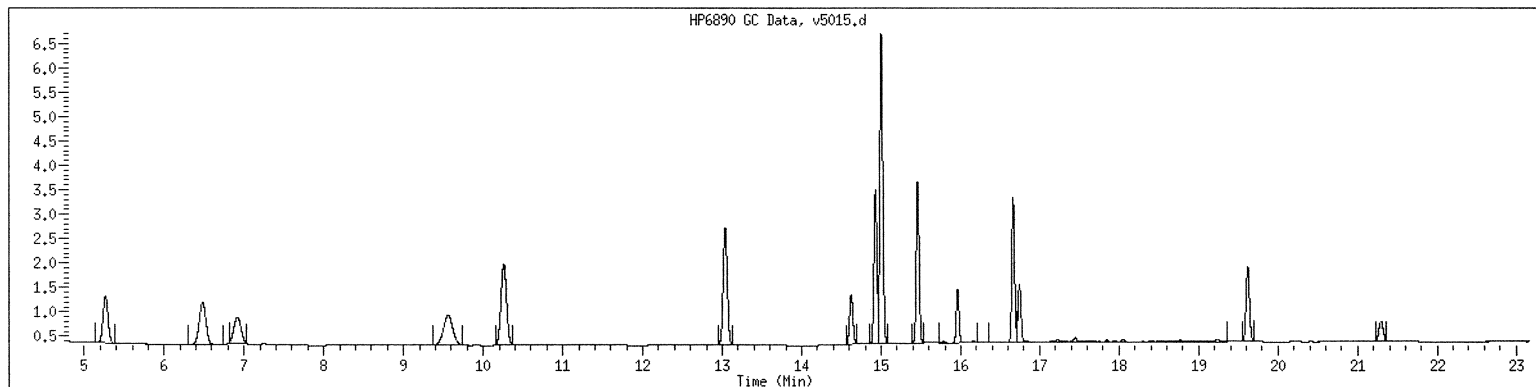
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312404 SampleType : SAMPLE
Injection Date: 11/07/2011 19:55 Instrument : gcv5a.i
Operator : JAR
Sample Info : 21110312404*10
Misc Info :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Dilution : 10.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



LABORATORY CHRONICLE: GCV DEPARTMENT

Date: 11/17/2011
 Instrument: gcv5b.i
 Method File: /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
 Batch: /chem/gcv5b.i/2111104P.b
 Column-Detector: DB-624-30

Sample ID	ClientName	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
VPH05/6/12/4		v5001.d	1.00 ml	04-NOV-2011 20:57	1.000	JAR	1	aromatic
VPH10/6/12/4		v5003.d	1.00 ml	04-NOV-2011 21:56	1.000	JAR	1	aromatic
VPH20/6/12/4		v5005.d	5.00 g	04-NOV-2011 22:55	50.000	JAR	1	aromatic
VPH50/6/12/4		v5007.d	1.00 ml	04-NOV-2011 23:54	1.000	JAR	1	aromatic
VPH80/6/12/4		v5009.d	1.00 ml	05-NOV-2011 00:53	1.000	JAR	1	aromatic
VPH100/6/12/4		v5011.d	1.00 ml	05-NOV-2011 01:52	1.000	JAR	1	aromatic
ICV6/12/5		v5013.d	5.00 g	05-NOV-2011 02:51	50.000	JAR	1	aromatic

LABORATORY CHRONICLE: GCV DEPARTMENT

Date: 11/08/2011
 Instrument: gcv5b.i
 Method File: /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
 Batch: /var/chem/gcv5b.i/2111107.b
 Column-Detector: DB-624-30

Sample ID	ClientName	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
VPH6/12/4		v5001.d	5.00 g	07-NOV-2011 11:22	50.000	JAR	1	aromatic
1003188		v5002.d	1.00 ml	07-NOV-2011 11:51	1.000	JAR	1	aromatic
1003187		v5003.d	1.00 ml	07-NOV-2011 12:21	1.000	JAR	1	aromatic
BLK		v5004.d	5.00 g	07-NOV-2011 12:50	50.000	JAR	1	aromatic
21110202112		v5005.d	1.00 ml	07-NOV-2011 13:19	50.000	JAR	1	aromatic
21110202112		v5006.d	1.00 ml	07-NOV-2011 13:49	50.000	JAR	1	aromatic
21110202105		v5007.d	5.00 g	07-NOV-2011 14:18	10000.000	JAR	1	aromatic
21110202105		v5008.d	5.00 g	07-NOV-2011 14:48	10000.000	JAR	1	aromatic
21110202112		v5009.d	5.00 g	07-NOV-2011 15:17	50.000	JAR	1	aromatic
21110202112		v5010.d	1.00 ml	07-NOV-2011 15:47	50.000	JAR	1	aromatic
VPH6/12/4		v5011.d	5.00 g	07-NOV-2011 16:16	50.000	JAR	1	aromatic
21110312401		v5012.d	1.00 ml	07-NOV-2011 18:26	10.000	JAR	1	aromatic
21110312402		v5013.d	1.00 ml	07-NOV-2011 18:55	10.000	JAR	1	aromatic
21110312403		v5014.d	1.00 ml	07-NOV-2011 19:25	10.000	JAR	1	aromatic
21110312404		v5015.d	1.00 ml	07-NOV-2011 19:55	10.000	JAR	1	aromatic
21110312408		v5016.d	1.00 ml	07-NOV-2011 21:53	1.000	JAR	1	aromatic
21110312406		v5017.d	1.00 ml	07-NOV-2011 20:54	1.000	JAR	1	aromatic
21110312407		v5018.d	1.00 ml	07-NOV-2011 21:23	1.000	JAR	1	aromatic
21110312409		v5019.d	1.00 ml	07-NOV-2011 22:22	1.000	JAR	1	aromatic
21110312410		v5020.d	1.00 ml	07-NOV-2011 22:52	1.000	JAR	1	aromatic
VPH6/12/4		v5021.d	1.00 ml	07-NOV-2011 23:22	1.000	JAR	1	aromatic
VPH6/12/4		v5022.d	1.00 ml	07-NOV-2011 23:51	1.000	JAR	1	aromatic
21110312411		v5023.d	1.00 ml	08-NOV-2011 00:21	1.000	JAR	1	aromatic
21110312412		v5024.d	1.00 ml	08-NOV-2011 00:50	1.000	JAR	1	aromatic
21111042101		v5025.d	1.00 ml	08-NOV-2011 01:20	1.000	JAR	1	aromatic
VPH6/12/4		v5026.d	1.00 ml	08-NOV-2011 01:49	1.000	JAR	1	aromatic
21110312405		v5028.d	1.00 ml	08-NOV-2011 11:23	1.000	JAR	1	aromatic
21110312409		v5029.d	1.00 ml	08-NOV-2011 11:52	1.000	JAR	1	aromatic
21110312410		v5030.d	1.00 ml	08-NOV-2011 12:22	1.000	JAR	1	aromatic
vph6/12/4		v5031.d	1.00 ml	08-NOV-2011 12:51	1.000	JAR	1	aromatic

LABORATORY CHRONICLE: GCV DEPARTMENT

Date: 11/17/2011

Instrument: gcv5a.i

Method File: /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m

Batch: /chem/gcv5a.i/2111104p.b

Column-Detector: DB-624-30

Sample ID	ClientName	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
VPH05/6/12/4		v5001.d	1.00 ml	04-NOV-2011 20:57	1.000	JAR	1	aliphatic1+surr
VPH10/6/12/4		v5003.d	1.00 ml	04-NOV-2011 21:56	1.000	JAR	1	aliphatic1+surr
VPH20/6/12/4		v5005.d	1.00 ml	04-NOV-2011 22:55	1.000	JAR	1	aliphatic1+surr
VPH50/6/12/4		v5007.d	1.00 ml	04-NOV-2011 23:54	1.000	JAR	1	aliphatic1+surr
VPH80/6/12/4		v5009.d	1.00 ml	05-NOV-2011 00:53	1.000	JAR	1	aliphatic1+surr
VPH100/6/12/4		v5011.d	1.00 ml	05-NOV-2011 01:52	1.000	JAR	1	aliphatic1+surr
ICV6/12/5		v5013.d	1.00 ml	05-NOV-2011 02:51	1.000	JAR	1	aliphatic1+surr

LABORATORY CHRONICLE: GCV DEPARTMENT

Date: 11/08/2011

Instrument: gcv5a.i

Method File: /var/chem/gcv5a.i/2111107.b/FIDMVPH.m

Batch: /var/chem/gcv5a.i/2111107.b

Column-Detector: DB-624-30

Sample ID	ClientName	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
VPH6/12/4		v5001.d	1.00 ml	07-NOV-2011 11:22	1.000	JAR	1	aliphatic1+surr
lcs6/12/4		v5002.d	1.00 ml	07-NOV-2011 11:51	1.000	JAR	1	aliphatic1+surr
BLK		v5003.d	1.00 ml	07-NOV-2011 12:21	1.000	JAR	1	aliphatic1+surr
BLK		v5004.d	1.00 ml	07-NOV-2011 12:50	1.000	JAR	1	aliphatic1+surr
21110202112		v5005.d	1.00 ml	07-NOV-2011 13:19	100.000	JAR	1	aliphatic1+surr
21110202112		v5006.d	1.00 ml	07-NOV-2011 13:49	100.000	JAR	1	aliphatic1+surr
21110270701		v5007.d	5.00 g	07-NOV-2011 14:18	10000.000	JAR	1	aliphatic1+surr
21110270701		v5008.d	5.00 g	07-NOV-2011 14:48	10000.000	JAR	1	aliphatic1+surr
21110202112		v5009.d	1.00 ml	07-NOV-2011 15:17	50.000	JAR	1	aliphatic1+surr
21110202112		v5010.d	1.00 ml	07-NOV-2011 15:47	50.000	JAR	1	aliphatic1+surr
VPH6/12/4		v5011.d	1.00 ml	07-NOV-2011 16:16	1.000	JAR	1	aliphatic1+surr
21110312401		v5012.d	1.00 ml	07-NOV-2011 18:26	10.000	JAR	1	aliphatic1+surr
21110312402		v5013.d	1.00 ml	07-NOV-2011 18:55	10.000	JAR	1	aliphatic1+surr
21110312403		v5014.d	1.00 ml	07-NOV-2011 19:25	10.000	JAR	1	aliphatic1+surr
21110312404		v5015.d	1.00 ml	07-NOV-2011 19:55	10.000	JAR	1	aliphatic1+surr
21110312408		v5016.d	1.00 ml	07-NOV-2011 21:53	1.000	JAR	1	aliphatic1+surr
21110312406		v5017.d	1.00 ml	07-NOV-2011 20:54	1.000	JAR	1	aliphatic1+surr
21110312407		v5018.d	1.00 ml	07-NOV-2011 21:23	1.000	JAR	1	aliphatic1+surr
21110312409		v5019.d	1.00 ml	07-NOV-2011 22:22	1.000	JAR	1	aliphatic1+surr
21110312410		v5020.d	1.00 ml	07-NOV-2011 22:52	1.000	JAR	1	aliphatic1+surr
VPH6/12/4		v5021.d	1.00 ml	07-NOV-2011 23:22	1.000	JAR	1	aliphatic1+surr
VPH6/12/4		v5022.d	1.00 ml	07-NOV-2011 23:51	1.000	JAR	1	aliphatic1+surr
21110312411		v5023.d	1.00 ml	08-NOV-2011 00:21	1.000	JAR	1	aliphatic1+surr
21110312412		v5024.d	1.00 ml	08-NOV-2011 00:50	1.000	JAR	1	aliphatic1+surr
21111042101		v5025.d	1.00 ml	08-NOV-2011 01:20	1.000	JAR	1	aliphatic1+surr
VPH6/12/4		v5026.d	1.00 ml	08-NOV-2011 01:49	1.000	JAR	1	aliphatic1+surr
21110312405		v5028.d	1.00 ml	08-NOV-2011 11:23	1.000	JAR	1	aliphatic1+surr
21110312409		v5029.d	1.00 ml	08-NOV-2011 11:52	1.000	JAR	1	aliphatic1+surr
21110312410		v5030.d	1.00 ml	08-NOV-2011 12:22	1.000	JAR	1	aliphatic1+surr
vph6/12/4		v5031.d	1.00 ml	08-NOV-2011 12:51	1.000	JAR	1	aliphatic1+surr

General Accts/9000/211103124/11-8-11

SUBCONTRACT ORDER

APPL, Inc.

ARF: 66102

PO: 00-66102

SENDING LABORATORY:

APPL Labs
908 North Temperance Ave.
Clovis, CA 93611
Phone: (559) 275-2175
Fax: (559) 275-4422
Project Manager: Cynthia Clark (cclark@applinc.com) *rp*

RECEIVING LABORATORY:

Gulf Coast Analytical
7979 GSRI Rd.
Baton Rouge, LA 70820
Phone: (225) 769-4900x
Fax:
DOD Expiration Date:

Comments: Level IV report - DoD format (LOQ/LOD/DL), ADR (A1/A3 8.3a unchecked) EDD and Excel EDD

	APPL ID	Sample ID	LOC ID	Matrix	Collected	Analysis		Price
1.	AY49333	ES046		Water	10/24/11 09:55	MADEP-EPH	1	\$125.00
				Water	10/24/11 09:55	MADEP-VPH		\$75.00
2.	AY49334	ES047	<i>ms/msd</i>	Water	10/24/11 08:30	MADEP-EPH	<i>2,3,4</i>	\$125.00
				Water	10/24/11 08:30	MADEP-VPH		\$75.00
3.	AY49336	ES049		Water	10/24/11 14:35	MADEP-EPH	<i>5</i>	\$125.00
				Water	10/24/11 14:35	MADEP-VPH		\$75.00

5.9
5.8
3.4

4796 7085 3230

<i>Yang</i>	<i>10/28/11</i>	<i>14:30</i>					
Released By	Date	Time	Received By	Date	Time		
			<i>Chaucier</i>	<i>10/29/11</i>	<i>910</i>		
Released By	Date	Time	Received By	Date	Time		

To ensure timely payment, please include the PO number on your invoice

4796 7085 3231

4796 7085 3242



SAMPLE RECEIVING CHECKLIST

Workorder: 211103124

Client: 9000 - General Accounts

Profile: 227122 - Appl. Inc.

Line Item: 1 - Waters

Received by: Saucier, Charlotte

Received Date/Time: 10/29/2011 9:10:00 AM

Samples Received via: FEDEX

Number of Coolers Received: 3

Cooler tracking numbers(s): 4796 7085 3220 / 4796 7085 3231 / 4796 7085 3242

Cooler temperature(s): 5.9, 5.8, 3.4

- Were all coolers received at a temperature of 0 - 6° C? Yes No N/A
- Were all custody seals intact? Yes No N/A
- Were all samples received in proper containers? Yes No N/A
- Were all samples properly preserved? Yes No N/A
- Was preservative added to any container at the lab? Yes No N/A
- Were all containers received in good condition? Yes No N/A
- Were all VOA vials received with no head space? Yes No N/A
- Do all sample labels match the Chain of Custody? Yes No N/A
- Was the client notified about any discrepancies? Yes No N/A

Notes/Comments: _____



908 North Temperance Ave. ▽ Clovis, CA 93611 ▽ Phone 559-275-2175 ▽ Fax 559-275-4422

Certification Number: CA1312
NELAP Certification number: 05233CA
DoD-ELAP Certificate number: ADE-1410

Data Validatable Report

December 12, 2011

Environet, Inc.
650 Iwilei Road, Suite 204
Honolulu, Hawaii 96817

Attn: Stacey Fineran

Title: Report of Data: Case 66116

Project: 1022-024 LTM Red Hill Bulk Fuel Storage Facility

Contract #: Prime contract # for DoD: N62742-08-D-1930, CTO HC21

Dear Ms. Fineran:

Samples were received October 27, 2011, in good condition. Written results for the requested analyses are provided on this December 12, 2011.

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

The MADEP-EPH and VPH analyses were subcontracted to Gulf coast Analytical Laboratories, Inc.

If you have any questions or require further information, please contact your APPL Project Manager, Diane Anderson, at your convenience. Thank you for choosing APPL, Inc.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC and DoD QSM. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

A handwritten signature in black ink, appearing to read "Sharon Dehmlow", written in a cursive style.

Sharon Dehmlow, Laboratory Director
APPL, Inc.

SD/rp
Enclosure
cc: File

Number of pages in this report: 420

Data Validation Package
for
LTM Red Hill Bulk Fuel Storage Facility
SDG 66116

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Sample Data	<u>377</u>
Calibration Data	<u>382</u>
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Gulf Coast Analytical Laboratories report

SAMPLE RECEIPT INFORMATION

Sample receipt information

ARF: 66116

Project: LTM Red Hill Bulk Fuel Storage Facility

Sample Receipt Information:

The samples were received on October 27, 2011, at 2.5°C. The samples were assigned Analytical Request Form (ARF) number 66116. The sample numbers and requested analyses were compared to the chain of custody and email communications. One bottle arrived broken for sample ES051; the client was notified. No other exception was encountered.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
ES050	AY49481	WATER	10/25/2011	10/27/2011
ES051	AY49482	WATER	10/25/2011	10/27/2011
ES052	AY49483	WATER	10/25/2011	10/27/2011

Samples and blanks were screened for J-value responses between the detection limit (DL) and limit of quantitation (LOQ).

APPL's laboratory control limits generated in house statistically do not meet the control limits listed in DoD QSM 4.2 for all analytes. Laboratory control spike recoveries for this project meet all control limits listed in the DoD QSM 4.2 except where noted. A copy of our in house generated control limits is available upon request. In addition, a copy of our LOQ control limits, established using 7 data points, are also available upon request.

Only the portion of the injection log relative to these samples is included. A full sequence log is available upon request.

Measurement uncertainty can be reported upon request.

The MADEP-EPH and VPH analyses were subcontracted to Gulf coast Analytical Laboratories, Inc. Their report is included.

CASE NARRATIVE

EPA Method 8015B

Total Petroleum Hydrocarbons – Diesel

Sample Preparation:

The water samples were extracted according to EPA method 3510C. The samples were extracted within holding time.

Sample Analysis Information:

The samples were analyzed according to the method using a Hewlett Packard Gas Chromatograph with a flame ionization detector.

Quality Control/Assurance

Calibrations:

Initial and continuing calibrations were performed according to the method. All calibration criteria were met.

Blanks:

No target analyte was detected above the detection limit in the method blank.

Spikes:

A Laboratory Control Spike (LCS) was used for quality assurance. All acceptance criteria were met.

No sample was designated for MS/MSD analysis.

Surrogates:

The surrogate recoveries are summarized on the form 2 & 8. All surrogate recoveries were within control limits.

Summary:

No other problem was encountered

EPA Method 8270D SIM

Polynuclear Aromatic Hydrocarbons

Sample Preparation:

The water samples were extracted according to EPA method 3510C. All holding times were met.

Sample Analysis Information:

The samples were analyzed according to EPA method 8270D using a Hewlett Packard Gas Chromatograph with a mass spectrometer detector in selective ion monitoring mode.

Quality Control/Assurance

Calibrations:

Initial and continuing calibrations were performed according to the method. All calibration criteria were met.

Blanks:

No target analyte was detected above the detection limits in the method blank.

Spikes:

A Laboratory Control Spike (LCS) was used for quality assurance. All spike criteria were met.

No sample was designated for MS/MSD analysis.

Surrogates

Surrogate recoveries are summarized on the forms 2&8. All surrogate recoveries were within control limits.

Tuning:

The instrument was tuned using DFTPP. All method criteria were met.

Internal Standards

The internal standard area counts were compared to the mid-point of the initial calibration according to method 8270. All method criteria were met.

Summary:

No problem was encountered.

EPA Method 8260B

Volatile Organic Analysis

Sample Preparation:

The water samples were purged according to EPA method 5030B. All holding times were met.

Sample Analysis Information:

The samples were analyzed according to the method using a Hewlett Packard Gas Chromatograph with a mass spectrometer detector. All samples were listed as non-preserved. All samples were injected within a seven day holding time. All holding times were met. Manual integrations were performed in accordance to APPL's SOP. All points of the gasoline curve, the gasoline second-source, and the gasoline continuing calibration required manual integrations because the integration did not follow the baseline. Chromatograms of prior to and after manual integrations are enclosed.

Quality Control/Assurance:

Calibrations:

Initial and continuing calibrations were performed according to the method. All system performance check compounds and calibration check compounds met DoD acceptance criteria. In the second-source 1030C28W.D, acetone recovered above the 20% Drift control limit at 30% Drift and 130% recovery. Acetone was within the LCS recovery limits, within the continuing calibration limits, and was not detected in any sample. All calibration criteria were met.

Blanks:

No target analyte was detected above the detection limits in the method blanks.

Spikes:

Laboratory Control Spikes (LCS) were used for quality assurance. A second-source standard was used for the LCS. All LCS criteria were met.

There was no sample designated by the client for MS/MSD analysis.

Surrogates:

Surrogate recoveries are summarized on Form 2 & 8. All surrogate recoveries were within the acceptance limits.

Tuning:

The instrument was tuned using BFB. All method criteria were met.

Internal Standards:

The internal standard area counts were compared to the mid-point of the initial calibration according to method 8260. All method criteria were met.

Summary:

No other problem was encountered. The data generated are acceptable.

EPA Method 6020

Dissolved Lead

Digestion Information:

The water samples were digested according to EPA methods 3015. All holding times were met.

Analysis Information:

Samples:

The samples were analyzed for dissolved lead according to EPA method 6020 using an Agilent 7500CX ICP-MS.

Calibrations:

The initial and continuing calibrations were analyzed according to the DoD QSM. The initial calibration verification is prepared from a second source standard.

Blanks:

No metal was detected at or above one-half the LOQ in the method blank.

Spikes:

Laboratory Control Spike (LCS), matrix spikes (MS/MSD), post digestion spike (PDS), and serial dilution were used for quality assurance. All LCS recoveries were within the acceptance limits.

Sample ES053 (ARF 66133) was selected by the laboratory as QC sample for the batch. The PDS and DT are reported in APPL report #66133.

Summary:

No analytical exception is noted.

Abbreviations and Flags

FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
M1	Manual integration: integration does not follow baseline
M2	Manual integration: non-target peak interference
M3	Manual integration: to split a peak that was integrated as one peak by the computer
M4	Manual integration: to integrate a split peak
M5	Manual integration: the whole peak or part of the peak was not integrated
M6	Manual integration: computer integrated wrong peak
M7	Manual integration: other - explain
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel.
Y	Percent difference between primary and confirmation column > 40%

**CHAIN OF CUSTODY,
ARF, CRF, AND
CLIENT COMMUNICATION**

APPL - Analysis Request Form

66116



Client: Environet, Inc.
 Address: 650 Iwilei Rd, #204
Honolulu, HI 96817
 Attn: Stacey Fineran
 Phone: 808-833-2225 Fax: 808-833-2231
 Job: RED HILL/1022-024
 PO #: 1022-015
 Chain of Custody (Y/N): Y # 31218
 RAD Screen (Y/N): Y pH (Y/N): Y
 Turn Around Type: 2 WEEKS

Received by: TBV
 Date Received: 10/27/11 Time: 10:40
 Delivered by: FED EX
 Shuttle Custody Seals (Y/N): Y Time Zone: HAST
 Chest Temp(s): 2.5°C
 Color: VOA,K-PURYELL,Q-ORYE
 Samples Chilled until Placed in Refrig/Freezer: Y
 Project Manager: Cynthia Clark
 QC Report Type: DVP4/ADR DOD/HI ✓
 Due Date: 11/10/11

Comments:
 14 day TAT for Form 1s & 30 day TAT for full package. VDupra@environetinc.com
 1 pdf on CD or FTP (no hard copy), NO hard copy to LDC per Stacy 2-24-11
 Guidance: DOD QSM, DoD Forms, J flag to DL, U flag at LOD
 EDD ADR A1/A3 (ADR 8.3a unchecked) to VDupra@ & sfineran@environetinc.com
 metals 6020: report Lead with 0.5ug/L RL
 TPH-Diesel only; VOCs: include gasoline by 8260B
 MA-EPH subcontracted to Gulf Coast Analytical.
 See attached email for sample breakage

<u>Sample Distribution:</u>	<u>Charges:</u>	<u>Invoice To:</u>
GC: 2-\$SIMHC12W, 2-\$TPETD2		
Extractions: 2- SEP004S, 2- SEP011		same
VOA: 3-\$86RHBF		
Metals: 2-\$602D(Pb)		
Other: 2- M3015, 2-SUB		

Client ID	APPL ID	Sampled	Analyses Requested
1. ES050	AY49481W 	10/25/11 09:50	\$602D(Pb), \$86RHBF, \$SIMHC12W, \$TPETD2, SUB -- unpreserved VOA vials
2. ES051	AY49482W 	10/25/11 11:30	\$602D(Pb), \$86RHBF, \$SIMHC12W, \$TPETD2, SUB -- unpreserved VOA vials
3. ES052	AY49483W 	10/25/11 07:00	\$86RHBF -- unpreserved VOA vials

APPL Sample Receipt Form

ARF# 66116

Sample	Container Type	Count	pH
AY49481	⁶ PL 500mL - HNO3	1	1.7
	¹³ VOAs - HCL	3	na
	¹⁵ VOAs - NP	4	na
	¹⁷ Amber Liter	3	na
	²⁶ Other	2	1.7
AY49482	⁶ PL 500mL - HNO3	1	1.7
	¹³ VOAs - HCL	3	na
	¹⁵ VOAs - NP	4	na
	¹⁷ Amber Liter	3	na
	²⁶ Other	1	1.7
AY49483	¹⁵ VOAs - NP	1	na

Sample	Container Type	Count	pH
<i>Other - 1 Liter amber HCL</i>			
↓			



APPL Labs
908 North Temperance Ave.
Clovis, CA 93611

Phone: (559) 275-2175

Fax: (559) 275-4422

CHAIN OF CUSTODY RECORD

66116

C.O.C. N^o 31218

Report to: PLEASE PRINT Company Name: <u>Environet</u> Address: <u>650 Iwilei Rd #204</u> <u>Honolulu, HI</u> Attn: <u>Stacey Fineran</u> Phone: <u>808 833-2225</u> Fax: <u>808 833-2231</u>	Invoice to: PLEASE PRINT Company Name: <u>Environet</u> Address: <u>650 Iwilei Rd #204</u> <u>Honolulu, HI</u> Attn: <u>Trisha Yasuda</u> Phone: <u>808 833-2225</u> Fax: <u>808 833-2231</u>
--	--

Project Name/Number <u>Rd Mill / 1022-024</u>		Sampler (Print) <u>Stacey Fineran</u>				Analysis Requested/Method Number							Date Shipped: <u>10/26/11</u>					
Purchase Order Number		Sampler (Signature) <u>Stacey</u>				EPA 8015B	TPH-DRD	EPA 8260	TPA-GRD	EPA 8260	VOCs	EPA 8270C	PAHs	EPA 6020	Distilled	MADEP-EPA	MADEP-VIPI	Carrier: <u>Fed Express</u>
Sample Identification	Location	Date Collected	Time Collected	Matrix	Number of Containers												Waybill No.:	
<u>ES050</u>	<u>RHSF</u>	<u>10/26/11</u>	<u>950</u>	<u>Ag</u>	<u>13</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	Comments:	
<u>ES051</u>	<u>RHSF</u>	<u>10/26/11</u>	<u>1130</u>	<u>Ag</u>	<u>13</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>ES052</u>	<u>RHSF</u>	<u>10/26/11</u>	<u>0700</u>	<u>Ag</u>	<u>1</u>			<u>X</u>										

15

Shuttle Temperature:	Turnaround Requested: MUST CHECK ONE <input checked="" type="checkbox"/> Standard (2-3 week) <input type="checkbox"/> One week <input type="checkbox"/> 24-48 hour				Sample Disposal: <input type="checkbox"/> Return to client <input checked="" type="checkbox"/> Disposal by Lab (30-day retention)		
Relinquished by sampler: <u>Stacey</u>	Date <u>10/26</u>	Time	Received by: <u>Fred EX</u>	Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:	Relinquished by:	Date <u>10/27/11</u>	Time <u>1040</u>	Received at lab by: <u>[Signature]</u>

White: Return to client with report Yellow: Laboratory Copy Pink: Sampler

COOLER RECEIPT FORM

1) Project: RED HILL/1022-024 Date Received: 10/27/11
2) Coolers: Number of Coolers:
3) YES NO Were coolers and samples screened for radioactivity?
4) YES NO Were custody seals on outside of cooler? How many? 2 Date on seal? 10/26/11
5) Name on seal? See label
6) YES NO NA Were custody seals unbroken and intact at the time of arrival?
7) YES NO Did the cooler come with a shipping slip (air bill, etc.)? Carrier name: Fed Ex
8) Shipping slip numbers: 1) 876249939/66 2) 3)
9) YES NO NA Was the shipping slip scanned into the database?
10) YES NO NA If cooler belongs to APPL, has it been logged into the ice chest database?
11) Describe type of packing in cooler (bubble wrap, popcorn, type of ice, etc.): bubble bag in Ziploc in wet ice

12) YES NO NA For hand delivered samples was sufficient ice present to start the cooling process?
13) YES NO Was a temperature blank included in the cooler?
14) Serial number of certified NIST thermometer used: A39267 Correction factor: 0
15) Cooler temp(s): 1) 2.5 (2) 3) 4) 5) 6) 7) 8)

Chain of custody:

16) YES NO Was a chain of custody received?
17) YES NO Were the custody papers signed in the appropriate places?
18) YES NO Was the project identifiable from custody papers?
19) YES NO Did the chain of custody include date and time of sampling?
20) YES NO Is location where sample was taken listed on the chain of custody?

Sample Labels:

21) YES NO Were container labels in good condition?
22) YES NO Was the client ID on the label?
23) YES NO Was the date of sampling on the label?
24) YES NO Was the time of sampling on the label?
25) YES NO Did all container labels agree with custody papers?

Sample Containers:

26) YES NO Were all containers sealed in separate bags?
27) YES NO Did all containers arrive unbroken?
28) YES NO Was there any leakage from samples?
29) YES NO Were any of the lids cracked or broken?
30) YES NO Were correct containers used for the tests indicated?
31) YES NO Was a sufficient amount of sample sent for tests indicated?
32) YES NO NA Were bubbles present in volatile samples? If yes, the following were received with air bubbles:
Larger than a pea:
Smaller than a pea: AV49483W01

Preservation & Hold time:

33) YES NO NA Was a sufficient amount of holding time remaining to analyze the samples?
34) YES NO NA Do the sample containers contain the same preservative as what is stated on the COC?
35) YES NO NA Was the pH taken of all non-VOA preserved samples and written on the sample container?
36) YES NO NA Was the pH of acid preserved non-VOA samples < 2 & sodium hydroxide preserved samples > 12?
37) YES NO NA Unpreserved VOA Vials received?
38) YES NO NA Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?

Lab notified if pH was not adequate:

Deficiencies: Received 1 Amber liter (HCL) broken, left for sample ES051

Signature of personnel receiving samples: [Signature] Second reviewer: [Signature]
Signature of project manager notified: [Signature] Date and Time of notification: 10-28-11
Name of client notified: Date and Time of notification:
Information given to client: by whom (Initials):

Initials: JT Date: 10/28
APPL, Inc. (559) 275-2175
CUSTODY SEAL

**EPA 8015 Modified
Total Petroleum Hydrocarbons**

**EPA 8015 Modified
Total Petroleum Hydrocarbons
QC Summary**

Method Blank
TPH Diesel Water

Blank Name/QCG: 111031W-49334 - 160886
Batch ID: #TPETD-111031A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	DIESEL FUEL	80.8 U	150	80.8	40.4	ug/L	10/31/11	11/06/11
BLANK	SURROGATE: OCTACOSANE (S)	71.2	28-142			%	10/31/11	11/06/11
BLANK	SURROGATE: ORTHO-TERPHEN	60.5	57-132			%	10/31/11	11/06/11

Quant Method: TPH1028.M
Run #: 1106005
Instrument: Apollo
Sequence: 111106
Initials: LA

GC SC-Blank-REG MDLs
Printed: 11/30/11 2:13:55 PM

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 66116

Case No: 66116

Date Analyzed: 11/06/11

Matrix: WATER

Instrument: Apollo

APPL ID.	Client Sample No.	SURROGATE: OCTACOSANE (S)			SURROGATE: ORTHO-TERPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
111031A-BLK	Blank	28-142	71.2		57-132	60.5	
AY49481	ES050	28-142	118		57-132	75.0	
AY49482	ES051	28-142	105		57-132	62.7	
111031A-LCS	Lab Control Spike	28-142	83.3		57-132	98.0	

Comments: Batch: #TPETD-111031A

Laboratory Control Spike Recovery

TPH Diesel Water

APPL ID: 111031W-49334 LCS - 160886
 Batch ID: #TPETD-111031A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
DIESEL FUEL	2000	1520	76.0	61-143
SURROGATE: OCTACOSANE (S)	150	125	83.3	28-142
SURROGATE: ORTHO-TERPHENYL (S)	150	147	98.0	57-132

Comments: _____

<u>Primary</u>	<u>SPK</u>
Quant Method :	TPH8S15.M
Extraction Date :	10/31/11
Analysis Date :	11/29/11
Instrument :	Apollo
Run :	1129017
Initials :	LA

Printed: 11/30/11 2:13:48 PM
 APPL Standard LCS

EPA 8015B-e

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 66116

Case No: 66116

Date Analyzed: 11/06/11

Matrix: WATER

Instrument: Apollo

Blank ID: 111031A-BLK

Time Analyzed: 1722

APPL ID.	Client Sample No.	File ID.	Date Analyzed
111031A-BLK	Blank	1108005	11/06/11 1722
AY49481	ES050	1108020	11/06/11 2313
AY49482	ES051	1106021	11/06/11 2336
111031A-LCS	Lab Control Spike	1129017	11/29/11 1845

Comments: Batch: #TPETD-111031A

Printed: 11/30/11 2:13:42 PM
Form 4, Blank Summary

**EPA 8015 Modified
Total Petroleum Hydrocarbons
Sample Data**

TPH Diesel Water

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

Attn: Stacey Fineran
Project: RED HILL/1022-024

Sample ID: ES050

Sample Collection Date: 10/25/11

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 86116

APPL ID: AY49481

QCG: #TPETD-111031A-160886

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-	DIESEL FUEL	80.8 U	150	80.8	40.4	ug/L	10/31/11	11/06/11
EPA 8015B-	SURROGATE: OCTACOSANE (S)	118	28-142			%	10/31/11	11/06/11
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (S)	75.0	57-132			%	10/31/11	11/06/11

Quant Method: TPH1028.M
Run #: 1106020
Instrument: Apollo
Sequence: 111106
Dilution Factor: 1
Initials: LA

Printed: 11/30/11 2:13:51 PM
APPL-F1-SC-NoMC-REG MDLs

Data File : G:\APOLLO\DATA\111106\1106020.D Vial: 20
 Acq On : 11-6-11 23:13:41 Operator: LAC
 Sample : AY49481W10 5/1040 Inst : Apollo
 Misc : Water Multiplr: 4.81
 IntFile : events.e
 Quant Time: Nov 7 10:05 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

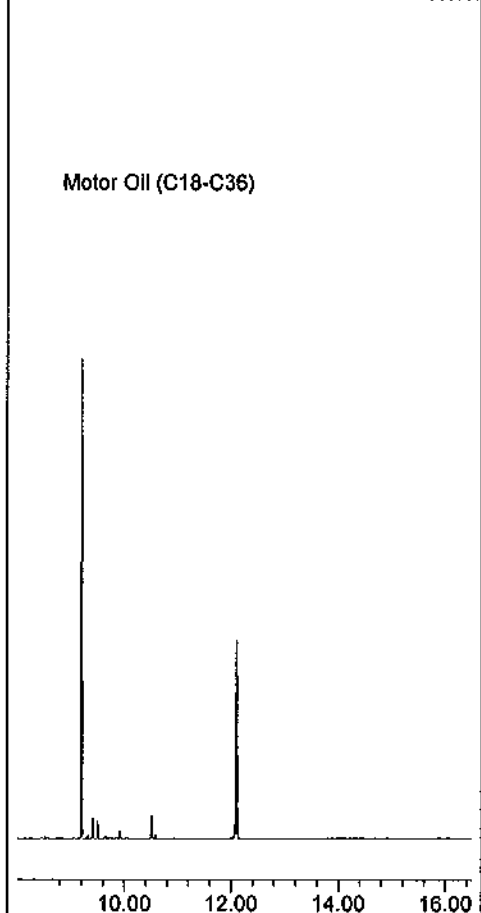
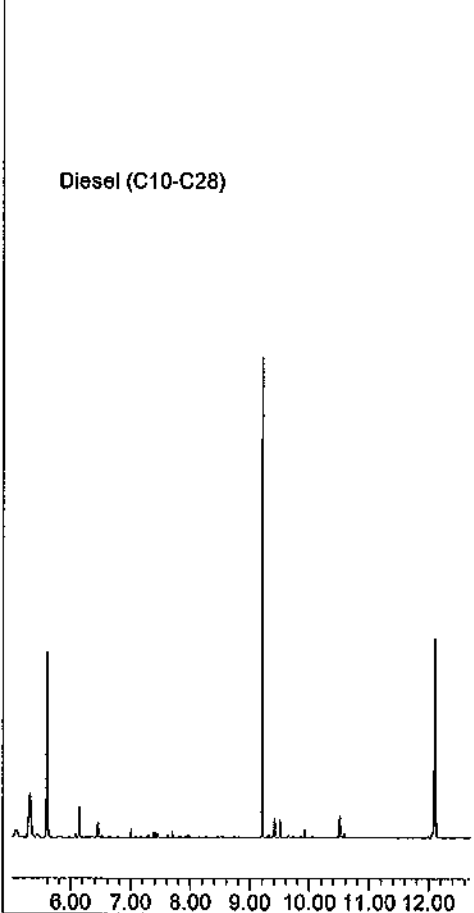
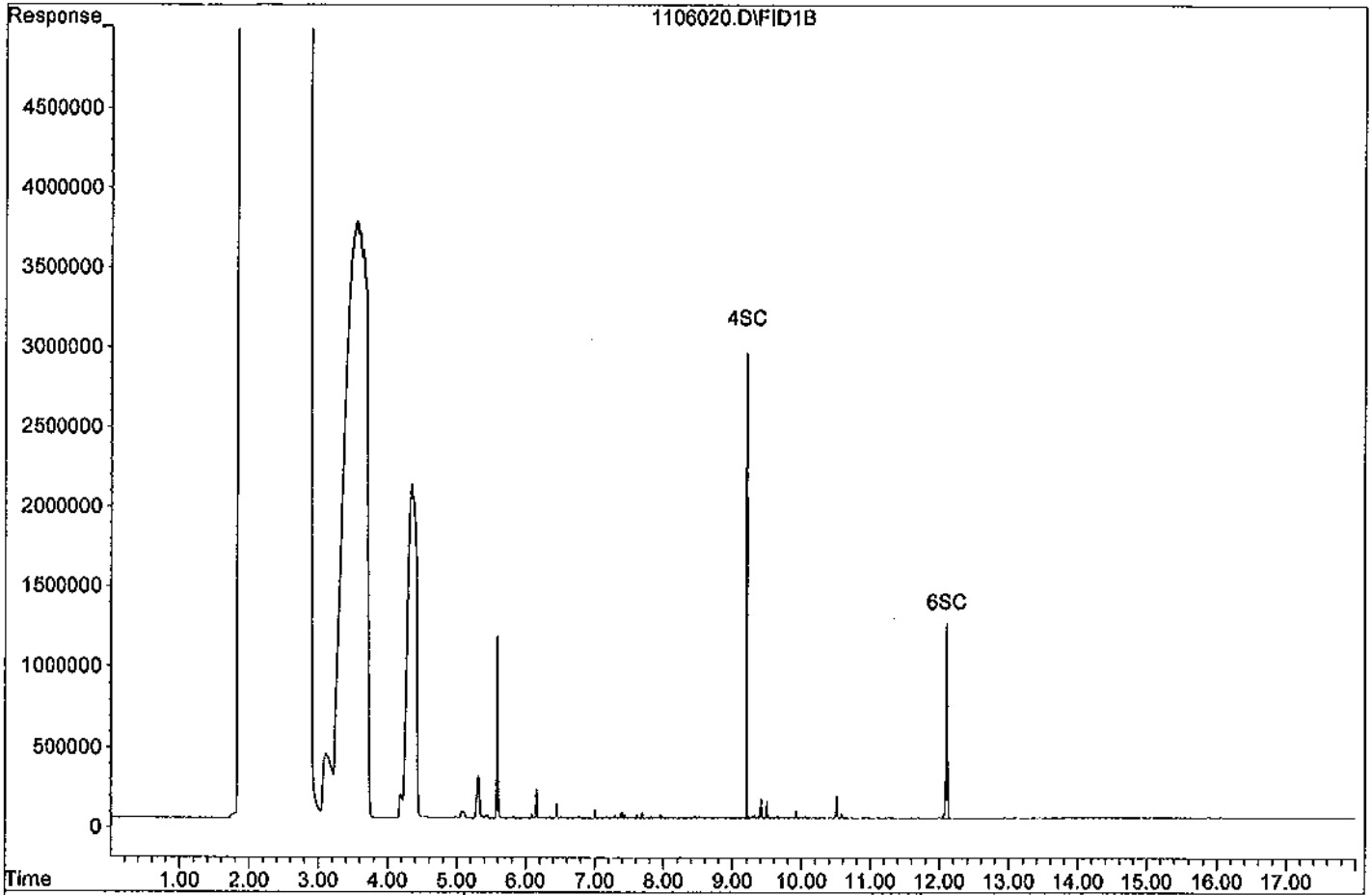
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
----------	------	----------	------------

System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.21	19608694	108.112 ppb
Surrogate Spike 144.231		Recovery =	74.96%
6) SC Octacosane(S)	12.11	16534316	170.821 ppb
Surrogate Spike 144.231		Recovery =	118.44%

Target Compounds

Data File: G:\APOLLO\DATA\111106\1106020.D
Sample : AY49481W10 5/1040



TPH Diesel Water

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

Attn: Stacey Fineran
Project: RED HILL/1022-024

Sample ID: ES051

Sample Collection Date: 10/25/11

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 66116

APPL ID: AY49482

QCG: #TPETD-111031A-160886

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-	DIESEL FUEL	80.8 U	150	80.8	40.4	ug/L	10/31/11	11/06/11
EPA 8015B-	SURROGATE: OCTACOSANE (S)	105	28-142			%	10/31/11	11/06/11
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (S)	62.7	57-132			%	10/31/11	11/06/11

Quant Method: TPH1028.M
Run #: 1106021
Instrument: Apollo
Sequence: 111106
Dilution Factor: 1
Initials: LA

Printed: 11/30/11 2:13:51 PM
APPL-F1-SC-NoMC-REG MDLs

Data File : G:\APOLLO\DATA\111106\1106021.D Vial: 21
 Acq On : 11-6-11 23:36:56 Operator: LAC
 Sample : AY49482W10 5/1040 Inst : Apollo
 Misc : Water Multiplr: 4.81
 IntFile : events.e
 Quant Time: Nov 7 10:05 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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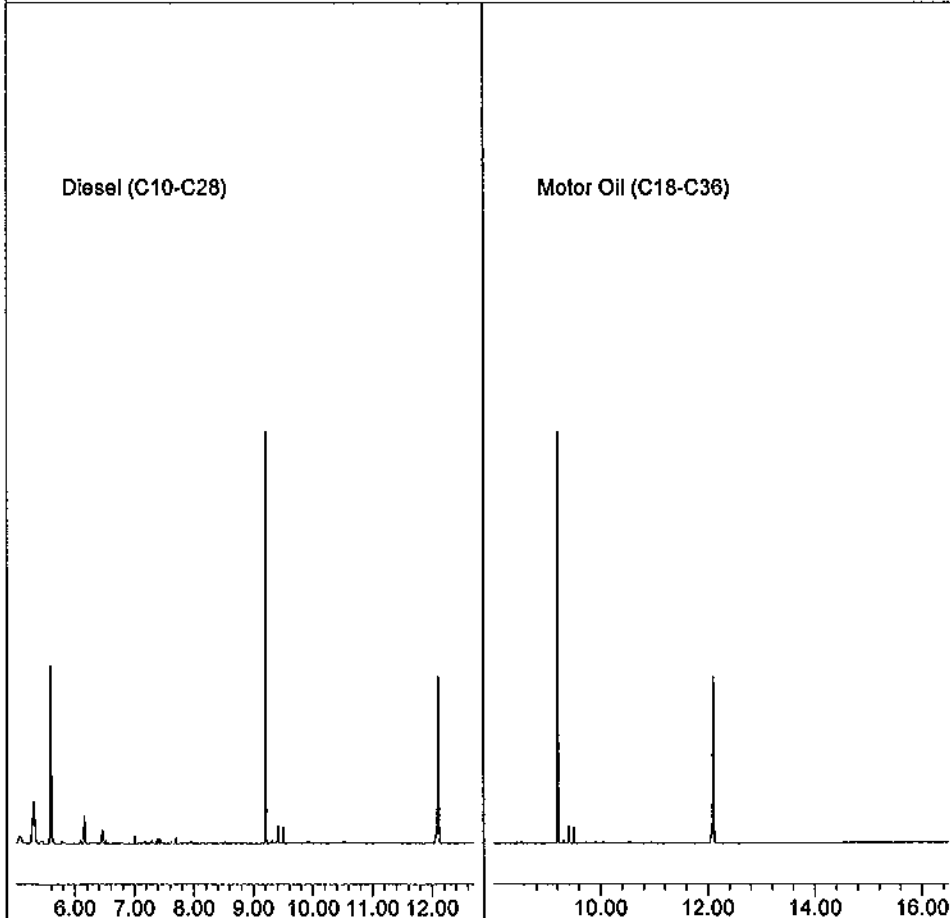
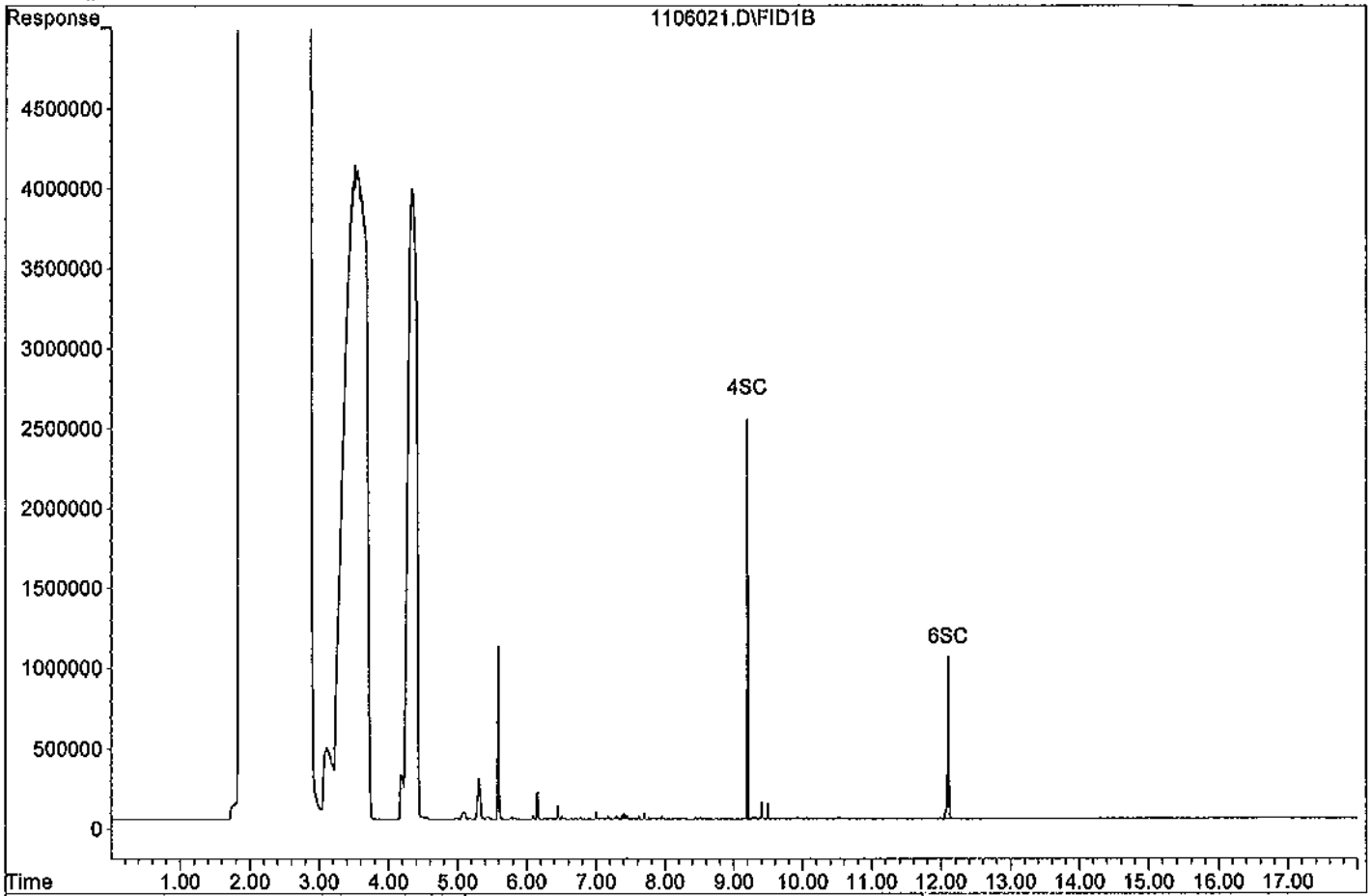
System Monitoring Compounds

4) SC Ortho-Terphenyl(S)	9.21	16387936	90.355 ppb
Surrogate Spike 144.231		Recovery =	62.65%
6) SC Octacosane(S)	12.10	14727661	152.156 ppb
Surrogate Spike 144.231		Recovery =	105.49%

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\111106\1106021.D
Sample : AY49482W10 5/1040



**EPA 8015 Modified
Total Petroleum Hydrocarbons
Calibration Data**

TPH Extractables
TPH1028

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: 66116
Initial Cal. Date: 10/28/11
Instrument: Apollo

Initials: LAC

1028016.D 1028017.D 1028018.D 1028019.D 1028020.D 1028021.D

		Compound	1	2	3	4	5	6					Avg	%RSD	
1	HATM	Diesel (C10-C28)	442719	420460	472596	423976	425504	340418					420946	10	HATM
2	HBTM	Motor Oil (C18-C36)	178423	183716	183814	180648	189866	171166					181272	3.5	HBTM
3	SA	Not Used(S)	492314	497998	549709	499503	505363	680489					537563	14	SA
4	SC	Ortho-Terphenyl(S)		432362	448201	461765	440594	399046					435993	5.3	SC
5	SA	Not Used2(S)	246114	255075	272188	252864	246503	213571					247719	7.8	SA
6	SC	Octacosane(S)		229602	230817	244618	233443	224699					232676	3.2	SC
7															
8															
9															
10															
11															
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35															

1.2501454

Data File : G:\APOLLO\DATA\111028\1028003.D Vial: 3
 Acq On : 10-28-11 9:47:18 Operator: LAC
 Sample : DIESEL 10/1000 10/28/11 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

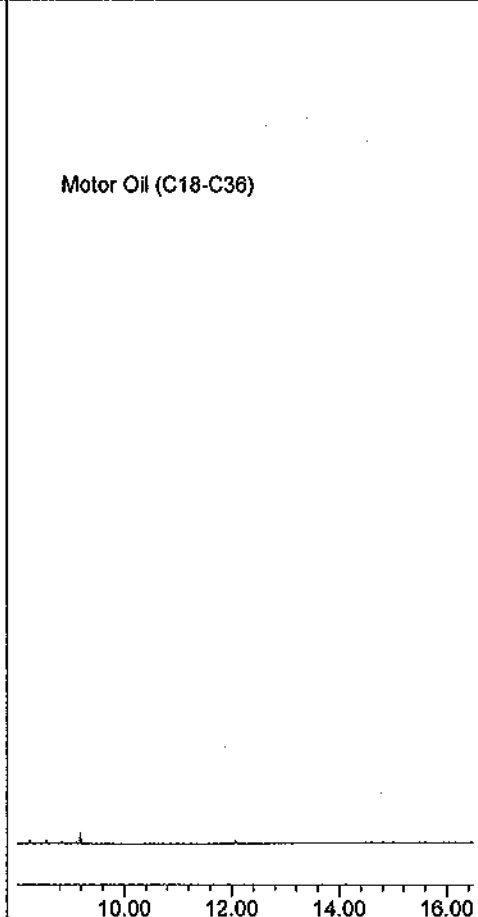
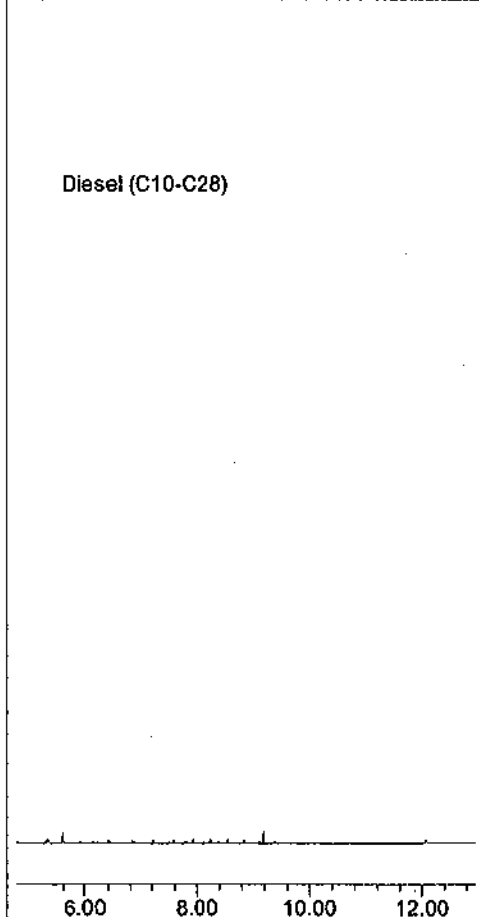
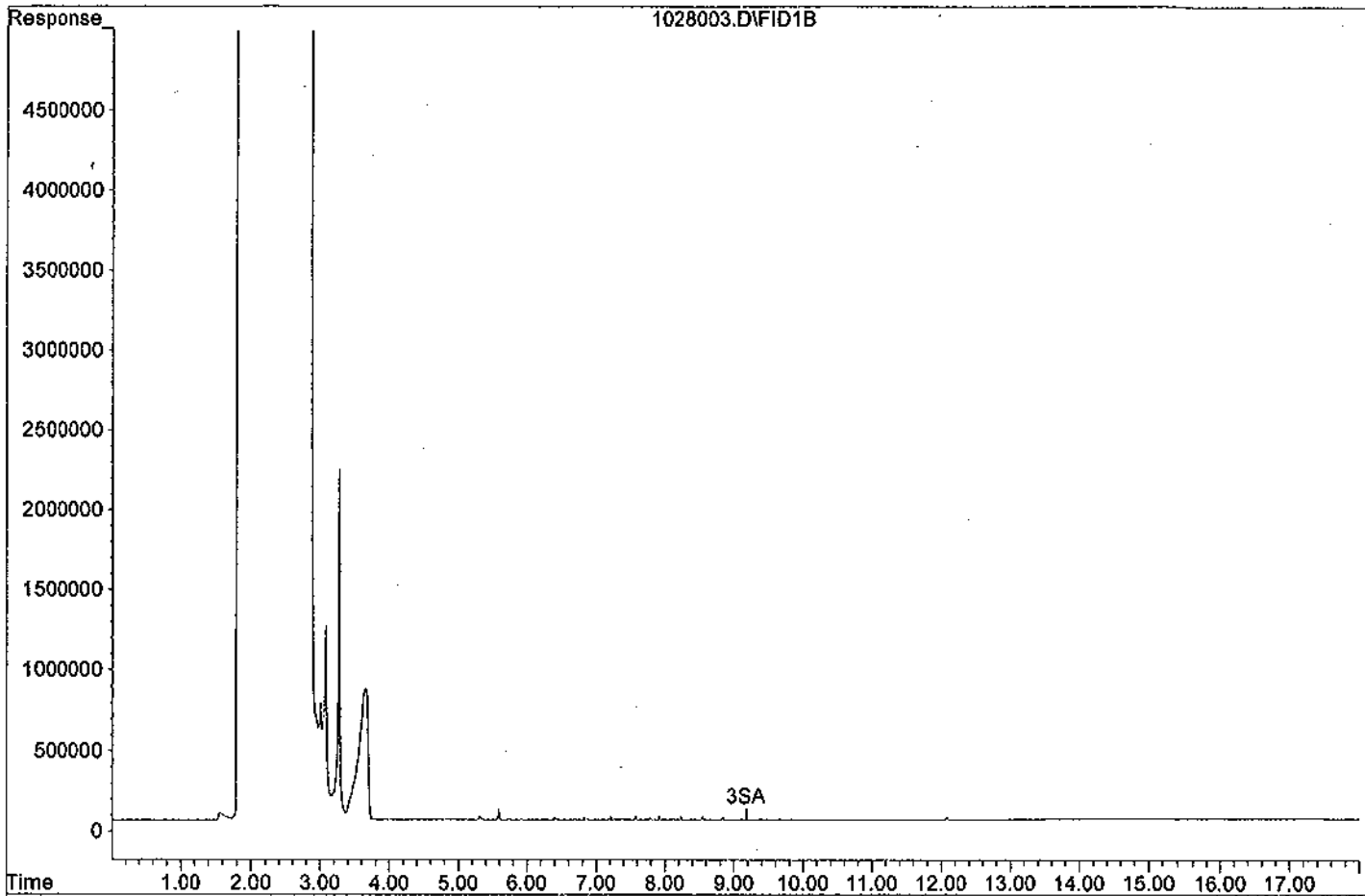
3) SA Not Used(S)	9.18	492314	0.777 ppb
Surrogate Spike 30.000	Recovery	=	2.59%

Target Compounds

1) HATM Diesel (C10-C28)	8.86	8854372	10.215 ppb
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Data File: G:\APOLLO\DATA\111028\1028003.D

Sample : DIESEL 10/1000 10/28/11



Data File : G:\APOLLO\DATA\111028\1028004.D Vial: 4
 Acq On : 10-28-11 10:11:19 Operator: LAC
 Sample : DIESEL 100/1000 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

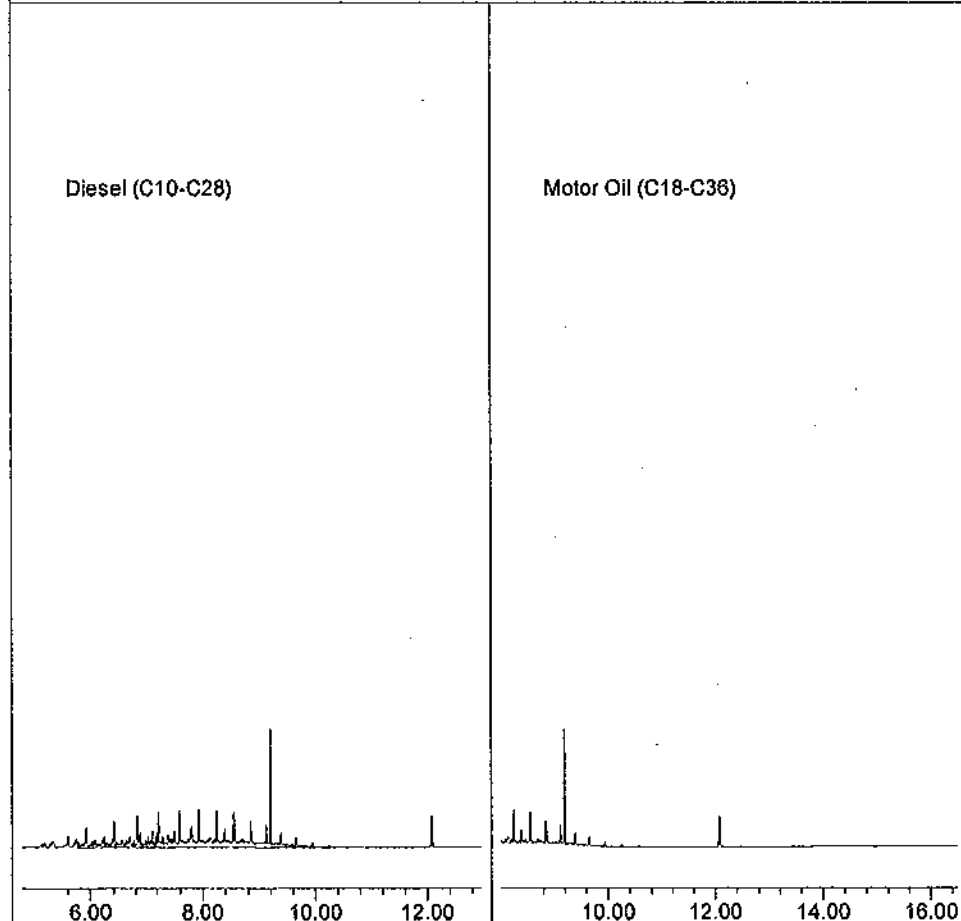
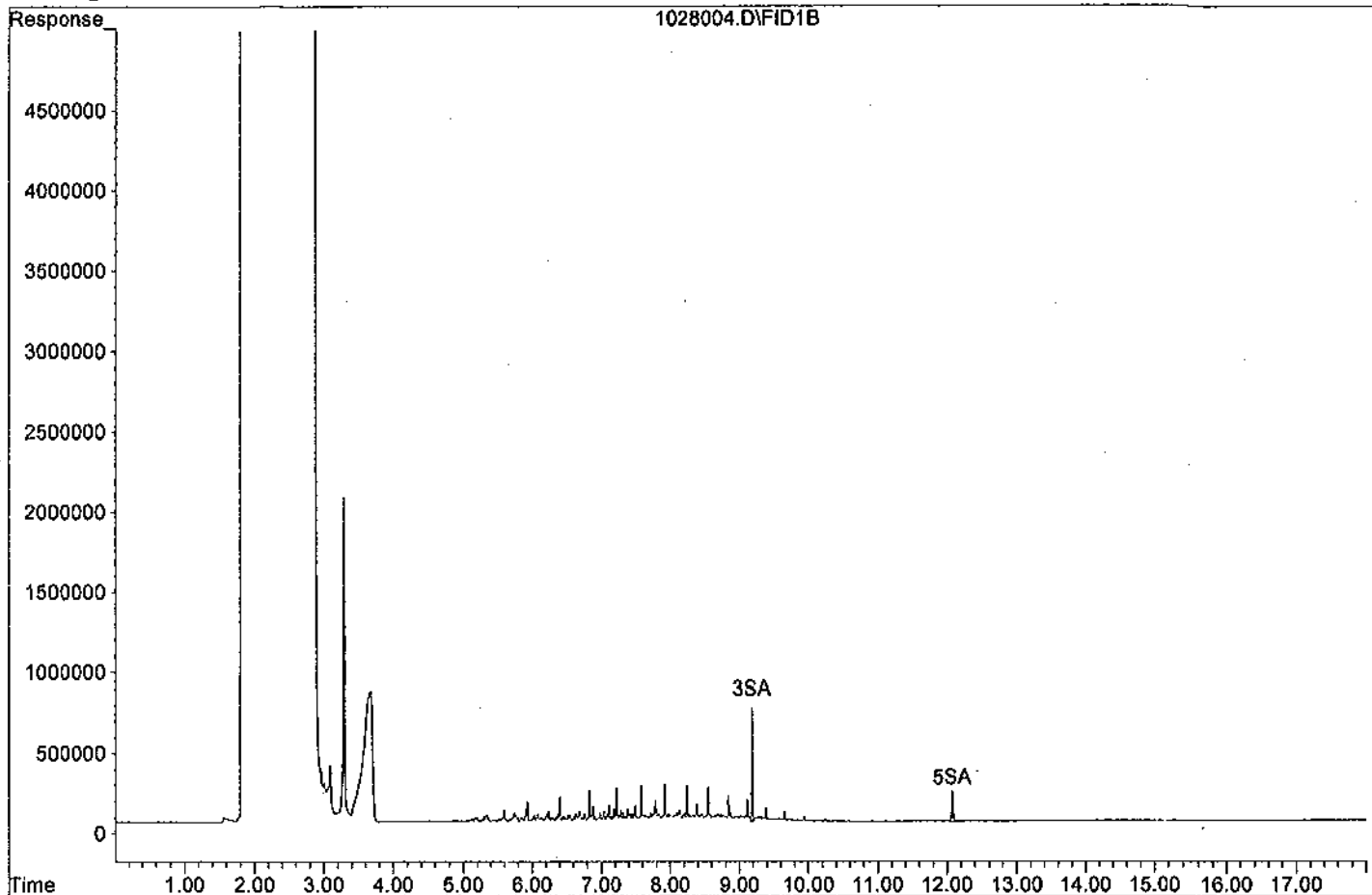
Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.19	4979981	7.855 ppb
Surrogate Spike 30.000		Recovery =	26.18%
5) SA Not Used2(S)	12.08	2550752	9.065 ppb
Surrogate Spike 30.000		Recovery =	30.22%
Target Compounds			
1) HATM Diesel (C10-C28)	8.86	84092037	97.013 ppb

Data File: G:\APOLLO\DATA\111028\1028004.D

Sample : DIESEL 100/1000



Data File : G:\APOLLO\DATA\111028\1028005.D
 Acq On : 10-28-11 10:35:26
 Sample : DIESEL 400/1000
 Misc : Mix(A)
 IntFile : events.e
 Quant Time: Oct 28 13:43 2011

Vial: 5
 Operator: LAC
 Inst : Apollo
 Multiplr: 1.00

Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

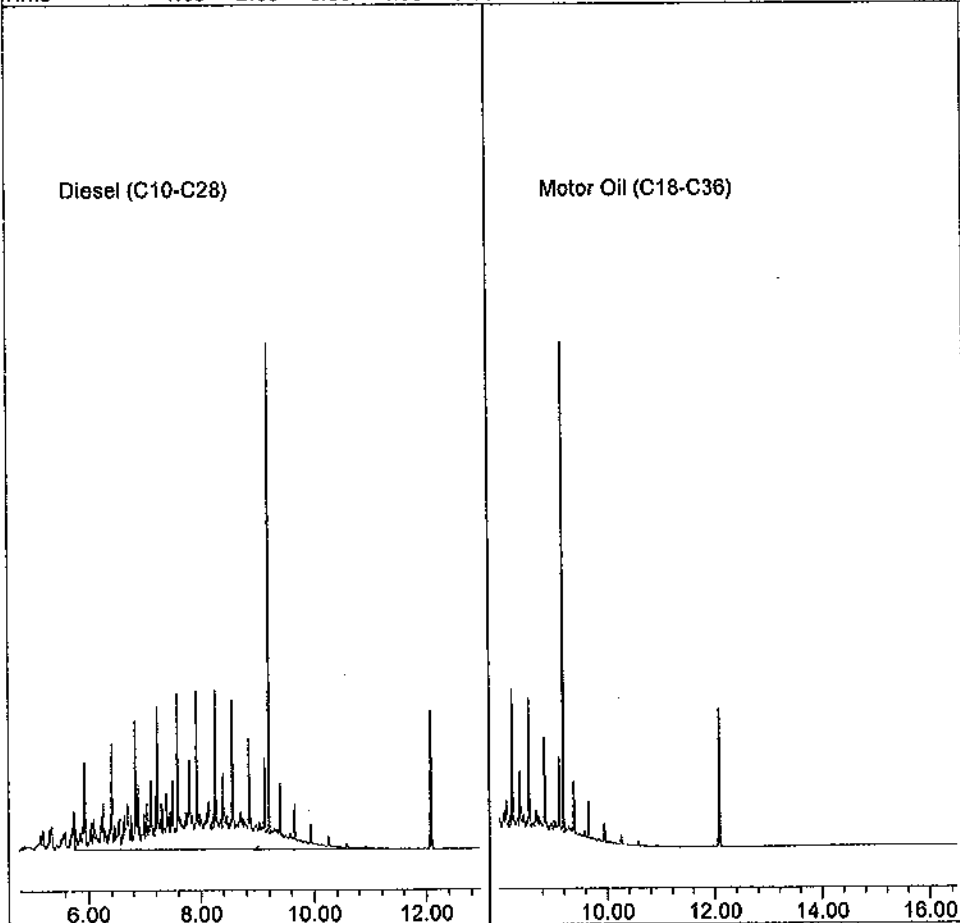
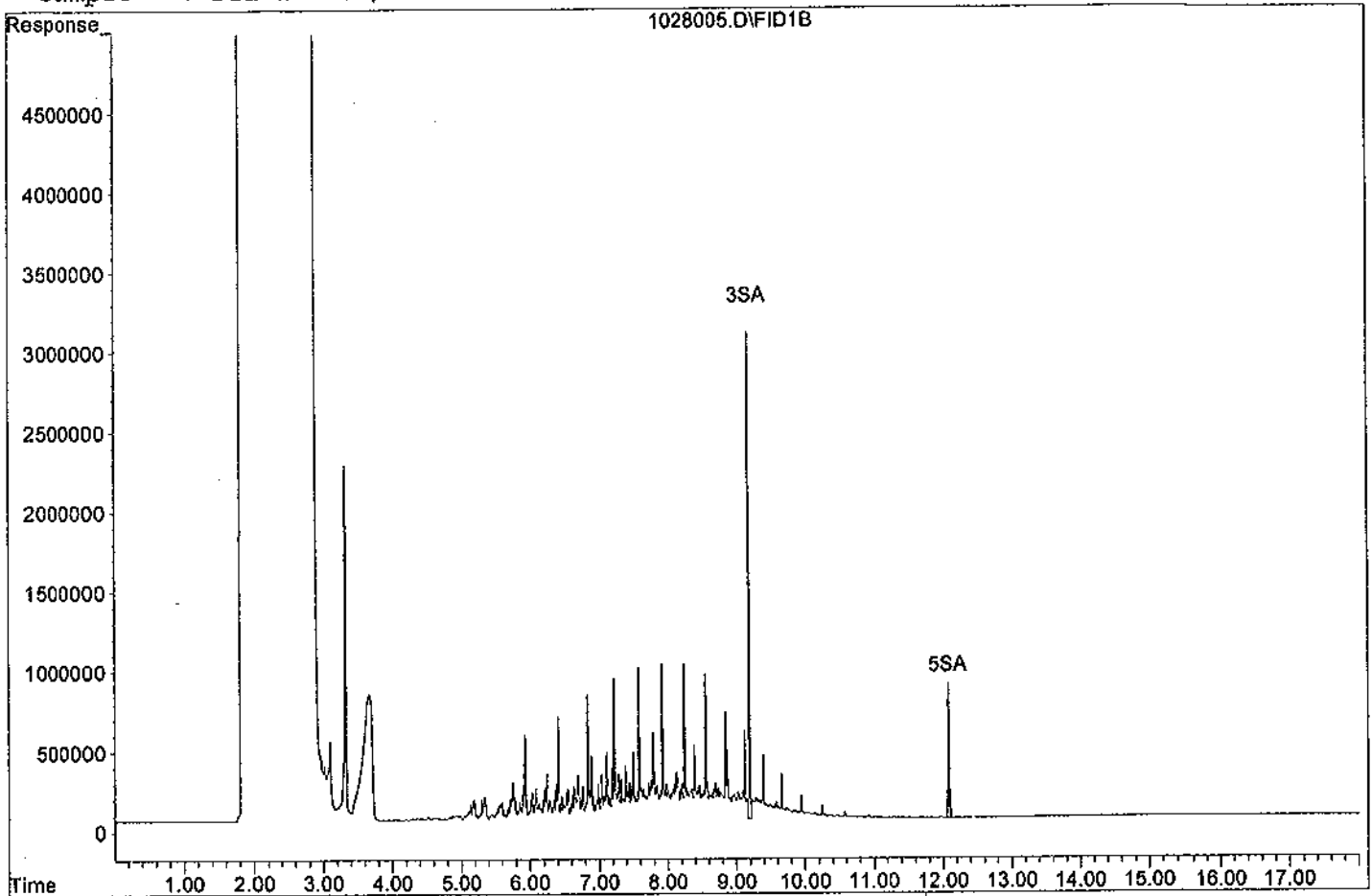
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Not Used(S)	9.19	21988346	34.683 ppb
Surrogate Spike 30.000		Recovery =	115.61%
5) SA Not Used2(S)	12.09	10887525	43.308 ppb
Surrogate Spike 30.000		Recovery =	144.36%
Target Compounds			
1) HATM Diesel (C10-C28)	8.86	378076624	436.171 ppb

Data File: G:\APOLLO\DATA\111028\1028005.D

Sample : DIESEL 400/1000



Data File : G:\APOLLO\DATA\111028\1028006.D Vial: 6
 Acq On : 10-28-11 10:59:35 Operator: LAC
 Sample : DIESEL 600/1000 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

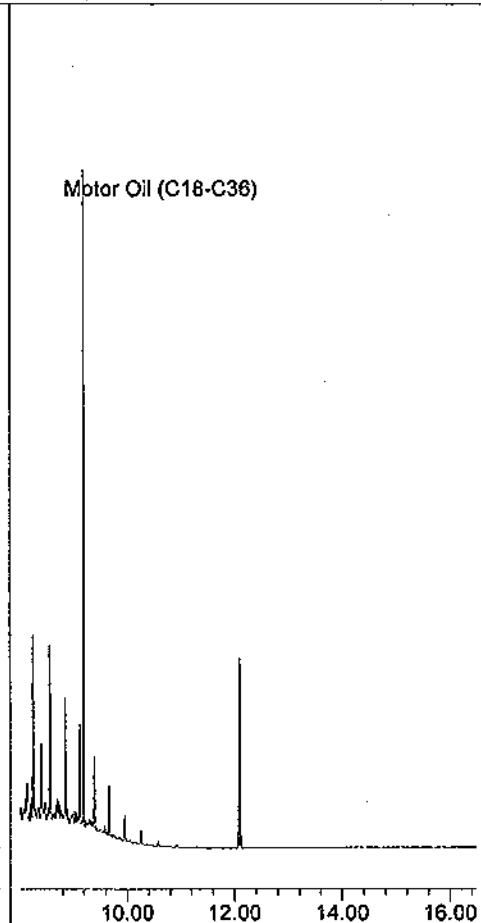
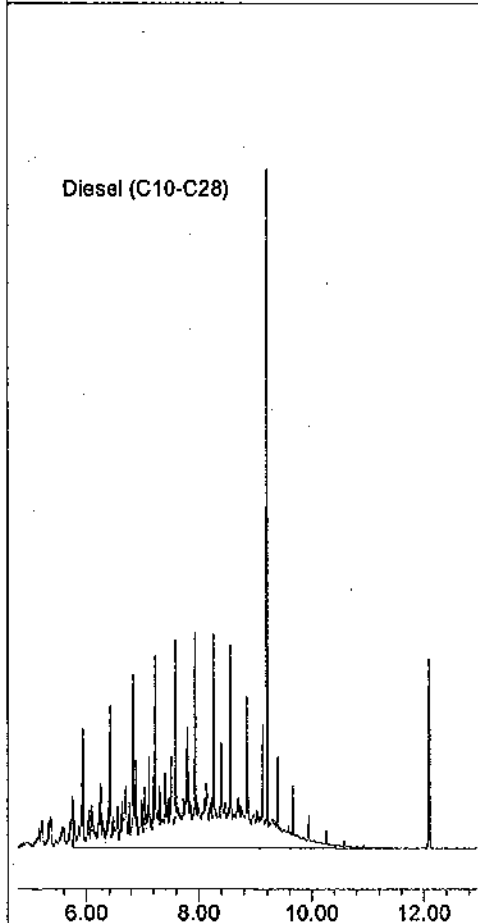
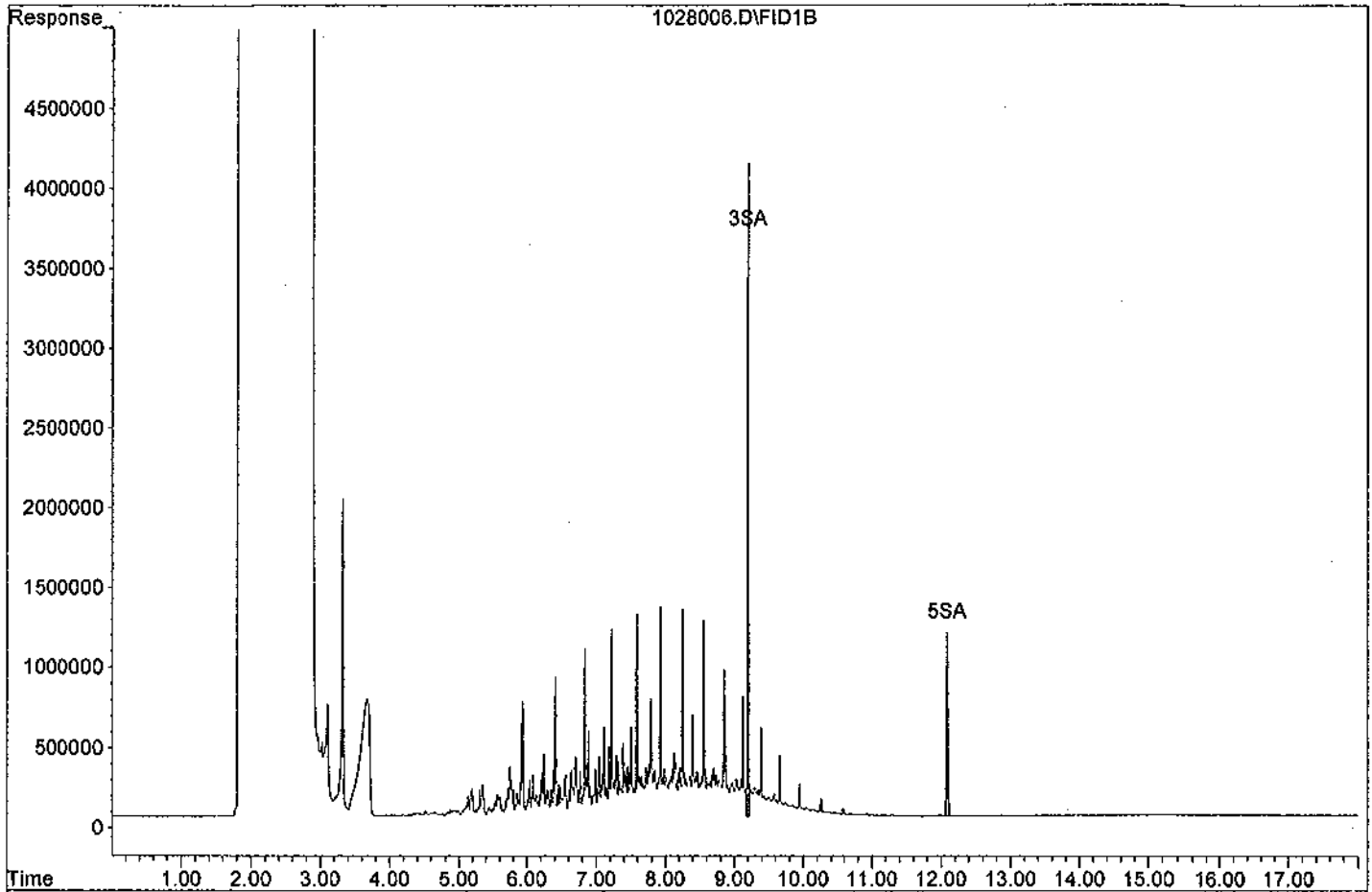
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Not Used(S)	9.20	29970170	47.273 ppb
Surrogate Spike 30.000		Recovery =	157.58%
5) SA Not Used2(S)	12.09	15171855	60.906 ppb
Surrogate Spike 30.000		Recovery =	203.02%
Target Compounds			
1) HATM Diesel (C10-C28)	8.86	508771749	586.949 ppb

Data File: G:\APOLLO\DATA\111028\1028006.D

Sample : DIESEL 600/1000



Data File : G:\APOLLO\DATA\111028\1028007.D Vial: 7
 Acq On : 10-28-11 11:23:49 Operator: LAC
 Sample : DIESEL 800/1000 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

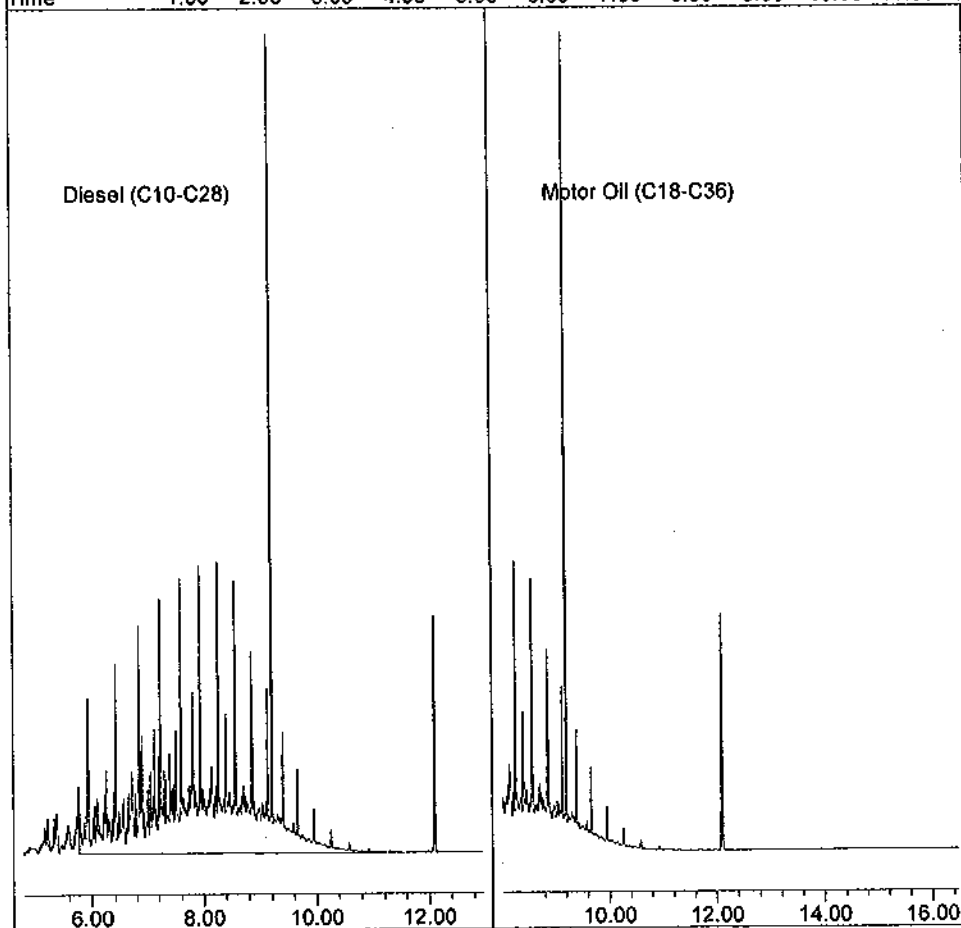
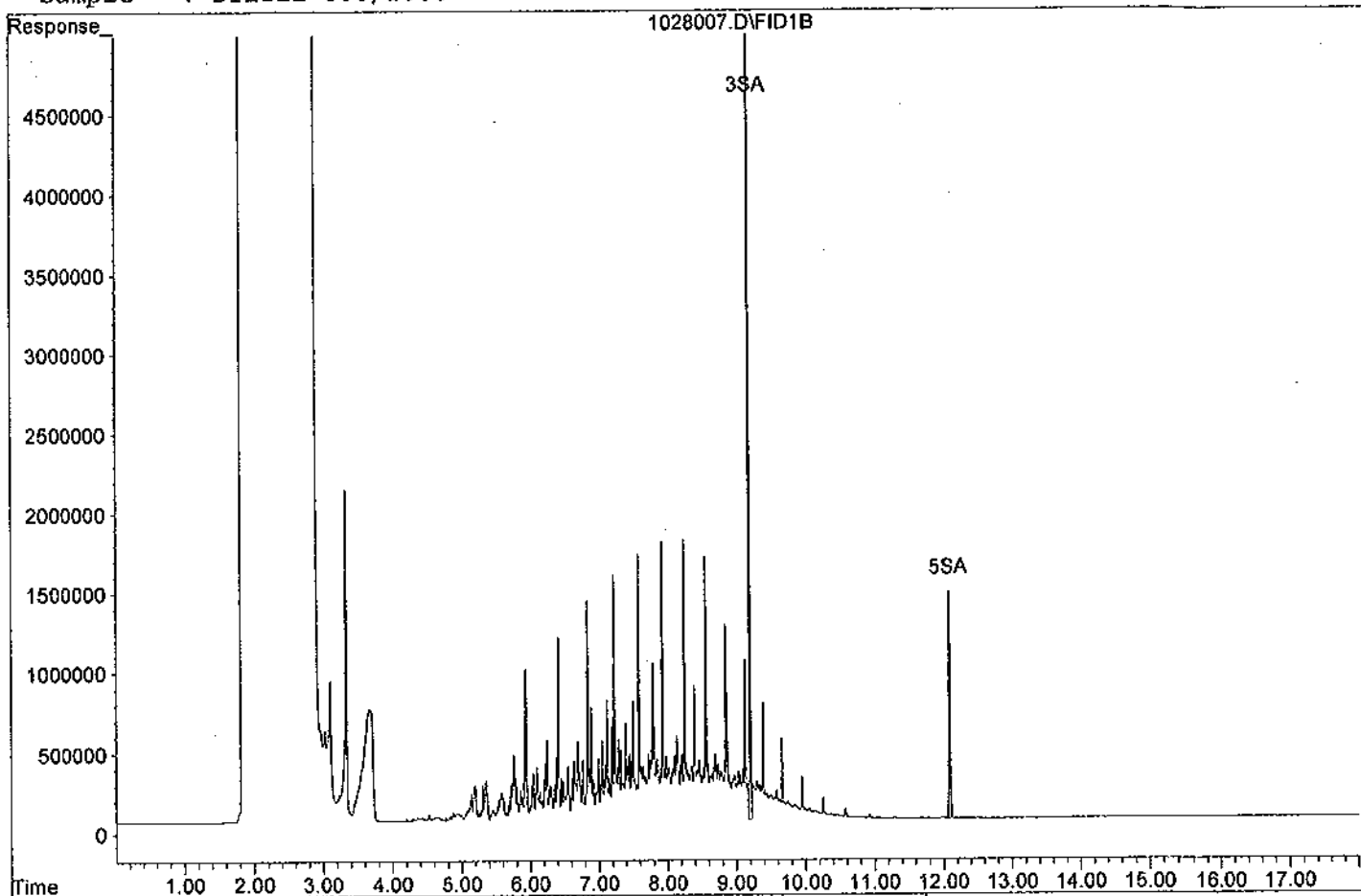
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Not Used(S)	9.20	40429014	63.770 ppb
Surrogate Spike 30.000		Recovery =	212.57%
5) SA Not Used2(S)	12.10	19720236	79.588 ppb
Surrogate Spike 30.000		Recovery =	265.29%
Target Compounds			
1) HATM Diesel (C10-C28)	8.86	680806039	785.417 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\111028\1028007.D

Sample : DIESEL 800/1000



Data File : G:\APOLLO\DATA\111028\1028008.D Vial: 8
 Acq On : 10-28-11 11:48:05 Operator: LAC
 Sample : DIESEL 1000/1000 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant. Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

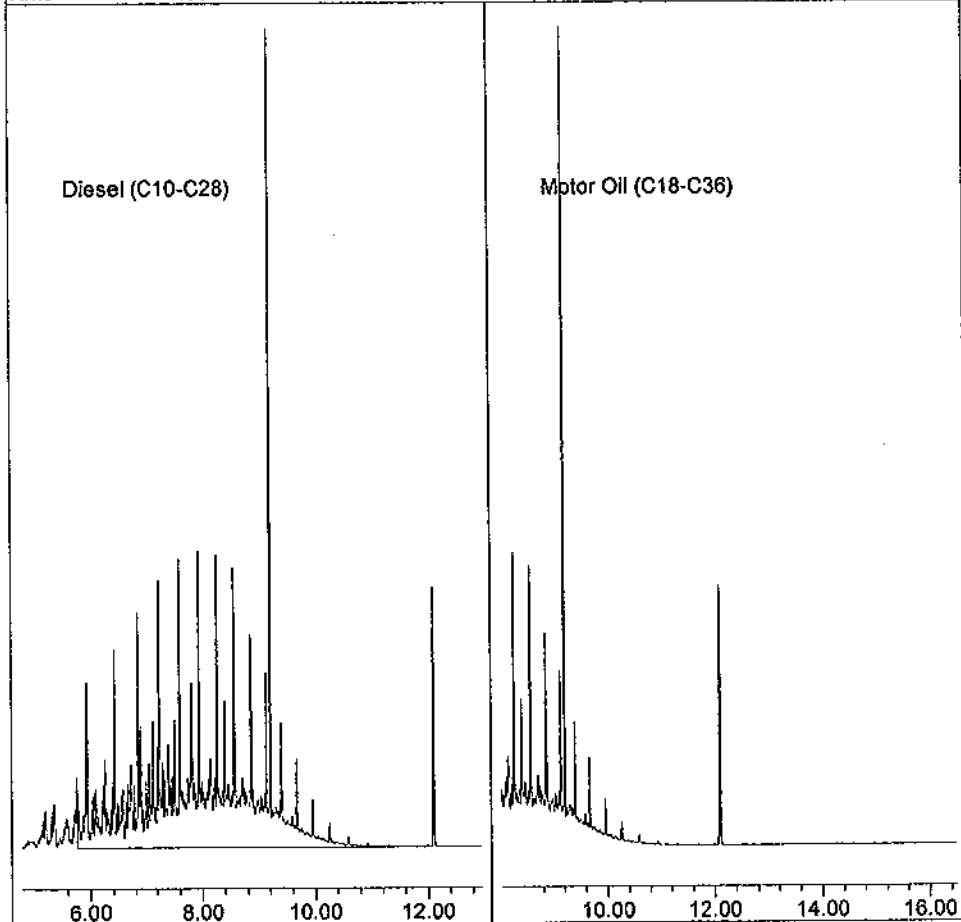
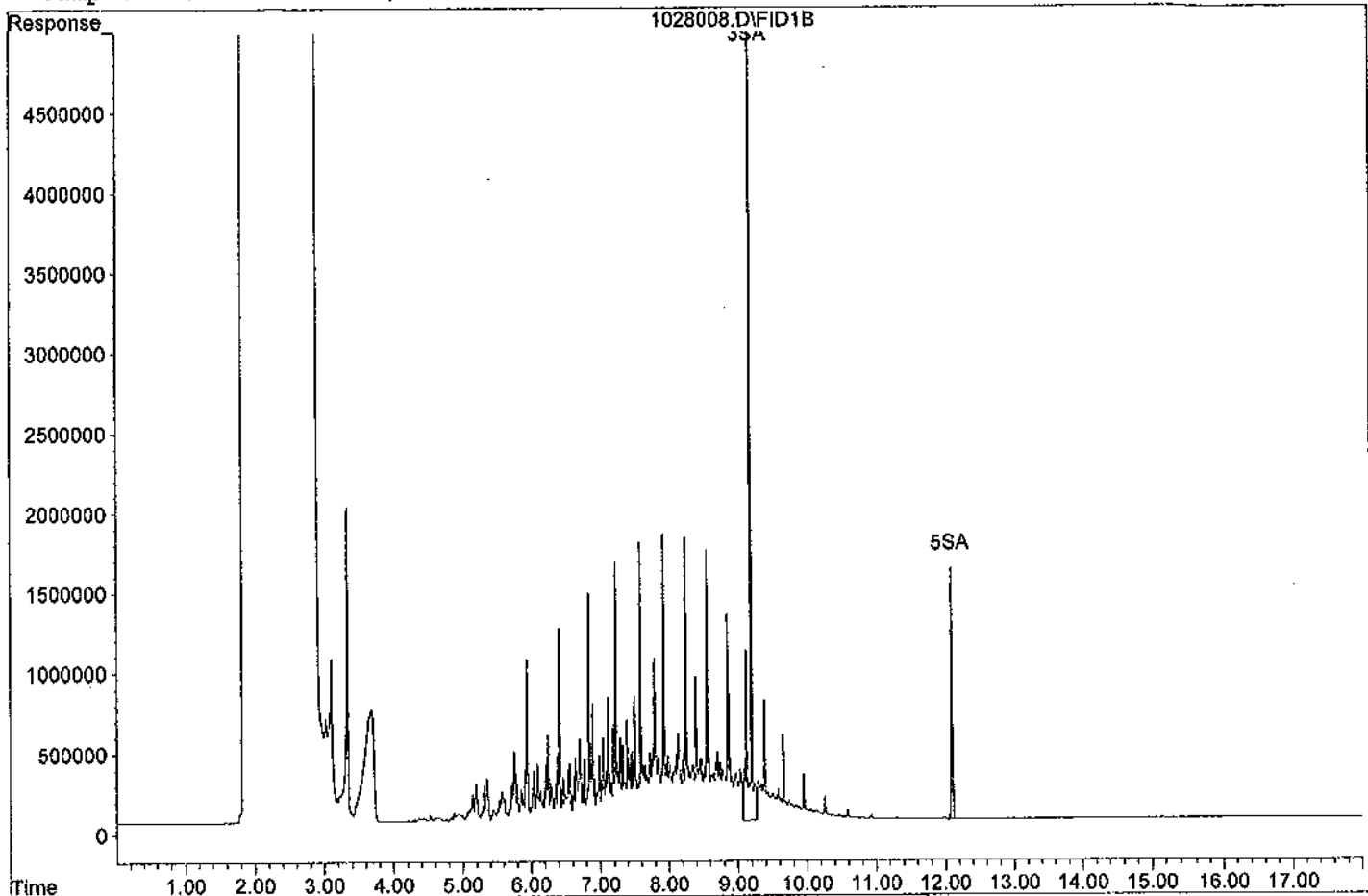
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Not Used(S)	9.20	68048921	107.335 ppb
Surrogate Spike 30.000		Recovery =	357.78%
5) SA Not Used2(S)	12.10	21357059	86.311 ppb
Surrogate Spike 30.000		Recovery =	287.70%
Target Compounds			
1) HATM Diesel (C10-C28)	8.86	680836698	785.453 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\111028\1028008.D

Sample : DIESEL 1000/1000



Data File : G:\APOLLO\DATA\111028\1028009.D Vial: 9
Acq On : 10-28-11 12:12:27 Operator: LAC
Sample : MOTOR OIL 50/1000 10/28/11 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Oct 31 10:02:11 2011
Response via : Multiple Level Calibration

Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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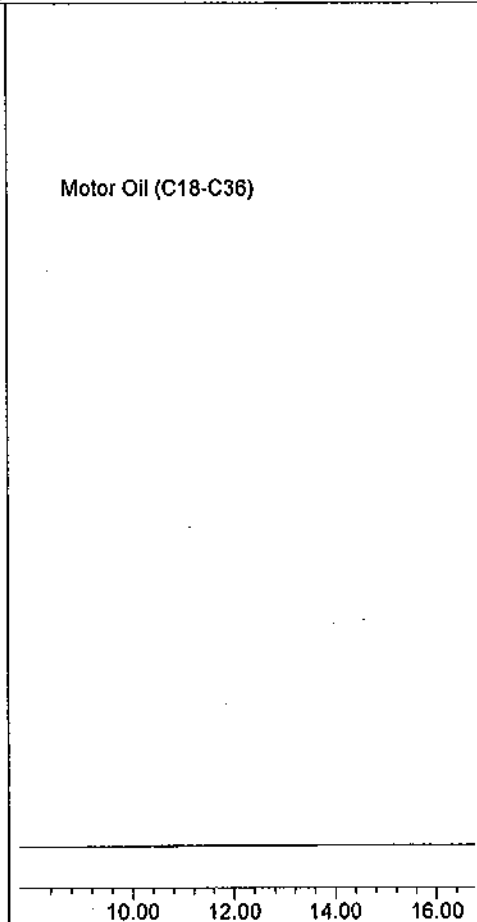
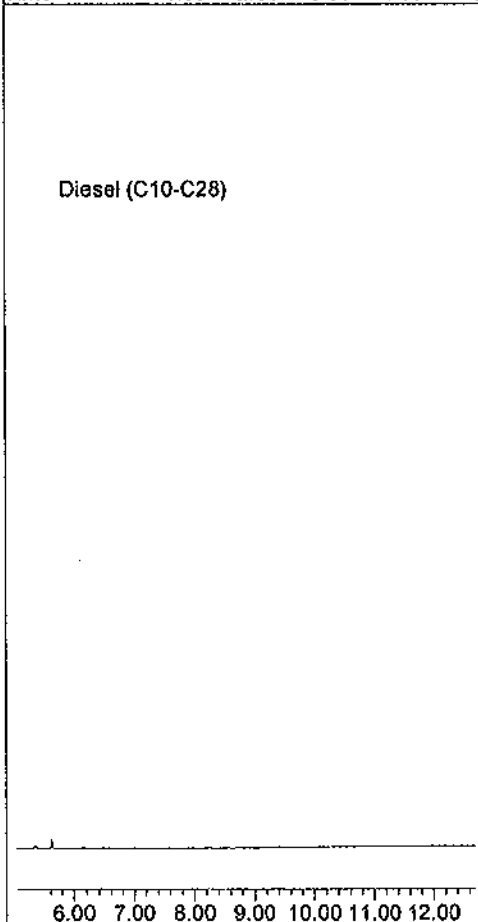
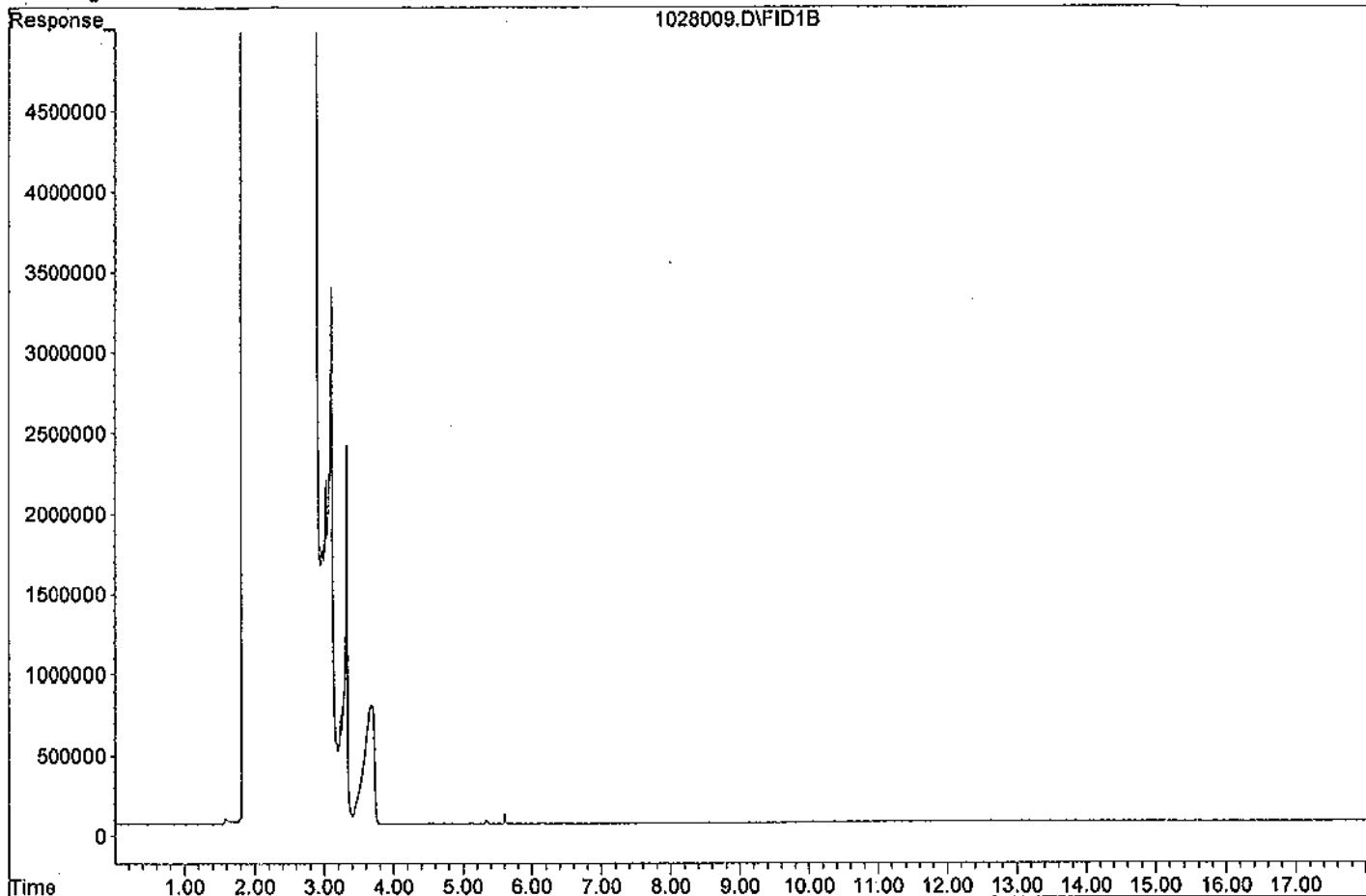
System Monitoring Compounds

Target Compounds

2) HBTM Motor Oil (C18-C36)	12.25	17842259	49.322 ppb
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Data File: G:\APOLLO\DATA\111028\1028009.D

Sample : MOTOR OIL 50/1000 10/28/11



Data File : G:\APOLLO\DATA\111028\1028010.D Vial: 10
 Acq On : 10-28-11 12:36:20 Operator: LAC
 Sample : MOTOR OIL 100/1000 Inst : Apollo
 Misc : Mix(B) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

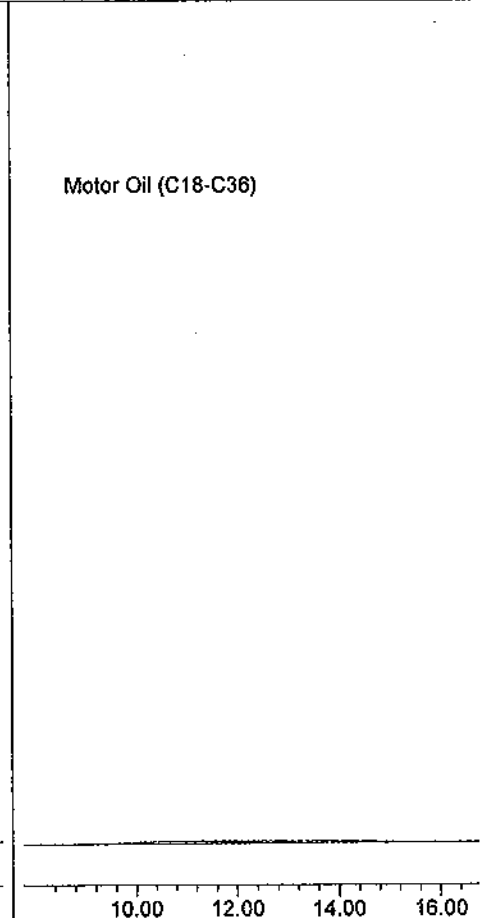
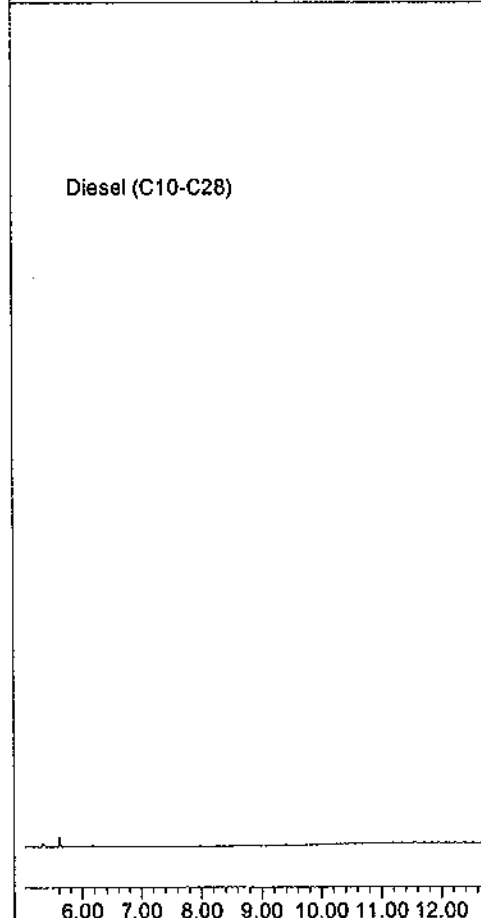
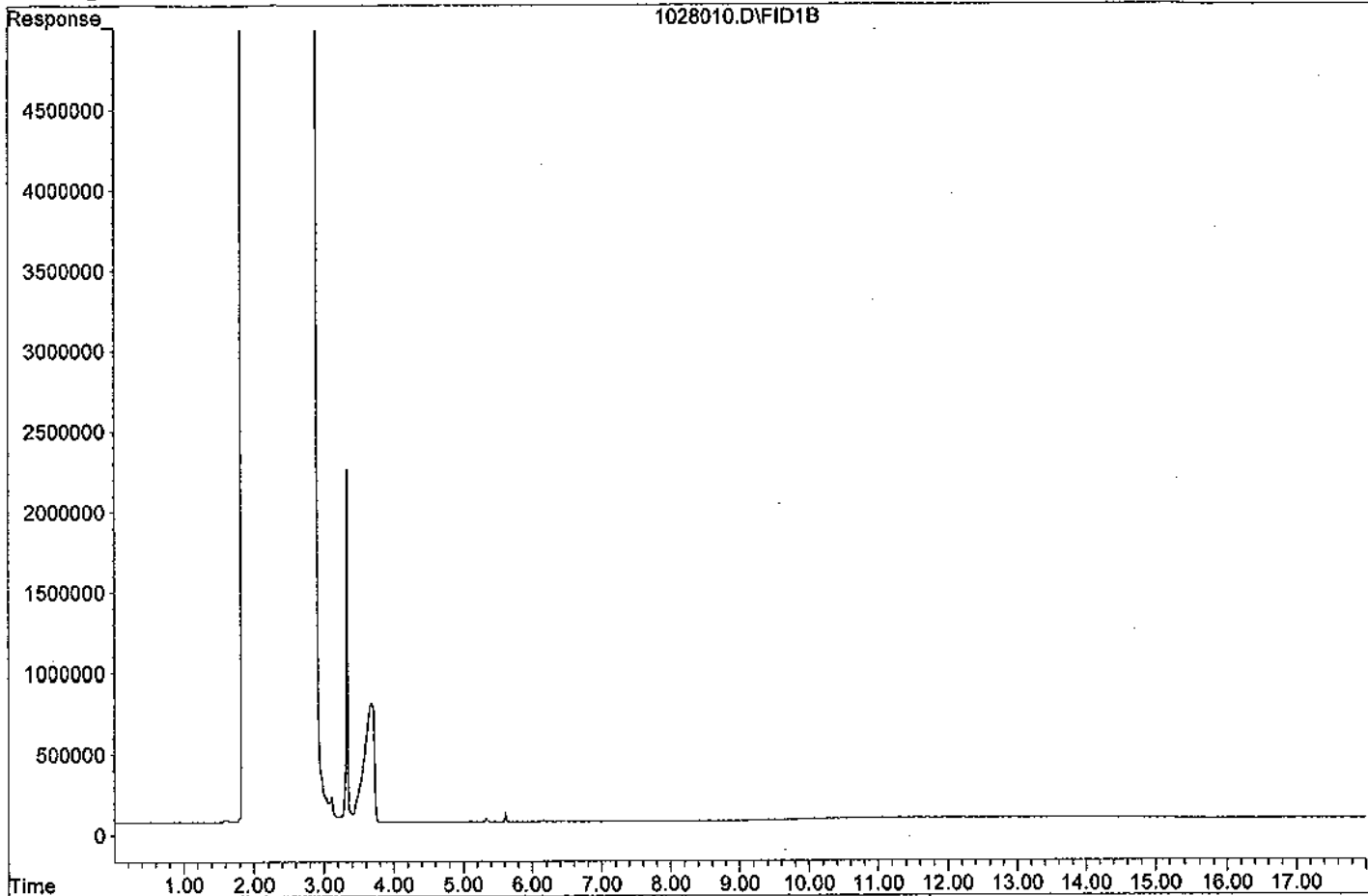
Target Compounds

2) HBTM Motor Oil (C18-C36)	12.25	36743279	101.570 ppb
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Quantitation Report

Data File: G:\APOLLO\DATA\111028\1028010.D

Sample : MOTOR OIL 100/1000



Data File : G:\APOLLO\DATA\111028\1028011.D Vial: 11
 Acq On : 10-28-11 13:00:16 Operator: LAC
 Sample : MOTOR OIL 400/1000 Inst : Apollo
 Misc : Mix(B) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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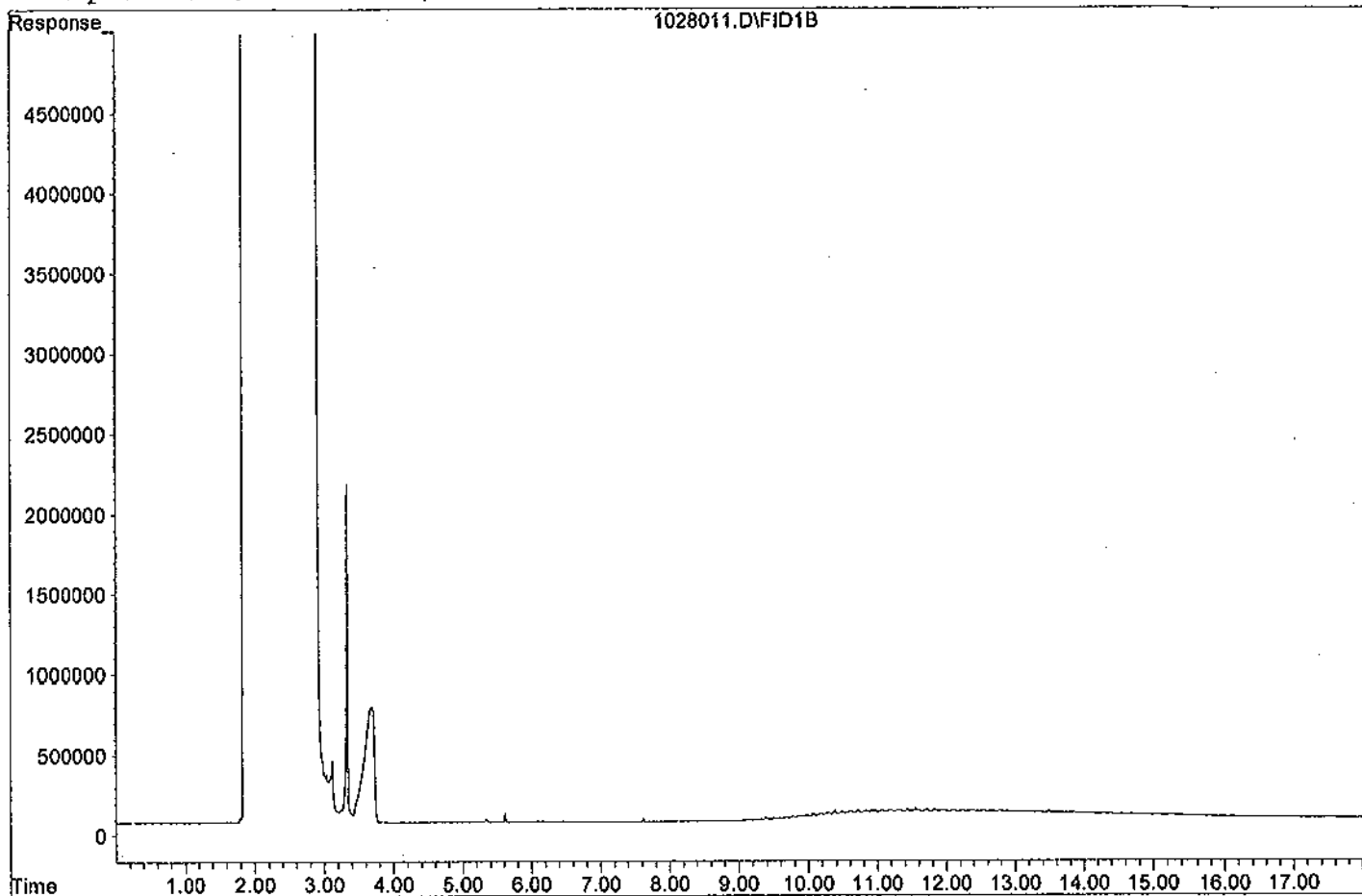
System Monitoring Compounds

Target Compounds

2) HBTM Motor Oil (C18-C36)	12.25	147050915	406.495 ppb
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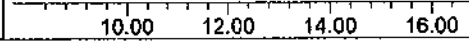
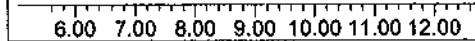
Data File: G:\APOLLO\DATA\111028\1028011.D

Sample : MOTOR OIL 400/1000



Diesel (C10-C28)

Motor Oil (C18-C36)



Data File : G:\APOLLO\DATA\111028\1028012.D Vial: 12
 Acq On : 10-28-11 13:24:39 Operator: LAC
 Sample : MOTOR OIL 600/1000 Inst : Apollo
 Misc : Mix(B) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

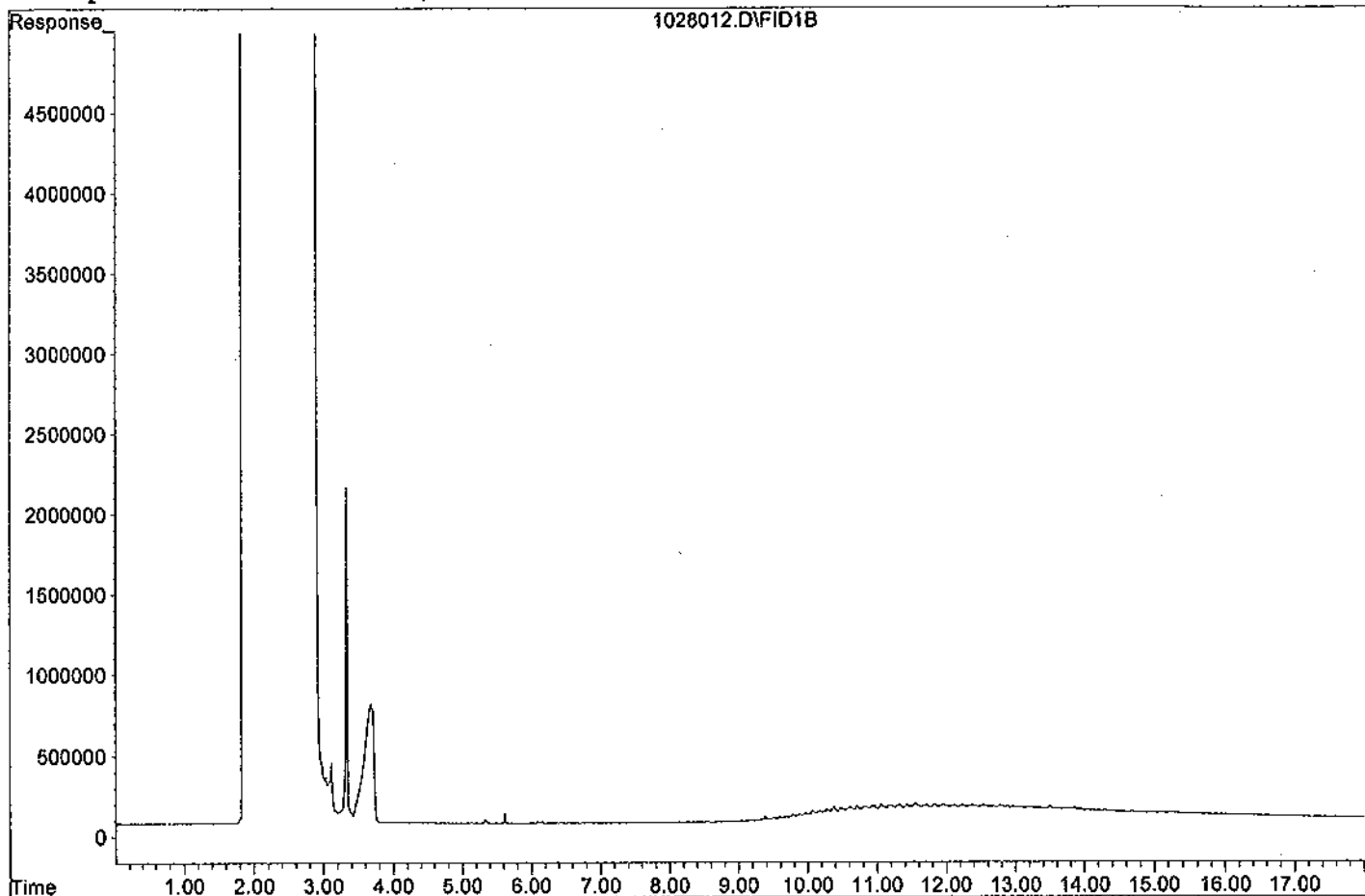
Target Compounds

2) HBTM Motor Oil (C18-C36)	12.25	216778154	599.242 ppb
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Quantitation Report

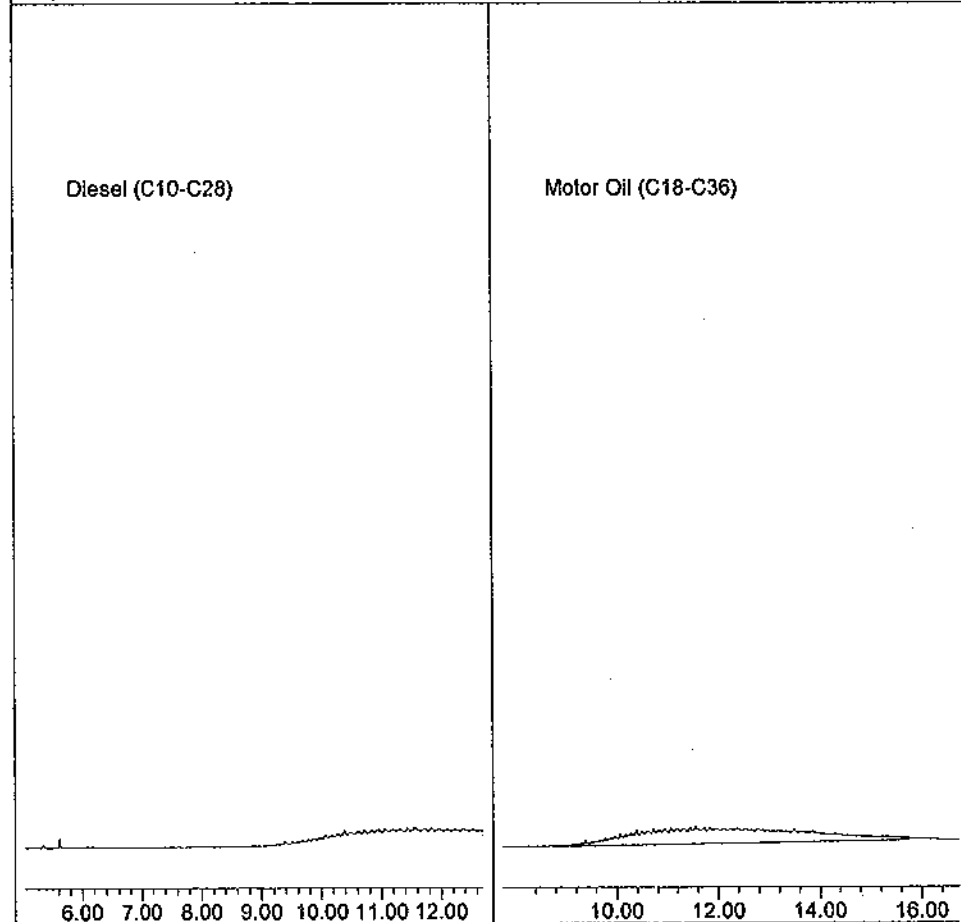
Data File: G:\APOLLO\DATA\111028\1028012.D

Sample : MOTOR OIL 600/1000



Diesel (C10-C28)

Motor Oil (C18-C36)



Data File : G:\APOLLO\DATA\111028\1028013.D Vial: 13
Acq On : 10-28-11 13:48:43 Operator: LAC
Sample : MOTOR OIL 800/1000 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Oct 31 10:02:11 2011
Response via : Multiple Level Calibration

Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

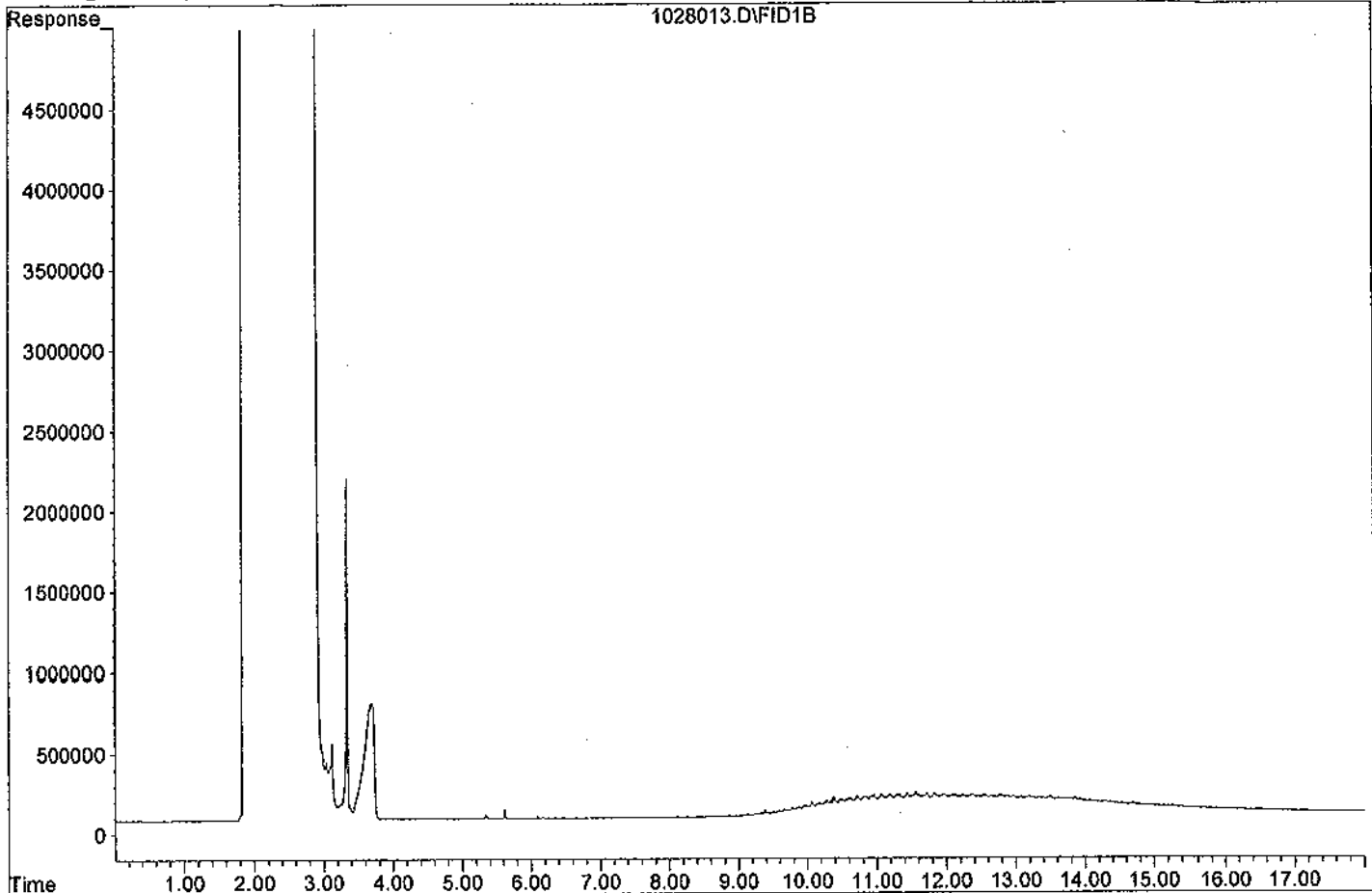
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
Target Compounds			
2) HBTM Motor Oil (C18-C36)	12.25	303785051	839.757 ppb

Data File: G:\APOLLO\DATA\111028\1028013.D

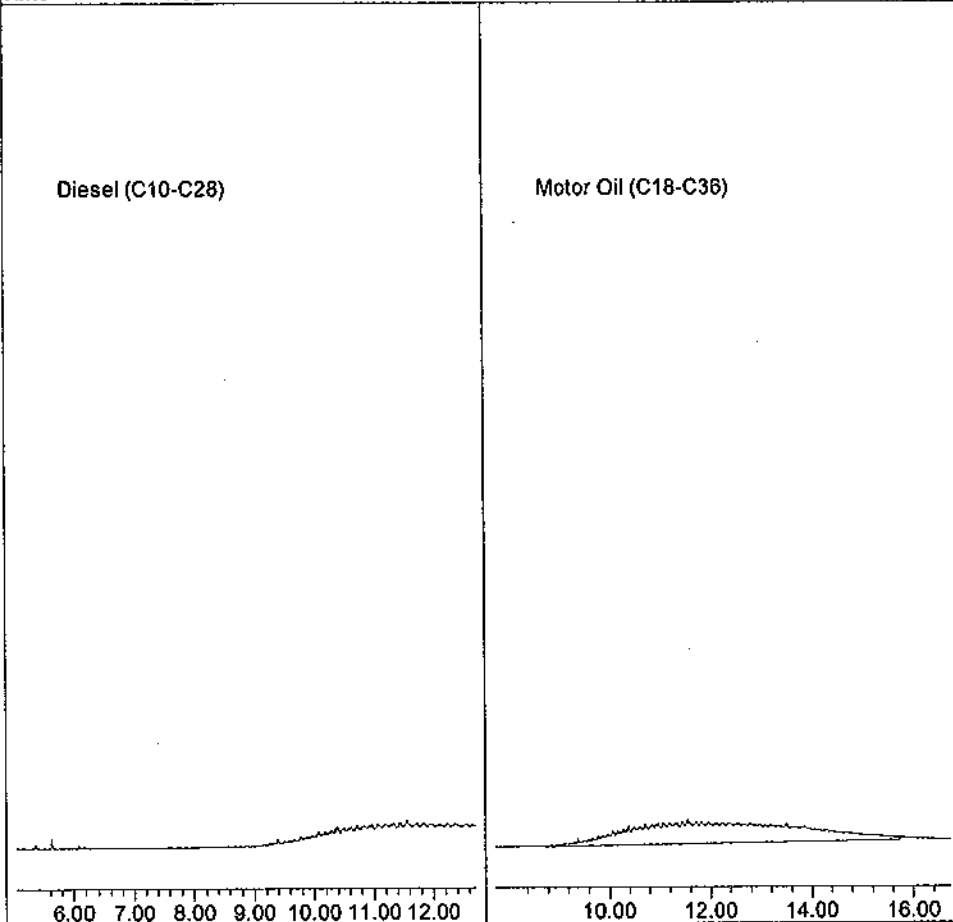
Sample : MOTOR OIL 800/1000

1028013.D\FID1B



Diesel (C10-C28)

Motor Oil (C18-C36)



Data File : G:\APOLLO\DATA\111028\1028014.D Vial: 14
Acq On : 10-28-11 14:13:14 Operator: LAC
Sample : MOTOR OIL 1000/1000 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 28 13:43 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Oct 31 10:02:11 2011
Response via : Multiple Level Calibration

Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

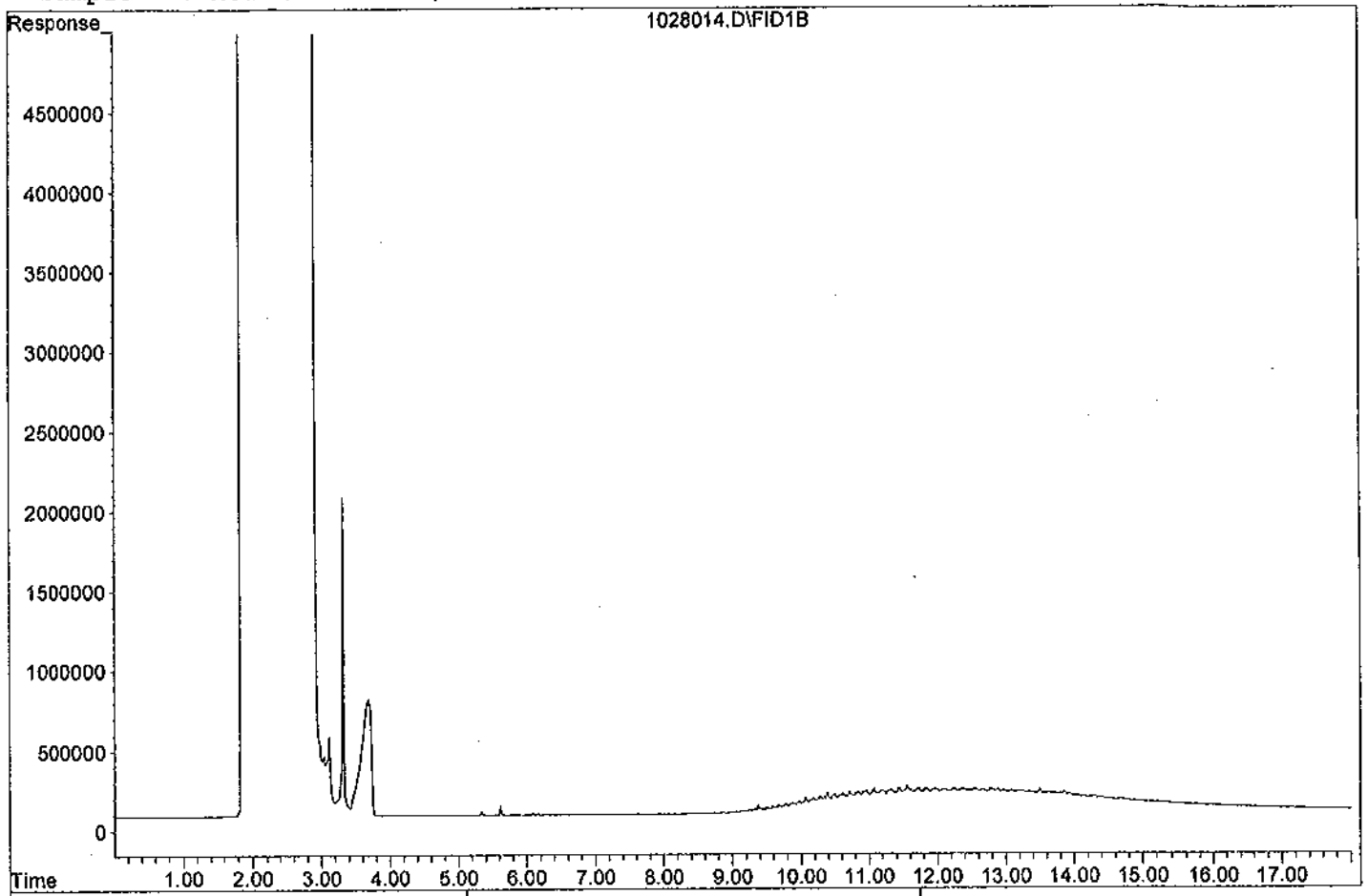
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
Target Compounds			
2) HBTM Motor Oil (C18-C36)	12.25	342332944	946.315 ppb

Data File: G:\APOLLO\DATA\111028\1028014.D

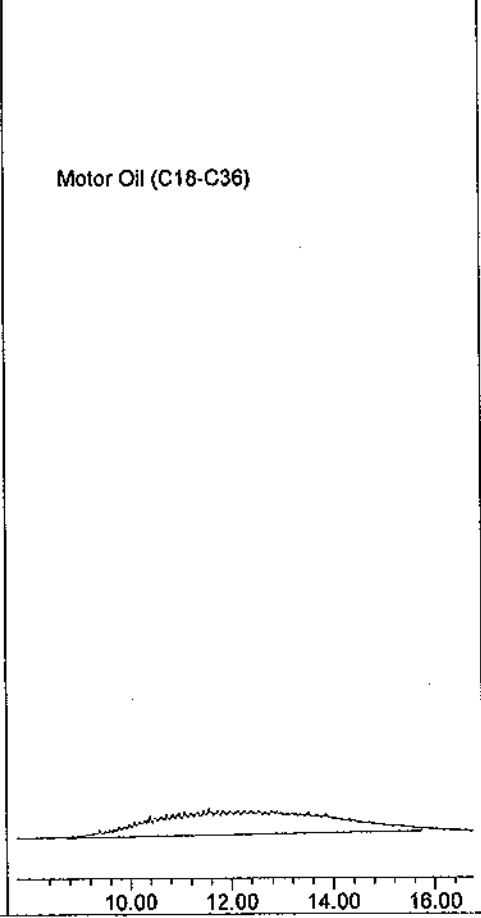
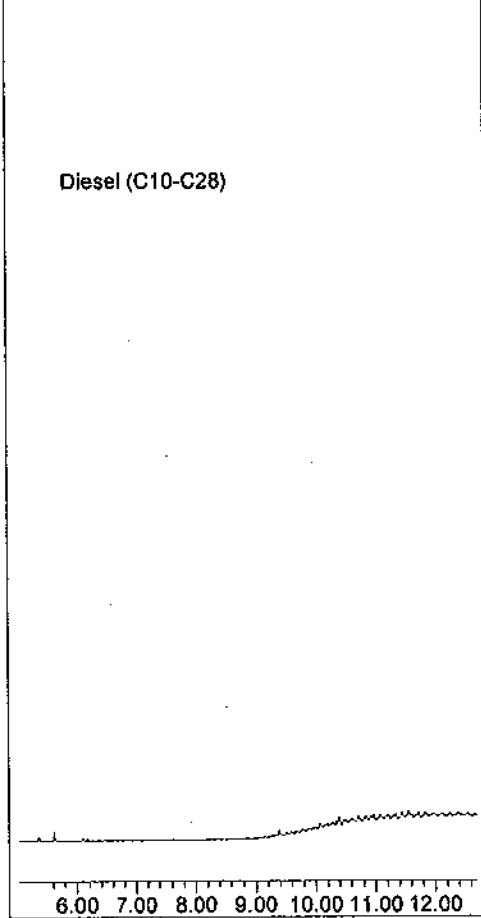
Sample : MOTOR OIL 1000/1000

1028014.D\FID1B



Diesel (C10-C28)

Motor Oil (C18-C36)



Data File : G:\APOLLO\DATA\111028\1028016.D Vial: 16
 Acq On : 10-28-11 15:01:44 Operator: LAC
 Sample : THC SURR 10/1000 10/28/11 Inst : Apollo
 Misc : Mix(C) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 31 9:01 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

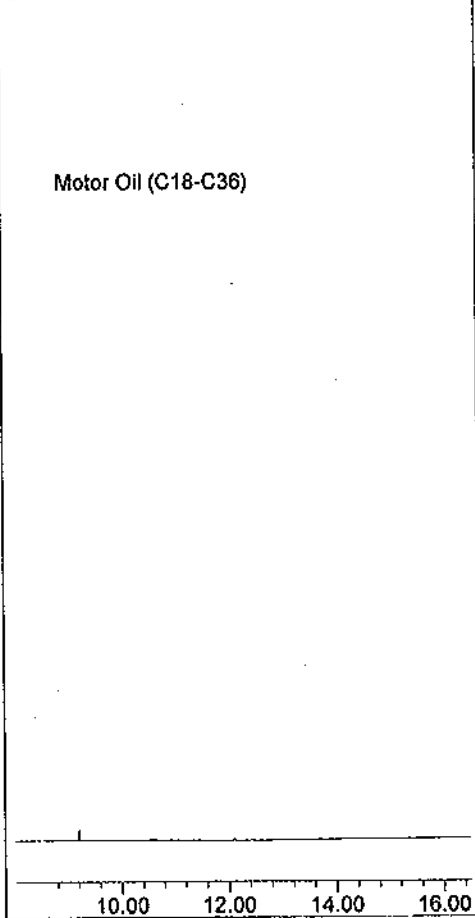
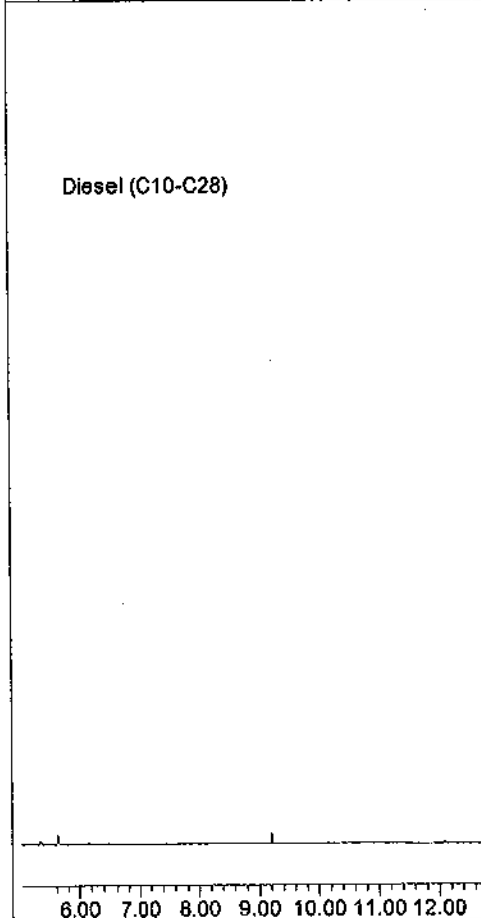
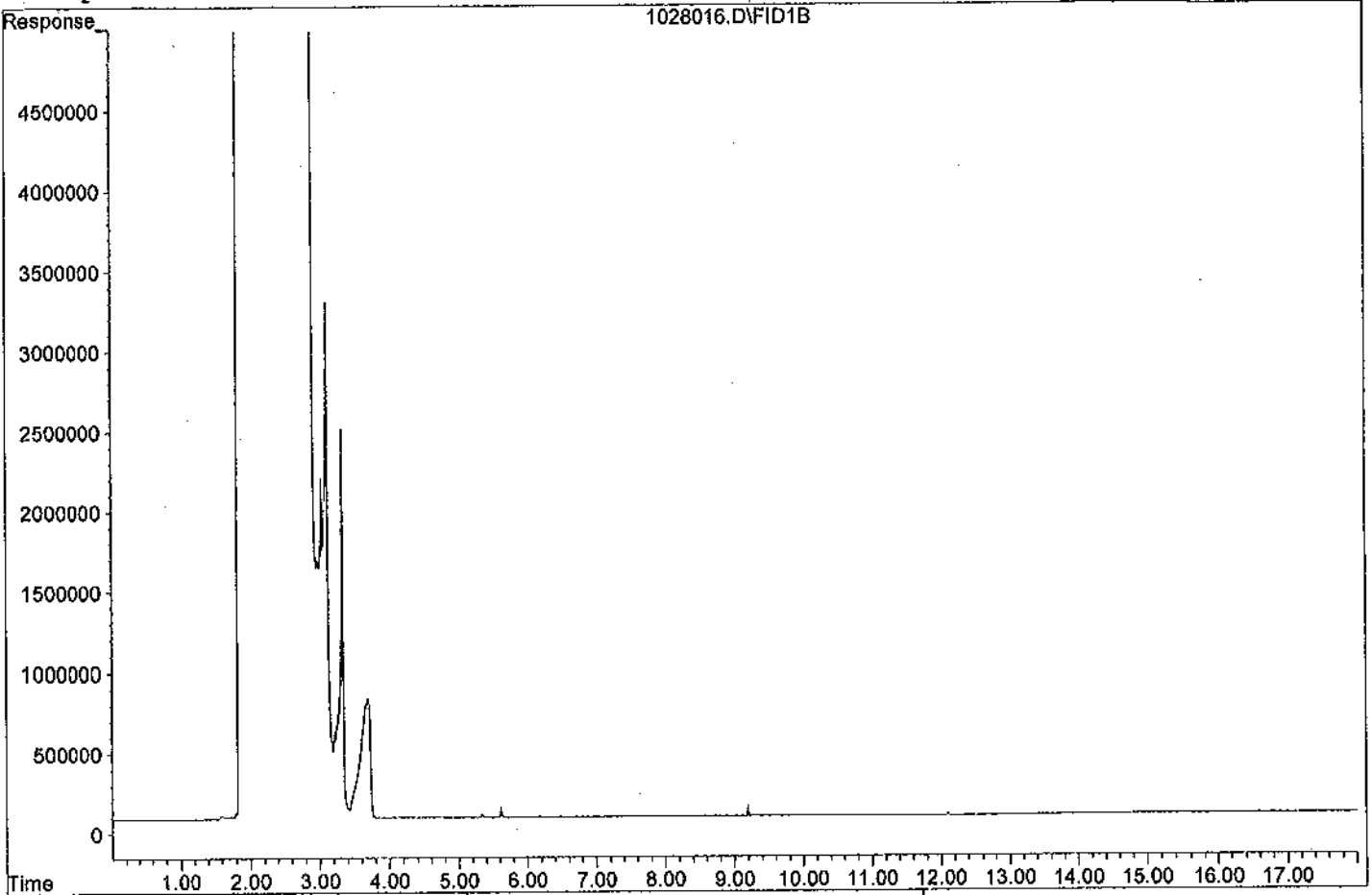
Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\111028\1028016.D
Sample : THC SURR 10/1000 10/28/11



Data File : G:\APOLLO\DATA\111028\1028017.D Vial: 17
Acq On : 10-28-11 15:25:58 Operator: LAC
Sample : THC SURR 100/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 31 9:01 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
Title : Diesel
Last Update : Mon Oct 31 10:02:11 2011
Response via : Multiple Level Calibration

Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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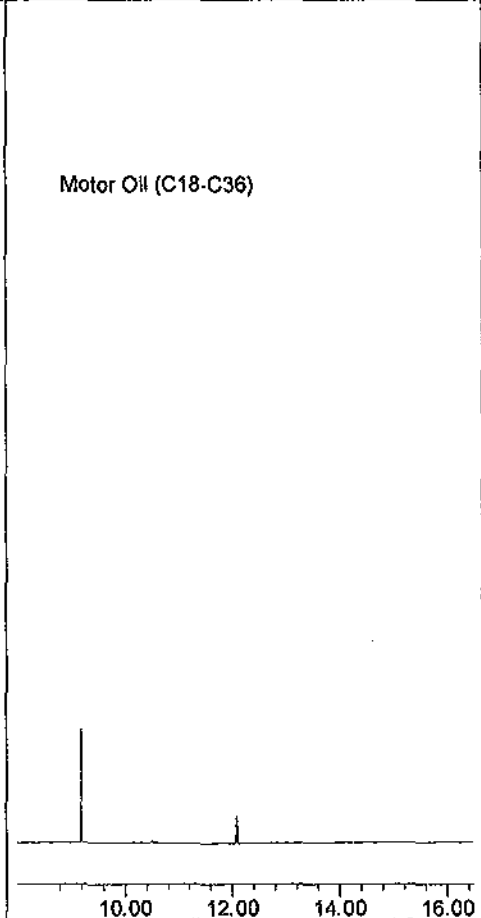
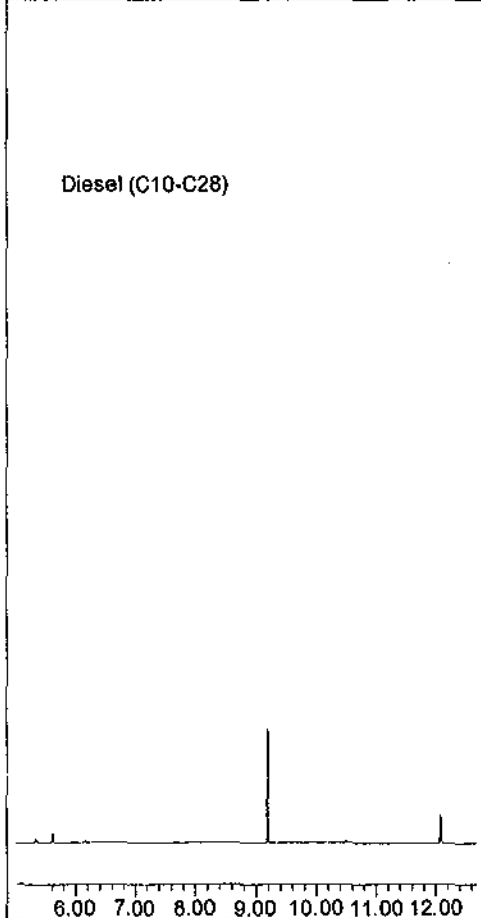
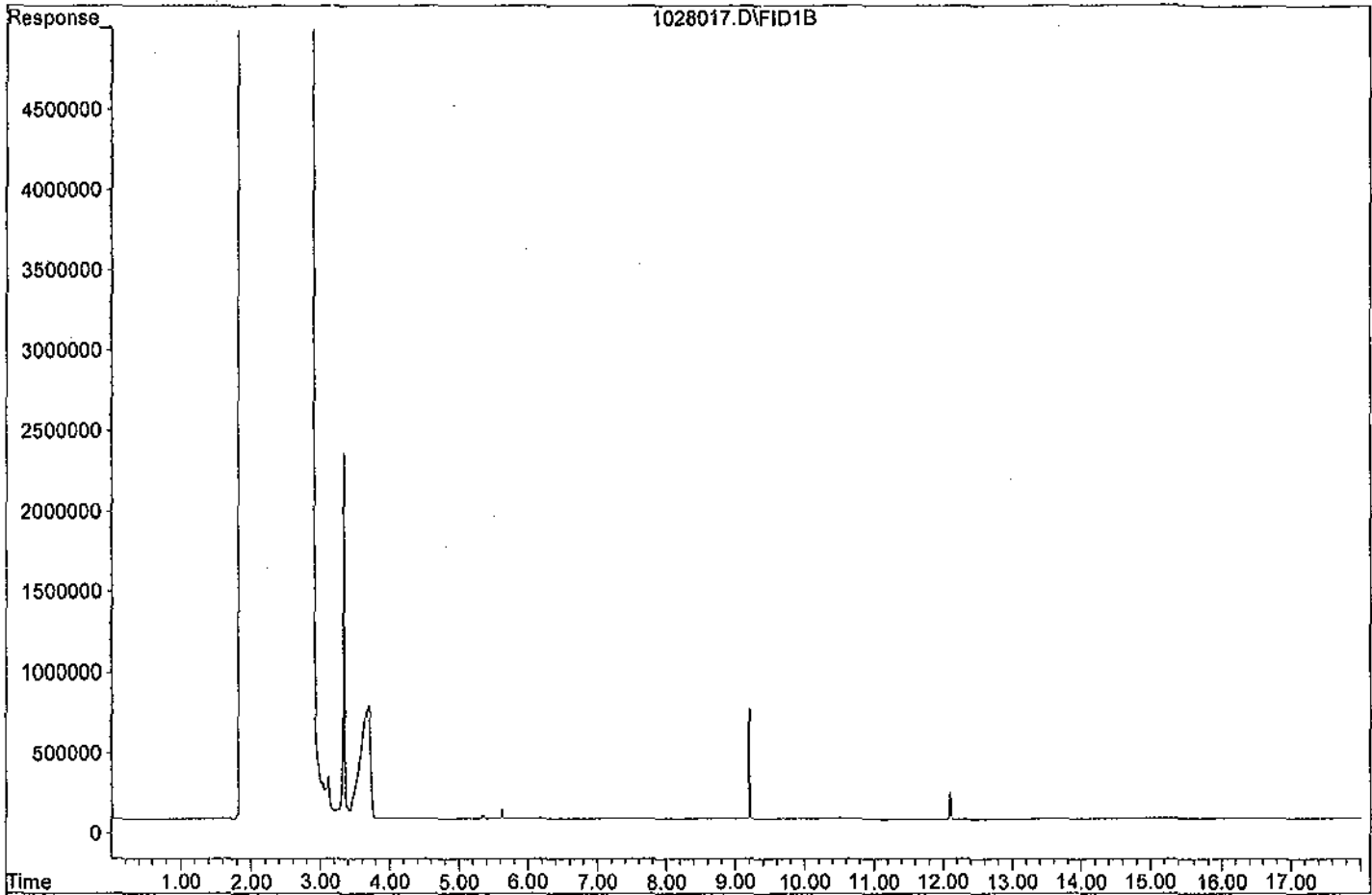
System Monitoring Compounds

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\111028\1028017.D

Sample : THC SURR 100/1000



Data File : G:\APOLLO\DATA\111028\1028018.D Vial: 18
 Acq On : 10-28-11 15:50:20 Operator: LAC
 Sample : THC SURR 400/1000 Inst : Apollo
 Misc : Mix(C) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 31 9:01 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

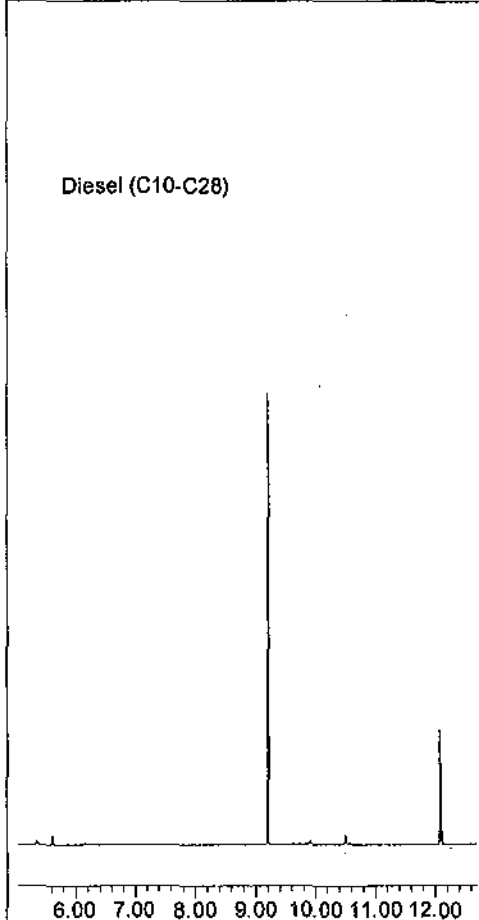
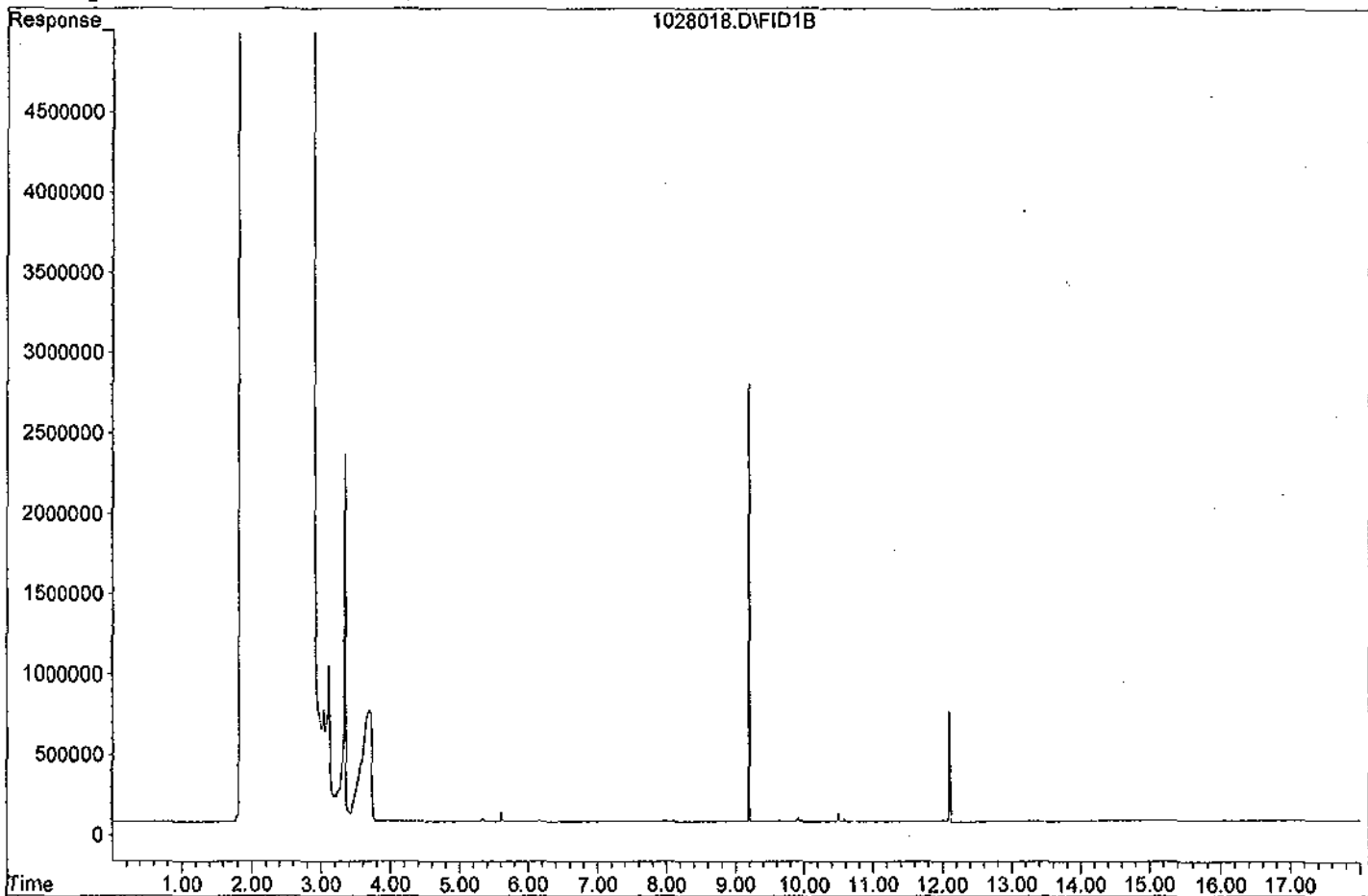
Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

Target Compounds

Data File: G:\APOLLO\DATA\111028\1028018.D

Sample : THC SURR 400/1000



Data File : G:\APOLLO\DATA\111028\1028019.D Vial: 19
 Acq On : 10-28-11 16:14:52 Operator: LAC
 Sample : THC SURR 600/1000 Inst : Apollo
 Misc : Mix(C) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 31 9:01 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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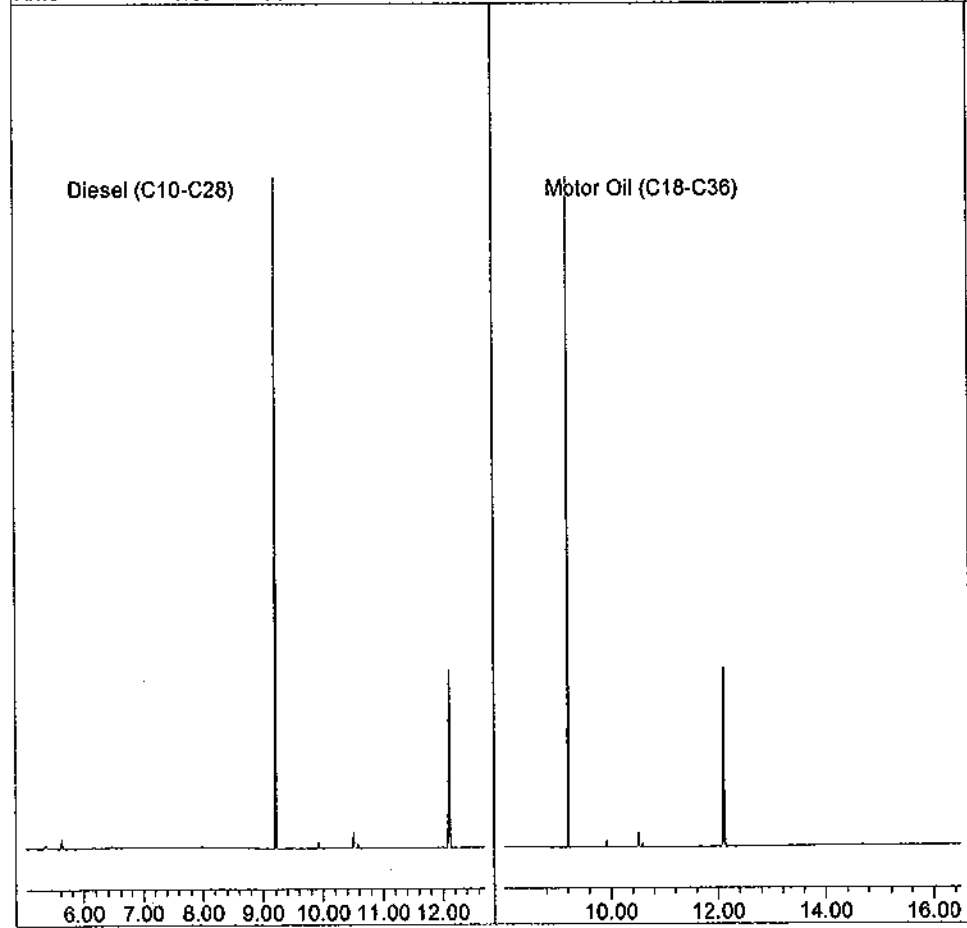
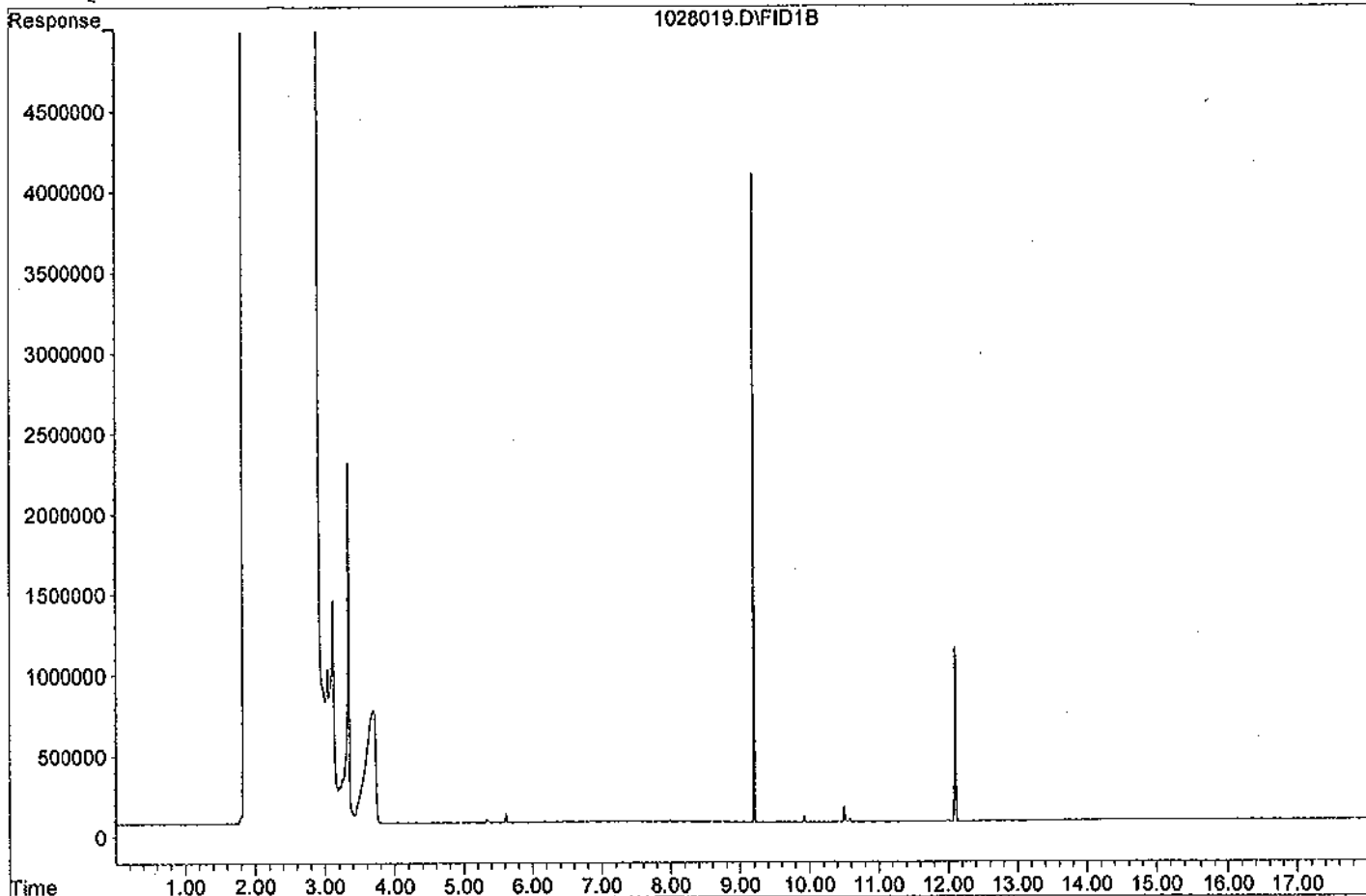
System Monitoring Compounds

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\111028\1028019.D

Sample : THC SURR 600/1000



Data File : G:\APOLLO\DATA\111028\1028020.D Vial: 20
 Acq On : 10-28-11 16:38:57 Operator: LAC
 Sample : THC SURR 800/1000 Inst : Apollo
 Misc : Mix(C) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 31 9:01 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

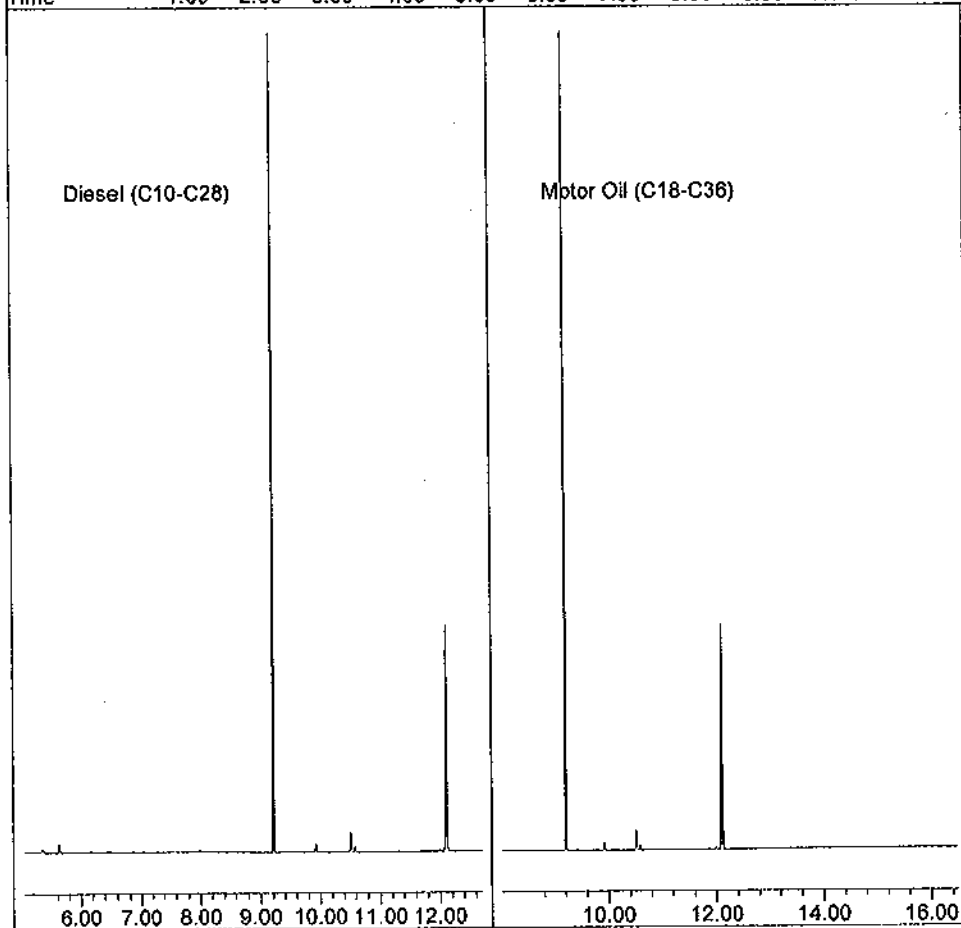
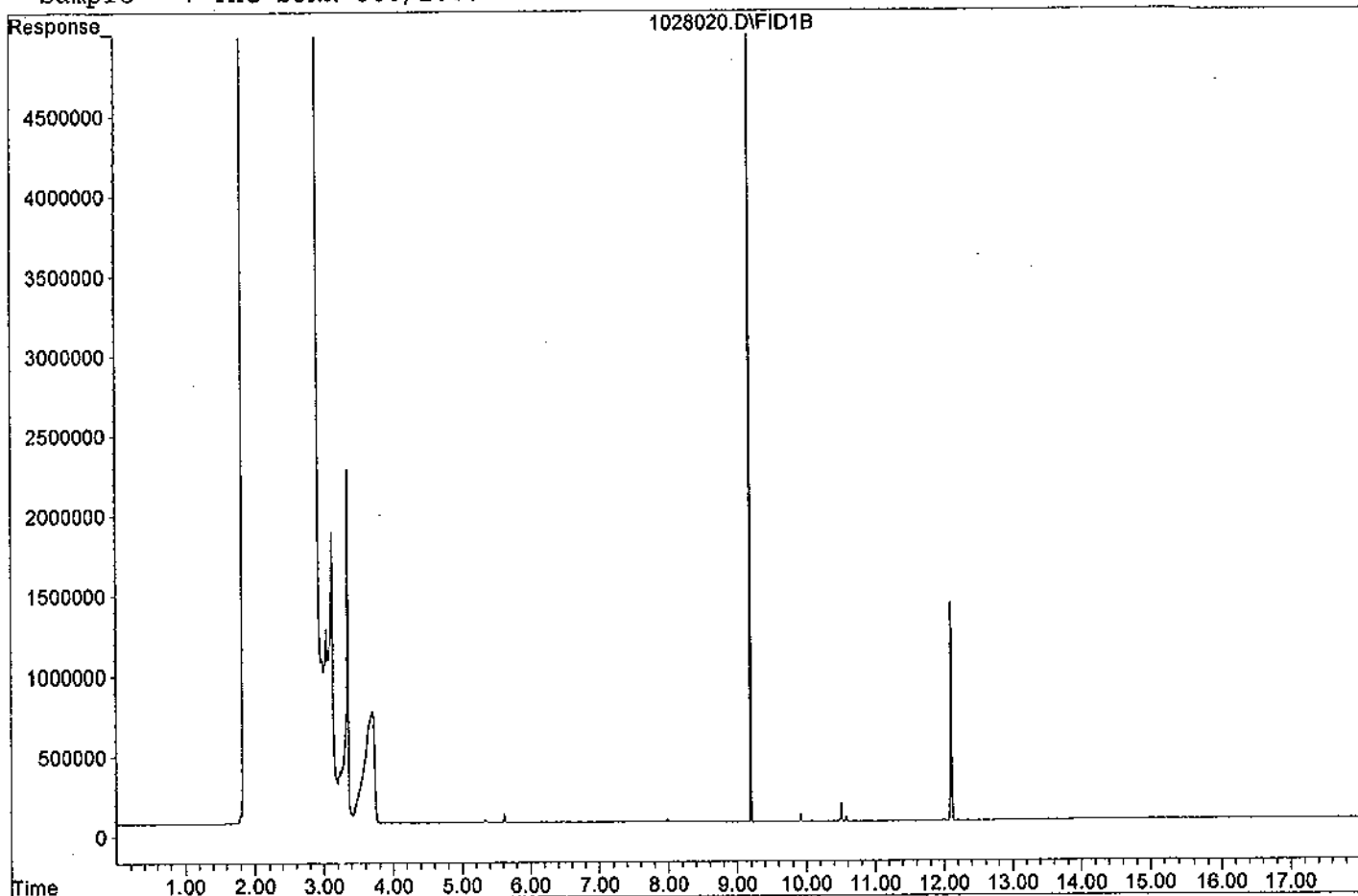
Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\111028\1028020.D
Sample : THC SURR 800/1000



Data File : G:\APOLLO\DATA\111028\1028021.D Vial: 21
 Acq On : 10-28-11 17:03:06 Operator: LAC
 Sample : THC SURR 1000/1000 Inst : Apollo
 Misc : Mix(C) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 31 9:00 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

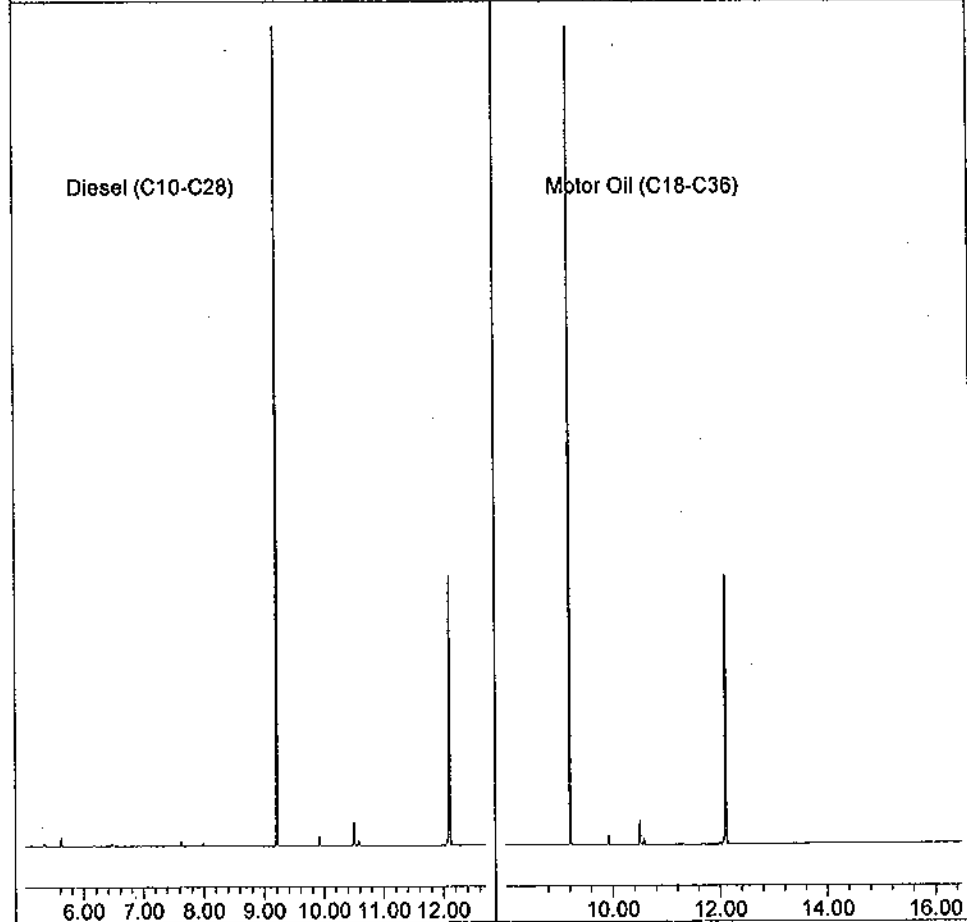
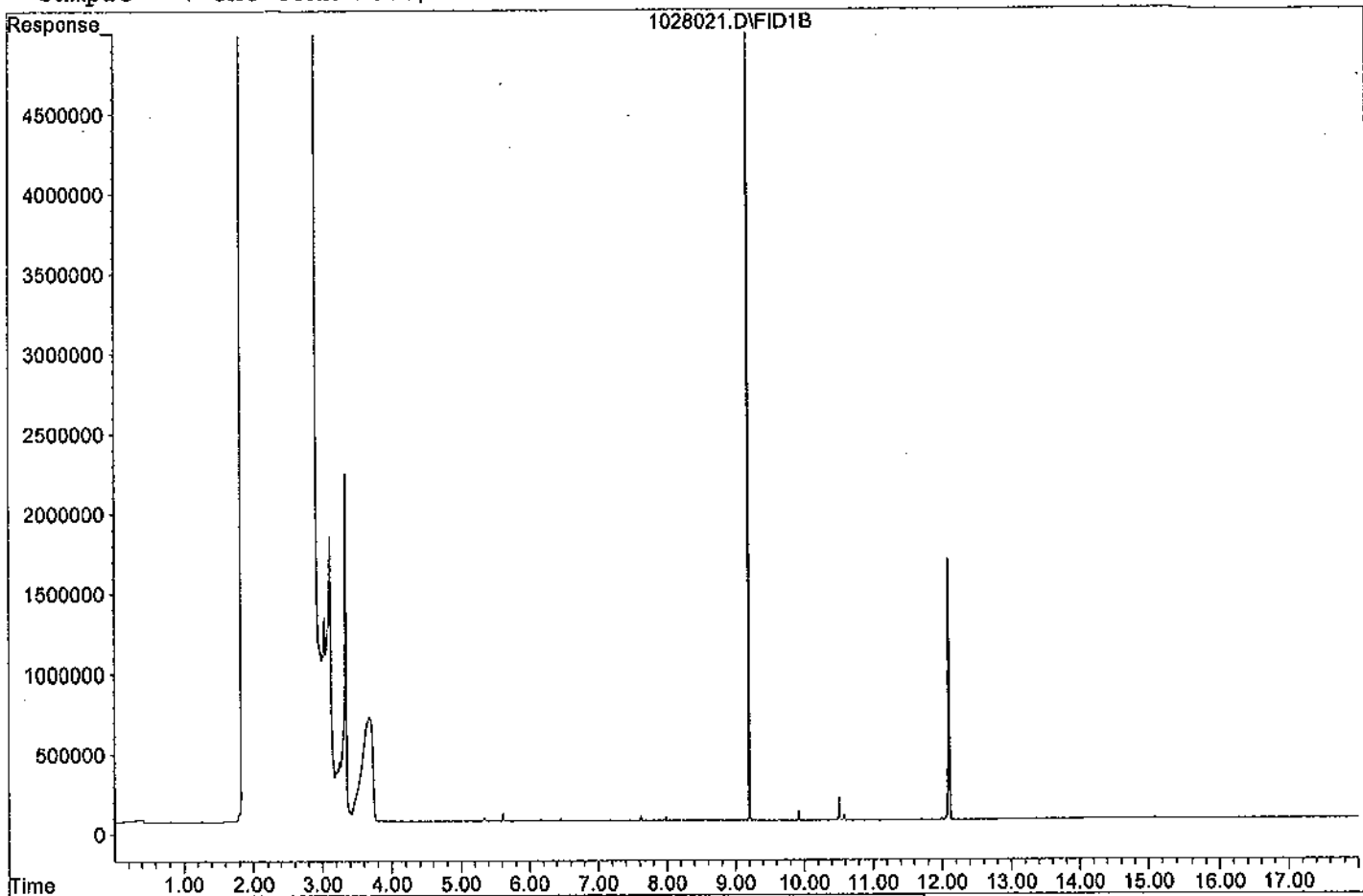
Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\111028\1028021.D
Sample : THC SURR 1000/1000



TPH Extractables
TPH1028

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: 66116
Date Analyzed: 10/28/11
Instrument: Apollo
Initial Cal. Date: 10/28/11
Data File: 1028015.D

		Compound	MEAN	CCRF	%D	%Drift
1	HATM	Diesel (C10-C28)	420946	437681	4.0	HATM
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
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29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						

Average

4.0

Data File : G:\APOLLO\DATA\111028\1028015.D Vial: 15
 Acq On : 10-28-11 14:37:14 Operator: LAC
 Sample : DIESEL 2ND SRC 10/28/11 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Oct 28 14:00 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

3) SA Not Used(S)	9.20	4372560	4.067 ppb
Surrogate Spike 30.000		Recovery =	13.56%
5) SA Not Used2(S)	12.09	211361	0.427 ppb
Surrogate Spike 30.000		Recovery =	1.42%

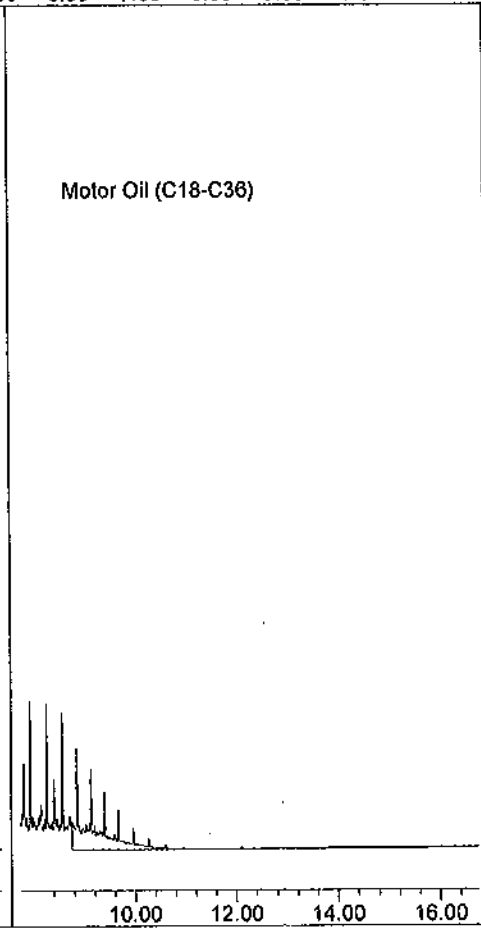
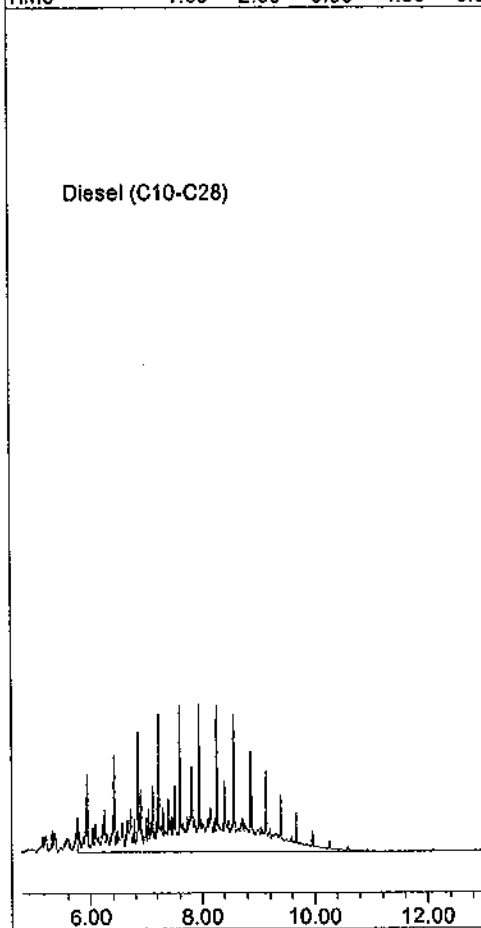
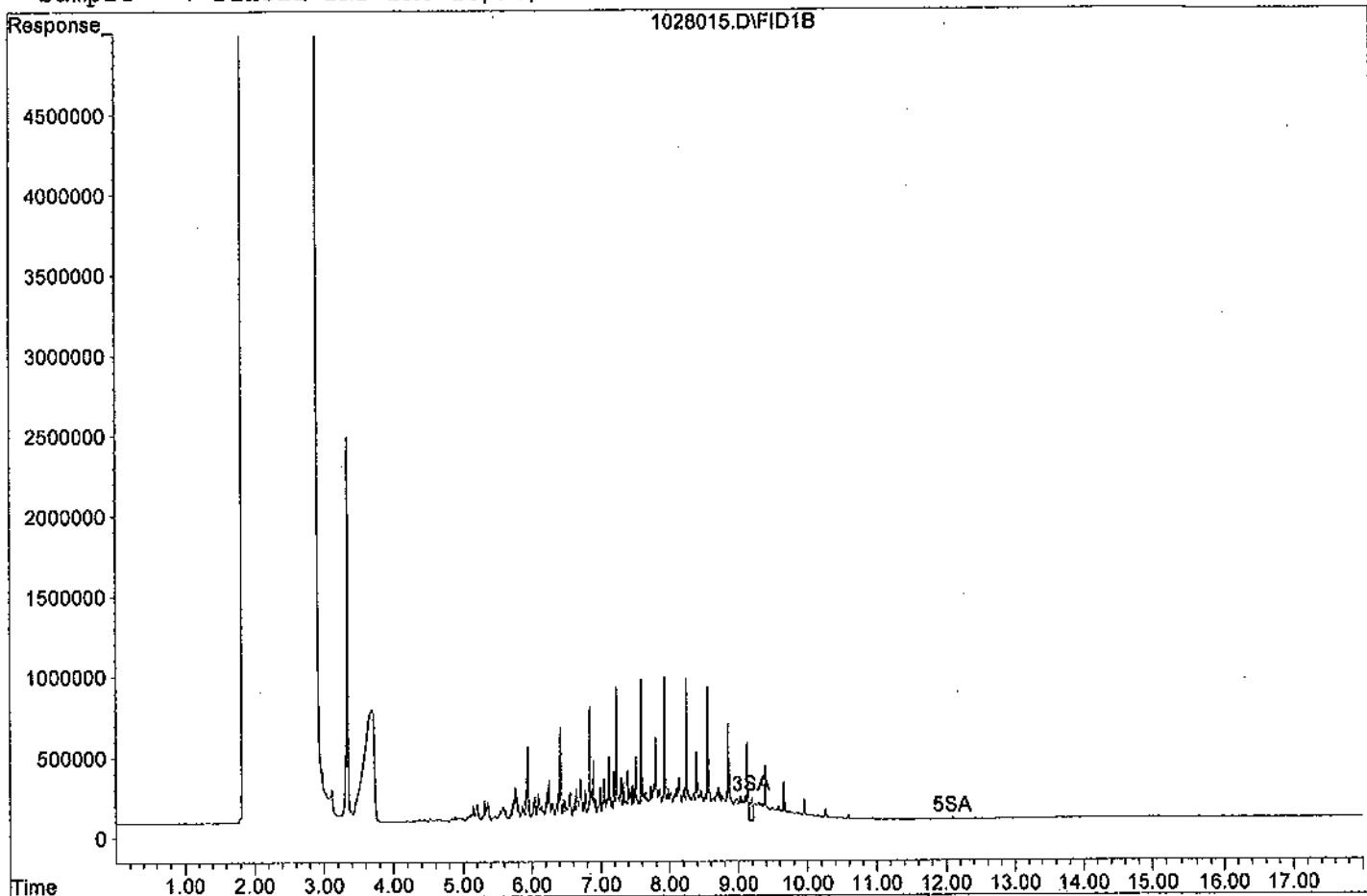
Target Compounds

1) HATM Diesel (C10-C28)	8.86	350144889	415.903 ppb
2) HBTM Motor Oil (C18-C36)	12.25	92370482	254.784 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\111028\1028015.D

Sample : DIESEL, 2ND SRC 10/28/11



TPH Extractables
TPH1028

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: 66116
Date Analyzed: 11/06/11
Instrument: Apollo
Initial Cal. Date: 10/28/11
Data File: 1106003.D

	Compound	MEAN	CCRF	%D	%Drift
1	HATM Diesel (C10-C28)	420946	359274	15	HATM
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
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35					
36					
37					
38					
39					
40	Average			15.0	

Data File : G:\APOLLO\DATA\111106\1106003.D Vial: 3
 Acq On : 11-6-11 16:34:49 Operator: LAC
 Sample : DIESEL 400/1000 10/28/11 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 7 9:16 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound R.T. Response Conc Units

 System Monitoring Compounds

3) SA Not Used(S)	9.21	21346070	19.854 ppb
Surrogate Spike 30.000		Recovery =	66.18%
4) SC Ortho-Terphenyl(S)	9.21	21346070	24.480 ppb
Surrogate Spike 30.000		Recovery =	81.60%
5) SA Not Used2(S)	12.11	11940260	24.100 ppb
Surrogate Spike 30.000		Recovery =	80.33%
6) SC Octacosane(S)	12.11	11940260	25.659 ppb
Surrogate Spike 30.000		Recovery =	85.53%

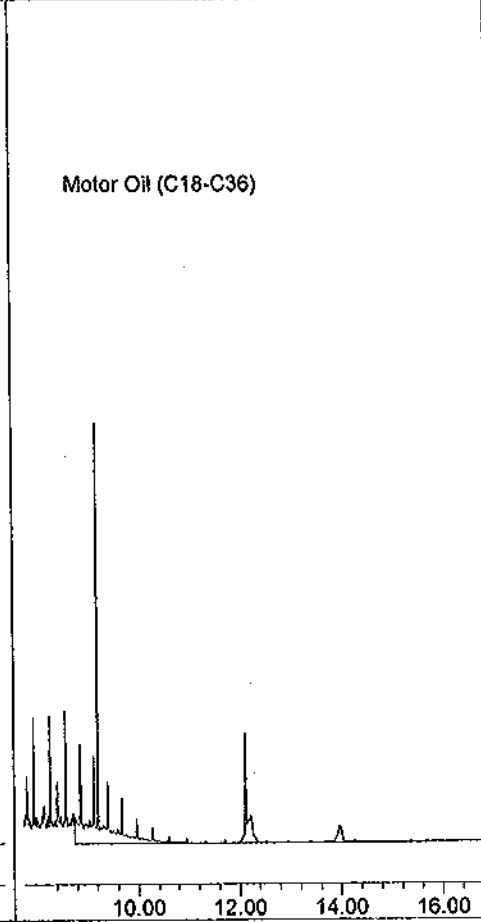
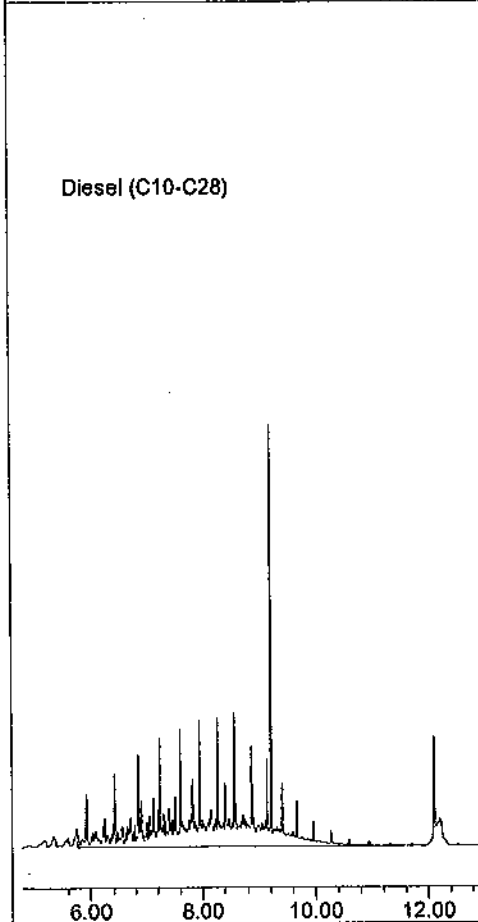
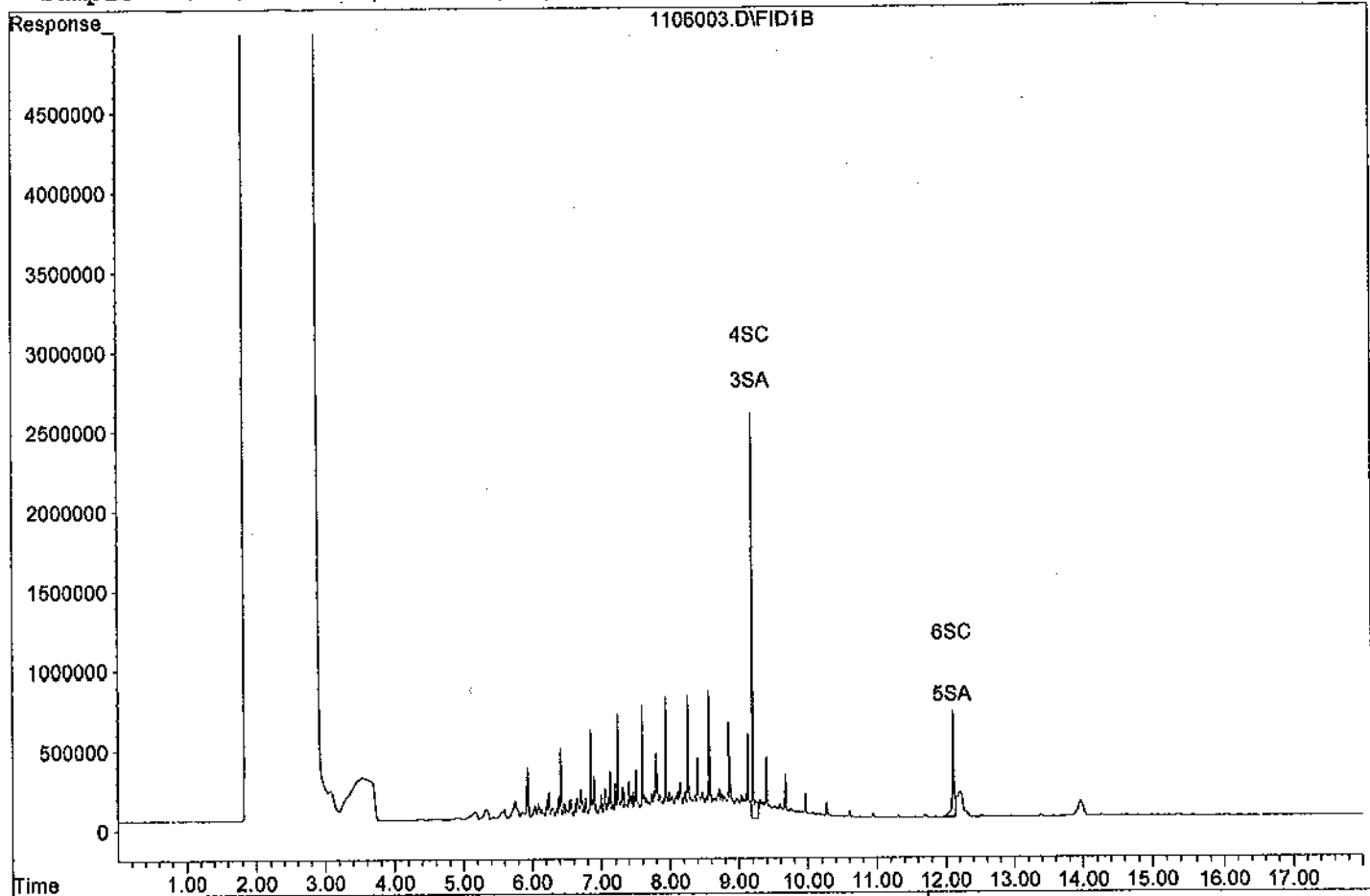
Target Compounds

1) HATM Diesel (C10-C28)	8.86	287418867	341.397 ppb
2) HBTM Motor Oil (C18-C36)	12.25	102192727	281.876 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\111106\1106003.D

Sample : DIESEL 400/1000 10/28/11



TPH Extractables
TPH1028

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: 66116
Date Analyzed: 11/06/11
Instrument: Apollo
Initial Cal. Date: 10/28/11
Data File: 1106017.D

	Compound	MEAN	CCRF	%D	%Drift
1	HATM Diesel (C10-C28)	420946	369827	12	HATM
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
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30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			12.0	

Data File : G:\APOLLO\DATA\111106\1106017.D Vial: 17
 Acq On : 11-6-11 22:03:47 Operator: LAC
 Sample : DIESEL 400/1000 11/2/11 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 7 9:17 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

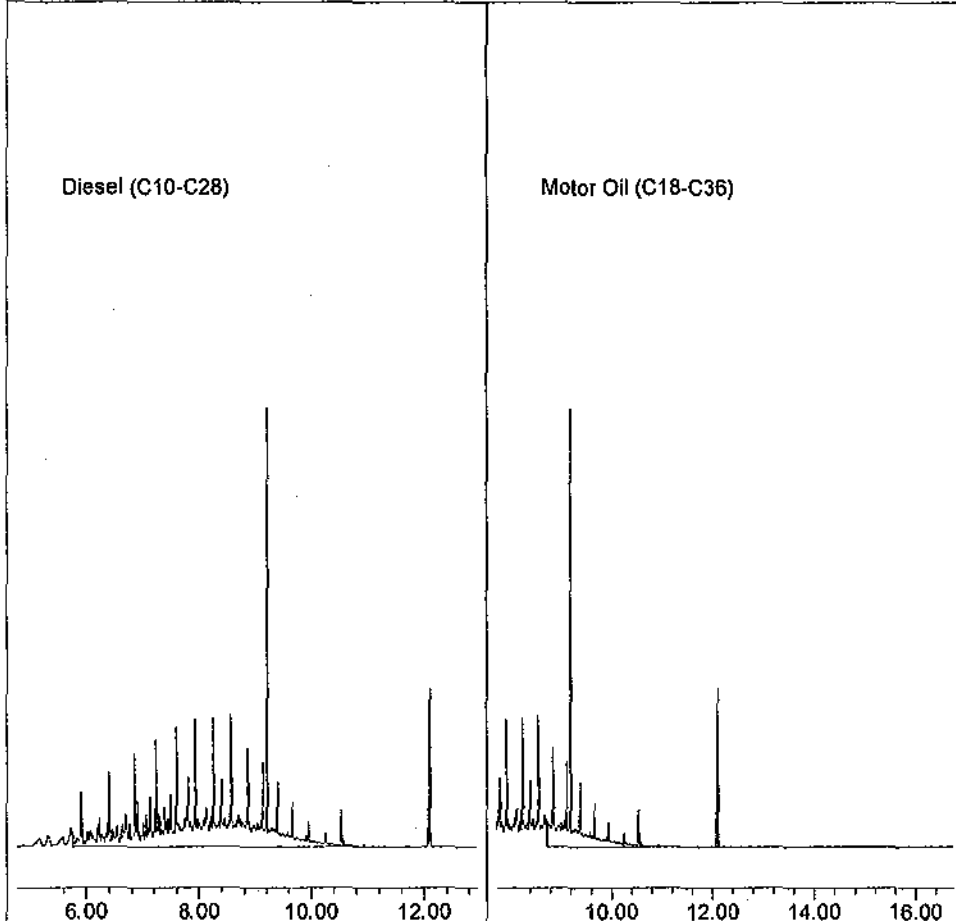
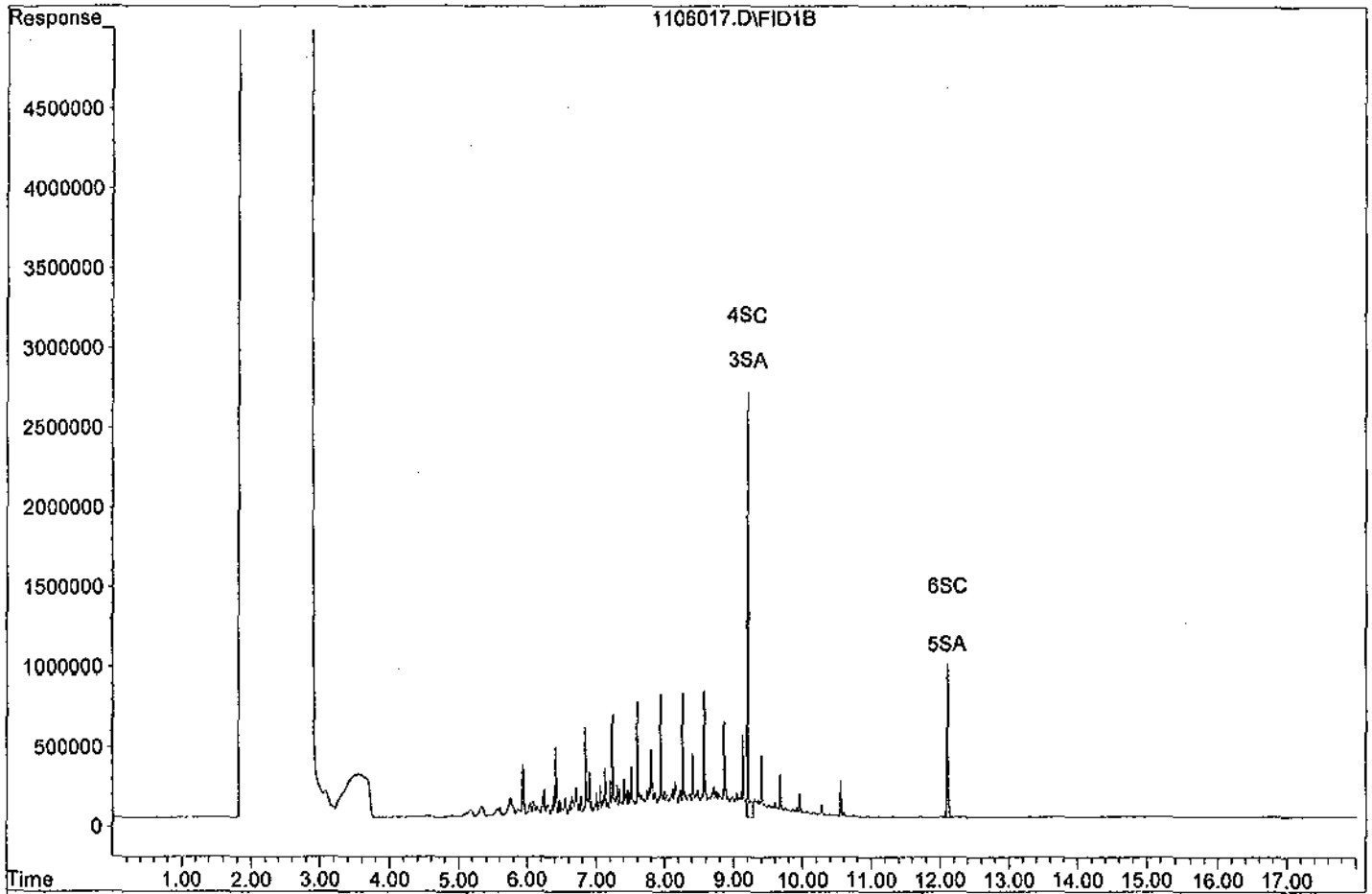
3) SA Not Used(S)	9.21	22135697	20.589 ppb
Surrogate Spike 30.000		Recovery =	68.63%
4) SC Ortho-Terphenyl(S)	9.21	22135697	25.385 ppb
Surrogate Spike 30.000		Recovery =	84.62%
5) SA Not Used2(S)	12.10	13104105	26.450 ppb
Surrogate Spike 30.000		Recovery =	88.17%
6) SC Octacosane(S)	12.10	13104105	28.160 ppb
Surrogate Spike 30.000		Recovery =	93.87%

Target Compounds

1) HATM Diesel (C10-C28)	8.86	295861444	351.425 ppb
2) HBTM Motor Oil (C18-C36)	12.25	88714324	244.699 ppb

Data File: G:\APOLLO\DATA\111106\1106017.D

Sample : DIESEL 400/1000 11/2/11



TPH Extractables
TPH1028

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: 66116
Date Analyzed: 11/07/11
Instrument: Apollo
Initial Cal. Date: 10/28/11
Data File: 1106027.D

	Compound	MEAN	CCRF	%D	%Drift
1	HATM Diesel (C10-C28)	420946	339247	19	HATM
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
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27					
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30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			19.0	

Data File : G:\APOLLO\DATA\111106\1106027.D
 Acq On : 11-7-11 1:56:08
 Sample : DIESEL 400/1000 11/2/11
 Misc : Mix(A)
 IntFile : events.e

Vial: 27
 Operator: LAC
 Inst : Apollo
 Multiplr: 1.00

Quant Time: Nov 7 9:17 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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 System Monitoring Compounds

3) SA Not Used(S)	9.21	20565649	19.129 ppb
Surrogate Spike 30.000		Recovery =	63.76%
4) SC Ortho-Terphenyl(S)	9.21	20565649	23.585 ppb
Surrogate Spike 30.000		Recovery =	78.62%
5) SA Not Used2(S)	12.10	11836262	23.890 ppb
Surrogate Spike 30.000		Recovery =	79.63%
6) SC Octacosane(S)	12.10	11836262	25.435 ppb
Surrogate Spike 30.000		Recovery =	84.78%

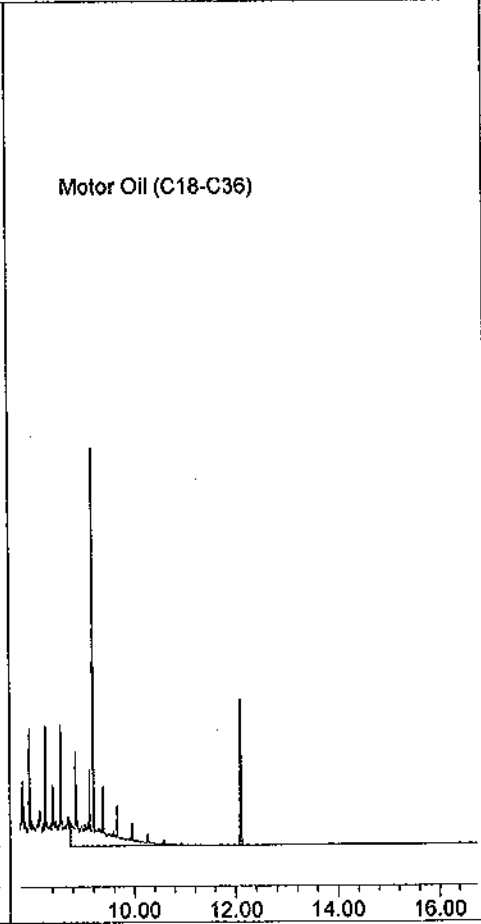
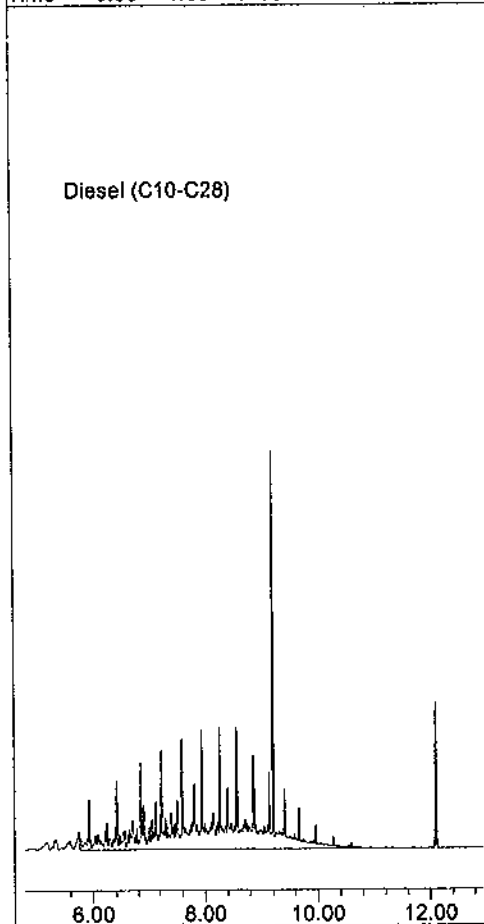
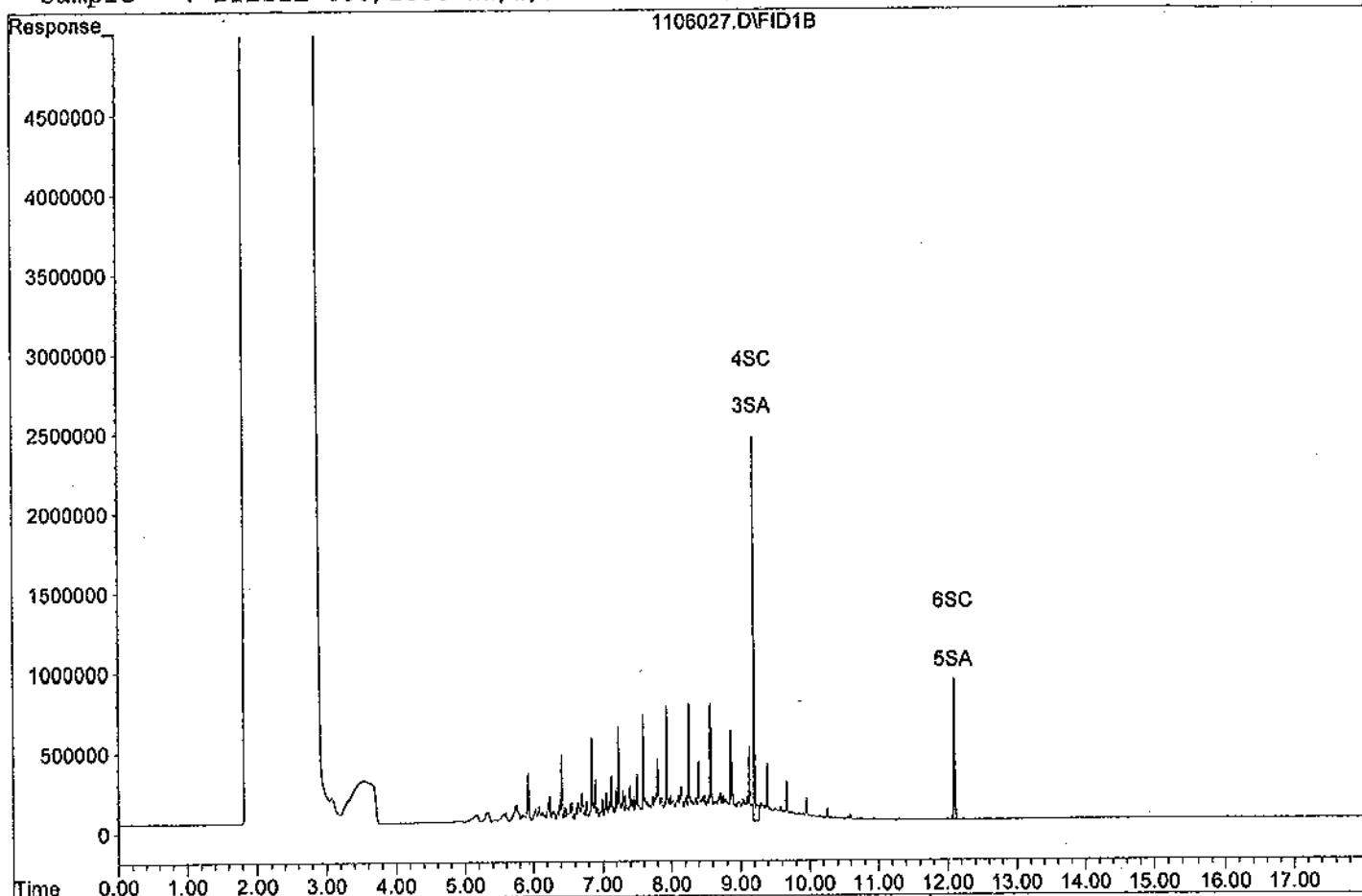
Target Compounds

1) HATM Diesel (C10-C28)	8.86	271397500	322.367 ppb
2) HBTM Motor Oil (C18-C36)	12.25	79648905	219.694 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\111106\1106027.D

Sample : DIESEL 400/1000 11/2/11



TPH Extractables
TPH8S15

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: 66116
Initial Cal. Date: 11/08/11
Instrument: Apollo

Initials: LAC

1115021.D 1115022.D 1115023.D 1115024.D 1115025.D 1115026.D

	Compound	1	2	3	4	5	6					Avg	%RSD		
1	HATML Diesel (C10-C28)	613132	243101	243681	243678	244044	245201					305473	49	HATML	1.000
2	HBTM Motor Oil (C18-C36)	140437	99632	104190	111186	115900	125373					116103	13	HBTM	
3	SA Not Used(S)	302444	320737	318016	323983	383528	387566					339379	11	SA	
4	SC Ortho-Terphenyl(S)	356915	320797	300581	304073	324333	307361					319010	6.5	SC	
5	SA Not Used2(S)		81698	75651	78041	78921	79877					78938	2.8	SA	
6	SC Octacosane(S)		121445	115156	113245	126484	120297					119325	4.4	SC	
7															
8															
9															
10															
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2.4787102

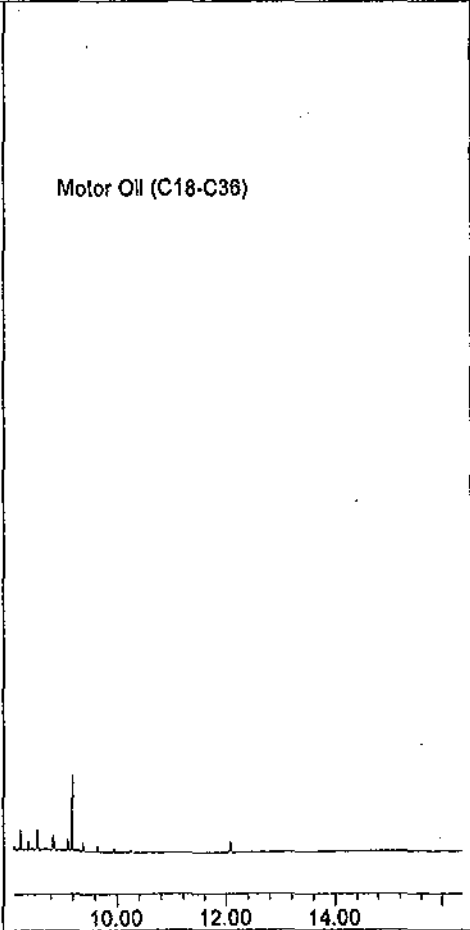
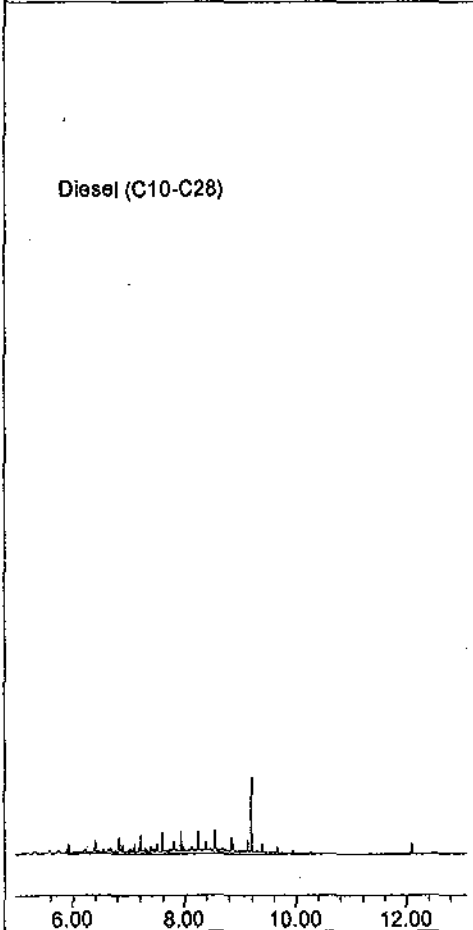
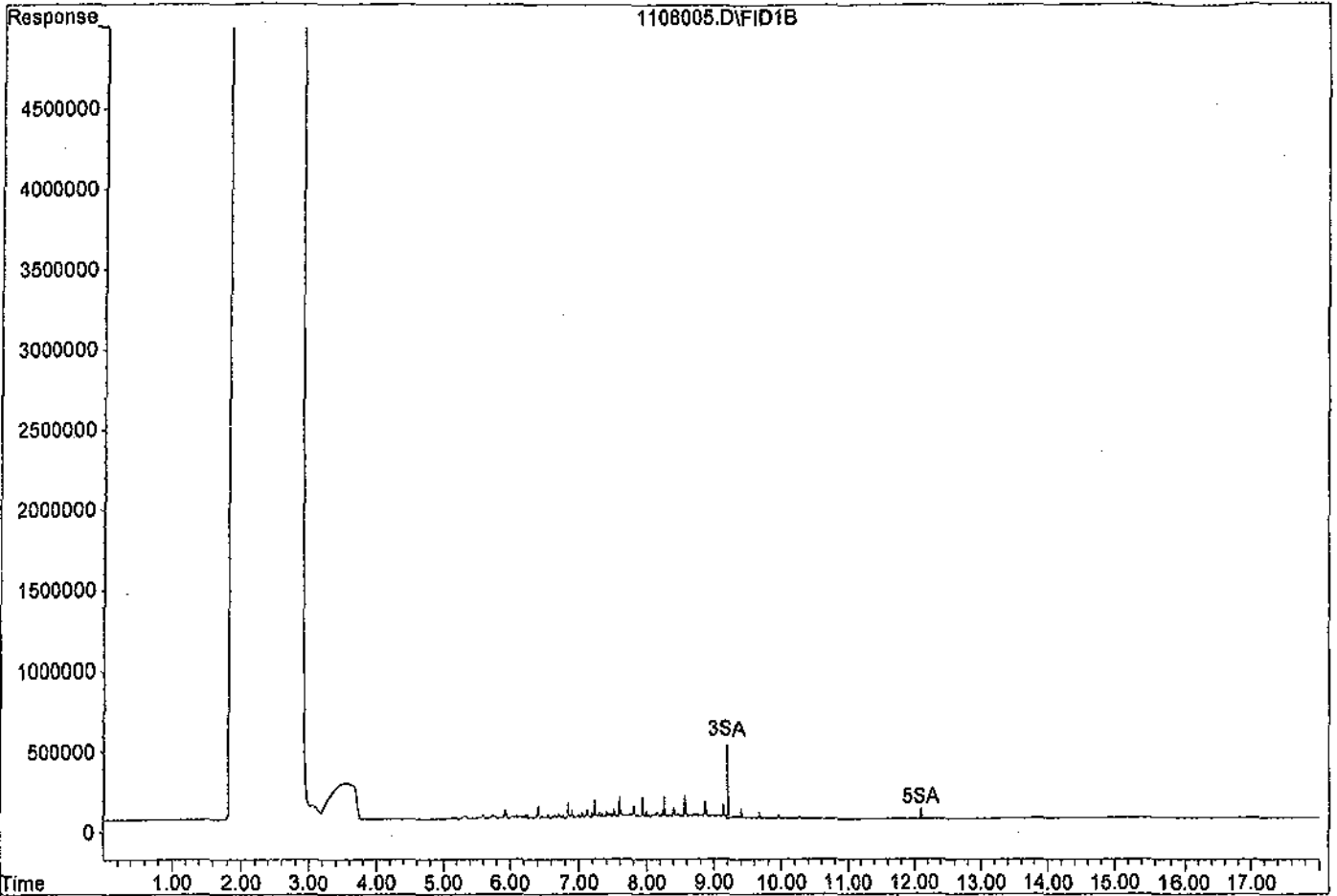
Data File : G:\APOLLO\DATA\111108\1108005.D Vial: 5
Acq On : 11-8-11 15:50:59 Operator: LAC
Sample : DIESEL 100/1000 Inst : Apollo
Misc : Mix(A) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 16 9:53 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 17 09:41:49 2011
Response via : Multiple Level Calibration

Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.20	3207373	3.154 ppb
Surrogate Spike 30.000		Recovery =	10.51%
5) SA Not Used2(S)	12.09	816983	2.773 ppb
Surrogate Spike 30.000		Recovery =	9.24%
Target Compounds			
1) HATM Diesel (C10-C28)	9.01	48620150	767.290 ppb

Data File: G:\APOLLO\DATA\111108\1108005.D
Sample : DIESEL 100/1000



Data File : G:\APOLLO\DATA\111108\1108006.D Vial: 6
 Acq On : 11-8-11 16:14:36 Operator: LAC
 Sample : DIESEL 400/1000 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 30 11:52 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111108\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Wed Nov 30 11:52:46 2011
 Response via : Multiple Level Calibration

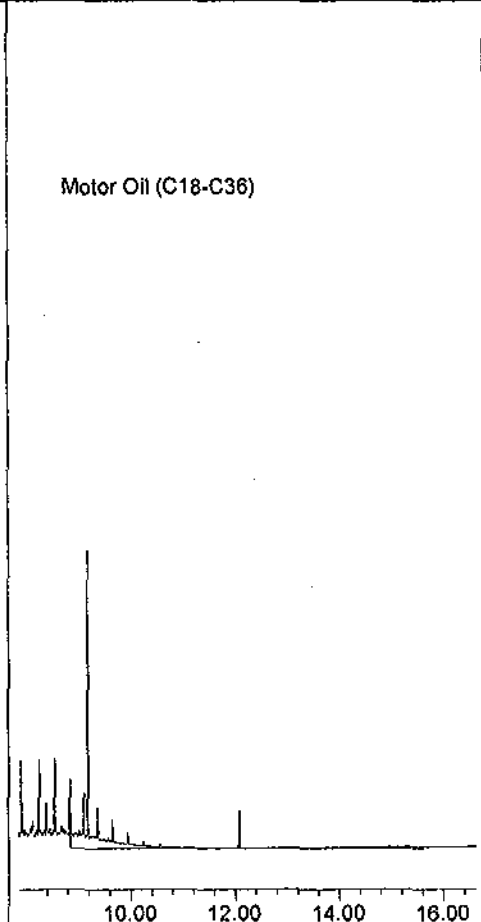
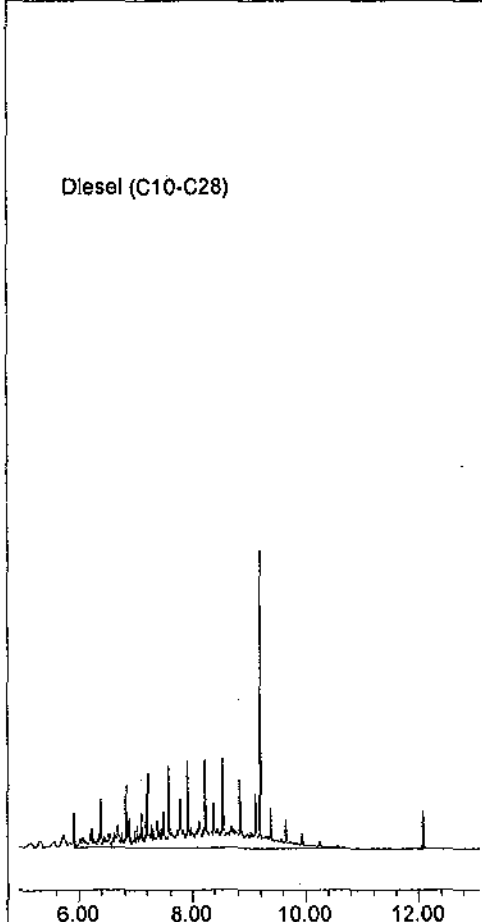
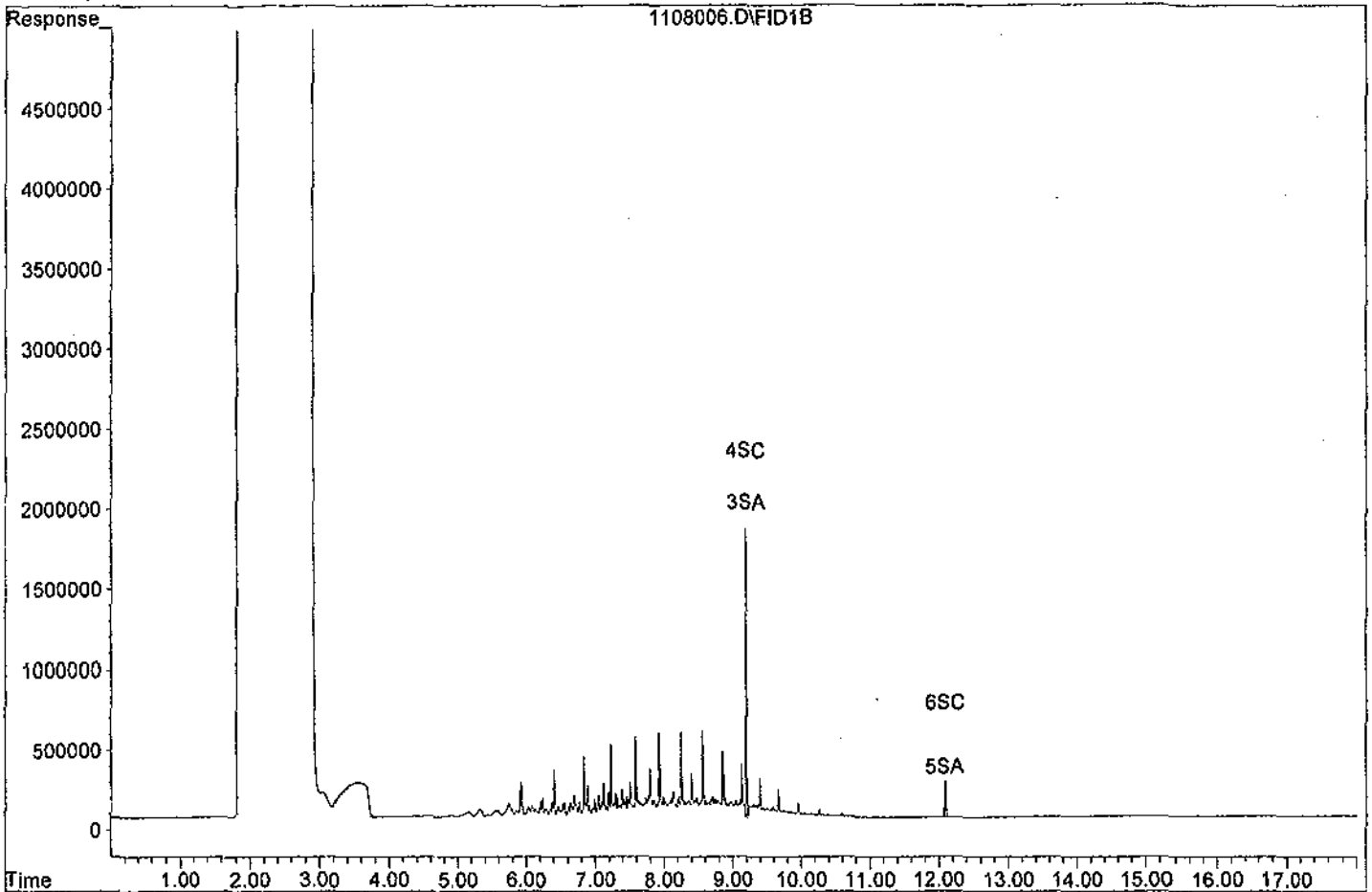
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Not Used(S)	9.20	12720627	18.741 ppb
Surrogate Spike 30.000		Recovery =	62.47%
4) SC Ortho-Terphenyl(S)	9.20	12720627	19.938 ppb
Surrogate Spike 30.000		Recovery =	66.46%
5) SA Not Used2(S)	12.09	3026041	19.192 ppb
Surrogate Spike 30.000		Recovery =	63.97%
6) SC Octacosane(S)	12.09	3026041	12.960 ppb
Surrogate Spike 30.000		Recovery =	43.20%
Target Compounds			
1) HATM Diesel (C10-C28)	9.01	194945056	395.862 ppb
2) HBTM Motor Oil (C18-C36)	12.24	62241854	268.046 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\111108\1108006.D
Sample : DIESEL 400/1000



Data File : G:\APOLLO\DATA\111108\1108007.D Vial: 7
 Acq On : 11-8-11 16:38:14 Operator: LAC
 Sample : DIESEL 600/1000 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 30 11:53 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111108\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Wed Nov 30 11:52:46 2011
 Response via : Multiple Level Calibration

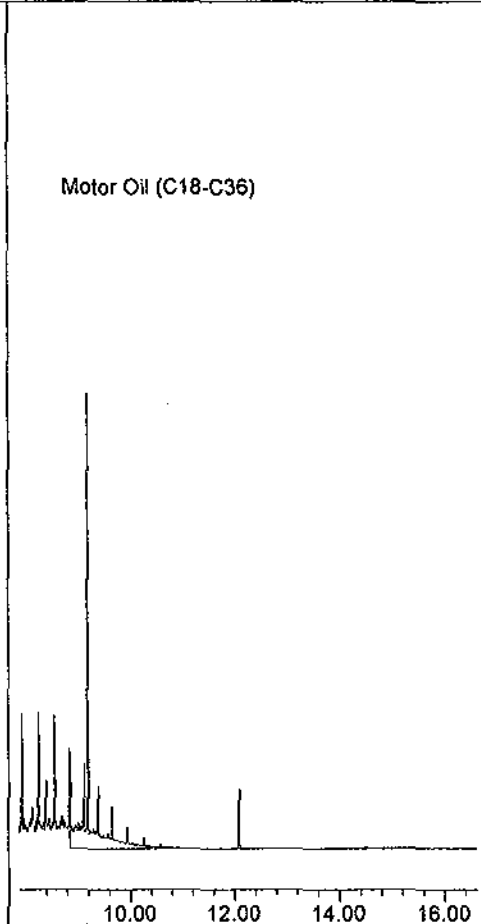
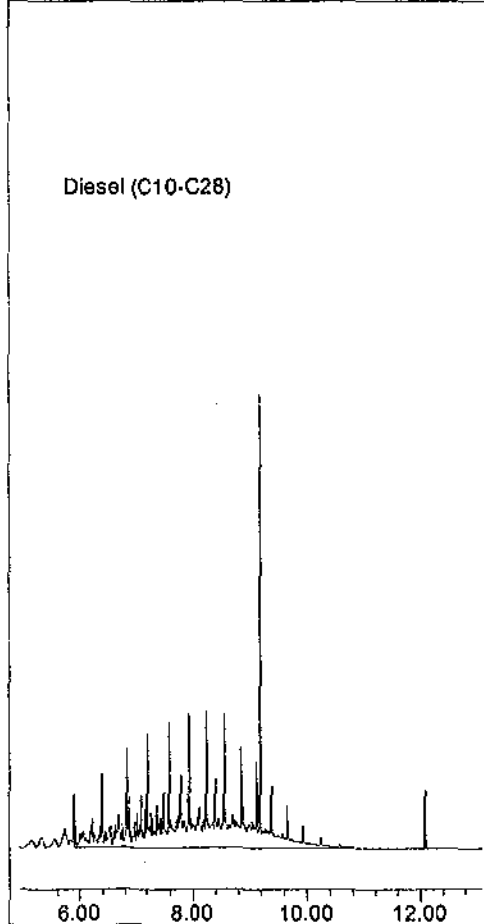
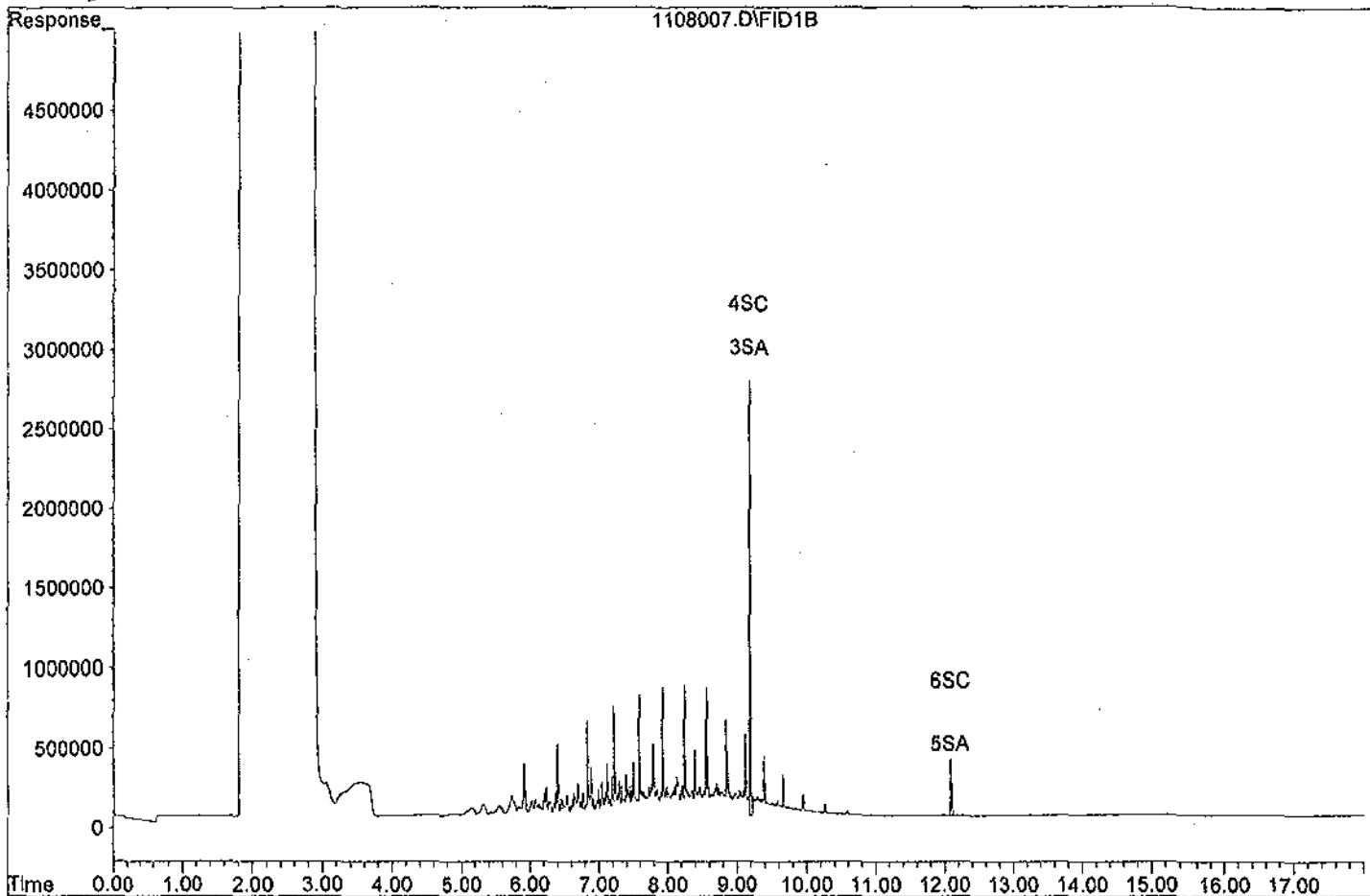
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Not Used(S)	9.20	19438997	28.639 ppb
Surrogate Spike 30.000		Recovery =	95.46%
4) SC Ortho-Terphenyl(S)	9.20	19438997	30.468 ppb
Surrogate Spike 30.000		Recovery =	101.56%
5) SA Not Used2(S)	12.09	4682445	29.697 ppb
Surrogate Spike 30.000		Recovery =	98.99%
6) SC Octacosane(S)	12.09	4682445	20.054 ppb
Surrogate Spike 30.000		Recovery =	66.85%
Target Compounds			
1) HATM Diesel (C10-C28)	9.01	292413883	596.788 ppb
2) HBTM Motor Oil (C18-C36)	12.24	77206924	332.493 ppb

Data File: G:\APOLLO\DATA\111108\1108007.D

Sample : DIESEL 600/1000



Data File : G:\APOLLO\DATA\111108\1108008.D Vial: 8
 Acq On : 11-8-11 17:01:53 Operator: LAC
 Sample : DIESEL 800/1000 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 30 11:53 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111108\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Wed Nov 30 11:52:46 2011
 Response via : Multiple Level Calibration

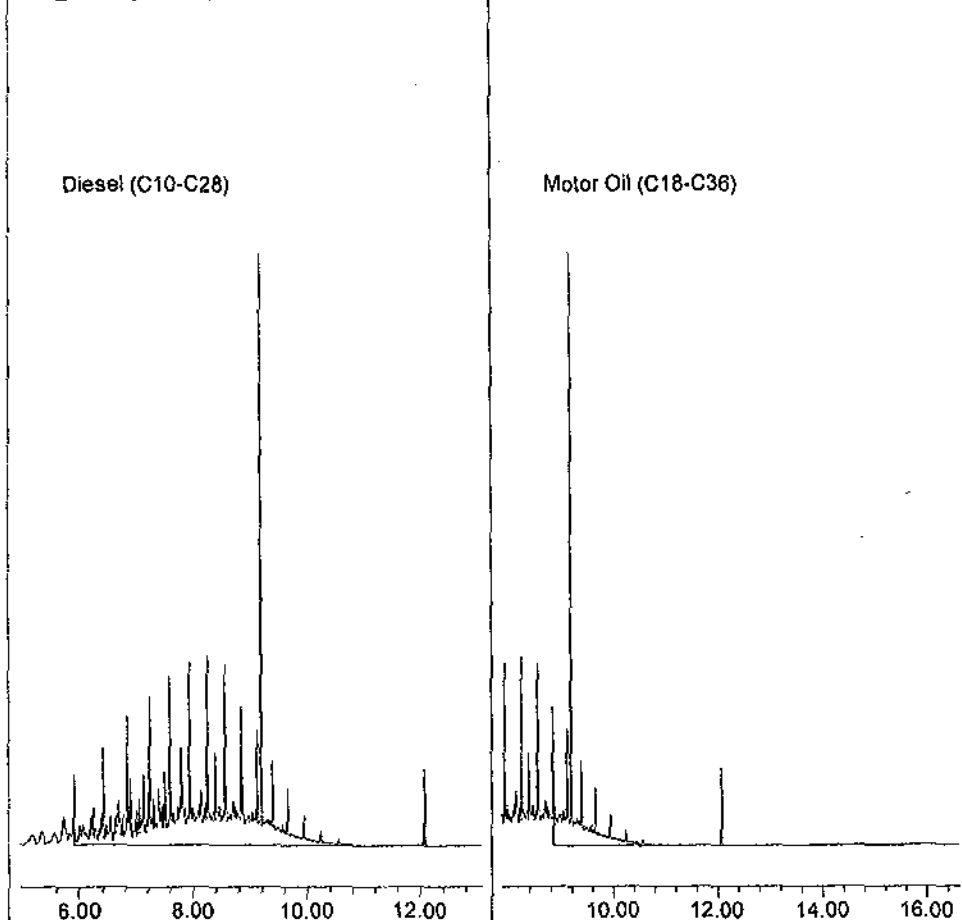
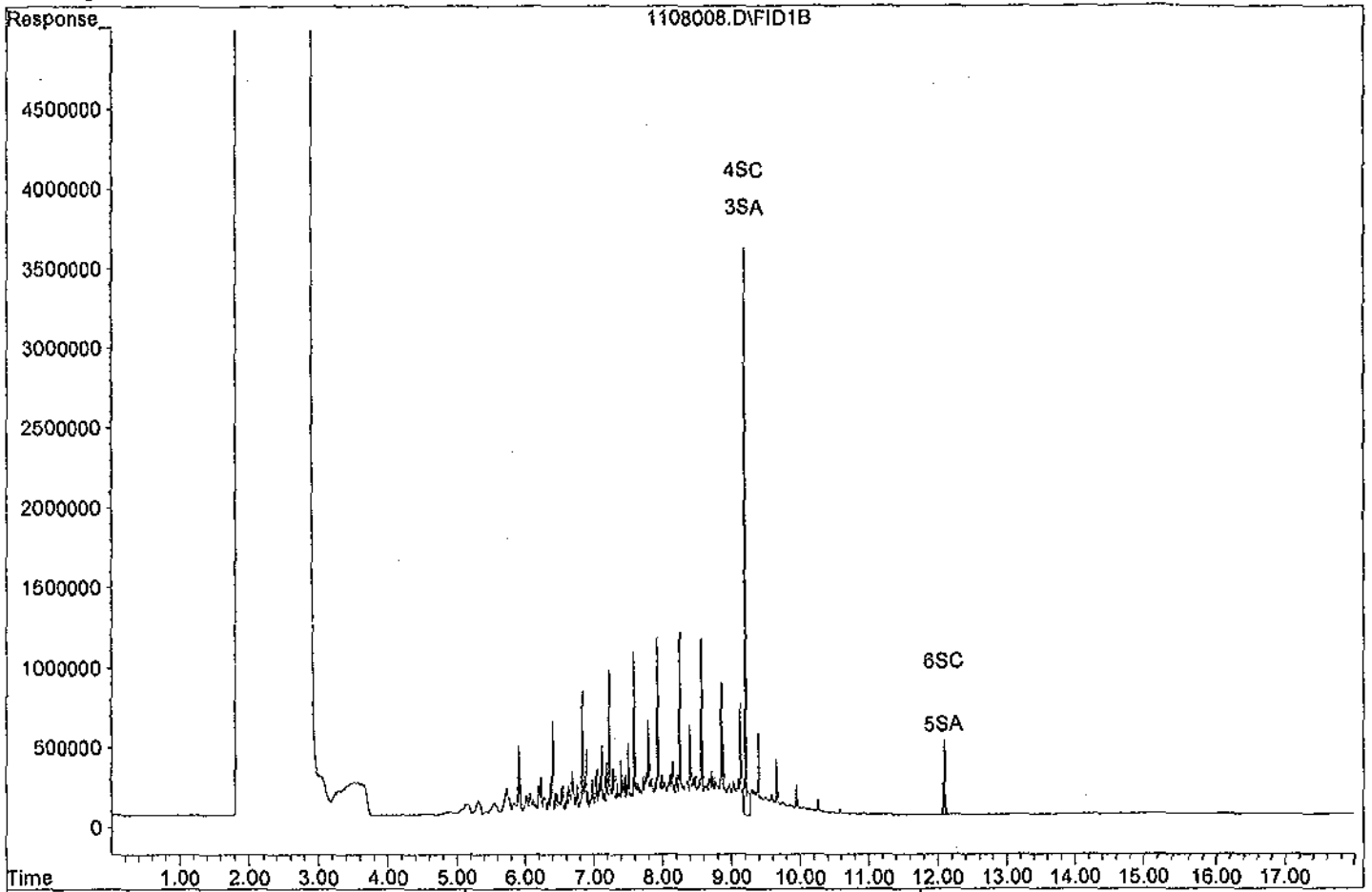
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Not Used(S)	9.20	30682231	45.203 ppb
Surrogate Spike 30.000		Recovery =	150.68%
4) SC Ortho-Terphenyl(S)	9.20	30682231	48.090 ppb
Surrogate Spike 30.000		Recovery =	160.30%
5) SA Not Used2(S)	12.09	6313667	40.042 ppb
Surrogate Spike 30.000		Recovery =	133.47%
6) SC Octacosane(S)	12.09	6313667	27.041 ppb
Surrogate Spike 30.000		Recovery =	90.14%
Target Compounds			
1) HATM Diesel (C10-C28)	9.01	390470225	798.924 ppb
2) HBTM Motor Oil (C18-C36)	12.24	99027136	426.462 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\111108\1108008.D
Sample : DIESEL 800/1000



Data File : G:\APOLLO\DATA\111108\1108009.D Vial: 9
 Acq On : 11-8-11 17:25:32 Operator: LAC
 Sample : DIESEL 1000/1000 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 30 11:53 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111108\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Wed Nov 30 11:52:46 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

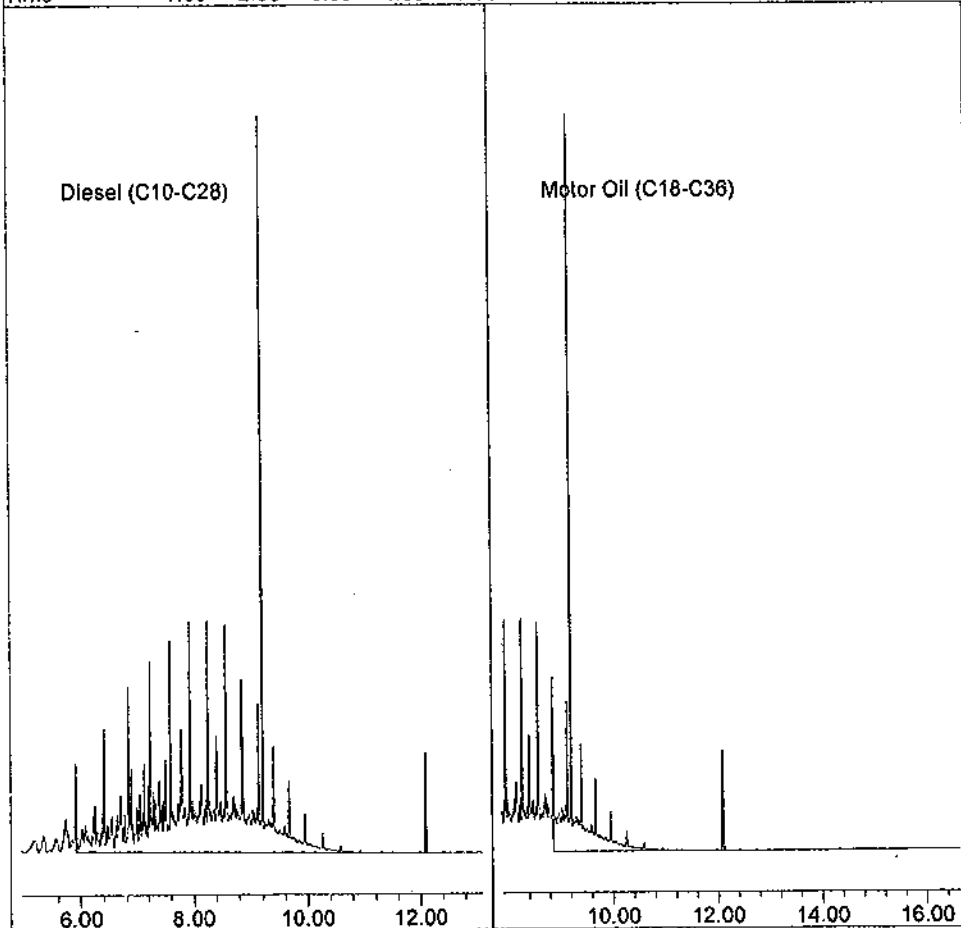
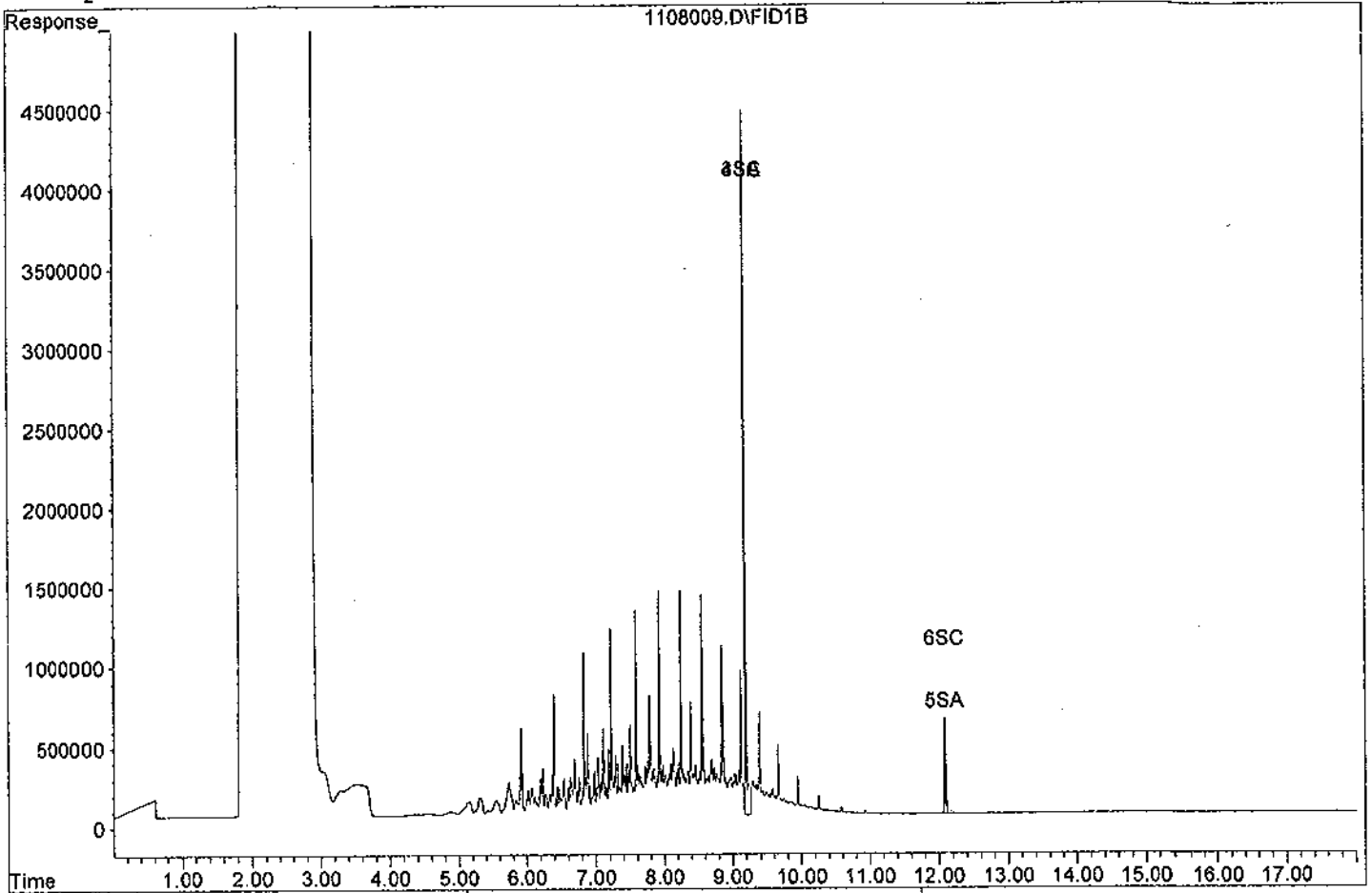
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Not Used(S)	9.20	38756601	57.099 ppb
Surrogate Spike 30.000		Recovery =	190.33%
4) SC Ortho-Terphenyl(S)	9.20	38756601	60.745 ppb
Surrogate Spike 30.000		Recovery =	202.48%
5) SA Not Used2(S)	12.09	7987688	50.659 ppb
Surrogate Spike 30.000		Recovery =	168.86%
6) SC Octacosane(S)	12.09	7987688	34.210 ppb
Surrogate Spike 30.000		Recovery =	114.03%
Target Compounds			
1) HATM Diesel (C10-C28)	9.01	490402243	1004.928 ppb
2) HBTM Motor Oil (C18-C36)	12.24	123592393	532.253 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\111108\1108009.D

Sample : DIESEL 1000/1000



Data File : G:\APOLLO\DATA\111108\1108011.D Vial: 11
Acq On : 11-8-11 18:12:45 Operator: LAC
Sample : MOTOR OIL 50/1000 11/8/11 Inst : Apollo
Misc : Mix(B) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 16 9:53 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 17 09:41:49 2011
Response via : Multiple Level Calibration

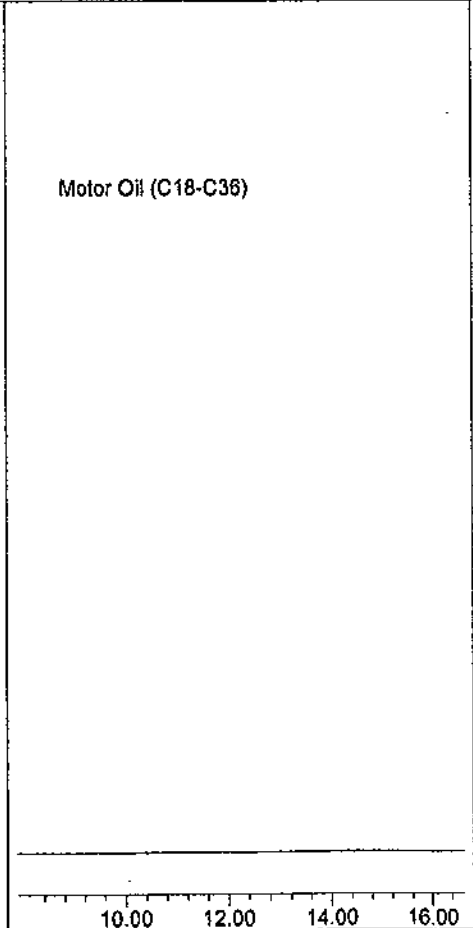
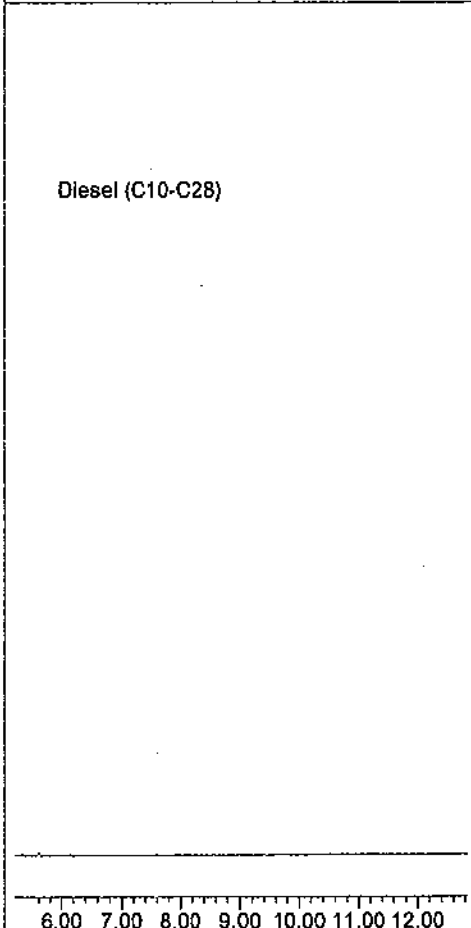
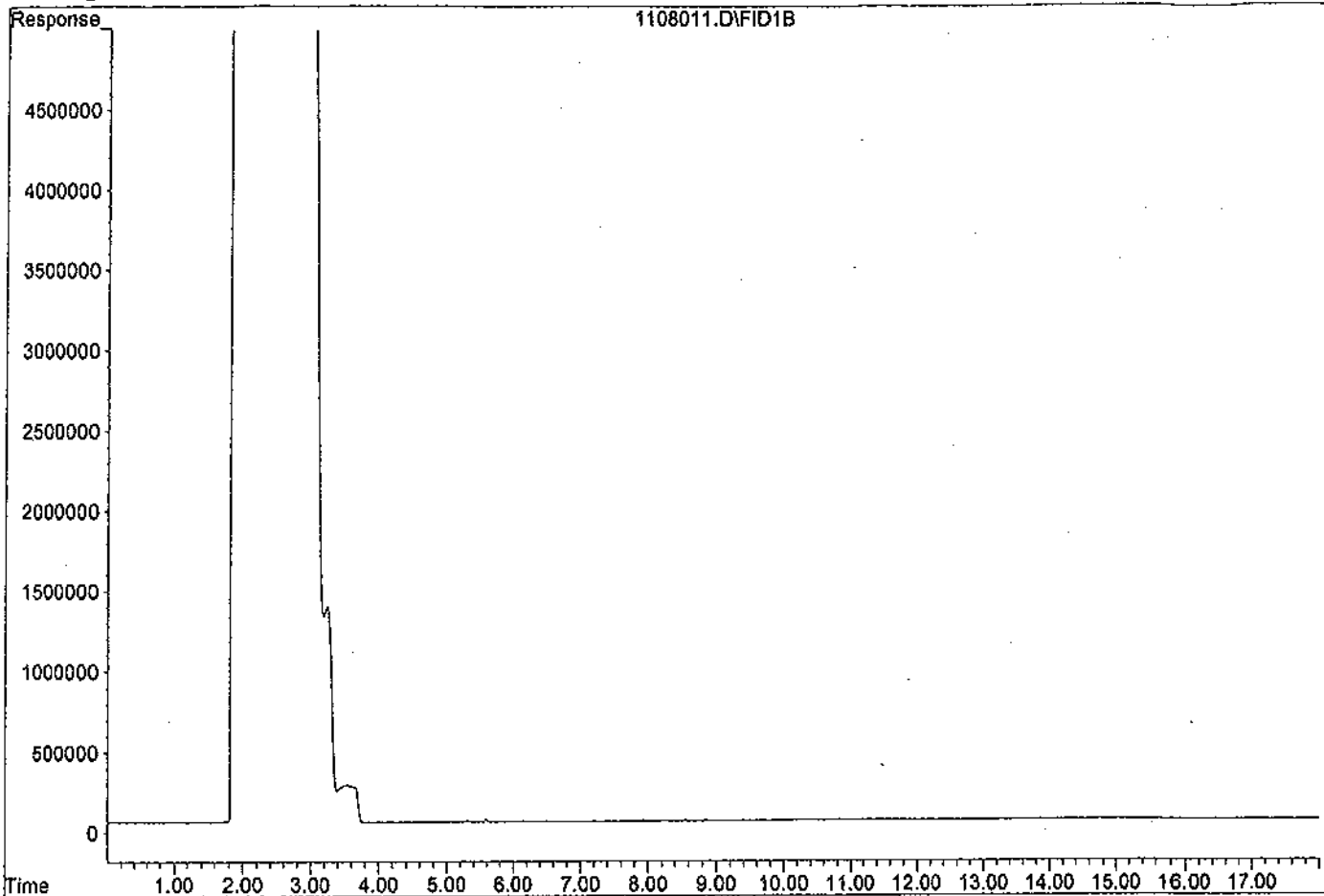
Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
Target Compounds			
2) HBTM Motor Oil (C18-C36)	12.24	14043686	169.078 ppb

Data File: G:\APOLLO\DATA\111108\1108011.D

Sample : MOTOR OIL 50/1000 11/8/11



Data File : G:\APOLLO\DATA\111108\1108012.D Vial: 12
 Acq On : 11-8-11 18:36:14 Operator: LAC
 Sample : MOTOR OIL 100/1000 Inst : Apollo
 Misc : Mix(B) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 9:53 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 17 09:41:49 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

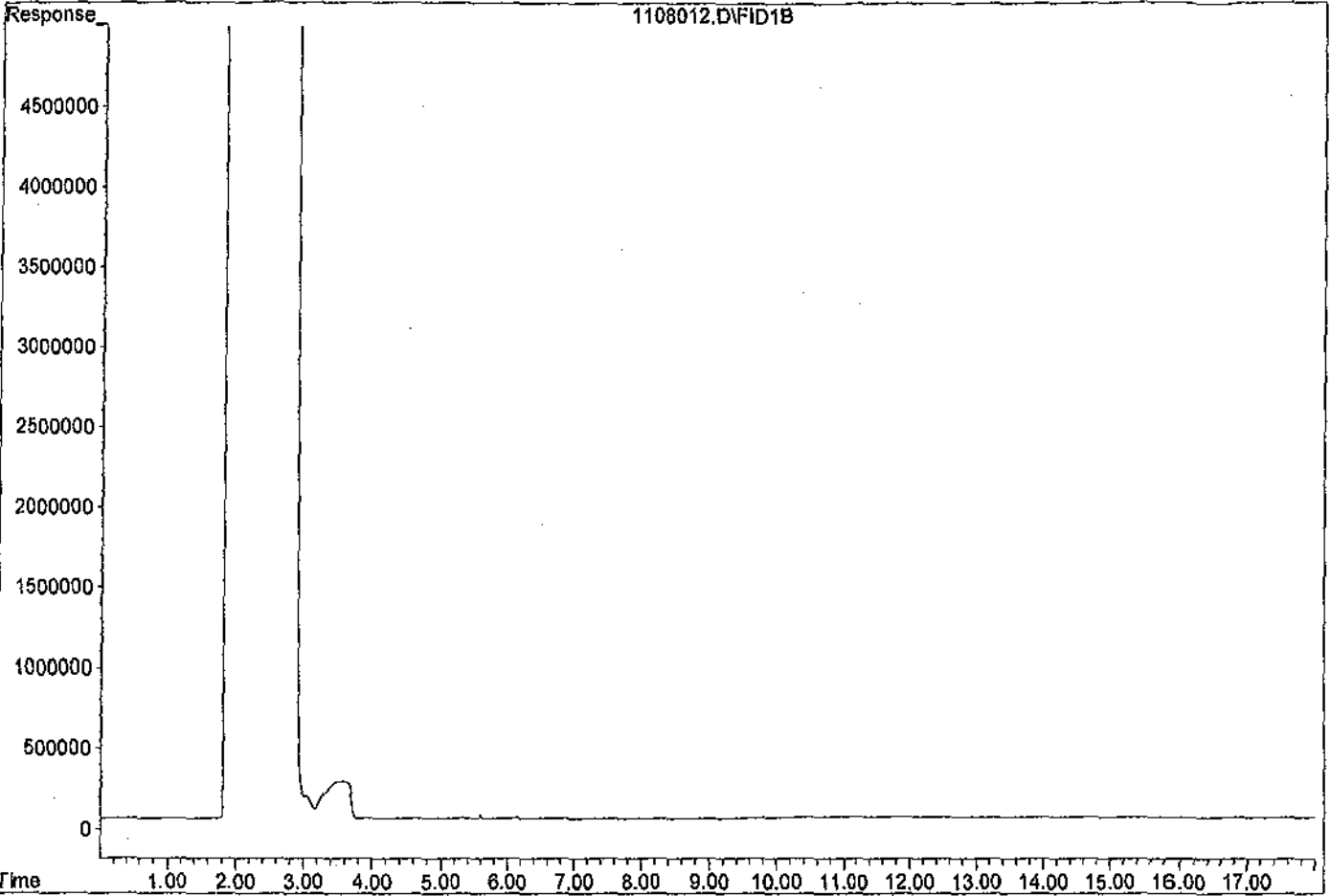
Target Compounds

2) HBTM Motor Oil (C18-C36)	12.24	19926419	239.903 ppb
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Quantitation Report

Data File: G:\APOLLO\DATA\111108\1108012.D

Sample : MOTOR OIL 100/1000



Diesel (C10-C28)

Motor Oil (C18-C38)

6.00 7.00 8.00 9.00 10.00 11.00 12.00

10.00 12.00 14.00 16.00

Data File : G:\APOLLO\DATA\111108\1108013.D Vial: 13
 Acq On : 11-8-11 18:59:47 Operator: LAC
 Sample : MOTOR OIL 400/1000 Inst : Apollo
 Misc : Mix(B) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 9:53 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 17 09:41:49 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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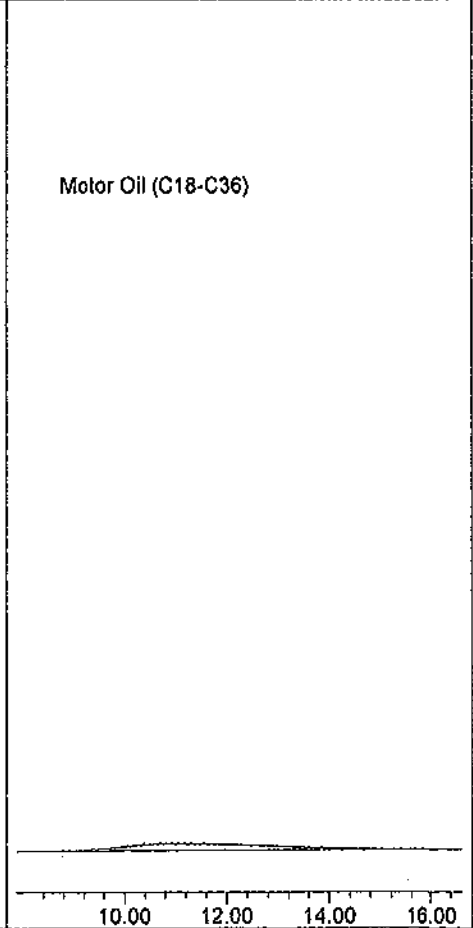
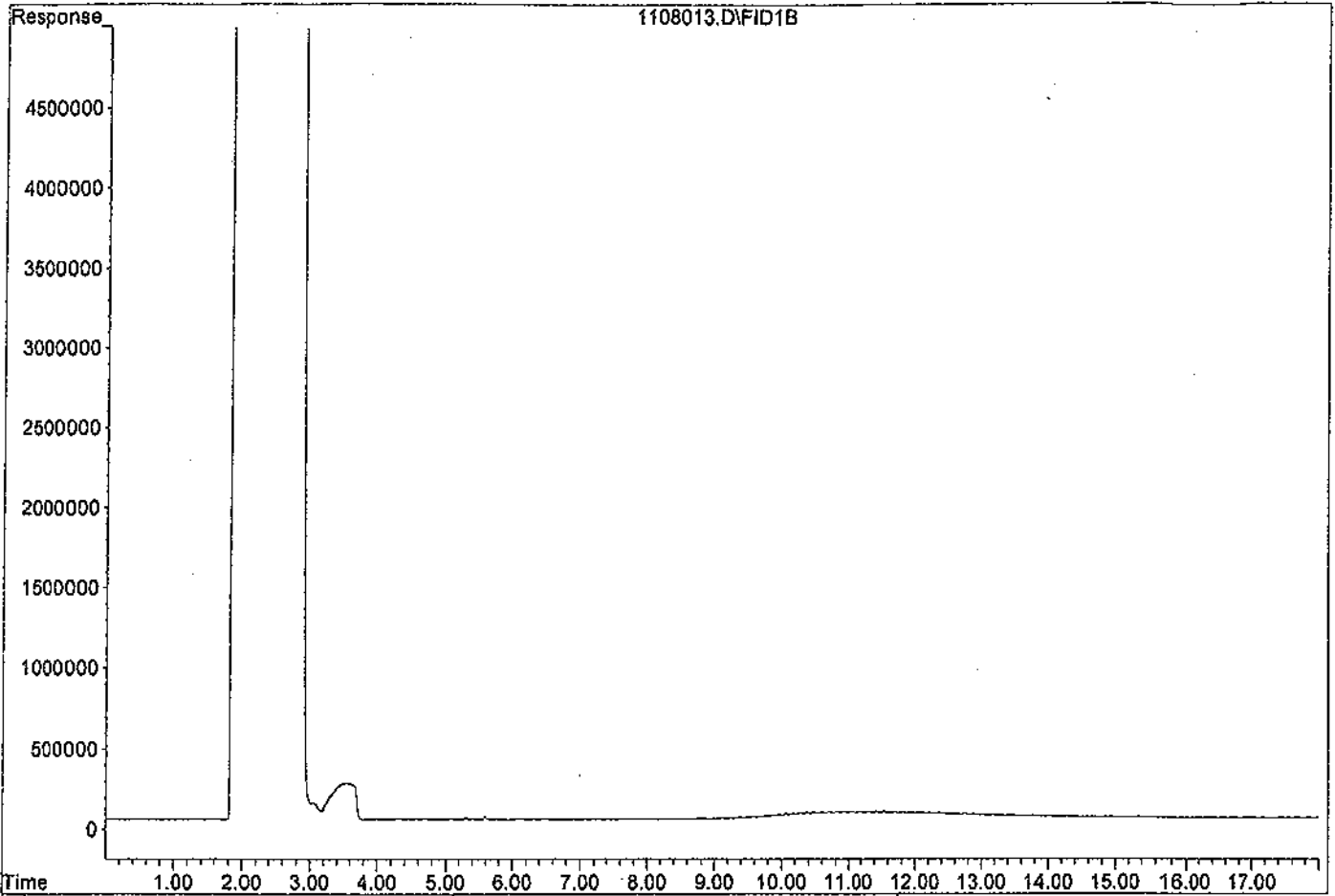
System Monitoring Compounds

Target Compounds

2) HBTM Motor Oil (C18-C36)	12.24	83351892	1003.512 ppb
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Data File: G:\APOLLO\DATA\111108\1108013.D

Sample : MOTOR OIL 400/1000



Data File : G:\APOLLO\DATA\111108\1108014.D Vial: 14
 Acq On : 11-8-11 19:23:20 Operator: LAC
 Sample : MOTOR OIL 600/1000 Inst : Apollo
 Misc : Mix(B) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 9:54 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 17 09:41:49 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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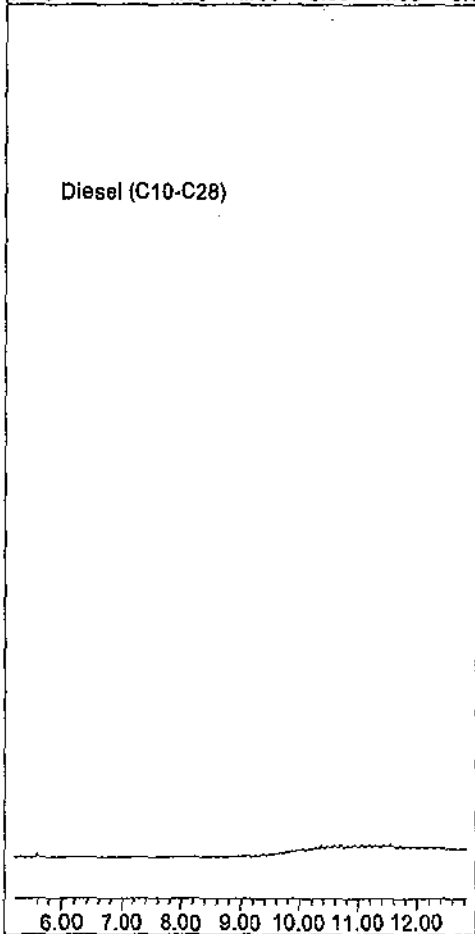
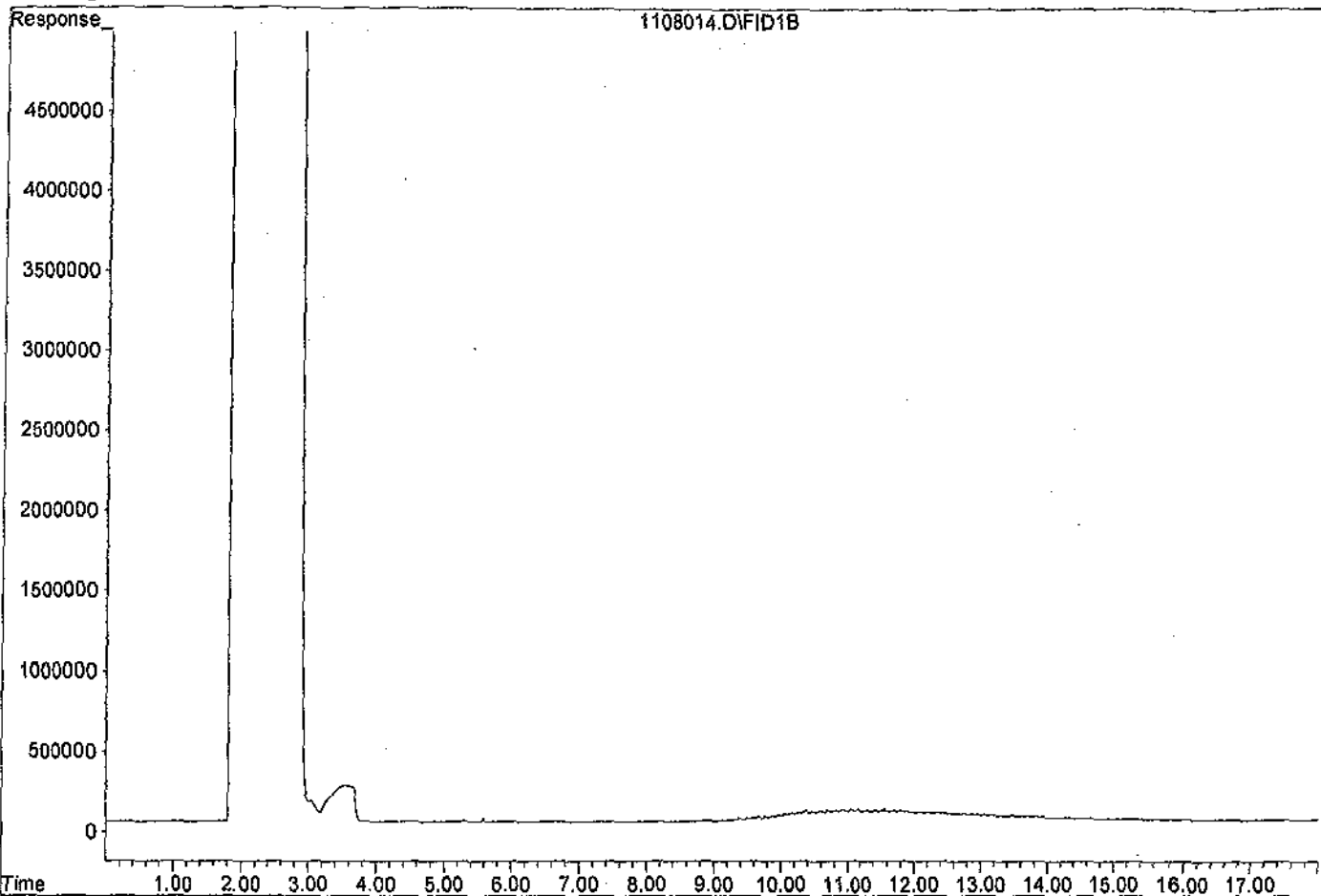
System Monitoring Compounds

Target Compounds

2) HBTM Motor Oil (C18-C36)	12.24	133423372	1606.346 ppb
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Data File: G:\APOLLO\DATA\111108\1108014.D

Sample : MOTOR OIL 600/1000



Data File : G:\APOLLO\DATA\111108\1108015.D Vial: 15
 Acq On : 11-8-11 19:46:53 Operator: LAC
 Sample : MOTOR OIL 800/1000 Inst : Apollo
 Misc : Mix(B) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 9:54 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 17 09:41:49 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

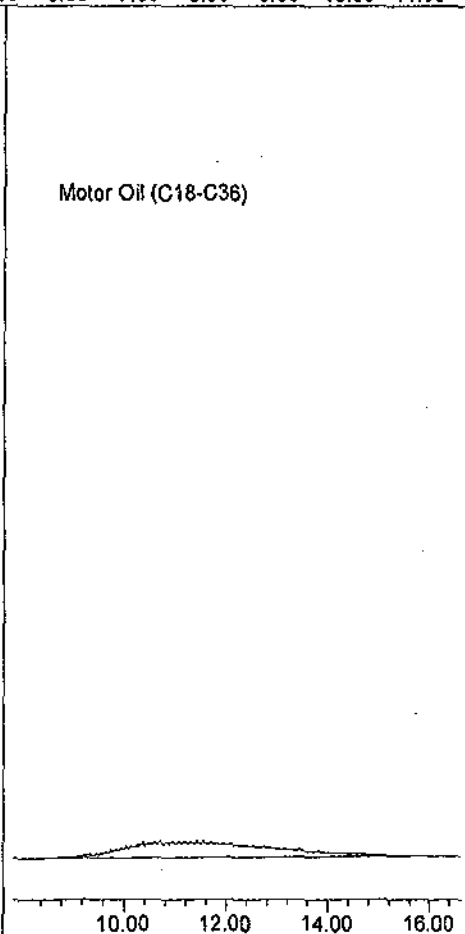
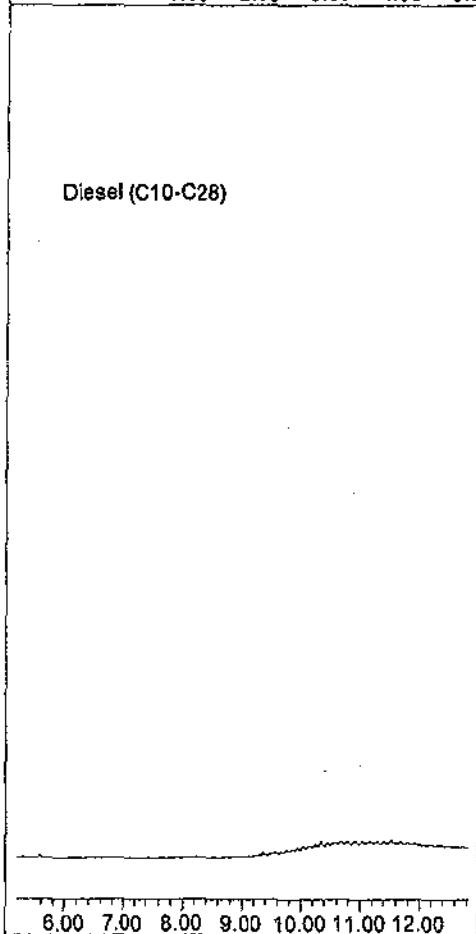
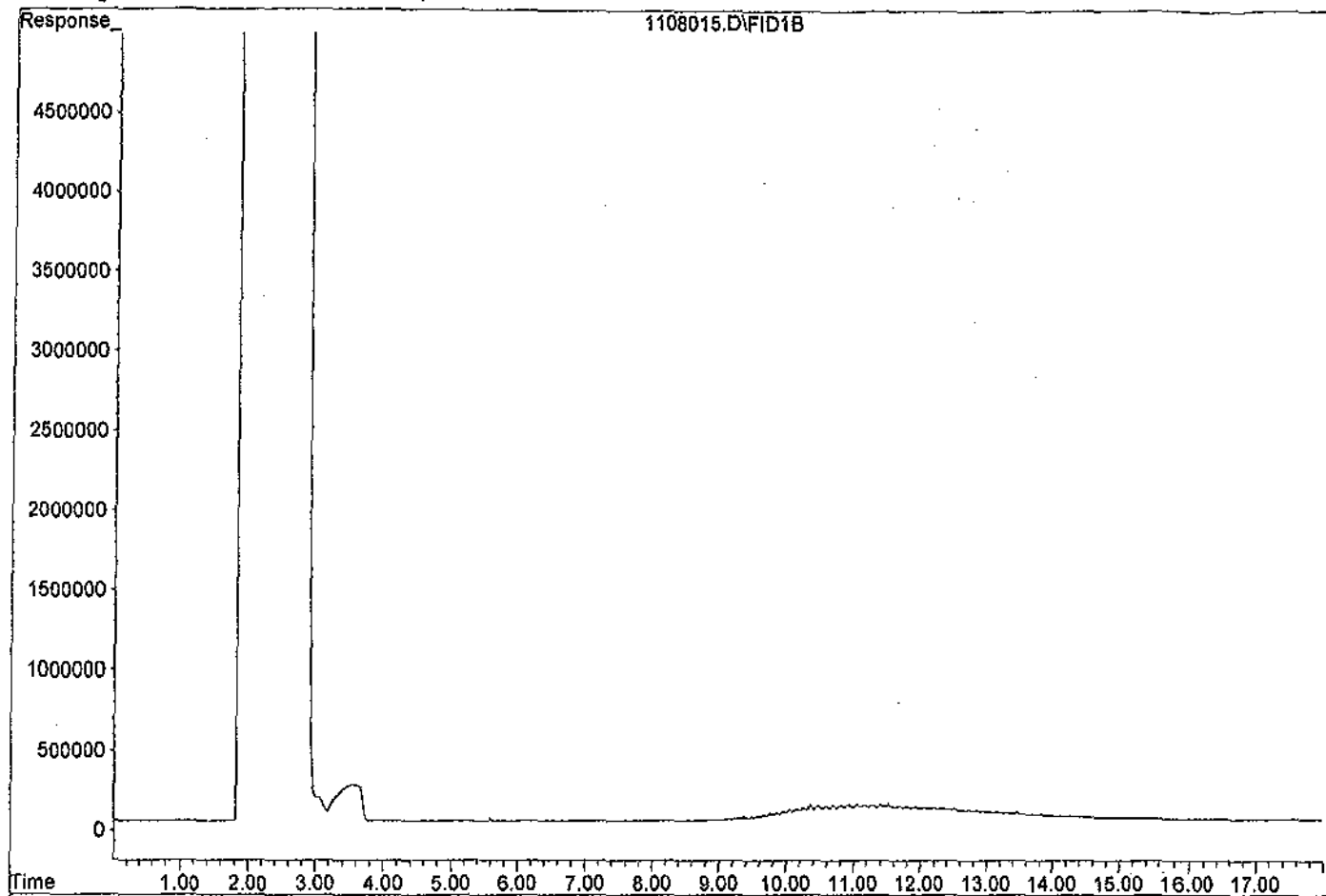
Target Compounds

2) HBTM Motor Oil (C18-C36)	12.24	185280557	2230.679 ppb
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Quantitation Report

Data File: G:\APOLLO\DATA\111108\1108015.D

Sample : MOTOR OIL 800/1000



Data File : G:\APOLLO\DATA\111108\1108016.D Vial: 16
 Acq On : 11-8-11 20:10:21 Operator: LAC
 Sample : MOTOR OIL 1000/1000 Inst : Apollo
 Misc : Mix(B) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 9:54 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 17 09:41:49 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

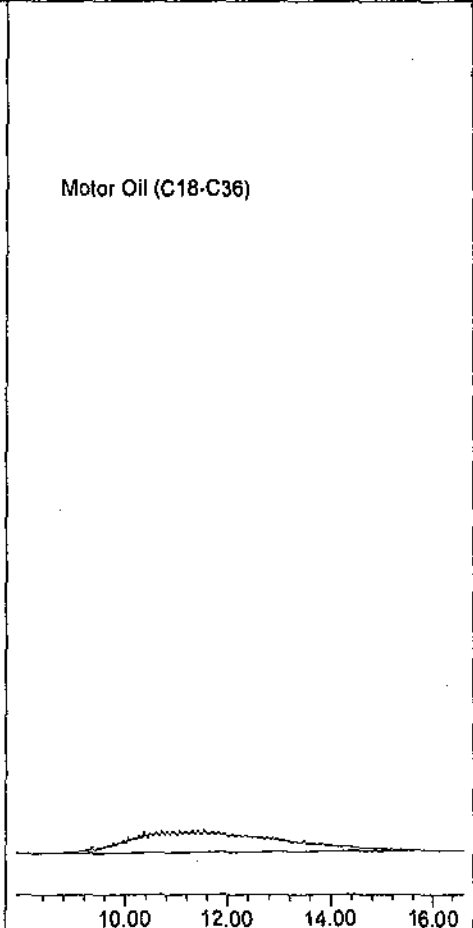
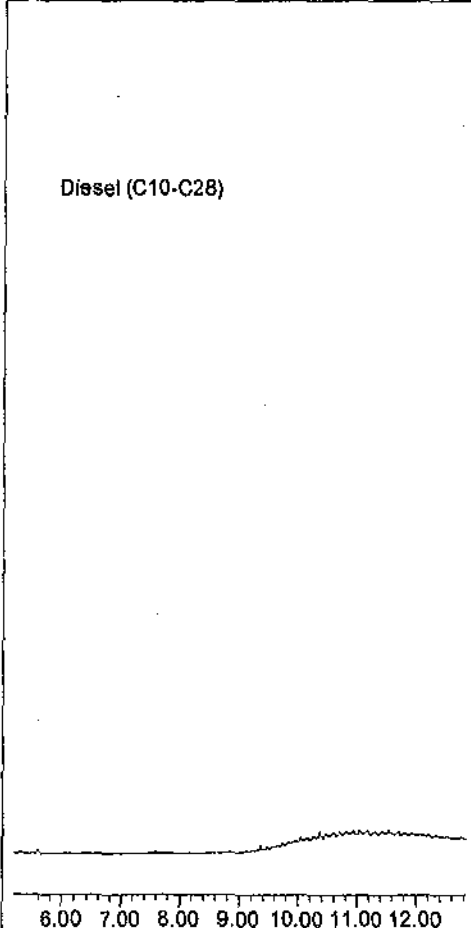
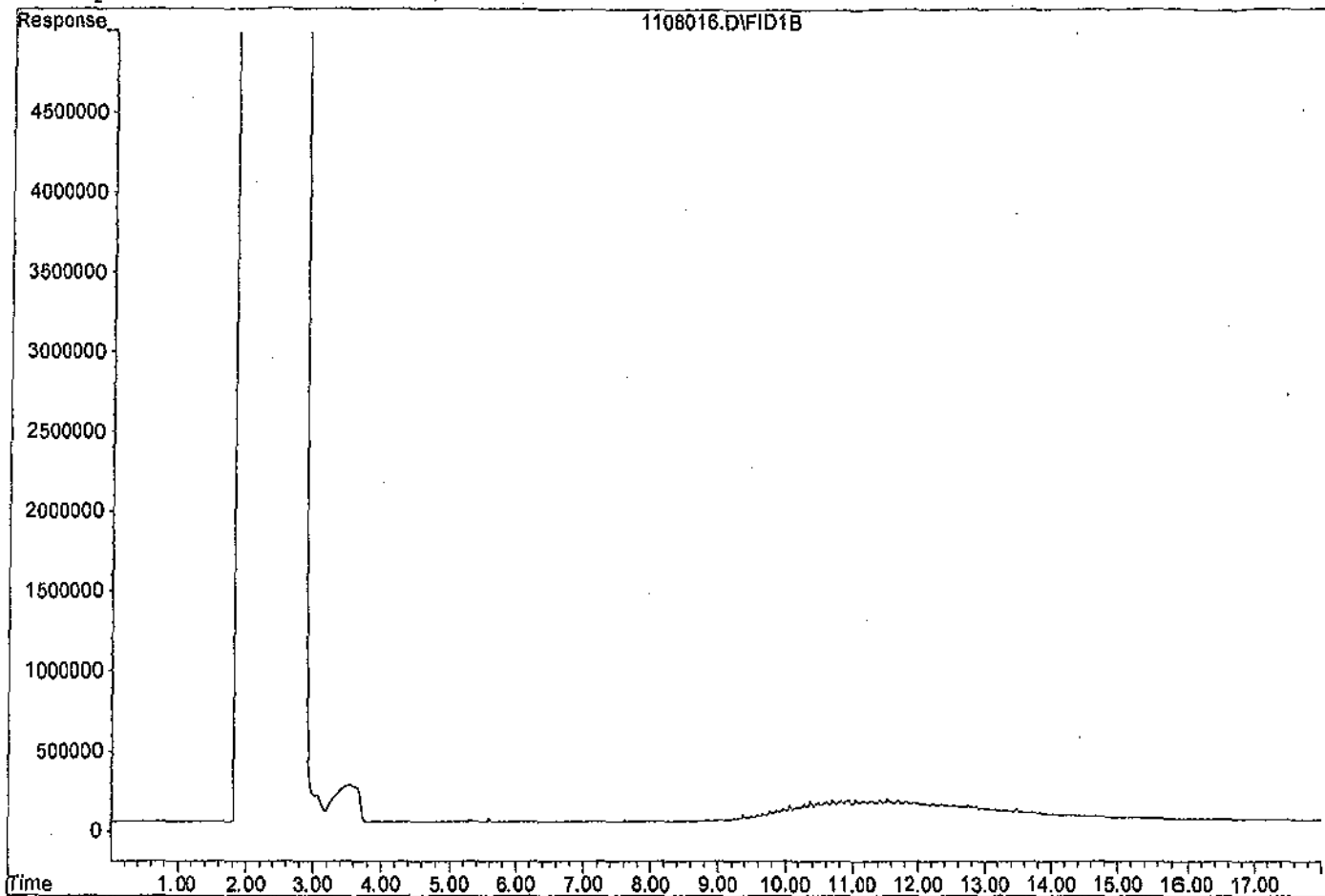
Target Compounds

2) HBTM Motor Oil (C18-C36)	12.24	250746792	3018.857 ppb
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Quantitation Report

Data File: G:\APOLLO\DATA\111108\1108016.D

Sample : MOTOR OIL 1000/1000



Data File : G:\APOLLO\DATA\111108\1108069.D Vial: 69
 Acq On : 11-9-11 17:18:58 Operator: LAC
 Sample : DIESEL 10/1000 11/8/11 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 9:53 2011 Quant Results File: TPH8S15.RES

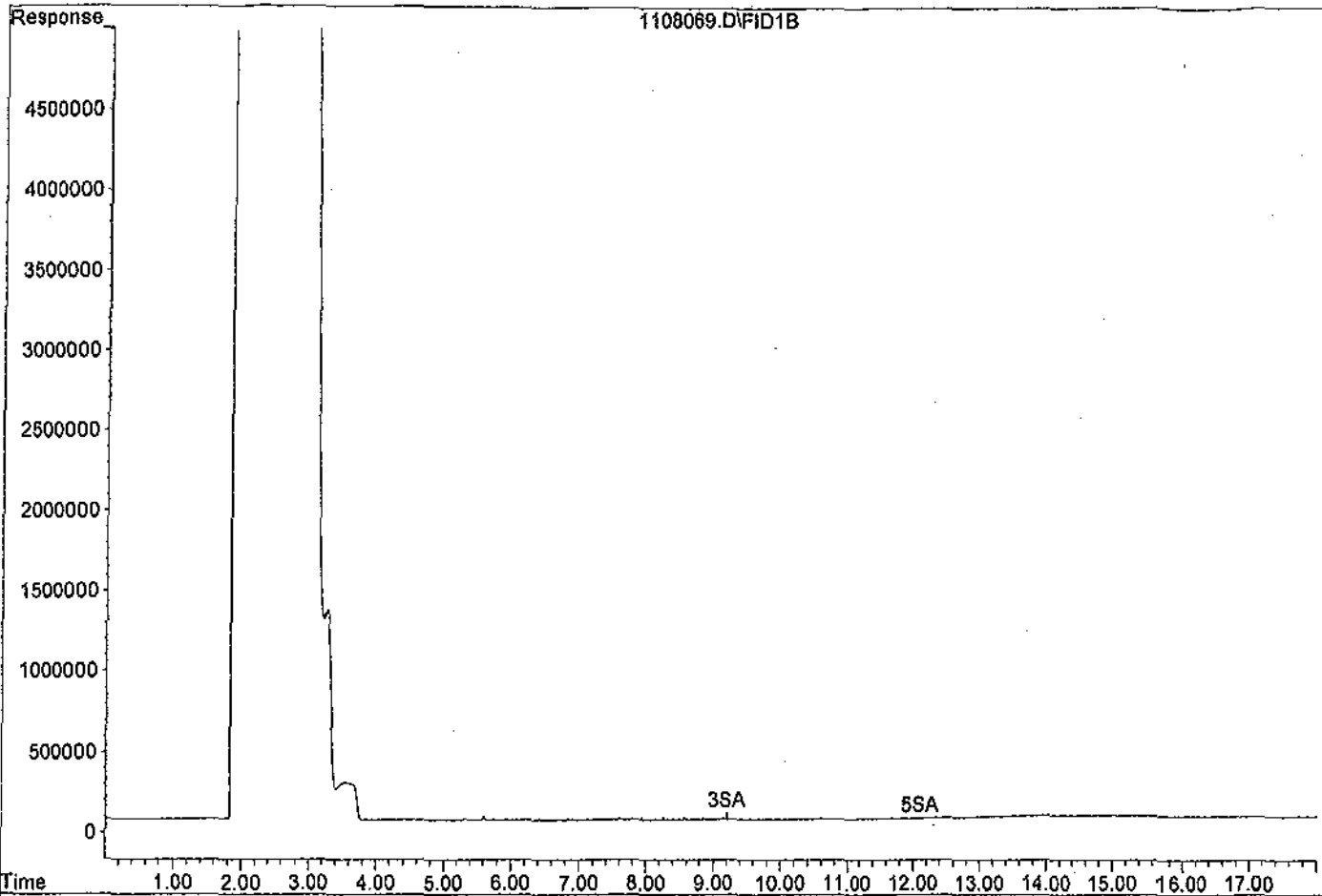
Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 17 09:41:49 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.20	302444	0.297 ppb
Surrogate Spike 30.000		Recovery =	0.99%
5) SA Not Used2(S)	12.10	625179	2.122 ppb
Surrogate Spike 30.000		Recovery =	7.07%
Target Compounds			
1) HATM Diesel (C10-C28)	9.01	12262633	1055.198 ppb

Data File: G:\APOLLO\DATA\111108\1108069.D

Sample : DIESEL 10/1000 11/8/11



Diesel (C10-C28)

Motor Oil (C18-C36)

Data File : G:\APOLLO\DATA\111115\1115021.D Vial: 21
 Acq On : 11-15-11 18:21:35 Operator: LAC
 Sample : THC SURR 10/1000 11/15/11 Inst : Apollo
 Misc : Mix(C) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 14:58 2011 Quant Results File: TPH8S15.RES

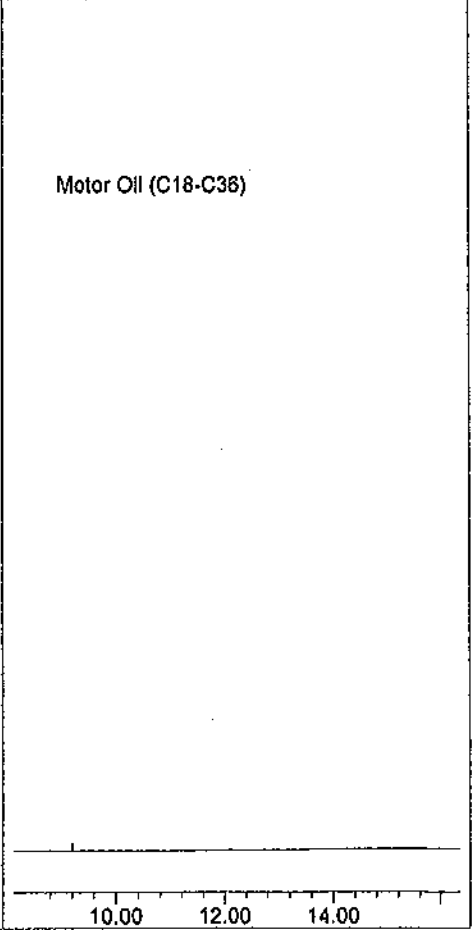
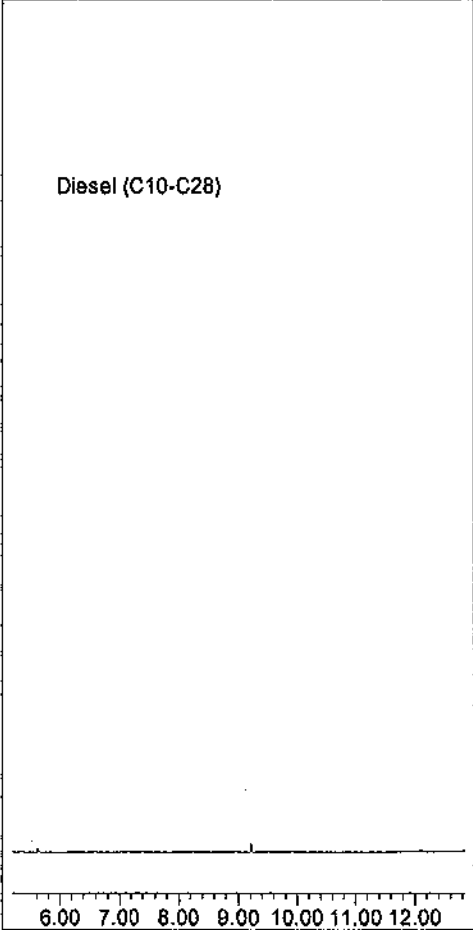
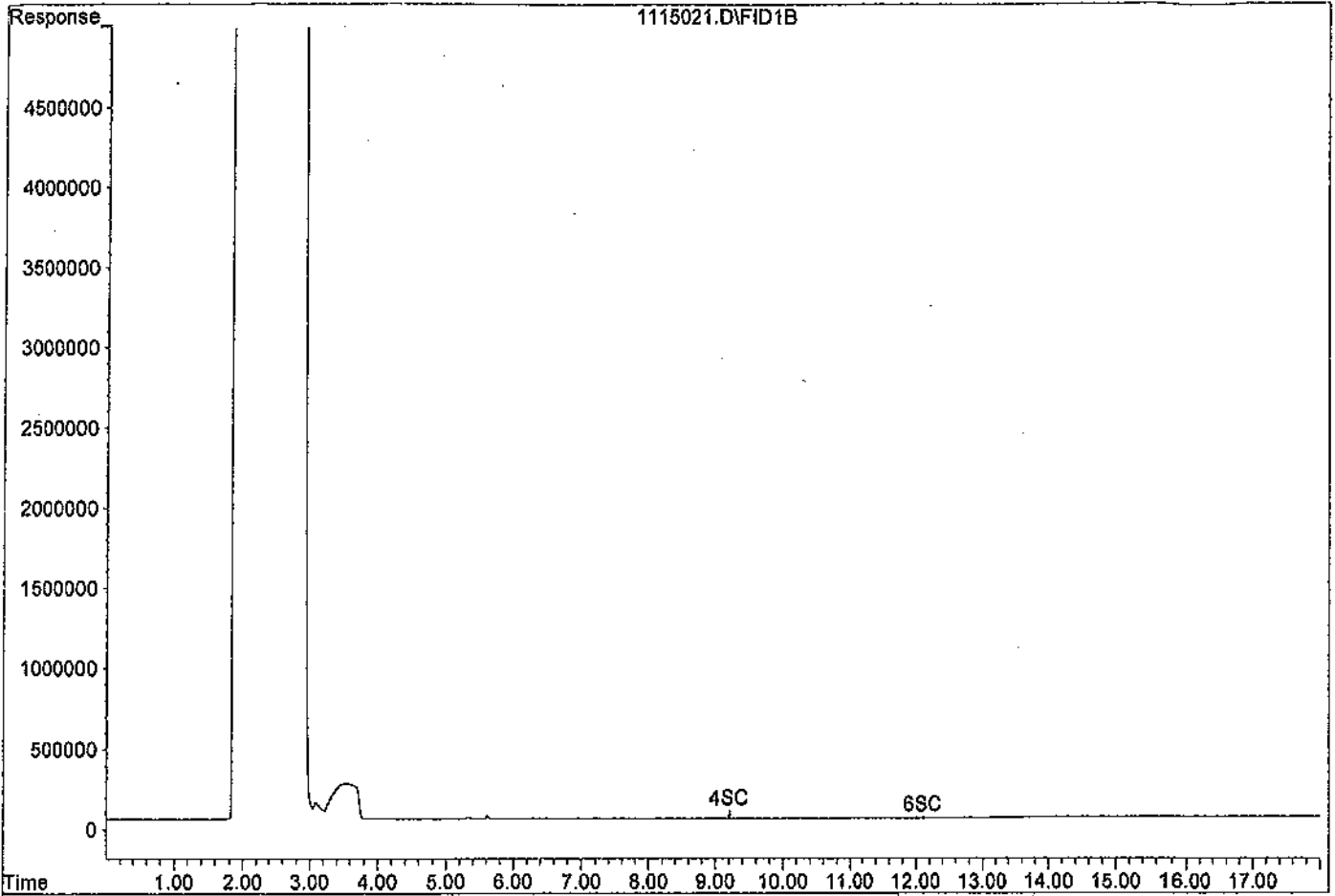
Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 17 09:41:49 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.21	356915	0.559 ppb
Surrogate Spike 30.000		Recovery =	1.86%
6) SC Octacosane(S)	12.10	279297	1.196 ppb
Surrogate Spike 30.000		Recovery =	3.99%
Target Compounds			

Data File: G:\APOLLO\DATA\111115\1115021.D

Sample : THC SURR 10/1000 11/15/11



Data File : G:\APOLLO\DATA\111115\1115022.D Vial: 22
 Acq On : 11-15-11 18:45:31 Operator: LAC
 Sample : THC SURR 100/1000 Inst : Apollo
 Misc : Mix(C) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 14:58 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 17 09:41:49 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

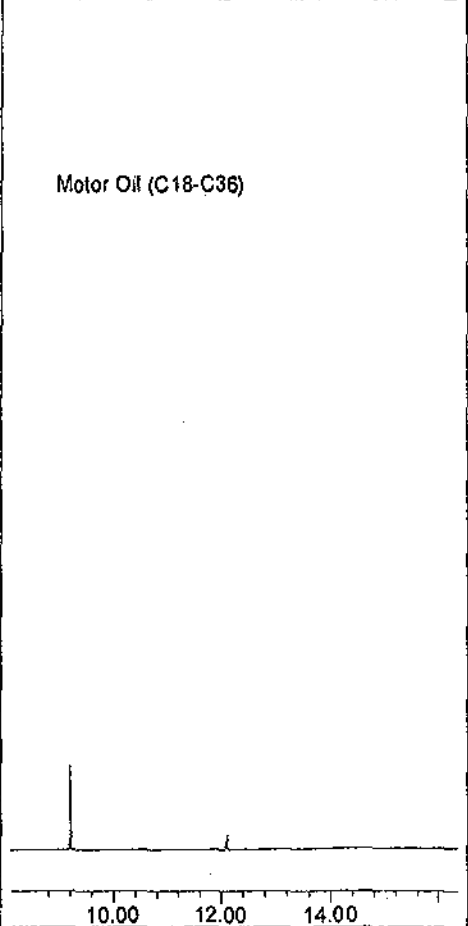
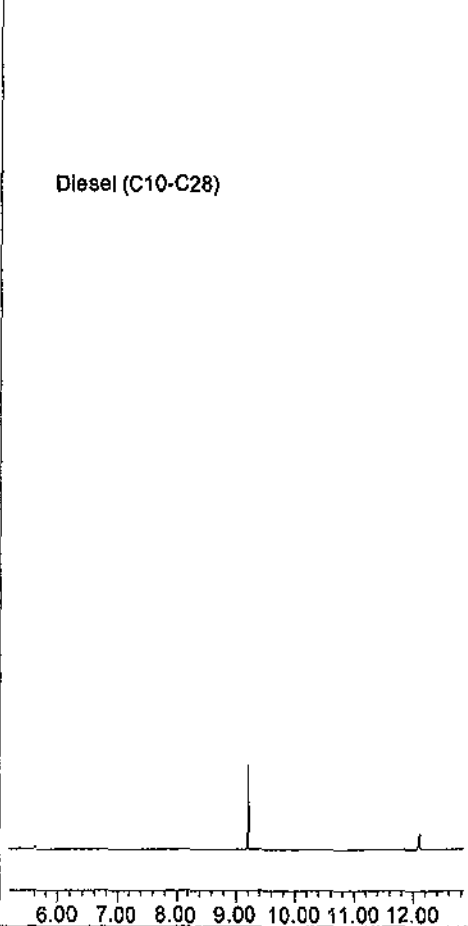
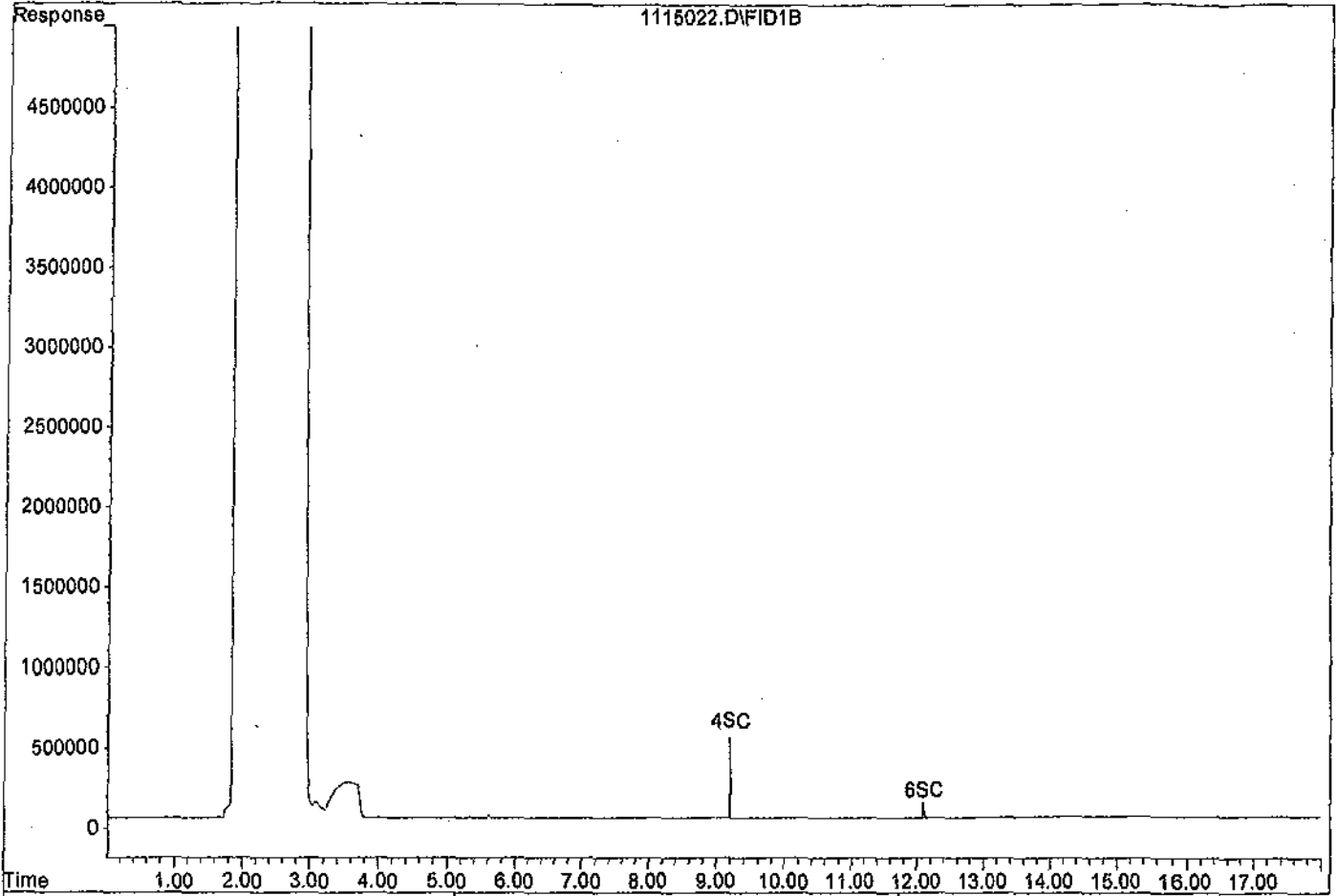
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.21	3207972	5.028 ppb
Surrogate Spike 30.000		Recovery =	16.76%
6) SC Octacosane(S)	12.11	1214451	5.201 ppb
Surrogate Spike 30.000		Recovery =	17.34%

Target Compounds

Data File: G:\APOLLO\DATA\111115\1115022.D

Sample : THC SURR 100/1000



Data File : G:\APOLLO\DATA\111115\1115023.D Vial: 23
 Acq On : 11-15-11 19:09:25 Operator: LAC
 Sample : THC SURR 400/1000 Inst : Apollo
 Misc : Mix(C) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 14:58 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 17 09:41:49 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

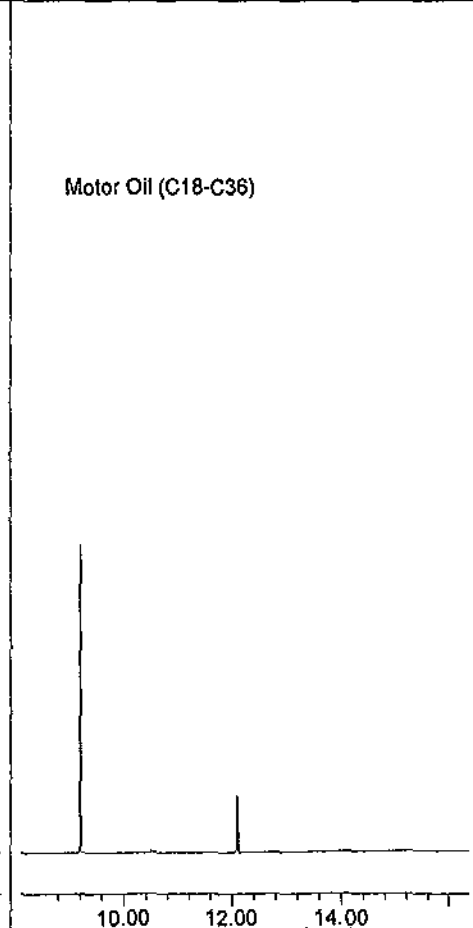
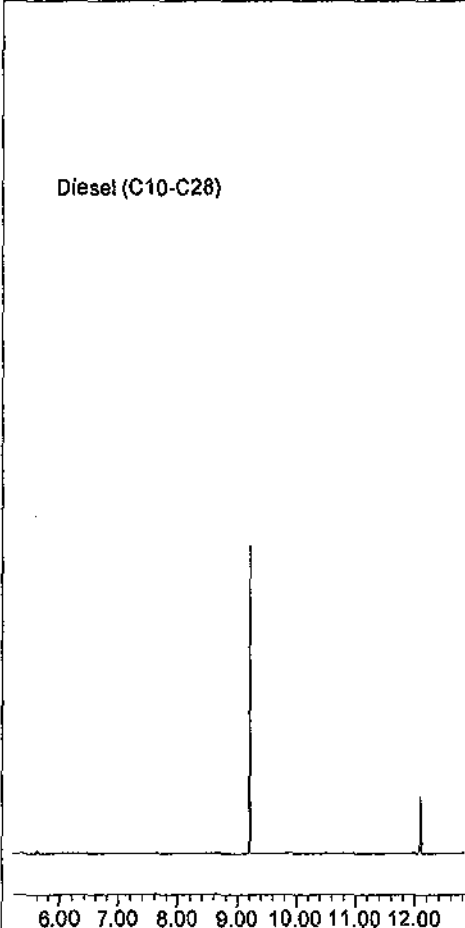
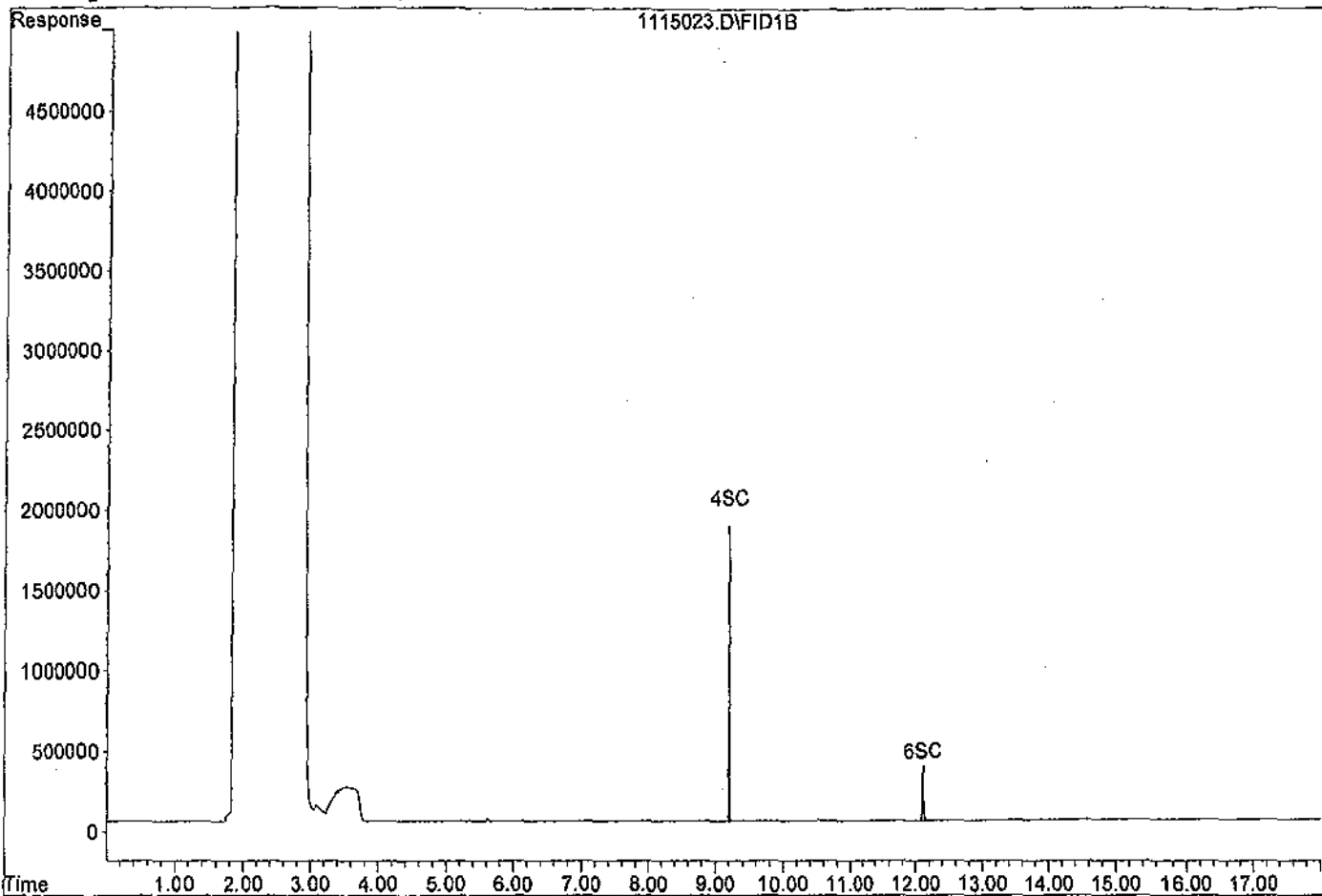
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.21	12023229	18.845 ppb
Surrogate Spike 30.000		Recovery =	62.82%
6) SC Octacosane(S)	12.11	4606231	19.728 ppb
Surrogate Spike 30.000		Recovery =	65.76%

Target Compounds

Data File: G:\APOLLO\DATA\111115\1115023.D

Sample : THC SURR 400/1000



Data File : G:\APOLLO\DATA\111115\1115024.D Vial: 24
 Acq On : 11-15-11 19:33:17 Operator: LAC
 Sample : THC SURR 600/1000 Inst : Apollo
 Misc : Mix(C) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 14:58 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 17 09:41:49 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

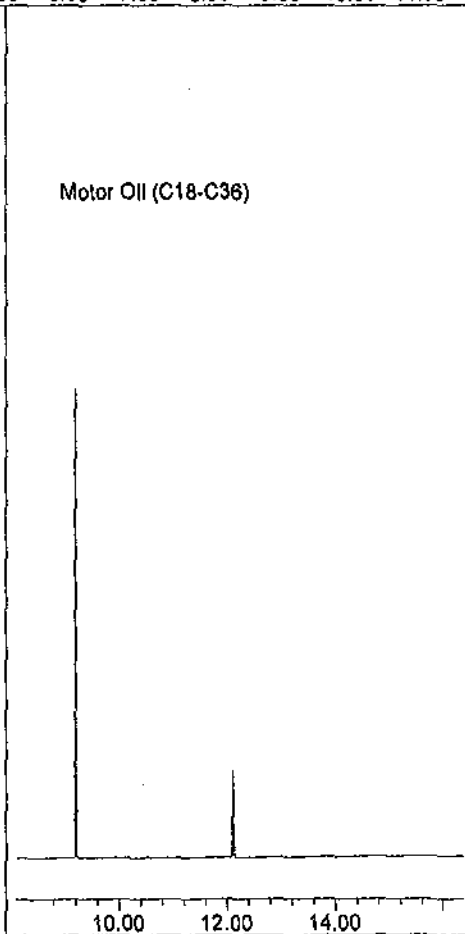
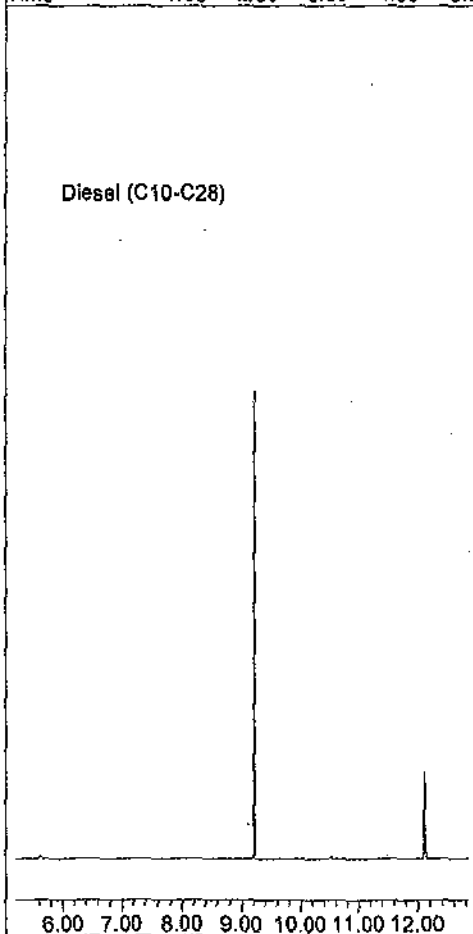
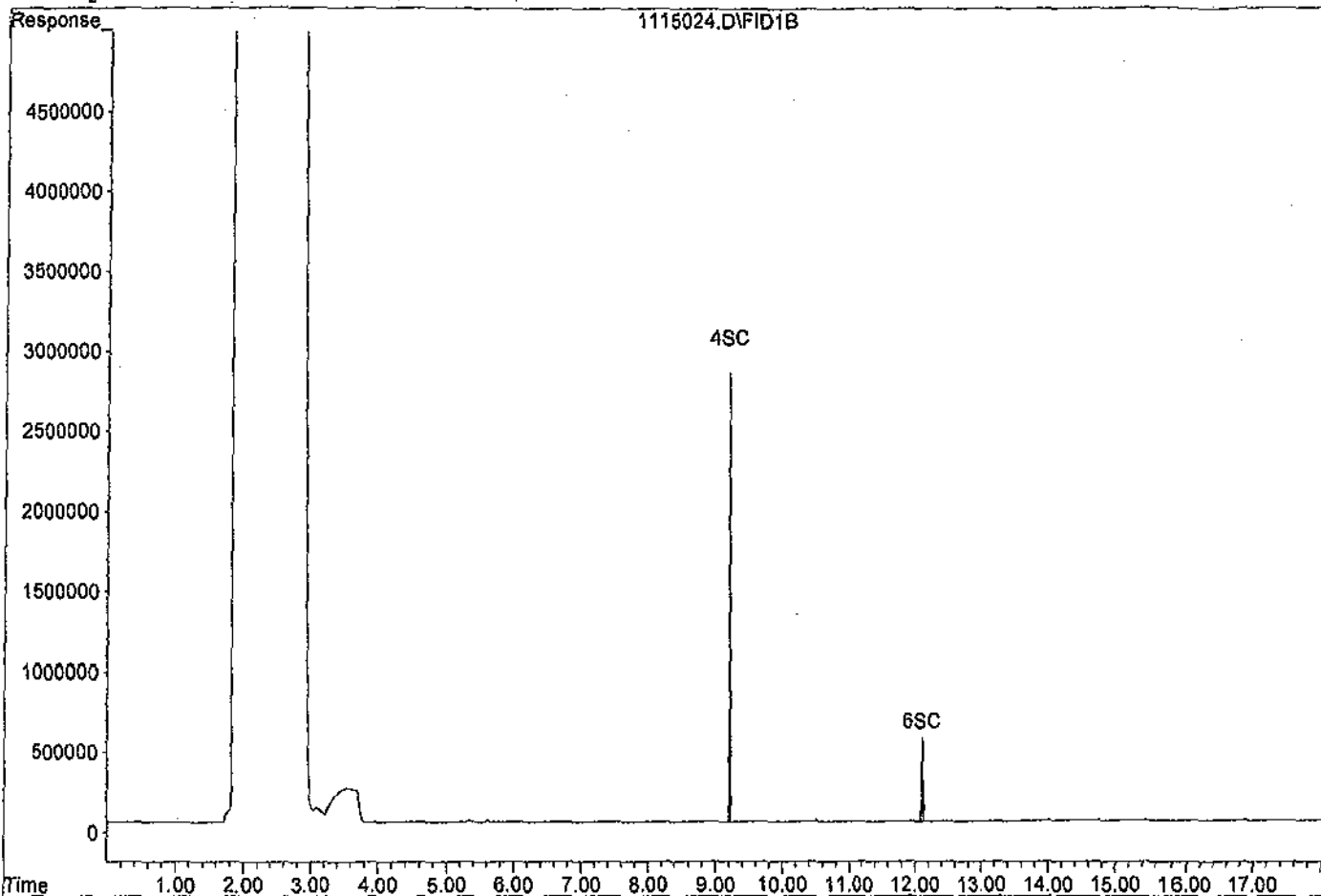
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.21	18244401	28.595 ppb
Surrogate Spike 30.000		Recovery =	95.32%
6) SC Octacosane(S)	12.11	6794679	29.101 ppb
Surrogate Spike 30.000		Recovery =	97.00%
Target Compounds			

Quantitation Report

Data File: G:\APOLLO\DATA\111115\1115024.D

Sample : THC SURR 600/1000



Data File : G:\APOLLO\DATA\111115\1115025.D Vial: 25
Acq On : 11-15-11 19:57:06 Operator: LAC
Sample : THC SURR 800/1000 Inst : Apollo
Misc : Mix(C) Multiplr: 1.00
IntFile : events.e
Quant Time: Nov 16 14:58 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
Title : Diesel
Last Update : Thu Nov 17 09:41:49 2011
Response via : Multiple Level Calibration

Volume Inj. : 2UL
Signal Phase : DB-5
Signal Info : FID02A

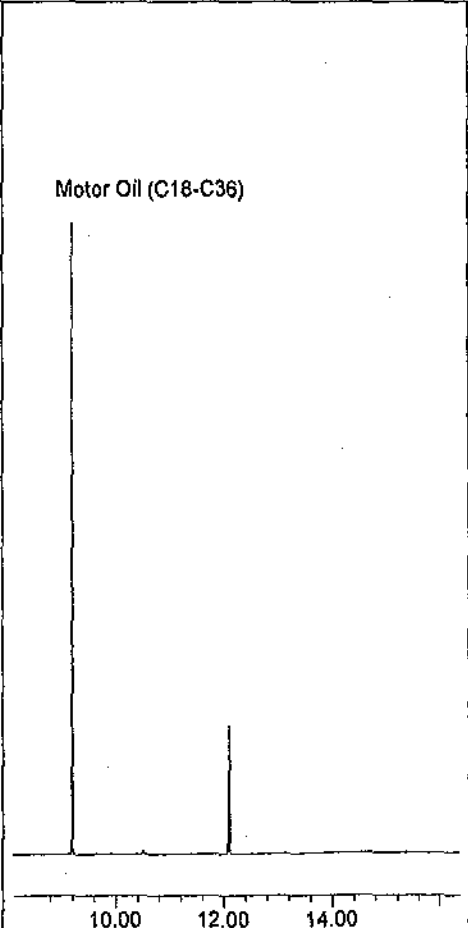
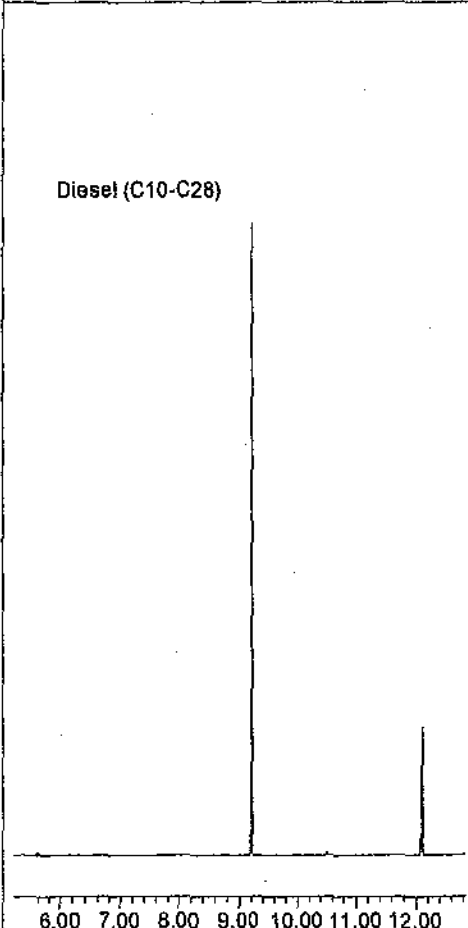
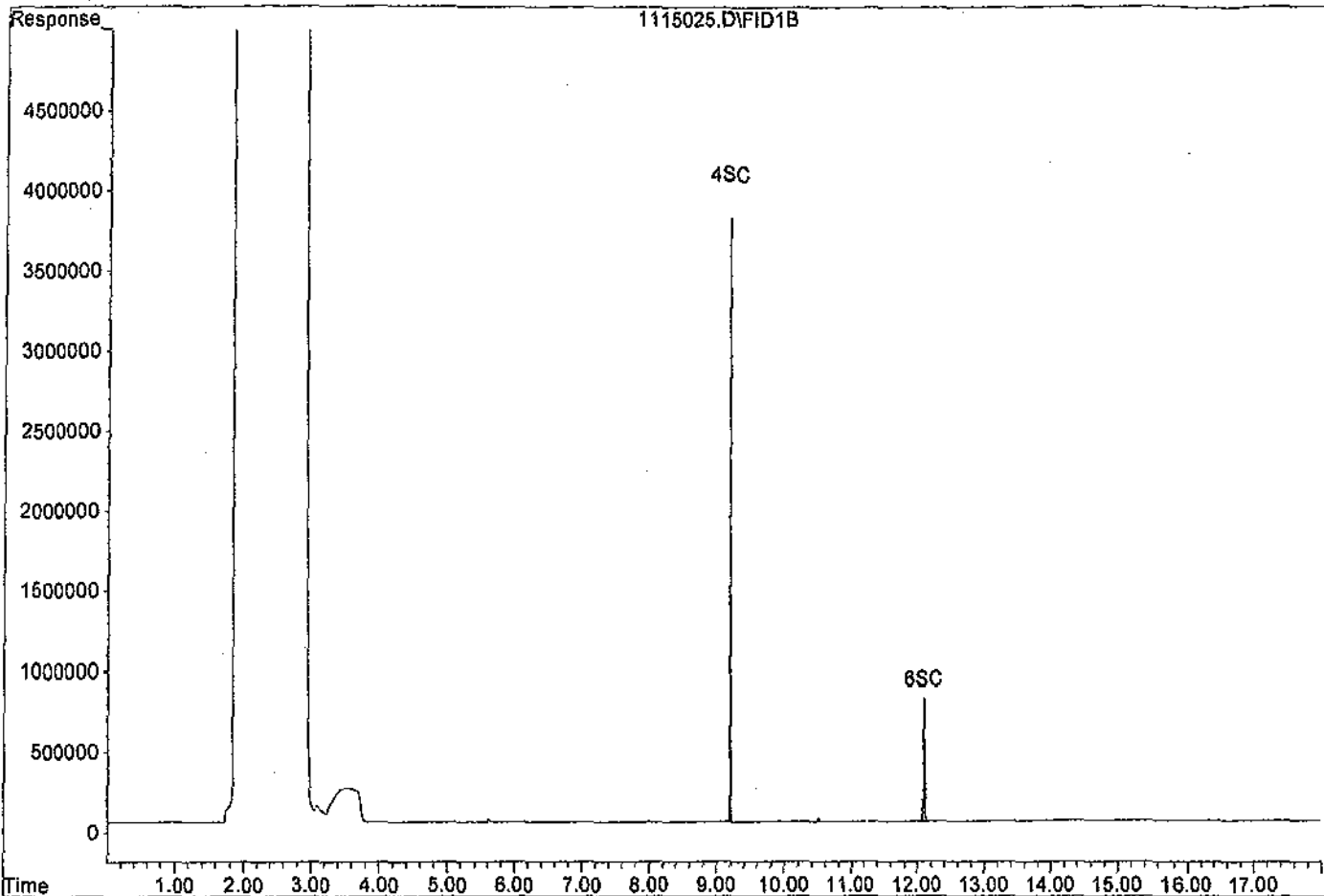
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.21	25946623	40.667 ppb
Surrogate Spike 30.000		Recovery =	135.56%
6) SC Octacosane(S)	12.11	10118734	43.337 ppb
Surrogate Spike 30.000		Recovery =	144.46%

Target Compounds

Data File: G:\APOLLO\DATA\111115\1115025.D

Sample : THC SURR 800/1000



Data File : G:\APOLLO\DATA\111115\1115026.D Vial: 26
 Acq On : 11-15-11 20:20:52 Operator: LAC
 Sample : THC SURR 1000/1000 Inst : Apollo
 Misc : Mix(C) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 14:58 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 17 09:41:49 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

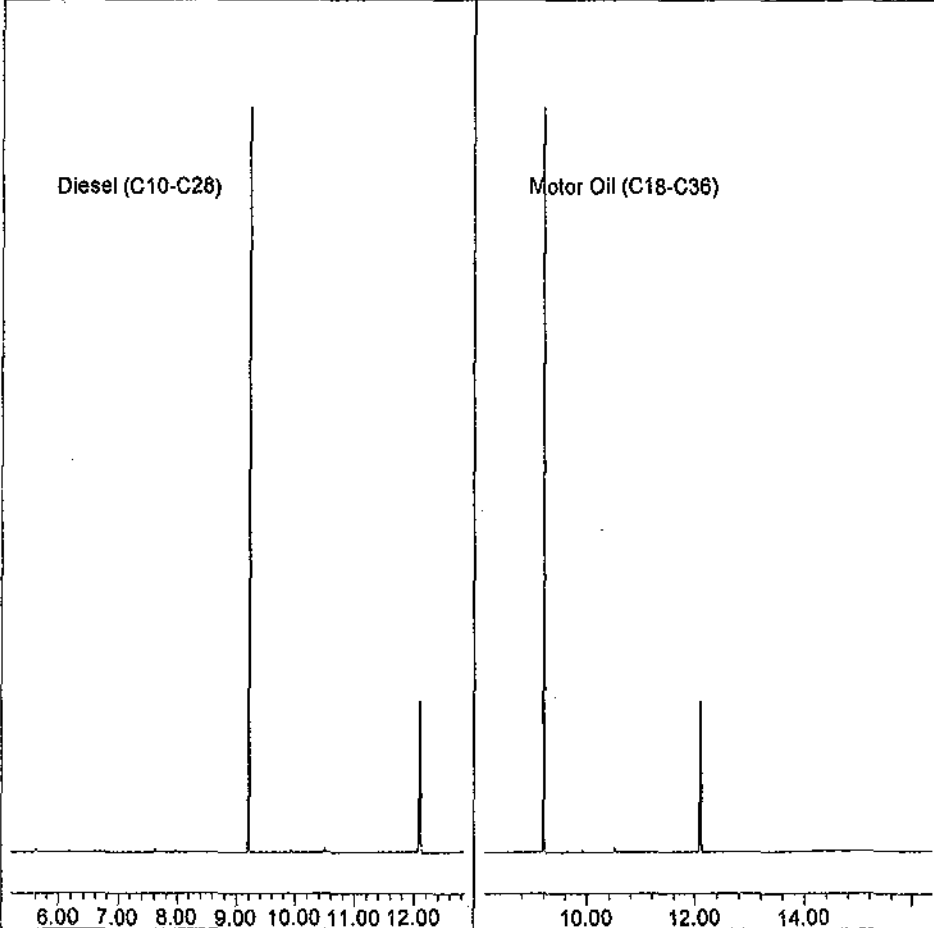
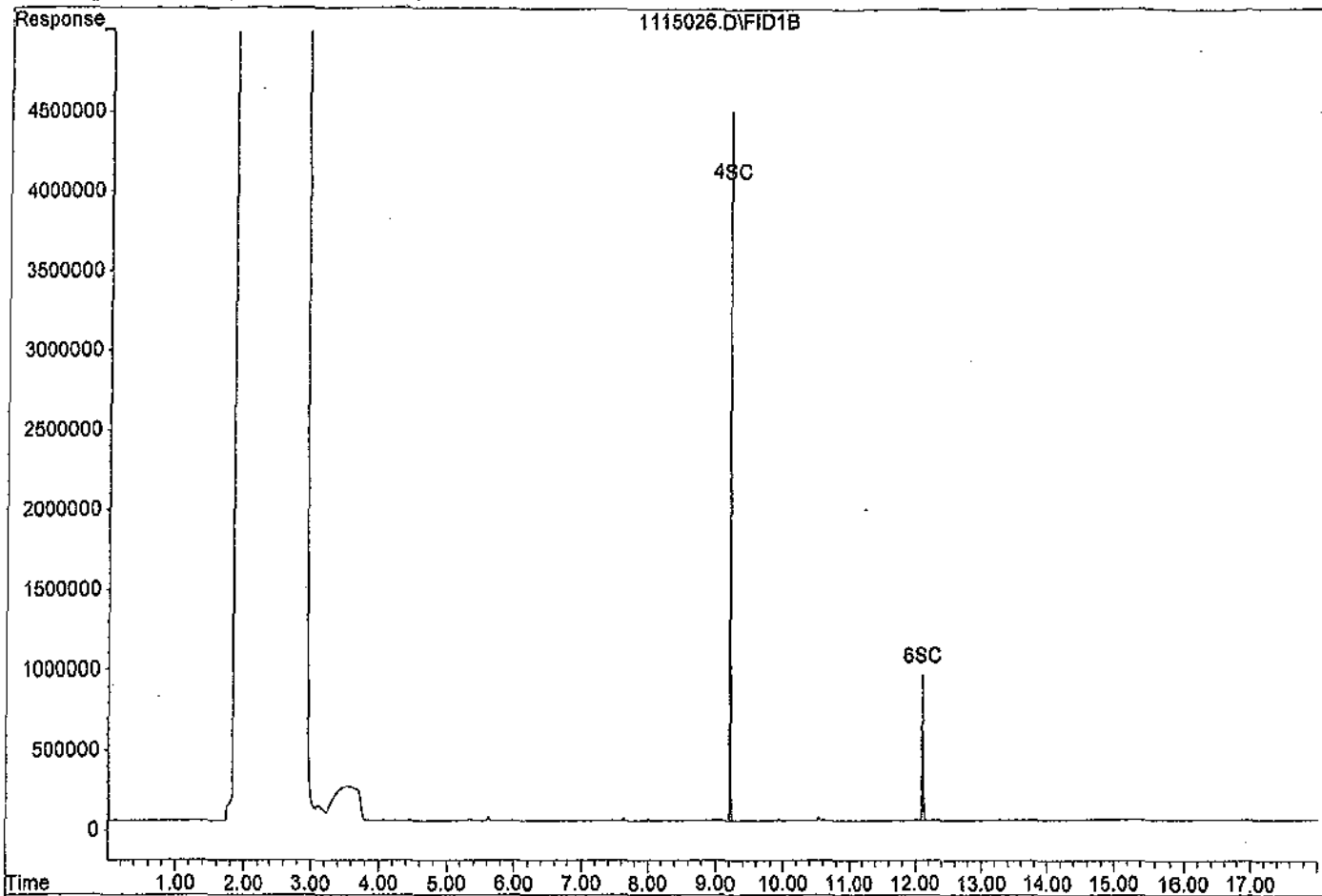
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.21	30736073	48.174 ppb
Surrogate Spike 30.000		Recovery =	160.58%
6) SC Octacosane(S)	12.11	12029686	51.522 ppb
Surrogate Spike 30.000		Recovery =	171.74%

Target Compounds

Data File: G:\APOLLO\DATA\111115\1115026.D

Sample : THC SURR 1000/1000



Data File : G:\APOLLO\DATA\111108\1108069.D Vial: 69
 Acq On : 11-9-11 17:18:58 Operator: LAC
 Sample : DIESEL 10/1000 11/8/11 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 9:53 2011 Quant Results File: TPH8S15.RES

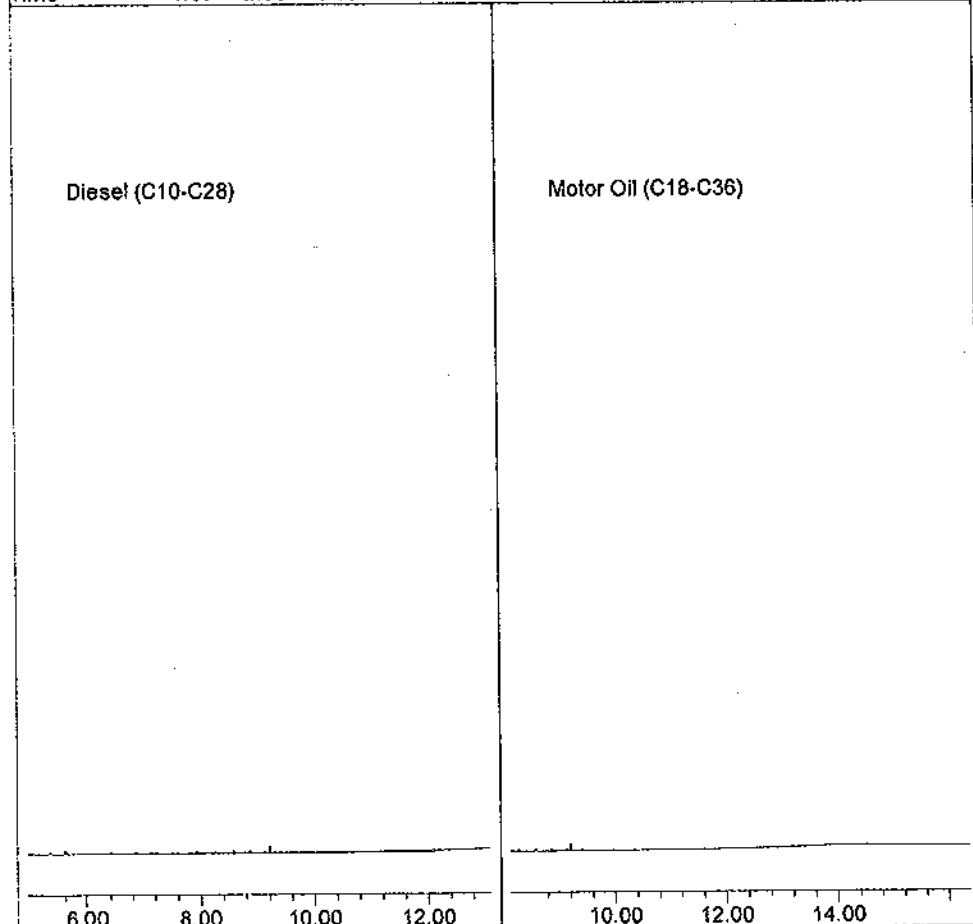
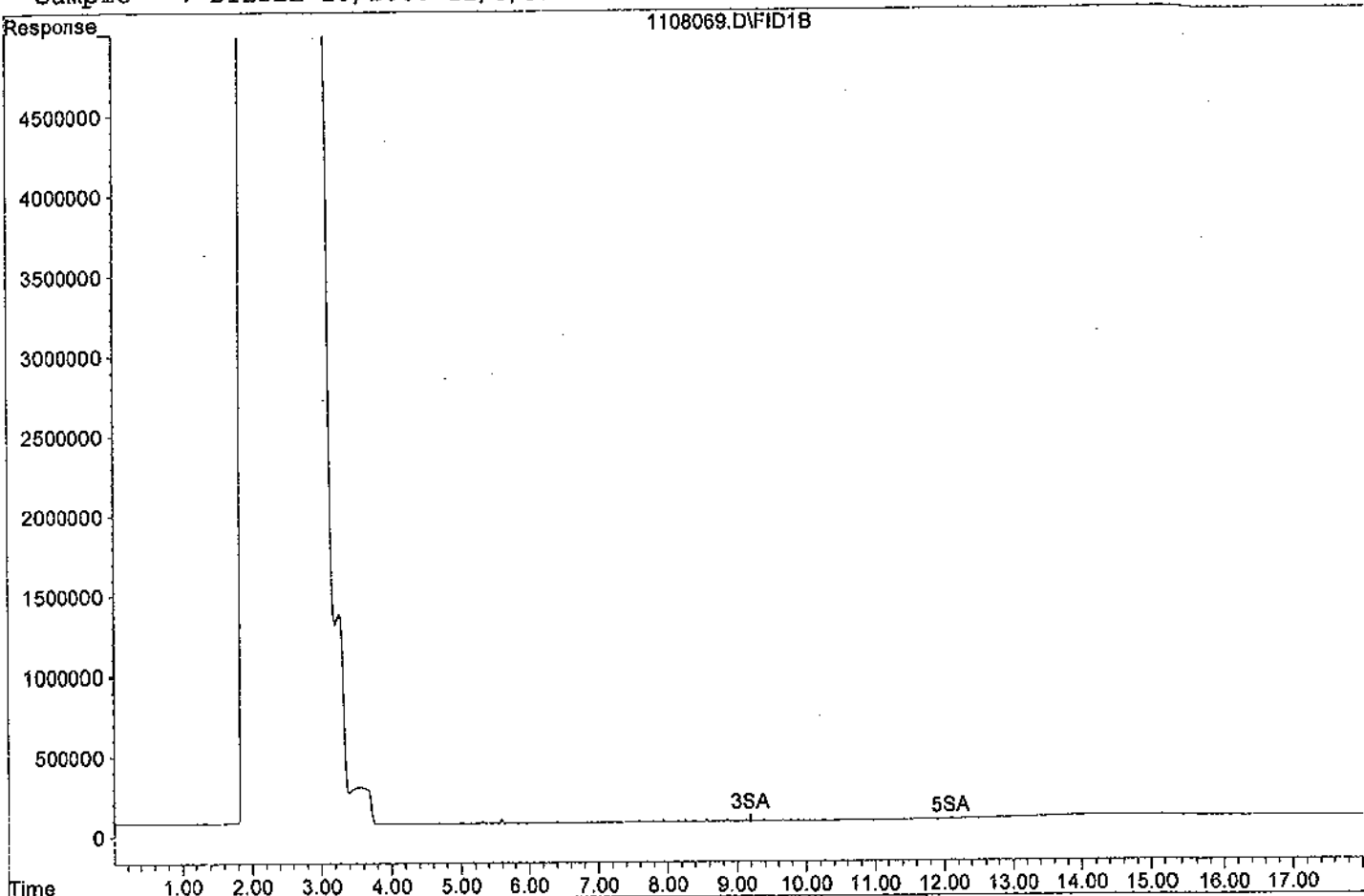
Method : G:\APOLLO\DATA\111108\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Wed Nov 16 09:55:03 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
3) SA Not Used(S)	9.20	302444	0.297 ppb
Surrogate Spike 30.000		Recovery =	0.99%
5) SA Not Used2(S)	12.10	625179	2.122 ppb
Surrogate Spike 30.000		Recovery =	7.07%
Target Compounds			
1) HATM Diesel (C10-C28)	9.01	12262633	1055.198 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\111108\1108069.D
Sample : DIESEL 10/1000 11/8/11



TPH Extractables
TPH8S15

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: 66116
Date Analyzed: 11/09/11
Instrument: Apollo
Initial Cal. Date: 11/08/11
Data File: 1108070.D

	Compound	MEAN	CCRF	%D	%Drift
1	HATM Diesel (C10-C28)	305473	234327	23	HATML 4.9
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					

Average

23.0

Data File : G:\APOLLO\DATA\111108\1108070.D Vial: 70
 Acq On : 11-9-11 17:42:38 Operator: LAC
 Sample : DIESEL 400 2ND SRC 11/8/11 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 16 9:52 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111115\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 17 09:41:49 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

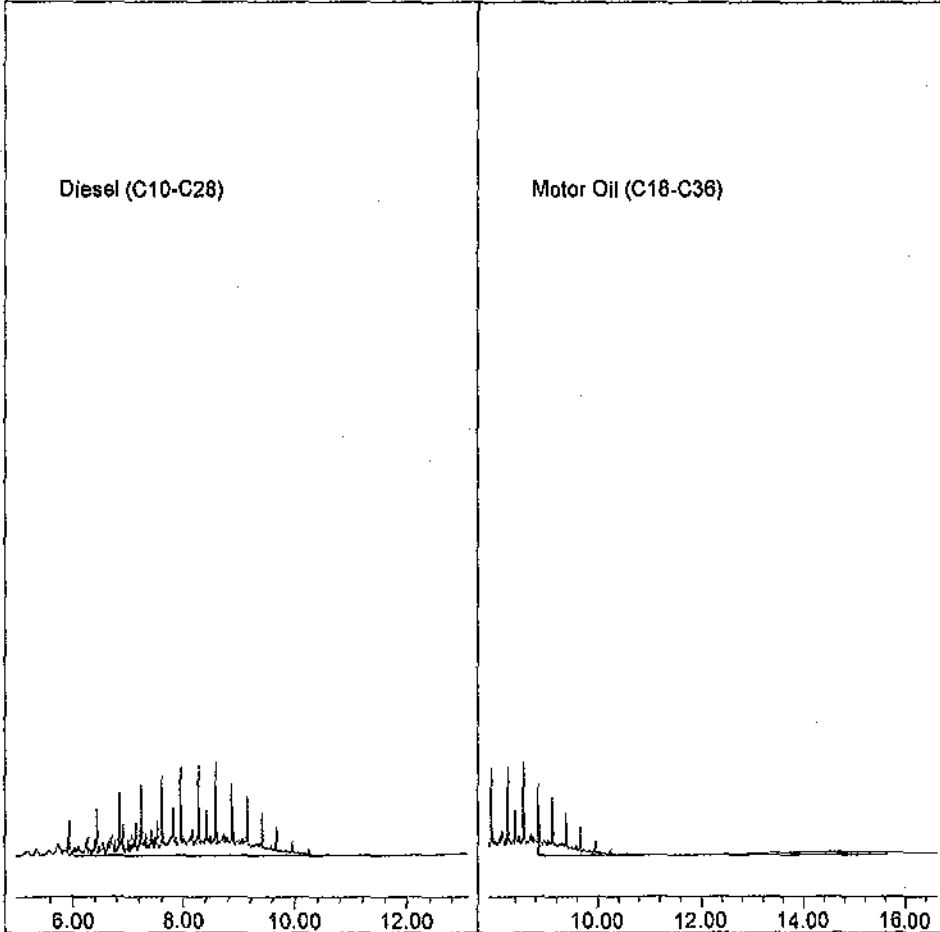
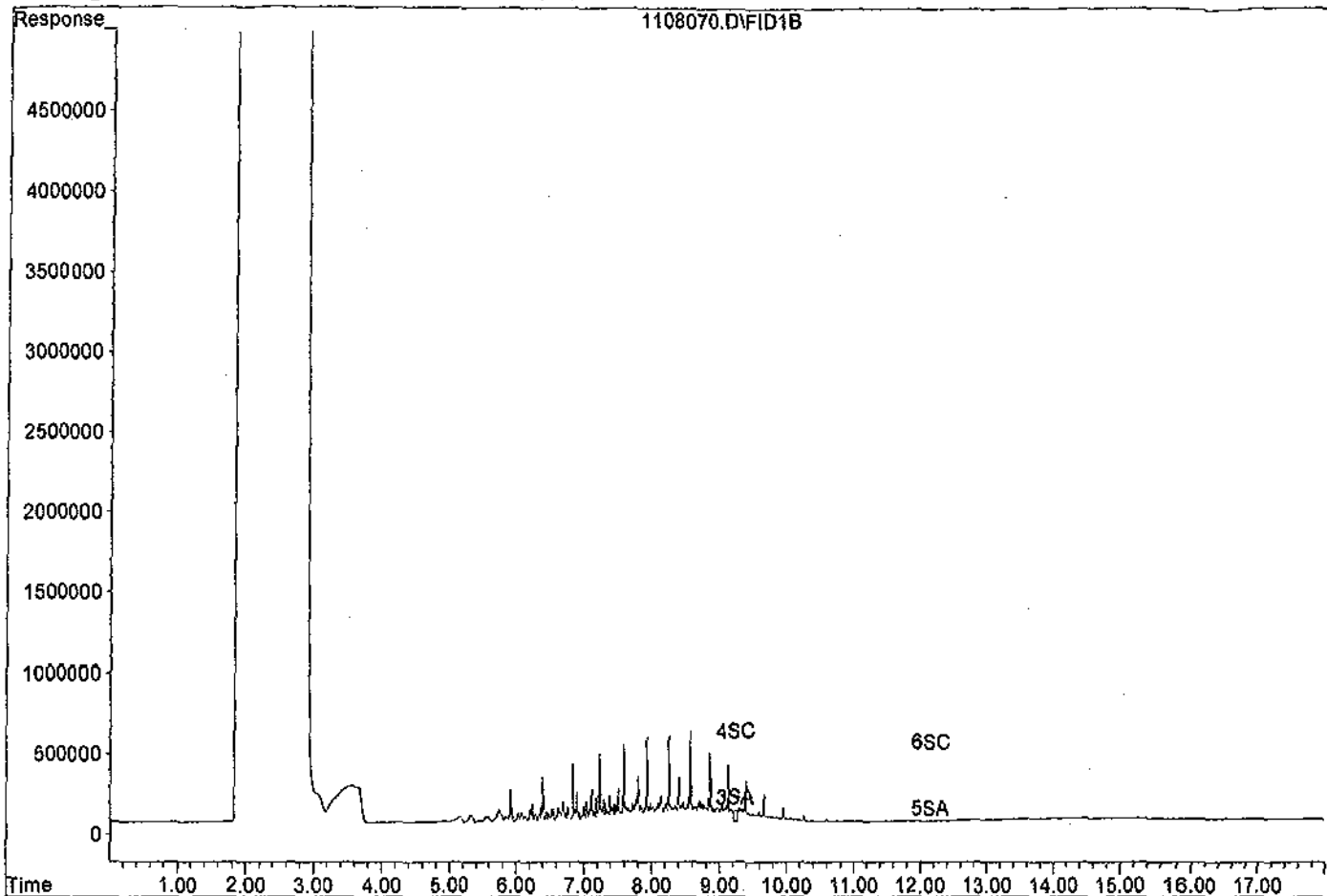
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Not Used(S)	9.24	2204277	2.168 ppb
Surrogate Spike 30.000		Recovery =	7.23%
4) SC Ortho-Terphenyl(S)	9.24	2204277	3.455 ppb
Surrogate Spike 30.000		Recovery =	11.52%
5) SA Not Used2(S)	12.16	136311	0.463 ppb
Surrogate Spike 30.000		Recovery =	1.54%
6) SC Octacosane(S)	12.16	136311	0.584 ppb
Surrogate Spike 30.000		Recovery =	1.95%
Target Compounds			
2) HBTM Motor Oil (C18-C36)	12.24	65481078	788.357 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\111108\1108070.D

Sample : DIESEL 400 2ND SRC 11/8/11



TPH Extractables
TPH8S15

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: 66116

Case No: _____

Date Analyzed: 11/29/11

Matrix: _____

Instrument: Apollo

Initial Cal. Date: 11/08/11

Data File: 1129012.D

	Compound	MEAN	CCRF	%D	%Drift
1	HATM Diesel (C10-C28)	305473	265441	13	HATML 7.9
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
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31					
32					
33					
34					
35					
36					
37					
38					
39					
40					

Average

13.0

Data File : G:\APOLLO\DATA\111129\1129012.D Vial: 12
 Acq On : 11-29-11 13:06:20 Operator: LAC
 Sample : DIESEL 400/1000 11/29/11 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 29 16:12 2011 Quant Results File: TPH8S15.RES

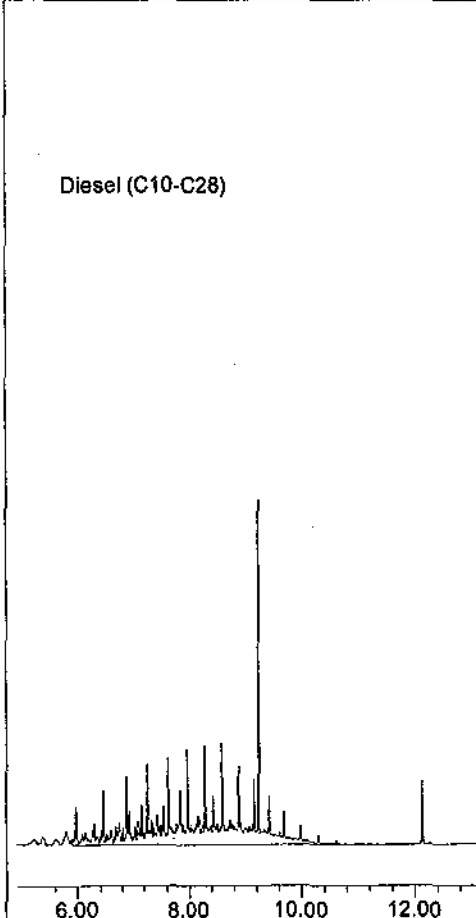
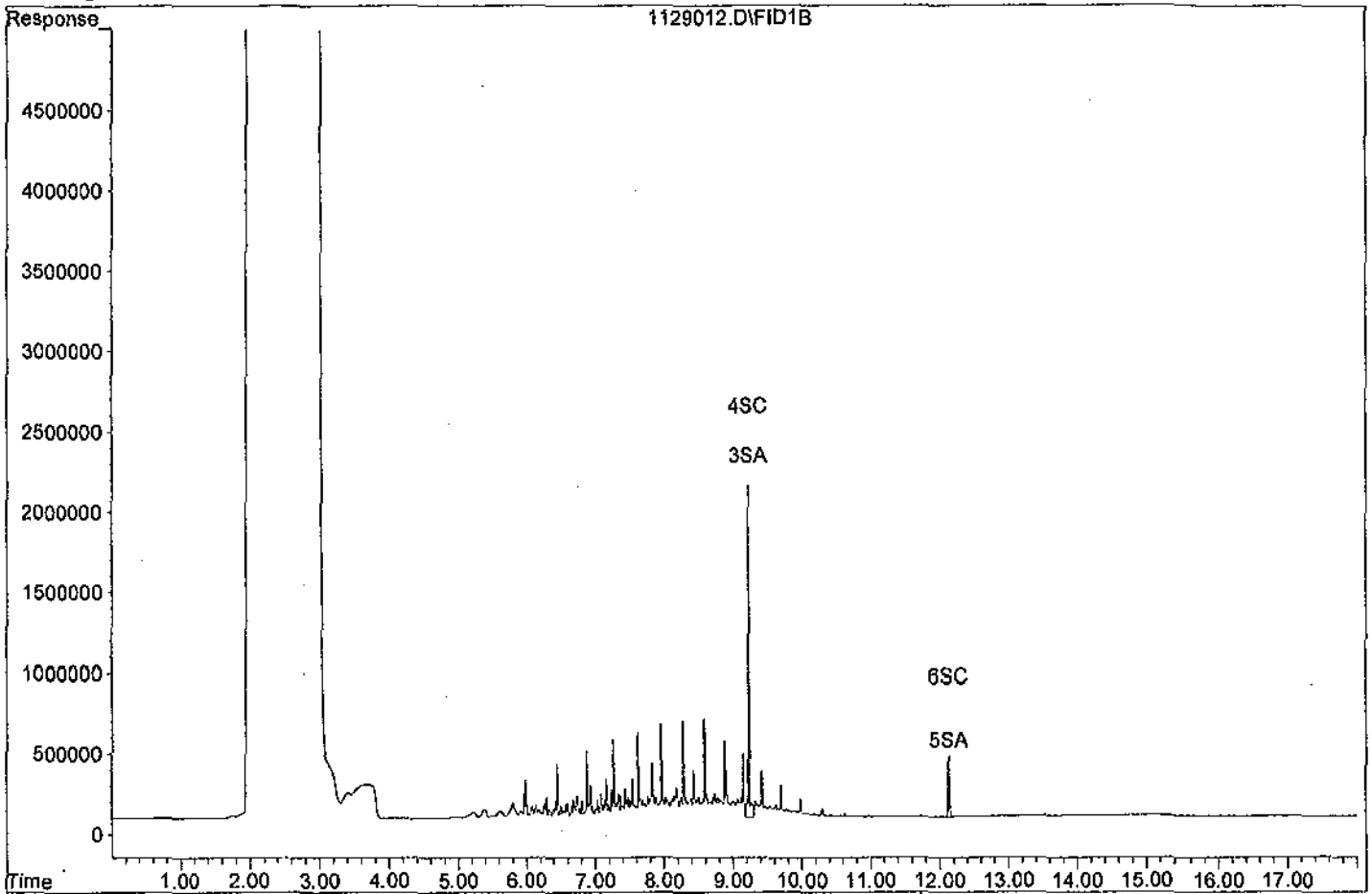
Method : G:\APOLLO\DATA\111123\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Nov 28 16:45:51 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Not Used(S)	9.24	18448540	27.180 ppb
Surrogate Spike 30.000		Recovery =	90.60%
4) SC Ortho-Terphenyl(S)	9.24	18448540	28.915 ppb
Surrogate Spike 30.000		Recovery =	96.38%
5) SA Not Used2(S)	12.14	5020781	31.843 ppb
Surrogate Spike 30.000		Recovery =	106.14%
6) SC Octacosane(S)	12.14	5020781	21.038 ppb
Surrogate Spike 30.000		Recovery =	70.13%
Target Compounds			
1) HATM Diesel (C10-C28)	9.01	212352743	431.747 ppb
2) HBTM Motor Oil (C18-C36)	12.24	65096224	280.338 ppb

Data File: G:\APOLLO\DATA\111129\1129012.D
Sample : DIESEL 400/1000 11/29/11



TPH Extractables
TPH8S15

Form 7
Continuing Calibration

Lab Name: APPL, Inc. _____
Case No: _____
Matrix: _____

SDG No: 66116 _____
Date Analyzed: 11/29/11 _____
Instrument: Apollo _____
Initial Cal. Date: 11/08/11 _____
Data File: 1129024.D _____

	Compound	MEAN	CCRF	%D	%Drift
1	HATM Diesel (C10-C28)	305473	278570	8.8	HATML 13
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
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14					
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28					
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30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					

Average

8.8

Data File : G:\APOLLO\DATA\111129\1129024.D Vial: 24
 Acq On : 11-29-11 21:29:15 Operator: LAC
 Sample : DIESEL 400/1000 11/29/11 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 30 8:35 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111123\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Nov 28 16:45:51 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

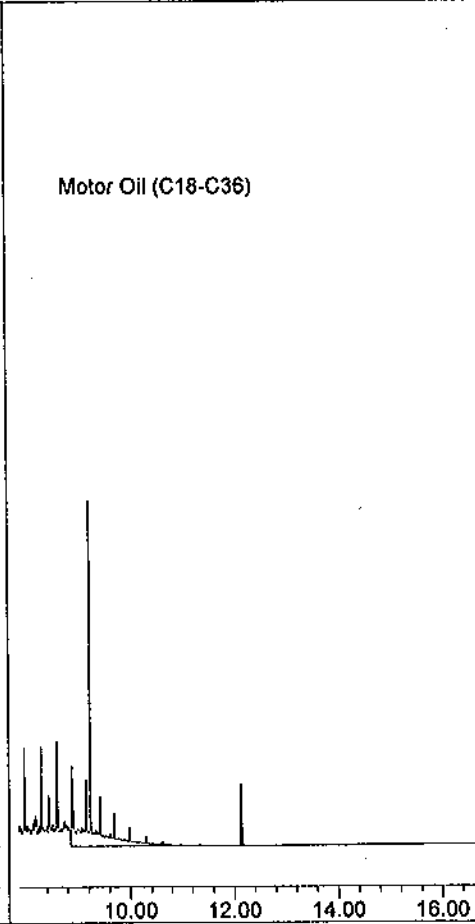
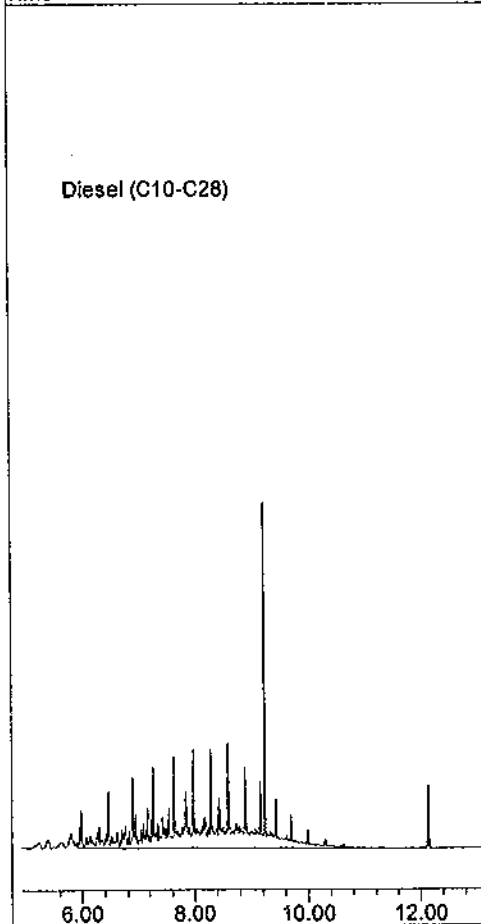
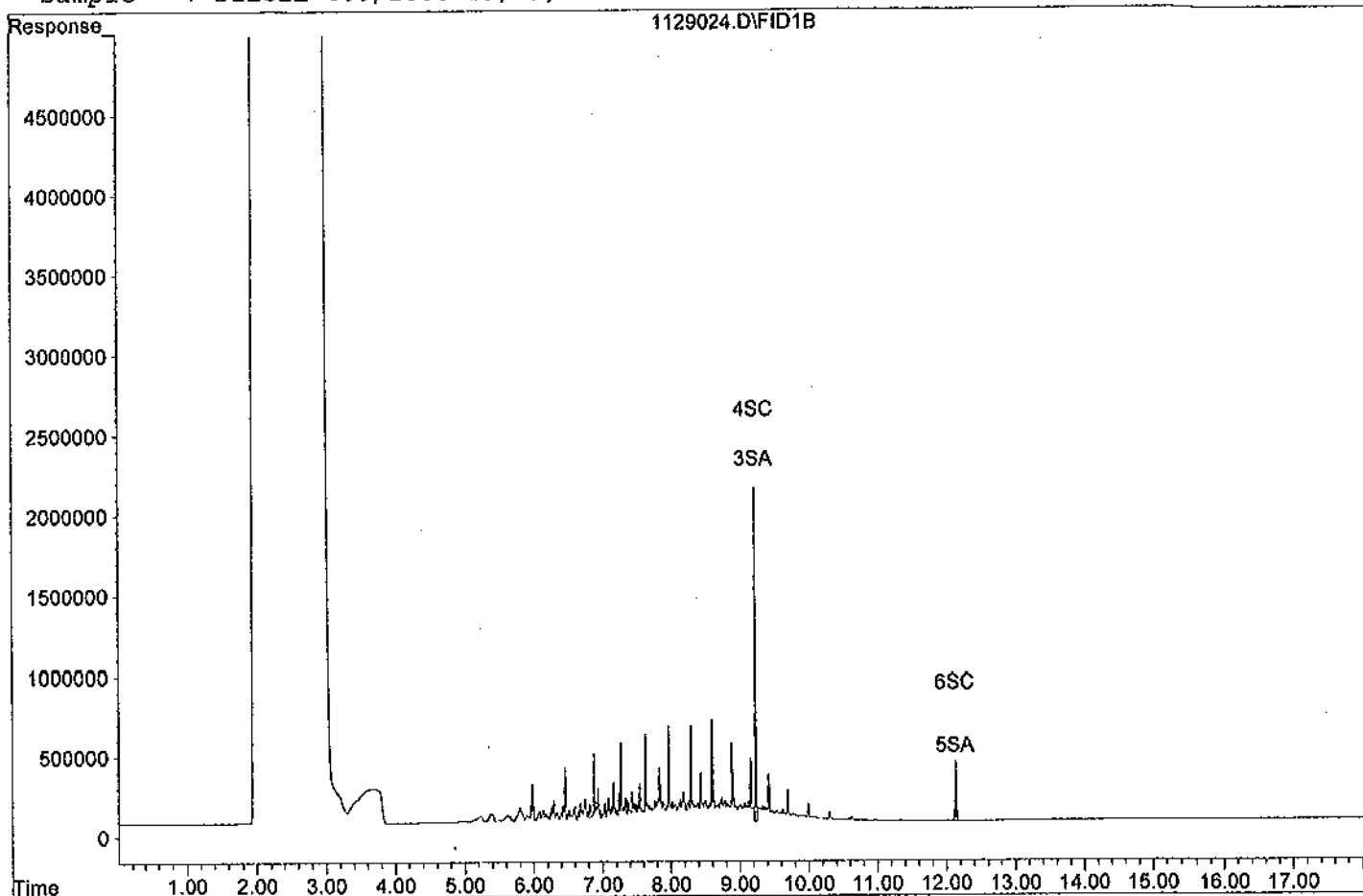
3) SA Not Used(S)	9.24	15158305	22.332 ppb
Surrogate Spike 30.000		Recovery =	74.44%
4) SC Ortho-Terphenyl(S)	9.24	15158305	23.758 ppb
Surrogate Spike 30.000		Recovery =	79.19%
5) SA Not Used2(S)	12.13	4847180	30.742 ppb
Surrogate Spike 30.000		Recovery =	102.47%
6) SC Octacosane(S)	12.13	4847180	20.311 ppb
Surrogate Spike 30.000		Recovery =	67.70%

Target Compounds

1) HATM Diesel (C10-C28)	9.01	222856237	453.399 ppb
2) HBTM Motor Oil (C18-C36)	12.24	69450604	299.090 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\111129\1129024.D
Sample : DIESEL 400/1000 11/29/11



**EPA 8015 Modified
Total Petroleum Hydrocarbons
Raw Data**

Method Blank
TPH Diesel Water

Blank Name/QCG: **111031W-49334 - 160886**
Batch ID: #TPETD-111031A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	DIESEL FUEL	80.8 U	150	80.8	40.4	ug/L	10/31/11	11/06/11
BLANK	SURROGATE: OCTACOSANE (S)	71.2	28-142			%	10/31/11	11/06/11
BLANK	SURROGATE: ORTHO-TERPHEN	60.5	57-132			%	10/31/11	11/06/11

Quant Method: TPH1028.M
Run #: 1106005
Instrument: Apollo
Sequence: 111106
Initials: LA

GC SC-Blank-REG MDLs
Printed: 11/30/11 2:13:54 PM

Data File : G:\APOLLO\DATA\111106\1106005.D Vial: 5
 Acq On : 11-6-11 17:22:09 Operator: LAC
 Sample : 111031A BLK 5/1000 Inst : Apollo
 Misc : Water Multiplr: 5.00
 IntFile : events.e
 Quant Time: Nov 7 9:44 2011 Quant Results File: TPH1028.RES

Method : G:\APOLLO\DATA\111028\TPH1028.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Oct 31 10:02:11 2011
 Response via : Multiple Level Calibration

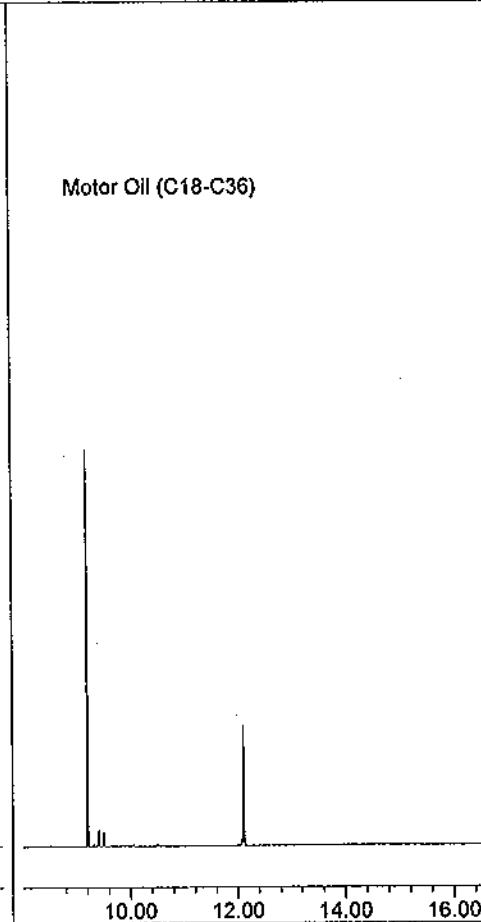
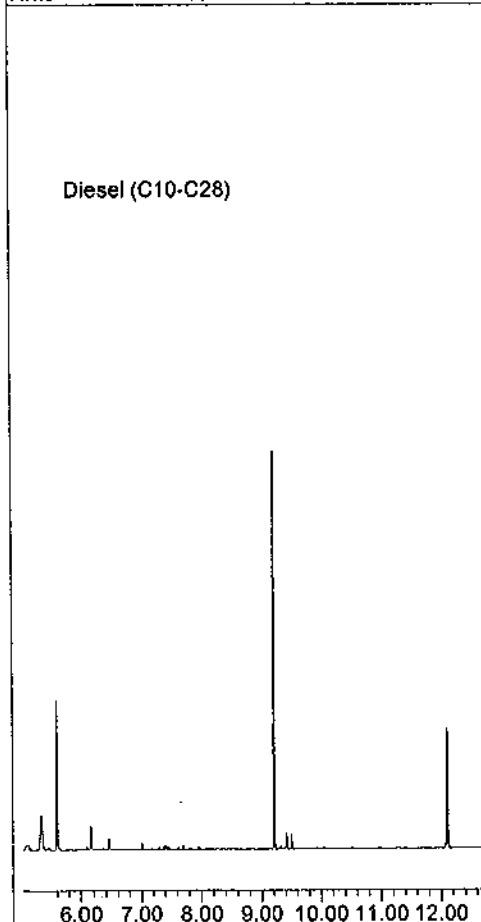
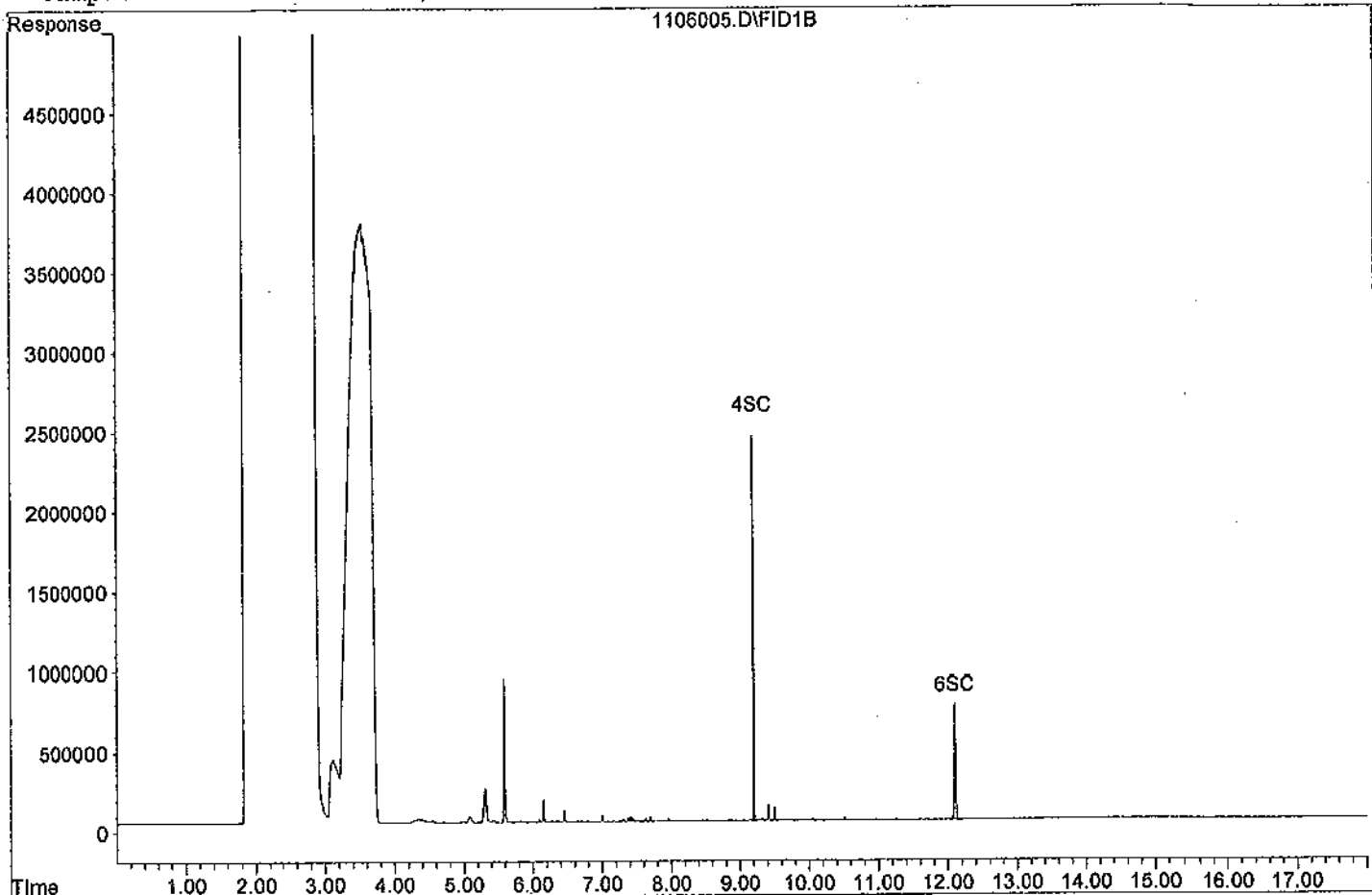
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.21	15818444	90.703 ppb
Surrogate Spike 150.000		Recovery =	60.47%
6) SC Octacosane(S)	12.11	9943034	106.834 ppb
Surrogate Spike 150.000		Recovery =	71.22%

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\111106\1106005.D
Sample : 111031A BLK 5/1000



Laboratory Control Spike Recovery
TPH Diesel Water

APPL ID: 111031W-49334 LCS - 160886

Batch ID: #TPETD-111031A

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
DIESEL FUEL	2000	1520	76.0	61-143
SURROGATE: OCTACOSANE (S)	150	125	83.3	28-142
SURROGATE: ORTHO-TERPHENYL (S)	150	147	98.0	57-132

Comments:

<u>Primary</u>	<u>SPK</u>
Quant Method :	TPH8S15.M
Extraction Date :	10/31/11
Analysis Date :	11/29/11
Instrument :	Apollo
Run :	1129017
Initials :	LA

Printed: 11/30/11 2:13:48 PM

APPL Standard LCS

Data File : G:\APOLLO\DATA\111129\1129017.D Vial: 17
 Acq On : 11-29-11 18:45:15 Operator: LAC
 Sample : 111031A LCS-1 5/1000 Inst : Apollo
 Misc : Water Multiplr: 5.00
 IntFile : events.e
 Quant Time: Nov 30 10:29 2011 Quant Results File: TPH8S15.RES

Method : G:\APOLLO\DATA\111123\TPH8S15.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Nov 28 16:45:51 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound R.T. Response Conc Units

System Monitoring Compounds

4) SC Ortho-Terphenyl(S)	9.24	18706073	146.595 ppb
Surrogate Spike 150.000		Recovery =	97.73%
6) SC Octacosane(S)	12.14	5944718	124.549 ppb
Surrogate Spike 150.000		Recovery =	83.03%

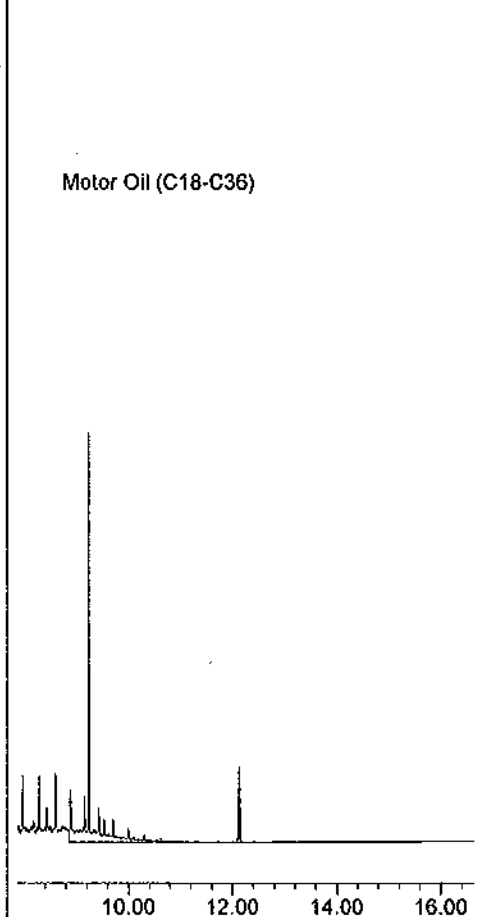
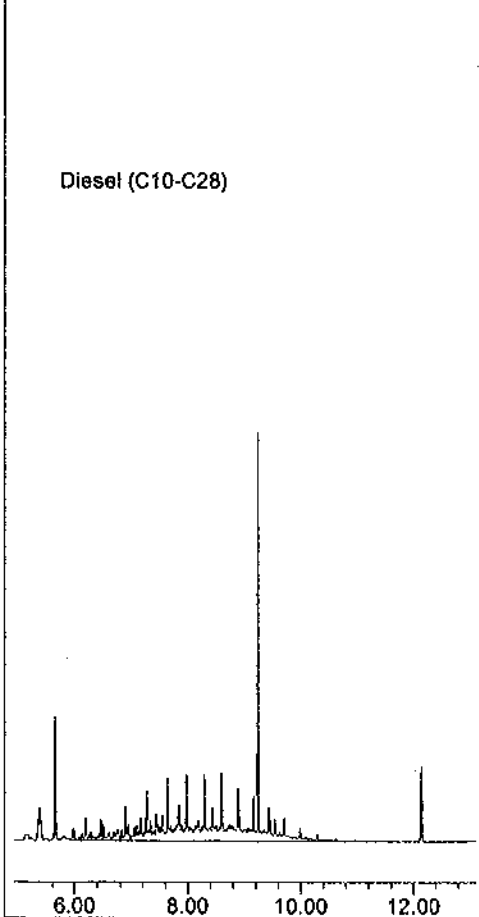
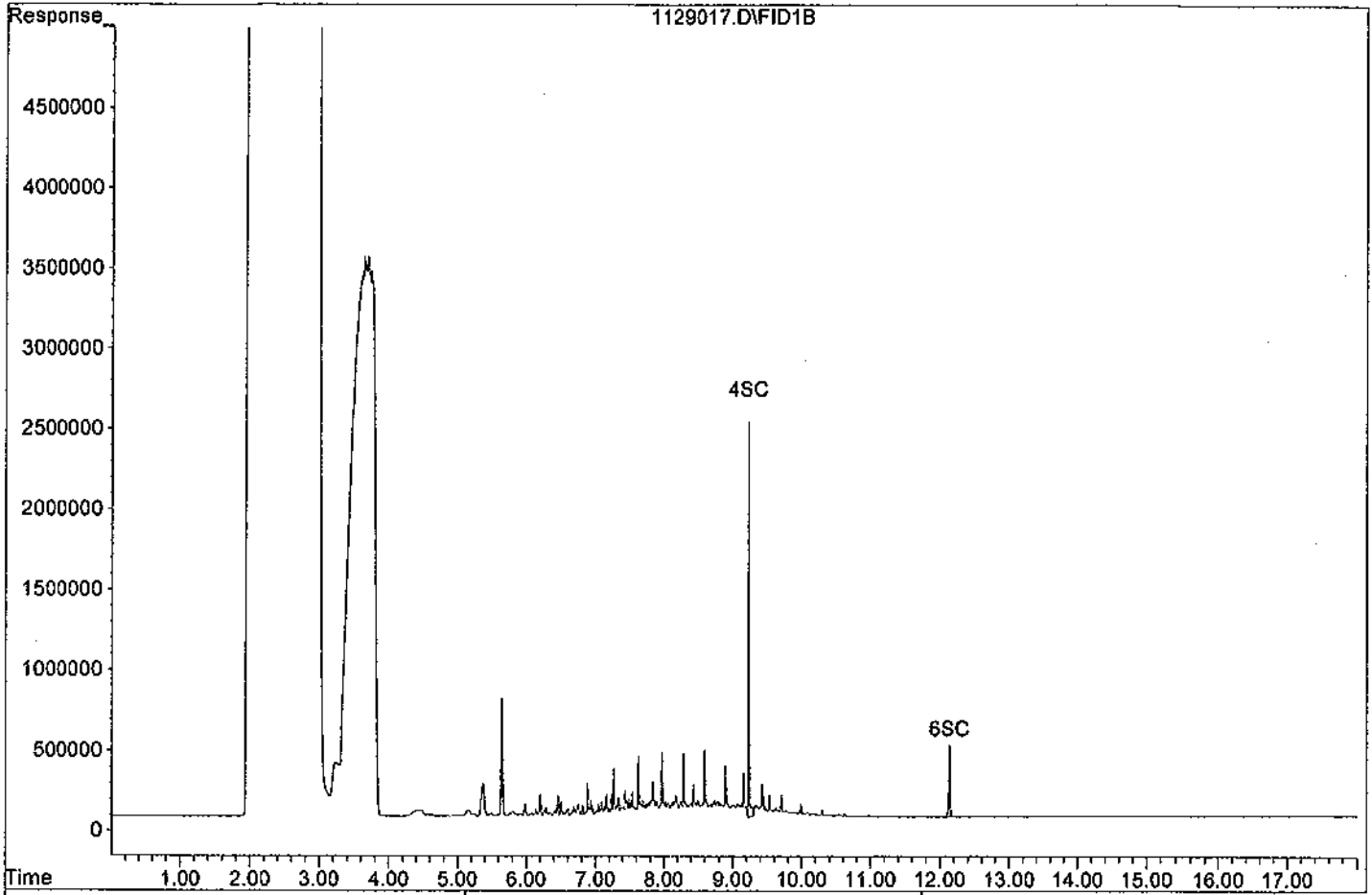
Target Compounds

1) HATM Diesel (C10-C28)	9.01	150395375	1520.130 ppb
2) HBTM Motor Oil (C18-C36)	12.24	50801855	1093.895 ppb

Algorithm Check:
$$\frac{(18706073)(5)}{(319010)(2)} = 146.59487227$$
 UAC 11/30/11
 UAC 11/30/11

Data File: G:\APOLLO\DATA\111129\1129017.D

Sample : 111031A LCS-1 5/1000



STANDARD

INITIAL SOURCE FINAL FINAL SOLVENT
CONC DATE ALIQUOT VOLUME CONC LOT # 029

MOTOR OIL SPIKE

MOTOR OIL 50000mg/ml 02S1 200ml 50ml 2000mg/ml MC #0701118 8/5/11

02si smart solutions
Motor Oil Composite, 50,000 mg/L, 1 ml
116390-02 Storage: <= -10 Degrees C
Lot No: 161898 Solvent: Methylene Chloride
Made in USA Exp: 7/23/2013
Date Op: MOTOR OIL COMPOSITE
Lot #: 161898 - 28613
Rec: 4/14/11 MFR exp. 07/23/13

02si smart solutions
Motor Oil Composite, 50,000 mg/L, 1 ml
116390-02 Storage: <= -10 Degrees C
Lot No: 161898 Solvent: Methylene Chloride
Made in USA Exp: 7/23/2013
Date Op: MOTOR OIL COMPOSITE
Lot #: 161898 - 28614
Rec: 4/14/11 MFR exp. 07/23/13

OCL/OP WATER SURROGATE

DAC 5000mg/ml 02S1 30ml 100ml 1.5mg/ml ACETONE #011011C 8/5/11

02si smart solutions
Pesticide Surrogate Solution, 5,000 mg/L, 1 ml
Cat. No: 130070-02 Exp: 12/19/2012
Lot No: 154164 Storage: <= Ambient
--27593 Solvent: Tol.:Hex. 1:1
Not for Human Consumption For Research Use Only
Made in USA Date Opened: 8/5/11 EX: 8/5/12

TBP 1000mg/ml 02S1 500ml 5mg/ml

02si smart solutions
Tributyl- and Triphenylphosphate Solution, 1,000 mg/L, 1 ml
Cat. No: 130161-02 Exp: 7/12/2012
Lot No: 148444 Storage: <= 10 Degrees C
--27667 Solvent: Acetone
Not for Human Consumption For Research Use Only
Made in USA Date Opened: 8/5/11 EX: 8/5/12

OCL/OP SOIL SURROGATE

DAC 5000mg/ml 02S1 400ml 100ml 20mg/ml ACETONE #011011C 8/5/11

CAT: 130070-02
LOT: 154164-27593
OP: 8/5/11 EX: 8/5/12

TBP 1000mg/ml 02S1 500ml 5mg/ml

CAT: 130161-02
LOT: 148444-27667
OP: 8/5/11
EX: 7/12/12

STANDARD INITIAL CONC SOURCE DATE ALIQUOT VOLUME FINAL CONC SOLVENT LOT#

033

THC SURROGATE (* GAVE TO EXTRACTION)

OTERAPENTYL 600µg/ml 02S1 N/A 25ML 600µg/ml N/A 8/8/11
 OCTACOSANE CAT: 110316-05 8/8/12
 LOT: 170258-29333
 OP: 8/8/11
 EX: 8/8/12

THC SURROGATE

OTERAPENTYL 600µg/ml 02S1 N/A 25ML 600µg/ml N/A 8/8/11
 OCTACOSANE CAT: 110316-05 8/8/12
 LOT: ~~170258~~ 176405-29334
 THRU 176405-29337
 OP: 8/8/11
 EX: 8/8/12

OCL Degradation Check

DDT 100µg/ml 02S1 250ml 50ml 0.5µg/ml Hexane 8/11/11
 DDD CAT: 130109-01 #082610B 8/11/11
 DDE LOT: OC Pesticide Degradation Check 2/11/12
 Lot #: 176400-29311
 Rec: 8/8/11 MFR exp. 07/29/14
 ENDREN OP: 8/11/12
 FURFURYLKETONE EX: 8/11/12
 NODINE ALDEHYDE

OCL STOCK

VARIOUS 100µg/ml 02S1 100µg/ml 10µg/ml 10µg/ml Hexane 8/11/11
 ANALYSIS #082610B 8/11/11
 EX: 8/11/12

Organochlorine Pesticide Solution 20, 100 mg/L, 10ml

176673-09

Lot# 176673 Storage 58 Degree C Expiry 8/2/14

Organochlorine Pest Soln 20

Lot #: 176673 - 29347

Rec: 8/9/11 MFR exp. 08/02/14

OP: 8/11/11
 EX: 8/11/12

STANDARD
052

INITIAL CONC	SOURCE DATE	FINAL ALIQUOT VOLUME	FINAL CONC	SOLVENT LOT #	DATE / INITIALS
--------------	-------------	----------------------	------------	---------------	-----------------

DIESEL STANDARD

DIESEL FUEL #2

50,000mg/L

0251

1000ml

50ML

1000mg/L

MC

Ⓟ

Diesel Fuel #2 Composite,
50,000 mg/L, 1 ml

051711B

9/1/11

11598-83
Lot # Storage Expiry
167768 5-10 Degree C 2/15/15
Sol: Methylene Chloride
Diesel Fuel #2 Composite OP: 9/1/11
Lot #: 167768 - 28176 EX: 9/1/12
Rec: 1/20/11 MFR exp. 02/15/15

EX:
3/1/12

OCTADECANE
D-TERPHENYL

600mg/L

0251

4170ml

50mg/L

CAT: 110316-05
LOT: 176405-29337
OP: 9/1/11
EX: 9/1/12

MOTOR OIL STANDARD

MOTOR OIL

50,000mg/L 0251

1000ml

50ML

1000mg/L

MC

Ⓟ

0251

Motor Oil Composite, 50,000 mg/L, 1 ml
116390-02
Lot No: 161898
Exp: 7/23/13
Solvent: Methylene Chloride
Motor oil composite
Lot #: 161898 - 28615
Rec: 4/14/11 MFR exp. 07/23/13

OP: 9/1/11
EX: 9/1/12

051711B

9/1/11

EX:
3/1/12

DIESEL 2ND SOURCE

DIESEL FUEL #2

50,000mg/L

0281

1000ml

50ML

1000mg/L

MC

Ⓟ

Diesel Fuel #2 Composite,
50,000 mg/L, 1 ml

051711B

9/1/11

11598-83
Lot # Storage Expiry
167769 5-10 Degree C 2/15/15
Sol: Methylene Chloride
Diesel Fuel #2 Composite OP: 9/1/11
Lot #: 167769 - 29397 EX: 9/1/12
Rec: 8/28/11 MFR exp. 02/15/15

EX:
3/1/12

STANDARD

INITIAL CONC

SOURCE DATE

ALIQUOT

FINAL VOLUME

FINAL CONC

SOLVENT / LOT#

DATE: 10/19/11

KEROSENE/JP5 STD

STD	INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOL.	FINAL CONC	SOLVENT / LOT#
JP5/ KEROSENE	50,000 µg/mL	O2SI CAT #010597-S50 LOT# 159381 OP: 4/18/11 EX: 4/18/12	500 µL	25 mL	1000 µg/mL	MC LOT# 032811C

LAC
10/18/11
EX: 4/18/12

KEROSENE/JP5 CURVE

STANDARD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
Kerosene	1000		10/18/2011	4/18/2012	50	100	400	600	800	1000
JP5	MC	032811C			950	900	600	400	200	NA
					Final VOL.	1000	1000	1000	1000	1000

LAC
10/18/11
EX: 4/18/12

DIESEL CCV 400ug/ml

STANDARD	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT /LOT#
DIESEL STD.	1000UG/ML	O2SI	400µL	1mL	400 µg/ml	MC
		9/1/2011	3/1/2012			051711B

LAC
10/18/11
EX: 3/1/12

MOTOR OIL CCV 400UG/ML

STANDARD	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT /LOT#
MOTOR OIL STD	1000UG/ML	O2SI	400µL	1mL	400 µg/ml	MC
		9/1/2011	3/1/2012			051711B

PRODIAMINE STANDARD

diamine 1000µg/ml O2SI 10ml 10ml 1µg/ml ACETONE
 CAT: 031919-02 # DIOLIC
 LOT: 161445-26939
 OP: 10/19/11
 EX: 7/1/12

10/19/11
EX: 4/19/12

Prodlamine Curve

PREP DATE:	10/19/2011										
EXP:	4/19/2012										
SUPPLIER	ID#	µg/ml	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
Prodlamine	1			10/19/2011	4/19/2012	5	50	100	150	200	250
HEXANE			082610B			995	950	900	850	800	750
						Final VOL.	1000	1000	1000	1000	1000

10/19/11
EX: 4/19/12

STANDARD
082

INITIAL SOURCE FINAL SOLVENT DATE /
CONC DATE ALIQUOT VOLUME CONC LOT# INITIALS

DIESEL SPIKE

DIESEL FUEL #2	50000µl	02SI	2000µl	50µl	2000µg/l	MC		
	OP: 10/21/11 Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml		OP: 10/21/11 Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml			# 51204	10/21/11	EX: 1/21/12
	Lot #: 179635 - 29641 Rec: 10/13/11 MFR exp. 11/08/15		Lot #: 179635 - 29642 Rec: 10/13/11 MFR exp. 11/08/15					

508 ATROPHILE

* GAVE TO EXTRACTION TO SPIKE #

VARIOUS ANALYTES	100/2000µl	02SI	N/A	1ml	100/2000µg/l	N/A		
	OCC Pesticide Standard, 100/2000 mg/L, 1 ml						10/21/11	EX: 10/21/12
	Cat No: 130200-02 Lot No: 156275 OCC Pesticide 100/2000mg/L Lot #: 156275 - 26160 Rec: 2/23/10 MFR exp. 02/21/13				Exp: 2/21/2013 Storage: <= 6 Degrees C Solvent: Tol:Hex. 1:1 on For Research Use Only end: 10/21/11 EX: 10/21/12			

508 CALIBRATION CURVE

Compound	Conc. In Mix	Conc. Of Stock	Aliquot	stock source	Final Vol.	Solvent Lot#
alachlor	(1) 0.005/0.1	5/100ug/ml	10ul	508 stock	10 mL	Hexane
benfluralin	(2) 0.03/0.6	5/100ug/ml	60ul	prep: 4/8/11	10 mL	# 082610B
captan	(3) 0.05/1.0	5/100ug/ml	250ul	Exp: 1/25/12	25 mL	
carbophenothion	(4) 0.1/2.0	5/100ug/ml	200ul		10 mL	
chlorothalonil	(5) 0.15/3.0	5/100ug/ml	300ul		10 mL	
chlorothal(da)clhal	(6) 0.2/4.0	5/100ug/ml	400ul		10 mL	
2,6 dichlorobenzonitrile(dicofol)						
keltthane						
nitrofen						
oxadiazon						
oxyfluorfen						
propachlor						
op DDD						
op DDE						
op DDT						
bis(2-ethylhexyl)phthalate						

508 2ND SRC

Compound	Init. Conc.	Stock Src	Aliquot	Final Vol	Final Conc.	Solvent Lot#
See Above	5/100 ug/ml	508 2nd Src Stock	250 uL	25 mL	0.05/1 ug/ml	Hexane
		Prep: 10/21/11				082610B
		Exp: 4/8/12				

STANDARD
088

INITIAL CONC DATE ALIQUOT VOLUME FINAL CONC SOLVENT DATE INITIALS

LAC 10/28/11

TCH SURROGATE CURVE										
STD	[ug/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
THC SURR	50	178405	10/17/2011	4/17/2012	50	100	400	600	800	1000
MC		51204			950	900	600	400	200	NA
					Final VOL.	1000	1000	1,000	1000	1000

LAC
10/28/11
EX: 4/1/12

DIESEL CURVE										
STD	[ug/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
DIESEL	1000		10/26/2011	4/26/2012	10	100	400	600	800	1000
MC		51204			950	900	600	400	200	NA
					Final VOL.	1000	1000	1,000	1000	1000

LAC
10/28/11
EX: 4/26/12

MOTOR OIL CURVE										
STD	[ug/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
MOTOR OIL	1000		10/26/2011	4/26/2012	50	100	400	600	800	1000
MC		51204			950	900	600	400	200	NA
					Final VOL.	1000	1000	1,000	1000	1000

LAC
10/28/11
EX: 3/1/12

DIESEL 2ND SOURCE						
STD	Init. Conc	Source	Aliquot	Final Vol.	Final Conc.	Solvent
DIESEL 2ND SRC	1000 ug/ml	O2SI	400 µL	1 mL	400 ug/mL	MC
	Prep:	9/1/2011				51204
	Exp:	3/1/2012				

LAC 10/28/11

KEROSENE/JP6 CURVE										
STANDARD	[ug/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
Kerosene	1000		10/18/2011	4/18/2012	50	100	400	600	800	1000
JP6	MC	51204			950	900	600	400	200	NA
					Final VOL.	1000	1000	1000	1000	1000

LAC
10/28/11
EX: 4/18/12

11/1/11

OP 2ND SOURCE						
PREP DATE:	11/1/2011					
EXP:	4/19/2012					
SUPPLIER	ID#	[ug/mL]	LOT #	DATE	EXP. DATE	µL
OP 2ND SRC	5			10/19/2011	4/19/2012	500
VWR	HEXANE		0826108			500
						Final VOL. 1000

11/1/11
EX: 4/19/12

OPF CURVE										
PREP DATE:	11/1/2011									
EXP:	4/13/2012									
SUPPLIER	ID#	[ug/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL
OPF STD	5			10/19/2011	4/13/2012	2	10	50	200	500
	Hexane		0826108			998	990	950	800	500
						Final VOL.	1000	1000	1000	1000

11/1/11
EX: 4/13/12

OPC CURVE										
PREP DATE:	11/1/2011									
EXP:	3/15/2012									
SUPPLIER	ID#	[ug/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL
OPC STD	5			9/15/2011	3/15/2012	10	50	200	500	700
	Hexane		0826108			990	950	800	500	300
						Final VOL.	1000	1000	1000	1000

11/1/11
EX: 3/15/12

STANDARD INITIAL CONC SOURCE DATE ALIQUOT VOLUME FINAL CONC SOLVENT/ LOT# DATE

DIESEL STANDARD

DIESEL FUEL #2 50000mg/L D2S1 600ml 50ml 1000mg/L MC # 51204 10/26/11
 Ex: 4/26/12

OP: 10/26/11

Lot # 167768 Storage 3-10 Degrees C Ex: 10/26/12

Rec: 8/26/11 MFR exp. 02/15/15

Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml

911594-83

Lot # 167768 Storage 3-10 Degrees C Ex: 10/26/12

Solvent: Methylene Chloride

TRIPHENYL ROSANINE 600mg/L D2S1 4170ml 50mg/L

CAT: 110316-05

LOT: 176405-29338

OP: 10/10/11

EX: 10/10/12

MOTOR OIL STANDARD

MOTOR OIL 50000mg/L D2S1 1000ml 50ml 1000mg/L MC # 51204 10/26/11
 Ex: 4/26/12

OP: 10/26/11

Lot # 161898 Storage <4 -10 Degrees C Ex: 10/26/12

Rec: 4/14/11 MFR exp. 07/23/13

Motor Oil Composite, 50,000 mg/L, 1 ml

116390-02

Lot No 161898 Solvent Methylene Chloride

Exp: 7/23/2013

Date: Motor oil composite

Lot #: 161898 - 28616

	PAC EGO 2ND SOURCE				
DIAZINON	5ug/ml	200ug/ml	250ul	O2S1	10ml
DISULFOTON		200	CAT:	130169-01	HEXANE
MALATHION		200	LOT:	178204-29481	LOT#
MOLINATE		200	OP:	10/26/2011	082610B
PHORATE		200	EXP:	3/11/2012	
THIOBENCARB		200			
TRIBUTYL PHOSPHATE		200			
DEMETON		200			
DISCHLORVOS		200			
EPTC		200			
PARATHION		200			
AZINPHOS METHYL		200			
CHLORPYRIFOS		200			
DIMETHOATE		200			
METHIDATHION		200			
METHYL PARATHION		200			
ATRAZINE		200			
CYANIZINE		200			
TRIPHENYL PHOSPHATE		200			
PENDIMETHALIN (PROV)		200		141	
TRIFLURALIN		200			
SIMAZINE		200			

10/26/11
 Ex: 3/11/12

10/26/11

STANDARD

INITIAL SOURCE FINAL FINAL SOLVENT DATE
CONC DATE ALIQUOT VOLUME CONC LOT#

PREP:	11/7/2011											
PAC ECO CURVE												
EXP:	2/25/2012											
ID#	[ug/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	µL	µL
PAC ECO CAL STD	6		10/26/2011	2/25/2012	2	10	50	200	500	700	1000	
VWR	HEXANE	010711A			950	990	950	800	500	300	N/A	
					Final VOL.	1000	1000	1000	1000	1000	1000	1000
PAC ECO 2ND SRC												
Prep:	11/7/11	Exp:	12/17/11		5	010711A	10/26/2011	12/17/2011	500/1000			

11/7/11
EX: 2/25/12
11/7/11
EX: 12/17/11

THC SURROGATE CURVE												
STD	[ug/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	µL	µL
THC SURR	50	178405	10/17/2011	4/17/2012	50	100	400	600	800	200	1000	
MC		51204			950	800	600	400	200	NA		
					Final VOL.	1000	1000	1000	1000	1000	1000	1000

11/8/11
EX: 4/17/12

DIESEL CURVE												
STD	[ug/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	µL	µL
DIESEL	1000		10/26/2011	4/26/2012	10	100	400	600	800	1000		
MC		51204			950	800	600	400	200	NA		
					Final VOL.	1000	1000	1000	1000	1000	1000	1000

11/8/11
EX: 4/26/12

MOTOR OIL CURVE												
STD	[ug/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	µL	µL
MOTOR OIL	1000		10/26/2011	4/26/2012	50	100	400	600	800	1000		
MC		51204			950	800	600	400	200	NA		
					Final VOL.	1000	1000	1000	1000	1000	1000	1000

11/8/11
EX: 4/26/12

DIESEL 2ND SOURCE						
STD	Init. Conc	Source	Aliquot	Final Vol.	Final Conc.	Solvent
DIESEL 2ND SRC	1000ug/ml	O2SI	400µL	1 mL	400 ug/mL	MC
	Prep:	0/1/2011				51204
	Exp:	3/1/2012				

11/8/11
EX: 3/1/12

PREP DATE:	11/9/2011											
TERRACIL CURVE												
EXP:	3/13/2012											
						0.05	0.25	1	2.5	3.5	5	
SUPPLIER	ID#	[ug/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	µL
TERRACIL STD	6			9/13/2011	3/13/2012	10	50	200	500	700	1000	
VWR	HEXANE		0826108			950	920	900	800	500	300	
						Final VOL.	1000	1000	1000	1000	1000	1000

11/9/11
EX: 3/13/12

PREP DATE:	11/9/2011											
OP 2ND SOURCE												
EXP:	4/19/2012											
SUPPLIER	ID#	[ug/mL]	LOT #	DATE	EXP. DATE	µL						
OP 2ND SRC	6			10/19/2011	4/19/2012	500						
VWR	HEXANE		0826108			500						
						Final VOL.	1000					

11/9/11
EX: 4/19/12

PREP DATE:	11/9/2011											
OPF CURVE												
EXP:	2/7/2012											
						1A	1	2	3	4	5	6
SUPPLIER	ID#	[ug/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL	µL
OPF STD	5			11/3/2011	2/7/2012	2	10	50	200	500	700	1000
	Hexane		0826108			950	990	950	800	500	300	NA
						Final VOL.	1000	1000	1000	1000	1000	1000

11/9/11
EX: 2/7/12

STANDARD

INITIAL
CONCSOURCE
DATE

ALIQOT

FINAL
VOLUMEFINAL
CONCSOLVENT/
LOT#DATE/
INITIALSPCB SOIL SPIKE

AR 1260

1000mg/ml

0251

1250ml

25ml

50mg/ml

ACETONE

Ⓟ

AR 1016

CAT: 130011-03

#

11/10/11

LOT: 163607-27215

EX: 2/10/12

OP: 11/10/11

EX: 11/10/12

AND

LOT: 152374-27210

OP: 3/2/11

EX: 3/2/12

PCB WATER SPIKE

AR 1016

1000mg/ml

0251

125ml

25ml

5mg/ml

ACETONE

Ⓟ

AR 1260

CAT: 130011-03

#

11/10/11

LOT: 163607-27214

EX: 2/10/12

OP: 8/2/11

EX: 8/2/12

HERB 100/1000 (LVL 3) CCV

VARIOUS

VARIOUS

HERB STD.

100ml

1ml

100mg/ml

MOTBE

Ⓟ

SEE PG 075

PREP: 10/11/11

#

11/10/11

EX: 4/11/12

EX: 4/11/12

THC SURROGATE CAL. STD.

D-TETRAHYDRO

1000mg/ml

0251

834ml

10ml

50mg/ml

MC

Ⓟ

CANNABIS

CAT: 110316-05

#

11/15/11

LOT: 176405-29342

EX: 5/15/12

OP: 10/10/11

EX: 10/10/12

THC SURROGATE CURVE

STD	[ug/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
THC SURR	50	176405	11/15/2011	5/15/2012	50	100	400	600	800	1000
MC		51204			950	900	600	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

CAS 1115/11

ZAC

11/15/11

EX: 5/15/12

STANDARD

INITIAL
CONC

SOURCE
DATE

ALIQOT

FINAL
VOLUME

FINAL
CONC

SOLVENT
LOT #

DATE /
105IALS

10/26/11

DIESEL CCV 400ug/ml						
STANDARD	INITIAL CONC.	SOURCE DATE	ALIQOT	FINAL VOL	FINAL CONC.	SOLVENT /LOT#
DIESEL STD.	1000UG/ML	O2SI	400µL	1mL	400 µg/ml	MC
		10/26/11	04/26/12			51204

10/26/11
exp
9/26/11

MOTOR OIL CCV 400UG/ML						
STANDARD	INITIAL CONC.	SOURCE DATE	ALIQOT	FINAL VOL	FINAL CONC.	SOLVENT /LOT#
MOTOR OIL STD	1000UG/ML	O2SI	400µL	1mL	400 µg/ml	MC
		10/26/11	04/26/12			51204

STANDARD

INITIAL
CONC

SOURCE
DATE

ALIQUOT VOLUME

FINAL
VOLUME

FINAL
CONC

SOLVENT
LOT#

DATE /
INITIALS

OIL / OP WATER SURROGATE

DECA

5000µg/ml

O2S1

30µl

100µl 1.5µg/ml

ACETONE

11/2/11

TCMX

CAT: 130070-02

011011C

EX: 2/2/12

DAL

LOT: 154164-29416

OP: 11/2/11

EX: 11/2/12

TBP

1000µg/ml

O2S1

500µl

5µg/ml

TPP

Tributyl- and
Triphenylphosphate Solution,
1,000 mg/L, 1 ml
130161-02
Lot# 164817 Storage Expiry
5-10 Degree C 10/19/13
Sub: Acetone
Tributyl and Triphenyl Phosphate
Lot #: 164817 - 27660
Rec: 10/20/10 MFR exp. 10/19/13

OIL / OP WATER SURROGATE

DECA

5000µg/ml

O2S1

30µl

100µl 1.5µg/ml

ACETONE

11/3/11

TCMX

CAT: 130070-02

011011C

EX: 2/3/12

DBC

LOT: 154164-29416

OP: 11/2/11

EX: 11/2/12

TBP

1000µg/ml

O2S1

500µl

5µg/ml

TPP

CAT: 130161-02

LOT: 164817-27660

OP: 11/2/11

EX: 11/2/12

* WAS NOT RECORDED ON 11/2/11

DIESEL CCV 400µg/ml

STANDARD	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT /LOT#
DIESEL STD.	1000UG/ML	O2S1	400µL	1ml	400 µg/ml	MC
		10/26/2011	4/28/2012			51204

MOTOR OIL CCV 400UG/ML

STANDARD	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT /LOT#
MOTOR OIL STD	1000UG/ML	O2S1	400µL	1ml	400 µg/ml	MC
		10/26/2011	4/28/2012			51204

KEROSENE CCV 400 UG/ML

STANDARD	INITIAL CONC.	SOURCE DATE	ALIQUOT	FINAL VOL	FINAL CONC.	SOLVENT /LOT#
KEROSENE NPS STD	1000UG/ML	O2S1	400 µL	1ML	400 UG/ML	MC
		10/18/2011	4/18/2012		1ml	010811B

11/2/11

EX: 4/24/12

11/2/11

EX: 4/18/12

Organic Extraction Worksheet

Method	THC Separatory Funnel Extraction 3510C	Extraction Set	111031A	Extraction Method	SBP011	Units	mL
Spiked ID 1	Diesel Spike 10/21/11 BX 1/21/12	Surrogate ID 1	THC Surrogate 176405-29339				
Spiked ID 2	Motor Oil Spike 8/5/11 BX 11/5/11	Surrogate ID 2					
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		YES			
Spiked ID 7		Ext. Start Time:					
Spiked ID 8		Ext. End Time:					
			GC Requires Extract By:	11/02/11 0:00			
pH1				Water Bath Temp Criteria		80 °C	
pH2							
pH3							

Spiked By: HW

Date 10/31/2011

Witnessed By: DL

Date 10/31/2011

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	111031A BIK			0.250	1	1000	5	7	10/31/11 15:00	
						equip E-WB5				
2	111031A LCS-1	1	1	0.250	1	1000	5	7	10/31/11 15:00	
						equip E-WB5				
3	111031A LCS-2	1	2	0.250	1	1000	5	7	10/31/11 15:00	
						equip E-WB5				
4	AY49327 AY49327W05			0.250	1	1040	5	7	10/31/11 15:00	66103-1 WEEK RUSH -- Amber Liter
						equip E-WB5				
5	AY49328 AY49328W05			0.250	1	1000	5	7	10/31/11 15:00	66103-1 WEEK RUSH -- Amber Liter
						equip E-WB5				
6	AY49329 AY49329W05			0.250	1	1010	5	7	10/31/11 15:00	66103-1 WEEK RUSH -- Amber Liter
						equip E-WB5				
7	AY49330 AY49330W04			0.250	1	1040	5	7	10/31/11 15:00	66103-1 WEEK RUSH -- Amber Liter
						equip E-WB5				
8	AY49331 AY49331W04			0.250	1	1030	5	7	10/31/11 15:00	66103-1 WEEK RUSH -- Amber Liter
						equip E-WB5				
9	AY49333 AY49333W09			0.250	1	1030	5	7	10/31/11 15:00	66102-2 WEEK RUSH -- Amber Liter
						equip E-WB5				
10	AY49334 MS-1 AY49334W35	1	1	0.250	1	1030	5	7	10/31/11 15:00	66102-2 WEEK RUSH -- Amber Liter
						equip E-WB6				
11	AY49334 MSD-1 AY49334W36	1	1	0.250	1	1030	5	7	10/31/11 15:00	66102-2 WEEK RUSH -- Amber Liter
						equip E-WB6				
12	AY49334 AY49334W32			0.250	1	1030	5	7	10/31/11 15:00	66102-2 WEEK RUSH -- Amber Liter
						equip E-WB5				
13	AY49336 AY49336W09			0.250	1	1050	5	7	10/31/11 15:00	66102-2 WEEK RUSH -- Amber Liter
						equip E-WB6				

Solvent and Lot#	
MC	BMD 51204
Na2SO4	3581C501

Extraction COC Transfer	
Extraction lab employee Initials	HW
GC analyst's Initials	<i>[Signature]</i>
Date	11/20
Time	11:20
Refrigerator	HOB MCT

Technician's Initials	
Scanned By	HW
Sample Preparation	HW
Extraction	HW/CC/DL
Concentration	3L
Modified	10/31/2011 2:12:11 PM

Reviewed By: HW

146

Date 11/1/2011

Organic Extraction Worksheet

Method	THC Separatory Funnel Extraction 3510C	Extraction Set	111031A	Extraction Method	SBP011	Units	mL
Spiked ID 1	Diesel Spike 10/21/11 EX 1/21/12	Surrogate ID 1	THC Surrogate 176405-29339				
Spiked ID 2	Motor Oil Spike 8/5/11 EX 11/5/11	Surrogate ID 2					
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		YBS			
Spiked ID 7		Ext. Start Time:					
Spiked ID 8		Ext. End Time:					
GC Requires Extract By:				11/02/11 0:00			
pH1				Water Bath Temp Criteria 80 °C			
pH2							
pH3							

Spiked By: HW

Date: 10/31/2011

Witnessed By: DL

Date: 10/31/2011

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
14 AY49481	AY49481W10			0.250	1	1040	5	7	10/31/11 15:00	66116-2 WBBK RUSH -- Amber Liter
						equip E-WB6				
15 AY49482	AY49482W10			0.250	1	1040	5	7	10/31/11 15:00	66116-2 WBBK RUSH -- Amber Liter
						equip E-WB6				

This will be

Solvent and Lot#	
MC	BMD 51204
Na2SO4	3581C501

Extraction COC Transfer	
Extraction lab employee Initials	HW
GC analyst's initials	<i>R</i>
Date	11/2/11
Time	11:20
Refrigerator	<i>HW/CC</i>

Technician's Initials	
Scanned By	HW
Sample Preparation	HW
Extraction	HW/CC/DL
Concentration	JL
Modified	10/31/2011 2:12:11 PM

Reviewed By: HW **Date:** 11/1/2011

Injection Log

Directory: G:\APOLLO\DATA\111028\111106\111108\111115\111129

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	3	1028003.D	1	DIESEL 10/1000 10/28/11	Mix(A)	10-28-11 9:47:18
2	4	1028004.D	1	DIESEL 100/1000	Mix(A)	10-28-11 10:11:19
3	5	1028005.D	1	DIESEL 400/1000	Mix(A)	10-28-11 10:35:26
4	6	1028006.D	1	DIESEL 600/1000	Mix(A)	10-28-11 10:59:35
5	7	1028007.D	1	DIESEL 800/1000	Mix(A)	10-28-11 11:23:49
6	8	1028008.D	1	DIESEL 1000/1000	Mix(A)	10-28-11 11:48:05
7	9	1028009.D	1	MOTOR OIL 50/1000 10/28/11	Mix(B)	10-28-11 12:12:27
8	10	1028010.D	1	MOTOR OIL 100/1000	Mix(B)	10-28-11 12:36:20
9	11	1028011.D	1	MOTOR OIL 400/1000	Mix(B)	10-28-11 13:00:16
10	12	1028012.D	1	MOTOR OIL 600/1000	Mix(B)	10-28-11 13:24:39
11	13	1028013.D	1	MOTOR OIL 800/1000	Mix(B)	10-28-11 13:48:43
12	14	1028014.D	1	MOTOR OIL 1000/1000	Mix(B)	10-28-11 14:13:14
13	15	1028015.D	1	DIESEL 2ND SRC 10/28/11	Mix(A)	10-28-11 14:37:14
14	16	1028016.D	1	THC SURR 10/1000 10/28/11	Mix(C)	10-28-11 15:01:44
15	17	1028017.D	1	THC SURR 100/1000	Mix(C)	10-28-11 15:25:58
16	18	1028018.D	1	THC SURR 400/1000	Mix(C)	10-28-11 15:50:20
17	19	1028019.D	1	THC SURR 600/1000	Mix(C)	10-28-11 16:14:52
18	20	1028020.D	1	THC SURR 800/1000	Mix(C)	10-28-11 16:38:57
19	21	1028021.D	1	THC SURR 1000/1000	Mix(C)	10-28-11 17:03:06
20	3	1106003.D	1	DIESEL 400/1000 10/28/11	Mix(A)	11-6-11 16:34:49
21	5	1106005.D	5	111031A BLK 5/1000	Water	11-6-11 17:22:09
22	17	1106017.D	1	DIESEL 400/1000 11/2/11	Mix(A)	11-6-11 22:03:47
23	20	1106020.D	4.80769	AY49481W10 5/1040	Water	11-6-11 23:13:41
24	21	1106021.D	4.80769	AY49482W10 5/1040	Water	11-6-11 23:36:56
25	27	1106027.D	1	DIESEL 400/1000 11/2/11	Mix(A)	11-7-11 1:56:08
26	5	1108005.D	1	DIESEL 100/1000	Mix(A)	11-8-11 15:50:59
27	6	1108006.D	1	DIESEL 400/1000	Mix(A)	11-8-11 16:14:36
28	7	1108007.D	1	DIESEL 600/1000	Mix(A)	11-8-11 16:38:14
29	8	1108008.D	1	DIESEL 800/1000	Mix(A)	11-8-11 17:01:53
30	9	1108009.D	1	DIESEL 1000/1000	Mix(A)	11-8-11 17:25:32
31	11	1108011.D	1	MOTOR OIL 50/1000 11/8/11	Mix(B)	11-8-11 18:12:45
32	12	1108012.D	1	MOTOR OIL 100/1000	Mix(B)	11-8-11 18:36:14
33	13	1108013.D	1	MOTOR OIL 400/1000	Mix(B)	11-8-11 18:59:47
34	14	1108014.D	1	MOTOR OIL 600/1000	Mix(B)	11-8-11 19:23:20
35	15	1108015.D	1	MOTOR OIL 800/1000	Mix(B)	11-8-11 19:46:53
36	16	1108016.D	1	MOTOR OIL 1000/1000	Mix(B)	11-8-11 20:10:21
37	69	1108069.D	1	DIESEL 10/1000 11/8/11	Mix(A)	11-9-11 17:18:58
38	70	1108070.D	1	DIESEL 400 2ND SRC 11/8/11	Mix(A)	11-9-11 17:42:38
39	21	1115021.D	1	THC SURR 10/1000 11/15/11	Mix(C)	11-15-11 18:21:35
40	22	1115022.D	1	THC SURR 100/1000	Mix(C)	11-15-11 18:45:31
41	23	1115023.D	1	THC SURR 400/1000	Mix(C)	11-15-11 19:09:25
42	24	1115024.D	1	THC SURR 600/1000	Mix(C)	11-15-11 19:33:17
43	25	1115025.D	1	THC SURR 800/1000	Mix(C)	11-15-11 19:57:06
44	26	1115026.D	1	THC SURR 1000/1000	Mix(C)	11-15-11 20:20:52
45	12	1129012.D	1	DIESEL 400/1000 11/29/11	Mix(A)	11-29-11 13:06:20
46	17	1129017.D	5	111031A LCS-1 5/1000	Water	11-29-11 18:45:15
47	24	1129024.D	1	DIESEL 400/1000 11/29/11	Mix(A)	11-29-11 21:29:15

EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons

EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
QC Summary

Method Blank
EPA 8270D SIM

Blank Name/QCG: **111031W-49334 - 161019**
Batch ID: #SIMHC-111031A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
BLANK	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
BLANK	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
BLANK	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
BLANK	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/05/11
BLANK	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/05/11
BLANK	BENZO(A)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/05/11
BLANK	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
BLANK	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	10/31/11	11/05/11
BLANK	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/05/11
BLANK	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/05/11
BLANK	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/05/11
BLANK	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	10/31/11	11/05/11
BLANK	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
BLANK	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/05/11
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/05/11
BLANK	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/05/11
BLANK	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	10/31/11	11/05/11
BLANK	SURROGATE: 2-FLUORBIPHENY	51.7	50-110			%	10/31/11	11/05/11
BLANK	SURROGATE: NITROBENZENE-	66.3	40-110			%	10/31/11	11/05/11
BLANK	SURROGATE: TERPHENYL-D14 (	54.5	50-135			%	10/31/11	11/05/11

Quant Method:SIM2.M
Run #:1105L028
Instrument:Linus
Sequence:L111027
Initials:LF

GC SC-Blank-REG MDLs
Printed: 11/09/11 4:07:14 PM

Surrogate Recovery

Lab Name: APPL, Inc.
 Case No: 66116
 Matrix: WATER

SDG No: 66116
 Date Analyzed: 11/05/11
 Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: 2-FLUORBIPHENYL (S)			SURROGATE: NITROBENZENE-D5 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
111031A-BLK	Blank	50-110	51.7		40-110	66.3	
111031A-LCS	Lab Control Spike	50-110	55.5		40-110	57.0	
AY49481	ES050	50-110	64.9		40-110	62.7	
AY49482	ES051	50-110	60.2		40-110	58.1	

Comments: Batch: #SIMHC-111031A

Surrogate Recovery

Lab Name: APPL, Inc.
Case No: 66116
Matrix: WATER

SDG No: 66116
Date Analyzed: 11/05/11
Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: TERPHENYL-D14 (S)					
		Limits	Result	Qualifier	Limits	Result	Qualifier
111031A-BLK	Blank	50-135	54.5				
111031A-LCS	Lab Control Spike	50-135	53.0				
AY49481	ES050	50-135	62.6				
AY49482	ES051	50-135	55.4				

Comments: Batch: #SIMHC-111031A

Laboratory Control Spike Recovery

EPA 8270D SIM

APPL ID: 111031W-49334 LCS - 161019
 Batch ID: #SIMHC-111031A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1-METHYLNAPHTHALENE	4.00	2.25	56.3	45-105
2-METHYLNAPHTHALENE	4.00	2.26	56.5	45-105
ACENAPHTHENE	4.00	2.55	63.7	45-110
ACENAPHTHYLENE	4.00	2.39	59.8	50-105
ANTHRACENE	4.00	2.47	61.8	55-110
BENZO(A)ANTHRACENE	4.00	2.74	68.5	55-110
BENZO(A)PYRENE	4.00	2.48	62.0	55-110
BENZO(B)FLUORANTHENE	4.00	2.43	60.8	45-120
BENZO(GHI)PERYLENE	4.00	2.80	70.0	40-125
BENZO(K)FLUORANTHENE	4.00	3.23	80.8	45-125
CHRYSENE	4.00	2.86	71.5	55-110
DIBENZ(A,H)ANTHRACENE	4.00	2.89	72.3	40-125
FLUORANTHENE	4.00	2.86	71.5	55-115
FLUORENE	4.00	2.59	64.8	50-110
INDENO(1,2,3-CD)PYRENE	4.00	2.95	73.8	45-125
NAPHTHALENE	4.00	2.30	57.5	40-100
PHENANTHRENE	4.00	2.43	60.8	50-115
PYRENE	4.00	2.57	64.3	50-130

SURROGATE: 2-FLUORBIPHENYL (S)	2.00	1.11	55.5	50-110
SURROGATE: NITROBENZENE-D5 (S)	2.00	1.14	57.0	40-110
SURROGATE: TERPHENYL-D14 (S)	2.00	1.06	53.0	50-135

Comments: _____

<u>Primary</u>	<u>SPK</u>
Quant Method :	SIM2.M
Extraction Date :	10/31/11
Analysis Date :	11/05/11
Instrument :	Linus
Run :	1105L029
Initials :	LF

Printed: 11/09/11 4:07:21 PM

APPL Standard LCS

8270D-SIM

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 66116

Case No: 66116

Date Analyzed: 11/05/11

Matrix: WATER

Instrument: Linus

Blank ID: 111031A-BLK

Time Analyzed: 2015

APPL ID.	Client Sample No.	File ID.	Date Analyzed
111031A-BLK	Blank	1105L028	11/05/11 2015
111031A-LCS	Lab Control Spike	1105L029	11/05/11 2041
AY49481	ES050	1105L040	11/06/11 0116
AY49482	ES051	1105L041	11/06/11 0141

Comments: Batch: #SIMHC-111031A

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 66116
 Matrix: Water
 ID: SVTUNE 10-27-11

SDG No: 66116
 Date Analyzed: 11/05/11
 Instrument: Linus
 Time Analyzed: 16:36

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	Blank	111031A BLK 1/1000	1105L028.D	11/05/11 20:15
2	Lab Control Spike	111031A LCS-1 1/1000	1105L029.D	11/05/11 20:41
3	ES050	AY49481W08 1/1050	1105L040.D	11/06/11 1:16
4	ES051	AY49482W08 1/1030	1105L041.D	11/06/11 1:41
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

m/e

51 29.95 - 60% of mass 198	<u>59.0</u>
68 0 - 2.05% of mass 69	<u>0.0</u>
70 0 - 2% of mass 69	<u>0.6</u>
127 40 - 60% of mass 198	<u>55.1</u>
197 0 - 1% of mass 198	<u>0.5</u>
198 100 - 100% of mass 198	<u>100.0</u>
199 5 - 9% of mass 198	<u>7.1</u>
275 10 - 30% of mass 198	<u>23.2</u>
365 1 - 100% of mass 198	<u>1.9</u>
441 0.01 - 100% of mass 443	<u>73.0</u>
442 40 - 150% of mass 198	<u>58.8</u>
443 17 - 23% of mass 442	<u>19.7</u>

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 66116
 Lab File ID (Standard): 1028L007.D Date Analyzed: 10/28/11
 Instrument ID: Linus Time Analyzed: 11:58
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		Naphthalene-D8(IS)		Acenaphthene-D10(IS)		Phenanthrene-D10(IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		2479	6.12	1083	8.11	1851	9.85
UPPER LIMIT		4958	6.62	2166	8.61	3702	10.35
LOWER LIMIT		1240	5.62	542	7.61	926	9.35
SAMPLE NO.							
01	111031A BLK 1/1000	2305	6.12	1068	8.11	2122	9.86
02	111031A LCS-1 1/1000	2079	6.12	961	8.11	1713	9.85
03	AY49481W08 1/1050	2359	6.12	1092	8.11	1918	9.86
04	AY49482W08 1/1030	2269	6.12	1051	8.11	1920	9.86
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 66116
 Lab File ID (Standard): 1028L007.D Date Analyzed: 10/28/11
 Instrument ID: Linus Time Analyzed: 11:58
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		Chrysene-D12(IS)		Perylene-D12(IS)			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	2378	12.93	1871	14.56		
	UPPER LIMIT	4756	13.43	3742	15.06		
	LOWER LIMIT	1189	12.43	936	14.06		
	SAMPLE NO.						
01	111031A BLK 1/1000	2454	12.94	2143	14.57		
02	111031A LCS-1 1/1000	2367	12.93	2017	14.56		
03	AY49481W08 1/1050	2442	12.95	2190	14.58		
04	AY49482W08 1/1030	2492	12.95	2214	14.58		
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Sample Data

EPA 8270D SIM

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

Attn: Stacey Fineran
Project: RED HILL/1022-024

Sample ID: ES050
Sample Collection Date: 10/25/11

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 66116
APPL ID: AY49481
QCG: #SIMHC-111031A-161019

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/06/11
8270D-SIM	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/06/11
8270D-SIM	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/06/11
8270D-SIM	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/06/11
8270D-SIM	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/06/11
8270D-SIM	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/06/11
8270D-SIM	BENZO(A)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/06/11
8270D-SIM	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/06/11
8270D-SIM	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	10/31/11	11/06/11
8270D-SIM	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/06/11
8270D-SIM	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/06/11
8270D-SIM	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/06/11
8270D-SIM	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	10/31/11	11/06/11
8270D-SIM	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/06/11
8270D-SIM	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/06/11
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/06/11
8270D-SIM	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/06/11
8270D-SIM	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	10/31/11	11/06/11
8270D-SIM	SURROGATE: 2-FLUORBIPHENYL (S)	64.9	50-110			%	10/31/11	11/06/11
8270D-SIM	SURROGATE: NITROBENZENE-D5 (S)	62.7	40-110			%	10/31/11	11/06/11
8270D-SIM	SURROGATE: TERPHENYL-D14 (S)	62.6	50-135			%	10/31/11	11/06/11

Quant Method: SIM2.M
Run #: 1105L040
Instrument: Linus
Sequence: L111027
Dilution Factor: 1
Initials: LF

Printed: 11/09/11 4:07:29 PM

APPL-F1-SC-NoMC-REG MDLs

Data File : M:\LINUS\DATA\L111027\1105L040.D Vial: 40
 Acq On : 6 Nov 11 1:16 Operator: LF
 Sample : AY49481W08 1/1050 Inst : Linus
 Misc : Multiplr: 0.95

Quant Time: Nov 9 9:21 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Nov 02 15:56:51 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	6.12	136	2359	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	8.11	164	1092	2.50000	ppb	0.00
11) Phenanthrene-D10 (IS)	9.86	188	1918	2.50000	ppb	0.01
15) Chrysene-D12 (IS)	12.95	240	2442	2.50000	ppb	0.02
21) Perylene-D12 (IS)	14.58	264	2190	2.50000	ppb	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	5.44	82	530	1.19474	ppb	0.00
Spiked Amount	1.905					
Recovery				=	62.738%	
7) Surrogate Recovery (FBP)	7.36	172	1264	1.23661	ppb	0.01
Spiked Amount	1.905					
Recovery				=	64.943%	
17) Surrogate Recovery (TPH)	11.71	244	1317	1.19283	ppb	0.00
Spiked Amount	1.905					
Recovery				=	62.633%	

Target Compounds Qvalue

Quantitation Report

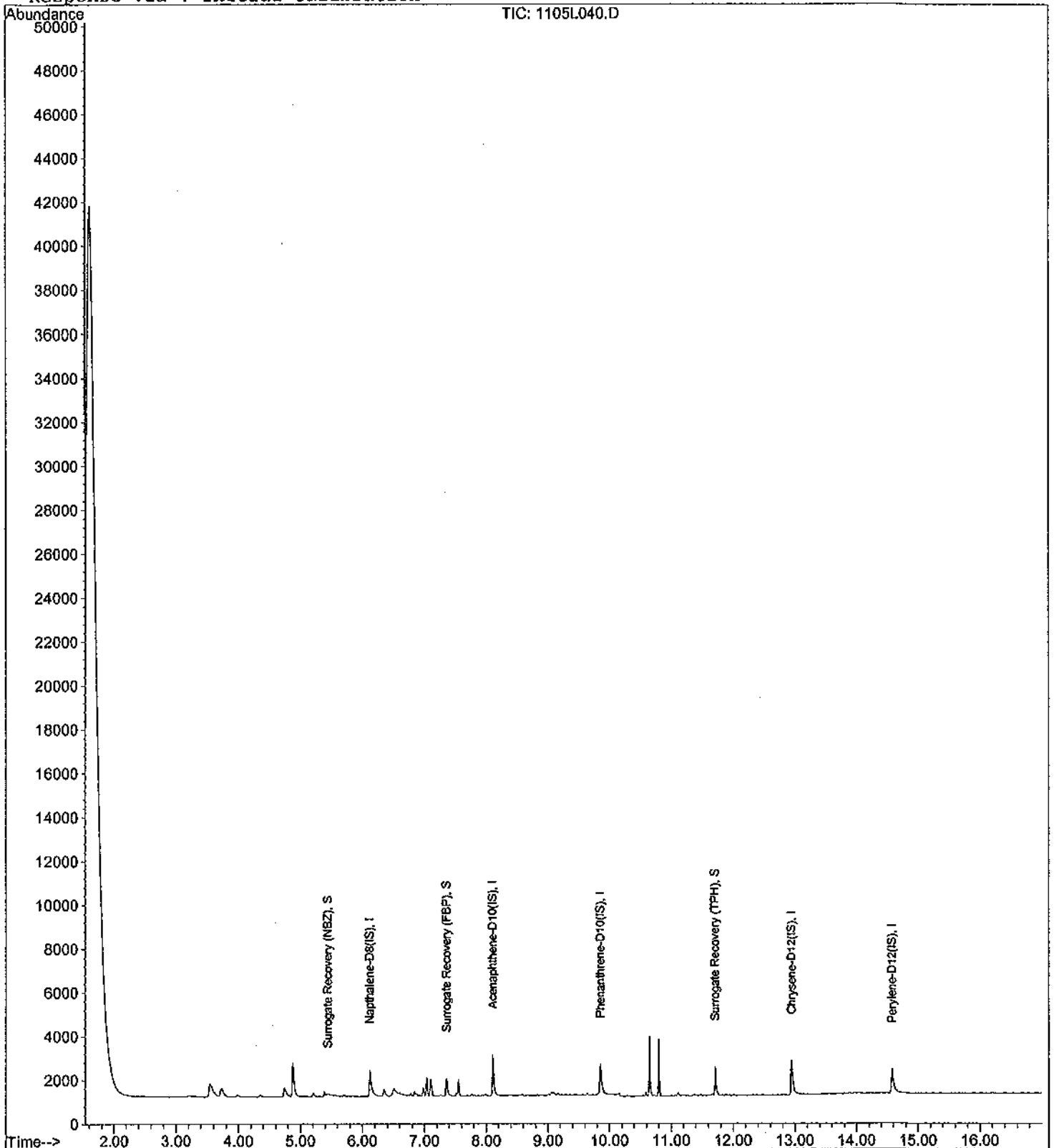
Data File : M:\LINUS\DATA\L111027\1105L040.D
Acq On : 6 Nov 11 1:16
Sample : AY49481W08 1/1050
Misc :

Vial: 40
Operator: LF
Inst : Linus
Multiplr: 0.95

Quant Time: Nov 9 9:21 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 08 16:22:04 2011
Response via : Initial Calibration



EPA 8270D SIM

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

Attn: Stacey Fineran
Project: RED HILL/1022-024

Sample ID: ES051
Sample Collection Date: 10/25/11

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 66116
APPL ID: AY49482
QCG: #SIMHC-111031A-161019

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/06/11
8270D-SIM	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/06/11
8270D-SIM	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/06/11
8270D-SIM	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/06/11
8270D-SIM	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/06/11
8270D-SIM	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/06/11
8270D-SIM	BENZO(A)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/06/11
8270D-SIM	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/06/11
8270D-SIM	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	10/31/11	11/06/11
8270D-SIM	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/06/11
8270D-SIM	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/06/11
8270D-SIM	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/06/11
8270D-SIM	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	10/31/11	11/06/11
8270D-SIM	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/06/11
8270D-SIM	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/06/11
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/06/11
8270D-SIM	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/06/11
8270D-SIM	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	10/31/11	11/06/11
8270D-SIM	SURROGATE: 2-FLUORBIPHENYL (S)	60.2	50-110			%	10/31/11	11/06/11
8270D-SIM	SURROGATE: NITROBENZENE-D5 (S)	58.1	40-110			%	10/31/11	11/06/11
8270D-SIM	SURROGATE: TERPHENYL-D14 (S)	55.4	50-135			%	10/31/11	11/06/11

Quant Method: SIM2.M
Run #: 1105L041
Instrument: Linus
Sequence: L111027
Dilution Factor: 1
Initials: LF

Printed: 11/09/11 4:07:29 PM
APPL-F1-SC-NoMC-REG MDLs

Data File : M:\LINUS\DATA\L111027\1105L041.D
 Acq On : 6 Nov 11 1:41
 Sample : AY49482W08 1/1030
 Misc :

Vial: 41
 Operator: LF
 Inst : Linus
 Multiplr: 0.97

Quant Time: Nov 9 9:22 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Nov 02 15:56:51 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	6.12	136	2269	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	8.11	164	1051	2.50000	ppb	0.00
11) Phenanthrene-D10 (IS)	9.86	188	1920	2.50000	ppb	0.01
15) Chrysene-D12 (IS)	12.95	240	2492	2.50000	ppb	0.02
21) Perylene-D12 (IS)	14.58	264	2214	2.50000	ppb	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	5.46	82	472	1.12767	ppb	0.01
Spiked Amount	1.942					
			Recovery	=	58.092%	
7) Surrogate Recovery (FBP)	7.36	172	1127	1.16783	ppb	0.01
Spiked Amount	1.942					
			Recovery	=	60.152%	
17) Surrogate Recovery (TPH)	11.71	244	1188	1.07487	ppb	0.00
Spiked Amount	1.942					
			Recovery	=	55.362%	

Target Compounds

Qvalue

Quantitation Report

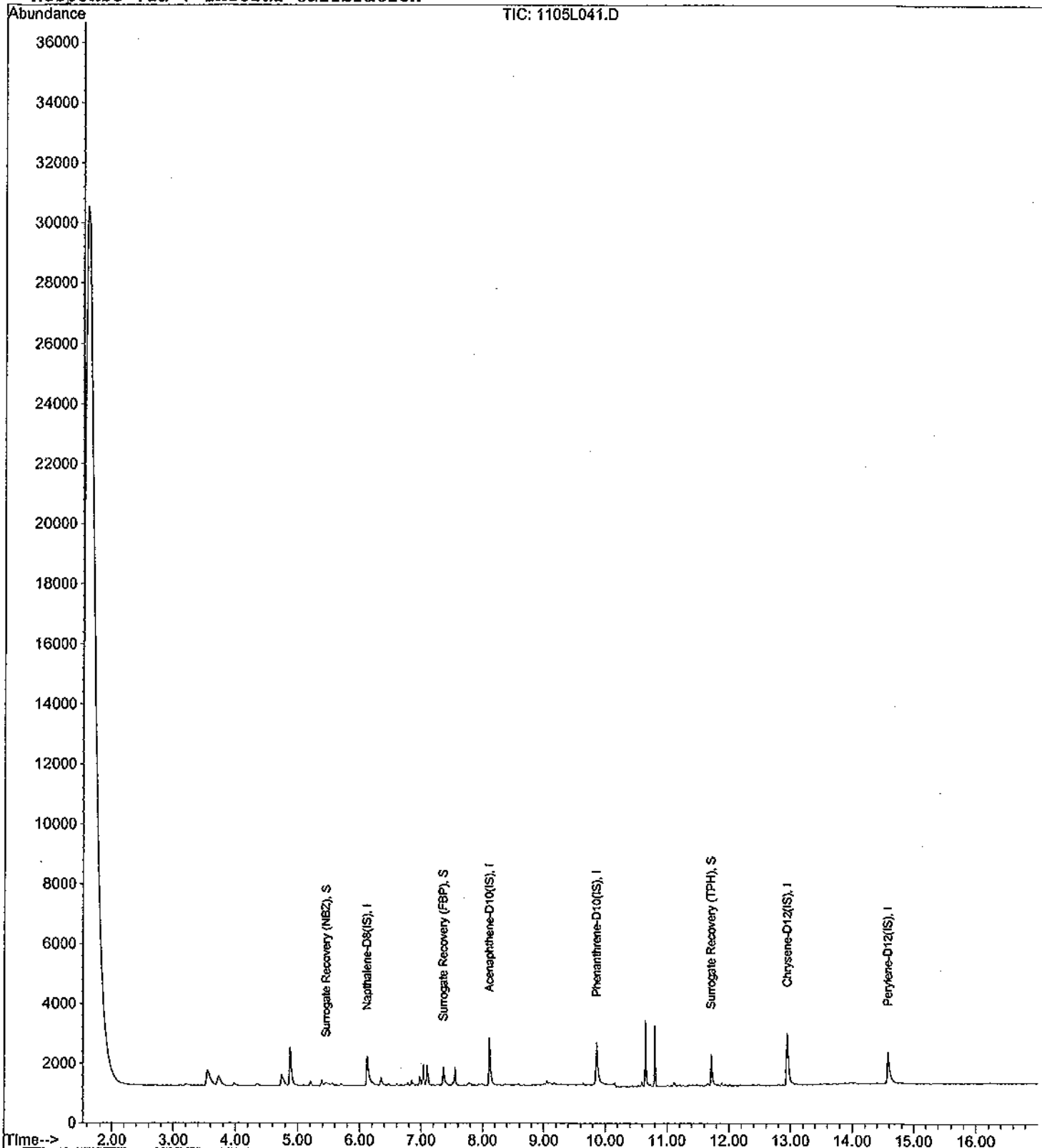
Data File : M:\LINUS\DATA\L111027\1105L041.D
Acq On : 6 Nov 11 1:41
Sample : AY49482W08 1/1030
Misc :

Vial: 41
Operator: LF
Inst : Linus
Multiplr: 0.97

Quant Time: Nov 9 9:22 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 08 16:22:04 2011
Response via : Initial Calibration



EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Calibration Data

Data File : M:\LINUS\DATA\L111027\1027L003.D
 Acq On : 27 Oct 11 19:12
 Sample : 0.1ug/ml PAH 10-27-11
 Misc :

Vial: 3
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 11:15 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 30 10:57:42 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	6.14	136	2908	2.50000	ppb	0.02
6) Acenaphthene-D10 (IS)	8.12	164	1434	2.50000	ppb	0.01
11) Phenanthrene-D10 (IS)	9.87	188	2391	2.50000	ppb	0.02
15) Chrysene-D12 (IS)	12.95	240	2986	2.50000	ppb	0.02
21) Perylene-D12 (IS)	14.58	264	2411	2.50000	ppb	0.02

System Monitoring Compounds

2) Surrogate Recovery (NBZ)	5.61	82	48	0.74306	ppb	0.19
Spiked Amount	2.000		Recovery	=	37.150%	
7) Surrogate Recovery (FBP)	7.40	172	130	0.09815	ppb	0.05
Spiked Amount	2.000		Recovery	=	4.900%	
17) Surrogate Recovery (TPH)	11.74	244	137	0.09107	ppb	0.02
Spiked Amount	2.000		Recovery	=	4.550%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	6.17	128	215	0.10425	ppb	93
4) 2-Methylnaphthalene	7.01	142	97	0.09198	ppb	99
5) 1-Methylnaphthalene	7.08	142	117	0.09071	ppb	97
8) Acenaphthylene	7.99	152	204	0.10524	ppb	99
9) Acenaphthene	8.16	154	126	0.11351	ppb	94
10) Fluorene	8.81	166	125	0.10297	ppb	98
12) Phenanthrene	9.90	178	177	0.11216	ppb	95
13) Anthracene	9.99	178	166	0.10145	ppb	95
14) Fluoranthene	11.30	202	298	0.10883	ppb #	90
16) Pyrene	11.56	202	303	0.11040	ppb	99
18) Benz (a) anthracene	12.95	228	211	0.11702	ppb	96
19) Chrysene	12.98	228	255	0.09385	ppb	98
20) Indeno (1,2,3-cd) pyrene	16.19	276	218	0.11665	ppb #	93
22) Benzo (b) fluoranthene	14.15	252	165	0.09422	ppb #	95
23) Benzo (k) fluoranthene	14.19	252	206	0.11693	ppb	65
24) Benzo (a) pyrene	14.54	252	193	0.11081	ppb	95
25) Dibenz (a,h) anthracene	16.17	278	171	0.11827	ppb	92
26) Benzo (g,h,i) perylene	16.64	276	136	0.08955	ppb #	89

Quantitation Report

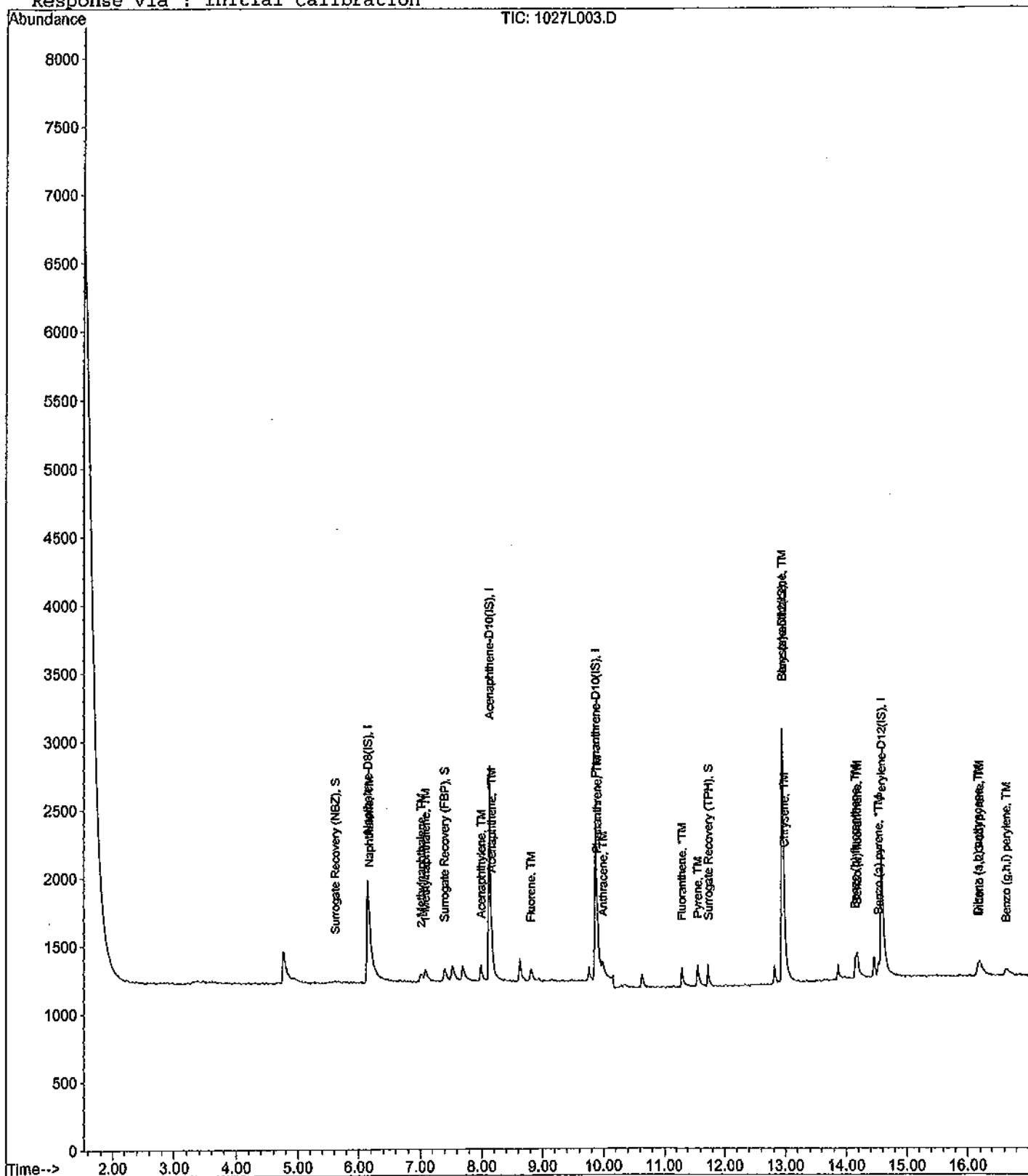
Data File : M:\LINUS\DATA\L111027\1027L003.D
 Acq On : 27 Oct 11 19:12
 Sample : 0.1ug/ml PAH 10-27-11
 Misc :

Vial: 3
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 11:15 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Nov 01 17:14:29 2011
 Response via : Initial Calibration



Data File : M:\LINUS\DATA\L111027\1027L004.D
 Acq On : 27 Oct 11 19:38
 Sample : 0.2ug/ml PAH
 Misc :

Vial: 4
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 11:13 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 30 10:57:42 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	6.14	136	2862	2.50000	ppb	0.02
6) Acenaphthene-D10 (IS)	8.12	164	1317	2.50000	ppb	0.01
11) Phenanthrene-D10 (IS)	9.87	188	2305	2.50000	ppb	0.02
15) Chrysene-D12 (IS)	12.95	240	2814	2.50000	ppb	0.02
21) Perylene-D12 (IS)	14.58	264	2323	2.50000	ppb	0.02
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.60	82	107	0.84083	ppb	0.18
Spiked Amount	2.000		Recovery	=	42.050%	
7) Surrogate Recovery (FBP)	7.40	172	250	0.20995	ppb	0.05
Spiked Amount	2.000		Recovery	=	10.500%	
17) Surrogate Recovery (TPH)	11.72	244	260	0.18421	ppb	0.01
Spiked Amount	2.000		Recovery	=	9.200%	
Target Compounds						
3) Naphthalene	6.17	128	470	0.23025	ppb	94
4) 2-Methylnaphthalene	7.00	142	193	0.18513	ppb	92
5) 1-Methylnaphthalene	7.07	142	261	0.20451	ppb	98
8) Acenaphthylene	7.99	152	366	0.20677	ppb	98
9) Acenaphthene	8.16	154	211	0.20826	ppb	87
10) Fluorene	8.81	166	232	0.20927	ppb	99
12) Phenanthrene	9.90	178	308	0.20239	ppb	96
13) Anthracene	9.99	178	310	0.19992	ppb	95
14) Fluoranthene	11.29	202	554	0.20981	ppb	95
16) Pyrene	11.55	202	542	0.21034	ppb	# 91
18) Benz (a) anthracene	12.95	228	323	0.19084	ppb	97
19) Chrysene	12.98	228	465	0.18296	ppb	99
20) Indeno (1,2,3-cd) pyrene	16.17	276	342	0.19494	ppb	# 96
22) Benzo (b) fluoranthene	14.15	252	307	0.18266	ppb	97
23) Benzo (k) fluoranthene	14.19	252	334	0.18857	ppb	64
24) Benzo (a) pyrene	14.54	252	353	0.21468	ppb	96
25) Dibenz (a,h) anthracene	16.16	278	293	0.21252	ppb	92
26) Benzo (g,h,i) perylene	16.64	276	326	0.22362	ppb	88

Quantitation Report

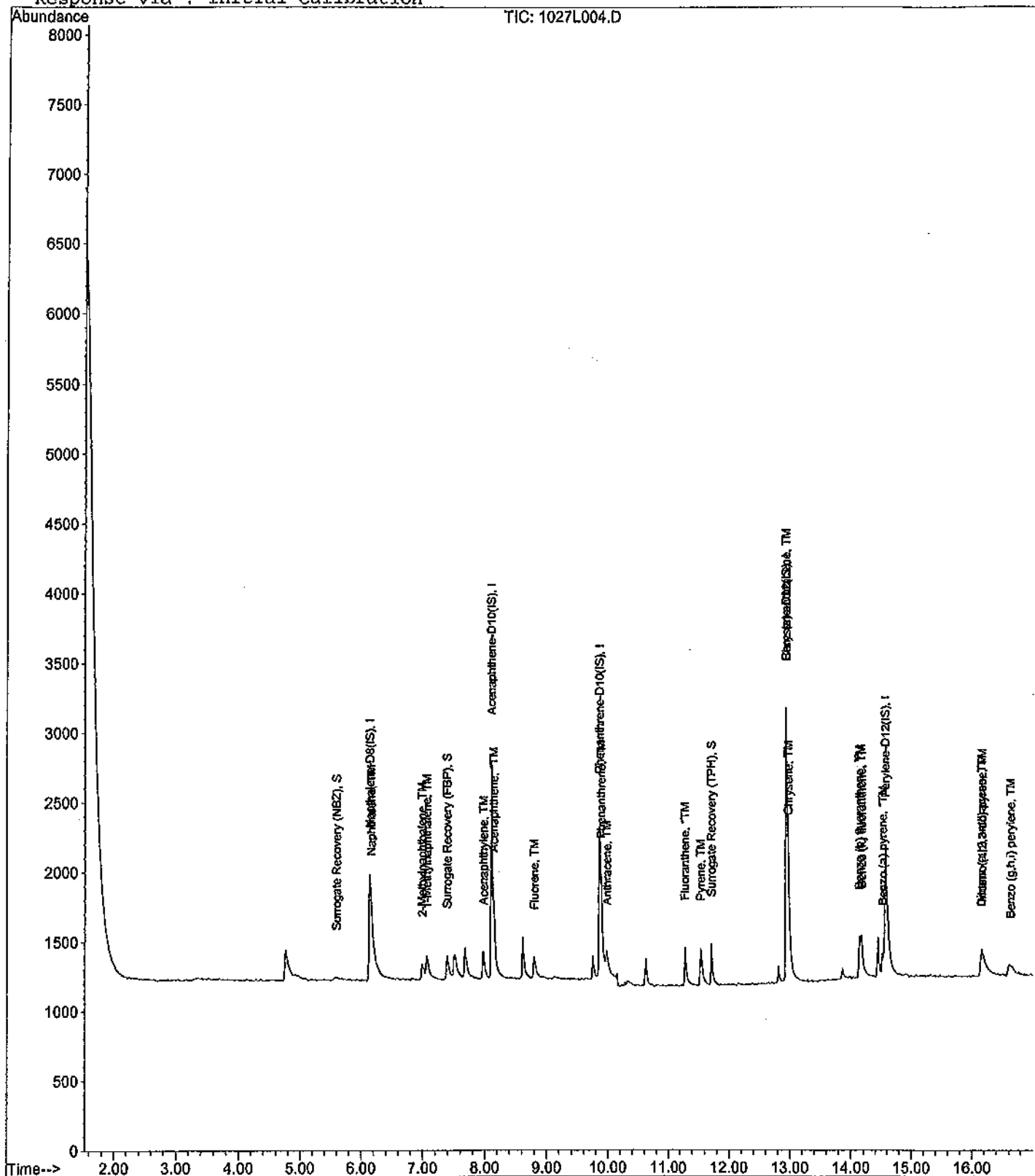
Data File : M:\LINUS\DATA\L111027\1027L004.D
 Acq On : 27 Oct 11 19:38
 Sample : 0.2ug/ml PAH
 Misc :

Vial: 4
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 11:13 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Nov 01 17:14:29 2011
 Response via : Initial Calibration



Data File : M:\LINUS\DATA\L111027\1028L005.D
 Acq On : 28 Oct 11 11:07
 Sample : 0.5ug/ml PAH
 Misc :

Vial: 5
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 11:12 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Sep 29 11:47:40 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	6.14	136	2409	2.50000	ppb	0.02
6) Acenaphthene-D10 (IS)	8.12	164	1104	2.50000	ppb	-0.01
11) Phenanthrene-D10 (IS)	9.87	188	1819	2.50000	ppb	0.00
15) Chrysene-D12 (IS)	12.95	240	2477	2.50000	ppb	-0.01
21) Perylene-D12 (IS)	14.57	264	2043	2.50000	ppb	-0.02
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.60	82	240	1.15802	ppb	0.25
Spiked Amount	2.000		Recovery	=	57.900%	
7) Surrogate Recovery (FBP)	7.39	172	547	0.79241	ppb	0.01
Spiked Amount	2.000		Recovery	=	39.600%	
17) Surrogate Recovery (TPH)	11.74	244	530	0.66674	ppb	-0.02
Spiked Amount	2.000		Recovery	=	33.350%	
Target Compounds						
3) Napthalene	6.17	128	914	0.46769	ppb	98
4) 2-Methylnapthalene	6.99	142	390	0.33945	ppb	96
5) 1-Methylnapthalene	7.06	142	543	0.44086	ppb	95
8) Acenaphthylene	7.98	152	766	0.43771	ppb	99
9) Acenaphthene	8.16	154	445	0.43164	ppb	89
10) Fluorene	8.80	166	496	0.42124	ppb	99
12) Phenanthrene	9.90	178	642	0.38630	ppb	97
13) Anthracene	9.98	178	680	0.37229	ppb	95
14) Fluoranthene	11.29	202	1109	0.36672	ppb	96
16) Pyrene	11.55	202	1135	0.35574	ppb	97
18) Benz (a) anthracene	12.95	228	616	0.34309	ppb	98
19) Chrysene	12.98	228	1009	0.43128	ppb	99
20) Indeno (1,2,3-cd) pyrene	16.15	276	636	0.45186	ppb	# 96
22) Benzo (b) fluoranthene	14.14	252	746	0.48527	ppb	98
23) Benzo (k) fluoranthene	14.17	252	769	0.37285	ppb	98
24) Benzo (a) pyrene	14.52	252	674	0.41516	ppb	94
25) Dibenz (a,h) anthracene	16.14	278	480	0.46345	ppb	95
26) Benzo (g,h,i) perylene	16.59	276	614	0.46797	ppb	92

Quantitation Report

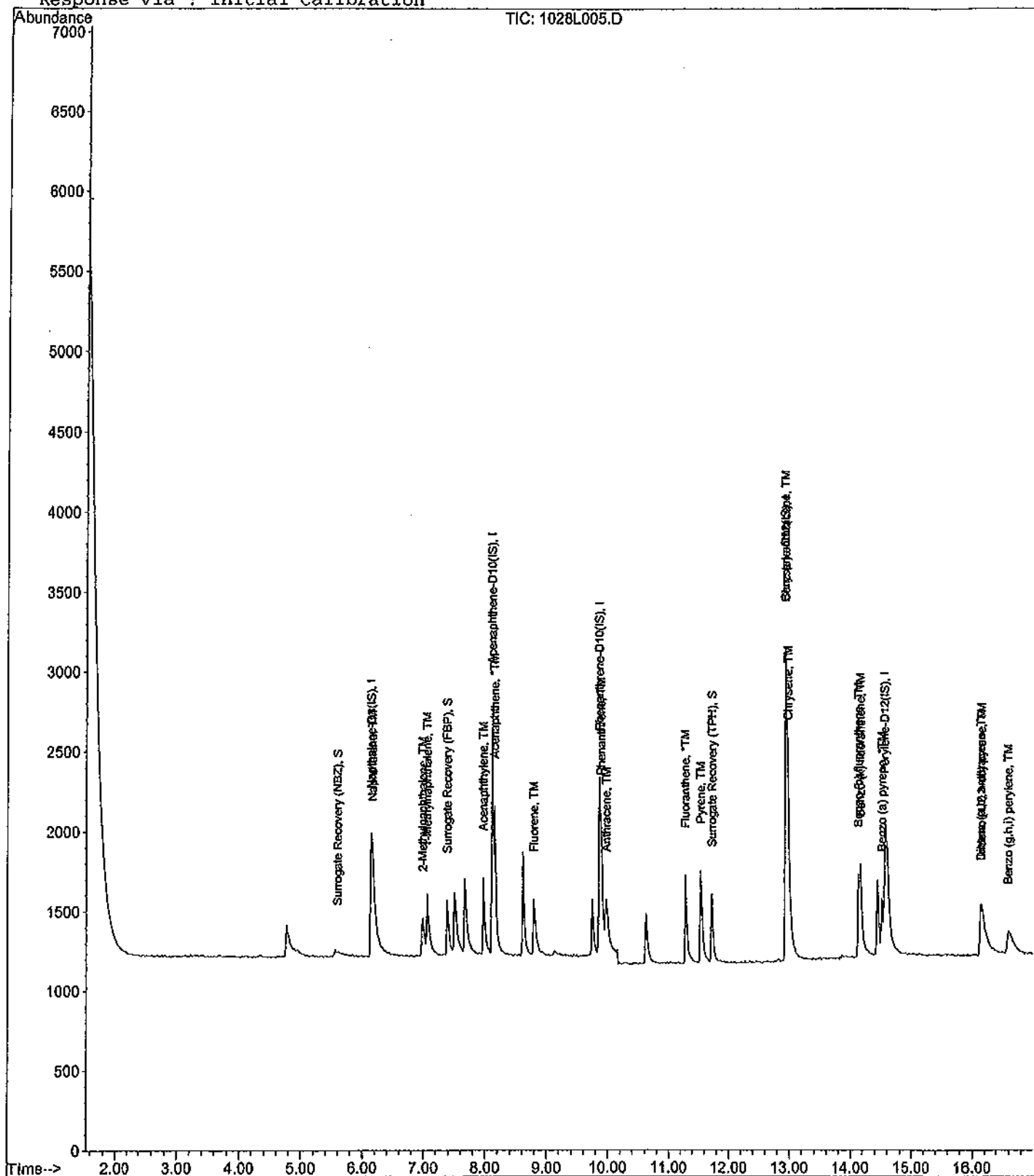
Data File : M:\LINUS\DATA\L111027\1028L005.D
Acq On : 28 Oct 11 11:07
Sample : 0.5ug/ml PAH
Misc :

Vial: 5
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 11:12 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 01 17:14:29 2011
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L111027\1028L006.D
 Acq On : 28 Oct 11 11:32
 Sample : 1.0ug/ml PAH
 Misc :

Vial: 6
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 11:10 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 30 10:38:04 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	6.13	136	2381	2.50000	ppb	0.01
6) Acenaphthene-D10 (IS)	8.12	164	1089	2.50000	ppb	-0.01
11) Phenanthrene-D10 (IS)	9.86	188	1865	2.50000	ppb	-0.01
15) Chrysene-D12 (IS)	12.95	240	2449	2.50000	ppb	-0.01
21) Perylene-D12 (IS)	14.57	264	2032	2.50000	ppb	-0.02
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.54	82	437	1.90266	ppb	0.00
Spiked Amount	2.000		Recovery	=	95.150%	
7) Surrogate Recovery (FBP)	7.37	172	1135	1.66686	ppb	0.00
Spiked Amount	2.000		Recovery	=	83.350%	
17) Surrogate Recovery (TPH)	11.72	244	1210	1.53959	ppb	-0.04
Spiked Amount	2.000		Recovery	=	77.000%	
Target Compounds						
3) Naphthalene	6.16	128	1881	0.97382	ppb	98
4) 2-Methylnaphthalene	6.96	142	916	0.80665	ppb	94
5) 1-Methylnaphthalene	7.05	142	1202	0.98738	ppb	89
8) Acenaphthylene	7.96	152	1632	0.94540	ppb	98
9) Acenaphthene	8.16	154	938	0.92237	ppb	91
10) Fluorene	8.79	166	1027	0.88422	ppb	98
12) Phenanthrene	9.90	178	1324	0.77703	ppb	99
13) Anthracene	9.97	178	1377	0.73529	ppb	98
14) Fluoranthene	11.28	202	2277	0.73437	ppb	# 94
16) Pyrene	11.54	202	2363	0.74909	ppb	97
18) Benz (a) anthracene	12.94	228	1529	0.86133	ppb	99
19) Chrysene	12.97	228	2071	0.89534	ppb	99
20) Indeno (1,2,3-cd) pyrene	16.12	276	1501	1.07861	ppb	# 92
22) Benzo (b) fluoranthene	14.13	252	1509	0.98690	ppb	# 96
23) Benzo (k) fluoranthene	14.16	252	1507	0.73463	ppb	96
24) Benzo (a) pyrene	14.51	252	1370	0.84844	ppb	98
25) Dibenz (a,h) anthracene	16.12	278	1169	1.13481	ppb	97
26) Benzo (g,h,i) perylene	16.58	276	1332	1.02070	ppb	98

Quantitation Report

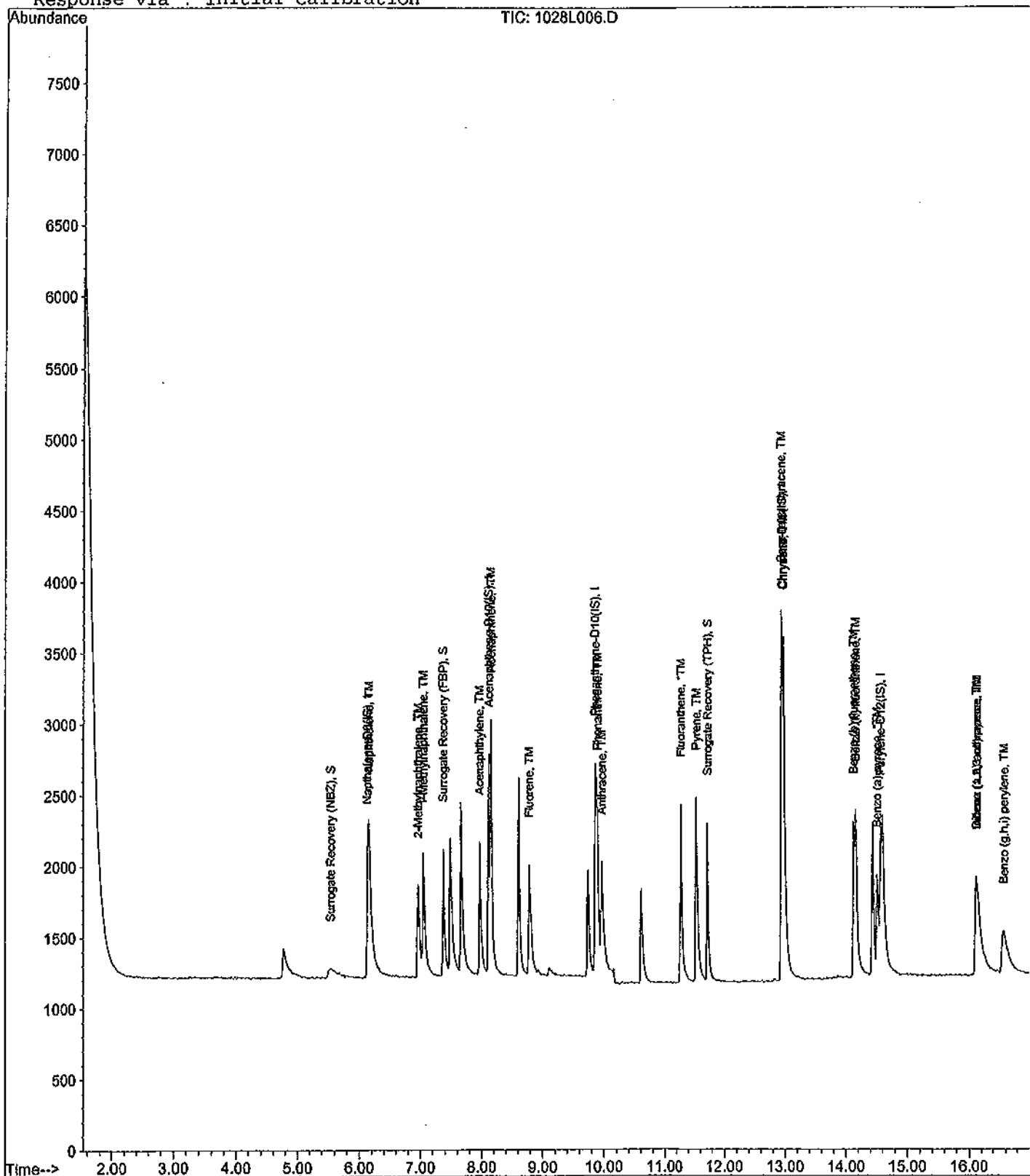
Data File : M:\LINUS\DATA\L111027\1028L006.D
 Acq On : 28 Oct 11 11:32
 Sample : 1.0ug/ml PAH
 Misc :

Vial: 6
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 11:10 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Nov 01 17:14:29 2011
 Response via : Initial Calibration



Data File : M:\LINUS\DATA\L111027\1028L007.D
 Acq On : 28 Oct 11 11:58
 Sample : 5.0ug/ml PAH
 Misc :

Vial: 7
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:40 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 30 10:38:04 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	6.12	136	2479	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	8.11	164	1083	2.50000	ppb	-0.02
11) Phenanthrene-D10 (IS)	9.85	188	1851	2.50000	ppb	-0.02
15) Chrysene-D12 (IS)	12.93	240	2378	2.50000	ppb	-0.04
21) Perylene-D12 (IS)	14.56	264	1871	2.50000	ppb	-0.04
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.42	82	1947	7.24379	ppb	-0.12
Spiked Amount	2.000		Recovery	=	362.200%	
7) Surrogate Recovery (FBP)	7.35	172	4731	6.98644	ppb	-0.02
Spiked Amount	2.000		Recovery	=	349.300%	
17) Surrogate Recovery (TPH)	11.71	244	5216	6.83493	ppb	-0.05
Spiked Amount	2.000		Recovery	=	341.750%	
Target Compounds						
3) Naphthalene	6.14	128	7358	3.65875	ppb	99
4) 2-Methylnaphthalene	6.93	142	4331	3.66320	ppb	98
5) 1-Methylnaphthalene	7.04	142	4683	3.69477	ppb	97
8) Acenaphthylene	7.95	152	6597	3.84274	ppb	100
9) Acenaphthene	8.15	154	3814	3.77124	ppb	92
10) Fluorene	8.76	166	4219	3.65257	ppb	99
12) Phenanthrene	9.87	178	5443	3.21854	ppb	98
13) Anthracene	9.94	178	5527	2.97363	ppb	99
14) Fluoranthene	11.26	202	9367	3.04387	ppb	98
16) Pyrene	11.51	202	9724	3.17462	ppb	97
18) Benz (a) anthracene	12.91	228	6027	3.49657	ppb	98
19) Chrysene	12.96	228	9422	4.19498	ppb	99
20) Indeno (1,2,3-cd) pyrene	16.06	276	6554	4.85029	ppb	95
22) Benzo (b) fluoranthene	14.10	252	6693	4.75397	ppb	# 96
23) Benzo (k) fluoranthene	14.14	252	6995	3.70332	ppb	99
24) Benzo (a) pyrene	14.49	252	6259	4.20974	ppb	98
25) Dibenz (a,h) anthracene	16.08	278	5075	5.35048	ppb	97
26) Benzo (g,h,i) perylene	16.51	276	5423	4.51321	ppb	98

Quantitation Report

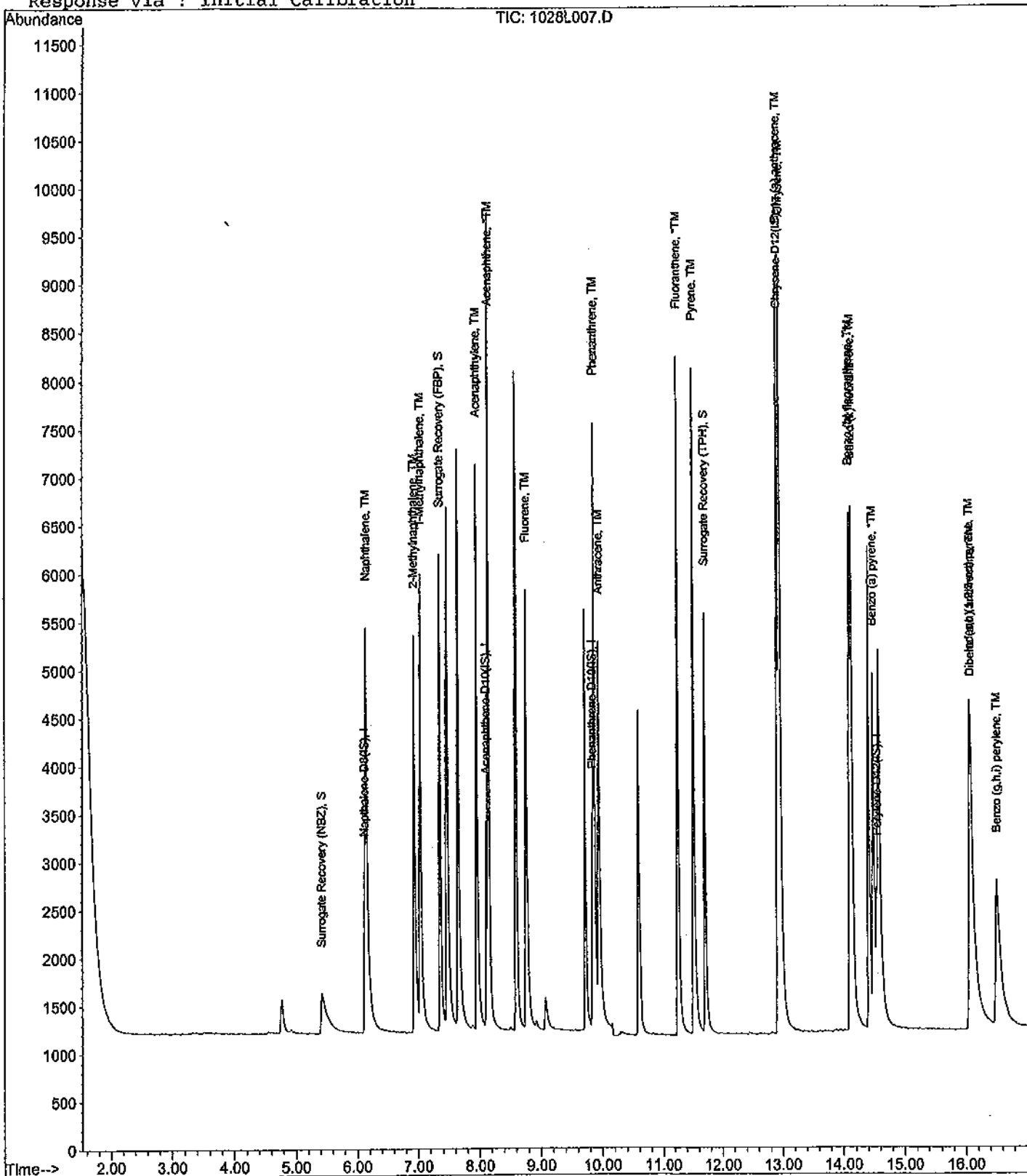
Data File : M:\LINUS\DATA\L111027\1028L007.D
 Acq On : 28 Oct 11 11:58
 Sample : 5.0ug/ml PAH
 Misc :

Vial: 7
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:40 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Nov 01 17:14:29 2011
 Response via : Initial Calibration



Data File : M:\LINUS\DATA\L111027\1028L008.D
 Acq On : 28 Oct 11 12:23
 Sample : 10ug/ml PAH
 Misc :

Vial: 8
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:41 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 30 10:38:04 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	6.12	136	2419	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	8.11	164	1154	2.50000	ppb	-0.02
11) Phenanthrene-D10 (IS)	9.85	188	1800	2.50000	ppb	-0.02
15) Chrysene-D12 (IS)	12.91	240	2580	2.50000	ppb	-0.05
21) Perylene-D12 (IS)	14.55	264	2113	2.50000	ppb	-0.05

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Surrogate Recovery (NBZ)	5.38	82	3973	14.84926	ppb	-0.16
Spiked Amount	2.000		Recovery	= 742.450%		
7) Surrogate Recovery (FBP)	7.35	172	9747	13.50818	ppb	-0.02
Spiked Amount	2.000		Recovery	= 675.400%		
17) Surrogate Recovery (TPH)	11.70	244	11014	13.30251	ppb	-0.06
Spiked Amount	2.000		Recovery	= 665.150%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Napthalene	6.13	128	16688	8.50390	ppb	99
4) 2-Methylnaphthalene	6.92	142	9930	8.60721	ppb	100
5) 1-Methylnaphthalene	7.02	142	10317	8.34175	ppb	92
8) Acenaphthylene	7.95	152	15071	8.23870	ppb	99
9) Acenaphthene	8.15	154	8403	7.79759	ppb	97
10) Fluorene	8.75	166	9496	7.71528	ppb	98
12) Phenanthrene	9.87	178	12375	7.52487	ppb	99
13) Anthracene	9.93	178	12631	6.98825	ppb	99
14) Fluoranthene	11.25	202	21698	7.25069	ppb	# 93
16) Pyrene	11.50	202	22373	6.73230	ppb	# 85
18) Benz (a) anthracene	12.91	228	14154	7.56854	ppb	100
19) Chrysene	12.95	228	21503	8.82425	ppb	99
20) Indeno (1,2,3-cd) pyrene	16.03	276	15698	10.70773	ppb	# 96
22) Benzo (b) fluoranthene	14.09	252	15772	9.91966	ppb	96
23) Benzo (k) fluoranthene	14.13	252	16351	7.66517	ppb	98
24) Benzo (a) pyrene	14.48	252	14853	8.84584	ppb	98
25) Dibenz (a,h) anthracene	16.05	278	12481	11.65147	ppb	96
26) Benzo (g,h,i) perylene	16.47	276	13167	9.70302	ppb	97

Quantitation Report

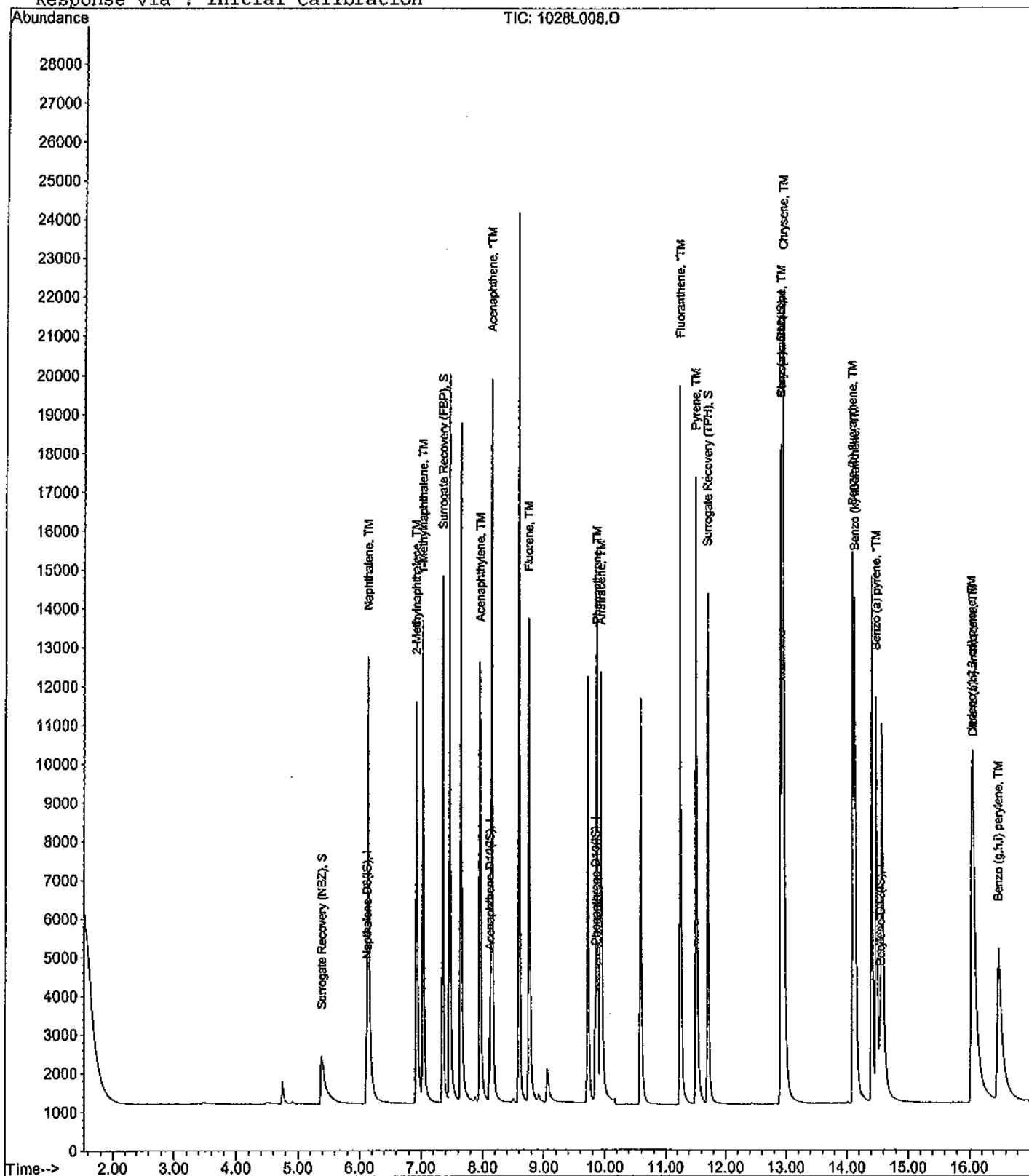
Data File : M:\LINUS\DATA\L111027\1028L008.D
 Acq On : 28 Oct 11 12:23
 Sample : 10ug/ml PAH
 Misc :

Vial: 8
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:41 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Nov 01 17:14:29 2011
 Response via : Initial Calibration



Data File : M:\LINUS\DATA\L111027\1028L009.D
 Acq On : 28 Oct 11 12:49
 Sample : 50ug/ml PAH
 Misc :

Vial: 9
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:41 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 30 10:41:31 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	6.11	136	2170	2.50000	ppb	-0.01
6) Acenaphthene-D10 (IS)	8.11	164	955	2.50000	ppb	-0.02
11) Phenanthrene-D10 (IS)	9.84	188	1764	2.50000	ppb	-0.04
15) Chrysene-D12 (IS)	12.91	240	2325	2.50000	ppb	-0.05
21) Perylene-D12 (IS)	14.54	264	1951	2.50000	ppb	-0.06
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.34	82	19569	80.30257	ppb	0.00
Spiked Amount	2.000		Recovery	= 4015.150%		
7) Surrogate Recovery (FBP)	7.34	172	37203	62.30259	ppb	-0.04
Spiked Amount	2.000		Recovery	= 3115.150%		
17) Surrogate Recovery (TPH)	11.70	244	43552	58.37048	ppb	-0.06
Spiked Amount	2.000		Recovery	= 2918.500%		
Target Compounds						
3) Naphthalene	6.12	128	64981	36.91273	ppb	98
4) 2-Methylnaphthalene	6.92	142	39285	37.95912	ppb	91
5) 1-Methylnaphthalene	7.02	142	37731	34.00777	ppb	98
8) Acenaphthylene	7.94	152	59152	39.07406	ppb	100
9) Acenaphthene	8.13	154	32228	36.13782	ppb	90
10) Fluorene	8.75	166	36584	35.91740	ppb	95
12) Phenanthrene	9.86	178	48574	30.13920	ppb	99
13) Anthracene	9.92	178	49934	28.19038	ppb	99
14) Fluoranthene	11.23	202	84927	28.95874	ppb	# 86
16) Pyrene	11.50	202	87985	29.37950	ppb	93
18) Benz (a) anthracene	12.90	228	63776	37.84310	ppb	99
19) Chrysene	12.94	228	76944	35.03889	ppb	99
20) Indeno (1,2,3-cd) pyrene	16.01	276	67886	51.38427	ppb	97
22) Benzo (b) fluoranthene	14.09	252	68863	46.90706	ppb	# 96
23) Benzo (k) fluoranthene	14.12	252	60905	30.92236	ppb	100
24) Benzo (a) pyrene	14.45	252	61841	39.88811	ppb	# 94
25) Dibenz (a,h) anthracene	16.02	278	54590	55.19334	ppb	99
26) Benzo (g,h,i) perylene	16.44	276	56362	44.98303	ppb	98

Quantitation Report

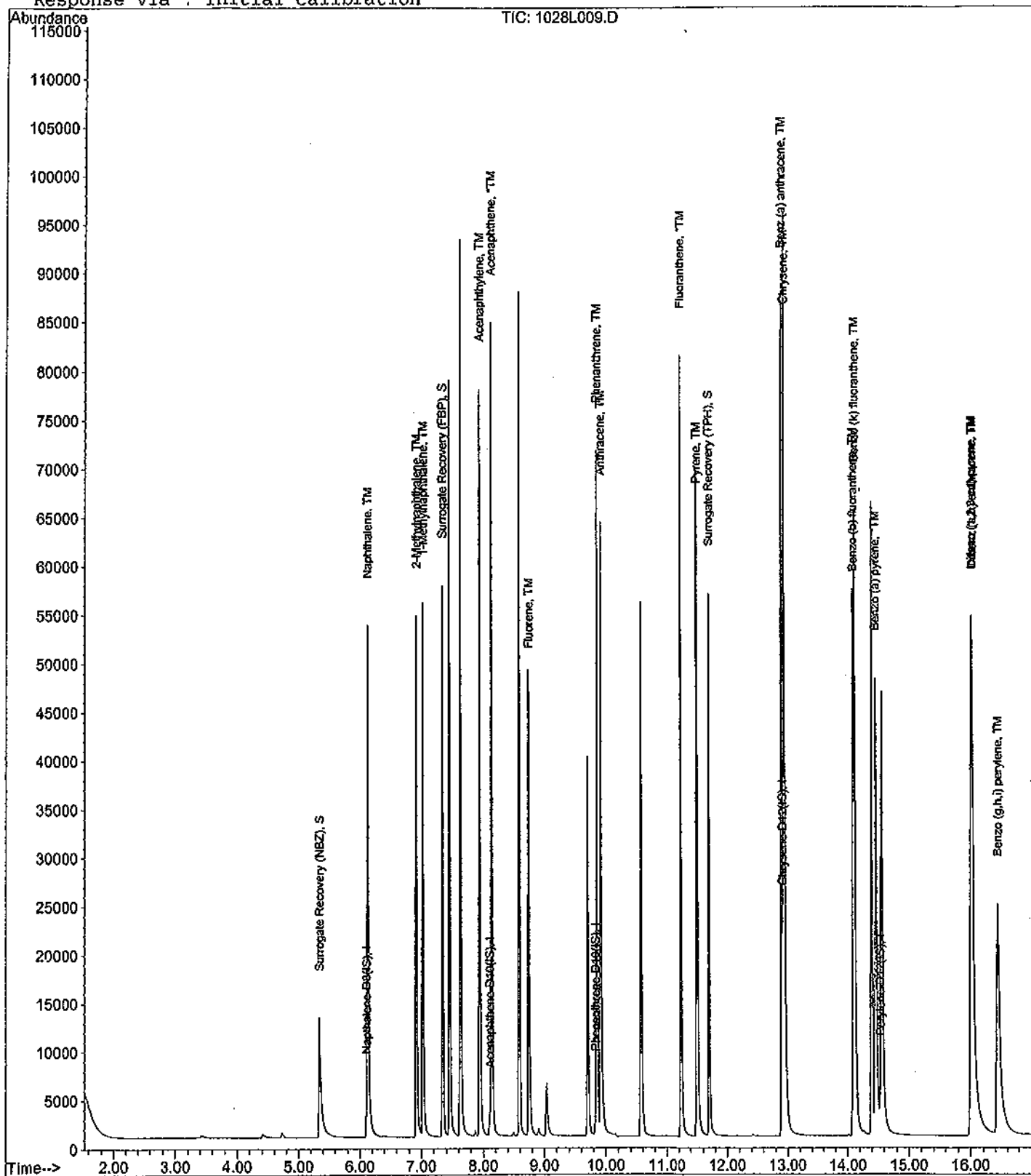
Data File : M:\LINUS\DATA\L111027\1028L009.D
 Acq On : 28 Oct 11 12:49
 Sample : 50ug/ml PAH
 Misc :

Vial: 9
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:41 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Nov 01 17:14:29 2011
 Response via : Initial Calibration



Data File : M:\LINUS\DATA\L111027\1028L010.D Vial: 10
 Acq On : 28 Oct 11 13:14 Operator: LF
 Sample : 100ug/ml PAH Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 30 10:42 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 30 10:41:31 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	6.11	136	2028	2.50000	ppb	-0.01
6) Acenaphthene-D10 (IS)	8.11	164	919	2.50000	ppb	-0.02
11) Phenanthrene-D10 (IS)	9.84	188	1786	2.50000	ppb	-0.04
15) Chrysene-D12 (IS)	12.91	240	2218	2.50000	ppb	-0.05
21) Perylene-D12 (IS)	14.54	264	1949	2.50000	ppb	-0.06
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.32	82	39811	174.48341	ppb	-0.01
Spiked Amount	2.000					
						Recovery = 8724.150%
7) Surrogate Recovery (FBP)	7.34	172	68503	119.21355	ppb	-0.04
Spiked Amount	2.000					
						Recovery = 5960.700%
17) Surrogate Recovery (TPH)	11.70	244	80239	112.72808	ppb	-0.06
Spiked Amount	2.000					
						Recovery = 5636.400%
Target Compounds						
3) Naphthalene	6.12	128	118023	71.73782	ppb	98
4) 2-Methylnaphthalene	6.92	142	72350	74.80311	ppb	91
5) 1-Methylnaphthalene	7.02	142	67525	65.12327	ppb	99
8) Acenaphthylene	7.94	152	108807	74.69023	ppb	99
9) Acenaphthene	8.13	154	58631	68.31936	ppb	89
10) Fluorene	8.75	166	64716	66.02573	ppb	95
12) Phenanthrene	9.86	178	89156	54.63809	ppb	98
13) Anthracene	9.92	178	91266	50.88980	ppb	98
14) Fluoranthene	11.23	202	154470	52.02296	ppb	# 84
16) Pyrene	11.50	202	164055	57.42311	ppb	# 90
18) Benz (a) anthracene	12.90	228	140011	87.08694	ppb	99
19) Chrysene	12.94	228	127613	60.91607	ppb	# 95
20) Indeno (1,2,3-cd) pyrene	16.02	276	133093	105.60065	ppb	# 87
22) Benzo (b) fluoranthene	14.09	252	126697	86.39011	ppb	96
23) Benzo (k) fluoranthene	14.12	252	120651	61.31914	ppb	# 94
24) Benzo (a) pyrene	14.47	252	119503	77.15982	ppb	95
25) Dibenz (a,h) anthracene	16.03	278	107509	108.80876	ppb	91
26) Benzo (g,h,i) perylene	16.44	276	112699	90.03841	ppb	99

Quantitation Report

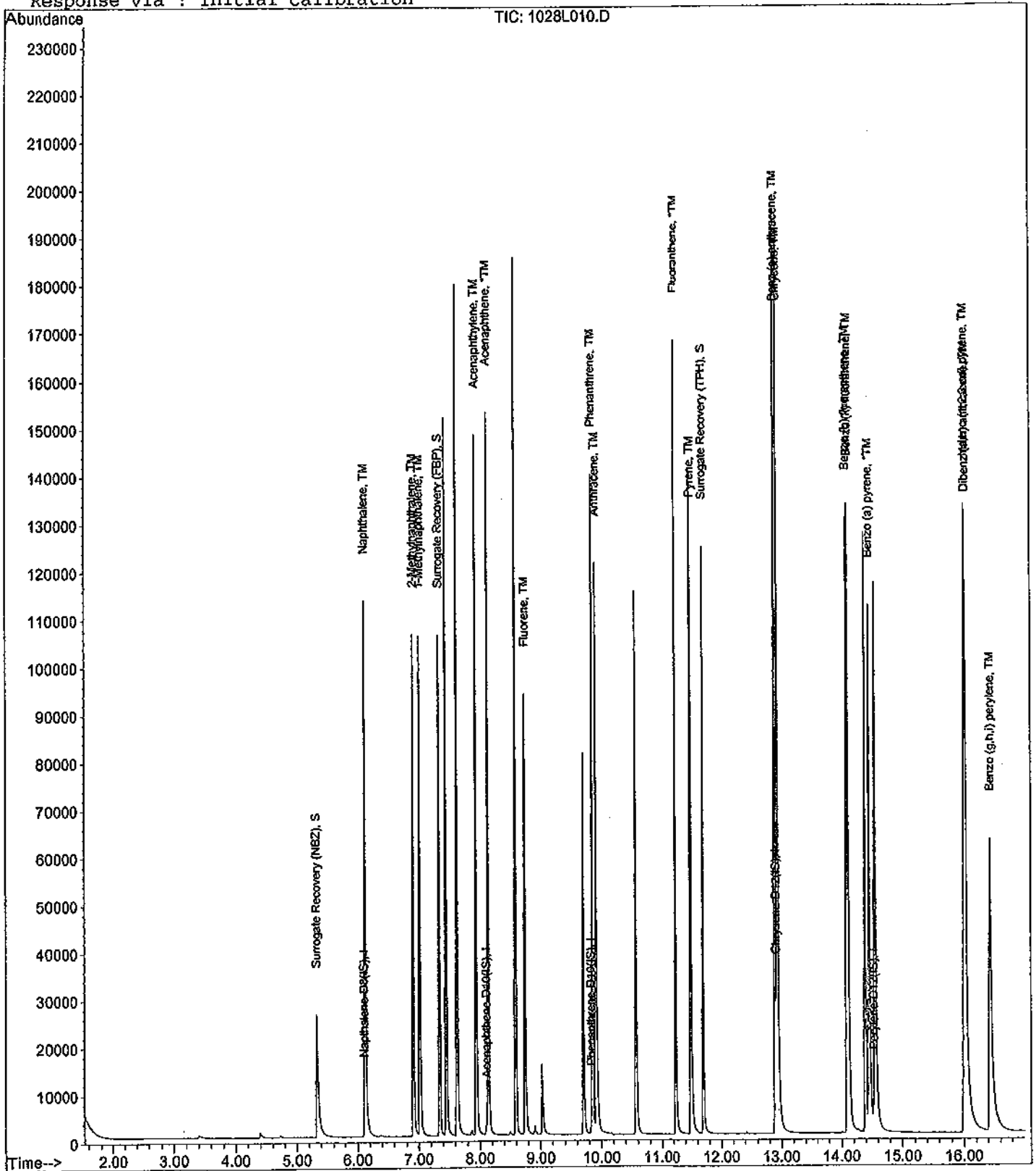
Data File : M:\LINUS\DATA\L111027\1028L010.D
 Acq On : 28 Oct 11 13:14
 Sample : 100ug/ml PAH
 Misc :

Vial: 10
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:42 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Nov 01 17:14:29 2011
 Response via : Initial Calibration



Form 7

Second Source Calibration

Lab Name: APPL, Inc.

SDG No: 66116

Case No: _____

Date Analyzed: 10/28/11

Matrix: _____

Instrument: LinusInitial Cal. Date: 10/27/11Data File: 1028L011.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	Naphthalene-D8(IS)	ISTD			I
2	TM	Naphthalene	1.742	1.546	11	TM
3	TM	2-Methylnaphthalene	0.8931	0.8782	1.7	TM
4	TM	1-Methylnaphthalene	1.031	1.007	2.4	TM
5	I	Acenaphthene-D10(IS)	ISTD			I
6	TM	Acenaphthylene	3.327	3.132	5.8	TM
7	*TM	Acenaphthene	1.904	1.812	4.8	*TM
8	TM	Fluorene	2.083	1.993	4.3	TM
9	I	Phenanthrene-D10(IS)	ISTD			I
10	TM	Phenanthrene	1.609	1.555	3.4	TM
11	TM	Anthracene	1.634	1.624	0.64	TM
12	*TM	Fluoranthene	2.792	2.916	4.4	*TM
13	I	Chrysene-D12(IS)	ISTD			I
14	TM	Pyrene	2.200	2.429	10	TM
15	TM	Benz (a) anthracene	1.449	1.392	3.9	TM
16	TM	Chrysene	1.939	2.190	13	TM
17	TM	Indeno (1,2,3-cd) pyrene	1.502	1.468	2.3	TM
18	I	Perylene-D12(IS)	ISTD			I
19	TM	Benzo (b) fluoranthene	1.761	1.686	4.3	TM
20	TM	Benzo (k) fluoranthene	1.823	2.176	19	TM
21	*TM	Benzo (a) pyrene	1.723	1.689	1.9	*TM
22	TM	Dibenz (a,h) anthracene	1.447	1.354	6.4	TM
23	TM	Benzo (g,h,i) perylene	1.525	1.483	2.8	TM
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						

Average

5.7

Data File : M:\LINUS\DATA\L111027\1028L011.D Vial: 11
 Acq On : 28 Oct 11 13:40 Operator: LF
 Sample : 5.0ug/ml SS PAH 10-27-11 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 30 11:17 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 30 11:15:17 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	6.13	136	2295	2.50000	ppb	0.01
6) Acenaphthene-D10 (IS)	8.11	164	1033	2.50000	ppb	0.00
11) Phenanthrene-D10 (IS)	9.85	188	1773	2.50000	ppb	0.00
15) Chrysene-D12 (IS)	12.93	240	2205	2.50000	ppb	0.00
21) Perylene-D12 (IS)	14.56	264	1840	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	0.00	82	0d	0.00000	ppb	
Spiked Amount	2.000		Recovery	=	0.000%	
7) Surrogate Recovery (FBP)	0.00	172	0d	0.00000	ppb	
Spiked Amount	2.000		Recovery	=	0.000%	
17) Surrogate Recovery (TPH)	0.00	244	0d	0.00000	ppb	
Spiked Amount	2.000		Recovery	=	0.000%	
Target Compounds						
3) Napthalene	6.14	128	7095	4.43732	ppb	99
4) 2-Methylnaphthalene	6.93	142	4031	4.91655	ppb	99
5) 1-Methylnaphthalene	7.04	142	4620	4.88168	ppb	94
8) Acenaphthylene	7.95	152	6471	4.70758	ppb	99
9) Acenaphthene	8.15	154	3744	4.75904	ppb	91
10) Fluorene	8.76	166	4117	4.78272	ppb	99
12) Phenanthrene	9.87	178	5514	4.83130	ppb	99
13) Anthracene	9.94	178	5757	4.96794	ppb	98
14) Fluoranthene	11.26	202	10339	5.22192	ppb	93
16) Pyrene	11.51	202	10711	5.51952	ppb	# 91
18) Benz (a) anthracene	12.93	228	6140	4.80346	ppb	99
19) Chrysene	12.96	228	9659	5.64891	ppb	99
20) Indeno (1,2,3-cd) pyrene	16.06	276	6475	4.88617	ppb	# 91
22) Benzo (b) fluoranthene	14.12	252	6204	4.78607	ppb	99
23) Benzo (k) fluoranthene	14.14	252	8006	5.96784	ppb	# 65
24) Benzo (a) pyrene	14.49	252	6217	4.90268	ppb	97
25) Dibenz (a,h) anthracene	16.08	278	4984	4.68078	ppb	96
26) Benzo (g,h,i) perylene	16.52	276	5458	4.86160	ppb	99

Quantitation Report

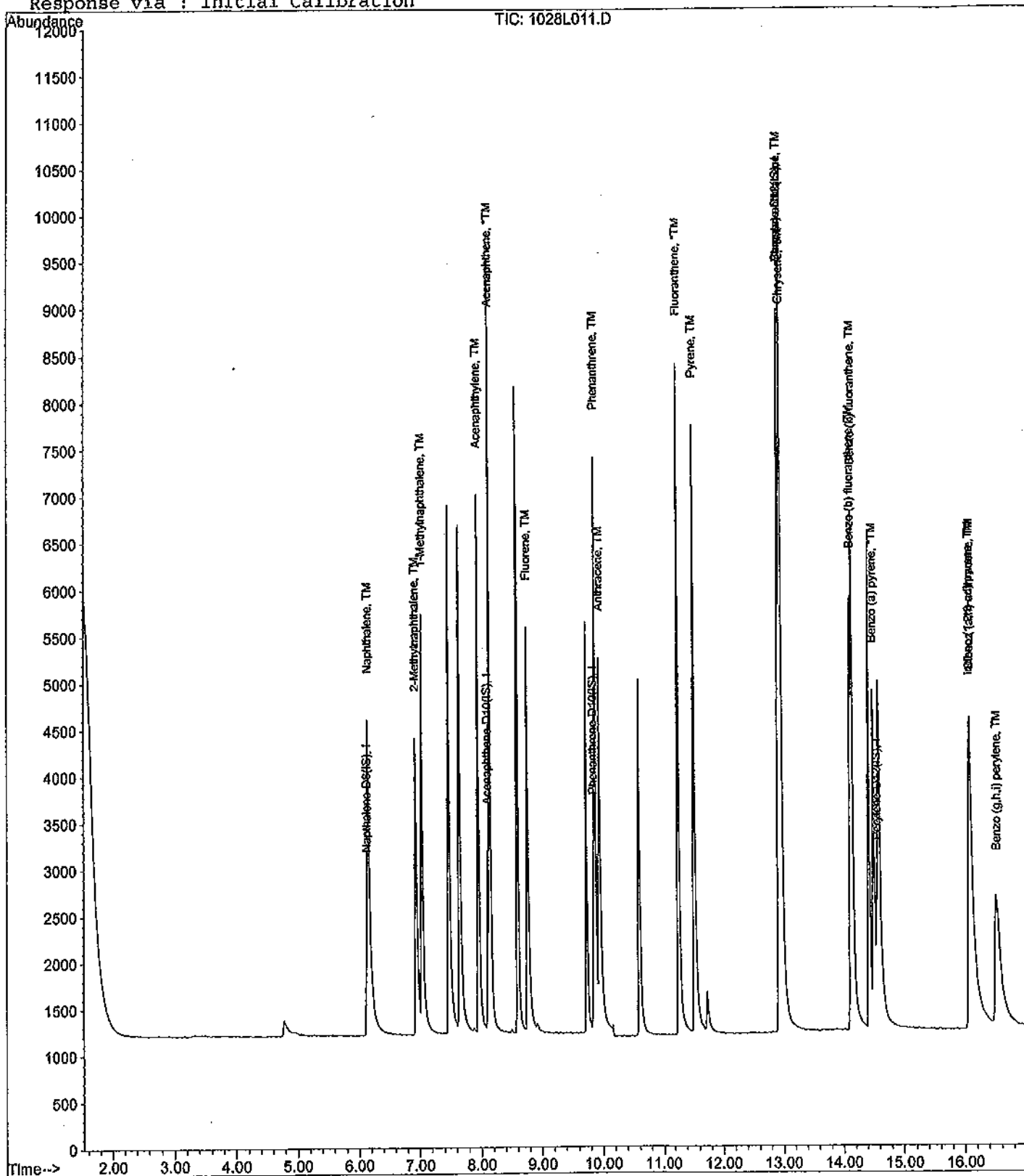
Data File : M:\LINUS\DATA\L111027\1028L011.D
 Acq On : 28 Oct 11 13:40
 Sample : 5.0ug/ml SS PAH 10-27-11
 Misc :

Vial: 11
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 11:17 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Nov 01 17:14:29 2011
 Response via : Initial Calibration



EPA 8270C SIM

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
 Case No: _____
 Matrix: _____

SDG No: 66116
 Date Analyzed: 5 Nov 11 16:54
 Instrument: Linus
 Initial Cal. Date: 10/27/11
 Data File: 1105L020.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	Napthalene-D8(IS)	ISTD			I
2	S	Surrogate Recovery (NBZ)	0.4477	0.4479	0.03	S
3	TM	Napthalene	1.742	1.518	13	TM
4	TM	2-Methylnapthalene	0.8931	0.9102	1.9	TM
5	TM	1-Methylnapthalene	1.031	0.9456	8.3	TM
6	I	Acenaphthene-D10(IS)	ISTD			I
7	S	Surrogate Recovery (FBP)	2.229	2.036	8.6	S
8	TM	Acenaphthylene	3.327	3.080	7.4	TM
9	*TM	Acenaphthene	1.904	1.695	11	*TM
10	TM	Fluorene	2.083	1.961	5.9	TM
11	I	Phenanthrene-D10(IS)	ISTD			I
12	TM	Phenanthrene	1.609	1.494	7.2	TM
13	TM	Anthracene	1.634	1.588	2.8	TM
14	*TM	Fluoranthene	2.792	2.868	2.7	*TM
15	I	Chrysene-D12(IS)	ISTD			I
16	TM	Pyrene	2.200	2.193	0.31	TM
17	S	Surrogate Recovery (TPH)	1.077	1.106	2.7	S
18	TM	Benz (a) anthracene	1.449	1.737	20	TM
19	TM	Chrysene	1.939	1.906	1.7	TM
20	TM	Indeno (1,2,3-cd) pyrene	1.502	1.682	12	TM
21	I	Perylene-D12(IS)	ISTD			I
22	TM	Benzo (b) fluoranthene	1.761	1.921	9.1	TM
23	TM	Benzo (k) fluoranthene	1.823	1.713	6.0	TM
24	*TM	Benzo (a) pyrene	1.723	1.698	1.4	*TM
25	TM	Dibenz (a,h) anthracene	1.447	1.482	2.5	TM
26	TM	Benzo (g,h,i) perylene	1.525	1.535	0.66	TM
27						
28						
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34						
35						
36						
37						
38						
39						
40						

Average

6.0

Data File : M:\LINUS\DATA\L111027\1105L020.D
 Acq On : 5 Nov 11 16:54
 Sample : 5.0ug/ml PAH 10-27-11
 Misc :

Vial: 20
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Nov 8 9:47 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Nov 02 15:56:51 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	6.11	136	1948	2.50000	ppb	-0.01
6) Acenaphthene-D10 (IS)	8.11	164	877	2.50000	ppb	0.00
11) Phenanthrene-D10 (IS)	9.85	188	1506	2.50000	ppb	0.00
15) Chrysene-D12 (IS)	12.93	240	2029	2.50000	ppb	0.00
21) Perylene-D12 (IS)	14.56	264	1837	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.38	82	1745	5.00173	ppb	-0.06
Spiked Amount	2.000		Recovery	=	250.100%	
7) Surrogate Recovery (FBP)	7.35	172	3572	4.56887	ppb	0.00
Spiked Amount	2.000		Recovery	=	228.450%	
17) Surrogate Recovery (TPH)	11.70	244	4488	5.13686	ppb	-0.01
Spiked Amount	2.000		Recovery	=	256.850%	
Target Compounds						
						Qvalue
3) Naphthalene	6.13	128	5914	4.35756	ppb	99
4) 2-Methylnaphthalene	6.92	142	3546	5.09542	ppb	94
5) 1-Methylnaphthalene	7.02	142	3684	4.58607	ppb	92
8) Acenaphthylene	7.95	152	5403	4.62980	ppb	99
9) Acenaphthene	8.15	154	2973	4.45122	ppb	95
10) Fluorene	8.75	166	3440	4.70710	ppb	96
12) Phenanthrene	9.87	178	4499	4.64084	ppb	100
13) Anthracene	9.93	178	4783	4.85919	ppb	97
14) Fluoranthene	11.26	202	8637	5.13568	ppb	98
16) Pyrene	11.51	202	8901	4.98467	ppb	97
18) Benz (a) anthracene	12.91	228	7049	5.99294	ppb	98
19) Chrysene	12.96	228	7735	4.91608	ppb	98
20) Indeno (1,2,3-cd) pyrene	16.06	276	6825	5.59703	ppb	# 91
22) Benzo (b) fluoranthene	14.10	252	7058	5.45378	ppb	97
23) Benzo (k) fluoranthene	14.14	252	6292	4.69785	ppb	95
24) Benzo (a) pyrene	14.49	252	6239	4.92807	ppb	99
25) Dibenz (a,h) anthracene	16.06	278	5446	5.12302	ppb	99
26) Benzo (g,h,i) perylene	16.51	276	5641	5.03281	ppb	96

Quantitation Report

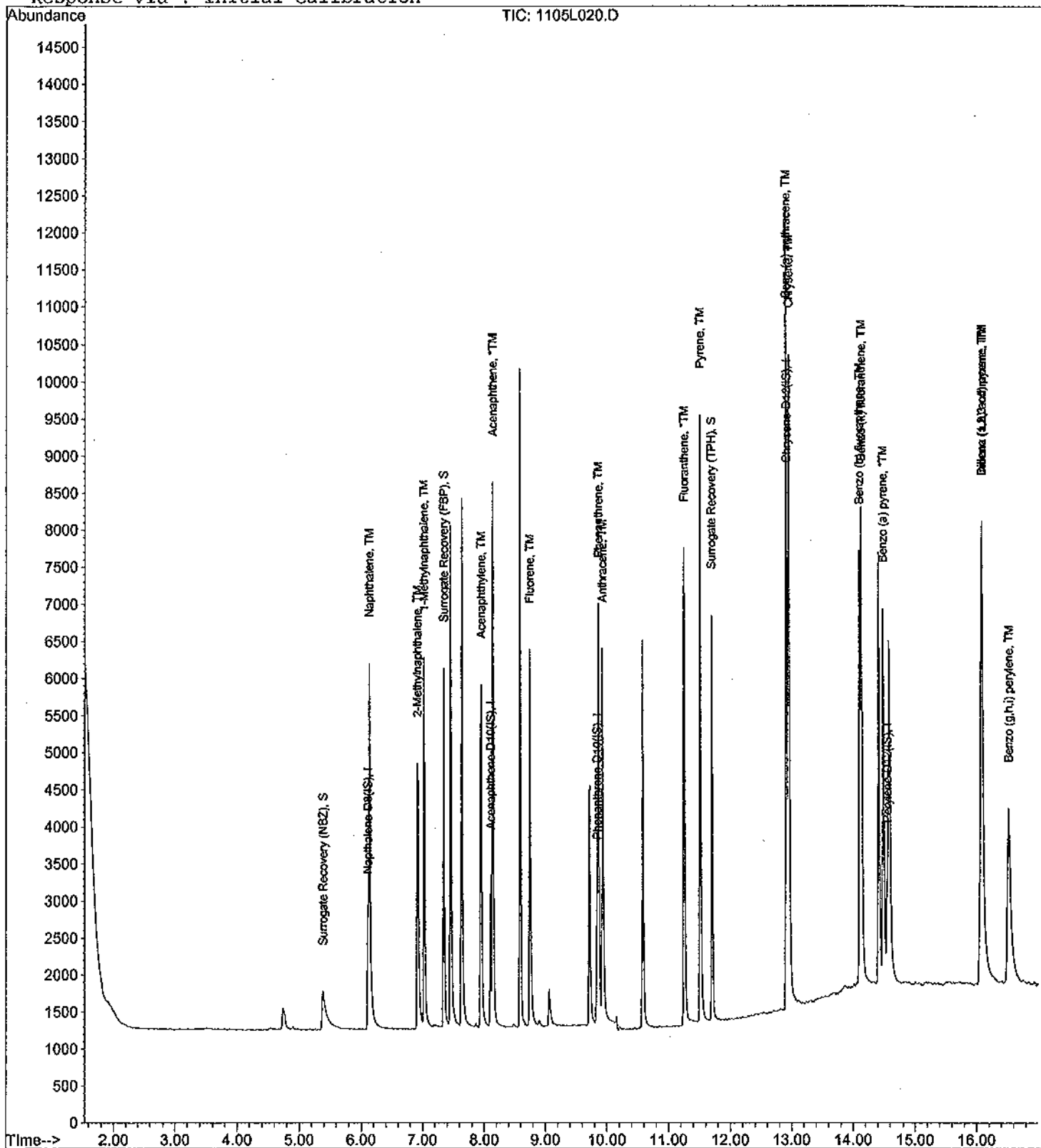
Data File : M:\LINUS\DATA\L111027\1105L020.D
Acq On : 5 Nov 11 16:54
Sample : 5.0ug/ml PAH 10-27-11
Misc :

Vial: 20
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 8 9:47 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 08 16:22:04 2011
Response via : Initial Calibration



EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Raw Data

Method Blank
EPA 8270D SIM

Blank Name/QCG: 111031W-49334 - 161019
Batch ID: #SIMHC-111031A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
BLANK	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
BLANK	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
BLANK	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
BLANK	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/05/11
BLANK	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/05/11
BLANK	BENZO(A)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/05/11
BLANK	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
BLANK	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	10/31/11	11/05/11
BLANK	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/05/11
BLANK	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/05/11
BLANK	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/05/11
BLANK	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	10/31/11	11/05/11
BLANK	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	10/31/11	11/05/11
BLANK	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/05/11
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	10/31/11	11/05/11
BLANK	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	10/31/11	11/05/11
BLANK	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	10/31/11	11/05/11
BLANK	SURROGATE: 2-FLUORBIPHENY	51.7	50-110			%	10/31/11	11/05/11
BLANK	SURROGATE: NITROBENZENE-	66.3	40-110			%	10/31/11	11/05/11
BLANK	SURROGATE: TERPHENYL-D14 (	54.5	50-135			%	10/31/11	11/05/11

Quant Method:SIM2.M
Run #:1105L028
Instrument:Linus
Sequence:L111027
Initials:LF

GC SC-Blank-REG MDLs
Printed: 11/09/11 4:07:32 PM

Data File : M:\LINUS\DATA\L111027\1105L028.D Vial: 28
 Acq On : 5 Nov 11 20:15 Operator: LF
 Sample : 111031A BLK 1/1000 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Nov 9 8:48 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Nov 02 15:56:51 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	6.12	136	2305	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	8.11	164	1068	2.50000	ppb	0.00
11) Phenanthrene-D10 (IS)	9.86	188	2122	2.50000	ppb	0.01
15) Chrysene-D12 (IS)	12.94	240	2454	2.50000	ppb	0.01
21) Perylene-D12 (IS)	14.57	264	2143	2.50000	ppb	0.01
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.42	82	547	1.32504	ppb	-0.02
Spiked Amount	2.000		Recovery	=	66.250%	
7) Surrogate Recovery (FBP)	7.36	172	984	1.03352	ppb	0.01
Spiked Amount	2.000		Recovery	=	51.700%	
17) Surrogate Recovery (TPH)	11.71	244	1151	1.08925	ppb	0.00
Spiked Amount	2.000		Recovery	=	54.450%	

Target Compounds

Qvalue

Quantitation Report

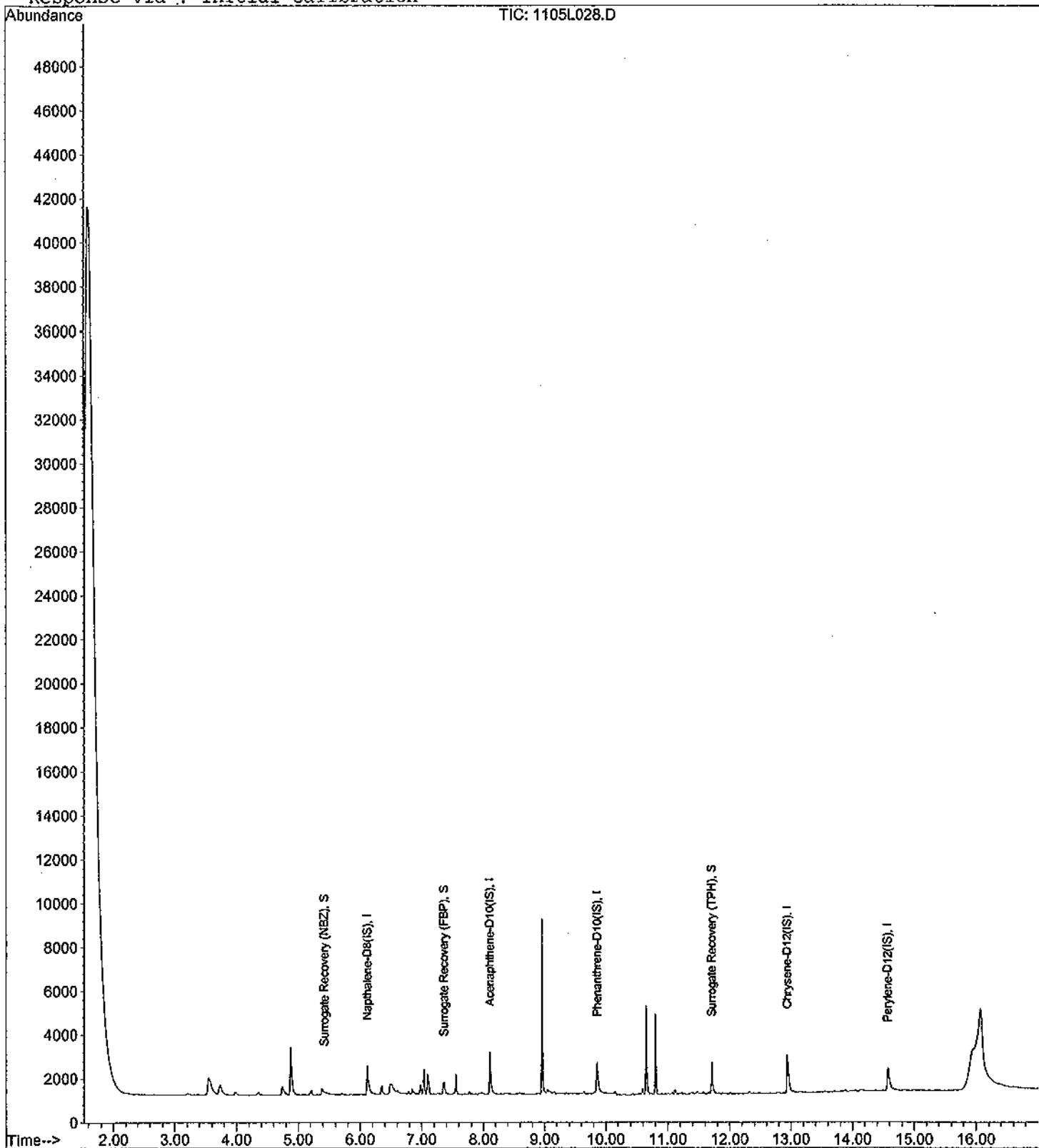
Data File : M:\LINUS\DATA\L111027\1105L028.D
Acq On : 5 Nov 11 20:15
Sample : 111031A BLK 1/1000
Misc :

Vial: 28
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 9 8:48 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 08 16:22:04 2011
Response via : Initial Calibration



Laboratory Control Spike Recovery

EPA 8270D SIM

APPL ID: 111031W-49334 LCS - 161019
 Batch ID: #SIMHC-111031A

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1-METHYLNAPHTHALENE	4.00	2.25	56.3	45-105
2-METHYLNAPHTHALENE	4.00	2.26	56.5	45-105
ACENAPHTHENE	4.00	2.55	63.7	45-110
ACENAPHTHYLENE	4.00	2.39	59.8	50-105
ANTHRACENE	4.00	2.47	61.8	55-110
BENZO(A)ANTHRACENE	4.00	2.74	68.5	55-110
BENZO(A)PYRENE	4.00	2.48	62.0	55-110
BENZO(B)FLUORANTHENE	4.00	2.43	60.8	45-120
BENZO(GHI)PERYLENE	4.00	2.80	70.0	40-125
BENZO(K)FLUORANTHENE	4.00	3.23	80.8	45-125
CHRYSENE	4.00	2.86	71.5	55-110
DIBENZ(A,H)ANTHRACENE	4.00	2.89	72.3	40-125
FLUORANTHENE	4.00	2.86	71.5	55-115
FLUORENE	4.00	2.59	64.8	50-110
INDENO(1,2,3-CD)PYRENE	4.00	2.95	73.8	45-125
NAPHTHALENE	4.00	2.30	57.5	40-100
PHENANTHRENE	4.00	2.43	60.8	50-115
PYRENE	4.00	2.57	64.3	50-130

SURROGATE: 2-FLUORBIPHENYL (S)	2.00	1.11	55.5	50-110
SURROGATE: NITROBENZENE-D5 (S)	2.00	1.14	57.0	40-110
SURROGATE: TERPHENYL-D14 (S)	2.00	1.06	53.0	50-135

Comments: _____

Primary	SPK
Quant Method :	SIM2.M
Extraction Date :	10/31/11
Analysis Date :	11/05/11
Instrument :	Linus
Run :	1105L029
Initials :	LF

Printed: 11/09/11 4:08:05 PM

APPL Standard LCS

Data File : M:\LINUS\DATA\L111027\1105L029.D
 Acq On : 5 Nov 11 20:41
 Sample : 111031A LCS-1 1/1000
 Misc :

Vial: 29
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Nov 9 8:50 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Nov 02 15:56:51 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	6.12	136	2079	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	8.11	164	961	2.50000	ppb	0.00
11) Phenanthrene-D10 (IS)	9.85	188	1713	2.50000	ppb	0.00
15) Chrysene-D12 (IS)	12.93	240	2367	2.50000	ppb	0.00
21) Perylene-D12 (IS)	14.56	264	2017	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.43	82	426	1.14411	ppb	-0.01
Spiked Amount	2.000		Recovery	=	57.200%	
7) Surrogate Recovery (FBP)	7.36	172	951	1.11008	ppb	0.01
Spiked Amount	2.000		Recovery	=	55.500%	
17) Surrogate Recovery (TPH)	11.71	244	1078	1.05766	ppb	0.00
Spiked Amount	2.000		Recovery	=	52.900%	
Target Compounds						
						Qvalue
3) Naphthalene	6.14	128	3335	2.30246	ppb	99
4) 2-Methylnaphthalene	6.93	142	1681	2.26331	ppb	89
5) 1-Methylnaphthalene	7.04	142	1929	2.25003	ppb	88
8) Acenaphthylene	7.95	152	3060	2.39290	ppb	99
9) Acenaphthene	8.15	154	1866	2.54960	ppb	93
10) Fluorene	8.76	166	2077	2.59363	ppb	97
12) Phenanthrene	9.87	178	2685	2.43497	ppb	98
13) Anthracene	9.94	178	2766	2.47049	ppb	99
14) Fluoranthene	11.26	202	5473	2.86107	ppb	94
16) Pyrene	11.51	202	5362	2.57400	ppb	# 87
18) Benz (a) anthracene	12.93	228	3766	2.74459	ppb	98
19) Chrysene	12.96	228	5250	2.86024	ppb	99
20) Indeno (1,2,3-cd) pyrene	16.09	276	4203	2.95460	ppb	# 95
22) Benzo (b) fluoranthene	14.12	252	3457	2.43287	ppb	# 91
23) Benzo (k) fluoranthene	14.15	252	4746	3.22732	ppb	95
24) Benzo (a) pyrene	14.50	252	3444	2.47758	ppb	98
25) Dibenz (a,h) anthracene	16.09	278	3371	2.88809	ppb	95
26) Benzo (g,h,i) perylene	16.53	276	3449	2.80253	ppb	98

Handwritten calculation:

$$\frac{3335 \times 25}{2079 \times 1.742} = 2.30$$
 LF 11/9/11

Quantitation Report

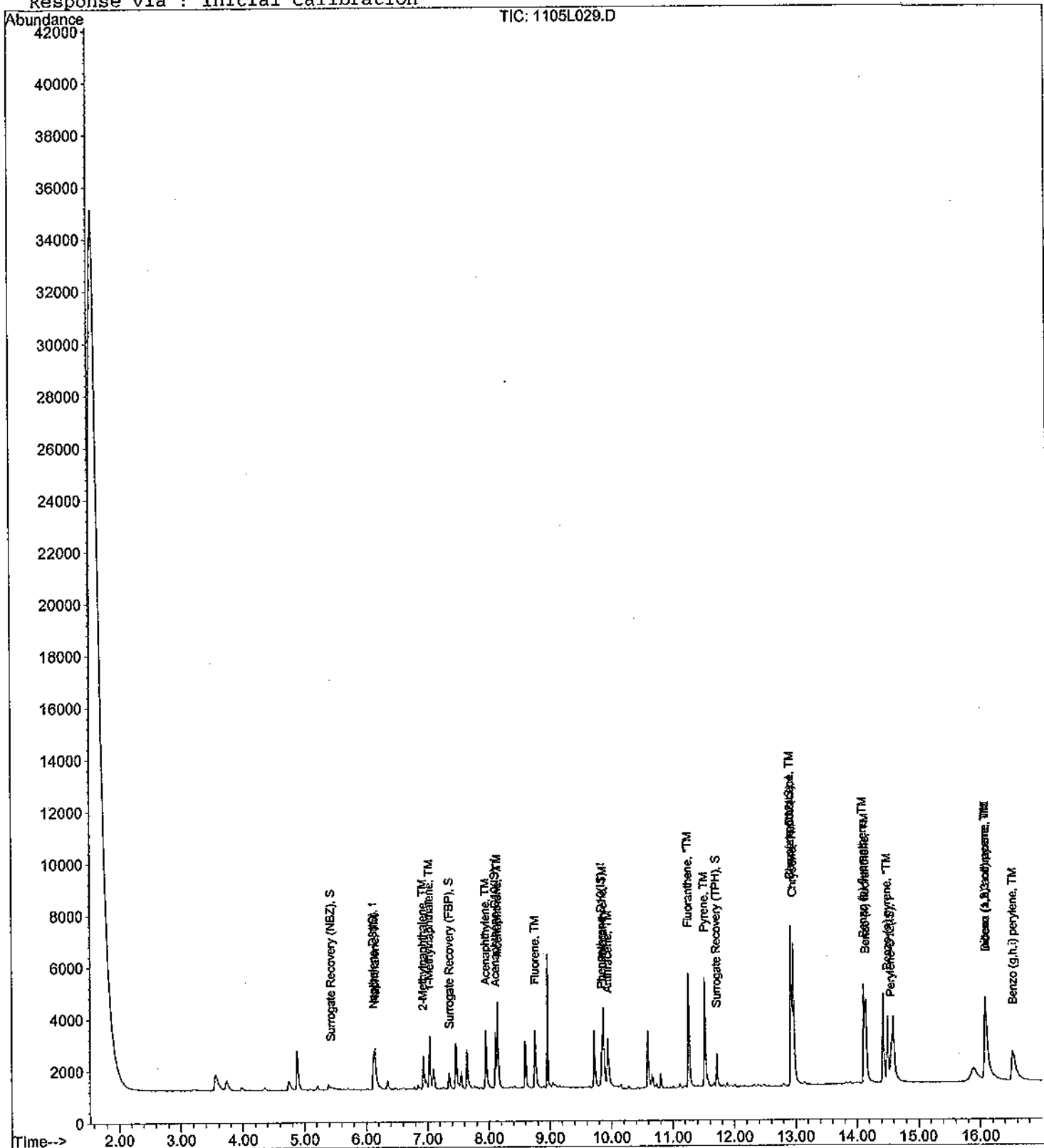
Data File : M:\LINUS\DATA\L111027\1105L029.D
Acq On : 5 Nov 11 20:41
Sample : 111031A LCS-1 1/1000
Misc :

Vial: 29
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 9 8:50 2011

Quant Results File: SIM2.RES

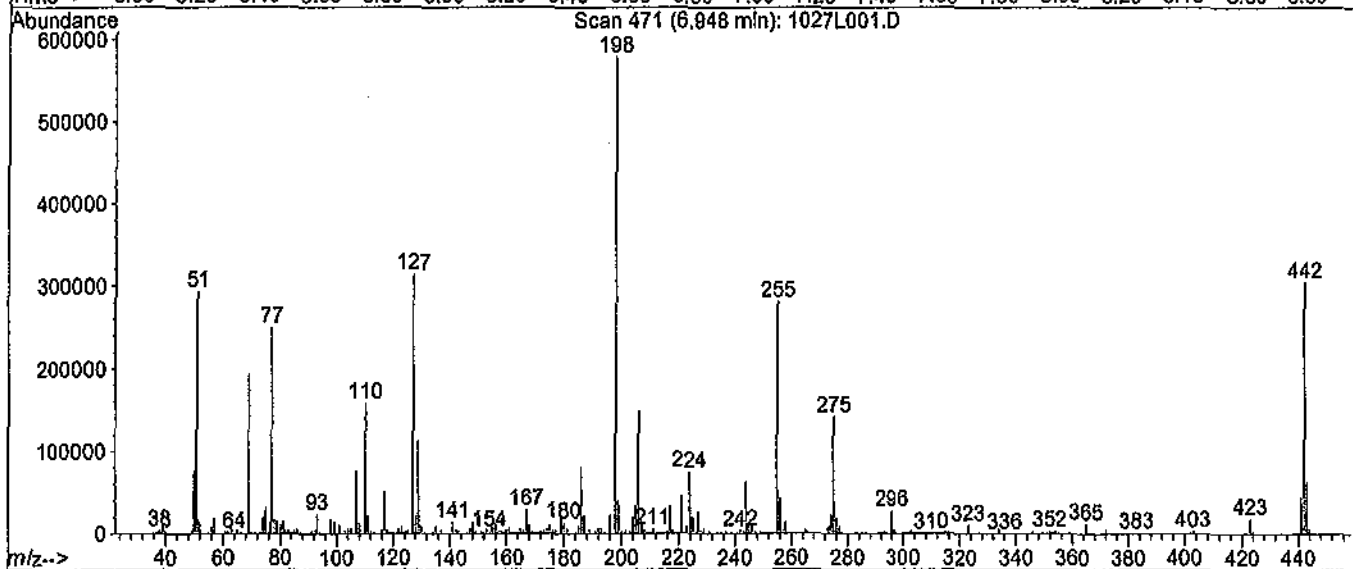
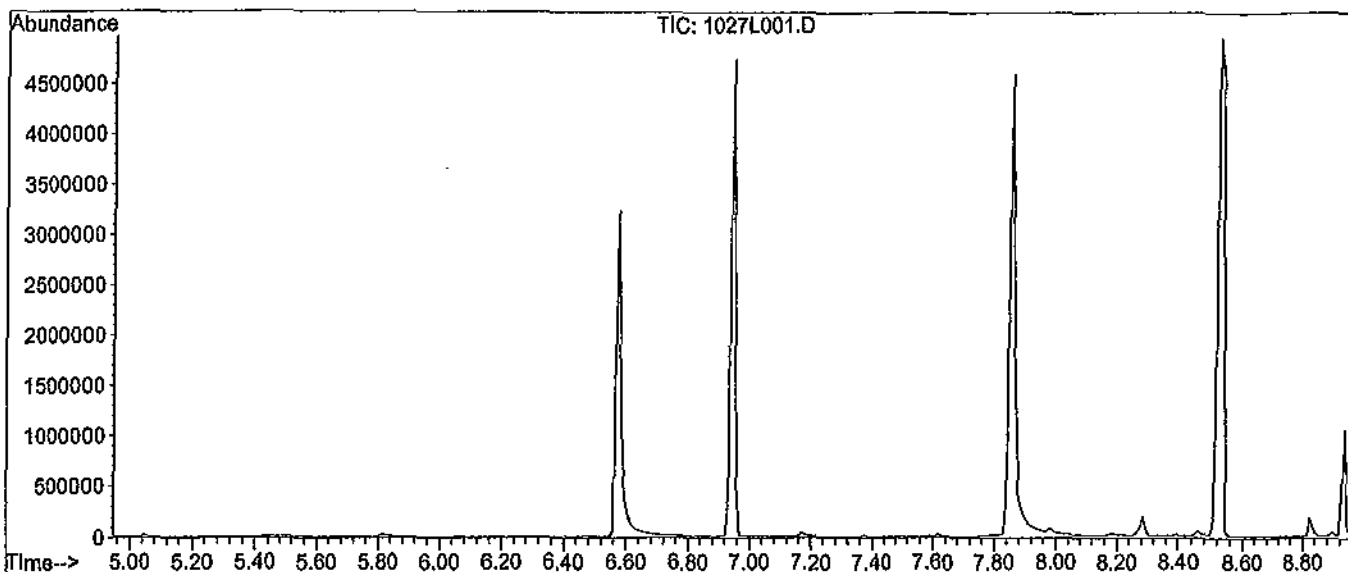
Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 08 16:22:04 2011
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L111027\1027L001.D
 Acq On : 27 Oct 11 18:29
 Sample : SVTUNE 10-27-11
 Misc :

Vial: 1
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C



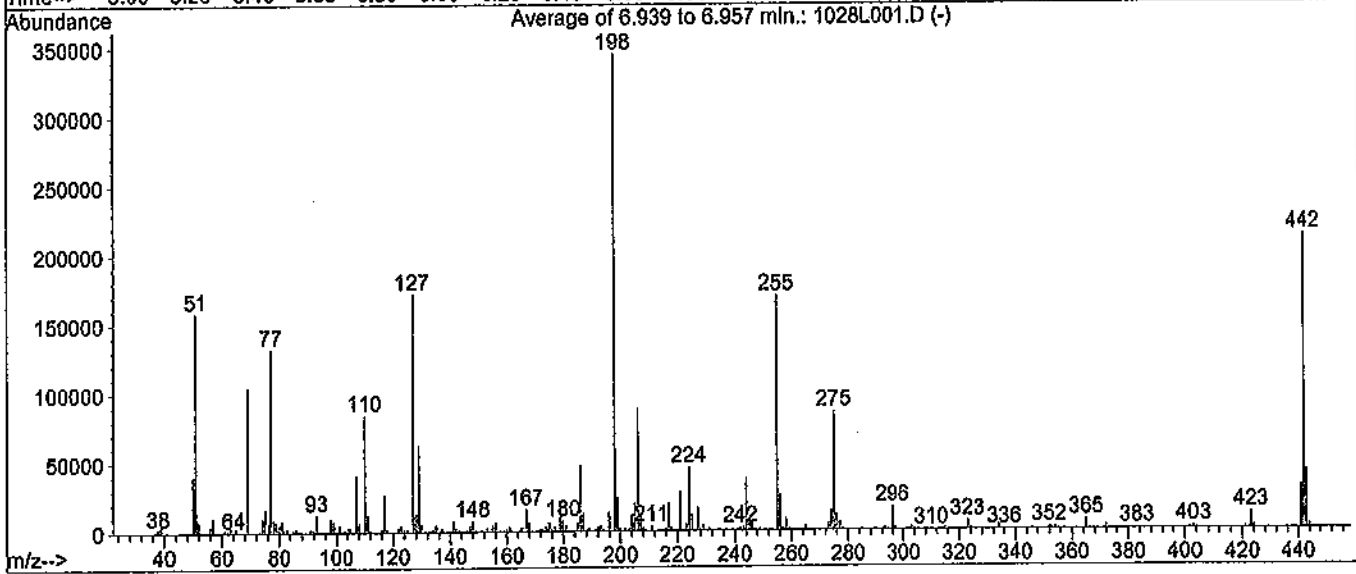
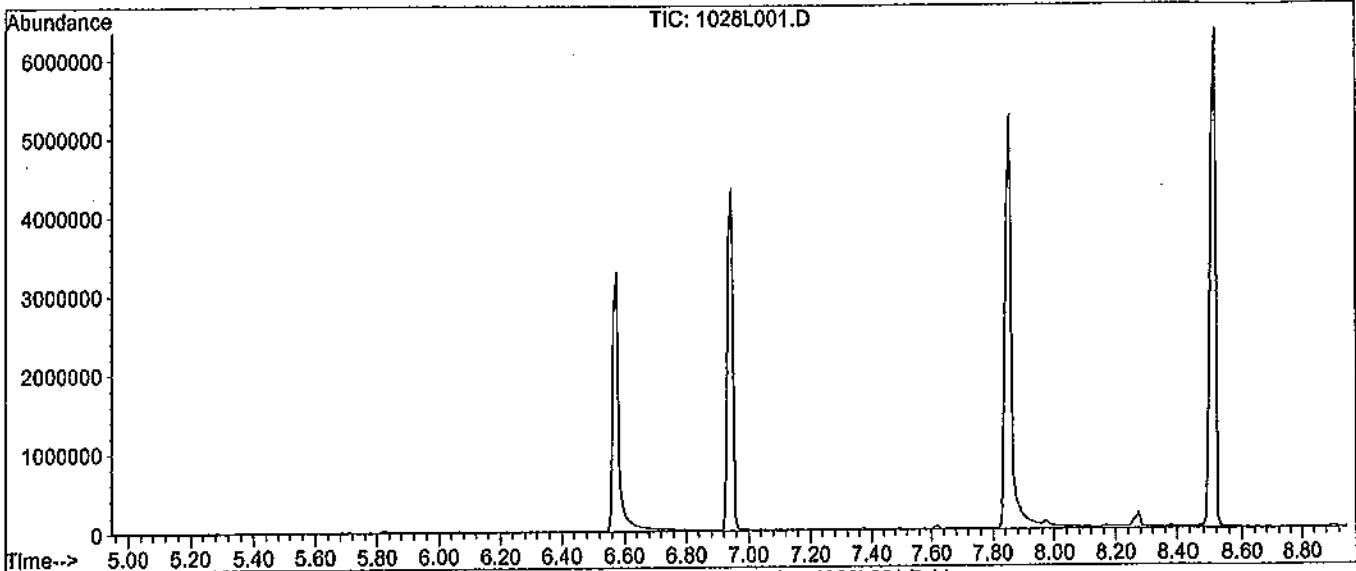
Spectrum Information: Scan 471

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	50.7	294016	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	1188	PASS
127	198	40	60	54.3	314624	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	579520	PASS
199	198	5	9	7.0	40304	PASS
275	198	10	30	24.5	141888	PASS
365	198	1	100	2.0	11470	PASS
441	443	0.01	100	70.8	44728	PASS
442	198	40	150	52.6	304768	PASS
443	442	17	23	20.7	63176	PASS

Data File : M:\LINUS\DATA\L111027\1028L001.D
 Acq On : 28 Oct 11 9:32
 Sample : SVTUNE 10-27-11
 Misc :

Vial: 1
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C



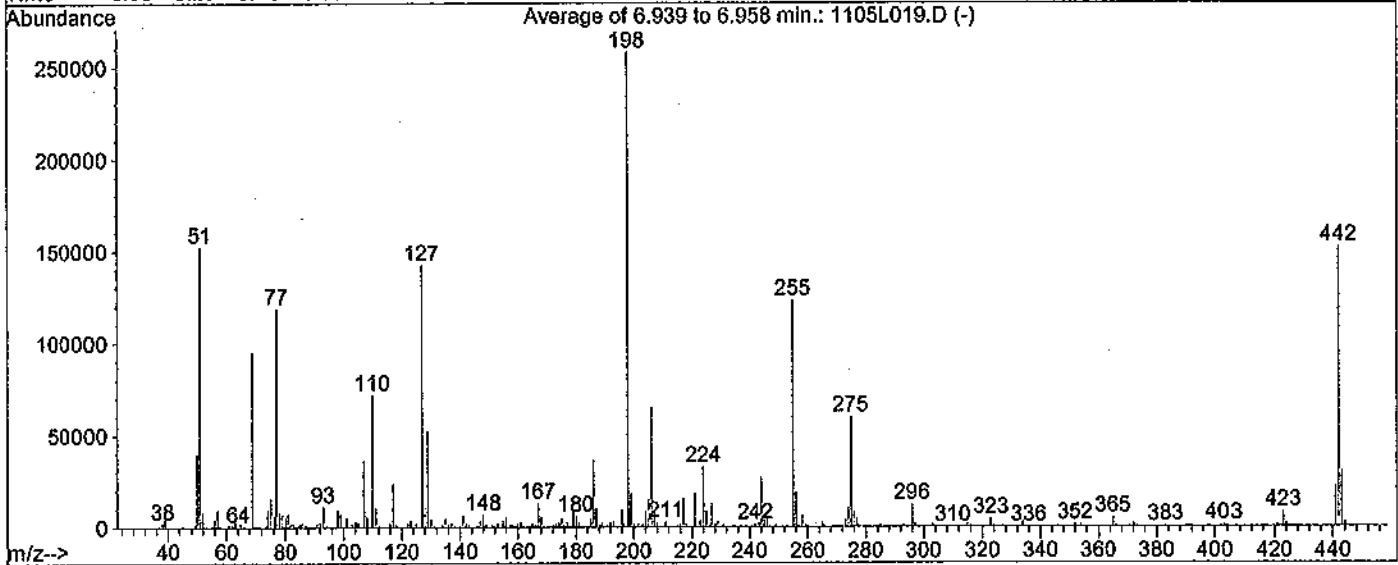
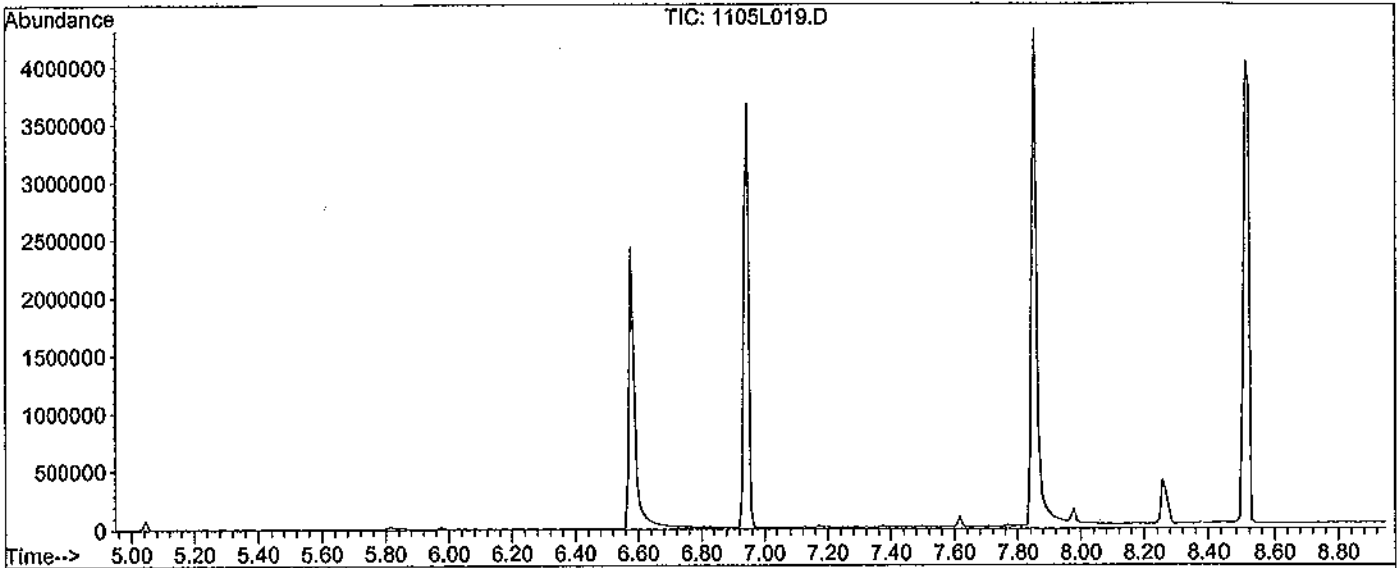
Spectrum Information: Average of 6.939 to 6.957 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.8	158326	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	519	PASS
127	198	40	60	49.8	171922	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	345360	PASS
199	198	5	9	7.1	24580	PASS
275	198	10	30	24.8	85541	PASS
365	198	1	100	2.0	6987	PASS
441	443	0.01	100	74.7	31248	PASS
442	198	40	150	61.5	212309	PASS
443	442	17	23	19.7	41843	PASS

Data File : M:\LINUS\DATA\L111027\1105L019.D
 Acq On : 5 Nov 11 16:36
 Sample : SVTUNE 10-27-11
 Misc :

Vial: 19
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C



Spectrum Information: Average of 6.939 to 6.958 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	59.0	152381	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	557	PASS
127	198	40	60	55.1	142318	PASS
197	198	0.00	1	0.5	1197	PASS
198	198	100	100	100.0	258253	PASS
199	198	5	9	7.1	18230	PASS
275	198	10	30	23.2	59874	PASS
365	198	1	100	1.9	4901	PASS
441	443	0.01	100	73.0	21870	PASS
442	198	40	150	58.8	151760	PASS
443	442	17	23	19.7	29958	PASS

VF 11711

PREP DATE: 01-17-11		8270C Stock/Spike Standard									
Exp:	05-29-11	Conc.		Date	CODE:	P					
Supplier	ID #	µg/mL	Lot #	Code	Exp. Date	µL					
Absolute	10001	2000	032009-28092	01/17/11	03-20-12	1000					
Absolute	10001	2000	032009-28091	01/17/11	03-20-12	1000					
Absolute	10002	2000	073109-27974	01/17/11	07-31-12	1000					
Absolute	10002	2000	073109-27973	01/17/11	07-31-12	1000					
Absolute	10004	2000	101509-27979	01/17/11	10-15-14	1000					
Absolute	10004	2000	101509-27978	01/17/11	10-15-14	1000					
Absolute	10005	2000	061209-27984	01/17/11	06-12-14	1000					
Absolute	10005	2000	061209-27983	01/17/11	06-12-14	1000					
Absolute	10006	2000	120810-27989	01/17/11	12-08-13	1000					
Absolute	10006	2000	120810-27988	01/17/11	12-08-13	1000					
Absolute	10007	2000	100909-28010	01/17/11	10-09-14	1000					
Absolute	10007	2000	100909-28013	01/17/11	10-09-14	1000					
Absolute	10018	2000	073109-27994	01/17/11	07-31-14	1000					
Absolute	10018	2000	073109-27993	01/17/11	07-31-14	1000					
Absolute	70023	1000	080310-28008	01/17/11	08-03-15	1000					
Absolute	70023	1000	080310-28009	01/17/11	08-03-15	1000					
Absolute	82705	2000	121010-27999	01/17/11	12-10-13	1000					
Absolute	82705	2000	121010-27998	01/17/11	12-10-13	1000					
Absolute	94552	2000	052908-28004	01/17/11	05-29-11	1000					
Absolute	94552	2000	052908-28003	01/17/11	05-29-11	1000					
							Final Vol	20000			

VF 4374

PREP DATE: 01-25-11		8270F STANDARD CURVE															
Exp:	02-24-11	Conc.		Date		0.1	0.2	1	2	10	20	40	50	60	80	100	
Supplier	ID #	µg/mL	Lot #	Code	Exp. Date	µL	µL	µL	µL	µL	µL	µL	µL	µL	µL	µL	µL
8270F Stock	200			12/17/10	05-29-11	0	0	0	5	5	10	20	25	30	40	50	
5.0ug/mL				01/25/11		0	0	20	0	0	0	0	0	0	0	0	
1.0ug/mL				01/25/11		10	20	0	0	0	0	0	0	0	0	0	
Surrogate Stock	VAR	160538-27570		11/11/10	11-11-11	0	0	0	5	5	10	20	25	30	40	50	
EM science	Methylene chloride	47080				90	80	80	190	90	80	60	50	40	20	0	
				Final Vol.		100	200	100	100	100	100	100	100	100	100	100	

VF 11274

PREP DATE: 01-25-11		8270 Second Source (SS) 50ug/mL					
Supplier	ID #	Conc.		Date	CODE:	µL	
EM science	8270C SS	200		10/06/10	10-06-11	25	
							Final Vol.
							100

VF 1624

Method 8270 Internal Standard Solution, 2,000 mg/L, 1 ml
 110001-02
 Lot# Storage Expiry
 167766 5-10 Degree C 4/30/13
 Solv: Methylene Chloride
 8270 Internal Standard
 Lot #: 167766 - 28148
 Rec: 1/20/11 MFR exp. 04/20/13


exp 1/25/12

VF 42574

Method 8270 Internal Standard Solution, 2,000 mg/L, 1 ml
 110001-02
 Lot# Storage Expiry
 167766 5-10 Degree C 4/30/13
 Solv: Methylene Chloride
 8270 Internal Standard
 Lot #: 167766 - 28147
 Rec: 1/20/11 MFR exp. 04/20/13


exp 1/25/12

VF 3/23/11

Part #: 94552 Laboratory Use Only-See MSDS
 Lot #: 052908 Exp: 052911 1 mL
 Semi-Volatile Standard
 11 components
 Varied ug/mL in
ABSOLUTE STANDARDS
 Lot #: 052908 - 28001
 Rec: 12/16/10 MFR exp. 05/29/11


exp 5/29/11

VF 3/23/11

Part #: 94552 Laboratory Use Only-See MSDS
 Lot #: 052908 Exp: 052911 1 mL
 Semi-Volatile Standard
 11 components
 Varied ug/mL in
ABSOLUTE STANDARDS
 Lot #: 052908 - 28002
 Rec: 12/16/10 MFR exp. 05/29/11


exp 5/29/11

VF 3/23/11

Part #: 82705 Laboratory Use Only - See MSDS
 Lot #: 121010 Exp: 121013 Storage 4 °C
 EPA Method 8270A EPA Method 8270A-Mix#11
 4 components
 2000 ug/mL in ace
ABSOLUTE STANDARDS, INC.
 Lot #: 121010 - 27996
 Rec: 12/16/10 MFR exp. 12/10/13

exp 5/29/11

VF 3/23/11

Part #: 82705 Laboratory Use Only - See MSDS
 Lot #: 121010 Exp: 121013 Storage 4 °C
 EPA Method 8270A - Mix #11
 4 components / EPA Method 8270A-Mix#11
 2000 ug/mL in ace
ABSOLUTE STANDARDS
 Lot #: 121010 - 27997
 Rec: 12/16/10 MFR exp. 12/10/13

exp 5/29/11

VF 3/23/11

Supplier	ID #	Conc. ug/mL	Lot #	Date Code	Exp. Date	µL
Absolute	10001	2000	032009-28089	03/23/11	03-20-12	1000
Absolute	10001	2000	320009-28090	03/23/11	03-20-12	1000
Absolute	10002	2000	073109-27971	03/23/11	07-31-12	1000
Absolute	10002	2000	073109-27972	03/23/11	07-31-12	1000
Absolute	10004	2000	101509-27976	03/23/11	10-15-14	1000
Absolute	10004	2000	101509-27977	03/23/11	10-15-14	1000
Absolute	10005	2000	061209-27981	03/23/11	06-12-14	1000
Absolute	10005	2000	061209-27982	03/23/11	06-12-14	1000
Absolute	10006	2000	120810-27986	03/23/11	12-08-13	1000
Absolute	10006	2000	120810-27987	03/23/11	12-08-13	1000
Absolute	10007	2000	100909-28015	03/23/11	10-09-14	1000
Absolute	10007	2000	100909-28014	03/23/11	10-09-14	1000
Absolute	10018	2000	073109-27991	03/23/11	07-31-14	1000
Absolute	10018	2000	073109-27992	03/23/11	07-31-14	1000
Absolute	70023	1000	080310-28006	03/23/11	08-03-15	1000
Absolute	70023	1000	080310-28007	03/23/11	08-03-15	1000
Absolute	82705	2000	052908-28001	03/23/11	05-29-11	1000
Absolute	82705	2000	052908-28002	03/23/11	05-29-11	1000
Absolute	94552	2000	121010-27996	03/23/11	12-10-13	1000
Absolute	94552	2000	121010-27997	03/23/11	12-10-13	1000
Final Vol						20000

VF 3/23/11

91M IS exp 1/25/12
 1500µl EM Science MC Lot #47080²⁰¹
 100µl 8270 IS exp 1/25/11 exp 1/25/12

VF 3/28/11

o2si 8270 BN:A (200:400) Surrogate Solution, 1 ml
 Lot No: 160538 Storage: <-10 Degrees C
 Lot #: 160538 Solvent: Methylene Chloride
 Date Opened: 8270 BN:A (200:400) Surrogate Solution
 Lot #: 160538 - 27574
 Rec: 10/18/10 MFR exp. 08/10/12

VF ap 3/28/12

VF 3/28/11

PREP DATE: 03-28-11						UP										
8270T STANDARD CURVE																
Exp:	04-27-11					0.1	0.2	1	5	10	20	40	50	60	80	100
Supplier	ID #	Conc. µg/mL	Lot #	Date	Exp. Date	µL	µL	µL	µL	µL	µL	µL	µL	µL	µL	
8270T Stock	200			03/23/11	05-29-11	0	0	0	5	5	10	20	25	30	40	50
5.0ug/mL				03/28/11		0	0	20	0	0	0	0	0	0	0	0
1.0ug/mL				03/28/11		10	20	0	0	0	0	0	0	0	0	0
Surrogate Stock	VAR	160538-27574		03/28/11	03-28-12	0	0	0	5	5	10	20	25	30	40	50
EM Science	Methylene Chloride	47080				90	80	80	190	90	80	60	50	40	20	0
					Final Vol.			100	200	100	100	100	100	100	100	100

VF 3/28/11

PREP DATE: 03-28-11						
8270 Second Source (SS) 50ug/mL						
Supplier	ID #	Conc. µg/mL	Lot #	Date	Exp. Date	CODE: µL
EM Science	8270C SS	200		10/06/10	10-06-11	25
			47080			75
					Final Vol.	100

VF 4/15/11

GCM-150-1 **ULTRA**
 Lot: CF-2995 1 mL
 Exp: 08/31/2011
 Semi-Volatiles GC/MS Tuning Standard
 Lot #: CF-2995 - 26131
 Rec: 2/17/10 MFR exp. 08/31/11
 4 analyte(s) at 1000 µg/mL in dichloromethane
 250 Smith St. #6 Kingstown, RI 02882 USA

VF exp 8/31/11

VF 4/13/11

VF

PREP DATE: 04-13-11						
SV Tune Mix 50ug/ml						
Supplier	ID #	Conc. µg/mL	Lot #	Date	Exp. Date	CODE: µL
G. Scientific	GCM-150	1000	CF-2995-26131	04/13/11	08-31-11	1000
EM Science	MeC12		47080			19000
					Final Vol	20000

exp 8/31/11

VF 4/20/11

8270D PAH SIM Solution,
 200 mg/L, 1 ml
 Lot #: 170263-28485
 Storage: -5 to 10 Degrees C
 Solv: Methylene Chloride

VF exp 4/20/12

8270D PAH SIM
 Lot #: 170263 - 28485
 Rec: 3/10/11 MFR exp. 3/3/2013

VF 4/13/11

8270D PAH SIM Solution,
 Second Source, 200 mg/L, 1 ml
 Lot #: 170256-28487
 Storage: -5 to 10 Degrees C
 Solv: Methylene Chloride

VF exp 4/20/12

8270D PAH SIM (SS)
 Lot #: 170256 - 28487
 Rec: 3/10/11 MFR exp. 3/3/2013

1/8/10/11

PREP DATE:	08/16/11	exp:	08/23/11
10ug/mL 1,2,3-TCP			
50uL of 1000ug/mL 1,2,3 TCP into a final volume of 5mL of P&T Methanol			
1000ug/mL 1,2,3 TCP date code:		05/27/11	
P & T Methanol Lot #		9077-02	
PREP DATE:	08/16/11	exp:	08/23/11
1ug/mL 1,2,3-TCP			
5uL of 1000ug/mL 1,2,3 TCP into a final volume of 5mL of P&T Methanol			
1000ug/mL 1,2,3 TCP date code:		05/27/11	
P & T Methanol Lot #		JT Baker H46E44	
PREP DATE:	08/16/11	exp:	08/23/11
2ug/mL 1,2,3-TCPd5			
10uL of 2000ug/mL 1,2,3 TCP into a final volume of 10mL of P&T Methanol			
2000ug/mL 1,2,3 TCP-d5 date code:		05/27/11	
P & T Methanol Lot #		9077-02	

1/8/10/11

8270 BNA (200:400)
 Surrogate Solution, 1 ml
 11000-17
 Lot # Storage Expiry
 167802 5-10 Degrees C 12/13
 80% Methylene Chloride
 8270 BNA (200:400) Surrogate Solution
 Lot #: 167802-29313
 Rec: 8/8/11 MFR exp: 01/09/13

exp 8/23/12

1/8/10/11

PREP DATE:	08-22-11											
8270 STANDARD CURVE												
Exp:	08-22-11											
	Conc.	Date	5	10	20	40	50	60	80	100		
Supplier	ID #	Lot #	Code	Exp. Date	µL	µL	µL	µL	µL	µL	µL	µL
	8270T Stock	200	07/26/11	01-26-12	5	5	10	20	25	30	40	50
	Surrogate Stock	VAR	167802-29313	08/22/11	08-22-12	5	5	10	20	25	30	40
EM Science	Methylene Chloride	47186			190	90	80	60	50	40	20	0
				Final Vol.	200	100	100	100	100	100	100	100

1/8/10/11

PREP DATE:	08-22-11											
8270 Second Source (88) 50ug/mL												
	Conc.	Date	50									
Supplier	ID #	Lot #	Code	Exp. Date	µL							
	8270C SS	200	10/06/10	10-06-11	25							
EM Science	Methylene Chloride	47186			75							
				Final Vol.	100							

1/8/10/11

PREP DATE:	09-21-11											
8270 SIM STANDARD CURVE												
	Conc.	Date	0.10	0.20	0.50	1.00	5.00	10.00	50.00	100.00		
Supplier	ID #	Lot #	Code	Exp. Date	µL	µL	µL	µL	µL	µL	µL	µL
	8270D PAK SIM	200	170253-28485	04/20/11	04-20-12	0	0	0	0	5	5	25
	5.0ug/mL	5		09/21/11		0	0	10	20	0	0	0
	1.0ug/mL	1		09/21/11		10	20	0	0	0	0	0
	Surrogate Stock	VAR	167802-29313	08/22/11	08-23-11	0	0	0	0	5	5	25
EM Science	Methylene Chloride	47186				90	80	90	80	190	90	50
				Final Vol.		100	100	100	100	200	100	100

10/18/11

Method 8270 Internal Standard Solution, 2,000 mg/L, 1 mL
 Lot #: 167766 - 28149
 Exp: 04/20/13
 Rec: 1/20/11 MFR exp. 04/20/13

Method 8270 Internal Standard Solution, 2,000 mg/L, 1 mL
 Lot #: 167766 - 28150
 Exp: 04/20/13
 Rec: 1/20/11 MFR exp. 04/20/13

exp 10/18/12

10/27/11

GCM-160-1
 Lot: CH-2137
 Exp: 07/31/2013
 Semi-Volatiles GC/MS Tuning Standard
 4 analyte(s) at 1000 µg/mL in dichloromethane
 250 Smith St, No Kingstown, RI 02852 USA



exp 10/27/12

50 µg/mL SV Tune Mix 1 mL of GCM-150-1 lot # CH2137 into 1 µm of Gen Science MC lot # 42080.

10/27/11

PREP DATE:	10-27-11												
8270 SIM STANDARD CURVE													
						0.10	0.20	0.50	1.00	5.00	10.00	50.00	100.00
	Conc.	Date	CODE:	A	A	C	D	E	F	G	H		
Supplier	ID #	µg/mL	Lot #	Code	Exp. Date	µL	µL	µL	µL	µL	µL	µL	µL
8270D PAH SIM	200	170253-28485	04/20/11	04-20-12	0	0	0	0	5	5	25	50	
5.0ug/mL	5		10/27/11		0	0	10	20	0	0	0	0	
1.0ug/mL	1		10/27/11		10	20	0	0	0	0	0	0	
Surrogate Stock	VAR	167802-29313	08/22/11	08-22-12	0	0	0	0	5	5	25	50	
EM Science	Methylene Chloride	47186				90	80	90	80	190	90	50	0
				Final Vol.		100	100	100	100	200	100	100	100

10/27/11

PREP DATE:	10-27-11												
SIM 8270 Second Source (5µg/mL)													
Exp:	11-10-11												
Supplier	ID #	µg/mL	Lot #	Code	Exp. Date	µL							
8270D PAH SIM (SS)		200	170256-28487	04/20/11	04-20-12	5							
	MeCl2										195		
												Final Volume	200

11/18/11

PREP DATE:	11-08-11												
8270 STANDARD CURVE													
Exp:	11-15-11												
	Conc.	Date	CODE:	5	10	20	40	50	60	80	100		
Supplier	ID #	µg/mL	Lot #	Code	Exp. Date	µL	µL	µL	µL	µL	µL	µL	µL
8270T Stock	200	10/18/11	04-18-12	5	5	10	20	25	30	40	50		
Surrogate Stock	VAR	167802-29313	08/22/11	08-22-12	5	5	10	20	25	30	40	50	
EM Science	Methylene Chloride	47186				190	90	80	60	50	40	20	0
				Final Vol.		200	100	100	100	100	100	100	100

11/18/11

PREP DATE:	11-08-11											
8270 Second Source (SS) 50ug/mL												
	Conc.	Date	CODE:	50								
Supplier	ID #	µg/mL	Lot #	Code	Exp. Date	µL						
8270C SS	200	10/11/11	04-12-12	25								
EM Science	Methylene Chloride	47186				75						
				Final Vol.		100						

Organic Extraction Worksheet

Method	SIM Separatory Funnel Extra 3510C	Extraction Set	111031A	Extraction Method	SEP004S	Units	mL
Spiked ID 1	SIM Spike 178987-29587	Surrogate ID 1	8270 SIM Surrogate 172835-28827				
Spiked ID 2		Surrogate ID 2					
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		YBS			
Spiked ID 7		Ext. Start Time:					
Spiked ID 8		Ext. End Time:					
		GC Requires Extract By:		11/02/11 0:00			
		pH1	2	11/20/2011 11:25:00 AM	Water Bath Temp Criteria 80 °C		
		pH2	14	11/31/2011 4:00:00 PM			
		pH3					

Spiked By: HW

Date 10/31/2011

Witnessed By: DL

Date 10/31/2011

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1 111031A BIK				0.025	1	1000	1	2/1	10/31/11 11:20	
					equip	E-WB5				
2 111031A LCS-1		0.025	1	0.025	1	1000	1	2/1	10/31/11 11:20	
					equip	E-WB5				
3 AY49327	AY49327W08			0.025	1	1040	1	2/1	10/31/11 11:20	66103-1 WEEK RUSH -- Amber Liter
					equip	E-WB5				
4 AY49328	AY49328W04			0.025	1	1040	1	2/1	10/31/11 11:20	66103-1 WEEK RUSH -- Amber Liter
					equip	E-WB5				
5 AY49329	AY49329W04			0.025	1	1030	1	2/1	10/31/11 11:20	66103-1 WEEK RUSH -- Amber Liter
					equip	E-WB5				
6 AY49330	AY49330W07			0.025	1	1040	1	2/1	10/31/11 11:20	66103-1 WEEK RUSH -- Amber Liter
					equip	E-WB5				
7 AY49331	AY49331W07			0.025	1	1030	1	2/1	10/31/11 11:20	66103-1 WEEK RUSH -- Amber Liter
					equip	E-WB5				
8 AY49333	AY49333W10			0.025	1	1050	1	2/1	10/31/11 11:20	66102-2 WEEK RUSH -- Amber Liter
					equip	E-WB5				
9 AY49334 MS-1	AY49334W30	0.025	1	0.025	1	1030	1	2/1	10/31/11 11:20	66102-2 WEEK RUSH -- Amber Liter
					equip	E-WB5				
10 AY49334 MSD-1	AY49334W34	0.025	1	0.025	1	1030	1	2/1	10/31/11 11:20	66102-2 WEEK RUSH -- Amber Liter
					equip	E-WB5				
11 AY49334	AY49334W29			0.025	1	1050	1	2/1	10/31/11 11:20	66102-2 WEEK RUSH -- Amber Liter
					equip	E-WB6				
12 AY49336	AY49336W10			0.025	1	1030	1	2/1	10/31/11 11:20	66102-2 WEEK RUSH -- Amber Liter
					equip	E-WB6				
13 AY49481	AY49481W08			0.025	1	1050	1	2/1	10/31/11 11:20	66116-2 WEEK RUSH -- Amber Liter
					equip	E-WB6				

Solvent and Lot#	
MC	EMD 51204
Na2SO4	3581C501
10N NaOH	10/31/11
1+1 Acid	09/15/11
A. Na2SO4	10/31/11

Extraction COC Transfer	
Extraction lab employee Initials	HW
GC analyst's initials	HW
Date	11/5/11
Time	8:00
Refrigerator	Holiday

Technician's Initials	
Scanned By	HW
Sample Preparation	CC
Extraction	HW/DL/JL
Concentration	JL
Modified	10/31/2011 10:48:43 AM

Reviewed By: HW 205 Date 11/1/2011

Organic Extraction Worksheet

Method	SIM Separatory Funnel Extra 3510C	Extraction Set	111031A	Extraction Method	SEP004S	Units	mL
Spiked ID 1	SIM Spike 178987-29587	Surrogate ID 1	8270 SIM Surrogate 172835-28827				
Spiked ID 2		Surrogate ID 2					
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		YES			
Spiked ID 7		Ext. Start Time:					
Spiked ID 8		Ext. End Time:					
GC Requires Extract By:			11/02/11 0:00				
pH1	2	31/2011 11:25:00 AM		Water Bath Temp Criteria		80 °C	
pH2	14	7/31/2011 4:00:00 PM					
pH3							

Spiked By: HW

Date 10/31/2011

Witnessed By: DL

Date 10/31/2011

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
14AY49482	AY49482W08			0.025	1	1030	1	2/1	10/31/11 11:20	66116-2 WEEK RUSH -- Amber Liter
						equip	E-WB6			

HW 11/1/11

Solvent and Lot#	
MC	EMD 51204
Na2SO4	3581C501
10N NaOH	10/31/11
1+1 Acid	09/15/11
A. Na2SO4	10/31/11

Extraction COC Transfer	
Extraction lab employee Initials	HW
GC analyst's initials	HW
Date	11/5/11
Time	8:00
Refrigerator	10/31/11

Technician's Initials	
Scanned By	HW
Sample Preparation	CC
Extraction	HW/DL/JL
Concentration	JL
Modified	10/31/2011 10:48:43 AM

Reviewed By: HW 206 Date 11/1/2011

Injection Log

Directory: M:\LINUS\DATA\111027\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	1027L001.D	1	SVTUNE 10-27-11		27 Oct 11 18:29
2	3	1027L003.D	1	0.1ug/ml PAH 10-27-11		27 Oct 11 19:12
3	4	1027L004.D	1	0.2ug/ml PAH		27 Oct 11 19:38
4	1	1028L001.D	1	SVTUNE 10-27-11		28 Oct 11 9:32
5	5	1028L005.D	1	0.5ug/ml PAH		28 Oct 11 11:07
6	6	1028L006.D	1	1.0ug/ml PAH		28 Oct 11 11:32
7	7	1028L007.D	1	5.0ug/ml PAH		28 Oct 11 11:58
8	8	1028L008.D	1	10ug/ml PAH		28 Oct 11 12:23
9	9	1028L009.D	1	50ug/ml PAH		28 Oct 11 12:49
10	10	1028L010.D	1	100ug/ml PAH		28 Oct 11 13:14
11	11	1028L011.D	1	5.0ug/ml SS PAH 10-27-11		28 Oct 11 13:40
12	19	1105L019.D	1	SVTUNE 10-27-11		5 Nov 11 16:36
13	20	1105L020.D	1	5.0ug/ml PAH 10-27-11		5 Nov 11 16:54
14	28	1105L028.D	1	111031A BLK 1/1000		5 Nov 11 20:15
15	29	1105L029.D	1	111031A LCS-1 1/1000		5 Nov 11 20:41
16	40	1105L040.D	0.95238	AY49481W08 1/1050		6 Nov 11 1:16
17	41	1105L041.D	0.97087	AY49482W08 1/1030		6 Nov 11 1:41

EPA METHOD 8260B
Volatile Organic Compounds



EPA METHOD 8260B
Volatile Organic Compounds
QC Summary

Method Blank
EPA 8260B VOCs + Gas Water

Blank Name/QCG: 111031W-49559 - 161078
Batch ID: #86RHB-111031AC

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1,1,1,2-TETRACHLOROETHANE	0.26 U	1.0	0.26	0.13	ug/L	11/01/11	11/01/11
BLANK	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/01/11	11/01/11
BLANK	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	11/01/11	11/01/11
BLANK	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	11/01/11	11/01/11
BLANK	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
BLANK	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	11/01/11	11/01/11
BLANK	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	11/01/11	11/01/11
BLANK	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	11/01/11	11/01/11
BLANK	1,2-DIBROMO-3-CHLOROPROPA	1.52 U	2.0	1.52	0.76	ug/L	11/01/11	11/01/11
BLANK	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	11/01/11	11/01/11
BLANK	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	11/01/11	11/01/11
BLANK	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/01/11	11/01/11
BLANK	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	11/01/11	11/01/11
BLANK	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	11/01/11	11/01/11
BLANK	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	11/01/11	11/01/11
BLANK	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
BLANK	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	11/01/11	11/01/11
BLANK	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	11/01/11	11/01/11
BLANK	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	11/01/11	11/01/11
BLANK	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	11/01/11	11/01/11
BLANK	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/01/11	11/01/11
BLANK	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	11/01/11	11/01/11
BLANK	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	11/01/11	11/01/11
BLANK	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	11/01/11	11/01/11
BLANK	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	11/01/11	11/01/11
BLANK	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
BLANK	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	11/01/11	11/01/11
BLANK	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	11/01/11	11/01/11
BLANK	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	11/01/11	11/01/11
BLANK	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	11/01/11	11/01/11
BLANK	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	11/01/11	11/01/11
BLANK	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	11/01/11	11/01/11
BLANK	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
BLANK	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	11/01/11	11/01/11

Quant Method: CALLW.M
Run #: 1031C08
Instrument: Chico
Sequence: C111030
Initials: ARS

GC SC-Blank-REG MDLs
Printed: 12/06/11 6:14:10 PM

Method Blank
EPA 8260B VOCs + Gas Water

Blank Name/QCG: 111031W-49559 - 161078
 Batch ID: #86RHB-111031AC

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	11/01/11	11/01/11
BLANK	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	11/01/11	11/01/11
BLANK	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	11/01/11	11/01/11
BLANK	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	11/01/11	11/01/11
BLANK	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
BLANK	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	11/01/11	11/01/11
BLANK	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	11/01/11	11/01/11
BLANK	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
BLANK	SURROGATE: 1,2-DICHLOROET	103	70-120			%	11/01/11	11/01/11
BLANK	SURROGATE: 4-BROMOFLUORO	101	75-120			%	11/01/11	11/01/11
BLANK	SURROGATE: DIBROMOFLUOR	97.4	85-115			%	11/01/11	11/01/11
BLANK	SURROGATE: TOLUENE-D8 (S)	101	85-120			%	11/01/11	11/01/11

Quant Method: CALLW.M
 Run #: 1031C08
 Instrument: Chico
 Sequence: C111030
 Initials: ARS

GC SC-Blank-REG MDLs
 Printed: 12/06/11 6:14:10 PM

Surrogate Recovery

Lab Name: APPL, Inc.
 Case No: 66116
 Matrix: WATER

SDG No: 66116
 Date Analyzed: 10/31/11
 Instrument: Chico

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)			SURROGATE: 4-BROMOFLUOROBENZENE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
111031AC-LCS	Lab Control Spike	70-120	98.7		75-120	99.8	
111031AC-BLK	Blank	70-120	103		75-120	101	
AY49483	ES052	70-120	99.0		75-120	99.9	
AY49481	ES050	70-120	103		75-120	101	
AY49482	ES051	70-120	106		75-120	110	

Comments: Batch: #86RHB-111031AC

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 66116

Case No: 66116

Date Analyzed: 10/31/11

Matrix: WATER

Instrument: Chico

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
111031AC-LCS	Lab Control Spike	85-115	103		85-120	99.2	
111031AC-BLK	Blank	85-115	97.4		85-120	101	
AY49483	ES052	85-115	100		85-120	99.9	
AY49481	ES050	85-115	100		85-120	101	
AY49482	ES051	85-115	105		85-120	110	

Comments: Batch: #86RHB-111031AC

Laboratory Control Spike Recovery
EPA 8260B VOCs + Gas Water

APPL ID: 111031W-49559 LCS - 161078
 Batch ID: #86RHB-111031AC

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1,1,1,2-TETRACHLOROETHANE	10.00	9.47	94.7	80-130
1,1,1-TRICHLOROETHANE	10.00	8.95	89.5	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	10.1	101	65-130
1,1,2-TRICHLOROETHANE	10.00	9.61	96.1	75-125
1,1-DICHLOROETHANE	10.00	9.36	93.6	70-135
1,1-DICHLOROETHENE	10.00	8.56	85.6	70-130
1,2,3-TRICHLOROPROPANE	10.00	9.82	98.2	75-125
1,2,4-TRICHLOROBENZENE	10.00	9.19	91.9	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	8.49	84.9	50-130
1,2-DIBROMOETHANE	10.00	9.29	92.9	70-130
1,2-DICHLOROBENZENE	10.00	9.16	91.6	70-120
1,2-DICHLOROETHANE	10.00	8.73	87.3	70-130
1,2-DICHLOROPROPANE	10.00	9.52	95.2	75-125
1,3-DICHLOROBENZENE	10.00	9.06	90.6	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	18.9	94.5	70-130
1,4-DICHLOROBENZENE	10.00	9.03	90.3	75-125
2-BUTANONE	10.00	9.19	91.9	30-150
4-METHYL-2-PENTANONE	10.00	9.90	99.0	60-135
ACETONE	10.00	12.0	120	40-140
BENZENE	10.00	9.33	93.3	80-120
BROMODICHLOROMETHANE	10.00	9.53	95.3	75-120
BROMOFORM	10.00	8.49	84.9	70-130
BROMOMETHANE	10.00	9.52	95.2	30-145
CARBON TETRACHLORIDE	10.00	9.31	93.1	65-140
CHLOROBENZENE	10.00	8.90	89.0	80-120
CHLORODIBROMOMETHANE	10.00	9.21	92.1	60-135

Comments:

<u>Primary</u>	<u>SPK</u>
Quant Method :	CALLW.M
Extraction Date :	10/31/11
Analysis Date :	10/31/11
Instrument :	Chico
Run :	1031C03
Initials :	ARS

Printed: 12/06/11 6:14:16 PM

APPL Standard LCS

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: 111031W-49559 LCS - 161078

Batch ID: #86RHB-111031AC

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
CHLOROETHANE	10.00	9.08	90.8	60-135
CHLOROFORM	10.00	8.96	89.6	65-135
CHLOROMETHANE	10.00	8.78	87.8	40-125
CIS-1,2-DICHLOROETHENE	10.00	8.91	89.1	70-125
ETHYLBENZENE	10.00	8.78	87.8	75-125
GASOLINE	300	302	101	75-125
HEXACHLOROBUTADIENE	10.00	9.30	93.0	50-140
METHYL TERT-BUTYL ETHER	10.00	9.51	95.1	65-125
METHYLENE CHLORIDE	10.00	9.29	92.9	55-140
STYRENE	10.00	9.03	90.3	65-135
TETRACHLOROETHENE	10.00	9.03	90.3	45-150
TOLUENE	10.00	9.17	91.7	75-120
TRANS-1,2-DICHLOROETHENE	10.00	8.83	88.3	60-140
TRICHLOROETHENE	10.00	9.31	93.1	70-125
VINYL CHLORIDE	10.00	9.95	99.5	50-145
XYLENES (TOTAL)	30.0	26.6	88.7	80-120

SURROGATE: 1,2-DICHLOROETHANE-D	24.2	23.9	98.7	70-120
SURROGATE: 4-BROMOFLUOROBENZE	25.5	25.4	99.8	75-120
SURROGATE: DIBROMOFLUOROMETH	25.1	25.8	103	85-115
SURROGATE: TOLUENE-D8 (S)	25.8	25.6	99.2	85-120

Comments: _____

<u>Primary</u>	<u>SPK</u>
Quant Method :	CALLW.M
Extraction Date :	10/31/11
Analysis Date :	10/31/11
Instrument :	Chico
Run :	1031C03
Initials :	ARS

Printed: 12/06/11 6:14:16 PM

APPL Standard LCS

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 66116

Case No: 66116

Date Analyzed: 11/01/11

Matrix: WATER

Instrument: Chico

Blank ID: 111031AC-BLK

Time Analyzed: 0010

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
111031AC-LCS	Lab Control Spike	1031C03	10/31/11 2105
111031AC-BLK	Blank	1031C08	11/01/11 0010
AY49483	ES052	1031C10	11/01/11 0125
AY49481	ES050	1031C11	11/01/11 0202
AY49482	ES051	1031C12	11/01/11 0239

Comments: Batch: #86RHB-111031AC

Printed: 12/06/11 6:14:18 PM
Form 4, Blank Summary

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 66116
 Matrix: Water
 ID: 20ug/mL BFB STD10-19-11

SDG No: 66116
 Date Analyzed: 10/31/11
 Instrument: Chico
 Time Analyzed: 19:50

	Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	Lab Control Spike	111031A LCS-1WC	1031C03W.D	10/31/11 21:05
2	Lab Control Spike	111031A LCS-1WC (GAS	1031C05W.D	10/31/11 22:19
3	Blank	111031A BLK-1WC	1031C08W.D	11/01/11 0:10
4	ES052	AY49483W01	1031C10W.D	11/01/11 1:25
5	ES050	AY49481W04	1031C11W.D	11/01/11 2:02
6	ES051	AY49482W04	1031C12W.D	11/01/11 2:39
7				
8				
9				
10				
11				
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19				
20				
21				
22				

m/e

50 15 - 40% of mass 95	<u>21.0</u>
75 30 - 60% of mass 95	<u>47.5</u>
95 100 - 100% of mass 95	<u>100.0</u>
96 5 - 9% of mass 95	<u>7.0</u>
173 0 - 2% of mass 174	<u>0.3</u>
174 50 - 100% of mass 95	<u>82.2</u>
175 5 - 9% of mass 174	<u>7.8</u>
176 95 - 101% of mass 174	<u>99.0</u>
177 5 - 9% of mass 176	<u>7.3</u>

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 66116
 Lab File ID (Standard): 1030C20W.D Date Analyzed: 10/31/11
 Instrument ID: Chico Time Analyzed: 3:03
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Fluorobenzene (IS)		Chlorobenzene-D5 (IS)		1,4-Dichlorobenzene-D (IS)		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12 HOUR STD	556544	12.84	375296	18.04	203520	22.24	
UPPER LIMIT	1113088	13.34	750592	18.54	407040	22.74	
LOWER LIMIT	278272	12.34	187648	17.54	101760	21.74	
SAMPLE NO.							
01	111031A LCS-1WC	647984	12.85	454784	18.04	238016	22.25
02	111031A BLK-1WC	625564	12.85	421888	18.04	225152	22.25
03	AY49483W01	601728	12.85	413312	18.04	215360	22.25
04	AY49481W04	586092	12.85	399616	18.04	207936	22.25
05	AY49482W04	561792	12.85	373504	18.04	182464	22.25
06							
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22							

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

EPA METHOD 8260B
Volatile Organic Compounds
Sample Data

EPA 8260B VOCs + Gas Water

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacey Fineran

Project: RED HILL/1022-024

Sample ID: ES050

Sample Collection Date: 10/25/11

ARF: 66116

APPL ID: AY49481

QCG: #86RHB-111031AC-161078

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1,2-TETRACHLOROETHANE	0.26 U	1.0	0.26	0.13	ug/L	11/01/11	11/01/11
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/01/11	11/01/11
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	11/01/11	11/01/11
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	11/01/11	11/01/11
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	11/01/11	11/01/11
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	11/01/11	11/01/11
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	11/01/11	11/01/11
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	11/01/11	11/01/11
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	11/01/11	11/01/11
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	11/01/11	11/01/11
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/01/11	11/01/11
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	11/01/11	11/01/11
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	11/01/11	11/01/11
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	11/01/11	11/01/11
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	11/01/11	11/01/11
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	11/01/11	11/01/11
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	11/01/11	11/01/11
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	11/01/11	11/01/11
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/01/11	11/01/11
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	11/01/11	11/01/11
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	11/01/11	11/01/11
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	11/01/11	11/01/11
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	11/01/11	11/01/11
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	11/01/11	11/01/11
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	11/01/11	11/01/11
EPA 8260B	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	11/01/11	11/01/11
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	11/01/11	11/01/11
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	11/01/11	11/01/11
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	11/01/11	11/01/11
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
EPA 8260B	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	11/01/11	11/01/11
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	11/01/11	11/01/11

Quant Method: CALLW.M
Run #: 1031C11
Instrument: Chico
Sequence: C111030
Dilution Factor: 1
Initials: ARS

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APPL-F1-SC-NoMC-REG MDLs

EPA 8260B VOCs + Gas Water

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

APPL inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacey Fineran
Project: RED HILL/1022-024

ARF: 66116

Sample ID: ES050

APPL ID: AY49481

Sample Collection Date: 10/25/11

QCG: #86RHB-111031AC-161078

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	11/01/11	11/01/11
EPA 8260B	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	11/01/11	11/01/11
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	11/01/11	11/01/11
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	11/01/11	11/01/11
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	11/01/11	11/01/11
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	103	70-120			%	11/01/11	11/01/11
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	101	75-120			%	11/01/11	11/01/11
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	100	85-115			%	11/01/11	11/01/11
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	101	85-120			%	11/01/11	11/01/11

Quant Method: CALLW.M
Run #: 1031C11
Instrument: Chico
Sequence: C111030
Dilution Factor: 1
Initials: ARS

Printed: 12/06/11 6:14:21 PM

APPL-F1-SC-NoMC-REG MDLs

Data File : M:\CHICO\DATA\C111030\1031C11W.D Vial: 1
 Acq On : 1 Nov 11 2:02 Operator: STC
 Sample : AY49481W04 Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 3 12:17 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Wed Nov 02 14:33:25 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	96	586092	25.00000	ppb	0.01
55) Chlorobenzene-D5 (IS)	18.04	117	399616	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.25	152	207936	25.00000	ppb	0.01
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.43	111	392863	25.16311	ppb	0.00
Spiked Amount	25.097			Recovery = 100.262%		
38) 1,2-DCA-D4(S)	12.23	65	346382	24.92318	ppb	0.00
Spiked Amount	24.225			Recovery = 102.880%		
56) Toluene-D8(S)	15.51	98	1460189	25.96915	ppb	0.01
Spiked Amount	25.808			Recovery = 100.623%		
64) 4-Bromofluorobenzene(S)	20.12	95	519588	25.78999	ppb	0.01
Spiked Amount	25.459			Recovery = 101.298%		

Target Compounds Qvalue

Quantitation Report

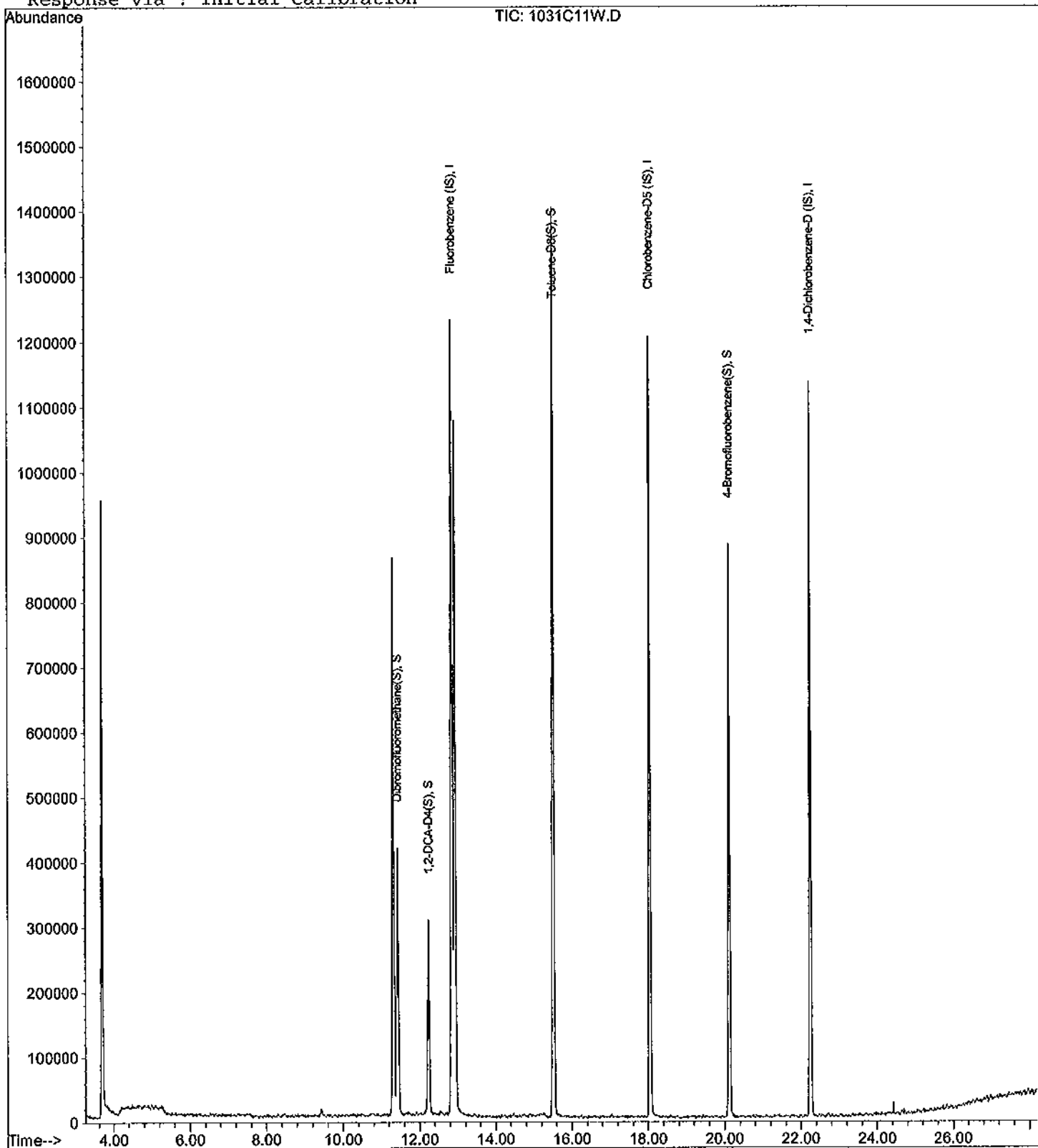
Data File : M:\CHICO\DATA\C111030\1031C11W.D
Acq On : 1 Nov 11 2:02
Sample : AY49481W04
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 12:17 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 03 10:27:07 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1031C11W.D Vial: 1
 Acq On : 1 Nov 11 2:02 Operator: STC
 Sample : AY49481W04 Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 10 10:29 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1221723	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.04	TIC	1202299	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.25	TIC	1131556	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

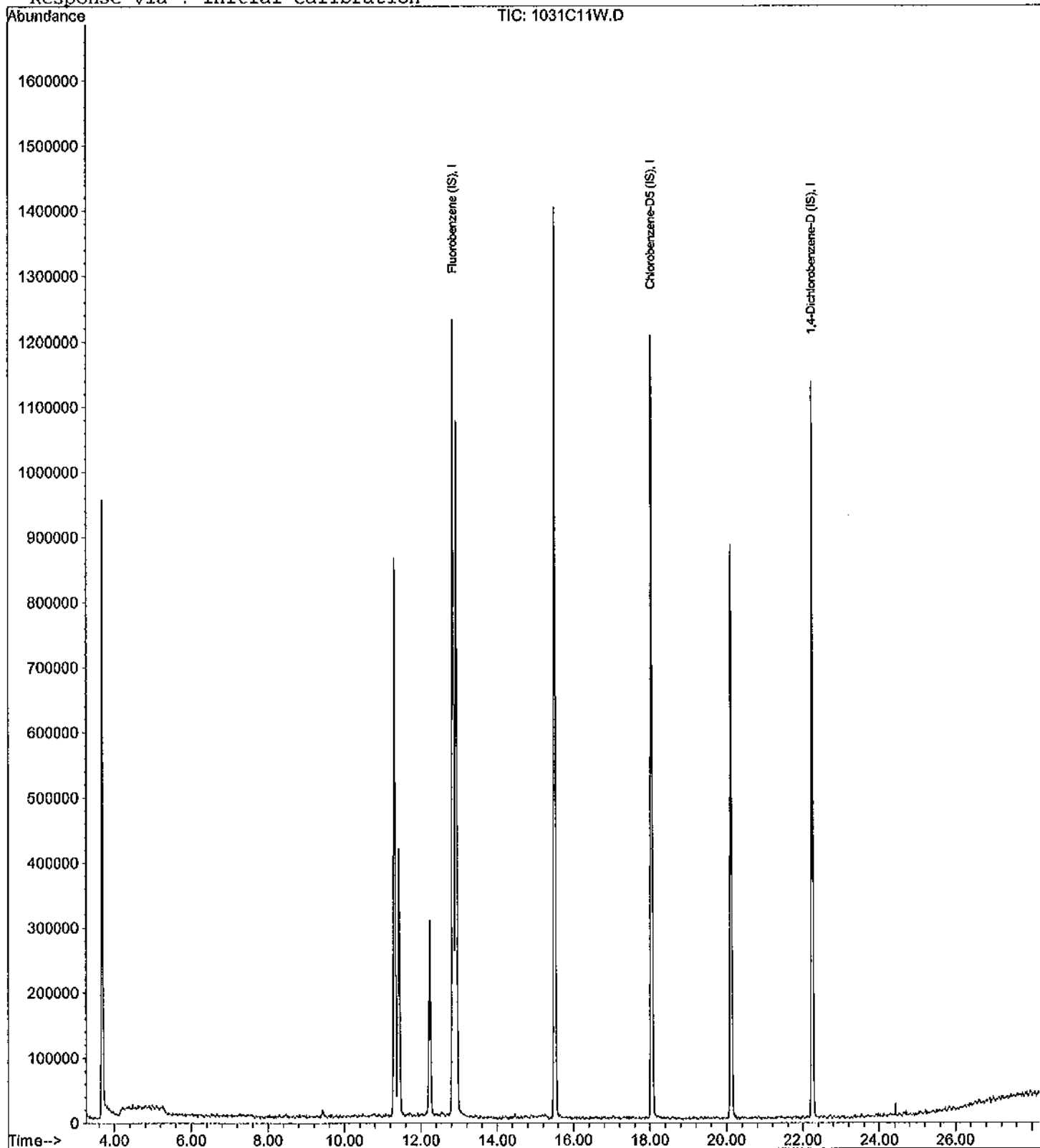
Data File : M:\CHICO\DATA\C111030\1031C11W.D
Acq On : 1 Nov 11 2:02
Sample : AY49481W04
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 10 10:29 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



EPA 8260B VOCs + Gas Water

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacey Fineran

Project: RED HILL/1022-024

Sample ID: ES051

Sample Collection Date: 10/25/11

ARF: 66116

APPL ID: AY49482

QCG: #86RHB-111031AC-161078

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1,2-TETRACHLOROETHANE	0.26 U	1.0	0.26	0.13	ug/L	11/01/11	11/01/11
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/01/11	11/01/11
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	11/01/11	11/01/11
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	11/01/11	11/01/11
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	11/01/11	11/01/11
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	11/01/11	11/01/11
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	11/01/11	11/01/11
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	11/01/11	11/01/11
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	11/01/11	11/01/11
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	11/01/11	11/01/11
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/01/11	11/01/11
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	11/01/11	11/01/11
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	11/01/11	11/01/11
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	11/01/11	11/01/11
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	11/01/11	11/01/11
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	11/01/11	11/01/11
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	11/01/11	11/01/11
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	11/01/11	11/01/11
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/01/11	11/01/11
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	11/01/11	11/01/11
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	11/01/11	11/01/11
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	11/01/11	11/01/11
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	11/01/11	11/01/11
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	11/01/11	11/01/11
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	11/01/11	11/01/11
EPA 8260B	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	11/01/11	11/01/11
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	11/01/11	11/01/11
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	11/01/11	11/01/11
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	11/01/11	11/01/11
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
EPA 8260B	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	11/01/11	11/01/11
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	11/01/11	11/01/11

Quant Method: CALLW.M
Run #: 1031C12
Instrument: Chlco
Sequence: C111030
Dilution Factor: 1
Initials: ARS

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APPL-F1-SC-NoMC-REG MDLs

EPA 8260B VOCs + Gas Water

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacey Fineran

Project: RED HILL/1022-024

Sample ID: ES051

Sample Collection Date: 10/25/11

ARF: 66116

APPL ID: AY49482

QCG: #86RHB-111031AC-161078

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	11/01/11	11/01/11
EPA 8260B	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	11/01/11	11/01/11
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	11/01/11	11/01/11
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	11/01/11	11/01/11
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	11/01/11	11/01/11
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	106	70-120			%	11/01/11	11/01/11
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	110	75-120			%	11/01/11	11/01/11
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	105	85-115			%	11/01/11	11/01/11
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	110	85-120			%	11/01/11	11/01/11

Quant Method: CALLW.M
Run #: 1031C12
Instrument: Chico
Sequence: C111030
Dilution Factor: 1
Initials: ARS

Printed: 12/06/11 6:14:21 PM

APPL-F1-SC-NoMC-REG MDLs

Data File : M:\CHICO\DATA\C111030\1031C12W.D Vial: 1
 Acq On : 1 Nov 11 2:39 Operator: STC
 Sample : AY49482W04 Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 3 12:19 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Wed Nov 02 14:33:25 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	96	561792	25.00000	ppb	0.01
55) Chlorobenzene-D5 (IS)	18.04	117	373504	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.25	152	182464	25.00000	ppb	0.01
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.43	111	396140	26.47050	ppb	0.00
Spiked Amount	25.097				Recovery = 105.470%	
38) 1,2-DCA-D4(S)	12.23	65	343006	25.74780	ppb	0.00
Spiked Amount	24.225				Recovery = 106.286%	
56) Toluene-D8(S)	15.51	98	1485378	28.26398	ppb	0.01
Spiked Amount	25.808				Recovery = 109.515%	
64) 4-Bromofluorobenzene(S)	20.12	95	525703	27.91773	ppb	0.01
Spiked Amount	25.459				Recovery = 109.657%	

Target Compounds Qvalue

Quantitation Report

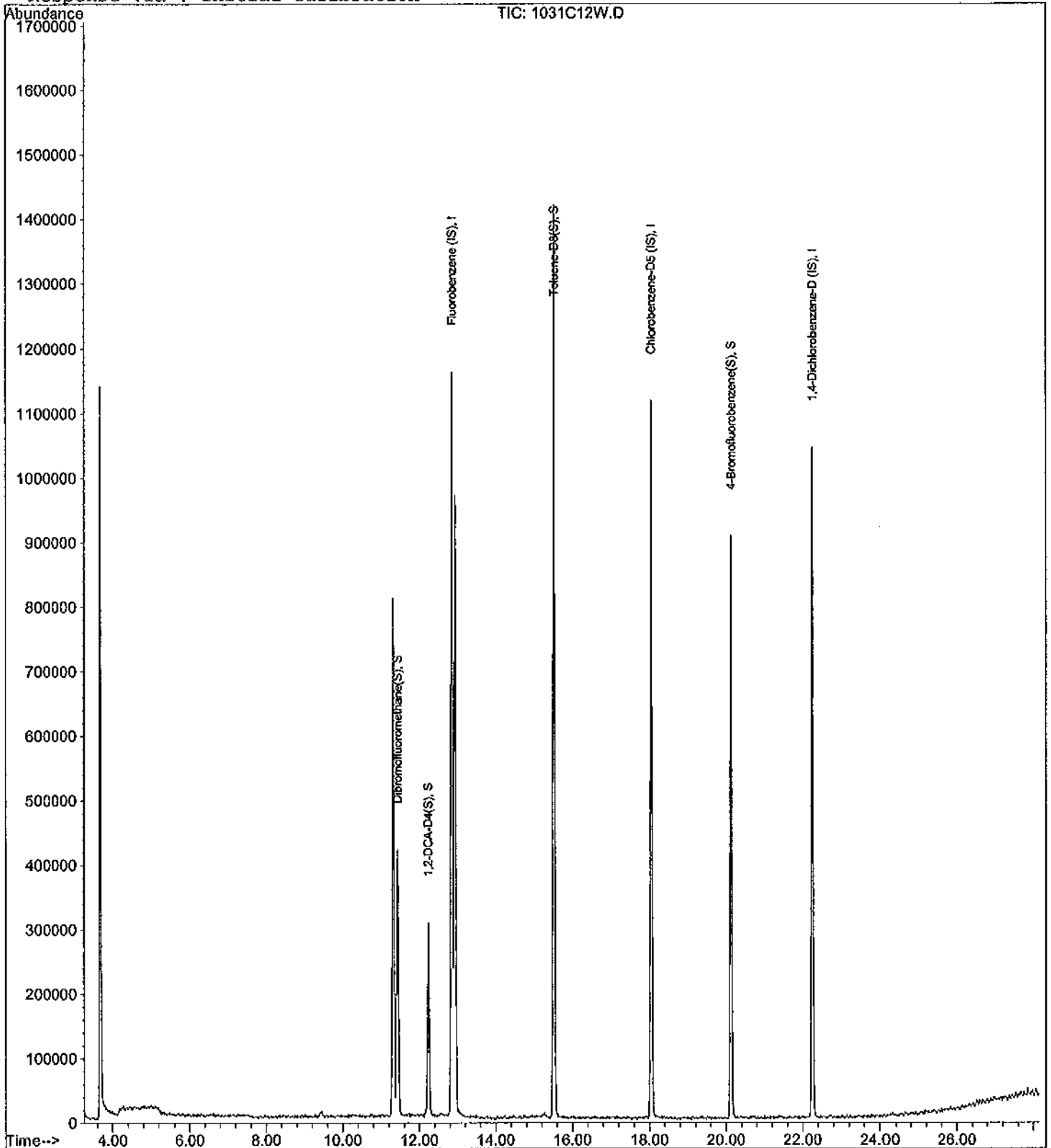
Data File : M:\CHICO\DATA\C111030\1031C12W.D
Acq On : 1 Nov 11 2:39
Sample : AY49482W04
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 12:19 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 03 10:27:07 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1031C12W.D Vial: 1
 Acq On : 1 Nov 11 2:39 Operator: STC
 Sample : AY49482W04 Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 10 10:29 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1152747	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.04	TIC	1113077	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.25	TIC	1039775	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

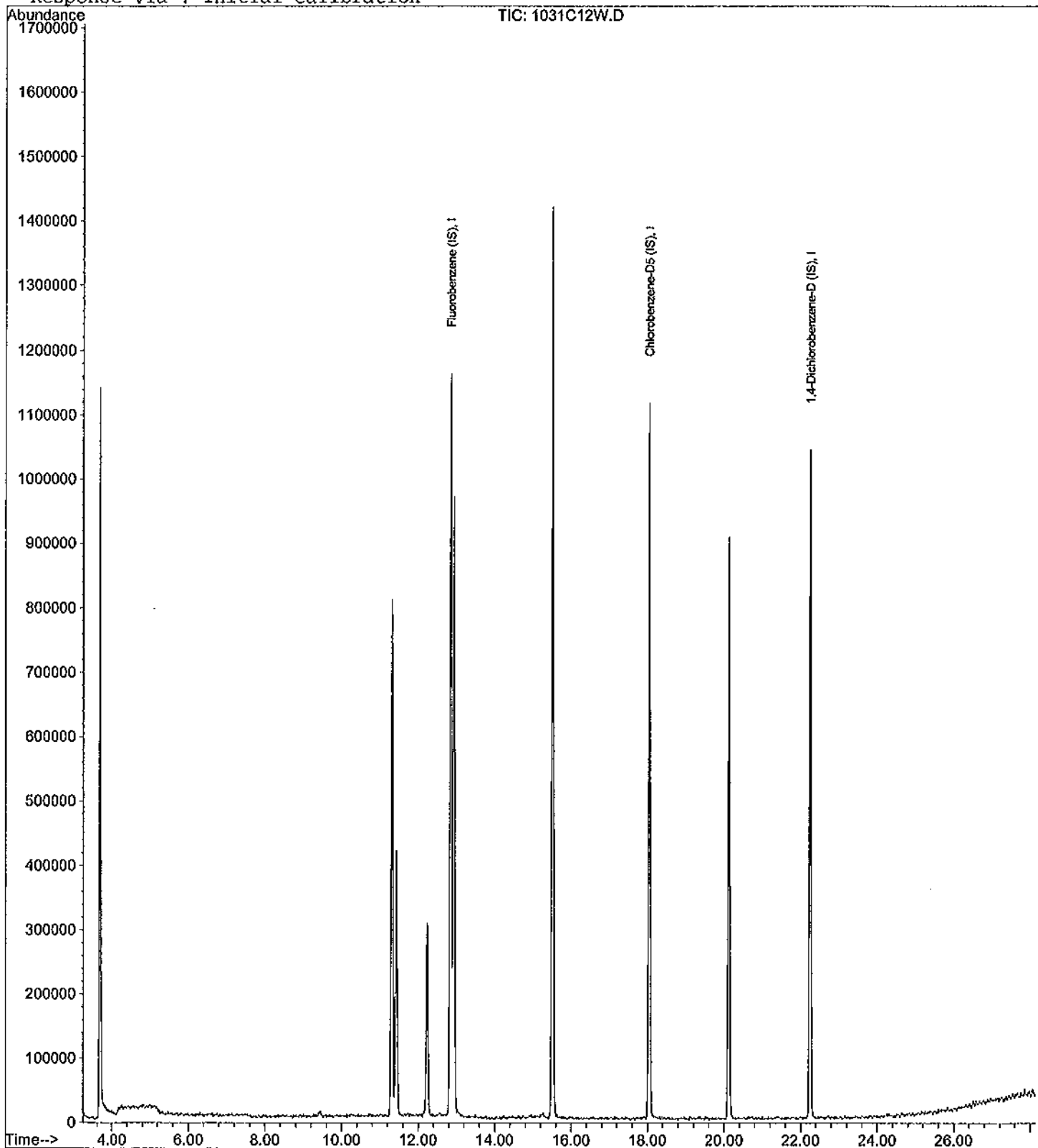
Data File : M:\CHICO\DATA\C111030\1031C12W.D
Acq On : 1 Nov 11 2:39
Sample : AY49482W04
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 10 10:29 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



EPA 8260B VOCs + Gas Water

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacey Fineran

Project: RED HILL/1022-024

Sample ID: ES052

Sample Collection Date: 10/25/11

ARF: 66116

APPL ID: AY49483

QCG: #86RHB-111031AC-161078

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1,2-TETRACHLOROETHANE	0.26 U	1.0	0.26	0.13	ug/L	11/01/11	11/01/11
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/01/11	11/01/11
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	11/01/11	11/01/11
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	11/01/11	11/01/11
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	11/01/11	11/01/11
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	11/01/11	11/01/11
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	11/01/11	11/01/11
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	11/01/11	11/01/11
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	11/01/11	11/01/11
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	11/01/11	11/01/11
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/01/11	11/01/11
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	11/01/11	11/01/11
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	11/01/11	11/01/11
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	11/01/11	11/01/11
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	11/01/11	11/01/11
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	11/01/11	11/01/11
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	11/01/11	11/01/11
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	11/01/11	11/01/11
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/01/11	11/01/11
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	11/01/11	11/01/11
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	11/01/11	11/01/11
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	11/01/11	11/01/11
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	11/01/11	11/01/11
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	11/01/11	11/01/11
EPA 8260B	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	11/01/11	11/01/11
EPA 8260B	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	11/01/11	11/01/11
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	11/01/11	11/01/11
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	11/01/11	11/01/11
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	11/01/11	11/01/11
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
EPA 8260B	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	11/01/11	11/01/11
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	11/01/11	11/01/11

Quant Method: CALLW.M
Run #: 1031C10
Instrument: Chico
Sequence: C111030
Dilution Factor: 1
Initials: ARS

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APPL-F1-SC-NoMC-REG MDLs

EPA 8260B VOCs + Gas Water

EnviroNet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacey Fineran

Project: RED HILL/1022-024

Sample ID: ES052

Sample Collection Date: 10/25/11

ARF: 66116

APPL ID: AY49483

QCG: #86RHB-111031AC-161078

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	11/01/11	11/01/11
EPA 8260B	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	11/01/11	11/01/11
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	11/01/11	11/01/11
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	11/01/11	11/01/11
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	11/01/11	11/01/11
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE-	99.0	70-120			%	11/01/11	11/01/11
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	99.9	75-120			%	11/01/11	11/01/11
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	100	85-115			%	11/01/11	11/01/11
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	99.9	85-120			%	11/01/11	11/01/11

Quant Method: CALLW.M
Run #: 1031C10
Instrument: Chico
Sequence: C111030
Dilution Factor: 1
Initials: ARS

Printed: 12/06/11 6:14:21 PM

APPL-F1-SC-NoMC-REG MDLs

Data File : M:\CHICO\DATA\C111030\1031C10W.D Vial: 1
 Acq On : 1 Nov 11 1:25 Operator: STC
 Sample : AY49483W01 Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 3 12:13 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Wed Nov 02 14:33:25 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	96	601728	25.00000	ppb	0.01
55) Chlorobenzene-D5 (IS)	18.04	117	413312	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.25	152	215360	25.00000	ppb	0.01
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.43	111	403682	25.18420	ppb	0.00
Spiked Amount	25.097		Recovery	=	100.346%	
38) 1,2-DCA-D4(S)	12.23	65	342314	23.99045	ppb	0.00
Spiked Amount	24.225		Recovery	=	99.029%	
56) Toluene-D8(S)	15.51	98	1499441	25.78356	ppb	0.01
Spiked Amount	25.808		Recovery	=	99.906%	
64) 4-Bromofluorobenzene(S)	20.12	95	529976	25.43391	ppb	0.01
Spiked Amount	25.459		Recovery	=	99.900%	

Target Compounds Qvalue

Quantitation Report

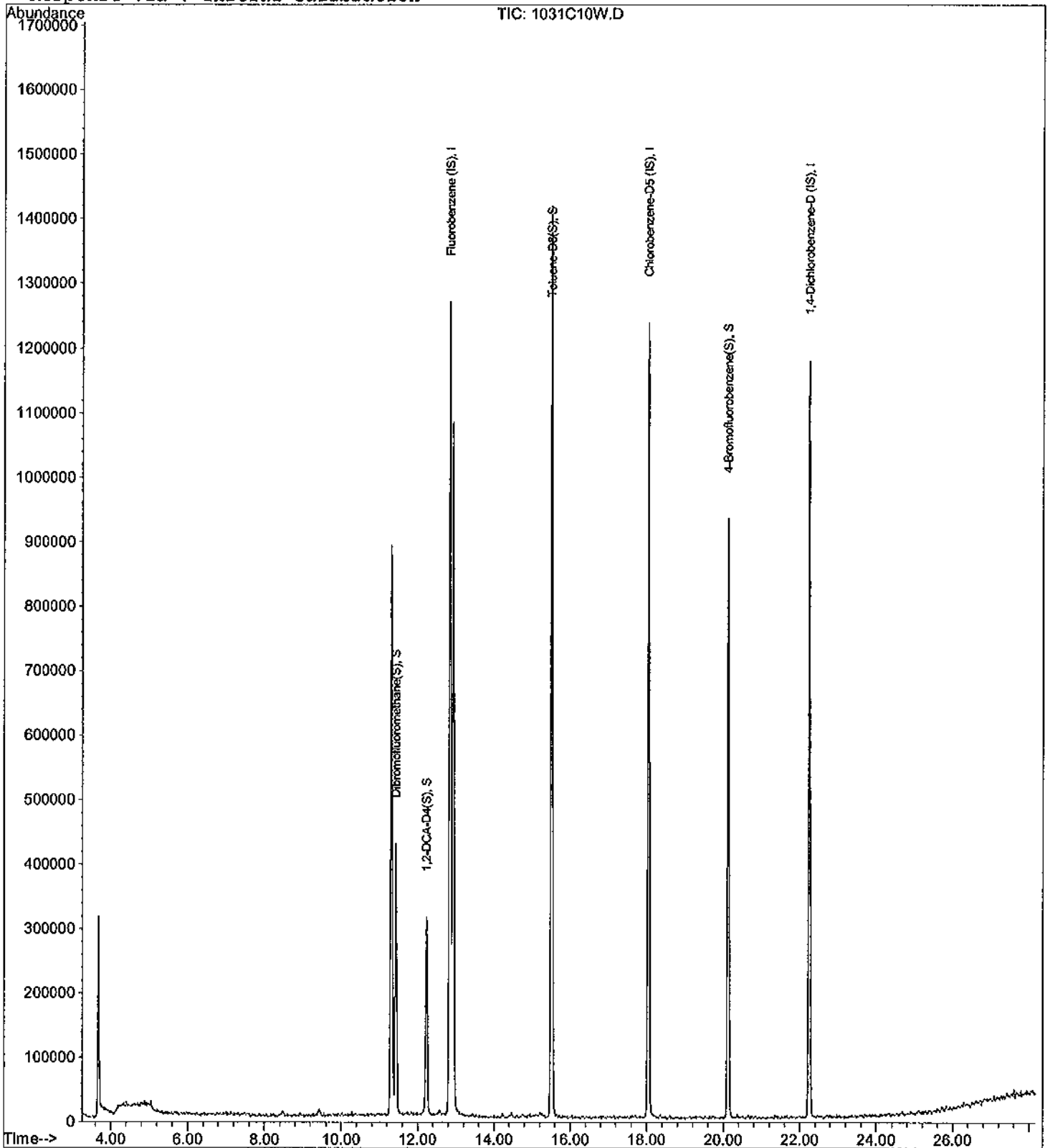
Data File : M:\CHICO\DATA\C111030\1031C10W.D
Acq On : 1 Nov 11 1:25
Sample : AY49483W01
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 12:13 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 03 10:27:07 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1031C10W.D Vial: 1
 Acq On : 1 Nov 11 1:25 Operator: STC
 Sample : AY49483W01 Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 10 10:29 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1259858	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.04	TIC	1232700	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.25	TIC	1173758	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

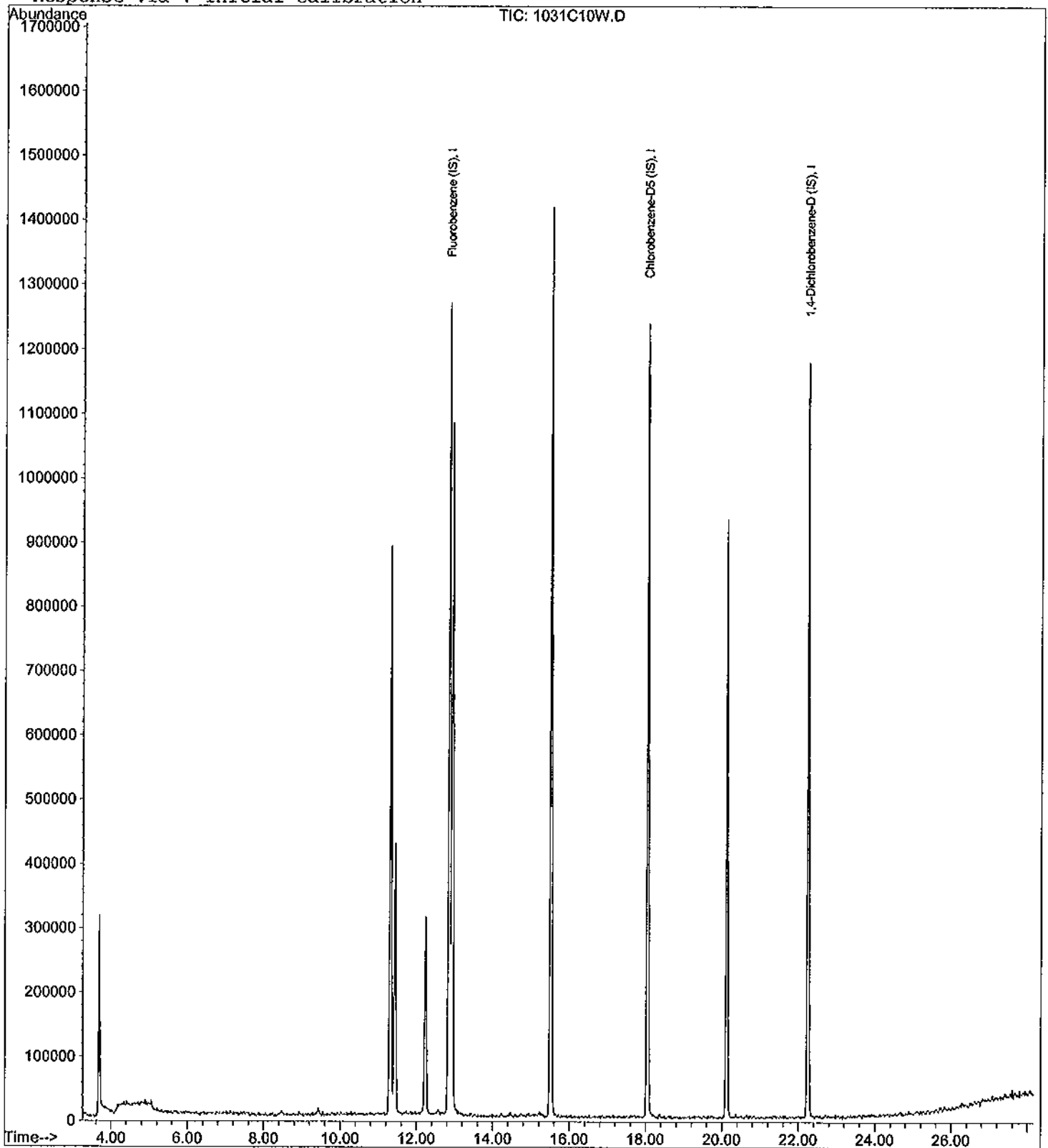
Data File : M:\CHICO\DATA\C111030\1031C10W.D
Acq On : 1 Nov 11 1:25
Sample : AY49483W01
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 10 10:29 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



**EPA METHOD 8260B
Volatile Organic Compounds
Calibration Data**

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Initial Cal. Date: 10/30/11

Matrix: _____

Instrument: Chico

Initials: _____

1030C15W.D 1030C16W.D 1030C17W.D 1030C18W.D 1030C19W.D 1030C20W.D 1030C21W.D 1030C22W.D 1030C23W.D

Compound	0.3	0.5	1	2	5	10	20	40	100		Avg	%RSD		r	
1 I Fluorobenzene (IS)	ISTD														
2 TM Dichlorodifluoromethane	0.9991	0.9593	0.9680	0.8471	0.8830	0.9152	0.9504	0.9592	0.8084		0.92	6.8	TM		
3 TM Freon 114	0.5029	0.5470	0.6167	0.5799	0.5567	0.6260	0.6223	0.6040	0.5364		0.58	7.6	TM		
4 TM** Chloromethane	1.389	1.171	1.239	1.184	1.061	1.077	1.079	1.076	0.9963		1.1	10	TM**		
5 TM* Vinyl chloride		0.8227	0.9389	0.7274	0.8810	0.7956	0.7782	0.6322	0.5319		0.76	17	TM*		
6 TML 1,3-Butadiene													TML		
7 TM Bromomethane	0.5647	0.5370	0.4933	0.6483	0.5131	0.5331	0.5691	0.5732	0.5561		0.55	8.0	TM		
8 TM Chloroethane		0.7481	0.7782	0.6360	0.6082	0.5955	0.5730	0.5758	0.5302		0.63	14	TM		
9 TM Dichlorofluoromethane	1.806	1.879	1.897	1.843	1.787	1.725	1.664	1.599	1.493		1.7	7.8	TM		
10 TM Trichlorofluoromethane	1.219	0.9410	1.059	1.063	1.038	1.037	1.027	1.027	0.9025		1.0	8.5	TM		
11 Acetonitrile	0.0248	0.0305	0.0278	0.0270	0.0288	0.0267	0.0258	0.0269	0.0283		0.03	6.1			
12 TM Acrolein	0.0160	0.0133	0.0127	0.0117	0.0124	0.0118	0.0112	0.0121	0.0115		0.01	12	TM		
13 TML Acetone	0.2927	0.4962	0.2742	0.1724	0.1160	0.0970	0.0807	0.0738	0.0705		0.19	77	TML	1.000	
14 TML Freon-113		0.2687	0.6640	0.6219	0.6334	0.6298	0.6085	0.6058	0.5403		0.57	22	TML	0.999	
15 TM* 1,1-DCE	0.8684	0.8302	0.7551	0.7075	0.7021	0.6844	0.6445	0.6344	0.5970		0.71	13	TM*		
16 TM t-Butanol	0.0032	0.0028	0.0031	0.0037	0.0033	0.0035	0.0031	0.0036	0.0043		0.00	13	TM		
17 TML Methyl Acetate		0.5858	0.4123	0.3223	0.1877	0.2224	0.2002	0.2076	0.2032		0.29	48	TML	1.000	
18 TML Iodomethane			0.1817	0.2265	0.2408	0.2984	0.3981	0.4959	0.6090		0.35	45	TML	0.997	
19 TML Acrylonitrile		0.0466	0.0701	0.0979	0.0824	0.0851	0.0770	0.0761	0.0758		0.08	19	TML	1.000	
20 S TM Methylene chloride		0.8304	0.7142	0.7211	0.6635	0.6652	0.6531	0.6094	0.5892		0.68	11	TM		
21 S TM Carbon disulfide	0.8377	0.7169	0.7402	0.7186	0.6675	0.6811	0.6507	0.6311	0.5977		0.69	10	TM		
22 TM Methyl t-butyl ether (MtBE)	1.160	1.072	1.146	1.130	1.059	1.101	1.037	1.041	0.9630		1.1	5.8	TM		
23 TM Trans-1,2-DCE	0.9275	0.9146	0.8717	0.8807	0.8240	0.8200	0.7565	0.7483	0.7085		0.83	9.3	TM		
24 TM Diisopropyl Ether	2.775	2.360	2.465	2.461	2.400	2.425	2.261	2.245	2.073		2.4	8.1	TM		
25 TM** 1,1-DCA	1.448	1.345	1.449	1.466	1.510	1.465	1.402	1.378	1.267		1.4	5.3	TM**		
26 TML Vinyl Acetate		1.048	0.7027	0.5800	0.5004	0.4421	0.4155	0.4257	0.3841		0.56	40	TML	0.999	
27 TM Ethyl tert Butyl Ether	1.698	1.549	1.596	1.761	1.670	1.751	1.601	1.569	1.460		1.6	6.1	TM		
28 TML MEK (2-Butanone)		0.5665	0.4588	0.3602	0.2874	0.2964	0.2742	0.2705			0.36	32	TML	1.000	
29 TM Cis-1,2-DCE	1.025	0.9874	0.8510	0.8618	0.8314	0.8432	0.7892	0.7602	0.7089		0.85	12	TM		
30 TM 2,2-Dichloropropane	1.246	1.113	0.9950	1.048	1.020	0.9872	0.9664	0.9254	0.8189		1.0	12	TM		
31 TM* Chloroform	1.473	1.359	1.352	1.398	1.420	1.399	1.327	1.309	1.208		1.4	5.6	TM*		
32 TM Bromochloromethane	0.2100	0.2283	0.2743	0.2327	0.2615	0.2451	0.2386	0.2267	0.2148		0.24	8.8	TM		
33 S Dibromofluoromethane(S)	0.6664	0.6677	0.6754	0.6906	0.6830	0.6822	0.6563	0.6514	0.6207		0.67	3.2	S		
34 TM 1,1,1-TCA	1.307	1.226	1.269	1.241	1.235	1.281	1.263	1.210	1.104		1.2	4.7	TM		
35 TM Cyclohexane	1.116	1.365	1.215	1.216	1.106	1.144	1.092	1.114	1.000		1.2	8.9	TM		

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc. _____
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 10/30/11 _____
Instrument: Chico _____

Initials: _____

		Compound	0.3	0.5	1	2	5	10	20	40	100		Avg	%RSD		r
36	TM	1,1-Dichloropropene	1.089	1.043	1.238	1.061	1.080	1.064	1.039	0.9929	0.9342		1.1	7.8	TM	
37	TML	2,2,4-Trimethylpentane		4.510	2.958	2.198	1.929	1.816	1.761	1.722	1.632		2.3	42	TML	1.000
38	S	1,2-DCA-D4(S)	0.5562	0.6935	0.6364	0.6275	0.6073	0.5850	0.5554	0.5514	0.5227		0.59	9.0	S	
39	TM	Carbon Tetrachloride	0.7745	0.7961	0.7551	0.8397	0.8717	0.9031	0.9401	0.9166	0.8718		0.85	7.6	TM	
40	TM	Tert Amyl Methyl Ether	1.206	1.355	1.238	1.270	1.190	1.245	1.179	1.154	1.119		1.2	5.7	TM	
41	TM	1,2-DCA	0.8312	0.6440	0.6792	0.7198	0.7101	0.7316	0.6883	0.6614	0.6203		0.70	8.8	TM	
42	TM	Benzene	3.278	3.031	3.234	3.139	3.058	3.078	2.926	2.893	2.778		3.0	5.3	TM	
43	TM	TCE	0.7582	0.8575	0.9261	0.9155	0.8745	0.8692	0.8308	0.8139	0.7474		0.84	7.4	TM	
44	TM	2-Pentanone	0.1621	0.1829	0.1696	0.1839	0.1797	0.1849	0.1709	0.1792	0.1751		0.18	4.4	TM	
45	TM*	1,2-Dichloropropane	0.6688	0.7192	0.7502	0.6580	0.7308	0.7195	0.6791	0.6772	0.6288		0.69	5.7	TM*	
46	TM	Bromodichloromethane	0.7189	0.7057	0.8148	0.7719	0.8069	0.8660	0.8196	0.8390	0.7766		0.79	6.7	TM	
47	TM	Methyl Cyclohexane	1.113	1.125	0.9652	0.9330	0.9573	1.003	0.9550	0.9420	0.8802		0.99	8.3	TM	
48	TM	Dibromomethane	0.2413	0.2669	0.2816	0.2846	0.2915	0.3053	0.2877	0.2711	0.2623		0.28	6.8	TM	
49	TM	2-Chloroethyl vinyl ether	0.1532	0.1448	0.1599	0.1939	0.1910	0.1855	0.1751	0.1885	0.1924		0.18	11	TM	
50	TM	1-Bromo-2-chloroethane	0.6355	0.5704	0.5860	0.6008	0.6129	0.6029	0.5729	0.5868	0.5488		0.59	4.3	TM	
51	TM	Cis-1,3-Dichloropropene	0.7822	0.6621	0.7733	0.7420	0.7627	0.7998	0.7723	0.7726	0.7216		0.75	5.5	TM	
52	TM*	Toluene	3.411	3.085	2.935	3.035	3.024	3.066	2.913	2.874	2.698		3.0	6.5	TM*	
53	TM	Trans-1,3-Dichloropropene	0.5191	0.5428	0.4995	0.5430	0.5365	0.5848	0.5511	0.5622	0.5483		0.54	4.5	TM	
54	TM	1,1,2-TCA	0.3181	0.2834	0.2608	0.3010	0.2945	0.3288	0.2891	0.2919	0.2665		0.29	7.5	TM	
55	i	Chlorobenzene-D5 (IS)	ISTD													
56	S	Toluene-D8(S)	3.825	3.742	3.592	3.490	3.642	3.496	3.501	3.233	3.138		3.5	6.3	S	
57	TM	1,2-EDB	0.5186	0.3944	0.4412	0.4259	0.5017	0.5094	0.5156	0.5003	0.4752		0.48	9.4	TM	
58	TM	Tetrachloroethene	1.569	1.513	1.319	1.276	1.308	1.257	1.237	1.102	0.9877		1.3	14	TM	
59	TM	1-Chlorohexane	1.590	1.521	1.436	1.470	1.527	1.492	1.526	1.416	1.343		1.5	5.0	TM	
60	TM	1,1,1,2-Tetrachloroethane	0.6133	0.6996	0.7082	0.7484	0.8608	0.9066	0.9437	0.9002	0.8611		0.80	14	TM	
61	TM	m&p-Xylene	2.262	1.857	1.843	1.755	1.899	1.909	1.977	1.824	1.763		1.9	8.1	TM	
62	TM	o-Xylene	1.911	1.844	1.639	1.684	1.946	1.920	1.973	1.805	1.714		1.8	6.7	TM	
63	TM	Styrene	2.668	2.626	2.667	2.614	2.923	2.903	3.005	2.787	2.612		2.8	5.5	TM	
64	S	4-Bromofluorobenzene(S)	1.386	1.298	1.312	1.224	1.272	1.281	1.253	1.176	1.141		1.3	5.8	S	
65	TM	2-Hexanone		0.2681	0.1979	0.2383	0.2161	0.2363	0.2325	0.2267	0.2142		0.23	9.1	TM	
66	TM	1,3-Dichloropropane	0.9515	0.9439	0.8870	0.9272	0.9571	1.037	0.9690	0.9322	0.8392		0.94	5.8	TM	
67	TM	Dibromochloromethane		0.4957	0.5504	0.5206	0.6049	0.6702	0.6987	0.6794	0.6801		0.61	13	TM	
68	TM**	Chlorobenzene	3.339	2.652	2.608	2.538	2.763	2.780	2.740	2.590	2.437		2.7	9.5	TM**	
69	TM*	Ethylbenzene	5.842	4.934	5.056	4.770	5.229	5.219	5.128	4.773	4.573		5.1	7.3	TM*	
70	TM**L	Bromoform		0.1505	0.1690	0.2072	0.2509	0.2961	0.3266	0.3337	0.3518		0.26	30	TM**L	1.000

Data File : M:\CHICO\DATA\C111030\1030C15W.D Vial: 1
 Acq On : 30 Oct 11 23:28 Operator: STC
 Sample : Voc Std 10-30-11@0.3ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.83	96	559104	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.03	117	374592	25.00000	ppb	-0.01
71) 1,4-Dichlorobenzene-D (IS)	22.24	152	198336	25.00000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) Dibromofluoromethane(S)	11.41	111	8942	0.60039	ppb	-0.01
Spiked Amount	25.097		Recovery	=	2.391%	
38) 1,2-DCA-D4(S)	12.23	65	7464	0.56298	ppb	0.00
Spiked Amount	24.225		Recovery	=	2.324%	
56) Toluene-D8(S)	15.50	98	34391	0.65250	ppb	0.00
Spiked Amount	25.808		Recovery	=	2.526%	
64) 4-Bromofluorobenzene(S)	20.11	95	12464	0.65998	ppb	0.00
Spiked Amount	25.459		Recovery	=	2.592%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	4.07	85	6703	0.32540	ppb	# 80
3) Freon 114	4.33	85	3374	0.26153	ppb	# 70
4) Chloromethane	4.55	50	9320	0.36511	ppb	# 94
5) Vinyl chloride	4.83	62	6233	0.36505	ppb	# 76
6) 1,3-Butadiene	4.86	54	426	8.92736	ppb	# 41
7) Bromomethane	5.72	94	3789	0.30570	ppb	# 70
8) Chloroethane	5.92	64	6243	0.44265	ppb	# 55
9) Dichlorofluoromethane	6.01	67	12120	0.31081	ppb	# 86
10) Trichlorofluoromethane	6.51	101	8177	0.35336	ppb	# 78
11) Acetonitrile	7.67	41	8307	13.56274	ug/l	# 100
12) Acrolein	7.18	56	5382	19.20236	ppb	# 71
13) Acetone	7.26	43	1964	1.22606	ppb	# 75
14) Freon-113	7.48	101	3974	-0.83183	ppb	# 68
15) 1,1-DCE	7.68	96	5826	0.36499	ppb	# 38
16) t-Butanol	7.78	59	1058	13.95861	ppb	# 96
17) Methyl Acetate	8.17	43	2286	-0.18237	ppb	# 87
18) Iodomethane	8.17	142	479	3.85678	ppb	# 37
19) Acrylonitrile	8.56	53	560	-0.04894	ppb	# 5
20) Methylene chloride	8.46	84	7036	0.46214	ppb	# 60
21) Carbon disulfide	8.57	76	5620	0.36236	ppb	# 97
22) Methyl t-butyl ether (MtBE)	8.91	73	7781	0.32251	ppb	# 64
23) Trans-1,2-DCE	9.09	96	6223	0.38166	ppb	# 92
24) Diisopropyl Ether	9.75	45	18616	0.34902	ppb	# 73
25) 1,1-DCA	9.78	63	9717	0.30719	ppb	# 95
26) Vinyl Acetate	9.43	43	9166	-0.47709	ppb	# 81
27) Ethyl tert Butyl Ether	10.45	59	11390	0.31279	ppb	# 93
28) MEK (2-Butanone)	10.45	43	4667	0.10206	ppb	# 76
29) Cis-1,2-DCE	10.80	96	6876	0.36134	ppb	# 67
30) 2,2-Dichloropropane	10.79	77	8357	0.36882	ppb	# 95
31) Chloroform	11.08	83	9885	0.32484	ppb	# 86
32) Bromochloromethane	11.31	128	1409	0.26596	ppb	# 1
34) 1,1,1-TCA	11.83	97	8769	0.31687	ppb	# 72
35) Cyclohexane	11.98	56	7488	0.29062	ppb	# 74
36) 1,1-Dichloropropene	12.10	75	7308	0.30819	ppb	# 86
37) 2,2,4-Trimethylpentane	12.17	57	48085	0.17131	ppb	# 87
39) Carbon Tetrachloride	12.31	117	5196	0.27267	ppb	# 87

(#) = qualifier out of range (m) = manual integration
 1030C15W.D CALLW.M Fri Dec 02 11:20:38 2011

Data File : M:\CHICO\DATA\C111030\1030C15W.D
 Acq On : 30 Oct 11 23:28
 Sample : Voc Std 10-30-11@0.3ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue	
40) Tert Amyl Methyl Ether	12.35	73	8093	0.29724	ppb	#	82
41) 1,2-DCA	12.36	62	5577	0.35705	ppb	#	79
42) Benzene	12.50	78	21995	0.32285	ppb		99
43) TCE	13.53	95	5087	0.26961	ppb		88
44) 2-Pentanone	13.19	43	54377	13.77755	ppb		91
45) 1,2-Dichloropropane	13.76	63	4487	0.28977	ppb	#	81
46) Bromodichloromethane	14.11	83	4823	0.27263	ppb	#	84
47) Methyl Cyclohexane	13.81	83	7465	0.33857	ppb		81
48) Dibromomethane	14.15	93	1619	0.26143	ppb	#	56
49) 2-Chloroethyl vinyl ether	14.57	63	1028	0.26114	ppb	#	71
50) 1-Bromo-2-chloroethane	14.89	63	4264	0.32272	ppb	#	76
51) Cis-1,3-Dichloropropene	15.00	75	5248	0.31110	ppb		96
52) Toluene	15.64	91	22887	0.34061	ppb		88
53) Trans-1,3-Dichloropropene	15.80	75	3483	0.28679	ppb	#	72
54) 1,1,2-TCA	16.08	83	2134	0.32602	ppb		86
57) 1,2-EDB	17.33	107	2331	0.32696	ppb	#	72
58) Tetrachloroethene	16.79	164	7051	0.36612	ppb	#	74
59) 1-Chlorohexane	17.71	91	7147	0.32226	ppb	#	70
60) 1,1,1,2-Tetrachloroethane	18.16	131	2757	0.22867	ppb		83
61) m&p-Xylene	18.35	106	20335	0.71474	ppb		85
62) o-Xylene	19.11	106	8588	0.31386	ppb		68
63) Styrene	19.12	104	11993	0.29039	ppb		98
65) 2-Hexanone	16.12	43	2535	0.73958	ppb	#	73
66) 1,3-Dichloropropane	16.49	76	4277	0.30423	ppb		96
67) Dibromochloromethane	16.98	129	1907	0.20779	ppb	#	39
68) Chlorobenzene	18.10	112	15008	0.36875	ppb	#	68
69) Ethylbenzene	18.21	91	26259	0.34648	ppb		89
70) Bromoform	19.63	173	532	1.23415	ppb	#	37
72) MIBK (methyl isobutyl keto	14.68	43	7070	1.25392	ppb		81
73) Isopropylbenzene	19.72	105	23083	0.32111	ppb	#	81
74) 1,1,2,2-Tetrachloroethane	19.88	83	1704	0.28318	ppb	#	79
75) 1,2,3-Trichloropropane	20.14	110	346	0.59881	ppb	#	25
76) t-1,4-Dichloro-2-Butene	20.24	53	170	0.12459	ppb	#	62
77) Bromobenzene	20.49	156	5215	0.31451	ppb	#	54
78) n-Propylbenzene	20.44	91	25363	0.29576	ppb		97
79) 4-Ethyltoluene	20.63	105	21128	0.35603	ppb		93
80) 2-Chlorotoluene	20.74	91	16704	0.29411	ppb		87
81) 1,3,5-Trimethylbenzene	20.72	105	18391	0.31501	ppb		98
82) 4-Chlorotoluene	20.81	91	16002	0.32720	ppb	#	74
83) Tert-Butylbenzene	21.36	119	18557	0.29358	ppb		92
84) 1,2,4-Trimethylbenzene	21.41	105	21930	0.35965	ppb		91
85) Sec-Butylbenzene	21.75	105	22099	0.29154	ppb		86
86) p-Isopropyltoluene	21.99	119	19428	0.29923	ppb		97
87) Benzyl Chloride	22.41	91	3043	0.35307	ppb	#	69
88) 1,3-DCB	22.12	146	11266	0.33224	ppb		92
89) 1,4-DCB	22.29	146	10573	0.33594	ppb		95
90) Hexachloroethane	23.59	117	857	2.03197	ppb	#	50
91) n-Butylbenzene	22.70	91	19217	0.33934	ppb		91
92) 1,2-DCB	22.92	146	8586	0.31833	ppb	#	78
93) 1,2-Dibromo-3-chloropropan	24.14	155	141	1.41683	ppb	#	27
94) 1,2,4-Trichlorobenzene	25.58	180	5945	0.30417	ppb	#	86

(#) = qualifier out of range (m) = manual integration
 1030C15W.D CALLW.M Fri Dec 02 11:20:39 2011

Data File : M:\CHICO\DATA\C111030\1030C15W.D Vial: 1
Acq On : 30 Oct 11 23:28 Operator: STC
Sample : Voc Std 10-30-11@0.3ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Dec 02 11:18:49 2011
Response via : Initial Calibration
DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) Hexachlorobutadiene	25.83	223	1530	0.43087	ppb #	68
96) Naphthalene	25.92	128	7576	0.31416	ppb #	79
97) 1,2,3-Trichlorobenzene	26.29	180	4008	0.27110	ppb	85

Quantitation Report

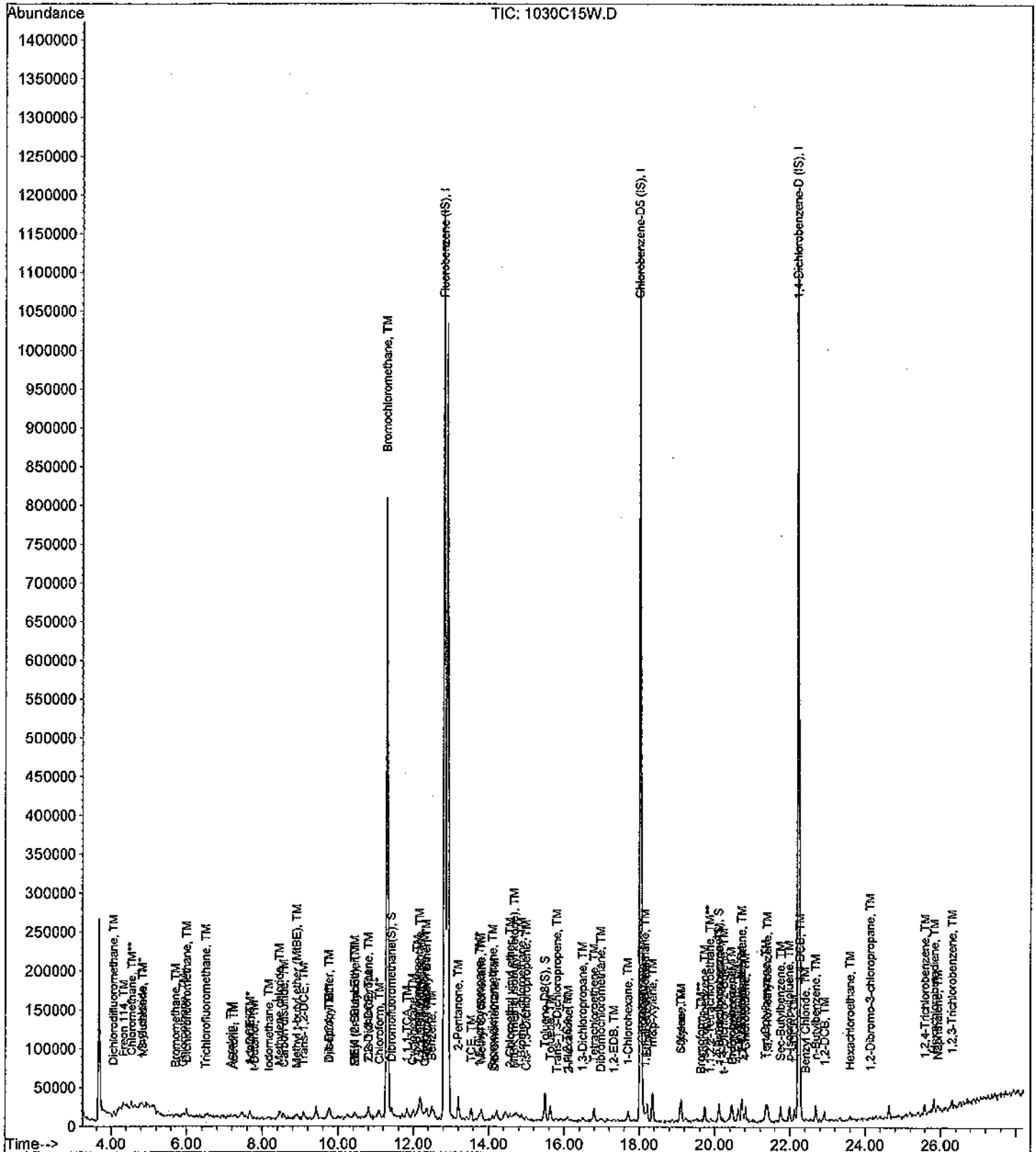
Data File : M:\CHICO\DATA\C111030\1030C15W.D
 Acq On : 30 Oct 11 23:28
 Sample : Voc Std 10-30-11@0.3ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C16W.D Vial: 1
 Acq On : 31 Oct 11 00:11 Operator: STC
 Sample : Voc Std 10-30-11@0.5ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)

Title : METHOD 8260

Last Update : Fri Dec 02 11:18:49 2011

Response via : Initial Calibration

DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	96	564160	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.03	117	384000	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.24	152	199104	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.43	111	15067	1.00257	ppb	0.00
Spiked Amount	25.097		Recovery	=	3.996%	
38) 1,2-DCA-D4(S)	12.23	65	15649	1.16976	ppb	0.00
Spiked Amount	24.225		Recovery	=	4.830%	
56) Toluene-D8(S)	15.51	98	57480	1.06384	ppb	0.01
Spiked Amount	25.808		Recovery	=	4.123%	
64) 4-Bromofluorobenzene(S)	20.10	95	19938	1.02988	ppb	0.00
Spiked Amount	25.459		Recovery	=	4.046%	
Target Compounds						
2) Dichlorodifluoromethane	4.07	85	10824	0.52075	ppb	Qvalue 95
3) Freon 114	4.33	85	6172	0.47412	ppb	98
4) Chloromethane	4.55	50	13218	0.51317	ppb	# 72
5) Vinyl chloride	4.81	62	9283	0.53880	ppb	# 69
6) 1,3-Butadiene	4.79	54	547	11.36033	ppb	97
7) Bromomethane	5.73	94	6059	0.48447	ppb	87
8) Chloroethane	5.91	64	8441	0.59313	ppb	# 74
9) Dichlorofluoromethane	6.02	67	21197	0.53871	ppb	# 80
10) Trichlorofluoromethane	6.51	101	10617	0.45468	ppb	86
11) Acetonitrile	7.65	41	17187	27.80953	ug/l	100
12) Acrolein	7.15	56	7488	26.47690	ppb	95
13) Acetone	7.29	43	5599	3.46393	ppb	93
14) Freon-113	7.43	101	3032	-0.91166	ppb	# 70
15) 1,1-DCE	7.68	96	9367	0.58157	ppb	86
16) t-Butanol	7.75	59	1553	20.30572	ppb	100
17) Methyl Acetate	8.18	43	6610	0.76232	ppb	# 81
18) Iodomethane	8.16	142	1888	3.95744	ppb	# 59
19) Acrylonitrile	8.56	53	526	-0.07185	ppb	# 71
20) Methylene chloride	8.48	84	9369	0.60986	ppb	86
21) Carbon disulfide	8.56	76	8089	0.51688	ppb	94
22) Methyl t-butyl ether (MtBE)	8.89	73	12097	0.49691	ppb	93
23) Trans-1,2-DCE	9.08	96	10320	0.62725	ppb	75
24) Diisopropyl Ether	9.74	45	26624	0.49469	ppb	# 77
25) 1,1-DCA	9.79	63	15171	0.47532	ppb	# 86
26) Vinyl Acetate	9.43	43	11823	-0.17906	ppb	# 82
27) Ethyl tert Butyl Ether	10.44	59	17474	0.47557	ppb	99
28) MEK (2-Butanone)	10.44	43	6392	0.38220	ppb	# 76
29) Cis-1,2-DCE	10.81	96	11141	0.58022	ppb	# 62
30) 2,2-Dichloropropane	10.83	77	12554	0.54909	ppb	96
31) Chloroform	11.09	83	15337	0.49949	ppb	92
32) Bromochloromethane	11.30	128	2576	0.48189	ppb	# 33
34) 1,1,1-TCA	11.83	97	13833	0.49538	ppb	# 82
35) Cyclohexane	11.99	56	15403	0.59245	ppb	78
36) 1,1-Dichloropropene	12.10	75	11774	0.49209	ppb	# 84
37) 2,2,4-Trimethylpentane	12.18	57	50886	0.23590	ppb	93
39) Carbon Tetrachloride	12.29	117	8982	0.46713	ppb	86

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

Data File : M:\CHICO\DATA\C111030\1030C16W.D
 Acq On : 31 Oct 11 00:11
 Sample : Voc Std 10-30-11@0.5ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue	
40) Tert Amyl Methyl Ether	12.34	73	15291	0.55657	ppb	#	82
41) 1,2-DCA	12.36	62	7266	0.46101	ppb		99
42) Benzene	12.50	78	34203	0.49755	ppb	#	86
43) TCE	13.53	95	9675	0.50818	ppb	#	76
44) 2-Pentanone	13.21	43	103205	25.91480	ppb		91
45) 1,2-Dichloropropane	13.77	63	8115	0.51936	ppb		98
46) Bromodichloromethane	14.11	83	7962	0.44603	ppb	#	98
47) Methyl Cyclohexane	13.81	83	12697	0.57069	ppb		99
48) Dibromomethane	14.16	93	3011	0.48185	ppb	#	68
49) 2-Chloroethyl vinyl ether	14.58	63	1634	0.41135	ppb	#	59
50) 1-Bromo-2-chloroethane	14.88	63	6436	0.48274	ppb	#	66
51) Cis-1,3-Dichloropropene	15.00	75	7471	0.43891	ppb	#	75
52) Toluene	15.63	91	34808	0.51338	ppb		87
53) Trans-1,3-Dichloropropene	15.80	75	6124	0.49974	ppb	#	83
54) 1,1,2-TCA	16.08	83	3198	0.48419	ppb	#	78
57) 1,2-EDB	17.33	107	3029	0.41446	ppb	#	80
58) Tetrachloroethene	16.78	164	11617	0.58843	ppb		81
59) 1-Chlorohexane	17.70	91	11679	0.51371	ppb		93
60) 1,1,1,2-Tetrachloroethane	18.16	131	5373	0.43472	ppb		80
61) m&p-Xylene	18.36	106	28523	0.97798	ppb		92
62) o-Xylene	19.10	106	14161	0.50486	ppb		88
63) Styrene	19.13	104	20171	0.47643	ppb		89
65) 2-Hexanone	16.11	43	2059	0.58599	ppb	#	78
66) 1,3-Dichloropropane	16.50	76	7249	0.50300	ppb		84
67) Dibromochloromethane	16.95	129	3807	0.40465	ppb		74
68) Chlorobenzene	18.11	112	20370	0.48823	ppb	#	81
69) Ethylbenzene	18.21	91	37896	0.48777	ppb		98
70) Bromoform	19.62	173	1156	1.34654	ppb	#	37
72) MIBK (methyl isobutyl keto)	14.67	43	3016	0.53285	ppb	#	51
73) Isopropylbenzene	19.73	105	35995	0.49881	ppb		90
74) 1,1,2,2-Tetrachloroethane	19.89	83	2684	0.44432	ppb	#	86
75) 1,2,3-Trichloropropane	20.15	110	430	0.71972	ppb	#	57
76) t-1,4-Dichloro-2-Butene	20.21	53	1066	0.77827	ppb	#	42
77) Bromobenzene	20.47	156	9129	0.54844	ppb	#	86
78) n-Propylbenzene	20.44	91	42985	0.49932	ppb		89
79) 4-Ethyltoluene	20.63	105	29592	0.49673	ppb		84
80) 2-Chlorotoluene	20.73	91	31711	0.55619	ppb	#	79
81) 1,3,5-Trimethylbenzene	20.71	105	29710	0.50692	ppb		88
82) 4-Chlorotoluene	20.82	91	23555	0.47979	ppb		86
83) Tert-Butylbenzene	21.36	119	33054	0.52092	ppb		95
84) 1,2,4-Trimethylbenzene	21.41	105	32321	0.52802	ppb	#	68
85) Sec-Butylbenzene	21.76	105	36729	0.48267	ppb		87
86) p-Isopropyltoluene	22.00	119	32111	0.49266	ppb		93
87) Benzyl Chloride	22.43	91	4589	0.53039	ppb		91
88) 1,3-DCB	22.11	146	17221	0.50589	ppb	#	84
89) 1,4-DCB	22.29	146	15280	0.48363	ppb		95
90) Hexachloroethane	23.59	117	1692	2.09850	ppb	#	60
91) n-Butylbenzene	22.70	91	30355	0.53395	ppb		90
92) 1,2-DCB	22.92	146	13282	0.49053	ppb		92
93) 1,2-Dibromo-3-chloropropan	24.16	155	468	1.71132	ppb	#	1
94) 1,2,4-Trichlorobenzene	25.58	180	11120	0.56675	ppb		82

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

1030C16W.D CALLW.M Fri Dec 02 11:20:45 2011

Data File : M:\CHICO\DATA\C111030\1030C16W.D Vial: 1
 Acq On : 31 Oct 11 00:11 Operator: STC
 Sample : Voc Std 10-30-11@0.5ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) Hexachlorobutadiene	25.83	223	2317	0.64998	ppb #	59
96) Naphthalene	25.93	128	13003	0.53713	ppb #	92
97) 1,2,3-Trichlorobenzene	26.30	180	7873	0.53048	ppb #	70

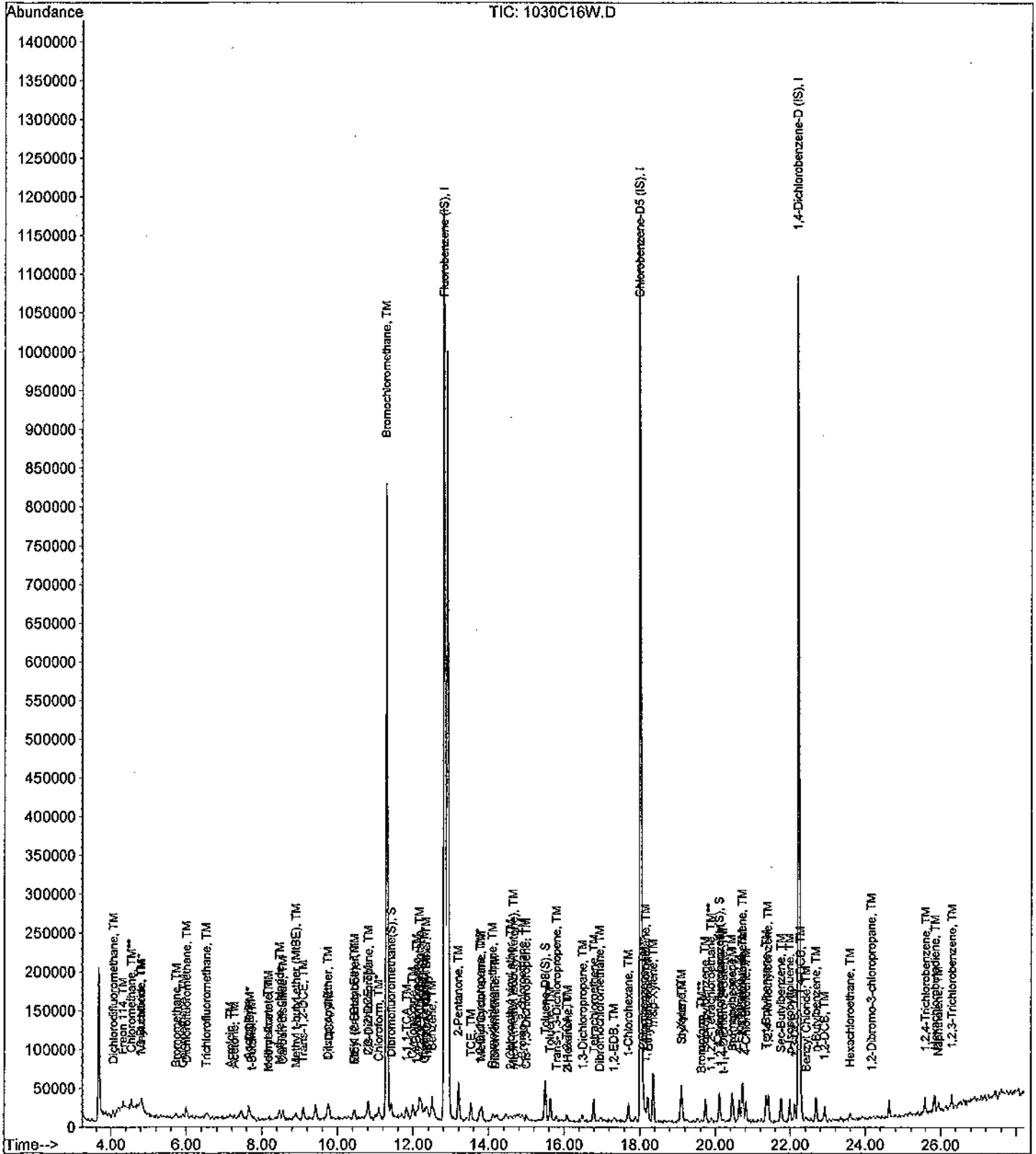
Data File : M:\CHICO\DATA\C111030\1030C16W.D
 Acq On : 31 Oct 11 00:11
 Sample : Voc Std 10-30-11@0.5ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C17W.D Vial: 1
 Acq On : 31 Oct 11 00:54 Operator: STC
 Sample : Voc Std 10-30-11@1.0ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	12.84	96	539200	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.03	117	383872	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.24	152	197760	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.42	111	29134	2.02833	ppb	0.00
Spiked Amount	25.097		Recovery	=	8.081%	
38) 1,2-DCA-D4(S)	12.22	65	27452	2.14703	ppb	0.00
Spiked Amount	24.225		Recovery	=	8.863%	
56) Toluene-D8(S)	15.50	98	110307	2.04225	ppb	0.00
Spiked Amount	25.808		Recovery	=	7.912%	
64) 4-Bromofluorobenzene(S)	20.11	95	40278	2.08121	ppb	0.00
Spiked Amount	25.459		Recovery	=	8.174%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	4.07	85	20878	1.05095	ppb	# 77
3) Freon 114	4.34	85	13301	1.06904	ppb	79
4) Chloromethane	4.55	50	26727	1.08568	ppb	96
5) Vinyl chloride	4.82	62	20250	1.22976	ppb	92
6) 1,3-Butadiene	4.82	54	298	6.47548	ppb	# 63
7) Bromomethane	5.73	94	10639	0.89005	ppb	88
8) Chloroethane	5.91	64	16785	1.23404	ppb	95
9) Dichlorofluoromethane	6.01	67	40917	1.08801	ppb	99
10) Trichlorofluoromethane	6.54	101	22833	1.02311	ppb	# 73
11) Acetonitrile	7.65	41	29961	50.72269	ug/l	100
12) Acrolein	7.16	56	13727	50.78428	ppb	87
13) Acetone	7.28	43	5913	3.82754	ppb	# 80
14) Freon-113	7.47	101	14321	0.06398	ppb	# 85
15) 1,1-DCE	7.68	96	16287	1.05802	ppb	# 61
16) t-Butanol	7.76	59	3312	45.30953	ppb	93
17) Methyl Acetate	8.19	43	8892	1.35363	ppb	91
18) Iodomethane	8.17	142	3919	4.11599	ppb	# 77
19) Acrylonitrile	8.55	53	1511	0.54689	ppb	# 42
20) Methylene chloride	8.47	84	15404	1.04912	ppb	# 71
21) Carbon disulfide	8.56	76	15964	1.06731	ppb	97
22) Methyl t-butyl ether (MtBE)	8.89	73	24721	1.06247	ppb	# 90
23) Trans-1,2-DCE	9.10	96	18800	1.19557	ppb	# 91
24) Diisopropyl Ether	9.75	45	53157	1.03341	ppb	96
25) 1,1-DCA	9.78	63	31252	1.02448	ppb	# 91
26) Vinyl Acetate	9.41	43	15155	0.28793	ppb	# 78
27) Ethyl tert Butyl Ether	10.44	59	34422	0.98019	ppb	99
28) MEK (2-Butanone)	10.44	43	9896	1.04178	ppb	# 90
29) Cis-1,2-DCE	10.81	96	18355	1.00018	ppb	79
30) 2,2-Dichloropropane	10.81	77	21461	0.98211	ppb	96
31) Chloroform	11.09	83	29160	0.99364	ppb	95
32) Bromochloromethane	11.32	128	5916	1.15793	ppb	90
34) 1,1,1-TCA	11.83	97	27369	1.02550	ppb	88
35) Cyclohexane	12.00	56	26209	1.05474	ppb	95
36) 1,1-Dichloropropene	12.09	75	26709	1.16796	ppb	# 85
37) 2,2,4-Trimethylpentane	12.17	57	63801	0.66906	ppb	93
39) Carbon Tetrachloride	12.29	117	16287	0.88625	ppb	97

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

1030C17W.D CALLW.M Fri Dec 02 11:20:50 2011

Data File : M:\CHICO\DATA\C111030\1030C17W.D
 Acq On : 31 Oct 11 00:54
 Sample : Voc Std 10-30-11@1.0ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)

Title : METHOD 8260

Last Update : Fri Dec 02 11:18:49 2011

Response via : Initial Calibration

DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40) Tert Amyl Methyl Ether	12.35	73	26700	1.01682	ppb	98
41) 1,2-DCA	12.38	62	14649	0.97246	ppb #	86
42) Benzene	12.49	78	69760	1.06177	ppb #	93
43) TCE	13.53	95	19974	1.09770	ppb	87
44) 2-Pentanone	13.20	43	182845	48.03774	ppb	99
45) 1,2-Dichloropropane	13.77	63	16180	1.08346	ppb	97
46) Bromodichloromethane	14.12	83	17574	1.03007	ppb #	98
47) Methyl Cyclohexane	13.82	83	20818	0.97903	ppb	89
48) Dibromomethane	14.16	93	6074	1.01701	ppb #	71
49) 2-Chloroethyl vinyl ether	14.58	63	3448	0.90821	ppb	94
50) 1-Bromo-2-chloroethane	14.88	63	12639	0.99189	ppb #	62
51) Cis-1,3-Dichloropropene	15.01	75	16679	1.02522	ppb	86
52) Toluene	15.63	91	63296	0.97675	ppb	83
53) Trans-1,3-Dichloropropene	15.81	75	10774	0.91989	ppb	92
54) 1,1,2-TCA	16.09	83	5625	0.89108	ppb	89
57) 1,2-EDB	17.32	107	6774	0.92719	ppb #	92
58) Tetrachloroethene	16.79	164	20256	1.02636	ppb	96
59) 1-Chlorohexane	17.70	91	22047	0.97009	ppb	95
60) 1,1,1,2-Tetrachloroethane	18.16	131	10874	0.88009	ppb	87
61) m&p-Xylene	18.35	106	56585	1.94079	ppb	87
62) o-Xylene	19.10	106	25167	0.89753	ppb	93
63) Styrene	19.12	104	40956	0.96769	ppb	88
65) 2-Hexanone	16.10	43	3038	0.86490	ppb #	70
66) 1,3-Dichloropropane	16.49	76	13620	0.94539	ppb	85
67) Dibromochloromethane	16.98	129	8452	0.89867	ppb #	59
68) Chlorobenzene	18.10	112	40045	0.96012	ppb	92
69) Ethylbenzene	18.22	91	77629	0.99952	ppb	96
70) Bromoform	19.64	173	2595	1.61154	ppb #	81
72) MIBK (methyl isobutyl keto)	14.66	43	6936	1.23373	ppb #	66
73) Isopropylbenzene	19.74	105	73566	1.02638	ppb #	82
74) 1,1,2,2-Tetrachloroethane	19.90	83	5631	0.93852	ppb	82
75) 1,2,3-Trichloropropane	20.15	110	1160	1.79904	ppb #	72
76) t-1,4-Dichloro-2-Butene	20.24	53	1095	0.80488	ppb #	13
77) Bromobenzene	20.48	156	16894	1.02183	ppb	83
78) n-Propylbenzene	20.44	91	88461	1.03456	ppb	99
79) 4-Ethyltoluene	20.64	105	60450	1.02161	ppb	93
80) 2-Chlorotoluene	20.73	91	57667	1.01832	ppb	95
81) 1,3,5-Trimethylbenzene	20.71	105	59903	1.02902	ppb	95
82) 4-Chlorotoluene	20.81	91	52108	1.06859	ppb	96
83) Tert-Butylbenzene	21.35	119	63199	1.00276	ppb	94
84) 1,2,4-Trimethylbenzene	21.42	105	63077	1.03747	ppb	94
85) Sec-Butylbenzene	21.76	105	75467	0.99848	ppb	94
86) p-Isopropyltoluene	21.99	119	62593	0.96686	ppb	95
87) Benzyl Chloride	22.43	91	7387	0.85958	ppb #	79
88) 1,3-DCB	22.14	146	33327	0.98569	ppb	96
89) 1,4-DCB	22.30	146	31510	1.00410	ppb	98
90) Hexachloroethane	23.60	117	5631	2.41666	ppb #	75
91) n-Butylbenzene	22.70	91	57562	1.01941	ppb	93
92) 1,2-DCB	22.92	146	25391	0.94412	ppb #	84
93) 1,2-Dibromo-3-chloropropan	24.15	155	691	1.91673	ppb #	73
94) 1,2,4-Trichlorobenzene	25.59	180	19884	1.02031	ppb	78

(#) = qualifier out of range (m) = manual integration
 1030C17W.D CALLW.M Fri Dec 02 11:20:51 2011

Data File : M:\CHICO\DATA\C111030\1030C17W.D Vial: 1
Acq On : 31 Oct 11 00:54 Operator: STC
Sample : Voc Std 10-30-11@1.0ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Dec 02 11:18:49 2011
Response via : Initial Calibration
DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) Hexachlorobutadiene	25.84	223	3387	0.95661	ppb	84
96) Naphthalene	25.94	128	24301	1.01065	ppb	97
97) 1,2,3-Trichlorobenzene	26.29	180	13947	0.94613	ppb	97

Quantitation Report

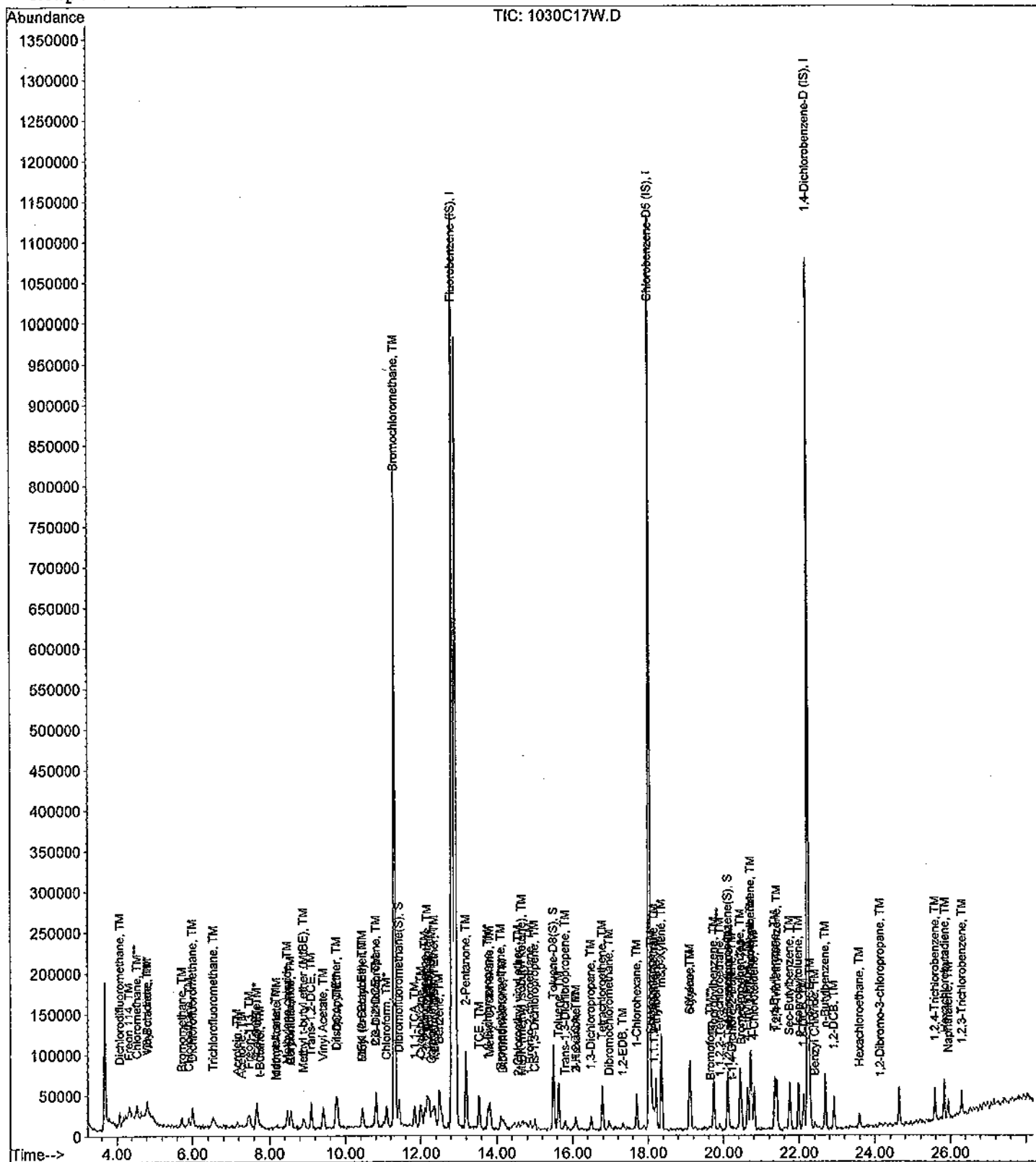
Data File : M:\CHICO\DATA\C111030\1030C17W.D
 Acq On : 31 Oct 11 00:54
 Sample : Voc Std 10-30-11@1.0ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C18W.D Vial: 1
 Acq On : 31 Oct 11 1:37 Operator: STC
 Sample : Voc Std 10-30-11@2.0ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.83	96	543693	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.04	117	392832	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.24	152	191296	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.42	111	60078	4.14811	ppb	0.00
Spiked Amount	25.097		Recovery	=	16.528%	
38) 1,2-DCA-D4(S)	12.22	65	54589	4.23414	ppb	0.00
Spiked Amount	24.225		Recovery	=	17.478%	
56) Toluene-D8(S)	15.50	98	219343	3.96834	ppb	0.00
Spiked Amount	25.808		Recovery	=	15.375%	
64) 4-Bromofluorobenzene(S)	20.11	95	76951	3.88546	ppb	0.00
Spiked Amount	25.459		Recovery	=	15.260%	
Target Compounds						
2) Dichlorodifluoromethane	4.07	85	36846	1.83942	ppb	95
3) Freon 114	4.32	85	25225	2.01066	ppb	95
4) Chloromethane	4.55	50	51493	2.07441	ppb	100
5) Vinyl chloride	4.81	62	31638	1.90546	ppb	92
6) 1,3-Butadiene	4.84	54	317	6.83143	ppb	# 82
7) Bromomethane	5.71	94	28199	2.33962	ppb	74
8) Chloroethane	5.92	64	27665	2.01714	ppb	90
9) Dichlorofluoromethane	6.00	67	80153	2.11371	ppb	99
10) Trichlorofluoromethane	6.54	101	46217	2.05380	ppb	88
11) Acetonitrile	7.66	41	44013	73.89637	ug/l	100
12) Acrolein	7.16	56	19054	69.90947	ppb	98
13) Acetone	7.27	43	7499	4.81405	ppb	# 42
14) Freon-113	7.46	101	27051	1.13214	ppb	88
15) 1,1-DCE	7.68	96	30774	1.98259	ppb	95
16) t-Butanol	7.77	59	6037	81.90616	ppb	# 90
17) Methyl Acetate	8.19	43	14018	2.50439	ppb	92
18) Iodomethane	8.16	142	9850	4.55459	ppb	# 90
19) Acrylonitrile	8.55	53	4257	2.21042	ppb	# 19
20) Methylene chloride	8.48	84	31366	2.11859	ppb	85
21) Carbon disulfide	8.57	76	31256	2.07243	ppb	98
22) Methyl t-butyl ether (MtBE)	8.91	73	49153	2.09506	ppb	96
23) Trans-1,2-DCE	9.10	96	38306	2.41590	ppb	94
24) Diisopropyl Ether	9.76	45	107058	2.06409	ppb	95
25) 1,1-DCA	9.80	63	63745	2.07237	ppb	98
26) Vinyl Acetate	9.41	43	25227	1.48278	ppb	94
27) Ethyl tert Butyl Ether	10.45	59	76607	2.16342	ppb	92
28) MEK (2-Butanone)	10.43	43	15669	2.02476	ppb	99
29) Cis-1,2-DCE	10.80	96	37483	2.02559	ppb	88
30) 2,2-Dichloropropane	10.81	77	45572	2.06826	ppb	95
31) Chloroform	11.08	83	60802	2.05473	ppb	96
32) Bromochloromethane	11.31	128	10121	1.96459	ppb	82
34) 1,1,1-TCA	11.83	97	53989	2.00623	ppb	93
35) Cyclohexane	12.00	56	52880	2.11050	ppb	95
36) 1,1-Dichloropropene	12.11	75	46149	2.00137	ppb	96
37) 2,2,4-Trimethylpentane	12.19	57	95598	1.55463	ppb	92
39) Carbon Tetrachloride	12.30	117	36525	1.97107	ppb	97

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

1030C18W.D CALLW.M Fri Dec 02 11:20:57 2011

Data File : M:\CHICO\DATA\C111030\1030C18W.D
 Acq On : 31 Oct 11 1:37
 Sample : Voc Std 10-30-11@2.0ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40) Tert Amyl Methyl Ether	12.36	73	55233	2.08607	ppb	# 90
41) 1,2-DCA	12.38	62	31308	2.06118	ppb	# 89
42) Benzene	12.50	78	136536	2.06095	ppb	98
43) TCE	13.53	95	39821	2.17034	ppb	94
44) 2-Pentanone	13.20	43	299963	78.15618	ppb	98
45) 1,2-Dichloropropane	13.76	63	28619	1.90057	ppb	96
46) Bromodichloromethane	14.11	83	33573	1.95155	ppb	94
47) Methyl Cyclohexane	13.82	83	40581	1.89267	ppb	83
48) Dibromomethane	14.18	93	12379	2.05557	ppb	85
49) 2-Chloroethyl vinyl ether	14.57	63	8433	2.20290	ppb	# 78
50) 1-Bromo-2-chloroethane	14.88	63	26134	2.03401	ppb	# 77
51) Cis-1,3-Dichloropropene	15.00	75	32272	1.96729	ppb	92
52) Toluene	15.64	91	132018	2.02040	ppb	99
53) Trans-1,3-Dichloropropene	15.80	75	23617	1.99976	ppb	93
54) 1,1,2-TCA	16.07	83	13091	2.05665	ppb	90
57) 1,2-EDB	17.33	107	13384	1.79015	ppb	# 92
58) Tetrachloroethene	16.79	164	40109	1.98595	ppb	92
59) 1-Chlorohexane	17.70	91	46192	1.98613	ppb	96
60) 1,1,1,2-Tetrachloroethane	18.15	131	23520	1.86019	ppb	89
61) m&p-Xylene	18.36	106	110324	3.69766	ppb	95
62) o-Xylene	19.09	106	52936	1.84480	ppb	88
63) Styrene	19.12	104	82149	1.89672	ppb	97
65) 2-Hexanone	16.12	43	7490	2.08373	ppb	85
66) 1,3-Dichloropropane	16.50	76	29140	1.97652	ppb	91
67) Dibromochloromethane	16.96	129	16360	1.69982	ppb	100
68) Chlorobenzene	18.11	112	79768	1.86890	ppb	98
69) Ethylbenzene	18.21	91	149915	1.88621	ppb	93
70) Bromoform	19.64	173	6510	2.30500	ppb	# 44
72) MIBK (methyl isobutyl keto	14.67	43	12611	2.31897	ppb	# 76
73) Isopropylbenzene	19.73	105	142568	2.05630	ppb	95
74) 1,1,2,2-Tetrachloroethane	19.90	83	12016	2.07037	ppb	# 84
75) 1,2,3-Trichloropropane	20.16	110	1264	2.01509	ppb	# 74
76) t-1,4-Dichloro-2-Butene	20.21	53	2422	1.84044	ppb	# 55
77) Bromobenzene	20.48	156	33262	2.07982	ppb	93
78) n-Propylbenzene	20.45	91	180141	2.17796	ppb	94
79) 4-Ethyltoluene	20.64	105	114833	2.00627	ppb	95
80) 2-Chlorotoluene	20.74	91	114105	2.08302	ppb	94
81) 1,3,5-Trimethylbenzene	20.72	105	116458	2.06813	ppb	96
82) 4-Chlorotoluene	20.81	91	100754	2.13600	ppb	94
83) Tert-Butylbenzene	21.36	119	127189	2.08627	ppb	98
84) 1,2,4-Trimethylbenzene	21.41	105	117571	1.99911	ppb	93
85) Sec-Butylbenzene	21.75	105	153012	2.09286	ppb	92
86) p-Isopropyltoluene	21.99	119	133490	2.13166	ppb	95
87) Benzyl Chloride	22.42	91	15798	1.90043	ppb	# 85
88) 1,3-DCB	22.13	146	68550	2.09596	ppb	97
89) 1,4-DCB	22.29	146	62433	2.05672	ppb	94
90) Hexachloroethane	23.60	117	11613	2.93003	ppb	93
91) n-Butylbenzene	22.70	91	110023	2.01433	ppb	97
92) 1,2-DCB	22.93	146	54129	2.08070	ppb	92
93) 1,2-Dibromo-3-chloropropan	24.14	155	1335	2.54260	ppb	84
94) 1,2,4-Trichlorobenzene	25.58	180	37932	2.01219	ppb	89

(#) = qualifier out of range (m) = manual integration
 1030C18W.D CALLW.M Fri Dec 02 11:20:58 2011

Data File : M:\CHICO\DATA\C111030\1030C18W.D Vial: 1
Acq On : 31 Oct 11 1:37 Operator: STC
Sample : Voc Std 10-30-11@2.0ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Dec 02 11:18:49 2011
Response via : Initial Calibration
DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) Hexachlorobutadiene	25.84	223	6417	1.87363	ppb #	88
96) Naphthalene	25.93	128	46421	1.99582	ppb	98
97) 1,2,3-Trichlorobenzene	26.30	180	33171	2.32627	ppb	93

Quantitation Report

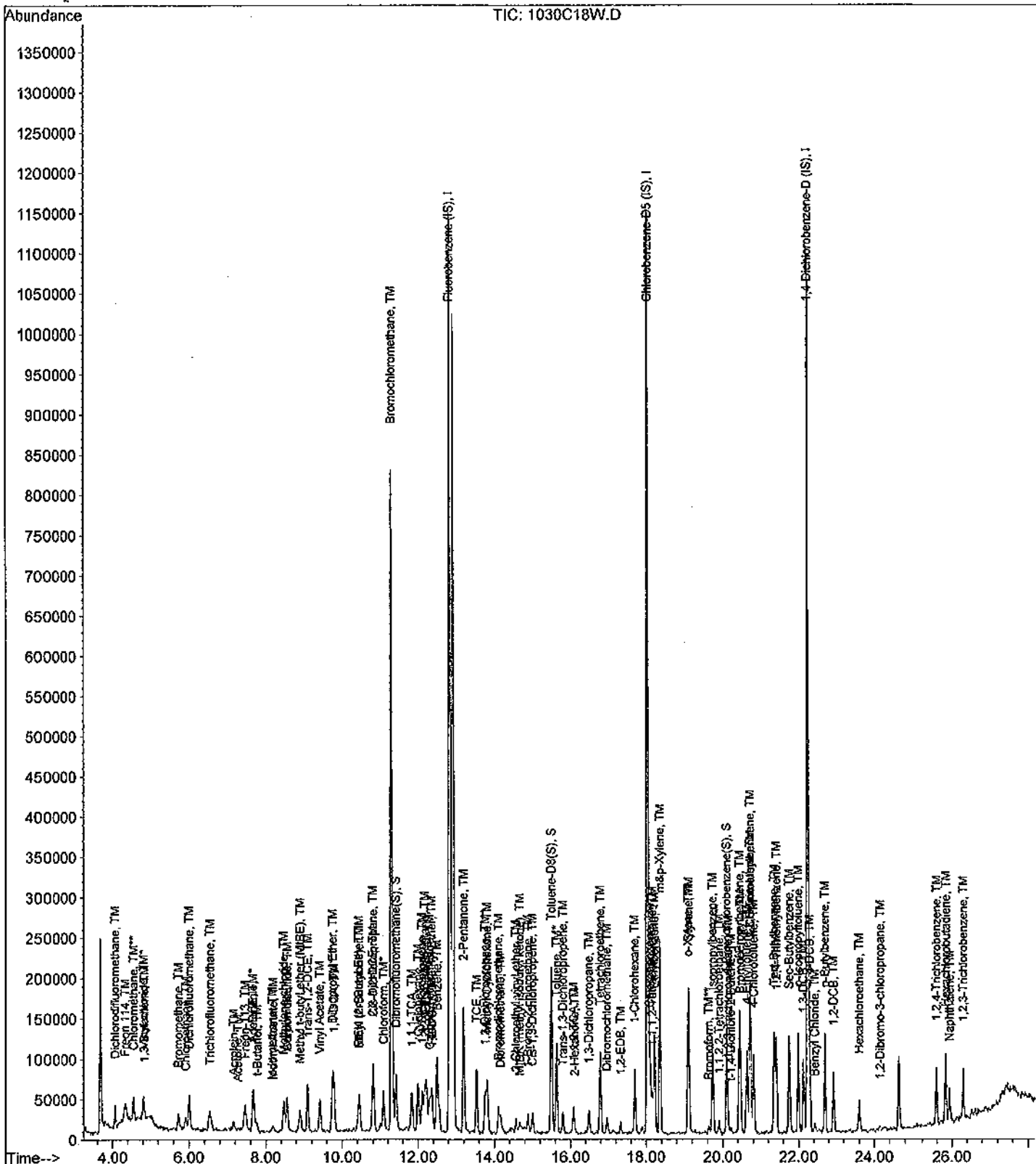
Data File : M:\CHICO\DATA\C111030\1030C18W.D
Acq On : 31 Oct 11 1:37
Sample : Voc Std 10-30-11@2.0ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Dec 02 11:18:49 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C19W.D
 Acq On : 31 Oct 11 2:20
 Sample : Voc Std 10-30-11@5.0ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	96	541888	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.03	117	369024	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.24	152	201600	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.43	111	148052	10.25637	ppb	0.00
Spiked Amount	25.097		Recovery	=	40.865%	
38) 1,2-DCA-D4(S)	12.23	65	131632	10.24391	ppb	0.00
Spiked Amount	24.225		Recovery	=	42.286%	
56) Toluene-D8(S)	15.50	98	537545	10.35266	ppb	0.00
Spiked Amount	25.808		Recovery	=	40.115%	
64) 4-Bromofluorobenzene(S)	20.11	95	187725	10.09026	ppb	0.00
Spiked Amount	25.459		Recovery	=	39.632%	
Target Compounds						
2) Dichlorodifluoromethane	4.07	85	95693	4.79307	ppb	98
3) Freon 114	4.35	85	60331	4.82494	ppb	99
4) Chloromethane	4.55	50	115016	4.64888	ppb	98
5) Vinyl chloride	4.82	62	95476	5.76939	ppb	92
6) 1,3-Butadiene	4.78	54	267	5.77308	ppb	# 1
7) Bromomethane	5.73	94	55608	4.62906	ppb	89
8) Chloroethane	5.91	64	65920	4.82244	ppb	93
9) Dichlorofluoromethane	6.01	67	193619	5.12293	ppb	100
10) Trichlorofluoromethane	6.52	101	112493	5.01564	ppb	99
11) Acetonitrile	7.65	41	62470	105.23443	ug/l	100
12) Acrolein	7.15	56	26911	99.06583	ppb	94
13) Acetone	7.29	43	12573	8.09824	ppb	97
14) Freon-113	7.46	101	68643	4.67447	ppb	88
15) 1,1-DCE	7.67	96	76091	4.91843	ppb	89
16) t-Butanol	7.76	59	7217	98.24180	ppb	93
17) Methyl Acetate	8.19	43	20340	3.95990	ppb	95
18) Iodomethane	8.17	142	26092	5.76882	ppb	90
19) Acrylonitrile	8.56	53	8927	5.07063	ppb	92
20) Methylene chloride	8.48	84	71913	4.87349	ppb	94
21) Carbon disulfide	8.56	76	72344	4.81275	ppb	99
22) Methyl t-butyl ether (MtBE)	8.90	73	114808	4.90979	ppb	# 90
23) Trans-1,2-DCE	9.10	96	89303	5.65097	ppb	95
24) Diisopropyl Ether	9.75	45	260084	5.03115	ppb	91
25) 1,1-DCA	9.79	63	163680	5.33900	ppb	96
26) Vinyl Acetate	9.42	43	54231	4.98892	ppb	# 79
27) Ethyl tert Butyl Ether	10.44	59	180946	5.12702	ppb	98
28) MEK (2-Butanone)	10.43	43	31144	4.71582	ppb	# 87
29) Cis-1,2-DCE	10.82	96	90101	4.88531	ppb	94
30) 2,2-Dichloropropane	10.82	77	110498	5.03159	ppb	99
31) Chloroform	11.10	83	153864	5.21698	ppb	100
32) Bromochloromethane	11.31	128	28344	5.52019	ppb	86
34) 1,1,1-TCA	11.84	97	133883	4.99165	ppb	96
35) Cyclohexane	12.00	56	119918	4.80199	ppb	98
36) 1,1-Dichloropropene	12.10	75	117037	5.09252	ppb	98
37) 2,2,4-Trimethylpentane	12.18	57	209064	4.78823	ppb	95
39) Carbon Tetrachloride	12.30	117	94473	5.11522	ppb	93

(#) = qualifier out of range (m) = manual integration
 1030C19W.D CALLW.M Fri Dec 02 11:21:03 2011

Data File : M:\CHICO\DATA\C111030\1030C19W.D
 Acq On : 31 Oct 11 2:20
 Sample : Voc Std 10-30-11@5.0ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40) Tert Amyl Methyl Ether	12.36	73	128972	4.88731	ppb	98
41) 1,2-DCA	12.38	62	76954	5.08320	ppb	98
42) Benzene	12.50	78	331433	5.01951	ppb	100
43) TCE	13.54	95	94771	5.18246	ppb	92
44) 2-Pentanone	13.20	43	389562	101.83954	ppb	98
45) 1,2-Dichloropropane	13.77	63	79197	5.27695	ppb	96
46) Bromodichloromethane	14.12	83	87445	5.09999	ppb	96
47) Methyl Cyclohexane	13.82	83	103751	4.85498	ppb	94
48) Dibromomethane	14.16	93	31588	5.26275	ppb	82
49) 2-Chloroethyl vinyl ether	14.58	63	20703	5.42613	ppb #	92
50) 1-Bromo-2-chloroethane	14.88	63	66427	5.18724	ppb	82
51) Cis-1,3-Dichloropropene	15.01	75	82661	5.05577	ppb	98
52) Toluene	15.63	91	327752	5.03263	ppb	100
53) Trans-1,3-Dichloropropene	15.80	75	58149	4.94014	ppb	92
54) 1,1,2-TCA	16.08	83	31919	5.03132	ppb	92
57) 1,2-EDB	17.32	107	37026	5.27183	ppb #	70
58) Tetrachloroethene	16.79	164	96522	5.08752	ppb	93
59) 1-Chlorohexane	17.70	91	112708	5.15879	ppb	93
60) 1,1,1,2-Tetrachloroethane	18.16	131	63531	5.34881	ppb	97
61) m&p-Xylene	18.36	106	280238	9.99854	ppb	95
62) o-Xylene	19.11	106	143606	5.32749	ppb	99
63) Styrene	19.12	104	215758	5.30297	ppb	96
65) 2-Hexanone	16.11	43	15947	4.72270	ppb	87
66) 1,3-Dichloropropane	16.50	76	70642	5.10067	ppb	92
67) Dibromochloromethane	16.97	129	44643	4.93770	ppb	89
68) Chlorobenzene	18.10	112	203928	5.08611	ppb	100
69) Ethylbenzene	18.22	91	385898	5.16857	ppb	100
70) Bromoform	19.63	173	18516	4.67993	ppb	89
72) MIBK (methyl isobutyl keto	14.68	43	24562	4.28572	ppb	100
73) Isopropylbenzene	19.74	105	367532	5.03008	ppb	99
74) 1,1,2,2-Tetrachloroethane	19.90	83	28865	4.71928	ppb #	80
75) 1,2,3-Trichloropropane	20.15	110	3527	5.18588	ppb #	55
76) t-1,4-Dichloro-2-Butene	20.22	53	6664	4.80505	ppb #	82
77) Bromobenzene	20.48	156	83579	4.95894	ppb	96
78) n-Propylbenzene	20.44	91	444891	5.10396	ppb	99
79) 4-Ethyltoluene	20.64	105	295868	4.90496	ppb	95
80) 2-Chlorotoluene	20.73	91	295014	5.11030	ppb	95
81) 1,3,5-Trimethylbenzene	20.71	105	303247	5.11000	ppb	98
82) 4-Chlorotoluene	20.82	91	244634	4.92119	ppb	94
83) Tert-Butylbenzene	21.36	119	322939	5.02640	ppb	96
84) 1,2,4-Trimethylbenzene	21.42	105	306527	4.94563	ppb	98
85) Sec-Butylbenzene	21.76	105	387689	5.03168	ppb	98
86) p-Isopropyltoluene	21.99	119	333281	5.05005	ppb	97
87) Benzyl Chloride	22.43	91	41624	4.75127	ppb	92
88) 1,3-DCB	22.14	146	173843	5.04369	ppb	91
89) 1,4-DCB	22.30	146	155968	4.87542	ppb	94
90) Hexachloroethane	23.60	117	36490	4.84597	ppb	81
91) n-Butylbenzene	22.70	91	281770	4.89505	ppb	94
92) 1,2-DCB	22.93	146	134998	4.92405	ppb	97
93) 1,2-Dibromo-3-chloropropan	24.14	155	4220	5.04887	ppb	94
94) 1,2,4-Trichlorobenzene	25.59	180	99085	4.98753	ppb	96

(#) = qualifier out of range (m) = manual integration
 1030C19W.D CALLW.M Fri Dec 02 11:21:04 2011

Data File : M:\CHICO\DATA\C111030\1030C19W.D Vial: 1
 Acq On : 31 Oct 11 2:20 Operator: STC
 Sample : Voc Std 10-30-11@5.0ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) Hexachlorobutadiene	25.84	223	15832	4.38634	ppb	86
96) Naphthalene	25.94	128	114277	4.66210	ppb	98
97) 1,2,3-Trichlorobenzene	26.29	180	73429	4.88636	ppb	92

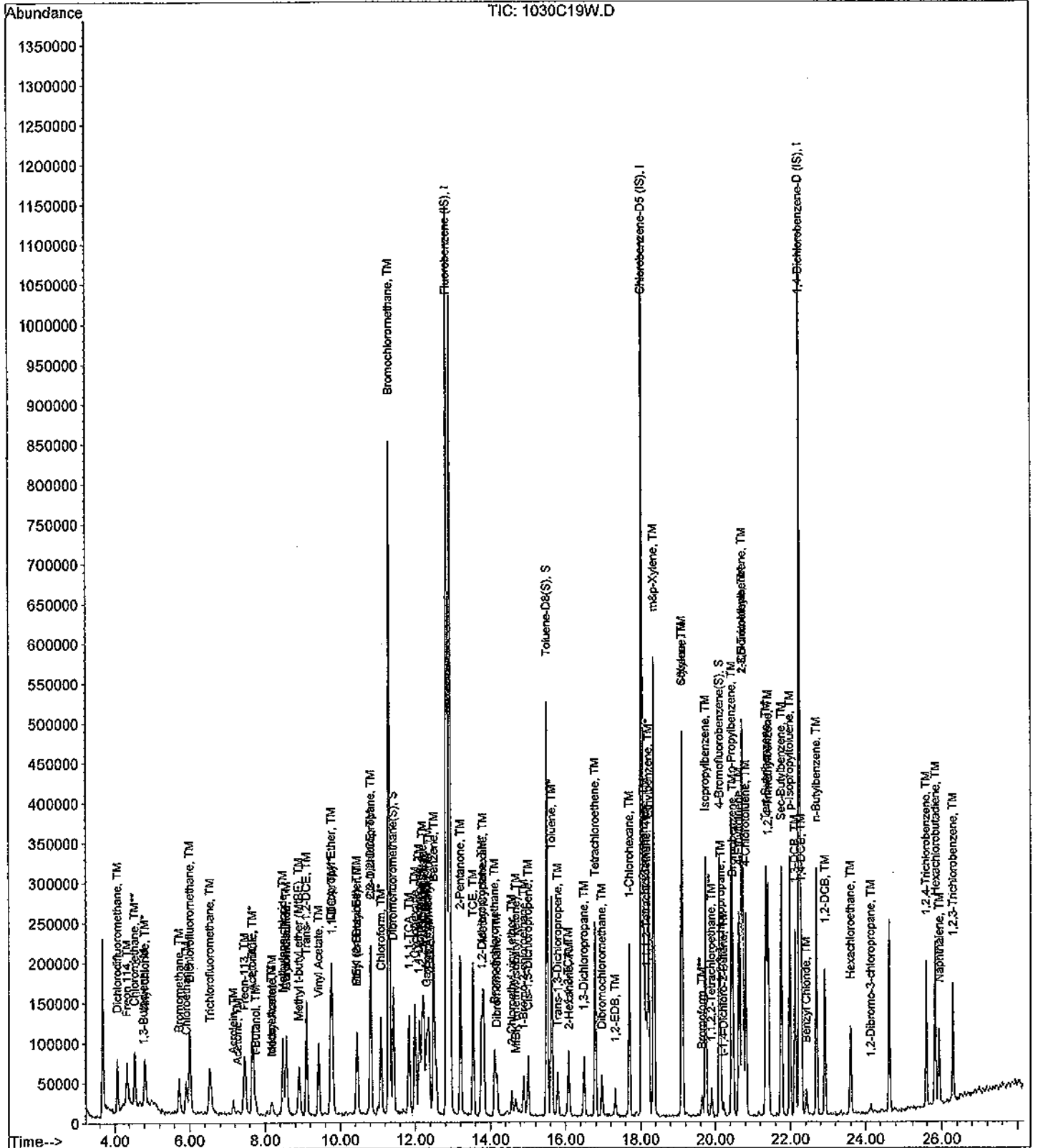
Data File : M:\CHICO\DATA\C111030\1030C19W.D
Acq On : 31 Oct 11 2:20
Sample : Voc Std 10-30-11@5.0ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Dec 02 11:18:49 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C20W.D Vial: 1
 Acq On : 31 Oct 11 3:03 Operator: STC
 Sample : Voc Std 10-30-11@10ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	96	556544	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.04	117	375296	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.24	152	203520	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.43	111	379665	25.60885	ppb	0.00
Spiked Amount	25.097		Recovery	=	102.039%	
38) 1,2-DCA-D4(S)	12.23	65	325575	24.66979	ppb	0.00
Spiked Amount	24.225		Recovery	=	101.836%	
56) Toluene-D8(S)	15.50	98	1312175	24.84903	ppb	0.00
Spiked Amount	25.808		Recovery	=	96.283%	
64) 4-Bromofluorobenzene(S)	20.11	95	480879	25.41539	ppb	0.00
Spiked Amount	25.459		Recovery	=	99.825%	
Target Compounds						
2) Dichlorodifluoromethane	4.07	85	203737	9.93605	ppb	100
3) Freon 114	4.33	85	139352	10.85112	ppb	100
4) Chloromethane	4.55	50	239697	9.43328	ppb	100
5) Vinyl chloride	4.82	62	177123	10.42127	ppb	100
6) 1,3-Butadiene	4.83	54	475	10.00000	ppb	100
7) Bromomethane	5.73	94	118673	9.61873	ppb	100
8) Chloroethane	5.91	64	132559	9.44211	ppb	100
9) Dichlorofluoromethane	6.01	67	384006	9.89278	ppb	100
10) Trichlorofluoromethane	6.53	101	230965	10.02667	ppb	100
11) Acetonitrile	7.65	41	74340	121.93234	ug/l	100
12) Acrolein	7.16	56	32973	118.18505	ppb	100
13) Acetone	7.28	43	21604	13.54865	ppb	100
14) Freon-113	7.47	101	140200	10.44199	ppb	100
15) 1,1-DCE	7.68	96	152367	9.58945	ppb	100
16) t-Butanol	7.77	59	9738	129.06824	ppb	100
17) Methyl Acetate	8.19	43	49512	10.32908	ppb	100
18) Iodomethane	8.16	142	66421	8.64718	ppb	100
19) Acrylonitrile	8.56	53	18948	10.88495	ppb	100
20) Methylene chloride	8.47	84	148076	9.77073	ppb	100
21) Carbon disulfide	8.56	76	151616	9.82077	ppb	100
22) Methyl t-butyl ether (MtBE)	8.89	73	244998	10.20148	ppb	100
23) Trans-1,2-DCE	9.10	96	182548	11.24718	ppb	100
24) Diisopropyl Ether	9.76	45	539900	10.16896	ppb	100
25) 1,1-DCA	9.79	63	326209	10.36025	ppb	100
26) Vinyl Acetate	9.42	43	98410	10.00173	ppb	100
27) Ethyl tert Butyl Ether	10.45	59	389708	10.75141	ppb	100
28) MEK (2-Butanone)	10.44	43	65986	10.45330	ppb	100
29) Cis-1,2-DCE	10.82	96	187720	9.91021	ppb	100
30) 2,2-Dichloropropane	10.81	77	219771	9.74386	ppb	100
31) Chloroform	11.09	83	311468	10.28266	ppb	100
32) Bromochloromethane	11.32	128	54568	10.34763	ppb	100
34) 1,1,1-TCA	11.84	97	285282	10.35627	ppb	100
35) Cyclohexane	12.00	56	254779	9.93369	ppb	100
36) 1,1-Dichloropropene	12.11	75	236871	10.03533	ppb	100
37) 2,2,4-Trimethylpentane	12.18	57	404324	10.03470	ppb	100
39) Carbon Tetrachloride	12.31	117	201043	10.59877	ppb	100

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

1030C20W.D CALLW.M Fri Dec 02 11:21:09 2011

Data File : M:\CHICO\DATA\C111030\1030C20W.D
 Acq On : 31 Oct 11 3:03
 Sample : Voc Std 10-30-11@10ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40) Tert Amyl Methyl Ether	12.34	73	277234	10.22896	ppb	100
41) 1,2-DCA	12.38	62	162875	10.47539	ppb	100
42) Benzene	12.50	78	685232	10.10446	ppb	100
43) TCE	13.53	95	193489	10.30213	ppb	100
44) 2-Pentanone	13.20	43	514551	130.97195	ppb	100
45) 1,2-Dichloropropane	13.77	63	160165	10.39087	ppb	100
46) Bromodichloromethane	14.11	83	192788	10.94774	ppb	100
47) Methyl Cyclohexane	13.81	83	223185	10.16882	ppb	100
48) Dibromomethane	14.17	93	67961	11.02453	ppb	100
49) 2-Chloroethyl vinyl ether	14.58	63	41287	10.53611	ppb	100
50) 1-Bromo-2-chloroethane	14.89	63	134227	10.20568	ppb	100
51) Cis-1,3-Dichloropropene	15.00	75	178053	10.60342	ppb	100
52) Toluene	15.63	91	682617	10.20555	ppb	100
53) Trans-1,3-Dichloropropene	15.80	75	130192	10.76940	ppb	100
54) 1,1,2-TCA	16.08	83	73187	11.23251	ppb	100
57) 1,2-EDB	17.33	107	76477	10.70696	ppb	100
58) Tetrachloroethene	16.79	164	188693	9.77949	ppb	100
59) 1-Chlorohexane	17.70	91	223919	10.07778	ppb	100
60) 1,1,1,2-Tetrachloroethane	18.16	131	136098	11.26688	ppb	100
61) m&p-Xylene	18.36	106	573288	20.11236	ppb	100
62) o-Xylene	19.11	106	288268	10.51543	ppb	100
63) Styrene	19.13	104	435830	10.53295	ppb	100
65) 2-Hexanone	16.11	43	35479	10.33151	ppb	100
66) 1,3-Dichloropropane	16.49	76	155699	11.05429	ppb	100
67) Dibromochloromethane	16.98	129	100610	10.94190	ppb	100
68) Chlorobenzene	18.11	112	417306	10.23397	ppb	100
69) Ethylbenzene	18.22	91	783451	10.31788	ppb	100
70) Bromoform	19.64	173	44444	9.50336	ppb	100
72) MIBK (methyl isobutyl keto	14.68	43	56876	9.83043	ppb	100
73) Isopropylbenzene	19.73	105	751023	10.18160	ppb	100
74) 1,1,2,2-Tetrachloroethane	19.90	83	68052	11.02118	ppb	100
75) 1,2,3-Trichloropropane	20.16	110	8339	12.02369	ppb	100
76) t-1,4-Dichloro-2-Butene	20.24	53	14863	10.61580	ppb	100
77) Bromobenzene	20.48	156	169233	9.94627	ppb	100
78) n-Propylbenzene	20.44	91	904419	10.27795	ppb	100
79) 4-Ethyltoluene	20.63	105	616295	10.12067	ppb	100
80) 2-Chlorotoluene	20.74	91	594233	10.19632	ppb	100
81) 1,3,5-Trimethylbenzene	20.72	105	587753	9.81075	ppb	100
82) 4-Chlorotoluene	20.82	91	501553	9.99433	ppb	100
83) Tert-Butylbenzene	21.36	119	667298	10.28820	ppb	100
84) 1,2,4-Trimethylbenzene	21.42	105	611300	9.76991	ppb	100
85) Sec-Butylbenzene	21.76	105	815062	10.47861	ppb	100
86) p-Isopropyltoluene	21.99	119	683802	10.26358	ppb	100
87) Benzyl Chloride	22.42	91	84140	9.51375	ppb	100
88) 1,3-DCB	22.12	146	342186	9.83414	ppb	100
89) 1,4-DCB	22.30	146	328879	10.18349	ppb	100
90) Hexachloroethane	23.60	117	91222	9.10196	ppb	100
91) n-Butylbenzene	22.69	91	572922	9.85919	ppb	100
92) 1,2-DCB	22.93	146	290055	10.47995	ppb	100
93) 1,2-Dibromo-3-chloropropan	24.15	155	11552	11.48408	ppb	100
94) 1,2,4-Trichlorobenzene	25.59	180	201946	10.06924	ppb	100

(#) = qualifier out of range (m) = manual integration
 1030C20W.D CALLW.M Fri Dec 02 11:21:10 2011

Data File : M:\CHICO\DATA\C111030\1030C20W.D Vial: 1
Acq On : 31 Oct 11 3:03 Operator: STC
Sample : Voc Std 10-30-11@10ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Dec 02 11:18:49 2011
Response via : Initial Calibration
DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) Hexachlorobutadiene	25.84	223	37504	10.29265	ppb	100
96) Naphthalene	25.94	128	255426	10.32217	ppb	100
97) 1,2,3-Trichlorobenzene	26.29	180	158877	10.47278	ppb	100

Quantitation Report

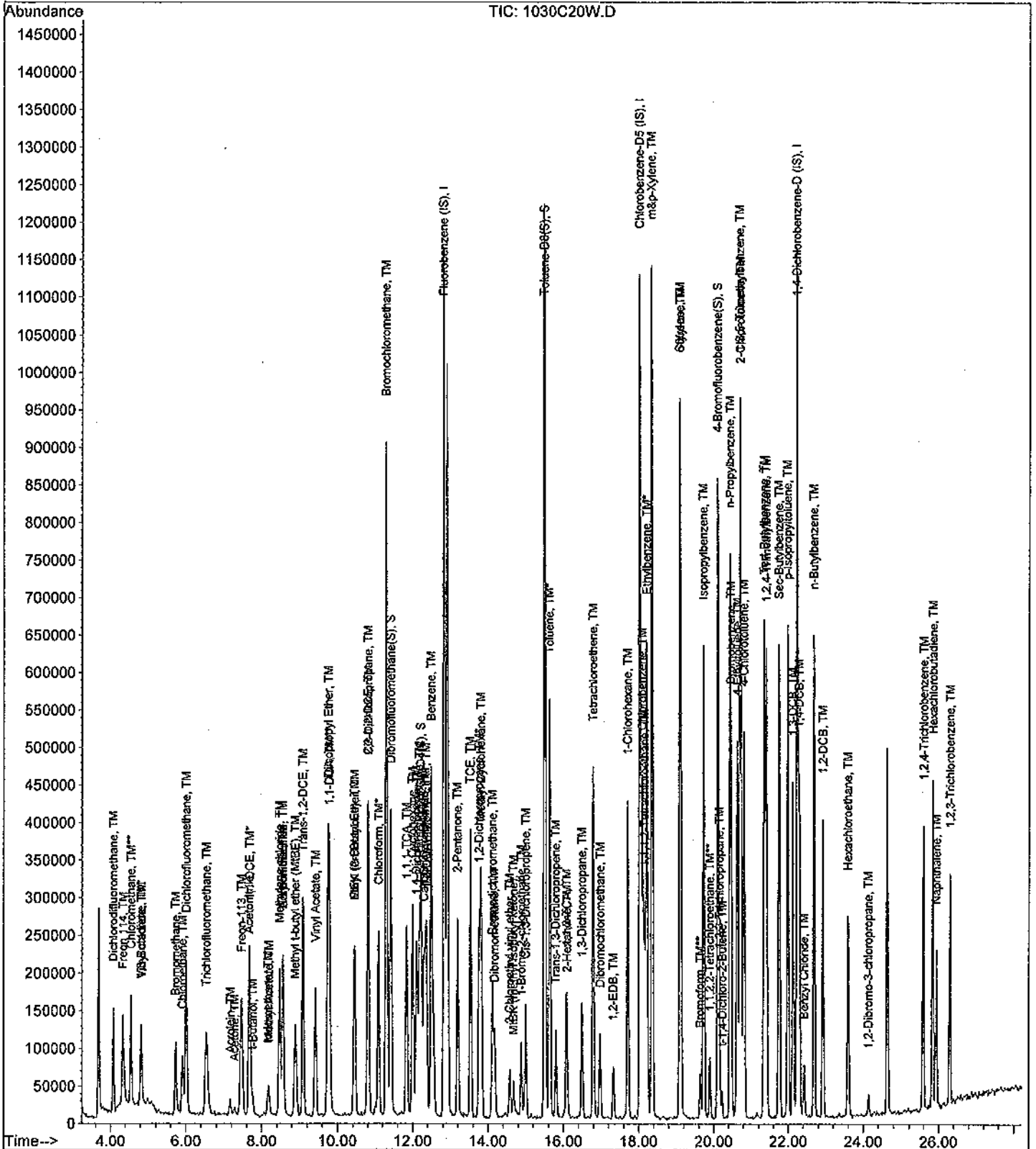
Data File : M:\CHICO\DATA\C111030\1030C20W.D
Acq On : 31 Oct 11 3:03
Sample : Voc Std 10-30-11@10ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Dec 02 11:18:49 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C21W.D
 Acq On : 31 Oct 11 3:46
 Sample : Voc Std 10-30-11@20ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	12.84	96	566784	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.03	117	371200	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.24	152	208640	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane (S)	11.42	111	595137	39.41743	ppb	0.00
Spiked Amount	25.097		Recovery	=	157.057%	
38) 1,2-DCA-D4 (S)	12.23	65	503677	37.47559	ppb	0.00
Spiked Amount	24.225		Recovery	=	154.698%	
56) Toluene-D8 (S)	15.50	98	2079192	39.80872	ppb	0.00
Spiked Amount	25.808		Recovery	=	154.249%	
64) 4-Bromofluorobenzene (S)	20.11	95	744294	39.77146	ppb	0.00
Spiked Amount	25.459		Recovery	=	156.213%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.07	85	430955	20.63753	ppb	98
3) Freon 114	4.34	85	282152	21.57379	ppb	99
4) Chloromethane	4.55	50	489131	18.90198	ppb	99
5) Vinyl chloride	4.81	62	352842	20.38487	ppb	100
6) 1,3-Butadiene	4.83	54	344	7.11126	ppb	# 70
7) Bromomethane	5.73	94	258043	20.53713	ppb	86
8) Chloroethane	5.91	64	259811	18.17186	ppb	97
9) Dichlorofluoromethane	6.01	67	754464	19.08539	ppb	99
10) Trichlorofluoromethane	6.53	101	465717	19.85247	ppb	94
11) Acetonitrile	7.65	41	87890	141.55257	ug/l	100
12) Acrolein	7.16	56	38144	134.24936	ppb	98
13) Acetone	7.28	43	36583	22.52802	ppb	# 68
14) Freon-113	7.46	101	275908	21.25897	ppb	94
15) 1,1-DCE	7.68	96	292224	18.05929	ppb	95
16) t-Butanol	7.77	59	10632	138.37146	ppb	91
17) Methyl Acetate	8.19	43	90758	19.14260	ppb	98
18) Iodomethane	8.16	142	180521	16.69886	ppb	# 89
19) Acrylonitrile	8.56	53	34895	19.99122	ppb	97
20) Methylene chloride	8.48	84	296145	19.18795	ppb	91
21) Carbon disulfide	8.56	76	295040	18.76564	ppb	100
22) Methyl t-butyl ether (MtBE)	8.90	73	470382	19.23240	ppb	96
23) Trans-1,2-DCE	9.11	96	343023	20.75257	ppb	92
24) Diisopropyl Ether	9.75	45	1025315	18.96280	ppb	99
25) 1,1-DCA	9.79	63	635624	19.82242	ppb	97
26) Vinyl Acetate	9.42	43	188410	20.16485	ppb	92
27) Ethyl tert Butyl Ether	10.44	59	725972	19.66653	ppb	95
28) MEK (2-Butanone)	10.44	43	124340	19.92151	ppb	98
29) Cis-1,2-DCE	10.82	96	357838	18.54986	ppb	94
30) 2,2-Dichloropropane	10.81	77	438187	19.07664	ppb	93
31) Chloroform	11.09	83	601855	19.51038	ppb	94
32) Bromochloromethane	11.32	128	108166	20.14075	ppb	85
34) 1,1,1-TCA	11.83	97	572722	20.41525	ppb	94
35) Cyclohexane	12.00	56	494926	18.94826	ppb	96
36) 1,1-Dichloropropene	12.10	75	471318	19.60721	ppb	97
37) 2,2,4-Trimethylpentane	12.18	57	798347	20.53839	ppb	93
39) Carbon Tetrachloride	12.30	117	426253	22.06560	ppb	97

(#) = qualifier out of range (m) = manual integration
 1030C21W.D CALLW.M Fri Dec 02 11:21:15 2011

Data File : M:\CHICO\DATA\C111030\1030C21W.D Vial: 1
 Acq On : 31 Oct 11 3:46 Operator: STC
 Sample : Voc Std 10-30-11@20ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40) Tert Amyl Methyl Ether	12.35	73	534720	19.37283	ppb	97
41) 1,2-DCA	12.37	62	312083	19.70915	ppb	98
42) Benzene	12.50	78	1326677	19.20979	ppb	99
43) TCE	13.54	95	376706	19.69496	ppb	91
44) 2-Pentanone	13.20	43	581100	145.23880	ppb	100
45) 1,2-Dichloropropane	13.76	63	307944	19.61725	ppb	95
46) Bromodichloromethane	14.12	83	371635	20.72255	ppb #	93
47) Methyl Cyclohexane	13.82	83	433011	19.37253	ppb	97
48) Dibromomethane	14.16	93	130449	20.77893	ppb	97
49) 2-Chloroethyl vinyl ether	14.58	63	79377	19.89041	ppb	95
50) 1-Bromo-2-chloroethane	14.88	63	259762	19.39365	ppb	89
51) Cis-1,3-Dichloropropene	15.01	75	350200	20.47835	ppb	91
52) Toluene	15.63	91	1320740	19.38915	ppb	97
53) Trans-1,3-Dichloropropene	15.80	75	249890	20.29730	ppb	96
54) 1,1,2-TCA	16.08	83	131106	19.75819	ppb	93
57) 1,2-EDB	17.33	107	153122	21.67400	ppb	94
58) Tetrachloroethene	16.79	164	367302	19.24640	ppb	91
59) 1-Chlorohexane	17.70	91	453290	20.62604	ppb	98
60) 1,1,1,2-Tetrachloroethane	18.16	131	280249	23.45643	ppb	92
61) m&p-Xylene	18.35	106	1173944	41.63932	ppb	100
62) o-Xylene	19.11	106	585791	21.60426	ppb	95
63) Styrene	19.12	104	892450	21.80633	ppb	99
65) 2-Hexanone	16.10	43	69030	20.32340	ppb	93
66) 1,3-Dichloropropane	16.50	76	287745	20.65470	ppb	99
67) Dibromochloromethane	16.97	129	207497	22.81547	ppb	93
68) Chlorobenzene	18.10	112	813528	20.17102	ppb	97
69) Ethylbenzene	18.22	91	1522721	20.27519	ppb	95
70) Bromoform	19.64	173	97001	19.60233	ppb	84
72) MIBK (methyl isobutyl keto)	14.68	43	106674	17.98505	ppb	92
73) Isopropylbenzene	19.74	105	1516275	20.05166	ppb	98
74) 1,1,1,2-Tetrachloroethane	19.89	83	136632	21.58486	ppb	90
75) 1,2,3-Trichloropropane	20.15	110	13641	19.13172	ppb #	42
76) t-1,4-Dichloro-2-Butene	20.22	53	30320	21.12442	ppb #	79
77) Bromobenzene	20.48	156	337635	19.35675	ppb	93
78) n-Propylbenzene	20.44	91	1817556	20.14810	ppb	97
79) 4-Ethyltoluene	20.64	105	1209221	19.37027	ppb	92
80) 2-Chlorotoluene	20.73	91	1199768	20.08139	ppb	99
81) 1,3,5-Trimethylbenzene	20.71	105	1237433	20.14832	ppb	99
82) 4-Chlorotoluene	20.82	91	1006043	19.55523	ppb	96
83) Tert-Butylbenzene	21.36	119	1363292	20.50304	ppb	98
84) 1,2,4-Trimethylbenzene	21.42	105	1240098	19.33311	ppb	98
85) Sec-Butylbenzene	21.76	105	1672276	20.97154	ppb	99
86) p-Isopropyltoluene	21.99	119	1410527	20.65186	ppb	98
87) Benzyl Chloride	22.43	91	179615	19.81078	ppb	96
88) 1,3-DCB	22.13	146	714268	20.02373	ppb	99
89) 1,4-DCB	22.30	146	661023	19.96579	ppb	96
90) Hexachloroethane	23.60	117	220554	18.79960	ppb	91
91) n-Butylbenzene	22.70	91	1175074	19.72516	ppb	100
92) 1,2-DCB	22.93	146	582656	20.53528	ppb	96
93) 1,2-Dibromo-3-chloropropan	24.14	155	19304	17.90735	ppb #	68
94) 1,2,4-Trichlorobenzene	25.59	180	403670	19.63348	ppb	99

(#) = qualifier out of range (m) = manual integration
 1030C21W.D CALLW.M Fri Dec 02 11:21:16 2011

Data File : M:\CHICO\DATA\C111030\1030C21W.D Vial: 1
 Acq On : 31 Oct 11 3:46 Operator: STC
 Sample : Voc Std 10-30-11@20ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) Hexachlorobutadiene	25.84	223	78688	21.06531	ppb	92
96) Naphthalene	25.94	128	505600	19.93070	ppb	99
97) 1,2,3-Trichlorobenzene	26.30	180	309459	19.89820	ppb	98

Quantitation Report

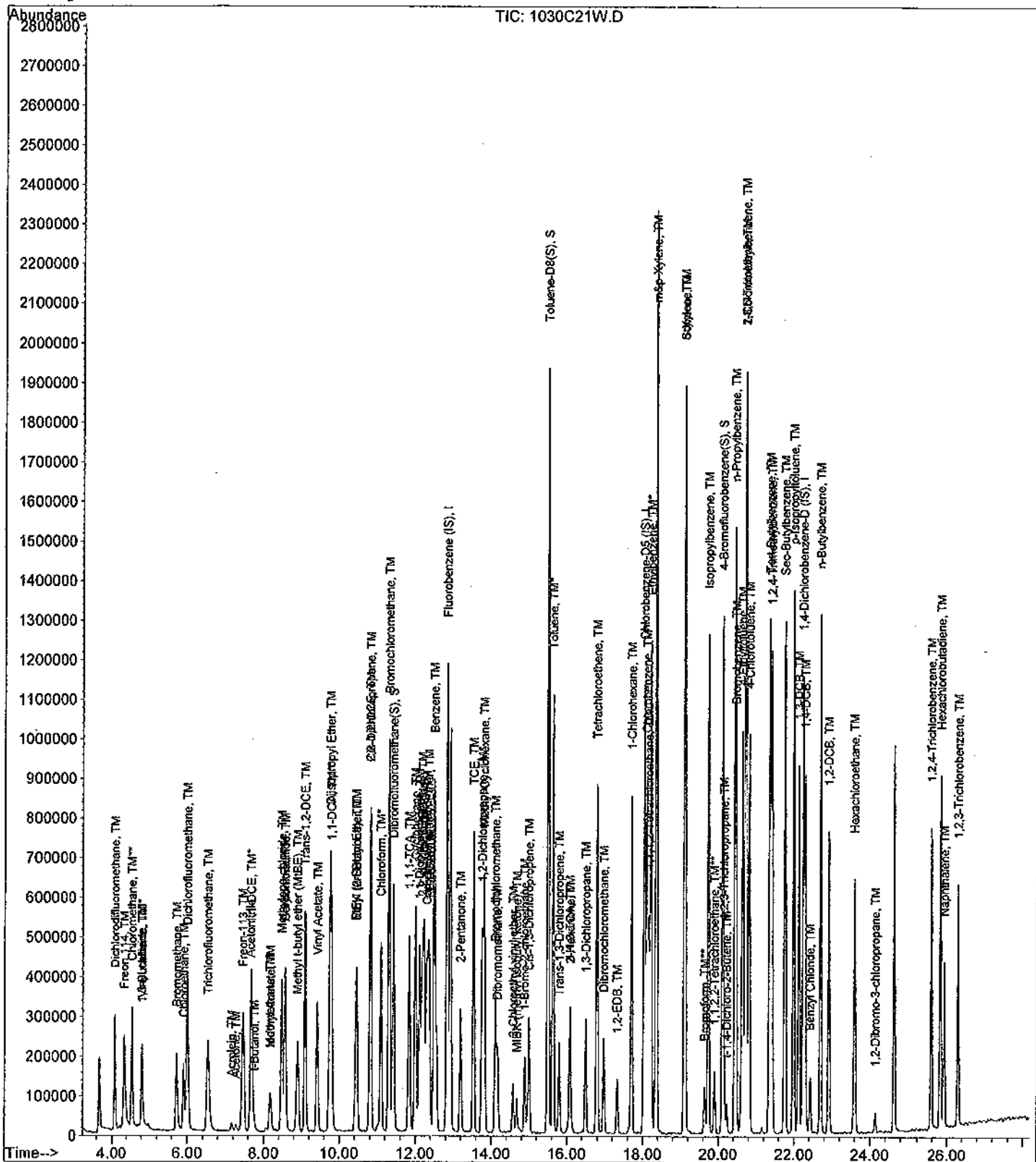
Data File : M:\CHICO\DATA\C111030\1030C21W.D
 Acq On : 31 Oct 11 3:46
 Sample : Voc Std 10-30-11@20ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C22W.D Vial: 1
 Acq On : 31 Oct 11 4:29 Operator: STC
 Sample : Voc Std 10-30-11@40ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	12.84	96	576384	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.03	117	400384	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.24	152	224000	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane (S)	11.43	111	1201490	78.25231	ppb	0.00
Spiked Amount	25.097		Recovery	=	311.795%	
38) 1,2-DCA-D4 (S)	12.23	65	1017043	74.41171	ppb	0.00
Spiked Amount	24.225		Recovery	=	307.167%	
56) Toluene-D8 (S)	15.50	98	4141980	73.52293	ppb	0.00
Spiked Amount	25.808		Recovery	=	284.881%	
64) 4-Bromofluorobenzene (S)	20.11	95	1506838	74.64914	ppb	0.00
Spiked Amount	25.459		Recovery	=	293.207%	
Target Compounds						
2) Dichlorodifluoromethane	4.07	85	884588	41.65551	ppb	Qvalue 100
3) Freon 114	4.33	85	557051	41.88358	ppb	95
4) Chloromethane	4.55	50	992312	37.70822	ppb	99
5) Vinyl chloride	4.81	62	582991	33.12037	ppb	100
6) 1,3-Butadiene	4.80	54	564	11.46497	ppb	93
7) Bromomethane	5.73	94	528649	41.37336	ppb	93
8) Chloroethane	5.91	64	531050	36.52439	ppb	99
9) Dichlorofluoromethane	6.01	67	1474925	36.68918	ppb	98
10) Trichlorofluoromethane	6.53	101	946797	39.68761	ppb	99
11) Acetonitrile	7.66	41	108364	171.62043	ug/l	100
12) Acrolein	7.16	56	48720	168.61606	ppb	96
13) Acetone	7.28	43	68038	41.20035	ppb	# 70
14) Freon-113	7.47	101	558655	43.47676	ppb	95
15) 1,1-DCE	7.68	96	585091	35.55608	ppb	97
16) t-Butanol	7.76	59	14424	184.59628	ppb	98
17) Methyl Acetate	8.19	43	191479	40.45406	ppb	95
18) Iodomethane	8.17	142	457316	35.89956	ppb	95
19) Acrylonitrile	8.56	53	70209	39.92472	ppb	91
20) Methylene chloride	8.48	84	561985	35.80590	ppb	98
21) Carbon disulfide	8.56	76	582016	36.40182	ppb	99
22) Methyl t-butyl ether (MtBE)	8.89	73	959832	38.59078	ppb	96
23) Trans-1,2-DCE	9.10	96	690130	41.05681	ppb	94
24) Diisopropyl Ether	9.75	45	2070362	37.65279	ppb	97
25) 1,1-DCA	9.79	63	1270640	38.96588	ppb	96
26) Vinyl Acetate	9.42	43	392586	42.94098	ppb	95
27) Ethyl tert Butyl Ether	10.45	59	1446892	38.54337	ppb	98
28) MEK (2-Butanone)	10.44	43	249429	39.96063	ppb	# 93
29) Cis-1,2-DCE	10.82	96	701038	35.73563	ppb	95
30) 2,2-Dichloropropane	10.81	77	853458	36.53678	ppb	99
31) Chloroform	11.10	83	1207454	38.49020	ppb	99
32) Bromochloromethane	11.32	128	209048	38.27688	ppb	92
34) 1,1,1-TCA	11.83	97	1115691	39.10753	ppb	98
35) Cyclohexane	12.00	56	1027386	38.67839	ppb	97
36) 1,1-Dichloropropene	12.10	75	915628	37.45644	ppb	98
37) 2,2,4-Trimethylpentane	12.18	57	1588067	41.27686	ppb	96
39) Carbon Tetrachloride	12.30	117	845279	43.02829	ppb	95

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

1030C22W.D CALLW.M Fri Dec 02 11:21:22 2011

Data File : M:\CHICO\DATA\C111030\1030C22W.D
 Acq On : 31 Oct 11 4:29
 Sample : Voc Std 10-30-11@40ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40) Tert Amyl Methyl Ether	12.34	73	1064298	37.91715	ppb	95
41) 1,2-DCA	12.37	62	609966	37.87992	ppb	96
42) Benzene	12.50	78	2667822	37.98569	ppb	98
43) TCE	13.53	95	750591	38.58882	ppb	94
44) 2-Pentanone	13.20	43	723061	177.71021	ppb	99
45) 1,2-Dichloropropane	13.77	63	624547	39.12345	ppb	95
46) Bromodichloromethane	14.12	83	773755	42.42635	ppb	95
47) Methyl Cyclohexane	13.82	83	868699	38.21751	ppb	98
48) Dibromomethane	14.17	93	250020	39.16182	ppb	86
49) 2-Chloroethyl vinyl ether	14.57	63	173802	42.82620	ppb	95
50) 1-Bromo-2-chloroethane	14.89	63	541199	39.73256	ppb	83
51) Cis-1,3-Dichloropropene	15.00	75	712500	40.97032	ppb	95
52) Toluene	15.63	91	2650413	38.26138	ppb	99
53) Trans-1,3-Dichloropropene	15.80	75	518508	41.41431	ppb	91
54) 1,1,2-TCA	16.08	83	269238	39.89943	ppb	93
57) 1,2-EDB	17.33	107	320516	42.06127	ppb	96
58) Tetrachloroethene	16.79	164	705793	34.28742	ppb	95
59) 1-Chlorohexane	17.70	91	907243	38.27319	ppb	95
60) 1,1,1,2-Tetrachloroethane	18.16	131	576678	44.74892	ppb	93
61) m&p-Xylene	18.35	106	2337444	76.86502	ppb	99
62) o-Xylene	19.11	106	1156368	39.53885	ppb	94
63) Styrene	19.13	104	1785628	40.45023	ppb	97
65) 2-Hexanone	16.10	43	145250	39.64659	ppb	96
66) 1,3-Dichloropropane	16.49	76	597192	39.74260	ppb	95
67) Dibromochloromethane	16.97	129	435261	44.37095	ppb	90
68) Chlorobenzene	18.10	112	1658874	38.13292	ppb	97
69) Ethylbenzene	18.22	91	3057452	37.74292	ppb	98
70) Bromoform	19.64	173	213787	38.87093	ppb	# 77
72) MIBK (methyl isobutyl keto	14.67	43	228387	35.86526	ppb	86
73) Isopropylbenzene	19.74	105	2989202	36.81944	ppb	100
74) 1,1,2,2-Tetrachloroethane	19.90	83	276570	40.69597	ppb	85
75) 1,2,3-Trichloropropane	20.15	110	27712	36.12043	ppb	# 64
76) t-1,4-Dichloro-2-Butene	20.23	53	63970	41.51275	ppb	# 73
77) Bromobenzene	20.47	156	676448	36.12176	ppb	94
78) n-Propylbenzene	20.44	91	3526664	36.41330	ppb	96
79) 4-Ethyltoluene	20.64	105	2418588	36.08622	ppb	96
80) 2-Chlorotoluene	20.74	91	2324947	36.24591	ppb	98
81) 1,3,5-Trimethylbenzene	20.71	105	2435760	36.94036	ppb	97
82) 4-Chlorotoluene	20.82	91	1999529	36.20126	ppb	95
83) Tert-Butylbenzene	21.36	119	2659556	37.25529	ppb	98
84) 1,2,4-Trimethylbenzene	21.42	105	2416954	35.09648	ppb	97
85) Sec-Butylbenzene	21.76	105	3268087	38.17382	ppb	99
86) p-Isopropyltoluene	21.99	119	2796609	38.13811	ppb	99
87) Benzyl Chloride	22.42	91	391533	40.22322	ppb	98
88) 1,3-DCB	22.12	146	1411201	36.84871	ppb	99
89) 1,4-DCB	22.30	146	1322903	37.21752	ppb	96
90) Hexachloroethane	23.60	117	488322	36.68408	ppb	93
91) n-Butylbenzene	22.70	91	2299832	35.95845	ppb	98
92) 1,2-DCB	22.93	146	1152377	37.82968	ppb	95
93) 1,2-Dibromo-3-chloropropan	24.14	155	45893	38.08788	ppb	96
94) 1,2,4-Trichlorobenzene	25.59	180	808556	36.62946	ppb	98

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

1030C22W.D CALLW.M Fri Dec 02 11:21:23 2011

Data File : M:\CHICO\DATA\C111030\1030C22W.D Vial: 1
Acq On : 31 Oct 11 4:29 Operator: STC
Sample : Voc Std 10-30-11@40ug/L Inst : Chico
Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Dec 02 11:18:49 2011
Response via : Initial Calibration
DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
95) Hexachlorobutadiene	25.84	223	149142	37.18851 ppb	98
96) Naphthalene	25.94	128	1030307	37.82960 ppb	97
97) 1,2,3-Trichlorobenzene	26.29	180	633099	37.91681 ppb	96

Quantitation Report

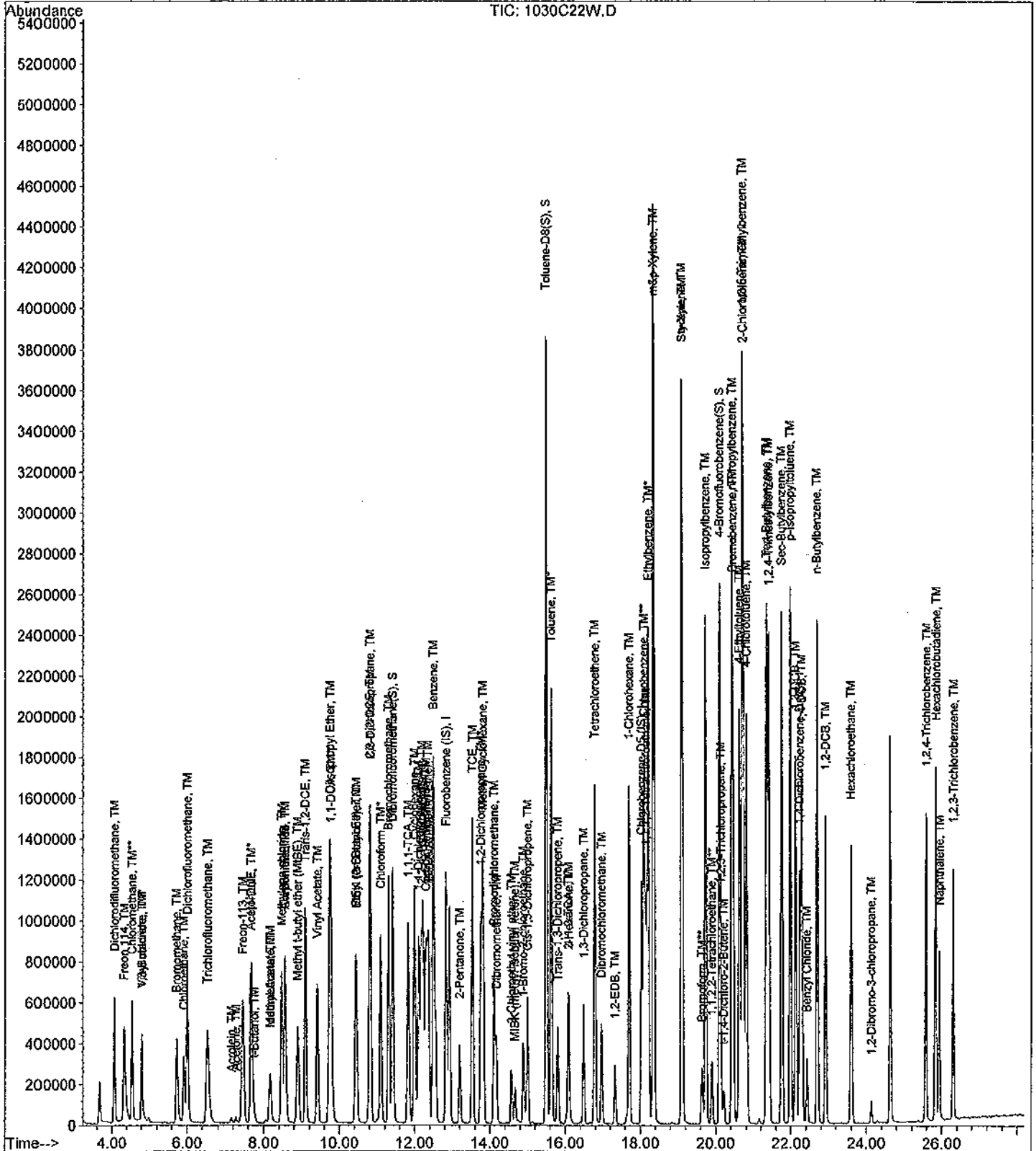
Data File : M:\CHICO\DATA\C111030\1030C22W.D
 Acq On : 31 Oct 11 4:29
 Sample : Voc Std 10-30-11@40ug/L
 Misc : Water 10mL/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C23W.D Vial: 1
 Acq On : 31 Oct 11 5:12 Operator: STC
 Sample : Voc Std 10-30-11@100ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	12.83	96	629184	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.04	117	438080	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.25	152	225856	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.42	111	1562107	93.20132	ppb	0.00
Spiked Amount	25.097		Recovery	=	371.359%	
38) 1,2-DCA-D4 (S)	12.22	65	1315432	88.16671	ppb	0.00
Spiked Amount	24.225		Recovery	=	363.946%	
56) Toluene-D8 (S)	15.50	98	5498133	89.19764	ppb	0.00
Spiked Amount	25.808		Recovery	=	345.617%	
64) 4-Bromofluorobenzene (S)	20.11	95	1999086	90.51343	ppb	0.00
Spiked Amount	25.459		Recovery	=	355.518%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	4.07	85	2034576	87.76868	ppb	100
3) Freon 114	4.33	85	1349868	92.97677	ppb	99
4) Chloromethane	4.55	50	2507323	87.28354	ppb	98
5) Vinyl chloride	4.80	62	1338572	69.66414	ppb	97
6) 1,3-Butadiene	4.78	54	294	5.47489	ppb	# 41
7) Bromomethane	5.72	94	1399435	100.33221	ppb	96
8) Chloroethane	5.92	64	1334347	84.07184	ppb	99
9) Dichlorofluoromethane	6.00	67	3757858	85.63331	ppb	99
10) Trichlorofluoromethane	6.53	101	2271251	87.21626	ppb	100
11) Acetonitrile	7.65	41	142197	206.30447	ug/l	100
12) Acrolein	7.15	56	57928	183.65994	ppb	89
13) Acetone	7.27	43	177387	98.40233	ppb	# 80
14) Freon-113	7.46	101	1359710	98.36336	ppb	98
15) 1,1-DCE	7.69	96	1502451	83.64213	ppb	95
16) t-Butanol	7.69	59	21608	253.32966	ppb	# 70
17) Methyl Acetate	8.19	43	511503	99.99402	ppb	97
18) Iodomethane	8.16	142	1532807	102.31499	ppb	90
19) Acrylonitrile	8.57	53	190766	99.94302	ppb	88
20) Methylene chloride	8.47	84	1482941	86.55417	ppb	98
21) Carbon disulfide	8.56	76	1504256	86.18747	ppb	99
22) Methyl t-butyl ether (MtBE)	8.90	73	2423605	89.26566	ppb	93
23) Trans-1,2-DCE	9.10	96	1783146	97.17967	ppb	95
24) Diisopropyl Ether	9.75	45	5216937	86.91619	ppb	95
25) 1,1-DCA	9.80	63	3188094	89.56273	ppb	96
26) Vinyl Acetate	9.42	43	966738	98.81188	ppb	94
27) Ethyl tert Butyl Ether	10.44	59	3675155	89.68576	ppb	98
28) MEK (2-Butanone)	10.42	43	621214	92.04576	ppb	# 87
29) Cis-1,2-DCE	10.82	96	1784148	83.31536	ppb	92
30) 2,2-Dichloropropane	10.81	77	2060873	80.82274	ppb	96
31) Chloroform	11.09	83	3040045	88.77564	ppb	96
32) Bromochloromethane	11.32	128	540554	90.67004	ppb	82
34) 1,1,1-TCA	11.84	97	2777762	89.19608	ppb	98
35) Cyclohexane	12.00	56	2517542	86.82519	ppb	98
36) 1,1-Dichloropropene	12.11	75	2351054	88.10577	ppb	97
37) 2,2,4-Trimethylpentane	12.18	57	4108345	99.40223	ppb	96
39) Carbon Tetrachloride	12.30	117	2194045	102.31369	ppb	94

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

1030C23W.D CALLW.M Fri Dec 02 11:21:28 2011

Data File : M:\CHICO\DATA\C111030\1030C23W.D Vial: 1
 Acq On : 31 Oct 11 5:12 Operator: STC
 Sample : Voc Std 10-30-11@100ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40) Tert Amyl Methyl Ether	12.35	73	2816735	91.92902	ppb	99
41) 1,2-DCA	12.38	62	1561150	88.81419	ppb	98
42) Benzene	12.49	78	6991851	91.19889	ppb	98
43) TCE	13.54	95	1880975	88.58811	ppb	90
44) 2-Pentanone	13.20	43	881325	198.43021	ppb	99
45) 1,2-Dichloropropane	13.76	63	1582643	90.82163	ppb	96
46) Bromodichloromethane	14.11	83	1954559	98.17824	ppb	# 91
47) Methyl Cyclohexane	13.82	83	2215169	89.27589	ppb	99
48) Dibromomethane	14.17	93	660037	94.70886	ppb	92
49) 2-Chloroethyl vinyl ether	14.57	63	484281	109.31668	ppb	95
50) 1-Bromo-2-chloroethane	14.88	63	1381119	92.88701	ppb	92
51) Cis-1,3-Dichloropropene	15.00	75	1816087	95.66550	ppb	93
52) Toluene	15.64	91	6789315	89.78572	ppb	99
53) Trans-1,3-Dichloropropene	15.80	75	1379809	100.95973	ppb	94
54) 1,1,2-TCA	16.08	83	670730	91.05678	ppb	90
57) 1,2-EDB	17.32	107	832657	99.86703	ppb	98
58) Tetrachloroethene	16.79	164	1730703	76.84281	ppb	95
59) 1-Chlorohexane	17.71	91	2353794	90.75337	ppb	91
60) 1,1,1,2-Tetrachloroethane	18.16	131	1508942	107.01509	ppb	94
61) m&p-Xylene	18.36	106	6180125	185.74112	ppb	97
62) o-Xylene	19.10	106	3002956	93.84264	ppb	92
63) Styrene	19.12	104	4577224	94.76663	ppb	100
65) 2-Hexanone	16.10	43	375289	93.62219	ppb	94
66) 1,3-Dichloropropane	16.49	76	1470502	89.43988	ppb	98
67) Dibromochloromethane	16.97	129	1191759	111.03520	ppb	92
68) Chlorobenzene	18.11	112	4271113	89.73276	ppb	97
69) Ethylbenzene	18.22	91	8013287	90.40861	ppb	94
70) Bromoform	19.64	173	616423	100.58038	ppb	# 81
72) MIBK (methyl isobutyl keto	14.67	43	581084	90.50195	ppb	93
73) Isopropylbenzene	19.74	105	7614687	93.02299	ppb	99
74) 1,1,2,2-Tetrachloroethane	19.90	83	720253	105.11090	ppb	88
75) 1,2,3-Trichloropropane	20.16	110	78648	101.50443	ppb	# 68
76) t-1,4-Dichloro-2-Butene	20.22	53	179966	115.82759	ppb	# 75
77) Bromobenzene	20.48	156	1766849	93.57294	ppb	97
78) n-Propylbenzene	20.45	91	9038917	92.56114	ppb	95
79) 4-Ethyltoluene	20.64	105	6293560	93.13058	ppb	93
80) 2-Chlorotoluene	20.74	91	5791730	89.55104	ppb	98
81) 1,3,5-Trimethylbenzene	20.72	105	6243237	93.90589	ppb	96
82) 4-Chlorotoluene	20.81	91	5272321	94.67040	ppb	97
83) Tert-Butylbenzene	21.36	119	6787695	94.30127	ppb	99
84) 1,2,4-Trimethylbenzene	21.41	105	6234859	89.79211	ppb	97
85) Sec-Butylbenzene	21.76	105	8294079	96.08521	ppb	99
86) p-Isopropyltoluene	21.99	119	7113742	96.21480	ppb	98
87) Benzyl Chloride	22.43	91	1035237	105.47867	ppb	97
88) 1,3-DCB	22.13	146	3600903	93.25266	ppb	96
89) 1,4-DCB	22.29	146	3434577	95.83166	ppb	96
90) Hexachloroethane	23.60	117	1413252	101.62319	ppb	97
91) n-Butylbenzene	22.70	91	5960168	92.42293	ppb	99
92) 1,2-DCB	22.92	146	2973338	96.80520	ppb	95
93) 1,2-Dibromo-3-chloropropan	24.14	155	125399	101.01251	ppb	95
94) 1,2,4-Trichlorobenzene	25.58	180	2057289	92.43409	ppb	98

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

1030C23W.D CALLW.M Fri Dec 02 11:21:29 2011

Data File : M:\CHICO\DATA\C111030\1030C23W.D Vial: 1
 Acq On : 31 Oct 11 5:12 Operator: STC
 Sample : Voc Std 10-30-11@100ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Dec 2 11:19 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:18:49 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
95) Hexachlorobutadiene	25.83	223	370844	91.70996	ppb	98
96) Naphthalene	25.93	128	2644717	96.30764	ppb	98
97) 1,2,3-Trichlorobenzene	26.30	180	1614041	95.87185	ppb	100

Quantitation Report

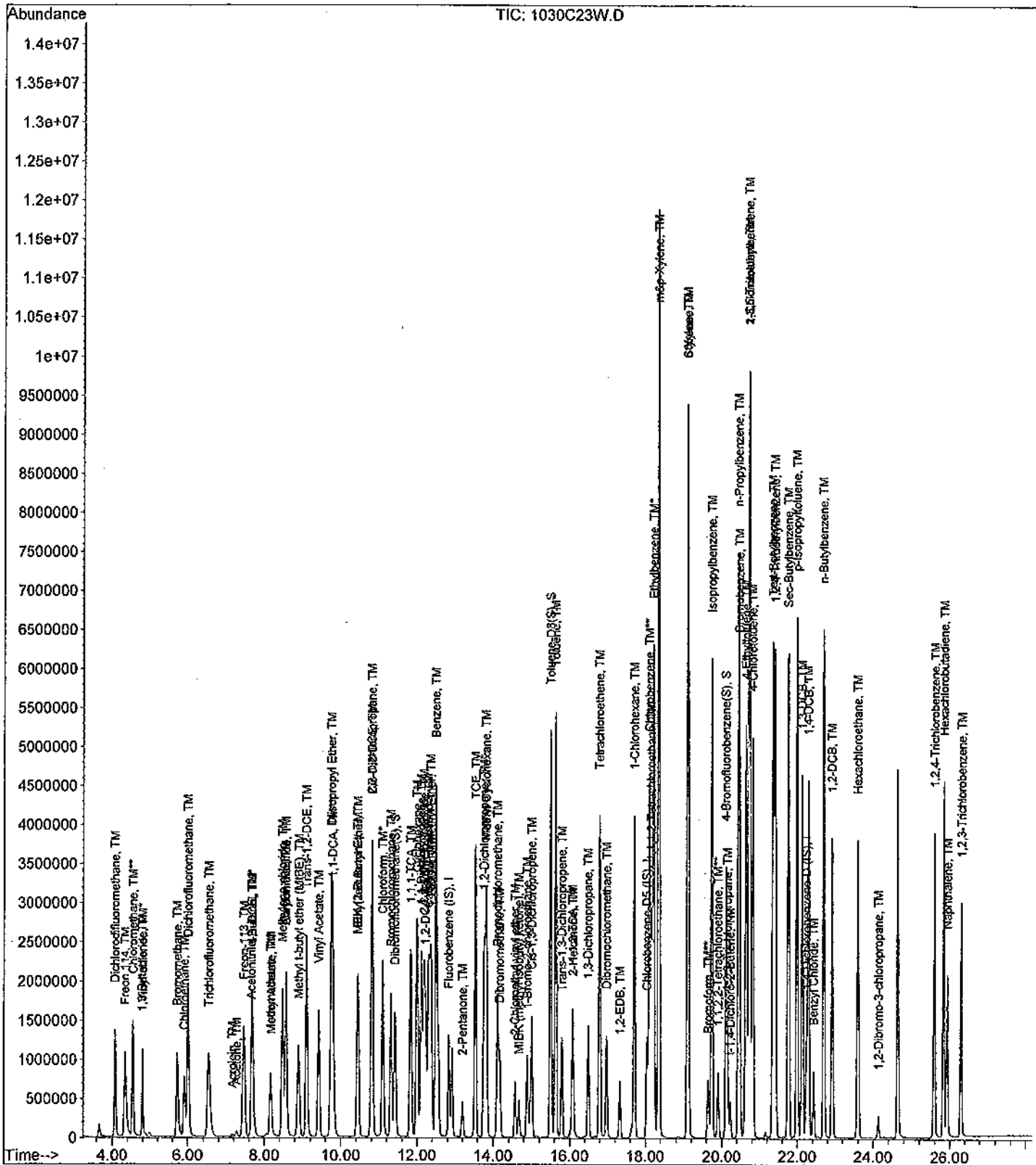
Data File : M:\CHICO\DATA\C111030\1030C23W.D
Acq On : 31 Oct 11 5:12
Sample : Voc Std 10-30-11@100ug/L
Misc : Water 10mL/ IS:10-30-11

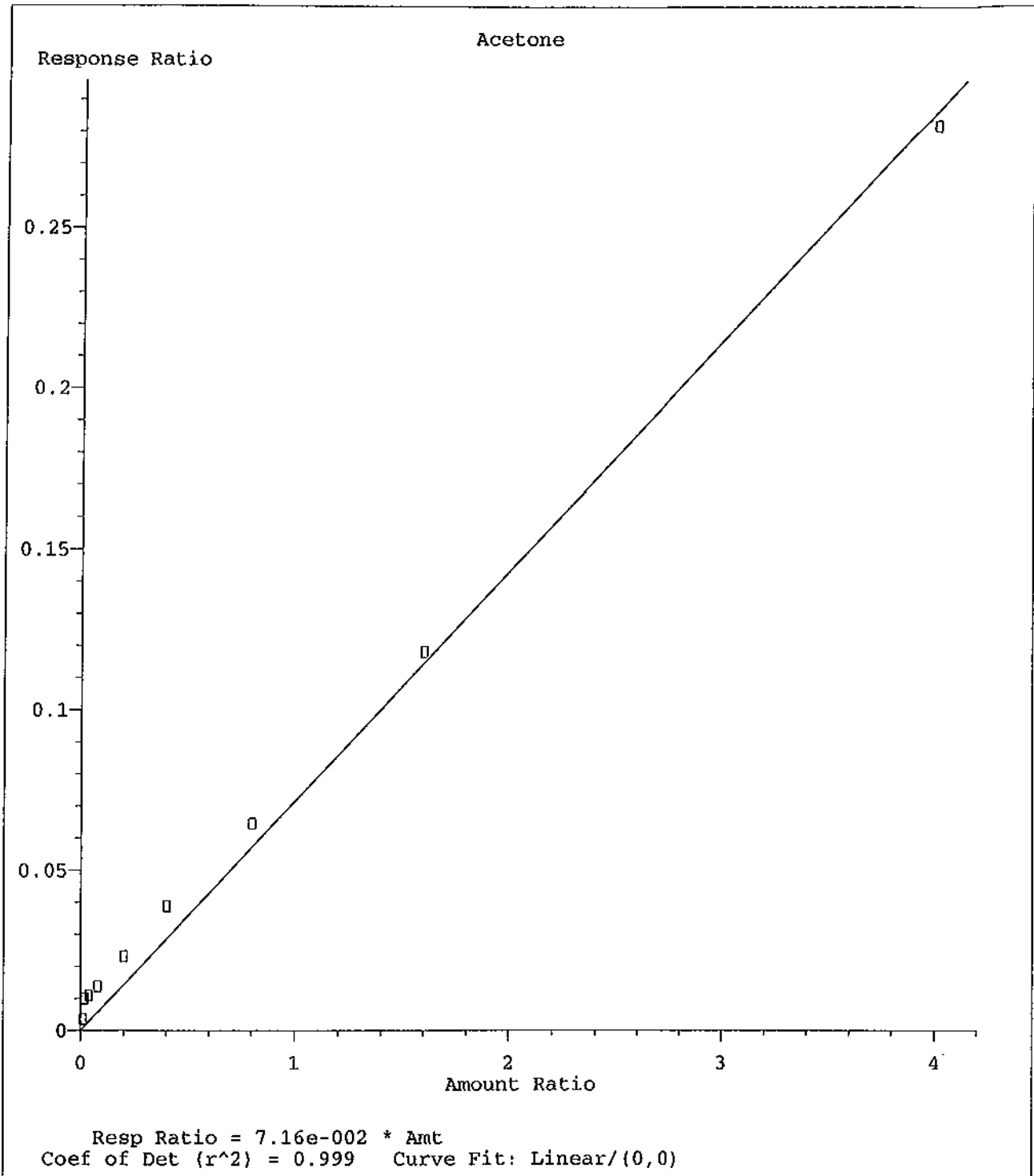
Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Dec 2 11:19 2011

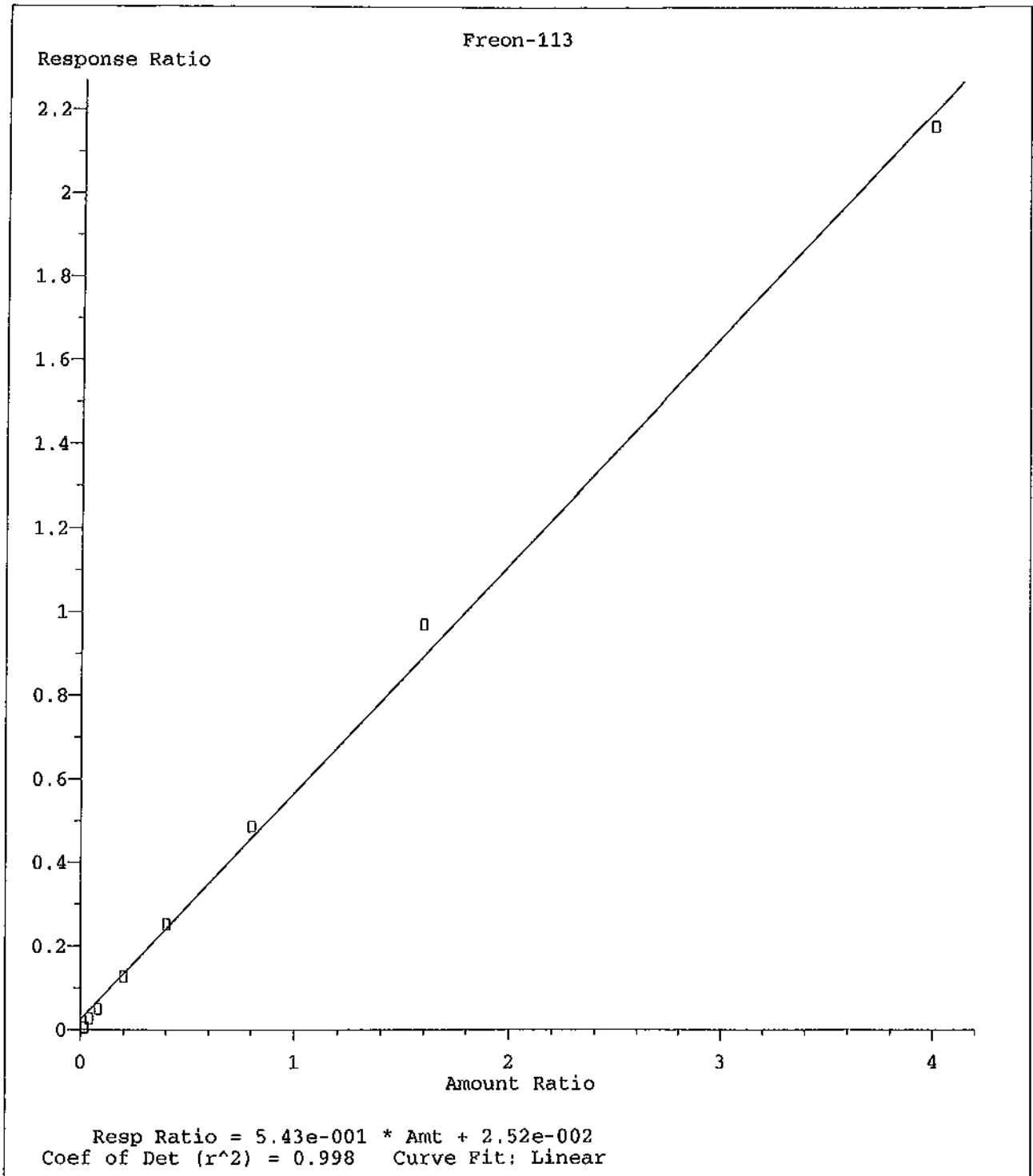
Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Dec 02 11:18:49 2011
Response via : Initial Calibration

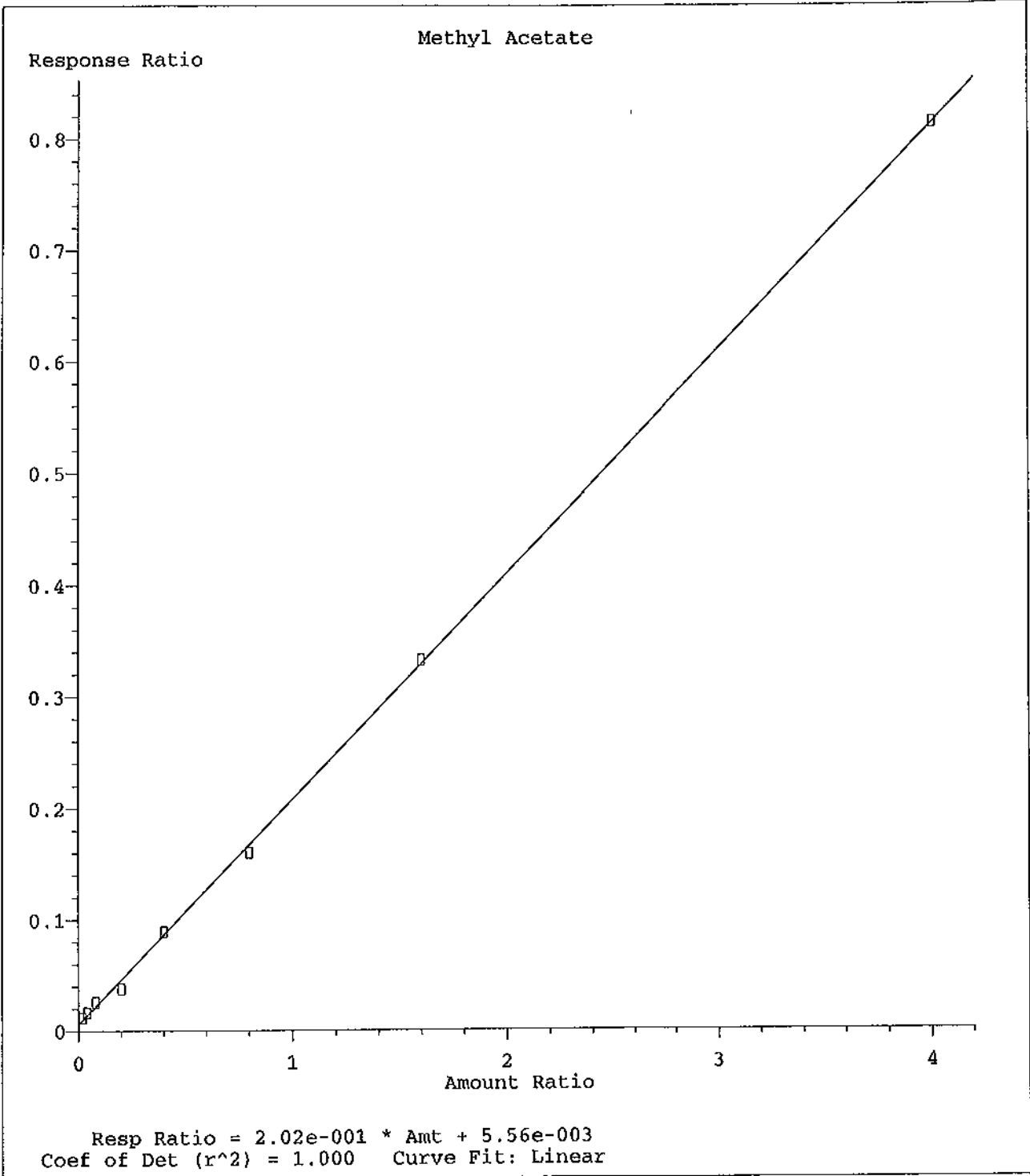




Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011



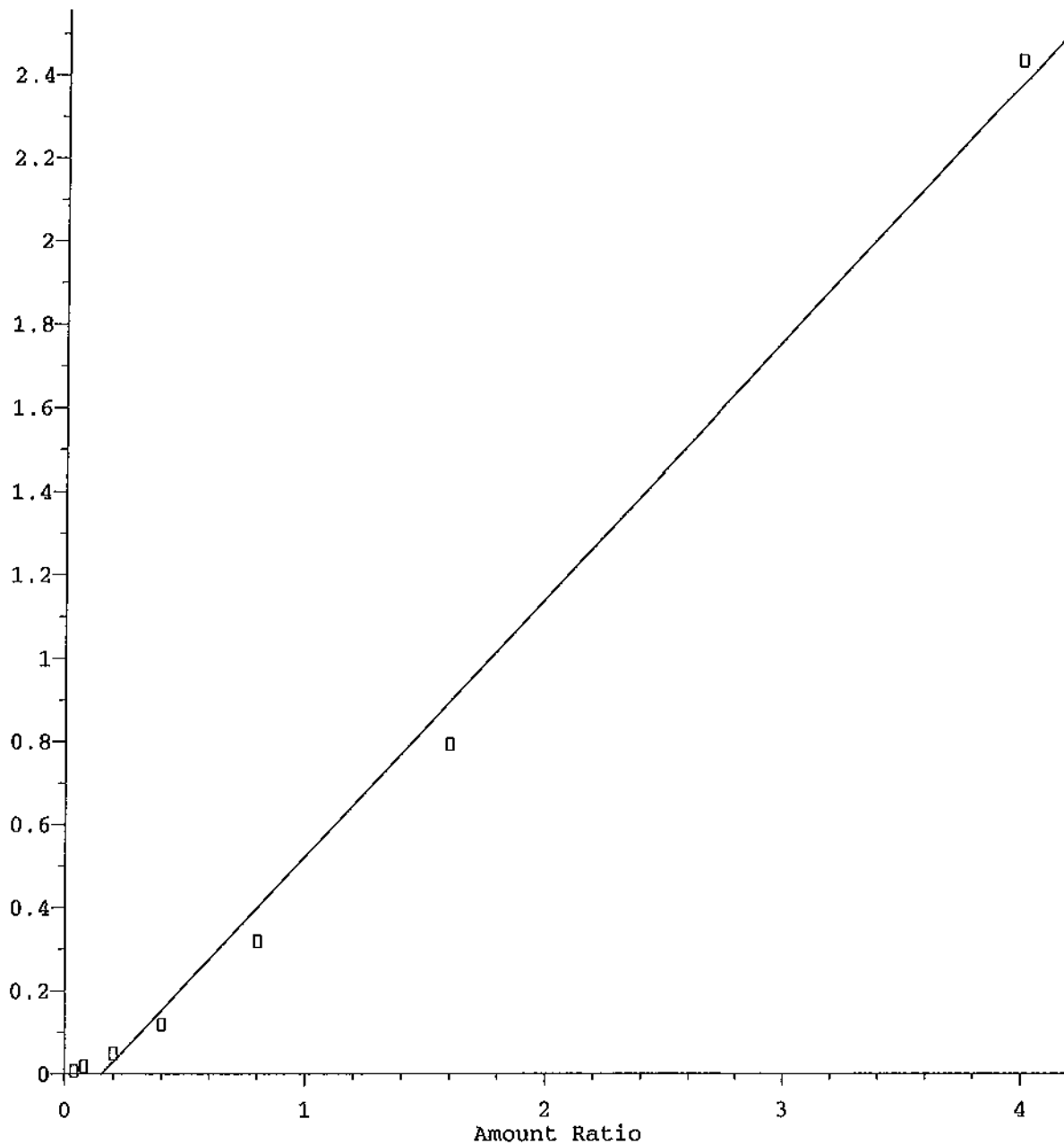
Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011



Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011

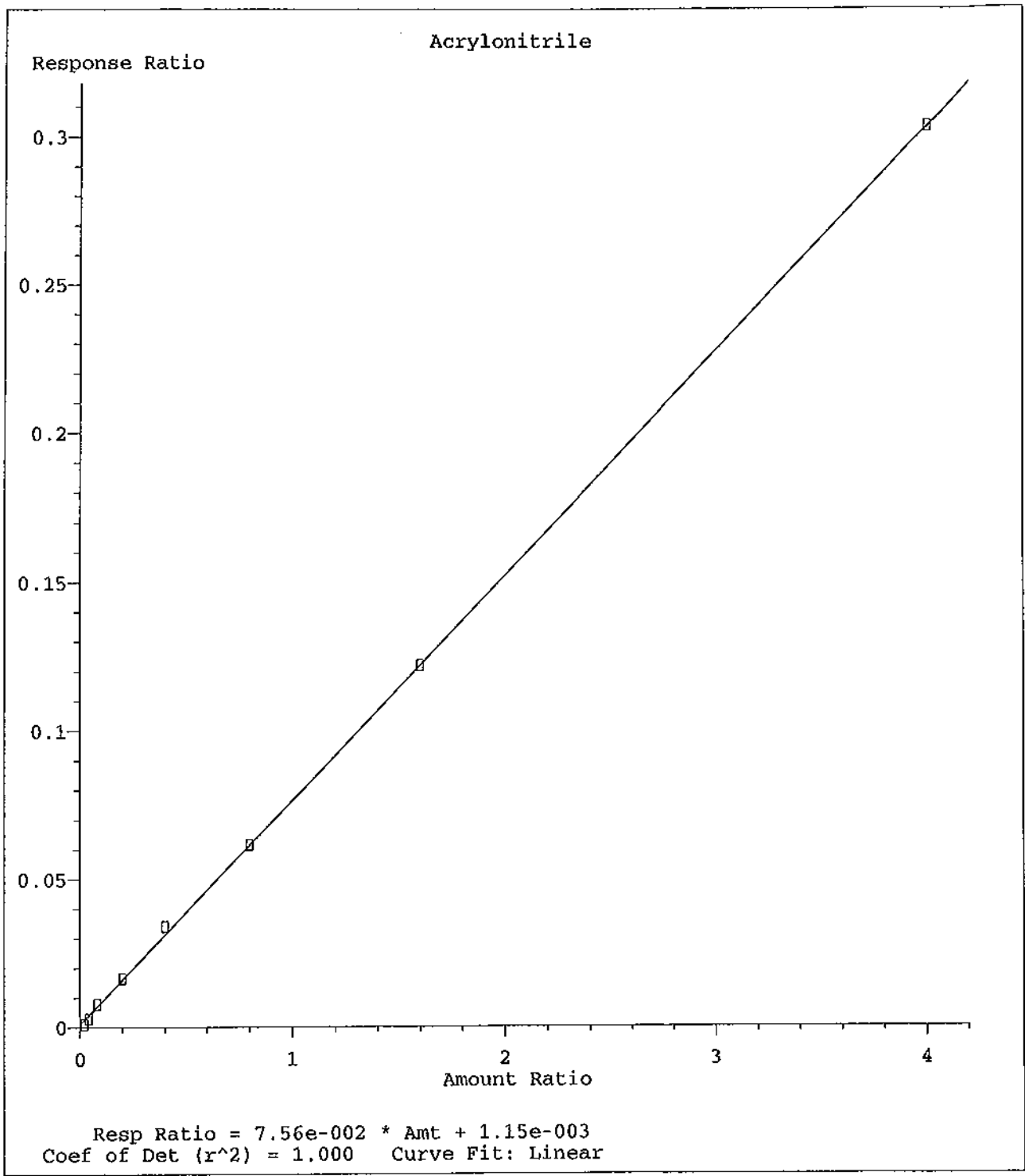
Iodomethane

Response Ratio

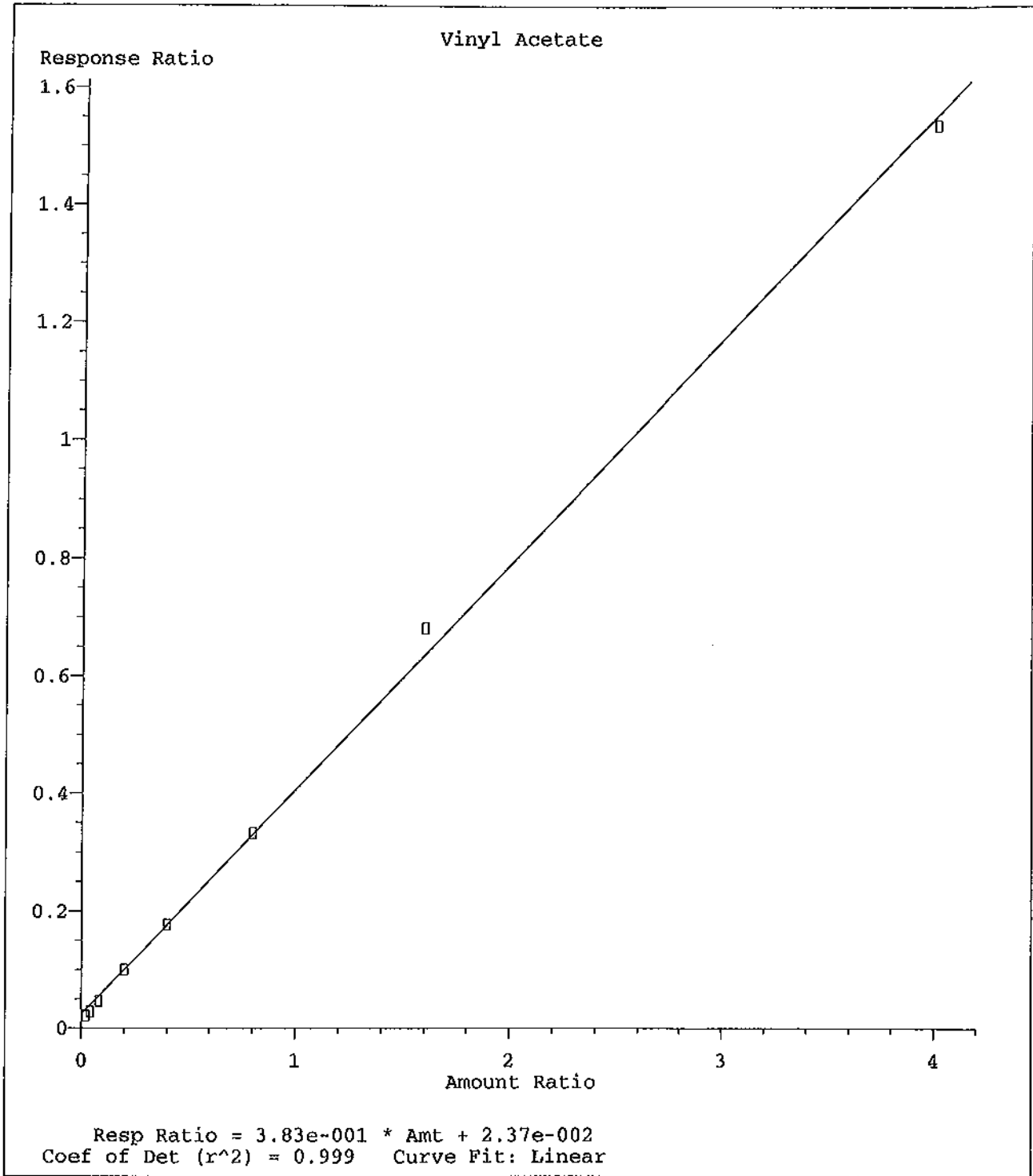


Resp Ratio = 6.18e-001 * Amt - 9.45e-002
Coef of Det (r^2) = 0.993 Curve Fit: Linear

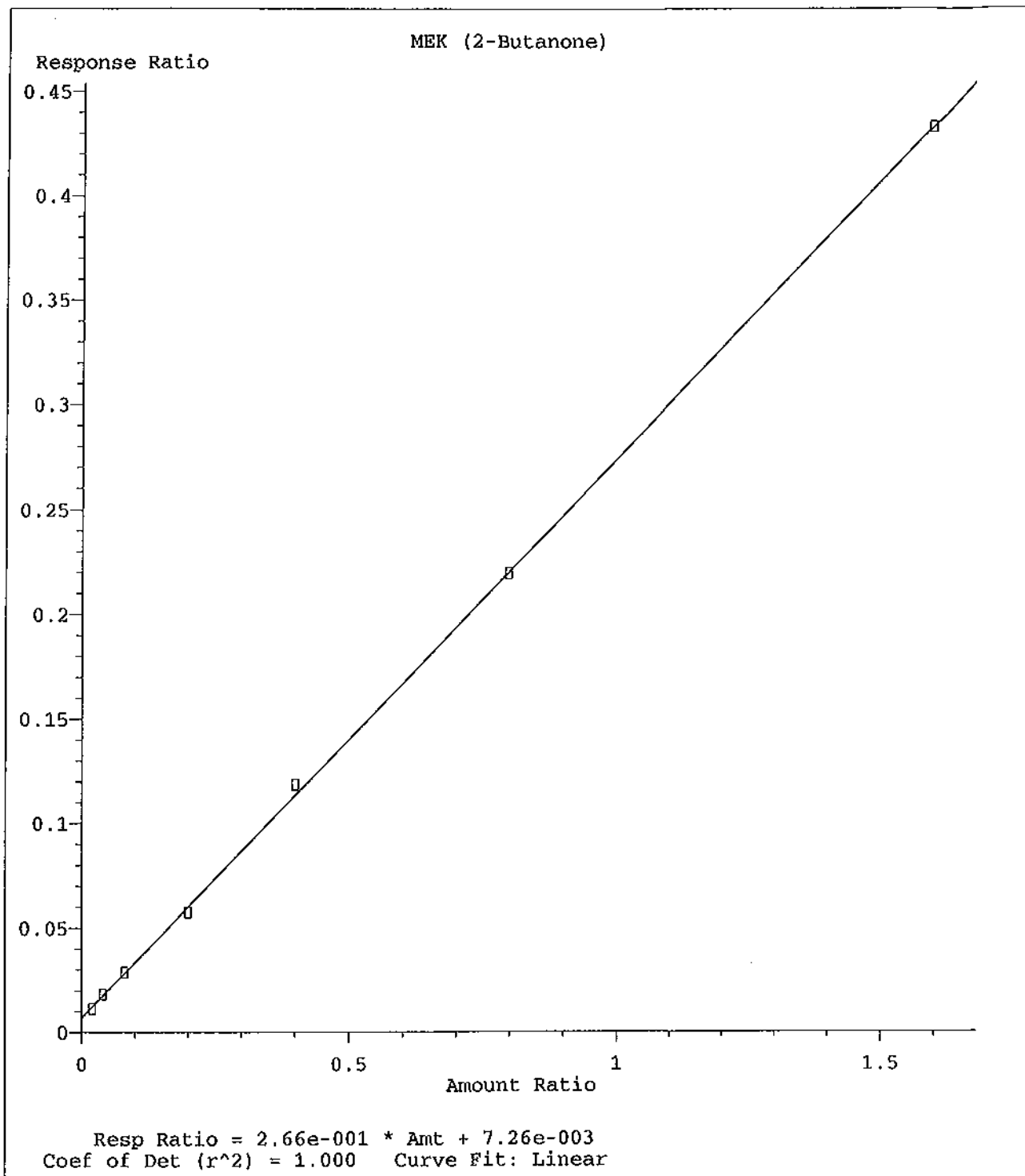
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Calibration Table Last Updated: Fri Dec 02 11:32:50 2011



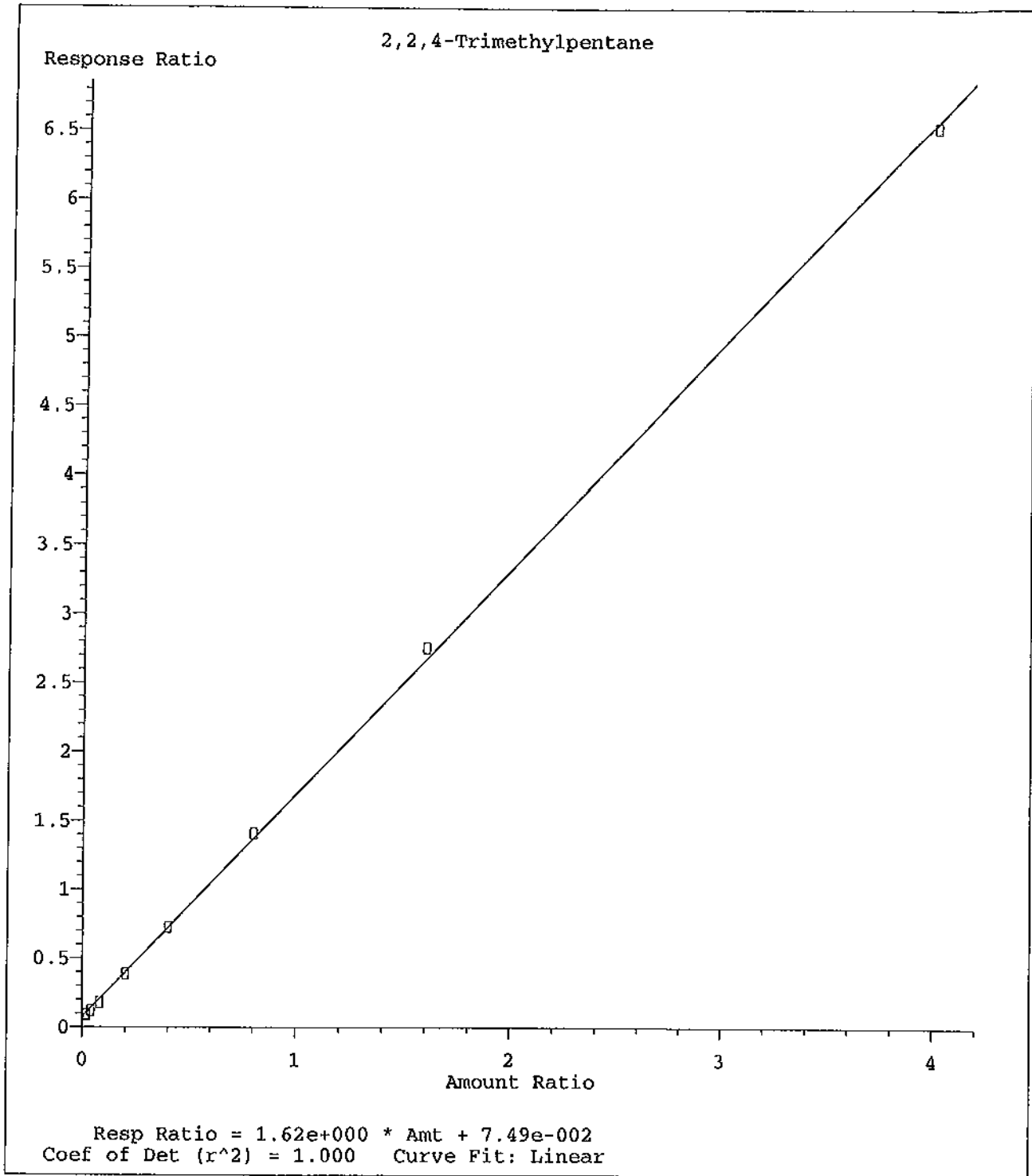
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Calibration Table Last Updated: Fri Dec 02 11:32:50 2011



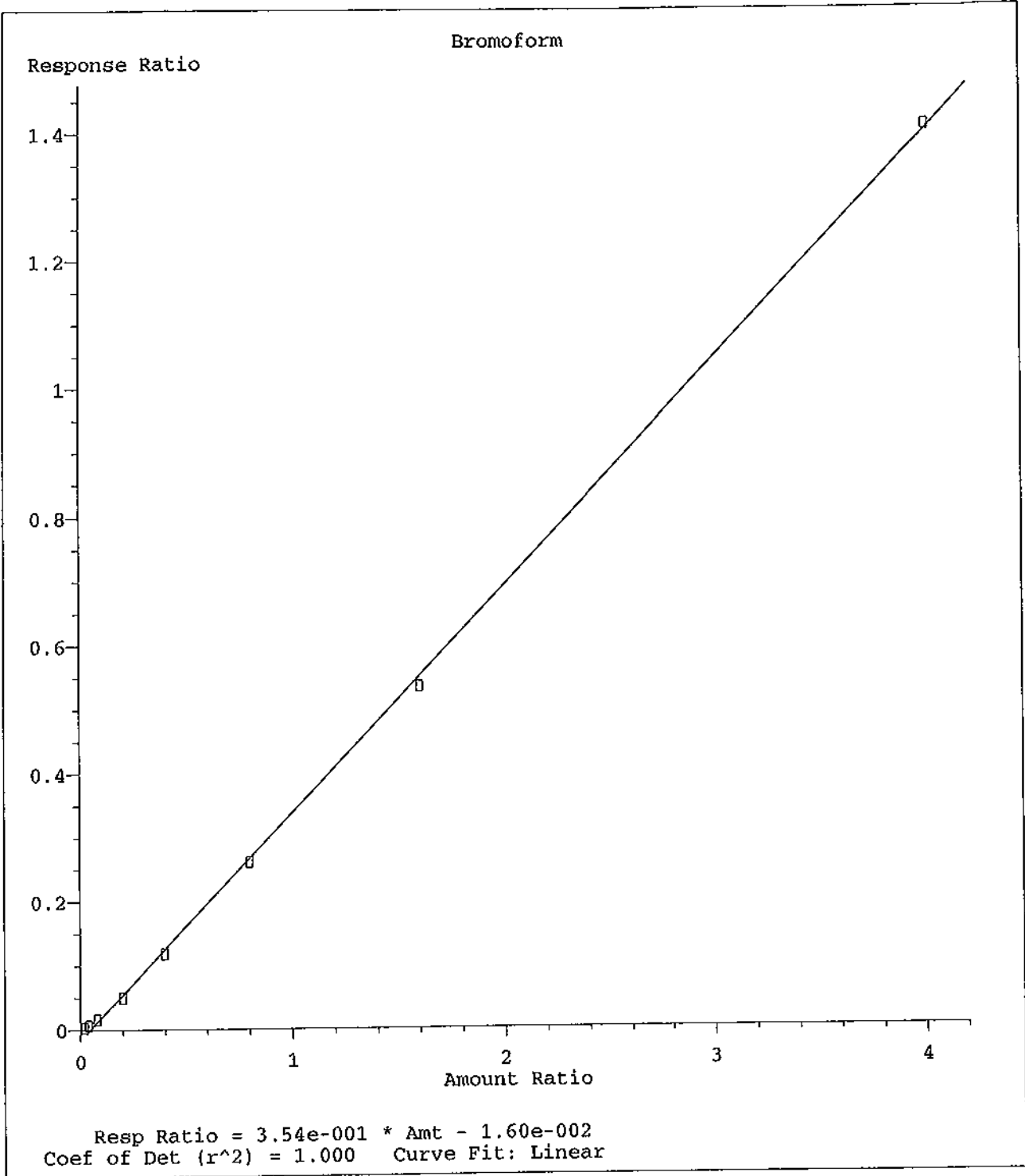
Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011



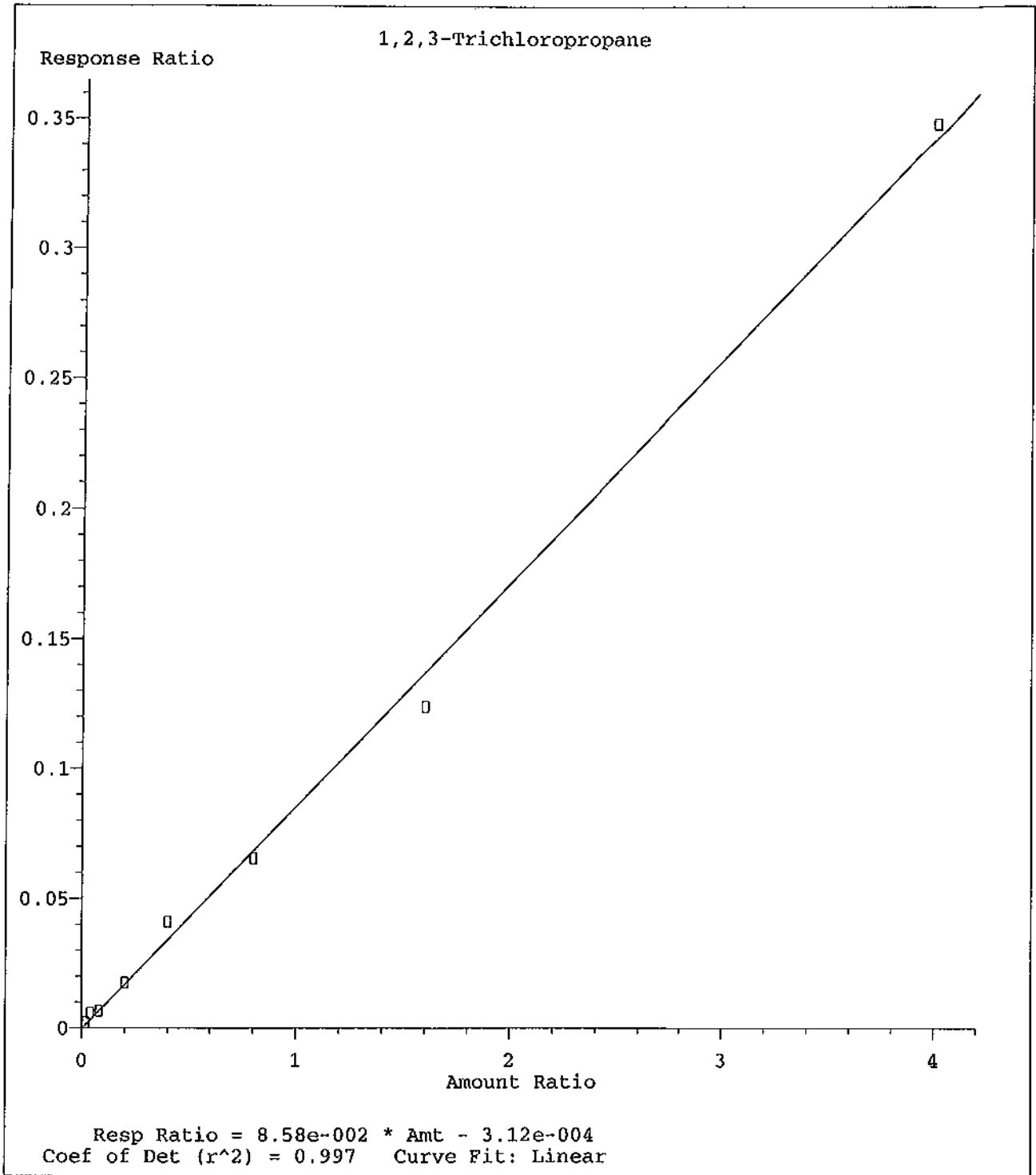
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Calibration Table Last Updated: Fri Dec 02 11:32:50 2011



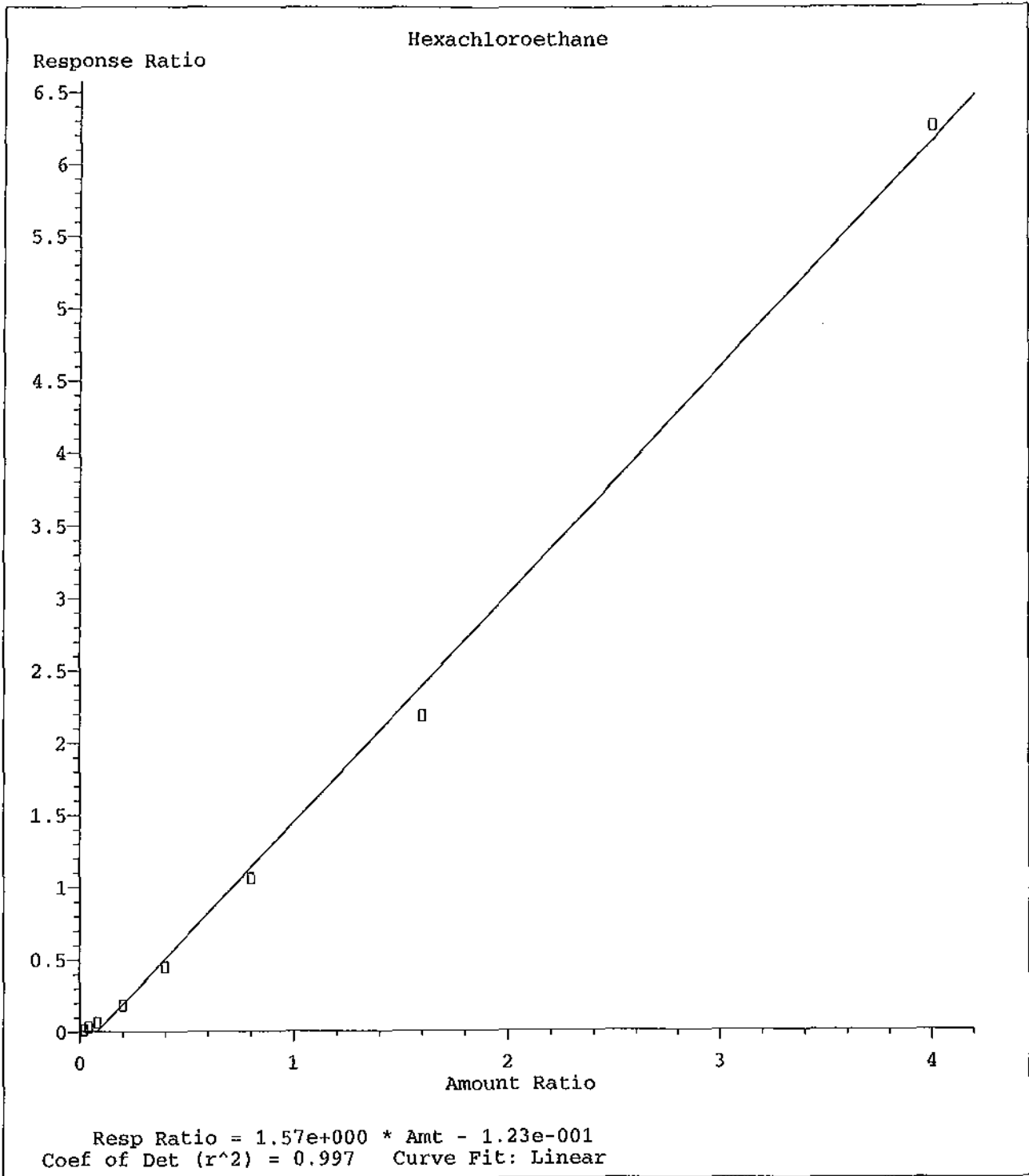
Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011



Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011



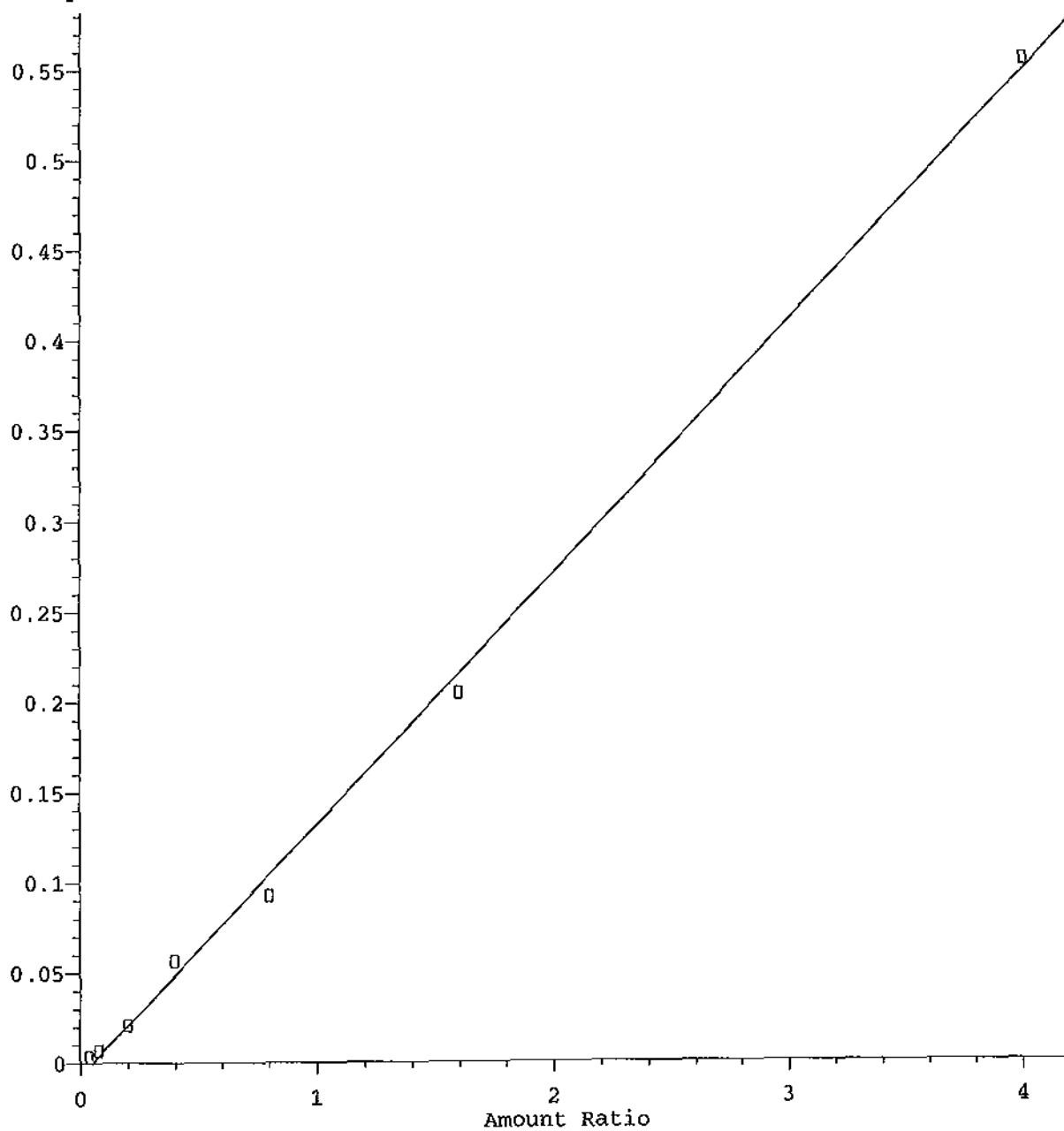
Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011



Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011

1,2-Dibromo-3-chloropropane

Response Ratio



Resp Ratio = 1.39e-001 * Amt - 7.18e-003
Coef of Det (r^2) = 0.998 Curve Fit: Linear

Method Name: M:\CHICO\DATA\C111030\CALLW.M
Calibration Table Last Updated: Fri Dec 02 11:32:50 2011

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 10/31/11
Instrument: Chico
Initial Cal. Date: 10/30/11
Data File: 1030C28W.D

	Compound	MEAN	CCRF	%D	%Drift	
1	I Fluorobenzene (IS)	ISTD			I	
2	TM Dichlorodifluoromethane	0.9211	0.9249	0.42	TM	
3	TM Freon 114	0.5769	0.6094	5.6	TM	
4	TM** Chloromethane	1.141	1.076	5.8	TM**	
5	TM* Vinyl chloride	0.7635	0.7773	1.8	TM*	
6	TML 1,3-Butadiene	0.0000	0.0015	0.00	TML	
7	TM Bromomethane	0.5542	0.4961	10	TM	
8	TM Chloroethane	0.6306	0.5609	11	TM	
9	TM Dichlorofluoromethane	1.744	1.607	7.8	TM	
10	TM Trichlorofluoromethane	1.035	1.006	2.8	TM	
11	Acetonitrile	0.0274	0.0263	4.1		
12	TM Acrolein	0.0125	0.0115	8.4	TM	
13	TML Acetone	0.1859	0.0931	50	TML	30*
14	TML Freon-113	0.5715	0.5758	0.75	TML	5.5
15	TM* 1,1-DCE	0.7137	0.6303	12	TM*	
16	TM t-Butanol	0.0034	0.0035	3.5	TM	
17	TML Methyl Acetate	0.2927	0.2030	31	TML	6.3
18	TML Iodomethane	0.3500	0.4253	21	TML	7.0
19	TML Acrylonitrile	0.0764	0.0746	2.3	TML	5.1
20	TM Methylene chloride	0.6808	0.6159	9.5	TM	
21	TM Carbon disulfide	0.6935	0.6450	7.0	TM	
22	TM Methyl t-butyl ether (MtBE)	1.079	1.046	3.1	TM	
23	TM Trans-1,2-DCE	0.8280	0.7496	9.5	TM	
24	TM Diisopropyl Ether	2.385	2.306	3.3	TM	
25	TM** 1,1-DCA	1.414	1.411	0.23	TM**	
26	TML Vinyl Acetate	0.5623	0.4364	22	TML	1.5
27	TM Ethyl tert Butyl Ether	1.628	1.646	1.1	TM	
28	TML MEK (2-Butanone)	0.3591	0.2972	17	TML	4.8
29	TM Cis-1,2-DCE	0.8509	0.7812	8.2	TM	
30	TM 2,2-Dichloropropane	1.013	0.8669	14	TM	
31	TM* Chloroform	1.361	1.332	2.1	TM*	
32	TM Bromochloromethane	0.2369	0.2434	2.8	TM	
33	S Dibromofluoromethane(S)	0.6660	0.6700	0.60	S	
34	TM 1,1,1-TCA	1.237	1.182	4.5	TM	
35	TM Cyclohexane	1.152	1.120	2.8	TM	
36	TM 1,1-Dichloropropene	1.060	0.9998	5.7	TM	
37	TML 2,2,4-Trimethylpentane	2.316	1.725	26	TML	5.3
38	S 1,2-DCA-D4(S)	0.5928	0.5784	2.4	S	
39	TM Carbon Tetrachloride	0.8521	0.8321	2.3	TM	
40	TM Tert Amyl Methyl Ether	1.217	1.216	0.15	TM	
	Average			8.3		

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/31/11
Instrument: Chico
Cal. Date: 10/30/11
Data File: 1030C28W.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	1,2-DCA	0.6984	0.6709	3.9	TM
42	TM	Benzene	3.046	2.887	5.2	TM
43	TM	TCE	0.8437	0.8134	3.6	TM
44	TM	2-Pentanone	0.1765	0.1769	0.25	TM
45	TM*	1,2-Dichloropropane	0.6924	0.6963	0.57	TM*
46	TM	Bromodichloromethane	0.7910	0.7910	0.01	TM
47	TM	Methyl Cyclohexane	0.9859	0.9347	5.2	TM
48	TM	Dibromomethane	0.2769	0.2811	1.5	TM
49	TM	2-Chloroethyl vinyl ether	0.1760	0.1764	0.23	TM
50	TM	1-Bromo-2-chloroethane	0.5908	0.6129	3.7	TM
51	TM	Cis-1,3-Dichloropropene	0.7543	0.7571	0.37	TM
52	TM*	Toluene	3.005	2.824	6.0	TM*
53	TM	Trans-1,3-Dichloropropene	0.5430	0.5270	3.0	TM
54	TM	1,1,2-TCA	0.2927	0.2901	0.90	TM
55	I	Chlorobenzene-D5 (IS)	ISTD			I
56	S	Toluene-D8(S)	3.518	3.782	7.5	S
57	TM	1,2-EDB	0.4758	0.5074	6.6	TM
58	TM	Tetrachloroethene	1.285	1.296	0.81	TM
59	TM	1-Chlorohexane	1.480	1.493	0.86	TM
60	TM	1,1,1,2-Tetrachloroethane	0.8047	0.8891	10	TM
61	TM	m&p-Xylene	1.899	1.889	0.49	TM
62	TM	o-Xylene	1.826	1.894	3.7	TM
63	TM	Styrene	2.756	2.935	6.5	TM
64	S	4-Bromofluorobenzene(S)	1.260	1.394	11	S
65	TM	2-Hexanone	0.2288	0.2487	8.7	TM
66	TM	1,3-Dichloropropane	0.9383	0.9463	0.86	TM
67	TM	Dibromochloromethane	0.6125	0.6760	10	TM
68	TM**	Chlorobenzene	2.716	2.809	3.4	TM**
69	TM*	Ethylbenzene	5.058	5.094	0.71	TM*
70	TM**L	Bromoform	0.2607	0.2895	11	TM**L 6.8
71	I	1,4-Dichlorobenzene-D (IS)	ISTD			I
72	TM	MIBK (methyl isobutyl ketone)	0.7107	0.6949	2.2	TM
73	TM	Isopropylbenzene	9.061	8.888	1.9	TM
74	TM**	1,1,2,2-Tetrachloroethane	0.7585	0.7787	2.7	TM**
75	TML	1,2,3-Trichloropropane	0.0967	0.1006	4.1	TML 18
76	TM	t-1,4-Dichloro-2-Butene	0.1720	0.1758	2.2	TM
77	TM	Bromobenzene	2.090	2.104	0.64	TM
78	TM	n-Propylbenzene	10.8	10.6	2.1	TM
79	TM	4-Ethyltoluene	7.480	6.973	6.8	TM
80	TM	2-Chlorotoluene	7.159	7.027	1.8	TM
					Average	3.7

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/31/11
Instrument: Chico
Cal. Date: 10/30/11
Data File: 1030C28W.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	1,3,5-Trimethylbenzene	7.359	7.258	1.4	TM
82	TM	4-Chlorotoluene	6.164	5.899	4.3	TM
83	TM	Tert-Butylbenzene	7.967	7.897	0.88	TM
84	TM	1,2,4-Trimethylbenzene	7.686	7.097	7.7	TM
85	TM	Sec-Butylbenzene	9.555	9.679	1.3	TM
86	TM	p-Isopropyltoluene	8.184	8.031	1.9	TM
87	TM	Benzyl Chloride	1.086	0.9559	12	TM
88	TM	1,3-DCB	4.274	4.133	3.3	TM
89	TM	1,4-DCB	3.967	3.945	0.56	TM
90	TML	Hexachloroethane	1.021	1.085	6.2	TML 11
91	TM	n-Butylbenzene	7.138	6.849	4.1	TM
92	TM	1,2-DCB	3.400	3.438	1.1	TM
93	TML	1,2-Dibromo-3-chloropropane	0.1148	0.1240	8.0	TML 2.0
94	TM	1,2,4-Trichlorobenzene	2.464	2.504	1.7	TM
95	TM	Hexachlorobutadiene	0.4476	0.4720	5.5	TM
96	TM	Naphthalene	3.040	3.207	5.5	TM
97	TM	1,2,3-Trichlorobenzene	1.864	2.025	8.7	TM
98						
99						
100						
101						
102						
103						
104						
105						
106						
107						
108						
109						
110						
111						
112						
113						
114						
115						
116						
117						
118						
119						
120						

Average

4.4

Data File : M:\CHICO\DATA\C111030\1030C28W.D
 Acq On : 31 Oct 11 8:48
 Sample : 111030A LCS-1WC (SS)
 Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:35 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:32:50 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	96	600576	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.04	117	389760	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.24	152	212800	25.00000	ppb	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) Dibromofluoromethane(S)	11.42	111	402364	25.15012	ppb	0.00
Spiked Amount 25.097						Recovery = 100.210%
38) 1,2-DCA-D4(S)	12.23	65	347346	24.38980	ppb	0.00
Spiked Amount 24.225						Recovery = 100.680%
56) Toluene-D8(S)	15.50	98	1474138	26.88019	ppb	0.00
Spiked Amount 25.808						Recovery = 104.153%
64) 4-Bromofluorobenzene(S)	20.11	95	543410	27.65447	ppb	0.00
Spiked Amount 25.459						Recovery = 108.620%

Target Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) Dichlorodifluoromethane	4.07	85	222193	10.04166	ppb	100
3) Freon 114	4.33	85	146402	10.56428	ppb	93
4) Chloromethane	4.55	50	258385	9.42321	ppb	99
5) Vinyl chloride	4.82	62	186738	10.18146	ppb	96
7) Bromomethane	5.72	94	119189	8.95228	ppb	94
8) Chloroethane	5.91	64	134747	8.89428	ppb	97
9) Dichlorofluoromethane	6.01	67	386134	9.21828	ppb	97
10) Trichlorofluoromethane	6.52	101	241622	9.72027	ppb	99
11) Acetonitrile	7.64	41	78885	119.90087	ug/l	100
12) Acrolein	7.16	56	34469	114.48914	ppb	96
13) Acetone	7.27	43	22365	12.99757	ppb	# 84
14) Freon-113	7.46	101	138327	9.44782	ppb	97
15) 1,1-DCE	7.67	96	151407	8.83040	ppb	96
16) t-Butanol	7.76	59	10529	129.32077	ppb	93
17) Methyl Acetate	8.18	43	48755	9.36519	ppb	96
18) Iodomethane	8.16	142	102169	10.69989	ppb	90
19) Acrylonitrile	8.56	53	17916	9.49044	ppb	79
20) Methylene chloride	8.47	84	147951	9.04673	ppb	99
21) Carbon disulfide	8.56	76	154944	9.30051	ppb	100
22) Methyl t-butyl ether (MtBE)	8.89	73	251165	9.69151	ppb	96
23) Trans-1,2-DCE	9.10	96	180083	9.05360	ppb	88
24) Diisopropyl Ether	9.75	45	553904	9.66784	ppb	94
25) 1,1-DCA	9.79	63	339012	9.97748	ppb	99
26) Vinyl Acetate	9.42	43	104836	9.85383	ppb	# 83
27) Ethyl tert Butyl Ether	10.45	59	395408	10.10888	ppb	99
28) MEK (2-Butanone)	10.44	43	71405	10.48433	ppb	99
29) Cis-1,2-DCE	10.82	96	187663	9.18084	ppb	97
30) 2,2-Dichloropropane	10.82	77	208247	8.55600	ppb	97
31) Chloroform	11.10	83	320091	9.79258	ppb	99
32) Bromochloromethane	11.32	128	58472	10.27501	ppb	98
34) 1,1,1-TCA	11.84	97	283983	9.55329	ppb	96
35) Cyclohexane	12.00	56	268948	9.71733	ppb	94
36) 1,1-Dichloropropene	12.10	75	240188	9.42981	ppb	99
37) 2,2,4-Trimethylpentane	12.18	57	414455	9.47423	ppb	98
39) Carbon Tetrachloride	12.30	117	199898	9.76577	ppb	98
40) Tert Amyl Methyl Ether	12.34	73	292021	9.98459	ppb	99
41) 1,2-DCA	12.38	62	161160	9.60516	ppb	100
42) Benzene	12.50	78	693647	9.47863	ppb	96
43) TCE	13.53	95	195399	9.64105	ppb	91

Algorithm Check: $\frac{(222193)(25)}{(600576)(0.92072)}$ value (1) = 10.04166347 ✓
 ARS 12/7/11

Data File : M:\CHICO\DATA\C111030\1030C28W.D
 Acq On : 31 Oct 11 8:48
 Sample : 111030A LCS-1WC (SS)
 Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:35 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:32:50 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 2-Pentanone	13.20	43	531259	125.31057	ppb	97
45) 1,2-Dichloropropane	13.76	63	167281	10.05687	ppb #	94
46) Bromodichloromethane	14.11	83	190021	9.99949	ppb #	91
47) Methyl Cyclohexane	13.82	83	224538	9.48040	ppb	99
48) Dibromomethane	14.16	93	67527	10.15102	ppb	95
49) 2-Chloroethyl vinyl ether	14.57	63	42382	10.02259	ppb	95
50) 1-Bromo-2-chloroethane	14.88	63	147231	10.37368	ppb #	79
51) Cis-1,3-Dichloropropene	15.00	75	181879	10.03716	ppb	100
52) Toluene	15.63	91	678338	9.39804	ppb	99
53) Trans-1,3-Dichloropropene	15.80	75	126600	9.70449	ppb	98
54) 1,1,2-TCA	16.08	83	69681	9.91034	ppb	93
57) 1,2-EDB	17.33	107	79107	10.66417	ppb	94
58) Tetrachloroethene	16.78	164	202010	10.08114	ppb	94
59) 1-Chlorohexane	17.70	91	232734	10.08580	ppb	97
60) 1,1,1,2-Tetrachloroethane	18.16	131	138607	11.04877	ppb	99
61) m&p-Xylene	18.35	106	589147	19.90172	ppb	97
62) o-Xylene	19.11	106	295217	10.36928	ppb	98
63) Styrene	19.13	104	457607	10.64883	ppb	93
65) 2-Hexanone	16.11	43	38770	10.87089	ppb	95
66) 1,3-Dichloropropane	16.49	76	147530	10.08561	ppb	98
67) Dibromochloromethane	16.97	129	105397	11.03714	ppb	82
68) Chlorobenzene	18.10	112	437982	10.34243	ppb	97
69) Ethylbenzene	18.22	91	794180	10.07104	ppb	100
70) Bromoform	19.65	173	45131	9.31734	ppb	91
72) MIBK (methyl isobutyl keto)	14.68	43	59150	9.77763	ppb	87
73) Isopropylbenzene	19.73	105	756513	9.80877	ppb	98
74) 1,1,2,2-Tetrachloroethane	19.90	83	66287	10.26718	ppb #	74
75) 1,2,3-Trichloropropane	20.16	110	8565	11.81260	ppb	82
76) t-1,4-Dichloro-2-Butene	20.23	53	14963	10.22116	ppb #	92
77) Bromobenzene	20.48	156	179052	10.06445	ppb	89
78) n-Propylbenzene	20.44	91	900774	9.79012	ppb	100
79) 4-Ethyltoluene	20.63	105	593563	9.32229	ppb	97
80) 2-Chlorotoluene	20.74	91	598129	9.81561	ppb	98
81) 1,3,5-Trimethylbenzene	20.72	105	617840	9.86323	ppb	99
82) 4-Chlorotoluene	20.82	91	502123	9.56935	ppb	98
83) Tert-Butylbenzene	21.36	119	672218	9.91209	ppb	97
84) 1,2,4-Trimethylbenzene	21.42	105	604092	9.23368	ppb	96
85) Sec-Butylbenzene	21.76	105	823845	10.12964	ppb	96
86) p-Isopropyltoluene	21.99	119	683604	9.81315	ppb	98
87) Benzyl Chloride	22.42	91	81362	8.79846	ppb	94
88) 1,3-DCB	22.12	146	351790	9.66926	ppb	95
89) 1,4-DCB	22.30	146	335795	9.94420	ppb	96
90) Hexachloroethane	23.59	117	92345	8.87470	ppb	87
91) n-Butylbenzene	22.69	91	582962	9.59448	ppb	98
92) 1,2-DCB	22.93	146	292666	10.11316	ppb	97
93) 1,2-Dibromo-3-chloropropan	24.14	155	10559	10.20135	ppb	92
94) 1,2,4-Trichlorobenzene	25.59	180	213173	10.16551	ppb	98
95) Hexachlorobutadiene	25.84	223	40176	10.54513	ppb	97
96) Naphthalene	25.94	128	272964	10.54986	ppb	99
97) 1,2,3-Trichlorobenzene	26.29	180	172357	10.86589	ppb	99

Quantitation Report

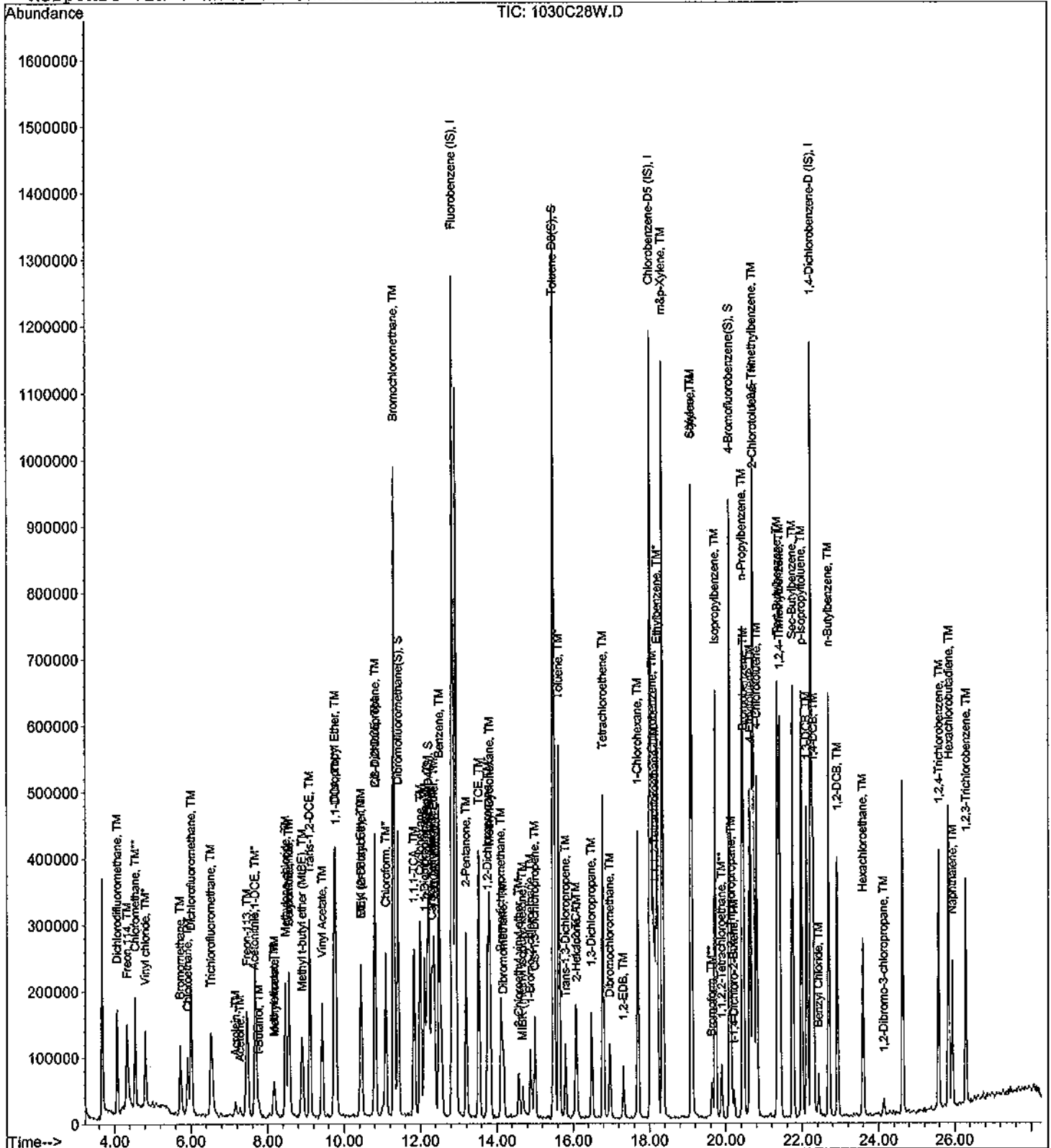
Data File : M:\CHICO\DATA\C111030\1030C28W.D
Acq On : 31 Oct 11 8:48
Sample : 111030A LCS-1WC (SS)
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Dec 2 11:35 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Dec 02 11:32:50 2011
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 10/31/2011
Instrument: Chico
Initial Cal. Date: 10/30/2011
Data File: 1031C02W.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	Fluorobenzene (IS)	ISTD			I
2	TM	Dichlorodifluoromethane	0.9211	0.8622	6.4	TM
3	TM	Freon 114	0.5769	0.5612	2.7	TM
4	TM**	Chloromethane	1.141	1.018	11	TM**
5	TM*	Vinyl chloride	0.7635	0.8076	5.8	TM*
6	TML	1,3-Butadiene	0.0000	0.0017	0.00	TML
7	TM	Bromomethane	0.5542	0.5380	2.9	TM
8	TM	Chloroethane	0.6306	0.5693	9.7	TM
9	TM	Dichlorofluoromethane	1.744	1.571	9.9	TM
10	TM	Trichlorofluoromethane	1.035	0.9789	5.4	TM
11		Acetonitrile	0.0274	0.0260	5.2	
12	TM	Acrolein	0.0125	0.0125	0.57	TM
13	TML	Acetone	0.1859	0.0713	62	TML 0.43
14	TML	Freon-113	0.5715	0.6038	5.6	TML 0.36
15	TM*	1,1-DCE	0.7137	0.6583	7.8	TM*
16	TM	t-Butanol	0.0034	0.0021	37	TM
17	TML	Methyl Acetate	0.2927	0.1956	33	TML 10.0
18	TML	Iodomethane	0.3500	0.3727	6.5	TML 1.5
19	TML	Acrylonitrile	0.0764	0.0734	3.8	TML 6.6
20	TM	Methylene chloride	0.6808	0.6268	7.9	TM
21	TM	Carbon disulfide	0.6935	0.6528	5.9	TM
22	TM	Methyl t-butyl ether (MtBE)	1.079	0.9661	10	TM
23	TM	Trans-1,2-DCE	0.8280	0.7399	11	TM
24	TM	Diisopropyl Ether	2.385	2.226	6.7	TM
25	TM**	1,1-DCA	1.414	1.343	5.1	TM**
26	TML	Vinyl Acetate	0.5623	0.4408	22	TML 0.32
27	TM	Ethyl tert Butyl Ether	1.628	1.520	6.7	TM
28	TML	MEK (2-Butanone)	0.3591	0.2543	29	TML 11
29	TM	Cis-1,2-DCE	0.8509	0.7655	10	TM
30	TM	2,2-Dichloropropane	1.013	0.9468	6.6	TM
31	TM*	Chloroform	1.361	1.253	7.9	TM*
32	TM	Bromochloromethane	0.2369	0.2201	7.1	TM
33	S	Dibromofluoromethane(S)	0.6660	0.6433	3.4	S
34	TM	1,1,1-TCA	1.237	1.126	9.0	TM
35	TM	Cyclohexane	1.152	1.143	0.80	TM
36	TM	1,1-Dichloropropene	1.060	0.9996	5.7	TM
37	TML	2,2,4-Trimethylpentane	2.316	1.858	20	TML 2.9
38	S	1,2-DCA-D4(S)	0.5928	0.5215	12	S
39	TM	Carbon Tetrachloride	0.8521	0.8067	5.3	TM
40	TM	Tert Amyl Methyl Ether	1.217	1.116	8.3	TM
Average					10.7	

* NT
RRS 12/7/11

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/31/2011
Instrument: Chico
Cal. Date: 10/30/2011
Data File: 1031C02W.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	1,2-DCA	0.6984	0.5937	15	TM
42	TM	Benzene	3.046	2.875	5.6	TM
43	TM	TCE	0.8437	0.7628	9.6	TM
44	TM	2-Pentanone	0.1765	0.1647	6.7	TM
45	TM*	1,2-Dichloropropane	0.6924	0.6619	4.4	TM*
46	TM	Bromodichloromethane	0.7910	0.7515	5.0	TM
47	TM	Methyl Cyclohexane	0.9859	0.9591	2.7	TM
48	TM	Dibromomethane	0.2769	0.2622	5.3	TM
49	TM	2-Chloroethyl vinyl ether	0.1760	0.1609	8.6	TM
50	TM	1-Bromo-2-chloroethane	0.5908	0.5327	9.8	TM
51	TM	Cis-1,3-Dichloropropene	0.7543	0.7166	5.0	TM
52	TM*	Toluene	3.005	2.851	5.1	TM*
53	TM	Trans-1,3-Dichloropropene	0.5430	0.5071	6.6	TM
54	TM	1,1,2-TCA	0.2927	0.2818	3.7	TM
55	I	Chlorobenzene-D5 (IS)	ISTD			I
56	S	Toluene-D8(S)	3.518	3.680	4.6	S
57	TM	1,2-EDB	0.4758	0.4707	1.1	TM
58	TM	Tetrachloroethene	1.285	1.235	3.9	TM
59	TM	1-Chlorohexane	1.480	1.471	0.61	TM
60	TM	1,1,1,2-Tetrachloroethane	0.8047	0.8122	0.94	TM
61	TM	m&p-Xylene	1.899	1.800	5.2	TM
62	TM	o-Xylene	1.826	1.777	2.7	TM
63	TM	Styrene	2.756	2.669	3.2	TM
64	S	4-Bromofluorobenzene(S)	1.260	1.290	2.4	S
65	TM	2-Hexanone	0.2288	0.2098	8.3	TM
66	TM	1,3-Dichloropropane	0.9383	0.8969	4.4	TM
67	TM	Dibromochloromethane	0.6125	0.5870	4.2	TM
68	TM**	Chlorobenzene	2.716	2.601	4.3	TM**
69	TM*	Ethylbenzene	5.058	4.826	4.6	TM*
70	TM**L	Bromoform	0.2607	0.2604	0.11	TM**L 15
71	I	1,4-Dichlorobenzene-D (IS)	ISTD			I
72	TM	MIBK (methyl isobutyl ketone)	0.7107	0.6863	3.4	TM
73	TM	Isopropylbenzene	9.061	9.020	0.45	TM
74	TM**	1,1,2,2-Tetrachloroethane	0.7585	0.8216	8.3	TM**
75	TML	1,2,3-Trichloropropane	0.0967	0.0854	12	TML 0.36
76	TM	t-1,4-Dichloro-2-Butene	0.1720	0.1606	6.6	TM
77	TM	Bromobenzene	2.090	2.008	3.9	TM
78	TM	n-Propylbenzene	10.8	10.6	1.8	TM
79	TM	4-Ethyltoluene	7.480	6.945	7.2	TM
80	TM	2-Chlorotoluene	7.159	6.943	3.0	TM
Average					5.0	

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: _____
Date Analyzed: 10/31/2011
Instrument: Chico
Cal. Date: 10/30/2011
Data File: 1031C02W.D

		Compound	MEAN	CCRF	%D	%Drift	
81	TM	1,3,5-Trimethylbenzene	7.359	7.059	4.1	TM	
82	TM	4-Chlorotoluene	6.164	5.847	5.1	TM	
83	TM	Tert-Butylbenzene	7.967	7.808	2.0	TM	
84	TM	1,2,4-Trimethylbenzene	7.686	6.996	9.0	TM	
85	TM	Sec-Butylbenzene	9.555	9.541	0.15	TM	
86	TM	p-Isopropyltoluene	8.184	7.999	2.3	TM	
87	TM	Benzyl Chloride	1.086	1.151	5.9	TM	
88	TM	1,3-DCB	4.274	4.119	3.6	TM	
89	TM	1,4-DCB	3.967	3.876	2.3	TM	
90	TML	Hexachloroethane	1.021	1.208	18	TML	3.4
91	TM	n-Butylbenzene	7.138	6.711	6.0	TM	
92	TM	1,2-DCB	3.400	3.318	2.4	TM	
93	TML	1,2-Dibromo-3-chloropropane	0.1148	0.1181	2.8	TML	2.3
94	TM	1,2,4-Trichlorobenzene	2.464	2.292	7.0	TM	
95	TM	Hexachlorobutadiene	0.4476	0.4054	9.4	TM	
96	TM	Naphthalene	3.040	2.816	7.4	TM	
97	TM	1,2,3-Trichlorobenzene	1.864	1.703	8.6	TM	
98							
99							
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							

Average

5.7

Data File : M:\CHICO\DATA\C111030\1031C02W.D
 Acq On : 31 Oct 11 20:28
 Sample : Voc Std 10-31-11@10ug/L
 Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:35 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:32:50 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	96	691622	25.00000	ppb	0.01
55) Chlorobenzene-D5 (IS)	18.04	117	457984	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.25	152	237760	25.00000	ppb	0.01

System Monitoring Compounds

33) Dibromofluoromethane(S)	11.44	111	444919	24.14911	ppb	0.01
Spiked Amount	25.097		Recovery	=	96.222%	
38) 1,2-DCA-D4(S)	12.23	65	360696	21.99310	ppb	0.00
Spiked Amount	24.225		Recovery	=	90.785%	
56) Toluene-D8(S)	15.51	98	1685172	26.15083	ppb	0.01
Spiked Amount	25.808		Recovery	=	101.328%	
64) 4-Bromofluorobenzene(S)	20.12	95	591025	25.59709	ppb	0.01
Spiked Amount	25.459		Recovery	=	100.540%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	4.07	85	238529	9.36086	ppb	93
3) Freon 114	4.35	85	155246	9.72775	ppb	88
4) Chloromethane	4.56	50	281528	8.91564	ppb	100
5) Vinyl chloride	4.83	62	223413	10.57754	ppb	96
7) Bromomethane	5.73	94	148847	9.70815	ppb	99
8) Chloroethane	5.92	64	157492	9.02712	ppb	96
9) Dichlorofluoromethane	6.02	67	434534	9.00814	ppb	97
10) Trichlorofluoromethane	6.53	101	270813	9.46043	ppb	96
11) Acetonitrile	7.66	41	89751	118.45854	ug/l	100
12) Acrolein	7.17	56	43092	124.28864	ppb	91
13) Acetone	7.29	43	19730	9.95679	ppb	# 84
14) Freon-113	7.47	101	167045	9.96372	ppb	96
15) 1,1-DCE	7.69	96	182122	9.22351	ppb	86
16) t-Butanol	7.77	59	7385	78.76456	ppb	99
17) Methyl Acetate	8.21	43	54115	9.00148	ppb	95
18) Iodomethane	8.17	142	103108	9.84938	ppb	# 88
19) Acrylonitrile	8.56	53	20317	9.33972	ppb	86
20) Methylene chloride	8.49	84	173397	9.20692	ppb	97
21) Carbon disulfide	8.57	76	180608	9.41387	ppb	96
22) Methyl t-butyl ether (MtBE)	8.91	73	267268	8.95526	ppb	99
23) Trans-1,2-DCE	9.10	96	204697	8.93633	ppb	95
24) Diisopropyl Ether	9.76	45	615743	9.33240	ppb	97
25) 1,1-DCA	9.80	63	371502	9.49437	ppb	95
26) Vinyl Acetate	9.43	43	121934	9.96764	ppb	98
27) Ethyl tert Butyl Ether	10.45	59	420459	9.33427	ppb	# 89
28) MEK (2-Butanone)	10.44	43	70348	8.87086	ppb	100
29) Cis-1,2-DCE	10.83	96	211762	8.99603	ppb	93
30) 2,2-Dichloropropane	10.82	77	261919	9.34455	ppb	99
31) Chloroform	11.10	83	346586	9.20733	ppb	99
32) Bromochloromethane	11.33	128	60895	9.29213	ppb	88
34) 1,1,1-TCA	11.84	97	311618	9.10295	ppb	96
35) Cyclohexane	12.02	56	316184	9.92014	ppb	94
36) 1,1-Dichloropropene	12.11	75	276537	9.42766	ppb	98
37) 2,2,4-Trimethylpentane	12.18	57	513950	10.29061	ppb	96
39) Carbon Tetrachloride	12.31	117	223170	9.46745	ppb	93
40) Tert Amyl Methyl Ether	12.36	73	308751	9.16693	ppb	97

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

Data File : M:\CHICO\DATA\C111030\1031C02W.D Vial: 1
 Acq On : 31 Oct 11 20:28 Operator: STC
 Sample : Voc Std 10-31-11@10ug/L Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Dec 2 11:35 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:32:50 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue	
41) 1,2-DCA	12.38	62	164255	8.50091	ppb	#	93
42) Benzene	12.51	78	795327	9.43739	ppb		98
43) TCE	13.54	95	211023	9.04130	ppb		89
44) 2-Pentanone	13.21	43	569663	116.68058	ppb		93
45) 1,2-Dichloropropane	13.78	63	183110	9.55933	ppb	#	93
46) Dibromodichloromethane	14.13	83	207908	9.50050	ppb		92
47) Methyl Cyclohexane	13.84	83	265332	9.72805	ppb		99
48) Dibromomethane	14.17	93	72544	9.46962	ppb		88
49) 2-Chloroethyl vinyl ether	14.59	63	44500	9.13814	ppb	#	94
50) 1-Bromo-2-chloroethane	14.89	63	147361	9.01603	ppb		87
51) Cis-1,3-Dichloropropene	15.02	75	198255	9.50061	ppb		94
52) Toluene	15.64	91	788659	9.48810	ppb		99
53) Trans-1,3-Dichloropropene	15.82	75	140296	9.33863	ppb		99
54) 1,1,2-TCA	16.09	83	77960	9.62820	ppb	#	88
57) 1,2-EDB	17.34	107	86231	9.89288	ppb	#	97
58) Tetrachloroethene	16.80	164	226307	9.61129	ppb		95
59) 1-Chlorohexane	17.71	91	269479	9.93854	ppb		95
60) 1,1,1,2-Tetrachloroethane	18.17	131	148790	10.09368	ppb		93
61) m&p-Xylene	18.37	106	659478	18.95895	ppb		99
62) o-Xylene	19.12	106	325481	9.72926	ppb		90
63) Styrene	19.13	104	488862	9.68150	ppb		97
65) 2-Hexanone	16.11	43	38443	9.17346	ppb		100
66) 1,3-Dichloropropane	16.51	76	164312	9.55956	ppb		94
67) Dibromochloromethane	16.98	129	107532	9.58326	ppb		86
68) Chlorobenzene	18.11	112	476427	9.57435	ppb		95
69) Ethylbenzene	18.23	91	884060	9.54078	ppb		98
70) Bromoform	19.65	173	47710	8.49625	ppb	#	62
72) MIBK (methyl isobutyl keto)	14.69	43	65269	9.65648	ppb		87
73) Isopropylbenzene	19.75	105	857810	9.95456	ppb		96
74) 1,1,2,2-Tetrachloroethane	19.90	83	78142	10.83278	ppb	#	95
75) 1,2,3-Trichloropropane	20.17	110	8119	10.03574	ppb		85
76) t-1,4-Dichloro-2-Butene	20.23	53	15270	9.33584	ppb	#	69
77) Bromobenzene	20.48	156	190969	9.60742	ppb		98
78) n-Propylbenzene	20.45	91	1009404	9.81907	ppb		97
79) 4-Ethyltoluene	20.65	105	660482	9.28431	ppb		94
80) 2-Chlorotoluene	20.74	91	660311	9.69848	ppb		99
81) 1,3,5-Trimethylbenzene	20.72	105	671295	9.59156	ppb		95
82) 4-Chlorotoluene	20.82	91	556109	9.48561	ppb		97
83) Tert-Butylbenzene	21.37	119	742560	9.79985	ppb		94
84) 1,2,4-Trimethylbenzene	21.43	105	665378	9.10275	ppb		95
85) Sec-Butylbenzene	21.77	105	907361	9.98530	ppb		96
86) p-Isopropyltoluene	22.00	119	760695	9.77343	ppb		99
87) Benzyl Chloride	22.44	91	109419	10.59035	ppb		93
88) 1,3-DCB	22.14	146	391768	9.63766	ppb		95
89) 1,4-DCB	22.31	146	368583	9.76931	ppb		98
90) Hexachloroethane	23.61	117	114864	9.65762	ppb		90
91) n-Butylbenzene	22.71	91	638272	9.40199	ppb		99
92) 1,2-DCB	22.93	146	315592	9.76053	ppb		98
93) 1,2-Dibromo-3-chloropropan	24.15	155	11227	9.77038	ppb	#	84
94) 1,2,4-Trichlorobenzene	25.59	180	217972	9.30316	ppb		97
95) Hexachlorobutadiene	25.85	223	38552	9.05660	ppb		96

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

Data File : M:\CHICO\DATA\C111030\1031C02W.D Vial: 1
 Acq On : 31 Oct 11 20:28 Operator: STC
 Sample : Voc Std 10-31-11@10ug/L Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Dec 2 11:35 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:32:50 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) Naphthalene	25.94	128	267813	9.26416	ppb #	92
97) 1,2,3-Trichlorobenzene	26.30	180	161983	9.13984	ppb	96

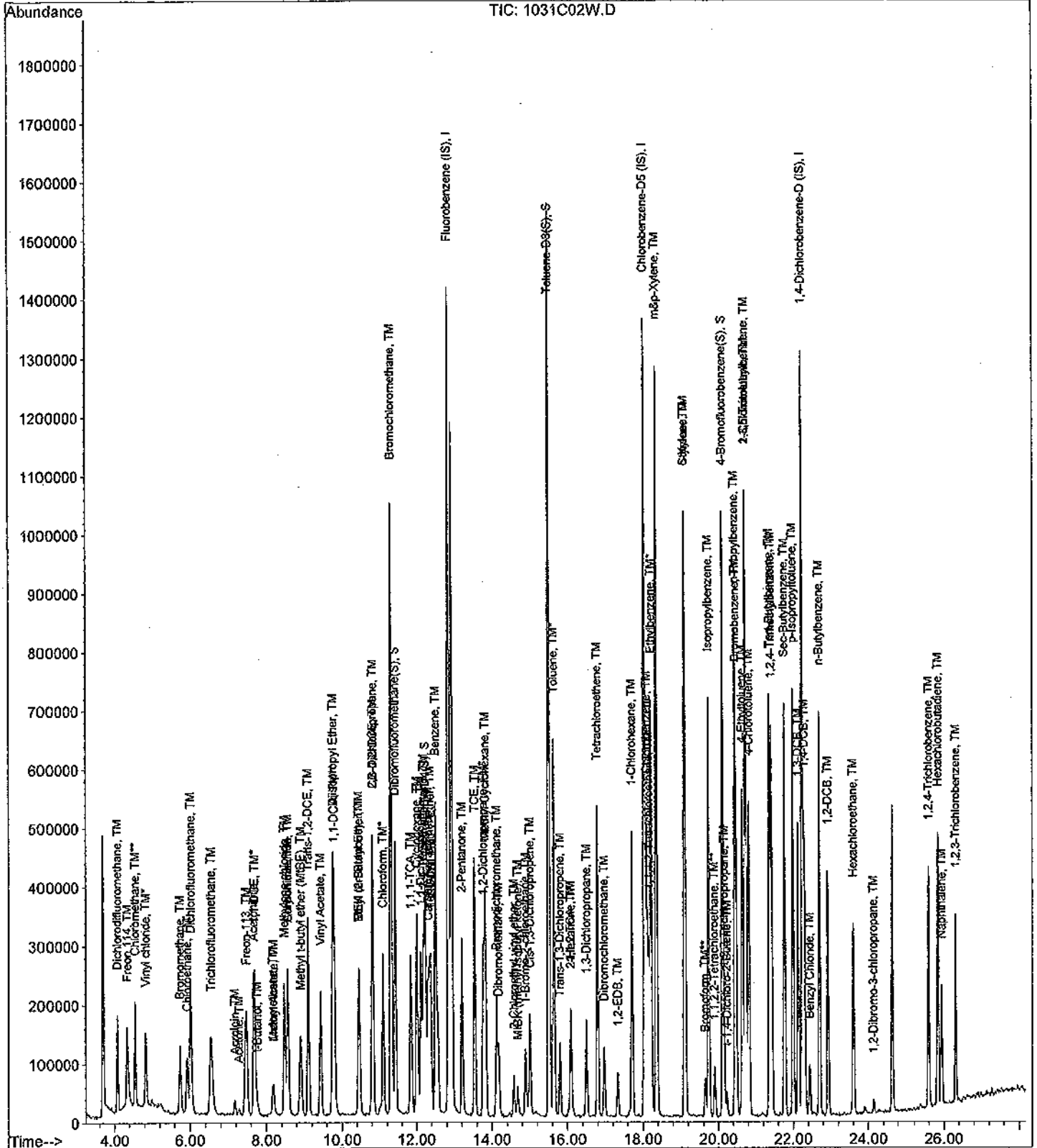
Data File : M:\CHICO\DATA\C111030\1031C02W.D
Acq On : 31 Oct 11 20:28
Sample : Voc Std 10-31-11@10ug/L
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Dec 2 11:35 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Fri Dec 02 11:32:50 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C111030\1030C05W.D Vial: 1
 Acq On : 30 Oct 11 16:17 Operator: STC
 Sample : Vol Std 10-30-11@20ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 10:29 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:32:18 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.86	TIC	1064868	25.00000	ppb	0.02
3) Chlorobenzene-D5 (IS)	18.05	TIC	1075283	25.00000	ppb	0.01
4) 1,4-Dichlorobenzene-D (IS)	22.26	TIC	1031464	25.00000	ppb	0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	18.05	TIC	15186538m	62.79631	ppb	100

Quantitation Report

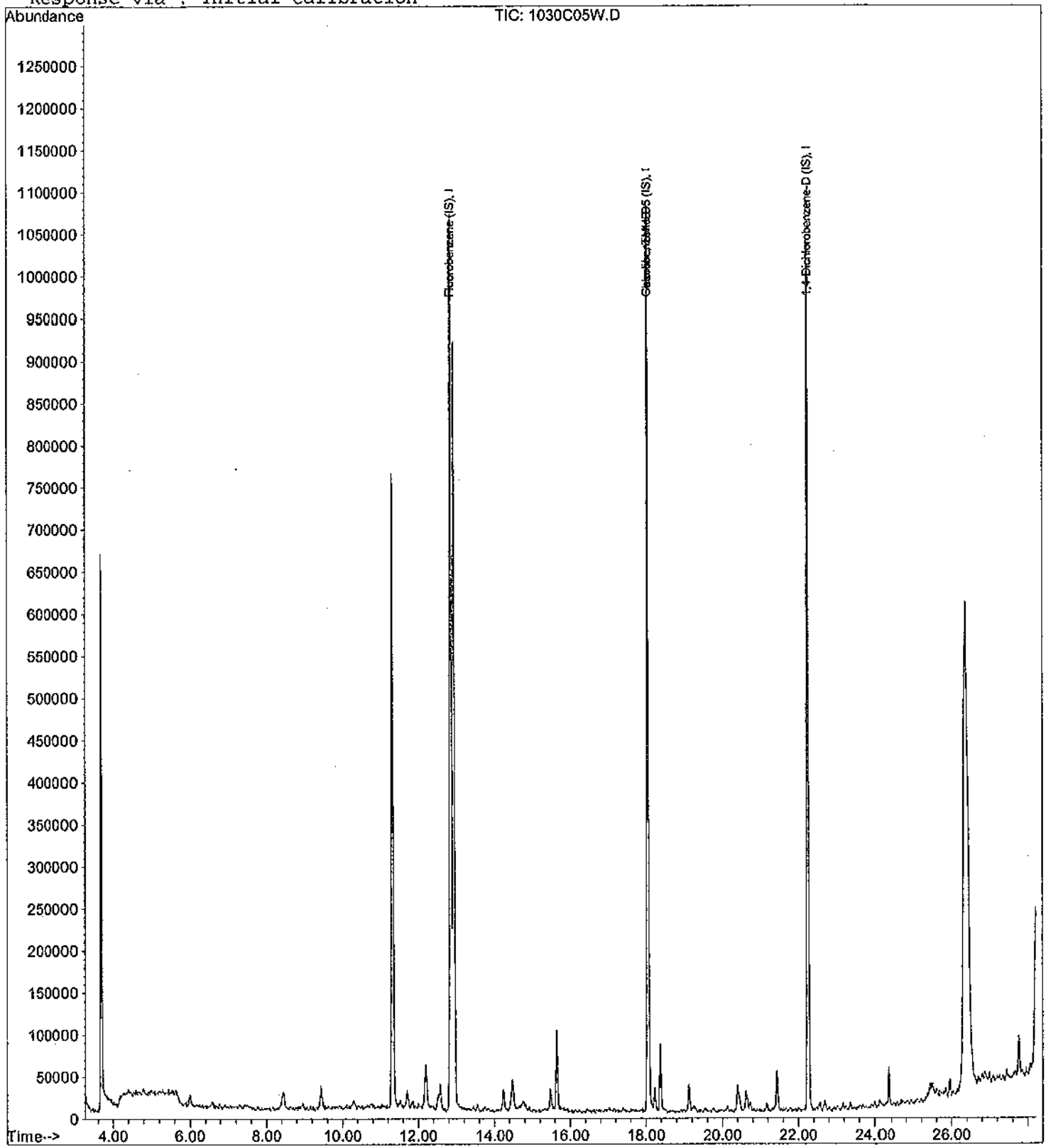
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Acq On : 30 Oct 11 16:17
Sample : Vol Std 10-30-11@20ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 10:29 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



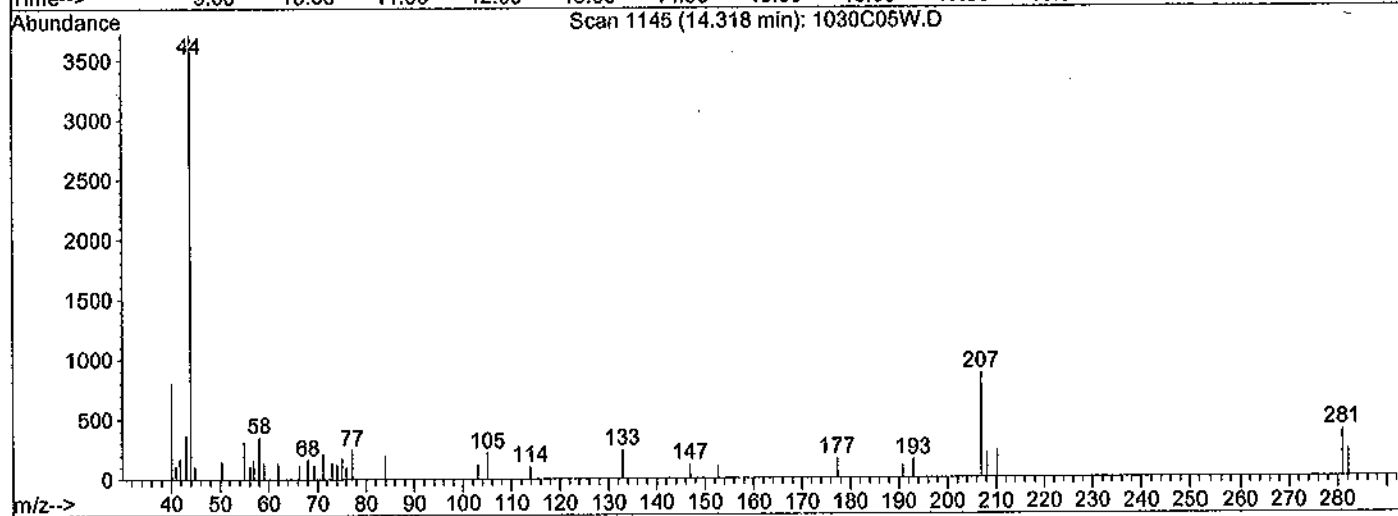
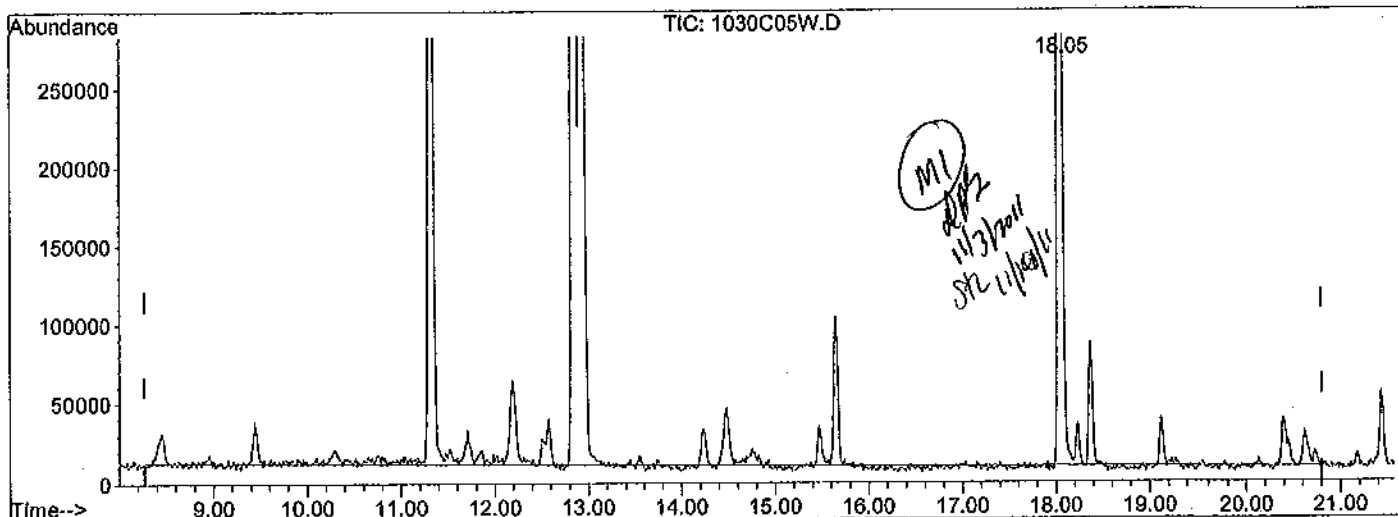
305

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C05W.D
 Acq On : 30 Oct 11 16:17
 Sample : Vol Std 10-30-11@20ug/L
 Misc : Water 10mLw/ IS:10-30-11
 Quant Time: Oct 31 9:32 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration



TIC: 1030C05W.D

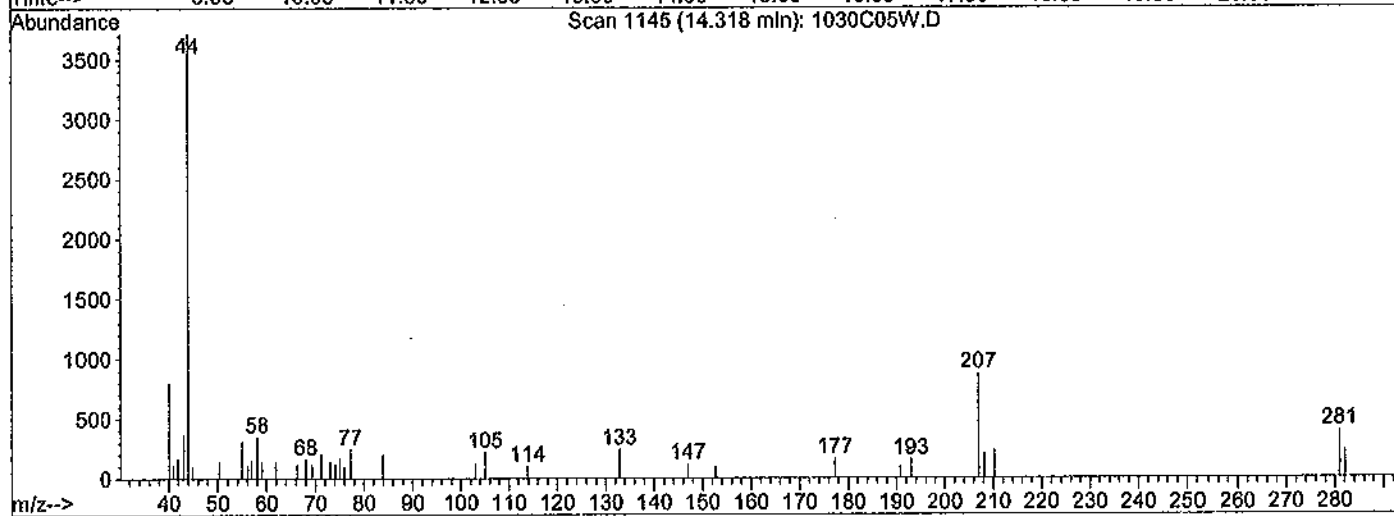
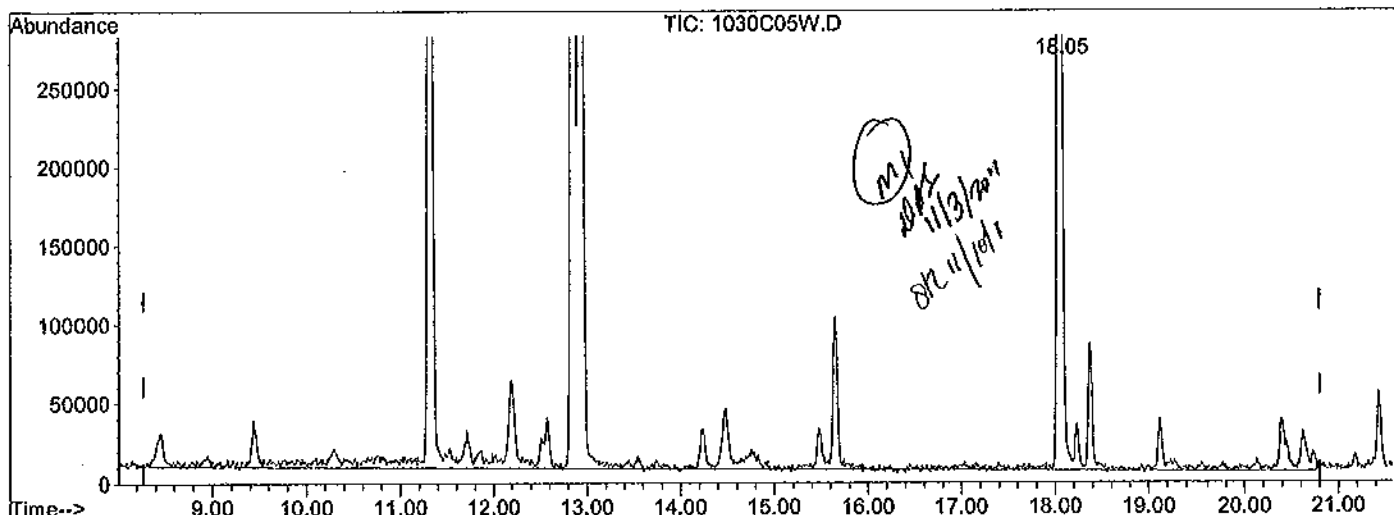
(2) Gasoline (TMHB)		
14.31min	48.1330ppb m	
response	11640400	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.82#
0.00	0.00	2.44#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C05W.D
 Acq On : 30 Oct 11 16:17
 Sample : Vol Std 10-30-11@20ug/L
 Misc : Water 10mLw/ IS:10-30-11
 Quant Time: Nov 3 10:29 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration



TIC: 1030C05W.D

(2) Gasoline (TMHB)		
18.05min	62.7963ppb m	
response	15186538	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.63#
0.00	0.00	1.87#
0.00	0.00	0.00

Data File : M:\CHICO\DATA\C111030\1030C06W.D Vial: 1
 Acq On : 30 Oct 11 17:00 Operator: STC
 Sample : Vol Std 10-30-11050ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 10:30 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:32:18 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1074535	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.04	TIC	1105653	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.24	TIC	1049854	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	18.04	TIC	17501250m	71.71659	ppb	100

Quantitation Report

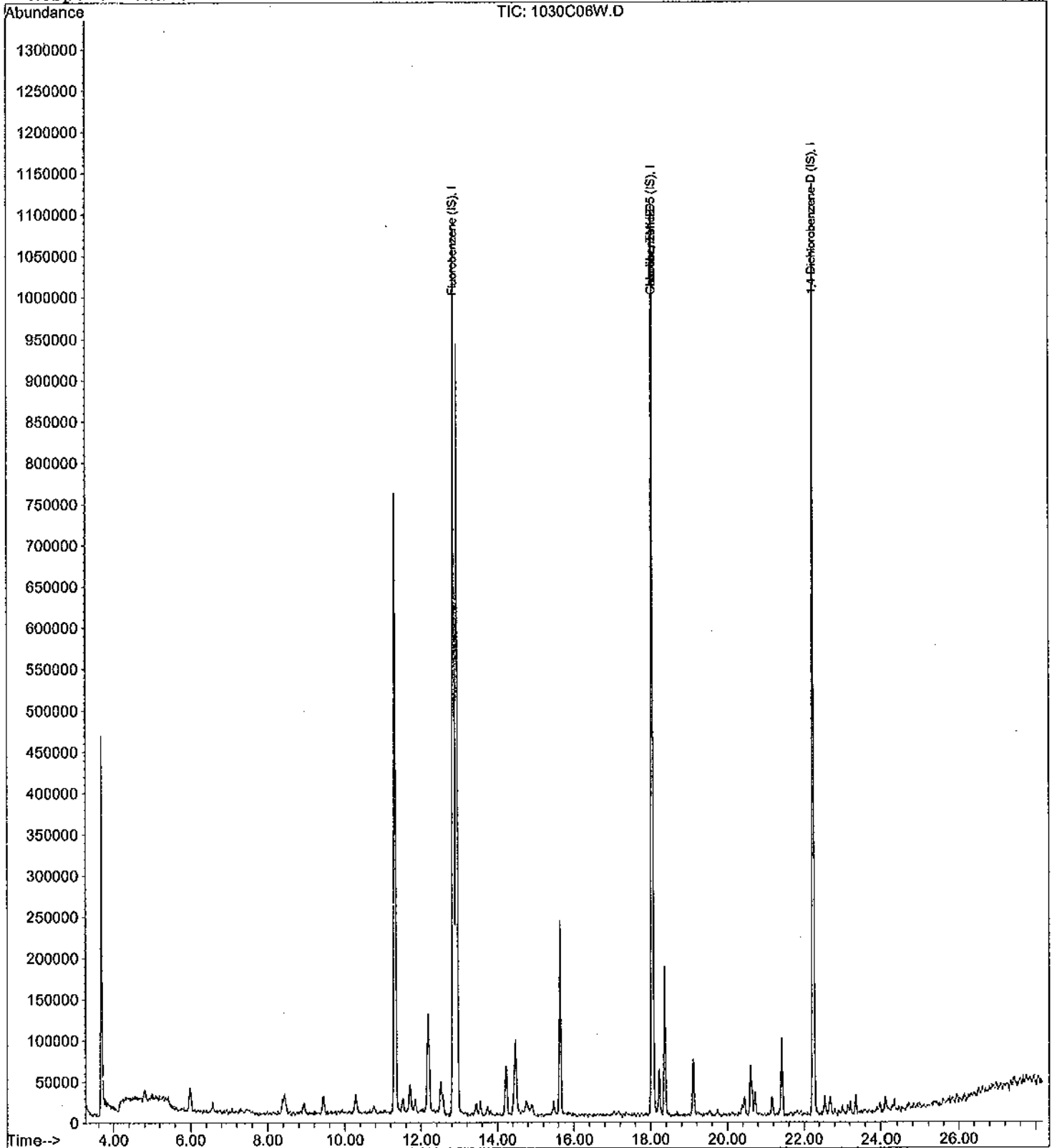
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Acq On : 30 Oct 11 17:00
Sample : Vol Std 10-30-11@50ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 10:30 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



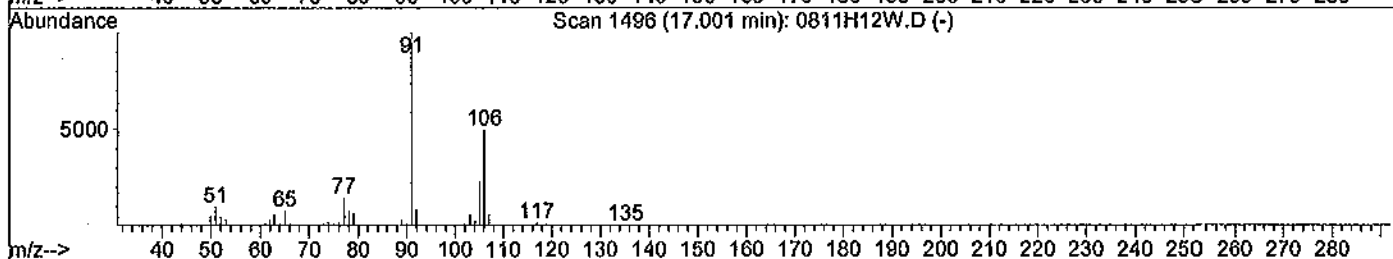
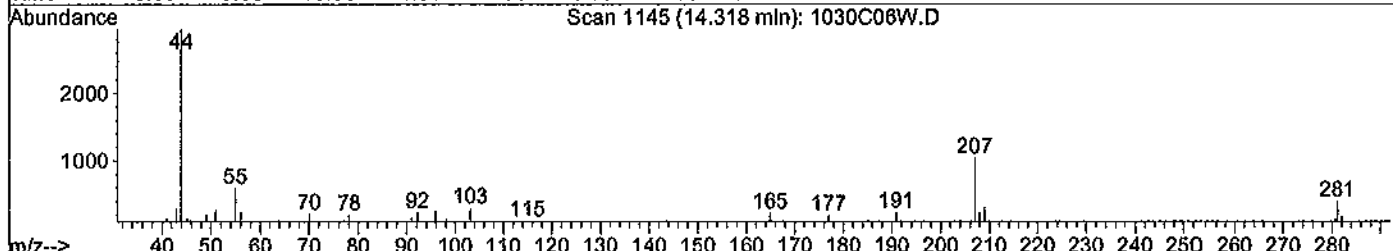
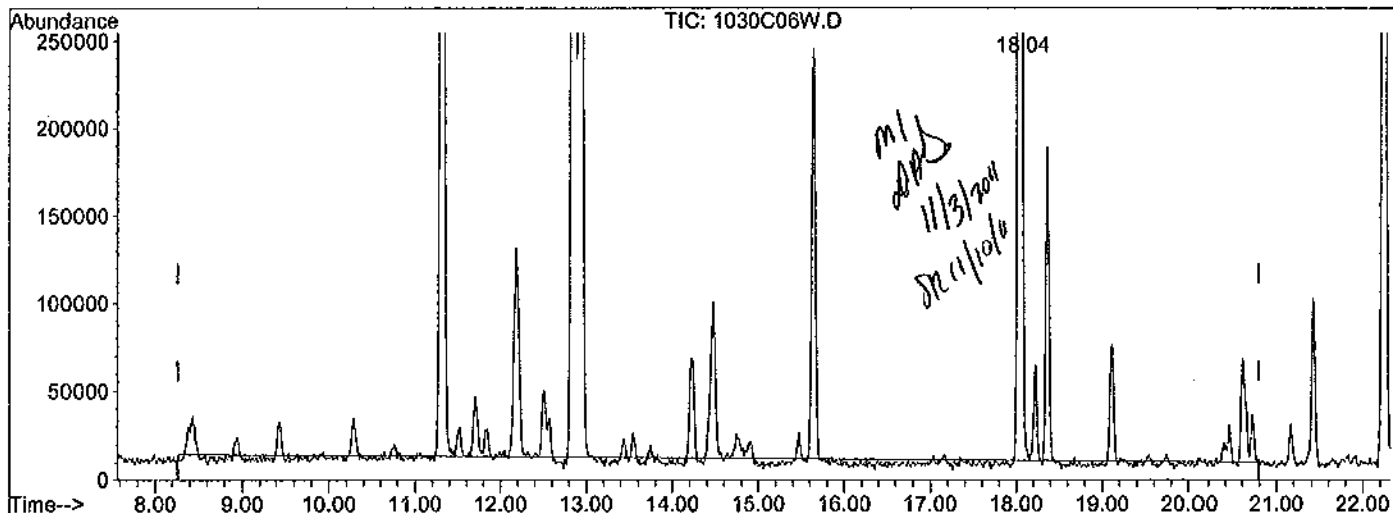
309

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C06W.D
 Acq On : 30 Oct 11 17:00
 Sample : Vol Std 10-30-11@50ug/L
 Misc : Water 10mLw/ IS:10-30-11
 Quant Time: Oct 31 9:32 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration



TIC: 1030C06W.D

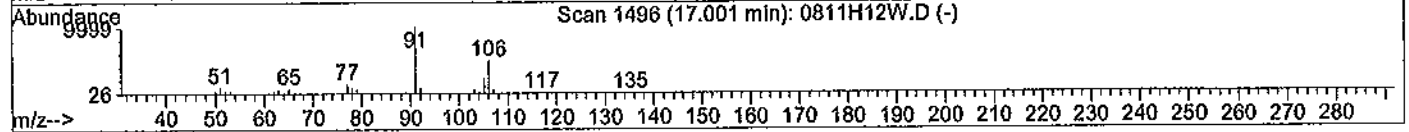
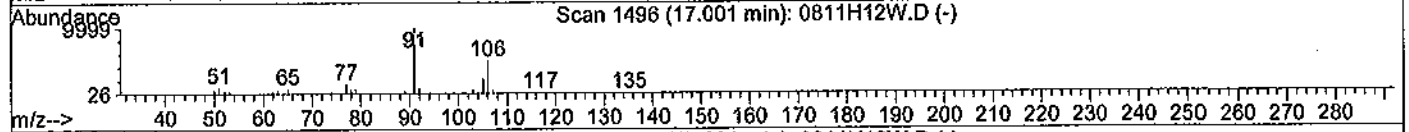
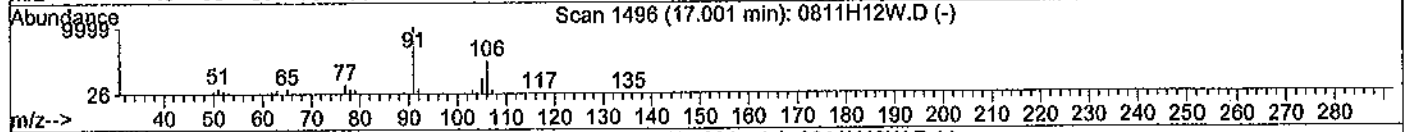
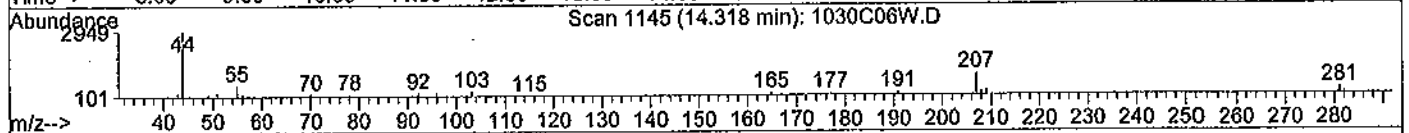
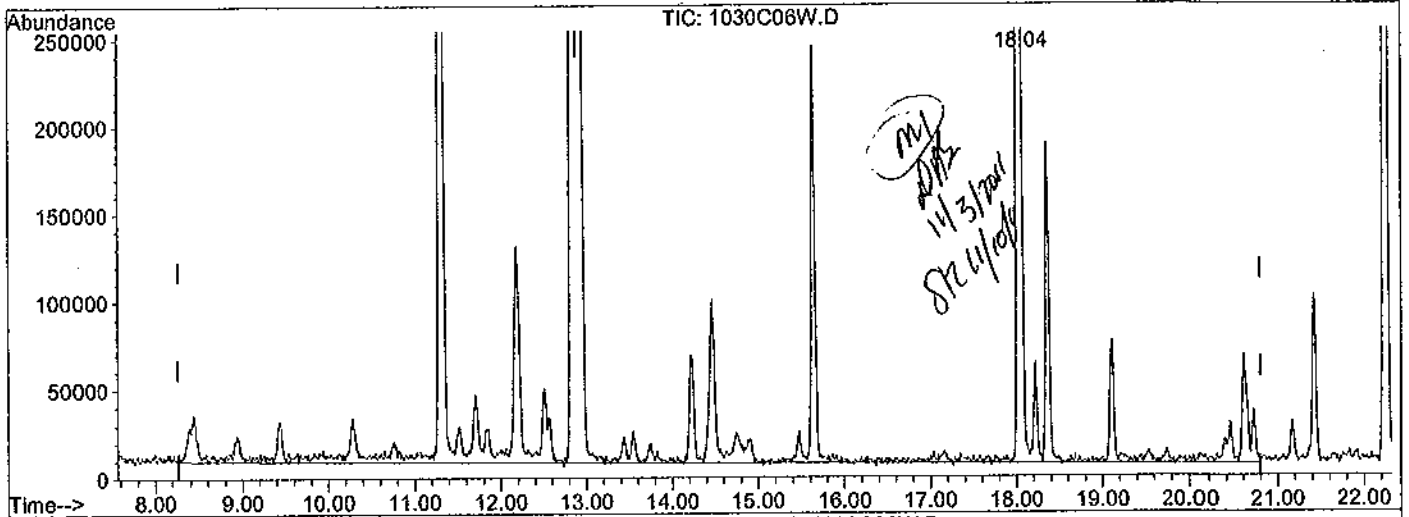
(2) Gasoline (TMHB)		
14.31min	58.1426ppb m	
response	14188741	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.68#
0.00	0.00	2.00#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C06W.D
 Acq On : 30 Oct 11 17:00
 Sample : Vol Std 10-30-11@50ug/L
 Misc : Water 10mLw/ IS:10-30-11
 Quant Time: Nov 3 10:30 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration



TIC: 1030C06W.D

(2) Gasoline (TMHB)		
18.04min	71.7166ppb m	
response	17501250	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.55#
0.00	0.00	1.62#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C111030\1030C07W.D Vial: 1
 Acq On : 30 Oct 11 17:43 Operator: STC
 Sample : Vol Std 10-30-11@100ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 10:38 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:32:18 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1049972	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.04	TIC	1057194	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.24	TIC	1054110	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	18.04	TIC	21647604m	90.78273	ppb	100

Quantitation Report

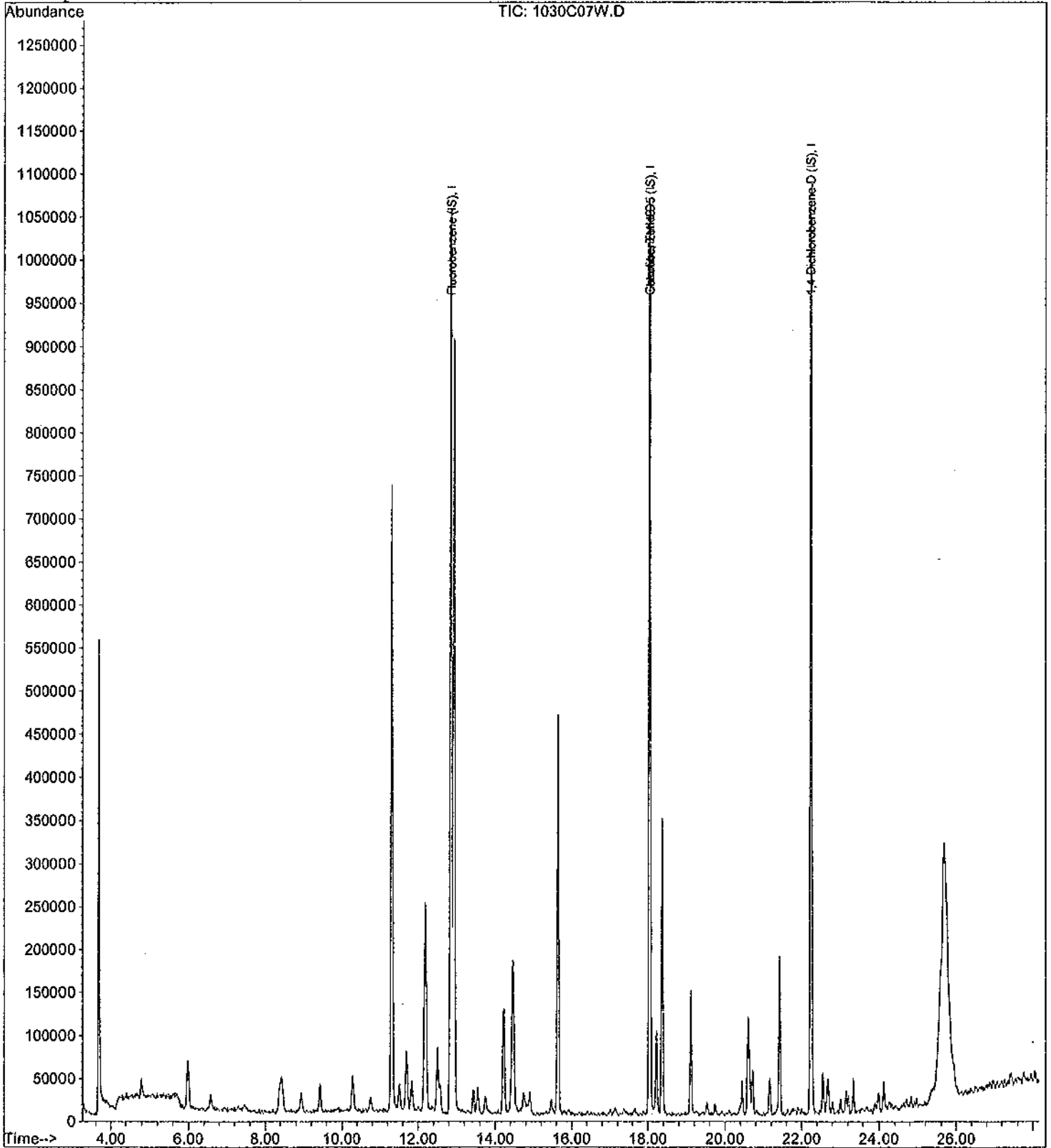
Data File : M:\CHICO\DATA\C111030\1030C07W.D
Acq On : 30 Oct 11 17:43
Sample : Vol Std 10-30-11@100ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 10:38 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration

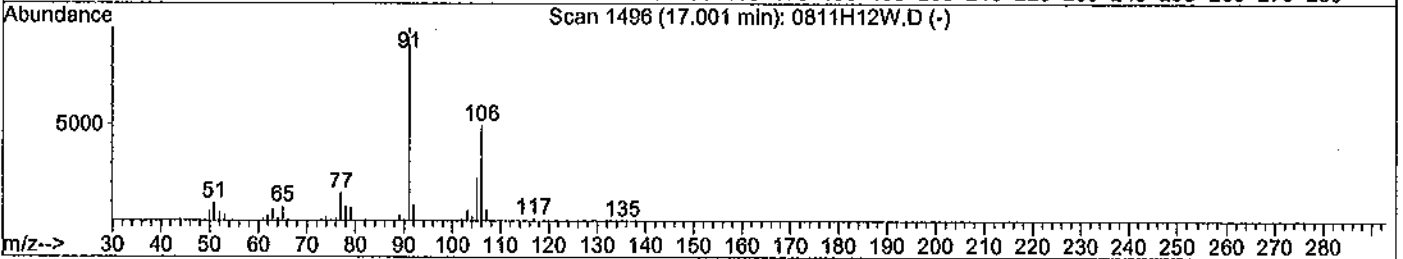
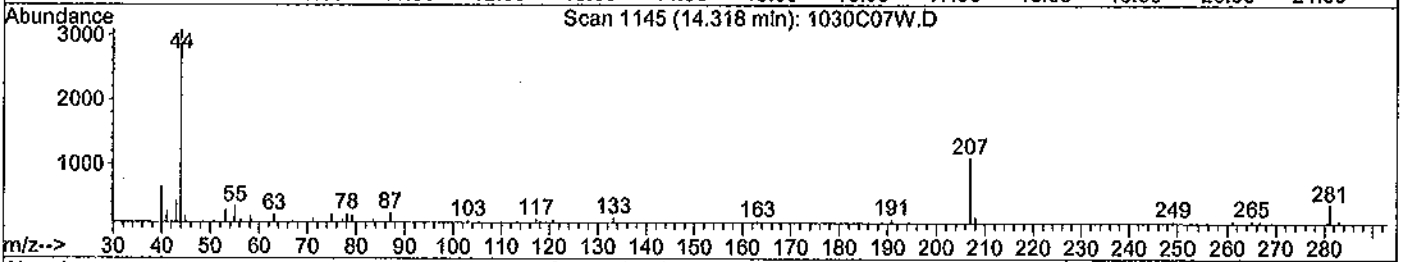
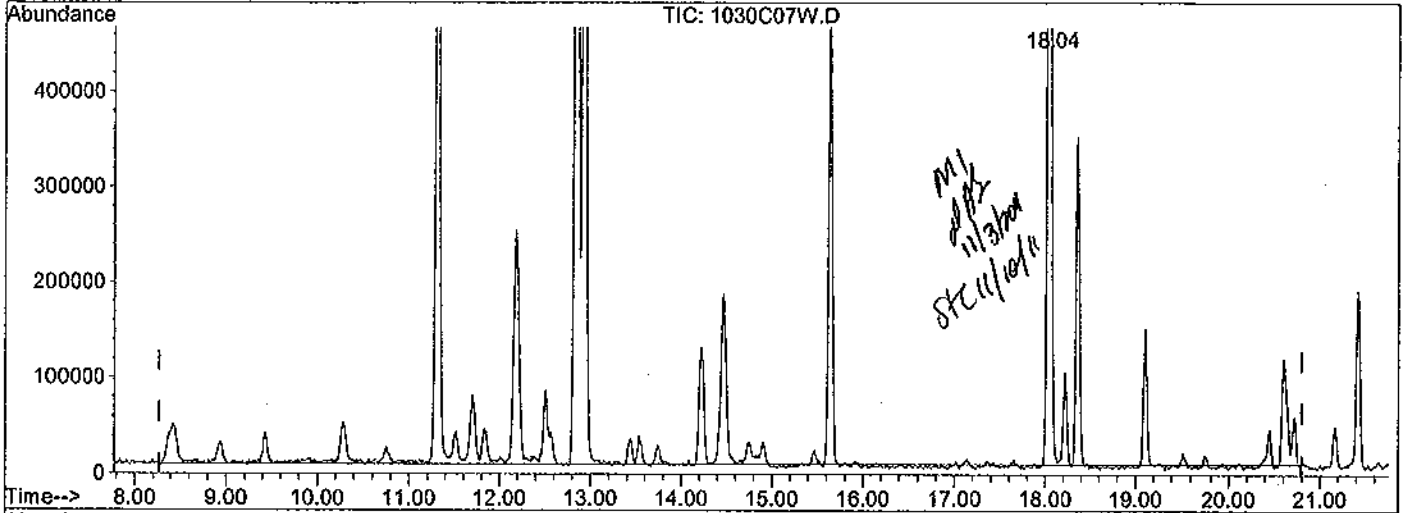


Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C07W.D
 Acq On : 30 Oct 11 17:43
 Sample : Vol Std 10-30-11@100ug/L
 Misc : Water 10mLw/ IS:10-30-11
 Quant Time: Oct 31 9:32 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration



TIC: 1030C07W.D

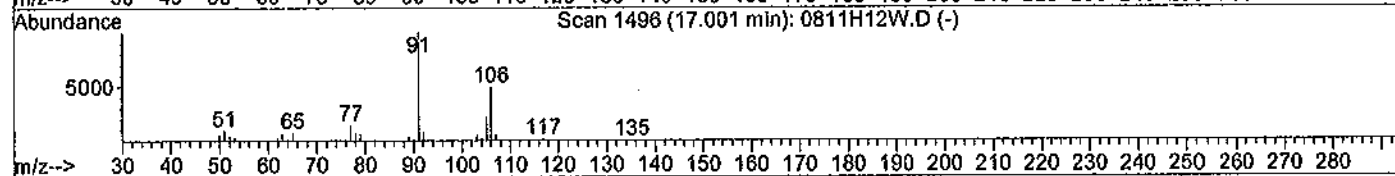
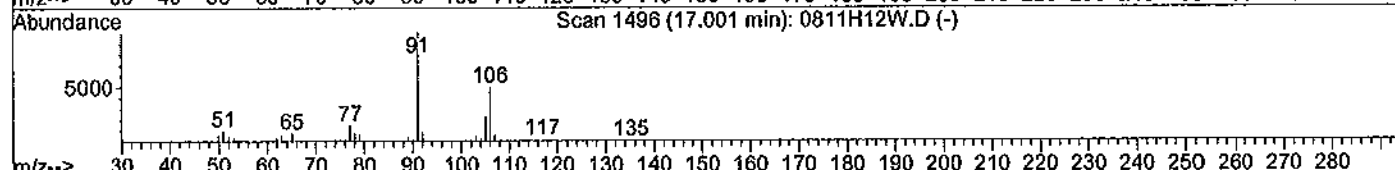
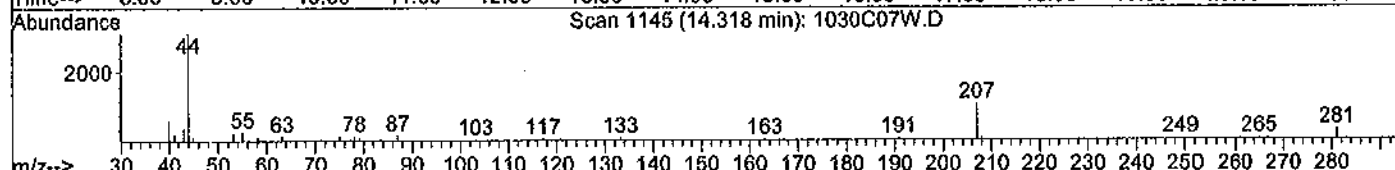
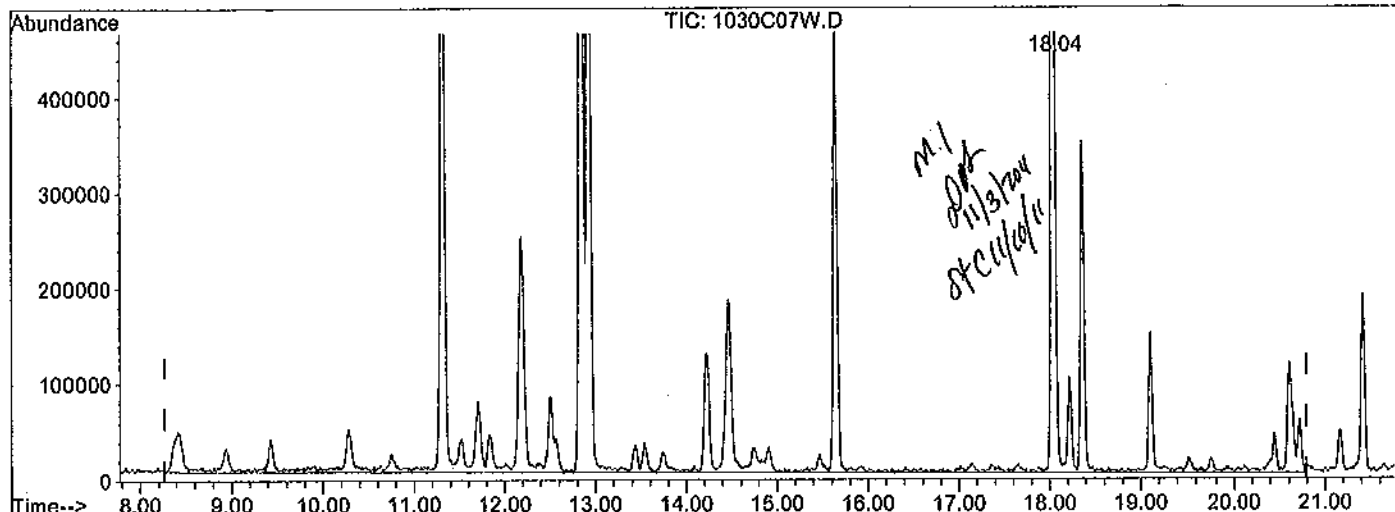
(2) Gasoline (TMHB)		
14.31min	75.4746ppb m	
response	17997299	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.55#
0.00	0.00	1.56#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C07W.D
 Acq On : 30 Oct 11 17:43
 Sample : Vol Std 10-30-11@100ug/L
 Misc : Water 10mLw/ IS:10-30-11
 Quant Time: Nov 3 10:38 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration



TIC: 1030C07W.D

(2) Gasoline (TMHB)		
18.04min	90.7827ppb m	
response	21647604	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.45#
0.00	0.00	1.30#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C111030\1030C08W.D Vial: 1
 Acq On : 30 Oct 11 18:26 Operator: STC
 Sample : Vol Std 10-30-11@300ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 10:40 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:32:18 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	TIC	1085666	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.04	TIC	1080398	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.24	TIC	1118273	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	15.64	TIC	39740510m	161.17894	ppb	100

Quantitation Report

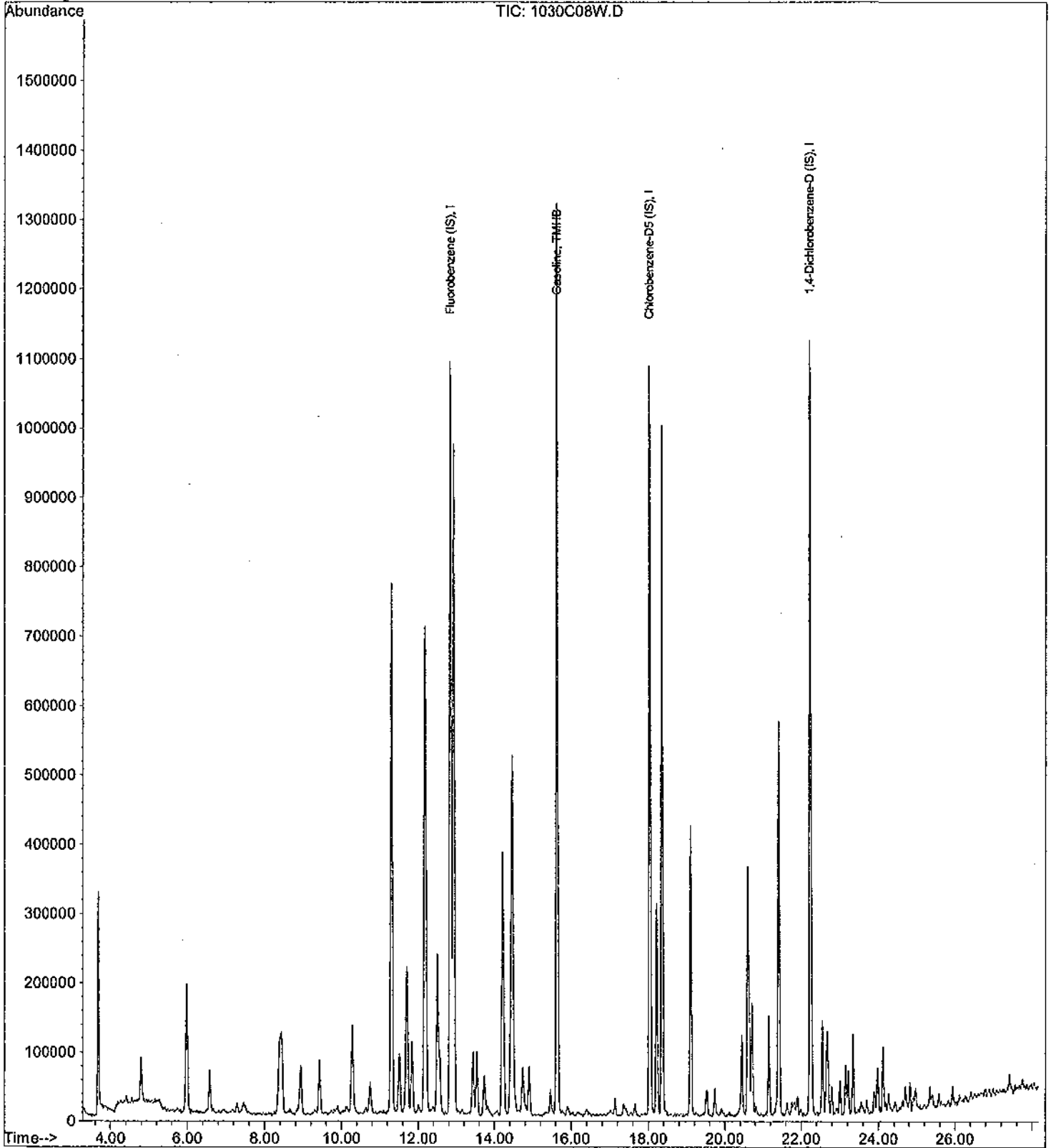
Data File : M:\CHICO\DATA\C111030\1030C08W.D
Acq On : 30 Oct 11 18:26
Sample : Vol Std 10-30-11@300ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 10:40 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



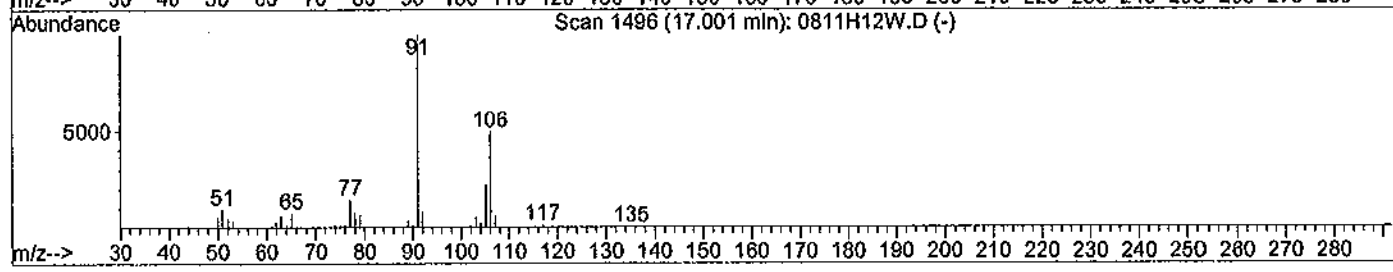
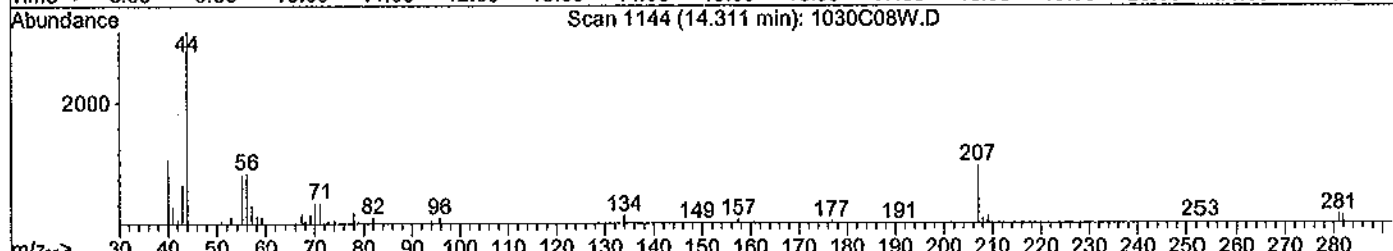
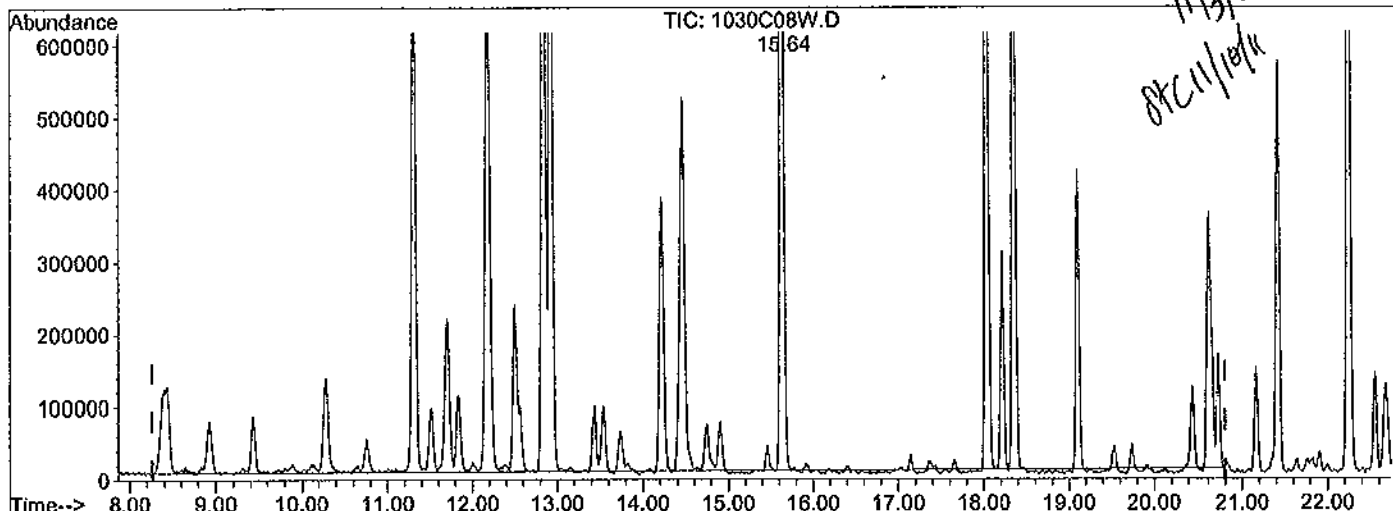
Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C08W.D
 Acq On : 30 Oct 11 18:26
 Sample : Vol Std 10-30-11@300ug/L
 Misc : Water 10mLw/ IS:10-30-11
 Quant Time: Oct 31 9:32 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration

M1
2/13
11/13/2011
STC 11/10/11



TIC: 1030C08W.D

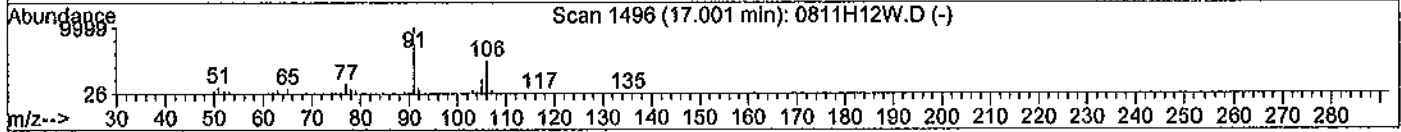
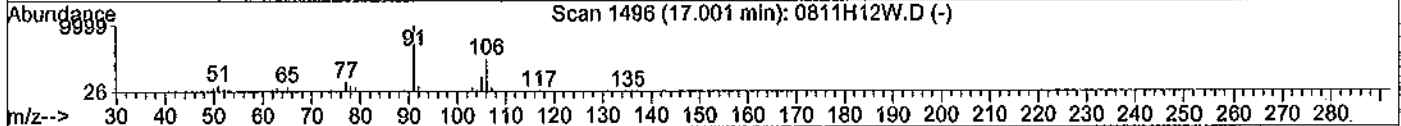
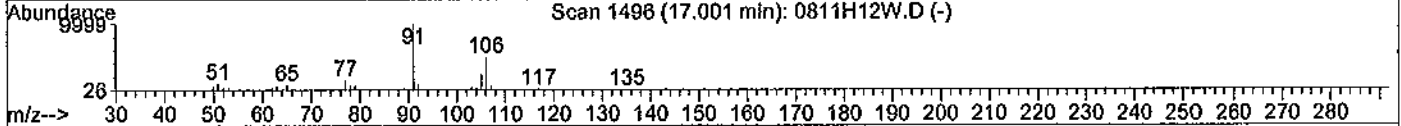
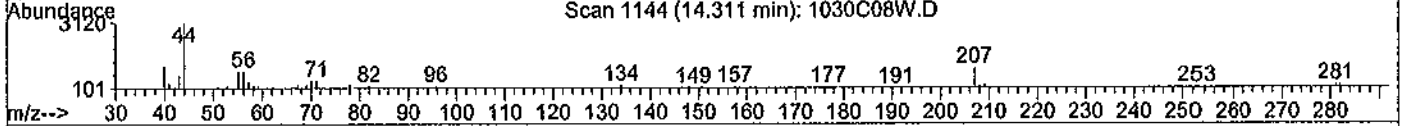
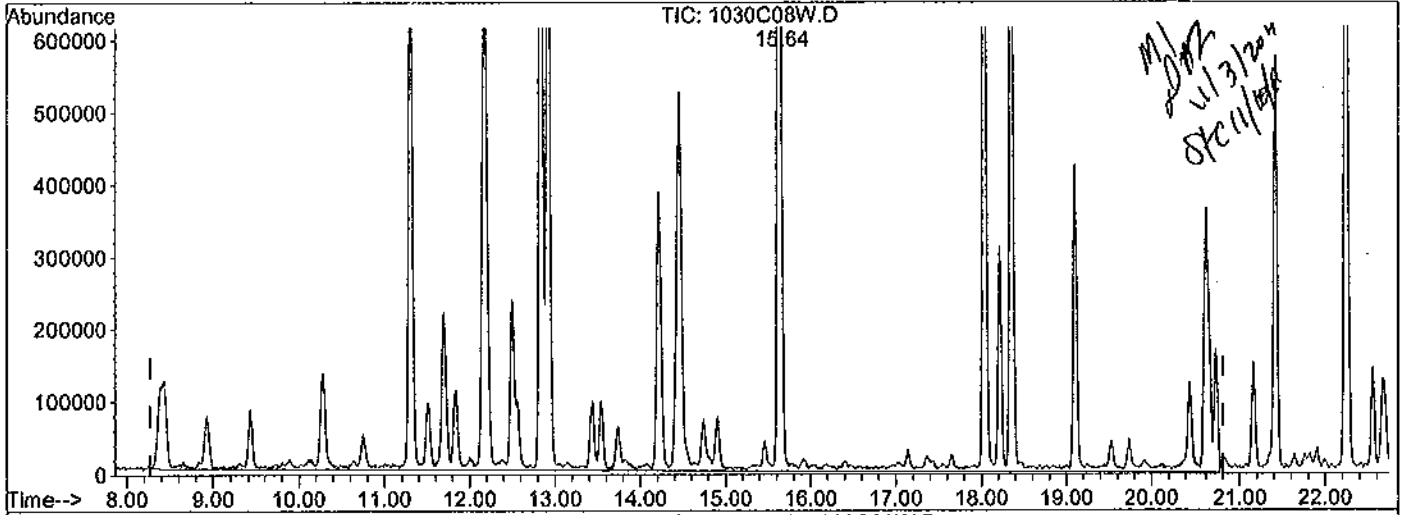
(2) Gasoline (TMHB)		
14.31min	137.6327ppb m	
response	33934923	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.30#
0.00	0.00	0.88#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C08W.D
 Acq On : 30 Oct 11 18:26
 Sample : Vol Std 10-30-11@300ug/L
 Misc : Water 10mLw/ IS:10-30-11
 Quant Time: Nov 3 10:40 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration



TIC: 1030C08W.D

(2) Gasoline (TMHB)		
15.64min	161.1789ppb	m
response	39740510	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.25#
0.00	0.00	0.75#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C111030\1030C09W.D Vial: 1
 Acq On : 30 Oct 11 19:09 Operator: STC
 Sample : Vol Std 10-30-11@600ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 10:41 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:32:18 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	TIC	1104080	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.04	TIC	1114811	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.25	TIC	1175050	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	15.64	TIC	65808275m	262.45271	ppb	100

Quantitation Report

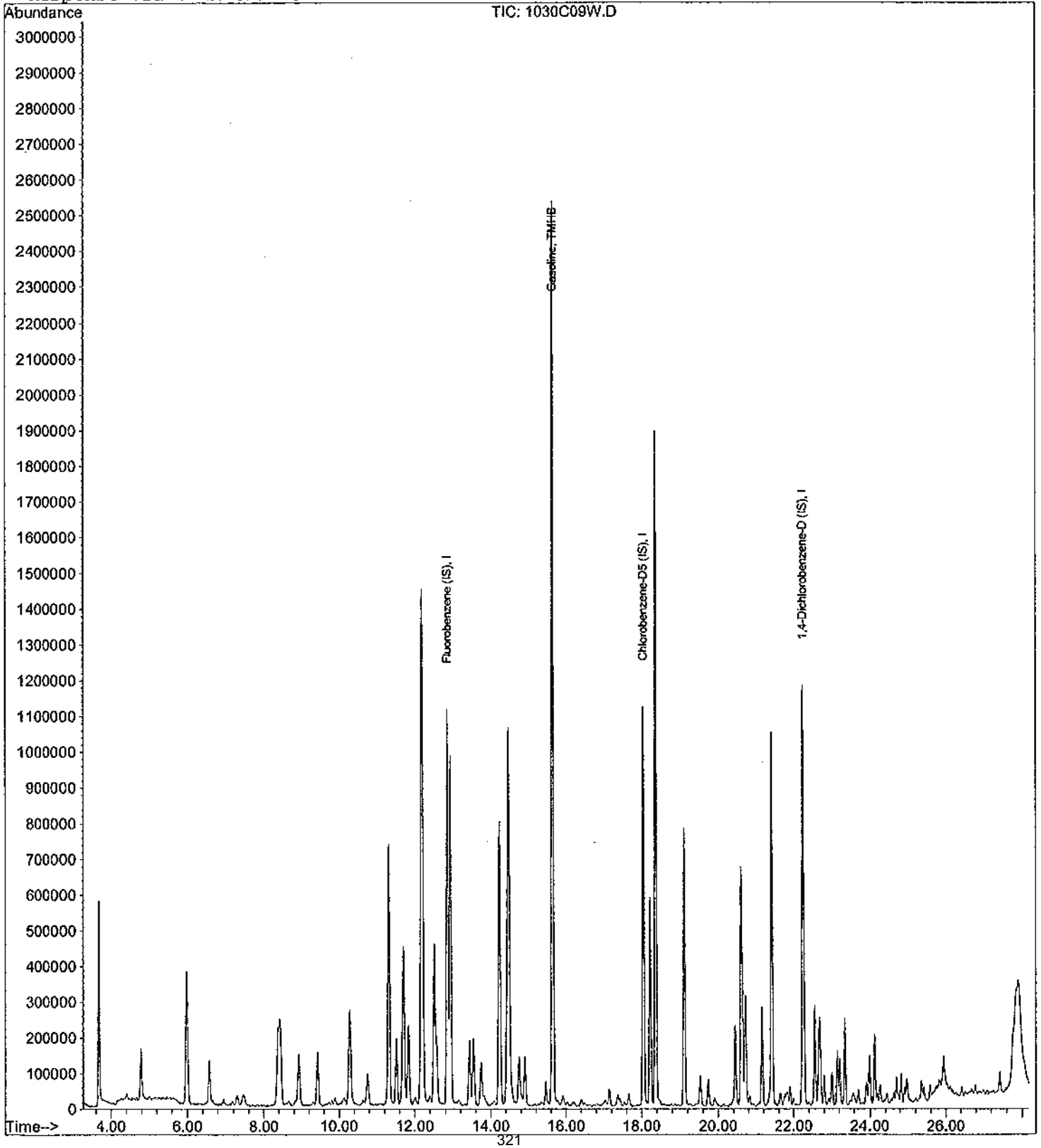
Data File : M:\CHICO\DATA\C111030\1030C09W.D
Acq On : 30 Oct 11 19:09
Sample : Vol Std 10-30-11@600ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 10:41 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration

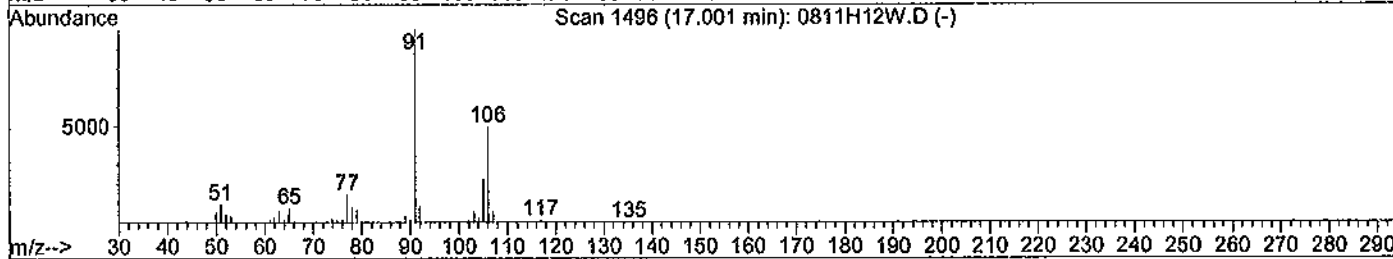
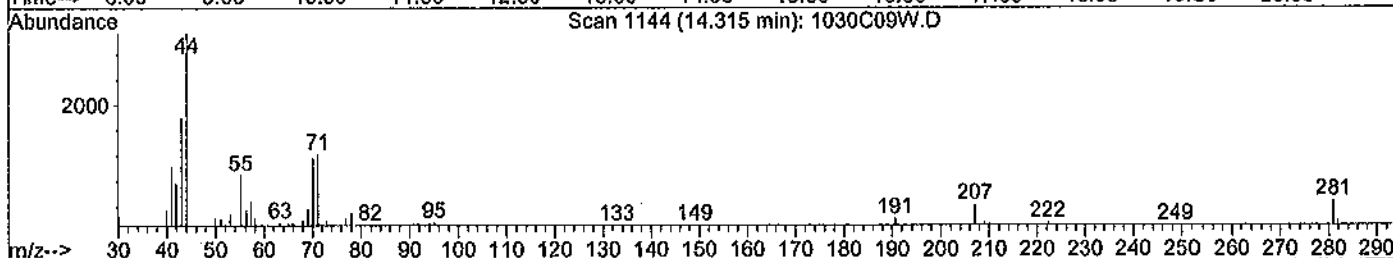
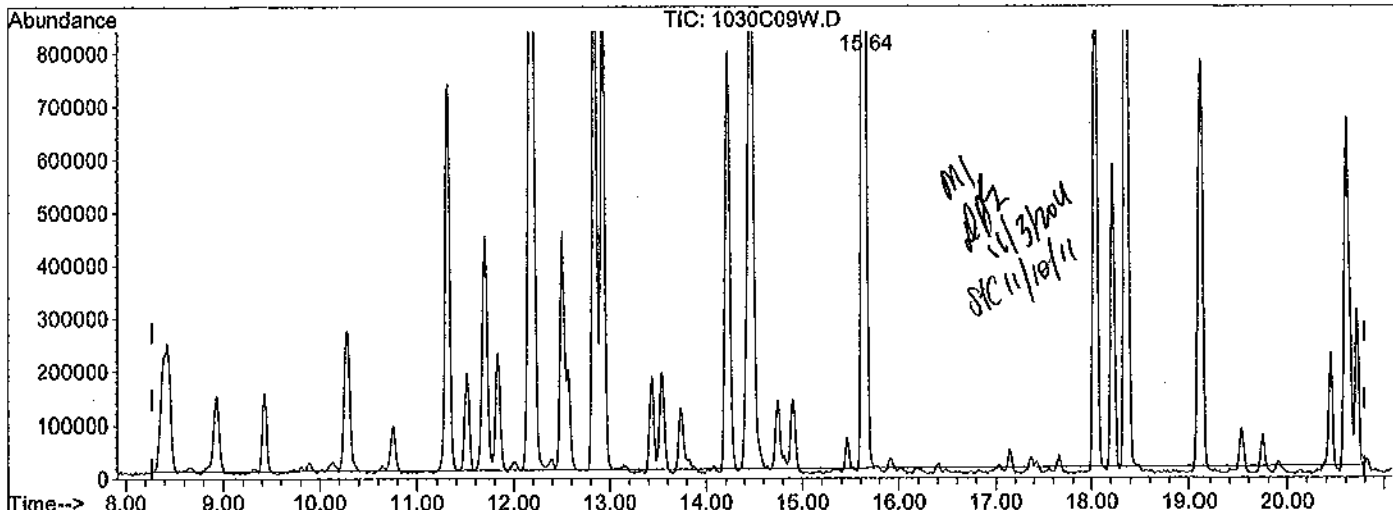


Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C09W.D
 Acq On : 30 Oct 11 19:09
 Sample : Vol Std 10-30-11@600ug/L
 Misc : Water 10mLw/ IS:10-30-11
 Quant Time: Oct 31 9:32 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration



TIC: 1030C09W.D

(2) Gasoline (TMHB)

14.31min 231.1564ppb m

response 57960938

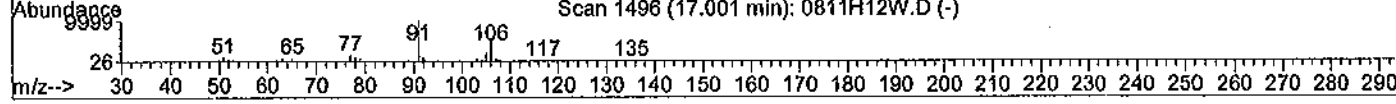
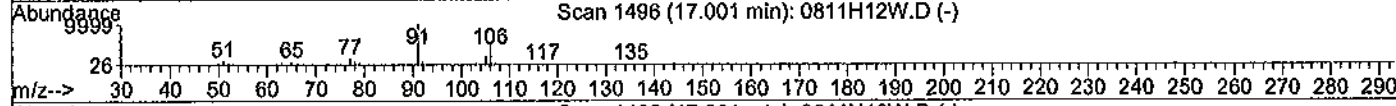
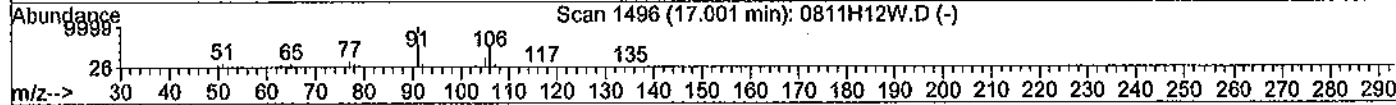
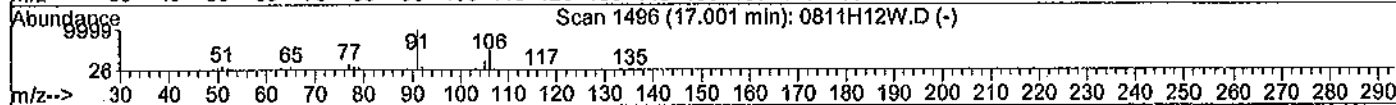
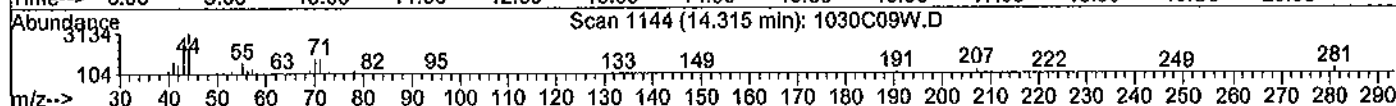
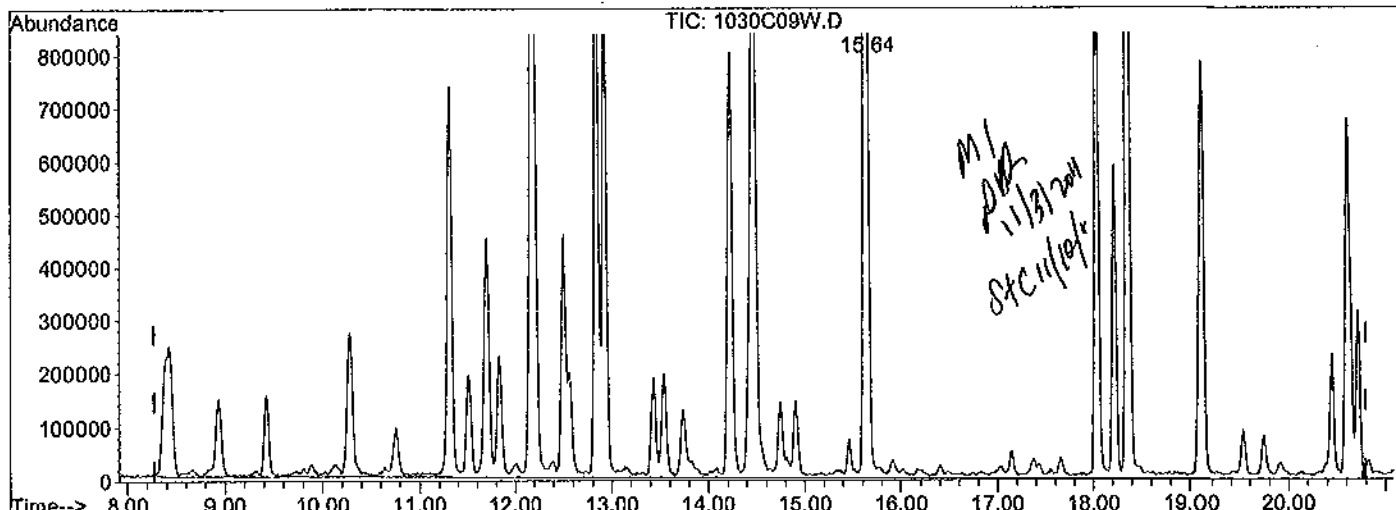
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.18#
0.00	0.00	0.51#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C09W.D
 Acq On : 30 Oct 11 19:09
 Sample : Vol Std 10-30-11@600ug/L
 Misc : Water 10mLw/ IS:10-30-11
 Quant Time: Nov 3 10:41 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration



TIC: 1030C09W.D

(2) Gasoline (TMHB)		
15.64min	262.4527ppb	m
response	65808275	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.16#
0.00	0.00	0.45#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C111030\1030C10W.D Vial: 1
 Acq On : 30 Oct 11 19:52 Operator: STC
 Sample : Vol Std 10-30-11@800ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 10:42 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:32:18 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	TIC	1129347	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.03	TIC	1159453	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.24	TIC	1268278	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	15.63	TIC	84666447m	330.10723	ppb	100

Quantitation Report

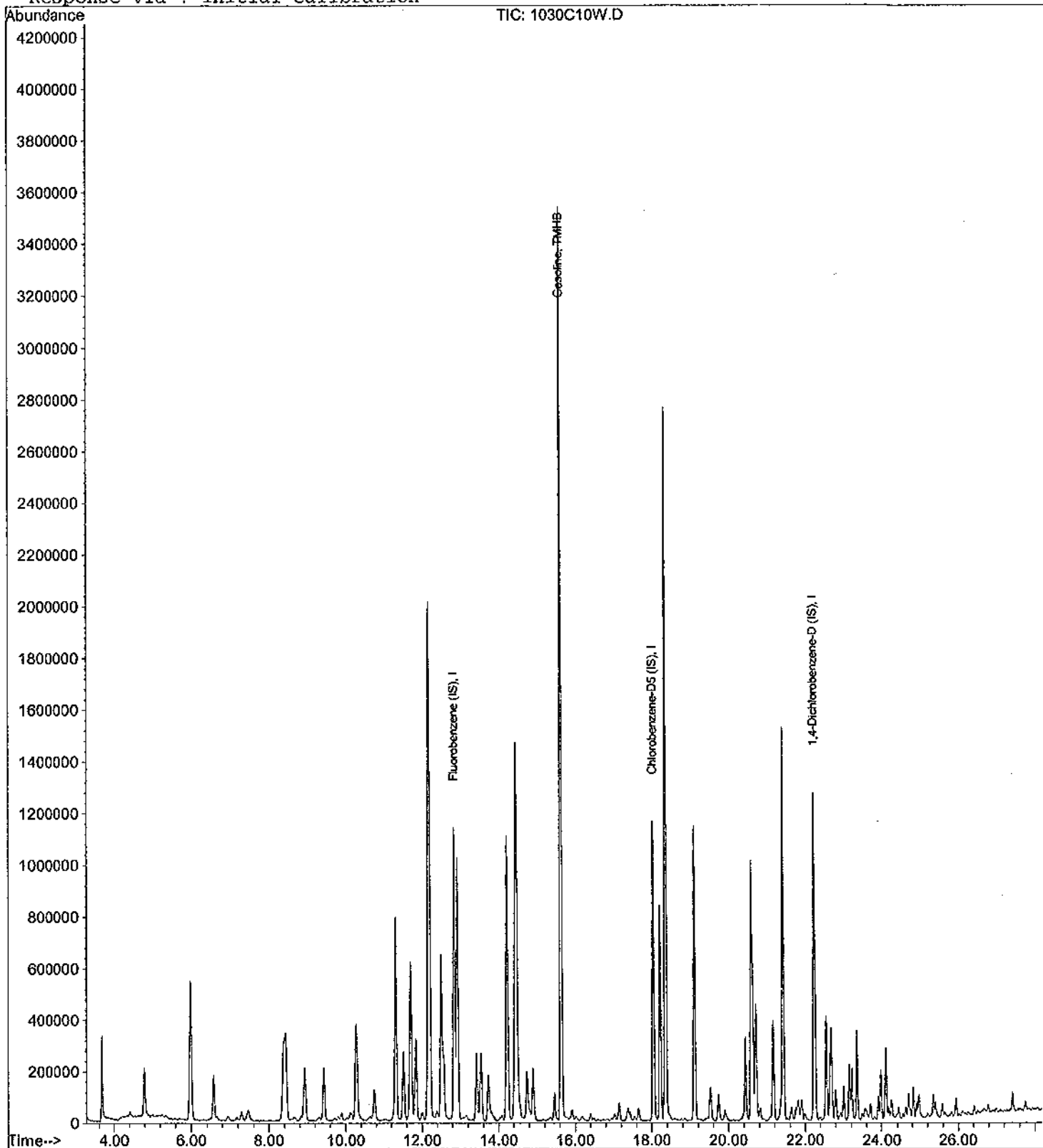
Data File : M:\CHICO\DATA\C111030\1030C10W.D
Acq On : 30 Oct 11 19:52
Sample : Vol Std 10-30-11@800ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 10:42 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration

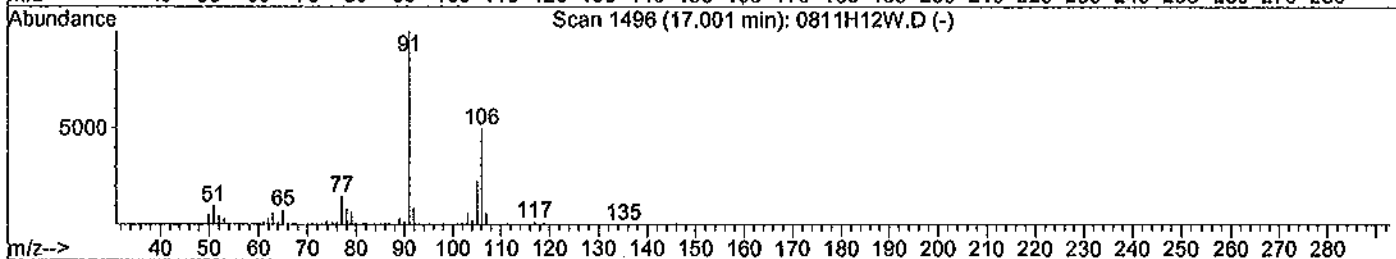
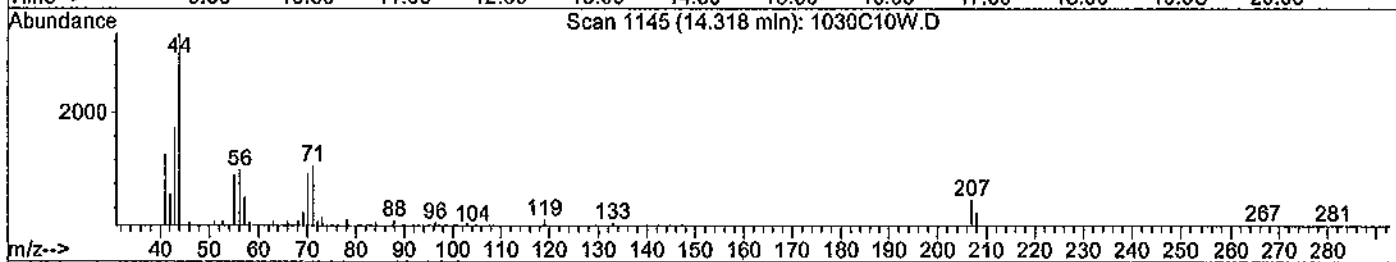
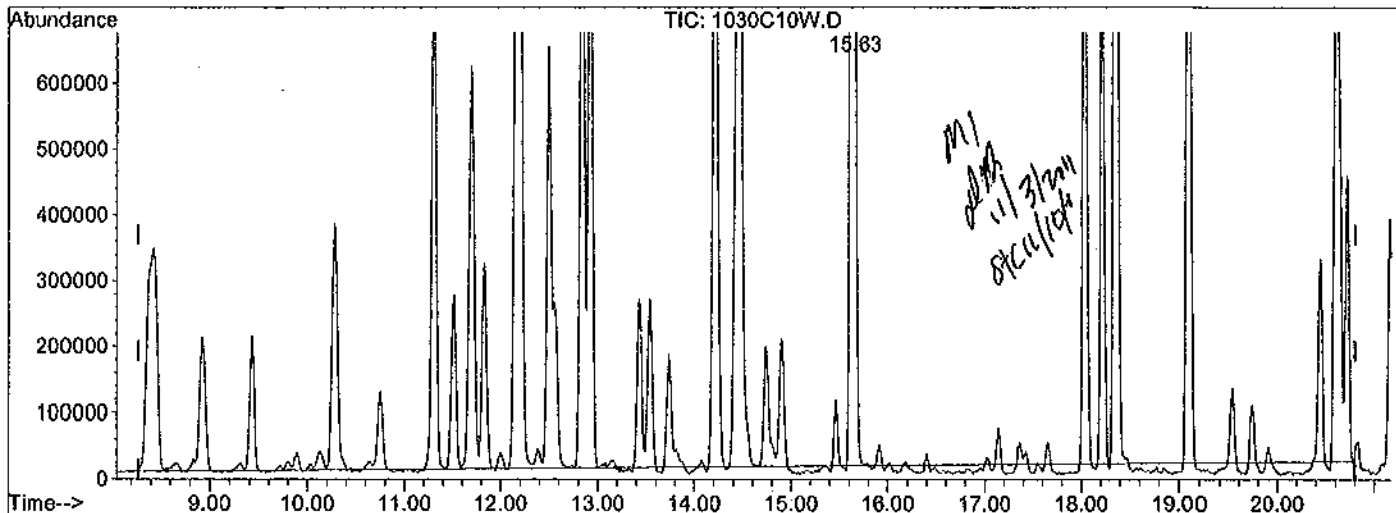


Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C10W.D
 Acq On : 30 Oct 11 19:52
 Sample : Vol Std 10-30-11@800ug/L
 Misc : Water 10mLw/ IS:10-30-11
 Quant Time: Oct 31 9:32 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration



TIC: 1030C10W.D

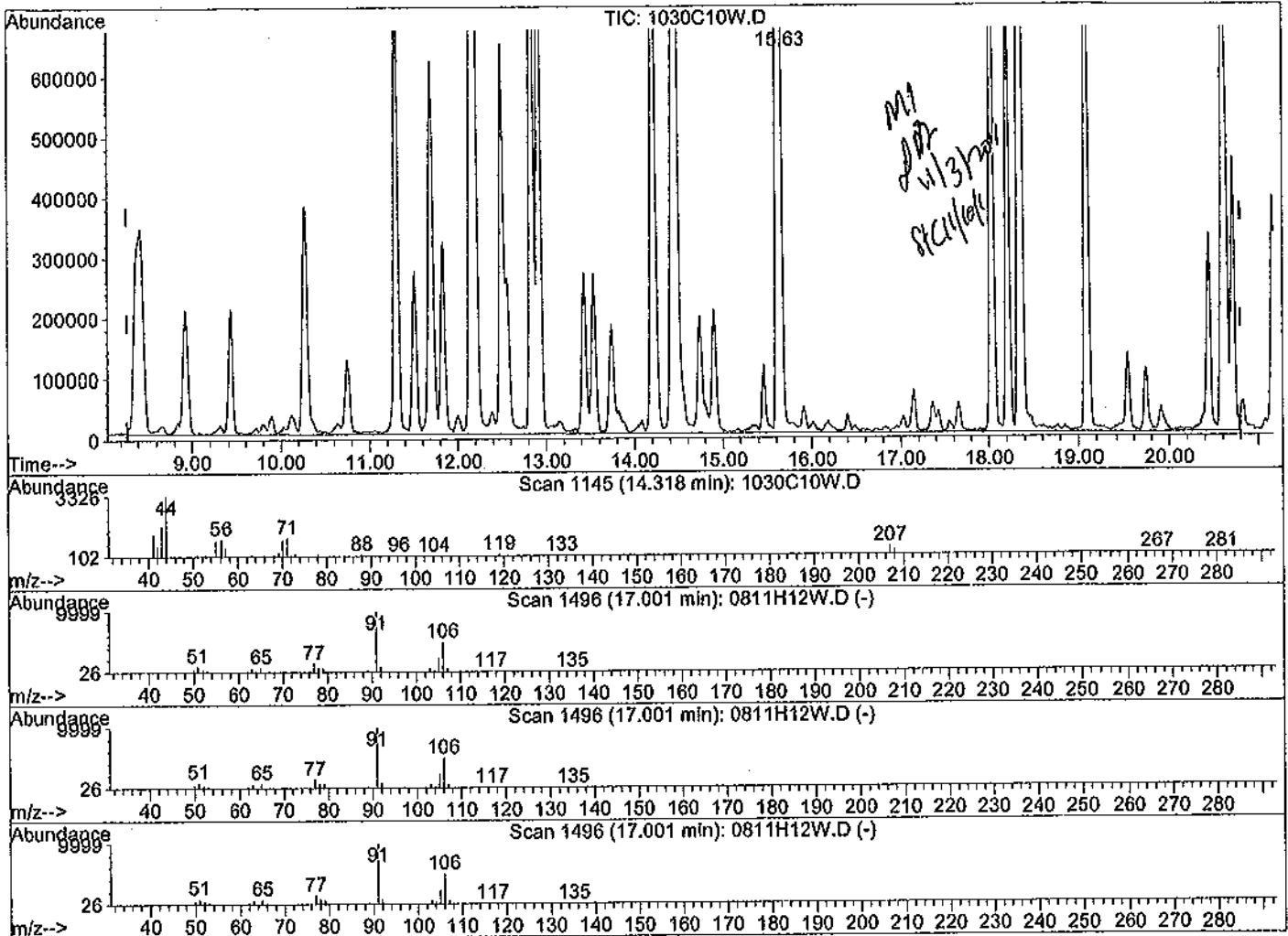
(2) Gasoline (TMHB)		
14.31min	303.9125ppb m	
response	77947975	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.13#
0.00	0.00	0.41#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C10W.D
 Acq On : 30 Oct 11 19:52
 Sample : Vol Std 10-30-11@800ug/L
 Misc : Water 10mLw/ IS:10-30-11
 Quant Time: Nov 3 10:42 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration



TIC: 1030C10W.D

(2) Gasoline (TMHB)		
15.63min	330.1072ppb	m
response	84666447	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.12#
0.00	0.00	0.38#
0.00	0.00	0.00

Data File : M:\CHICO\DATA\C111030\1030C11W.D Vial: 1
 Acq On : 30 Oct 11 20:35 Operator: STC
 Sample : Vol Std 10-30-11@1000ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 10:43 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:32:18 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	TIC	1162372	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.03	TIC	1207961	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.24	TIC	1354742	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	15.63	TIC	105748641m	400.59060	ppb	100

Quantitation Report

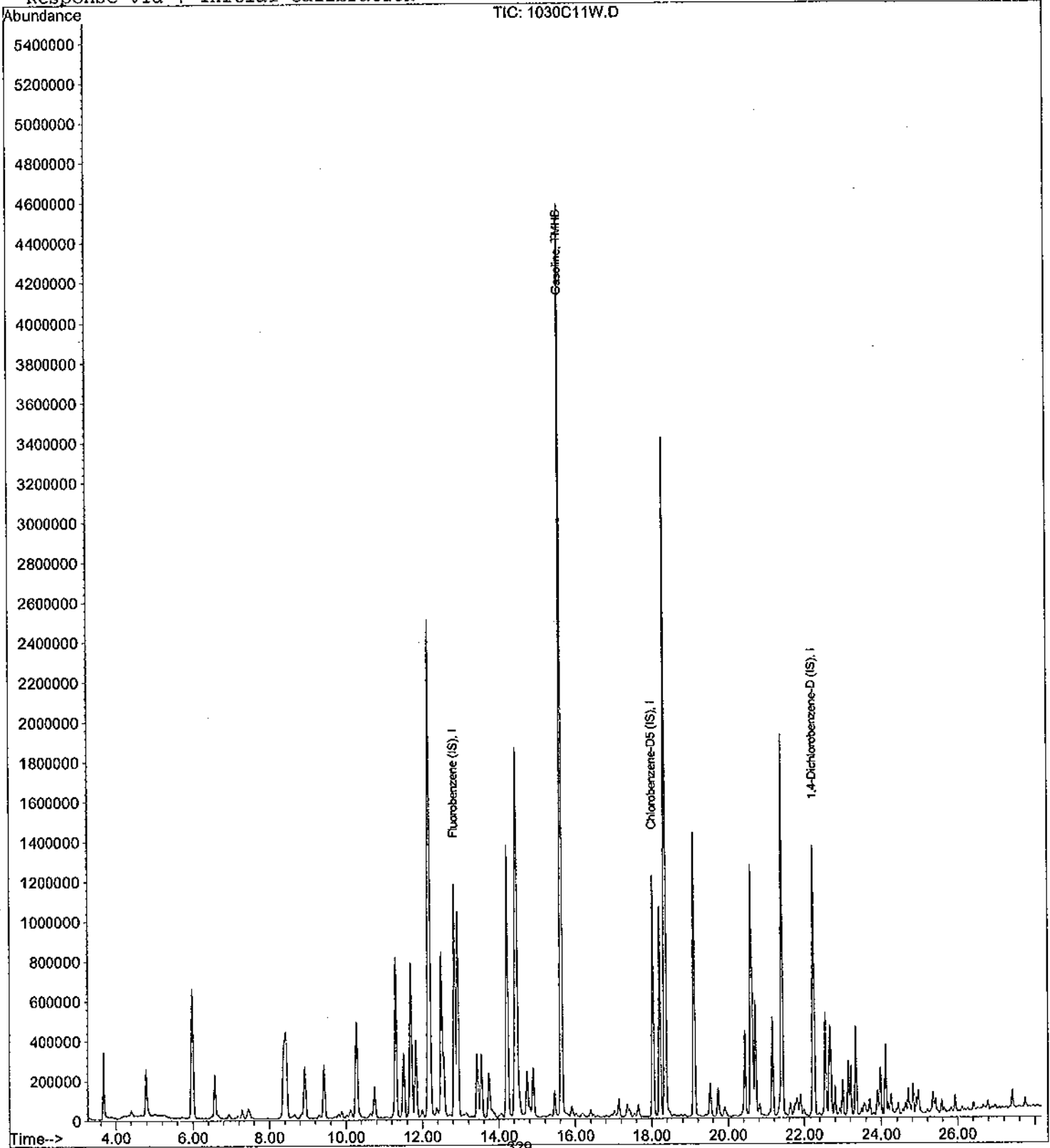
Data File : M:\CHICO\DATA\C111030\1030C11W.D
Acq On : 30 Oct 11 20:35
Sample : Vol Std 10-30-11@1000ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 10:43 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration

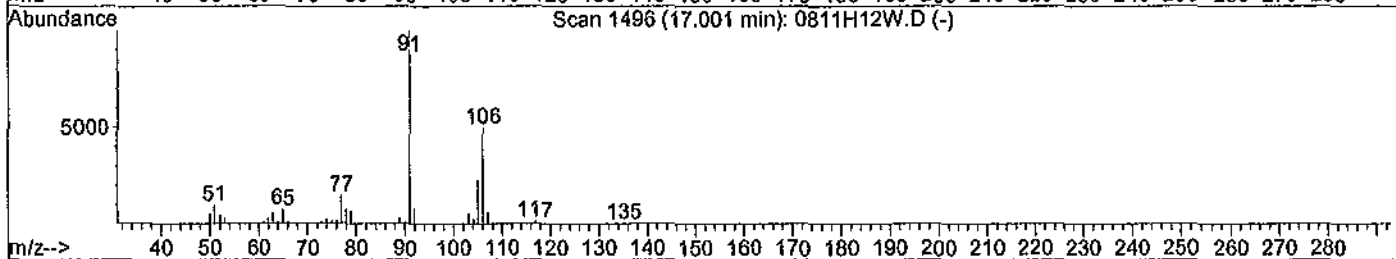
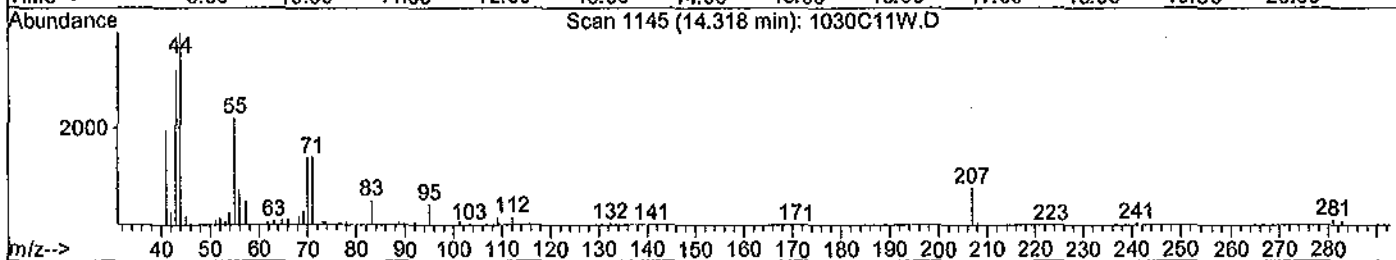
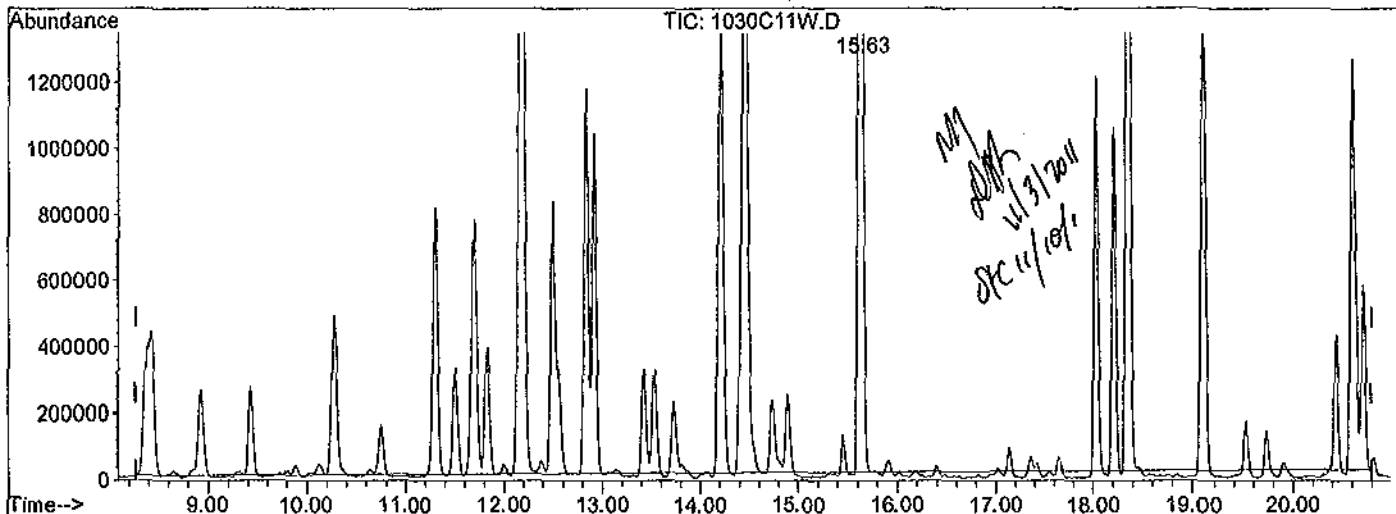


Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C11W.D
 Acq On : 30 Oct 11 20:35
 Sample : Vol Std 10-30-11@1000ug/L
 Misc : Water 10mLw/ IS:10-30-11
 Quant Time: Oct 31 9:33 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration



TIC: 1030C11W.D

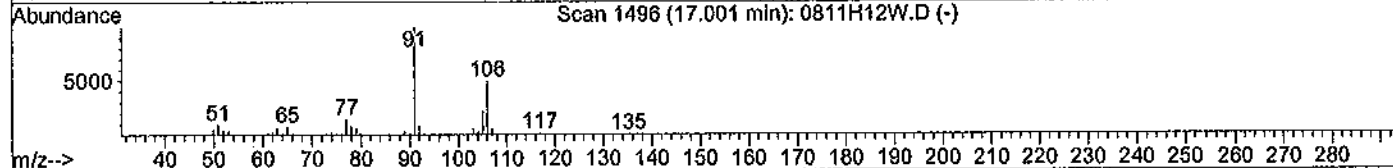
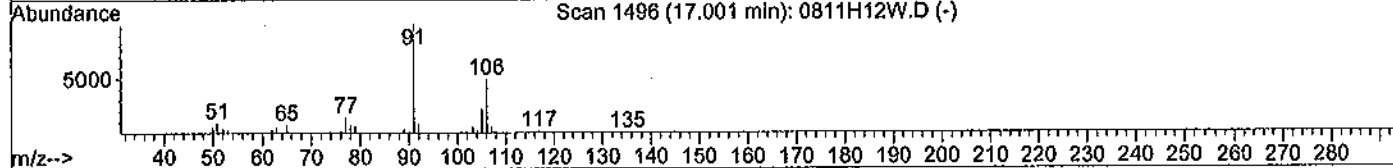
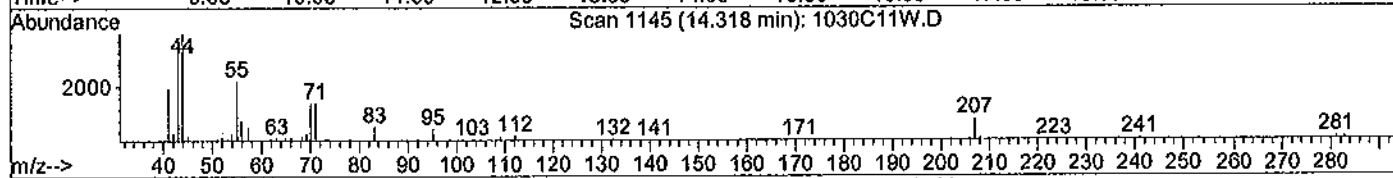
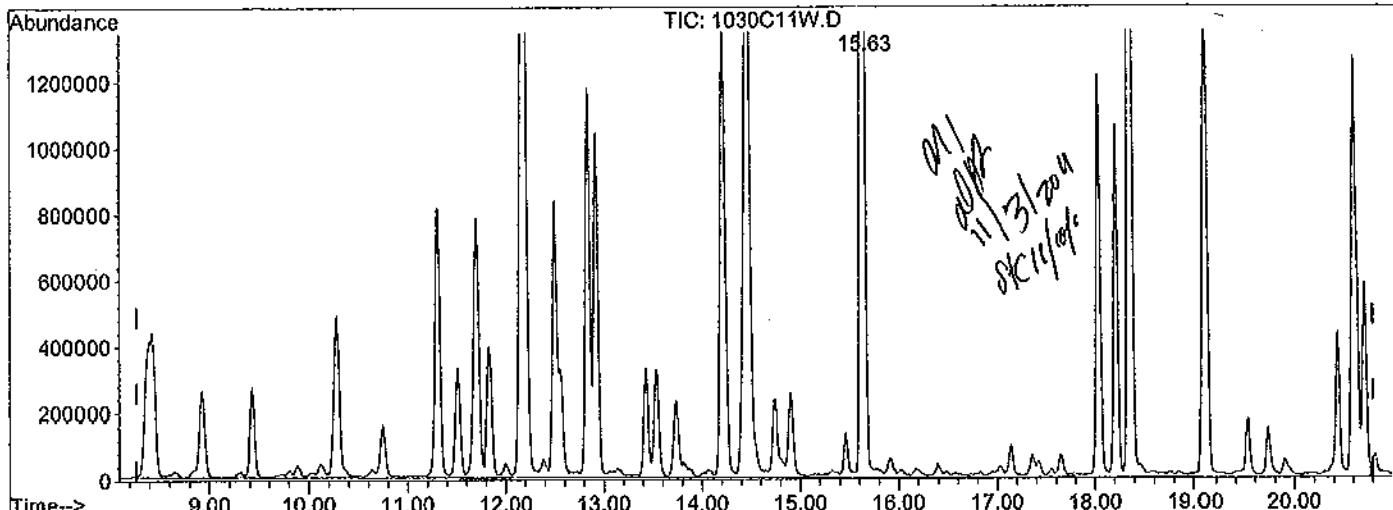
(2) Gasoline (TMHB)		
14.31min	368.6230ppb m	
response	97309775	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.11#
0.00	0.00	0.34#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C11W.D
 Acq On : 30 Oct 11 20:35
 Sample : Vol Std 10-30-11@1000ug/L
 Misc : Water 10mLw/ IS:10-30-11
 Quant Time: Nov 3 10:43 2011

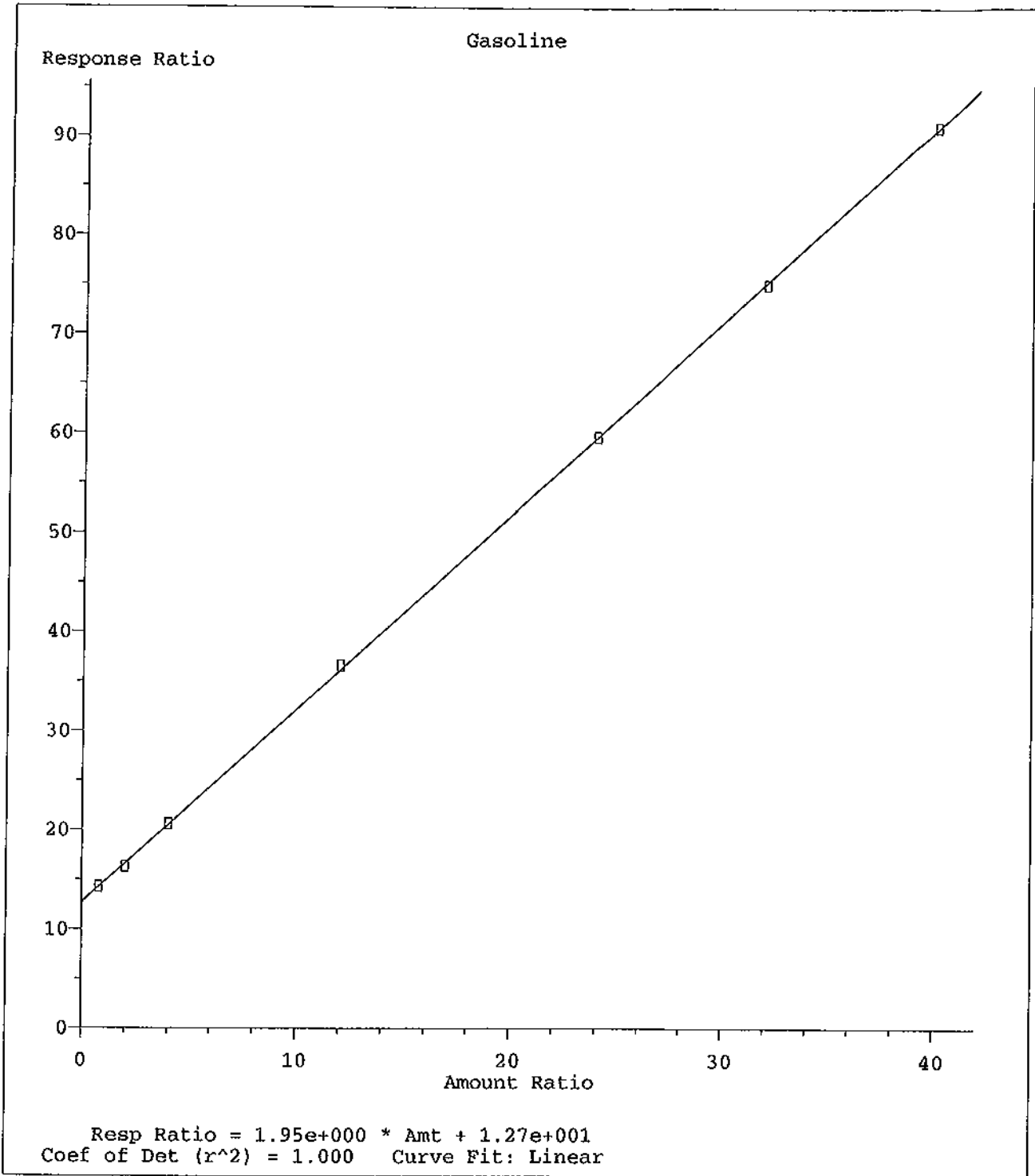
Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:35:31 2011
 Response via : Multiple Level Calibration



TIC: 1030C11W.D

(2) Gasoline (TMHB)		
15.63min	400.5906ppb m	
response	105748641	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.10#
0.00	0.00	0.31#
0.00	0.00	0.00



Method Name: M:\CHICO\DATA\C111030\CGAS.M
 Calibration Table Last Updated: Thu Nov 03 10:47:02 2011

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 10/31/2011
Instrument: Chico
Initial Cal. Date: 10/30/2011
Data File: 1030C29W.D

	Compound	MEAN	CCRF	%D	%Drift	
1	I Fluorobenzene (IS)	ISTD			I	
2	TMHB Gasoline	6.897	3.226	46	TMHBL	11
3	I Chlorobenzene-D5 (IS)	ISTD			I	
4	I 1,4-Dichlorobenzene-D (IS)	ISTD			I	
5						
6						
7						
8						
9						
10						
11						
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32						
33						
34						
35						
36						
37						
38						
39						
40	Average			45.0		

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C111030\1030C29W.D Vial: 1
 Acq On : 31 Oct 11 9:31 Operator: STC
 Sample : GAS 300ug/L (SS) Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 3 10:51 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	TIC	1211423	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.03	TIC	1191079	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.24	TIC	1217266	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	15.63	TIC	46900368m	332.66187	ppb	100

Quantitation Report

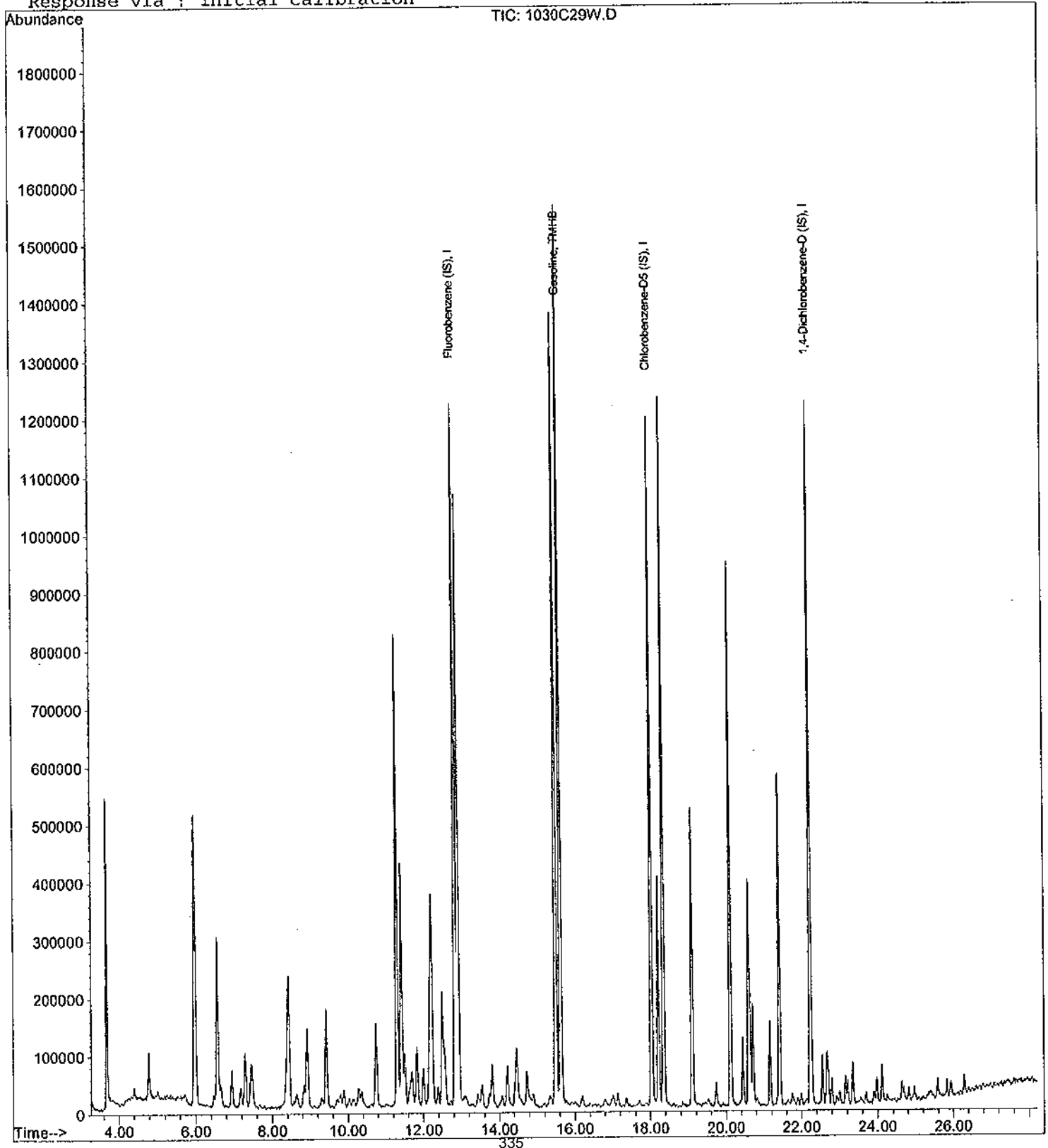
Data File : M:\CHICO\DATA\C111030\1030C29W.D
Acq On : 31 Oct 11 9:31
Sample : GAS 300ug/L (SS)
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 10:51 2011

Quant Results File: CGAS.RES

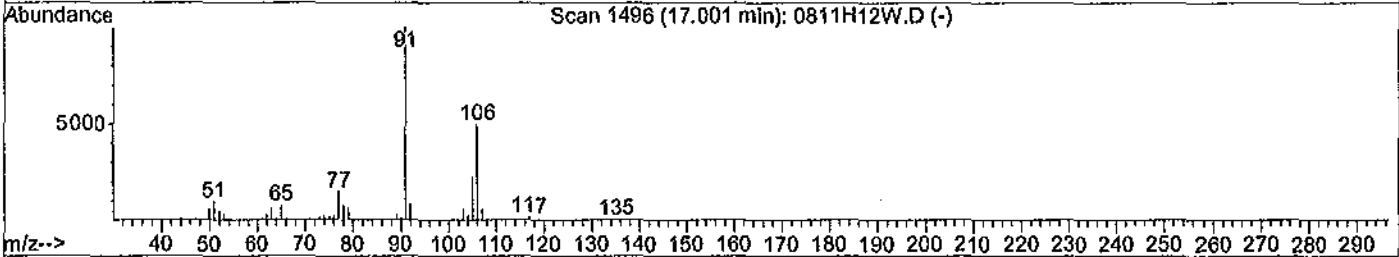
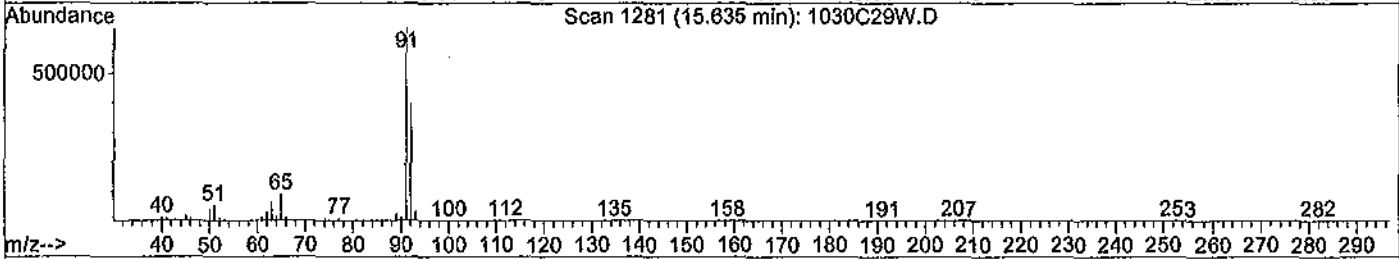
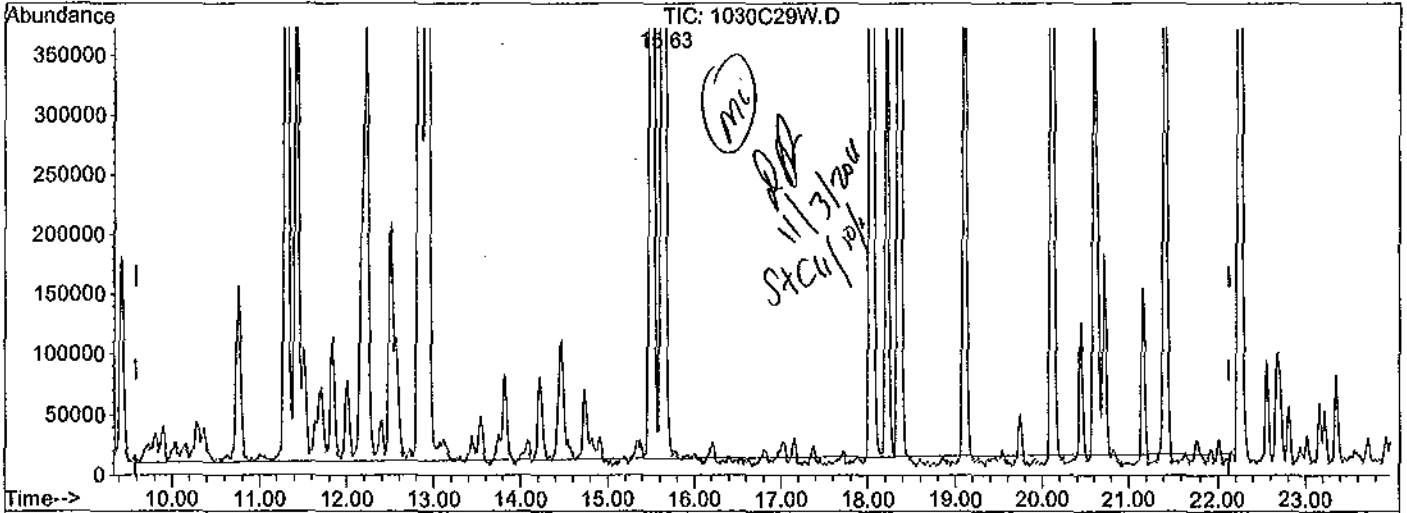
Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C29W.D Vial: 1
 Acq On : 31 Oct 11 9:31 Operator: STC
 Sample : GAS 300ug/L (SS) Inst : Chico
 Misc : Water 10mL/ IS&S:10-30/10-26-11 Multiplr: 1.00
 Quant Time: Nov 3 10:47 2011 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Multiple Level Calibration



TIC: 1030C29W.D

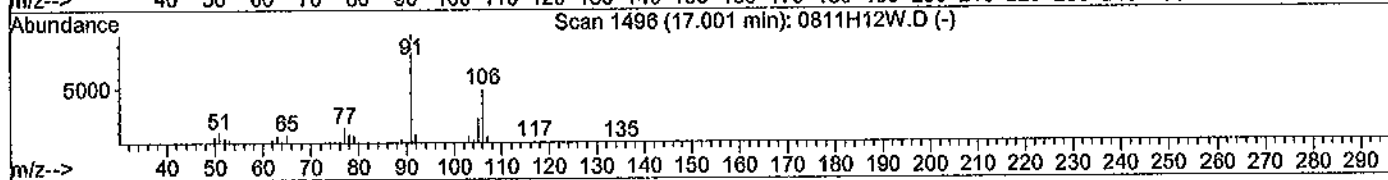
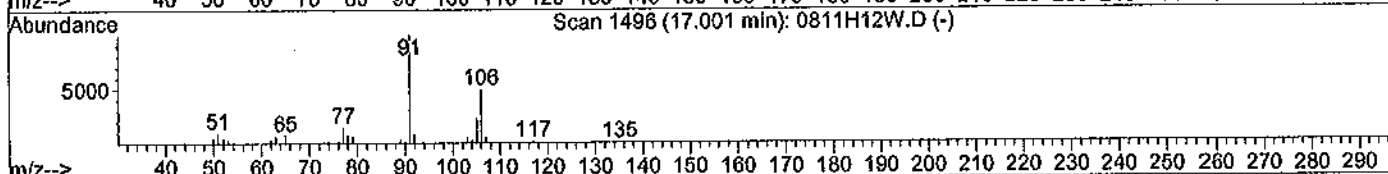
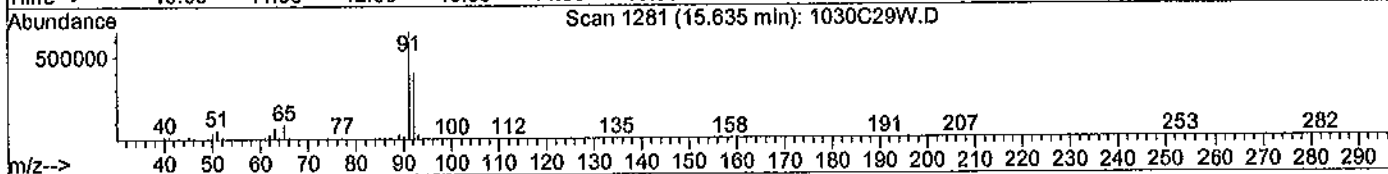
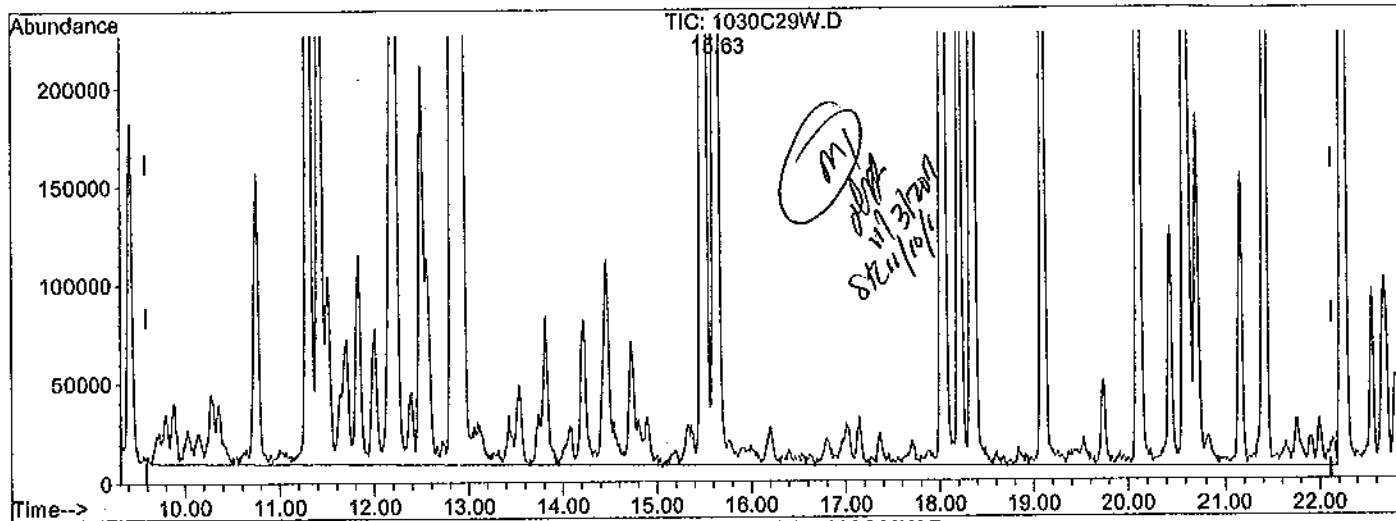
(2) Gasoline (TMHB)		
15.64min	275.5469ppb	m
response	41492142	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.26#
0.00	0.00	0.78#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1030C29W.D
 Acq On : 31 Oct 11 9:31
 Sample : GAS 300ug/L (SS)
 Misc : Water 10mLw/ IS&S:10-30/10-26-11
 Quant Time: Nov 3 10:51 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Multiple Level Calibration



TIC: 1030C29W.D

(2) Gasoline (TMHB)		
15.63min	332.6619ppb	m
response	46900368	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.23#
0.00	0.00	0.69#
0.00	0.00	0.00

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 10/31/2011
Instrument: Chico
Initial Cal. Date: 10/30/2011
Data File: 1031C04W.D

	Compound	MEAN	CCRF	%D	%Drift
1	| Fluorobenzene (IS)	ISTD			|
2	TMHB Gasoline	5.897	3.269	45	TMHBL 13
3	Chlorobenzene-D5 (IS)	ISTD			
4	1,4-Dichlorobenzene-D (IS)	ISTD			
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
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39					
40					

Average

45.0

Data File : M:\CHICO\DATA\C111030\1031C04W.D Vial: 1
 Acq On : 31 Oct 11 21:42 Operator: STC
 Sample : 111031A CCV-1WC (GAS) Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 3 11:08 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	TIC	1335326	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.05	TIC	1352394	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.24	TIC	1300579	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	15.51	TIC	52385955m	339.25990	ppb	100

Quantitation Report

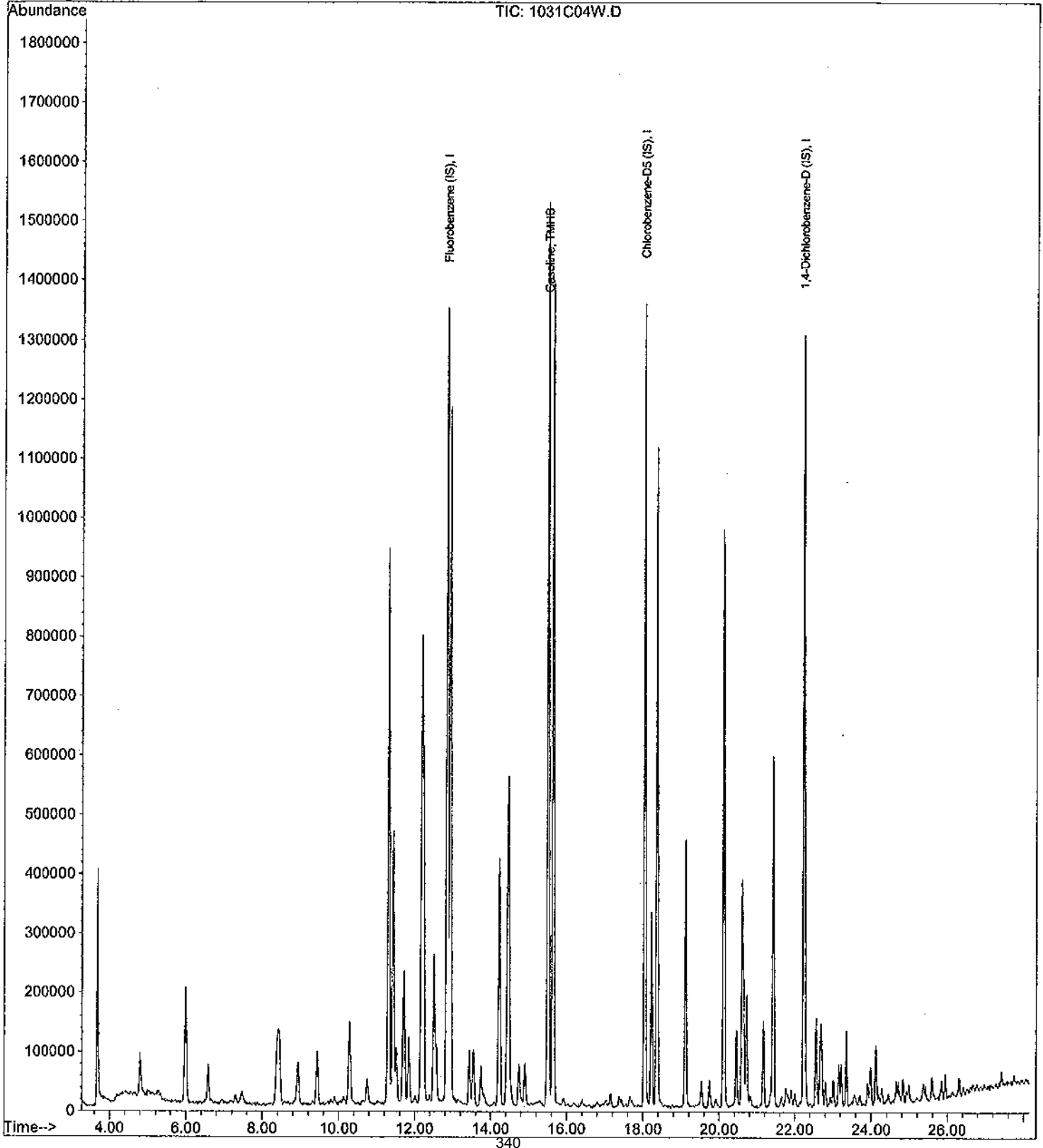
Data File : M:\CHICO\DATA\C111030\1031C04W.D
Acq On : 31 Oct 11 21:42
Sample : 111031A CCV-1WC (GAS)
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 11:08 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration

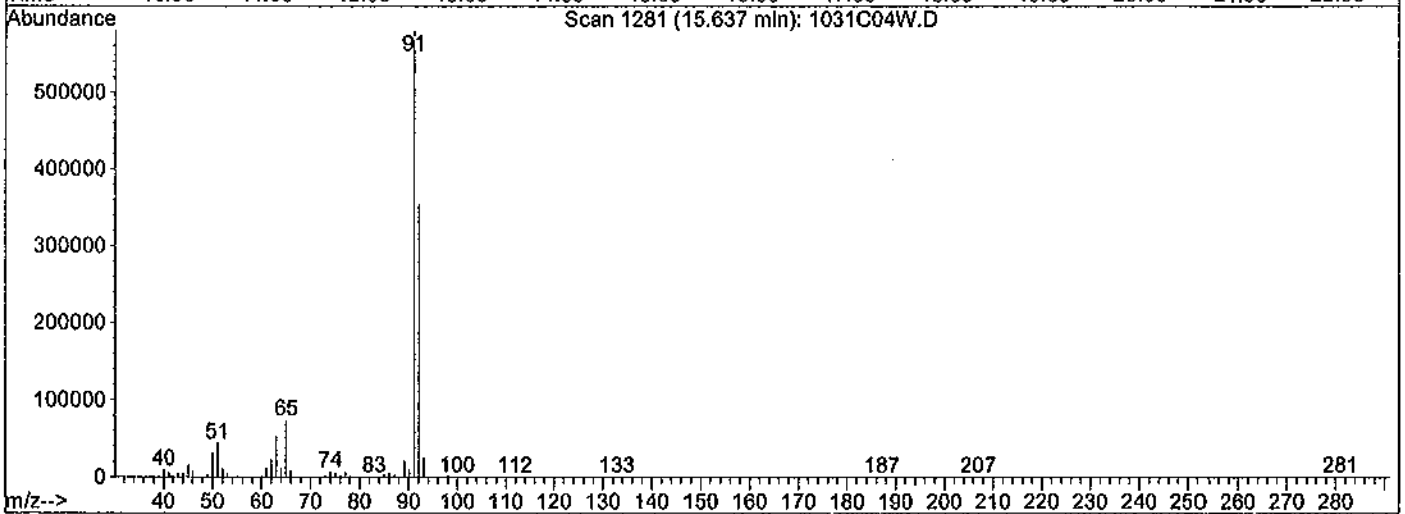
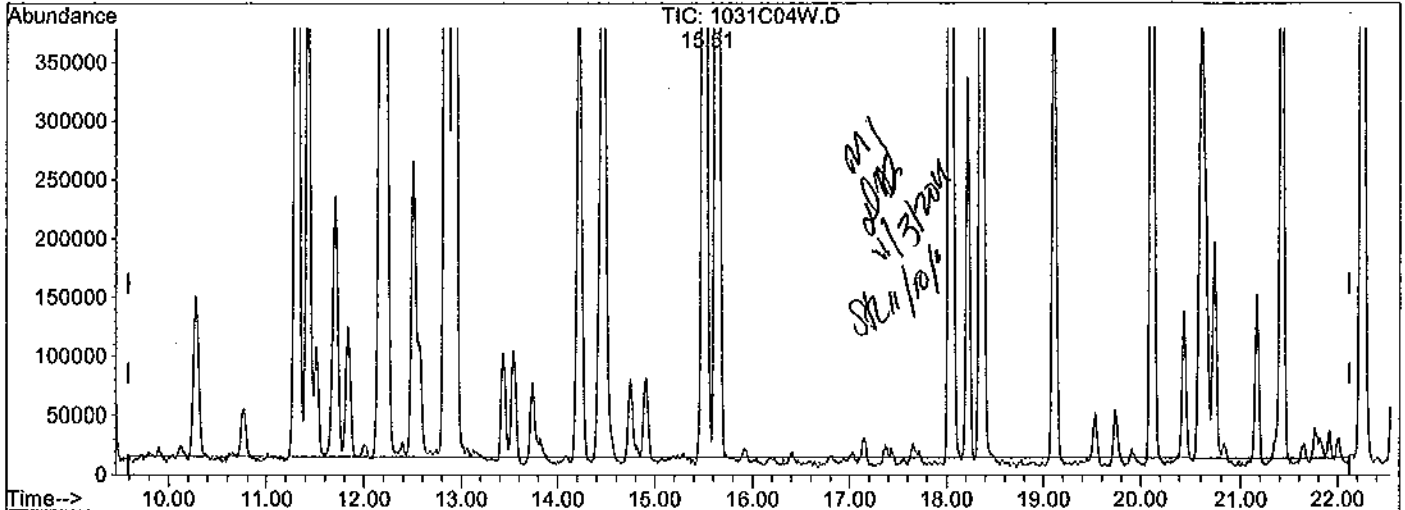


Quantitation Report

Data File : M:\CHICO\DATA\C111030\1031C04W.D
 Acq On : 31 Oct 11 21:42
 Sample : 111031A CCV-1WC (GAS)
 Misc : Water 10mLw/ IS&S:10-30/10-26-11
 Quant Time: Nov 3 10:56 2011

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Multiple Level Calibration



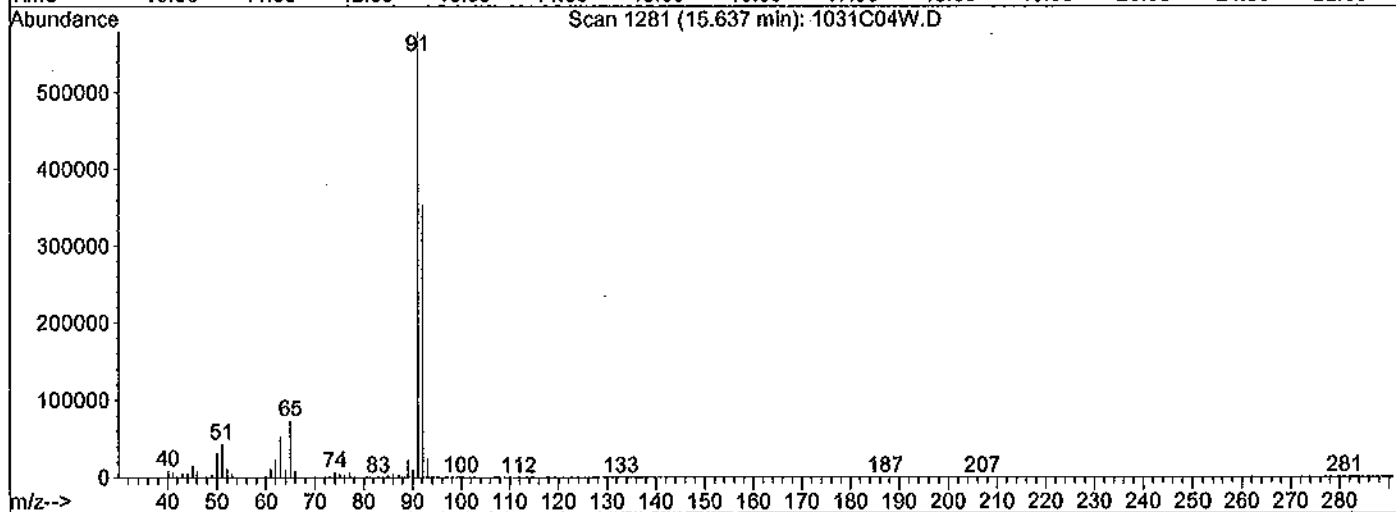
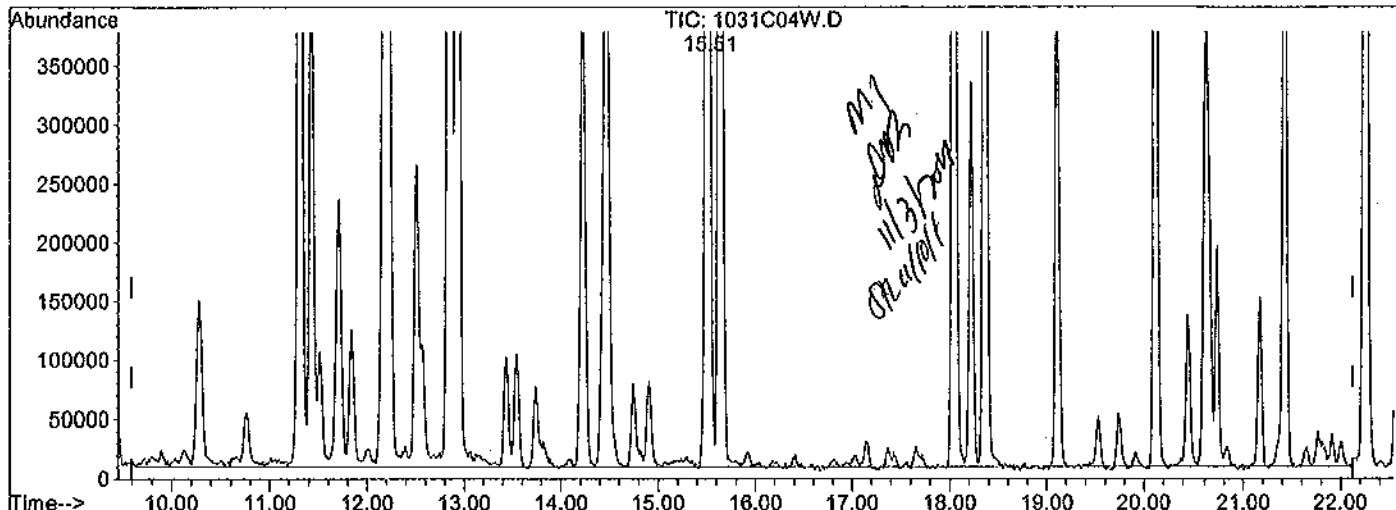
TIC: 1031C04W.D

(2) Gasoline (TMHB)		
15.64min	304.2107ppb m	
response	48727700	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.25#
0.00	0.00	0.73#
0.00	0.00	0.00

Quantitation Report

Data File : M:\CHICO\DATA\C111030\1031C04W.D Vial: 1
 Acq On : 31 Oct 11 21:42 Operator: STC
 Sample : 111031A CCV-1WC (GAS) Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00
 Quant Time: Nov 3 11:08 2011 Quant Results File: temp.res

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Multiple Level Calibration



TIC: 1031C04W.D

(2) Gasoline (TMHB)		
15.51min	339.2599ppb	m
response	52385955	
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.23#
0.00	0.00	0.67#
0.00	0.00	0.00

EPA METHOD 8260B
Volatile Organic Compounds
Raw Data

Method Blank

EPA 8260B VOCs + Gas Water

Blank Name/QCG: 111031W-49559 - 161078
 Batch ID: #86RHB-111031AC

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1,1,1,2-TETRACHLOROETHANE	0.26 U	1.0	0.26	0.13	ug/L	11/01/11	11/01/11
BLANK	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/01/11	11/01/11
BLANK	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	11/01/11	11/01/11
BLANK	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	11/01/11	11/01/11
BLANK	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
BLANK	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	11/01/11	11/01/11
BLANK	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	11/01/11	11/01/11
BLANK	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	11/01/11	11/01/11
BLANK	1,2-DIBROMO-3-CHLOROPROPA	1.52 U	2.0	1.52	0.76	ug/L	11/01/11	11/01/11
BLANK	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	11/01/11	11/01/11
BLANK	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	11/01/11	11/01/11
BLANK	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/01/11	11/01/11
BLANK	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	11/01/11	11/01/11
BLANK	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	11/01/11	11/01/11
BLANK	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	11/01/11	11/01/11
BLANK	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
BLANK	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	11/01/11	11/01/11
BLANK	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	11/01/11	11/01/11
BLANK	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	11/01/11	11/01/11
BLANK	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	11/01/11	11/01/11
BLANK	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/01/11	11/01/11
BLANK	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	11/01/11	11/01/11
BLANK	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	11/01/11	11/01/11
BLANK	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	11/01/11	11/01/11
BLANK	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	11/01/11	11/01/11
BLANK	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
BLANK	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	11/01/11	11/01/11
BLANK	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	11/01/11	11/01/11
BLANK	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	11/01/11	11/01/11
BLANK	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	11/01/11	11/01/11
BLANK	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	11/01/11	11/01/11
BLANK	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	11/01/11	11/01/11
BLANK	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
BLANK	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	11/01/11	11/01/11

Quant Method:CALLW.M
 Run #:1031C08
 Instrument:Chico
 Sequence:C111030
 Initials:ARS

GC SC-Blank-REG MDLs
 Printed: 12/08/11 6:14:23 PM

Method Blank
EPA 8260B VOCs + Gas Water

Blank Name/QCG: 111031W-49559 - 161078
 Batch ID: #86RHB-111031AC

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	11/01/11	11/01/11
BLANK	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	11/01/11	11/01/11
BLANK	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	11/01/11	11/01/11
BLANK	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	11/01/11	11/01/11
BLANK	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
BLANK	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	11/01/11	11/01/11
BLANK	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	11/01/11	11/01/11
BLANK	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	11/01/11	11/01/11
BLANK	SURROGATE: 1,2-DICHLOROET	103	70-120			%	11/01/11	11/01/11
BLANK	SURROGATE: 4-BROMOFLUORO	101	75-120			%	11/01/11	11/01/11
BLANK	SURROGATE: DIBROMOFLUOR	97.4	85-115			%	11/01/11	11/01/11
BLANK	SURROGATE: TOLUENE-D8 (S)	101	85-120			%	11/01/11	11/01/11

Quant Method:CALLW.M
 Run #:1031C08
 Instrument:Chico
 Sequence:C111030
 Initials:ARS

GC SC-Blank-REG MDLs
 Printed: 12/06/11 6:14:23 PM

Quantitation Report (QT Reviewed)

Data File : M:\CHICO\DATA\C111030\1031C08W.D Vial: 1
 Acq On : 1 Nov 11 00:10 Operator: STC
 Sample : 111031A BLK-1WC Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 3 12:09 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Wed Nov 02 14:33:25 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	96	625564	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.04	117	421888	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.25	152	225152	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.42	111	407261	24.43937	ppb	0.00
Spiked Amount	25.097		Recovery	=	97.377%	
38) 1,2-DCA-D4(S)	12.23	65	369565	24.91340	ppb	0.00
Spiked Amount	24.225		Recovery	=	102.839%	
56) Toluene-D8(S)	15.51	98	1544047	26.01087	ppb	0.00
Spiked Amount	25.808		Recovery	=	100.785%	
64) 4-Bromofluorobenzene(S)	20.12	95	547501	25.74084	ppb	0.00
Spiked Amount	25.459		Recovery	=	101.106%	

Target Compounds Qvalue

Quantitation Report

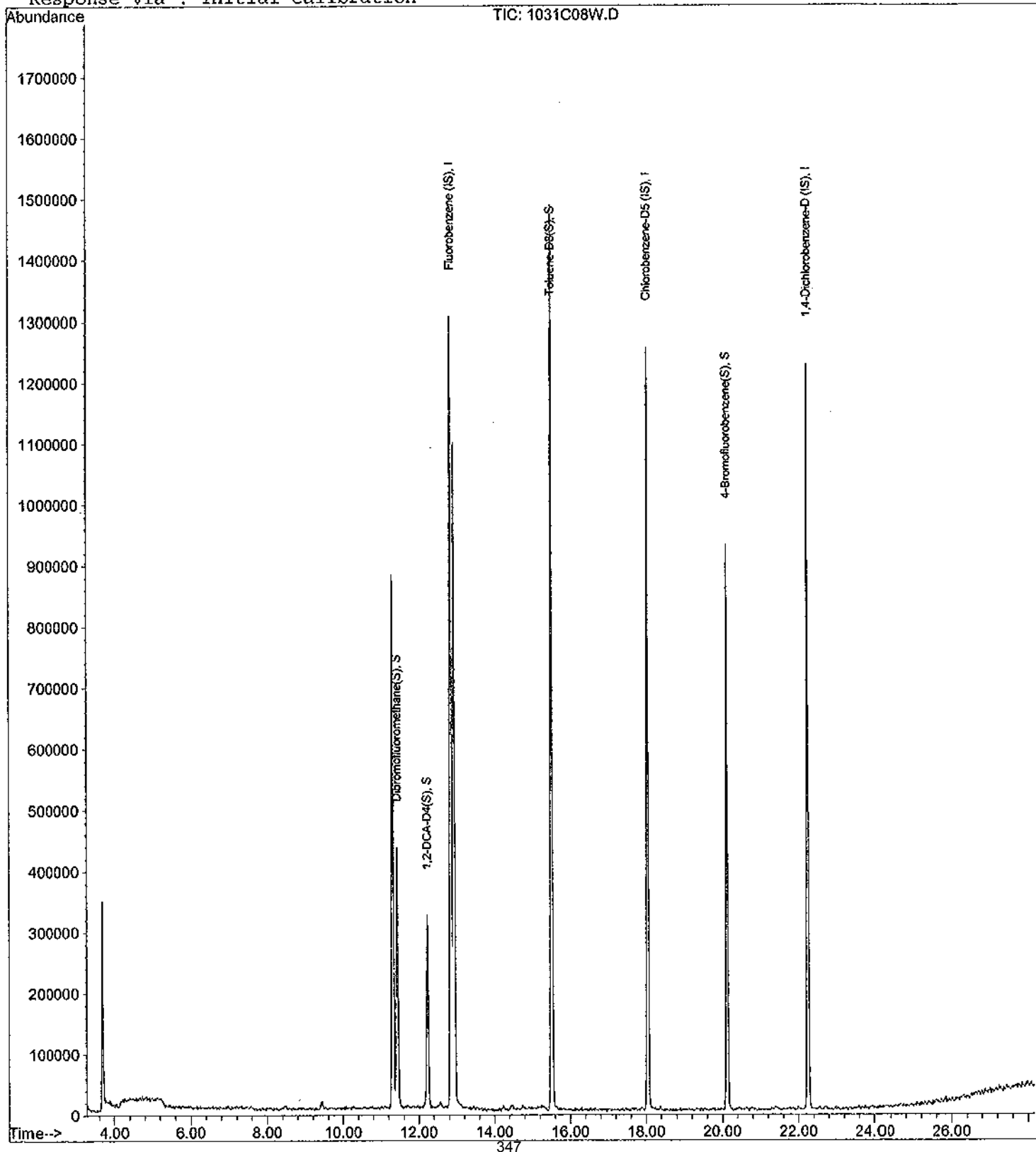
Data File : M:\CHICO\DATA\C111030\1031C08W.D
Acq On : 1 Nov 11 00:10
Sample : 111031A BLK-1WC
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 12:09 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Thu Nov 03 10:27:07 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1031C08W.D Vial: 1
 Acq On : 1 Nov 11 00:10 Operator: STC
 Sample : 111031A BLK-1WC Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 10 10:28 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1296737	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.04	TIC	1249189	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.25	TIC	1220985	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

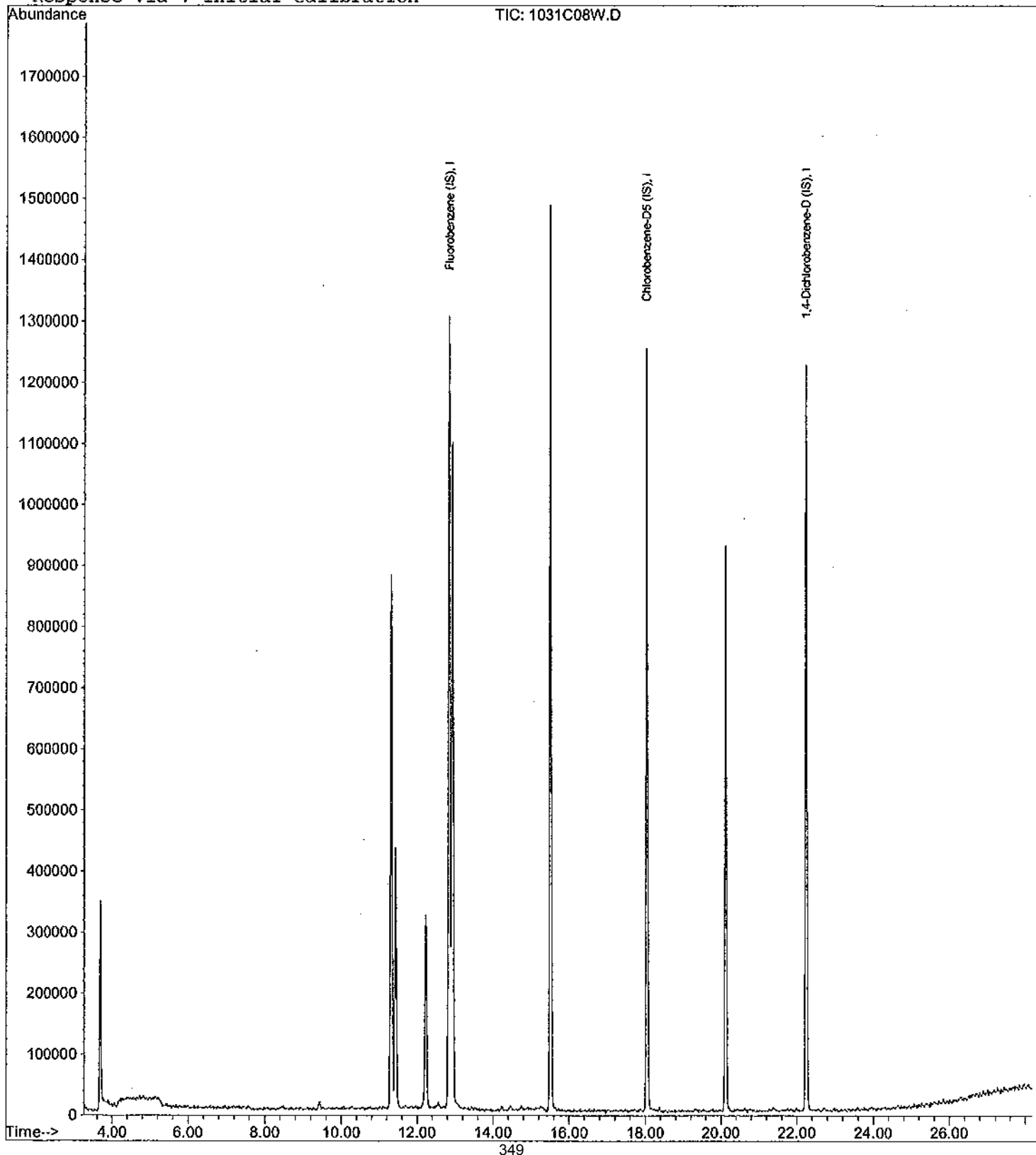
Data File : M:\CHICO\DATA\C111030\1031C08W.D
Acq On : 1 Nov 11 00:10
Sample : 111031A BLK-1WC
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 10 10:28 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Laboratory Control Spike Recovery
EPA 8260B VOCs + Gas Water

APPL ID: 111031W-49559 LCS - 161078
 Batch ID: #86RHB-111031AC

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1,1,1,2-TETRACHLOROETHANE	10.00	9.47	94.7	80-130
1,1,1-TRICHLOROETHANE	10.00	8.95	89.5	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	10.1	101	65-130
1,1,2-TRICHLOROETHANE	10.00	9.61	96.1	75-125
1,1-DICHLOROETHANE	10.00	9.36	93.6	70-135
1,1-DICHLOROETHENE	10.00	8.56	85.6	70-130
1,2,3-TRICHLOROPROPANE	10.00	9.82	98.2	75-125
1,2,4-TRICHLOROBENZENE	10.00	9.19	91.9	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	8.49	84.9	50-130
1,2-DIBROMOETHANE	10.00	9.29	92.9	70-130
1,2-DICHLOROBENZENE	10.00	9.16	91.6	70-120
1,2-DICHLOROETHANE	10.00	8.73	87.3	70-130
1,2-DICHLOROPROPANE	10.00	9.52	95.2	75-125
1,3-DICHLOROBENZENE	10.00	9.06	90.6	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	18.9	94.5	70-130
1,4-DICHLOROBENZENE	10.00	9.03	90.3	75-125
2-BUTANONE	10.00	9.19	91.9	30-150
4-METHYL-2-PENTANONE	10.00	9.90	99.0	60-135
ACETONE	10.00	12.0	120	40-140
BENZENE	10.00	9.33	93.3	80-120
BROMODICHLOROMETHANE	10.00	9.53	95.3	75-120
BROMOFORM	10.00	8.49	84.9	70-130
BROMOMETHANE	10.00	9.52	95.2	30-145
CARBON TETRACHLORIDE	10.00	9.31	93.1	65-140
CHLOROBENZENE	10.00	8.90	89.0	80-120
CHLORODIBROMOMETHANE	10.00	9.21	92.1	60-135

Comments: _____

<u>Primary</u>	<u>SPK</u>
Quant Method :	CALLW.M
Extraction Date :	10/31/11
Analysis Date :	10/31/11
Instrument :	Chico
Run :	1031C03
Initials :	ARS

Printed: 12/06/11 6:14:25 PM

APPL Standard LCS

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: 111031W-49559 LCS - 161078

Batch ID: #86RHB-111031AC

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
CHLOROETHANE	10.00	9.08	90.8	60-135
CHLOROFORM	10.00	8.96	89.6	65-135
CHLOROMETHANE	10.00	8.78	87.8	40-125
CIS-1,2-DICHLOROETHENE	10.00	8.91	89.1	70-125
ETHYLBENZENE	10.00	8.78	87.8	75-125
GASOLINE	300	302	101	75-125
HEXACHLOROBUTADIENE	10.00	9.30	93.0	50-140
METHYL TERT-BUTYL ETHER	10.00	9.51	95.1	65-125
METHYLENE CHLORIDE	10.00	9.29	92.9	55-140
STYRENE	10.00	9.03	90.3	65-135
TETRACHLOROETHENE	10.00	9.03	90.3	45-150
TOLUENE	10.00	9.17	91.7	75-120
TRANS-1,2-DICHLOROETHENE	10.00	8.83	88.3	60-140
TRICHLOROETHENE	10.00	9.31	93.1	70-125
VINYL CHLORIDE	10.00	9.95	99.5	50-145
XYLENES (TOTAL)	30.0	26.6	88.7	80-120
<hr style="border-top: 1px dashed black;"/>				
SURROGATE: 1,2-DICHLOROETHANE-D	24.2	23.9	98.7	70-120
SURROGATE: 4-BROMOFLUOROBENZE	25.5	25.4	99.8	75-120
SURROGATE: DIBROMOFLUOROMETH	25.1	25.8	103	85-115
SURROGATE: TOLUENE-D8 (S)	25.8	25.6	99.2	85-120

Comments:

<u>Primary</u>	<u>SPK</u>
Quant Method :	CALLW.M
Extraction Date :	10/31/11
Analysis Date :	10/31/11
Instrument :	Chico
Run :	1031C03
Initials :	ARS

Printed: 12/06/11 6:14:25 PM

APPL Standard LCS

Data File : M:\CHICO\DATA\C111030\1031C03W.D
 Acq On : 31 Oct 11 21:05
 Sample : 111031A LCS-1WC
 Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:35 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:32:50 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	96	647984	25.00000	ppb	0.01
55) Chlorobenzene-D5 (IS)	18.04	117	454784	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.25	152	238016	25.00000	ppb	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) Dibromofluoromethane(S)	11.43	111	445934	25.83421	ppb	0.00
Spiked Amount				25.097		
				Recovery = 102.936%		
38) 1,2-DCA-D4(S)	12.24	65	367475	23.91539	ppb	0.01
Spiked Amount				24.225		
				Recovery = 98.719%		
56) Toluene-D8(S)	15.51	98	1639040	25.61391	ppb	0.01
Spiked Amount				25.808		
				Recovery = 99.247%		
64) 4-Bromofluorobenzene(S)	20.12	95	583264	25.43870	ppb	0.01
Spiked Amount				25.459		
				Recovery = 99.920%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	4.08	85	225488	9.44501	ppb	99
3) Freon 114	4.35	85	159535	10.66971	ppb	94
4) Chloromethane	4.56	50	259768	8.78054	ppb	94
5) Vinyl chloride	4.83	62	196934	9.95180	ppb	99
7) Bromomethane	5.73	94	136706	9.51675	ppb	87
8) Chloroethane	5.92	64	148430	9.08065	ppb	96
9) Dichlorofluoromethane	6.01	67	400491	8.86153	ppb	95
10) Trichlorofluoromethane	6.53	101	245473	9.15270	ppb	97
11) Acetonitrile	7.66	41	84911	119.61773	ug/l	100
12) Acrolein	7.17	56	37841	116.49356	ppb	99
13) Acetone	7.29	43	22326	12.02563	ppb	# 51
14) Freon-113	7.47	101	157789	10.05496	ppb	97
15) 1,1-DCE	7.69	96	158388	8.56171	ppb	99
16) t-Butanol	7.77	59	9786	111.40125	ppb	# 79
17) Methyl Acetate	8.20	43	51970	9.24409	ppb	94
18) Iodomethane	8.17	142	97739	9.92030	ppb	# 85
19) Acrylonitrile	8.57	53	22524	11.12130	ppb	76
20) Methylene chloride	8.49	84	163957	9.29196	ppb	99
21) Carbon disulfide	8.56	76	163264	9.08294	ppb	99
22) Methyl t-butyl ether (MtBE)	8.90	73	265939	9.51082	ppb	91
23) Trans-1,2-DCE	9.10	96	189476	8.82889	ppb	90
24) Diisopropyl Ether	9.76	45	592970	9.59249	ppb	98
25) 1,1-DCA	9.80	63	342957	9.35512	ppb	96
26) Vinyl Acetate	9.42	43	136241	12.18531	ppb	86
27) Ethyl tert Butyl Ether	10.46	59	405264	9.60283	ppb	96
28) MEK (2-Butanone)	10.44	43	68080	9.18546	ppb	# 92
29) Cis-1,2-DCE	10.82	96	196503	8.90998	ppb	86
30) 2,2-Dichloropropane	10.82	77	242648	9.24001	ppb	98
31) Chloroform	11.11	83	316036	8.96115	ppb	99
32) Bromochloromethane	11.32	128	58389	9.50975	ppb	93
34) 1,1,1-TCA	11.84	97	286942	8.94660	ppb	92
35) Cyclohexane	12.01	56	287745	9.63585	ppb	98
36) 1,1-Dichloropropene	12.11	75	255047	9.28058	ppb	96
37) 2,2,4-Trimethylpentane	12.18	57	512824	11.03452	ppb	97
39) Carbon Tetrachloride	12.31	117	205622	9.31046	ppb	98
40) Tert Amyl Methyl Ether	12.35	73	293426	9.29862	ppb	99

(#) = qualifier out of range (m) = manual integration
 1031C03W.D CALLW.M Fri Dec 02 11:35:56 2011

Data File : M:\CHICO\DATA\C111030\1031C03W.D
 Acq On : 31 Oct 11 21:05
 Sample : 111031A LCS-1WC
 Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:35 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:32:50 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
41) 1,2-DCA	12.38	62	158044	8.73030	ppb	96
42) Benzene	12.51	78	736646	9.32974	ppb	98
43) TCE	13.54	95	203505	9.30638	ppb	94
44) 2-Pentanone	13.21	43	562579	122.98966	ppb	95
45) 1,2-Dichloropropane	13.77	63	170800	9.51716	ppb #	94
46) Bromodichloromethane	14.13	83	195405	9.53050	ppb	96
47) Methyl Cyclohexane	13.83	83	252614	9.88549	ppb	99
48) Dibromomethane	14.17	93	69271	9.65133	ppb	95
49) 2-Chloroethyl vinyl ether	14.58	63	43663	9.57009	ppb	98
50) 1-Bromo-2-chloroethane	14.89	63	147119	9.60740	ppb	84
51) Cis-1,3-Dichloropropene	15.02	75	185638	9.49509	ppb	98
52) Toluene	15.64	91	713964	9.16792	ppb	97
53) Trans-1,3-Dichloropropene	15.81	75	131702	9.35696	ppb	94
54) 1,1,2-TCA	16.09	83	72914	9.61145	ppb	90
57) 1,2-EDB	17.34	107	80384	9.28697	ppb #	90
58) Tetrachloroethene	16.79	164	211037	9.02584	ppb	93
59) 1-Chlorohexane	17.71	91	248081	9.21374	ppb	93
60) 1,1,1,2-Tetrachloroethane	18.17	131	138669	9.47327	ppb	88
61) m&p-Xylene	18.36	106	614318	17.78494	ppb	95
62) o-Xylene	19.11	106	293731	8.84198	ppb	97
63) Styrene	19.13	104	452850	9.03142	ppb	100
65) 2-Hexanone	16.11	43	35785	8.59928	ppb	93
66) 1,3-Dichloropropane	16.50	76	160231	9.38773	ppb	98
67) Dibromochloromethane	16.98	129	102580	9.20626	ppb	92
68) Chlorobenzene	18.11	112	439789	8.90026	ppb	96
69) Ethylbenzene	18.23	91	807647	8.77746	ppb	95
70) Bromoform	19.65	173	47354	8.49273	ppb #	76
72) MIBK (methyl isobutyl keto)	14.68	43	67007	9.90295	ppb	85
73) Isopropylbenzene	19.75	105	801426	9.29024	ppb	95
74) 1,1,2,2-Tetrachloroethane	19.90	83	73172	10.13288	ppb #	90
75) 1,2,3-Trichloropropane	20.16	110	7955	9.82437	ppb #	77
76) t-1,4-Dichloro-2-Butene	20.23	53	16296	9.95241	ppb	95
77) Bromobenzene	20.48	156	179928	9.04222	ppb	97
78) n-Propylbenzene	20.45	91	932853	9.06465	ppb	99
79) 4-Ethyltoluene	20.65	105	625145	8.77813	ppb	98
80) 2-Chlorotoluene	20.74	91	610221	8.95313	ppb	96
81) 1,3,5-Trimethylbenzene	20.72	105	623983	8.90597	ppb	100
82) 4-Chlorotoluene	20.83	91	513411	8.74788	ppb	98
83) Tert-Butylbenzene	21.37	119	668758	8.81637	ppb	95
84) 1,2,4-Trimethylbenzene	21.43	105	615869	8.41638	ppb	99
85) Sec-Butylbenzene	21.77	105	829510	9.11875	ppb	100
86) p-Isopropyltoluene	22.00	119	701791	9.00694	ppb	99
87) Benzyl Chloride	22.43	91	101311	9.79506	ppb	94
88) 1,3-DCB	22.13	146	368780	9.06239	ppb	98
89) 1,4-DCB	22.31	146	341103	9.03123	ppb	95
90) Hexachloroethane	23.61	117	104555	8.95951	ppb	89
91) n-Butylbenzene	22.71	91	615437	9.05587	ppb	99
92) 1,2-DCB	22.94	146	296381	9.15652	ppb	97
93) 1,2-Dibromo-3-chloropropan	24.16	155	9536	8.48520	ppb	92
94) 1,2,4-Trichlorobenzene	25.59	180	215502	9.18784	ppb	98
95) Hexachlorobutadiene	25.84	223	39632	9.30029	ppb	92

(#) = qualifier out of range (m) = manual integration
 1031C03W.D CALLW.M Fri Dec 02 11:35:57 2011

Data File : M:\CHICO\DATA\C111030\1031C03W.D Vial: 1
 Acq On : 31 Oct 11 21:05 Operator: STC
 Sample : 111031A LCS-1WC Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Dec 2 11:35 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:32:50 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
96) Naphthalene	25.95	128	269175	9.30126	ppb	100
97) 1,2,3-Trichlorobenzene	26.30	180	164433	9.26811	ppb	94

Quantitation Report

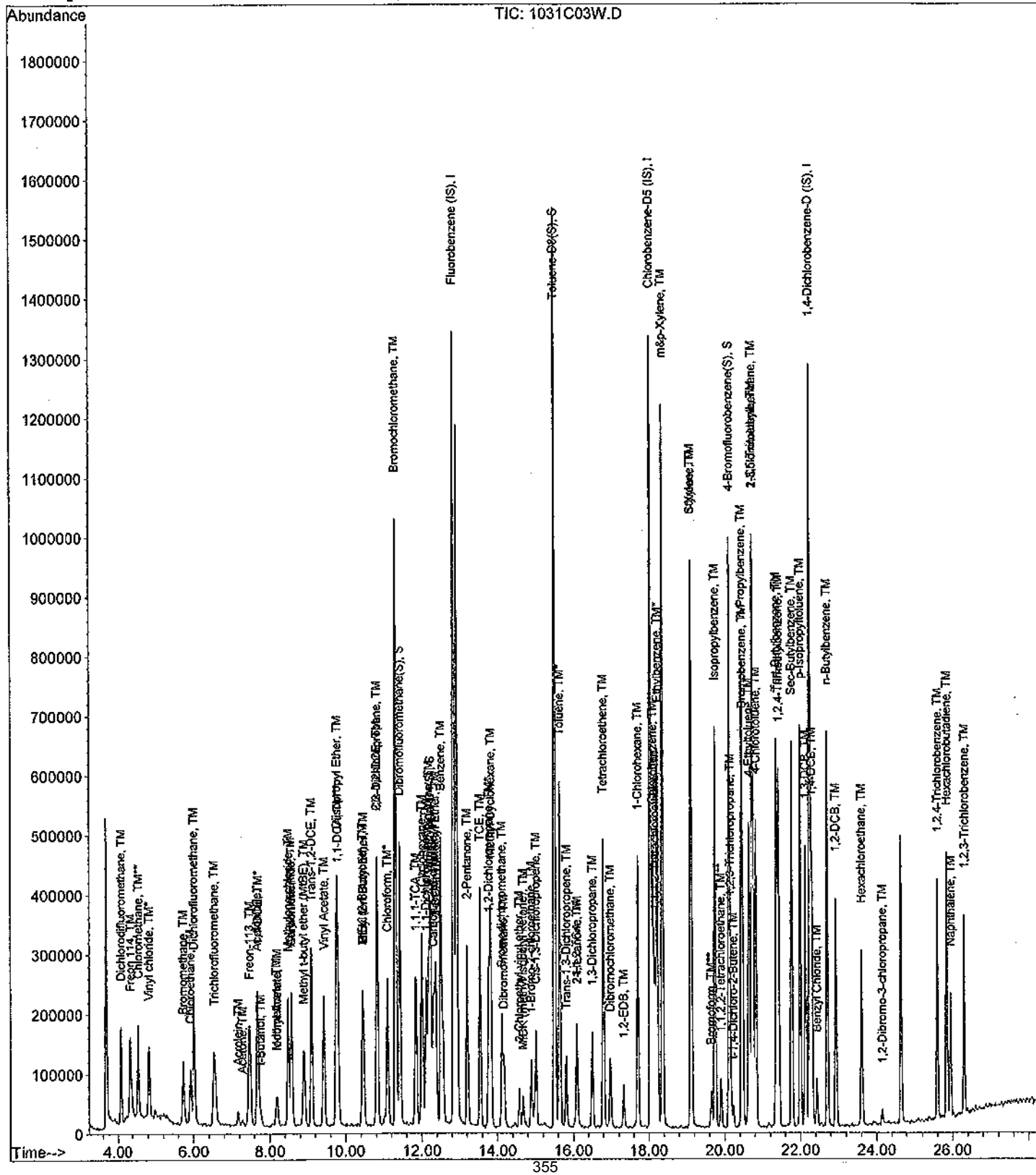
Data File : M:\CHICO\DATA\C111030\1031C03W.D
 Acq On : 31 Oct 11 21:05
 Sample : 111031A LCS-1WC
 Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Dec 2 11:35 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Fri Dec 02 11:32:50 2011
 Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1031C05W.D Vial: 1
 Acq On : 31 Oct 11 22:19 Operator: STC
 Sample : 111031A LCS-1WC (GAS) Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 3 10:56 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	TIC	1329581	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.05	TIC	1304550	25.00000	ppb	0.01
4) 1,4-Dichlorobenzene-D (IS)	22.25	TIC	1325620	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	15.64	TIC	48291384m	302.02962	ppb	100

Quantitation Report

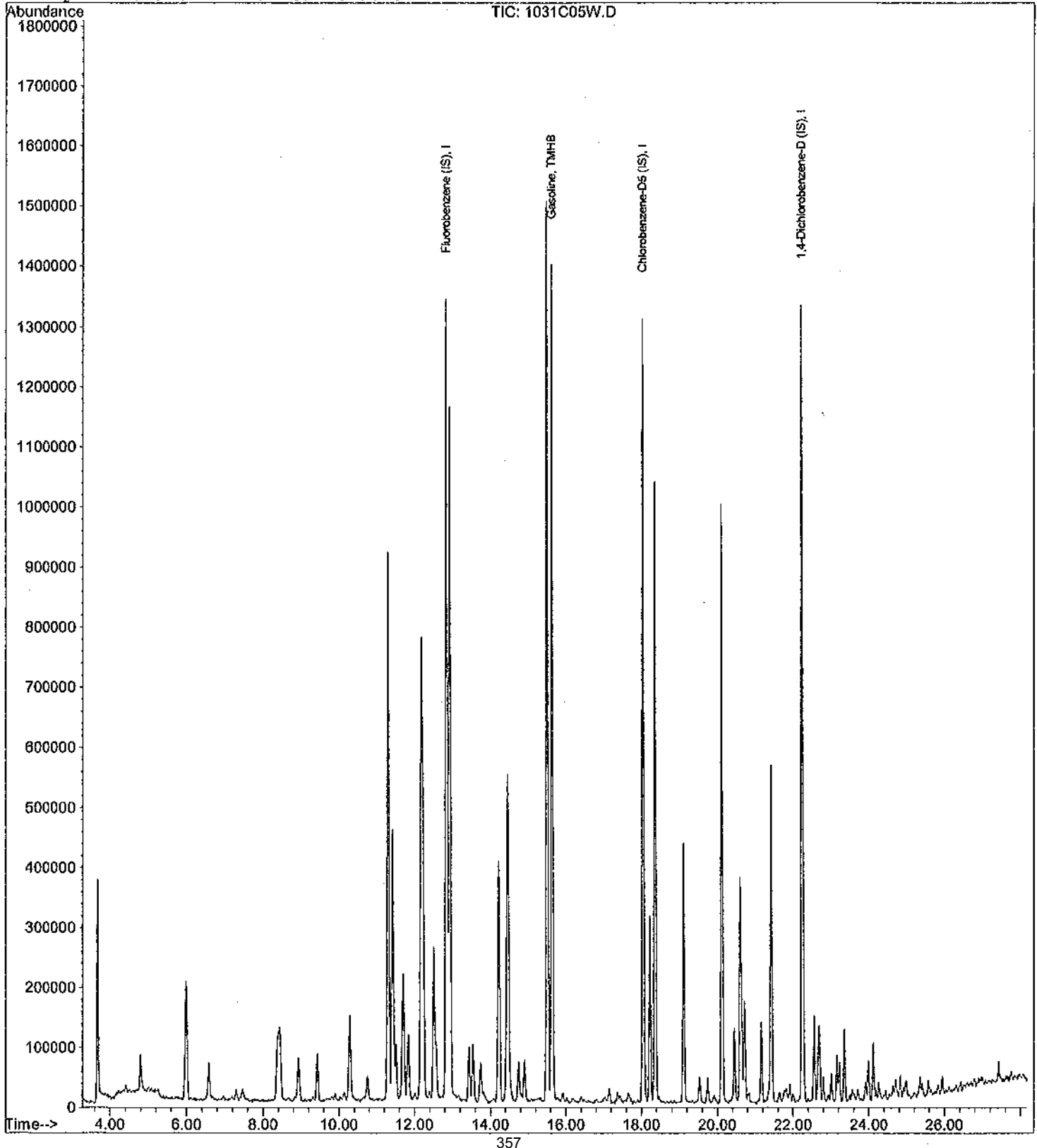
Data File : M:\CHICO\DATA\C111030\1031C05W.D
Acq On : 31 Oct 11 22:19
Sample : 111031A LCS-1WC (GAS)
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 10:56 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration

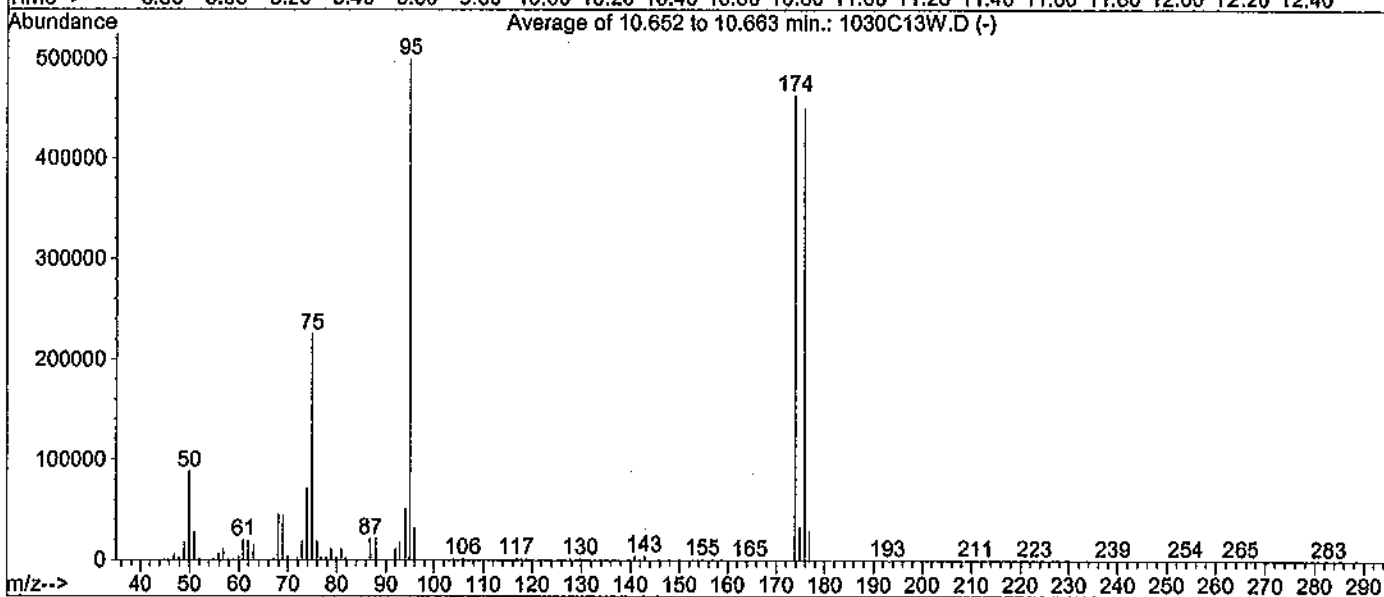
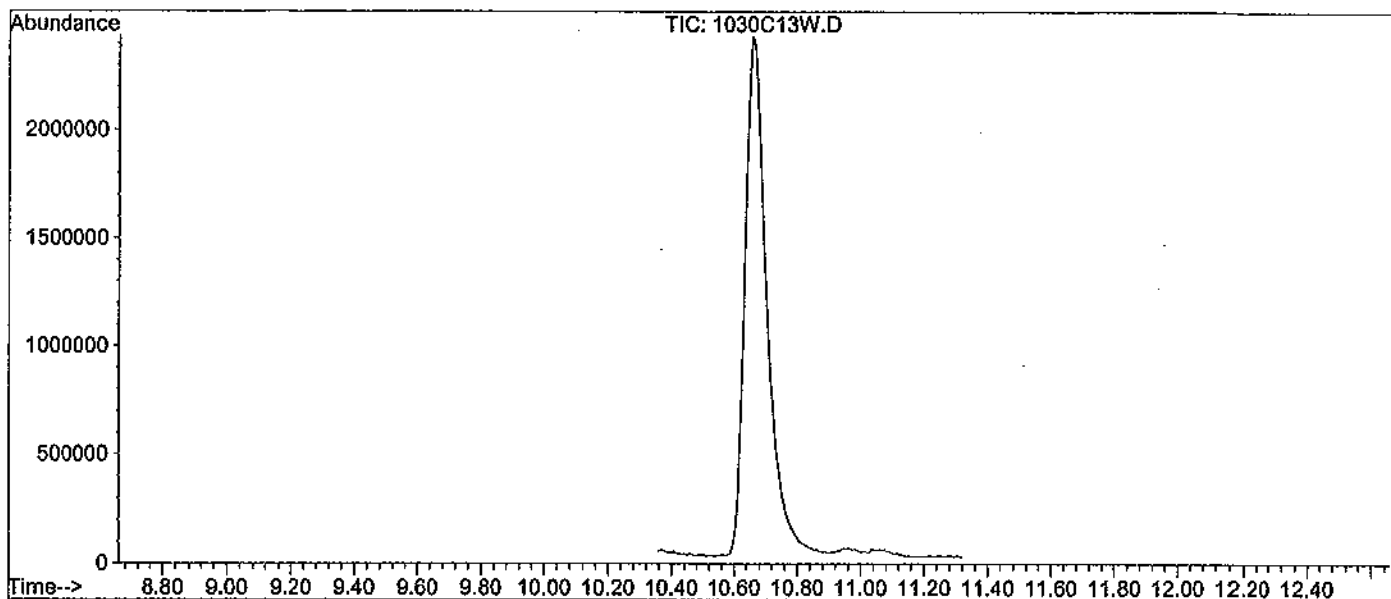


BFB

Data File : M:\CHICO\DATA\C111030\1030C13W.D
Acq On : 30 Oct 11 22:01
Sample : 20ug/ml BFB Std 10-19-11
Misc : Water 2uL

Vial: 1
Operator: RS
Inst : Chico
Multiplr: 1.00

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
Title : METHOD 8260



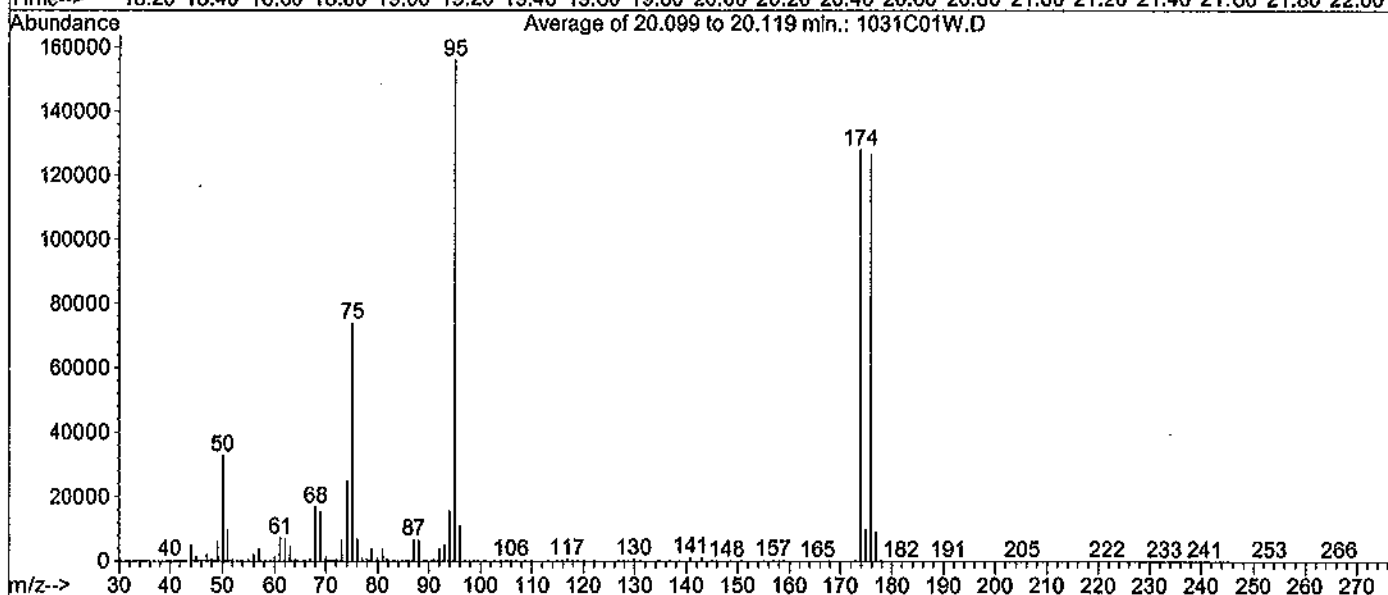
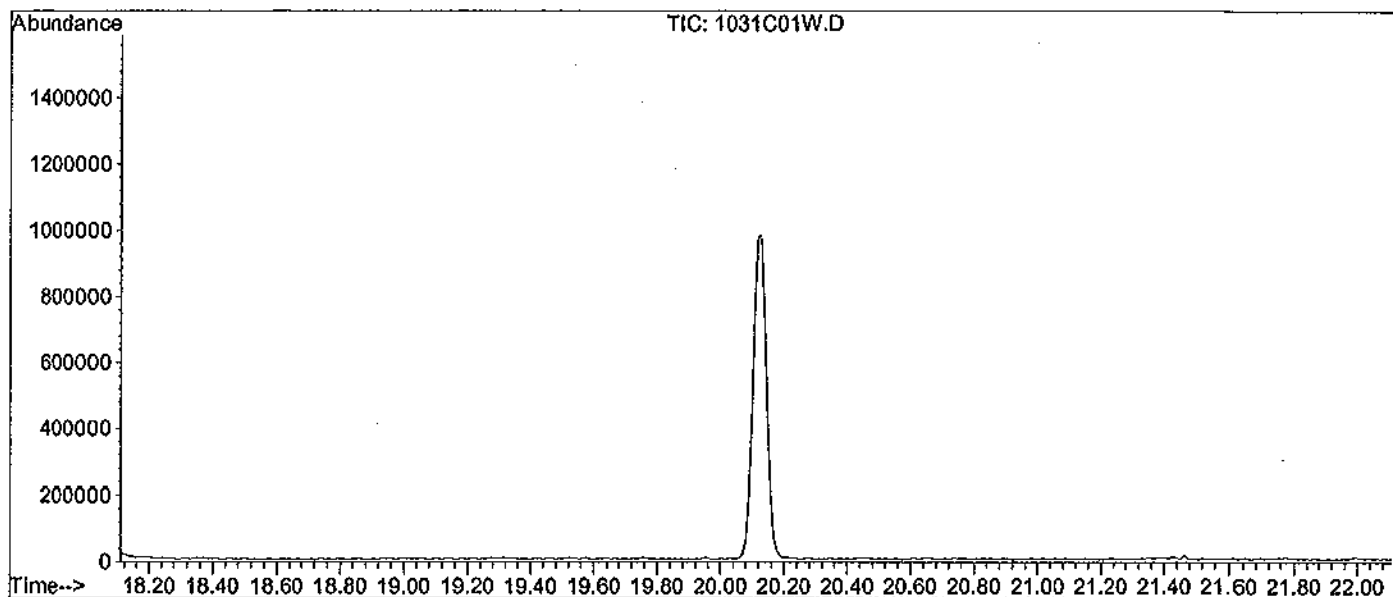
AutoFind: Scans 52, 53, 54; Background Corrected with Scan 36

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.7	88217	PASS
75	95	30	60	45.1	224883	PASS
95	95	100	100	100.0	499051	PASS
96	95	5	9	6.5	32634	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	92.8	463189	PASS
175	174	5	9	7.2	33219	PASS
176	174	95	101	97.1	449771	PASS
177	176	5	9	6.4	28567	PASS

Data File : M:\CHICO\DATA\C111030\1031C01W.D
 Acq On : 31 Oct 11 19:50
 Sample : 20ug/mL BFB STD10-19-11
 Misc : Water 2ul

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Method : M:\CHICO\DATA\C111030\CALLW.M (RTE Integrator)
 Title : METHOD 8260



Spectrum Information: Average of 20.099 to 20.119 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.0	32803	PASS
75	95	30	60	47.5	73965	PASS
95	95	100	100	100.0	155859	PASS
96	95	5	9	7.0	10958	PASS
173	174	0.00	2	0.3	376	PASS
174	95	50	100	82.2	128160	PASS
175	174	5	9	7.8	10028	PASS
176	174	95	101	99.0	126891	PASS
177	176	5	9	7.3	9255	PASS

Volatile Standard Curve Preparation for 5mL Purge (8260 sol.) THOR

Date	Conc.	Expiration Date: 08/16/11									
		50µg/mL Vol Std #9	50µg/mL Surrogate	50µg/mL Vol Std #7	50µg/mL Vol Std #8	50µg/mL Surrogate	50µg/mL Vol Std #10	50µg/mL Vol Std #11	50µg/mL Vol Std #12	50µg/mL Vol Std #13	50µg/mL Vol Std #14
08-15-11A	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a	
08-15-11B	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a	
08-15-11C	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a	
08-15-11D	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a	
08-15-11E	50	n/a	n/a	5	5	5	n/a	5	n/a	5	
08-15-11F	100	n/a	n/a	10	10	10	n/a	10	n/a	10	
08-15-11G	200	n/a	n/a	20	20	20	n/a	20	n/a	20	

250µg/mL TBA	Final Vol
08-10-11W	w/PAT H ₂ O
Exp: 08-17-11	ml
1	5
2	5
3	5
4	5
5	5
6	5
7	5

Volatile Standard Curve Preparation for 5mL Purge (8260 sol.) THOR

Date	Conc.	Expiration Date: 08/17/11									
		50µg/mL Vol Std #9	50µg/mL Surrogate	50µg/mL Vol Std #7	50µg/mL Vol Std #8	50µg/mL Surrogate	50µg/mL Vol Std #10	50µg/mL Vol Std #11	50µg/mL Vol Std #12	50µg/mL Vol Std #13	50µg/mL Vol Std #14
08-18-11A	2	2	2	n/a	n/a	n/a	2	n/a	2	n/a	
08-18-11B	5	5	5	n/a	n/a	n/a	5	n/a	5	n/a	
08-18-11C	10	10	10	n/a	n/a	n/a	10	n/a	10	n/a	
08-18-11D	20	20	20	n/a	n/a	n/a	20	n/a	20	n/a	
08-18-11E	50	n/a	n/a	5	5	5	n/a	5	n/a	5	
08-18-11F	100	n/a	n/a	10	10	10	n/a	10	n/a	10	
08-18-11G	200	n/a	n/a	20	20	20	n/a	20	n/a	20	

250µg/mL TBA	Final Vol
08-10-11W	w/PAT H ₂ O
Exp: 08-17-11	ml
1	5
2	5
3	5
4	5
5	5
6	5
7	5

Method 8260 Gases, 2,000 mg/L, 2 X 0.6 ml

Lot # 130016-03
Storage 5-10 Degree C
Expiry 3/1/14
Soln: P/T Methanol

Method 8260 Gases
Lot #: 170302 - 28886
Rec: 4/20/11 MFR exp. 03/11/14

Method 8260B Surrogate Solution, 2,000 mg/L, 1 ml

Lot # 120002-01
Storage 5-10 Degree C
Expiry 10/1/13
Soln: P/T Methanol

Method 8260B Surrogate
Lot #: 164585 - 28720
Rec: 4/20/11 MFR exp. 10/12/13

VOC Mix 4-3, 2,000 mg/L, 1 ml

Lot # 171714
Storage 5-10 Degree C
Expiry 4/1/13
Soln: P/T Methanol

VOC Mix 4-3, 2000mg/L
Lot #: 171714 - 29243
Rec: 8/5/11 MFR exp. 04/11/13

8-15-11
RS

8-18-11
RS

8-18-11
RS

8-18-11
RS

8-18-11
RS

030

GCMS STANDARD PREPARATION BOOK # 98 PAGE #

08-17-11V		Exp: 08/24/11					
50ug/ml Vol Work Std #9							
SOURCE		Lot	APPL Code	APPL Exp Date	ul		
50ug/ml Vol Work Std #7			08-17-11R	09/02/11	200		
50ug/ml Vol Work Std #8			08-17-11Y	09/02/11	200		
J&T Brand			08/12/12	06/08/12	1600		
08-17-11W		Exp: 08/24/11					
50ug/ml Vol Work Std #10							
SOURCE		Lot	APPL Code	APPL Exp Date	ul		
50ug/ml Vol Work Std #1			08-17-11B	09/02/11	200		
J&T Brand			08/12/12	06/08/12	1800		
08-17-11X		Exp: 08/24/11					
50ug/ml Vol Work Std #12							
SOURCE		Lot	APPL Code	APPL Exp Date	ul		
50ug/ml Vol Work Std #2			08-17-11U	09/02/11	200		
J&T Brand			08/12/12	06/08/12	1800		
08-17-11Y							
50ug/ml 8260 Surrogate		Conc.		Date	Exp.		
Exp: 08/24/11		ug/ml	Lot #	Code	Date	ul	
02SI		120002-01	8260B Surr Solution	2000	164585-28720	08-17-11B	09/14/11
J&T Brand			Purge & Trap MeOH		K07B34-00543	08/12/12	10/14/11
08-17-11Z		Exp: 08/24/11					
5.0ug/ml 8260 Surrogate		Lot	APPL Code	APPL Exp Date	ul		
50ug/ml 8260 Surrogate			08-17-11Y	09/02/11	200		
J&T Brand			08/05/12	06/08/12	1600		
08-17-11AA							
250ug/ml TBA/TBA/Acetone/Hexane/Cyclohexanone/Acroleins/2-P		Conc.		Date	APPL		
Exp: 08/24/11		ug/ml	Lot #	Code	Exp.		
Supplier		ID #			Date	ul	
02SI		120165-01	Volatile Mix 4-3	2000	171714-29243	08-17-11C	12/17/11
02SI		020229-09	Acrolein	10000	175935-29092	08-04-11J	08/22/11
J&T Brand			Purge & Trap MeOH		K07B34-00543	08/12/12	10/14/11

8-17-11
RS

8-17-11
RS

8-17-11
RS

CHICO							
08-17-11AB							
250ug/ml 8260 Internal Standard - Chico							
Supplier		ID #	Conc.	Lot #	Date	Exp.	
02SI		120302-03	Internal Standard Mix	2000	166255-27947	08-09-11A	10/21/11
02SI		020132-02	Fluorobenzene Standard	2000	159170-28263	08-09-11B	10/23/11
J&T Baker			Purge & Trap MeOH		K07B34-00543	08/12/11	11/14/12
08-17-11AC							
250ug/ml 8260 Surrogate - Chico							
Supplier		ID #	Conc.	Lot #	Date	Exp.	
02SI		120002-01	Surrogate Standard	2000	164585-28727	08-09-11C	10/23/11
J&T Baker			Purge & Trap MeOH		K07B34-00543	08/12/11	11/14/12

8-17-11
RS

8-17-11
RS

08-17-11AD							
50ug/ml 8260B Surrogate- Neo							
Supplier		ID #	Conc.	Lot #	Date	Exp.	
02SI		8260B Surr	Surrogate Standards	2000	164585-28720	08-17-11B	12/23/11
J.T Baker			Purge & Trap MeOH		K07B34-00543	08/12/11	10/10/12

8-17-11
RS

8-18-11
RS

Volatiles Standard Curve Preparation for 10mL Purge (260 water)-THOR

Expiration Date: 09/22/11		09-19-11I		09-19-11M		09-19-11D		09-19-11F		09-19-11J		09-19-11E		09-19-11G		09-19-11K	
Date	Conc.	50ug/mL Vol Std #9	50ug/mL Surr	50ug/mL Vol Std #7	50ug/mL Vol Std #8	50ug/mL Surr	50ug/mL Vol Std #10	50ug/mL Vol Std #11	50ug/mL Vol Std #12	50ug/mL Vol Std #13	50ug/mL Vol Std #14	50ug/mL Vol Std #15	50ug/mL Vol Std #16	50ug/mL Vol Std #17	50ug/mL Vol Std #18	50ug/mL Vol Std #19	50ug/mL Vol Std #20
09-21-11B	0.3	3	5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
09-21-11C	0.5	5	10	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
09-21-11D	1	10	20	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
09-21-11E	2	20	40	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
09-21-11F	5	n/a	n/a	5	10	20	40	80	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
09-21-11G	10	n/a	n/a	10	20	40	80	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
09-21-11H	20	n/a	n/a	20	40	80	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
09-21-11I	40	n/a	n/a	40	80	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
09-21-11J	100	n/a	n/a	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Volatiles Standard Curve Preparation for 10mL Purge (524 water)-NEO

Expiration Date: 09/22/11		09-19-11I		09-19-11D		09-19-11F		09-19-11H		09-19-11J		
Date	Conc.	50ug/mL Vol Std #9	50ug/mL Vol Std #7	50ug/mL Vol Std #8	250ug/mL TAPD	Final Vol	250ug/mL TAPD	Final Vol	250ug/mL TAPD	Final Vol	250ug/mL TAPD	
09-21-11K	0.2	2	n/a	n/a	2	50	2	50	2	50	2	50
09-21-11L	0.5	5	n/a	n/a	5	50	5	50	5	50	5	50
09-21-11M	1	10	n/a	n/a	10	50	10	50	10	50	10	50
09-21-11N	2	20	n/a	n/a	20	50	20	50	20	50	20	50
09-21-11O	5	n/a	5	10	20	50	5	50	5	50	5	50
09-21-11P	10	n/a	10	20	40	50	10	50	10	50	10	50
09-21-11Q	40	n/a	40	80	35	50	40	50	40	50	40	50
09-21-11R	100	n/a	100	100	40	50	100	50	100	50	100	50

250ug/mL TAPD	Final Vol
09-19-11H	50
Exp: 09-28-11	50
3	50
5	50
10	50
15	50
20	50
25	50
30	50
35	50
40	50



AY44799401

65441
AY44799 W01
VOA_Frig

VOLATILES 38083 - 062910

Part #: 38083 Laboratory Use Only - See MSDS
 Lot #: 062910 Exp: 062913 Storage 0 °C
 CWA Volatiles in Non-Potable Water
 Varied in methanol 2 mL
ABSOLUTE STANDARDS, INC. • 800-368-1131

Supplier	ID #	Internal Standard - Sweetpea	Conc.	Lot #	Date	Exp.
02SI	120302-03	Internal Standard Mix	2000	166255-28349	09-14-11A	10/10/11
	020132-02	Fluorobenzene Standard	2000	169170-28739	09-14-11B	10/10/11
J.T.Baker		Purge & Trap MeOH		K07E34-00547	09/12/11	10/14/12

Method 8260 Internal Standard Solution, 2,000 ug/L, 1 mL
 Lot # 166255 Storage 5 to 10 Degrees C Expiry 11/18/12
 Solv: P/T Methanol
 Method 8260 Internal Standard
 Lot #: 166255 - 28350
 Rec: 2/17/11 MFR exp. 11/18/12

Fluorobenzene Solution, 2,000 mg/L, 1 mL
 Lot # 169170 Storage 5 to 6 Degrees C Expiry 2/13/14
 Solv: P/T Methanol
 Fluorobenzene
 Lot #: 169170 - 28738
 Rec: 4/20/11 MFR exp. 02/13/14

CHICO						
09-23-11D						
250ug/ml 8260 Internal Standard - Chico						
				Conc.	Date	
Supplier	ID #		ug/ml	Lot #	Code	
02SI	120302-03	Internal Standard Mix	2000	166255-28350	09-23-11B	
02SI	020132-02	Fluorobenzene Standard	2000	169170-28738	09-23-11C	
J&T Baker		Purge & Trap MeOH		K07834-00547	09/12/11	

9-23-11
RS.

9-24-11
RS.

Volatile Standard Curve Preparation for 10mL Purge (8260 water)-SWEETPEA										
09/24/11										
Date	Conc.	Exp/ml Vol Std #9	Exp/ml Surr	50ug/ml Vol Std #7	50ug/ml Vol Std #8	50ug/ml Surr	50ug/ml Vol Std #10	50ug/ml Vol Std #11	50ug/ml Vol Std #12	50ug/ml Vol Std #13
Code	µg/L	Exp:09-28-11	Exp:09-28-11	Exp:09-28-11	Exp:09-28-11	Exp:09-28-11	Exp:09-28-11	Exp:09-28-11	Exp:09-28-11	Exp:09-28-11
09-23-11E	0.3	3	5	n/a	n/a	n/a	3	n/a	n/a	n/a
09-23-11F	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	n/a
09-23-11G	1	10	20	n/a	n/a	n/a	10	n/a	n/a	n/a
09-23-11H	2	20	40	n/a	n/a	n/a	20	n/a	n/a	n/a
09-23-11I	5	n/a	n/a	5	5	10	n/a	5	n/a	n/a
09-23-11J	10	n/a	n/a	10	10	25	n/a	10	n/a	n/a
09-23-11K	20	n/a	n/a	20	20	40	n/a	20	n/a	n/a
09-23-11L	40	n/a	n/a	40	40	80	n/a	40	n/a	n/a
09-23-11M	100	n/a	n/a	100	100	n/a	n/a	100	n/a	n/a

9-23-11
RS.

9-24-11
RS.

Volatile Standard Curve Preparation for 10mL Purge (8260 water)-CHICO										
09/24/11										
Date	Conc.	Exp/ml Vol Std #9	Exp/ml Surr	50ug/ml Vol Std #7	50ug/ml Vol Std #8	50ug/ml Surr	50ug/ml Vol Std #10	50ug/ml Vol Std #11	50ug/ml Vol Std #12	50ug/ml Vol Std #13
Code	µg/L	Exp:09-28-11	Exp:09-28-11	Exp:09-28-11	Exp:09-28-11	Exp:09-28-11	Exp:09-28-11	Exp:09-28-11	Exp:09-28-11	Exp:09-28-11
09-23-11V	0.3	3	5	n/a	n/a	n/a	3	n/a	n/a	n/a
09-23-11W	0.5	5	10	n/a	n/a	n/a	5	n/a	n/a	n/a
09-23-11X	1	10	20	n/a	n/a	n/a	10	n/a	n/a	n/a
09-23-11Y	2	20	40	n/a	n/a	n/a	20	n/a	n/a	n/a
09-23-11Z	5	n/a	n/a	5	5	10	n/a	5	n/a	n/a
09-23-11A	10	n/a	n/a	10	10	25	n/a	10	n/a	n/a
09-23-11B	20	n/a	n/a	20	20	40	n/a	20	n/a	n/a
09-23-11C	40	n/a	n/a	40	40	80	n/a	40	n/a	n/a
09-23-11D	100	n/a	n/a	100	100	n/a	n/a	100	n/a	n/a

9-23-11
RS.

9-24-11
RS.

9-24-11
RS.

A-

Method 8260 Gases, 2,000
mg/L, 2 X 0.6 ml

Lot # 170302 Storage 5-10 Degree C Expiry 3/11/14

Sub: P/T Methasol

Method 8260 Gases

Lot #: 170302 - 28877

Rec: 4/20/11 MFR exp. 03/11/14

RS.

9-24-11
RS.

B-

n-Hexane Solution, 1,000
mg/L, 1 ml

Lot # 163378 Storage 5-10 Degree C Expiry 8/29/15

Sol: P/T Methasol

n-Hexane Solution

Lot #: 163378 - 29230

Rec: 8/5/11 MFR exp. 08/29/15

RS.

9-24-11
RS.

9-29-11
RS.

Expiration Date:		09/30/11		09/30/11		09/30/11		09/30/11		09/30/11	
Date	Conc.	Suppl. Vol Std #9	Suppl. Vol Std #10	Suppl. Vol Std #11	Suppl. Vol Std #12	Suppl. Vol Std #13	Suppl. Vol Std #14	Suppl. Vol Std #15	Suppl. Vol Std #16	Suppl. Vol Std #17	Suppl. Vol Std #18
Code	ug/L	Exp: 10-05-11	Exp: 10-05-11	Exp: 10-05-11	Exp: 10-05-11	Exp: 10-05-11	Exp: 10-05-11	Exp: 10-05-11	Exp: 10-05-11	Exp: 10-05-11	Exp: 10-05-11
09-29-11A	0.3	3	5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
09-29-11O	0.5	5	10	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
09-29-11P	1	10	20	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
09-29-11Q	2	20	40	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
09-29-11R	5	n/a	n/a	5	10	20	40	80	100	n/a	n/a
09-29-11S	10	n/a	n/a	10	20	40	80	100	n/a	n/a	n/a
09-29-11T	20	n/a	n/a	20	40	80	100	n/a	n/a	n/a	n/a
09-29-11U	40	n/a	n/a	40	80	100	n/a	n/a	n/a	n/a	n/a
09-29-11V	100	n/a	n/a	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a

10-02-11
RS

9-30-11 A-
RS.

4-Bromofluorobenzene
Solution, 2500 mg/L, 1 ml

Lot # 176675-29375
Rec: 8/9/11 MPH exp. 08/02/14

RS.

20ug/ml BPA STD	Conc.	Date	EXP.
EXP: 10-30-11	ug/ml	Lot #	COOR
02SI	020115-03	4-Bromofluorobenzene	2500
J&T Baker	Purge & trap MeOH	R14E06-00551	10/01/11

10-02-11
RS

10-01-11
RS.

Expiration Date:		10/02/11		10/02/11		10/02/11	
Date	Conc.	Suppl. Vol Std #9	Suppl. Vol Std #10	Suppl. Vol Std #11	Suppl. Vol Std #12	Suppl. Vol Std #13	Final Vol w/6.1 H2O
Code	ug/L	Exp: 10-05-11	Exp: 10-05-11	Exp: 10-05-11	Exp: 10-05-11	Exp: 10-05-11	ml
10-01-11A	0.2	2	n/a	n/a	n/a	n/a	50
10-01-11B	0.5	5	n/a	n/a	n/a	n/a	50
10-01-11C	1	10	n/a	n/a	n/a	n/a	50
10-01-11D	2	20	n/a	n/a	n/a	n/a	50
10-01-11E	5	n/a	5	10	20	40	50
10-01-11F	10	n/a	10	20	40	80	50
10-01-11G	40	n/a	40	80	100	n/a	50
10-01-11H	100	n/a	100	n/a	n/a	n/a	50

10-02-11
RS

10-02-11
RS

Volatile Standard Curve Preparation for 10mL Purge (250 water)-MAX

Expiration Date: 10/28/2011		10-28-11J		10-28-11K		10-28-11L		10-28-11M		10-28-11N		10-28-11O		10-28-11P	
Date	Conc. µg/L	50µg/mL Vol Std #9	50µg/mL Surrogate	50µg/mL Vol Std #7	50µg/mL Vol Std #8	50µg/mL Surrogate	50µg/mL Vol Std #10	50µg/mL Vol Std #11	50µg/mL Vol Std #12	50µg/mL Vol Std #13	50µg/mL Vol Std #14	50µg/mL Vol Std #15	50µg/mL Vol Std #16	50µg/mL Vol Std #17	50µg/mL Vol Std #18
10-27-11J	0.5	3	6	n/a	n/a	n/a	3	5	n/a	n/a	n/a	3	5	n/a	n/a
10-27-11K	0.5	5	10	n/a	n/a	n/a	5	10	n/a	n/a	n/a	5	10	n/a	n/a
10-27-11L	1	10	20	n/a	n/a	n/a	10	20	n/a	n/a	n/a	10	20	n/a	n/a
10-27-11M	2	20	40	n/a	n/a	n/a	20	40	n/a	n/a	n/a	20	40	n/a	n/a
10-27-11N	5	n/a	n/a	5	10	n/a	n/a	n/a	5	10	n/a	n/a	n/a	5	10
10-27-11O	10	n/a	n/a	10	20	n/a	n/a	n/a	10	20	n/a	n/a	n/a	10	20
10-27-11P	20	n/a	n/a	20	40	n/a	n/a	n/a	20	40	n/a	n/a	n/a	20	40
10-27-11Q	40	n/a	n/a	40	80	n/a	n/a	n/a	40	80	n/a	n/a	n/a	40	80
10-27-11R	100	n/a	n/a	100	200	n/a	n/a	n/a	100	200	n/a	n/a	n/a	100	200

250µg/mL TAPD	Final Vol
10-28-11O	WP&T H2O
3	50
5	50
10	50
15	50
20	50
25	50
30	50
35	50
40	50

Volatile Standard Curve Preparation for 5mL Purge (250 sol)-NEO

Expiration Date: 10/28/2011		10-28-11J		10-28-11K		10-28-11L		10-28-11M		10-28-11N		10-28-11O		10-28-11P	
Date	Conc. µg/L	50µg/mL Vol Std #9	50µg/mL Surrogate	50µg/mL Vol Std #7	50µg/mL Vol Std #8	50µg/mL Surrogate	50µg/mL Vol Std #10	50µg/mL Vol Std #11	50µg/mL Vol Std #12	50µg/mL Vol Std #13	50µg/mL Vol Std #14	50µg/mL Vol Std #15	50µg/mL Vol Std #16	50µg/mL Vol Std #17	50µg/mL Vol Std #18
10-27-11S	2	2	2	n/a	n/a	n/a	2	2	n/a	n/a	n/a	2	2	n/a	n/a
10-27-11T	5	5	5	n/a	n/a	n/a	5	5	n/a	n/a	n/a	5	5	n/a	n/a
10-27-11U	10	10	10	n/a	n/a	n/a	10	10	n/a	n/a	n/a	10	10	n/a	n/a
10-27-11V	20	20	20	n/a	n/a	n/a	20	20	n/a	n/a	n/a	20	20	n/a	n/a
10-27-11W	50	n/a	n/a	5	5	5	n/a	n/a	5	5	n/a	n/a	n/a	5	5
10-27-11X	100	n/a	n/a	10	10	10	n/a	n/a	10	10	n/a	n/a	n/a	10	10
10-27-11Y	200	n/a	n/a	20	20	20	n/a	n/a	20	20	n/a	n/a	n/a	20	20

250µg/mL TBA	Final Vol
10-28-11O	WP&T H2O
1	5
2	5
3	5
4	5
5	5
6	5
7	5

Volatile Standard Curve Preparation for 5mL Purge (250 sol)-HOR

Expiration Date: 10/28/2011		10-28-11J		10-28-11K		10-28-11L		10-28-11M		10-28-11N		10-28-11O		10-28-11P	
Date	Conc. µg/L	50µg/mL Vol Std #9	50µg/mL Surrogate	50µg/mL Vol Std #7	50µg/mL Vol Std #8	50µg/mL Surrogate	50µg/mL Vol Std #10	50µg/mL Vol Std #11	50µg/mL Vol Std #12	50µg/mL Vol Std #13	50µg/mL Vol Std #14	50µg/mL Vol Std #15	50µg/mL Vol Std #16	50µg/mL Vol Std #17	50µg/mL Vol Std #18
10-27-11Z	2	2	2	n/a	n/a	n/a	2	2	n/a	n/a	n/a	2	2	n/a	n/a
10-27-11AA	5	5	5	n/a	n/a	n/a	5	5	n/a	n/a	n/a	5	5	n/a	n/a
10-27-11AB	10	10	10	n/a	n/a	n/a	10	10	n/a	n/a	n/a	10	10	n/a	n/a
10-27-11AC	20	20	20	n/a	n/a	n/a	20	20	n/a	n/a	n/a	20	20	n/a	n/a
10-27-11AD	50	n/a	n/a	5	5	5	n/a	n/a	5	5	n/a	n/a	n/a	5	5
10-27-11AE	100	n/a	n/a	10	10	10	n/a	n/a	10	10	n/a	n/a	n/a	10	10
10-27-11AF	200	n/a	n/a	20	20	20	n/a	n/a	20	20	n/a	n/a	n/a	20	20

250µg/mL TBA	Final Vol
10-28-11O	WP&T H2O
1	5
2	5
3	5
4	5
5	5
6	5
7	5

10-27-11
RS

10-27-11
RS

10-27-11
RS

10-28-11 A-
RS

Method 8260 Gases, 2,000 mg/L; 2 X 0.6 ml
12016-03
Lot# Storage Expiry
169238 5-10 Days C 2/9/24
Solv: PT Methanol
Method 8260 Gases
Lot #: 169238 - 26662
Rec: 4/20/11 MFR exp. 02/19/14

RS

10-28-11

B-

RS

Hexachloroethane Solution,
1000 mg/L, 1 ml

020049-02

Lot# Storage Expiry
164316 5-10 Degree C 10/14/12
Solv: P/T Methanol

Hexachloroethane

Lot #: 164316 - 28687

Rec: 4/20/11 MFR exp. 10/14/12

PK

10-28-11

B

RS

10-28-11

C-

RS

Benzyl Chloride Solution, 1000
mg/L, 1 ml

020228-02

Lot# Storage Expiry
163373 5-10 Degree C 8/29/12
Solv: P/T Methanol

Benzyl Chloride

Lot #: 163373 - 29168

Rec: 8/5/11 MFR exp. 08/29/12

PK

10-28-11

C

RS

10-28-11

D-

RS

Volatiles Mix, 20-29, 2,000
mg/L, 1 ml

122039-02

Lot# Storage Expiry
163374 5-10 Degree C 8/29/12
Solv: P/T Methanol

Volatiles Mix, 20-29

Lot #: 163374 - 28300

Rec: 2/17/11 MFR exp. 08/29/12

PK

10-28-11

D

RS

10-28-11

E-

RS

Method 8260 VOC Liquids, 54
Compounds, 2,000 mg/L, 1 ml

120023-03

Lot# Storage Expiry
164454 5-10 Degree C 10/14/12
Solv: P/T Methanol

8260 VOC Liquids, 54 Comp.

Lot #: 164454 - 27872

Rec: 12/15/10 MFR exp. 10/04/12

PK

10-28-11

E

RS

10-28-11

F-

RS

Vinyl Acetate Solution,
2,000 mg/L, 1 ml

019432-02

Lot# Storage Expiry
178902 5-10 Degree C 12/15/11
Solv: P/T Methanol

Vinyl Acetate

Lot #: 178902 - 29552

Rec: 8/22/11 MFR exp. 12/15/11

PK

10-28-11

F

RS

10-28-11 B-
RS.

Heptane Solution, 1000
mg/L, 1 ml
11946-83
Lot# Storage Expiry
169174 5-10 Degrees C 2/18/14
Solv: P/T Methanol
Heptane Solution
Lot #: 169174 - 29248
Rec: 8/5/11 MFR exp. 02/18/14

RS

10-28-11 H-
RS.

8260B Surrogate Solution,
2,000 mg/L, 5 x 1 ml
119001-01-SPAK
Lot# Storage Expiry
173249 5-10 Degrees C 5/17/13
Solv: P/T Methanol
8260B Surrogate Solution
Lot #: 173249 - 26847
Rec: 5/25/11 MFR exp. 05/17/13

RS

10-28-11 I-
RS.

VOC Mix 4-3, 2,000 mg/L, 1
ml
118164-01
Lot# Storage Expiry
178651 5-10 Degrees C 9/11/13
Solv: P/T Methanol
VOC Mix 4-3, 2000mg/L
Lot #: 178651 - 29510
Rec: 9/20/11 MFR exp. 09/11/13

RS

10-28-11 J-
RS.

Method 8260 Gases (Second
Source), 2,000 mg/L, 2 X 0.6
ml
110016-03-SS
Lot# Storage Expiry
169033 5-10 Degrees C 1/21/14
Solv: P/T Methanol
8260 Gases (SS)
Lot #: 169033 - 26743
Rec: 4/20/11 MFR exp. 01/21/14

RS

10-28-11K							
50ug/ml Vol Work Std #7							
Exp:11/04/11							
Supplier	ID #	ID	Conc. ug/ml	Lot #	Date Code	Exp. Date	ul
02SI	120016-03	Gas Mix	2000	169238-28692	10-28-11A	11/30/2011	100
02SI	020049-02	HEXACHLOROTHANE	1000	164816-28687	10-28-11B	12/14/2011	200
02SI	020228-02	Benzyl Chloride	1000	163173-29166	10-28-11C	12/14/2011	200
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	1500
10-28-11L							
50ug/ml Vol Work Std #1							
Exp:11/04/11							
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul
02SI	020145-02-02	2-CBVS	2000	160092-26637	10-06-11B	12/7/2011	50
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	1500
10-28-11M							
50ug/ml Vol Work Std #8							
Exp:11/04/11							
Supplier	ID #	ID	Conc. ug/ml	Lot #	Date Code	Exp. Date	ul
02SI	120039-02	Volatile Mix, 20-29	2000	163374-28100	10-28-11D	3/14/2012	100
02SI	120033-03	VOC'S-54 COMP	2000	164454-27872	10-28-11E	3/14/2012	100
02SI	020212-02	Vinyl Acetate	2000	178902-29552	10-28-11F	11/15/2011	100
02SI	020670-02	n-Hexane	1000	163378-27889	10-26-11B	11/14/2011	200
02SI	020846-02	Heptane	1000	169174-29248	10-26-11G	11/14/2011	200
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	3300
10-28-11N							
50ug/ml Vol Work Std #2							
Exp:11/04/11							
Supplier	ID #	ID	ug/ml	Lot #	Date Code	Exp. Date	ul
02SI	121020-05	MSB'S-Ketone Solution	2000	169173-28307	10-12-11B	11/14/2011	100
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	10/14/2012	3900
10-28-11O							
5ug/ml Vol Work Std #9							
Exp: 11/4/2011							
SOURCES	Lot	APPL Code	APPL Exp Date	ul			
50ug/ml Vol Work Std #7	10-28-11K		10/31/2011	200			
50ug/ml Vol Work Std #8	10-28-11M		10/31/2011	200			
J&T Brand	10/6/2011		6/8/2012	1600			
10-28-11P							
5ug/ml Vol Work Std #10							
Exp: 11/4/2011							
SOURCES	Lot	APPL Code	APPL Exp Date	ul			
50ug/ml Vol Work Std #1	10-28-11L		10/31/2011	200			
J&T Brand	10/27/2011		6/8/2012	1600			
10-28-11Q							
5ug/ml Vol Work Std #12							
Exp: 11/4/2011							
SOURCES	Lot	APPL Code	APPL Exp Date	ul			
50ug/ml Vol Work Std #2	10-28-11N		10/31/2011	200			
J&T Brand	10/27/2011		6/8/2012	1800			
10-28-11R							
50ug/ml #260 Surrogate							
Exp:11/04/11							
Supplier	ID #	ID	Conc. ug/ml	Lot #	Date Code	Exp. Date	ul
02SI	120002-01	#260B Surz Solution	2000	173249-28847	10-28-11H	11/14/2011	100
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	1900
10-28-11S							
5.0ug/ml #260 Surrogate							
Exp: 11/4/2011							
Supplier	ID #	ID	Conc. ug/ml	Lot #	Date Code	Exp. Date	ul
J&T Brand		50ug/ml #260 Surrogate		10-28-11R		10/31/2011	200
		Purge & Trap MeOH		K14806-00556		10/27/2011	1800
10-28-11T							
250ug/ml TBA/TBA/Acetonitrile/Cyclohexanone/Acroleln/2-P							
Exp:11/04/11							
Supplier	ID #	ID	Conc. ug/ml	Lot #	Date Code	Exp. Date	ul
02SI	120166-01	Volatile Mix 4-3	2000	178651-29510	10-28-11I	12/17/2011	500
02SI	020229-09	Acrolein	10000	179941-29561	10-19-11H	11/21/2011	100
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	3400

10/28/11
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10/28/11
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10/28/11
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GC/MS STANDARD PREPARATION BOOK # _____ PAGE # 095

10-28-11U							
50ug/ml VOC Std #5							
Exp:11/04/11							
Supplier	ID #	ID	Conc.	Lot #	Date	Exp.	ul
OZSI	120016-02-S9	8260 Gasex (SS)	2000	168028-28743	10-28-11U	11/30/2011	50
OZSI	020145-02-02	2-CBVB	2000	152530-27273	10-19-11U	11/3/2011	50
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	1900

10-28-11V							
50ug/ml VOC Std #6							
Exp:11/04/11							
Supplier	ID #	ID	Conc.	Lot #	Date	Exp.	ul
OZSI	120023-02-S9	VOC'S 54 COMP.	2000	163271-27773	09-12-11V	11/14/2011	50
OZSI	120235-01	Custom 8260 Solution	2000	166038-27763	09-12-11Q	11/14/2011	50
OZSI	020212-02-S9	Vinyl Acetate(SS)	2000	176774-29257	09-12-11R	11/30/2011	50
OZSI	020620-02-S9	n-HEXANE	1000	179199-29615	10-12-11F	12/14/2011	100
OZSI	020049-02-S9	HEXACHLOROBETHANS	1000	154535-25913	09-13-11B	12/29/2011	100
OZSI	020546-02-S9	Heptane(SS)	1000	142276-23593	09-13-11C	12/19/2011	100
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	1900

10-28-11W							
250ug/ml TBA/ISA/Acetonitrile/Cyclohexanone/Acroleln/2-P							
Exp:11/04/11							
Supplier	ID #	ID	Conc.	Lot #	Date	Exp.	ul
OZSI	120166-01-S9	VOC Mix 4-3 (SS)	2000	152531-25468	10-02-11Q	11/3/2011	250
OZSI	020219-09-S9	Acroleln SOLUTION (SS)	10000	178607-29549	10-02-11K	11/21/2011	50
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	1700

10-28-11X							
50ug/ml Vol Work Std #7							
Exp:11/04/11							
Supplier	ID #	ID	Conc.	Lot #	Date	Exp.	ul
OZSI	120016-01	Gas Mix	2000	169238-28682	10-28-11A	11/30/2011	100
OZSI	020049-02	HEXACHLOROBETHANS	1000	164916-28687	10-28-11B	12/14/2011	200
OZSI	020228-02	Benzyl Chloride	1000	163271-29166	10-28-11C	12/14/2011	200
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	3500

10-28-11Y							
50ug/ml Vol Work Std #1							
Exp:11/04/11							
Supplier	ID #	ID	Conc.	Lot #	Date	Exp.	ul
OZSI	020145-02-02	2-CBVB	2000	160092-26637	10-05-11B	12/7/2011	50
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	1900

10-28-11Z							
50ug/ml Vol Work Std #9							
Exp:11/04/11							
Supplier	ID #	ID	Conc.	Lot #	Date	Exp.	ul
OZSI	122033-02	Volatile MIX, 20-29	2000	163374-28200	10-28-11D	2/14/2012	100
OZSI	120023-01	VOC'S 54 COMP	2000	164454-27872	10-28-11E	2/14/2012	100
OZSI	020212-02	Vinyl Acetate	2000	178902-29552	10-28-11F	11/15/2011	100
OZSI	020620-02	n-Hexane	1000	163378-27889	10-28-11B	11/14/2011	200
OZSI	020546-02	Heptane	1000	169174-29248	10-28-11G	11/14/2011	200
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	3300

10-28-11AA							
50ug/ml Vol Work Std #2							
Exp:11/04/11							
Supplier	ID #	ID	Conc.	Lot #	Date	Exp.	ul
OZSI	121020-05	HSL'S-Ketone Solution	2000	169179-28107	10-12-11B	11/14/2011	100
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	10/14/2012	1900

10-28-11AB							
5ug/ml Vol work Std #3							
Exp: 11/4/2011							
SOURCE#	Lot	APPL Code	APPL Exp Date	ul			
50ug/ml Vol Work Std #7	10-28-11X		10/31/2011	200			
50ug/ml Vol Work Std #8	10-28-11Z		10/31/2011	200			
J&T Brand	10/6/2011		6/8/2012	1600			

10-28-11AC							
5ug/ml Vol work Std #10							
Exp: 11/4/2011							
SOURCE#	Lot	APPL Code	APPL Exp Date	ul			
50ug/ml Vol Work Std #1	10-28-11Y		10/31/2011	200			
J&T Brand	10/27/2011		6/8/2012	1900			

10/28/11
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10/28/11
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10-28-11AD		Exp:	11/4/2011		
5ug/ml Vol Work Std #12					
SOURCE:		Lot	APPL Code	APPL Exp Date	ul
50ug/ml Vol Work Std #2			10-28-11AA	10/31/2011	200
J&T Brand			10/27/2011	6/8/2012	1800
10-28-11AE					
50ug/ml #260 Surrogate		Conc.		Date	Exp.
Exp: 11/04/11		ug/ml	Lot #	Code	Date
O2SI 120002-01		6260B Surr Solution	2000	173249-28847	10-28-11H
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011
					6/8/2012
					1800
10-28-11AF		Exp:	11/4/2011		
5.0ug/ml #260 Surrogate		Lot	APPL Code	APPL Exp Date	ul
J&T Brand			10-28-11AA	10/31/2011	200
			K14806-00556	10/27/2011	1800
10-28-11AG					
250ug/ml TBA/10A/Acetonitrile/Cyclohexanone/Acrolein/2-P		Conc.		Date	APPL
Exp: 11/04/11		ug/ml	Lot #	Code	Exp.
Supplier ID #					ul
O2SI 120166-01		Volatile Mix 4-3	2000	178551-29510	10-28-11I
O2SI 020223-09		Acrolein	10000	175941-29661	10-19-11H
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011
					6/8/2012
					1800

10/28/11
RS

10/30/11
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10/30/11
RS

NOTEBOOK INSERT LABEL

Gasoline 47618-U
Lot: LB82077 EXP: FEB/2014 STORAGE: ROOM TEMP. 1 x 1ml
DATE RECEIVED: _____
SPELCO
655 North Harrison Road • Delaware, PA
19823-0048 USA • Phone 814-339-3441

10/30/11 A-
RS

10/30/11
RS

STANDARD TRANSFER LABEL

Date of Preparation: _____ Exp. Date: _____
Reference Number: _____ Storage: EXP: FEB/2014
Description: Gasoline ROOM TEMP.
Lot #: LB82077 - 29133
Rec: 8/4/11 MFR exp. 02/28/14

10/30/11 B-
RS

10/31/11
RS

REST
Cat# 30205
Unleaded Gasoline Composite
Lot #: A076842 - 29141
Rec: 8/4/11 MFR exp. 10/31/17
Unleaded Gasoline Composite Standard
50000 ug/ml each in P&T Methanol
Lot# A076842 Sp. Chr: 10/2017 Stab: FROZ247
Restlet Corporation - 110 Berner Circle - Bala Cynwyd, PA 19323

10/30/11C						APPL
2000ug/ml Gasoline						Exp.
Supplier ID #		Conc.		Date		Date
Supelco LB82077		ug/ml	Lot #	Code		ul
J&T Brand		Gasoline	20,000	LB82077-29133	10-30-11A	11/2/2012
		Purge & Trap MeOH		K14806-00556	10/27/2011	3/2/2012
						1800
10/30/11D						APPL
2000ug/ml Unleaded Gasoline		Conc.		Date		Exp.
Supplier ID #		ug/ml	Lot #	Code		Date
Supelco 30205		Unleaded Gasoline	50,000	A076842-29141	10-30-11B	11/20/2012
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	3/2/2012
						1800

10/30/11
RS

Custom VOC Mix, 16-4, 100
 mg/L, 4 x 1 ml
 12725-03-4PAK
 Lot# Storage Expiry
 162917 2-16 Degreen 8/11/12
 P/T: Michael
 Custom VOC Mix 16-4
 Lot #: 162917 - 27029
 Rec: 8/13/10 MFR exp. 08/11/12

10/31/11
 RS

CHICO RS 12/27/11

Gasoline Curve Preparation for 100mL Purge (w/250 water)-CHICO

Expiration Date: 10/31/2011		Final Vol
Date	Conc. 10-30-11C	w/250 H ₂ O
10-30-11F	20	100
10-30-11G	50	100
10-30-11H	100	100
10-30-11I	300	100
10-30-11J	600	100
10-30-11K	800	100
10-30-11L	1000	100

10/31/11
 RS

Volatile Standard Curve Preparation for 10mL Purge (8250 water)-CHICO

Expiration Date: 10/31/2011		500µg/mL Vol Std #9	500µg/mL Sur	600µg/mL Vol Std #1	600µg/mL Vol Std #2	600µg/mL Sur	800µg/mL Vol Std #10	800µg/mL Sur	800µg/mL Vol Std #11	800µg/mL Sur	800µg/mL Vol Std #12	800µg/mL Sur
Date	Conc.	10-28-11C	10-28-11B	10-28-11K	10-28-11M	10-28-11R	10-28-11P	10-28-11I	10-28-11J	10-28-11H	10-28-11G	10-28-11D
Code	µg/L	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11
10-30-11I	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	n/a	n/a	3
10-30-11J	0.6	6	10	n/a	n/a	n/a	5	n/a	n/a	n/a	n/a	5
10-30-11K	1	10	20	n/a	n/a	n/a	10	n/a	n/a	n/a	n/a	10
10-30-11L	2	20	40	n/a	n/a	n/a	20	n/a	n/a	n/a	n/a	20
10-30-11M	5	n/a	n/a	5	5	10	n/a	5	n/a	n/a	n/a	n/a
10-30-11N	10	n/a	n/a	10	10	25	n/a	10	n/a	n/a	n/a	n/a
10-30-11O	20	n/a	n/a	20	20	40	n/a	20	n/a	n/a	n/a	n/a
10-30-11P	40	n/a	n/a	40	40	80	n/a	40	n/a	n/a	n/a	n/a
10-30-11Q	100	n/a	n/a	100	100	n/a	n/a	100	n/a	n/a	n/a	n/a

10/31/11
 RS

250µg/mL TAPD Final Vol w/250 H₂O

Code	Final Vol
10-28-11I	n/a
Exp:11-04-11	n/a
3	50
5	50
10	50
15	50
20	50
25	50
30	50
35	50
40	50

Volatile Standard Curve Preparation for 10mL Purge (8250 water)-MAX

Expiration Date: 11/1/2011		500µg/mL Vol Std #9	500µg/mL Sur	600µg/mL Vol Std #7	600µg/mL Vol Std #8	600µg/mL Sur	800µg/mL Vol Std #10	800µg/mL Sur	800µg/mL Vol Std #11	800µg/mL Sur	800µg/mL Vol Std #12	800µg/mL Sur
Date	Conc.	10-28-11D	10-28-11E	10-28-11K	10-28-11L	10-28-11R	10-28-11P	10-28-11I	10-28-11J	10-28-11H	10-28-11G	10-28-11F
Code	µg/L	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11	Exp:11-04-11
10-31-11A	0.3	3	6	n/a	n/a	n/a	3	n/a	n/a	n/a	n/a	3
10-31-11B	0.6	6	10	n/a	n/a	n/a	5	n/a	n/a	n/a	n/a	5
10-31-11C	1	10	20	n/a	n/a	n/a	10	n/a	n/a	n/a	n/a	10
10-31-11D	2	20	40	n/a	n/a	n/a	20	n/a	n/a	n/a	n/a	20
10-31-11E	5	n/a	n/a	5	5	10	n/a	5	n/a	n/a	n/a	n/a
10-31-11F	10	n/a	n/a	10	10	25	n/a	10	n/a	n/a	n/a	n/a
10-31-11G	20	n/a	n/a	20	20	40	n/a	20	n/a	n/a	n/a	n/a
10-31-11H	40	n/a	n/a	40	40	80	n/a	40	n/a	n/a	n/a	n/a
10-31-11I	100	n/a	n/a	100	100	n/a	n/a	100	n/a	n/a	n/a	n/a

10/31/11
 RS

250µg/mL TAPD Final Vol w/250 H₂O

Code	Final Vol
10-28-11I	n/a
Exp:11-04-11	n/a
3	50
5	50
10	50
15	50
20	50
25	50
30	50
35	50
40	50

Injection Log

Directory: M:\CHICO\DATA\C111030\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	1030C13W.D	1	20ug/ml BFB Std 10-19-11	Water 2uL	30 Oct 11 22:01
2	1	1030C15W.D	1	Voc Std 10-30-11@0.3ug/L	Water 10mLw/ IS:10-30-11	30 Oct 11 23:28
3	1	1030C16W.D	1	Voc Std 10-30-11@0.5ug/L	Water 10mLw/ IS:10-30-11	31 Oct 11 00:11
4	1	1030C17W.D	1	Voc Std 10-30-11@1.0ug/L	Water 10mLw/ IS:10-30-11	31 Oct 11 00:54
5	1	1030C18W.D	1	Voc Std 10-30-11@2.0ug/L	Water 10mLw/ IS:10-30-11	31 Oct 11 1:37
6	1	1030C19W.D	1	Voc Std 10-30-11@5.0ug/L	Water 10mLw/ IS:10-30-11	31 Oct 11 2:20
7	1	1030C20W.D	1	Voc Std 10-30-11@10ug/L	Water 10mLw/ IS:10-30-11	31 Oct 11 3:03
8	1	1030C21W.D	1	Voc Std 10-30-11@20ug/L	Water 10mLw/ IS:10-30-11	31 Oct 11 3:46
9	1	1030C22W.D	1	Voc Std 10-30-11@40ug/L	Water 10mLw/ IS:10-30-11	31 Oct 11 4:29
10	1	1030C23W.D	1	Voc Std 10-30-11@100ug/L	Water 10mLw/ IS:10-30-11	31 Oct 11 5:12
11	1	1030C28W.D	1	111030A LCS-1WC (SS)	Water 10mLw/ IS&S:10-30/10-26-11	31 Oct 11 8:48
12	1	1030C29W.D	1	GAS 300ug/L (SS)	Water 10mLw/ IS&S:10-30/10-26-11	31 Oct 11 9:31
13	1	1031C01W.D	1	20ug/mL BFB STD10-19-11	Water 2uL	31 Oct 11 19:50
14	1	1031C02W.D	1	Voc Std 10-31-11@10ug/L	Water 10mLw/ IS&S:10-30/10-26-11	31 Oct 11 20:28
15	1	1031C03W.D	1	111031A LCS-1WC	Water 10mLw/ IS&S:10-30/10-26-11	31 Oct 11 21:05
16	1	1031C04W.D	1	111031A CCV-1WC (GAS)	Water 10mLw/ IS&S:10-30/10-26-11	31 Oct 11 21:42
17	1	1031C05W.D	1	111031A LCS-1WC (GAS)	Water 10mLw/ IS&S:10-30/10-26-11	31 Oct 11 22:19
18	1	1031C08W.D	1	111031A BLK-1WC	Water 10mLw/ IS&S:10-30/10-26-11	1 Nov 11 00:10
19	1	1031C10W.D	1	AY49483W01	Water 10mLw/ IS&S:10-30/10-26-11	1 Nov 11 1:25
20	1	1031C11W.D	1	AY49481W04	Water 10mLw/ IS&S:10-30/10-26-11	1 Nov 11 2:02
21	1	1031C12W.D	1	AY49482W04	Water 10mLw/ IS&S:10-30/10-26-11	1 Nov 11 2:39

METALS

APPL, INC.

METALS
QC Summary

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
6020	LEAD (PB) (DISSOL	0.19 J	0.5	0.22	0.11	ug/L	11/10/11	11/11/11	#602D-111110A-AY49334

J = Estimated value.

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
6020	LEAD (PB) (DISSOLVED)	50.0	50.0	100	80-120	11/10/2011	1/11/2011	#602D-111110A-AY49334

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Comments:

METALS
Sample Data

APPL, INC.

Metals Analysis

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

Attn: Stacey Fineran
Project: RED HILL/1022-024

Sample ID: ES050
Sample Collection Date: 10/25/2011

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 66116
APPL ID: AY49481

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
6020	LEAD (PB) (DISSOLVED)	0.22U	0.5	0.22	0.11	ug/L	1	11/10/2011	11/11/2011

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\053SMPL.D\053SMPL.D#
 Date Acquired: Nov 11 2011 05:12 pm
 Operator: NBS
 Sample Name: AY49481W13
 Misc Info: 11110A-3015
 Vial Number: 3209
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: Sample
 Prep Dil Factor: 1.11
 Total Dil Factor: 1.11

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	----- ug/l	#VALUE!	-----	0	
9 Be	-0.01 ug/l	-0.01	4.26	1000	
11 B	27.82 ug/l	30.91	1.18	1000	
23 Na	41990.00 ug/l	46650.89	0.41	25000	>Cal
24 Mg	18990.00 ug/l	21097.89	0.44	50000	
27 Al	6.11 ug/l	6.79	2.06	20000	
39 K	2667.00 ug/l	2963.04	0.64	20000	
44 Ca	21120.00 ug/l	23464.32	0.31	50000	
47 Ti	0.40 ug/l	0.44	12.87	1000	
51 V	13.09 ug/l	14.54	0.95	1000	
52 Cr	1.92 ug/l	2.14	1.01	1000	
55 Mn	0.30 ug/l	0.34	4.52	1000	
56 Fe	9.15 ug/l	10.17	1.28	20000	
59 Co	-0.21 ug/l	-0.23	2.56	1000	
60 Ni	0.20 ug/l	0.22	9.01	1000	
63 Cu	-0.10 ug/l	-0.11	29.63	1000	
65 Cu	-0.10 ug/l	-0.11	36.81	1000	
66 Zn	2.50 ug/l	2.77	1.88	1000	
75 As	-0.28 ug/l	-0.32	6.39	1000	
78 Se	0.21 ug/l	0.24	4.62	1000	
78 Se	0.27 ug/l	0.30	37.39	1000	
88 Sr	168.50 ug/l	187.20	0.61	1000	
88 Sr	171.90 ug/l	190.98	0.39	1000	
95 Mo	0.31 ug/l	0.35	2.97	1000	
106 (Cd)	----- ug/l	#VALUE!	-----	#####	
107 Ag	0.03 ug/l	0.03	7.78	500	
108 (Cd)	----- ug/l	#VALUE!	-----	#####	
111 Cd	0.01 ug/l	0.01	21.82	1000	
118 Sn	0.08 ug/l	0.09	11.49	1000	
121 Sb	0.29 ug/l	0.32	5.02	1000	
137 Ba	8.69 ug/l	9.66	0.85	1000	
205 Tl	0.01 ug/l	0.01	13.70	1000	
206 (Pb)	----- ug/l	#VALUE!	-----	#####	
207 (Pb)	----- ug/l	#VALUE!	-----	#####	
208 Pb	-0.18 ug/l	-0.20	2.55	1000	

ISTD Elements

Element	CPS	Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3071918.00	0.90	2775704.50	110.7	70 - 120		
45 Sc	618612.88	0.32	500780.41	123.5	70 - 120	IS Fai	
45 Sc	102632.55	1.50	95494.08	107.5	70 - 120		
45 Sc	1965252.00	0.62	1460980.80	134.5	70 - 120	IS Fai	
72 Ge	105366.53	0.74	96219.04	109.5	70 - 120		
72 Ge	48136.11	1.31	43611.78	110.4	70 - 120		
72 Ge	232920.81	0.18	213204.63	109.2	70 - 120		
115 In	1508931.90	0.60	1381264.00	109.2	70 - 120		
159 Tb	2069595.90	0.43	1843940.90	112.2	70 - 120		
165 Ho	2042392.10	0.82	1844184.90	110.7	70 - 120		

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
 2 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Fail

Metals Analysis

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

Attn: Stacey Fineran
Project: RED HILL/1022-024

Sample ID: ES051
Sample Collection Date: 10/25/2011

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 66116
APPL ID: AY49482

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
6020	LEAD (PB) (DISSOLVED)	0.22U	0.5	0.22	0.11	ug/L	1	11/10/2011	11/11/2011

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\054SMPL.D\054SMPL.D#
 Date Acquired: Nov 11 2011 05:19 pm
 Operator: NBS
 Sample Name: AY49482W13
 Misc Info: 111110A-3015
 Vial Number: 3210
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: Sample
 Prep Dil Factor: 1.11
 Total Dil Factor: 1.11

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	----- ug/l	#VALUE!	-----	0	
9 Be	-0.01 ug/l	-0.01	11.67	1000	
11 B	130.80 ug/l	145.32	1.18	1000	
23 Na	42320.00 ug/l	47017.52	0.42	25000	>Cal
24 Mg	11100.00 ug/l	12332.10	0.57	50000	
27 Al	9.34 ug/l	10.38	0.42	20000	
39 K	1975.00 ug/l	2194.23	0.54	20000	
44 Ca	8999.00 ug/l	9997.89	0.75	50000	
47 Ti	0.72 ug/l	0.80	12.35	1000	
51 V	22.81 ug/l	25.34	0.80	1000	
52 Cr	3.29 ug/l	3.65	1.02	1000	
55 Mn	0.40 ug/l	0.45	1.82	1000	
56 Fe	8.83 ug/l	9.81	1.16	20000	
59 Co	-0.19 ug/l	-0.21	0.98	1000	
60 Ni	0.31 ug/l	0.34	4.28	1000	
63 Cu	-0.33 ug/l	-0.37	5.83	1000	
65 Cu	-0.35 ug/l	-0.39	3.31	1000	
66 Zn	4.66 ug/l	5.18	1.67	1000	
75 As	-0.26 ug/l	-0.29	11.56	1000	
78 Se	0.12 ug/l	0.13	21.91	1000	
78 Se	0.25 ug/l	0.28	8.34	1000	
88 Sr	81.05 ug/l	90.05	0.46	1000	
88 Br	82.34 ug/l	91.48	0.54	1000	
95 Mo	0.68 ug/l	0.75	5.17	1000	
106 (Cd)	----- ug/l	#VALUE!	-----	#####	
107 Ag	0.04 ug/l	0.05	4.87	500	
108 (Cd)	----- ug/l	#VALUE!	-----	#####	
111 Cd	0.02 ug/l	0.02	38.58	1000	
118 Sn	0.26 ug/l	0.29	4.40	1000	
121 Sb	0.26 ug/l	0.29	3.62	1000	
137 Ba	4.47 ug/l	4.97	0.62	1000	
205 Tl	0.01 ug/l	0.02	10.34	1000	
206 (Pb)	----- ug/l	#VALUE!	-----	#####	
207 (Pb)	----- ug/l	#VALUE!	-----	#####	
208 Pb	-0.12 ug/l	-0.13	6.89	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3156819.00	1.53	2775704.50	113.7	70 - 120	
45 Sc	622384.19	1.03	500780.41	124.3	70 - 120	IS Fai
45 Sc	103697.35	1.49	95494.08	108.6	70 - 120	
45 Sc	2011178.80	1.55	1460980.80	137.7	70 - 120	IS Fai
72 Ge	105189.25	1.41	96219.04	109.3	70 - 120	
72 Ge	47683.46	1.84	43611.78	109.3	70 - 120	
72 Ge	234387.94	0.52	213204.63	109.9	70 - 120	
115 In	1517896.50	0.84	1381264.00	109.9	70 - 120	
159 Tb	2061836.30	0.68	1843940.90	111.8	70 - 120	
165 Ho	2060669.90	0.85	1844184.90	111.7	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
 2 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Fail

METALS
Calibration Data



A.P.P.L. INC.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.ARF No: 66116 SDG: 66116Initial Calibration Source: CPIContinuing Calibration Source: Environmental ExpressAnalysis Date: 11/11/2011 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 12:39	%R(1)	True CCV1	Found 13:03	%R(1)	True CCV1	Found 13:33	%R(1)	
Lead (Pb)	100	106.3	106	50	50.31	101	50	50.34	101	P

A.P.P.L. INC.
2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No: 66116 SDG: 66116

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 11/11/2011 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 12:39	%R(1)	True CCV1	Found 15:05	%R(1)	True CCV1	Found 16:30	%R(1)	
Lead (Pb)	100	106.3	106	50	49.96	99.9	50	50.41	101	P

A.P.P.L. INC.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No: 66116 SDG: 66116

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 11/11/2011 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 12:39	%R(1)	True CCVI	Found 18:04	%R(1)	True	Found	%R(1)	
Lead (Pb)	100	106.3	106	50	48.04	96.1				P

A.P.P.L. INC.

3

BLANKS

Lab Name: A.P.P.L. INC.

Contract: Environet, Inc.

ARF No.: 66116

SDG: 66116

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analysis Date: 11/11/2011

Analyte	Initial Calibration Blank (ug/L) C	Continuing Calibration Blank (ug/L)						Preparation Blank C	M
		1 C	2 C	3 C	4 C	5 C	6 C		
	12:57	13:09	13:46	15:17			14:16		
Lead (Pb)	.50 U	.50 U	.50 U	.50 U	.50 U	.50 U	.19 J	P	

A.P.P.L. INC.

3

BLANKS

Lab Name: A.P.P.L. INC.

Contract: Environet, Inc.

ARF No.: 66116

SDG: 66116

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analysis Date: 11/11/2011

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M	
		C	1	C	2	C	3	C		C		
	12:57		16:42		18:16					14:16		
Lead (Pb)	.50	U	.50	U	.50	U				.19	J	P

A.P.P.L. INC.

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: A.P.P.L. INC.

Contract: Environet, Inc.

ARF No.: 66116

SDG: 66116

ICP ID Number: Optimus

ICS Source: Environmental Express

Analysis Date: 11/11/2011

Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 13:15	Sol AB 13:21	%R(1)
Lead (Pb)		500	3,499	502	100

(1) Control Limits: Metals 80-120

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\004CAL
 Date Acquired: Nov 11 2011 12:08 pm
 Operator: NBS
 Sample Name: Calibration Blank
 Misc Info:
 Vial Number: 1102
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:06 pm
 Sample Type: CalBlk
 Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean	SD	RSD(%)
6 Li	2775705.00 A	31080.00	1.12
7 (Li)	152897.91 P	508.10	0.33
9 Be	164.45 P	15.75	9.58
11 B	9503.37 P	213.80	2.25
23 Na	81958.40 P	248.30	0.30
24 Mg	134.45 P	6.94	5.16
27 Al	111.12 P	16.78	15.10
39 K	60334.78 P	2276.00	3.77
44 Ca	384.84 P	48.59	12.63
45 Sc	500780.41 P	2032.00	0.41
45 Sc	95494.08 P	252.60	0.26
45 Sc	1460981.00 A	25510.00	1.75
47 Ti	4.89 P	0.77	15.75
51 V	3955.25 P	110.20	2.79
52 Cr	547.13 P	20.02	3.66
55 Mn	165.78 P	8.57	5.17
56 Fe	5746.57 P	137.00	2.38
59 Co	1492.99 P	62.44	4.18
60 Ni	69.78 P	22.72	32.56
63 Cu	2222.87 P	55.11	2.48
65 Cu	1076.95 P	27.98	2.60
66 Zn	207.12 P	12.10	5.84
72 Ge	96219.04 P	484.10	0.50
72 Ge	43611.78 P	490.40	1.12
72 Ge	213204.59 P	1657.00	0.78
75 As	266.34 P	7.21	2.71
78 Se	4.67 P	1.53	32.74
78 Se	30.00 P	1.16	3.85
88 Sr	48.89 P	8.39	17.16
88 Sr	188.90 P	11.71	6.20
95 Mo	111.12 P	22.69	20.42
106 (Cd)	31.11 P	10.18	32.72
107 Ag	35.56 P	13.47	37.88
108 (Cd)	27.78 P	5.09	18.33
111 Cd	0.12 P	4.33	3513.10
115 In	1381264.00 A	15790.00	1.14
118 Sn	495.58 P	60.50	12.21
121 Sb	323.35 P	35.28	10.91
137 Ba	91.12 P	13.47	14.78
159 Tb	1843941.00 A	33820.00	1.83
165 Ho	1844185.00 A	22050.00	1.20
205 Tl	78.89 P	5.09	6.45
206 (Pb)	1670.17 P	51.97	3.11
207 (Pb)	1455.69 P	79.06	5.43
208 Pb	6738.71 P	70.43	1.05

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\005CALC.D\005CALC.D#
 Date Acquired: Nov 11 2011 12:14 pm
 Operator: NBS
 Sample Name: 111111 Standard 1
 Misc Info:
 Vial Number: 1103
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:12 pm
 Sample Type: CalStd
 Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean	SD	RSD(%)	Cal Coef
6 Li	2934478.00 A	12100.00	0.41	0.0000
7 (Li)	160812.41 P	1266.00	0.79	0.0000
9 Be	1031.18 P	27.15	2.63	0.0000
11 B	10014.79 P	224.80	2.24	0.0000
23 Na	101764.30 P	5296.00	5.20	0.0000
24 Mg	2435.84 P	56.81	2.33	0.0000
27 Al	465.58 P	50.04	10.75	0.0000
39 K	63456.74 P	1758.00	2.77	0.0000
44 Ca	441.03 P	5.03	1.14	0.0000
45 Sc	483714.81 P	17820.00	3.68	0.0000
45 Sc	96706.18 P	602.60	0.62	0.0000
45 Sc	1494561.00 A	14240.00	0.95	0.0000
47 Ti	16.89 P	3.36	19.87	0.0000
51 V	4556.33 P	51.66	1.13	0.0000
52 Cr	876.48 P	32.73	3.73	0.0000
55 Mn	7451.77 P	52.30	0.70	0.0000
56 Fe	12699.44 P	213.90	1.68	0.0000
59 Co	1820.58 P	82.65	4.54	0.0000
60 Ni	166.23 P	12.10	7.28	0.0000
63 Cu	3334.65 P	61.70	1.85	0.0000
65 Cu	1647.67 P	94.43	5.73	0.0000
66 Zn	231.56 P	11.34	4.90	0.0000
72 Ge	93081.49 P	2181.00	2.34	0.0000
72 Ge	43620.24 P	387.20	0.89	0.0000
72 Ge	210910.70 P	1414.00	0.67	0.0000
75 As	300.78 P	7.07	2.35	0.0000
78 Se	21.00 P	2.60	12.40	0.0000
78 Se	30.33 P	6.33	20.88	0.0000
88 Sr	303.35 P	25.17	8.30	0.0000
88 Sr	1913.54 P	79.67	4.16	0.0000
95 Mo	385.58 P	18.36	4.76	0.0000
106 (Cd)	51.11 P	6.94	13.58	0.0000
107 Ag	447.80 P	37.47	8.37	0.0000
108 (Cd)	28.89 P	17.10	59.19	0.0000
111 Cd	182.07 P	18.49	10.16	0.0000
115 In	1383497.00 A	12980.00	0.94	0.0000
118 Sn	901.17 P	20.10	2.23	0.0000
121 Sb	988.96 P	26.95	2.73	0.0000
137 Ba	304.46 P	49.48	16.25	0.0000
159 Tb	1838841.00 A	19950.00	1.08	0.0000
165 Ho	1842078.00 A	20850.00	1.13	0.0000
205 Tl	1497.92 P	40.19	2.68	0.0000
206 (Pb)	2154.70 P	105.60	4.90	0.0000
207 (Pb)	1842.42 P	104.10	5.65	0.0000
208 Pb	8565.85 P	320.10	3.74	0.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2934478.30	0.41	2775704.50	105.7	70 -	120
45 Sc	483714.78	3.68	500780.41	96.6	70 -	120
45 Sc	96706.18	0.62	95494.08	101.3	70 -	120
45 Sc	1494561.00	0.95	1460980.80	102.3	70 -	120
72 Ge	93081.49	2.34	96219.04	96.7	70 -	120
72 Ge	43620.24	0.89	43611.78	100.0	70 -	120
72 Ge	210910.72	0.67	213204.63	98.9	70 -	120
115 In	1383496.90	0.94	1381264.00	100.2	70 -	120
159 Tb	1838841.50	1.08	1843940.90	99.7	70 -	120
165 Ho	1842078.10	1.13	1844184.90	99.9	70 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALC.D\004CALC.D#

--- :Element Failures --- :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass
 ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\006CAL5.D\006CAL5.D#
 Date Acquired: Nov 11 2011 12:20 pm
 Operator: NBS
 Sample Name: 111111 Standard 2
 Misc Info:
 Vial Number: 1104
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:18 pm
 Sample Type: CalStd
 Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean	SD	RSD(%)	Cal Coef
6 Li	3013436.00 A	14250.00	0.47	0.0000
7 (Li)	162843.41 P	655.10	0.40	1.0000
9 Be	10180.43 P	411.30	4.04	1.0000
11 B	16379.42 P	483.40	2.95	1.0000
23 Na	196689.50 P	7056.00	3.59	1.0000
24 Mg	23141.91 P	43.26	0.19	1.0000
27 Al	4021.80 P	226.90	5.64	1.0000
39 K	76357.12 P	2463.00	3.23	1.0000
44 Ca	1793.11 P	71.50	3.99	1.0000
45 Sc	510541.00 P	4569.00	0.89	0.0000
45 Sc	97262.66 P	635.50	0.65	0.0000
45 Sc	1465690.00 A	21530.00	1.47	0.0000
47 Ti	156.45 P	19.06	12.10	1.0000
51 V	8092.94 P	134.80	1.67	1.0000
52 Cr	4117.09 P	42.23	1.03	1.0000
55 Mn	61442.06 P	651.50	1.06	1.0000
56 Fe	82436.35 P	925.30	1.12	1.0000
59 Co	6109.79 P	52.36	0.86	1.0000
60 Ni	1383.64 P	28.30	2.05	1.0000
63 Cu	15516.40 P	233.60	1.51	1.0000
65 Cu	7559.83 P	73.09	0.97	1.0000
66 Zn	1430.31 P	74.87	5.23	1.0000
72 Ge	96818.69 P	1004.00	1.04	0.0000
72 Ge	44609.64 P	326.50	0.73	0.0000
72 Ge	203708.30 P	1751.00	0.86	0.0000
75 As	639.35 P	17.53	2.74	1.0000
78 Se	175.22 P	7.34	4.19	1.0000
78 Se	81.11 P	6.83	8.43	1.0000
88 Sr	3138.24 P	234.10	7.46	1.0000
88 Sr	17034.09 P	556.30	3.27	1.0000
95 Mo	3096.01 P	35.02	1.13	1.0000
106 (Cd)	180.01 P	18.56	10.31	1.0000
107 Ag	4028.49 P	77.05	1.91	1.0000
108 (Cd)	138.89 P	13.47	9.70	1.0000
111 Cd	1685.97 P	41.67	2.47	1.0000
115 In	1324038.00 A	6932.00	0.52	0.0000
118 Sn	5423.48 P	180.10	3.32	1.0000
121 Sb	6328.31 P	130.20	2.06	1.0000
137 Ba	2328.06 P	139.60	6.00	1.0000
159 Tb	1820559.00 A	17780.00	0.98	0.0000
165 Ho	1818461.00 A	19460.00	1.07	0.0000
205 Tl	15160.28 P	220.10	1.45	1.0000
206 (Pb)	7664.74 P	91.74	1.20	1.0000
207 (Pb)	7014.34 P	72.68	1.04	1.0000
208 Pb	31156.53 P	401.40	1.29	1.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3013436.30	0.47	2776704.50	108.6	70 -	120
45 Sc	510541.06	0.89	500780.41	101.9	70 -	120
45 Sc	97262.66	0.65	95494.08	101.9	70 -	120
45 Sc	1465690.00	1.47	1460980.80	100.3	70 -	120
72 Ge	96818.70	1.04	96219.04	100.6	70 -	120
72 Ge	44609.64	0.73	43611.78	102.3	70 -	120
72 Ge	203708.33	0.86	213204.63	95.5	70 -	120
115 In	1324038.00	0.52	1381264.00	95.9	70 -	120
159 Tb	1820559.10	0.98	1843940.90	98.7	70 -	120
165 Ho	1818460.60	1.07	1844184.90	98.6	70 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass
 ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\11K1100.B\007CAL5.D\007CAL5.D#
 Date Acquired: Nov 11 2011 12:27 pm
 Operator: NBS
 Sample Name: 111111 Standard 3
 Misc Info:
 Vial Number: 1105
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:24 pm
 Sample Type: CalStd
 Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean	SD	RSD(%)	Cal Coef
6 Li	3129745.00 A	45260.00	1.45	0.0000
7 (Li)	169858.91 P	576.50	0.34	0.7236
9 Be	529831.50 P	2404.00	0.45	0.9999
11 B	352525.41 P	4097.00	1.16	0.9985
23 Na	1470286.00 A	17010.00	1.16	0.9979
24 Mg	1292662.00 A	17130.00	1.33	1.0000
27 Al	182025.00 P	2356.00	1.29	1.0000
39 K	502725.09 P	1262.00	0.25	0.9983
44 Ca	52265.13 P	789.60	1.51	0.9983
45 Sc	522323.31 P	4813.00	0.92	0.0000
45 Sc	98761.96 P	1402.00	1.42	0.0000
45 Sc	1523925.00 A	17440.00	1.14	0.0000
47 Ti	6316.10 P	62.52	0.99	0.9998
51 V	161320.00 P	2272.00	1.41	0.9994
52 Cr	179336.20 P	1262.00	0.70	1.0000
55 Mn	136966.41 P	806.40	0.59	0.9998
56 Fe	3466730.00 A	34680.00	1.00	1.0000
59 Co	254063.59 P	2599.00	1.02	0.9995
60 Ni	64869.85 P	659.40	1.02	0.9997
63 Cu	172209.41 P	983.40	0.57	0.9999
65 Cu	82567.48 P	346.90	0.42	1.0000
66 Zn	30294.80 P	353.70	1.17	0.9973
72 Ge	98255.19 P	550.50	0.56	0.0000
72 Ge	46262.58 P	34.38	0.07	0.0000
72 Ge	211131.20 P	2095.00	0.99	0.0000
75 As	20258.79 P	48.21	0.24	1.0000
78 Se	8196.34 P	137.70	1.68	1.0000
78 Se	2352.20 P	19.65	0.84	0.9953
88 Sr	152226.41 P	2676.00	1.76	0.9999
88 Sr	853159.19 P	3826.00	0.45	1.0000
95 Mo	152546.09 P	1308.00	0.86	0.9999
106 (Cd)	7779.08 P	43.36	0.56	0.9995
107 Ag	203275.00 P	1362.00	0.67	1.0000
108 (Cd)	5850.30 P	115.70	1.98	0.9966
111 Cd	85595.10 P	417.50	0.49	1.0000
115 In	1359449.00 A	15030.00	1.11	0.0000
118 Sn	233787.30 P	2145.00	0.92	0.9998
121 Sb	303264.81 P	1162.00	0.38	1.0000
137 Ba	112289.00 P	1153.00	1.03	1.0000
159 Tb	1852128.00 A	3859.00	0.21	0.0000
165 Ho	1866389.00 A	18420.00	0.99	0.0000
205 Tl	767163.63 P	3647.00	0.48	1.0000
206 (Pb)	267422.81 P	439.20	0.16	0.9998
207 (Pb)	229702.30 P	967.40	0.42	0.9996
208 Pb	1066559.00 P	3421.00	0.32	0.9997

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3129745.00	1.45	2775704.50	112.8	70 -	120
45 Sc	522323.34	0.92	500780.41	104.3	70 -	120
45 Sc	98761.96	1.42	95494.08	103.4	70 -	120
45 Sc	1523925.40	1.14	1460980.80	104.3	70 -	120
72 Ge	98255.19	0.56	98219.04	102.1	70 -	120
72 Ge	46262.59	0.07	43611.78	106.1	70 -	120
72 Ge	211131.19	0.99	213204.63	99.0	70 -	120
115 In	1359449.00	1.11	1381264.00	98.4	70 -	120
159 Tb	1852128.10	0.21	1843940.90	100.4	70 -	120
165 Ho	1866389.00	0.99	1844184.90	101.2	70 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\11K1100.B\004CAL5.D\004CAL5.D#

--- :Element Failures --- :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
 Analytes: Pass
 ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\008CAL5.D\008CAL5.D#
 Date Acquired: Nov 11 2011 12:33 pm
 Operator: NBS
 Sample Name: 111111 Standard 4
 Misc Info:
 Vial Number: 1106
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:30 pm
 Sample Type: CalStd
 Total Dil Factor: 1.00

Element	CPS Mean	SD	RSD(%)	Cal Coef
6 Li	3091825.00 A	34660.00	1.12	0.0000
7 (Li)	169207.09 P	2476.00	1.46	0.7966
9 Be	1184909.00 A	5168.00	0.44	1.0000
11 B	825041.63 A	8516.00	1.03	1.0000
23 Na	2686206.00 A	10730.00	0.40	0.9984
24 Mg	2535966.00 A	10300.00	0.41	1.0000
27 Al	366543.31 P	3283.00	0.90	1.0000
39 K	1039409.00 A	8793.00	0.85	0.9999
44 Ca	104136.20 P	1221.00	1.17	1.0000
45 Sc	526807.38 P	1501.00	0.28	0.0000
45 Sc	100637.20 P	272.50	0.27	0.0000
45 Sc	1546820.00 A	41280.00	2.67	0.0000
47 Ti	12883.09 P	335.40	2.60	1.0000
51 V	324487.59 P	1452.00	0.45	1.0000
52 Cr	360663.69 P	2389.00	0.66	1.0000
55 Mn	247566.30 P	2862.00	1.16	0.9063
56 Fe	6831163.00 A	89870.00	1.32	1.0000
59 Co	505973.59 P	1092.00	0.22	1.0000
60 Ni	128756.60 P	486.80	0.38	1.0000
63 Cu	331294.91 P	1236.00	0.37	0.9984
65 Cu	158678.41 P	595.70	0.38	0.9983
66 Zn	58476.31 P	247.90	0.42	0.9998
72 Ge	100101.50 P	582.20	0.58	0.0000
72 Ge	46752.66 P	94.61	0.20	0.0000
72 Ge	215920.09 P	4942.00	2.29	0.0000
75 As	41314.20 P	335.50	0.81	1.0000
78 Se	16782.86 P	111.00	0.66	1.0000
78 Se	4841.04 P	45.62	0.94	1.0000
88 Sr	308415.19 P	2179.00	0.71	1.0000
88 Sr	1836004.00 A	12020.00	0.65	1.0000
95 Mo	308376.41 P	620.60	0.20	1.0000
106 (Cd)	15606.90 P	85.03	0.54	1.0000
107 Ag	402429.69 P	2133.00	0.53	1.0000
108 (Cd)	11351.61 P	175.20	1.54	1.0000
111 Cd	169137.09 P	1111.00	0.66	1.0000
115 In	1356694.00 A	39030.00	2.88	0.0000
118 Sn	461432.81 P	1252.00	0.27	1.0000
121 Sb	616792.50 P	2811.00	0.46	1.0000
137 Ba	224905.80 P	424.60	0.19	1.0000
159 Tb	1896056.00 A	51090.00	2.69	0.0000
165 Ho	1892444.00 A	47210.00	2.49	0.0000
205 Tl	1621888.00 A	15450.00	0.95	1.0000
206 (Pb)	524239.50 P	2392.00	0.46	1.0000
207 (Pb)	454785.81 P	2844.00	0.63	1.0000
208 Pb	2164409.00 A	4337.00	0.20	1.0000

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3091824.50	1.12	2775704.50	111.4	70 -	120
45 Sc	526807.44	0.28	500780.41	105.2	70 -	120
45 Sc	100637.22	0.27	95494.08	105.4	70 -	120
45 Sc	1546819.60	2.67	1460980.80	105.9	70 -	120
72 Ge	100101.52	0.58	96219.04	104.0	70 -	120
72 Ge	46752.66	0.20	43611.78	107.2	70 -	120
72 Ge	215920.11	2.29	213204.63	101.3	70 -	120
115 In	1356693.50	2.88	1381264.00	98.2	70 -	120
159 Tb	1896055.90	2.69	1843940.90	102.8	70 -	120
165 Ho	1892443.90	2.49	1844184.90	102.6	70 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
 Analytes: Pass
 ISTD: Pass

QCS QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\009_QCS.D\009_QCS.D#
 Date Acquired: Nov 11 2011 12:39 pm
 Operator: NBS
 Sample Name: ICV 111111
 Misc Info:
 Vial Number: 1107
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: QCS
 Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	Expected QC Range(%)	Flag
7 (Li)	----- ug/l	-----	100.00 90 - 110	
9 Be	107.60 ug/l	0.95	100.00 90 - 110	
11 B	105.70 ug/l	0.67	100.00 90 - 110	
23 Na	2518.00 ug/l	0.81	2500.00 90 - 110	
24 Mg	2533.00 ug/l	0.67	2500.00 90 - 110	
27 Al	2547.00 ug/l	1.32	2500.00 90 - 110	
39 K	2615.00 ug/l	0.71	2500.00 90 - 110	
44 Ca	2519.00 ug/l	0.47	2500.00 90 - 110	
47 Ti	97.29 ug/l	0.90	100.00 90 - 110	
51 V	103.40 ug/l	0.55	100.00 90 - 110	
52 Cr	106.50 ug/l	0.63	100.00 90 - 110	
55 Mn	106.70 ug/l	0.21	100.00 90 - 110	
56 Fe	2516.00 ug/l	1.06	2500.00 90 - 110	
59 Co	104.60 ug/l	0.25	100.00 90 - 110	
60 Ni	104.70 ug/l	0.28	100.00 90 - 110	
63 Cu	102.50 ug/l	1.70	100.00 90 - 110	
65 Cu	102.20 ug/l	1.45	100.00 90 - 110	
66 Zn	104.10 ug/l	1.10	100.00 90 - 110	
75 As	98.86 ug/l	1.38	100.00 90 - 110	
78 Se	103.60 ug/l	1.81	100.00 90 - 110	
78 Se	104.10 ug/l	2.03	100.00 90 - 110	
88 Sr	101.20 ug/l	1.63	100.00 90 - 110	
88 Sr	104.30 ug/l	0.60	100.00 90 - 110	
95 Mo	96.15 ug/l	1.35	100.00 90 - 110	
106 (Cd)	----- ug/l	-----	100.00 90 - 110	
107 Ag	46.26 ug/l	0.71	50.00 90 - 110	
108 (Cd)	----- ug/l	-----	100.00 90 - 110	
111 Cd	103.60 ug/l	0.47	100.00 90 - 110	
118 Sn	43.82 ug/l	0.17	50.00 90 - 110	Fail
121 Sb	102.70 ug/l	0.18	100.00 90 - 110	
137 Ba	99.56 ug/l	0.34	100.00 90 - 110	
205 Tl	106.40 ug/l	1.20	100.00 90 - 110	
206 (Pb)	----- ug/l	-----	100.00 90 - 110	
207 (Pb)	----- ug/l	-----	100.00 90 - 110	
208 Pb	106.30 ug/l	0.89	100.00 90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3157481.00	0.39	2775704.50	113.8	70 - 120	
45 Sc	523431.13	0.16	500780.41	104.5	70 - 120	
45 Sc	100384.52	0.40	95494.08	105.1	70 - 120	
45 Sc	1532510.60	0.50	1460980.80	104.9	70 - 120	
72 Ge	99727.78	0.25	96219.04	103.6	70 - 120	
72 Ge	46938.75	0.91	43611.78	107.6	70 - 120	
72 Ge	212917.78	0.32	213204.63	99.9	70 - 120	
115 In	1371120.50	0.09	1381264.00	99.3	70 - 120	
159 Tb	1873353.00	0.83	1843940.90	101.6	70 - 120	
165 Ho	1868336.50	1.05	1844184.90	101.3	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

1 : Element Failures 0 : Max. Number of Failures Allowed
 0 : ISTD Failures 0 : Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\012_CCB.D\012_CCB.D#
 Date Acquired: Nov 11 2011 12:57 pm
 Operator: NBS
 Sample Name: ICB 111111
 Misc Info:
 Vial Number: 1102
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Elements	Element	Conc.	RSD(%)	High Limit	Flag
	7 [Li]	----- ug/l	-----	#VALUE!	
	9 Be	0.00 ug/l	64.25	0.12	
	11 B	0.03 ug/l	45.15	15.00	
	23 Na	7.71 ug/l	8.10	77.10	
	24 Mg	0.10 ug/l	55.44	7.50	
	27 Al	0.09 ug/l	51.89	3.96	
	39 K	-16.07 ug/l	31.35	19.20	
	44 Ca	2.26 ug/l	102.26	90.00	
	47 Ti	0.02 ug/l	221.40	0.78	
	51 V	0.57 ug/l	2.59	0.21	Fail
	52 Cr	0.01 ug/l	92.18	0.12	
	55 Mn	0.00 ug/l	249.24	0.10	
	56 Fe	0.25 ug/l	4.89	40.00	
	59 Co	-0.25 ug/l	1.50	0.09	
	60 Ni	0.00 ug/l	280.61	0.48	
	63 Cu	-0.13 ug/l	3.22	0.39	
	65 Cu	-0.13 ug/l	16.74	0.39	
	66 Zn	-0.01 ug/l	406.21	6.90	
	75 As	-0.09 ug/l	15.13	0.27	
	78 Se	0.01 ug/l	58.10	0.30	
	78 Se	0.05 ug/l	139.53	0.30	
	88 Sr	0.00 ug/l	1034.40	0.03	
	88 Sr	0.00 ug/l	24.09	0.03	
	95 Mo	0.03 ug/l	16.72	0.21	
	106 (Cd)	----- ug/l	-----	#VALUE!	
	107 Ag	0.00 ug/l	50.39	0.09	
	100 (Cd)	----- ug/l	-----	#VALUE!	
	111 Cd	0.01 ug/l	58.78	0.06	
	118 Sn	0.03 ug/l	55.51	0.30	
	121 Sb	0.13 ug/l	5.57	0.03	Fail
	137 Ba	0.01 ug/l	116.79	0.12	
	205 Tl	0.01 ug/l	38.28	0.03	
	206 (Pb)	----- ug/l	-----	#VALUE!	
	207 (Pb)	----- ug/l	-----	#VALUE!	
	208 Pb	-0.20 ug/l	0.78	0.33	

ISTD Elements	Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
	6 Li	3073279.00	0.84	2775704.50	110.7	70 - 120	
	45 Sc	545909.38	3.12	500780.41	109.0	70 - 120	
	45 Sc	100165.70	0.44	95494.08	104.9	70 - 120	
	45 Sc	1499557.30	0.22	1460980.80	102.6	70 - 120	
	72 Ge	101795.60	2.62	96219.04	105.8	70 - 120	
	72 Ge	46734.16	0.18	43611.78	107.2	70 - 120	
	72 Ge	210654.83	0.54	213204.63	98.8	70 - 120	
	115 In	1336860.30	0.89	1381264.00	96.8	70 - 120	
	159 Tb	1857728.00	1.11	1843940.90	100.7	70 - 120	
	165 Ho	1856236.60	1.27	1844184.90	100.7	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
 Analytes: Fail
 ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\013_CC.V.D\013_CC.V.D#
 Date Acquired: Nov 11 2011 01:03 pm
 Operator: NBS
 Sample Name: CCV 111111
 Misc Info:
 Vial Number: 1105
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	Expected QC	Range(%)	Flag
7 (Li)	----- ug/l	-----	50.00	90 - 110	
9 Be	45.86 ug/l	1.99	50.00	90 - 110	
11 B	43.69 ug/l	2.15	50.00	90 - 110	Fail
23 Na	1276.00 ug/l	1.53	1250.00	90 - 110	
24 Mg	2559.00 ug/l	1.05	2500.00	90 - 110	
27 Al	1001.00 ug/l	1.70	1000.00	90 - 110	
39 K	917.90 ug/l	1.26	1000.00	90 - 110	
44 Ca	2498.00 ug/l	1.41	2500.00	90 - 110	
47 Ti	49.40 ug/l	0.95	50.00	90 - 110	
51 V	50.61 ug/l	1.18	50.00	90 - 110	
52 Cr	50.27 ug/l	1.38	50.00	90 - 110	
55 Mn	54.78 ug/l	1.56	50.00	90 - 110	
56 Fe	1027.00 ug/l	1.77	1000.00	90 - 110	
59 Co	50.74 ug/l	0.93	50.00	90 - 110	
60 Ni	50.88 ug/l	1.81	50.00	90 - 110	
63 Cu	50.81 ug/l	0.58	50.00	90 - 110	
65 Cu	50.69 ug/l	0.50	50.00	90 - 110	
66 Zn	51.32 ug/l	0.03	50.00	90 - 110	
75 As	49.12 ug/l	0.62	50.00	90 - 110	
78 Se	50.32 ug/l	1.71	50.00	90 - 110	
78 Se	49.06 ug/l	1.10	50.00	90 - 110	
88 Sr	49.93 ug/l	0.31	50.00	90 - 110	
88 Sr	47.83 ug/l	0.44	50.00	90 - 110	
95 Mo	50.08 ug/l	0.70	50.00	90 - 110	
106 (Cd)	----- ug/l	-----	50.00	90 - 110	
107 Ag	24.63 ug/l	0.57	25.00	90 - 110	
108 (Cd)	----- ug/l	-----	50.00	90 - 110	
111 Cd	50.07 ug/l	1.49	50.00	90 - 110	
118 Sn	50.35 ug/l	0.28	50.00	90 - 110	
121 Sb	49.48 ug/l	0.77	50.00	90 - 110	
137 Ba	49.18 ug/l	0.66	50.00	90 - 110	
205 Tl	48.89 ug/l	0.40	50.00	90 - 110	
206 (Pb)	----- ug/l	-----	50.00	90 - 110	
207 (Pb)	----- ug/l	-----	50.00	90 - 110	
208 Pb	50.31 ug/l	0.14	50.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3009330.80	0.85	2775704.50	108.4	70 - 120	
45 Sc	502422.56	3.92	500780.41	100.3	70 - 120	
45 Sc	98428.88	1.42	95494.08	103.1	70 - 120	
45 Sc	1480640.80	1.02	1460980.80	101.3	70 - 120	
72 Ge	97237.93	2.52	96219.04	101.1	70 - 120	
72 Ge	46537.16	0.17	43611.78	106.7	70 - 120	
72 Ge	206334.70	0.20	213204.63	96.8	70 - 120	
115 In	1333758.10	0.36	1381264.00	96.6	70 - 120	
159 Tb	1832635.60	0.51	1843940.90	99.4	70 - 120	
165 Ho	1824652.90	0.58	1844184.90	98.9	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\014_CCB.D\014_CCB.D#
 Date Acquired: Nov 11 2011 01:09 pm
 Operator: NBS
 Sample Name: CCB 111111
 Misc Info:
 Vial Number: 1102
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Elements	Conc.	RSD(%)	High Limit	Flag
7 (Li)	----- ug/l	-----	#VALUE!	
9 Be	0.00 ug/l	75.05	0.12	
11 B	0.19 ug/l	2.24	15.00	
23 Na	3.09 ug/l	28.12	77.10	
24 Mg	0.17 ug/l	59.53	7.50	
27 Al	0.11 ug/l	49.92	3.96	
39 K	-13.77 ug/l	41.47	19.20	
44 Ca	1.49 ug/l	82.56	90.00	
47 Ti	0.00 ug/l	584.34	0.78	
51 V	0.76 ug/l	2.01	0.21	Fail
52 Cr	0.02 ug/l	22.00	0.12	
55 Mn	0.01 ug/l	26.62	0.18	
56 Fe	0.44 ug/l	10.30	40.80	
59 Co	-0.27 ug/l	0.49	0.09	
60 Ni	0.00 ug/l	169.21	0.48	
63 Cu	-0.16 ug/l	12.22	0.39	
65 Cu	-0.16 ug/l	4.20	0.39	
66 Zn	0.03 ug/l	67.54	6.90	
75 As	-0.03 ug/l	60.04	0.27	
78 Se	0.10 ug/l	23.77	0.30	
78 Se	0.02 ug/l	138.81	0.30	
88 Sr	0.00 ug/l	574.89	0.03	
88 Sr	0.00 ug/l	33.45	0.03	
95 Mo	0.10 ug/l	2.35	0.21	
106 (Cd)	----- ug/l	-----	#VALUE!	
107 Ag	0.00 ug/l	6.78	0.09	
108 (Cd)	----- ug/l	-----	#VALUE!	
111 Cd	0.01 ug/l	137.32	0.06	
118 Sn	0.06 ug/l	31.67	0.30	
121 Sb	0.69 ug/l	6.56	0.03	Fail
137 Ba	0.01 ug/l	127.23	0.12	
205 Tl	0.02 ug/l	7.09	0.03	
206 (Pb)	----- ug/l	-----	#VALUE!	
207 (Pb)	----- ug/l	-----	#VALUE!	
208 Pb	-0.21 ug/l	0.72	0.33	

ISTD Elements	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2980962.00	0.72	2775704.50	107.4	70 - 120	
45 Sc	505025.28	3.19	500780.41	100.8	70 - 120	
45 Sc	97675.82	0.75	95494.08	102.3	70 - 120	
45 Sc	1485366.30	0.36	1460980.80	101.7	70 - 120	
72 Ge	97202.46	2.05	96219.04	101.0	70 - 120	
72 Ge	45665.85	0.21	43611.78	104.7	70 - 120	
72 Ge	205716.23	0.30	213204.63	96.5	70 - 120	
115 In	1321174.40	0.50	1381264.00	95.6	70 - 120	
159 Tb	1807747.90	0.40	1843940.90	98.0	70 - 120	
165 Ho	1813776.00	0.73	1844184.90	98.4	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Pass

ICS-A QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\015ICSA.D\015ICSA.D#
 Date Acquired: Nov 11 2011 01:15 pm
 Acq. Method: 62A1111A.M
 Operator: NBS
 Sample Name: ICSA 111111
 Misc Info:
 Vial Number: 2102
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: G:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal. Update: Nov 11 2011 12:36 pm
 Sample Type: ICSA
 Dilution Factor: 1.00

Data Results:
 Analytes: Pass
 ISTD: Pass

QC Elements						
Element	IS Ref	Tune	Conc.	RSD(%)	High Limit ppb	Flag
7 (Li)	---	3	ug/l	-----		
9 Be	45	3	0.83 ug/l	2.55		
11 B	45	3	1.56 ug/l	2.76		
23 Na	45	2	93250.00 ug/l	0.74		
24 Mg	45	2	91170.00 ug/l	1.03		
27 Al	45	2	104800.00 ug/l	1.31		
39 K	45	2	95010.00 ug/l	0.86		
44 Ca	45	2	101900.00 ug/l	1.03		
47 Ti	45	2	1961.00 ug/l	0.73		
51 V	45	2	2.53 ug/l	1.39		
52 Cr	45	2	2.35 ug/l	1.68		
55 Mn	45	2	7.50 ug/l	0.84		
56 Fe	45	2	92610.00 ug/l	0.44		
59 Co	45	2	20.49 ug/l	0.58		
60 Ni	45	2	3.86 ug/l	0.68		
63 Cu	72	2	1.60 ug/l	2.77		
65 Cu	72	2	1.70 ug/l	4.01		
66 Zn	72	2	5.11 ug/l	1.25		
75 As	72	2	1.55 ug/l	3.09		
78 Se	72	1	1.07 ug/l	5.94		
78 Se	72	2	1.16 ug/l	9.00		
88 Sr	72	2	1.41 ug/l	4.62		
88 Sr	72	3	1.37 ug/l	1.32		
98 Mo	72	3	1834.00 ug/l	1.74		
106 (Cd)	---	3	ug/l	-----		
107 Ag	115	3	1.97 ug/l	1.05		
108 (Cd)	---	3	ug/l	-----		
111 Cd	115	3	2.42 ug/l	3.67		
118 Sn	115	3	1.18 ug/l	1.50		
121 Sb	115	3	1.93 ug/l	2.34		
137 Ba	115	3	3.88 ug/l	2.04		
205 Tl	159	3	1.62 ug/l	1.90		
206 (Pb)	---	3	ug/l	-----		
207 (Pb)	---	3	ug/l	-----		
208 Pb	159	3	3.50 ug/l	0.41		

ISTD Elements							
Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	2777926	0.73	2775705	100.1	70 - 120	
45 Sc	1	527513	3.31	500780	105.3	70 - 120	
45 Sc	2	94664	0.69	95494	99.1	70 - 120	
45 Sc	3	1465735	0.50	1460981	100.3	70 - 120	
72 Ge	1	98457	2.56	96219	102.3	70 - 120	
72 Ge	2	46798	1.22	43612	107.3	70 - 120	
72 Ge	3	216093	0.53	213205	101.4	70 - 120	
115 In	3	1235992	0.56	1381264	89.5	70 - 120	
159 Tb	3	1778881	0.42	1843941	96.5	70 - 120	
165 Ho	3	1783575	1.04	1844185	96.7	70 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
 Tune File# 2 c:\icpchem\1\7500\he.u
 Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

ICS-AB QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\016ICSB.D\016ICSB.D#
 Date Acquired: Nov 11 2011 01:21 pm
 Acq. Method: 62A1111A.M
 Operator: NBS
 Sample Name: ICSAB 111111
 Misc Info:
 Vial Number: 2103
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal. Update: Nov 11 2011 12:36 pm
 Sample Type: ICSAB
 Dilution Factor: 1.00

Data Results:
 Analytes: Pass
 ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	%Recovery	QC Range(%)	Flag
7 (Li)	---	3	---	---	---	---	---	---
9 Be	45	3	246.60	1.11	250	98.6	80 - 120	
11 B	45	3	1.63	0.34	---	---	---	
23 Na	45	2	96100.00	0.19	---	---	---	
24 Mg	45	2	93890.00	0.39	---	---	---	
27 Al	45	2	107500.00	1.06	---	---	---	
39 K	45	2	97710.00	0.66	---	---	---	
44 Ca	45	2	105800.00	1.05	---	---	---	
47 Ti	45	2	2014.00	0.31	2000	100.7	80 - 120	
51 V	45	2	267.30	0.98	250	106.9	80 - 120	
52 Cr	45	2	270.40	2.94	250	108.2	80 - 120	
55 Mn	45	2	264.30	0.56	250	105.7	80 - 120	
56 Fe	45	2	94360.00	0.20	---	---	---	
59 Co	45	2	282.40	0.78	250	113.0	80 - 120	
60 Ni	45	2	491.90	0.90	500	96.4	80 - 120	
63 Cu	72	2	218.20	1.17	250	87.3	80 - 120	
65 Cu	72	2	218.60	0.91	250	87.4	80 - 120	
66 Zn	72	2	513.60	0.37	500	102.7	80 - 120	
75 As	72	2	239.20	0.52	250	96.7	80 - 120	
78 Se	72	1	251.50	0.86	250	100.6	80 - 120	
78 Se	72	2	233.50	0.80	250	93.4	80 - 120	
88 Sr	72	2	1.62	0.60	---	---	---	
88 Sr	72	3	1.51	0.97	---	---	---	
95 Mo	72	3	2131.00	0.52	2000	106.6	80 - 120	
106 (Cd)	---	3	---	---	---	---	---	
107 Ag	115	3	535.90	1.10	500	107.2	80 - 120	
108 (Cd)	---	3	---	---	---	---	---	
111 Cd	115	3	495.00	0.98	500	99.0	80 - 120	
118 Sn	115	3	1.45	2.79	---	---	---	
121 Sb	115	3	274.60	0.82	250	109.8	80 - 120	
137 Ba	115	3	271.00	0.98	250	108.4	80 - 120	
205 Tl	159	3	252.50	0.03	250	101.0	80 - 120	
206 (Pb)	---	3	---	---	---	---	---	
207 (Pb)	---	3	---	---	---	---	---	
208 Pb	159	3	502.00	0.13	500	100.4	80 - 120	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3	2732517	0.30	2775705	98.4	70 - 120	
45 Sc	1	511020	0.99	500780	102.0	70 - 120	
45 Sc	2	93932	0.16	95494	98.4	70 - 120	
45 Sc	3	1418244	0.91	1460981	97.1	70 - 120	
72 Ge	1	96432	0.78	96219	100.2	70 - 120	
72 Ge	2	46185	0.98	43612	105.9	70 - 120	
72 Ge	3	209601	0.65	213205	98.3	70 - 120	
115 In	3	1203221	0.93	1381264	87.1	70 - 120	
159 Tb	3	1775149	0.42	1843941	96.3	70 - 120	
165 Ho	3	1779108	0.39	1844185	96.5	70 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
 Tune File# 2 c:\icpchem\1\7500\he.u
 Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

0 :Element Failures
 0 :ISTD Failures
 0 :Max. Number of Failures Allowed
 0 :Max. Number of ISTD Failures Allowed

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\018_CCV.D\018_CCV.D#
 Date Acquired: Nov 11 2011 01:33 pm
 Operator: NBS
 Sample Name: CCV 111111
 Misc Info:
 Vial Number: 1105
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	Expected QC Range(%)	Flag
7 (Li)	----- ug/l	-----	50.00 90 - 110	
9 Be	45.54 ug/l	0.43	50.00 90 - 110	
11 B	42.52 ug/l	0.69	50.00 90 - 110	Fail
23 Na	1232.00 ug/l	0.90	1250.00 90 - 110	
24 Mg	2553.00 ug/l	1.13	2500.00 90 - 110	
27 Al	1002.00 ug/l	1.24	1000.00 90 - 110	
39 K	910.10 ug/l	0.77	1000.00 90 - 110	
44 Ca	2506.00 ug/l	0.99	2500.00 90 - 110	
47 Ti	49.11 ug/l	2.38	50.00 90 - 110	
51 V	50.62 ug/l	1.42	50.00 90 - 110	
52 Cr	49.48 ug/l	1.20	50.00 90 - 110	
55 Mn	54.25 ug/l	1.47	50.00 90 - 110	
56 Fe	1014.00 ug/l	0.73	1000.00 90 - 110	
59 Co	50.51 ug/l	0.59	50.00 90 - 110	
60 Ni	50.70 ug/l	1.36	50.00 90 - 110	
63 Cu	49.70 ug/l	0.40	50.00 90 - 110	
65 Cu	49.73 ug/l	0.19	50.00 90 - 110	
66 Zn	49.96 ug/l	0.97	50.00 90 - 110	
75 As	48.64 ug/l	0.06	50.00 90 - 110	
78 Se	48.54 ug/l	0.17	50.00 90 - 110	
78 Se	48.82 ug/l	0.30	50.00 90 - 110	
88 Sr	49.77 ug/l	0.41	50.00 90 - 110	
88 Sr	48.29 ug/l	0.56	50.00 90 - 110	
95 Mo	51.00 ug/l	1.55	50.00 90 - 110	
106 (Cd)	----- ug/l	-----	50.00 90 - 110	
107 Ag	25.03 ug/l	0.97	25.00 90 - 110	
108 (Cd)	----- ug/l	-----	50.00 90 - 110	
111 Cd	49.94 ug/l	1.03	50.00 90 - 110	
118 Sn	51.03 ug/l	1.26	50.00 90 - 110	
121 Sb	50.47 ug/l	0.55	50.00 90 - 110	
137 Ba	50.01 ug/l	0.80	50.00 90 - 110	
205 Tl	48.64 ug/l	0.31	50.00 90 - 110	
206 (Pb)	----- ug/l	-----	50.00 90 - 110	
207 (Pb)	----- ug/l	-----	50.00 90 - 110	
208 Pb	50.34 ug/l	1.15	50.00 90 - 110	

ISTD Elements

Element	CPB Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3132762.00	0.73	2775704.50	112.9	70 - 120	
45 Sc	534639.31	0.21	500780.41	106.8	70 - 120	
45 Sc	99077.84	0.49	95494.08	103.8	70 - 120	
45 Sc	1513729.60	0.46	1460980.80	103.6	70 - 120	
72 Ge	102211.11	0.47	96219.04	106.2	70 - 120	
72 Ge	47244.57	0.27	43611.78	108.3	70 - 120	
72 Ge	214737.88	0.60	213204.63	100.7	70 - 120	
115 In	1389034.00	1.09	1381264.00	100.6	70 - 120	
159 Tb	1908915.90	0.41	1843940.90	103.5	70 - 120	
165 Ho	1921136.40	0.48	1844184.90	104.2	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\020_CCB.D\020_CCB.D#
 Date Acquired: Nov 11 2011 01:46 pm
 Operator: NBS
 Sample Name: CCB 111111
 Misc Info:
 Vial Number: 1102
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Elements	Element	Conc.	RSD(%)	High Limit	Flag
	7 (Li)	----- ug/l	-----	#VALUE!	
	9 Be	0.00 ug/l	342.89	0.12	
	11 B	-0.21 ug/l	27.87	15.00	
	23 Na	-22.55 ug/l	2.00	77.10	
	24 Mg	0.32 ug/l	24.61	7.50	
	27 Al	0.31 ug/l	30.94	3.96	
	39 K	-13.04 ug/l	28.54	19.20	
	44 Ca	-2.47 ug/l	54.66	90.00	
	47 Ti	0.02 ug/l	115.52	0.78	
	51 V	1.17 ug/l	4.59	0.21	Fail
	52 Cr	0.01 ug/l	119.76	0.12	
	55 Mn	0.00 ug/l	605.19	0.18	
	56 Fe	0.83 ug/l	6.77	40.80	
	59 Co	-0.30 ug/l	0.59	0.09	
	60 Ni	0.00 ug/l	211.25	0.48	
	63 Cu	-0.31 ug/l	1.69	0.39	
	65 Cu	-0.31 ug/l	4.87	0.39	
	66 Zn	0.00 ug/l	866.90	6.90	
	75 As	-0.07 ug/l	27.14	0.27	
	78 Se	0.03 ug/l	41.10	0.30	
	78 Se	0.07 ug/l	100.62	0.30	
	88 Sr	0.00 ug/l	114.02	0.03	
	88 Sr	0.00 ug/l	18.44	0.03	
	95 Mo	0.09 ug/l	4.01	0.21	
	106 (Cd)	----- ug/l	-----	#VALUE!	
	107 Ag	0.01 ug/l	12.14	0.09	
	108 (Cd)	----- ug/l	-----	#VALUE!	
	111 Cd	0.00 ug/l	1077.10	0.06	
	118 Sn	0.03 ug/l	30.18	0.30	
	121 Sb	0.29 ug/l	4.29	0.03	Fail
	137 Ba	0.01 ug/l	115.49	0.12	
	205 Tl	0.01 ug/l	19.13	0.03	
	206 (Pb)	----- ug/l	-----	#VALUE!	
	207 (Pb)	----- ug/l	-----	#VALUE!	
	208 Pb	-0.21 ug/l	1.63	0.33	

ISTD Elements	Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
	6 Li	3042523.00	0.11	2775704.50	109.6	70 - 120	
	45 Sc	529492.56	0.66	500780.41	105.7	70 - 120	
	45 Sc	97690.27	0.93	95494.08	102.3	70 - 120	
	45 Sc	1482243.40	0.75	1460980.80	101.5	70 - 120	
	72 Ge	101254.01	0.60	96219.04	105.2	70 - 120	
	72 Ge	46065.66	0.31	43611.78	105.6	70 - 120	
	72 Ge	210454.86	0.84	213204.63	98.7	70 - 120	
	115 In	1353362.30	0.71	1301264.00	98.0	70 - 120	
	159 Tb	1859786.10	0.52	1843940.90	100.9	70 - 120	
	165 Ho	1863063.90	0.81	1844184.90	101.0	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
 Analytes: Fail
 ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\032_CCV.D\032_CCV.D#
 Date Acquired: Nov 11 2011 03:05 pm
 Operator: NBS
 Sample Name: CCV 111111
 Misc Info:
 Vial Number: 1105
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	Expected QC	Range(%)	Flag
7 (Li)	----- ug/l	-----	50.00	90 - 110	
9 Be	45.98 ug/l	0.90	50.00	90 - 110	
11 B	43.38 ug/l	1.83	50.00	90 - 110	Fail
23 Na	1250.00 ug/l	2.32	1250.00	90 - 110	
24 Mg	2541.00 ug/l	1.13	2500.00	90 - 110	
27 Al	992.10 ug/l	1.33	1000.00	90 - 110	
39 K	905.50 ug/l	1.76	1000.00	90 - 110	
44 Ca	2473.00 ug/l	1.61	2500.00	90 - 110	
47 Ti	49.01 ug/l	0.71	50.00	90 - 110	
51 V	50.64 ug/l	0.61	50.00	90 - 110	
52 Cr	49.61 ug/l	0.94	50.00	90 - 110	
55 Mn	54.01 ug/l	0.87	50.00	90 - 110	
56 Fe	1013.00 ug/l	1.52	1000.00	90 - 110	
59 Co	50.36 ug/l	0.94	50.00	90 - 110	
60 Ni	51.02 ug/l	1.41	50.00	90 - 110	
63 Cu	49.96 ug/l	0.98	50.00	90 - 110	
65 Cu	49.87 ug/l	0.48	50.00	90 - 110	
66 Zn	50.14 ug/l	1.34	50.00	90 - 110	
75 As	48.56 ug/l	0.79	50.00	90 - 110	
78 Se	47.94 ug/l	1.13	50.00	90 - 110	
78 Se	48.27 ug/l	2.37	50.00	90 - 110	
88 Sr	50.07 ug/l	0.24	50.00	90 - 110	
88 Sr	46.85 ug/l	0.80	50.00	90 - 110	
95 Mo	48.88 ug/l	0.75	50.00	90 - 110	
106 (Cd)	----- ug/l	-----	50.00	90 - 110	
107 Ag	24.26 ug/l	1.57	25.00	90 - 110	
108 (Cd)	----- ug/l	-----	50.00	90 - 110	
111 Cd	49.33 ug/l	0.71	50.00	90 - 110	
118 Sn	50.24 ug/l	1.40	50.00	90 - 110	
121 Sb	49.54 ug/l	1.18	50.00	90 - 110	
137 Ba	49.63 ug/l	2.49	50.00	90 - 110	
205 Tl	48.65 ug/l	0.58	50.00	90 - 110	
206 (Pb)	----- ug/l	-----	50.00	90 - 110	
207 (Pb)	----- ug/l	-----	50.00	90 - 110	
208 Pb	49.96 ug/l	0.90	50.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3188763.30	1.52	2775704.50	114.9	70 - 120	
45 Sc	530164.38	0.11	500780.41	105.9	70 - 120	
45 Sc	96337.35	1.21	95494.08	100.9	70 - 120	
45 Sc	1476239.00	1.18	1460980.80	101.0	70 - 120	
72 Ge	102958.30	0.45	96219.04	107.0	70 - 120	
72 Ge	45995.51	1.09	43611.78	105.5	70 - 120	
72 Ge	211979.86	0.56	213204.63	99.4	70 - 120	
115 In	1355180.90	1.54	1381264.00	98.1	70 - 120	
159 Tb	1863114.30	0.80	1843940.90	101.0	70 - 120	
165 Ho	1880561.90	0.45	1844184.90	102.0	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

1 : Element Failures 0 : Max. Number of Failures Allowed
 0 : ISTD Failures 0 : Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\034_CCB.D\034_CCB.D#
 Date Acquired: Nov 11 2011 03:17 pm
 Operator: NBS
 Sample Name: CCB 111111
 Misc Info:
 Vial Number: 1102
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	----- ug/l	-----	#VALUE!	
9 Be	0.00 ug/l	69.30	0.12	
11 B	-0.21 ug/l	1.18	15.00	
23 Na	-12.29 ug/l	7.14	77.10	
24 Mg	0.25 ug/l	17.30	7.50	
27 Al	0.17 ug/l	52.39	3.96	
39 K	-13.38 ug/l	34.73	19.20	
44 Ca	-0.64 ug/l	345.23	90.00	
47 Ti	0.01 ug/l	249.07	0.78	
51 V	1.42 ug/l	3.15	0.21	Fail
52 Cr	0.03 ug/l	9.62	0.12	
55 Mn	0.01 ug/l	149.75	0.18	
56 Fe	0.83 ug/l	6.84	40.80	
59 Co	-0.29 ug/l	0.85	0.09	
60 Ni	-0.01 ug/l	222.72	0.48	
63 Cu	-0.38 ug/l	4.80	0.39	
65 Cu	-0.41 ug/l	3.73	0.39	
66 Zn	0.00 ug/l	2628.40	6.90	
75 As	0.07 ug/l	32.28	0.27	
78 Se	0.02 ug/l	97.30	0.30	
78 Se	0.10 ug/l	82.67	0.30	
88 Sr	0.00 ug/l	540.84	0.03	
88 Sr	0.00 ug/l	24.02	0.03	
95 Mo	0.03 ug/l	20.10	0.21	
106 (Cd)	----- ug/l	-----	#VALUE!	
107 Ag	0.00 ug/l	72.34	0.09	
108 (Cd)	----- ug/l	-----	#VALUE!	
111 Cd	0.00 ug/l	426.65	0.06	
118 Sn	0.05 ug/l	13.48	0.30	
121 Sb	0.29 ug/l	11.14	0.03	Fail
137 Ba	0.02 ug/l	76.66	0.12	
205 Tl	0.01 ug/l	1.73	0.03	
206 (Pb)	----- ug/l	-----	#VALUE!	
207 (Pb)	----- ug/l	-----	#VALUE!	
208 Pb	-0.25 ug/l	1.69	0.33	

ISTD Elements

Element	CP9 Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3085838.80	0.28	2775704.50	111.2	70 - 120	
45 Sc	543008.13	0.74	500780.41	108.4	70 - 120	
45 Sc	96730.10	0.69	95494.08	101.3	70 - 120	
45 Sc	1456388.00	1.14	1460980.80	99.7	70 - 120	
72 Ge	104225.84	0.21	96219.04	108.3	70 - 120	
72 Ge	45874.70	1.25	43611.78	105.2	70 - 120	
72 Ge	211968.23	0.39	213204.63	99.4	70 - 120	
115 In	1335750.50	0.67	1381264.00	96.7	70 - 120	
159 Tb	1825624.90	0.43	1843940.90	99.0	70 - 120	
165 Ho	1821355.50	0.60	1844184.90	98.8	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\046_CCV.D\046_CCV.D#
 Date Acquired: Nov 11 2011 04:30 pm
 Operator: NBS
 Sample Name: CCV 111111
 Misc Info:
 Vial Number: 1105
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Elements					
Element	Conc.	RSD(%)	Expected QC Range(%)		Flag
7 (Li)	ug/l		50.00	90 - 110	
9 Be	45.70 ug/l	1.26	50.00	90 - 110	
11 B	42.89 ug/l	1.19	50.00	90 - 110	Fail
23 Na	1254.00 ug/l	0.41	1250.00	90 - 110	
24 Mg	2547.00 ug/l	0.59	2500.00	90 - 110	
27 Al	995.00 ug/l	1.60	1000.00	90 - 110	
39 K	893.20 ug/l	1.01	1000.00	90 - 110	Fail
44 Ca	2454.00 ug/l	1.15	2500.00	90 - 110	
47 Ti	49.64 ug/l	0.77	50.00	90 - 110	
51 V	51.07 ug/l	0.56	50.00	90 - 110	
52 Cr	49.58 ug/l	1.32	50.00	90 - 110	
55 Mn	53.75 ug/l	1.23	50.00	90 - 110	
56 Fe	1008.00 ug/l	1.04	1000.00	90 - 110	
59 Co	50.27 ug/l	0.38	50.00	90 - 110	
60 Ni	50.83 ug/l	0.09	50.00	90 - 110	
63 Cu	49.08 ug/l	0.21	50.00	90 - 110	
65 Cu	49.49 ug/l	0.52	50.00	90 - 110	
66 Zn	49.79 ug/l	0.97	50.00	90 - 110	
75 As	48.81 ug/l	0.50	50.00	90 - 110	
78 Se	46.71 ug/l	1.36	50.00	90 - 110	
78 Se	47.88 ug/l	0.76	50.00	90 - 110	
88 Sr	50.09 ug/l	1.50	50.00	90 - 110	
88 Sr	46.19 ug/l	0.77	50.00	90 - 110	
95 Mo	48.00 ug/l	1.20	50.00	90 - 110	
106 (Cd)	ug/l		50.00	90 - 110	
107 Ag	24.50 ug/l	0.88	25.00	90 - 110	
108 (Cd)	ug/l		50.00	90 - 110	
111 Cd	49.59 ug/l	0.88	50.00	90 - 110	
118 Sn	50.70 ug/l	0.24	50.00	90 - 110	
121 Sb	50.92 ug/l	1.07	50.00	90 - 110	
137 Ba	50.15 ug/l	0.91	50.00	90 - 110	
205 Tl	48.73 ug/l	1.15	50.00	90 - 110	
206 (Pb)	ug/l		50.00	90 - 110	
207 (Pb)	ug/l		50.00	90 - 110	
208 Pb	50.41 ug/l	1.38	50.00	90 - 110	

ISTD Elements					
Element	CPS Mean	RSD(%)	Ref Value	Rec(%) QC Range(%)	Flag
6 Li	3087745.80	0.94	2775704.50	111.2 70 - 120	
45 Sc	518583.69	0.47	500780.41	103.6 70 - 120	
45 Sc	93007.50	0.55	95494.08	97.4 70 - 120	
45 Sc	1424009.10	1.38	1460980.80	97.5 70 - 120	
72 Ge	100723.93	0.27	96219.04	104.7 70 - 120	
72 Ge	44570.69	0.32	43611.78	102.2 70 - 120	
72 Ge	210088.66	0.52	213204.63	98.5 70 - 120	
115 In	1313527.60	0.88	1381264.00	95.1 70 - 120	
159 Tb	1801651.50	1.57	1843940.90	97.7 70 - 120	
165 Ho	1809552.10	1.53	1844184.90	98.1 70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
 Analytes: Fail
 ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\048_CCB.D\048_CCB.D#
 Date Acquired: Nov 11 2011 04:42 pm
 Operator: NBS
 Sample Name: CCB 111111
 Misc Info:
 Vial Number: 1102
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	ug/l		#VALUE!	
9 Be	0.00 ug/l	42.29	0.12	
11 B	-0.13 ug/l	71.11	15.00	
23 Na	-8.31 ug/l	8.06	77.10	
24 Mg	0.36 ug/l	29.70	7.50	
27 Al	0.19 ug/l	47.04	3.96	
39 K	-21.23 ug/l	17.60	19.20	
44 Ca	-3.80 ug/l	61.16	90.00	
47 Ti	0.11 ug/l	173.80	0.78	
51 V	2.15 ug/l	1.51	0.21	Fail
52 Cr	0.08 ug/l	5.21	0.12	
55 Mn	0.54 ug/l	4.21	0.18	Fail
56 Fe	1.18 ug/l	2.51	40.80	
59 Co	-0.29 ug/l	0.62	0.09	
60 Ni	-0.01 ug/l	26.89	0.48	
63 Cu	-0.51 ug/l	3.25	0.39	
65 Cu	-0.52 ug/l	1.59	0.39	
66 Zn	0.03 ug/l	92.54	6.90	
75 As	0.35 ug/l	13.98	0.27	Fail
78 Se	0.04 ug/l	38.02	0.30	
78 Se	0.10 ug/l	95.97	0.30	
88 Sr	0.00 ug/l	152.47	0.03	
88 Sr	0.01 ug/l	57.39	0.03	
95 Mo	0.04 ug/l	33.06	0.21	
106 (Cd)	ug/l		#VALUE!	
107 Ag	0.00 ug/l	67.11	0.09	
108 (Cd)	ug/l		#VALUE!	
111 Cd	0.00 ug/l	1389.00	0.06	
118 Sn	0.07 ug/l	25.68	0.30	
121 Sb	0.41 ug/l	2.24	0.03	Fail
137 Ba	0.01 ug/l	46.25	0.12	
205 Tl	0.01 ug/l	17.61	0.03	
206 (Pb)	ug/l		#VALUE!	
207 (Pb)	ug/l		#VALUE!	
208 Pb	-0.24 ug/l	0.75	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3066933.50	0.82	2775704.50	110.5	70 - 120	
45 Sc	480667.06	6.48	500780.41	96.0	70 - 120	
45 Sc	92147.45	0.95	95494.08	96.5	70 - 120	
45 Sc	1424222.60	0.94	1460980.80	97.5	70 - 120	
72 Ge	96248.01	5.46	96219.04	100.0	70 - 120	
72 Ge	44554.26	0.07	43611.78	102.2	70 - 120	
72 Ge	211003.38	0.55	213204.63	99.0	70 - 120	
115 In	1322454.80	0.90	1381264.00	95.7	70 - 120	
159 Tb	1796985.40	1.28	1843940.90	97.5	70 - 120	
165 Ho	1818211.10	0.91	1844184.90	98.6	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

4 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\060_CCV.D\060_CCV.D#
 Date Acquired: Nov 11 2011 06:04 pm
 Operator: NBS
 Sample Name: CCV 111111
 Misc Info:
 Vial Number: 1105
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	Expected QC Range(%)	Flag
7 (Li)	----- ug/l	-----	50.00 90 - 110	
9 Be	43.59 ug/l	0.52	50.00 90 - 110	Fail
11 B	39.89 ug/l	0.37	50.00 90 - 110	Fail
23 Na	1206.00 ug/l	0.25	1250.00 90 - 110	
24 Mg	2492.00 ug/l	1.14	2500.00 90 - 110	
27 Al	988.60 ug/l	0.65	1000.00 90 - 110	
39 K	883.40 ug/l	0.62	1000.00 90 - 110	Fail
44 Ca	2445.00 ug/l	1.17	2500.00 90 - 110	
47 Ti	49.55 ug/l	0.70	50.00 90 - 110	
51 V	52.18 ug/l	0.86	50.00 90 - 110	
52 Cr	49.10 ug/l	0.91	50.00 90 - 110	
55 Mn	53.67 ug/l	0.37	50.00 90 - 110	
56 Fe	999.40 ug/l	0.75	1000.00 90 - 110	
59 Co	49.93 ug/l	0.37	50.00 90 - 110	
60 Ni	50.18 ug/l	0.47	50.00 90 - 110	
63 Cu	48.01 ug/l	1.08	50.00 90 - 110	
65 Cu	47.95 ug/l	1.23	50.00 90 - 110	
66 Zn	48.48 ug/l	0.85	50.00 90 - 110	
75 As	48.40 ug/l	0.84	50.00 90 - 110	
78 Se	44.75 ug/l	1.93	50.00 90 - 110	Fail
78 Se	46.76 ug/l	2.40	50.00 90 - 110	
88 Sr	49.65 ug/l	0.75	50.00 90 - 110	
88 Sr	43.83 ug/l	0.41	50.00 90 - 110	Fail
95 Mo	45.84 ug/l	0.72	50.00 90 - 110	
106 (Cd)	----- ug/l	-----	50.00 90 - 110	
107 Ag	24.47 ug/l	1.71	25.00 90 - 110	
108 (Cd)	----- ug/l	-----	50.00 90 - 110	
111 Cd	48.94 ug/l	2.42	50.00 90 - 110	
118 Sn	49.84 ug/l	1.46	50.00 90 - 110	
121 Sb	50.04 ug/l	0.62	50.00 90 - 110	
137 Ba	50.55 ug/l	2.58	50.00 90 - 110	
205 Tl	46.49 ug/l	1.08	50.00 90 - 110	
206 (Pb)	----- ug/l	-----	50.00 90 - 110	
207 (Pb)	----- ug/l	-----	50.00 90 - 110	
208 Pb	48.04 ug/l	0.60	50.00 90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3120885.30	0.68	2775704.50	112.4	70 - 120	
45 Sc	528291.50	1.60	500780.41	105.5	70 - 120	
45 Sc	94943.62	0.72	95494.08	99.4	70 - 120	
45 Sc	1497531.60	0.60	1460980.80	102.5	70 - 120	
72 Ge	107482.91	1.52	96219.04	111.7	70 - 120	
72 Ge	46381.07	0.48	43611.78	106.3	70 - 120	
72 Ge	233866.19	0.20	213204.63	109.7	70 - 120	
115 In	1403864.60	1.34	1381264.00	101.6	70 - 120	
159 Tb	1927869.00	0.42	1843940.90	104.6	70 - 120	
165 Ho	1902582.90	0.32	1844184.90	103.2	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

5 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\062_CCB.D\062_CCB.D#
 Date Acquired: Nov 11 2011 06:16 pm
 Operator: NBS
 Sample Name: CCB 111111
 Misc Info:
 Vial Number: 1102
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	----- ug/l	-----	#VALUE!	
9 Be	0.00 ug/l	45.82	0.12	
11 B	-0.52 ug/l	3.32	15.00	
23 Na	-14.13 ug/l	1.97	77.10	
24 Mg	0.40 ug/l	18.80	7.50	
27 Al	0.37 ug/l	36.41	3.96	
39 K	-25.01 ug/l	22.10	19.20	
44 Ca	-5.06 ug/l	39.41	90.00	
47 Ti	-0.01 ug/l	153.32	0.78	
51 V	3.23 ug/l	1.14	0.21	Fail
52 Cr	0.11 ug/l	18.29	0.12	
55 Mn	0.56 ug/l	2.13	0.18	Fail
56 Fe	0.91 ug/l	1.90	40.80	
59 Co	-0.29 ug/l	0.95	0.09	
60 Ni	-0.01 ug/l	26.61	0.48	
63 Cu	-0.57 ug/l	1.33	0.39	
65 Cu	-0.57 ug/l	1.17	0.39	
66 Zn	0.10 ug/l	36.98	6.90	
75 As	0.63 ug/l	2.54	0.27	Fail
78 Se	0.03 ug/l	36.72	0.30	
78 Se	0.20 ug/l	17.06	0.30	
88 Sr	0.01 ug/l	140.22	0.03	
88 Sr	0.00 ug/l	12.28	0.03	
95 Mo	0.01 ug/l	62.46	0.21	
106 (Cd)	----- ug/l	-----	#VALUE!	
107 Ag	0.00 ug/l	55.01	0.09	
108 (Cd)	----- ug/l	-----	#VALUE!	
111 Cd	0.01 ug/l	225.87	0.06	
118 Sn	0.05 ug/l	34.43	0.30	
121 Sb	0.19 ug/l	1.47	0.03	Fail
137 Ba	0.00 ug/l	114.50	0.12	
205 Tl	0.01 ug/l	8.77	0.03	
206 (Pb)	----- ug/l	-----	#VALUE!	
207 (Pb)	----- ug/l	-----	#VALUE!	
208 Pb	-0.25 ug/l	1.47	0.33	

ISTD Elements

Element	CPS	Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3025901.00	0.96	2775704.50	109.0	70 - 120		
45 Sc	540897.69	0.43	500780.41	108.0	70 - 120		
45 Sc	95060.94	0.12	95494.08	99.5	70 - 120		
45 Sc	1475771.40	0.55	1460980.80	101.0	70 - 120		
72 Ge	108235.30	0.84	96219.04	112.5	70 - 120		
72 Ge	46007.31	1.05	43611.78	105.5	70 - 120		
72 Ge	232509.75	0.78	213204.63	109.1	70 - 120		
115 In	1409864.80	1.11	1381264.00	102.1	70 - 120		
159 Tb	1904300.90	0.32	1843940.90	103.3	70 - 120		
165 Ho	1879356.80	0.14	1844184.90	101.9	70 - 120		

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

4 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Pass

**METALS
Raw Data**

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
6020	LEAD (PB) (DISSOL	0.19 J	0.5	0.22	0.11	ug/L	11/10/11	11/11/11	#602D-111110A-AY49334

J = Estimated value.

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\024SMPL.D\024SMPL.D#
 Date Acquired: Nov 11 2011 02:16 pm
 Operator: NBS
 Sample Name: 111110A-3015-BLK
 Misc Info: 111110A-3015
 Vial Number: 3101
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: Sample
 Prep Dil Factor: 1.11
 Total Dil Factor: 1.11

QC Elements	Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
	7 (Li)	----- ug/l	#VALUE!	-----	0	
	9 Be	-0.01 ug/l	-0.01	2.73	1000	
	11 B	0.02 ug/l	0.02	15.56	1000	
	23 Na	35.01 ug/l	38.90	12.71	25000	
	24 Mg	5.25 ug/l	5.83	2.15	50000	
	27 Al	6.63 ug/l	7.37	3.21	20000	
	39 K	-19.19 ug/l	-21.32	24.75	20000	
	44 Ca	187.10 ug/l	207.87	2.16	50000	
	47 Ti	0.09 ug/l	0.10	43.80	1000	
	51 V	-0.78 ug/l	-0.86	1.87	1000	
	52 Cr	-0.04 ug/l	-0.04	28.95	1000	
	55 Mn	0.23 ug/l	0.26	6.88	1000	
	56 Fe	2.70 ug/l	3.00	5.14	20000	
	59 Co	-0.27 ug/l	-0.30	0.86	1000	
	60 Ni	0.12 ug/l	0.14	23.87	1000	
	63 Cu	-0.44 ug/l	-0.49	2.50	1000	
	65 Cu	-0.44 ug/l	-0.49	2.58	1000	
	66 Zn	7.48 ug/l	8.31	3.75	1000	
	75 As	-0.53 ug/l	-0.59	2.55	1000	
	78 Se	-0.01 ug/l	-0.01	26.71	1000	
	78 Se	-0.01 ug/l	-0.02	520.99	1000	
	88 Sr	0.14 ug/l	0.16	12.74	1000	
	88 Sr	0.14 ug/l	0.16	3.88	1000	
	95 Mo	0.02 ug/l	0.02	6.80	1000	
	106 (Cd)	----- ug/l	#VALUE!	-----	#####	
	107 Ag	0.00 ug/l	0.00	212.49	500	
	108 (Cd)	----- ug/l	#VALUE!	-----	#####	
	111 Cd	0.02 ug/l	0.02	26.66	1000	
	118 Sn	0.12 ug/l	0.13	6.01	1000	
	121 Sb	0.07 ug/l	0.08	7.73	1000	
	137 Ba	0.04 ug/l	0.04	9.41	1000	
	205 Tl	0.01 ug/l	0.01	22.33	1000	
	206 (Pb)	----- ug/l	#VALUE!	-----	#####	
	207 (Pb)	----- ug/l	#VALUE!	-----	#####	
	208 Pb	0.17 ug/l	0.19	1.81	1000	

ISTD Elements	Element	CPS	Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
	6 Li	320542.30	0.83	2775704.50	115.5	70 - 120		
	45 Sc	579022.81	0.89	500780.41	115.6	70 - 120		
	45 Sc	106222.45	0.45	95494.08	111.2	70 - 120		
	45 Sc	1635333.40	0.66	1460980.80	111.9	70 - 120		
	72 Ge	108091.34	0.67	96219.04	112.3	70 - 120		
	72 Ge	49642.59	1.23	43611.78	113.8	70 - 120		
	72 Ge	228973.69	0.34	213204.63	107.4	70 - 120		
	115 In	1505106.90	0.63	1381264.00	109.0	70 - 120		
	159 Tb	2069441.80	1.02	1843940.90	112.2	70 - 120		
	165 Ho	2056674.30	0.60	1844184.90	111.5	70 - 120		

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
 Analytes: Pass
 ISTD: Pass

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
6020	LEAD (PB) (DISSOLVED)	50.0	50.0	100	80-120	11/10/2011	1/11/2011	#602D-111110A-AY49334

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Comments:

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\025SMPL.D\025SMPL.D#
 Date Acquired: Nov 11 2011 02:22 pm
 Operator: NBS
 Sample Name: 111110A-3015-LCS
 Misc Info: 111110A-3015
 Vial Number: 3102
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: Sample
 Prep Dil Factor: 1.11
 Total Dil Factor: 1.11

QC Elements	Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
	7 (Li)	----- ug/l	#VALUE!	-----	0	
	9 Be	7.09 ug/l	7.88	0.95	1000	
	11 B	34.46 ug/l	38.29	0.83	1000	
	23 Na	4313.00 ug/l	4791.74	0.33	25000	
	24 Mg	4287.00 ug/l	4762.86	0.50	50000	
	27 Al	378.80 ug/l	420.85	1.07	20000	
	39 K	819.80 ug/l	910.80	1.14	20000	
	44 Ca	4772.00 ug/l	5301.69	0.81	50000	
	47 Ti	43.16 ug/l	47.95	0.73	1000	
	51 V	44.89 ug/l	49.87	0.68	1000	
	52 Cr	46.85 ug/l	52.05	0.52	1000	
	55 Mn	48.25 ug/l	53.61	0.34	1000	
	56 Fe	188.60 ug/l	209.53	0.62	20000	
	59 Co	45.14 ug/l	50.15	0.81	1000	
	60 Ni	45.24 ug/l	50.26	0.75	1000	
	63 Cu	42.57 ug/l	47.30	0.51	1000	
	65 Cu	42.70 ug/l	47.44	0.10	1000	
	66 Zn	94.53 ug/l	105.02	0.68	1000	
	75 As	39.81 ug/l	44.23	0.66	1000	
	78 Se	36.57 ug/l	40.63	2.90	1000	
	78 Se	37.79 ug/l	41.98	1.41	1000	
	88 Sr	47.19 ug/l	52.43	0.39	1000	
	88 Sr	45.26 ug/l	50.28	0.18	1000	
	95 Mo	45.43 ug/l	50.47	0.63	1000	
	106 (Cd)	----- ug/l	#VALUE!	-----	#####	
	107 Ag	16.57 ug/l	18.41	1.13	500	
	108 (Cd)	----- ug/l	#VALUE!	-----	#####	
	111 Cd	8.34 ug/l	9.26	2.50	1000	
	118 Sn	48.01 ug/l	53.34	0.41	1000	
	121 Sb	42.84 ug/l	47.60	0.50	1000	
	137 Ba	44.60 ug/l	49.55	0.91	1000	
	205 Tl	43.45 ug/l	48.27	0.08	1000	
	206 (Pb)	----- ug/l	#VALUE!	-----	#####	
	207 (Pb)	----- ug/l	#VALUE!	-----	#####	
	208 Pb	45.08 ug/l	50.08	0.48	1000	

ISTD Elements	Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
	6 Li	3106113.00	0.94	2775704.50	111.9	70 - 120	
	45 Sc	583837.94	0.76	500780.41	116.6	70 - 120	
	45 Sc	104815.63	0.97	95494.08	109.8	70 - 120	
	45 Sc	1623628.90	0.72	1460980.80	111.1	70 - 120	
	72 Ge	109519.99	0.75	96219.04	113.8	70 - 120	
	72 Ge	48705.67	0.97	43611.78	111.7	70 - 120	
	72 Ge	226177.02	0.48	213204.63	106.1	70 - 120	
	115 In	1499201.30	0.50	1381264.00	108.5	70 - 120	
	159 Tb	2052386.10	0.41	1843940.90	111.3	70 - 120	
	165 Ho	2061841.80	0.62	1844184.90	111.8	70 - 120	

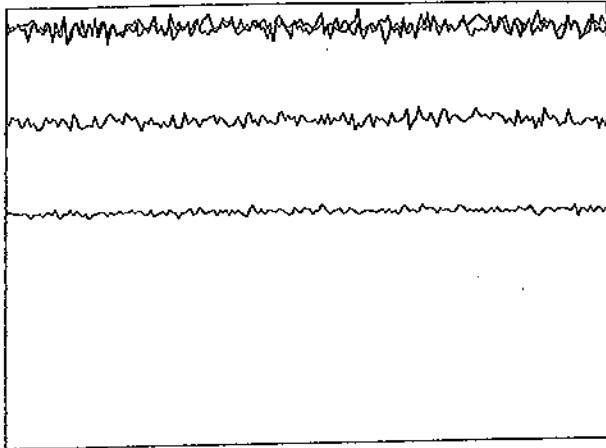
ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
 Analytes: Pass
 ISTD: Pass

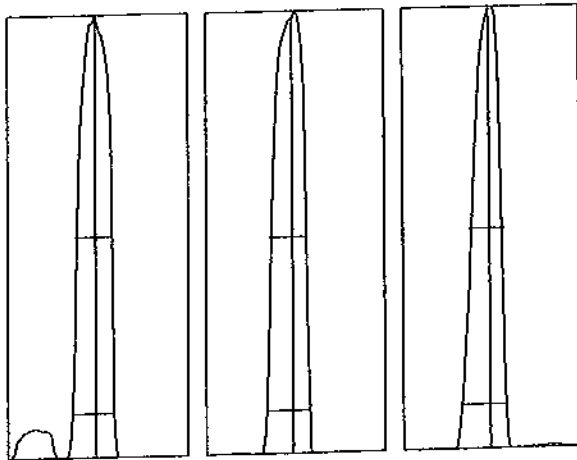
Tune Report

Tune File : nogas.u
 Comment : 111111



Integration Time: 0.1000 sec
 Sampling Period: 0.6200 sec
 n: 200
 Oxide: 156/140 1.410%
 Doubly Charged: 70/140 1.051%

m/z	Range	Count	Mean	RSD%	Background
7	50,000	26283.0	26440.3	1.09	0.40
89	20,000	19274.0	18861.9	1.39	2.20
205	20,000	14914.0	14722.1	1.50	5.80
156/140	2	1.520%	1.398%	6.48	
70/140	2	1.065%	1.038%	8.17	
140	20,000	18882.0	19064.3	1.33	4.10



m/z:	7	89	205
Height:	26,611	18,699	14,936
Axis:	7.00	89.00	205.00
W-50%:	0.65	0.65	0.60
W-10%:	0.700	0.7500	0.800

Integration Time: 0.1000 sec
 Acquisition Time: 22.7600 sec

Y axis : Linear

Tune Report

Tune File : nogas.u
Comment : 111111

Tuning Parameters

===Plasma Condition===	===Ion Lenses===	===Q-Pole Parameters===
RF Power : 1600 W	Extract 1 : 0 V	AMU Gain : 128
RF Matching : 1.66 V	Extract 2 : -130 V	AMU Offset : 127
Smpl Depth : 9.6 mm	Omega Bias-ce : -22 V	Axis Gain : 1
Torch-H : -0.1 mm	Omega Lens-ce : -1.2 V	Axis Offset : -0.02
Torch-V : 0.1 mm	Cell Entrance : -30 V	QP Bias : -3 V
Carrier Gas : 1.02 L/min	QP Focus : 5 V	
Makeup Gas : 0.1 L/min	Cell Exit : -30 V	===Detector Parameters===
Optional Gas : --- %		Discriminator : 8 mV
Nebulizer Pump : 0.1 rps	===Octopole Parameters===	Analog HV : 1660 V
Sample Pump : --- rps	OctP RF : 180 V	Pulse HV : 1460 V
S/C Temp : 2 degC	OctP Bias : -6 V	

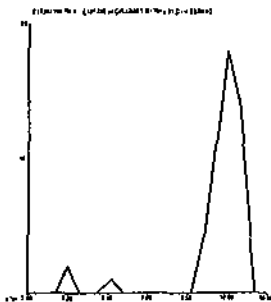
===Reaction Cell===

Reaction Mode : OFF			
H2 Gas : 0 mL/min	He Gas : 0 mL/min	Optional Gas : --- %	

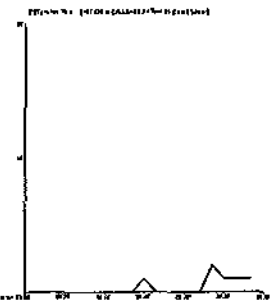
200.8 QC Tune Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\001TUNE.D
 Date Acquired: Nov 11 2011 11:48 am
 Acq. Method: TN200_8.M
 Operator: NBS
 Sample Name: 100ppb Tune sol
 Misc Info:
 Vial Number: 1303
 Current Method: C:\ICPCHEM\1\METHODS\TN200_8.M

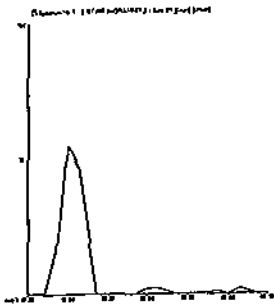
Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	%RSD	Required	Flag
9 Be	65891175	64840372	65630536	65890148	66486284	66608536	1.01	5.00	
24 Mg	120432836	#####	#####	#####	#####	#####	1.16	5.00	
59 Co	111175066	#####	#####	#####	#####	#####	0.73	5.00	
115 In	122240964	#####	#####	#####	#####	#####	0.81	5.00	
208 Pb	63959189	64419004	64182972	63372424	64206080	63615464	1.13	5.00	



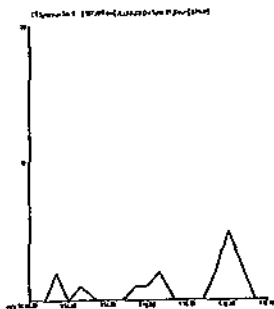
9 Be
 Mass Calib.
 Actual: 9.00
 Required: 8.90 - 9.10
 Flag:
 Peak Width
 Actual: 0.60
 Required: 0.90
 Flag:



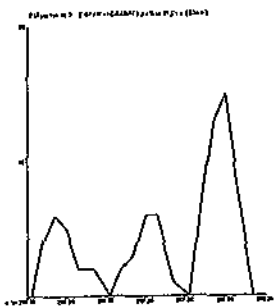
24 Mg
 Mass Calib.
 Actual: 23.95
 Required: 23.90 - 24.10
 Flag:
 Peak Width
 Actual: 0.65
 Required: 0.80
 Flag:



59 Co
Mass Calib.
Actual: 59.00
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



115 In
Mass Calib.
Actual: 115.05
Required: 114.90 - 115.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



208 Pb
Mass Calib.
Actual: 208.00
Required: 207.90 - 208.10
Flag:
Peak Width
Actual: 0.65
Required: 0.80
Flag:

Tune Result: Pass

Metals Standards Log Book # 34 Page #001

NBS 11/11/11

NBS 11/11/11
6020/6020A

(A)

ICP-MS STANDARDS 6020/6020A/3016/3051A Today's Date: 11/11/2011 Expires: 11/18/2011 Prep Date 1% HNO3/1.0% HCL 20 mL HNO3 / 2000 mL DI Water Lot # K19023 20mL HCL / 2000mL DI Water Lot #4110110 Expires: 11/18/2011				Standard 2 11/18/2011 Amount STD 11/11/2011 500 uL Standard 4 11/11/2011 Prepared in 50 mL of 1% HNO3/1.0% HCL 11/11/2011			
Standard 4 Amount STD Manufacturer Lot # 50 uL CCV-A Env. Express 1038407-28139 50 uL CCV-B Env. Express 1038410-28140 50 uL CCV-C Env. Express 1100309-28141				Standard 1 11/18/2011 Amount STD 11/11/2011 50 uL Standard 4 11/11/2011 Prepared in 50 mL of 1% HNO3/1.0% HCL 11/11/2011			
Prepared in 100 mL of 1% HNO3/1.0% HCL 11/11/2011				ICP-MS ICV 11/18/2011 Amount STD 50 uL QCS ICV A CPI 11C174-28548 50 uL QCS ICV B CPI 11C174-28548 Prepared in 50 mL of 1% HNO3/1.0% HCL 11/11/2011			
Standard 3 11/18/2011 Amount STD Manufacturer Lot # 25 uL CCV-A Env. Express 1038407-28139 25 uL CCV-B Env. Express 1038410-28140 25 uL CCV-C Env. Express 1100309-28141 Prepared in 100 mL of 1% HNO3/1.0% HCL 11/11/2011				ICBA Prep: 11/18/2011 1 mL ICSA CPI 11C088-28528 Prepared in 6 mL of 1% HNO3/1.0% HCL 11/11/2011			
				IC9AB Prep: 11/18/2011 1mL ICSA CPI 11C088-28528 0.025mL INT Q2SI 1023605-28210 Prepared in 5 mL of 1% HNO3/1.0% HCL 11/11/2011			
				ICP-LDR 11/18/2011 Amount STD 50 uL CCV-A Env. Express 1038407-28139 50 uL CCV-B Env. Express 1038410-28140 50 uL CCV-C Env. Express 1100309-28141 Prepared in 10 mL of 1% HNO3/1.0% HCL 11/11/2011			

SDM 11/11/11
200.7
Exp (A)

2% HNO3 / 2% HCl BLK					200.7 ICV				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE	AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
40 mL	HCL	BDH	4110110	10/14/2011	0.5ML	QCS ICV A	CPI	11C174-28548	9/17/2012
40 mL	HNO3	JT BAKER	K19023	10/14/2011	0.5ML	QCS ICV B	CPI	11C174-28548	9/17/2012
Prepared in 2000 ml DI Water					Prepared in 50ml 2% HNO3/2% HCl				
STD 1 / LDL 200.7					200.7 IC9A				
0.250 mL	200.7 LDL	O2SI	1028857-28687	11/1/2012	0.5mL	Al	CPI	10E012-27685	4/20/2012
Prepared in 50 ml 2% HNO3/2% HCl					0.5mL Ca CPI 11A008-28528 9/15/2012				
STD 3 / HDL 200.7					0.5mL Mg CPI 10H213-2786 4/20/2012				
0.5 mL	CCV-A	ABSOLUTB	091409-25206	9/14/2012	Prepared in 50 ml 2% HNO3/2% HCl				
0.5 mL	CCV-B	ABSOLUTB	091109-25208	9/14/2012	200.7 IC9AB				
0.5 mL	CCV-C	ABSOLUTB	091009-26207	9/10/2012	0.5mL	Al	CPI	10E012-27685	4/20/2012
STD 2 / CCV1 200.7					0.5mL	Ca	CPI	11A008-28528	9/15/2012
25mL	STD 3		11/4/2011	11/11/2011	0.5mL	Mg	CPI	10H213-2786	4/20/2012
25mL	2% HNO3/2% HCl		11/4/2011	11/11/2011	0.5mL	Fe	O2SI	1022245-27699	4/22/2012
CCV2 200.7					Prepared in 50 ml 2% HNO3/2% HCl				
15mL	STD 3		11/4/2011	11/11/2011					
25mL	2% HNO3/2% HCl		11/4/2011	11/11/2011					

SDM 11/11/11
6010B/6010C
(A)

1% HNO3 / 5% HCl BLK					6010B/6010C IC9A				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE	AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
100 mL	HCL	BDH	4110110	10/14/2011	1mL	AJ	CPI	10E012-27685	4/20/2012
20 mL	HNO3	JT BAKER	K19023	10/14/2011	1mL	Ca	CPI	11A008-28528	9/15/2012
Prepared in 2000 ml DI Water					1mL	Mg	CPI	10H213-2786	4/20/2012
STD 1 / LDL 6010B/6010C					1mL	Fe	O2SI	1022245-27699	4/22/2012
0.5 mL	6010 LDL	ABSOLUTB	091409-25206	9/14/2012	Prepared in 50 ml 1% HNO3/5% HCl				
Prepared in 50 ml 1% HNO3/5% HCl					6010B/6010C IC9AB				
STD 3 / HDL 6010B/6010C					1mL	Al	CPI	10E012-27685	4/20/2012
1mL	CCV-A	ABSOLUTB	091409-25206	9/14/2012	1mL	Ca	CPI	11A008-28528	9/15/2012
1mL	CCV-B	ABSOLUTB	091109-25208	9/14/2012	1mL	Mg	CPI	10H213-2786	4/20/2012
1mL	CCV-C	ABSOLUTB	091009-26207	9/10/2012	1mL	Fe	O2SI	1022245-27699	4/22/2012
Prepared in 100 mL 1% HNO3 / 5% HCl					Prepared in 50 ml 1% HNO3/5% HCl				
STD 2 / CCV1 6010B/6010C					6010B/6010C ICV				
25mL	STD 3		11/11/2011	11/18/2011	0.5ML	QCS ICV A	CPI	11C174-28548	9/17/2012
25mL	1% HNO3/5% HCl		11/11/2011	11/18/2011	0.5ML	QCS ICV B	CPI	11C174-28548	9/17/2012
CCV2 6010B/6010C					Prepared in 50ml 1% HNO3/5% HCl				
15mL	STD 3		11/11/2011	11/18/2011					
25mL	1% HNO3/5% HCl		11/11/2011	11/18/2011					

SDM 11/11/11

Metals Digestion Worksheet

Method Name 3015 Digestion

Prep Method M3015

Set 111110A

Units mL

Spikes	
Spiked ID 1	LCSW LOT# 1028408-29435
Spiked ID 2	LCSW LOT# 1028416-29433
Spiked ID 3	
Spiked ID 4	
Spiked By	NM Date: 11/10/11 10:40:00 AM
Witnessed By	KWS Date: 11/10/11 10:40:00 AM

Starting Temp:	25 C
Ending Temp:	170 C
Temperature Type:	Microwave
Sufficient Vol for Matrix QC:	YES
End Date/Time	11/10/11 12:00

Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1 111110A Blk				45mL	50mL	11/10/11 10:40	equip: Venus
2 111110A LCS		90uL	1+2	45mL	50mL	11/10/11 10:40	equip: Venus
3 AY48273	AY48273W01			45mL	50mL	11/10/11 10:40	equip: Venus
4 AY48273 DUP	AY48273W01			45mL	50mL	11/10/11 10:40	equip: Venus
5 AY48273 MS	AY48273W01	90uL	1+2	45mL	50mL	11/10/11 10:40	equip: Venus
6 AY48639	AY48639W05			45mL	50mL	11/10/11 10:40	equip: Venus
7 AY48640	AY48640W05			45mL	50mL	11/10/11 10:40	equip: Venus
8 AY48641	AY48641W05			45mL	50mL	11/10/11 10:40	equip: Venus
9 AY48642	AY48642W05			45mL	50mL	11/10/11 10:40	equip: Venus
10 AY48643	AY48643W05			45mL	50mL	11/10/11 10:40	equip: Venus
11 AY48644	AY48644W02			45mL	50mL	11/10/11 10:40	equip: Venus
12 AY49333	AY49333W13			45mL	50mL	11/10/11 10:40	equip: Venus
13 AY49334	AY49334W51			45mL	50mL	11/10/11 10:40	equip: Venus
14 AY49334 MS	AY49334W52	90uL	1+2	45mL	50mL	11/10/11 10:40	equip: Venus
15 AY49334 MSD	AY49334W52	90uL	1+2	45mL	50mL	11/10/11 10:40	equip: Venus
16 AY49336	AY49336W13			45mL	50mL	11/10/11 10:40	equip: Venus
17 AY49481	AY49481W13			45mL	50mL	11/10/11 10:40	equip: Venus
18 AY49482	AY49482W13			45mL	50mL	11/10/11 10:40	equip: Venus
19 AY49559	AY49559W31			45mL	50mL	11/10/11 10:40	equip: Venus
20 AY49559 MS	AY49559W31	90uL	1+2	45mL	50mL	11/10/11 10:40	equip: Venus
21 AY49559 MSD	AY49559W31	90uL	1+2	45mL	50mL	11/10/11 10:40	equip: Venus
22 AY49561	AY49561W08			45mL	50mL	11/10/11 10:40	equip: Venus
23 AY49562	AY49562W08			45mL	50mL	11/10/11 10:40	equip: Venus

Solvent and Lot#
HNO3 J.T.B k19023 0095

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	NBS
Date	11-10-11
Time	13:00
Moved to	MSALS

Technician's Initials	
Scanned By	nm
Sample Preparation	lo
Digestion	lo
Bring up to volume	nm
Modified	11/10/11 10:19:53 AM

Reviewed By: *EA*

Date: 11-10-11

Metals Digestion Worksheet

Method Name 3015 Digestion

Prep Method M3015

Set 111110A

Units mL

Spikes	
Spiked ID 1	LCSW LOT# 1028408-29435
Spiked ID 2	LCSW LOT# 1028416-29433
Spiked ID 3	
Spiked ID 4	
Spiked By	NM Date: 11/10/11 10:40:00 AM
Witnessed By	KWS Date: 11/10/11 10:40:00 AM

Starting Temp:	25 C
Ending Temp:	170 C
Temperature Type:	Microwave
Sufficient Vol for Matrix QC:	YES
End Date/Time	11/10/11 12:00

Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
24 AY50005	AY50005W08			45mL	50mL	11/10/11 10:40	equip: Venus

Solvent and Lot
HNO3 J.T.B k19023 0095

Sample COC Transfer
Sample prep employee Initials nm
Analyst's initials NBS
Date 11-10-11
Time 13:00
Moved to METACS

Technician's Initials
Scanned By nm
Sample Preparation to
Digestion to
Bring up to volume nm
Modified 11/10/11 10:19:53 AM

Reviewed By: SA

419

Date: 11-10-11

6020/200.8 Injection Log

Directory: K:\MCP-MS Optimus\raw data output csv\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	11 Nov 2011	12:08	Calibration Blank		111111A	1.
2	11 Nov 2011	12:14	111111 Standard 1		111111A	1.
3	11 Nov 2011	12:20	111111 Standard 2		111111A	1.
4	11 Nov 2011	12:27	111111 Standard 3		111111A	1.
5	11 Nov 2011	12:33	111111 Standard 4		111111A	1.
6	11 Nov 2011	12:39	ICV 111111		111111A	1.
8	11 Nov 2011	12:57	ICB 111111		111111A	1.
9	11 Nov 2011	13:03	CCV 111111		111111A	1.
10	11 Nov 2011	13:09	CCB 111111		111111A	1.
11	11 Nov 2011	13:15	ICSA 111111		111111A	1.
12	11 Nov 2011	13:21	ICSAB 111111		111111A	1.
13	11 Nov 2011	13:33	CCV 111111		111111A	1.
14	11 Nov 2011	13:46	CCB 111111		111111A	1.
15	11 Nov 2011	14:16	111110A-3015-BLK		111111A	1.
16	11 Nov 2011	14:22	111110A-3015-LCS		111111A	1.
23	11 Nov 2011	15:05	CCV 111111		111111A	1.
24	11 Nov 2011	15:17	CCB 111111		111111A	1.
36	11 Nov 2011	16:30	CCV 111111		111111A	1.
37	11 Nov 2011	16:42	CCB 111111		111111A	1.
42	11 Nov 2011	17:12	AY49481W13		111111A	1.
43	11 Nov 2011	17:19	AY49482W13		111111A	1.
49	11 Nov 2011	18:04	CCV 111111		111111A	1.
50	11 Nov 2011	18:16	CCB 111111		111111A	1.

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

7979 GSRI Avenue

Baton Rouge, LA 70820

Report Date 11/14/2011

GCAL Report 211110257



Deliver To Appl, Inc.
908 North Temperance Ave
Clovis, CA 93611
559-275-2175

Attn Cynthia Clark

Project Appl, Inc.

CASE NARRATIVE

Client: Environet, Inc. **Report:** 211110257

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the EPH analysis for prep batch 468306 and 468721, the MS/MSD exhibited recovery failures. The LCS/LCSD recoveries are acceptable.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

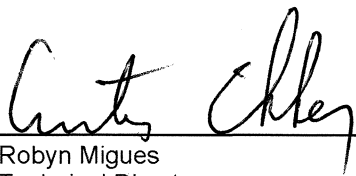
J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.



Robyn Miguez
Technical Director
GCAL REPORT 211110257

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21110312406	ES050	Water	10/25/2011 09:50	10/29/2011 09:10
21110312407	ES051	Water	10/25/2011 11:30	10/29/2011 09:10

2E
WATER ORGANIC SURROGATE RECOVERY

Lab Name: GCAL Contract: _____
 Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 211110257
 GC Column (1): DB-5MS-30M ID: .25 (mm) GC Column (2): _____ ID: _____ (mm)
 Method: MASSEPH

EPA SAMPLE NO.	SMC1				SMC1				SMC2				SMC2				TOT OUT
	1-(1)	Lo	Hi	F	1-(2)	Lo	Hi	F	2-(1)	Lo	Hi	F	2-(2)	Lo	Hi	F	
1. ES050	113	40	140					89	40	140							0
2. ES051	77	40	140					83	40	140							0
3. MB1002043	98	40	140					79	40	140							0
4. LCS1004105	98	40	140					82	40	140							0
5. LCSD1004106	100	40	140					84	40	140							0
6. MB1004104	92	40	140					80	40	140							0
7. LCS1002044	101	40	140					69	40	140							0
8. LCSD1002045	103	40	140					83	40	140							0

SMC 1 : 1-Chlorooctadecane

SMC 2 : O-Terphenyl

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

3E
WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL
 Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 211110257
 Contract: _____ Method: MASSEPH
 Prep Batch: 468306 Analytical Batch: 468719

SAMPLE NO : 1002044

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
C11-C22 Aromatics	ug/L	250	0	164	66		40 - 140
C19-C36 Aliphatic Hydrocarbons	ug/L	150	0	128	85		40 - 140
C9-C18 Aliphatic Hydrocarbons	ug/L	100	0	47.3	47		40 - 140

SAMPLE NO : 1002045

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	QC. LIMITS RPD
C11-C22 Aromatics	ug/L	250	178	71		8		40 - 140	0 - 40
C19-C36 Aliphatic Hydrocarbons	ug/L	150	107	71		18		40 - 140	0 - 40
C9-C18 Aliphatic Hydrocarbons	ug/L	100	42.8	43		10		40 - 140	0 - 40

RPD : 0 out of 3 outside limits

Spike Recovery: 0 out of 6 outside limits

FORM III ORG-1

211110257 6

3E
WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL
 Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 211110257
 Contract: _____ Method: MASSEPH
 Prep Batch: 468721 Analytical Batch: 469140

SAMPLE NO : 1004105

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
C11-C22 Aromatics	ug/L	250	0	188	75		40 - 140
C19-C36 Aliphatic Hydrocarbons	ug/L	150	0	101	67		40 - 140
C9-C18 Aliphatic Hydrocarbons	ug/L	100	0	51.9	52		40 - 140

SAMPLE NO : 1004106

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	RPD
C11-C22 Aromatics	ug/L	250	191	76		2		40 - 140	0 - 40
C19-C36 Aliphatic Hydrocarbons	ug/L	150	94.2	63		7		40 - 140	0 - 40
C9-C18 Aliphatic Hydrocarbons	ug/L	100	52.8	53		2		40 - 140	0 - 40

RPD : 0 out of 3 outside limits

Spike Recovery: 0 out of 6 outside limits

FORM III ORG-1

211110257 7

3E
WATER ORGANICS MS/MSD RECOVERY

Lab Name: GCAL Sample ID: ES047
 Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 211110257
 Contract: _____ Method: MASSEPH
 Prep Batch: 468306 Analytical Batch: 468719

SAMPLE NO : 21110312403

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
C11-C22 Aromatics	ug/L	255	166	310	56		40 - 140
C19-C36 Aliphatic Hydrocarbons	ug/L	153	0	120	78		40 - 140
C9-C18 Aliphatic Hydrocarbons	ug/L	102	40	74	33	*	40 - 140

SAMPLE NO : 21110312404

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	RPD
C11-C22 Aromatics	ug/L	255	302	53		3		40 - 140	0 - 40
C19-C36 Aliphatic Hydrocarbons	ug/L	153	121	79		.8		40 - 140	0 - 40
C9-C18 Aliphatic Hydrocarbons	ug/L	102	57	17	*	26		40 - 140	0 - 40

RPD : 0 out of 3 outside limits
 Spike Recovery: 2 out of 6 outside limits

3E
WATER ORGANICS MS/MSD RECOVERY

Lab Name: GCAL Sample ID: ES053
 Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 211110257
 Contract: _____ Method: MASSEPH
 Prep Batch: 468721 Analytical Batch: 469140

SAMPLE NO : 21110312409

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
C11-C22 Aromatics	ug/L	253	0	188	74		40 - 140
C19-C36 Aliphatic Hydrocarbons	ug/L	152	226	402	116		40 - 140
C9-C18 Aliphatic Hydrocarbons	ug/L	101	0	50.6	50		40 - 140

SAMPLE NO : 21110312410

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	RPD
C11-C22 Aromatics	ug/L	253	201	80		7		40 - 140	0 - 40
C19-C36 Aliphatic Hydrocarbons	ug/L	152	445	145	*	10		40 - 140	0 - 40
C9-C18 Aliphatic Hydrocarbons	ug/L	101	55.1	55		9		40 - 140	0 - 40

RPD : 0 out of 3 outside limits
 Spike Recovery: 1 out of 6 outside limits

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL Sample ID: MB1002043
 Lab Code: LA024 Case No.: _____ Contract: _____
 Lab Sample ID: 1002043 SAS No.: _____ SDG No.: 211110257
 Matrix: Water Sulfur Cleanup: (Y/N) N Date Extracted: 11/02/11
 Date Analyzed (1): 11/04/11 Time (1): 1118 Date Analyzed (2): _____ Time (2): _____
 Instrument ID (1): GCS19B Instrument ID (2): _____ (mm)
 GC Column (1): DB-5MS-30M ID: .25 (mm) GC Column (2): _____ ID: _____
 Method: MASSEPH Prep Batch: 468306 Analytical Batch: 468719
 Lab File ID: 2111104/sv19b0

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

SAMPLE NO.	LAB	DATE	TIME	INSTRUMENT	
	SAMPLE ID	ANALYZED	ANALYZED	ID	
1.	LCS1002044	1002044	11/04/11	1206	GCS19B
2.	LCSD1002045	1002045	11/04/11	1254	GCS19B
3.	ES051	21110312407	11/04/11	2238	GCS19B

4C
ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL Sample ID: MB1004104
Lab Code: LA024 Case No.: _____ Contract: _____
Lab Sample ID: 1004104 SAS No.: _____ SDG No.: 211110257
Matrix: Water Sulfur Cleanup: (Y/N) N Date Extracted: 11/08/11
Date Analyzed (1): 11/10/11 Time (1): 1515 Date Analyzed (2): _____ Time (2): _____
Instrument ID (1): GCS19B Instrument ID (2): _____ (mm)
GC Column (1): DB-5MS-30M ID: .25 (mm) GC Column (2): _____ ID: _____
Method: MASSEPH Prep Batch: 468721 Analytical Batch: 469140
Lab File ID: 2111110/sv19b0

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	<i>SAMPLE NO.</i>	<i>LAB SAMPLE ID</i>	<i>DATE ANALYZED</i>	<i>TIME ANALYZED</i>	<i>INSTRUMENT ID</i>
1.	LCS1004105	1004105	11/10/11	1603	GCS19B
2.	LCSD1004106	1004106	11/10/11	1651	GCS19B
3.	ES050	21110312406	11/10/11	1740	GCS19B

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: ES050
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211110257
 Sample wt/vol: 990 Units: mL Lab Sample ID: 21110312406
 Level: (low/med) LOW Date Collected: 10/25/11 Time: 0950
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 10/29/11
 GC Column: DB-5MS-30M ID: .25 (mm) Date Extracted: 11/08/11
 Concentrated Extract Volume: 2000 (µL) Date Analyzed: 11/10/11 Time: 1740
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: SMH
 Injection Volume: 1 (µL) Prep Method: MASS EPH
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSEPH
 Prep Batch: 468721 Analytical Batch: 469140 Sulfur Cleanup: (Y/N) N Instrument ID: GCS19B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111110/sv19b060

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCSV-02-22	C11-C22 Aromatics	42.5	U	42.5	42.5	101
GCSV-02-24	C19-C36 Aliphatic Hydrocarbons	60.6	U	31.6	60.6	101
GCSV-02-23	C9-C18 Aliphatic Hydrocarbons	22.0	U	22.0	22.0	101

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111110.b/sv19b060.d
 Lab Smp Id: 21110312406 Client Smp ID: 1
 Inj Date : 10-NOV-2011 17:40
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312406*1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111110.b/AROEPhmass.m
 Meth Date : 11-Nov-2011 15:43 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 60
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	990.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

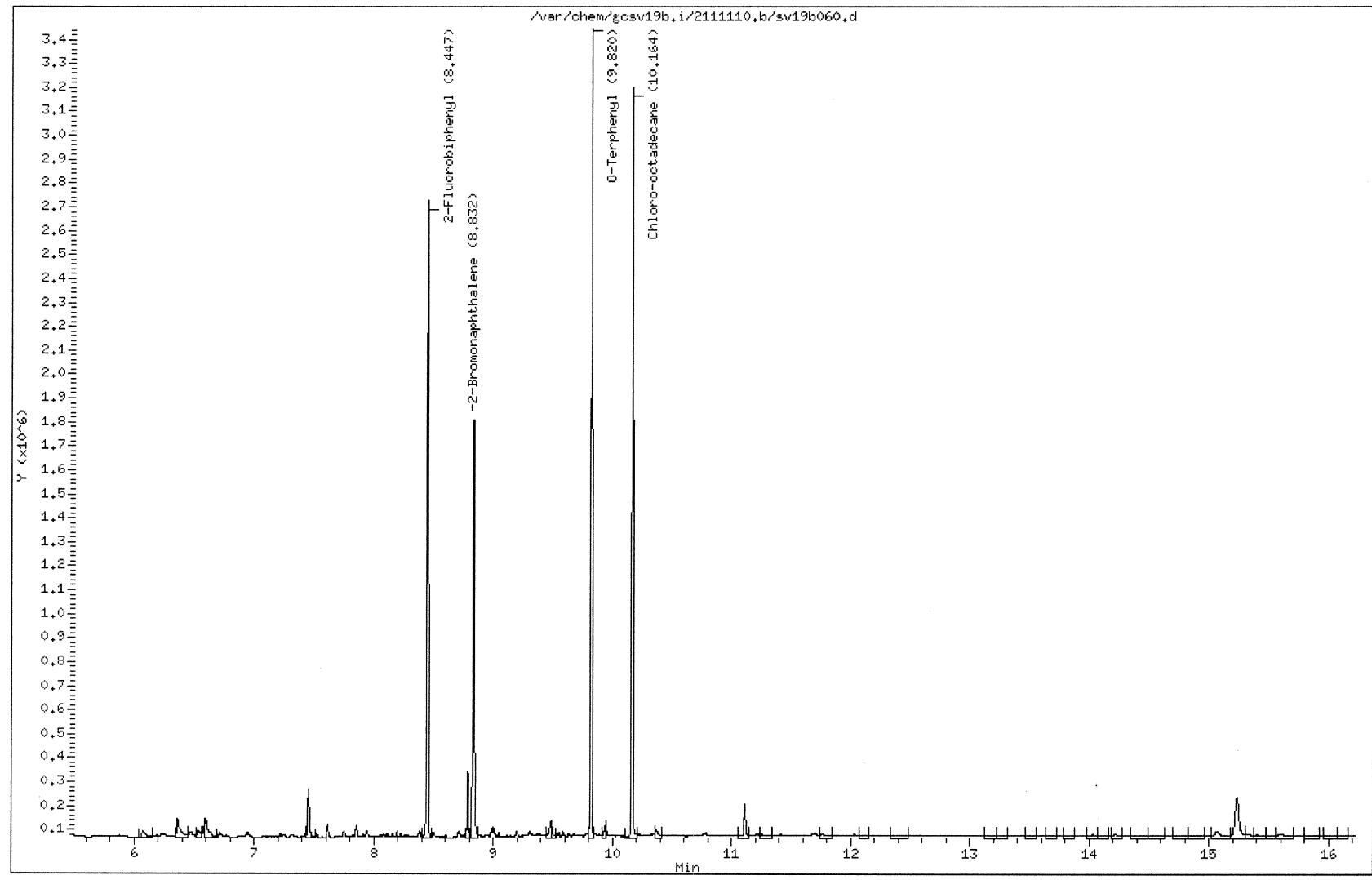
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
\$ 3 2-Fluorobiphenyl	8.447	8.454	-0.007	43336012	17.6343	35.6
\$ 5 2-Bromonaphthalene	8.832	8.838	-0.006	32326254	20.6060	41.6
\$ 10 O-Terphenyl	9.820	9.822	-0.002	52363040	17.7574	35.9
\$ 11 Chloro-octadecane	10.164	10.158	0.006	44270171	16.1599	32.6
M 113 Total Surrogate Area				172295477		(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation (BLOQ).

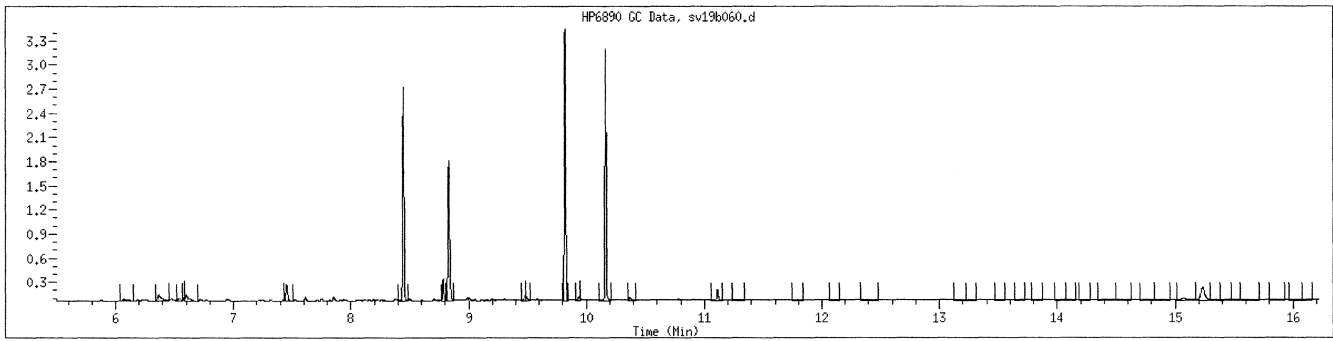
Data File: /var/chem/gcsv19b,i/2111110,b/sv19b060.d
Date : 10-NOV-2011 17:40
Client ID: 1
Sample Info: 21110312406*1
Volume Injected (uL): 1.0
Column phase: DB-5MS-30M

Instrument: gcsv19b.i
Operator: smh
Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312406 SampleType : SAMPLE
Injection Date: 11/10/2011 17:40 Instrument : gcsv19b.i
Operator : smh
Sample Info : 21110312406*1
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/AROEPhmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111110.b/sv19b061.d
Lab Smp Id: 21110312406 Client Smp ID: 1
Inj Date : 10-NOV-2011 18:04
Operator : smh Inst ID: gcsv19b.i
Smp Info : 21110312406*1
Misc Info :
Comment :
Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
Meth Date : 11-Nov-2011 15:05 dlb Quant Type: ESTD
Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
Als bottle: 61
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ALmasseph.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	990.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
\$ 15 Chlorooctadecane	10.160	10.215	-0.055	17707876	6.46372	13.1(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gosv19b,i/2111110,b/sv19b061.d

Page 1

Date : 10-NOV-2011 18:04

Client ID: 1

Instrument: gosv19b.i

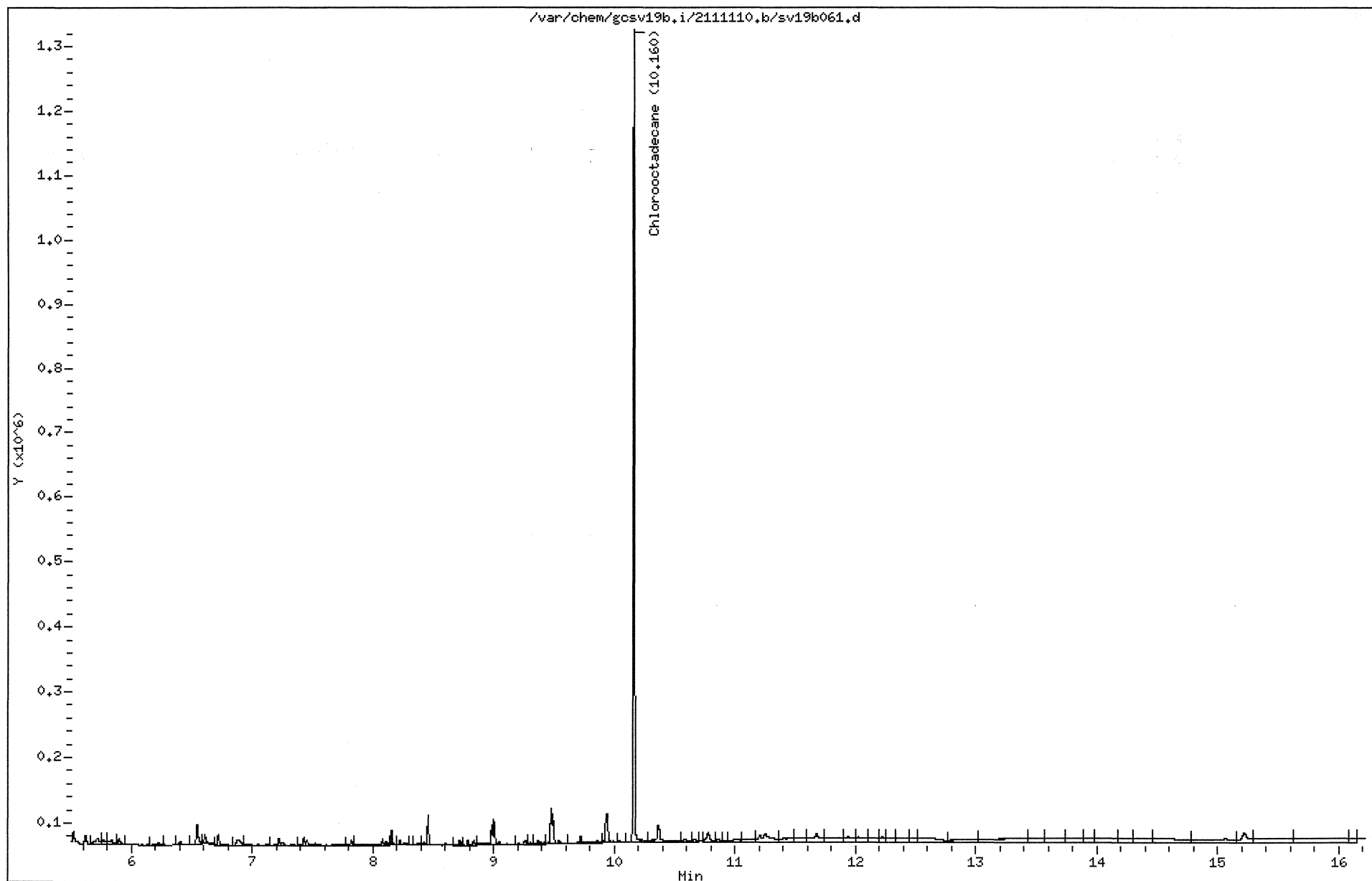
Sample Info: 21110312406*1

Volume Injected (uL): 1.0

Operator: smh

Column phase: DB-5MS-30M

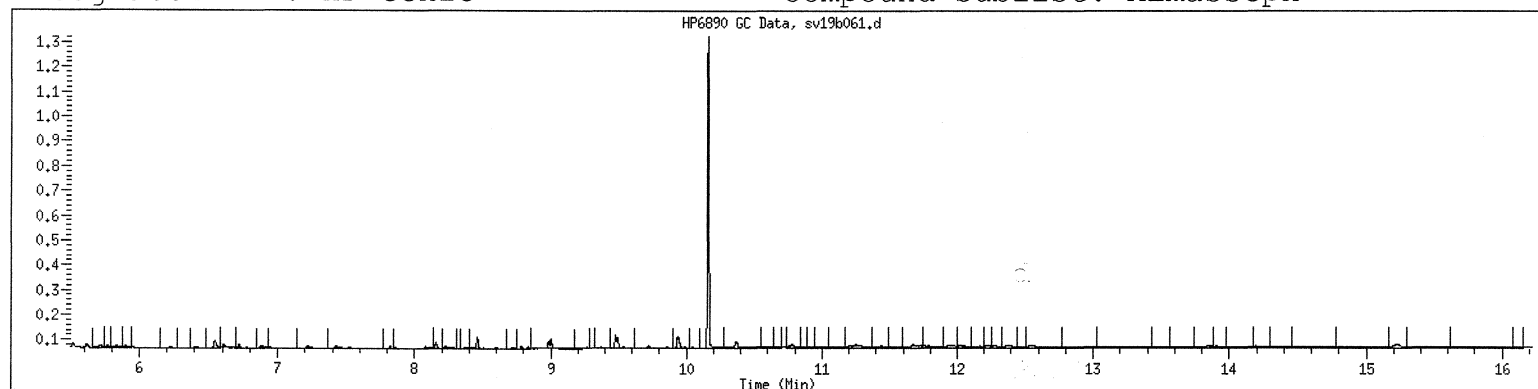
Column diameter: 0,25



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312406 SampleType : SAMPLE
Injection Date: 11/10/2011 18:04 Instrument : gcsv19b.i
Operator : smh
Sample Info : 21110312406*1
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: ES051
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211110257
 Sample wt/vol: 970 Units: mL Lab Sample ID: 21110312407
 Level: (low/med) LOW Date Collected: 10/25/11 Time: 1130
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 10/29/11
 GC Column: DB-5MS-30M ID: .25 (mm) Date Extracted: 11/02/11
 Concentrated Extract Volume: 2000 (µL) Date Analyzed: 11/04/11 Time: 2238
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: SMH
 Injection Volume: 1 (µL) Prep Method: MASS EPH
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSEPH
 Prep Batch: 468306 Analytical Batch: 468719 Sulfur Cleanup: (Y/N) N Instrument ID: GCS19B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111104/sv19b082

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCSV-02-22	C11-C22 Aromatics	43.4	U	43.4	43.4	103
GCSV-02-24	C19-C36 Aliphatic Hydrocarbons	61.9	U	32.3	61.9	103
GCSV-02-23	C9-C18 Aliphatic Hydrocarbons	22.5	U	22.5	22.5	103

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b082.d
 Lab Smp Id: 21110312407 Client Smp ID: 1
 Inj Date : 04-NOV-2011 22:38
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312407*1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/AROEPhmass.m
 Meth Date : 08-Nov-2011 14:38 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 82
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	970.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
\$ 3 2-Fluorobiphenyl	8.450	8.454	-0.004	43734530	17.7964	36.7
\$ 5 2-Bromonaphthalene	8.833	8.839	-0.006	31155889	19.8600	40.9
\$ 10 O-Terphenyl	9.815	9.823	-0.008	48759159	16.5353	34.1
\$ 11 Chloro-octadecane	10.153	10.174	-0.021	30197570	11.0230	22.7
M 113 Total Surrogate Area				153847148		(a)

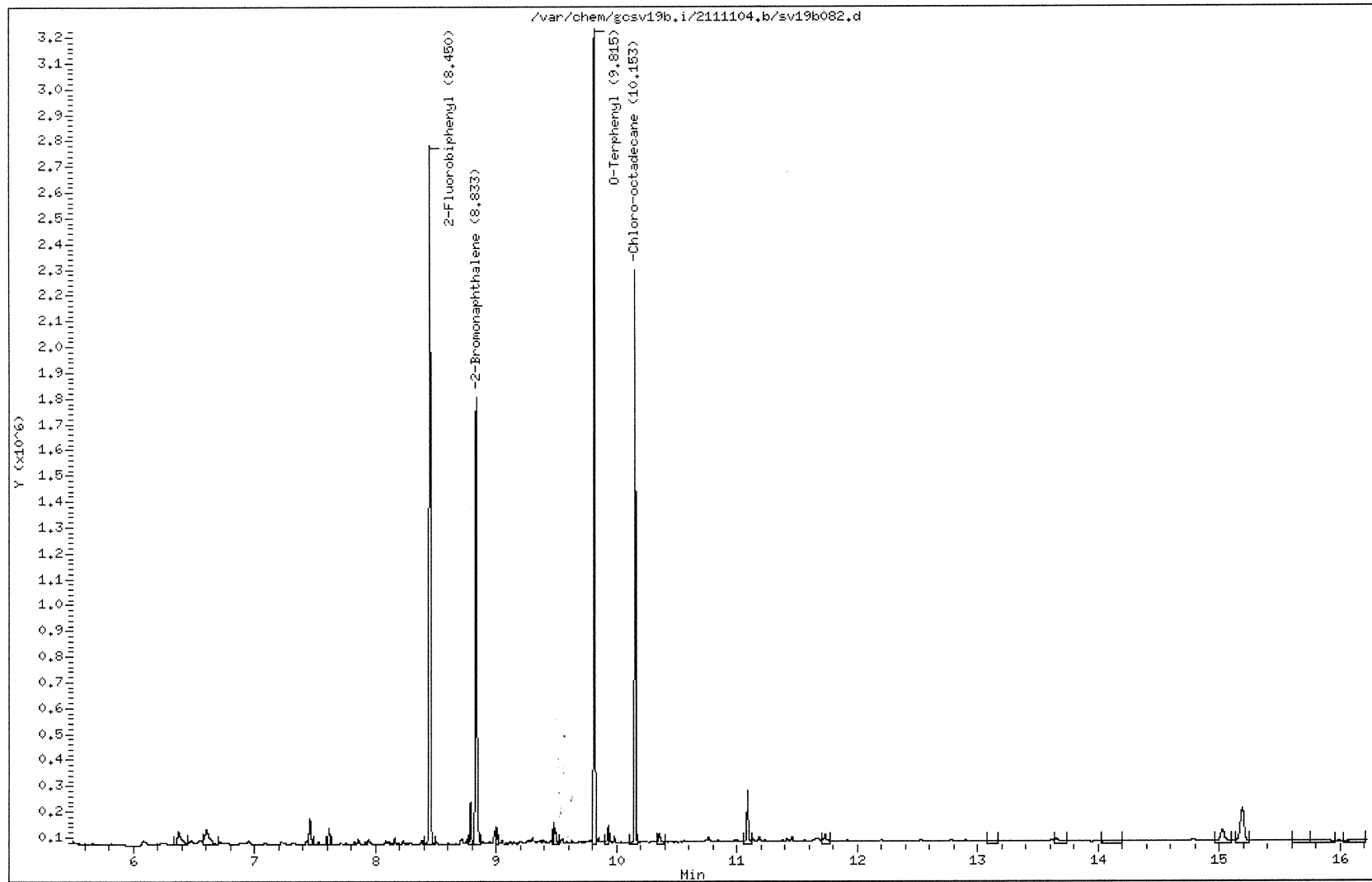
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation (BLOQ).

Data File: /var/chem/gosv19b.i/2111104,b/sv19b082.d
Date : 04-NOV-2011 22:38
Client ID: 1
Sample Info: 21110312407*1
Volume Injected (uL): 1.0
Column phase: DB-5MS-30M

Page 1

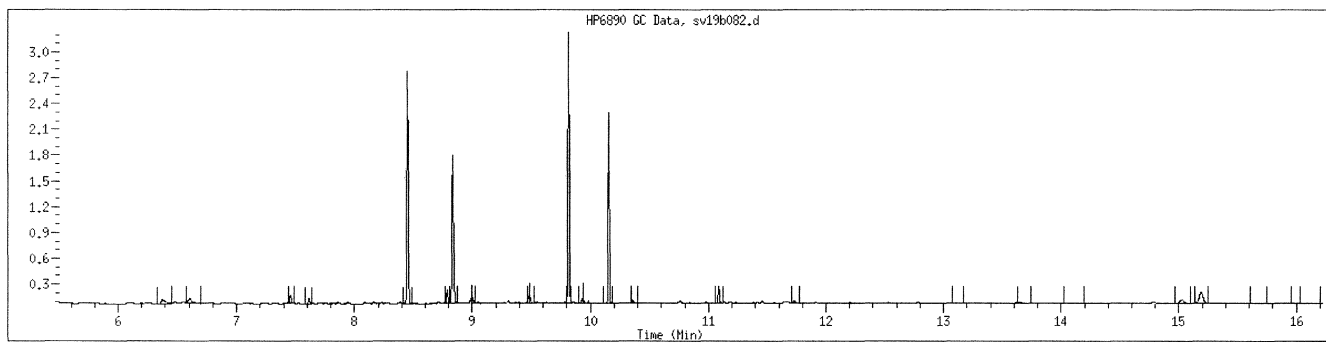
Instrument: gosv19b.i
Operator: smh
Column diameter: 0.25



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312407 SampleType : SAMPLE
Injection Date: 11/04/2011 22:38 Instrument : gcsv19b.i
Operator : smh
Sample Info : 21110312407*1
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/AROEPhmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b083.d
 Lab Smp Id: 21110312407 Client Smp ID: 1
 Inj Date : 04-NOV-2011 23:02
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312407*1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 14:08 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 83
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	970.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
10 C-18	9.475	9.504	-0.029	24012147	7.94765	16.4 (M1)
M 11 Alip C9-C18				24012147	7.94765	16.4
114 C-36	10.152	15.144	-4.992	50794345	17.3618	35.8 (AM1)
M 24 Alip C19-C36				50794345	17.3618	35.8

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M1- Compound response manually integrated because Target system did not integrate.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b083s.d
Lab Smp Id: 21110312407 Client Smp ID: 1
Inj Date : 04-NOV-2011 23:02
Operator : smh Inst ID: gcsv19b.i
Smp Info : 21110312407*1
Misc Info :
Comment :
Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
Meth Date : 08-Nov-2011 14:08 smh Quant Type: ESTD
Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
Als bottle: 83
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: Chloro.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	970.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
\$ 15 Chlorooctadecane	10.152	10.216	-0.064	11935988	4.35687	8.98 (R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Date : 04-NOV-2011 23:02

Client ID: 1

Instrument: gosv19b.i

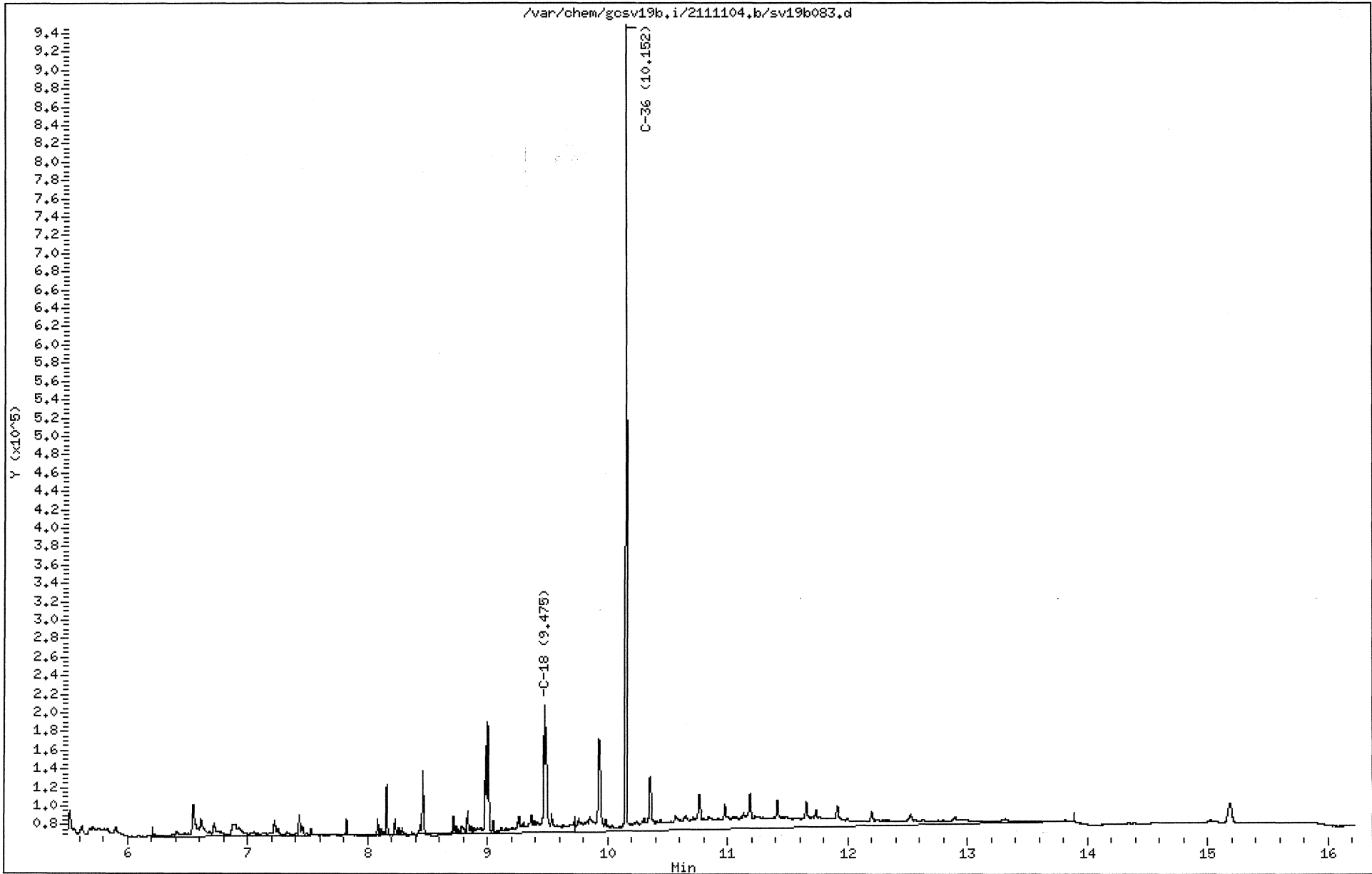
Sample Info: 21110312407*1

Operator: smh

Volume Injected (uL): 1.0

Column diameter: 0.25

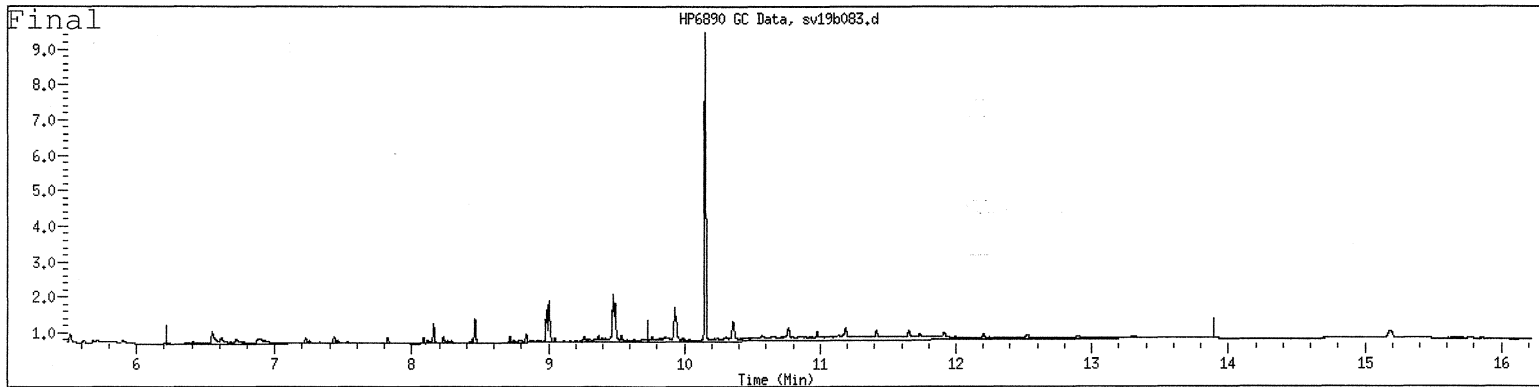
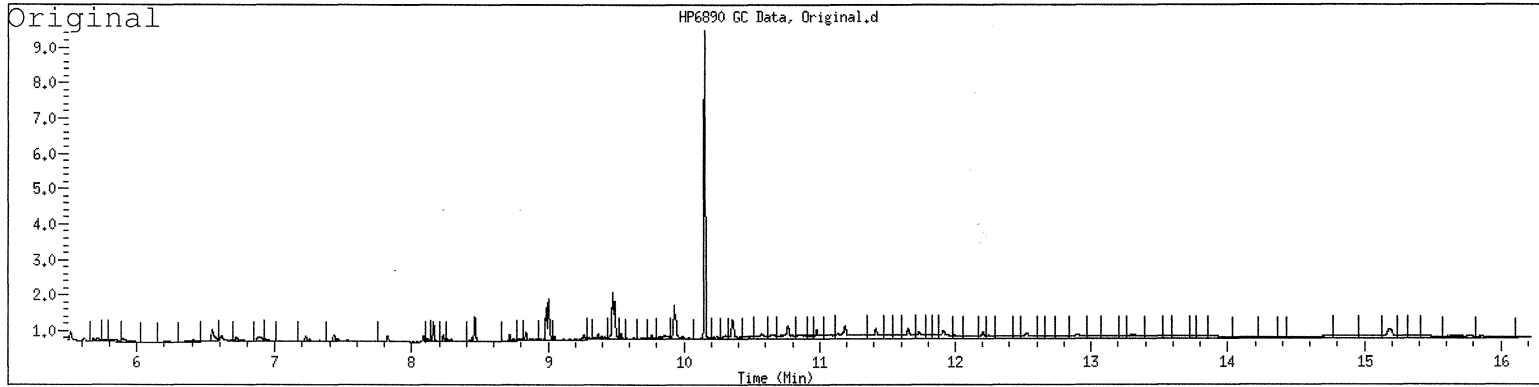
Column phase: DB-5MS-30M



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312407 SampleType : SAMPLE
Injection Date: 11/04/2011 23:02 Instrument : gcsv19b.i
Operator : smh
Sample Info : 21110312407*1
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph



GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-NOV-2011 12:55
 End Cal Date : 03-NOV-2011 14:30
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
 Cal Date : 17-Nov-2011 12:26 smh
 Curve Type : Average

Calibration File Names:

Level 1: /var/chem/gcsv19b.i/2111103.b/sv19b052.d
 Level 2: /var/chem/gcsv19b.i/2111103.b/sv19b053.d
 Level 3: /var/chem/gcsv19b.i/2111103.b/sv19b054.d
 Level 4: /var/chem/gcsv19b.i/2111103.b/sv19b055.d
 Level 5: /var/chem/gcsv19b.i/2111103.b/sv19b056.d

Compound	1.000 Level 1	10.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRF	% RSD
1 C-9	2907155	2795641	2675594	2679051	2539259	2719340	5.104
2 C-10	2799368	2826425	2717674	2752582	2600027	2739215	3.226
3 C-11	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 C-12	2927391	2898654	2764473	2774841	2641941	2801460	4.102
5 C-13	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 C-14	2986461	2962295	2862352	2862981	2716594	2878136	3.701
7 C-15	+++++	+++++	+++++	+++++	+++++	+++++	+++++
8 C-16	3076201	3075973	2956170	2972906	2834259	2983102	3.364
9 C-17	+++++	+++++	+++++	+++++	+++++	+++++	+++++
10 C-18	3132014	3109313	2986762	3012326	2866031	3021289	3.526
M 11 Alip C9-C18	2971432	2944717	2827171	2842448	2699685	2857090	3.779
12 C-19	3105166	3106510	2982171	3015246	2877102	3017239	3.169
13 C-20	3095123	3146395	3018289	3051261	2915502	3045314	2.859
14 C-21	+++++	+++++	+++++	+++++	+++++	+++++	+++++
16 C-22	3086197	3160319	3040998	3073189	2942532	3060647	2.587
17 C-23	+++++	+++++	+++++	+++++	+++++	+++++	+++++
18 C-24	3088147	3182819	3098256	3124206	2998582	3098402	2.157
19 C-25	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 C-26	3093703	3199157	3120962	3153549	3033072	3120089	2.004
21 C-27	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 C-28	3086943	3160312	3086851	3125844	3019987	3095987	1.692
115 C-30	3100257	3187831	3112669	3153703	3047243	3120341	1.716

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-NOV-2011 12:55
 End Cal Date : 03-NOV-2011 14:30
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
 Cal Date : 17-Nov-2011 12:26 smh
 Curve Type : Average

Compound	1.000 Level 1	10.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRF	% RSD
23 C-35	+++++	+++++	+++++	+++++	+++++	+++++	+++++
114 C-36	2886196	3002979	2951503	2961566	2825927	2925634	2.383
M 24 Alip C19-C36	3067716	3143290	3051462	3082321	2957493	3060457	2.196
\$ 15 Chlorooctadecane	2745086	2791763	2723572	2771406	2666079	2739581	1.772

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111103.b/sv19b052.d
 Lab Smp Id: 1201 Client Smp ID: 1 84-15-4
 Inj Date : 03-NOV-2011 12:55
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1201*1 84-16-1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 09:16 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 12:55 Cal File: sv19b052.d
 Als bottle: 52 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS						
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (UG/ML)	ON-COL (UG/ML)	
1 C-9	6.222	6.232	-0.010	2907155	1.00000	1.00 (M2)	
2 C-10	6.925	6.929	-0.004	2799368	1.00000	1.00 (M2)	
4 C-12	7.823	7.833	-0.010	2927391	1.00000	1.00 (M2)	
6 C-14	8.462	8.471	-0.009	2986461	1.00000	1.00 (M2)	
8 C-16	9.008	9.014	-0.006	3076201	1.00000	1.00 (M2)	
10 C-18	9.502	9.504	-0.002	3132014	1.00000	1.00 (M2)	
M 11 Alip C9-C18				17828590	6.00000	6.00	
12 C-19	9.738	9.774	-0.036	3105166	1.00000	1.00 (M2)	
13 C-20	9.965	9.957	0.008	3095123	1.00000	1.00 (M2)	
\$ 15 Chlorooctadecane	10.185	10.217	-0.032	2745086	1.00000	1.00 (M2)	
16 C-22	10.403	10.384	0.019	3086197	1.00000	1.00 (M2)	
18 C-24	10.826	10.796	0.030	3088147	1.00000	1.00 (M2)	
20 C-26	11.263	11.223	0.040	3093703	1.00000	1.00 (M2)	

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
22 C-28	11.738	11.724	0.014	3086943	1.00000	1.00 (M2)
115 C-30	12.298	12.250	0.048	3100257	1.00000	1.00 (AM2)
114 C-36	15.181	15.144	0.037	2886196	1.00000	1.00 (AM2)
M 24 Alip C19-C36				24541732	8.00000	8.00

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Date : 03-NOV-2011 12:55

Client ID: 1 84-15-4

Instrument: gcsv19b.i

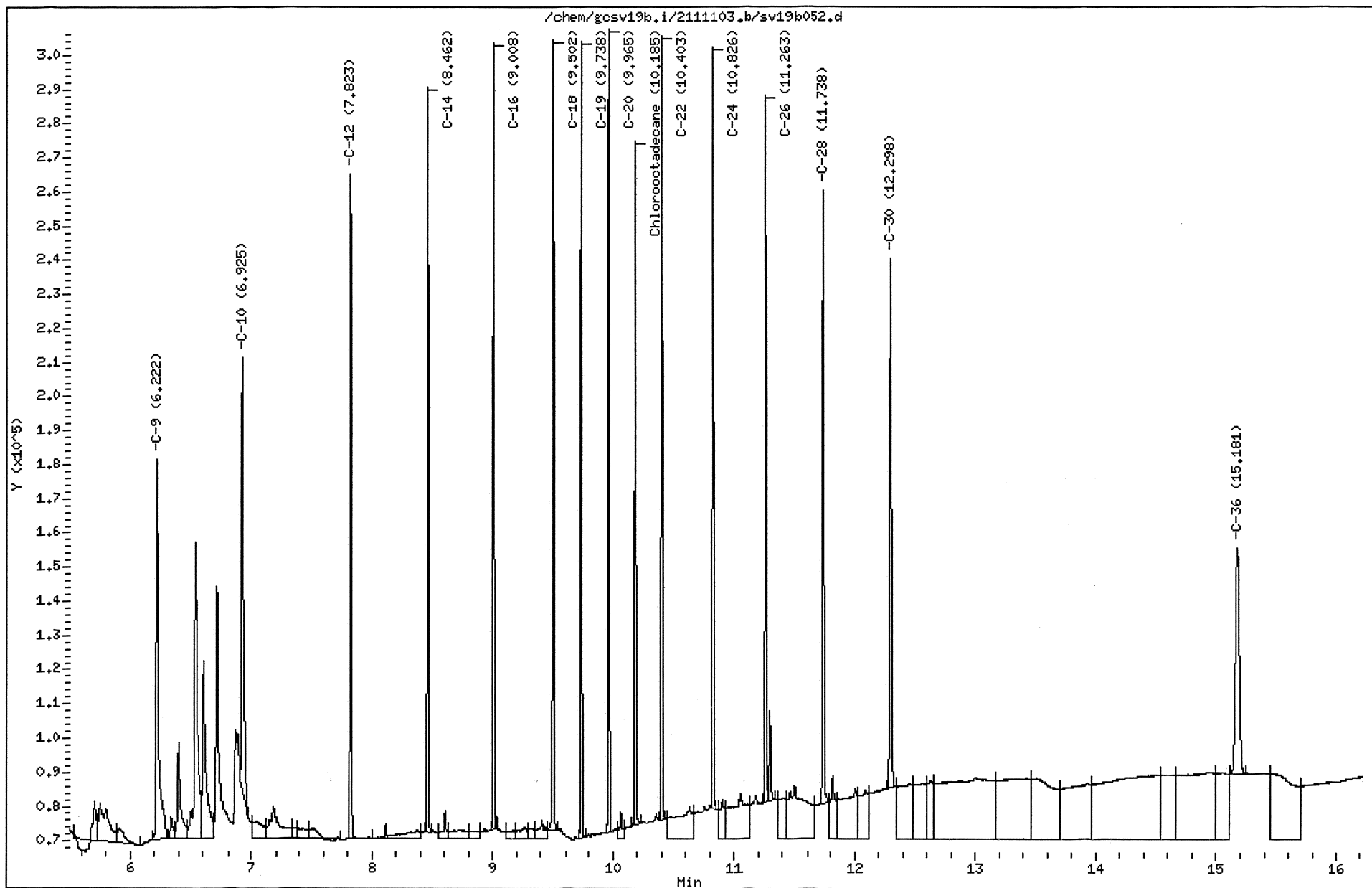
Sample Info: 1201x1 84-16-1

Volume Injected (uL): 1.0

Operator: sah

Column phase: DB-5MS-30M

Column diameter: 0.25

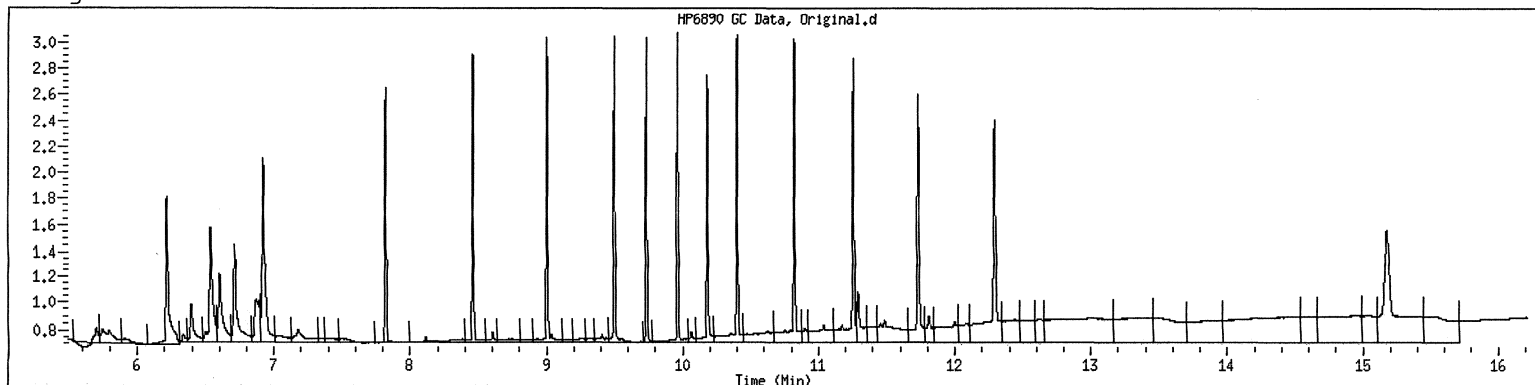


211110257 31

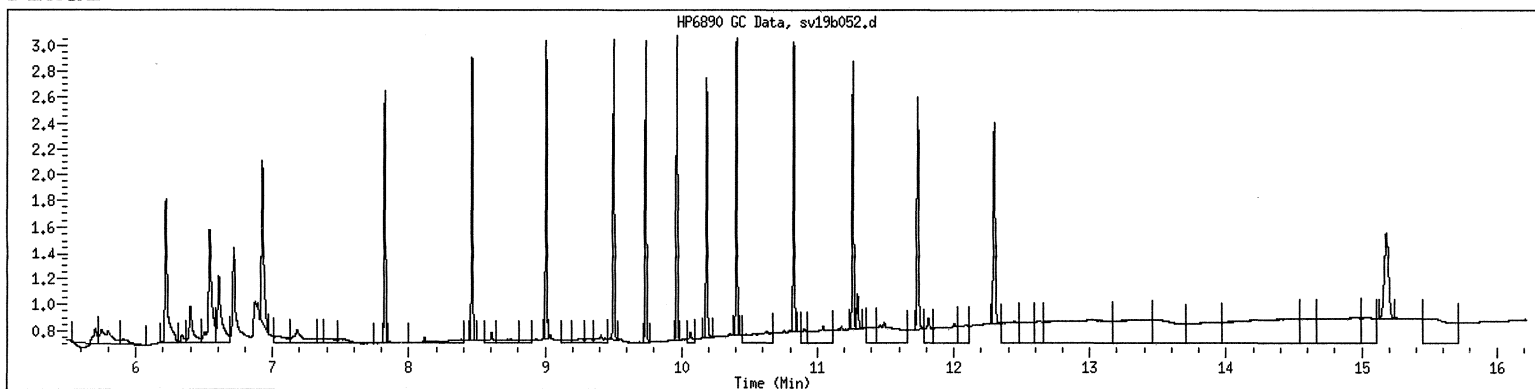
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1201 SampleType : CALIB_1
Injection Date: 11/03/2011 12:55 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1201*1 84-16-1
Misc Info :
Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111103.b/sv19b053.d
 Lab Smp Id: 1202 Client Smp ID: 1 84-15-4
 Inj Date : 03-NOV-2011 13:18
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1202*1 84-16-1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 09:16 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053.d
 Als bottle: 53 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS						
	RT	EXP RT	DLT RT	RT	RESPONSE	CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 C-9	6.225	6.232	-0.007	27956412	10.0000	9.80 (M2)	
2 C-10	6.929	6.929	0.000	28264251	10.0000	10.0 (M2)	
4 C-12	7.825	7.833	-0.008	28986541	10.0000	9.95 (M2)	
6 C-14	8.463	8.471	-0.008	29622947	10.0000	9.96 (M2)	
8 C-16	9.005	9.014	-0.009	30759729	10.0000	10.0 (M2)	
10 C-18	9.495	9.504	-0.009	31093127	10.0000	9.96 (M2)	
M 11 Alip C9-C18				176683007	60.0000	59.7	
12 C-19	9.726	9.774	-0.048	31065095	10.0000	10.0 (M2)	
13 C-20	9.950	9.957	-0.007	31463953	10.0000	10.1 (M2)	
§ 15 Chlorooctadecane	10.165	10.217	-0.052	27917627	10.0000	10.1 (M2)	
16 C-22	10.379	10.384	-0.005	31603189	10.0000	10.1 (M2)	
18 C-24	10.792	10.796	-0.004	31828188	10.0000	10.2 (M2)	
20 C-26	11.219	11.223	-0.004	31991568	10.0000	10.2 (M2)	

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (UG/ML)	ON-COL (UG/ML)
=====	==	=====	=====	=====	=====	=====
22 C-28	11.688	11.724	-0.036	31603121	10.0000	10.1 (M2)
115 C-30	12.243	12.250	-0.007	31878310	10.0000	10.1 (AM2)
114 C-36	15.117	15.144	-0.027	30029788	10.0000	10.2 (AM2)
M 24 Alip C19-C36				251463212	80.0000	81.0

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Date : 03-NOV-2011 13:18

Client ID: 1 84-15-4

Sample Info: 1202*1 84-16-1

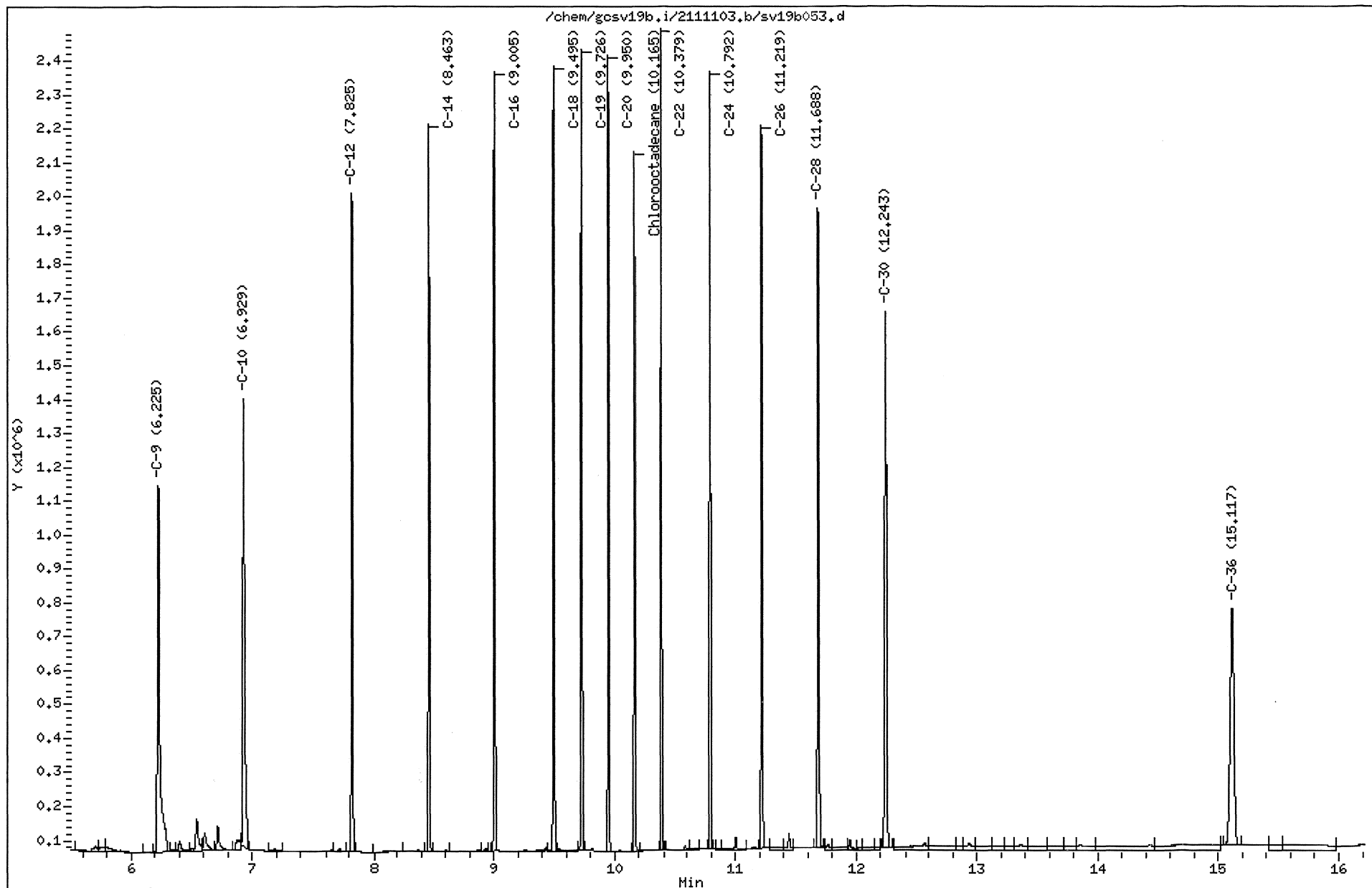
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gcsv19b,i

Operator: smh

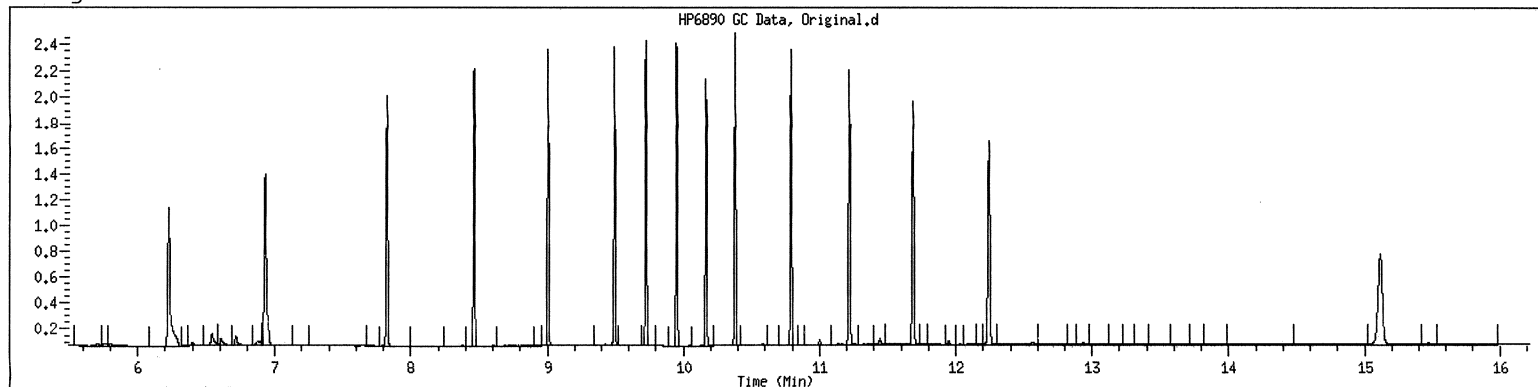
Column diameter: 0,25



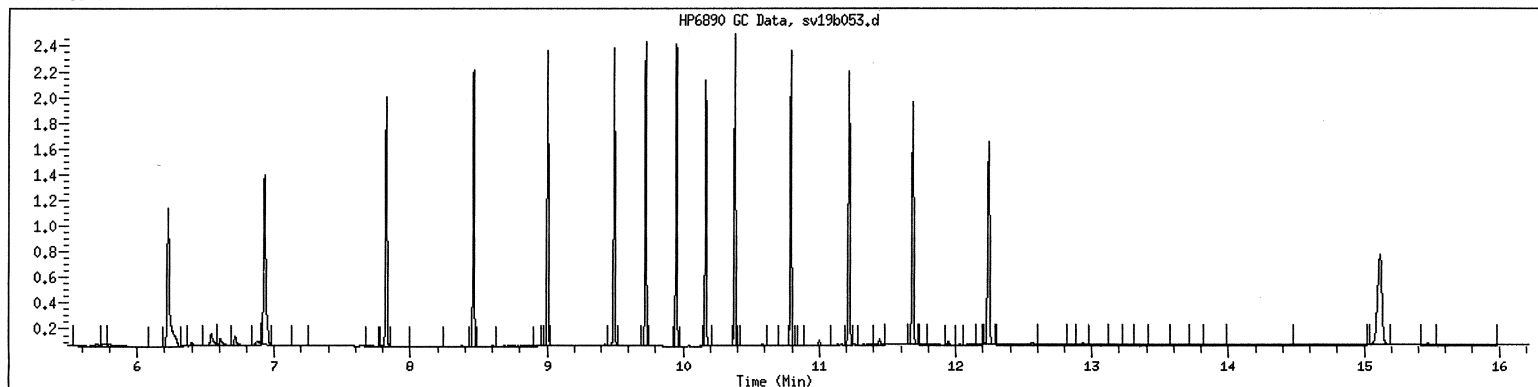
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1202 SampleType : CALIB_2
Injection Date: 11/03/2011 13:18 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1202*1 84-16-1
Misc Info :
Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111103.b/sv19b054.d
 Lab Smp Id: 1203 Client Smp ID: 1 84-15-4
 Inj Date : 03-NOV-2011 13:42
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1203*1 84-16-1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 09:16 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:42 Cal File: sv19b054.d
 Als bottle: 54 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmaseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 C-9	6.230	6.232	-0.002	133779709	50.0000	47.9
2 C-10	6.931	6.929	0.002	135883716	50.0000	48.9
4 C-12	7.828	7.833	-0.005	138223627	50.0000	48.3
6 C-14	8.466	8.471	-0.005	143117588	50.0000	48.7
8 C-16	9.008	9.014	-0.006	147808492	50.0000	48.7
10 C-18	9.497	9.504	-0.007	149338101	50.0000	48.5
M 11 Alip C9-C18				848151233	300.000	291
12 C-19	9.729	9.774	-0.045	149108539	50.0000	48.7
13 C-20	9.951	9.957	-0.006	150914449	50.0000	48.9
\$ 15 Chlorooctadecane	10.165	10.217	-0.052	136178585	50.0000	49.5
16 C-22	10.378	10.384	-0.006	152049887	50.0000	49.1
18 C-24	10.789	10.796	-0.007	154912784	50.0000	49.6
20 C-26	11.216	11.223	-0.007	156048078	50.0000	49.7

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
22 C-28	11.684	11.724	-0.040	154342550	50.0000	49.6
115 C-30	12.240	12.250	-0.010	155633447	50.0000	49.7 (A)
114 C-36	15.131	15.144	-0.013	147575152	50.0000	50.1 (A)
M 24 Alip C19-C36				1220584886	400.000	395

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Date : 03-NOV-2011 13:42

Client ID: 1 84-15-4

Instrument: gcsv19b.i

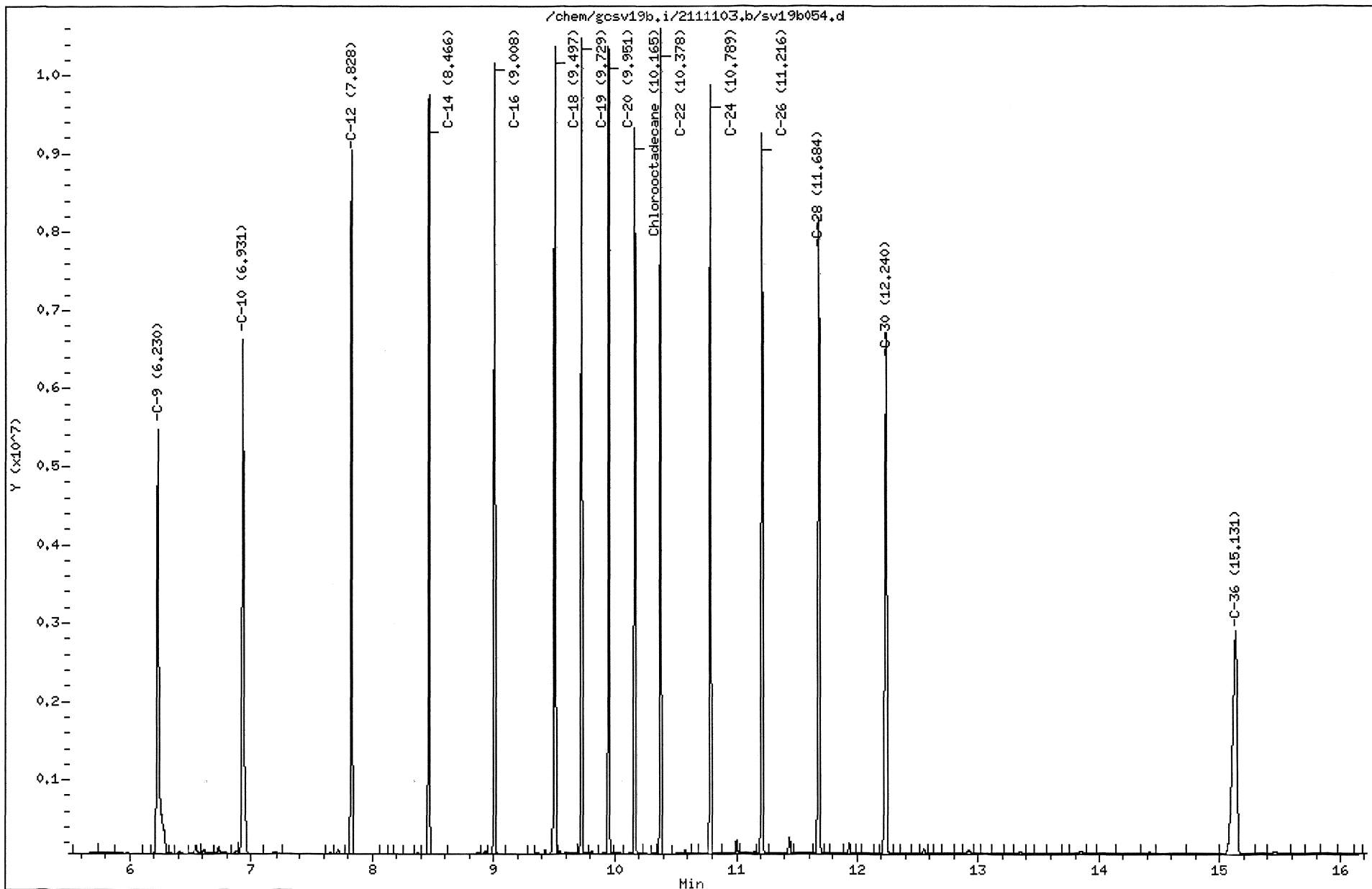
Sample Info: 1203x1 84-16-1

Volume Injected (uL): 1.0

Operator: smh

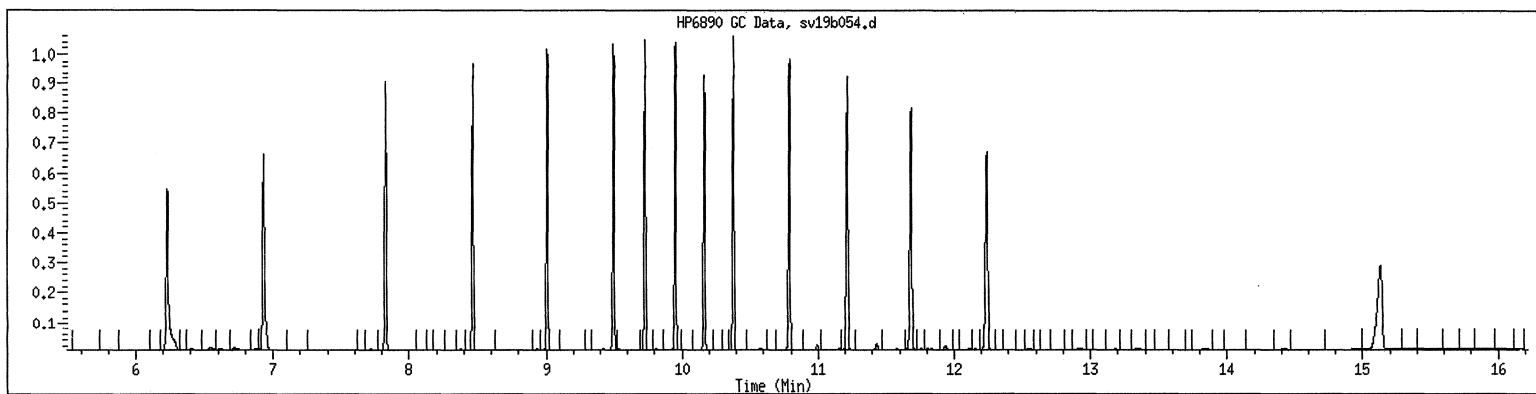
Column phase: DB-5MS-30M

Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1203 SampleType : CALIB_3
Injection Date: 11/03/2011 13:42 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1203*1 84-16-1
Misc Info :
Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111103.b/sv19b055.d
 Lab Smp Id: 1204 Client Smp ID: 1 84-15-4
 Inj Date : 03-NOV-2011 14:06
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1204*1 84-16-1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 09:16 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:06 Cal File: sv19b055.d
 Als bottle: 55 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmaseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 C-9	6.234	6.232	0.002	267905092	100.000	96.9
2 C-10	6.936	6.929	0.007	275258180	100.000	99.2
4 C-12	7.831	7.833	-0.002	277484130	100.000	97.7
6 C-14	8.469	8.471	-0.002	286298081	100.000	98.1
8 C-16	9.012	9.014	-0.002	297290630	100.000	98.4
10 C-18	9.502	9.504	-0.002	301232611	100.000	98.4
M 11 Alip C9-C18				1705468724	600.000	589
12 C-19	9.733	9.774	-0.041	301524643	100.000	98.8
13 C-20	9.957	9.957	0.000	305126115	100.000	99.1
\$ 15 Chlorooctadecane	10.172	10.217	-0.045	277140629	100.000	100
16 C-22	10.385	10.384	0.001	307318934	100.000	99.5
18 C-24	10.798	10.796	0.002	312420640	100.000	100
20 C-26	11.227	11.223	0.004	315354910	100.000	100

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
22 C-28	11.697	11.724	-0.027	312584380	100.000	100
115 C-30	12.256	12.250	0.006	315370277	100.000	100 (A)
114 C-36	15.168	15.144	0.024	296156565	100.000	100 (A)
M 24 Alip C19-C36				2465856464	800.000	799

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Date : 03-NOV-2011 14:06

Client ID: 1 84-15-4

Sample Info: 1204*1 84-16-1

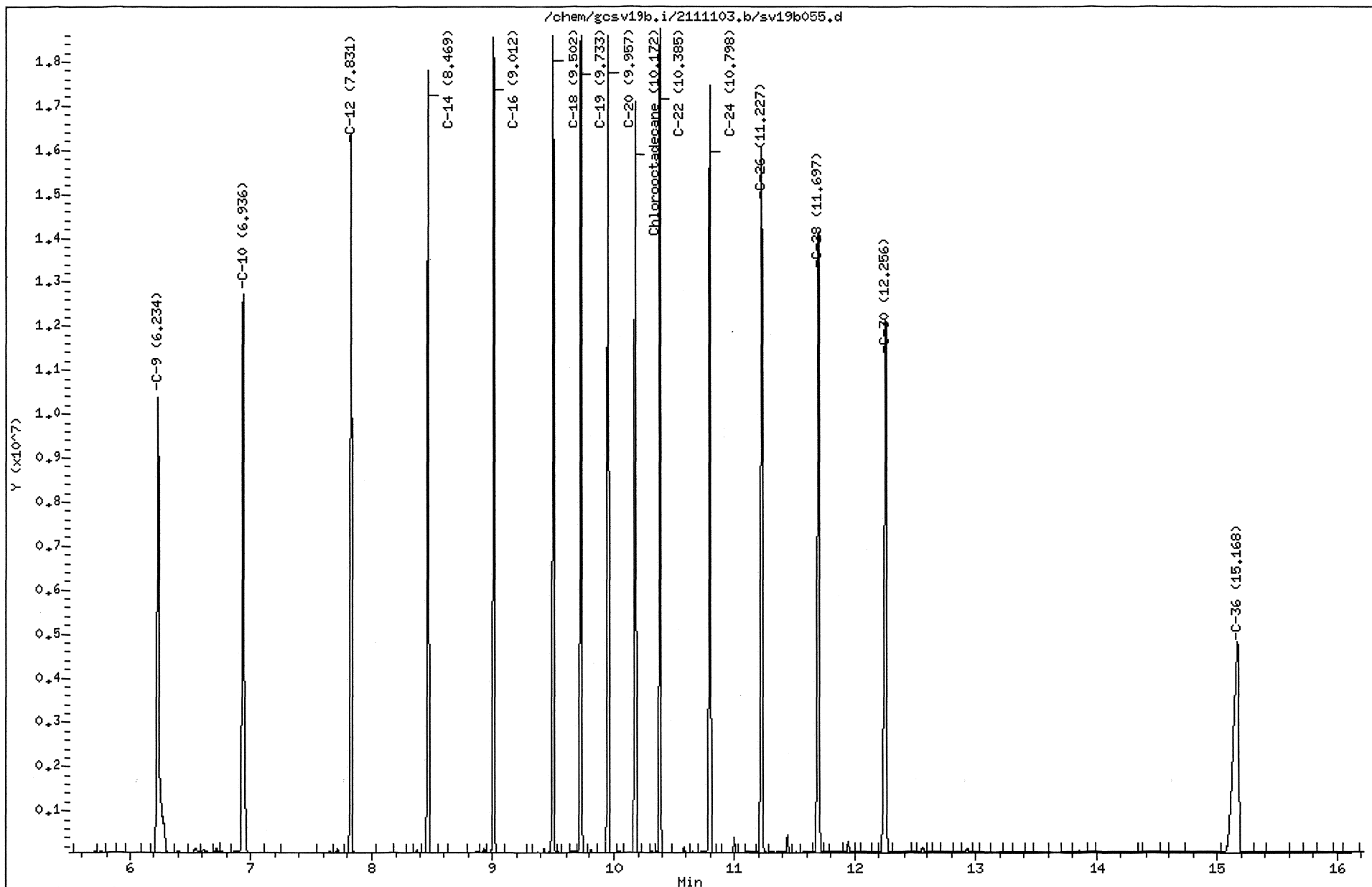
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gcsv19b.i

Operator: smh

Column diameter: 0.25

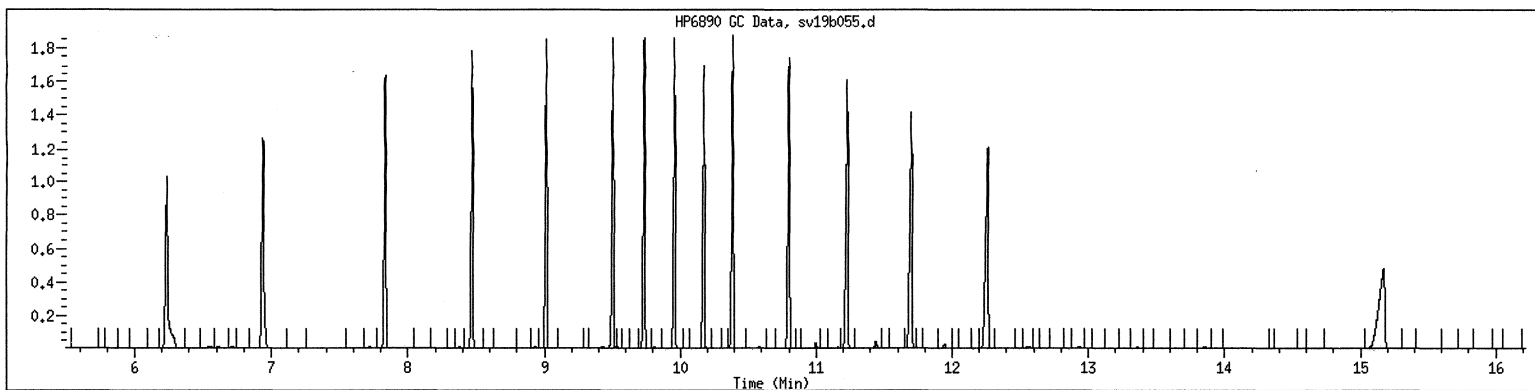


MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1204
Injection Date: 11/03/2011 14:06
Operator : smh
Sample Info : 1204*1 84-16-1
Misc Info :
Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie

SampleType : CALIB_4
Instrument : gcsv19b.i

Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111103.b/sv19b056.d
 Lab Smp Id: 1205 Client Smp ID: 1 84-15-4
 Inj Date : 03-NOV-2011 14:30
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1205*1 84-16-1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 09:16 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 56 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmaseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS						
	RT	EXP RT	DLT RT	RT	RESPONSE	CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 C-9	6.235	6.232	0.003	507851786	200.000	187	
2 C-10	6.940	6.929	0.011	520005449	200.000	190	
4 C-12	7.836	7.833	0.003	528388238	200.000	189	
6 C-14	8.473	8.471	0.002	543318717	200.000	189	
8 C-16	9.016	9.014	0.002	566851761	200.000	190	
10 C-18	9.505	9.504	0.001	573206156	200.000	190	
M 11 Alip C9-C18				3239622107	1200.00	1130	
12 C-19	9.736	9.774	-0.038	575420346	200.000	191	
13 C-20	9.959	9.957	0.002	583100339	200.000	191	
\$ 15 Chlorooctadecane	10.174	10.217	-0.043	533215722	200.000	195	
16 C-22	10.386	10.384	0.002	588506366	200.000	192	
18 C-24	10.798	10.796	0.002	599716399	200.000	194	
20 C-26	11.226	11.223	0.003	606614444	200.000	194	

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
22 C-28	11.698	11.724	-0.026	603997432	200.000	195
115 C-30	12.259	12.250	0.009	609448655	200.000	195 (A)
114 C-36	15.188	15.144	0.044	565185453	200.000	193 (A)
M 24 Alip C19-C36				4731989434	1600.00	1550

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Date : 03-NOV-2011 14:30

Client ID: 1 84-15-4

Sample Info: 1205x1 84-16-1

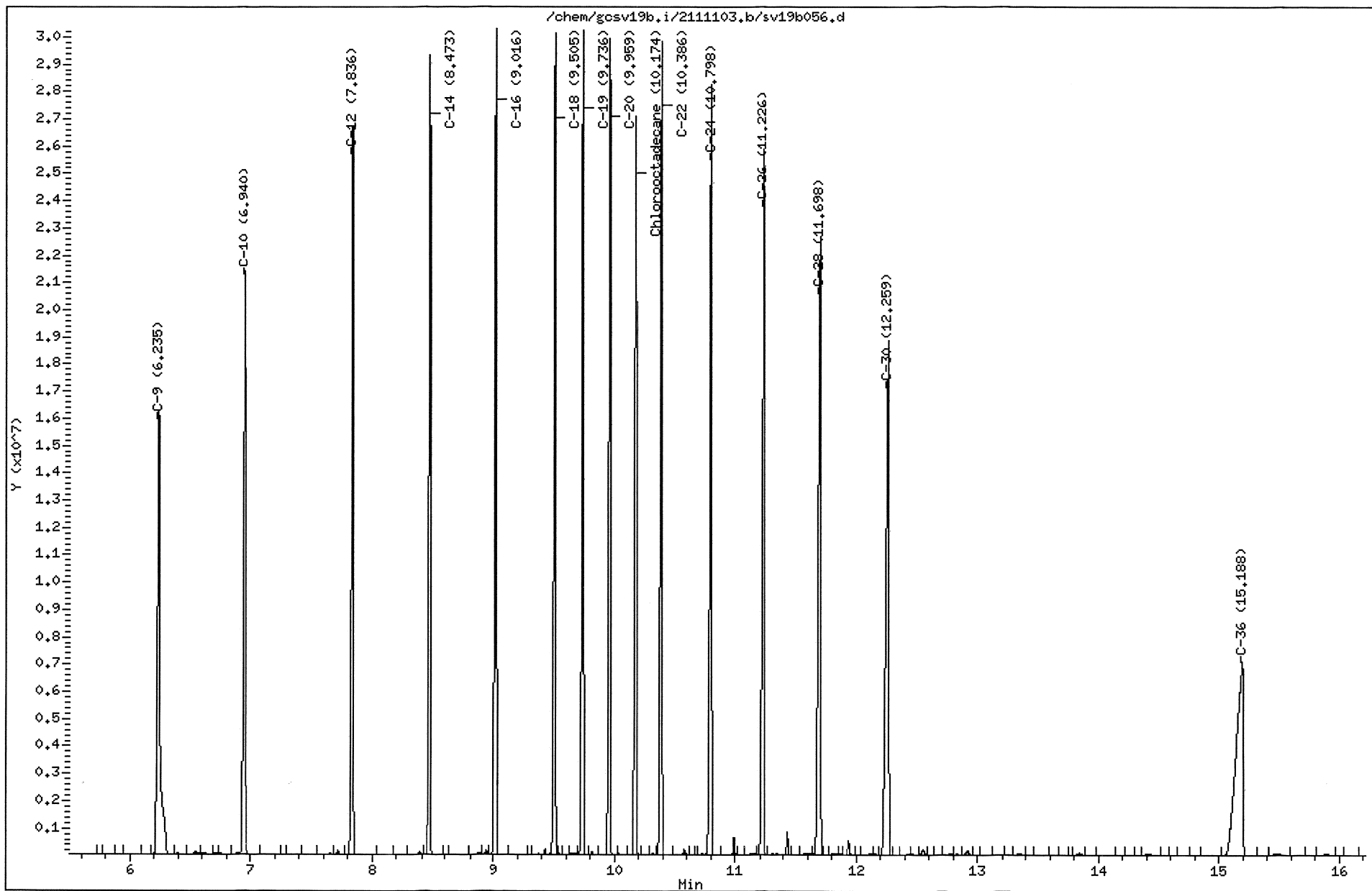
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gcsv19b.i

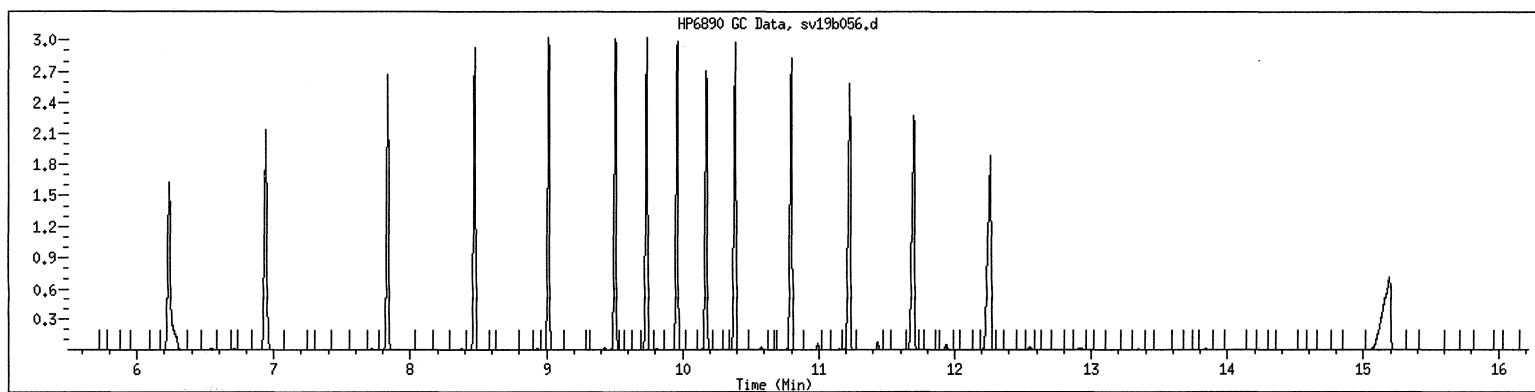
Operator: smh

Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1205 SampleType : CALIB_5
Injection Date: 11/03/2011 14:30 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1205*1 84-16-1
Misc Info :
Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

GCAL, Inc.

RECOVERY REPORT

Client Name: Client SDG: 2111103
 Sample Matrix: LIQUID Fraction: SV
 Lab Smp Id: 1600 Client Smp ID: 1 84-16-2
 Level: LOW Operator: smh
 Data Type: GC MULTI COMP SampleType: LCS
 SpikeList File: alphicv-new.spk Quant Type: ESTD
 Sublist File: ALmasseph.sub
 Method File: /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
 Misc Info:

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 C-9	50.0	46.8	93.57	75-125
2 C-10	50.0	48.1	96.14	75-125
4 C-12	50.0	47.6	95.30	75-125
6 C-14	50.0	47.2	94.33	75-125
8 C-16	50.0	47.1	94.27	75-125
10 C-18	50.0	48.3	96.60	75-125
12 C-19	50.0	49.1	98.26	75-125
13 C-20	50.0	49.1	98.17	75-125
16 C-22	50.0	49.5	98.94	75-125
18 C-24	50.0	49.0	97.98	75-125
20 C-26	50.0	49.0	97.97	75-125
22 C-28	50.0	48.7	97.32	75-125
114 C-36	50.0	50.0	100.09	75-125

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 15 Chlorooctadecane	40000	0.00	*	40-140

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111103.b/sv19b057.d
 Lab Smp Id: 1600 Client Smp ID: 1 84-16-2
 Inj Date : 03-NOV-2011 14:54
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1600*1 84-16-2
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
 Meth Date : 04-Nov-2011 09:50 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 57 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmaseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1.00000	Volume of sample extracted (mL)
Vt	1.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	CONCENTRATIONS						
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (UG/ML)	FINAL (ug/L)	
1 C-9	6.229	6.232	-0.003	127218912	46.7830	46.8	
2 C-10	6.931	6.929	0.002	131668495	48.0680	48.1	
4 C-12	7.828	7.833	-0.005	133484208	47.6481	47.6	
6 C-14	8.466	8.471	-0.005	135740381	47.1626	47.2	
8 C-16	9.008	9.014	-0.006	140615142	47.1372	47.1	
10 C-18	9.497	9.504	-0.007	145930395	48.3007	48.3	
M 11 Alip C9-C18				814657533	285.135	285	
12 C-19	9.728	9.774	-0.046	148243248	49.1321	49.1	
13 C-20	9.950	9.957	-0.007	149480953	49.0856	49.1	
16 C-22	10.377	10.384	-0.007	151407787	49.4692	49.5	
18 C-24	10.788	10.796	-0.008	151784501	48.9880	49.0	
20 C-26	11.213	11.223	-0.010	152831618	48.9831	49.0	
22 C-28	11.681	11.724	-0.043	150648000	48.6591	48.7	

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
115 C-30	12.224	12.250	-0.026	863815	0.27683	0.277 (A)
114 C-36	15.130	15.144	-0.014	146419842	50.0472	50.0 (A)
M 24 Alip C19-C36				1051679764	343.635	344

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Date : 03-NOV-2011 14:54

Client ID: 1 84-16-2

Instrument: gcsv19b.i

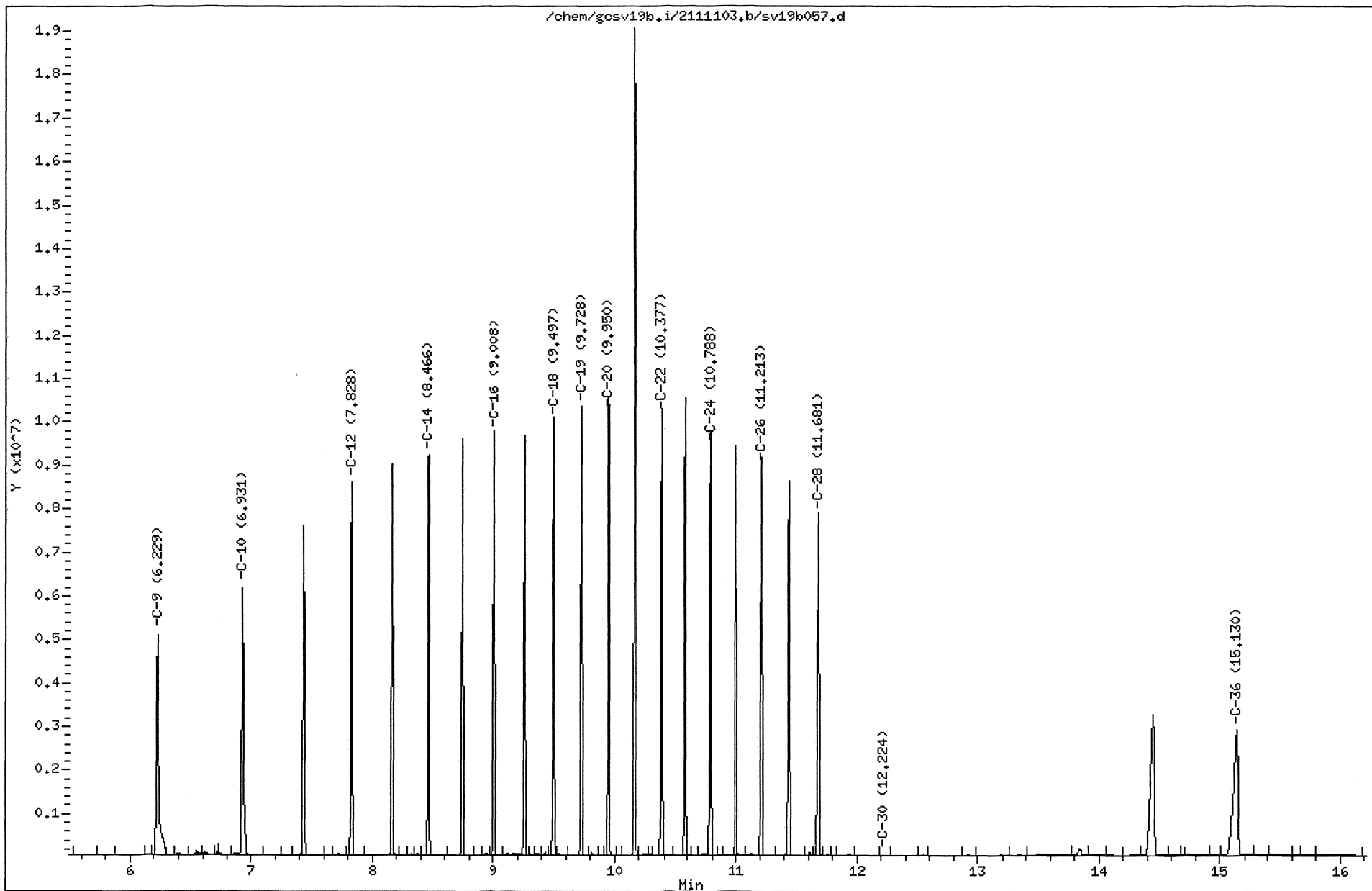
Sample Info: 1600x1 84-16-2

Volume Injected (uL): 1.0

Operator: smh

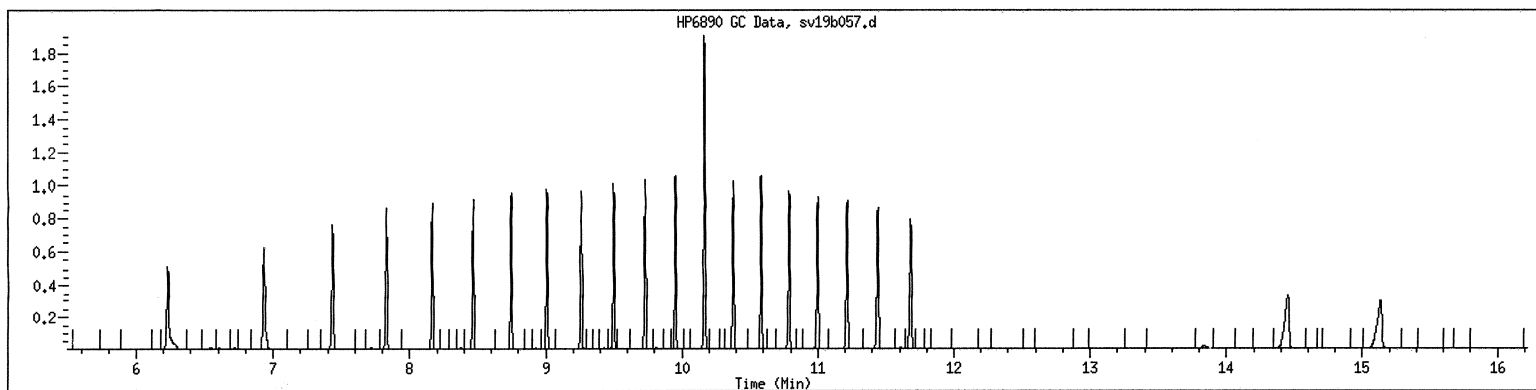
Column phase: DB-5MS-30M

Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1600 SampleType : LCS
Injection Date: 11/03/2011 14:54 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1600*1 84-16-2
Misc Info :
Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv19b.i Injection Date: 04-NOV-2011 09:12
 Lab File ID: sv19b053.d Init. Cal. Date(s): 03-NOV-2011 03-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 12:55 14:30
 Lab Sample ID: 1400 Quant Type: ESTD
 Method: /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
1 C-9	2719340	2365533	0.010	13.01075	25.00000	Averaged	
12 C-10	2739215	2446747	0.010	10.67710	25.00000	Averaged	
14 C-12	2801460	2459169	0.010	12.21829	25.00000	Averaged	
16 C-14	2878136	2530922	0.010	12.06385	25.00000	Averaged	
18 C-16	2983102	2629735	0.010	11.84563	25.00000	Averaged	
10 C-18	3021289	2649368	0.010	12.31001	25.00000	Averaged	
M 11 Alip C9-C18	2857090	2513579	0.010	12.02312	25.00000	Averaged	
12 C-19	3017239	2648833	0.010	12.21005	25.00000	Averaged	
13 C-20	3045314	2681325	0.010	11.95243	25.00000	Averaged	
15 Chlorooctadecane	2739581	2405528	0.010	12.19356	25.00000	Averaged	
16 C-22	3060647	2701322	0.010	11.74016	25.00000	Averaged	
18 C-24	3098402	2735843	0.010	11.70147	25.00000	Averaged	
20 C-26	3120089	2767306	0.010	11.30680	25.00000	Averaged	
22 C-28	3095987	2745481	0.010	11.32130	25.00000	Averaged	
115 C-30	3120341	2775943	0.010	11.03719	25.00000	Averaged	
114 C-36	2925634	2622070	0.010	10.37602	25.00000	Averaged	
M 24 Alip C19-C36	3060457	2709765	0.010	11.45879	25.00000	Averaged	

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 11.73215
 Maximun Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b053.d
 Lab Smp Id: 1400 Client Smp ID: 1 84-16-1
 Inj Date : 04-NOV-2011 09:12
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1400*1 84-16-1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 13:36 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 53 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmaseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS						
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (UG/ML)	ON-COL (UG/ML)	
1 C-9	6.227	6.232	-0.005	118276670	50.0000	43.5	
2 C-10	6.931	6.929	0.002	122337333	50.0000	44.7	
4 C-12	7.827	7.833	-0.006	122958471	50.0000	43.9	
6 C-14	8.464	8.471	-0.007	126546115	50.0000	44.0	
8 C-16	9.007	9.014	-0.007	131486727	50.0000	44.1	
10 C-18	9.496	9.504	-0.008	132468406	50.0000	43.8	
M 11 Alip C9-C18				754073722	300.000	264	
12 C-19	9.726	9.774	-0.048	132441629	50.0000	43.9	
13 C-20	9.949	9.957	-0.008	134066257	50.0000	44.0	
§ 15 Chlorooctadecane	10.164	10.216	-0.052	120276424	50.0000	43.9	
16 C-22	10.376	10.384	-0.008	135066104	50.0000	44.1	
18 C-24	10.788	10.796	-0.008	136792174	50.0000	44.1	
20 C-26	11.214	11.223	-0.009	138365315	50.0000	44.3	

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
22 C-28	11.682	11.724	-0.042	137274066	50.0000	44.3
115 C-30	12.237	12.249	-0.012	138797128	50.0000	44.5 (A)
114 C-36	15.127	15.144	-0.017	131103492	50.0000	44.8 (A)
M 24 Alip C19-C36				1083906165	400.000	354

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem/gcsv19b.i/2111104.b/sv19b053.d

Page 1

Date : 04-NOV-2011 09:12

Client ID: 1 84-16-1

Instrument: gcsv19b.i

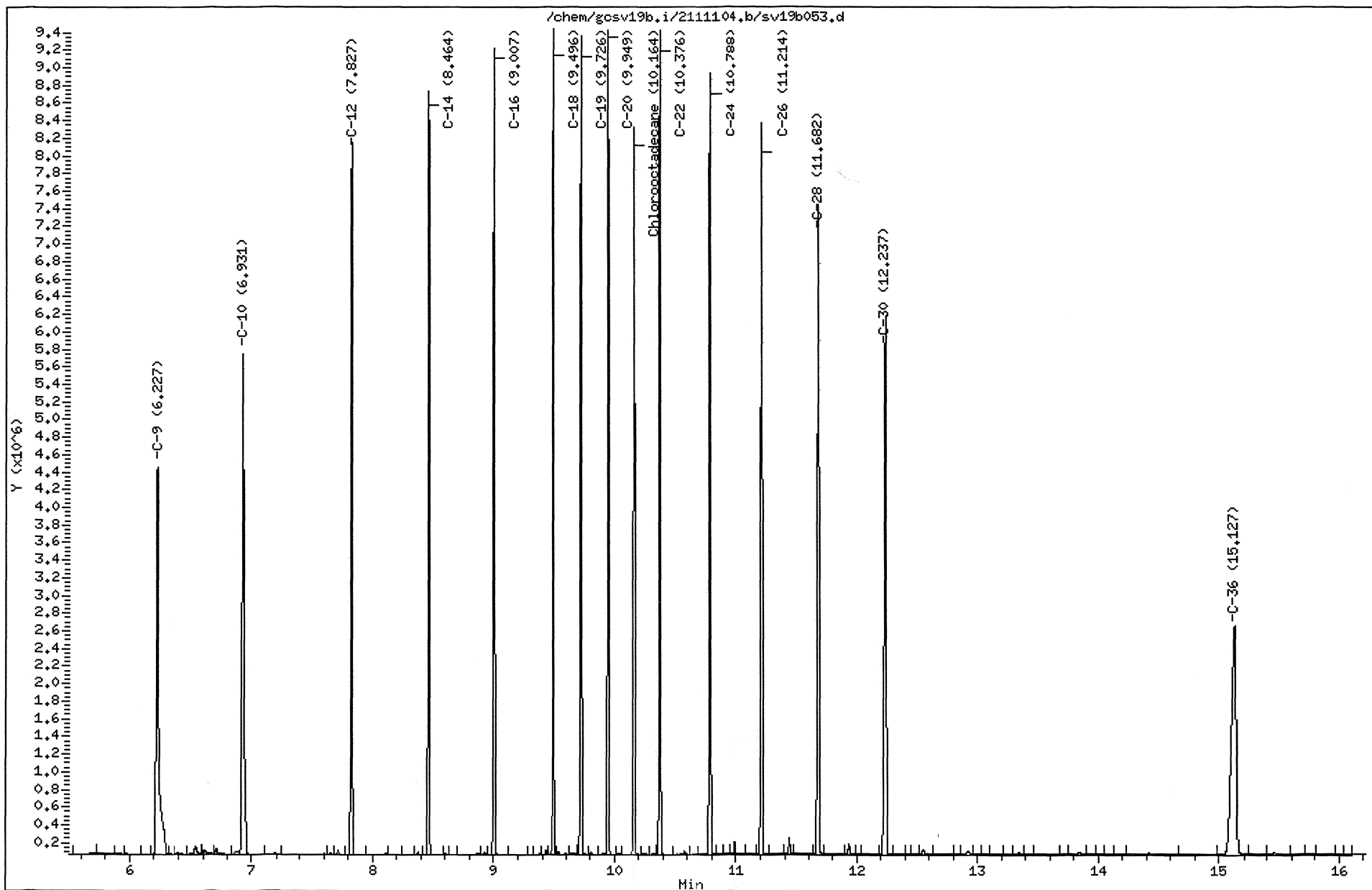
Sample Info: 1400*1 84-16-1

Volume Injected (uL): 1.0

Operator: smh

Column phase: DB-5MS-30M

Column diameter: 0.25



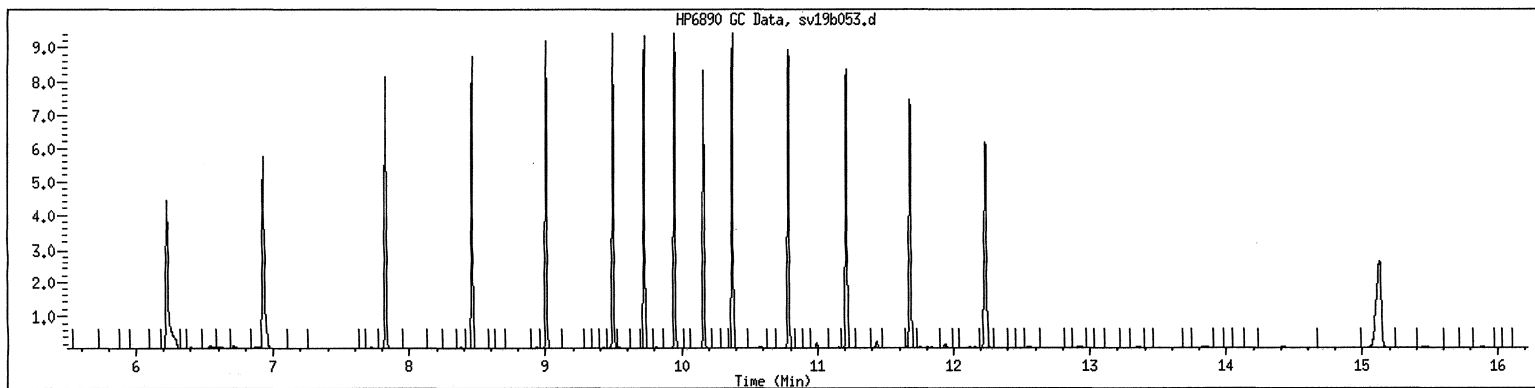
211110257 57

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1400
Injection Date: 11/04/2011 09:12
Operator : smh
Sample Info : 1400*1 84-16-1
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie

SampleType : CCALIB_3
Instrument : gcsv19b.i

Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv19b.i Injection Date: 04-NOV-2011 15:45
 Lab File ID: sv19b065.d Init. Cal. Date(s): 03-NOV-2011 03-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 12:55 14:30
 Lab Sample ID: 1400 Quant Type: ESTD
 Method: /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	MIN %D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 C-9	2719340	2613264	0.010	3.90079	25.00000	Averaged
2 C-10	2739215	2663265	0.010	2.77270	25.00000	Averaged
4 C-12	2801460	2714757	0.010	3.09493	25.00000	Averaged
6 C-14	2878136	2778305	0.010	3.46861	25.00000	Averaged
8 C-16	2983102	2885740	0.010	3.26377	25.00000	Averaged
10 C-18	3021289	2913230	0.010	3.57658	25.00000	Averaged
M 11 Alip C9-C18	2857090	2761427	0.010	3.34829	25.00000	Averaged
12 C-19	3017239	2917827	0.010	3.29479	25.00000	Averaged
13 C-20	3045314	2953584	0.010	3.01216	25.00000	Averaged
15 Chlorooctadecane	2739581	2685289	0.010	1.98177	25.00000	Averaged
16 C-22	3060647	2980997	0.010	2.60239	25.00000	Averaged
18 C-24	3098402	3027070	0.010	2.30222	25.00000	Averaged
20 C-26	3120089	3050819	0.010	2.22010	25.00000	Averaged
22 C-28	3095987	3013888	0.010	2.65180	25.00000	Averaged
115 C-30	3120341	3044490	0.010	2.43086	25.00000	Averaged
114 C-36	2925634	2871101	0.010	1.86398	25.00000	Averaged
M 24 Alip C19-C36	3060457	2982472	0.010	2.54813	25.00000	Averaged

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 2.84317
 Maximun Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b065.d
 Lab Smp Id: 1400 Client Smp ID: 1 84-16-1
 Inj Date : 04-NOV-2011 15:45
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1400*1 84-16-1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 13:57 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 65 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 C-9	6.229	6.232	-0.003	130663219	50.0000	48.0
2 C-10	6.932	6.929	0.003	133163247	50.0000	48.6
4 C-12	7.829	7.833	-0.004	135737833	50.0000	48.5
6 C-14	8.467	8.471	-0.004	138915254	50.0000	48.3
8 C-16	9.009	9.014	-0.005	144287003	50.0000	48.4
10 C-18	9.498	9.504	-0.006	145661515	50.0000	48.2
M 11 Alip C9-C18				828428071	300.000	290
12 C-19	9.729	9.774	-0.045	145891353	50.0000	48.4
13 C-20	9.952	9.957	-0.005	147679209	50.0000	48.5
§ 15 Chlorooctadecane	10.167	10.217	-0.050	134264437	50.0000	49.0
16 C-22	10.379	10.384	-0.005	149049847	50.0000	48.7
18 C-24	10.792	10.796	-0.004	151353497	50.0000	48.8
20 C-26	11.219	11.223	-0.004	152540965	50.0000	48.9

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
22 C-28	11.687	11.725	-0.038	150694405	50.0000	48.7
115 C-30	12.243	12.250	-0.007	152224481	50.0000	48.8 (A)
114 C-36	15.137	15.145	-0.008	143555045	50.0000	49.1 (A)
M 24 Alip C19-C36				1192988802	400.000	390

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Date : 04-NOV-2011 15:45

Client ID: 1 84-16-1

Sample Info: 1400*1 84-16-1

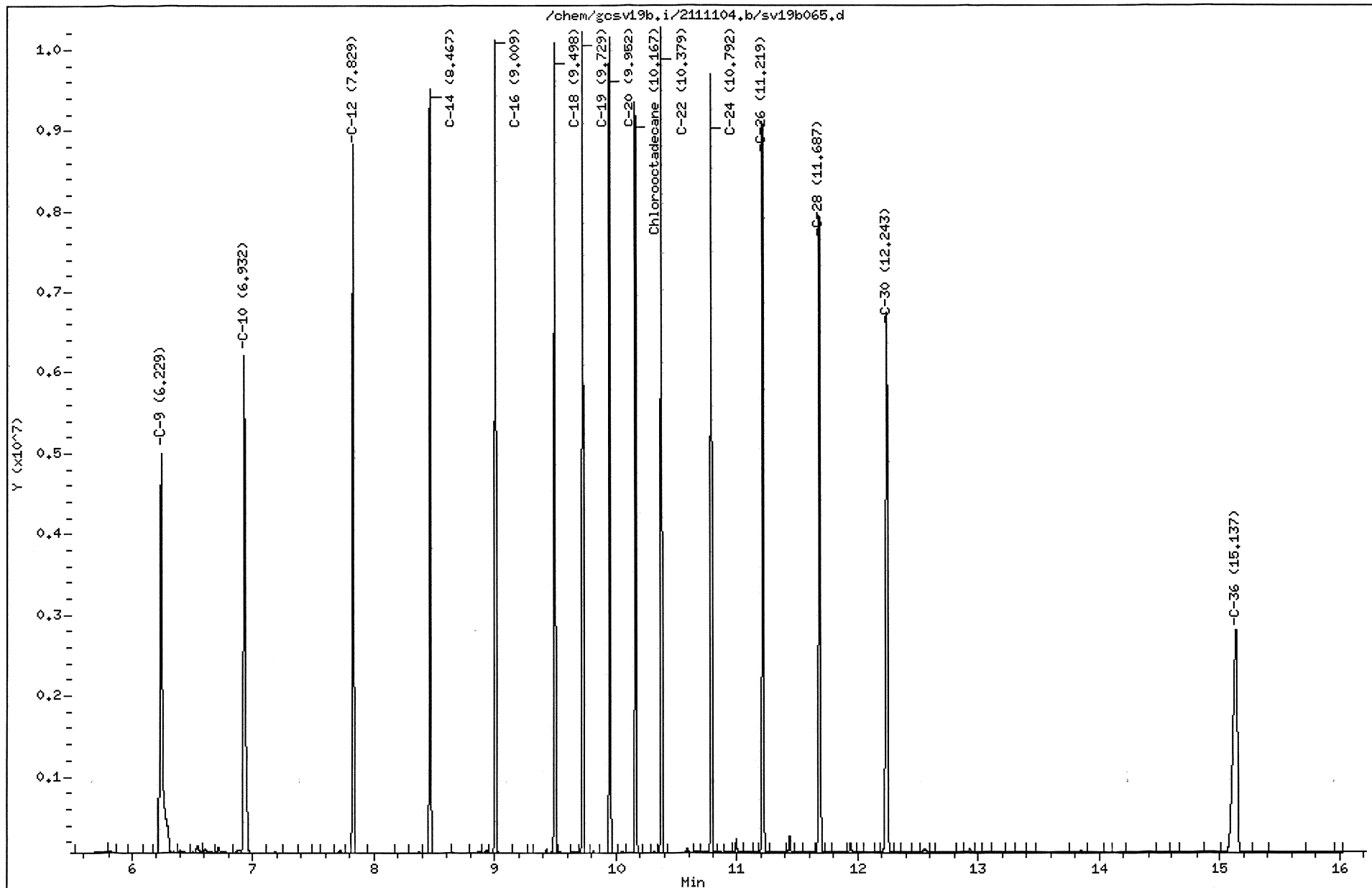
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gosv19b.i

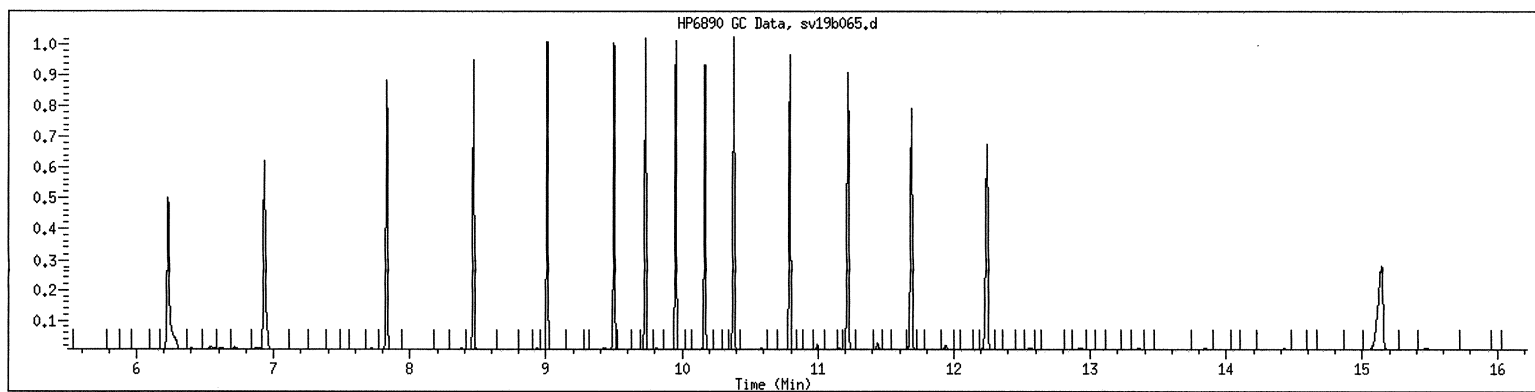
Operator: smh

Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1400 SampleType : CCALIB_3
Injection Date: 11/04/2011 15:45 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1400*1 84-16-1
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv19b.i Injection Date: 04-NOV-2011 21:26
 Lab File ID: sv19b079.d Init. Cal. Date(s): 03-NOV-2011 03-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 12:55 14:30
 Lab Sample ID: 1400 Quant Type: ESTD
 Method: /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
| 1 C-9	| 2719340|	| 2581871|	| 0.010|	| 5.05525|	| 25.00000|	| Averaged|	
| 2 C-10	| 2739215|	| 2671823|	| 0.010|	| 2.46029|	| 25.00000|	| Averaged|	
| 4 C-12	| 2801460|	| 2693394|	| 0.010|	| 3.85748|	| 25.00000|	| Averaged|	
| 6 C-14	| 2878136|	| 2768059|	| 0.010|	| 3.82460|	| 25.00000|	| Averaged|	
| 8 C-16	| 2983102|	| 2866747|	| 0.010|	| 3.90046|	| 25.00000|	| Averaged|	
| 10 C-18	| 3021289|	| 2887292|	| 0.010|	| 4.43511|	| 25.00000|	| Averaged|	
| M 11 Alip C9-C18	| 2857090|	| 2744864|	| 0.010|	| 3.92799|	| 25.00000|	| Averaged|	
| 12 C-19	| 3017239|	| 2898780|	| 0.010|	| 3.92607|	| 25.00000|	| Averaged|	
| 13 C-20	| 3045314|	| 2941955|	| 0.010|	| 3.39402|	| 25.00000|	| Averaged|	
| \$ 15 Chlorooctadecane	| 2739581|	| 2663692|	| 0.010|	| 2.77009|	| 25.00000|	| Averaged|	
| 16 C-22	| 3060647|	| 2966763|	| 0.010|	| 3.06746|	| 25.00000|	| Averaged|	
| 18 C-24	| 3098402|	| 3022447|	| 0.010|	| 2.45141|	| 25.00000|	| Averaged|	
| 20 C-26	| 3120089|	| 3056143|	| 0.010|	| 2.04949|	| 25.00000|	| Averaged|	
| 22 C-28	| 3095987|	| 3033627|	| 0.010|	| 2.01425|	| 25.00000|	| Averaged|	
| 115 C-30	| 3120341|	| 3058955|	| 0.010|	| 1.96727|	| 25.00000|	| Averaged|	
| 114 C-36	| 2925634|	| 2883428|	| 0.010|	| 1.44262|	| 25.00000|	| Averaged|	
| M 24 Alip C19-C36	| 3060457|	| 2982762|	| 0.010|	| 2.53865|	| 25.00000|	| Averaged|	

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 3.12250
 Maximun Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b079.d
 Lab Smp Id: 1400 Client Smp ID: 1 84-16-1
 Inj Date : 04-NOV-2011 21:26
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1400*1 84-16-1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 14:08 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 79 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmaseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS						
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (UG/ML)	ON-COL (UG/ML)	
1 C-9	6.229	6.232	-0.003	129093531	50.0000	47.5	
2 C-10	6.932	6.929	0.003	133591133	50.0000	48.8	
4 C-12	7.828	7.833	-0.005	134669711	50.0000	48.1	
6 C-14	8.466	8.471	-0.005	138402964	50.0000	48.1	
8 C-16	9.008	9.014	-0.006	143337352	50.0000	48.0	
10 C-18	9.497	9.504	-0.007	144364588	50.0000	47.8	
M 11 Alip C9-C18				823459279	300.000	288	
12 C-19	9.727	9.774	-0.047	144939003	50.0000	48.0	
13 C-20	9.950	9.957	-0.007	147097767	50.0000	48.3	
\$ 15 Chlorooctadecane	10.164	10.216	-0.052	133184608	50.0000	48.6	
16 C-22	10.376	10.384	-0.008	148338149	50.0000	48.5	
18 C-24	10.787	10.796	-0.009	151122368	50.0000	48.8	
20 C-26	11.212	11.223	-0.011	152807139	50.0000	49.0	

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
-----	==	-----	-----	-----	-----	-----
22 C-28	11.680	11.724	-0.044	151681326	50.0000	49.0
115 C-30	12.236	12.249	-0.013	152947749	50.0000	49.0(A)
114 C-36	15.127	15.144	-0.017	144171415	50.0000	49.3(A)
M 24 Alip C19-C36				1193104916	400.000	390

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Date : 04-NOV-2011 21:26

Client ID: 1 84-16-1

Sample Info: 1400*1 84-16-1

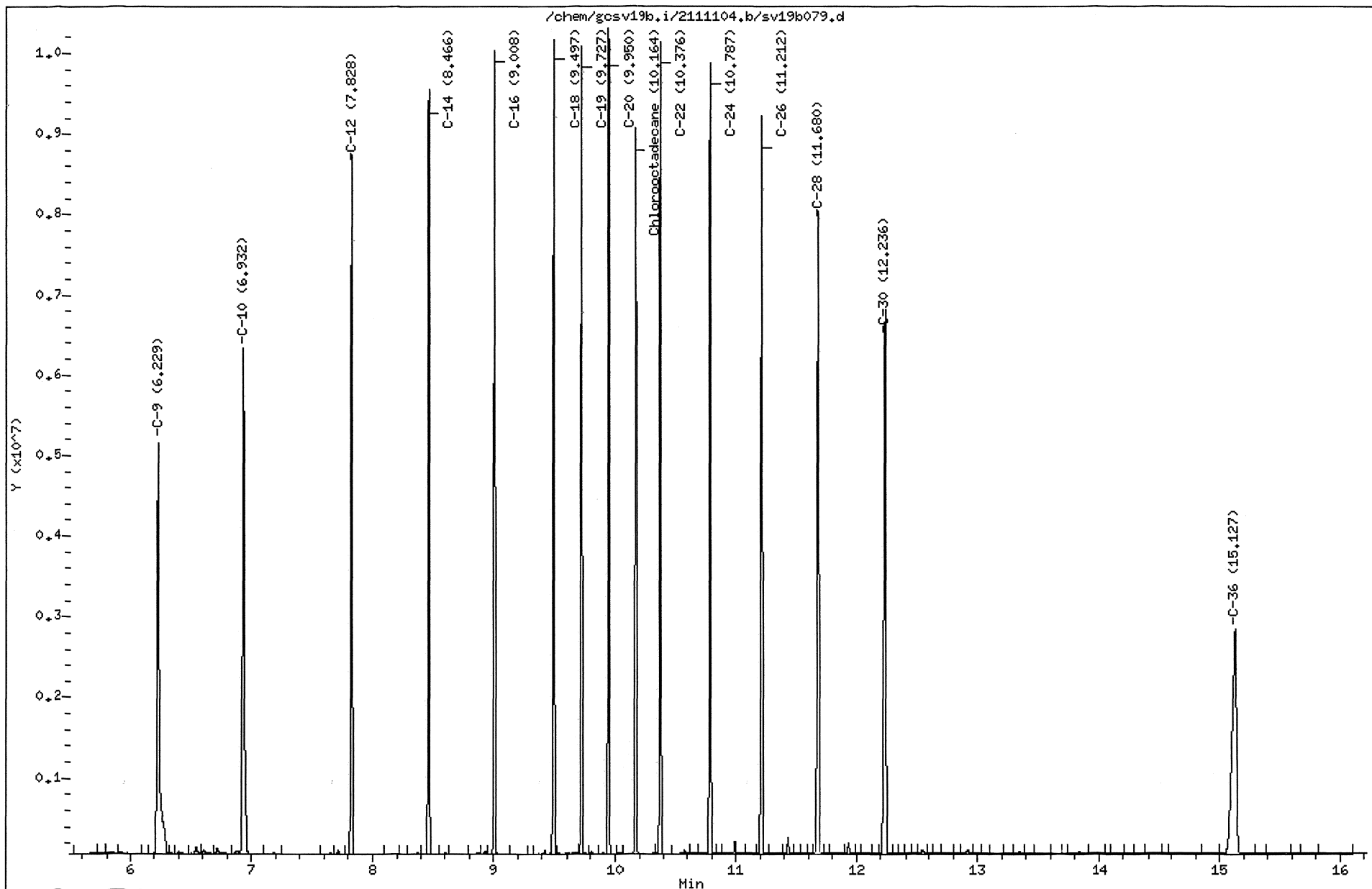
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gcsv19b.i

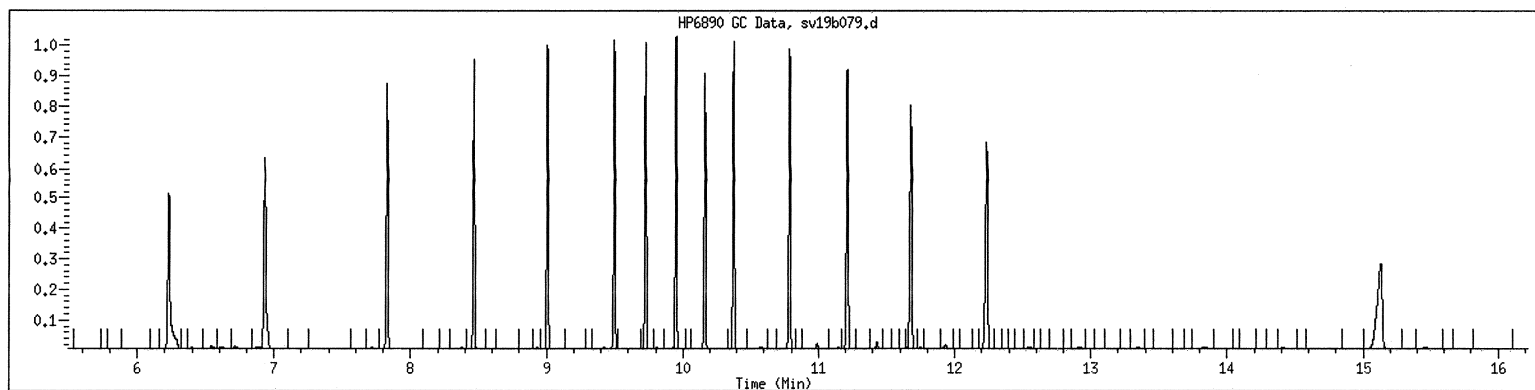
Operator: smh

Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1400 SampleType : CCALIB_3
Injection Date: 11/04/2011 21:26 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1400*1 84-16-1
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv19b.i Injection Date: 05-NOV-2011 03:02
 Lab File ID: sv19b093.d Init. Cal. Date(s): 03-NOV-2011 03-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 12:55 14:30
 Lab Sample ID: 1400 Quant Type: ESTD
 Method: /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	MAX %D / %DRIFT	CURVE TYPE
1 C-9	2719340	2616131	0.010	3.79539	Averaged
2 C-10	2739215	2716041	0.010	0.84602	Averaged
4 C-12	2801460	2716423	0.010	3.03546	Averaged
6 C-14	2878136	2821352	0.010	1.97296	Averaged
8 C-16	2983102	2907881	0.010	2.52156	Averaged
10 C-18	3021289	2904878	0.010	3.85304	Averaged
M 11 Alip C9-C18	2857090	2780451	0.010	2.68243	Averaged
12 C-19	3017239	2935895	0.010	2.69596	Averaged
13 C-20	3045314	2979512	0.010	2.16075	Averaged
\$ 15 Chlorooctadecane	2739581	2716202	0.010	0.85337	Averaged
16 C-22	3060647	3010552	0.010	1.63675	Averaged
18 C-24	3098402	3063989	0.010	1.11067	Averaged
20 C-26	3120089	3103619	0.010	0.52787	Averaged
22 C-28	3095987	3079135	0.010	0.54432	Averaged
115 C-30	3120341	3122619	0.010	-0.07300	Averaged
114 C-36	2925634	2922347	0.010	0.11236	Averaged
M 24 Alip C19-C36	3060457	3027208	0.010	1.08638	Averaged

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 1.73578
 Maximun Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b093.d
 Lab Smp Id: 1400 Client Smp ID: 1 84-16-1
 Inj Date : 05-NOV-2011 03:02
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1400*1 84-16-1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 14:38 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 93 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmaseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 C-9	6.230	6.232	-0.002	130806531	50.0000	48.1
2 C-10	6.932	6.929	0.003	135802053	50.0000	49.6
4 C-12	7.828	7.833	-0.005	135821148	50.0000	48.5
6 C-14	8.466	8.471	-0.005	141067591	50.0000	49.0
8 C-16	9.007	9.014	-0.007	145394050	50.0000	48.7
10 C-18	9.494	9.503	-0.009	145243882	50.0000	48.1
M 11 Alip C9-C18				834135255	300.000	292
12 C-19	9.723	9.774	-0.051	146794765	50.0000	48.7
13 C-20	9.944	9.956	-0.012	148975619	50.0000	48.9
\$ 15 Chlorooctadecane	10.156	10.216	-0.060	135810111	50.0000	49.6
16 C-22	10.365	10.383	-0.018	150527592	50.0000	49.2
18 C-24	10.772	10.794	-0.022	153199445	50.0000	49.4
20 C-26	11.194	11.221	-0.027	155180931	50.0000	49.7

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
22 C-28	11.658	11.722	-0.064	153956764	50.0000	49.7
115 C-30	12.211	12.247	-0.036	156130930	50.0000	50.0 (A)
114 C-36	15.099	15.141	-0.042	146117347	50.0000	49.9 (A)
M 24 Alip C19-C36				1210883393	400.000	396

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem/gcsv19b.i/2111104.b/sv19b093.d

Page 1

Date : 05-NOV-2011 03:02

Client ID: 1 84-16-1

Instrument: gcsv19b.i

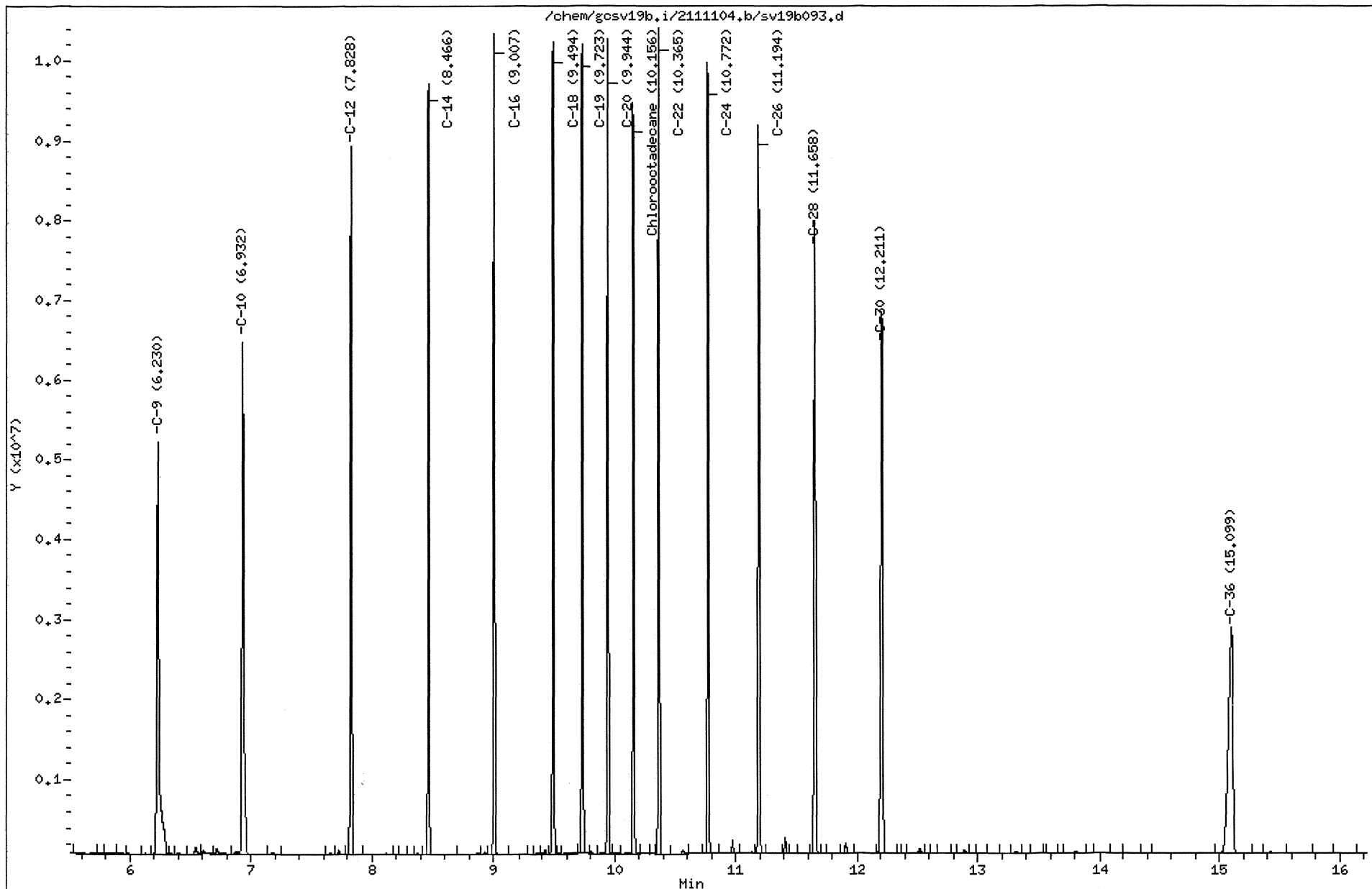
Sample Info: 1400x1 84-16-1

Volume Injected (uL): 1.0

Operator: smh

Column phase: DB-5MS-30M

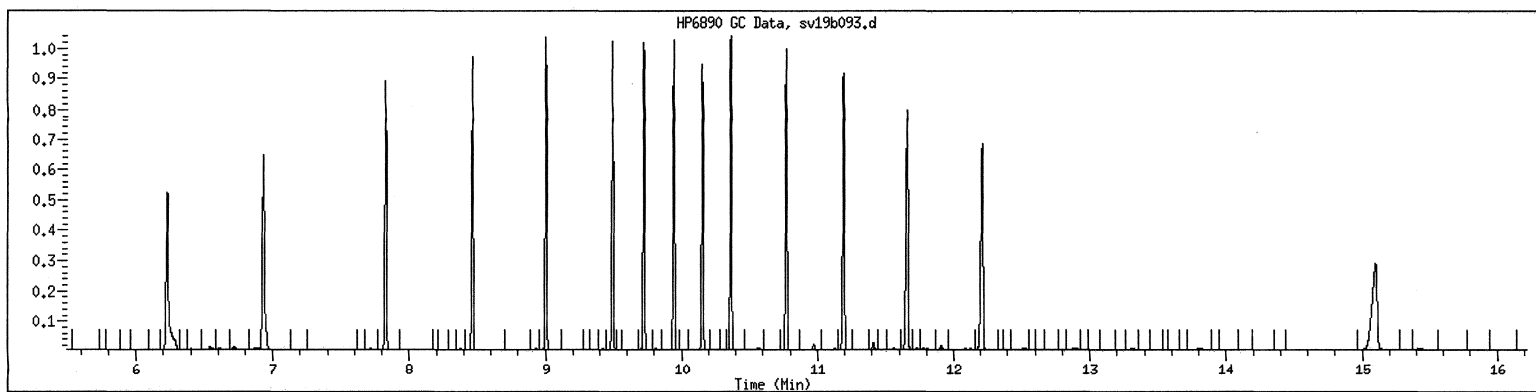
Column diameter: 0.25



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1400 SampleType : CCALIB_3
Injection Date: 11/05/2011 03:02 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1400*1 84-16-1
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv19b.i Injection Date: 10-NOV-2011 14:37
 Lab File ID: sv19b053.d Init. Cal. Date(s): 03-NOV-2011 03-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 12:55 14:30
 Lab Sample ID: 1400 Quant Type: ESTD
 Method: /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D	%DRIFT	
1 C-9	2719340	2612883	0.010	3.91480	25.00000	Averaged	
2 C-10	2739215	2651076	0.010	3.21768	25.00000	Averaged	
4 C-12	2801460	2732444	0.010	2.46357	25.00000	Averaged	
6 C-14	2878136	2764141	0.010	3.96074	25.00000	Averaged	
8 C-16	2983102	2843571	0.010	4.67737	25.00000	Averaged	
10 C-18	3021289	2807220	0.010	7.08537	25.00000	Averaged	
M 11 Alip C9-C18	2857090	2735223	0.010	4.26546	25.00000	Averaged	
12 C-19	3017239	2816034	0.010	6.66852	25.00000	Averaged	
13 C-20	3045314	2850436	0.010	6.39926	25.00000	Averaged	
\$ 15 Chlorooctadecane	2739581	2573613	0.010	6.05816	25.00000	Averaged	
16 C-22	3060647	2856542	0.010	6.66869	25.00000	Averaged	
18 C-24	3098402	2897387	0.010	6.48770	25.00000	Averaged	
20 C-26	3120089	2923933	0.010	6.28687	25.00000	Averaged	
22 C-28	3095987	2886973	0.010	6.75113	25.00000	Averaged	
115 C-30	3120341	2928603	0.010	6.14475	25.00000	Averaged	
114 C-36	2925634	2594512	0.010	11.31796	25.00000	Averaged	
M 24 Alip C19-C36	3060457	2844302	0.010	7.06281	25.00000	Averaged	

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 5.36355
 Maximun Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111110.b/sv19b053.d
 Lab Smp Id: 1400 Client Smp ID: 1 84-15-4
 Inj Date : 10-NOV-2011 14:37
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1400*1 84-15-4
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
 Meth Date : 11-Nov-2011 15:05 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 53 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS						
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (UG/ML)	ON-COL (UG/ML)	
1 C-9	6.227	6.232	-0.005	130644166	50.0000	48.0	
2 C-10	6.927	6.928	-0.001	132553801	50.0000	48.4	
4 C-12	7.824	7.832	-0.008	136622203	50.0000	48.8	
6 C-14	8.463	8.470	-0.007	138207049	50.0000	48.0	
8 C-16	9.005	9.013	-0.008	142178545	50.0000	47.7	
10 C-18	9.496	9.503	-0.007	140360985	50.0000	46.5	
M 11 Alip C9-C18				820566751	300.000	287	
12 C-19	9.726	9.773	-0.047	140801679	50.0000	46.7	
13 C-20	9.949	9.956	-0.007	142521816	50.0000	46.8	
§ 15 Chlorooctadecane	10.163	10.215	-0.052	128680639	50.0000	47.0	
16 C-22	10.376	10.382	-0.006	142827089	50.0000	46.7	
18 C-24	10.787	10.794	-0.007	144869340	50.0000	46.8	
20 C-26	11.214	11.220	-0.006	146196632	50.0000	46.9	
22 C-28	11.682	11.721	-0.039	144348659	50.0000	46.6	

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (UG/ML)	ON-COL (UG/ML)
=====	==	=====	=====	=====	=====	=====
115 C-30	12.239	12.246	-0.007	146430165	50.0000	46.9 (A)
114 C-36	15.133	15.140	-0.007	129725597	50.0000	44.3 (A)
M 24 Alip C19-C36				1137720980	400.000	372

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem/gcsv19b.i/2111110.b/sv19b053.d

Page 1

Date: 10-NOV-2011 14:37

Client ID: 1 84-15-4

Instrument: gcsv19b.i

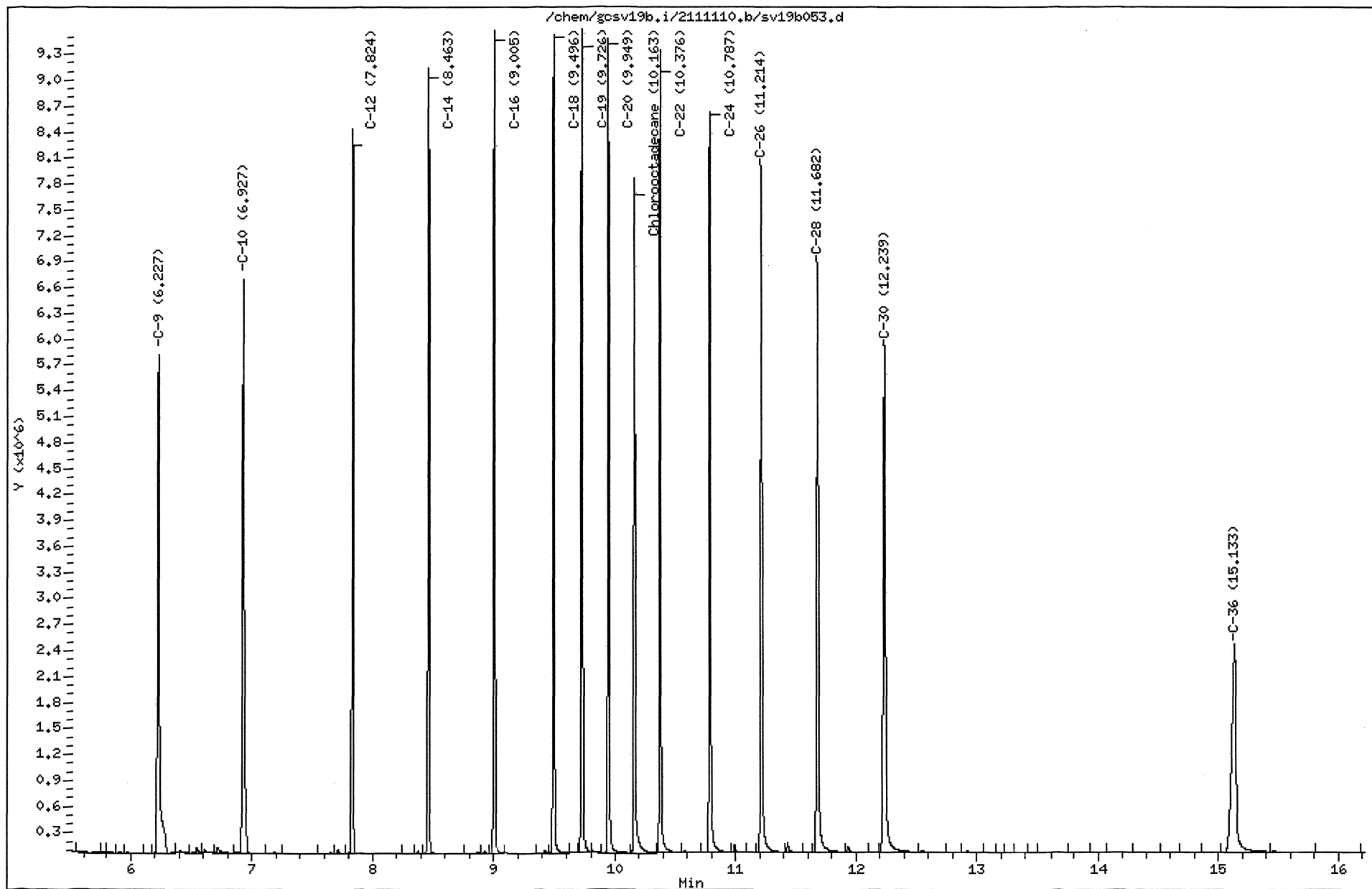
Sample Info: 1400x1 84-15-4

Volume Injected (uL): 1.0

Operator: smh

Column phase: DB-5MS-30M

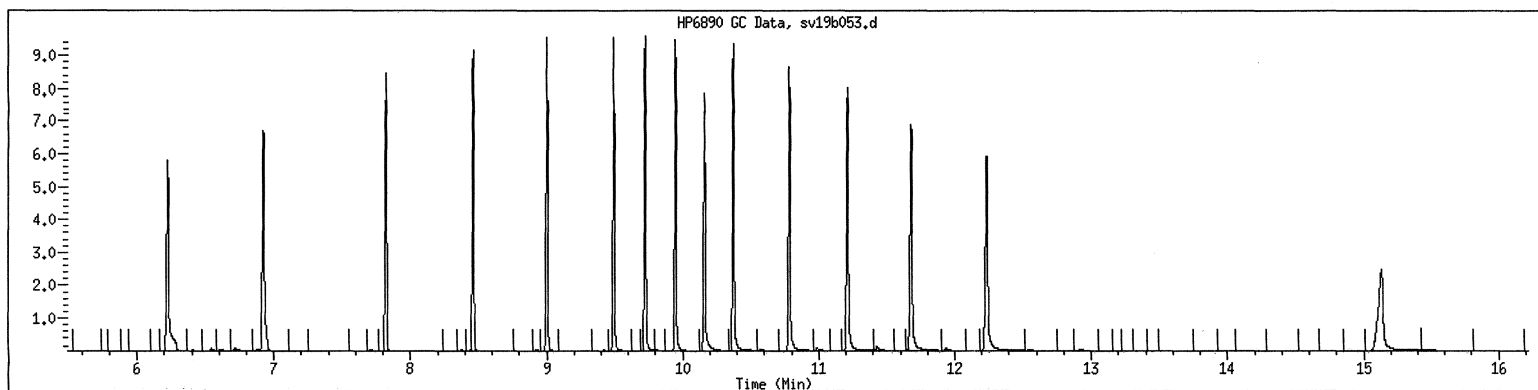
Column diameter: 0.25



211110257 77

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1400 SampleType : CCALIB_3
Injection Date: 11/10/2011 14:37 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1400*1 84-15-4
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv19b.i Injection Date: 10-NOV-2011 19:40
 Lab File ID: sv19b065.d Init. Cal. Date(s): 03-NOV-2011 03-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 12:55 14:30
 Lab Sample ID: 1400 Quant Type: ESTD
 Method: /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	MIN %D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 C-9	2719340	2659888	0.010	2.18628	25.00000	Averaged
2 C-10	2739215	2728622	0.010	0.38674	25.00000	Averaged
4 C-12	2801460	2758261	0.010	1.54200	25.00000	Averaged
6 C-14	2878136	2797478	0.010	2.80247	25.00000	Averaged
8 C-16	2983102	2910072	0.010	2.44812	25.00000	Averaged
10 C-18	3021289	2857548	0.010	5.41959	25.00000	Averaged
M 11 Alip C9-C18	2857090	2785311	0.010	2.51232	25.00000	Averaged
12 C-19	3017239	2893348	0.010	4.10609	25.00000	Averaged
13 C-20	3045314	2906107	0.010	4.57119	25.00000	Averaged
\$ 15 Chlorooctadecane	2739581	2653375	0.010	3.14669	25.00000	Averaged
16 C-22	3060647	2937725	0.010	4.01622	25.00000	Averaged
18 C-24	3098402	2950236	0.010	4.78202	25.00000	Averaged
20 C-26	3120089	2991129	0.010	4.13320	25.00000	Averaged
22 C-28	3095987	2998965	0.010	3.13383	25.00000	Averaged
115 C-30	3120341	2959574	0.010	5.15223	25.00000	Averaged
114 C-36	2925634	2744376	0.010	6.19551	25.00000	Averaged
M 24 Alip C19-C36	3060457	2922682	0.010	4.50175	25.00000	Averaged

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 3.59037
 Maximun Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111110.b/sv19b065.d
 Lab Smp Id: 1400 Client Smp ID: 1 84-15-4
 Inj Date : 10-NOV-2011 19:40
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1400*1 84-15-4
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
 Meth Date : 17-Nov-2011 12:26 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 65 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmaseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS						
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (UG/ML)	ON-COL (UG/ML)	
1 C-9	6.227	6.232	-0.005	132994388	50.0000	48.9	
2 C-10	6.927	6.928	-0.001	136431081	50.0000	49.8	
4 C-12	7.824	7.832	-0.008	137913072	50.0000	49.2	
6 C-14	8.463	8.471	-0.008	139873879	50.0000	48.6	
8 C-16	9.005	9.013	-0.008	145503588	50.0000	48.8	
10 C-18	9.495	9.503	-0.008	142877380	50.0000	47.3	
M 11 Alip C9-C18				835593388	300.000	293	
12 C-19	9.724	9.774	-0.050	144667418	50.0000	47.9	
13 C-20	9.947	9.957	-0.010	145305352	50.0000	47.7	
\$ 15 Chlorooctadecane	10.161	10.216	-0.055	132668745	50.0000	48.4	
16 C-22	10.372	10.383	-0.011	146886232	50.0000	48.0	
18 C-24	10.783	10.795	-0.012	147511784	50.0000	47.6	
20 C-26	11.209	11.222	-0.013	149556451	50.0000	47.9	

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
22 C-28	11.676	11.723	-0.047	149948227	50.0000	48.4
115 C-30	12.231	12.249	-0.018	147978676	50.0000	47.4 (A)
114 C-36	15.122	15.143	-0.021	137218811	50.0000	46.9
M 24 Alip C19-C36				1169072951	400.000	382

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Date : 10-NOV-2011 19:40

Client ID: 1 84-15-4

Sample Info: 1400*1 84-15-4

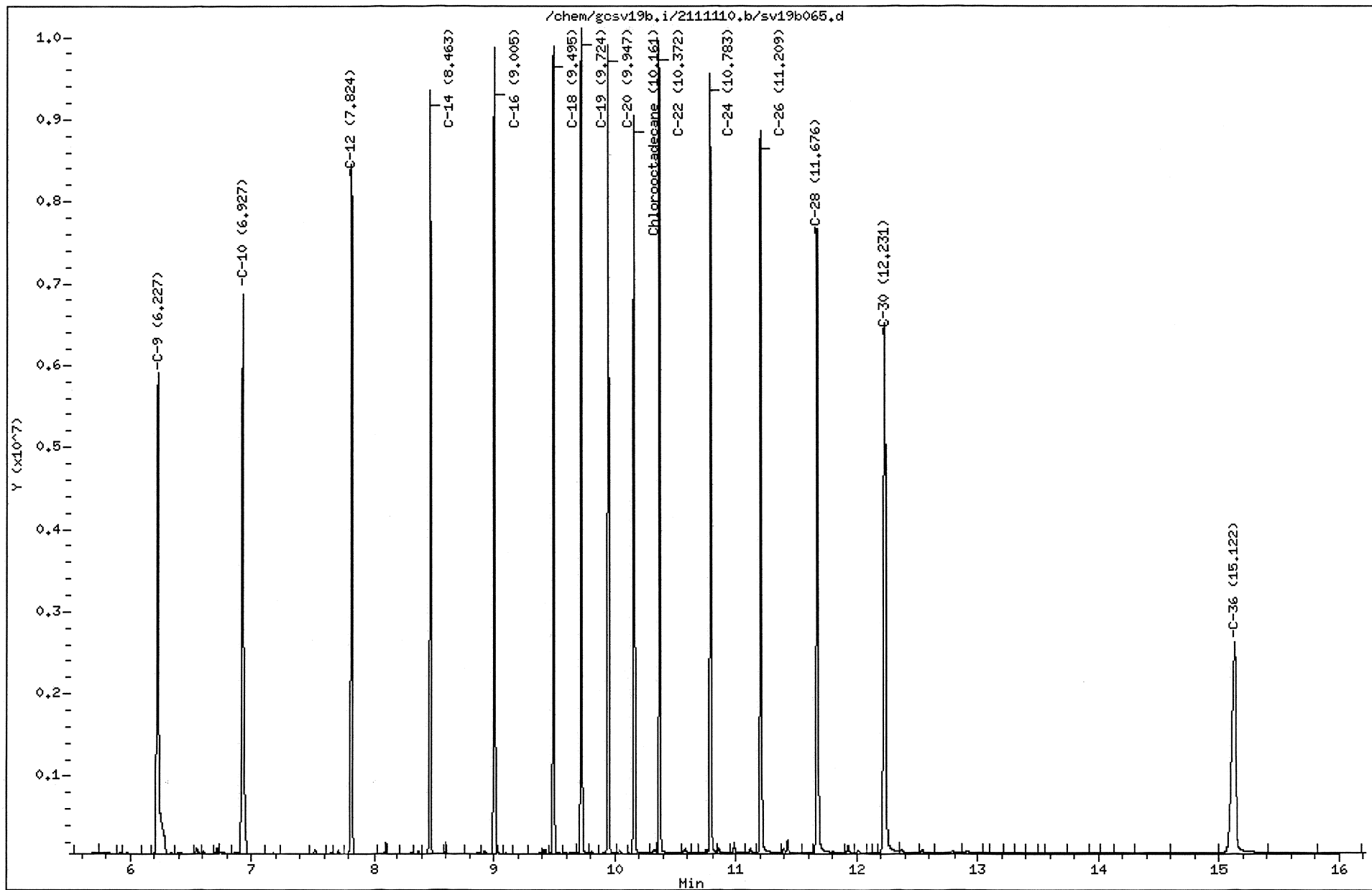
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gosv19b.i

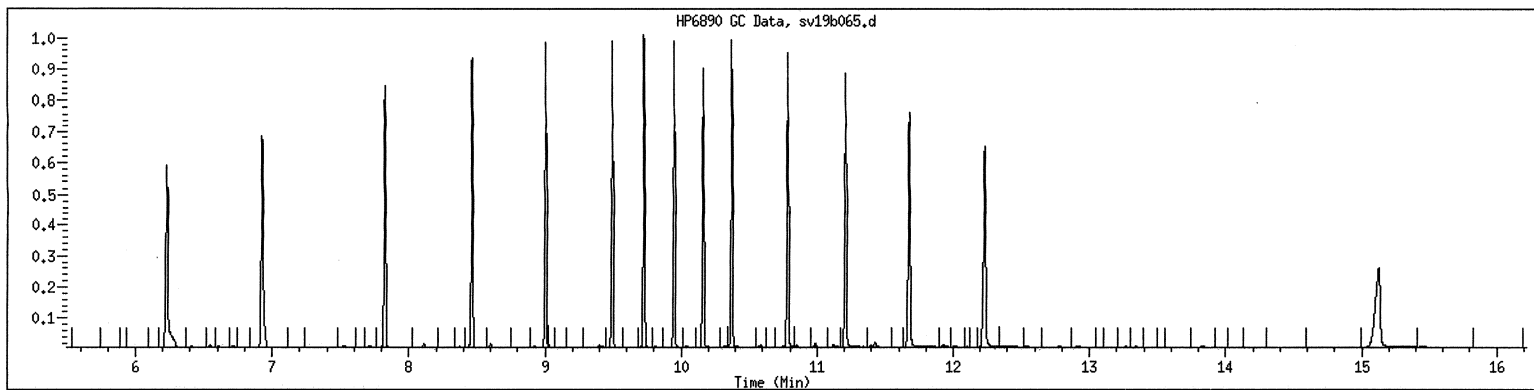
Operator: smh

Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1400 SampleType : CCALIB_3
Injection Date: 11/10/2011 19:40 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1400*1 84-15-4
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-NOV-2011 15:55
 End Cal Date : 03-NOV-2011 14:30
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m
 Cal Date : 08-Nov-2011 14:38 smh
 Curve Type : Average

Calibration File Names:

Level 1: /var/chem/gcsv19b.i/2111103.b/sv19b052s.d
 Level 2: /var/chem/gcsv19b.i/2111103.b/sv19b053s.d
 Level 3: /var/chem/gcsv19b.i/2111103.b/sv19b054s.d
 Level 4: /var/chem/gcsv19b.i/2111103.b/sv19b055s.d
 Level 5: /var/chem/gcsv19b.i/2111103.b/sv19b056s.d

Compound	1.000	10.000	50.000	100.000	200.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
1 Naphthalene	2871371	2880452	2795766	2859339	2803867	2842159	1.389
2 2-Methylnaphthalene	2390073	2394998	2345540	2406153	2358179	2378988	1.086
4 Acenaphthylene	2742978	2787580	2735871	2801782	2748122	2763267	1.065
6 Acenaphthene	2939138	2974500	2797376	2847632	2992117	2910153	2.892
7 Fluorene	2698627	2763527	2759247	2833327	2801195	2771184	1.825
8 Phenanthrene	2595622	2723658	2778901	2849934	2855307	2760684	3.879
9 Anthracene	2513243	2630537	2655916	2746767	2723523	2653997	3.464
12 Fluoranthene	2615148	2778457	2865217	2923634	2923247	2821141	4.592
13 Pyrene	2622128	2808614	2905331	2966543	2974785	2855480	5.126
14 Benzo(a)Anthracene	2463921	2659230	2834632	2942403	2985058	2777049	7.762
15 Chrysene	2577178	2691296	2772251	2844436	2855699	2748172	4.223
16 Benzo(b)Fluoranthene	2542088	2741276	2869331	2969808	2944332	2813367	6.247
17 Benzo(k)Fluoranthene	2542088	2741276	2869331	2969808	2944332	2813367	6.247
18 Benzo(a)Pyrene	2459311	2662945	2905156	2960554	2875461	2772685	7.515
19 Indo(1,2,3cd)Pyrene	2354342	2617747	2836757	2866551	2719863	2679052	7.715
20 Dibenzo(a,h)Anthracene	2354342	2617747	2836757	2866551	2719863	2679052	7.715
21 Benzo(g,h,i)Perylene	2487409	2704307	2942094	3003707	2752450	2777993	7.386
M 22 Arom C11-C22	2574648	2716361	2794440	2862290	2822200	2753988	4.124
23 Unadjusted Arom C11-C22	++++	++++	++++	++++	++++	++++	++++
M 113 Total Surrogate Area	++++	++++	++++	++++	++++	++++	++++
\$ 3 2-Fluorobiphenyl	2473008	2477779	2421128	2479969	2435554	2457488	1.107

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-NOV-2011 15:55
End Cal Date : 03-NOV-2011 14:30
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m
Cal Date : 08-Nov-2011 14:38 smh
Curve Type : Average

Compound	1.000	10.000	50.000	100.000	200.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5		
\$ 5 2-Bromonaphthalene	1570168	1562462	1600777	1661330	1449154	1568778	4.932
\$ 10 O-Terphenyl	2900971	2972915	2936779	2979088	2954226	2948796	1.067
\$ 11 Chloro-octadecane	2731973	2792662	2730816	2775185	2666865	2739500	1.780

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111102.b/sv19b052.d
 Lab Smp Id: 1201 Client Smp ID: 1 84-12-8
 Inj Date : 02-NOV-2011 15:55
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1201*1 84-12-8
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111102.b/AROEPHmass.m
 Meth Date : 08-Nov-2011 08:35 dlb Quant Type: ESTD
 Cal Date : 02-NOV-2011 15:55 Cal File: sv19b052.d
 Als bottle: 52 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 Naphthalene	7.877	7.878	-0.001	2871371	1.00000	1.00 (M2)
2 2-Methylnaphthalene	8.263	8.261	0.002	2390073	1.00000	1.00 (M2)
\$ 3 2-Fluorobiphenyl	8.450	8.450	0.000	2473008	1.00000	1.00 (M2)
4 Acenaphthylene	8.761	8.760	0.001	2742978	1.00000	1.00 (M2)
\$ 5 2-Bromonaphthalene	8.833	8.832	0.001	1570168	1.00000	1.00 (M2)
6 Acenaphthene	8.851	8.850	0.001	2939138	1.00000	1.00 (M2)
7 Fluorene	9.126	9.128	-0.002	2698627	1.00000	1.00 (M2)
8 Phenanthrene	9.653	9.652	0.001	2595622	1.00000	1.00 (M2)
9 Anthracene	9.681	9.680	0.001	2513243	1.00000	1.00 (M2)
\$ 10 O-Terphenyl	9.818	9.819	-0.001	2900971	1.00000	1.00 (M2)
12 Fluoranthene	10.323	10.322	0.001	2615148	1.00000	1.00 (M2)
13 Pyrene	10.463	10.461	0.002	2622128	1.00000	1.00 (M2)
14 Benzo(a)Anthracene	11.206	11.208	-0.002	2463921	1.00000	1.00 (M2)

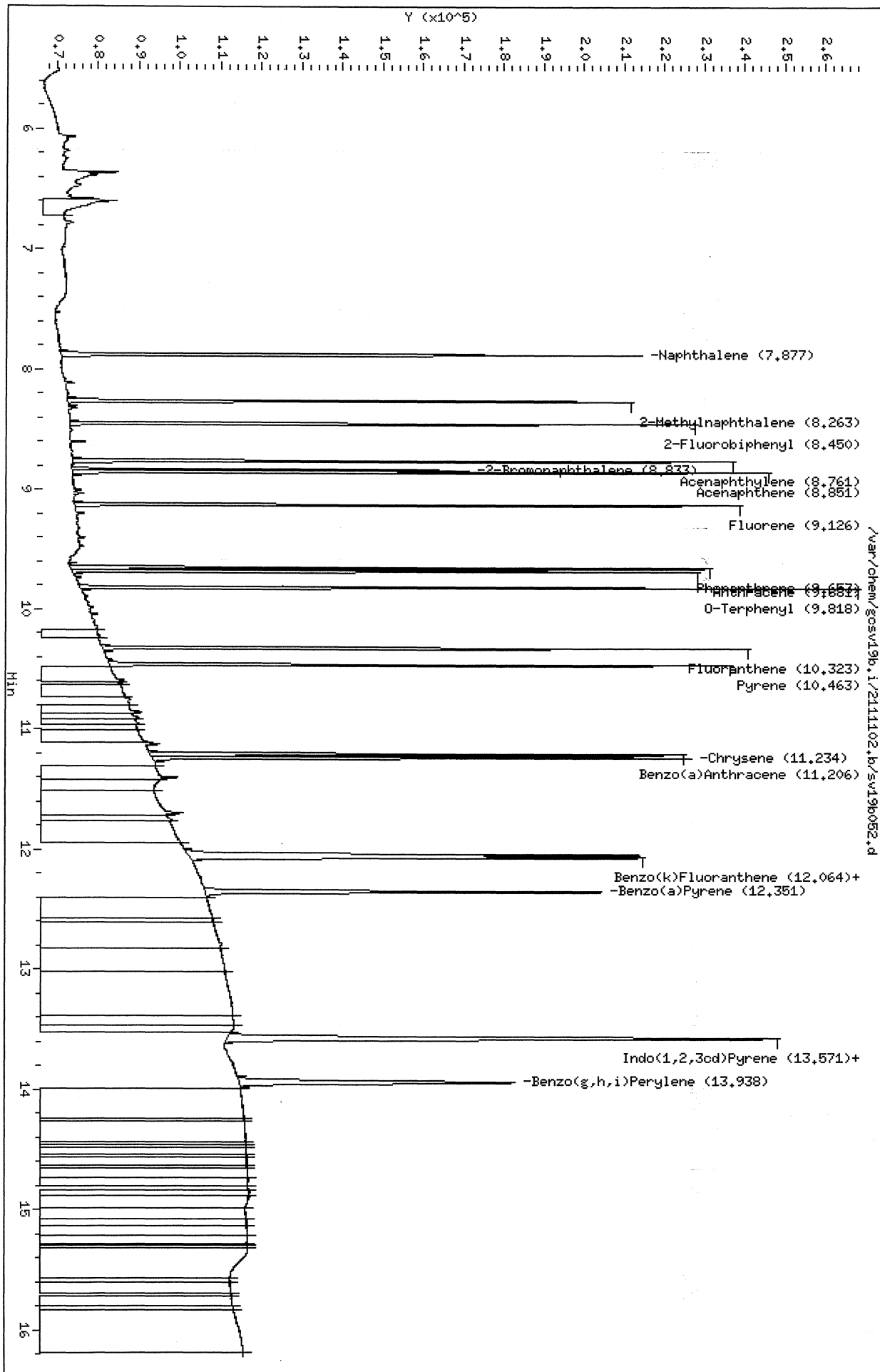
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
15 Chrysene	11.234	11.232	0.002	2577178	1.00000	1.00 (M2)
16 Benzo(b)Fluoranthene	12.064	12.062	0.002	5084176	2.00000	2.00 (M2)
17 Benzo(k)Fluoranthene	12.064	12.062	0.002	5084176	2.00000	2.00 (M2)
18 Benzo(a)Pyrene	12.351	12.350	0.001	2459311	1.00000	1.00 (M2)
19 Indo(1,2,3cd)Pyrene	13.571	13.570	0.001	4708685	2.00000	2.00 (M2)
20 Dibenzo(a,h)Anthracene	13.571	13.570	0.001	4708685	2.00000	2.00 (M2)
21 Benzo(g,h,i)Perylene	13.938	13.939	-0.001	2487409	1.00000	1.00 (M2)
M 22 Arom C11-C22				43769008	17.0000	17.0
M 113 Total Surrogate Area				6944147	0.00000	(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M2- Compound response manually integrated because Target system integrated incorrectly.

Data File: /var/chem/gcsw19b.i/2111102.b/sw19b052.d
 Date: 02-NOV-2011 15:55
 Client ID: 1 84-12-8
 Sample Info: 1201x1 84-12-8
 Volume Injected (µL): 1.0
 Column Phase: DB-SMS-30H

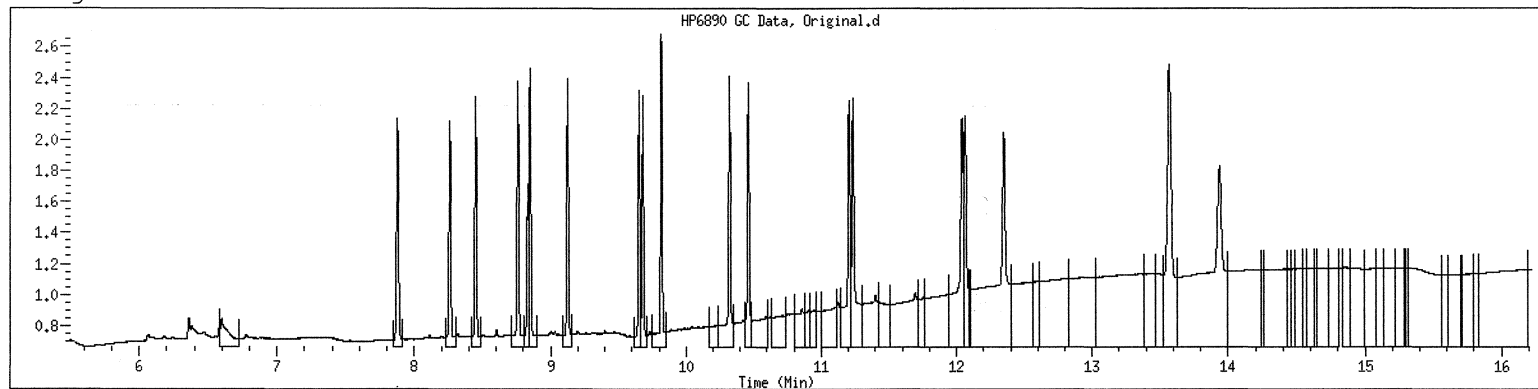
Instrument: gcsw19b.i
 Operator: smh
 Column diameter: 0.25



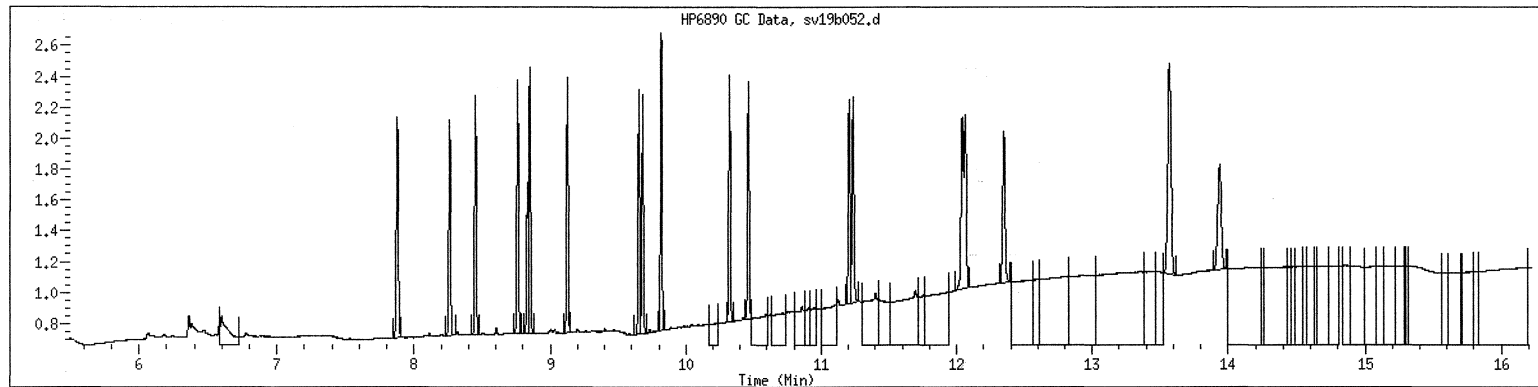
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1201 SampleType : CALIB_1
Injection Date: 11/02/2011 15:55 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1201*1 84-12-8
Misc Info :
Method : /var/chem/gcsv19b.i/2111102.b/AROEPhmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111102.b/sv19b053.d
 Lab Smp Id: 1202 Client Smp ID: 1 84-12-8
 Inj Date : 02-NOV-2011 16:19
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1202*1 84-12-8
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111102.b/AROEPHmass.m
 Meth Date : 08-Nov-2011 08:35 dlb Quant Type: ESTD
 Cal Date : 02-NOV-2011 16:19 Cal File: sv19b053.d
 Als bottle: 53 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 Naphthalene	7.876	7.878	-0.002	28804515	10.0000	10.0 (M2)
2 2-Methylnaphthalene	8.262	8.261	0.001	23949975	10.0000	10.0 (M2)
\$ 3 2-Fluorobiphenyl	8.450	8.450	0.000	24777794	10.0000	10.0 (M2)
4 Acenaphthylene	8.761	8.761	0.000	27875803	10.0000	10.1 (M2)
\$ 5 2-Bromonaphthalene	8.835	8.832	0.003	15624622	10.0000	9.98 (M2)
6 Acenaphthene	8.852	8.851	0.001	29745005	10.0000	10.1 (M2)
7 Fluorene	9.126	9.128	-0.002	27635268	10.0000	10.1 (M2)
8 Phenanthrene	9.654	9.652	0.002	27236585	10.0000	10.2 (M2)
9 Anthracene	9.682	9.681	0.001	26305372	10.0000	10.2 (M2)
\$ 10 O-Terphenyl	9.818	9.819	-0.001	29729146	10.0000	10.1 (M2)
12 Fluoranthene	10.324	10.322	0.002	27784568	10.0000	10.3 (M2)
13 Pyrene	10.463	10.461	0.002	28086137	10.0000	10.3 (M2)
14 Benzo(a)Anthracene	11.206	11.208	-0.002	26592300	10.0000	10.4 (M2)

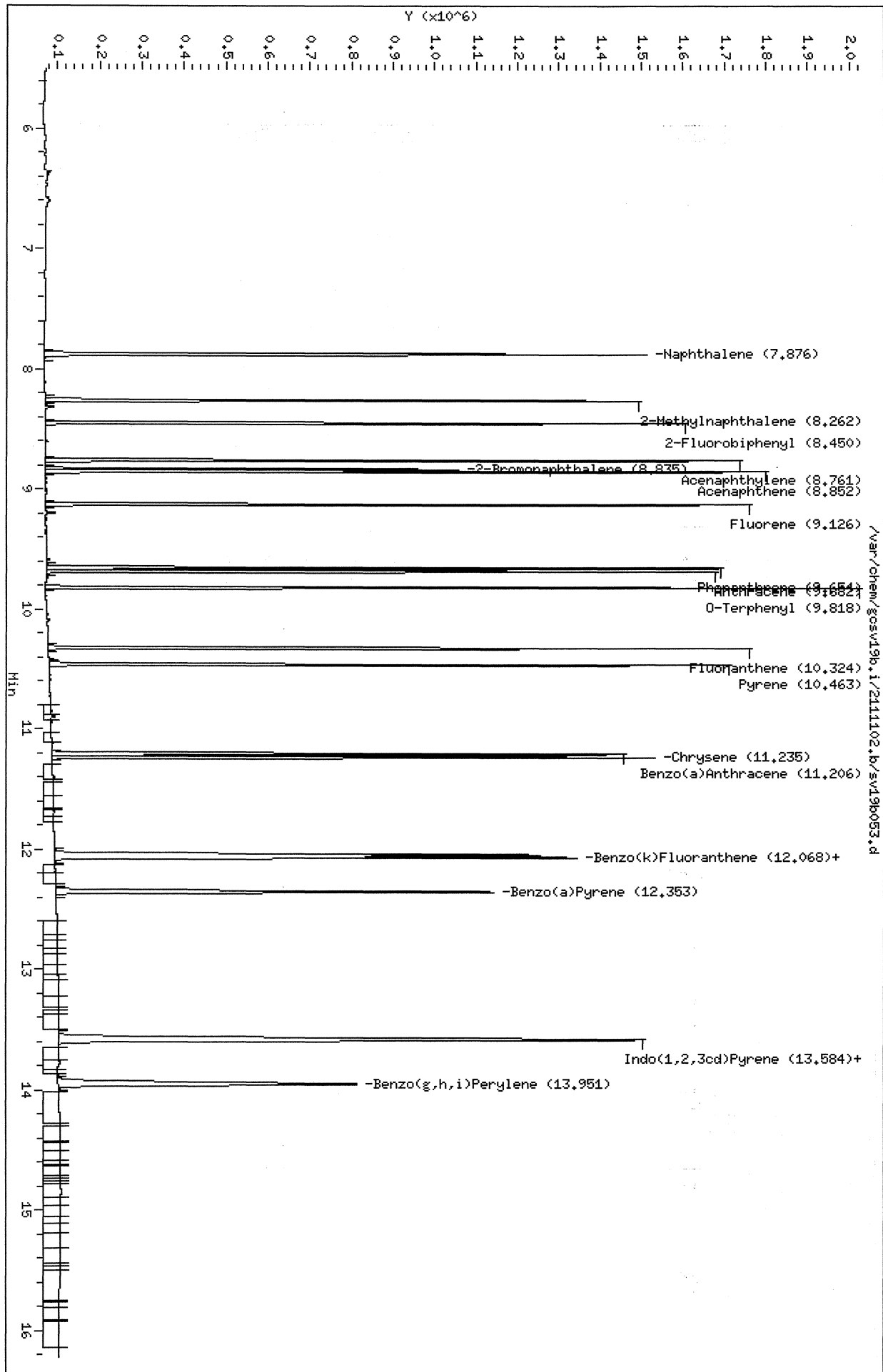
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
15 Chrysene	11.235	11.235	0.000	26912958	10.0000	10.2 (M2)
16 Benzo (b) Fluoranthene	12.068	12.066	0.002	54825513	20.0000	20.8 (M2)
17 Benzo (k) Fluoranthene	12.068	12.066	0.002	54825513	20.0000	20.8 (M2)
18 Benzo (a) Pyrene	12.353	12.351	0.002	26629448	10.0000	10.4 (M2)
19 Indo (1, 2, 3cd) Pyrene	13.584	13.576	0.008	52354931	20.0000	21.1 (M2)
20 Dibenzo (a, h) Anthracene	13.584	13.576	0.008	52354931	20.0000	21.1 (M2)
21 Benzo (g, h, i) Perylene	13.951	13.945	0.006	27043066	10.0000	10.4 (M2)
M 22 Arom C11-C22				461781444	170.000	175
M 113 Total Surrogate Area				70131562	0.00000	(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation (BLOQ).
- M2- Compound response manually integrated because Target system integrated incorrectly.

Data File: /var/chem/gcsw19b.i/2111102.b/sw19b053.d
 Date: 02-NOV-2014 16:19
 Client ID: 1 84-12-8
 Sample Info: 120241 84-12-8
 Volume Injected (UL): 1.0
 Column Phase: DB-5MS-30M

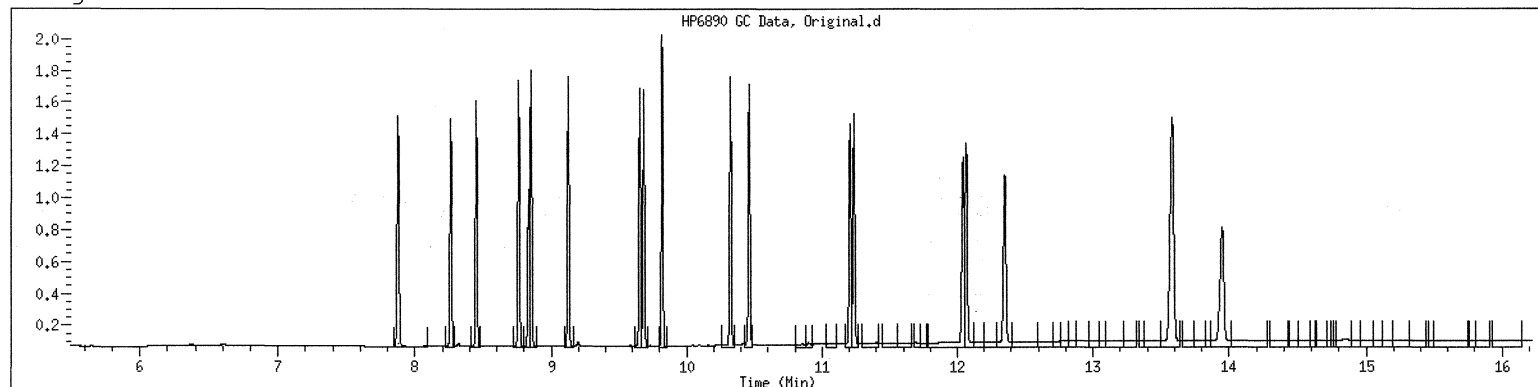
Instrument: gcsw19b.i
 Operator: smh
 Column diameter: 0.25



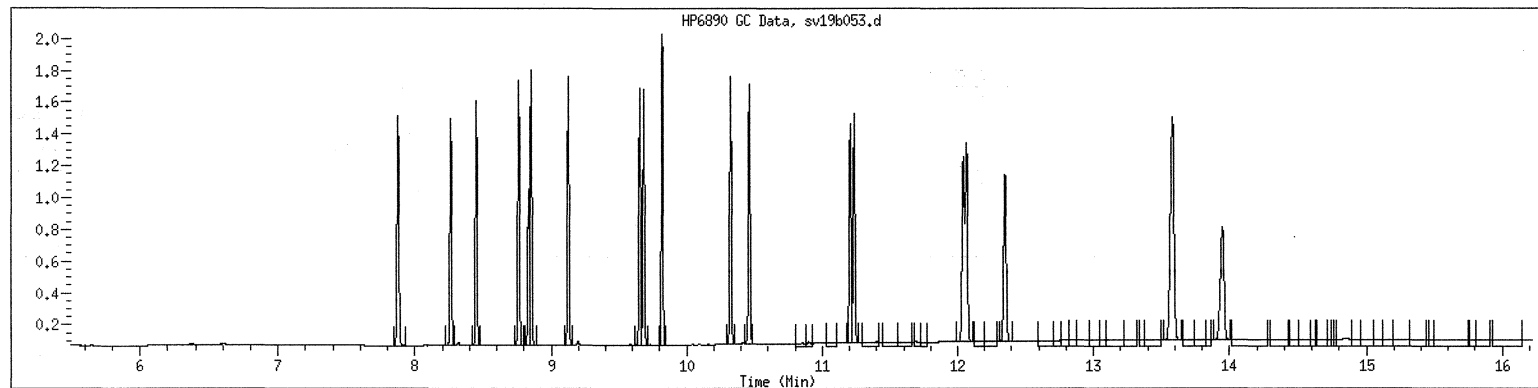
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1202 SampleType : CALIB_2
Injection Date: 11/02/2011 16:19 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1202*1 84-12-8
Misc Info :
Method : /var/chem/gcsv19b.i/2111102.b/AROEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111102.b/sv19b054.d
 Lab Smp Id: 1203 Client Smp ID: 1 84-12-8
 Inj Date : 02-NOV-2011 16:42
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1203*1 84-12-8
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111102.b/AROEPHmass.m
 Meth Date : 08-Nov-2011 08:35 dlb Quant Type: ESTD
 Cal Date : 02-NOV-2011 16:42 Cal File: sv19b054.d
 Als bottle: 54 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 Naphthalene	7.879	7.879	0.000	139788310	50.0000	49.1
2 2-Methylnaphthalene	8.265	8.263	0.002	117276990	50.0000	49.3
\$ 3 2-Fluorobiphenyl	8.453	8.451	0.002	121056403	50.0000	49.3
4 Acenaphthylene	8.765	8.762	0.003	136793555	50.0000	49.6
\$ 5 2-Bromonaphthalene	8.838	8.834	0.004	80038867	50.0000	50.7
6 Acenaphthene	8.857	8.853	0.004	139868814	50.0000	48.2
7 Fluorene	9.130	9.129	0.001	137962328	50.0000	50.3
8 Phenanthrene	9.657	9.654	0.003	138945044	50.0000	51.5
9 Anthracene	9.687	9.683	0.004	132795791	50.0000	51.1
\$ 10 O-Terphenyl	9.820	9.819	0.001	146838940	50.0000	50.0
12 Fluoranthene	10.325	10.323	0.002	143260836	50.0000	52.0
13 Pyrene	10.465	10.463	0.002	145266555	50.0000	52.3
14 Benzo(a)Anthracene	11.207	11.208	-0.001	141731614	50.0000	53.4

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
15 Chrysene	11.239	11.236	0.003	138612563	50.0000	51.7
16 Benzo(b)Fluoranthene	12.080	12.070	0.010	286933061	100.000	106 (M2)
17 Benzo(k)Fluoranthene	12.080	12.070	0.010	286933061	100.000	106 (M2)
18 Benzo(a)Pyrene	12.363	12.355	0.008	145257809	50.0000	54.3
19 Indo(1,2,3cd)Pyrene	13.615	13.589	0.026	283675684	100.000	109
20 Dibenzo(a,h)Anthracene	13.615	13.589	0.026	283675684	100.000	109 (M1)
21 Benzo(g,h,i)Perylene	13.988	13.959	0.029	147104717	50.0000	54.3
M 22 Arom C11-C22				2375273671	850.000	882
M 113 Total Surrogate Area				347934210	0.00000	(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M1- Compound response manually integrated because Target system did not integrate.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Date : 02-NOV-2011 16:42

Client ID: 1 84-12-8

Instrument: gcsv19b.i

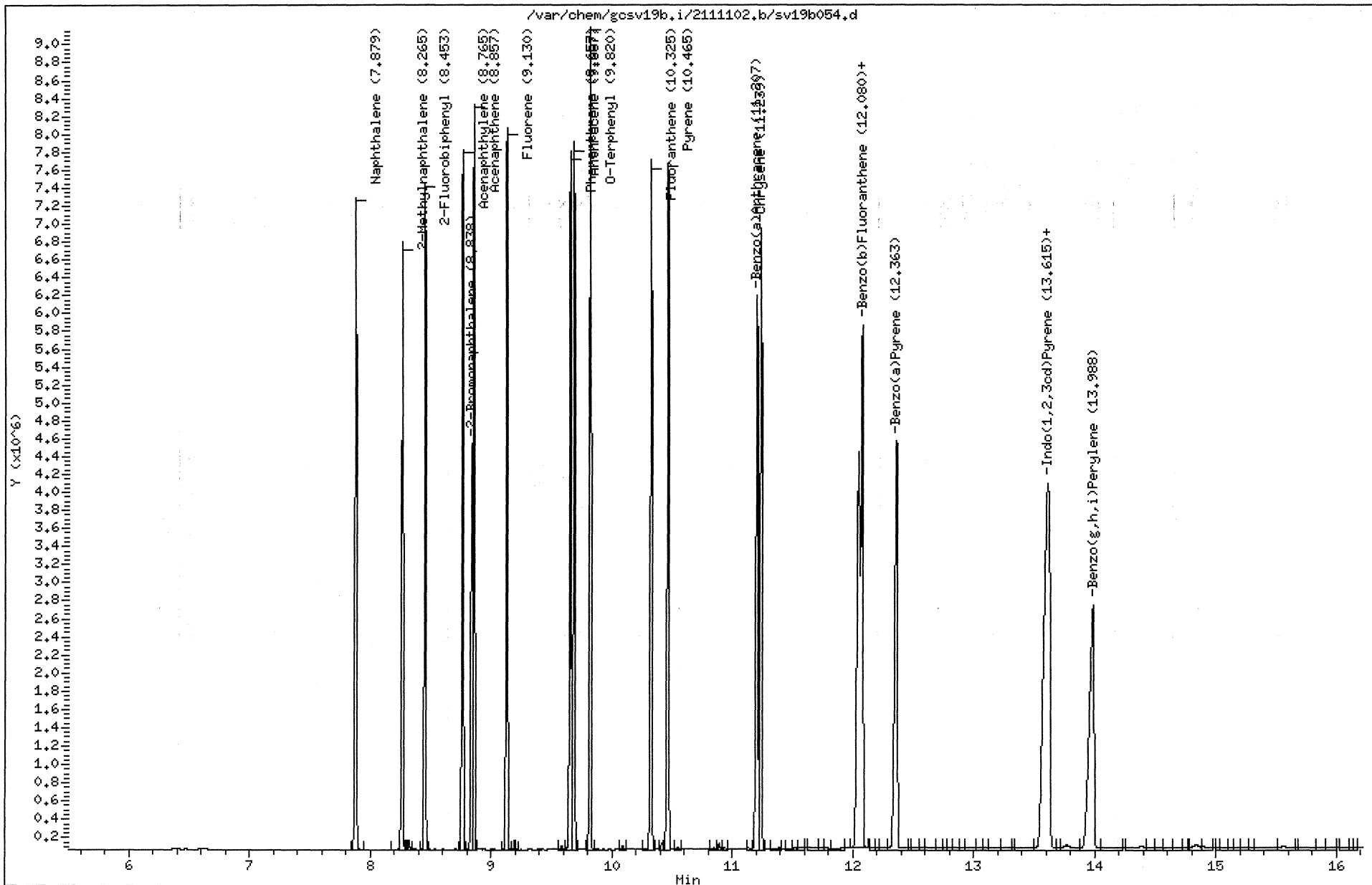
Sample Info: 1203*1 84-12-8

Volume Injected (uL): 1.0

Operator: smh

Column phase: DB-5MS-30M

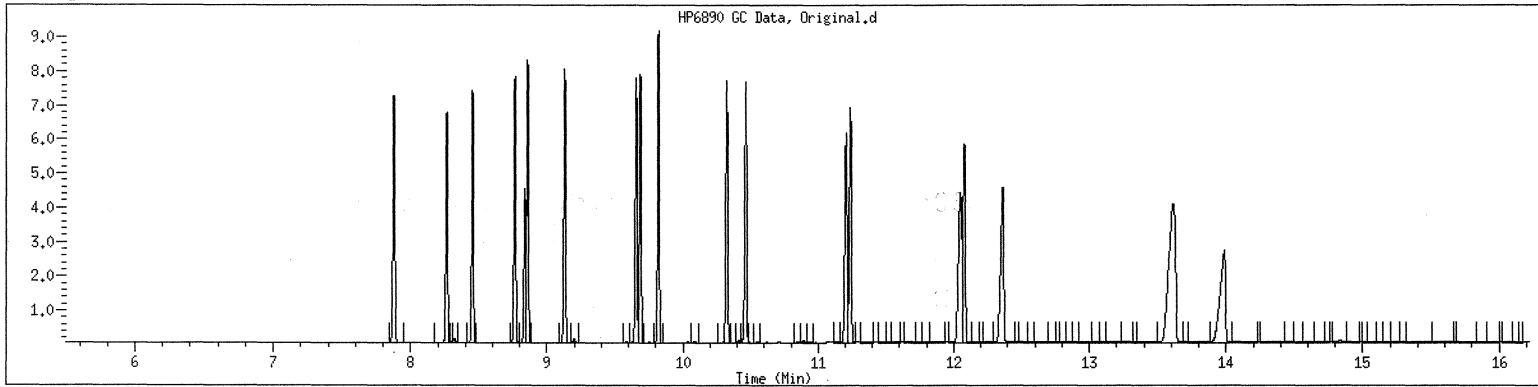
Column diameter: 0.25



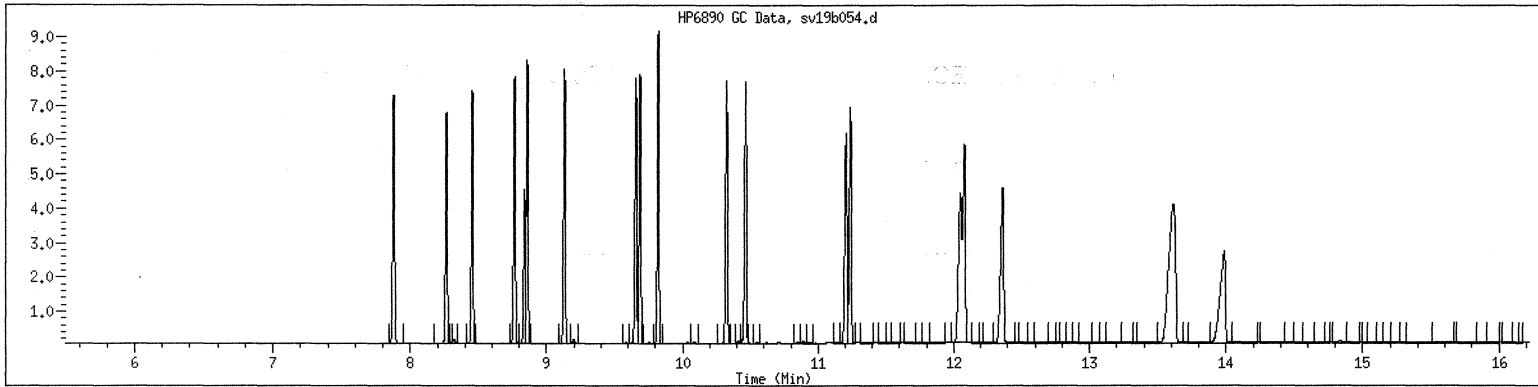
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1203 SampleType : CALIB_3
Injection Date: 11/02/2011 16:42 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1203*1 84-12-8
Misc Info :
Method : /var/chem/gcsv19b.i/2111102.b/AROEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111102.b/sv19b055.d
 Lab Smp Id: 1204 Client Smp ID: 1 84-12-8
 Inj Date : 02-NOV-2011 17:07
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1204*1 84-12-8
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111102.b/AROEPhmass.m
 Meth Date : 08-Nov-2011 08:35 dlb Quant Type: ESTD
 Cal Date : 02-NOV-2011 17:07 Cal File: sv19b055.d
 Als bottle: 55 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 Naphthalene	7.882	7.879	0.003	285933881	100.000	100
2 2-Methylnaphthalene	8.269	8.264	0.005	240615323	100.000	101
\$ 3 2-Fluorobiphenyl	8.457	8.453	0.004	247996907	100.000	101
4 Acenaphthylene	8.769	8.764	0.005	280178162	100.000	101
\$ 5 2-Bromonaphthalene	8.843	8.836	0.007	166132975	100.000	104
6 Acenaphthene	8.864	8.855	0.009	284763163	100.000	98.5
7 Fluorene	9.136	9.131	0.005	283332686	100.000	103
8 Phenanthrene	9.663	9.656	0.007	284993363	100.000	104
9 Anthracene	9.695	9.685	0.010	274676746	100.000	104
\$ 10 O-Terphenyl	9.826	9.821	0.005	297908777	100.000	101
12 Fluoranthene	10.334	10.325	0.009	292363394	100.000	105
13 Pyrene	10.475	10.465	0.010	296654255	100.000	105
14 Benzo(a)Anthracene	11.219	11.211	0.008	294240261	100.000	108

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
15 Chrysene	11.255	11.240	0.015	284443626	100.000	105
16 Benzo(b)Fluoranthene	12.103	12.078	0.025	593961569	200.000	214 (AM2)
17 Benzo(k)Fluoranthene	12.103	12.078	0.025	593961569	200.000	214 (AM2)
18 Benzo(a)Pyrene	12.387	12.363	0.024	296055391	100.000	108
19 Indo(1,2,3cd)Pyrene	13.675	13.610	0.065	573310212	200.000	215 (AM2)
20 Dibenzo(a,h)Anthracene	13.675	13.610	0.065	573310212	200.000	215 (AM2)
21 Benzo(g,h,i)Perylene	14.036	13.979	0.057	300370678	100.000	108
M 22 Arom C11-C22				4865892710	1700.00	1780
M 113 Total Surrogate Area				712038659	0.00000	(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Date : 02-NOV-2011 17:07

Client ID: 1 84-12-8

Sample Info: 1204*1 84-12-8

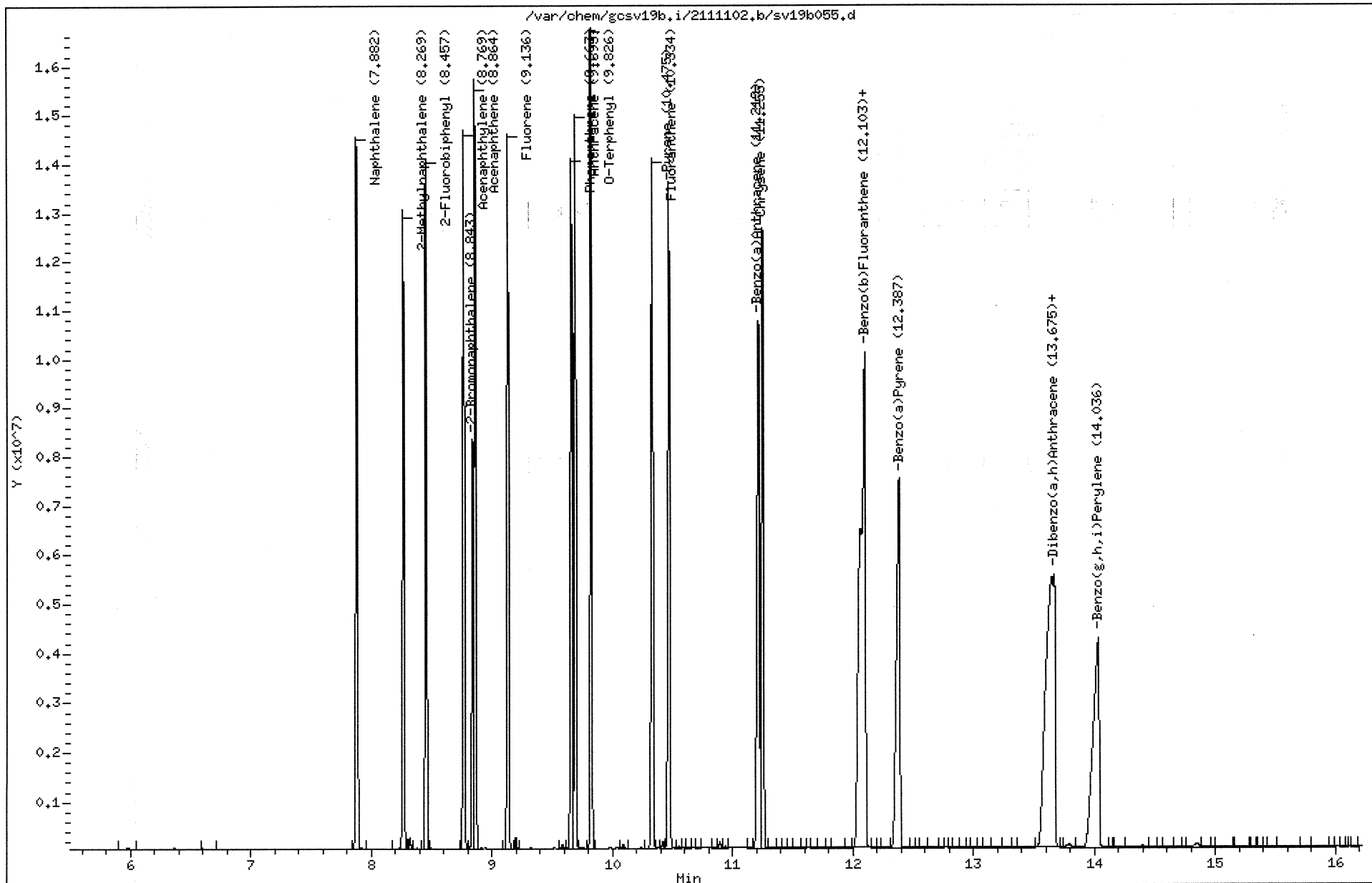
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gcsv19b.i

Operator: smh

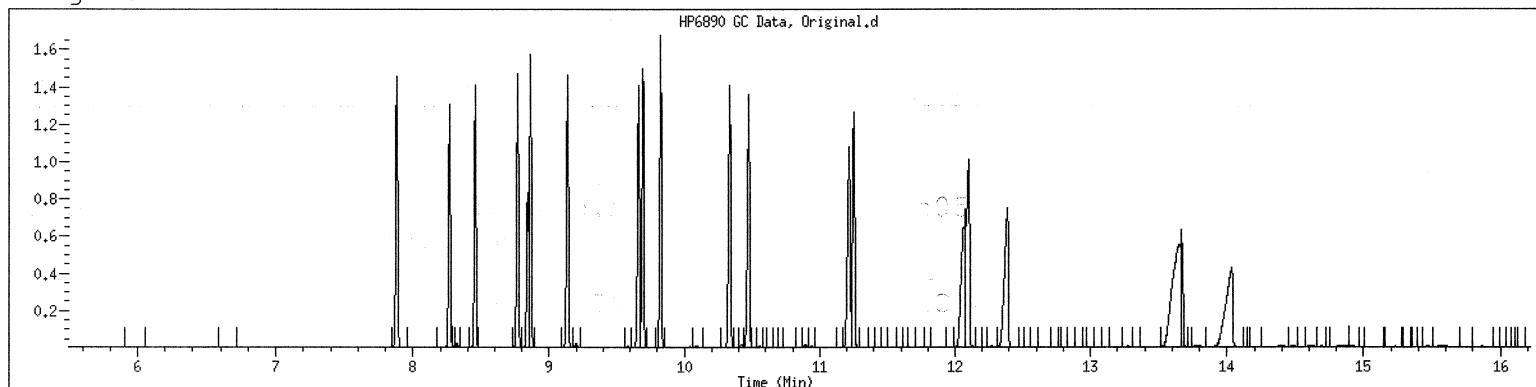
Column diameter: 0.25



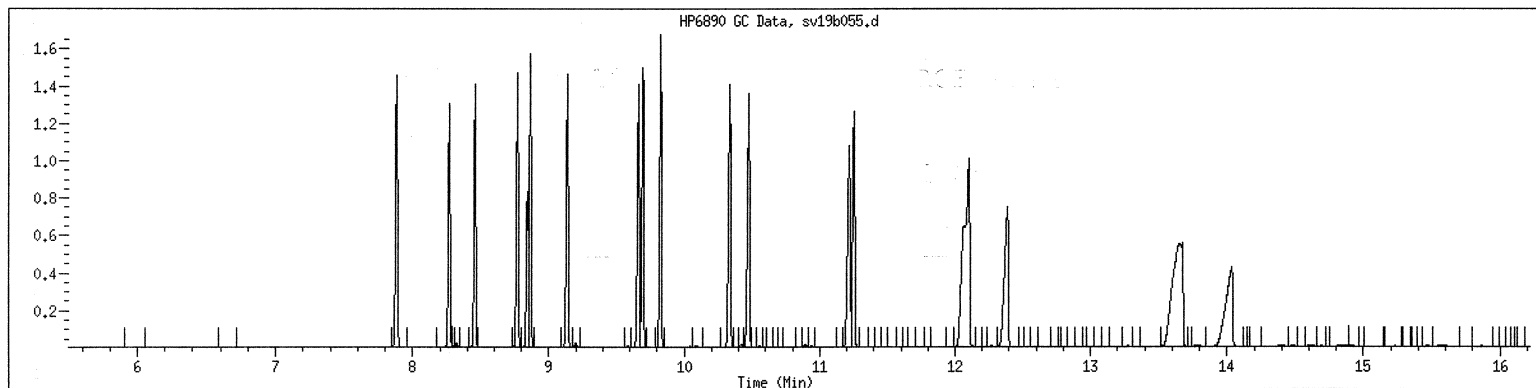
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1204 SampleType : CALIB_4
Injection Date: 11/02/2011 17:07 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1204*1 84-12-8
Misc Info :
Method : /var/chem/gcsv19b.i/2111102.b/AROEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111102.b/sv19b056.d
 Lab Smp Id: 1205 Client Smp ID: 1 84-12-8
 Inj Date : 02-NOV-2011 17:30
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1205*1 84-12-8
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111102.b/AROEPhmass.m
 Meth Date : 08-Nov-2011 08:35 dlb Quant Type: ESTD
 Cal Date : 02-NOV-2011 17:30 Cal File: sv19b056.d
 Als bottle: 56 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 Naphthalene	7.888	7.881	0.007	560773309	200.000	197
2 2-Methylnaphthalene	8.274	8.266	0.008	471635711	200.000	198
\$ 3 2-Fluorobiphenyl	8.462	8.454	0.008	487110868	200.000	198
4 Acenaphthylene	8.776	8.767	0.009	549624381	200.000	199
\$ 5 2-Bromonaphthalene	8.853	8.839	0.014	289830833	200.000	185
6 Acenaphthene	8.872	8.858	0.014	598423437	200.000	206 (A)
7 Fluorene	9.143	9.133	0.010	560238934	200.000	202 (A)
8 Phenanthrene	9.671	9.658	0.013	571061474	200.000	207 (A)
9 Anthracene	9.705	9.689	0.016	544704598	200.000	205 (A)
\$ 10 O-Terphenyl	9.832	9.823	0.009	590845256	200.000	200 (A)
12 Fluoranthene	10.343	10.329	0.014	584649476	200.000	207 (A)
13 Pyrene	10.485	10.468	0.017	594957073	200.000	208 (A)
14 Benzo(a)Anthracene	11.230	11.215	0.015	597011528	200.000	215 (A)

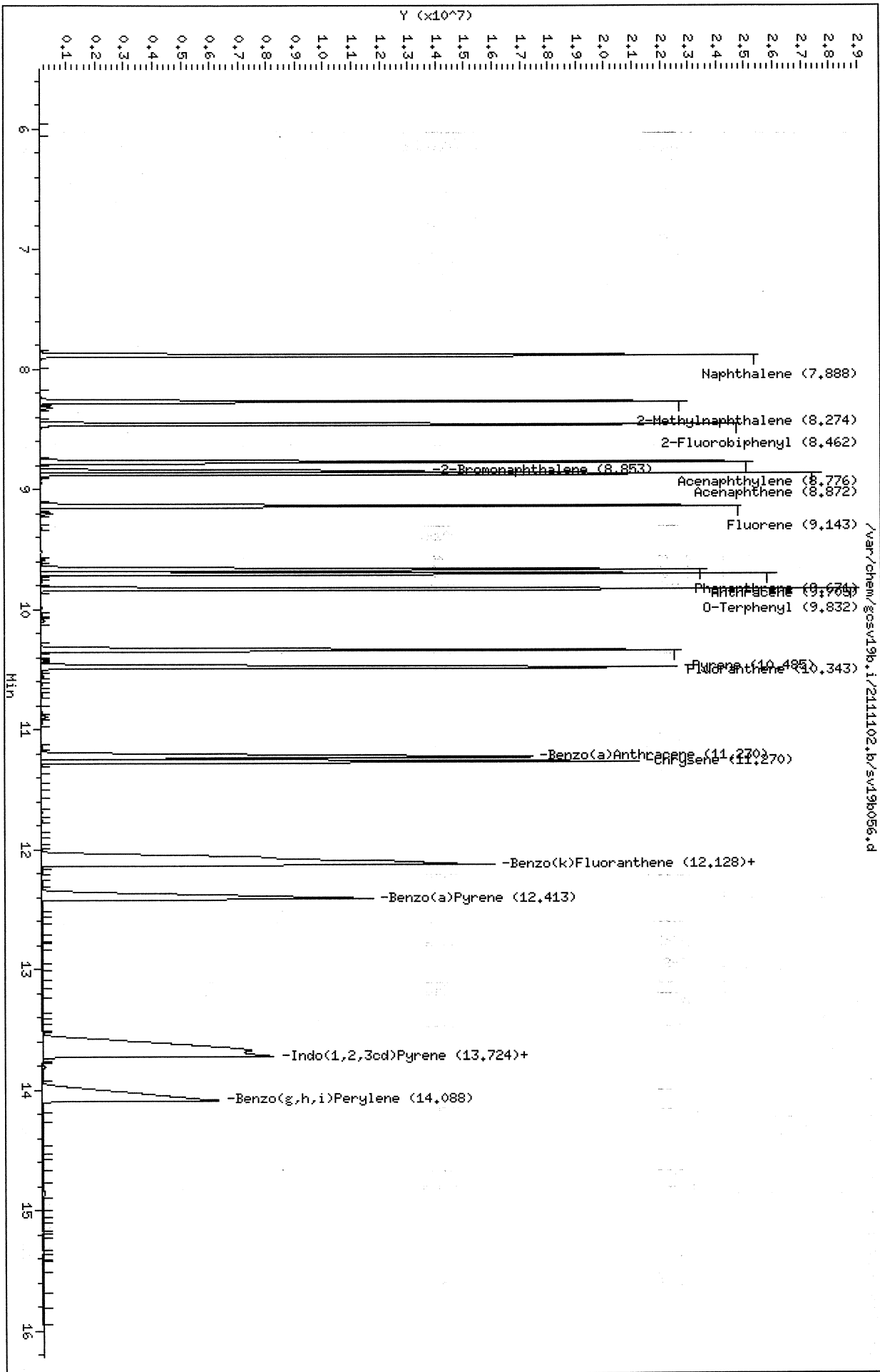
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
15 Chrysene	11.270	11.246	0.024	571139866	200.000	208 (A)
16 Benzo(b) Fluoranthene	12.128	12.088	0.040	1177732644	400.000	419 (AM1)
17 Benzo(k) Fluoranthene	12.128	12.088	0.040	1177732644	400.000	419 (A)
18 Benzo(a) Pyrene	12.413	12.373	0.040	575092148	200.000	207 (A)
19 Indo(1,2,3cd) Pyrene	13.724	13.632	0.092	1087945178	400.000	406 (AM2)
20 Dibenzo(a,h) Anthracene	13.724	13.632	0.092	1087945178	400.000	406 (AM2)
21 Benzo(g,h,i) Perylene	14.088	14.001	0.087	550489918	200.000	198
M 22 Arom C11-C22				9595479675	3400.00	3480
M 113 Total Surrogate Area				1367786957	0.00000	(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M1- Compound response manually integrated because Target system did not integrate.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Data File: /var/chem/gcsw19b.i/2111102.b/sw19b056.d
 Date : 02-NOV-2011 17:30
 Client ID: 1 84-12-8
 Sample Info: 1205x1 84-12-8
 Volume Injected (uL): 1.0
 Column phase: DB-5MS-30M

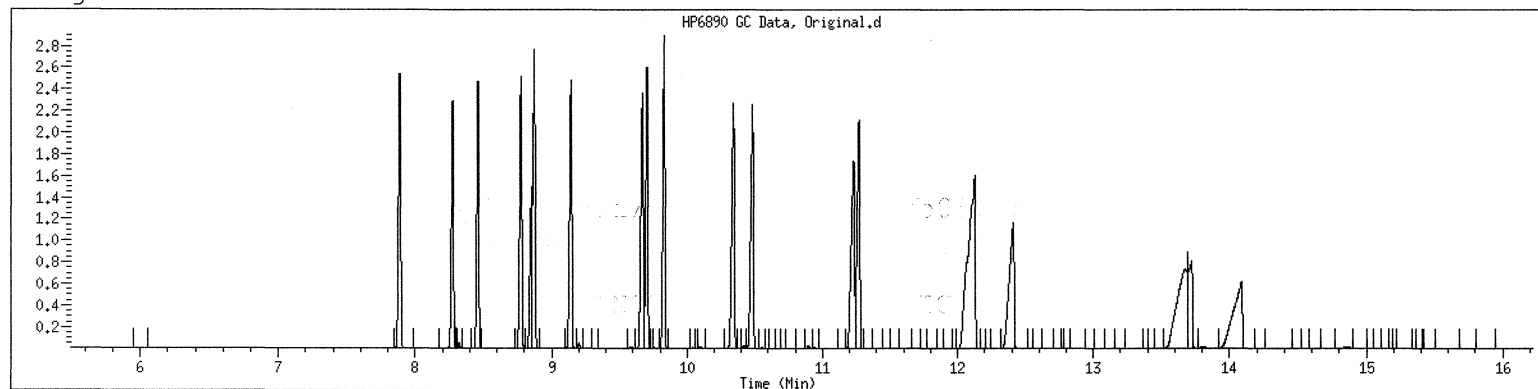
Instrument: gcsw19b.i
 Operator: smh
 Column diameter: 0.25



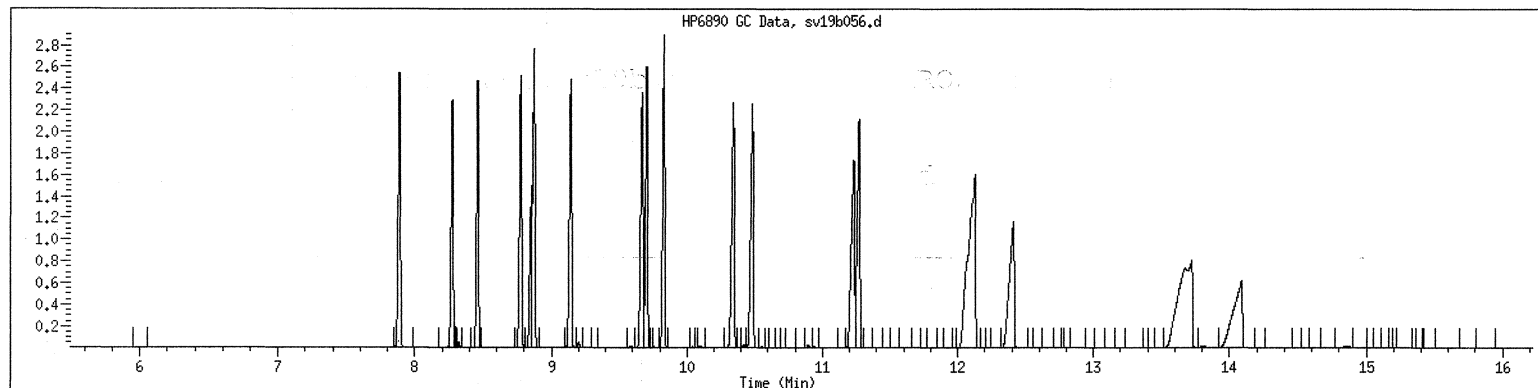
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1205 SampleType : CALIB_5
Injection Date: 11/02/2011 17:30 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1205*1 84-12-8
Misc Info :
Method : /var/chem/gcsv19b.i/2111102.b/AROEPMass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

RECOVERY REPORT

Client Name: Client SDG: 2111102
 Sample Matrix: LIQUID Fraction: SV
 Lab Smp Id: 1600 Client Smp ID: 1 84-7-10
 Level: LOW Operator: smh
 Data Type: GC MULTI COMP SampleType: LCS
 SpikeList File: AROMICV.spk Quant Type: ESTD
 Sublist File: all.sub
 Method File: /var/chem/gcsv19b.i/2111102.b/AROEPHmass.m
 Misc Info:

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Naphthalene	50.0	49.0	98.05	75-125
2 2-Methylnaphthalene	50.0	55.6	111.25	75-125
4 Acenaphthylene	50.0	49.5	98.98	75-125
6 Acenaphthene	50.0	47.9	95.74	75-125
7 Fluorene	50.0	50.0	100.07	75-125
8 Phenanthrene	50.0	50.4	100.72	75-125
9 Anthracene	50.0	50.5	100.97	75-125
12 Fluoranthene	50.0	49.6	99.22	75-125
13 Pyrene	50.0	51.1	102.27	75-125
14 Benzo (a) Anthracene	50.0	50.4	100.89	75-125
15 Chrysene	50.0	49.9	99.75	75-125
16 Benzo (b) Fluoranthene	100	101	101.11	75-125
17 Benzo (k) Fluoranthene	100	101	101.11	75-125
18 Benzo (a) Pyrene	50.0	50.9	101.88	75-125
19 Indo (1, 2, 3cd) Pyrene	100	104	104.37	75-125
20 Dibenzo (a, h) Anthracene	100	104	104.37	75-125
21 Benzo (g, h, i) Perylene	50.0	52.5	105.06	75-125

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 3 2-Fluorobiphenyl	50.0	51.5	102.93	40-140
\$ 5 2-Bromonaphthalene	50.0	54.4	108.75	40-140
\$ 10 O-Terphenyl	50.0	55.1	110.13	40-140
\$ 11 Chloro-octadecane	50.0	0.00	*	40-140

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111102.b/sv19b057.d
 Lab Smp Id: 1600 Client Smp ID: 1 84-7-10
 Inj Date : 02-NOV-2011 17:55
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1600*1 84-7-10
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111102.b/AROEPhmass.m
 Meth Date : 08-Nov-2011 08:36 dlb Quant Type: ESTD
 Cal Date : 02-NOV-2011 17:30 Cal File: sv19b056.d
 Als bottle: 57 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1.00000	Volume of sample extracted (mL)
Vt	1.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 Naphthalene	7.879	7.881	-0.002	139338681	49.0256	49.0
2 2-Methylnaphthalene	8.266	8.266	0.000	132335257	55.6267	55.6
\$ 3 2-Fluorobiphenyl	8.453	8.454	-0.001	126473294	51.4645	51.5
4 Acenaphthylene	8.765	8.767	-0.002	136751456	49.4891	49.5
\$ 5 2-Bromonaphthalene	8.838	8.839	-0.001	85304529	54.3764	54.4
6 Acenaphthene	8.858	8.858	0.000	139305778	47.8689	47.9
7 Fluorene	9.131	9.133	-0.002	138659834	50.0363	50.0
8 Phenanthrene	9.658	9.658	0.000	139031327	50.3612	50.4
9 Anthracene	9.688	9.689	-0.001	133992045	50.4869	50.5
\$ 10 O-Terphenyl	9.822	9.823	-0.001	162371730	55.0637	55.1
12 Fluoranthene	10.327	10.329	-0.002	139951783	49.6082	49.6
13 Pyrene	10.467	10.468	-0.001	146018326	51.1362	51.1
14 Benzo(a)Anthracene	11.209	11.215	-0.006	140091684	50.4462	50.4

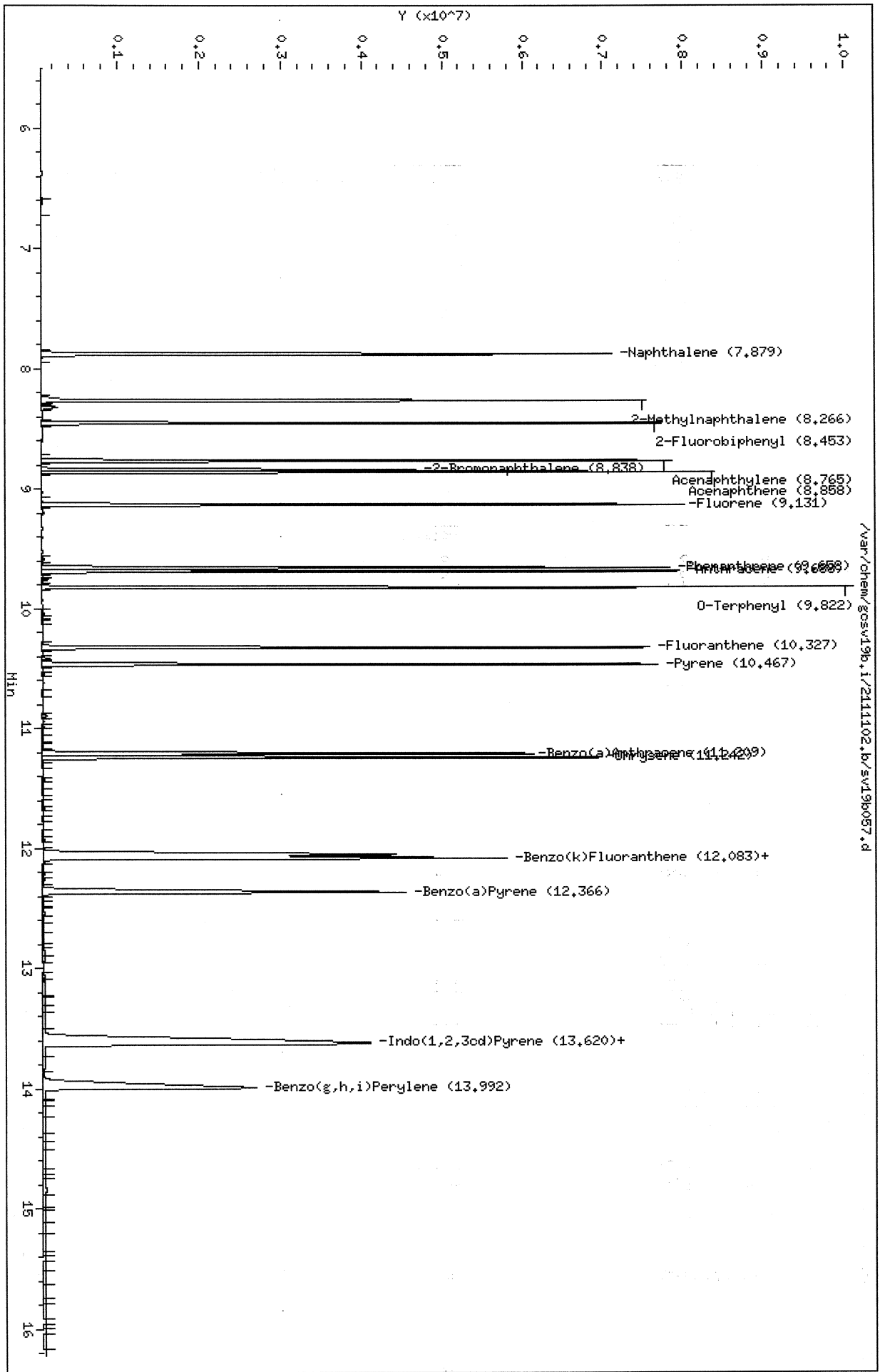
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
15 Chrysene	11.242	11.246	-0.004	137066815	49.8756	49.9
16 Benzo(b)Fluoranthene	12.083	12.088	-0.005	284470342	101.114	101 (M2)
17 Benzo(k)Fluoranthene	12.083	12.088	-0.005	284470342	101.114	101 (M2)
18 Benzo(a)Pyrene	12.366	12.373	-0.007	141233811	50.9376	50.9
19 Indo(1,2,3cd)Pyrene	13.620	13.632	-0.012	279620012	104.373	104
20 Dibenzo(a,h)Anthracene	13.620	13.632	-0.012	279620012	104.373	104 (M1)
21 Benzo(g,h,i)Perylene	13.992	14.001	-0.009	145927664	52.5299	52.5
M 22 Arom C11-C22				2373794815	862.915	863
M 113 Total Surrogate Area				374149553		(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M1- Compound response manually integrated because Target system did not integrate.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Data File: /var/chem/gosv19b.i/2111102.b/sv19b057.d
 Date: 02-NOV-2011 17:55
 Client ID: 1 84-7-10
 Sample Info: 1600x1 84-7-10
 Volume Injected (uL): 1.0
 Column phase: DB-SMS-30M

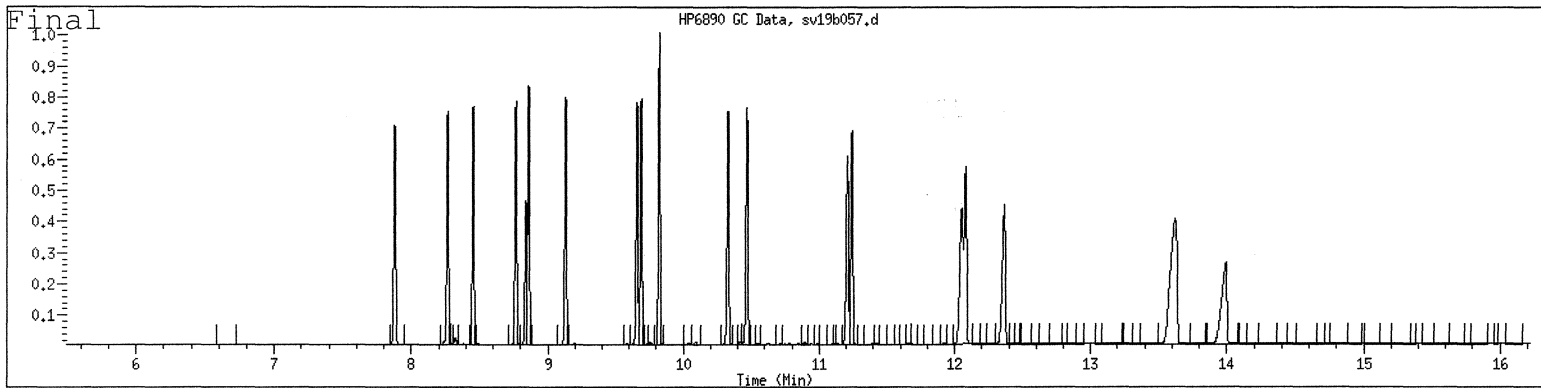
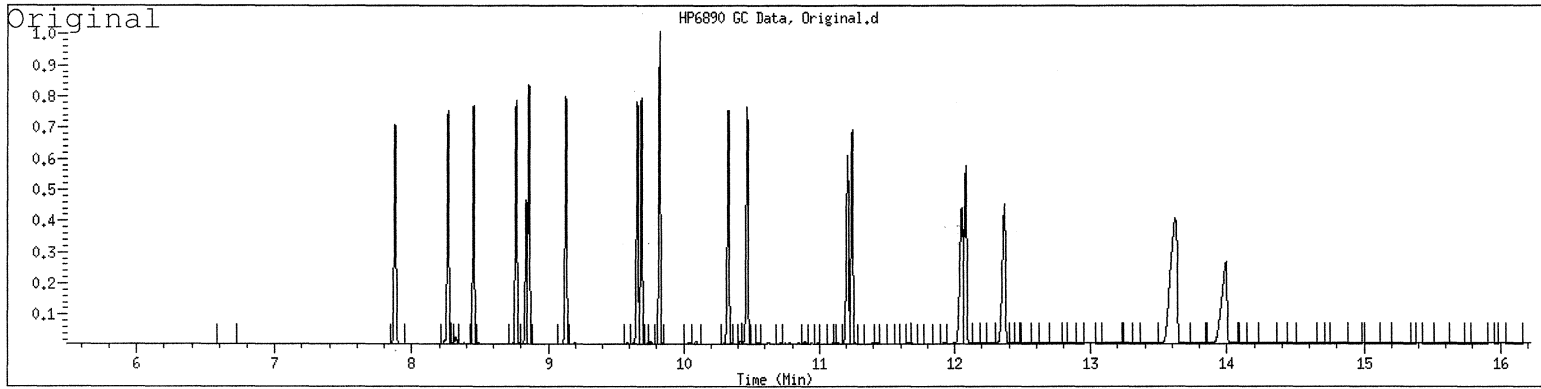
Instrument: gosv19b.i
 Operator: smh
 Column diameter: 0.25



/var/chem/gosv19b.i/2111102.b/sv19b057.d

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1600 SampleType : LCS
Injection Date: 11/02/2011 17:55 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1600*1 84-7-10
Misc Info :
Method : /var/chem/gcsv19b.i/2111102.b/AROEPhmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all



GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv19b.i Injection Date: 04-NOV-2011 08:48
 Lab File ID: sv19b052.d Init. Cal. Date(s): 02-NOV-2011 03-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 15:55 14:30
 Lab Sample ID: 1400 Quant Type: ESTD
 Method: /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 Naphthalene	2842159	2619807	0.010	7.82335	25.00000	Averaged
2 2-Methylnaphthalene	2378988	2198019	0.010	7.60700	25.00000	Averaged
3 2-Fluorobiphenyl	2457488	2297333	0.010	6.51700	25.00000	Averaged
4 Acenaphthylene	2763267	2588653	0.010	6.31910	25.00000	Averaged
5 2-Bromonaphthalene	1568778	1526774	0.010	2.67752	25.00000	Averaged
6 Acenaphthene	2910153	2626227	0.010	9.75639	25.00000	Averaged
7 Fluorene	2771184	2586780	0.010	6.65436	25.00000	Averaged
8 Phenanthrene	2760684	2650730	0.010	3.98287	25.00000	Averaged
9 Anthracene	2653997	2524466	0.010	4.88060	25.00000	Averaged
10 O-Terphenyl	2948796	2856200	0.010	3.14011	25.00000	Averaged
11 Chloro-octadecane	2739500	++++	0.010	+++	25.00000	Averaged<-
12 Fluoranthene	2821141	2753536	0.010	2.39635	25.00000	Averaged
13 Pyrene	2855480	2796536	0.010	2.06425	25.00000	Averaged
14 Benzo(a)Anthracene	2777049	2743858	0.010	1.19518	25.00000	Averaged
15 Chrysene	2748172	2706024	0.010	1.53368	25.00000	Averaged
16 Benzo(b)Fluoranthene	2813367	2815382	0.010	-0.07164	25.00000	Averaged
17 Benzo(k)Fluoranthene	2813367	2815382	0.010	-0.07164	25.00000	Averaged
18 Benzo(a)Pyrene	2772685	2826412	0.010	-1.93772	25.00000	Averaged
19 Indo(1,2,3cd)Pyrene	2679052	2753570	0.010	-2.78150	25.00000	Averaged
20 Dibenzo(a,h)Anthracene	2679052	2753570	0.010	-2.78150	25.00000	Averaged
21 Benzo(g,h,i)Perylene	2777993	2849763	0.010	-2.58352	25.00000	Averaged
22 Arom C11-C22	2753988	2682866	0.010	2.58251	25.00000	Averaged
23 Unadjusted Arom C11-C22	+++	+++	0.010	+++	25.00000	Averaged<-
113 Total Surrogate Area	+++	+++	0.010	+++	25.00000	Averaged<-

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 8.15263
 Maximun Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b052.d
 Lab Smp Id: 1400 Client Smp ID: 1 84-12-8
 Inj Date : 04-NOV-2011 08:48
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1400*1 84-12-8
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/AROEPhmass.m
 Meth Date : 08-Nov-2011 13:36 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 52 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS						
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (UG/ML)	ON-COL (UG/ML)	
1 Naphthalene	7.878	7.881	-0.003	130990346	50.0000	46.1	
2 2-Methylnaphthalene	8.264	8.266	-0.002	109900939	50.0000	46.2	
\$ 3 2-Fluorobiphenyl	8.453	8.454	-0.001	114866664	50.0000	46.7	
4 Acenaphthylene	8.764	8.767	-0.003	129432655	50.0000	46.8	
\$ 5 2-Bromonaphthalene	8.838	8.839	-0.001	76338699	50.0000	48.7	
6 Acenaphthene	8.857	8.858	-0.001	131311343	50.0000	45.1	
7 Fluorene	9.131	9.133	-0.002	129338984	50.0000	46.7	
8 Phenanthrene	9.660	9.659	0.001	132536495	50.0000	48.0	
9 Anthracene	9.691	9.689	0.002	126223310	50.0000	47.6	
\$ 10 O-Terphenyl	9.825	9.824	0.001	142810019	50.0000	48.4	
12 Fluoranthene	10.335	10.330	0.005	137676811	50.0000	48.8	
13 Pyrene	10.476	10.471	0.005	139826800	50.0000	49.0	
14 Benzo(a)Anthracene	11.224	11.218	0.006	137192902	50.0000	49.4	

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
15 Chrysene	11.256	11.250	0.006	135301194	50.0000	49.2
16 Benzo(b)Fluoranthene	12.101	12.092	0.009	281538232	100.000	100 (M2)
17 Benzo(k)Fluoranthene	12.101	12.092	0.009	281538232	100.000	100 (M2)
18 Benzo(a)Pyrene	12.386	12.377	0.009	141320615	50.0000	51.0
19 Indo(1,2,3cd)Pyrene	13.641	13.638	0.003	275356972	100.000	103
20 Dibenzo(a,h)Anthracene	13.641	13.638	0.003	275356972	100.000	103 (M1)
21 Benzo(g,h,i)Perylene	14.014	14.006	0.008	142488157	50.0000	51.3
M 22 Arom C11-C22				2280435755	850.000	828
M 113 Total Surrogate Area				334015382	0.00000	(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M1- Compound response manually integrated because Target system did not integrate.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Date : 04-NOV-2011 08:48

Client ID: 1 84-12-8

Sample Info: 1400*1 84-12-8

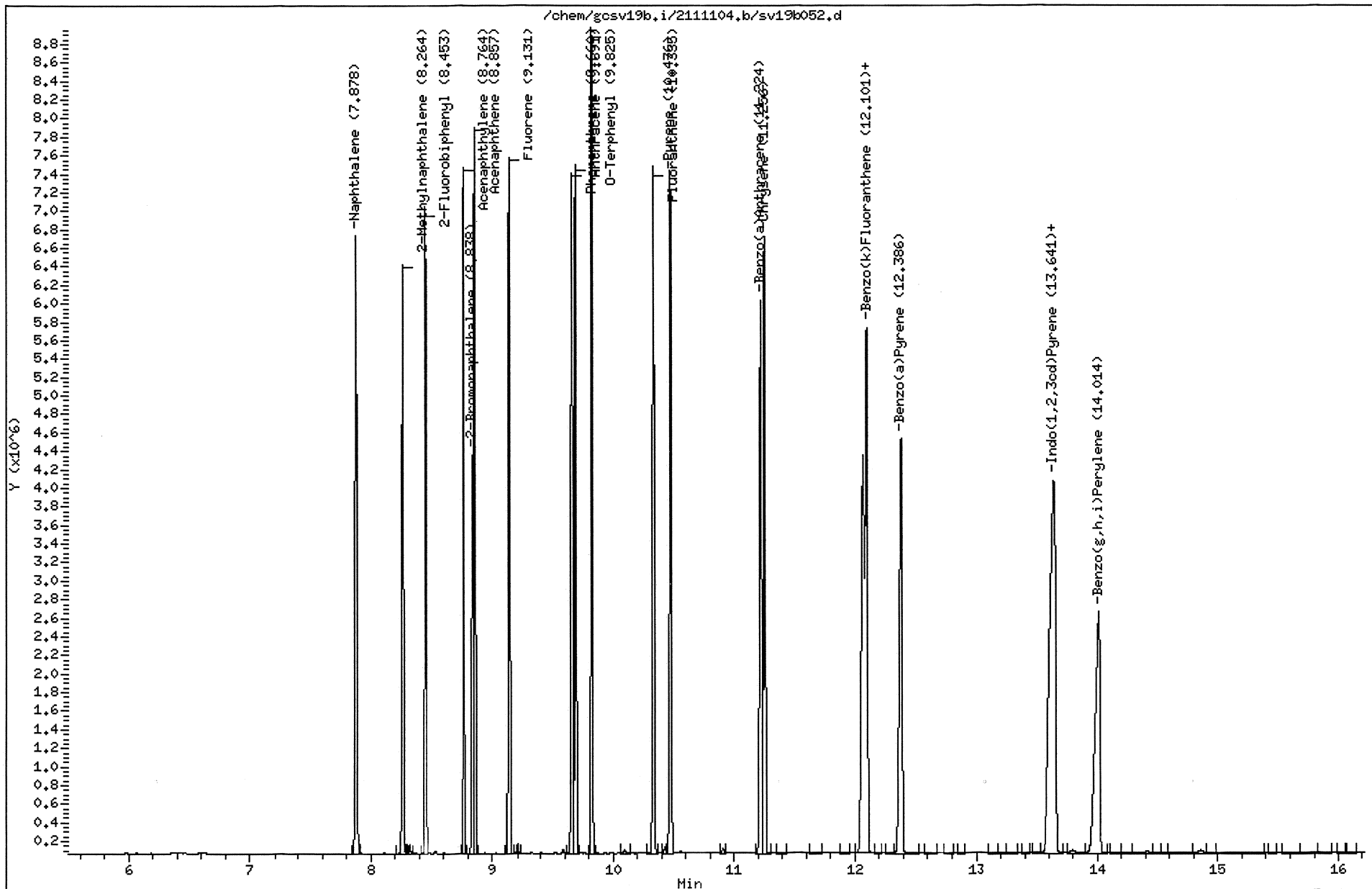
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gosv19b.i

Operator: smh

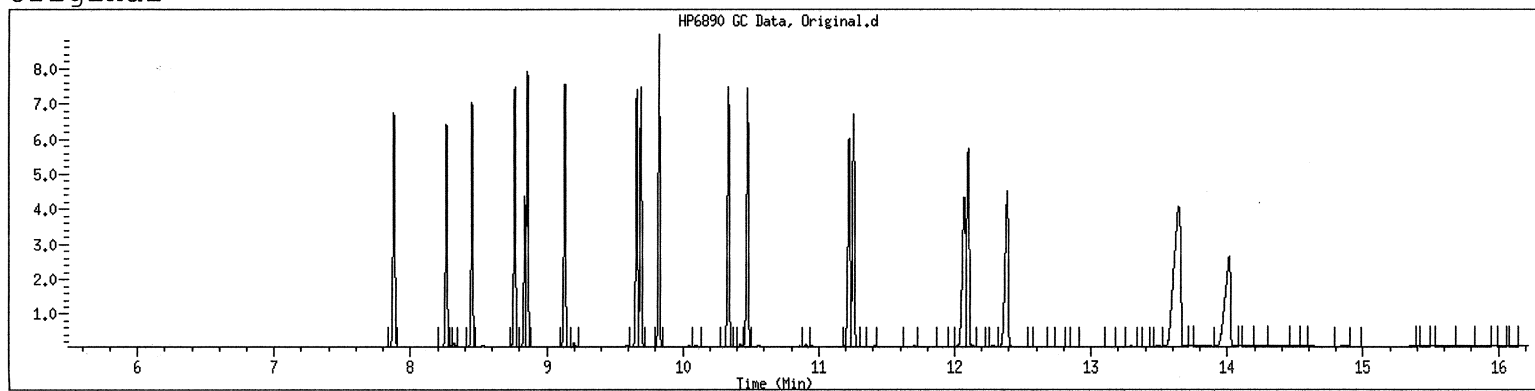
Column diameter: 0.25



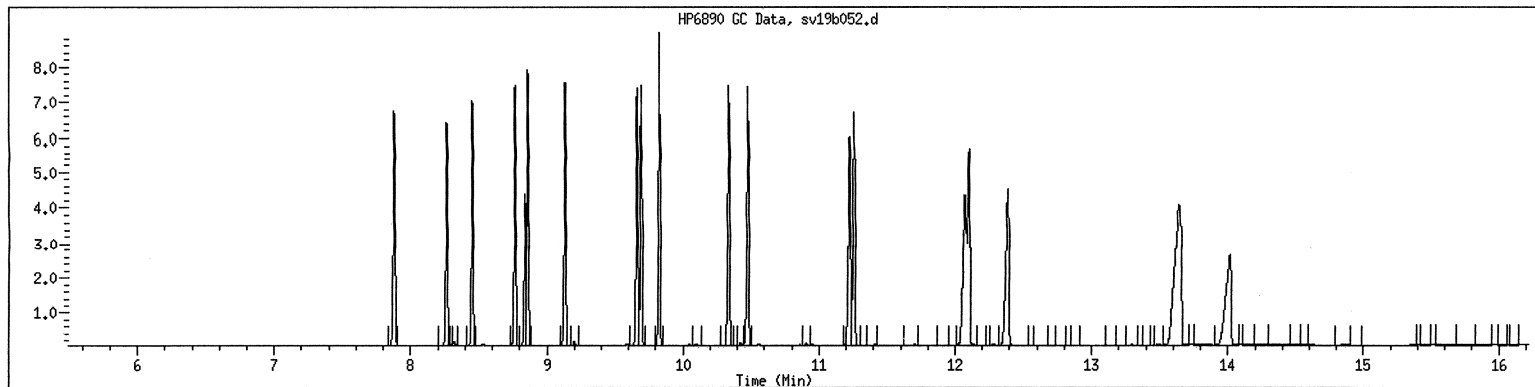
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1400 SampleType : CCALIB_3
Injection Date: 11/04/2011 08:48 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1400*1 84-12-8
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv19b.i Injection Date: 04-NOV-2011 15:20
 Lab File ID: sv19b064.d Init. Cal. Date(s): 02-NOV-2011 03-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 15:55 14:30
 Lab Sample ID: 1400 Quant Type: ESTD
 Method: /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
|1 Naphthalene	| 2842159|	| 2687333|	| 0.010|	| 5.44748|	| 25.00000|	| Averaged|
|2 2-Methylnaphthalene	| 2378988|	| 2259700|	| 0.010|	| 5.01425|	| 25.00000|	| Averaged|
|\$ 3 2-Fluorobiphenyl	| 2457488|	| 2349400|	| 0.010|	| 4.39829|	| 25.00000|	| Averaged|
|4 Acenaphthylene	| 2763267|	| 2646120|	| 0.010|	| 4.23944|	| 25.00000|	| Averaged|
|\$ 5 2-Bromonaphthalene	| 1568778|	| 1499146|	| 0.010|	| 4.43861|	| 25.00000|	| Averaged|
|6 Acenaphthene	| 2910153|	| 2782857|	| 0.010|	| 4.37421|	| 25.00000|	| Averaged|
|7 Fluorene	| 2771184|	| 2681206|	| 0.010|	| 3.24691|	| 25.00000|	| Averaged|
|8 Phenanthrene	| 2760684|	| 2711677|	| 0.010|	| 1.77521|	| 25.00000|	| Averaged|
|9 Anthracene	| 2653997|	| 2564916|	| 0.010|	| 3.35649|	| 25.00000|	| Averaged|
|\$ 10 O-Terphenyl	| 2948796|	| 2889155|	| 0.010|	| 2.02255|	| 25.00000|	| Averaged|
|\$ 11 Chloro-octadecane	| 2739500|	| +++++|	| 0.010|	| +++++|	| 25.00000|	| Averaged|<-
|12 Fluoranthene	| 2821141|	| 2809781|	| 0.010|	| 0.40265|	| 25.00000|	| Averaged|
|13 Pyrene	| 2855480|	| 2851317|	| 0.010|	| 0.14578|	| 25.00000|	| Averaged|
|14 Benzo(a)Anthracene	| 2777049|	| 2766429|	| 0.010|	| 0.38242|	| 25.00000|	| Averaged|
|15 Chrysene	| 2748172|	| 2741093|	| 0.010|	| 0.25759|	| 25.00000|	| Averaged|
|16 Benzo(b)Fluoranthene	| 2813367|	| 2836361|	| 0.010|	| -0.81732|	| 25.00000|	| Averaged|
|17 Benzo(k)Fluoranthene	| 2813367|	| 2836361|	| 0.010|	| -0.81732|	| 25.00000|	| Averaged|
|18 Benzo(a)Pyrene	| 2772685|	| 2835814|	| 0.010|	| -2.27681|	| 25.00000|	| Averaged|
|19 Indo(1,2,3cd)Pyrene	| 2679052|	| 2768701|	| 0.010|	| -3.34630|	| 25.00000|	| Averaged|
|20 Dibenzo(a,h)Anthracene	| 2679052|	| 2768701|	| 0.010|	| -3.34630|	| 25.00000|	| Averaged|
|21 Benzo(g,h,i)Perylene	| 2777993|	| 2891876|	| 0.010|	| -4.09945|	| 25.00000|	| Averaged|
|M 22 Arom C11-C22	| 2753988|	| 2731779|	| 0.010|	| 0.80642|	| 25.00000|	| Averaged|
|23 Unadjusted Arom C11-C22	| +++++|	| +++++|	| 0.010|	| +++++|	| 25.00000|	| Averaged|<-
|M 113 Total Surrogate Area	| +++++|	| +++++|	| 0.010|	| +++++|	| 25.00000|	| Averaged|<-

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 7.04599
 Maximun Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b064.d
 Lab Smp Id: 1400 Client Smp ID: 1 84-12-8
 Inj Date : 04-NOV-2011 15:20
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1400*1 84-12-8
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/AROEPMass.m
 Meth Date : 08-Nov-2011 13:57 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 64 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 Naphthalene	7.879	7.881	-0.002	134366638	50.0000	47.3
2 2-Methylnaphthalene	8.266	8.266	0.000	112984994	50.0000	47.5
\$ 3 2-Fluorobiphenyl	8.454	8.455	-0.001	117470022	50.0000	47.8
4 Acenaphthylene	8.765	8.767	-0.002	132305981	50.0000	47.9
\$ 5 2-Bromonaphthalene	8.839	8.839	0.000	74957316	50.0000	47.8
6 Acenaphthene	8.858	8.859	-0.001	139142828	50.0000	47.8
7 Fluorene	9.132	9.133	-0.001	134060320	50.0000	48.4
8 Phenanthrene	9.660	9.659	0.001	135583832	50.0000	49.1
9 Anthracene	9.690	9.689	0.001	128245811	50.0000	48.3
\$ 10 O-Terphenyl	9.824	9.824	0.000	144457740	50.0000	49.0
12 Fluoranthene	10.332	10.330	0.002	140489058	50.0000	49.8
13 Pyrene	10.472	10.470	0.002	142565866	50.0000	49.9
14 Benzo(a)Anthracene	11.218	11.217	0.001	138321435	50.0000	49.8

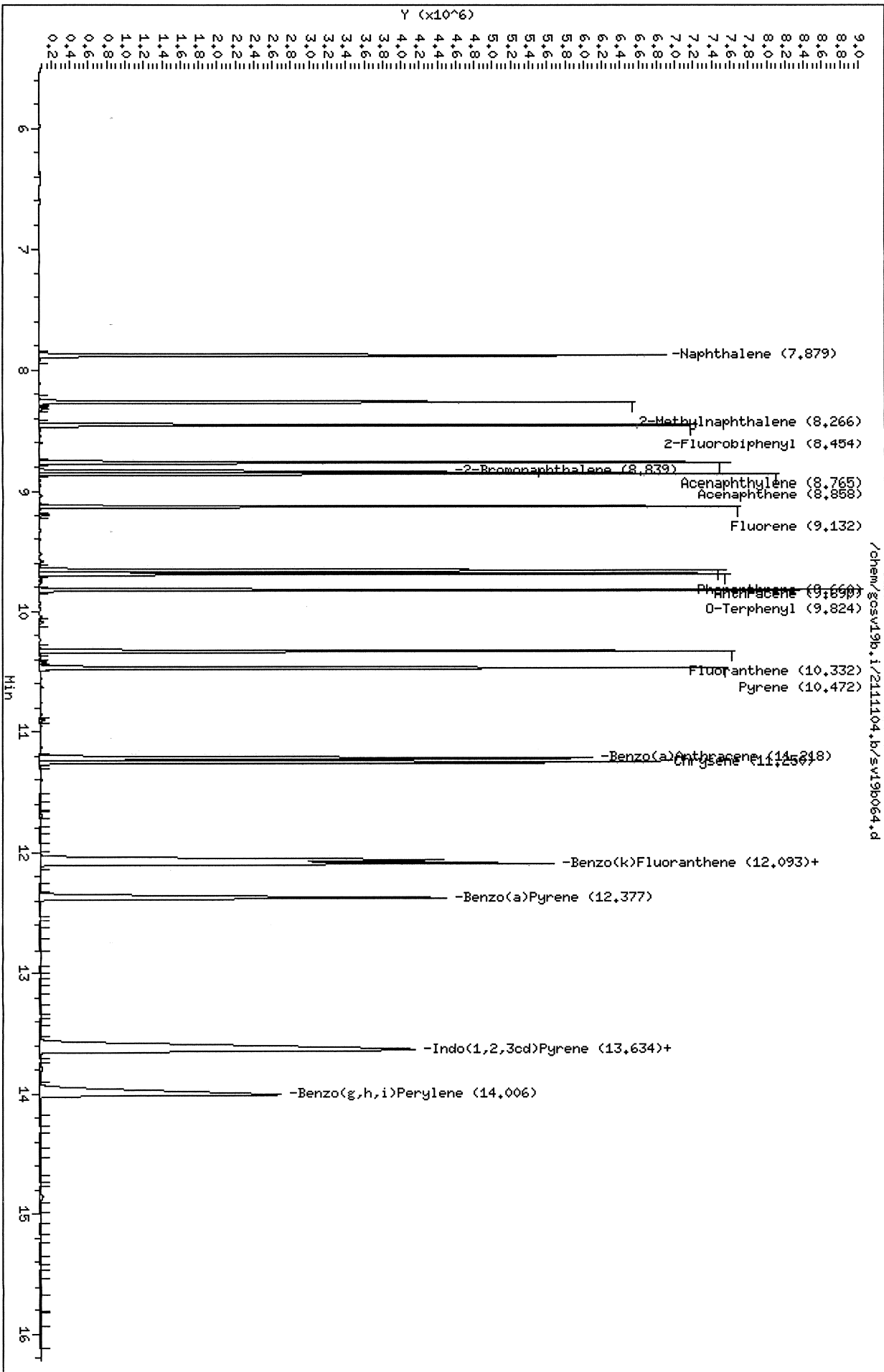
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
15 Chrysene	11.250	11.248	0.002	137054658	50.0000	49.9
16 Benzo(b)Fluoranthene	12.093	12.091	0.002	283636086	100.000	101 (M2)
17 Benzo(k)Fluoranthene	12.093	12.091	0.002	283636086	100.000	101 (M2)
18 Benzo(a)Pyrene	12.377	12.376	0.001	141790710	50.0000	51.1
19 Indo(1,2,3cd)Pyrene	13.634	13.636	-0.002	276870121	100.000	103
20 Dibenzo(a,h)Anthracene	13.634	13.636	-0.002	276870121	100.000	103 (M1)
21 Benzo(g,h,i)Perylene	14.006	14.005	0.001	144593787	50.0000	52.0
M 22 Arom C11-C22				2322012125	850.000	843
M 113 Total Surrogate Area				336885078	0.00000	(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M1- Compound response manually integrated because Target system did not integrate.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Data File: /chem/gosv19b.i/2111104.b/sv19b064.d
Date : 04-NOV-2011 15:20
Client ID: 1 84-12-8
Sample Info: 1400x1 84-12-8
Volume Injected (uL): 1.0
Column phase: DB-SMS-30H

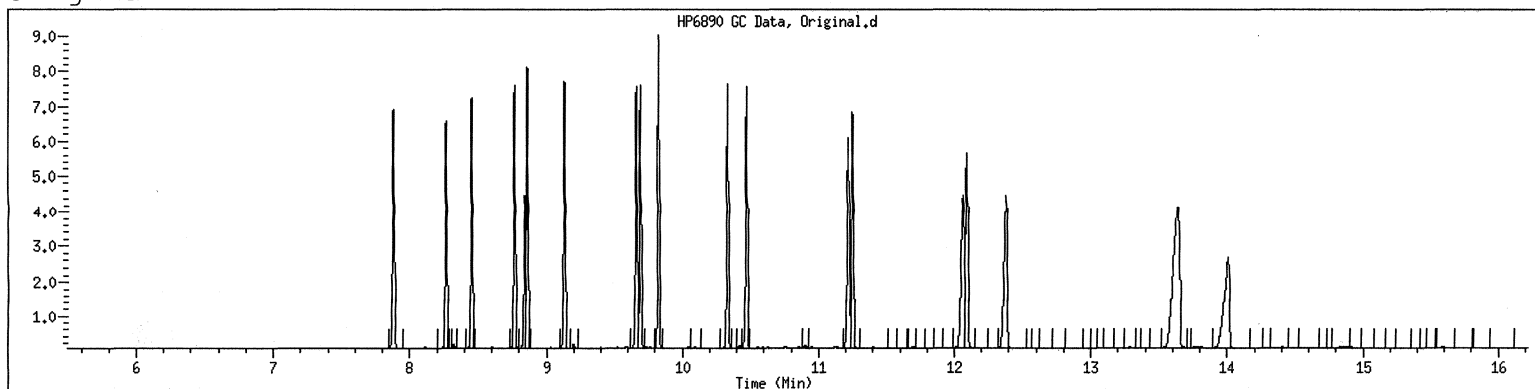
Instrument: gosv19b.i
Operator: smh
Column diameter: 0.25



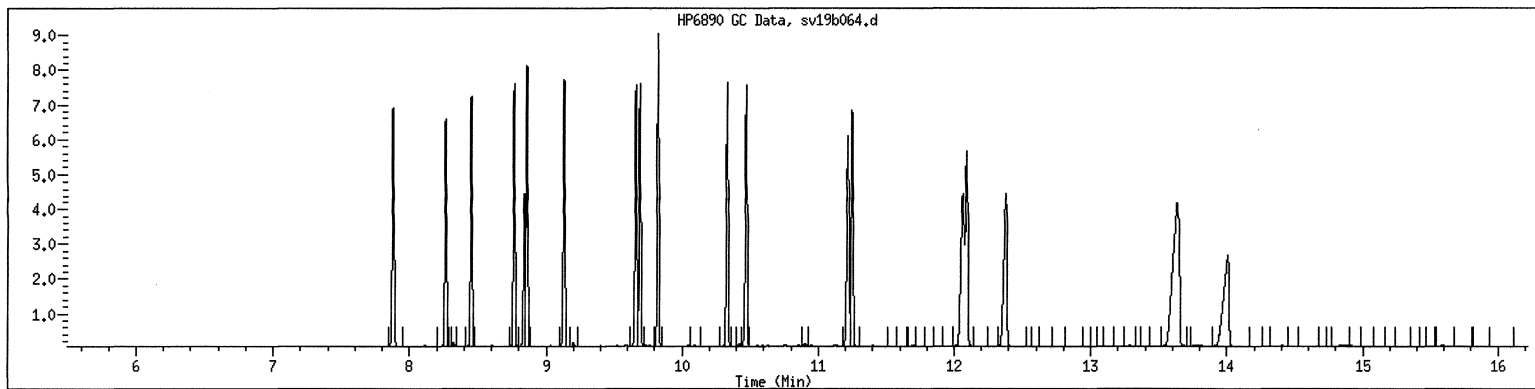
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1400 SampleType : CCALIB_3
Injection Date: 11/04/2011 15:20 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1400*1 84-12-8
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv19b.i Injection Date: 04-NOV-2011 21:02
 Lab File ID: sv19b078.d Init. Cal. Date(s): 02-NOV-2011 03-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 15:55 14:30
 Lab Sample ID: 1400 Quant Type: ESTD
 Method: /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT	%D / %DRIFT	
|1 Naphthalene	| 2842159|	| 2738058|	| 0.010|	| 3.66273|	| 25.00000|	| Averaged|	
|2 2-Methylnaphthalene	| 2378988|	| 2294921|	| 0.010|	| 3.53373|	| 25.00000|	| Averaged|	
|\$ 3 2-Fluorobiphenyl	| 2457488|	| 2378493|	| 0.010|	| 3.21447|	| 25.00000|	| Averaged|	
|4 Acenaphthylene	| 2763267|	| 2684675|	| 0.010|	| 2.84417|	| 25.00000|	| Averaged|	
|\$ 5 2-Bromonaphthalene	| 1568778|	| 1616043|	| 0.010|	| -3.01283|	| 25.00000|	| Averaged|	
|6 Acenaphthene	| 2910153|	| 2709141|	| 0.010|	| 6.90725|	| 25.00000|	| Averaged|	
|7 Fluorene	| 2771184|	| 2705485|	| 0.010|	| 2.37081|	| 25.00000|	| Averaged|	
|8 Phenanthrene	| 2760684|	| 2732439|	| 0.010|	| 1.02312|	| 25.00000|	| Averaged|	
|9 Anthracene	| 2653997|	| 2601571|	| 0.010|	| 1.97535|	| 25.00000|	| Averaged|	
|\$ 10 O-Terphenyl	| 2948796|	| 2905163|	| 0.010|	| 1.47967|	| 25.00000|	| Averaged|	
|\$ 11 Chloro-octadecane	| 2739500|	| +++++|	| 0.010|	| +++++|	| 25.00000|	| Averaged|<-	
|12 Fluoranthene	| 2821141|	| 2829367|	| 0.010|	| -0.29161|	| 25.00000|	| Averaged|	
|13 Pyrene	| 2855480|	| 2878648|	| 0.010|	| -0.81133|	| 25.00000|	| Averaged|	
|14 Benzo(a)Anthracene	| 2777049|	| 2821100|	| 0.010|	| -1.58626|	| 25.00000|	| Averaged|	
|15 Chrysene	| 2748172|	| 2767613|	| 0.010|	| -0.70740|	| 25.00000|	| Averaged|	
|16 Benzo(b)Fluoranthene	| 2813367|	| 2894257|	| 0.010|	| -2.87521|	| 25.00000|	| Averaged|	
|17 Benzo(k)Fluoranthene	| 2813367|	| 2894257|	| 0.010|	| -2.87521|	| 25.00000|	| Averaged|	
|18 Benzo(a)Pyrene	| 2772685|	| 2879567|	| 0.010|	| -3.85480|	| 25.00000|	| Averaged|	
|19 Indo(1,2,3cd)Pyrene	| 2679052|	| 2824695|	| 0.010|	| -5.43636|	| 25.00000|	| Averaged|	
|20 Dibenzo(a,h)Anthracene	| 2679052|	| 2824695|	| 0.010|	| -5.43636|	| 25.00000|	| Averaged|	
|21 Benzo(g,h,i)Perylene	| 2777993|	| 2907536|	| 0.010|	| -4.66317|	| 25.00000|	| Averaged|	
|M 22 Arom C11-C22	| 2753988|	| 2764001|	| 0.010|	| -0.36361|	| 25.00000|	| Averaged|	
|23 Unadjusted Arom C11-C22	| +++++|	| +++++|	| 0.010|	| +++++|	| 25.00000|	| Averaged|<-	
|M 113 Total Surrogate Area	| +++++|	| +++++|	| 0.010|	| +++++|	| 25.00000|	| Averaged|<-	

Average %D / Drift Results.
Calculated Average %D/Drift = 7.22388
Maximun Average %D/Drift = 25.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b078.d
 Lab Smp Id: 1400 Client Smp ID: 1 84-12-8
 Inj Date : 04-NOV-2011 21:02
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1400*1 84-12-8
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m
 Meth Date : 08-Nov-2011 14:08 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 78 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 Naphthalene	7.879	7.881	-0.002	136902912	50.0000	48.2
2 2-Methylnaphthalene	8.266	8.266	0.000	114746068	50.0000	48.2
\$ 3 2-Fluorobiphenyl	8.453	8.455	-0.002	118924633	50.0000	48.4
4 Acenaphthylene	8.766	8.767	-0.001	134233727	50.0000	48.6
\$ 5 2-Bromonaphthalene	8.839	8.839	0.000	80802145	50.0000	51.5
6 Acenaphthene	8.858	8.858	0.000	135457066	50.0000	46.5
7 Fluorene	9.132	9.133	-0.001	135274249	50.0000	48.8
8 Phenanthrene	9.660	9.659	0.001	136621969	50.0000	49.5
9 Anthracene	9.690	9.689	0.001	130078572	50.0000	49.0
\$ 10 O-Terphenyl	9.824	9.824	0.000	145258158	50.0000	49.3
12 Fluoranthene	10.332	10.330	0.002	141468360	50.0000	50.1
13 Pyrene	10.472	10.470	0.002	143932378	50.0000	50.4
14 Benzo(a)Anthracene	11.217	11.216	0.001	141054993	50.0000	50.8

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
15 Chrysene	11.249	11.248	0.001	138380641	50.0000	50.4
16 Benzo(b)Fluoranthene	12.092	12.091	0.001	289425705	100.000	103 (M2)
17 Benzo(k)Fluoranthene	12.092	12.091	0.001	289425705	100.000	103 (M2)
18 Benzo(a)Pyrene	12.376	12.376	0.000	143978345	50.0000	51.9
19 Indo(1,2,3cd)Pyrene	13.631	13.636	-0.005	282469487	100.000	105 (M1)
20 Dibenzo(a,h)Anthracene	13.631	13.636	-0.005	282469487	100.000	105
21 Benzo(g,h,i)Perylene	14.004	14.004	0.000	145376792	50.0000	52.3
M 22 Arom C11-C22				2349401264	850.000	853
M 113 Total Surrogate Area				344984936	0.00000	(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation (BLOQ).
- M1- Compound response manually integrated because Target system did not integrate.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Date : 04-NOV-2011 21:02

Client ID: 1 84-12-8

Sample Info: 1400x1 84-12-8

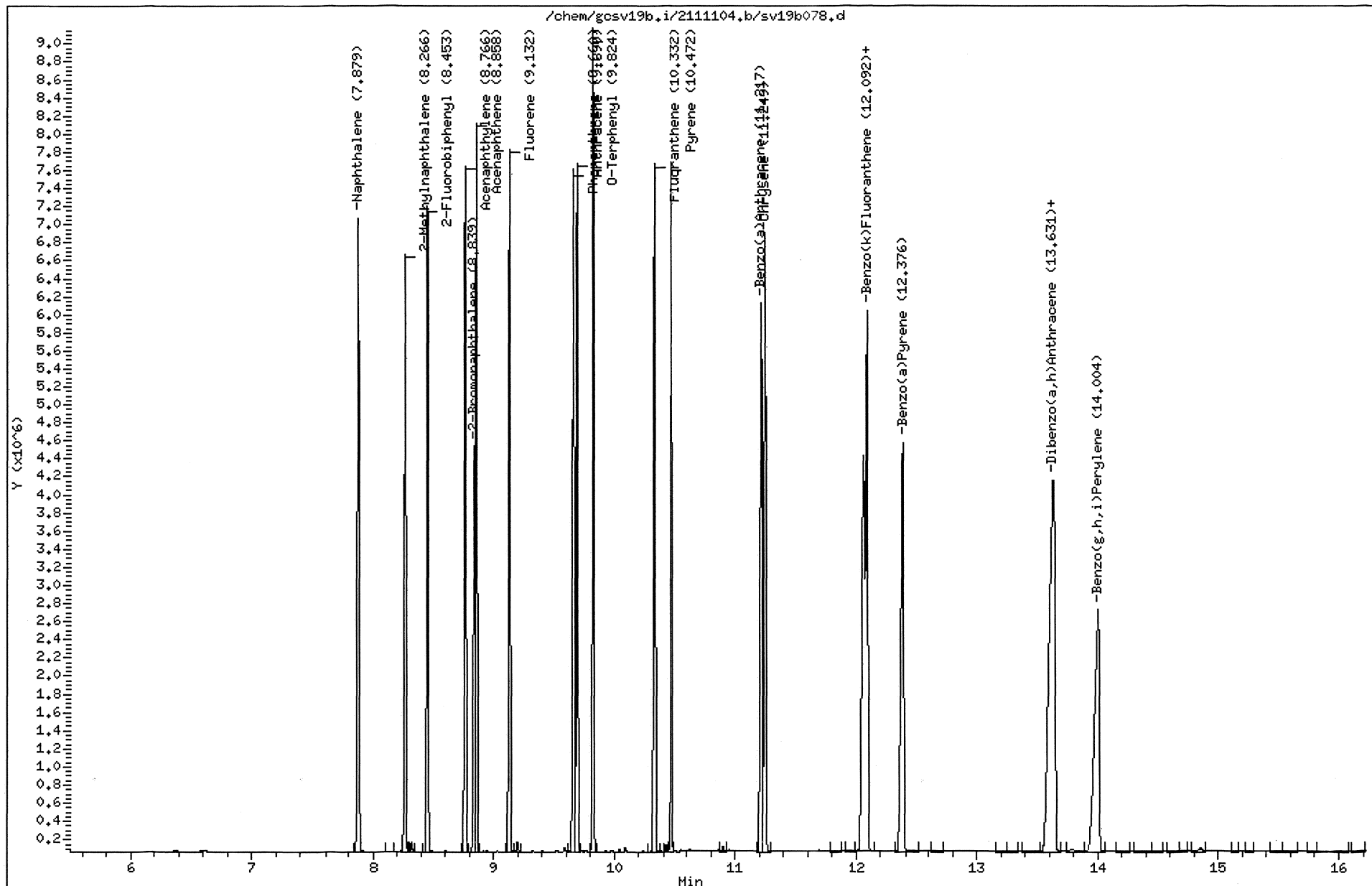
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gcsv19b.i

Operator: smh

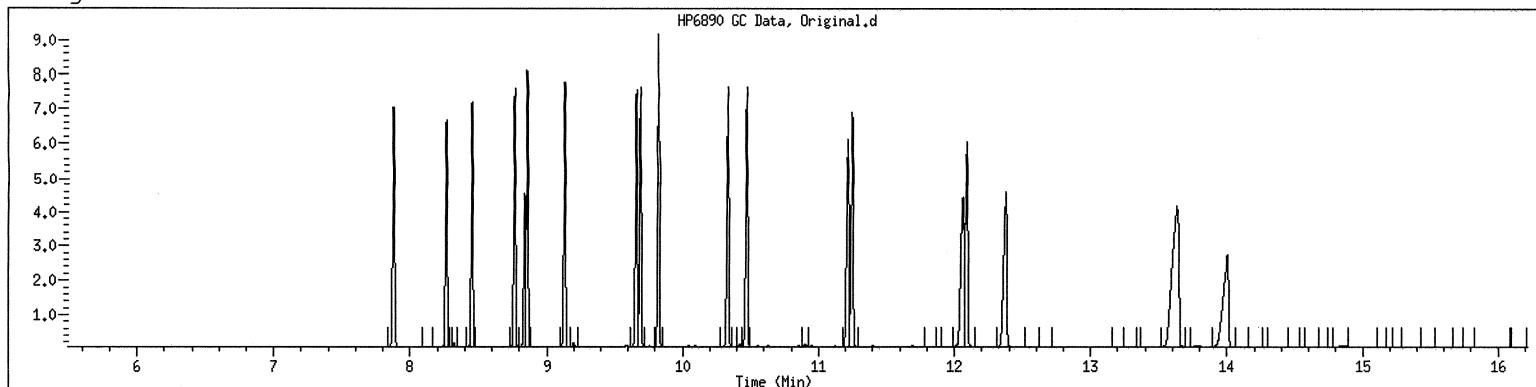
Column diameter: 0.25



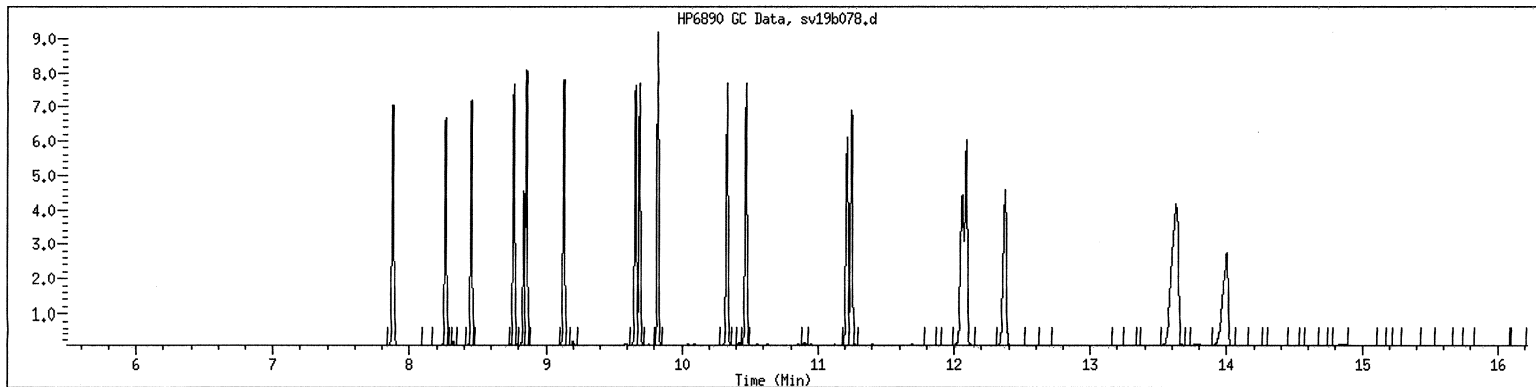
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1400 SampleType : CCALIB_3
Injection Date: 11/04/2011 21:02 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1400*1 84-12-8
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv19b.i Injection Date: 05-NOV-2011 02:38
 Lab File ID: sv19b092.d Init. Cal. Date(s): 02-NOV-2011 03-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 15:55 14:30
 Lab Sample ID: 1400 Quant Type: ESTD
 Method: /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m

COMPOUND	RRF / AMOUNT	RF50	MIN			MAX			CURVE TYPE
			RRF	%D	%DRIFT	%D	%DRIFT		
1 Naphthalene	2842159	2751150	0.010	3.20211	25.00000	Averaged			
2 2-Methylnaphthalene	2378988	2306335	0.010	3.05397	25.00000	Averaged			
\$ 3 2-Fluorobiphenyl	2457488	2388933	0.010	2.78964	25.00000	Averaged			
4 Acenaphthylene	2763267	2673972	0.010	3.23148	25.00000	Averaged			
\$ 5 2-Bromonaphthalene	1568778	1588186	0.010	-1.23711	25.00000	Averaged			
6 Acenaphthene	2910153	2762779	0.010	5.06412	25.00000	Averaged			
7 Fluorene	2771184	2728654	0.010	1.53474	25.00000	Averaged			
8 Phenanthrene	2760684	2743958	0.010	0.60590	25.00000	Averaged			
9 Anthracene	2653997	2598960	0.010	2.07377	25.00000	Averaged			
\$ 10 O-Terphenyl	2948796	2925170	0.010	0.80121	25.00000	Averaged			
\$ 11 Chloro-octadecane	2739500	++++	0.010	+++	25.00000	Averaged<-			
12 Fluoranthene	2821141	2853163	0.010	-1.13510	25.00000	Averaged			
13 Pyrene	2855480	2891284	0.010	-1.25387	25.00000	Averaged			
14 Benzo(a)Anthracene	2777049	2815165	0.010	-1.37256	25.00000	Averaged			
15 Chrysene	2748172	2769005	0.010	-0.75805	25.00000	Averaged			
16 Benzo(b)Fluoranthene	2813367	2878379	0.010	-2.31082	25.00000	Averaged			
17 Benzo(k)Fluoranthene	2813367	2878379	0.010	-2.31082	25.00000	Averaged			
18 Benzo(a)Pyrene	2772685	2865833	0.010	-3.35949	25.00000	Averaged			
19 Indo(1,2,3cd)Pyrene	2679052	2812729	0.010	-4.98973	25.00000	Averaged			
20 Dibenzo(a,h)Anthracene	2679052	2812729	0.010	-4.98973	25.00000	Averaged			
21 Benzo(g,h,i)Perylene	2777993	2913883	0.010	-4.89166	25.00000	Averaged			
M 22 Arom C11-C22	2753988	2768021	0.010	-0.50956	25.00000	Averaged			
23 Unadjusted Arom C11-C22	+++	+++	0.010	+++	25.00000	Averaged<-			
M 113 Total Surrogate Area	+++	+++	0.010	+++	25.00000	Averaged<-			

Average %D / Drift Results.

 Calculated Average %D/Drift = 6.88525
 Maximun Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b092.d
 Lab Smp Id: 1400 Client Smp ID: 1 84-12-8
 Inj Date : 05-NOV-2011 02:38
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1400*1 84-12-8
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/AROEPhmass.m
 Meth Date : 08-Nov-2011 14:38 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 92 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 Naphthalene	7.879	7.881	-0.002	137557484	50.0000	48.4
2 2-Methylnaphthalene	8.265	8.266	-0.001	115316745	50.0000	48.5
\$ 3 2-Fluorobiphenyl	8.453	8.454	-0.001	119446637	50.0000	48.6
4 Acenaphthylene	8.765	8.767	-0.002	133698611	50.0000	48.4
\$ 5 2-Bromonaphthalene	8.838	8.839	-0.001	79409288	50.0000	50.6
6 Acenaphthene	8.857	8.858	-0.001	138138949	50.0000	47.5
7 Fluorene	9.130	9.133	-0.003	136432698	50.0000	49.2
8 Phenanthrene	9.656	9.658	-0.002	137197878	50.0000	49.7
9 Anthracene	9.686	9.688	-0.002	129947975	50.0000	49.0
\$ 10 O-Terphenyl	9.818	9.823	-0.005	146258484	50.0000	49.6
12 Fluoranthene	10.323	10.328	-0.005	142658166	50.0000	50.6
13 Pyrene	10.461	10.468	-0.007	144564212	50.0000	50.6
14 Benzo(a)Anthracene	11.202	11.213	-0.011	140758266	50.0000	50.7

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
15 Chrysene	11.234	11.245	-0.011	138450237	50.0000	50.4
16 Benzo(b)Fluoranthene	12.073	12.087	-0.014	287837853	100.000	102 (M2)
17 Benzo(k)Fluoranthene	12.073	12.087	-0.014	287837853	100.000	102 (M2)
18 Benzo(a)Pyrene	12.356	12.372	-0.016	143291672	50.0000	51.7
19 Indo(1,2,3cd)Pyrene	13.609	13.631	-0.022	281272948	100.000	105 (M1)
20 Dibenzo(a,h)Anthracene	13.609	13.631	-0.022	281272948	100.000	105
21 Benzo(g,h,i)Perylene	13.982	14.000	-0.018	145694166	50.0000	52.4
M 22 Arom C11-C22				2352817860	850.000	854
M 113 Total Surrogate Area				345114409	0.00000	(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M1- Compound response manually integrated because Target system did not integrate.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Date : 05-NOV-2011 02:38

Client ID: 1 84-12-8

Sample Info: 1400x1 84-12-8

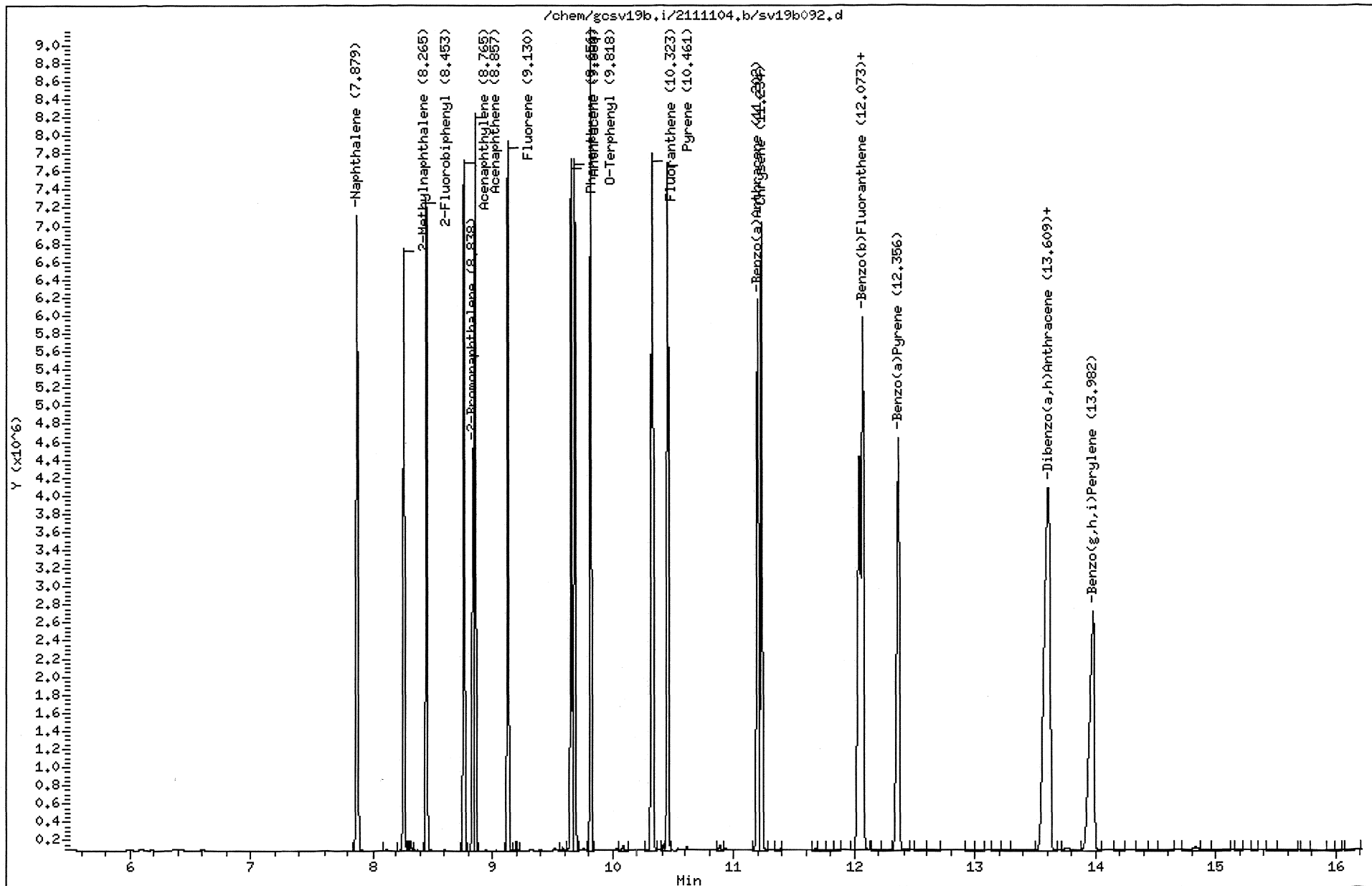
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gcsv19b.i

Operator: smh

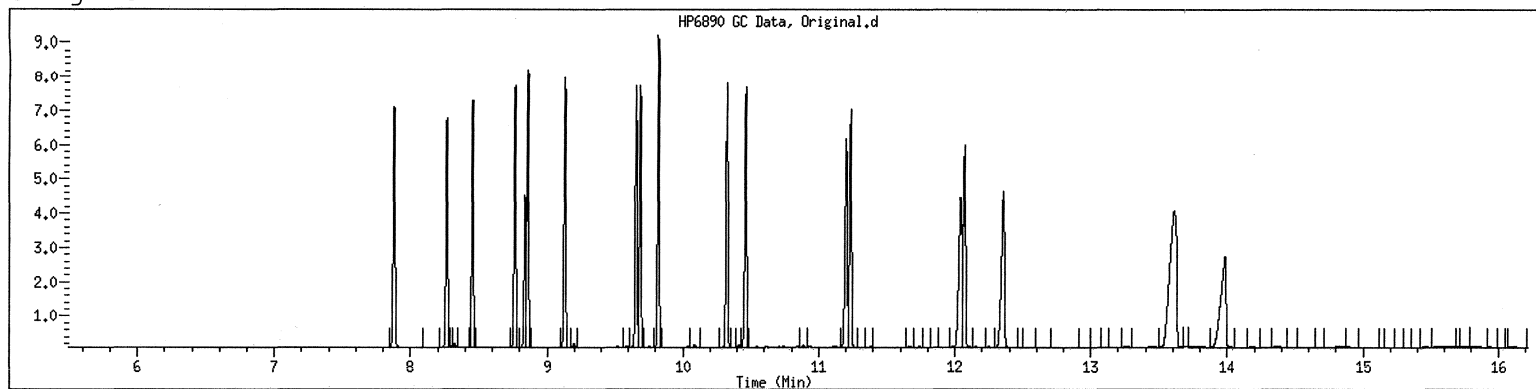
Column diameter: 0.25



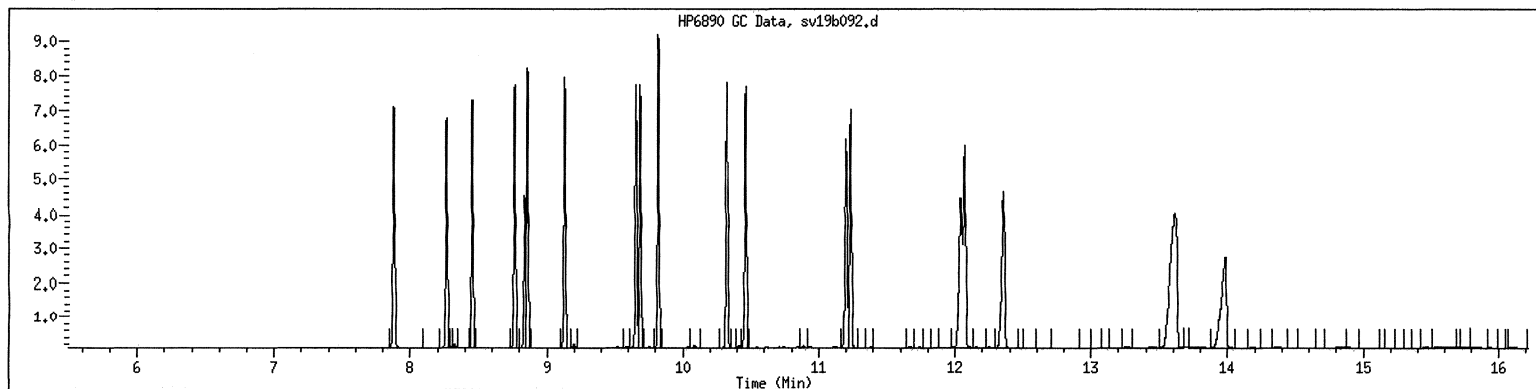
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1400 SampleType : CCALIB_3
Injection Date: 11/05/2011 02:38 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1400*1 84-12-8
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/AROEPMass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv19b.i Injection Date: 10-NOV-2011 14:13
 Lab File ID: sv19b052.d Init. Cal. Date(s): 02-NOV-2011 03-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 15:55 14:30
 Lab Sample ID: 1400 Quant Type: ESTD
 Method: /var/chem/gcsv19b.i/2111110.b/AROEPMass.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D	%DRIFT	
1 Naphthalene	2842159	2643972	0.010	6.97310	25.00000	Averaged	
2 2-Methylnaphthalene	2378988	2214133	0.010	6.92963	25.00000	Averaged	
\$ 3 2-Fluorobiphenyl	2457488	2316259	0.010	5.74686	25.00000	Averaged	
4 Acenaphthylene	2763267	2583096	0.010	6.52022	25.00000	Averaged	
\$ 5 2-Bromonaphthalene	1568778	1433504	0.010	8.62289	25.00000	Averaged	
6 Acenaphthene	2910153	2768868	0.010	4.85490	25.00000	Averaged	
7 Fluorene	2771184	2631823	0.010	5.02896	25.00000	Averaged	
8 Phenanthrene	2760684	2518615	0.010	8.76847	25.00000	Averaged	
9 Anthracene	2653997	2517693	0.010	5.13583	25.00000	Averaged	
\$ 10 O-Terphenyl	2948796	2752788	0.010	6.64704	25.00000	Averaged	
12 Fluoranthene	2821141	2509422	0.010	11.04940	25.00000	Averaged	
13 Pyrene	2855480	2647674	0.010	7.27747	25.00000	Averaged	
14 Benzo(a)Anthracene	2777049	2260450	0.010	18.60244	25.00000	Averaged	
15 Chrysene	2748172	2735898	0.010	0.44664	25.00000	Averaged	
16 Benzo(b)Fluoranthene	2813367	2461671	0.010	12.50087	25.00000	Averaged	
17 Benzo(k)Fluoranthene	2813367	2461671	0.010	12.50087	25.00000	Averaged	
18 Benzo(a)Pyrene	2772685	2613952	0.010	5.72490	25.00000	Averaged	
19 Indo(1,2,3cd)Pyrene	2679052	2407432	0.010	10.13865	25.00000	Averaged	
20 Dibenzo(a,h)Anthracene	2679052	2407432	0.010	10.13865	25.00000	Averaged	
21 Benzo(g,h,i)Perylene	2777993	2693272	0.010	3.04975	25.00000	Averaged	
M 22 Arom C11-C22	2753988	2533945	0.010	7.98995	25.00000	Averaged	

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 2.93784
 Maximun Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111110.b/sv19b052.d
 Lab Smp Id: 1400 Client Smp ID: 1 84-12-8
 Inj Date : 10-NOV-2011 14:13
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1400*1 84-12-8
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111110.b/AROEPhmass.m
 Meth Date : 11-Nov-2011 14:10 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 52 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: cal.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 Naphthalene	7.875	7.880	-0.005	132198609	50.0000	46.5
2 2-Methylnaphthalene	8.262	8.265	-0.003	110706672	50.0000	46.5
\$ 3 2-Fluorobiphenyl	8.450	8.454	-0.004	115812971	50.0000	47.1
4 Acenaphthylene	8.763	8.766	-0.003	129154777	50.0000	46.7
\$ 5 2-Bromonaphthalene	8.836	8.838	-0.002	71675211	50.0000	45.7
6 Acenaphthene	8.855	8.858	-0.003	138443389	50.0000	47.6
7 Fluorene	9.129	9.132	-0.003	131591129	50.0000	47.5
8 Phenanthrene	9.659	9.657	0.002	125930741	50.0000	45.6
9 Anthracene	9.689	9.688	0.001	125884626	50.0000	47.4
\$ 10 O-Terphenyl	9.823	9.822	0.001	137639397	50.0000	46.7
12 Fluoranthene	10.333	10.327	0.006	125471080	50.0000	44.5
13 Pyrene	10.475	10.467	0.008	132383678	50.0000	46.4
14 Benzo(a)Anthracene	11.223	11.223	0.000	113022488	50.0000	40.7
15 Chrysene	11.255	11.250	0.005	136794887	50.0000	49.8

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
-----	--	-----	-----	-----	-----	-----
16 Benzo(b) Fluoranthene	12.100	12.085	0.015	246167136	100.000	87.5 (M2)
17 Benzo(k) Fluoranthene	12.100	12.085	0.015	246167136	100.000	87.5 (M2)
18 Benzo(a) Pyrene	12.386	12.370	0.016	130697590	50.0000	47.1
19 Indo(1,2,3cd) Pyrene	13.644	13.598	0.046	240743229	100.000	89.9 (M1)
20 Dibenzo(a,h) Anthracene	13.644	13.638	0.006	240743229	100.000	89.9
21 Benzo(g,h,i) Perylene	14.015	13.997	0.018	134663577	50.0000	48.5
M 22 Arom C11-C22				2153853608	850.000	782

QC Flag Legend

- M1- Compound response manually integrated because Target system did not integrate.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Date : 10-NOV-2011 14:13

Client ID: 1 84-12-8

Sample Info: 1400x1 84-12-8

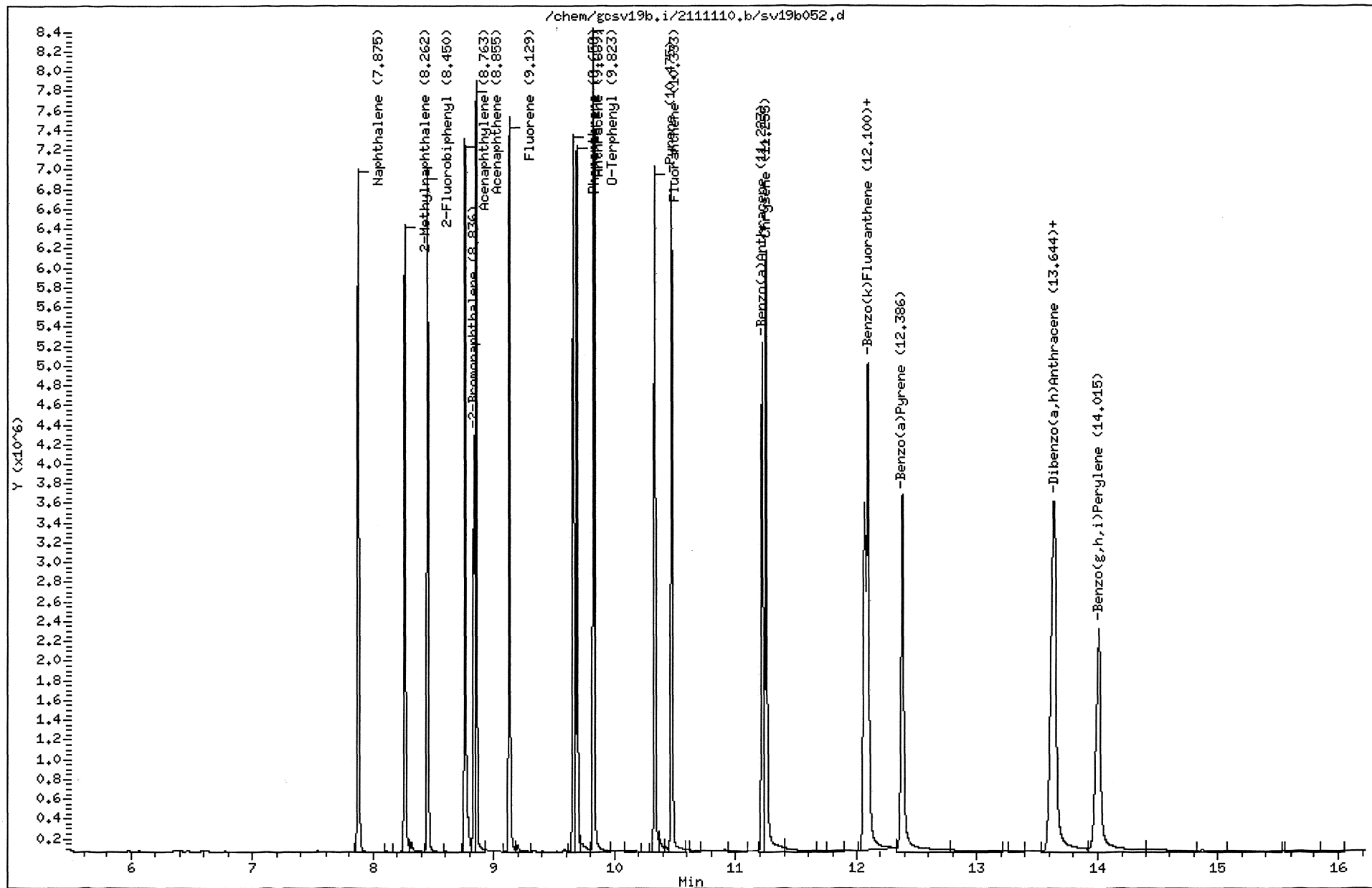
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gcsv19b.i

Operator: smh

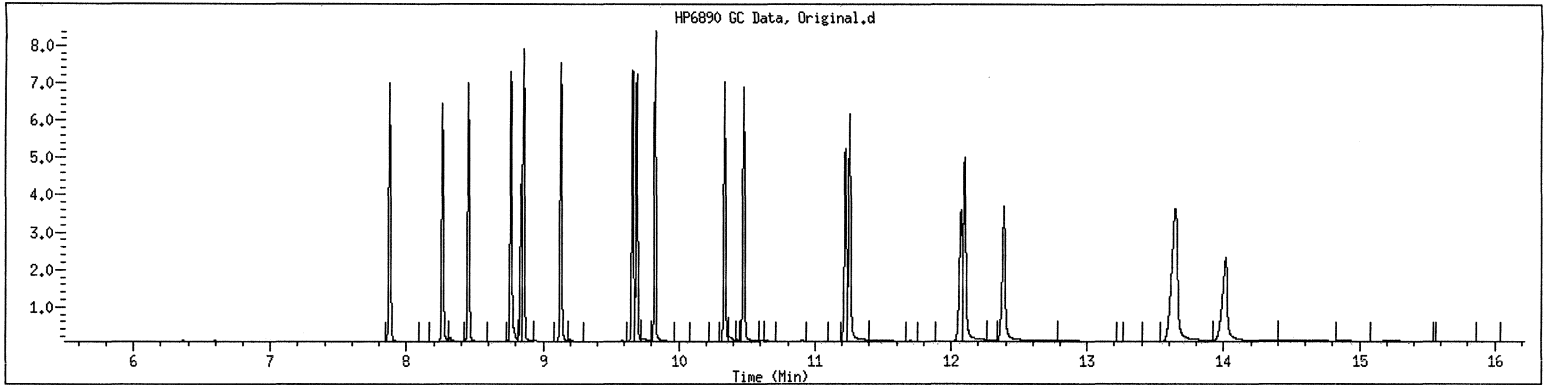
Column diameter: 0.25



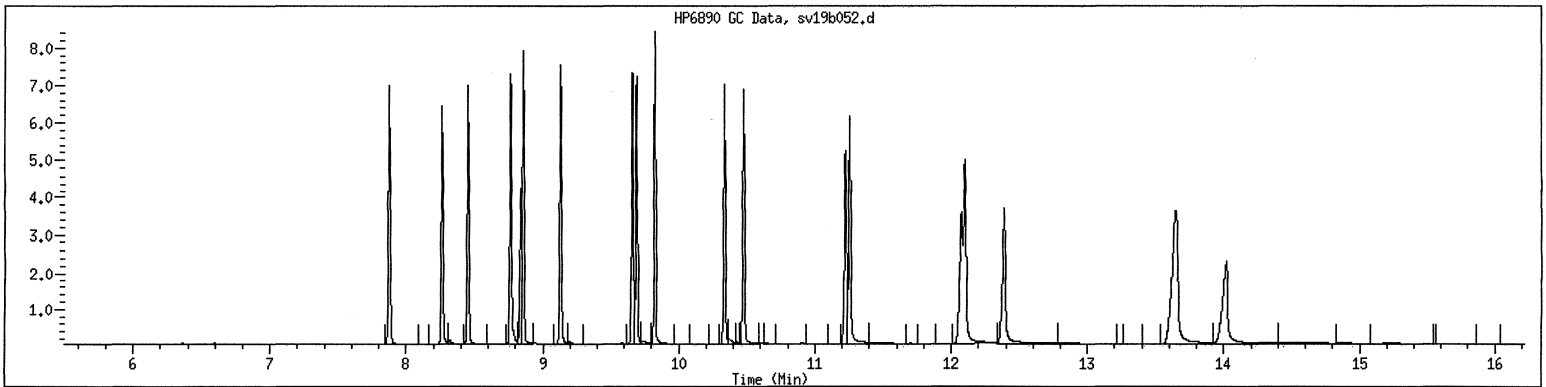
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1400 SampleType : CCALIB_3
Injection Date: 11/10/2011 14:13 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1400*1 84-12-8
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/AROEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: cal

Original



Final



GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv19b.i Injection Date: 10-NOV-2011 19:16
 Lab File ID: sv19b064.d Init. Cal. Date(s): 02-NOV-2011 03-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 15:55 14:30
 Lab Sample ID: 1400 Quant Type: ESTD
 Method: /var/chem/gcsv19b.i/2111110.b/AROEPHmass.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
1 Naphthalene	2842159	2638530	0.010	7.16458	25.00000	Averaged	
2 2-Methylnaphthalene	2378988	2227337	0.010	6.37462	25.00000	Averaged	
\$ 3 2-Fluorobiphenyl	2457488	2309148	0.010	6.03623	25.00000	Averaged	
4 Acenaphthylene	2763267	2609326	0.010	5.57096	25.00000	Averaged	
\$ 5 2-Bromonaphthalene	1568778	1541377	0.010	1.74669	25.00000	Averaged	
6 Acenaphthene	2910153	2666069	0.010	8.38733	25.00000	Averaged	
7 Fluorene	2771184	2646356	0.010	4.50450	25.00000	Averaged	
8 Phenanthrene	2760684	2629050	0.010	4.76820	25.00000	Averaged	
9 Anthracene	2653997	2541899	0.010	4.22377	25.00000	Averaged	
\$ 10 O-Terphenyl	2948796	2777283	0.010	5.81637	25.00000	Averaged	
12 Fluoranthene	2821141	2690287	0.010	4.63832	25.00000	Averaged	
13 Pyrene	2855480	2726104	0.010	4.53079	25.00000	Averaged	
14 Benzo(a)Anthracene	2777049	2573062	0.010	7.34547	25.00000	Averaged	
15 Chrysene	2748172	2646508	0.010	3.69933	25.00000	Averaged	
16 Benzo(b)Fluoranthene	2813367	2638572	0.010	6.21302	25.00000	Averaged	
17 Benzo(k)Fluoranthene	2813367	2638572	0.010	6.21302	25.00000	Averaged	
18 Benzo(a)Pyrene	2772685	2658760	0.010	4.10883	25.00000	Averaged	
19 Indo(1,2,3cd)Pyrene	2679052	2591557	0.010	3.26591	25.00000	Averaged	
20 Dibenzo(a,h)Anthracene	2679052	2591557	0.010	3.26591	25.00000	Averaged	
21 Benzo(g,h,i)Perylene	2777993	2748023	0.010	1.07885	25.00000	Averaged	
M 22 Arom C11-C22	2753988	2615386	0.010	5.03275	25.00000	Averaged	

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 2.93784
 Maximun Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111110.b/sv19b064.d
Lab Smp Id: 1400 Client Smp ID: 1 84-12-8
Inj Date : 10-NOV-2011 19:16
Operator : smh Inst ID: gcsv19b.i
Smp Info : 1400*1 84-12-8
Misc Info :
Comment :
Method : /var/chem/gcsv19b.i/2111110.b/AROEPhmass.m
Meth Date : 11-Nov-2011 14:10 dlb Quant Type: ESTD
Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
Als bottle: 64 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: cal.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS						
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (UG/ML)	ON-COL (UG/ML)	
1 Naphthalene	7.875	7.880	-0.005	131926498	50.0000	46.4	
2 2-Methylnaphthalene	8.262	8.265	-0.003	111366853	50.0000	46.8	
\$ 3 2-Fluorobiphenyl	8.450	8.454	-0.004	115457412	50.0000	47.0	
4 Acenaphthylene	8.763	8.766	-0.003	130466308	50.0000	47.2	
\$ 5 2-Bromonaphthalene	8.836	8.838	-0.002	77068827	50.0000	49.1	
6 Acenaphthene	8.856	8.858	-0.002	133303433	50.0000	45.8	
7 Fluorene	9.129	9.132	-0.003	132317824	50.0000	47.7	
8 Phenanthrene	9.657	9.657	0.000	131452475	50.0000	47.6	
9 Anthracene	9.688	9.688	0.000	127094930	50.0000	47.9	
\$ 10 O-Terphenyl	9.821	9.822	-0.001	138864147	50.0000	47.1	
12 Fluoranthene	10.329	10.327	0.002	134514358	50.0000	47.7	
13 Pyrene	10.469	10.467	0.002	136305219	50.0000	47.7	
14 Benzo(a)Anthracene	11.214	11.223	-0.009	128653078	50.0000	46.3	
15 Chrysene	11.247	11.250	-0.003	132325413	50.0000	48.2	

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
16 Benzo(b)Fluoranthene	12.089	12.085	0.004	263857178	100.000	93.8 (M2)
17 Benzo(k)Fluoranthene	12.089	12.085	0.004	263857178	100.000	93.8 (M2)
18 Benzo(a)Pyrene	12.374	12.370	0.004	132938020	50.0000	47.9
19 Indo(1,2,3cd)Pyrene	13.629	13.598	0.031	259155661	100.000	96.7 (M1)
20 Dibenzo(a,h)Anthracene	13.629	13.638	-0.009	259155661	100.000	96.7
21 Benzo(g,h,i)Perylene	14.000	13.997	0.003	137401151	50.0000	49.5
M 22 Arom C11-C22				2223078399	850.000	807

QC Flag Legend

- M1- Compound response manually integrated because Target system did not integrate.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Date : 10-NOV-2011 19:16

Client ID: 1 84-12-8

Sample Info: 1400*1 84-12-8

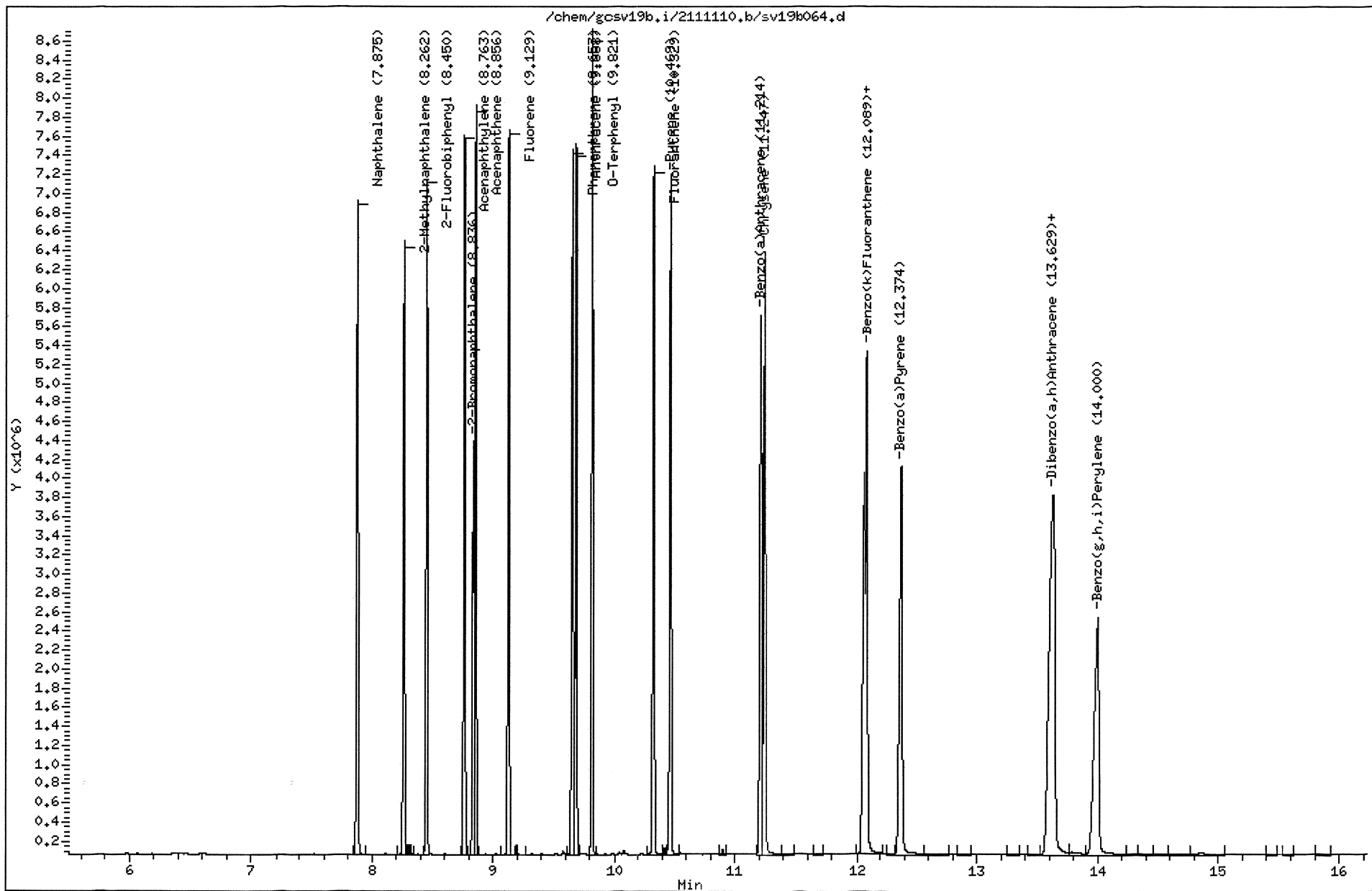
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gcsv19b.i

Operator: smh

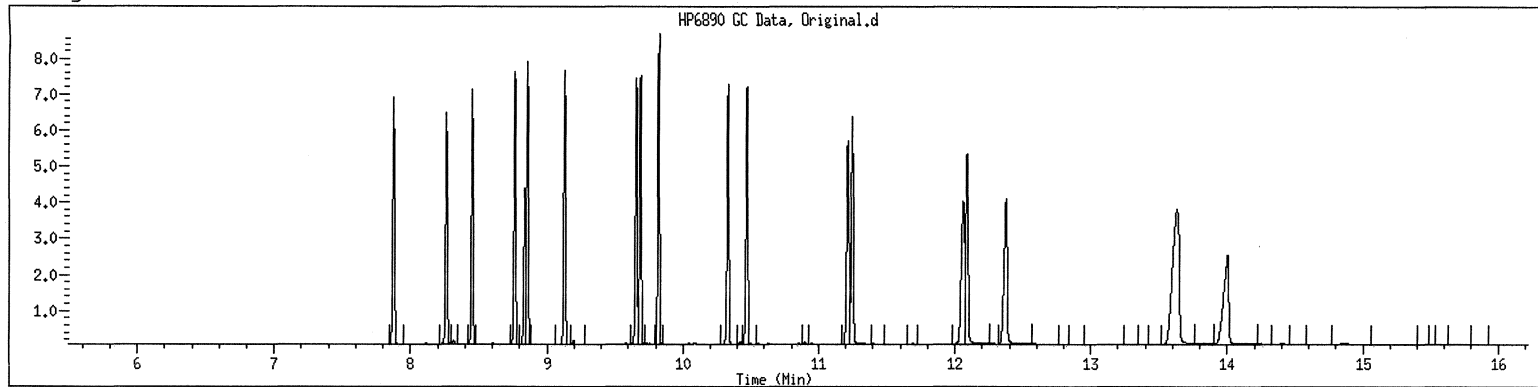
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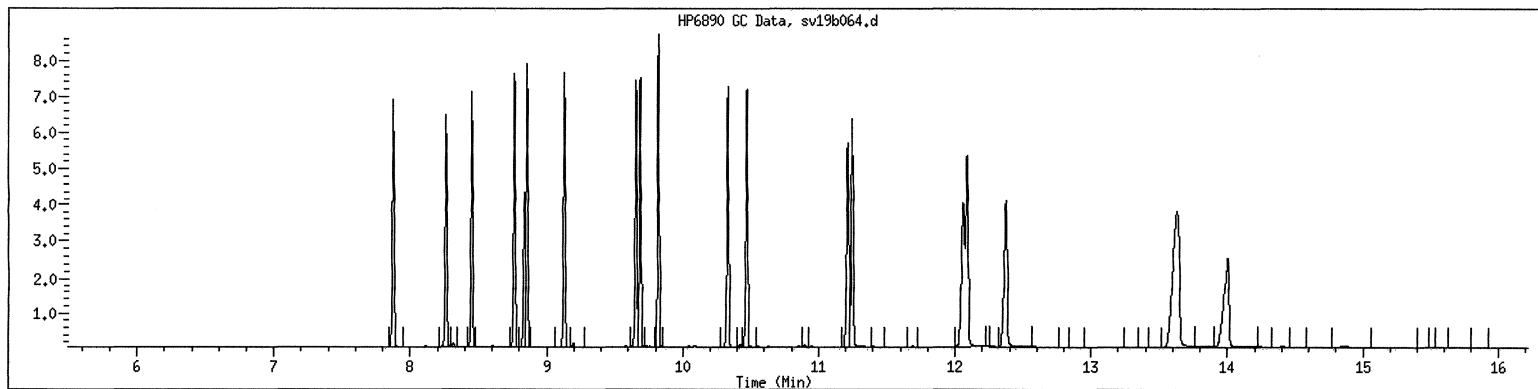
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1400 SampleType : CCALIB_3
Injection Date: 11/10/2011 19:16 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1400*1 84-12-8
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/AROEPMass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: cal

Original



Final



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: MB1002043
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211110257
 Sample wt/vol: 1000 Units: mL Lab Sample ID: 1002043
 Level: (low/med) LOW Date Collected: _____ Time: _____
 % Moisture: _____ decanted: (Y/N) _____ Date Received: _____
 GC Column: DB-5MS-30M ID: .25 (mm) Date Extracted: 11/02/11
 Concentrated Extract Volume: 2000 (µL) Date Analyzed: 11/04/11 Time: 1118
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: SMH
 Injection Volume: 1 (µL) Prep Method: MASS EPH
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSEPH
 Prep Batch: 468306 Analytical Batch: 468719 Sulfur Cleanup: (Y/N) N Instrument ID: GCS19B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111104/sv19b054

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCSV-02-22	C11-C22 Aromatics	42.1	U	42.1	42.1	100
GCSV-02-23	C9-C18 Aliphatic Hydrocarbons	21.8	U	21.8	21.8	100
GCSV-02-24	C19-C36 Aliphatic Hydrocarbons	60.0	U	31.3	60.0	100

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b054.d
 Lab Smp Id: 1002043 Client Smp ID: 1 84-15-4
 Inj Date : 04-NOV-2011 11:18
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1002043*1 mb w
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m
 Meth Date : 08-Nov-2011 14:38 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 54
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
\$ 3 2-Fluorobiphenyl	8.450	8.454	-0.004	40311135	16.4034	32.8
\$ 5 2-Bromonaphthalene	8.837	8.839	-0.002	29205418	18.6167	37.2
\$ 10 O-Terphenyl	9.836	9.823	0.013	46231712	15.6782	31.4
\$ 11 Chloro-octadecane	10.186	10.174	0.012	43871918	16.0146	32.0
M 113 Total Surrogate Area				159620183		(a)

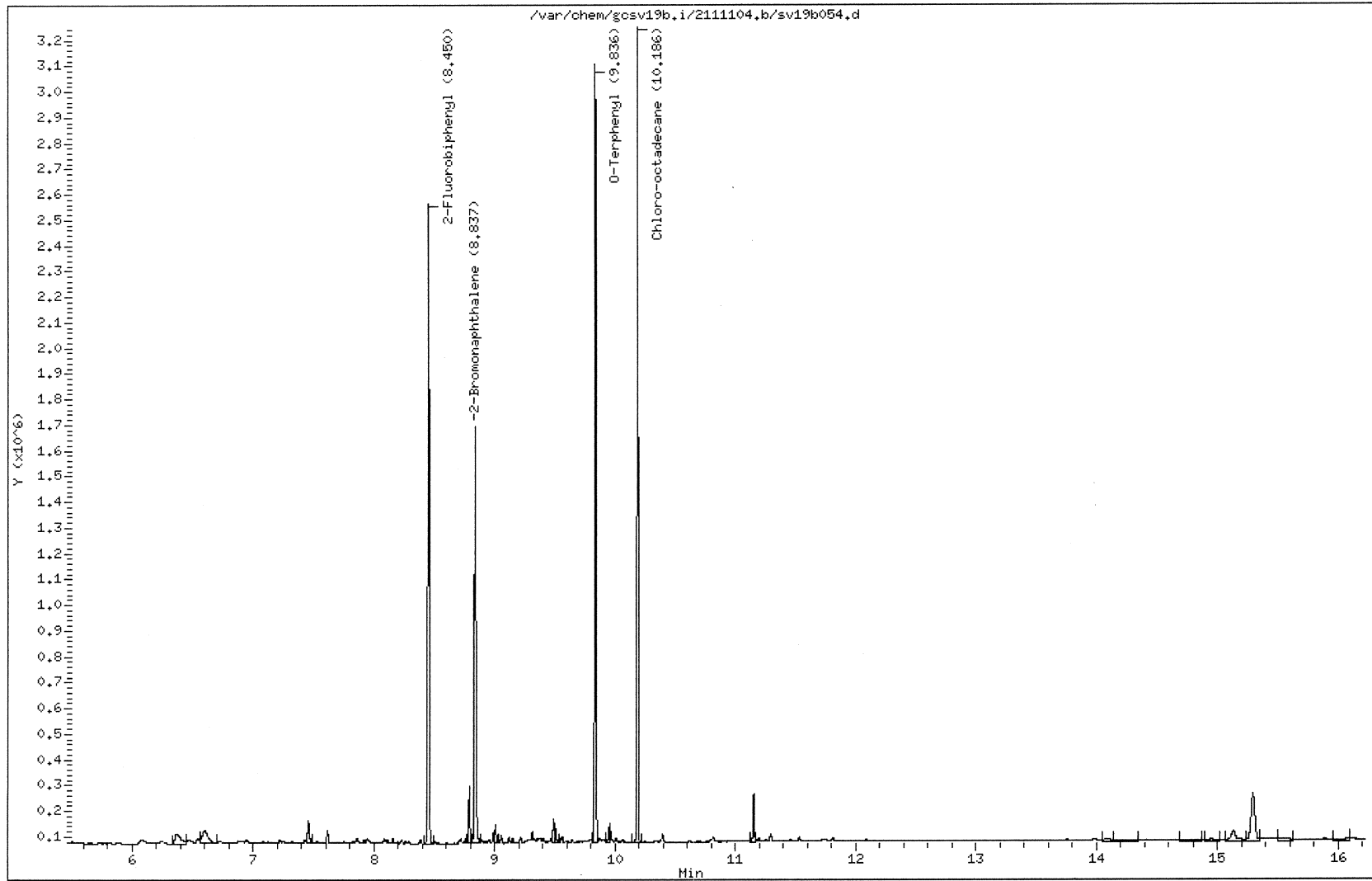
QC Flag Legend

a - Target compound detected but, quantitated amount
 Below Limit Of Quantitation (BLOQ).

Data File: /var/chem/gcsv19b.i/2111104.b/sv19b054.d
Date : 04-NOV-2011 11:18
Client ID: 1 84-15-4
Sample Info: 1002043x1 mb w
Volume Injected (uL): 1.0
Column phase: DB-5MS-30M

Page 1

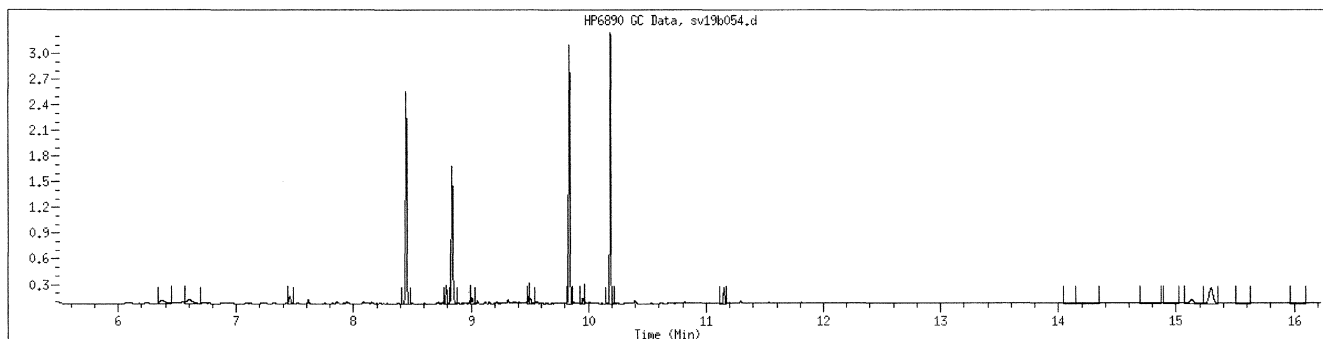
Instrument: gcsv19b.i
Operator: smh
Column diameter: 0.25



211110257 143

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1002043 SampleType : SAMPLE
Injection Date: 11/04/2011 11:18 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1002043*1 mb w
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/AROEPhmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b055.d
Lab Smp Id: 1002043 Client Smp ID: 1 mb w
Inj Date : 04-NOV-2011 11:42
Operator : smh Inst ID: gcsv19b.i
Smp Info : 1002043*1 mb w
Misc Info :
Comment :
Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
Meth Date : 08-Nov-2011 13:36 smh Quant Type: ESTD
Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
Als bottle: 55
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ALmasseph.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
10 C-18	9.005	9.504	-0.499	29350351	9.71451	19.4 (M1)
M 11 Alip C9-C18				29350351	9.71451	19.4
114 C-36	10.173	15.144	-4.971	37956568	12.9738	25.9 (AM1)
M 24 Alip C19-C36				37956568	12.9738	25.9

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M1- Compound response manually integrated because Target system did not integrate.

Data File: /var/chem/gosv19b.i/2111104.b/sv19b055.d

Page 1

Date : 04-NOV-2011 11:42

Client ID: 1 mb w

Instrument: gosv19b.i

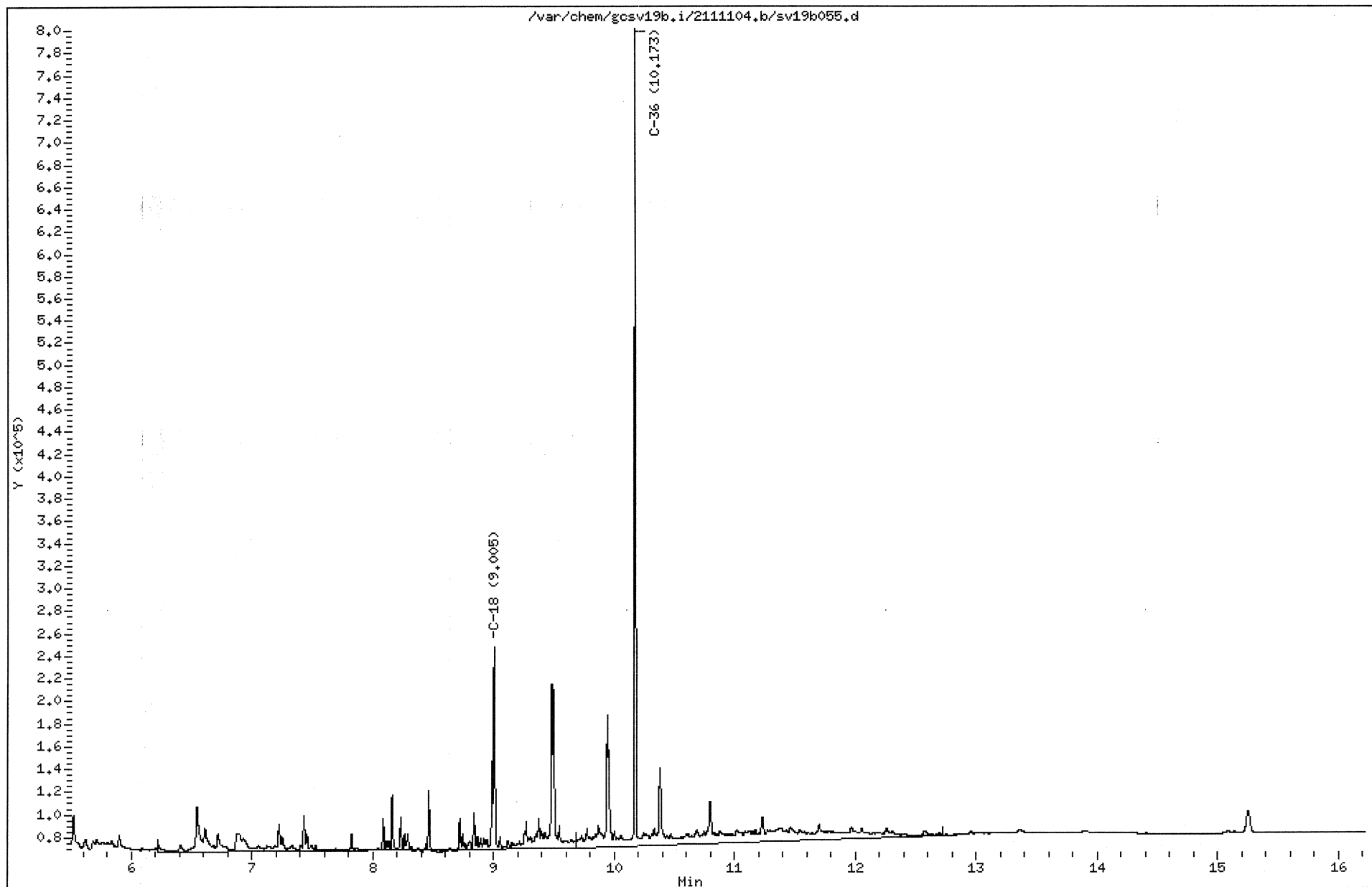
Sample Info: 1002043*1 mb w

Volume Injected (uL): 1.0

Operator: smh

Column phase: DB-5MS-30M

Column diameter: 0.25

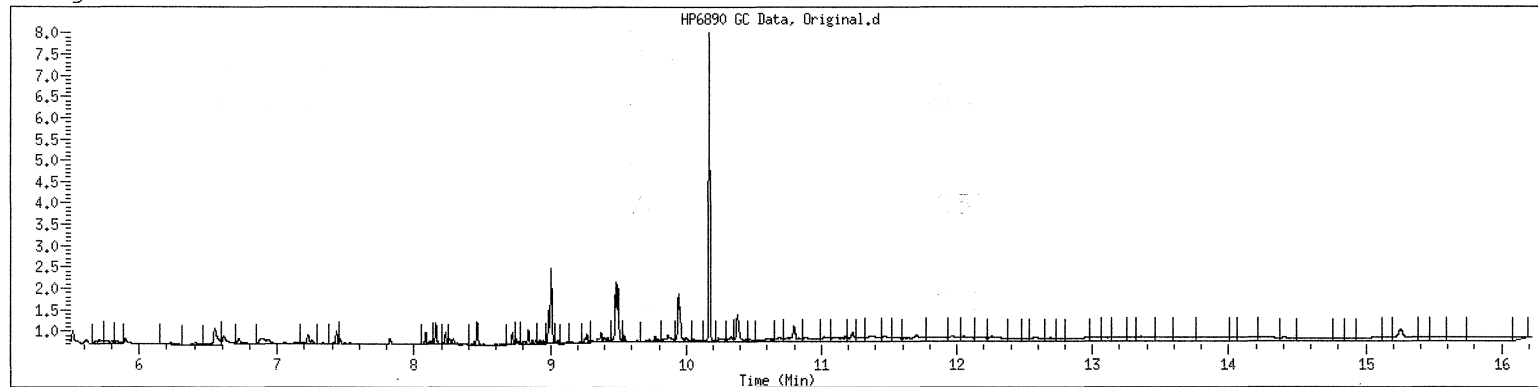


211110257 146

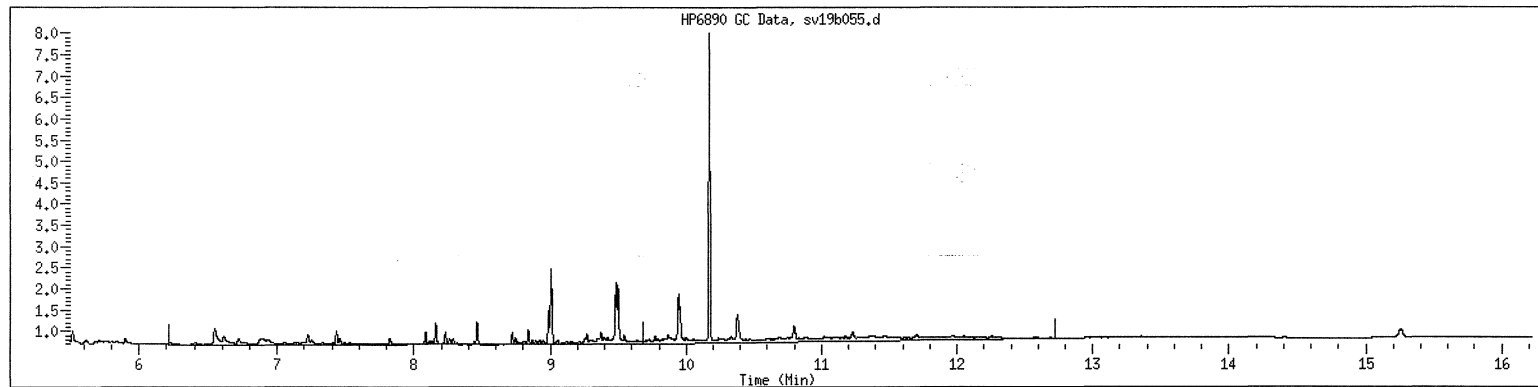
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1002043 SampleType : SAMPLE
Injection Date: 11/04/2011 11:42 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1002043*1 mb w
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph

Original



Final



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: MB1004104
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211110257
 Sample wt/vol: 1000 Units: mL Lab Sample ID: 1004104
 Level: (low/med) LOW Date Collected: _____ Time: _____
 % Moisture: _____ decanted: (Y/N) _____ Date Received: _____
 GC Column: DB-5MS-30M ID: .25 (mm) Date Extracted: 11/08/11
 Concentrated Extract Volume: 2000 (µL) Date Analyzed: 11/10/11 Time: 1515
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: SMH
 Injection Volume: 1 (µL) Prep Method: MASS EPH
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSEPH
 Prep Batch: 468721 Analytical Batch: 469140 Sulfur Cleanup: (Y/N) N Instrument ID: GCS19B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111110/sv19b054

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCSV-02-22	C11-C22 Aromatics	42.1	U	42.1	42.1	100
GCSV-02-23	C9-C18 Aliphatic Hydrocarbons	21.8	U	21.8	21.8	100
GCSV-02-24	C19-C36 Aliphatic Hydrocarbons	60.0	U	31.3	60.0	100

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111110.b/sv19b054.d
Lab Smp Id: 1004104 Client Smp ID: 1 MB
Inj Date : 10-NOV-2011 15:15
Operator : smh Inst ID: gcsv19b.i
Smp Info : 1004104*1 MB
Misc Info :
Comment :
Method : /var/chem/gcsv19b.i/2111110.b/AROEPMass.m
Meth Date : 11-Nov-2011 15:43 dlb Quant Type: ESTD
Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
Als bottle: 54
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (UG/ML)	FINAL (ug/L)
\$ 3 2-Fluorobiphenyl	8.448	8.454	-0.006	39667720	16.1416	32.3
\$ 5 2-Bromonaphthalene	8.833	8.838	-0.005	29843186	19.0232	38.0
\$ 10 O-Terphenyl	9.828	9.822	0.006	47260177	16.0269	32.1
\$ 11 Chloro-octadecane	10.176	10.158	0.018	35257119	12.8699	25.7
M 113 Total Surrogate Area				152028202		(a)

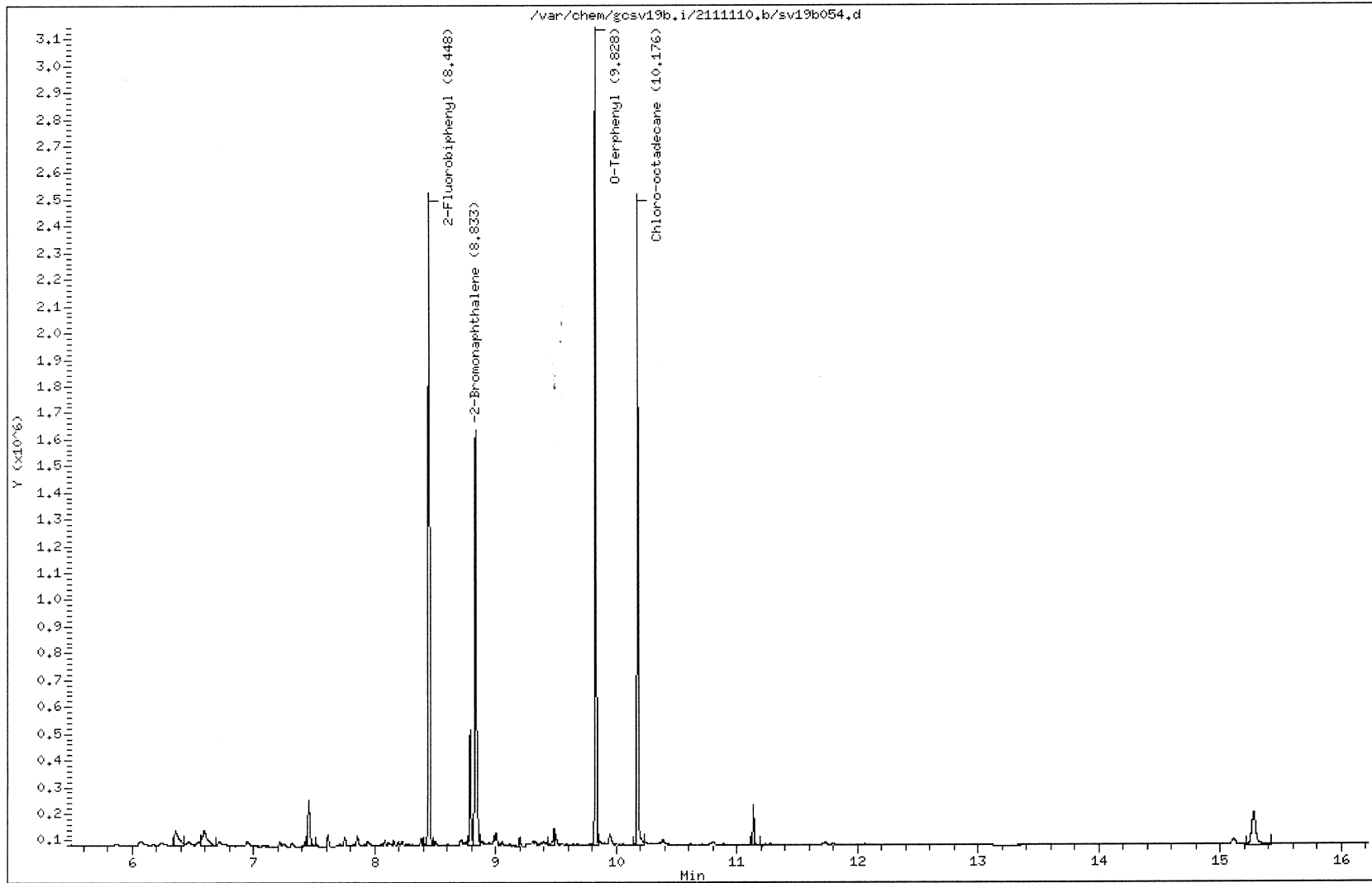
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation (BLOQ).

Data File: /var/chem/gosv19b,i/2111110,b/sv19b054.d
Date : 10-NOV-2011 15:15
Client ID: 1 MB
Sample Info: 1004104*1 MB
Volume Injected (uL): 1.0
Column phase: DB-5MS-30M

Page 1

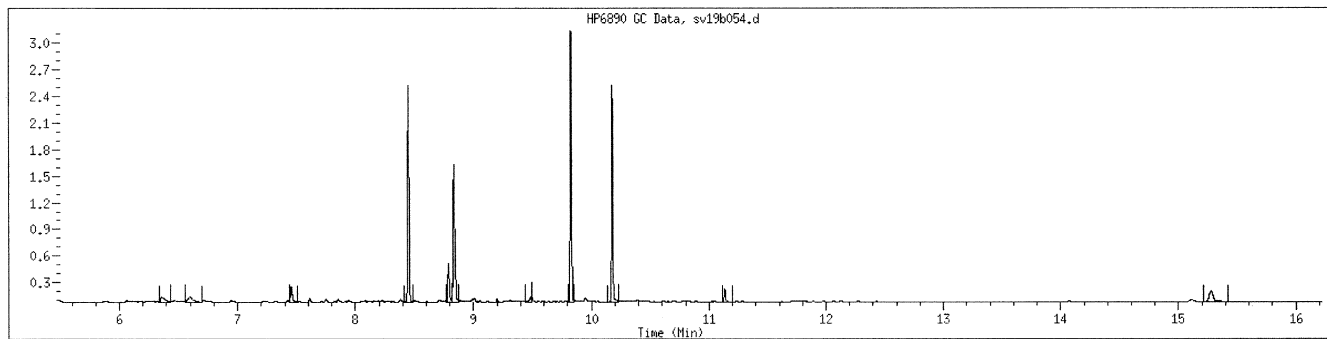
Instrument: gosv19b,i
Operator: smh
Column diameter: 0.25



211110257 150

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1004104 SampleType : SAMPLE
Injection Date: 11/10/2011 15:15 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1004104*1 MB
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/AROEPhmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111110.b/sv19b055.d
Lab Smp Id: 1004104 Client Smp ID: 1 MB
Inj Date : 10-NOV-2011 15:39
Operator : smh Inst ID: gcsv19b.i
Smp Info : 1004104*1 MB
Misc Info :
Comment :
Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
Meth Date : 11-Nov-2011 15:05 dlb Quant Type: ESTD
Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
Als bottle: 55
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: ALmasseph.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (UG/ML)	FINAL (ug/L)
\$ 15 Chlorooctadecane	10.164	10.215	-0.051	15261843	5.57087	11.1(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Date : 10-NOV-2011 15:39

Client ID: 1 MB

Sample Info: 1004104*1 MB

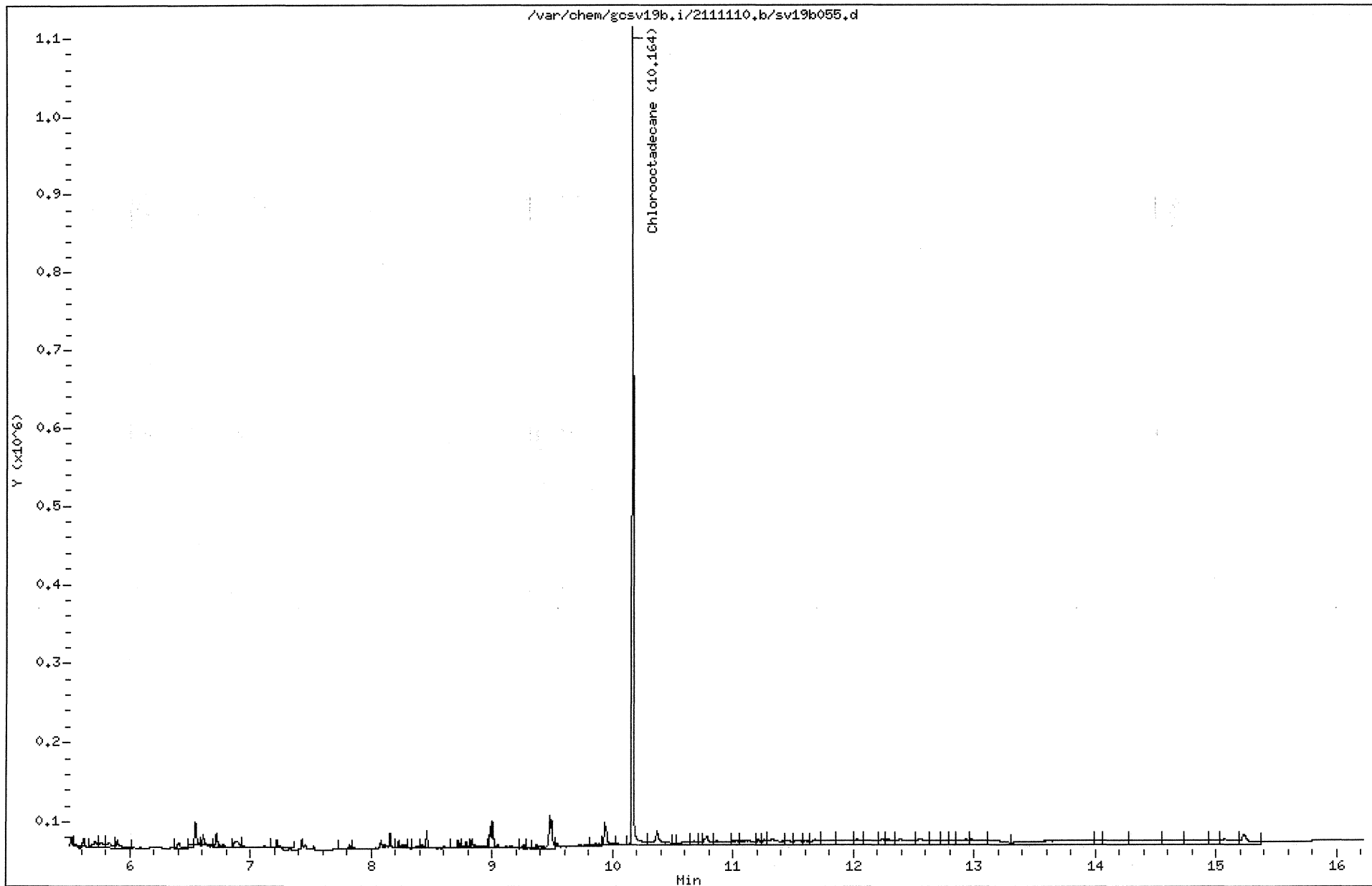
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gcsv19b.i

Operator: smh

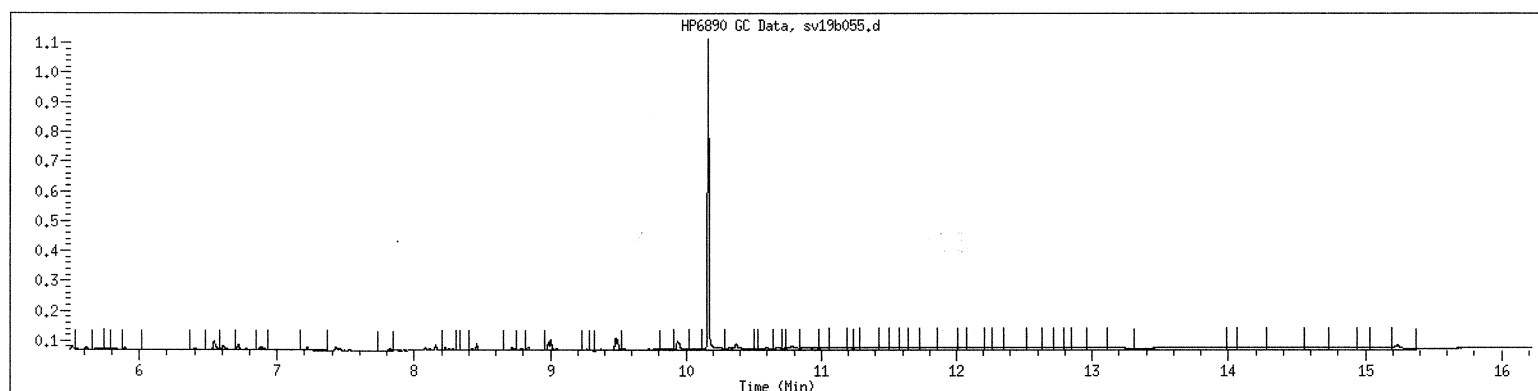
Column diameter: 0.25



211110257 153

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1004104	SampleType	: SAMPLE
Injection Date	: 11/10/2011 15:39	Instrument	: gcsv19b.i
Operator	: smh		
Sample Info	: 1004104*1 MB		
Misc Info	:		
Method	: /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m		
Dilution	: 1.00		
Matrix	: WATER		
Integrator	: HP Genie	Compound Sublist	: ALmasseph



NO MANUAL INTEGRATIONS

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: LCS1002044
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211110257
 Sample wt/vol: 1000 Units: mL Lab Sample ID: 1002044
 Level: (low/med) LOW Date Collected: _____ Time: _____
 % Moisture: _____ decanted: (Y/N) _____ Date Received: _____
 GPC Column: DB-5MS-30M ID: .25 (mm) Date Extracted: 11/02/11
 Concentrated Extract Volume: 2000 (µL) Date Analyzed: 11/04/11 Time: 1206
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: SMH
 Injection Volume: 1 (µL) Prep Method: MASS EPH
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSEPH
 Prep Batch: 468306 Analytical Batch: 468719 Sulfur Cleanup: (Y/N) N Instrument ID: GCS19B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111104/sv19b056

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCSV-02-22	C11-C22 Aromatics	164		42.1	42.1	100
GCSV-02-23	C9-C18 Aliphatic Hydrocarbons	47.3	J	21.8	21.8	100
GCSV-02-24	C19-C36 Aliphatic Hydrocarbons	128		31.3	60.0	100

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b056.d
 Lab Smp Id: 1002044 Client Smp ID: 1 lcs
 Inj Date : 04-NOV-2011 12:06
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1002044*1 lcs
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m
 Meth Date : 08-Nov-2011 14:38 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 56 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 Naphthalene	7.874	7.881	-0.007	42244447	14.8635	29.7
\$ 3 2-Fluorobiphenyl	8.450	8.454	-0.004	49564137	20.1686	40.3
\$ 5 2-Bromonaphthalene	8.834	8.839	-0.005	25190730	16.0575	32.1
6 Acenaphthene	8.853	8.858	-0.005	48565269	16.6882	33.4
9 Anthracene	9.686	9.688	-0.002	45807441	17.2598	34.5
\$ 10 O-Terphenyl	9.823	9.823	0.000	40477952	13.7269	27.5
\$ 11 Chloro-octadecane	10.167	10.174	-0.007	40322170	14.7188	29.4
13 Pyrene	10.474	10.468	0.006	45724998	16.0131	32.0
15 Chrysene	11.251	11.245	0.006	47755889	17.3773	34.8
M 22 Arom C11-C22				230098044	82.2019	164
M 113 Total Surrogate Area				155554989		(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

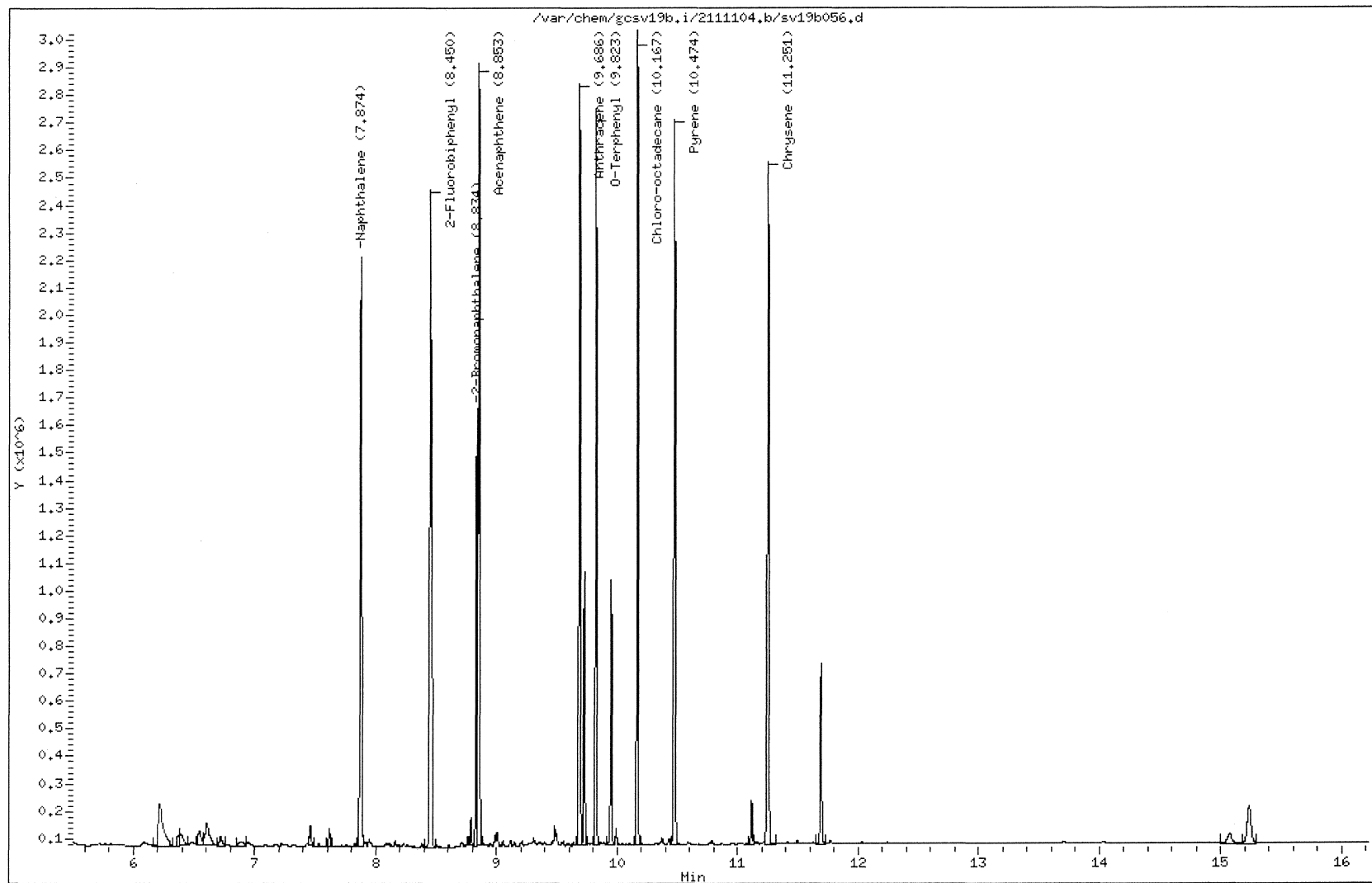
Data File: /var/chem/gosv19b.i/2111104.b/sv19b056.d
Date : 04-NOV-2011 12:06
Client ID: 1 lcs
Sample Info: 1002044x1 lcs
Volume Injected (uL): 1.0
Column phase: DB-5MS-30M

Page 1

Instrument: gosv19b.i

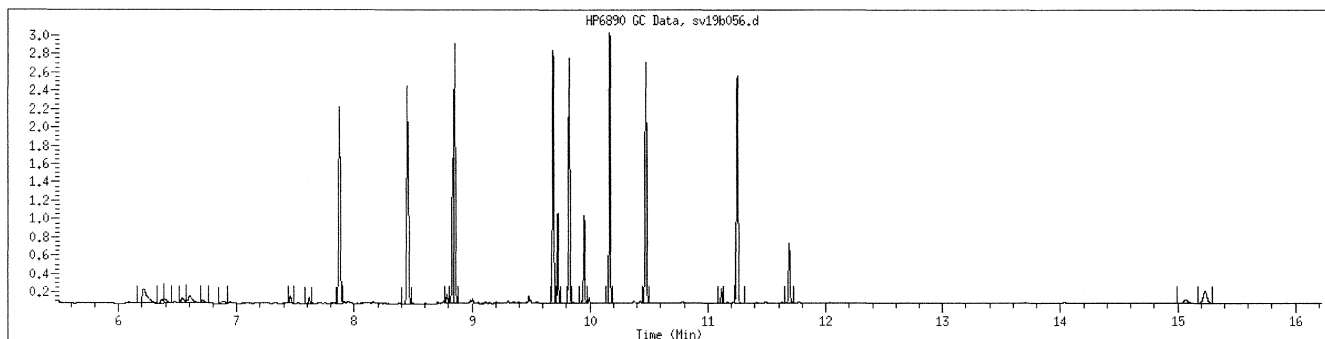
Operator: smh

Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1002044 SampleType : LCS
Injection Date: 11/04/2011 12:06 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1002044*1 lcs
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/AROEPMass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b057.d
 Lab Smp Id: 1002044 Client Smp ID: 1 lcs
 Inj Date : 04-NOV-2011 12:30
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1002044*1 lcs
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 13:36 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 57 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 C-9	6.226	6.232	-0.006	15373623	5.65344	11.3 (R)
6 C-14	8.462	8.471	-0.009	27700747	9.62454	19.2 (R)
M 11 Alip C9-C18				43074370	15.2780	30.6
12 C-19	9.725	9.774	-0.049	37123735	12.3039	24.6
13 C-20	9.948	9.957	-0.009	39242445	12.8862	25.8
\$ 15 Chlorooctadecane	10.162	10.216	-0.054	9156663	3.34236	6.68 (R)
22 C-28	11.685	11.724	-0.039	45678279	14.7540	29.5
M 24 Alip C19-C36				122044459	39.9441	79.9

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Date : 04-NOV-2011 12:30

Client ID: 1 los

Instrument: gcsv19b,i

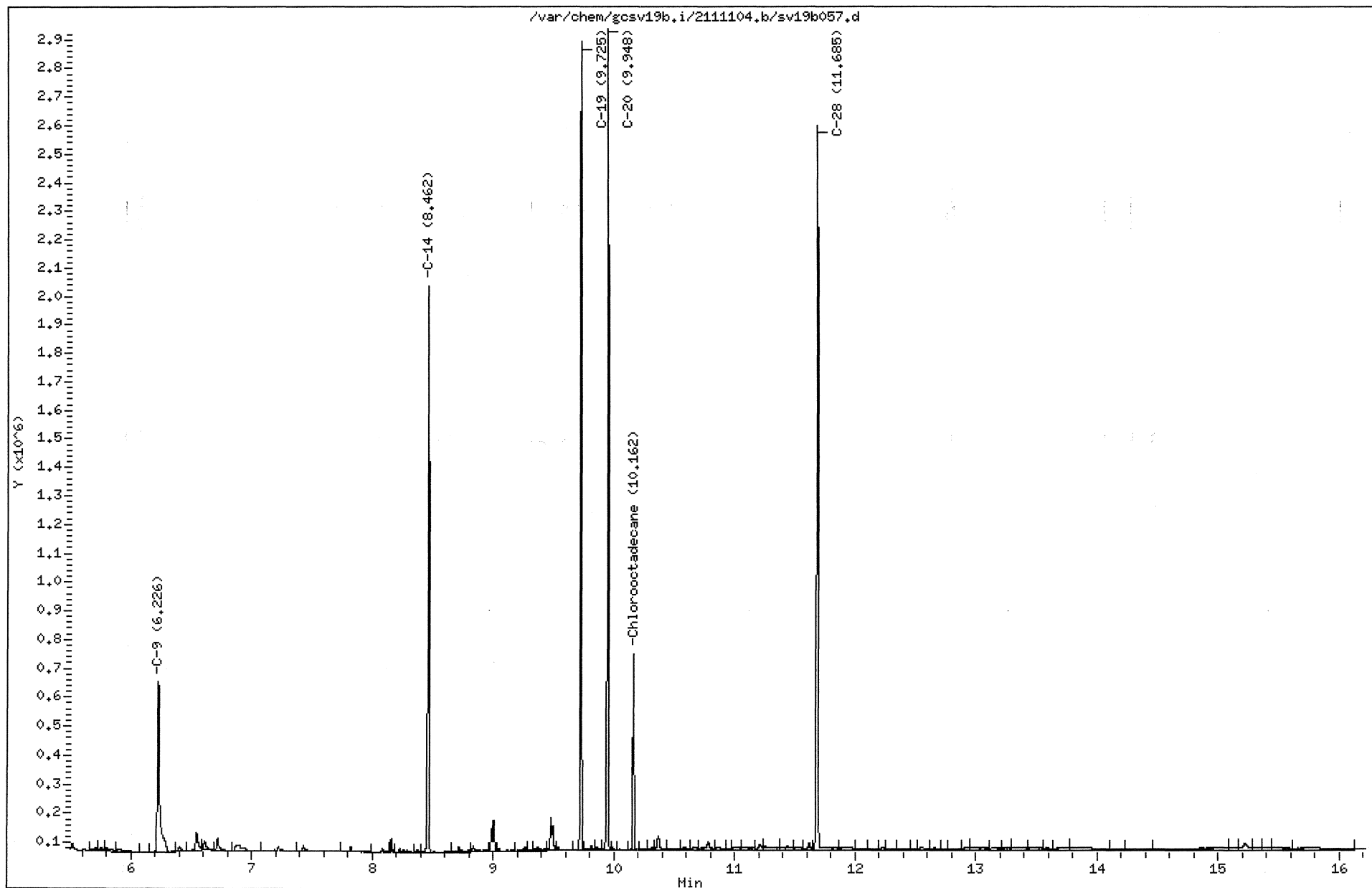
Sample Info: 1002044*1 los

Volume Injected (uL): 1.0

Operator: smh

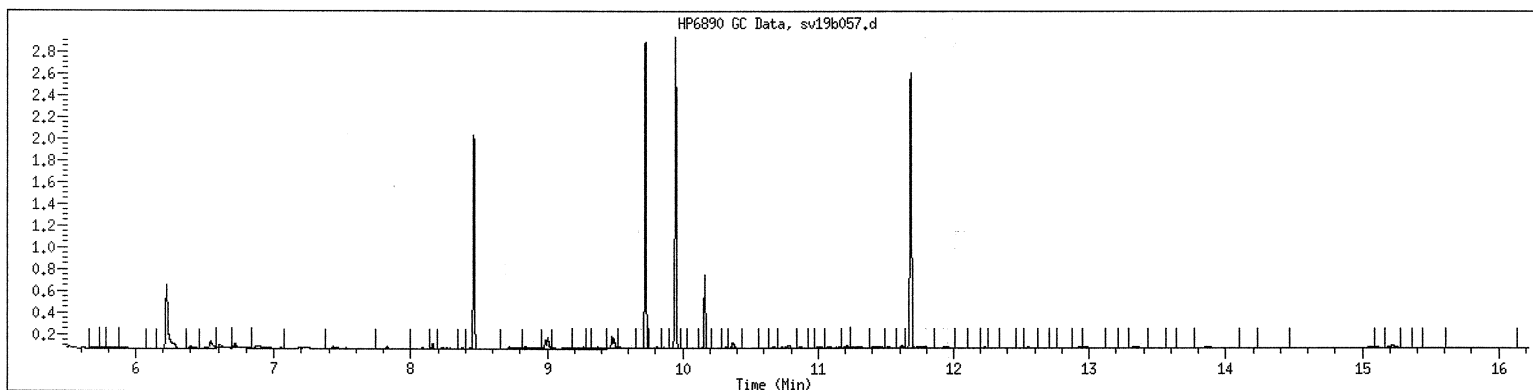
Column phase: DB-5MS-30M

Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1002044
 Injection Date: 11/04/2011 12:30
 Operator : smh
 Sample Info : 1002044*1 lcs
 Misc Info :
 Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Dilution : 1.00
 Matrix : WATER
 Integrator : HP Genie
 SampleType : LCS
 Instrument : gcsv19b.i
 Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: LCS1004105
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211110257
 Sample wt/vol: 1000 Units: mL Lab Sample ID: 1004105
 Level: (low/med) LOW Date Collected: _____ Time: _____
 % Moisture: _____ decanted: (Y/N) _____ Date Received: _____
 GC Column: DB-5MS-30M ID: .25 (mm) Date Extracted: 11/08/11
 Concentrated Extract Volume: 2000 (µL) Date Analyzed: 11/10/11 Time: 1603
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: SMH
 Injection Volume: 1 (µL) Prep Method: MASS EPH
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSEPH
 Prep Batch: 468721 Analytical Batch: 469140 Sulfur Cleanup: (Y/N) N Instrument ID: GCS19B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111110/sv19b056

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCSV-02-22	C11-C22 Aromatics	188		42.1	42.1	100
GCSV-02-23	C9-C18 Aliphatic Hydrocarbons	51.9	J	21.8	21.8	100
GCSV-02-24	C19-C36 Aliphatic Hydrocarbons	101		31.3	60.0	100

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111110.b/sv19b056.d
 Lab Smp Id: 1004105 Client Smp ID: 1 LCS
 Inj Date : 10-NOV-2011 16:03
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1004105*1 LCS
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111110.b/AROEPHmass.m
 Meth Date : 11-Nov-2011 15:43 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 56 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 Naphthalene	7.871	7.880	-0.009	47838120	16.8316	33.7
\$ 3 2-Fluorobiphenyl	8.448	8.454	-0.006	46838239	19.0594	38.1
\$ 5 2-Bromonaphthalene	8.833	8.838	-0.005	27212745	17.3465	34.7
6 Acenaphthene	8.850	8.858	-0.008	60129675	20.6620	41.3
9 Anthracene	9.682	9.688	-0.006	50757402	19.1249	38.2
\$ 10 O-Terphenyl	9.818	9.822	-0.004	48148931	16.3283	32.7
\$ 11 Chloro-octadecane	10.160	10.158	0.002	25956734	9.47499	18.9
13 Pyrene	10.465	10.467	-0.002	52673131	18.4463	36.9
15 Chrysene	11.239	11.250	-0.011	52294743	19.0289	38.1
M 22 Arom C11-C22				263693071	94.0938	188
M 113 Total Surrogate Area				148156649		(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

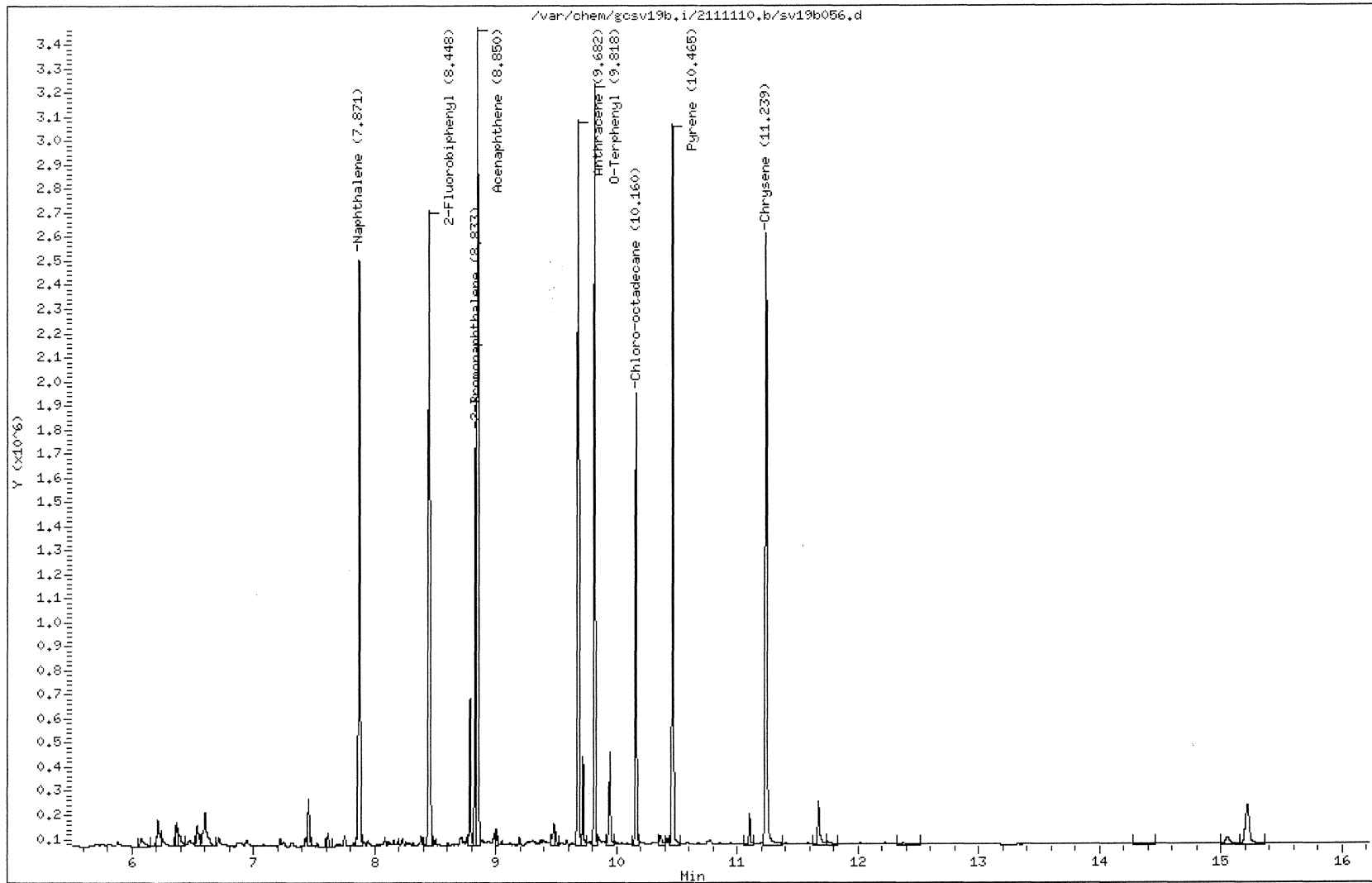
Data File: /var/chem/gosv19b.i/2111110.b/sv19b056.d
Date : 10-NOV-2011 16:03
Client ID: 1 LCS
Sample Info: 1004105*1 LCS
Volume Injected (UL): 1.0
Column phase: DB-5MS-30M

Page 1

Instrument: gosv19b.i

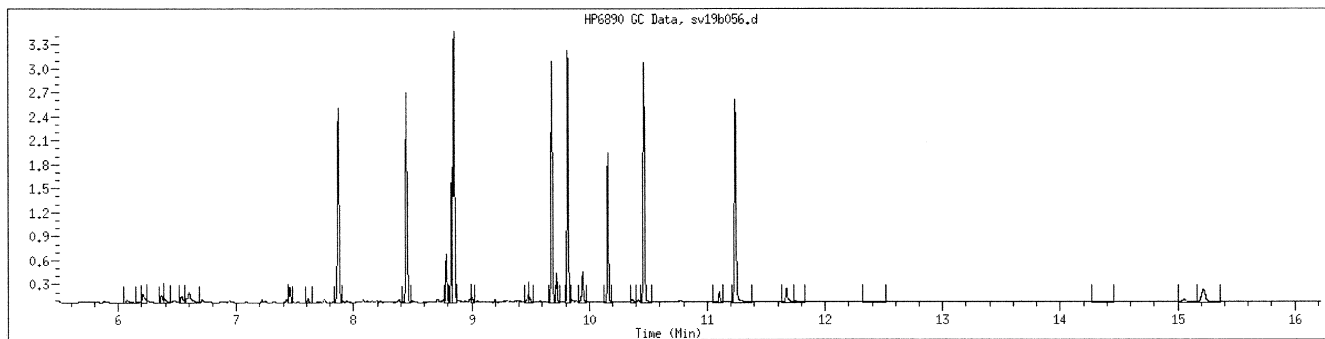
Operator: smh

Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1004105 SampleType : LCS
Injection Date: 11/10/2011 16:03 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1004105*1 LCS
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/AROEPhmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111110.b/sv19b057.d
 Lab Smp Id: 1004105 Client Smp ID: 1 LCS
 Inj Date : 10-NOV-2011 16:27
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1004105*1 LCS
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
 Meth Date : 11-Nov-2011 15:21 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 57 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 C-9	6.224	6.232	-0.008	30157800	11.0901	22.2
6 C-14	8.461	8.470	-0.009	42709583	14.8393	29.7
M 11 Alip C9-C18				72867383	25.9294	51.9
12 C-19	9.723	9.773	-0.050	51247556	16.9849	34.0
13 C-20	9.945	9.956	-0.011	52736163	17.3172	34.6
\$ 15 Chlorooctadecane	10.160	10.215	-0.055	27978107	10.2125	20.4
22 C-28	11.681	11.721	-0.040	50693086	16.3738	32.7 (H)
M 24 Alip C19-C36				154676805	50.6759	101

QC Flag Legend

H - Operator selected an alternate compound hit.

Date : 10-NOV-2011 16:27

Client ID: 1 LCS

Instrument: gosv19b.i

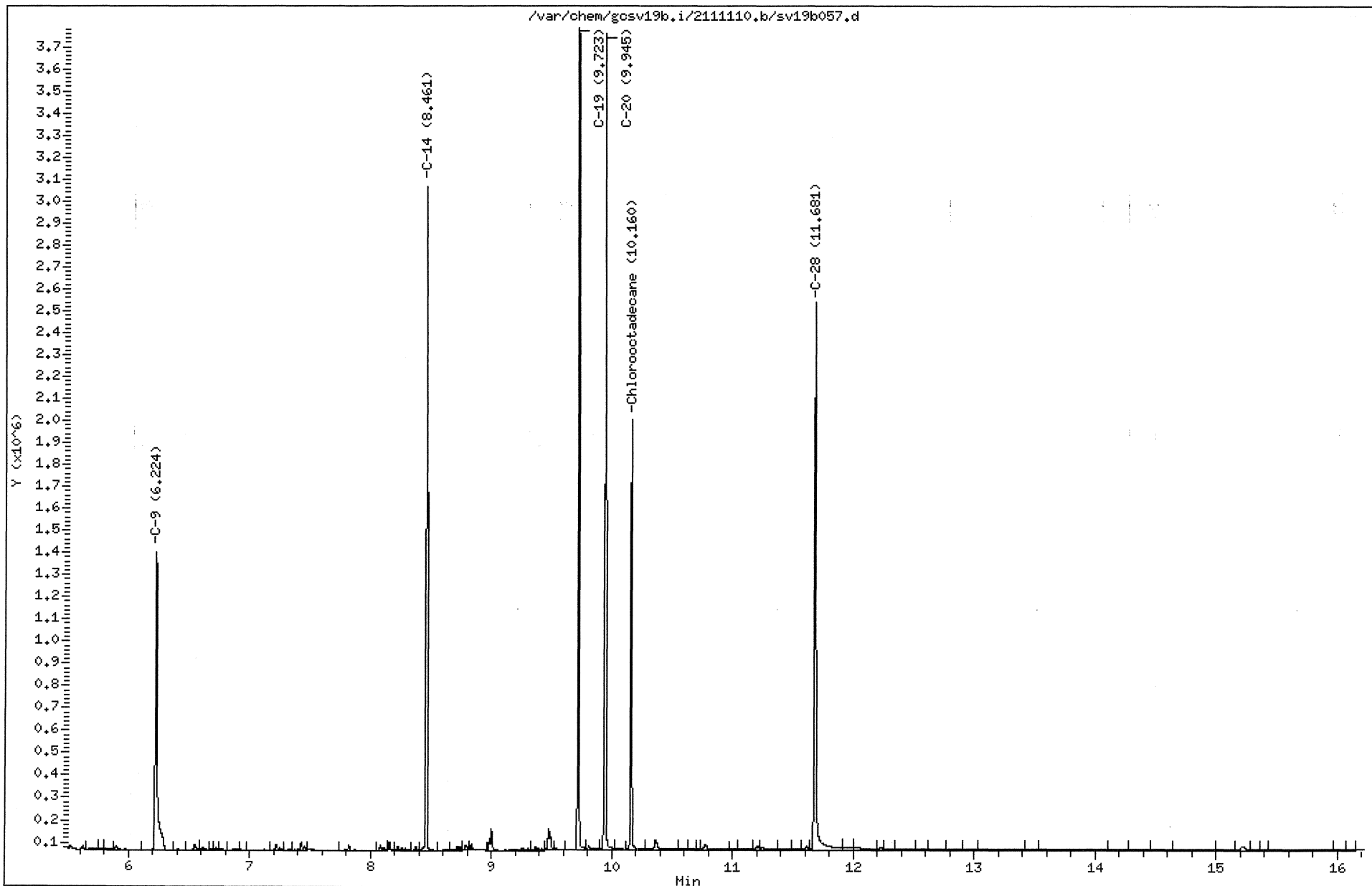
Sample Info: 1004105*1 LCS

Volume Injected (uL): 1.0

Operator: smh

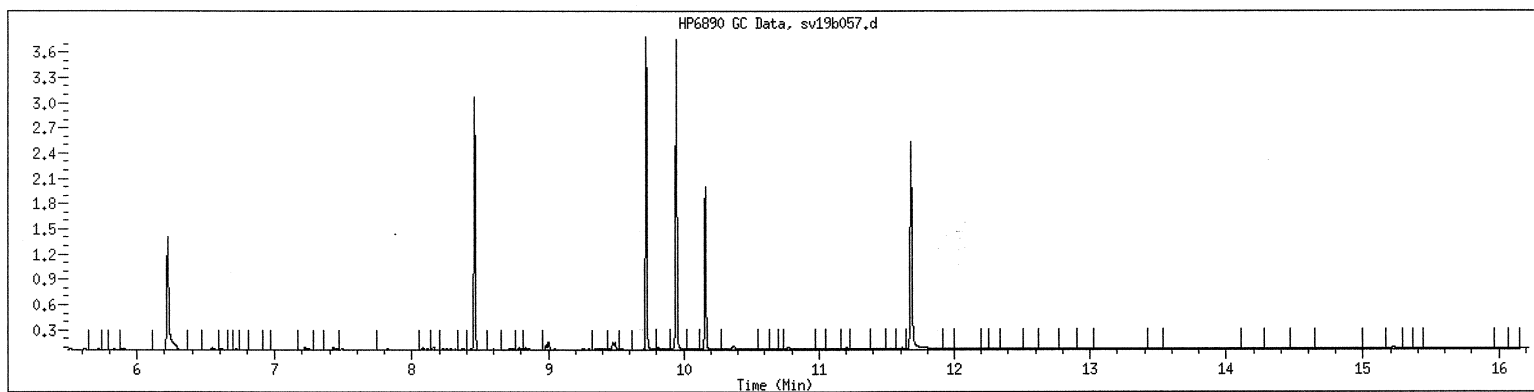
Column phase: DB-5MS-30M

Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1004105 SampleType : LCS
Injection Date: 11/10/2011 16:27 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1004105*1 LCS
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: LCSD1002045
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211110257
 Sample wt/vol: 1000 Units: mL Lab Sample ID: 1002045
 Level: (low/med) LOW Date Collected: _____ Time: _____
 % Moisture: _____ decanted: (Y/N) _____ Date Received: _____
 GC Column: DB-5MS-30M ID: .25 (mm) Date Extracted: 11/02/11
 Concentrated Extract Volume: 2000 (µL) Date Analyzed: 11/04/11 Time: 1254
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: SMH
 Injection Volume: 1 (µL) Prep Method: MASS EPH
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSEPH
 Prep Batch: 468306 Analytical Batch: 468719 Sulfur Cleanup: (Y/N) N Instrument ID: GCS19B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111104/sv19b058

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCSV-02-22	C11-C22 Aromatics	178		42.1	42.1	100
GCSV-02-23	C9-C18 Aliphatic Hydrocarbons	42.8	J	21.8	21.8	100
GCSV-02-24	C19-C36 Aliphatic Hydrocarbons	107		31.3	60.0	100

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b058.d
 Lab Smp Id: 1002045 Client Smp ID: 1 lcsd
 Inj Date : 04-NOV-2011 12:54
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1002045* 1 lcsd
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m
 Meth Date : 08-Nov-2011 14:38 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 58 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 Naphthalene	7.874	7.881	-0.007	40000849	14.0741	28.1
\$ 3 2-Fluorobiphenyl	8.450	8.454	-0.004	46349541	18.8605	37.7
\$ 5 2-Bromonaphthalene	8.835	8.839	-0.004	20673921	13.1784	26.4
6 Acenaphthene	8.853	8.858	-0.005	49744175	17.0933	34.2
9 Anthracene	9.684	9.688	-0.004	51042404	19.2323	38.5
\$ 10 O-Terphenyl	9.820	9.823	-0.003	49005695	16.6189	33.2
\$ 11 Chloro-octadecane	10.161	10.174	-0.013	19595722	7.15303	14.3 (R)
13 Pyrene	10.468	10.468	0.000	53601757	18.7715	37.5
15 Chrysene	11.241	11.245	-0.004	54372724	19.7851	39.6
M 22 Arom C11-C22				248761909	88.9563	178
M 113 Total Surrogate Area				135624879		(a)

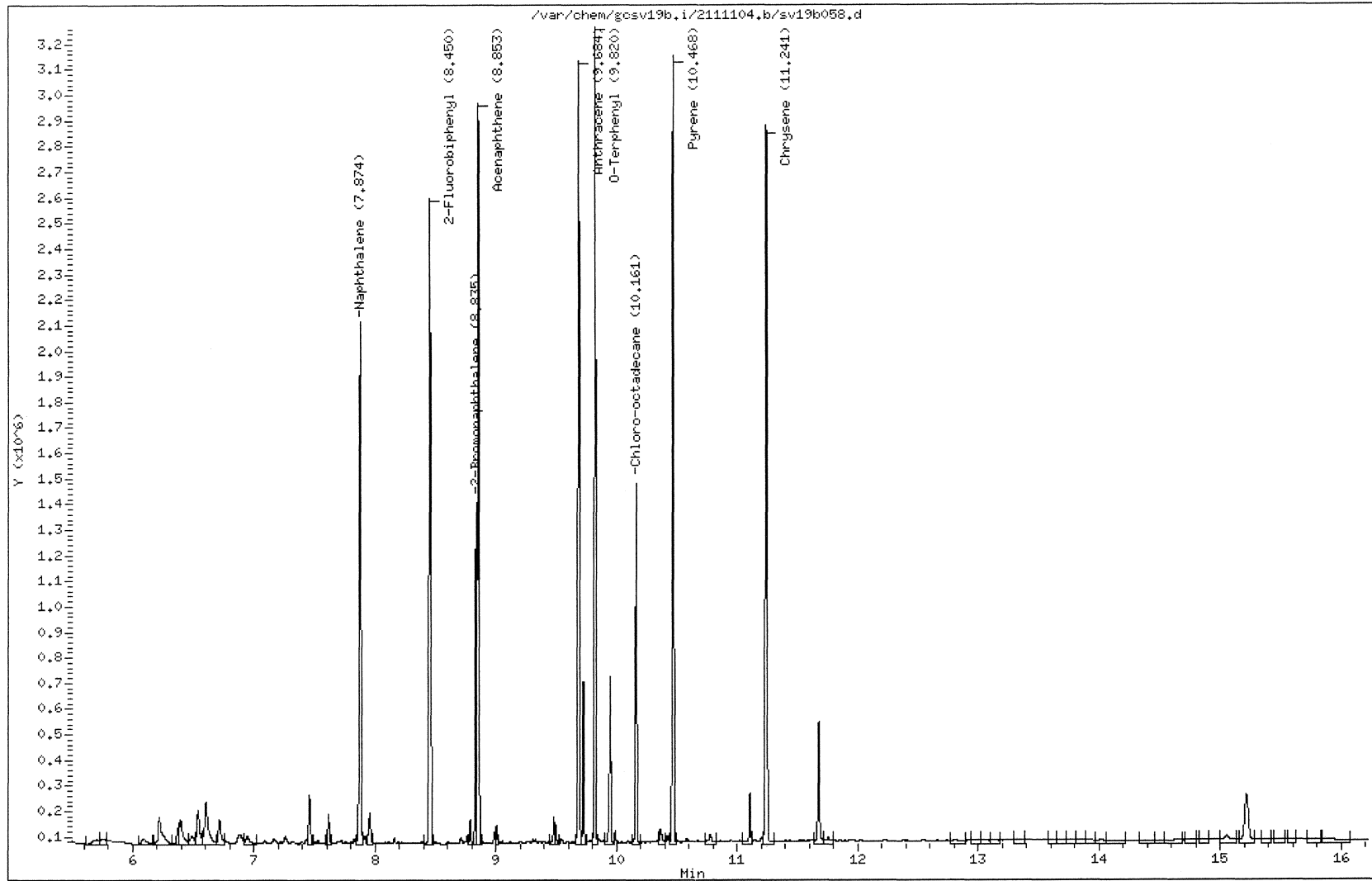
QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gosv19b.i/2111104.b/sv19b058.d
Date : 04-NOV-2011 12:54
Client ID: 1 load
Sample Info: 1002045x 1 load
Volume Injected (UL): 1.0
Column phase: DB-5MS-30M

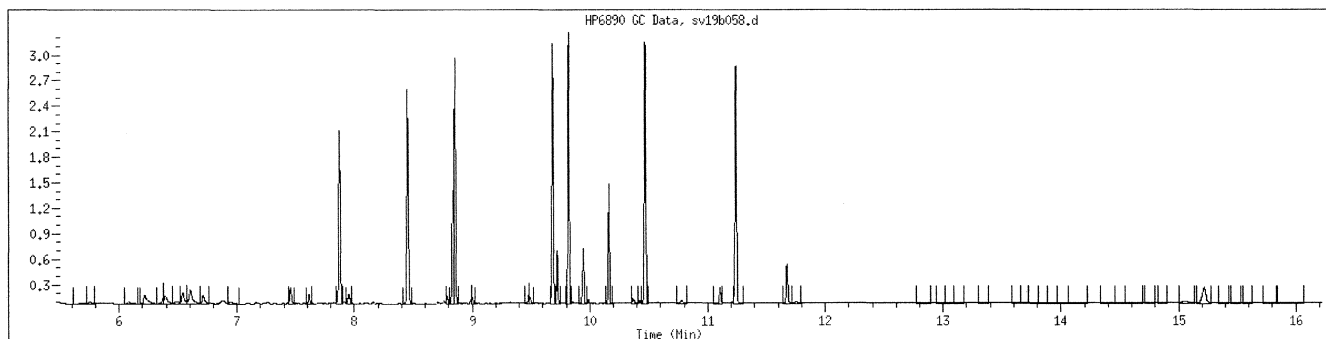
Page 1

Instrument: gosv19b.i
Operator: smh
Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1002045 SampleType : LCS
Injection Date: 11/04/2011 12:54 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1002045* 1 lcsd
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/AROEPhmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b059.d
 Lab Smp Id: 1002045 Client Smp ID: 1 lcsd
 Inj Date : 04-NOV-2011 13:18
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1002045*1 lcsd
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 13:36 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 59 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	CONCENTRATIONS						
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (UG/ML)	FINAL (ug/L)	
1 C-9	6.226	6.232	-0.006	21810061	8.02035	16.0 (R)	
6 C-14	8.463	8.471	-0.008	38518082	13.3830	26.8	
M 11 Alip C9-C18				60328143	21.4033	42.8	
12 C-19	9.726	9.774	-0.048	52318452	17.3398	34.7	
13 C-20	9.949	9.957	-0.008	53612108	17.6048	35.2	
\$ 15 Chlorooctadecane	10.163	10.216	-0.053	36556049	13.3437	26.7	
22 C-28	11.684	11.724	-0.040	56923833	18.3863	36.8	
M 24 Alip C19-C36				162854393	53.3310	107	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Date : 04-NOV-2011 13:18

Client ID: 1 lcsd

Instrument: gosv19b.i

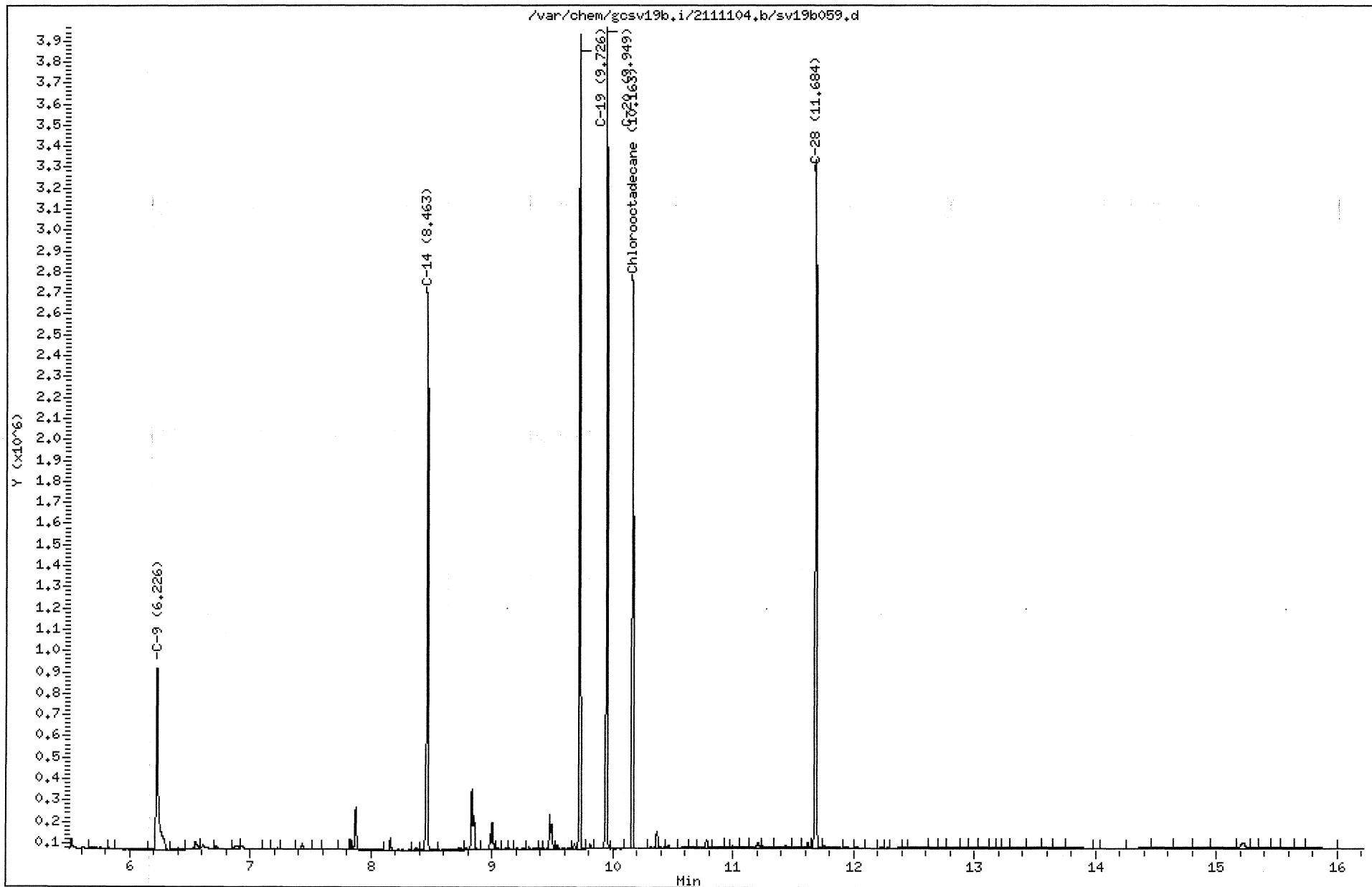
Sample Info: 1002045*1 lcsd

Volume Injected (uL): 1.0

Operator: smh

Column phase: DB-5MS-30M

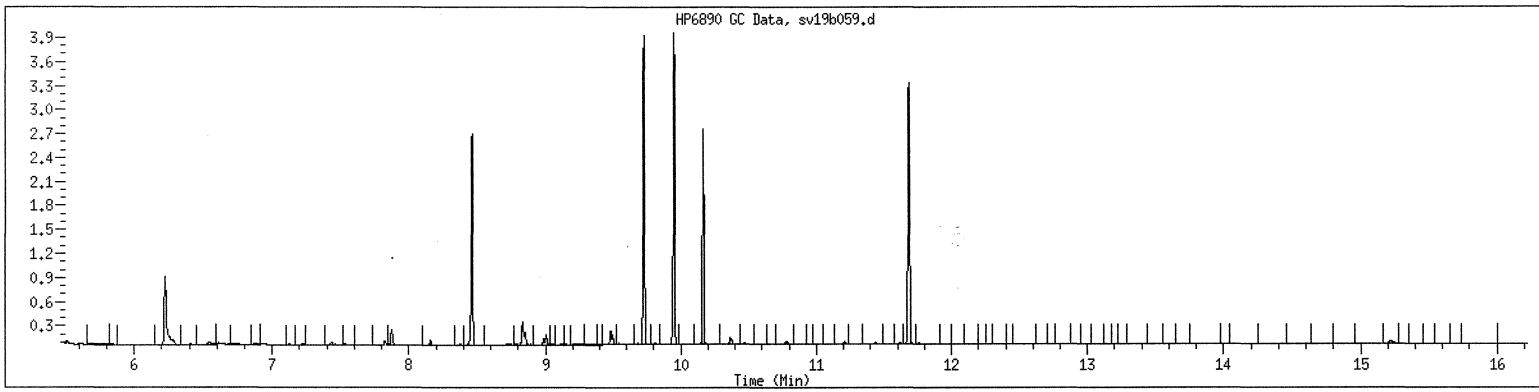
Column diameter: 0.25



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1002045 SampleType : LCS
Injection Date: 11/04/2011 13:18 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1002045*1 lcsd
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: LCSD1004106
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211110257
 Sample wt/vol: 1000 Units: mL Lab Sample ID: 1004106
 Level: (low/med) LOW Date Collected: _____ Time: _____
 % Moisture: _____ decanted: (Y/N) _____ Date Received: _____
 GC Column: DB-5MS-30M ID: .25 (mm) Date Extracted: 11/08/11
 Concentrated Extract Volume: 2000 (µL) Date Analyzed: 11/10/11 Time: 1651
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: SMH
 Injection Volume: 1 (µL) Prep Method: MASS EPH
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSEPH
 Prep Batch: 468721 Analytical Batch: 469140 Sulfur Cleanup: (Y/N) N Instrument ID: GCS19B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111110/sv19b058

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCSV-02-22	C11-C22 Aromatics	191		42.1	42.1	100
GCSV-02-23	C9-C18 Aliphatic Hydrocarbons	52.8	J	21.8	21.8	100
GCSV-02-24	C19-C36 Aliphatic Hydrocarbons	94.2	J	31.3	60.0	100

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111110.b/sv19b058.d
 Lab Smp Id: 1004106 Client Smp ID: 1 LCSD
 Inj Date : 10-NOV-2011 16:51
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1004106*1 LCSD
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111110.b/AROEPHmass.m
 Meth Date : 11-Nov-2011 15:43 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 58 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 Naphthalene	7.871	7.880	-0.009	49288016	17.3418	34.7
\$ 3 2-Fluorobiphenyl	8.448	8.454	-0.006	48539862	19.7518	39.5
\$ 5 2-Bromonaphthalene	8.833	8.838	-0.005	27183500	17.3278	34.7
6 Acenaphthene	8.851	8.858	-0.007	61175611	21.0214	42.0
9 Anthracene	9.683	9.688	-0.005	51333879	19.3421	38.7
\$ 10 O-Terphenyl	9.820	9.822	-0.002	49367854	16.7417	33.5
\$ 11 Chloro-octadecane	10.163	10.158	0.005	32943730	12.0255	24.1
13 Pyrene	10.469	10.467	0.002	53212368	18.6352	37.3
15 Chrysene	11.245	11.250	-0.005	52943561	19.2650	38.5
M 22 Arom C11-C22				267953435	95.6055	191
M 113 Total Surrogate Area				158034946		(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation (BLOQ).

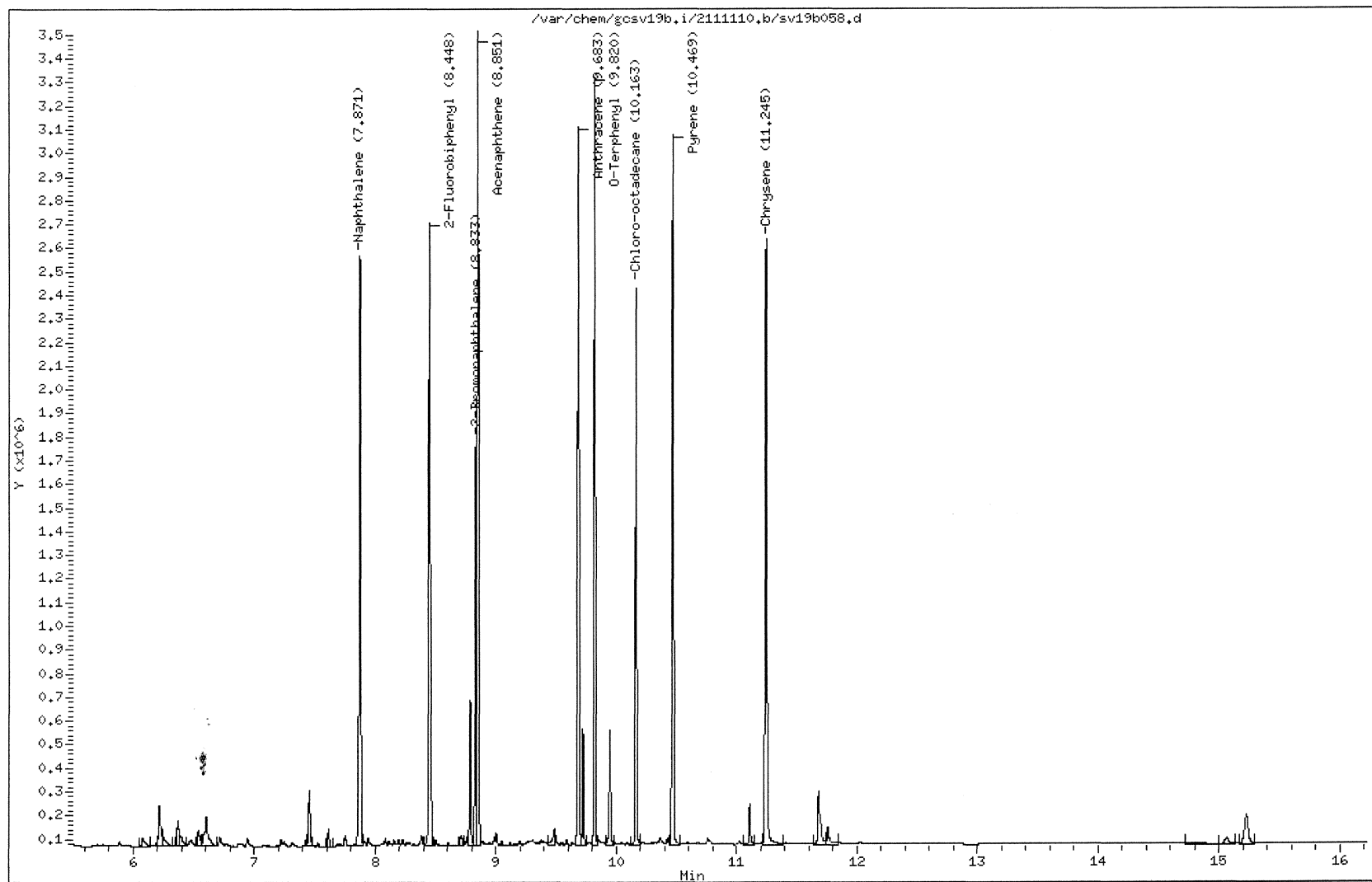
Data File: /var/chem/gosv19b.i/2111110,b/sv19b058.d
Date : 10-NOV-2011 16:51
Client ID: 1 LCSD
Sample Info: 1004106M1 LCSD
Volume Injected (UL): 1.0
Column phase: DB-5MS-30M

Page 1

Instrument: gosv19b.i

Operator: smh

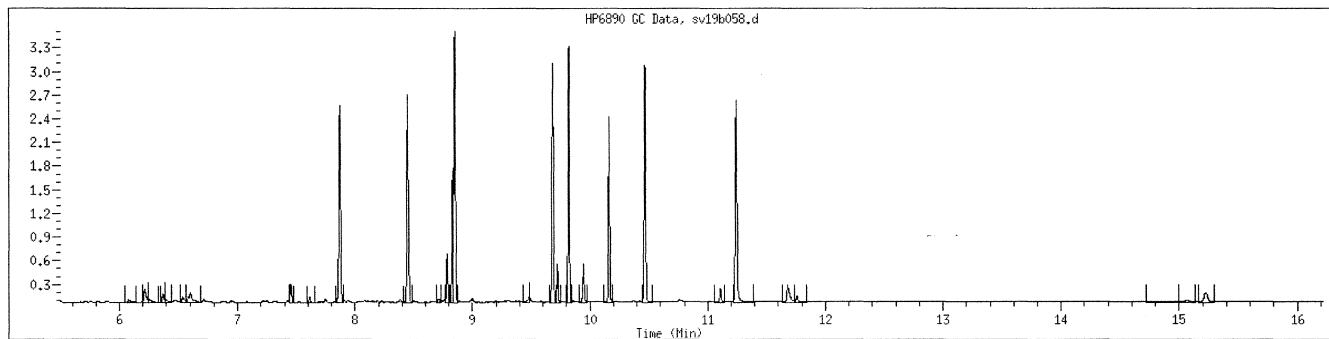
Column diameter: 0.25



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1004106 SampleType : LCS
Injection Date: 11/10/2011 16:51 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1004106*1 LCS
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/AROEPMass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111110.b/sv19b059.d
 Lab Smp Id: 1004106 Client Smp ID: 1 LCSD
 Inj Date : 10-NOV-2011 17:15
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1004106*1 LCSD
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
 Meth Date : 11-Nov-2011 15:05 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 59 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 C-9	6.224	6.232	-0.008	31225286	11.4827	23.0
6 C-14	8.461	8.470	-0.009	42882291	14.8993	29.8
M 11 Alip C9-C18				74107577	26.3820	52.8
12 C-19	9.724	9.773	-0.049	49945153	16.5533	33.1
13 C-20	9.947	9.956	-0.009	50271463	16.5078	33.0
\$ 15 Chlorooctadecane	10.161	10.215	-0.054	21612655	7.88904	15.8 (R)
22 C-28	11.682	11.721	-0.039	43492976	14.0482	28.1
M 24 Alip C19-C36				143709592	47.1092	94.2

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Date : 10-NOV-2011 17:15

Client ID: 1 LCSD

Sample Info: 1004106*1 LCSD

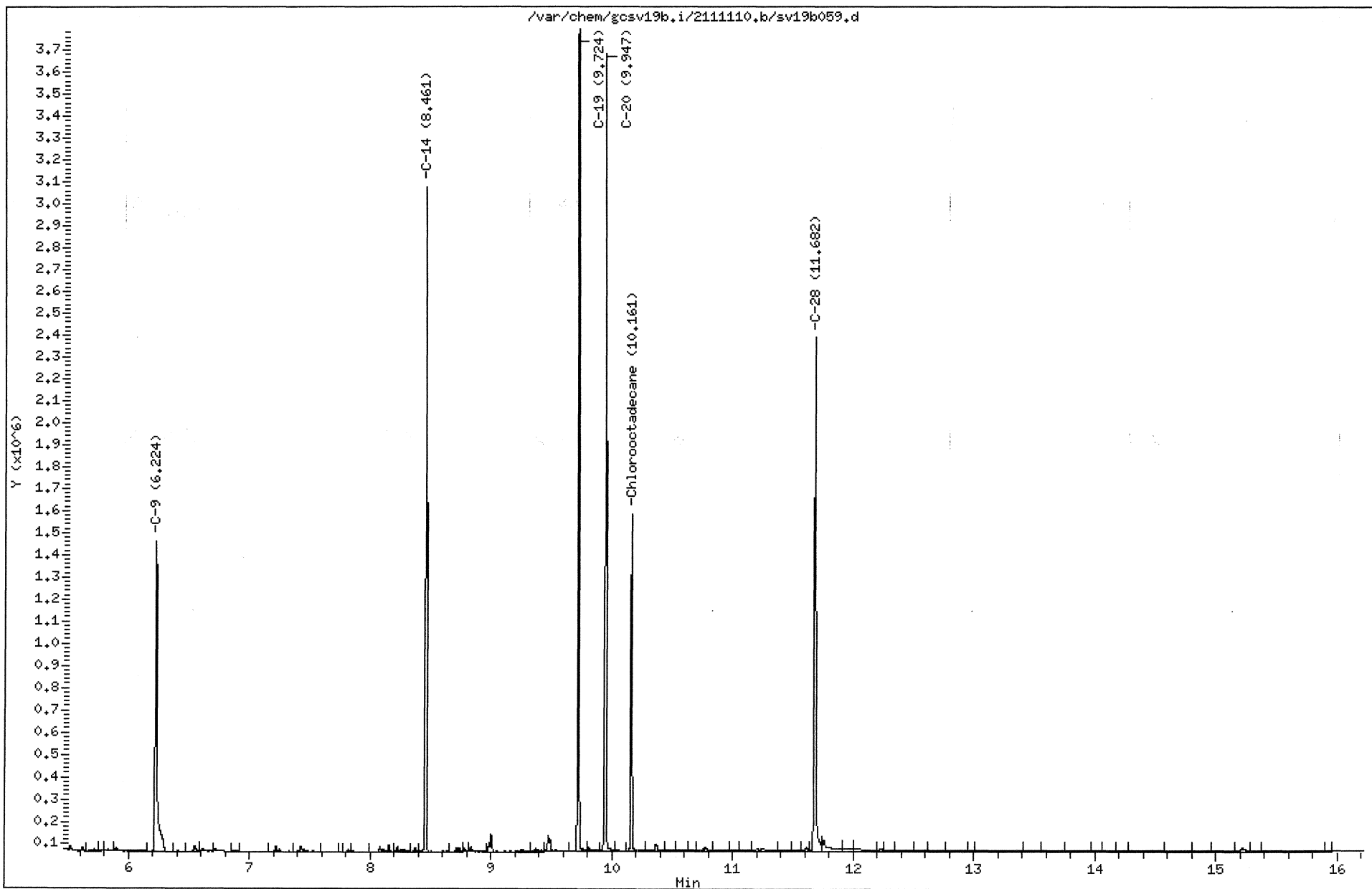
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gosv19b,i

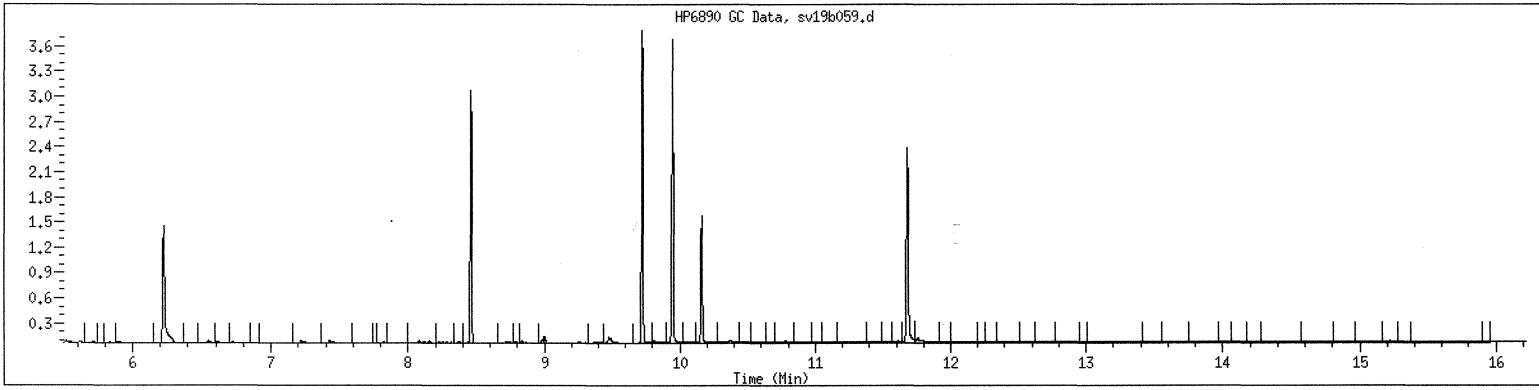
Operator: smh

Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1004106 SampleType : LCS
Injection Date: 11/10/2011 17:15 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1004106*1 LCSD
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: ES047 MS
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211110257
 Sample wt/vol: 980 Units: mL Lab Sample ID: 21110312403
 Level: (low/med) LOW Date Collected: 10/24/11 Time: 0830
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 10/29/11
 GC Column: DB-5MS-30M ID: .25 (mm) Date Extracted: 11/02/11
 Concentrated Extract Volume: 2000 (µL) Date Analyzed: 11/04/11 Time: 1747
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: SMH
 Injection Volume: 1 (µL) Prep Method: MASS EPH
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSEPH
 Prep Batch: 468306 Analytical Batch: 468719 Sulfur Cleanup: (Y/N) N Instrument ID: GCS19B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111104/sv19b070s

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCSV-02-22	C11-C22 Aromatics	310		43.0	43.0	102
GCSV-02-23	C9-C18 Aliphatic Hydrocarbons	74.0	J	22.2	22.2	102
GCSV-02-24	C19-C36 Aliphatic Hydrocarbons	120		31.9	61.2	102

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b070.d
 Lab Smp Id: 21110312403 Client Smp ID: 1
 Inj Date : 04-NOV-2011 17:47
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312403*1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/AROEPhmass.m
 Meth Date : 08-Nov-2011 14:08 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 70
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	980.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 Naphthalene	8.853	7.881	0.972	569043598	200.215	409 (AM1)
M 22 Arom C11-C22				569043598	200.215	409

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M1- Compound response manually integrated because Target system did not integrate.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b070s.d
 Lab Smp Id: 21110312403 Client Smp ID: 1
 Inj Date : 04-NOV-2011 17:47
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312403*1 ms
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/AROEPhmass.m
 Meth Date : 08-Nov-2011 14:38 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 70 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	980.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 Naphthalene	7.875	7.881	-0.006	51082409	17.9731	36.7
\$ 3 2-Fluorobiphenyl	8.451	8.454	-0.003	53553206	21.7919	44.5
\$ 5 2-Bromonaphthalene	8.835	8.839	-0.004	27196175	17.3359	35.4
6 Acenaphthene	8.853	8.858	-0.005	48371523	16.6216	33.9
9 Anthracene	9.684	9.688	-0.004	41769813	15.7385	32.1
\$ 10 O-Terphenyl	9.819	9.823	-0.004	38965980	13.2142	27.0
\$ 11 Chloro-octadecane	10.160	10.174	-0.014	31113619	11.3574	23.2
13 Pyrene	10.464	10.468	-0.004	42783739	14.9830	30.6
15 Chrysene	11.235	11.245	-0.010	41961095	15.2687	31.2
M 22 Arom C11-C22				225968579	80.5850	164
M 113 Total Surrogate Area				150828980		(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Date : 04-NOV-2011 17:47

Client ID: 1

Instrument: gcsv19b.i

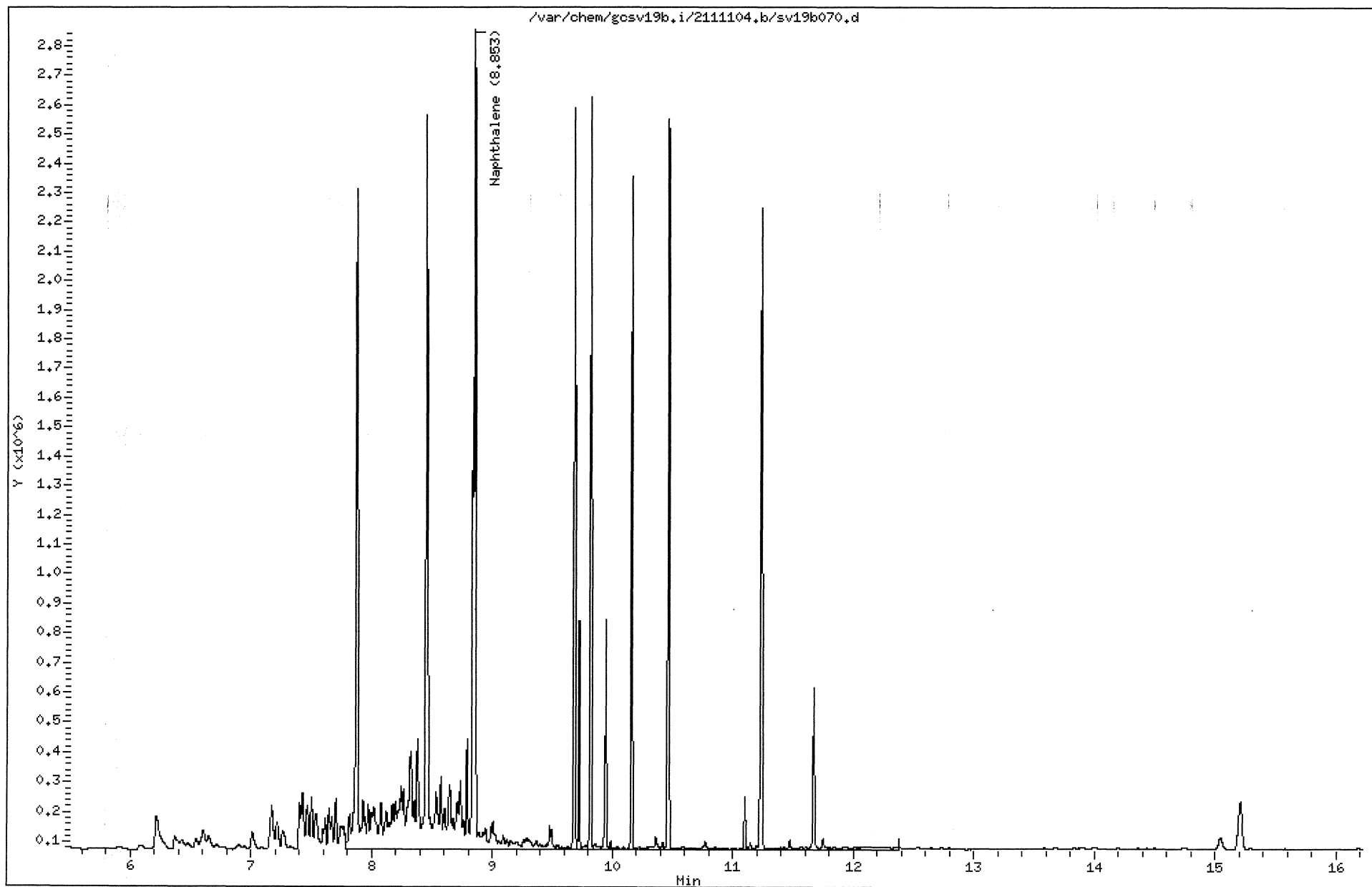
Sample Info: 21110312403*1

Volume Injected (uL): 1.0

Operator: smh

Column phase: DB-5MS-30M

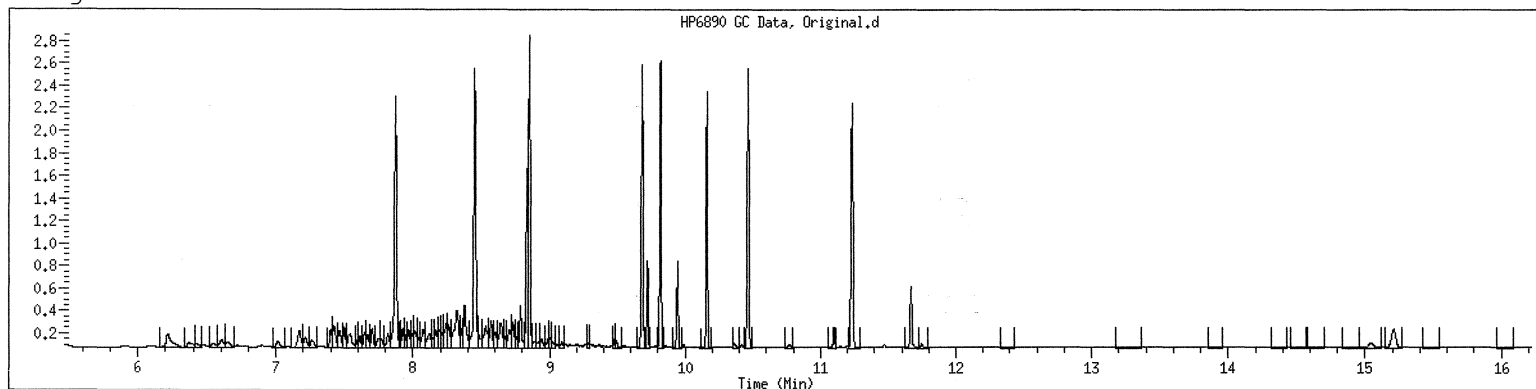
Column diameter: 0.25



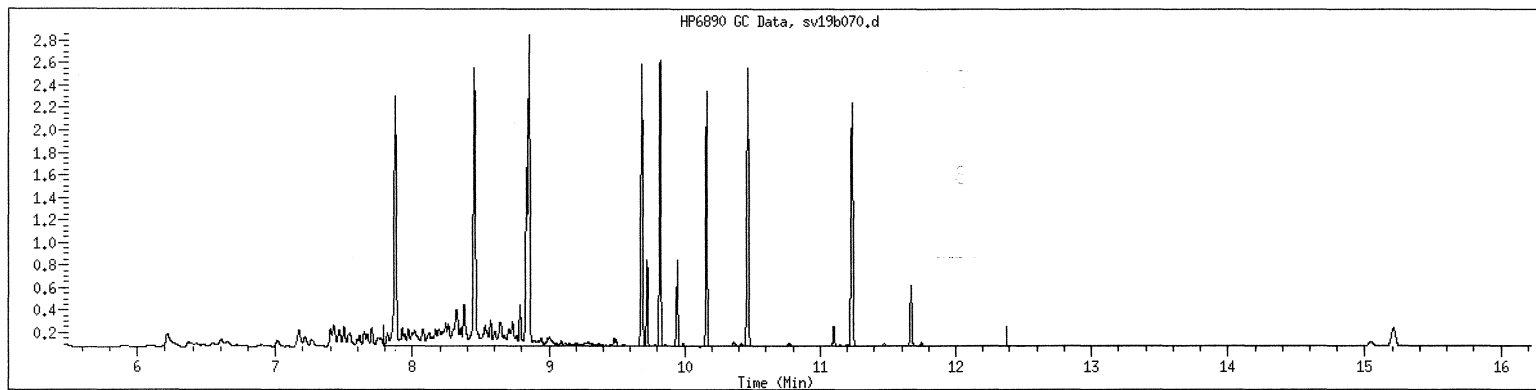
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312403 SampleType : SAMPLE
Injection Date: 11/04/2011 17:47 Instrument : gcsv19b.i
Operator : smh
Sample Info : 21110312403*1
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b071.d
 Lab Smp Id: 21110312403 Client Smp ID: 1
 Inj Date : 04-NOV-2011 18:12
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312403*1 ms
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 13:57 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 71
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	980.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
10 C-18	8.463	9.504	-1.041	103155664	34.1429	69.7 (M1)
M 11 Alip C9-C18				103155664	34.1429	69.7
114 C-36	9.946	15.145	-5.199	196172680	67.0530	137 (AM1)
M 24 Alip C19-C36				196172680	67.0530	137

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M1- Compound response manually integrated because Target system did not integrate.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b071s.d
 Lab Smp Id: 21110312403 Client Smp ID: 1
 Inj Date : 04-NOV-2011 18:12
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312403*1 ms
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 13:57 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 71 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	980.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 C-9	6.228	6.232	-0.004	17636810	6.48569	13.2 (R)
6 C-14	8.463	8.471	-0.008	31294950	10.8733	22.2
M 11 Alip C9-C18				48931760	17.3590	35.4
12 C-19	9.724	9.774	-0.050	43646012	14.4655	29.5
13 C-20	9.946	9.957	-0.011	47976180	15.7541	32.2
\$ 15 Chlorooctadecane	10.159	10.217	-0.058	15508787	5.66101	11.6 (R)
22 C-28	11.676	11.725	-0.049	49801516	16.0858	32.8
M 24 Alip C19-C36				141423708	46.3055	94.5

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Date : 04-NOV-2011 18:12

Client ID: 1

Instrument: gosv19b.i

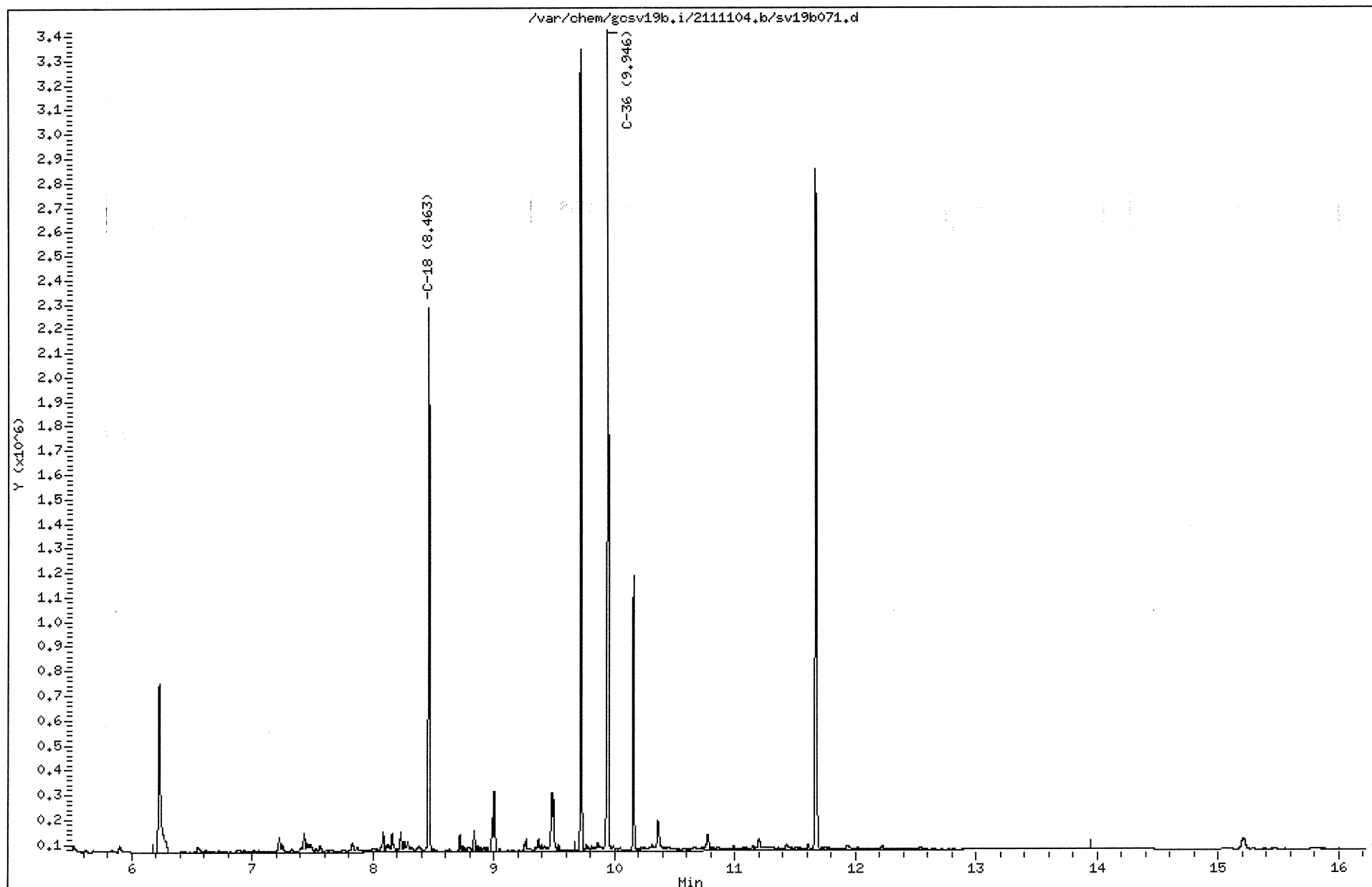
Sample Info: 21110312403*1.ms

Operator: smh

Volume Injected (UL): 1.0

Column diameter: 0.25

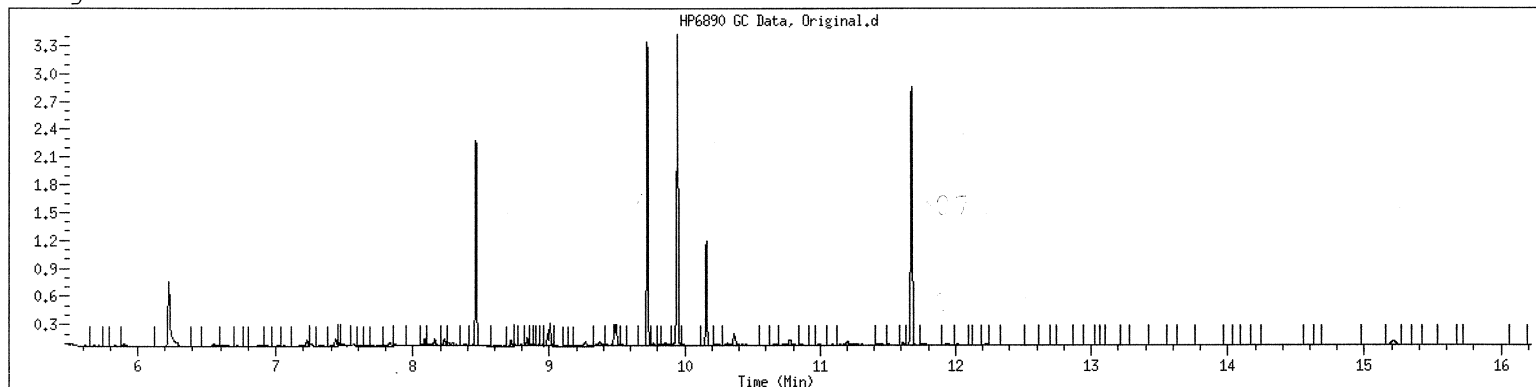
Column phase: DB-5MS-30M



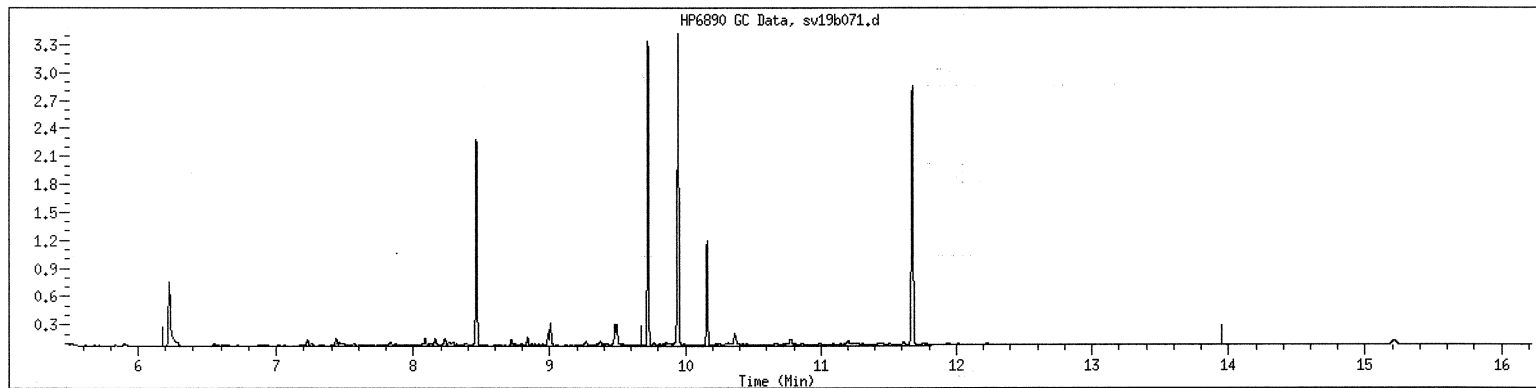
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312403 SampleType : SAMPLE
Injection Date: 11/04/2011 18:12 Instrument : gcsv19b.i
Operator : smh
Sample Info : 21110312403*1 ms
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph

Original



Final



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: ES053 MS
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211110257
 Sample wt/vol: 990 Units: mL Lab Sample ID: 21110312409
 Level: (low/med) LOW Date Collected: 10/26/11 Time: 1043
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 10/29/11
 GC Column: DB-5MS-30M ID: .25 (mm) Date Extracted: 11/08/11
 Concentrated Extract Volume: 2000 (µL) Date Analyzed: 11/10/11 Time: 2052
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: SMH
 Injection Volume: 1 (µL) Prep Method: MASS EPH
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSEPH
 Prep Batch: 468721 Analytical Batch: 469140 Sulfur Cleanup: (Y/N) N Instrument ID: GCS19B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111110/sv19b068

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCSV-02-22	C11-C22 Aromatics	188		42.5	42.5	101
GCSV-02-23	C9-C18 Aliphatic Hydrocarbons	50.6	J	22.0	22.0	101
GCSV-02-24	C19-C36 Aliphatic Hydrocarbons	402		31.6	60.6	101

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111110.b/sv19b068.d
 Lab Smp Id: 21110312409 Client Smp ID: 1
 Inj Date : 10-NOV-2011 20:52
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312409*1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111110.b/AROEPHmass.m
 Meth Date : 11-Nov-2011 15:43 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 68 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	990.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 Naphthalene	7.870	7.880	-0.010	46967149	16.5252	33.4
\$ 3 2-Fluorobiphenyl	8.447	8.454	-0.007	45813501	18.6424	37.7
\$ 5 2-Bromonaphthalene	8.831	8.838	-0.007	26074780	16.6211	33.6
6 Acenaphthene	8.849	8.858	-0.009	58161749	19.9858	40.4
9 Anthracene	9.679	9.688	-0.009	50910859	19.1827	38.8
\$ 10 O-Terphenyl	9.815	9.822	-0.007	50163153	17.0114	34.4
\$ 11 Chloro-octadecane	10.155	10.158	-0.003	28559571	10.4251	21.1
13 Pyrene	10.459	10.467	-0.008	52597370	18.4198	37.2
15 Chrysene	11.229	11.250	-0.021	51437119	18.7168	37.8 (M1)
M 22 Arom C11-C22				260074246	92.8303	188
M 113 Total Surrogate Area				150611005		(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- M1- Compound response manually integrated because
Target system did not integrate.

Date : 10-NOV-2011 20:52

Client ID: 1

Instrument: gcsv19b.i

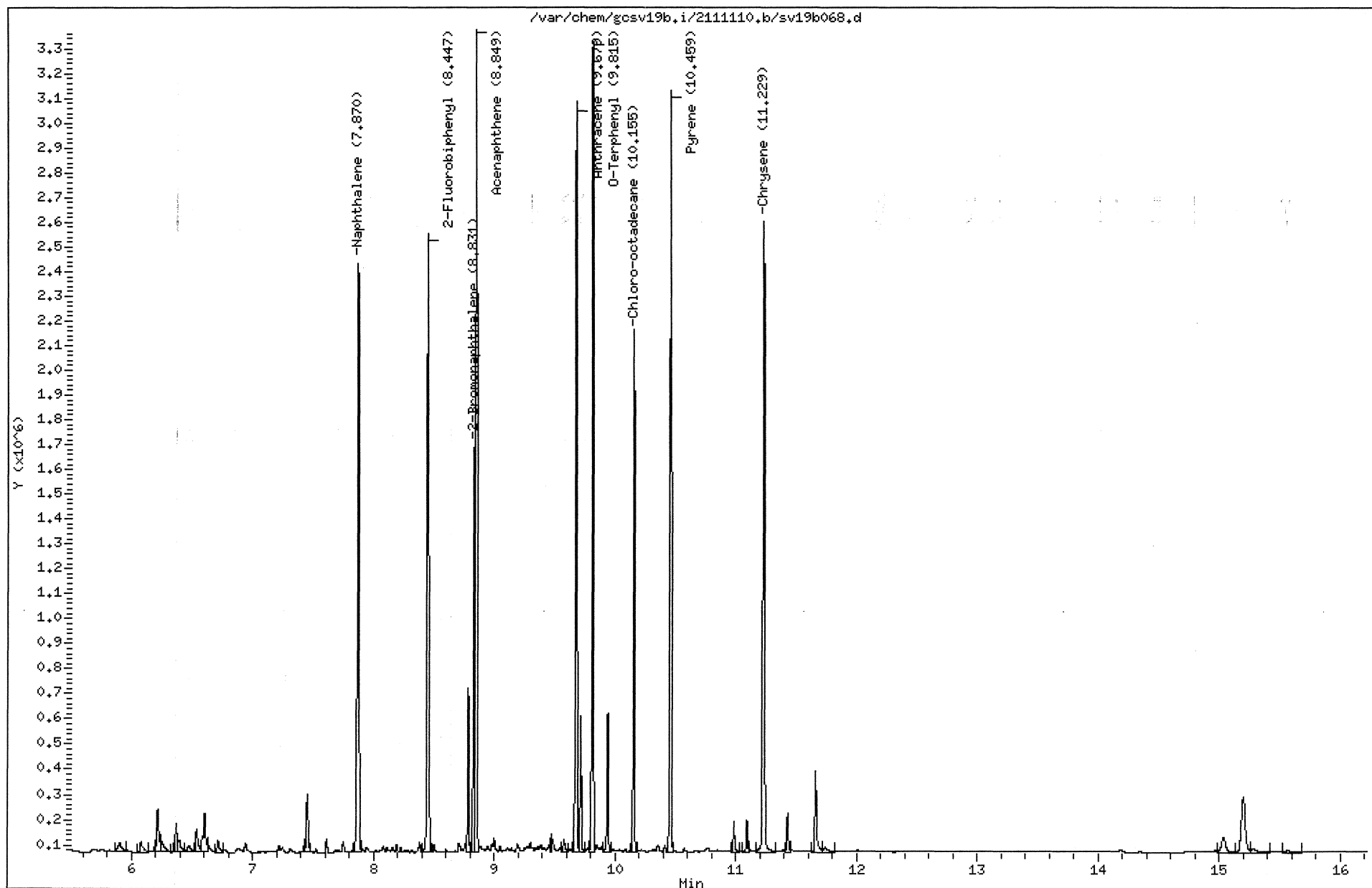
Sample Info: 21110312409*1

Volume Injected (uL): 1.0

Operator: smh

Column phase: DB-5MS-30M

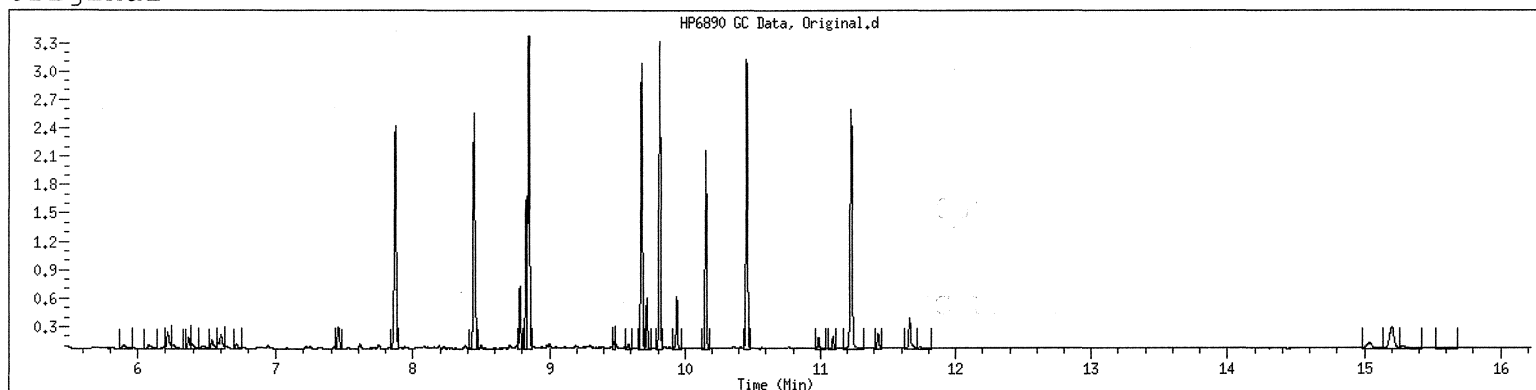
Column diameter: 0.25



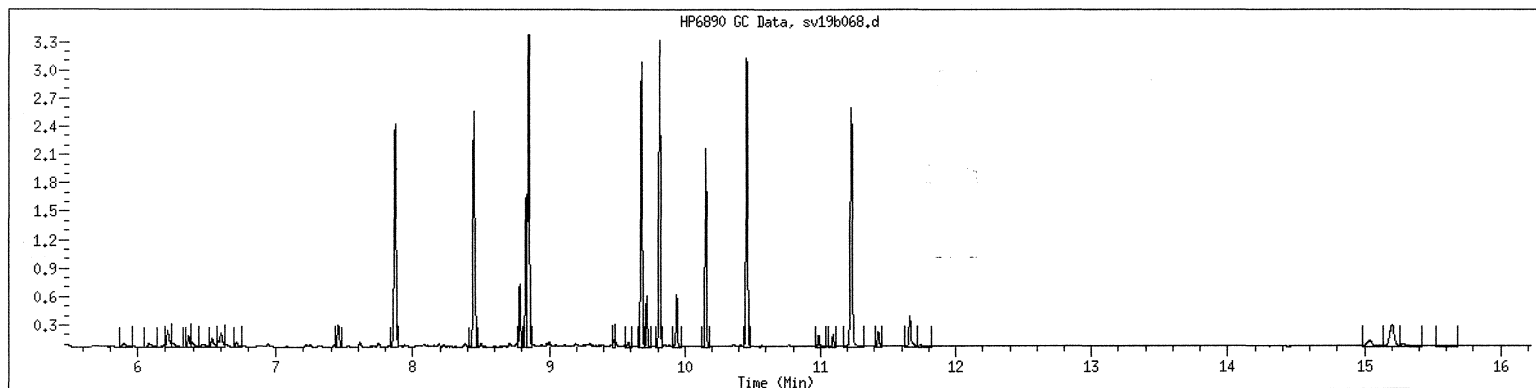
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312409 SampleType : MS
Injection Date: 11/10/2011 20:52 Instrument : gcsv19b.i
Operator : smh
Sample Info : 21110312409*1
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/AROEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111110.b/sv19b069.d
 Lab Smp Id: 21110312409 Client Smp ID: 1
 Inj Date : 10-NOV-2011 21:16
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312409*1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
 Meth Date : 11-Nov-2011 15:05 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 69 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	990.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
10 C-18	8.459	9.503	-1.044	75607947	25.0251	50.6 (M1H)
M 11 Alip C9-C18				75607947	25.0251	50.6
114 C-36	9.718	15.140	-5.422	635142619	217.096	439 (AM1H)
M 24 Alip C19-C36				635142619	217.096	439

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M1- Compound response manually integrated because Target system did not integrate.
- H - Operator selected an alternate compound hit.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b069s.d
Lab Smp Id: 2111031240 *AE 11/11/11* Client Smp ID: 1
Inj Date : 04-NOV-2011 17:23
Operator : smh Inst ID: gcsv19b.i
Smp Info : 2111031240*1
Misc Info :
Comment :
Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
Meth Date : 08-Nov-2011 13:57 smh Quant Type: ESTD
Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
Als bottle: 69
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: Chloro.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	990.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (UG/ML)	FINAL (ug/L)
§ 15 Chlorooctadecane	10.158	10.217	-0.059	17017131	6.21158	12.5(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Date : 10-NOV-2011 21:16

Client ID: 1

Instrument: gosv19b.i

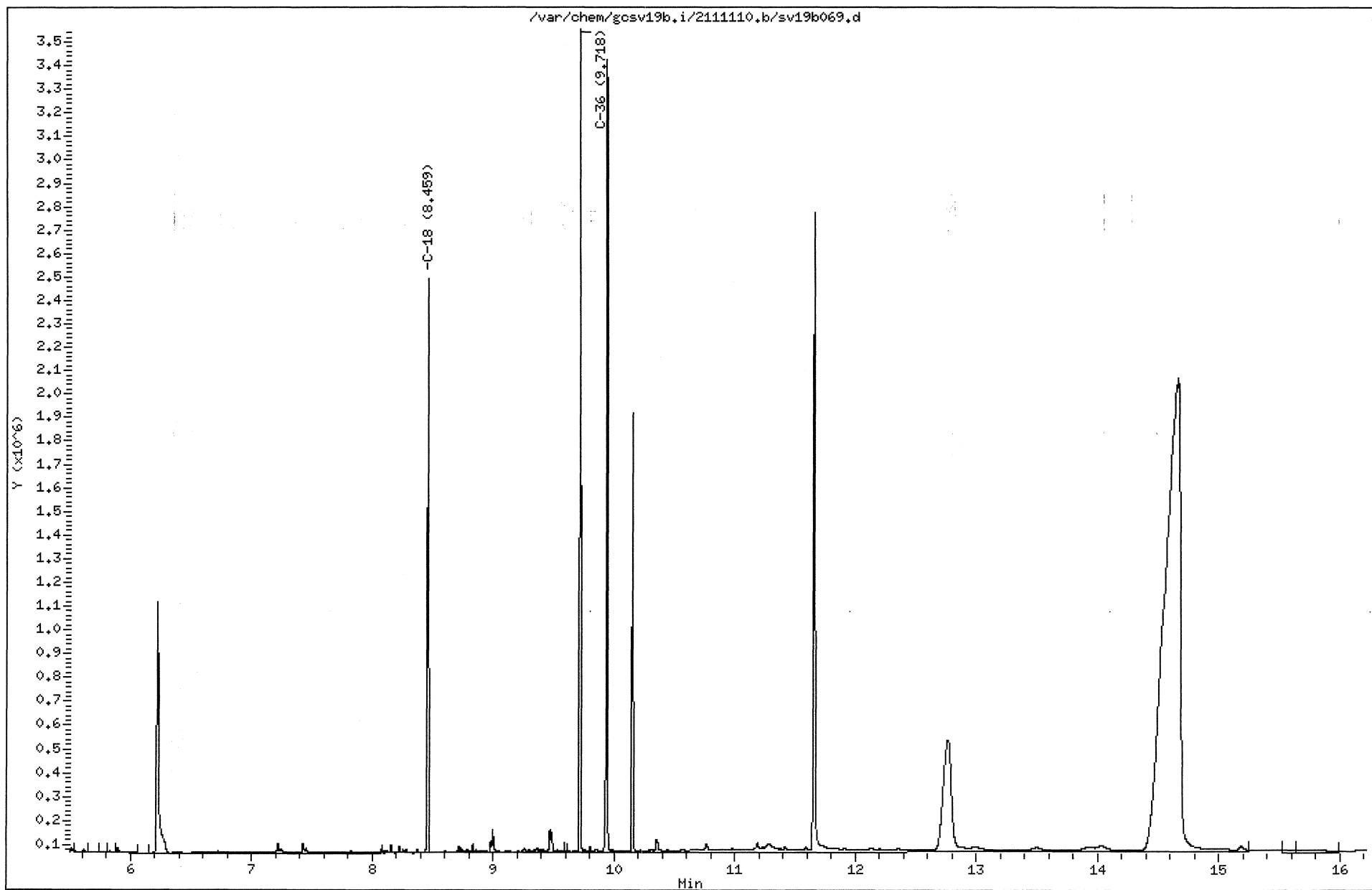
Sample Info: 21110312409*1

Operator: smh

Volume Injected (uL): 1.0

Column diameter: 0,25

Column phase: DB-5MS-30M

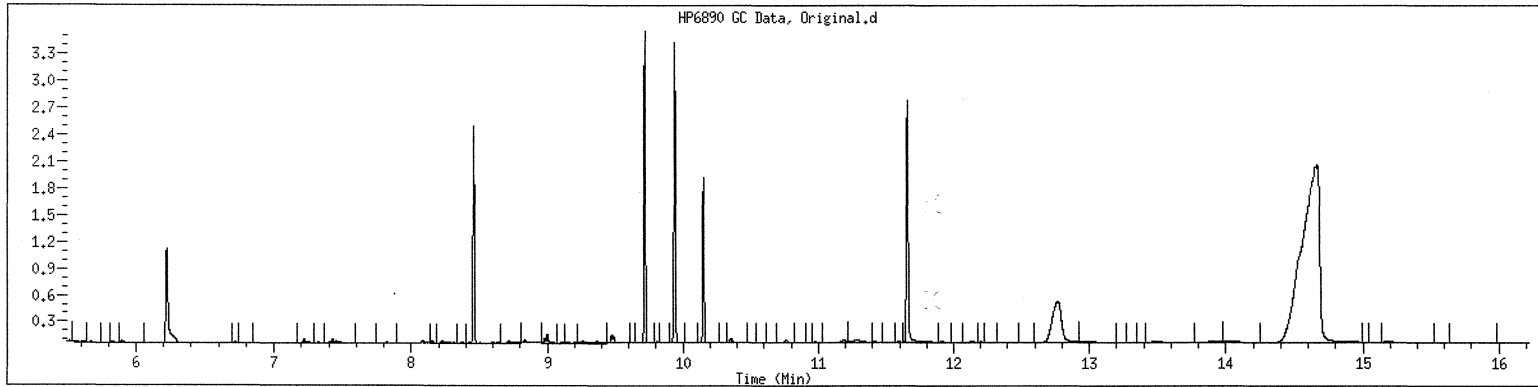


211110257 204

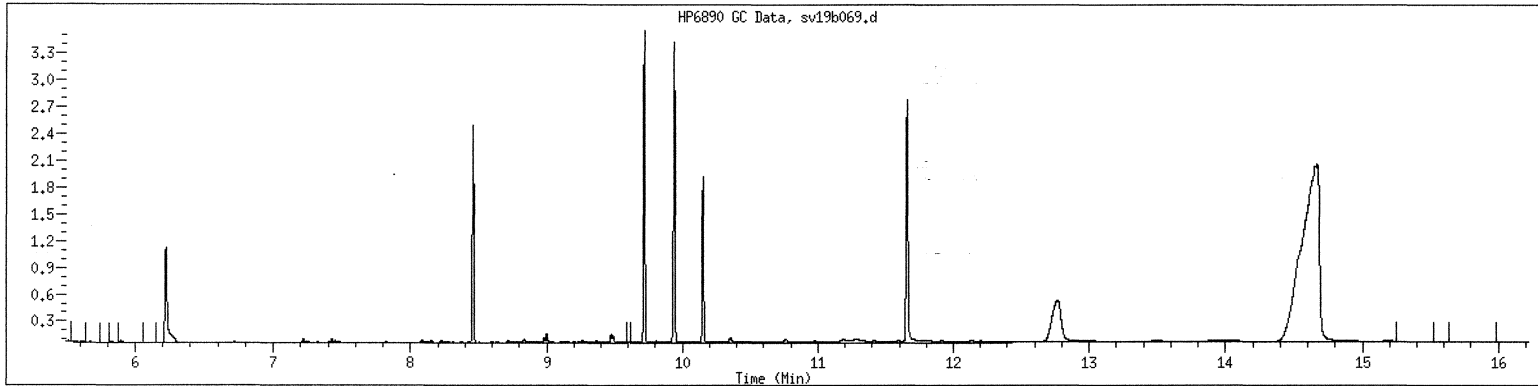
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312409 SampleType : MS
Injection Date: 11/10/2011 21:16 Instrument : gcsv19b.i
Operator : smh
Sample Info : 21110312409*1
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph

Original



Final



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: ES047 MSD
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211110257
 Sample wt/vol: 980 Units: mL Lab Sample ID: 21110312404
 Level: (low/med) LOW Date Collected: 10/24/11 Time: 0830
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 10/29/11
 GC Column: DB-5MS-30M ID: .25 (mm) Date Extracted: 11/02/11
 Concentrated Extract Volume: 2000 (µL) Date Analyzed: 11/04/11 Time: 1836
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: SMH
 Injection Volume: 1 (µL) Prep Method: MASS EPH
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSEPH
 Prep Batch: 468306 Analytical Batch: 468719 Sulfur Cleanup: (Y/N) N Instrument ID: GCS19B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111104/sv19b072s

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCSV-02-22	C11-C22 Aromatics	302		43.0	43.0	102
GCSV-02-23	C9-C18 Aliphatic Hydrocarbons	57.0	J	22.2	22.2	102
GCSV-02-24	C19-C36 Aliphatic Hydrocarbons	121		31.9	61.2	102

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b072.d
Lab Smp Id: 21110312404 Client Smp ID: 1
Inj Date : 04-NOV-2011 18:36
Operator : smh Inst ID: gcsv19b.i
Smp Info : 21110312404*1
Misc Info :
Comment :
Method : /var/chem/gcsv19b.i/2111104.b/AROEPhmass.m
Meth Date : 08-Nov-2011 14:08 smh Quant Type: ESTD
Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
Als bottle: 72
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	980.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 Naphthalene	9.824	7.881	1.943	552418609	194.366	397 (M1)
M 22 Arom C11-C22				552418609	194.366	397

QC Flag Legend

M1- Compound response manually integrated because Target system did not integrate.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b072s.d
 Lab Smp Id: 21110312404 Client Smp ID: 1
 Inj Date : 04-NOV-2011 18:36
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312404*1 msd
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m
 Meth Date : 08-Nov-2011 14:38 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 72 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	980.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 Naphthalene	7.876	7.881	-0.005	46829053	16.4766	33.6
\$ 3 2-Fluorobiphenyl	8.451	8.454	-0.003	51697210	21.0366	42.9
\$ 5 2-Bromonaphthalene	8.836	8.839	-0.003	25223534	16.0785	32.8
6 Acenaphthene	8.854	8.858	-0.004	41177384	14.1496	28.9
9 Anthracene	9.687	9.688	-0.001	39128993	14.7434	30.1
\$ 10 O-Terphenyl	9.824	9.823	0.001	37333043	12.6604	25.8
\$ 11 Chloro-octadecane	10.169	10.174	-0.005	30359152	11.0820	22.6
13 Pyrene	10.476	10.468	0.008	41370988	14.4883	29.6
15 Chrysene	11.253	11.245	0.008	41665848	15.1613	30.9
M 22 Arom C11-C22				210172266	75.0191	153
M 113 Total Surrogate Area				144612939		(a)

Date : 04-NOV-2011 18:36

Client ID: 1

Instrument: gcsv19b.i

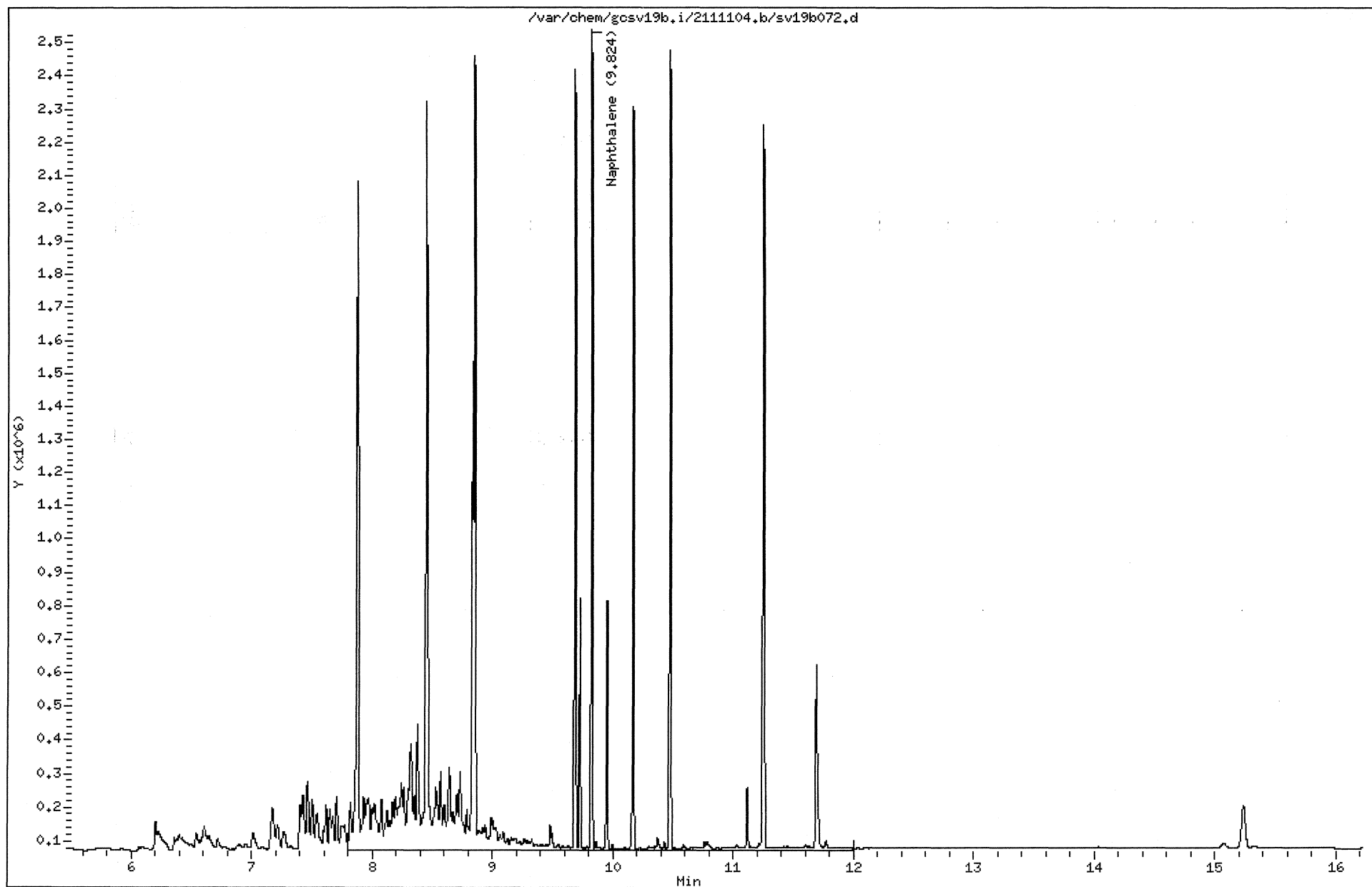
Sample Info: 21110312404*1

Volume Injected (UL): 1.0

Operator: smh

Column phase: DB-5MS-30M

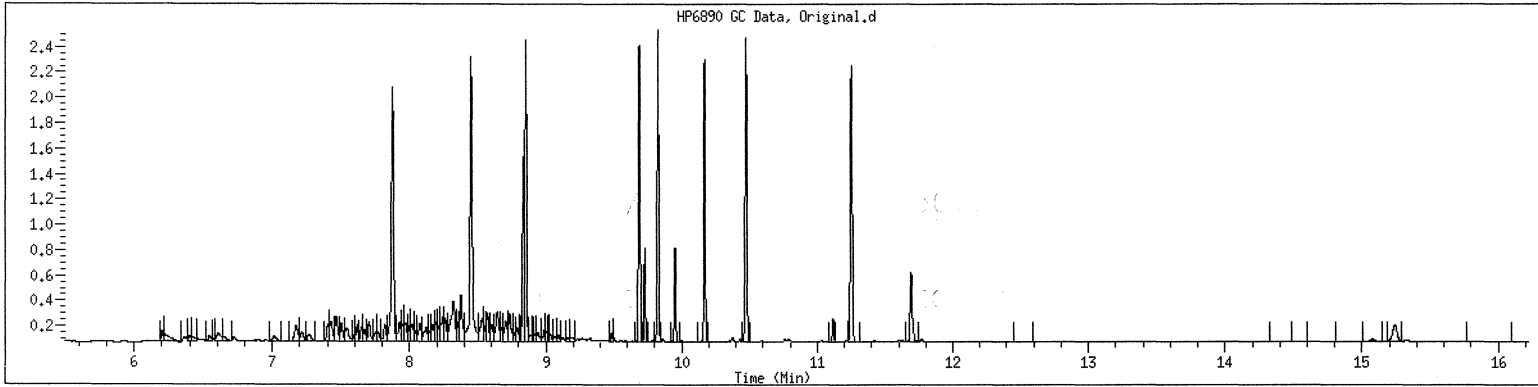
Column diameter: 0.25



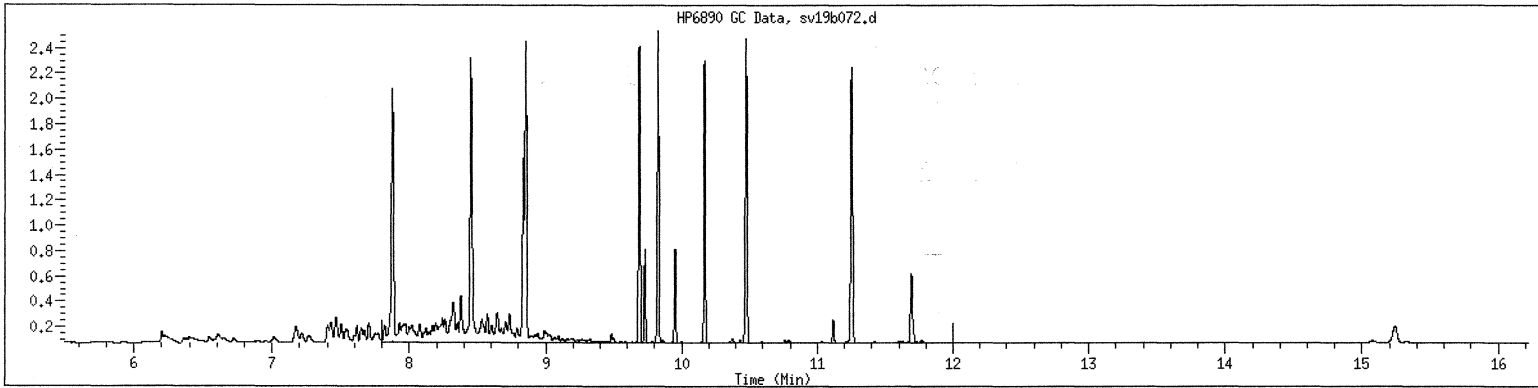
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312404 SampleType : SAMPLE
Injection Date: 11/04/2011 18:36 Instrument : gcsv19b.i
Operator : smh
Sample Info : 21110312404*1
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/AROEPhmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b073.d
 Lab Smp Id: 21110312404 Client Smp ID: 1
 Inj Date : 04-NOV-2011 19:01
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312404*1 msd
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Meth Date : 07-Nov-2011 11:20 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 73
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	980.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
10 C-18	8.463	9.504	-1.041	77733976	25.7287	52.5 (M1)
M 11 Alip C9-C18				77733976	27.2074	55.5
114 C-36	9.949	15.145	-5.196	186054913	63.5947	130 (AM1)
M 24 Alip C19-C36				186054913	60.7932	124

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M1- Compound response manually integrated because Target system did not integrate.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b073s.d
 Lab Smp Id: 21110312404 Client Smp ID: 1
 Inj Date : 04-NOV-2011 19:01
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312404*1 msd
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Meth Date : 07-Nov-2011 11:20 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 73 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	980.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 C-9	6.226	6.232	-0.006	16525582	6.07706	12.4 (R)
6 C-14	8.463	8.471	-0.008	27020278	9.38812	19.2 (R)
M 11 Alip C9-C18				43545860	15.2413	31.1
12 C-19	9.726	9.774	-0.048	39483552	13.0860	26.7
13 C-20	9.949	9.957	-0.008	43023794	14.1279	28.8
\$ 15 Chlorooctadecane	10.163	10.217	-0.054	16128174	5.88710	12.0 (R)
22 C-28	11.683	11.725	-0.042	45999575	14.8578	30.3
M 24 Alip C19-C36				123506921	41.9895	85.7

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Date : 04-NOV-2011 19:01

Client ID: 1

Instrument: gosv19b.i

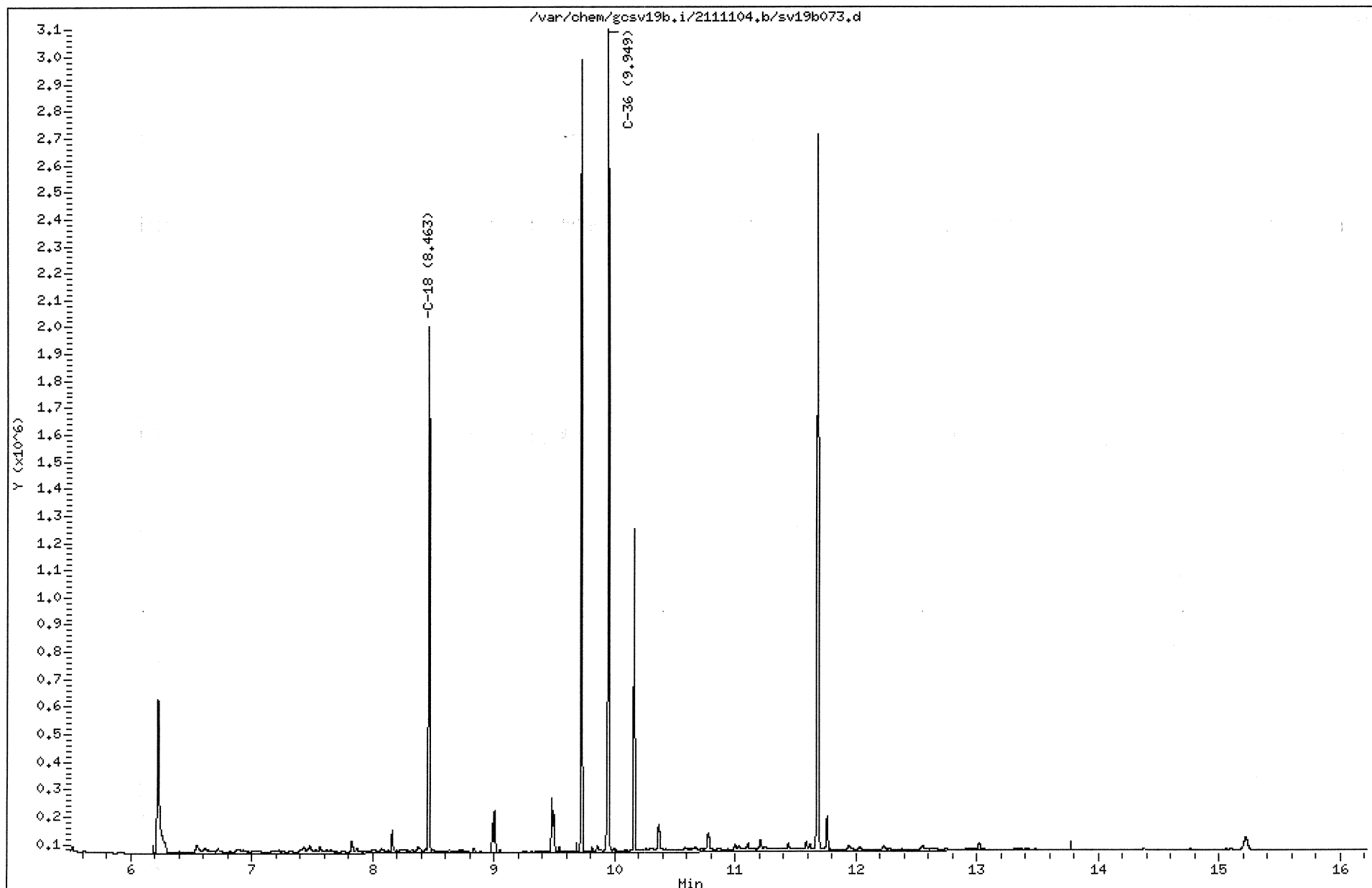
Sample Info: 21110312404*1.msd

Operator: smh

Volume Injected (uL): 1.0

Column diameter: 0.25

Column phase: DB-5MS-30M

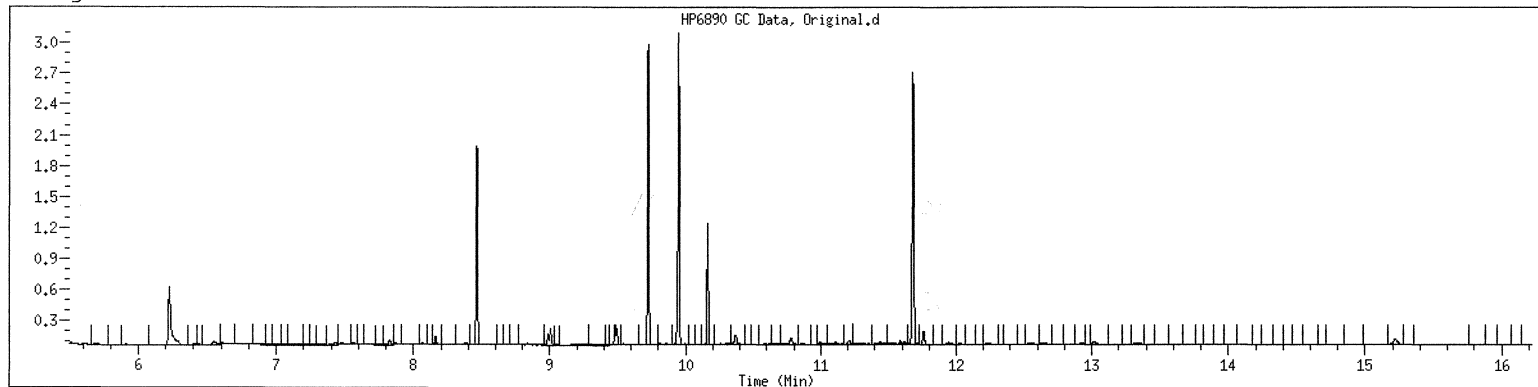


211110257 213

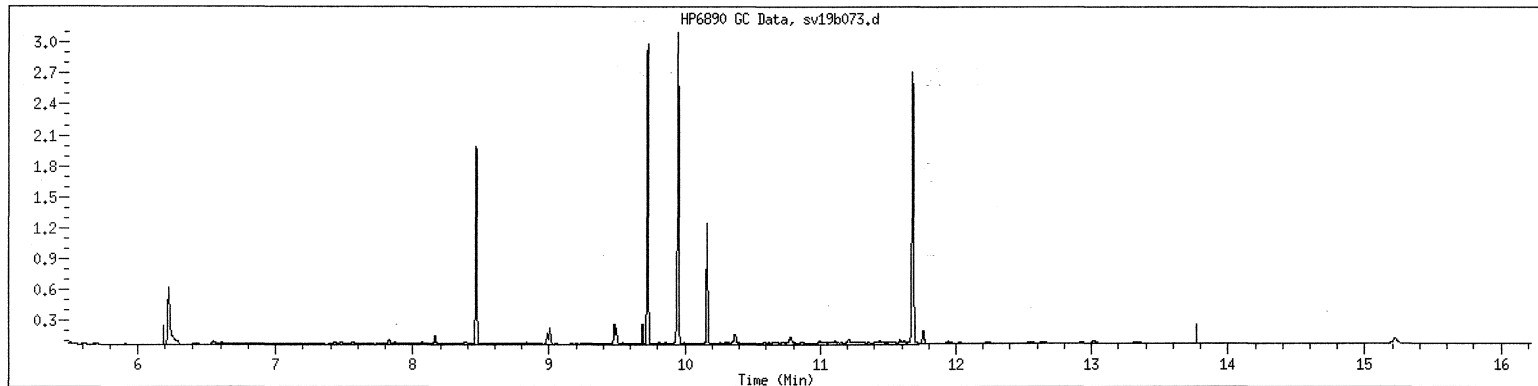
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312404 SampleType : SAMPLE
Injection Date: 11/04/2011 19:01 Instrument : gcsv19b.i
Operator : smh
Sample Info : 21110312404*1 msd
Misc Info :
Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph

Original



Final



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: ES053 MSD
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211110257
 Sample wt/vol: 990 Units: mL Lab Sample ID: 21110312410
 Level: (low/med) LOW Date Collected: 10/26/11 Time: 1043
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 10/29/11
 GC Column: DB-5MS-30M ID: .25 (mm) Date Extracted: 11/08/11
 Concentrated Extract Volume: 2000 (µL) Date Analyzed: 11/10/11 Time: 2140
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: SMH
 Injection Volume: 1 (µL) Prep Method: MASS EPH
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSEPH
 Prep Batch: 468721 Analytical Batch: 469140 Sulfur Cleanup: (Y/N) N Instrument ID: GCS19B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111110/sv19b070

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCSV-02-22	C11-C22 Aromatics	201		42.5	42.5	101
GCSV-02-23	C9-C18 Aliphatic Hydrocarbons	55.1	J	22.0	22.0	101
GCSV-02-24	C19-C36 Aliphatic Hydrocarbons	445		31.6	60.6	101

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111110.b/sv19b070.d
 Lab Smp Id: 21110312410 Client Smp ID: 1
 Inj Date : 10-NOV-2011 21:40
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312410*1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111110.b/AROEPMass.m
 Meth Date : 11-Nov-2011 15:43 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 70 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	990.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 Naphthalene	7.870	7.880	-0.010	48392188	17.0266	34.4
\$ 3 2-Fluorobiphenyl	8.447	8.454	-0.007	53249473	21.6683	43.8
\$ 5 2-Bromonaphthalene	8.831	8.838	-0.007	27491400	17.5241	35.4
6 Acenaphthene	8.849	8.858	-0.009	65323338	22.4467	45.3
9 Anthracene	9.677	9.688	-0.011	54859787	20.6706	41.8
\$ 10 O-Terphenyl	9.810	9.822	-0.012	53102272	18.0081	36.4
\$ 11 Chloro-octadecane	10.149	10.158	-0.009	22265215	8.12747	16.4
13 Pyrene	10.451	10.467	-0.016	56593371	19.8192	40.0
15 Chrysene	11.217	11.250	-0.033	53518004	19.4740	39.3 (M1)
M 22 Arom C11-C22				278686688	99.4371	201
M 113 Total Surrogate Area				156108360		(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- M1- Compound response manually integrated because
Target system did not integrate.

Date : 10-NOV-2011 21:40

Client ID: 1

Instrument: gosv19b.i

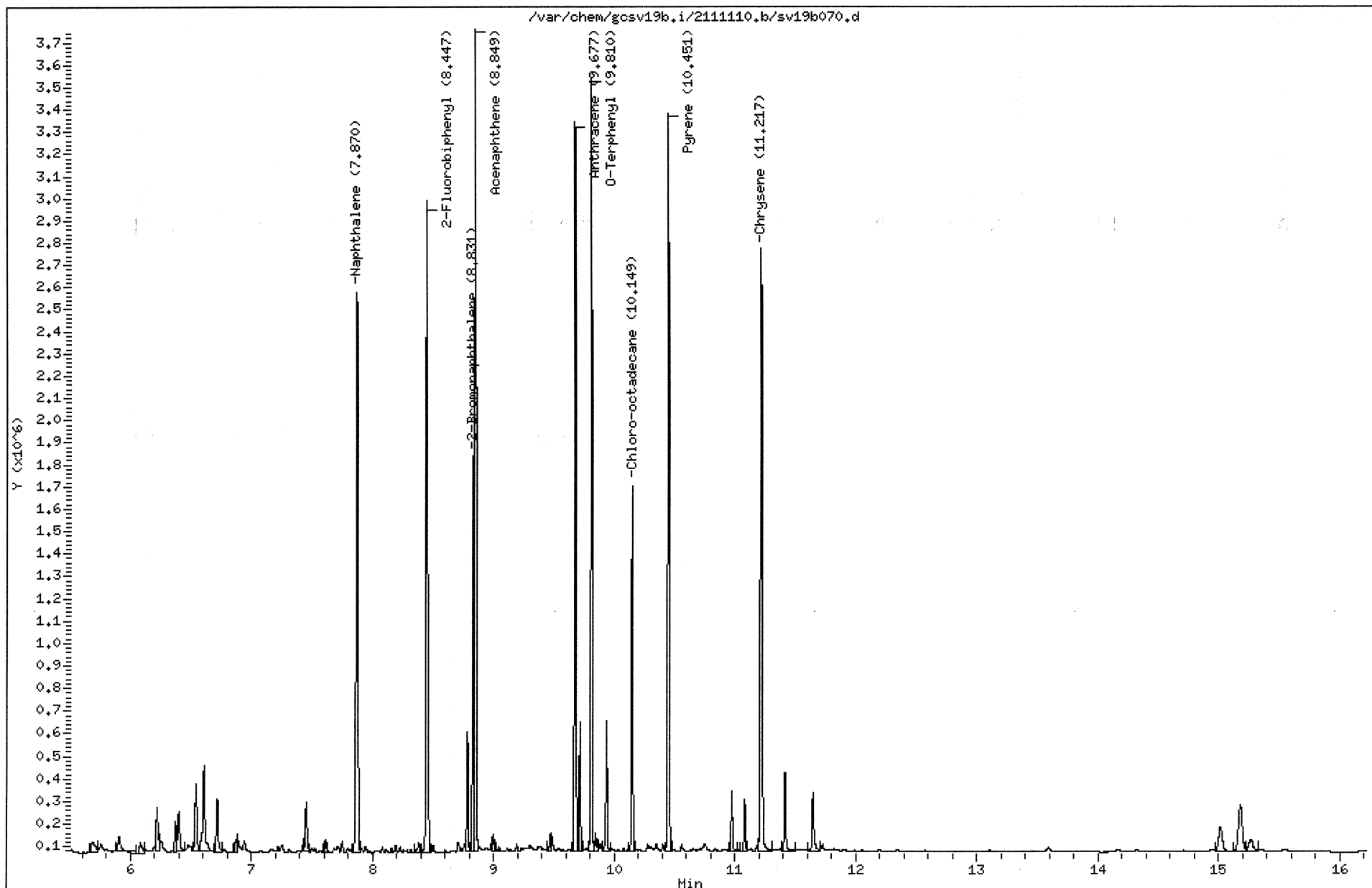
Sample Info: 21110312410x1

Volume Injected (uL): 1.0

Operator: smh

Column phase: DB-5MS-30M

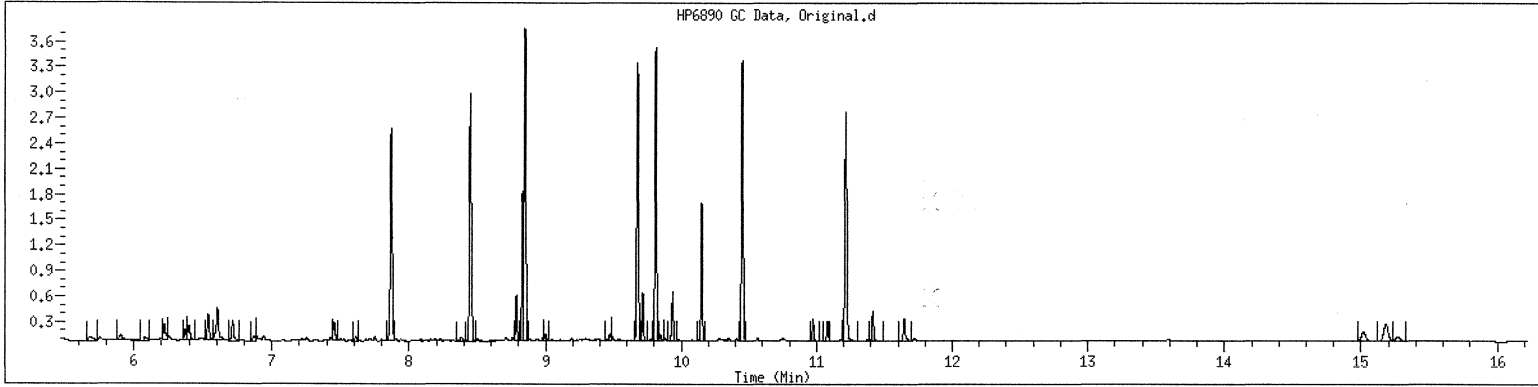
Column diameter: 0.25



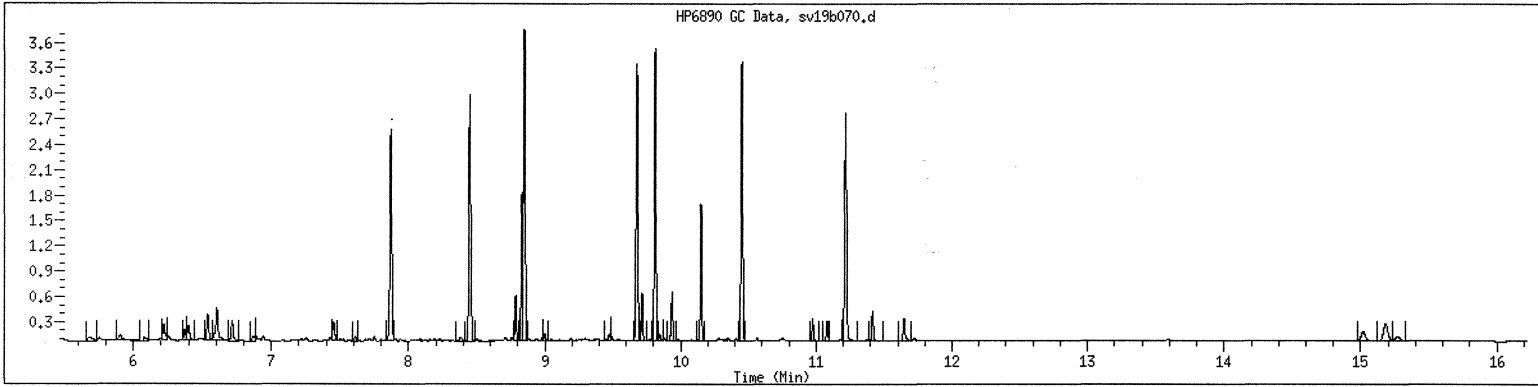
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312410 SampleType : MSD
Injection Date: 11/10/2011 21:40 Instrument : gcsv19b.i
Operator : smh
Sample Info : 21110312410*1
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/AROEPMass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111110.b/sv19b071.d
 Lab Smp Id: 21110312410 Client Smp ID: 1
 Inj Date : 10-NOV-2011 22:04
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21110312410*1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
 Meth Date : 11-Nov-2011 15:05 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 71 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	990.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
10 C-18	8.460	9.503	-1.043	82411281	27.2769	55.1 (M1H)
M 11 Alip C9-C18				82411281	27.2769	55.1
114 C-36	9.720	15.140	-5.420	704269550	240.724	486 (AM1H)
M 24 Alip C19-C36				704269550	240.724	486

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M1- Compound response manually integrated because Target system did not integrate.
- H - Operator selected an alternate compound hit.

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111104.b/sv19b071s.d
 Lab Smp Id: 2111031240 *NEW/11/10* Client Smp ID: 1
 Inj Date : 04-NOV-2011 18:12
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 2111031240 *NEW/11/10* *1 ms
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111104.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 13:57 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 71 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	980.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 C-9	6.228	6.232	-0.004	17636810	6.48569	13.2 (R)
6 C-14	8.463	8.471	-0.008	31294950	10.8733	22.2
M 11 Alip C9-C18				48931760	17.3590	35.4
12 C-19	9.724	9.774	-0.050	43646012	14.4655	29.5
13 C-20	9.946	9.957	-0.011	47976180	15.7541	32.2
\$ 15 Chlorooctadecane	10.159	10.217	-0.058	15508787	5.66101	11.6 (R)
22 C-28	11.676	11.725	-0.049	49801516	16.0858	32.8
M 24 Alip C19-C36				141423708	46.3055	94.5

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Date : 10-NOV-2011 22:04

Client ID: 1

Instrument: gcsv19b.i

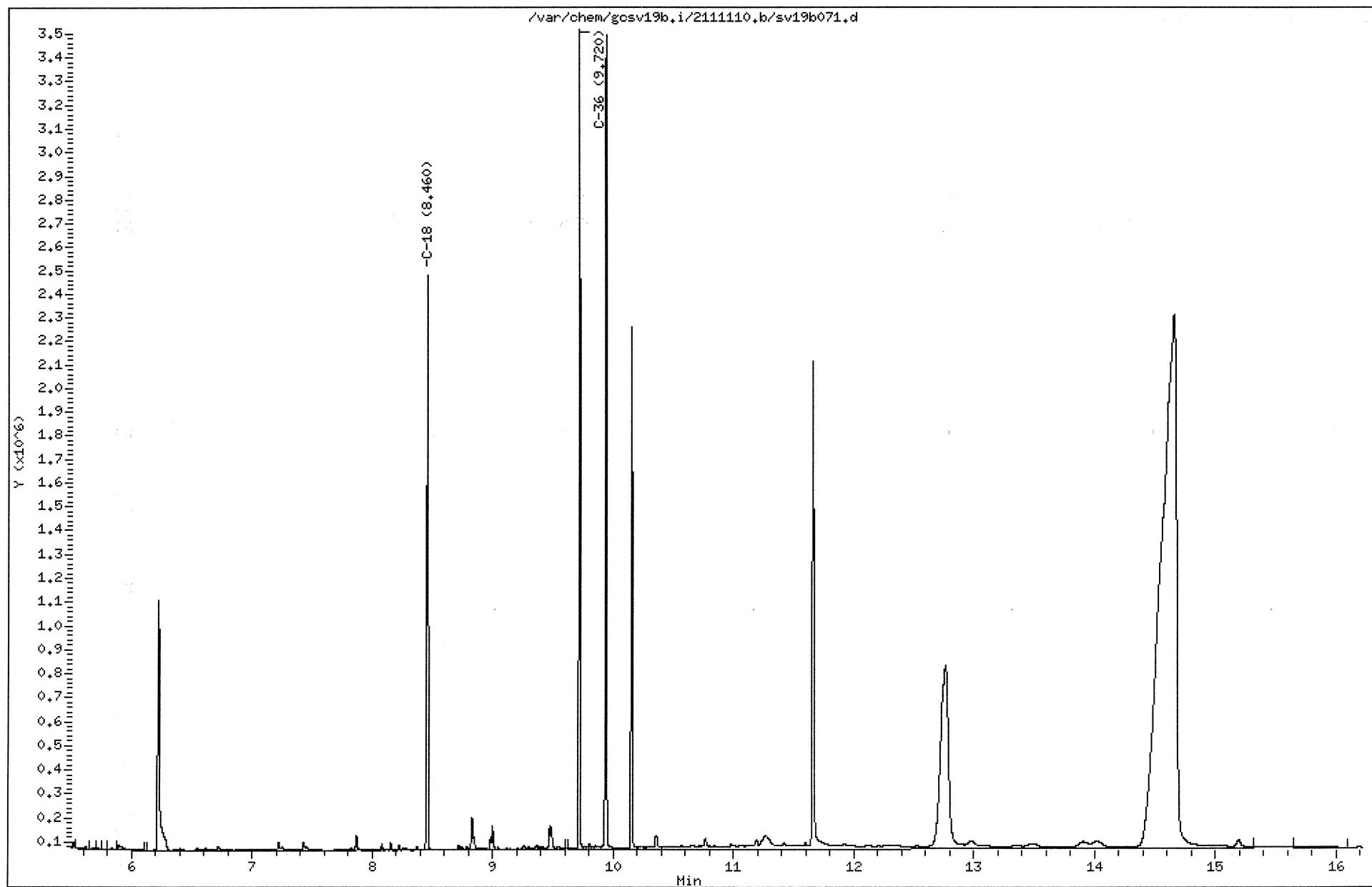
Sample Info: 21110312410*1

Volume Injected (UL): 1.0

Operator: smh

Column phase: DB-5MS-30M

Column diameter: 0.25

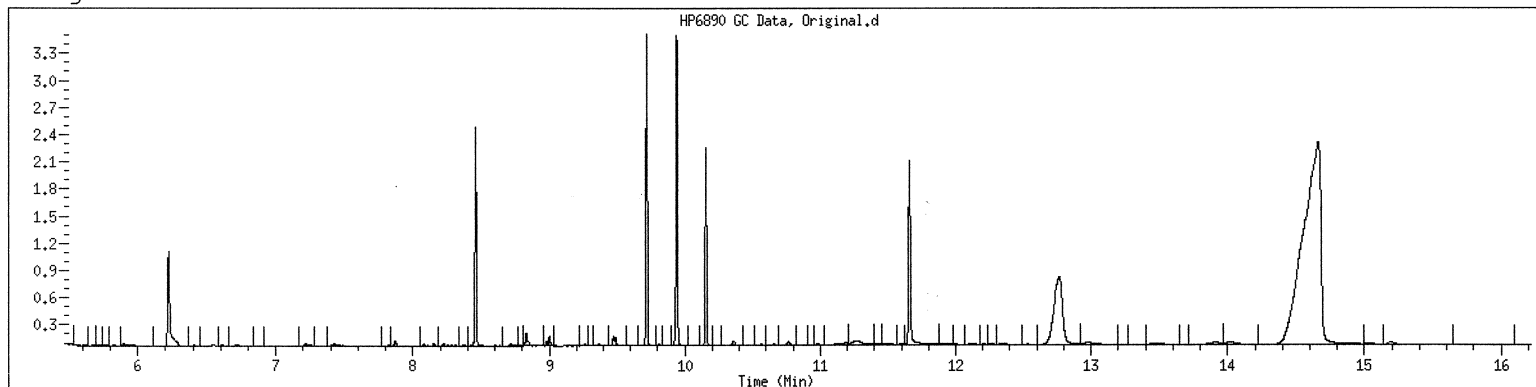


211110257 222

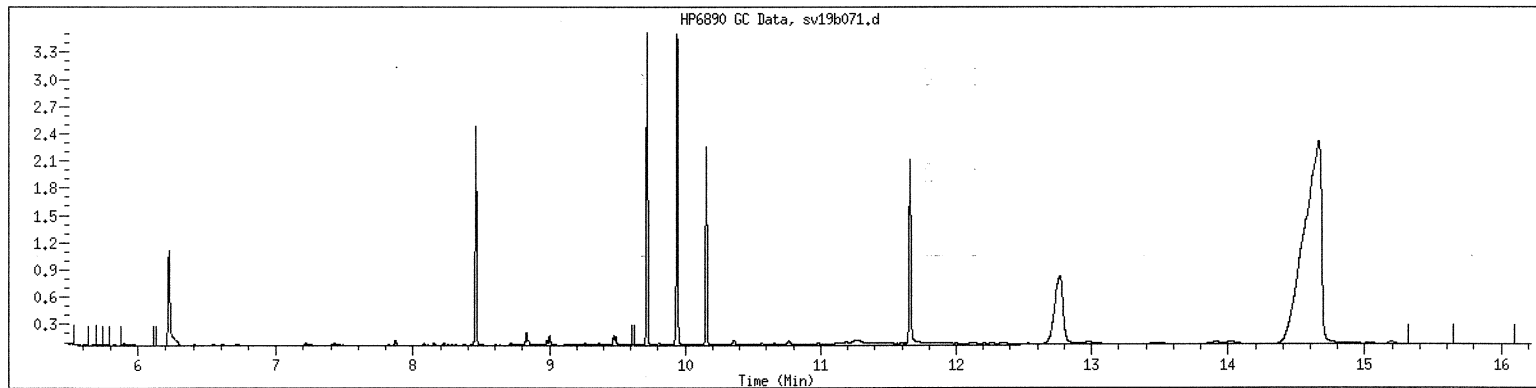
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312410 SampleType : MSD
Injection Date: 11/10/2011 22:04 Instrument : gcsv19b.i
Operator : smh
Sample Info : 21110312410*1
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph

Original



Final



✓ BT

FRACTIONATION SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME: 11/2/11		Start: 0800	End: 11/3/11	BATCH NO:	468306	EPH				
MATRIX:		WATER <input checked="" type="checkbox"/> SOIL <input type="checkbox"/> OTHER <input type="checkbox"/>		LEVEL:		LOW <input checked="" type="checkbox"/> MEDIUM <input type="checkbox"/>				
CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	Init pH	ALIP	AROM	SAMPLE TYPE	METHOD	
1	QC ACCOUNT	MB for HBN 468306 [EXTO/30070]	1002043	1000	20	7	10.0	15.0	MB	SHAKER
2	QC ACCOUNT	LCS for HBN 468306 [EXTO/30070]	1002044	1000	20	7	10.0	15.0	LCS	NA
3	QC ACCOUNT	LCSD for HBN 468306 [EXTO/30070]	1002045	1000	20	7	10.0	15.0	LCSD	SEPARATORY FUNNEL/3510
4	0080	UST 1011 - EPH PE	21110202113	990	20	7.2	10.0	15.0	SAMPLE	8
5	9000	ES046	21110312401	1000	2.0	2.2	10.0	15.0	SAMPLE	SOXHLET/3540
6	9000	ES047	21110312402	990	2.0	2.2	10.0	15.0	SAMPLE	NA
7	9000	ES047 MS	21110312403	980	2.0	2.2	10.0	15.0	MS	
8	9000	ES047 MSD	21110312404	980	2.0	2.2	10.0	15.0	MSD	
9	9000	ES049	21110312405	960	2.0	2.2	10.0	15.0	SAMPLE	
10	9000	ES050	21110312406	990	2.0	2.2	10.0	15.0	SAMPLE	
11	9000	ES051	21110312407	970	2.0	2.2	10.0	15.0	SAMPLE	
12	9000	ES053	21110312408	980	2.0	2.2	10.0	15.0	SAMPLE	
13	9000	ES053 MS	21110312409	990	2.0	2.2	10.0	15.0	MS	
14	9000	ES053 MSD	21110312410	980	2.0	2.2	10.0	15.0	MSD	
15	9000	ES055	21110312411	990	2.0	2.2	10.0	15.0	SAMPLE	
16	9000	ES056	21110312412	990	2.0	2.2	10.0	15.0	SAMPLE	
17										
18										
19										
20										
21										
22										
23										MeCl2 Lot
24										No: 114853
25										HEXANE Lot
26										No: 100351
27										PENTANE Lot
28										No: NA

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

BALANCE ID: NA TEMP: 101

SURROGATE ID	<u>507-29-5</u>	SPIKE ID	<u>507-29-4</u>	<u>Fractionation</u>	<u>507-29-2</u>	TECHNICIAN	DATE
VOLUME	<u>1.0 ml</u>	VOLUME	<u>1.0 ml</u>		<u>1.0 ml</u>	<u>Erica Beyers</u>	<u>11/2/11</u>
CONCENTRATION	<u>400 ug/ml</u>	CONCENTRATION	<u>500 ug/ml</u>		<u>400 ug/ml</u>	<u>Y.M.C.</u>	<u>11/2</u>
						SUPERVISOR	DATE
SPIKE WITNESS	<u>BT</u>					<u>[Signature]</u>	<u>11/3/11</u>

Revision 3, 10/04/2010

FRACTIONATION SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME: 11/8/11		Start: 1100	End: 1140	BATCH NO: 468721	EPH				
MATRIX: WATER <input checked="" type="checkbox"/> SOIL <input type="checkbox"/> OTHER <input type="checkbox"/>		LEVEL: LOW <input checked="" type="checkbox"/> MEDIUM <input type="checkbox"/>							
CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT mL g	FINAL VOLUME (mL)	Init pH	ALIP	AROM	SAMPLE TYPE	METHOD
1	QC ACCOUNT MB for HBN 468721 [EXTO/30116]	1004104	1000	20	7	10.0	16.0	MB	SHAKER
2	QC ACCOUNT LCS for HBN 468721 [EXTO/30116]	1004105	1000	20	7	10.0	15.0	LCS	NA
3	QC ACCOUNT LCSD for HBN 468721 [EXTO/3011]	1004106	1000	20	7	10.0	15.0	LCSD	SEPARATORY FUNNEL/3510
4	9000 ES050	21110312406	990	20	7.2	10.0	15.0	SAMPLE	✓
5	9000 ES053	21110312408	990	20	7.2	10.0	15.0	SAMPLE	SOXHLET/3540
6	9000 ES053 MS	21110312409	990	20	7.2	10.0	15.0	MS	NA
7	9000 ES053 MSD	21110312410	990	20	7.2	10.0	15.0	MSD	
8	9000 ES057	21111042101	990	20	7.2	10.0	15.0	SAMPLE	
9	0080 4Q - GCSV Water LOD	21111031701	1000	20	7	10.0	15.0	SAMPLE	
10	0080 4Q - GCSV Water LOQ	21111031702	1000	20	7	10.0	15.0	SAMPLE	
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									MeCL2 Lot
24									184165
25									HEXANE Lot
26									No:
27									PENTANE Lot
28									No:

COMMENTS: SAMPLE PREPARATION INCLUDE DETERMINATION OF SAMPLE VOLUME/WEIGHT, SOLVENT EXTRACTION AND EVAPORATION OF SOLVENT TO FINAL VOLUME

BALANCE ID: NA

TEMP: 101

SURROGATE ID	507-31-1	SPIKE ID	507-29-4	507-31-2	TECHNICIAN	DATE
VOLUME	1.0 ml	VOLUME	1.0 ml	1.0 ml	Steve Saha	11-8-11
CONCENTRATION	400 ug/ml	CONCENTRATION	50 ug/ml	400 ug/ml		11-8-11
SPIKE WITNESS					SUPERVISOR	DATE
					[Signature]	11/9/11

Revision 3, 10/04/2010

LOD = 200ul spike
LOQ = 400ul spike

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 11/03/2011

Instrument: gcsv19b.i

Method File: /var/chem/gcsv19b.i/2111102.b/AROEPHmass.m

Batch: /var/chem/gcsv19b.i/2111102.b

Column-Detector: DB-5MS-30M

Sample ID	Standard ID	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
dem lot #1118		sv19b051.d	1000.00 ml	02-NOV-2011 15:31	1.000	smh	51	all
1201		sv19b052.d	1000.00 ml	02-NOV-2011 15:55	1.000	smh	52	all
1201		sv19b0521a.d	1000.00 ml	02-NOV-2011 15:55	1.000	smh	52	all
1202		sv19b053.d	1000.00 ml	02-NOV-2011 16:19	1.000	smh	53	all
1202		sv19b0531a.d	1000.00 ml	02-NOV-2011 16:19	1.000	smh	53	all
1203		sv19b054.d	1000.00 ml	02-NOV-2011 16:42	1.000	smh	54	all
1203		sv19b0541a.d	1000.00 ml	02-NOV-2011 16:42	1.000	smh	54	all
1204		sv19b055.d	1000.00 ml	02-NOV-2011 17:07	1.000	smh	55	all
1204		sv19b0551a.d	1000.00 ml	02-NOV-2011 17:07	1.000	smh	55	all
1205		sv19b056.d	1000.00 ml	02-NOV-2011 17:30	1.000	smh	56	all
1205		sv19b0561a.d	1000.00 ml	02-NOV-2011 17:30	1.000	smh	56	all
1600		sv19b057.d	1.00 ml	02-NOV-2011 17:55	1.000	smh	57	all
1600		sv19b0571a.d	1.00 ml	02-NOV-2011 17:55	1.000	smh	57	all
1201		sv19b058.d	1000.00 ml	02-NOV-2011 18:19	1.000	smh	58	ALmasseph
1202		sv19b059.d	1000.00 ml	02-NOV-2011 18:42	1.000	smh	59	ALmasseph
1203		sv19b060.d	1000.00 ml	02-NOV-2011 19:06	1.000	smh	60	ALmasseph
1204		sv19b061.d	1000.00 ml	02-NOV-2011 19:31	1.000	smh	61	ALmasseph
1205		sv19b062.d	1000.00 ml	02-NOV-2011 19:54	1.000	smh	62	ALmasseph
1600		sv19b063.d	1000.00 ml	02-NOV-2011 20:18	1.000	smh	63	all-new

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 11/04/2011

Instrument: gcsv19b.i

Method File: /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m

Batch: /var/chem/gcsv19b.i/2111103.b

Column-Detector: DB-5MS-30M

Sample ID	Standard ID	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
dcm lot #1118		sv19b051.d	1000.00 ml	03-NOV-2011 11:07	1.000	smh	51	ALmasseph
1201		sv19b052.d	1000.00 ml	03-NOV-2011 12:55	1.000	smh	52	ALmasseph
1201		sv19b0521a.d	1000.00 ml	03-NOV-2011 12:55	1.000	smh	52	AlipLA
1201		sv19b052s.d	1000.00 ml	03-NOV-2011 12:55	1.000	smh	52	chloro
1202		sv19b053.d	1000.00 ml	03-NOV-2011 13:18	1.000	smh	53	ALmasseph
1202		sv19b0531a.d	1000.00 ml	03-NOV-2011 13:18	1.000	smh	53	AlipLA
1202		sv19b053s.d	1000.00 ml	03-NOV-2011 13:18	1.000	smh	53	chloro
1203		sv19b054.d	1000.00 ml	03-NOV-2011 13:42	1.000	smh	54	ALmasseph
1203		sv19b0541a.d	1000.00 ml	03-NOV-2011 13:42	1.000	smh	54	AlipLA
1203		sv19b054s.d	1000.00 ml	03-NOV-2011 13:42	1.000	smh	54	chloro
1204		sv19b055.d	1000.00 ml	03-NOV-2011 14:06	1.000	smh	55	ALmasseph
1204		sv19b0551a.d	1000.00 ml	03-NOV-2011 14:06	1.000	smh	55	AlipLA
1204		sv19b055s.d	1000.00 ml	03-NOV-2011 14:06	1.000	smh	55	chloro
1205		sv19b056.d	1000.00 ml	03-NOV-2011 14:30	1.000	smh	56	ALmasseph
1205		sv19b0561a.d	1000.00 ml	03-NOV-2011 14:30	1.000	smh	56	AlipLA
1205		sv19b056s.d	1000.00 ml	03-NOV-2011 14:30	1.000	smh	56	chloro
1600		sv19b057.d	1.00 ml	03-NOV-2011 14:54	1.000	smh	57	ALmasseph
1600		sv19b0571a.d	1.00 ml	03-NOV-2011 14:54	1.000	smh	57	ALmasseph

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 11/08/2011

Instrument: gcsv19b.i

Method File: /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m

Batch: /var/chem/gcsv19b.i/2111104.b

Column-Detector: DB-5MS-30M

Sample ID	Standard ID	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
dcm lot #1118		sv19b051.d	1000.00 ml	04-NOV-2011 08:24	1.000	smh	51	all
1400		sv19b052.d	1000.00 ml	04-NOV-2011 08:48	1.000	smh	52	all
1400		sv19b053.d	1000.00 ml	04-NOV-2011 09:12	1.000	smh	53	ALmasseph
1002043		sv19b054.d	1000.00 ml	04-NOV-2011 11:18	1.000	smh	54	all
1002043		sv19b055.d	1000.00 ml	04-NOV-2011 11:42	1.000	smh	55	ALmasseph
1002043		sv19b055s.d	1000.00 ml	04-NOV-2011 11:42	1.000	smh	55	Chloro
1002044		sv19b056.d	1000.00 ml	04-NOV-2011 12:06	1.000	smh	56	all
1002044		sv19b057.d	1000.00 ml	04-NOV-2011 12:30	1.000	smh	57	ALmasseph
1002045		sv19b058.d	1000.00 ml	04-NOV-2011 12:54	1.000	smh	58	all
1002045		sv19b059.d	1000.00 ml	04-NOV-2011 13:18	1.000	smh	59	ALmasseph
21110202113		sv19b060.d	990.00 ml	04-NOV-2011 13:43	1.000	smh	60	all
21110202113		sv19b061.d	990.00 ml	04-NOV-2011 14:07	1.000	smh	61	ALmasseph
21110312401		sv19b062.d	1000.00 ml	04-NOV-2011 14:31	1.000	smh	62	all
21110312401		sv19b062s.d	1000.00 ml	04-NOV-2011 14:31	1.000	smh	62	surr
21110312401		sv19b063.d	1000.00 ml	04-NOV-2011 14:56	1.000	smh	63	ALmasseph
21110312401		sv19b063s.d	1000.00 ml	04-NOV-2011 14:56	1.000	smh	63	Chloro
1400		sv19b064.d	1000.00 ml	04-NOV-2011 15:20	1.000	smh	64	all
1400		sv19b065.d	1000.00 ml	04-NOV-2011 15:45	1.000	smh	65	ALmasseph
21110312402		sv19b068.d	990.00 ml	04-NOV-2011 16:58	1.000	smh	68	all
21110312402		sv19b068s.d	990.00 ml	04-NOV-2011 16:58	1.000	smh	68	surr
21110312402		sv19b069.d	990.00 ml	04-NOV-2011 17:23	1.000	smh	69	ALmasseph
21110312402		sv19b069s.d	990.00 ml	04-NOV-2011 17:23	1.000	smh	69	Chloro
21110312403		sv19b070.d	980.00 ml	04-NOV-2011 17:47	1.000	smh	70	all
21110312403		sv19b070s.d	980.00 ml	04-NOV-2011 17:47	1.000	smh	70	all
21110312403		sv19b071.d	980.00 ml	04-NOV-2011 18:12	1.000	smh	71	ALmasseph
21110312403		sv19b071s.d	980.00 ml	04-NOV-2011 18:12	1.000	smh	71	ALmasseph
21110312404		sv19b072.d	980.00 ml	04-NOV-2011 18:36	1.000	smh	72	all
21110312404		sv19b072s.d	980.00 ml	04-NOV-2011 18:36	1.000	smh	72	all
21110312404		sv19b073.d	980.00 ml	04-NOV-2011 19:01	1.000	smh	73	ALmasseph
21110312404		sv19b073s.d	980.00 ml	04-NOV-2011 19:01	1.000	smh	73	ALmasseph
21110312405		sv19b074.d	960.00 ml	04-NOV-2011 19:25	1.000	smh	74	all
21110312405		sv19b075.d	960.00 ml	04-NOV-2011 19:49	1.000	smh	75	ALmasseph
21110312405		sv19b075s.d	960.00 ml	04-NOV-2011 19:49	1.000	smh	75	Chloro
21110312406		sv19b076.d	990.00 ml	04-NOV-2011 20:13	1.000	smh	76	all
21110312406		sv19b077.d	990.00 ml	04-NOV-2011 20:38	1.000	smh	77	ALmasseph
21110312406		sv19b077s.d	990.00 ml	04-NOV-2011 20:38	1.000	smh	77	Chloro

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 11/08/2011

Instrument: gcsv19b.i

Method File: /var/chem/gcsv19b.i/2111104.b/AROEPHmass.m

Batch: /var/chem/gcsv19b.i/2111104.b

Column-Detector: DB-5MS-30M

Sample ID	Standard ID	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
1400		sv19b078.d	1000.00 ml	04-NOV-2011 21:02	1.000	smh	78	all
1400		sv19b079.d	1000.00 ml	04-NOV-2011 21:26	1.000	smh	79	ALmasseph
21110312407		sv19b082.d	970.00 ml	04-NOV-2011 22:38	1.000	smh	82	all
21110312407		sv19b083.d	970.00 ml	04-NOV-2011 23:02	1.000	smh	83	ALmasseph
21110312407		sv19b083s.d	970.00 ml	04-NOV-2011 23:02	1.000	smh	83	Chloro
21110312408		sv19b084.d	980.00 ml	04-NOV-2011 23:26	1.000	smh	84	all
21110312408		sv19b085.d	980.00 ml	04-NOV-2011 23:50	1.000	smh	85	ALmasseph
21110312408		sv19b085s.d	980.00 ml	04-NOV-2011 23:50	1.000	smh	85	Chloro
21110312409		sv19b086.d	990.00 ml	05-NOV-2011 00:14	1.000	smh	86	all
21110312409		sv19b087.d	990.00 ml	05-NOV-2011 00:38	1.000	smh	87	ALmasseph
21110312409		sv19b087s.d	990.00 ml	05-NOV-2011 00:38	1.000	smh	87	Chloro
21110312410		sv19b088.d	980.00 ml	05-NOV-2011 01:02	1.000	smh	88	all
21110312410		sv19b089.d	980.00 ml	05-NOV-2011 01:26	1.000	smh	89	ALmasseph
21110312410		sv19b089s.d	980.00 ml	05-NOV-2011 01:26	1.000	smh	89	Chloro
21110312411		sv19b090.d	990.00 ml	05-NOV-2011 01:50	1.000	smh	90	all
21110312411		sv19b091.d	990.00 ml	05-NOV-2011 02:14	1.000	smh	91	ALmasseph
21110312411		sv19b091s.d	990.00 ml	05-NOV-2011 02:14	1.000	smh	91	Chloro
1400		sv19b092.d	1000.00 ml	05-NOV-2011 02:38	1.000	smh	92	all
1400		sv19b093.d	1000.00 ml	05-NOV-2011 03:02	1.000	smh	93	ALmasseph
1400		sv19b094.d	1000.00 ml	05-NOV-2011 03:26	1.000	smh	92	all
1400		sv19b095.d	1000.00 ml	05-NOV-2011 03:49	1.000	smh	93	AlipLA
21110312412		sv19b096.d	990.00 ml	05-NOV-2011 04:13	1.000	smh	96	all
21110312412		sv19b097.d	990.00 ml	05-NOV-2011 04:37	1.000	smh	97	ALmasseph
21110312412		sv19b097s.d	990.00 ml	05-NOV-2011 04:37	1.000	smh	97	Chloro
1002322		sv19b098.d	1000.00 ml	05-NOV-2011 05:00	1.000	smh	98	all
1002322		sv19b099.d	1000.00 ml	05-NOV-2011 05:24	1.000	smh	99	AlipLA
1002322		sv19b099s.d	1000.00 ml	05-NOV-2011 05:24	1.000	smh	99	chloro
1002323		sv19b101.d	1000.00 ml	05-NOV-2011 05:48	1.000	smh	1	all
1002323		sv19b102.d	1000.00 ml	05-NOV-2011 06:11	1.000	smh	2	AlipLA
1002324		sv19b103.d	1000.00 ml	05-NOV-2011 06:35	1.000	smh	3	all
1002324		sv19b104.d	1000.00 ml	05-NOV-2011 06:58	1.000	smh	4	AlipLA
21110250603		sv19b105.d	960.00 ml	05-NOV-2011 07:22	1.000	smh	5	all
21110250603		sv19b105s.d	960.00 ml	05-NOV-2011 07:22	1.000	smh	5	surr
21110250603		sv19b106.d	960.00 ml	05-NOV-2011 07:45	1.000	smh	6	AlipLA
21110250603		sv19b106s.d	960.00 ml	05-NOV-2011 07:45	1.000	smh	6	Chloro
1400		sv19b107.d	1000.00 ml	05-NOV-2011 08:09	1.000	smh	7	all

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 11/11/2011

Instrument: gcsv19b.i

Method File: /var/chem/gcsv19b.i/2111110.b/AROEPHmass.m

Batch: /var/chem/gcsv19b.i/2111110.b

Column-Detector: DB-5MS-30M

Sample ID	Standard ID	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
dcm lot #1118		sv19b051.d	1000.00 ml	10-NOV-2011 13:49	1.000	smh	51	all
1400		sv19b052.d	1000.00 ml	10-NOV-2011 14:13	1.000	smh	52	cal
1400		sv19b053.d	1000.00 ml	10-NOV-2011 14:37	1.000	smh	53	ALmasseph
1004104		sv19b054.d	1000.00 ml	10-NOV-2011 15:15	1.000	smh	54	all
1004104		sv19b055.d	1000.00 ml	10-NOV-2011 15:39	1.000	smh	55	ALmasseph
1004105		sv19b056.d	1000.00 ml	10-NOV-2011 16:03	1.000	smh	56	all
1004105		sv19b057.d	1000.00 ml	10-NOV-2011 16:27	1.000	smh	57	ALmasseph
1004106		sv19b058.d	1000.00 ml	10-NOV-2011 16:51	1.000	smh	58	all
1004106		sv19b059.d	1000.00 ml	10-NOV-2011 17:15	1.000	smh	59	ALmasseph
21110312406		sv19b060.d	990.00 ml	10-NOV-2011 17:40	1.000	smh	60	all
21110312406		sv19b061.d	990.00 ml	10-NOV-2011 18:04	1.000	smh	61	ALmasseph
21110312408		sv19b062.d	990.00 ml	10-NOV-2011 18:28	1.000	smh	62	all
21110312408		sv19b063.d	990.00 ml	10-NOV-2011 18:52	1.000	smh	63	ALmasseph
21110312408		sv19b063s.d	990.00 ml	10-NOV-2011 18:52	1.000	smh	63	Chloro
1400		sv19b064.d	1000.00 ml	10-NOV-2011 19:16	1.000	smh	64	cal
1400		sv19b065.d	1000.00 ml	10-NOV-2011 19:40	1.000	smh	65	ALmasseph
1400		sv19b066.d	1000.00 ml	10-NOV-2011 20:04	1.000	smh	64	cal
1400		sv19b067.d	1000.00 ml	10-NOV-2011 20:28	1.000	smh	65	ALmasseph
21110312409		sv19b068.d	990.00 ml	10-NOV-2011 20:52	1.000	smh	68	all
21110312409		sv19b069.d	990.00 ml	10-NOV-2011 21:16	1.000	smh	69	ALmasseph
21110312409		sv19b069s.d	990.00 ml	10-NOV-2011 21:16	1.000	smh	69	Chloro
21110312410		sv19b070.d	990.00 ml	10-NOV-2011 21:40	1.000	smh	70	all
21110312410		sv19b071.d	990.00 ml	10-NOV-2011 22:04	1.000	smh	71	ALmasseph
21110312410		sv19b071s.d	990.00 ml	10-NOV-2011 22:04	1.000	smh	71	Chloro
21111042101		sv19b072.d	990.00 ml	10-NOV-2011 22:29	1.000	smh	72	all
21111042101		sv19b073.d	990.00 ml	10-NOV-2011 22:53	1.000	smh	73	ALmasseph
21111031701		sv19b074.d	1000.00 ml	10-NOV-2011 23:17	1.000	smh	74	all
21111031701		sv19b075.d	1000.00 ml	10-NOV-2011 23:41	1.000	smh	75	ALmasseph
21111031702		sv19b076.d	1000.00 ml	11-NOV-2011 00:05	1.000	smh	76	all
21111031702		sv19b077.d	1000.00 ml	11-NOV-2011 00:29	1.000	smh	77	ALmasseph
1400		sv19b078.d	1000.00 ml	11-NOV-2011 00:54	1.000	smh	78	cal
1400		sv19b079.d	1000.00 ml	11-NOV-2011 01:18	1.000	smh	79	ALmasseph
1400		sv19b080.d	1000.00 ml	11-NOV-2011 01:42	1.000	smh	78	cal
1400		sv19b081.d	1000.00 ml	11-NOV-2011 02:07	1.000	smh	79	ALmasseph

2E
WATER ORGANIC SURROGATE RECOVERY

Lab Name: GCAL Contract: _____

Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 211110257

GC Column (1): _____ ID: _____ (mm) GC Cloumn (2): _____ ID: _____ (mm)

Method: MASSVPH

EPA SAMPLE NO.	SMC1				SMC1				SMC2				SMC2				TOT OUT
	1-(1)	Lo	Hi	F	1-(2)	Lo	Hi	F	2-(1)	Lo	Hi	F	2-(2)	Lo	Hi	F	
1. ES050	105	70	130						102	70	130						0
2. ES051	103	70	130						104	70	130						0
3. MB1003187	100	70	130						96	70	130						0
4. LCS1003188	104	70	130						98	70	130						0

SMC 1 : 2,5-Dibromotoluene (PID)

SMC 2 : 2,5-Dibromotoluene (FID)

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

3E
WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL
Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 211110257
Contract: _____ Method: MASSVPH
Prep Batch: _____ Analytical Batch: 468512

SAMPLE NO : 1003188

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
C5-C8 Aliphatic	ug/L	200	0	152	76		60 - 140
C9-C10 Aromatic	ug/L	50	0	54.4	109		60 - 140
C9-C12 Aliphatic	ug/L	100	0	105	105		60 - 140

RPD : 0 out of 0 outside limits
Spike Recovery: 0 out of 3 outside limits

FORM III ORG-1

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3E
WATER ORGANICS MS/MSD RECOVERY

Lab Name: GCAL Sample ID: ES053
 Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 211110257
 Contract: _____ Method: MASSVPH
 Prep Batch: _____ Analytical Batch: 468512

SAMPLE NO : 21110312409

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	MS CONCENTRATION	MS % REC	MS % REC FLAG	QC. LIMITS
C5-C8 Aliphatic	ug/L	200	0	156	78		60 - 140
C9-C10 Aromatic	ug/L	50	0	61.2	122		60 - 140
C9-C12 Aliphatic	ug/L	100	0	112	112		60 - 140

SAMPLE NO : 21110312410

COMPOUND	UNITS	SPIKE ADDED	MSD CONC.	MSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	RPD
C5-C8 Aliphatic	ug/L	200	170	85		9		60 - 140	0 - 30
C9-C10 Aromatic	ug/L	50	61	122		.3		60 - 140	0 - 30
C9-C12 Aliphatic	ug/L	100	117	117		4		60 - 140	0 - 30

RPD : 0 out of 3 outside limits

Spike Recovery: 0 out of 6 outside limits

ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL Sample ID: MB1003187
 Lab Code: LA024 Case No.: _____ Contract: _____
 Lab Sample ID: 1003187 SAS No.: _____ SDG No.: 211110257
 Matrix: Water Sulfur Cleanup: (Y/N) N Date Extracted: _____
 Date Analyzed (1): 11/07/11 Time (1): 1221 Date Analyzed (2): _____ Time (2): _____
 Instrument ID (1): GCV5B Instrument ID (2): _____ (mm)
 GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____
 Method: MASSVPH Prep Batch: _____ Analytical Batch: 468512
 Lab File ID: 2111107/v5003

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	<i>SAMPLE NO.</i>	<i>LAB SAMPLE ID</i>	<i>DATE ANALYZED</i>	<i>TIME ANALYZED</i>	<i>INSTRUMENT ID</i>
1.	LCS1003188	1003188	11/07/11	1151	GCV5B
2.	ES050	21110312406	11/07/11	2054	GCV5B
3.	ES051	21110312407	11/07/11	2123	GCV5B

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: ES050
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211110257
 Sample wt/vol: 5 Units: mL Lab Sample ID: 21110312406
 Level: (low/med) _____ Date Collected: 10/25/11 Time: 0950
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 10/29/11
 GC Column: _____ ID: _____ (mm) Date Extracted: _____
 Concentrated Extract Volume: 5000 (µL) Date Analyzed: 11/07/11 Time: 2054
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: JAR
 Injection Volume: 1 (µL) Prep Method: _____
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSVPH
 Prep Batch: _____ Analytical Batch: 468512 Sulfur Cleanup: (Y/N) N Instrument ID: GCV5B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111107/v5017

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCV-00-4	C5-C8 Aliphatic	15.0	U	3.31	15.0	30.0
GCV-00-6	C9-C10 Aromatic	5.00	U	1.24	5.00	10.0
GCV-00-5	C9-C12 Aliphatic	10.0	U	3.20	10.0	20.0

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5017.d
 Lab Smp Id: 21110312406 Client Smp ID: 21110312406
 Inj Date : 07-NOV-2011 20:54
 Operator : JAR Inst ID: gcv5b.i
 Smp Info : 21110312406
 Misc Info :
 Comment :
 Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
 Meth Date : 08-Nov-2011 13:39 jar Quant Type: ESTD
 Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: aromatic.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
=====	==	=====	=====	=====	=====	=====
\$ 10 2,5-Dibromotoluene	21.783	21.781	0.002	365743	52.3083	52.3

Data File: /var/chem/gov5b.i/2111107.b/v5017.d

Page 1

Date : 07-NOV-2011 20:54

Client ID: 21110312406

Instrument: gov5b.i

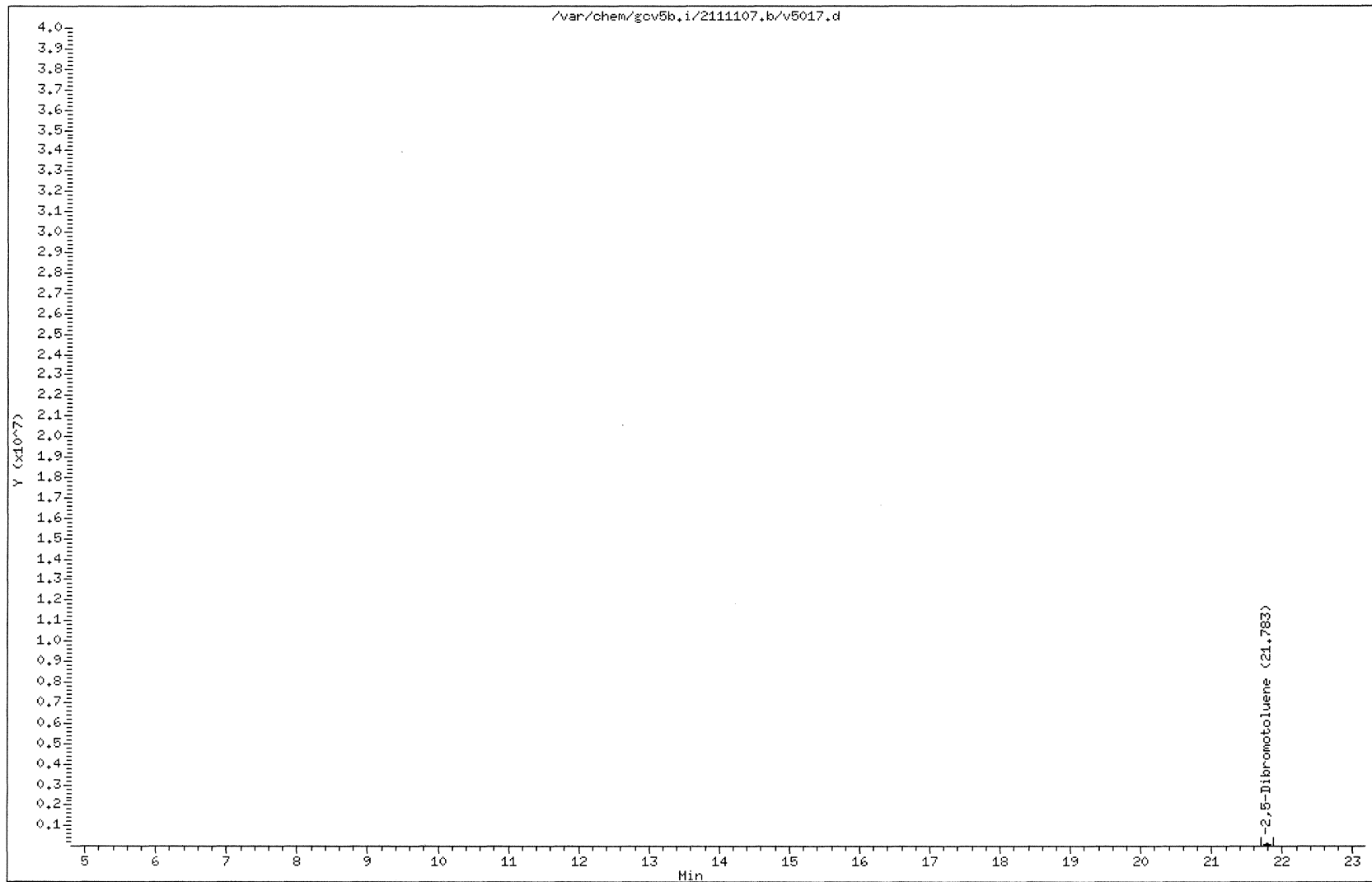
Sample Info: 21110312406

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

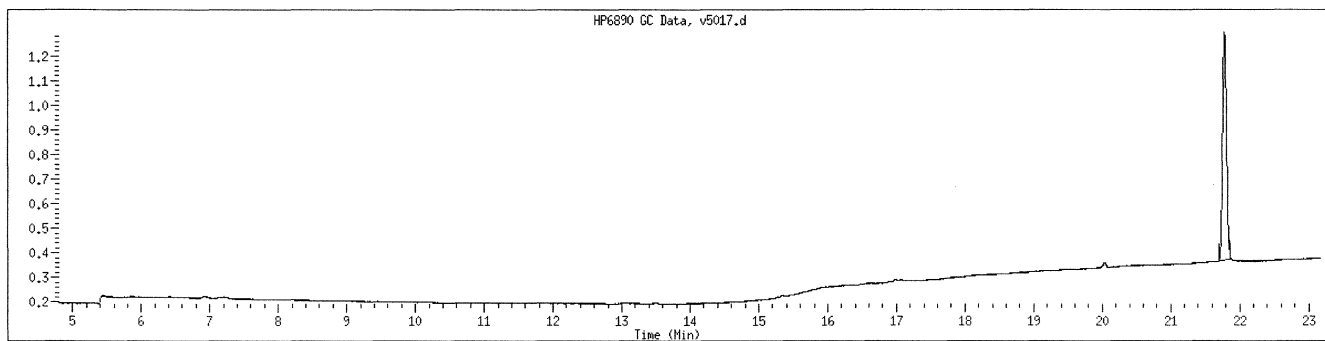
Column diameter: 0.53



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312406 SampleType : SAMPLE
Injection Date: 11/07/2011 20:54 Instrument : gcv5b.i
Operator : JAR
Sample Info : 21110312406
Misc Info :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5017.d
Lab Smp Id: 21110312406 Client Smp ID: 21110312406
Inj Date : 07-NOV-2011 20:54
Operator : JAR Inst ID: gcv5a.i
Smp Info : 21110312406
Misc Info :
Comment :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Meth Date : 08-Nov-2011 10:11 jar Quant Type: ESTD
Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: aliphatic1+surr.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
§ 17 2,5-Dibromotoluene	21.296	21.301	-0.005	152299	50.9421	50.9

Date : 07-NOV-2011 20:54

Client ID: 21110312406

Instrument: gcv5a.i

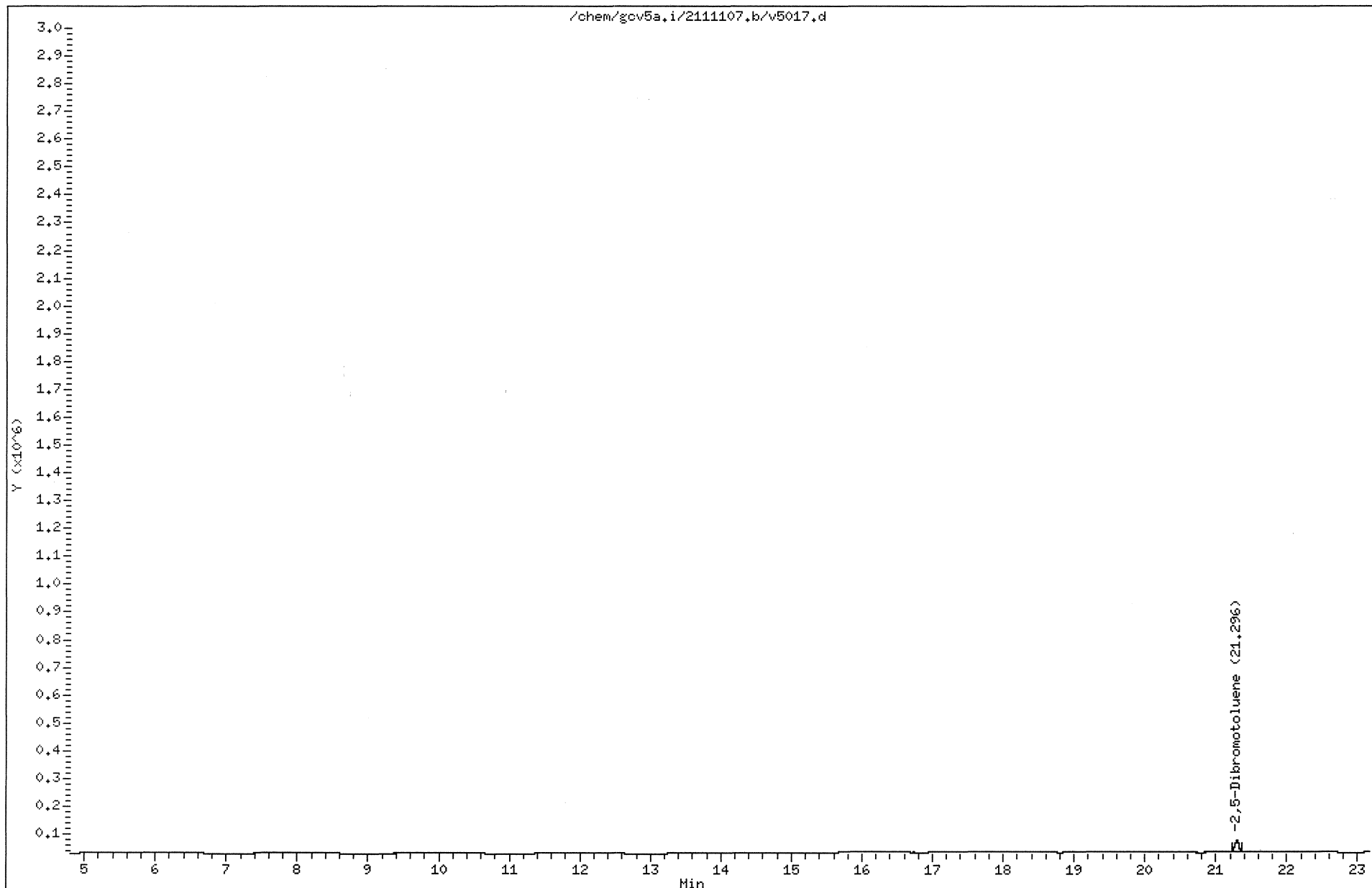
Sample Info: 21110312406

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

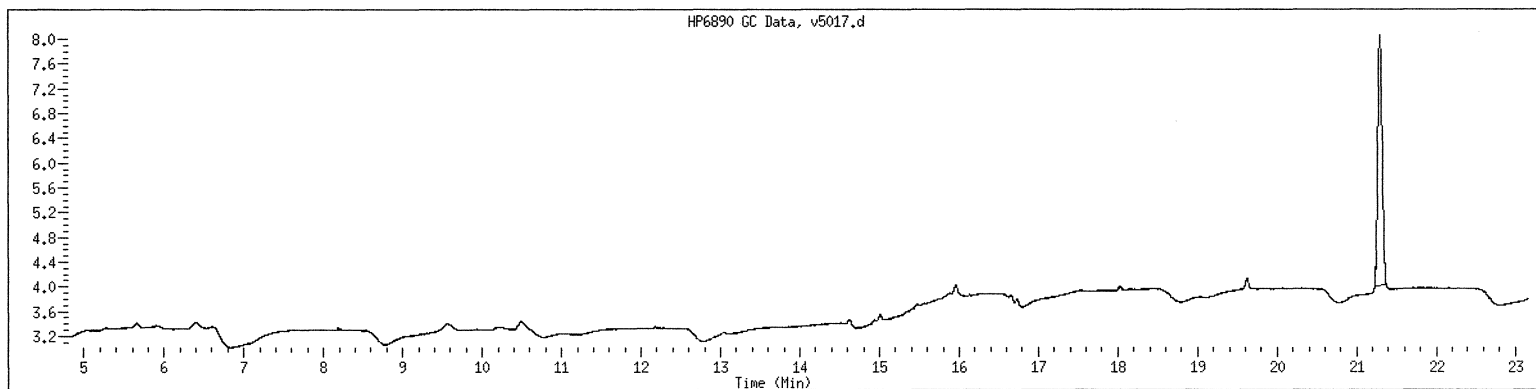
Column diameter: 0.53



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312406 SampleType : SAMPLE
Injection Date: 11/07/2011 20:54 Instrument : gcv5a.i
Operator : JAR
Sample Info : 21110312406
Misc Info :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr



NO MANUAL INTEGRATIONS

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: ES051
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211110257
 Sample wt/vol: 5 Units: mL Lab Sample ID: 21110312407
 Level: (low/med) _____ Date Collected: 10/25/11 Time: 1130
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 10/29/11
 GC Column: _____ ID: _____ (mm) Date Extracted: _____
 Concentrated Extract Volume: 5000 (µL) Date Analyzed: 11/07/11 Time: 2123
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: JAR
 Injection Volume: 1 (µL) Prep Method: _____
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSVPH
 Prep Batch: _____ Analytical Batch: 468512 Sulfur Cleanup: (Y/N) N Instrument ID: GCV5B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111107/v5018

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCV-00-4	C5-C8 Aliphatic	15.0	U	3.31	15.0	30.0
GCV-00-6	C9-C10 Aromatic	5.00	U	1.24	5.00	10.0
GCV-00-5	C9-C12 Aliphatic	10.0	U	3.20	10.0	20.0

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5018.d
Lab Smp Id: 21110312407 Client Smp ID: 21110312407
Inj Date : 07-NOV-2011 21:23
Operator : JAR Inst ID: gcv5b.i
Smp Info : 21110312407
Misc Info :
Comment :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Meth Date : 08-Nov-2011 13:39 jar Quant Type: ESTD
Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: aromatic.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
=====	==	=====	=====	=====	=====	=====
\$ 10 2,5-Dibromotoluene	21.779	21.781	-0.002	360179	51.5125	51.5

Data File: /var/chem/gov5b.i/2111107.b/v5018.d

Page 1

Date : 07-NOV-2011 21:23

Client ID: 21110312407

Instrument: gov5b.i

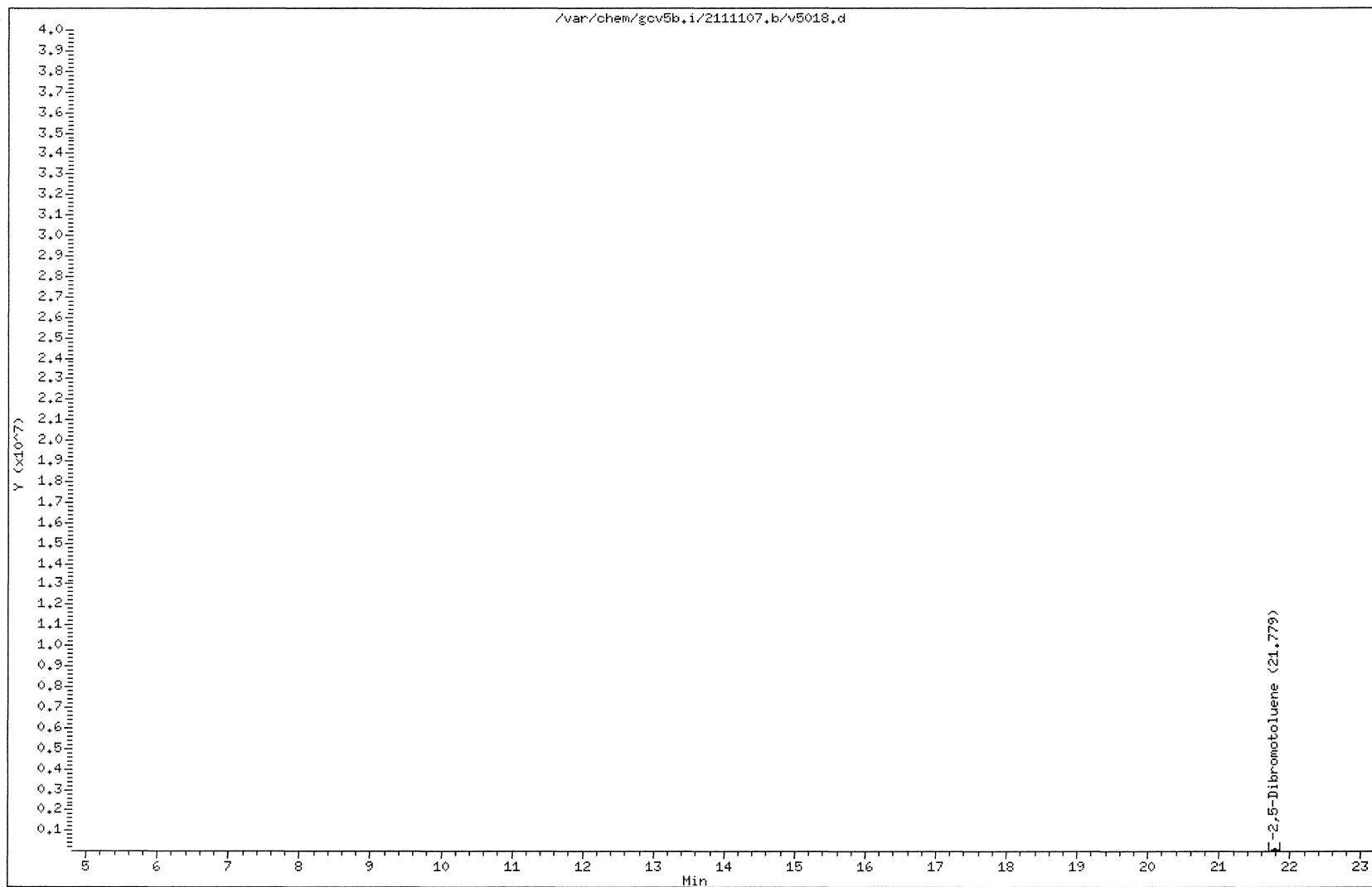
Sample Info: 21110312407

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

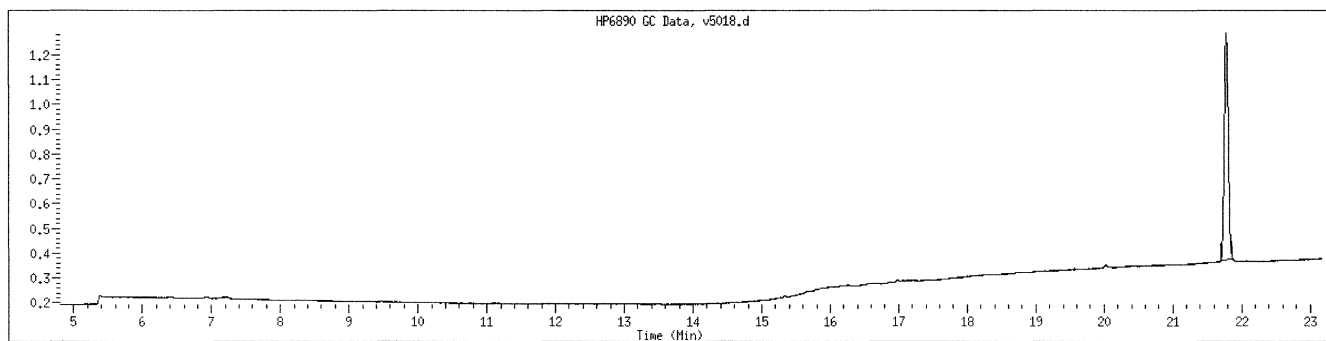


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Report Date: 11/08/2011 13:41

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312407 SampleType : SAMPLE
Injection Date: 11/07/2011 21:23 Instrument : gcv5b.i
Operator : JAR
Sample Info : 21110312407
Misc Info :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5018.d
Lab Smp Id: 21110312407 Client Smp ID: 21110312407
Inj Date : 07-NOV-2011 21:23
Operator : JAR Inst ID: gcv5a.i
Smp Info : 21110312407
Misc Info :
Comment :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Meth Date : 08-Nov-2011 10:11 jar Quant Type: ESTD
Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: aliphatic1+surr.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
=====	==	=====	=====	=====	=====	=====
\$ 17 2,5-Dibromotoluene	21.291	21.301	-0.010	155276	51.9378	51.9

Data File: /chem/gcv5a.i/2111107.b/v5018.d

Page 1

Date : 07-NOV-2011 21:23

Client ID: 21110312407

Instrument: gcv5a.i

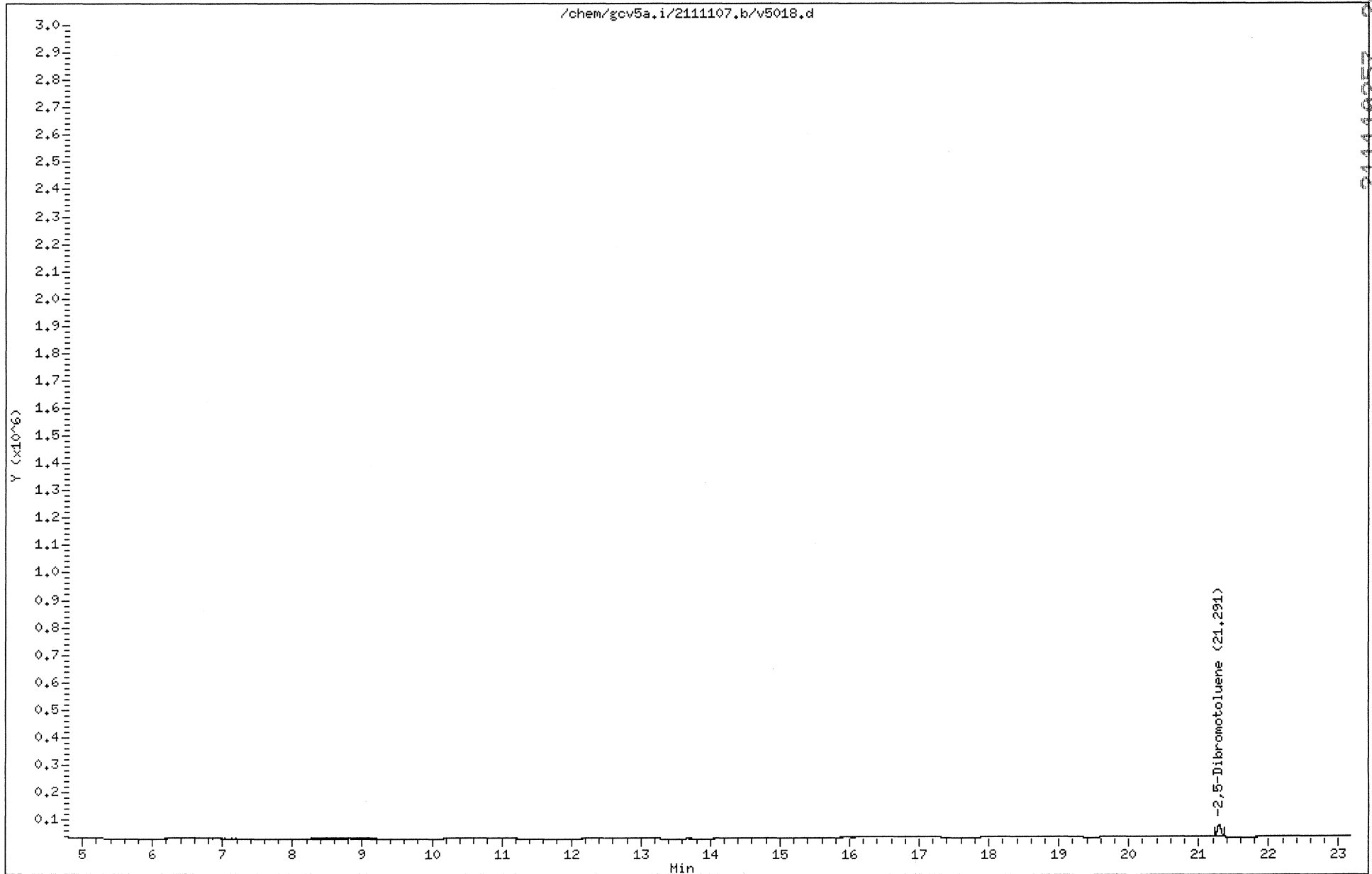
Sample Info: 21110312407

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

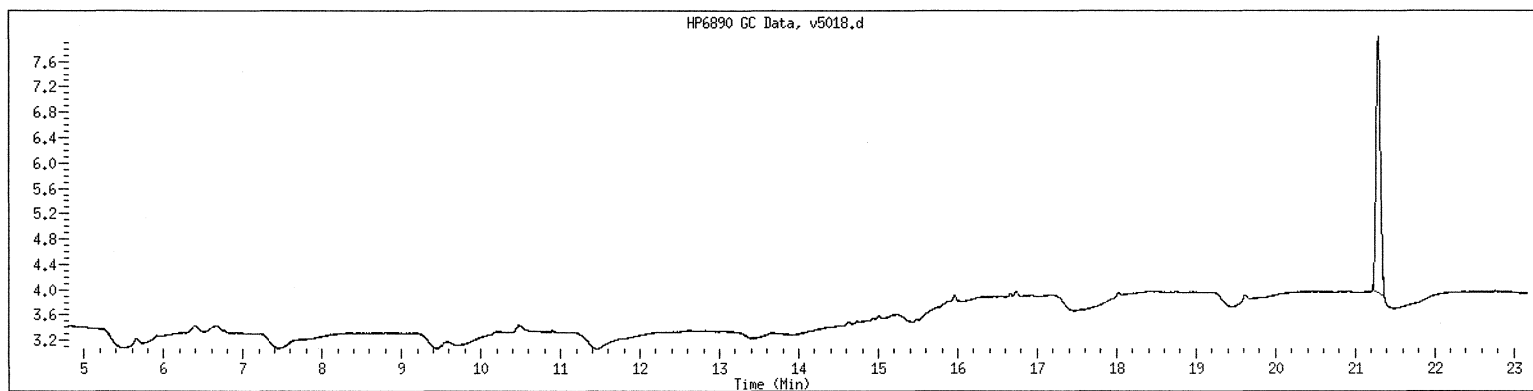
Column diameter: 0.53



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312407 SampleType : SAMPLE
Injection Date: 11/07/2011 21:23 Instrument : gcv5a.i
Operator : JAR
Sample Info : 21110312407
Misc Info :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr



NO MANUAL INTEGRATIONS

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-OCT-2011 17:26
 End Cal Date : 05-NOV-2011 01:52
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
 Cal Date : 08-Nov-2011 15:58 jar
 Curve Type : Average

Calibration File Names:

Level 1: /var/chem/gcv5b.i/2111104P.b/v5003.d
 Level 2: /var/chem/gcv5b.i/2111104P.b/v5005.d
 Level 3: /var/chem/gcv5b.i/2111104P.b/v5007.d
 Level 4: /var/chem/gcv5b.i/2111104P.b/v5009.d
 Level 5: /var/chem/gcv5b.i/2111104P.b/v5011.d
 Level 6: /var/chem/gcv5b.i/2111104P.b/v5001.d

Compound	10.000 Level 1	20.000 Level 2	50.000 Level 3	80.000 Level 4	100.000 Level 5	5.000 Level 6	RRF	% RSD
1 MTBE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Ethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 m,p-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 o-Xylene	14195|	13955|	13772|	12590|	12083|	14822|	13570|	7.600|
7 1,2,4-Trimethylbenzene	12356|	12603|	12435|	11425|	10922|	12432|	12029|	5.703|
8 Naphthalene	10595|	10426|	10486|	9839|	9920|	9852|	10186|	3.453|
M 9 C9-C10	12356|	12603|	12435|	11425|	10922|	12432|	12029|	5.703|
\$ 10 2,5-Dibromotoluene	7122|	6944|	7032|	6909|	6886|	7060|	6992|	1.337|

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-OCT-2011 17:26
End Cal Date : 05-NOV-2011 01:52
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Cal Date : 08-Nov-2011 15:58 jar
Curve Type : Average

Average %RSD Results.	
Calculated Average %RSD =	4.75907
Maximun Average %RSD =	25.00000
* Passed Average %RSD Test.	

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111104P.b/v5001.d
Lab Smp Id: VPH05/6/12/4
Inj Date : 04-NOV-2011 20:57
Operator : JAR
Smp Info : VPH05/6/12/4
Misc Info :
Comment :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Meth Date : 07-Nov-2011 10:04 jar
Cal Date : 04-NOV-2011 20:57
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Processing Host: org.gcal.com
Inst ID: gcv5b.i
Quant Type: ESTD
Cal File: v5001.d
Calibration Sample, Level: 6
Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS						
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	
6 o-Xylene	15.776	15.776	0.000	74110	5.00000	7.8	
7 1,2,4-Trimethylbenzene	16.982	16.982	0.000	62160	5.00000	7.0	
M 9 C9-C10				62160	5.00000	7.0	
8 Naphthalene	20.032	20.032	0.000	49258	5.00000	6.2	
\$ 10 2,5-Dibromotoluene	21.783	21.783	0.000	353009	50.0000	68.8	

Date : 04-NOV-2011 20:57

Client ID:

Instrument: gov5b.i

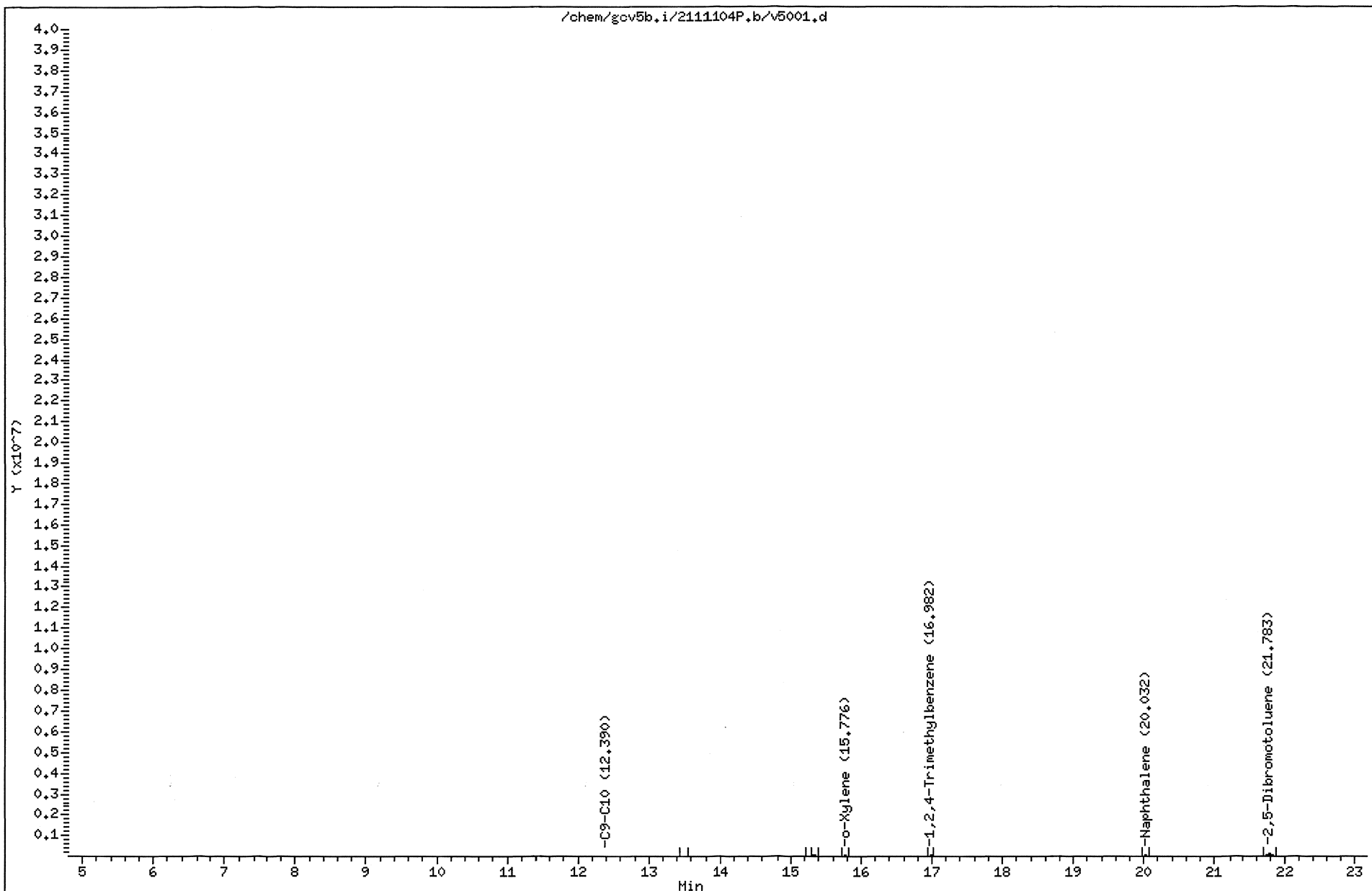
Sample Info: VPH05/6/12/4

Operator: JAR

Volume Injected (UL): 1.0

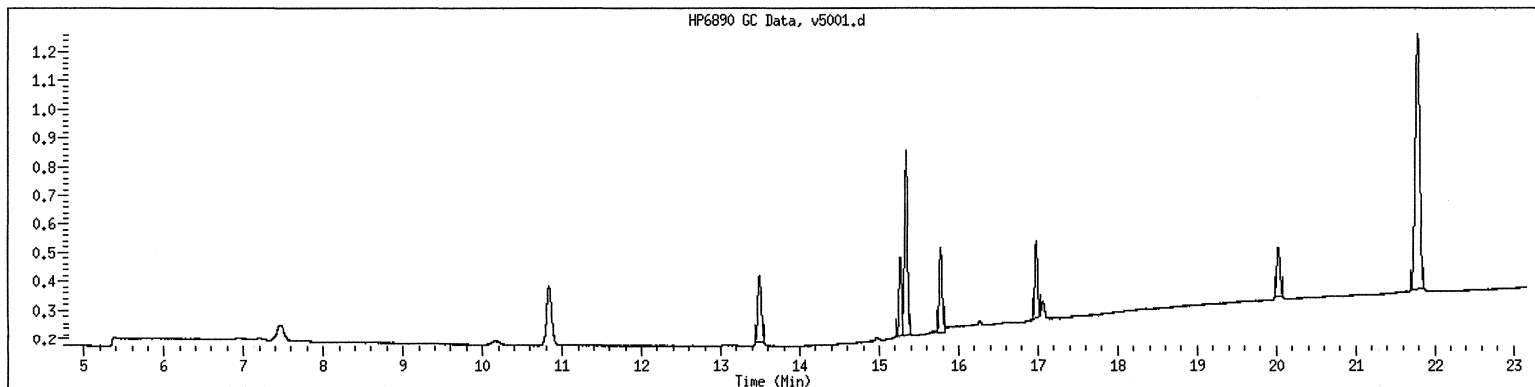
Column diameter: 0,53

Column phase: DB-624-30



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH05/6/12/4 SampleType : CALIB_6
Injection Date: 11/04/2011 20:57 Instrument : gcv5b.i
Operator : JAR
Sample Info : VPH05/6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111104P.b/v5003.d
Lab Smp Id: VPH10/6/12/4
Inj Date : 04-NOV-2011 21:56
Operator : JAR
Smp Info : VPH10/6/12/4
Misc Info :
Comment :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Meth Date : 07-Nov-2011 10:04 jar
Cal Date : 04-NOV-2011 21:56
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Processing Host: org.gcal.com

Inst ID: gcv5b.i
Quant Type: ESTD
Cal File: v5003.d
Calibration Sample, Level: 1
Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
6 o-Xylene	15.776	15.776	0.000	141953	10.0000	13.9
7 1,2,4-Trimethylbenzene	16.982	16.982	0.000	123561	10.0000	13.4
M 9 C9-C10				123561	10.0000	13.4
8 Naphthalene	20.030	20.030	0.000	105949	10.0000	13.0
\$ 10 2,5-Dibromotoluene	21.780	21.780	0.000	356100	50.0000	64.4

Date : 04-NOV-2011 21:56

Client ID:

Instrument: gcv5b.i

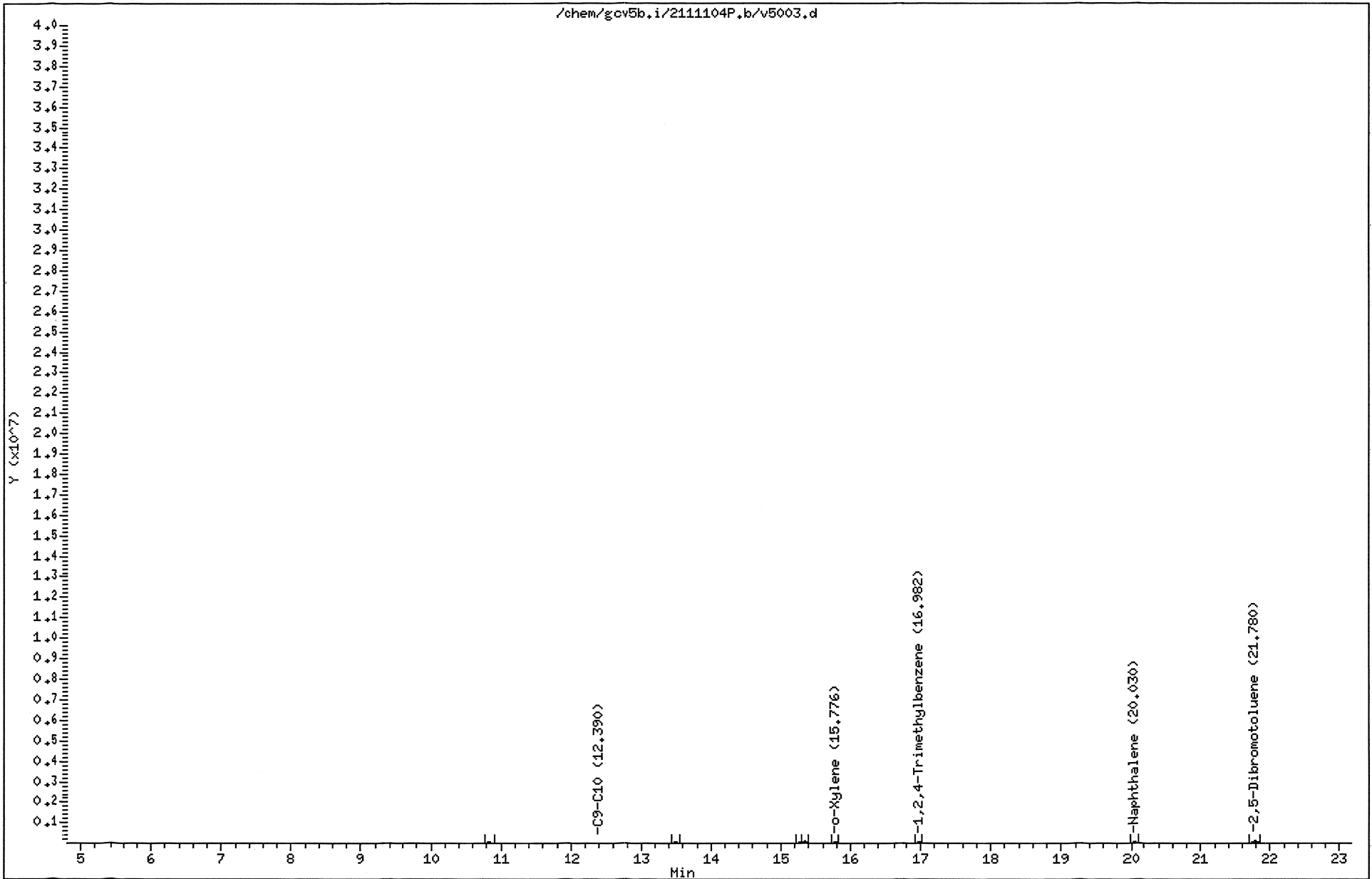
Sample Info: VPH10/6/12/4

Volume Injected (uL): 1.0

Operator: JAR

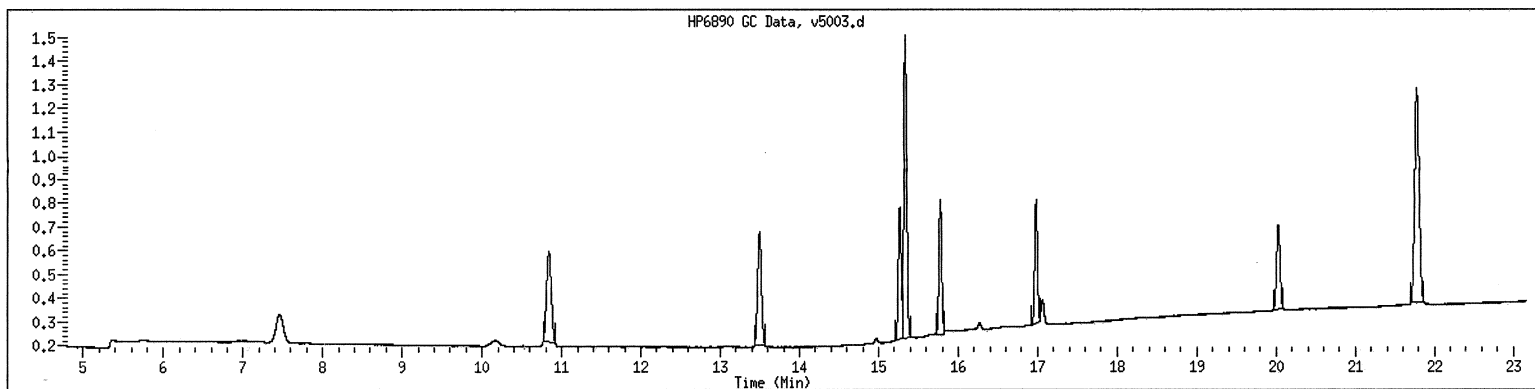
Column phase: DB-624-30

Column diameter: 0.53



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH10/6/12/4 SampleType : CALIB_1
Injection Date: 11/04/2011 21:56 Instrument : gcv5b.i
Operator : JAR
Sample Info : VPH10/6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111104P.b/v5005.d
 Lab Smp Id: VPH20/6/12/4
 Inj Date : 04-NOV-2011 22:55
 Operator : JAR
 Smp Info : VPH20/6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
 Meth Date : 07-Nov-2011 10:04 jar
 Cal Date : 04-NOV-2011 22:55
 Als bottle: 1
 Dil Factor: 50.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5b.i
 Quant Type: ESTD
 Cal File: v5005.d
 Calibration Sample, Level: 2
 Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariab

Name	Value	Description
DF	50.00000	Dilution Factor
Uf	5.00000	Correction factor
Vt	1.00000	Volume of final extract (uL) (1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
6 o-Xylene	15.776	15.776	0.000	279105	20.0000	25.3
7 1,2,4-Trimethylbenzene	16.982	16.982	0.000	252061	20.0000	25.5
M 9 C9-C10				252061	20.0000	25.5
8 Naphthalene	20.028	20.028	0.000	208523	20.0000	24.6
\$ 10 2,5-Dibromotoluene	21.779	21.779	0.000	347190	50.0000	58.7

Date : 04-NOV-2011 22:55

Client ID:

Instrument: gcv5b.i

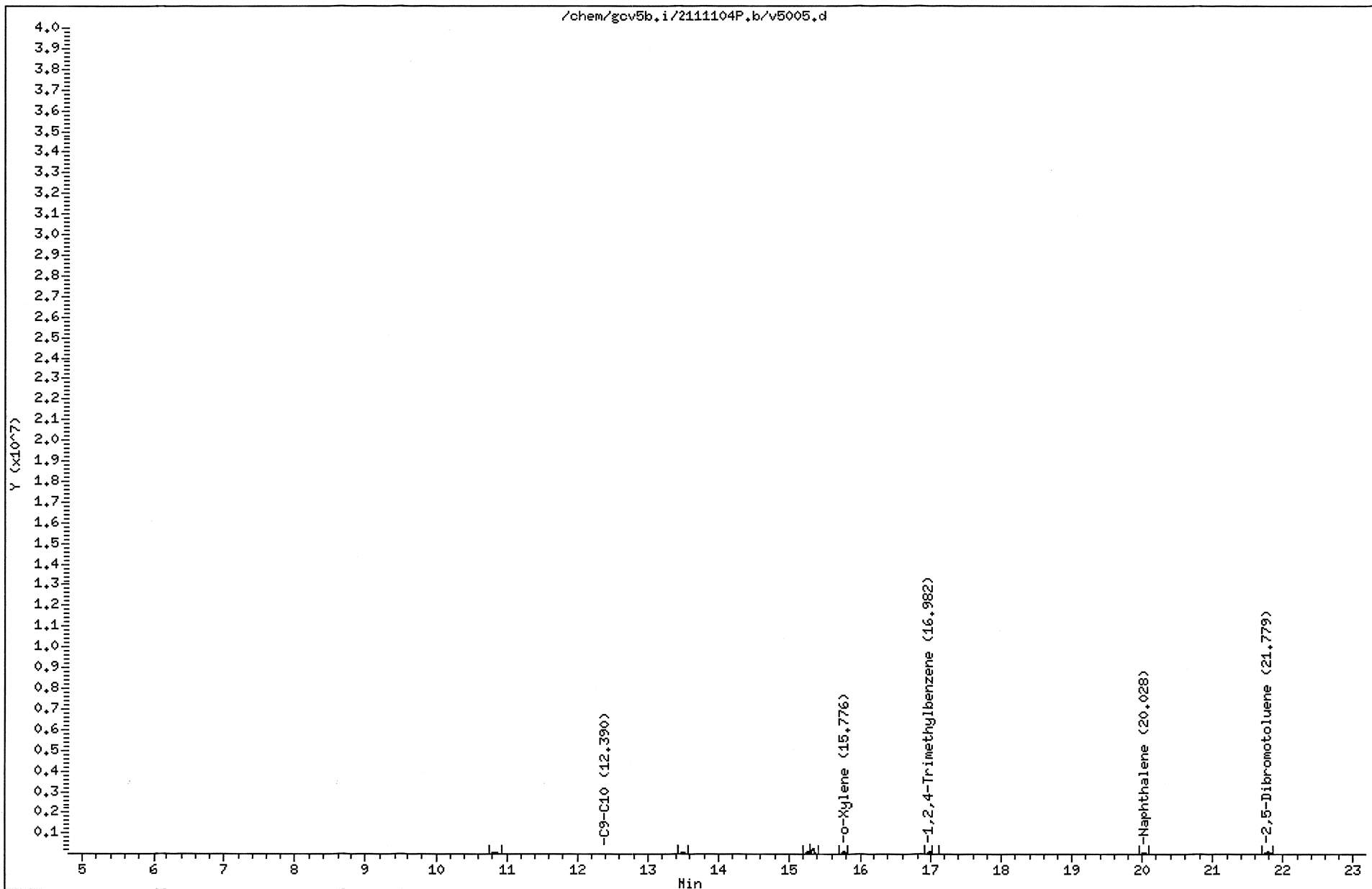
Sample Info: VPH20/6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

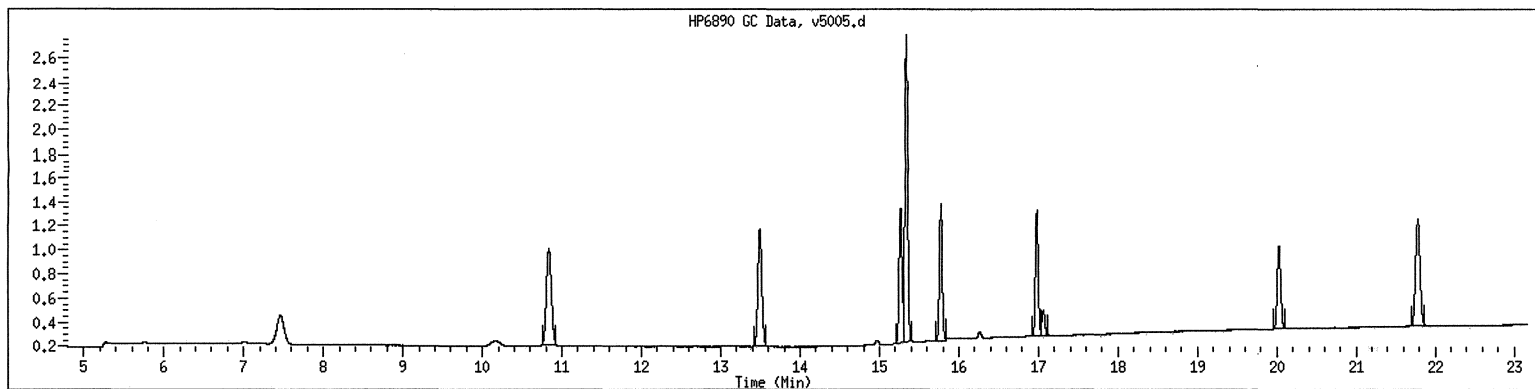
Column diameter: 0.53



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH20/6/12/4 SampleType : CALIB_2
Injection Date: 11/04/2011 22:55 Instrument : gcv5b.i
Operator : JAR
Sample Info : VPH20/6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Dilution : 50.0
Matrix : SOIL
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111104P.b/v5007.d
 Lab Smp Id: VPH50/6/12/4
 Inj Date : 04-NOV-2011 23:54
 Operator : JAR
 Smp Info : VPH50/6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
 Meth Date : 07-Nov-2011 10:04 jar
 Cal Date : 04-NOV-2011 23:54
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5b.i
 Quant Type: ESTD
 Cal File: v5007.d
 Calibration Sample, Level: 3
 Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
6 o-Xylene	15.775	15.775	0.000	688621	50.0000	56.8
7 1,2,4-Trimethylbenzene	16.980	16.980	0.000	621749	50.0000	57.5
M 9 c9-c10				621749	50.0000	57.5
8 Naphthalene	20.026	20.026	0.000	524320	50.0000	57.1
\$ 10 2,5-Dibromotoluene	21.778	21.778	0.000	351593	50.0000	56.0

Data File: /chem/gov5b.i/2111104P.b/v5007.d

Page 1

Date : 04-NOV-2011 23:54

Client ID:

Instrument: gov5b.i

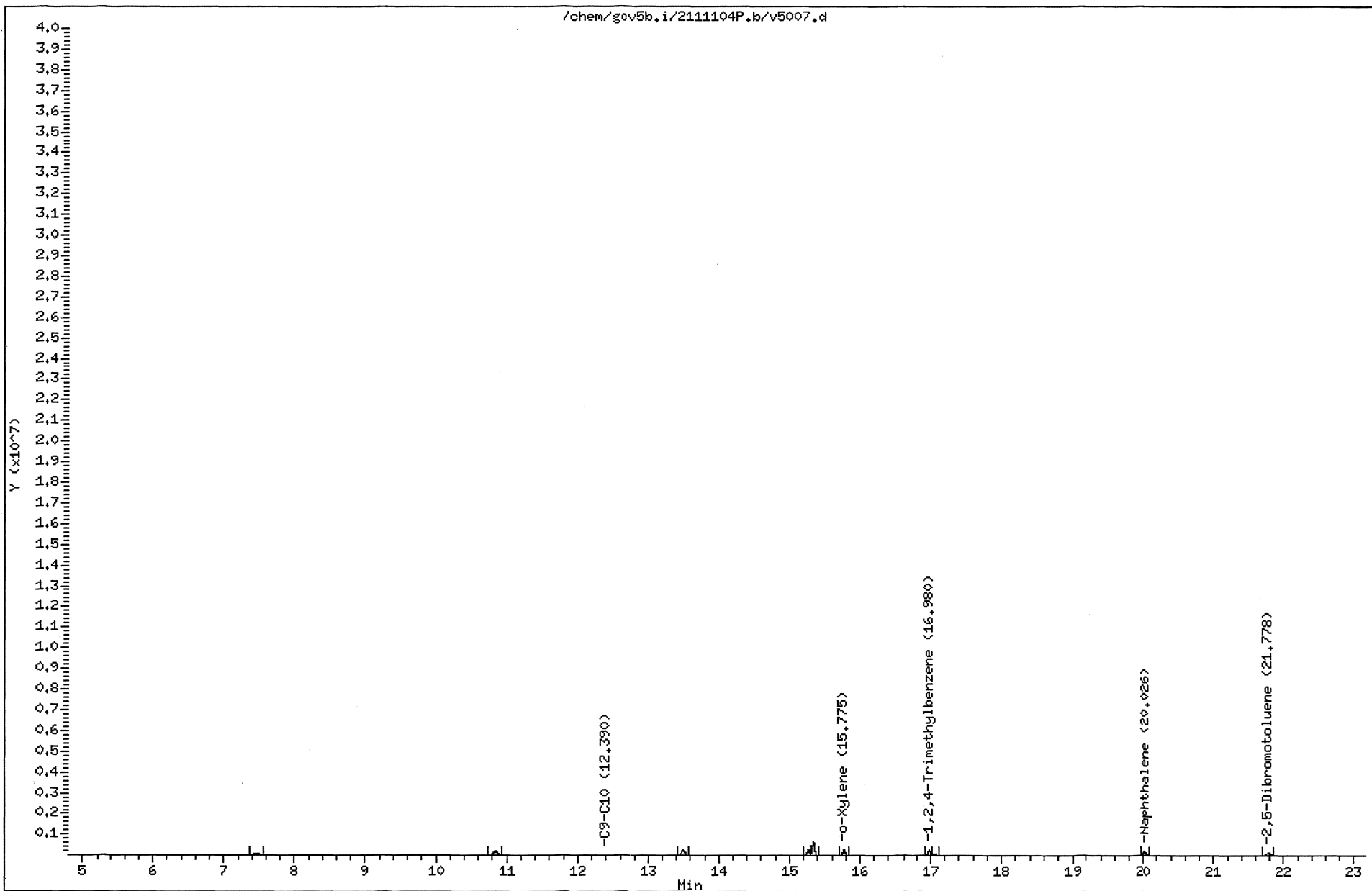
Sample Info: VPH50/6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

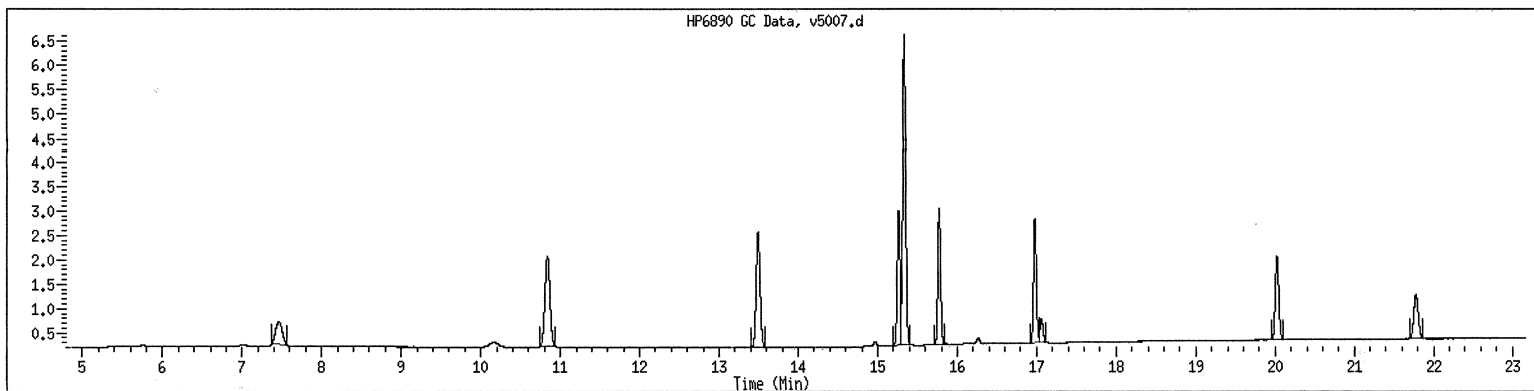
Column diameter: 0,53



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH50/6/12/4 SampleType : CALIB_3
Injection Date: 11/04/2011 23:54 Instrument : gcv5b.i
Operator : JAR
Sample Info : VPH50/6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111104P.b/v5009.d
 Lab Smp Id: VPH80/6/12/4
 Inj Date : 05-NOV-2011 00:53
 Operator : JAR
 Smp Info : VPH80/6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
 Meth Date : 07-Nov-2011 10:04 jar
 Cal Date : 05-NOV-2011 00:53
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5b.i
 Quant Type: ESTD
 Cal File: v5009.d
 Calibration Sample, Level: 4
 Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS						
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	
6 o-Xylene	15.774	15.774	0.000	1007189	80.0000	78.2	
7 1,2,4-Trimethylbenzene	16.980	16.980	0.000	914021	80.0000	79.8	
M 9 C9-C10				914021	80.0000	79.8	
8 Naphthalene	20.026	20.026	0.000	787100	80.0000	81.3	
\$ 10 2,5-Dibromotoluene	21.776	21.776	0.000	345440	50.0000	52.0	

Data File: /chem/gcv5b.i/2111104P.b/v5009.d

Page 1

Date : 05-NOV-2011 00:53

Client ID:

Instrument: gcv5b.i

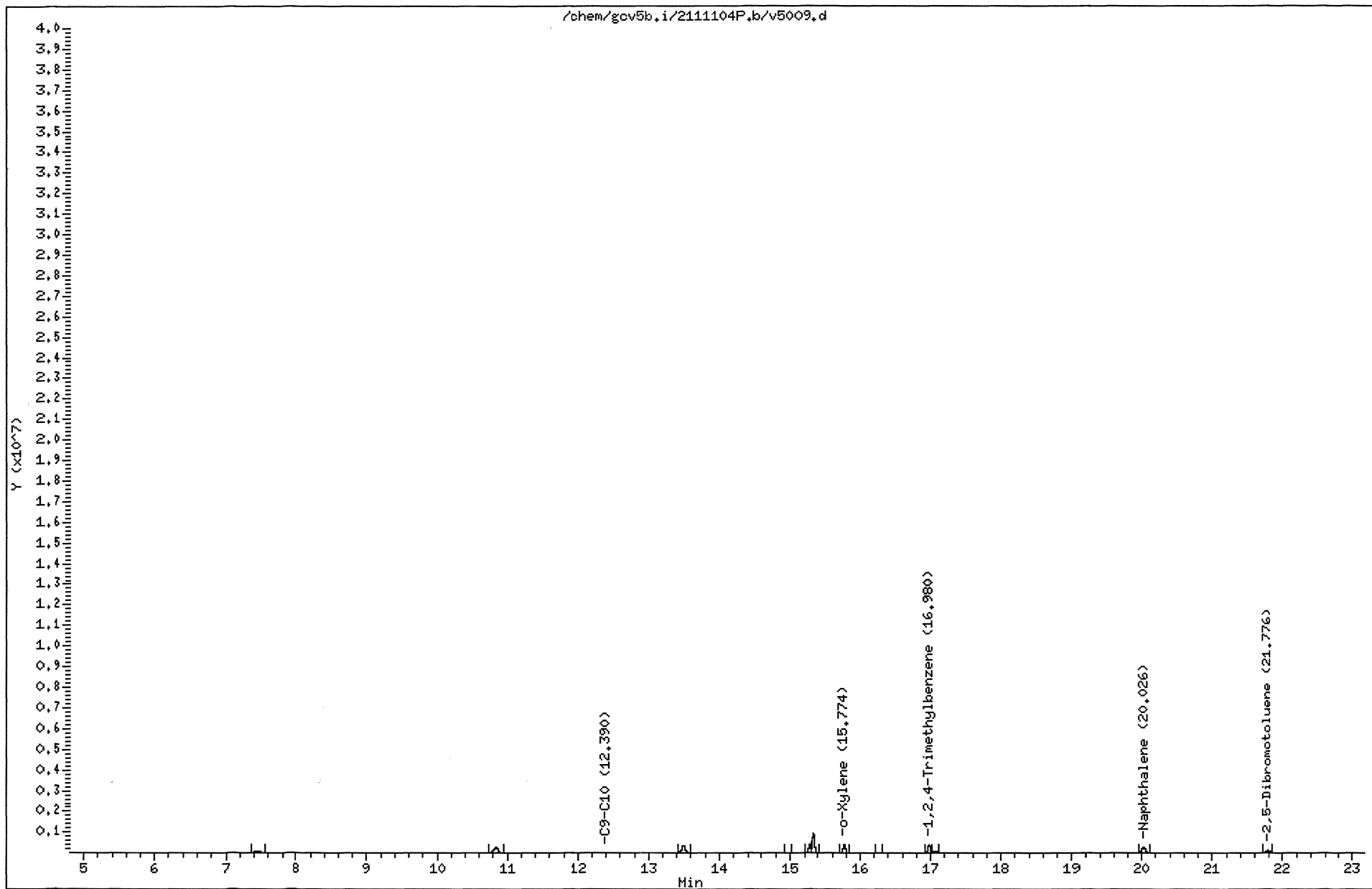
Sample Info: VPH80/6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

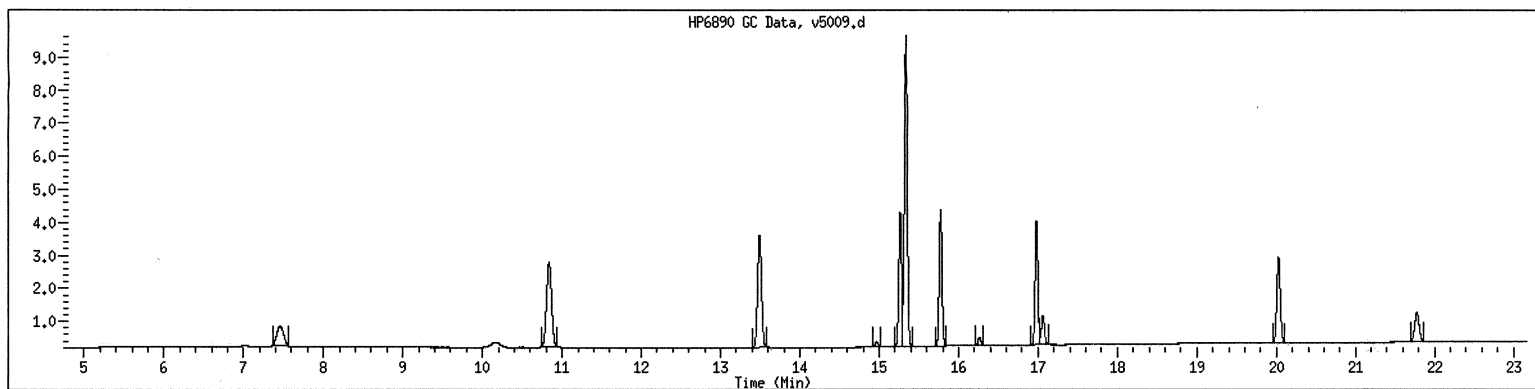
Column diameter: 0.53



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH80/6/12/4 SampleType : CALIB_4
Injection Date: 11/05/2011 00:53 Instrument : gcv5b.i
Operator : JAR
Sample Info : VPH80/6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111104P.b/v5011.d
 Lab Smp Id: VPH100/6/12/4
 Inj Date : 05-NOV-2011 01:52
 Operator : JAR
 Smp Info : VPH100/6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
 Meth Date : 07-Nov-2011 10:04 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5b.i

Quant Type: ESTD

Cal File: v5011.d

Calibration Sample, Level: 5

Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
6 o-Xylene	15.776	15.776	0.000	1208340	100.000	89.0
7 1,2,4-Trimethylbenzene	16.982	16.982	0.000	1092238	100.000	90.8
M 9 C9-C10				1092238	100.000	90.8
8 Naphthalene	20.028	20.028	0.000	991962	100.000	97.4
\$ 10 2,5-Dibromotoluene	21.780	21.780	0.000	344287	50.0000	49.2

Data File: /chem/gcv5b.i/2111104P.b/v5011.d

Page 1

Date : 05-NOV-2011 01:52

Client ID:

Instrument: gcv5b.i

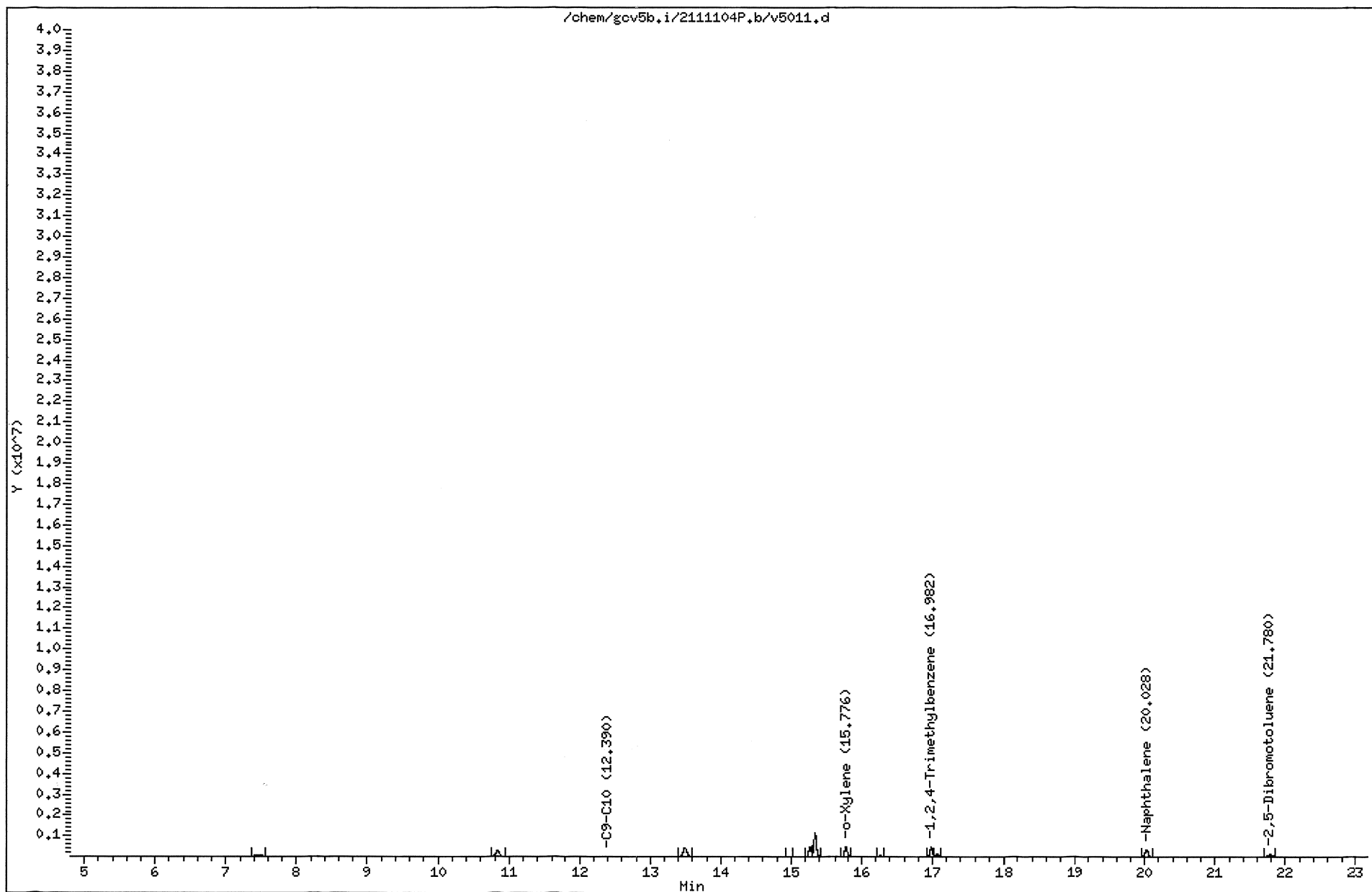
Sample Info: VPH100/6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

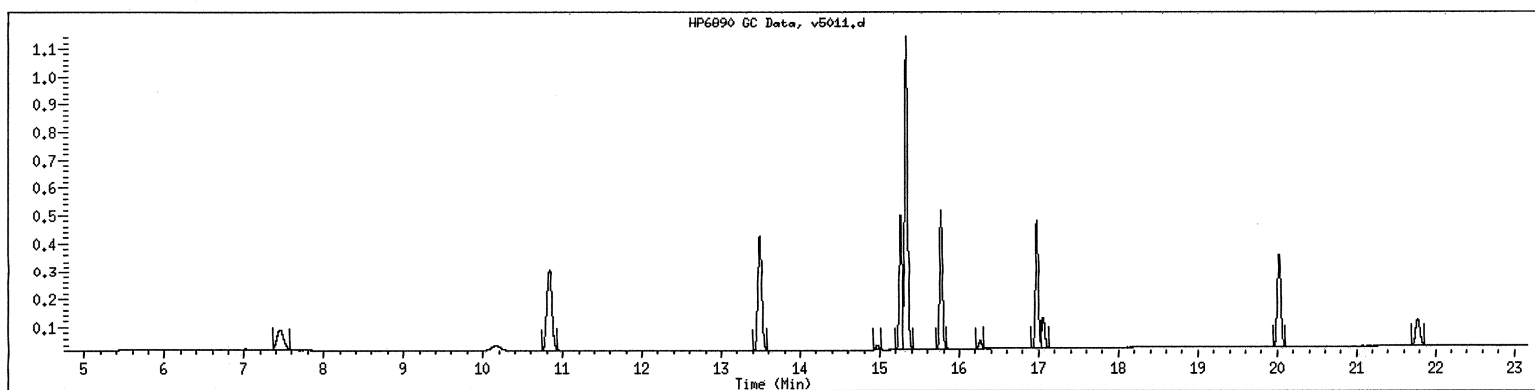
Column diameter: 0.53



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH100/6/12/4 SampleType : CALIB_5
Injection Date: 11/05/2011 01:52 Instrument : gcv5b.i
Operator : JAR
Sample Info : VPH100/6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

RECOVERY REPORT

Client Name: Client SDG: 2111104P
 Sample Matrix: SOLID Fraction: VOA
 Lab Smp Id: ICV6/12/5
 Level: MED Operator: JAR
 Data Type: GC MULTI COMP SampleType: LCS
 SpikeList File: aromatic1.spk Quant Type: ESTD
 Sublist File: aromatic.sub
 Method File: /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
 Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
6 o-Xylene	50.0	51.2	102.42	70-130
7 1,2,4-Trimethylbenzene	50.0	52.8	105.56	70-130
M 9 C9-C10	50.0	52.8	105.56	70-130

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 10 2,5-Dibromotoluene	50.0	51.3	102.55	60-140

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111104P.b/v5013.d
Lab Smp Id: ICV6/12/5
Inj Date : 05-NOV-2011 02:51
Operator : JAR
Smp Info : ICV6/12/5
Misc Info :
Comment :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Meth Date : 07-Nov-2011 10:04 jar
Cal Date : 05-NOV-2011 01:52
Als bottle: 1
Dil Factor: 50.00000
Integrator: Falcon
Target Version: 3.50
Processing Host: org.gcal.com
Inst ID: gcv5b.i
Quant Type: ESTD
Cal File: v5011.d
QC Sample: LCS
Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariab

Name	Value	Description
DF	50.00000	Dilution Factor
Uf	5.00000	Correction factor
Vt	1.00000	Volume of final extract (uL) (1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	CONCENTRATIONS						
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/Kg)	
6 o-Xylene	15.775	15.776	-0.001	694928	51.2117	2560	
7 1,2,4-Trimethylbenzene	16.980	16.982	-0.002	634872	52.7787	2640	
M 9 C9-C10				634872	52.7787	2640	
8 Naphthalene	20.027	20.028	-0.001	569432	55.9022	2800	
\$ 10 2,5-Dibromotoluene	21.777	21.780	-0.003	358526	51.2761	2560	

Data File: /chem/gov5b.i/2111104P,b/v5013.d

Page 1

Date : 05-NOV-2011 02:51

Client ID:

Instrument: gov5b.i

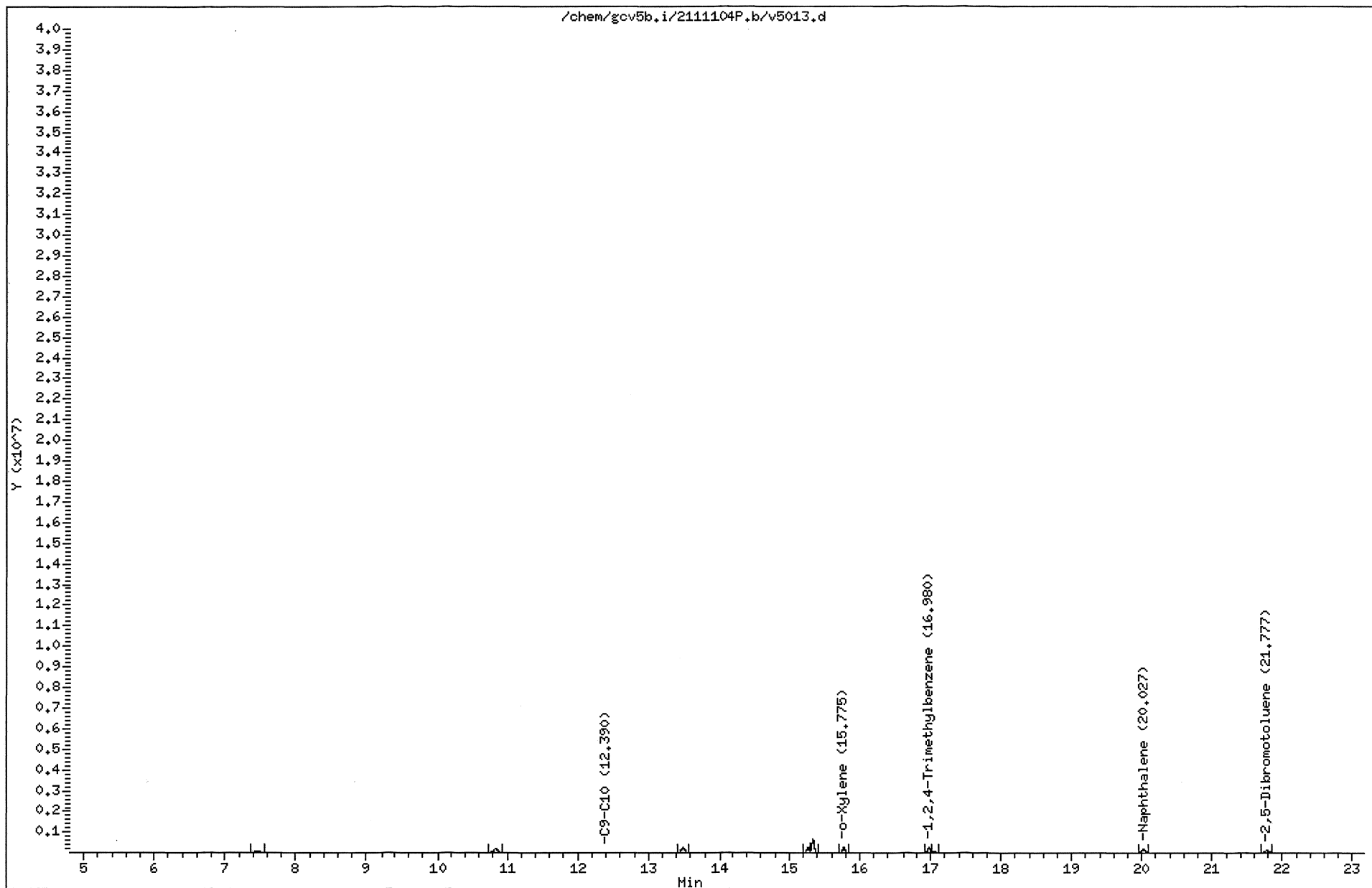
Sample Info: ICV6/12/5

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

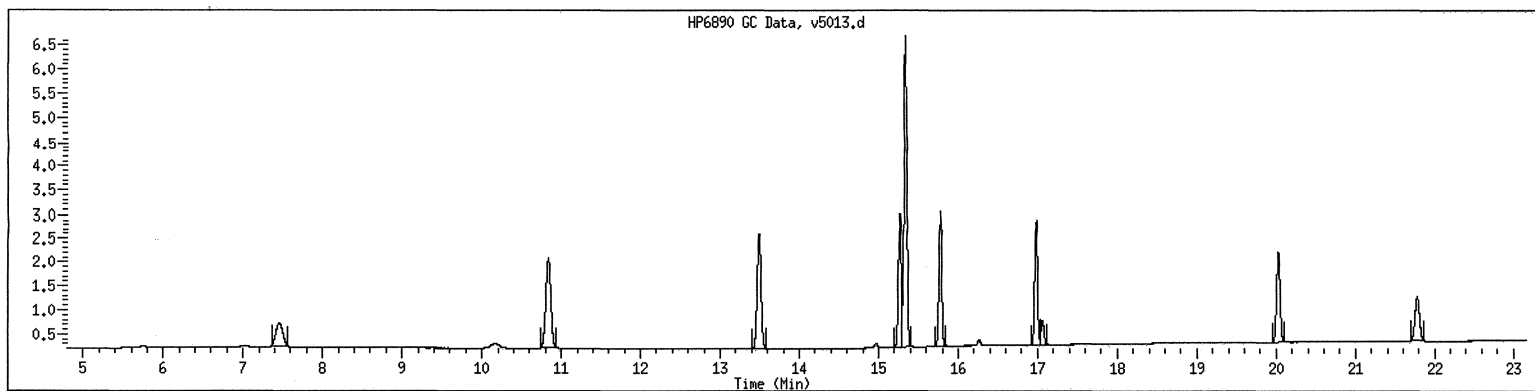
Column diameter: 0.53



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : ICV6/12/5 SampleType : LCS
Injection Date: 11/05/2011 02:51 Instrument : gcv5b.i
Operator : JAR
Sample Info : ICV6/12/5
Misc Info :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Dilution : 50.0
Matrix : SOIL
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcv5b.i Injection Date: 07-NOV-2011 11:22
Lab File ID: v5001.d Init. Cal. Date(s): 05-OCT-2011 05-NOV-2011
Analysis Type: SOIL Init. Cal. Times: 17:26 01:52
Lab Sample ID: VPH6/12/4 Quant Type: ESTD
Method: /var/chem/gcv5b.i/2111107.b/PIDMVP.H.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT	%D / %DRIFT	
6 o-Xylene	13570	14032	0.010	-3.40445	25.00000	Averaged	
7 1,2,4-Trimethylbenzene	12029	12938	0.010	-7.55906	25.00000	Averaged	
M 9 C9-C10	12029	12938	0.010	-7.55906	25.00000	Averaged	
8 Naphthalene	10186	10852	0.010	-6.53786	25.00000	Averaged	
\$ 10 2,5-Dibromotoluene	6992	7243	0.010	-3.59117	30.00000	Averaged	

Average %D / Drift Results.
=====

Calculated Average %D/Drift =	5.73032
Maximun Average %D/Drift =	25.00000

* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5001.d
 Lab Smp Id: VPH6/12/4
 Inj Date : 07-NOV-2011 11:22
 Operator : JAR
 Smp Info : VPH6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
 Meth Date : 08-Nov-2011 13:26 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 50.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5b.i

Quant Type: ESTD

Cal File: v5011.d

Continuing Calibration Sample

Compound Sublist: aromatic.sub

Concentration Formula: $Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariab$

Name	Value	Description
DF	50.00000	Dilution Factor
Uf	5.00000	Correction factor
Vt	1.00000	Volume of final extract (uL) (1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	5.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
6 o-Xylene	15.775	15.775	0.000	701584	50.0000	51.7
7 1,2,4-Trimethylbenzene	16.981	16.981	0.000	646912	50.0000	53.8
M 9 C9-C10				646912	50.0000	53.8
8 Naphthalene	20.027	20.027	0.000	542610	50.0000	53.3
\$ 10 2,5-Dibromotoluene	21.778	21.778	0.000	362158	50.0000	51.8

Data File: /chem/gcv5b.i/2111107.b/v5001.d

Page 1

Date : 07-NOV-2011 11:22

Client ID:

Instrument: gcv5b.i

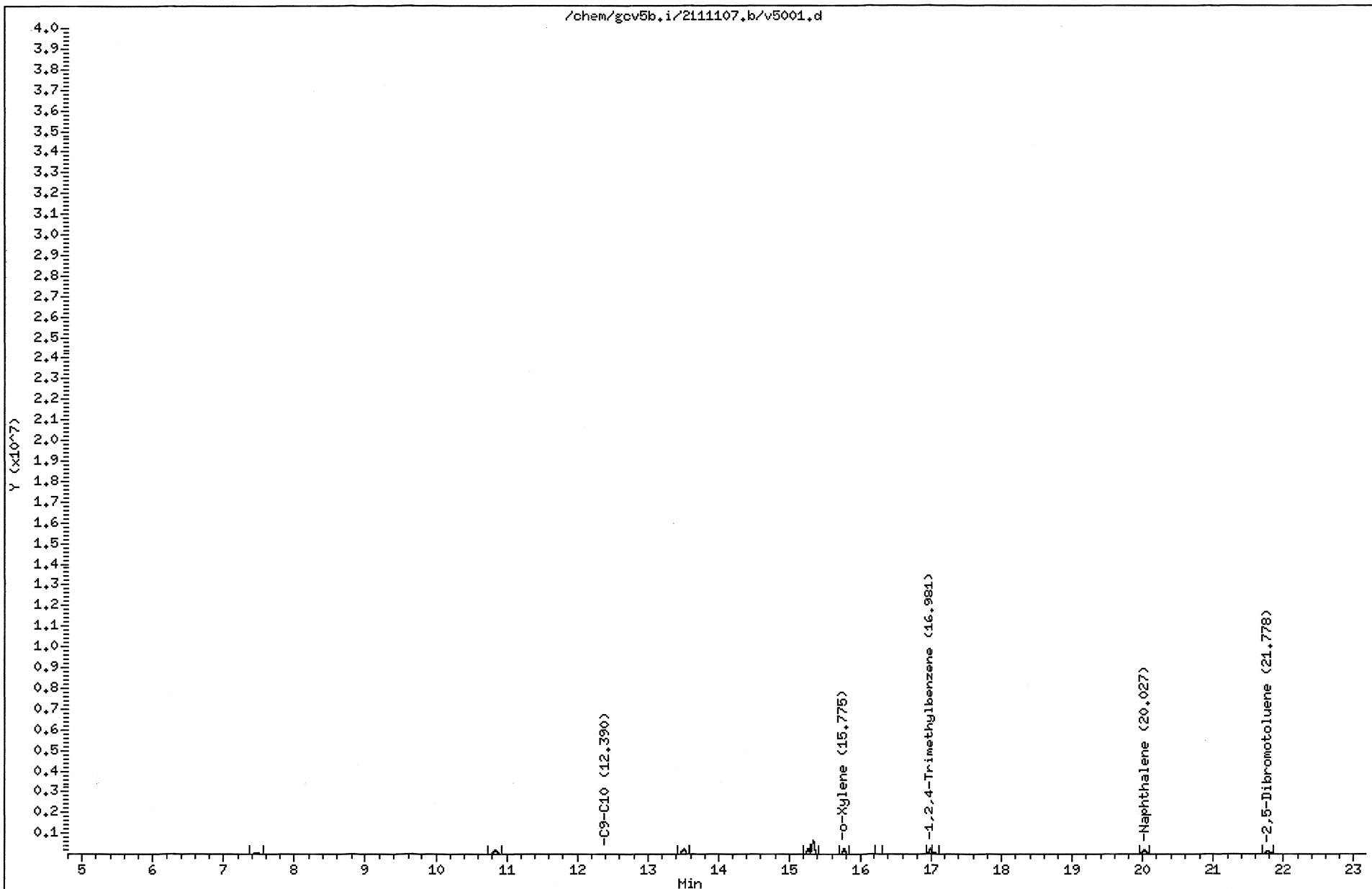
Sample Info: VPH6/12/4

Operator: JAR

Volume Injected (uL): 1.0

Column diameter: 0.53

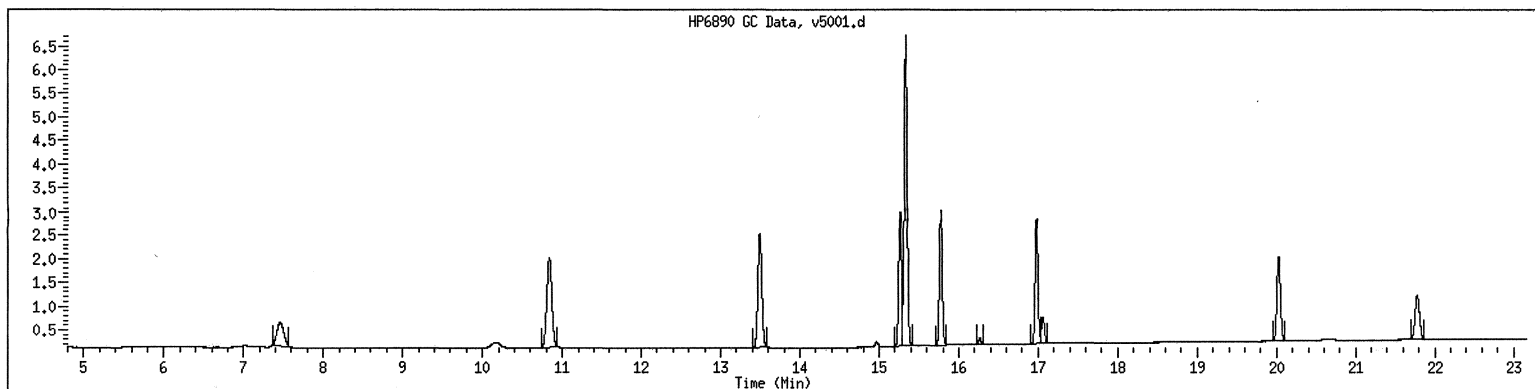
Column phase: IB-624-30



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH6/12/4 SampleType : CCALIB_3
Injection Date: 11/07/2011 11:22 Instrument : gcv5b.i
Operator : JAR
Sample Info : VPH6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 50.0
Matrix : SOIL
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcv5b.i Injection Date: 07-NOV-2011 16:16
Lab File ID: v5011.d Init. Cal. Date(s): 05-OCT-2011 05-NOV-2011
Analysis Type: SOIL Init. Cal. Times: 17:26 01:52
Lab Sample ID: VPH6/12/4 Quant Type: ESTD
Method: /var/chem/gcv5b.i/2111107.b/PIDMVPH.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	MIN %D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
6 o-Xylene	13570	13412	0.010	1.16027	25.00000	Averaged
7 1,2,4-Trimethylbenzene	12029	13121	0.010	-9.07507	25.00000	Averaged
M 9 C9-C10	12029	13121	0.010	-9.07507	25.00000	Averaged
8 Naphthalene	10186	10461	0.010	-2.69817	25.00000	Averaged
\$ 10 2,5-Dibromotoluene	6992	7139	0.010	-2.10262	30.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 4.82224
Maximun Average %D/Drift = 25.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5011.d
 Lab Smp Id: VPH6/12/4
 Inj Date : 07-NOV-2011 16:16
 Operator : JAR
 Smp Info : VPH6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
 Meth Date : 08-Nov-2011 13:32 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 50.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5b.i
 Quant Type: ESTD
 Cal File: v5011.d
 Continuing Calibration Sample
 Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariab

Name	Value	Description
DF	50.00000	Dilution Factor
Uf	5.00000	Correction factor
Vt	1.00000	Volume of final extract (uL) (1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	5.00000	Weigth of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS						
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	
6 o-Xylene	15.780	15.780	0.000	670613	50.0000	49.4	
7 1,2,4-Trimethylbenzene	16.986	16.986	0.000	656030	50.0000	54.5	
M 9 C9-C10				656030	50.0000	54.5	
8 Naphthalene	20.036	20.036	0.000	523054	50.0000	51.3	
\$ 10 2,5-Dibromotoluene	21.788	21.788	0.000	356954	50.0000	51.0	

Data File: /chem/gcv5b.i/2111107,b/v5011.d

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Date : 07-NOV-2011 16:16

Client ID:

Instrument: gcv5b.i

Sample Info: VPH6/12/4

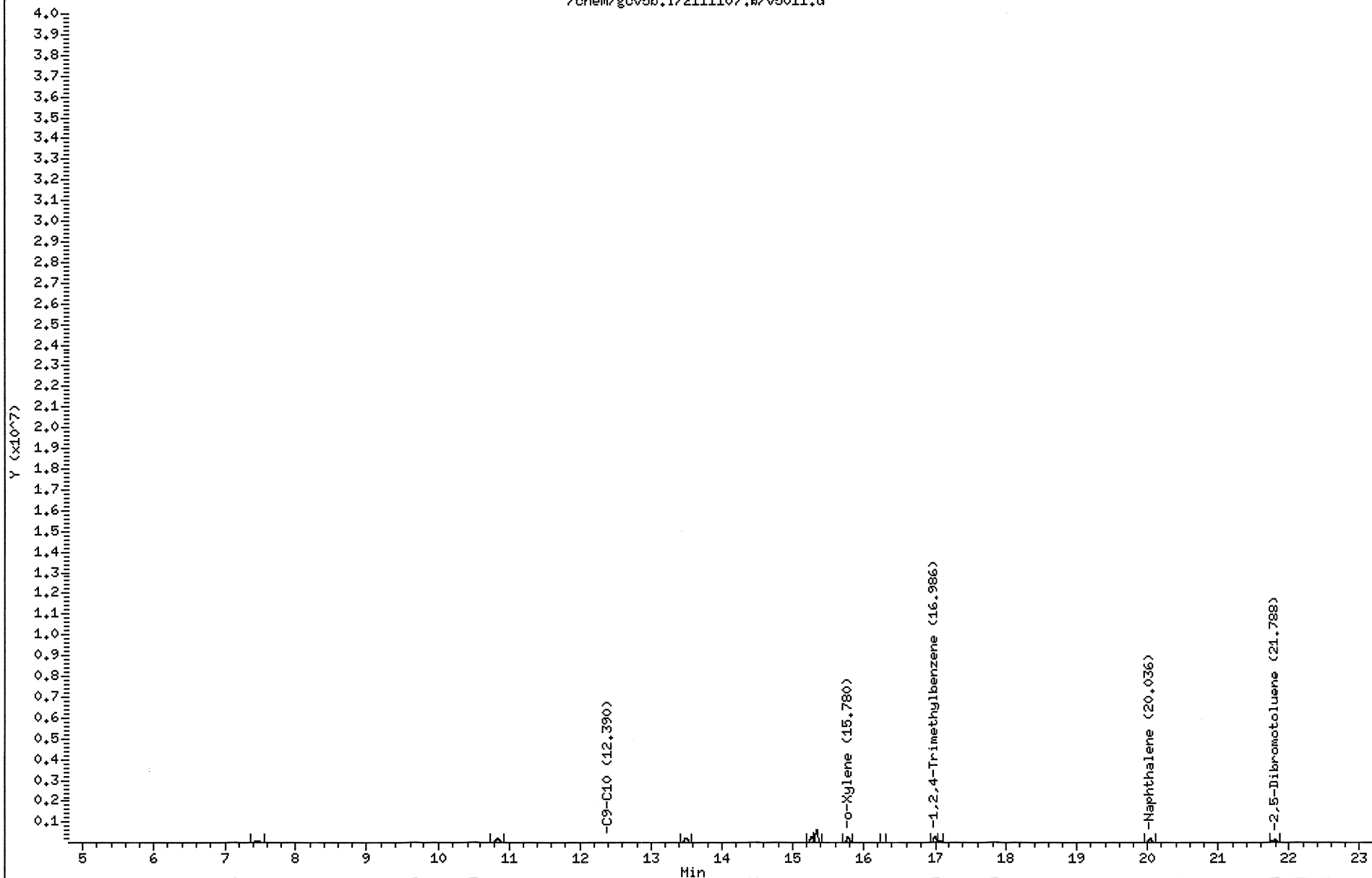
Operator: JAR

Volume Injected (uL): 1.0

Column diameter: 0.53

Column phase: DB-624-30

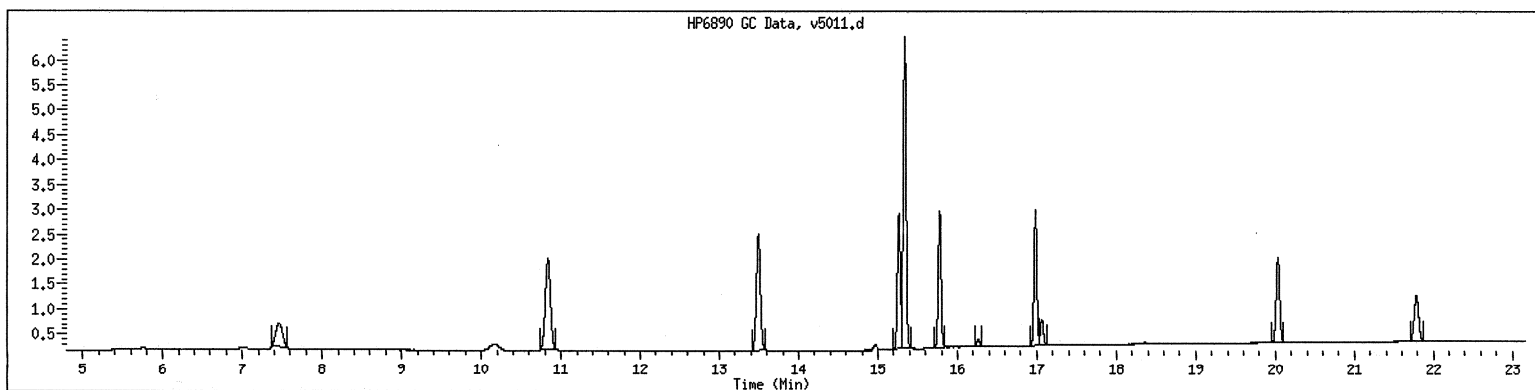
/chem/gcv5b.i/2111107,b/v5011.d



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH6/12/4 SampleType : CCALIB_3
Injection Date: 11/07/2011 16:16 Instrument : gcv5b.i
Operator : JAR
Sample Info : VPH6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 50.0
Matrix : SOIL
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcv5b.i Injection Date: 07-NOV-2011 23:22
 Lab File ID: v5021.d Init. Cal. Date(s): 05-OCT-2011 05-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 17:26 01:52
 Lab Sample ID: VPH6/12/4 Quant Type: ESTD
 Method: /var/chem/gcv5b.i/2111107.b/PIDMVPH.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
6 o-Xylene	13570	13889	0.010	-2.35270	25.00000		Averaged
7 1,2,4-Trimethylbenzene	12029	12645	0.010	-5.11962	25.00000		Averaged
M 9 C9-C10	12029	12645	0.010	-5.11962	25.00000		Averaged
8 Naphthalene	10186	11058	0.010	-8.56157	25.00000		Averaged
\$ 10 2,5-Dibromotoluene	6992	7984	0.010	-14.18718	30.00000		Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 7.06814
 Maximun Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5021.d
Lab Smp Id: VPH6/12/4
Inj Date : 07-NOV-2011 23:22
Operator : JAR
Smp Info : VPH6/12/4
Misc Info :
Comment :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Meth Date : 08-Nov-2011 13:32 jar
Cal Date : 05-NOV-2011 01:52
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Processing Host: org.gcal.com
Inst ID: gcv5b.i
Quant Type: ESTD
Cal File: v5011.d
Continuing Calibration Sample
Compound Sublist: aromatic.sub

Concentration Formula: $Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
6 o-Xylene	15.777	15.777	0.000	694448	50.0000	51.2
7 1,2,4-Trimethylbenzene	16.983	16.983	0.000	632240	50.0000	52.6
M 9 C9-C10				632240	50.0000	52.6
8 Naphthalene	20.029	20.029	0.000	552917	50.0000	54.3
\$ 10 2,5-Dibromotoluene	21.781	21.781	0.000	399202	50.0000	57.1

Data File: /chem/gcv5b.i/2111107,b/v5021,d

Page 1

Date : 07-NOV-2011 23:22

Client ID:

Instrument: gcv5b.i

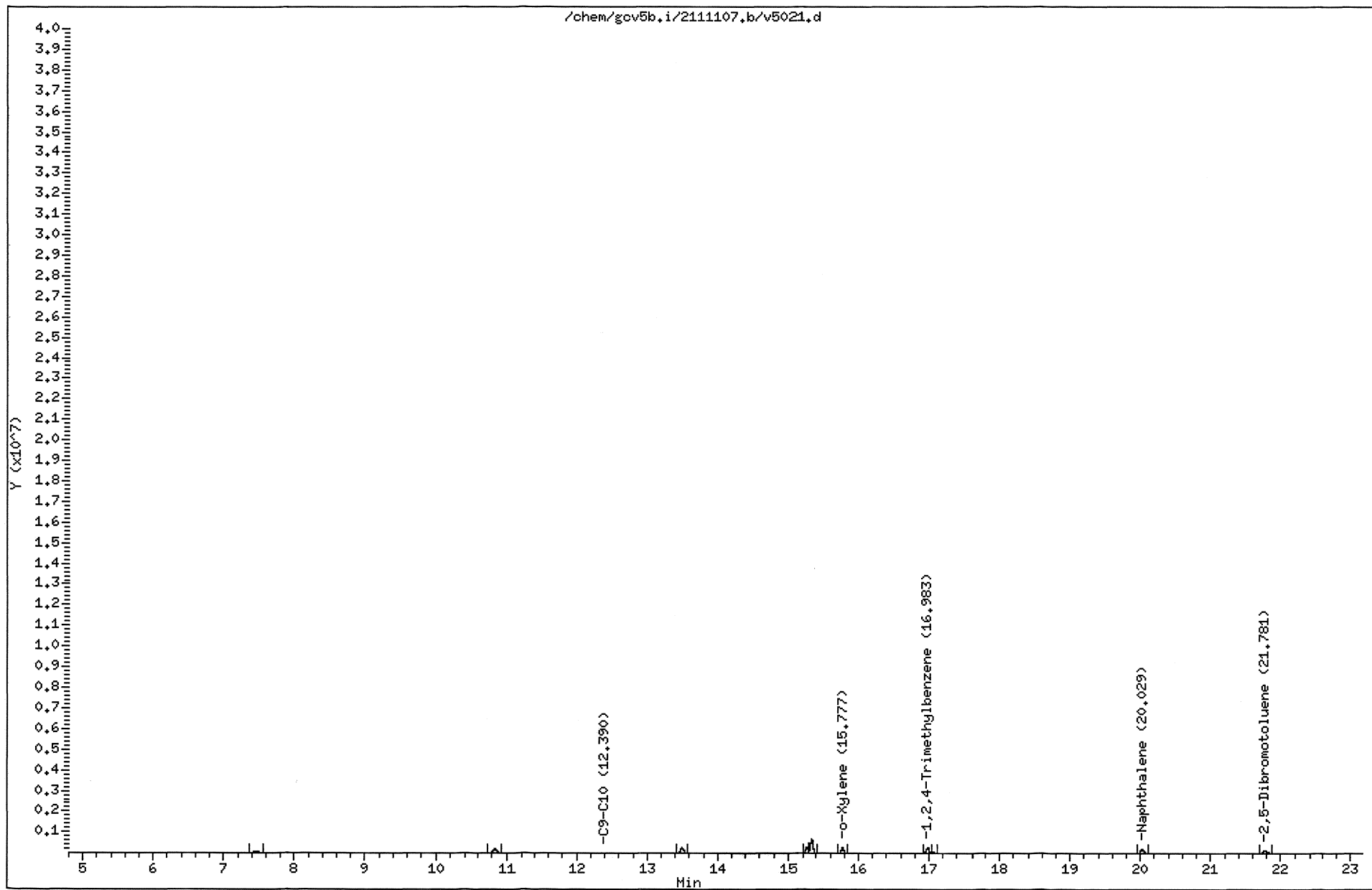
Sample Info: VPH6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

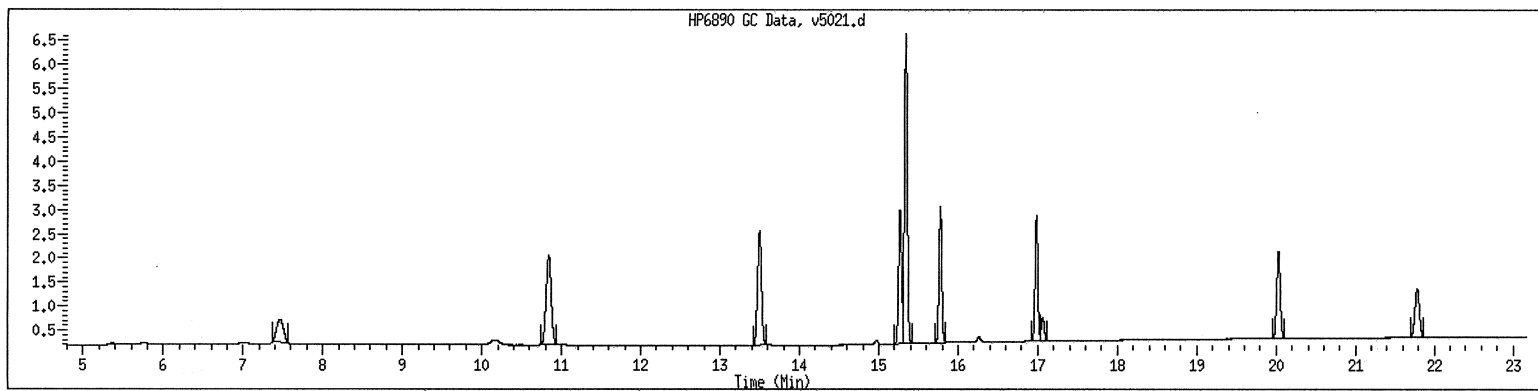
Column diameter: 0.53



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH6/12/4 SampleType : CCALIB_3
Injection Date: 11/07/2011 23:22 Instrument : gcv5b.i
Operator : JAR
Sample Info : VPH6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-NOV-2011 20:57
 End Cal Date : 05-NOV-2011 01:52
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
 Cal Date : 17-Nov-2011 15:51 bmr
 Curve Type : Average

Calibration File Names:

Level 1: /var/chem/gcv5a.i/2111104p.b/v5003.d
 Level 2: /var/chem/gcv5a.i/2111104p.b/v5005.d
 Level 3: /var/chem/gcv5a.i/2111104p.b/v5007.d
 Level 4: /var/chem/gcv5a.i/2111104p.b/v5009.d
 Level 5: /var/chem/gcv5a.i/2111104p.b/v5011.d
 Level 6: /var/chem/gcv5a.i/2111104p.b/v5001.d

Compound	10.000 Level 1	20.000 Level 2	50.000 Level 3	80.000 Level 4	100.000 Level 5	5.000 Level 6	RRF	% RSD
1 n-Pentane	10671	10211	8851	7571	6259	10437	9000	19.814
M 2 C5-C8	10727	11023	9557	8858	7420	11346	9822	15.343
3 2-Methyl Pentane	10850	12110	10178	9578	7894	12016	10438	15.288
4 MTBE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 5 C9-C12	5516	5527	5414	6329	6009	3831	5437	15.859
6 Isooctane	10661	10749	9640	9426	8105	11583	10027	12.254
7 Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
8 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 n-Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
10 Ethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 m,p-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
12 o-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 n-Decane	5176	5085	5107	6409	6110	5443	5555	10.232
14 1,2,4-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 n-Butylcyclohexane	5856	5968	5721	6249	5908	6049	5958	3.021
16 Naphthalene	9352	9011	8945	8433	8525	+++++	8853	4.247
\$ 17 2,5-Dibromotoluene	3190	3009	3100	2787	2825	3028	2990	5.238

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-NOV-2011 20:57
End Cal Date : 05-NOV-2011 01:52
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : Falcon
Method file : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Cal Date : 17-Nov-2011 15:51 bmr
Curve Type : Average

Average %RSD Results.	|

Calculated Average %RSD = 11.25516	|
Maximun Average %RSD = 25.00000	|
* Passed Average %RSD Test.	|

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111104p.b/v5001.d
 Lab Smp Id: VPH05/6/12/4
 Inj Date : 04-NOV-2011 20:57
 Operator : JAR
 Smp Info : VPH05/6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
 Meth Date : 07-Nov-2011 10:29 jar
 Cal Date : 04-NOV-2011 20:57
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5a.i
 Quant Type: ESTD
 Cal File: v5001.d
 Calibration Sample, Level: 6
 Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
M 2 C5-C8				170184	15.0000	16.3
1 n-Pentane	5.268	5.268	0.000	52185	5.00000	5.4 (M1)
3 2-Methyl Pentane	6.485	6.485	0.000	60082	5.00000	5.4 (M1)
6 Isooctane	9.561	9.561	0.000	57917	5.00000	5.4 (M1)
13 n-Decane	15.962	15.962	0.000	27213	5.00000	5.2 (M1)
15 n-Butylcyclohexane	16.745	16.745	0.000	30246	5.00000	5.1 (M1)
16 Naphthalene	19.622	19.622	0.000	47160	5.00000	5.3 (M1)
M 5 C9-C12				57459	15.0000	10.3
\$ 17 2,5-Dibromotoluene	21.297	21.297	0.000	151381	50.0000	49.4 (M1)

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Data File: /chem/gcv5a.i/2111104p.b/v5001.d

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Date : 04-NOV-2011 20:57

Client ID:

Instrument: gcv5a.i

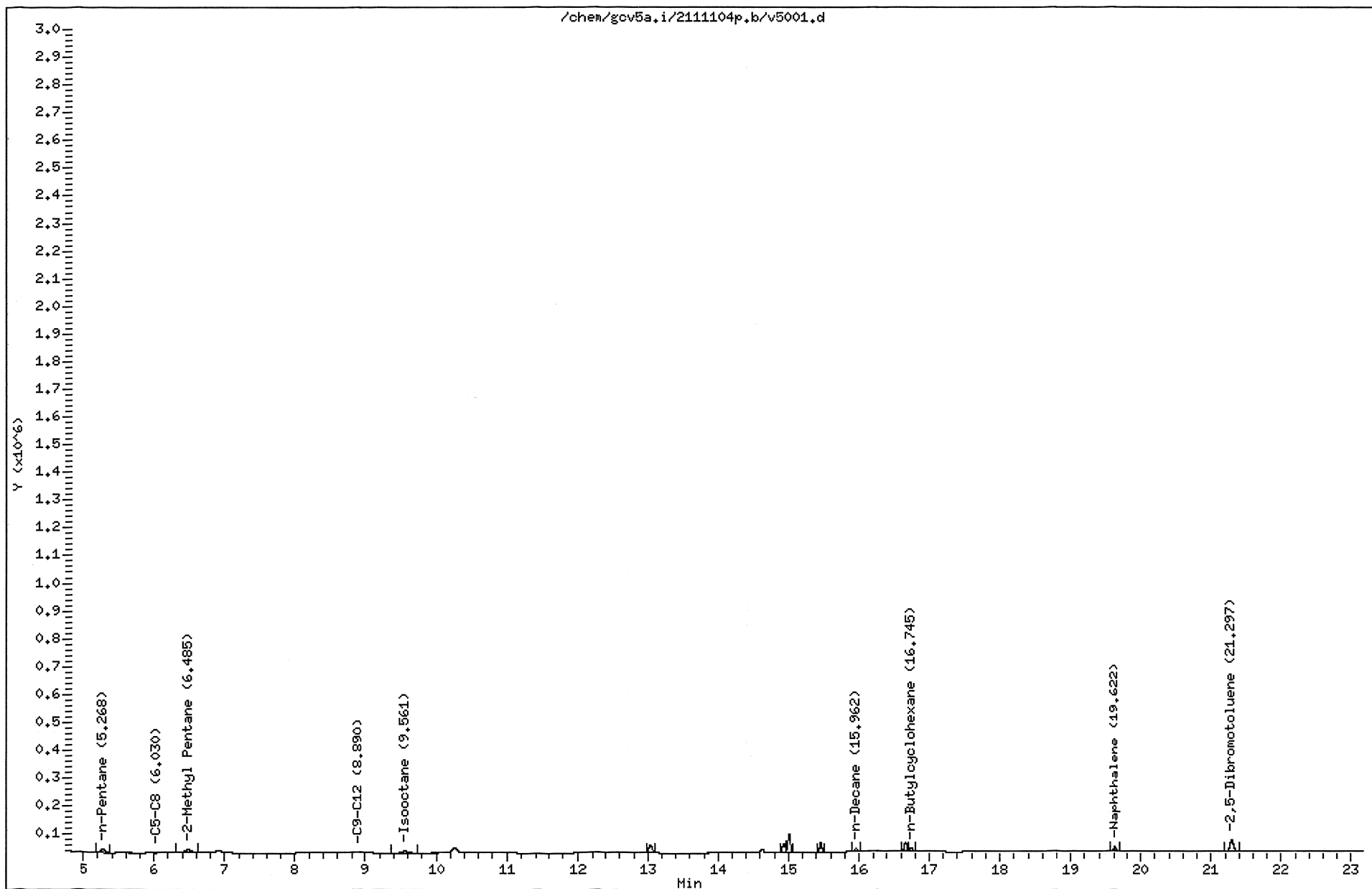
Sample Info: VPH05/6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

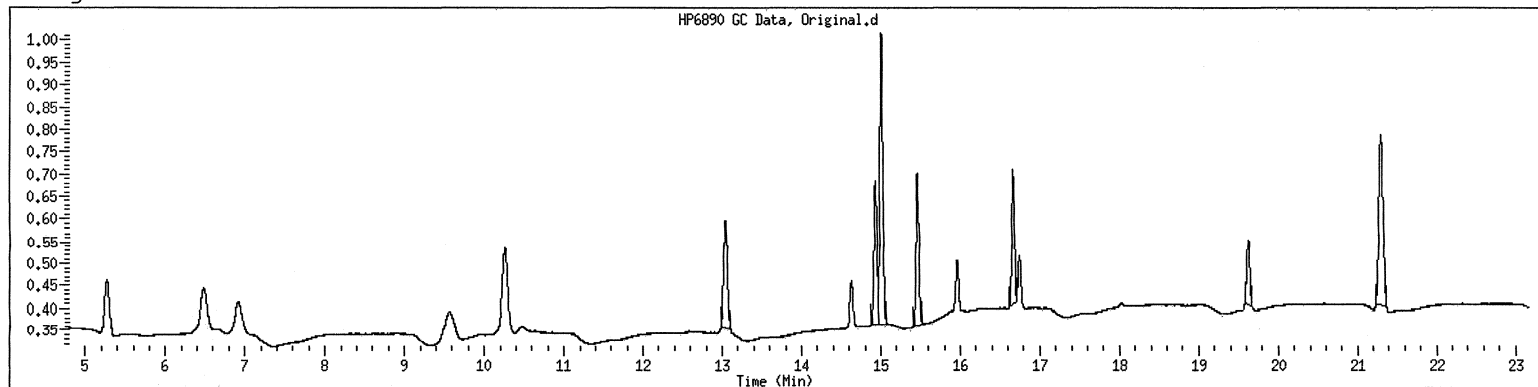


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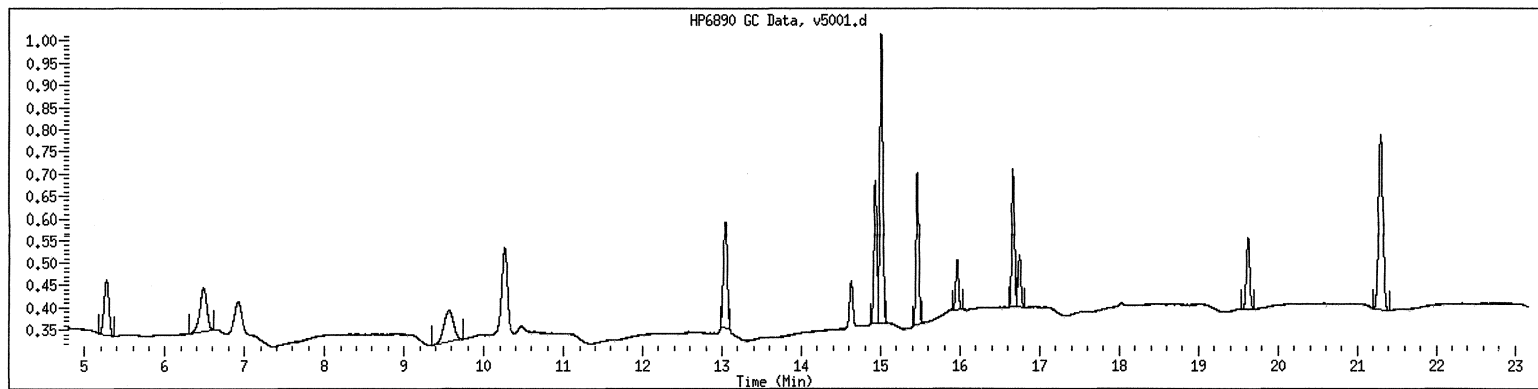
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH05/6/12/4 SampleType : CALIB_6
Injection Date: 11/04/2011 20:57 Instrument : gcv5a.i
Operator : JAR
Sample Info : VPH05/6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111104p.b/v5003.d
 Lab Smp Id: VPH10/6/12/4
 Inj Date : 04-NOV-2011 21:56
 Operator : JAR
 Smp Info : VPH10/6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
 Meth Date : 07-Nov-2011 10:29 jar
 Cal Date : 04-NOV-2011 21:56
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5a.i
 Quant Type: ESTD
 Cal File: v5003.d
 Calibration Sample, Level: 1
 Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
M 2 C5-C8				321816	30.0000	30.6
1 n-Pentane	5.269	5.269	0.000	106713	10.0000	10.7 (M1)
3 2-Methyl Pentane	6.483	6.483	0.000	108495	10.0000	9.8 (M1)
6 Isooctane	9.565	9.565	0.000	106608	10.0000	10.0 (M1)
13 n-Decane	15.960	15.960	0.000	51759	10.0000	9.9 (M1)
15 n-Butylcyclohexane	16.743	16.743	0.000	58555	10.0000	10 (M1)
16 Naphthalene	19.618	19.618	0.000	93516	10.0000	10.2 (M1)
M 5 C9-C12				110314	20.0000	19.8
\$ 17 2,5-Dibromotoluene	21.292	21.292	0.000	159522	50.0000	51.4 (M1)

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Date : 04-NOV-2011 21:56

Client ID:

Instrument: gcv5a.i

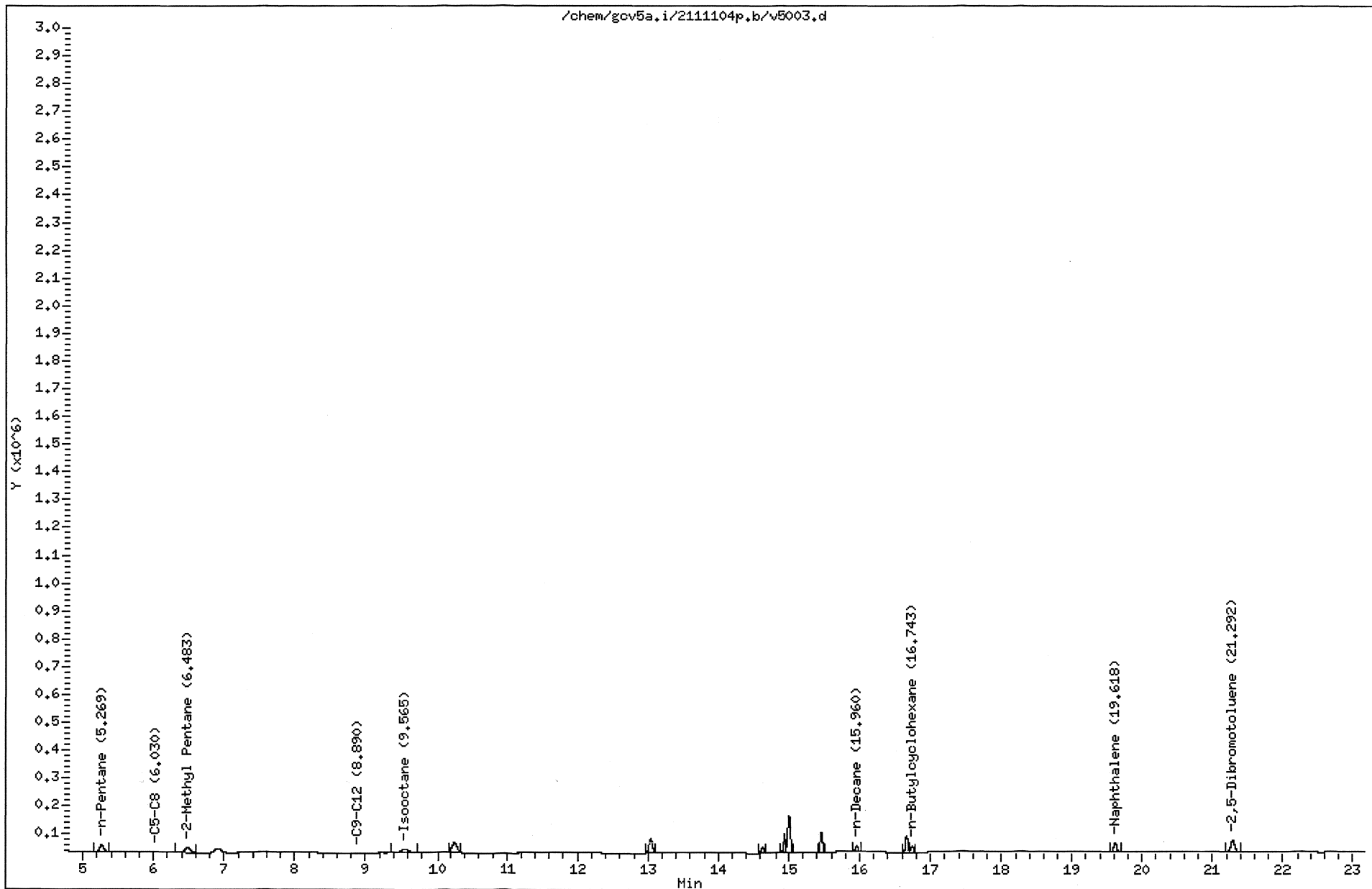
Sample Info: VPH10/6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

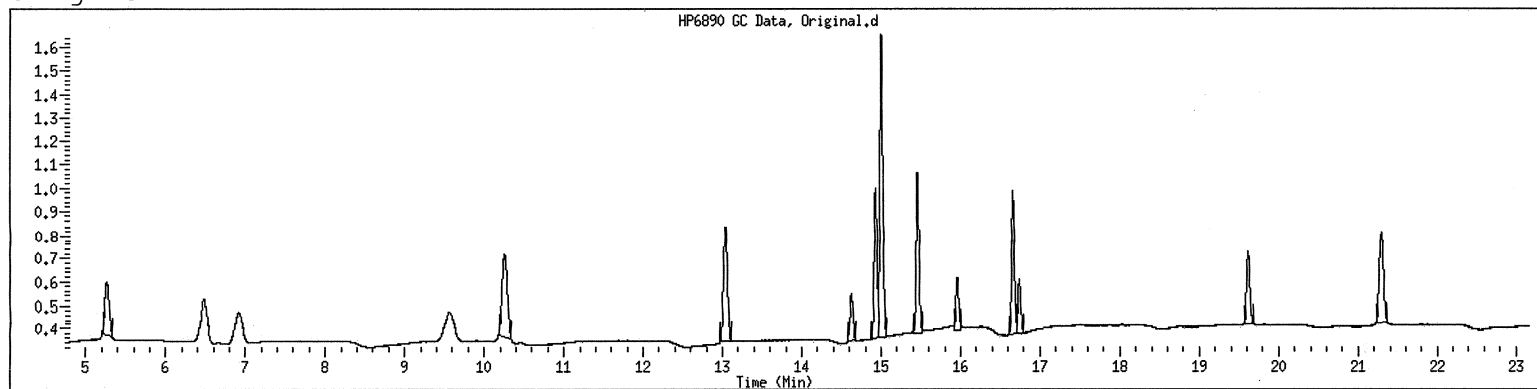
Column diameter: 0,53



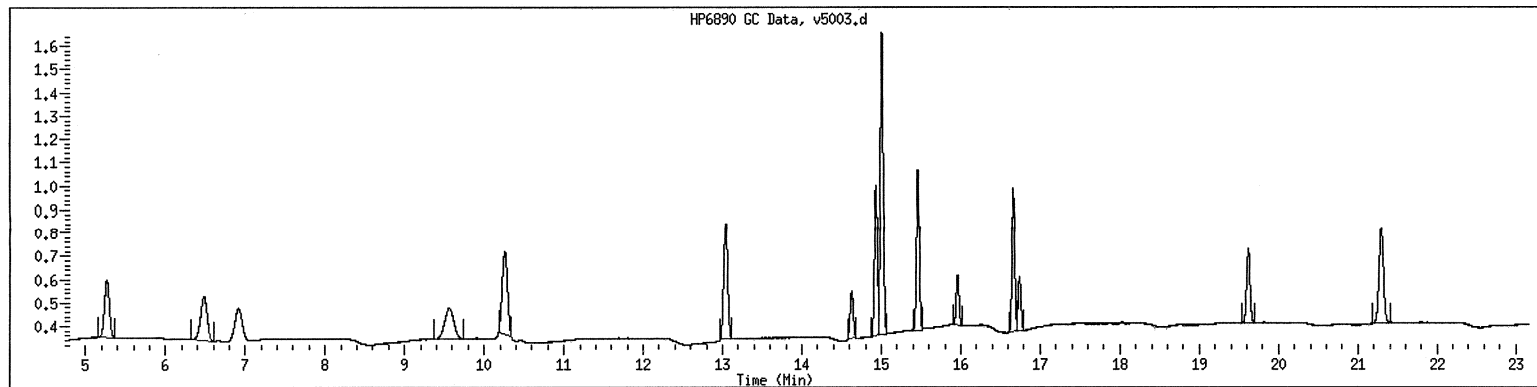
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH10/6/12/4 SampleType : CALIB_1
Injection Date: 11/04/2011 21:56 Instrument : gcv5a.i
Operator : JAR
Sample Info : VPH10/6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111104p.b/v5005.d
 Lab Smp Id: VPH20/6/12/4
 Inj Date : 04-NOV-2011 22:55
 Operator : JAR
 Smp Info : VPH20/6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
 Meth Date : 07-Nov-2011 10:29 jar
 Cal Date : 04-NOV-2011 22:55
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5a.i
 Quant Type: ESTD
 Cal File: v5005.d
 Calibration Sample, Level: 2
 Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
M 2 C5-C8				661397	60.0000	62.0
1 n-Pentane	5.267	5.267	0.000	204224	20.0000	20.3 (M1)
3 2-Methyl Pentane	6.482	6.482	0.000	242197	20.0000	21.4 (M1)
6 Isooctane	9.563	9.563	0.000	214976	20.0000	20.2 (M1)
13 n-Decane	15.959	15.959	0.000	101700	20.0000	19.5 (M1)
15 n-Butylcyclohexane	16.742	16.742	0.000	119364	20.0000	20.2 (M1)
16 Naphthalene	19.617	19.617	0.000	180224	20.0000	19.8 (M1)
M 5 C9-C12				221064	40.0000	39.8
\$ 17 2,5-Dibromotoluene	21.291	21.291	0.000	150438	50.0000	48.8 (M1)

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Data File: /chem/gcv5a.i/2111104p.b/v5005.d

Page 1

Date : 04-NOV-2011 22:55

Client ID:

Instrument: gcv5a.i

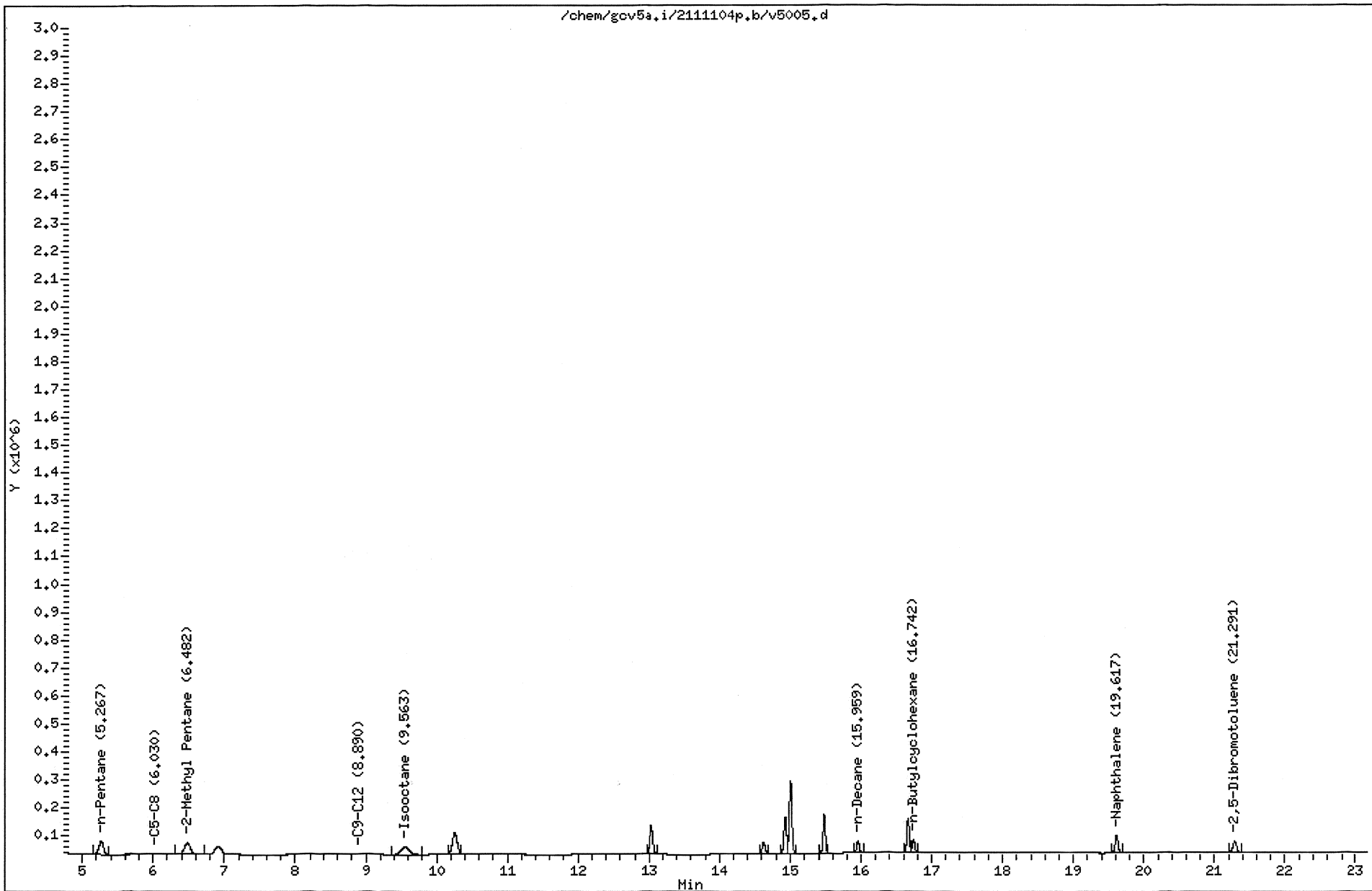
Sample Info: VPH20/6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

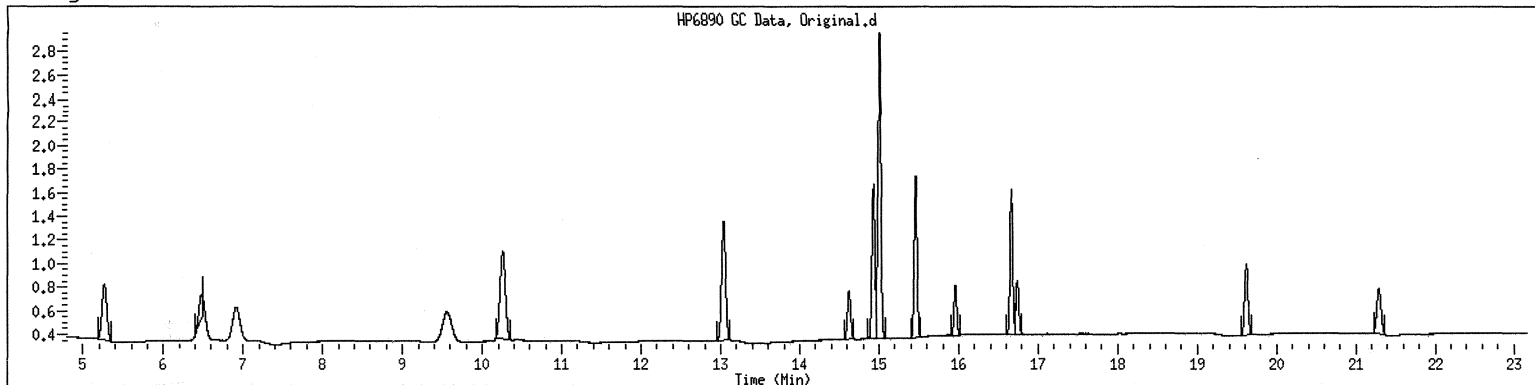


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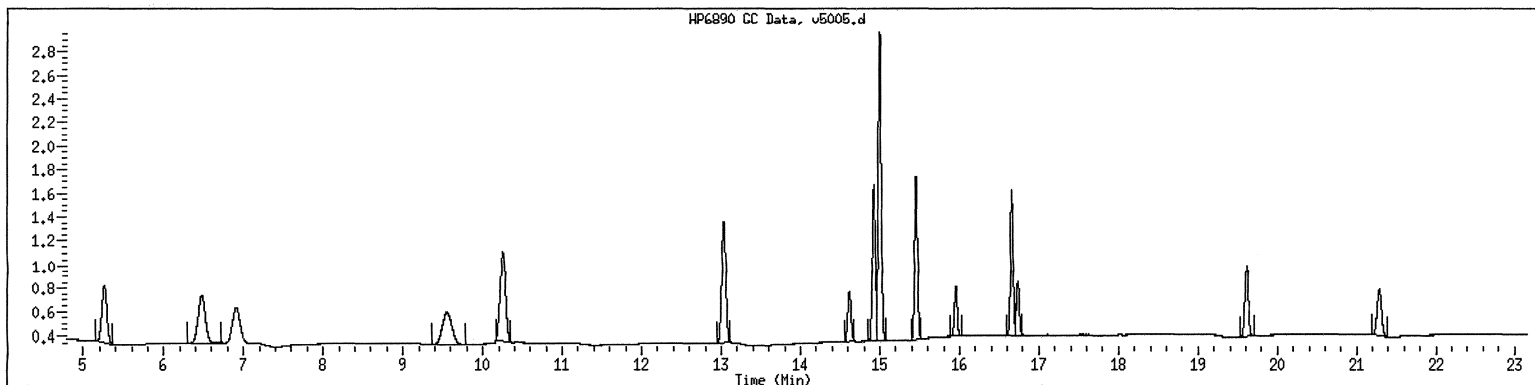
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH20/6/12/4 SampleType : CALIB_2
Injection Date: 11/04/2011 22:55 Instrument : gcv5a.i
Operator : JAR
Sample Info : VPH20/6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111104p.b/v5007.d
Lab Smp Id: VPH50/6/12/4
Inj Date : 04-NOV-2011 23:54
Operator : JAR
Smp Info : VPH50/6/12/4
Misc Info :
Comment :
Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
Meth Date : 07-Nov-2011 10:29 jar
Cal Date : 04-NOV-2011 23:54
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Processing Host: org.gcal.com
Inst ID: gcv5a.i
Quant Type: ESTD
Cal File: v5007.d
Calibration Sample, Level: 3
Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
M 2 C5-C8				1433487	150.000	150
1 n-Pentane	5.265	5.265	0.000	442559	50.0000	50.0 (M1)
3 2-Methyl Pentane	6.481	6.481	0.000	508906	50.0000	50.0 (M1)
6 Isooctane	9.561	9.561	0.000	482022	50.0000	50.0 (M1)
13 n-Decane	15.959	15.959	0.000	255356	50.0000	50.0
15 n-Butylcyclohexane	16.741	16.741	0.000	286054	50.0000	50.0 (M1)
16 Naphthalene	19.615	19.615	0.000	447259	50.0000	50.0
M 5 C9-C12				541410	100.000	100
\$ 17 2,5-Dibromotoluene	21.289	21.289	0.000	154983	50.0000	50.0 (M1)

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Date : 04-NOV-2011 23:54

Client ID:

Instrument: gcv5a.i

Sample Info: VPH50/6/12/4

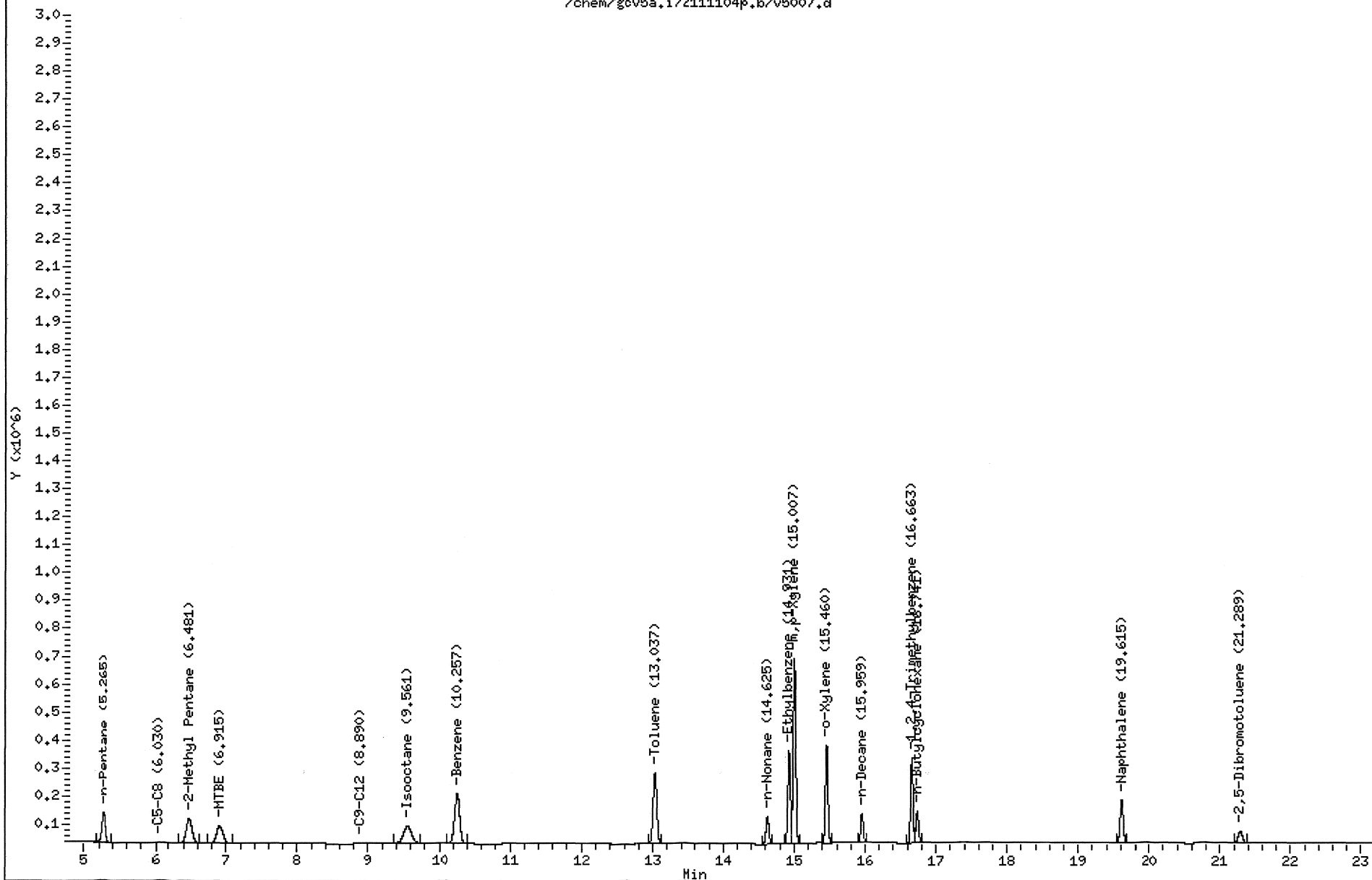
Operator: JAR

Volume Injected (uL): 1.0

Column diameter: 0.53

Column phase: DB-624-30

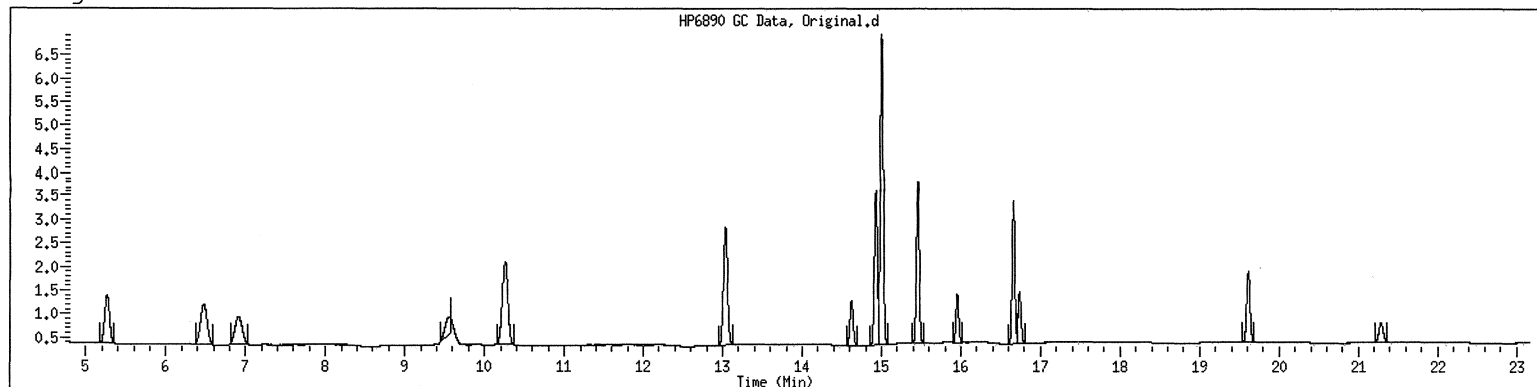
/chem/gcv5a.i/2111104p.b/v5007.d



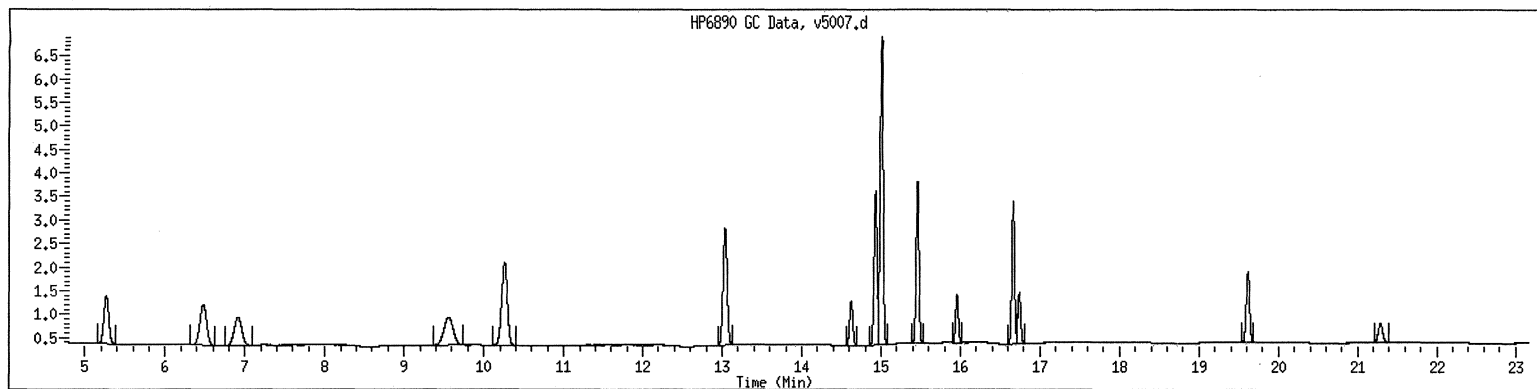
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH50/6/12/4 SampleType : CALIB_3
Injection Date: 11/04/2011 23:54 Instrument : gcv5a.i
Operator : JAR
Sample Info : VPH50/6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111104p.b/v5009.d
 Lab Smp Id: VPH80/6/12/4
 Inj Date : 05-NOV-2011 00:53
 Operator : JAR
 Smp Info : VPH80/6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
 Meth Date : 07-Nov-2011 10:29 jar
 Cal Date : 05-NOV-2011 00:53
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5a.i
 Quant Type: ESTD
 Cal File: v5009.d
 Calibration Sample, Level: 4
 Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
M 2 C5-C8				2126034	240.000	206
1 n-Pentane	5.264	5.264	0.000	605714	80.0000	63.4
3 2-Methyl Pentane	6.481	6.481	0.000	766261	80.0000	70.0 (M1)
6 Isooctane	9.559	9.559	0.000	754059	80.0000	72.4 (M1)
13 n-Decane	15.958	15.958	0.000	512745	80.0000	94.2
15 n-Butylcyclohexane	16.740	16.740	0.000	499891	80.0000	83.8 (M1)
16 Naphthalene	19.614	19.614	0.000	674677	80.0000	75.5
M 5 C9-C12				1012636	160.000	178
\$ 17 2,5-Dibromotoluene	21.288	21.288	0.000	139338	50.0000	46.1

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Data File: /chem/gcv5a,i/2111104p.b/v5009.d

Page 1

Date : 05-NOV-2011 00:53

Client ID:

Instrument: gcv5a.i

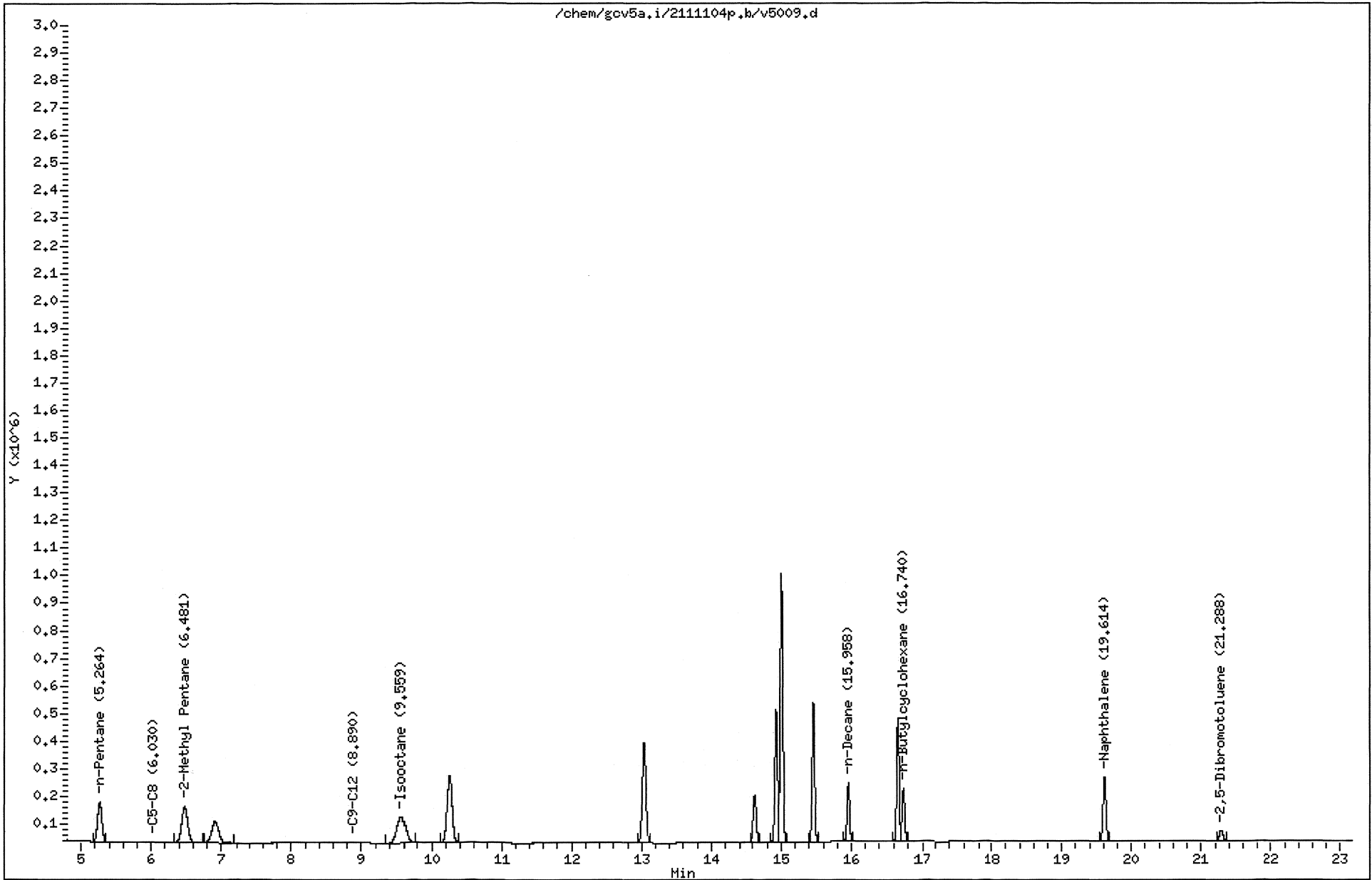
Sample Info: VPH80/6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

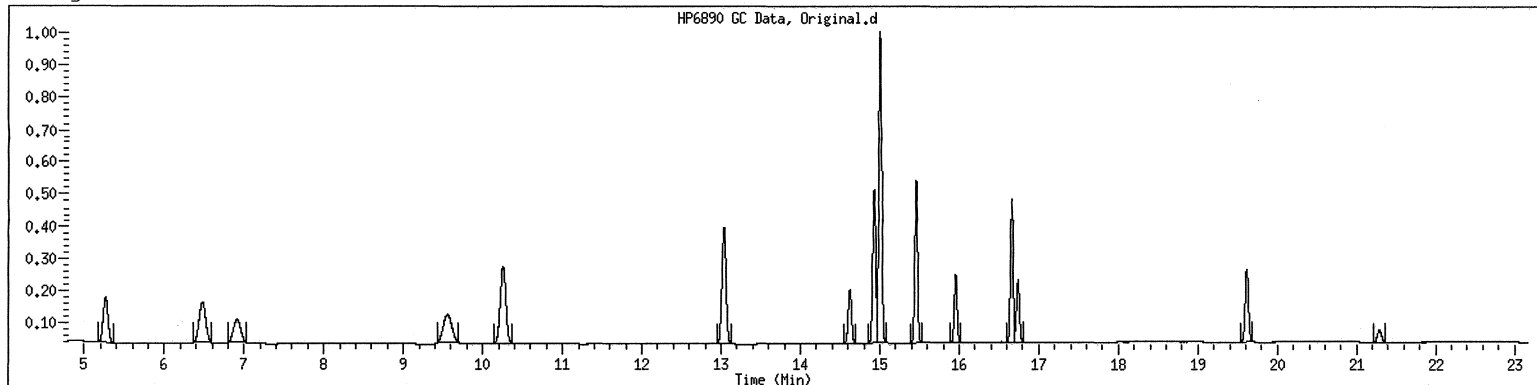


211110257 305

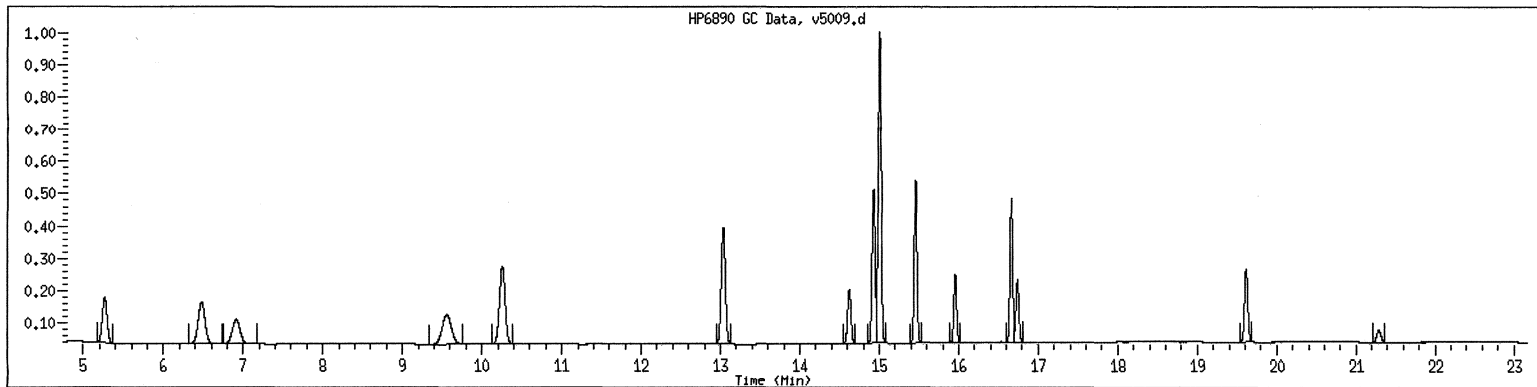
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH80/6/12/4 SampleType : CALIB_4
Injection Date: 11/05/2011 00:53 Instrument : gcv5a.i
Operator : JAR
Sample Info : VPH80/6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111104p.b/v5011.d
 Lab Smp Id: VPH100/6/12/4
 Inj Date : 05-NOV-2011 01:52
 Operator : JAR
 Smp Info : VPH100/6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
 Meth Date : 07-Nov-2011 10:29 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5a.i
 Quant Type: ESTD
 Cal File: v5011.d
 Calibration Sample, Level: 5
 Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP	RT	DLT	RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/L)	ON-COL (ug/L)
M 2 C5-C8						2225866	300.000	226
1 n-Pentane	5.263	5.263	0.000			625897	100.000	69.5 (M1)
3 2-Methyl Pentane	6.480	6.480	0.000			789446	100.000	75.6 (M1)
6 Isooctane	9.557	9.557	0.000			810523	100.000	80.8 (M1)
13 n-Decane	15.959	15.959	0.000			610961	100.000	110 (A)
15 n-Butylcyclohexane	16.742	16.742	0.000			590825	100.000	99.2 (M1)
16 Naphthalene	19.617	19.617	0.000			852519	100.000	96.3
M 5 C9-C12						1201786	200.000	209
\$ 17 2,5-Dibromotoluene	21.294	21.294	0.000			141234	50.0000	47.2

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M1- Compound response manually integrated because Target system did not integrate.

Data File: /chem/gov5a.i/2111104p.b/v5011.d

Page 1

Date : 05-NOV-2011 01:52

Client ID:

Instrument: gov5a.i

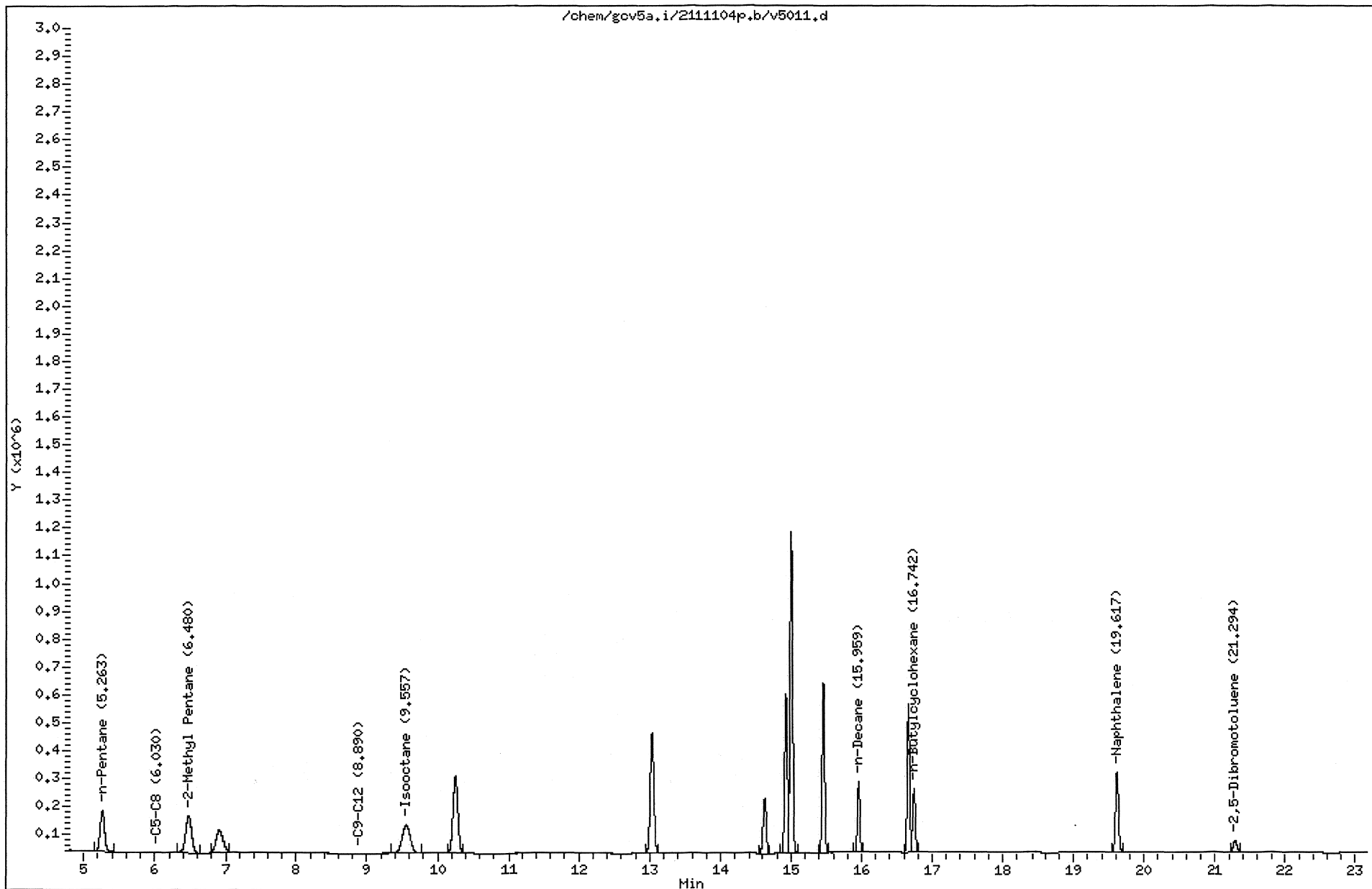
Sample Info: VPH100/6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

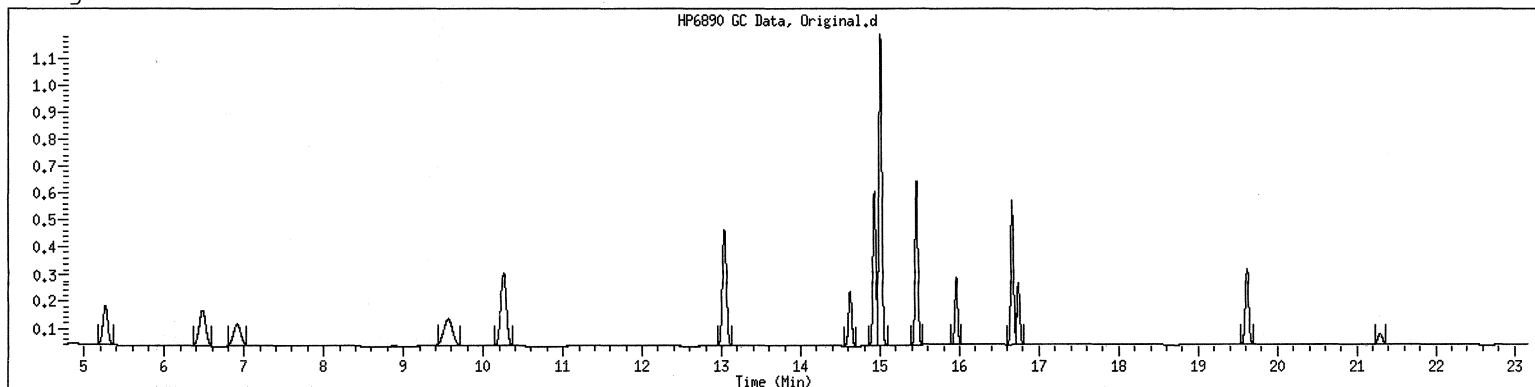


211110257 309

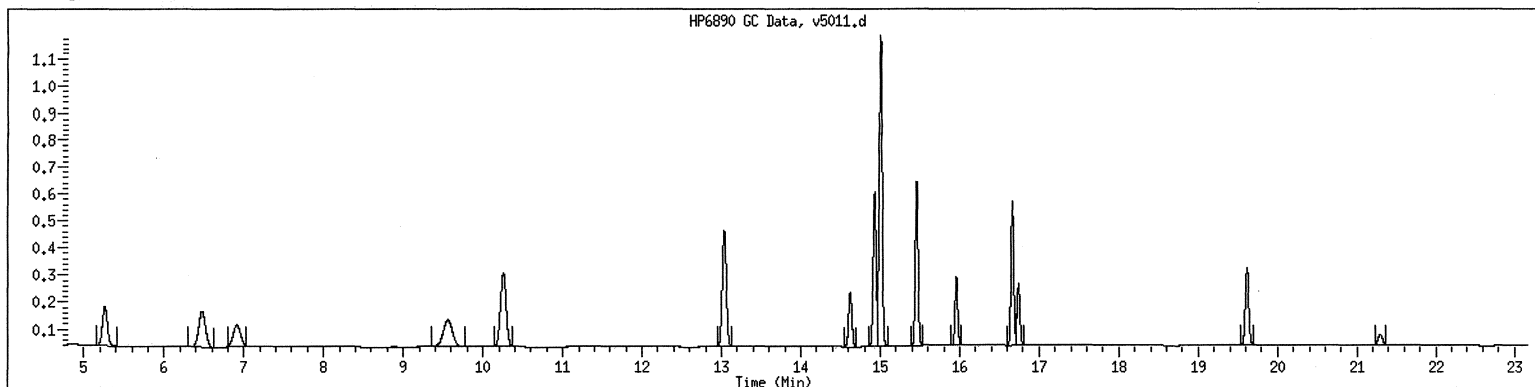
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH100/6/12/4 SampleType : CALIB_5
Injection Date: 11/05/2011 01:52 Instrument : gcv5a.i
Operator : JAR
Sample Info : VPH100/6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



GCAL, Inc.

RECOVERY REPORT

Client Name: Client SDG: 2111104p
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: ICV6/12/5
 Level: LOW Operator: JAR
 Data Type: GC MULTI COMP SampleType: LCS
 SpikeList File: aliphatic1.spk Quant Type: ESTD
 Sublist File: aliphatic1+surr.sub
 Method File: /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
 Misc Info:

SPIKE COMPOUND		AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
	1 n-Pentane	50.0	46.6	93.10	70-130
M	2 C5-C8	150	139	92.95	70-130
	3 2-Methyl Pentane	50.0	48.5	96.95	70-130
M	5 C9-C12	100	92.4	92.37	70-130
	6 Isooctane	50.0	44.4	88.79	70-130
	13 n-Decane	50.0	44.9	89.88	70-130
	15 n-Butylcyclohexane	50.0	47.4	94.86	70-130
	16 Naphthalene	50.0	54.8	109.51	70-130

SURROGATE COMPOUND		AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$	17 2,5-Dibromotoluene	50.0	49.5	99.05	70-130

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111104p.b/v5013.d
 Lab Smp Id: ICV6/12/5
 Inj Date : 05-NOV-2011 02:51
 Operator : JAR
 Smp Info : ICV6/12/5
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
 Meth Date : 07-Nov-2011 10:22 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5a.i
 Quant Type: ESTD
 Cal File: v5011.d
 QC Sample: LCS
 Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
M 2 C5-C8				1370151	139.426	139
1 n-Pentane	5.264	5.263	0.001	418980	46.5524	46.6 (M1)
3 2-Methyl Pentane	6.480	6.480	0.000	505982	48.4762	48.5 (M1)
6 Isooctane	9.555	9.557	-0.002	445188	44.3972	44.4 (M1)
13 n-Decane	15.958	15.959	-0.001	249629	44.9383	44.9
15 n-Butylcyclohexane	16.741	16.742	-0.001	282608	47.4296	47.4
16 Naphthalene	19.615	19.617	-0.002	484765	54.7551	54.8
M 5 C9-C12				532237	92.3679	92.4
§ 17 2,5-Dibromotoluene	21.290	21.294	-0.004	148060	49.5241	49.5

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Date : 05-NOV-2011 02:51

Client ID:

Instrument: gcv5a.i

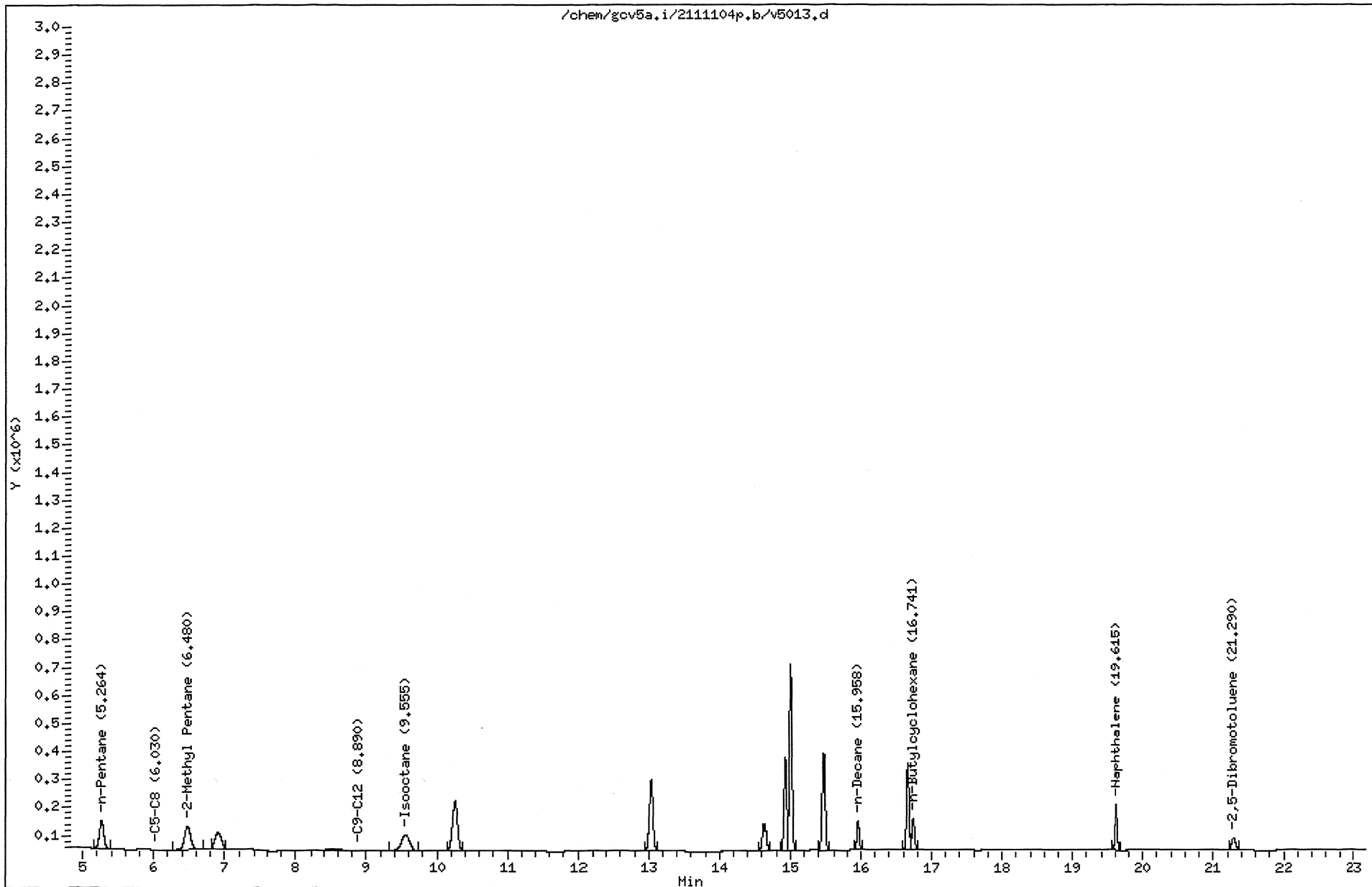
Sample Info: ICV6/12/5

Operator: JAR

Volume Injected (uL): 1.0

Column diameter: 0.53

Column phase: DB-624-30

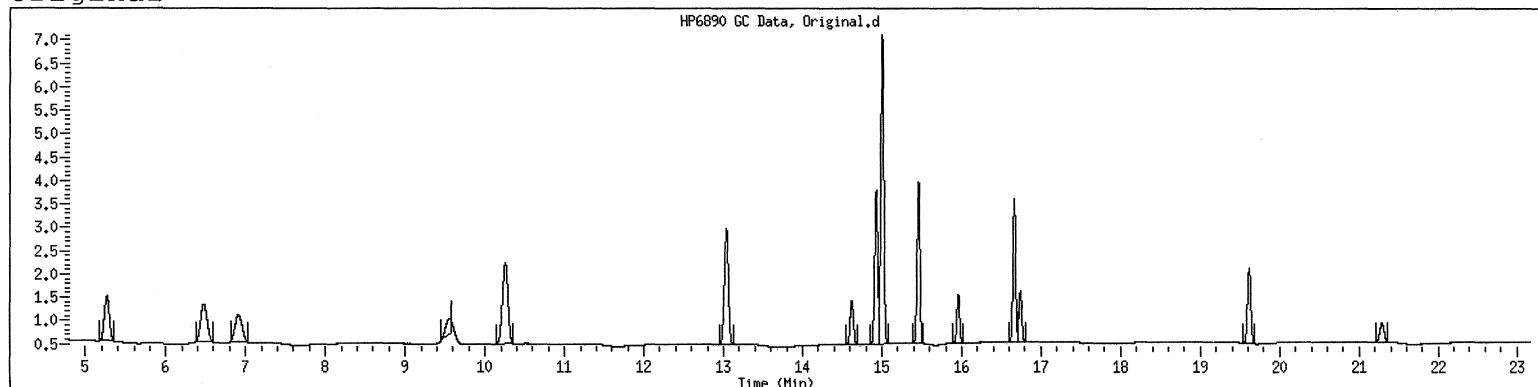


211110257 314

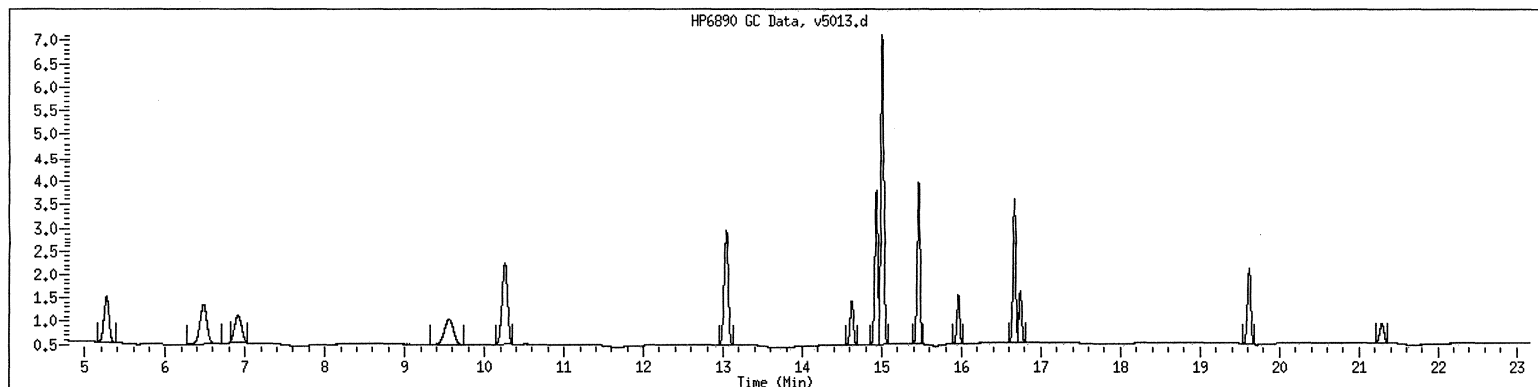
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: ICV6/12/5	SampleType	: LCS
Injection Date	: 11/05/2011 02:51	Instrument	: gcv5a.i
Operator	: JAR		
Sample Info	: ICV6/12/5		
Misc Info	:		
Method	: /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: Falcon	Compound Sublist	: aliphatic1+surr

Original



Final



GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcv5a.i Injection Date: 07-NOV-2011 11:22
Lab File ID: v5001.d Init. Cal. Date(s): 04-NOV-2011 05-NOV-2011
Analysis Type: WATER Init. Cal. Times: 20:57 01:52
Lab Sample ID: VPH6/12/4 Quant Type: ESTD
Method: /var/chem/gcv5a.i/2111107.b/FIDMVPH.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
M 2 C5-C8	9822	10063	0.010	-2.45242	25.00000	Averaged	
1 n-Pentane	9000	9099	0.010	-1.09665	25.00000	Averaged	
3 2-Methyl Pentane	10438	10571	0.010	-1.27340	25.00000	Averaged	
6 Isooctane	10027	10518	0.010	-4.89657	25.00000	Averaged	
13 n-Decane	5555	5515	0.010	0.72519	25.00000	Averaged	
15 n-Butylcyclohexane	5958	6214	0.010	-4.28469	25.00000	Averaged	
16 Naphthalene	8853	9172	0.010	-3.60219	25.00000	Averaged	
M 5 C9-C12	5437	5864	0.010	-7.84785	25.00000	Averaged	
\$ 17 2,5-Dibromotoluene	2990	2988	0.010	0.04259	30.00000	Averaged	

Average %D / Drift Results.

Calculated Average %D/Drift = 2.91351
Maximun Average %D/Drift = 25.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5001.d
 Lab Smp Id: VPH6/12/4
 Inj Date : 07-NOV-2011 11:22
 Operator : JAR
 Smp Info : VPH6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
 Meth Date : 08-Nov-2011 13:07 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5a.i
 Quant Type: ESTD
 Cal File: v5011.d
 Continuing Calibration Sample
 Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
M 2 C5-C8				1509398	150.000	154
1 n-Pentane	5.269	5.269	0.000	454944	50.0000	50.5
3 2-Methyl Pentane	6.485	6.485	0.000	528534	50.0000	50.6
6 Isooctane	9.563	9.563	0.000	525920	50.0000	52.4(M1)
13 n-Decane	15.961	15.961	0.000	275732	50.0000	49.6
15 n-Butylcyclohexane	16.743	16.743	0.000	310689	50.0000	52.1
16 Naphthalene	19.618	19.618	0.000	458612	50.0000	51.8
M 5 C9-C12				586421	100.000	102
\$ 17 2,5-Dibromotoluene	21.295	21.295	0.000	149419	50.0000	50.0

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Data File: /chem/gcv5a.i/2111107.b/v5001.d

Page 1

Date : 07-NOV-2011 11:22

Client ID:

Instrument: gcv5a.i

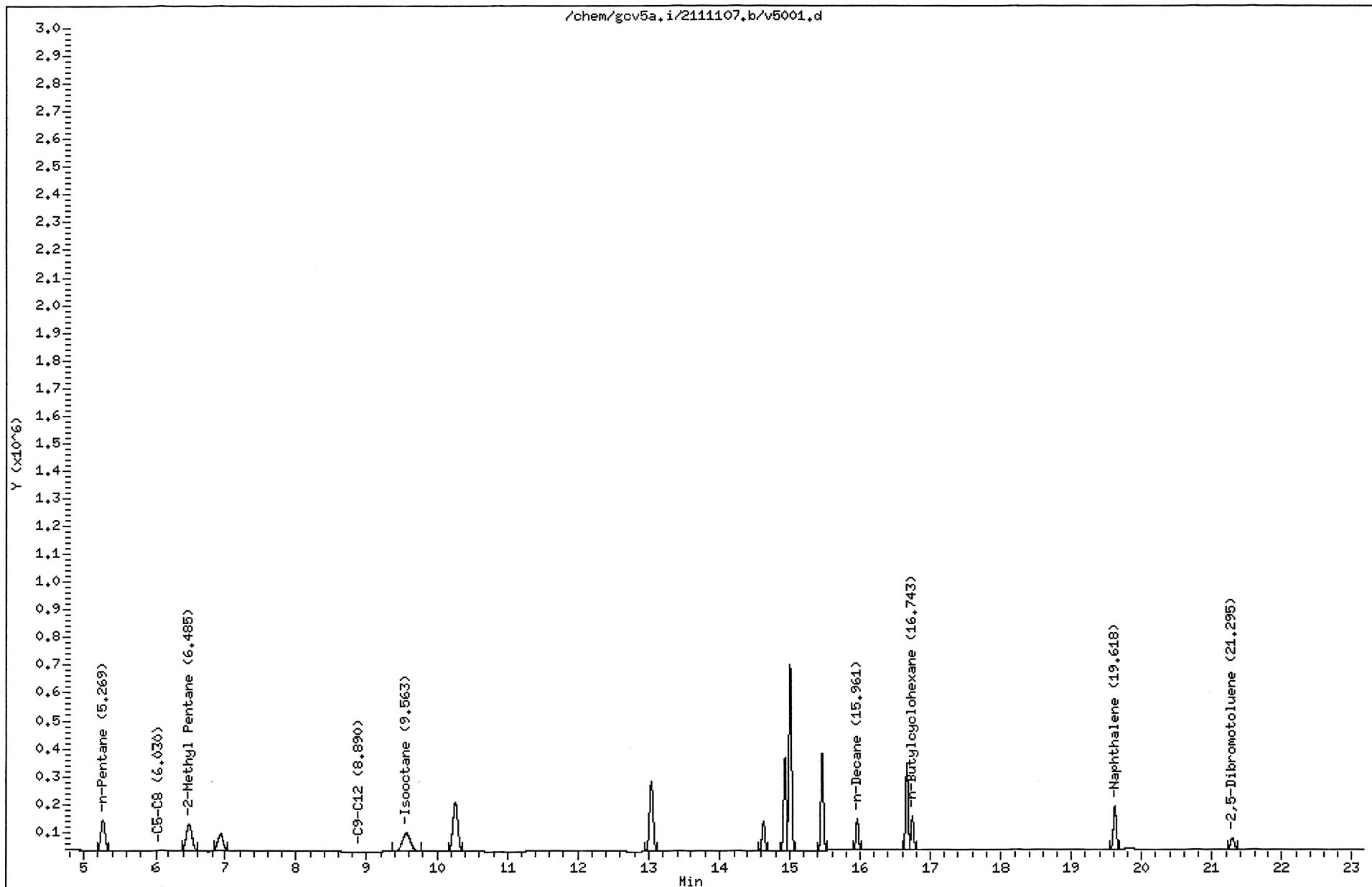
Sample Info: VPH6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

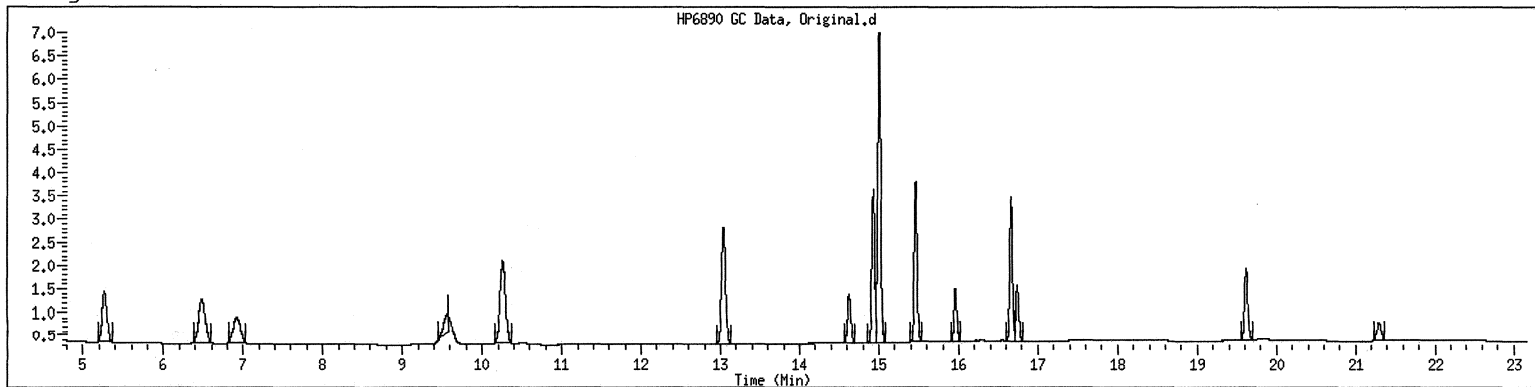


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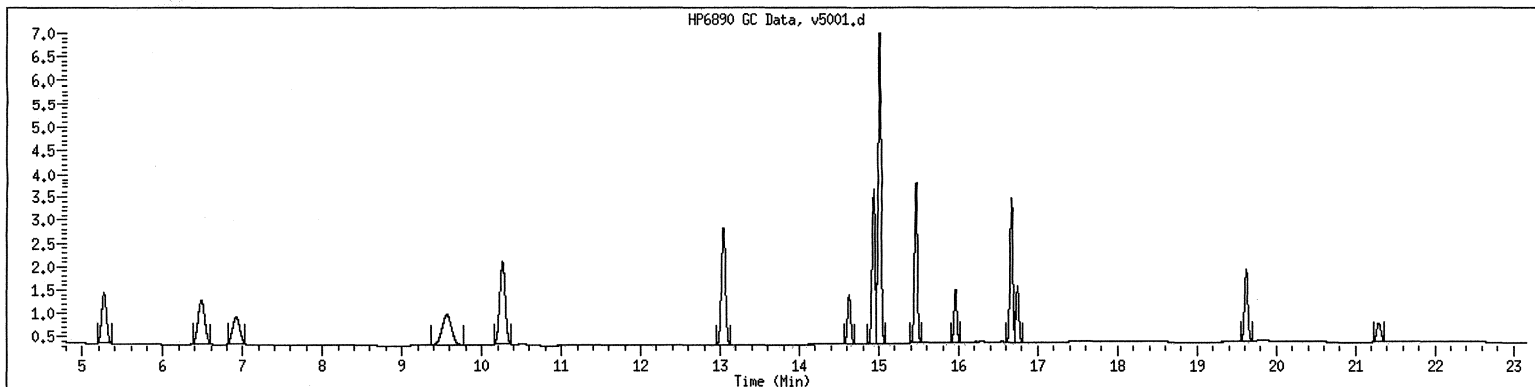
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH6/12/4 SampleType : CCALIB_3
Injection Date: 11/07/2011 11:22 Instrument : gcv5a.i
Operator : JAR
Sample Info : VPH6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcv5a.i Injection Date: 07-NOV-2011 16:16
 Lab File ID: v5011.d Init. Cal. Date(s): 04-NOV-2011 05-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 20:57 01:52
 Lab Sample ID: VPH6/12/4 Quant Type: ESTD
 Method: /var/chem/gcv5a.i/2111107.b/FIDMVPH.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D	%DRIFT	
M 2 C5-C8	9822	9001	0.010	8.35987	25.00000	Averaged	
1 n-Pentane	9000	8133	0.010	9.63580	25.00000	Averaged	
13 2-Methyl Pentane	10438	9389	0.010	10.04971	25.00000	Averaged	
16 Isooctane	10027	9480	0.010	5.45566	25.00000	Averaged	
13 n-Decane	5555	5714	0.010	-2.86154	25.00000	Averaged	
15 n-Butylcyclohexane	5958	5735	0.010	3.75193	25.00000	Averaged	
16 Naphthalene	8853	8972	0.010	-1.34067	25.00000	Averaged	
M 5 C9-C12	5437	5724	0.010	-5.27663	25.00000	Averaged	
17 2,5-Dibromotoluene	2990	2912	0.010	2.61212	30.00000	Averaged	

Average %D / Drift Results.

Calculated Average %D/Drift = 5.48266
 Maximum Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5011.d
 Lab Smp Id: VPH6/12/4
 Inj Date : 07-NOV-2011 16:16
 Operator : JAR
 Smp Info : VPH6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
 Meth Date : 07-Nov-2011 17:08 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5a.i
 Quant Type: ESTD
 Cal File: v5011.d
 Continuing Calibration Sample
 Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
M 2 C5-C8				1350104	150.000	137
1 n-Pentane	5.266	5.266	0.000	406647	50.0000	45.2
3 2-Methyl Pentane	6.482	6.482	0.000	469440	50.0000	45.0
6 Isooctane	9.562	9.562	0.000	474017	50.0000	47.3 (M1)
13 n-Decane	15.963	15.963	0.000	285694	50.0000	51.4
15 n-Butylcyclohexane	16.746	16.746	0.000	286746	50.0000	48.1
16 Naphthalene	19.623	19.623	0.000	448601	50.0000	50.7
M 5 C9-C12				572440	100.000	99.6
\$ 17 2,5-Dibromotoluene	21.301	21.301	0.000	145578	50.0000	48.7

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Data File: /chem/gcv5a.i/2111107,b/v5011,d

Page 1

Date : 07-NOV-2011 16:16

Client ID:

Instrument: gcv5a.i

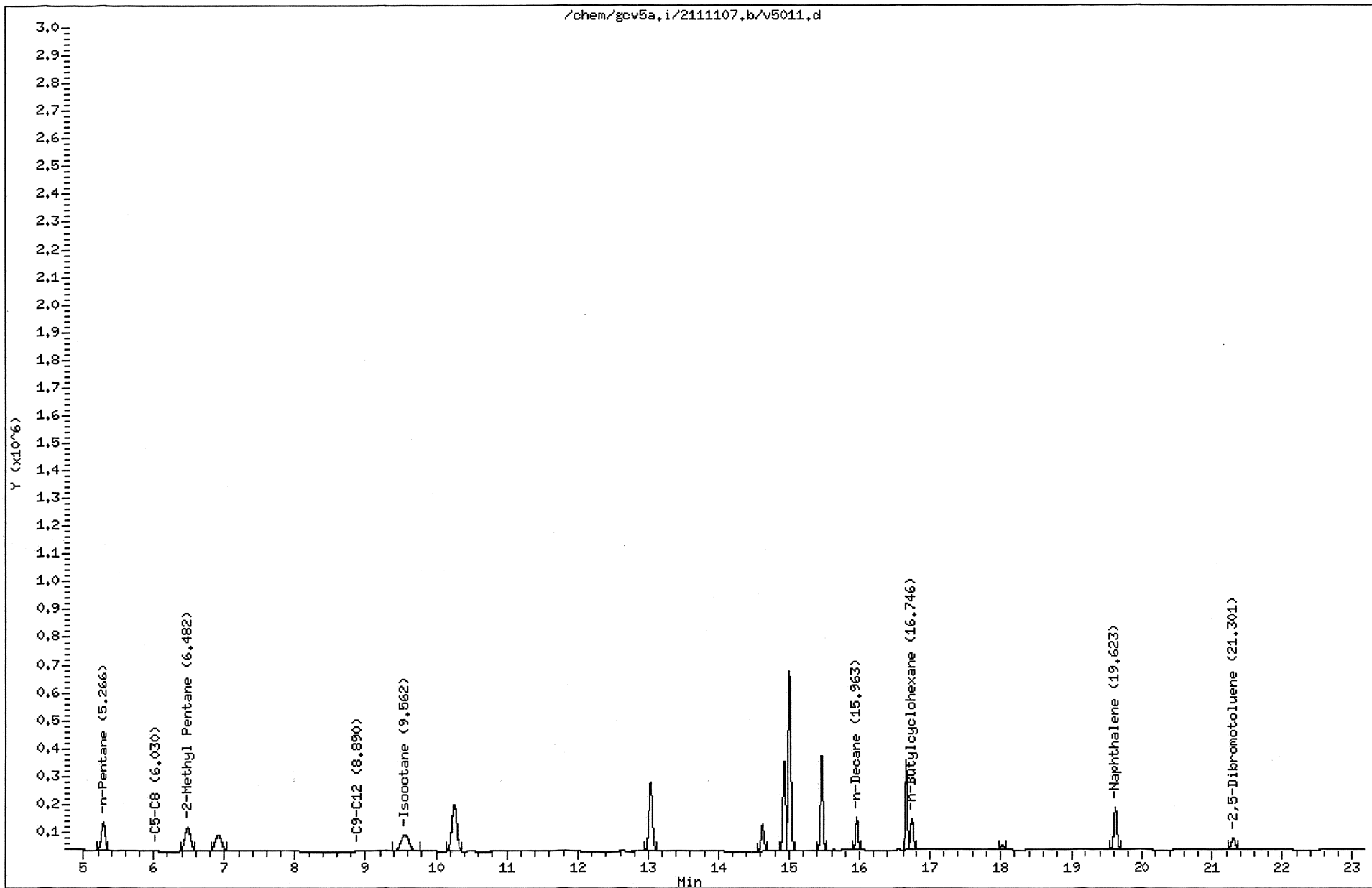
Sample Info: VPH6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

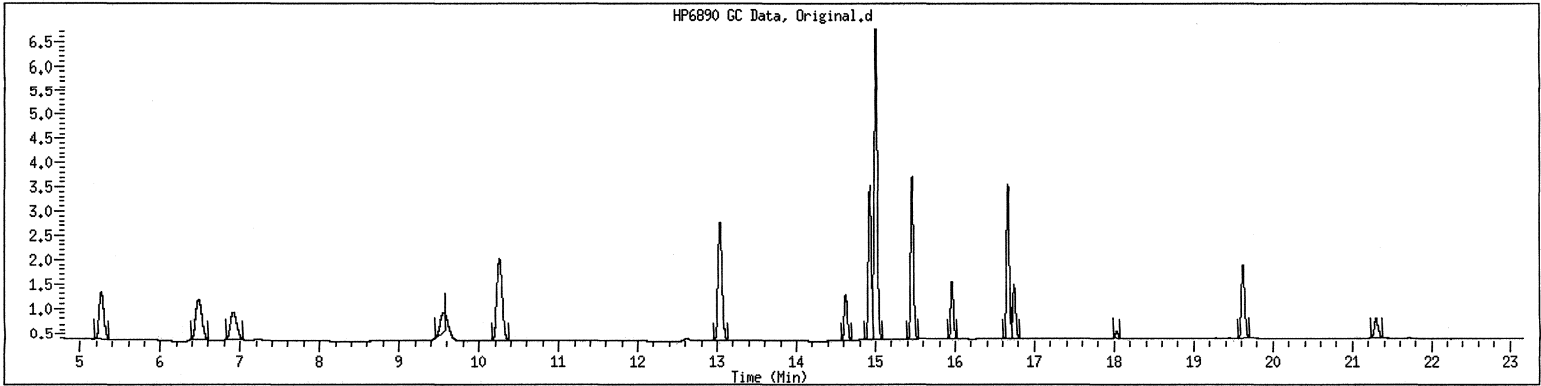


211110257 324

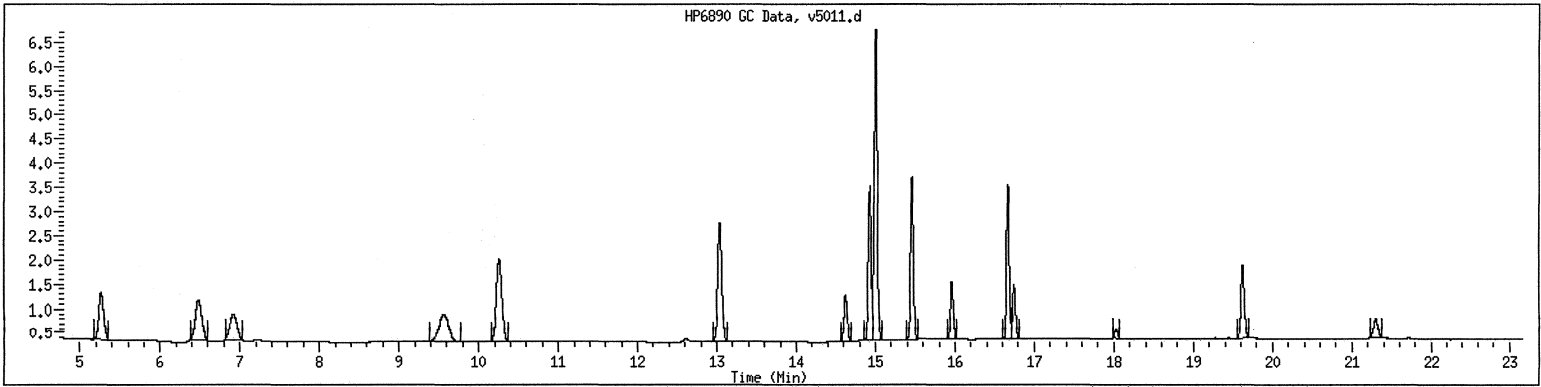
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: VPH6/12/4	SampleType	: CCALIB_3
Injection Date	: 11/07/2011 16:16	Instrument	: gcv5a.i
Operator	: JAR		
Sample Info	: VPH6/12/4		
Misc Info	:		
Method	: /var/chem/gcv5a.i/2111107.b/FIDMVPH.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: Falcon	Compound Sublist	: aliphatic1+surr

Original



Final



GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcv5a.i Injection Date: 07-NOV-2011 23:22
Lab File ID: v5021.d Init. Cal. Date(s): 04-NOV-2011 05-NOV-2011
Analysis Type: WATER Init. Cal. Times: 20:57 01:52
Lab Sample ID: VPH6/12/4 Quant Type: ESTD
Method: /var/chem/gcv5a.i/2111107.b/FIDMVPH.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M 2 C5-C8	9822	9028	0.010	8.07690	25.00000	Averaged
1 n-Pentane	9000	8035	0.010	10.72067	25.00000	Averaged
3 2-Methyl Pentane	10438	9486	0.010	9.12269	25.00000	Averaged
6 Isooctane	10027	9565	0.010	4.61537	25.00000	Averaged
13 n-Decane	5555	4698	0.010	15.42674	25.00000	Averaged
15 n-Butylcyclohexane	5958	5459	0.010	8.38734	25.00000	Averaged
16 Naphthalene	8853	9479	0.010	-7.06687	25.00000	Averaged
M 5 C9-C12	5437	5078	0.010	6.60479	25.00000	Averaged
\$ 17 2,5-Dibromotoluene	2990	3336	0.010	-11.58685	30.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 9.06758
Maximum Average %D/Drift = 25.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5021.d
 Lab Smp Id: VPH6/12/4
 Inj Date : 07-NOV-2011 23:22
 Operator : JAR
 Smp Info : VPH6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
 Meth Date : 08-Nov-2011 10:11 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5a.i
 Quant Type: ESTD
 Cal File: v5011.d
 Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
M 2 C5-C8				1354273	137.771	138
1 n-Pentane	5.265	5.266	-0.001	401765	44.6397	44.6
3 2-Methyl Pentane	6.482	6.482	0.000	474278	45.4387	45.4
6 Isooctane	9.562	9.562	0.000	478230	47.6924	47.7 (M1)
13 n-Decane	15.961	15.963	-0.002	234899	42.2866	42.3
15 n-Butylcyclohexane	16.743	16.746	-0.003	272936	45.8063	45.8
16 Naphthalene	19.618	19.623	-0.005	473949	53.5334	53.5
M 5 C9-C12				507835	88.0930	88.1
§ 17 2,5-Dibromotoluene	21.293	21.301	-0.008	166803	55.7934	55.8

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Date : 07-NOV-2011 23:22

Client ID:

Instrument: gov5a.i

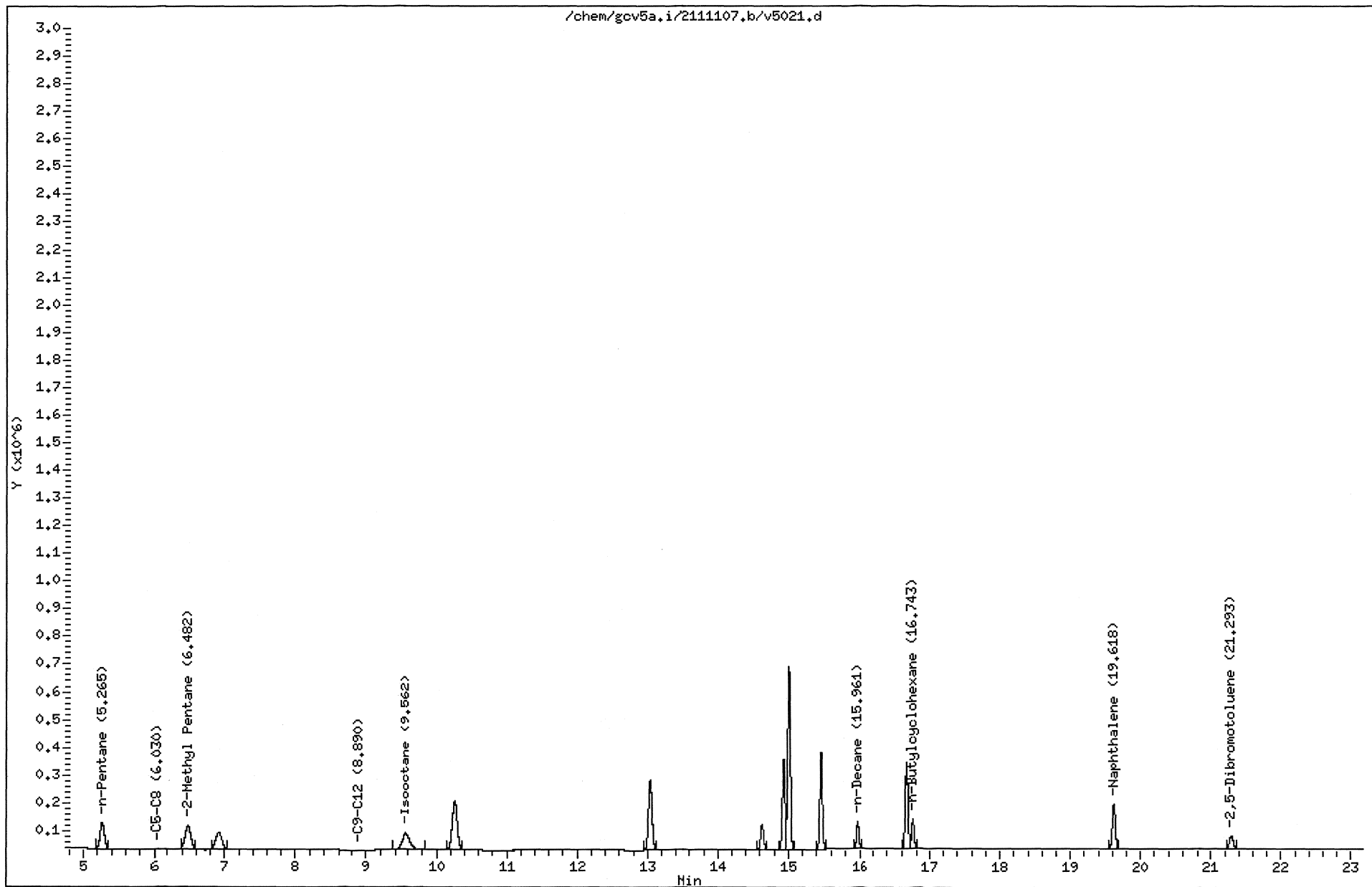
Sample Info: VPH6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

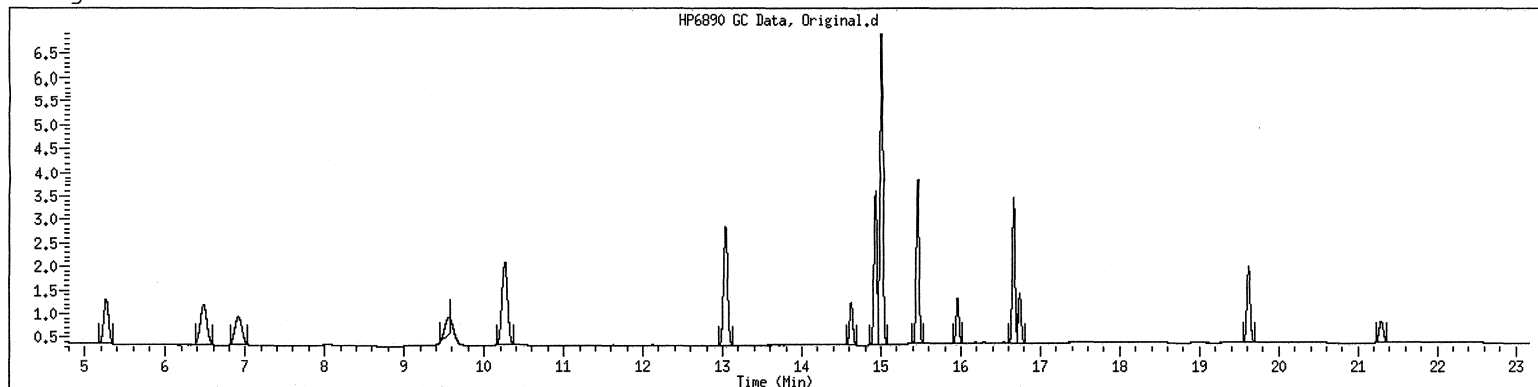


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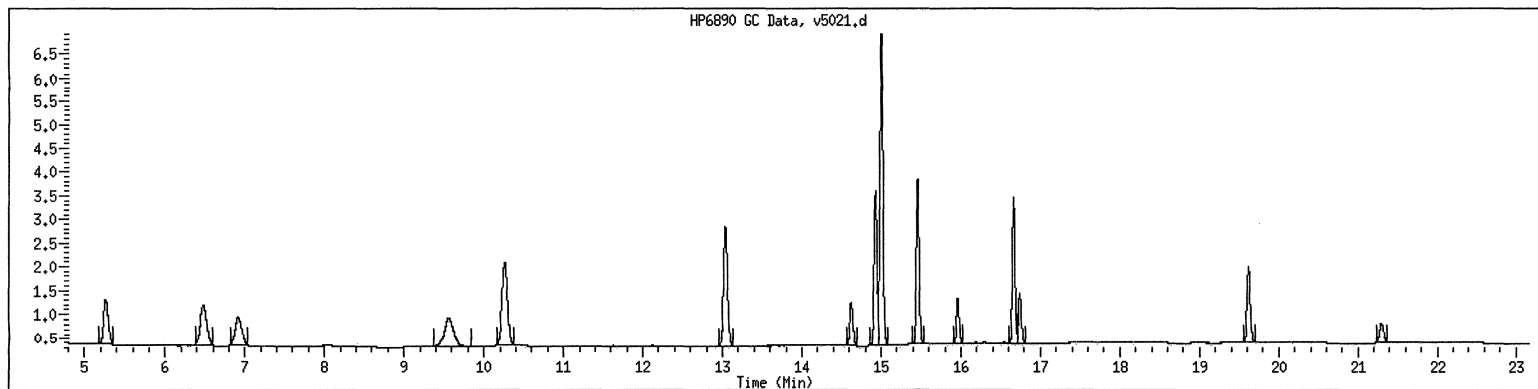
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH6/12/4 SampleType : SAMPLE
Injection Date: 11/07/2011 23:22 Instrument : gcv5a.i
Operator : JAR
Sample Info : VPH6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: MB1003187
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211110257
 Sample wt/vol: 5 Units: mL Lab Sample ID: 1003187
 Level: (low/med) _____ Date Collected: _____ Time: _____
 % Moisture: _____ decanted: (Y/N) _____ Date Received: _____
 GC Column: _____ ID: _____ (mm) Date Extracted: _____
 Concentrated Extract Volume: 5000 (µL) Date Analyzed: 11/07/11 Time: 1221
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: JAR
 Injection Volume: 1 (µL) Prep Method: _____
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSVPH
 Prep Batch: _____ Analytical Batch: 468512 Sulfur Cleanup: (Y/N) N Instrument ID: GCV5B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111107/v5003

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCV-00-4	C5-C8 Aliphatic	15.0	U	3.31	15.0	30.0
GCV-00-5	C9-C12 Aliphatic	10.0	U	3.20	10.0	20.0
GCV-00-6	C9-C10 Aromatic	5.00	U	1.24	5.00	10.0

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5003.d

Lab Smp Id: 1003187 Client Smp ID: 1003187

Inj Date : 07-NOV-2011 12:21

Operator : JAR Inst ID: gcv5b.i

Smp Info : 1003187

Misc Info :

Comment :

Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m

Meth Date : 08-Nov-2011 13:39 jar Quant Type: ESTD

Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d

Als bottle: 1

Dil Factor: 1.00000

Integrator: Falcon Compound Sublist: aromatic.sub

Target Version: 3.50

Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
S 10 2,5-Dibromotoluene	21.786	21.781	0.005	350170	50.0811	50.1

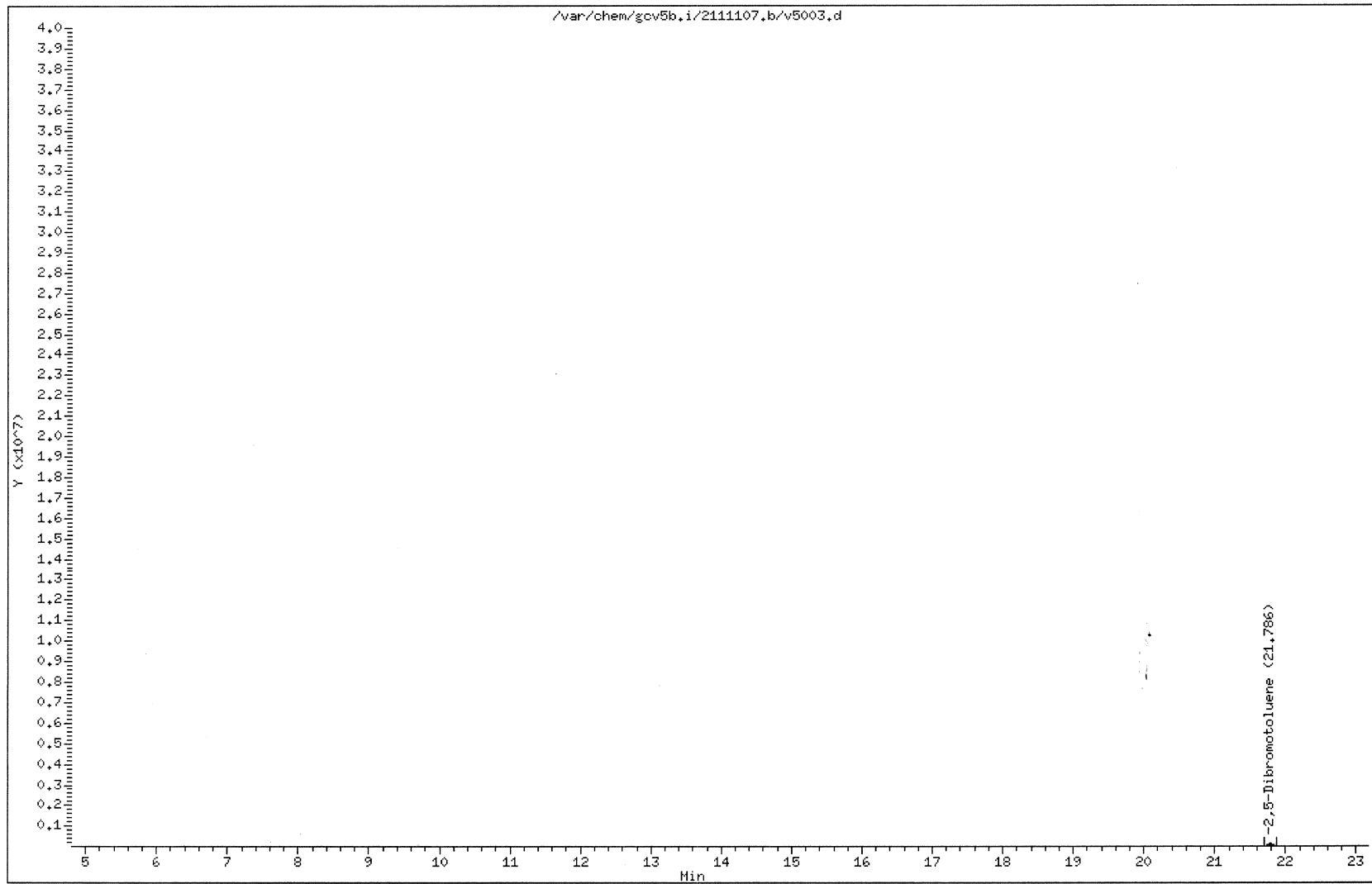
Data File: /var/chem/gcv5b.i/2111107.b/v5003.d
Date : 07-NOV-2011 12:21
Client ID: 1003187
Sample Info: 1003187
Volume Injected (uL): 1.0
Column phase: DB-624-30

Page 1

Instrument: gcv5b.i

Operator: JAR

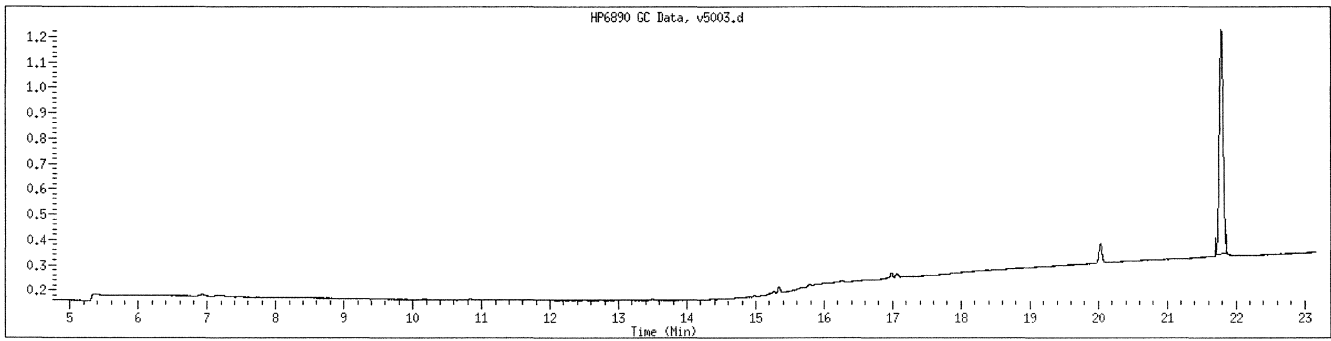
Column diameter: 0.53



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1003187 SampleType : SAMPLE
Injection Date: 11/07/2011 12:21 Instrument : gcv5b.i
Operator : JAR
Sample Info : 1003187
Misc Info :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5003.d
Lab Smp Id: BLK
Inj Date : 07-NOV-2011 12:21
Operator : JAR
Smp Info : BLK
Misc Info :
Comment :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Meth Date : 07-Nov-2011 10:29 jar
Cal Date : 05-NOV-2011 01:52
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Processing Host: org.gcal.com
Inst ID: gcv5a.i
Quant Type: ESTD
Cal File: v5011.d
Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
\$ 17 2,5-Dibromotoluene	21.297	21.294	0.003	143488	47.9950	48.0

Date : 07-NOV-2011 12:21

Client ID:

Instrument: gcv5a.i

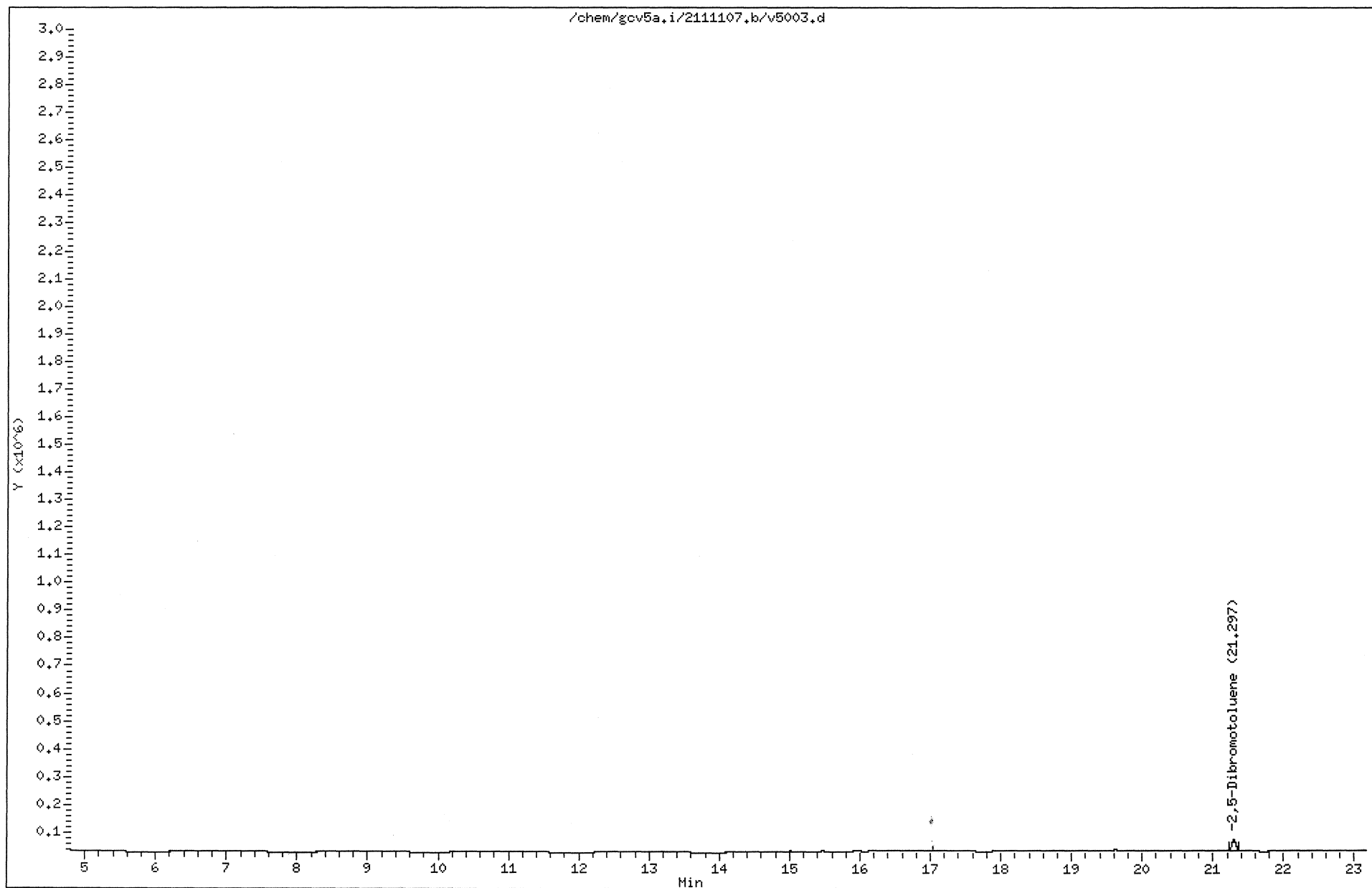
Sample Info: BLK

Operator: JAR

Volume Injected (uL): 1.0

Column diameter: 0.53

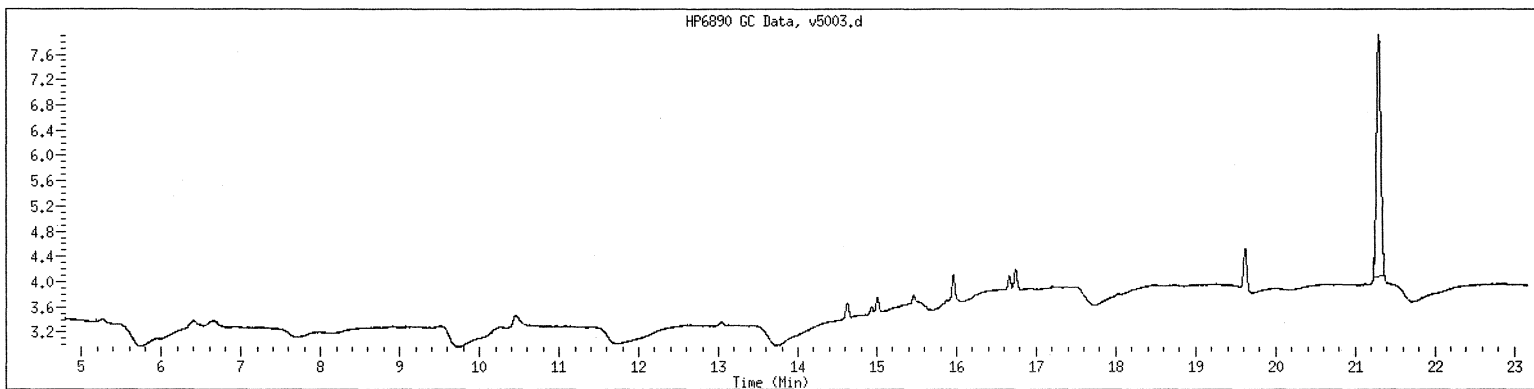
Column phase: DB-624-30



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : BLK
Injection Date: 11/07/2011 12:21
Operator : JAR
Sample Info : BLK
Misc Info :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon
SampleType : SAMPLE
Instrument : gcv5a.i
Compound Sublist: aliphatic1+surr



NO MANUAL INTEGRATIONS

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: LCS1003188
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211110257
 Sample wt/vol: 5 Units: mL Lab Sample ID: 1003188
 Level: (low/med) _____ Date Collected: _____ Time: _____
 % Moisture: _____ decanted: (Y/N) _____ Date Received: _____
 GC Column: _____ ID: _____ (mm) Date Extracted: _____
 Concentrated Extract Volume: 5000 (µL) Date Analyzed: 11/07/11 Time: 1151
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: JAR
 Injection Volume: 1 (µL) Prep Method: _____
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSVPH
 Prep Batch: _____ Analytical Batch: 468512 Sulfur Cleanup: (Y/N) N Instrument ID: GCV5B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111107/v5002

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCV-00-4	C5-C8 Aliphatic	152		3.31	15.0	30.0
GCV-00-5	C9-C12 Aliphatic	105		3.20	10.0	20.0
GCV-00-6	C9-C10 Aromatic	54.4		1.24	5.00	10.0

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5002.d
 Lab Smp Id: 1003188 Client Smp ID: 1003188
 Inj Date : 07-NOV-2011 11:51
 Operator : JAR Inst ID: gcv5b.i
 Smp Info : 1003188
 Misc Info : lcs6/12/4
 Comment :
 Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
 Meth Date : 08-Nov-2011 13:39 jar Quant Type: ESTD
 Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d
 Als bottle: 1 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: aromatic.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

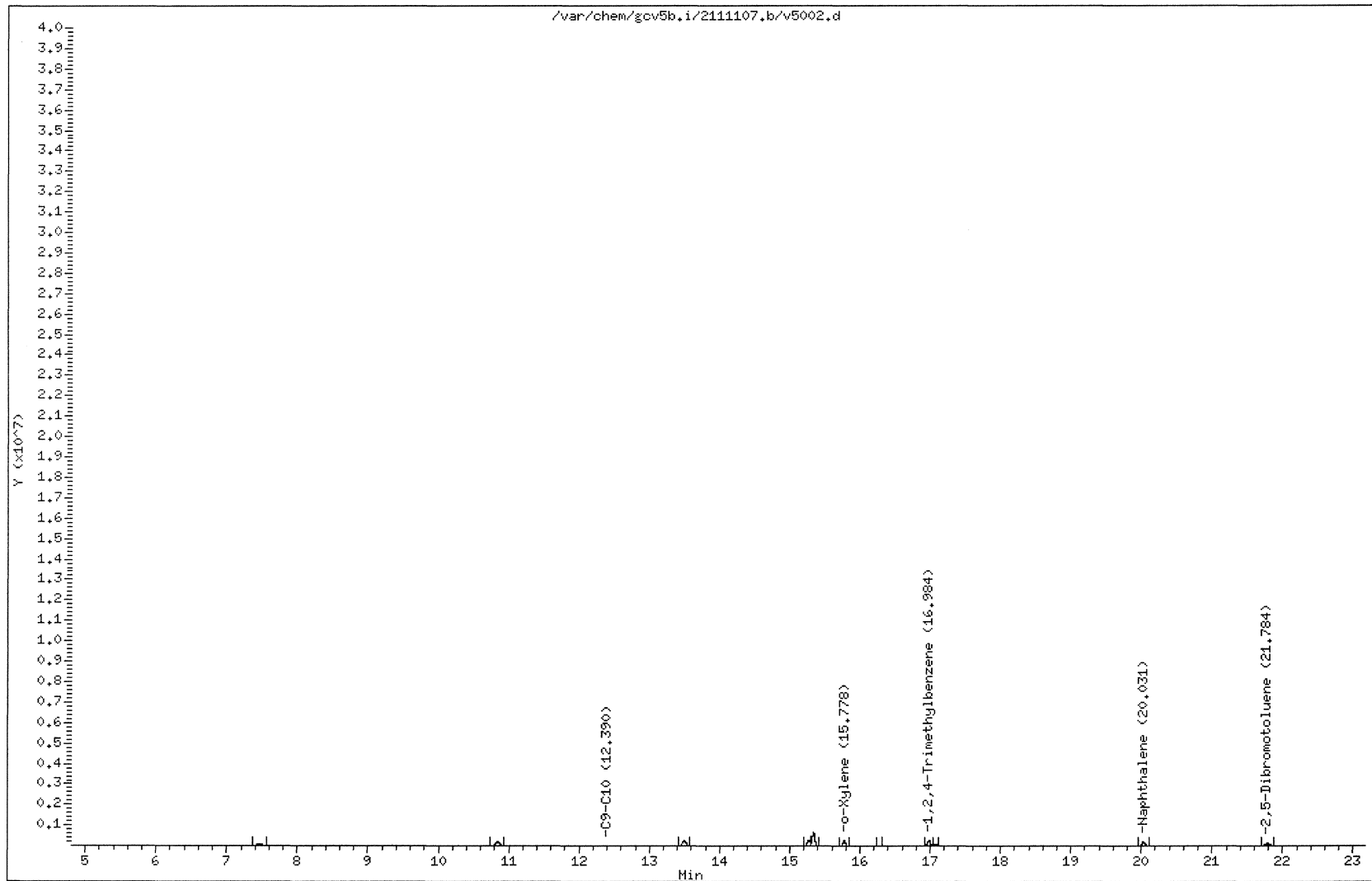
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
6 o-Xylene	15.778	15.777	0.001	709878	52.3134	52.3
7 1,2,4-Trimethylbenzene	16.984	16.983	0.001	655039	54.4552	54.4
M 9 C9-C10				655039	54.4552	54.4
8 Naphthalene	20.031	20.028	0.003	556525	54.6350	54.6
\$ 10 2,5-Dibromotoluene	21.784	21.781	0.003	365094	52.2155	52.2

Data File: /var/chem/gcv5b.i/2111107.b/v5002.d
Date : 07-NOV-2011 11:51
Client ID: 1003188
Sample Info: 1003188
Volume Injected (uL): 1.0
Column phase: DB-624-30

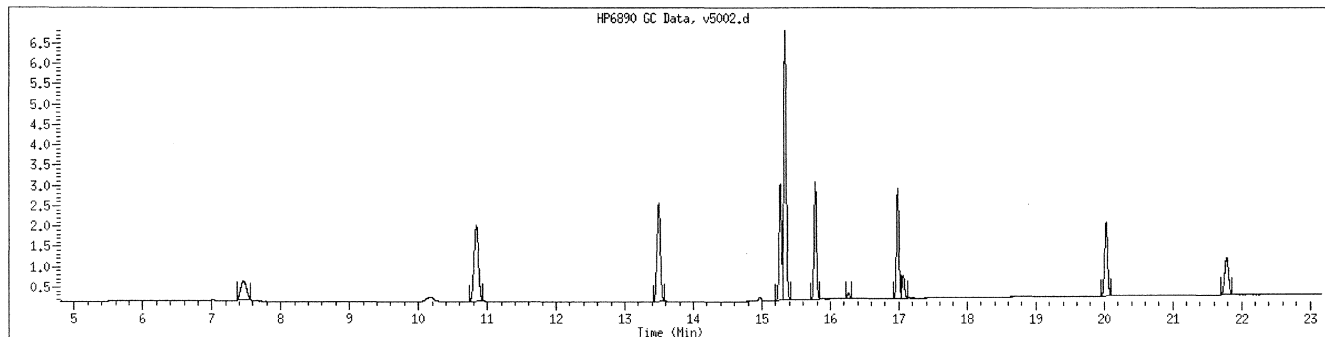
Instrument: gcv5b.i
Operator: JAR
Column diameter: 0.53



Report Date: 11/08/2011 13:41

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1003188 SampleType : LCS
Injection Date: 11/07/2011 11:51 Instrument : gcv5b.i
Operator : JAR
Sample Info : 1003188
Misc Info : lcs6/12/4
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5002.d
Lab Smp Id: lcs6/12/4
Inj Date : 07-NOV-2011 11:51
Operator : JAR
Smp Info : lcs6/12/4
Misc Info :
Comment :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVP.H.m
Meth Date : 07-Nov-2011 10:29 jar
Cal Date : 05-NOV-2011 01:52
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Processing Host: org.gcal.com
Inst ID: gcv5a.i
Quant Type: ESTD
Cal File: v5011.d
QC Sample: LCS
Compound Sublist: aliphatic1+surr.sub

Concentration Formula: $Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable$

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds					CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
M 2 C5-C8				1496403	152.268	152
1 n-Pentane	5.269	5.263	0.006	446597	49.6209	49.6
3 2-Methyl Pentane	6.485	6.480	0.005	522005	50.0112	50.0
6 Isooctane	9.564	9.557	0.007	527801	52.6359	52.6 (M1)
13 n-Decane	15.962	15.959	0.003	281892	50.7463	50.7
15 n-Butylcyclohexane	16.744	16.742	0.002	324847	54.5185	54.5
16 Naphthalene	19.621	19.617	0.004	473106	53.4382	53.4
M 5 C9-C12				606739	105.265	105
\$ 17 2,5-Dibromotoluene	21.296	21.294	0.002	146985	49.1646	49.2

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Date : 07-NOV-2011 11:51

Client ID:

Instrument: gcv5a.i

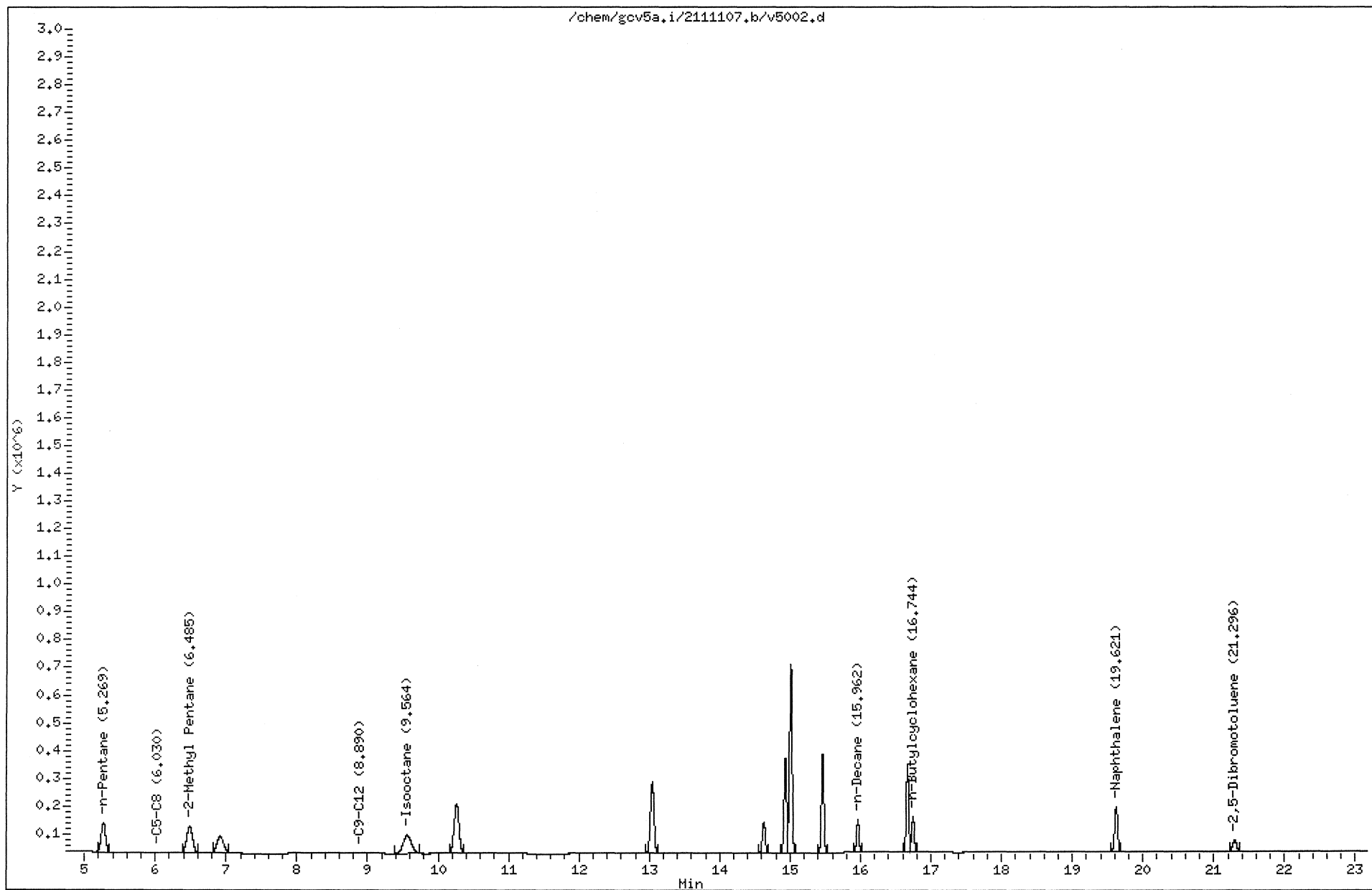
Sample Info: 1cs6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

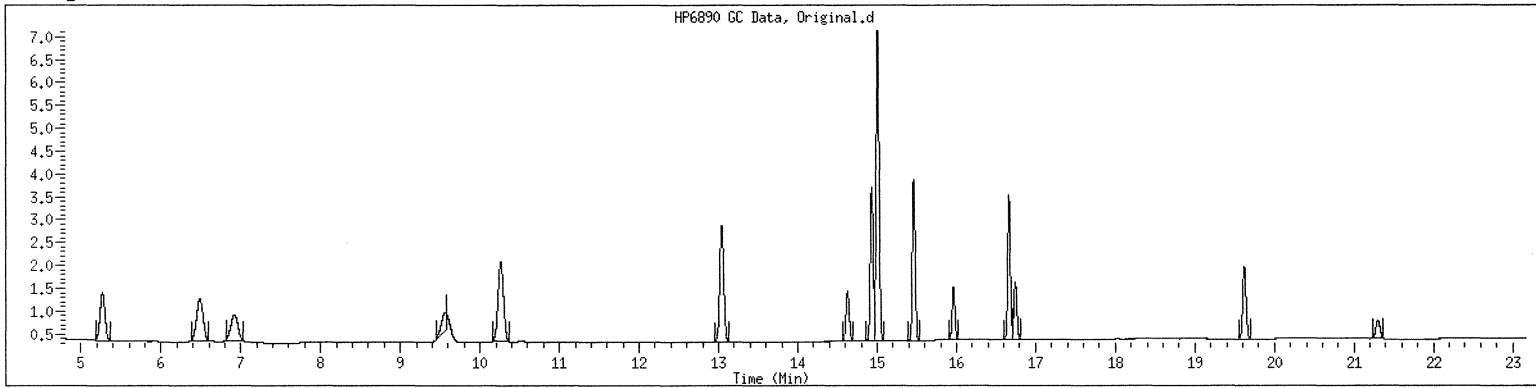
Column diameter: 0.53



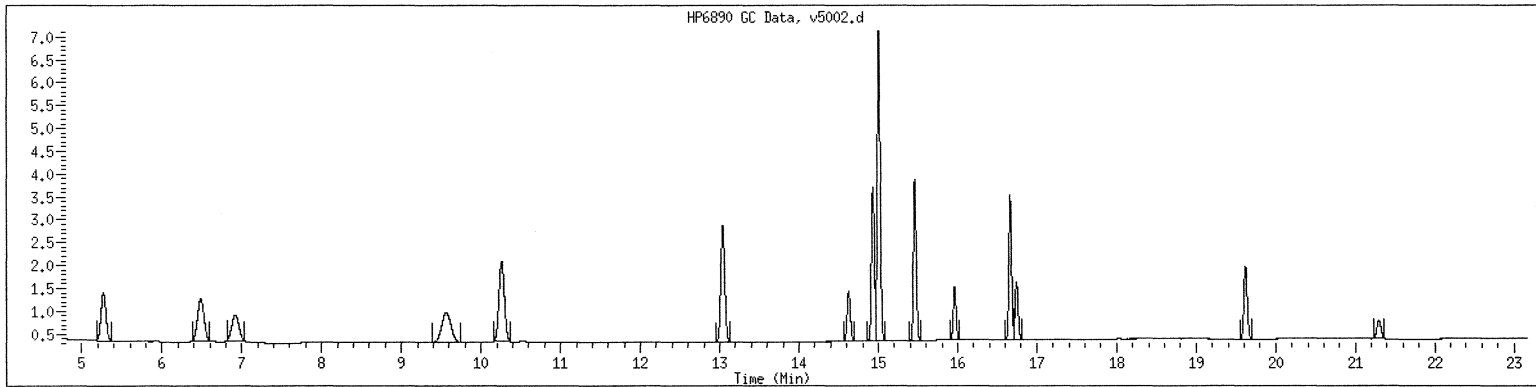
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : lcs6/12/4 SampleType : LCS
Injection Date: 11/07/2011 11:51 Instrument : gcv5a.i
Operator : JAR
Sample Info : lcs6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: ES047 MS
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211110257
 Sample wt/vol: 5 Units: mL Lab Sample ID: 21110312403
 Level: (low/med) _____ Date Collected: 10/24/11 Time: 0830
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 10/29/11
 GC Column: _____ ID: _____ (mm) Date Extracted: _____
 Concentrated Extract Volume: 5000 (µL) Date Analyzed: 11/07/11 Time: 1925
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 10 Analyst: JAR
 Injection Volume: 1 (µL) Prep Method: _____
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSVPH
 Prep Batch: _____ Analytical Batch: 468512 Sulfur Cleanup: (Y/N) N Instrument ID: GCV5B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111107/v5014

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCV-00-4	C5-C8 Aliphatic	1440		33.1	150	300
GCV-00-5	C9-C12 Aliphatic	1760		32.0	100	200
GCV-00-6	C9-C10 Aromatic	739		12.4	50.0	100

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5014.d

Lab Smp Id: 21110312403

Client Smp ID: 21110312403

Inj Date : 07-NOV-2011 19:25

Operator : JAR

Inst ID: gcv5b.i

Smp Info : 21110312403*10

Misc Info :

Comment :

Method : /var/chem/gcv5b.i/2111107.b/PIDMVP.H.m

Meth Date : 08-Nov-2011 13:36 jar

Quant Type: ESTD

Cal Date : 05-NOV-2011 01:52

Cal File: v5011.d

Als bottle: 1

QC Sample: MS

Dil Factor: 10.00000

Integrator: Falcon

Compound Sublist: aromatic.sub

Target Version: 3.50

Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

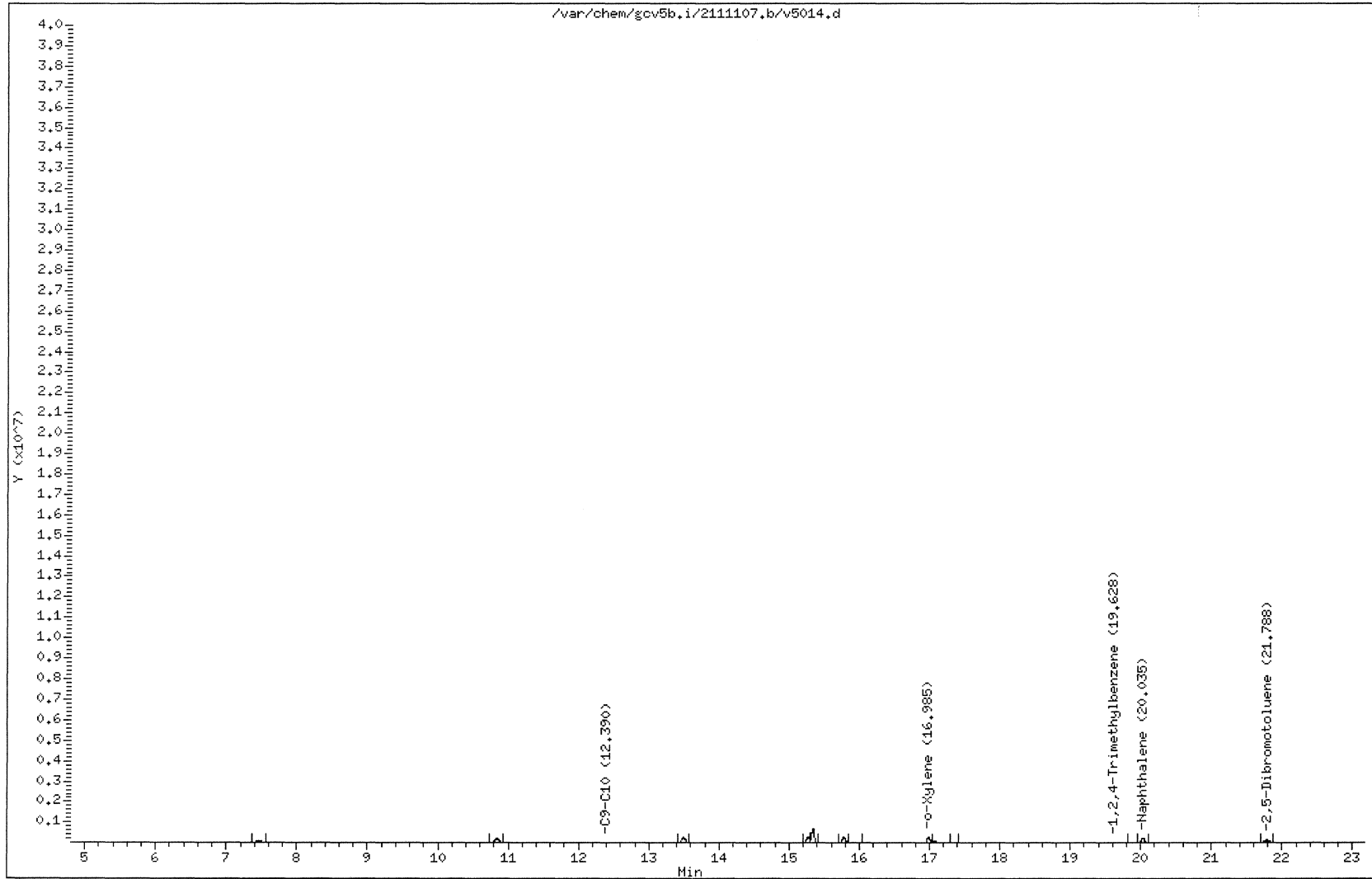
Compounds					CONCENTRATIONS	
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
6 o-Xylene	16.985	15.777	1.208	722379	53.2347	532 (M1)
7 1,2,4-Trimethylbenzene	19.628	16.983	2.645	166981	13.8816	139 (RM1)
M 9 C9-C10				889360	73.9349	739 (R)
8 Naphthalene	20.035	20.028	0.007	553290	54.3174	543
S 10 2,5-Dibromotoluene	21.788	21.781	0.007	371390	53.1159	531

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M1- Compound response manually integrated because
Target system did not integrate.

Data File: /var/chem/gcv5b.i/2111107.b/v5014.d
Date : 07-NOV-2011 19:25
Client ID: 21110312403
Sample Info: 21110312403*10
Volume Injected (uL): 1.0
Column phase: DB-624-30

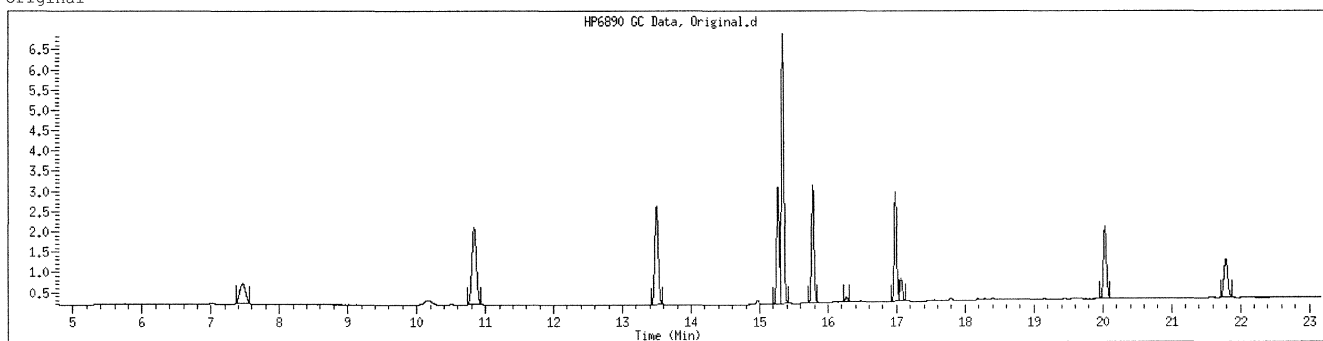
Instrument: gcv5b.i
Operator: JAR
Column diameter: 0.53



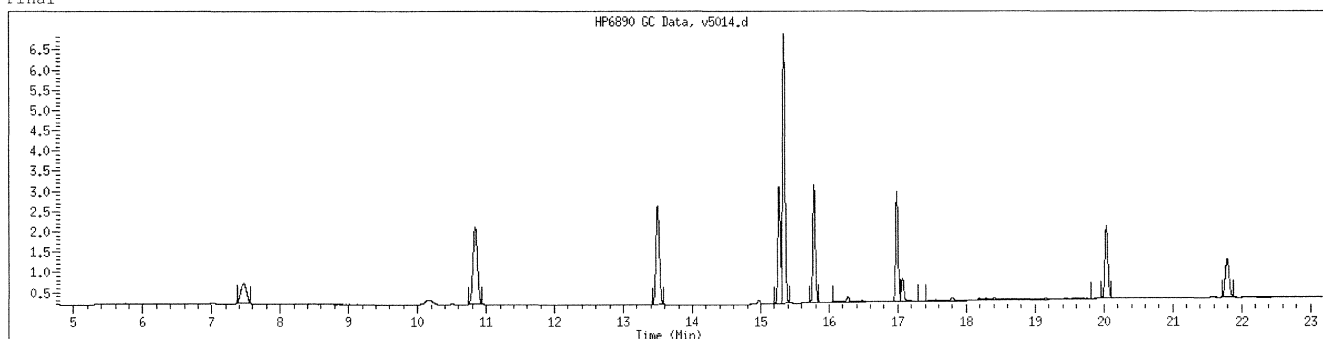
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312403 SampleType : MS
Injection Date: 11/07/2011 19:25 Instrument : gcv5b.i
Operator : JAR
Sample Info : 21110312403*10
Misc Info :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 10.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic

Original



Final



GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5014.d
 Lab Smp Id: 21110312403 Client Smp ID: 21110312403
 Inj Date : 07-NOV-2011 19:25
 Operator : JAR Inst ID: gcv5a.i
 Smp Info : 21110312403*10
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
 Meth Date : 08-Nov-2011 10:11 jar Quant Type: ESTD
 Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d
 Als bottle: 1
 Dil Factor: 10.00000
 Integrator: Falcon Compound Sublist: aliphatic1+surr.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
M 2 C5-C8				1417508	144.336	1440
1 n-Pentane	5.266	5.266	0.000	437501	48.6103	486
3 2-Methyl Pentane	6.482	6.482	0.000	512046	49.0571	490
6 Isooctane	9.562	9.562	0.000	467961	46.6682	467
13 n-Decane	15.963	15.963	0.000	303160	54.5751	546 (M1)
15 n-Butylcyclohexane	16.746	16.746	0.000	726489	121.925	1220 (AM1)
16 Naphthalene	19.623	19.623	0.000	471380	53.2433	532
M 5 C9-C12				1029649	176.500	1760
\$ 17 2,5-Dibromotoluene	21.300	21.301	-0.001	151837	50.7875	508

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M1- Compound response manually integrated because Target system did not integrate.

Date : 07-NOV-2011 19:25

Client ID: 21110312403

Instrument: gcv5a.i

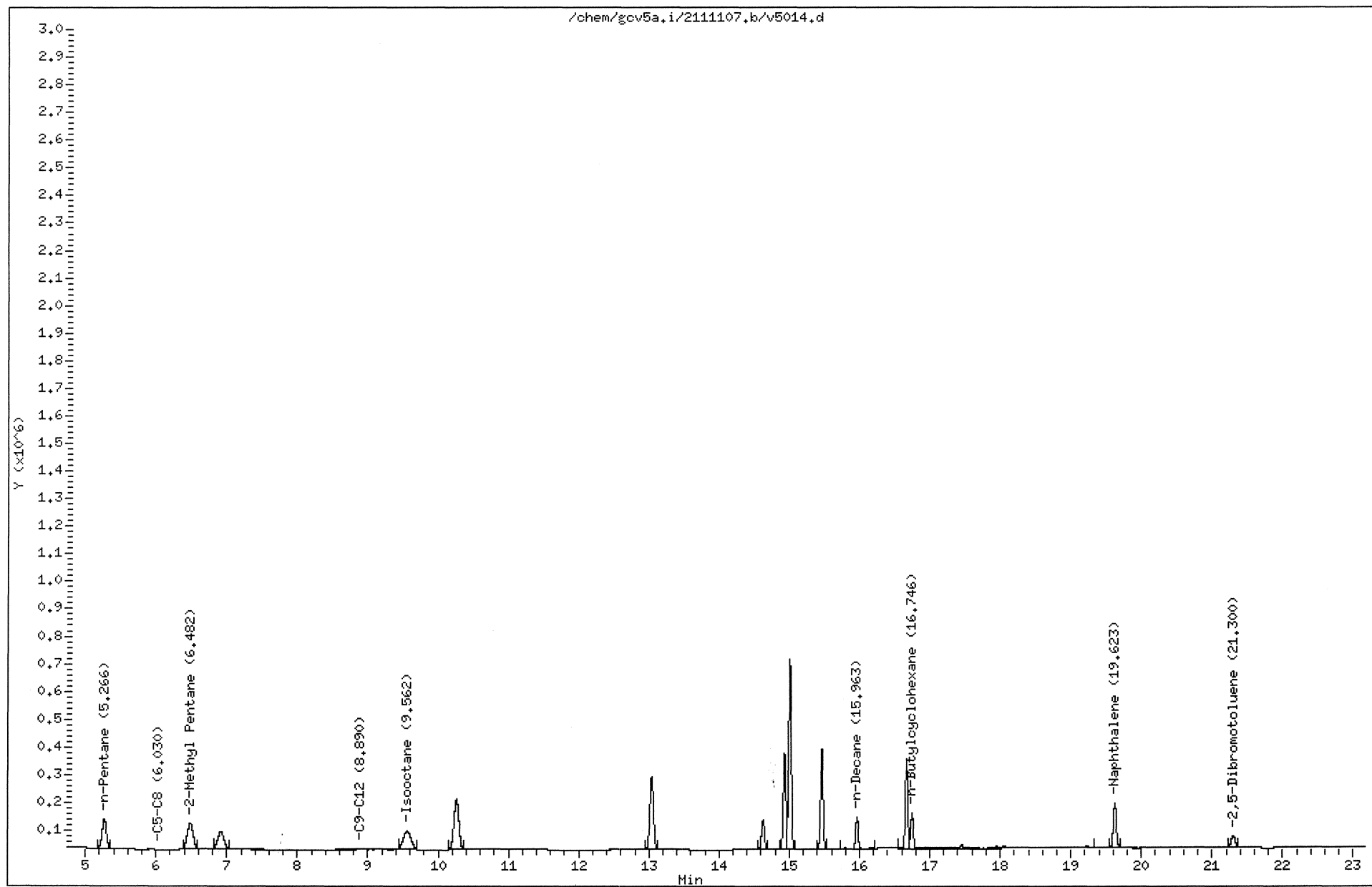
Sample Info: 21110312403*10

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

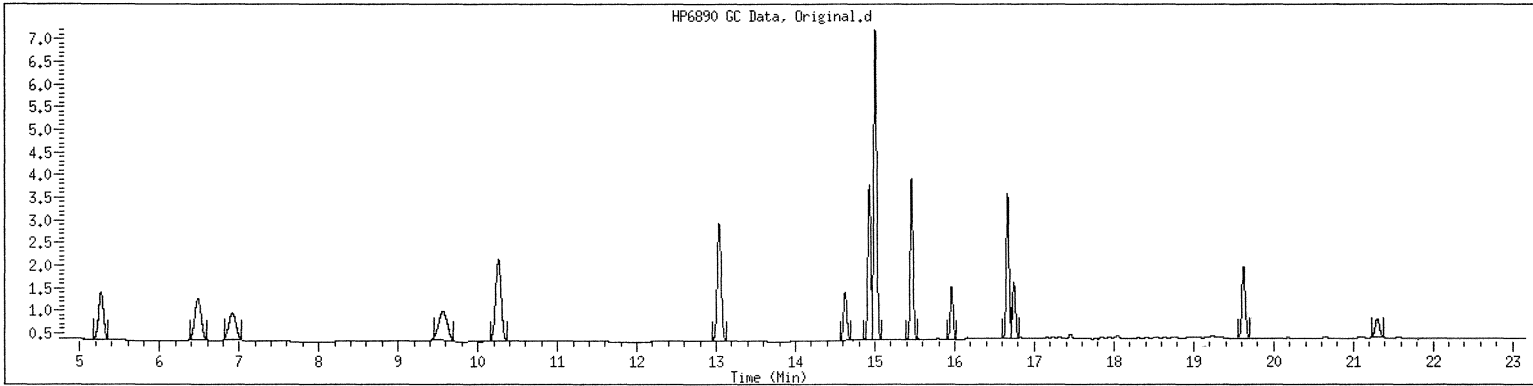


211110257 352

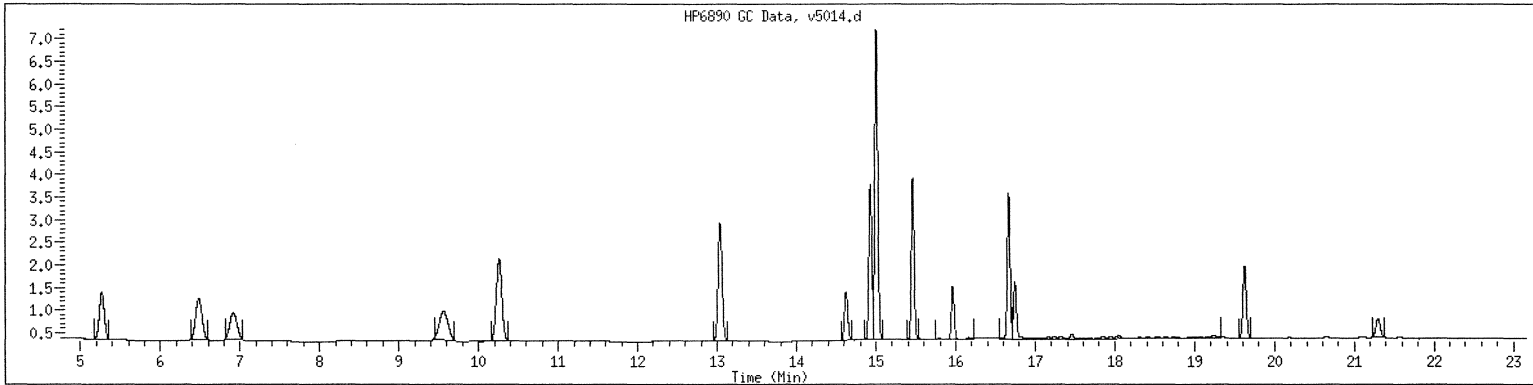
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312403 SampleType : SAMPLE
Injection Date: 11/07/2011 19:25 Instrument : gcv5a.i
Operator : JAR
Sample Info : 21110312403*10
Misc Info :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Dilution : 10.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: ES053 MS
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211110257
 Sample wt/vol: 5 Units: mL Lab Sample ID: 21110312409
 Level: (low/med) _____ Date Collected: 10/26/11 Time: 1043
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 10/29/11
 GC Column: _____ ID: _____ (mm) Date Extracted: _____
 Concentrated Extract Volume: 5000 (µL) Date Analyzed: 11/08/11 Time: 1152
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: JAR
 Injection Volume: 1 (µL) Prep Method: _____
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSVPH
 Prep Batch: _____ Analytical Batch: 468512 Sulfur Cleanup: (Y/N) N Instrument ID: GCV5B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111107/v5029

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCV-00-4	C5-C8 Aliphatic	156		3.31	15.0	30.0
GCV-00-5	C9-C12 Aliphatic	112		3.20	10.0	20.0
GCV-00-6	C9-C10 Aromatic	61.2		1.24	5.00	10.0

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5029.d
Lab Smp Id: 21110312409 Client Smp ID: 21110312409
Inj Date : 08-NOV-2011 11:52
Operator : JAR Inst ID: gcv5b.i
Smp Info : 21110312409
Misc Info :
Comment :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVP.H.m
Meth Date : 08-Nov-2011 13:39 jar Quant Type: ESTD
Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d
Als bottle: 1 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: aromatic.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
6 o-Xylene	15.782	15.777	0.005	798418	58.8383	58.8
7 1,2,4-Trimethylbenzene	16.989	16.983	0.006	736749	61.2479	61.2
M 9 C9-C10				736749	61.2479	61.2
8 Naphthalene	20.042	20.028	0.014	599685	58.8721	58.9
\$ 10 2,5-Dibromotoluene	21.797	21.781	0.016	421952	60.3473	60.3

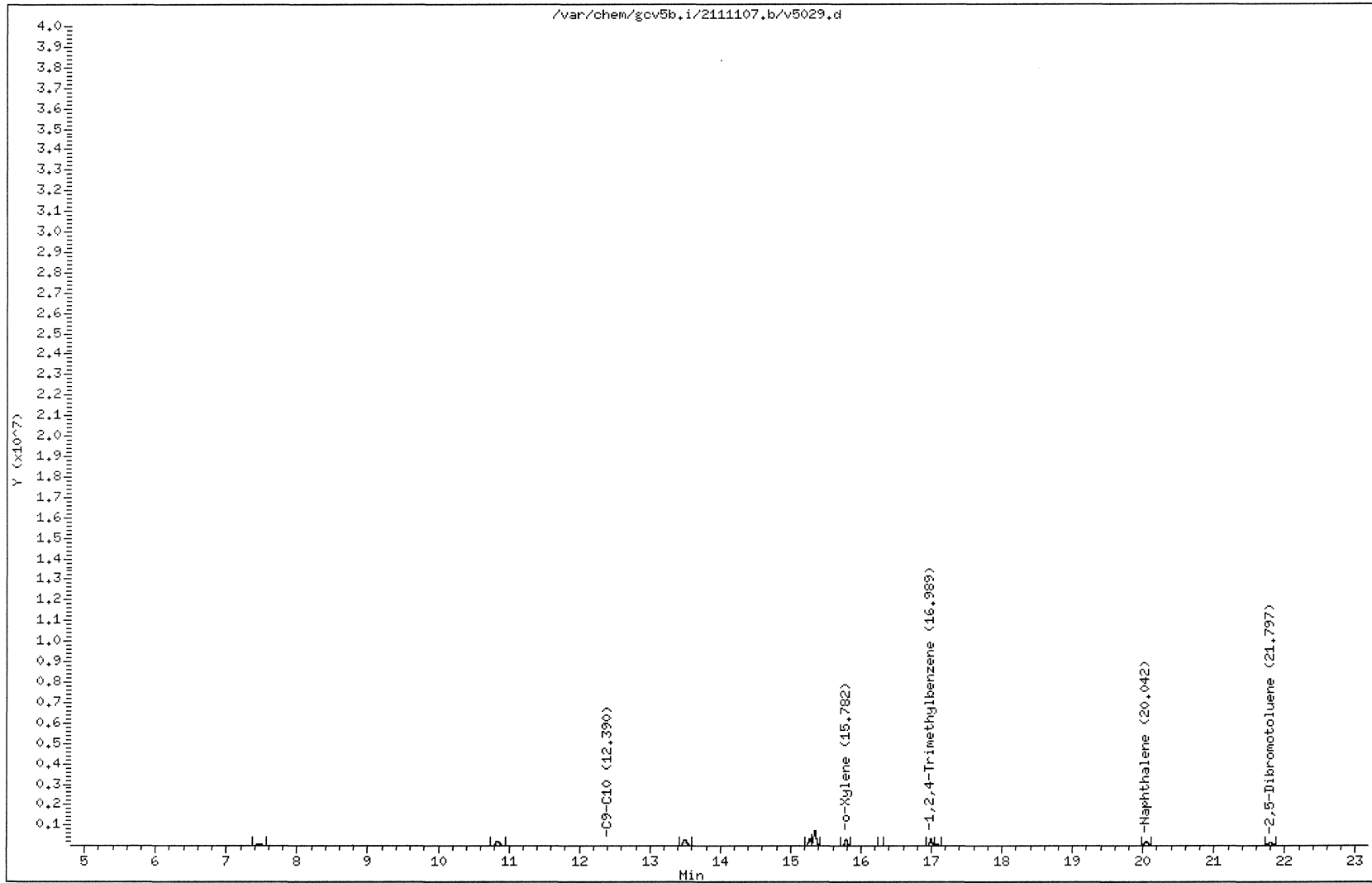
Data File: /var/chem/gcv5b.i/2111107.b/v5029.d
Date : 08-NOV-2011 11:52
Client ID: 21110312409
Sample Info: 21110312409
Volume Injected (uL): 1.0
Column phase: DB-624-30

Page 1

Instrument: gcv5b.i

Operator: JAR

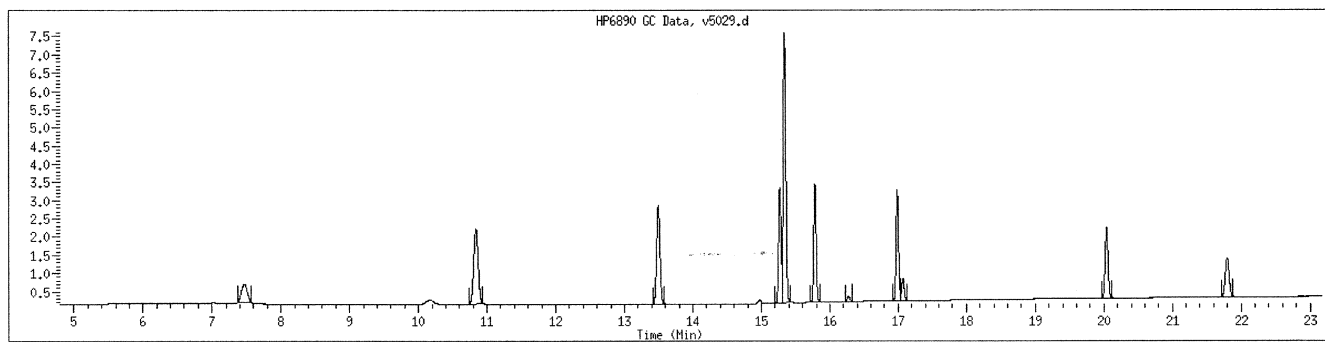
Column diameter: 0.53



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312409 SampleType : MS
Injection Date: 11/08/2011 11:52 Instrument : gcv5b.i
Operator : JAR
Sample Info : 21110312409
Misc Info :
Method : /var/chem/gcv5b.i/2111107.b/PIDMPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5029.d
 Lab Smp Id: 21110312409 Client Smp ID: 21110312409
 Inj Date : 08-NOV-2011 11:52
 Operator : JAR Inst ID: gcv5a.i
 Smp Info : 21110312409
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
 Meth Date : 08-Nov-2011 13:07 jar Quant Type: ESTD
 Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d
 Als bottle: 1 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: aliphatic1+surr.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
M 2 C5-C8				1529527	155.685	156
1 n-Pentane	5.267	5.269	-0.002	469035	52.1140	52.1
3 2-Methyl Pentane	6.485	6.485	0.000	558084	53.4679	53.5
6 Isooctane	9.566	9.563	0.003	502407	50.1034	50.1
13 n-Decane	15.967	15.961	0.006	298413	53.7206	53.7
15 n-Butylcyclohexane	16.751	16.743	0.008	349751	58.6982	58.7
16 Naphthalene	19.632	19.618	0.014	511785	57.8071	57.8
M 5 C9-C12				648165	112.419	112
\$ 17 2,5-Dibromotoluene	21.309	21.295	0.014	175784	58.7976	58.8

Date : 08-NOV-2011 11:52

Client ID: 21110312409

Instrument: gcv5a.i

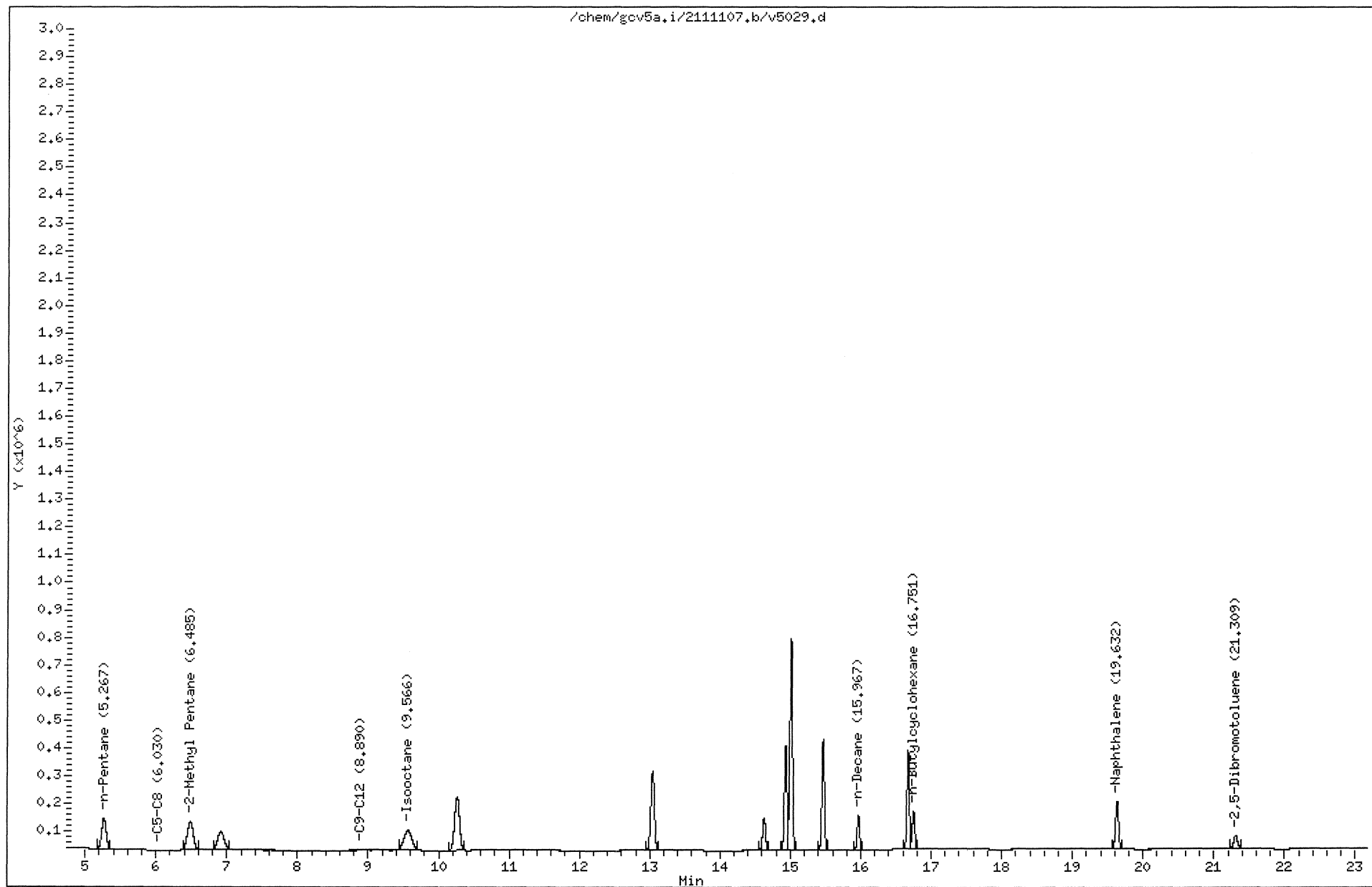
Sample Info: 21110312409

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

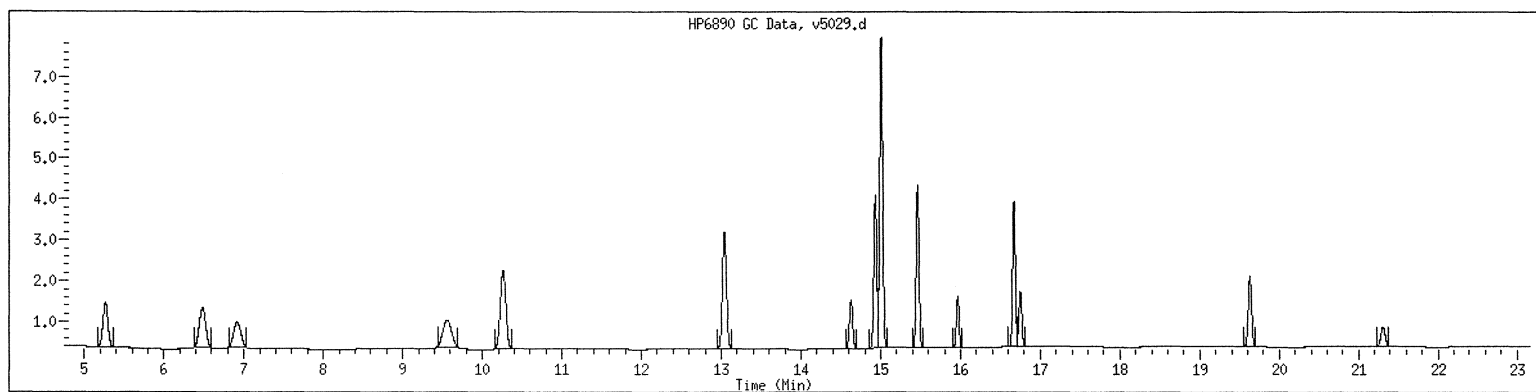
Column diameter: 0.53



211110257 359

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312409 SampleType : MS
Injection Date: 11/08/2011 11:52 Instrument : gcv5a.i
Operator : JAR
Sample Info : 21110312409
Misc Info :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr



NO MANUAL INTEGRATIONS

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: ES047 MSD
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211110257
 Sample wt/vol: 5 Units: mL Lab Sample ID: 21110312404
 Level: (low/med) _____ Date Collected: 10/24/11 Time: 0830
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 10/29/11
 GC Column: _____ ID: _____ (mm) Date Extracted: _____
 Concentrated Extract Volume: 5000 (µL) Date Analyzed: 11/07/11 Time: 1955
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 10 Analyst: JAR
 Injection Volume: 1 (µL) Prep Method: _____
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSVPH
 Prep Batch: _____ Analytical Batch: 468512 Sulfur Cleanup: (Y/N) N Instrument ID: GCV5B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111107/v5015

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCV-00-4	C5-C8 Aliphatic	1440		33.1	150	300
GCV-00-5	C9-C12 Aliphatic	1560		32.0	100	200
GCV-00-6	C9-C10 Aromatic	688		12.4	50.0	100

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5015.d
 Lab Smp Id: 21110312404 Client Smp ID: 21110312404
 Inj Date : 07-NOV-2011 19:55
 Operator : JAR Inst ID: gcv5b.i
 Smp Info : 21110312404*10
 Misc Info :
 Comment :
 Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
 Meth Date : 08-Nov-2011 13:36 jar Quant Type: ESTD
 Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d
 Als bottle: 1 QC Sample: MSD
 Dil Factor: 10.00000
 Integrator: Falcon Compound Sublist: aromatic.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
6 o-Xylene	16.983	15.777	1.206	671639	49.4955	495 (M1)
7 1,2,4-Trimethylbenzene	17.065	16.983	0.082	156074	12.9749	130 (RM1)
M 9 C9-C10				827713	68.8100	688 (R)
8 Naphthalene	20.031	20.028	0.003	538473	52.8628	529
S 10 2,5-Dibromotoluene	21.784	21.781	0.003	363301	51.9591	520

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
 M1- Compound response manually integrated because
 Target system did not integrate.

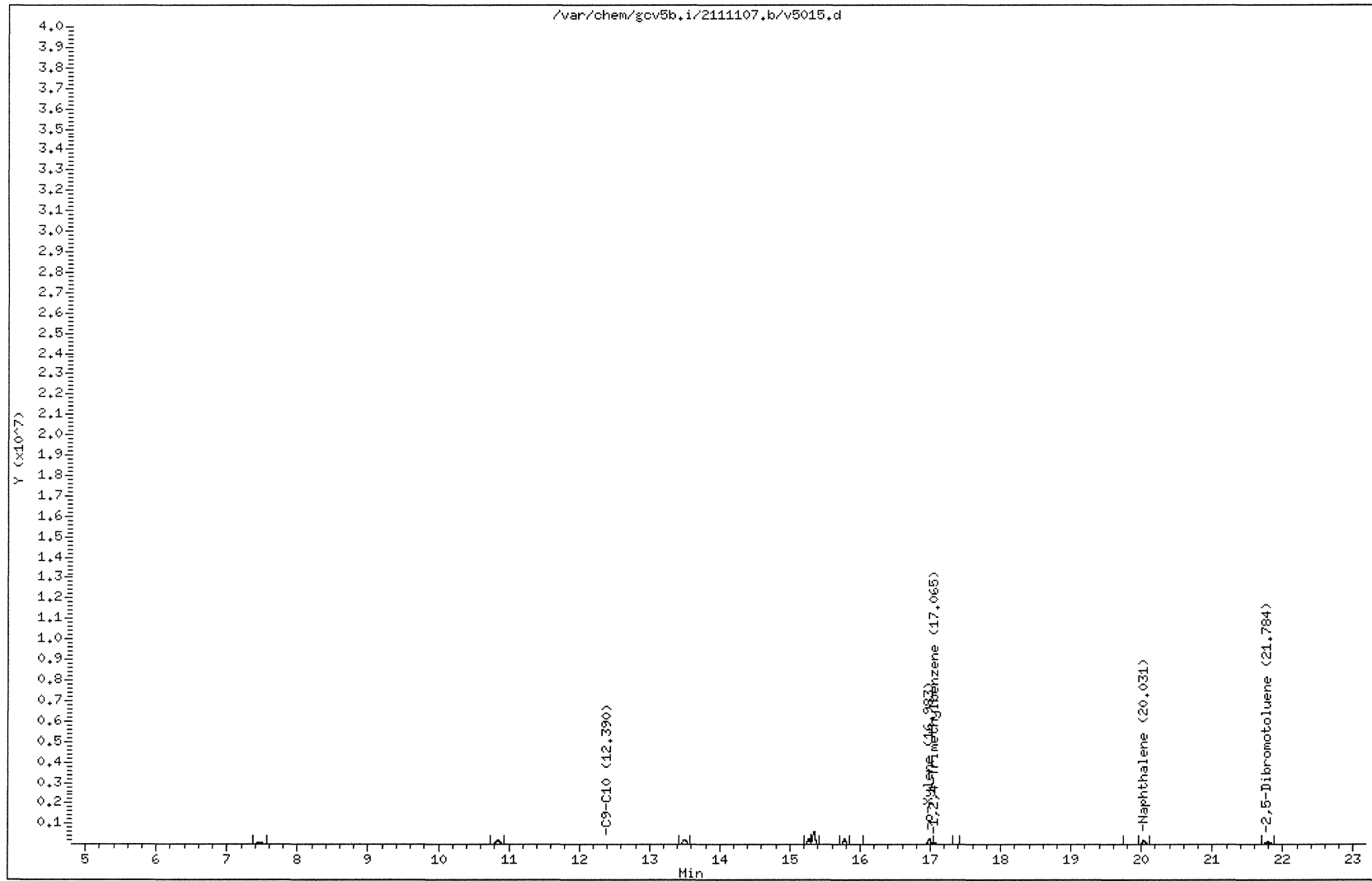
Data File: /var/chem/gcv5b.i/2111107.b/v5015.d
Date : 07-NOV-2011 19:55
Client ID: 21110312404
Sample Info: 21110312404*10
Volume Injected (uL): 1.0
Column phase: DB-624-30

Page 1

Instrument: gcv5b.i

Operator: JAR

Column diameter: 0.53

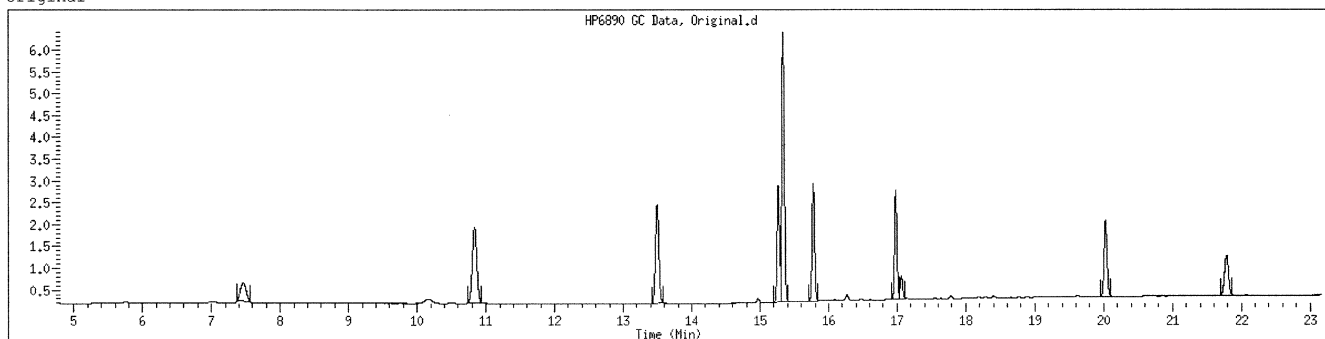


211110257 363

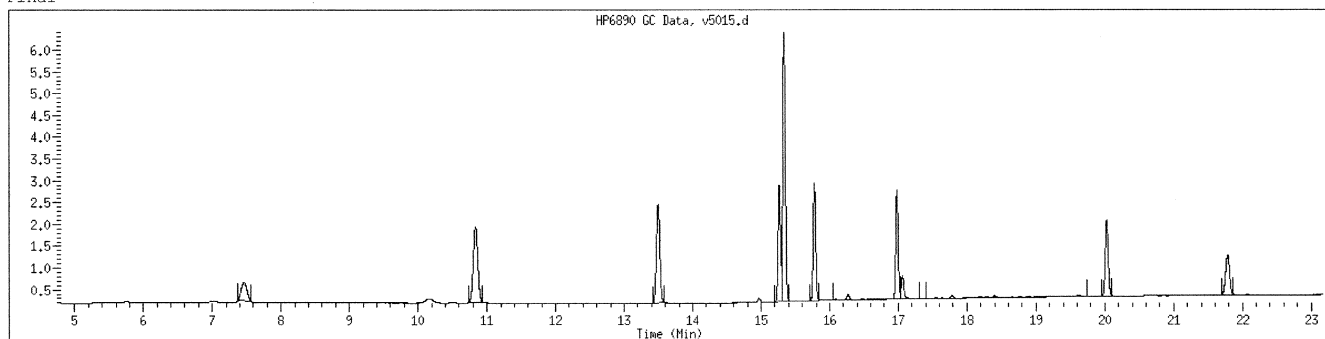
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312404 SampleType : MSD
Injection Date: 11/07/2011 19:55 Instrument : gcv5b.i
Operator : JAR
Sample Info : 21110312404*10
Misc Info :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 10.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic

Original



Final



GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5015.d
 Lab Smp Id: 21110312404 Client Smp ID: 21110312404
 Inj Date : 07-NOV-2011 19:55
 Operator : JAR Inst ID: gcv5a.i
 Smp Info : 21110312404*10
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
 Meth Date : 08-Nov-2011 10:11 jar Quant Type: ESTD
 Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d
 Als bottle: 1
 Dil Factor: 10.00000
 Integrator: Falcon Compound Sublist: aliphatic1+surr.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	10.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
M 2 C5-C8				1418180	144.116	1440
1 n-Pentane	5.267	5.266	0.001	413778	45.9745	460 (M1)
3 2-Methyl Pentane	6.483	6.482	0.001	516302	49.4648	495 (M1)
6 Isooctane	9.561	9.562	-0.001	488099	48.6766	487 (M1)
13 n-Decane	15.961	15.963	-0.002	288918	52.0113	520 (M1)
15 n-Butylcyclohexane	16.744	16.746	-0.002	616692	103.498	1030 (AM1)
16 Naphthalene	19.620	19.623	-0.003	459623	51.9153	519
M 5 C9-C12				905611	155.510	1560
\$ 17 2,5-Dibromotoluene	21.296	21.301	-0.005	147772	49.4278	494

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M1- Compound response manually integrated because Target system did not integrate.

Date : 07-NOV-2011 19:55

Client ID: 21110312404

Instrument: gcv5a.i

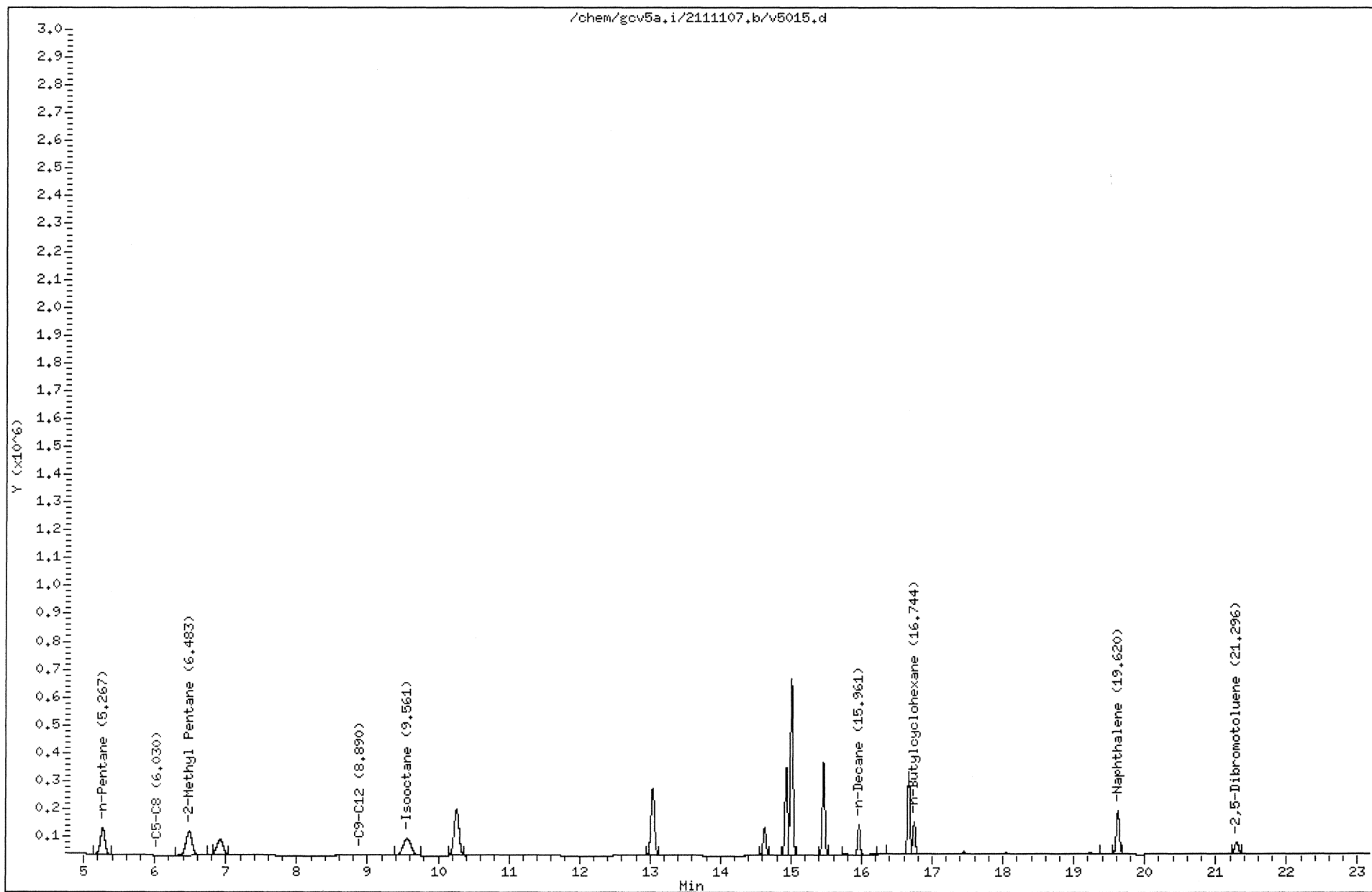
Sample Info: 21110312404*10

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

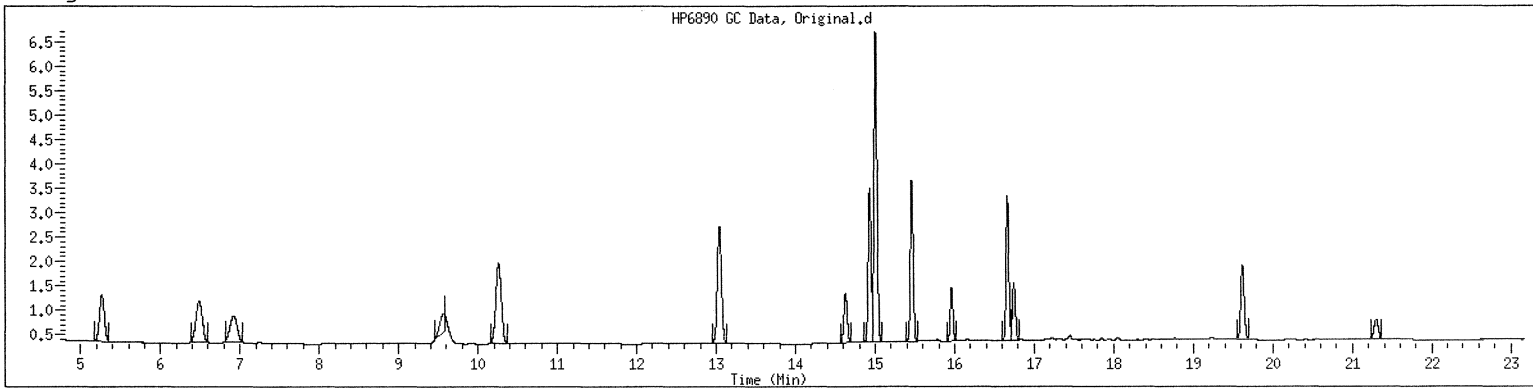
Column diameter: 0.53



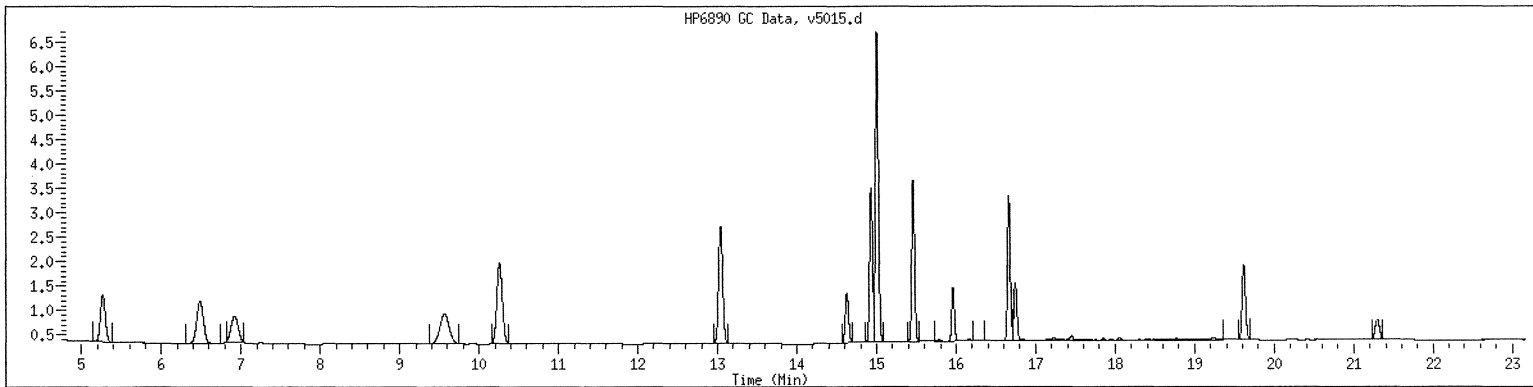
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312404 SampleType : SAMPLE
Injection Date: 11/07/2011 19:55 Instrument : gcv5a.i
Operator : JAR
Sample Info : 21110312404*10
Misc Info :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Dilution : 10.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: ES053 MSD
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211110257
 Sample wt/vol: 5 Units: mL Lab Sample ID: 21110312410
 Level: (low/med) _____ Date Collected: 10/26/11 Time: 1043
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 10/29/11
 GC Column: _____ ID: _____ (mm) Date Extracted: _____
 Concentrated Extract Volume: 5000 (µL) Date Analyzed: 11/08/11 Time: 1222
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: JAR
 Injection Volume: 1 (µL) Prep Method: _____
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSVPH
 Prep Batch: _____ Analytical Batch: 468512 Sulfur Cleanup: (Y/N) N Instrument ID: GCV5B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111107/v5030

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCV-00-4	C5-C8 Aliphatic	170		3.31	15.0	30.0
GCV-00-5	C9-C12 Aliphatic	117		3.20	10.0	20.0
GCV-00-6	C9-C10 Aromatic	61.0		1.24	5.00	10.0

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5030.d
 Lab Smp Id: 21110312410 Client Smp ID: 21110312410
 Inj Date : 08-NOV-2011 12:22
 Operator : JAR Inst ID: gcv5b.i
 Smp Info : 21110312410
 Misc Info :
 Comment :
 Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
 Meth Date : 08-Nov-2011 13:39 jar Quant Type: ESTD
 Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d
 Als bottle: 1 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: aromatic.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

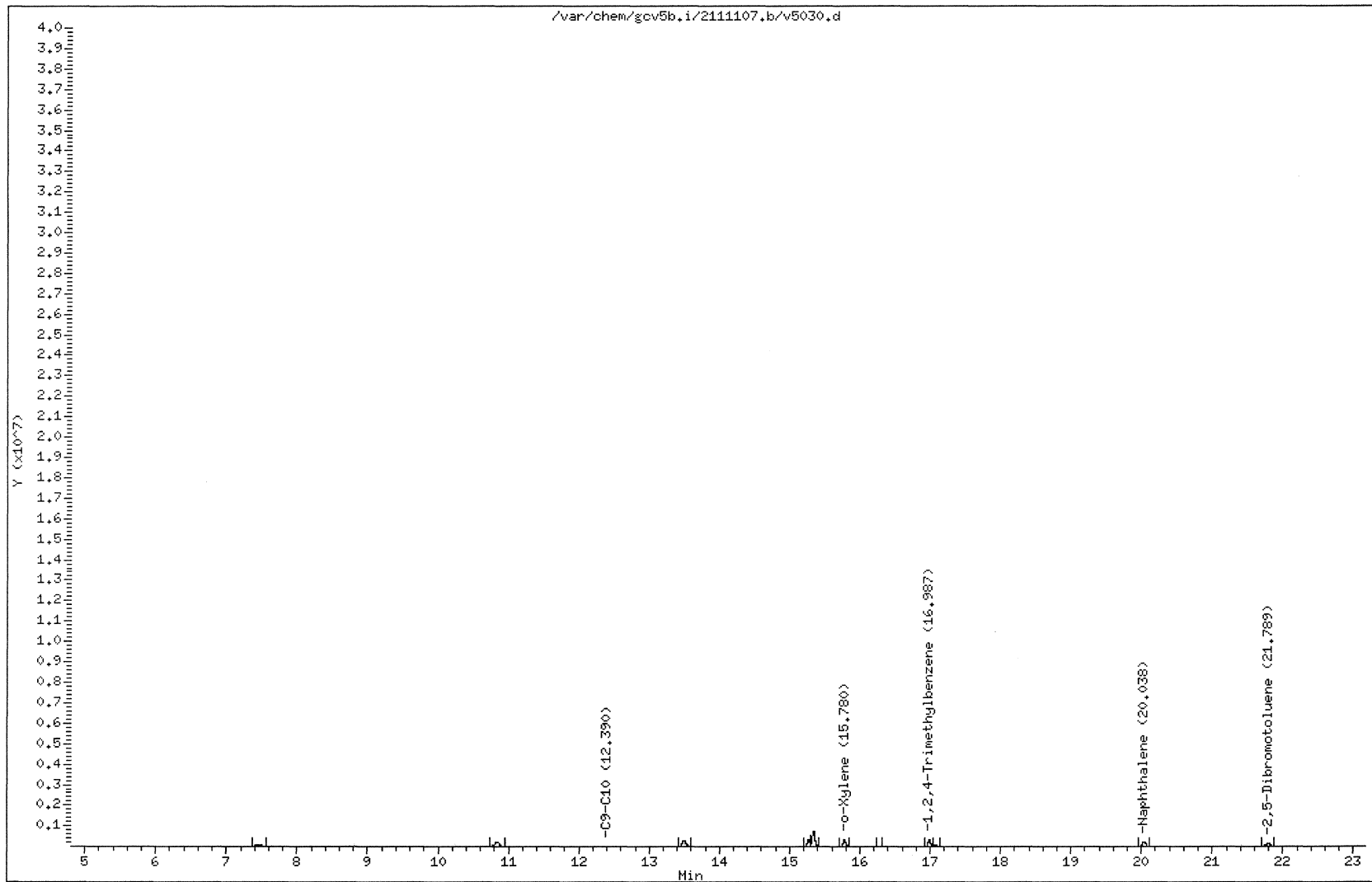
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
6 o-Xylene	15.780	15.777	0.003	812881	59.9041	59.9
7 1,2,4-Trimethylbenzene	16.987	16.983	0.004	745009	61.9346	61.9
M 9 C9-C10				745009	61.9346	61.9
8 Naphthalene	20.038	20.028	0.010	621502	61.0139	61.0
\$ 10 2,5-Dibromotoluene	21.789	21.781	0.008	410206	58.6674	58.7

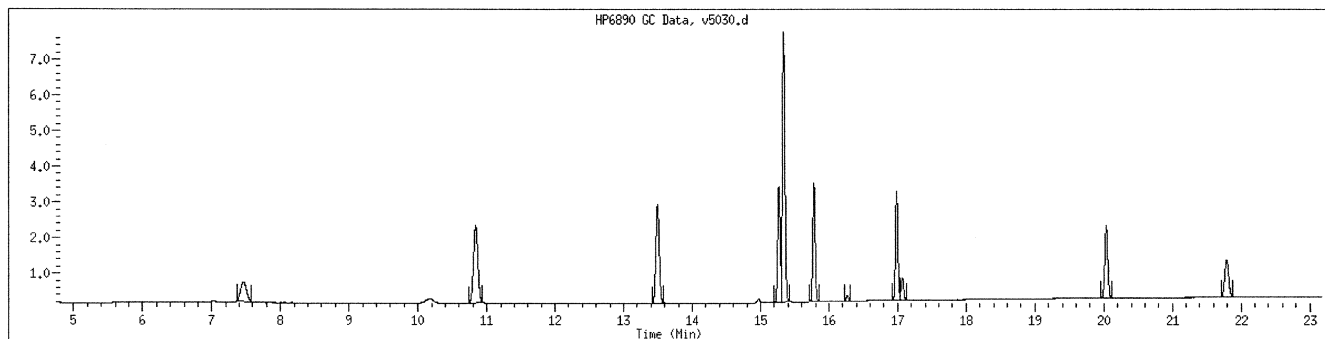
Data File: /var/chem/gcv5b.i/2111107.b/v5030.d
Date : 08-NOV-2011 12:22
Client ID: 21110312410
Sample Info: 21110312410
Volume Injected (uL): 1.0
Column phase: DB-624-30

Instrument: gcv5b.i
Operator: JAR
Column diameter: 0.53



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312410 SampleType : MSD
Injection Date: 11/08/2011 12:22 Instrument : gcv5b.i
Operator : JAR
Sample Info : 21110312410
Misc Info :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5030.d
 Lab Smp Id: 21110312410 Client Smp ID: 21110312410
 Inj Date : 08-NOV-2011 12:22
 Operator : JAR Inst ID: gcv5a.i
 Smp Info : 21110312410
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111107.b/FIDMVP.H.m
 Meth Date : 08-Nov-2011 13:21 jar Quant Type: ESTD
 Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d
 Als bottle: 1 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: aliphatic1+surr.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
M 2 C5-C8				1674195	170.353	170
1 n-Pentane	5.266	5.266	0.000	501104	55.6771	55.7
3 2-Methyl Pentane	6.484	6.483	0.001	589852	56.5113	56.5
6 Isooctane	9.560	9.561	-0.001	583239	58.1645	58.2 (M1)
13 n-Decane	15.964	15.965	-0.001	316713	57.0148	57.0
15 n-Butylcyclohexane	16.748	16.748	0.000	356775	59.8769	59.9
16 Naphthalene	19.627	19.628	-0.001	531738	60.0608	60.1
M 5 C9-C12				673488	116.892	117
S 17 2,5-Dibromotoluene	21.304	21.306	-0.002	170066	56.8849	56.9

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Date : 08-NOV-2011 12:22

Client ID: 21110312410

Instrument: gcv5a.i

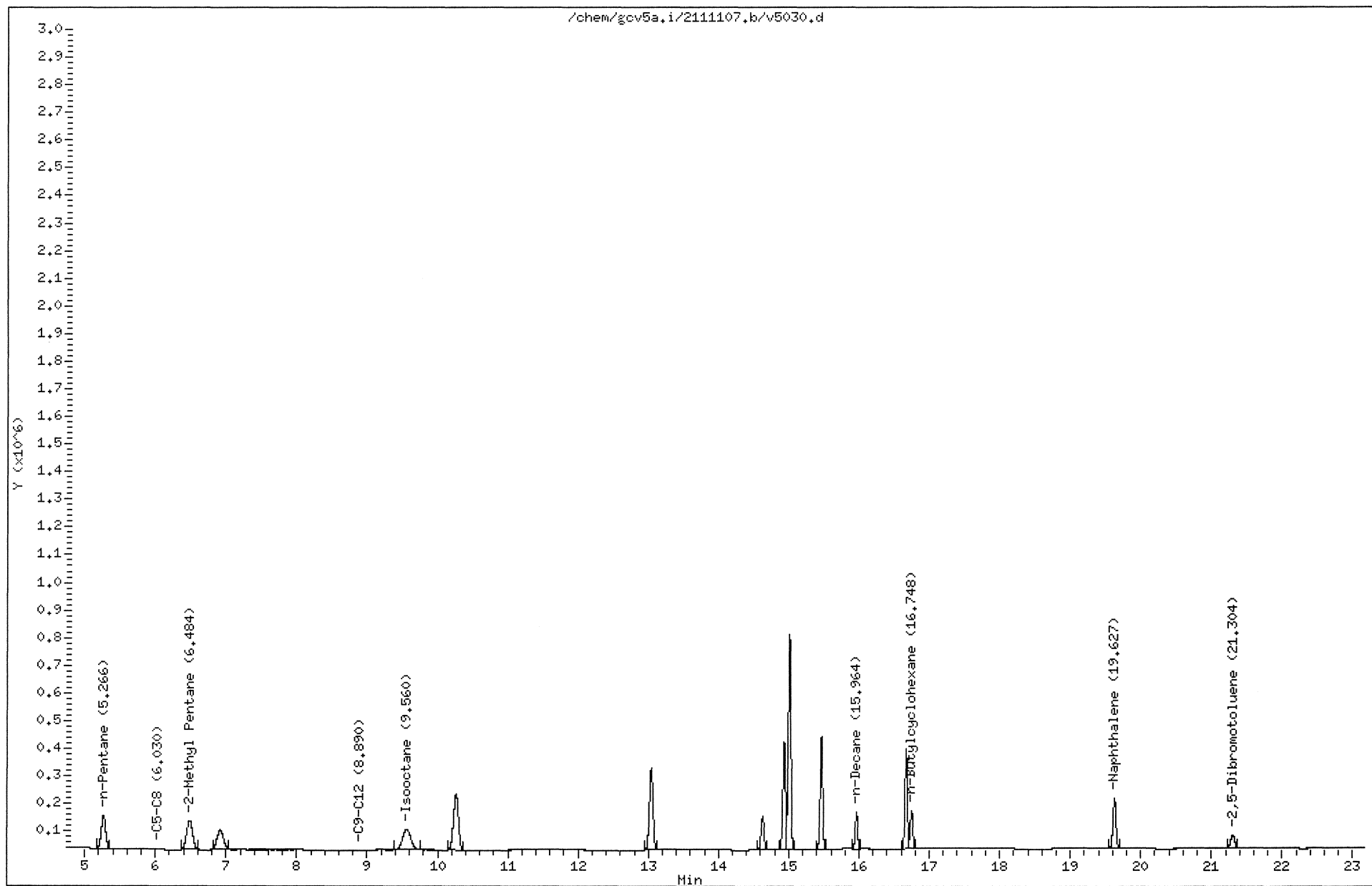
Sample Info: 21110312410

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

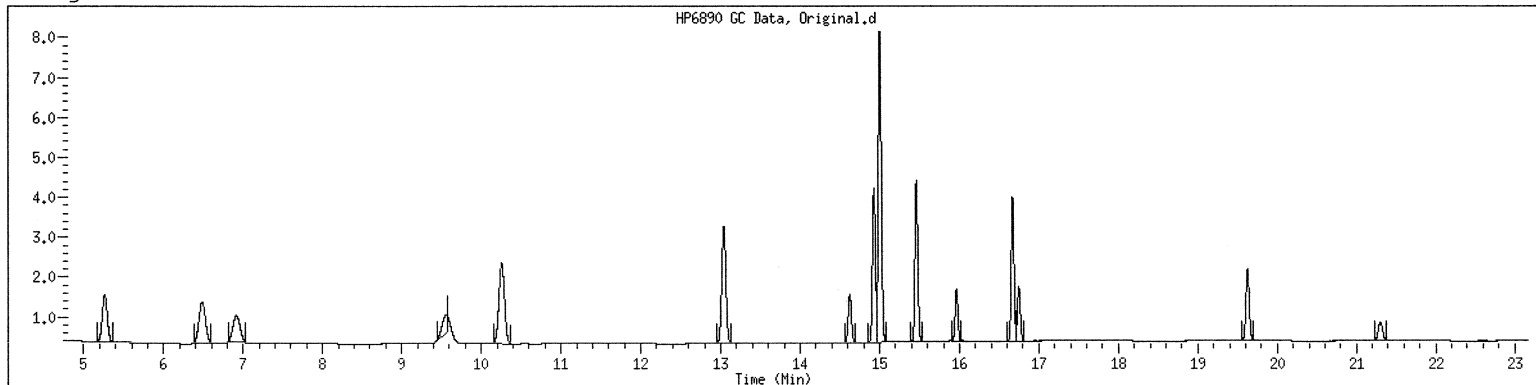
Column diameter: 0.53



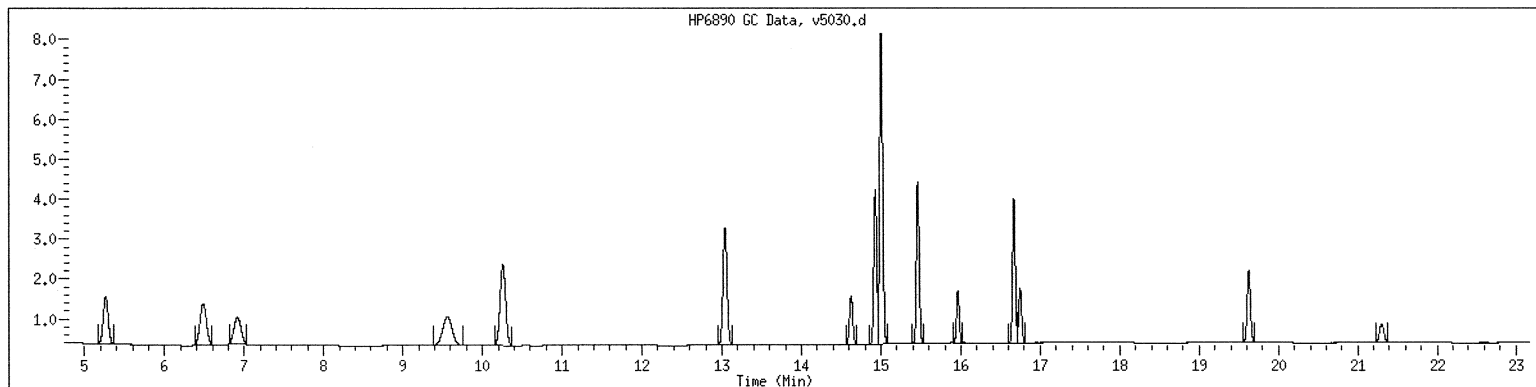
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21110312410 SampleType : MSD
Injection Date: 11/08/2011 12:22 Instrument : gcv5a.i
Operator : JAR
Sample Info : 21110312410
Misc Info :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



LABORATORY CHRONICLE: GCV DEPARTMENT

Date: 11/17/2011

Instrument: gcv5b.i

Method File: /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m

Batch: /chem/gcv5b.i/2111104P.b

Column-Detector: DB-624-30

Sample ID	ClientName	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
VPH05/6/12/4		v5001.d	1.00 ml	04-NOV-2011 20:57	1.000	JAR	1	aromatic
VPH10/6/12/4		v5003.d	1.00 ml	04-NOV-2011 21:56	1.000	JAR	1	aromatic
VPH20/6/12/4		v5005.d	5.00 g	04-NOV-2011 22:55	50.000	JAR	1	aromatic
VPH50/6/12/4		v5007.d	1.00 ml	04-NOV-2011 23:54	1.000	JAR	1	aromatic
VPH80/6/12/4		v5009.d	1.00 ml	05-NOV-2011 00:53	1.000	JAR	1	aromatic
VPH100/6/12/4		v5011.d	1.00 ml	05-NOV-2011 01:52	1.000	JAR	1	aromatic
ICV6/12/5		v5013.d	5.00 g	05-NOV-2011 02:51	50.000	JAR	1	aromatic

LABORATORY CHRONICLE: GCV DEPARTMENT

Date: 11/08/2011

Instrument: gcv5b.i

Method File: /var/chem/gcv5b.i/2111107.b/PIDMVPH.m

Batch: /var/chem/gcv5b.i/2111107.b

Column-Detector: DB-624-30

Sample ID	ClientName	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
VPH6/12/4		v5001.d	5.00 g	07-NOV-2011 11:22	50.000	JAR	1	aromatic
1003188		v5002.d	1.00 ml	07-NOV-2011 11:51	1.000	JAR	1	aromatic
1003187		v5003.d	1.00 ml	07-NOV-2011 12:21	1.000	JAR	1	aromatic
BLK		v5004.d	5.00 g	07-NOV-2011 12:50	50.000	JAR	1	aromatic
21110202112		v5005.d	1.00 ml	07-NOV-2011 13:19	50.000	JAR	1	aromatic
21110202112		v5006.d	1.00 ml	07-NOV-2011 13:49	50.000	JAR	1	aromatic
21110202105		v5007.d	5.00 g	07-NOV-2011 14:18	10000.000	JAR	1	aromatic
21110202105		v5008.d	5.00 g	07-NOV-2011 14:48	10000.000	JAR	1	aromatic
21110202112		v5009.d	5.00 g	07-NOV-2011 15:17	50.000	JAR	1	aromatic
21110202112		v5010.d	1.00 ml	07-NOV-2011 15:47	50.000	JAR	1	aromatic
VPH6/12/4		v5011.d	5.00 g	07-NOV-2011 16:16	50.000	JAR	1	aromatic
21110312401		v5012.d	1.00 ml	07-NOV-2011 18:26	10.000	JAR	1	aromatic
21110312402		v5013.d	1.00 ml	07-NOV-2011 18:55	10.000	JAR	1	aromatic
21110312403		v5014.d	1.00 ml	07-NOV-2011 19:25	10.000	JAR	1	aromatic
21110312404		v5015.d	1.00 ml	07-NOV-2011 19:55	10.000	JAR	1	aromatic
21110312408		v5016.d	1.00 ml	07-NOV-2011 21:53	1.000	JAR	1	aromatic
21110312406		v5017.d	1.00 ml	07-NOV-2011 20:54	1.000	JAR	1	aromatic
21110312407		v5018.d	1.00 ml	07-NOV-2011 21:23	1.000	JAR	1	aromatic
21110312409		v5019.d	1.00 ml	07-NOV-2011 22:22	1.000	JAR	1	aromatic
21110312410		v5020.d	1.00 ml	07-NOV-2011 22:52	1.000	JAR	1	aromatic
VPH6/12/4		v5021.d	1.00 ml	07-NOV-2011 23:22	1.000	JAR	1	aromatic
VPH6/12/4		v5022.d	1.00 ml	07-NOV-2011 23:51	1.000	JAR	1	aromatic
21110312411		v5023.d	1.00 ml	08-NOV-2011 00:21	1.000	JAR	1	aromatic
21110312412		v5024.d	1.00 ml	08-NOV-2011 00:50	1.000	JAR	1	aromatic
21111042101		v5025.d	1.00 ml	08-NOV-2011 01:20	1.000	JAR	1	aromatic
VPH6/12/4		v5026.d	1.00 ml	08-NOV-2011 01:49	1.000	JAR	1	aromatic
21110312405		v5028.d	1.00 ml	08-NOV-2011 11:23	1.000	JAR	1	aromatic
21110312409		v5029.d	1.00 ml	08-NOV-2011 11:52	1.000	JAR	1	aromatic
21110312410		v5030.d	1.00 ml	08-NOV-2011 12:22	1.000	JAR	1	aromatic
vph6/12/4		v5031.d	1.00 ml	08-NOV-2011 12:51	1.000	JAR	1	aromatic

LABORATORY CHRONICLE: GCV DEPARTMENT

Date: 11/08/2011
 Instrument: gcv5a.i
 Method File: /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
 Batch: /var/chem/gcv5a.i/2111107.b
 Column-Detector: DB-624-30

Sample ID	ClientName	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
VPH6/12/4		v5001.d	1.00 ml	07-NOV-2011 11:22	1.000	JAR	1	aliphatic1+surr
lcs6/12/4		v5002.d	1.00 ml	07-NOV-2011 11:51	1.000	JAR	1	aliphatic1+surr
BLK		v5003.d	1.00 ml	07-NOV-2011 12:21	1.000	JAR	1	aliphatic1+surr
BLK		v5004.d	1.00 ml	07-NOV-2011 12:50	1.000	JAR	1	aliphatic1+surr
21110202112		v5005.d	1.00 ml	07-NOV-2011 13:19	100.000	JAR	1	aliphatic1+surr
21110202112		v5006.d	1.00 ml	07-NOV-2011 13:49	100.000	JAR	1	aliphatic1+surr
21110270701		v5007.d	5.00 g	07-NOV-2011 14:18	10000.000	JAR	1	aliphatic1+surr
21110270701		v5008.d	5.00 g	07-NOV-2011 14:48	10000.000	JAR	1	aliphatic1+surr
21110202112		v5009.d	1.00 ml	07-NOV-2011 15:17	50.000	JAR	1	aliphatic1+surr
21110202112		v5010.d	1.00 ml	07-NOV-2011 15:47	50.000	JAR	1	aliphatic1+surr
VPH6/12/4		v5011.d	1.00 ml	07-NOV-2011 16:16	1.000	JAR	1	aliphatic1+surr
21110312401		v5012.d	1.00 ml	07-NOV-2011 18:26	10.000	JAR	1	aliphatic1+surr
21110312402		v5013.d	1.00 ml	07-NOV-2011 18:55	10.000	JAR	1	aliphatic1+surr
21110312403		v5014.d	1.00 ml	07-NOV-2011 19:25	10.000	JAR	1	aliphatic1+surr
21110312404		v5015.d	1.00 ml	07-NOV-2011 19:55	10.000	JAR	1	aliphatic1+surr
21110312408		v5016.d	1.00 ml	07-NOV-2011 21:53	1.000	JAR	1	aliphatic1+surr
21110312406		v5017.d	1.00 ml	07-NOV-2011 20:54	1.000	JAR	1	aliphatic1+surr
21110312407		v5018.d	1.00 ml	07-NOV-2011 21:23	1.000	JAR	1	aliphatic1+surr
21110312409		v5019.d	1.00 ml	07-NOV-2011 22:22	1.000	JAR	1	aliphatic1+surr
21110312410		v5020.d	1.00 ml	07-NOV-2011 22:52	1.000	JAR	1	aliphatic1+surr
VPH6/12/4		v5021.d	1.00 ml	07-NOV-2011 23:22	1.000	JAR	1	aliphatic1+surr
VPH6/12/4		v5022.d	1.00 ml	07-NOV-2011 23:51	1.000	JAR	1	aliphatic1+surr
21110312411		v5023.d	1.00 ml	08-NOV-2011 00:21	1.000	JAR	1	aliphatic1+surr
21110312412		v5024.d	1.00 ml	08-NOV-2011 00:50	1.000	JAR	1	aliphatic1+surr
21111042101		v5025.d	1.00 ml	08-NOV-2011 01:20	1.000	JAR	1	aliphatic1+surr
VPH6/12/4		v5026.d	1.00 ml	08-NOV-2011 01:49	1.000	JAR	1	aliphatic1+surr
21110312405		v5028.d	1.00 ml	08-NOV-2011 11:23	1.000	JAR	1	aliphatic1+surr
21110312409		v5029.d	1.00 ml	08-NOV-2011 11:52	1.000	JAR	1	aliphatic1+surr
21110312410		v5030.d	1.00 ml	08-NOV-2011 12:22	1.000	JAR	1	aliphatic1+surr
vph6/12/4		v5031.d	1.00 ml	08-NOV-2011 12:51	1.000	JAR	1	aliphatic1+surr

LABORATORY CHRONICLE: GCV DEPARTMENT

Date: 11/17/2011

Instrument: gcv5a.i

Method File: /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m

Batch: /chem/gcv5a.i/2111104p.b

Column-Detector: DB-624-30

Sample ID	ClientName	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
VPH05/6/12/4		v5001.d	1.00 ml	04-NOV-2011 20:57	1.000	JAR	1	aliphatic1+surr
VPH10/6/12/4		v5003.d	1.00 ml	04-NOV-2011 21:56	1.000	JAR	1	aliphatic1+surr
VPH20/6/12/4		v5005.d	1.00 ml	04-NOV-2011 22:55	1.000	JAR	1	aliphatic1+surr
VPH50/6/12/4		v5007.d	1.00 ml	04-NOV-2011 23:54	1.000	JAR	1	aliphatic1+surr
VPH80/6/12/4		v5009.d	1.00 ml	05-NOV-2011 00:53	1.000	JAR	1	aliphatic1+surr
VPH100/6/12/4		v5011.d	1.00 ml	05-NOV-2011 01:52	1.000	JAR	1	aliphatic1+surr
ICV6/12/5		v5013.d	1.00 ml	05-NOV-2011 02:51	1.000	JAR	1	aliphatic1+surr

APPL, Inc.

ARF: 66116

PO: 00-66116

SENDING LABORATORY:

APPL Labs
 908 North Temperance Ave.
 Clovis, CA 93611
 Phone: (559) 275-2175
 Fax: (559) 275-4422
 Project Manager: Cynthia Clark (cclark@applinc.com) *rp*

RECEIVING LABORATORY:

Gulf Coast Analytical
 7979 GSRI Rd.
 Baton Rouge, LA 70820
 Phone: (225) 769-4900x
 Fax:
 DOD Expiration Date:

Comments: Level IV report - DoD format (LOQ/LOD/DL), ADR (A1/A3 8.3a unchecked) EDD and Excel EDD

	APPL ID	Sample ID	LOC ID	Matrix	Collected	Analysis		Price
1.	AY49481	ES050		Water	10/25/11 09:50	MADEP-EPH		\$125.00
				Water	10/25/11 09:50	MADEP-VPH	6	\$75.00
2.	AY49482	ES051		Water	10/25/11 11:30	MADEP-EPH		\$125.00
				Water	10/25/11 11:30	MADEP-VPH	7	\$75.00

Released By	<i>Jang</i>	Date	<i>10/28/11</i>	Time	<i>14:30</i>	Received By	<i>Claudia</i>	Date	<i>10/29/11</i>	Time	<i>9:10</i>
Released By		Date		Time		Received By		Date		Time	

To ensure timely payment, please include the PO number on your invoice



SAMPLE RECEIVING CHECKLIST

Workorder: 211110257

Client: 9000 - General Accounts

Profile: 227122 - Appl. Inc.

Line Item: 1 - Waters

Received by: Saucier, Charlotte

Received Date/Time: 10/29/2011 9:10:00 AM

Samples Received via: FEDEX

Number of Coolers Received: 3

Cooler tracking numbers(s): 4796 7085 3220 / 4796 7085 3231 / 4796 7085 3242

Cooler temperature(s): 5.9, 5.8, 3.4

- Were all coolers received at a temperature of 0 - 6° C? Yes No N/A
- Were all custody seals intact? Yes No N/A
- Were all samples received in proper containers? Yes No N/A
- Were all samples properly preserved? Yes No N/A
- Was preservative added to any container at the lab? Yes No N/A
- Were all containers received in good condition? Yes No N/A
- Were all VOA vials received with no head space? Yes No N/A
- Do all sample labels match the Chain of Custody? Yes No N/A
- Was the client notified about any discrepancies? Yes No N/A

Notes/Comments: _____



908 North Temperance Ave. ▽ Clovis, CA 93611 ▽ Phone 559-275-2175 ▽ Fax 559-275-4422

Certification Number: CA1312
NELAP Certification number: 05233CA
DoD-ELAP Certificate number: ADE-1410

Data Validatable Report

December 12, 2011

Environet, Inc.
650 Iwilei Road, #204
Honolulu, HI 96817

Attn: Stacey Fineran

Title: Report of Data: Case 66186

Project: 1022-024 LTM Red Hill Bulk Fuel Storage Facility

Contract #: Prime contract # for DoD: N62742-08-D-1930, CTO HC21

Dear Ms. Fineran:

Samples were received November 3, 2011, in good condition. Written results for the requested analyses are provided on this December 12, 2011.

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

The MADEP-EPH and VPH analyses were subcontracted to Gulf coast Analytical Laboratories, Inc.

If you have any questions or require further information, please contact your APPL Project Manager, Diane Anderson, at your convenience. Thank you for choosing APPL, Inc.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC and DoD QSM. Release of the hard copy has been authorized by the Laboratory Manager or her designee, as verified by the following signature.

A handwritten signature in black ink, appearing to read 'Sharon Dehmlow', written in a cursive style.

Sharon Dehmlow, Laboratory Director
APPL, Inc.

SD/sdm
Enclosure
cc: File

Number of pages in this report: 327

Data Validation Package
for
LTM Red Hill Bulk Fuel Storage Facility

SDG 66186

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Calibration Data

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Raw Data

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Gulf Coast Analytical Laboratories report

SAMPLE RECEIPT INFORMATION

Sample receipt information

ARF: 66186

Project: 1022-024 LTM Red Hill Bulk Fuel Storage Facility

Sample Receipt Information:

The samples were received on November 3, 2011, at 3.0°C. The samples were assigned Analytical Request Form (ARF) number 66186. The sample numbers and requested analysis were compared to the chains of custody and email communications. No other exception was encountered.

Sample Table

CLIENT ID	APPL ID	Matrix	Date Sampled	Date Received
ES056	AY50004	WATER	11/2/2011	11/3/2011
ES057	AY50005	WATER	11/2/2011	11/3/2011

Samples and blanks were screened for J-value responses between the detection limit (DL) and limit of quantitation (LOQ).

APPL's laboratory control limits generated in house statistically do not meet the control limits listed in DoD QSM 4.2 for all analytes. Laboratory control spike recoveries for this project meet all control limits listed in the DoD QSM 4.2 except where noted. A copy of our in house generated control limits is available upon request. In addition, a copy of our LOQ control limits, established using 7 data points, are also available upon request.

Only the portion of the injection log relative to these samples is included. A full sequence log is available upon request.

Measurement uncertainty can be reported upon request.

CASE NARRATIVE

EPA Method 8015B

Total Petroleum Hydrocarbons – Diesel

Sample Preparation:

The water samples were extracted according to EPA method 3510C. The samples were extracted within holding time.

Sample Analysis Information:

The samples were analyzed according to the method using a Hewlett Packard Gas Chromatograph with a flame ionization detector.

Quality Control/Assurance

Calibrations:

Initial and continuing calibrations were performed according to the method. All calibration criteria were met.

Blanks:

No target analyte was detected above the detection limit in the method blank.

Spikes:

A Laboratory Control Spike (LCS) was used for quality assurance. All acceptance criteria were met.

No sample was designated for MS/MSD analysis.

Surrogates:

The surrogate recoveries are summarized on the form 2 & 8. All surrogate recoveries were within control limits.

Summary:

No other problem was encountered

EPA Method 8270D SIM

Polynuclear Aromatic Hydrocarbons

Sample Preparation:

The water sample was extracted according to EPA method 3510C. All holding times were met.

Sample Analysis Information:

The sample was analyzed according to EPA method 8270D using a Hewlett Packard Gas Chromatograph with a mass spectrometer detector in selective ion monitoring mode.

Quality Control/Assurance

Calibrations:

Initial and continuing calibrations were performed according to the method. All calibration criteria were met.

Blanks:

No target analyte was detected above the detection limits in the method blank.

Spikes:

A Laboratory Control Spike (LCS) was used for quality assurance. All spike criteria were met.

No sample was designated for MS/MSD analysis.

Surrogates

Surrogate recoveries are summarized on the forms 2&8. All surrogate recoveries were within control limits.

Tuning:

The instrument was tuned using DFTPP. All method criteria were met.

Internal Standards

The internal standard area counts were compared to the mid-point of the initial calibration according to method 8270. All method criteria were met.

Summary:

No problem was encountered.

EPA Method 8260B

Volatile Organic Analysis

Sample Preparation:

The water samples were purged according to EPA method 5030B. All holding times were met.

Sample Analysis Information:

The samples were analyzed according to the method using a Hewlett Packard Gas Chromatograph with a mass spectrometer detector. All holding times were met.

Quality Control/Assurance:

Calibrations:

Initial and continuing calibrations were performed according to the method. All system performance check compounds and calibration check compounds met DoD acceptance criteria. All calibration criteria were met.

Blanks:

No target analyte was detected above the detection limits in the method blanks.

Spikes:

Laboratory Control Spikes (LCS) were used for quality assurance. A second-source standard was used for the LCS. All second-source and LCS criteria were met.

There was no sample designated for MS/MSD analysis.

Surrogates:

Surrogate recoveries are summarized on Form 2 & 8. All surrogate recoveries were within the acceptance limits.

Tuning:

The instrument was tuned using BFB. All method criteria were met.

Internal Standards:

The internal standard area counts were compared to the mid-point of the initial calibration according to method 8260. All method criteria were met.

Summary:

No other problem was encountered. The data generated are acceptable.

EPA Method 6020

Dissolved Lead

Digestion Information:

The water samples were digested according to EPA methods 3015. All holding times were met.

Analysis Information:

Samples:

The samples were analyzed for dissolved lead according to EPA method 6020 using an Agilent 7500CX ICP-MS.

Calibrations:

The initial and continuing calibrations were analyzed according to the DoD QSM. The initial calibration verification is prepared from a second source standard.

Blanks:

No metal was detected at or above one-half the LOQ in the method blank.

Spikes:

Laboratory Control Spike (LCS), matrix spikes (MS/MSD), post digestion spike (PDS), and serial dilution were used for quality assurance. All LCS recoveries were within the acceptance limits.

Sample ES053 (ARF 66133) was designated by the laboratory as QC sample for the analytical batch. The PDS and DT are reported in ARF 66133.

Summary:

No analytical exception is noted.

CERTIFICATION

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC and DoD QSM. Release of the hard copy has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Sharon Dehmlow, Laboratory Director / Date

Abbreviations and Flags


FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
M1	Manual integration: integration does not follow baseline
M2	Manual integration: non-target peak interference
M3	Manual integration: to split a peak that was integrated as one peak by the computer
M4	Manual integration: to integrate a split peak
M5	Manual integration: the whole peak or part of the peak was not integrated
M6	Manual integration: computer integrated wrong peak
M7	Manual integration: other - explain
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel.
Y	Percent difference between primary and confirmation column > 40%

**CHAIN OF CUSTODY,
ARF, CRF, AND
CLIENT COMMUNICATION**

APPL - Analysis Request Form

66186



Client: Environet, Inc.
 Address: 650 Iwilei Rd, #204
Honolulu, HI 96817
 Attn: Stacey Fineran
 Phone: 808-833-2225 Fax: 808-833-2231
 Job: RED HILL/1022-024
 PO #: 1022-024
 Chain of Custody (Y/N): Y # 1853
 RAD Screen (Y/N): Y pH (Y/N): Y
 Turn Around Type: 2 WEEKS

Received by: TBV 
 Date Received: 11/03/11 Time: 10:15
 Delivered by: FED EX
 Shuttle Custody Seals (Y/N): Y Time Zone: HAST
 Chest Temp(s): 3.0°C
 Color: VOA,A-GRN,SUB,R-OYEL
 Samples Chilled until Placed in Refrig/Freezer: Y
 Project Manager: Cynthia Clark *am*
 QC Report Type: DVP4/ADRDOD/HI
 Due Date: 11/17/11

Comments:

14 day TAT for Form 1s & 30 day TAT for full package. VDupra@environetinc.com
 1 pdf on CD or FTP (no hard copy), NO hard copy to LDC per Stacy 2-24-11
 Guidance: DOD QSM, DoD Forms, J flag to DL, U flag at LOD
 EDD ADR A1/A3 (ADR 8.3a unchecked) to VDupra@ & sfineran@environetinc.com
 metals 6020: report Lead with 0.5ug/L RL
 TPH-Diesel only; VOCs: include gasoline by 8260B
 MA-EPH & VPH subcontracted to Gulf Coast Analytical.

<u>Sample Distribution:</u>	<u>Charges:</u>	<u>Invoice To:</u>
GC: ^{11/2} 1- \$SIMHC12W , ^{11/30} 1- \$TPETD2 Extractions: 1- SEP004S, 1- SEP011 VOA 2- \$86RHBF 12/09 Metals: 1- \$602D(Pb) 11-15 Other: 1- M3015, 1-SUB		same

Client ID	APPL ID	Sampled	Analyses Requested
1. ES056	AY50004 	11/02/11 07:00	\$86RHBF -- unpreserved VOA vials
2. ES057	AY50005 	11/02/11 11:05	\$602D(Pb), \$86RHBF, \$SIMHC12W, \$TPETD2, SUB -- unpreserved VOA vials

APPL Sample Receipt Form

ARF# 66186

Sample	Container Type	Count	pH
AY50004	¹⁵ VOAs - NP	1	NA
AY50005	⁶ PL 500mL - HNO3	1	1.7
	¹³ VOAs - HCL	3	NA
	¹⁵ VOAs - NP	4	NA
	¹⁷ Amber Liter	3	NA
	²⁶ Other	2	NA

Sample Container Type Count pH



APPL, Inc. 908 N Temperance Ave, Clovis, CA 93611
 Phone: 559-275-2175 Fax: 559-275-4422

CHAIN OF CUSTODY RECORD

66186
3.0

Client: Enviroart Inc.		Person Geographic Lead		Date: 11-2-11		Chain of Custody Number: 1555																		
Address: 650 Twilei Road		Telephone Number (Area Code)/Fax Number: 808-833-2225		Lab Number: 559 275-2175		Page: 1 of 1																		
City: Honolulu	State: HI	Zip Code: 96817	Site Contact	Lab Contact: Diane Anderson	Analysis (Attach list if more space is needed)																			
Project Name and Location (State): Red Hill Bulk Storage Facility HI		Carrier/Waybill Number																						
Contract/Purchase Order/Quote No.: 1022-024		Matrix		Containers & Preservatives				Special Instructions/Conditions of Receipt																
Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	AQ	Sed.	Soil	Unpres.	H2SO4		HNO3	HCl	H2O2	ZnAc2	H2O2	TPH-GRO	VOCs	TPH-PRO	PAHs	dissolved lead	MADEP-VPH	MADEP-EPH	Firing Point	High Lead	HE Site	
ES056	11-2-11	0700	X			1								X										
ES057	11-2-11	1105	X			5		1	7					X	X	X	X	X	X					
Temp Blank			X			1																		
1. Relinquished By:		Date: 11-2-11	Time: 13:22	1. Received By:		Date: 11/3/11	Time: 1015																	
2. Relinquished By:		Date:	Time:	2. Received By:		Date:	Time:																	
Comments: Fed Ex Priority Overnight						# of Coolers this Shipment																		

DISTRIBUTION: WHITE - Returned to Client with Report

Canary - Stays with the Sample

Pink - Field Copy

COOLER RECEIPT FORM -

- 1) Project: LTM Red Hill Bulk Fuel Storage Facility Date Received: 11/2/11
- 2) Coolers: Number of Coolers: 1
- 3) YES NO Were coolers and samples screened for radioactivity?
- 4) YES NO Were custody seals on outside of cooler? How many? 1 Date on seal? 11/2/11
- 5) Name on seal? See label below
- 6) YES NO NA Were custody seals unbroken and intact at the time of arrival?
- 7) YES NO Did the cooler come with a shipping slip (air bill, etc.)? Carrier name: Fed Ex
- 8) Shipping slip numbers: 1) 8764-1243-24102 3) _____
- 9) YES NO NA Was the shipping slip scanned into the database?
- 10) YES NO NA If cooler belongs to APPL, has it been logged into the ice chest database?
- 11) Describe type of packing in cooler (bubble wrap, popcorn, type of ice, etc.): Zip lock Bubble wrapped - wet ice
- 12) YES NO NA For hand delivered samples was sufficient ice present to start the cooling process?
- 13) YES NO Was a temperature blank included in the cooler?
- 14) Serial number of certified NIST thermometer used: A39267 Correction factor: 0
- 15) Cooler temp(s): 1) 3.0° 2) _____ 3) _____ 4) _____ 5) _____ 6) _____ 7) _____ 8) _____

Chain of custody:

- 16) YES NO Was a chain of custody received?
- 17) YES NO Were the custody papers signed in the appropriate places?
- 18) YES NO Was the project identifiable from custody papers?
- 19) YES NO Did the chain of custody include date and time of sampling?
- 20) YES NO Is location where sample was taken listed on the chain of custody?

Sample Labels:

- 21) YES NO Were container labels in good condition?
- 22) YES NO Was the client ID on the label?
- 23) YES NO Was the date of sampling on the label?
- 24) YES NO Was the time of sampling on the label?
- 25) YES NO Did all container labels agree with custody papers?

Sample Containers:

- 26) YES NO Were all containers sealed in separate bags?
- 27) YES NO Did all containers arrive unbroken?
- 28) YES NO Was there any leakage from samples?
- 29) YES NO Were any of the lids cracked or broken?
- 30) YES NO Were correct containers used for the tests indicated?
- 31) YES NO Was a sufficient amount of sample sent for tests indicated?
- 32) YES NO NA Were bubbles present in volatile samples? If yes, the following were received with air bubbles:
Larger than a pea: _____
Smaller than a pea: _____

Preservation & Hold time:

- 33) YES NO NA Was a sufficient amount of holding time remaining to analyze the samples?
- 34) YES NO NA Do the sample containers contain the same preservative as what is stated on the COC?
- 35) YES NO NA Was the pH taken of all non-VOA preserved samples and written on the sample container?
- 36) YES NO NA Was the pH of acid preserved non-VOA samples < 2 & sodium hydroxide preserved samples > 12?
- 37) YES NO NA Unpreserved VOA Vials received? _____
- 38) YES NO NA Are unpreserved VOA vials noted in the ADD TEST FIELD on the ARF? _____

Lab notified if pH was not adequate: _____
 Deficiencies: _____

Signature of personnel receiving samples: [Signature] Second reviewer: [Signature]
 Signature of project manager notified: _____ Date and Time of notification: _____
 Name of client notified: _____ Date and Time of notification: _____
 Information given to client: _____ by whom (Initials): _____

CUSTODY SEAL

APPL, Inc. (559) 275-2175

Initials: [Signature] Date 11-2-11

**EPA 8015 Modified
Total Petroleum Hydrocarbons**

**EPA 8015 Modified
Total Petroleum Hydrocarbons
QC Summary**

Method Blank
TPH Diesel Water

Blank Name/QCG: 111108W-50005 - 161797
Batch ID: #TPETD-111108A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	DIESEL FUEL	80.8 U	150	80.8	40.4	ug/L	11/08/11	11/11/11
BLANK	SURROGATE: OCTACOSANE (S)	78.6	28-142			%	11/08/11	11/11/11
BLANK	SURROGATE: ORTHO-TERPHEN	78.5	57-132			%	11/08/11	11/11/11

Quant Method:TPH1108.M
Run #: 1110052
Instrument:APOLLO
Sequence: 111110
Initials:LA

GC SC-Blank-REG MDLs
Printed: 11/30/11 2:44:01 PM

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 66186

Case No: 66186

Date Analyzed: 11/11/11

Matrix: WATER

Instrument: APOLLO

APPL ID.	Client Sample No.	SURROGATE: OCTACOSANE (S)			SURROGATE: ORTHO-TERPHENYL (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
111108A-BLK	Blank	28-142	78.6		57-132	78.5	
111108A-LCS	Lab Control Spike	28-142	82.7		57-132	94.0	
AY50005	ES057	28-142	73.2		57-132	70.9	

Comments: Batch: #TPETD-111108A

Laboratory Control Spike Recovery
TPH Diesel Water

APPL ID: 111108W-50005 LCS - 161797
Batch ID: #TPETD-111108A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
DIESEL FUEL	2000	1620	81.0	61-143
SURROGATE: OCTACOSANE (S)	150	124	82.7	28-142
SURROGATE: ORTHO-TERPHENYL (S)	150	141	94.0	57-132

Comments: _____

<u>Primary</u>	<u>SPK</u>
Quant Method :	TPH1108.M
Extraction Date :	11/08/11
Analysis Date :	11/11/11
Instrument :	APOLLO
Run :	1110053
Initials :	LA

Printed: 11/30/11 2:43:55 PM
APPL Standard LCS

EPA 8015B-e

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 66186

Case No: 66186

Date Analyzed: 11/11/11

Matrix: WATER

Instrument: APOLLO

Blank ID: 111108A-BLK

Time Analyzed: 0605

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
111108A-BLK	Blank	1110052	11/11/11 0605
111108A-LCS	Lab Control Splke	1110053	11/11/11 0628
AY50005	ES057	1110055	11/11/11 0715

Comments: Batch: #TPETD-111108A

**EPA 8015 Modified
Total Petroleum Hydrocarbons
Sample Data**

TPH Diesel Water

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacey Fineran
Project: RED HILL/1022-024

ARF: 66186

Sample ID: ES057

APPL ID: AY50005

Sample Collection Date: 11/02/11

QCG: #TPETD-111108A-161797

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8015B-	DIESEL FUEL	210 ++	150	80.8	40.4	ug/L	11/08/11	11/11/11
EPA 8015B-	SURROGATE: OCTACOSANE (S)	73.2	28-142			%	11/08/11	11/11/11
EPA 8015B-	SURROGATE: ORTHO-TERPHENYL (S)	70.9	57-132			%	11/08/11	11/11/11

++(T6) The analyst has noted that the chromatogram of this sample is mainly a match to hydrocarbons within the range of diesel fuel.

Quant Method: TPH1108.M
Run #: 1110055
Instrument: APOLLO
Sequence: 111110
Dilution Factor: 1
Initials: LA

Printed: 11/30/11 2:43:58 PM
APPL-F1-SC-NoMC-REG MDLs

Data File : G:\APOLLO\DATA\111110\1110055.D Vial: 55
 Acq On : 11-11-11 7:15:54 Operator: LAC
 Sample : AY50005W07 5/1030 Inst : Apollo
 Misc : Water Multiplr: 4.85
 IntFile : events.e
 Quant Time: Nov 30 14:31 2011 Quant Results File: TPH1108.RES

Method : G:\APOLLO\DATA\111110\TPH1108.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Nov 14 13:54:20 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

4) SC Ortho-Terphenyl(S)	9.20	12911497	103.246 ppb
Surrogate Spike 145.631		Recovery =	70.90%
6) SC Octacosane(S)	12.10	3378806	106.609 ppb
Surrogate Spike 145.631		Recovery =	73.20%

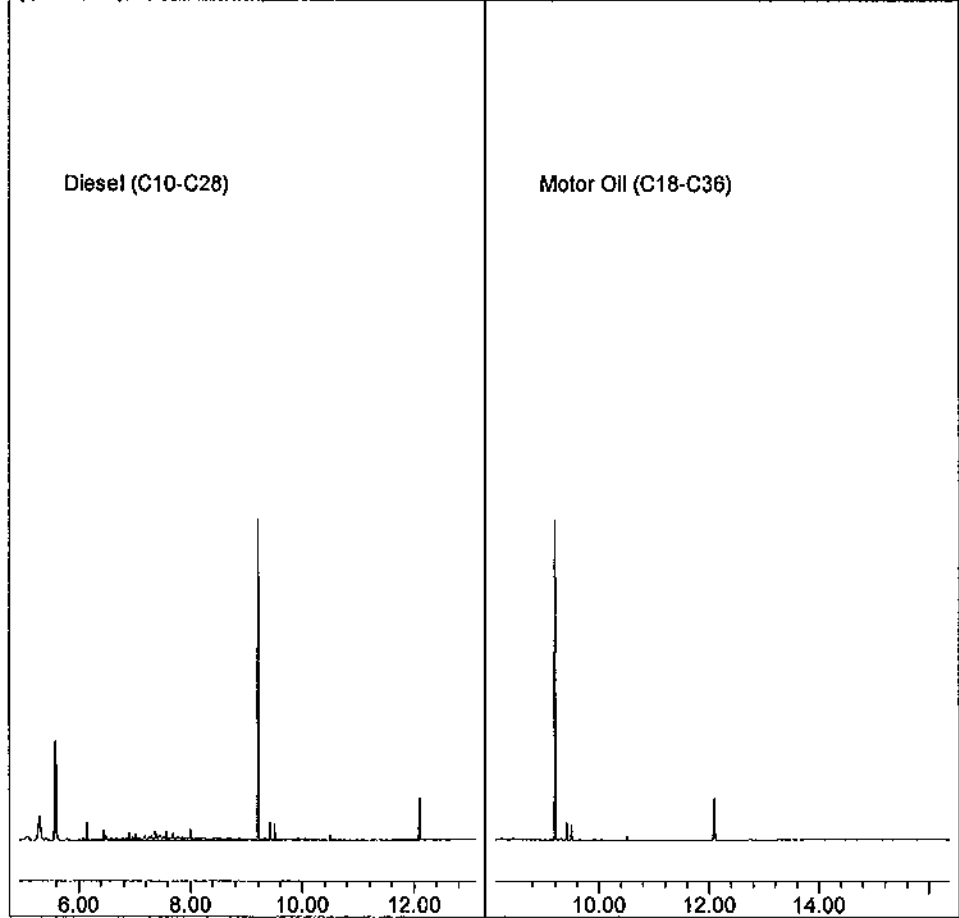
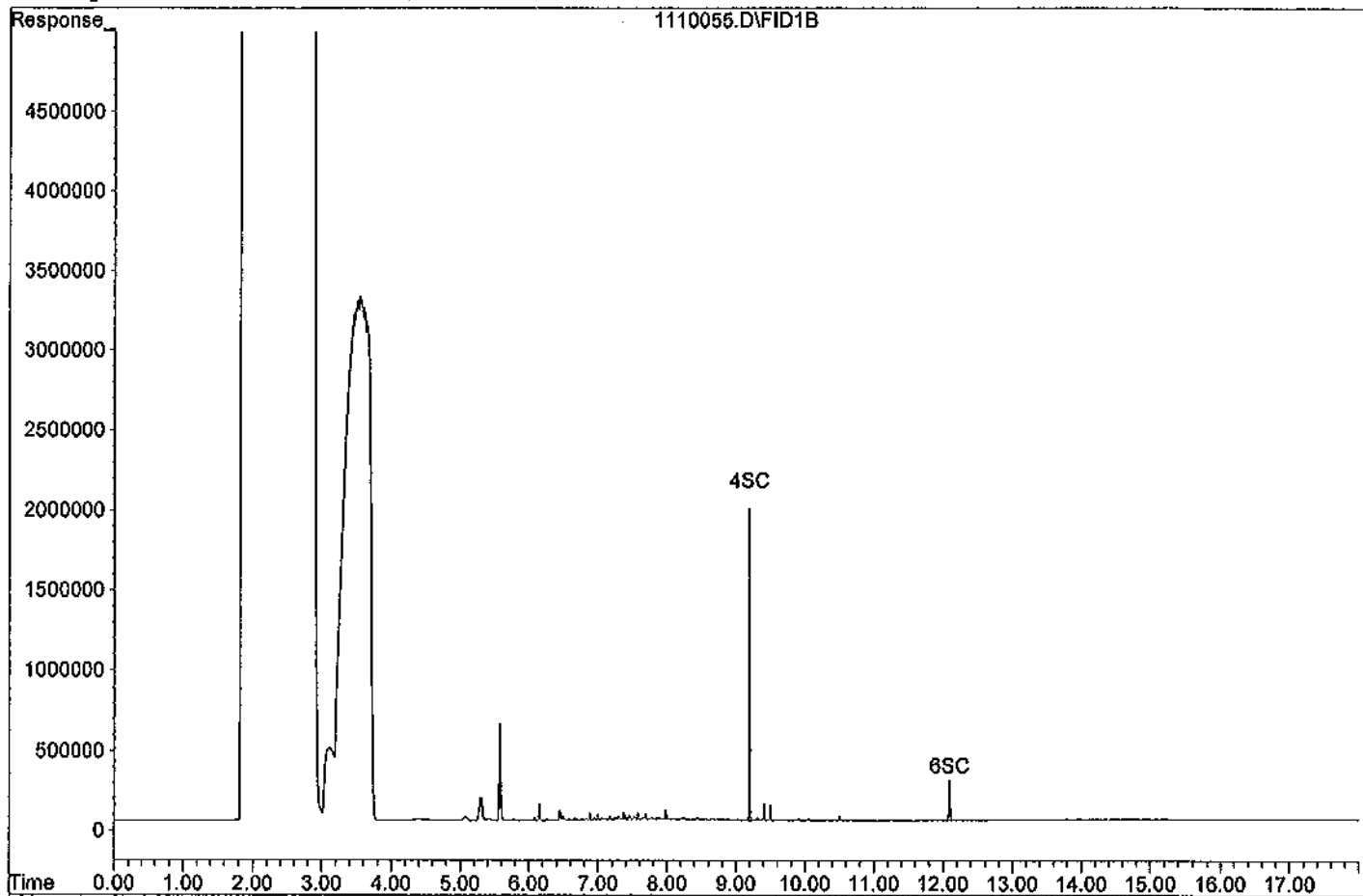
Target Compounds

1) HATM Diesel (C10-C28)	9.01	24041572	211.437 ppb T6 LAC 11/30/11
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Quantitation Report

Data File: G:\APOLLO\DATA\111110\1110055.D

Sample : AYS0005W07 5/1030



**EPA 8015 Modified
Total Petroleum Hydrocarbons
Calibration Data**

TPH Extractables
 TPH1108
 Form 6
 Initial Calibration

Lab Name: APPL, Inc.
 Case No: _____
 Matrix: _____

SDG No: 66186
 Initial Cal. Date: 11/08/11
 Instrument: Apollo

Initials: LAC

1108089.D 1108018.D 1108019.D 1108020.D 1108021.D 1108022.D

	Compound	1	2	3	4	5	6					Avg	%RSD		
1	HATML Diesel (C10-C28)	613132	243101	243681	243678	244044	245201					305473	49	HATML	1.000
2	HBTM Motor Oil (C18-C36)	140437	99632	104190	111186	116539	125373					116226	13	HBTM	
3	SA Not Used(S)	302444	320737	318016	323983	383528	387566					339379	11	SA	
4	SC Ortho-Terphenyl(S)	292692	322827	291343	308250	301021	305069					303534	3.8	SC	
5	SA Not Used2(S)		81698	75651	78041	78921	79877					78838	2.8	SA	
6	SC Octacosane(S)	74061	79772	73618	77274	77396	79433					76925	3.4	SC	
7															
8															
9															
10															
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35															

2.3712952

Data File : G:\APOLLO\DATA\111108\1108005.D Vial: 5
 Acq On : 11-8-11 15:50:59 Operator: LAC
 Sample : DIESEL 100/1000 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 10 08:39:08 2011
 Response via : Multiple Level Calibration

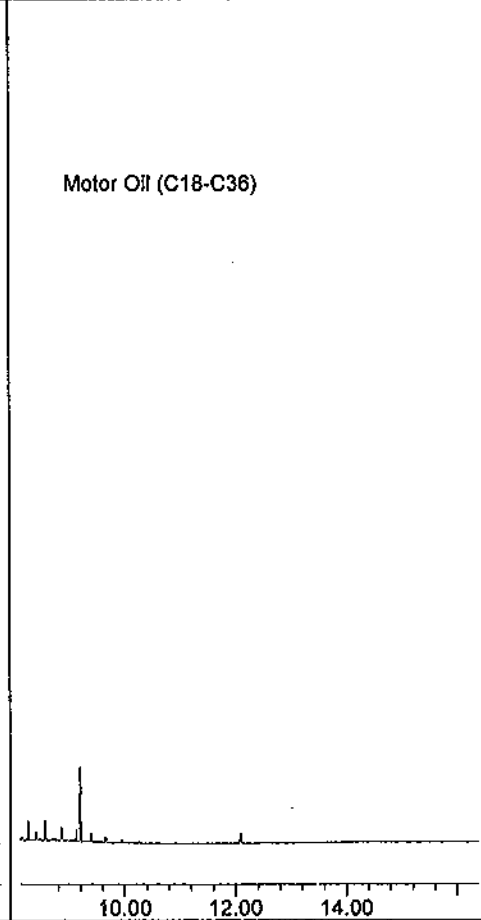
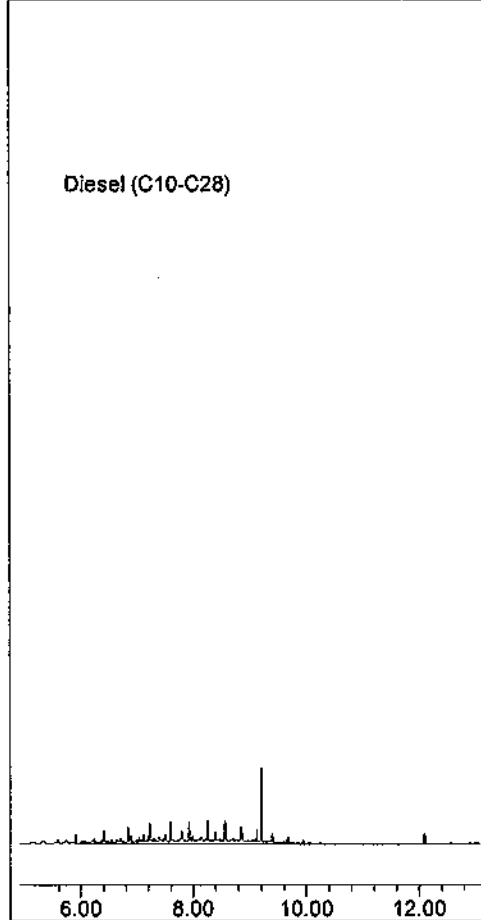
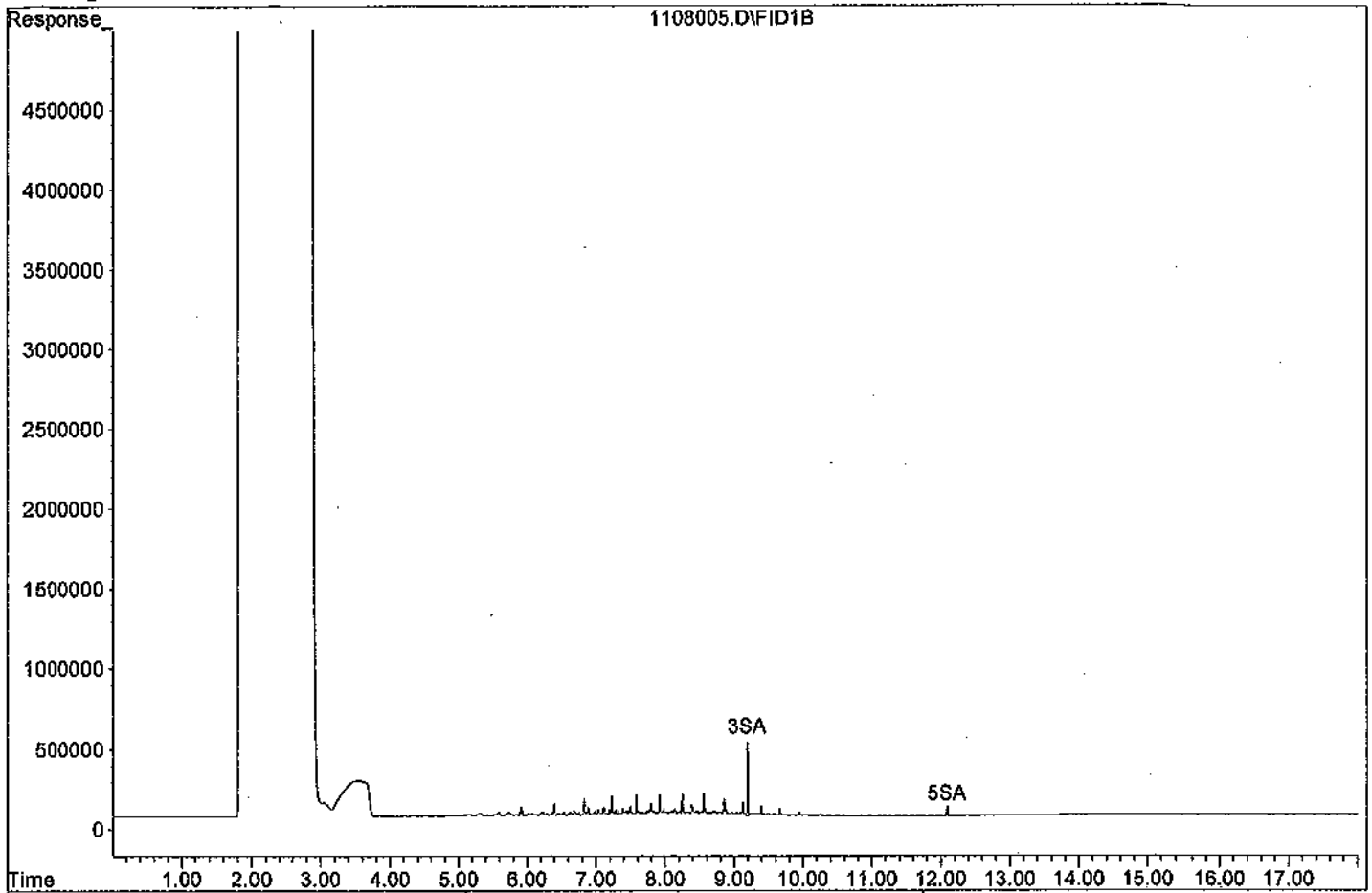
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Not Used(S)	9.20	3207373	2.983 ppb
Surrogate Spike 30.000		Recovery =	9.94%
5) SA Not Used2(S)	12.09	816983	1.649 ppb
Surrogate Spike 30.000		Recovery =	5.50%
Target Compounds			
1) HATM Diesel (C10-C28)	9.01	48620150	57.751 ppb

Data File: G:\APOLLO\DATA\111108\1108005.D

Sample : DIESEL 100/1000



Data File : G:\APOLLO\DATA\111108\1108006.D Vial: 6
 Acq On : 11-8-11 16:14:36 Operator: LAC
 Sample : DIESEL 400/1000 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 10 08:39:08 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

3) SA Not Used(S)	9.20	12720627	11.832 ppb
Surrogate Spike 30.000		Recovery =	39.44%
5) SA Not Used2(S)	12.09	3026041	6.108 ppb
Surrogate Spike 30.000		Recovery =	20.36%

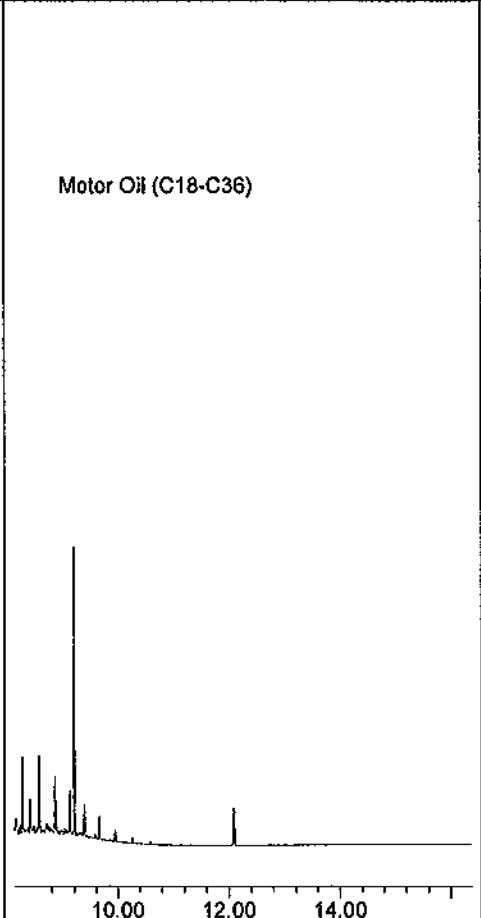
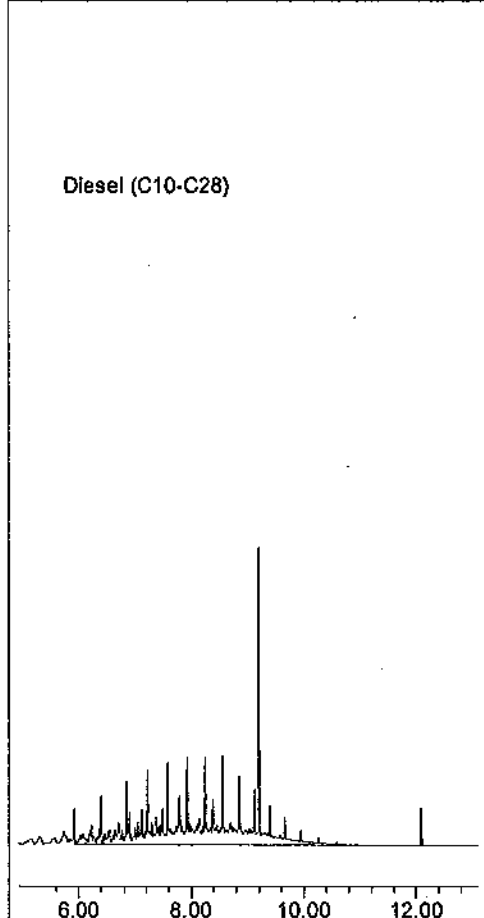
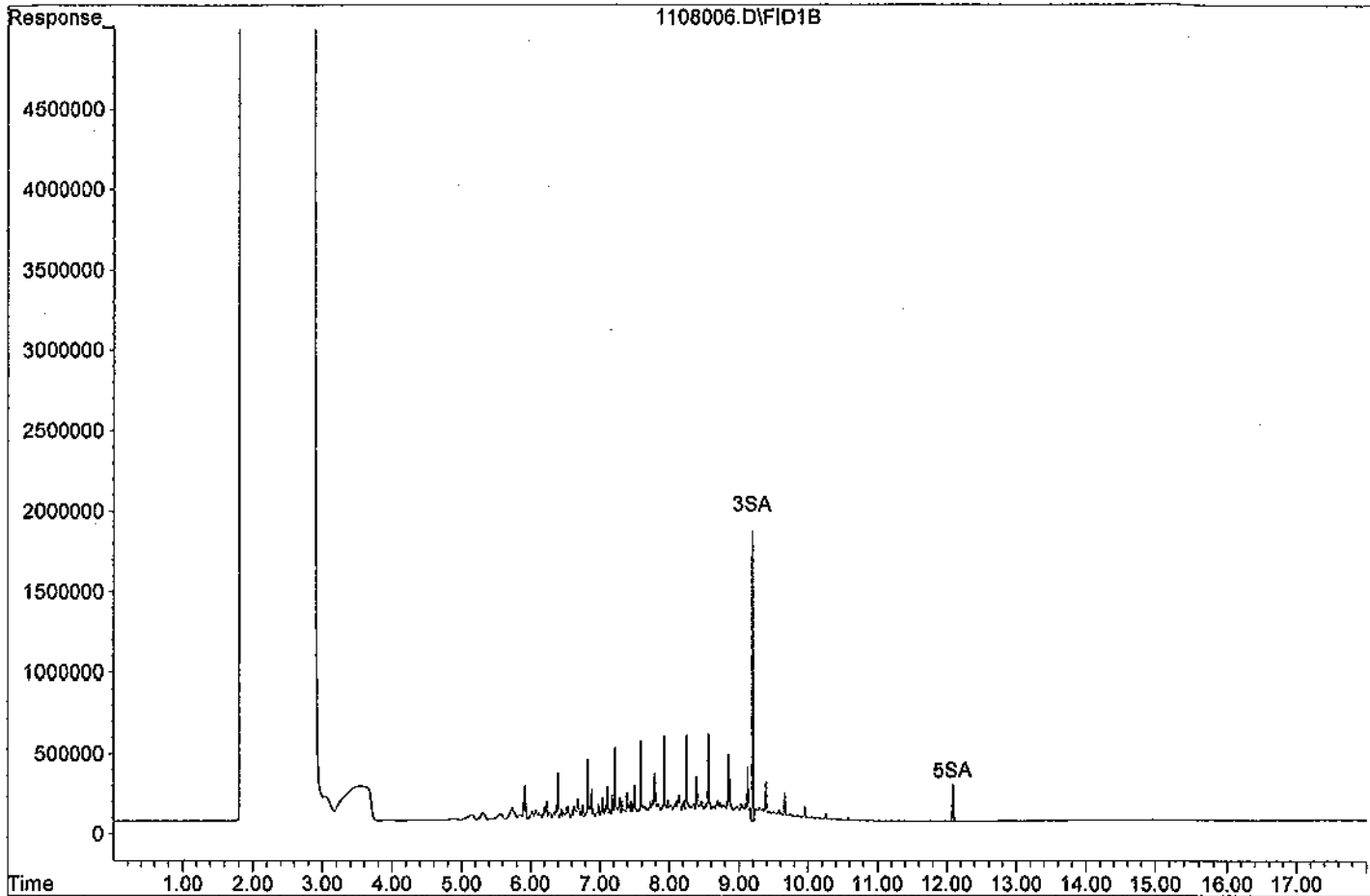
Target Compounds

1) HATM Diesel (C10-C28)	9.01	194945056	231.556 ppb
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Quantitation Report

Data File: G:\APOLLO\DATA\111108\1108006.D

Sample : DIESEL 400/1000



Data File : G:\APOLLO\DATA\111108\1108007.D Vial: 7
 Acq On : 11-8-11 16:38:14 Operator: IAC
 Sample : DIESEL 600/1000 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 10 08:39:08 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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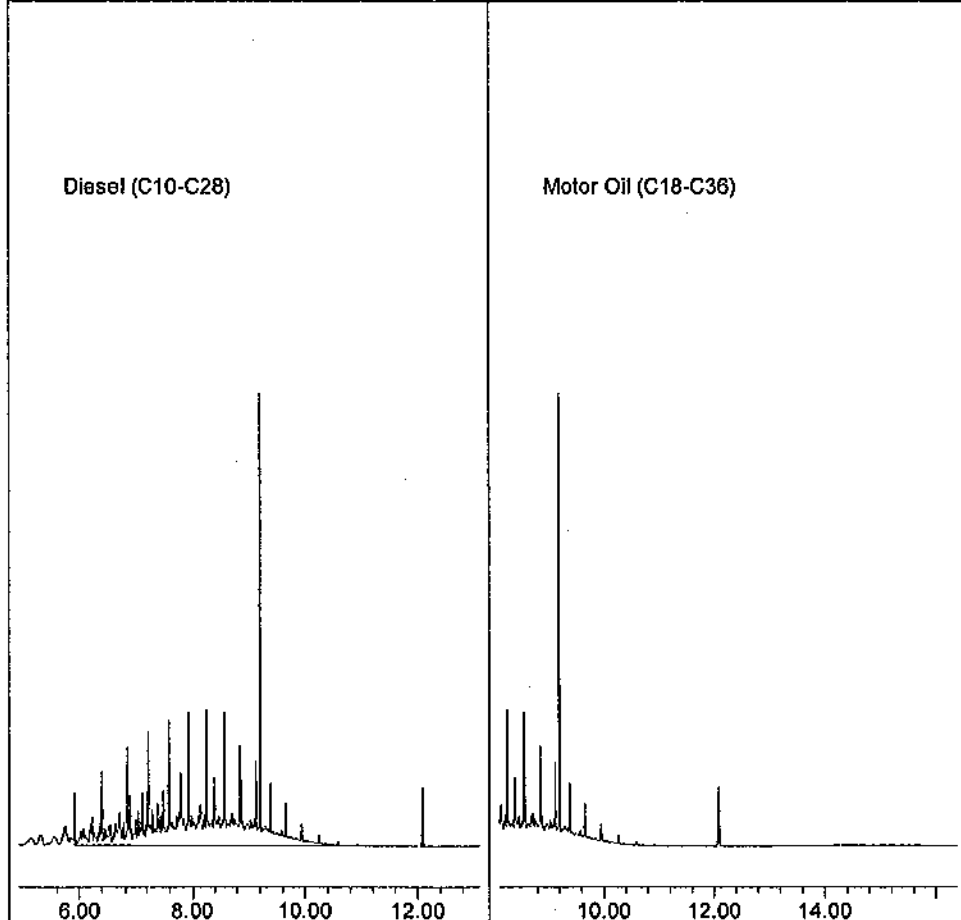
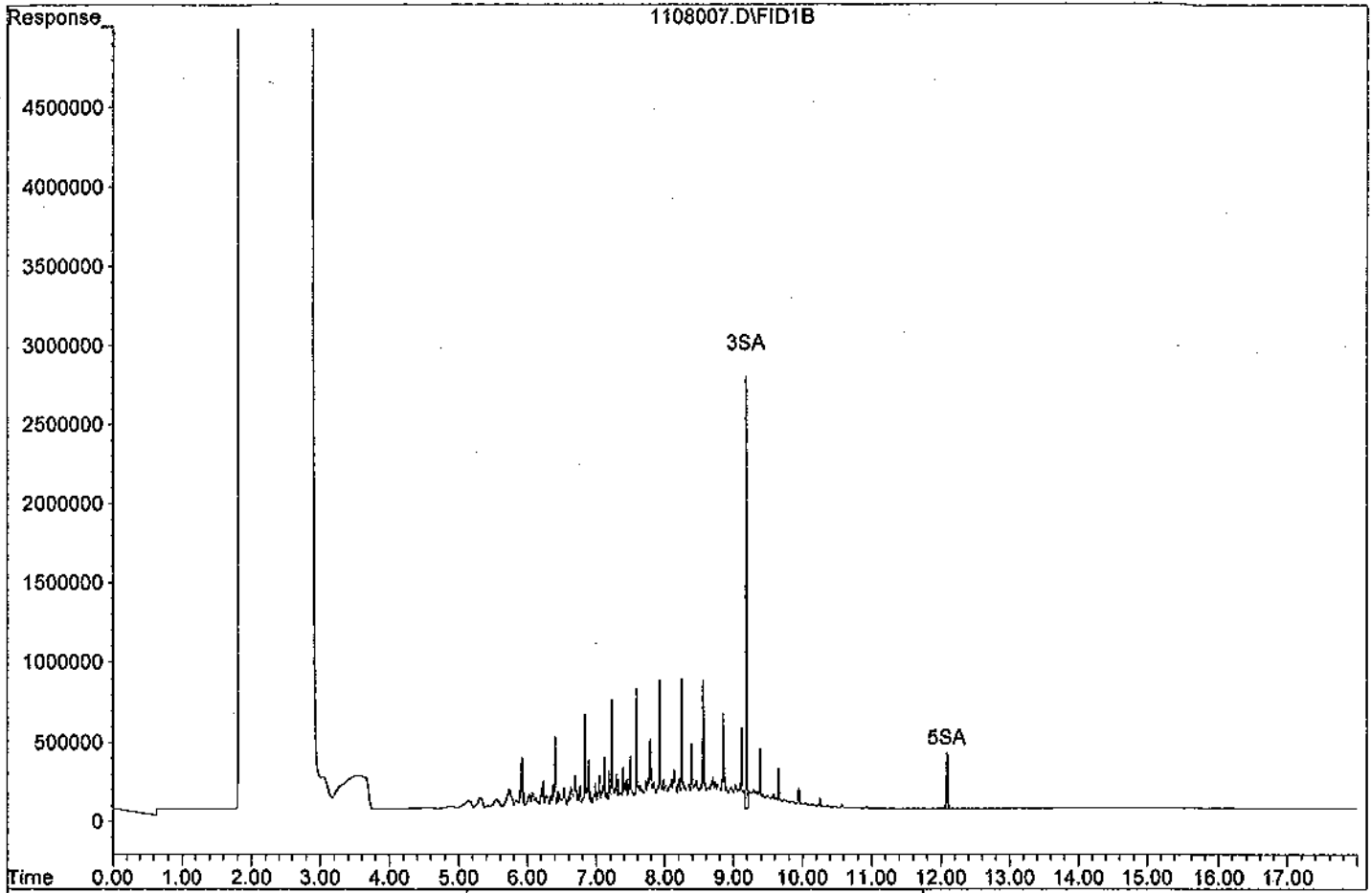
System Monitoring Compounds

3) SA Not Used(S)	9.20	19438997	18.081 ppb
Surrogate Spike 30.000		Recovery =	60.27%
5) SA Not Used2(S)	12.09	4682445	9.451 ppb
Surrogate Spike 30.000		Recovery =	31.50%

Target Compounds

1) HATM Diesel (C10-C28)	9.01	292413883	347.330 ppb
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Data File: G:\APOLLO\DATA\111108\1108007.D
Sample : DIESEL 600/1000



Data File : G:\APOLLO\DATA\111108\1108008.D Vial: 8
 Acq On : 11-8-11 17:01:53 Operator: LAC
 Sample : DIESEL 800/1000 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 10 08:39:08 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

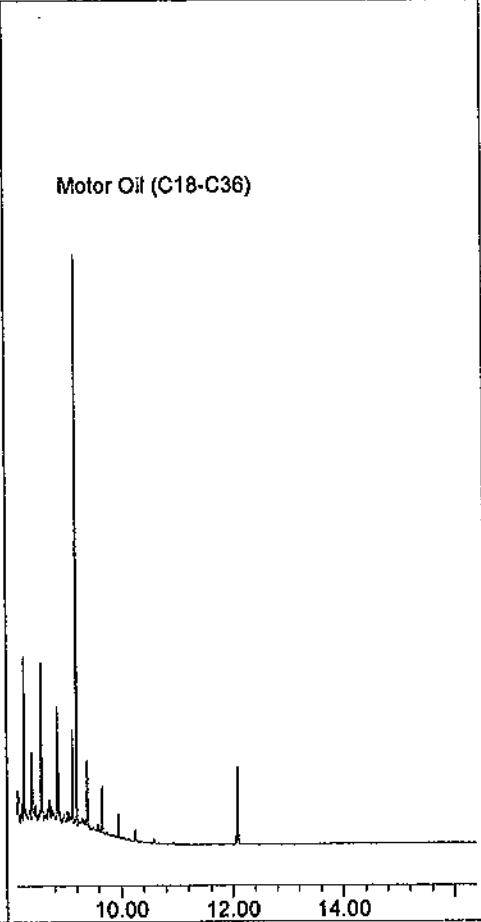
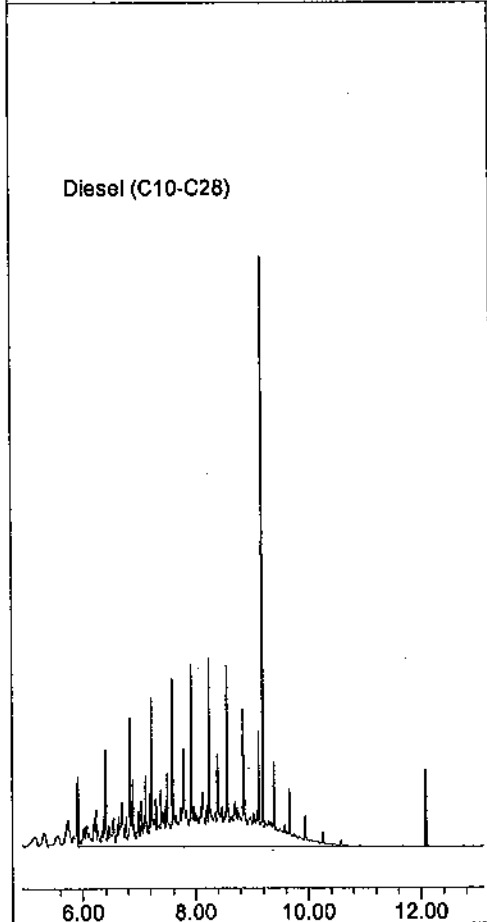
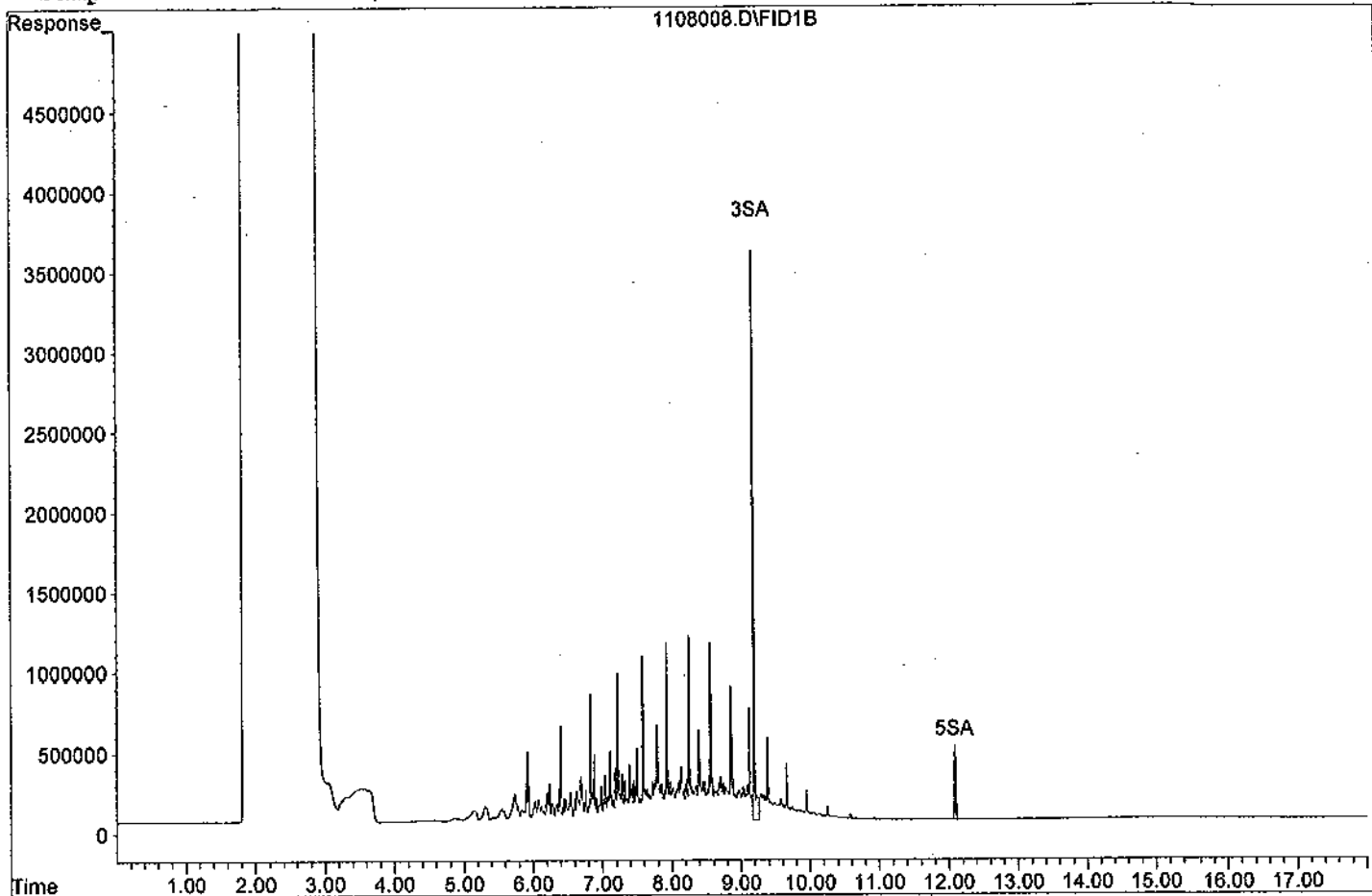
3) SA Not Used(S)	9.20	30682231	28.538 ppb
Surrogate Spike 30.000		Recovery =	95.13%
5) SA Not Used2(S)	12.09	6313667	12.744 ppb
Surrogate Spike 30.000		Recovery =	42.48%

Target Compounds

1) HATM Diesel (C10-C28)	9.01	390470225	463.801 ppb
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Data File: G:\APOLLO\DATA\111108\1108008.D

Sample : DIESEL 800/1000



Data File : G:\APOLLO\DATA\111108\1108009.D Vial: 9
 Acq On : 11-8-11 17:25:32 Operator: LAC
 Sample : DIESEL 1000/1000 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 10 08:39:08 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

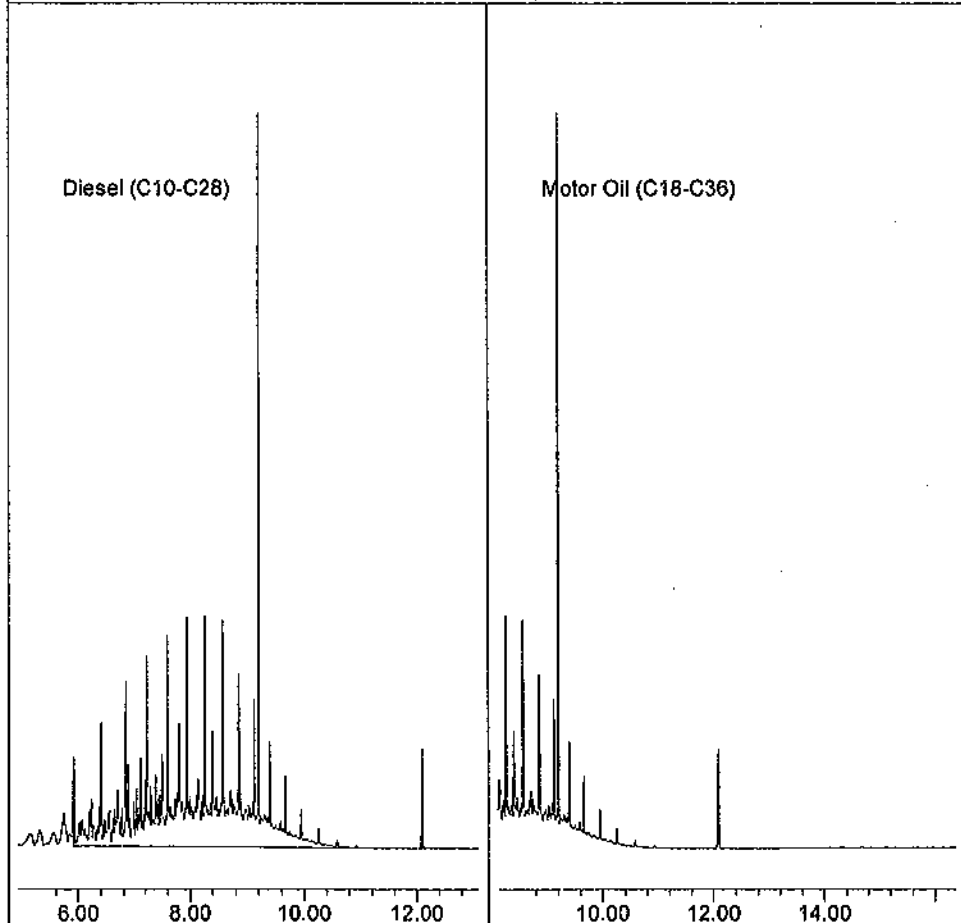
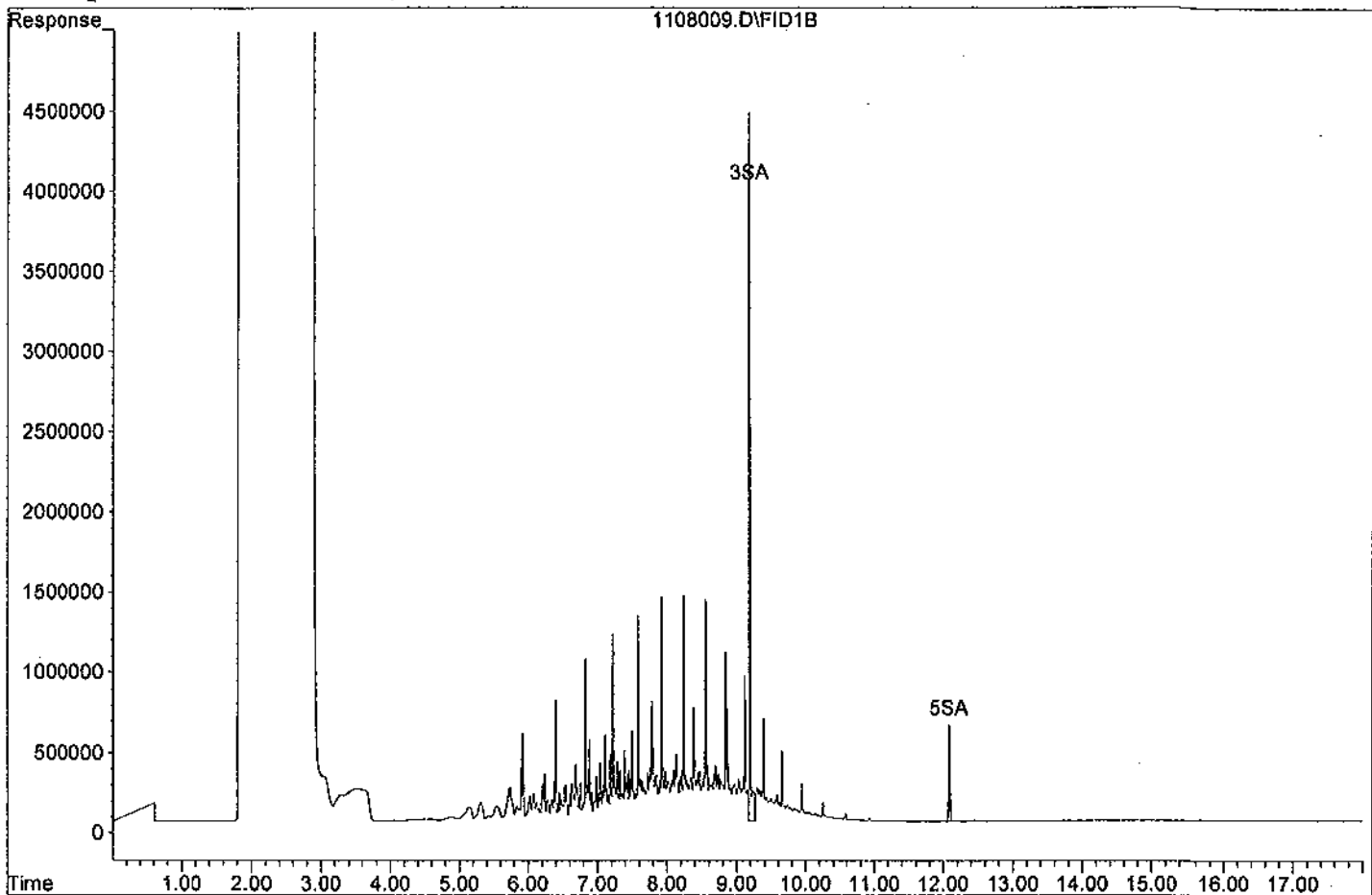
3) SA Not Used(S)	9.20	38756601	36.048 ppb
Surrogate Spike 30.000		Recovery =	120.16%
5) SA Not Used2(S)	12.09	7987688	16.122 ppb
Surrogate Spike 30.000		Recovery =	53.74%

Target Compounds

1) HATM Diesel (C10-C28)	9.01	490402243	582.501 ppb
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Data File: G:\APOLLO\DATA\111108\1108009.D

Sample : DIESEL 1000/1000



Data File : G:\APOLLO\DATA\111108\1108011.D Vial: 11
 Acq On : 11-8-11 18:12:45 Operator: LAC
 Sample : MOTOR OIL 50/1000 11/8/11 Inst : Apollo
 Misc : Mix(B) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 10 08:39:08 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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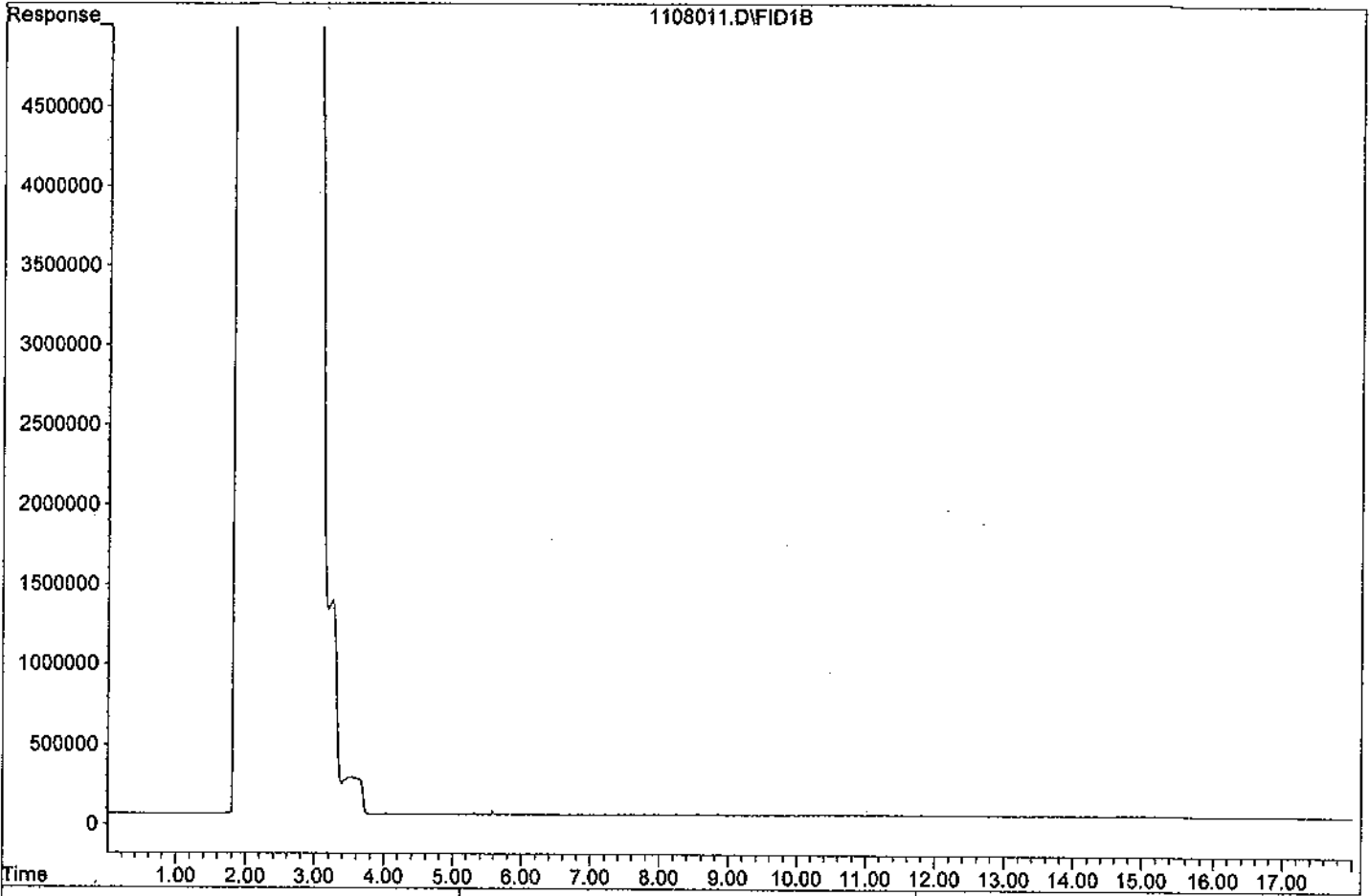
System Monitoring Compounds

Target Compounds

2) HBTM Motor Oil (C18-C36)	12.24	14043686	38.736 ppb
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Data File: G:\APOLLO\DATA\111108\1108011.D

Sample : MOTOR OIL 50/1000 11/8/11



Diesel (C10-C28)

Motor Oil (C18-C36)

6.00 7.00 8.00 9.00 10.00 11.00 12.00

10.00 12.00 14.00 16.00

Data File : G:\APOLLO\DATA\111108\1108012.D Vial: 12
 Acq On : 11-8-11 18:36:14 Operator: LAC
 Sample : MOTOR OIL 100/1000 Inst : Apollo
 Misc : Mix(B) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 10 08:39:08 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

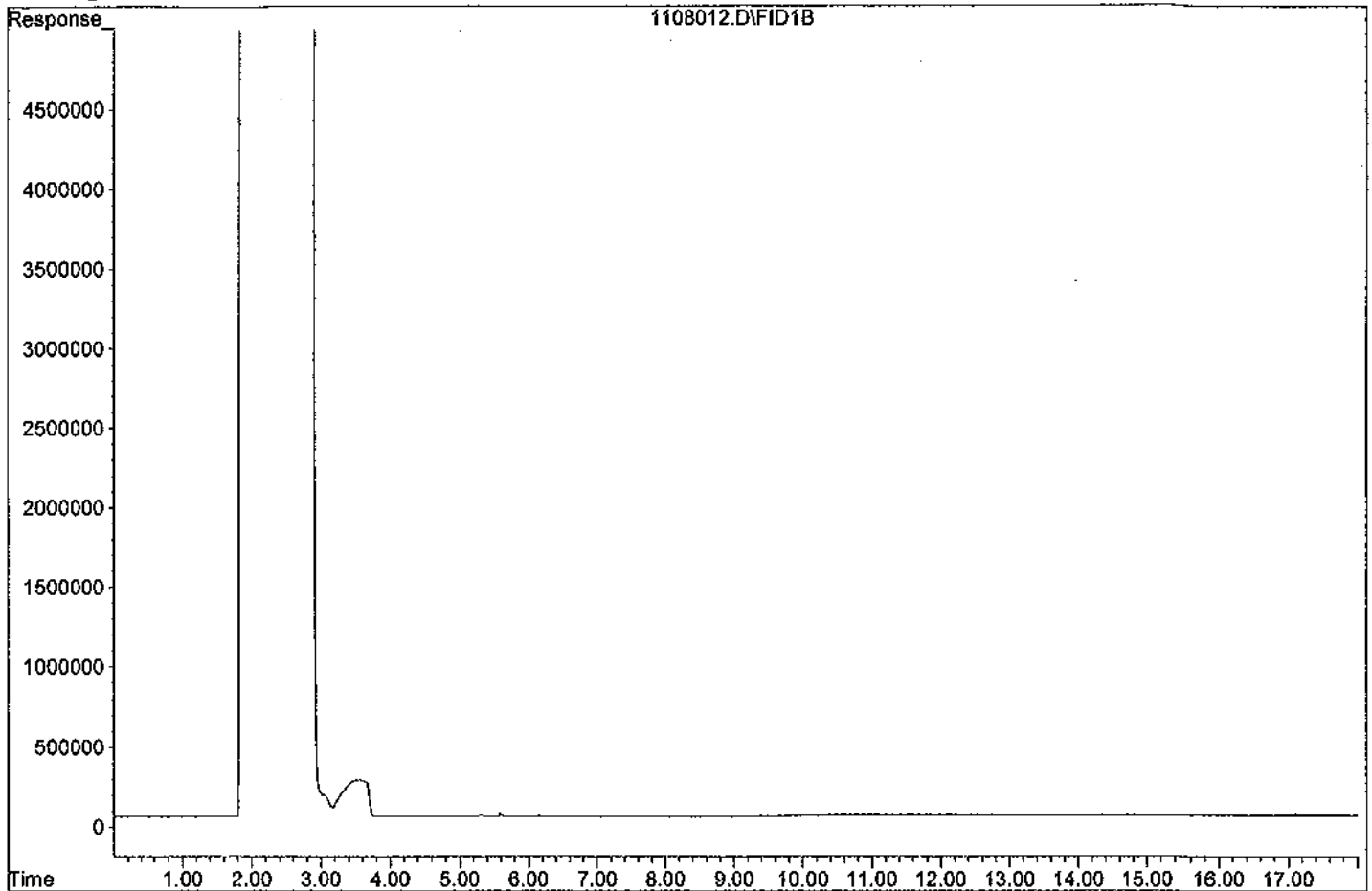
Target Compounds

2) HBTM Motor Oil (C18-C36)	12.24	19926419	54.963 ppb
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Data File: G:\APOLLO\DATA\111108\1108012.D

Sample : MOTOR OIL 100/1000

1108012.D\FID1B



Diesel (C10-C28)

This zoomed-in view shows a single peak at approximately 10.5 minutes with a response of about 1,000,000. The x-axis ranges from 6.00 to 12.00 minutes.

Motor Oil (C18-C36)

This zoomed-in view shows a single peak at approximately 13.5 minutes with a response of about 1,000,000. The x-axis ranges from 10.00 to 16.00 minutes.

Data File : G:\APOLLO\DATA\111108\1108013.D Vial: 13
 Acq On : 11-8-11 18:59:47 Operator: LAC
 Sample : MOTOR OIL 400/1000 Inst : Apollo
 Misc : Mix(B) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 10 08:39:08 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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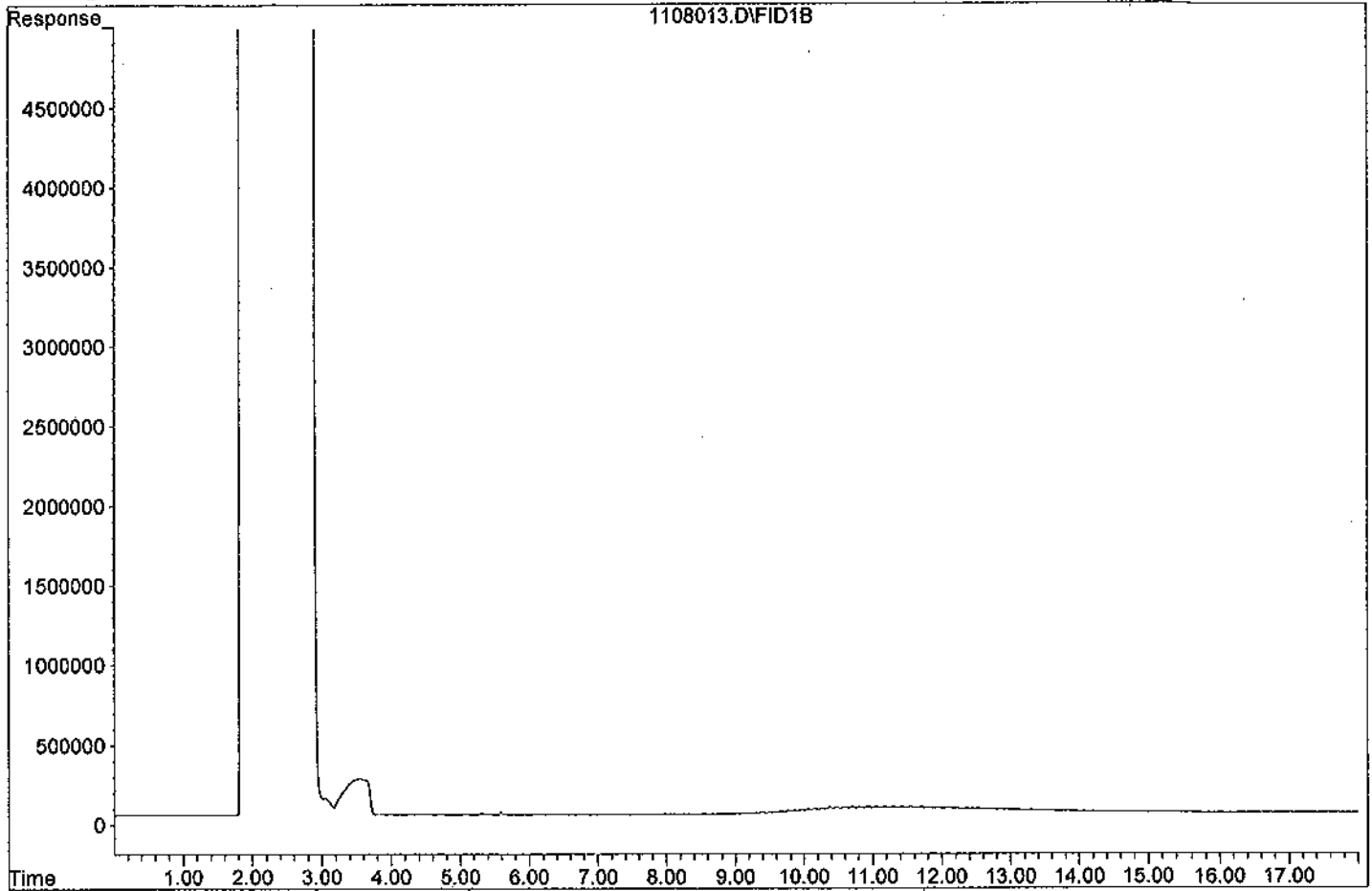
System Monitoring Compounds

Target Compounds

2) HBTM Motor Oil (C18-C36)	12.24	83351892	229.908 ppb
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Quantitation Report

Data File: G:\APOLLO\DATA\111108\1108013.D
Sample : MOTOR OIL 400/1000



Diesel (C10-C28)

Motor Oil (C18-C38)

Data File : G:\APOLLO\DATA\111108\1108014.D Vial: 14
 Acq On : 11-8-11 19:23:20 Operator: LAC
 Sample : MOTOR OIL 600/1000 Inst : Apollo
 Misc : Mix(B) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 10 08:39:08 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

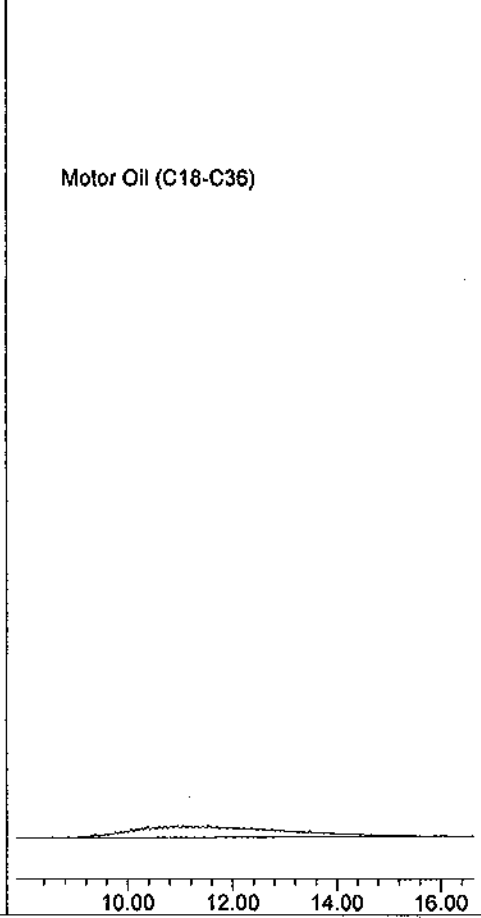
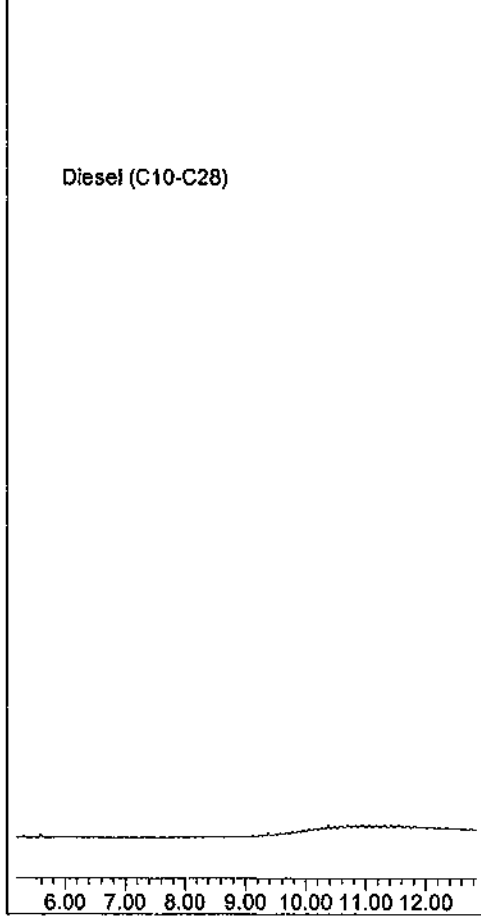
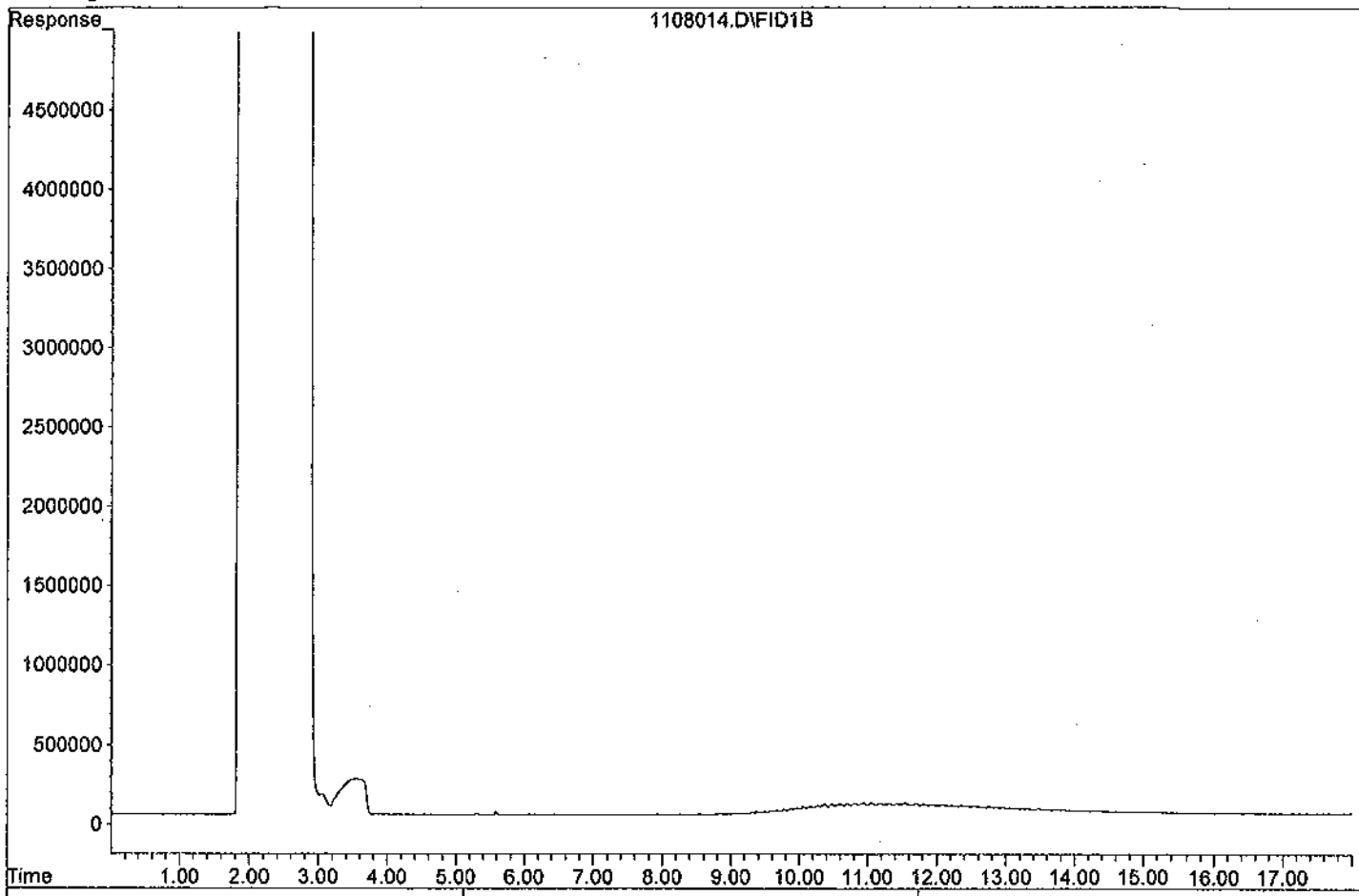
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
Target Compounds			
2) HBTM Motor Oil (C18-C36)	12.24	133423372	368.019 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\111108\1108014.D

Sample : MOTOR OIL 600/1000



Data File : G:\APOLLO\DATA\111108\1108015.D Vial: 15
 Acq On : 11-8-11 19:46:53 Operator: LAC
 Sample : MOTOR OIL 800/1000 Inst : Apollo
 Misc : Mix(B) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 10 08:39:08 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

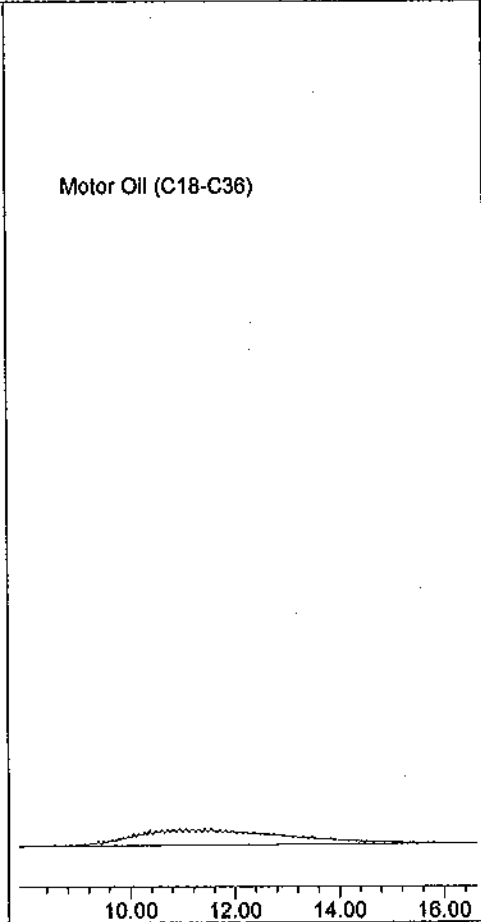
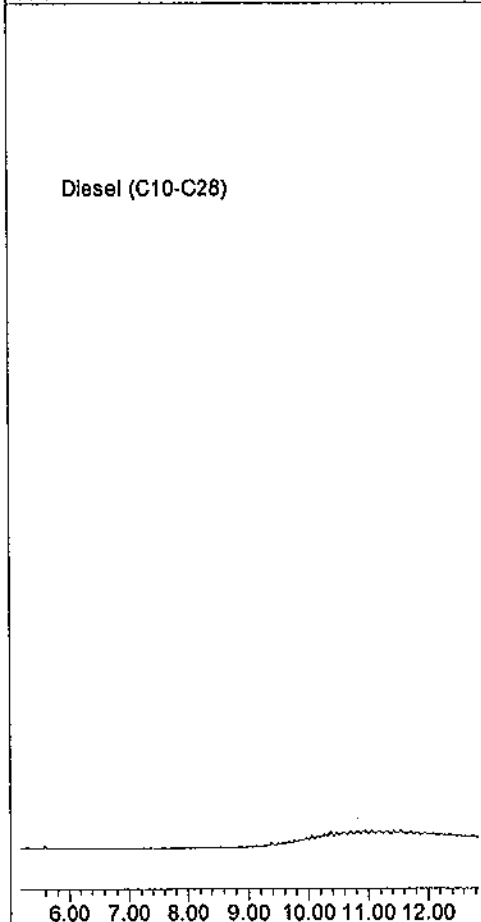
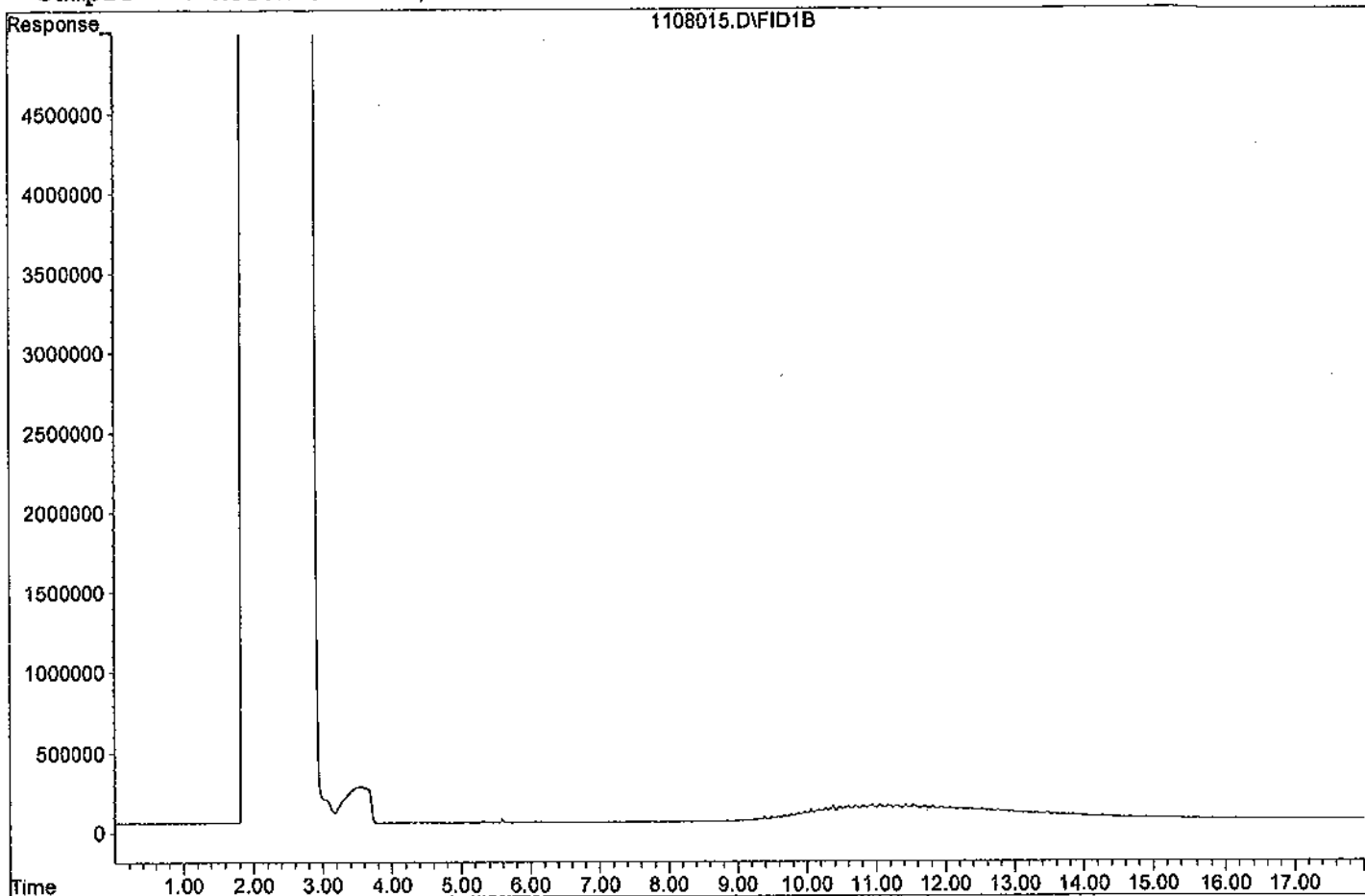
Target Compounds

2) HBTM Motor Oil (C18-C36)	12.24	186462551	514.316 ppb
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Quantitation Report

Data File: G:\APOLLO\DATA\111108\1108015.D

Sample : MOTOR OIL 800/1000



Data File : G:\APOLLO\DATA\111108\1108016.D Vial: 16
 Acq On : 11-8-11 20:10:21 Operator: LAC
 Sample : MOTOR OIL 1000/1000 Inst : Apollo
 Misc : Mix(B) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 10 08:39:08 2011
 Response via : Multiple Level Calibration

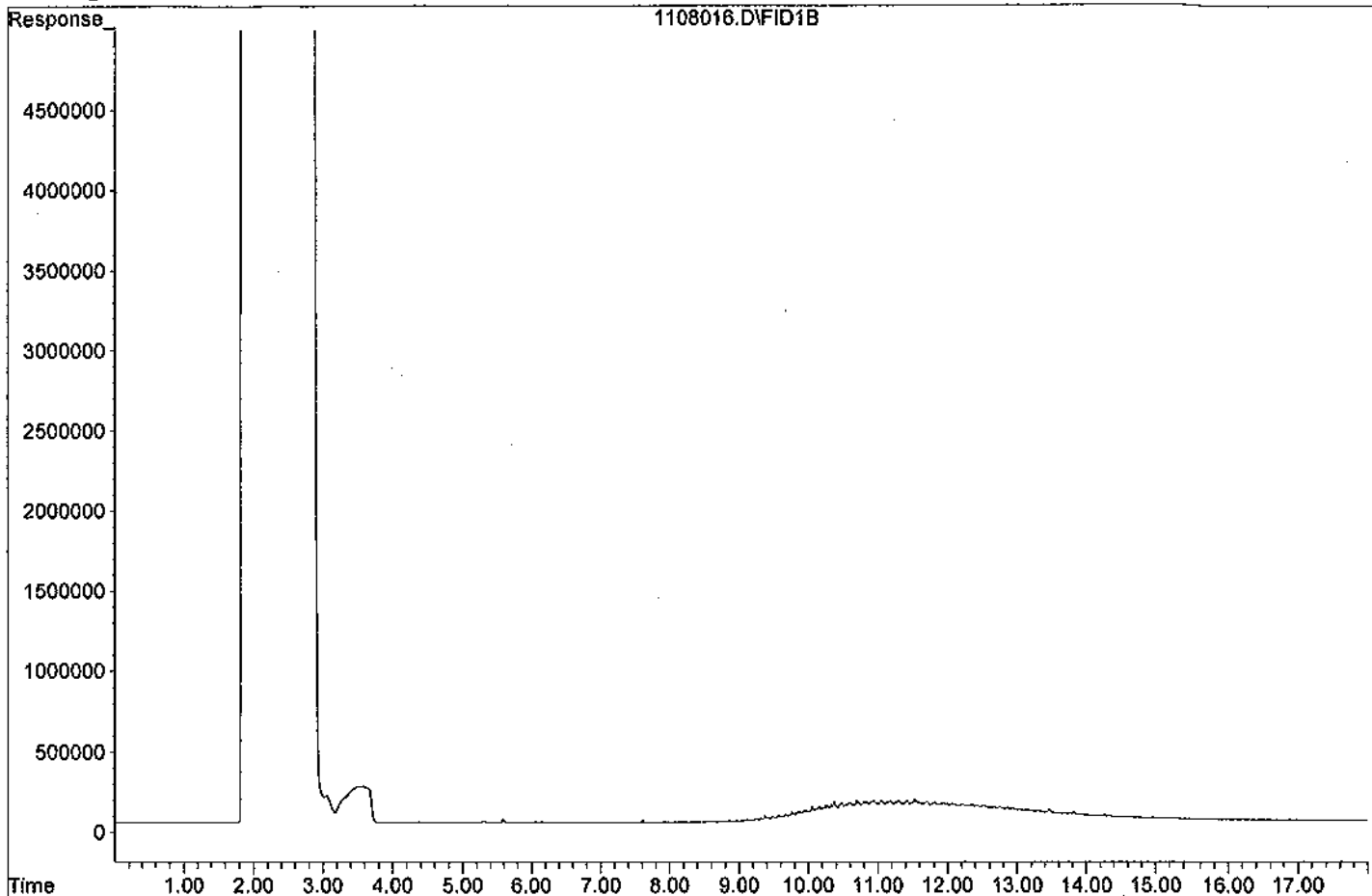
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
Target Compounds			
2) HBTM Motor Oil (C18-C36)	12.24	250746792	691.631 ppb

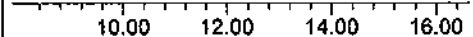
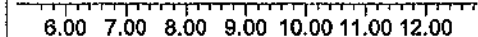
Data File: G:\APOLLO\DATA\111108\1108016.D

Sample : MOTOR OIL 1000/1000



Diesel (C10-C28)

Motor Oil (C18-C36)



Data File : G:\APOLLO\DATA\111108\1108017.D Vial: 17
 Acq On : 11-8-11 20:33:47 Operator: LAC
 Sample : THC SURR 10/1000 11/8/11 Inst : Apollo
 Misc : Mix(C) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 10 08:39:08 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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 System Monitoring Compounds

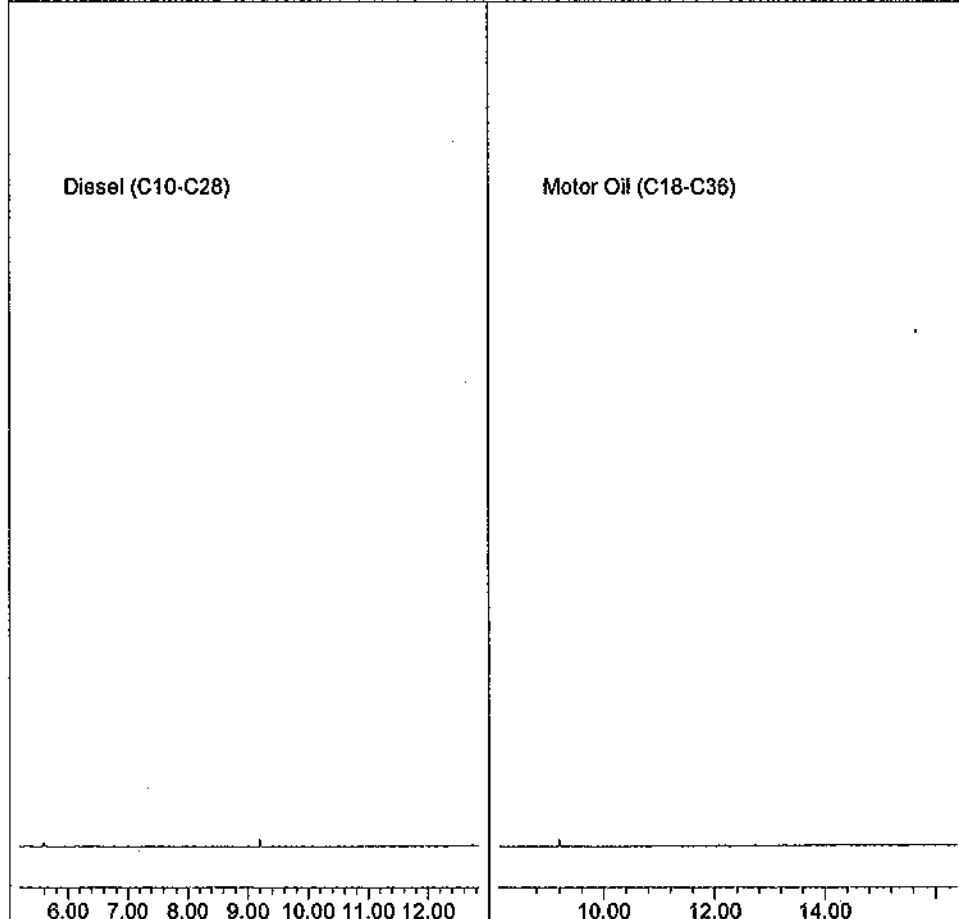
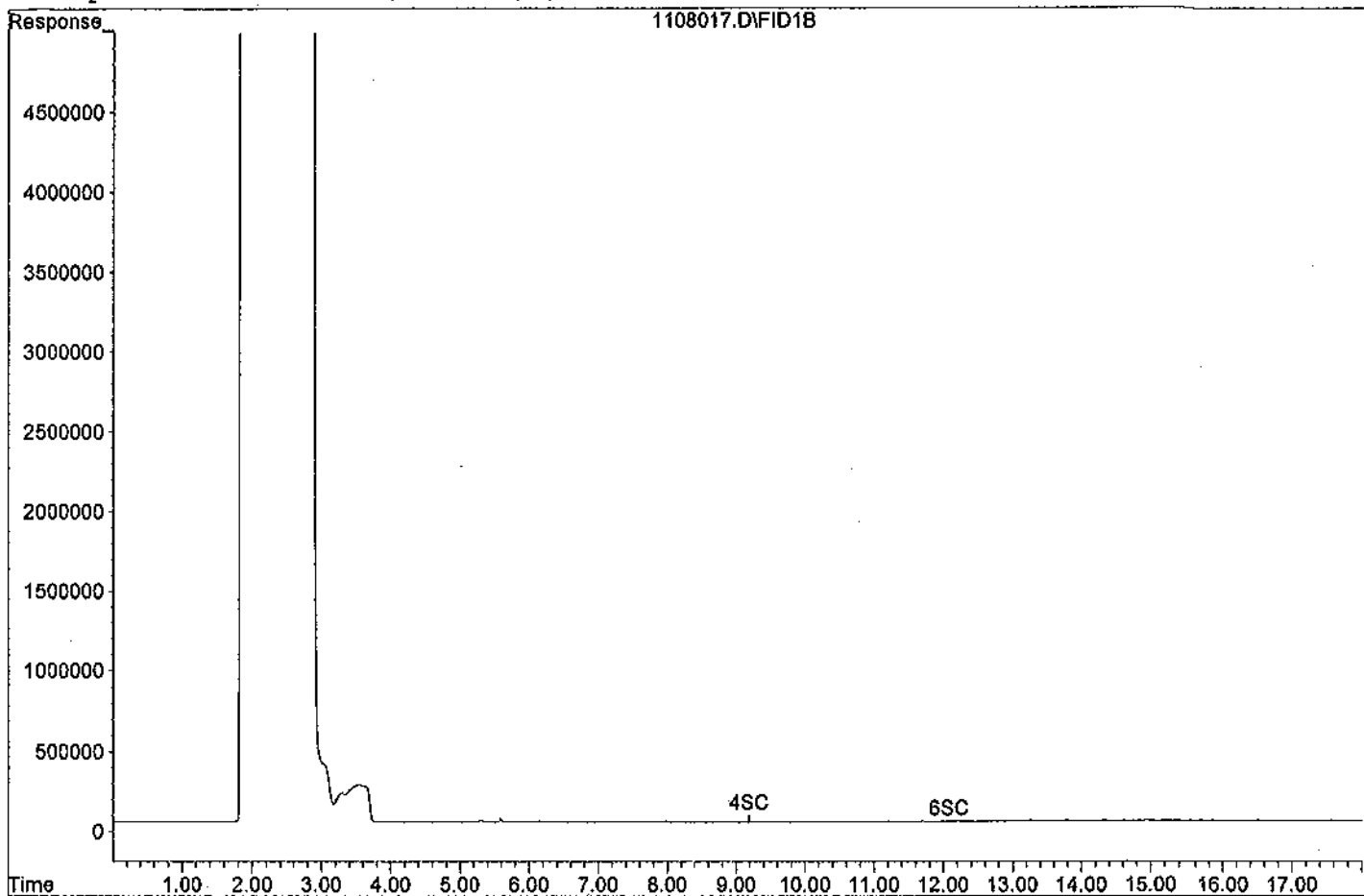
4) SC Ortho-Terphenyl(S)	9.19	292692	0.336 ppb
Surrogate Spike 30.000		Recovery =	1.12%
6) SC Octacosane(S)	12.08	74061	0.159 ppb
Surrogate Spike 30.000		Recovery =	0.53%

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\111108\1108017.D

Sample : THC SURR 10/1000 11/8/11



Data File : G:\APOLLO\DATA\111108\1108018.D Vial: 18
 Acq On : 11-8-11 20:57:14 Operator: LAC
 Sample : THC SURR 100/1000 Inst : Apollo
 Misc : Mix(C) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 10 08:39:08 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

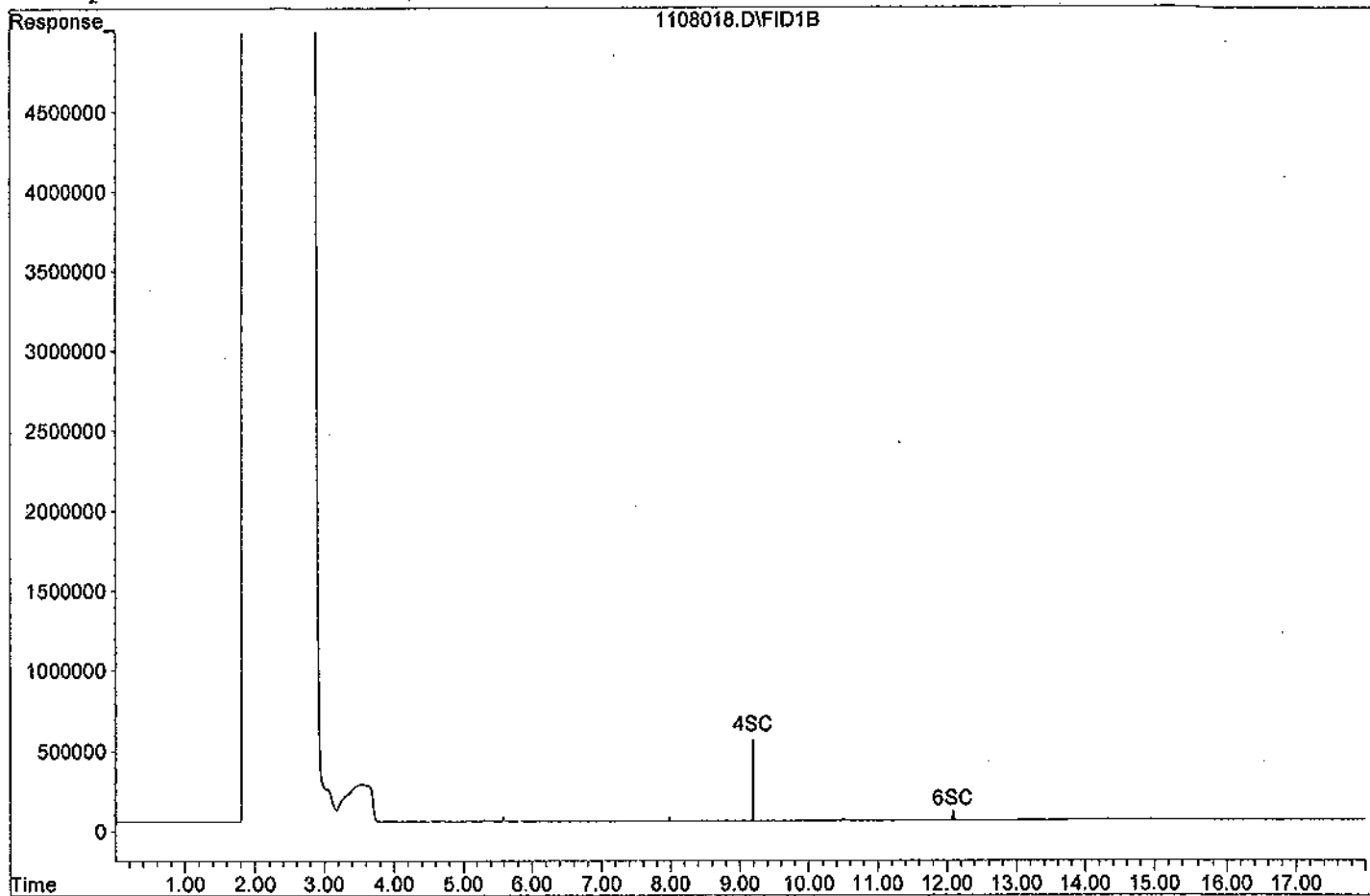
4) SC Ortho-Terphenyl(S)	9.19	3228266	3.702 ppb
Surrogate Spike 30.000		Recovery =	12.34%
6) SC Octacosane(S)	12.08	797717	1.714 ppb
Surrogate Spike 30.000		Recovery =	5.71%

Target Compounds

Data File: G:\APOLLO\DATA\111108\1108018.D

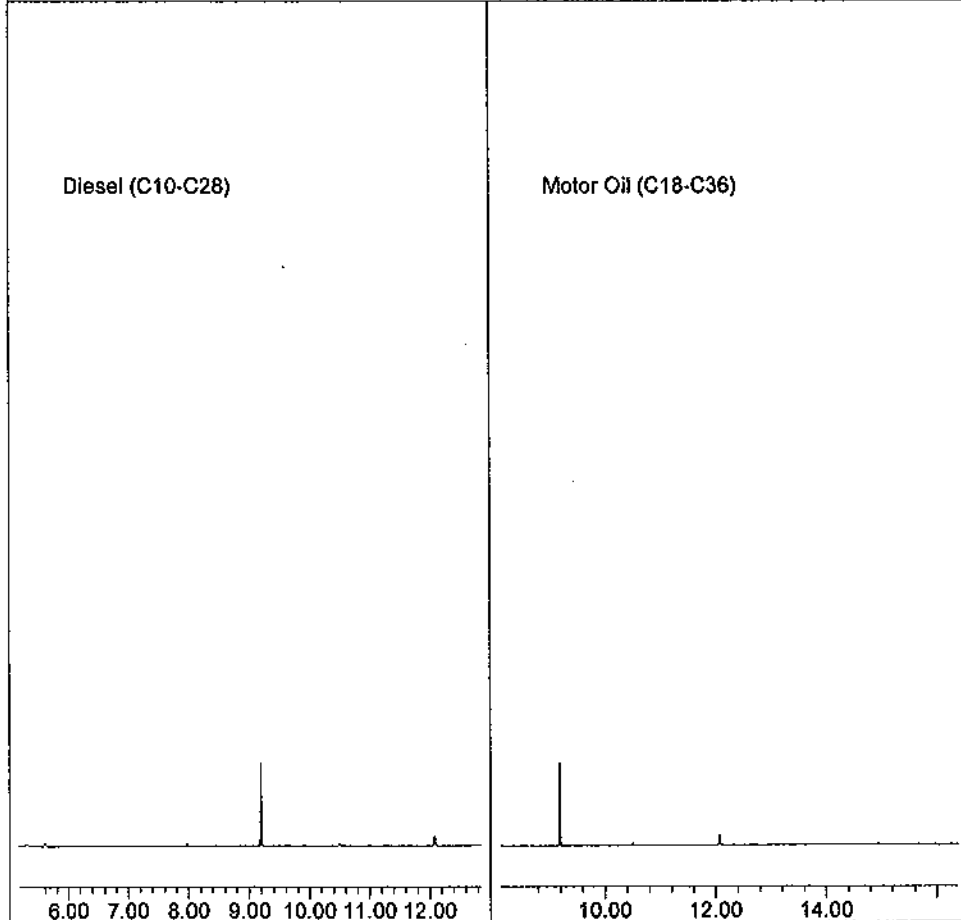
Sample : THC SURR 100/1000

1108018.D\FID1B



Diesel (C10-C28)

Motor Oil (C18-C36)



Data File : G:\APOLLO\DATA\111108\1108019.D Vial: 19
 Acq On : 11-8-11 21:20:36 Operator: LAC
 Sample : THC SURR 400/1000 Inst : Apollo
 Misc : Mix(C) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 10 08:39:08 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

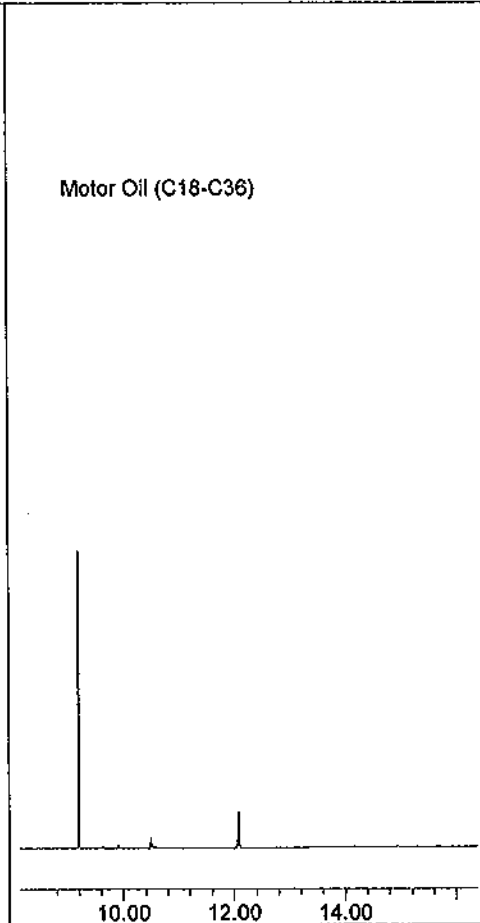
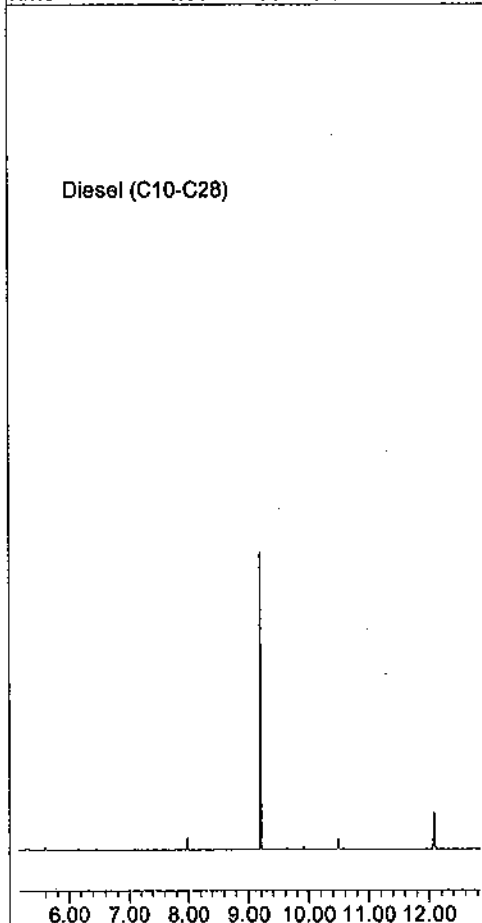
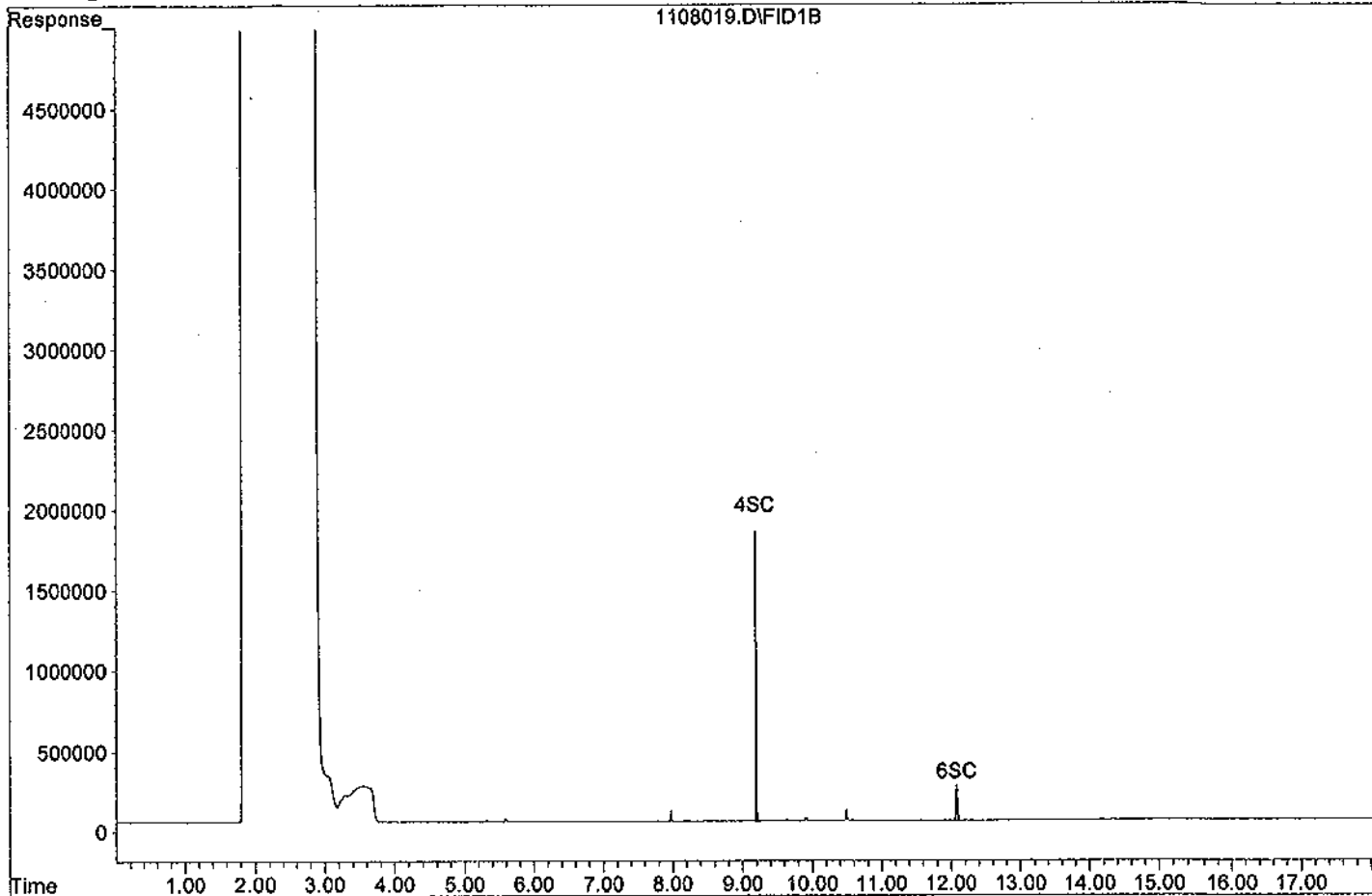
4) SC Ortho-Terphenyl(S)	9.19	11653711	13.365 ppb
Surrogate Spike 30.000		Recovery =	44.55%
6) SC Octacosane(S)	12.08	2944724	6.328 ppb
Surrogate Spike 30.000		Recovery =	21.09%

Target Compounds

Data File: G:\APOLLO\DATA\111108\1108019.D

Sample : THC SURR 400/1000

1108019.D\FID1B



Data File : G:\APOLLO\DATA\111108\1108020.D Vial: 20
 Acq On : 11-8-11 21:43:59 Operator: LAC
 Sample : THC SURR 600/1000 Inst : Apollo
 Misc : Mix(C) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 10 08:39:08 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

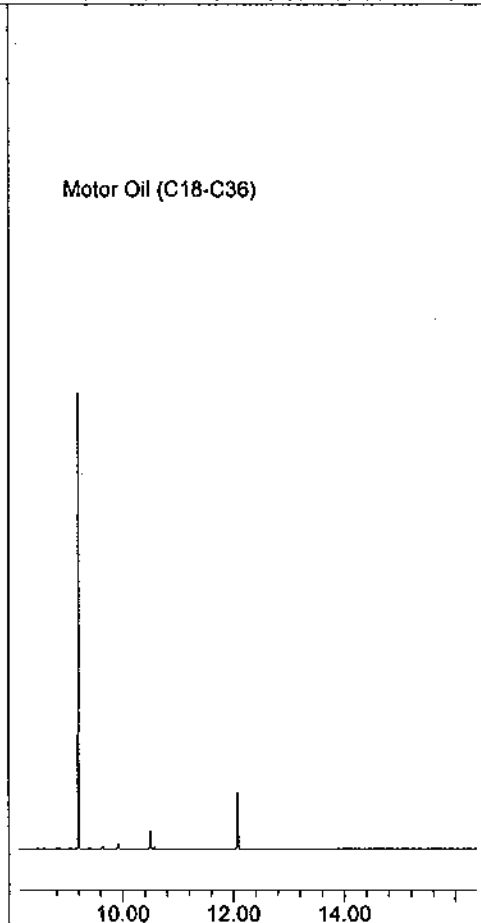
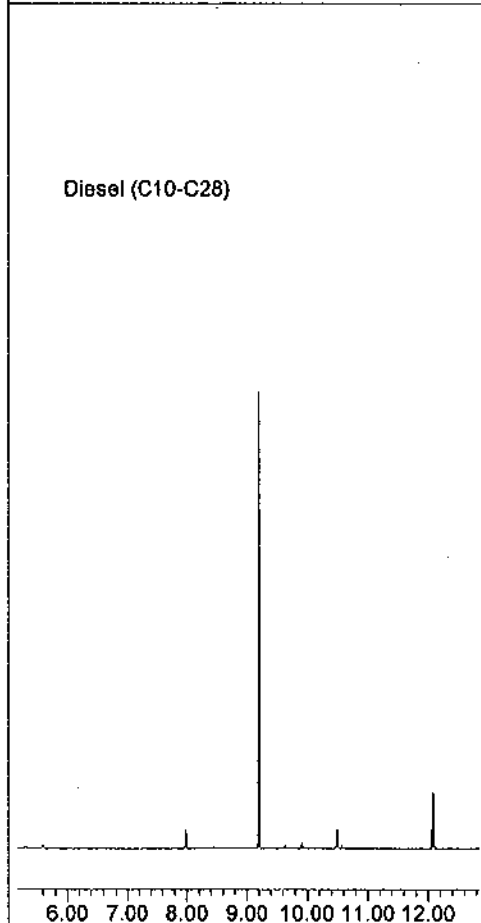
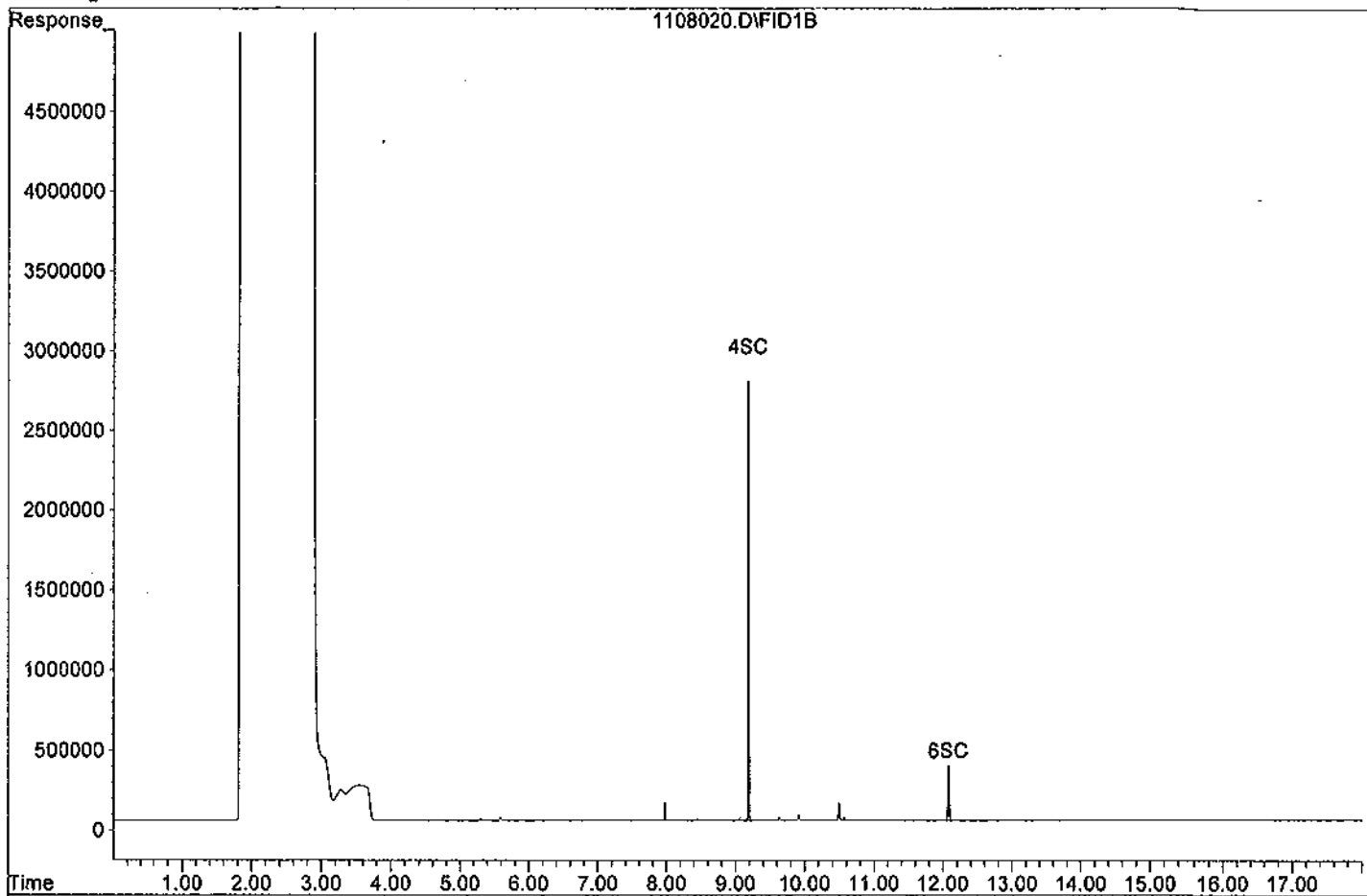
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.19	18494984	21.210 ppb
Surrogate Spike 30.000		Recovery =	70.70%
6) SC Octacosane(S)	12.08	4636415	9.963 ppb
Surrogate Spike 30.000		Recovery =	33.21%

Target Compounds

Data File: G:\APOLLO\DATA\111108\1108020.D

Sample : THC SURR 600/1000



Data File : G:\APOLLO\DATA\111108\1108021.D Vial: 21
 Acq On : 11-8-11 22:07:20 Operator: LAC
 Sample : THC SURR 800/1000 Inst : Apollo
 Misc : Mix(C) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 10 08:39:08 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

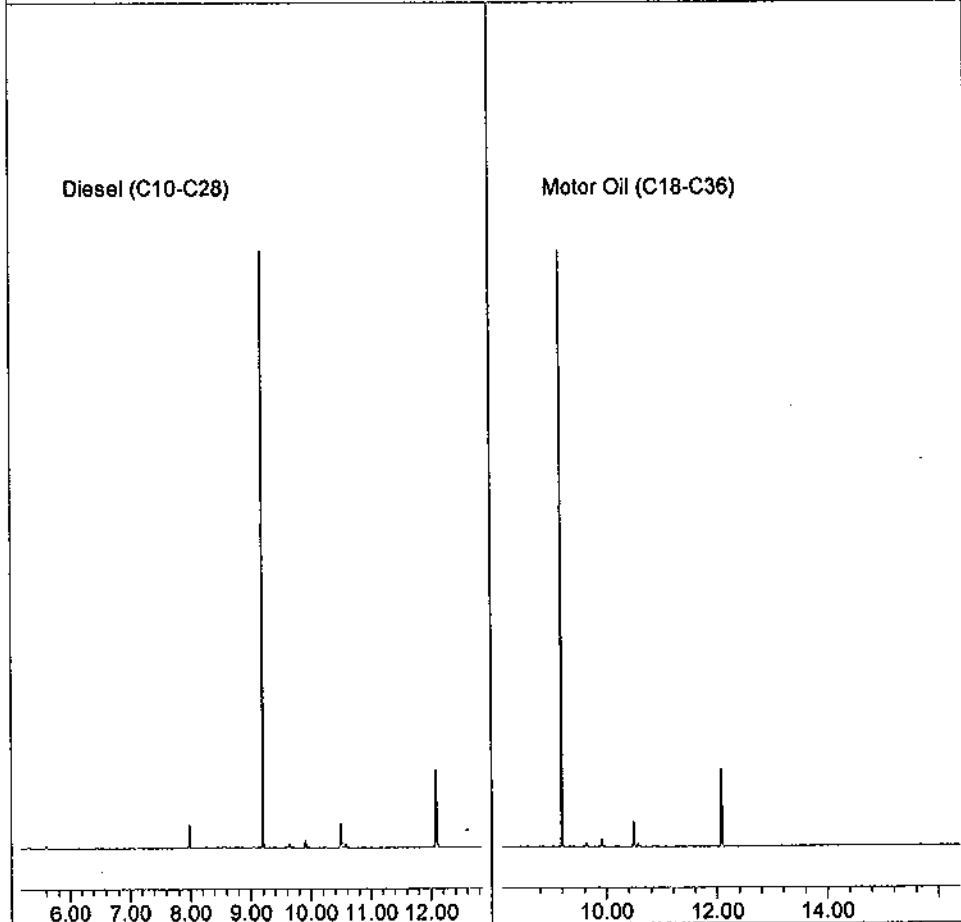
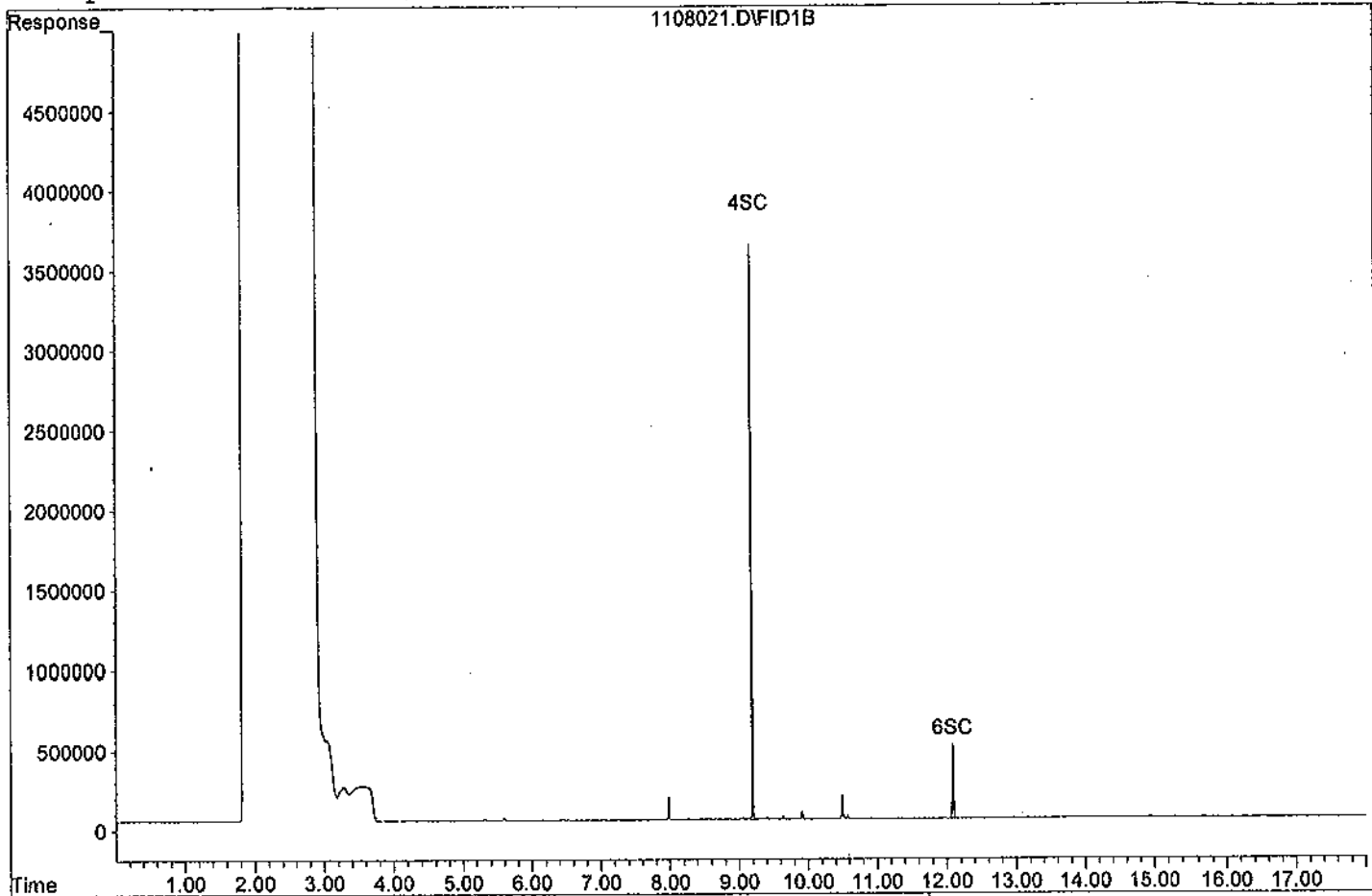
System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.20	24081673	27.617 ppb
Surrogate Spike 30.000		Recovery =	92.06%
6) SC Octacosane(S)	12.09	6191678	13.305 ppb
Surrogate Spike 30.000		Recovery =	44.35%

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\111108\1108021.D

Sample : THC SURR 800/1000



Data File : G:\APOLLO\DATA\111108\1108022.D Vial: 22
 Acq On : 11-8-11 22:30:39 Operator: LAC
 Sample : THC SURR 1000/1000 Inst : Apollo
 Misc : Mix(C) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 10 08:39:08 2011
 Response via : Multiple Level Calibration

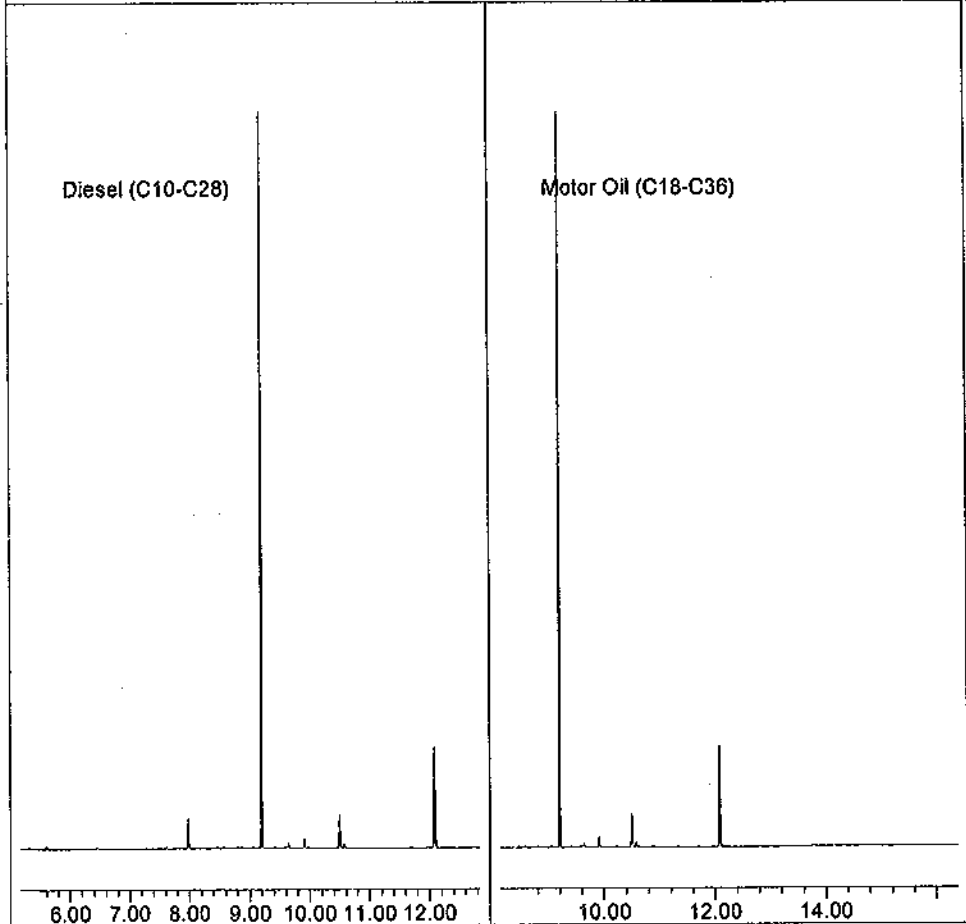
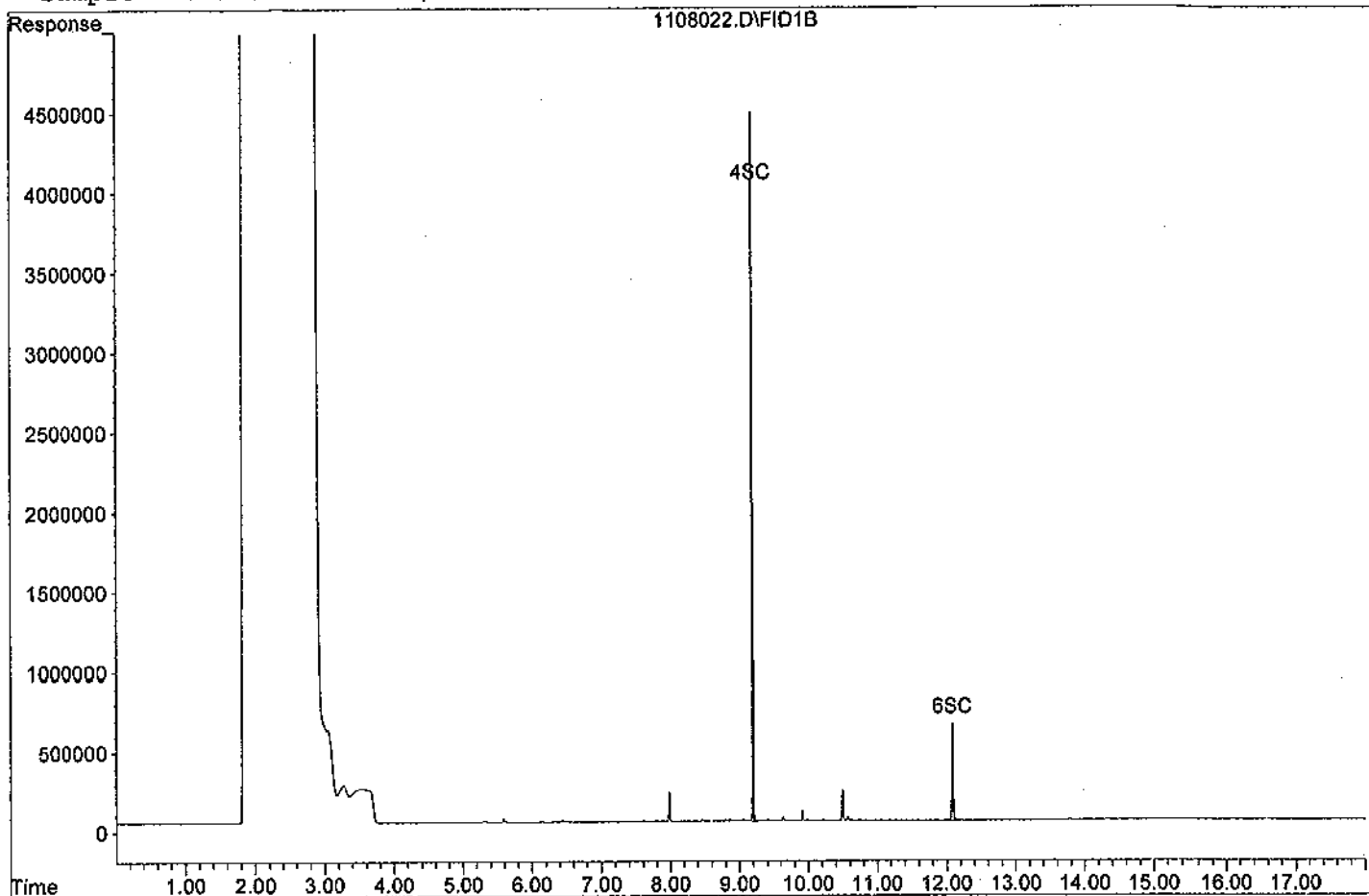
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.20	30506918	34.986 ppb
Surrogate Spike 30.000		Recovery =	116.62%
6) SC Octacosane(S)	12.09	7943255	17.069 ppb
Surrogate Spike 30.000		Recovery =	56.90%

Target Compounds

Data File: G:\APOLLO\DATA\111108\1108022.D
Sample : THC SURR 1000/1000



Data File : G:\APOLLO\DATA\111108\1108069.D Vial: 69
 Acq On : 11-9-11 17:18:58 Operator: LAC
 Sample : DIESEL 10/1000 11/8/11 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 10 8:37 2011 Quant Results File: TPH1108.RES

Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 10 08:39:08 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
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System Monitoring Compounds

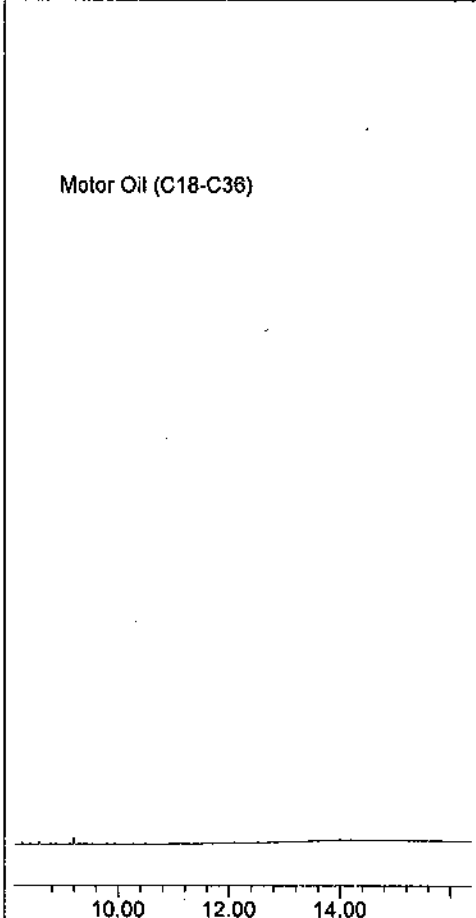
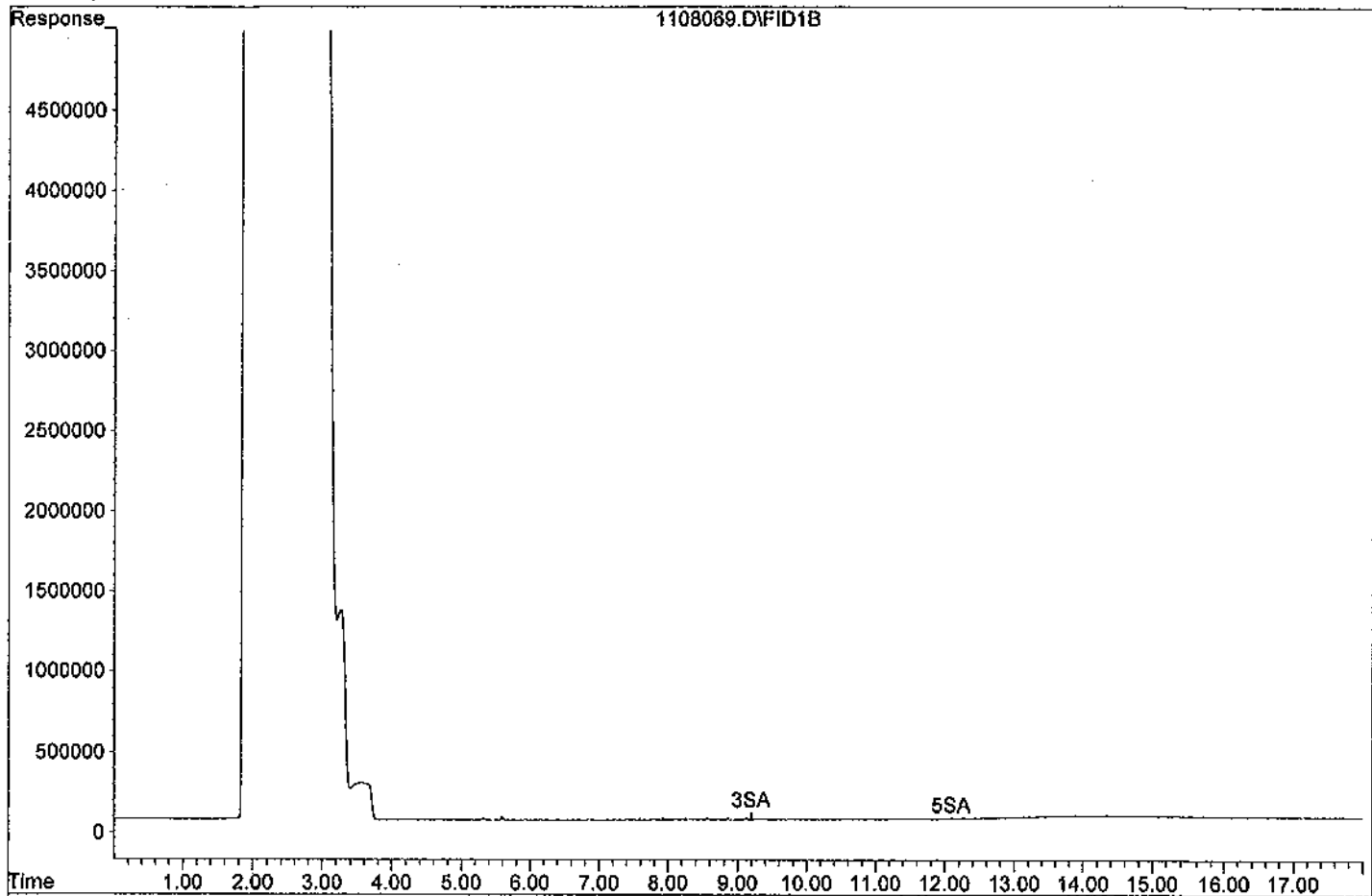
3) SA Not Used(S)	9.20	302444	0.281 ppb
Surrogate Spike 30.000	Recovery	=	0.94%
5) SA Not Used2(S)	12.10	625179	1.262 ppb
Surrogate Spike 30.000	Recovery	=	4.21%

Target Compounds

1) HATM Diesel (C10-C28)	9.01	12262633	14.566 ppb
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Data File: G:\APOLLO\DATA\111108\1108069.D

Sample : DIESEL 10/1000 11/8/11



TPH Extractables
TPH1108

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: 66186
Date Analyzed: 11/09/11
Instrument: Apollo
Initial Cal. Date: 11/08/11
Data File: 1108070.D

	Compound	MEAN	CCRF	%D	%Drift
1	HATM Diesel (C10-C28)	305473	233788	23	HATML 5.1
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40	Average			23.0	

Data File : G:\APOLLO\DATA\111108\1108070.D Vial: 70
 Acq On : 11-9-11 17:42:38 Operator: LAC
 Sample : DIESEL 400 2ND SRC 11/8/11 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 10 8:39 2011 Quant Results File: TPH1108.RES

Method : G:\APOLLO\DATA\111108\TPH1108.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Thu Nov 10 08:39:08 2011
 Response via : Multiple Level Calibration

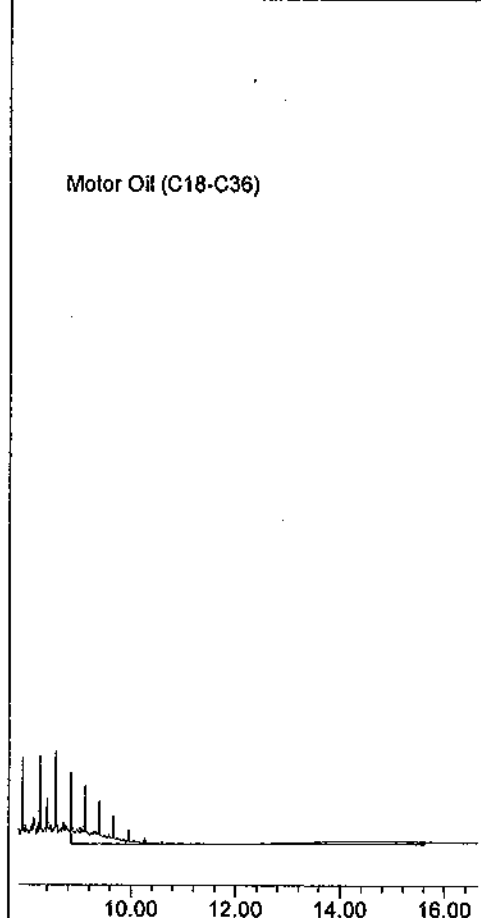
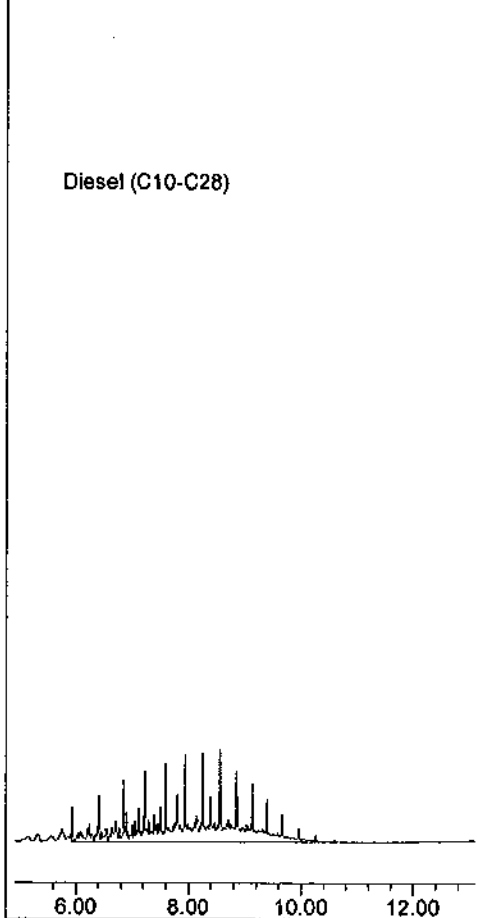
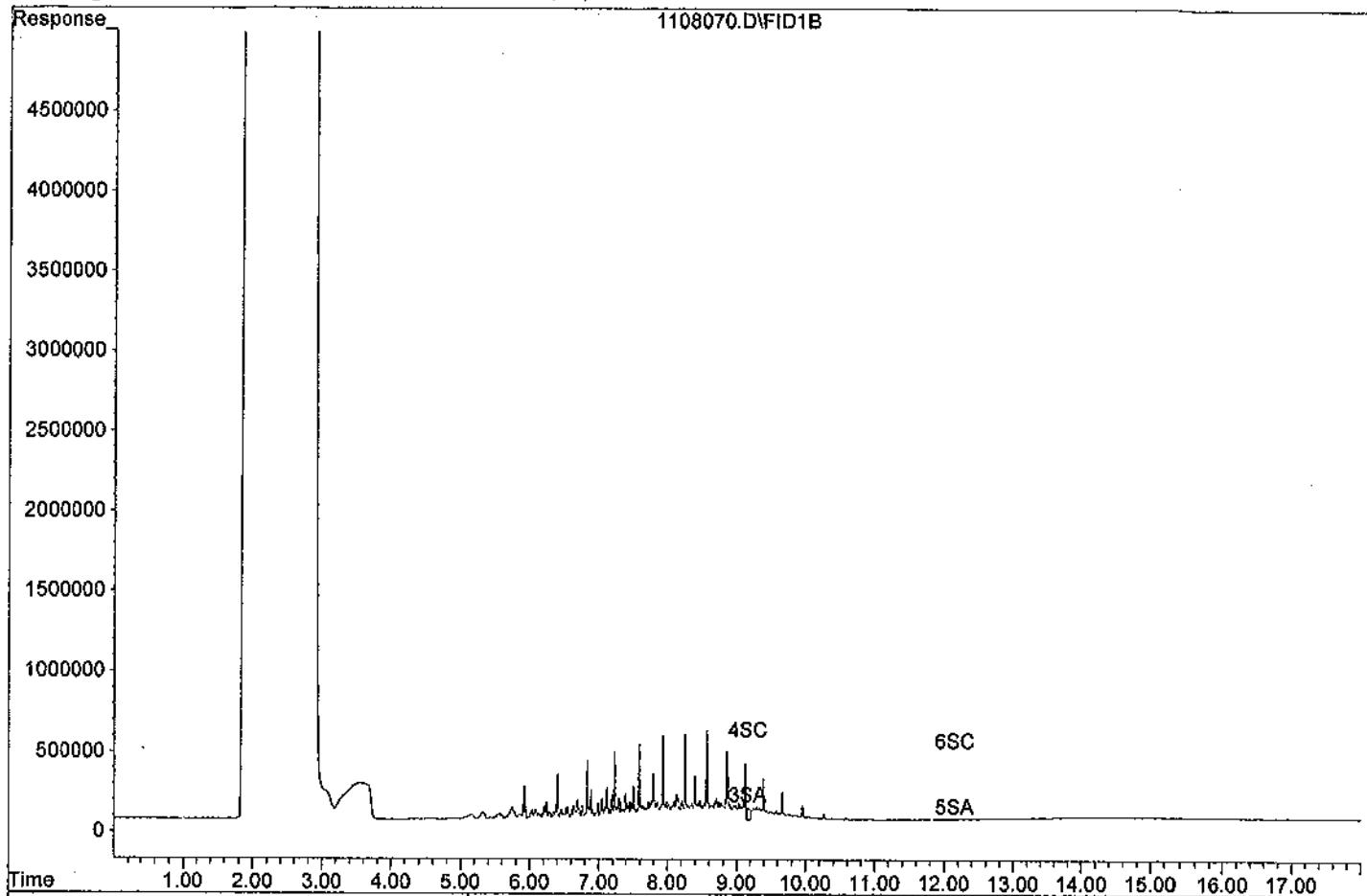
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Not Used(S)	9.17	2636236	3.884 ppb
Surrogate Spike 30.000		Recovery =	12.95%
4) SC Ortho-Terphenyl(S)	9.17	2636236	4.343 ppb
Surrogate Spike 30.000		Recovery =	14.48%
5) SA Not Used2(S)	12.16	136311	0.865 ppb
Surrogate Spike 30.000		Recovery =	2.88%
6) SC Octacosane(S)	12.16	136311	0.886 ppb
Surrogate Spike 30.000		Recovery =	2.95%
Target Compounds			
1) HATM Diesel (C10-C28)	9.01	187030011	379.546 ppb
2) HBTM Motor Oil (C18-C36)	12.24	65049118	279.838 ppb

Data File: G:\APOLLO\DATA\111108\1108070.D

Sample : DIESEL 400 2ND SRC 11/8/11



TPH Extractables
TPH1108

Form 7
Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: 66186
Date Analyzed: 11/11/11
Instrument: Apollo
Initial Cal. Date: 11/08/11
Data File: 1110047.D

		Compound	MEAN	CCRF	%D		%Drift
1	HATM	Diesel (C10-C28)	305473	256572	16	HATML	4.3
2							
3							
4							
5							
6							
7							
8							
9							
10							
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40							

Average

16.0

Data File : G:\APOLLO\DATA\111110\1110047.D Vial: 47
 Acq On : 11-11-11 4:07:11 Operator: LAC
 Sample : DIESEL 400/1000 11/8/11 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 11 13:41 2011 Quant Results File: TPH1108.RES

Method : G:\APOLLO\DATA\111110\TPH1108.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Nov 14 13:54:20 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

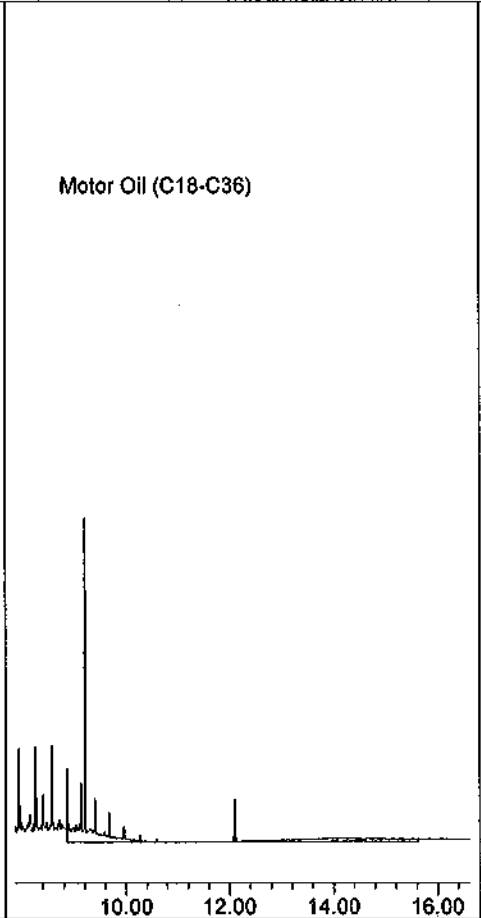
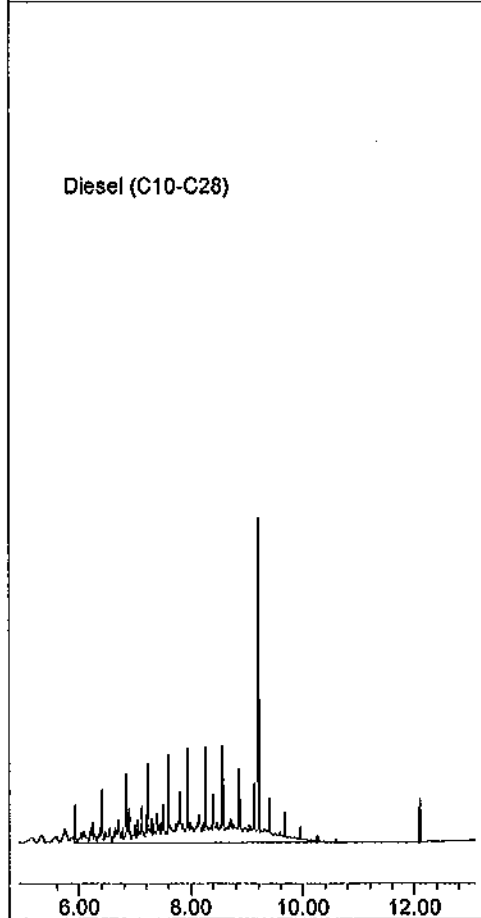
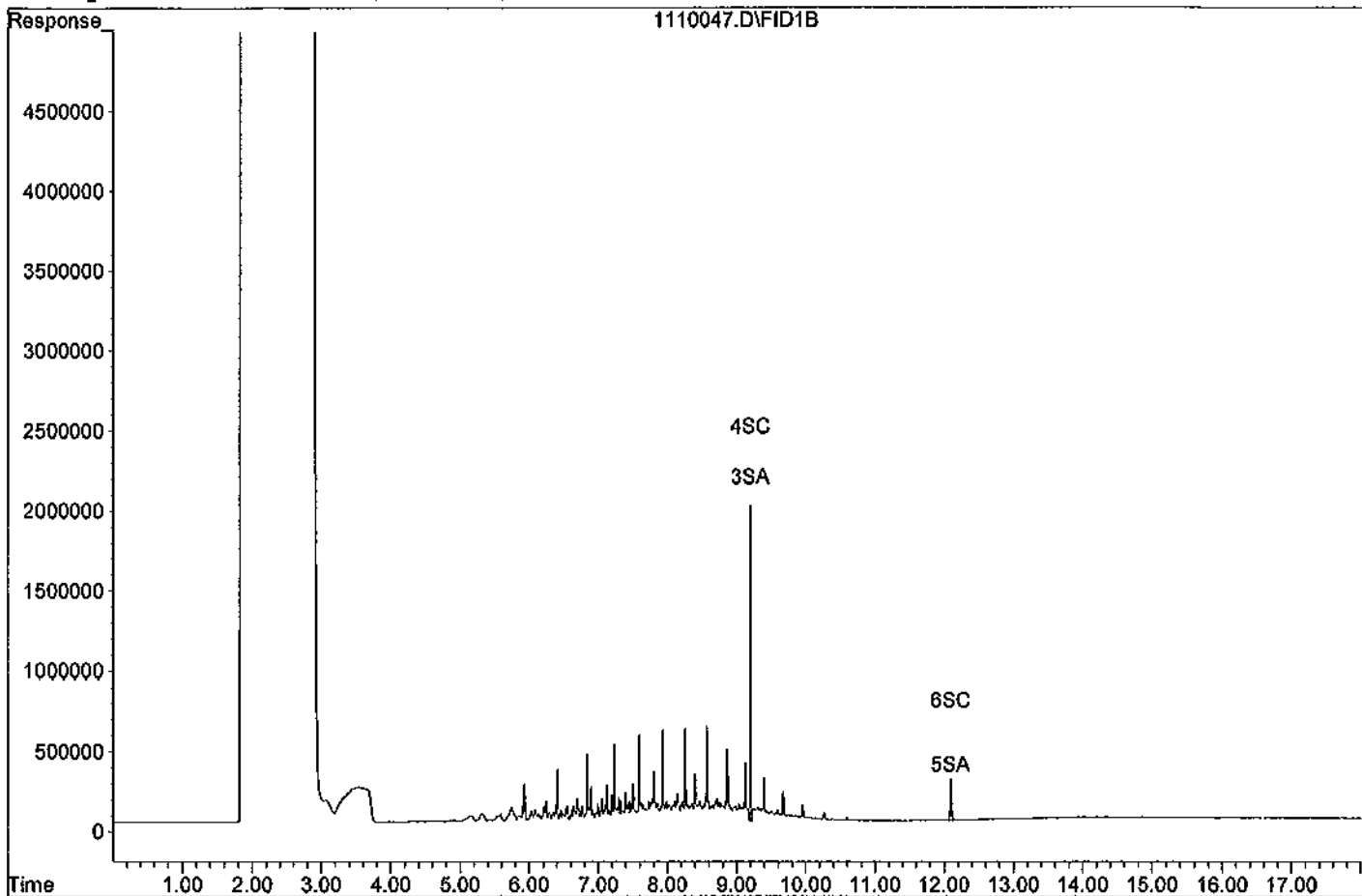
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Not Used(S)	9.20	13963929	20.573 ppb
Surrogate Spike 30.000		Recovery =	68.58%
4) SC Ortho-Terphenyl(S)	9.20	13963929	23.002 ppb
Surrogate Spike 30.000		Recovery =	76.67%
5) SA Not Used2(S)	12.10	3538118	22.439 ppb
Surrogate Spike 30.000		Recovery =	74.80%
6) SC Octacosane(S)	12.10	3538118	22.997 ppb
Surrogate Spike 30.000		Recovery =	76.66%
Target Compounds			
1) HATM Diesel (C10-C28)	9.01	205257553	417.121 ppb
2) HBTM Motor Oil (C18-C36)	12.24	71360796	306.991 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\111110\1110047.D

Sample : DIESEL 400/1000 11/8/11



Data File : G:\APOLLO\DATA\111110\1110059.D Vial: 59
 Acq On : 11-11-11 8:50:25 Operator: LAC
 Sample : DIESEL 400/1000 11/8/11 Inst : Apollo
 Misc : Mix(A) Multiplr: 1.00
 IntFile : events.e
 Quant Time: Nov 14 11:26 2011 Quant Results File: TPH1108.RES

Method : G:\APOLLO\DATA\111110\TPH1108.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Nov 14 13:54:20 2011
 Response via : Multiple Level Calibration

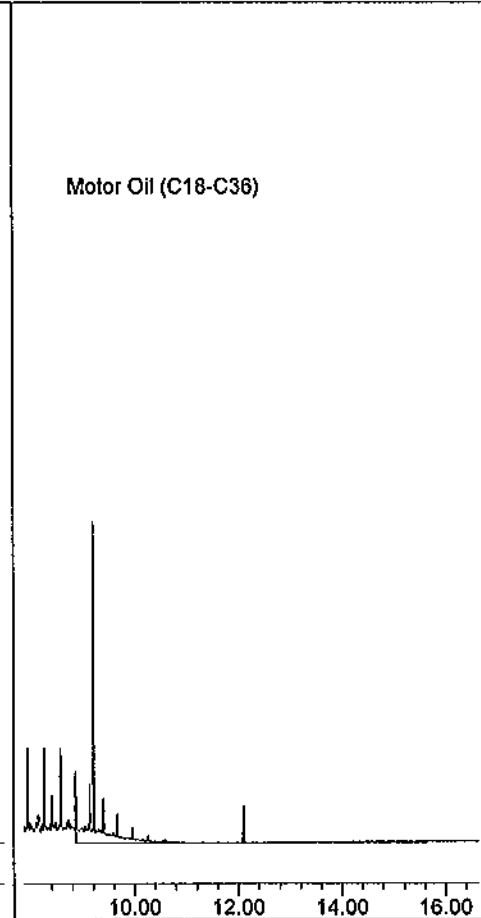
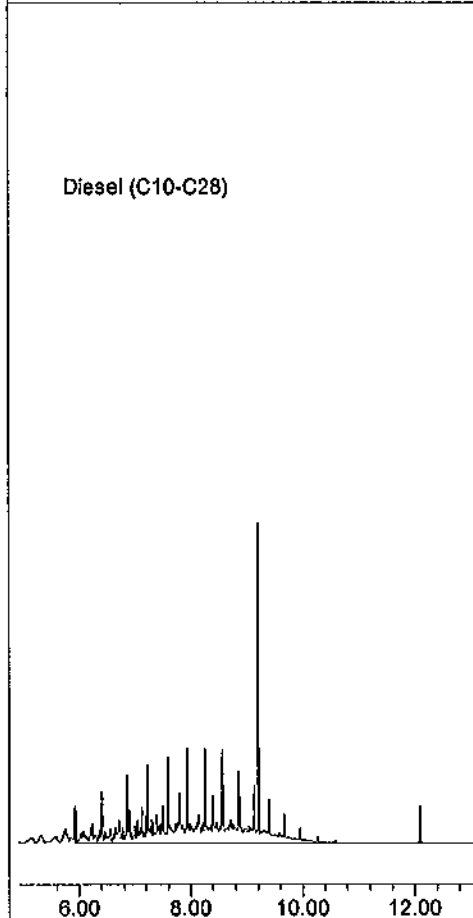
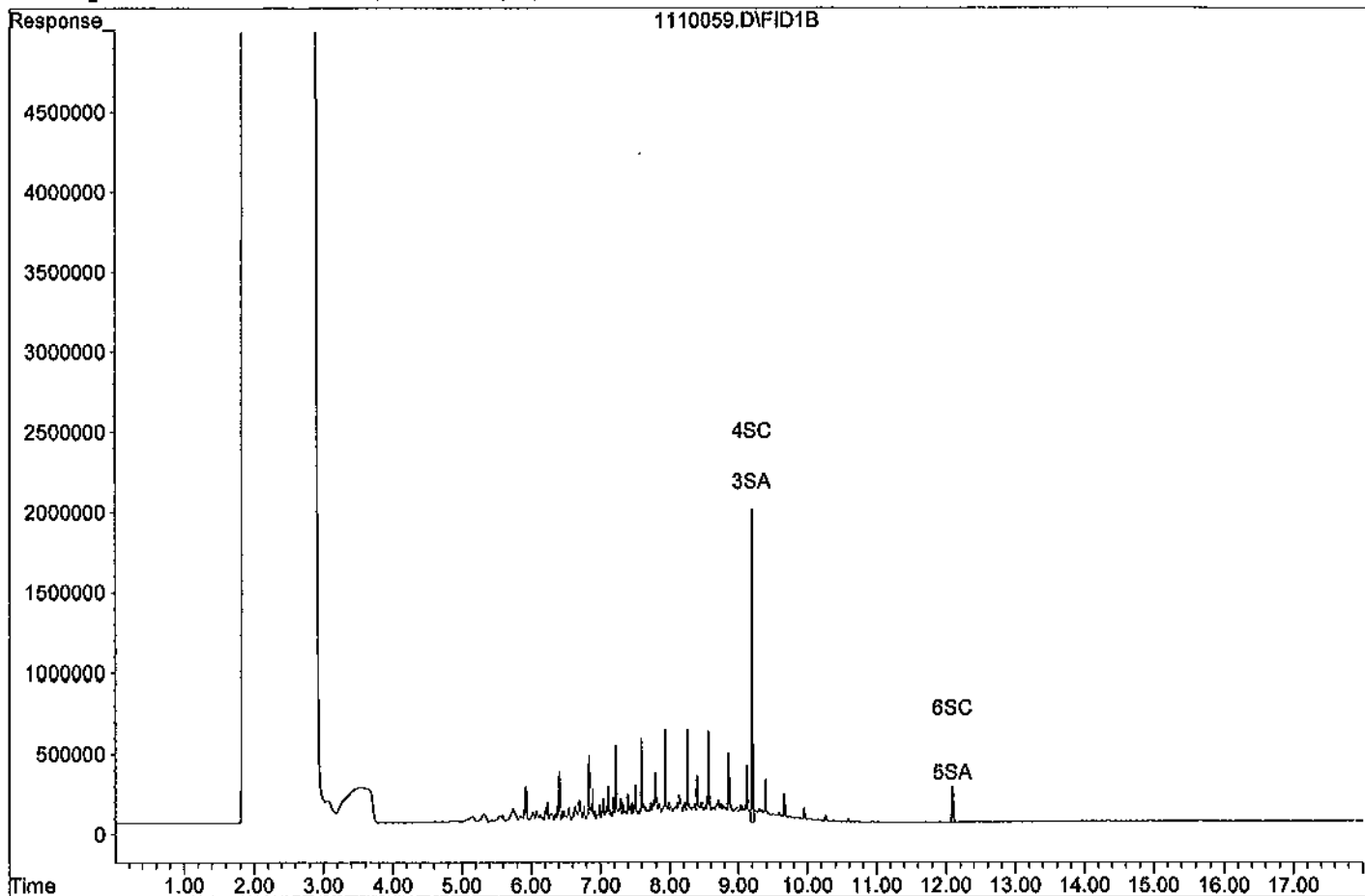
Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
3) SA Not Used(S)	9.20	13744549	20.250 ppb
Surrogate Spike 30.000		Recovery =	67.50%
4) SC Ortho-Terphenyl(S)	9.20	13744549	22.641 ppb
Surrogate Spike 30.000		Recovery =	75.47%
5) SA Not Used2(S)	12.09	3093601	19.620 ppb
Surrogate Spike 30.000		Recovery =	65.40%
6) SC Octacosane(S)	12.09	3093601	20.108 ppb
Surrogate Spike 30.000		Recovery =	67.03%
Target Compounds			
1) HATM Diesel (C10-C28)	9.01	199903834	406.084 ppb
2) HBTM Motor Oil (C18-C36)	12.24	58700378	252.526 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\111110\1110059.D
Sample : DIESEL 400/1000 11/8/11



TPH Extractables
TPH1108

Form 7
Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: 66186
Date Analyzed: 11/11/11
Instrument: Apollo
Initial Cal. Date: 11/08/11
Data File: 1110059.D

	Compound	MEAN	CCRF	%D	%Drift
1	HATM Diesel (C10-C28)	305473	249880	18	HATML 1.5
2	HBTM Motor Oil (C18-C36)	116226	119457	2.8	HBTM
3					
4					
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36					
37					
38					
39					
40	Average			10.4	

**EPA 8015 Modified
Total Petroleum Hydrocarbons
Raw Data**

Method Blank
TPH Diesel Water

Blank Name/QCG: **111108W-50005 - 161797**
Batch ID: #TPETD-111108A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	DIESEL FUEL	80.8 U	150	80.8	40.4	ug/L	11/08/11	11/11/11
BLANK	SURROGATE: OCTACOSANE (S)	78.6	28-142			%	11/08/11	11/11/11
BLANK	SURROGATE: ORTHO-TERPHEN	78.5	57-132			%	11/08/11	11/11/11

Quant Method:TPH1108.M
Run #: 1110052
Instrument:APOLLO
Sequence:111110
Initials:LA

GC SC-Blank-REG MDLs
Printed: 11/30/11 2:44:00 PM

Data File : G:\APOLLO\DATA\111110\1110052.D Vial: 52
 Acq On : 11-11-11 6:05:10 Operator: LAC
 Sample : 111108A BLK 5/1000 Inst : Apollo
 Misc : Water Multiplr: 5.00
 IntFile : events.e
 Quant Time: Nov 30 14:30 2011 Quant Results File: TPH1108.RES

Method : G:\APOLLO\DATA\111110\TPH1108.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Nov 14 13:54:20 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

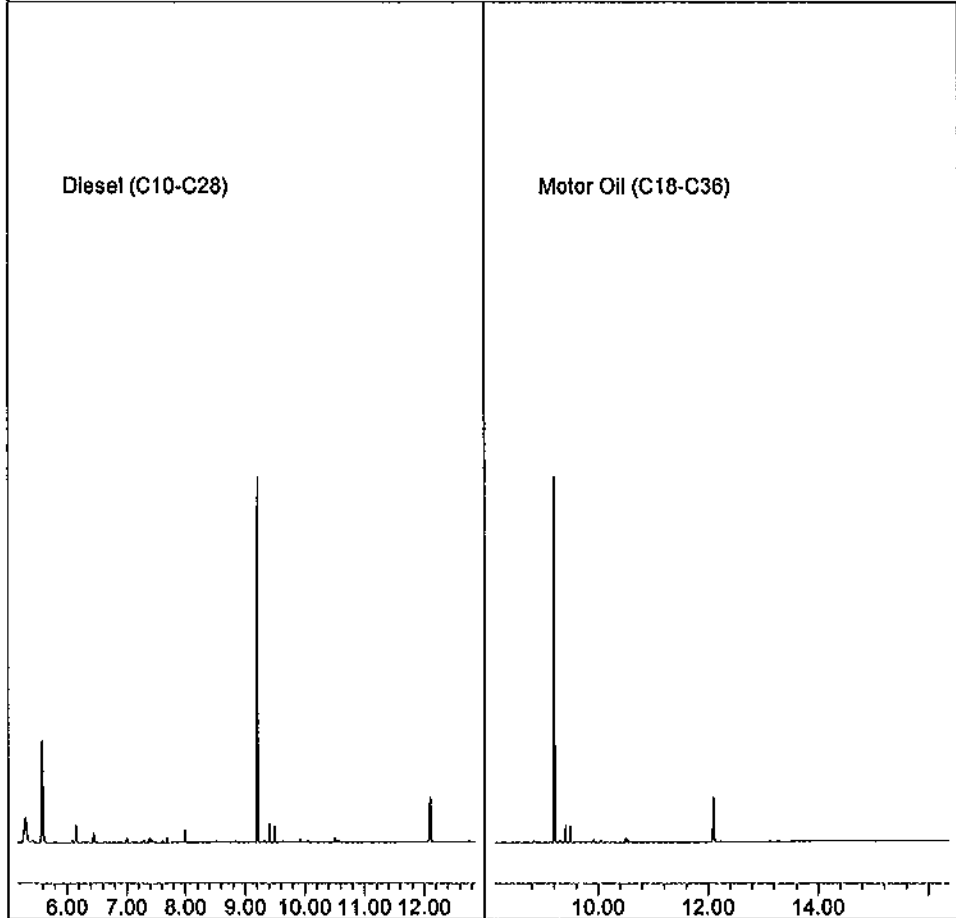
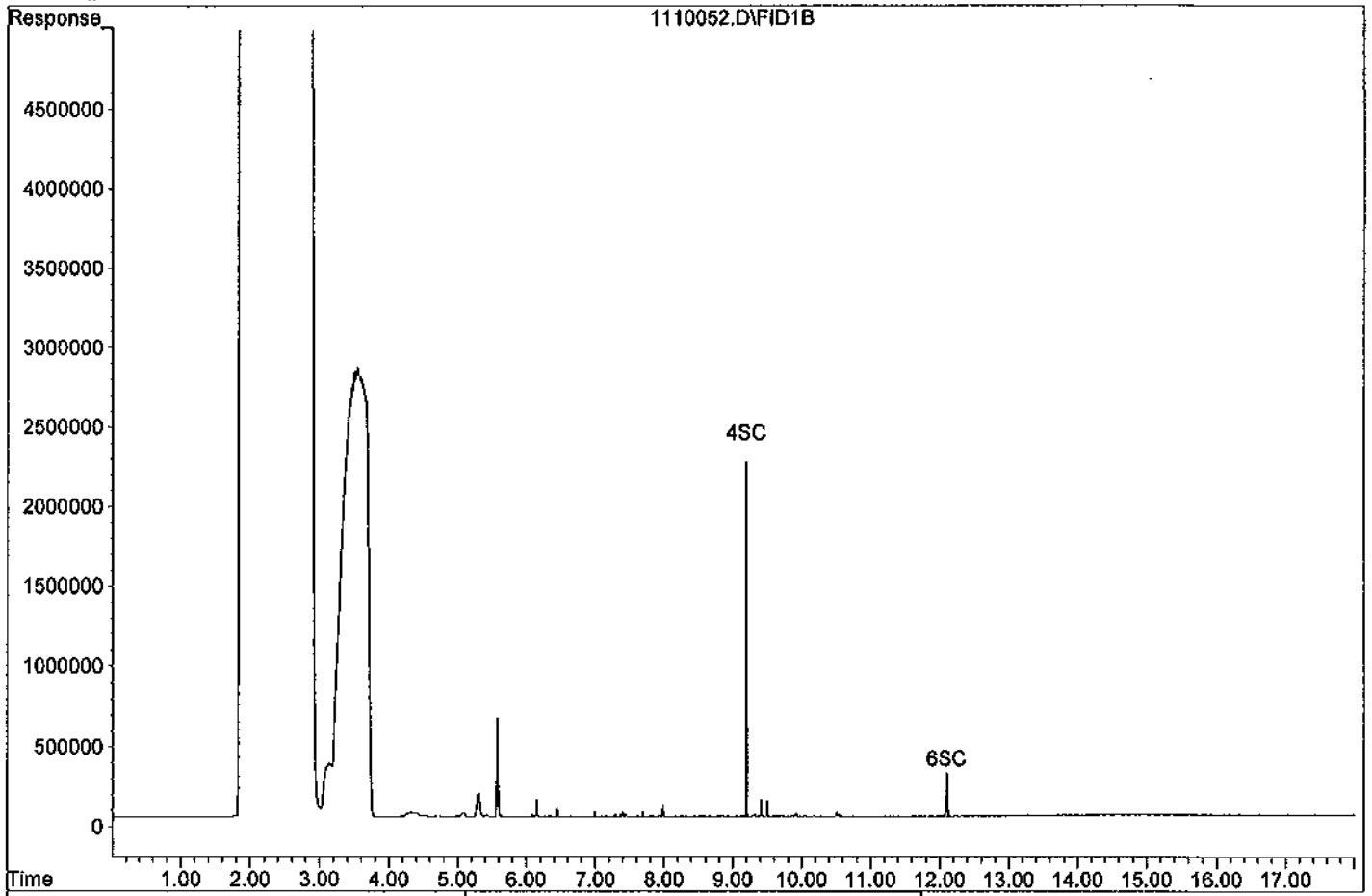
Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.20	14295665	117.744 ppb
Surrogate Spike 150.000		Recovery =	78.50%
6) SC Octacosane(S)	12.10	3627288	117.883 ppb
Surrogate Spike 150.000		Recovery =	78.59%

Target Compounds

Quantitation Report

Data File: G:\APOLLO\DATA\111110\1110052.D
Sample : 111108A BLK 5/1000



Laboratory Control Spike Recovery
TPH Diesel Water

APPL ID: 111108W-50005 LCS - 161797

Batch ID: #TPETD-111108A

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
DIESEL FUEL	2000	1620	81.0	61-143
SURROGATE: OCTACOSANE (S)	150	124	82.7	28-142
SURROGATE: ORTHO-TERPHENYL (S)	150	141	94.0	57-132

Comments: _____

<u>Primary</u>	<u>SPK</u>
Quant Method :	TPH1108.M
Extraction Date :	11/08/11
Analysis Date :	11/11/11
Instrument :	APOLLO
Run :	1110053
Initials :	LA

Printed: 11/30/11 2:43:56 PM

APPL Standard LCS

Data File : G:\APOLLO\DATA\111110\1110053.D Vial: 53
 Acq On : 11-11-11 6:28:45 Operator: LAC
 Sample : 111108A LCS-1 5/1000 Inst : Apollo
 Misc : Water Multiplr: 5.00
 IntFile : events.e
 Quant Time: Nov 30 14:30 2011 Quant Results File: TPH1108.RES

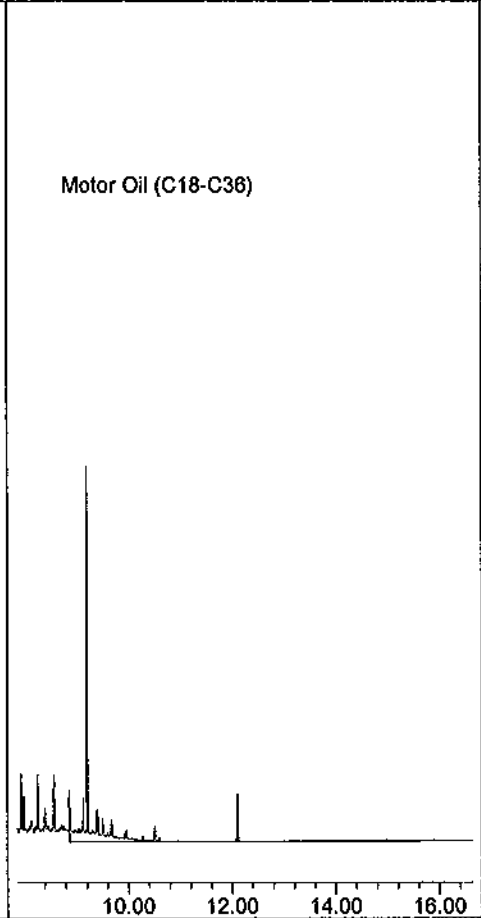
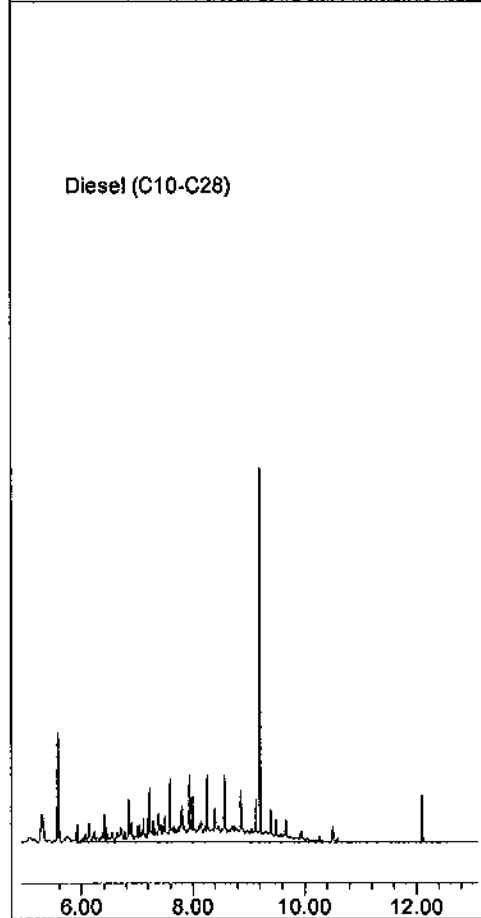
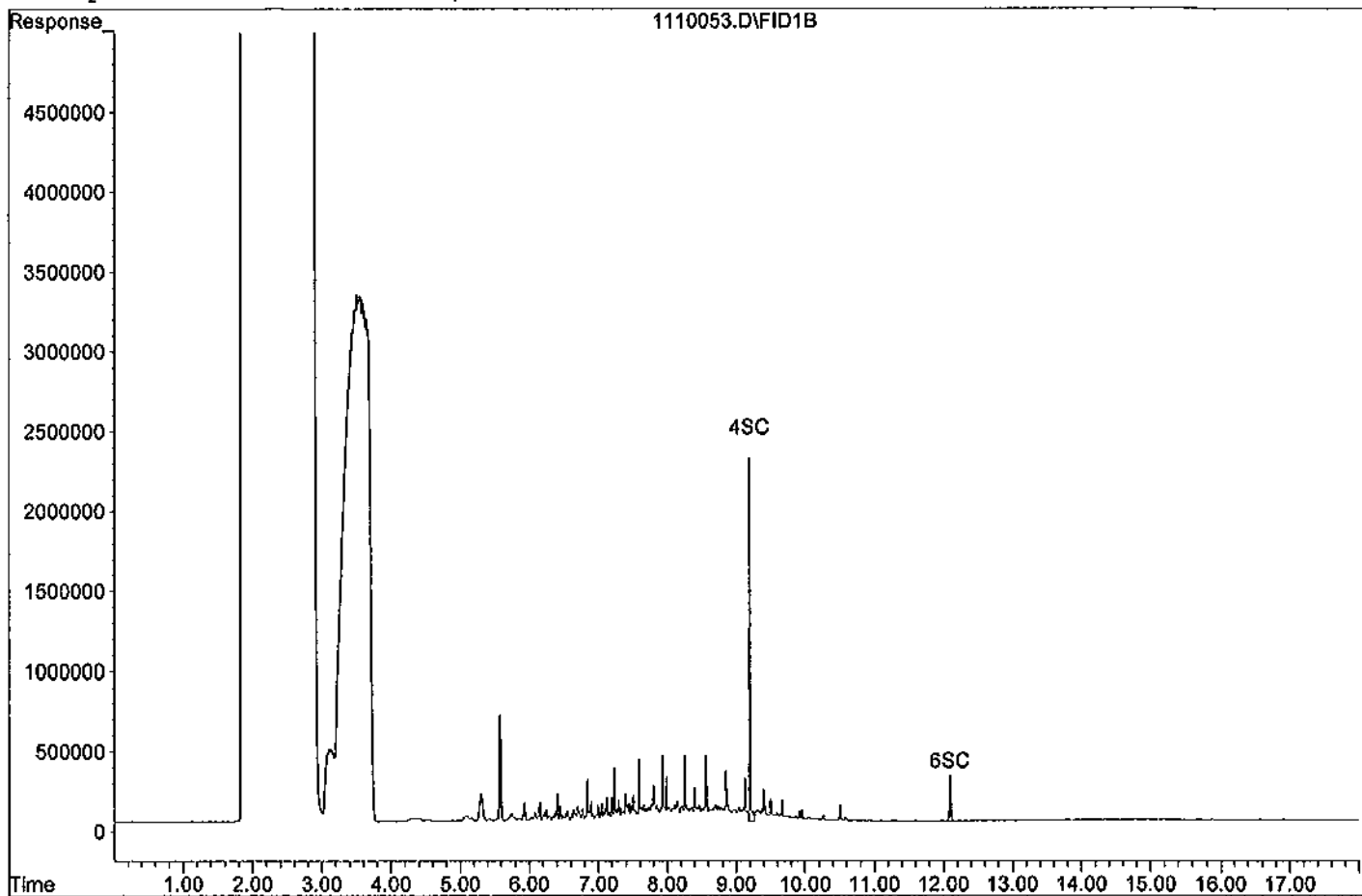
Method : G:\APOLLO\DATA\111110\TPH1108.M (Chemstation Integrator)
 Title : Diesel
 Last Update : Mon Nov 14 13:54:20 2011
 Response via : Multiple Level Calibration

Volume Inj. : 2UL
 Signal Phase : DB-5
 Signal Info : FID02A

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) SC Ortho-Terphenyl(S)	9.20	17106977	140.899 ppb
Surrogate Spike 150.000		Recovery =	93.93%
6) SC Octacosane(S)	12.10	3821271	124.187 ppb
Surrogate Spike 150.000		Recovery =	82.79%
Target Compounds			
1) HATM Diesel (C10-C28)	9.01	160007121	1619.200 ppb
2) HBTM Motor Oil (C18-C36)	12.24	52632663	1132.117 ppb

Quantitation Report

Data File: G:\APOLLO\DATA\111110\1110053.D
Sample : 111108A LCS-1 5/1000



STANDARD
052

INITIAL CONC	SOURCE DATE	ALIQUOT	FINAL VOLUME	FINAL CONC	SOLVENT LOT#	DATE INITIALS
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DIESEL STANDARD

DIESEL FUEL #2	5000mg/ml	02SI	1000ml	50ML	1000mg/ml	MC	# 051711B	9/1/11
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Diesel Fuel #2 Composite
50,000 mg/L, 1 ml

011998-43

Lot # 167768 Storage 5-10 Degree C Expiry 2/15/15

Solnt: Methylene Chloride

Diesel Fuel #2 Composite OP: 9/1/11

Lot #: 167768 - 28176 EX: 9/1/12

Rec: 1/20/11 MFR exp. 02/15/15

EX: 3/1/12

DICRODANSE D-TERPENTHIL	600mg/ml	02SI	4170ml		50mg/ml			
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CAT: 110316-05

LOT: 176405-29337

OP: 9/1/11

EX: 9/1/12

MOTOR OIL STANDARD

MOTOR OIL	50000mg/ml	02SI	1000ml	50ML	1000mg/ml	MC	# 051711B	9/1/11
-----------	------------	------	--------	------	-----------	----	-----------	--------

02si Motor Oil Composite, 50,000 mg/L, 1 ml

116390-02

Storage: <-10 Degree C

Made in USA Lot No: 161898 Solvent: Methylene Chloride

Exp: 7/23/2013

Dst Motor oil composite

Lot #: 161898 - 28615

Rec: 4/14/11 MFR exp. 07/23/13

EX: 3/1/12

DIESEL 2ND SOURCE

DIESEL FUEL #2	50000mg/ml	02SI	1000ml	50ML	1000mg/ml	MC	# 051711B	9/1/11
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Diesel Fuel #2 Composite
50,000 mg/L, 1 ml

011998-43

Lot # 167769 Storage 5-10 Degree C Expiry 2/15/15

Solnt: Methylene Chloride

Diesel Fuel #2 Composite OP: 9/1/11

Lot #: 167769 - 29997 EX: 9/1/12

Rec: 8/28/11 MFR exp. 02/15/15

EX: 3/1/12

STANDARD INITIAL CONC SOURCE DATE ALIQUOT VOLUME FINAL CONC SOLVENT/ LOT# DATE

DIESEL STANDARD

DIESEL FUEL #2 50000µg/ml O2SI 600ml 50ml 1000µg/ml MC # 51204 10/26/11
 Ex: 4/26/12

OP: 10/26/11

Diesel Fuel #2 Composite
 80,000 mg/L, 1 ml
 811998-83
 Lot # 167768 Storage 3-10 Degrees C Expiry 2/15/15
 Solv: Methylene Chloride
 Diesel Fuel #2 Composite *OP: 10/26/11*
 Lot #: 167768-29406 Ex: 10/26/12
 Rec: 8/28/11 MFR exp. 02/15/15

PROPYLENE GLYCOL MONOSULFONATE 6000µg/ml O2SI 4170ml 50µg/ml

CAT: 110316-05
 LOT: 176405-29338
 OP: 10/10/11
 Ex: 10/10/12

MOTOR OIL STANDARD

MOTOR OIL 50000µg/ml O2SI 1000ml 50ml 1000µg/ml MC # 51204 10/26/11
 Ex: 4/26/12

OP: 10/26/11

Motor Oil Composite, 50,000 µg/L, 1 ml
 116390-02 Storage: -4°-10 Degrees C
 Lot No: 161898 Solvent: Methylene Chloride
 Made in USA Exp: 7/23/2013
 Date: Motor oil composite
 Lot #: 161898-28616
 Rec: 4/14/11 MFR exp. 07/23/13

	PAC ECO 2ND SOURCE				
DIAZINON	5ug/ml	200ug/ml	250ul	O2SI	10ml
DISULFOTON		200	CAT:	130169-01	HEXANE
MALATHION		200	LOT:	178204-29481	LOT#
MOLINATE		200	OP:	10/26/2011	082610B
PHORATE		200	EXP:	3/1/2012	
THIOBENCARB		200			
TRIBUTYL PHOSPHATE		200			
DEMETON		200			
DISCHLORVOS		200			
EPTC		200			
PARATHION		200			
AZINPHOS METHYL		200			
CHLORPYRIFOS		200			
DIMETHOATE		200			
METHIOATHION		200			
METHYL PARATHION		200			
ATRAZINE		200			
CYANIZINE		200			
TRIPHENYL PHOSPHATE		200			
PENDIMETHALIN (PROWL)		200			
TRIFLURALIN		200			
SIMAZINE		200			

OP: 10/26/11

10/26/11
 Ex: 3/11/12

OP: 10/26/11

STANDARD INITIAL CONC SOURCE DATE ALIQUOT VOLUME FINAL CONC FINAL SOL (ml) / LOT# DATE / 10898

Technical Chlordane
Standard / Spike

STANDARD	INIT CONC.	SOURCE DATE	ALIQUOT	FINAL VOL.	FINAL CONC.	SOLVENT
Technical Chlordane	100 ug/ml	Absolute	500 µL	5 mL	10 µg/mL	Hexane
	Part:	91824				Lot#
	Lot:	121008-28981				0826108
	open:	7/15/2011				
	exp:	7/15/2012				

11/1/11
ex:
5/1/12

DIESEL SPIKE

DIESEL FUEL #2 50,000mg/L 02s1 200µL 50ML 2000µg/L MC # 51204 11/2/11 ex: 2/2/12

OP: 11/2/11 EX: 11/2/11	Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml Lot # 179635 Storage 5-10 Degree C Expiry 11/8/15 Solv: Methylene Chloride Diesel Fuel #2 Composite Lot #: 179635 - 29644 Rec: 10/13/11 MFR exp. 11/08/15	OP: 11/2/11 EX: 11/2/11	Diesel Fuel #2 Composite, 50,000 mg/L, 1 ml Lot # 179635 Storage 5-10 Degree C Expiry 11/8/15 Solv: Methylene Chloride Diesel Fuel #2 Composite Lot #: 179635 - 29643 Rec: 10/13/11 MFR exp. 11/08/15		
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MOTOR OIL SPIKE

MOTOR OIL 50,000mg/L 02s1 200µL 50ML 2000µg/L MC # 51204 11/2/11 ex: 2/2/12

OP: 11/2/11 EX: 11/2/11	Motor Oil Composite, 50,000 mg/L, 1 ml Lot # 161899 Storage 5-10 Degree C Expiry 07/23/13 Solv: Methylene Chloride Motor oil composite Lot #: 161899 - 28617 Rec: 4/14/11 MFR exp. 07/23/13	OP: 11/2/11 EX: 11/2/11	Motor Oil Composite, 50,000 mg/L, 1 ml Lot # 171363 Storage 5-10 Degree C Expiry 04/09/14 Solv: Methylene Chloride Motor oil composite Lot #: 171363 - 28639 Rec: 4/20/11 MFR exp. 04/09/14		
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DCL SOIL SURROGATE

DECA TCMX DBC 5000µg/L 02s1 400µL 100ML 200µg/L ACETONE # 011011C 11/2/11 ex: 2/2/12

CAT: 130070-02
LOT: 154164-29416
OP: 11/2/11
EX: 11/2/12

DCL SOIL SPIKE

VARIOUS 1000µg/L 02s1 100µL 50ML 200µg/L Acetone # 011011C 11/2/11 ex: 2/2/12

CAT: 130015-05
LOT: 148748
OP: 11/2/11
EX: 11/2/12

STANDARD

INITIAL
CONCSOURCE
DATEALIQUOT
VOLUMEFINAL
CONCSOLVENT
LOT #DATE
10/25

11/7/2011

PREP DATE:	11/7/2011											
PAC ECO CURVE												
EXP:	2/25/2012											
SUPPLIER	ID#	[ug/mL]	LOT #	DATE	EXP. DATE	μ L	μ L	μ L	μ L	μ L	μ L	μ L
	PAC ECO CAL STD	5		10/26/2011	2/25/2012	2	10	50	200	500	700	1000
VOL	HEXANE		010711A			998	990	950	800	500	300	N/A
				Final VOL.		1000	1000	1000	1000	1000	1000	1000
PAC ECO 2ND SRC												
Prep:	11/7/11	Exp:	12/17/11	5	010711A	10/28/2011	12/17/2011	600/1000				

11/7/11
ex: 2/25/12
11/7/11
ex: 12/17/11

TCH SURROGATE CURVE

STD	[ug/mL]	LOT #	DATE	EXP. DATE	μ L	μ L	μ L	μ L	μ L	μ L
THC SURR	50	176405	10/17/2011	4/17/2012	50	100	400	800	800	1000
MC		51204			950	900	600	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

11/8/11
ex: 4/17/12

DIESEL CURVE

STD	[ug/mL]	LOT #	DATE	EXP. DATE	μ L	μ L	μ L	μ L	μ L	μ L
DIESEL	1000		10/26/2011	4/26/2012	10	100	400	800	800	1000
MC		51204			980	900	600	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

11/8/11
ex: 4/26/12

MOTOR OIL CURVE

STD	[ug/mL]	LOT #	DATE	EXP. DATE	μ L	μ L	μ L	μ L	μ L	μ L
MOTOR OIL	1000		10/26/2011	4/26/2012	50	100	400	600	800	1000
MC		51204			950	900	600	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

11/8/11
ex: 3/1/12

DIESEL 2ND SOURCE

STD	Int. Conc	Source	Aliquot	Final Vol.	Final Conc.	Solvent
DIESEL 2ND SRC	1000ug/ml	O2SI	400 μ L	1 mL	400 ug/mL	MC
		Prep:	9/1/2011			51204
		Exp:	3/1/2012			

11/9/2011

PREP DATE:	11/9/2011											
TERRACIL CURVE												
EXP:	3/13/2012					0.05	0.25	1	2.5	3.5	5	
SUPPLIER	ID#	[ug/mL]	LOT #	DATE	EXP. DATE	μ L	μ L	μ L	μ L	μ L	μ L	μ L
	TERRACIL STD	5		9/13/2011	3/13/2012	10	50	200	500	700	1000	
VOL	HEXANE		082610B			960	920	900	800	500	300	
				Final VOL.		1000	1000	1000	1000	1000	1000	1000

11/9/11
ex: 3/13/12

11/9/2011

PREP DATE:	11/9/2011					
OP 2ND SOURCE						
EXP:	4/19/2012					
SUPPLIER	ID#	[ug/mL]	LOT #	DATE	EXP. DATE	μ L
	OP 2ND SRC	5		10/19/2011	4/19/2012	500
VOL	HEXANE		082610B			500
				Final VOL.		1000

11/9/11
ex: 4/19/12

11/8/2011

PREP DATE:	11/8/2011											
OPF CURVE												
EXP:	2/7/2012											
SUPPLIER	ID#	[ug/mL]	LOT #	DATE	EXP. DATE	μ L	μ L	μ L	μ L	μ L	μ L	μ L
	OPF STD	5		11/3/2011	2/7/2012	2	10	50	200	500	700	1000
VOL	HEXANE		082610B			998	990	950	800	500	300	NA
				Final VOL.		1000	1000	1000	1000	1000	1000	1000

11/9/11
ex: 2/7/12

STANDARD	INITIAL CONC	SOURCE DATE	ALIQOT VOLUME	FINAL VOLUME	FINAL CONC	SOLVENT LOT#	DATE/TOTALS
<u>PCB SOIL SPIKE</u>							
AR 1260	1000mg/ml	0251	1250ml	25ml	50mg/ml	ACETONE	11/10/11
AR 1016		CAT: 130011-03				#	EX: 2/10/12
		LOT: 163607-27215					
		OP: 11/10/11					
		EX: 11/10/12					
		AND					
		LOT: 152374-27210					
		OP: 3/2/11					
		EX: 3/2/12					

<u>PCB WATER SPIKE</u>							
AR 1016	1000mg/ml	0251	125ml	25ml	50mg/ml	ACETONE	11/10/11
AR 1260		CAT: 130011-03				#	EX: 2/10/12
		LOT: 163607-27214					
		OP: 8/2/11					
		EX: 8/2/12					

<u>HERB 100/1000 (LVL 3) CCV</u>							
VARIOUS	VARIOUS	HERB STD.	100ml	1ml	100mg/ml	MTBE	11/10/11
SEE PL OTS		PREP: 10/11/11				#	EX: 4/11/12
		EX: 4/11/12					

<u>THC SURROGATE CAL. STD.</u>							
D-TETRAHULL DICTAOSANE	1000mg/ml	0251	834ml	10ml	50mg/ml	MC	11/15/11
		CAT: 110316-05				#	EX: 5/15/12
		LOT: 176405-29342					
		OP: 10/10/11					
		EX: 10/10/12					

LAC 11/15/11

THC SURROGATE CURVE										
STD	[µg/mL]	LOT #	DATE	EXP. DATE	µL	µL	µL	µL	µL	µL
THC SURR	50	176405	11/15/2011	5/15/2012	50	100	400	600	800	1000
MC		51204			950	900	600	400	200	NA
				Final VOL.	1000	1000	1,000	1000	1000	1000

LAC
11/15/11
EX: 5/15/12

Organic Extraction Worksheet

Method	THC Separatory Funnel Extraction 3510C	Extraction Set	111108A	Extraction Method	SEBP011	Units	mL
Spiked ID 1	Diesel Spike 11/2/11 EX 2/2/12	Surrogate ID 1	THC Surrogate 176405-29338				
Spiked ID 2	Motor Oil Spike 11/2/11 EX 2/2/12	Surrogate ID 2					
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC: no					
Spiked ID 7		Ext. Start Time:					
Spiked ID 8		Ext. End Time:					
GC Requires Extract By:				11/17/11 0:00			
pH1				Water Bath Temp Criteria		80 °C	
pH2							
pH3							

Spiked By: HW

Date 11/8/2011

Witnessed By: CC

Date 11/8/2011

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	111108A Blk			0.250	1	1000	5	7	11/08/11 12:40	
					equip	E-WB5				
2	111108A LCS-1	1	1	0.250	1	1000	5	7	11/08/11 12:40	
					equip	E-WB5				
3	111108A LCS-2	1	2	0.250	1	1000	5	7	11/08/11 12:40	
					equip	E-WB5				
4	AY50005 AY50005W07			0.250	1	1030	5	7	11/08/11 12:40	66186-2 week rush -- Amber Liter
					equip	E-WB5				
5	AY50011 AY50011W09			0.250	1	1050	5	7	11/08/11 12:40	66187-2 week rush -- Amber Liter
					equip	E-WB5				
6	AY50017 AY50017W08			0.250	1	1050	5	7	11/08/11 12:40	66187-2 week rush -- Amber Liter
					equip	E-WB5				
7	AY50141 AY50141W06			0.250	1	1050	5	7	11/08/11 12:40	66206-2 week rush -- Amber Liter
					equip	E-WB5				

HW 11/8/11

Solvent and Lot#	
MC	EMD 51204
Na2SO4	3581C501

Extraction COC Transfer	
Extraction lab employee Initials	HW
GC analyst's initials	<i>[Signature]</i>
Date	11/8/11
Time	16:49
Refrigerator	MSBACT

Technician's Initials	
Scanned By	HW
Sample Preparation	HW
Extraction	HW
Concentration	HW
Modified	11/8/2011 12:09:28 PM

Reviewed By: HW

Date 11/8/2011

Injection Log

Directory: G:\APOLLO\DATA\111108\111110

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	5	1108005.D	1	DIESEL 100/1000	Mix(A)	11-8-11 15:50:59
2	6	1108006.D	1	DIESEL 400/1000	Mix(A)	11-8-11 16:14:36
3	7	1108007.D	1	DIESEL 600/1000	Mix(A)	11-8-11 16:38:14
4	8	1108008.D	1	DIESEL 800/1000	Mix(A)	11-8-11 17:01:53
5	9	1108009.D	1	DIESEL 1000/1000	Mix(A)	11-8-11 17:25:32
6	11	1108011.D	1	MOTOR OIL 50/1000 11/8/11	Mix(B)	11-8-11 18:12:45
7	12	1108012.D	1	MOTOR OIL 100/1000	Mix(B)	11-8-11 18:36:14
8	13	1108013.D	1	MOTOR OIL 400/1000	Mix(B)	11-8-11 18:59:47
9	14	1108014.D	1	MOTOR OIL 600/1000	Mix(B)	11-8-11 19:23:20
10	15	1108015.D	1	MOTOR OIL 800/1000	Mix(B)	11-8-11 19:46:53
11	16	1108016.D	1	MOTOR OIL 1000/1000	Mix(B)	11-8-11 20:10:21
12	17	1108017.D	1	THC SURR 10/1000 11/8/11	Mix(C)	11-8-11 20:33:47
13	18	1108018.D	1	THC SURR 100/1000	Mix(C)	11-8-11 20:57:14
14	19	1108019.D	1	THC SURR 400/1000	Mix(C)	11-8-11 21:20:36
15	20	1108020.D	1	THC SURR 600/1000	Mix(C)	11-8-11 21:43:59
16	21	1108021.D	1	THC SURR 800/1000	Mix(C)	11-8-11 22:07:20
17	22	1108022.D	1	THC SURR 1000/1000	Mix(C)	11-8-11 22:30:39
18	69	1108069.D	1	DIESEL 10/1000 11/8/11	Mix(A)	11-9-11 17:18:58
19	70	1108070.D	1	DIESEL 400 2ND SRC 11/8/11	Mix(A)	11-9-11 17:42:38
20	47	1110047.D	1	DIESEL 400/1000 11/8/11	Mix(A)	11-11-11 4:07:11
21	52	1110052.D	5	111108A BLK 5/1000	Water	11-11-11 6:05:10
22	53	1110053.D	5	111108A LCS-1 5/1000	Water	11-11-11 6:28:45
23	55	1110055.D	4.85437	AY50005W07 5/1030	Water	11-11-11 7:15:54
24	59	1110059.D	1	DIESEL 400/1000 11/8/11	Mix(A)	11-11-11 8:50:25

EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons

APPL, INC.

EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
QC Summary

Method Blank
EPA 8270D SIM

Blank Name/QCG: 111108W-50005 - 162179
Batch ID: #SIMHC-111108A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	11/08/11	11/10/11
BLANK	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	11/08/11	11/10/11
BLANK	BENZO(A)PYRENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	11/08/11	11/10/11
BLANK	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	11/08/11	11/10/11
BLANK	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	11/08/11	11/10/11
BLANK	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	11/08/11	11/10/11
BLANK	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	11/08/11	11/10/11
BLANK	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	11/08/11	11/10/11
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	11/08/11	11/10/11
BLANK	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	11/08/11	11/10/11
BLANK	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	11/08/11	11/10/11
BLANK	SURROGATE: 2-FLUORBIPHENY	55.5	50-110			%	11/08/11	11/10/11
BLANK	SURROGATE: NITROBENZENE-	54.3	40-110			%	11/08/11	11/10/11
BLANK	SURROGATE: TERPHENYL-D14 (	118	50-135			%	11/08/11	11/10/11

Quant Method:SIM2.M
Run #:1110L003
Instrument:Linus
Sequence:L111027
Initials:LF

GC SC-Blank-REG MDLs
Printed: 12/09/11 6:52:02 PM

Surrogate Recovery

Lab Name: APPL, Inc.
Case No: 66186
Matrix: WATER

SDG No: 66186
Date Analyzed: 11/10/11
Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: 2-FLUORBIPHENYL (S)			SURROGATE: NITROBENZENE-D5 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
111108A-BLK	Blank	50-110	55.5		40-110	54.3	
111108A-LCS	Lab Control Spike	50-110	52.5		40-110	65.5	
AY50005	ES057	50-110	62.7		40-110	72.6	

Comments: Batch: #SIMHC-111108A

Surrogate Recovery

Lab Name: APPL, Inc.
Case No: 66186
Matrix: WATER

SDG No: 66186
Date Analyzed: 11/10/11
Instrument: Linus

APPL ID.	Client Sample No.	SURROGATE: TERPHENYL-D14 (S)					
		Limits	Result	Qualifier	Limits	Result	Qualifier
111108A-BLK	Blank	50-135	118				
111108A-LCS	Lab Control Spike	50-135	122				
AY50005	ES057	50-135	111				

Comments: Batch: #SIMHC-111108A

Laboratory Control Spike Recovery
EPA 8270D SIM

APPL ID: 111108W-50005 LCS - 162179
Batch ID: #SIMHC-111108A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1-METHYLNAPHTHALENE	4.00	2.49	62.3	45-105
2-METHYLNAPHTHALENE	4.00	2.53	63.2	45-105
ACENAPHTHENE	4.00	2.74	68.5	45-110
ACENAPHTHYLENE	4.00	2.50	62.5	50-105
ANTHRACENE	4.00	2.86	71.5	55-110
BENZO(A)ANTHRACENE	4.00	3.45	86.3	55-110
BENZO(A)PYRENE	4.00	2.73	68.3	55-110
BENZO(B)FLUORANTHENE	4.00	3.28	82.0	45-120
BENZO(GHI)PERYLENE	4.00	2.98	74.5	40-125
BENZO(K)FLUORANTHENE	4.00	2.78	69.5	45-125
CHRYSENE	4.00	2.59	64.8	55-110
DIBENZ(A,H)ANTHRACENE	4.00	3.11	77.8	40-125
FLUORANTHENE	4.00	3.05	76.3	55-115
FLUORENE	4.00	2.69	67.3	50-110
INDENO(1,2,3-CD)PYRENE	4.00	3.14	78.5	45-125
NAPHTHALENE	4.00	2.22	55.5	40-100
PHENANTHRENE	4.00	2.60	65.0	50-115
PYRENE	4.00	2.73	68.3	50-130

SURROGATE: 2-FLUORBIPHENYL (S)	2.00	1.05	52.5	50-110
SURROGATE: NITROBENZENE-D5 (S)	2.00	1.31	65.5	40-110
SURROGATE: TERPHENYL-D14 (S)	2.00	2.43	122	50-135

Comments:

<u>Primary</u>	<u>SPK</u>
Quant Method :	SIM2.M
Extraction Date :	11/08/11
Analysis Date :	11/10/11
Instrument :	Linus
Run :	1110L004
Initials :	LF

Printed: 12/09/11 6:52:11 PM

APPL Standard LCS

8270D-SIM

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 66186

Case No: 66186

Date Analyzed: 11/10/11

Matrix: WATER

Instrument: Linus

Blank ID: 111108A-BLK

Time Analyzed: 1947

APPL ID.	Client Sample No.	File ID.	Date Analyzed
111108A-BLK	Blank	1110L003	11/10/11 1947
111108A-LCS	Lab Control Spike	1110L004	11/10/11 2012
AY50005	ES057	1110L005	11/10/11 2038

Comments: Batch: #SIMHC-111108A

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 66186
 Matrix: Water
 ID: SVTUNE 10-27-11

SDG No: 66186
 Date Analyzed: 11/10/11
 Instrument: Linus
 Time Analyzed: 19:03

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	Blank	111108A BLK 1/1000	1110L003.D 11/10/11 19:47
2	Lab Control Spike	111108A LCS-1 1/1000	1110L004.D 11/10/11 20:12
3	ES057	AY50005W05 1/1050	1110L005.D 11/10/11 20:38
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

m/e

51 29.95 - 60% of mass 198	52.6
68 0 - 2.05% of mass 69	0.0
70 0 - 2% of mass 69	0.1
127 40 - 60% of mass 198	49.8
197 0 - 1% of mass 198	0.0
198 100 - 100% of mass 198	100.0
199 5 - 9% of mass 198	6.9
275 10 - 30% of mass 198	28.8
365 1 - 100% of mass 198	2.8
441 0.01 - 100% of mass 443	74.8
442 40 - 150% of mass 198	79.8
443 17 - 23% of mass 442	20.1

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc.Contract: Review

Lab Code: _____

SDG No.: 66186Lab File ID (Standard): 1028L007.DDate Analyzed: 10/28/11Instrument ID: LinusTime Analyzed: 11:58

GC Column: _____

ID: _____ Heated Purge: (Y/N) _____

		Naphthalene-D8(IS)		Acenaphthene-D10(IS)		Phenanthrene-D10(IS)						
		AREA	#	RT	#	AREA	#	RT	#			
12 HOUR STD		2479		6.12		1083		8.11		1851		9.85
UPPER LIMIT		4958		6.62		2166		8.61		3702		10.35
LOWER LIMIT		1240		5.62		542		7.61		926		9.35
SAMPLE NO.												
01	111108A BLK 1/1000	2288		6.12		1021		8.12		1840		9.86
02	111108A LCS-1 1/1000	2376		6.12		1055		8.12		1891		9.86
03	AY50005W05 1/1050	2197		6.12		977		8.12		1765		9.86
04												
05												
06												
07												
08												
09												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												

AREA UPPER LIMIT = +100% of internal standard area.

AREA LOWER LIMIT = -50% of internal standard area.

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 66186
 Lab File ID (Standard): 1028L007.D Date Analyzed: 10/28/11
 Instrument ID: Linus Time Analyzed: 11:58
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

		Chrysene-D12(IS)		Perylene-D12(IS)			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		2378	12.93	1871	14.56		
UPPER LIMIT		4756	13.43	3742	15.06		
LOWER LIMIT		1189	12.43	936	14.06		
SAMPLE NO.							
01	111108A BLK 1/1000	2623	12.95	2235	14.59		
02	111108A LCS-1 1/1000	2640	12.95	2275	14.58		
03	AY50005W05 1/1050	2529	12.96	2146	14.59		
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Sample Data

EPA 8270D SIM

EnviroNet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacey Fineran

Project: RED HILL/1022-024

Sample ID: ES057

Sample Collection Date: 11/02/11

ARF: 66186

APPL ID: AY50005

QCG: #SIMHC-111108A-162179

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
8270D-SIM	1-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
8270D-SIM	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
8270D-SIM	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
8270D-SIM	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
8270D-SIM	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	11/08/11	11/10/11
8270D-SIM	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	11/08/11	11/10/11
8270D-SIM	BENZO(A)PYRENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
8270D-SIM	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
8270D-SIM	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	11/08/11	11/10/11
8270D-SIM	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	11/08/11	11/10/11
8270D-SIM	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	11/08/11	11/10/11
8270D-SIM	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	11/08/11	11/10/11
8270D-SIM	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	11/08/11	11/10/11
8270D-SIM	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
8270D-SIM	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	11/08/11	11/10/11
8270D-SIM	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	11/08/11	11/10/11
8270D-SIM	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	11/08/11	11/10/11
8270D-SIM	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	11/08/11	11/10/11
8270D-SIM	SURROGATE: 2-FLUORBIPHENYL (S)	62.7	50-110			%	11/08/11	11/10/11
8270D-SIM	SURROGATE: NITROBENZENE-D5 (S)	72.6	40-110			%	11/08/11	11/10/11
8270D-SIM	SURROGATE: TERPHENYL-D14 (S)	111	50-135			%	11/08/11	11/10/11

Quant Method: SIM2.M
Run #: 1110L005
Instrument: Linus
Sequence: L111027
Dilution Factor: 1
Initials: LF

Printed: 12/09/11 6:52:16 PM
APPL-F1-SC-NoMC-REG MDLs

Data File : M:\LINUS\DATA\L111027\1110L005.D
 Acq On : 10 Nov 11 20:38
 Sample : AY50005W05 1/1050
 Misc :

Vial: 5
 Operator: LF
 Inst : Linus
 Multiplr: 0.95

Quant Time: Nov 16 15:49 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Nov 09 14:09:04 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	6.12	136	2197	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	8.12	164	977	2.50000	ppb	0.01
11) Phenanthrene-D10 (IS)	9.86	188	1765	2.50000	ppb	0.01
15) Chrysene-D12 (IS)	12.96	240	2529	2.50000	ppb	0.03
21) Perylene-D12 (IS)	14.59	264	2146	2.50000	ppb	0.03
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.42	82	571	1.38207	ppb	0.02
Spiked Amount	1.905		Recovery	=	72.555%	
7) Surrogate Recovery (FBP)	7.36	172	1093	1.19518	ppb	0.01
Spiked Amount	1.905		Recovery	=	62.738%	
17) Surrogate Recovery (TPH)	11.72	244	2419	2.11556	ppb	0.01
Spiked Amount	1.905		Recovery	=	111.090%	

Target Compounds

Qvalue

Quantitation Report

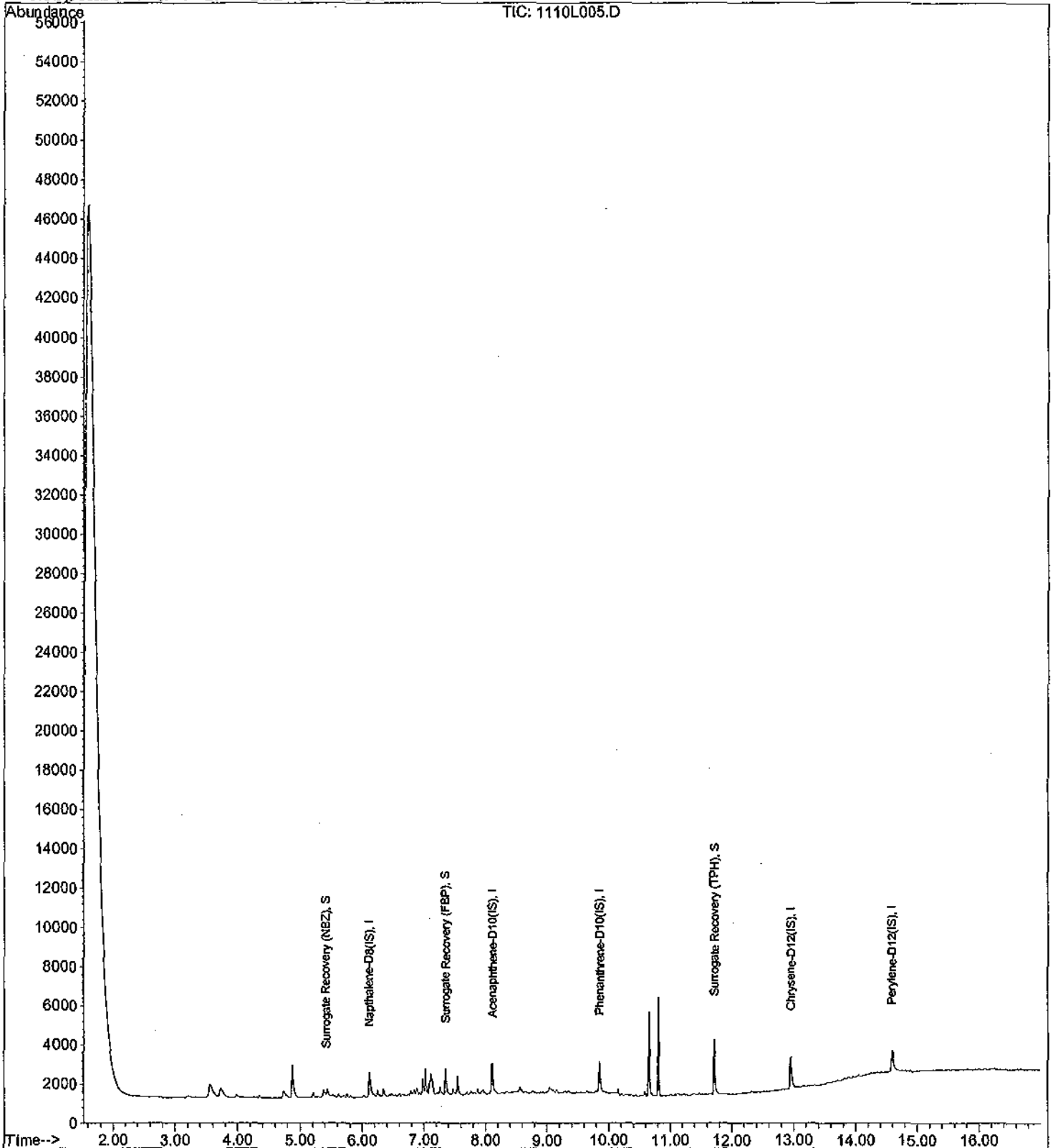
Data File : M:\LINUS\DATA\L111027\1110L005.D
Acq On : 10 Nov 11 20:38
Sample : AY50005W05 1/1050
Misc :

Vial: 5
Operator: LF
Inst : Linus
Multiplr: 0.95

Quant Time: Nov 16 15:49 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 11 16:40:11 2011
Response via : Initial Calibration



EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Calibration Data

Data File : M:\LINUS\DATA\L111027\1027L003.D
 Acq On : 27 Oct 11 19:12
 Sample : 0.1ug/ml PAH 10-27-11
 Misc :

Vial: 3
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 11:15 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 30 10:57:42 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QI on	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	6.14	136	2908	2.50000	ppb	0.02
6) Acenaphthene-D10 (IS)	8.12	164	1434	2.50000	ppb	0.01
11) Phenanthrene-D10 (IS)	9.87	188	2391	2.50000	ppb	0.02
15) Chrysene-D12 (IS)	12.95	240	2986	2.50000	ppb	0.02
21) Perylene-D12 (IS)	14.58	264	2411	2.50000	ppb	0.02
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.61	82	48	0.74306	ppb	0.19
Spiked Amount	2.000		Recovery	=	37.150%	
7) Surrogate Recovery (FBP)	7.40	172	130	0.09815	ppb	0.05
Spiked Amount	2.000		Recovery	=	4.900%	
17) Surrogate Recovery (TPH)	11.74	244	137	0.09107	ppb	0.02
Spiked Amount	2.000		Recovery	=	4.550%	
Target Compounds						
						Qvalue
3) Naphthalene	6.17	128	215	0.10425	ppb	93
4) 2-Methylnaphthalene	7.01	142	97	0.09198	ppb	99
5) 1-Methylnaphthalene	7.08	142	117	0.09071	ppb	97
8) Acenaphthylene	7.99	152	204	0.10524	ppb	99
9) Acenaphthene	8.16	154	126	0.11351	ppb	94
10) Fluorene	8.81	166	125	0.10297	ppb	98
12) Phenanthrene	9.90	178	177	0.11216	ppb	95
13) Anthracene	9.99	178	166	0.10145	ppb	95
14) Fluoranthene	11.30	202	298	0.10883	ppb	# 90
16) Pyrene	11.56	202	303	0.11040	ppb	99
18) Benz (a) anthracene	12.95	228	211	0.11702	ppb	96
19) Chrysene	12.98	228	255	0.09385	ppb	98
20) Indeno (1,2,3-cd) pyrene	16.19	276	218	0.11665	ppb	# 93
22) Benzo (b) fluoranthene	14.15	252	165	0.09422	ppb	# 95
23) Benzo (k) fluoranthene	14.19	252	206	0.11693	ppb	65
24) Benzo (a) pyrene	14.54	252	193	0.11081	ppb	95
25) Dibenz (a,h) anthracene	16.17	278	171	0.11827	ppb	92
26) Benzo (g,h,i) perylene	16.64	276	136	0.08955	ppb	# 89

Quantitation Report

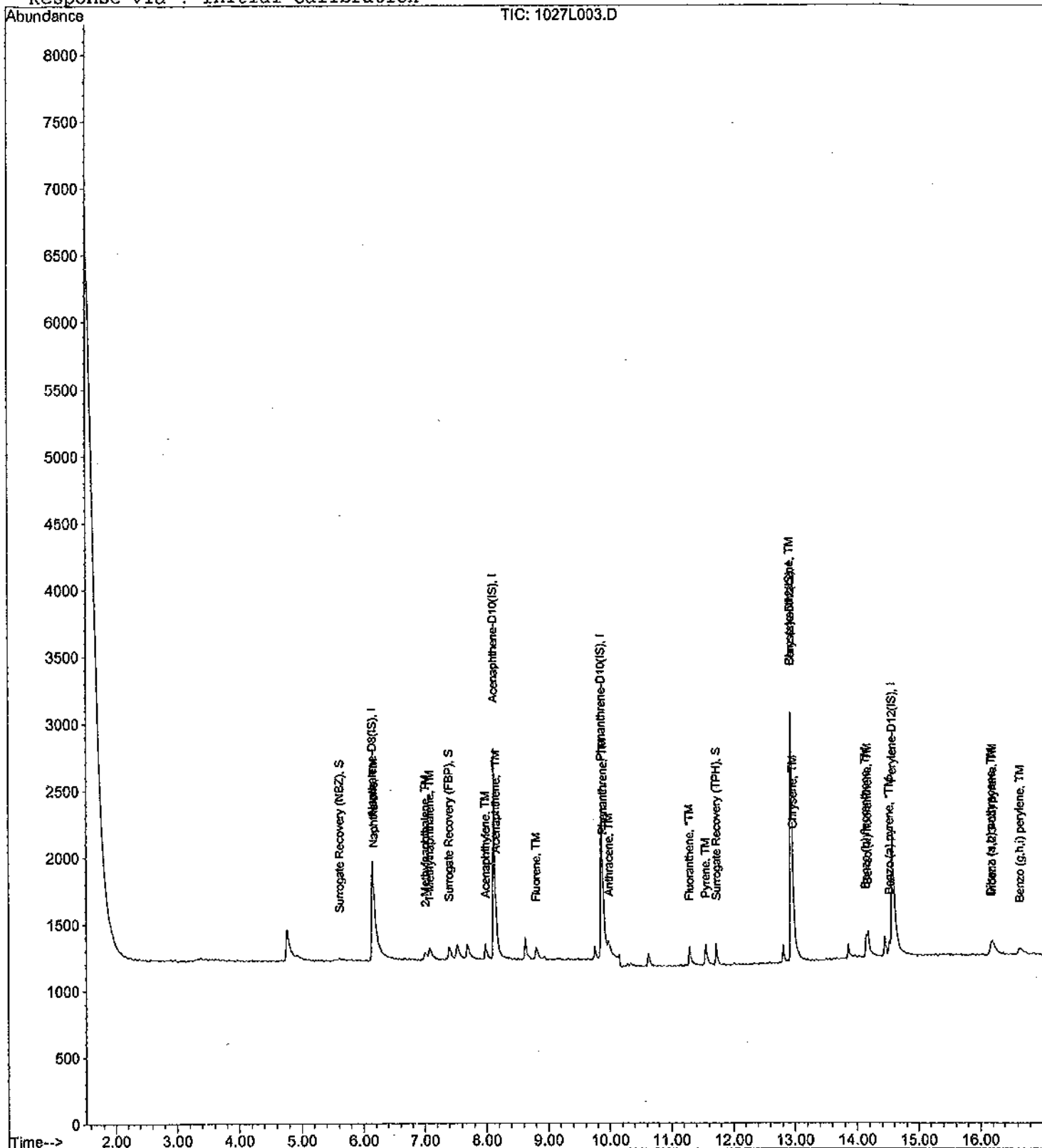
Data File : M:\LINUS\DATA\L111027\1027L003.D
 Acq On : 27 Oct 11 19:12
 Sample : 0.1ug/ml PAH 10-27-11
 Misc :

Vial: 3
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 11:15 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Nov 01 17:14:29 2011
 Response via : Initial Calibration



Data File : M:\LINUS\DATA\L111027\1027L004.D
 Acq On : 27 Oct 11 19:38
 Sample : 0.2ug/ml PAH
 Misc :

Vial: 4
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 11:13 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 30 10:57:42 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	6.14	136	2862	2.50000	ppb	0.02
6) Acenaphthene-D10 (IS)	8.12	164	1317	2.50000	ppb	0.01
11) Phenanthrene-D10 (IS)	9.87	188	2305	2.50000	ppb	0.02
15) Chrysene-D12 (IS)	12.95	240	2814	2.50000	ppb	0.02
21) Perylene-D12 (IS)	14.58	264	2323	2.50000	ppb	0.02
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.60	82	107	0.84083	ppb	0.18
Spiked Amount	2.000		Recovery	=	42.050%	
7) Surrogate Recovery (FBP)	7.40	172	250	0.20995	ppb	0.05
Spiked Amount	2.000		Recovery	=	10.500%	
17) Surrogate Recovery (TPH)	11.72	244	260	0.18421	ppb	0.01
Spiked Amount	2.000		Recovery	=	9.200%	
Target Compounds						
						Qvalue
3) Naphthalene	6.17	128	470	0.23025	ppb	94
4) 2-Methylnaphthalene	7.00	142	193	0.18513	ppb	92
5) 1-Methylnaphthalene	7.07	142	261	0.20451	ppb	98
8) Acenaphthylene	7.99	152	366	0.20677	ppb	98
9) Acenaphthene	8.16	154	211	0.20826	ppb	87
10) Fluorene	8.81	166	232	0.20927	ppb	99
12) Phenanthrene	9.90	178	308	0.20239	ppb	96
13) Anthracene	9.99	178	310	0.19992	ppb	95
14) Fluoranthene	11.29	202	554	0.20981	ppb	95
16) Pyrene	11.55	202	542	0.21034	ppb	# 91
18) Benz (a) anthracene	12.95	228	323	0.19084	ppb	97
19) Chrysene	12.98	228	465	0.18296	ppb	99
20) Indeno (1,2,3-cd) pyrene	16.17	276	342	0.19494	ppb	# 96
22) Benzo (b) fluoranthene	14.15	252	307	0.18266	ppb	97
23) Benzo (k) fluoranthene	14.19	252	334	0.18857	ppb	64
24) Benzo (a) pyrene	14.54	252	353	0.21468	ppb	96
25) Dibenz (a,h) anthracene	16.16	278	293	0.21252	ppb	92
26) Benzo (g,h,i) perylene	16.64	276	326	0.22362	ppb	88

Quantitation Report

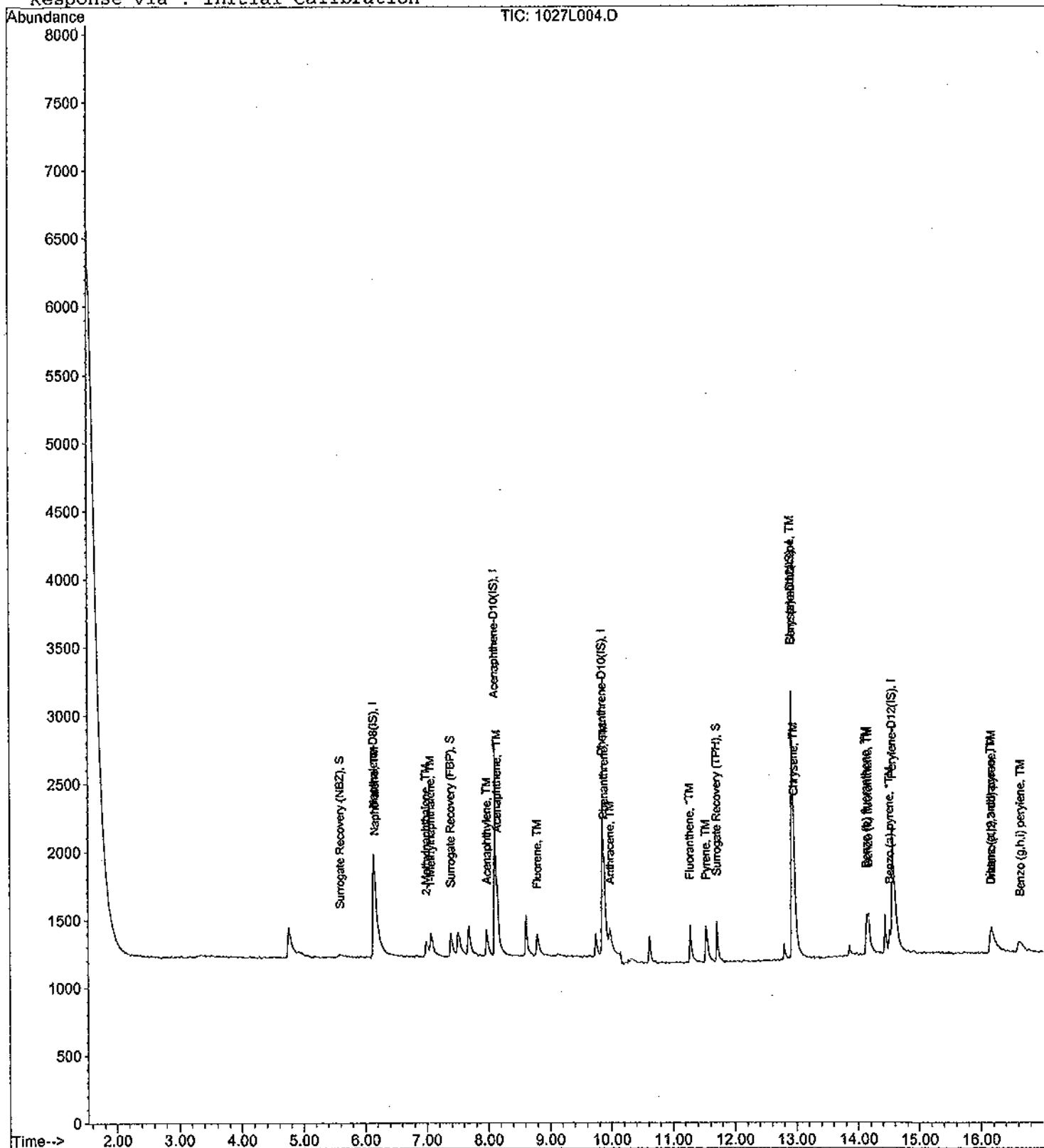
Data File : M:\LINUS\DATA\L111027\1027L004.D
 Acq On : 27 Oct 11 19:38
 Sample : 0.2ug/ml PAH
 Misc :

Vial: 4
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 11:13 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Tue Nov 01 17:14:29 2011
 Response via : Initial Calibration



Data File : M:\LINUS\DATA\L111027\1028L005.D Vial: 5
 Acq On : 28 Oct 11 11:07 Operator: LF
 Sample : 0.5ug/ml PAH Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 30 11:12 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Sep 29 11:47:40 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	6.14	136	2409	2.50000	ppb	0.02
6) Acenaphthene-D10 (IS)	8.12	164	1104	2.50000	ppb	-0.01
11) Phenanthrene-D10 (IS)	9.87	188	1819	2.50000	ppb	0.00
15) Chrysene-D12 (IS)	12.95	240	2477	2.50000	ppb	-0.01
21) Perylene-D12 (IS)	14.57	264	2043	2.50000	ppb	-0.02
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.60	82	240	1.15802	ppb	0.25
Spiked Amount	2.000		Recovery =	57.900%		
7) Surrogate Recovery (FBP)	7.39	172	547	0.79241	ppb	0.01
Spiked Amount	2.000		Recovery =	39.600%		
17) Surrogate Recovery (TPH)	11.74	244	530	0.66674	ppb	-0.02
Spiked Amount	2.000		Recovery =	33.350%		
Target Compounds						
						Qvalue
3) Naphthalene	6.17	128	914	0.46769	ppb	98
4) 2-Methylnaphthalene	6.99	142	390	0.33945	ppb	96
5) 1-Methylnaphthalene	7.06	142	543	0.44086	ppb	95
8) Acenaphthylene	7.98	152	766	0.43771	ppb	99
9) Acenaphthene	8.16	154	445	0.43164	ppb	89
10) Fluorene	8.80	166	496	0.42124	ppb	99
12) Phenanthrene	9.90	178	642	0.38630	ppb	97
13) Anthracene	9.98	178	680	0.37229	ppb	95
14) Fluoranthene	11.29	202	1109	0.36672	ppb	96
16) Pyrene	11.55	202	1135	0.35574	ppb	97
18) Benz (a) anthracene	12.95	228	616	0.34309	ppb	98
19) Chrysene	12.98	228	1009	0.43128	ppb	99
20) Indeno (1,2,3-cd) pyrene	16.15	276	636	0.45186	ppb	# 96
22) Benzo (b) fluoranthene	14.14	252	746	0.48527	ppb	98
23) Benzo (k) fluoranthene	14.17	252	769	0.37285	ppb	98
24) Benzo (a) pyrene	14.52	252	674	0.41516	ppb	94
25) Dibenz (a,h) anthracene	16.14	278	480	0.46345	ppb	95
26) Benzo (g,h,i) perylene	16.59	276	614	0.46797	ppb	92

Quantitation Report

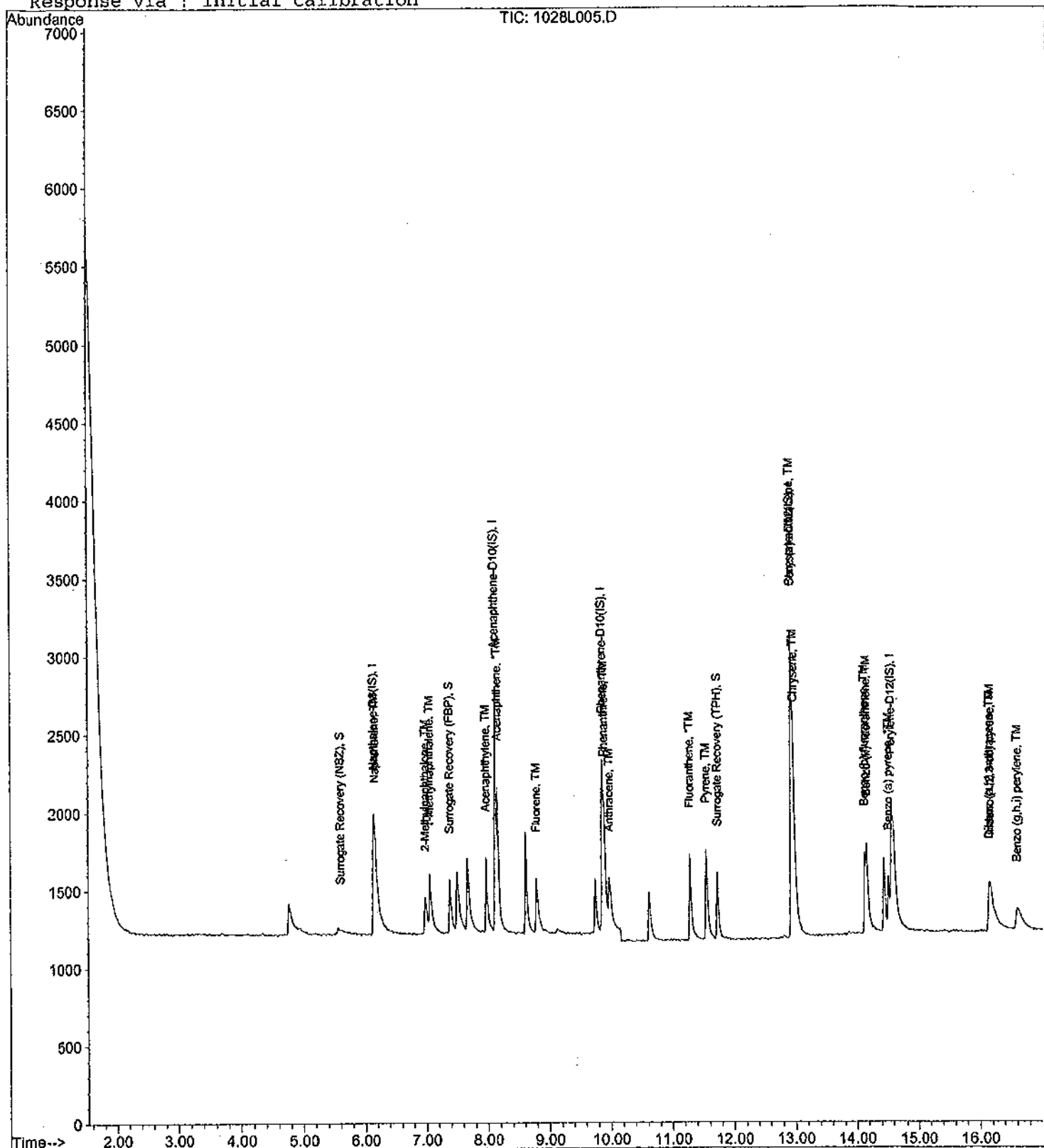
Data File : M:\LINUS\DATA\L111027\1028L005.D
Acq On : 28 Oct 11 11:07
Sample : 0.5ug/ml PAH
Misc :

Vial: 5
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 11:12 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 01 17:14:29 2011
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L111027\1028L006.D Vial: 6
 Acq On : 28 Oct 11 11:32 Operator: LF
 Sample : 1.0ug/ml PAH Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 30 11:10 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 30 10:38:04 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	6.13	136	2381	2.50000	ppb	0.01
6) Acenaphthene-D10 (IS)	8.12	164	1089	2.50000	ppb	-0.01
11) Phenanthrene-D10 (IS)	9.86	188	1865	2.50000	ppb	-0.01
15) Chrysene-D12 (IS)	12.95	240	2449	2.50000	ppb	-0.01
21) Perylene-D12 (IS)	14.57	264	2032	2.50000	ppb	-0.02
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.54	82	437	1.90266	ppb	0.00
Spiked Amount	2.000		Recovery	=	95.150%	
7) Surrogate Recovery (FBP)	7.37	172	1135	1.66686	ppb	0.00
Spiked Amount	2.000		Recovery	=	83.350%	
17) Surrogate Recovery (TPH)	11.72	244	1210	1.53959	ppb	-0.04
Spiked Amount	2.000		Recovery	=	77.000%	
Target Compounds						
						Qvalue
3) Naphthalene	6.16	128	1881	0.97382	ppb	98
4) 2-Methylnaphthalene	6.96	142	916	0.80665	ppb	94
5) 1-Methylnaphthalene	7.05	142	1202	0.98738	ppb	89
8) Acenaphthylene	7.96	152	1632	0.94540	ppb	98
9) Acenaphthene	8.16	154	938	0.92237	ppb	91
10) Fluorene	8.79	166	1027	0.88422	ppb	98
12) Phenanthrene	9.90	178	1324	0.77703	ppb	99
13) Anthracene	9.97	178	1377	0.73529	ppb	98
14) Fluoranthene	11.28	202	2277	0.73437	ppb	# 94
16) Pyrene	11.54	202	2363	0.74909	ppb	97
18) Benz (a) anthracene	12.94	228	1529	0.86133	ppb	99
19) Chrysene	12.97	228	2071	0.89534	ppb	99
20) Indeno (1,2,3-cd) pyrene	16.12	276	1501	1.07861	ppb	# 92
22) Benzo (b) fluoranthene	14.13	252	1509	0.98690	ppb	# 96
23) Benzo (k) fluoranthene	14.16	252	1507	0.73463	ppb	96
24) Benzo (a) pyrene	14.51	252	1370	0.84844	ppb	98
25) Dibenz (a,h) anthracene	16.12	278	1169	1.13481	ppb	97
26) Benzo (g,h,i) perylene	16.58	276	1332	1.02070	ppb	98

Quantitation Report

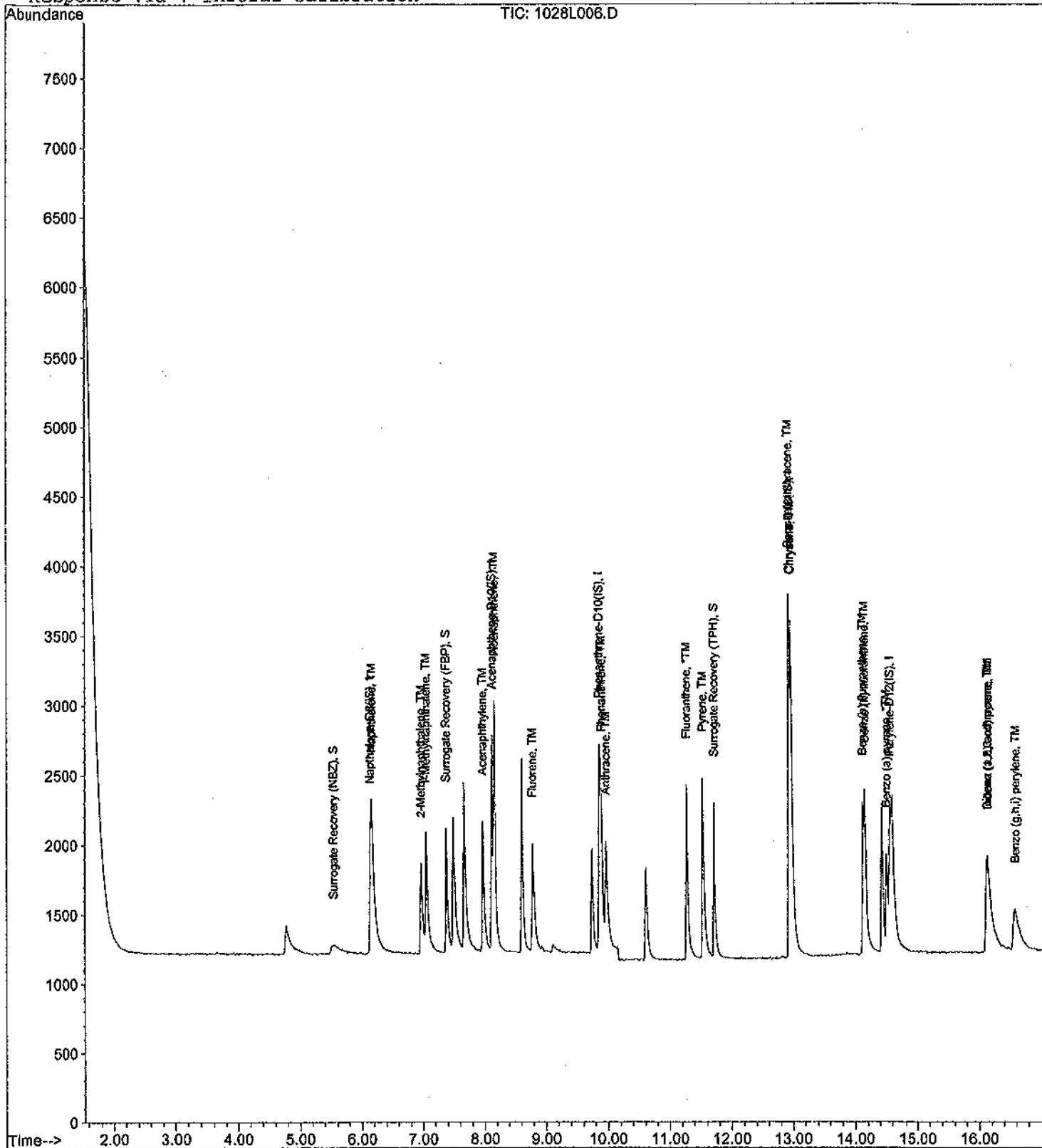
Data File : M:\LINUS\DATA\L111027\1028L006.D
Acq On : 28 Oct 11 11:32
Sample : 1.0ug/ml PAH
Misc :

Vial: 6
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 11:10 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 01 17:14:29 2011
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L111027\1028L007.D Vial: 7
 Acq On : 28 Oct 11 11:58 Operator: LF
 Sample : 5.0ug/ml PAH Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 30 10:40 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 30 10:38:04 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	6.12	136	2479	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	8.11	164	1083	2.50000	ppb	-0.02
11) Phenanthrene-D10 (IS)	9.85	188	1851	2.50000	ppb	-0.02
15) Chrysene-D12 (IS)	12.93	240	2378	2.50000	ppb	-0.04
21) Perylene-D12 (IS)	14.56	264	1871	2.50000	ppb	-0.04
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.42	82	1947	7.24379	ppb	-0.12
Spiked Amount	2.000		Recovery	=	362.200%	
7) Surrogate Recovery (FBP)	7.35	172	4731	6.98644	ppb	-0.02
Spiked Amount	2.000		Recovery	=	349.300%	
17) Surrogate Recovery (TPH)	11.71	244	5216	6.83493	ppb	-0.05
Spiked Amount	2.000		Recovery	=	341.750%	
Target Compounds						
3) Naphthalene	6.14	128	7358	3.65875	ppb	99
4) 2-Methylnaphthalene	6.93	142	4331	3.66320	ppb	98
5) 1-Methylnaphthalene	7.04	142	4683	3.69477	ppb	97
8) Acenaphthylene	7.95	152	6597	3.84274	ppb	100
9) Acenaphthene	8.15	154	3814	3.77124	ppb	92
10) Fluorene	8.76	166	4219	3.65257	ppb	99
12) Phenanthrene	9.87	178	5443	3.21854	ppb	98
13) Anthracene	9.94	178	5527	2.97363	ppb	99
14) Fluoranthene	11.26	202	9367	3.04387	ppb	98
16) Pyrene	11.51	202	9724	3.17462	ppb	97
18) Benz (a) anthracene	12.91	228	6027	3.49657	ppb	98
19) Chrysene	12.96	228	9422	4.19498	ppb	99
20) Indeno (1,2,3-cd) pyrene	16.06	276	6554	4.85029	ppb	95
22) Benzo (b) fluoranthene	14.10	252	6693	4.75397	ppb	# 96
23) Benzo (k) fluoranthene	14.14	252	6995	3.70332	ppb	99
24) Benzo (a) pyrene	14.49	252	6259	4.20974	ppb	98
25) Dibenz (a,h) anthracene	16.08	278	5075	5.35048	ppb	97
26) Benzo (g,h,i) perylene	16.51	276	5423	4.51321	ppb	98

Quantitation Report

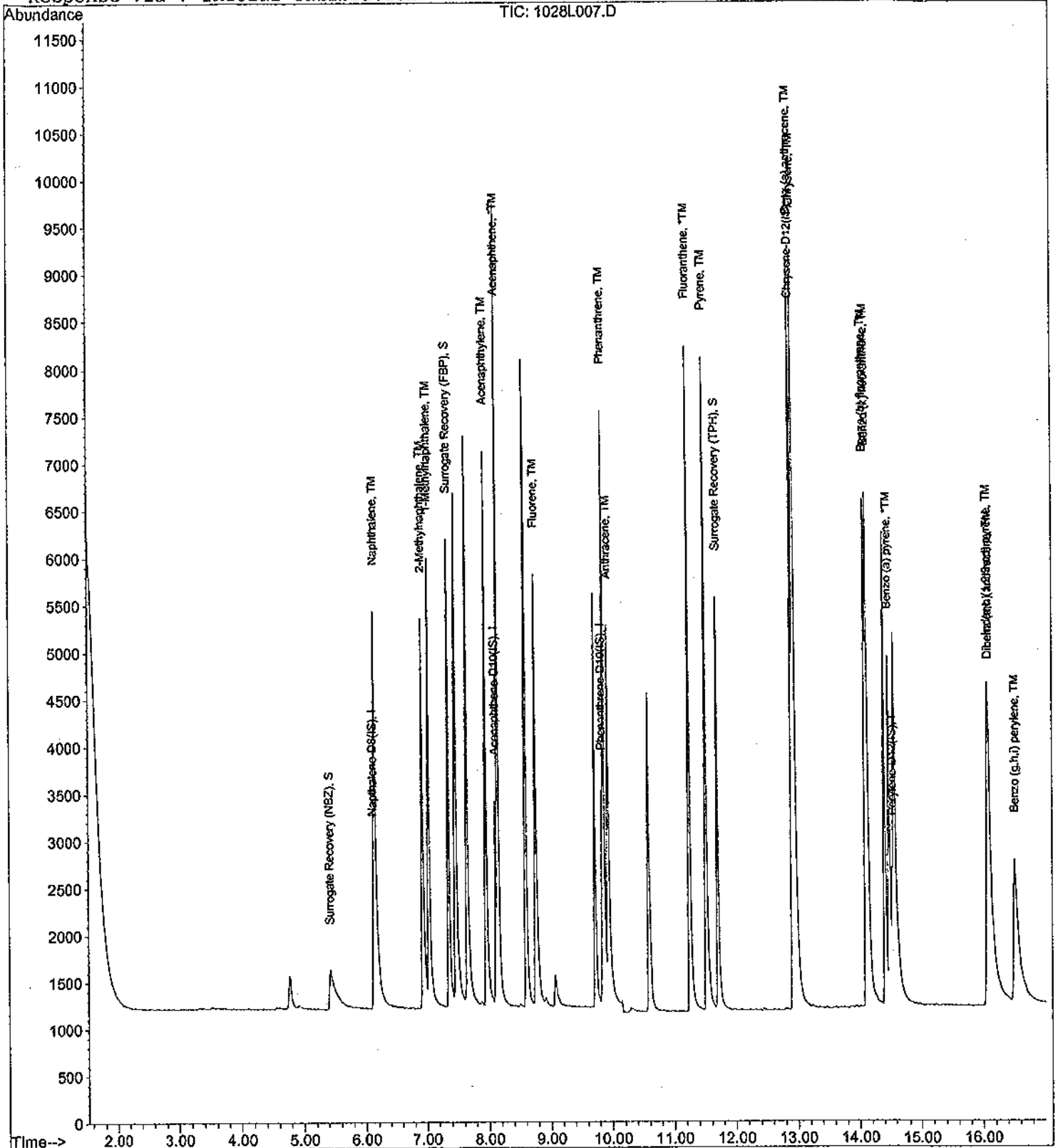
Data File : M:\LINUS\DATA\L111027\1028L007.D
Acq On : 28 Oct 11 11:58
Sample : 5.0ug/ml PAH
Misc :

Vial: 7
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 10:40 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 01 17:14:29 2011
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L111027\1028L008.D Vial: 8
 Acq On : 28 Oct 11 12:23 Operator: LF
 Sample : 10ug/ml PAH Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 30 10:41 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 30 10:38:04 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	6.12	136	2419	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	8.11	164	1154	2.50000	ppb	-0.02
11) Phenanthrene-D10 (IS)	9.85	188	1800	2.50000	ppb	-0.02
15) Chrysene-D12 (IS)	12.91	240	2580	2.50000	ppb	-0.05
21) Perylene-D12 (IS)	14.55	264	2113	2.50000	ppb	-0.05
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.38	82	3973	14.84926	ppb	-0.16
Spiked Amount	2.000		Recovery	=	742.450%	
7) Surrogate Recovery (FBP)	7.35	172	9747	13.50818	ppb	-0.02
Spiked Amount	2.000		Recovery	=	675.400%	
17) Surrogate Recovery (TPH)	11.70	244	11014	13.30251	ppb	-0.06
Spiked Amount	2.000		Recovery	=	665.150%	
Target Compounds						
						Qvalue
3) Naphthalene	6.13	128	16688	8.50390	ppb	99
4) 2-Methylnaphthalene	6.92	142	9930	8.60721	ppb	100
5) 1-Methylnaphthalene	7.02	142	10317	8.34175	ppb	92
8) Acenaphthylene	7.95	152	15071	8.23870	ppb	99
9) Acenaphthene	8.15	154	8403	7.79759	ppb	97
10) Fluorene	8.75	166	9496	7.71528	ppb	98
12) Phenanthrene	9.87	178	12375	7.52487	ppb	99
13) Anthracene	9.93	178	12631	6.98825	ppb	99
14) Fluoranthene	11.25	202	21698	7.25069	ppb	# 93
16) Pyrene	11.50	202	22373	6.73230	ppb	# 85
18) Benz (a) anthracene	12.91	228	14154	7.56854	ppb	100
19) Chrysene	12.95	228	21503	8.82425	ppb	99
20) Indeno (1,2,3-cd) pyrene	16.03	276	15698	10.70773	ppb	# 96
22) Benzo (b) fluoranthene	14.09	252	15772	9.91966	ppb	96
23) Benzo (k) fluoranthene	14.13	252	16351	7.66517	ppb	98
24) Benzo (a) pyrene	14.48	252	14853	8.84584	ppb	98
25) Dibenz (a,h) anthracene	16.05	278	12481	11.65147	ppb	96
26) Benzo (g,h,i) perylene	16.47	276	13167	9.70302	ppb	97

Quantitation Report

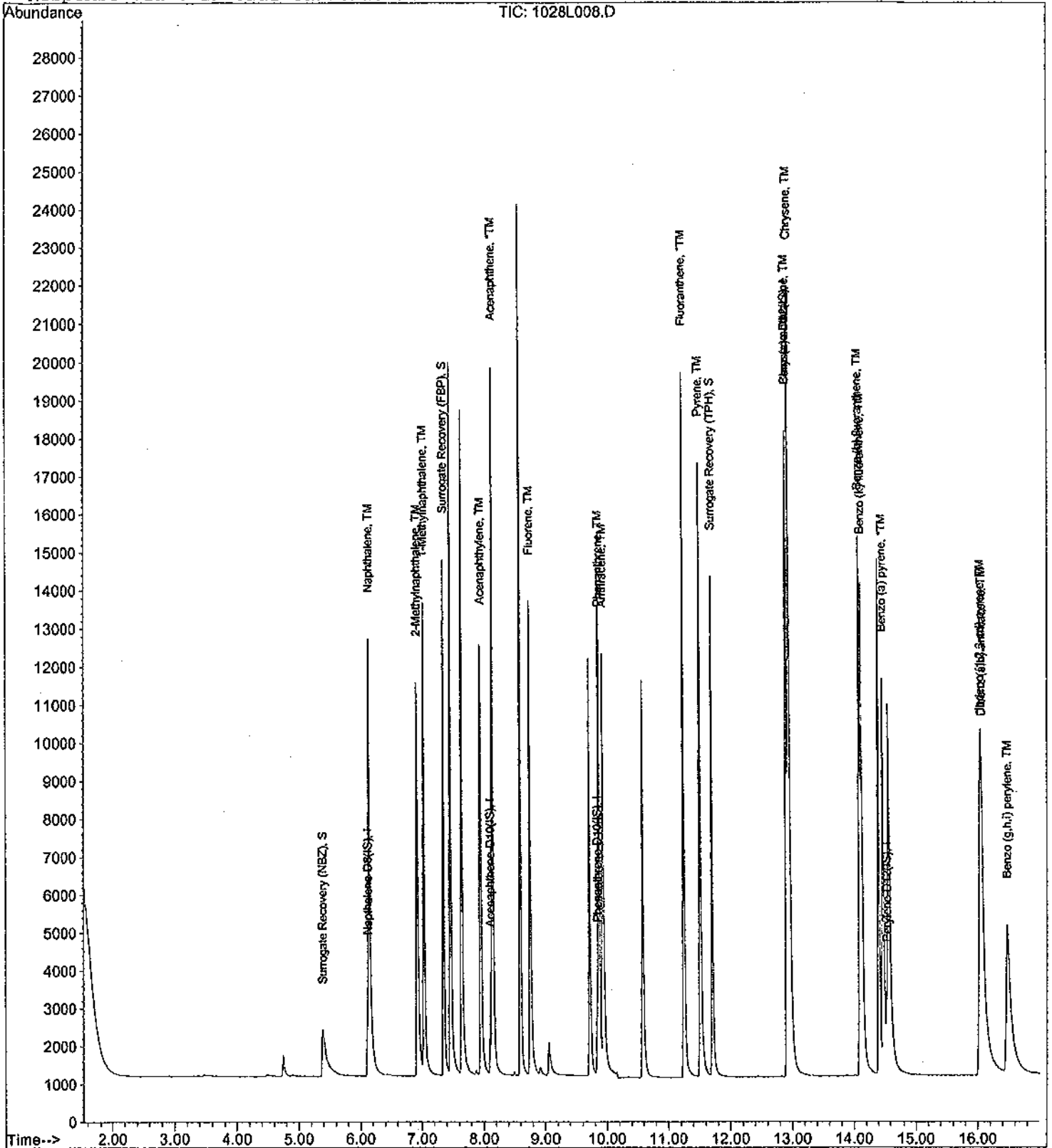
Data File : M:\LINUS\DATA\L111027\1028L008.D
Acq On : 28 Oct 11 12:23
Sample : 10ug/ml PAH
Misc :

Vial: 8
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 10:41 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 01 17:14:29 2011
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L111027\1028L009.D
 Acq On : 28 Oct 11 12:49
 Sample : 50ug/ml PAH
 Misc :

Vial: 9
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:41 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 30 10:41:31 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	6.11	136	2170	2.50000	ppb	-0.01
6) Acenaphthene-D10 (IS)	8.11	164	955	2.50000	ppb	-0.02
11) Phenanthrene-D10 (IS)	9.84	188	1764	2.50000	ppb	-0.04
15) Chrysene-D12 (IS)	12.91	240	2325	2.50000	ppb	-0.05
21) Perylene-D12 (IS)	14.54	264	1951	2.50000	ppb	-0.06
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.34	82	19569	80.30257	ppb	0.00
Spiked Amount	2.000		Recovery	= 4015.150%		
7) Surrogate Recovery (FBP)	7.34	172	37203	62.30259	ppb	-0.04
Spiked Amount	2.000		Recovery	= 3115.150%		
17) Surrogate Recovery (TPH)	11.70	244	43552	58.37048	ppb	-0.06
Spiked Amount	2.000		Recovery	= 2918.500%		
Target Compounds						
						Qvalue
3) Naphthalene	6.12	128	64981	36.91273	ppb	98
4) 2-Methylnaphthalene	6.92	142	39285	37.95912	ppb	91
5) 1-Methylnaphthalene	7.02	142	37731	34.00777	ppb	98
8) Acenaphthylene	7.94	152	59152	39.07406	ppb	100
9) Acenaphthene	8.13	154	32228	36.13782	ppb	90
10) Fluorene	8.75	166	36584	35.91740	ppb	95
12) Phenanthrene	9.86	178	48574	30.13920	ppb	99
13) Anthracene	9.92	178	49934	28.19038	ppb	99
14) Fluoranthene	11.23	202	84927	28.95874	ppb	# 86
16) Pyrene	11.50	202	87985	29.37950	ppb	93
18) Benz (a) anthracene	12.90	228	63776	37.84310	ppb	99
19) Chrysene	12.94	228	76944	35.03889	ppb	99
20) Indeno (1,2,3-cd) pyrene	16.01	276	67886	51.38427	ppb	97
22) Benzo (b) fluoranthene	14.09	252	68863	46.90706	ppb	# 96
23) Benzo (k) fluoranthene	14.12	252	60905	30.92236	ppb	100
24) Benzo (a) pyrene	14.45	252	61841	39.88811	ppb	# 94
25) Dibenz (a,h) anthracene	16.02	278	54590	55.19334	ppb	99
26) Benzo (g,h,i) perylene	16.44	276	56362	44.98303	ppb	98

Quantitation Report

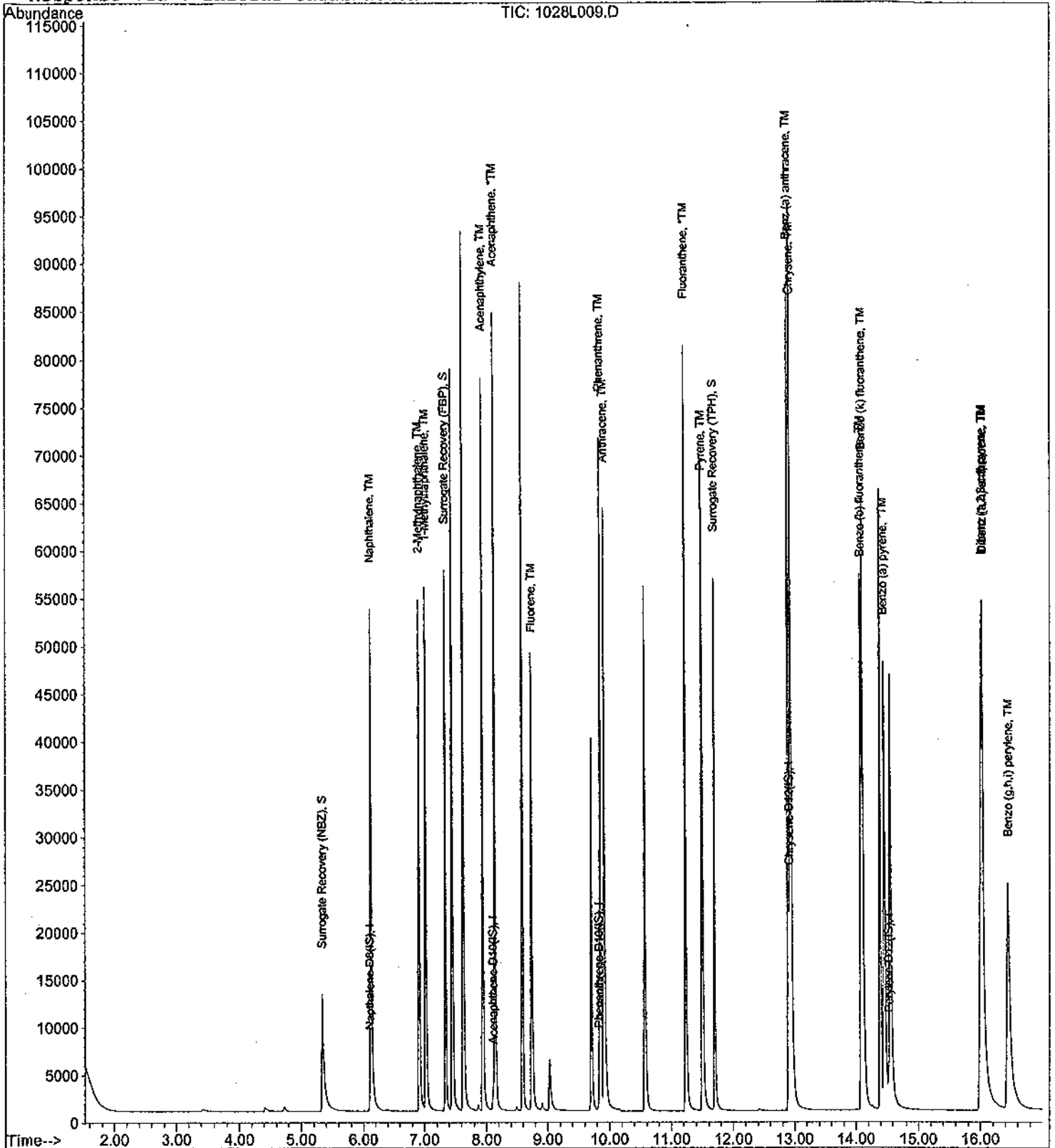
Data File : M:\LINUS\DATA\L111027\1028L009.D
Acq On : 28 Oct 11 12:49
Sample : 50ug/ml PAH
Misc :

Vial: 9
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 10:41 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 01 17:14:29 2011
Response via : Initial Calibration



Data File : M:\LINUS\DATA\L111027\1028L010.D
 Acq On : 28 Oct 11 13:14
 Sample : 100ug/ml PAH
 Misc :

Vial: 10
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Oct 30 10:42 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111028\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 30 10:41:31 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Naphthalene-D8 (IS)	6.11	136	2028	2.50000	ppb	-0.01
6) Acenaphthene-D10 (IS)	8.11	164	919	2.50000	ppb	-0.02
11) Phenanthrene-D10 (IS)	9.84	188	1786	2.50000	ppb	-0.04
15) Chrysene-D12 (IS)	12.91	240	2218	2.50000	ppb	-0.05
21) Perylene-D12 (IS)	14.54	264	1949	2.50000	ppb	-0.06
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.32	82	39811	174.48341	ppb	-0.01
Spiked Amount	2.000					Recovery = 8724.150%
7) Surrogate Recovery (FBP)	7.34	172	68503	119.21355	ppb	-0.04
Spiked Amount	2.000					Recovery = 5960.700%
17) Surrogate Recovery (TPH)	11.70	244	80239	112.72808	ppb	-0.06
Spiked Amount	2.000					Recovery = 5636.400%
Target Compounds						
3) Naphthalene	6.12	128	118023	71.73782	ppb	Qvalue 98
4) 2-Methylnaphthalene	6.92	142	72350	74.80311	ppb	91
5) 1-Methylnaphthalene	7.02	142	67525	65.12327	ppb	99
8) Acenaphthylene	7.94	152	108807	74.69023	ppb	99
9) Acenaphthene	8.13	154	58631	68.31936	ppb	89
10) Fluorene	8.75	166	64716	66.02573	ppb	95
12) Phenanthrene	9.86	178	89156	54.63809	ppb	98
13) Anthracene	9.92	178	91266	50.88980	ppb	98
14) Fluoranthene	11.23	202	154470	52.02296	ppb	# 84
16) Pyrene	11.50	202	164055	57.42311	ppb	# 90
18) Benz (a) anthracene	12.90	228	140011	87.08694	ppb	99
19) Chrysene	12.94	228	127613	60.91607	ppb	# 95
20) Indeno (1,2,3-cd) pyrene	16.02	276	133093	105.60065	ppb	# 87
22) Benzo (b) fluoranthene	14.09	252	126697	86.39011	ppb	96
23) Benzo (k) fluoranthene	14.12	252	120651	61.31914	ppb	# 94
24) Benzo (a) pyrene	14.47	252	119503	77.15982	ppb	95
25) Dibenz (a,h) anthracene	16.03	278	107509	108.80876	ppb	91
26) Benzo (g,h,i) perylene	16.44	276	112699	90.03841	ppb	99

Quantitation Report

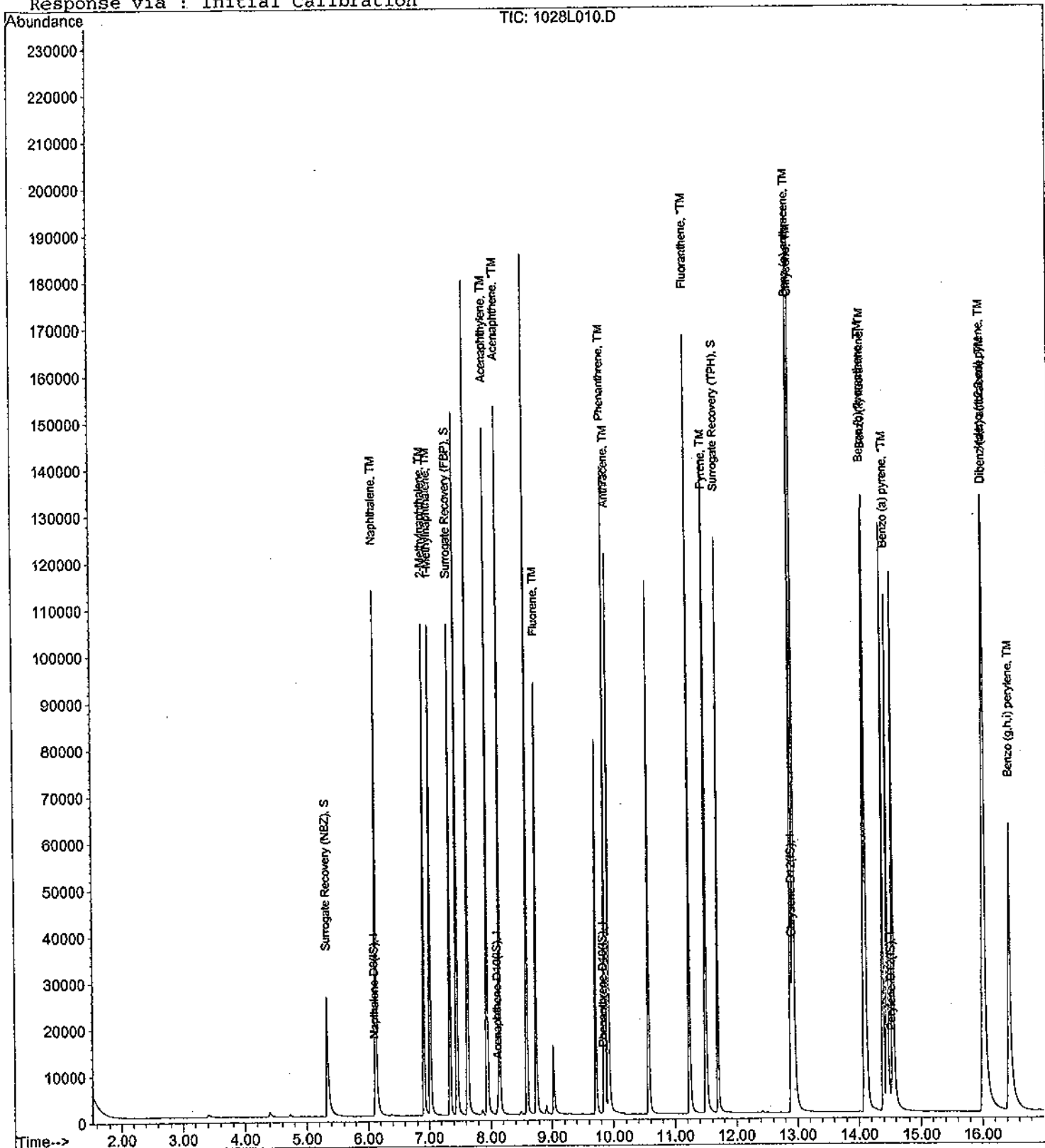
Data File : M:\LINUS\DATA\L111027\1028L010.D
Acq On : 28 Oct 11 13:14
Sample : 100ug/ml PAH
Misc :

Vial: 10
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 10:42 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 01 17:14:29 2011
Response via : Initial Calibration



EPA 8270C SIM

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
 Case No: _____
 Matrix: _____

SDG No: 6686
 Date Analyzed: 10/28/11
 Instrument: Linus
 Initial Cal. Date: 10/27/11
 Data File: 1028L011.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	Napthalene-D8(IS)	ISTD			I
2	TM	Napthalene	1.742	1.546	11	TM
3	TM	2-Methylnapthalene	0.8931	0.8782	1.7	TM
4	TM	1-Methylnapthalene	1.031	1.007	2.4	TM
5	I	Acenaphthene-D10(IS)	ISTD			I
6	TM	Acenaphthylene	3.327	3.132	5.8	TM
7	*TM	Acenaphthene	1.904	1.812	4.8	*TM
8	TM	Fluorene	2.083	1.993	4.3	TM
9	I	Phenanthrene-D10(IS)	ISTD			I
10	TM	Phenanthrene	1.609	1.555	3.4	TM
11	TM	Anthracene	1.634	1.624	0.64	TM
12	*TM	Fluoranthene	2.792	2.916	4.4	*TM
13	I	Chrysene-D12(IS)	ISTD			I
14	TM	Pyrene	2.200	2.429	10	TM
15	TM	Benz (a) anthracene	1.449	1.392	3.9	TM
16	TM	Chrysene	1.939	2.190	13	TM
17	TM	Indeno (1,2,3-cd) pyrene	1.502	1.468	2.3	TM
18	I	Perylene-D12(IS)	ISTD			I
19	TM	Benzo (b) fluoranthene	1.761	1.686	4.3	TM
20	TM	Benzo (k) fluoranthene	1.823	2.176	19	TM
21	*TM	Benzo (a) pyrene	1.723	1.689	1.9	*TM
22	TM	Dibenz (a,h) anthracene	1.447	1.354	6.4	TM
23	TM	Benzo (g,h,i) perylene	1.525	1.483	2.8	TM
24						
25						
26						
27						
28						
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36						
37						
38						
39						
40						

Average

5.7

Data File : M:\LINUS\DATA\L111027\1028L011.D Vial: 11
 Acq On : 28 Oct 11 13:40 Operator: LF
 Sample : 5.0ug/ml SS PAH 10-27-11 Inst : Linus
 Misc : Multiplr: 1.00

Quant Time: Oct 30 11:17 2011 Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Sun Oct 30 11:15:17 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	6.13	136	2295	2.50000	ppb	0.01
6) Acenaphthene-D10 (IS)	8.11	164	1033	2.50000	ppb	0.00
11) Phenanthrene-D10 (IS)	9.85	188	1773	2.50000	ppb	0.00
15) Chrysene-D12 (IS)	12.93	240	2205	2.50000	ppb	0.00
21) Perylene-D12 (IS)	14.56	264	1840	2.50000	ppb	0.00
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	0.00	82	0d	0.00000	ppb	
Spiked Amount	2.000		Recovery	=	0.000%	
7) Surrogate Recovery (FBP)	0.00	172	0d	0.00000	ppb	
Spiked Amount	2.000		Recovery	=	0.000%	
17) Surrogate Recovery (TPH)	0.00	244	0d	0.00000	ppb	
Spiked Amount	2.000		Recovery	=	0.000%	
Target Compounds						
3) Naphthalene	6.14	128	7095	4.43732	ppb	99
4) 2-Methylnaphthalene	6.93	142	4031	4.91655	ppb	99
5) 1-Methylnaphthalene	7.04	142	4620	4.88168	ppb	94
8) Acenaphthylene	7.95	152	6471	4.70758	ppb	99
9) Acenaphthene	8.15	154	3744	4.75904	ppb	91
10) Fluorene	8.76	166	4117	4.78272	ppb	99
12) Phenanthrene	9.87	178	5514	4.83130	ppb	99
13) Anthracene	9.94	178	5757	4.96794	ppb	98
14) Fluoranthene	11.26	202	10339	5.22192	ppb	93
16) Pyrene	11.51	202	10711	5.51952	ppb	# 91
18) Benz (a) anthracene	12.93	228	6140	4.80346	ppb	99
19) Chrysene	12.96	228	9659	5.64891	ppb	99
20) Indeno (1,2,3-cd) pyrene	16.06	276	6475	4.88617	ppb	# 91
22) Benzo (b) fluoranthene	14.12	252	6204	4.78607	ppb	99
23) Benzo (k) fluoranthene	14.14	252	8006	5.96784	ppb	# 65
24) Benzo (a) pyrene	14.49	252	6217	4.90268	ppb	97
25) Dibenz (a,h) anthracene	16.08	278	4984	4.68078	ppb	96
26) Benzo (g,h,i) perylene	16.52	276	5458	4.86160	ppb	99

Quantitation Report

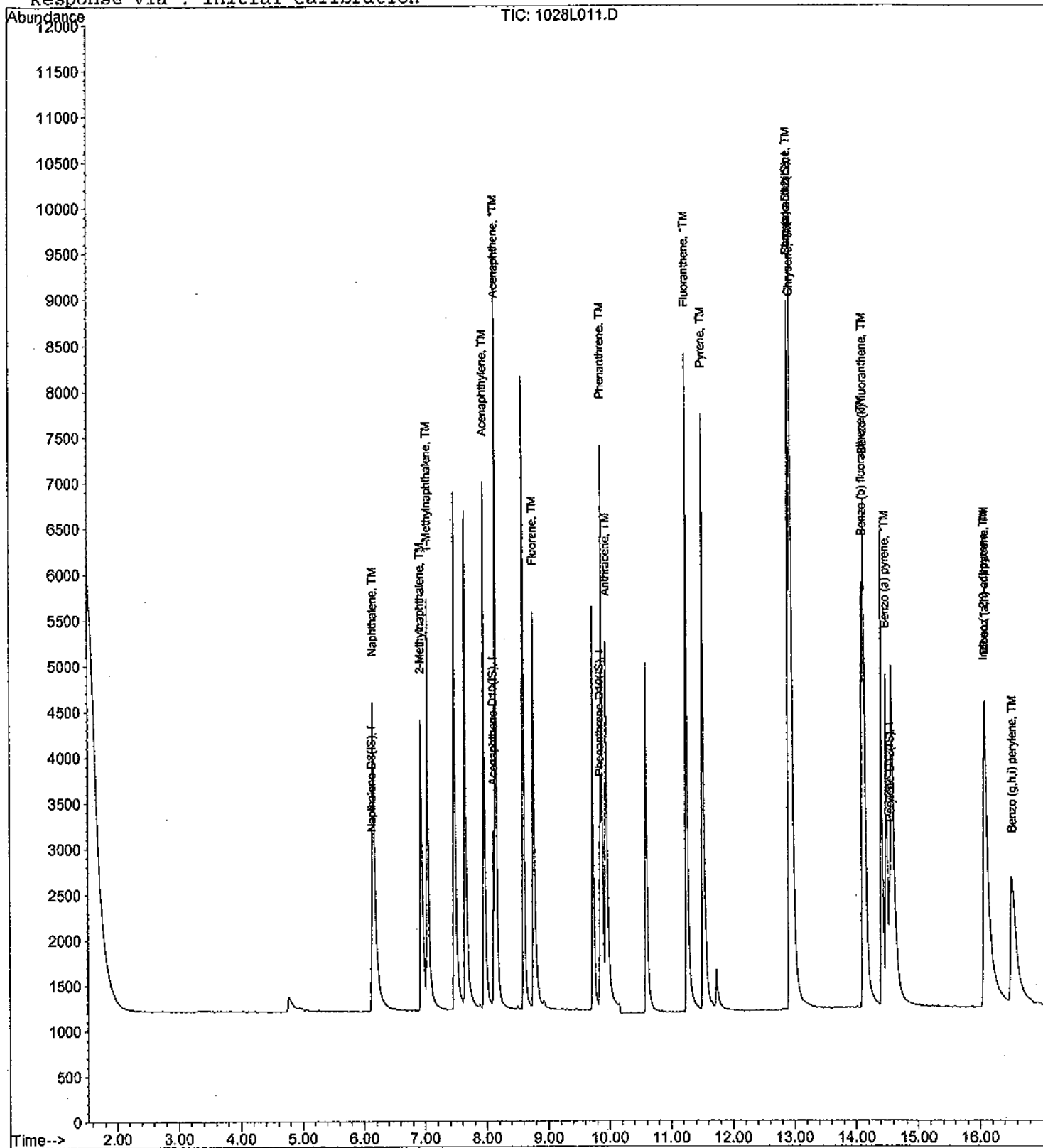
Data File : M:\LINUS\DATA\L111027\1028L011.D
Acq On : 28 Oct 11 13:40
Sample : 5.0ug/ml SS PAH 10-27-11
Misc :

Vial: 11
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Oct 30 11:17 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Tue Nov 01 17:14:29 2011
Response via : Initial Calibration



EPA 8270C SIM

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
 Case No: _____
 Matrix: _____

SDG No: 66186
 Date Analyzed: 11/10/11
 Instrument: Linus
 Initial Cal. Date: 10/27/11
 Data File: 1110L002.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	Naphthalene-D8(IS)	ISTD			I
2	S	Surrogate Recovery (NBZ)	0.4477	0.4015	10	S
3	TM	Naphthalene	1.742	1.470	16	TM
4	TM	2-Methylnaphthalene	0.8931	0.8840	1.0	TM
5	TM	1-Methylnaphthalene	1.031	0.9079	12	TM
6	I	Acenaphthene-D10(IS)	ISTD			I
7	S	Surrogate Recovery (FBP)	2.229	2.071	7.1	S
8	TM	Acenaphthylene	3.327	3.238	2.7	TM
9	*TM	Acenaphthene	1.904	1.746	8.3	*TM
10	TM	Fluorene	2.083	2.044	1.9	TM
11	I	Phenanthrene-D10(IS)	ISTD			I
12	TM	Phenanthrene	1.609	1.508	6.3	TM
13	TM	Anthracene	1.634	1.617	1.0	TM
14	*TM	Fluoranthene	2.792	2.787	0.19	*TM
15	I	Chrysene-D12(IS)	ISTD			I
16	TM	Pyrene	2.200	2.083	5.3	TM
17	S	Surrogate Recovery (TPH)	1.077	1.022	5.0	S
18	TM	Benz (a) anthracene	1.449	1.573	8.6	TM
19	TM	Chrysene	1.939	1.844	4.9	TM
20	TM	Indeno (1,2,3-cd) pyrene	1.502	1.639	9.1	TM
21	I	Perylene-D12(IS)	ISTD			I
22	TM	Benzo (b) fluoranthene	1.761	1.584	10	TM
23	TM	Benzo (k) fluoranthene	1.823	2.060	13	TM
24	*TM	Benzo (a) pyrene	1.723	1.711	0.72	*TM
25	TM	Dibenz (a,h) anthracene	1.447	1.553	7.4	TM
26	TM	Benzo (g,h,i) perylene	1.525	1.540	0.94	TM
27						
28						
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32						
33						
34						
35						
36						
37						
38						
39						
40						

Average

6.3

Data File : M:\LINUS\DATA\L111027\1110L002.D
 Acq On : 10 Nov 11 19:22
 Sample : 5.0ug/ml PAH 10-27-11
 Misc :

Vial: 2
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Nov 11 15:32 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Nov 09 14:09:04 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Naphthalene-D8 (IS)	6.12	136	2263	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	8.12	164	971	2.50000	ppb	0.01
11) Phenanthrene-D10 (IS)	9.86	188	1712	2.50000	ppb	0.01
15) Chrysene-D12 (IS)	12.94	240	2411	2.50000	ppb	0.01
21) Perylene-D12 (IS)	14.58	264	2087	2.50000	ppb	0.02
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.40	82	1817	4.48316	ppb	0.00
Spiked Amount	2.000		Recovery	=	224.150%	
7) Surrogate Recovery (FBP)	7.35	172	4021	4.64528	ppb	0.00
Spiked Amount	2.000		Recovery	=	232.250%	
17) Surrogate Recovery (TPH)	11.72	244	4930	4.74872	ppb	0.01
Spiked Amount	2.000		Recovery	=	237.450%	
Target Compounds						
						Qvalue
3) Naphthalene	6.14	128	6653	4.21973	ppb	99
4) 2-Methylnaphthalene	6.93	142	4001	4.94897	ppb	87
5) 1-Methylnaphthalene	7.04	142	4109	4.40313	ppb	88
8) Acenaphthylene	7.95	152	6288	4.86653	ppb	99
9) Acenaphthene	8.16	154	3390	4.58421	ppb	98
10) Fluorene	8.76	166	3969	4.90520	ppb	100
12) Phenanthrene	9.88	178	5165	4.68676	ppb	100
13) Anthracene	9.94	178	5537	4.94834	ppb	99
14) Fluoranthene	11.27	202	9541	4.99057	ppb	99
16) Pyrene	11.53	202	10042	4.73263	ppb	98
18) Benz (a) anthracene	12.93	228	7587	5.42835	ppb	96
19) Chrysene	12.97	228	8894	4.75709	ppb	98
20) Indeno (1,2,3-cd) pyrene	16.11	276	7902	5.45352	ppb	98
22) Benzo (b) fluoranthene	14.13	252	6610	4.49577	ppb	93
23) Benzo (k) fluoranthene	14.16	252	8599	5.65126	ppb	94
24) Benzo (a) pyrene	14.51	252	7140	4.96417	ppb	97
25) Dibenz (a,h) anthracene	16.11	278	6483	5.36798	ppb	94
26) Benzo (g,h,i) perylene	16.56	276	6427	5.04719	ppb	98

Quantitation Report

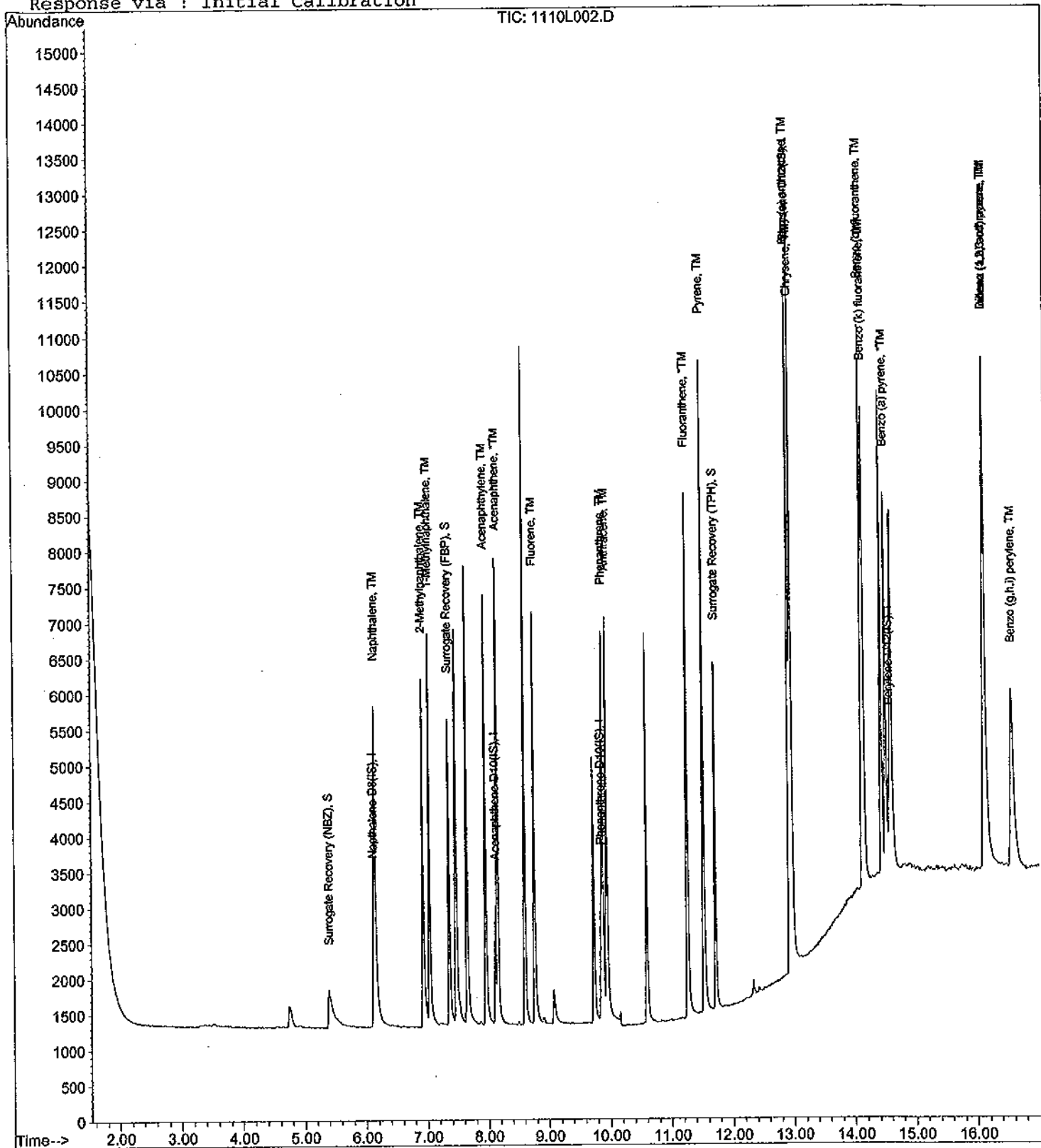
Data File : M:\LINUS\DATA\L111027\1110L002.D
 Acq On : 10 Nov 11 19:22
 Sample : 5.0ug/ml PAH 10-27-11
 Misc :

Vial: 2
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Nov 11 15:32 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 11 16:40:11 2011
 Response via : Initial Calibration



EPA METHOD 8270
Polynuclear Aromatic Hydrocarbons
Raw Data

Method Blank
EPA 8270D SIM

Blank Name/QCG: 111108W-50005 - 162179
Batch ID: #SIMHC-111108A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	2-METHYLNAPHTHALENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	ACENAPHTHENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	ACENAPHTHYLENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	11/08/11	11/10/11
BLANK	BENZO(A)ANTHRACENE	0.14 U	0.2	0.14	0.07	ug/L	11/08/11	11/10/11
BLANK	BENZO(A)PYRENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	BENZO(B)FLUORANTHENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	BENZO(GHI)PERYLENE	0.16 U	0.2	0.16	0.08	ug/L	11/08/11	11/10/11
BLANK	BENZO(K)FLUORANTHENE	0.14 U	0.2	0.14	0.07	ug/L	11/08/11	11/10/11
BLANK	CHRYSENE	0.10 U	0.2	0.10	0.05	ug/L	11/08/11	11/10/11
BLANK	DIBENZ(A,H)ANTHRACENE	0.10 U	0.2	0.10	0.05	ug/L	11/08/11	11/10/11
BLANK	FLUORANTHENE	0.16 U	0.2	0.16	0.08	ug/L	11/08/11	11/10/11
BLANK	FLUORENE	0.12 U	0.2	0.12	0.06	ug/L	11/08/11	11/10/11
BLANK	INDENO(1,2,3-CD)PYRENE	0.14 U	0.2	0.14	0.07	ug/L	11/08/11	11/10/11
BLANK	NAPHTHALENE	0.10 U	0.2	0.10	0.05	ug/L	11/08/11	11/10/11
BLANK	PHENANTHRENE	0.14 U	0.2	0.14	0.07	ug/L	11/08/11	11/10/11
BLANK	PYRENE	0.16 U	0.2	0.16	0.08	ug/L	11/08/11	11/10/11
BLANK	SURROGATE: 2-FLUORBIPHENY	55.5	50-110			%	11/08/11	11/10/11
BLANK	SURROGATE: NITROBENZENE-	54.3	40-110			%	11/08/11	11/10/11
BLANK	SURROGATE: TERPHENYL-D14 (	118	50-135			%	11/08/11	11/10/11

Quant Method: SIM2.M
Run #: 1110L003
Instrument: Linus
Sequence: L111027
Initials: LF

Data File : M:\LINUS\DATA\L111027\1110L003.D
 Acq On : 10 Nov 11 19:47
 Sample : 111108A BLK 1/1000
 Misc :

Vial: 3
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Nov 16 15:47 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Nov 09 14:09:04 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Napthalene-D8 (IS)	6.12	136	2288	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	8.12	164	1021	2.50000	ppb	0.01
11) Phenanthrene-D10 (IS)	9.86	188	1840	2.50000	ppb	0.01
15) Chrysene-D12 (IS)	12.95	240	2623	2.50000	ppb	0.02
21) Perylene-D12 (IS)	14.59	264	2235	2.50000	ppb	0.04
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.42	82	445	1.08597	ppb	0.02
Spiked Amount	2.000		Recovery	=	54.300%	
7) Surrogate Recovery (FBP)	7.36	172	1010	1.10967	ppb	0.01
Spiked Amount	2.000		Recovery	=	55.500%	
17) Surrogate Recovery (TPH)	11.72	244	2658	2.35334	ppb	0.01
Spiked Amount	2.000		Recovery	=	117.650%	

Target Compounds

Qvalue

Quantitation Report

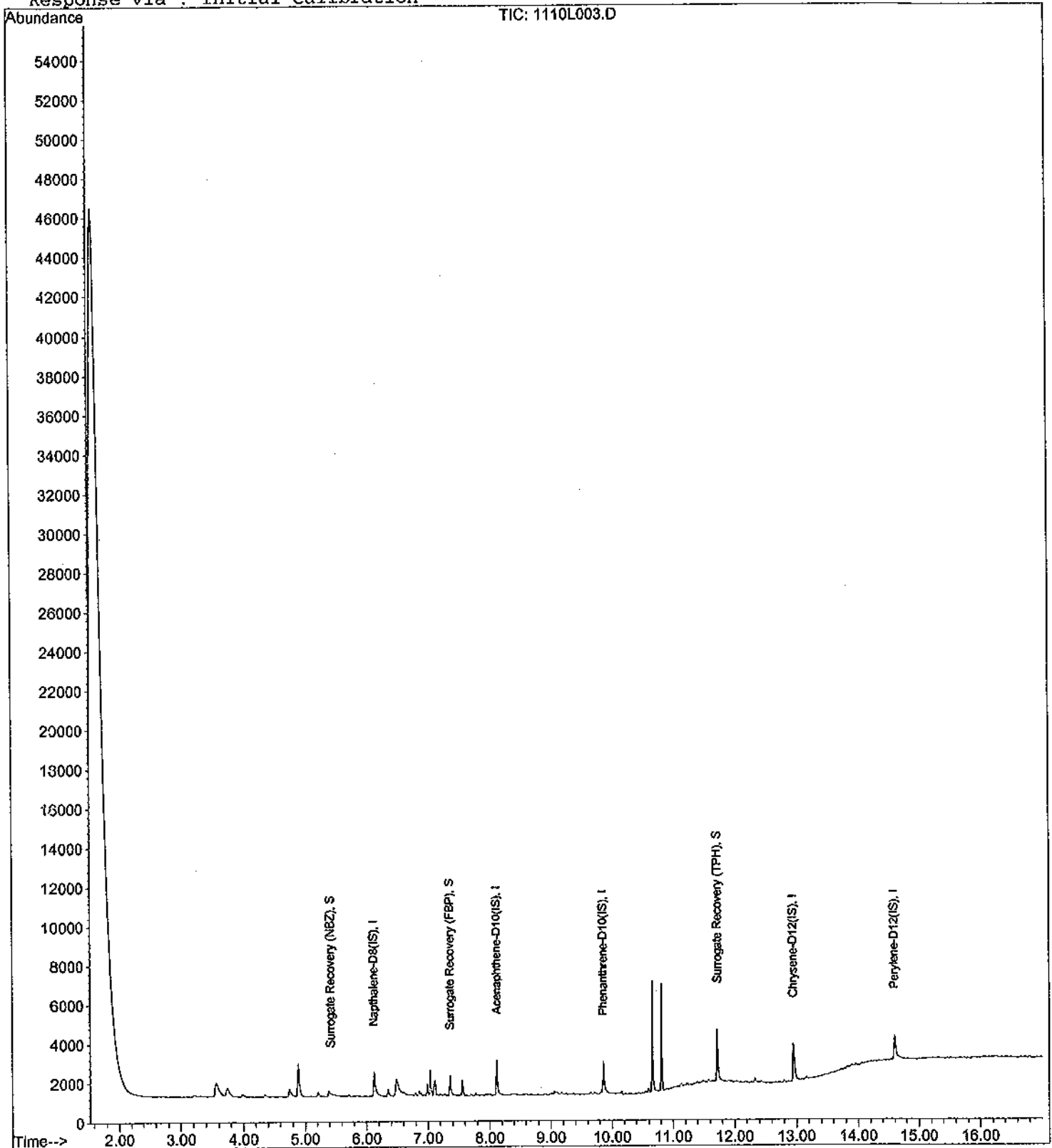
Data File : M:\LINUS\DATA\L111027\1110L003.D
Acq On : 10 Nov 11 19:47
Sample : 111108A BLK 1/1000
Misc :

Vial: 3
Operator: LF
Inst : Linus
Multiplr: 1.00

Quant Time: Nov 16 15:47 2011

Quant Results File: SIM2.RES

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Nov 11 16:40:11 2011
Response via : Initial Calibration



Laboratory Control Spike Recovery
EPA 8270D SIM

APPL ID: 111108W-50005 LCS - 162179
Batch ID: #SIMHC-111108A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1-METHYLNAPHTHALENE	4.00	2.49	62.3	45-105
2-METHYLNAPHTHALENE	4.00	2.53	63.2	45-105
ACENAPHTHENE	4.00	2.74	68.5	45-110
ACENAPHTHYLENE	4.00	2.50	62.5	50-105
ANTHRACENE	4.00	2.86	71.5	55-110
BENZO(A)ANTHRACENE	4.00	3.45	86.3	55-110
BENZO(A)PYRENE	4.00	2.73	68.3	55-110
BENZO(B)FLUORANTHENE	4.00	3.28	82.0	45-120
BENZO(GHI)PERYLENE	4.00	2.98	74.5	40-125
BENZO(K)FLUORANTHENE	4.00	2.78	69.5	45-125
CHRYSENE	4.00	2.59	64.8	55-110
DIBENZ(A,H)ANTHRACENE	4.00	3.11	77.8	40-125
FLUORANTHENE	4.00	3.05	76.3	55-115
FLUORENE	4.00	2.69	67.3	50-110
INDENO(1,2,3-CD)PYRENE	4.00	3.14	78.5	45-125
NAPHTHALENE	4.00	2.22	55.5	40-100
PHENANTHRENE	4.00	2.60	65.0	50-115
PYRENE	4.00	2.73	68.3	50-130

SURROGATE: 2-FLUORBIPHENYL (S)	2.00	1.05	52.5	50-110
SURROGATE: NITROBENZENE-D5 (S)	2.00	1.31	65.5	40-110
SURROGATE: TERPHENYL-D14 (S)	2.00	2.43	122	50-135

Comments:

<u>Primary</u>	<u>SPK</u>
Quant Method :	SIM2.M
Extraction Date :	11/08/11
Analysis Date :	11/10/11
Instrument :	Linus
Run :	1110L004
Initials :	LF

Printed: 12/09/11 6:52:20 PM

APPL Standard LCS

Data File : M:\LINUS\DATA\L111027\1110L004.D
 Acq On : 10 Nov 11 20:12
 Sample : 111108A LCS-1 1/1000
 Misc :

Vial: 4
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Nov 16 15:48 2011

Quant Results File: SIM2.RES

Quant Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Wed Nov 09 14:09:04 2011
 Response via : Initial Calibration
 DataAcq Meth : 87SIMAQ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Naphthalene-D8 (IS)	6.12	136	2376	2.50000	ppb	0.00
6) Acenaphthene-D10 (IS)	8.12	164	1055	2.50000	ppb	0.01
11) Phenanthrene-D10 (IS)	9.86	188	1891	2.50000	ppb	0.01
15) Chrysene-D12 (IS)	12.95	240	2640	2.50000	ppb	0.02
21) Perylene-D12 (IS)	14.58	264	2275	2.50000	ppb	0.02
System Monitoring Compounds						
2) Surrogate Recovery (NBZ)	5.42	82	558	1.31130	ppb	0.02
Spiked Amount	2.000		Recovery	=	65.550%	
7) Surrogate Recovery (FBP)	7.36	172	984	1.04626	ppb	0.01
Spiked Amount	2.000		Recovery	=	52.300%	
17) Surrogate Recovery (TPH)	11.72	244	2766	2.43319	ppb	0.01
Spiked Amount	2.000		Recovery	=	121.650%	
Target Compounds						
						Qvalue
3) Naphthalene	6.14	128	3669	2.21642	ppb	99
4) 2-Methylnaphthalene	6.93	142	2150	2.53293	ppb	88
5) 1-Methylnaphthalene	7.04	142	2442	2.49235	ppb	89
8) Acenaphthylene	7.95	152	3516	2.50451	ppb	97
9) Acenaphthene	8.16	154	2201	2.73938	ppb	98
10) Fluorene	8.76	166	2362	2.68672	ppb	100
12) Phenanthrene	9.88	178	3163	2.59845	ppb	100
13) Anthracene	9.94	178	3529	2.85528	ppb	97
14) Fluoranthene	11.27	202	6451	3.05489	ppb	100
16) Pyrene	11.53	202	6336	2.72704	ppb	94
18) Benz (a) anthracene	12.94	228	5275	3.44678	ppb	99
19) Chrysene	12.97	228	5311	2.59426	ppb	98
20) Indeno (1,2,3-cd) pyrene	16.12	276	4985	3.14194	ppb #	97
22) Benzo (b) fluoranthene	14.13	252	5262	3.28318	ppb	96
23) Benzo (k) fluoranthene	14.16	252	4619	2.78475	ppb	95
24) Benzo (a) pyrene	14.52	252	4276	2.72726	ppb	98
25) Dibenz (a,h) anthracene	16.12	278	4100	3.11430	ppb	95
26) Benzo (g,h,i) perylene	16.58	276	4130	2.97531	ppb	97

$\frac{3669 \times 2.5}{1.742 \times 2376} = 2.22$
 W=2.22/1.11

Quantitation Report

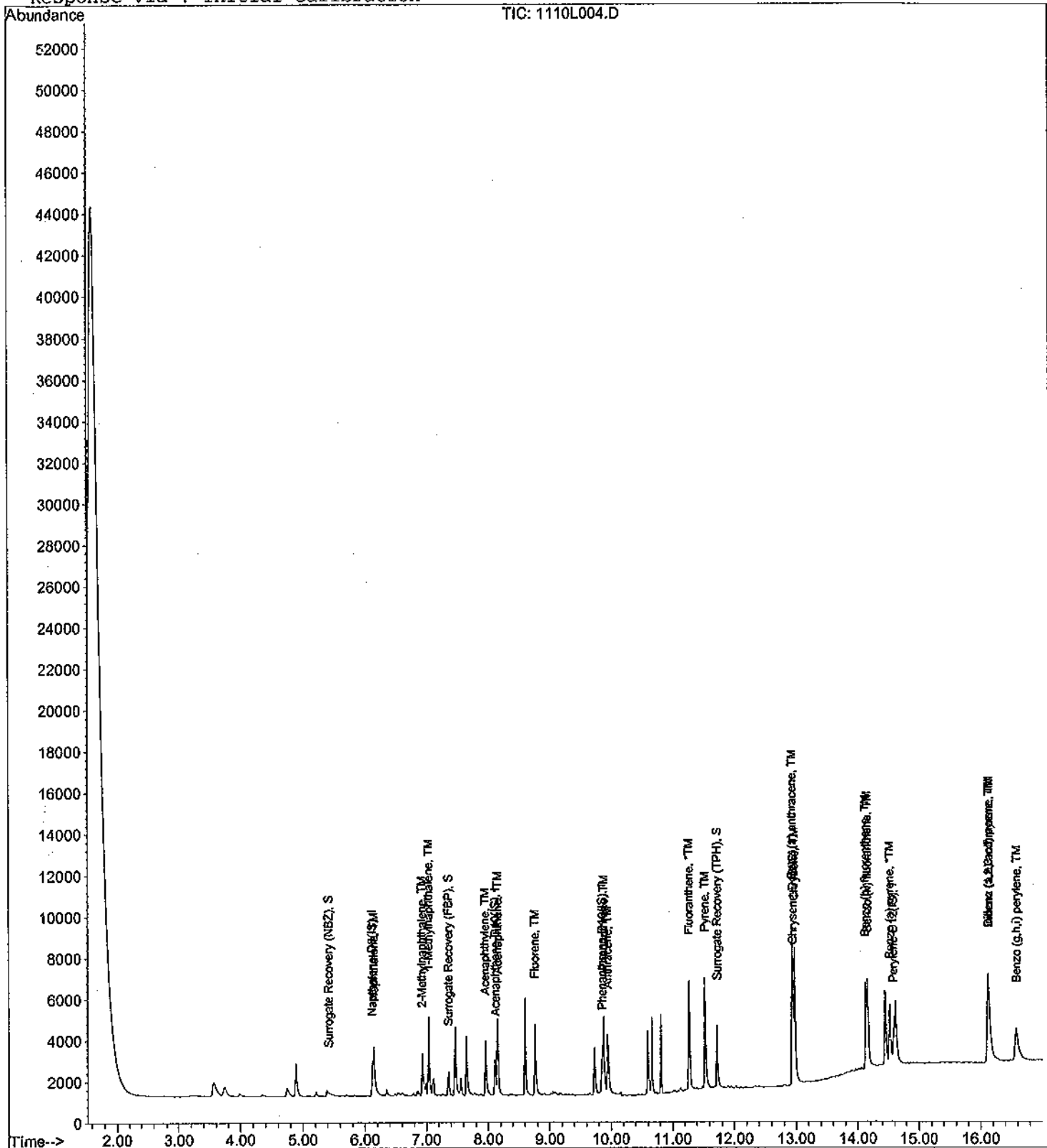
Data File : M:\LINUS\DATA\L111027\1110L004.D
 Acq On : 10 Nov 11 20:12
 Sample : 111108A LCS-1 1/1000
 Misc :

Vial: 4
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Quant Time: Nov 16 15:48 2011

Quant Results File: SIM2.RES

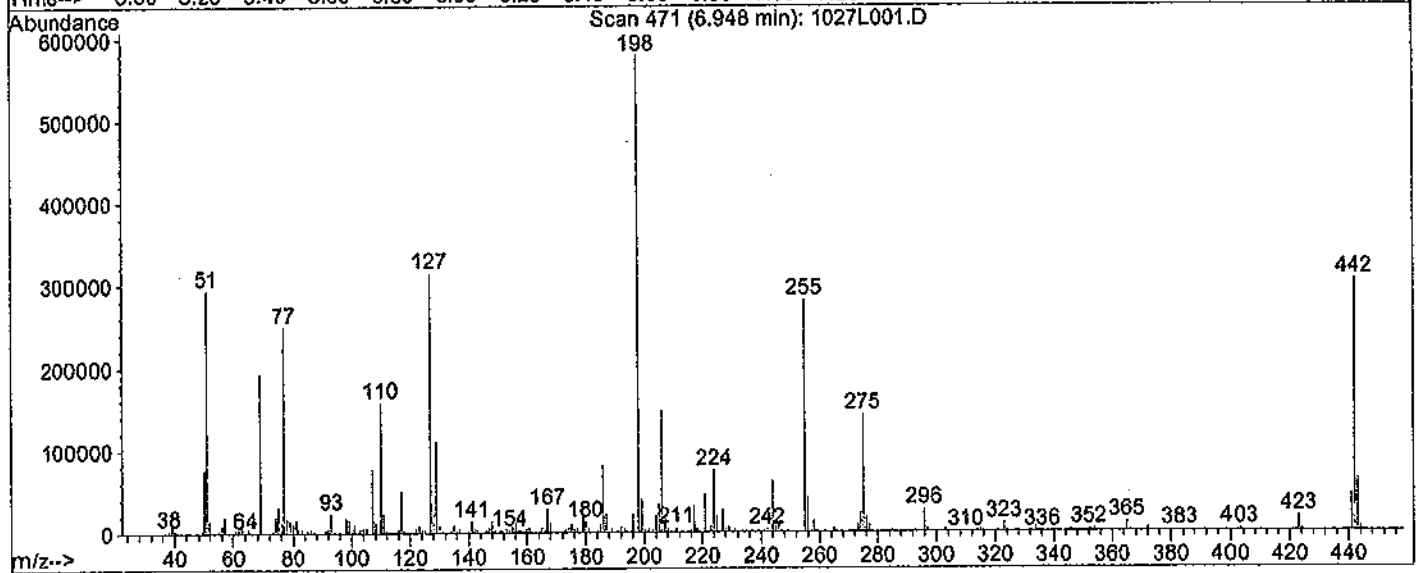
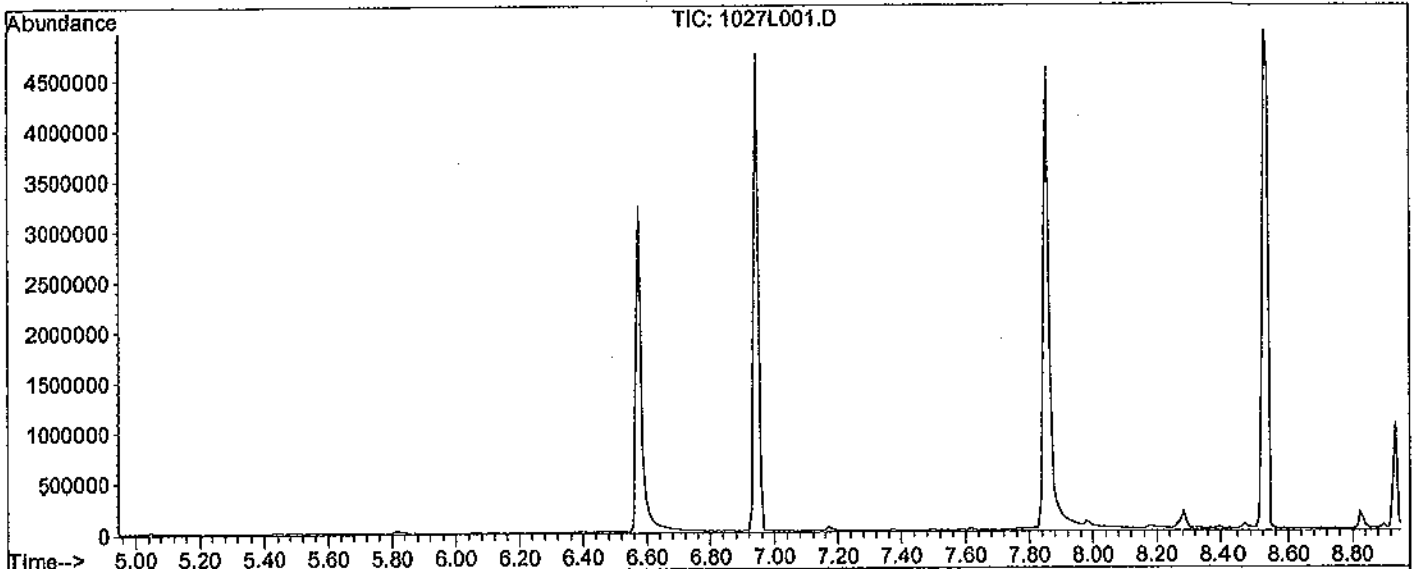
Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Nov 11 16:40:11 2011
 Response via : Initial Calibration



Data File : M:\LINUS\DATA\L111027\1027L001.D
 Acq On : 27 Oct 11 18:29
 Sample : SVTUNE 10-27-11
 Misc :

Vial: 1
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C



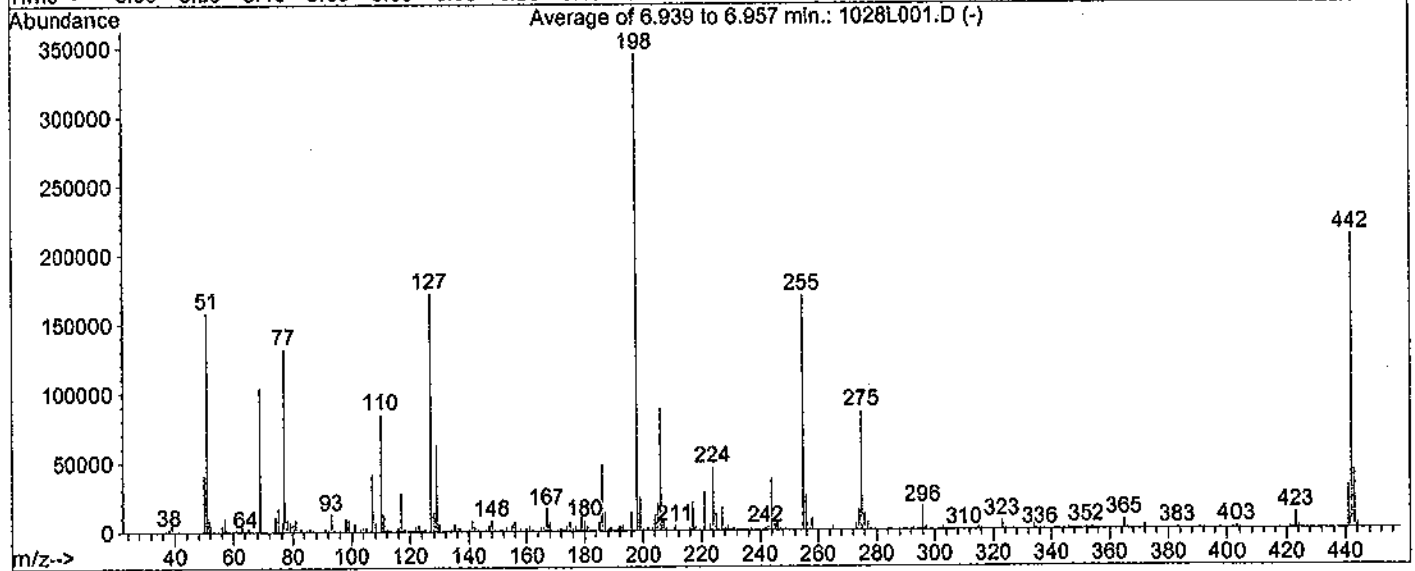
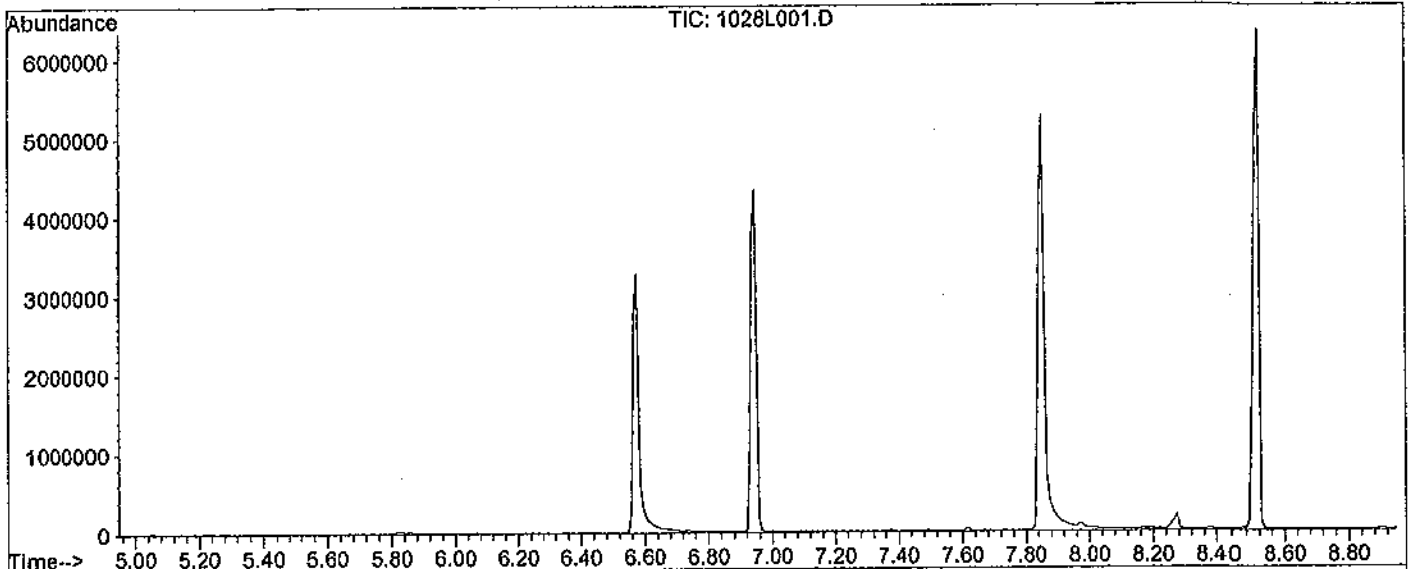
Spectrum Information: Scan 471

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	50.7	294016	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	1188	PASS
127	198	40	60	54.3	314624	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	579520	PASS
199	198	5	9	7.0	40304	PASS
275	198	10	30	24.5	141888	PASS
365	198	1	100	2.0	11470	PASS
441	443	0.01	100	70.8	44728	PASS
442	198	40	150	52.6	304768	PASS
443	442	17	23	20.7	63176	PASS

Data File : M:\LINUS\DATA\L111027\1028L001.D
 Acq On : 28 Oct 11 9:32
 Sample : SVTUNE 10-27-11
 Misc :

Vial: 1
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C



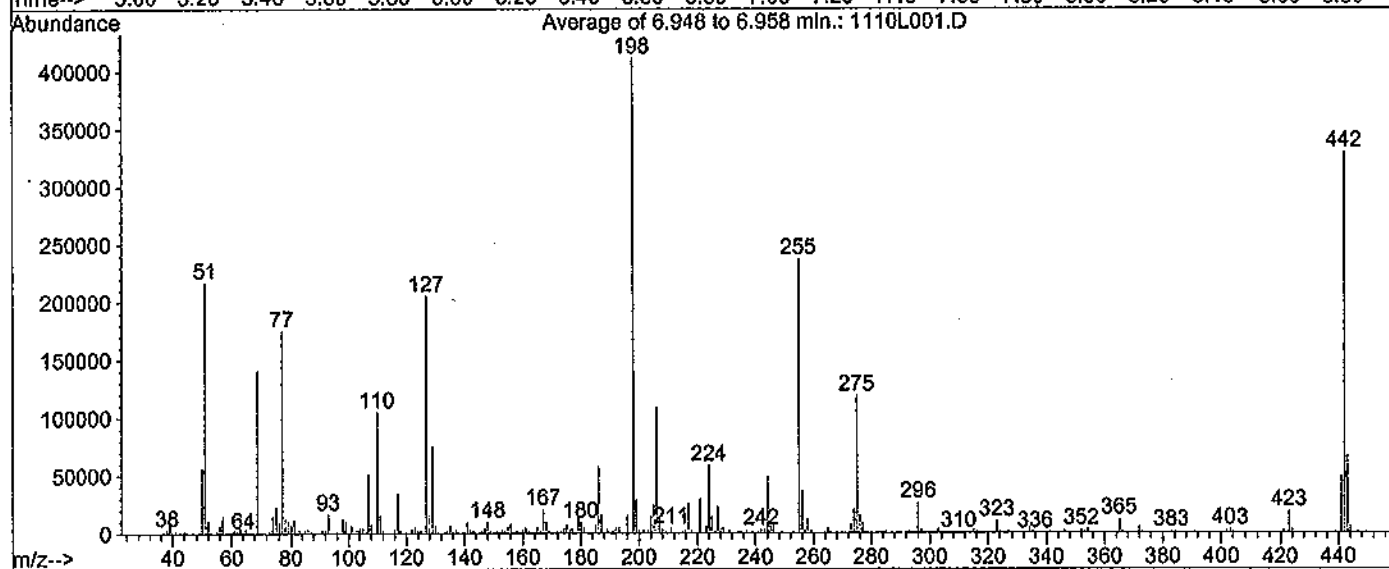
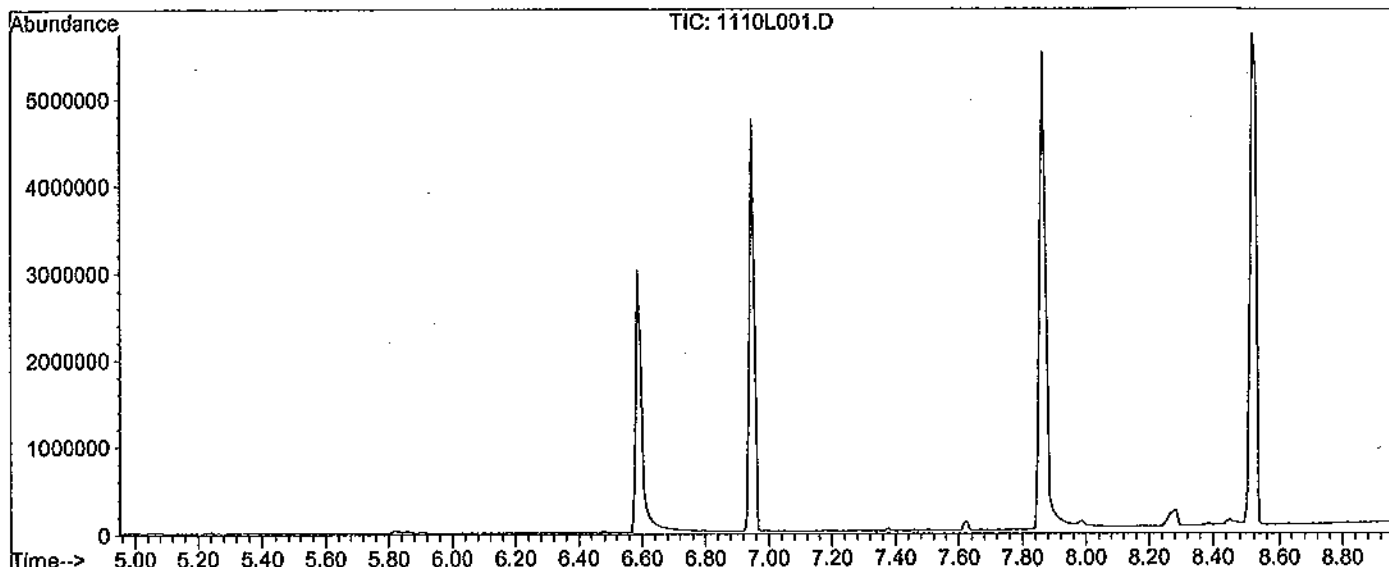
Spectrum Information: Average of 6.939 to 6.957 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.8	158326	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.5	519	PASS
127	198	40	60	49.8	171922	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	345360	PASS
199	198	5	9	7.1	24580	PASS
275	198	10	30	24.8	85541	PASS
365	198	1	100	2.0	6987	PASS
441	443	0.01	100	74.7	31248	PASS
442	198	40	150	61.5	212309	PASS
443	442	17	23	19.7	41843	PASS

Data File : M:\LINUS\DATA\L111027\1110L001.D
 Acq On : 10 Nov 11 19:03
 Sample : SVTUNE 10-27-11
 Misc :

Vial: 1
 Operator: LF
 Inst : Linus
 Multiplr: 1.00

Method : M:\LINUS\DATA\L111027\SIM2.M (RTE Integrator)
 Title : EPA 8270C



Spectrum Information: Average of 6.948 to 6.958 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	52.6	216764	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.1	196	PASS
127	198	40	60	49.8	205180	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	411840	PASS
199	198	5	9	6.9	28568	PASS
275	198	10	30	28.8	118564	PASS
365	198	1	100	2.8	11726	PASS
441	443	0.01	100	74.8	49384	PASS
442	198	40	150	79.8	328608	PASS
443	442	17	23	20.1	66016	PASS

VF 11/7/11

PREP DATE: 01-17-11							
8270C Stock/Spike Standard							
Exp:	05-29-11						
Supplier	ID #	Conc.	Lot #	Date	CODE:	P	
		µg/mL		Code	Exp. Date	µL	
Absolute	10001	2000	032009-28092	01/17/11	03-20-12	1000	
Absolute	10001	2000	032009-28091	01/17/11	03-20-12	1000	
Absolute	10002	2000	073109-27974	01/17/11	07-31-12	1000	
Absolute	10002	2000	073109-27973	01/17/11	07-31-12	1000	
Absolute	10004	2000	101509-27979	01/17/11	10-15-14	1000	
Absolute	10004	2000	101509-27978	01/17/11	10-15-14	1000	
Absolute	10005	2000	061209-27984	01/17/11	06-12-14	1000	
Absolute	10005	2000	061209-27983	01/17/11	06-12-14	1000	
Absolute	10006	2000	120810-27989	01/17/11	12-08-13	1000	
Absolute	10006	2000	120810-27988	01/17/11	12-08-13	1000	
Absolute	10007	2000	100909-28010	01/17/11	10-09-14	1000	
Absolute	10007	2000	100909-28013	01/17/11	10-09-14	1000	
Absolute	10018	2000	073109-27994	01/17/11	07-31-14	1000	
Absolute	10018	2000	073109-27993	01/17/11	07-31-14	1000	
Absolute	70023	1000	080310-28008	01/17/11	08-03-15	1000	
Absolute	70023	1000	080310-28009	01/17/11	08-03-15	1000	
Absolute	82705	2000	121010-27999	01/17/11	12-10-13	1000	
Absolute	82705	2000	121010-27998	01/17/11	12-10-13	1000	
Absolute	94552	2000	052908-28004	01/17/11	05-29-11	1000	
Absolute	94552	2000	052908-28003	01/17/11	05-29-11	1000	
					Final Vol.	20000	

VF 4/27/11

PREP DATE: 01-25-11																											
8270T STANDARD CURVE																											
Exp:	02-24-11					0.1		0.2		1		5		10		20		40		50		60		80		100	
Supplier	ID #	Conc.	Lot #	Date	Exp. Date	µL	µL	µL	µL	µL	µL	µL	µL	µL	µL	µL	µL	µL	µL	µL	µL	µL	µL	µL	µL	µL	µL
8270T Stock	200			12/17/10	05-29-11	0	0	0	5	5	10	20	25	30	40	50											
5.0ug/mL				01/25/11		0	0	20	0	0	0	0	0	0	0	0											
1.0ug/mL				01/25/11		10	20	0	0	0	0	0	0	0	0	0											
Surrogate Stock	VAR	160518-27570		11/11/10	11-11-11	0	0	0	5	5	10	20	25	30	40	50											
EK Science	Methylene Chloride	47080				30	80	80	190	90	80	60	50	40	20	0											
					Final Vol.			100	200	100	100	100	100	100	100	100											

VF 1/27/11

PREP DATE: 01-25-11							
8270 Second Source (SS) 50ug/mL							
Supplier	ID #	Conc.	Lot #	Date	CODE:	P	
		µg/mL		Code	Exp. Date	µL	
8270C SS	200			10/06/10	10-06-11	25	
EK Science	Methylene Chloride		47080			75	
					Final Vol.	100	

VF 1/20/11

Method 8270 Internal
Standard Solution, 2,000
mg/L, 1 mL
110001-02
Lot # Storage Expiry
167768 3-10 Degree C 4/20/13
Solv: Methylene Chloride
8270 Internal Standard
Lot #: 167768 - 28148
Rec: 1/20/11 MFR exp. 04/20/13


app 1/25/12

VF 4/27/11

Method 8270 Internal
Standard Solution, 2,000
mg/L, 1 mL
110001-02
Lot # Storage Expiry
167768 3-10 Degree C 4/20/13
Solv: Methylene Chloride
8270 Internal Standard
Lot #: 167768 - 28147
Rec: 1/20/11 MFR exp. 04/20/13


app 4/27/12

W 3/23/11

Part #: 94552 Laboratory Use Only-See MSDS
 Lot #: 052908 Exp: 052911 1 mL
 Semi-Volatile Standard
 11 components Lot #: 052908 - 28001
 Varied ug/mL in Rec: 12/16/10 MFR exp. 05/29/11
ABSOLUTE STANDARDS


exp 5/29/11

W 3/23/11

Part #: 94552 Laboratory Use Only-See MSDS
 Lot #: 052908 Exp: 052911 1 mL
 Semi-Volatile Standard
 11 components Lot #: 052908 - 28002
 Varied ug/mL in Rec: 12/16/10 MFR exp. 05/29/11
ABSOLUTE STANDARDS


exp 5/29/11

W 3/23/11

Part #: 82705 Laboratory Use Only - See MSDS
 Lot #: 121010 Exp: 121013 Storage 4 °C
 EPA Method 8270A EPA Method 8270A-Mix#11
 4 components Lot #: 121010 - 27998
 2000 ug/mL in ace Rec: 12/16/10 MFR exp. 12/10/13
ABSOLUTE STANDARDS, INC.

exp 5/29/11

W 3/23/11

Part #: 82705 Laboratory Use Only - See MSDS
 Lot #: 121010 Exp: 121013 Storage 4 °C
 EPA Method 8270A - Mix #11
 4 components EPA Method 8270A-Mix#11
 2000 ug/mL in ace Lot #: 121010 - 27997
 Rec: 12/16/10 MFR exp. 12/10/13
ABSOLUTE STANDARDS

exp 5/29/11

W 3/23/11

PREP DATE:	03-23-11					
8270C Stock/Spike Standard						
Exp:	05-29-11					
Supplier	ID #	Conc. ug/mL	Lot #	Date Code	CODE: Exp. Date	P μL
Absolute	10001	2000	032009-28089	03/23/11	03-20-12	1000
Absolute	10001	2000	320009-28090	03/23/11	03-20-12	1000
Absolute	10002	2000	073109-27971	03/23/11	07-31-12	1000
Absolute	10002	2000	073109-27972	03/23/11	07-31-12	1000
Absolute	10004	2000	101509-27976	03/23/11	10-15-14	1000
Absolute	10004	2000	101509-27977	03/23/11	10-15-14	1000
Absolute	10005	2000	061209-27981	03/23/11	06-12-14	1000
Absolute	10005	2000	061209-27982	03/23/11	06-12-14	1000
Absolute	10006	2000	120810-27986	03/23/11	12-08-13	1000
Absolute	10006	2000	120810-27987	03/23/11	12-08-13	1000
Absolute	10007	2000	100909-28015	03/23/11	10-09-14	1000
Absolute	10007	2000	100909-28014	03/23/11	10-09-14	1000
Absolute	10018	2000	073109-27991	03/23/11	07-31-14	1000
Absolute	10018	2000	073109-27992	03/23/11	07-31-14	1000
Absolute	70023	1000	080310-28006	03/23/11	08-03-15	1000
Absolute	70023	1000	080310-28007	03/23/11	08-03-15	1000
Absolute	82705	2000	052908-28001	03/23/11	05-29-11	1000
Absolute	82705	2000	052908-28002	03/23/11	05-29-11	1000
Absolute	94552	2000	121010-27996	03/23/11	12-10-13	1000
Absolute	94552	2000	121010-27997	03/23/11	12-10-13	1000
					Final Vol	20000

W 3/23/11

9m IS exp 4/25/11
 1500µl EA Science MC Lot #47080
 100µl 8270 IS opened 4/25/11 exp 4/27/12

WF 3/28/11

o2si 8270 BN:A (200:400) Surrogate Solution, 1 ml
 110004-17 Storage: -10 Degrees C
 Made in USA Lot No: 160538 Solvent: Methylene Chloride
 Part: 4/10/1013
 Date Opened: 8270 BN:A (200:400) Surrogate Solution
 Lot #: 160538 - 27574
 Rec: 10/18/10 MFR exp. 08/10/12

WF exp 8/28/12

WF 3/28/11

PREP DATE: 03-28-11						UP										
8270T STANDARD CURVE																
Exp: 04-27-11						0.1	0.2	1	5	10	20	40	50	50	80	100
Supplier	ID #	Conc. µg/mL	Lot #	Date Code	Exp. Date	µL	µL	µL	µL	µL	µL	µL	µL	µL	µL	
8270T Stock		200		03/23/11	05-29-11	0	0	0	5	5	10	20	25	30	40	50
	5.0ug/mL			03/28/11		0	0	20	0	0	0	0	0	0	0	0
	1.0ug/mL			03/28/11		10	20	0	0	0	0	0	0	0	0	0
	Surrogate Stock	VAR	160538-27574	03/28/11	03-28-12	0	0	0	5	5	10	20	25	30	40	50
EM Science	Methylene Chloride		47080			90	80	80	190	90	80	60	50	40	20	0
Final Vol.						100	200	100	100	100	100	100	100	100	100	100

WF 3/28/11

PREP DATE: 03-28-11						50
8270 Second Source (SS) 50ug/mL						
Supplier	ID #	Conc. µg/mL	Lot #	Date Code	Exp. Date	µL
EM Science	Methylene Chloride		47080			75
Final Vol.						100

WF 4/18/11

GCM-150-1
 Lot: CF-2995
 Exp: 08/31/2011
 Semi-Volatiles GC/MS Tuning Standard
 4 analyte(s) at 1000 µg/mL in dichloromethane
 250 Smith St, Kingstown, NJ 08520 USA

ULTRA
 1 mL
 Semi-volatiles GC/MS Tuning Standard
 Lot #: CF-2995 - 26131
 Rec: 2/17/10 MFR exp. 08/31/11

WF exp 8/31/11

WF 4/13/11

PREP DATE: 04-23-11						
SV Tune Mix 50ug/mL						
Exp: 08-31-11						
Supplier	ID #	Conc. µg/mL	Lot #	Date Code	Exp. Date	µL
U. Scientific	GCM-150	1000	CF-2995-26131	04/13/11	08-31-11	1000
EM Science	MeCl2		47080			19000
Final Vol.						20000

exp 8/31/11

WF 4/20/11

8270D PAH SIM Solution,
 200 mg/L, 1 ml
 110780-01
 Lot # Storage Expiry
 170253 -5-10 Degree C 3/3/13
 Soln: Methylene Chloride

WF exp 4/20/12

8270D PAH SIM
 Lot #: 170253 - 28485
 Rec: 3/10/11 MFR exp. 3/3/2013

WF 4/20/11

8270D PAH SIM Solution,
 Second Source, 200 mg/L, 1 ml

exp 4/20/12

110780-01-SS
 Lot # Storage Expiry
 170254 -5-10 Degree C 3/3/13
 Soln: Methylene Chloride

8270D PAH SIM (SS)
 Lot #: 170256 - 28487
 Rec: 3/10/11 MFR exp. 3/3/2013

W8/16/11

PREP DATE:	08/16/11	exp:	08/23/11
10ug/mL 1,2,3-TCP			
50uL of 1000ug/mL 1,2,3 TCP into a final volume of 5mL of P&T Methanol			
1000ug/mL 1,2,3 TCP date code:			05/27/11
P & T Methanol Lot #			9077-02
PREP DATE:	08/16/11	exp:	08/23/11
1ug/mL 1,2,3-TCP			
5uL of 1000ug/mL 1,2,3 TCP into a final volume of 5mL of P&T Methanol			
1000ug/mL 1,2,3 TCP date code:			05/27/11
P & T Methanol Lot #			JT Baker H46E44
PREP DATE:	08/16/11	exp:	08/23/11
2ug/mL 1,2,3-TCPd5			
10uL of 2000ug/mL 1,2,3 TCP into a final volume of 10mL of P&T Methanol			
2000ug/mL 1,2,3 TCP-d5 date code:			05/27/11
P & T Methanol Lot #			9077-02

W8/16/11

8270 BN:A (200:400)
 Surrogate Solution, 1 ml
 110004-17
 Lot# Storage Xpiry
 167802 2-10 Degree C 15/13
 80% Methylene Chloride
 8270 BN:A (200:400) Surrogate Solution
 Lot #: 167802 - 29313
 Rec: 8/8/11 MFR exp. 01/09/13

W8/16/11

W8/16/11

PREP DATE:	08-22-11													
8270 STANDARD CURVE														
Exp:	08-29-11													
	Conc.			Date			5	10	20	40	50	60	80	100
Supplier	ID #	µg/mL	Lot #	Code	Exp. Date	µL	µL	µL	µL	µL	µL	µL	µL	µL
	8270T Stock	200		07/26/11	01-26-12	5	5	10	20	25	30	40	40	50
	Surrogate Stock	VAR	167802-29313	08/22/11	08-22-12	5	5	10	20	25	30	40	40	50
EM Science	Methylene Chloride		47186			190	90	80	60	50	40	20	0	0
					Final Vol.	200	100	100	100	100	100	100	100	100

W8/16/11

PREP DATE:	08-22-11													
8270 Second Source (SS) 50ug/mL														
	Conc.			Date			50							
Supplier	ID #	µg/mL	Lot #	Code	Exp. Date	µL								
	8270C SS	200		10/06/10	10-06-11	25								
EM Science	Methylene Chloride		47186			75								
					Final Vol.	100								

W8/16/11

PREP DATE:	09-21-11													
8270 SIM STANDARD CURVE														
	Conc.			Date			0.10	0.20	0.50	1.00	5.00	10.00	50.00	100.00
Supplier	ID #	µg/mL	Lot #	Code	Exp. Date	µL	A	A	C	D	E	F	G	H
	8270D PAH SIM	200	170253-28485	04/20/11	04-20-12	0	0	0	0	0	5	5	25	50
	5.0ug/mL	5		09/21/11		0	0	0	0	0	0	0	0	0
	1.0ug/mL	1		09/21/11		10	20	0	0	0	0	0	0	0
	Surrogate Stock	VAR	167802-29313	08/22/11	08-23-11	0	0	0	0	0	5	5	25	50
EM Science	Methylene Chloride		47186			90	80	90	80	190	90	50	0	0
					Final Vol.	100	100	100	100	200	100	100	100	100

VF 10/11/11

PREP DATE:	09-21-11						
SIM 8270 Second Source (5µg/mL)							
Exp:	10-05-11						
			Conc.	Date	CODE:		
Supplier	ID #	Lot #	µg/mL	Code	Exp. Date	µL	
	8270D PAH SIM (SS)	170256-28487	200	04/20/11	04-20-12	5	
	MeCl2		Lot # 47186				195
				Final Volume			200

VF 10/11/11

8270 BN Solution 14-4, 2,000 mg/L, 1 ml
o2si Cat. No: 110391-01 Exp: 4/17/2013
 Lot No: 158119 Storage: ≤ -10 Degrees C
 8270BN Solution 14-4 Solvent: Methylene Chloride
 Lot #: 158119 - 28021 For Research Use Only
 Rec: 12/18/10 MFR exp. 04/17/13 d: _____

VF exp 10/11/12

VF 10/11/11

8270 BN Solution 14-3, 2,000 mg/L, 1 ml
o2si Cat. No: 110392-01 Exp: 4/17/2013
 Lot No: 158120 Storage: ≤ -10 Degrees C
 8270BN Solution 14-3 Solvent: Methylene Chloride
 Lot #: 158120 - 28023 For Research Use Only
 Rec: 12/18/10 MFR exp. 04/17/13 d: _____

VF exp 10/11/12

VF 10/11/11

8270 Acid Solution 4-6, 2,000 mg/L, 1 ml
o2si Cat. No: 110393-01 Exp: 4/17/2013
 Lot No: 158121 Storage: ≤ -10 Degrees C
 8270B Acid Solution 4-6 Solvent: Methylene Chloride
 Lot #: 158121 - 28025 For Research Use Only
 Rec: 12/18/10 MFR exp. 04/17/13 d: _____

VF exp 10/11/12

VF 10/11/11

TCL Hazardous Substances Solution 2, 2,000 mg/L, 1 ml
o2si Cat. No: 110394-01 Exp: 4/17/2013
 Lot No: 158122 Storage: ≤ -10 Degrees C
 TCL Haz. Soln. 2 Solvent: Methylene Chloride
 Lot #: 158122 - 28018 For Research Use Only
 Rec: 12/18/10 MFR exp. 04/17/13 d: _____

VF exp 10/11/12

VF 10/11/11

PAH Solution 17-3, 2,000 mg/L, 1 ml
o2si Cat. No: 116070-02 Exp: 4/17/2013
 Lot No: 158123 Storage: ≤ -10 Degrees C
 PAH Solution Solvent: Methylene Chloride
 Lot #: 158123 - 28027 For Research Use Only
 Rec: 12/18/10 MFR exp. 07/17/13 d: _____

VF exp 10/11/12

VF 10/11/11

8270 Acid Solution 13-4, 2,000 mg/L, 1 ml
o2si Cat. No: 110396-01 Exp: 4/17/2013
 Lot No: 158124 Storage: ≤ -10 Degrees C
 8270 Acid Solution 13-4 Solvent: Methylene Chloride
 Lot #: 158124 - 28029 For Research Use Only
 Rec: 12/18/10 MFR exp. 04/17/13 d: _____

VF exp 10/11/12

1/20/11

8270 BN Solution 4-21, 2,000 mg/L, 1 ml
02si Cat. No: 110395-01 Exp: 4/17/2013
 Lot No: 158125 Storage: ≤ -10 Degrees C
 8270BN Solution 4-21 Solvent: Methylene Chloride
 Lot #: 158125 - 28031 ion For Research Use Only
 Rec: 12/16/10 MFR exp. 04/17/13 opened: _____

UK exp 10/12/11

1/20/11

8270 11 Compound Custom Mix, 200:2,000 mg/L, 1 ml
02si Cat. No: 110397-01 Exp: 4/12/2012
 Lot No: 158127 Storage: ≤ -10 Degrees C
 8270 11 Compound Mix Solvent: Methylene Chloride
 Lot #: 158127 - 28033 ion For Research Use Only
 Rec: 12/16/10 MFR exp. 04/12/12 opened: _____

UK exp 4/12/12

1/20/11

Atrazine Solution, 1,000 mg/L, 1 ml
02si Cat. No: 010337-01 Exp: 4/12/2012
 Lot No: 158126 Storage: ≤ -10 Degrees C
 Atrazine Solvent: Methylene Chloride
 Lot #: 158126 - 28019 ion For Research Use Only
 Rec: 12/16/10 MFR exp. 04/12/12 opened: _____

UK exp 4/12/12

1/20/11

PREP DATE:	10-11-11																		
8270C Second Source Stock Standard																			
Exp:	04-12-12																		
Supplier	ID #	Conc. $\mu\text{g/mL}$	Lot #	Date	Code	Exp. Date	μL												
O2SI	110391-01	2000	158119-28021	10-11-11		04-17-13	1000												
O2SI	110392-01	2000	158120-28023	10-11-11		04-17-13	1000												
O2SI	110393-01	2000	158121-28025	10-11-11		04-17-13	1000												
O2SI	110394-01	2000	158122-28018	10-11-11		04-17-13	1000												
O2SI	116070-02	2000	158123-28027	10-11-11		04-17-13	1000												
O2SI	110395-01	2000	158125-28031	10-11-11		04-17-13	1000												
O2SI	110396-01	2000	158124-28029	10-11-11		04-17-13	1000												
O2SI	110397-01	2000	158127-28033	10-11-11		04-12-12	1000												
O2SI	010337-01	1000	158126-28019	10-11-11		04-12-12	1000												
EM Science	MeCl2		47186				1000												
							Final Vol	10000											

1/20/11

PREP DATE:	10-11-11																		
8270 STANDARD CURVE																			
Exp:	10-18-11																		
Supplier	ID #	Conc. $\mu\text{g/mL}$	Lot #	Date	Code	Exp. Date	μL	μL	μL	μL	μL	μL	μL	μL	μL	μL	μL	μL	μL
	8270T Stock	200		07/26/11		01-26-12	5	5	10	20	25	30	40	50					
	Surrogate Stock	VAR	167802-29313	08/22/11		08-22-12	5	5	10	20	25	30	40	50					
EM Science	Methylene Chloride		47186				190	90	80	60	50	40	20	0					
							Final Vol.	200	100	100	100	100	100	100	100	100	100	100	100

1/20/11

PREP DATE:	10-11-11																		
8270 Second Source (SS) 50ug/mL																			
Supplier	ID #	Conc. $\mu\text{g/mL}$	Lot #	Date	Code	Exp. Date	μL												
EM Science	8270C SS	200		10/11/11		04-12-12	25												
EM Science	Methylene Chloride		47186				75												
							Final Vol.	100											


UK 10/11/11

GCM-180-1
 Lot: CH-2137
 Exp: 07/31/2013
 Semi-Volatiles GC/MS Tuning Standard
 4 analyte(s) at 1000 $\mu\text{g/mL}$ in dichloromethane




50 $\mu\text{g/mL}$ SU Tune mix
 1ml of GCM-180-1 opened into 100 μL into 100 μL EM Science MC Lot 47186
 exp 10/11/11 10/11/12

exp 10/18/12

Part #: 10001 Laboratory Use Only - See MSDS
 Lot #: 042910 Exp: 042913 Storage 0 °C
 CLP Semi-Volatiles Base/Neutrals Mix #1
 14 components
 2000 ug/mL in methy
 ABSOLUTE STANDARD


exp 10/18/12

exp 10/18/12

Part #: 10001 Laboratory Use Only - See MSDS
 Lot #: 042910 Exp: 042913 Storage 0 °C
 CLP Semi-Volatiles Base/Neutrals Mix #1
 14 components
 2000 ug/mL in m
 ABSOLUTE STANDAR


exp 10/18/12

exp 7/31/12

Part #: 10002 Laboratory Use Only - See MSDS
 Lot #: 073109 Exp: 073112 Storage 4 °C
 CLP Semi-Volatiles Base/Neutrals Mix #2
 14 components
 2000 ug/mL in methyle
 ABSOLUTE STANDARDS


exp 7/31/12

exp 7/31/12

Part #: 10002 Laboratory Use Only - See MSDS
 Lot #: 073109 Exp: 073112 Storage 4 °C
 CLP Semi-Volatiles Base/Neutrals Mix #2
 14 components
 2000 ug/mL in met
 ABSOLUTE STANDAR


exp 7/31/12

exp 10/18/12

Part #: 10004 Laboratory Use Only - See MSDS
 Lot #: 101509 Exp: 101514 Storage 4 °C
 CLP Semi-Volatiles Toxic Substances #1
 4 components
 2000 ug/mL in methyl
 ABSOLUTE STANDARD


exp 10/18/12

exp 10/15/14

Part #: 10004 Laboratory Use Only - See MSDS
 Lot #: 101509 Exp: 101514 Storage 4 °C
 CLP Semi-Volatiles Toxic Substances #1
 4 components
 2000 ug/mL in met
 ABSOLUTE STANDAR


exp 10/15/14

exp 10/18/12

Part #: 10005 Laboratory Use Only - See MSDS
 Lot #: 061209 Exp: 061214 Storage 4 °C
 CLP Semi-Volatiles Toxic Substances #2
 8 components
 2000 ug/mL in methy
 ABSOLUTE STANDARD


exp 10/18/12

exp 10/18/12

Part #: 10005 Laboratory Use Only - See MSDS
 Lot #: 121208 Exp: 121213 Storage 4 °C
 CLP Semi-Volatiles Toxic Substances #2
 8 components
 2000 ug/mL in met
 ABSOLUTE STANDAR


exp 10/18/12

W/10/18/12

Part #: 10006 Laboratory Use Only - See MSDS
 Lot #: 120810 Exp: 120813 Storage 4 °C
 **CLP Semi-Volatiles - Benzidines**
 2 components
 2000 ug/mL in metha
ABSOLUTE STANDARD:
 CLP Semi-Volatiles - Benzidines
 Lot #: 120810 - 28462 *cm*
 Rec: 3/8/11 MFR exp. 12/8/2013 *BK*


exp 10/18/12

W/10/18/12

Part #: 10006 Laboratory Use Only - See MSDS
 Lot #: 071211 Exp: 071214 Storage 4 °C
 **CLP Semi-Volatiles - Benzidines**
 2 components
 2000 ug/mL in meth
ABSOLUTE STANDAR
 CLP Semi-Volatiles - Benzidines
 Lot #: 071211 - 29105
 Rec: 8/4/11 MFR exp. 07/12/14


exp 10/18/12

W/10/18/12

Part #: 10007 Laboratory Use Only - See MSDS
 Lot #: 100909 Exp: 100914 Storage 4 °C
 **CLP Semi-Volatiles - PAH Standard**
 17 components
 2000 ug/mL in meth
ABSOLUTE STANDAR
 CLP Semi-Volatiles - PAH Mix
 Lot #: 100909 - 28469 *cm*
 Rec: 3/8/11 MFR exp. 10/9/2014 *BK*


exp 10/18/12

W/10/18/12

Part #: 10007 Laboratory Use Only - See MSDS
 Lot #: 100909 Exp: 100914 Storage 4 °C
 **CLP Semi-Volatiles - PAH Standard**
 17 components
 2000 ug/mL in meth
ABSOLUTE STANDAR
 CLP Semi-Volatiles - PAH Mix
 Lot #: 100909 - 29110
 Rec: 8/4/11 MFR exp. 10/09/14


exp 10/18/12

W/10/18/12

Part #: 10018 Laboratory Use Only - See MSDS
 Lot #: 073109 Exp: 073114 Storage 4 °C
 **EPA Method 8270A - Analytes Mix #8**
 13 components - Pher
 2000 ug/mL in methyl
ABSOLUTE STANDARD
 CLP Semi-Volatiles Mix #8 - Phenols
 Lot #: 073109 - 28410 *cm*
 Rec: 3/8/11 MFR exp. 7/31/2014 *BK*


exp 10/18/12

W/10/18/12

Part #: 10018 Laboratory Use Only - See MSDS
 Lot #: 062111 Exp: 062116 Storage 4 °C
 **EPA Method 8270A - Analytes Mix #8**
 13 components - Ph
 2000 ug/mL in meth
ABSOLUTE STANDARI
 EPA Method 8270A - Analytes Mix #8
 Lot #: 062111 - 29115
 Rec: 8/4/11 MFR exp. 06/21/16


W/10/18/12

W/10/18/12

Part #: 70023 Laboratory Use Only - See MSDS
 Lot #: 080310 Exp: 080315 Storage 4 °C
 **Atrazine**
 1000 ug/mL in aceto
ABSOLUTE STANDARI
 Atrazine
 Lot #: 080310 - 28416 *cm*
 Rec: 3/8/11 MFR exp. 8/13/2015 *BK*


exp 10/18/12

W/10/18/12

Part #: 70023 Laboratory Use Only - See MSDS
 Lot #: 031611 Exp: 031616 Storage 4 °C
 **Atrazine**
 1000 ug/mL in ace
ABSOLUTE STANDAR
 Atrazine
 Lot #: 031611 - 29120
 Rec: 8/4/11 MFR exp. 03/16/16


exp 10/18/12

10/18/11

Part #: 82705 Laboratory Use Only - See MSDS
 Lot #: 121010 Exp: 121013 Storage 4 °C
 EPA Method 8270A - Mix #11
 4 components
 2000 ug/mL in acet
 ABSOLUTE STANDARD
 EPA Method 8270A - Mix #18
 Lot #: 121010 - 28428
 Rec: 3/8/11 MFR exp. 12/10/2011


exp 10/18/12

10/18/11

Part #: 82705 Laboratory Use Only - See MSDS
 Lot #: 041911 Exp: 041914 Storage 4 °C
 EPA Method 8270A - Mix #11
 4 components
 2000 ug/mL in acet
 ABSOLUTE STANDARD
 EPA Method 8270A - Mix #18
 Lot #: 041911 - 29125
 Rec: 8/4/11 MFR exp. 04/19/14


exp 10/18/12

10/18/11

Part #: 94552 Laboratory Use Only - See MSDS
 Lot #: 030411 Exp: 030414 Storage 4 °C
 Semi-Volatile Standard
 11 components
 Varied ug/mL in met
 ABSOLUTE STANDARD
 Semi-Volatile Standard
 Lot #: 030411 - 28423
 Rec: 3/8/11 MFR exp. 3/4/2014

exp 10/18/12

10/18/11

Part #: 94552 Laboratory Use Only - See MSDS
 Lot #: 030411 Exp: 030414 Storage 4 °C
 Semi-Volatile Standard
 11 components
 Varied ug/mL in met
 ABSOLUTE STANDARD
 Semi-Volatile Standard
 Lot #: 030411 - 29130
 Rec: 8/4/11 MFR exp. 03/04/14

exp 10/18/12

10/18/11

PREP DATE:	10-18-11					
8270C Stock/Spike Standard						
Exp:	04-18-12					
	Conc.		Date	CODE:	P	
Supplier	ID #	µg/mL	Lot #	Code	Exp. Date	µL
Absolute	10001	2000	042910-28440	10/18/11	04-29-13	1000
Absolute	10001	2000	042910-29085	10/18/11	04-29-13	1000
Absolute	10002	2000	073109-28446	10/18/11	07-31-12	1000
Absolute	10002	2000	073109-29090	10/18/11	07-31-12	1000
Absolute	10004	2000	101509-28453	10/18/11	10-15-14	1000
Absolute	10004	2000	101509-29095	10/18/11	10-15-14	1000
Absolute	10005	2000	061209-28458	10/18/11	06-12-14	1000
Absolute	10005	2000	121208-29100	10/18/11	12-12-13	1000
Absolute	10006	2000	120810-28462	10/18/11	12-08-13	1000
Absolute	10006	2000	071211-29105	10/18/11	07-12-14	1000
Absolute	10007	2000	100909-28469	10/18/11	10-09-14	1000
Absolute	10007	2000	100909-29110	10/18/11	10-09-14	1000
Absolute	10018	2000	073109-28410	10/18/11	07-31-14	1000
Absolute	10018	2000	062111-29115	10/18/11	06-21-16	1000
Absolute	70023	1000	080310-28416	10/18/11	08-03-15	1000
Absolute	70023	1000	031611-29120	10/18/11	03-16-16	1000
Absolute	82705	2000	121010-28428	10/18/11	12-10-13	1000
Absolute	82705	2000	041911-29125	10/18/11	04-19-14	1000
Absolute	94552	2000	030411-28423	10/18/11	03-04-14	1000
Absolute	94552	2000	030411-29130	10/18/11	03-04-14	1000
					Final Vol	20000

LF 10/18/11

Method 8270 Internal
Standard Solution, 2,000
mg/L, 1 ml
118001-82
Lot # 187766 Storage 5-10 Degree C Expiry 4/20/13
Solv: Methylene Chloride
8270 Internal Standard
Lot #: 167766 - 28149
Rec: 1/20/11 MFR exp. 04/20/13

Method 8270 Internal
Standard Solution, 2,000
mg/L, 1 ml
118001-82
Lot # 167766 Storage 5-10 Degree C Expiry 4/20/13
Solv: Methylene Chloride
8270 Internal Standard
Lot #: 167766 - 28150
Rec: 1/20/11 MFR exp. 04/20/13

exp 10/18/12

LF 10/27/11

GCM-160-1
Lot: CH-2137
Exp: 07/31/2013
Sens-Volatiles GC/MS Tuning
Standard
4 analyte(s) at 1000 µg/mL in
dichloromethane
250 Smith St, No Kingstown, RI 02852 USA
ULTRA
1 ml
For Lab Use Only

exp 10/27/12

50 µg/mL SV Tune Mix 1 mL of GCM-160-1 lot # CH2137 into
19 mL of Gen Science MC lot # 47080.

LF 10/27/11

PREP DATE: 10-27-11													
8270 SIM STANDARD CURVE													
						0.10	0.20	0.50	1.00	5.00	10.00	50.00	100.00
						A	A	C	D	E	F	G	H
Supplier	ID #	Conc. µg/mL	Lot #	Date	Code	µL	µL	µL	µL	µL	µL	µL	µL
	8270D PAH SIM	200	170253-28485	04/20/11	04-20-12	0	0	0	0	5	5	25	50
	5.0ug/mL	5		10/27/11		0	0	10	20	0	0	0	0
	1.0ug/mL	1		10/27/11		10	20	0	0	0	0	0	0
	Surrogate Stock	VAR	167802-29311	08/22/11	08-22-12	0	0	0	0	5	5	25	50
EM Science	Methylene Chloride		47186			90	80	90	80	190	90	50	0
						Final Vol.	100	100	100	100	200	100	100

LF 10/27/11

PREP DATE: 10-27-11												
SIM 8270 Second Source (5µg/mL)												
Exp: 11-10-11												
						Conc.	Date	CODE:				
Supplier	ID #	Conc. µg/mL	Lot #	Date	Code	µL	Code	Exp. Date	µL			
	8270D PAH SIM (SS)	200	170256-28487	04/20/11	04-20-12	5						
	MeCl2		Lot#47186						195			
						Final Volume	200					

LF 11/8/11

PREP DATE: 11-08-11													
8270 STANDARD CURVE													
Exp: 11-15-11													
						5	10	20	40	50	50	80	100
						µL	µL	µL	µL	µL	µL	µL	µL
	8270T Stock	200		10/18/11	04-18-12	5	5	10	20	25	30	40	50
	Surrogate Stock	VAR	167802-29313	08/22/11	08-22-12	5	5	10	20	25	30	40	50
EM Science	Methylene Chloride		47186			190	90	80	60	50	40	20	0
						Final Vol.	200	100	100	100	100	100	100

LF 11/8/11

PREP DATE: 11-08-11													
8270 Second Source (SS) 50ug/mL													
Exp: 11-15-11													
						50							
						µL							
	8270C SS	200		10/11/11	04-12-12	25							
EM Science	Methylene Chloride		47186			75							
						Final Vol.	100						

Organic Extraction Worksheet






Method	SIM Separatory Funnel Extra 3510C	Extraction Set	111108A	Extraction Method	SEP004S	Units	ml
Spiked ID 1	SIM Spike 178987-29587	Surrogate ID 1	8270 SIM Surrogate 172835-28827				
Spiked ID 2		Surrogate ID 2					
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		no			
Spiked ID 7		Ext. Start Time:					
Spiked ID 8		Ext. End Time:					
		GC Requires Extract By:		11/17/11 0:00			
pH1	2	/8/2011 12:40:00 PM		Water Bath Temp Criteria		80 °C	
pH2	14	/8/2011 2:00:00 PM					
pH3							

Spiked By: HW

Date 11/8/2011

Witnessed By: CC

Date 11/8/2011

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	111108A BIK			0.025	1	1000	1	2/1	11/08/11 12:40	
					equip	E-WB5				
2	111108A LCS-1	0.025	1	0.025	1	1000	1	2/1	11/08/11 12:40	
					equip	E-WB5				
3	AY50005 AY50005W05			0.025	1	1050	1	2/1	11/08/11 12:40	66186-2 week rush -- Amber Liter
					equip	E-WB5				
4	AY50011 AY50011W07			0.025	1	1050	1	2/1	11/08/11 12:40	66187-2 week rush -- Amber Liter
					equip	E-WB5				
5	AY50017 AY50017W07			0.025	1	1050	1	2/1	11/08/11 12:40	66187-2 week rush -- Amber Liter
					equip	E-WB5				

HW 11/8/11

Solvent and Lot#	
MC	EMD 51204
Na2SO4	3581C501
10N NaOH	10/31/11
1+1 Acid	09/15/11
A. Na2SO4	10/31/11

Extraction COC Transfer	
Extraction lab employee Initials	HW
GC analyst's initials	if
Date	11/8/11
Time	17:00
Refrigerator	HW

Technician's Initials	
Scanned By	HW
Sample Preparation	HW
Extraction	HW
Concentration	HW
Modified	11/8/2011 12:08:05 PM

Reviewed By: HW

Date 11/8/2011

Injection Log

Directory: M:\LINUS\DATA\111027\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	1027L001.D	1	SVTUNE 10-27-11		27 Oct 11 18:29
2	3	1027L003.D	1	0.1ug/ml PAH 10-27-11		27 Oct 11 19:12
3	4	1027L004.D	1	0.2ug/ml PAH		27 Oct 11 19:38
4	1	1028L001.D	1	SVTUNE 10-27-11		28 Oct 11 9:32
5	5	1028L005.D	1	0.5ug/ml PAH		28 Oct 11 11:07
6	6	1028L006.D	1	1.0ug/ml PAH		28 Oct 11 11:32
7	7	1028L007.D	1	5.0ug/ml PAH		28 Oct 11 11:58
8	8	1028L008.D	1	10ug/ml PAH		28 Oct 11 12:23
9	9	1028L009.D	1	50ug/ml PAH		28 Oct 11 12:49
10	10	1028L010.D	1	100ug/ml PAH		28 Oct 11 13:14
11	11	1028L011.D	1	5.0ug/ml SS PAH 10-27-11		28 Oct 11 13:40
12	1	1110L001.D	1	SVTUNE 10-27-11		10 Nov 11 19:03
13	2	1110L002.D	1	5.0ug/ml PAH 10-27-11		10 Nov 11 19:22
14	3	1110L003.D	1	111108A BLK 1/1000		10 Nov 11 19:47
15	4	1110L004.D	1	111108A LCS-1 1/1000		10 Nov 11 20:12
16	5	1110L005.D	0.95238	AY50005W05 1/1050		10 Nov 11 20:38

EPA METHOD 8260B
Volatile Organic Compounds

APPL, INC.

EPA METHOD 8260B
Volatile Organic Compounds
QC Summary

APPL, INC.

Method Blank

EPA 8260B VOCs + Gas Water

Blank Name/QCG: 111105W-50004 - 160965
 Batch ID: #86RHB-111105AC

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1,1,1,2-TETRACHLOROETHANE	0.26 U	1.0	0.26	0.13	ug/L	11/05/11	11/05/11
BLANK	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
BLANK	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	11/05/11	11/05/11
BLANK	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	11/05/11	11/05/11
BLANK	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
BLANK	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	11/05/11	11/05/11
BLANK	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	11/05/11	11/05/11
BLANK	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	11/05/11	11/05/11
BLANK	1,2-DIBROMO-3-CHLOROPROPA	1.52 U	2.0	1.52	0.76	ug/L	11/05/11	11/05/11
BLANK	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	11/05/11	11/05/11
BLANK	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	11/05/11	11/05/11
BLANK	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
BLANK	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	11/05/11	11/05/11
BLANK	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	11/05/11	11/05/11
BLANK	1,3-DICHLOROPROPENE, TOTA	0.36 U	1.0	0.36	0.18	ug/L	11/05/11	11/05/11
BLANK	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
BLANK	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	11/05/11	11/05/11
BLANK	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	11/05/11	11/05/11
BLANK	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	11/05/11	11/05/11
BLANK	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	11/05/11	11/05/11
BLANK	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
BLANK	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
BLANK	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	11/05/11	11/05/11
BLANK	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	11/05/11	11/05/11
BLANK	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	11/05/11	11/05/11
BLANK	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
BLANK	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	11/05/11	11/05/11
BLANK	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	11/05/11	11/05/11
BLANK	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	11/05/11	11/05/11
BLANK	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	11/05/11	11/05/11
BLANK	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	11/05/11	11/05/11
BLANK	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	11/05/11	11/05/11
BLANK	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
BLANK	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	11/05/11	11/05/11

Quant Method: CALLW.M
Run #: 1105C09
Instrument: Chico
Sequence: C111104
Initials: DG

Method Blank
EPA 8260B VOCs + Gas Water

Blank Name/QCG: 111105W-50004 - 160965
Batch ID: #86RHB-111105AC

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	11/05/11	11/05/11
BLANK	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	11/05/11	11/05/11
BLANK	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	11/05/11	11/05/11
BLANK	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	11/05/11	11/05/11
BLANK	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
BLANK	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	11/05/11	11/05/11
BLANK	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	11/05/11	11/05/11
BLANK	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
BLANK	SURROGATE: 1,2-DICHLOROET	87.0	70-120			%	11/05/11	11/05/11
BLANK	SURROGATE: 4-BROMOFLUOR	96.5	75-120			%	11/05/11	11/05/11
BLANK	SURROGATE: DIBROMOFLUOR	90.3	85-115			%	11/05/11	11/05/11
BLANK	SURROGATE: TOLUENE-D8 (S)	93.8	85-120			%	11/05/11	11/05/11

Quant Method: CALLW.M
Run #: 1105C09
Instrument: Chico
Sequence: C111104
Initials: DG

GC SC-Blank-REG MDLs
Printed: 12/08/11 4:17:25 PM

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 66186

Case No: 66186

Date Analyzed: 11/05/11

Matrix: WATER

Instrument: Chico

APPL ID.	Client Sample No.	SURROGATE: 1,2-DICHLOROETHANE-D4 (S)			SURROGATE: 4-BROMOFLUOROBENZENE (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
111105AC-LCS	Lab Control Spike	70-120	90.5		75-120	98.2	
111105AC-BLK	Blank	70-120	87.0		75-120	96.5	
AY50004	ES056	70-120	89.3		75-120	101	
AY50005	ES057	70-120	84.1		75-120	100	

Comments: Batch: #86RHB-111105AC

Form 2 & 8

Surrogate Recovery

Lab Name: APPL, Inc.

SDG No: 66186

Case No: 66186

Date Analyzed: 11/05/11

Matrix: WATER

Instrument: Chico

APPL ID.	Client Sample No.	SURROGATE: DIBROMOFLUOROMETHANE (S)			SURROGATE: TOLUENE-D8 (S)		
		Limits	Result	Qualifier	Limits	Result	Qualifier
111105AC-LCS	Lab Control Spike	85-115	98.1		85-120	93.0	
111105AC-BLK	Blank	85-115	90.3		85-120	93.8	
AY50004	ES056	85-115	91.9		85-120	97.8	
AY50005	ES057	85-115	86.7		85-120	95.9	

Comments: Batch: #86RHB-111105AC

Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: 111105W-50004 LCS - 160965
 Batch ID: #86RHB-111105AC

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1,1,1,2-TETRACHLOROETHANE	10.00	9.01	90.1	80-130
1,1,1-TRICHLOROETHANE	10.00	8.38	83.8	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	10.2	102	65-130
1,1,2-TRICHLOROETHANE	10.00	9.78	97.8	75-125
1,1-DICHLOROETHANE	10.00	10.5	105	70-135
1,1-DICHLOROETHENE	10.00	9.57	95.7	70-130
1,2,3-TRICHLOROPROPANE	10.00	8.50	85.0	75-125
1,2,4-TRICHLOROBENZENE	10.00	9.38	93.8	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	8.45	84.5	50-130
1,2-DIBROMOETHANE	10.00	8.37	83.7	70-130
1,2-DICHLOROBENZENE	10.00	9.72	97.2	70-120
1,2-DICHLOROETHANE	10.00	8.20	82.0	70-130
1,2-DICHLOROPROPANE	10.00	11.6	116	75-125
1,3-DICHLOROBENZENE	10.00	9.98	99.8	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	20.3	102	70-130
1,4-DICHLOROBENZENE	10.00	10.1	101	75-125
2-BUTANONE	10.00	9.57	95.7	30-150
4-METHYL-2-PENTANONE	10.00	10.7	107	60-135
ACETONE	10.00	10.8	108	40-140
BENZENE	10.00	11.0	110	80-120
BROMODICHLOROMETHANE	10.00	8.69	86.9	75-120
BROMOFORM	10.00	7.75	77.5	70-130
BROMOMETHANE	10.00	9.21	92.1	30-145
CARBON TETRACHLORIDE	10.00	8.10	81.0	65-140
CHLOROBENZENE	10.00	9.18	91.8	80-120
CHLORODIBROMOMETHANE	10.00	8.29	82.9	60-135

Comments:

<u>Primary</u>	<u>SPK</u>
Quant Method :	CALLW.M
Extraction Date :	11/05/11
Analysis Date :	11/05/11
Instrument :	Chlco
Run :	1105C03
Initials :	DG

Printed: 12/08/11 4:17:34 PM

APPL Standard LCS

Laboratory Control Spike Recovery
EPA 8260B VOCs + Gas Water

APPL ID: 111105W-50004 LCS - 160965
 Batch ID: #86RHB-111105AC

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
CHLOROETHANE	10.00	11.7	117	60-135
CHLOROFORM	10.00	9.27	92.7	65-135
CHLOROMETHANE	10.00	9.41	94.1	40-125
CIS-1,2-DICHLOROETHENE	10.00	9.24	92.4	70-125
ETHYLBENZENE	10.00	9.72	97.2	75-125
GASOLINE	300	285	95.0	75-125
HEXACHLOROBUTADIENE	10.00	8.51	85.1	50-140
METHYL TERT-BUTYL ETHER	10.00	9.18	91.8	65-125
METHYLENE CHLORIDE	10.00	9.48	94.8	55-140
STYRENE	10.00	9.74	97.4	65-135
TETRACHLOROETHENE	10.00	8.71	87.1	45-150
TOLUENE	10.00	10.0	100	75-120
TRANS-1,2-DICHLOROETHENE	10.00	9.57	95.7	60-140
TRICHLOROETHENE	10.00	9.37	93.7	70-125
VINYL CHLORIDE	10.00	9.11	91.1	50-145
XYLENES (TOTAL)	30.0	29.1	97.0	80-120

SURROGATE: 1,2-DICHLOROETHANE-	21.2	19.2	90.5	70-120
SURROGATE: 4-BROMOFLUOROBENZ	25.5	25.0	98.2	75-120
SURROGATE: DIBROMOFLUOROMETH	21.1	20.7	98.1	85-115
SURROGATE: TOLUENE-D8 (S)	25.8	24.0	93.0	85-120

Comments: _____

Primary	SPK
Quant Method :	CALLW.M
Extraction Date :	11/05/11
Analysis Date :	11/05/11
Instrument :	Chico
Run :	1105C03
Initials :	DG

Printed: 12/08/11 4:17:35 PM

APPL Standard LCS

EPA 8260B

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 66186

Case No: 66186

Date Analyzed: 11/05/11

Matrix: WATER

Instrument: Chico

Blank ID: 111105AC-BLK

Time Analyzed: 1704

<u>APPL ID.</u>	<u>Client Sample No.</u>	<u>File ID.</u>	<u>Date Analyzed</u>
111105AC-LCS	Lab Control Spike	1105C03	11/05/11 1245
111105AC-BLK	Blank	1105C09	11/05/11 1704
AY50004	ES056	1105C10	11/05/11 1748
AY50005	ES057	1105C11	11/05/11 1831

Comments: Batch: #86RHB-111105AC

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: 66186
 Matrix: Water
 ID: 20ug/ml BFB Std 02-17-10D

SDG No: 66186
 Date Analyzed: 11/05/11
 Instrument: Chico
 Time Analyzed: 10:47

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	VOC STD 11-5-11@10ug	1105C02W.D	11/05/11 12:02
2	Lab Control Spike	111105A LCS-1WC	11/05/11 12:45
3	Gas CCV 11-05-11@300	1105C05W.D	11/05/11 14:11
4	Lab Control Spike	111105A LCS-1WC (GAS	11/05/11 14:54
5	Blank	111105A BLK-1WC	11/05/11 17:04
6	ES056	AY50004W01	11/05/11 17:48
7	ES057	AY50005W01	11/05/11 18:31
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m/e

50 15 - 40% of mass 95	<u>22.3</u>
75 30 - 60% of mass 95	<u>49.5</u>
95 100 - 100% of mass 95	<u>100.0</u>
96 5 - 9% of mass 95	<u>6.2</u>
173 0 - 2% of mass 174	<u>0.0</u>
174 50 - 100% of mass 95	<u>83.1</u>
175 5 - 9% of mass 174	<u>7.1</u>
176 95 - 101% of mass 174	<u>96.8</u>
177 5 - 9% of mass 176	<u>6.2</u>

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 66186
 Lab File ID (Standard): 1104C09W.D Date Analyzed: 4 Nov 11 15:53
 Instrument ID: Chico Time Analyzed: 4 Nov 11 15:53
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

	Fluorobenzene (IS)		Chlorobenzene-D5 (IS)		1,4-Dichlorobenzene-D (IS)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	379520	12.88	242112	18.07	128488	22.28
UPPER LIMIT	759040	13.38	484224	18.57	256976	22.78
LOWER LIMIT	189760	12.38	121056	17.57	64244	21.78
SAMPLE NO.						
01 VOC STD 11-5-11@10u	595584	12.84	402432	18.05	212800	22.24
02 111105A LCS-1WC	598784	12.85	432320	18.04	227456	22.25
03 111105A BLK-1WC	639936	12.85	438336	18.05	229504	22.25
04 AY50004W01	620800	12.85	411008	18.05	224768	22.25
05 AY50005W01	638720	12.85	426432	18.05	222400	22.25
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AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: Review
 Lab Code: _____ SDG No.: 66186
 Lab File ID (Standard): 1030C08W.D Date Analyzed: 10/30/11
 Instrument ID: Chico Time Analyzed: 18:26
 GC Column: _____ ID: Heated Purge: (Y/N) _____

		Fluorobenzene (IS)		Chlorobenzene-D5 (IS)		4-Dichlorobenzene-D (IS)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		1085670	12.84	1080400	18.04	1118270	22.24
UPPER LIMIT		2171340	13.34	2160800	18.54	2236540	22.74
LOWER LIMIT		542835	12.34	540200	17.54	559135	21.74
SAMPLE NO.							
01	Gas CCV 11-05-11@300ug/L	1284530	12.85	1273280	18.04	1316870	22.25
02	111105A LCS-1WC (GAS)	1341940	12.85	1285560	18.04	1316050	22.25
03	111105A BLK-1WC	1344860	12.85	1284530	18.05	1297790	22.25
04	AY50004W01	1298000	12.85	1242540	18.05	1255780	22.25
05	AY50005W01	1331270	12.85	1269390	18.05	1253510	22.25
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AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

EPA METHOD 8260B
Volatile Organic Compounds
Sample Data

EPA 8260B VOCs + Gas Water

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacey Fineran
Project: RED HILL/1022-024

ARF: 66186

Sample ID: ES056

APPL ID: AY50004

Sample Collection Date: 11/02/11

QCG: #86RHB-111105AC-160965

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1,2-TETRACHLOROETHANE	0.26 U	1.0	0.26	0.13	ug/L	11/05/11	11/05/11
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	11/05/11	11/05/11
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	11/05/11	11/05/11
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	11/05/11	11/05/11
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	11/05/11	11/05/11
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	11/05/11	11/05/11
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	11/05/11	11/05/11
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	11/05/11	11/05/11
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	11/05/11	11/05/11
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	11/05/11	11/05/11
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	11/05/11	11/05/11
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	11/05/11	11/05/11
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	11/05/11	11/05/11
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	11/05/11	11/05/11
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	11/05/11	11/05/11
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	11/05/11	11/05/11
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	11/05/11	11/05/11
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	11/05/11	11/05/11
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	11/05/11	11/05/11
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	11/05/11	11/05/11
EPA 8260B	CHLOROFORM	0.13 J	1.0	0.14	0.07	ug/L	11/05/11	11/05/11
EPA 8260B	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	11/05/11	11/05/11
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	11/05/11	11/05/11
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	11/05/11	11/05/11
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	11/05/11	11/05/11
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
EPA 8260B	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	11/05/11	11/05/11
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	11/05/11	11/05/11

J = Estimated value.

Quant Method: CALLW.M
Run #: 1105C10
Instrument: Chico
Sequence: C111104
Dilution Factor: 1
Initials: DG

Printed: 12/08/11 4:17:43 PM
APPL-F1-SC-NoMC-REG MDLs

EPA 8260B VOCs + Gas Water

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

Attn: Stacey Fineran
Project: RED HILL/1022-024

Sample ID: ES056
Sample Collection Date: 11/02/11

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 66186
APPL ID: AY50004
QCG: #86RHB-111105AC-160965

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	11/05/11	11/05/11
EPA 8260B	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	11/05/11	11/05/11
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	11/05/11	11/05/11
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	11/05/11	11/05/11
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	11/05/11	11/05/11
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE	89.3	70-120			%	11/05/11	11/05/11
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	101	75-120			%	11/05/11	11/05/11
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	91.9	85-115			%	11/05/11	11/05/11
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	97.8	85-120			%	11/05/11	11/05/11

J = Estimated value.

Quant Method: CALLW.M
Run #: 1105C10
Instrument: Chico
Sequence: C111104
Dilution Factor: 1
Initials: DG

Printed: 12/08/11 4:17:43 PM
APPL-F1-SC-NoMC-REG MDLs

Data File : M:\CHICO\DATA\C111104\1105C10W.D Vial: 1
 Acq On : 5 Nov 11 17:48 Operator: STC
 Sample : AY50004W01 Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:20 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	12.85	96	620800	25.00000	ppb	-0.03
55) Chlorobenzene-D5 (IS)	18.05	117	411008	25.00000	ppb	-0.03
71) 1,4-Dichlorobenzene-D (IS)	22.25	152	224768	25.00000	ppb	-0.03
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.43	111	418625	19.39064	ppb	-0.03
Spiked Amount	21.097		Recovery	=	91.912%	
38) 1,2-DCA-D4(S)	12.23	65	357977	18.94703	ppb	-0.03
Spiked Amount	21.225		Recovery	=	89.266%	
56) Toluene-D8(S)	15.51	98	1528328	25.23984	ppb	-0.03
Spiked Amount	25.808		Recovery	=	97.798%	
64) 4-Bromofluorobenzene(S)	20.13	95	551484	25.81893	ppb	-0.03
Spiked Amount	25.459		Recovery	=	101.412%	
Target Compounds						
31) Chloroform	11.10	83	4911	0.12995	ppb	Qvalue 95

Quantitation Report

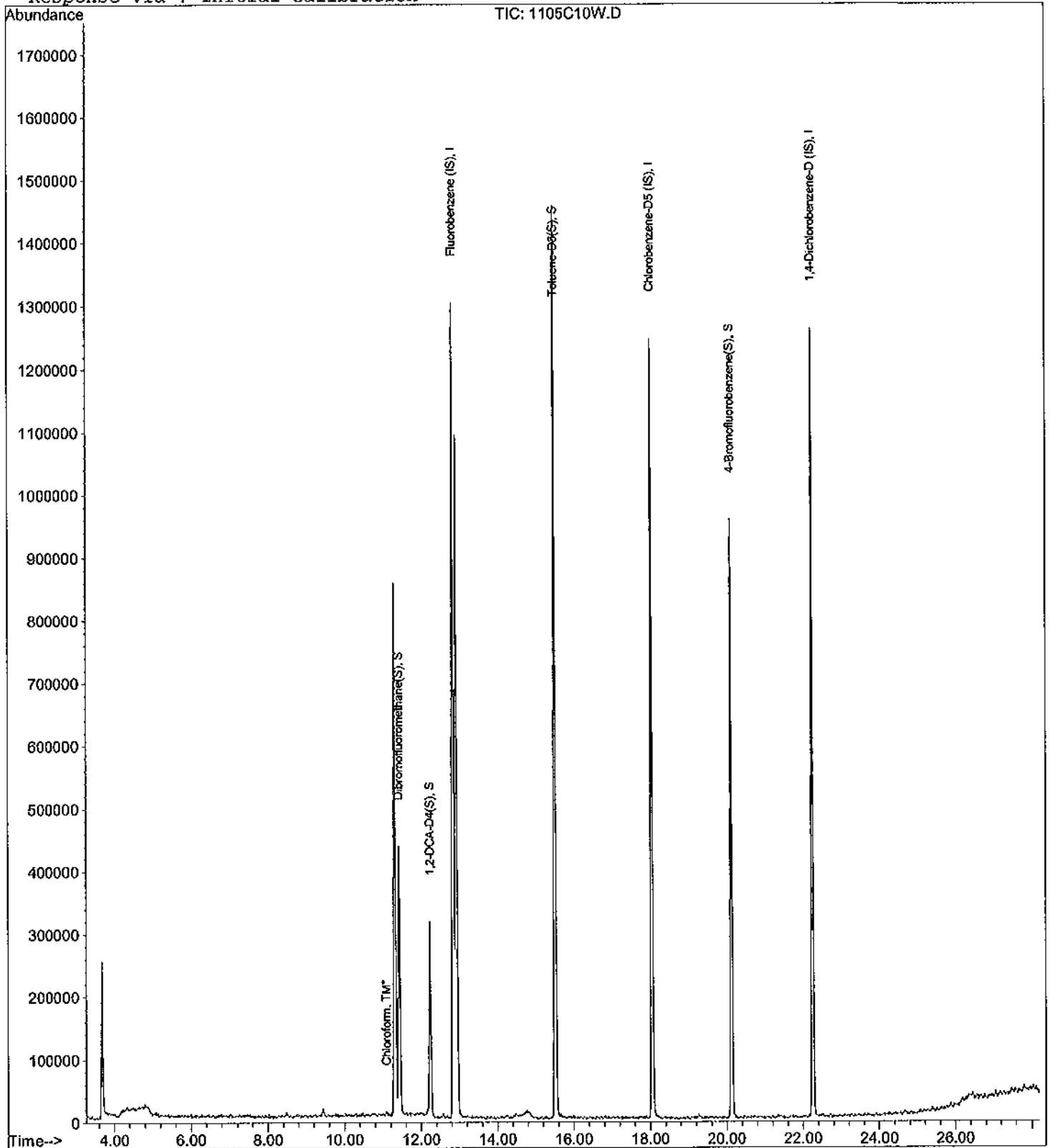
Data File : M:\CHICO\DATA\C111104\1105C10W.D
Acq On : 5 Nov 11 17:48
Sample : AY50004W01
Misc : Water 10mLw/ IS:10-30-11

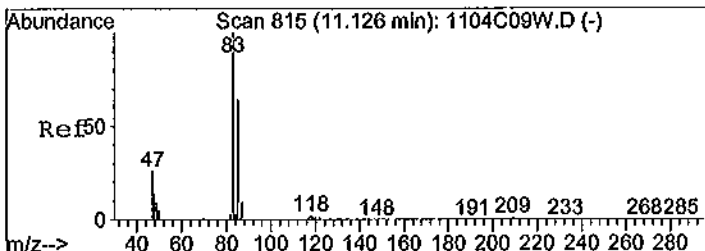
Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 8 16:20 2011

Quant Results File: CALLW.RES

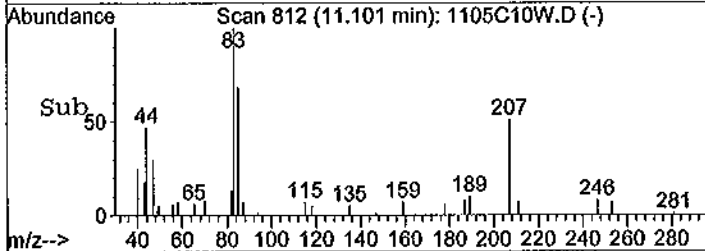
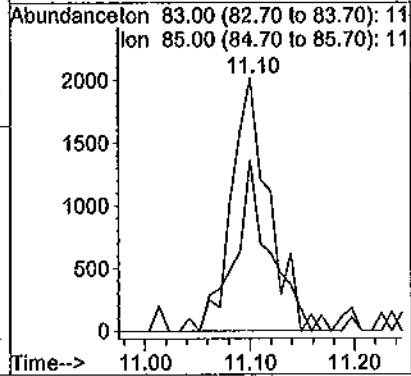
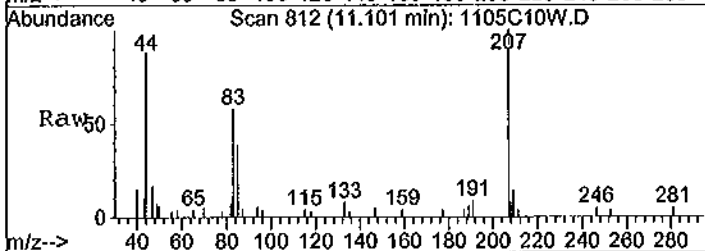
Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration





#31
 Chloroform
 Concen: 0.12995 ppb
 RT: 11.10 min Scan# 812
 Delta R.T. -0.03 min
 Lab File: 1105C10W.D
 Acq: 5 Nov 11 17:48

Tgt Ion: 83 Resp: 4911
 Ion Ratio Lower Upper
 83 100
 85 67.5 44.7 83.1



Data File : M:\CHICO\DATA\C111104\1105C10W.D Vial: 1
 Acq On : 5 Nov 11 17:48 Operator: STC
 Sample : AY50004W01 Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:44 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1297996	25.00000	ppb	0.01
3) Chlorobenzene-D5 (IS)	18.05	TIC	1242539	25.00000	ppb	0.01
4) 1,4-Dichlorobenzene-D (IS)	22.25	TIC	1255775	25.00000	ppb	0.01

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

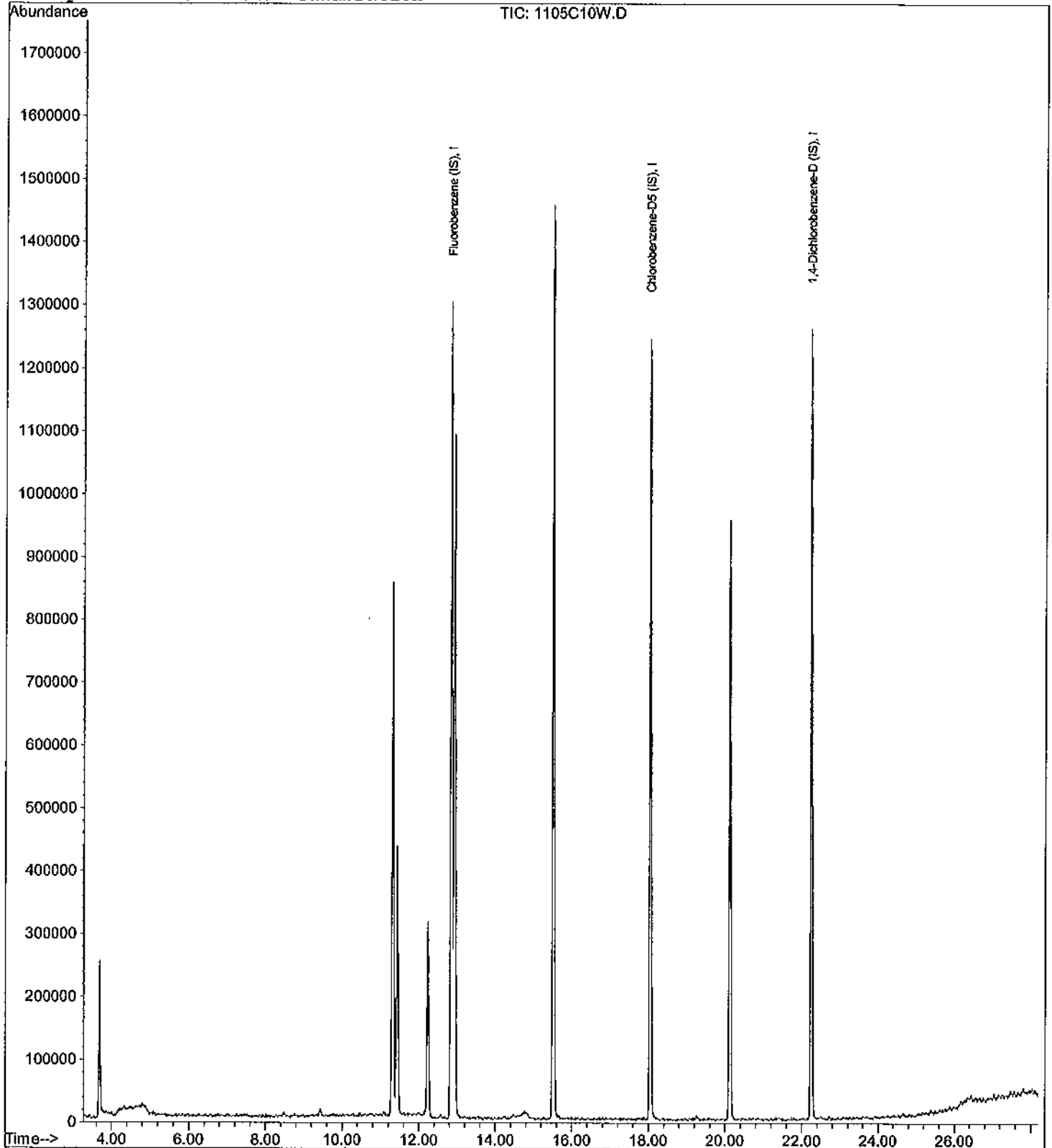
Data File : M:\CHICO\DATA\C111104\1105C10W.D
Acq On : 5 Nov 11 17:48
Sample : AY50004W01
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 8 16:44 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



EPA 8260B VOCs + Gas Water

EnviroNet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacey Fineran

Project: RED HILL/1022-024

Sample ID: ES057

Sample Collection Date: 11/02/11

ARF: 66186

APPL ID: AY50005

QCG: #86RHB-111105AC-160965

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1,2-TETRACHLOROETHANE	0.26 U	1.0	0.26	0.13	ug/L	11/05/11	11/05/11
EPA 8260B	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
EPA 8260B	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	11/05/11	11/05/11
EPA 8260B	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	11/05/11	11/05/11
EPA 8260B	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
EPA 8260B	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	11/05/11	11/05/11
EPA 8260B	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	11/05/11	11/05/11
EPA 8260B	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	11/05/11	11/05/11
EPA 8260B	1,2-DIBROMO-3-CHLOROPROPANE	1.52 U	2.0	1.52	0.76	ug/L	11/05/11	11/05/11
EPA 8260B	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	11/05/11	11/05/11
EPA 8260B	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	11/05/11	11/05/11
EPA 8260B	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
EPA 8260B	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	11/05/11	11/05/11
EPA 8260B	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	11/05/11	11/05/11
EPA 8260B	1,3-DICHLOROPROPENE, TOTAL	0.36 U	1.0	0.36	0.18	ug/L	11/05/11	11/05/11
EPA 8260B	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
EPA 8260B	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	11/05/11	11/05/11
EPA 8260B	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	11/05/11	11/05/11
EPA 8260B	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	11/05/11	11/05/11
EPA 8260B	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	11/05/11	11/05/11
EPA 8260B	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
EPA 8260B	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
EPA 8260B	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	11/05/11	11/05/11
EPA 8260B	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	11/05/11	11/05/11
EPA 8260B	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	11/05/11	11/05/11
EPA 8260B	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
EPA 8260B	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	11/05/11	11/05/11
EPA 8260B	CHLOROFORM	0.13 J	1.0	0.14	0.07	ug/L	11/05/11	11/05/11
EPA 8260B	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	11/05/11	11/05/11
EPA 8260B	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	11/05/11	11/05/11
EPA 8260B	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	11/05/11	11/05/11
EPA 8260B	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	11/05/11	11/05/11
EPA 8260B	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
EPA 8260B	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	11/05/11	11/05/11
EPA 8260B	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	11/05/11	11/05/11

J = Estimated value.

Quant Method: CALLW.M
Run #: 1105C11
Instrument: Chico
Sequence: C111104
Dilution Factor: 1
Initials: DG

Printed: 12/08/11 4:17:43 PM
APPL-F1-SC-NoMC-REG MDLs

EPA 8260B VOCs + Gas Water

EnviroNet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Attn: Stacey Fineran
Project: RED HILL/1022-024

ARF: 66186

Sample ID: ES057

APPL ID: AY50005

Sample Collection Date: 11/02/11

QCG: #86RHB-111105AC-160965

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8260B	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	11/05/11	11/05/11
EPA 8260B	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	11/05/11	11/05/11
EPA 8260B	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	11/05/11	11/05/11
EPA 8260B	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
EPA 8260B	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	11/05/11	11/05/11
EPA 8260B	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	11/05/11	11/05/11
EPA 8260B	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
EPA 8260B	SURROGATE: 1,2-DICHLOROETHANE	84.1	70-120			%	11/05/11	11/05/11
EPA 8260B	SURROGATE: 4-BROMOFLUOROBEN	100	75-120			%	11/05/11	11/05/11
EPA 8260B	SURROGATE: DIBROMOFLUOROMET	86.7	85-115			%	11/05/11	11/05/11
EPA 8260B	SURROGATE: TOLUENE-D8 (S)	95.9	85-120			%	11/05/11	11/05/11

J = Estimated value.

Quant Method: CALLW.M
Run #: 1105C11
Instrument: Chico
Sequence: C111104
Dilution Factor: 1
Initials: DG

Printed: 12/08/11 4:17:43 PM
APPL-F1-SC-NoMC-REG MDLs

Data File : M:\CHICO\DATA\C111104\1105C11W.D	Vial: 1
Acq On : 5 Nov 11 18:31	Operator: STC
Sample : AY50005W01	Inst : Chico
Misc : Water 10mLw/ IS:10-30-11	Multiplr: 1.00

Quant Time: Nov 8 16:37 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	96	638720	25.00000	ppb	-0.03
55) Chlorobenzene-D5 (IS)	18.05	117	426432	25.00000	ppb	-0.02
71) 1,4-Dichlorobenzene-D (IS)	22.25	152	222400	25.00000	ppb	-0.03
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.44	111	406408	18.29660	ppb	-0.03
Spiked Amount	21.097		Recovery	=	86.727%	
38) 1,2-DCA-D4(S)	12.24	65	346833	17.84217	ppb	-0.03
Spiked Amount	21.225		Recovery	=	84.060%	
56) Toluene-D8(S)	15.52	98	1554381	24.74162	ppb	-0.03
Spiked Amount	25.808		Recovery	=	95.868%	
64) 4-Bromofluorobenzene(S)	20.12	95	565450	25.51527	ppb	-0.03
Spiked Amount	25.459		Recovery	=	100.218%	
Target Compounds						
31) Chloroform	11.12	83	4995	0.12847	ppb	# 75
83) Tert-Butylbenzene	21.38	119	11822	0.16145	ppb	91

Quantitation Report

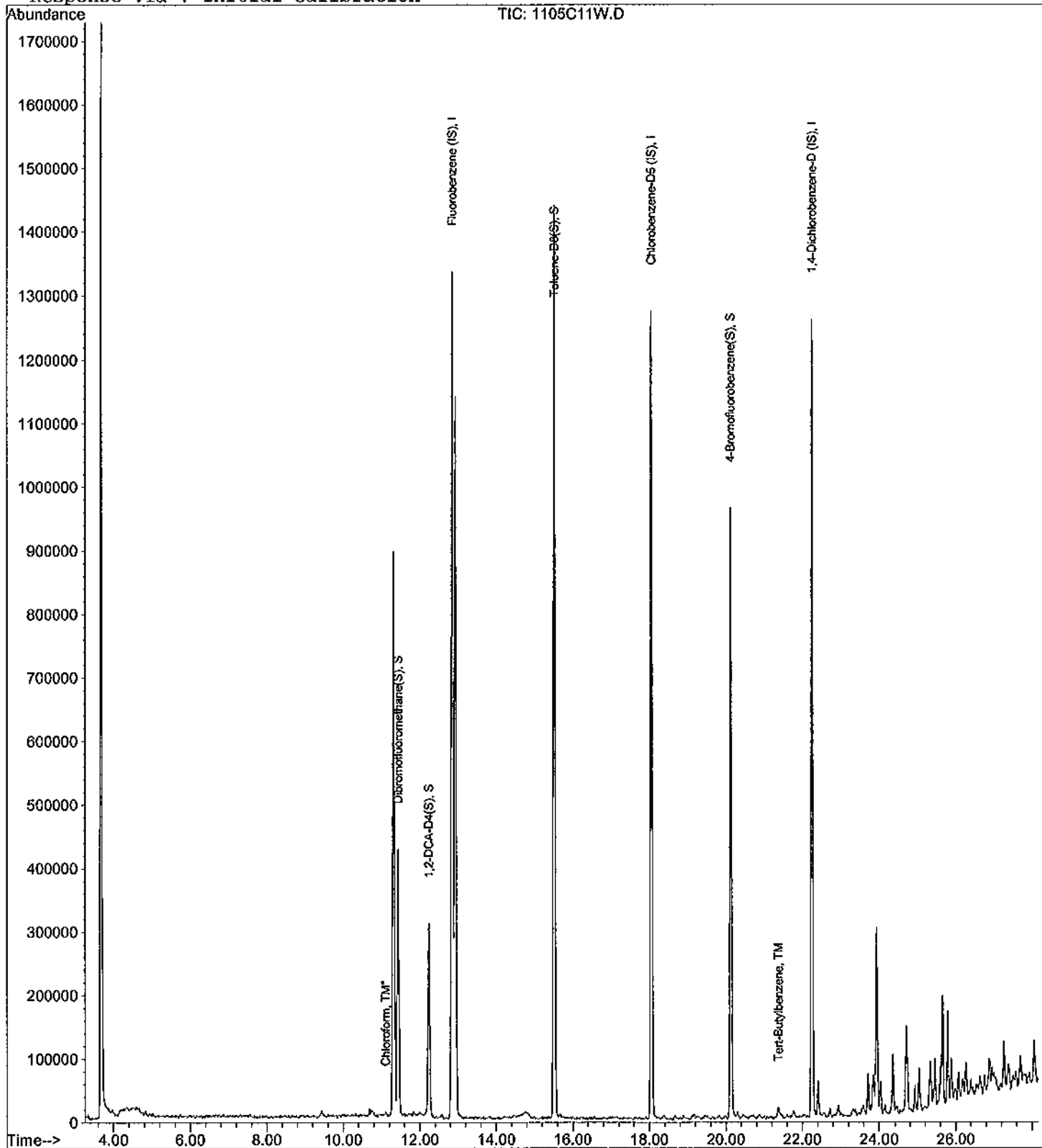
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Acq On : 5 Nov 11 18:31
Sample : AY50005W01
Misc : Water 10mLw/ IS:10-30-11

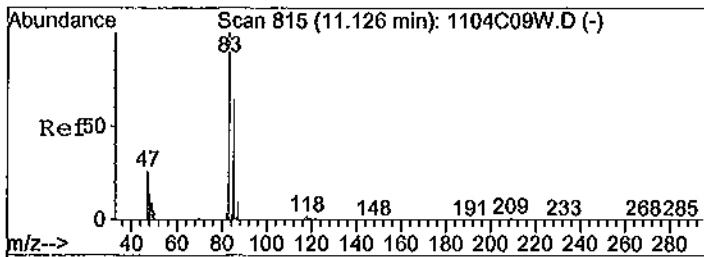
Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 8 16:37 2011

Quant Results File: CALLW.RES

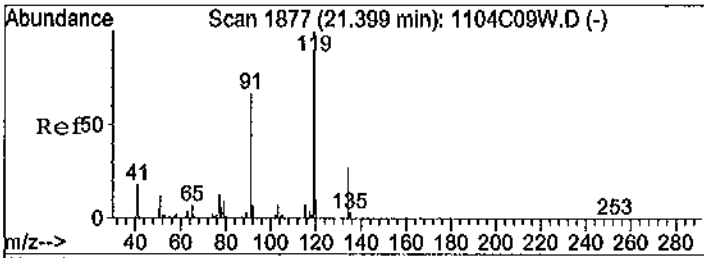
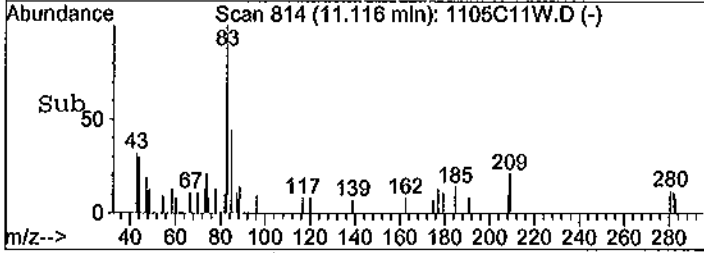
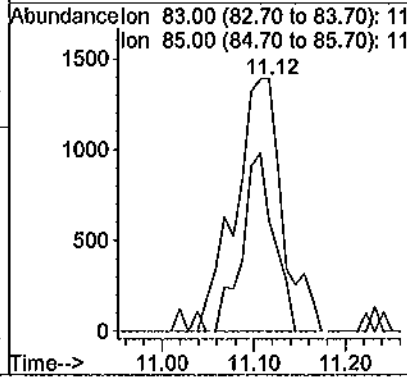
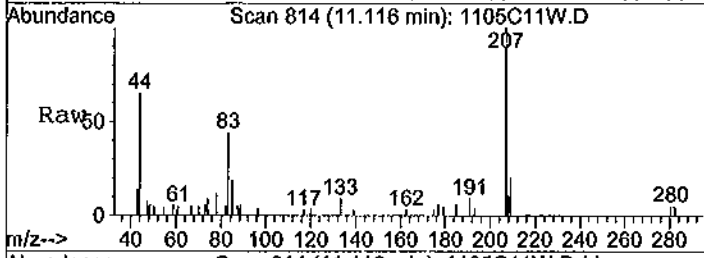
Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration





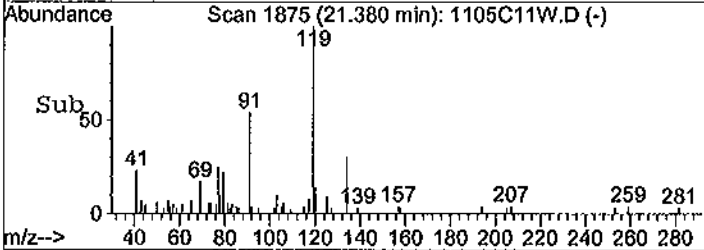
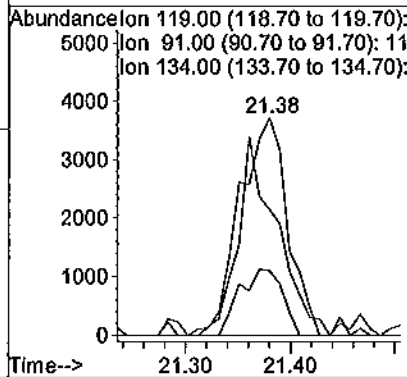
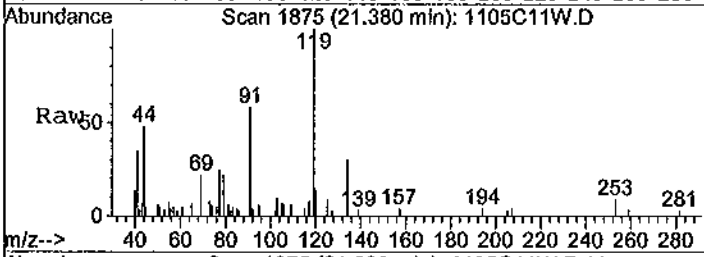
#31
 Chloroform
 Concen: 0.12847 ppb
 RT: 11.12 min Scan# 814
 Delta R.T. -0.01 min
 Lab File: 1105C11W.D
 Acq: 5 Nov 11 18:31

Tgt Ion	Resp	Lower	Upper
83	4995		
85	44.0	44.7	83.1#



#83
 Tert-Butylbenzene
 Concen: 0.16145 ppb
 RT: 21.38 min Scan# 1875
 Delta R.T. -0.02 min
 Lab File: 1105C11W.D
 Acq: 5 Nov 11 18:31

Tgt Ion	Resp	Lower	Upper
119	11822		
91	57.8	46.6	86.6
134	29.6	18.7	34.7



Data File : M:\CHICO\DATA\C111104\1105C11W.D Vial: 1
 Acq On : 5 Nov 11 18:31 Operator: STC
 Sample : AY50005W01 Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:46 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1331266	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.05	TIC	1269387	25.00000	ppb	0.02
4) 1,4-Dichlorobenzene-D (IS)	22.25	TIC	1253511	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

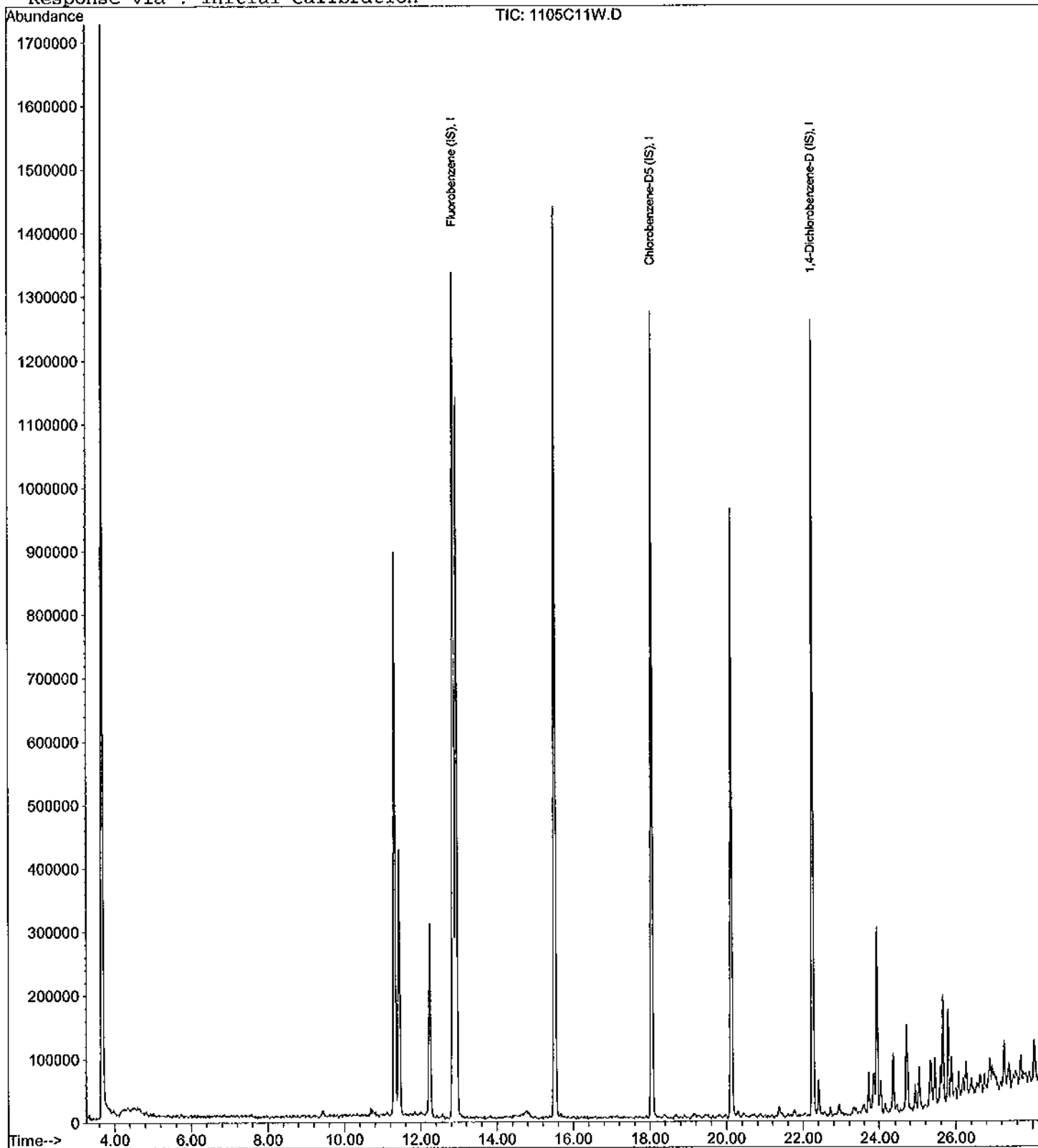
Data File : M:\CHICO\DATA\C111104\1105C11W.D
Acq On : 5 Nov 11 18:31
Sample : AY50005W01
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 8 16:46 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



**EPA METHOD 8260B
Volatile Organic Compounds
Calibration Data**

APPL, INC.

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Initial Cal. Date: 11/04/11

Matrix: _____

Instrument: Chico

Initials: _____

1104C04W.D 1104C05W.D 1104C06W.D 1104C07W.D 1104C08W.D 1104C09W.D 1104C10W.D 1104C11W.D 1104C12W.D

1	1	Compound	0.3	0.5	1	2	5	10	20	40	100	Avg	%RSD		r	
		Fluorobenzene (IS)	ISTD													
2	TM	Dichlorodifluoromethane		0.8203	0.7786	0.8343	0.6533	0.8377	0.8642	1.005	0.9017	0.84	12	TM		
3	TM	Freon 114		0.7810	0.6563	0.6257	0.5963	0.7144	0.6619	0.7653	0.7274	0.69	9.6	TM		
4	TM**	Chloromethane	1.273	1.294	1.122	0.9987	1.107	0.9571	0.9515	1.017	1.024	1.1	12	TM**	✓	
5	TM*	Vinyl chloride	1.017	0.8062	0.9171	0.7933	0.9243	0.8889	0.8400	0.8838	0.7832	0.87	8.7	TM*	✓	
6	TM	1,3-Butadiene												TM		
7	TM	Bromomethane		0.5466	0.5350	0.5622	0.5576	0.4723	0.4939	0.4871	0.5280	0.52	6.5	TM		
8	TM	Chloroethane		0.1468	0.1595	0.1305	0.1476	0.1460	0.1286	0.1648	0.1364	0.15	8.9	TM		
9	TM	Dichlorofluoromethane	2.086	1.836	1.758	1.685	1.955	1.731	1.666	1.804	1.657	1.8	8.0	TM		
10	TM	Trichlorofluoromethane	1.177	1.247	1.202	1.200	1.117	1.244	1.155	1.278	1.224	1.2	4.2	TM		
11		Acetonitrile		0.0265	0.0209	0.0186	0.0228	0.0197	0.0204	0.0243		0.02	13			
12	TM	Acrolein	0.0126	0.0095	0.0095	0.0089	0.0099	0.0108	0.0115	0.0116	0.0111	0.01	12	TM		
13	TML	Acetone		0.5173	0.3001	0.1522	0.1136	0.0984	0.0748	0.0831		0.19	85	TML	0.996	
14	TM	Freon-113	0.5180	0.6959	0.6470	0.6691	0.6093	0.7054	0.6541	0.7721	0.6988	0.66	11	TM		
15	TM*	1,1-DCE		0.9172	0.7282	0.6314	0.7153	0.6536	0.6031	0.6749	0.6154	0.69	15	TM*		
16	TM	t-Butanol		0.0035	0.0038	0.0026	0.0033	0.0034	0.0034	0.0033		0.00	11	TM		
17	TML	Methyl Acetate		0.3214	0.3178	0.2851	0.2299	0.1879	0.1762	0.1859	0.1838	0.24	27	TML	1.000	
18	TML	Iodomethane		0.3261	0.3361	0.3900	0.4347	0.5079	0.5793	0.6347		0.46	26	TML	0.999	
19	TM	Acrylonitrile	0.0755	0.0573	0.0867	0.0792	0.0832	0.0712	0.0730	0.0732	0.0673	0.07	12	TM		
20	TML	Methylene chloride	6.662	3.188	1.751	0.9167	0.6969	0.6006	0.5908	0.6006	0.5474	1.7	118	TML	0.999	
21	TM	Carbon disulfide	0.6983	0.6197	0.5526	0.4423	0.6771	0.5390	0.5229	0.5785	0.5137	0.57	14	TM		
22	TM	Methyl t-butyl ether (MtBE)	1.210	1.127	1.098	1.055	1.251	1.120	1.065	1.136	1.062	1.1	6.0	TM		
23	TM	Trans-1,2-DCE		0.9172	0.7282	0.6314	0.7153	0.6536	0.6031	0.6749	0.6154	0.69	15	TM		
24	TM	Diisopropyl Ether	2.209	2.032	1.971	1.863	2.346	2.115	2.028	2.012	1.884	2.1	7.5	TM		
25	TM**	1,1-DCA	1.663	1.479	1.496	1.305	1.634	1.440	1.324	1.349	1.245	1.4	10	TM**	✓	
26	TM	Vinyl Acetate			0.1362	0.1346	0.0987	0.1146	0.1039	0.1079	0.0997	0.11	14	TM		
27	TM*	Ethyl tert Butyl Ether	1.773	1.767	1.709	1.593	1.989	1.793	1.713	1.718	1.562	1.7	7.1	TM		
28	TM	MEK (2-Butanone)			0.4170	0.3115	0.3452	0.3214	0.3018	0.3036	0.2724	0.32	14	TM		
29	TM	Cis-1,2-DCE		1.147	0.9876	0.9207	0.9064	0.8254	0.8055	0.8290	0.7302	0.89	14	TM		
30	TM	2,2-Dichloropropane	1.405	1.569	1.407	1.217	1.470	1.293	1.237	1.233	1.118	1.3	11	TM		
31	TM*	Chloroform	1.397	1.681	1.570	1.416	1.704	1.534	1.487	1.545	1.364	1.5	7.9	TM*	✓	
32	TM	Bromochloromethane	0.2439	0.2855	0.3091	0.2465	0.3172	0.2632	0.2733	0.2606	0.2274	0.27	11	TM		
33	S	Dibromofluoromethane(S)	0.8513	0.8765	0.9185	0.8004	0.8512	0.7568	0.7683	1.042	0.9600	0.87	11	S		
34	TM	1,1,1-TCA	1.331	1.576	1.493	1.410	1.670	1.461	1.473	1.410	1.489	1.5	6.7	TM		
35	TM	Cyclohexane	1.009	0.9029	1.029	0.9328	0.9606	0.9467	0.9730	0.8798	0.9394	0.95	5.0	TM		

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 11/04/11
Instrument: Chico

Initials: _____

	Compound	0.3	0.5	1	2	5	10	20	40	100		Avg	%RSD		r
36	TM	1,1-Dichloropropene	1.284	1.003	1.056	1.050	1.139	1.054	1.039	0.9451	0.9838	1.1	9.4	TM	
37	TML	2,2,4-Trimethylpentane		2.380	1.798	1.701	1.570	1.677	1.678	1.446	1.580	1.7	16	TML	0.999
38	S	1,2-DCA-D4(S)	0.8725	0.7074	0.7848	0.6932	0.7648	0.6805	0.6697	0.8325	0.8423	0.76	10	S	
39	TM	Carbon Tetrachloride	0.9592	1.167	1.148	0.9879	1.148	1.188	1.161	1.153	1.244	1.1	8.2	TM	
40	TM	Tert Amyl Methyl Ether	1.611	1.409	1.234	1.174	1.344	1.181	1.228	1.052	1.130	1.3	13	TM	
41	TM	1,2-DCA	1.149	0.8266	0.8636	0.8047	0.9407	0.8568	0.8173	0.7530	0.7842	0.87	14	TM	
42	TM	Benzene	3.004	3.057	2.758	2.596	2.877	2.607	2.598	2.318	2.501	2.7	9.0	TM	
43	TM	TCE	0.7995	0.8821	0.8688	0.7890	0.9676	0.8726	0.8612	0.8183	0.8378	0.86	6.3	TM	
44	TM	2-Pentanone	0.1540	0.1452	0.1447	0.1394	0.1700	0.1601	0.1606	0.1502	0.1549	0.15	6.2	TM	
45	TM*	1,2-Dichloropropane	0.6561	0.5852	0.6018	0.6039	0.6714	0.6241	0.6280	0.5876	0.5893	0.62	5.0	TM*	✓
46	TM	Bromodichloromethane	0.9744	0.9437	0.9067	0.7807	1.015	0.9484	0.9367	0.9244	0.9235	0.93	6.9	TM	
47	TM	Methyl Cyclohexane	0.8200	0.9241	0.7771	0.8829	0.8642	0.9381	0.9383	0.8797	0.9284	0.88	6.4	TM	
48	TM	Dibromomethane		0.2535	0.3727	0.2911	0.3909	0.3279	0.3290	0.3132	0.3112	0.32	13	TM	
49	TMQ	2-Chloroethyl vinyl ether	0.2390	0.1445	0.1062	0.1563	0.1938	0.1563	0.1709	0.1585	0.1709	0.17	22	TMQ	1.000
50	TM	1-Bromo-2-chloroethane	0.4932	0.4441	0.6188	0.4869	0.6377	0.5642	0.5837	0.5106	0.5203	0.54	12	TM	
51	TM	Cis-1,3-Dichloropropene	0.8316	0.6857	0.7235	0.6927	0.8886	0.8130	0.7369	0.7338	0.7333	0.76	9.0	TM	
52	TM*	Toluene	3.168	3.066	3.081	2.669	3.253	2.773	2.638	2.556	2.592	2.9	9.5	TM*	✓
53	TM	Trans-1,3-Dichloropropene	0.5625	0.5719	0.5136	0.5343	0.6799	0.5865	0.5777	0.5859	0.5852	0.58	8.0	TM	
54	TM	1,1,2-TCA	0.3007	0.3033	0.3189	0.2217	0.3438	0.2787	0.2635	0.2719	0.2614	0.28	13	TM	
55	I	Chlorobenzene-D5 (IS)	ISTD												
56	S	Toluene-D8(S)	3.706	3.419	3.827	3.414	3.733	3.633	3.248	4.084	4.083	3.7	7.9	S	
57	TM	1,2-EDB	0.5758	0.5216	0.4877	0.5085	0.5640	0.5215	0.5541	0.5283	0.5240	0.53	5.3	TM	
58	TM	Tetrachloroethene		1.457	1.366	1.384	1.386	1.315	1.104	1.069	1.057	1.3	13	TM	
59	TM	1-Chlorohexane	1.492	1.395	1.285	1.343	1.353	1.340	1.335	1.311	1.345	1.4	4.4	TM	
60	TM	1,1,1,2-Tetrachloroethane	0.9141	0.7592	0.9299	0.8543	0.9809	1.044	0.9994	0.9859	0.9825	0.94	9.3	TM	
61	TM	m&p-Xylene	2.087	1.798	1.638	1.934	1.887	1.846	1.681	1.701	1.750	1.8	7.8	TM	
62	TM	o-Xylene	1.865	1.433	1.718	1.820	1.853	1.779	1.714	1.690	1.684	1.7	7.5	TM	
63	TM	Styrene	3.167	2.407	2.696	2.785	2.853	2.770	2.677	2.615	2.604	2.7	7.6	TM	
64	S	4-Bromofluorobenzene(S)	1.434	1.328	1.259	1.252	1.220	1.144	1.142	1.480	1.435	1.3	9.8	S	
65	TM	2-Hexanone			0.2308	0.2343	0.2091	0.2098	0.1969	0.1900	0.1766	0.21	10	TM	
66	TM	1,3-Dichloropropane	0.6843	0.8377	0.8291	0.9278	0.9606	1.016	0.8892	0.8393	0.8096	0.87	11	TM	
67	TM	Dibromochloromethane		0.6557	0.5976	0.7618	0.7728	0.7772	0.7616	0.7979	0.8144	0.74	10	TM	
68	TM**	Chlorobenzene	3.209	2.710	2.562	2.560	2.907	2.827	2.608	2.502	2.535	2.7	8.5	TM**	✓
69	TM*	Ethylbenzene	5.443	4.353	4.940	4.855	4.849	4.809	4.474	4.418	4.473	4.7	7.2	TM*	✓
70	TM**Q	Bromoform	0.0982	0.1161	0.2855	0.2791	0.3149	0.3757	0.3780	0.3873	0.4250	0.30	40	TM**Q	1.00

Data File : M:\CHICO\DATA\C111104\1104C04W.D Vial: 1
 Acq On : 4 Nov 11 12:17 Operator: STC
 Sample : VOL STD 11-04-11@0.3ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	12.87	96	373056	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.07	117	251968	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.27	152	137408	25.00000	ppb	-0.01
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.45	111	7622	0.58751	ppb	-0.01
Spiked Amount	21.097		Recovery	=	2.787%	
38) 1,2-DCA-D4(S)	12.26	65	7812	0.68806	ppb	0.00
Spiked Amount	21.225		Recovery	=	3.241%	
56) Toluene-D8(S)	15.52	98	22413	0.60377	ppb	-0.02
Spiked Amount	25.808		Recovery	=	2.340%	
64) 4-Bromofluorobenzene(S)	20.15	95	8671	0.66219	ppb	0.00
Spiked Amount	25.459		Recovery	=	2.600%	
Target Compounds						
2) Dichlorodifluoromethane	4.10	85	2521	0.20188	ppb	Qvalue 94
3) Freon 114	4.34	85	1171	0.11356	ppb	# 70
4) Chloromethane	4.56	50	5699	0.35273	ppb	# 76
5) Vinyl chloride	4.84	62	4553	0.34964	ppb	84
7) Bromomethane	5.74	94	3479	0.44592	ppb	87
8) Chloroethane	5.94	64	526	0.24307	ppb	92
9) Dichlorofluoromethane	6.03	67	9337	0.34808	ppb	# 75
10) Trichlorofluoromethane	6.56	101	5271	0.29315	ppb	# 57
11) Acetonitrile	7.69	41	6625	20.29369	ug/l	100
12) Acrolein	7.19	56	2827	17.89727	ppb	# 66
13) Acetone	7.30	43	4047	3.27164	ppb	96
14) Freon-113	7.48	101	2319	0.23430	ppb	86
15) 1,1-DCE	7.71	96	4680	0.45297	ppb	# 67
16) t-Butanol	7.78	59	648	13.08262	ppb	# 80
18) Iodomethane	8.21	142	1677	2.45643	ppb	# 29
19) Acrylonitrile	8.60	53	338	0.30580	ppb	90
20) Methylene chloride	8.49	84	29825	1.47076	ppb	86
21) Carbon disulfide	8.59	76	3126	0.36652	ppb	100
22) Methyl t-butyl ether (MtBE)	8.95	73	5416	0.32263	ppb	# 59
23) Trans-1,2-DCE	7.71	96	4680	0.45297	ppb	# 63
24) Diisopropyl Ether	9.79	45	9890	0.32313	ppb	# 73
25) 1,1-DCA	9.82	63	7444	0.34711	ppb	# 84
26) Vinyl Acetate	9.45	43	1320	0.77833	ppb	# 59
27) Ethyl tert Butyl Ether	10.47	59	7935	0.30647	ppb	# 70
28) MEK (2-Butanone)	10.47	43	2503	0.51658	ppb	# 70
29) Cis-1,2-DCE	10.85	96	6279	0.47070	ppb	# 23
30) 2,2-Dichloropropane	10.86	77	6290	0.31748	ppb	# 84
31) Chloroform	11.11	83	6253	0.27534	ppb	98
32) Bromochloromethane	11.34	128	1092	0.27139	ppb	# 1
34) 1,1,1-TCA	11.88	97	5959	0.27034	ppb	# 86
35) Cyclohexane	12.04	56	4517	0.31778	ppb	# 35
36) 1,1-Dichloropropene	12.15	75	5750	0.36295	ppb	# 75
37) 2,2,4-Trimethylpentane	12.21	57	12107	0.42595	ppb	# 79
39) Carbon Tetrachloride	12.34	117	4294	0.25502	ppb	# 88
40) Tert Amyl Methyl Ether	12.37	73	7211	0.38274	ppb	# 70
41) 1,2-DCA	12.41	62	5143	0.39789	ppb	99
42) Benzene	12.53	78	13448	0.33355	ppb	90
43) TCE	13.57	95	3579	0.28045	ppb	# 57
44) 2-Pentanone	13.23	43	34461	15.07079	ppb	96

(#) = qualifier out of range (m) = manual integration
 1104C04W.D CALLW.M Thu Dec 08 16:56:19 2011

Data File : M:\CHICO\DATA\C111104\1104C04W.D
 Acq On : 4 Nov 11 12:17
 Sample : VOL STD 11-04-11@0.3ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) 1,2-Dichloropropane	13.78	63	2937	0.31932	ppb #	84
46) Bromodichloromethane	14.14	83	4362	0.31492	ppb #	82
47) Methyl Cyclohexane	13.87	83	3671	0.27840	ppb	92
48) Dibromomethane	14.19	93	1070	0.22153	ppb #	70
49) 2-Chloroethyl vinyl ether	14.59	63	1070	0.20368	ppb #	85
50) 1-Bromo-2-chloroethane	14.92	63	2208	0.27404	ppb	90
51) Cis-1,3-Dichloropropene	15.02	75	3723	0.32832	ppb	92
52) Toluene	15.67	91	14182	0.33158	ppb	82
53) Trans-1,3-Dichloropropene	15.84	75	2518	0.29219	ppb #	82
54) 1,1,2-TCA	16.09	83	1346	0.31664	ppb #	65
57) 1,2-EDB	17.37	107	1741	0.32487	ppb #	1
58) Tetrachloroethene	16.82	164	5236	0.40996	ppb #	75
59) 1-Chlorohexane	17.74	91	4512	0.33029	ppb	96
60) 1,1,1,2-Tetrachloroethane	18.19	131	2764	0.29209	ppb #	71
61) m&p-Xylene	18.40	106	12622	0.69049	ppb	96
62) o-Xylene	19.13	106	5639	0.32370	ppb	86
63) Styrene	19.15	104	9576	0.34798	ppb #	61
65) 2-Hexanone	16.13	43	303	0.14539	ppb #	19
66) 1,3-Dichloropropane	16.53	76	2069	0.23555	ppb	87
67) Dibromochloromethane	17.02	129	1473	0.19687	ppb	82
68) Chlorobenzene	18.13	112	9702	0.35478	ppb	92
69) Ethylbenzene	18.25	91	16457	0.34461	ppb	85
70) Bromoform	19.68	173	297	0.41115	ppb #	73
72) MIBK (methyl isobutyl keto	14.69	43	1837	-1.06803	ppb	84
73) Isopropylbenzene	19.76	105	17317	0.33750	ppb	91
74) 1,1,2,2-Tetrachloroethane	19.92	83	1385	0.31740	ppb #	58
75) 1,2,3-Trichloropropane	20.20	110	168	14228.99424	ppb	94
76) t-1,4-Dichloro-2-Butene	20.25	53	204	-0.16580	ppb #	1
77) Bromobenzene	20.51	156	3451	0.30623	ppb	84
78) n-Propylbenzene	20.48	91	20811	0.35632	ppb	89
79) 4-Ethyltoluene	20.67	105	12885	0.31538	ppb	95
80) 2-Chlorotoluene	20.77	91	12555	0.32181	ppb	93
81) 1,3,5-Trimethylbenzene	20.75	105	13400	0.31457	ppb	91
82) 4-Chlorotoluene	20.85	91	11792	0.34403	ppb	94
83) Tert-Butylbenzene	21.40	119	14224	0.31441	ppb #	74
84) 1,2,4-Trimethylbenzene	21.45	105	13893	0.33203	ppb	88
85) Sec-Butylbenzene	21.78	105	17783	0.32528	ppb	95
86) p-Isopropyltoluene	22.02	119	16629	0.34595	ppb	90
87) Benzyl Chloride	22.45	91	2909	0.35717	ppb #	87
88) 1,3-DCB	22.16	146	6918	0.31246	ppb #	59
89) 1,4-DCB	22.31	146	6355	0.30638	ppb #	89
90) Hexachloroethane	23.63	117	1330	0.70462	ppb #	50
91) n-Butylbenzene	22.73	91	14476	0.35770	ppb	82
92) 1,2-DCB	22.96	146	5043	0.27509	ppb	95
93) 1,2-Dibromo-3-chloropropan	24.11	155	66	0.09928	ppb #	1
94) 1,2,4-Trichlorobenzene	25.62	145	6430	2.77968	ppb #	1
95) Hexachlorobutadiene	25.89	223	3585	-0.09482	ppb #	63
96) Naphthalene	26.00	128	6049	0.30993	ppb #	91
97) 1,2,3-Trichlorobenzene	26.37	180	2096	1297.24030	ppb	81

Quantitation Report

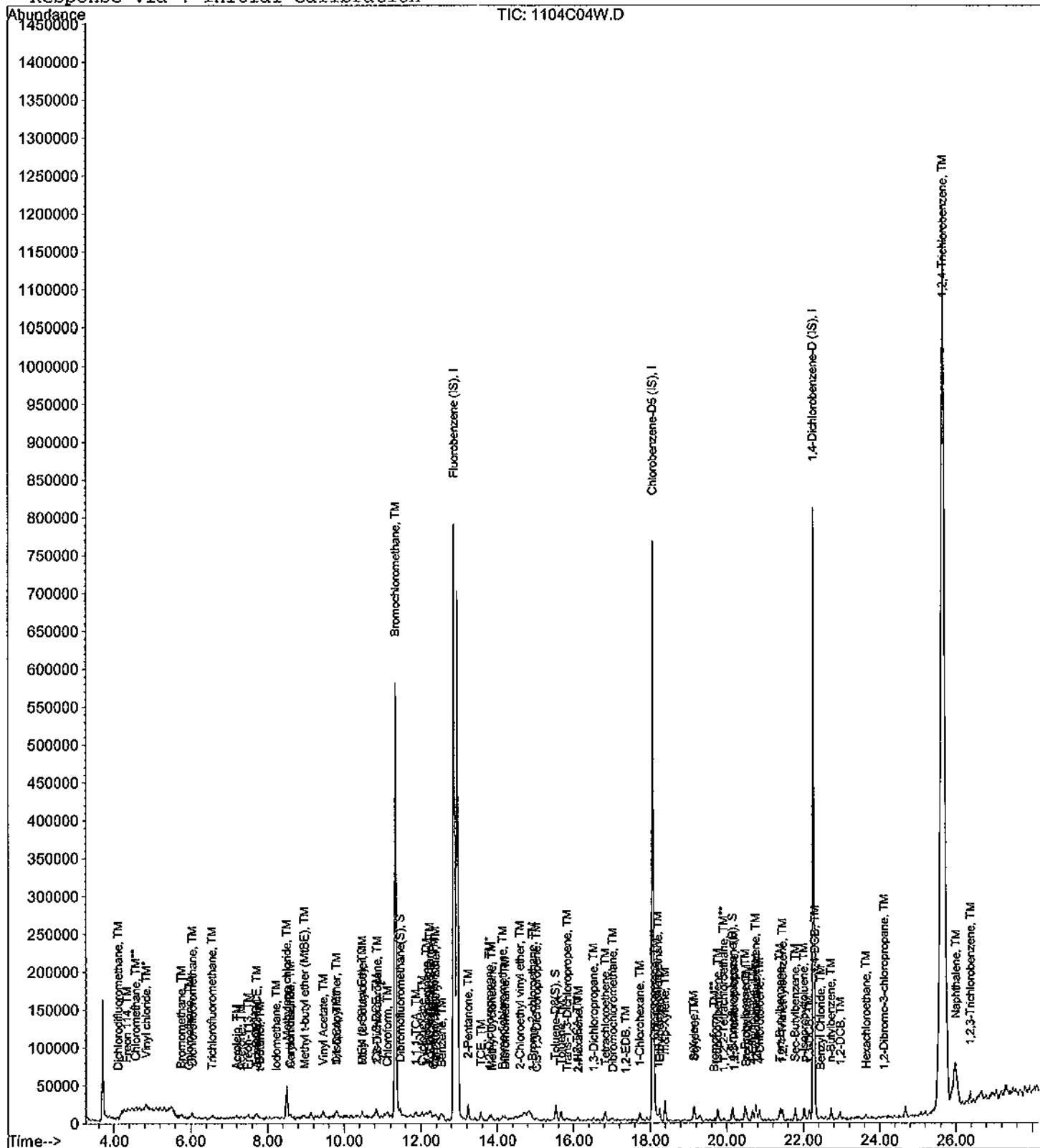
Data File : M:\CHICO\DATA\C111104\1104C04W.D
Acq On : 4 Nov 11 12:17
Sample : VOL STD 11-04-1100.3ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 8 16:00 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111104\1104C05W.D
 Acq On : 4 Nov 11 13:00
 Sample : VOL STD 11-04-11@0.5ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	12.88	96	379456	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.07	117	274368	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.27	152	122072	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.45	111	13304	1.00818	ppb	0.00
Spiked Amount	21.097		Recovery	=	4.778%	
38) 1,2-DCA-D4 (S)	12.26	65	10737	0.92974	ppb	0.00
Spiked Amount	21.225		Recovery	=	4.382%	
56) Toluene-D8 (S)	15.54	98	37528	0.92842	ppb	0.00
Spiked Amount	25.808		Recovery	=	3.596%	
64) 4-Bromofluorobenzene(S)	20.15	95	14569	1.02177	ppb	0.00
Spiked Amount	25.459		Recovery	=	4.014%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	4.09	85	6225	0.49007	ppb	# 56
3) Freon 114	4.34	85	5927	0.56509	ppb	# 40
4) Chloromethane	4.57	50	9824	0.59779	ppb	89
5) Vinyl chloride	4.86	62	6118	0.46190	ppb	99
7) Bromomethane	5.77	94	4148	0.52270	ppb	# 53
8) Chloroethane	5.93	64	1114	0.50610	ppb	# 77
9) Dichlorofluoromethane	6.04	67	13931	0.51059	ppb	88
10) Trichlorofluoromethane	6.57	101	9466	0.51758	ppb	# 57
11) Acetonitrile	7.68	41	10055	30.28098	ug/l	100
12) Acrolein	7.19	56	3593	22.36303	ppb	87
13) Acetone	7.31	43	3926	3.12029	ppb	# 73
14) Freon-113	7.50	101	5281	0.52456	ppb	85
15) 1,1-DCE	7.69	96	6961	0.66237	ppb	70
16) t-Butanol	7.79	59	1332	26.43849	ppb	95
17) Methyl Acetate	8.23	43	2439	0.29578	ppb	# 63
18) Iodomethane	8.20	142	2398	2.52742	ppb	# 93
19) Acrylonitrile	8.59	53	435	0.38692	ppb	85
20) Methylene chloride	8.51	84	24194	0.72008	ppb	88
21) Carbon disulfide	8.59	76	4703	0.54211	ppb	# 88
22) Methyl t-butyl ether (MtBE)	8.93	73	8555	0.50103	ppb	# 86
23) Trans-1,2-DCE	7.69	96	6961	0.66237	ppb	# 66
24) Diisopropyl Ether	9.78	45	15422	0.49537	ppb	# 95
25) 1,1-DCA	9.82	63	11227	0.51467	ppb	# 83
26) Vinyl Acetate	9.46	43	1673	0.96984	ppb	# 67
27) Ethyl tert Butyl Ether	10.49	59	13411	0.50924	ppb	99
28) MEK (2-Butanone)	10.45	43	1614	0.32749	ppb	# 73
29) Cis-1,2-DCE	10.85	96	8702	0.64134	ppb	90
30) 2,2-Dichloropropane	10.84	77	11904	0.59071	ppb	# 87
31) Chloroform	11.13	83	12758	0.55231	ppb	99
32) Bromochloromethane	11.35	128	2167	0.52948	ppb	# 34
34) 1,1,1-TCA	11.87	97	11964	0.53361	ppb	# 72
35) Cyclohexane	12.04	56	6852	0.47392	ppb	# 83
36) 1,1-Dichloropropene	12.14	75	7611	0.47232	ppb	90
37) 2,2,4-Trimethylpentane	12.22	57	18060	0.66787	ppb	# 90
39) Carbon Tetrachloride	12.33	117	8856	0.51708	ppb	97
40) Tert Amyl Methyl Ether	12.39	73	10694	0.55804	ppb	# 84
41) 1,2-DCA	12.41	62	6273	0.47713	ppb	97
42) Benzene	12.54	78	23197	0.56566	ppb	# 88
43) TCE	13.56	95	6694	0.51570	ppb	# 76

(#) = qualifier out of range (m) = manual integration
 1104C05W.D CALLW.M Thu Dec 08 16:56:25 2011

Data File : M:\CHICO\DATA\C111104\1104C05W.D
 Acq On : 4 Nov 11 13:00
 Sample : VOL STD 11-04-11@0.5ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 2-Pentanone	13.23	43	55093	23.68739	ppb	98
45) 1,2-Dichloropropane	13.80	63	4441	0.47470	ppb	97
46) Bromodichloromethane	14.15	83	7162	0.50836	ppb	94
47) Methyl Cyclohexane	13.86	83	7013	0.52288	ppb	100
48) Dibromomethane	14.20	93	1924	0.39162	ppb #	74
49) 2-Chloroethyl vinyl ether	14.62	63	1097	0.20735	ppb #	85
50) 1-Bromo-2-chloroethane	14.93	63	3370	0.41121	ppb #	56
51) Cis-1,3-Dichloropropene	15.04	75	5204	0.45118	ppb #	75
52) Toluene	15.66	91	23272	0.53492	ppb	98
53) Trans-1,3-Dichloropropene	15.83	75	4340	0.49513	ppb	83
54) 1,1,2-TCA	16.13	83	2302	0.53240	ppb #	56
57) 1,2-EDB	17.37	107	2862	0.49045	ppb #	81
58) Tetrachloroethene	16.83	164	7995	0.57488	ppb #	78
59) 1-Chlorohexane	17.74	91	7655	0.51461	ppb #	81
60) 1,1,1,2-Tetrachloroethane	18.20	131	4166	0.40430	ppb #	77
61) m&p-Xylene	18.38	106	19729	0.99117	ppb	65
62) o-Xylene	19.14	106	7864	0.41457	ppb	87
63) Styrene	19.15	104	13209	0.44081	ppb	94
65) 2-Hexanone	16.15	43	1303	0.57416	ppb #	59
66) 1,3-Dichloropropane	16.53	76	4871	0.50927	ppb	98
67) Dibromochloromethane	17.00	129	3598	0.44162	ppb	79
68) Chlorobenzene	18.14	112	14870	0.49937	ppb	87
69) Ethylbenzene	18.25	91	24052	0.46253	ppb	89
70) Bromoform	19.69	173	637	0.48847	ppb #	34
72) MIBK (methyl isobutyl keto	14.70	43	2659	-0.64769	ppb	97
73) Isopropylbenzene	19.76	105	23939	0.52518	ppb #	88
74) 1,1,2,2-Tetrachloroethane	19.94	83	2158	0.55668	ppb #	89
75) 1,2,3-Trichloropropane	20.19	110	662	0.06423	ppb #	40
76) t-1,4-Dichloro-2-Butene	20.27	53	677	0.35958	ppb #	52
77) Bromobenzene	20.51	156	5539	0.55327	ppb	97
78) n-Propylbenzene	20.47	91	27836	0.53648	ppb #	84
79) 4-Ethyltoluene	20.66	105	19354	0.53324	ppb	94
80) 2-Chlorotoluene	20.77	91	20569	0.59346	ppb	85
81) 1,3,5-Trimethylbenzene	20.75	105	22352	0.59065	ppb	95
82) 4-Chlorotoluene	20.85	91	15880	0.52150	ppb	84
83) Tert-Butylbenzene	21.40	119	20852	0.51882	ppb	92
84) 1,2,4-Trimethylbenzene	21.45	105	19787	0.53230	ppb	87
85) Sec-Butylbenzene	21.79	105	26453	0.54466	ppb	91
86) p-Isopropyltoluene	22.02	119	23380	0.54751	ppb	99
87) Benzyl Chloride	22.46	91	3833	0.52975	ppb #	66
88) 1,3-DCB	22.16	146	10678	0.54287	ppb	96
89) 1,4-DCB	22.33	146	9762	0.52976	ppb	86
90) Hexachloroethane	23.60	117	1904	0.79427	ppb #	57
91) n-Butylbenzene	22.72	91	20460	0.56908	ppb #	83
92) 1,2-DCB	22.96	146	8345	0.51240	ppb	98
93) 1,2-Dibromo-3-chloropropan	24.17	155	254	0.43006	ppb #	7
94) 1,2,4-Trichlorobenzene	25.64	145	1233	-0.72416	ppb #	50
95) Hexachlorobutadiene	25.89	223	4625	0.14590	ppb #	80
96) Naphthalene	25.99	128	9406	0.54248	ppb #	82
97) 1,2,3-Trichlorobenzene	26.36	180	2378	0.07698	ppb #	84

(#) = qualifier out of range (m) = manual integration
 1104C05W.D CALLW.M Thu Dec 08 16:56:27 2011

Quantitation Report

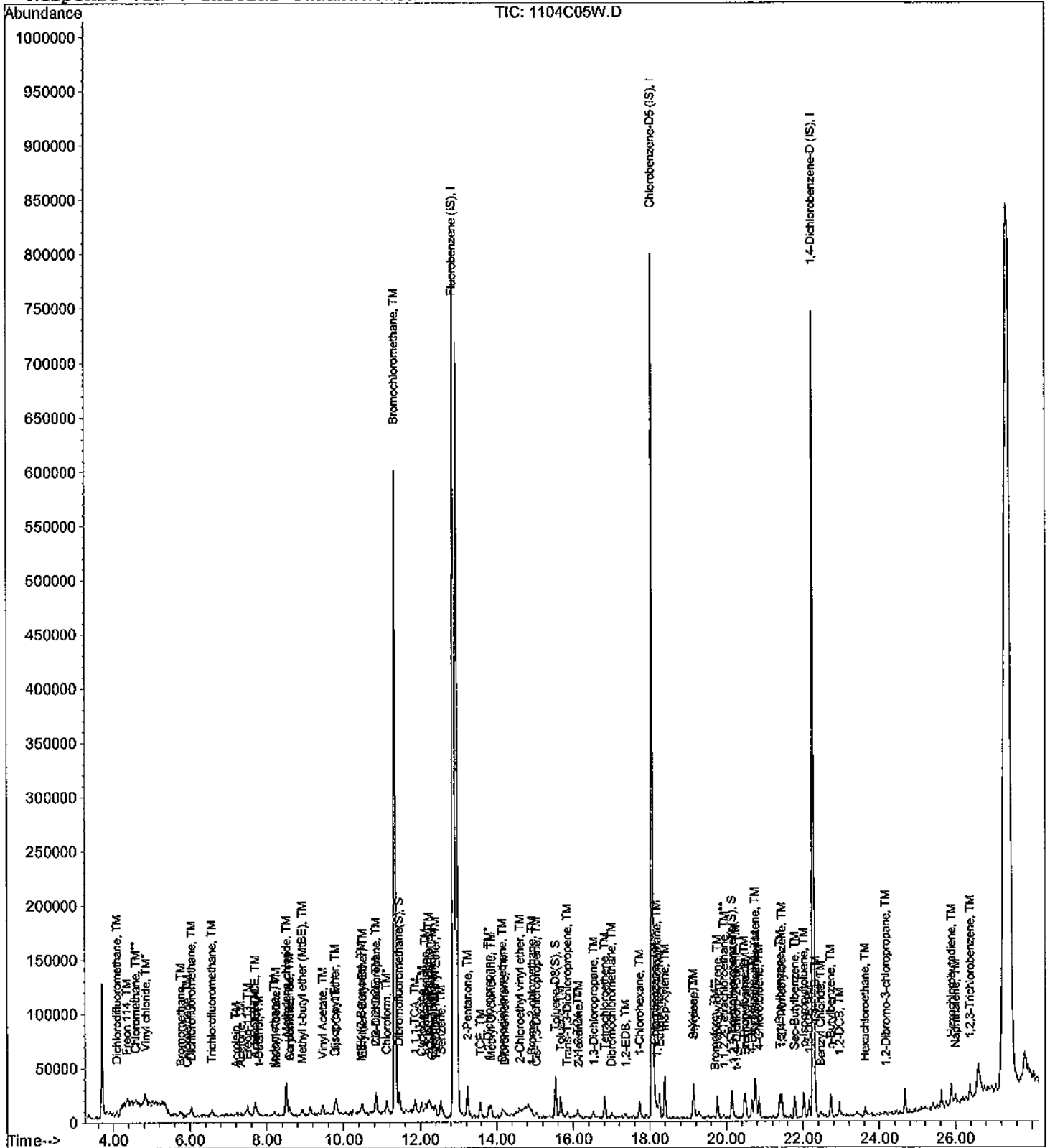
Data File : M:\CHICO\DATA\C111104\1104C05W.D
Acq On : 4 Nov 11 13:00
Sample : VOL STD 11-04-11@0.5ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 8 16:00 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111104\1104C06W.D Vial: 1
 Acq On : 4 Nov 11 13:43 Operator: STC
 Sample : VOL STD 11-04-11@1.0ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.87	96	363392	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.07	117	242560	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.28	152	120560	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.46	111	26701	2.11286	ppb	0.00
Spiked Amount	21.097		Recovery	=	10.016%	
38) 1,2-DCA-D4(S)	12.25	65	22815	2.06292	ppb	-0.01
Spiked Amount	21.225		Recovery	=	9.720%	
56) Toluene-D8(S)	15.53	98	74261	2.07808	ppb	-0.01
Spiked Amount	25.808		Recovery	=	8.052%	
64) 4-Bromofluorobenzene(S)	20.15	95	24424	1.93755	ppb	0.00
Spiked Amount	25.459		Recovery	=	7.612%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	4.09	85	11317	0.93034	ppb	88
3) Freon 114	4.37	85	9540	0.94976	ppb	92
4) Chloromethane	4.58	50	16314	1.03659	ppb	99
5) Vinyl chloride	4.84	62	13331	1.05097	ppb	# 68
7) Bromomethane	5.75	94	7776	1.02318	ppb	96
8) Chloroethane	5.96	64	2319	1.10012	ppb	92
9) Dichlorofluoromethane	6.03	67	25557	0.97810	ppb	100
10) Trichlorofluoromethane	6.57	101	17467	0.99729	ppb	96
11) Acetonitrile	7.69	41	15197	47.78941	ug/l	100
12) Acrolein	7.19	56	6910	44.90944	ppb	96
13) Acetone	7.29	43	4362	3.62007	ppb	# 1
14) Freon-113	7.50	101	9404	0.97539	ppb	# 89
15) 1,1-DCE	7.71	96	10585	1.05174	ppb	91
16) t-Butanol	7.80	59	2733	56.64454	ppb	# 82
17) Methyl Acetate	8.23	43	4620	1.15730	ppb	# 88
18) Iodomethane	8.19	142	4740	2.78908	ppb	87
19) Acrylonitrile	8.58	53	1260	1.17027	ppb	# 36
20) Methylene chloride	8.50	84	25453	1.01144	ppb	98
21) Carbon disulfide	8.59	76	8033	0.96689	ppb	# 77
22) Methyl t-butyl ether (MtBE)	8.92	73	15960	0.97603	ppb	# 80
23) Trans-1,2-DCE	7.71	96	10585	1.05174	ppb	92
24) Diisopropyl Ether	9.79	45	28656	0.96115	ppb	# 86
25) 1,1-DCA	9.83	63	21752	1.04124	ppb	# 87
26) Vinyl Acetate	9.46	43	1980	1.19855	ppb	85
27) Ethyl tert Butyl Ether	10.47	59	24840	0.98491	ppb	92
28) MEK (2-Butanone)	10.48	43	6062	1.28438	ppb	# 91
29) Cis-1,2-DCE	10.85	96	14356	1.10481	ppb	# 64
30) 2,2-Dichloropropane	10.85	77	20456	1.05995	ppb	# 85
31) Chloroform	11.13	83	22815	1.03135	ppb	92
32) Bromochloromethane	11.34	128	4493	1.14633	ppb	# 72
34) 1,1,1-TCA	11.87	97	21709	1.01106	ppb	# 76
35) Cyclohexane	12.03	56	14954	1.08002	ppb	# 74
36) 1,1-Dichloropropene	12.14	75	15352	0.99482	ppb	# 88
37) 2,2,4-Trimethylpentane	12.22	57	26136	1.05657	ppb	96
39) Carbon Tetrachloride	12.34	117	16684	1.01720	ppb	# 75
40) Tert Amyl Methyl Ether	12.37	73	17931	0.97704	ppb	# 92
41) 1,2-DCA	12.41	62	12553	0.99700	ppb	96
42) Benzene	12.53	78	40089	1.02078	ppb	93
43) TCE	13.58	95	12629	1.01594	ppb	# 76

(#) = qualifier out of range (m) = manual integration
 1104C06W.D CALLW.M Thu Dec 08 16:56:32 2011

Data File : M:\CHICO\DATA\C111104\1104C06W.D
 Acq On : 4 Nov 11 13:43
 Sample : VOL STD 11-04-11@1.0ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 2-Pentanone	13.24	43	105157	47.21120	ppb	# 88
45) 1,2-Dichloropropane	13.80	63	8747	0.97629	ppb	# 94
46) Bromodichloromethane	14.15	83	13180	0.97687	ppb	# 77
47) Methyl Cyclohexane	13.85	83	11296	0.87945	ppb	# 70
48) Dibromomethane	14.20	93	5418	1.15155	ppb	# 59
49) 2-Chloroethyl vinyl ether	14.60	63	1544	0.42607	ppb	# 46
50) 1-Bromo-2-chloroethane	14.91	63	8994	1.14597	ppb	99
51) Cis-1,3-Dichloropropene	15.05	75	10517	0.95212	ppb	# 60
52) Toluene	15.68	91	44786	1.07495	ppb	88
53) Trans-1,3-Dichloropropene	15.83	75	7466	0.88941	ppb	83
54) 1,1,2-TCA	16.10	83	4636	1.11960	ppb	# 53
57) 1,2-EDB	17.36	107	4732	0.91725	ppb	# 81
58) Tetrachloroethene	16.83	164	13253	1.07791	ppb	92
59) 1-Chlorohexane	17.74	91	12463	0.94771	ppb	# 71
60) 1,1,1,2-Tetrachloroethane	18.19	131	9022	0.99038	ppb	# 78
61) m&p-Xylene	18.39	106	31780	1.80597	ppb	99
62) o-Xylene	19.13	106	16664	0.99369	ppb	85
63) Styrene	19.15	104	26160	0.98748	ppb	92
65) 2-Hexanone	16.14	43	2239	1.11599	ppb	# 72
66) 1,3-Dichloropropane	16.54	76	8044	0.95130	ppb	# 77
67) Dibromochloromethane	17.01	129	5798	0.80497	ppb	# 65
68) Chlorobenzene	18.15	112	24859	0.94429	ppb	88
69) Ethylbenzene	18.24	91	47931	1.04259	ppb	# 81
70) Bromoform	19.69	173	2770	1.10330	ppb	# 70
72) MIBK (methyl isobutyl keto	14.72	43	3902	-0.11892	ppb	# 61
73) Isopropylbenzene	19.77	105	44501	0.98851	ppb	95
74) 1,1,2,2-Tetrachloroethane	19.93	83	4000	1.04479	ppb	# 49
75) 1,2,3-Trichloropropane	20.19	110	863	0.54942	ppb	# 60
76) t-1,4-Dichloro-2-Butene	20.25	53	974	0.68726	ppb	# 72
77) Bromobenzene	20.52	156	10924	1.10484	ppb	95
78) n-Propylbenzene	20.48	91	51506	1.00512	ppb	93
79) 4-Ethyltoluene	20.68	105	35145	0.98045	ppb	95
80) 2-Chlorotoluene	20.77	91	34051	0.99476	ppb	92
81) 1,3,5-Trimethylbenzene	20.76	105	38780	1.03761	ppb	88
82) 4-Chlorotoluene	20.84	91	33630	1.11826	ppb	93
83) Tert-Butylbenzene	21.40	119	42596	1.07314	ppb	98
84) 1,2,4-Trimethylbenzene	21.45	105	35102	0.95614	ppb	92
85) Sec-Butylbenzene	21.79	105	45560	0.94983	ppb	# 86
86) p-Isopropyltoluene	22.02	119	40247	0.95432	ppb	96
87) Benzyl Chloride	22.47	91	5644	0.78983	ppb	# 75
88) 1,3-DCB	22.16	146	19204	0.98858	ppb	90
89) 1,4-DCB	22.32	146	17561	0.96494	ppb	# 78
90) Hexachloroethane	23.63	117	4579	1.13327	ppb	91
91) n-Butylbenzene	22.74	91	36370	1.02430	ppb	87
92) 1,2-DCB	22.95	146	16350	1.01651	ppb	84
93) 1,2-Dibromo-3-chloropropan	24.18	155	582	0.99778	ppb	# 59
94) 1,2,4-Trichlorobenzene	25.62	145	2064	-0.05389	ppb	79
95) Hexachlorobutadiene	25.89	223	8162	0.75407	ppb	95
96) Naphthalene	25.99	128	19449	1.13577	ppb	99
97) 1,2,3-Trichlorobenzene	26.38	180	3944	0.47493	ppb	82

Quantitation Report

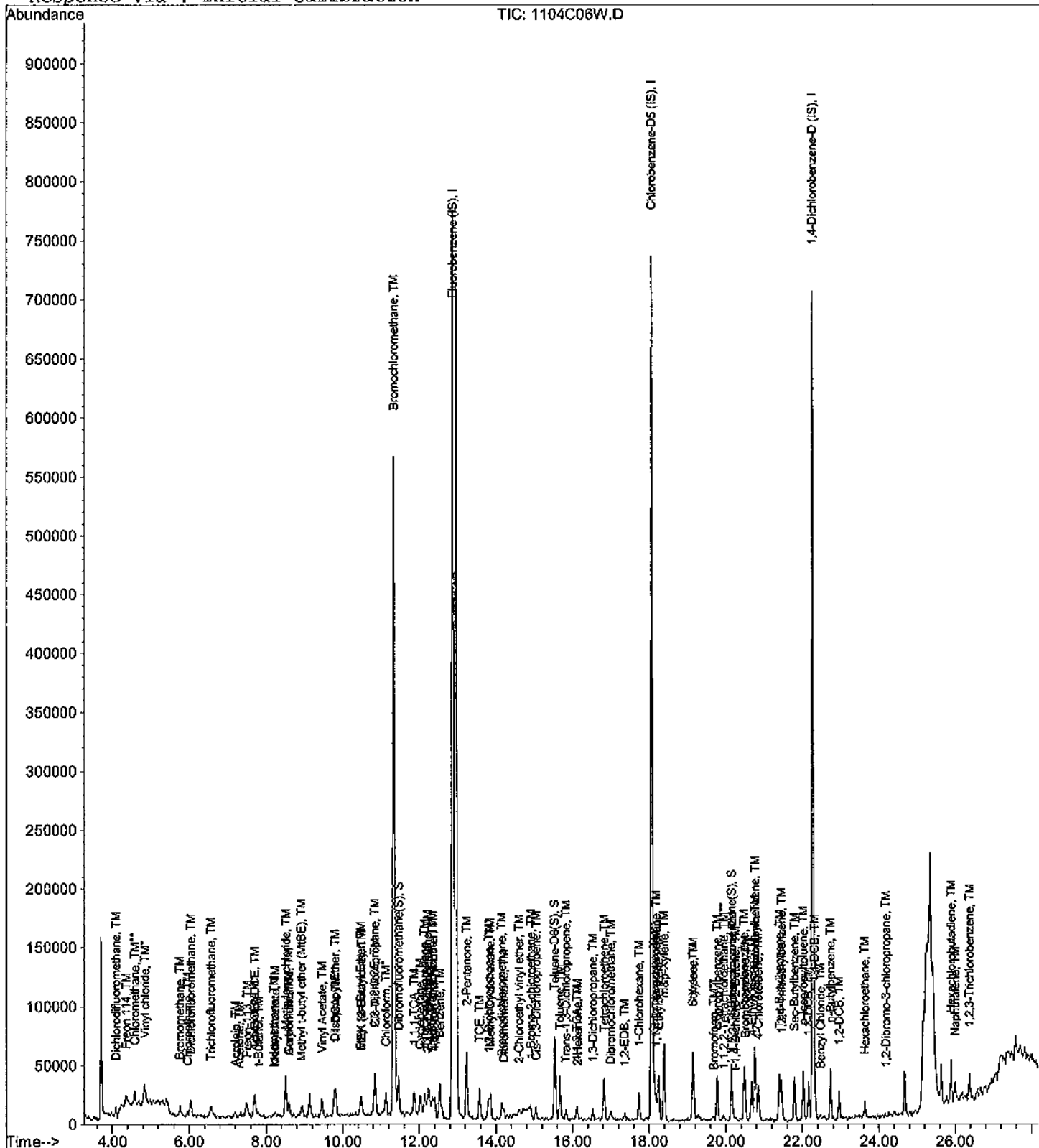
Data File : M:\CHICO\DATA\C111104\1104C06W.D
 Acq On : 4 Nov 11 13:43
 Sample : VOL STD 11-04-11@1.0ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111104\1104C07W.D Vial: 1
 Acq On : 4 Nov 11 14:26 Operator: STC
 Sample : VOL STD 11-04-11@2.0ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.88	96	405440	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.07	117	254080	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.28	152	128752	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.46	111	51919	3.68229	ppb	0.00
Spiked Amount	21.097		Recovery	=	17.452%	
38) 1,2-DCA-D4(S)	12.26	65	44969	3.64439	ppb	0.00
Spiked Amount	21.225		Recovery	=	17.168%	
56) Toluene-D8(S)	15.54	98	138796	3.70789	ppb	0.00
Spiked Amount	25.808		Recovery	=	14.367%	
64) 4-Bromofluorobenzene(S)	20.15	95	50883	3.85352	ppb	0.00
Spiked Amount	25.459		Recovery	=	15.138%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.10	85	27062	1.99397	ppb	99
3) Freon 114	4.36	85	20296	1.81103	ppb	95
4) Chloromethane	4.58	50	32393	1.84478	ppb	91
5) Vinyl chloride	4.84	62	25730	1.81809	ppb	98
7) Bromomethane	5.76	94	18236	2.15068	ppb	90
8) Chloroethane	5.94	64	4232	1.79943	ppb	98
9) Dichlorofluoromethane	6.03	67	54646	1.87447	ppb	96
10) Trichlorofluoromethane	6.56	101	38915	1.99144	ppb	95
11) Acetonitrile	7.69	41	22571	63.61703	ug/l	100
12) Acrolein	7.20	56	10810	62.97005	ppb	84
13) Acetone	7.32	43	4938	3.67309	ppb	# 73
14) Freon-113	7.50	101	21701	2.01741	ppb	89
15) 1,1-DCE	7.71	96	20479	1.82379	ppb	95
16) t-Butanol	7.80	59	3146	58.44211	ppb	# 80
17) Methyl Acetate	8.24	43	9246	2.54036	ppb	99
18) Iodomethane	8.20	142	10901	3.32776	ppb	83
19) Acrylonitrile	8.58	53	2568	2.13776	ppb	# 46
20) Methylene chloride	8.49	84	29733	1.16412	ppb	94
21) Carbon disulfide	8.59	76	14346	1.54768	ppb	97
22) Methyl t-butyl ether (MtBE)	8.93	73	34227	1.87606	ppb	# 91
23) Trans-1,2-DCE	7.71	96	20479	1.82379	ppb	93
24) Diisopropyl Ether	9.79	45	60417	1.81628	ppb	# 93
25) 1,1-DCA	9.83	63	42340	1.81658	ppb	92
26) Vinyl Acetate	9.46	43	4367	2.36931	ppb	83
27) Ethyl tert Butyl Ether	10.48	59	51673	1.83636	ppb	95
28) MEK (2-Butanone)	10.49	43	10102	1.91838	ppb	95
29) Cis-1,2-DCE	10.85	96	29863	2.05986	ppb	83
30) 2,2-Dichloropropane	10.85	77	39482	1.83364	ppb	91
31) Chloroform	11.13	83	45920	1.86053	ppb	96
32) Bromochloromethane	11.36	128	7996	1.82851	ppb	94
34) 1,1,1-TCA	11.87	97	45731	1.90896	ppb	96
35) Cyclohexane	12.03	56	30255	1.95849	ppb	# 74
36) 1,1-Dichloropropene	12.14	75	34068	1.97867	ppb	93
37) 2,2,4-Trimethylpentane	12.21	57	55159	2.08114	ppb	# 85
39) Carbon Tetrachloride	12.33	117	32043	1.75101	ppb	95
40) Tert Amyl Methyl Ether	12.38	73	38088	1.86013	ppb	95
41) 1,2-DCA	12.41	62	26100	1.85795	ppb	# 93
42) Benzene	12.54	78	84212	1.92190	ppb	95
43) TCE	13.57	95	25590	1.84509	ppb	96

(#) = qualifier out of range (m) = manual integration
 1104C07W.D CALLW.M Thu Dec 08 16:56:39 2011

Data File : M:\CHICO\DATA\C111104\1104C07W.D
 Acq On : 4 Nov 11 14:26
 Sample : VOL STD 11-04-11@2.0ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 2-Pentanone	13.23	43	169607	68.24948	ppb	97
45) 1,2-Dichloropropane	13.80	63	19588	1.95957	ppb #	91
46) Bromodichloromethane	14.15	83	25321	1.68209	ppb #	90
47) Methyl Cyclohexane	13.85	83	28638	1.99837	ppb	96
48) Dibromomethane	14.21	93	9441	1.79851	ppb	76
49) 2-Chloroethyl vinyl ether	14.62	63	5069	1.75350	ppb #	78
50) 1-Bromo-2-chloroethane	14.91	63	15793	1.80357	ppb	93
51) Cis-1,3-Dichloropropene	15.03	75	22467	1.82302	ppb	99
52) Toluene	15.67	91	86572	1.86239	ppb	97
53) Trans-1,3-Dichloropropene	15.85	75	17331	1.85048	ppb #	77
54) 1,1,2-TCA	16.12	83	7190	1.55632	ppb #	65
57) 1,2-EDB	17.36	107	10335	1.91250	ppb #	72
58) Tetrachloroethene	16.82	164	28124	2.18371	ppb	95
59) 1-Chlorohexane	17.74	91	27299	1.98174	ppb	94
60) 1,1,1,2-Tetrachloroethane	18.20	131	17365	1.81980	ppb	93
61) m&p-Xylene	18.39	106	78641	4.26633	ppb	98
62) o-Xylene	19.14	106	36995	2.10602	ppb	98
63) Styrene	19.16	104	56601	2.03969	ppb	96
65) 2-Hexanone	16.14	43	4763	2.26639	ppb	89
66) 1,3-Dichloropropane	16.53	76	18858	2.12907	ppb	88
67) Dibromochloromethane	17.02	129	15484	2.05227	ppb	89
68) Chlorobenzene	18.14	112	52036	1.88701	ppb	87
69) Ethylbenzene	18.26	91	98687	2.04931	ppb	95
70) Bromoform	19.68	173	5673	1.83889	ppb	95
72) MIBK (methyl isobutyl keto)	14.70	43	7800	1.29079	ppb	99
73) Isopropylbenzene	19.77	105	100142	2.08295	ppb	96
74) 1,1,2,2-Tetrachloroethane	19.93	83	8802	2.15277	ppb #	63
75) 1,2,3-Trichloropropane	20.19	110	1198	1.14964	ppb #	46
76) t-1,4-Dichloro-2-Butene	20.27	53	1703	1.35322	ppb #	61
77) Bromobenzene	20.52	156	23264	2.20318	ppb	84
78) n-Propylbenzene	20.48	91	116443	2.12776	ppb	96
79) 4-Ethyltoluene	20.67	105	86828	2.26815	ppb	93
80) 2-Chlorotoluene	20.77	91	79320	2.16981	ppb	92
81) 1,3,5-Trimethylbenzene	20.75	105	80883	2.02644	ppb	93
82) 4-Chlorotoluene	20.86	91	69620	2.16771	ppb	85
83) Tert-Butylbenzene	21.40	119	89897	2.12071	ppb	85
84) 1,2,4-Trimethylbenzene	21.46	105	80754	2.05969	ppb	93
85) Sec-Butylbenzene	21.80	105	102495	2.00084	ppb	100
86) p-Isopropyltoluene	22.03	119	92643	2.05693	ppb	91
87) Benzyl Chloride	22.47	91	13240	1.73493	ppb	98
88) 1,3-DCB	22.16	146	39095	1.88448	ppb	98
89) 1,4-DCB	22.33	146	37516	1.93026	ppb	90
90) Hexachloroethane	23.62	117	8791	1.59199	ppb	93
91) n-Butylbenzene	22.73	91	70934	1.87062	ppb	95
92) 1,2-DCB	22.97	146	35979	2.09456	ppb #	80
93) 1,2-Dibromo-3-chloropropan	24.18	155	1017	1.63261	ppb #	52
94) 1,2,4-Trichlorobenzene	25.64	145	2812	0.39684	ppb #	56
95) Hexachlorobutadiene	25.90	223	14897	1.73280	ppb	89
96) Naphthalene	25.99	128	32493	1.77677	ppb	94
97) 1,2,3-Trichlorobenzene	26.37	180	9996	1.82764	ppb	89

Quantitation Report

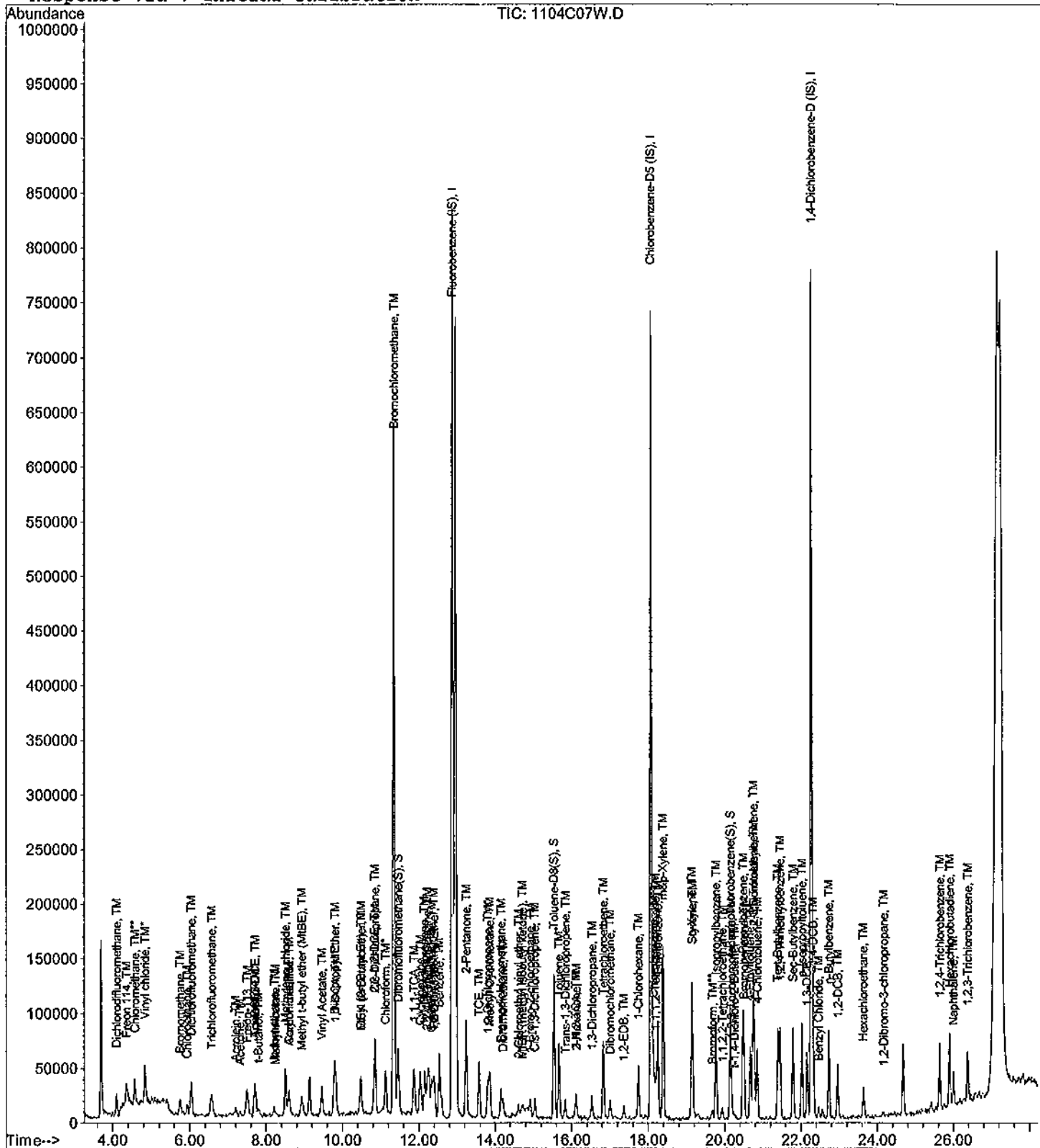
Data File : M:\CHICO\DATA\C111104\1104C07W.D
Acq On : 4 Nov 11 14:26
Sample : VOL STD 11-04-11@2.0ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 8 16:00 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111104\1104C08W.D
 Acq On : 4 Nov 11 15:10
 Sample : VOL STD 11-04-11@5.0ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.88	96	342528	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.07	117	236800	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.27	152	124656	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.47	111	116622	9.79046	ppb	0.00
Spiked Amount	21.097		Recovery	=	46.404%	
38) 1,2-DCA-D4(S)	12.26	65	104785	10.05173	ppb	0.00
Spiked Amount	21.225		Recovery	=	47.359%	
56) Toluene-D8(S)	15.54	98	353632	10.13655	ppb	0.00
Spiked Amount	25.808		Recovery	=	39.278%	
64) 4-Bromofluorobenzene(S)	20.14	95	115574	9.39148	ppb	0.00
Spiked Amount	25.459		Recovery	=	36.886%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	4.10	85	44758	3.90355	ppb	99
3) Freon 114	4.37	85	40847	4.31426	ppb	89
4) Chloromethane	4.58	50	75808	5.11022	ppb	98
5) Vinyl chloride	4.85	62	63322	5.29617	ppb	98
7) Bromomethane	5.75	94	38201	5.33275	ppb	100
8) Chloroethane	5.95	64	10110	5.08828	ppb	# 90
9) Dichlorofluoromethane	6.03	67	133932	5.43796	ppb	99
10) Trichlorofluoromethane	6.55	101	76503	4.63403	ppb	86
11) Acetonitrile	7.68	41	31305	104.43999	ug/l	100
12) Acrolein	7.19	56	13534	93.31791	ppb	99
13) Acetone	7.32	43	7782	6.85175	ppb	# 71
14) Freon-113	7.50	101	41742	4.59322	ppb	93
15) 1,1-DCE	7.72	96	49004	5.16569	ppb	95
16) t-Butanol	7.81	59	4581	100.72981	ppb	# 61
17) Methyl Acetate	8.23	43	15748	5.71604	ppb	# 80
18) Iodomethane	8.20	142	26716	5.31661	ppb	# 86
19) Acrylonitrile	8.60	53	5699	5.61556	ppb	77
20) Methylene chloride	8.51	84	47744	4.22712	ppb	97
21) Carbon disulfide	8.59	76	46384	5.92310	ppb	96
22) Methyl t-butyl ether (MtBE)	8.94	73	85722	5.56162	ppb	96
23) Trans-1,2-DCE	7.72	96	49004	5.16569	ppb	95
24) Diisopropyl Ether	9.79	45	160710	5.71870	ppb	98
25) 1,1-DCA	9.82	63	111916	5.68362	ppb	# 90
26) Vinyl Acetate	9.46	43	6763	4.34318	ppb	# 76
27) Ethyl tert Butyl Ether	10.48	59	136225	5.73034	ppb	98
28) MEK (2-Butanone)	10.47	43	23651	5.31628	ppb	99
29) Cis-1,2-DCE	10.86	96	62091	5.06949	ppb	93
30) 2,2-Dichloropropane	10.85	77	100729	5.53732	ppb	96
31) Chloroform	11.13	83	116745	5.59892	ppb	93
32) Bromochloromethane	11.35	128	21732	5.88239	ppb	79
34) 1,1,1-TCA	11.87	97	114421	5.65356	ppb	85
35) Cyclohexane	12.04	56	65806	5.04221	ppb	89
36) 1,1-Dichloropropene	12.14	75	78057	5.36623	ppb	91
37) 2,2,4-Trimethylpentane	12.22	57	107532	4.92340	ppb	96
39) Carbon Tetrachloride	12.34	117	78677	5.08900	ppb	92
40) Tert Amyl Methyl Ether	12.40	73	92058	5.32167	ppb	99
41) 1,2-DCA	12.42	62	64446	5.43027	ppb	# 89
42) Benzene	12.53	78	197081	5.32392	ppb	98
43) TCE	13.58	95	66285	5.65709	ppb	87

(#) = qualifier out of range (m) = manual integration
 1104C08W.D CALLW.M Thu Dec 08 16:56:45 2011

Data File : M:\CHICO\DATA\C111104\1104C08W.D
 Acq On : 4 Nov 11 15:10
 Sample : VOL STD 11-04-11@5.0ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 2-Pentanone	13.24	43	232888	110.92596	ppb	99
45) 1,2-Dichloropropane	13.80	63	45996	5.44654	ppb #	90
46) Bromodichloromethane	14.16	83	69553	5.46908	ppb #	95
47) Methyl Cyclohexane	13.86	83	59203	4.88999	ppb	99
48) Dibromomethane	14.21	93	26776	6.03768	ppb	98
49) 2-Chloroethyl vinyl ether	14.62	63	13278	5.95454	ppb #	75
50) 1-Bromo-2-chloroethane	14.92	63	43687	5.90542	ppb	97
51) Cis-1,3-Dichloropropene	15.05	75	60874	5.84667	ppb #	81
52) Toluene	15.68	91	222841	5.67439	ppb	100
53) Trans-1,3-Dichloropropene	15.85	75	46577	5.88658	ppb	99
54) 1,1,2-TCA	16.11	83	23550	6.03379	ppb	82
57) 1,2-EDB	17.37	107	26711	5.30358	ppb #	81
58) Tetrachloroethene	16.84	164	65659	5.47017	ppb	95
59) 1-Chlorohexane	17.75	91	64058	4.98955	ppb	94
60) 1,1,1,2-Tetrachloroethane	18.21	131	46457	5.22383	ppb	82
61) m&p-Xylene	18.39	106	178767	10.40596	ppb	99
62) o-Xylene	19.15	106	87743	5.35947	ppb	94
63) Styrene	19.16	104	135120	5.22456	ppb	100
65) 2-Hexanone	16.15	43	9905	5.05705	ppb #	74
66) 1,3-Dichloropropane	16.54	76	45496	5.51134	ppb	90
67) Dibromochloromethane	17.01	129	36601	5.20514	ppb	100
68) Chlorobenzene	18.14	112	137665	5.35653	ppb	97
69) Ethylbenzene	18.26	91	229662	5.11712	ppb	100
70) Bromoform	19.68	173	14913	4.56560	ppb	81
72) MIBK (methyl isobutyl keto)	14.70	43	16221	4.76536	ppb #	70
73) Isopropylbenzene	19.78	105	243877	5.23930	ppb	97
74) 1,1,2,2-Tetrachloroethane	19.94	83	19338	4.88505	ppb #	68
75) 1,2,3-Trichloropropane	20.20	110	2914	5.08581	ppb	97
76) t-1,4-Dichloro-2-Butene	20.25	53	4188	3.98826	ppb #	75
77) Bromobenzene	20.51	156	52962	5.18049	ppb	96
78) n-Propylbenzene	20.48	91	274382	5.17853	ppb	92
79) 4-Ethyltoluene	20.68	105	195340	5.27042	ppb	95
80) 2-Chlorotoluene	20.77	91	190818	5.39137	ppb	96
81) 1,3,5-Trimethylbenzene	20.75	105	207757	5.37617	ppb	97
82) 4-Chlorotoluene	20.85	91	168165	5.40808	ppb	98
83) Tert-Butylbenzene	21.39	119	218550	5.32509	ppb	89
84) 1,2,4-Trimethylbenzene	21.46	105	211097	5.56109	ppb	99
85) Sec-Butylbenzene	21.80	105	270260	5.44920	ppb	99
86) p-Isopropyltoluene	22.03	119	231392	5.30636	ppb	99
87) Benzyl Chloride	22.47	91	38003	5.14343	ppb	95
88) 1,3-DCB	22.17	146	111833	5.56777	ppb	97
89) 1,4-DCB	22.33	146	102082	5.42488	ppb	97
90) Hexachloroethane	23.64	117	35887	4.91173	ppb	79
91) n-Butylbenzene	22.74	91	199976	5.44691	ppb	91
92) 1,2-DCB	22.97	146	93313	5.61082	ppb	94
93) 1,2-Dibromo-3-chloropropan	24.18	155	3619	6.00053	ppb #	55
94) 1,2,4-Trichlorobenzene	25.63	145	9382	5.49802	ppb	91
95) Hexachlorobutadiene	25.90	223	37379	5.48193	ppb	91
96) Naphthalene	26.00	128	96790	5.46655	ppb	95
97) 1,2,3-Trichlorobenzene	26.37	180	25856	5.75152	ppb	93

(#) = qualifier out of range (m) = manual integration
 1104C08W.D CALLW.M Thu Dec 08 16:56:46 2011

Quantitation Report

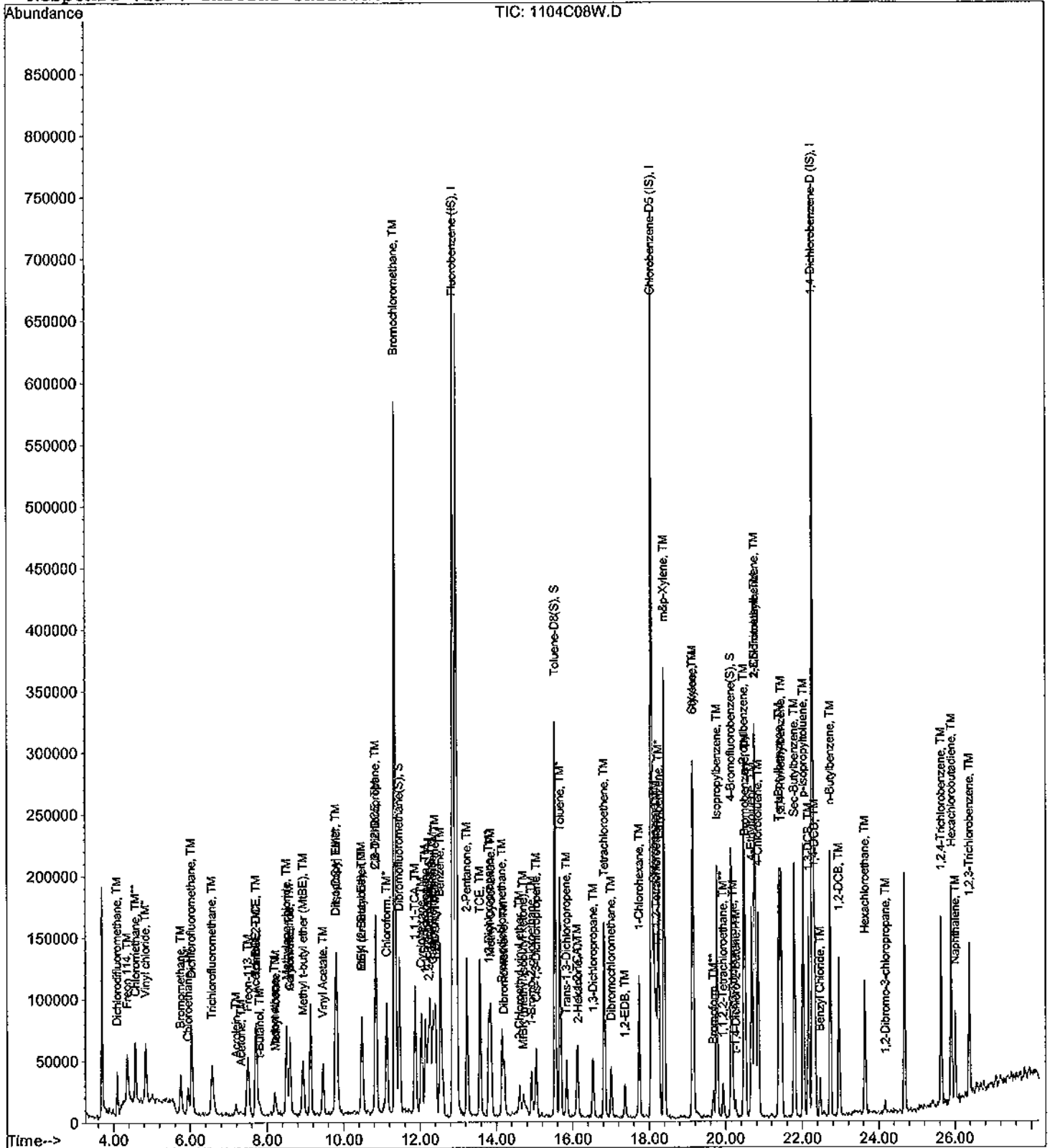
Data File : M:\CHICO\DATA\C111104\1104C08W.D
Acq On : 4 Nov 11 15:10
Sample : VOL STD 11-04-11@5.0ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 8 16:00 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111104\1104C09W.D Vial: 1
 Acq On : 4 Nov 11 15:53 Operator: STC
 Sample : VOL STD 11-04-11@10ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	12.88	96	379520	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.07	117	242112	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.28	152	128488	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane (S)	11.46	111	287229	21.76268	ppb	0.00
Spiked Amount	21.097		Recovery	=	103.156%	
38) 1,2-DCA-D4 (S)	12.27	65	258245	22.35810	ppb	0.00
Spiked Amount	21.225		Recovery	=	105.337%	
56) Toluene-D8 (S)	15.55	98	879576	24.65911	ppb	0.00
Spiked Amount	25.808		Recovery	=	95.547%	
64) 4-Bromofluorobenzene (S)	20.15	95	277092	22.02233	ppb	0.00
Spiked Amount	25.459		Recovery	=	86.498%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.09	85	127173	10.01025	ppb	100
3) Freon 114	4.36	85	108450	10.33801	ppb	100
4) Chloromethane	4.58	50	145302	8.84010	ppb	100
5) Vinyl chloride	4.84	62	134944	10.18643	ppb	100
7) Bromomethane	5.76	94	71701	9.03366	ppb	100
8) Chloroethane	5.95	64	22160	10.06586	ppb	100
9) Dichlorofluoromethane	6.04	67	262793	9.63001	ppb	100
10) Trichlorofluoromethane	6.55	101	188786	10.32076	ppb	100
11) Acetonitrile	7.68	41	37382	112.55818	ug/l	100
12) Acrolein	7.19	56	20448	127.24803	ppb	100
13) Acetone	7.31	43	14935	11.86799	ppb	100
14) Freon-113	7.50	101	107086	10.63502	ppb	100
15) 1,1-DCE	7.72	96	99219	9.43959	ppb	100
16) t-Butanol	7.81	59	6419	127.38741	ppb	100
17) Methyl Acetate	8.22	43	28532	9.71849	ppb	100
18) Iodomethane	8.19	142	65986	9.04723	ppb	100
19) Acrylonitrile	8.59	53	10812	9.61528	ppb	100
20) Methylene chloride	8.50	84	91172	8.90345	ppb	100
21) Carbon disulfide	8.59	76	81832	9.43117	ppb	100
22) Methyl t-butyl ether (MtBE)	8.93	73	169951	9.95163	ppb	100
23) Trans-1,2-DCE	7.72	96	99219	9.43959	ppb	100
24) Diisopropyl Ether	9.79	45	321134	10.31340	ppb	100
25) 1,1-DCA	9.83	63	218554	10.01736	ppb	100
26) Vinyl Acetate	9.46	43	17392	10.08044	ppb	100
27) Ethyl tert Butyl Ether	10.49	59	272154	10.33237	ppb	100
28) MEK (2-Butanone)	10.47	43	48790	9.89807	ppb	100
29) Cis-1,2-DCE	10.85	96	125309	9.23377	ppb	100
30) 2,2-Dichloropropane	10.85	77	196268	9.73769	ppb	100
31) Chloroform	11.13	83	232875	10.07976	ppb	100
32) Bromochloromethane	11.36	128	39959	9.76180	ppb	100
34) 1,1,1-TCA	11.88	97	221848	9.89312	ppb	100
35) Cyclohexane	12.04	56	143720	9.93880	ppb	100
36) 1,1-Dichloropropene	12.15	75	159974	9.92586	ppb	100
37) 2,2,4-Trimethylpentane	12.22	57	254541	10.62353	ppb	100
39) Carbon Tetrachloride	12.33	117	180276	10.52408	ppb	100
40) Tert Amyl Methyl Ether	12.38	73	179275	9.35336	ppb	100
41) 1,2-DCA	12.41	62	130074	9.89184	ppb	100
42) Benzene	12.54	78	395767	9.64913	ppb	100
43) TCE	13.57	95	132470	10.20369	ppb	100

(#) = qualifier out of range (m) = manual integration
 1104C09W.D CALLW.M Thu Dec 08 16:56:52 2011

Data File : M:\CHICO\DATA\C111104\1104C09W.D Vial: 1
 Acq On : 4 Nov 11 15:53 Operator: STC
 Sample : VOL STD 11-04-11@10ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 2-Pentanone	13.23	43	303865	130.62557	ppb	100
45) 1,2-Dichloropropane	13.81	63	94743	10.12532	ppb	100
46) Bromodichloromethane	14.15	83	143971	10.21728	ppb	100
47) Methyl Cyclohexane	13.85	83	142413	10.61635	ppb	100
48) Dibromomethane	14.21	93	49780	10.13073	ppb	100
49) 2-Chloroethyl vinyl ether	14.61	63	23727	9.72506	ppb	100
50) 1-Bromo-2-chloroethane	14.92	63	85645	10.44869	ppb	100
51) Cis-1,3-Dichloropropene	15.04	75	123425	10.69896	ppb	100
52) Toluene	15.67	91	420896	9.67298	ppb	100
53) Trans-1,3-Dichloropropene	15.84	75	89040	10.15636	ppb	100
54) 1,1,2-TCA	16.13	83	42304	9.78232	ppb	100
57) 1,2-EDB	17.37	107	50509	9.80873	ppb	100
58) Tetrachloroethene	16.83	164	127344	10.37649	ppb	100
59) 1-Chlorohexane	17.74	91	129788	9.88754	ppb	100
60) 1,1,1,2-Tetrachloroethane	18.20	131	101087	11.11729	ppb	100
61) m&p-Xylene	18.39	106	357586	20.35825	ppb	100
62) o-Xylene	19.15	106	172306	10.29378	ppb	100
63) Styrene	19.16	104	268277	10.14562	ppb	100
65) 2-Hexanone	16.15	43	20316	10.14486	ppb	100
66) 1,3-Dichloropropane	16.53	76	98404	11.65902	ppb	100
67) Dibromochloromethane	17.02	129	75267	10.46910	ppb	100
68) Chlorobenzene	18.14	112	273822	10.42062	ppb	100
69) Ethylbenzene	18.26	91	465715	10.14897	ppb	100
70) Bromoform	19.68	173	36380	10.34509	ppb	100
72) MIBK (methyl isobutyl keto	14.71	43	31808	10.63237	ppb	100
73) Isopropylbenzene	19.77	105	486728	10.14471	ppb	100
74) 1,1,2,2-Tetrachloroethane	19.94	83	39745	9.74072	ppb	100
75) 1,2,3-Trichloropropane	20.20	110	6223	12.10002	ppb	100
76) t-1,4-Dichloro-2-Butene	20.26	53	11077	10.79450	ppb	100
77) Bromobenzene	20.52	156	97097	9.21431	ppb	100
78) n-Propylbenzene	20.48	91	533031	9.76009	ppb	100
79) 4-Ethyltoluene	20.67	105	366054	9.58185	ppb	100
80) 2-Chlorotoluene	20.77	91	347971	9.53836	ppb	100
81) 1,3,5-Trimethylbenzene	20.75	105	384305	9.64814	ppb	100
82) 4-Chlorotoluene	20.86	91	291395	9.09160	ppb	100
83) Tert-Butylbenzene	21.40	119	412330	9.74701	ppb	100
84) 1,2,4-Trimethylbenzene	21.46	105	388890	9.93928	ppb	100
85) Sec-Butylbenzene	21.80	105	511951	10.01452	ppb	100
86) p-Isopropyltoluene	22.03	119	442619	9.84757	ppb	100
87) Benzyl Chloride	22.46	91	75328	9.89104	ppb	100
88) 1,3-DCB	22.16	146	208337	10.06303	ppb	100
89) 1,4-DCB	22.33	146	195945	10.10243	ppb	100
90) Hexachloroethane	23.63	117	78859	9.82085	ppb	100
91) n-Butylbenzene	22.73	91	354209	9.36014	ppb	100
92) 1,2-DCB	22.96	146	174981	10.20765	ppb	100
93) 1,2-Dibromo-3-chloropropan	24.18	155	5583	8.98089	ppb	100
94) 1,2,4-Trichlorobenzene	25.64	145	18480	12.04496	ppb	100
95) Hexachlorobutadiene	25.90	223	73499	11.00683	ppb	100
96) Naphthalene	26.00	128	189823	10.40116	ppb	100
97) 1,2,3-Trichlorobenzene	26.38	180	49368	11.13597	ppb	100

(#) = qualifier out of range (m) = manual integration
 1104C09W.D CALLW.M Thu Dec 08 16:56:53 2011

Quantitation Report

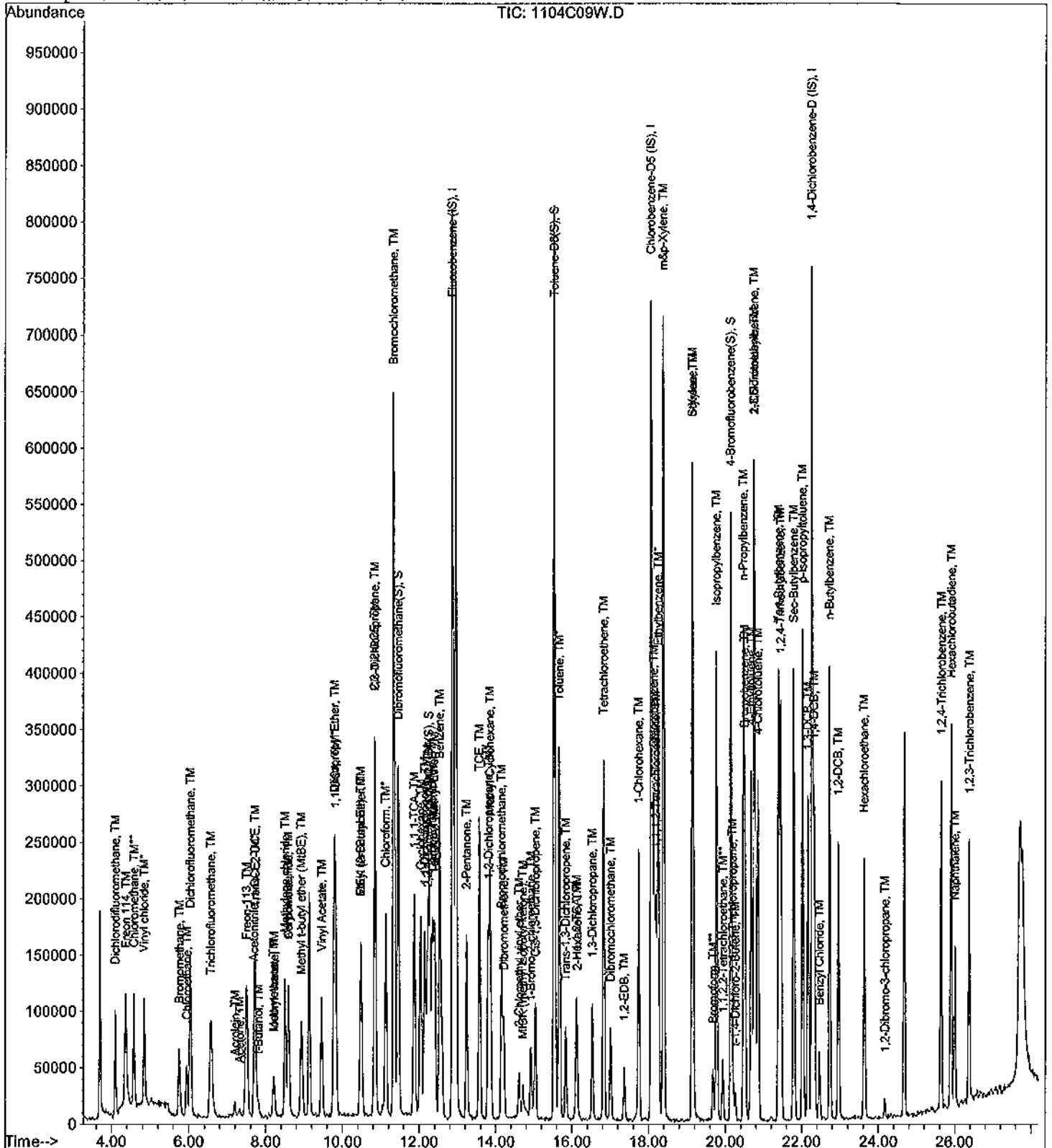
Data File : M:\CHICO\DATA\C111104\1104C09W.D
Acq On : 4 Nov 11 15:53
Sample : VOL STD 11-04-11@10ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 8 16:00 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111104\1104C10W.D
 Acq On : 4 Nov 11 16:36
 Sample : VOL STD 11-04-11@20ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	12.88	96	400704	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.08	117	269632	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.28	152	142144	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.46	111	492580	35.34857	ppb	0.00
Spiked Amount	21.097		Recovery	=	167.553%	
38) 1,2-DCA-D4(S)	12.27	65	429376	35.20885	ppb	0.00
Spiked Amount	21.225		Recovery	=	165.882%	
56) Toluene-D8(S)	15.54	98	1401114	35.27138	ppb	-0.01
Spiked Amount	25.808		Recovery	=	136.665%	
64) 4-Bromofluorobenzene(S)	20.15	95	492835	35.17109	ppb	0.00
Spiked Amount	25.459		Recovery	=	138.145%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	4.09	85	277038	20.65381	ppb	97
3) Freon 114	4.36	85	212178	19.15661	ppb	100
4) Chloromethane	4.58	50	305030	17.57678	ppb	100
5) Vinyl chloride	4.84	62	269268	19.25148	ppb	97
7) Bromomethane	5.75	94	158325	18.89291	ppb	97
8) Chloroethane	5.94	64	41240	17.74233	ppb	# 78
9) Dichlorofluoromethane	6.04	67	534205	18.54095	ppb	98
10) Trichlorofluoromethane	6.57	101	370398	19.17881	ppb	83
11) Acetonitrile	7.69	41	48933	139.54921	ug/l	100
12) Acrolein	7.19	56	27545	162.35064	ppb	90
13) Acetone	7.31	43	23983	18.05038	ppb	# 76
14) Freon-113	7.50	101	209677	19.72275	ppb	89
15) 1,1-DCE	7.71	96	193323	17.42019	ppb	91
16) t-Butanol	7.80	59	8107	152.38082	ppb	# 93
17) Methyl Acetate	8.21	43	56490	18.73637	ppb	# 86
18) Iodomethane	8.20	142	162809	18.09224	ppb	# 84
19) Acrylonitrile	8.60	53	23414	19.72162	ppb	92
20) Methylene chloride	8.50	84	189403	19.68257	ppb	99
21) Carbon disulfide	8.59	76	167616	18.29653	ppb	100
22) Methyl t-butyl ether (MtBE)	8.94	73	341468	18.93789	ppb	97
23) Trans-1,2-DCE	7.71	96	193323	17.42019	ppb	89
24) Diisopropyl Ether	9.79	45	650045	19.77289	ppb	96
25) 1,1-DCA	9.83	63	424316	18.42022	ppb	95
26) Vinyl Acetate	9.46	43	33304	18.28258	ppb	90
27) Ethyl tert Butyl Ether	10.48	59	549179	19.74741	ppb	92
28) MEK (2-Butanone)	10.49	43	96745	18.58914	ppb	# 89
29) Cis-1,2-DCE	10.85	96	258223	18.02199	ppb	97
30) 2,2-Dichloropropane	10.84	77	396661	18.63962	ppb	94
31) Chloroform	11.14	83	476659	19.54096	ppb	99
32) Bromochloromethane	11.35	128	87599	20.26869	ppb	83
34) 1,1,1-TCA	11.88	97	472342	19.95011	ppb	97
35) Cyclohexane	12.03	56	311907	20.42926	ppb	93
36) 1,1-Dichloropropene	12.14	75	333060	19.57277	ppb	98
37) 2,2,4-Trimethylpentane	12.22	57	537763	21.35021	ppb	94
39) Carbon Tetrachloride	12.33	117	372078	20.57270	ppb	92
40) Tert Amyl Methyl Ether	12.38	73	393706	19.45499	ppb	# 98
41) 1,2-DCA	12.42	62	262003	18.87139	ppb	96
42) Benzene	12.54	78	832901	19.23325	ppb	96
43) TCE	13.57	95	276062	20.13989	ppb	93

(#) = qualifier out of range (m) = manual integration
 1104C10W.D CALLW.M Thu Dec 08 16:56:59 2011

Data File : M:\CHICO\DATA\C111104\1104C10W.D
 Acq On : 4 Nov 11 16:36
 Sample : VOL STD 11-04-11@20ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 2-Pentanone	13.23	43	386206	157.24524	ppb	97
45) 1,2-Dichloropropane	13.80	63	201302	20.37609	ppb #	94
46) Bromodichloromethane	14.15	83	300285	20.18388	ppb	98
47) Methyl Cyclohexane	13.85	83	300797	21.23782	ppb	99
48) Dibromomethane	14.21	93	105461	20.32771	ppb	96
49) 2-Chloroethyl vinyl ether	14.61	63	54793	21.33442	ppb #	90
50) 1-Bromo-2-chloroethane	14.92	63	187103	21.61980	ppb	88
51) Cis-1,3-Dichloropropene	15.04	75	236230	19.39476	ppb	92
52) Toluene	15.67	91	845512	18.40417	ppb	98
53) Trans-1,3-Dichloropropene	15.84	75	185182	20.00611	ppb	95
54) 1,1,2-TCA	16.12	83	84462	18.49835	ppb	93
57) 1,2-EDB	17.36	107	119526	20.84258	ppb	88
58) Tetrachloroethene	16.83	164	238177	17.42677	ppb	94
59) 1-Chlorohexane	17.74	91	287922	19.69578	ppb	99
60) 1,1,1,2-Tetrachloroethane	18.20	131	215585	21.28957	ppb	96
61) m&p-Xylene	18.39	106	725284	37.07772	ppb	99
62) o-Xylene	19.14	106	369712	19.83275	ppb	97
63) Styrene	19.15	104	577362	19.60597	ppb	97
65) 2-Hexanone	16.15	43	42472	19.04388	ppb	77
66) 1,3-Dichloropropane	16.53	76	191805	20.40582	ppb	94
67) Dibromochloromethane	17.01	129	164277	20.51760	ppb	86
68) Chlorobenzene	18.14	112	562549	19.22340	ppb	94
69) Ethylbenzene	18.25	91	965000	18.88314	ppb	91
70) Bromoform	19.68	173	81528	20.18417	ppb	83
72) MIBK (methyl isobutyl keto	14.70	43	68857	22.46635	ppb	85
73) Isopropylbenzene	19.77	105	1032484	19.45229	ppb	95
74) 1,1,2,2-Tetrachloroethane	19.93	83	88491	19.60386	ppb #	87
75) 1,2,3-Trichloropropane	20.19	110	11105	20.42107	ppb	86
76) t-1,4-Dichloro-2-Butene	20.27	53	23197	20.75321	ppb #	92
77) Bromobenzene	20.51	156	217177	18.62965	ppb	87
78) n-Propylbenzene	20.48	91	1129933	18.70200	ppb	99
79) 4-Ethyltoluene	20.67	105	804794	19.04246	ppb	98
80) 2-Chlorotoluene	20.78	91	761688	18.87304	ppb	95
81) 1,3,5-Trimethylbenzene	20.75	105	848428	19.25382	ppb	99
82) 4-Chlorotoluene	20.86	91	637571	17.98128	ppb	99
83) Tert-Butylbenzene	21.40	119	901333	19.25954	ppb	98
84) 1,2,4-Trimethylbenzene	21.46	105	842813	19.47124	ppb	92
85) Sec-Butylbenzene	21.80	105	1113421	19.68771	ppb	98
86) p-Isopropyltoluene	22.03	119	951945	19.14453	ppb	98
87) Benzyl Chloride	22.46	91	174943	20.76424	ppb	96
88) 1,3-DCB	22.16	146	452920	19.77506	ppb	95
89) 1,4-DCB	22.34	146	424749	19.79511	ppb	97
90) Hexachloroethane	23.63	117	187585	20.38843	ppb	88
91) n-Butylbenzene	22.73	91	771350	18.42503	ppb	95
92) 1,2-DCB	22.96	146	365396	19.26782	ppb	96
93) 1,2-Dibromo-3-chloropropan	24.18	155	14686	21.35450	ppb #	51
94) 1,2,4-Trichlorobenzene	25.64	145	35456	22.12940	ppb	83
95) Hexachlorobutadiene	25.90	223	146997	20.34366	ppb	97
96) Naphthalene	25.99	128	391636	19.39768	ppb	97
97) 1,2,3-Trichlorobenzene	26.38	180	96168	20.13990	ppb	95

(#) = qualifier out of range (m) = manual integration
 1104C10W.D CALLW.M Thu Dec 08 16:57:00 2011

Quantitation Report

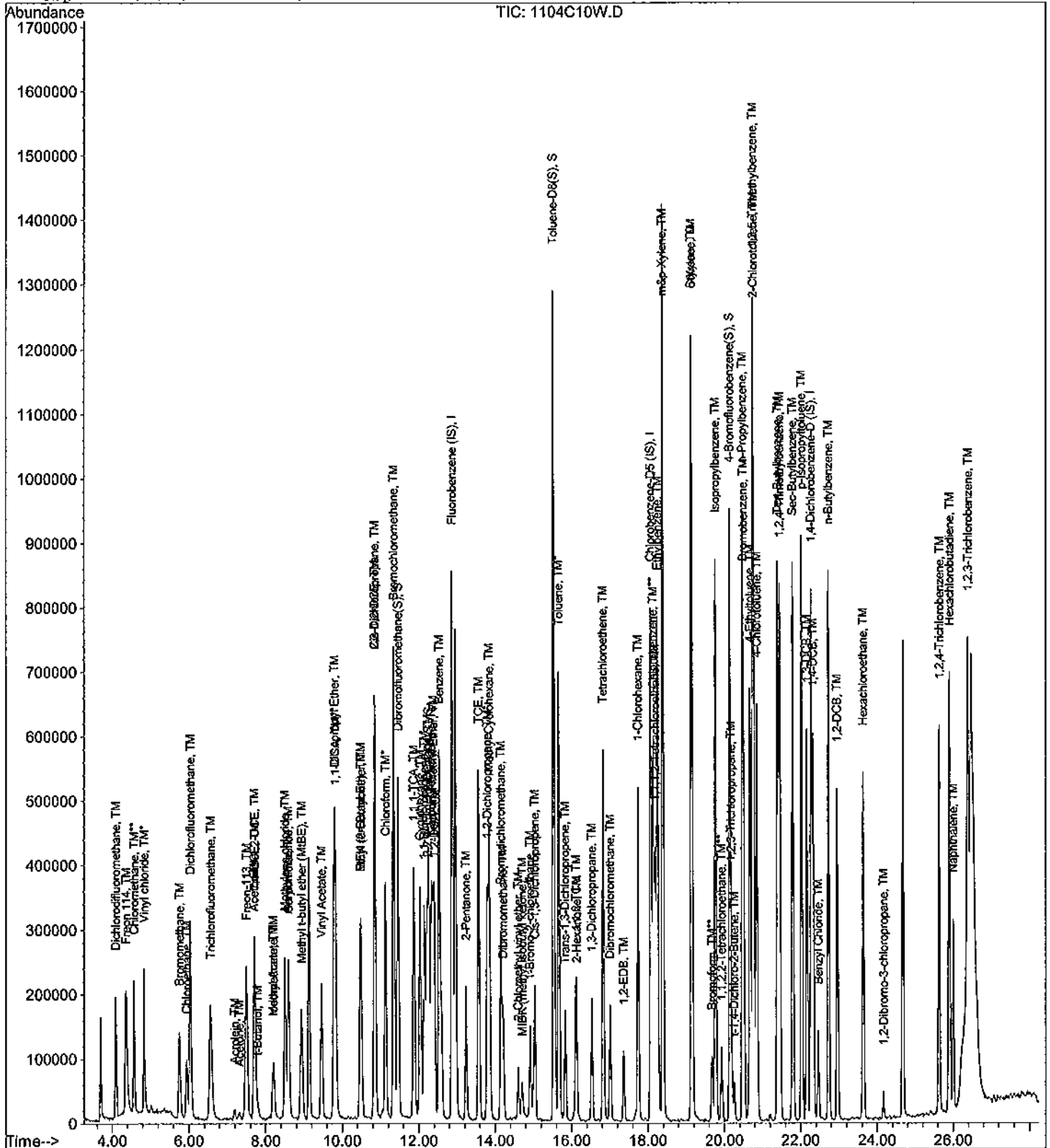
Data File : M:\CHICO\DATA\C111104\1104C10W.D
Acq On : 4 Nov 11 16:36
Sample : VOL STD 11-04-11@20ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 8 16:00 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111104\1104C11W.D Vial: 1
 Acq On : 4 Nov 11 17:19 Operator: STC
 Sample : VOL STD 11-04-11@40ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	12.88	96	376384	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.07	117	260992	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.28	152	143232	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.45	111	1254684	95.85659	ppb	0.00
Spiked Amount	21.097		Recovery	= 454.357%		
38) 1,2-DCA-D4(S)	12.27	65	1002700	87.53416	ppb	0.00
Spiked Amount	21.225		Recovery	= 412.405%		
56) Toluene-D8(S)	15.54	98	3411003	88.71055	ppb	0.00
Spiked Amount	25.808		Recovery	= 343.731%		
64) 4-Bromofluorobenzene(S)	20.15	95	1235737	91.10758	ppb	0.00
Spiked Amount	25.459		Recovery	= 357.855%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	4.09	85	605060	48.02329	ppb	99
3) Freon 114	4.35	85	460858	44.29737	ppb	93
4) Chloromethane	4.58	50	612547	37.57756	ppb	93
5) Vinyl chloride	4.83	62	532243	40.51183	ppb	98
7) Bromomethane	5.75	94	293365	37.26920	ppb	100
8) Chloroethane	5.94	64	99216	45.44293	ppb	92
9) Dichlorofluoromethane	6.04	67	1086636	40.15139	ppb	97
10) Trichlorofluoromethane	6.55	101	769775	42.43354	ppb	85
11) Acetonitrile	7.68	41	63954	194.17163	ug/l	100
12) Acrolein	7.20	56	30557	191.74077	ppb	96
13) Acetone	7.30	43	50039	40.09443	ppb	# 65
14) Freon-113	7.49	101	464944	46.55967	ppb	91
15) 1,1-DCE	7.71	96	406405	38.98709	ppb	94
16) t-Butanol	7.82	59	8641	172.91260	ppb	# 91
17) Methyl Acetate	8.22	43	111923	40.16991	ppb	96
18) Iodomethane	8.19	142	348877	38.35087	ppb	92
19) Acrylonitrile	8.60	53	44097	39.54290	ppb	94
20) Methylene chloride	8.50	84	361708	42.32780	ppb	97
21) Carbon disulfide	8.59	76	348352	40.48219	ppb	99
22) Methyl t-butyl ether (MtBE)	8.93	73	684249	40.40065	ppb	98
23) Trans-1,2-DCE	7.71	96	406405	38.98709	ppb	92
24) Diisopropyl Ether	9.79	45	1211492	39.23194	ppb	98
25) 1,1-DCA	9.83	63	812380	37.54544	ppb	94
26) Vinyl Acetate	9.46	43	64963	37.96642	ppb	93
27) Ethyl tert Butyl Ether	10.49	59	1034351	39.59649	ppb	100
28) MEK (2-Butanone)	10.47	43	182834	37.40074	ppb	95
29) Cis-1,2-DCE	10.86	96	499248	37.09510	ppb	90
30) 2,2-Dichloropropane	10.85	77	742249	37.13297	ppb	95
31) Chloroform	11.13	83	930213	40.59879	ppb	100
32) Bromochloromethane	11.36	128	156949	38.66140	ppb	84
34) 1,1,1-TCA	11.87	97	848866	38.16985	ppb	97
35) Cyclohexane	12.04	56	529850	36.94648	ppb	90
36) 1,1-Dichloropropene	12.14	75	569170	35.60938	ppb	94
37) 2,2,4-Trimethylpentane	12.21	57	870992	36.88147	ppb	98
39) Carbon Tetrachloride	12.34	117	694484	40.88011	ppb	96
40) Tert Amyl Methyl Ether	12.38	73	633811	33.34351	ppb	99
41) 1,2-DCA	12.41	62	453448	34.77103	ppb	97
42) Benzene	12.54	78	1396040	34.32020	ppb	97
43) TCE	13.57	95	492796	38.27456	ppb	96

(#) = qualifier out of range (m) = manual integration
 1104C11W.D CALLW.M Thu Dec 08 16:57:05 2011

Data File : M:\CHICO\DATA\C111104\1104C11W.D
 Acq On : 4 Nov 11 17:19
 Sample : VOL STD 11-04-11@40ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 2-Pentanone	13.23	43	395797	171.56295	ppb	98
45) 1,2-Dichloropropane	13.80	63	353869	38.13360	ppb	98
46) Bromodichloromethane	14.15	83	556707	39.83734	ppb	96
47) Methyl Cyclohexane	13.85	83	529745	39.81951	ppb	99
48) Dibromomethane	14.20	93	188591	38.69993	ppb	97
49) 2-Chloroethyl vinyl ether	14.61	63	95435	39.10879	ppb	# 82
50) 1-Bromo-2-chloroethane	14.92	63	307506	37.82832	ppb	87
51) Cis-1,3-Dichloropropene	15.04	75	441921	38.62661	ppb	87
52) Toluene	15.67	91	1539538	35.67626	ppb	97
53) Trans-1,3-Dichloropropene	15.84	75	352858	40.58413	ppb	99
54) 1,1,2-TCA	16.12	83	163761	38.18340	ppb	94
57) 1,2-EDB	17.37	107	220606	39.74208	ppb	85
58) Tetrachloroethene	16.83	164	446353	33.73959	ppb	95
59) 1-Chlorohexane	17.74	91	547442	38.68840	ppb	99
60) 1,1,1,2-Tetrachloroethane	18.20	131	411716	42.00398	ppb	94
61) m&p-Xylene	18.39	106	1420921	75.04454	ppb	99
62) o-Xylene	19.14	106	705769	39.11345	ppb	100
63) Styrene	19.16	104	1092027	38.31049	ppb	95
65) 2-Hexanone	16.14	43	79341	36.75315	ppb	82
66) 1,3-Dichloropropane	16.53	76	350477	38.52103	ppb	94
67) Dibromochloromethane	17.01	129	333179	42.99042	ppb	90
68) Chlorobenzene	18.14	112	1044892	36.88804	ppb	97
69) Ethylbenzene	18.26	91	1844976	37.29768	ppb	96
70) Bromoform	19.68	173	161724	39.84973	ppb	# 77
72) MIBK (methyl isobutyl keto)	14.71	43	117182	39.13908	ppb	82
73) Isopropylbenzene	19.77	105	1927340	36.03580	ppb	95
74) 1,1,1,2-Tetrachloroethane	19.93	83	167829	36.89758	ppb	# 76
75) 1,2,3-Trichloropropane	20.19	110	20672	39.00837	ppb	83
76) t-1,4-Dichloro-2-Butene	20.26	53	46026	41.21119	ppb	77
77) Bromobenzene	20.51	156	428125	36.44601	ppb	97
78) n-Propylbenzene	20.48	91	2145819	35.24658	ppb	99
79) 4-Ethyltoluene	20.67	105	1540904	36.18282	ppb	95
80) 2-Chlorotoluene	20.77	91	1384392	34.04178	ppb	96
81) 1,3,5-Trimethylbenzene	20.75	105	1575661	35.48568	ppb	97
82) 4-Chlorotoluene	20.86	91	1280059	35.82701	ppb	98
83) Tert-Butylbenzene	21.40	119	1729822	36.68179	ppb	95
84) 1,2,4-Trimethylbenzene	21.46	105	1570551	36.00832	ppb	96
85) Sec-Butylbenzene	21.80	105	2069310	36.31198	ppb	100
86) p-Isopropyltoluene	22.03	119	1766966	35.26547	ppb	99
87) Benzyl Chloride	22.46	91	344931	40.62939	ppb	# 91
88) 1,3-DCB	22.16	146	845275	36.62544	ppb	94
89) 1,4-DCB	22.33	146	812894	37.59655	ppb	99
90) Hexachloroethane	23.63	117	377515	39.84876	ppb	90
91) n-Butylbenzene	22.73	91	1482665	35.14699	ppb	99
92) 1,2-DCB	22.96	146	714195	37.37439	ppb	96
93) 1,2-Dibromo-3-chloropropan	24.18	155	29222	42.16812	ppb	# 61
94) 1,2,4-Trichlorobenzene	25.63	145	62072	39.69232	ppb	84
95) Hexachlorobutadiene	25.90	223	284075	39.35271	ppb	96
96) Naphthalene	25.99	128	709385	34.86885	ppb	100
97) 1,2,3-Trichlorobenzene	26.37	180	184256	39.35224	ppb	96

Quantitation Report

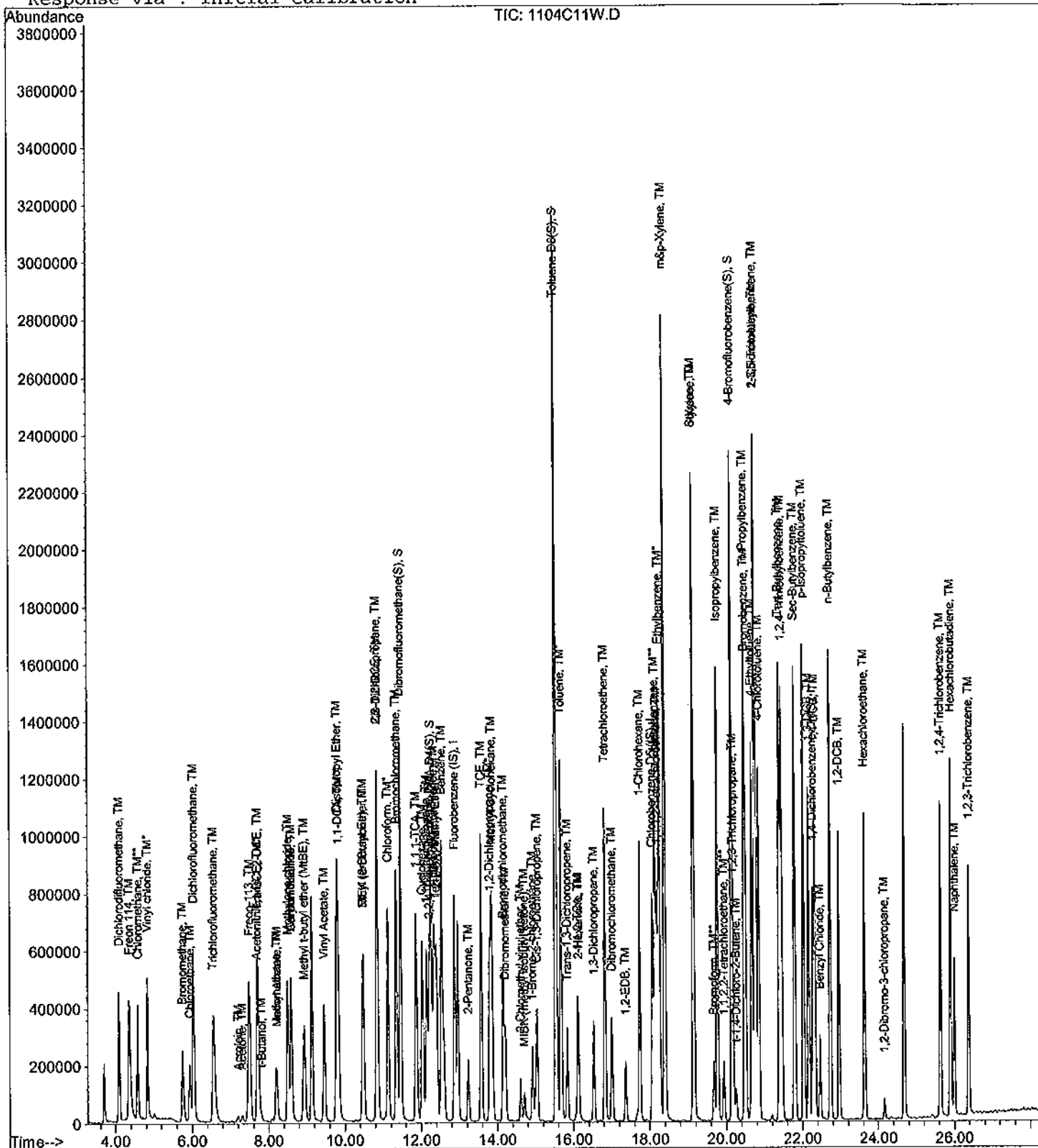
Data File : M:\CHICO\DATA\C111104\1104C11W.D
Acq On : 4 Nov 11 17:19
Sample : VOL STD 11-04-11@40ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 8 16:00 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111104\1104C12W.D Vial: 1
 Acq On : 4 Nov 11 18:02 Operator: STC
 Sample : VOL STD 11-04-11@100ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.87	96	387584	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.08	117	270976	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.27	152	152832	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.46	111	1488258	110.41578	ppb	0.00
Spiked Amount	21.097		Recovery	= 523.366%		
38) 1,2-DCA-D4(S)	12.26	65	1305852	110.70464	ppb	0.00
Spiked Amount	21.225		Recovery	= 521.572%		
56) Toluene-D8(S)	15.54	98	4425716	110.85954	ppb	0.00
Spiked Amount	25.808		Recovery	= 429.552%		
64) 4-Bromofluorobenzene(S)	20.15	95	1555073	110.42709	ppb	0.00
Spiked Amount	25.459		Recovery	= 433.737%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	4.10	85	1398001	107.75223	ppb	98
3) Freon 114	4.36	85	1127717	105.26312	ppb	91
4) Chloromethane	4.57	50	1586844	94.53416	ppb	94
5) Vinyl chloride	4.82	62	1214149	89.74479	ppb	100
7) Bromomethane	5.75	94	818509	100.97889	ppb	98
8) Chloroethane	5.94	64	211456	94.05241	ppb	# 83
9) Dichlorofluoromethane	6.03	67	2568939	92.17977	ppb	99
10) Trichlorofluoromethane	6.56	101	1897913	101.59844	ppb	82
11) Acetonitrile	7.69	41	58460	172.36226	ug/l	100
12) Acrolein	7.20	56	34311	209.07516	ppb	95
13) Acetone	7.31	43	107600	83.72459	ppb	# 69
14) Freon-113	7.49	101	1083350	105.35213	ppb	90
15) 1,1-DCE	7.72	96	954098	88.88329	ppb	99
16) t-Butanol	7.72	59	18592	361.28844	ppb	# 80
17) Methyl Acetate	8.22	43	284919	100.16575	ppb	91
18) Iodomethane	8.20	142	984016	101.07620	ppb	90
19) Acrylonitrile	8.60	53	104316	90.83971	ppb	# 69
20) Methylene chloride	8.51	84	848586	99.29266	ppb	93
21) Carbon disulfide	8.60	76	796352	89.87029	ppb	98
22) Methyl t-butyl ether (MtBE)	8.93	73	1646449	94.40342	ppb	99
23) Trans-1,2-DCE	7.72	96	954098	88.88329	ppb	96
24) Diisopropyl Ether	9.79	45	2920305	91.83596	ppb	97
25) 1,1-DCA	9.82	63	1929536	86.59965	ppb	95
26) Vinyl Acetate	9.46	43	154496	87.68314	ppb	90
27) Ethyl tert Butyl Ether	10.48	59	2421698	90.02727	ppb	97
28) MEK (2-Butanone)	10.47	43	422294	83.88869	ppb	93
29) Cis-1,2-DCE	10.85	96	1132038	81.68204	ppb	92
30) 2,2-Dichloropropane	10.84	77	1733161	84.20042	ppb	91
31) Chloroform	11.13	83	2114438	89.61710	ppb	98
32) Bromochloromethane	11.35	128	352484	84.31866	ppb	83
34) 1,1,1-TCA	11.88	97	2277083	99.43185	ppb	99
35) Cyclohexane	12.03	56	1456353	98.61707	ppb	92
36) 1,1-Dichloropropene	12.15	75	1525242	92.66729	ppb	93
37) 2,2,4-Trimethylpentane	12.21	57	2450244	100.91582	ppb	98
39) Carbon Tetrachloride	12.33	117	1928236	110.22377	ppb	92
40) Tert Amyl Methyl Ether	12.38	73	1751916	89.50147	ppb	98
41) 1,2-DCA	12.42	62	1215844	90.53850	ppb	97
42) Benzene	12.53	78	3877684	92.57413	ppb	99
43) TCE	13.57	95	1298818	97.96179	ppb	94

(#) = qualifier out of range (m) = manual integration
 1104C12W.D CALLW.M Thu Dec 08 16:57:12 2011

Data File : M:\CHICO\DATA\C111104\1104C12W.D Vial: 1
 Acq On : 4 Nov 11 18:02 Operator: STC
 Sample : VOL STD 11-04-11@100ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:00 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 2-Pentanone	13.23	43	480188	202.12854	ppb	97
45) 1,2-Dichloropropane	13.80	63	913679	95.61461	ppb	100
46) Bromodichloromethane	14.15	83	1431779	99.49584	ppb	95
47) Methyl Cyclohexane	13.85	83	1439261	105.05916	ppb	97
48) Dibromomethane	14.21	93	482479	96.14637	ppb	98
49) 2-Chloroethyl vinyl ether	14.60	63	264911	100.08249	ppb #	86
50) 1-Bromo-2-chloroethane	14.92	63	806701	96.36990	ppb	90
51) Cis-1,3-Dichloropropene	15.04	75	1136888	96.49948	ppb #	84
52) Toluene	15.67	91	4019173	90.44633	ppb	98
53) Trans-1,3-Dichloropropene	15.84	75	907198	101.32666	ppb	99
54) 1,1,2-TCA	16.11	83	405197	91.74780	ppb	96
57) 1,2-EDB	17.37	107	567927	98.54217	ppb #	93
58) Tetrachloroethene	16.83	164	1145494	83.39701	ppb	92
59) 1-Chlorohexane	17.74	91	1458222	99.25734	ppb	99
60) 1,1,1,2-Tetrachloroethane	18.19	131	1064914	104.64141	ppb	99
61) m&p-Xylene	18.40	106	3793857	192.98630	ppb	99
62) o-Xylene	19.14	106	1825474	97.43962	ppb	96
63) Styrene	19.16	104	2822183	95.35991	ppb	91
65) 2-Hexanone	16.14	43	191388	85.39019	ppb	78
66) 1,3-Dichloropropane	16.53	76	877537	92.89668	ppb	93
67) Dibromochloromethane	17.01	129	882767	109.70755	ppb	90
68) Chlorobenzene	18.14	112	2747264	93.41378	ppb	97
69) Ethylbenzene	18.25	91	4848703	94.40892	ppb	95
70) Bromoform	19.67	173	460692	100.01282	ppb	91
72) MIBK (methyl isobutyl keto	14.71	43	310673	99.82496	ppb	84
73) Isopropylbenzene	19.77	105	4901130	85.88114	ppb	96
74) 1,1,2,2-Tetrachloroethane	19.93	83	414354	85.37451	ppb #	82
75) 1,2,3-Trichloropropane	20.19	110	55136	100.12191	ppb	98
76) t-1,4-Dichloro-2-Butene	20.25	53	117801	99.35278	ppb #	77
77) Bromobenzene	20.51	156	1085585	86.61018	ppb	93
78) n-Propylbenzene	20.48	91	5471690	84.23084	ppb	99
79) 4-Ethyltoluene	20.68	105	4084011	89.87511	ppb	93
80) 2-Chlorotoluene	20.78	91	3618605	83.39117	ppb	92
81) 1,3,5-Trimethylbenzene	20.76	105	3929624	82.94058	ppb	97
82) 4-Chlorotoluene	20.85	91	3136042	82.25991	ppb	95
83) Tert-Butylbenzene	21.39	119	4332803	86.10807	ppb	96
84) 1,2,4-Trimethylbenzene	21.45	105	4015207	86.27491	ppb	92
85) Sec-Butylbenzene	21.79	105	5428141	89.26912	ppb	100
86) p-Isopropyltoluene	22.03	119	4726869	88.41394	ppb	98
87) Benzyl Chloride	22.46	91	924796	102.08918	ppb	93
88) 1,3-DCB	22.17	146	2259784	91.76509	ppb	95
89) 1,4-DCB	22.33	146	2224628	96.42667	ppb	98
90) Hexachloroethane	23.63	117	1044668	100.01050	ppb	90
91) n-Butylbenzene	22.73	91	3981630	88.45691	ppb	99
92) 1,2-DCB	22.96	146	1944735	95.37695	ppb	98
93) 1,2-Dibromo-3-chloropropan	24.17	155	81757	110.56688	ppb	82
94) 1,2,4-Trichlorobenzene	25.63	145	161984	99.51652	ppb	80
95) Hexachlorobutadiene	25.89	223	777993	100.07622	ppb	97
96) Naphthalene	26.00	128	1916255	88.27439	ppb	99
97) 1,2,3-Trichlorobenzene	26.38	180	472249	100.09338	ppb	98

(#) = qualifier out of range (m) = manual integration
 1104C12W.D CALLW.M Thu Dec 08 16:57:13 2011

Quantitation Report

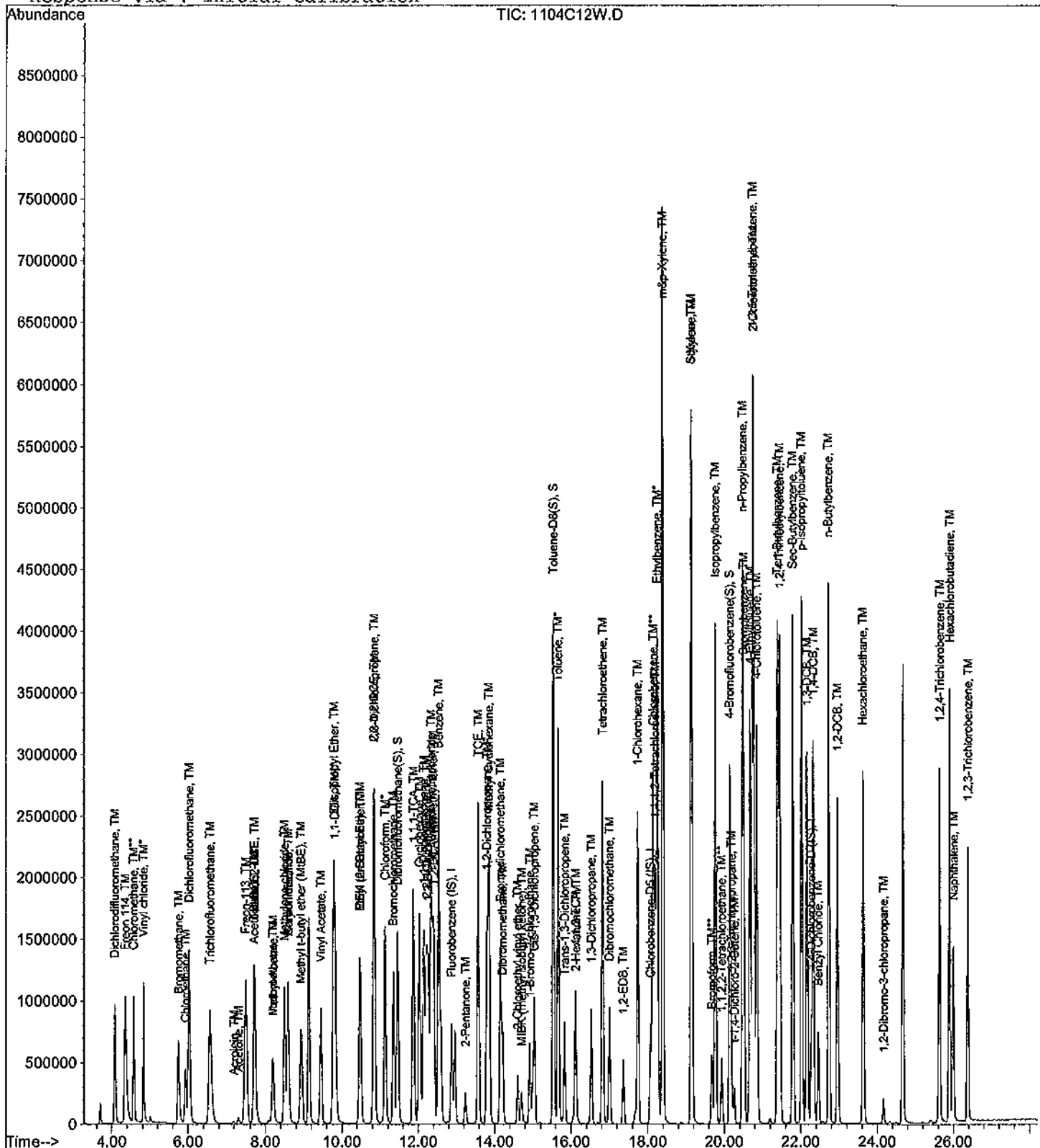
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Acq On : 4 Nov 11 18:02
Sample : VOL STD 11-04-11@100ug/L
Misc : Water 10mLw/ IS:10-30-11

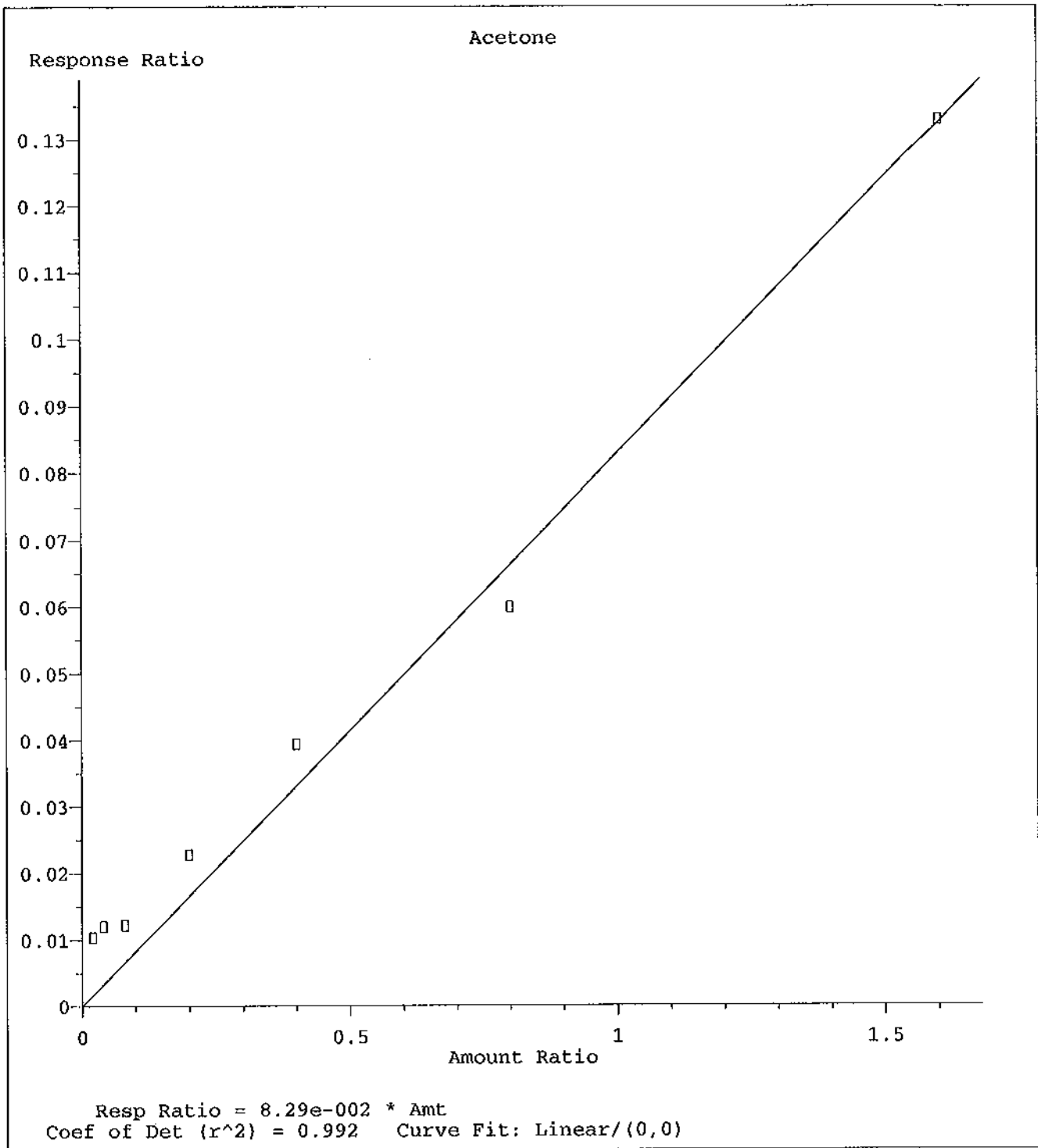
Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 8 16:00 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration

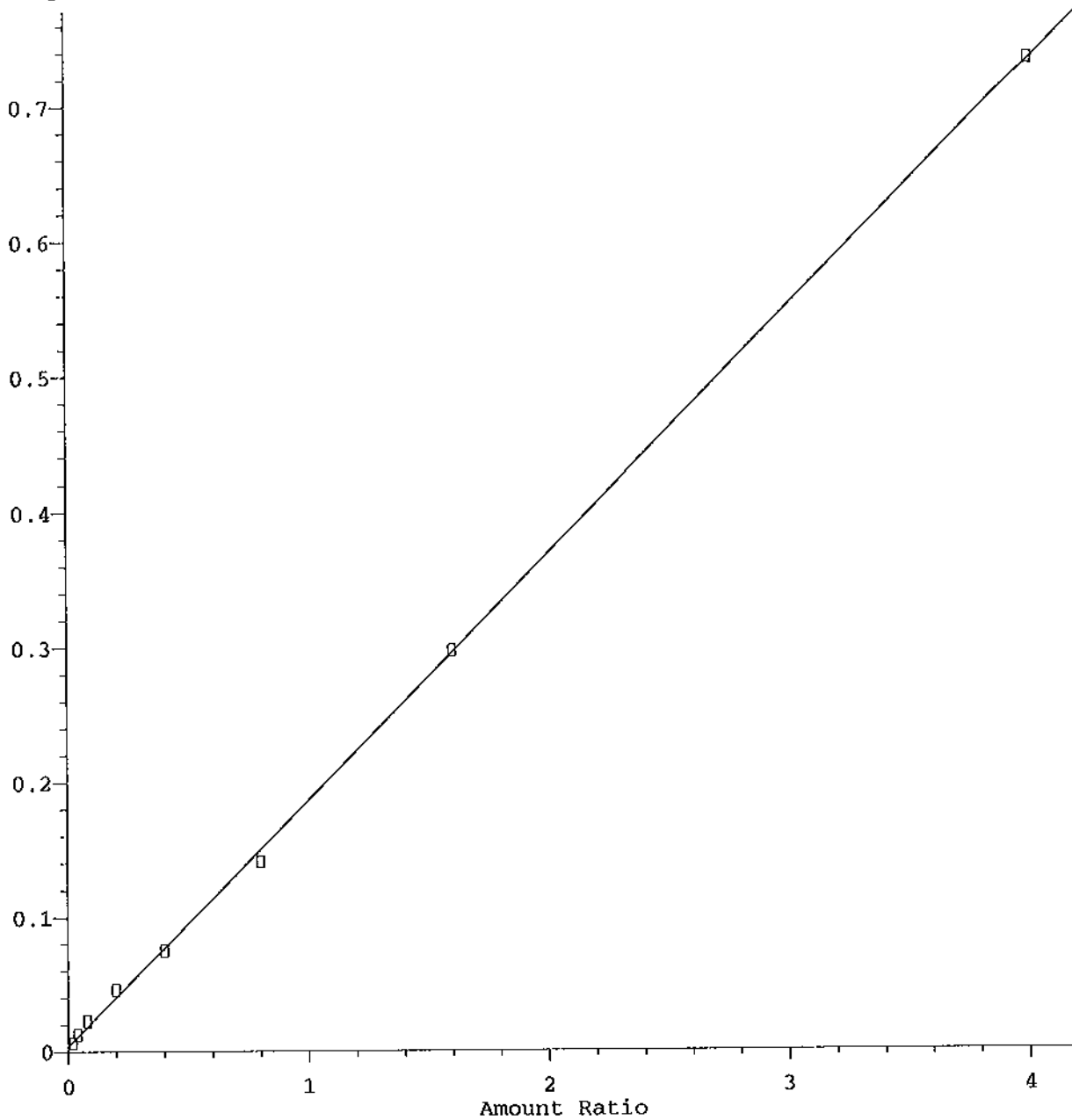




Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011

Methyl Acetate

Response Ratio

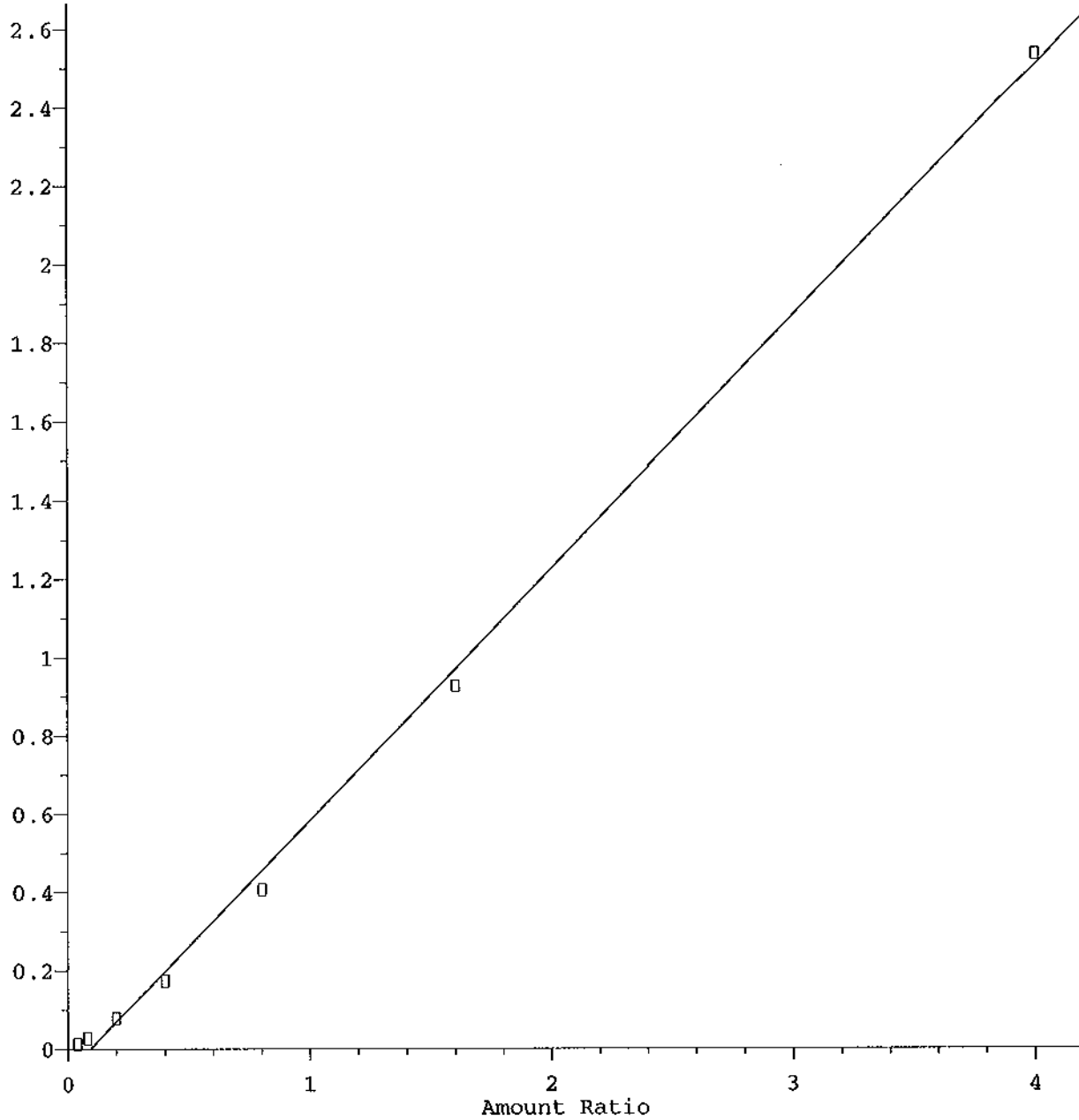


Resp Ratio = 1.82e-001 * Amt + 4.27e-003
Coef of Det (r^2) = 1.000 Curve Fit: Linear

Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011

Iodomethane

Response Ratio

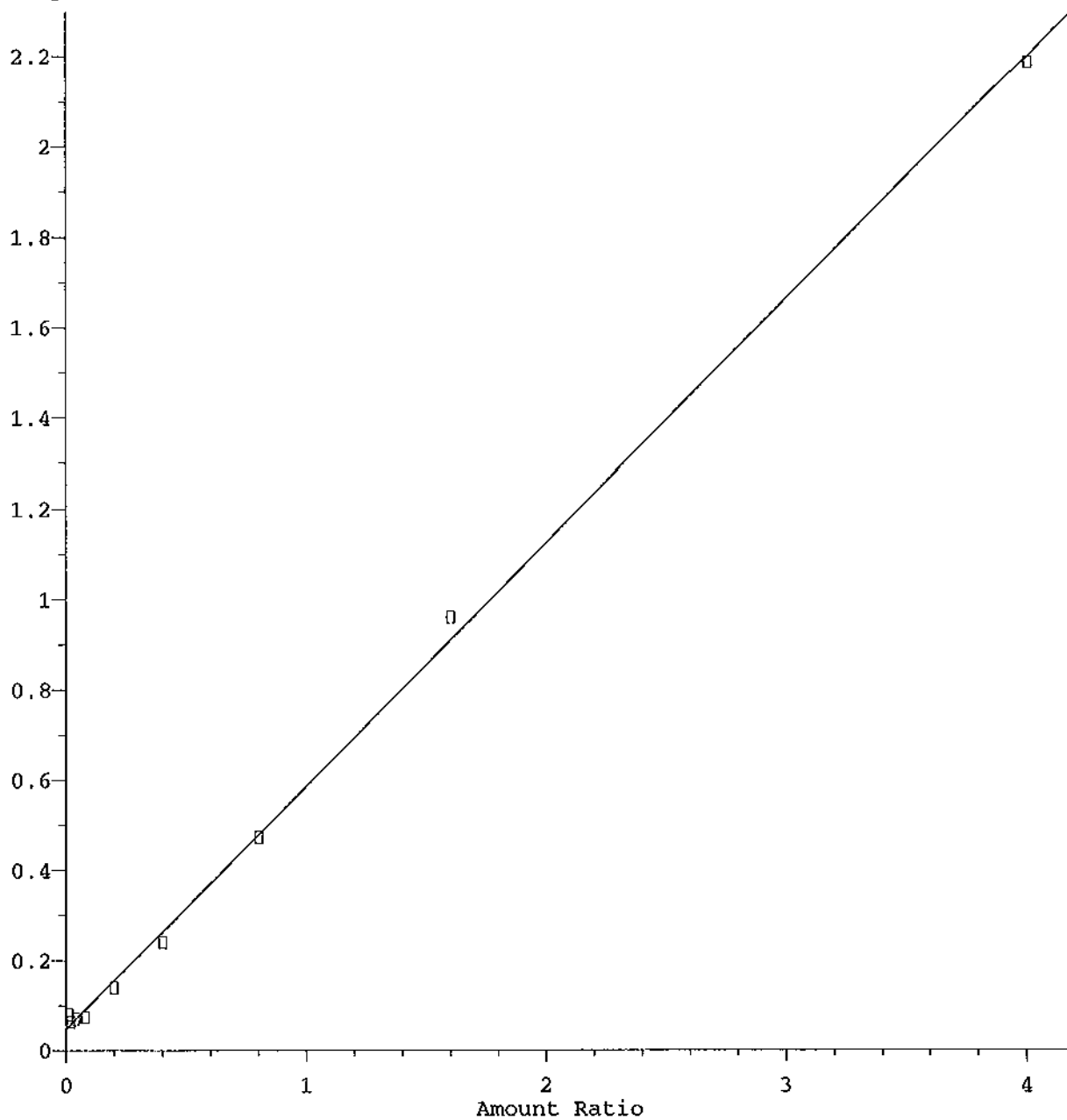


Resp Ratio = 6.42e-001 * Amt - 5.86e-002
Coef of Det (r^2) = 0.998 Curve Fit: Linear

Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011

Methylene chloride

Response Ratio

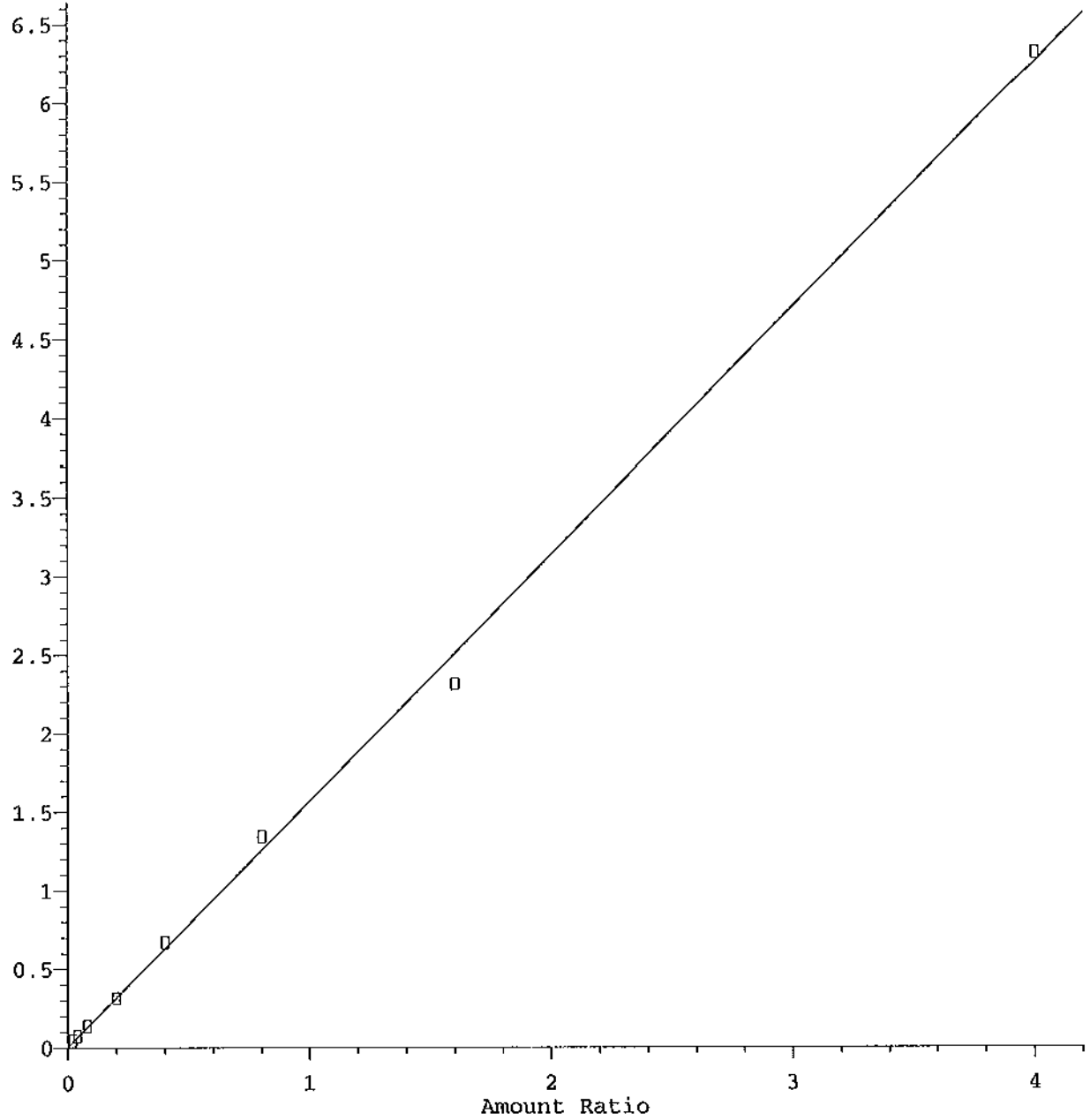


Resp Ratio = 5.39e-001 * Amt + 4.82e-002
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011

2,2,4-Trimethylpentane

Response Ratio

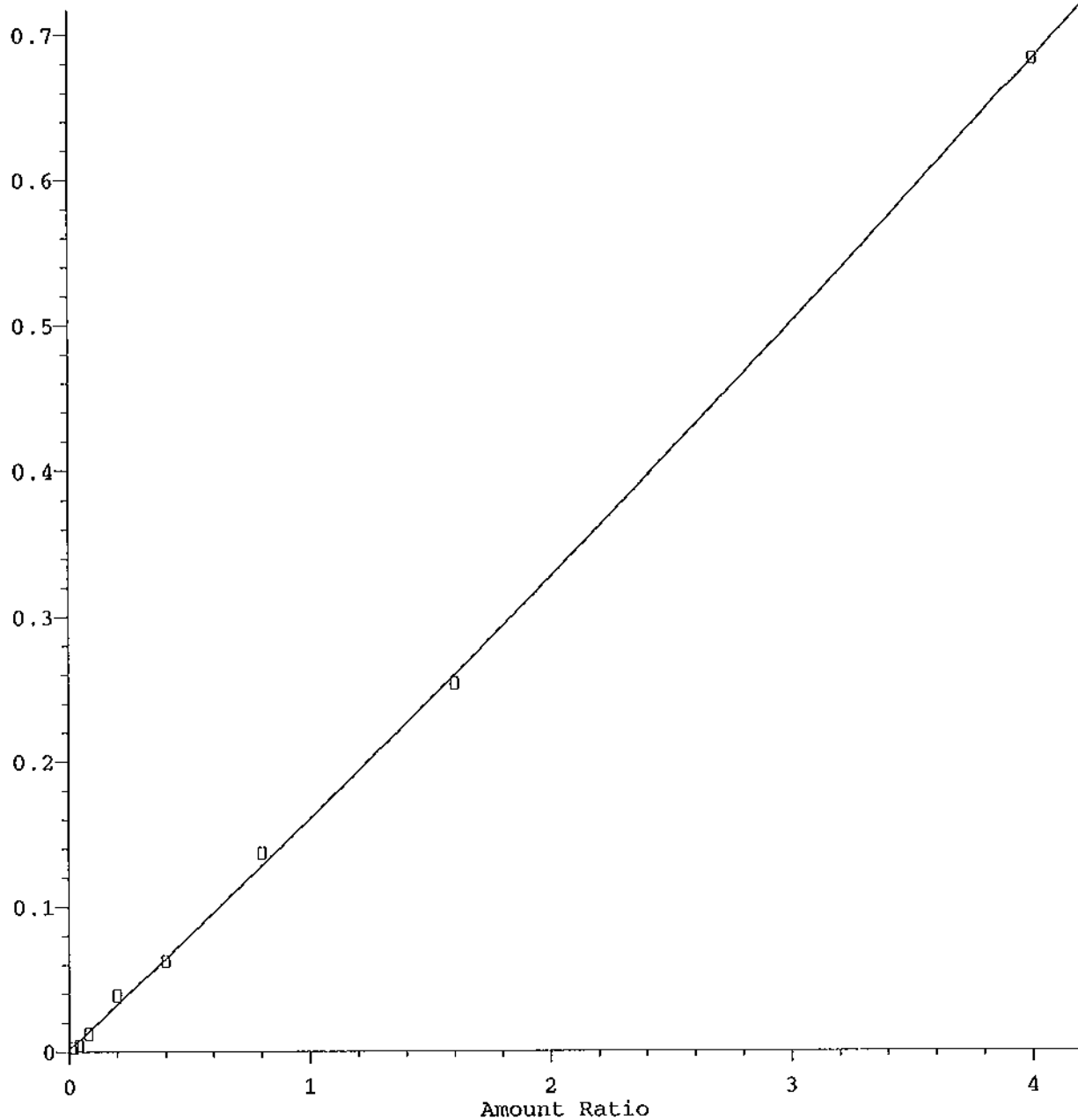


Resp Ratio = 1.56e+000 * Amt + 5.79e-003
Coef of Det (r^2) = 0.998 Curve Fit: Linear

Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011

2-Chloroethyl vinyl ether

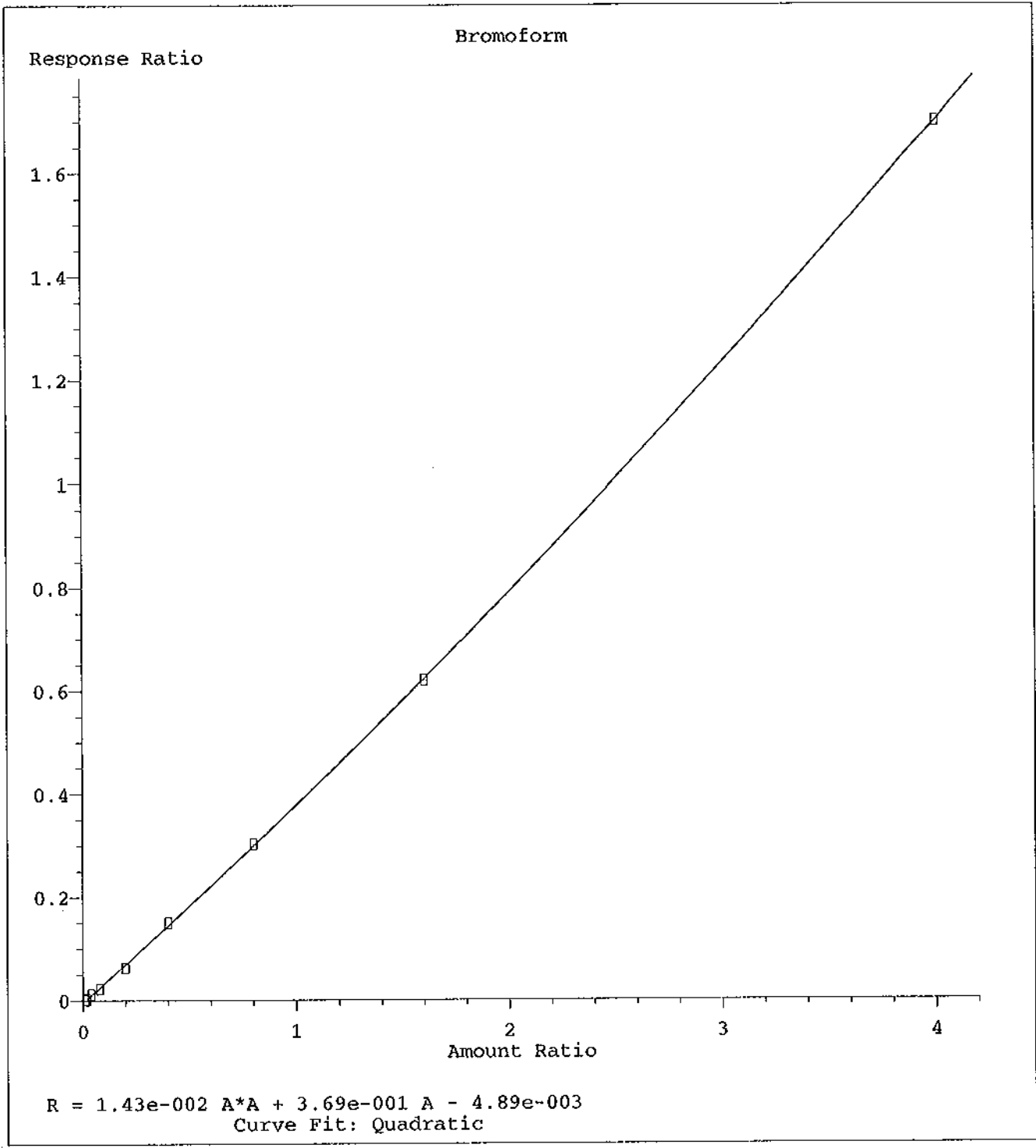
Response Ratio



$$R = 3.80e-003 A^2 + 1.55e-001 A + 1.60e-003$$

Curve Fit: Quadratic

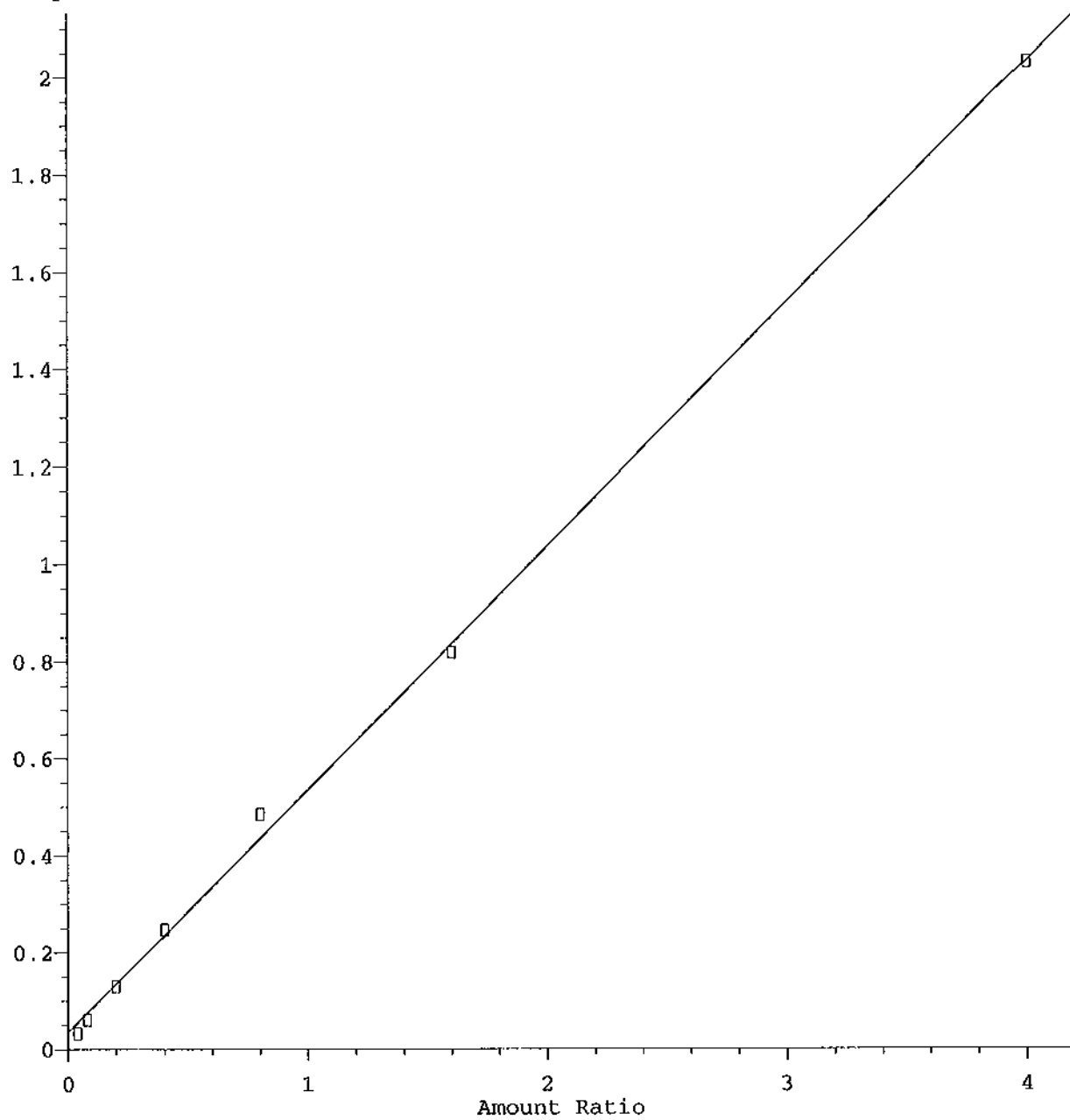
Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011



Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011

MIBK (methyl isobutyl ketone)

Response Ratio

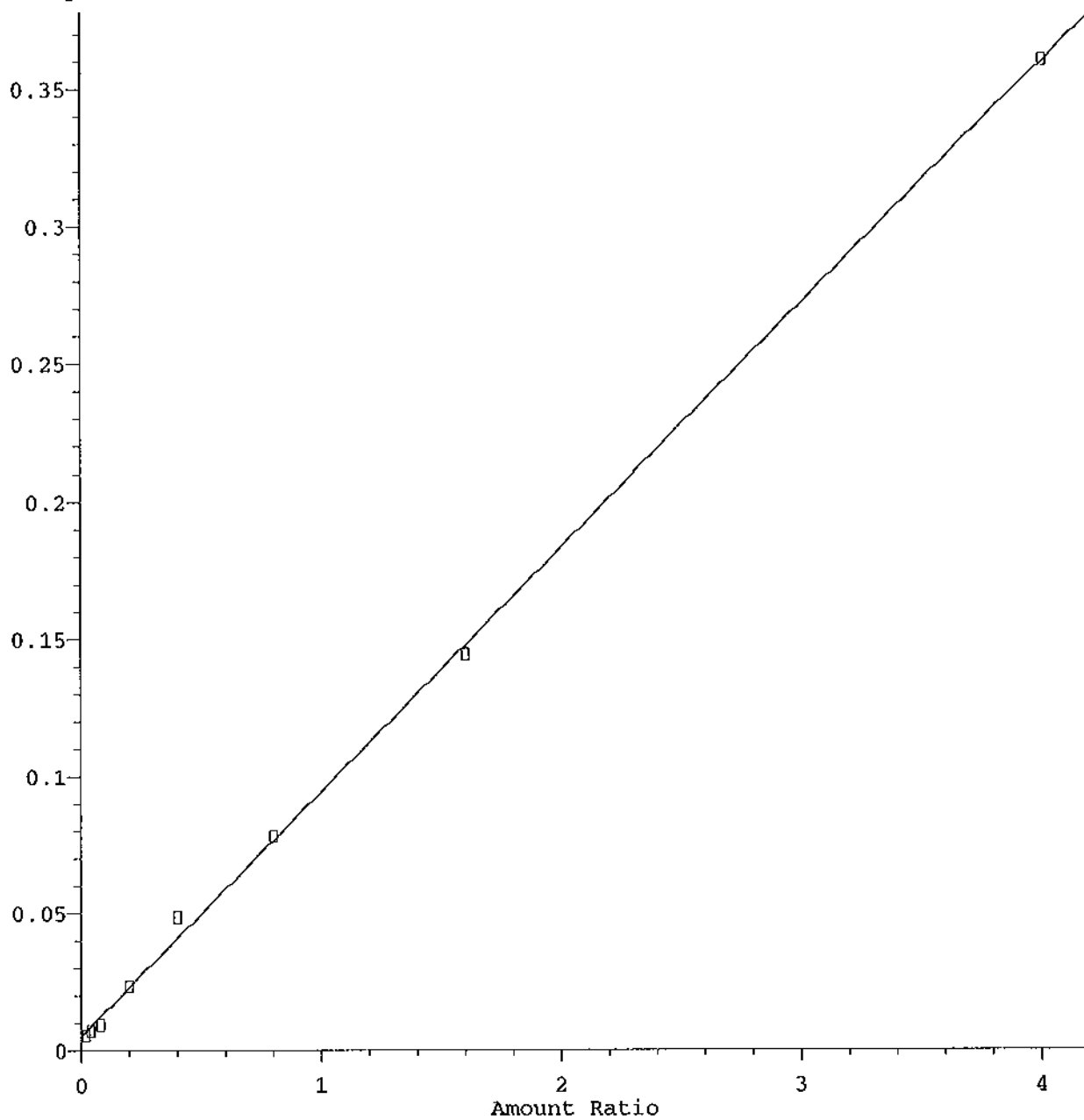


Resp Ratio = 5.00e-001 * Amt + 3.47e-002
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011

1,2,3-Trichloropropane

Response Ratio

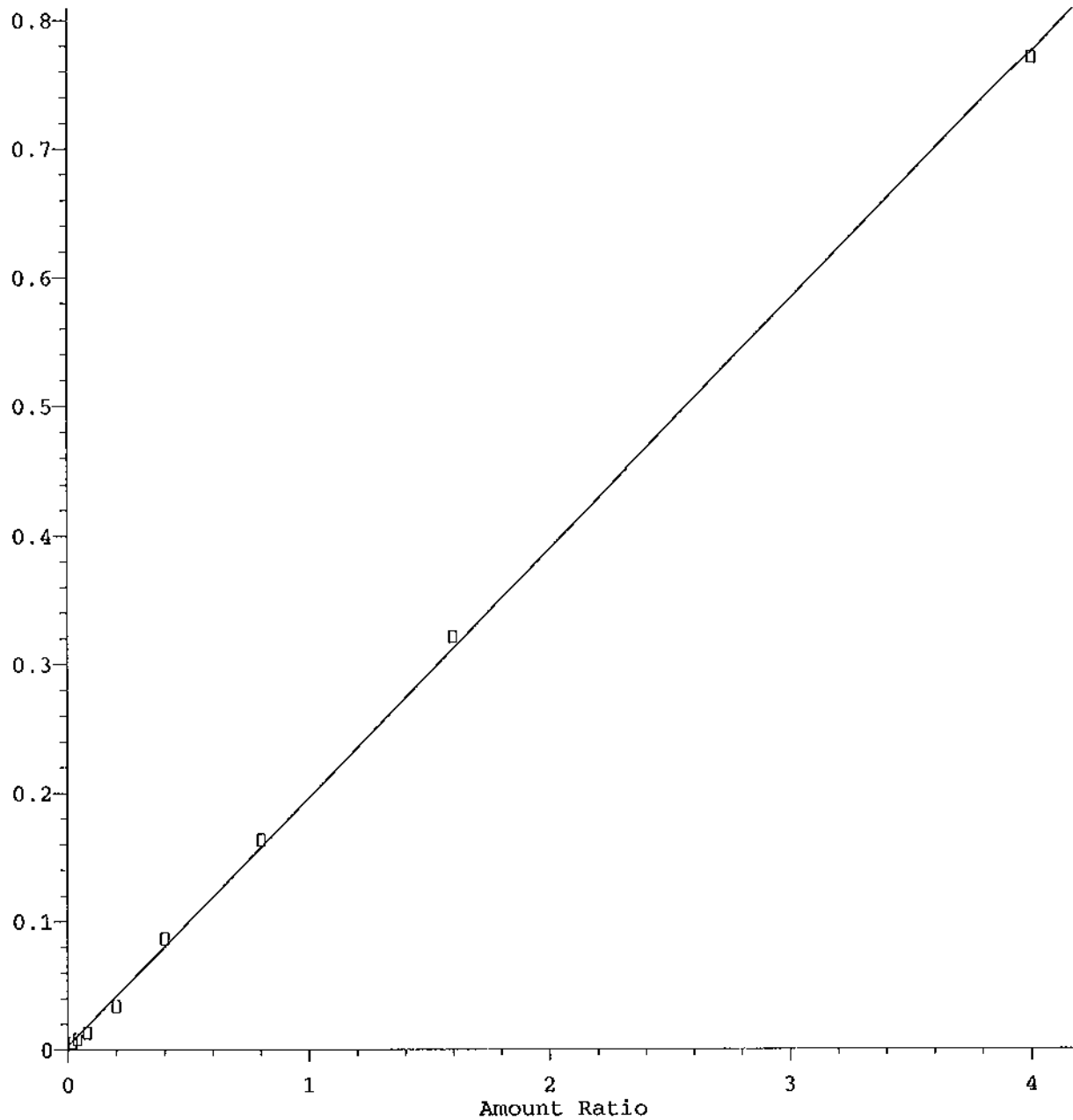


$R = -1.57e-004 A^2 + 8.94e-002 A + 5.19e-003$
Curve Fit: Quadratic

Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011

t-1,4-Dichloro-2-Butene

Response Ratio

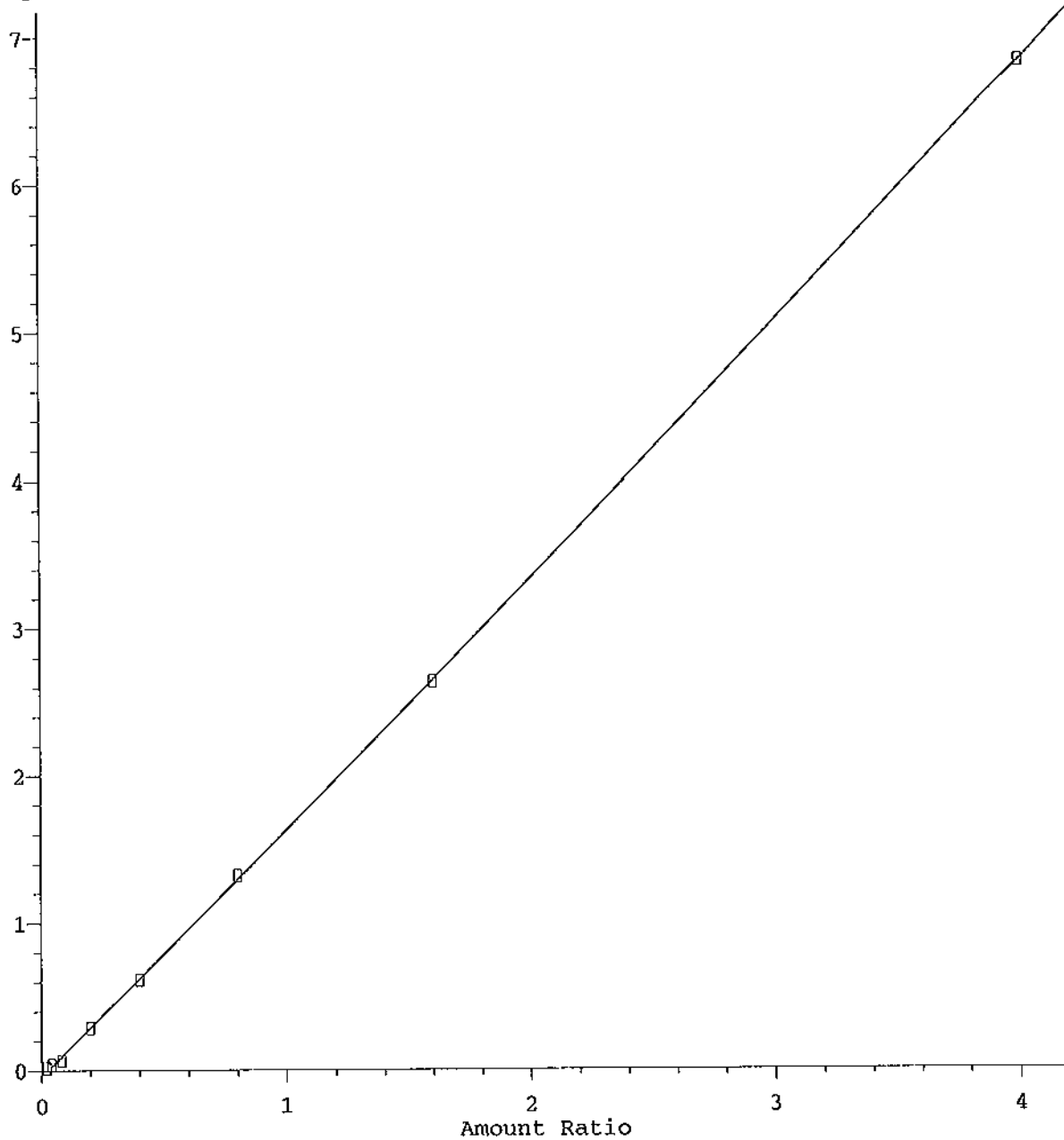


Resp Ratio = 1.93e-001 * Amt + 2.77e-003
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011

Hexachloroethane

Response Ratio

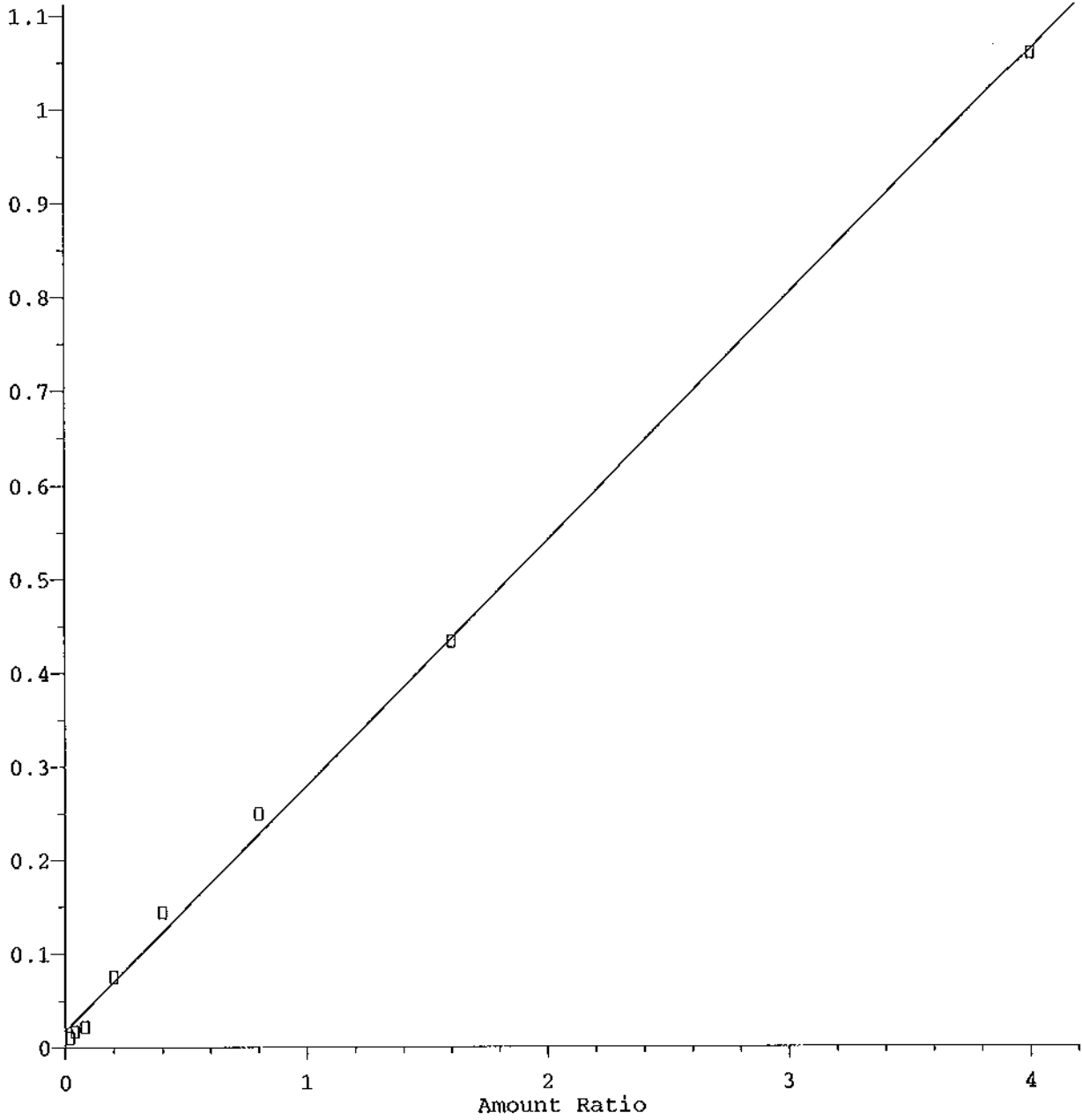


$R = 1.71e-002 A^2 + 1.65e+000 A - 3.68e-002$
Curve Fit: Quadratic

Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011

1,2,4-Trichlorobenzene

Response Ratio

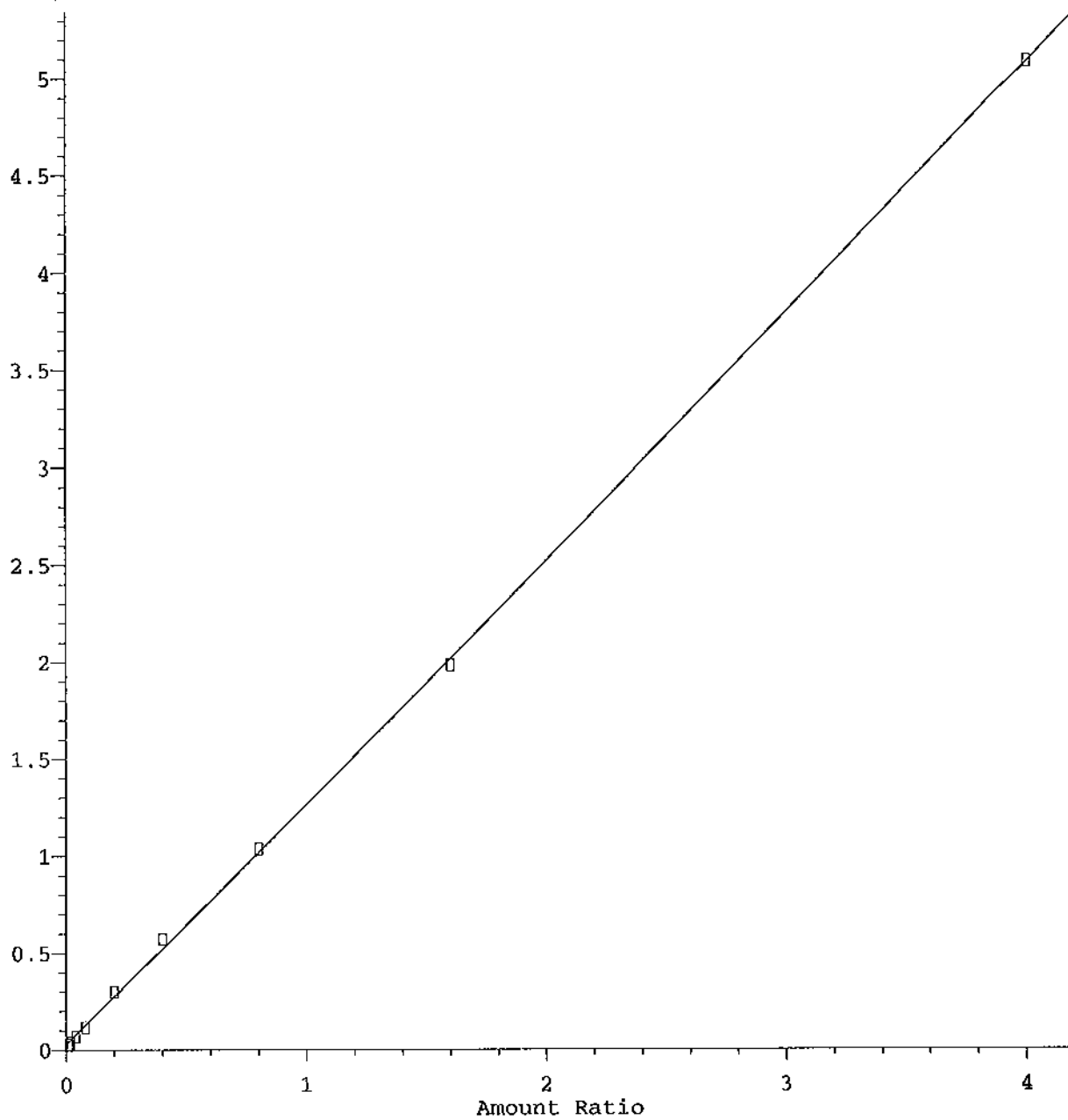


Resp Ratio = 2.62e-001 * Amt + 1.77e-002
Coef of Det (r^2) = 0.998 Curve Fit: Linear

Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011

Hexachlorobutadiene

Response Ratio



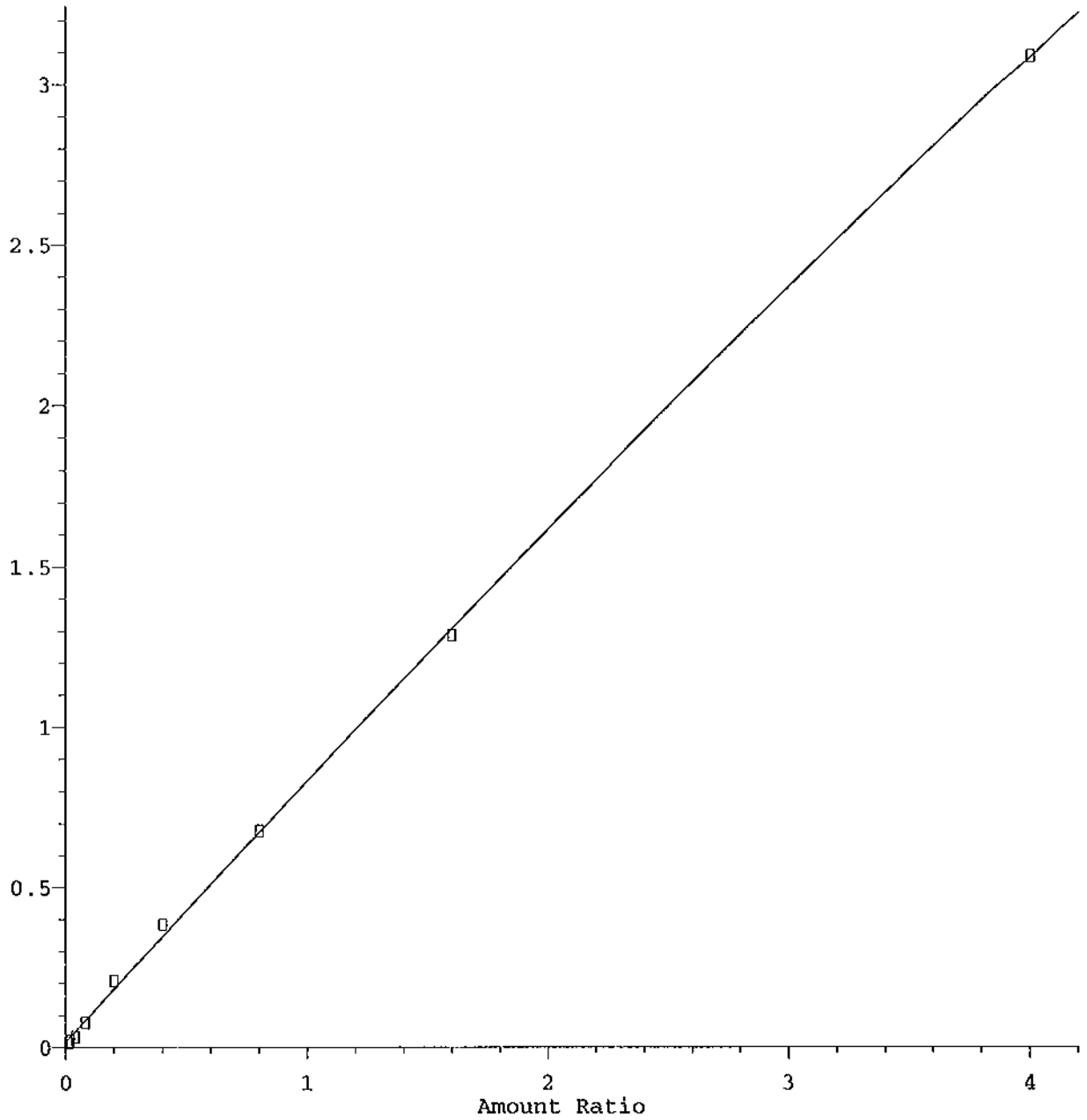
$$R = 9.69e-003 A^2 + 1.23e+000 A + 3.07e-002$$

Curve Fit: Quadratic

Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011

1,2,3-Trichlorobenzene

Response Ratio



$R = -1.60e-002 A^2 + 8.32e-001 A + 1.69e-002$
Curve Fit: Quadratic

Method Name: M:\CHICO\DATA\C111104\CALLW.M
Calibration Table Last Updated: Tue Nov 08 15:56:36 2011

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: 66186
Date Analyzed: 4 Nov 11 21:38
Instrument: Chico
Initial Cal. Date: 11/04/11
Data File: 1104C17W.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	Fluorobenzene (IS)	ISTD			I	
2	TM	Dichlorodifluoromethane	0.8369	1.083	29	TM	nt
3	TM	Freon 114	0.6910	0.8405	22	TM	nt
4	TM**	Chloromethane	1.083	1.032	4.7	TM**	✓
5	TM*	Vinyl chloride	0.8726	0.9581	9.8	TM*	✓
6	TM	1,3-Butadiene	0.0000	0.0008	0.00	TM	
7	TM	Bromomethane	0.5228	0.5289	1.2	TM	
8	TM	Chloroethane	0.1450	0.1469	1.3	TM	
9	TM	Dichlorofluoromethane	1.798	1.938	7.8	TM	
10	TM	Trichlorofluoromethane	1.205	1.390	15	TM	
11		Acetonitrile	0.0219	0.0271	24		nt
12	TM	Acrolein	0.0106	0.0097	8.1	TM	
13	TML	Acetone	0.1914	0.0967	49	TML	17
14	TM	Freon-113	0.6633	0.8222	24	TM	nt
15	TM*	1,1-DCE	0.6924	0.7816	13	TM*	✓
16	TM	t-Butanol	0.0033	0.0036	7.3	TM	
17	TML	Methyl Acetate	0.2360	0.2065	13	TML	7.3
18	TML	Iodomethane	0.4584	0.7873	72	TML	45
19	TM	Acrylonitrile	0.0741	0.0786	6.2	TM	
20	TML	Methylene chloride	1.728	0.7369	57	TML	14
21	TM	Carbon disulfide	0.5716	0.6567	15	TM	
22	TM	Methyl t-butyl ether (MTBE)	1.125	1.241	10	TM	
23	TM	Trans-1,2-DCE	0.6924	0.7816	13	TM	
24	TM	Diisopropyl Ether	2.051	2.498	22	TM	nt
25	TM**	1,1-DCA	1.437	1.638	14	TM**	✓
26	TM	Vinyl Acetate	0.1137	0.1488	31	TM	nt
27	TM	Ethyl tert Butyl Ether	1.735	1.825	5.2	TM	
28	TM	MEK (2-Butanone)	0.3247	0.3166	2.5	TM	
29	TM	Cis-1,2-DCE	0.8939	0.8818	1.4	TM	
30	TM	2,2-Dichloropropane	1.328	1.345	1.3	TM	
31	TM*	Chloroform	1.522	1.520	0.09	TM*	✓
32	TM	Bromochloromethane	0.2696	0.2605	3.4	TM	
33	S	Dibromofluoromethane(S)	0.8694	0.8084	7.0	S	
34	TM	1,1,1-TCA	1.477	1.547	4.8	TM	
35	TM	Cyclohexane	0.9526	1.001	5.1	TM	
36	TM	1,1-Dichloropropene	1.062	1.028	3.2	TM	
37	TML	2,2,4-Trimethylpentane	1.729	1.778	2.8	TML	13
38	S	1,2-DCA-D4(S)	0.7609	0.6945	8.7	S	
39	TM	Carbon Tetrachloride	1.128	1.202	6.6	TM	
40	TM	Tert Amyl Methyl Ether	1.263	1.121	11	TM	

Average

13.7

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: 66186
Date Analyzed: 4 Nov 11 21:38
Instrument: Chico
Cal. Date: 11/04/11
Data File: 1104C17W.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	1,2-DCA	0.8662	0.8041	7.2	TM
42	TM	Benzene	2.702	2.556	5.4	TM
43	TM	TCE	0.8552	0.8459	1.1	TM
44	TM	2-Pentanone	0.1532	0.1385	9.6	TM
45	TM*	1,2-Dichloropropane	0.6164	0.5698	7.6	TM*
46	TM	Bromodichloromethane	0.9282	0.8470	8.8	TM
47	TM	Methyl Cyclohexane	0.8836	0.9409	6.5	TM
48	TM	Dibromomethane	0.3237	0.2947	9.0	TM
49	TMQ	2-Chloroethyl vinyl ether	0.1663	0.1298	22	TMQ 20
50	TM	1-Bromo-2-chloroethane	0.5399	0.4958	8.2	TM
51	TM	Cis-1,3-Dichloropropene	0.7599	0.7321	3.7	TM
52	TM*	Toluene	2.866	2.709	5.5	TM*
53	TM	Trans-1,3-Dichloropropene	0.5775	0.5529	4.3	TM
54	TM	1,1,2-TCA	0.2849	0.2632	7.6	TM
55	I	Chlorobenzene-D5 (IS)	ISTD			I
56	S	Toluene-D8(S)	3.683	3.333	9.5	S
57	TM	1,2-EDB	0.5317	0.4851	8.8	TM
58	TM	Tetrachloroethene	1.267	1.206	4.9	TM
59	TM	1-Chlorohexane	1.355	1.453	7.2	TM
60	TM	1,1,1,2-Tetrachloroethane	0.9389	0.9030	3.8	TM
61	TM	m&p-Xylene	1.814	1.797	0.90	TM
62	TM	o-Xylene	1.728	1.793	3.8	TM
63	TM	Styrene	2.730	2.716	0.55	TM
64	S	4-Bromofluorobenzene(S)	1.299	1.275	1.9	S
65	TM	2-Hexanone	0.2068	0.1624	21	TM
66	TM	1,3-Dichloropropane	0.8715	0.7889	9.5	TM
67	TM	Dibromochloromethane	0.7424	0.6921	6.8	TM
68	TM**	Chlorobenzene	2.713	2.644	2.5	TM**
69	TM*	Ethylbenzene	4.738	4.779	0.86	TM*
70	TM**Q	Bromoform	0.2955	0.3240	9.6	TM**Q 10
71	I	1,4-Dichlorobenzene-D (IS)	ISTD			I
72	TML	MIBK (methyl isobutyl ketone)	0.6373	0.5287	17	TML 12
73	TM	Isopropylbenzene	9.335	9.530	2.1	TM
74	TM**	1,1,2,2-Tetrachloroethane	0.7939	0.7892	0.60	TM**
75	TMQ	1,2,3-Trichloropropane	0.1353	0.1026	24	TMQ 0.29
76	TML	t-1,4-Dichloro-2-Butene	0.2032	0.1804	11	TML 10
77	TM	Bromobenzene	2.050	2.051	0.05	TM
78	TM	n-Propylbenzene	10.6	11.0	3.2	TM
79	TM	4-Ethyltoluene	7.433	7.608	2.4	TM
80	TM	2-Chlorotoluene	7.098	7.129	0.43	TM

Average

6.8

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: 66186
Date Analyzed: 4 Nov 11 21:38
Instrument: Chico
Cal. Date: 11/04/11
Data File: 1104C17W.D

		Compound	MEAN	CCRF	%D	%Drift
81	TM	1,3,5-Trimethylbenzene	7.750	7.845	1.2	TM
82	TM	4-Chlorotoluene	6.236	5.954	4.5	TM
83	TM	Tert-Butylbenzene	8.231	8.534	3.7	TM
84	TM	1,2,4-Trimethylbenzene	7.613	7.807	2.5	TM
85	TM	Sec-Butylbenzene	9.947	10.2	2.8	TM
86	TM	p-Isopropyltoluene	8.745	8.884	1.6	TM
87	TM	Benzyl Chloride	1.482	1.410	4.8	TM
88	TM	1,3-DCB	4.028	4.083	1.4	TM
89	TM	1,4-DCB	3.774	3.939	4.4	TM
90	TMQ	Hexachloroethane	1.320	1.519	15	TMQ 2.7
91	TM	n-Butylbenzene	7.363	7.453	1.2	TM
92	TM	1,2-DCB	3.335	3.299	1.1	TM
93	TM	1,2-Dibromo-3-chloropropane	0.1210	0.1039	14	TM
94	TML	1,2,4-Trichlorobenzene	0.3487	0.2875	18	TML 7.1
95	TMQ	Hexachlorobutadiene	1.549	1.333	14	TMQ 2.2
96	TM	Naphthalene	3.551	2.941	17	TM
97	TMQ	1,2,3-Trichlorobenzene	0.9393	0.8264	12	TMQ 5.0
98						
99						
100						
101						
102						
103						
104						
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108						
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111						
112						
113						
114						
115						
116						
117						
118						
119						
120						

Average

7.0

Data File : M:\CHICO\DATA\C111104\1104C17W.D
 Acq On : 4 Nov 11 21:38
 Sample : 111104A LCS-1WC
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Nov 8 15:57 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

146874 x 25 = 10-98
383232 / 0.8726
8/12-9-11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.87	96	383232	25.00000	ppb	0.00
55) Chlorobenzene-D5 (IS)	18.06	117	285952	25.00000	ppb	0.00
71) 1,4-Dichlorobenzene-D (IS)	22.27	152	145408	25.00000	ppb	0.00
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.45	111	309786	23.24442	ppb	-0.02
Spiked Amount	21.097		Recovery	=	110.175%	
38) 1,2-DCA-D4(S)	12.26	65	266154	22.81965	ppb	0.00
Spiked Amount	21.225		Recovery	=	107.513%	
56) Toluene-D8(S)	15.53	98	953139	22.62473	ppb	-0.02
Spiked Amount	25.808		Recovery	=	87.666%	
64) 4-Bromofluorobenzene(S)	20.14	95	364641	24.53737	ppb	0.00
Spiked Amount	25.459		Recovery	=	96.377%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	4.09	85	166034	12.94255	ppb	100
3) Freon 114	4.36	85	128839	12.16263	ppb	98
4) Chloromethane	4.57	50	158139	9.52791	ppb	96
5) Vinyl chloride	4.84	62	146874	10.97959	ppb	100
7) Bromomethane	5.75	94	81078	10.11613	ppb	88
8) Chloroethane	5.94	64	22520	10.13030	ppb	# 72
9) Dichlorofluoromethane	6.03	67	297115	10.78228	ppb	99
10) Trichlorofluoromethane	6.55	101	213021	11.53287	ppb	84
11) Acetonitrile	7.67	41	51847	154.60056	ug/l	100
12) Acrolein	7.18	56	18650	114.93491	ppb	80
13) Acetone	7.29	43	14816	11.65939	ppb	# 78
14) Freon-113	7.49	101	126039	12.39606	ppb	90
15) 1,1-DCE	7.71	96	119819	11.28904	ppb	91
16) t-Butanol	7.79	59	6826	134.15236	ppb	96
17) Methyl Acetate	8.21	43	31649	10.73342	ppb	96
18) Iodomethane	8.19	142	120681	14.53541	ppb	96
19) Acrylonitrile	8.59	53	12053	10.61510	ppb	92
20) Methylene chloride	8.49	84	112959	11.43186	ppb	99
21) Carbon disulfide	8.58	76	100664	11.48919	ppb	99
22) Methyl t-butyl ether (MtBE)	8.91	73	190222	11.03073	ppb	93
23) Trans-1,2-DCE	7.71	96	119819	11.28904	ppb	90
24) Diisopropyl Ether	9.77	45	382971	12.18020	ppb	93
25) 1,1-DCA	9.82	63	251053	11.39548	ppb	93
26) Vinyl Acetate	9.45	43	22816	13.09611	ppb	87
27) Ethyl tert Butyl Ether	10.47	59	279686	10.51547	ppb	94
28) MEK (2-Butanone)	10.46	43	48540	9.75197	ppb	# 82
29) Cis-1,2-DCE	10.84	96	135177	9.86444	ppb	94
30) 2,2-Dichloropropane	10.84	77	206251	10.13387	ppb	# 82
31) Chloroform	11.12	83	233072	9.99057	ppb	97
32) Bromochloromethane	11.35	128	39929	9.65999	ppb	86
34) 1,1,1-TCA	11.86	97	237216	10.47598	ppb	98
35) Cyclohexane	12.03	56	153520	10.51367	ppb	99
36) 1,1-Dichloropropene	12.12	75	157550	9.68078	ppb	97
37) 2,2,4-Trimethylpentane	12.21	57	272496	11.26831	ppb	99
39) Carbon Tetrachloride	12.33	117	184323	10.65611	ppb	# 92
40) Tert Amyl Methyl Ether	12.37	73	171861	8.87970	ppb	96
41) 1,2-DCA	12.40	62	123260	9.28286	ppb	# 92
42) Benzene	12.53	78	391892	9.46210	ppb	98
43) TCE	13.56	95	129673	9.89150	ppb	89

(#) = qualifier out of range (m) = manual integration
 1104C17W.D CALLW.M Thu Dec 08 16:57:19 2011

Data File : M:\CHICO\DATA\C111104\1104C17W.D
 Acq On : 4 Nov 11 21:38
 Sample : 111104A LCS-1WC
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Nov 8 15:57 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 2-Pentanone	13.23	43	265441	113.00259	ppb	97
45) 1,2-Dichloropropane	13.79	63	87350	9.24480	ppb	96
46) Bromodichloromethane	14.14	83	129834	9.12476	ppb	93
47) Methyl Cyclohexane	13.84	83	144231	10.64773	ppb	98
48) Dibromomethane	14.20	93	45174	9.10431	ppb	96
49) 2-Chloroethyl vinyl ether	14.60	63	19893	8.04430	ppb #	75
50) 1-Bromo-2-chloroethane	14.91	63	76001	9.18232	ppb	98
51) Cis-1,3-Dichloropropene	15.03	75	112225	9.63387	ppb	88
52) Toluene	15.66	91	415293	9.45177	ppb	97
53) Trans-1,3-Dichloropropene	15.84	75	84755	9.57395	ppb	92
54) 1,1,2-TCA	16.11	83	40341	9.23805	ppb	96
57) 1,2-EDB	17.35	107	55485	9.12311	ppb #	81
58) Tetrachloroethene	16.81	164	137909	9.51454	ppb	98
59) 1-Chlorohexane	17.73	91	166225	10.72193	ppb	93
60) 1,1,1,2-Tetrachloroethane	18.19	131	103282	9.61726	ppb	96
61) m&p-Xylene	18.38	106	411158	19.81947	ppb	98
62) o-Xylene	19.13	106	205121	10.37547	ppb	99
63) Styrene	19.16	104	310601	9.94538	ppb	90
65) 2-Hexanone	16.14	43	18579	7.85513	ppb	78
66) 1,3-Dichloropropane	16.51	76	90236	9.05216	ppb	98
67) Dibromochloromethane	17.00	129	79166	9.32324	ppb	89
68) Chlorobenzene	18.13	112	302445	9.74529	ppb	95
69) Ethylbenzene	18.25	91	546628	10.08595	ppb	89
70) Bromoform	19.68	173	37064	8.98718	ppb	93
72) MIBK (methyl isobutyl keto	14.71	43	30749	8.82929	ppb	85
73) Isopropylbenzene	19.76	105	554319	10.20910	ppb	93
74) 1,1,2,2-Tetrachloroethane	19.93	83	45901	9.94042	ppb	89
75) 1,2,3-Trichloropropane	20.18	110	5967	10.02879	ppb	79
76) t-1,4-Dichloro-2-Butene	20.26	53	10493	8.97723	ppb	95
77) Bromobenzene	20.50	156	119307	10.00454	ppb	96
78) n-Propylbenzene	20.47	91	637698	10.31789	ppb	98
79) 4-Ethyltoluene	20.66	105	442515	10.23544	ppb	96
80) 2-Chlorotoluene	20.76	91	414623	10.04288	ppb	99
81) 1,3,5-Trimethylbenzene	20.74	105	456304	10.12270	ppb	100
82) 4-Chlorotoluene	20.85	91	346309	9.54764	ppb	96
83) Tert-Butylbenzene	21.39	119	496340	10.36765	ppb	92
84) 1,2,4-Trimethylbenzene	21.45	105	454065	10.25464	ppb	94
85) Sec-Butylbenzene	21.79	105	594456	10.27533	ppb	99
86) p-Isopropyltoluene	22.02	119	516723	10.15853	ppb	100
87) Benzyl Chloride	22.45	91	82013	9.51574	ppb	98
88) 1,3-DCB	22.15	146	237502	10.13687	ppb	94
89) 1,4-DCB	22.33	146	229121	10.43832	ppb	95
90) Hexachloroethane	23.62	117	88323	9.72566	ppb	93
91) n-Butylbenzene	22.72	91	433510	10.12269	ppb	98
92) 1,2-DCB	22.95	146	191902	9.89210	ppb	95
93) 1,2-Dibromo-3-chloropropan	24.17	155	6044	8.59114	ppb #	66
94) 1,2,4-Trichlorobenzene	25.62	145	16720	9.29112	ppb	99
95) Hexachlorobutadiene	25.89	223	77536	10.22041	ppb	97
96) Naphthalene	25.99	128	171072	8.28298	ppb	95
97) 1,2,3-Trichlorobenzene	26.37	180	48064	9.49647	ppb	98

Quantitation Report

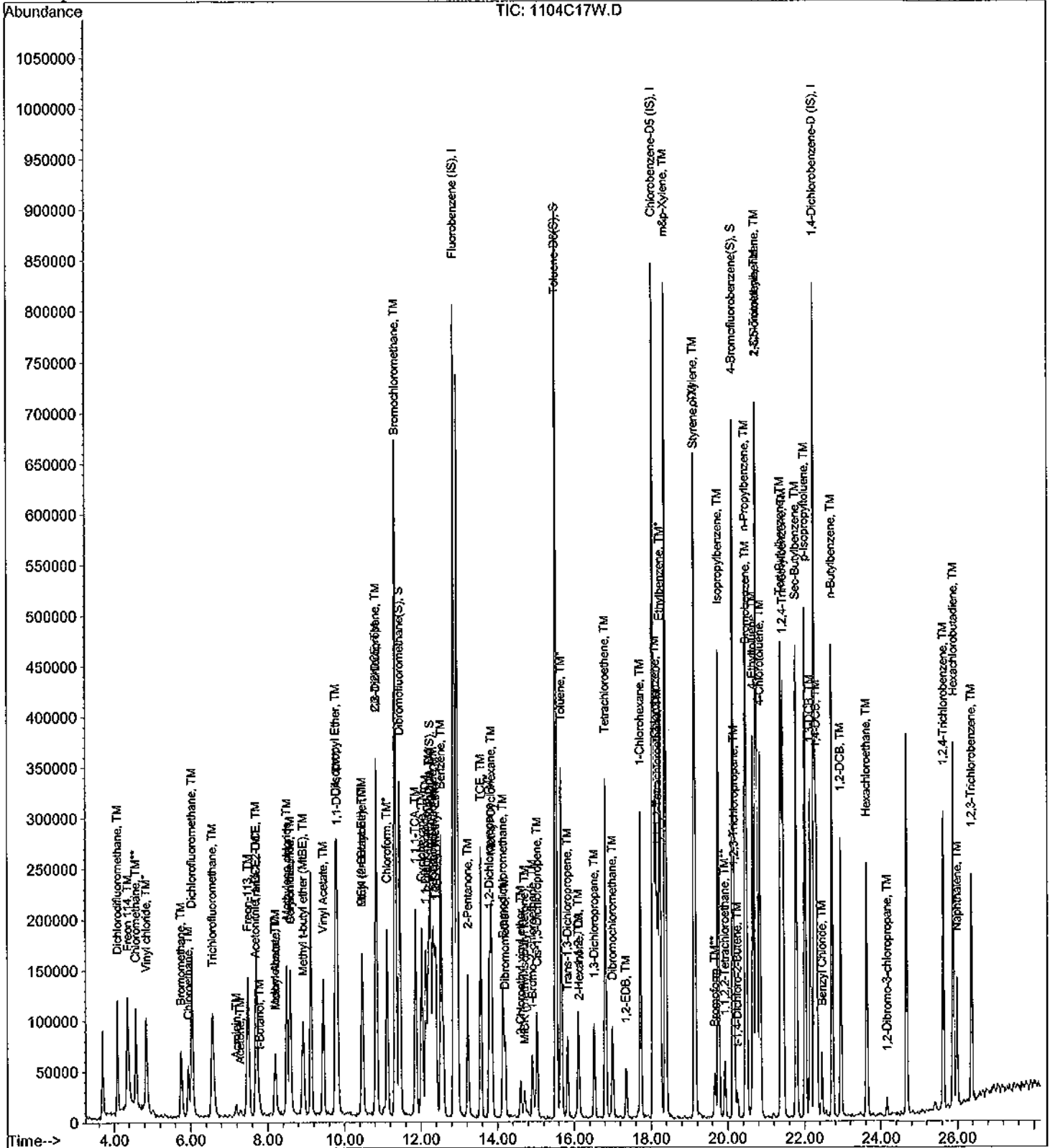
Data File : M:\CHICO\DATA\C111104\1104C17W.D
 Acq On : 4 Nov 11 21:38
 Sample : 111104A LCS-1WC
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Nov 8 15:57 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: 66186

Case No: _____

Date Analyzed: 5 Nov 11 12:02

Matrix: _____

Instrument: Chico

Initial Cal. Date: 11/04/11

Data File: 1105C02W.D

		Compound	MEAN	CCRF	%D	%Drift
1	I	Fluorobenzene (IS)	ISTD			I
2	TM	Dichlorodifluoromethane	0.8369	0.7851	6.2	TM
3	TM	Freon 114	0.6910	0.6254	9.5	TM
4	TM**	Chloromethane	1.083	0.9432	13	TM** ✓
5	TM*	Vinyl chloride	0.8726	0.7242	17	TM*
6	TM	1,3-Butadiene	0.0000	0.0010	0.00	TM
7	TM	Bromomethane	0.5228	0.4681	10	TM
8	TM	Chloroethane	0.1450	0.1743	20	TM
9	TM	Dichlorofluoromethane	1.798	1.742	3.1	TM
10	TM	Trichlorofluoromethane	1.205	1.033	14	TM
11		Acetonitrile	0.0219	0.0297	36	
12	TM	Acrolein	0.0106	0.0108	2.0	TM
13	TML	Acetone	0.1914	0.0970	49	TML 17
14	TM	Freon-113	0.6633	0.6448	2.8	TM
15	TM*	1,1-DCE	0.6924	0.6238	9.9	TM* ✓
16	TM	t-Butanol	0.0033	0.0039	18	TM
17	TML	Methyl Acetate	0.2360	0.2042	13	TML 6.1
18	TML	Iodomethane	0.4584	0.4445	3.0	TML 8.0
19	TM	Acrylonitrile	0.0741	0.0792	6.9	TM
20	TML	Methylene chloride	1.728	0.6257	64	TML 6.3
21	TM	Carbon disulfide	0.5716	0.6036	5.6	TM
22	TM	Methyl t-butyl ether (MIBE)	1.125	1.021	9.2	TM
23	TM	Trans-1,2-DCE	0.6924	0.6238	9.9	TM
24	TM	Diisopropyl Ether	2.051	2.325	13	TM
25	TM**	1,1-DCA	1.437	1.441	0.26	TM** ✓
26	TM	Vinyl Acetate	0.1137	0.1472	30	TM
27	TM	Ethyl tert Butyl Ether	1.735	1.623	6.5	TM
28	TM	MEK (2-Butanone)	0.3247	0.2920	10	TM
29	TM	Cis-1,2-DCE	0.8939	0.7986	11	TM
30	TM	2,2-Dichloropropane	1.328	1.186	11	TM
31	TM*	Chloroform	1.522	1.354	11	TM* ✓
32	TM	Bromochloromethane	0.2696	0.2307	14	TM
33	S	Dibromofluoromethane(S)	0.8694	0.8279	4.8	S
34	TM	1,1,1-TCA	1.477	1.252	15	TM
35	TM	Cyclohexane	0.9526	1.154	21	TM
36	TM	1,1-Dichloropropene	1.062	1.012	4.7	TM
37	TML	2,2,4-Trimethylpentane	1.729	1.864	7.8	TML 18
38	S	1,2-DCA-D4(S)	0.7609	0.6699	12	S
39	TM	Carbon Tetrachloride	1.128	0.9233	18	TM
40	TM	Tert Amyl Methyl Ether	1.263	1.145	9.3	TM

Average

13.4

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: 66186
Date Analyzed: 5 Nov 11 12:02
Instrument: Chico
Cal. Date: 11/04/11
Data File: 1105C02W.D

		Compound	MEAN	CCRF	%D	%Drift
41	TM	1,2-DCA	0.8662	0.6991	19	TM
42	TM	Benzene	2.702	2.863	5.9	TM
43	TM	TCE	0.8552	0.7844	8.3	TM
44	TM	2-Pentanone	0.1532	0.1741	14	TM
45	TM*	1,2-Dichloropropane	0.6164	0.6905	12	TM* ✓
46	TM	Bromodichloromethane	0.9282	0.8244	11	TM
47	TM	Methyl Cyclohexane	0.8836	0.9955	13	TM
48	TM	Dibromomethane	0.3237	0.2887	11	TM
49	TMQ	2-Chloroethyl vinyl ether	0.1663	0.1509	9.2	TMQ 6.1
50	TM	1-Bromo-2-chloroethane	0.5399	0.5788	7.2	TM
51	TM	Cis-1,3-Dichloropropene	0.7599	0.7813	2.8	TM
52	TM*	Toluene	2.866	2.831	1.2	TM* ✓
53	TM	Trans-1,3-Dichloropropene	0.5775	0.5443	5.7	TM
54	TM	1,1,2-TCA	0.2849	0.2931	2.9	TM
55	I	Chlorobenzene-D5 (IS)	ISTD			I
56	S	Toluene-D8(S)	3.683	3.519	4.5	S
57	TM	1,2-EDB	0.5317	0.4671	12	TM
58	TM	Tetrachloroethene	1.267	1.135	10	TM
59	TM	1-Chlorohexane	1.355	1.455	7.4	TM
60	TM	1,1,1,2-Tetrachloroethane	0.9389	0.8573	8.7	TM
61	TM	m&p-Xylene	1.814	1.772	2.3	TM
62	TM	o-Xylene	1.728	1.765	2.1	TM
63	TM	Styrene	2.730	2.670	2.2	TM
64	S	4-Bromofluorobenzene(S)	1.299	1.319	1.5	S
65	TM	2-Hexanone	0.2068	0.2246	8.6	TM
66	TM	1,3-Dichloropropane	0.8715	0.9196	5.5	TM
67	TM	Dibromochloromethane	0.7424	0.6310	15	TM
68	TM**	Chlorobenzene	2.713	2.573	5.2	TM** ✓
69	TM*	Ethylbenzene	4.738	4.712	0.56	TM* ✓
70	TM**Q	Bromoform	0.2955	0.2923	1.1	TM**Q 19
71	I	1,4-Dichlorobenzene-D (IS)	ISTD			I
72	TML	MIBK (methyl isobutyl ketone)	0.6373	0.6498	2.0	TML 12
73	TM	Isopropylbenzene	9.335	8.879	4.9	TM
74	TM**	1,1,2,2-Tetrachloroethane	0.7939	0.8756	10	TM** ✓
75	TMQ	1,2,3-Trichloropropane	0.1353	0.0906	33	TMQ 13
76	TML	t-1,4-Dichloro-2-Butene	0.2032	0.1862	8.4	TML 7.2
77	TM	Bromobenzene	2.050	1.944	5.2	TM
78	TM	n-Propylbenzene	10.6	10.8	1.6	TM
79	TM	4-Ethyltoluene	7.433	7.612	2.4	TM
80	TM	2-Chlorotoluene	7.098	7.077	0.30	TM

Average

7.3

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: 0

SDG No: 66186
Date Analyzed: 5 Nov 11 12:02
Instrument: Chico
Cal. Date: 11/04/11
Data File: 1105C02W.D

		Compound	MEAN	CCRF	%D	%Drift	
81	TM	1,3,5-Trimethylbenzene	7.750	7.247	6.5	TM	
82	TM	4-Chlorotoluene	6.236	6.078	2.5	TM	
83	TM	Tert-Butylbenzene	8.231	8.192	0.47	TM	
84	TM	1,2,4-Trimethylbenzene	7.613	7.471	1.9	TM	
85	TM	Sec-Butylbenzene	9.947	10.1	1.9	TM	
86	TM	p-Isopropyltoluene	8.745	8.532	2.4	TM	
87	TM	Benzyl Chloride	1.482	1.565	5.6	TM	
88	TM	1,3-DCB	4.028	4.213	4.6	TM	
89	TM	1,4-DCB	3.774	4.014	6.4	TM	
90	TMQ	Hexachloroethane	1.320	1.402	6.2	TMQ	9.8
91	TM	n-Butylbenzene	7.363	7.398	0.47	TM	
92	TM	1,2-DCB	3.335	3.392	1.7	TM	
93	TM	1,2-Dibromo-3-chloropropane	0.1210	0.1330	10.0	TM	
94	TML	1,2,4-Trichlorobenzene	0.3487	0.2630	25	TML	16
95	TMQ	Hexachlorobutadiene	1.549	1.156	25	TMQ	12
96	TM	Naphthalene	3.551	3.109	12	TM	
97	TMQ	1,2,3-Trichlorobenzene	0.9393	0.6883	27	TMQ	22
98							
99							
100							
101							
102							
103							
104							
105							
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114							
115							
116							
117							
118							
119							
120							

Average

8.2

Data File : M:\CHICO\DATA\C111104\1105C02W.D
 Acq On : 5 Nov 11 12:02
 Sample : VOC STD 11-5-11@10ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Nov 8 15:57 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	96	595584	25.00000	ppb	-0.03
55) Chlorobenzene-D5 (IS)	18.05	117	402432	25.00000	ppb	-0.02
71) 1,4-Dichlorobenzene-D (IS)	22.24	152	212800	25.00000	ppb	-0.03
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.43	111	416096	20.08951	ppb	-0.03
Spiked Amount	21.097		Recovery	=	95.226%	
38) 1,2-DCA-D4(S)	12.23	65	338741	18.68798	ppb	-0.03
Spiked Amount	21.225		Recovery	=	88.046%	
56) Toluene-D8(S)	15.51	98	1461966	24.65841	ppb	-0.03
Spiked Amount	25.808		Recovery	=	95.543%	
64) 4-Bromofluorobenzene(S)	20.12	95	540544	25.84605	ppb	-0.03
Spiked Amount	25.459		Recovery	=	101.518%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.08	85	187041	9.38163	ppb	100
3) Freon 114	4.33	85	148987	9.04997	ppb	85
4) Chloromethane	4.55	50	224711	8.71168	ppb	# 85
5) Vinyl chloride	4.81	62	172524	8.29869	ppb	97
7) Bromomethane	5.73	94	111513	8.95273	ppb	99
8) Chloroethane	5.92	64	41520	12.01794	ppb	# 90
9) Dichlorofluoromethane	6.01	67	415073	9.69235	ppb	99
10) Trichlorofluoromethane	6.53	101	246137	8.57453	ppb	89
11) Acetonitrile	7.66	41	88515	169.83338	ug/l	100
12) Acrolein	7.15	56	32139	127.44542	ppb	93
13) Acetone	7.28	43	23106	11.70007	ppb	# 87
14) Freon-113	7.46	101	153621	9.72183	ppb	91
15) 1,1-DCE	7.69	96	148600	9.00884	ppb	85
16) t-Butanol	7.76	59	11630	147.07217	ppb	98
17) Methyl Acetate	8.19	43	48642	10.60824	ppb	97
18) Iodomethane	8.16	142	105892	9.20009	ppb	90
19) Acrylonitrile	8.56	53	18858	10.68669	ppb	99
20) Methylene chloride	8.48	84	149070	9.37007	ppb	98
21) Carbon disulfide	8.57	76	143808	10.56129	ppb	99
22) Methyl t-butyl ether (MtBE)	8.90	73	243242	9.07613	ppb	91
23) Trans-1,2-DCE	7.69	96	148600	9.00884	ppb	83
24) Diisopropyl Ether	9.76	45	553895	11.33535	ppb	92
25) 1,1-DCA	9.79	63	343267	10.02578	ppb	# 91
26) Vinyl Acetate	9.43	43	35066	12.95114	ppb	# 77
27) Ethyl tert Butyl Ether	10.45	59	386566	9.35191	ppb	97
28) MEK (2-Butanone)	10.45	43	69554	8.99153	ppb	# 92
29) Cis-1,2-DCE	10.82	96	190260	8.93379	ppb	95
30) 2,2-Dichloropropane	10.81	77	282489	8.93099	ppb	99
31) Chloroform	11.09	83	322565	8.89684	ppb	97
32) Bromochloromethane	11.32	128	54954	8.55473	ppb	88
34) 1,1,1-TCA	11.84	97	298251	8.47523	ppb	95
35) Cyclohexane	12.00	56	274837	12.11110	ppb	83
36) 1,1-Dichloropropene	12.11	75	240980	9.52778	ppb	94
37) 2,2,4-Trimethylpentane	12.18	57	443989	11.81828	ppb	99
39) Carbon Tetrachloride	12.30	117	219963	8.18253	ppb	97
40) Tert Amyl Methyl Ether	12.35	73	272887	9.07241	ppb	98
41) 1,2-DCA	12.38	62	166546	8.07072	ppb	99
42) Benzene	12.50	78	681947	10.59475	ppb	98
43) TCE	13.54	95	186872	9.17224	ppb	88

(#) = qualifier out of range (m) = manual integration
 1105C02W.D CALLW.M Thu Dec 08 16:57:25 2011

Data File : M:\CHICO\DATA\C111104\1105C02W.D
 Acq On : 5 Nov 11 12:02
 Sample : VOC STD 11-5-11@10ug/L
 Misc : Water 10mLw/ IS:10-30-11

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Quant Time: Nov 8 15:57 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 2-Pentanone	13.20	43	518357	141.99339	ppb	99
45) 1,2-Dichloropropane	13.77	63	164490	11.20193	ppb #	93
46) Bromodichloromethane	14.12	83	196399	8.88160	ppb	96
47) Methyl Cyclohexane	13.82	83	237152	11.26533	ppb	95
48) Dibromomethane	14.18	93	68773	8.91857	ppb	96
49) 2-Chloroethyl vinyl ether	14.57	63	35959	9.38611	ppb #	87
50) 1-Bromo-2-chloroethane	14.89	63	137887	10.71951	ppb	89
51) Cis-1,3-Dichloropropene	15.01	75	186126	10.28104	ppb	89
52) Toluene	15.64	91	674495	9.87770	ppb	99
53) Trans-1,3-Dichloropropene	15.81	75	129670	9.42506	ppb	95
54) 1,1,2-TCA	16.08	83	69828	10.28921	ppb	88
57) 1,2-EDB	17.33	107	75185	8.78414	ppb	89
58) Tetrachloroethene	16.80	164	182629	8.95294	ppb	92
59) 1-Chlorohexane	17.72	91	234240	10.73590	ppb	95
60) 1,1,1,2-Tetrachloroethane	18.16	131	138000	9.13075	ppb	95
61) m&p-Xylene	18.37	106	570391	19.53694	ppb	96
62) o-Xylene	19.11	106	284102	10.21110	ppb	94
63) Styrene	19.13	104	429791	9.77859	ppb	98
65) 2-Hexanone	16.11	43	36154	10.86145	ppb	81
66) 1,3-Dichloropropane	16.50	76	148029	10.55164	ppb	99
67) Dibromochloromethane	16.98	129	101571	8.49960	ppb	86
68) Chlorobenzene	18.11	112	414257	9.48459	ppb	97
69) Ethylbenzene	18.22	91	758442	9.94370	ppb	89
70) Bromoform	19.64	173	47045	8.14812	ppb	99
72) MIBK (methyl isobutyl keto)	14.68	43	55310	11.24986	ppb	85
73) Isopropylbenzene	19.74	105	755753	9.51095	ppb	96
74) 1,1,2,2-Tetrachloroethane	19.90	83	74527	11.02841	ppb	77
75) 1,2,3-Trichloropropane	20.17	110	7715	8.69010	ppb #	67
76) t-1,4-Dichloro-2-Butene	20.24	53	15851	9.27804	ppb	95
77) Bromobenzene	20.48	156	165490	9.48243	ppb	86
78) n-Propylbenzene	20.45	91	919293	10.16357	ppb	97
79) 4-Ethyltoluene	20.65	105	647894	10.23998	ppb	95
80) 2-Chlorotoluene	20.75	91	602388	9.97006	ppb	96
81) 1,3,5-Trimethylbenzene	20.73	105	616868	9.35085	ppb	97
82) 4-Chlorotoluene	20.82	91	517389	9.74689	ppb	100
83) Tert-Butylbenzene	21.36	119	697318	9.95287	ppb	96
84) 1,2,4-Trimethylbenzene	21.42	105	635940	9.81376	ppb	91
85) Sec-Butylbenzene	21.76	105	862804	10.19072	ppb	97
86) p-Isopropyltoluene	22.00	119	726226	9.75577	ppb	96
87) Benzyl Chloride	22.44	91	133182	10.55898	ppb	95
88) 1,3-DCB	22.14	146	358645	10.45967	ppb	97
89) 1,4-DCB	22.30	146	341697	10.63711	ppb	89
90) Hexachloroethane	23.61	117	119303	9.02207	ppb	92
91) n-Butylbenzene	22.71	91	629702	10.04728	ppb	94
92) 1,2-DCB	22.93	146	288763	10.17108	ppb	92
93) 1,2-Dibromo-3-chloropropan	24.15	155	11323	10.99776	ppb	82
94) 1,2,4-Trichlorobenzene	25.61	145	22384	8.35546	ppb	94
95) Hexachlorobutadiene	25.87	223	98370	8.78100	ppb	96
96) Naphthalene	25.97	128	264651	8.75584	ppb	99
97) 1,2,3-Trichlorobenzene	26.36	180	58584	7.81347	ppb	95

Quantitation Report

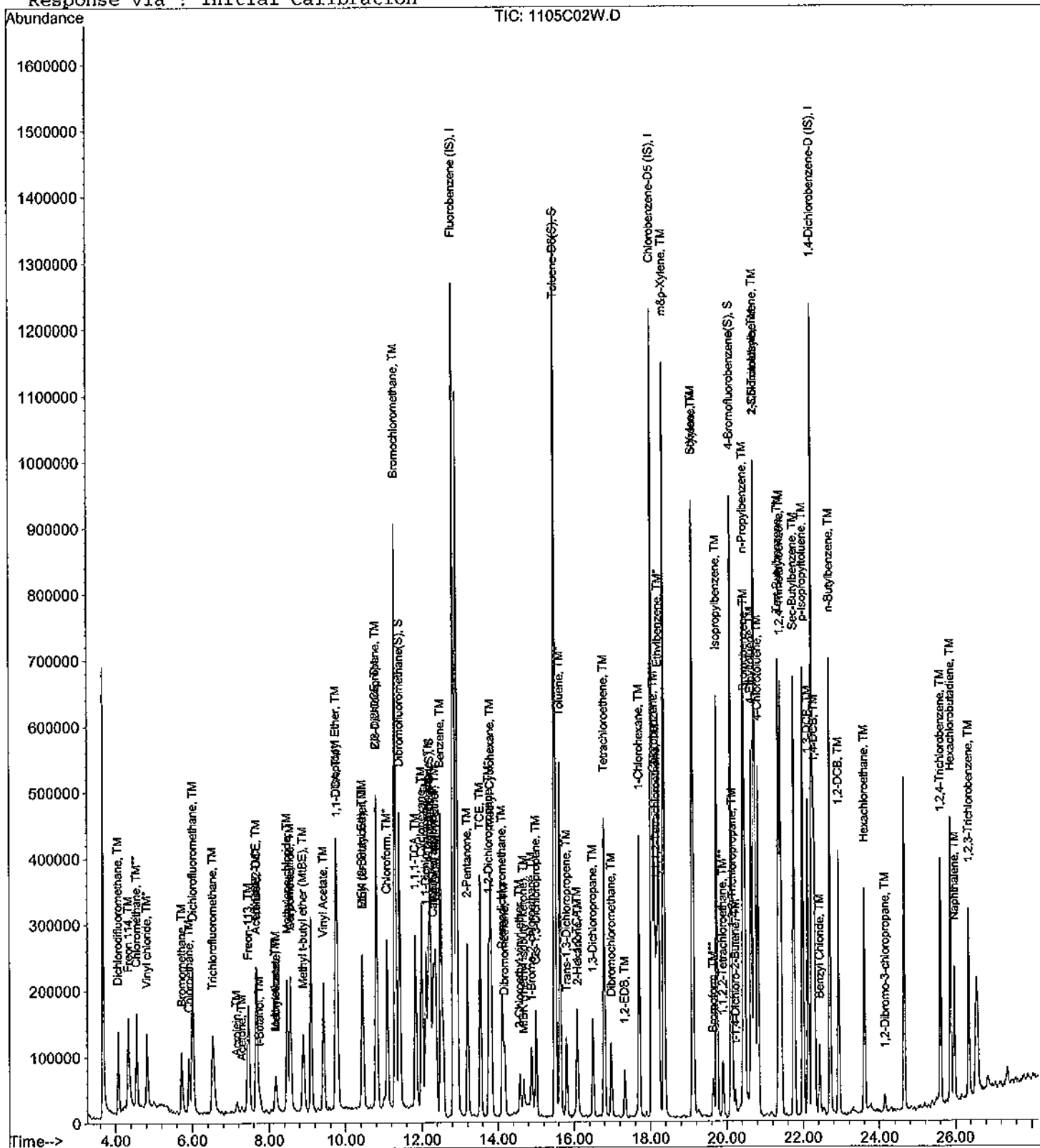
Data File : M:\CHICO\DATA\C111104\1105C02W.D
Acq On : 5 Nov 11 12:02
Sample : VOC STD 11-5-11@10ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 8 15:57 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C04W.D Vial: 1
 Acq On : 30 Oct 11 15:33 Operator: STC
 Sample : VOC MIX MARKER Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Oct 31 8:20 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:19:23 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1053416	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.04	TIC	1584235	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.25	TIC	1040375	25.00000	ppb	0.01

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	14.31	TIC	19553836m	92.16198	ppb	0

Quantitation Report

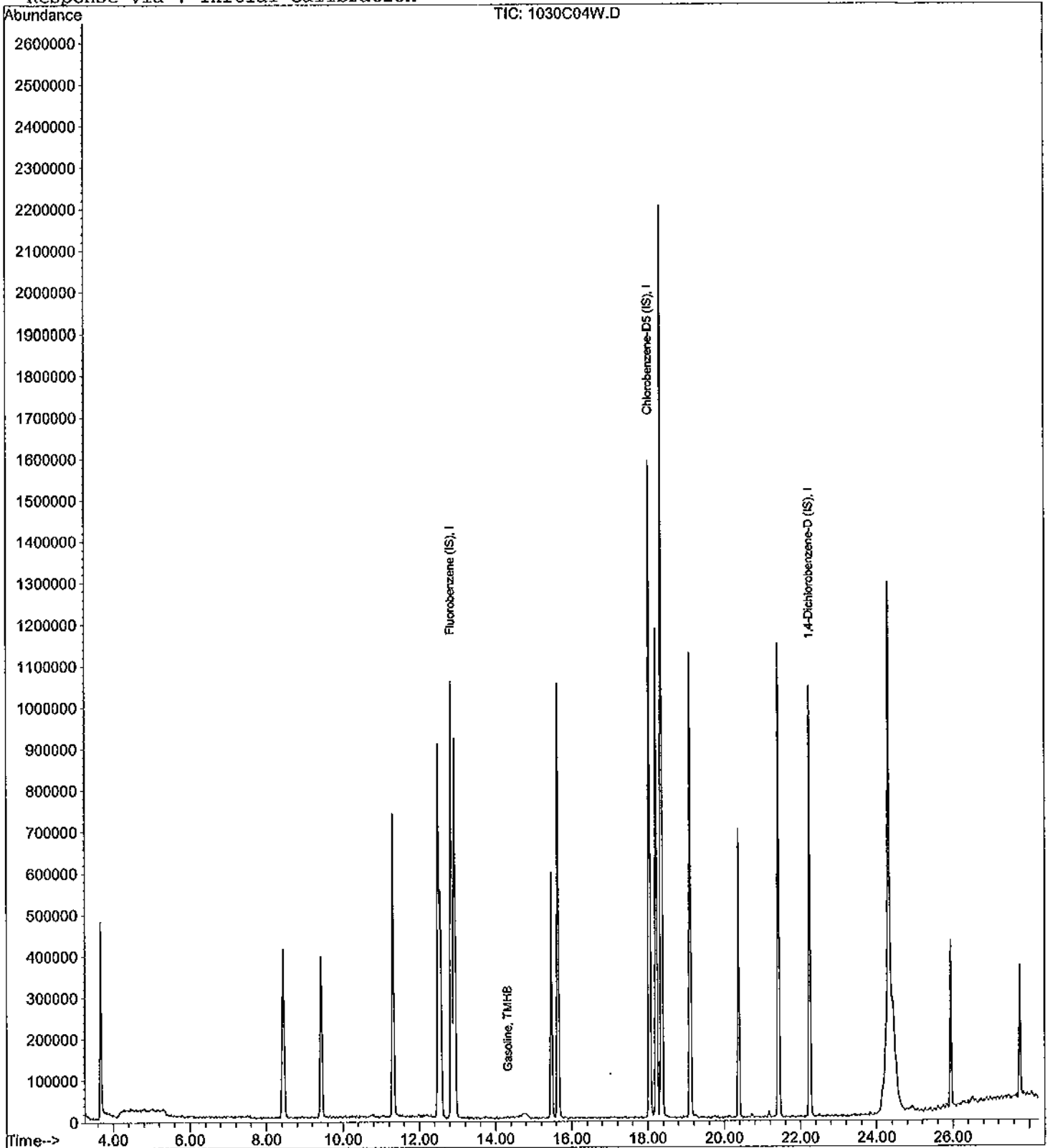
Data File : M:\CHICO\DATA\C111030\1030C04W.D
Acq On : 30 Oct 11 15:33
Sample : VOC MIX MARKER
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Oct 31 8:20 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C05W.D Vial: 1
 Acq On : 30 Oct 11 16:17 Operator: STC
 Sample : Vol Std 10-30-11@20ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 9:29 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:32:18 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.86	TIC	1064868	25.00000	ppb	0.02
3) Chlorobenzene-D5 (IS)	18.05	TIC	1075283	25.00000	ppb	0.01
4) 1,4-Dichlorobenzene-D (IS)	22.26	TIC	1031464	25.00000	ppb	0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	18.05	TIC	15186538m	62.79631	ppb	100

Quantitation Report

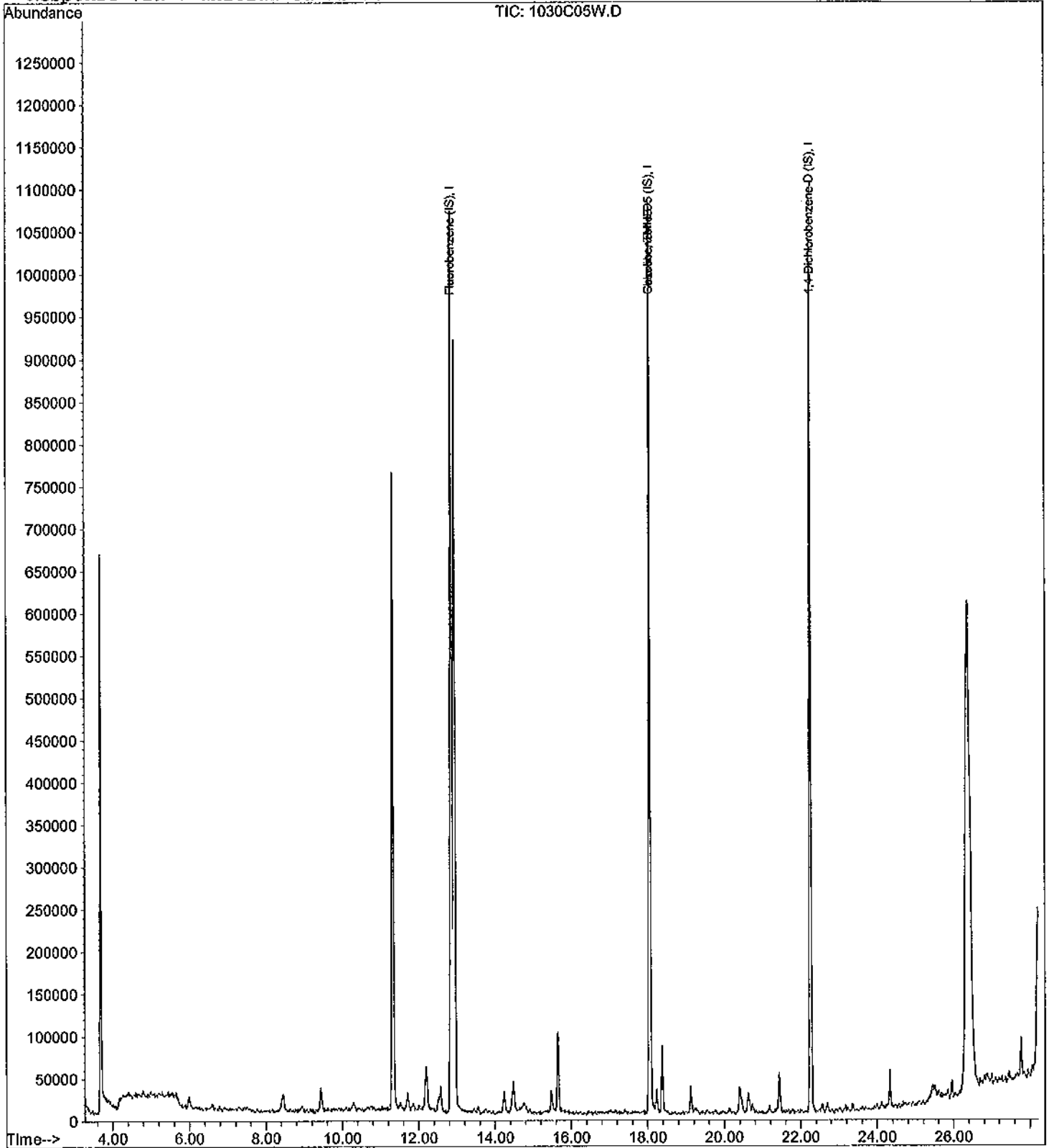
Data File : M:\CHICO\DATA\C111030\1030C05W.D
Acq On : 30 Oct 11 16:17
Sample : Vol Std 10-30-11@20ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 9:29 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C06W.D Vial: 1
 Acq On : 30 Oct 11 17:00 Operator: STC
 Sample : Vol Std 10-30-11@50ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 9:30 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:32:18 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1074535	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.04	TIC	1105653	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.24	TIC	1049854	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	18.04	TIC	17501250m	71.71659	ppb	100

Quantitation Report

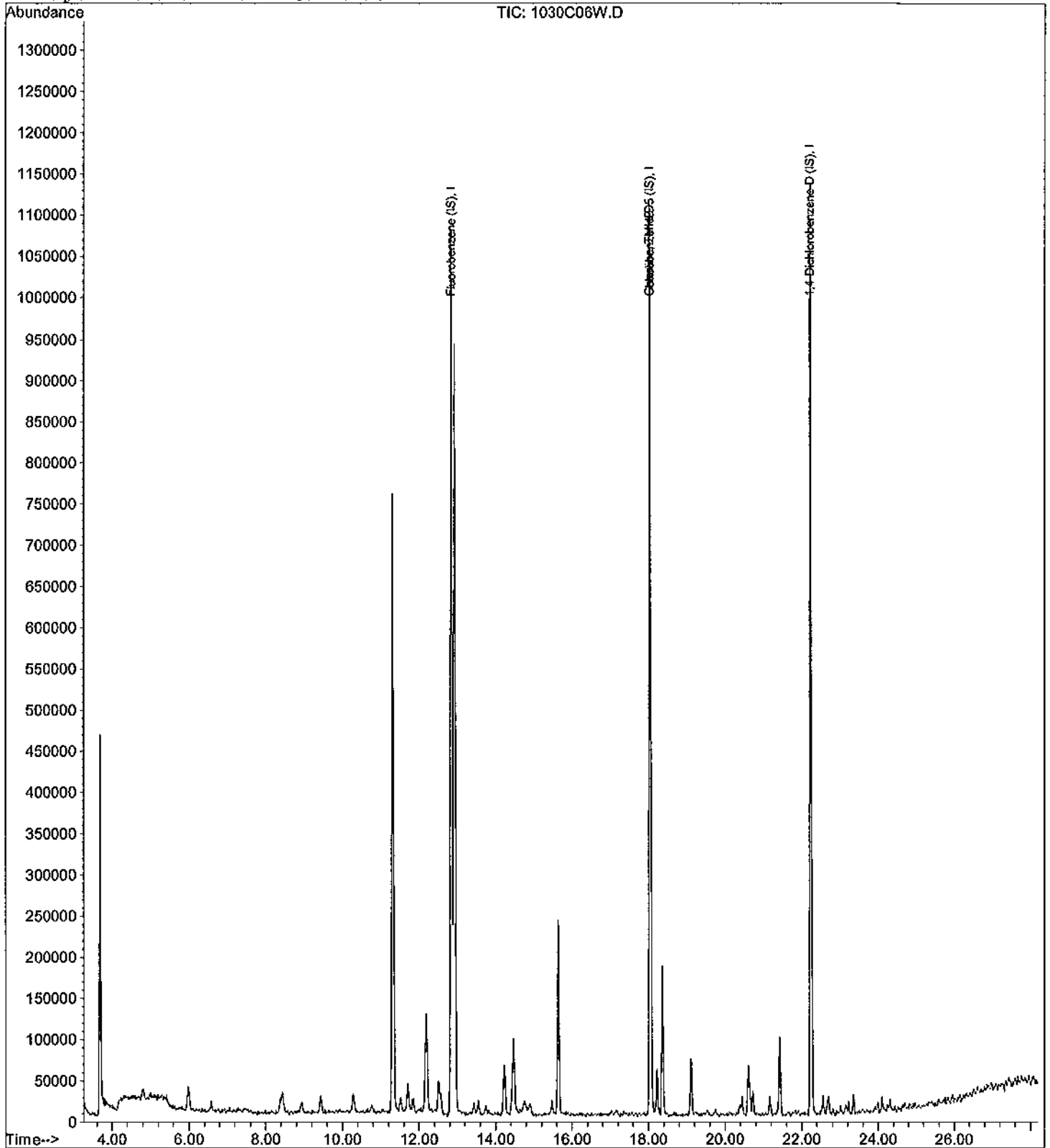
Data File : M:\CHICO\DATA\C111030\1030C06W.D
Acq On : 30 Oct 11 17:00
Sample : Vol Std 10-30-11@50ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 9:30 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C07W.D Vial: 1
 Acq On : 30 Oct 11 17:43 Operator: STC
 Sample : Vol Std 10-30-11@100ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 9:38 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:32:18 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1049972	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.04	TIC	1057194	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.24	TIC	1054110	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	18.04	TIC	21647604m	90.78273	ppb	100

Quantitation Report

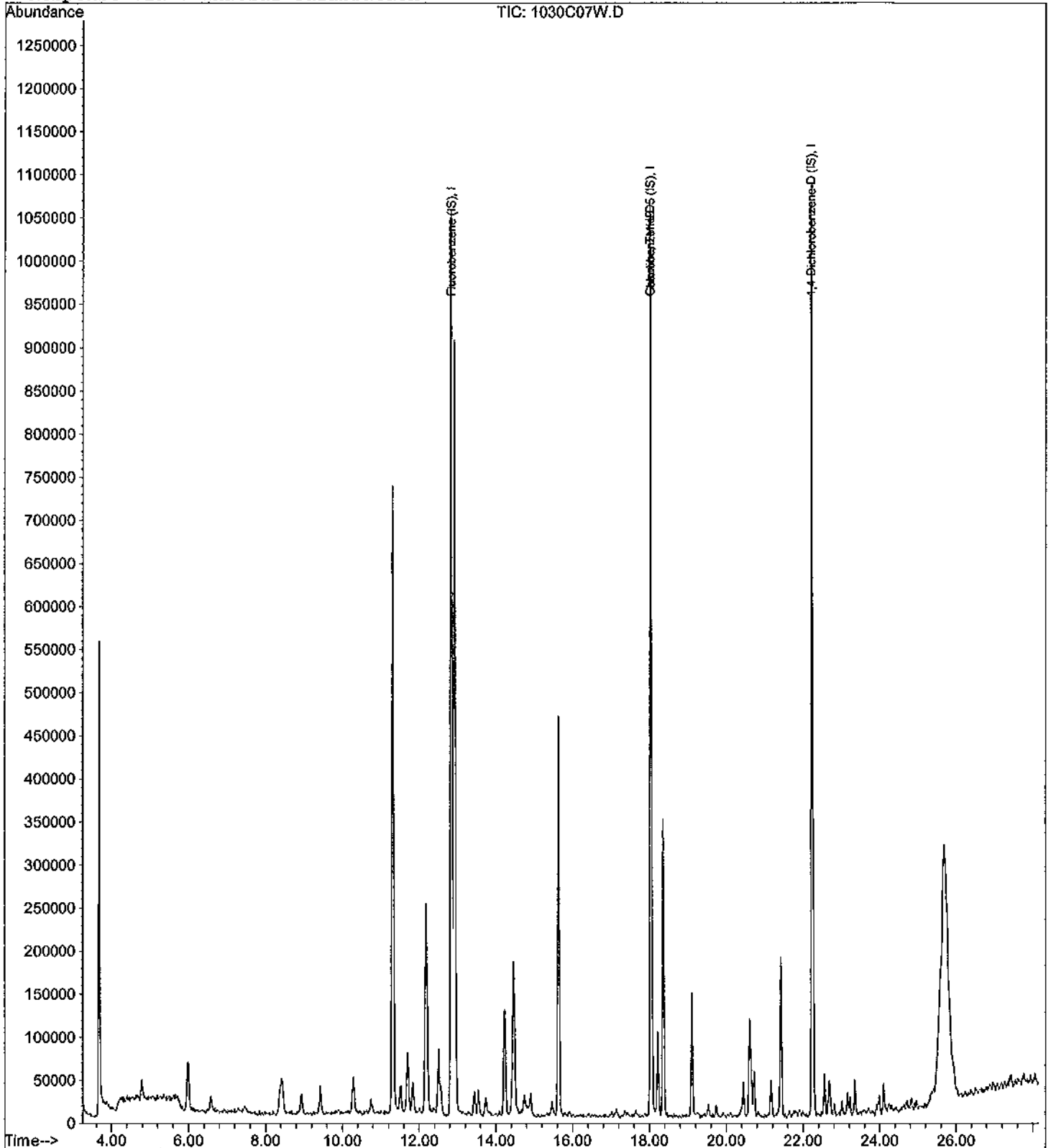
Data File : M:\CHICO\DATA\C111030\1030C07W.D
Acq On : 30 Oct 11 17:43
Sample : Vol Std 10-30-11@100ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 9:38 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C08W.D Vial: 1
 Acq On : 30 Oct 11 18:26 Operator: STC
 Sample : Vol Std 10-30-11@300ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 9:40 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:32:18 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	TIC	1085666	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.04	TIC	1080398	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.24	TIC	1118273	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	15.64	TIC	39740510m	161.17894	ppb	100

Quantitation Report

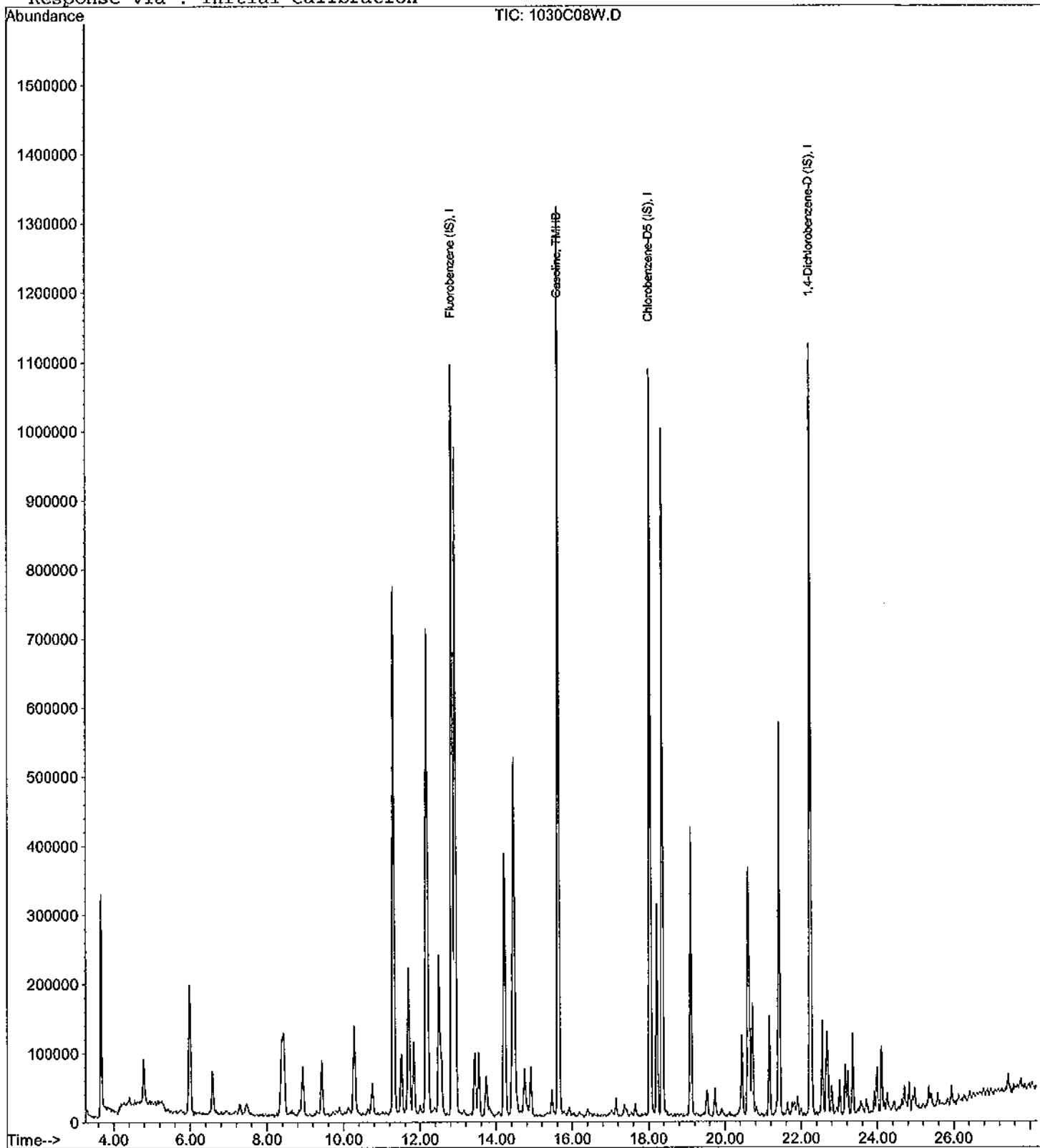
Data File : M:\CHICO\DATA\C111030\1030C08W.D
Acq On : 30 Oct 11 18:26
Sample : Vol Std 10-30-11@300ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 9:40 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C09W.D Vial: 1
 Acq On : 30 Oct 11 19:09 Operator: STC
 Sample : Vol Std 10-30-11@600ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 9:41 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:32:18 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	TIC	1104080	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.04	TIC	1114811	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.25	TIC	1175050	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	15.64	TIC	65808275m	262.45271	ppb	100

Quantitation Report

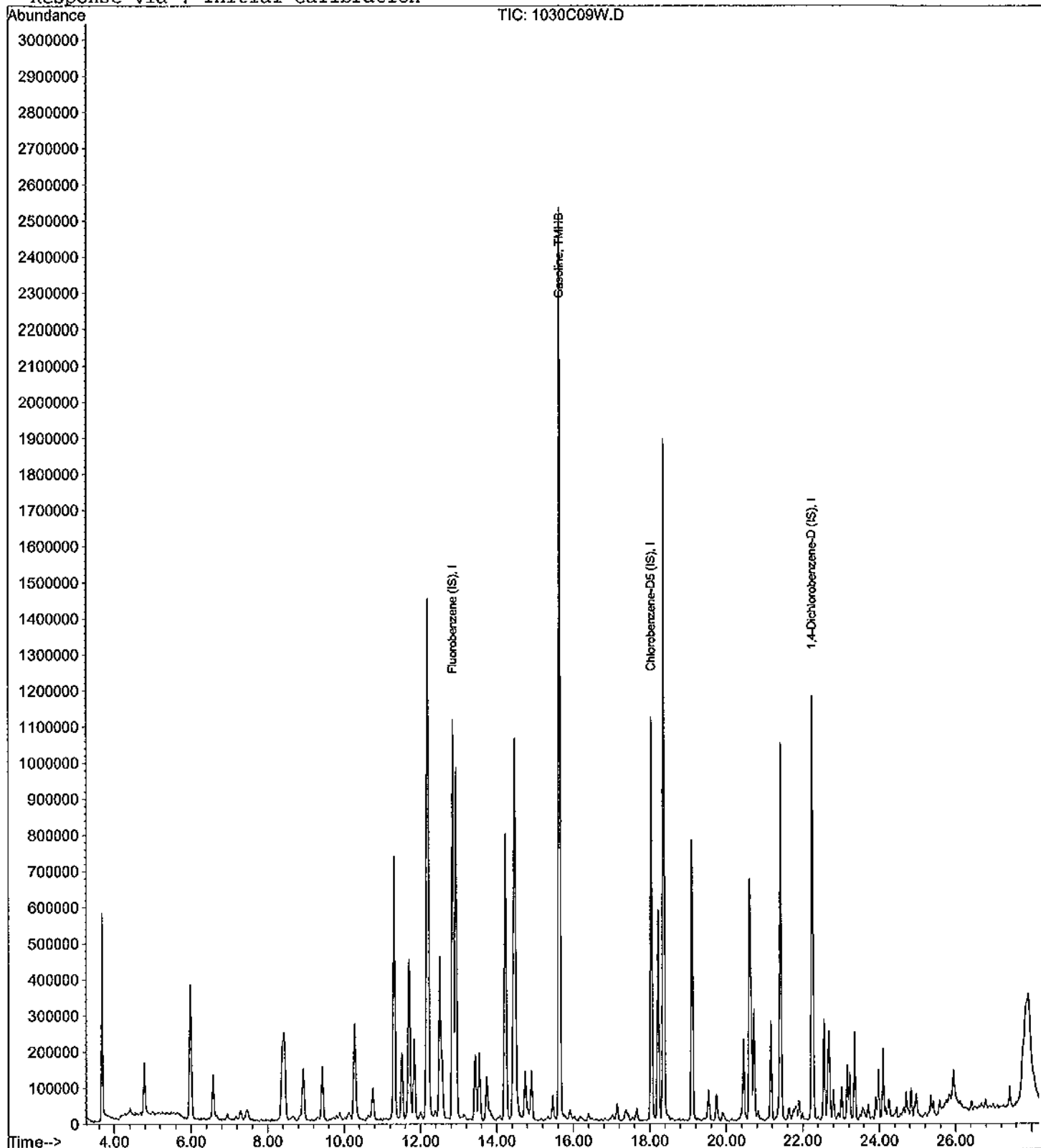
Data File : M:\CHICO\DATA\C111030\1030C09W.D
Acq On : 30 Oct 11 19:09
Sample : Vol Std 10-30-11@600ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 9:41 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C10W.D Vial: 1
 Acq On : 30 Oct 11 19:52 Operator: STC
 Sample : Vol Std 10-30-11@800ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 9:42 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:32:18 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	TIC	1129347	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.03	TIC	1159453	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.24	TIC	1268278	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	15.63	TIC	84666447m	330.10723	ppb	100

Quantitation Report

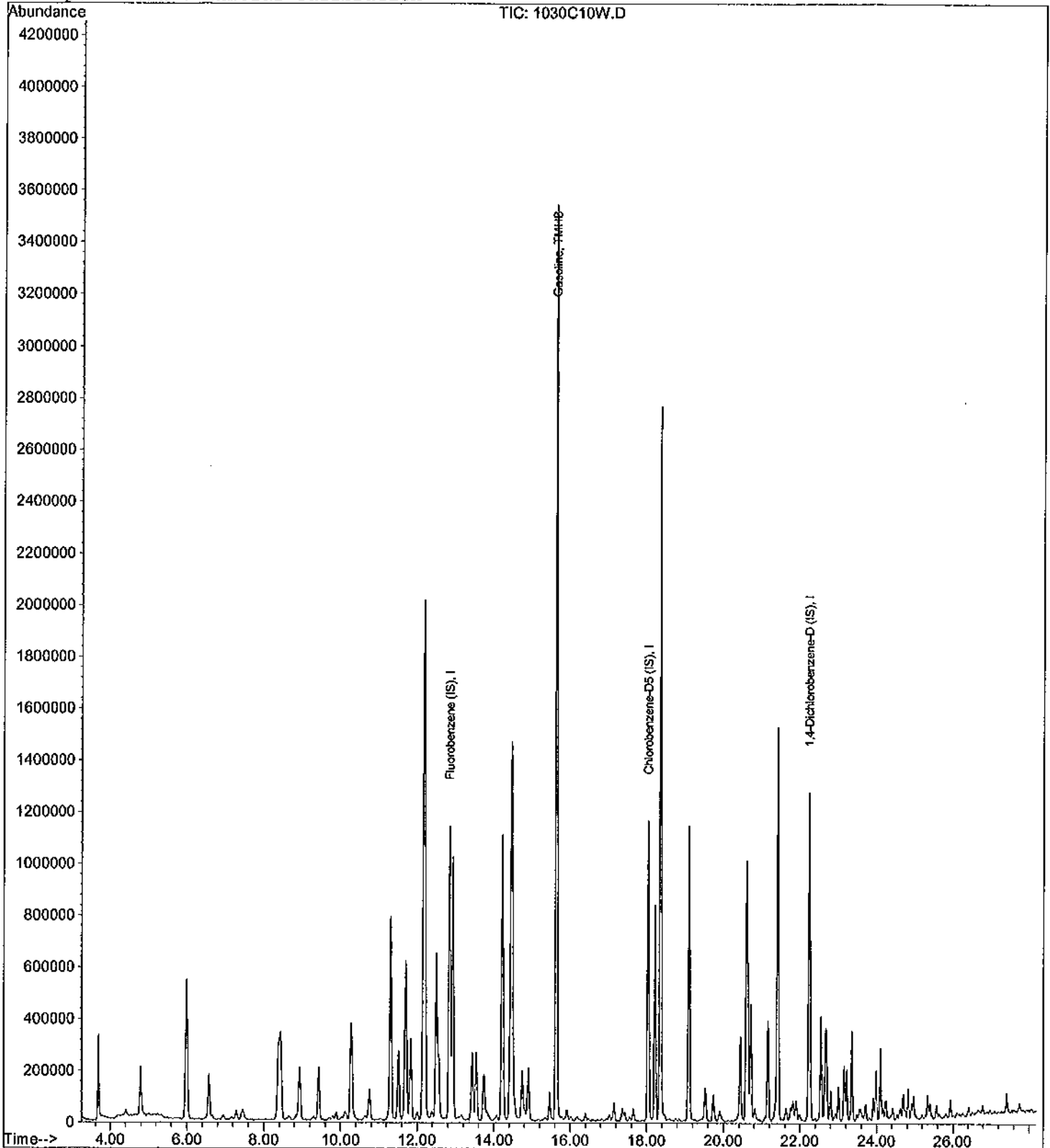
Data File : M:\CHICO\DATA\C111030\1030C10W.D
Acq On : 30 Oct 11 19:52
Sample : Vol Std 10-30-11@800ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 9:42 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C11W.D Vial: 1
 Acq On : 30 Oct 11 20:35 Operator: STC
 Sample : Vol Std 10-30-11@1000ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 3 9:43 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Mon Oct 31 09:32:18 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene (IS)	12.84	TIC	1162372	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.03	TIC	1207961	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.24	TIC	1354742	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	15.63	TIC	105748641m	400.59060	ppb	100

Quantitation Report

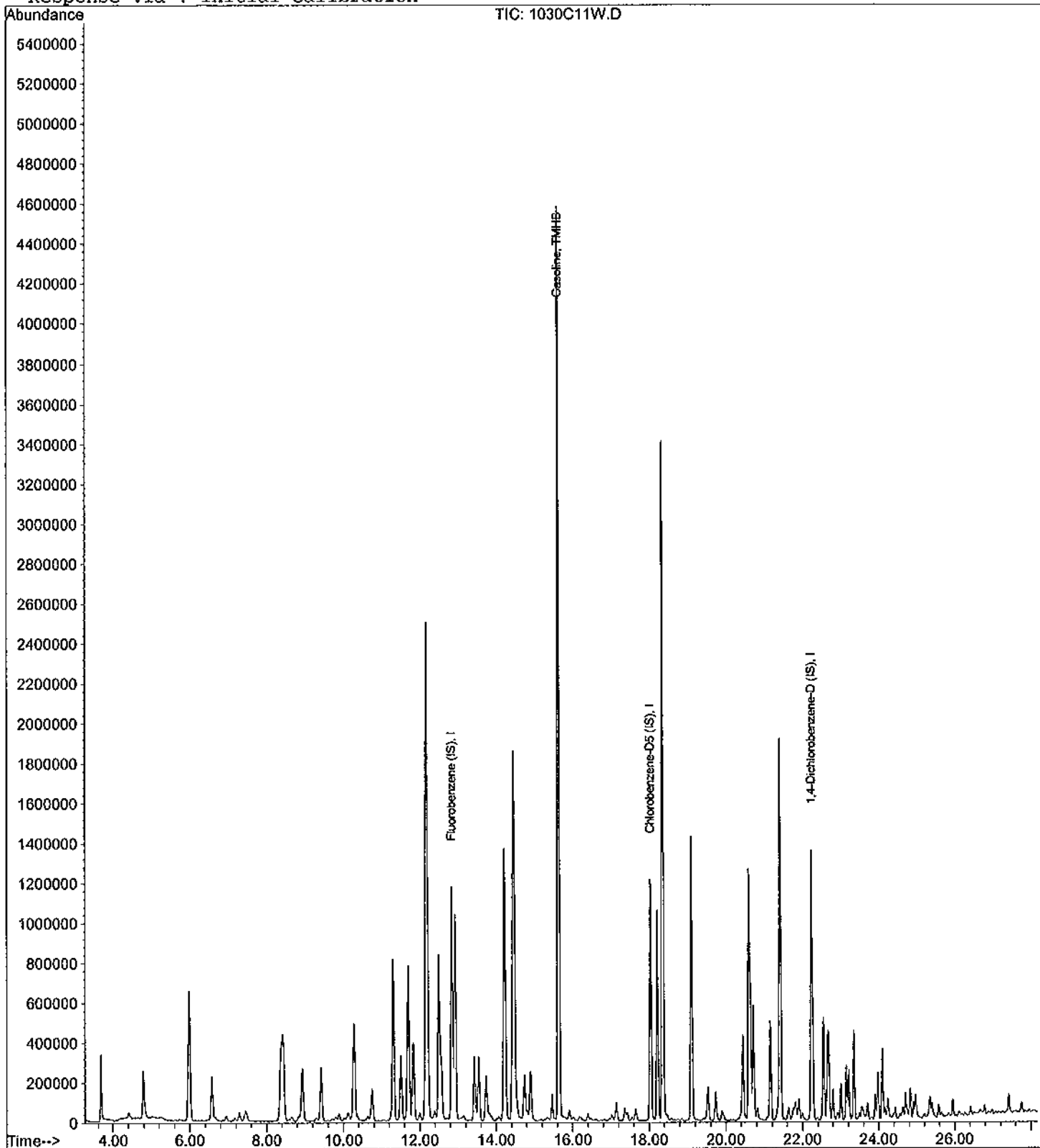
Data File : M:\CHICO\DATA\C111030\1030C11W.D
Acq On : 30 Oct 11 20:35
Sample : Vol Std 10-30-11@1000ug/L
Misc : Water 10mLw/ IS:10-30-11

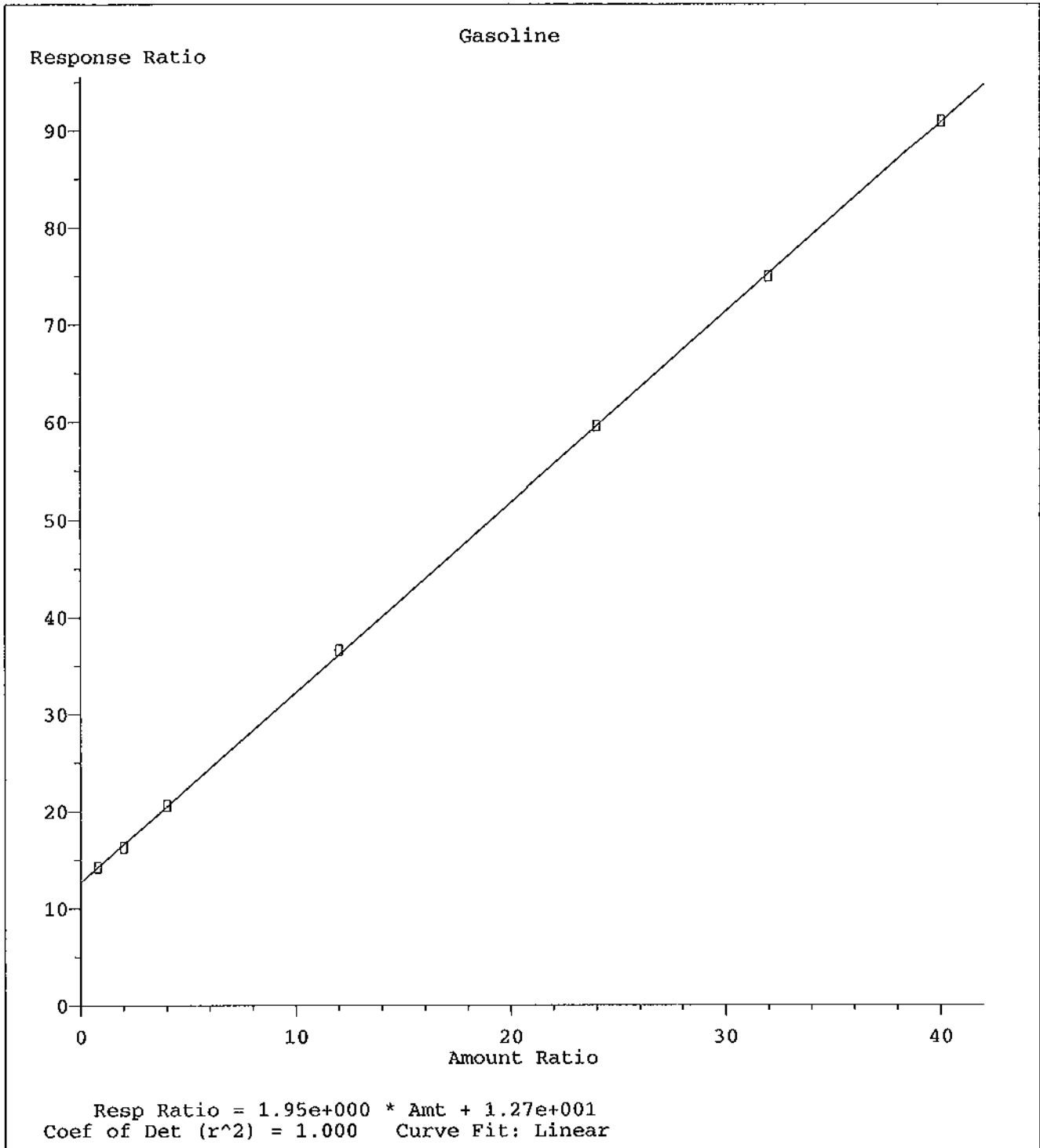
Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 9:43 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration





Method Name: M:\CHICO\DATA\C111030\CGAS.M
Calibration Table Last Updated: Thu Nov 03 10:47:02 2011

VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Second Source Calibration

Lab Name: APPL, Inc. _____

SDG No: 66186 _____

Case No: _____

Date Analyzed: 10/31/11 _____

Matrix: _____

Instrument: Chico _____

Initial Cal. Date: 10/30/11 _____

Data File: 1030C29W.D _____

	Compound	MEAN	CCRF	%D	%Drift
1	Fluorobenzene (IS)	ISTD			
2	TMHB Gasoline	5.897	3.226	45	TMHBL 11
3	Chlorobenzene-D5 (IS)	ISTD			
4	1,4-Dichlorobenzene-D (IS)	ISTD			
5					
6					
7					
8					
9					
10					
11					
12					
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32					
33					
34					
35					
36					
37					
38					
39					
40	Average			45.0	

Data File : M:\CHICO\DATA\C111030\1030C29W.D Vial: 1
 Acq On : 31 Oct 11 9:31 Operator: STC
 Sample : GAS 300ug/L (SS) Inst : Chico
 Misc : Water 10mLw/ IS&S:10-30/10-26-11 Multiplr: 1.00

Quant Time: Nov 3 9:51 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Initial Calibration
 DataAcq Meth : V8260

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.84	TIC	1211423	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.03	TIC	1191079	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.24	TIC	1217266	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	15.63	TIC	46900368m	332.66187	ppb	100

Quantitation Report

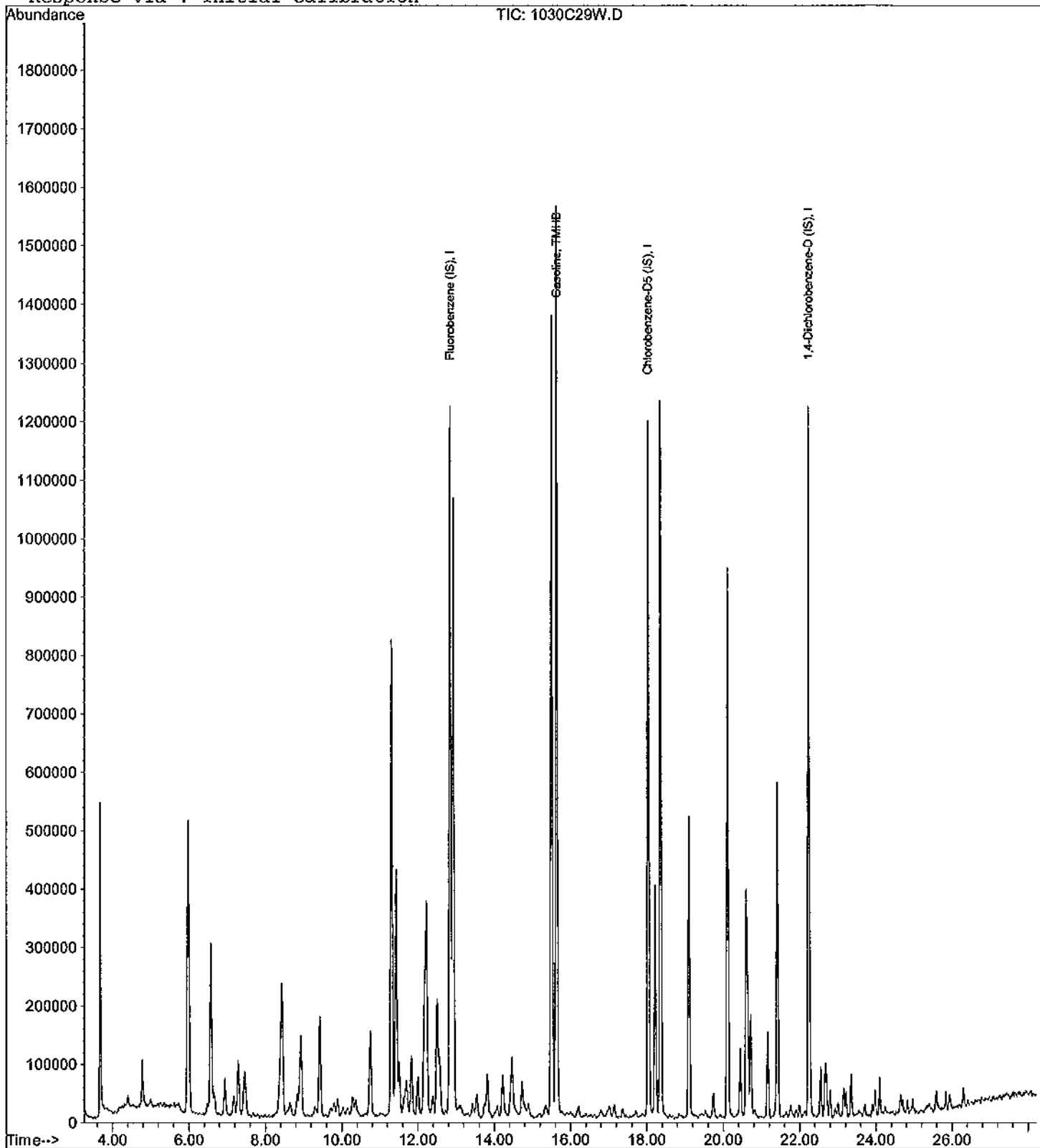
Data File : M:\CHICO\DATA\C111030\1030C29W.D
Acq On : 31 Oct 11 9:31
Sample : GAS 300ug/L (SS)
Misc : Water 10mLw/ IS&S:10-30/10-26-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 3 9:51 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



VOLATILE ORGANIC ANALYSIS BY
EPA METHOD 8260B

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: 66186

Case No: _____

Date Analyzed: 5 Nov 11 14:11

Matrix: _____

Instrument: Chico

Initial Cal. Date: 11/04/11

Data File: 1105C05W.D

	Compound	MEAN	CCRF	%D	%Drift
1	| Fluorobenzene (IS)	ISTD			|
2	TMHB Gasoline	5.897	3.063	48	TMHBL 2.5
3	Chlorobenzene-D5 (IS)	ISTD			
4	1,4-Dichlorobenzene-D (IS)	ISTD			
5					
6					
7					
8					
9					
10					
11					
12					
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33					
34					
35					
36					
37					
38					
39					
40	Average			48.0	

Data File : M:\CHICO\DATA\C111104\1105C05W.D Vial: 1
 Acq On : 5 Nov 11 14:11 Operator: STC
 Sample : Gas CCV 11-05-11@300ug/L Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 5 14:41 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1284529	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.04	TIC	1273277	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.25	TIC	1316872	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	15.64	TIC	47212524m	307.58180	ppb	100

Quantitation Report

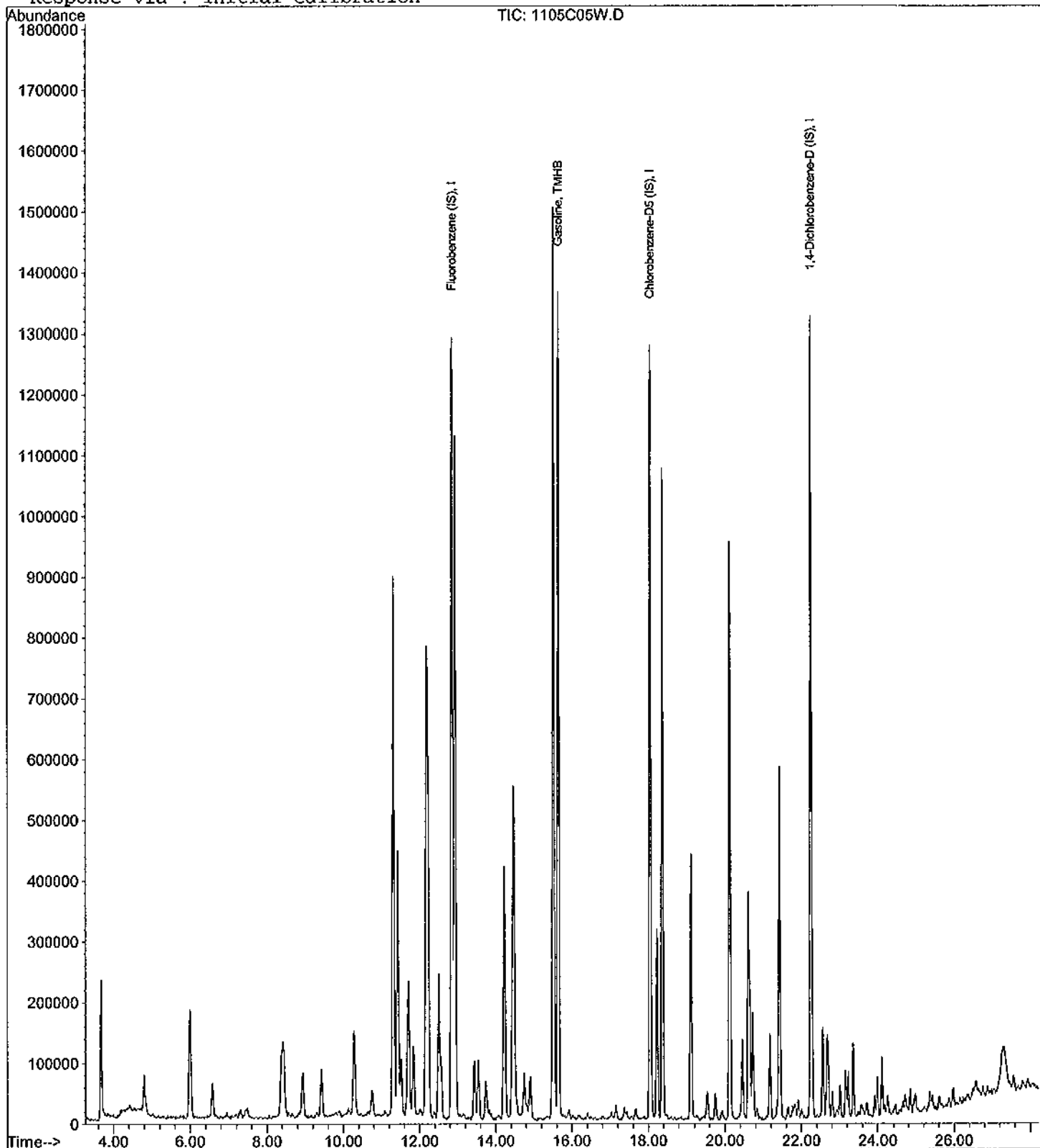
Data File : M:\CHICO\DATA\C111104\1105C05W.D
Acq On : 5 Nov 11 14:11
Sample : Gas CCV 11-05-11@300ug/L
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 5 14:41 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



**EPA METHOD 8260B
Volatile Organic Compounds
Raw Data**

Method Blank

EPA 8260B VOCs + Gas Water

Blank Name/QCG: 111105W-50004 - 160965
 Batch ID: #86RHB-111105AC

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	1,1,1,2-TETRACHLOROETHANE	0.26 U	1.0	0.26	0.13	ug/L	11/05/11	11/05/11
BLANK	1,1,1-TRICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
BLANK	1,1,2,2-TETRACHLOROETHANE	0.20 U	1.0	0.20	0.10	ug/L	11/05/11	11/05/11
BLANK	1,1,2-TRICHLOROETHANE	0.40 U	1.0	0.40	0.20	ug/L	11/05/11	11/05/11
BLANK	1,1-DICHLOROETHANE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
BLANK	1,1-DICHLOROETHENE	0.60 U	1.0	0.60	0.30	ug/L	11/05/11	11/05/11
BLANK	1,2,3-TRICHLOROPROPANE	0.78 U	2.0	0.78	0.39	ug/L	11/05/11	11/05/11
BLANK	1,2,4-TRICHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	11/05/11	11/05/11
BLANK	1,2-DIBROMO-3-CHLOROPROPA	1.52 U	2.0	1.52	0.76	ug/L	11/05/11	11/05/11
BLANK	1,2-DIBROMOETHANE	0.40 U	1.0	0.40	0.20	ug/L	11/05/11	11/05/11
BLANK	1,2-DICHLOROBENZENE	0.34 U	1.0	0.34	0.17	ug/L	11/05/11	11/05/11
BLANK	1,2-DICHLOROETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
BLANK	1,2-DICHLOROPROPANE	0.34 U	1.0	0.34	0.17	ug/L	11/05/11	11/05/11
BLANK	1,3-DICHLOROBENZENE	0.22 U	1.0	0.22	0.11	ug/L	11/05/11	11/05/11
BLANK	1,3-DICHLOROPROPENE, TOTA	0.36 U	1.0	0.36	0.18	ug/L	11/05/11	11/05/11
BLANK	1,4-DICHLOROBENZENE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
BLANK	2-BUTANONE	1.20 U	10.0	1.20	0.60	ug/L	11/05/11	11/05/11
BLANK	4-METHYL-2-PENTANONE	3.80 U	10.0	3.80	1.90	ug/L	11/05/11	11/05/11
BLANK	ACETONE	1.90 U	10.0	1.90	0.95	ug/L	11/05/11	11/05/11
BLANK	BENZENE	0.32 U	1.0	0.32	0.16	ug/L	11/05/11	11/05/11
BLANK	BROMODICHLOROMETHANE	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
BLANK	BROMOFORM	0.28 U	1.0	0.28	0.14	ug/L	11/05/11	11/05/11
BLANK	BROMOMETHANE	0.48 U	2.0	0.48	0.24	ug/L	11/05/11	11/05/11
BLANK	CARBON TETRACHLORIDE	0.20 U	1.0	0.20	0.10	ug/L	11/05/11	11/05/11
BLANK	CHLOROBENZENE	0.42 U	1.0	0.42	0.21	ug/L	11/05/11	11/05/11
BLANK	CHLORODIBROMOMETHANE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
BLANK	CHLOROETHANE	0.42 U	1.0	0.42	0.21	ug/L	11/05/11	11/05/11
BLANK	CHLOROFORM	0.14 U	1.0	0.14	0.07	ug/L	11/05/11	11/05/11
BLANK	CHLOROMETHANE	0.84 U	1.0	0.84	0.42	ug/L	11/05/11	11/05/11
BLANK	CIS-1,2-DICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	11/05/11	11/05/11
BLANK	ETHYLBENZENE	0.46 U	1.0	0.46	0.23	ug/L	11/05/11	11/05/11
BLANK	GASOLINE	12.12 U	20.0	12.12	6.06	ug/L	11/05/11	11/05/11
BLANK	HEXACHLOROBUTADIENE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
BLANK	METHYL TERT-BUTYL ETHER	0.52 U	1.0	0.52	0.26	ug/L	11/05/11	11/05/11

Quant Method: CALLW.M
 Run #: 1105C09
 Instrument: Chico
 Sequence: C111104
 Initials: DG

Method Blank
EPA 8260B VOCs + Gas Water

Blank Name/QCG: 111105W-50004 - 160965
Batch ID: #86RHB-111105AC

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	METHYLENE CHLORIDE	0.70 U	5.0	0.70	0.35	ug/L	11/05/11	11/05/11
BLANK	STYRENE	0.50 U	1.0	0.50	0.25	ug/L	11/05/11	11/05/11
BLANK	TETRACHLOROETHENE	0.48 U	1.0	0.48	0.24	ug/L	11/05/11	11/05/11
BLANK	TOLUENE	0.34 U	1.0	0.34	0.17	ug/L	11/05/11	11/05/11
BLANK	TRANS-1,2-DICHLOROETHENE	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
BLANK	TRICHLOROETHENE	0.32 U	1.0	0.32	0.16	ug/L	11/05/11	11/05/11
BLANK	VINYL CHLORIDE	0.46 U	1.0	0.46	0.23	ug/L	11/05/11	11/05/11
BLANK	XYLENES (TOTAL)	0.38 U	1.0	0.38	0.19	ug/L	11/05/11	11/05/11
BLANK	SURROGATE: 1,2-DICHLOROET	87.0	70-120			%	11/05/11	11/05/11
BLANK	SURROGATE: 4-BROMOFLUOR	96.5	75-120			%	11/05/11	11/05/11
BLANK	SURROGATE: DIBROMOFLUOR	90.3	85-115			%	11/05/11	11/05/11
BLANK	SURROGATE: TOLUENE-D8 (S)	93.8	85-120			%	11/05/11	11/05/11

Quant Method: CALLW.M
Run #: 1105C09
Instrument: Chico
Sequence: C111104
Initials: DG

GC SC-Blank-REG MDLs
Printed: 12/08/11 4:17:47 PM

Data File : M:\CHICO\DATA\C111104\1105C09W.D Vial: 1
 Acq On : 5 Nov 11 17:04 Operator: STC
 Sample : 111105A BLK-1WC Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:18 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	96	639936	25.00000	ppb	-0.03
55) Chlorobenzene-D5 (IS)	18.05	117	438336	25.00000	ppb	-0.02
71) 1,4-Dichlorobenzene-D (IS)	22.25	152	229504	25.00000	ppb	-0.03
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.44	111	423902	19.04793	ppb	-0.03
Spiked Amount	21.097		Recovery	=	90.287%	
38) 1,2-DCA-D4(S)	12.24	65	359754	18.47170	ppb	-0.03
Spiked Amount	21.225		Recovery	=	87.028%	
56) Toluene-D8(S)	15.52	98	1563511	24.21108	ppb	-0.03
Spiked Amount	25.808		Recovery	=	93.811%	
64) 4-Bromofluorobenzene(S)	20.12	95	559686	24.56931	ppb	-0.03
Spiked Amount	25.459		Recovery	=	96.502%	

Target Compounds Qvalue

Quantitation Report

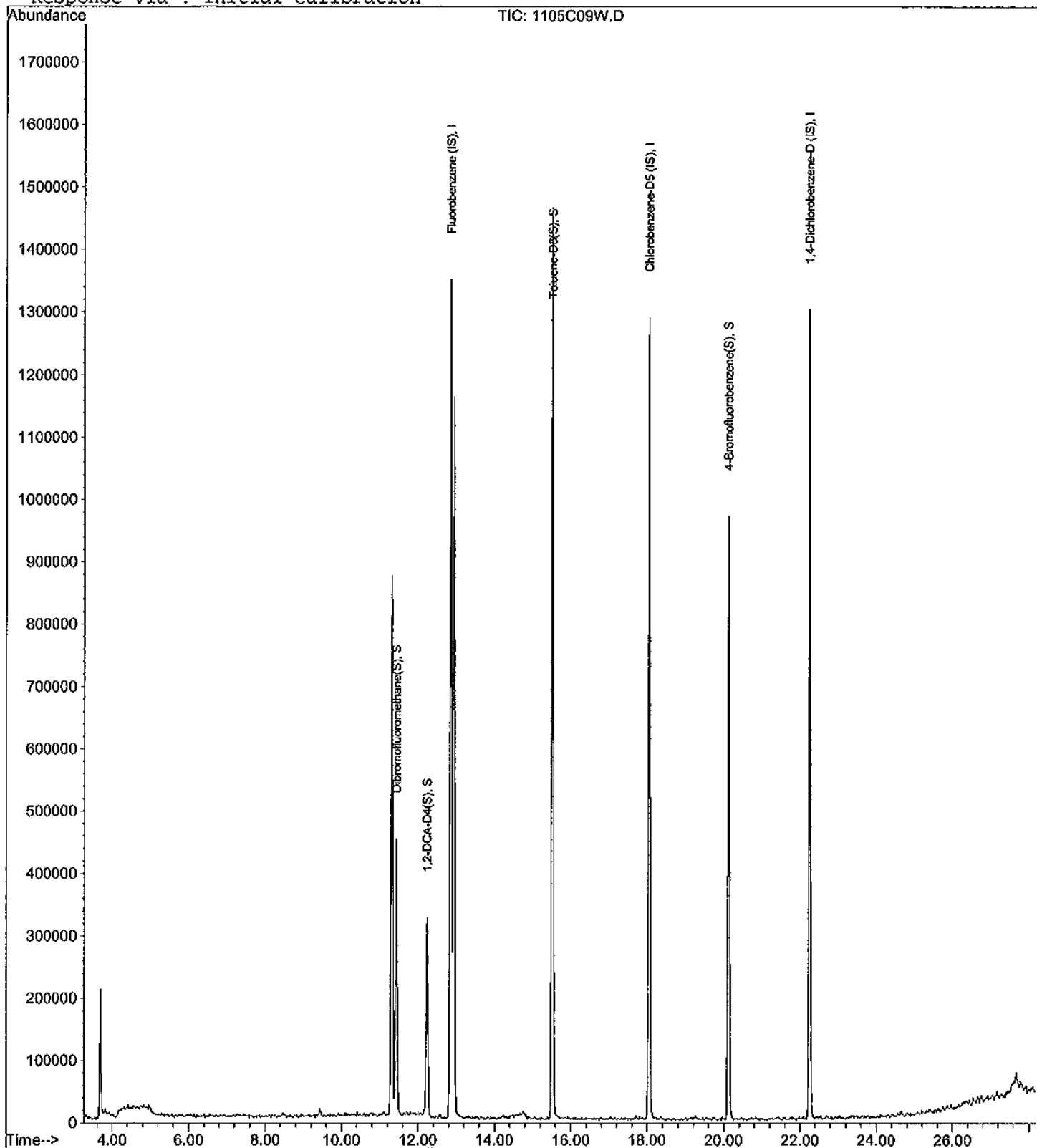
Data File : M:\CHICO\DATA\C111104\1105C09W.D
Acq On : 5 Nov 11 17:04
Sample : 111105A BLK-1WC
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 8 16:18 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111104\1105C09W.D Vial: 1
 Acq On : 5 Nov 11 17:04 Operator: STC
 Sample : 111105A BLK-1WC Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 16:44 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1344857	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.05	TIC	1284528	25.00000	ppb	0.02
4) 1,4-Dichlorobenzene-D (IS)	22.25	TIC	1297788	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

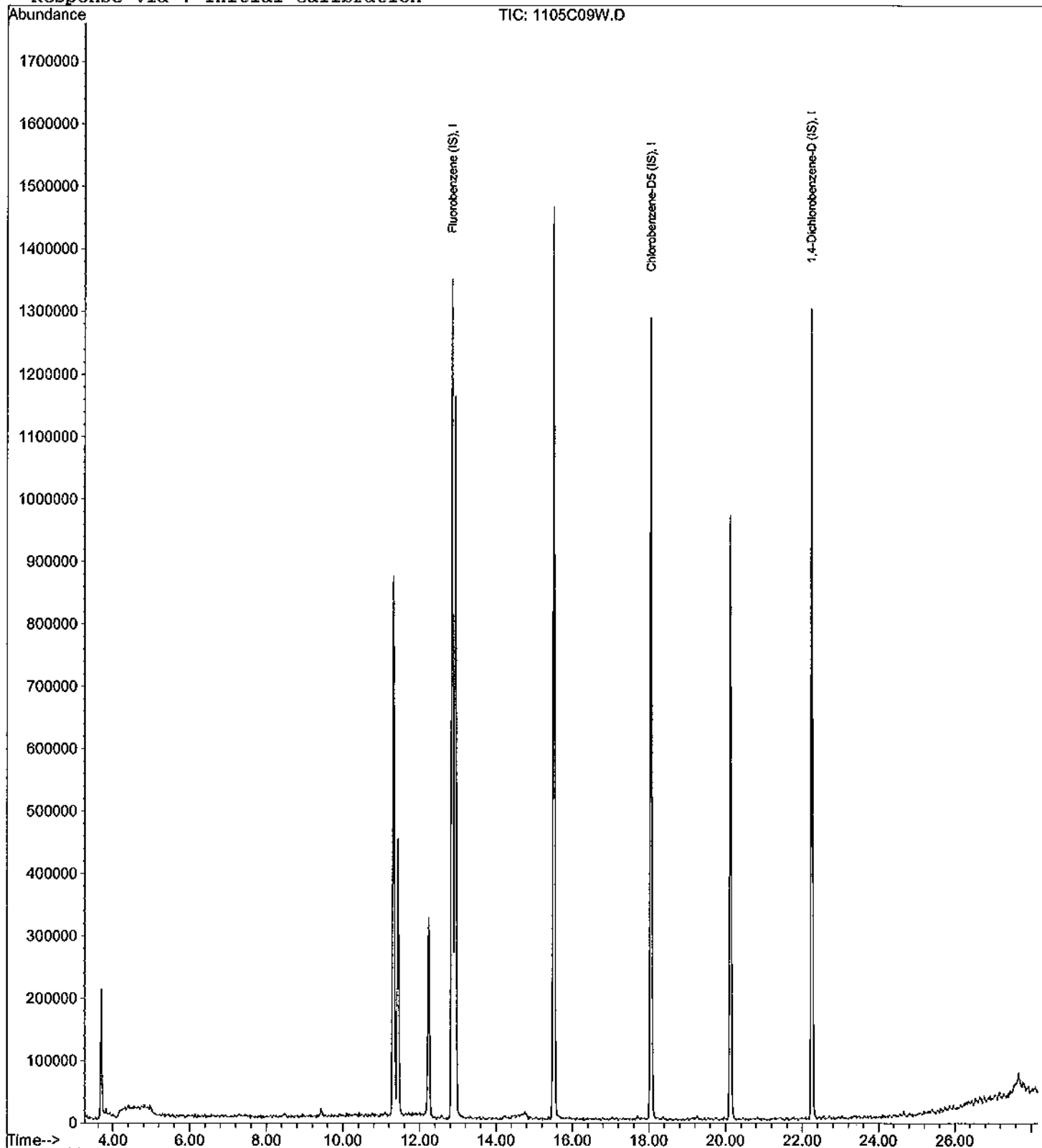
Data File : M:\CHICO\DATA\C111104\1105C09W.D
Acq On : 5 Nov 11 17:04
Sample : 111105A BLK-1WC
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 8 16:44 2011

Quant Results File: CGAS.RES

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Laboratory Control Spike Recovery

EPA 8260B VOCs + Gas Water

APPL ID: 111105W-50004 LCS - 160965

Batch ID: #86RHB-111105AC

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
1,1,1,2-TETRACHLOROETHANE	10.00	9.01	90.1	80-130
1,1,1-TRICHLOROETHANE	10.00	8.38	83.8	65-130
1,1,2,2-TETRACHLOROETHANE	10.00	10.2	102	65-130
1,1,2-TRICHLOROETHANE	10.00	9.78	97.8	75-125
1,1-DICHLOROETHANE	10.00	10.5	105	70-135
1,1-DICHLOROETHENE	10.00	9.57	95.7	70-130
1,2,3-TRICHLOROPROPANE	10.00	8.50	85.0	75-125
1,2,4-TRICHLOROBENZENE	10.00	9.38	93.8	65-135
1,2-DIBROMO-3-CHLOROPROPANE	10.00	8.45	84.5	50-130
1,2-DIBROMOETHANE	10.00	8.37	83.7	70-130
1,2-DICHLOROBENZENE	10.00	9.72	97.2	70-120
1,2-DICHLOROETHANE	10.00	8.20	82.0	70-130
1,2-DICHLOROPROPANE	10.00	11.6	116	75-125
1,3-DICHLOROBENZENE	10.00	9.98	99.8	75-125
1,3-DICHLOROPROPENE, TOTAL	20.0	20.3	102	70-130
1,4-DICHLOROBENZENE	10.00	10.1	101	75-125
2-BUTANONE	10.00	9.57	95.7	30-150
4-METHYL-2-PENTANONE	10.00	10.7	107	60-135
ACETONE	10.00	10.8	108	40-140
BENZENE	10.00	11.0	110	80-120
BROMODICHLOROMETHANE	10.00	8.69	86.9	75-120
BROMOFORM	10.00	7.75	77.5	70-130
BROMOMETHANE	10.00	9.21	92.1	30-145
CARBON TETRACHLORIDE	10.00	8.10	81.0	65-140
CHLOROBENZENE	10.00	9.18	91.8	80-120
CHLORODIBROMOMETHANE	10.00	8.29	82.9	60-135

Comments:

<u>Primary</u>	<u>SPK</u>
Quant Method :	CALLW.M
Extraction Date :	11/05/11
Analysis Date :	11/05/11
Instrument :	Chico
Run :	1105C03
Initials :	DG

Printed: 12/08/11 4:17:51 PM

APPL Standard LCS

Laboratory Control Spike Recovery
EPA 8260B VOCs + Gas Water

APPL ID: 111105W-50004 LCS - 160965
 Batch ID: #86RHB-111105AC

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits
CHLOROETHANE	10.00	11.7	117	60-135
CHLOROFORM	10.00	9.27	92.7	65-135
CHLOROMETHANE	10.00	9.41	94.1	40-125
CIS-1,2-DICHLOROETHENE	10.00	9.24	92.4	70-125
ETHYLBENZENE	10.00	9.72	97.2	75-125
GASOLINE	300	285	95.0	75-125
HEXACHLOROBUTADIENE	10.00	8.51	85.1	50-140
METHYL TERT-BUTYL ETHER	10.00	9.18	91.8	65-125
METHYLENE CHLORIDE	10.00	9.48	94.8	55-140
STYRENE	10.00	9.74	97.4	65-135
TETRACHLOROETHENE	10.00	8.71	87.1	45-150
TOLUENE	10.00	10.0	100	75-120
TRANS-1,2-DICHLOROETHENE	10.00	9.57	95.7	60-140
TRICHLOROETHENE	10.00	9.37	93.7	70-125
VINYL CHLORIDE	10.00	9.11	91.1	50-145
XYLENES (TOTAL)	30.0	29.1	97.0	80-120

SURROGATE: 1,2-DICHLOROETHANE-	21.2	19.2	90.5	70-120
SURROGATE: 4-BROMOFLUOROBENZ	25.5	25.0	98.2	75-120
SURROGATE: DIBROMOFLUOROMETH	21.1	20.7	98.1	85-115
SURROGATE: TOLUENE-D8 (S)	25.8	24.0	93.0	85-120

Comments:

<u>Primary</u>	<u>SPK</u>
Quant Method :	CALLW.M
Extraction Date :	11/05/11
Analysis Date :	11/05/11
Instrument :	Chico
Run :	1105C03
Initials :	DG

Printed: 12/08/11 4:17:51 PM

APPL Standard LCS

Data File : M:\CHICO\DATA\C111104\1105C03W.D Vial: 1
 Acq On : 5 Nov 11 12:45 Operator: STC
 Sample : 111105A LCS-1WC Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 15:57 2011

Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	96	598784	25.00000	ppb	-0.03
55) Chlorobenzene-D5 (IS)	18.04	117	432320	25.00000	ppb	-0.03
71) 1,4-Dichlorobenzene-D (IS)	22.25	152	227456	25.00000	ppb	-0.03
System Monitoring Compounds						
33) Dibromofluoromethane(S)	11.43	111	430194	20.65917	ppb	-0.04
Spiked Amount	21.097		Recovery	=	97.923%	
38) 1,2-DCA-D4(S)	12.23	65	350461	19.23124	ppb	-0.04
Spiked Amount	21.225		Recovery	=	90.604%	
56) Toluene-D8(S)	15.51	98	1526114	23.96084	ppb	-0.04
Spiked Amount	25.808		Recovery	=	92.842%	
64) 4-Bromofluorobenzene(S)	20.12	95	561629	24.99769	ppb	-0.03
Spiked Amount	25.459		Recovery	=	98.187%	
Target Compounds						
2) Dichlorodifluoromethane	4.07	85	200438	9.99987	ppb	Qvalue 96
3) Freon 114	4.34	85	158173	9.55662	ppb	98
4) Chloromethane	4.56	50	243905	9.40526	ppb	99
5) Vinyl chloride	4.82	62	190389	9.10909	ppb	97
7) Bromomethane	5.73	94	115295	9.20690	ppb	95
8) Chloroethane	5.92	64	40768	11.73721	ppb	# 80
9) Dichlorofluoromethane	6.01	67	429753	9.98151	ppb	97
10) Trichlorofluoromethane	6.54	101	254008	8.80144	ppb	91
11) Acetonitrile	7.66	41	91825	175.24271	ug/l	100
12) Acrolein	7.15	56	36334	143.31047	ppb	98
13) Acetone	7.28	43	21380	10.76822	ppb	# 59
14) Freon-113	7.47	101	158655	9.98674	ppb	92
15) 1,1-DCE	7.69	96	158725	9.57124	ppb	97
16) t-Butanol	7.77	59	12156	152.90240	ppb	96
17) Methyl Acetate	8.19	43	49077	10.64799	ppb	96
18) Iodomethane	8.17	142	116518	9.85367	ppb	93
19) Acrylonitrile	8.57	53	19799	11.15999	ppb	88
20) Methylene chloride	8.48	84	151276	9.47889	ppb	100
21) Carbon disulfide	8.56	76	141888	10.36460	ppb	98
22) Methyl t-butyl ether (MtBE)	8.90	73	247260	9.17675	ppb	# 95
23) Trans-1,2-DCE	7.69	96	158725	9.57124	ppb	98
24) Diisopropyl Ether	9.76	45	555595	11.30937	ppb	96
25) 1,1-DCA	9.79	63	359912	10.45575	ppb	91
26) Vinyl Acetate	9.42	43	35752	13.13393	ppb	# 75
27) Ethyl tert Butyl Ether	10.45	59	406811	9.78909	ppb	96
28) MEK (2-Butanone)	10.44	43	74398	9.56633	ppb	94
29) Cis-1,2-DCE	10.82	96	197945	9.24498	ppb	94
30) 2,2-Dichloropropane	10.82	77	291298	9.16027	ppb	# 88
31) Chloroform	11.10	83	337951	9.27140	ppb	98
32) Bromochloromethane	11.32	128	54373	8.41905	ppb	89
34) 1,1,1-TCA	11.84	97	296442	8.37880	ppb	93
35) Cyclohexane	12.00	56	280256	12.28389	ppb	80
36) 1,1-Dichloropropene	12.11	75	258971	10.18438	ppb	99
37) 2,2,4-Trimethylpentane	12.18	57	486067	12.87742	ppb	95
39) Carbon Tetrachloride	12.30	117	218797	8.09566	ppb	99
40) Tert Amyl Methyl Ether	12.35	73	289560	9.57527	ppb	100
41) 1,2-DCA	12.38	62	170145	8.20107	ppb	99
42) Benzene	12.50	78	712677	11.01300	ppb	99
43) TCE	13.54	95	191886	9.36801	ppb	92

(#) = qualifier out of range (m) = manual integration
 1105C03W.D CALLW.M Thu Dec 08 16:57:32 2011

Data File : M:\CHICO\DATA\C111104\1105C03W.D Vial: 1
 Acq On : 5 Nov 11 12:45 Operator: STC
 Sample : 111105A LCS-1WC Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 8 15:57 2011 Quant Results File: CALLW.RES

Quant Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260
 Last Update : Tue Nov 08 15:56:36 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) 2-Pentanone	13.21	43	535634	145.94194	ppb	99
45) 1,2-Dichloropropane	13.78	63	171253	11.60017	ppb #	95
46) Bromodichloromethane	14.12	83	193300	8.69474	ppb	95
47) Methyl Cyclohexane	13.83	83	247837	11.70998	ppb	95
48) Dibromomethane	14.18	93	68528	8.83931	ppb	97
49) 2-Chloroethyl vinyl ether	14.58	63	39880	10.37045	ppb #	84
50) 1-Bromo-2-chloroethane	14.89	63	146260	11.30967	ppb	89
51) Cis-1,3-Dichloropropene	15.01	75	191769	10.53614	ppb	89
52) Toluene	15.64	91	688147	10.02377	ppb	99
53) Trans-1,3-Dichloropropene	15.81	75	134829	9.74766	ppb	97
54) 1,1,2-TCA	16.09	83	66730	9.78017	ppb	98
57) 1,2-EDB	17.34	107	76932	8.36685	ppb #	99
58) Tetrachloroethene	16.79	164	190918	8.71224	ppb	93
59) 1-Chlorohexane	17.71	91	255927	10.91894	ppb	95
60) 1,1,1,2-Tetrachloroethane	18.17	131	146280	9.00947	ppb	98
61) m&p-Xylene	18.36	106	602678	19.21571	ppb	93
62) o-Xylene	19.12	106	295792	9.89628	ppb	97
63) Styrene	19.13	104	459874	9.73969	ppb	99
65) 2-Hexanone	16.11	43	35471	9.91956	ppb	88
66) 1,3-Dichloropropane	16.50	76	154497	10.25133	ppb	87
67) Dibromochloromethane	16.98	129	106362	8.28519	ppb	85
68) Chlorobenzene	18.11	112	430960	9.18487	ppb	91
69) Ethylbenzene	18.23	91	796342	9.71880	ppb	91
70) Bromoform	19.64	173	47964	7.75433	ppb	89
72) MIBK (methyl isobutyl keto)	14.68	43	56527	10.68044	ppb	99
73) Isopropylbenzene	19.75	105	787241	9.26886	ppb	93
74) 1,1,1,2-Tetrachloroethane	19.90	83	73576	10.18614	ppb	79
75) 1,2,3-Trichloropropane	20.16	110	8091	8.49890	ppb	88
76) t-1,4-Dichloro-2-Butene	20.24	53	16873	9.23840	ppb	85
77) Bromobenzene	20.49	156	173944	9.32463	ppb	97
78) n-Propylbenzene	20.45	91	954567	9.87354	ppb	98
79) 4-Ethyltoluene	20.64	105	640562	9.47176	ppb	96
80) 2-Chlorotoluene	20.74	91	628165	9.72679	ppb	94
81) 1,3,5-Trimethylbenzene	20.72	105	652161	9.24885	ppb	96
82) 4-Chlorotoluene	20.83	91	526794	9.28462	ppb	99
83) Tert-Butylbenzene	21.37	119	717774	9.58472	ppb	99
84) 1,2,4-Trimethylbenzene	21.43	105	659968	9.52832	ppb	96
85) Sec-Butylbenzene	21.77	105	909078	10.04542	ppb	95
86) p-Isopropyltoluene	22.00	119	758748	9.53590	ppb	98
87) Benzyl Chloride	22.43	91	135784	10.07162	ppb	98
88) 1,3-DCB	22.13	146	365632	9.97635	ppb	97
89) 1,4-DCB	22.31	146	346675	10.09669	ppb	95
90) Hexachloroethane	23.61	117	116005	8.26021	ppb	97
91) n-Butylbenzene	22.71	91	667118	9.95842	ppb	98
92) 1,2-DCB	22.94	146	294947	9.71950	ppb	95
93) 1,2-Dibromo-3-chloropropan	24.16	155	9302	8.45266	ppb #	64
94) 1,2,4-Trichlorobenzene	25.61	145	26360	9.37742	ppb	79
95) Hexachlorobutadiene	25.87	223	102054	8.50521	ppb	95
96) Naphthalene	25.98	128	277822	8.59934	ppb	100
97) 1,2,3-Trichlorobenzene	26.35	180	63720	7.96078	ppb	99

Quantitation Report

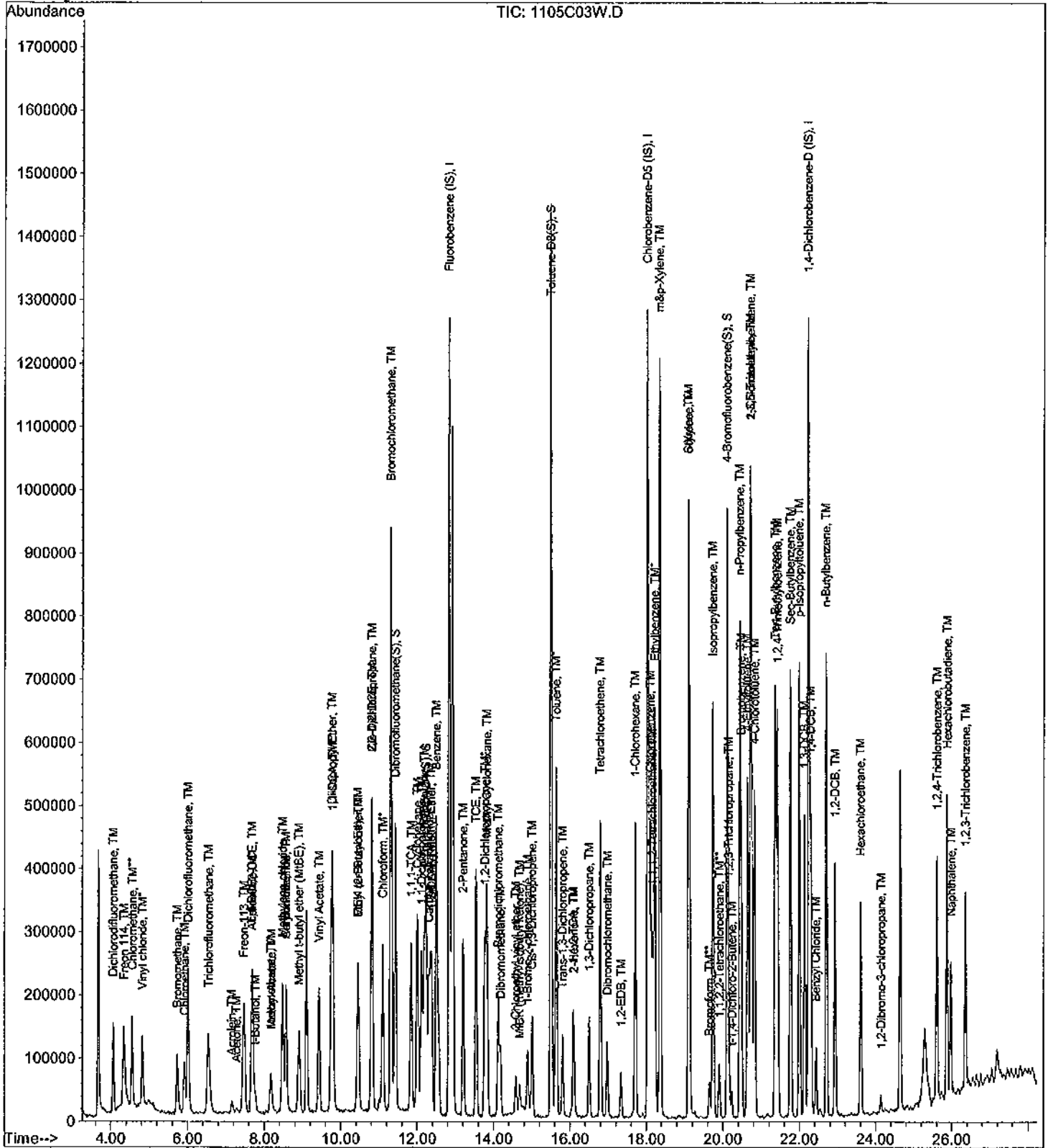
Data File : M:\CHICO\DATA\C111104\1105C03W.D
Acq On : 5 Nov 11 12:45
Sample : 111105A LCS-1WC
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 8 15:57 2011

Quant Results File: CALLW.RES

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
Title : METHOD 8260
Last Update : Tue Nov 08 15:56:36 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111104\1105C06W.D Vial: 1
 Acq On : 5 Nov 11 14:54 Operator: STC
 Sample : 111105A LCS-1WC (GAS) Inst : Chico
 Misc : Water 10mLw/ IS:10-30-11 Multiplr: 1.00

Quant Time: Nov 5 14:41 2011 Quant Results File: CGAS.RES

Quant Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B
 Last Update : Thu Nov 03 10:47:02 2011
 Response via : Initial Calibration
 DataAcq Meth : PC8260-1

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene (IS)	12.85	TIC	1341937	25.00000	ppb	0.00
3) Chlorobenzene-D5 (IS)	18.04	TIC	1285562	25.00000	ppb	0.00
4) 1,4-Dichlorobenzene-D (IS)	22.25	TIC	1316053	25.00000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Gasoline	15.64	TIC	46958625m	285.04507	ppb	100

Quantitation Report

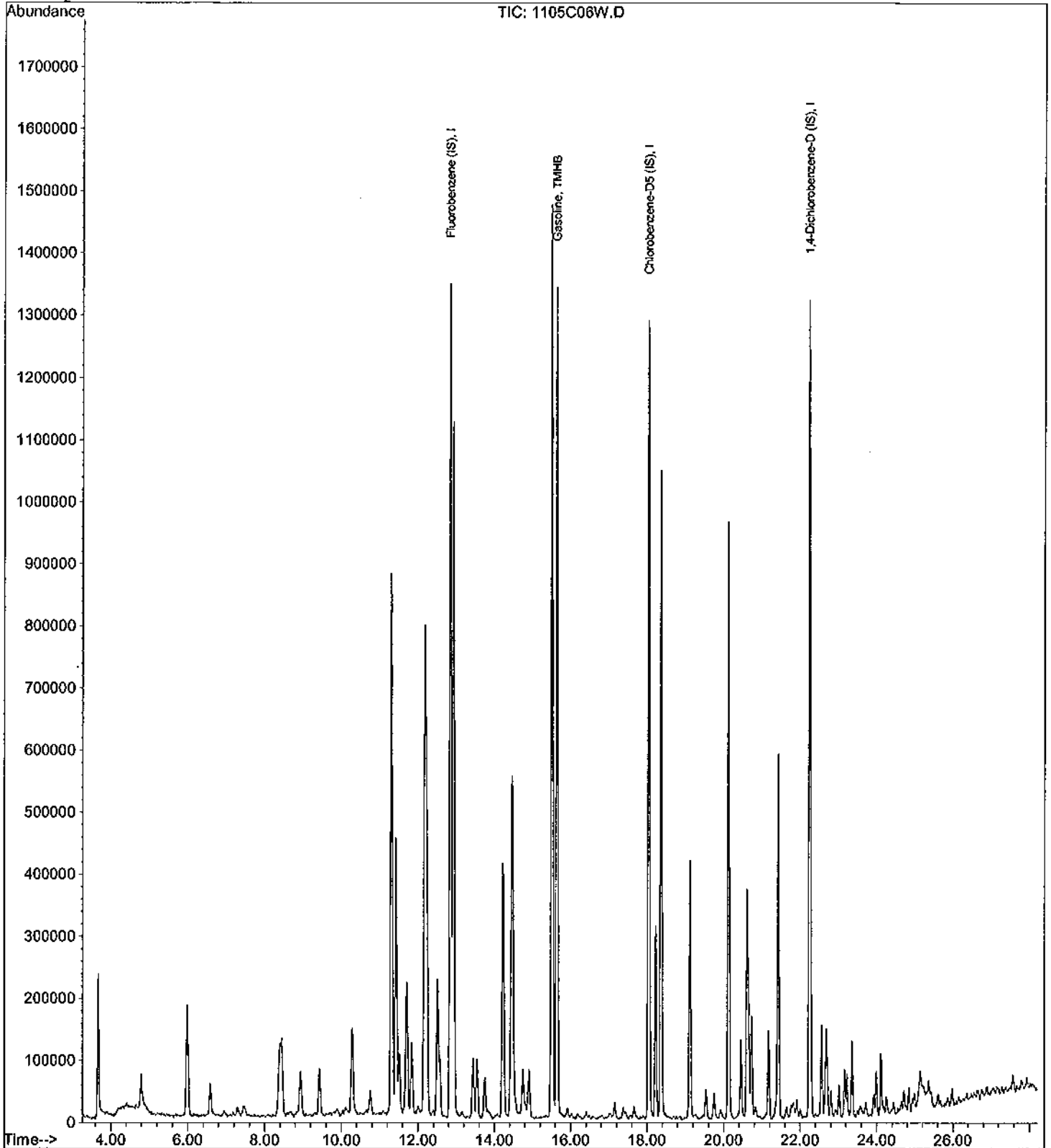
Data File : M:\CHICO\DATA\C111104\1105C06W.D
Acq On : 5 Nov 11 14:54
Sample : 111105A LCS-1WC (GAS)
Misc : Water 10mLw/ IS:10-30-11

Vial: 1
Operator: STC
Inst : Chico
Multiplr: 1.00

Quant Time: Nov 5 14:41 2011

Quant Results File: CGAS.RES

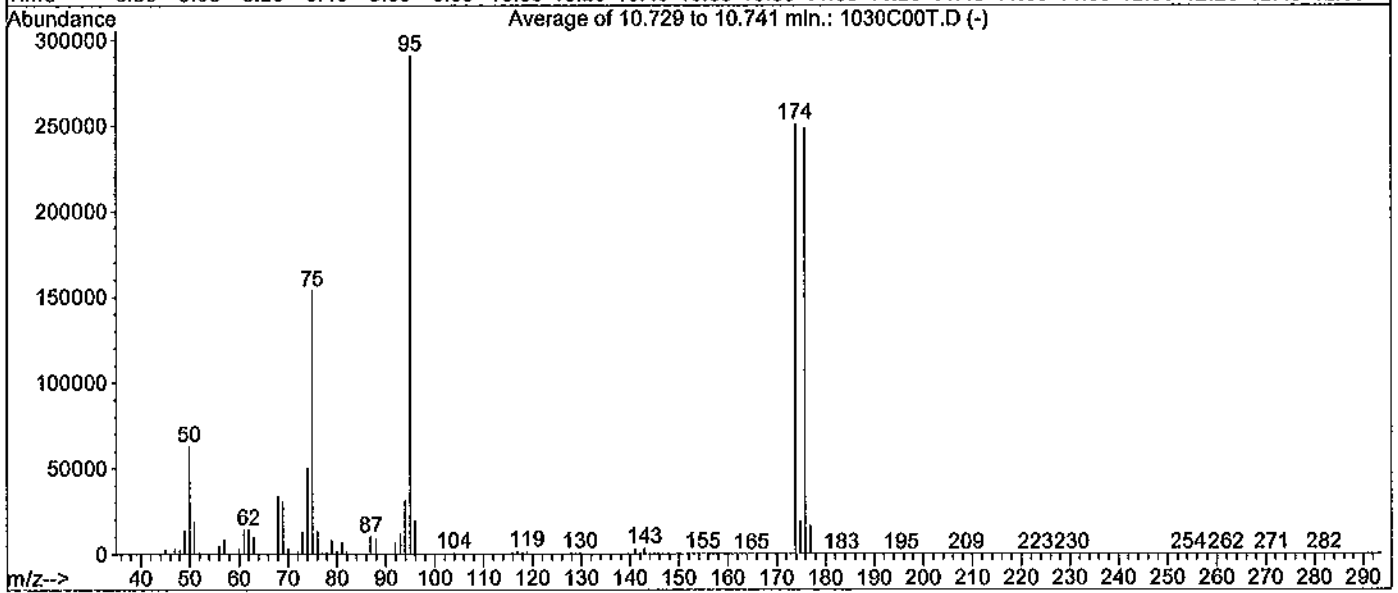
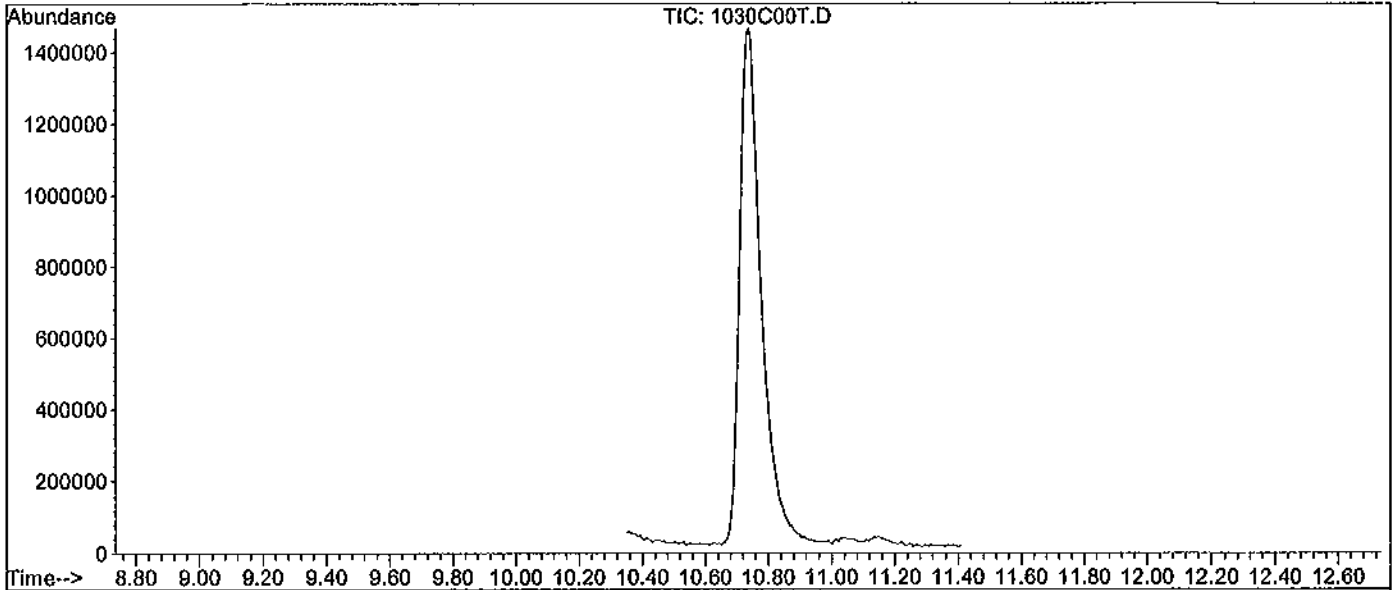
Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
Title : METHOD 8260B
Last Update : Thu Nov 03 10:47:02 2011
Response via : Initial Calibration



Data File : M:\CHICO\DATA\C111030\1030C00T.D
 Acq On : 30 Oct 11 12:52
 Sample : 20ug/mL BFB STD 10-19-11B
 Misc : 2ul

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B



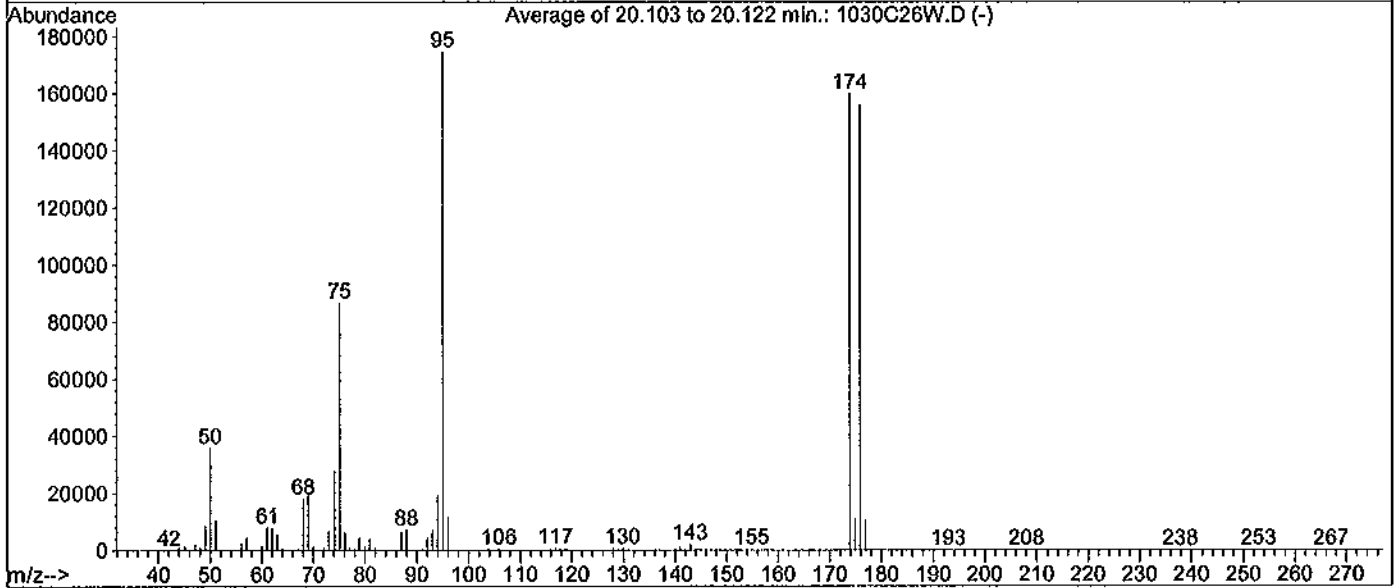
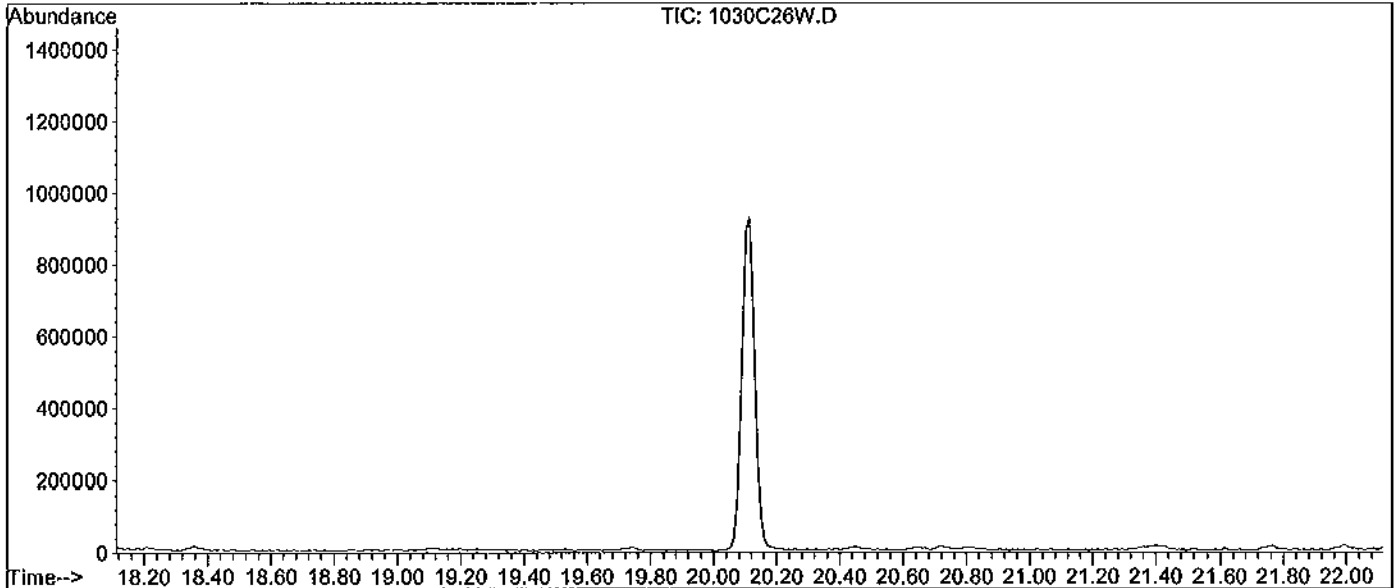
Spectrum Information: Average of 10.729 to 10.741 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	63088	PASS
75	95	30	60	52.9	153777	PASS
95	95	100	100	100.0	290880	PASS
96	95	5	9	6.8	19771	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	86.3	250924	PASS
175	174	5	9	7.5	18885	PASS
176	174	95	101	99.0	248405	PASS
177	176	5	9	6.7	16664	PASS

Data File : M:\CHICO\DATA\C111030\1030C26W.D
 Acq On : 31 Oct 11 7:21
 Sample : 20ug/mL BFB STD 10-19-11
 Misc : Water 2ul

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Method : M:\CHICO\DATA\C111030\CGAS.M (RTE Integrator)
 Title : METHOD 8260B



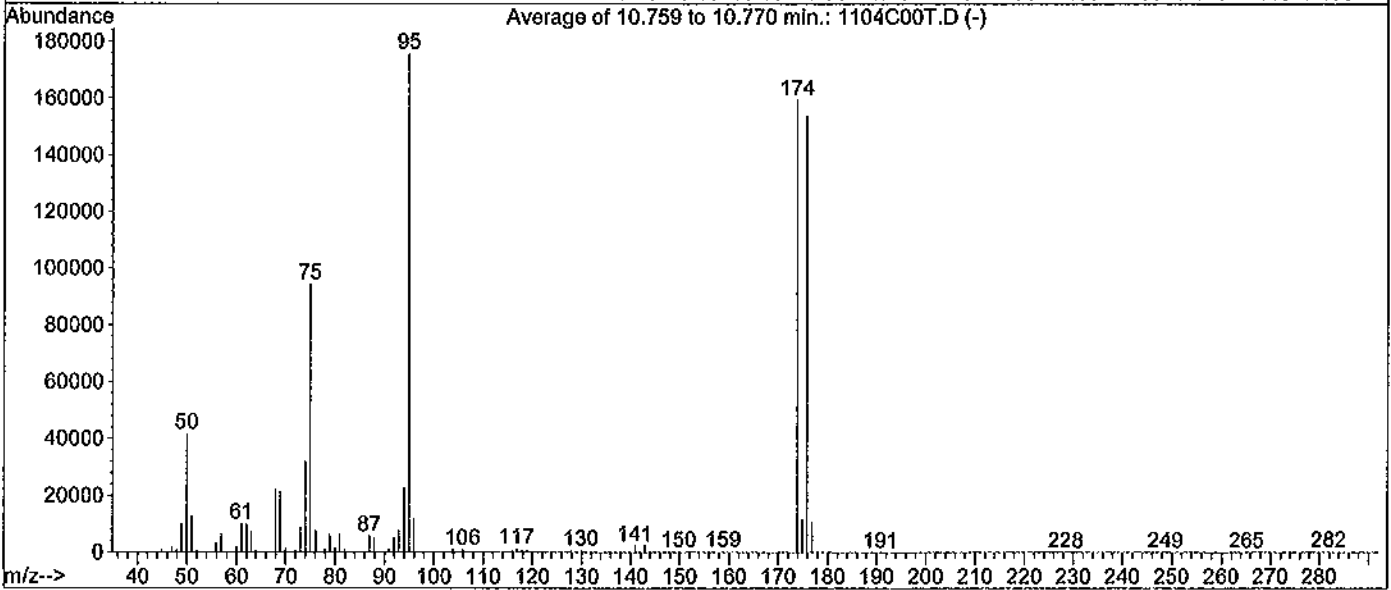
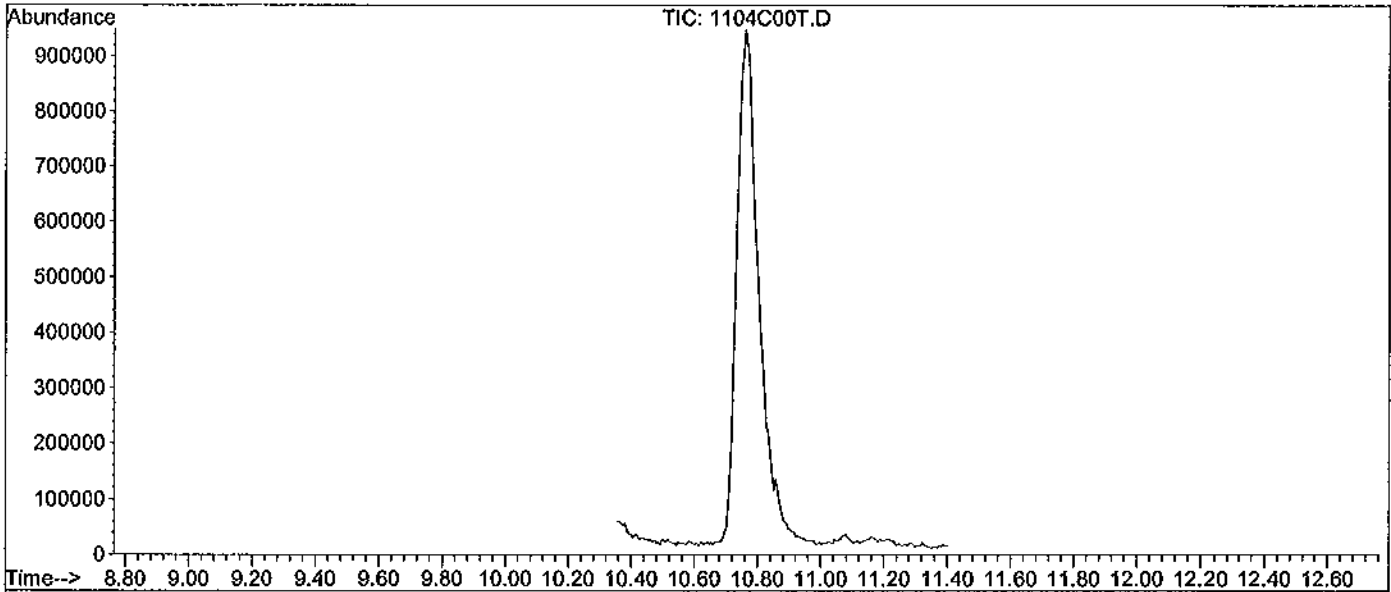
Spectrum Information: Average of 20.103 to 20.122 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.6	35941	PASS
75	95	30	60	49.7	86725	PASS
95	95	100	100	100.0	174635	PASS
96	95	5	9	6.6	11458	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	91.6	159913	PASS
175	174	5	9	6.9	11031	PASS
176	174	95	101	97.7	156203	PASS
177	176	5	9	6.7	10398	PASS

Data File : M:\CHICO\DATA\C111104\1104C00T.D
 Acq On : 4 Nov 11 8:59
 Sample : 20ug/ml BFB Std 02-17-10D
 Misc : 2ul

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260



Spectrum Information: Average of 10.759 to 10.770 min.

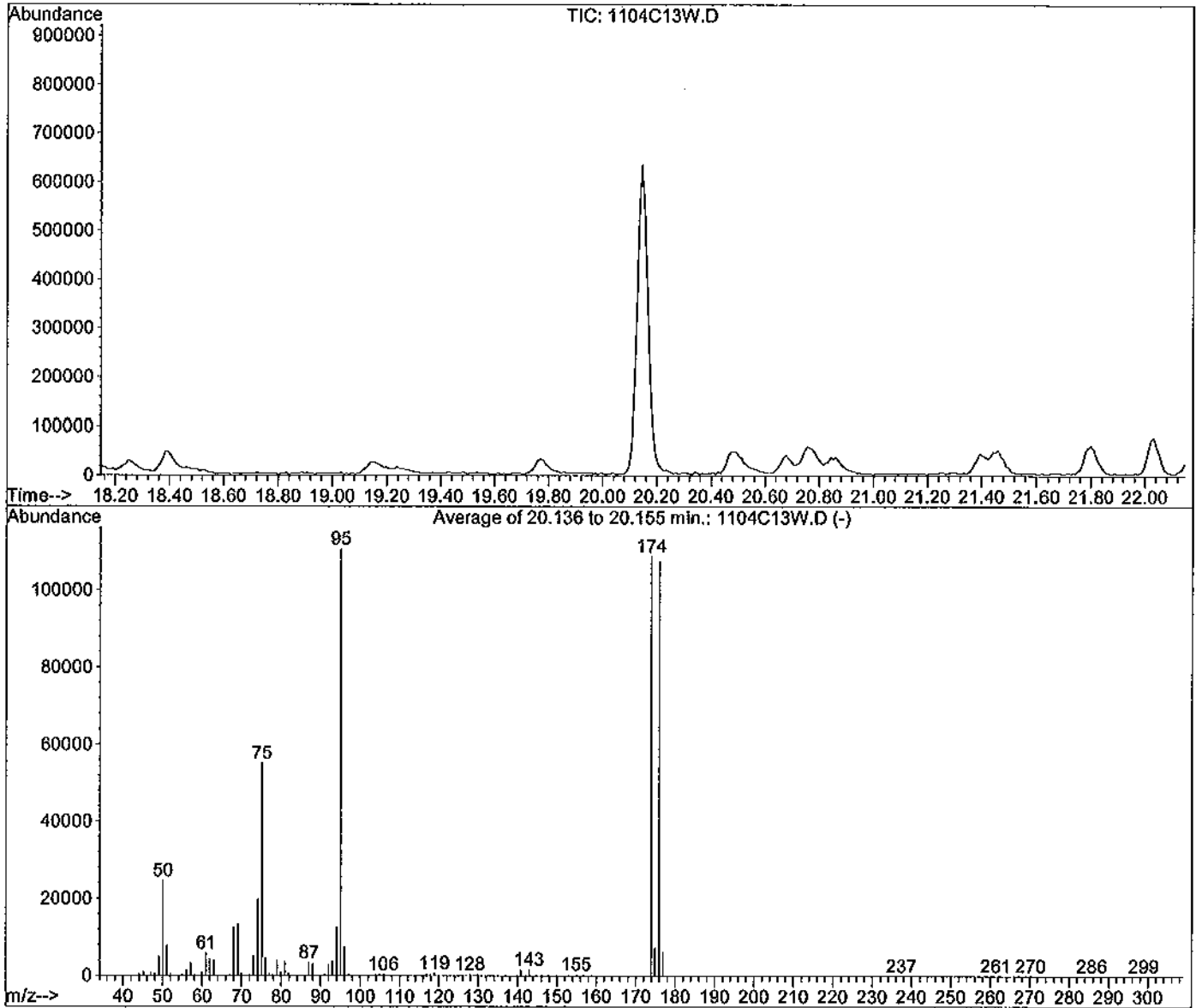
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.8	41779	PASS
75	95	30	60	53.8	94494	PASS
95	95	100	100	100.0	175723	PASS
96	95	5	9	6.7	11852	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	90.8	159509	PASS
175	174	5	9	7.3	11657	PASS
176	174	95	101	96.4	153771	PASS
177	176	5	9	6.9	10576	PASS

BFB

Data File : M:\CHICO\DATA\C111104\1104C13W.D
 Acq On : 4 Nov 11 18:46
 Sample : 20ug/mL BFB STD 10-19-11B
 Misc : 2ul

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260



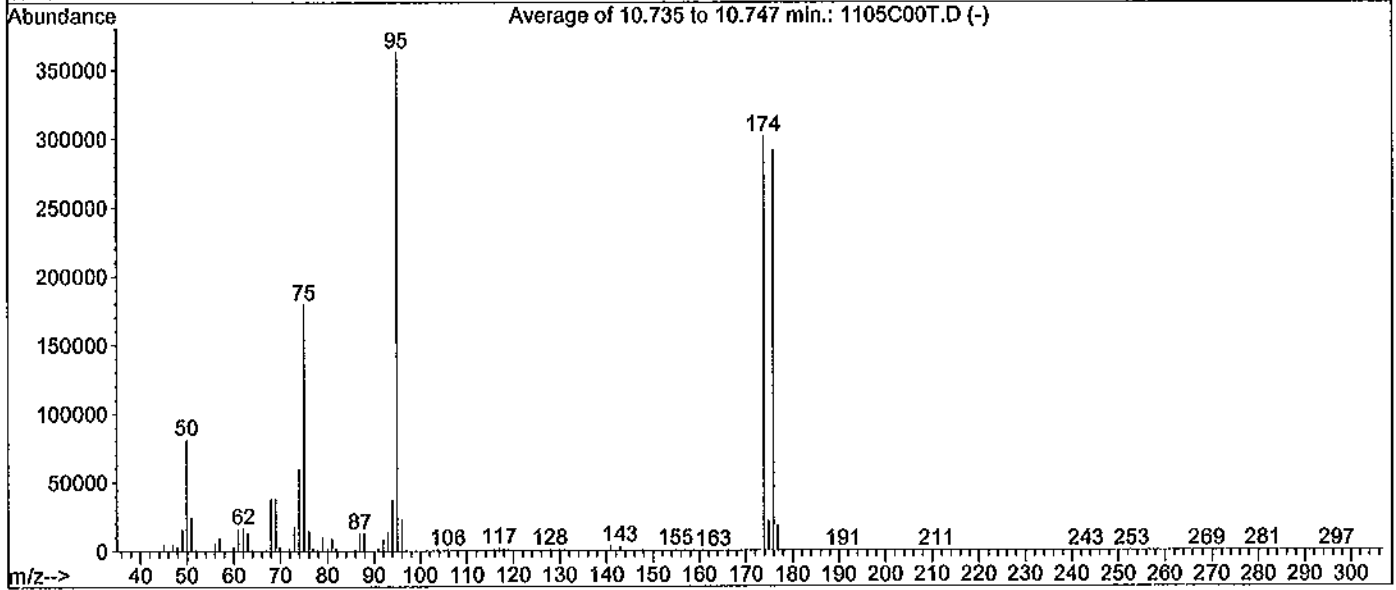
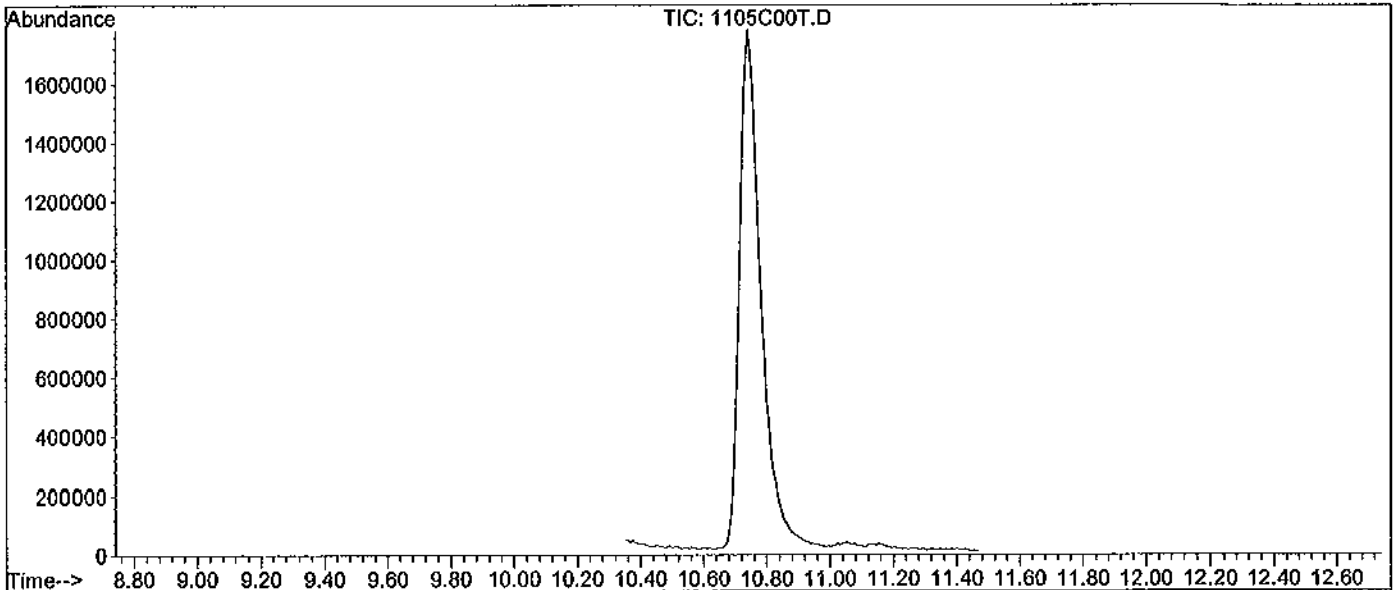
Spectrum Information: Average of 20.136 to 20.155 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.3	24648	PASS
75	95	30	60	49.8	55173	PASS
95	95	100	100	100.0	110765	PASS
96	95	5	9	6.8	7499	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	98.3	108845	PASS
175	174	5	9	6.7	7323	PASS
176	174	95	101	98.9	107653	PASS
177	176	5	9	5.9	6344	PASS

Data File : M:\CHICO\DATA\C111104\1105C00T.D
 Acq On : 5 Nov 11 10:47
 Sample : 20ug/ml BFB Std 02-17-10D
 Misc : 2ul

Vial: 1
 Operator: STC
 Inst : Chico
 Multiplr: 1.00

Method : M:\CHICO\DATA\C111104\CALLW.M (RTE Integrator)
 Title : METHOD 8260



Spectrum Information: Average of 10.735 to 10.747 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.3	81078	PASS
75	95	30	60	49.5	179691	PASS
95	95	100	100	100.0	362816	PASS
96	95	5	9	6.2	22561	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	83.1	301376	PASS
175	174	5	9	7.1	21389	PASS
176	174	95	101	96.8	291605	PASS
177	176	5	9	6.2	17986	PASS

10-28-11

B-

RS

Hexachloroethane Solution,
1000 mg/L, 1 ml

020049-02

Lot# Storage Expiry
164816 ≤ -10 Degree C 10/14/12
Soln: P/T Methanol

Hexachloroethane

Lot #: 164816 - 28687

Rec: 4/20/11 MFR exp. 10/14/12

RS

10-28-11

C-

RS

Benzyl Chloride Solution, 1000
mg/L, 1 ml

020728-02

Lot# Storage Expiry
163373 ≤ -10 Degree C 8/29/12
Soln: P/T Methanol

Benzyl Chloride

Lot #: 163373 - 29166

Rec: 8/5/11 MFR exp. 08/29/12

RS

10-28-11

D-

RS

Volatile Mix, 20-29, 2,000
mg/L, 1 ml

121039-02

Lot# Storage Expiry
163374 ≤ -10 Degree C 8/29/12
Soln: P/T Methanol

Volatile Mix, 20-29

Lot #: 163374 - 28300

Rec: 2/17/11 MFR exp. 08/29/12

RS

10-28-11

E-

RS

Method 8260 VOC Liquids, 54
Compounds, 2,000 mg/L, 1 ml

120023-03

Lot# Storage Expiry
164454 ≤ -10 Degree C 10/04/12
Soln: P/T Methanol

8260 VOC Liquids, 54 Comp.

Lot #: 164454 - 27872

Rec: 12/15/10 MFR exp. 10/04/12

RS

10-28-11

F-

RS

Vinyl Acetate Solution,
2,000 mg/L, 1 ml

018332-02

Lot# Storage Expiry
178902 ≤ -10 Degree C 12/15/11
Soln: P/T Methanol

Vinyl Acetate

Lot #: 178902 - 29552

Rec: 9/22/11 MFR exp. 12/15/11

RS

10-28-11 B-
RS.

Heptane Solution, 1000
mg/L, 1 ml
121946-82
Lot# Storage Expiry
169174 5-10 Degree C 2/18/14
Solv: P/T Methanol
Heptane Solution
Lot #: 169174 - 29248
Rec: 8/5/11 MFR exp. 02/18/14

RS

10-28-11 H-
RS.

8260B Surrogate Solution,
2,000 mg/L, 5 x 1 ml
110002-01-SPAK
Lot# Storage Expiry
173249 5-10 Degree C 5/17/13
Solv: P/T Methanol
8260B Surrogate Solution
Lot #: 173249 - 28847
Rec: 5/25/11 MFR exp. 05/17/13

RS

10-28-11 I-
RS.

VOC Mix 4-3, 2,000 mg/L, 1
ml
128166-01
Lot# Storage Expiry
178651 5-10 Degree C 9/11/13
Solv: P/T Methanol
VOC Mix 4-3, 2000mg/L
Lot #: 178651 - 29510
Rec: 9/20/11 MFR exp. 09/11/13

RS

10-28-11 J-
RS.

Method 8260 Gases (Second
Source), 2,000 mg/L, 2 X 0.6
ml
110016-03-SS
Lot# Storage Expiry
168038 5-10 Degree C 1/21/14
Solv: P/T Methanol
8260 Gases (SS)
Lot #: 168038 - 28743
Rec: 4/20/11 MFR exp. 01/21/14

RS

10-28-11K		50ug/ml Vol Work Std #7		Exp: 11/04/11					
Supplier	ID #	ID	Conc. ug/ml	Lot #	Date Code	Exp. Date	ul		
O2SI	120016-01	Gas Mix	2000	169238-26682	10-28-11A	11/30/2011	100		
O2SI	020049-02	HEXACHLOROTHANS	1000	164816-28687	10-28-11B	12/14/2011	200		
O2SI	020228-02	Benzyl Chloride	1000	163173-29166	10-28-11C	12/14/2011	200		
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	3800		
10-28-11L		50ug/ml Vol Work Std #1		Exp: 11/04/11					
Supplier	ID #	ID	ug/ml	Lot #	Code	Date	ul		
O2SI	020145-02-02	2-CeVR	2000	160032-26617	10-06-11B	12/7/2011	50		
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	1950		
10-28-11M		50ug/ml Vol Work Std #6		Exp: 11/04/11					
Supplier	ID #	ID	Conc. ug/ml	Lot #	Date Code	Exp. Date	ul		
O2SI	122039-02	Volatile Mix, 20-29	2000	163374-28300	10-28-11D	2/14/2012	100		
O2SI	120023-03	VOC's-54 COMP	2000	164454-27872	10-28-11E	2/14/2012	100		
O2SI	020232-02	Vinyl Acetate	2000	178902-29552	10-28-11F	11/18/2011	100		
O2SI	020520-02	n-Hexane	1000	162178-27889	10-26-11B	11/14/2011	200		
O2SI	020546-02	Heptane	1000	169176-29248	10-28-11G	11/14/2011	200		
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	3200		
10-28-11N		50ug/ml Vol Work Std #2		Exp: 11/04/11					
Supplier	ID #	ID	ug/ml	Lot #	Date Code	Exp. Date	ul		
O2SI	121020-05	HSL'S-Ketone Solution	2000	169173-28307	10-12-11B	11/14/2011	100		
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	10/14/2012	3900		
			Exp:	11/4/2011					
10-28-11O		5ug/ml Vol Work Std #9		Lot		APPL Code		APPL Exp Date	
SOURCE		50ug/ml Vol Work Std #7		10-28-11K		10/31/2011		200	
SOURCE		50ug/ml Vol Work Std #8		10-28-11M		10/31/2011		200	
J&T Brand				10/6/2011		6/8/2012		1600	
			Exp:	11/4/2011					
10-28-11P		5ug/ml Vol Work Std #10		Lot		APPL Code		APPL Exp Date	
SOURCE		50ug/ml Vol Work Std #1		10-28-11L		10/31/2011		200	
J&T Brand				10/27/2011		6/8/2012		1800	
			Exp:	11/4/2011					
10-28-11Q		5ug/ml Vol Work Std #12		Lot		APPL Code		APPL Exp Date	
SOURCE		50ug/ml Vol Work Std #2		10-28-11N		10/31/2011		200	
J&T Brand				10/27/2011		6/8/2012		1800	
10-28-11R		80ug/ml #260 Surrogate		Exp: 11/04/11					
Supplier	ID #	ID	Conc. ug/ml	Lot #	Date Code	Exp. Date	ul		
O2SI	120002-01	8260R Surr Solution	2000	173249-28847	10-28-11H	11/14/2011	100		
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	3900		
10-28-11S		5.0ug/ml #260 Surrogate		Exp: 11/4/2011					
Supplier	ID #	ID	Lot	APPL Code	APPL Exp Date	ul			
J&T Brand		50ug/ml #260 Surrogate	10-28-11R	10/31/2011	200				
J&T Brand		Purge & Trap MeOH	K14806-00556	10/27/2011	1800				
10-28-11T		250ug/ml TBA/TBA/Acetone/nitrile/Cyclohexanone/Acroleln/2-P		Exp: 11/04/11					
Supplier	ID #	ID	Conc. ug/ml	Lot #	Date Code	Exp. Date	ul		
O2SI	120166-01	Volatile Mix 4-3	2000	178651-29510	10-28-11I	12/17/2011	500		
O2SI	020229-09	Acroleln	10000	179911-29661	10-19-11H	11/21/2011	100		
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	3400		

10/28/11
PS.

10/12
RS

10/12
RS

10-28-11U							
50ug/ml VOC std#5							
Exp:11/04/11							
Supplier	ID #	ID	Conc.	Lot #	Date	Exp.	ul
Q2SI	120016-03-SS	8260 Games(SS)	2000	168038-28743	10-28-11J	11/30/2011	50
Q2SI	020145-02-02-S	2-CBVR	2000	152530-27273	10-19-11J	11/3/2011	50
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	1900
10-28-11V							
50ug/ml VOC std#6							
Exp:11/04/11							
Supplier	ID #	ID	ug/ml	Lot #	Date	Exp.	ul
Q2SI	120023-03-SS	VOC'S 54 COMP.	2000	163271-27773	09-12-11P	11/14/2011	50
Q2SI	120026-01	CAROM 8260 SOLUTION	2000	166038-27763	09-12-11Q	11/14/2011	50
Q2SI	020232-02-SS	Vinyl Acetate(SS)	2000	176774-29257	09-12-11R	11/30/2011	50
Q2SI	020620-02-SS	n-HEXANE	1000	179199-25615	10-12-11F	12/14/2011	100
Q2SI	020049-02-SS	HEXACHLOROTHANE	1000	154535-25913	09-11-11B	12/29/2011	100
Q2SI	020546-02-SS	Heptane(SS)	1000	142276-23593	09-11-11C	12/19/2011	100
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	1550
10-28-11W							
250ug/ml TBA/IBH/Acetonitrile/Cyclohexanone/Acroleln/2-P							
Exp:11/04/11							
Supplier	ID #	ID	Conc.	Lot #	Date	Exp.	ul
Q2SI	120166-01-SS	VOC MIX 1-3 (SS)	2000	152531-25468	10-02-11G	11/3/2011	250
Q2SI	020229-09-SS	Acroleln SOLUTION (SS)	10000	178607-29549	10-02-11H	11/21/2011	50
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	1700

10/28/11
RS

RS

10-28-11X							
50ug/ml Vol Work Std #7							
Exp:11/04/11							
Supplier	ID #	ID	Conc.	Lot #	Date	Exp.	ul
Q2SI	120016-03	Sea Mix	2000	169238-28682	10-28-11A	11/30/2011	100
Q2SI	020049-02	HEXACHLOROTHANE	1000	164815-28687	10-28-11B	12/14/2011	200
Q2SI	020228-02	Benzyl Chloride	1000	163373-29166	10-28-11C	12/14/2011	200
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	3500
10-28-11Y							
50ug/ml Vol Work Std #1							
Exp:11/04/11							
Supplier	ID #	ID	ug/ml	Lot #	Date	Exp.	ul
Q2SI	020145-02-02	2-CBVR	2000	150092-26637	10-06-11B	12/7/2011	50
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	1900
10-28-11Z							
50ug/ml Vol Work Std #8							
Exp:11/04/11							
Supplier	ID #	ID	Conc.	Lot #	Date	Exp.	ul
Q2SI	122039-02	Volatile Mix, 20-29	2000	163374-28300	10-28-11D	2/14/2012	100
Q2SI	120023-03	VOC'S-54 COMP	2000	164654-27672	10-28-11E	2/14/2012	100
Q2SI	020232-02	Vinyl Acetate	2000	178909-29552	10-28-11F	11/15/2011	100
Q2SI	020620-02	n-Hexane	1000	163378-27889	10-26-11B	11/14/2011	200
Q2SI	020546-02	Heptane	1000	169174-29246	10-28-11G	11/14/2011	200
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	6/8/2012	3300
10-28-11AA							
50ug/ml Vol Work Std #2							
Exp:11/04/11							
Supplier	ID #	ID	ug/ml	Lot #	Date	Exp.	ul
Q2SI	121020-05	HSL'S-Ketone Solution	2000	169173-28307	10-12-11B	11/14/2011	100
J&T Brand		Purge & Trap MeOH		K14806-00556	10/27/2011	10/14/2012	3900
10-28-11AB							
50ug/ml Vol Work Std #9							
Exp: 11/4/2011							
SOURCE	Lot	APPL Code	APPL Exp Date	ul			
50ug/ml Vol Work Std #7	10-28-11X		10/31/2011	200			
50ug/ml Vol Work Std #8	10-28-11Z		10/31/2011	200			
J&T Brand	10/6/2011		6/8/2012	1600			
10-28-11AC							
50ug/ml Vol Work Std #10							
Exp: 11/4/2011							
SOURCE	Lot	APPL Code	APPL Exp Date	ul			
50ug/ml Vol Work Std #1	10-28-11Y		10/31/2011	200			
J&T Brand	10/27/2011		6/8/2012	1800			

10/28/11
RS

RS

		10-28-11AD	Exp:	11/4/2011			
		50ug/ml Vol Work Std #12					
		SOURCE	Lot	APPL Code	APPL Exp Date	ul	
		50ug/ml Vol Work Std #2					
		J&T Brand		10-28-11AA	10/31/2011	200	
				10/27/2011	6/8/2012	1800	
10-28-11AF							
		50ug/ml 8260 Surrogate	Conc.	Date		Exp.	
Exp: 11/04/11			ug/ml	Lot #	Code	Date	ul
02SI		120002-01	8260B Surr Solution	2000	173249-28657	10-28-11H	11/14/2011
J&T Brand			Purge & Trap MeOH		K14R06-00556	10/27/2011	6/8/2012
							1900
10-28-11AF							
		5.0ug/ml 8260 Surrogate	Lot	APPL Code	APPL Exp Date	ul	
J&T Brand				10-28-11AR	10/31/2011	200	
				K14R06-00556	10/27/2011	1800	
10-28-11AG							
		250ug/ml TSA/IDA/Acetonitrile/Cyclohexanone/Acroleim/2-P					
Exp: 11/04/11			Conc.	Date		APPL Exp.	
Supplier		ID #	ug/ml	Lot #	Code	Date	ul
02SI		120166-01	Volatiles Mix 4-3	2000	178651-29510	10-28-11I	11/17/2011
02SI		020229-09	Acrolein	10000	179941-29661	10-19-11H	11/21/2011
J&T Brand			Purge & Trap MeOH		K14R06-00556	10/27/2011	6/8/2012
							1400

10/28/11
RS.

NOTEBOOK INSERT LABEL

Gasoline 47616-U
Lot: LB82077 EXP: FEB/2014 STORAGE: ROOM TBMP. 1 x 1ml

DATE RECEIVED: _____

SUPELCO
695 North Harrison Road • Bellefonte, PA
16823-0048 USA • Phone 814-359-3441

RS.

10/30/11 A-
RS.

STANDARD TRANSFER LABEL

Date of Preparation: _____

Exp. Date: _____

Reference Number: _____

Storage: _____

Description: _____

Gasoline
Lot #: LB82077 - 29133
Rec: 8/4/11 MFR exp. 02/28/14

EXP: FEB/2014
ROOM TBMP.

10/30/11 B-
RS.

REST
CALIF 30205

Unleaded gasoline composite
Lot #: A076842 - 29141
Rec: 8/4/11 MFR exp. 10/31/17

Unleaded Gasoline Composite Standards
50000 ug/ml each in P&T MePanol
Lot # **A076842** Exp. Date: 10/2017 Store: FROZER
Restek Corporation - 110 Berner Circle - Bellefonte, PA 16823

RS.

10/30/11C		2000ug/ml Gasoline					
		Conc.	Date		APPL Exp.		
Supplier		ug/ml	Lot #	Code	Date	ul	
Supelco		20,000	LB82077-29133	10-30-11A	11/2/2012	200	
J&T Brand				10/27/2011	3/2/2012	1800	
10/30/11D							
		Conc.	Date		APPL Exp.		
Supplier		ug/ml	Lot #	Code	Date	ul	
Supelco		50,000	A076842-29141	10-10-11B	11/30/2012	80	
J&T Brand				10/27/2011	3/2/2012	1920	

10/30/11
RS.

Vol% Standard Curve Preparation for 10mL Purge (8260 water)-CHICO

Date	Code	Expiration Date: 1/5/2011																		
		500µg/ml Vol Std #1	500µg/ml Vol Std #2	500µg/ml Vol Std #3	500µg/ml Vol Std #4	500µg/ml Vol Std #5	500µg/ml Vol Std #6	500µg/ml Vol Std #7	500µg/ml Vol Std #8	500µg/ml Vol Std #9	500µg/ml Vol Std #10									
11-04-11	0.3	3	10	20	40	80	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
11-04-11	0.5	5	10	20	40	80	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
11-04-11	1	10	20	40	80	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
11-04-11	2	20	40	80	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
11-04-11	5	n/a	n/a	n/a	5	10	20	40	80	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
11-04-11	10	n/a	n/a	10	20	40	80	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
11-04-11	20	n/a	n/a	20	40	80	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
11-04-11	40	n/a	n/a	40	80	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
11-04-11	100	n/a	n/a	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

11/04/11
RS

250µg/ml TAPD 10-28-11AG	Final Vol w/PAT H2O
Exp:11-04-11	ml
3	50
5	50
10	50
20	50
40	50
100	50

Vol% Standard Curve Preparation for 10mL Purge (8260 water)-MAX

Date	Code	Expiration Date: 1/5/2011																		
		500µg/ml Vol Std #1	500µg/ml Vol Std #2	500µg/ml Vol Std #3	500µg/ml Vol Std #4	500µg/ml Vol Std #5	500µg/ml Vol Std #6	500µg/ml Vol Std #7	500µg/ml Vol Std #8	500µg/ml Vol Std #9	500µg/ml Vol Std #10									
11-04-11	0.3	3	10	20	40	80	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
11-04-11	0.5	5	10	20	40	80	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
11-04-11	1	10	20	40	80	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
11-04-11	2	20	40	80	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
11-04-11	5	n/a	n/a	n/a	5	10	20	40	80	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
11-04-11	10	n/a	n/a	10	20	40	80	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
11-04-11	20	n/a	n/a	20	40	80	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
11-04-11	40	n/a	n/a	40	80	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
11-04-11	100	n/a	n/a	100	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

11/04/11
RS

250µg/ml TAPD 10-28-11AG	Final Vol w/PAT H2O
Exp:11-04-11	ml
3	50
5	50
10	50
20	50
40	50
100	50

11/05/11
RS

A-

Method 8260 Gases, 7,000 mg/L, 2 X 0.6ml
120016-03
Lot# Storage Expiry
169238 5-30 Degrees C 2/19/12
Soln: P/E Methanol

Method 8260 Gases
Lot #: 169238 - 28683
Rec: 4/20/11 MFR exp. 02/19/14

RS

11/05/11
RS

B-

Hexachloroethane Solution,
1000mg/L, 1 ml
020049-02
Lot# Storage Expiry
164816 5-10 Degrees C 10/14/12
Soln: P/E Methanol

Hexachloroethane
Lot #: 164816 - 29161
Rec: 8/5/11 MFR exp. 10/14/12

RS

11/05/11
RS

C-

Benzyl Chloride Solution, 1000 mg/L, 1 ml
020318-02
Lot# Storage Expiry
163373 5-14 Degrees C 8/29/12
Soln: P/E Methanol

Benzyl Chloride
Lot #: 163373 - 29167
Rec: 8/5/11 MFR exp. 08/29/12

RS

Injection Log

Directory: M:\CHICO\DATA\C111030\ and M:\CHICO\DATA\C111104\

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	1030C00T.D	1	20ug/mL BFB STD 10-19-11B	2ul	30 Oct 11 12:52
2	1	1030C05W.D	1	Vol Std 10-30-11@20ug/L	Water 10mLw/ IS:10-30-11	30 Oct 11 16:17
3	1	1030C06W.D	1	Vol Std 10-30-11@50ug/L	Water 10mLw/ IS:10-30-11	30 Oct 11 17:00
4	1	1030C07W.D	1	Vol Std 10-30-11@100ug/L	Water 10mLw/ IS:10-30-11	30 Oct 11 17:43
5	1	1030C08W.D	1	Vol Std 10-30-11@300ug/L	Water 10mLw/ IS:10-30-11	30 Oct 11 18:26
6	1	1030C09W.D	1	Vol Std 10-30-11@600ug/L	Water 10mLw/ IS:10-30-11	30 Oct 11 19:09
7	1	1030C10W.D	1	Vol Std 10-30-11@800ug/L	Water 10mLw/ IS:10-30-11	30 Oct 11 19:52
8	1	1030C11W.D	1	Vol Std 10-30-11@1000ug/L	Water 10mLw/ IS:10-30-11	30 Oct 11 20:35
9	1	1030C26W.D	1	20ug/mL BFB STD 10-19-11	Water 2ul	31 Oct 11 7:21
10	1	1030C29W.D	1	GAS 300ug/L (SS)	Water 10mLw/ IS&S:10-30/10-26-11	31 Oct 11 9:31
11	1	1104C00T.D	1	20ug/ml BFB Std 02-17-10D	2ul	4 Nov 11 8:59
12	1	1104C04W.D	1	VOL STD 11-04-11@0.3ug/L	Water 10mLw/ IS:10-30-11	4 Nov 11 12:17
13	1	1104C05W.D	1	VOL STD 11-04-11@0.5ug/L	Water 10mLw/ IS:10-30-11	4 Nov 11 13:00
14	1	1104C06W.D	1	VOL STD 11-04-11@1.0ug/L	Water 10mLw/ IS:10-30-11	4 Nov 11 13:43
15	1	1104C07W.D	1	VOL STD 11-04-11@2.0ug/L	Water 10mLw/ IS:10-30-11	4 Nov 11 14:26
16	1	1104C08W.D	1	VOL STD 11-04-11@5.0ug/L	Water 10mLw/ IS:10-30-11	4 Nov 11 15:10
17	1	1104C09W.D	1	VOL STD 11-04-11@10ug/L	Water 10mLw/ IS:10-30-11	4 Nov 11 15:53
18	1	1104C10W.D	1	VOL STD 11-04-11@20ug/L	Water 10mLw/ IS:10-30-11	4 Nov 11 16:36
19	1	1104C11W.D	1	VOL STD 11-04-11@40ug/L	Water 10mLw/ IS:10-30-11	4 Nov 11 17:19
20	1	1104C12W.D	1	VOL STD 11-04-11@100ug/L	Water 10mLw/ IS:10-30-11	4 Nov 11 18:02
21	1	1104C13W.D	1	20ug/mL BFB STD 10-19-11B	2ul	4 Nov 11 18:46
22	1	1104C17W.D	1	111104A LCS-1WC	Water 10mLw/ IS:10-30-11	4 Nov 11 21:38
23	1	1105C00T.D	1	20ug/ml BFB Std 02-17-10D	2ul	5 Nov 11 10:47
24	1	1105C02W.D	1	VOC STD 11-5-11@10ug/L	Water 10mLw/ IS:10-30-11	5 Nov 11 12:02
25	1	1105C03W.D	1	111105A LCS-1WC	Water 10mLw/ IS:10-30-11	5 Nov 11 12:45
26	1	1105C05W.D	1	Gas CCV 11-05-11@300ug/L	Water 10mLw/ IS:10-30-11	5 Nov 11 14:11
27	1	1105C06W.D	1	111105A LCS-1WC (GAS)	Water 10mLw/ IS:10-30-11	5 Nov 11 14:54
28	1	1105C09W.D	1	111105A BLK-1WC	Water 10mLw/ IS:10-30-11	5 Nov 11 17:04
29	1	1105C10W.D	1	AY50004W01	Water 10mLw/ IS:10-30-11	5 Nov 11 17:48
30	1	1105C11W.D	1	AY50005W01	Water 10mLw/ IS:10-30-11	5 Nov 11 18:31

METALS

APPL, INC.

METALS
QC Summary

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
6020	LEAD (PB) (DISSOL	0.19 J	0.5	0.22	0.11	ug/L	11/10/11	11/11/11	#602D-111110A-AY49334

J = Estimated value.

Laboratory Control Spike Recovery
METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
6020	LEAD (PB) (DISSOLVED)	50.0	50.0	100	80-120	11/10/2011	1/11/2011	#602D-111110A-AY49334

Comments:

METALS
Sample Data

Metals Analysis

Environet, Inc.
650 Iwilei Rd, #204
Honolulu, HI 96817

Attn: Stacey Fineran
Project: RED HILL/1022-024

Sample ID: ES057

Sample Collection Date: 11/2/2011

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 66186

APPL ID: AY50005

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date	Analysis Date
6020	LEAD (PB) (DISSOLVED)	0.22U	0.5	0.22	0.11	ug/L	1	11/10/2011	11/11/2011

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\0678MPL.D\0678MPL.D#
 Date Acquired: Nov 11 2011 06:46 pm
 Operator: NBS
 Sample Name: AY50005W08
 Misc Info: 111110A-3015
 Vial Number: 3306
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: Sample
 Prep Dil Factor: 1.11
 Total Dil Factor: 1.11

QC Elements

Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
7 (Li)	----- ug/l	#VALUE!	-----	0	
9 Be	-0.01 ug/l	-0.01	10.03	1000	
11 B	34.60 ug/l	38.44	1.01	1000	
23 Na	30780.00 ug/l	34196.58	0.62	25000	>Cal
24 Mg	9018.00 ug/l	10019.00	0.81	50000	
27 Al	9.35 ug/l	10.38	5.11	20000	
39 K	1865.00 ug/l	2072.02	1.10	20000	
44 Ca	14170.00 ug/l	15742.87	0.68	50000	
47 Ti	0.98 ug/l	1.09	9.48	1000	
51 V	-0.25 ug/l	-0.27	9.33	1000	
52 Cr	0.08 ug/l	0.09	8.97	1000	
55 Mn	832.50 ug/l	924.91	1.02	1000	
56 Fe	460.70 ug/l	511.84	0.09	20000	
59 Co	0.63 ug/l	0.70	2.59	1000	
60 Ni	0.70 ug/l	0.78	4.54	1000	
63 Cu	0.01 ug/l	0.02	54.35	1000	
65 Cu	0.03 ug/l	0.03	87.59	1000	
66 Zn	3.94 ug/l	4.37	2.72	1000	
75 As	-0.36 ug/l	-0.40	5.37	1000	
78 Se	0.02 ug/l	0.02	64.15	1000	
78 Se	0.07 ug/l	0.07	82.23	1000	
88 Sr	88.98 ug/l	98.86	0.41	1000	
88 Sr	90.71 ug/l	100.78	0.28	1000	
95 Mo	0.15 ug/l	0.17	3.57	1000	
106 (Cd)	----- ug/l	#VALUE!	-----	#####	
107 Ag	0.00 ug/l	0.00	70.06	500	
108 (Cd)	----- ug/l	#VALUE!	-----	#####	
111 Cd	0.01 ug/l	0.01	81.65	1000	
118 Sn	0.12 ug/l	0.13	13.45	1000	
121 Sb	0.12 ug/l	0.13	5.87	1000	
137 Ba	10.65 ug/l	11.83	0.30	1000	
205 Tl	0.01 ug/l	0.01	29.17	1000	
206 (Pb)	----- ug/l	#VALUE!	-----	#####	
207 (Pb)	----- ug/l	#VALUE!	-----	#####	
208 Pb	-0.16 ug/l	-0.18	1.21	1000	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2761134.00	0.73	2775704.50	99.5	70 - 120	
45 Sc	630742.81	1.52	500780.41	126.0	70 - 120	IS Fai
45 Sc	102167.70	0.46	95494.08	107.0	70 - 120	
45 Sc	2003765.60	1.31	1460980.80	137.2	70 - 120	IS Fai
72 Ge	105359.95	1.32	96219.04	109.5	70 - 120	
72 Ge	47048.36	0.72	43611.78	107.9	70 - 120	
72 Ge	234247.27	0.62	213204.63	109.9	70 - 120	
115 In	1539035.80	1.11	1381264.00	111.4	70 - 120	
159 Tb	2074430.00	0.47	1843940.90	112.5	70 - 120	
165 Ho	2051384.50	0.92	1844184.90	111.2	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
 2 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Fail

METALS
Calibration Data

APPL, INC.

A.P.P.L. INC.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No: 66186 SDG: 66186

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 11/11/2011 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 12:39	%R(1)	True CCV1	Found 13:03	%R(1)	True CCV1	Found 13:33	%R(1)	
Lead (Pb)	100	106.3	106	50	50.31	101	50	50.34	101	P

A.P.P.L. INC.
2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No: 66186 SDG: 66186

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 11/11/2011 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 12:39	%R(1)	True CCV1	Found 15:05	%R(1)	True CCV1	Found 18:04	%R(1)	
Lead (Pb)	100	106.3	106	50	49.96	99.9	50	48.04	96.1	P

A.P.P.L. INC.

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: A.P.P.L. INC. Contract: Environet, Inc.

ARF No: 66186 SDG: 66186

Initial Calibration Source: CPI

Continuing Calibration Source: Environmental Express

Analysis Date: 11/11/2011 Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration						M
	True	Found 12:39	%R(1)	True CCV1	Found 18:59	%R(1)	True	Found	%R(1)	
Lead (Pb)	100	106.3	106	50	47.78	95.6				P

A.P.P.L. INC.

3

BLANKS

Lab Name: A.P.P.L. INC.

Contract: Environet, Inc.

ARF No.: 66186

SDG: 66186

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analysis Date: 11/11/2011

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
	12:57		13:09		13:46		15:17		14:16		
Lead (Pb)	.50	U	.50	U	.50	U	.50	U	.19	J	P

A.P.P.L. INC.

3

BLANKS

Lab Name: A.P.P.L. INC.

Contract: Environet, Inc.

ARF No.: 66186

SDG: 66186

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

Analysis Date: 11/11/2011

Analyte	Initial Calibration Blank (ug/L) C	Continuing Calibration Blank (ug/L)						Preparation Blank C	M
		1 C	2 C	3 C					
	12:57	18:16	19:11				14:16		
Lead (Pb)	.50 U	.50 U	.50 U				.19 J	P	

ICP INTERFERENCE CHECK SAMPLE

Lab Name: A.P.P.L. INC.
 ARF No.: 66186
 ICP ID Number: Optimus

Contract: Environet, Inc.
 SDG: 66186
 ICS Source: Environmental Express

Analysis Date: 11/11/2011

Concentration Units: ug/L

Analyte	True		Initial Found		
	Sol A	Sol AB	Sol A 13:15	Sol AB 13:21	%R(1)
Lead (Pb)		500	3.499	502	100

(1) Control Limits: Metals 80-120

Calibration Blank QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\004CAL
 Date Acquired: Nov 11 2011 12:08 pm
 Operator: NBS
 Sample Name: Calibration Blank
 Misc Info:
 Vial Number: 1102
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:06 pm
 Sample Type: CalBlk
 Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean	SD	RSD(%)
6 Li	2775705.00 A	31080.00	1.12
7 (Li)	152897.91 P	508.10	0.33
9 Be	164.45 P	15.75	9.58
11 B	9503.37 P	213.80	2.25
23 Na	81958.40 P	248.30	0.30
24 Mg	134.45 P	6.94	5.16
27 Al	111.12 P	16.78	15.10
39 K	60334.78 P	2276.00	3.77
44 Ca	384.84 P	48.59	12.63
45 Sc	500780.41 P	2032.00	0.41
45 Sc	95494.08 P	252.60	0.26
45 Sc	1460981.00 A	25510.00	1.75
47 Ti	4.89 P	0.77	15.75
51 V	3955.25 P	110.20	2.79
52 Cr	547.13 P	20.02	3.66
55 Mn	165.78 P	8.57	5.17
56 Fe	5746.57 P	137.00	2.38
59 Co	1492.99 P	62.44	4.18
60 Ni	69.78 P	22.72	32.56
63 Cu	2222.87 P	55.11	2.48
65 Cu	1076.95 P	27.98	2.60
66 Zn	207.12 P	12.10	5.84
72 Ge	96219.04 P	484.10	0.50
72 Ge	43611.78 P	490.40	1.12
72 Ge	213204.59 P	1657.00	0.78
75 As	266.34 P	7.21	2.71
78 Se	4.67 P	1.53	32.74
78 Se	30.00 P	1.16	3.85
88 Sr	48.89 P	8.39	17.16
88 Sr	188.90 P	11.71	6.20
95 Mo	111.12 P	22.69	20.42
106 (Cd)	31.11 P	10.18	32.72
107 Ag	35.56 P	13.47	37.88
108 (Cd)	27.78 P	5.09	18.33
111 Cd	0.12 P	4.33	3513.10
115 In	1381264.00 A	15790.00	1.14
118 Sn	495.58 P	60.50	12.21
121 Sb	323.35 P	35.28	10.91
137 Ba	91.12 P	13.47	14.78
159 Tb	1843941.00 A	33820.00	1.83
165 Ho	1844185.00 A	22050.00	1.20
205 Tl	78.89 P	5.09	6.45
206 (Pb)	1670.17 P	51.97	3.11
207 (Pb)	1455.69 P	79.06	5.43
208 Pb	6738.71 P	70.43	1.05

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\005CAL5.D\005CAL5.D#
 Date Acquired: Nov 11 2011 12:14 pm
 Operator: NSS
 Sample Name: 111111 Standard 1
 Misc Info:
 Vial Number: 1103
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:12 pm
 Sample Type: CalStd
 Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean	SD	RSD(%)	Cal Coef
6 Li	2934478.00 A	12100.00	0.41	0.0000
7 {Li}	160812.41 P	1266.00	0.79	0.0000
9 Be	1031.18 P	27.15	2.63	0.0000
11 B	10014.79 P	224.80	2.24	0.0000
23 Na	101764.30 P	5296.00	5.20	0.0000
24 Mg	2435.84 P	56.81	2.33	0.0000
27 Al	465.58 P	50.04	10.75	0.0000
39 K	63456.74 P	1758.00	2.77	0.0000
44 Ca	441.03 P	5.03	1.14	0.0000
45 Sc	483714.81 P	17820.00	3.68	0.0000
45 Sc	96706.18 P	602.60	0.62	0.0000
45 Sc	1494561.00 A	14240.00	0.95	0.0000
47 Ti	16.89 P	3.36	19.87	0.0000
51 V	4556.33 P	51.66	1.13	0.0000
52 Cr	876.48 P	32.73	3.73	0.0000
55 Mn	7451.77 P	52.30	0.70	0.0000
56 Fe	12699.44 P	213.90	1.68	0.0000
59 Co	1820.58 P	82.65	4.54	0.0000
60 Ni	166.23 P	12.10	7.28	0.0000
63 Cu	3334.65 P	61.70	1.85	0.0000
65 Cu	1647.67 P	94.43	5.73	0.0000
66 Zn	231.56 P	11.34	4.90	0.0000
72 Ge	93081.49 P	2181.00	2.34	0.0000
72 Ge	43620.24 P	387.20	0.89	0.0000
72 Ge	210910.70 P	1414.00	0.67	0.0000
75 As	300.78 P	7.07	2.35	0.0000
78 Se	21.00 P	2.60	12.40	0.0000
78 Se	30.33 P	6.33	20.88	0.0000
88 Sr	303.35 P	25.17	8.30	0.0000
88 Sr	1913.54 P	79.67	4.16	0.0000
95 Mo	385.58 P	18.36	4.76	0.0000
106 (Cd)	51.11 P	6.94	13.58	0.0000
107 Ag	447.80 P	37.47	8.37	0.0000
108 (Cd)	28.89 P	17.10	59.19	0.0000
111 Cd	182.07 P	18.49	10.16	0.0000
115 In	1383497.00 A	12980.00	0.94	0.0000
118 Sn	901.17 P	20.10	2.23	0.0000
121 Sb	988.96 P	26.95	2.73	0.0000
137 Ba	304.46 P	49.48	16.25	0.0000
159 Tb	1838841.00 A	19950.00	1.08	0.0000
165 Ho	1842078.00 A	20850.00	1.13	0.0000
205 Tl	1497.92 P	40.19	2.68	0.0000
206 (Pb)	2154.70 P	105.60	4.90	0.0000
207 (Pb)	1842.42 P	104.10	5.65	0.0000
208 Pb	8565.85 P	320.10	3.74	0.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2934478.30	0.41	2775704.50	105.7	70 -	120
45 Sc	483714.78	3.68	500780.41	96.6	70 -	120
45 Sc	96706.18	0.62	95494.08	101.3	70 -	120
45 Sc	1494561.00	0.95	1460980.80	102.3	70 -	120
72 Ge	93081.49	2.34	96219.04	96.7	70 -	120
72 Ge	43620.24	0.89	43611.78	100.0	70 -	120
72 Ge	210910.72	0.67	213204.63	98.9	70 -	120
115 In	1383496.90	0.94	1381264.00	100.2	70 -	120
159 Tb	1838841.50	1.08	1843940.90	99.7	70 -	120
165 Ho	1842078.10	1.13	1844184.90	99.9	70 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CAL5.D\004CAL5.D#

--- :Element Failures --- :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
 Analytes: Pass
 ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\006CALC.D\006CALC.D#
 Date Acquired: Nov 11 2011 12:20 pm
 Operator: NBS
 Sample Name: 111111 Standard 2
 Misc Info:
 Vial Number: 1104
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:18 pm
 Sample Type: CalStd
 Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean	SD	RSD(%)	Cal Coef
6 Li	3013436.00 A	14250.00	0.47	0.0000
7 (Li)	162843.41 P	655.10	0.40	1.0000
9 Be	10180.43 P	411.30	4.04	1.0000
11 B	16379.42 P	483.40	2.95	1.0000
23 Na	196689.50 P	7056.00	3.59	1.0000
24 Mg	23141.91 P	43.26	0.19	1.0000
27 Al	4021.80 P	226.90	5.64	1.0000
39 K	76357.12 P	2463.00	3.23	1.0000
44 Ca	1793.11 P	71.50	3.99	1.0000
45 Sc	510541.00 P	4569.00	0.89	0.0000
45 Sc	97262.66 P	635.50	0.65	0.0000
45 Sc	1465690.00 A	21530.00	1.47	0.0000
47 Ti	156.45 P	19.06	12.18	1.0000
51 V	8092.54 P	134.80	1.67	1.0000
52 Cr	4117.09 P	42.23	1.03	1.0000
55 Mn	61442.06 P	651.50	1.06	1.0000
56 Fe	82436.35 P	925.30	1.12	1.0000
59 Co	6109.79 P	52.36	0.86	1.0000
60 Ni	1383.64 P	28.30	2.05	1.0000
63 Cu	15516.40 P	233.60	1.51	1.0000
65 Cu	7559.83 P	73.09	0.97	1.0000
66 Zn	1430.31 P	74.87	5.23	1.0000
72 Ge	96818.69 P	1004.00	1.04	0.0000
72 Ge	44609.64 P	326.50	0.73	0.0000
72 Ge	203708.30 P	1751.00	0.86	0.0000
75 As	639.35 P	17.53	2.74	1.0000
78 Se	175.22 P	7.34	4.19	1.0000
78 Se	81.11 P	6.83	8.43	1.0000
88 Sr	3138.24 P	334.10	7.46	1.0000
88 Sr	17034.09 P	556.30	3.27	1.0000
95 Mo	3096.01 P	35.02	1.13	1.0000
106 (Cd)	180.01 P	18.56	10.31	1.0000
107 Ag	4028.49 P	77.05	1.91	1.0000
108 (Cd)	138.89 P	13.47	9.70	1.0000
111 Cd	1685.97 P	41.67	2.47	1.0000
115 In	1324038.00 A	6932.00	0.52	0.0000
118 Sn	5423.48 P	180.10	3.32	1.0000
121 Sb	6328.31 P	130.20	2.06	1.0000
137 Ba	2328.05 P	139.60	6.00	1.0000
159 Tb	1820559.00 A	17780.00	0.98	0.0000
165 Ho	1818461.00 A	19460.00	1.07	0.0000
205 Tl	15160.28 P	220.10	1.45	1.0000
206 (Pb)	7664.74 P	91.74	1.20	1.0000
207 (Pb)	7014.34 P	72.68	1.04	1.0000
208 Pb	31156.53 P	401.40	1.29	1.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3013436.30	0.47	2775704.50	108.6	70 -	120
45 Sc	510541.06	0.89	500780.41	101.9	70 -	120
45 Sc	97262.66	0.65	95494.08	101.9	70 -	120
45 Sc	1465690.00	1.47	1460980.80	100.3	70 -	120
72 Ge	96818.70	1.04	96219.04	100.6	70 -	120
72 Ge	44609.64	0.73	43611.78	102.3	70 -	120
72 Ge	203708.33	0.86	213204.63	95.5	70 -	120
115 In	1324038.00	0.52	1381264.00	95.9	70 -	120
159 Tb	1820559.10	0.98	1843940.90	98.7	70 -	120
165 Ho	1818460.60	1.07	1844184.90	99.6	70 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALC.D\004CALC.D#

--- :Element Failures --- :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass
 ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\007CAL5.D\007CAL5.D#
 Date Acquired: Nov 11 2011 12:27 pm
 Operator: NBS
 Sample Name: 111111 Standard 3
 Misc Info:
 Vial Number: 1105
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:24 pm
 Sample Type: CalStd
 Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean	SD	RSD(%)	Cal Coef
6 Li	3129745.00 A	45260.00	1.45	0.0000
7 (Li)	169858.91 P	576.50	0.34	0.7236
9 He	529831.50 P	2404.00	0.45	0.9999
11 B	352525.41 P	4097.00	1.16	0.9985
23 Na	1470286.00 A	17010.00	1.16	0.9979
24 Mg	1292682.00 A	17130.00	1.33	1.0000
27 Al	182025.00 P	2356.00	1.29	1.0000
39 K	502725.09 P	1262.00	0.25	0.9983
44 Ca	52265.13 P	789.60	1.51	0.9983
45 Sc	522323.31 P	4813.00	0.92	0.0000
45 Sc	98761.96 P	1402.00	1.42	0.0000
45 Sc	1523925.00 A	17440.00	1.14	0.0000
47 Ti	6316.10 P	62.52	0.99	0.9998
51 V	161320.00 P	2272.00	1.41	0.9994
52 Cr	179336.20 P	1262.00	0.70	1.0000
55 Mn	136966.41 P	606.40	0.59	0.9998
56 Fe	3466730.00 A	34680.00	1.00	1.0000
59 Co	254063.59 P	2599.00	1.02	0.9995
60 Ni	64869.85 P	669.40	1.02	0.9997
63 Cu	172209.41 P	983.40	0.57	0.9999
65 Cu	82567.48 P	346.90	0.42	1.0000
66 Zn	30294.80 P	353.70	1.17	0.9973
72 Ge	98255.19 P	550.50	0.56	0.0000
72 Ge	46262.59 P	34.38	0.07	0.0000
72 Ge	211131.20 P	2095.00	0.99	0.0000
75 As	20258.79 P	48.21	0.24	1.0000
78 Se	8196.34 P	137.70	1.68	1.0000
78 Se	2352.20 P	19.65	0.84	0.9963
88 Sr	152226.41 P	2676.00	1.76	0.9999
88 Sr	853159.19 P	3826.00	0.45	1.0000
95 Mo	152546.09 P	1308.00	0.86	0.9999
106 (Cd)	7779.08 P	43.36	0.56	0.9995
107 Ag	203275.00 P	1362.00	0.67	1.0000
108 (Cd)	5850.30 P	115.70	1.98	0.9966
111 Cd	85595.10 P	417.50	0.49	1.0000
115 In	1359449.00 A	15030.00	1.11	0.0000
118 Sn	233787.30 P	2145.00	0.92	0.9998
121 Sb	303264.81 P	1162.00	0.38	1.0000
137 Ba	112289.00 P	1153.00	1.03	1.0000
159 Tb	1852128.00 A	3859.00	0.21	0.0000
165 Ho	1866389.00 A	18420.00	0.99	0.0000
205 Tl	767163.63 P	3647.00	0.48	1.0000
206 (Pb)	267422.81 P	439.20	0.16	0.9998
207 (Pb)	229702.30 P	967.40	0.42	0.9996
208 Pb	1066559.00 P	3421.00	0.32	0.9997

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3129745.00	1.45	2775704.50	112.8	70 -	120
45 Sc	522323.34	0.92	500780.41	104.3	70 -	120
45 Sc	98761.96	1.42	95494.08	103.4	70 -	120
45 Sc	1523925.40	1.14	1460980.80	104.3	70 -	120
72 Ge	98255.19	0.56	96219.04	102.1	70 -	120
72 Ge	46262.59	0.07	43611.78	106.1	70 -	120
72 Ge	211131.19	0.99	213204.63	99.0	70 -	120
115 In	1359449.00	1.11	1381264.00	98.4	70 -	120
159 Tb	1852128.10	0.21	1843940.90	100.4	70 -	120
165 Ho	1866389.00	0.99	1844184.90	101.2	70 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Pass
 ISTD: Pass

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#
 Date Acquired: Nov 11 2011 12:33 pm
 Operator: NBS
 Sample Name: 111111 Standard 4
 Misc Info:
 Vial Number: 1106
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:30 pm
 Sample Type: Calstd
 Total Dil Factor: 1.00

QC&ISTD Elements

Element	CPS Mean	SD	RSD(%)	Cal Coef
6 Li	3091825.00 A	34660.00	1.12	0.0000
7 (Li)	169207.09 P	2476.00	1.46	0.7966
9 Be	1184909.00 A	5168.00	0.44	1.0000
11 B	825041.63 A	8516.00	1.03	1.0000
23 Na	2686206.00 A	10730.00	0.40	0.9984
24 Mg	2535966.00 A	10300.00	0.41	1.0000
27 Al	366543.31 P	3283.00	0.90	1.0000
39 K	1039409.00 A	8793.00	0.85	0.9999
44 Ca	104136.20 P	1221.00	1.17	1.0000
45 Sc	526807.38 P	1501.00	0.28	0.0000
45 Sc	100637.20 P	272.50	0.27	0.0000
45 Sc	1546820.00 A	41280.00	2.67	0.0000
47 Ti	12883.09 P	335.40	2.60	1.0000
51 V	324487.59 P	1452.00	0.45	1.0000
52 Cr	360663.69 P	2389.00	0.66	1.0000
55 Mn	247566.30 P	2662.00	1.16	0.9063
56 Fe	6831163.00 A	89870.00	1.32	1.0000
59 Co	505973.59 P	1092.00	0.22	1.0000
60 Ni	128756.60 P	486.80	0.38	1.0000
63 Cu	331294.91 P	1236.00	0.37	0.9984
65 Cu	158678.41 P	595.70	0.38	0.9983
66 Zn	58476.31 P	247.90	0.42	0.9998
72 Ge	100101.50 P	582.20	0.58	0.0000
72 Ge	46752.66 P	94.61	0.20	0.0000
72 Ge	215920.09 P	4942.00	2.29	0.0000
75 As	41314.20 P	335.50	0.81	1.0000
78 Se	16782.86 P	111.00	0.66	1.0000
78 Se	4841.04 P	45.62	0.94	1.0000
88 Sr	308415.19 P	2179.00	0.71	1.0000
88 Sr	1836004.00 A	12020.00	0.65	1.0000
95 Mo	308376.41 P	620.60	0.20	1.0000
106 (Cd)	15606.90 P	85.03	0.54	1.0000
107 Ag	402429.69 P	2133.00	0.53	1.0000
108 (Cd)	11361.61 P	175.20	1.54	1.0000
111 Cd	169137.09 P	1111.00	0.66	1.0000
115 In	1356694.00 A	39030.00	2.88	0.0000
118 Sn	461432.81 P	1252.00	0.27	1.0000
121 Sb	616792.50 P	2811.00	0.46	1.0000
137 Ba	224905.80 P	424.60	0.19	1.0000
159 Tb	1896056.00 A	51090.00	2.69	0.0000
165 Ho	1892444.00 A	47210.00	2.49	0.0000
205 Tl	1621888.00 A	15450.00	0.95	1.0000
206 (Pb)	524239.50 P	2392.00	0.46	1.0000
207 (Pb)	454785.81 P	2844.00	0.63	1.0000
208 Pb	2164409.00 A	4337.00	0.20	1.0000

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3091824.50	1.12	2775704.50	111.4	70 -	120
45 Sc	526807.44	0.28	500780.41	105.2	70 -	120
45 Sc	100637.22	0.27	95494.08	105.4	70 -	120
45 Sc	1546819.60	2.67	1460980.80	105.9	70 -	120
72 Ge	100101.52	0.58	96219.04	104.0	70 -	120
72 Ge	46752.66	0.20	43611.78	107.2	70 -	120
72 Ge	215920.11	2.29	213204.63	101.3	70 -	120
115 In	1356693.50	2.88	1391264.00	98.2	70 -	120
159 Tb	1896055.90	2.69	1843940.90	102.8	70 -	120
165 Ho	1892443.90	2.49	1844184.90	102.6	70 -	120

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

--- :Element Failures --- :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
 Analytes: Pass
 ISTD: Pass

QCS QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\009_QCS.D\009_QCS.D#
 Date Acquired: Nov 11 2011 12:39 pm
 Operator: NBS
 Sample Name: ICV 111111
 Misc Info:
 Vial Number: 1107
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: QCS
 Total Dil Factor: 1.00

QC Elements	Conc.	RSD(%)	Expected QC	Range(%)	Flag
7 (Li)	----- ug/l	-----	100.00	90 - 110	
9 Be	107.60 ug/l	0.95	100.00	90 - 110	
11 B	105.70 ug/l	0.67	100.00	90 - 110	
23 Na	2518.00 ug/l	0.81	2500.00	90 - 110	
24 Mg	2533.00 ug/l	0.67	2500.00	90 - 110	
27 Al	2547.00 ug/l	1.32	2500.00	90 - 110	
39 K	2615.00 ug/l	0.71	2500.00	90 - 110	
44 Ca	2519.00 ug/l	0.47	2500.00	90 - 110	
47 Ti	97.29 ug/l	0.90	100.00	90 - 110	
51 V	103.40 ug/l	0.55	100.00	90 - 110	
52 Cr	106.50 ug/l	0.63	100.00	90 - 110	
55 Mn	106.70 ug/l	0.21	100.00	90 - 110	
56 Fe	2516.00 ug/l	1.06	2500.00	90 - 110	
59 Co	104.60 ug/l	0.25	100.00	90 - 110	
60 Ni	104.70 ug/l	0.28	100.00	90 - 110	
63 Cu	102.50 ug/l	1.70	100.00	90 - 110	
65 Cu	102.20 ug/l	1.45	100.00	90 - 110	
66 Zn	104.10 ug/l	1.10	100.00	90 - 110	
75 As	98.86 ug/l	1.38	100.00	90 - 110	
78 Se	103.60 ug/l	1.81	100.00	90 - 110	
78 Se	104.10 ug/l	2.03	100.00	90 - 110	
88 Sr	101.20 ug/l	1.63	100.00	90 - 110	
88 Sr	104.30 ug/l	0.60	100.00	90 - 110	
95 Mo	96.15 ug/l	1.35	100.00	90 - 110	
106 (Cd)	----- ug/l	-----	100.00	90 - 110	
107 Ag	46.26 ug/l	0.71	50.00	90 - 110	
108 (Cd)	----- ug/l	-----	100.00	90 - 110	
111 Cd	103.60 ug/l	0.47	100.00	90 - 110	
118 Sn	43.82 ug/l	0.17	50.00	90 - 110	Fail
121 Sb	102.70 ug/l	0.18	100.00	90 - 110	
137 Ba	99.56 ug/l	0.34	100.00	90 - 110	
205 Tl	106.40 ug/l	1.20	100.00	90 - 110	
206 (Pb)	----- ug/l	-----	100.00	90 - 110	
207 (Pb)	----- ug/l	-----	100.00	90 - 110	
208 Pb	106.30 ug/l	0.89	100.00	90 - 110	

ISTD Elements	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3157481.00	0.39	2775704.50	113.8	70 - 120	
45 Sc	523431.13	0.16	500780.41	104.5	70 - 120	
45 Sc	100384.52	0.40	95494.08	105.1	70 - 120	
45 Sc	1532510.60	0.50	1460980.80	104.9	70 - 120	
72 Ge	99727.78	0.25	96219.04	103.6	70 - 120	
72 Ge	46938.75	0.91	43611.78	107.6	70 - 120	
72 Ge	212917.78	0.32	213204.63	99.9	70 - 120	
115 In	1371120.50	0.09	1381264.00	99.3	70 - 120	
159 Tb	1873353.00	0.83	1843940.90	101.6	70 - 120	
165 Ho	1868336.50	1.05	1844184.90	101.3	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
 Analytes: Fail
 ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\012_CCB.D\012_CCB.D#
 Date Acquired: Nov 11 2011 12:57 pm
 Operator: NBS
 Sample Name: ICB 111111
 Misc Info:
 Vial Number: 1102
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Elements	Element	Conc.	RSD(%)	High Limit	Flag
	7 (Li)	----- ug/l	-----	#VALUE!	
	9 Be	0.00 ug/l	64.25	0.12	
	11 B	0.03 ug/l	45.15	15.00	
	23 Na	7.71 ug/l	8.18	77.10	
	24 Mg	0.10 ug/l	55.44	7.50	
	27 Al	0.09 ug/l	51.89	3.96	
	39 K	-16.07 ug/l	31.35	19.20	
	44 Ca	2.26 ug/l	102.26	90.00	
	47 Ti	0.02 ug/l	221.48	0.78	
	51 V	0.57 ug/l	2.59	0.21	Fail
	52 Cr	0.01 ug/l	92.18	0.12	
	55 Mn	0.00 ug/l	249.24	0.18	
	56 Fe	0.25 ug/l	4.89	40.80	
	59 Co	-0.25 ug/l	1.58	0.09	
	60 Ni	0.00 ug/l	280.61	0.48	
	63 Cu	-0.13 ug/l	3.22	0.39	
	65 Cu	-0.13 ug/l	16.74	0.39	
	66 Zn	-0.01 ug/l	406.21	6.90	
	75 As	-0.09 ug/l	15.13	0.27	
	78 Se	0.01 ug/l	58.10	0.30	
	78 Se	0.05 ug/l	139.53	0.30	
	88 Sr	0.00 ug/l	1034.40	0.03	
	88 Sr	0.00 ug/l	24.09	0.03	
	95 Mo	0.03 ug/l	16.72	0.21	
	106 (Cd)	----- ug/l	-----	#VALUE!	
	107 Ag	0.00 ug/l	50.39	0.09	
	108 (Cd)	----- ug/l	-----	#VALUE!	
	111 Cd	0.01 ug/l	58.78	0.06	
	118 Sn	0.03 ug/l	55.51	0.30	
	121 Sb	0.13 ug/l	5.57	0.03	Fail
	137 Ba	0.01 ug/l	116.79	0.12	
	205 Tl	0.01 ug/l	38.28	0.03	
	206 (Pb)	----- ug/l	-----	#VALUE!	
	207 (Pb)	----- ug/l	-----	#VALUE!	
	208 Pb	-0.20 ug/l	0.78	0.33	

ISTD Elements	Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
	6 Li	3073279.00	0.84	2775704.50	110.7	70 - 120	
	45 Sc	545909.38	3.12	500780.41	109.0	70 - 120	
	45 Sc	100165.70	0.44	95494.08	104.9	70 - 120	
	45 Sc	1499557.30	0.22	1460980.80	102.6	70 - 120	
	72 Ge	101795.60	2.62	96219.04	105.8	70 - 120	
	72 Ge	46734.16	0.18	43611.78	107.2	70 - 120	
	72 Ge	210654.83	0.54	213204.63	98.8	70 - 120	
	115 In	1336860.30	0.89	1381264.00	96.8	70 - 120	
	159 Tb	1657728.00	1.11	1843940.90	100.7	70 - 120	
	165 Ho	1856236.60	1.27	1844184.90	100.7	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\013_CC.V.D\013_CC.V.D#
 Date Acquired: Nov 11 2011 01:03 pm
 Operator: NBS
 Sample Name: CCV 111111
 Misc Info:
 Vial Number: 1105
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	Expected QC Range(%)	Flag
7 (Li)	----- ug/l	-----	50.00 90 - 110	
9 Be	45.86 ug/l	1.99	50.00 90 - 110	
11 B	43.69 ug/l	2.15	50.00 90 - 110	Fail
23 Na	1276.00 ug/l	1.53	1250.00 90 - 110	
24 Mg	2559.00 ug/l	1.05	2500.00 90 - 110	
27 Al	1001.00 ug/l	1.70	1000.00 90 - 110	
39 K	917.90 ug/l	1.26	1000.00 90 - 110	
44 Ca	2498.00 ug/l	1.41	2500.00 90 - 110	
47 Ti	49.40 ug/l	0.95	50.00 90 - 110	
51 V	50.61 ug/l	1.18	50.00 90 - 110	
52 Cr	50.27 ug/l	1.38	50.00 90 - 110	
55 Mn	54.78 ug/l	1.56	50.00 90 - 110	
56 Fe	1027.00 ug/l	1.77	1000.00 90 - 110	
59 Co	50.74 ug/l	0.93	50.00 90 - 110	
60 Ni	50.88 ug/l	1.81	50.00 90 - 110	
63 Cu	50.81 ug/l	0.58	50.00 90 - 110	
65 Cu	50.69 ug/l	0.50	50.00 90 - 110	
66 Zn	51.32 ug/l	0.03	50.00 90 - 110	
75 As	49.12 ug/l	0.62	50.00 90 - 110	
78 Se	50.32 ug/l	1.71	50.00 90 - 110	
78 Se	49.06 ug/l	1.10	50.00 90 - 110	
88 Sr	49.93 ug/l	0.31	50.00 90 - 110	
88 Sr	47.83 ug/l	0.44	50.00 90 - 110	
95 Mo	50.08 ug/l	0.70	50.00 90 - 110	
106 (Cd)	----- ug/l	-----	50.00 90 - 110	
107 Ag	24.63 ug/l	0.57	25.00 90 - 110	
108 (Cd)	----- ug/l	-----	50.00 90 - 110	
111 Cd	50.07 ug/l	1.49	50.00 90 - 110	
118 Sn	50.35 ug/l	0.28	50.00 90 - 110	
121 Sb	49.48 ug/l	0.77	50.00 90 - 110	
137 Ba	49.18 ug/l	0.66	50.00 90 - 110	
205 Tl	48.89 ug/l	0.40	50.00 90 - 110	
206 (Pb)	----- ug/l	-----	50.00 90 - 110	
207 (Pb)	----- ug/l	-----	50.00 90 - 110	
208 Pb	50.31 ug/l	0.14	50.00 90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3009330.80	0.85	2775704.50	108.4	70 - 120	
45 Sc	502422.56	3.92	500780.41	100.3	70 - 120	
45 Sc	98428.88	1.42	95494.08	103.1	70 - 120	
45 Sc	1480640.80	1.02	1460980.80	101.3	70 - 120	
72 Ge	97237.93	2.52	96219.04	101.1	70 - 120	
72 Ge	46537.16	0.17	43611.78	106.7	70 - 120	
72 Ge	206334.70	0.20	213204.63	96.8	70 - 120	
115 In	1333758.10	0.36	1381264.00	96.6	70 - 120	
159 Tb	1832635.60	0.51	1843940.90	99.4	70 - 120	
165 Ho	1824652.90	0.58	1844184.90	98.9	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\014_CCB.D\014_CCB.D#
 Date Acquired: Nov 11 2011 01:09 pm
 Operator: NBS
 Sample Name: CCB 111111
 Misc Info:
 Vial Number: 1102
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Elements	Conc.	RSD(%)	High Limit	Flag
7 (Li)	----- ug/l	-----	#VALUE!	
9 Be	0.00 ug/l	75.05	0.12	
11 B	0.19 ug/l	2.24	15.00	
23 Na	3.09 ug/l	28.12	77.10	
24 Mg	0.17 ug/l	59.53	7.50	
27 Al	0.11 ug/l	49.92	3.96	
39 K	-13.77 ug/l	41.47	19.20	
44 Ca	1.49 ug/l	82.56	90.00	
47 Ti	0.00 ug/l	584.34	0.78	
51 V	0.76 ug/l	2.01	0.21	Fail
52 Cr	0.02 ug/l	22.00	0.12	
55 Mn	0.01 ug/l	26.62	0.18	
56 Fe	0.44 ug/l	10.30	40.80	
59 Co	-0.27 ug/l	0.49	0.09	
60 Ni	0.00 ug/l	169.21	0.48	
63 Cu	-0.16 ug/l	12.22	0.39	
65 Cu	-0.16 ug/l	4.20	0.39	
66 Zn	0.03 ug/l	67.54	6.90	
75 As	-0.03 ug/l	60.04	0.27	
78 Se	0.10 ug/l	23.77	0.30	
78 Se	0.02 ug/l	138.81	0.30	
88 Sr	0.00 ug/l	574.89	0.03	
88 Sr	0.00 ug/l	33.45	0.03	
95 Mo	0.10 ug/l	2.35	0.21	
106 (Cd)	----- ug/l	-----	#VALUE!	
107 Ag	0.00 ug/l	6.78	0.09	
108 (Cd)	----- ug/l	-----	#VALUE!	
111 Cd	0.01 ug/l	137.32	0.06	
118 Sn	0.06 ug/l	31.67	0.30	
121 Sb	0.69 ug/l	6.56	0.03	Fail
137 Ba	0.01 ug/l	127.23	0.12	
205 Tl	0.02 ug/l	7.09	0.03	
206 (Pb)	----- ug/l	-----	#VALUE!	
207 (Pb)	----- ug/l	-----	#VALUE!	
208 Pb	-0.21 ug/l	0.72	0.33	

ISTD Elements	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2980962.00	0.72	2775704.50	107.4	70 - 120	
45 Sc	505025.28	3.19	500780.41	100.8	70 - 120	
45 Sc	97675.82	0.75	95494.08	102.3	70 - 120	
45 Sc	1485366.30	0.36	1460980.80	101.7	70 - 120	
72 Ge	97202.46	2.05	96219.04	101.0	70 - 120	
72 Ge	45665.85	0.21	43611.78	104.7	70 - 120	
72 Ge	205716.23	0.30	213204.63	96.5	70 - 120	
115 In	1321174.40	0.50	1381264.00	95.6	70 - 120	
159 Tb	1807747.90	0.40	1843940.90	98.0	70 - 120	
165 Ho	1813776.00	0.73	1844184.90	98.4	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Pass

ICSA-A QC Report

Data File: C:\ICPCHEM\1\DATA\11K1100.B\015ICSA.D\015ICSA.D#
 Date Acquired: Nov 11 2011 01:15 pm
 Acq. Method: 62A1111A.M
 Operator: NBS
 Sample Name: ICSA 111111
 Misc Info:
 Vial Number: 2102
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last cal. Update: Nov 11 2011 12:36 pm
 Sample Type: ICSA
 Dilution Factor: 1.00

Data Results:
 Analytes: Pass
 ISTD: Pass

QC Elements	Element	IS Ref	Tune	Conc.	RSD (%)	High Limit ppb	Flag
	7 (Li)	---	3	ug/l	-----		
	9 Be	45	3	0.83 ug/l	2.55		
	11 B	45	3	1.56 ug/l	2.76		
	23 Na	45	2	93250.00 ug/l	0.74		
	24 Mg	45	2	91170.00 ug/l	1.03		
	27 Al	45	2	104800.00 ug/l	1.31		
	39 K	45	2	95010.00 ug/l	0.86		
	44 Ca	45	2	101900.00 ug/l	1.03		
	47 Ti	45	2	1961.00 ug/l	0.73		
	51 V	45	2	2.53 ug/l	1.39		
	52 Cr	45	2	2.35 ug/l	1.68		
	55 Mn	45	2	7.50 ug/l	0.84		
	56 Fe	45	2	92610.00 ug/l	0.44		
	59 Co	45	2	20.49 ug/l	0.50		
	60 Ni	45	2	3.86 ug/l	0.68		
	63 Cu	72	2	1.60 ug/l	2.77		
	65 Cu	72	2	1.70 ug/l	4.01		
	66 Zn	72	2	5.11 ug/l	1.25		
	75 As	72	2	1.55 ug/l	3.09		
	78 Se	72	1	1.07 ug/l	5.94		
	78 Se	72	2	1.16 ug/l	9.00		
	88 Sr	72	2	1.41 ug/l	4.62		
	88 Sr	72	3	1.37 ug/l	1.32		
	95 Mo	72	3	1834.00 ug/l	1.74		
	106 (Cd)	---	3	ug/l	-----		
	107 Ag	115	3	1.97 ug/l	1.05		
	108 (Cd)	---	3	ug/l	-----		
	111 Cd	115	3	2.42 ug/l	3.67		
	118 Sn	115	3	1.18 ug/l	1.50		
	121 Sb	115	3	1.93 ug/l	2.34		
	137 Ba	115	3	3.88 ug/l	2.04		
	205 Tl	159	3	1.62 ug/l	1.90		
	206 (Pb)	---	3	ug/l	-----		
	207 (Pb)	---	3	ug/l	-----		
	208 Pb	159	3	3.50 ug/l	0.41		

ISTD Elements	Element	Tune	CPS Mean	RSD (%)	Ref Value	Rec (%)	QC Range (%)	Flag
	6 Li	3	2777926	0.73	2775705	100.1	70 - 120	
	45 Sc	1	527513	3.31	500780	105.3	70 - 120	
	45 Sc	2	94664	0.69	95494	99.1	70 - 120	
	45 Sc	3	1465735	0.50	1460981	100.3	70 - 120	
	72 Ge	1	98457	2.56	96219	102.3	70 - 120	
	72 Ge	2	46798	1.22	43612	107.3	70 - 120	
	72 Ge	3	216093	0.53	213205	101.4	70 - 120	
	115 In	3	1235992	0.56	1381264	89.5	70 - 120	
	159 Tb	3	1778881	0.42	1843941	96.5	70 - 120	
	165 Ho	3	1783575	1.04	1844185	96.7	70 - 120	

Tune File# 1 c:\icpchem\1\7500\h2.u
 Tune File# 2 c:\icpchem\1\7500\he.u
 Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\11K1100.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :MAX. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

ICS-AB QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\0161CSB.D\0161CSB.D#
 Date Acquired: Nov 11 2011 01:21 pm
 Acq. Method: 62A1111A.M
 Operator: NBS
 Sample Name: ICSAB 111111
 Misc Info:
 Vial Number: 2103
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal. Update: Nov 11 2011 12:36 pm
 Sample Type: ICSAB
 Dilution Factor: 1.00

Data Results:
 Analytes: Pass
 ISTD: Pass

QC Elements									
Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	%Recovery	QC Range(%)	Flag	
7 (Li)	---	3	---	-----	---	---	---	-	
9 Be	45	3	246.60	1.11	250	98.6	80 - 120	-	
11 B	45	3	1.63	0.34	---	---	---	-	
23 Na	45	2	96100.00	0.19	---	---	---	-	
24 Mg	45	2	93890.00	0.39	---	---	---	-	
27 Al	45	2	107500.00	1.06	---	---	---	-	
39 K	45	2	97710.00	0.66	---	---	---	-	
44 Ca	45	2	105500.00	1.05	---	---	---	-	
47 Ti	45	2	2014.00	0.31	2000	100.7	80 - 120	-	
51 V	45	2	267.30	0.98	250	108.9	80 - 120	-	
52 Cr	45	2	270.40	2.94	250	108.2	80 - 120	-	
55 Mn	45	2	264.30	0.56	250	106.7	80 - 120	-	
56 Fe	45	2	94360.00	0.20	---	---	---	-	
59 Co	45	2	282.40	0.78	250	113.0	80 - 120	-	
60 Ni	45	2	481.90	0.90	500	98.4	80 - 120	-	
63 Cu	72	2	218.20	1.17	250	87.3	80 - 120	-	
65 Cu	72	2	218.60	0.91	250	87.4	80 - 120	-	
66 Zn	72	2	513.60	0.37	500	102.7	80 - 120	-	
75 As	72	2	239.20	0.52	250	95.7	80 - 120	-	
78 Se	72	1	251.50	0.86	250	100.6	80 - 120	-	
78 Se	72	2	233.50	0.80	250	93.4	80 - 120	-	
88 Sr	72	2	1.62	0.60	---	---	---	-	
88 Sr	72	3	1.51	0.87	---	---	---	-	
95 Mo	72	3	2131.00	0.52	2000	108.6	80 - 120	-	
106 (Cd)	---	3	---	-----	---	---	---	-	
107 Ag	115	3	535.90	1.10	500	107.2	80 - 120	-	
108 (Cd)	---	3	---	-----	---	---	---	-	
111 Cd	115	3	495.00	0.98	500	99.0	80 - 120	-	
118 Sn	115	3	1.45	2.79	---	---	---	-	
121 Sb	115	3	274.60	0.82	250	109.8	80 - 120	-	
137 Ba	115	3	271.00	0.98	250	108.4	80 - 120	-	
205 Tl	159	3	252.50	0.03	250	101.0	80 - 120	-	
206 (Pb)	---	3	---	-----	---	---	---	-	
207 (Pb)	---	3	---	-----	---	---	---	-	
208 Pb	159	3	502.00	0.13	500	100.4	80 - 120	-	

ISTD Elements									
Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag		
6 Li	3	2732517	0.30	2775705	98.4	70 - 120	-		
45 Sc	1	511020	0.99	500780	102.0	70 - 120	-		
45 Sc	2	93932	0.16	95494	98.4	70 - 120	-		
45 Sc	3	1418244	0.91	1450981	97.1	70 - 120	-		
72 Ge	1	96432	0.78	96219	100.2	70 - 120	-		
72 Ge	2	46185	0.98	43612	105.9	70 - 120	-		
72 Ge	3	209601	0.65	213205	98.3	70 - 120	-		
115 In	3	1203221	0.93	1381264	87.1	70 - 120	-		
159 Tb	3	1775149	0.42	1843941	96.3	70 - 120	-		
165 Ho	3	1779108	0.39	1844185	96.5	70 - 120	-		

Tune File# 1 c:\icpchem\1\7500\h2.u
 Tune File# 2 c:\icpchem\1\7500\he.u
 Tune File# 3 c:\icpchem\1\7500\nogas.u

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\018_CCV.D\018_CCV.D#
 Date Acquired: Nov 11 2011 01:33 pm
 Operator: NBS
 Sample Name: CCV 111111
 Misc Info:
 Vial Number: 1105
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	Expected QC	Range(%)	Flag
7 (Li)	----- ug/l	-----	50.00	90 - 110	
9 Be	45.54 ug/l	0.43	50.00	90 - 110	
11 B	42.52 ug/l	0.69	50.00	90 - 110	Fail
23 Na	1232.00 ug/l	0.90	1250.00	90 - 110	
24 Mg	2553.00 ug/l	1.13	2500.00	90 - 110	
27 Al	1002.00 ug/l	1.24	1000.00	90 - 110	
39 K	910.10 ug/l	0.77	1000.00	90 - 110	
44 Ca	2506.00 ug/l	0.99	2500.00	90 - 110	
47 Ti	49.11 ug/l	2.38	50.00	90 - 110	
51 V	50.62 ug/l	1.42	50.00	90 - 110	
52 Cr	49.48 ug/l	1.20	50.00	90 - 110	
55 Mn	54.25 ug/l	1.47	50.00	90 - 110	
56 Fe	1014.00 ug/l	0.73	1000.00	90 - 110	
59 Co	50.51 ug/l	0.59	50.00	90 - 110	
60 Ni	50.70 ug/l	1.36	50.00	90 - 110	
63 Cu	49.70 ug/l	0.40	50.00	90 - 110	
65 Cu	49.73 ug/l	0.19	50.00	90 - 110	
66 Zn	49.96 ug/l	0.97	50.00	90 - 110	
75 As	48.64 ug/l	0.06	50.00	90 - 110	
78 Se	48.54 ug/l	0.17	50.00	90 - 110	
78 Se	48.82 ug/l	0.30	50.00	90 - 110	
88 Sr	49.77 ug/l	0.41	50.00	90 - 110	
88 Sr	48.29 ug/l	0.56	50.00	90 - 110	
95 Mo	51.00 ug/l	1.55	50.00	90 - 110	
106 (Cd)	----- ug/l	-----	50.00	90 - 110	
107 Ag	25.03 ug/l	0.97	25.00	90 - 110	
108 (Cd)	----- ug/l	-----	50.00	90 - 110	
111 Cd	49.94 ug/l	1.03	50.00	90 - 110	
118 Sn	51.03 ug/l	1.26	50.00	90 - 110	
121 Sb	50.47 ug/l	0.55	50.00	90 - 110	
137 Ba	50.01 ug/l	0.80	50.00	90 - 110	
205 Tl	48.64 ug/l	0.31	50.00	90 - 110	
206 (Pb)	----- ug/l	-----	50.00	90 - 110	
207 (Pb)	----- ug/l	-----	50.00	90 - 110	
208 Pb	50.34 ug/l	1.15	50.00	90 - 110	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3132762.00	0.73	2775704.50	112.9	70 - 120	
45 Sc	534639.31	0.21	500780.41	106.8	70 - 120	
45 Sc	99077.84	0.49	95494.08	103.8	70 - 120	
45 Sc	1513729.60	0.46	1460980.80	103.6	70 - 120	
72 Ge	102211.11	0.47	96219.04	106.2	70 - 120	
72 Ge	47244.57	0.27	43611.78	108.3	70 - 120	
72 Ge	214737.88	0.60	213204.63	100.7	70 - 120	
115 In	1389034.00	1.09	1381264.00	100.6	70 - 120	
159 Tb	1908915.90	0.41	1843940.90	103.5	70 - 120	
165 Ho	1921136.40	0.48	1844184.90	104.2	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\020_CCB.D\020_CCB.D#
 Date Acquired: Nov 11 2011 01:46 pm
 Operator: NBS
 Sample Name: CCB 111111
 Misc Info:
 Vial Number: 1102
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Elements	Element	Conc.	RSD(%)	High Limit	Flag
	7 (Li)	----- ug/l	-----	#VALUE!	
	9 Be	0.00 ug/l	342.89	0.12	
	11 B	-0.21 ug/l	27.87	15.00	
	23 Na	-22.55 ug/l	2.00	77.10	
	24 Mg	0.32 ug/l	24.61	7.50	
	27 Al	0.31 ug/l	30.94	3.96	
	39 K	-13.04 ug/l	28.54	19.20	
	44 Ca	-2.47 ug/l	54.66	90.00	
	47 Ti	0.02 ug/l	115.52	0.78	
	51 V	1.17 ug/l	4.59	0.21	Fail
	52 Cr	0.01 ug/l	119.76	0.12	
	55 Mn	0.00 ug/l	605.19	0.18	
	56 Fe	0.83 ug/l	6.77	40.80	
	59 Co	-0.30 ug/l	0.59	0.09	
	60 Ni	0.00 ug/l	211.25	0.48	
	63 Cu	-0.31 ug/l	1.69	0.39	
	65 Cu	-0.31 ug/l	4.87	0.39	
	66 Zn	0.00 ug/l	866.90	6.90	
	75 As	-0.07 ug/l	27.14	0.27	
	78 Se	0.03 ug/l	41.10	0.30	
	78 Se	0.07 ug/l	100.62	0.30	
	88 Sr	0.00 ug/l	114.02	0.03	
	88 Sr	0.00 ug/l	18.44	0.03	
	95 Mo	0.09 ug/l	4.01	0.21	
	106 (Cd)	----- ug/l	-----	#VALUE!	
	107 Ag	0.01 ug/l	12.14	0.09	
	108 (Cd)	----- ug/l	-----	#VALUE!	
	111 Cd	0.00 ug/l	1077.10	0.06	
	118 Sn	0.03 ug/l	30.18	0.30	
	121 Sb	0.29 ug/l	4.29	0.03	Fail
	137 Ba	0.01 ug/l	115.49	0.12	
	205 Tl	0.01 ug/l	19.13	0.03	
	206 (Pb)	----- ug/l	-----	#VALUE!	
	207 (Pb)	----- ug/l	-----	#VALUE!	
	208 Pb	-0.21 ug/l	1.63	0.33	

ISTD Elements	Element	CPS Mean	RSD(%)	Ref Value	Rec (%)	QC Range (%)	Flag
	6 Li	3042523.00	0.11	2775704.50	109.6	70 - 120	
	45 Sc	529492.56	0.66	500780.41	105.7	70 - 120	
	45 Sc	97690.27	0.93	95494.08	102.3	70 - 120	
	45 Sc	1482243.40	0.75	1460980.80	101.5	70 - 120	
	72 Ge	101254.01	0.60	96219.04	105.2	70 - 120	
	72 Ge	46065.66	0.31	43611.78	105.6	70 - 120	
	72 Ge	210454.86	0.84	213204.63	98.7	70 - 120	
	115 In	1353362.30	0.71	1381264.00	98.0	70 - 120	
	159 Tb	1859786.10	0.52	1843940.90	100.9	70 - 120	
	165 Ho	1863063.90	0.81	1844184.90	101.0	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

2 : Element Failures 0 : Max. Number of Failures Allowed
 0 : ISTD Failures 0 : Max. Number of ISTD Failures Allowed

Data Results:
 Analytes: Fail
 ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\032_CCV.D\032_CCV.D#
 Date Acquired: Nov 11 2011 03:05 pm
 Operator: NBS
 Sample Name: CCV 111111
 Misc Info:
 Vial Number: 1105
 Current Method: C:\ICPCHEM\1\METHODS\G2A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\G2A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	Expected QC	Range(%)	Flag
7 (Li)	----- ug/l	-----	50.00	90 - 110	
9 Be	45.98 ug/l	0.90	50.00	90 - 110	
11 B	43.38 ug/l	1.83	50.00	90 - 110	Fail
23 Na	1250.00 ug/l	2.32	1250.00	90 - 110	
24 Mg	2541.00 ug/l	1.13	2500.00	90 - 110	
27 Al	992.10 ug/l	1.33	1000.00	90 - 110	
39 K	905.50 ug/l	1.76	1000.00	90 - 110	
44 Ca	2473.00 ug/l	1.61	2500.00	90 - 110	
47 Ti	49.01 ug/l	0.71	50.00	90 - 110	
51 V	50.64 ug/l	0.61	50.00	90 - 110	
52 Cr	49.61 ug/l	0.94	50.00	90 - 110	
55 Mn	54.01 ug/l	0.87	50.00	90 - 110	
56 Fe	1013.00 ug/l	1.52	1000.00	90 - 110	
59 Co	50.36 ug/l	0.94	50.00	90 - 110	
60 Ni	51.02 ug/l	1.41	50.00	90 - 110	
63 Cu	49.96 ug/l	0.98	50.00	90 - 110	
65 Cu	49.87 ug/l	0.48	50.00	90 - 110	
66 Zn	50.14 ug/l	1.34	50.00	90 - 110	
75 As	48.56 ug/l	0.79	50.00	90 - 110	
78 Se	47.94 ug/l	1.13	50.00	90 - 110	
78 Se	48.27 ug/l	2.37	50.00	90 - 110	
88 Sr	50.07 ug/l	0.24	50.00	90 - 110	
88 Sr	46.85 ug/l	0.80	50.00	90 - 110	
95 Mo	48.88 ug/l	0.75	50.00	90 - 110	
106 (Cd)	----- ug/l	-----	50.00	90 - 110	
107 Ag	24.26 ug/l	1.57	25.00	90 - 110	
108 (Cd)	----- ug/l	-----	50.00	90 - 110	
111 Cd	49.33 ug/l	0.71	50.00	90 - 110	
118 Sn	50.24 ug/l	1.40	50.00	90 - 110	
121 Sb	49.54 ug/l	1.18	50.00	90 - 110	
137 Ba	49.63 ug/l	2.49	50.00	90 - 110	
205 Tl	48.65 ug/l	0.58	50.00	90 - 110	
206 (Pb)	----- ug/l	-----	50.00	90 - 110	
207 (Pb)	----- ug/l	-----	50.00	90 - 110	
208 Pb	49.96 ug/l	0.90	50.00	90 - 110	

ISTD Elements

Element	CPB Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3188763.30	1.52	2775704.50	114.9	70 - 120	
45 Sc	530164.38	0.11	500780.41	105.9	70 - 120	
45 Sc	96337.35	1.21	95494.08	100.9	70 - 120	
45 Sc	1476239.00	1.18	1460980.80	101.0	70 - 120	
72 Ge	102958.30	0.45	96219.04	107.0	70 - 120	
72 Ge	45995.51	1.09	43611.78	105.5	70 - 120	
72 Ge	211979.86	0.56	213204.63	99.4	70 - 120	
115 In	1355180.90	1.54	1381264.00	98.1	70 - 120	
159 Tb	1863114.30	0.80	1843940.90	101.0	70 - 120	
165 Ho	1880561.90	0.45	1844184.90	102.0	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\034_CCB.D\034_CCB.D#
 Date Acquired: Nov 11 2011 03:17 pm
 Operator: NBS
 Sample Name: CCB 111111
 Misc Info:
 Vial Number: 1102
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Elements	Conc.	RSD(%)	High Limit	Flag
7 (Li)	----- ug/l	-----	#VALUE!	
9 Be	0.00 ug/l	69.30	0.12	
11 B	-0.21 ug/l	1.18	15.00	
23 Na	-12.29 ug/l	7.14	77.10	
24 Mg	0.25 ug/l	17.30	7.50	
27 Al	0.17 ug/l	52.39	3.96	
39 K	-13.38 ug/l	34.73	19.20	
44 Ca	-0.64 ug/l	345.23	90.00	
47 Ti	0.01 ug/l	249.07	0.78	
51 V	1.42 ug/l	3.15	0.21	Fail
52 Cr	0.03 ug/l	9.62	0.12	
55 Mn	0.01 ug/l	149.75	0.18	
56 Fe	0.83 ug/l	6.84	40.80	
59 Co	-0.29 ug/l	0.85	0.09	
60 Ni	-0.01 ug/l	222.72	0.48	
63 Cu	-0.38 ug/l	4.80	0.39	
65 Cu	-0.41 ug/l	3.73	0.39	
66 Zn	0.00 ug/l	2628.40	6.90	
75 As	0.07 ug/l	32.28	0.27	
78 Se	0.02 ug/l	97.30	0.30	
78 Se	0.10 ug/l	82.67	0.30	
88 Sr	0.00 ug/l	540.84	0.03	
88 Sr	0.00 ug/l	24.02	0.03	
95 Mo	0.03 ug/l	20.10	0.21	
106 (Cd)	----- ug/l	-----	#VALUE!	
107 Ag	0.00 ug/l	72.34	0.09	
108 (Cd)	----- ug/l	-----	#VALUE!	
111 Cd	0.00 ug/l	426.65	0.06	
118 Sn	0.05 ug/l	13.48	0.30	
121 Sb	0.29 ug/l	11.14	0.03	Fail
137 Ba	0.02 ug/l	76.66	0.12	
205 Tl	0.01 ug/l	1.73	0.03	
206 (Pb)	----- ug/l	-----	#VALUE!	
207 (Pb)	----- ug/l	-----	#VALUE!	
208 Pb	-0.25 ug/l	1.69	0.33	

ISTD Elements	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3085838.80	0.28	2775704.50	111.2	70 - 120	
45 Sc	543008.13	0.74	500780.41	108.4	70 - 120	
45 Sc	96730.10	0.69	95494.08	101.3	70 - 120	
45 Sc	1456388.00	1.14	1460980.80	99.7	70 - 120	
72 Ge	104225.84	0.21	96219.04	108.3	70 - 120	
72 Ge	45874.70	1.25	43611.78	105.2	70 - 120	
72 Ge	211968.23	0.39	213204.63	99.4	70 - 120	
115 In	1335750.50	0.67	1381264.00	96.7	70 - 120	
159 Tb	1825624.90	0.43	1843940.90	99.0	70 - 120	
165 Ho	1821355.50	0.60	1844184.90	98.8	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

2 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\060_CCV.D\060_CCV.D#
 Date Acquired: Nov 11 2011 06:04 pm
 Operator: NBS
 Sample Name: CCV 111111
 Misc Info:
 Vial Number: 1105
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	Expected	QC Range(%)	Flag
7 (Li)	----- ug/l	-----	50.00	90 - 110	
9 Be	43.59 ug/l	0.52	50.00	90 - 110	Fail
11 B	39.89 ug/l	0.37	50.00	90 - 110	Fail
23 Na	1206.00 ug/l	0.25	1250.00	90 - 110	
24 Mg	2492.00 ug/l	1.14	2500.00	90 - 110	
27 Al	988.60 ug/l	0.65	1000.00	90 - 110	
39 K	883.40 ug/l	0.62	1000.00	90 - 110	Fail
44 Ca	2445.00 ug/l	1.17	2500.00	90 - 110	
47 Ti	49.55 ug/l	0.70	50.00	90 - 110	
51 V	52.18 ug/l	0.86	50.00	90 - 110	
52 Cr	49.10 ug/l	0.91	50.00	90 - 110	
55 Mn	53.67 ug/l	0.37	50.00	90 - 110	
56 Fe	999.40 ug/l	0.75	1000.00	90 - 110	
59 Co	49.93 ug/l	0.37	50.00	90 - 110	
60 Ni	50.18 ug/l	0.47	50.00	90 - 110	
63 Cu	48.01 ug/l	1.08	50.00	90 - 110	
65 Cu	47.95 ug/l	1.23	50.00	90 - 110	
66 Zn	48.48 ug/l	0.85	50.00	90 - 110	
75 As	48.40 ug/l	0.84	50.00	90 - 110	
78 Se	44.75 ug/l	1.93	50.00	90 - 110	Fail
78 Se	46.76 ug/l	2.40	50.00	90 - 110	
88 Sr	49.65 ug/l	0.75	50.00	90 - 110	
88 Sr	43.83 ug/l	0.41	50.00	90 - 110	Fail
95 Mo	45.84 ug/l	0.72	50.00	90 - 110	
106 (Cd)	----- ug/l	-----	50.00	90 - 110	
107 Ag	24.47 ug/l	1.71	25.00	90 - 110	
108 (Cd)	----- ug/l	-----	50.00	90 - 110	
111 Cd	48.94 ug/l	2.42	50.00	90 - 110	
118 Sn	49.84 ug/l	1.46	50.00	90 - 110	
121 Sb	50.04 ug/l	0.62	50.00	90 - 110	
137 Ba	50.55 ug/l	2.58	50.00	90 - 110	
205 Tl	46.49 ug/l	1.08	50.00	90 - 110	
206 (Pb)	----- ug/l	-----	50.00	90 - 110	
207 (Pb)	----- ug/l	-----	50.00	90 - 110	
208 Pb	48.04 ug/l	0.60	50.00	90 - 110	

ISTD Elements

Element	CPS	Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3120885.30	0.60	2775704.50	112.4	70 - 120		
45 Sc	528291.50	1.60	500780.41	105.5	70 - 120		
45 Sc	94943.62	0.72	95494.08	99.4	70 - 120		
45 Sc	1497531.60	0.60	1460980.80	102.5	70 - 120		
72 Ge	107482.91	1.52	96219.04	111.7	70 - 120		
72 Ge	46381.07	0.48	43611.78	106.3	70 - 120		
72 Ge	233866.19	0.20	213204.63	109.7	70 - 120		
115 In	1403864.60	1.34	1381264.00	101.6	70 - 120		
159 Tb	1927869.00	0.42	1843940.90	104.6	70 - 120		
165 Ho	1902582.90	0.32	1844184.90	103.2	70 - 120		

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

S :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\062_CCB.D\062_CCB.D#
 Date Acquired: Nov 11 2011 06:16 pm
 Operator: NBS
 Sample Name: CCB 111111
 Misc Info:
 Vial Number: 1102
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	----- ug/l	-----	#VALUE!	
9 Be	0.00 ug/l	45.82	0.12	
11 B	-0.52 ug/l	3.32	15.00	
23 Na	-14.13 ug/l	1.97	77.10	
24 Mg	0.40 ug/l	18.80	7.50	
27 Al	0.37 ug/l	36.41	3.96	
39 K	-25.01 ug/l	22.10	19.20	
44 Ca	-5.06 ug/l	39.41	90.00	
47 Ti	-0.01 ug/l	153.32	0.78	
51 V	3.23 ug/l	1.14	0.21	Fail
52 Cr	0.11 ug/l	18.29	0.12	
55 Mn	0.56 ug/l	2.13	0.18	Fail
56 Fe	0.91 ug/l	1.90	40.80	
59 Co	-0.29 ug/l	0.95	0.09	
60 Ni	-0.01 ug/l	26.61	0.48	
63 Cu	-0.57 ug/l	1.33	0.39	
65 Cu	-0.57 ug/l	1.17	0.39	
66 Zn	0.10 ug/l	36.98	6.90	
75 As	0.63 ug/l	2.54	0.27	Fail
78 Se	0.03 ug/l	36.72	0.30	
78 Se	0.20 ug/l	17.06	0.30	
88 Sr	0.01 ug/l	140.22	0.03	
88 Sr	0.00 ug/l	12.28	0.03	
95 Mo	0.01 ug/l	62.46	0.21	
106 (Cd)	----- ug/l	-----	#VALUE!	
107 Ag	0.00 ug/l	55.01	0.09	
108 (Cd)	----- ug/l	-----	#VALUE!	
111 Cd	0.01 ug/l	225.87	0.06	
118 Sn	0.05 ug/l	34.43	0.30	
121 Sb	0.19 ug/l	1.47	0.03	Fail
137 Ba	0.00 ug/l	114.50	0.12	
205 Tl	0.01 ug/l	8.77	0.03	
206 (Pb)	----- ug/l	-----	#VALUE!	
207 (Pb)	----- ug/l	-----	#VALUE!	
208 Pb	-0.25 ug/l	1.47	0.33	

ISTD Elements

Element	CPS	Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	3025901.00	0.96	2775704.50	109.0	70 - 120		
45 Sc	540897.69	0.43	500780.41	108.0	70 - 120		
45 Sc	95060.94	0.12	95494.08	99.5	70 - 120		
45 Sc	1475771.40	0.55	1460980.80	101.0	70 - 120		
72 Ge	108235.30	0.84	96219.04	112.5	70 - 120		
72 Ge	46007.31	1.05	43611.78	105.5	70 - 120		
72 Ge	232509.75	0.78	213204.63	109.1	70 - 120		
115 In	1409864.80	1.11	1381264.00	102.1	70 - 120		
159 Tb	1904300.90	0.32	1843940.90	103.3	70 - 120		
165 Ho	1879356.80	0.14	1844184.90	101.9	70 - 120		

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

4 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Pass

CCV QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\069_CCV.D\069_CCV.D#
 Date Acquired: Nov 11 2011 06:59 pm
 Operator: NBS
 Sample Name: CCV 111111
 Misc Info:
 Vial Number: 1105
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCV
 Total Dil Factor: 1.00

QC Elements	Element	Conc.	RSD(%)	Expected QC Range(%)	Flag
	7 (Li)	----- ug/l	-----	50.00 90 - 110	
	9 Be	41.96 ug/l	0.44	50.00 90 - 110	Fail
	11 B	37.94 ug/l	0.36	50.00 90 - 110	Fail
	23 Na	1187.00 ug/l	0.86	1250.00 90 - 110	
	24 Mg	2481.00 ug/l	0.35	2500.00 90 - 110	
	27 Al	988.40 ug/l	0.29	1000.00 90 - 110	
	39 K	891.50 ug/l	0.86	1000.00 90 - 110	Fail
	44 Ca	2444.00 ug/l	0.83	2500.00 90 - 110	
	47 Ti	49.28 ug/l	0.95	50.00 90 - 110	
	51 V	50.92 ug/l	0.36	50.00 90 - 110	
	52 Cr	48.86 ug/l	0.40	50.00 90 - 110	
	55 Mn	53.78 ug/l	0.05	50.00 90 - 110	
	56 Fe	1002.00 ug/l	0.30	1000.00 90 - 110	
	59 Co	49.75 ug/l	0.58	50.00 90 - 110	
	60 Ni	49.90 ug/l	1.02	50.00 90 - 110	
	63 Cu	48.36 ug/l	0.88	50.00 90 - 110	
	65 Cu	48.31 ug/l	1.10	50.00 90 - 110	
	66 Zn	48.91 ug/l	1.42	50.00 90 - 110	
	75 As	48.51 ug/l	1.21	50.00 90 - 110	
	78 Se	45.98 ug/l	4.00	50.00 90 - 110	
	78 Se	47.69 ug/l	2.39	50.00 90 - 110	
	88 Sr	50.02 ug/l	2.42	50.00 90 - 110	
	88 Sr	44.60 ug/l	0.54	50.00 90 - 110	Fail
	95 Mo	47.15 ug/l	0.87	50.00 90 - 110	
	106 (Cd)	----- ug/l	-----	50.00 90 - 110	
	107 Ag	24.76 ug/l	0.89	25.00 90 - 110	
	108 (Cd)	----- ug/l	-----	50.00 90 - 110	
	111 Cd	48.81 ug/l	0.53	50.00 90 - 110	
	118 Sn	49.90 ug/l	0.17	50.00 90 - 110	
	121 Sb	49.52 ug/l	0.67	50.00 90 - 110	
	137 Ba	50.56 ug/l	0.34	50.00 90 - 110	
	205 Tl	46.29 ug/l	1.03	50.00 90 - 110	
	206 (Pb)	----- ug/l	-----	50.00 90 - 110	
	207 (Pb)	----- ug/l	-----	50.00 90 - 110	
	208 Pb	47.78 ug/l	0.63	50.00 90 - 110	

ISTD Elements	Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
	6 Li	2985567.00	0.53	2775704.50	107.6	70 - 120	
	45 Sc	487961.94	6.11	500780.41	97.4	70 - 120	
	45 Sc	95404.65	0.66	95494.08	99.9	70 - 120	
	45 Sc	1525855.80	1.18	1460980.80	104.4	70 - 120	
	72 Ge	103631.21	4.70	96219.04	107.7	70 - 120	
	72 Ge	46230.60	0.75	43611.78	106.0	70 - 120	
	72 Ge	239856.61	0.42	213204.63	112.5	70 - 120	
	115 In	1477339.60	0.26	1381264.00	107.0	70 - 120	
	159 Tb	1984393.10	0.51	1843940.90	107.6	70 - 120	
	165 Ho	1953717.00	1.26	1844184.90	105.9	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

4 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
 Analytes: Fail
 ISTD: Pass

CCB QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\071_CCB.D\071_CCB.D#
 Date Acquired: Nov 11 2011 07:11 pm
 Operator: NBS
 Sample Name: CCB 111111
 Misc Info:
 Vial Number: 1102
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: CCB
 Total Dil Factor: 1.00

QC Elements

Element	Conc.	RSD(%)	High Limit	Flag
7 (Li)	----- ug/l	-----	#VALUE!	
9 Be	0.00 ug/l	354.93	0.12	
11 B	-0.50 ug/l	1.33	15.00	
23 Na	-18.60 ug/l	3.31	77.10	
24 Mg	0.77 ug/l	11.28	7.50	
27 Al	0.41 ug/l	61.51	3.96	
39 K	-15.97 ug/l	35.55	19.20	
44 Ca	-5.51 ug/l	24.66	90.00	
47 Ti	0.00 ug/l	618.86	0.78	
51 V	2.07 ug/l	1.59	0.21	Fail
52 Cr	0.05 ug/l	16.40	0.12	
55 Mn	0.54 ug/l	4.09	0.18	Fail
56 Fe	1.11 ug/l	3.58	40.80	
59 Co	-0.29 ug/l	0.81	0.09	
60 Ni	-0.02 ug/l	55.04	0.48	
63 Cu	-0.58 ug/l	1.68	0.39	
65 Cu	-0.59 ug/l	2.73	0.39	
66 Zn	0.01 ug/l	110.45	6.90	
75 As	0.23 ug/l	18.98	0.27	
78 Se	0.03 ug/l	26.03	0.30	
78 Se	0.12 ug/l	27.96	0.30	
88 Sr	0.01 ug/l	37.54	0.03	
88 Sr	0.01 ug/l	19.07	0.03	
95 Mo	0.01 ug/l	60.81	0.21	
106 (Cd)	----- ug/l	-----	#VALUE!	
107 Ag	0.01 ug/l	23.72	0.09	
108 (Cd)	----- ug/l	-----	#VALUE!	
111 Cd	0.01 ug/l	86.89	0.06	
118 Sn	0.06 ug/l	11.23	0.30	
121 Sb	0.20 ug/l	2.41	0.03	Fail
137 Ba	0.01 ug/l	270.48	0.12	
205 Tl	0.01 ug/l	7.49	0.03	
206 (Pb)	----- ug/l	-----	#VALUE!	
207 (Pb)	----- ug/l	-----	#VALUE!	
208 Pb	-0.26 ug/l	0.79	0.33	

ISTD Elements

Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6 Li	2980384.00	0.41	2775704.50	107.4	70 - 120	
45 Sc	499034.78	5.31	500780.41	99.7	70 - 120	
45 Sc	96901.73	0.42	95494.08	101.5	70 - 120	
45 Sc	1527813.50	0.50	1460980.80	104.6	70 - 120	
72 Ge	103880.64	4.84	96219.04	108.0	70 - 120	
72 Ge	46726.97	0.51	43611.78	107.1	70 - 120	
72 Ge	244428.58	0.30	213204.63	114.6	70 - 120	
115 In	1468846.40	0.59	1381264.00	106.3	70 - 120	
159 Tb	1966759.90	0.53	1843940.90	106.7	70 - 120	
165 Ho	1940966.80	0.35	1844184.90	105.2	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

3 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:

Analytes: Fail
 ISTD: Pass

METALS
Raw Data

APPL, INC.

METALS BLANK

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
6020	LEAD (PB) (DISSOL	0.19 J	0.5	0.22	0.11	ug/L	11/10/11	11/11/11	#602D-111110A-AY49334

J = Estimated value.

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\024SMPL.D\024SMPL.D#
 Date Acquired: Nov 11 2011 02:16 pm
 Operator: NBS
 Sample Name: 111110A-3015-BLK
 Misc Info: 111110A-3015
 Vial Number: 3101
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: Sample
 Prep Dil Factor: 1.11
 Total Dil Factor: 1.11

QC Elements	Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
	7 (Li)	----- ug/l	#VALUE!	-----	0	
	9 Be	-0.01 ug/l	-0.01	2.73	1000	
	11 B	0.02 ug/l	0.02	15.56	1000	
	23 Na	35.01 ug/l	38.90	12.71	25000	
	24 Mg	5.25 ug/l	5.83	2.15	50000	
	27 Al	6.63 ug/l	7.37	3.21	20000	
	39 K	-19.19 ug/l	-21.32	24.75	20000	
	44 Ca	187.10 ug/l	207.87	2.16	50000	
	47 Ti	0.09 ug/l	0.10	43.80	1000	
	51 V	-0.78 ug/l	-0.86	1.87	1000	
	52 Cr	-0.04 ug/l	-0.04	28.95	1000	
	55 Mn	0.23 ug/l	0.26	6.88	1000	
	56 Fe	2.70 ug/l	3.00	5.14	20000	
	59 Co	-0.27 ug/l	-0.30	0.86	1000	
	60 Ni	0.12 ug/l	0.14	23.87	1000	
	63 Cu	-0.44 ug/l	-0.49	2.50	1000	
	65 Cu	-0.44 ug/l	-0.49	2.58	1000	
	66 Zn	7.48 ug/l	8.31	3.75	1000	
	75 As	-0.53 ug/l	-0.59	2.55	1000	
	78 Se	-0.01 ug/l	-0.01	26.71	1000	
	78 Se	-0.01 ug/l	-0.02	520.99	1000	
	88 Sr	0.14 ug/l	0.16	12.74	1000	
	88 Sr	0.14 ug/l	0.16	3.88	1000	
	95 Mo	0.02 ug/l	0.02	6.80	1000	
	106 (Cd)	----- ug/l	#VALUE!	-----	#####	
	107 Ag	0.00 ug/l	0.00	212.49	500	
	108 (Cd)	----- ug/l	#VALUE!	-----	#####	
	111 Cd	0.02 ug/l	0.02	26.66	1000	
	118 Sn	0.12 ug/l	0.13	6.01	1000	
	121 Sb	0.07 ug/l	0.08	7.73	1000	
	137 Ba	0.04 ug/l	0.04	9.41	1000	
	205 Tl	0.01 ug/l	0.01	22.33	1000	
	206 (Pb)	----- ug/l	#VALUE!	-----	#####	
	207 (Pb)	----- ug/l	#VALUE!	-----	#####	
	208 Pb	0.17 ug/l	0.19	1.81	1000	

ISTD Elements	Element	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
	6 Li	3205542.30	0.83	2775704.50	115.5	70 - 120	
	45 Sc	579022.81	0.89	500780.41	115.6	70 - 120	
	45 Sc	106222.45	0.45	95494.08	111.2	70 - 120	
	45 Sc	1635333.40	0.66	1460980.80	111.9	70 - 120	
	72 Ge	108091.34	0.67	96219.04	112.3	70 - 120	
	72 Ge	49642.59	1.23	43611.78	113.8	70 - 120	
	72 Ge	228973.69	0.34	213204.63	107.4	70 - 120	
	115 In	1505106.90	0.63	1381264.00	109.0	70 - 120	
	159 Tb	2069441.80	1.02	1843940.90	112.2	70 - 120	
	165 Ho	2056674.30	0.60	1844184.90	111.5	70 - 120	

ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
 Analytes: Pass
 ISTD: Pass

Laboratory Control Spike Recovery

METALS

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Method	Compound Name	Spike Level ug/L	SPK Result ug/L	SPK % Recovery	Recovery Limits	Extract Date	Analysis Date	QC Group
6020	LEAD (PB) (DISSOLVED)	50.0	50.0	100	80-120	11/10/2011	1/11/2011	#602D-111110A-AY49334

Comments: _____

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\025SMPL.D\025SMPL.D#
 Date Acquired: Nov 11 2011 02:22 pm
 Operator: NBS
 Sample Name: 111110A-3015-LCS
 Misc Info: 111110A-3015
 Vial Number: 3102
 Current Method: C:\ICPCHEM\1\METHODS\62A1111A.M
 Calibration File: C:\ICPCHEM\1\CALIB\62A1111A.C
 Last Cal Update: Nov 11 2011 12:36 pm
 Sample Type: Sample
 Prep Dil Factor: 1.11
 Total Dil Factor: 1.11

QC Elements	Element	Conc.	Corr. Conc.	RSD(%)	High Limit	Flag
	7 (Li)	----- ug/l	#VALUE!	-----	0	
	9 Be	7.09 ug/l	7.88	0.95	1000	
	11 B	34.46 ug/l	38.29	0.83	1000	
	23 Na	4313.00 ug/l	4791.74	0.33	25000	
	24 Mg	4287.00 ug/l	4762.86	0.50	50000	
	27 Al	378.80 ug/l	420.85	1.07	20000	
	39 K	819.80 ug/l	910.80	1.14	20000	
	44 Ca	4772.00 ug/l	5301.69	0.81	50000	
	47 Ti	43.16 ug/l	47.95	0.73	1000	
	51 V	44.89 ug/l	49.87	0.68	1000	
	52 Cr	46.85 ug/l	52.05	0.52	1000	
	55 Mn	48.25 ug/l	53.61	0.34	1000	
	56 Fe	188.60 ug/l	209.53	0.62	20000	
	59 Co	45.14 ug/l	50.15	0.81	1000	
	60 Ni	45.24 ug/l	50.26	0.75	1000	
	63 Cu	42.57 ug/l	47.30	0.51	1000	
	65 Cu	42.70 ug/l	47.44	0.10	1000	
	66 Zn	94.53 ug/l	105.02	0.68	1000	
	75 As	39.81 ug/l	44.23	0.66	1000	
	78 Se	36.57 ug/l	40.63	2.90	1000	
	78 Se	37.79 ug/l	41.98	1.41	1000	
	88 Sr	47.19 ug/l	52.43	0.39	1000	
	88 Sr	45.26 ug/l	50.28	0.18	1000	
	95 Mo	45.43 ug/l	50.47	0.63	1000	
	106 (Cd)	----- ug/l	#VALUE!	-----	#####	
	107 Ag	16.57 ug/l	18.41	1.13	500	
	108 (Cd)	----- ug/l	#VALUE!	-----	#####	
	111 Cd	8.34 ug/l	9.26	2.50	1000	
	118 Sn	48.01 ug/l	53.34	0.41	1000	
	121 Sb	42.84 ug/l	47.60	0.50	1000	
	137 Ba	44.60 ug/l	49.55	0.91	1000	
	205 Tl	43.45 ug/l	48.27	0.08	1000	
	206 (Pb)	----- ug/l	#VALUE!	-----	#####	
	207 (Pb)	----- ug/l	#VALUE!	-----	#####	
	208 Pb	45.08 ug/l	50.08	0.48	1000	

ISTD Elements	Element	CPS	Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
	6 Li	3106113.00	0.94	2775704.50	111.9	70 - 120		
	45 Sc	583837.94	0.76	500780.41	116.6	70 - 120		
	45 Sc	104815.63	0.97	95494.08	109.8	70 - 120		
	45 Sc	1623628.90	0.72	1460980.80	111.1	70 - 120		
	72 Ge	109519.99	0.75	96219.04	113.8	70 - 120		
	72 Ge	48705.67	0.97	43611.78	111.7	70 - 120		
	72 Ge	226177.02	0.48	213204.63	106.1	70 - 120		
	115 In	1499201.30	0.50	1381264.00	108.5	70 - 120		
	159 Tb	2052386.10	0.41	1843940.90	111.3	70 - 120		
	165 Ho	2061841.80	0.62	1844184.90	111.8	70 - 120		

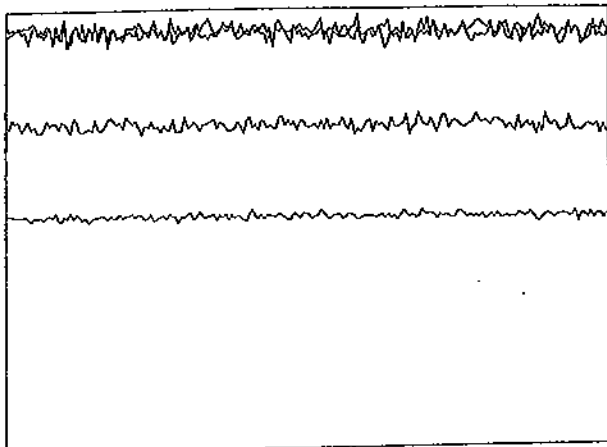
ISTD Ref File : C:\ICPCHEM\1\DATA\11K11100.B\004CALB.D\004CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
 0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Data Results:
 Analytes: Pass
 ISTD: Pass

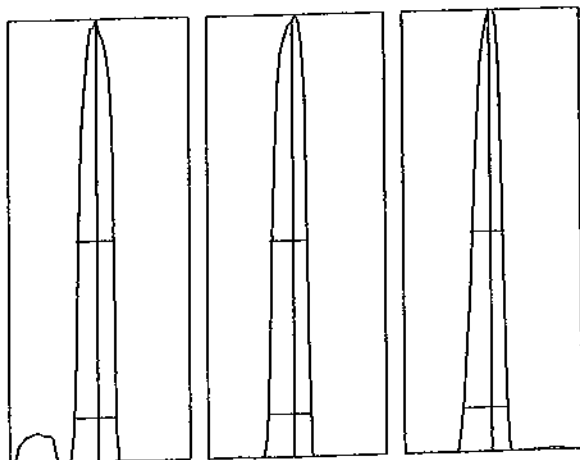
Tune Report

Tune File : nogas.u
 Comment : 111111



Integration Time: 0.1000 sec
 Sampling Period: 0.6200 sec
 n: 200
 Oxide: 156/140 1.410%
 Doubly Charged: 70/140 1.051%

m/z	Range	Count	Mean	RSD%	Background
7	50,000	26283.0	26440.3	1.09	0.40
89	20,000	19274.0	18861.9	1.39	2.20
205	20,000	14914.0	14722.1	1.50	5.80
156/140	2	1.520%	1.398%	6.48	
70/140	2	1.065%	1.038%	8.17	
140	20,000	18882.0	19064.3	1.33	4.10



m/z:	7	89	205
Height:	26,611	18,699	14,936
Axis:	7.00	89.00	205.00
W-50%:	0.65	0.65	0.60
W-10%:	0.700	0.7500	0.800

Integration Time: 0.1000 sec
 Acquisition Time: 22.7600 sec

Y axis : Linear

Tune Report

Tune File : nogas.u
Comment : 111111

Tuning Parameters

===Plasma Condition===

RF Power : 1600 W
RF Matching : 1.66 V
Smpl Depth : 9.6 mm
Torch-H : -0.1 mm
Torch-V : 0.1 mm
Carrier Gas : 1.02 L/min
Makeup Gas : 0.1 L/min
Optional Gas : --- %
Nebulizer Pump : 0.1 rps
Sample Pump : --- rps
S/C Temp : 2 degC

===Ion Lenses===

Extract 1 : 0 V
Extract 2 : -130 V
Omega Bias-ce : -22 V
Omega Lens-ce : -1.2 V
Cell Entrance : -30 V
QP Focus : 5 V
Cell Exit : -30 V

===Q-Pole Parameters===

AMU Gain : 128
AMU Offset : 127
Axis Gain : 1
Axis Offset : -0.02
QP Bias : -3 V

===Detector Parameters===

Discriminator : 8 mV
Analog HV : 1660 V
Pulse HV : 1460 V

===Octopole Parameters===

OctP RF : 180 V
OctP Bias : -6 V

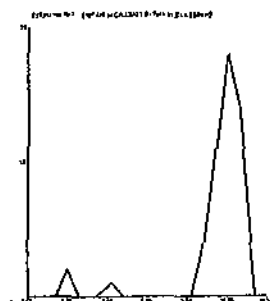
===Reaction Cell===

Reaction Mode : OFF
H2 Gas : 0 mL/min He Gas : 0 mL/min Optional Gas : --- %

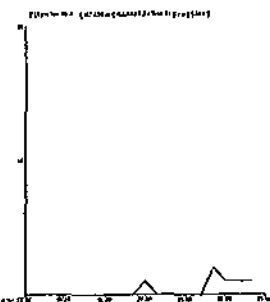
200.8 QC Tune Report

Data File: C:\ICPCHEM\1\DATA\11K11100.B\001TUNE.D
 Date Acquired: Nov 11 2011 11:48 am
 Acq. Method: TN200_8.M
 Operator: NBS
 Sample Name: 100ppb Tune sol
 Misc Info:
 Vial Number: 1303
 Current Method: C:\ICPCHEM\1\METHODS\TN200_8.M

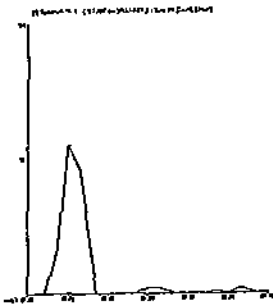
Element	CPS Mean	Rep1	Rep2	Rep3	Rep4	Rep5	%RSD	Required	Flag
9 Be	65891175	64840372	65630536	65890148	66486284	66608536	1.01	5.00	
24 Mg	120432836	#####	#####	#####	#####	#####	1.16	5.00	
59 Co	111175066	#####	#####	#####	#####	#####	0.73	5.00	
115 In	122240964	#####	#####	#####	#####	#####	0.81	5.00	
208 Pb	63959189	64419004	64182972	63372424	64206080	63615464	1.13	5.00	



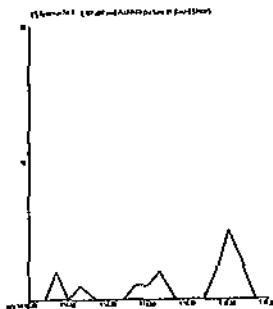
9 Be
 Mass Calib.
 Actual: 9.00
 Required: 8.90 - 9.10
 Flag:
 Peak Width
 Actual: 0.60
 Required: 0.90
 Flag:



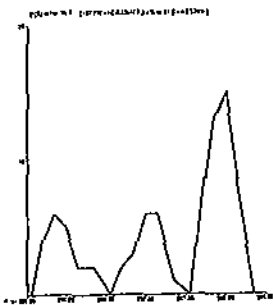
24 Mg
 Mass Calib.
 Actual: 23.95
 Required: 23.90 - 24.10
 Flag:
 Peak Width
 Actual: 0.65
 Required: 0.80
 Flag:



59 Co
Mass Calib.
Actual: 59.00
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



115 In
Mass Calib.
Actual: 115.05
Required: 114.90 - 115.10
Flag:
Peak Width
Actual: 0.65
Required: 0.90
Flag:



208 Pb
Mass Calib.
Actual: 208.00
Required: 207.90 - 208.10
Flag:
Peak Width
Actual: 0.65
Required: 0.80
Flag:

Tune Result: Pass

Metals Standards Log Book # 34 Page #001

NBS 11/11/11

NBS 11/11/11
6020/6020A
(A)

ICP-MS STANDARDS 6020/6020A/3015/3051A			
Today's Date: 11/11/2011			
Expires: 11/18/2011			
Prep Date 1% HNO3/1.0% HCL			
20 mL HNO3 / 2000 mL DI Water			
Lot # K19023			
20 mL HCL / 2000 mL DI Water			
Lot # 4110110			
Expires: 11/18/2011			
Standard 4			
Amount	STD	Manufacturer	Lot #
50 uL	CCV-A	Env. Express	1036407-28139
50 uL	CCV-B	Env. Express	1036410-28140
50 uL	CCV-C	Env. Express	1100309-28141
Prepared in 100 mL of 1% HNO3/1.0% HCL 11/11/2011			
Standard 3 11/18/2011			
Amount	STD	Manufacturer	Lot #
25 uL	CCV-A	Env. Express	1036407-28139
25 uL	CCV-B	Env. Express	1036410-28140
25 uL	CCV-C	Env. Express	1100309-28141
Prepared in 100 mL of 1% HNO3/1.0% HCL 11/11/2011			
Standard 2 11/18/2011			
Amount	STD	Manufacturer	Lot #
500 uL	Standard 4		11/11/2011
Prepared in 50 mL of 1% HNO3/1.0% HCL 11/11/2011			
Standard 1 11/18/2011			
Amount	STD	Manufacturer	Lot #
50 uL	Standard 4		11/11/2011
Prepared in 50 mL of 1% HNO3/1.0% HCL 11/11/2011			
ICP-MS ICV 11/18/2011			
Amount	STD	Manufacturer	Lot #
50 uL	QCS ICV A	CPI	11C174-28548
50 uL	QCS ICV B	CPI	11C174-28549
Prepared in 50 mL of 1% HNO3/1.0% HCL 11/11/2011			
ICSA Prep: 11/18/2011			
1 mL	ICSA	CPI	11C068-28529
Prepared in 5 mL of 1% HNO3/1.0% HCL 11/11/2011			
ICSA B Prep: 11/18/2011			
1 mL	ICSA	CPI	11C068-28529
0.025 mL	INT	O2SI	1023808-28210
Prepared in 5 mL of 1% HNO3/1.0% HCL 11/11/2011			
ICP-LOR 11/18/2011			
Amount	STD	Manufacturer	Lot #
50 uL	CCV-A	Env. Express	1036407-28139
50 uL	CCV-B	Env. Express	1036410-28140
50 uL	CCV-C	Env. Express	1100309-28141
Prepared in 10 mL of 1% HNO3/1.0% HCL 11/11/2011			

SAM 11/11/11
200.7
Exp (A)

2% HNO3 / 2% HCl BLK					200.7 ICV				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE	AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
40 mL	HCL	BDH	4110110	10/14/2011	0.5ML	QCS ICV A	CPI	11C174-28548	9/17/2012
40 mL	HNO3	JT BAKER	K19023	10/14/2011	0.5ML	QCS ICV B	CPI	11C174-28549	9/17/2012
Prepared in 2000 ml DI Water					Prepared in 50ml 2% HNO3/2% HCl				
STD 1 / LDL 200.7					200.7 ICSA				
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE	0.5mL	Al	CPI	10E012-27685	4/20/2012
0.250 mL	200.7 LDL	O2SI	1028857-29687	11/11/2012	0.5mL	Ca	CPI	11A006-28528	9/15/2012
Prepared in 50 ml 2% HNO3/2% HCl					0.5mL	Mg	CPI	10H213-2786	4/20/2012
STD 3 / HDL 200.7					0.5mL	Fe	O2SI	1022245-27899	4/22/2012
0.5 mL	CCV-A	ABSOLUTE	091409-25206	9/14/2012	200.7 ICASAB				
0.5 mL	CCV-B	ABSOLUTE	091109-25208	9/14/2012	0.5mL	Al	CPI	10E012-27685	4/20/2012
0.5 mL	CCV-C	ABSOLUTE	091009-25207	9/10/2012	0.5mL	Ca	CPI	11A006-28528	9/15/2012
STD 2 / CCV1 200.7					0.5mL	Mg	CPI	10H213-2786	4/20/2012
AMOUNT	STD	PREP DATE	EXP DATE		0.5mL <th>Fe <th>O2SI <th>1022245-27899 <th>4/22/2012</th> </th></th></th>	Fe <th>O2SI <th>1022245-27899 <th>4/22/2012</th> </th></th>	O2SI <th>1022245-27899 <th>4/22/2012</th> </th>	1022245-27899 <th>4/22/2012</th>	4/22/2012
25mL	STD 3	11/4/2011	11/11/2011		0.25mL	INT SPECIAL MIX	O2SI	160495-01-01	3/1/2012
25mL	2% HNO3/2% HCl	11/4/2011	11/11/2011		Prepared in 50 ml 2% HNO3/2% HCl				
CCV2 200.7									
15mL	STD 3	11/4/2011	11/11/2011						
25mL	2% HNO3/2% HCl	11/4/2011	11/11/2011						

SAM 11/11/11
6010B/6010C
(A)

1% HNO3 / 5% HCl BLK					6010B/6010C ICVA				
AMOUNT	REAGENT	MANUFACTURER	LOT	OPEN DATE	AMOUNT	STD	MANUFACTURER	LOT	EXP DATE
100 mL	HCL	BDH	4110110	10/14/2011	1mL	Al	CPI	10E012-27685	4/20/2012
20 mL	HNO3	JT BAKER	K19023	10/14/2011	1mL	Ca	CPI	11A006-28528	9/15/2012
Prepared in 2000 ml DI Water					1mL	Mg	CPI	10H213-2786	4/20/2012
STD 1 / LDL 6010B/6010C					0.5mL	Fe	O2SI	1022245-27899	4/22/2012
AMOUNT	STD	MANUFACTURER	LOT	EXP DATE	Prepared in 50 ml 1% HNO3/5% HCl				
0.5 mL	6010 LDL	ABSOLUTE	091409-25203	9/14/2012	6010B/6010C ICASAB				
Prepared in 50 ml 1% HNO3/5% HCl					1mL	Al	CPI	10E012-27685	4/20/2012
1mL	CCV-A	ABSOLUTE	091409-25208	9/14/2012	1mL	Ca	CPI	11A006-28528	9/15/2012
1mL	CCV-B	ABSOLUTE	091109-25208	9/14/2012	1mL	Mg	CPI	10H213-2786	4/20/2012
1mL	CCV-C	ABSOLUTE	091009-25207	9/10/2012	1mL	Fe	O2SI	1022245-27899	4/22/2012
Prepared in 100 ml 1% HNO3/5% HCl					0.5mL	INT SPECIAL MIX	O2SI	160495-01-01	3/1/2012
STD 2 / CCV1 6010B/6010C					Prepared in 50 ml 1% HNO3/5% HCl				
AMOUNT	STD	PREP DATE	EXP DATE		6010B/6010C ICV				
25mL	STD 3	11/11/2011	11/18/2011		0.5ML	QCS ICV A	CPI	11C174-28548	9/17/2012
25mL	1% HNO3/5% HCl	11/11/2011	11/18/2011		0.5ML	QCS ICV B	CPI	11C174-28549	9/17/2012
CCV2 6010B/6010C					Prepared in 50ml 1% HNO3/5% HCl				
AMOUNT	STD	PREP DATE	EXP DATE						
15mL	STD 3	11/11/2011	11/18/2011						
25mL	1% HNO3/5% HCl	11/11/2011	11/18/2011						

SAM 11/11/11

Metals Digestion Worksheet

Method Name 3015 Digestion

Prep Method M3015

Set 111110A

Units mL

Spikes	
Spiked ID 1	LCSW LOT# 1028408-29435
Spiked ID 2	LCSW LOT# 1028416-29433
Spiked ID 3	
Spiked ID 4	
Spiked By	NM Date: 11/10/11 10:40:00 AM
Witnessed By	KWS Date: 11/10/11 10:40:00 AM

Starting Temp:	25 C
Ending Temp:	170 C
Temperature Type:	Microwave
Sufficient Vol for Matrix QC:	YES
End Date/Time	11/10/11 12:00

Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
1	111110A Bik			45mL	50mL	11/10/11 10:40	equip: Venus
2	111110A LCS	90uL	1+2	45mL	50mL	11/10/11 10:40	equip: Venus
3	AY48273 AY48273W01			45mL	50mL	11/10/11 10:40	equip: Venus
4	AY48273 DUP AY48273W01			45mL	50mL	11/10/11 10:40	equip: Venus
5	AY48273 MS AY48273W01	90uL	1+2	45mL	50mL	11/10/11 10:40	equip: Venus
6	AY48639 AY48639W05			45mL	50mL	11/10/11 10:40	equip: Venus
7	AY48640 AY48640W05			45mL	50mL	11/10/11 10:40	equip: Venus
8	AY48641 AY48641W05			45mL	50mL	11/10/11 10:40	equip: Venus
9	AY48642 AY48642W05			45mL	50mL	11/10/11 10:40	equip: Venus
10	AY48643 AY48643W05			45mL	50mL	11/10/11 10:40	equip: Venus
11	AY48644 AY48644W02			45mL	50mL	11/10/11 10:40	equip: Venus
12	AY49333 AY49333W13			45mL	50mL	11/10/11 10:40	equip: Venus
13	AY49334 AY49334W51			45mL	50mL	11/10/11 10:40	equip: Venus
14	AY49334 MS AY49334W52	90uL	1+2	45mL	50mL	11/10/11 10:40	equip: Venus
15	AY49334 MSD AY49334W52	90uL	1+2	45mL	50mL	11/10/11 10:40	equip: Venus
16	AY49336 AY49336W13			45mL	50mL	11/10/11 10:40	equip: Venus
17	AY49481 AY49481W13			45mL	50mL	11/10/11 10:40	equip: Venus
18	AY49482 AY49482W13			45mL	50mL	11/10/11 10:40	equip: Venus
19	AY49559 AY49559W31			45mL	50mL	11/10/11 10:40	equip: Venus
20	AY49559 MS AY49559W31	90uL	1+2	45mL	50mL	11/10/11 10:40	equip: Venus
21	AY49559 MSD AY49559W31	90uL	1+2	45mL	50mL	11/10/11 10:40	equip: Venus
22	AY49561 AY49561W08			45mL	50mL	11/10/11 10:40	equip: Venus
23	AY49562 AY49562W08			45mL	50mL	11/10/11 10:40	equip: Venus

Solvent and Lot#
HNO3 J.T.B k19023 0095

Sample COC Transfer	
Sample prep employee Initials	nm
Analyst's initials	NBS
Date	11-10-11
Time	13:00
Moved to	MSXALS

Reduction Initials	
Scanned By	nm
Sample Preparation	lo
Digestion	lo
Bring up to volume	nm
Modified	11/10/11 10:19:53 AM

Reviewed By: *ST*

Date: 11-10-11

Metals Digestion Worksheet

Method Name 3015 Digestion

Prep Method M3015

Set 111110A

Units mL

Spikes	
Spiked ID 1	LCSW LOT# 1028408-29435
Spiked ID 2	LCSW LOT# 1028416-29433
Spiked ID 3	
Spiked ID 4	
Spiked By	NM Date: 11/10/11 10:40:00 AM
Witnessed By	KWS Date: 11/10/11 10:40:00 AM

Starting Temp:	25 C
Ending Temp:	170 C
Temperature Type:	Microwave
Sufficient Vol for Matrix QC:	YES
End Date/Time	11/10/11 12:00

Sample	Sample Container	Spike Amount	Spike ID	Digested Amount	Final Volume	Start Date/Time	Comments
24 AY50005	AY50005W08			45mL	50mL	11/10/11 10:40	equip: Venus

Solvent and Lot#
HNO3 J.T.B k19023 0095

Sample COC Transfer
Sample prep employee Initials nm
Analyst's initials NBS
Date 11-10-11
Time 13:00
Moved to MGTACS

Technician's Initials
Scanned By nm
Sample Preparation lo
Digestion lo
Bring up to volume nm
Modified 11/10/11 10:19:53 AM

Reviewed By: SA

Date: 11-10-11

6020/200.8 Injection Log

Directory: K:\MCP-MS Optimus\raw data output csv\

RunID	Injected		Sample Name	Misc Info	FileName	Multiplier
1	11 Nov 2011	12:08	Calibration Blank		111111A	1.
2	11 Nov 2011	12:14	111111 Standard 1		111111A	1.
3	11 Nov 2011	12:20	111111 Standard 2		111111A	1.
4	11 Nov 2011	12:27	111111 Standard 3		111111A	1.
5	11 Nov 2011	12:33	111111 Standard 4		111111A	1.
6	11 Nov 2011	12:39	ICV 111111		111111A	1.
8	11 Nov 2011	12:57	ICB 111111		111111A	1.
9	11 Nov 2011	13:03	CCV 111111		111111A	1.
10	11 Nov 2011	13:09	CCB 111111		111111A	1.
11	11 Nov 2011	13:15	ICSA 111111		111111A	1.
12	11 Nov 2011	13:21	ICSAB 111111		111111A	1.
13	11 Nov 2011	13:33	CCV 111111		111111A	1.
14	11 Nov 2011	13:46	CCB 111111		111111A	1.
15	11 Nov 2011	14:16	111110A-3015-BLK		111111A	1.
16	11 Nov 2011	14:22	111110A-3015-LCS		111111A	1.
23	11 Nov 2011	15:05	CCV 111111		111111A	1.
24	11 Nov 2011	15:17	CCB 111111		111111A	1.
49	11 Nov 2011	18:04	CCV 111111		111111A	1.
50	11 Nov 2011	18:16	CCB 111111		111111A	1.
55	11 Nov 2011	18:46	AY50005W08		111111A	1.
57	11 Nov 2011	18:59	CCV 111111		111111A	1.
58	11 Nov 2011	19:11	CCB 111111		111111A	1.

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

**7979 GSRI Avenue
Baton Rouge, LA 70820**

Report Date 11/14/2011

GCAL Report 211110421



Deliver To Appl, Inc.
908 North Temperance Ave
Clovis, CA 93611
559-275-2175

Attn Cynthia Clark

Project Appl, Inc.

CASE NARRATIVE

Client: Environet, Inc. **Report:** 211110421

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

No anomalies were found for the analyzed sample(s).

Sample Test Summary Report: 211110421

Lab Sample ID	Cust. Sample ID	Matrix	Proc. Desc.
21111042101	ES057	W	EPH Water
21111042101	ES057	W	VPH Water
21111042101	ES057	W	EPH Water Prep

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

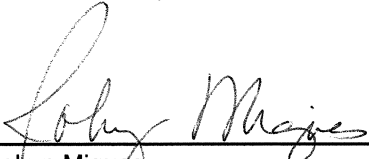
J	Indicates the result is between the MDL and RDL
U	Indicates the compound was analyzed for but not detected
B	Indicates the analyte was detected in the associated Method Blank

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.



Robyn Miguez
Technical Director

GCAL REPORT 211110421

THIS REPORT CONTAINS 268 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21111042101	ES057	Water	11/02/2011 11:05	11/04/2011 08:40

2E
WATER ORGANIC SURROGATE RECOVERY

Lab Name: GCAL Contract: _____

Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 211110421

GC Column (1): _____ ID: _____ (mm) GC Cloumn (2): _____ ID: _____ (mm)

Method: MASSVPH

EPA SAMPLE NO.	SMC1				SMC1				SMC2				SMC2				TOT OUT
	1-(1)	Lo	Hi	F	1-(2)	Lo	Hi	F	2-(1)	Lo	Hi	F	2-(2)	Lo	Hi	F	
1. ES057	116	70	130						114	70	130						0
2. MB1003187	100	70	130						96	70	130						0
3. LCS1003188	104	70	130						98	70	130						0

SMC 1 : 2,5-Dibromotoluene (PID)

SMC 2 : 2,5-Dibromotoluene (FID)

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

3E
WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL
 Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 211110421
 Contract: _____ Method: MASSVPH
 Prep Batch: _____ Analytical Batch: 468512

SAMPLE NO : 1003188

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
C5-C8 Aliphatic	ug/L	200	0	152	76		60 - 140
C9-C10 Aromatic	ug/L	50	0	54.4	109		60 - 140
C9-C12 Aliphatic	ug/L	100	0	105	105		60 - 140

RPD : 0 out of 0 outside limits

Spike Recovery: 0 out of 3 outside limits

FORM III ORG-1

4C
ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL Sample ID: MB1003187
 Lab Code: LA024 Case No.: _____ Contract: _____
 Lab Sample ID: 1003187 SAS No.: _____ SDG No.: 211110421
 Matrix: Water Sulfur Cleanup: (Y/N) N Date Extracted: _____
 Date Analyzed (1): 11/07/11 Time (1): 1221 Date Analyzed (2): _____ Time (2): _____
 Instrument ID (1): GCV5B Instrument ID (2): _____ (mm)
 GC Column (1): _____ ID: _____ (mm) GC Column (2): _____ ID: _____
 Method: MASSVPH Prep Batch: _____ Analytical Batch: 468512
 Lab File ID: 2111107/v5003

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	INSTRUMENT ID
1.	LCS1003188	1003188	11/07/11	1151	GCV5B
2.	ES057	21111042101	11/08/11	0120	GCV5B

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: ES057
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211110421
 Sample wt/vol: 5 Units: mL Lab Sample ID: 21111042101
 Level: (low/med) _____ Date Collected: 11/02/11 Time: 1105
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 11/04/11
 GC Column: _____ ID: _____ (mm) Date Extracted: _____
 Concentrated Extract Volume: 5000 (μ L) Date Analyzed: 11/08/11 Time: 0120
 Soil Aliquot Volume: _____ (μ L) Dilution Factor: 1 Analyst: JAR
 Injection Volume: 1 (μ L) Prep Method: _____
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSVPH
 Prep Batch: _____ Analytical Batch: 468512 Sulfur Cleanup: (Y/N) N Instrument ID: GCV5B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111107/v5025

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCV-00-4	C5-C8 Aliphatic	15.0	U	3.31	15.0	30.0
GCV-00-6	C9-C10 Aromatic	20.6		1.24	5.00	10.0
GCV-00-5	C9-C12 Aliphatic	69.9		3.20	10.0	20.0

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5025.d
Lab Smp Id: 21111042101 Client Smp ID: 21111042101
Inj Date : 08-NOV-2011 01:20
Operator : JAR Inst ID: gcv5b.i
Smp Info : 21111042101
Misc Info :
Comment :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Meth Date : 08-Nov-2011 13:39 jar Quant Type: ESTD
Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: aromatic.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS						
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)	
7 1,2,4-Trimethylbenzene	18.405	16.983	1.422	247907	20.6092	20.6 (M1)	
M 9 C9-C10				247907	20.6092	20.6	
\$ 10 2,5-Dibromotoluene	21.779	21.781	-0.002	406326	58.1125	58.1	

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Data File: /var/chem/gcv5b,i/2111107,b/v5025.d

Page 1

Date : 08-NOV-2011 01:20

Client ID: 21111042101

Instrument: gcv5b.i

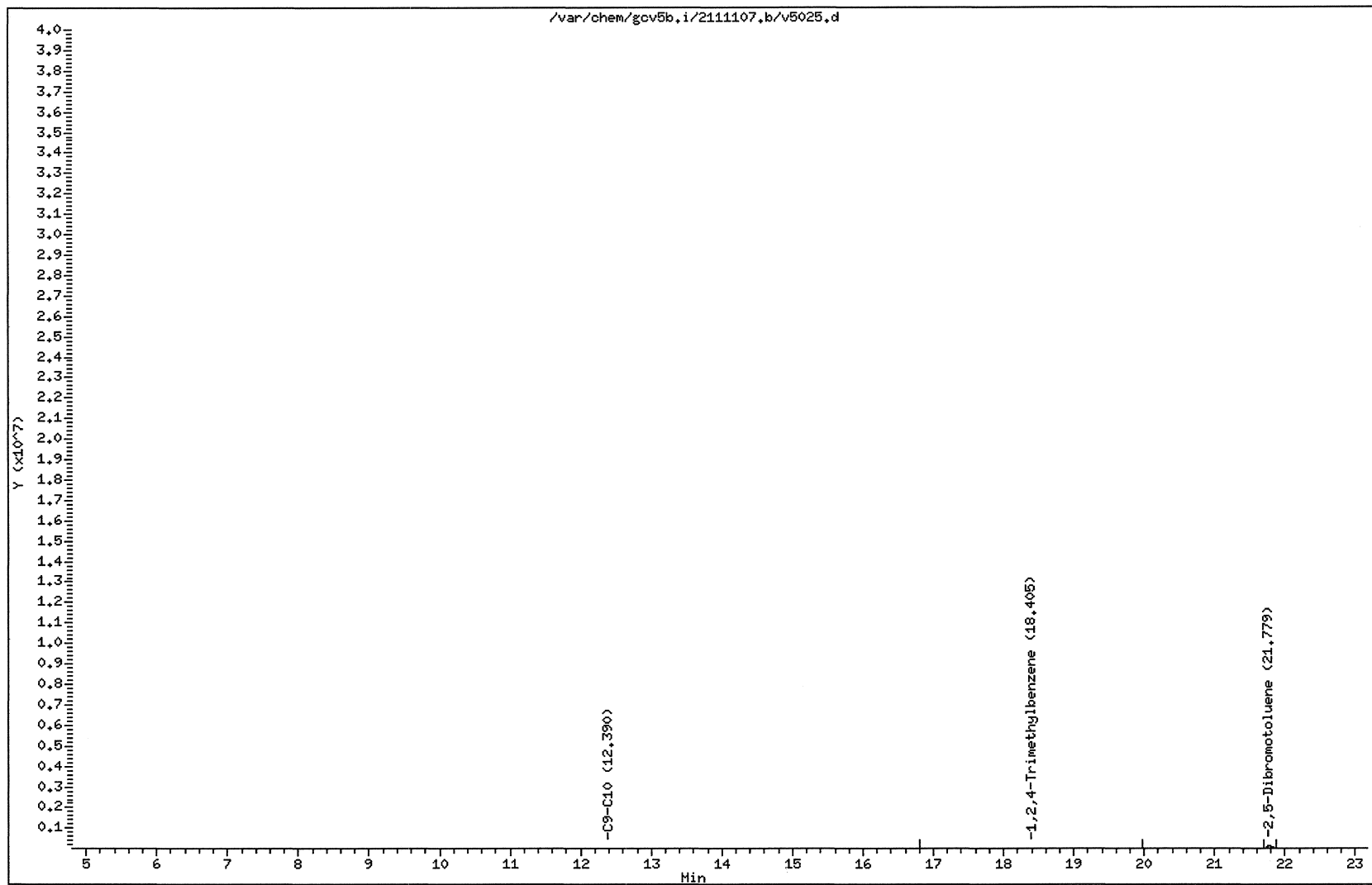
Sample Info: 21111042101

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

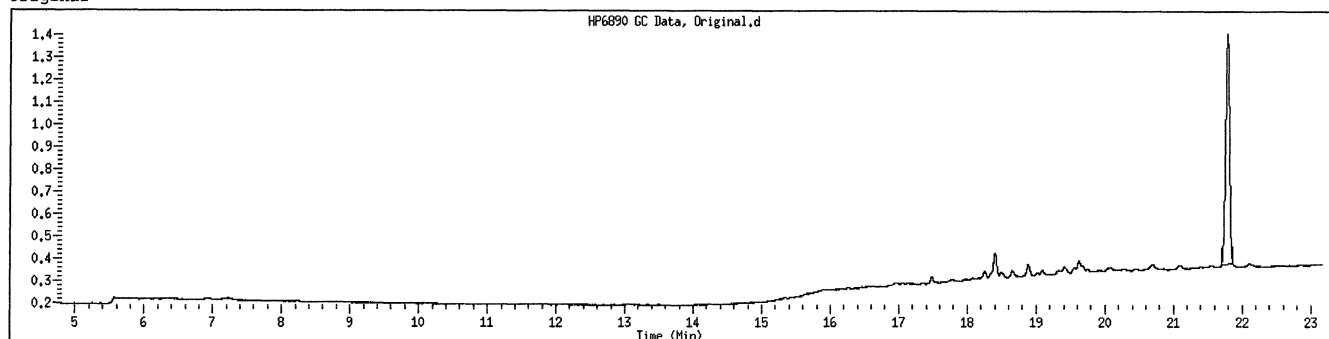


211110421 11

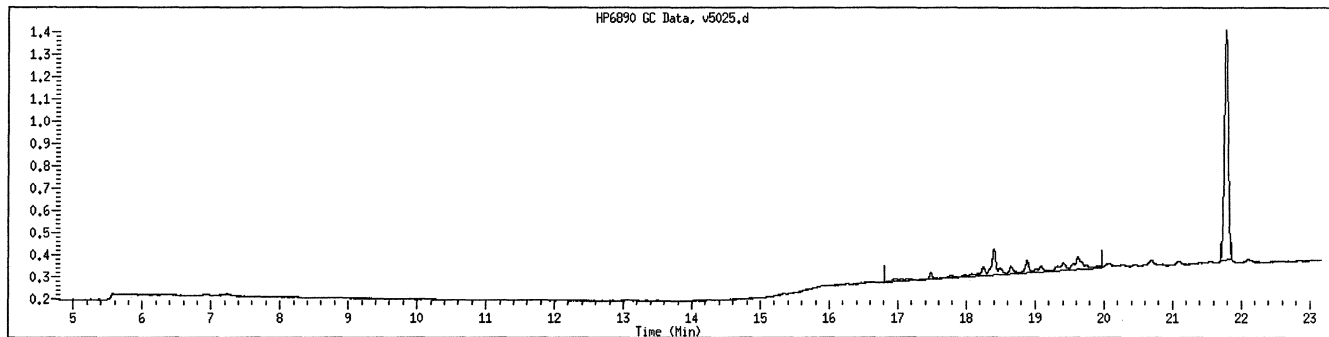
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21111042101 SampleType : SAMPLE
Injection Date: 11/08/2011 01:20 Instrument : gcv5b.i
Operator : JAR
Sample Info : 21111042101
Misc Info :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic

Original



Final



GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5025.d
 Lab Smp Id: 21111042101 Client Smp ID: 21111042101
 Inj Date : 08-NOV-2011 01:20
 Operator : JAR Inst ID: gcv5a.i
 Smp Info : 21111042101
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
 Meth Date : 08-Nov-2011 10:11 jar Quant Type: ESTD
 Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: aliphatic1+surr.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
13 n-Decane	18.052	15.963	2.089	300927	54.1731	54.2 (M1)
15 n-Butylcyclohexane	19.231	16.746	2.485	93759	15.7355	15.7 (M1)
M 5 C9-C12				394686	69.9086	69.9
\$ 17 2,5-Dibromotoluene	21.292	21.301	-0.009	170966	57.1859	57.2

QC Flag Legend

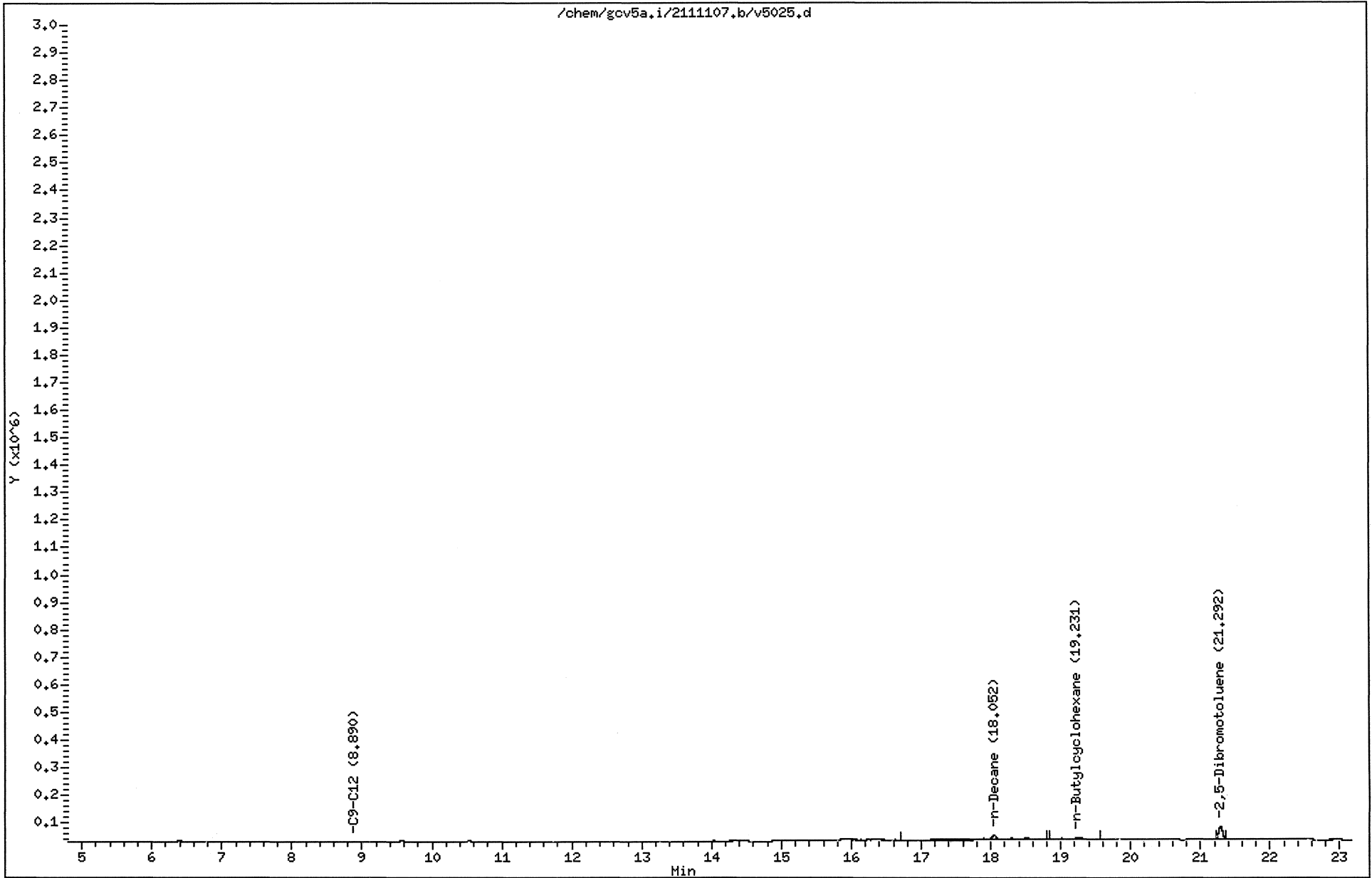
M1- Compound response manually integrated because
 Target system did not integrate.

Data File: /chem/gcv5a.i/2111107.b/v5025.d
Date : 08-NOV-2011 01:20
Client ID: 21111042101
Sample Info: 21111042101
Volume Injected (uL): 1.0
Column phase: DB-624-30

Instrument: gcv5a.i

Operator: JAR

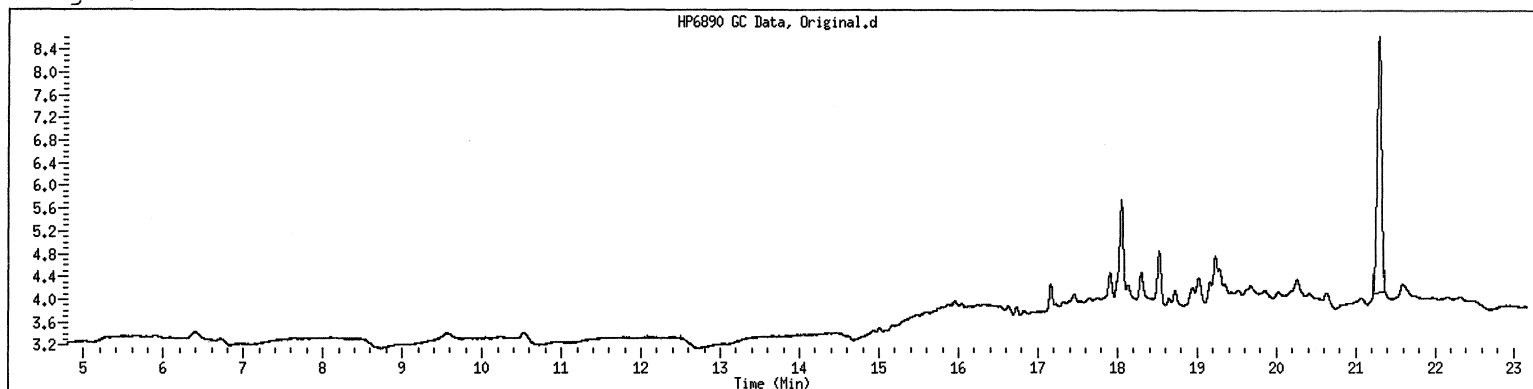
Column diameter: 0,53



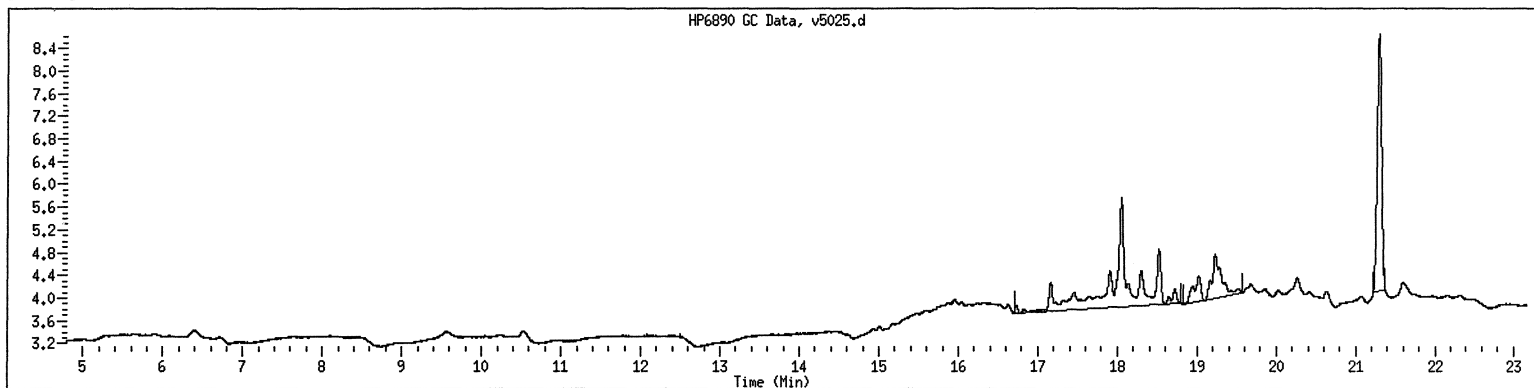
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21111042101 SampleType : SAMPLE
Injection Date: 11/08/2011 01:20 Instrument : gcv5a.i
Operator : JAR
Sample Info : 21111042101
Misc Info :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 05-OCT-2011 17:26
 End Cal Date : 05-NOV-2011 01:52
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
 Cal Date : 08-Nov-2011 15:58 jar
 Curve Type : Average

Calibration File Names:

Level 1: /var/chem/gcv5b.i/2111104P.b/v5003.d
 Level 2: /var/chem/gcv5b.i/2111104P.b/v5005.d
 Level 3: /var/chem/gcv5b.i/2111104P.b/v5007.d
 Level 4: /var/chem/gcv5b.i/2111104P.b/v5009.d
 Level 5: /var/chem/gcv5b.i/2111104P.b/v5011.d
 Level 6: /var/chem/gcv5b.i/2111104P.b/v5001.d

Compound	10.000 Level 1	20.000 Level 2	50.000 Level 3	80.000 Level 4	100.000 Level 5	5.000 Level 6	RRF	% RSD
1 MTBE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Ethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 m,p-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 o-Xylene	14195|	13955|	13772|	12590|	12083|	14822|	13570|	7.600|
7 1,2,4-Trimethylbenzene	12356|	12603|	12435|	11425|	10922|	12432|	12029|	5.703|
8 Naphthalene	10595|	10426|	10486|	9839|	9920|	9852|	10186|	3.453|
M 9 C9-C10	12356|	12603|	12435|	11425|	10922|	12432|	12029|	5.703|
\$ 10 2,5-Dibromotoluene	7122|	6944|	7032|	6909|	6886|	7060|	6992|	1.337|

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111104P.b/v5001.d
 Lab Smp Id: VPH05/6/12/4
 Inj Date : 04-NOV-2011 20:57
 Operator : JAR
 Smp Info : VPH05/6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
 Meth Date : 07-Nov-2011 10:04 jar
 Cal Date : 04-NOV-2011 20:57
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5b.i
 Quant Type: ESTD
 Cal File: v5001.d
 Calibration Sample, Level: 6
 Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

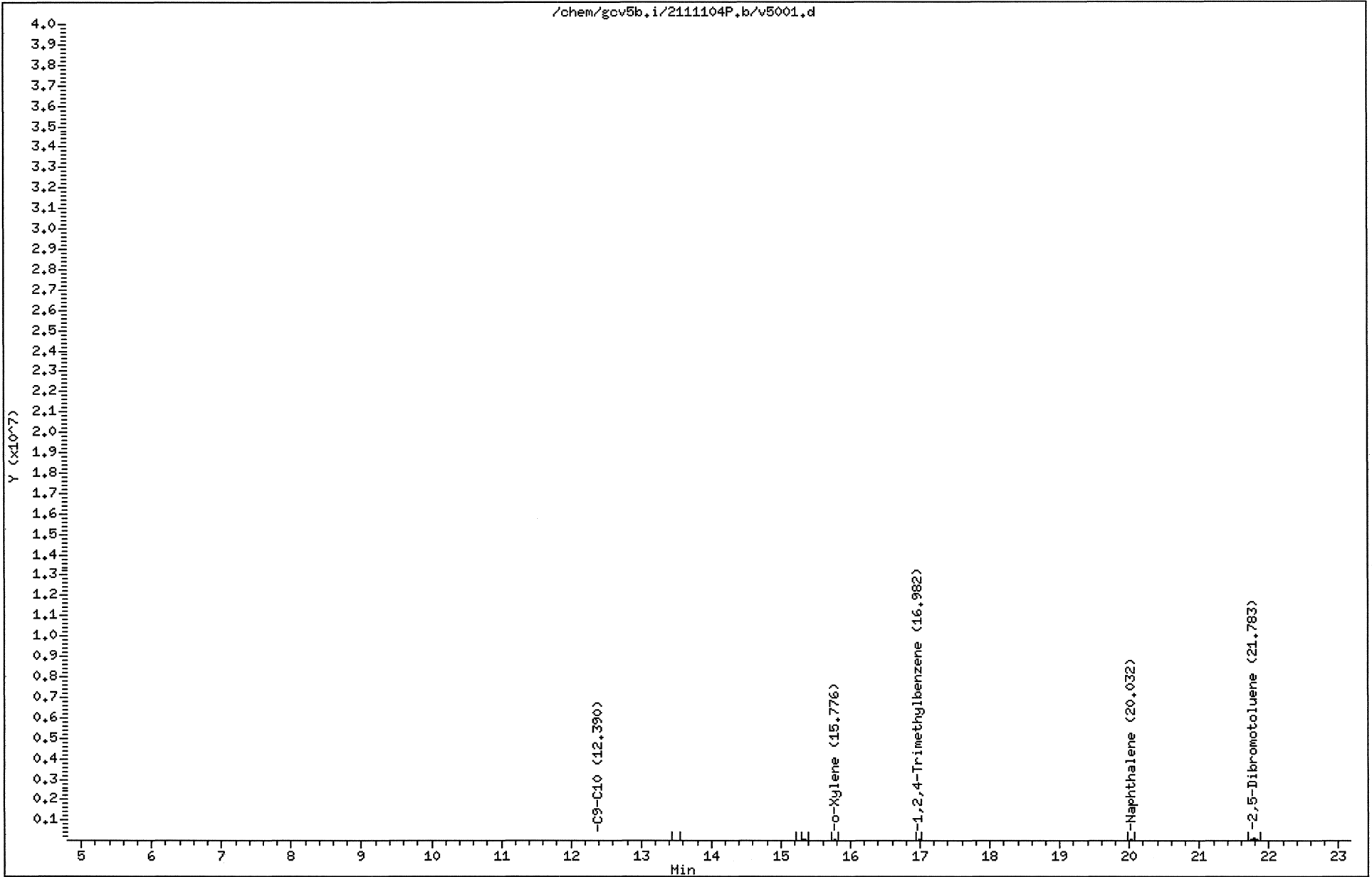
Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
6 o-Xylene	15.776	15.776	0.000	74110	5.00000	7.8
7 1,2,4-Trimethylbenzene	16.982	16.982	0.000	62160	5.00000	7.0
M 9 C9-C10				62160	5.00000	7.0
8 Naphthalene	20.032	20.032	0.000	49258	5.00000	6.2
\$ 10 2,5-Dibromotoluene	21.783	21.783	0.000	353009	50.0000	68.8

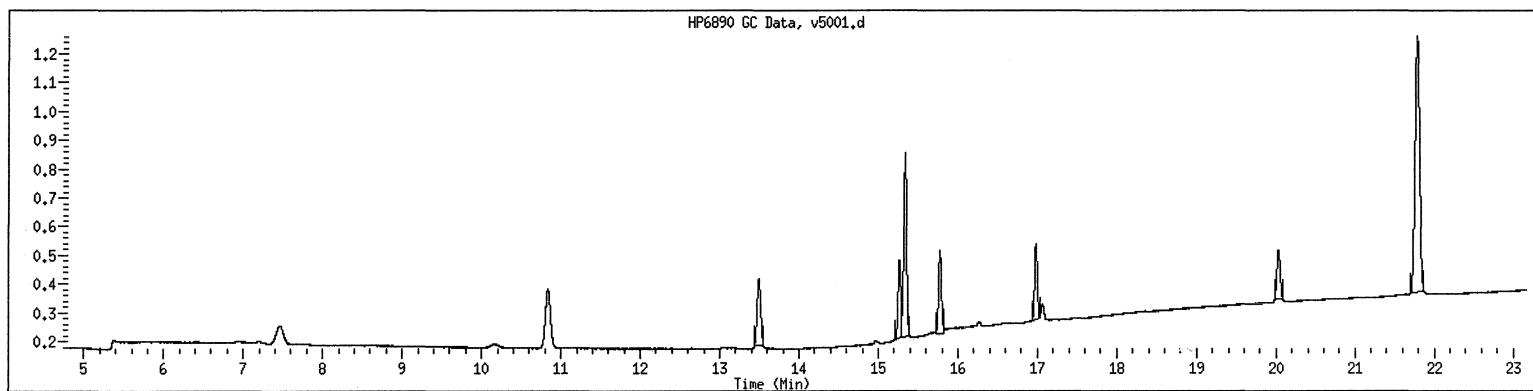
Data File: /chem/gcv5b.i/2111104P.b/v5001.d
Date : 04-NOV-2011 20:57
Client ID:
Sample Info: VPH05/6/12/4
Volume Injected (uL): 1.0
Column phase: DB-624-30

Instrument: gcv5b.i
Operator: JAR
Column diameter: 0.53



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH05/6/12/4 SampleType : CALIB_6
Injection Date: 11/04/2011 20:57 Instrument : gcv5b.i
Operator : JAR
Sample Info : VPH05/6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111104P.b/v5003.d
Lab Smp Id: VPH10/6/12/4
Inj Date : 04-NOV-2011 21:56
Operator : JAR
Smp Info : VPH10/6/12/4
Misc Info :
Comment :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Meth Date : 07-Nov-2011 10:04 jar
Cal Date : 04-NOV-2011 21:56
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Processing Host: org.gcal.com
Inst ID: gcv5b.i
Quant Type: ESTD
Cal File: v5003.d
Calibration Sample, Level: 1
Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
6 o-Xylene	15.776	15.776	0.000	141953	10.0000	13.9
7 1,2,4-Trimethylbenzene	16.982	16.982	0.000	123561	10.0000	13.4
M 9 C9-C10				123561	10.0000	13.4
8 Naphthalene	20.030	20.030	0.000	105949	10.0000	13.0
\$ 10 2,5-Dibromotoluene	21.780	21.780	0.000	356100	50.0000	64.4

Date : 04-NOV-2011 21:56

Client ID:

Instrument: gcv5b.i

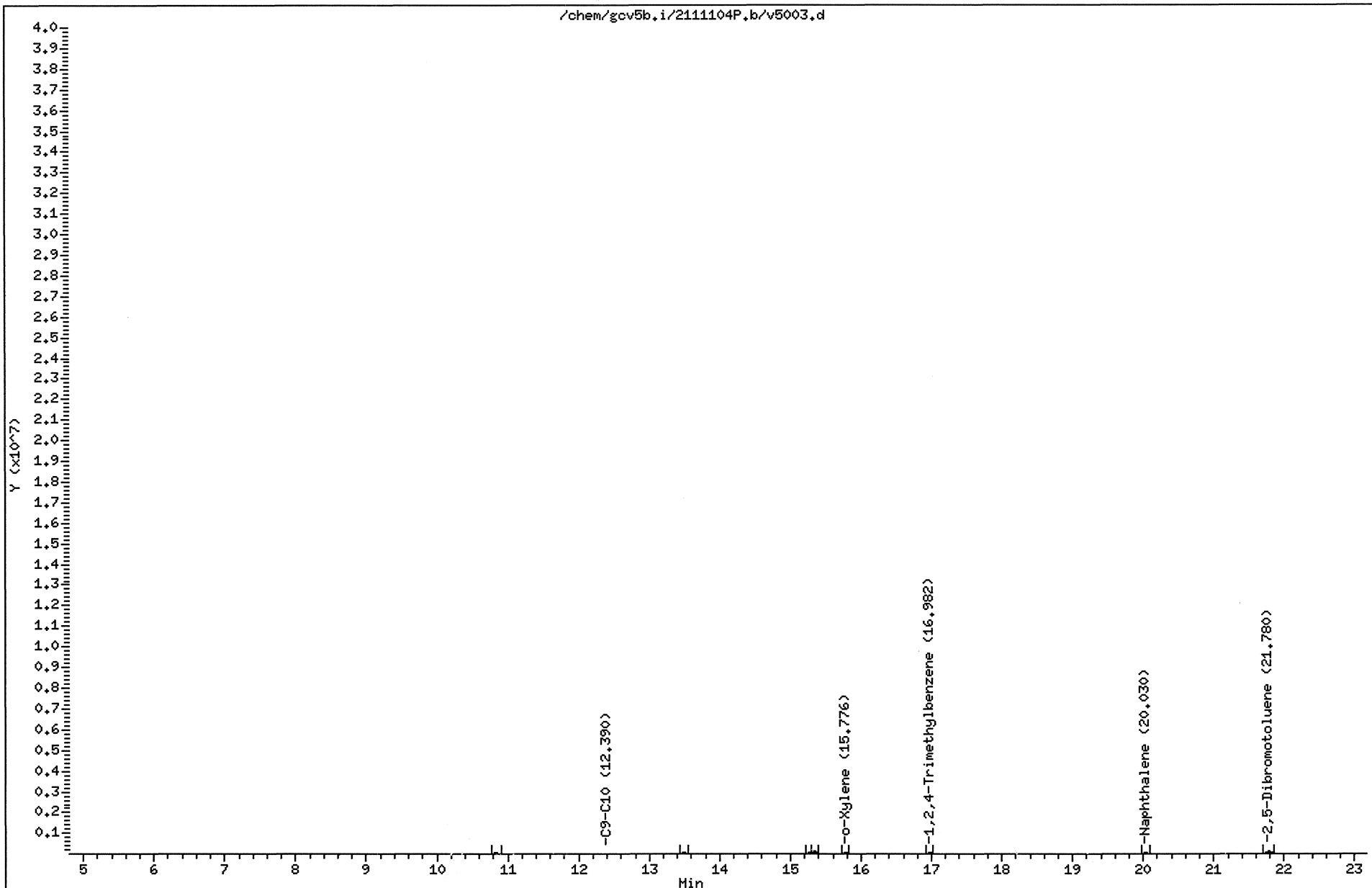
Sample Info: VPH10/6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

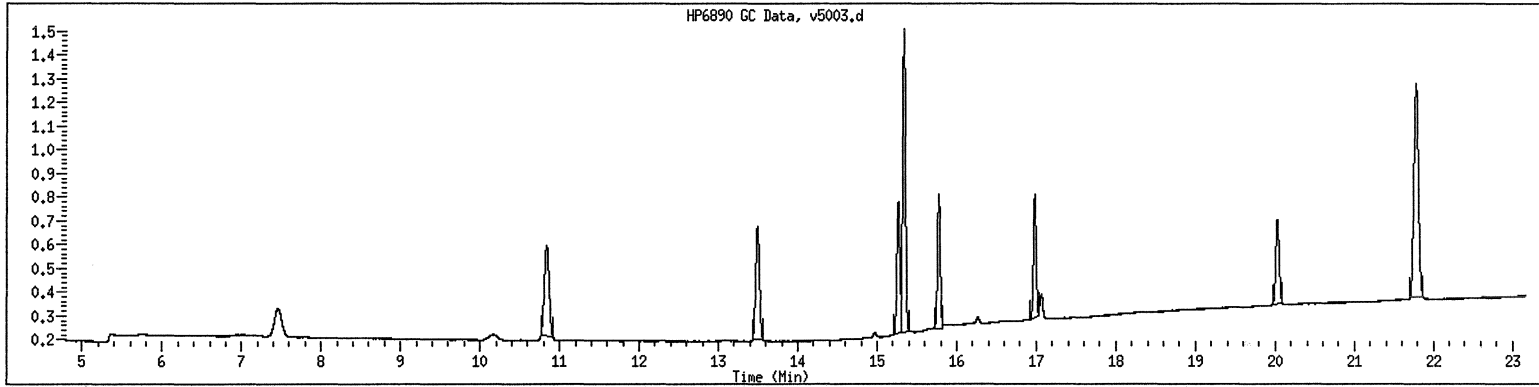
Column diameter: 0.53



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH10/6/12/4 SampleType : CALIB_1
Injection Date: 11/04/2011 21:56 Instrument : gcv5b.i
Operator : JAR
Sample Info : VPH10/6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111104P.b/v5005.d
 Lab Smp Id: VPH20/6/12/4
 Inj Date : 04-NOV-2011 22:55
 Operator : JAR
 Smp Info : VPH20/6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
 Meth Date : 07-Nov-2011 10:04 jar
 Cal Date : 04-NOV-2011 22:55
 Als bottle: 1
 Dil Factor: 50.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5b.i
 Quant Type: ESTD
 Cal File: v5005.d
 Calibration Sample, Level: 2
 Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariab

Name	Value	Description
DF	50.00000	Dilution Factor
Uf	5.00000	Correction factor
Vt	1.00000	Volume of final extract (uL) (1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	5.00000	Weigth of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
6 o-Xylene	15.776	15.776	0.000	279105	20.0000	25.3
7 1,2,4-Trimethylbenzene	16.982	16.982	0.000	252061	20.0000	25.5
M 9 C9-C10				252061	20.0000	25.5
8 Naphthalene	20.028	20.028	0.000	208523	20.0000	24.6
\$ 10 2,5-Dibromotoluene	21.779	21.779	0.000	347190	50.0000	58.7

Date : 04-NOV-2011 22:55

Client ID:

Instrument: gov5b.i

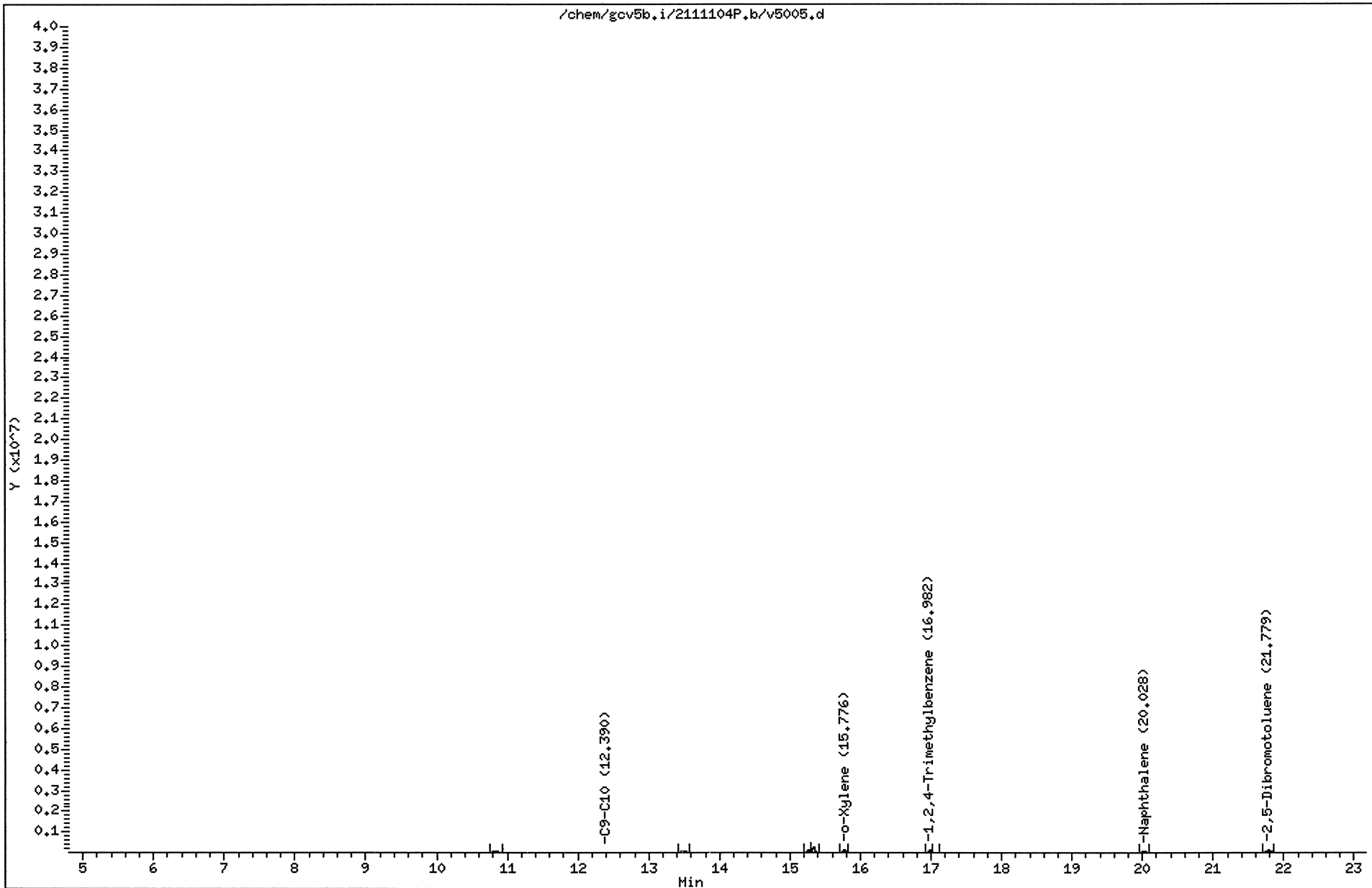
Sample Info: VPH20/6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

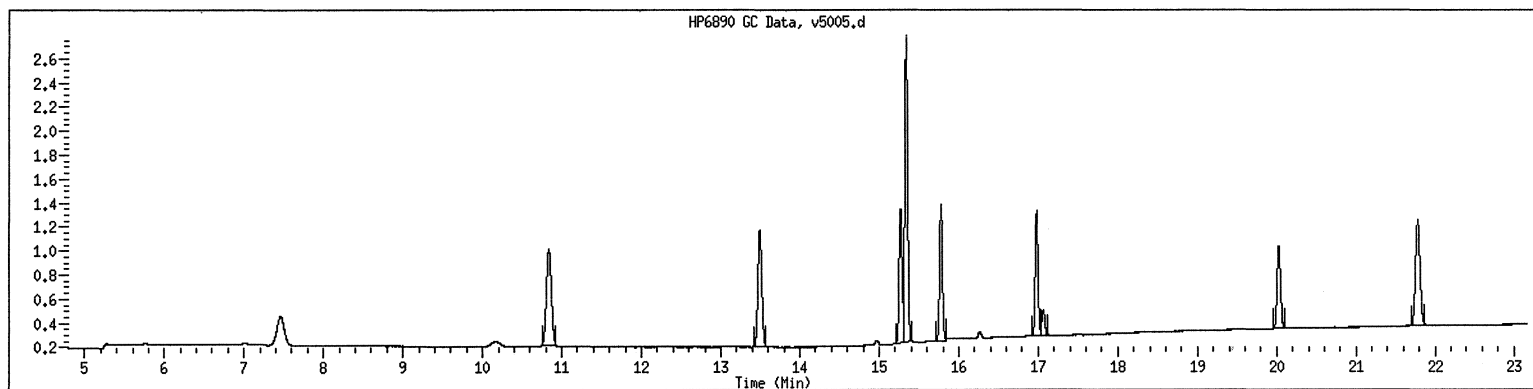
Column diameter: 0.53



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH20/6/12/4 SampleType : CALIB_2
Injection Date: 11/04/2011 22:55 Instrument : gcv5b.i
Operator : JAR
Sample Info : VPH20/6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Dilution : 50.0
Matrix : SOIL
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111104P.b/v5007.d
Lab Smp Id: VPH50/6/12/4
Inj Date : 04-NOV-2011 23:54
Operator : JAR
Smp Info : VPH50/6/12/4
Misc Info :
Comment :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Meth Date : 07-Nov-2011 10:04 jar
Cal Date : 04-NOV-2011 23:54
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Processing Host: org.gcal.com
Inst ID: gcv5b.i
Quant Type: ESTD
Cal File: v5007.d
Calibration Sample, Level: 3
Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
6 o-Xylene	15.775	15.775	0.000	688621	50.0000	56.8
7 1,2,4-Trimethylbenzene	16.980	16.980	0.000	621749	50.0000	57.5
M 9 C9-C10				621749	50.0000	57.5
8 Naphthalene	20.026	20.026	0.000	524320	50.0000	57.1
\$ 10 2,5-Dibromotoluene	21.778	21.778	0.000	351593	50.0000	56.0

Date : 04-NOV-2011 23:54

Client ID:

Instrument: gcv5b.i

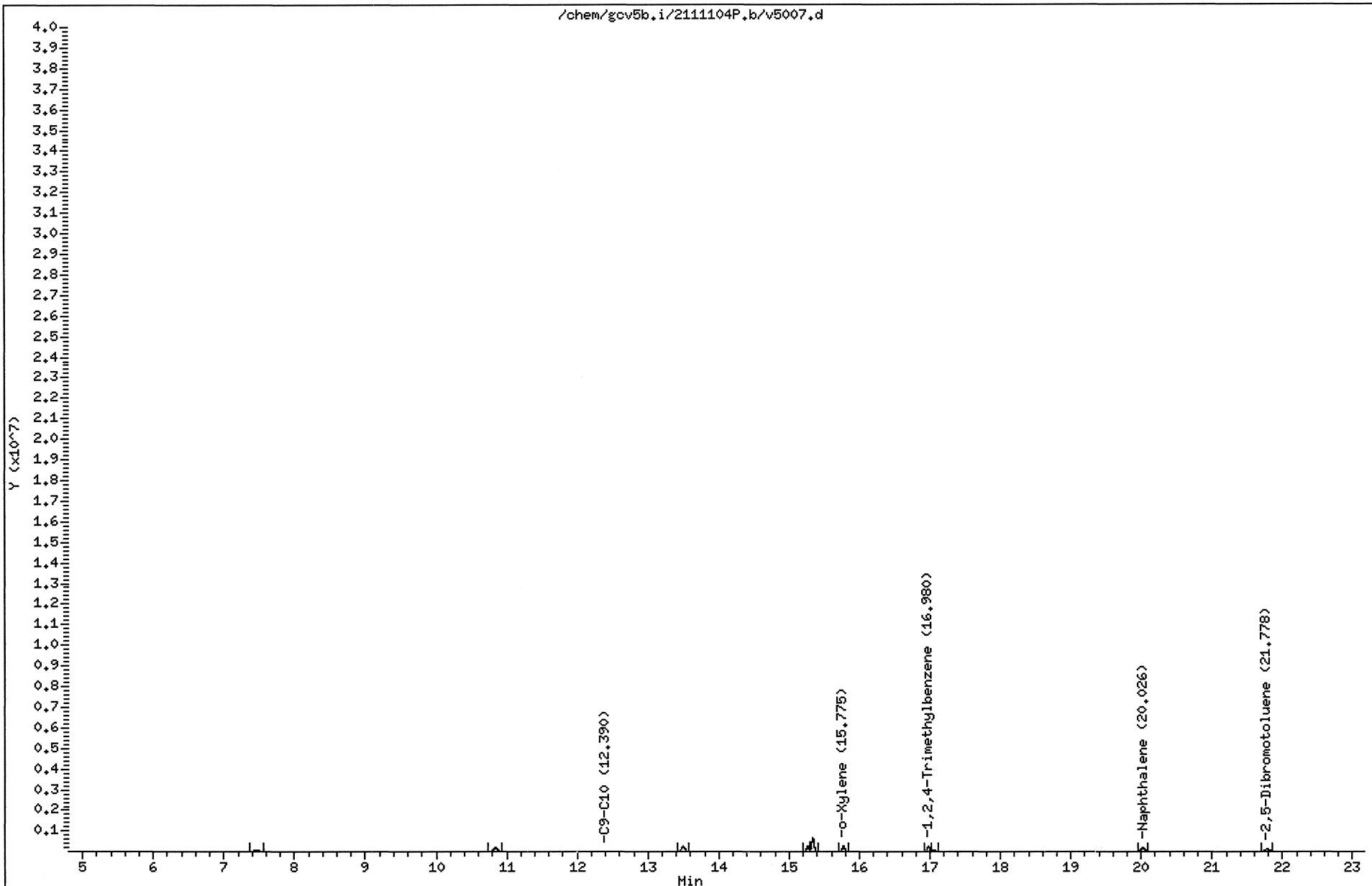
Sample Info: VPH50/6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

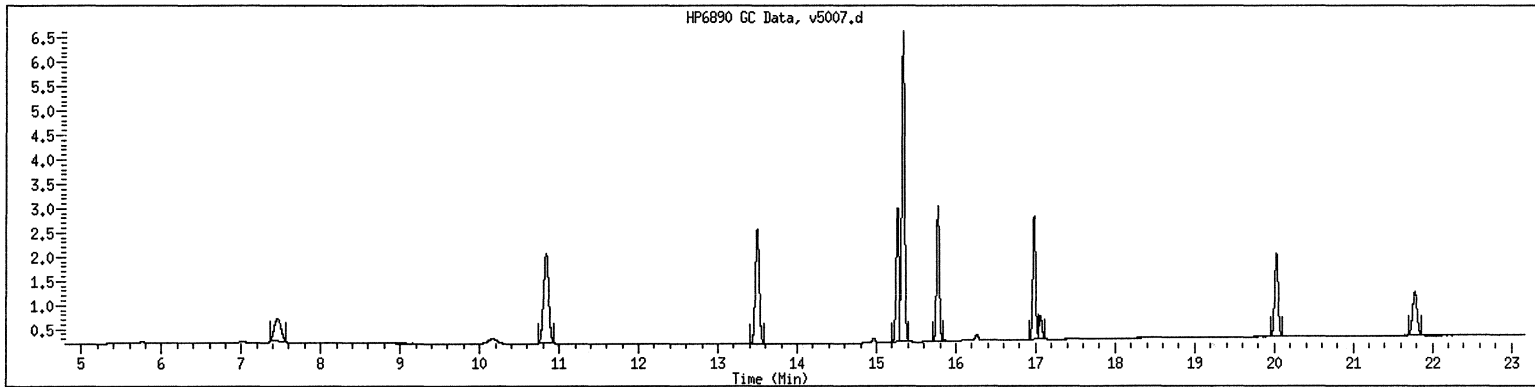
Column diameter: 0.53



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH50/6/12/4 SampleType : CALIB_3
Injection Date: 11/04/2011 23:54 Instrument : gcv5b.i
Operator : JAR
Sample Info : VPH50/6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111104P.b/v5009.d
Lab Smp Id: VPH80/6/12/4
Inj Date : 05-NOV-2011 00:53
Operator : JAR
Smp Info : VPH80/6/12/4
Misc Info :
Comment :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Meth Date : 07-Nov-2011 10:04 jar
Cal Date : 05-NOV-2011 00:53
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Processing Host: org.gcal.com
Inst ID: gcv5b.i
Quant Type: ESTD
Cal File: v5009.d
Calibration Sample, Level: 4
Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

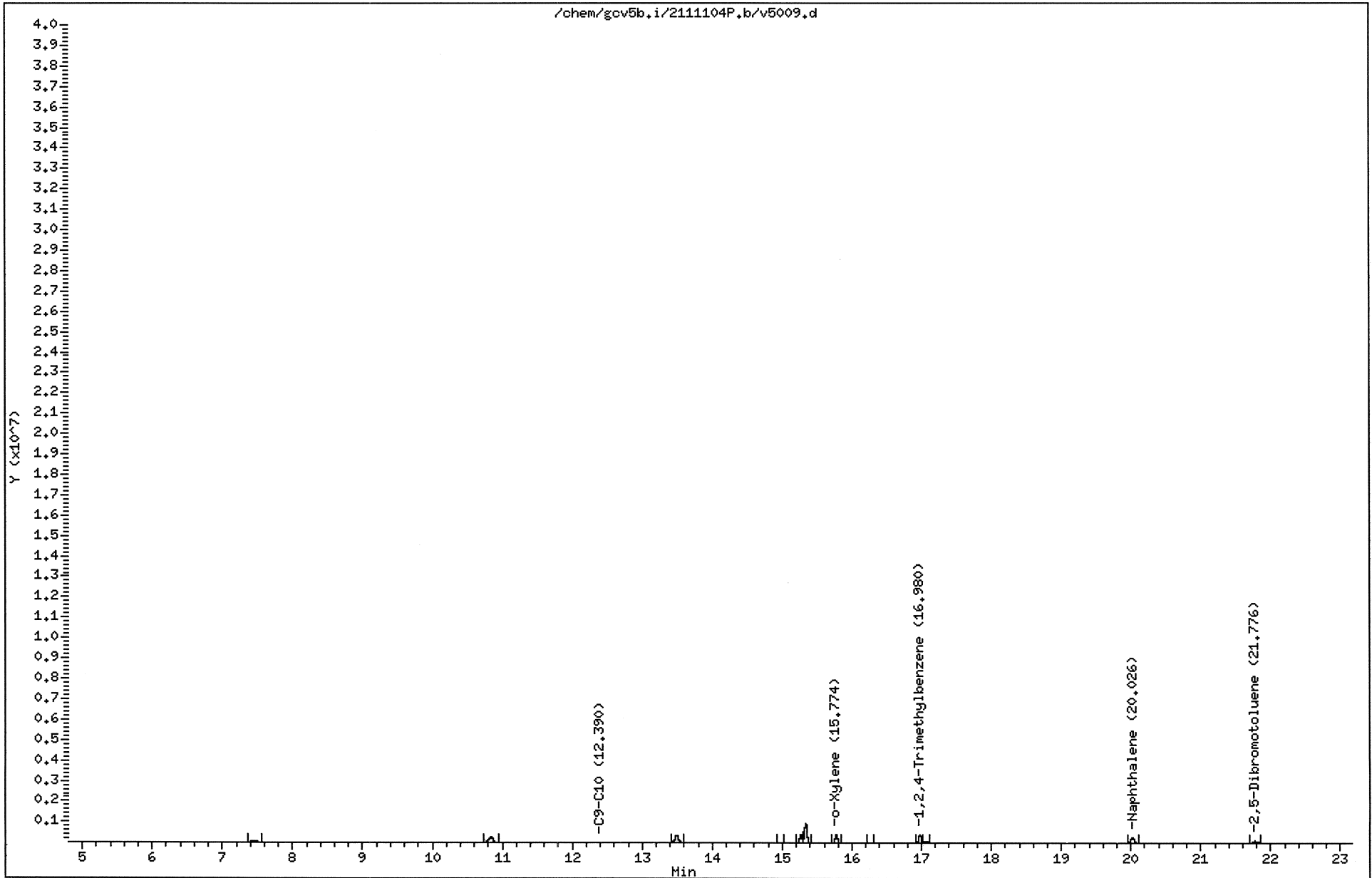
Cpnd Variable

Local Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
6 o-Xylene	15.774	15.774	0.000	1007189	80.0000	78.2
7 1,2,4-Trimethylbenzene	16.980	16.980	0.000	914021	80.0000	79.8
M 9 C9-C10				914021	80.0000	79.8
8 Naphthalene	20.026	20.026	0.000	787100	80.0000	81.3
\$ 10 2,5-Dibromotoluene	21.776	21.776	0.000	345440	50.0000	52.0

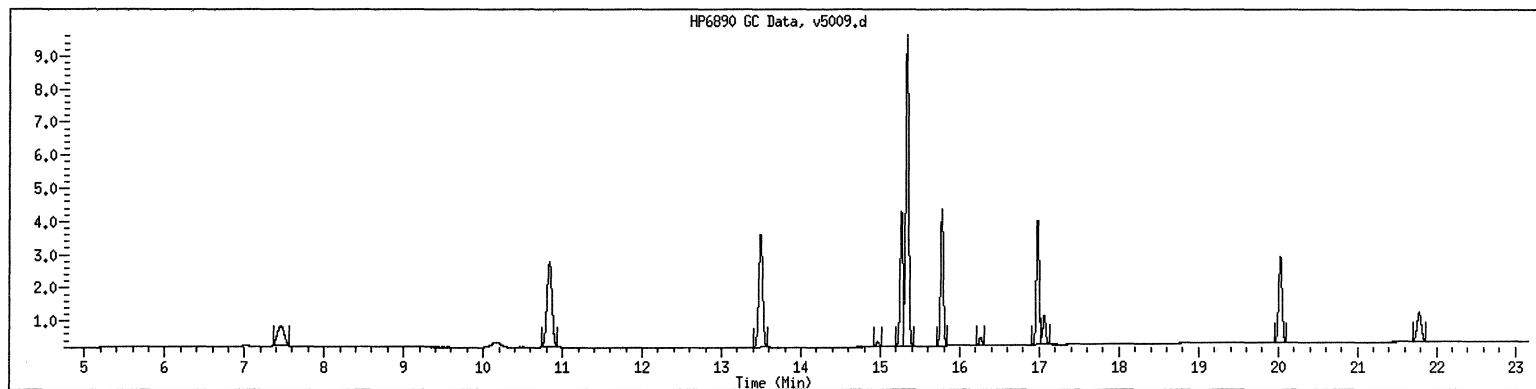
Data File: /chem/gcv5b,i/2111104P,b/v5009.d
Date : 05-NOV-2011 00:53
Client ID:
Sample Info: VPH80/6/12/4
Volume Injected (uL): 1.0
Column phase: DB-624-30

Instrument: gcv5b,i
Operator: JAR
Column diameter: 0,53



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH80/6/12/4 SampleType : CALIB_4
Injection Date: 11/05/2011 00:53 Instrument : gcv5b.i
Operator : JAR
Sample Info : VPH80/6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111104P.b/v5011.d
Lab Smp Id: VPH100/6/12/4
Inj Date : 05-NOV-2011 01:52
Operator : JAR
Smp Info : VPH100/6/12/4
Misc Info :
Comment :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Meth Date : 07-Nov-2011 10:04 jar
Cal Date : 05-NOV-2011 01:52
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Processing Host: org.gcal.com

Inst ID: gcv5b.i
Quant Type: ESTD
Cal File: v5011.d
Calibration Sample, Level: 5
Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

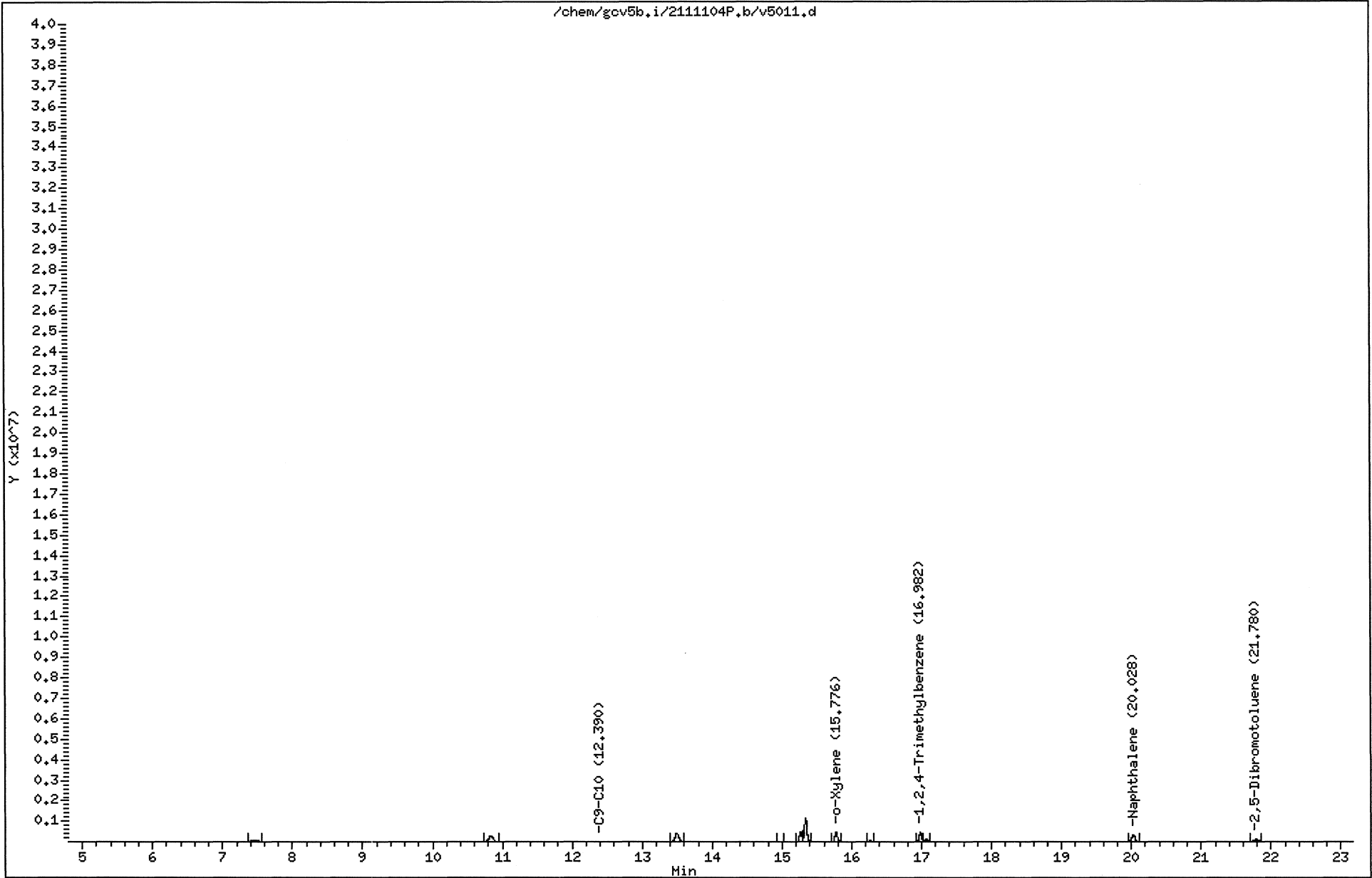
Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS						
	RT	EXP RT	DLT RT	RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
6 o-Xylene	15.776	15.776	0.000		1208340	100.000	89.0
7 1,2,4-Trimethylbenzene	16.982	16.982	0.000		1092238	100.000	90.8
M 9 C9-C10					1092238	100.000	90.8
8 Naphthalene	20.028	20.028	0.000		991962	100.000	97.4
\$ 10 2,5-Dibromotoluene	21.780	21.780	0.000		344287	50.0000	49.2

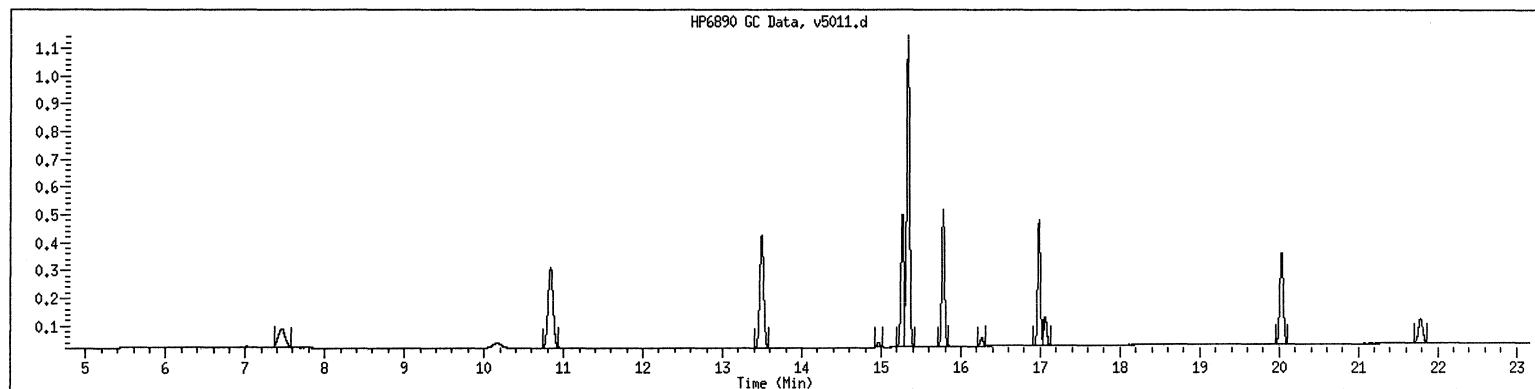
Data File: /chem/gcv5b,i/2111104P,b/v5011.d
Date : 05-NOV-2011 01:52
Client ID:
Sample Info: VPH100/6/12/4
Volume Injected (uL): 1.0
Column phase: DB-624-30

Instrument: gcv5b,i
Operator: JAR
Column diameter: 0.53



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH100/6/12/4 SampleType : CALIB_5
Injection Date: 11/05/2011 01:52 Instrument : gcv5b.i
Operator : JAR
Sample Info : VPH100/6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

RECOVERY REPORT

Client Name: Client SDG: 2111104P
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: ICV6/12/5
Level: MED Operator: JAR
Data Type: GC MULTI COMP SampleType: LCS
SpikeList File: aromatic1.spk Quant Type: ESTD
Sublist File: aromatic.sub
Method File: /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Misc Info:

SPIKE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
6 o-Xylene	50.0	51.2	102.42	70-130
7 1,2,4-Trimethylbenzene	50.0	52.8	105.56	70-130
M 9 C9-C10	50.0	52.8	105.56	70-130

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 10 2,5-Dibromotoluene	50.0	51.3	102.55	60-140

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111104P.b/v5013.d
 Lab Smp Id: ICV6/12/5
 Inj Date : 05-NOV-2011 02:51
 Operator : JAR
 Smp Info : ICV6/12/5
 Misc Info :
 Comment :
 Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
 Meth Date : 07-Nov-2011 10:04 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 50.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5b.i
 Quant Type: ESTD
 Cal File: v5011.d
 QC Sample: LCS
 Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariab

Name	Value	Description
DF	50.00000	Dilution Factor
Uf	5.00000	Correction factor
Vt	1.00000	Volume of final extract (uL) (1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	5.00000	Weigh of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/Kg)
6 o-Xylene	15.775	15.776	-0.001	694928	51.2117	2560
7 1,2,4-Trimethylbenzene	16.980	16.982	-0.002	634872	52.7787	2640
M 9 C9-C10				634872	52.7787	2640
8 Naphthalene	20.027	20.028	-0.001	569432	55.9022	2800
\$ 10 2,5-Dibromotoluene	21.777	21.780	-0.003	358526	51.2761	2560

Date : 05-NOV-2011 02:51

Client ID:

Instrument: gcv5b.i

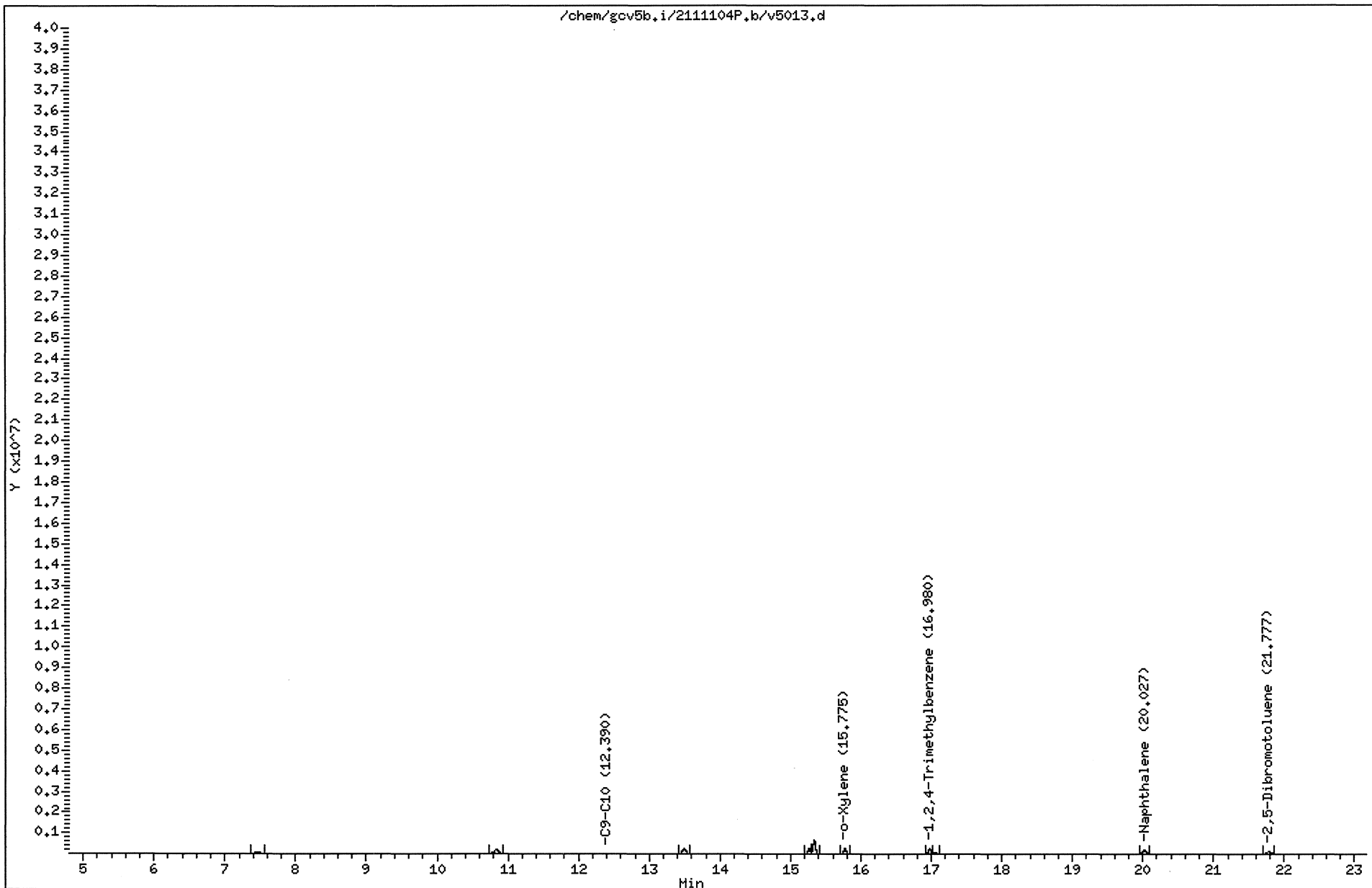
Sample Info: ICV6/12/5

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

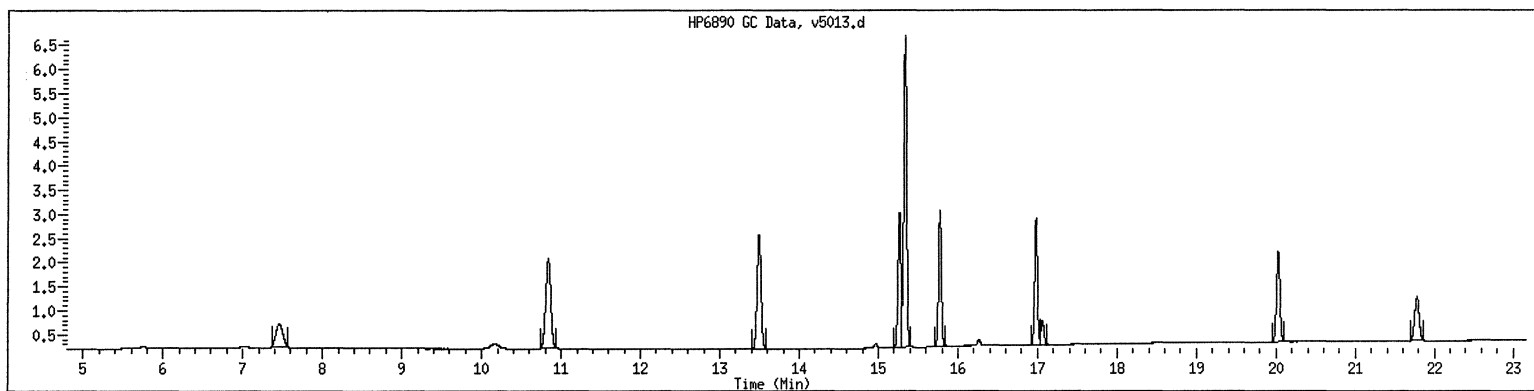
Column diameter: 0,53



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : ICV6/12/5 SampleType : LCS
Injection Date: 11/05/2011 02:51 Instrument : gcv5b.i
Operator : JAR
Sample Info : ICV6/12/5
Misc Info :
Method : /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
Dilution : 50.0
Matrix : SOIL
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcv5b.i Injection Date: 07-NOV-2011 11:22
Lab File ID: v5001.d Init. Cal. Date(s): 05-OCT-2011 05-NOV-2011
Analysis Type: SOIL Init. Cal. Times: 17:26 01:52
Lab Sample ID: VPH6/12/4 Quant Type: ESTD
Method: /var/chem/gcv5b.i/2111107.b/PIDMVPH.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
6 o-Xylene	13570	14032	0.010	-3.40445	25.00000	Averaged
7 1,2,4-Trimethylbenzene	12029	12938	0.010	-7.55906	25.00000	Averaged
M 9 C9-C10	12029	12938	0.010	-7.55906	25.00000	Averaged
8 Naphthalene	10186	10852	0.010	-6.53786	25.00000	Averaged
\$ 10 2,5-Dibromotoluene	6992	7243	0.010	-3.59117	30.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 5.73032
Maximun Average %D/Drift = 25.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5001.d
Lab Smp Id: VPH6/12/4
Inj Date : 07-NOV-2011 11:22
Operator : JAR
Smp Info : VPH6/12/4
Misc Info :
Comment :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Meth Date : 08-Nov-2011 13:26 jar
Cal Date : 05-NOV-2011 01:52
Als bottle: 1
Dil Factor: 50.00000
Integrator: Falcon
Target Version: 3.50
Processing Host: org.gcal.com
Inst ID: gcv5b.i
Quant Type: ESTD
Cal File: v5011.d
Continuing Calibration Sample
Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariab

Name	Value	Description
DF	50.00000	Dilution Factor
Uf	5.00000	Correction factor
Vt	1.00000	Volume of final extract (uL) (1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	5.00000	Weigth of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
6 o-Xylene	15.775	15.775	0.000	701584	50.0000	51.7
7 1,2,4-Trimethylbenzene	16.981	16.981	0.000	646912	50.0000	53.8
M 9 C9-C10				646912	50.0000	53.8
8 Naphthalene	20.027	20.027	0.000	542610	50.0000	53.3
\$ 10 2,5-Dibromotoluene	21.778	21.778	0.000	362158	50.0000	51.8

Date : 07-NOV-2011 11:22

Client ID:

Instrument: gcv5b.i

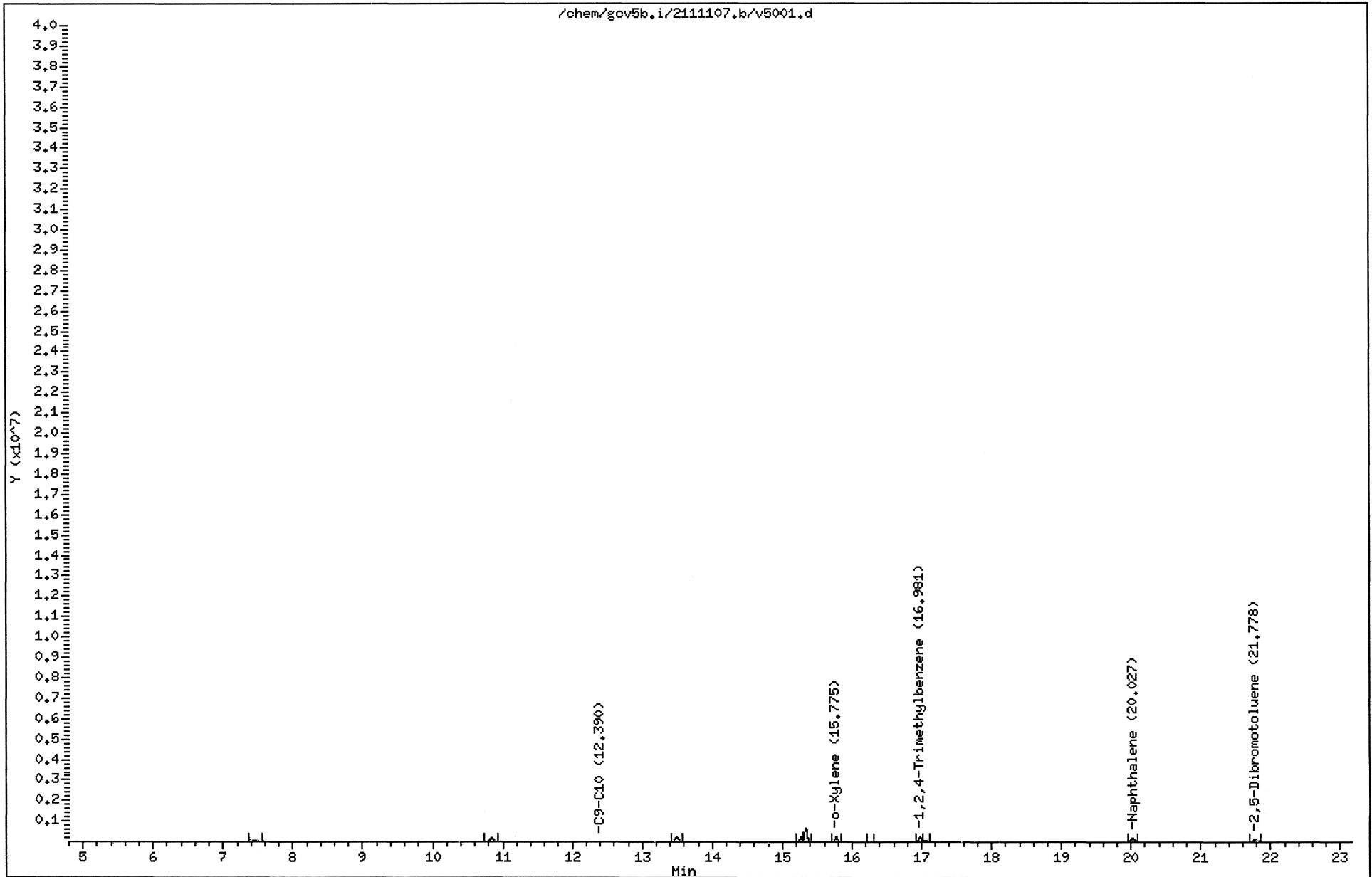
Sample Info: VPH6/12/4

Operator: JAR

Volume Injected (uL): 1.0

Column diameter: 0.53

Column phase: DB-624-30

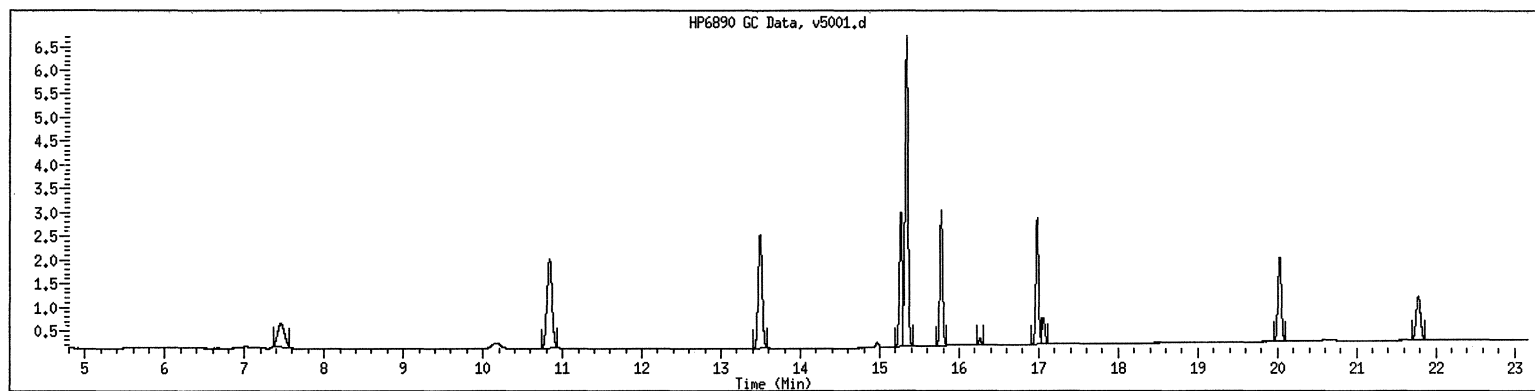


MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH6/12/4
Injection Date: 11/07/2011 11:22
Operator : JAR
Sample Info : VPH6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 50.0
Matrix : SOIL
Integrator : Falcon

SampleType : CCALIB_3
Instrument : gcv5b.i

Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcv5b.i Injection Date: 07-NOV-2011 16:16
Lab File ID: v5011.d Init. Cal. Date(s): 05-OCT-2011 05-NOV-2011
Analysis Type: SOIL Init. Cal. Times: 17:26 01:52
Lab Sample ID: VPH6/12/4 Quant Type: ESTD
Method: /var/chem/gcv5b.i/2111107.b/PIDMVPH.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
6 o-Xylene	13570	13412	0.010	1.16027	25.00000	Averaged
7 1,2,4-Trimethylbenzene	12029	13121	0.010	-9.07507	25.00000	Averaged
M 9 C9-C10	12029	13121	0.010	-9.07507	25.00000	Averaged
8 Naphthalene	10186	10461	0.010	-2.69817	25.00000	Averaged
\$ 10 2,5-Dibromotoluene	6992	7139	0.010	-2.10262	30.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 4.82224
Maximun Average %D/Drift = 25.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5011.d
 Lab Smp Id: VPH6/12/4
 Inj Date : 07-NOV-2011 16:16
 Operator : JAR
 Smp Info : VPH6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
 Meth Date : 08-Nov-2011 13:32 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 50.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5b.i
 Quant Type: ESTD
 Cal File: v5011.d
 Continuing Calibration Sample
 Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vi * Ws * (100 - M) / 100) * CpndVariab

Name	Value	Description
DF	50.00000	Dilution Factor
Uf	5.00000	Correction factor
Vt	1.00000	Volume of final extract (uL) (1000 low, 2
Vi	1.00000	Volume injected (uL)
Ws	5.00000	Weighth of sample extracted (g)
M	0.00000	% Moisture

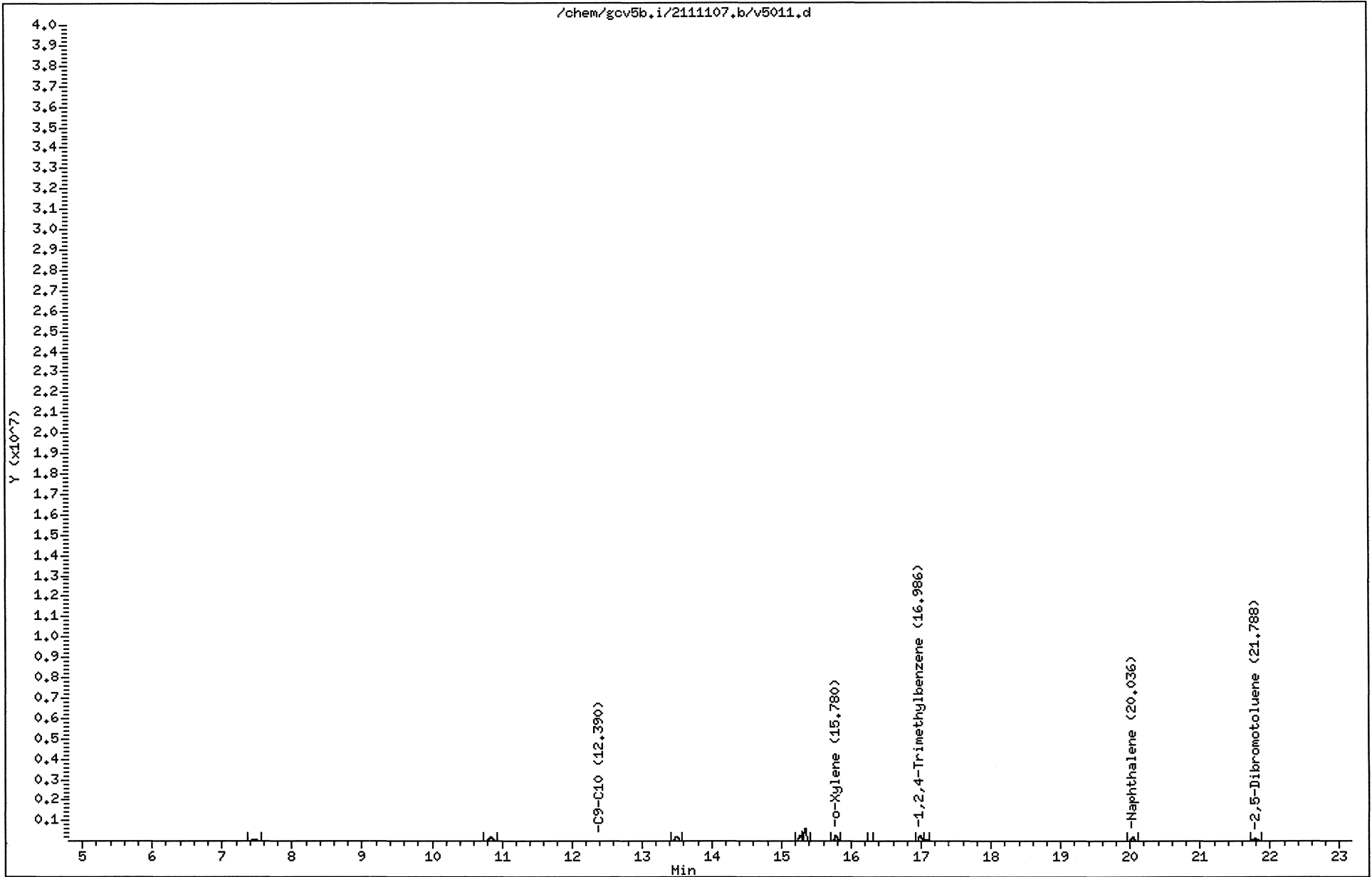
Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
6 o-Xylene	15.780	15.780	0.000	670613	50.0000	49.4
7 1,2,4-Trimethylbenzene	16.986	16.986	0.000	656030	50.0000	54.5
M 9 C9-C10				656030	50.0000	54.5
8 Naphthalene	20.036	20.036	0.000	523054	50.0000	51.3
\$ 10 2,5-Dibromotoluene	21.788	21.788	0.000	356954	50.0000	51.0

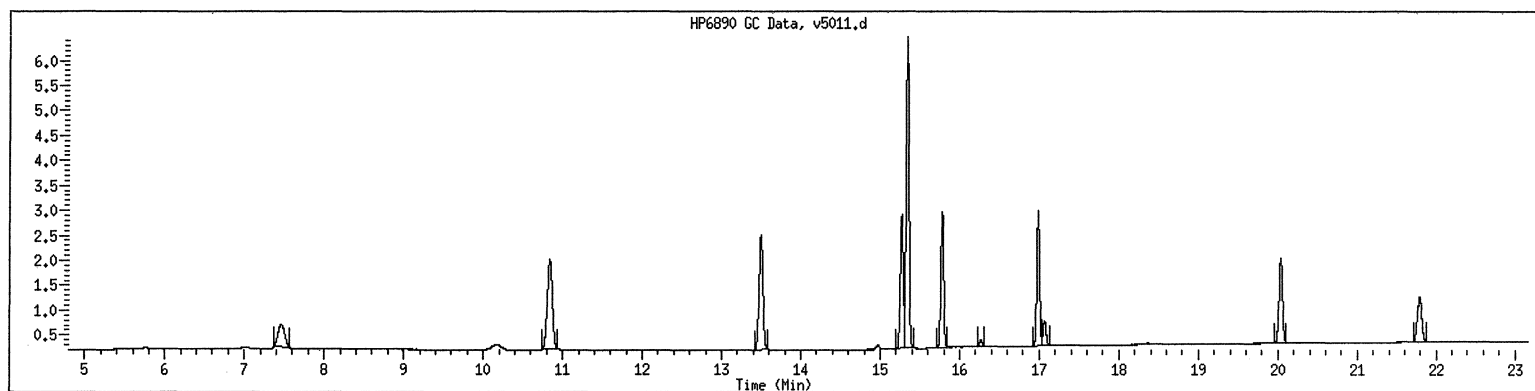
Data File: /chem/gcv5b.i/2111107.b/v5011.d
Date : 07-NOV-2011 16:16
Client ID:
Sample Info: VPH6/12/4
Volume Injected (uL): 1.0
Column phase: DB-624-30

Instrument: gcv5b.i
Operator: JAR
Column diameter: 0.53



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH6/12/4 SampleType : CCALIB_3
Injection Date: 11/07/2011 16:16 Instrument : gcv5b.i
Operator : JAR
Sample Info : VPH6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 50.0
Matrix : SOIL
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcv5b.i Injection Date: 07-NOV-2011 23:22
Lab File ID: v5021.d Init. Cal. Date(s): 05-OCT-2011 05-NOV-2011
Analysis Type: WATER Init. Cal. Times: 17:26 01:52
Lab Sample ID: VPH6/12/4 Quant Type: ESTD
Method: /var/chem/gcv5b.i/2111107.b/PIDMVPH.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
6 o-Xylene	13570	13889	0.010	-2.35270	25.00000	Averaged
7 1,2,4-Trimethylbenzene	12029	12645	0.010	-5.11962	25.00000	Averaged
M 9 C9-C10	12029	12645	0.010	-5.11962	25.00000	Averaged
8 Naphthalene	10186	11058	0.010	-8.56157	25.00000	Averaged
9 10 2,5-Dibromotoluene	6992	7984	0.010	-14.18718	30.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 7.06814
Maximun Average %D/Drift = 25.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5021.d
Lab Smp Id: VPH6/12/4
Inj Date : 07-NOV-2011 23:22
Operator : JAR
Smp Info : VPH6/12/4
Misc Info :
Comment :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Meth Date : 08-Nov-2011 13:32 jar
Cal Date : 05-NOV-2011 01:52
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Processing Host: org.gcal.com

Inst ID: gcv5b.i
Quant Type: ESTD
Cal File: v5011.d
Continuing Calibration Sample
Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	AMOUNTS						
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)	
6 o-Xylene	15.777	15.777	0.000	694448	50.0000	51.2	
7 1,2,4-Trimethylbenzene	16.983	16.983	0.000	632240	50.0000	52.6	
M 9 C9-C10				632240	50.0000	52.6	
8 Naphthalene	20.029	20.029	0.000	552917	50.0000	54.3	
\$ 10 2,5-Dibromotoluene	21.781	21.781	0.000	399202	50.0000	57.1	

Date : 07-NOV-2011 23:22

Client ID:

Instrument: gcv5b.i

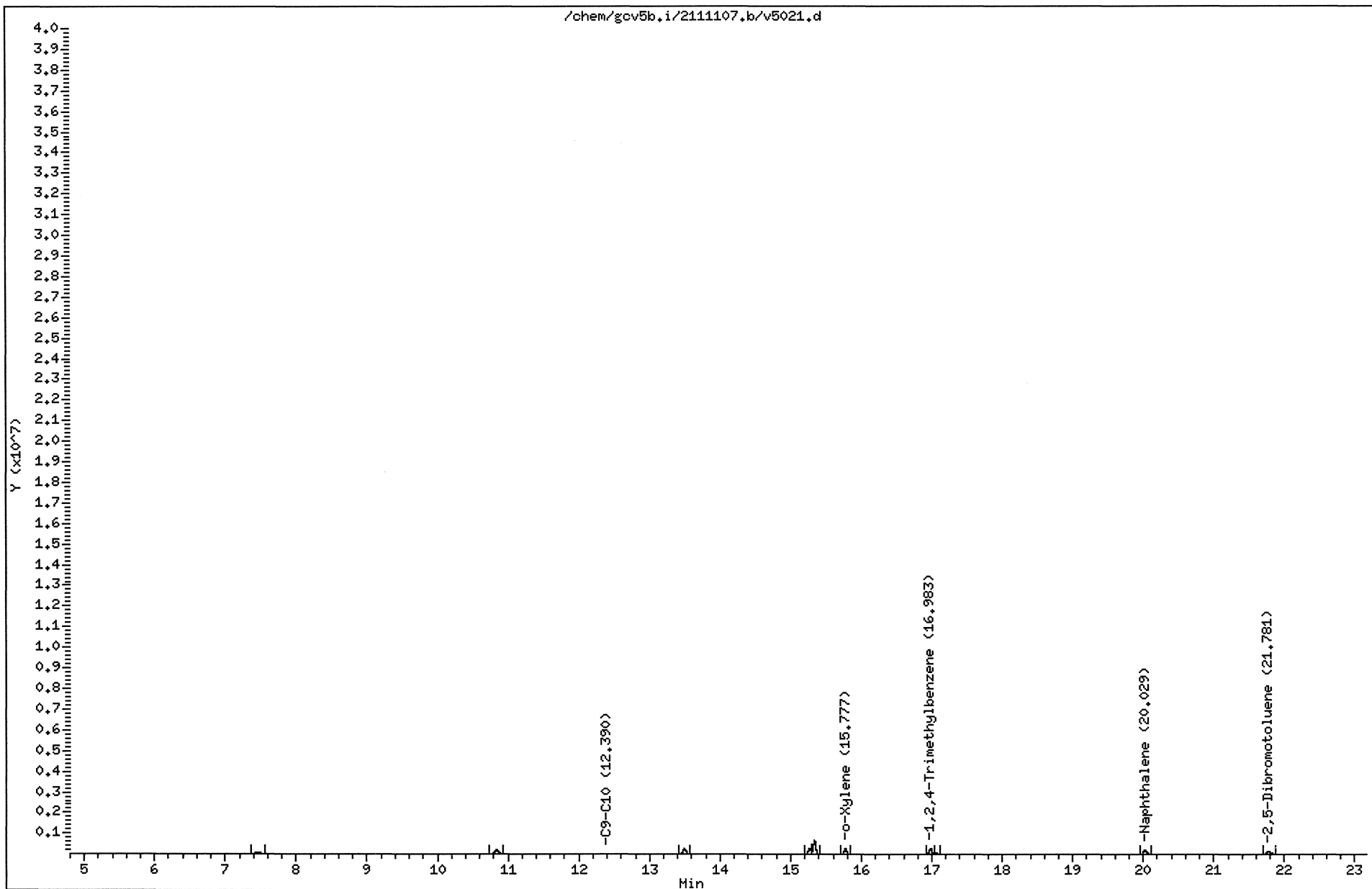
Sample Info: VPH6/12/4

Volume Injected (uL): 1.0

Operator: JAR

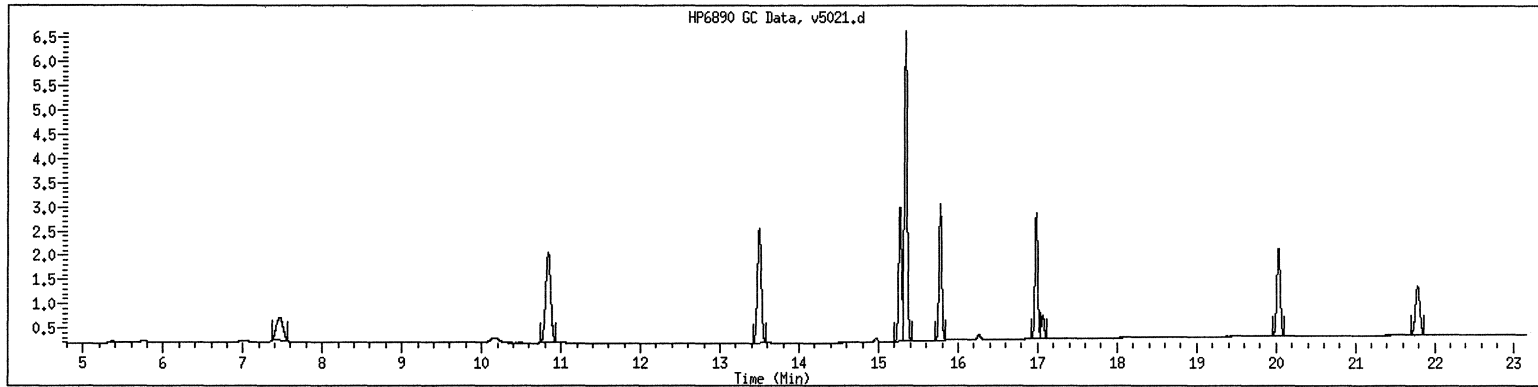
Column phase: DB-624-30

Column diameter: 0.53



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH6/12/4 SampleType : CCALIB_3
Injection Date: 11/07/2011 23:22 Instrument : gcv5b.i
Operator : JAR
Sample Info : VPH6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcv5b.i Injection Date: 08-NOV-2011 01:49
Lab File ID: v5026.d Init. Cal. Date(s): 05-OCT-2011 05-NOV-2011
Analysis Type: WATER Init. Cal. Times: 17:26 01:52
Lab Sample ID: VPH6/12/4 Quant Type: ESTD
Method: /var/chem/gcv5b.i/2111107.b/PIDMVPH.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
6 o-Xylene	13570	15457	0.010	-13.90535	25.00000	Averaged
7 1,2,4-Trimethylbenzene	12029	14145	0.010	-17.58869	25.00000	Averaged
M 9 C9-C10	12029	14145	0.010	-17.58869	25.00000	Averaged
8 Naphthalene	10186	11684	0.010	-14.70319	25.00000	Averaged
\$ 10 2,5-Dibromotoluene	6992	8054	0.010	-15.19175	30.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 15.79553

Maximum Average %D/Drift = 25.00000

* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5026.d
 Lab Smp Id: VPH6/12/4
 Inj Date : 08-NOV-2011 01:49
 Operator : JAR
 Smp Info : VPH6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
 Meth Date : 08-Nov-2011 13:32 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5b.i
 Quant Type: ESTD
 Cal File: v5011.d
 Continuing Calibration Sample
 Compound Sublist: aromatic.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

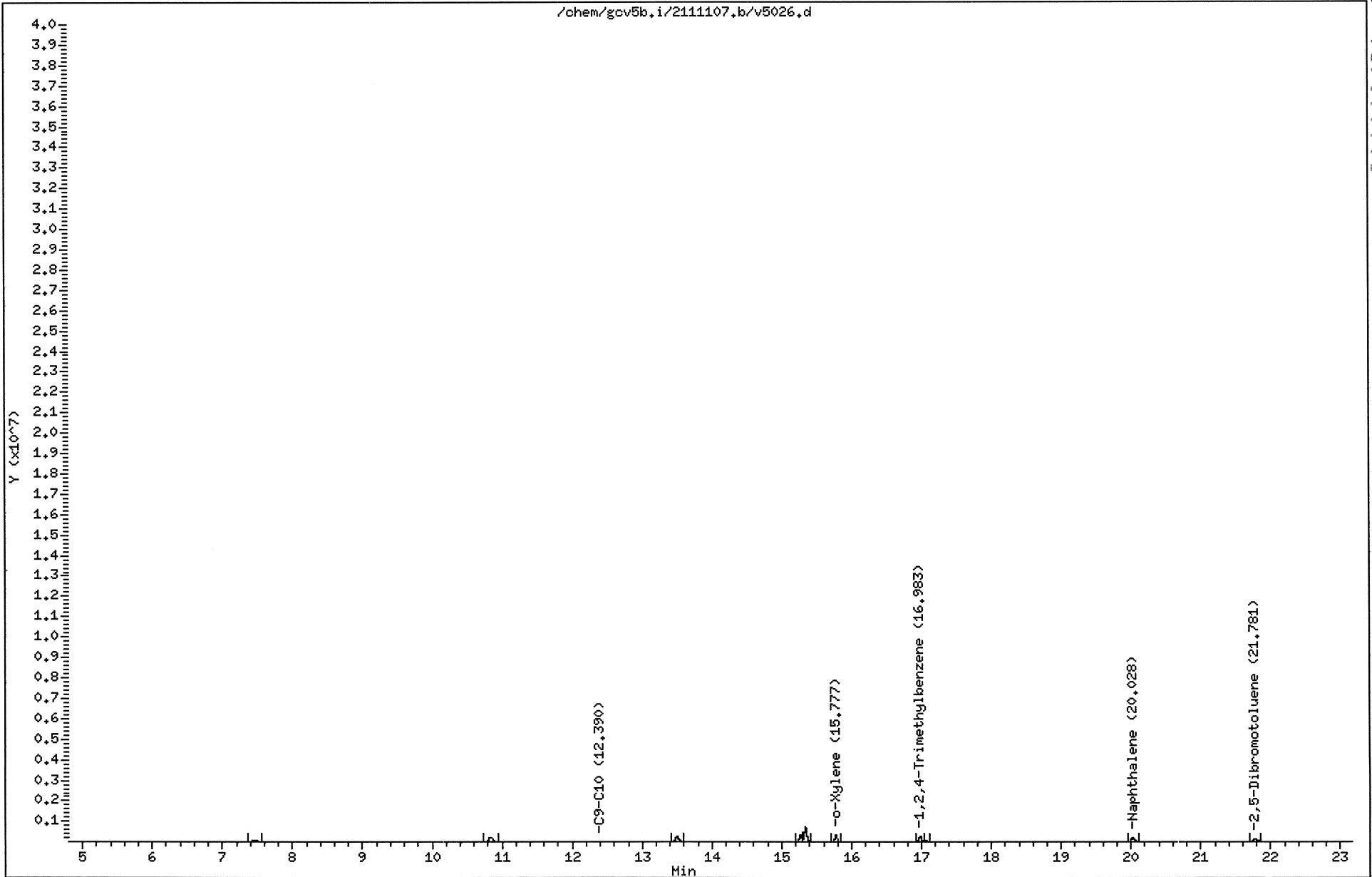
Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
6 o-Xylene	15.777	15.777	0.000	772831	50.0000	57.0
7 1,2,4-Trimethylbenzene	16.983	16.983	0.000	707235	50.0000	58.8
M 9 C9-C10				707235	50.0000	58.8
8 Naphthalene	20.028	20.028	0.000	584197	50.0000	57.4
\$ 10 2,5-Dibromotoluene	21.781	21.781	0.000	402714	50.0000	57.6

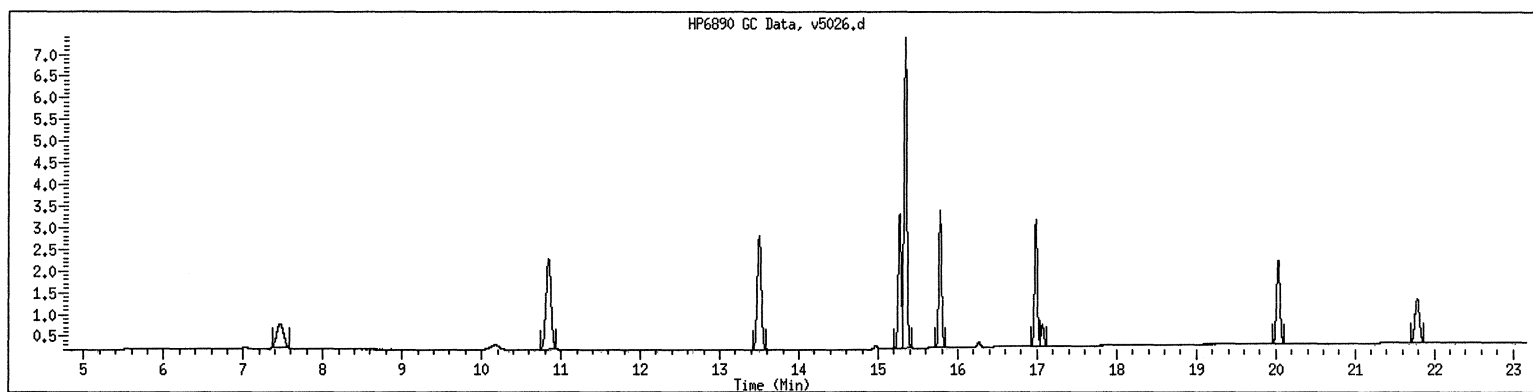
Data File: /chem/gcv5b,i/2111107,b/v5026,d
Date : 08-NOV-2011 01:49
Client ID:
Sample Info: VPH6/12/4
Volume Injected (uL): 1.0
Column phase: DB-624-30

Instrument: gcv5b,i
Operator: JAR
Column diameter: 0,53



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH6/12/4 SampleType : CCALIB_3
Injection Date: 11/08/2011 01:49 Instrument : gcv5b.i
Operator : JAR
Sample Info : VPH6/12/4
Misc Info :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 04-NOV-2011 20:57
 End Cal Date : 05-NOV-2011 01:52
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : Falcon
 Method file : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
 Cal Date : 18-Nov-2011 14:24 bmr
 Curve Type : Average

Calibration File Names:

Level 1: /var/chem/gcv5a.i/2111104p.b/v5003.d
 Level 2: /var/chem/gcv5a.i/2111104p.b/v5005.d
 Level 3: /var/chem/gcv5a.i/2111104p.b/v5007.d
 Level 4: /var/chem/gcv5a.i/2111104p.b/v5009.d
 Level 5: /var/chem/gcv5a.i/2111104p.b/v5011.d
 Level 6: /var/chem/gcv5a.i/2111104p.b/v5001.d

Compound	10.000 Level 1	20.000 Level 2	50.000 Level 3	80.000 Level 4	100.000 Level 5	5.000 Level 6	RRF	% RSD
1 n-Pentane	10671	10211	8851	7571	6259	10437	9000	19.814
M 2 C5-C8	10727	11023	9557	8858	7420	11346	9822	15.343
3 2-Methyl Pentane	10850	12110	10178	9578	7894	12016	10438	15.288
4 MTBE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 5 C9-C12	5516	5527	5414	6329	6009	3831	5437	15.859
6 Isooctane	10661	10749	9640	9426	8105	11583	10027	12.254
7 Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
8 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 n-Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
10 Ethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 m,p-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
12 o-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 n-Decane	5176	5085	5107	6409	6110	5443	5555	10.232
14 1,2,4-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 n-Butylcyclohexane	5856	5968	5721	6249	5908	6049	5958	3.021
16 Naphthalene	9352	9011	8945	8433	8525	+++++	8853	4.247
\$ 17 2,5-Dibromotoluene	3190	3009	3100	2787	2825	3028	2990	5.238

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111104p.b/v5001.d
 Lab Smp Id: VPH05/6/12/4
 Inj Date : 04-NOV-2011 20:57
 Operator : JAR Inst ID: gcv5a.i
 Smp Info : VPH05/6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
 Meth Date : 07-Nov-2011 10:29 jar Quant Type: ESTD
 Cal Date : 04-NOV-2011 20:57 Cal File: v5001.d
 Als bottle: 1 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: aliphatic1+surr.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
M 2 C5-C8				170184	15.0000	16.3
1 n-Pentane	5.268	5.268	0.000	52185	5.00000	5.4 (M1)
3 2-Methyl Pentane	6.485	6.485	0.000	60082	5.00000	5.4 (M1)
6 Isooctane	9.561	9.561	0.000	57917	5.00000	5.4 (M1)
13 n-Decane	15.962	15.962	0.000	27213	5.00000	5.2 (M1)
15 n-Butylcyclohexane	16.745	16.745	0.000	30246	5.00000	5.1 (M1)
16 Naphthalene	19.622	19.622	0.000	47160	5.00000	5.3 (M1)
M 5 C9-C12				57459	15.0000	10.3
\$ 17 2,5-Dibromotoluene	21.297	21.297	0.000	151381	50.0000	49.4 (M1)

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Date : 04-NOV-2011 20:57

Client ID:

Instrument: gcv5a.i

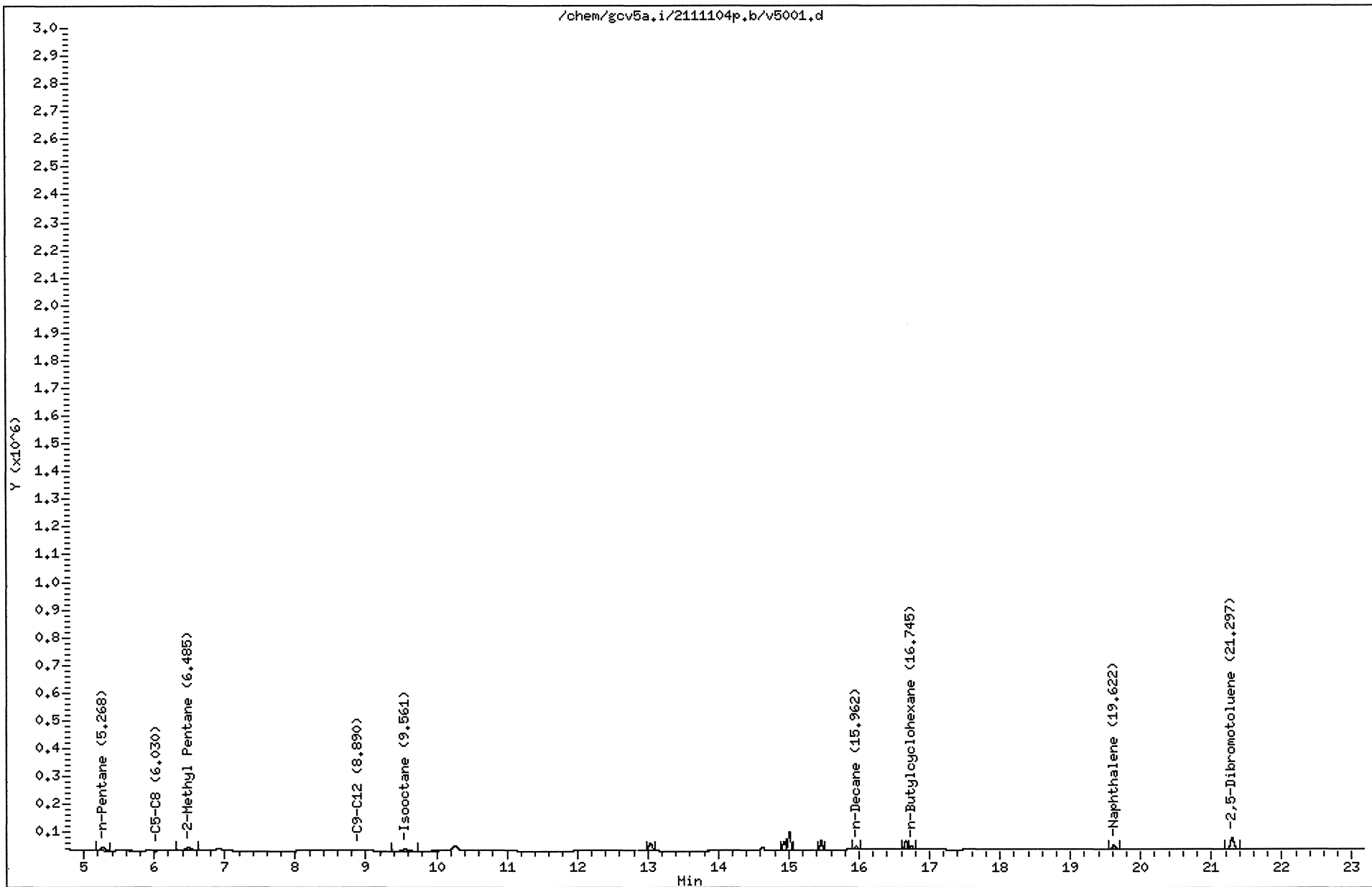
Sample Info: VPH05/6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

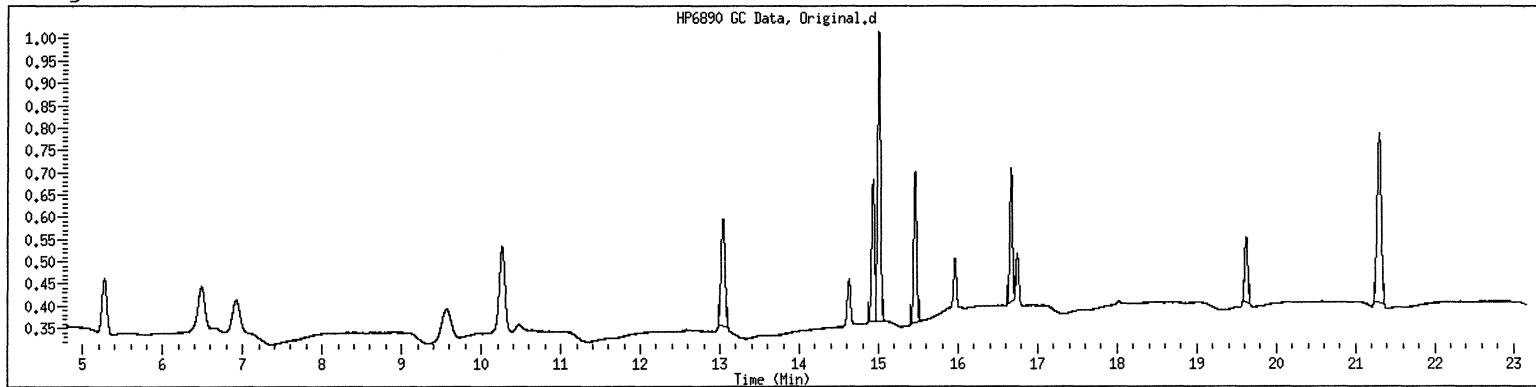
Column diameter: 0.53



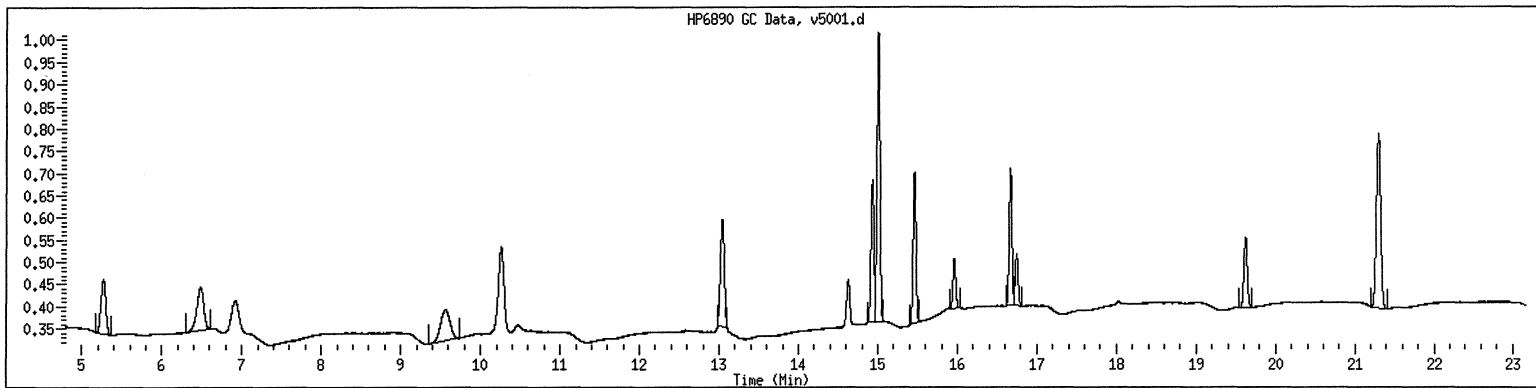
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH05/6/12/4 SampleType : CALIB_6
Injection Date: 11/04/2011 20:57 Instrument : gcv5a.i
Operator : JAR
Sample Info : VPH05/6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111104p.b/v5003.d
 Lab Smp Id: VPH10/6/12/4
 Inj Date : 04-NOV-2011 21:56
 Operator : JAR
 Smp Info : VPH10/6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
 Meth Date : 07-Nov-2011 10:29 jar
 Cal Date : 04-NOV-2011 21:56
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5a.i
 Quant Type: ESTD
 Cal File: v5003.d
 Calibration Sample, Level: 1
 Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
M 2 C5-C8				321816	30.0000	30.6
1 n-Pentane	5.269	5.269	0.000	106713	10.0000	10.7 (M1)
3 2-Methyl Pentane	6.483	6.483	0.000	108495	10.0000	9.8 (M1)
6 Isooctane	9.565	9.565	0.000	106608	10.0000	10.0 (M1)
13 n-Decane	15.960	15.960	0.000	51759	10.0000	9.9 (M1)
15 n-Butylcyclohexane	16.743	16.743	0.000	58555	10.0000	10 (M1)
16 Naphthalene	19.618	19.618	0.000	93516	10.0000	10.2 (M1)
M 5 C9-C12				110314	20.0000	19.8
\$ 17 2,5-Dibromotoluene	21.292	21.292	0.000	159522	50.0000	51.4 (M1)

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Date : 04-NOV-2011 21:56

Client ID:

Instrument: gcv5a.i

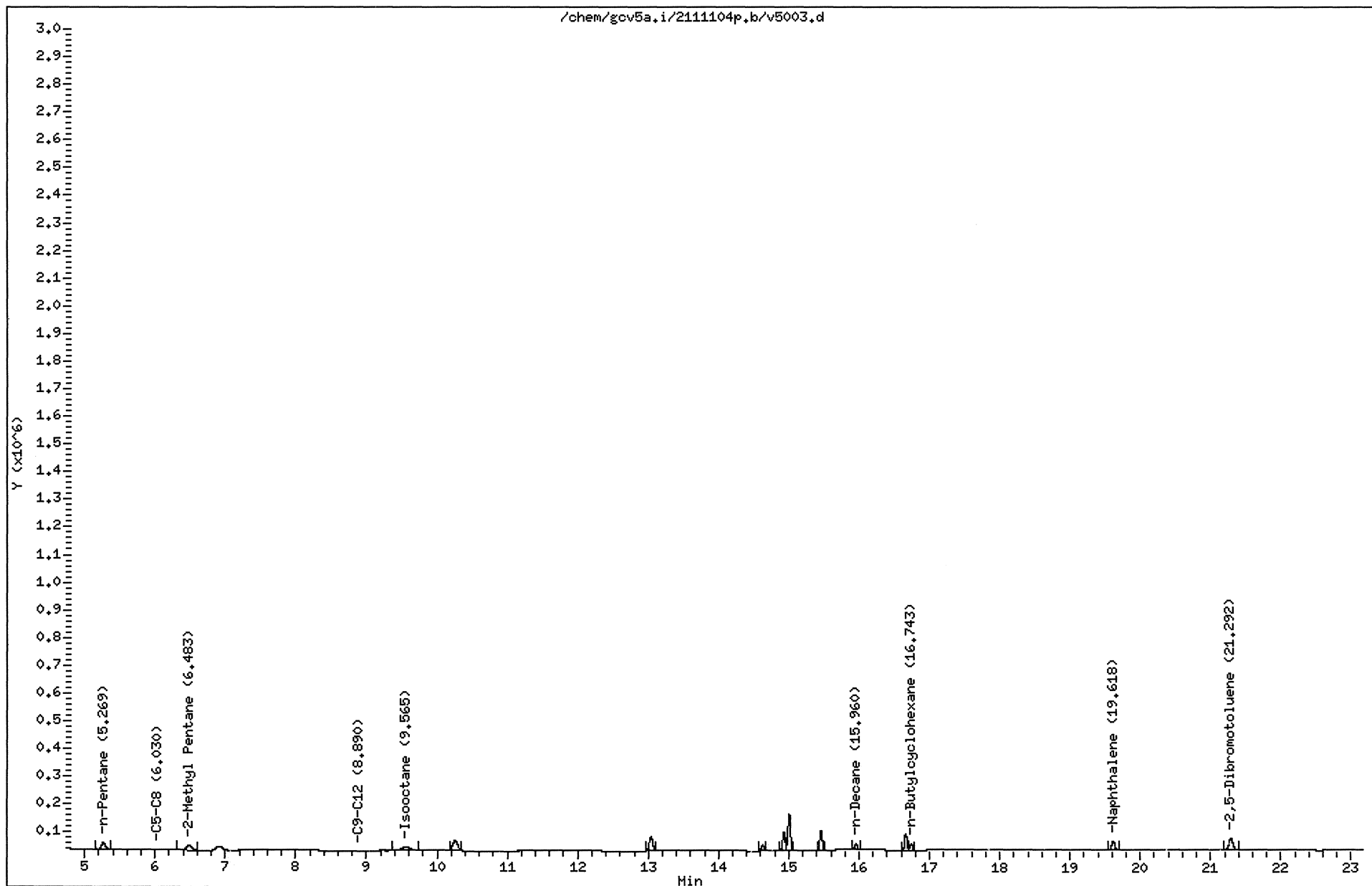
Sample Info: VPH10/6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

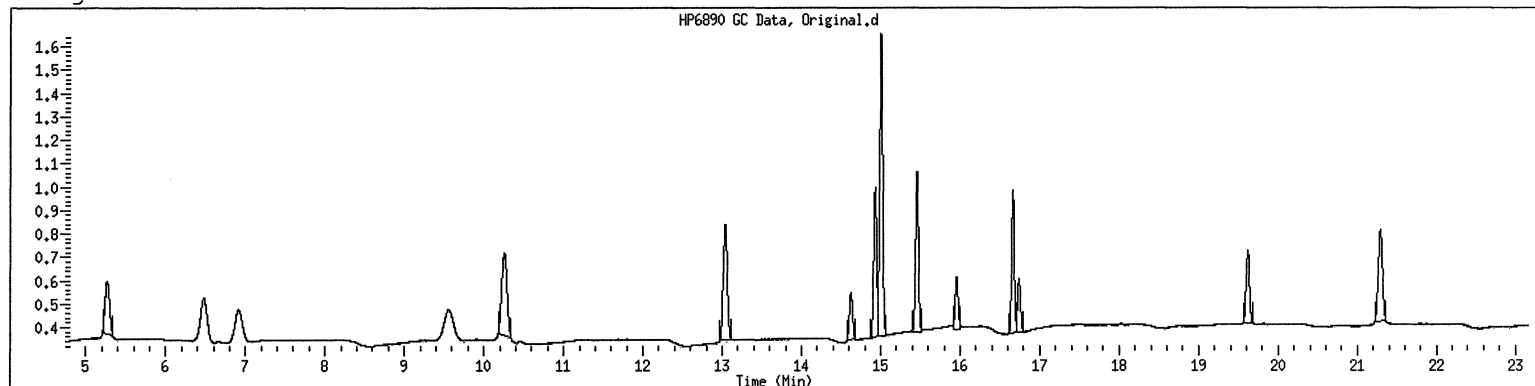


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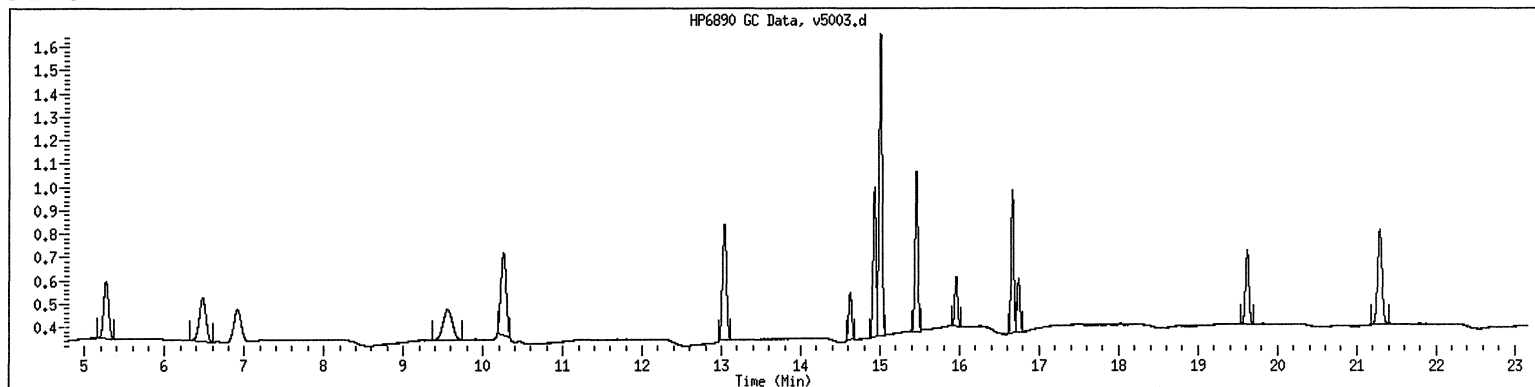
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH10/6/12/4 SampleType : CALIB_1
Injection Date: 11/04/2011 21:56 Instrument : gcv5a.i
Operator : JAR
Sample Info : VPH10/6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111104p.b/v5005.d
 Lab Smp Id: VPH20/6/12/4
 Inj Date : 04-NOV-2011 22:55
 Operator : JAR
 Smp Info : VPH20/6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
 Meth Date : 07-Nov-2011 10:29 jar
 Cal Date : 04-NOV-2011 22:55
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5a.i
 Quant Type: ESTD
 Cal File: v5005.d
 Calibration Sample, Level: 2
 Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
M 2 C5-C8				661397	60.0000	62.0
1 n-Pentane	5.267	5.267	0.000	204224	20.0000	20.3 (M1)
3 2-Methyl Pentane	6.482	6.482	0.000	242197	20.0000	21.4 (M1)
6 Isooctane	9.563	9.563	0.000	214976	20.0000	20.2 (M1)
13 n-Decane	15.959	15.959	0.000	101700	20.0000	19.5 (M1)
15 n-Butylcyclohexane	16.742	16.742	0.000	119364	20.0000	20.2 (M1)
16 Naphthalene	19.617	19.617	0.000	180224	20.0000	19.8 (M1)
M 5 C9-C12				221064	40.0000	39.8
\$ 17 2,5-Dibromotoluene	21.291	21.291	0.000	150438	50.0000	48.8 (M1)

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Date : 04-NOV-2011 22:55

Client ID:

Instrument: gcv5a.i

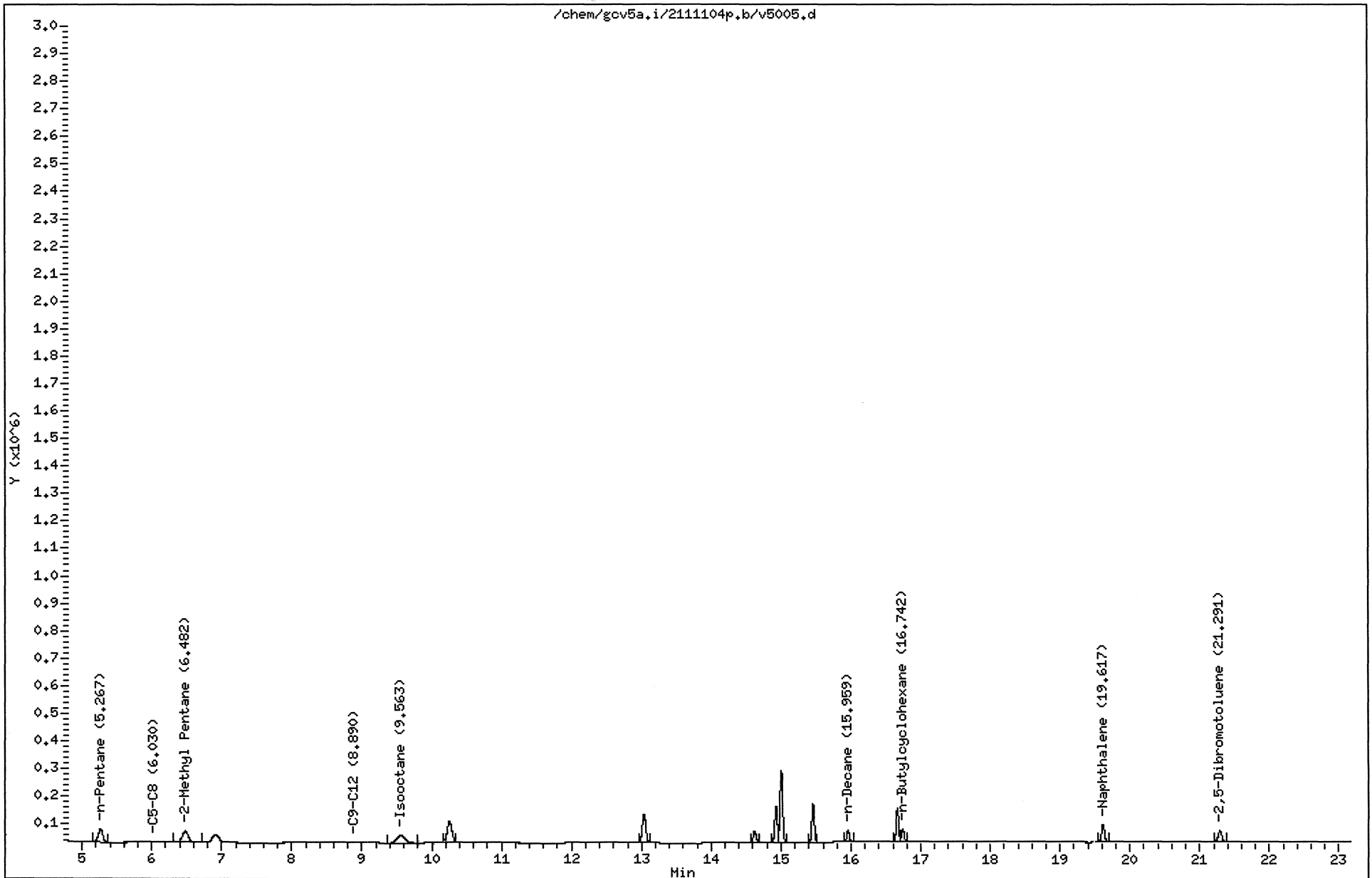
Sample Info: VPH20/6/12/4

Volume Injected (UL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

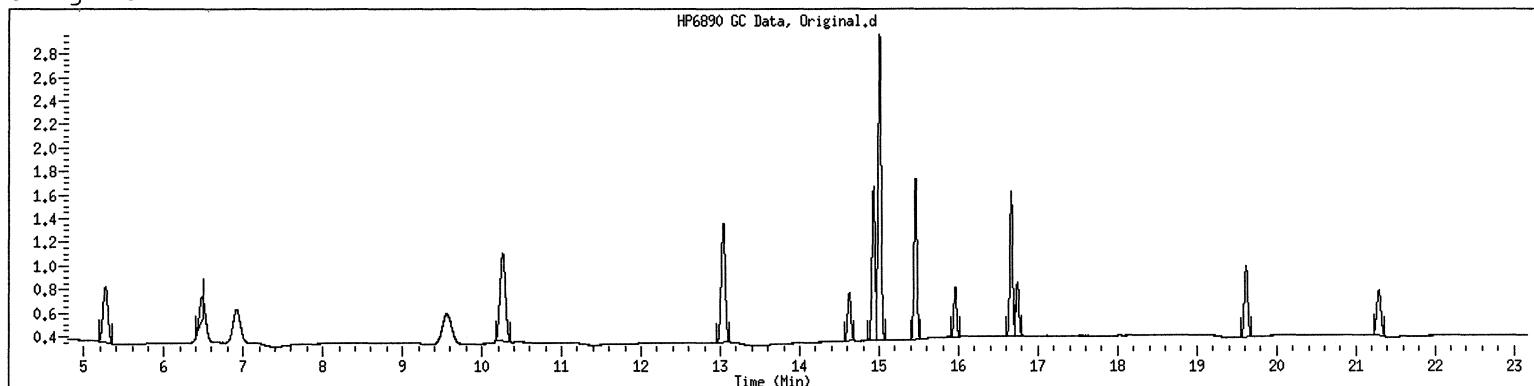


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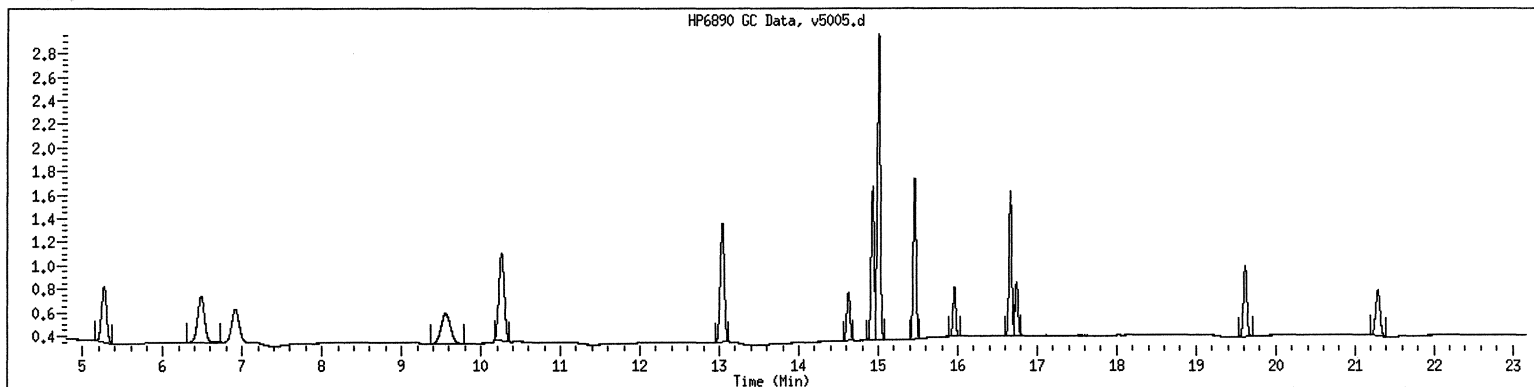
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH20/6/12/4 SampleType : CALIB_2
Injection Date: 11/04/2011 22:55 Instrument : gcv5a.i
Operator : JAR
Sample Info : VPH20/6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111104p.b/v5007.d
Lab Smp Id: VPH50/6/12/4
Inj Date : 04-NOV-2011 23:54
Operator : JAR Inst ID: gcv5a.i
Smp Info : VPH50/6/12/4
Misc Info :
Comment :
Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
Meth Date : 07-Nov-2011 10:29 jar Quant Type: ESTD
Cal Date : 04-NOV-2011 23:54 Cal File: v5007.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: aliphatic1+surr.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

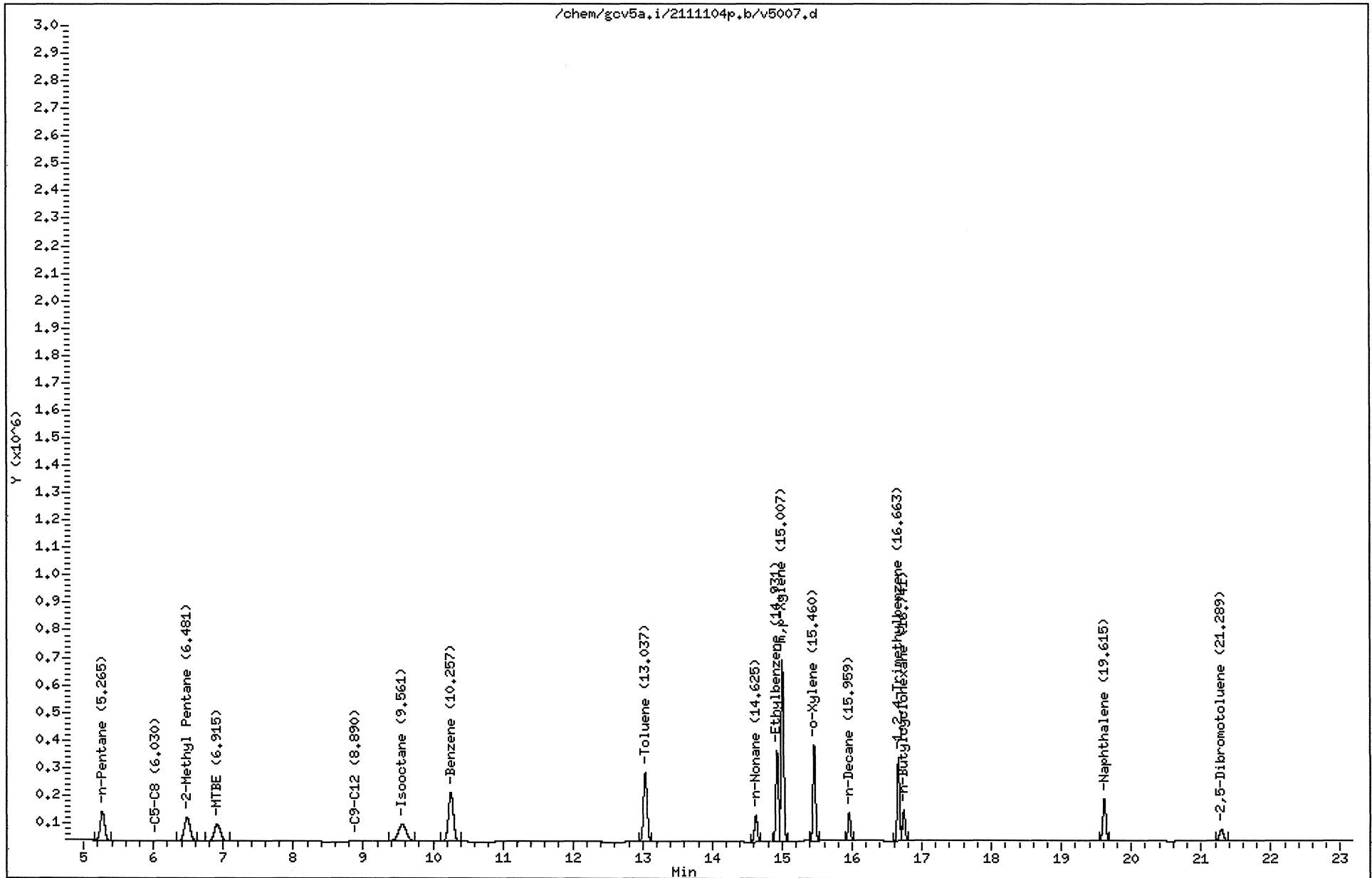
Compounds					AMOUNTS		
	RT	EXP RT	DLT RT	RT	RESPONSE	CAL-AMT (ug/L)	ON-COL (ug/L)
M 2 C5-C8					1433487	150.000	150
1 n-Pentane	5.265	5.265	0.000		442559	50.0000	50.0 (M1)
3 2-Methyl Pentane	6.481	6.481	0.000		508906	50.0000	50.0 (M1)
6 Isooctane	9.561	9.561	0.000		482022	50.0000	50.0 (M1)
13 n-Decane	15.959	15.959	0.000		255356	50.0000	50.0
15 n-Butylcyclohexane	16.741	16.741	0.000		286054	50.0000	50.0 (M1)
16 Naphthalene	19.615	19.615	0.000		447259	50.0000	50.0
M 5 C9-C12					541410	100.000	100
§ 17 2,5-Dibromotoluene	21.289	21.289	0.000		154983	50.0000	50.0 (M1)

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Data File: /chem/gcv5a.i/2111104p.b/v5007.d
Date : 04-NOV-2011 23:54
Client ID:
Sample Info: VPH50/6/12/4
Volume Injected (uL): 1.0
Column phase: DB-624-30

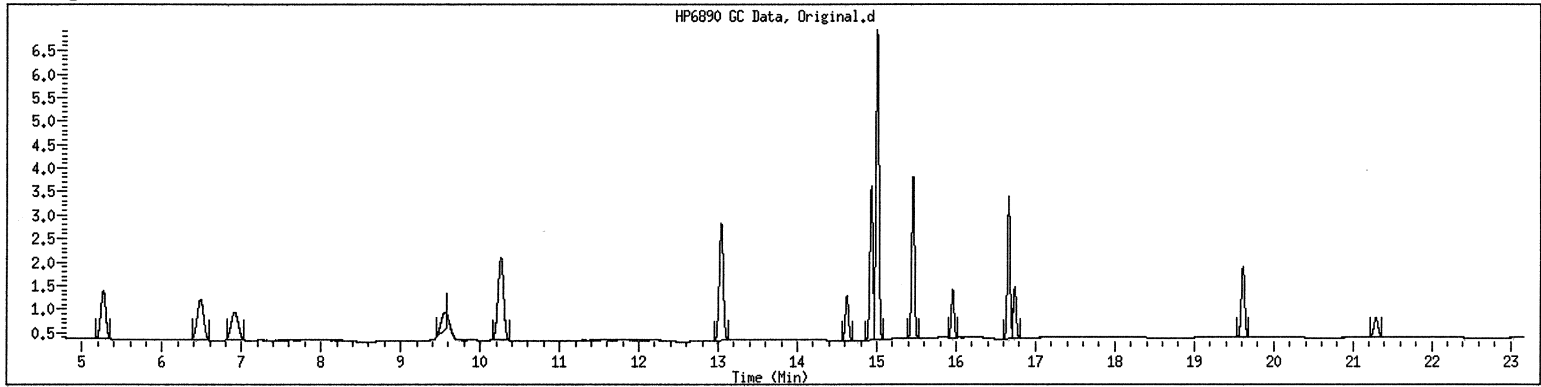
Instrument: gcv5a.i
Operator: JAR
Column diameter: 0.53



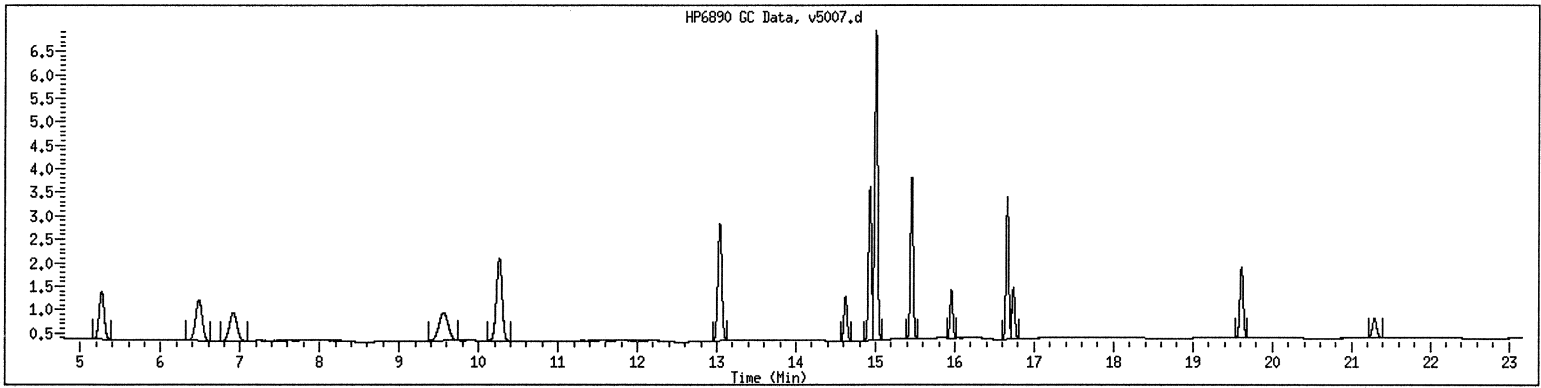
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH50/6/12/4 SampleType : CALIB_3
Injection Date: 11/04/2011 23:54 Instrument : gcv5a.i
Operator : JAR
Sample Info : VPH50/6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111104p.b/v5009.d
Lab Smp Id: VPH80/6/12/4
Inj Date : 05-NOV-2011 00:53
Operator : JAR
Smp Info : VPH80/6/12/4
Misc Info :
Comment :
Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
Meth Date : 07-Nov-2011 10:29 jar
Cal Date : 05-NOV-2011 00:53
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Processing Host: org.gcal.com
Inst ID: gcv5a.i
Quant Type: ESTD
Cal File: v5009.d
Calibration Sample, Level: 4
Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

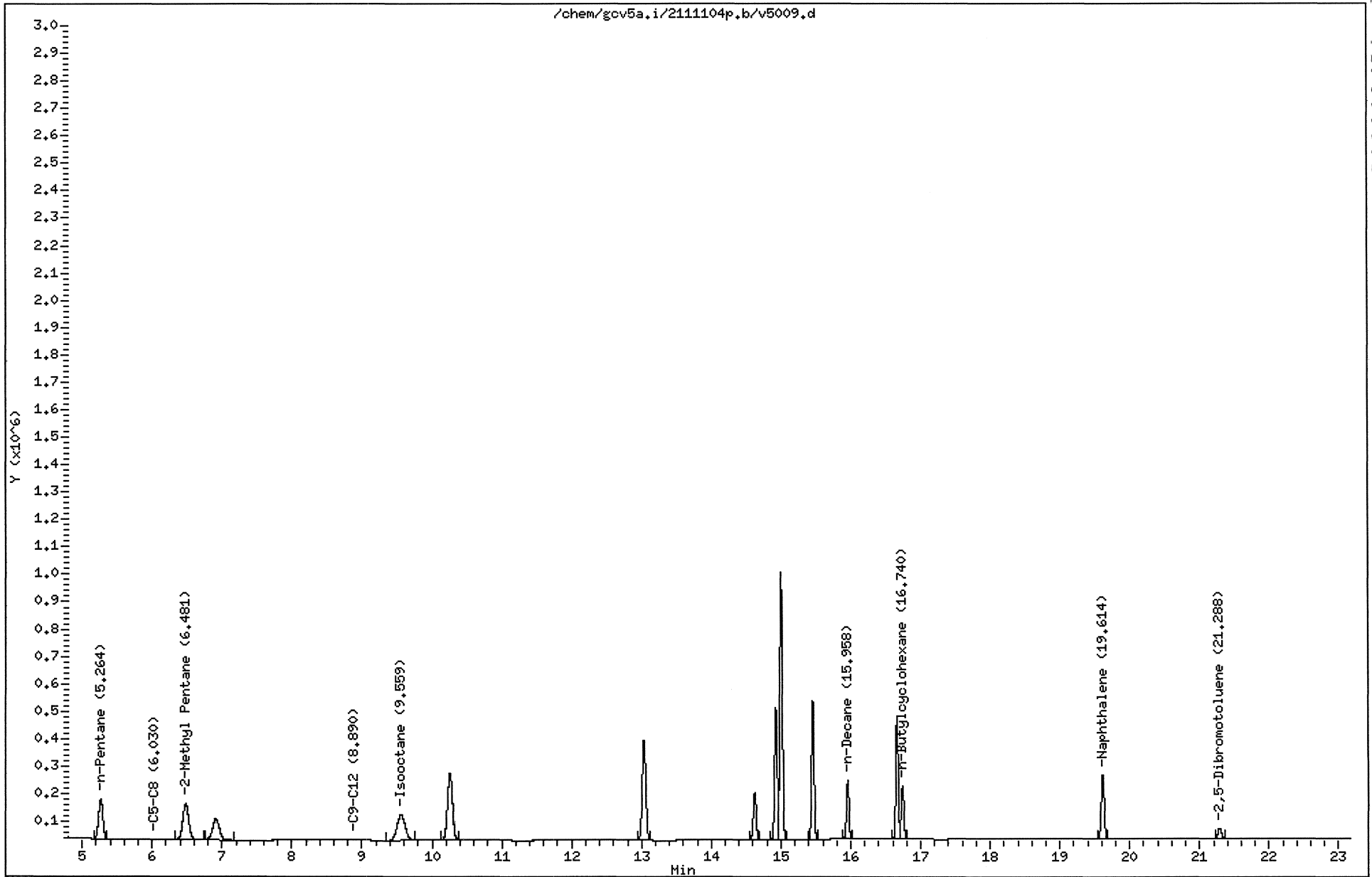
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
M 2 C5-C8				2126034	240.000	206
1 n-Pentane	5.264	5.264	0.000	605714	80.0000	63.4
3 2-Methyl Pentane	6.481	6.481	0.000	766261	80.0000	70.0 (M1)
6 Isooctane	9.559	9.559	0.000	754059	80.0000	72.4 (M1)
13 n-Decane	15.958	15.958	0.000	512745	80.0000	94.2
15 n-Butylcyclohexane	16.740	16.740	0.000	499891	80.0000	83.8 (M1)
16 Naphthalene	19.614	19.614	0.000	674677	80.0000	75.5
M 5 C9-C12				1012636	160.000	178
\$ 17 2,5-Dibromotoluene	21.288	21.288	0.000	139338	50.0000	46.1

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Data File: /chem/gcv5a.i/2111104p.b/v5009.d
Date : 05-NOV-2011 00:53
Client ID:
Sample Info: VPH80/6/12/4
Volume Injected (uL): 1.0
Column phase: DB-624-30

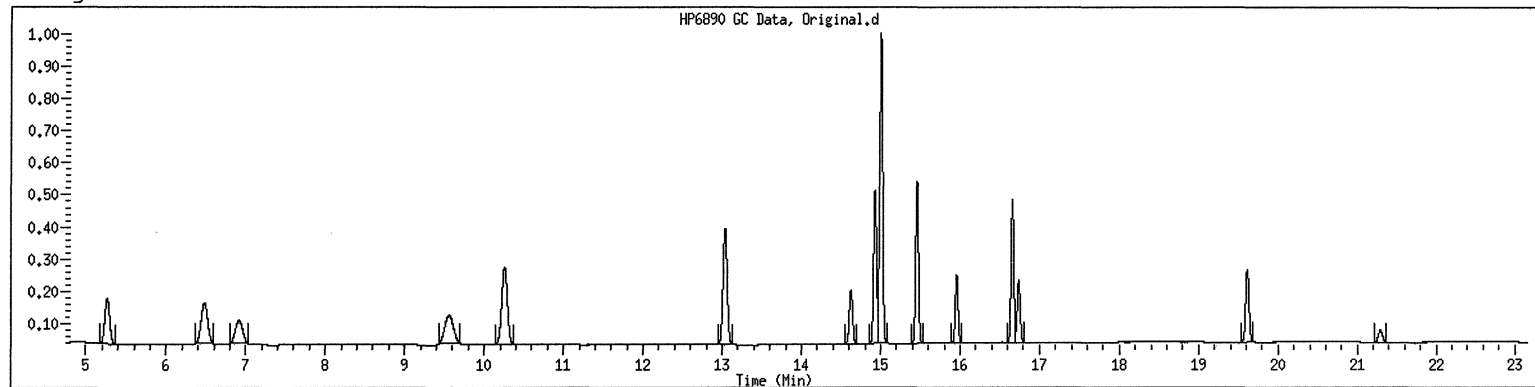
Instrument: gcv5a.i
Operator: JAR
Column diameter: 0.53



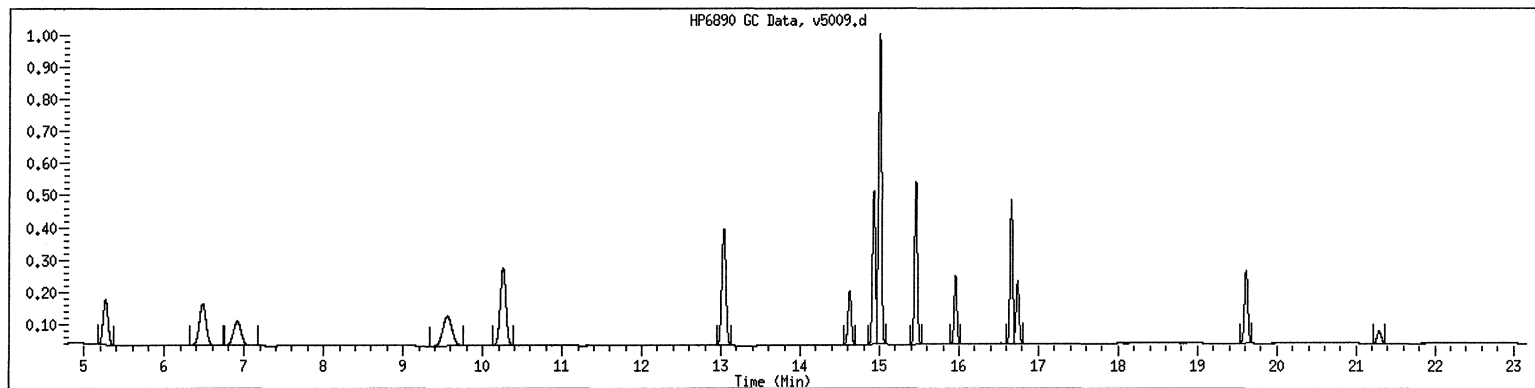
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH80/6/12/4 SampleType : CALIB_4
Injection Date: 11/05/2011 00:53 Instrument : gcv5a.i
Operator : JAR
Sample Info : VPH80/6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111104p.b/v5011.d
 Lab Smp Id: VPH100/6/12/4
 Inj Date : 05-NOV-2011 01:52
 Operator : JAR
 Smp Info : VPH100/6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
 Meth Date : 07-Nov-2011 10:29 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5a.i
 Quant Type: ESTD
 Cal File: v5011.d
 Calibration Sample, Level: 5
 Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

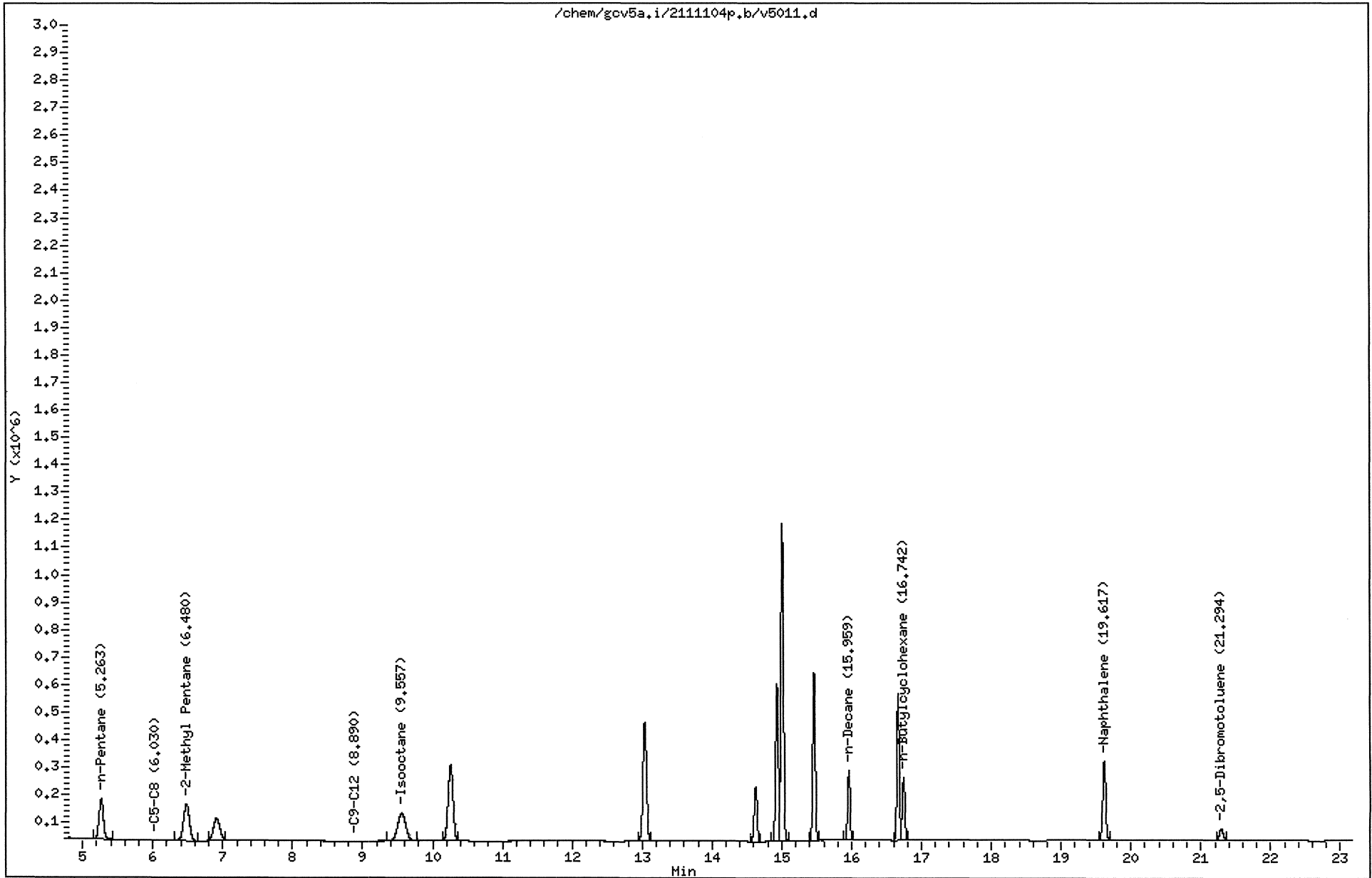
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
M 2 C5-C8				2225866	300.000	226
1 n-Pentane	5.263	5.263	0.000	625897	100.000	69.5 (M1)
3 2-Methyl Pentane	6.480	6.480	0.000	789446	100.000	75.6 (M1)
6 Isooctane	9.557	9.557	0.000	810523	100.000	80.8 (M1)
13 n-Decane	15.959	15.959	0.000	610961	100.000	110 (A)
15 n-Butylcyclohexane	16.742	16.742	0.000	590825	100.000	99.2 (M1)
16 Naphthalene	19.617	19.617	0.000	852519	100.000	96.3
M 5 C9-C12				1201786	200.000	209
§ 17 2,5-Dibromotoluene	21.294	21.294	0.000	141234	50.0000	47.2

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M1- Compound response manually integrated because Target system did not integrate.

Data File: /chem/gcv5a.i/2111104p.b/v5011.d
Date : 05-NOV-2011 01:52
Client ID:
Sample Info: VPH100/6/12/4
Volume Injected (uL): 1.0
Column phase: DB-624-30

Instrument: gcv5a.i
Operator: JAR
Column diameter: 0.53

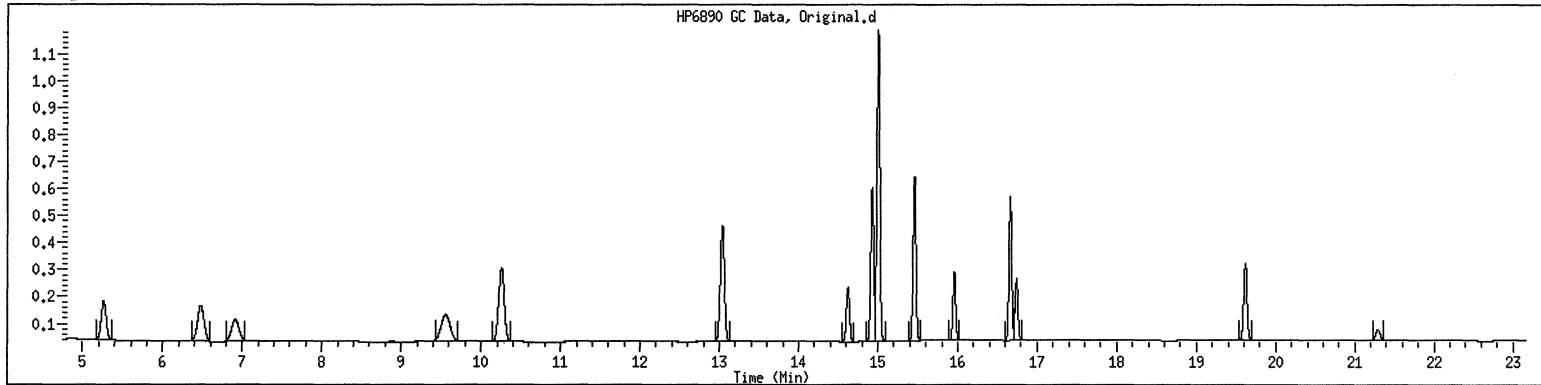


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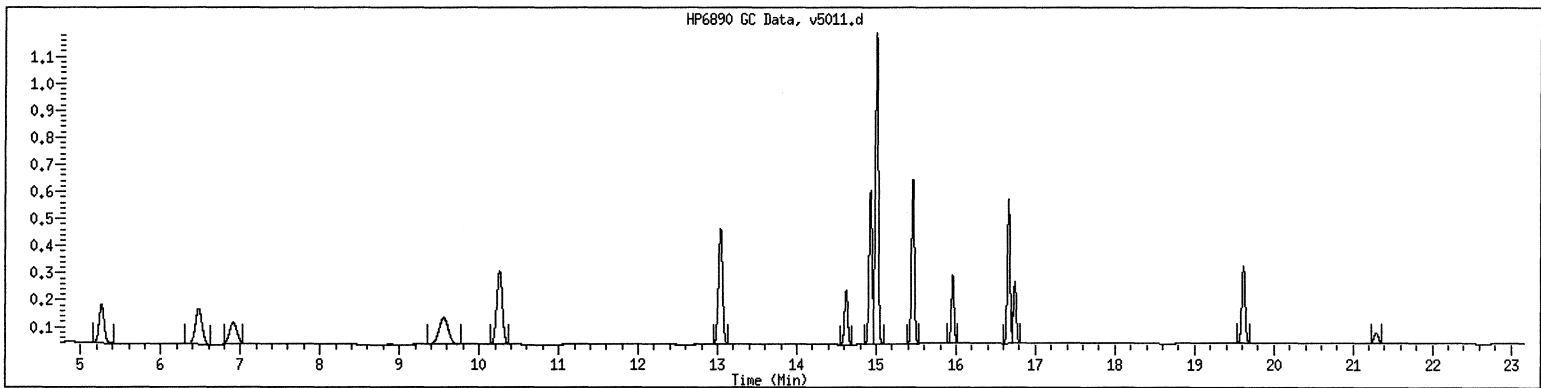
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH100/6/12/4 SampleType : CALIB_5
Injection Date: 11/05/2011 01:52 Instrument : gcv5a.i
Operator : JAR
Sample Info : VPH100/6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



GCAL, Inc.

RECOVERY REPORT

Client Name: Client SDG: 2111104p
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: ICV6/12/5
 Level: LOW Operator: JAR
 Data Type: GC MULTI COMP SampleType: LCS
 SpikeList File: aliphatic1.spk Quant Type: ESTD
 Sublist File: aliphatic1+surr.sub
 Method File: /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
 Misc Info:

SPIKE COMPOUND		AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
	1 n-Pentane	50.0	46.6	93.10	70-130
M	2 C5-C8	150	139	92.95	70-130
	3 2-Methyl Pentane	50.0	48.5	96.95	70-130
M	5 C9-C12	100	92.4	92.37	70-130
	6 Isooctane	50.0	44.4	88.79	70-130
	13 n-Decane	50.0	44.9	89.88	70-130
	15 n-Butylcyclohexane	50.0	47.4	94.86	70-130
	16 Naphthalene	50.0	54.8	109.51	70-130

SURROGATE COMPOUND		AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$	17 2,5-Dibromotoluene	50.0	49.5	99.05	70-130

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111104p.b/v5013.d
 Lab Smp Id: ICV6/12/5
 Inj Date : 05-NOV-2011 02:51
 Operator : JAR
 Smp Info : ICV6/12/5
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
 Meth Date : 07-Nov-2011 10:22 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5a.i
 Quant Type: ESTD
 Cal File: v5011.d
 QC Sample: LCS
 Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

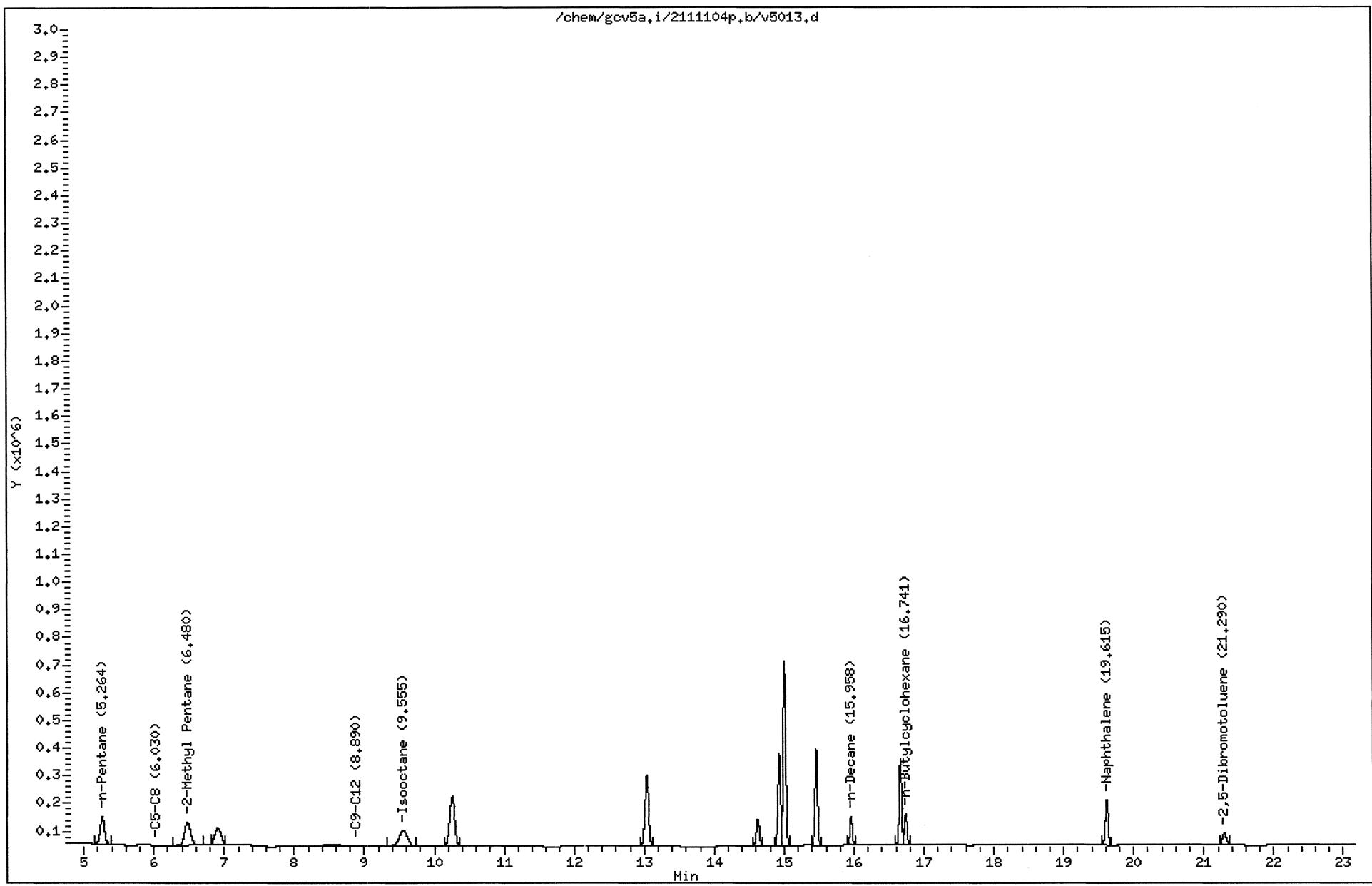
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
M 2 C5-C8				1370151	139.426	139
1 n-Pentane	5.264	5.263	0.001	418980	46.5524	46.6 (M1)
3 2-Methyl Pentane	6.480	6.480	0.000	505982	48.4762	48.5 (M1)
6 Isooctane	9.555	9.557	-0.002	445188	44.3972	44.4 (M1)
13 n-Decane	15.958	15.959	-0.001	249629	44.9383	44.9
15 n-Butylcyclohexane	16.741	16.742	-0.001	282608	47.4296	47.4
16 Naphthalene	19.615	19.617	-0.002	484765	54.7551	54.8
M 5 C9-C12				532237	92.3679	92.4
\$ 17 2,5-Dibromotoluene	21.290	21.294	-0.004	148060	49.5241	49.5

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Data File: /chem/gcv5a.i/2111104p.b/v5013.d
Date : 05-NOV-2011 02:51
Client ID:
Sample Info: ICV6/12/5
Volume Injected (uL): 1.0
Column phase: DB-624-30

Instrument: gcv5a.i
Operator: JAR
Column diameter: 0.53

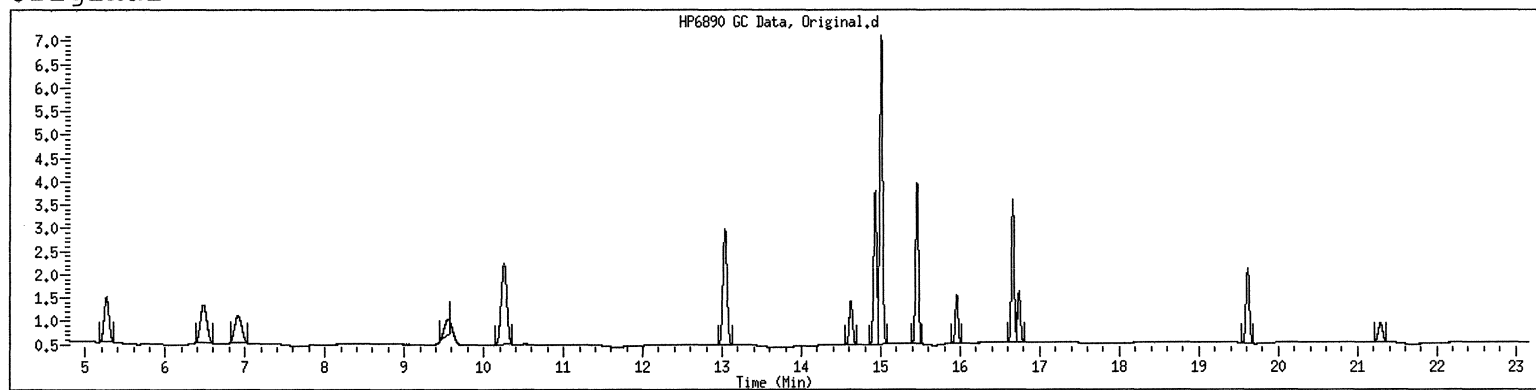


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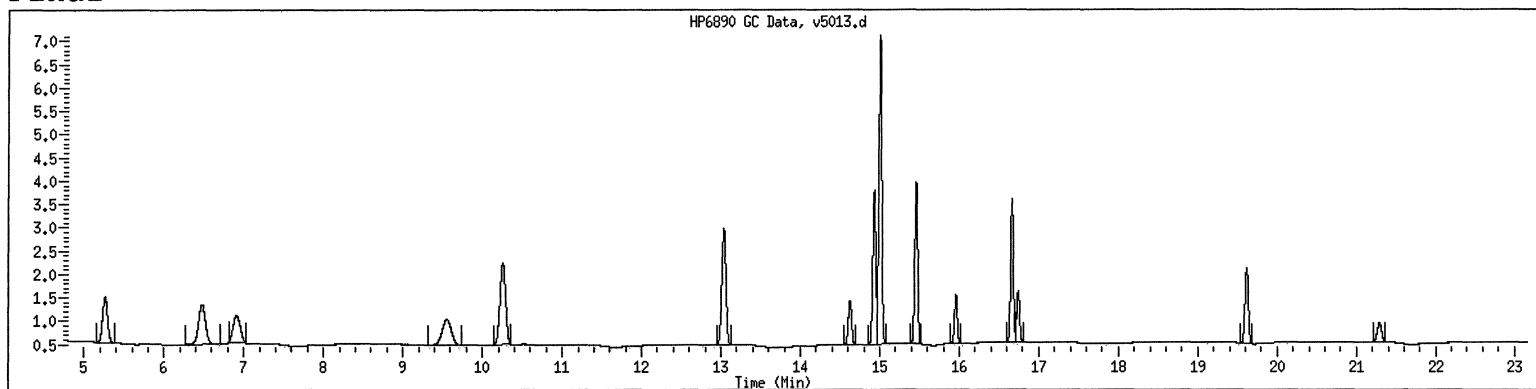
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: ICV6/12/5	SampleType	: LCS
Injection Date:	11/05/2011 02:51	Instrument	: gcv5a.i
Operator	: JAR		
Sample Info	: ICV6/12/5		
Misc Info	:		
Method	: /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: Falcon	Compound Sublist:	aliphatic1+surr

Original



Final



GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcv5a.i Injection Date: 07-NOV-2011 11:22
Lab File ID: v5001.d Init. Cal. Date(s): 04-NOV-2011 05-NOV-2011
Analysis Type: WATER Init. Cal. Times: 20:57 01:52
Lab Sample ID: VPH6/12/4 Quant Type: ESTD
Method: /var/chem/gcv5a.i/2111107.b/FIDMVPH.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX RRF	%D / %DRIFT	CURVE TYPE
M 2 C5-C8	9822	10063	0.010	-2.45242	25.00000		Averaged
11 n-Pentane	9000	9099	0.010	-1.09665	25.00000		Averaged
13 2-Methyl Pentane	10438	10571	0.010	-1.27340	25.00000		Averaged
16 Isooctane	10027	10518	0.010	-4.89657	25.00000		Averaged
13 n-Decane	5555	5515	0.010	0.72519	25.00000		Averaged
15 n-Butylcyclohexane	5958	6214	0.010	-4.28469	25.00000		Averaged
16 Naphthalene	8853	9172	0.010	-3.60219	25.00000		Averaged
M 5 C9-C12	5437	5864	0.010	-7.84785	25.00000		Averaged
S 17 2,5-Dibromotoluene	2990	2988	0.010	0.04259	30.00000		Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 2.91351
Maximun Average %D/Drift = 25.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5001.d
 Lab Smp Id: VPH6/12/4
 Inj Date : 07-NOV-2011 11:22
 Operator : JAR
 Smp Info : VPH6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
 Meth Date : 08-Nov-2011 13:07 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5a.i
 Quant Type: ESTD
 Cal File: v5011.d
 Continuing Calibration Sample
 Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
M 2 C5-C8				1509398	150.000	154
1 n-Pentane	5.269	5.269	0.000	454944	50.0000	50.5
3 2-Methyl Pentane	6.485	6.485	0.000	528534	50.0000	50.6
6 Isooctane	9.563	9.563	0.000	525920	50.0000	52.4 (M1)
13 n-Decane	15.961	15.961	0.000	275732	50.0000	49.6
15 n-Butylcyclohexane	16.743	16.743	0.000	310689	50.0000	52.1
16 Naphthalene	19.618	19.618	0.000	458612	50.0000	51.8
M 5 C9-C12				586421	100.000	102
\$ 17 2,5-Dibromotoluene	21.295	21.295	0.000	149419	50.0000	50.0

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Date : 07-NOV-2011 11:22

Client ID:

Instrument: gcv5a.i

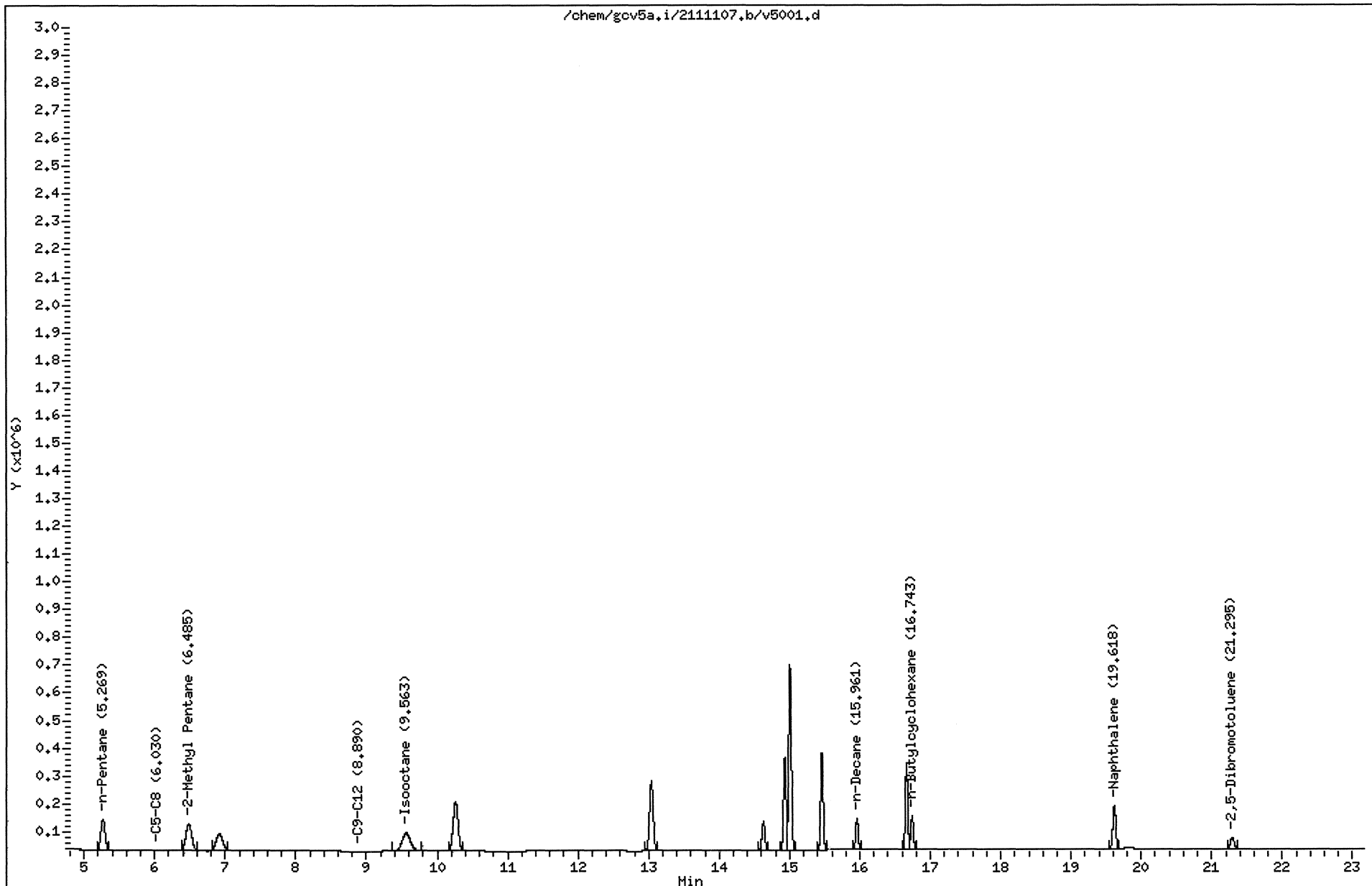
Sample Info: VPH6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

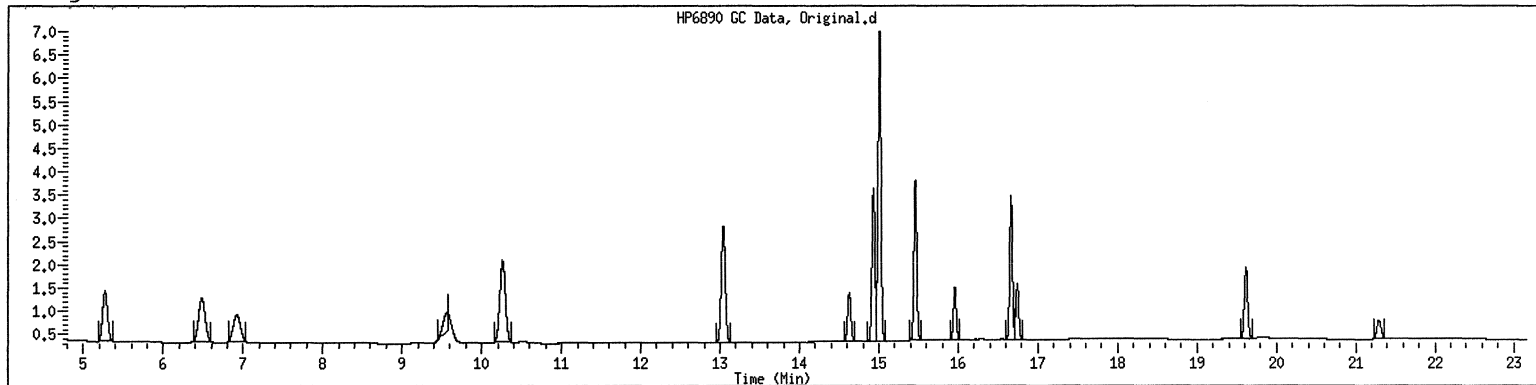
Column diameter: 0.53



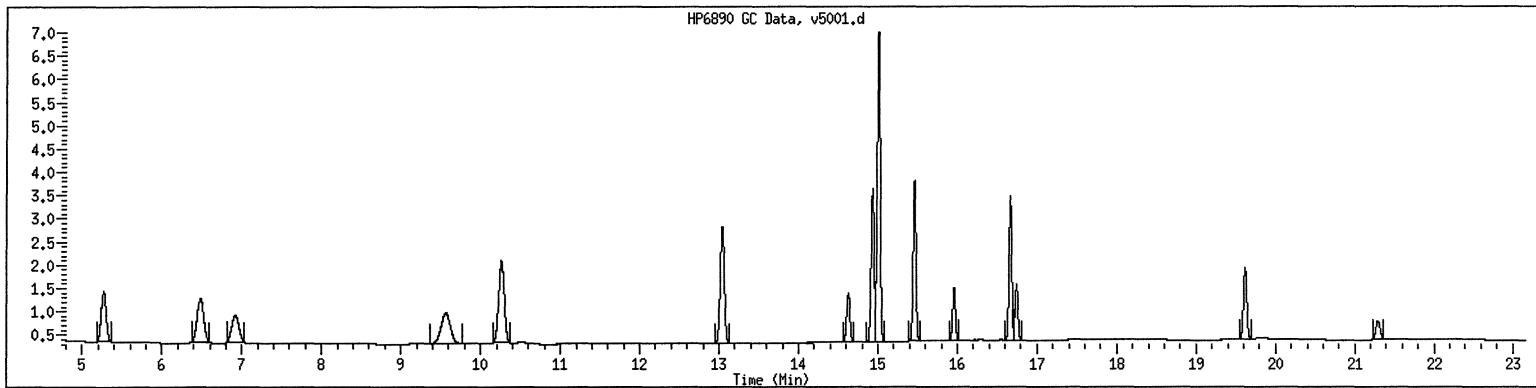
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: VPH6/12/4	SampleType	: CCALIB_3
Injection Date:	11/07/2011 11:22	Instrument	: gcv5a.i
Operator	: JAR		
Sample Info	: VPH6/12/4		
Misc Info	:		
Method	: /var/chem/gcv5a.i/2111107.b/FIDMVPH.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: Falcon	Compound Sublist:	aliphatic1+surr

Original



Final



GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcv5a.i Injection Date: 07-NOV-2011 16:16
 Lab File ID: v5011.d Init. Cal. Date(s): 04-NOV-2011 05-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 20:57 01:52
 Lab Sample ID: VPH6/12/4 Quant Type: ESTD
 Method: /var/chem/gcv5a.i/2111107.b/FIDMVPH.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M 2 C5-C8	9822	9001	0.010	8.35987	25.00000	Averaged
1 n-Pentane	9000	8133	0.010	9.63580	25.00000	Averaged
3 2-Methyl Pentane	10438	9389	0.010	10.04971	25.00000	Averaged
6 Isooctane	10027	9480	0.010	5.45566	25.00000	Averaged
13 n-Decane	5555	5714	0.010	-2.86154	25.00000	Averaged
15 n-Butylcyclohexane	5958	5735	0.010	3.75193	25.00000	Averaged
16 Naphthalene	8853	8972	0.010	-1.34067	25.00000	Averaged
M 5 C9-C12	5437	5724	0.010	-5.27663	25.00000	Averaged
\$ 17 2,5-Dibromotoluene	2990	2912	0.010	2.61212	30.00000	Averaged

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 5.48266
 Maximun Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5011.d
 Lab Smp Id: VPH6/12/4
 Inj Date : 07-NOV-2011 16:16
 Operator : JAR
 Smp Info : VPH6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
 Meth Date : 07-Nov-2011 17:08 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5a.i
 Quant Type: ESTD
 Cal File: v5011.d
 Continuing Calibration Sample
 Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

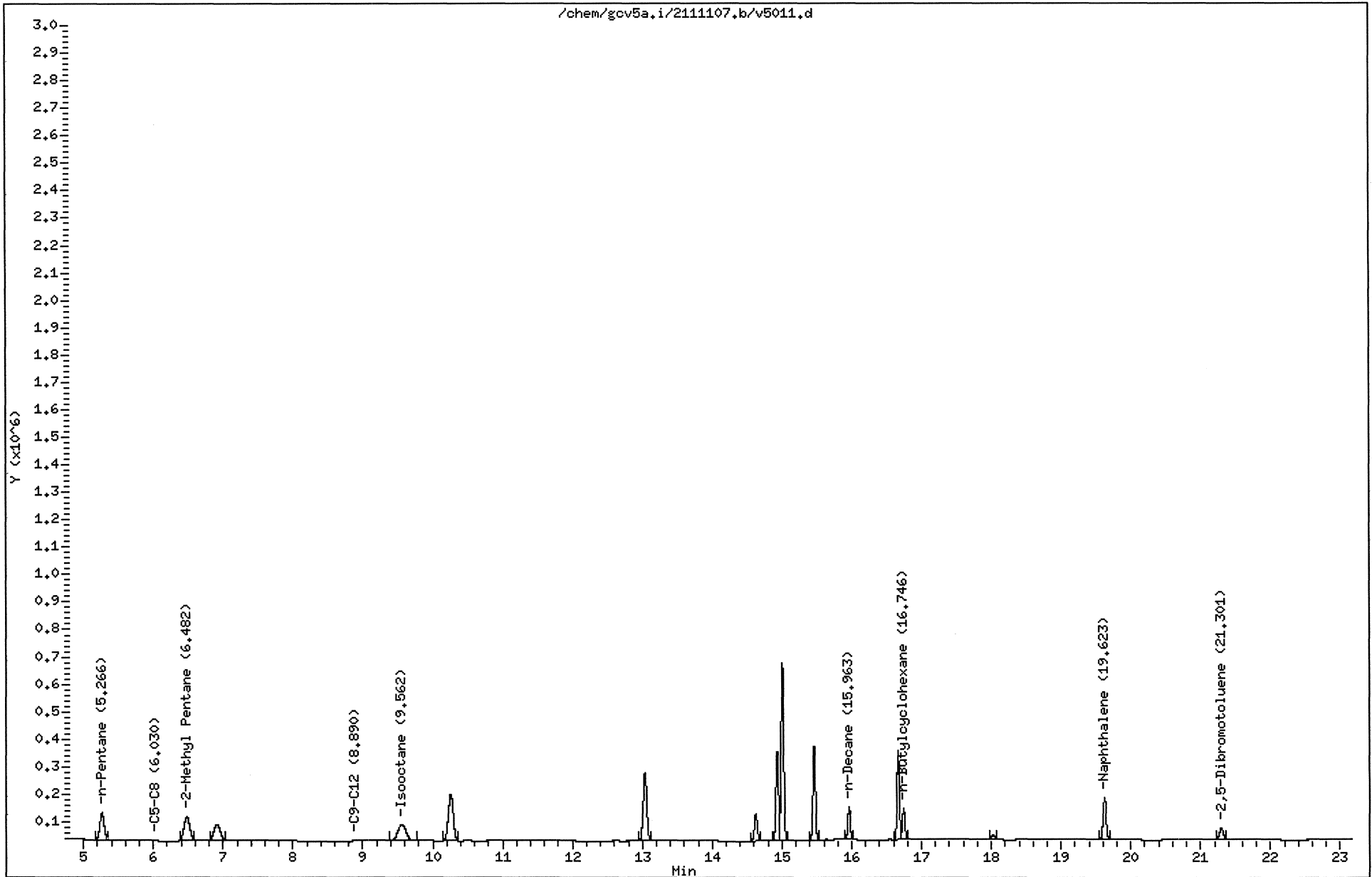
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
M 2 C5-C8				1350104	150.000	137
1 n-Pentane	5.266	5.266	0.000	406647	50.0000	45.2
3 2-Methyl Pentane	6.482	6.482	0.000	469440	50.0000	45.0
6 Isooctane	9.562	9.562	0.000	474017	50.0000	47.3 (M1)
13 n-Decane	15.963	15.963	0.000	285694	50.0000	51.4
15 n-Butylcyclohexane	16.746	16.746	0.000	286746	50.0000	48.1
16 Naphthalene	19.623	19.623	0.000	448601	50.0000	50.7
M 5 C9-C12				572440	100.000	99.6
\$ 17 2,5-Dibromotoluene	21.301	21.301	0.000	145578	50.0000	48.7

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Data File: /chem/gcv5a.i/2111107.b/v5011.d
Date : 07-NOV-2011 16:16
Client ID:
Sample Info: VPH6/12/4
Volume Injected (uL): 1.0
Column phase: DB-624-30

Instrument: gcv5a.i
Operator: JAR
Column diameter: 0.53

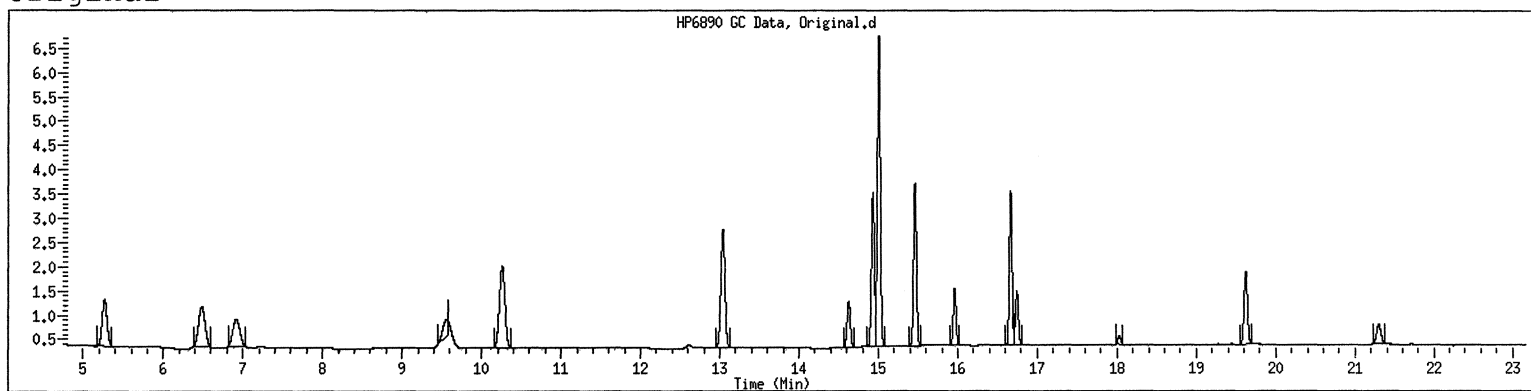


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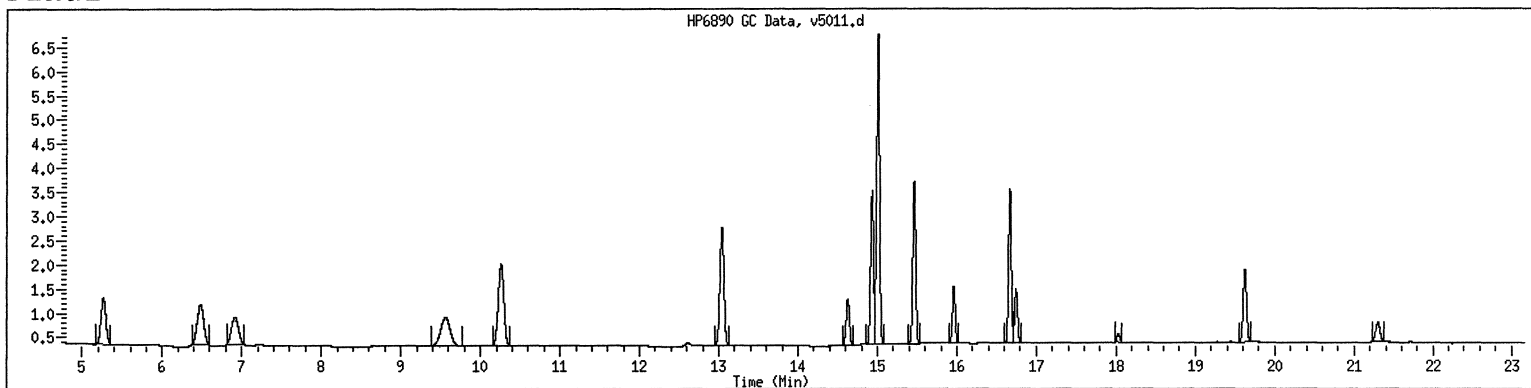
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH6/12/4 SampleType : CCALIB_3
Injection Date: 11/07/2011 16:16 Instrument : gcv5a.i
Operator : JAR
Sample Info : VPH6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcv5a.i Injection Date: 07-NOV-2011 23:22
 Lab File ID: v5021.d Init. Cal. Date(s): 04-NOV-2011 05-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 20:57 01:52
 Lab Sample ID: VPH6/12/4 Quant Type: ESTD
 Method: /var/chem/gcv5a.i/2111107.b/FIDMVPH.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D / %DRIFT		
M 2 C5-C8	9822	9028	0.010	8.07690	25.00000	Averaged	
1 n-Pentane	9000	8035	0.010	10.72067	25.00000	Averaged	
3 2-Methyl Pentane	10438	9486	0.010	9.12269	25.00000	Averaged	
6 Isooctane	10027	9565	0.010	4.61537	25.00000	Averaged	
13 n-Decane	5555	4698	0.010	15.42674	25.00000	Averaged	
15 n-Butylcyclohexane	5958	5459	0.010	8.38734	25.00000	Averaged	
16 Naphthalene	8853	9479	0.010	-7.06687	25.00000	Averaged	
M 5 C9-C12	5437	5078	0.010	6.60479	25.00000	Averaged	
\$ 17 2,5-Dibromotoluene	2990	3336	0.010	-11.58685	30.00000	Averaged	

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 9.06758
 Maximun Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5021.d
 Lab Smp Id: VPH6/12/4
 Inj Date : 07-NOV-2011 23:22
 Operator : JAR
 Smp Info : VPH6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
 Meth Date : 18-Nov-2011 14:24 bmr
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5a.i
 Quant Type: ESTD
 Cal File: v5011.d
 Continuing Calibration Sample
 Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

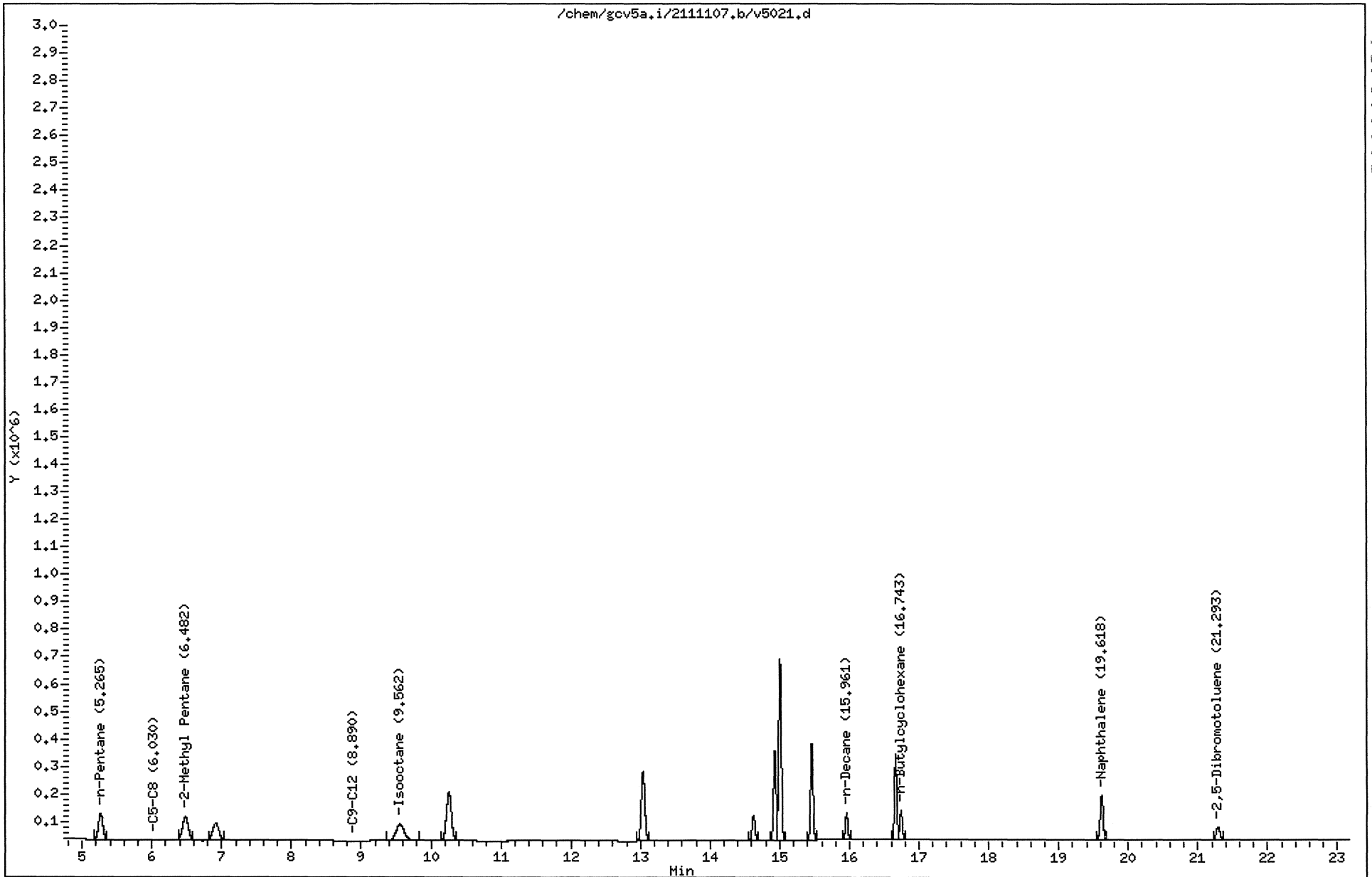
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
M 2 C5-C8				1354273	150.000	138
1 n-Pentane	5.265	5.265	0.000	401765	50.0000	44.6
3 2-Methyl Pentane	6.482	6.482	0.000	474278	50.0000	45.4
6 Isooctane	9.562	9.562	0.000	478230	50.0000	47.7 (M1)
13 n-Decane	15.961	15.961	0.000	234899	50.0000	42.3
15 n-Butylcyclohexane	16.743	16.743	0.000	272936	50.0000	45.8
16 Naphthalene	19.618	19.618	0.000	473949	50.0000	53.5
M 5 C9-C12				507835	100.000	88.1
§ 17 2,5-Dibromotoluene	21.293	21.293	0.000	166803	50.0000	55.8

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Data File: /chem/gcv5a.i/2111107.b/v5021.d
Date : 07-NOV-2011 23:22
Client ID:
Sample Info: VPH6/12/4
Volume Injected (uL): 1.0
Column phase: DB-624-30

Instrument: gcv5a.i
Operator: JAR
Column diameter: 0.53

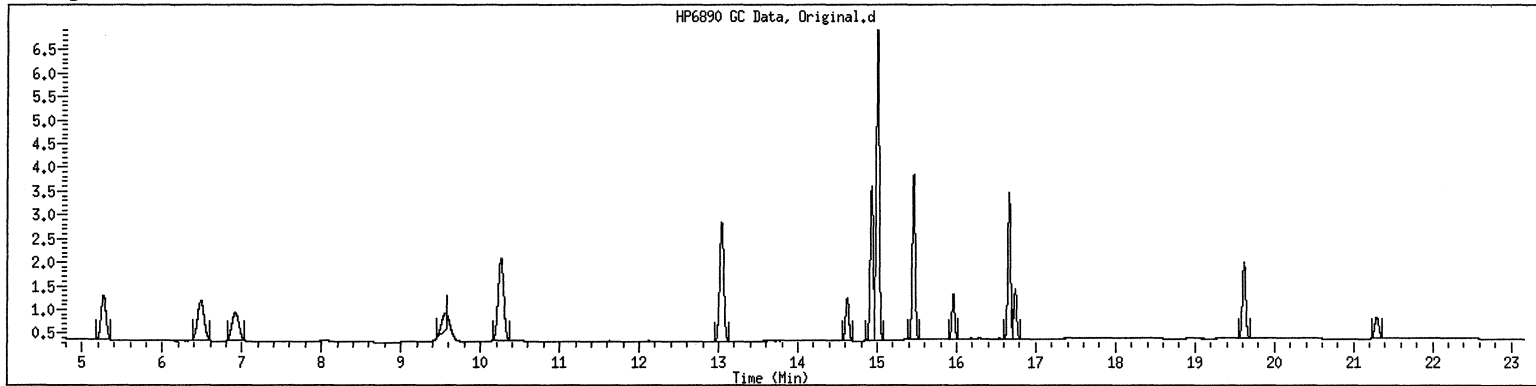


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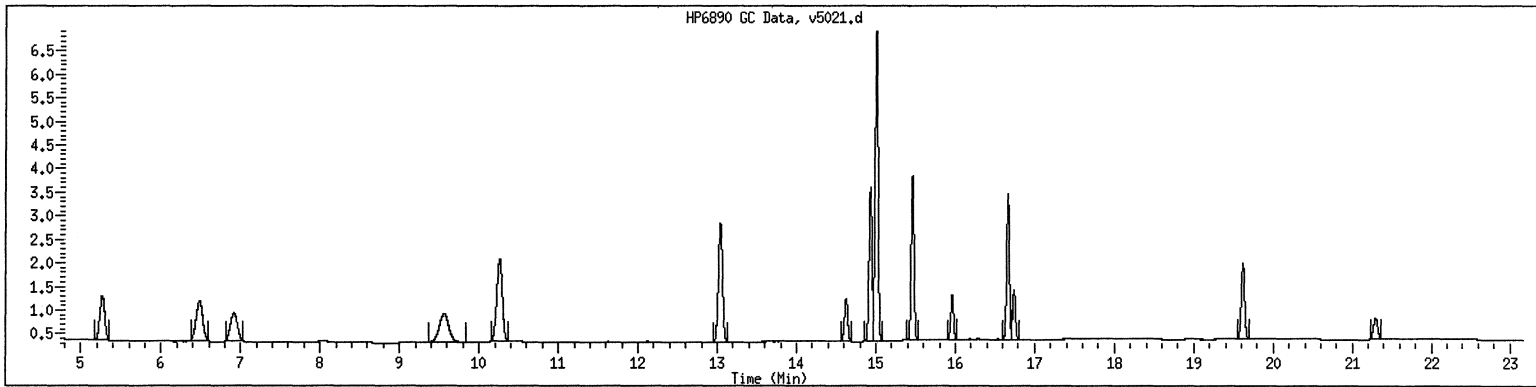
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH6/12/4 SampleType : CCALIB_3
Injection Date: 11/07/2011 23:22 Instrument : gcv5a.i
Operator : JAR
Sample Info : VPH6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcv5a.i Injection Date: 08-NOV-2011 01:49
Lab File ID: v5026.d Init. Cal. Date(s): 04-NOV-2011 05-NOV-2011
Analysis Type: WATER Init. Cal. Times: 20:57 01:52
Lab Sample ID: VPH6/12/4 Quant Type: ESTD
Method: /var/chem/gcv5a.i/2111107.b/FIDMVPH.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
M 2 C5-C8	9822	9226	0.010	6.06878	25.00000	Averaged
1 n-Pentane	9000	8302	0.010	7.75673	25.00000	Averaged
3 2-Methyl Pentane	10438	9667	0.010	7.38401	25.00000	Averaged
6 Isooctane	10027	9708	0.010	3.18469	25.00000	Averaged
13 n-Decane	5555	4605	0.010	17.10129	25.00000	Averaged
15 n-Butylcyclohexane	5958	5545	0.010	6.94738	25.00000	Averaged
16 Naphthalene	8853	10068	0.010	-13.72177	25.00000	Averaged
M 5 C9-C12	5437	5075	0.010	6.67118	25.00000	Averaged
\$ 17 2,5-Dibromotoluene	2990	3325	0.010	-11.22962	30.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 8.89616
Maximun Average %D/Drift = 25.00000
* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5026.d
Lab Smp Id: VPH6/12/4
Inj Date : 08-NOV-2011 01:49
Operator : JAR
Smp Info : VPH6/12/4
Misc Info :
Comment :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Meth Date : 17-Nov-2011 15:51 bmr
Cal Date : 05-NOV-2011 01:52
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon
Target Version: 3.50
Processing Host: org.gcal.com
Inst ID: gcv5a.i
Quant Type: ESTD
Cal File: v5011.d
Continuing Calibration Sample
Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (ug/L)	ON-COL (ug/L)
M 2 C5-C8				1383858	150.000	141
1 n-Pentane	5.266	5.266	0.000	415103	50.0000	46.1
3 2-Methyl Pentane	6.483	6.483	0.000	483352	50.0000	46.3
6 Isooctane	9.562	9.562	0.000	485403	50.0000	48.4 (M1)
13 n-Decane	15.960	15.960	0.000	230248	50.0000	41.4
15 n-Butylcyclohexane	16.742	16.742	0.000	277226	50.0000	46.5
16 Naphthalene	19.617	19.617	0.000	503408	50.0000	56.9
M 5 C9-C12				507474	100.000	88.0
\$ 17 2,5-Dibromotoluene	21.292	21.292	0.000	166269	50.0000	55.6

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Date : 08-NOV-2011 01:49

Client ID:

Instrument: gcv5a.i

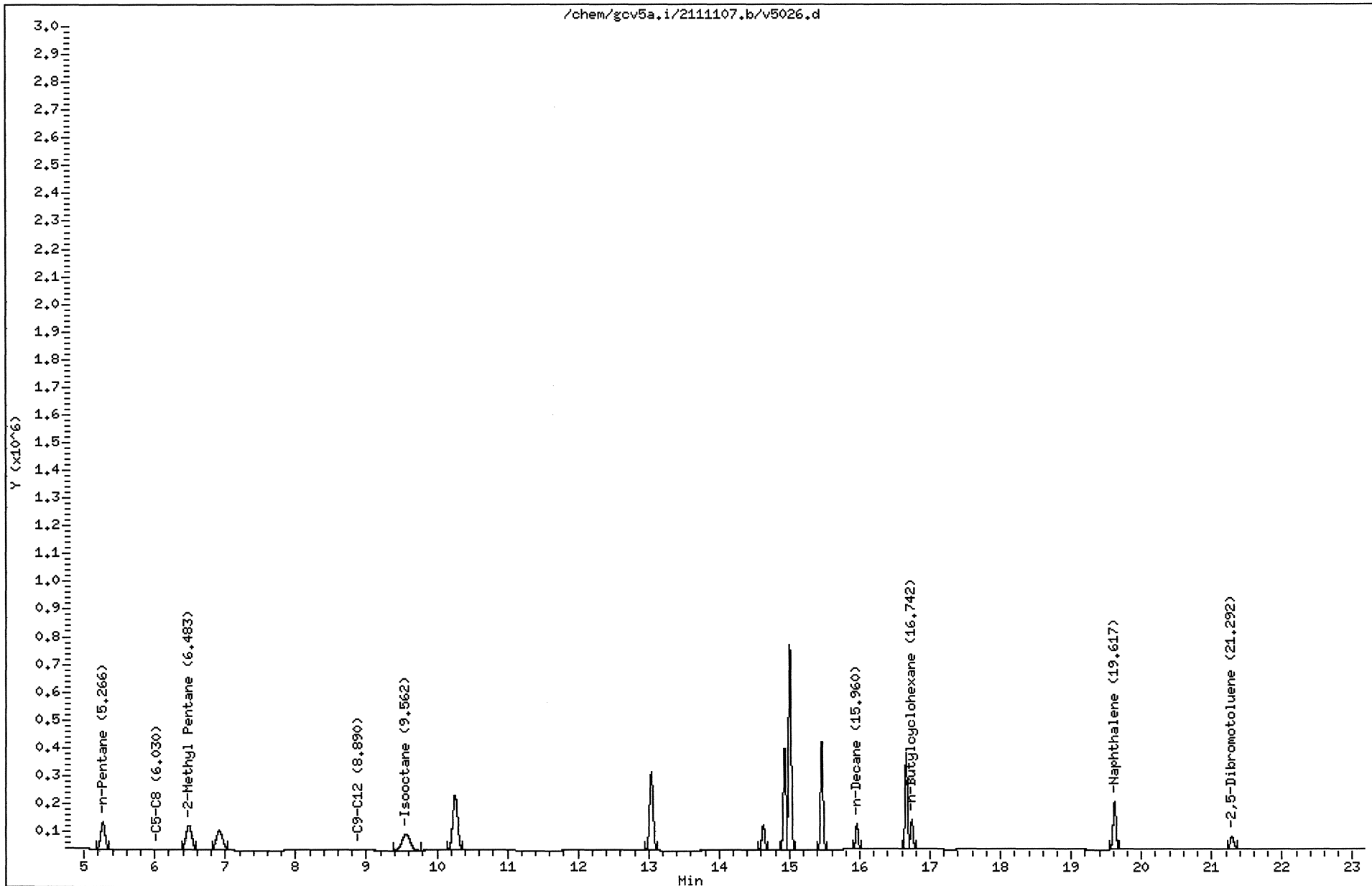
Sample Info: VPH6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

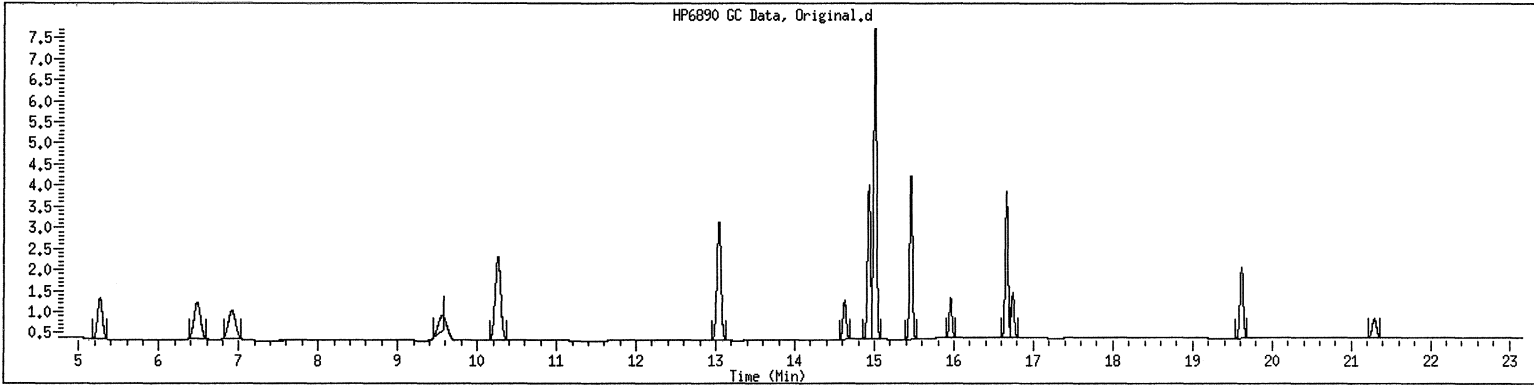


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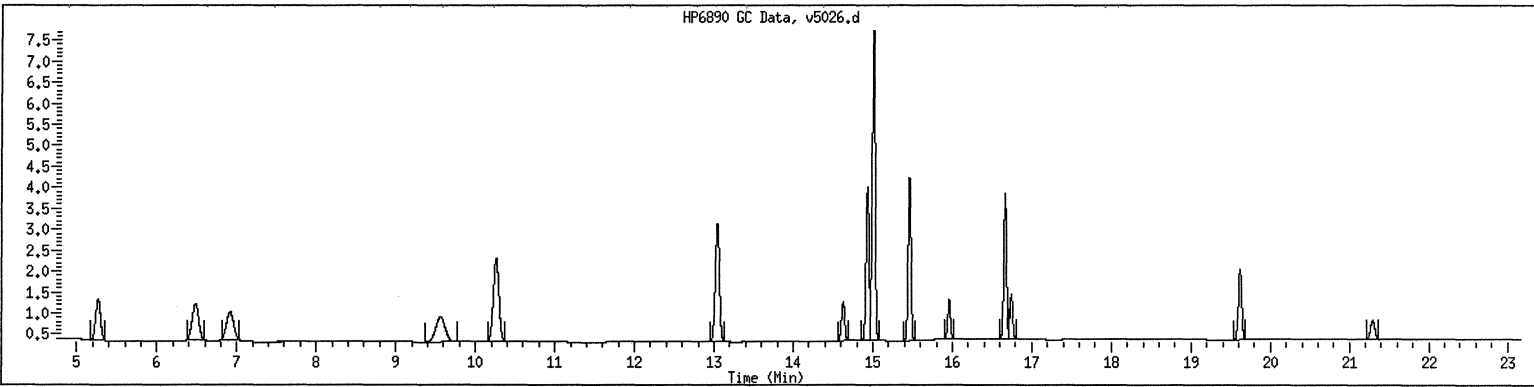
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : VPH6/12/4
Injection Date: 11/08/2011 01:49
Operator : JAR
Sample Info : VPH6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon
SampleType : CCALIB_3
Instrument : gcv5a.i
Compound Sublist: aliphatic1+surr

Original



Final



1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: MB1003187
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211110421
 Sample wt/vol: 5 Units: mL Lab Sample ID: 1003187
 Level: (low/med) _____ Date Collected: _____ Time: _____
 % Moisture: _____ decanted: (Y/N) _____ Date Received: _____
 GC Column: _____ ID: _____ (mm) Date Extracted: _____
 Concentrated Extract Volume: 5000 (µL) Date Analyzed: 11/07/11 Time: 1221
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: JAR
 Injection Volume: 1 (µL) Prep Method: _____
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSVPH
 Prep Batch: _____ Analytical Batch: 468512 Sulfur Cleanup: (Y/N) N Instrument ID: GCV5B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111107/v5003

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCV-00-4	C5-C8 Aliphatic	15.0	U	3.31	15.0	30.0
GCV-00-5	C9-C12 Aliphatic	10.0	U	3.20	10.0	20.0
GCV-00-6	C9-C10 Aromatic	5.00	U	1.24	5.00	10.0

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5003.d

Lab Smp Id: 1003187 Client Smp ID: 1003187

Inj Date : 07-NOV-2011 12:21

Operator : JAR Inst ID: gcv5b.i

Smp Info : 1003187

Misc Info :

Comment :

Method : /var/chem/gcv5b.i/2111107.b/PIDMVP.H.m

Meth Date : 08-Nov-2011 13:39 jar Quant Type: ESTD

Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d

Als bottle: 1

Dil Factor: 1.00000

Integrator: Falcon Compound Sublist: aromatic.sub

Target Version: 3.50

Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

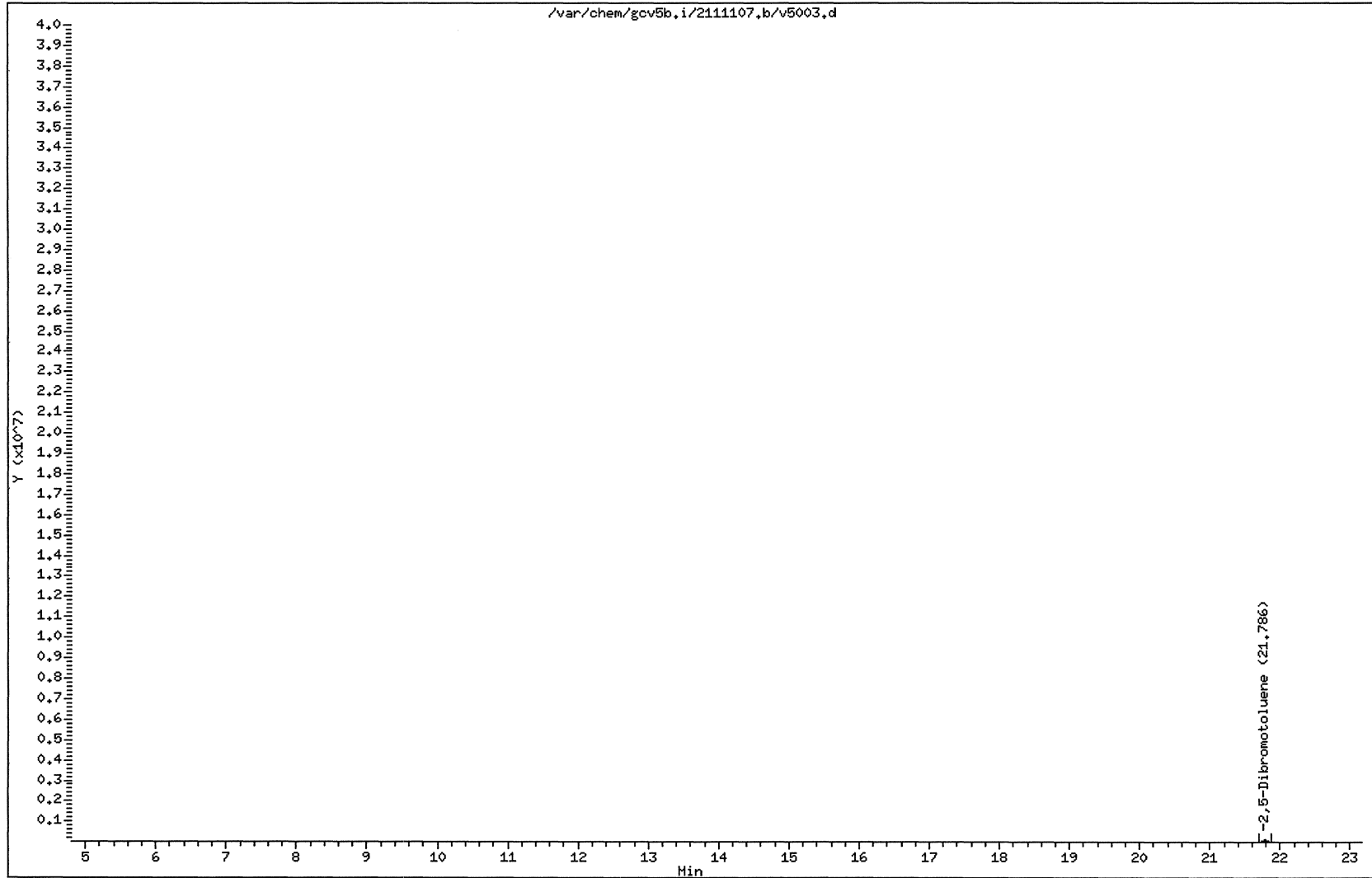
Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds				CONCENTRATIONS		
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
\$ 10 2,5-Dibromotoluene	21.786	21.781	0.005	350170	50.0811	50.1

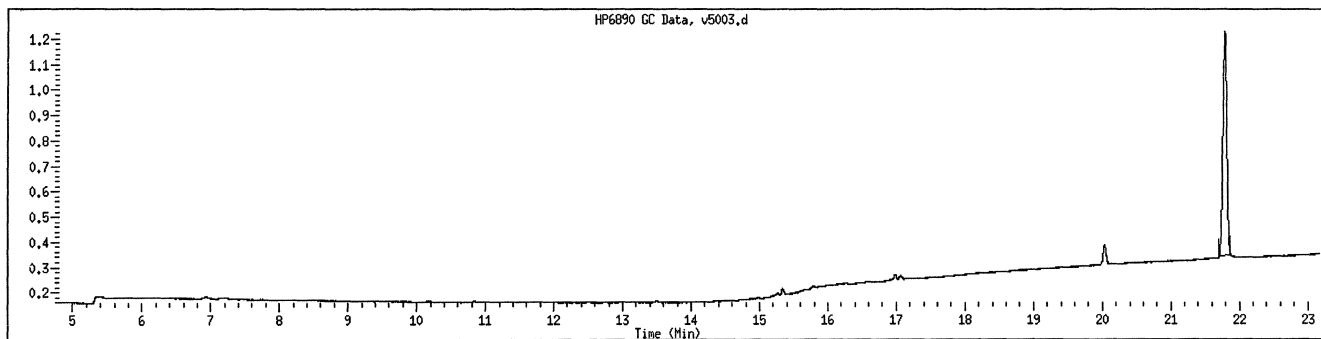
Data File: /var/chem/gcv5b.i/2111107,b/v5003,d
Date : 07-NOV-2011 12:21
Client ID: 1003187
Sample Info: 1003187
Volume Injected (uL): 1.0
Column phase: DB-624-30

Instrument: gcv5b.i
Operator: JAR
Column diameter: 0.53



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1003187 SampleType : SAMPLE
Injection Date: 11/07/2011 12:21 Instrument : gcv5b.i
Operator : JAR
Sample Info : 1003187
Misc Info :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

```
Data file : /var/chem/gcv5a.i/2111107.b/v5003.d
Lab Smp Id: BLK
Inj Date  : 07-NOV-2011 12:21
Operator  : JAR                               Inst ID: gcv5a.i
Smp Info  : BLK
Misc Info :
Comment   :
Method    : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Meth Date : 07-Nov-2011 10:29 jar             Quant Type: ESTD
Cal Date  : 05-NOV-2011 01:52               Cal File: v5011.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon                           Compound Sublist: aliphatic1+surr.sub
Target Version: 3.50
Processing Host: org.gcal.com
```

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
§ 17 2,5-Dibromotoluene	21.297	21.294	0.003	143488	47.9950	48.0

Date : 07-NOV-2011 12:21

Client ID:

Instrument: gcv5a.i

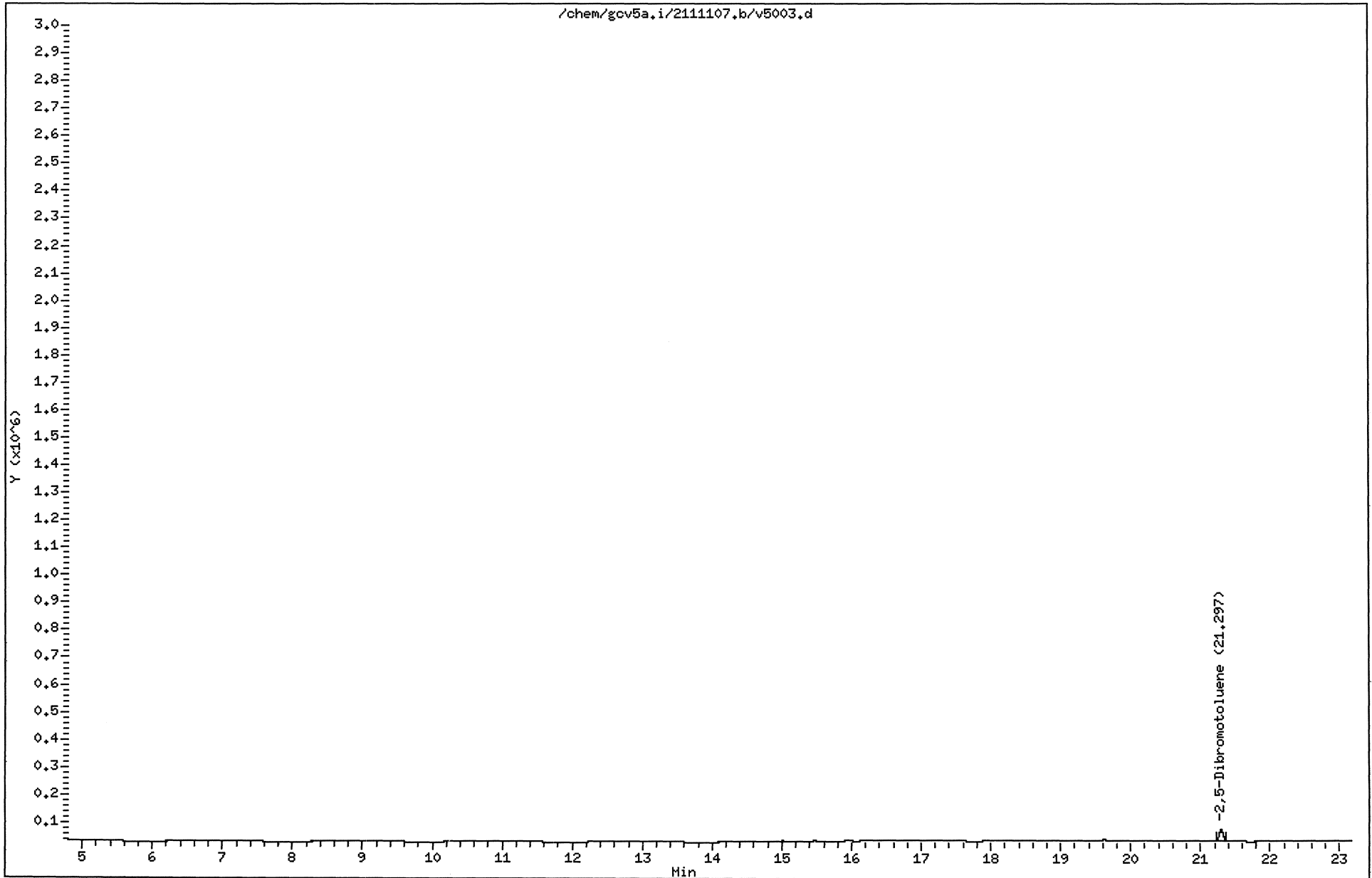
Sample Info: BLK

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

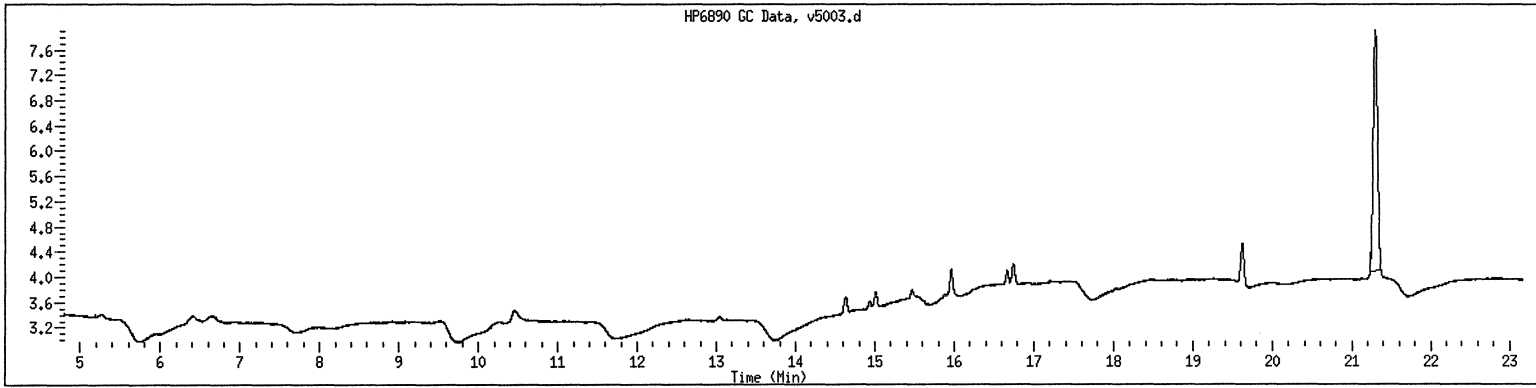
Column diameter: 0.53



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: BLK	SampleType	: SAMPLE
Injection Date	: 11/07/2011 12:21	Instrument	: gcv5a.i
Operator	: JAR		
Sample Info	: BLK		
Misc Info	:		
Method	: /var/chem/gcv5a.i/2111107.b/FIDMVPH.m		
Dilution	: 1.0		
Matrix	: WATER		
Integrator	: Falcon	Compound Sublist:	aliphatic1+surr



NO MANUAL INTEGRATIONS

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: LCS1003188
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211110421
 Sample wt/vol: 5 Units: mL Lab Sample ID: 1003188
 Level: (low/med) _____ Date Collected: _____ Time: _____
 % Moisture: _____ decanted: (Y/N) _____ Date Received: _____
 GC Column: _____ ID: _____ (mm) Date Extracted: _____
 Concentrated Extract Volume: 5000 (µL) Date Analyzed: 11/07/11 Time: 1151
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: JAR
 Injection Volume: 1 (µL) Prep Method: _____
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSVPH
 Prep Batch: _____ Analytical Batch: 468512 Sulfur Cleanup: (Y/N) N Instrument ID: GCV5B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111107/v5002

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCV-00-4	C5-C8 Aliphatic	152		3.31	15.0	30.0
GCV-00-5	C9-C12 Aliphatic	105		3.20	10.0	20.0
GCV-00-6	C9-C10 Aromatic	54.4		1.24	5.00	10.0

GCAL, Inc.

Data file : /var/chem/gcv5b.i/2111107.b/v5002.d
Lab Smp Id: 1003188 Client Smp ID: 1003188
Inj Date : 07-NOV-2011 11:51
Operator : JAR Inst ID: gcv5b.i
Smp Info : 1003188
Misc Info : lcs6/12/4
Comment :
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Meth Date : 08-Nov-2011 13:39 jar Quant Type: ESTD
Cal Date : 05-NOV-2011 01:52 Cal File: v5011.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: aromatic.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

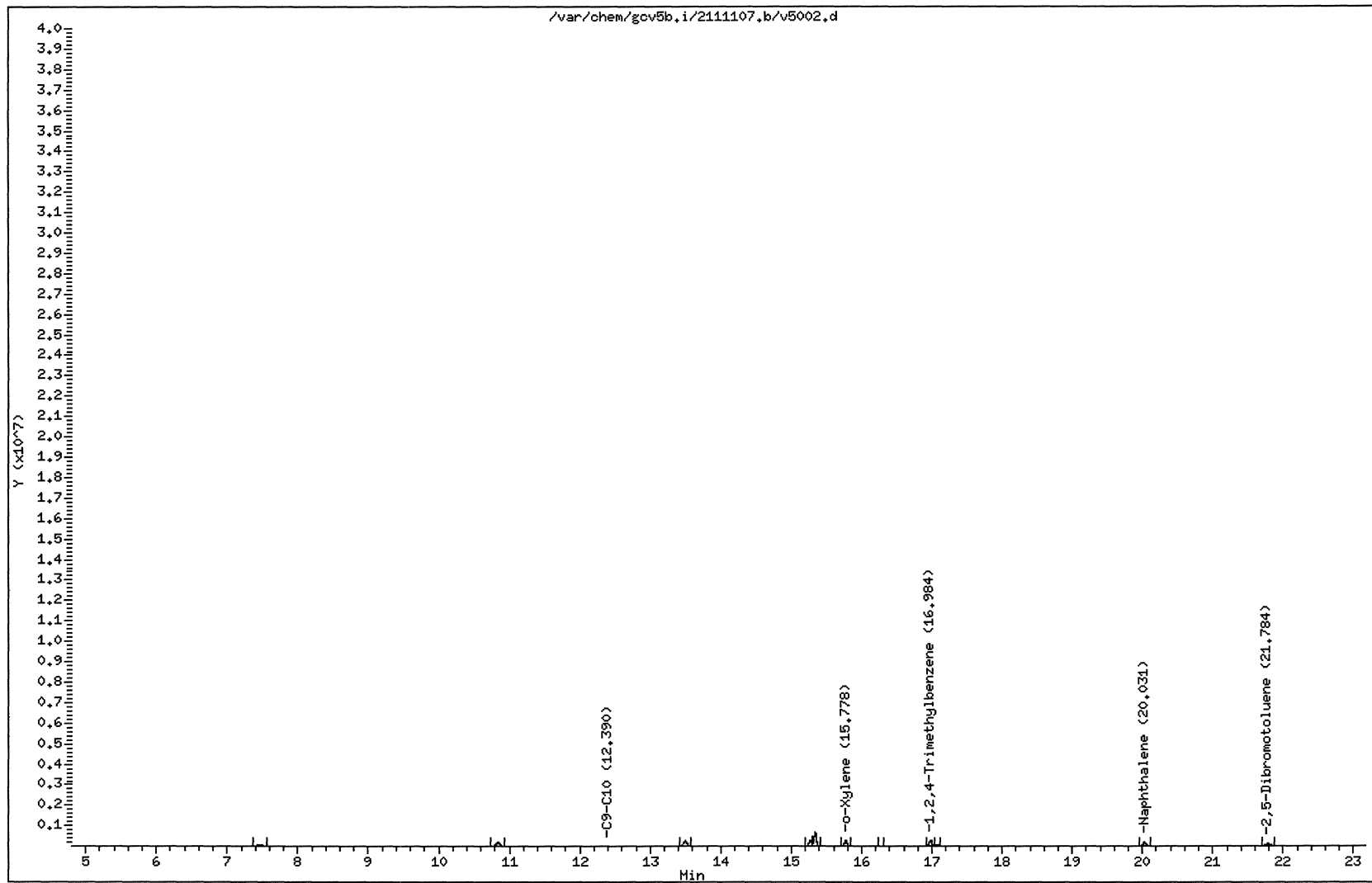
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
6 o-Xylene	15.778	15.777	0.001	709878	52.3134	52.3
7 1,2,4-Trimethylbenzene	16.984	16.983	0.001	655039	54.4552	54.4
M 9 C9-C10				655039	54.4552	54.4
8 Naphthalene	20.031	20.028	0.003	556525	54.6350	54.6
\$ 10 2,5-Dibromotoluene	21.784	21.781	0.003	365094	52.2155	52.2

Data File: /var/chem/gcv5b,i/2111107,b/v5002,d
Date : 07-NOV-2011 11:51
Client ID: 1003188
Sample Info: 1003188
Volume Injected (uL): 1.0
Column phase: DB-624-30

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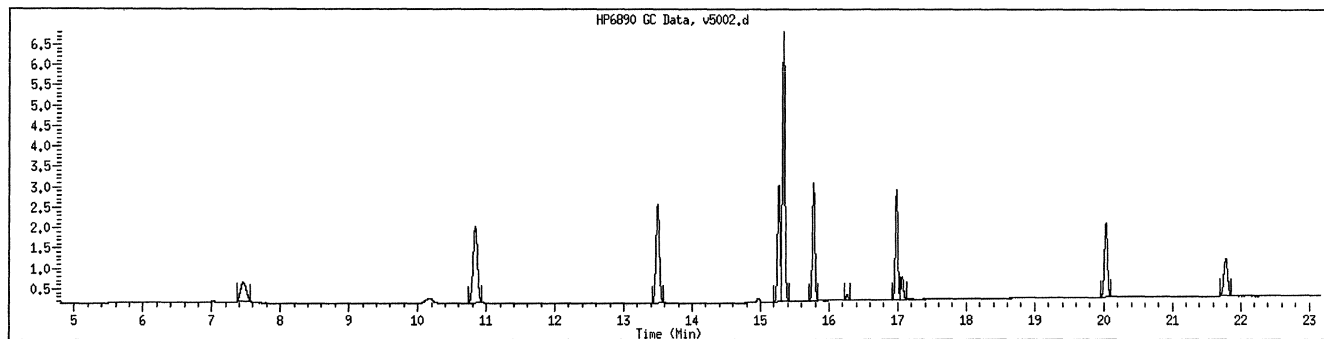
Instrument: gcv5b.i
Operator: JAR
Column diameter: 0.53



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1003188 SampleType : LCS
Injection Date: 11/07/2011 11:51 Instrument : gcv5b.i
Operator : JAR
Sample Info : 1003188
Misc Info : lcs6/12/4
Method : /var/chem/gcv5b.i/2111107.b/PIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aromatic



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcv5a.i/2111107.b/v5002.d
 Lab Smp Id: lcs6/12/4
 Inj Date : 07-NOV-2011 11:51
 Operator : JAR
 Smp Info : lcs6/12/4
 Misc Info :
 Comment :
 Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
 Meth Date : 07-Nov-2011 10:29 jar
 Cal Date : 05-NOV-2011 01:52
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: Falcon
 Target Version: 3.50
 Processing Host: org.gcal.com

Inst ID: gcv5a.i
 Quant Type: ESTD
 Cal File: v5011.d
 QC Sample: LCS
 Compound Sublist: aliphatic1+surr.sub

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Correction factor
Vt	1.00000	Volume of final extract (mL)
Vo	1.00000	Volume of sample extracted (mL)
Vi	1.00000	Volume injected (uL)

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
M 2 C5-C8				1496403	152.268	152
1 n-Pentane	5.269	5.263	0.006	446597	49.6209	49.6
3 2-Methyl Pentane	6.485	6.480	0.005	522005	50.0112	50.0
6 Isooctane	9.564	9.557	0.007	527801	52.6359	52.6 (M1)
13 n-Decane	15.962	15.959	0.003	281892	50.7463	50.7
15 n-Butylcyclohexane	16.744	16.742	0.002	324847	54.5185	54.5
16 Naphthalene	19.621	19.617	0.004	473106	53.4382	53.4
M 5 C9-C12				606739	105.265	105
\$ 17 2,5-Dibromotoluene	21.296	21.294	0.002	146985	49.1646	49.2

QC Flag Legend

M1- Compound response manually integrated because
Target system did not integrate.

Date : 07-NOV-2011 11:51

Client ID:

Instrument: gcv5a.i

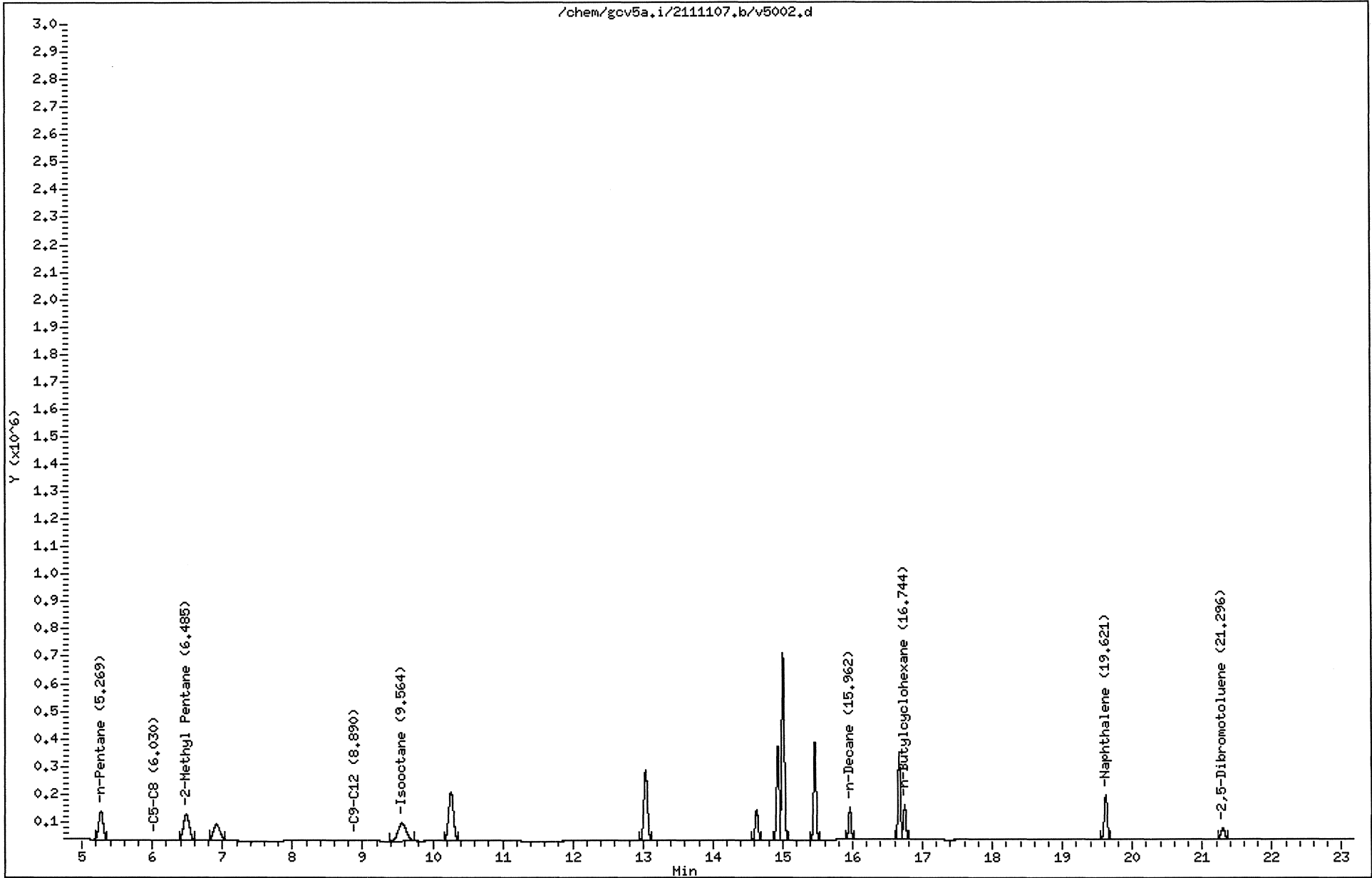
Sample Info: lcs6/12/4

Volume Injected (uL): 1.0

Operator: JAR

Column phase: DB-624-30

Column diameter: 0.53

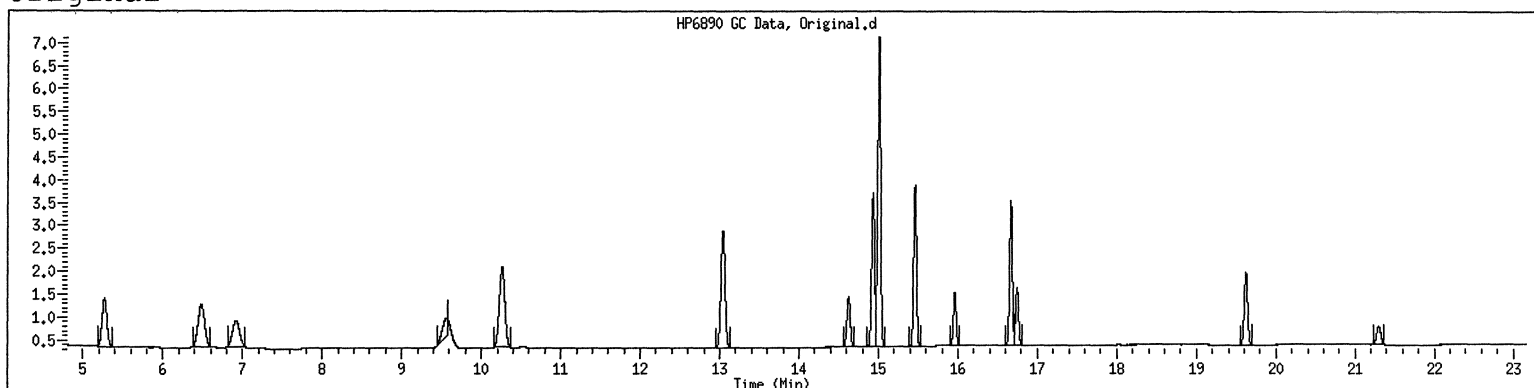


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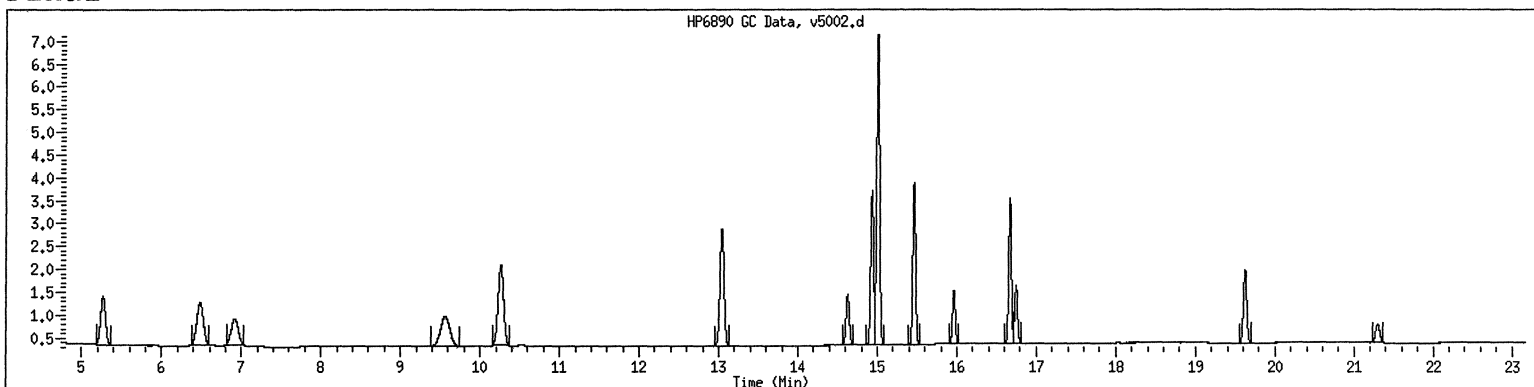
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : lcs6/12/4 SampleType : LCS
Injection Date: 11/07/2011 11:51 Instrument : gcv5a.i
Operator : JAR
Sample Info : lcs6/12/4
Misc Info :
Method : /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
Dilution : 1.0
Matrix : WATER
Integrator : Falcon Compound Sublist: aliphatic1+surr

Original



Final



LABORATORY CHRONICLE: GCV DEPARTMENT

Date: 11/17/2011
 Instrument: gcv5b.i
 Method File: /var/chem/gcv5b.i/2111104P.b/PIDMVPH.m
 Batch: /chem/gcv5b.i/2111104P.b
 Column-Detector: DB-624-30

Sample ID	ClientName	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
VPH05/6/12/4		v5001.d	1.00 ml	04-NOV-2011 20:57	1.000	JAR	1	aromatic
VPH10/6/12/4		v5003.d	1.00 ml	04-NOV-2011 21:56	1.000	JAR	1	aromatic
VPH20/6/12/4		v5005.d	5.00 g	04-NOV-2011 22:55	50.000	JAR	1	aromatic
VPH50/6/12/4		v5007.d	1.00 ml	04-NOV-2011 23:54	1.000	JAR	1	aromatic
VPH80/6/12/4		v5009.d	1.00 ml	05-NOV-2011 00:53	1.000	JAR	1	aromatic
VPH100/6/12/4		v5011.d	1.00 ml	05-NOV-2011 01:52	1.000	JAR	1	aromatic
ICV6/12/5		v5013.d	5.00 g	05-NOV-2011 02:51	50.000	JAR	1	aromatic

LABORATORY CHRONICLE: GCV DEPARTMENT

Date: 11/08/2011

Instrument: gcv5b.i

Method File: /var/chem/gcv5b.i/2111107.b/PIDMVPH.m

Batch: /var/chem/gcv5b.i/2111107.b

Column-Detector: DB-624-30

Sample ID	ClientName	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
VPH6/12/4		v5001.d	5.00 g	07-NOV-2011 11:22	50.000	JAR	1	aromatic
1003188		v5002.d	1.00 ml	07-NOV-2011 11:51	1.000	JAR	1	aromatic
1003187		v5003.d	1.00 ml	07-NOV-2011 12:21	1.000	JAR	1	aromatic
BLK		v5004.d	5.00 g	07-NOV-2011 12:50	50.000	JAR	1	aromatic
21110202112		v5005.d	1.00 ml	07-NOV-2011 13:19	50.000	JAR	1	aromatic
21110202112		v5006.d	1.00 ml	07-NOV-2011 13:49	50.000	JAR	1	aromatic
21110202105		v5007.d	5.00 g	07-NOV-2011 14:18	10000.000	JAR	1	aromatic
21110202105		v5008.d	5.00 g	07-NOV-2011 14:48	10000.000	JAR	1	aromatic
21110202112		v5009.d	5.00 g	07-NOV-2011 15:17	50.000	JAR	1	aromatic
21110202112		v5010.d	1.00 ml	07-NOV-2011 15:47	50.000	JAR	1	aromatic
VPH6/12/4		v5011.d	5.00 g	07-NOV-2011 16:16	50.000	JAR	1	aromatic
21110312401		v5012.d	1.00 ml	07-NOV-2011 18:26	10.000	JAR	1	aromatic
21110312402		v5013.d	1.00 ml	07-NOV-2011 18:55	10.000	JAR	1	aromatic
21110312403		v5014.d	1.00 ml	07-NOV-2011 19:25	10.000	JAR	1	aromatic
21110312404		v5015.d	1.00 ml	07-NOV-2011 19:55	10.000	JAR	1	aromatic
21110312408		v5016.d	1.00 ml	07-NOV-2011 21:53	1.000	JAR	1	aromatic
21110312406		v5017.d	1.00 ml	07-NOV-2011 20:54	1.000	JAR	1	aromatic
21110312407		v5018.d	1.00 ml	07-NOV-2011 21:23	1.000	JAR	1	aromatic
21110312409		v5019.d	1.00 ml	07-NOV-2011 22:22	1.000	JAR	1	aromatic
21110312410		v5020.d	1.00 ml	07-NOV-2011 22:52	1.000	JAR	1	aromatic
VPH6/12/4		v5021.d	1.00 ml	07-NOV-2011 23:22	1.000	JAR	1	aromatic
VPH6/12/4		v5022.d	1.00 ml	07-NOV-2011 23:51	1.000	JAR	1	aromatic
21110312411		v5023.d	1.00 ml	08-NOV-2011 00:21	1.000	JAR	1	aromatic
21110312412		v5024.d	1.00 ml	08-NOV-2011 00:50	1.000	JAR	1	aromatic
21111042101		v5025.d	1.00 ml	08-NOV-2011 01:20	1.000	JAR	1	aromatic
VPH6/12/4		v5026.d	1.00 ml	08-NOV-2011 01:49	1.000	JAR	1	aromatic
21110312405		v5028.d	1.00 ml	08-NOV-2011 11:23	1.000	JAR	1	aromatic
21110312409		v5029.d	1.00 ml	08-NOV-2011 11:52	1.000	JAR	1	aromatic
21110312410		v5030.d	1.00 ml	08-NOV-2011 12:22	1.000	JAR	1	aromatic
vph6/12/4		v5031.d	1.00 ml	08-NOV-2011 12:51	1.000	JAR	1	aromatic

LABORATORY CHRONICLE: GCV DEPARTMENT

Date: 11/17/2011
 Instrument: gcv5a.i
 Method File: /var/chem/gcv5a.i/2111104p.b/FIDMVPH.m
 Batch: /chem/gcv5a.i/2111104p.b
 Column-Detector: DB-624-30

Sample ID	ClientName	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
VPH05/6/12/4		v5001.d	1.00 ml	04-NOV-2011 20:57	1.000	JAR	1	aliphaticl+surr
VPH10/6/12/4		v5003.d	1.00 ml	04-NOV-2011 21:56	1.000	JAR	1	aliphaticl+surr
VPH20/6/12/4		v5005.d	1.00 ml	04-NOV-2011 22:55	1.000	JAR	1	aliphaticl+surr
VPH50/6/12/4		v5007.d	1.00 ml	04-NOV-2011 23:54	1.000	JAR	1	aliphaticl+surr
VPH80/6/12/4		v5009.d	1.00 ml	05-NOV-2011 00:53	1.000	JAR	1	aliphaticl+surr
VPH100/6/12/4		v5011.d	1.00 ml	05-NOV-2011 01:52	1.000	JAR	1	aliphaticl+surr
ICV6/12/5		v5013.d	1.00 ml	05-NOV-2011 02:51	1.000	JAR	1	aliphaticl+surr

LABORATORY CHRONICLE: GCV DEPARTMENT

Date: 11/08/2011
 Instrument: gcv5a.i
 Method File: /var/chem/gcv5a.i/2111107.b/FIDMVPH.m
 Batch: /var/chem/gcv5a.i/2111107.b
 Column-Detector: DB-624-30

Sample ID	ClientName	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
VPH6/12/4		v5001.d	1.00 ml	07-NOV-2011 11:22	1.000	JAR	1	aliphatic1+surr
lcs6/12/4		v5002.d	1.00 ml	07-NOV-2011 11:51	1.000	JAR	1	aliphatic1+surr
BLK		v5003.d	1.00 ml	07-NOV-2011 12:21	1.000	JAR	1	aliphatic1+surr
BLK		v5004.d	1.00 ml	07-NOV-2011 12:50	1.000	JAR	1	aliphatic1+surr
21110202112		v5005.d	1.00 ml	07-NOV-2011 13:19	100.000	JAR	1	aliphatic1+surr
21110202112		v5006.d	1.00 ml	07-NOV-2011 13:49	100.000	JAR	1	aliphatic1+surr
21110270701		v5007.d	5.00 g	07-NOV-2011 14:18	10000.000	JAR	1	aliphatic1+surr
21110270701		v5008.d	5.00 g	07-NOV-2011 14:48	10000.000	JAR	1	aliphatic1+surr
21110202112		v5009.d	1.00 ml	07-NOV-2011 15:17	50.000	JAR	1	aliphatic1+surr
21110202112		v5010.d	1.00 ml	07-NOV-2011 15:47	50.000	JAR	1	aliphatic1+surr
VPH6/12/4		v5011.d	1.00 ml	07-NOV-2011 16:16	1.000	JAR	1	aliphatic1+surr
21110312401		v5012.d	1.00 ml	07-NOV-2011 18:26	10.000	JAR	1	aliphatic1+surr
21110312402		v5013.d	1.00 ml	07-NOV-2011 18:55	10.000	JAR	1	aliphatic1+surr
21110312403		v5014.d	1.00 ml	07-NOV-2011 19:25	10.000	JAR	1	aliphatic1+surr
21110312404		v5015.d	1.00 ml	07-NOV-2011 19:55	10.000	JAR	1	aliphatic1+surr
21110312408		v5016.d	1.00 ml	07-NOV-2011 21:53	1.000	JAR	1	aliphatic1+surr
21110312406		v5017.d	1.00 ml	07-NOV-2011 20:54	1.000	JAR	1	aliphatic1+surr
21110312407		v5018.d	1.00 ml	07-NOV-2011 21:23	1.000	JAR	1	aliphatic1+surr
21110312409		v5019.d	1.00 ml	07-NOV-2011 22:22	1.000	JAR	1	aliphatic1+surr
21110312410		v5020.d	1.00 ml	07-NOV-2011 22:52	1.000	JAR	1	aliphatic1+surr
VPH6/12/4		v5021.d	1.00 ml	07-NOV-2011 23:22	1.000	JAR	1	aliphatic1+surr
VPH6/12/4		v5022.d	1.00 ml	07-NOV-2011 23:51	1.000	JAR	1	aliphatic1+surr
21110312411		v5023.d	1.00 ml	08-NOV-2011 00:21	1.000	JAR	1	aliphatic1+surr
21110312412		v5024.d	1.00 ml	08-NOV-2011 00:50	1.000	JAR	1	aliphatic1+surr
21111042101		v5025.d	1.00 ml	08-NOV-2011 01:20	1.000	JAR	1	aliphatic1+surr
VPH6/12/4		v5026.d	1.00 ml	08-NOV-2011 01:49	1.000	JAR	1	aliphatic1+surr
21110312405		v5028.d	1.00 ml	08-NOV-2011 11:23	1.000	JAR	1	aliphatic1+surr
21110312409		v5029.d	1.00 ml	08-NOV-2011 11:52	1.000	JAR	1	aliphatic1+surr
21110312410		v5030.d	1.00 ml	08-NOV-2011 12:22	1.000	JAR	1	aliphatic1+surr
vph6/12/4		v5031.d	1.00 ml	08-NOV-2011 12:51	1.000	JAR	1	aliphatic1+surr

2E
WATER ORGANIC SURROGATE RECOVERY

Lab Name: GCAL Contract: _____

Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 211110421

GC Column (1): DB-5MS-30M ID: .25 (mm) GC Cloumn (2): _____ ID: _____ (mm)

Method: MASSEPH

EPA SAMPLE NO.	SMC1 1-(1)			SMC1 1-(2)			SMC2 2-(1)			SMC2 2-(2)			TOT OUT
	Lo	Hi	F	Lo	Hi	F	Lo	Hi	F	Lo	Hi	F	
1. ES057	85	40	140				68	40	140				0
2. LCS1004105	98	40	140				82	40	140				0
3. LCSD1004106	100	40	140				84	40	140				0
4. MB1004104	92	40	140				80	40	140				0

SMC 1: 1-Chlorooctadecane

SMC 2: O-Terphenyl

Column to be used to flag recovery limits

* Value outside of contract required limits

D Surrogate diluted out

3E
WATER ORGANICS LCS/LCSD RECOVERY

Lab Name: GCAL
 Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 211110421
 Contract: _____ Method: MASSEPH
 Prep Batch: 468721 Analytical Batch: 469140

SAMPLE NO : 1004105

COMPOUND	UNITS	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS % REC	LCS % REC FLAG	QC. LIMITS
C11-C22 Aromatics	ug/L	250	0	188	75		40 - 140
C19-C36 Aliphatic Hydrocarbons	ug/L	150	0	101	67		40 - 140
C9-C18 Aliphatic Hydrocarbons	ug/L	100	0	51.9	52		40 - 140

SAMPLE NO : 1004106

COMPOUND	UNITS	SPIKE ADDED	LCSD CONC.	LCSD % REC	REC FLAG	% RPD	RPD FLAG	QC. LIMITS REC	RPD
C11-C22 Aromatics	ug/L	250	191	76		2		40 - 140	0 - 40
C19-C36 Aliphatic Hydrocarbons	ug/L	150	94.2	63		7		40 - 140	0 - 40
C9-C18 Aliphatic Hydrocarbons	ug/L	100	52.8	53		2		40 - 140	0 - 40

RPD : 0 out of 3 outside limits

Spike Recovery: 0 out of 6 outside limits

FORM III ORG-1

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4C
ORGANIC METHOD BLANK SUMMARY

Lab Name: GCAL Sample ID: MB1004104
Lab Code: LA024 Case No.: _____ Contract: _____
Lab Sample ID: 1004104 SAS No.: _____ SDG No.: 211110421
Matrix: Water Sulfur Cleanup: (Y/N) N Date Extracted: 11/08/11
Date Analyzed (1): 11/10/11 Time (1): 1515 Date Analyzed (2): _____ Time (2): _____
Instrument ID (1): GCS19B Instrument ID (2): _____ (mm)
GC Column (1): DB-5MS-30M ID: .25 (mm) GC Column (2): _____ ID: _____
Method: MASSEPH Prep Batch: 468721 Analytical Batch: 469140
Lab File ID: 2111110/sv19b0

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES

	<i>SAMPLE NO.</i>	<i>LAB SAMPLE ID</i>	<i>DATE ANALYZED</i>	<i>TIME ANALYZED</i>	<i>INSTRUMENT ID</i>
1.	LCS1004105	1004105	11/10/11	1603	GCS19B
2.	LCSD1004106	1004106	11/10/11	1651	GCS19B
3.	ES057	21111042101	11/10/11	2229	GCS19B

FORM IV ORGANIC

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1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: ES057
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211110421
 Sample wt/vol: 990 Units: mL Lab Sample ID: 21111042101
 Level: (low/med) LOW Date Collected: 11/02/11 Time: 1105
 % Moisture: _____ decanted: (Y/N) _____ Date Received: 11/04/11
 GC Column: DB-5MS-30M ID: .25 (mm) Date Extracted: 11/08/11
 Concentrated Extract Volume: 2000 (µL) Date Analyzed: 11/10/11 Time: 2229
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: SMH
 Injection Volume: 1 (µL) Prep Method: MASS EPH
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSEPH
 Prep Batch: 468721 Analytical Batch: 469140 Sulfur Cleanup: (Y/N) N Instrument ID: GCS19B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111110/sv19b072

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCSV-02-22	C11-C22 Aromatics	50.5	J	42.5	42.5	101
GCSV-02-24	C19-C36 Aliphatic Hydrocarbons	60.6	U	31.6	60.6	101
GCSV-02-23	C9-C18 Aliphatic Hydrocarbons	22.0	U	22.0	22.0	101

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111110.b/sv19b072.d
 Lab Smp Id: 21111042101 Client Smp ID: 1
 Inj Date : 10-NOV-2011 22:29
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21111042101*1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111110.b/AROEPhmass.m
 Meth Date : 11-Nov-2011 15:43 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 72
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	990.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
21 Benzo(g,h,i)Perylene	9.811	13.997	-4.186	201767410	72.6306	147(M1)
M 22 Arom C11-C22				201767410	72.6306	147

QC Flag Legend

M1- Compound response manually integrated because Target system did not integrate.

Data File: /var/chem/gcsv19b.i/2111110.b/sv19b072.d

Page 1

Date : 10-NOV-2011 22:29

Client ID: 1

Instrument: gcsv19b.i

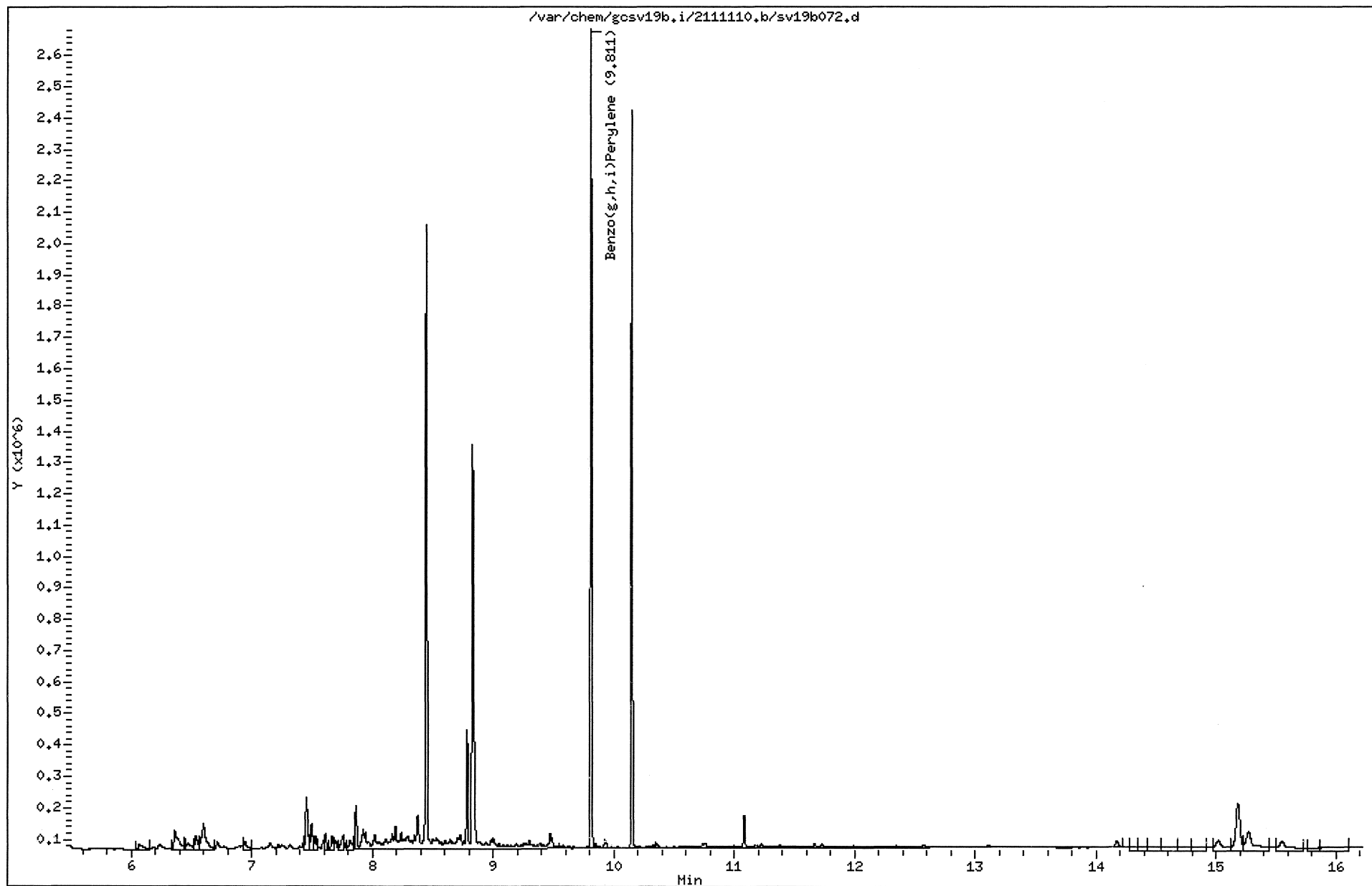
Sample Info: 21111042101*1

Volume Injected (uL): 1.0

Operator: smh

Column phase: DB-5MS-30M

Column diameter: 0.25

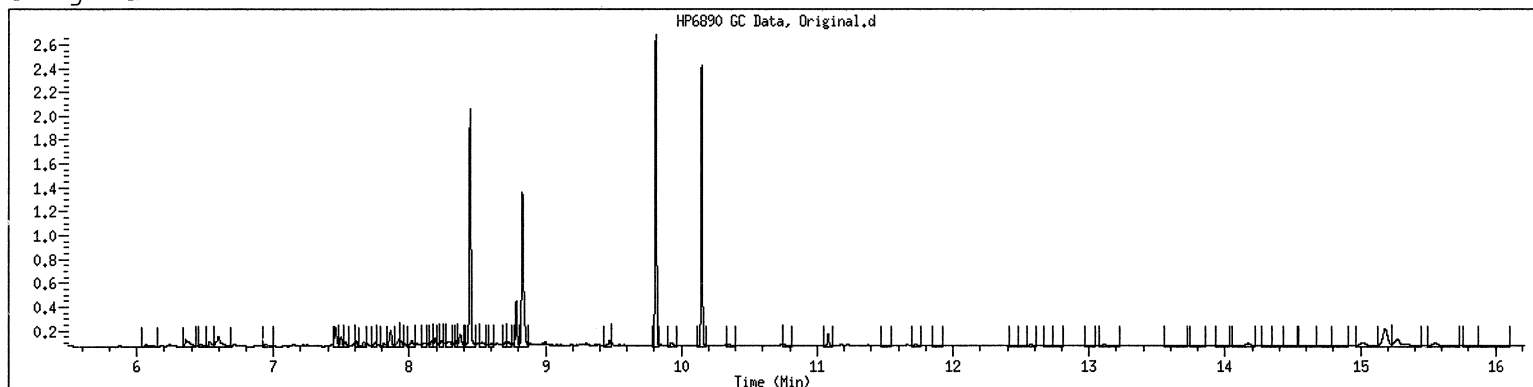


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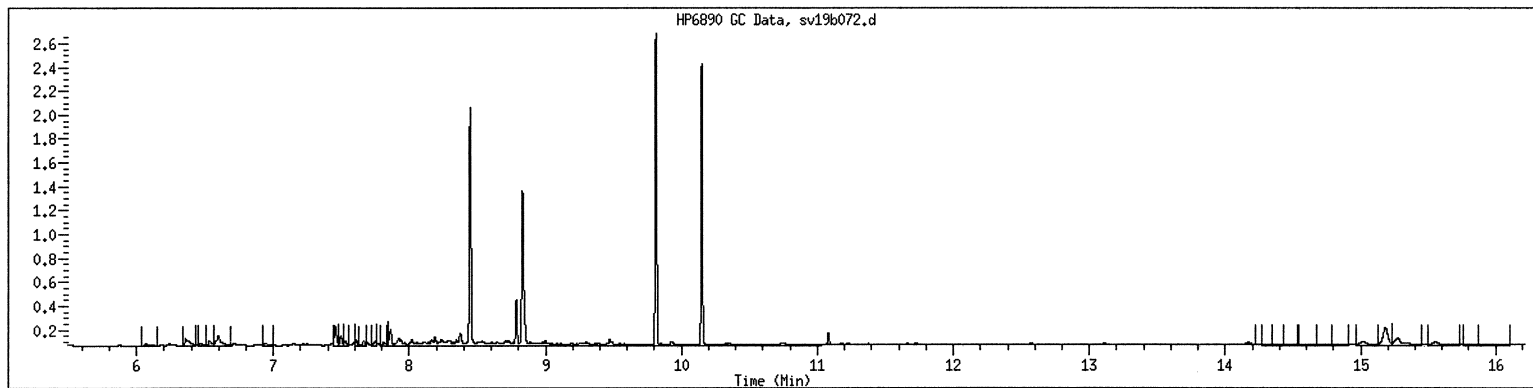
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21111042101 SampleType : SAMPLE
Injection Date: 11/10/2011 22:29 Instrument : gcsv19b.i
Operator : smh
Sample Info : 21111042101*1
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/AROEPMass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111110.b/sv19b072s.d
Lab Smp Id: 21111042101 Client Smp ID: 1
Inj Date : 10-NOV-2011 22:29
Operator : smh Inst ID: gcsv19b.i
Smp Info : 21111042101*1
Misc Info :
Comment :
Method : /var/chem/gcsv19b.i/2111110.b/AROEPHmass.m
Meth Date : 11-Nov-2011 15:43 dlb Quant Type: ESTD
Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
Als bottle: 72
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: surr.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	990.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
\$ 3 2-Fluorobiphenyl	8.446	8.454	-0.008	33895572	13.7928	27.9
\$ 5 2-Bromonaphthalene	8.830	8.838	-0.008	26845557	17.1124	34.6
\$ 10 O-Terphenyl	9.811	9.822	-0.011	39779501	13.4901	27.3
\$ 11 Chloro-octadecane	10.149	10.158	-0.009	32440638	11.8418	23.9
M 113 Total Surrogate Area				132961268		(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Date : 10-NOV-2011 22:29

Client ID: 1

Instrument: gcsv19b.i

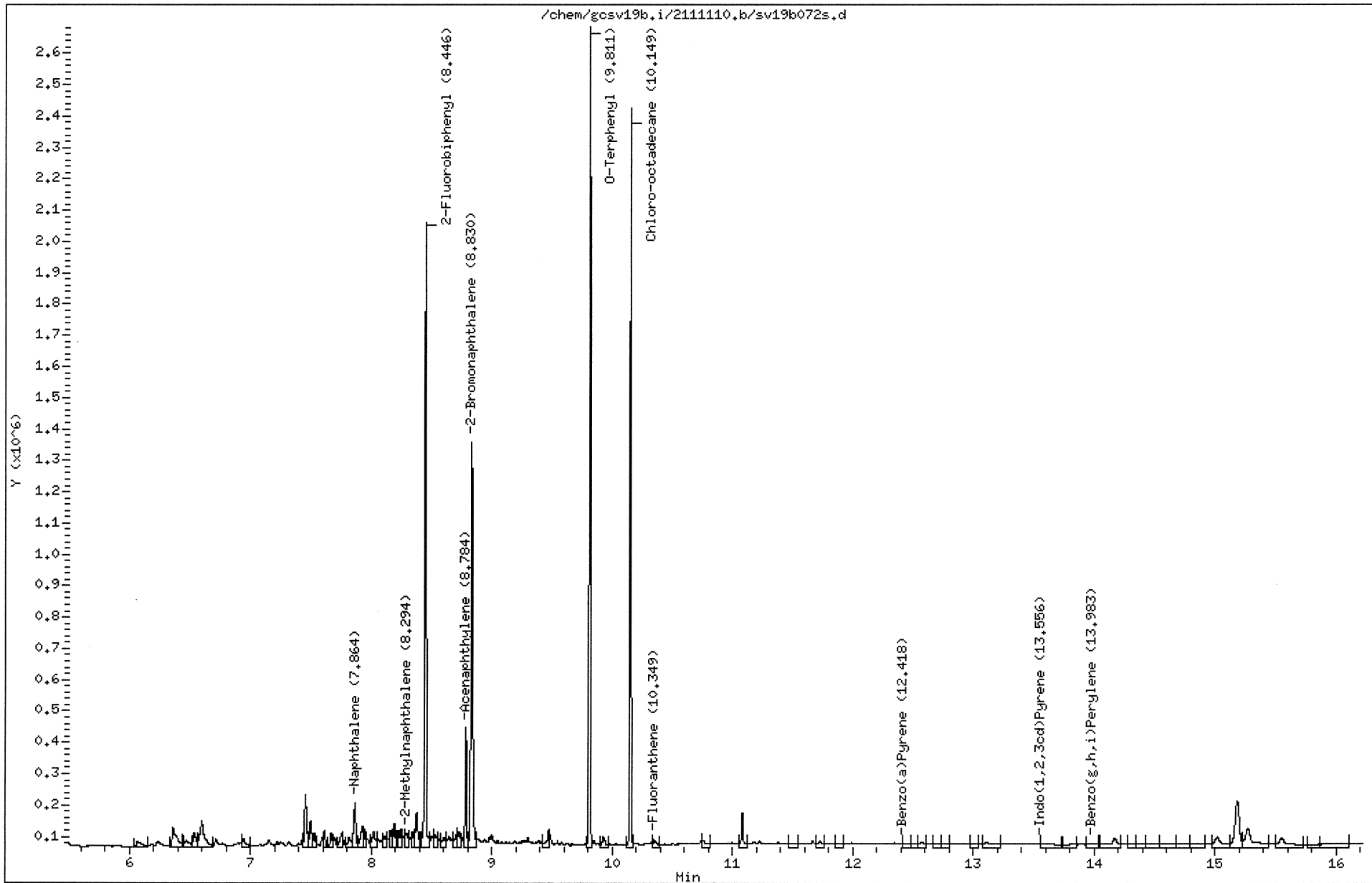
Sample Info: 21111042101*1

Volume Injected (uL): 1.0

Operator: smh

Column phase: DB-5MS-30M

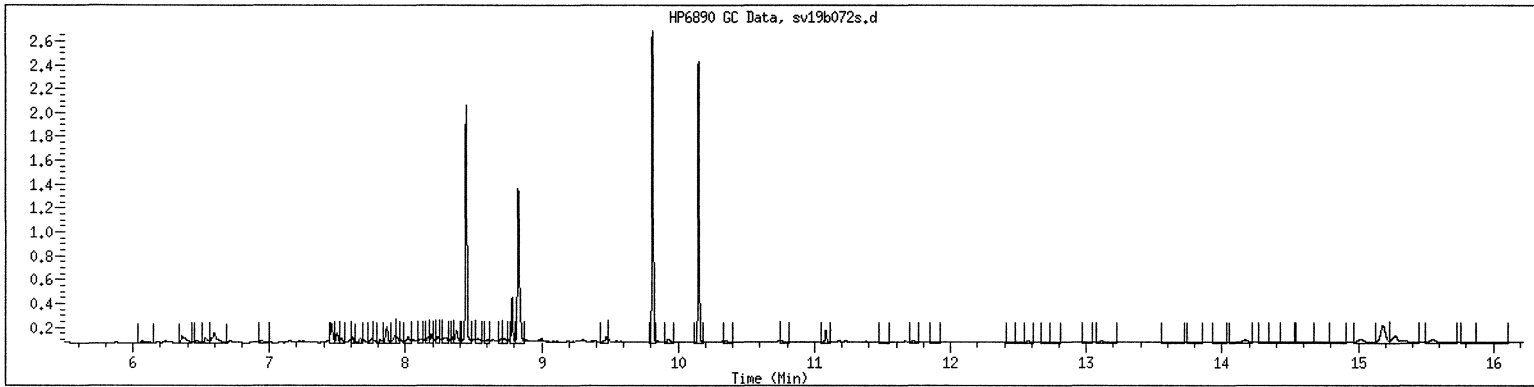
Column diameter: 0.25



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21111042101 SampleType : SAMPLE
Injection Date: 11/10/2011 22:29 Instrument : gcsv19b.i
Operator : smh
Sample Info : 21111042101*1
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/AROEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: surr



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111110.b/sv19b073.d
 Lab Smp Id: 21111042101 Client Smp ID: 1
 Inj Date : 10-NOV-2011 22:53
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 21111042101*1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
 Meth Date : 11-Nov-2011 15:05 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 73
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	990.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
\$ 15 Chlorooctadecane	10.150	10.215	-0.065	14208645	5.18643	10.5(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Date : 10-NOV-2011 22:53

Client ID: 1

Instrument: gcsv19b.i

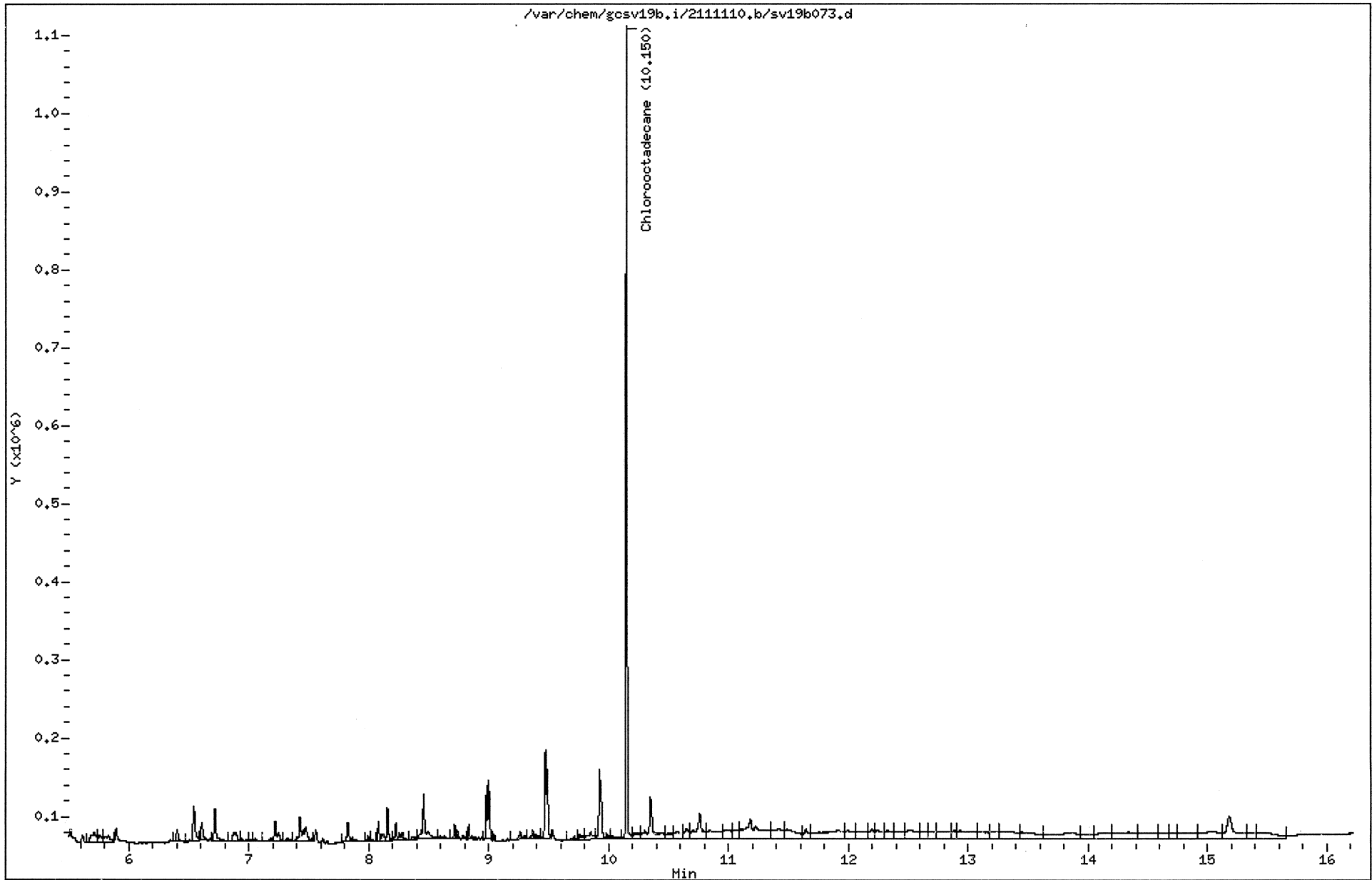
Sample Info: 21111042101*1

Volume Injected (uL): 1.0

Operator: smh

Column phase: DB-5MS-30M

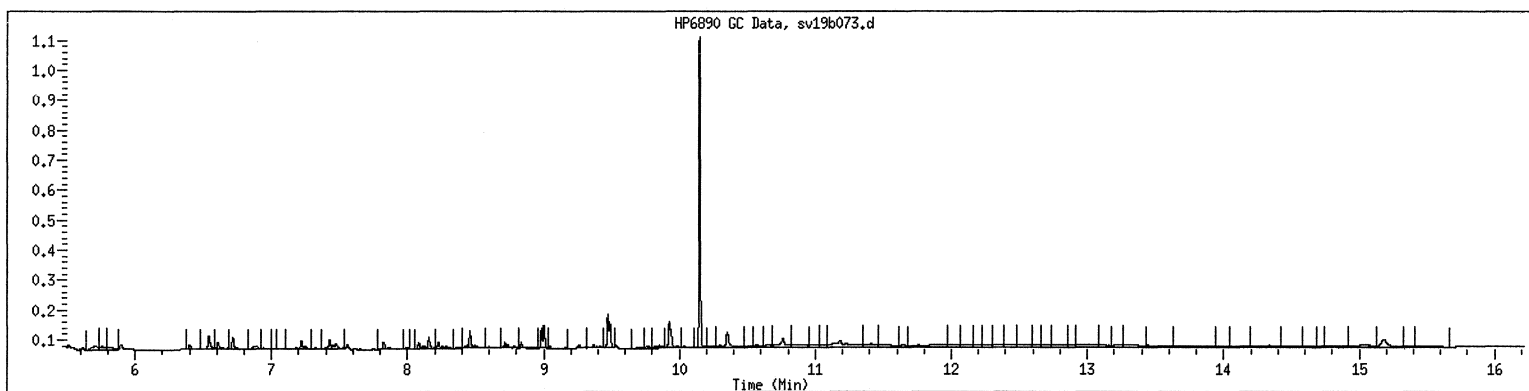
Column diameter: 0.25



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 21111042101 SampleType : SAMPLE
Injection Date: 11/10/2011 22:53 Instrument : gcsv19b.i
Operator : smh
Sample Info : 21111042101*1
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-NOV-2011 12:55
 End Cal Date : 03-NOV-2011 14:30
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
 Cal Date : 17-Nov-2011 12:26 smh
 Curve Type : Average

Calibration File Names:

Level 1: /var/chem/gcsv19b.i/2111103.b/sv19b052.d
 Level 2: /var/chem/gcsv19b.i/2111103.b/sv19b053.d
 Level 3: /var/chem/gcsv19b.i/2111103.b/sv19b054.d
 Level 4: /var/chem/gcsv19b.i/2111103.b/sv19b055.d
 Level 5: /var/chem/gcsv19b.i/2111103.b/sv19b056.d

Compound	1.000 Level 1	10.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRF	% RSD
1 C-9	2907155	2795641	2675594	2679051	2539259	2719340	5.104
2 C-10	2799368	2826425	2717674	2752582	2600027	2739215	3.226
3 C-11	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 C-12	2927391	2898654	2764473	2774841	2641941	2801460	4.102
5 C-13	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 C-14	2986461	2962295	2862352	2862981	2716594	2878136	3.701
7 C-15	+++++	+++++	+++++	+++++	+++++	+++++	+++++
8 C-16	3076201	3075973	2956170	2972906	2834259	2983102	3.364
9 C-17	+++++	+++++	+++++	+++++	+++++	+++++	+++++
10 C-18	3132014	3109313	2986762	3012326	2866031	3021289	3.526
M 11 Alip C9-C18	2971432	2944717	2827171	2842448	2699685	2857090	3.779
12 C-19	3105166	3106510	2982171	3015246	2877102	3017239	3.169
13 C-20	3095123	3146395	3018289	3051261	2915502	3045314	2.859
14 C-21	+++++	+++++	+++++	+++++	+++++	+++++	+++++
16 C-22	3086197	3160319	3040998	3073189	2942532	3060647	2.587
17 C-23	+++++	+++++	+++++	+++++	+++++	+++++	+++++
18 C-24	3088147	3182819	3098256	3124206	2998582	3098402	2.157
19 C-25	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 C-26	3093703	3199157	3120962	3153549	3033072	3120089	2.004
21 C-27	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 C-28	3086943	3160312	3086851	3125844	3019987	3095987	1.692
115 C-30	3100257	3187831	3112669	3153703	3047243	3120341	1.716

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-NOV-2011 12:55
End Cal Date : 03-NOV-2011 14:30
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
Cal Date : 17-Nov-2011 12:26 smh
Curve Type : Average

Compound	1.000 Level 1	10.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRF	% RSD
23 C-35	+++++	+++++	+++++	+++++	+++++	+++++	+++++
114 C-36	2886196	3002979	2951503	2961566	2825927	2925634	2.383
M 24 Alip C19-C36	3067716	3143290	3051462	3082321	2957493	3060457	2.196
15 Chlorooctadecane	2745086	2791763	2723572	2771406	2666079	2739581	1.772

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111103.b/sv19b052.d
 Lab Smp Id: 1201 Client Smp ID: 1 84-15-4
 Inj Date : 03-NOV-2011 12:55
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1201*1 84-16-1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 09:16 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 12:55 Cal File: sv19b052.d
 Als bottle: 52 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 C-9	6.222	6.232	-0.010	2907155	1.00000	1.00 (M2)
2 C-10	6.925	6.929	-0.004	2799368	1.00000	1.00 (M2)
4 C-12	7.823	7.833	-0.010	2927391	1.00000	1.00 (M2)
6 C-14	8.462	8.471	-0.009	2986461	1.00000	1.00 (M2)
8 C-16	9.008	9.014	-0.006	3076201	1.00000	1.00 (M2)
10 C-18	9.502	9.504	-0.002	3132014	1.00000	1.00 (M2)
M 11 Alip C9-C18				17828590	6.00000	6.00
12 C-19	9.738	9.774	-0.036	3105166	1.00000	1.00 (M2)
13 C-20	9.965	9.957	0.008	3095123	1.00000	1.00 (M2)
\$ 15 Chlorooctadecane	10.185	10.217	-0.032	2745086	1.00000	1.00 (M2)
16 C-22	10.403	10.384	0.019	3086197	1.00000	1.00 (M2)
18 C-24	10.826	10.796	0.030	3088147	1.00000	1.00 (M2)
20 C-26	11.263	11.223	0.040	3093703	1.00000	1.00 (M2)

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
22 C-28	11.738	11.724	0.014	3086943	1.00000	1.00 (M2)
115 C-30	12.298	12.250	0.048	3100257	1.00000	1.00 (AM2)
114 C-36	15.181	15.144	0.037	2886196	1.00000	1.00 (AM2)
M 24 Alip C19-C36				24541732	8.00000	8.00

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Date : 03-NOV-2011 12:55

Client ID: 1 84-15-4

Sample Info: 1201*1 84-16-1

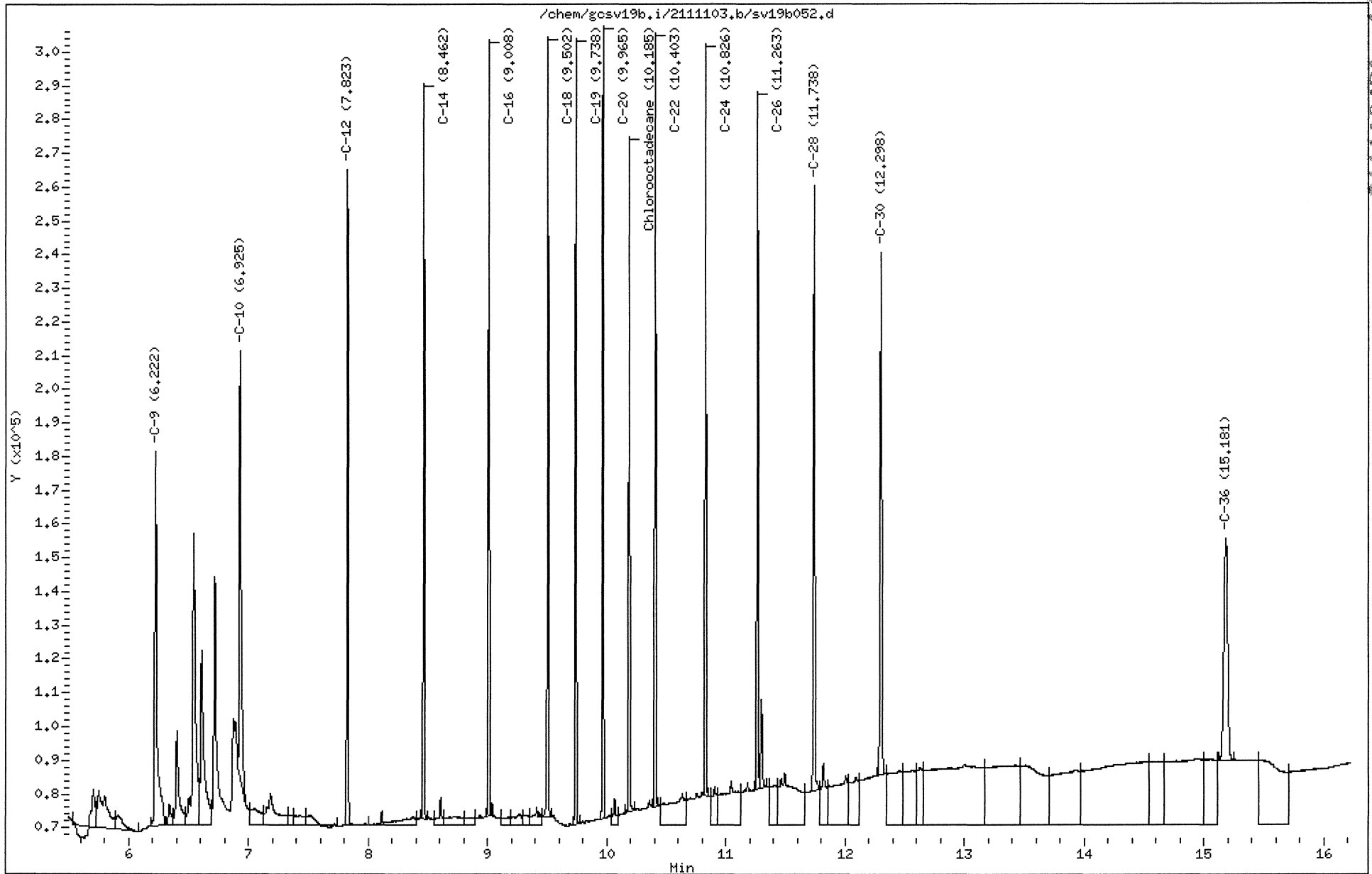
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gcsv19b.i

Operator: smh

Column diameter: 0.25

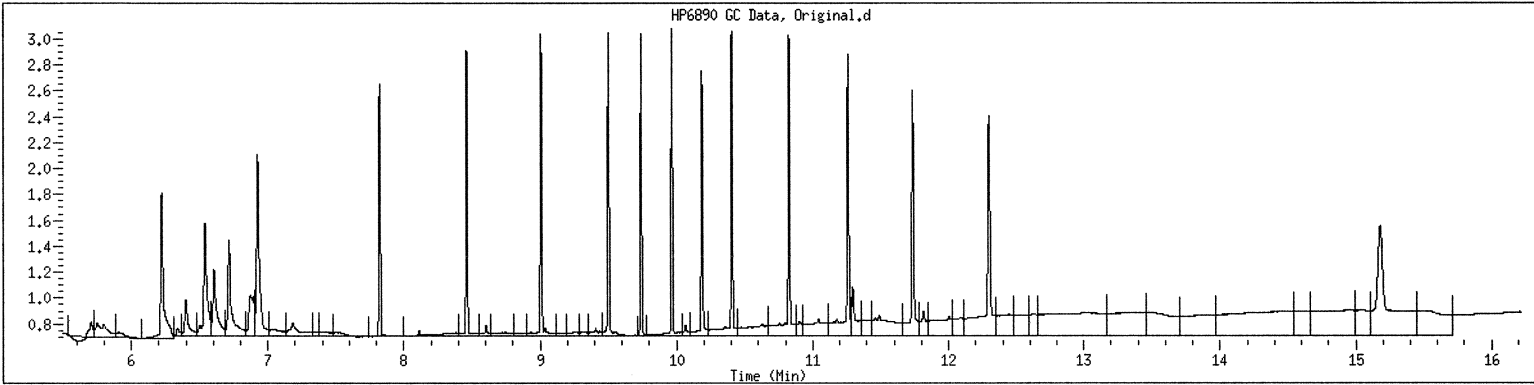


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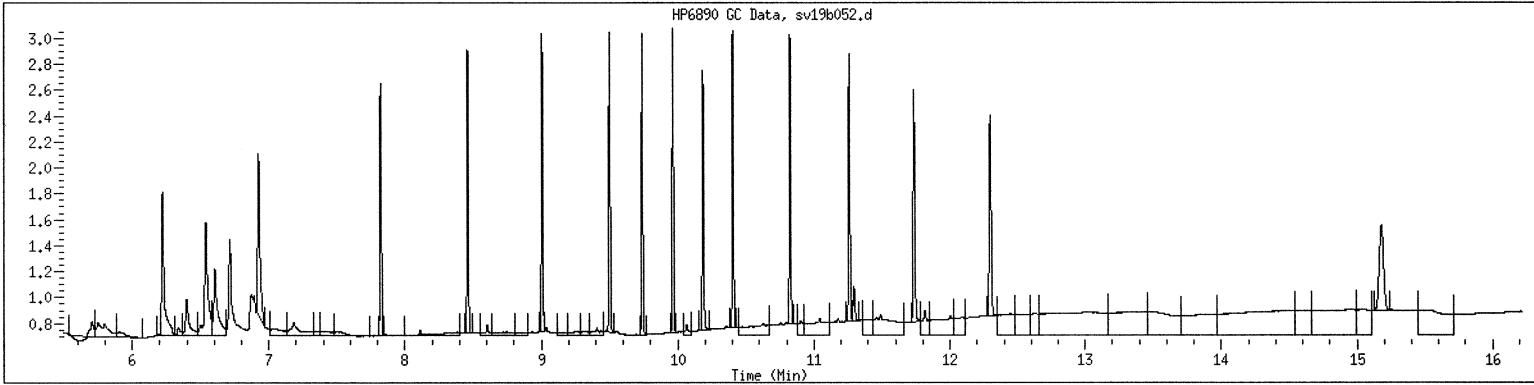
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1201 SampleType : CALIB_1
Injection Date: 11/03/2011 12:55 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1201*1 84-16-1
Misc Info :
Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111103.b/sv19b053.d
 Lab Smp Id: 1202 Client Smp ID: 1 84-15-4
 Inj Date : 03-NOV-2011 13:18
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1202*1 84-16-1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 09:16 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053.d
 Als bottle: 53 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 C-9	6.225	6.232	-0.007	27956412	10.0000	9.80 (M2)
2 C-10	6.929	6.929	0.000	28264251	10.0000	10.0 (M2)
4 C-12	7.825	7.833	-0.008	28986541	10.0000	9.95 (M2)
6 C-14	8.463	8.471	-0.008	29622947	10.0000	9.96 (M2)
8 C-16	9.005	9.014	-0.009	30759729	10.0000	10.0 (M2)
10 C-18	9.495	9.504	-0.009	31093127	10.0000	9.96 (M2)
M 11 Alip C9-C18				176683007	60.0000	59.7
12 C-19	9.726	9.774	-0.048	31065095	10.0000	10.0 (M2)
13 C-20	9.950	9.957	-0.007	31463953	10.0000	10.1 (M2)
\$ 15 Chlorooctadecane	10.165	10.217	-0.052	27917627	10.0000	10.1 (M2)
16 C-22	10.379	10.384	-0.005	31603189	10.0000	10.1 (M2)
18 C-24	10.792	10.796	-0.004	31828188	10.0000	10.2 (M2)
20 C-26	11.219	11.223	-0.004	31991568	10.0000	10.2 (M2)

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
=====	==	=====	=====	=====	=====	=====
22 C-28	11.688	11.724	-0.036	31603121	10.0000	10.1 (M2)
115 C-30	12.243	12.250	-0.007	31878310	10.0000	10.1 (AM2)
114 C-36	15.117	15.144	-0.027	30029788	10.0000	10.2 (AM2)
M 24 Alip C19-C36				251463212	80.0000	81.0

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Date : 03-NOV-2011 13:18

Client ID: 1 84-15-4

Sample Info: 1202*1 84-16-1

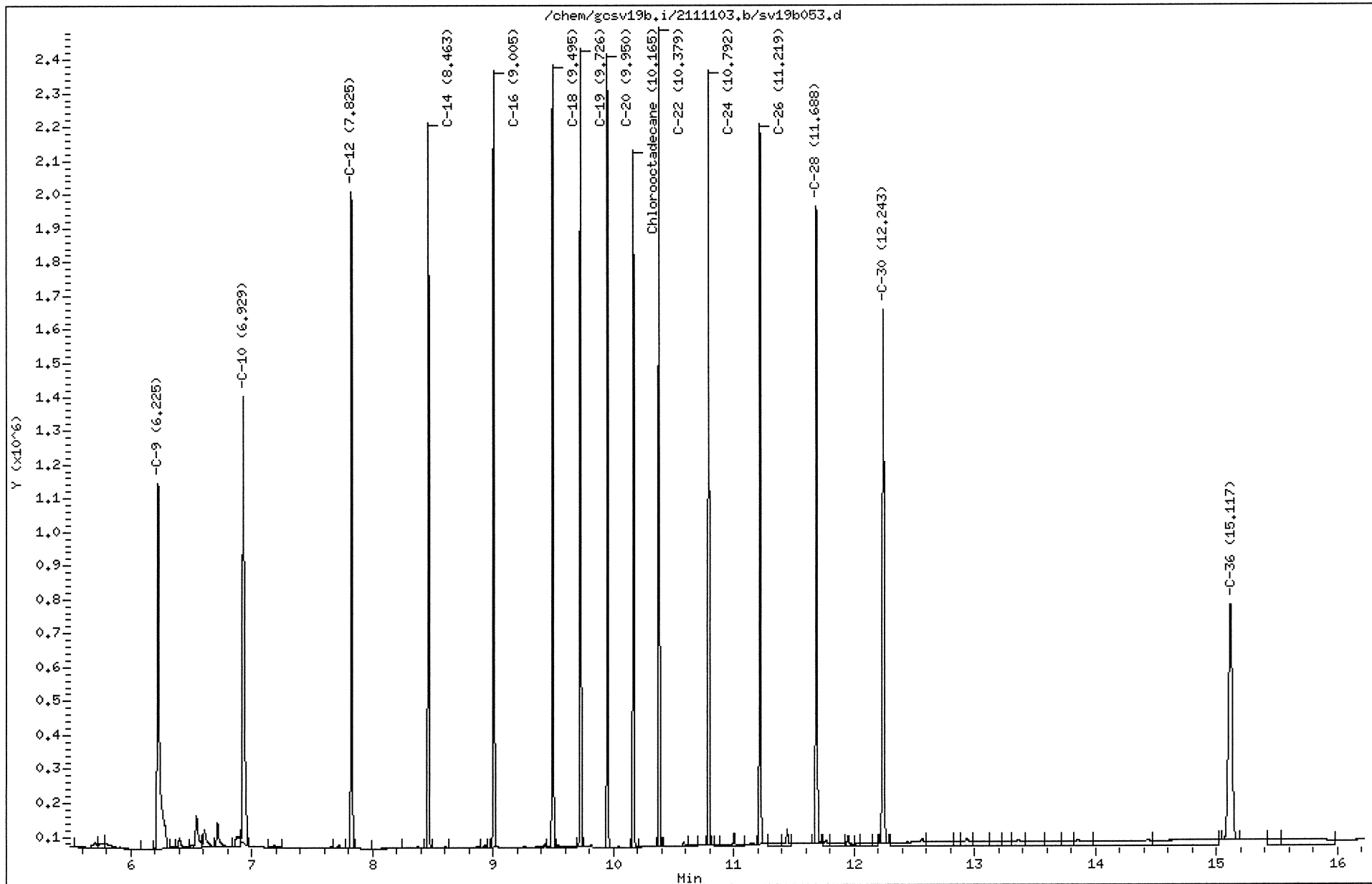
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gcsv19b.i

Operator: smh

Column diameter: 0.25

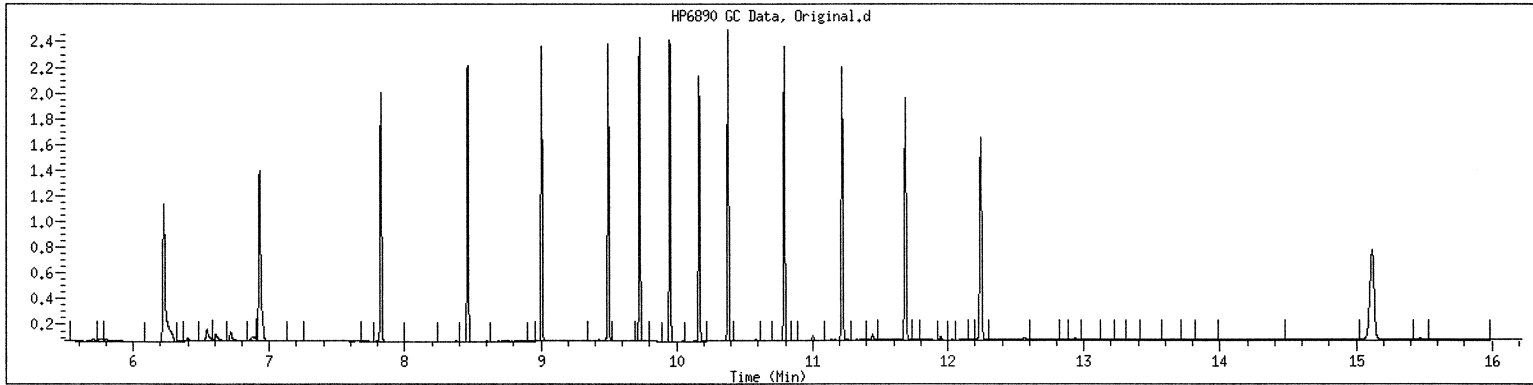


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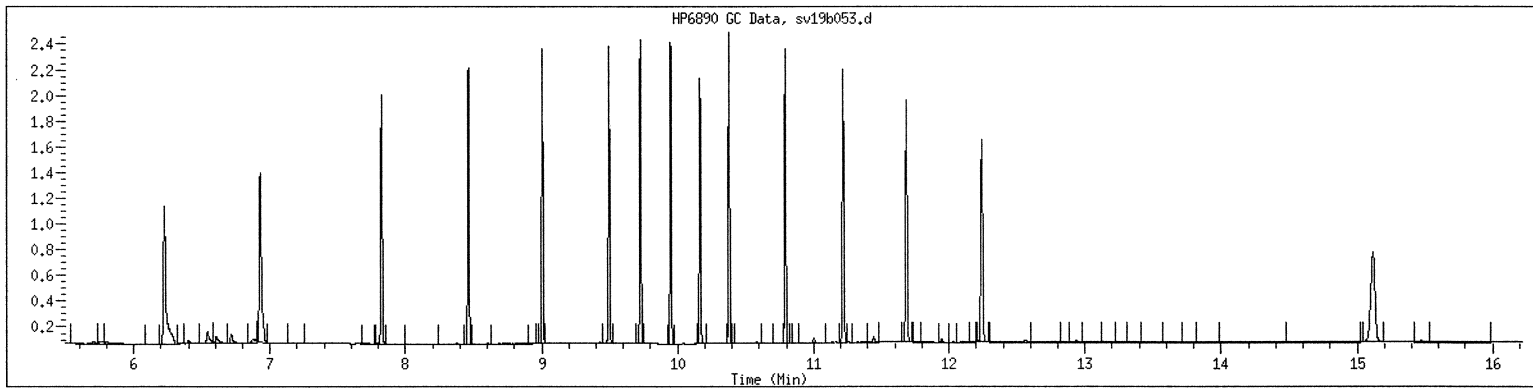
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1202 SampleType : CALIB_2
Injection Date: 11/03/2011 13:18 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1202*1 84-16-1
Misc Info :
Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111103.b/sv19b054.d
 Lab Smp Id: 1203 Client Smp ID: 1 84-15-4
 Inj Date : 03-NOV-2011 13:42
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1203*1 84-16-1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 09:16 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:42 Cal File: sv19b054.d
 Als bottle: 54 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 C-9	6.230	6.232	-0.002	133779709	50.0000	47.9
2 C-10	6.931	6.929	0.002	135883716	50.0000	48.9
4 C-12	7.828	7.833	-0.005	138223627	50.0000	48.3
6 C-14	8.466	8.471	-0.005	143117588	50.0000	48.7
8 C-16	9.008	9.014	-0.006	147808492	50.0000	48.7
10 C-18	9.497	9.504	-0.007	149338101	50.0000	48.5
M 11 Alip C9-C18				848151233	300.000	291
12 C-19	9.729	9.774	-0.045	149108539	50.0000	48.7
13 C-20	9.951	9.957	-0.006	150914449	50.0000	48.9
\$ 15 Chlorooctadecane	10.165	10.217	-0.052	136178585	50.0000	49.5
16 C-22	10.378	10.384	-0.006	152049887	50.0000	49.1
18 C-24	10.789	10.796	-0.007	154912784	50.0000	49.6
20 C-26	11.216	11.223	-0.007	156048078	50.0000	49.7

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
=====	==	=====	=====	=====	=====	=====
22 C-28	11.684	11.724	-0.040	154342550	50.0000	49.6
115 C-30	12.240	12.250	-0.010	155633447	50.0000	49.7 (A)
114 C-36	15.131	15.144	-0.013	147575152	50.0000	50.1 (A)
M 24 Alip C19-C36				1220584886	400.000	395

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Date : 03-NOV-2011 13:42

Client ID: 1 84-15-4

Instrument: gcsv19b.i

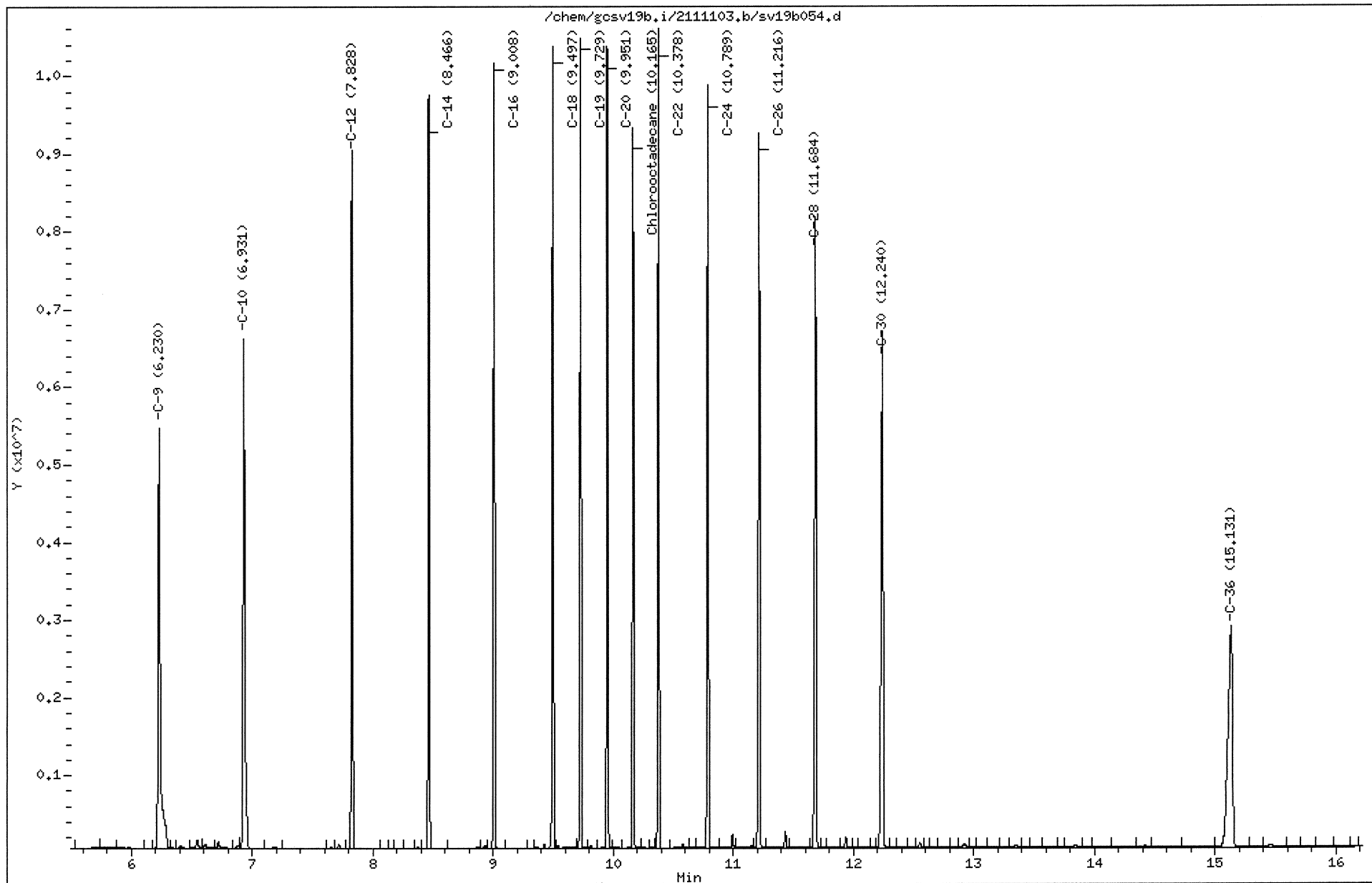
Sample Info: 1203*1 84-16-1

Operator: smh

Volume Injected (uL): 1.0

Column diameter: 0.25

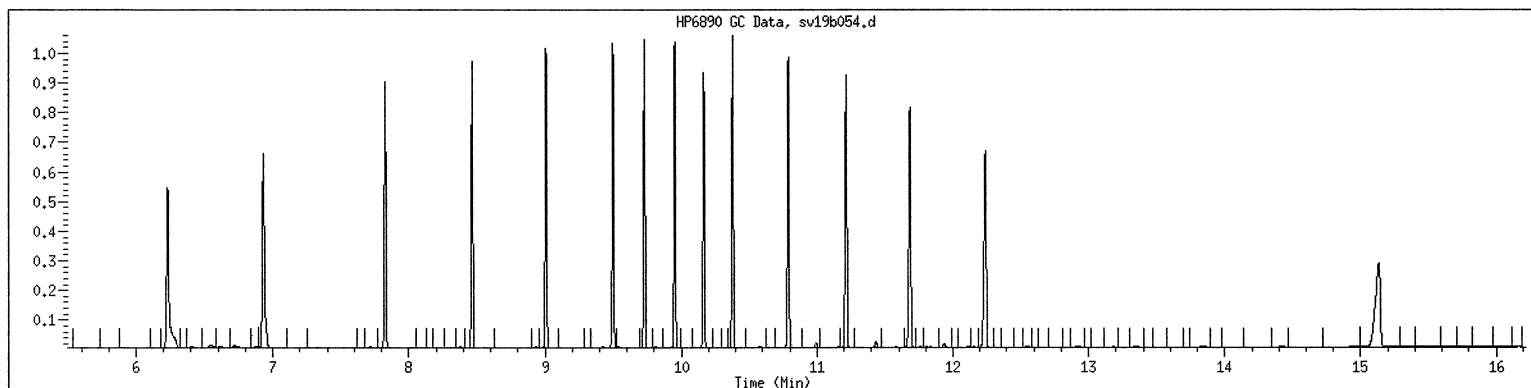
Column phase: DB-5MS-30M



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1203 SampleType : CALIB_3
Injection Date: 11/03/2011 13:42 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1203*1 84-16-1
Misc Info :
Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmaseph



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111103.b/sv19b055.d
 Lab Smp Id: 1204 Client Smp ID: 1 84-15-4
 Inj Date : 03-NOV-2011 14:06
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1204*1 84-16-1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 09:16 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:06 Cal File: sv19b055.d
 Als bottle: 55 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 C-9	6.234	6.232	0.002	267905092	100.000	96.9
2 C-10	6.936	6.929	0.007	275258180	100.000	99.2
4 C-12	7.831	7.833	-0.002	277484130	100.000	97.7
6 C-14	8.469	8.471	-0.002	286298081	100.000	98.1
8 C-16	9.012	9.014	-0.002	297290630	100.000	98.4
10 C-18	9.502	9.504	-0.002	301232611	100.000	98.4
M 11 Alip C9-C18				1705468724	600.000	589
12 C-19	9.733	9.774	-0.041	301524643	100.000	98.8
13 C-20	9.957	9.957	0.000	305126115	100.000	99.1
\$ 15 Chlorooctadecane	10.172	10.217	-0.045	277140629	100.000	100
16 C-22	10.385	10.384	0.001	307318934	100.000	99.5
18 C-24	10.798	10.796	0.002	312420640	100.000	100
20 C-26	11.227	11.223	0.004	315354910	100.000	100

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
=====	==	=====	=====	=====	=====	=====
22 C-28	11.697	11.724	-0.027	312584380	100.000	100
115 C-30	12.256	12.250	0.006	315370277	100.000	100 (A)
114 C-36	15.168	15.144	0.024	296156565	100.000	100 (A)
M 24 Alip C19-C36				2465856464	800.000	799

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Date : 03-NOV-2011 14:06

Client ID: 1 84-15-4

Instrument: gcsv19b.i

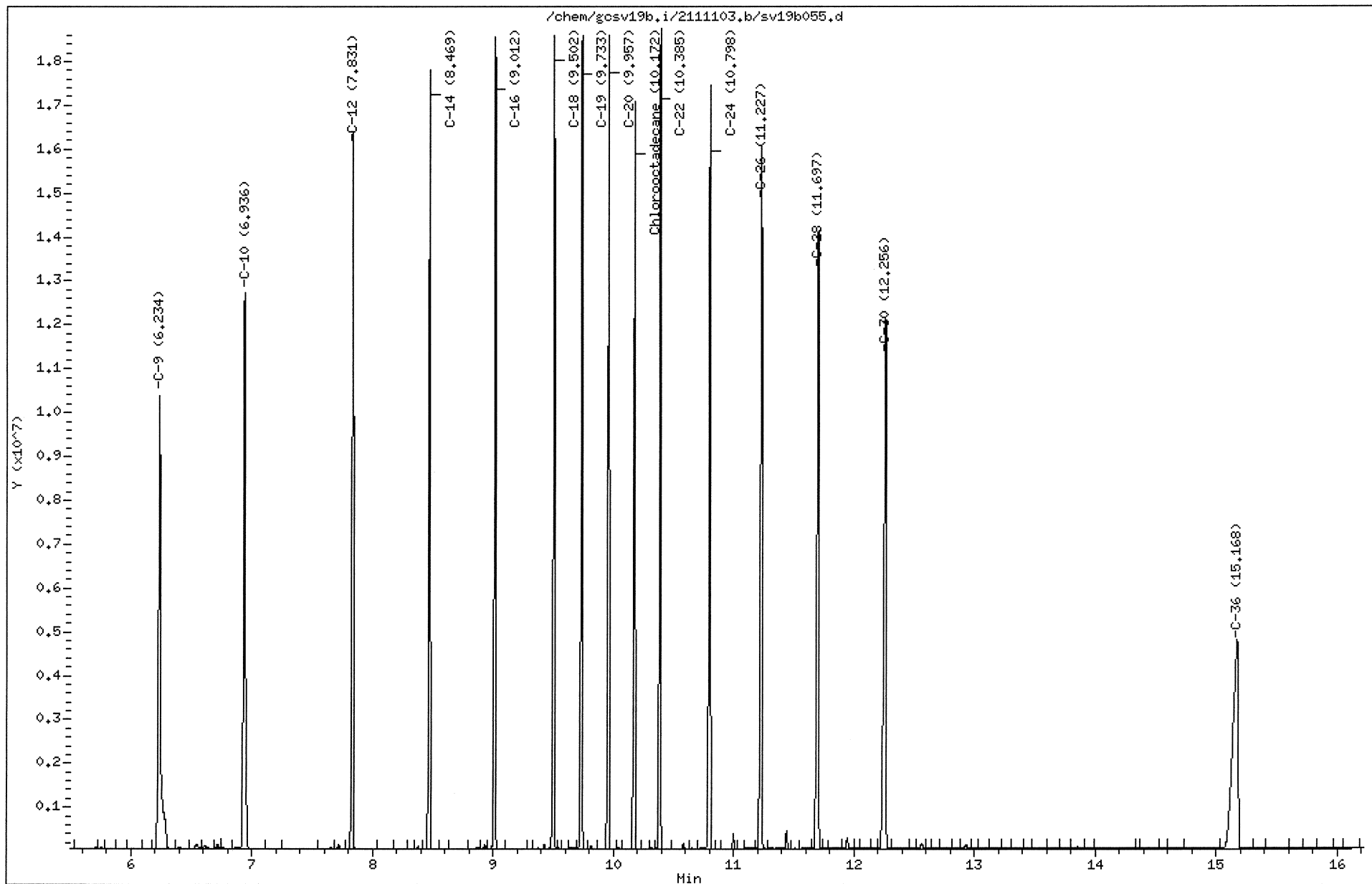
Sample Info: 1204*1 84-16-1

Volume Injected (uL): 1.0

Operator: smh

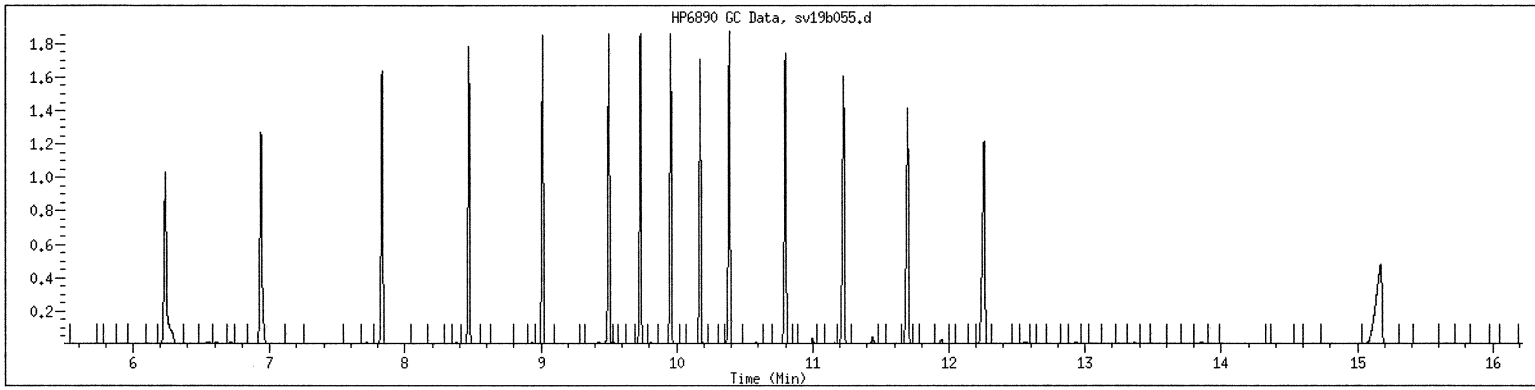
Column phase: DB-5MS-30M

Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID	: 1204	SampleType	: CALIB_4
Injection Date	: 11/03/2011 14:06	Instrument	: gcsv19b.i
Operator	: smh		
Sample Info	: 1204*1 84-16-1		
Misc Info	:		
Method	: /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m		
Dilution	: 1.00		
Matrix	: WATER		
Integrator	: HP Genie	Compound Sublist:	ALmasseph



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111103.b/sv19b056.d
 Lab Smp Id: 1205 Client Smp ID: 1 84-15-4
 Inj Date : 03-NOV-2011 14:30
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1205*1 84-16-1
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
 Meth Date : 08-Nov-2011 09:16 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 56 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 C-9	6.235	6.232	0.003	507851786	200.000	187
2 C-10	6.940	6.929	0.011	520005449	200.000	190
4 C-12	7.836	7.833	0.003	528388238	200.000	189
6 C-14	8.473	8.471	0.002	543318717	200.000	189
8 C-16	9.016	9.014	0.002	566851761	200.000	190
10 C-18	9.505	9.504	0.001	573206156	200.000	190
M 11 Alip C9-C18				3239622107	1200.00	1130
12 C-19	9.736	9.774	-0.038	575420346	200.000	191
13 C-20	9.959	9.957	0.002	583100339	200.000	191
\$ 15 Chlorooctadecane	10.174	10.217	-0.043	533215722	200.000	195
16 C-22	10.386	10.384	0.002	588506366	200.000	192
18 C-24	10.798	10.796	0.002	599716399	200.000	194
20 C-26	11.226	11.223	0.003	606614444	200.000	194

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
=====	==	=====	=====	=====	=====	=====
22 C-28	11.698	11.724	-0.026	603997432	200.000	195
115 C-30	12.259	12.250	0.009	609448655	200.000	195 (A)
114 C-36	15.188	15.144	0.044	565185453	200.000	193 (A)
M 24 Alip C19-C36				4731989434	1600.00	1550

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Date : 03-NOV-2011 14:30

Client ID: 1 84-15-4

Sample Info: 1205*1 84-16-1

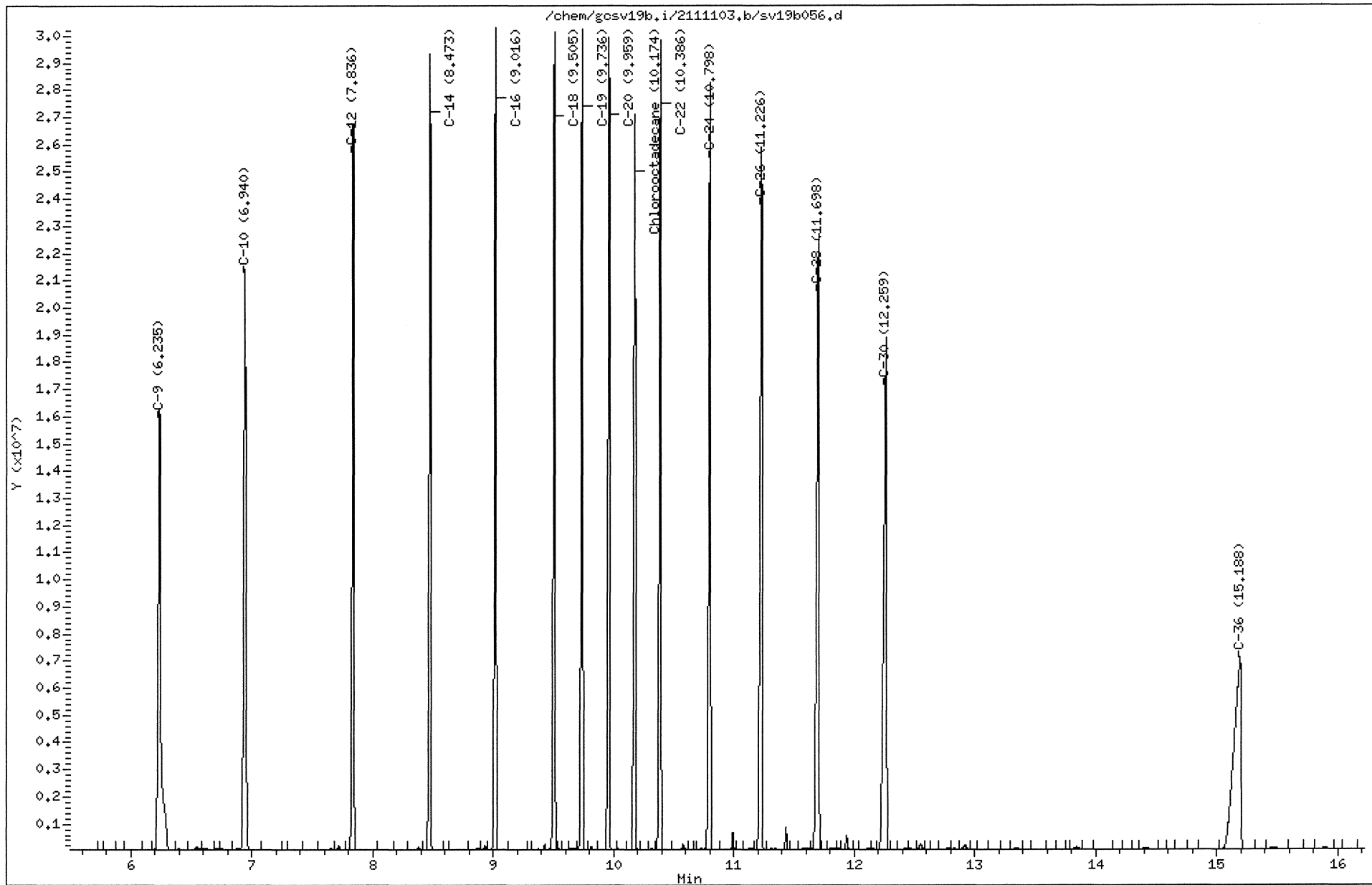
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gcsv19b.i

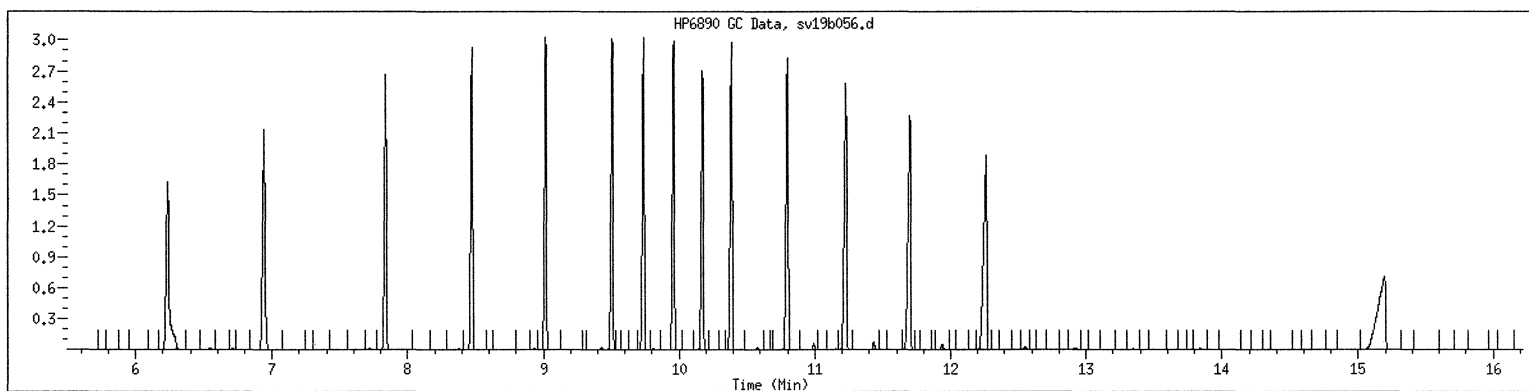
Operator: smh

Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1205 SampleType : CALIB_5
Injection Date: 11/03/2011 14:30 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1205*1 84-16-1
Misc Info :
Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

GCAL, Inc.

RECOVERY REPORT

Client Name: Client SDG: 2111103
 Sample Matrix: LIQUID Fraction: SV
 Lab Smp Id: 1600 Client Smp ID: 1 84-16-2
 Level: LOW Operator: smh
 Data Type: GC MULTI COMP SampleType: LCS
 SpikeList File: alphicv-new.spk Quant Type: ESTD
 Sublist File: ALmasseph.sub
 Method File: /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
 Misc Info:

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 C-9	50.0	46.8	93.57	75-125
2 C-10	50.0	48.1	96.14	75-125
4 C-12	50.0	47.6	95.30	75-125
6 C-14	50.0	47.2	94.33	75-125
8 C-16	50.0	47.1	94.27	75-125
10 C-18	50.0	48.3	96.60	75-125
12 C-19	50.0	49.1	98.26	75-125
13 C-20	50.0	49.1	98.17	75-125
16 C-22	50.0	49.5	98.94	75-125
18 C-24	50.0	49.0	97.98	75-125
20 C-26	50.0	49.0	97.97	75-125
22 C-28	50.0	48.7	97.32	75-125
114 C-36	50.0	50.0	100.09	75-125

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 15 Chlorooctadecane	40000	0.00	*	40-140

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111103.b/sv19b057.d
 Lab Smp Id: 1600 Client Smp ID: 1 84-16-2
 Inj Date : 03-NOV-2011 14:54
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1600*1 84-16-2
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
 Meth Date : 04-Nov-2011 09:50 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 57 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1.00000	Volume of sample extracted (mL)
Vt	1.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 C-9	6.229	6.232	-0.003	127218912	46.7830	46.8
2 C-10	6.931	6.929	0.002	131668495	48.0680	48.1
4 C-12	7.828	7.833	-0.005	133484208	47.6481	47.6
6 C-14	8.466	8.471	-0.005	135740381	47.1626	47.2
8 C-16	9.008	9.014	-0.006	140615142	47.1372	47.1
10 C-18	9.497	9.504	-0.007	145930395	48.3007	48.3
M 11 Alip C9-C18				814657533	285.135	285
12 C-19	9.728	9.774	-0.046	148243248	49.1321	49.1
13 C-20	9.950	9.957	-0.007	149480953	49.0856	49.1
16 C-22	10.377	10.384	-0.007	151407787	49.4692	49.5
18 C-24	10.788	10.796	-0.008	151784501	48.9880	49.0
20 C-26	11.213	11.223	-0.010	152831618	48.9831	49.0
22 C-28	11.681	11.724	-0.043	150648000	48.6591	48.7

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
=====	==	=====	=====	=====	=====	=====
115 C-30	12.224	12.250	-0.026	863815	0.27683	0.277 (A)
114 C-36	15.130	15.144	-0.014	146419842	50.0472	50.0 (A)
M 24 Alip C19-C36				1051679764	343.635	344

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Date : 03-NOV-2011 14:54

Client ID: 1 84-16-2

Instrument: gcsv19b.i

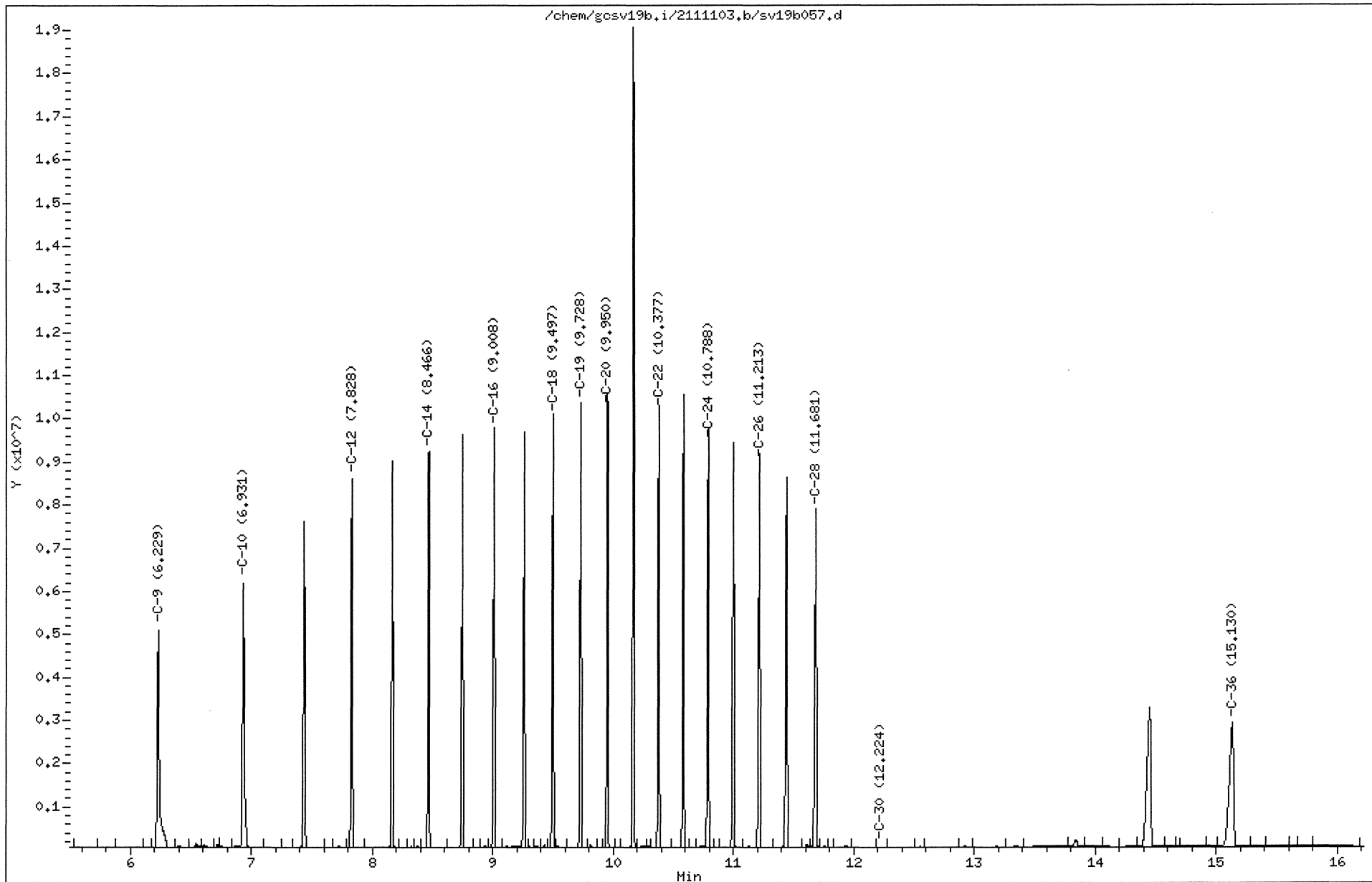
Sample Info: 1600*1 84-16-2

Volume Injected (uL): 1.0

Operator: smh

Column phase: DB-5MS-30M

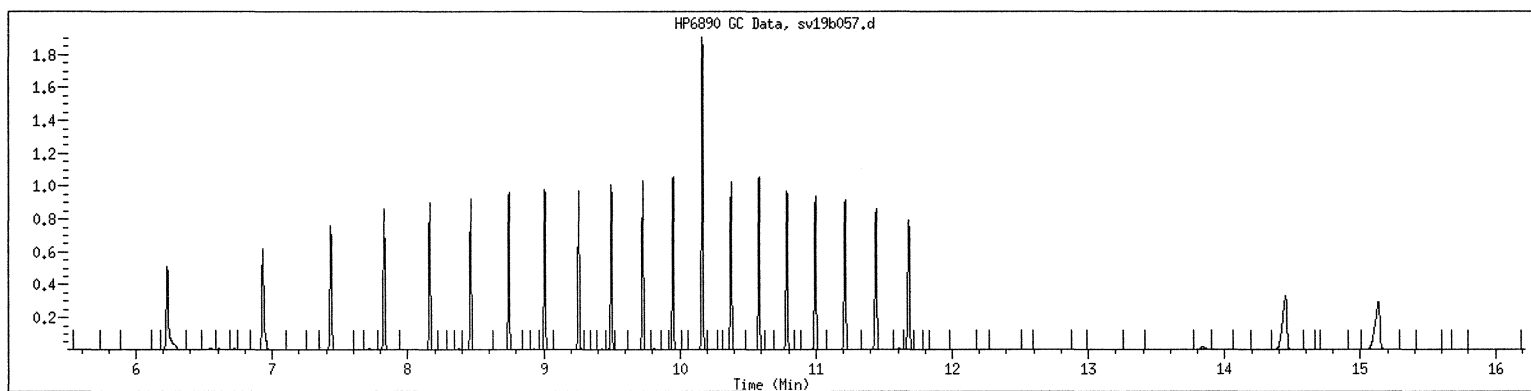
Column diameter: 0.25



211110421 162

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1600 SampleType : LCS
Injection Date: 11/03/2011 14:54 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1600*1 84-16-2
Misc Info :
Method : /var/chem/gcsv19b.i/2111103.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-NOV-2011 15:55
 End Cal Date : 03-NOV-2011 14:30
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP Genie
 Method file : /var/chem/gcsv19b.i/2111110.b/AROEPMass.m
 Cal Date : 11-Nov-2011 16:02 dlb
 Curve Type : Average

Calibration File Names:

Level 1: /var/chem/gcsv19b.i/2111103.b/sv19b052s.d
 Level 2: /var/chem/gcsv19b.i/2111103.b/sv19b053s.d
 Level 3: /var/chem/gcsv19b.i/2111103.b/sv19b054s.d
 Level 4: /var/chem/gcsv19b.i/2111103.b/sv19b055s.d
 Level 5: /var/chem/gcsv19b.i/2111103.b/sv19b056s.d

Compound	1.000 Level 1	10.000 Level 2	50.000 Level 3	100.000 Level 4	200.000 Level 5	RRF	% RSD
1 Naphthalene	2871371	2880452	2795766	2859339	2803867	2842159	1.389
2 2-Methylnaphthalene	2390073	2394998	2345540	2406153	2358179	2378988	1.086
4 Acenaphthylene	2742978	2787580	2735871	2801782	2748122	2763267	1.065
6 Acenaphthene	2939138	2974500	2797376	2847632	2992117	2910153	2.892
7 Fluorene	2698627	2763527	2759247	2833327	2801195	2771184	1.825
8 Phenanthrene	2595622	2723658	2778901	2849934	2855307	2760684	3.879
9 Anthracene	2513243	2630537	2655916	2746767	2723523	2653997	3.464
12 Fluoranthene	2615148	2778457	2865217	2923634	2923247	2821141	4.592
13 Pyrene	2622128	2808614	2905331	2966543	2974785	2855480	5.126
14 Benzo(a)Anthracene	2463921	2659230	2834632	2942403	2985058	2777049	7.762
15 Chrysene	2577178	2691296	2772251	2844436	2855699	2748172	4.223
16 Benzo(b)Fluoranthene	2542088	2741276	2869331	2969808	2944332	2813367	6.247
17 Benzo(k)Fluoranthene	2542088	2741276	2869331	2969808	2944332	2813367	6.247
18 Benzo(a)Pyrene	2459311	2662945	2905156	2960554	2875461	2772685	7.515
19 Indo(1,2,3cd)Pyrene	2354342	2617747	2836757	2866551	2719863	2679052	7.715
20 Dibenzo(a,h)Anthracene	2354342	2617747	2836757	2866551	2719863	2679052	7.715
21 Benzo(g,h,i)Perylene	2487409	2704307	2942094	3003707	2752450	2777993	7.386
M 22 Arom C11-C22	2574648	2716361	2794440	2862290	2822200	2753988	4.124
23 Unadjusted Arom C11-C22	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 113 Total Surrogate Area	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 3 2-Fluorobiphenyl	2473008	2477779	2421128	2479969	2435554	2457488	1.107

GCAL, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-NOV-2011 15:55
End Cal Date : 03-NOV-2011 14:30
Quant Method : ESTD
Origin : Disabled
Target Version : 3.50
Integrator : HP Genie
Method file : /var/chem/gcsv19b.i/2111110.b/AROEPHmass.m
Cal Date : 11-Nov-2011 16:02 dlb
Curve Type : Average

	1.000	10.000	50.000	100.000	200.000	RRF	% RSD
Compound	Level 1	Level 2	Level 3	Level 4	Level 5		
\$ 5 2-Bromonaphthalene	1570168	1562462	1600777	1661330	1449154	1568778	4.932
\$ 10 O-Terphenyl	2900971	2972915	2936779	2979088	2954226	2948796	1.067
\$ 11 Chloro-octadecane	2731973	2792662	2730816	2775185	2666865	2739500	1.780

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111102.b/sv19b052.d
Lab Smp Id: 1201 Client Smp ID: 1 84-12-8
Inj Date : 02-NOV-2011 15:55
Operator : smh Inst ID: gcsv19b.i
Smp Info : 1201*1 84-12-8
Misc Info :
Comment :
Method : /var/chem/gcsv19b.i/2111102.b/AROEPhmass.m
Meth Date : 08-Nov-2011 08:35 dlb Quant Type: ESTD
Cal Date : 02-NOV-2011 15:55 Cal File: sv19b052.d
Als bottle: 52 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds					AMOUNTS	
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 Naphthalene	7.877	7.878	-0.001	2871371	1.00000	1.00 (M2)
2 2-Methylnaphthalene	8.263	8.261	0.002	2390073	1.00000	1.00 (M2)
\$ 3 2-Fluorobiphenyl	8.450	8.450	0.000	2473008	1.00000	1.00 (M2)
4 Acenaphthylene	8.761	8.760	0.001	2742978	1.00000	1.00 (M2)
\$ 5 2-Bromonaphthalene	8.833	8.832	0.001	1570168	1.00000	1.00 (M2)
6 Acenaphthene	8.851	8.850	0.001	2939138	1.00000	1.00 (M2)
7 Fluorene	9.126	9.128	-0.002	2698627	1.00000	1.00 (M2)
8 Phenanthrene	9.653	9.652	0.001	2595622	1.00000	1.00 (M2)
9 Anthracene	9.681	9.680	0.001	2513243	1.00000	1.00 (M2)
\$ 10 O-Terphenyl	9.818	9.819	-0.001	2900971	1.00000	1.00 (M2)
12 Fluoranthene	10.323	10.322	0.001	2615148	1.00000	1.00 (M2)
13 Pyrene	10.463	10.461	0.002	2622128	1.00000	1.00 (M2)
14 Benzo(a)Anthracene	11.206	11.208	-0.002	2463921	1.00000	1.00 (M2)

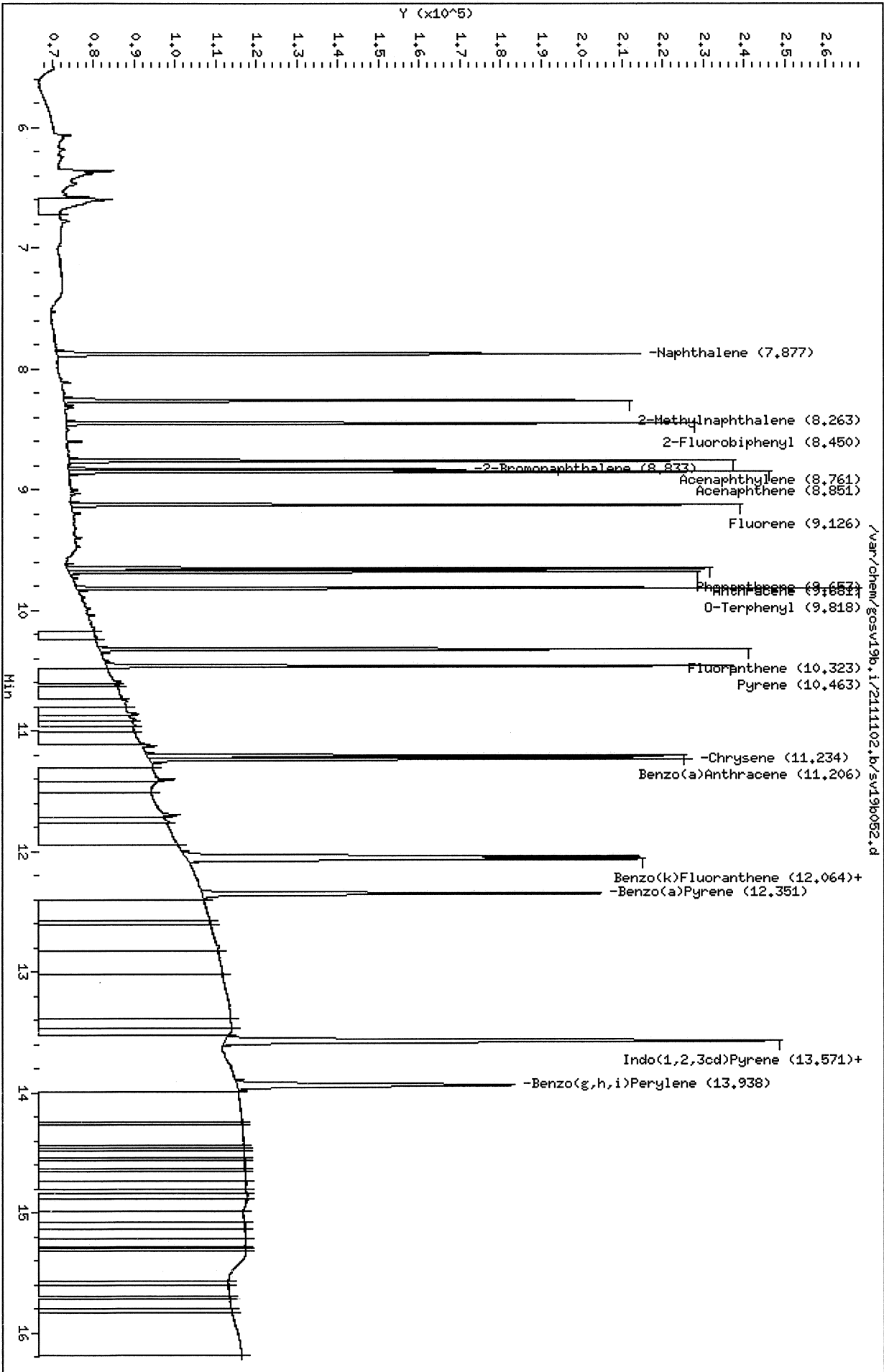
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
-----	==	=====	=====	=====	=====	=====
15 Chrysene	11.234	11.232	0.002	2577178	1.00000	1.00 (M2)
16 Benzo(b)Fluoranthene	12.064	12.062	0.002	5084176	2.00000	2.00 (M2)
17 Benzo(k)Fluoranthene	12.064	12.062	0.002	5084176	2.00000	2.00 (M2)
18 Benzo(a)Pyrene	12.351	12.350	0.001	2459311	1.00000	1.00 (M2)
19 Indo(1,2,3cd)Pyrene	13.571	13.570	0.001	4708685	2.00000	2.00 (M2)
20 Dibenzo(a,h)Anthracene	13.571	13.570	0.001	4708685	2.00000	2.00 (M2)
21 Benzo(g,h,i)Perylene	13.938	13.939	-0.001	2487409	1.00000	1.00 (M2)
M 22 Arom C11-C22				43769008	17.00000	17.0
M 113 Total Surrogate Area				6944147	0.00000	(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M2- Compound response manually integrated because Target system integrated incorrectly.

Data File: /var/chem/gosv19b.i/2111102.b/sv19b052.d
 Date: 02-NOV-2011 15:55
 Client ID: 1 84-12-8
 Sample Info: 1201x1 84-12-8
 Volume Injected (uL): 1.0
 Column phase: DB-5MS-30M

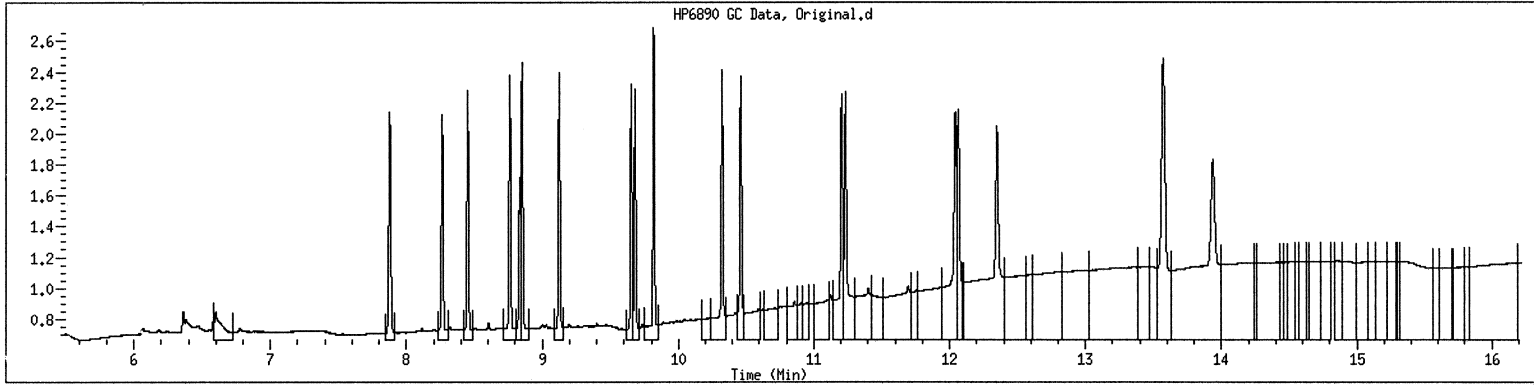
Instrument: gosv19b.i
 Operator: smh
 Column diameter: 0.25



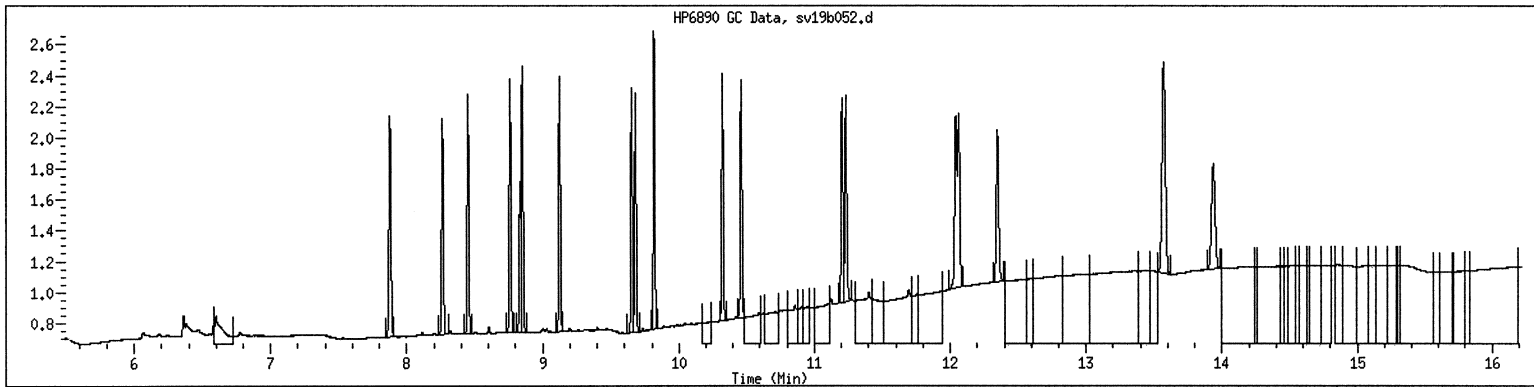
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1201 SampleType : CALIB_1
Injection Date: 11/02/2011 15:55 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1201*1 84-12-8
Misc Info :
Method : /var/chem/gcsv19b.i/2111102.b/AROEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111102.b/sv19b053.d
 Lab Smp Id: 1202 Client Smp ID: 1 84-12-8
 Inj Date : 02-NOV-2011 16:19
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1202*1 84-12-8
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111102.b/AROEPHmass.m
 Meth Date : 08-Nov-2011 08:35 dlb Quant Type: ESTD
 Cal Date : 02-NOV-2011 16:19 Cal File: sv19b053.d
 Als bottle: 53 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 Naphthalene	7.876	7.878	-0.002	28804515	10.0000	10.0 (M2)
2 2-Methylnaphthalene	8.262	8.261	0.001	23949975	10.0000	10.0 (M2)
\$ 3 2-Fluorobiphenyl	8.450	8.450	0.000	24777794	10.0000	10.0 (M2)
4 Acenaphthylene	8.761	8.761	0.000	27875803	10.0000	10.1 (M2)
\$ 5 2-Bromonaphthalene	8.835	8.832	0.003	15624622	10.0000	9.98 (M2)
6 Acenaphthene	8.852	8.851	0.001	29745005	10.0000	10.1 (M2)
7 Fluorene	9.126	9.128	-0.002	27635268	10.0000	10.1 (M2)
8 Phenanthrene	9.654	9.652	0.002	27236585	10.0000	10.2 (M2)
9 Anthracene	9.682	9.681	0.001	26305372	10.0000	10.2 (M2)
\$ 10 O-Terphenyl	9.818	9.819	-0.001	29729146	10.0000	10.1 (M2)
12 Fluoranthene	10.324	10.322	0.002	27784568	10.0000	10.3 (M2)
13 Pyrene	10.463	10.461	0.002	28086137	10.0000	10.3 (M2)
14 Benzo (a) Anthracene	11.206	11.208	-0.002	26592300	10.0000	10.4 (M2)

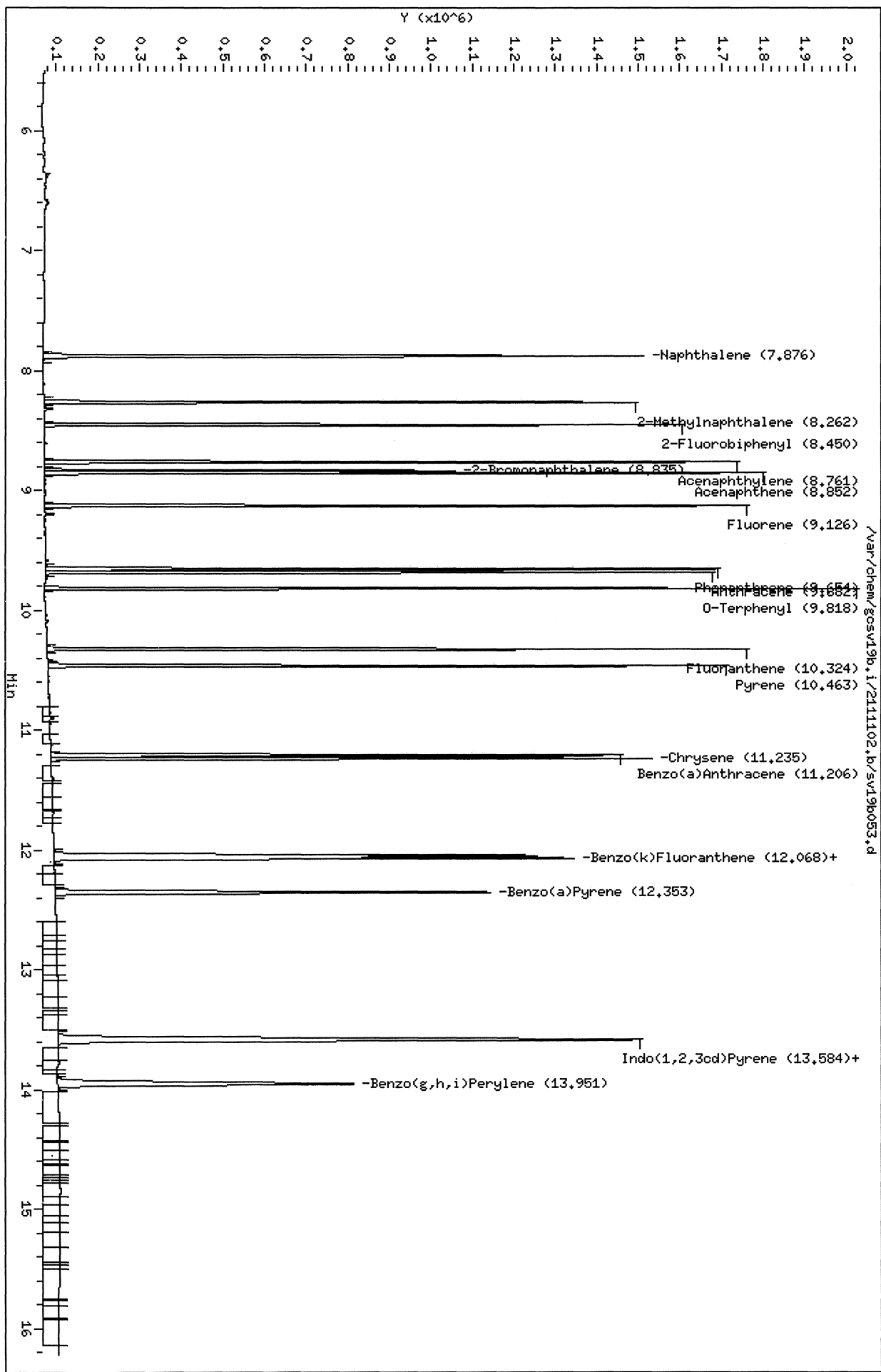
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
15 Chrysene	11.235	11.235	0.000	26912958	10.0000	10.2 (M2)
16 Benzo(b)Fluoranthene	12.068	12.066	0.002	54825513	20.0000	20.8 (M2)
17 Benzo(k)Fluoranthene	12.068	12.066	0.002	54825513	20.0000	20.8 (M2)
18 Benzo(a)Pyrene	12.353	12.351	0.002	26629448	10.0000	10.4 (M2)
19 Indo(1,2,3cd)Pyrene	13.584	13.576	0.008	52354931	20.0000	21.1 (M2)
20 Dibenzo(a,h)Anthracene	13.584	13.576	0.008	52354931	20.0000	21.1 (M2)
21 Benzo(g,h,i)Perylene	13.951	13.945	0.006	27043066	10.0000	10.4 (M2)
M 22 Arom C11-C22				461781444	170.000	175
M 113 Total Surrogate Area				70131562	0.00000	(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M2- Compound response manually integrated because Target system integrated incorrectly.

Data File: /var/chem/gosv19b.i/2111102.b/sv19b053.d
 Date : 02-NDU-2011 16:19
 Client ID: 1 84-12-8
 Sample Info: 1202x1 84-12-8
 Volume Injected (uL): 1.0
 Column phase: DB-SMS-30H

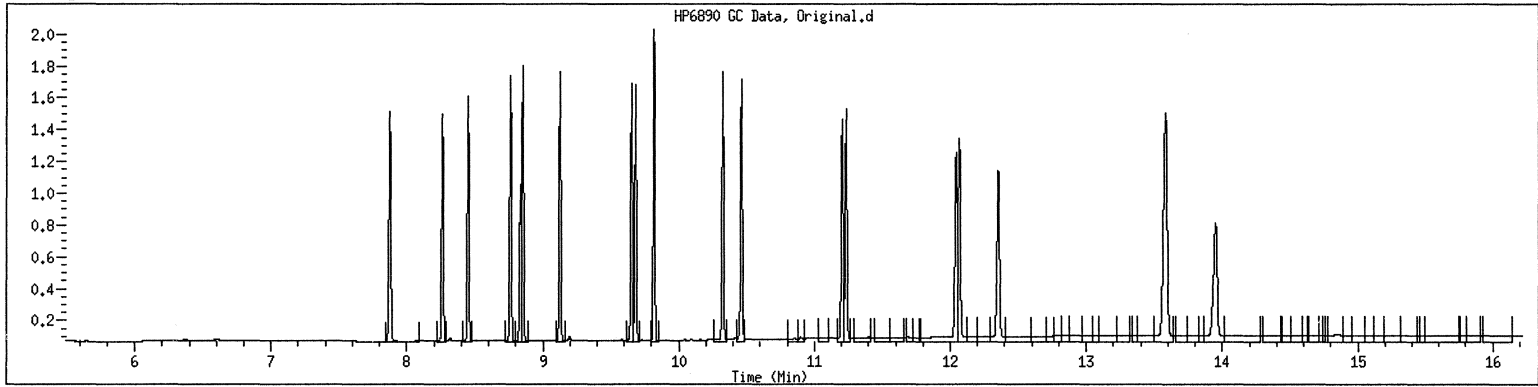
Instrument: gosv19b.i
 Operator: smh
 Column diameter: 0.25



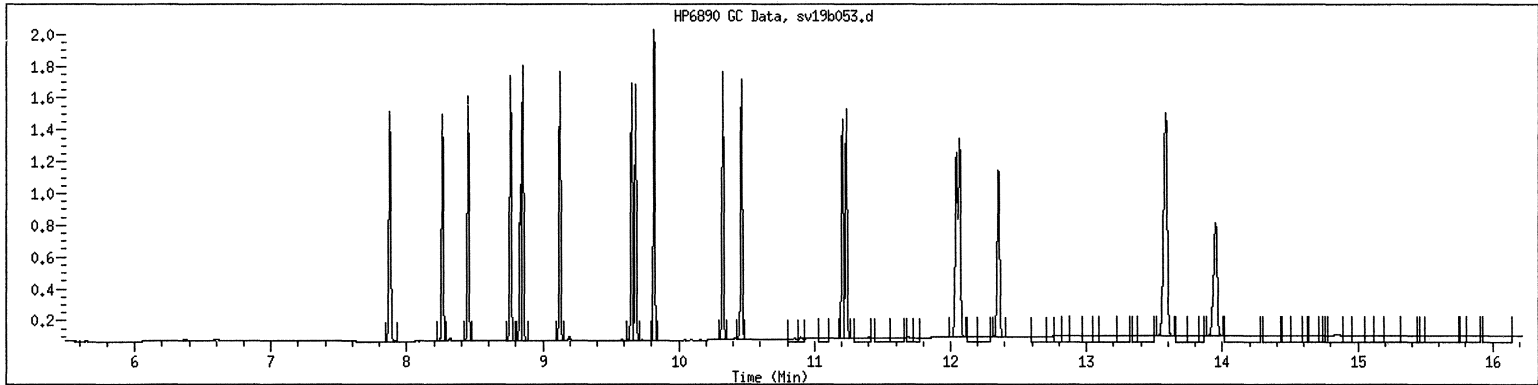
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1202 SampleType : CALIB_2
Injection Date: 11/02/2011 16:19 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1202*1 84-12-8
Misc Info :
Method : /var/chem/gcsv19b.i/2111102.b/AROEPMass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111102.b/sv19b054.d
 Lab Smp Id: 1203 Client Smp ID: 1 84-12-8
 Inj Date : 02-NOV-2011 16:42
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1203*1 84-12-8
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111102.b/AROEPHmass.m
 Meth Date : 08-Nov-2011 08:35 dlb Quant Type: ESTD
 Cal Date : 02-NOV-2011 16:42 Cal File: sv19b054.d
 Als bottle: 54 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 Naphthalene	7.879	7.879	0.000	139788310	50.0000	49.1
2 2-Methylnaphthalene	8.265	8.263	0.002	117276990	50.0000	49.3
\$ 3 2-Fluorobiphenyl	8.453	8.451	0.002	121056403	50.0000	49.3
4 Acenaphthylene	8.765	8.762	0.003	136793555	50.0000	49.6
\$ 5 2-Bromonaphthalene	8.838	8.834	0.004	80038867	50.0000	50.7
6 Acenaphthene	8.857	8.853	0.004	139868814	50.0000	48.2
7 Fluorene	9.130	9.129	0.001	137962328	50.0000	50.3
8 Phenanthrene	9.657	9.654	0.003	138945044	50.0000	51.5
9 Anthracene	9.687	9.683	0.004	132795791	50.0000	51.1
\$ 10 O-Terphenyl	9.820	9.819	0.001	146838940	50.0000	50.0
12 Fluoranthene	10.325	10.323	0.002	143260836	50.0000	52.0
13 Pyrene	10.465	10.463	0.002	145266555	50.0000	52.3
14 Benzo(a)Anthracene	11.207	11.208	-0.001	141731614	50.0000	53.4

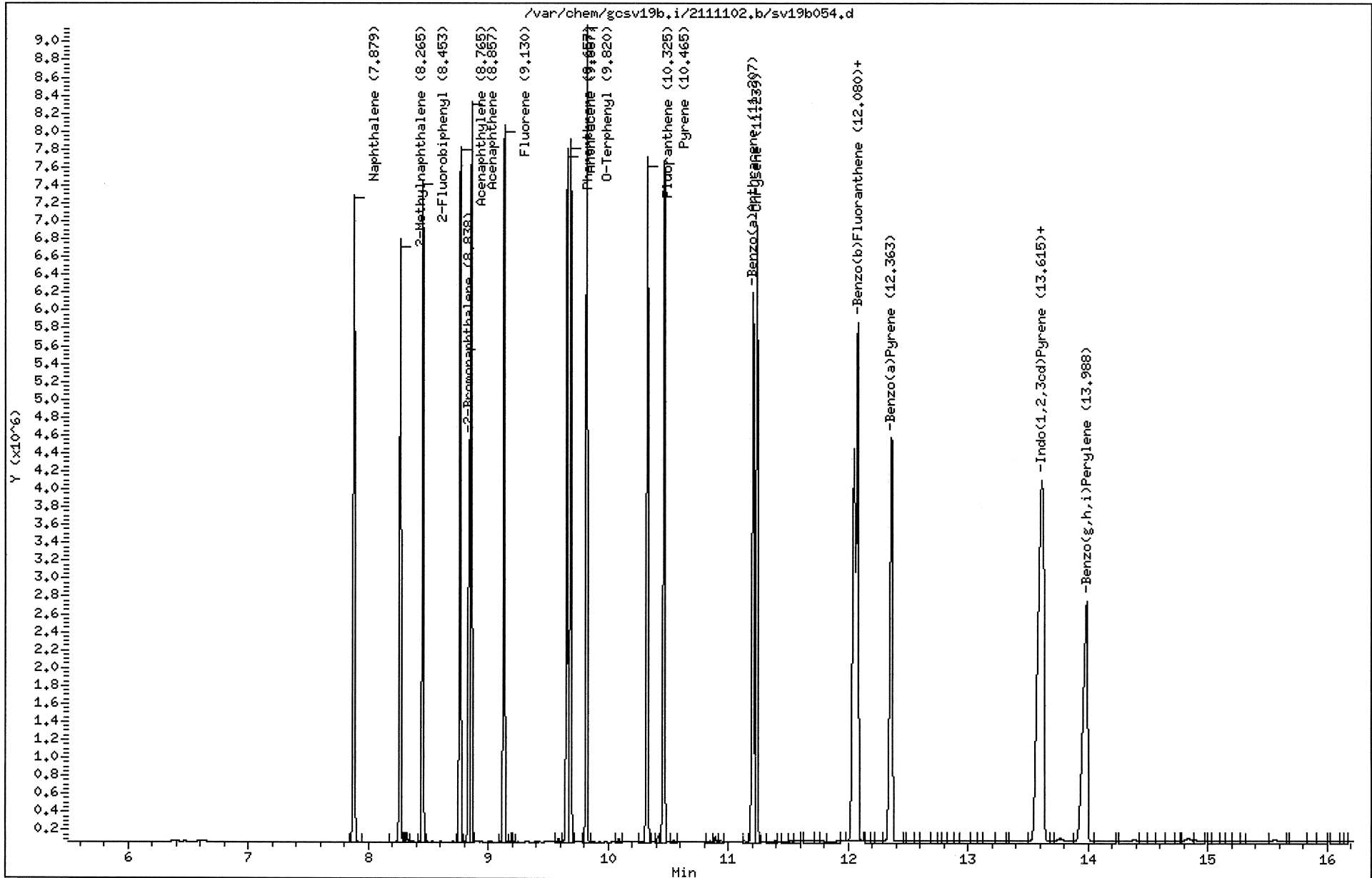
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
-----	--	-----	-----	-----	-----	-----
15 Chrysene	11.239	11.236	0.003	138612563	50.0000	51.7
16 Benzo(b)Fluoranthene	12.080	12.070	0.010	286933061	100.000	106 (M2)
17 Benzo(k)Fluoranthene	12.080	12.070	0.010	286933061	100.000	106 (M2)
18 Benzo(a)Pyrene	12.363	12.355	0.008	145257809	50.0000	54.3
19 Indo(1,2,3cd)Pyrene	13.615	13.589	0.026	283675684	100.000	109
20 Dibenzo(a,h)Anthracene	13.615	13.589	0.026	283675684	100.000	109 (M1)
21 Benzo(g,h,i)Perylene	13.988	13.959	0.029	147104717	50.0000	54.3
M 22 Arom C11-C22				2375273671	850.000	882
M 113 Total Surrogate Area				347934210	0.00000	(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M1- Compound response manually integrated because Target system did not integrate.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Data File: /var/chem/gosv19b.i/2111102.b/sv19b054.d
 Date : 02-NOV-2011 16:42
 Client ID: 1 84-12-8
 Sample Info: 1203*1 84-12-8
 Volume Injected (uL): 1.0
 Column phase: DB-5MS-30M

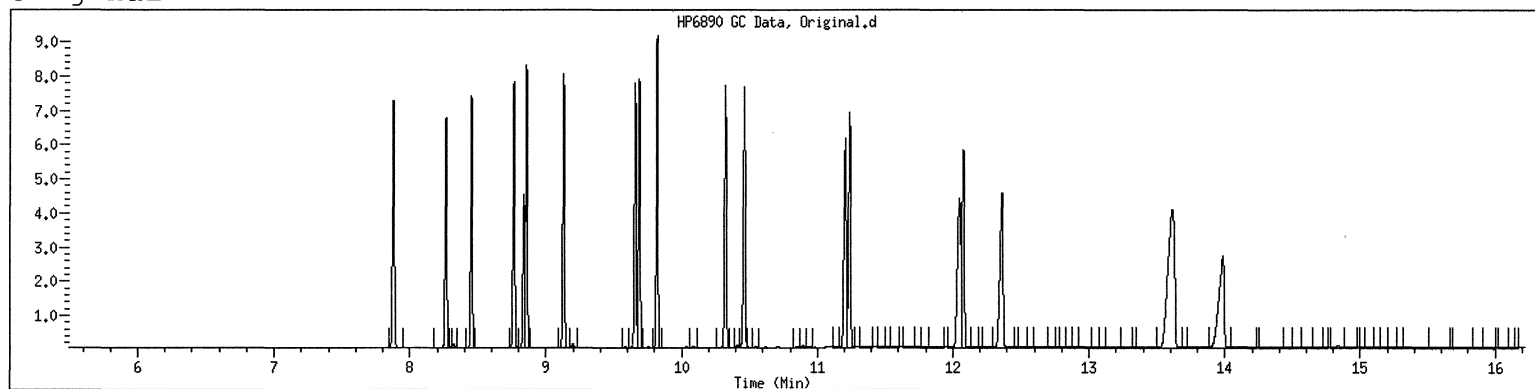
Instrument: gosv19b.i
 Operator: smh
 Column diameter: 0.25



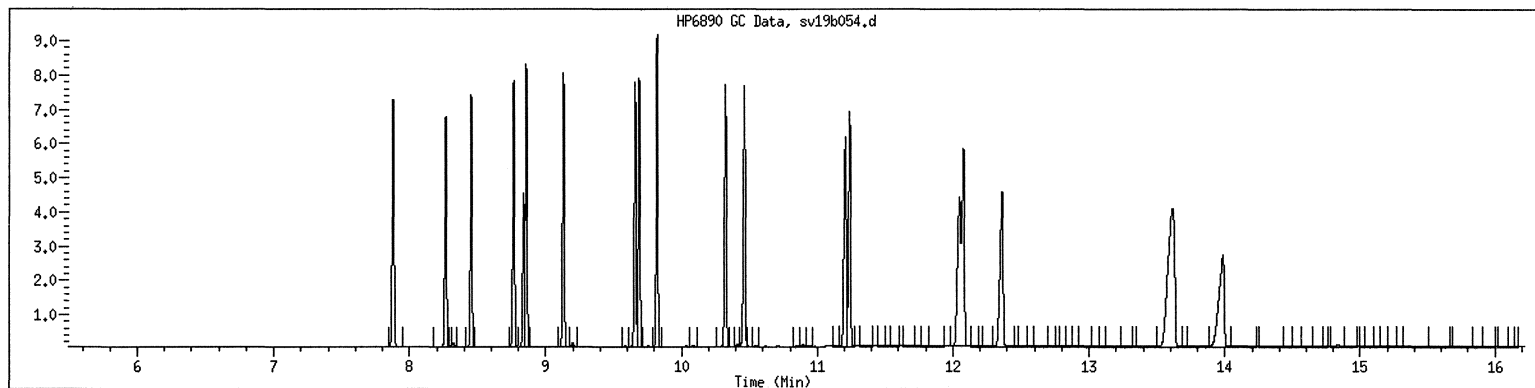
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1203 SampleType : CALIB_3
Injection Date: 11/02/2011 16:42 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1203*1 84-12-8
Misc Info :
Method : /var/chem/gcsv19b.i/2111102.b/AROEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111102.b/sv19b055.d
 Lab Smp Id: 1204 Client Smp ID: 1 84-12-8
 Inj Date : 02-NOV-2011 17:07
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1204*1 84-12-8
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111102.b/AROEPHmass.m
 Meth Date : 08-Nov-2011 08:35 dlb Quant Type: ESTD
 Cal Date : 02-NOV-2011 17:07 Cal File: sv19b055.d
 Als bottle: 55 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 Naphthalene	7.882	7.879	0.003	285933881	100.000	100
2 2-Methylnaphthalene	8.269	8.264	0.005	240615323	100.000	101
\$ 3 2-Fluorobiphenyl	8.457	8.453	0.004	247996907	100.000	101
4 Acenaphthylene	8.769	8.764	0.005	280178162	100.000	101
\$ 5 2-Bromonaphthalene	8.843	8.836	0.007	166132975	100.000	104
6 Acenaphthene	8.864	8.855	0.009	284763163	100.000	98.5
7 Fluorene	9.136	9.131	0.005	283332686	100.000	103
8 Phenanthrene	9.663	9.656	0.007	284993363	100.000	104
9 Anthracene	9.695	9.685	0.010	274676746	100.000	104
\$ 10 O-Terphenyl	9.826	9.821	0.005	297908777	100.000	101
12 Fluoranthene	10.334	10.325	0.009	292363394	100.000	105
13 Pyrene	10.475	10.465	0.010	296654255	100.000	105
14 Benzo(a)Anthracene	11.219	11.211	0.008	294240261	100.000	108

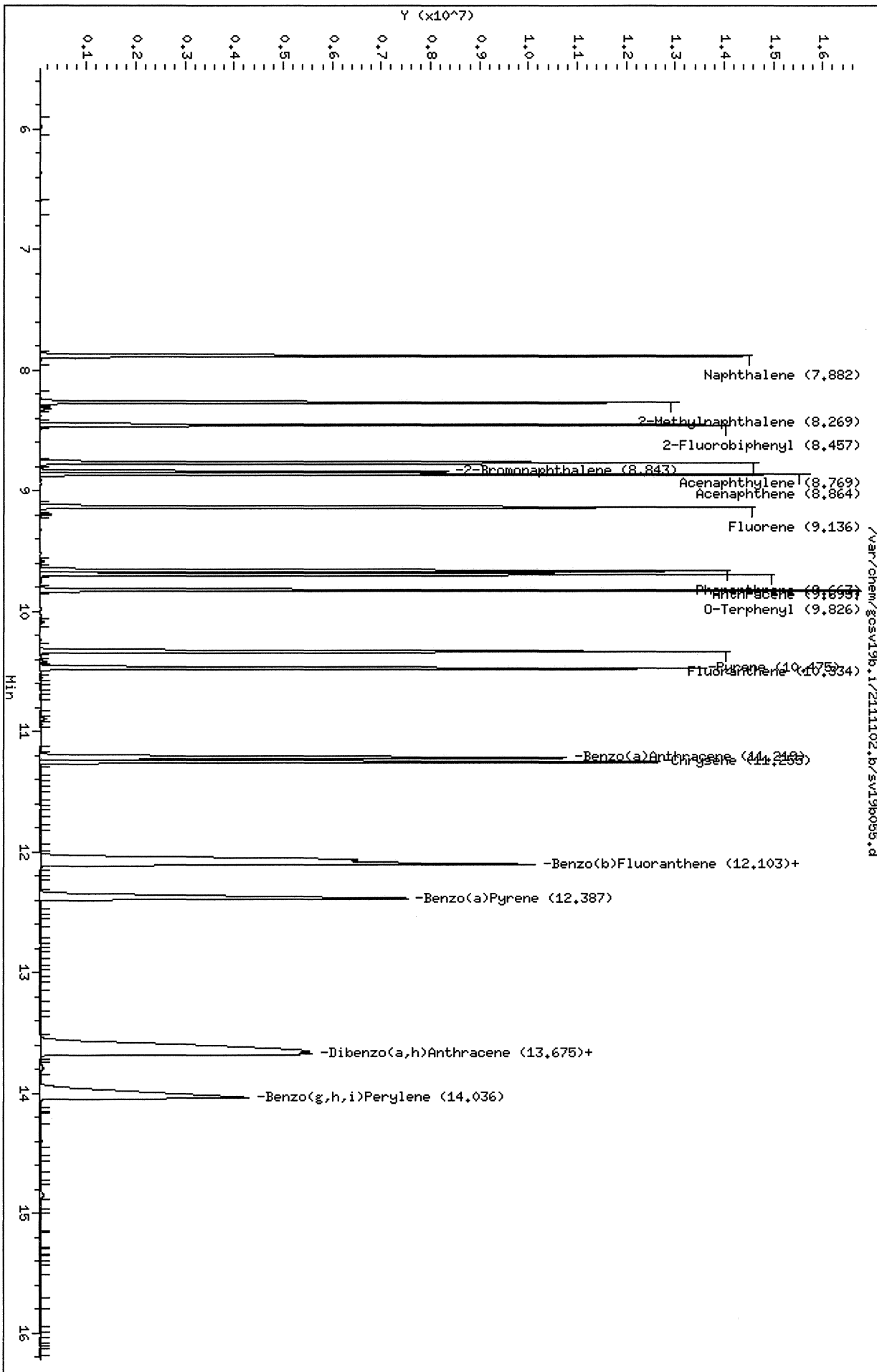
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
15 Chrysene	11.255	11.240	0.015	284443626	100.000	105
16 Benzo(b)Fluoranthene	12.103	12.078	0.025	593961569	200.000	214 (AM2)
17 Benzo(k)Fluoranthene	12.103	12.078	0.025	593961569	200.000	214 (AM2)
18 Benzo(a)Pyrene	12.387	12.363	0.024	296055391	100.000	108
19 Indo(1,2,3cd)Pyrene	13.675	13.610	0.065	573310212	200.000	215 (AM2)
20 Dibenzo(a,h)Anthracene	13.675	13.610	0.065	573310212	200.000	215 (AM2)
21 Benzo(g,h,i)Perylene	14.036	13.979	0.057	300370678	100.000	108
M 22 Arom C11-C22				4865892710	1700.00	1780
M 113 Total Surrogate Area				712038659	0.00000	(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Data File: /var/chem/gosv19b.i/2111102.b/sv19b055.d
Date : 02-NOV-2011 17:07
Client ID: 1 84-12-8
Sample Info: 1204x1 84-12-8
Volume Injected (uL): 1.0
Column phase: DB-SMS-30H

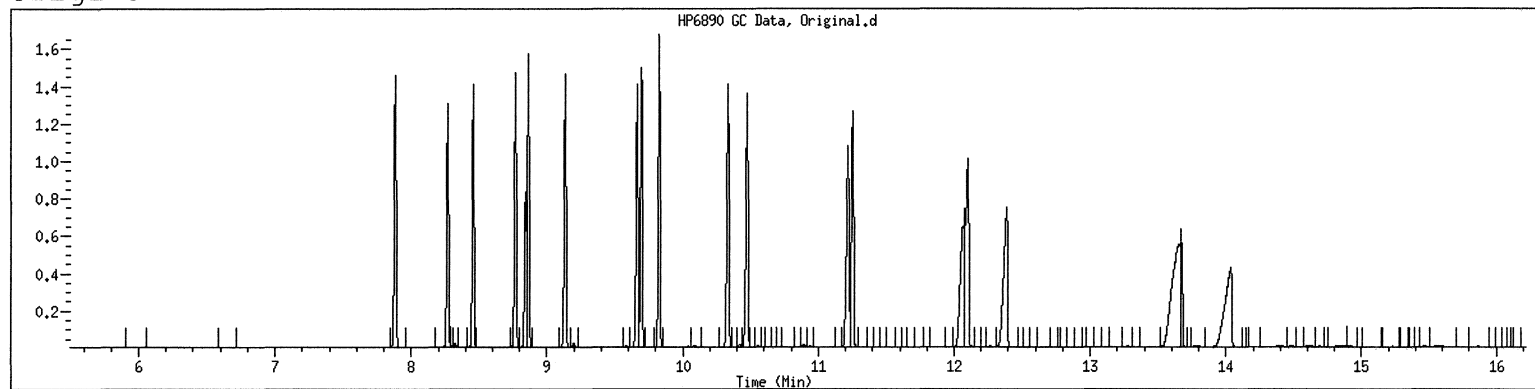
Instrument: gosv19b.i
Operator: smh
Column diameter: 0.25



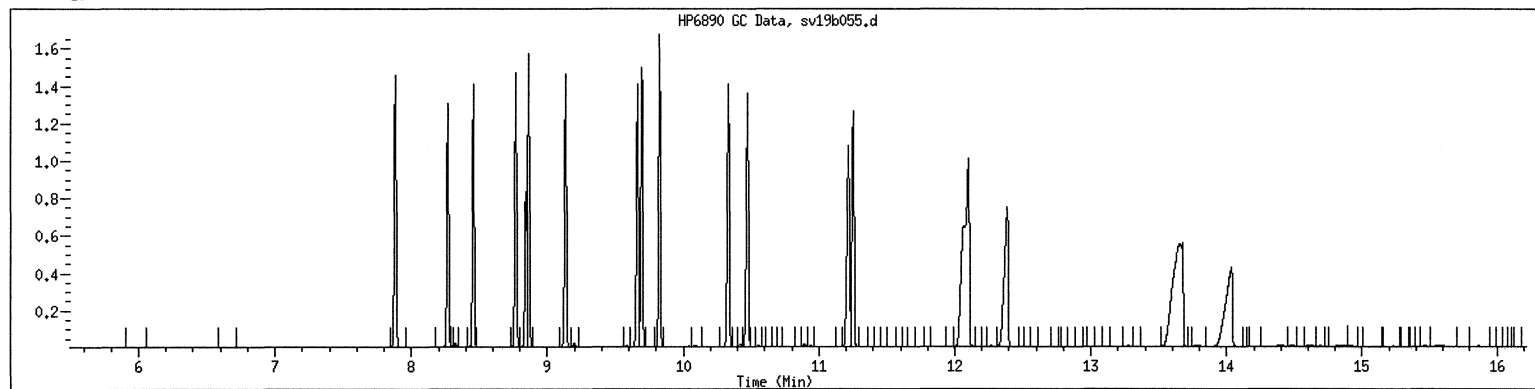
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1204 SampleType : CALIB_4
Injection Date: 11/02/2011 17:07 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1204*1 84-12-8
Misc Info :
Method : /var/chem/gcsv19b.i/2111102.b/AROEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111102.b/sv19b056.d
 Lab Smp Id: 1205 Client Smp ID: 1 84-12-8
 Inj Date : 02-NOV-2011 17:30
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1205*1 84-12-8
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111102.b/AROEPMass.m
 Meth Date : 08-Nov-2011 08:35 dlb Quant Type: ESTD
 Cal Date : 02-NOV-2011 17:30 Cal File: sv19b056.d
 Als bottle: 56 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 Naphthalene	7.888	7.881	0.007	560773309	200.000	197
2 2-Methylnaphthalene	8.274	8.266	0.008	471635711	200.000	198
\$ 3 2-Fluorobiphenyl	8.462	8.454	0.008	487110868	200.000	198
4 Acenaphthylene	8.776	8.767	0.009	549624381	200.000	199
\$ 5 2-Bromonaphthalene	8.853	8.839	0.014	289830833	200.000	185
6 Acenaphthene	8.872	8.858	0.014	598423437	200.000	206 (A)
7 Fluorene	9.143	9.133	0.010	560238934	200.000	202 (A)
8 Phenanthrene	9.671	9.658	0.013	571061474	200.000	207 (A)
9 Anthracene	9.705	9.689	0.016	544704598	200.000	205 (A)
\$ 10 O-Terphenyl	9.832	9.823	0.009	590845256	200.000	200 (A)
12 Fluoranthene	10.343	10.329	0.014	584649476	200.000	207 (A)
13 Pyrene	10.485	10.468	0.017	594957073	200.000	208 (A)
14 Benzo(a)Anthracene	11.230	11.215	0.015	597011528	200.000	215 (A)

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
15 Chrysene	11.270	11.246	0.024	571139866	200.000	208 (A)
16 Benzo(b)Fluoranthene	12.128	12.088	0.040	1177732644	400.000	419 (AM1)
17 Benzo(k)Fluoranthene	12.128	12.088	0.040	1177732644	400.000	419 (A)
18 Benzo(a)Pyrene	12.413	12.373	0.040	575092148	200.000	207 (A)
19 Indo(1,2,3cd)Pyrene	13.724	13.632	0.092	1087945178	400.000	406 (AM2)
20 Dibenzo(a,h)Anthracene	13.724	13.632	0.092	1087945178	400.000	406 (AM2)
21 Benzo(g,h,i)Perylene	14.088	14.001	0.087	550489918	200.000	198
M 22 Arom C11-C22				9595479675	3400.00	3480
M 113 Total Surrogate Area				1367786957	0.00000	(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M1- Compound response manually integrated because Target system did not integrate.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Date : 02-NOV-2011 17:30

Client ID: 1 84-12-8

Sample Info: 1205x1 84-12-8

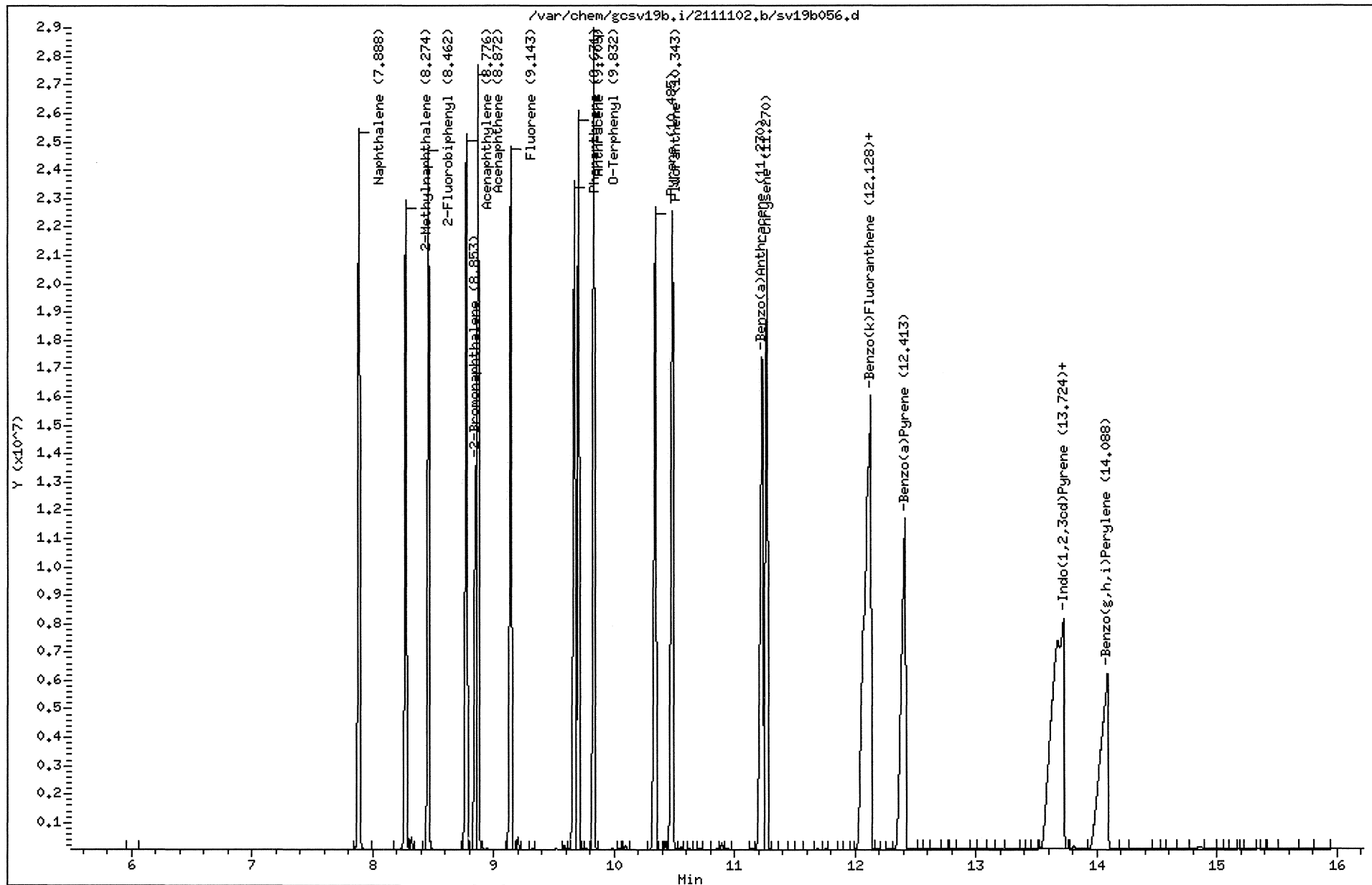
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gcsv19b,i

Operator: smh

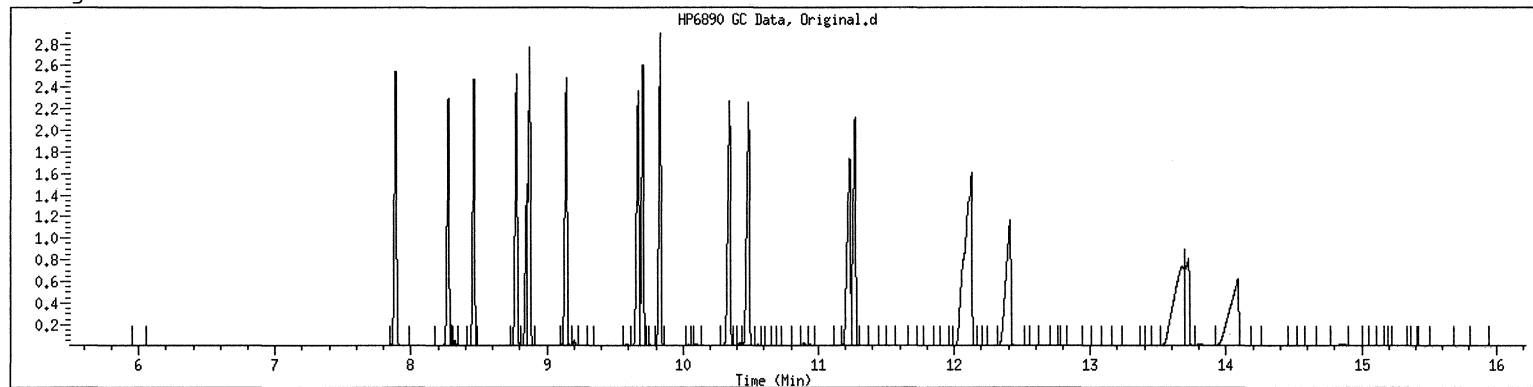
Column diameter: 0,25



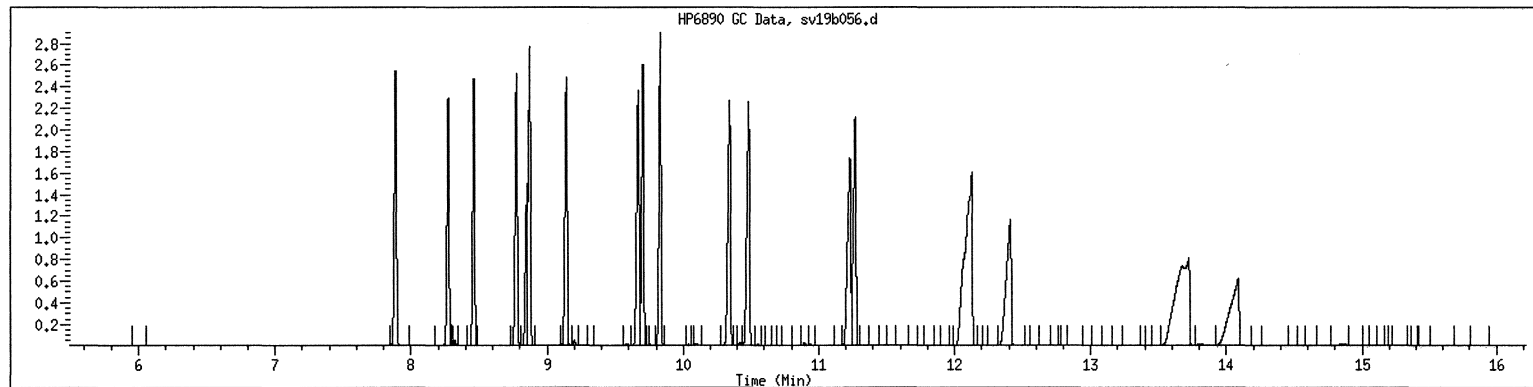
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1205 SampleType : CALIB_5
Injection Date: 11/02/2011 17:30 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1205*1 84-12-8
Misc Info :
Method : /var/chem/gcsv19b.i/2111102.b/AROEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

RECOVERY REPORT

Client Name: Client SDG: 2111102
 Sample Matrix: LIQUID Fraction: SV
 Lab Smp Id: 1600 Client Smp ID: 1 84-7-10
 Level: LOW Operator: smh
 Data Type: GC MULTI COMP SampleType: LCS
 SpikeList File: AROMICV.spk Quant Type: ESTD
 Sublist File: all.sub
 Method File: /var/chem/gcsv19b.i/2111102.b/AROEPHmass.m
 Misc Info:

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 Naphthalene	50.0	49.0	98.05	75-125
2 2-Methylnaphthalene	50.0	55.6	111.25	75-125
4 Acenaphthylene	50.0	49.5	98.98	75-125
6 Acenaphthene	50.0	47.9	95.74	75-125
7 Fluorene	50.0	50.0	100.07	75-125
8 Phenanthrene	50.0	50.4	100.72	75-125
9 Anthracene	50.0	50.5	100.97	75-125
12 Fluoranthene	50.0	49.6	99.22	75-125
13 Pyrene	50.0	51.1	102.27	75-125
14 Benzo (a) Anthracene	50.0	50.4	100.89	75-125
15 Chrysene	50.0	49.9	99.75	75-125
16 Benzo (b) Fluoranthene	100	101	101.11	75-125
17 Benzo (k) Fluoranthene	100	101	101.11	75-125
18 Benzo (a) Pyrene	50.0	50.9	101.88	75-125
19 Indo (1, 2, 3cd) Pyrene	100	104	104.37	75-125
20 Dibenzo (a, h) Anthracene	100	104	104.37	75-125
21 Benzo (g, h, i) Perylene	50.0	52.5	105.06	75-125

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 3 2-Fluorobiphenyl	50.0	51.5	102.93	40-140
\$ 5 2-Bromonaphthalene	50.0	54.4	108.75	40-140
\$ 10 O-Terphenyl	50.0	55.1	110.13	40-140
\$ 11 Chloro-octadecane	50.0	0.00	*	40-140

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111102.b/sv19b057.d
 Lab Smp Id: 1600 Client Smp ID: 1 84-7-10
 Inj Date : 02-NOV-2011 17:55
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1600*1 84-7-10
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111102.b/AROEPHmass.m
 Meth Date : 08-Nov-2011 08:36 dlb Quant Type: ESTD
 Cal Date : 02-NOV-2011 17:30 Cal File: sv19b056.d
 Als bottle: 57 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1.00000	Volume of sample extracted (mL)
Vt	1.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 Naphthalene	7.879	7.881	-0.002	139338681	49.0256	49.0
2 2-Methylnaphthalene	8.266	8.266	0.000	132335257	55.6267	55.6
\$ 3 2-Fluorobiphenyl	8.453	8.454	-0.001	126473294	51.4645	51.5
4 Acenaphthylene	8.765	8.767	-0.002	136751456	49.4891	49.5
\$ 5 2-Bromonaphthalene	8.838	8.839	-0.001	85304529	54.3764	54.4
6 Acenaphthene	8.858	8.858	0.000	139305778	47.8689	47.9
7 Fluorene	9.131	9.133	-0.002	138659834	50.0363	50.0
8 Phenanthrene	9.658	9.658	0.000	139031327	50.3612	50.4
9 Anthracene	9.688	9.689	-0.001	133992045	50.4869	50.5
\$ 10 O-Terphenyl	9.822	9.823	-0.001	162371730	55.0637	55.1
12 Fluoranthene	10.327	10.329	-0.002	139951783	49.6082	49.6
13 Pyrene	10.467	10.468	-0.001	146018326	51.1362	51.1
14 Benzo(a)Anthracene	11.209	11.215	-0.006	140091684	50.4462	50.4

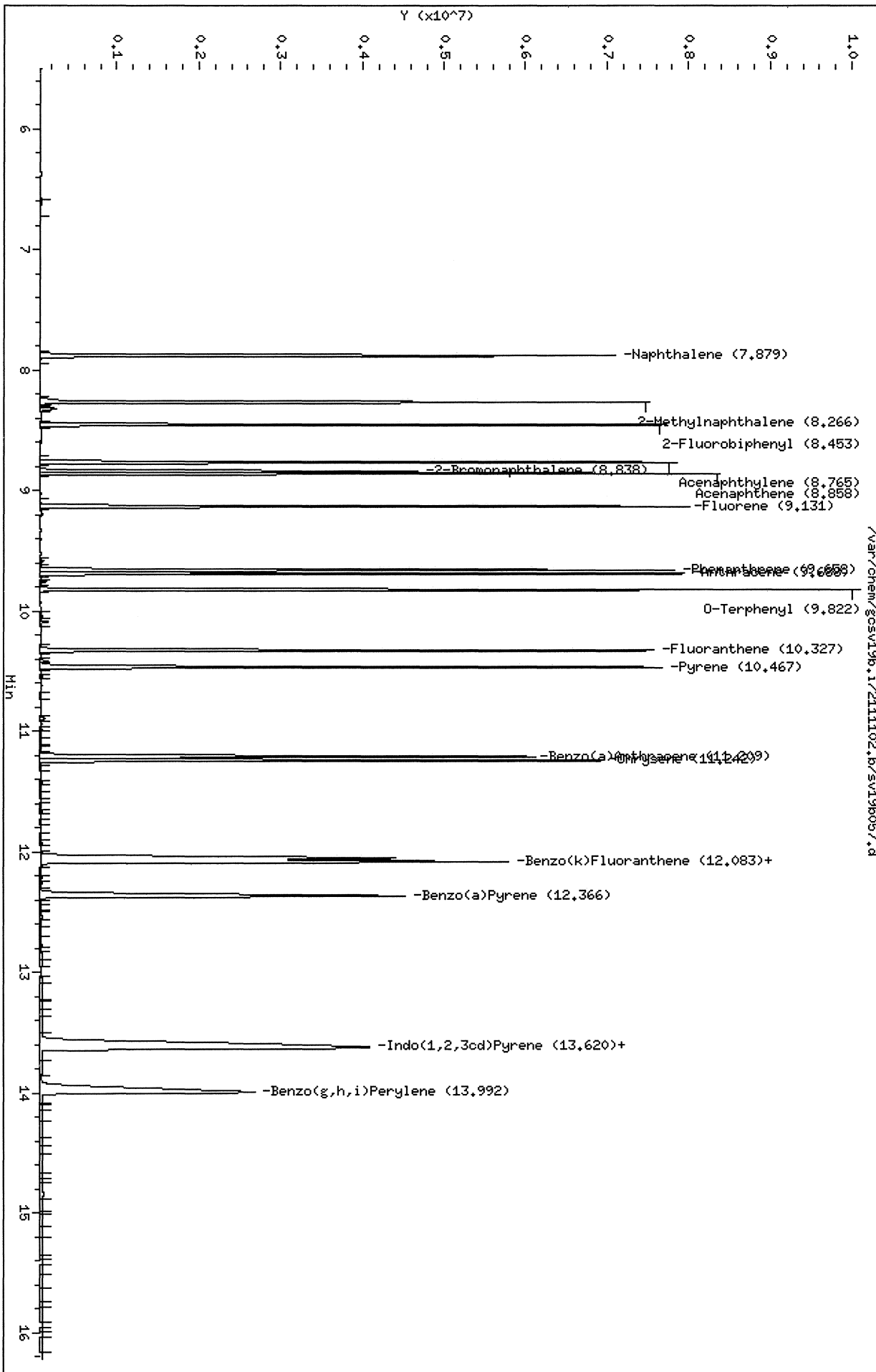
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
15 Chrysene	11.242	11.246	-0.004	137066815	49.8756	49.9
16 Benzo(b)Fluoranthene	12.083	12.088	-0.005	284470342	101.114	101 (M2)
17 Benzo(k)Fluoranthene	12.083	12.088	-0.005	284470342	101.114	101 (M2)
18 Benzo(a)Pyrene	12.366	12.373	-0.007	141233811	50.9376	50.9
19 Indo(1,2,3cd)Pyrene	13.620	13.632	-0.012	279620012	104.373	104
20 Dibenzo(a,h)Anthracene	13.620	13.632	-0.012	279620012	104.373	104 (M1)
21 Benzo(g,h,i)Perylene	13.992	14.001	-0.009	145927664	52.5299	52.5
M 22 Arom C11-C22				2373794815	862.915	863
M 113 Total Surrogate Area				374149553		(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M1- Compound response manually integrated because Target system did not integrate.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Data File: /var/chem/gcsw19b.i/2111102.b/sw19b057.d
 Date: 02-NOV-2011 17:55
 Client ID: 1 84-7-10
 Sample Info: 1600x1 84-7-10
 Volume Injected (uL): 1.0
 Column phase: DB-5MS-30M

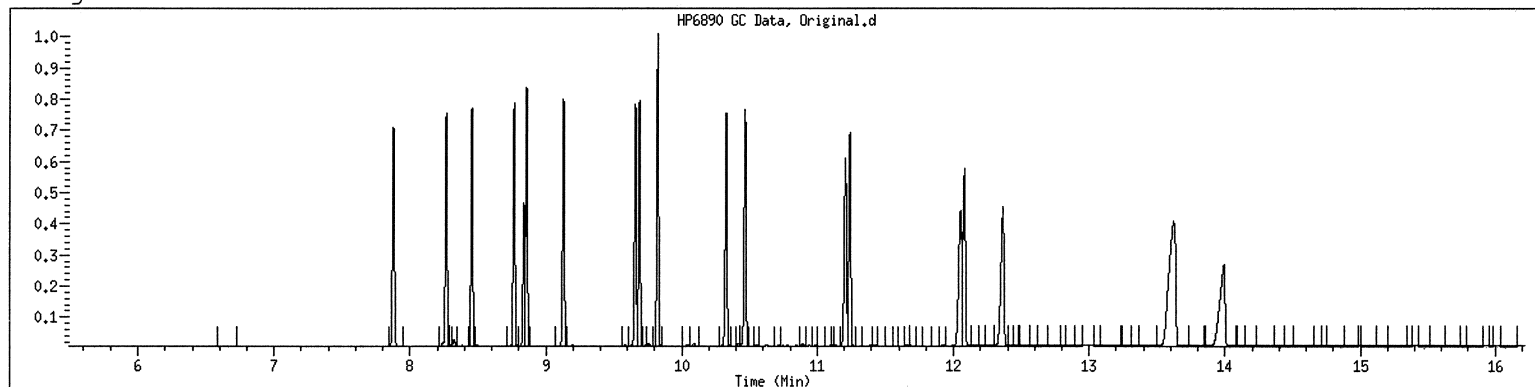
Instrument: gcsw19b.i
 Operator: smh
 Column diameter: 0.25



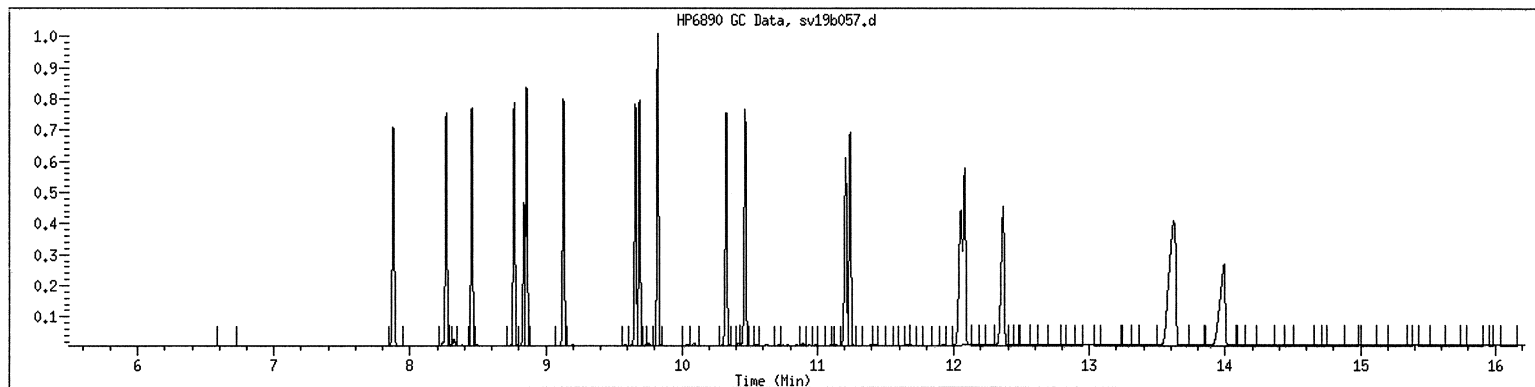
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1600 SampleType : LCS
Injection Date: 11/02/2011 17:55 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1600*1 84-7-10
Misc Info :
Method : /var/chem/gcsv19b.i/2111102.b/AROEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111103.b/sv19b052s.d
Lab Smp Id: 1201 Client Smp ID: 1 84-16-1
Inj Date : 03-NOV-2011 12:55
Operator : smh Inst ID: gcsv19b.i
Smp Info : 1201*1 84-16-1
Misc Info :
Comment :
Method : /var/chem/gcsv19b.i/2111103.b/AROEPH.m
Meth Date : 08-Nov-2011 08:52 dlb Quant Type: ESTD
Cal Date : 03-NOV-2011 12:55 Cal File: sv19b052s.d
Als bottle: 52 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: chlosurr.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (UG/ML)	ON-COL (UG/ML)
\$ 14 Chloro-octadecane	10.185	10.305	-0.120	2731973	2.00000	2.0000 (M2)

QC Flag Legend

M2- Compound response manually integrated because
Target system integrated incorrectly.

Date : 03-NOV-2011 12:55

Client ID: 1 84-16-1

Instrument: gosv19b.i

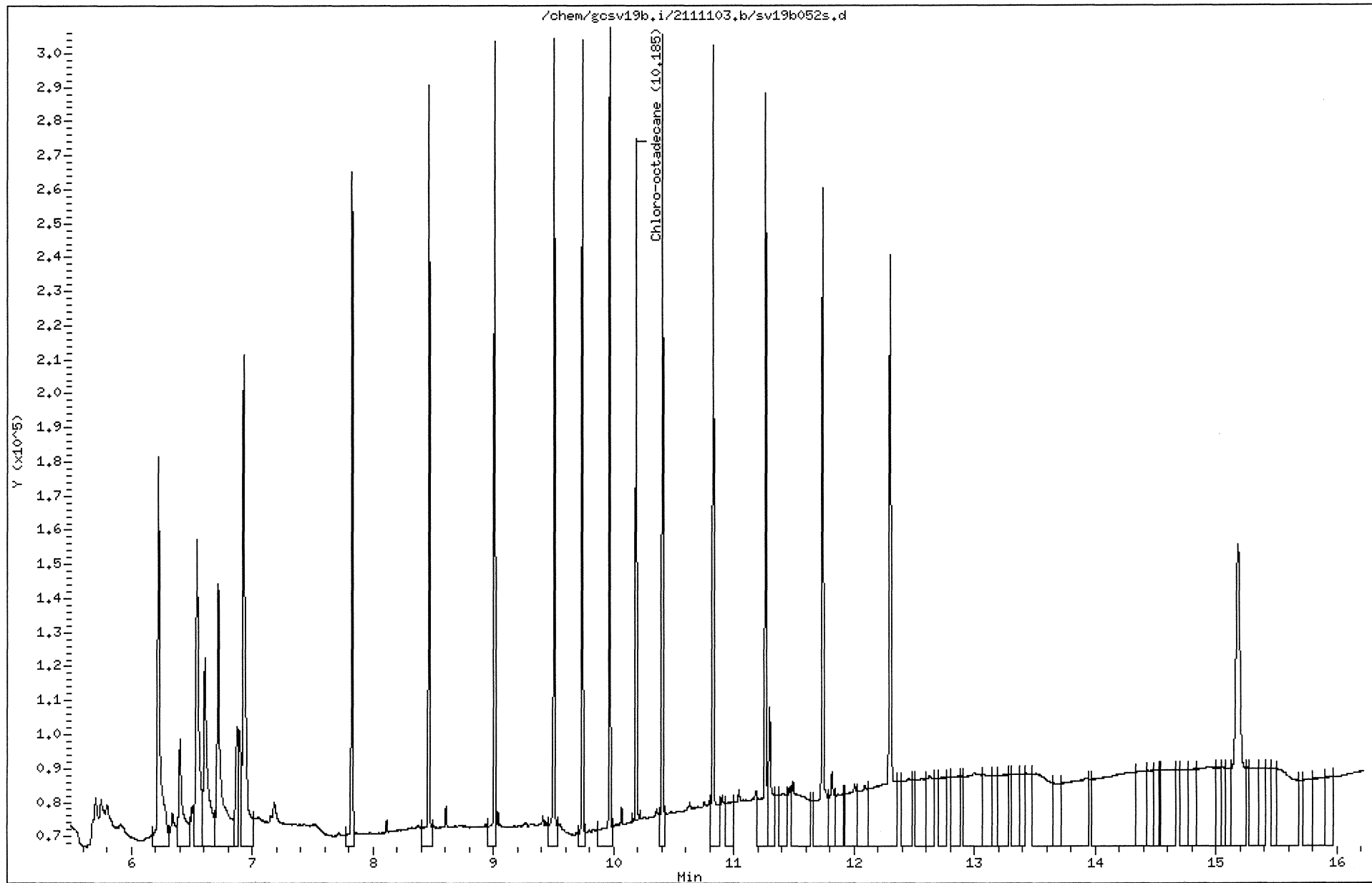
Sample Info: 1201*1 84-16-1

Operator: smh

Volume Injected (uL): 1.0

Column diameter: 0.25

Column phase: DB-5MS-30M

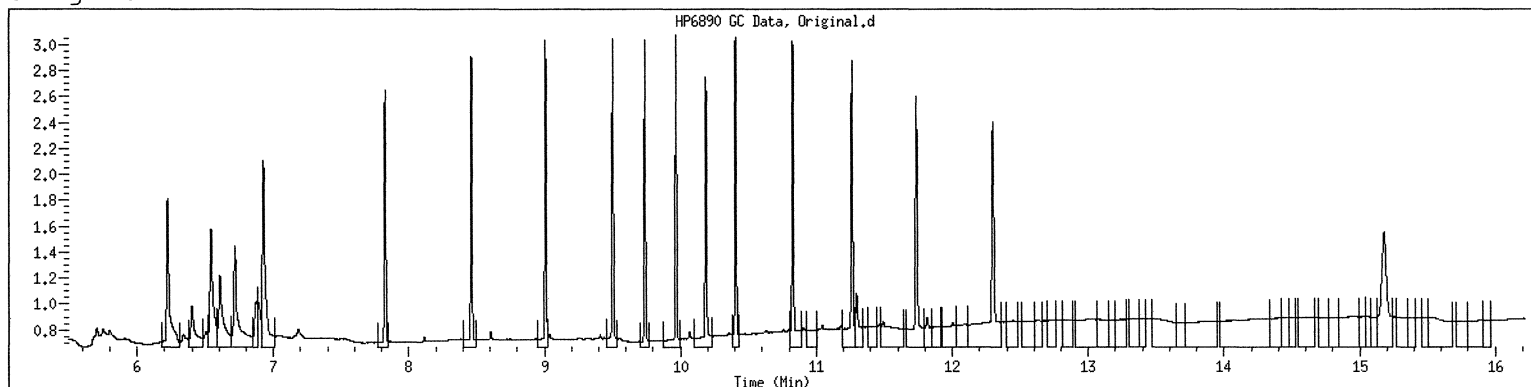


211110421 192

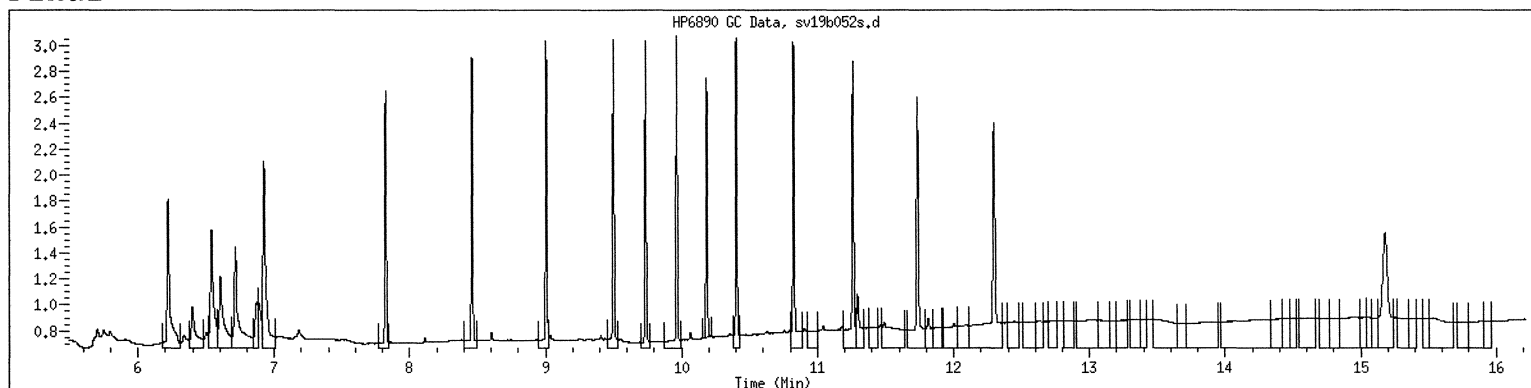
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1201 SampleType : CALIB_1
Injection Date: 11/03/2011 12:55 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1201*1 84-16-1
Misc Info :
Method : /var/chem/gcsv19b.i/2111103.b/AROEPH.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: chlosurr

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111103.b/sv19b053s.d
Lab Smp Id: 1202 Client Smp ID: 1 84-16-1
Inj Date : 03-NOV-2011 13:18
Operator : smh Inst ID: gcsv19b.i
Smp Info : 1202*1 84-16-1
Misc Info :
Comment :
Method : /var/chem/gcsv19b.i/2111103.b/AROEPH.m
Meth Date : 08-Nov-2011 08:52 dlb Quant Type: ESTD
Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
Als bottle: 53 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: chlosurr.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
§ 14 Chloro-octadecane	10.165	10.305	-0.140	27926615	20.0000	20.2197 (M2)

QC Flag Legend

M2- Compound response manually integrated because
Target system integrated incorrectly.

Date : 03-NOV-2011 13:18

Client ID: 1 84-16-1

Sample Info: 1202*1 84-16-1

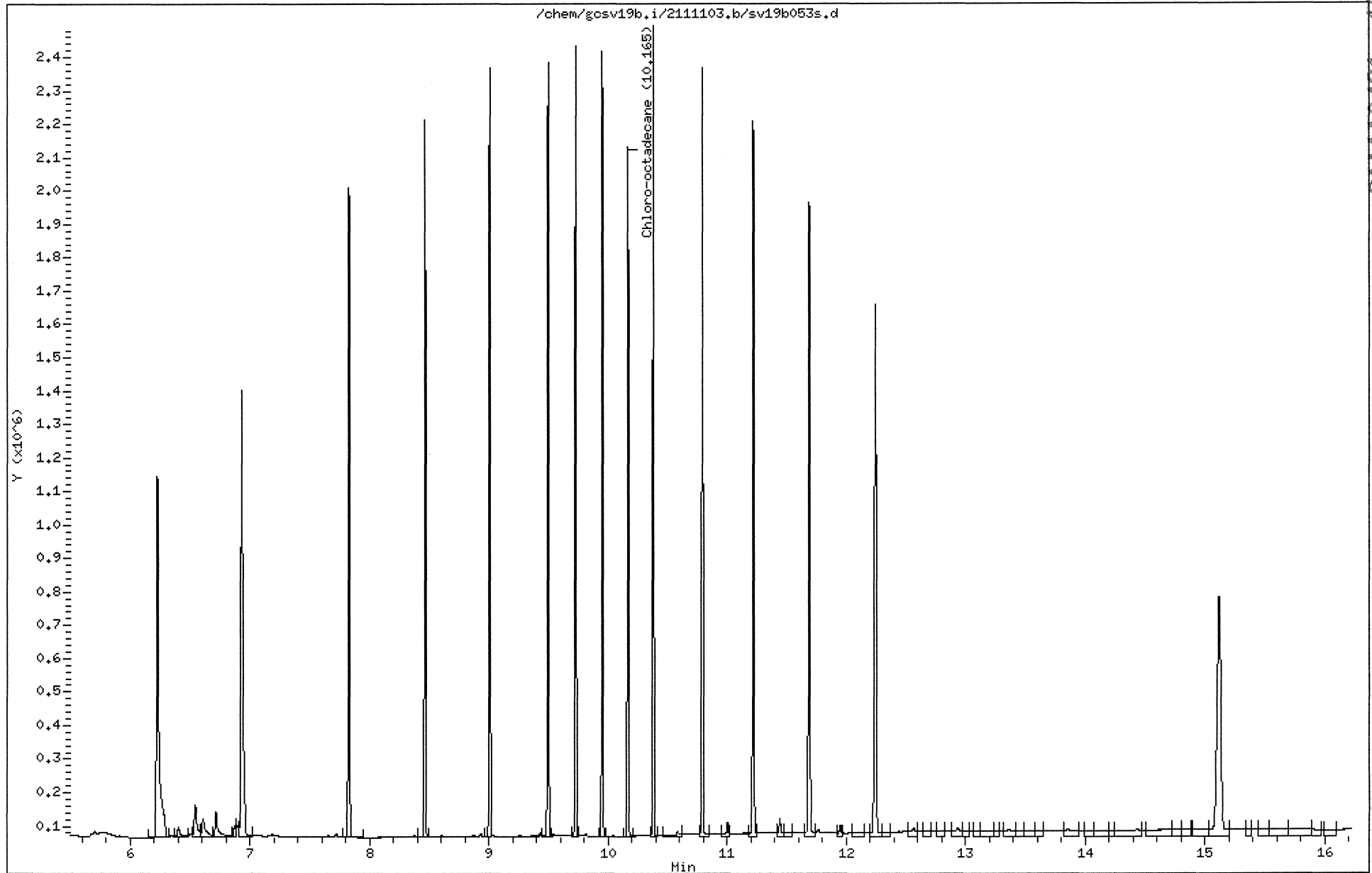
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gcsv19b.i

Operator: smh

Column diameter: 0.25

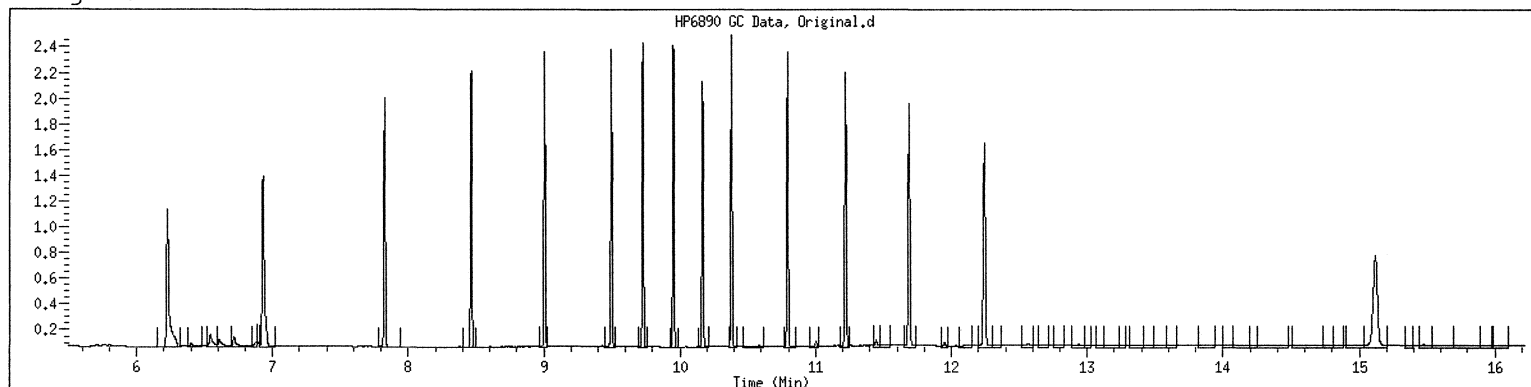


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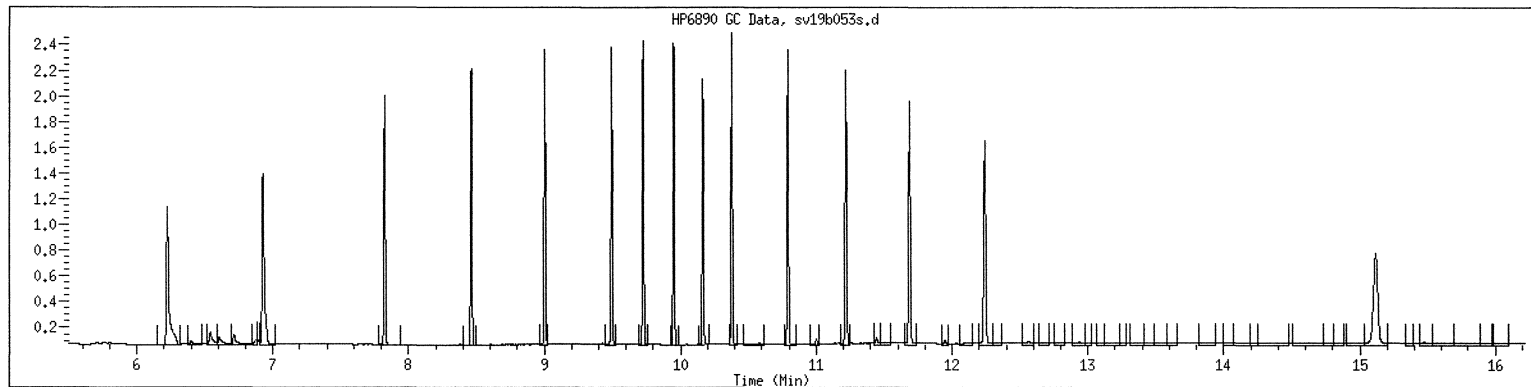
MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1202 SampleType : CALIB_2
Injection Date: 11/03/2011 13:18 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1202*1 84-16-1
Misc Info :
Method : /var/chem/gcsv19b.i/2111103.b/AROEPH.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: chlosurr

Original



Final



GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111103.b/sv19b054s.d
Lab Smp Id: 1203 Client Smp ID: 1 84-16-1
Inj Date : 03-NOV-2011 13:42
Operator : smh Inst ID: gcsv19b.i
Smp Info : 1203*1 84-16-1
Misc Info :
Comment :
Method : /var/chem/gcsv19b.i/2111103.b/AROEPH.m
Meth Date : 08-Nov-2011 08:52 dlb Quant Type: ESTD
Cal Date : 03-NOV-2011 13:42 Cal File: sv19b054s.d
Als bottle: 54 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: chlosurr.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
\$ 14 Chloro-octadecane	10.166	10.259	-0.093	136540779	100.000	99.2368

Date : 03-NOV-2011 13:42

Client ID: 1 84-16-1

Sample Info: 1203*1 84-16-1

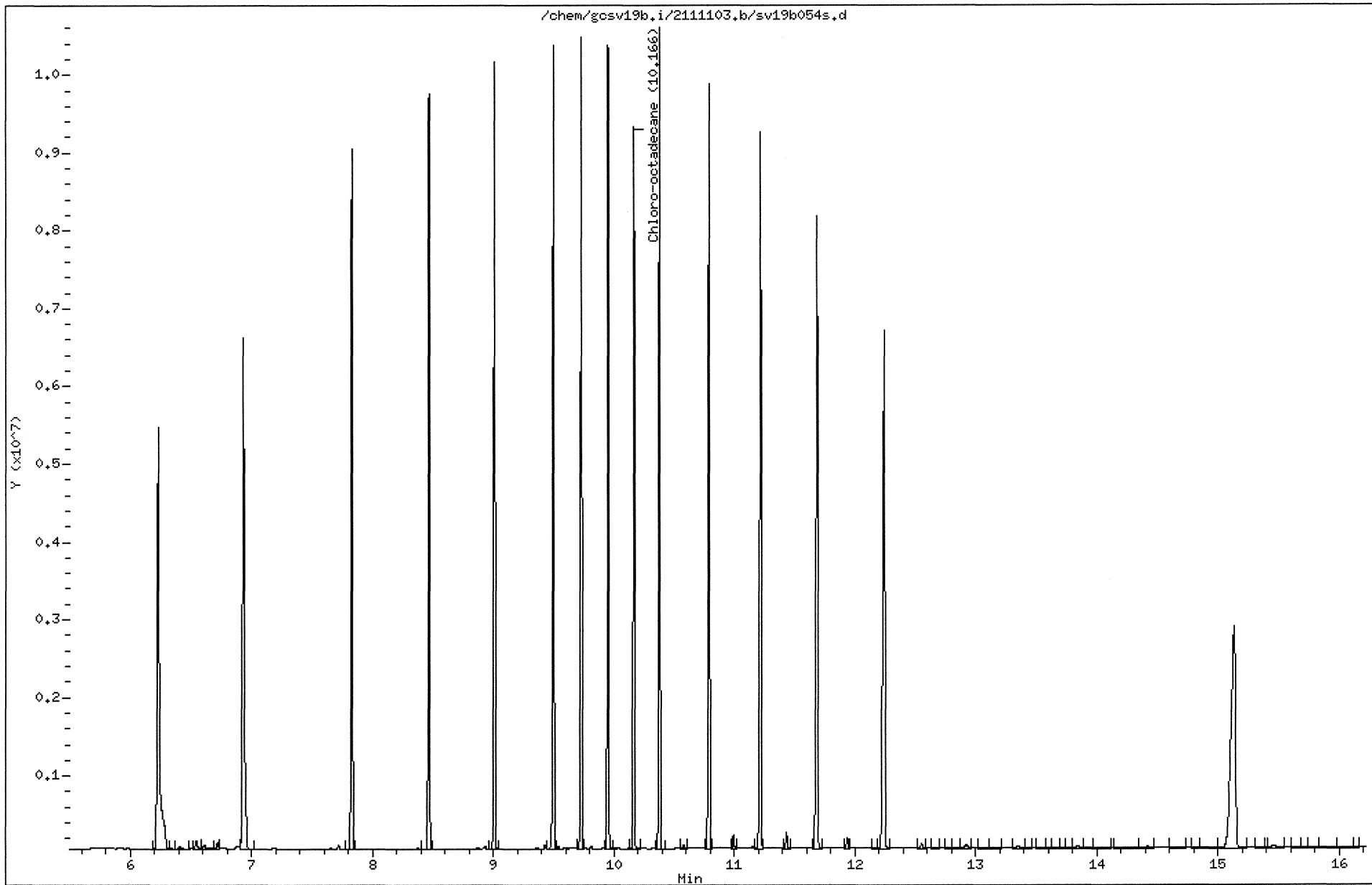
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gcsv19b.i

Operator: smh

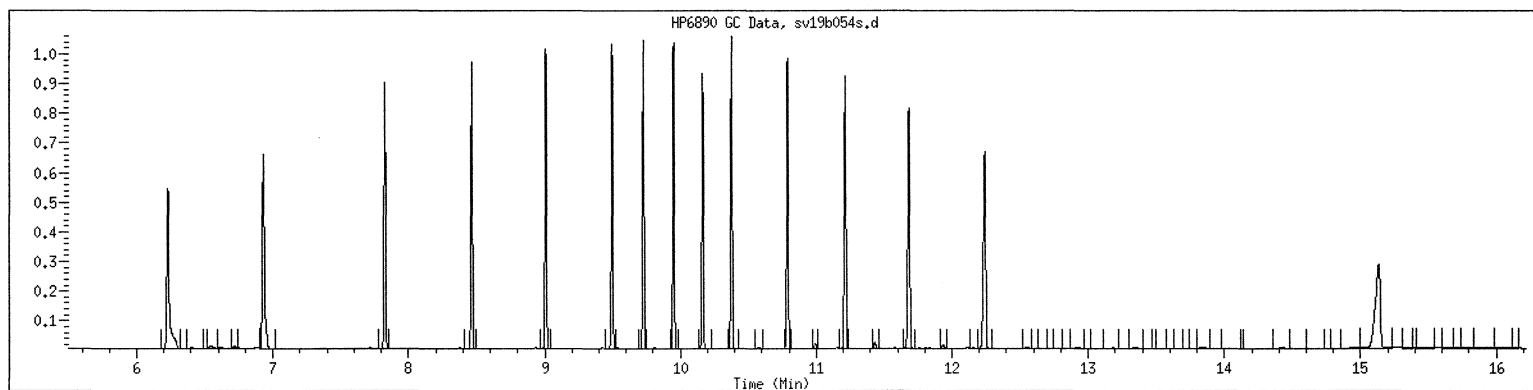
Column diameter: 0.25



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1203 SampleType : CALIB_3
Injection Date: 11/03/2011 13:42 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1203*1 84-16-1
Misc Info :
Method : /var/chem/gcsv19b.i/2111103.b/AROEPH.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: chlosurr



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111103.b/sv19b055s.d
Lab Smp Id: 1204 Client Smp ID: 1 84-16-1
Inj Date : 03-NOV-2011 14:06
Operator : smh Inst ID: gcsv19b.i
Smp Info : 1204*1 84-16-1
Misc Info :
Comment :
Method : /var/chem/gcsv19b.i/2111103.b/AROEPH.m
Meth Date : 08-Nov-2011 08:52 dlb Quant Type: ESTD
Cal Date : 03-NOV-2011 14:06 Cal File: sv19b055s.d
Als bottle: 55 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: chlosurr.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
§ 14 Chloro-octadecane	10.173	10.259	-0.086	277518519	200.000	201.2711 (A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Date : 03-NOV-2011 14:06

Client ID: 1 84-16-1

Sample Info: 1204*1 84-16-1

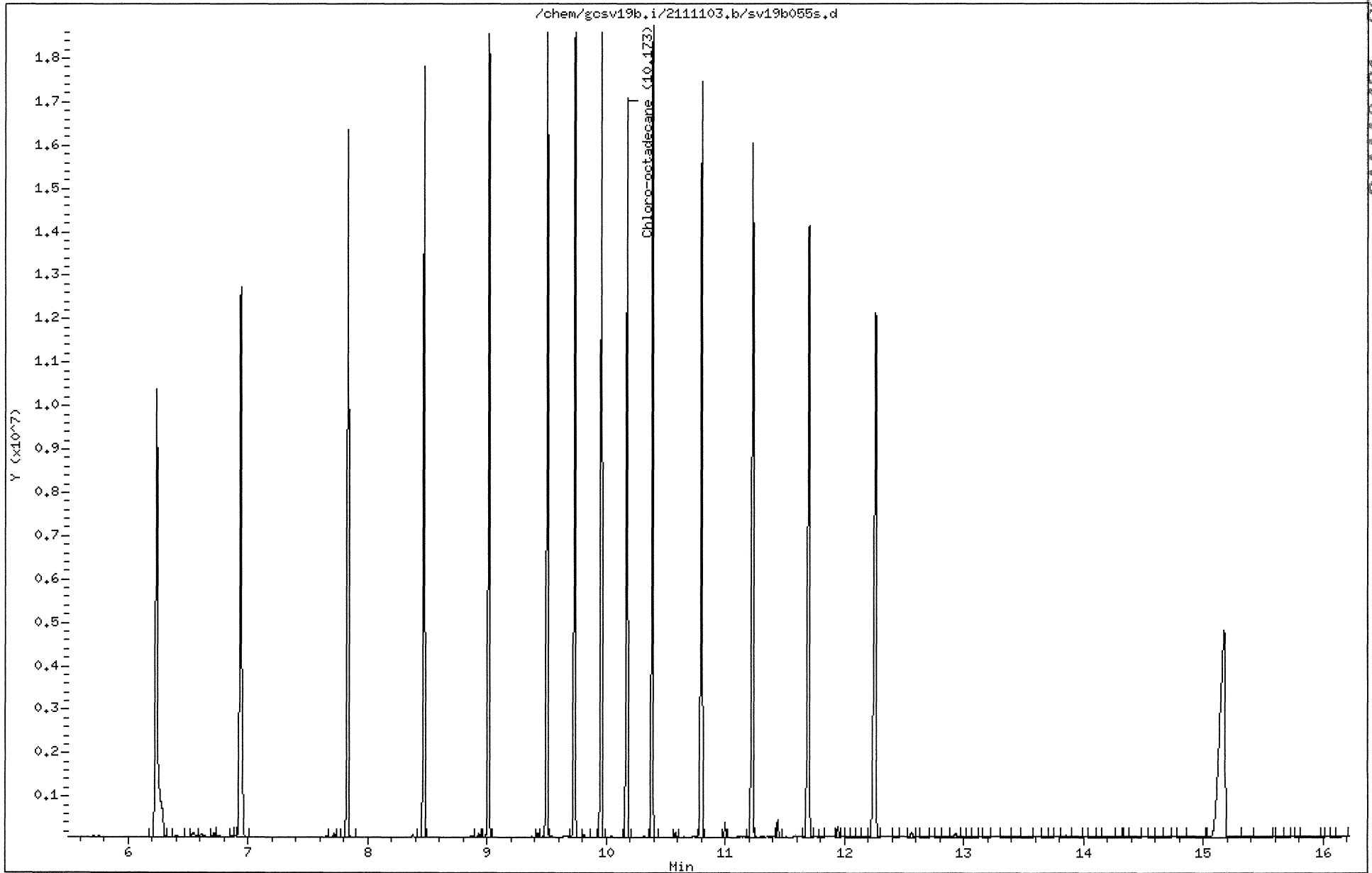
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gcsv19b.i

Operator: smh

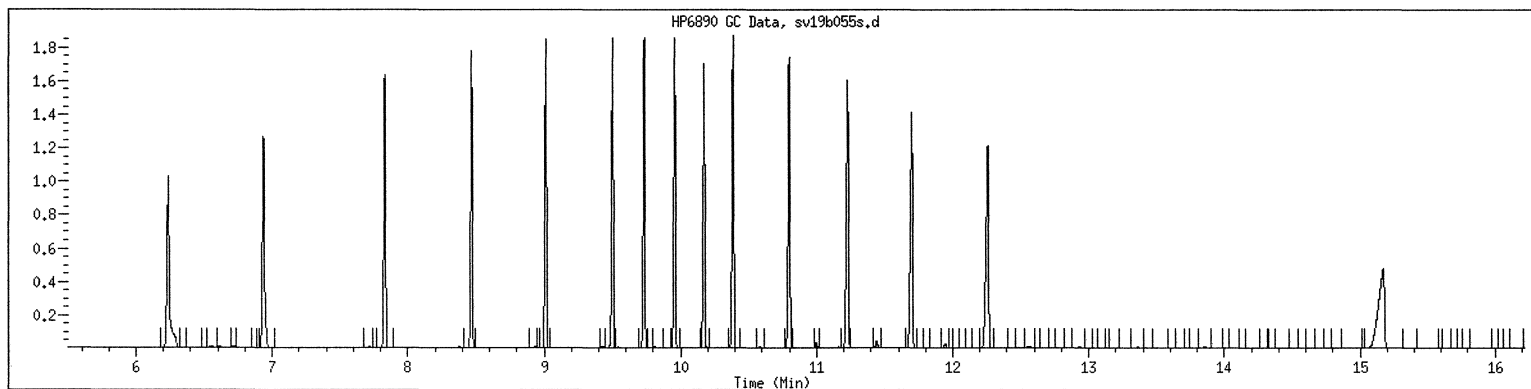
Column diameter: 0.25



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1204 SampleType : CALIB_4
Injection Date: 11/03/2011 14:06 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1204*1 84-16-1
Misc Info :
Method : /var/chem/gcsv19b.i/2111103.b/AROEPH.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: chlosurr



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111103.b/sv19b056s.d
Lab Smp Id: 1205 Client Smp ID: 1 84-16-1
Inj Date : 03-NOV-2011 14:30
Operator : smh Inst ID: gcsv19b.i
Smp Info : 1205*1 84-16-1
Misc Info :
Comment :
Method : /var/chem/gcsv19b.i/2111103.b/AROEPH.m
Meth Date : 08-Nov-2011 08:52 dlb Quant Type: ESTD
Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056s.d
Als bottle: 56 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: chlosurr.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	AMOUNTS					
	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (UG/ML)	ON-COL (UG/ML)
\$ 14 Chloro-octadecane	10.176	10.259	-0.083	533373016	400.000	389.3944 (A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Date : 03-NOV-2011 14:30

Client ID: 1 84-16-1

Instrument: gcsv19b.i

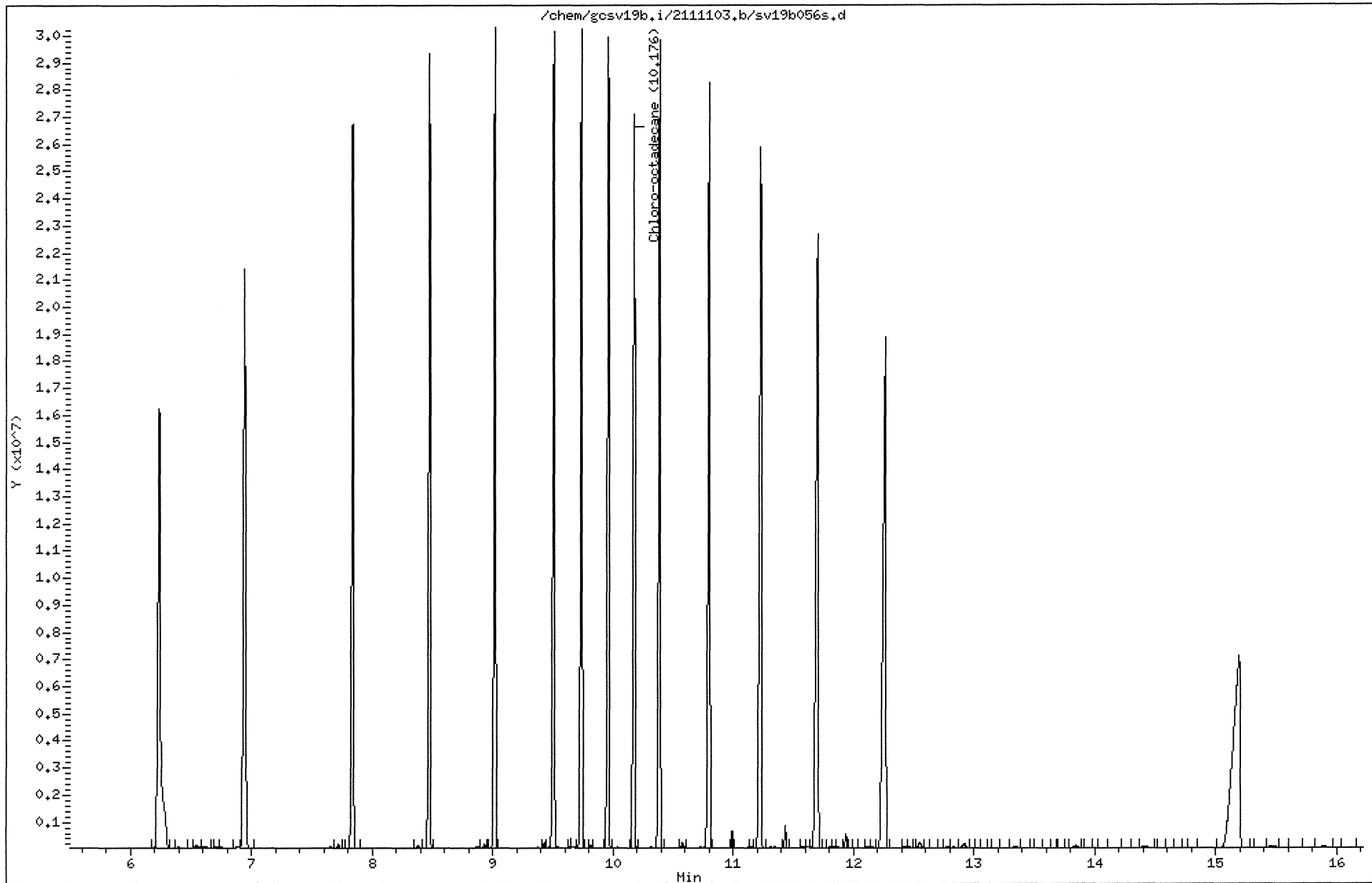
Sample Info: 1205*1 84-16-1

Volume Injected (uL): 1.0

Operator: smh

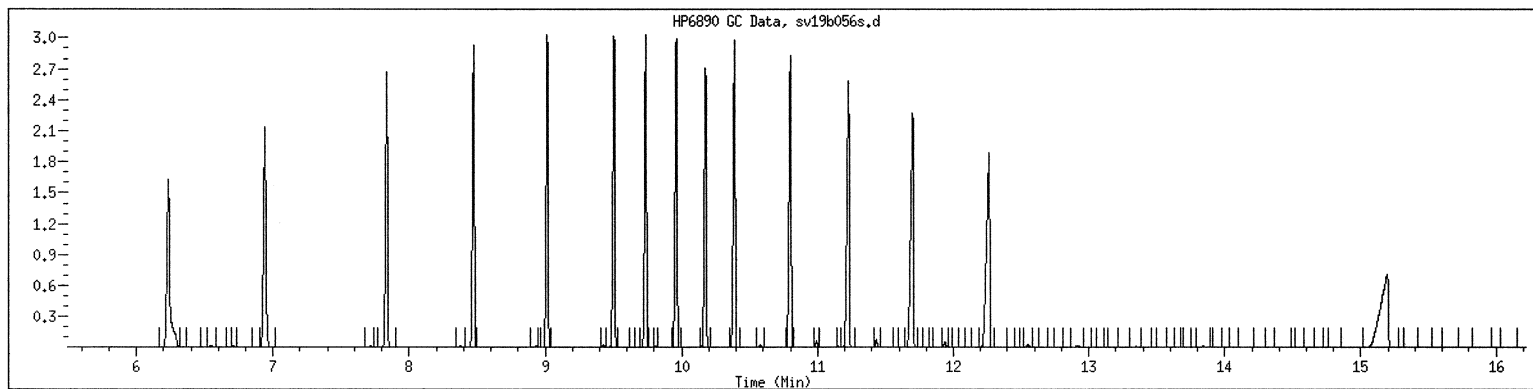
Column phase: DB-5MS-30M

Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1205 SampleType : CALIB_5
Injection Date: 11/03/2011 14:30 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1205*1 84-16-1
Misc Info :
Method : /var/chem/gcsv19b.i/2111103.b/AROEPH.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: chlosurr



NO MANUAL INTEGRATIONS

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv19b.i Injection Date: 10-NOV-2011 14:13
 Lab File ID: sv19b052.d Init. Cal. Date(s): 02-NOV-2011 03-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 15:55 14:30
 Lab Sample ID: 1400 Quant Type: ESTD
 Method: /var/chem/gcsv19b.i/2111110.b/AROEPMass.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D	%DRIFT	
1 Naphthalene	2842159	2643972	0.010	6.97310	25.00000	Averaged	
2 2-Methylnaphthalene	2378988	2214133	0.010	6.92963	25.00000	Averaged	
3 2-Fluorobiphenyl	2457488	2316259	0.010	5.74686	25.00000	Averaged	
4 Acenaphthylene	2763267	2583096	0.010	6.52022	25.00000	Averaged	
5 2-Bromonaphthalene	1568778	1433504	0.010	8.62289	25.00000	Averaged	
6 Acenaphthene	2910153	2768868	0.010	4.85490	25.00000	Averaged	
7 Fluorene	2771184	2631823	0.010	5.02896	25.00000	Averaged	
8 Phenanthrene	2760684	2518615	0.010	8.76847	25.00000	Averaged	
9 Anthracene	2653997	2517693	0.010	5.13583	25.00000	Averaged	
10 O-Terphenyl	2948796	2752788	0.010	6.64704	25.00000	Averaged	
12 Fluoranthene	2821141	2509422	0.010	11.04940	25.00000	Averaged	
13 Pyrene	2855480	2647674	0.010	7.27747	25.00000	Averaged	
14 Benzo(a)Anthracene	2777049	2260450	0.010	18.60244	25.00000	Averaged	
15 Chrysene	2748172	2735898	0.010	0.44664	25.00000	Averaged	
16 Benzo(b)Fluoranthene	2813367	2461671	0.010	12.50087	25.00000	Averaged	
17 Benzo(k)Fluoranthene	2813367	2461671	0.010	12.50087	25.00000	Averaged	
18 Benzo(a)Pyrene	2772685	2613952	0.010	5.72490	25.00000	Averaged	
19 Indo(1,2,3cd)Pyrene	2679052	2407432	0.010	10.13865	25.00000	Averaged	
20 Dibenzo(a,h)Anthracene	2679052	2407432	0.010	10.13865	25.00000	Averaged	
21 Benzo(g,h,i)Perylene	2777993	2693272	0.010	3.04975	25.00000	Averaged	
22 Arom C11-C22	2753988	2533945	0.010	7.98995	25.00000	Averaged	

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 2.93784
 Maximun Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /chem/gcsv19b.i/2111110.b/sv19b052.d
 Lab Smp Id: 1400 Client Smp ID: 1 84-12-8
 Inj Date : 10-NOV-2011 14:13
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1400*1 84-12-8
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111110.b/AROEPHmass.m
 Meth Date : 11-Nov-2011 16:02 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 52 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: cal.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 Naphthalene	7.875	7.880	-0.005	132198609	50.0000	46.5
2 2-Methylnaphthalene	8.262	8.265	-0.003	110706672	50.0000	46.5
\$ 3 2-Fluorobiphenyl	8.450	8.454	-0.004	115812971	50.0000	47.1
4 Acenaphthylene	8.763	8.766	-0.003	129154777	50.0000	46.7
\$ 5 2-Bromonaphthalene	8.836	8.838	-0.002	71675211	50.0000	45.7
6 Acenaphthene	8.855	8.858	-0.003	138443389	50.0000	47.6
7 Fluorene	9.129	9.132	-0.003	131591129	50.0000	47.5
8 Phenanthrene	9.659	9.657	0.002	125930741	50.0000	45.6
9 Anthracene	9.689	9.688	0.001	125884626	50.0000	47.4
\$ 10 O-Terphenyl	9.823	9.822	0.001	137639397	50.0000	46.7
12 Fluoranthene	10.333	10.327	0.006	125471080	50.0000	44.5
13 Pyrene	10.475	10.467	0.008	132383678	50.0000	46.4
14 Benzo(a)Anthracene	11.223	11.223	0.000	113022488	50.0000	40.7
15 Chrysene	11.255	11.250	0.005	136794887	50.0000	49.8

Report Date: 28-Nov-2011 13:45

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
16 Benzo(b)Fluoranthene	12.100	12.085	0.015	246167136	100.000	87.5 (M2)
17 Benzo(k)Fluoranthene	12.100	12.085	0.015	246167136	100.000	87.5 (M2)
18 Benzo(a)Pyrene	12.386	12.370	0.016	130697590	50.0000	47.1
19 Indo(1,2,3cd)Pyrene	13.644	13.598	0.046	240743229	100.000	89.9 (M1)
20 Dibenzo(a,h)Anthracene	13.644	13.638	0.006	240743229	100.000	89.9
21 Benzo(g,h,i)Perylene	14.015	13.997	0.018	134663577	50.0000	48.5
M 22 Arom C11-C22				2153853608	850.000	782

QC Flag Legend

- M1- Compound response manually integrated because Target system did not integrate.
M2- Compound response manually integrated because Target system integrated incorrectly.

Date: 10-NCV-2011 14:13

Client ID: 184-12-8

Sample Info: 1400x1 84-12-8

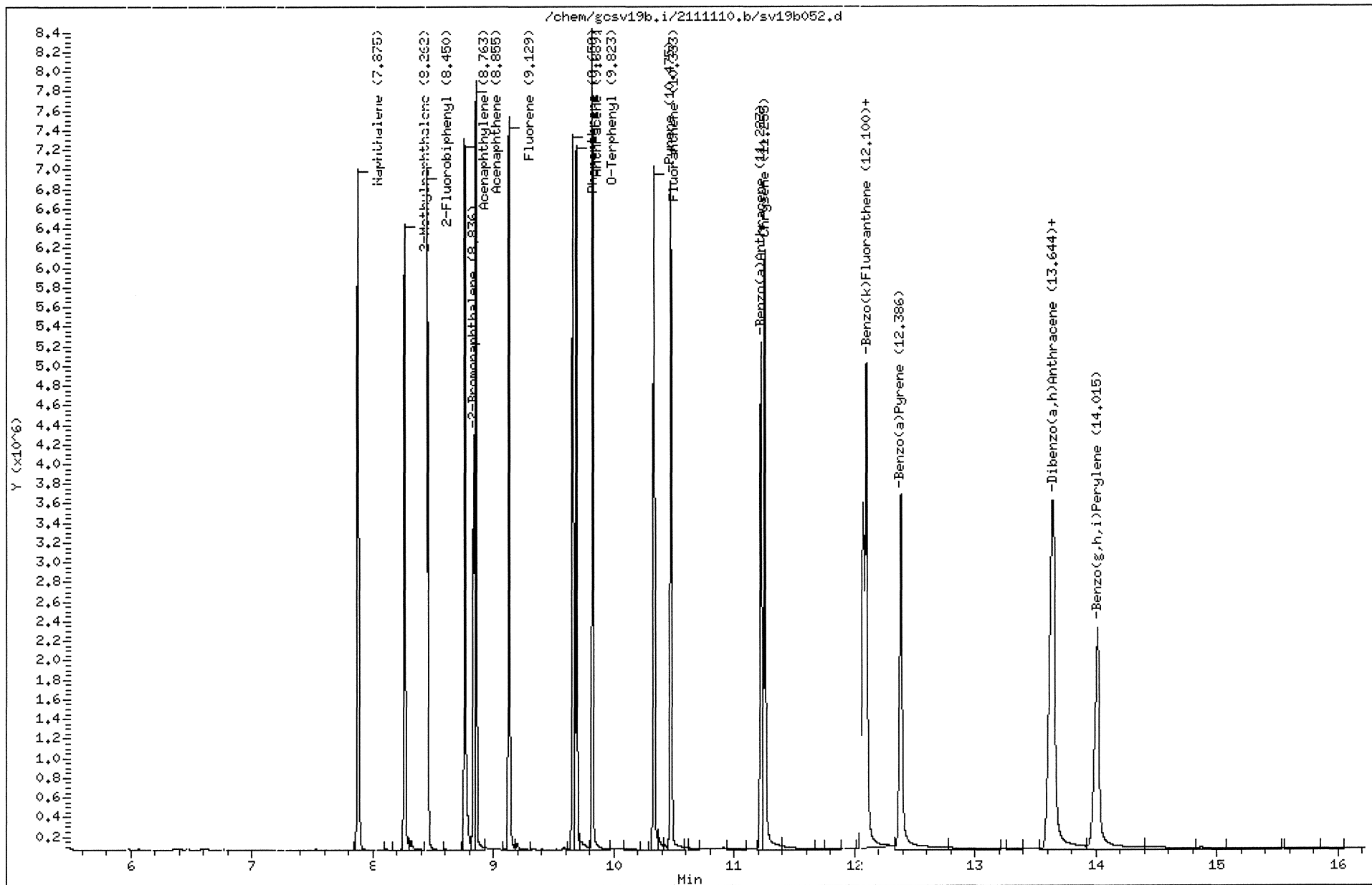
Volume Injected (uL): 1.0

Column Phase: DB-5MS-30M

Instrument: gcsv19b.i

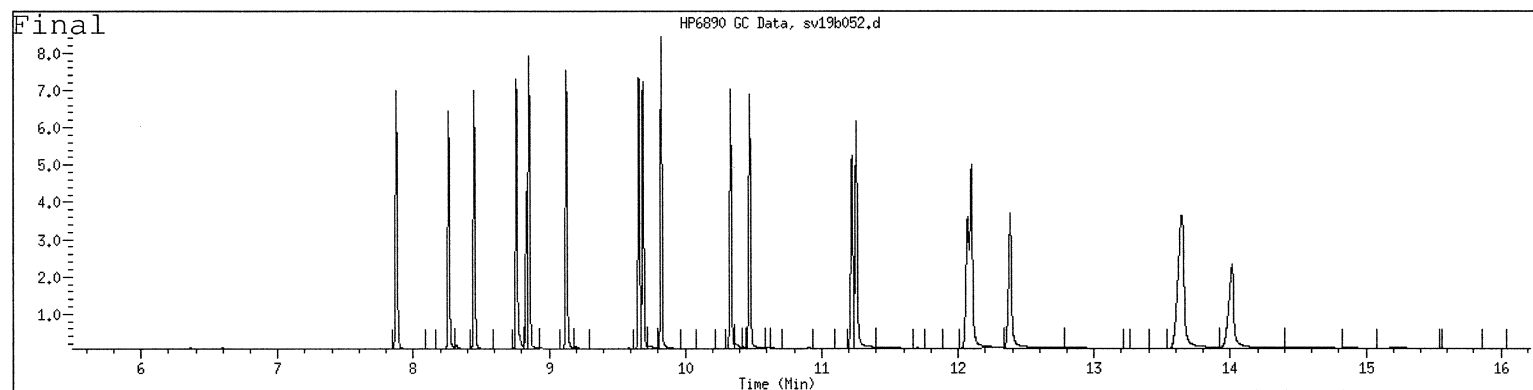
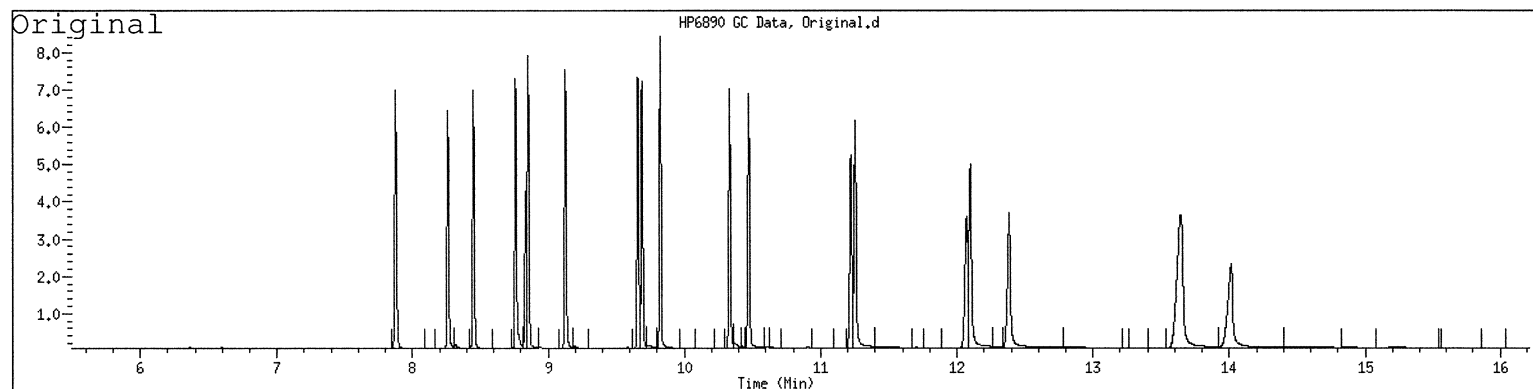
Operator: smh

Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1400 SampleType : CCALIB_3
Injection Date: 11/10/2011 14:13 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1400*1 84-12-8
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/AROEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: cal



GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv19b.i Injection Date: 10-NOV-2011 14:37
 Lab File ID: sv19b053.d Init. Cal. Date(s): 03-NOV-2011 03-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 12:55 14:30
 Lab Sample ID: 1400 Quant Type: ESTD
 Method: /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 C-9	2719340	2612883	0.010	3.91480	25.00000	Averaged
2 C-10	2739215	2651076	0.010	3.21768	25.00000	Averaged
4 C-12	2801460	2732444	0.010	2.46357	25.00000	Averaged
6 C-14	2878136	2764141	0.010	3.96074	25.00000	Averaged
8 C-16	2983102	2843571	0.010	4.67737	25.00000	Averaged
10 C-18	3021289	2807220	0.010	7.08537	25.00000	Averaged
M 11 Alip C9-C18	2857090	2735223	0.010	4.26546	25.00000	Averaged
12 C-19	3017239	2816034	0.010	6.66852	25.00000	Averaged
13 C-20	3045314	2850436	0.010	6.39926	25.00000	Averaged
\$ 15 Chlorooctadecane	2739581	2573613	0.010	6.05816	25.00000	Averaged
16 C-22	3060647	2856542	0.010	6.66869	25.00000	Averaged
18 C-24	3098402	2897387	0.010	6.48770	25.00000	Averaged
20 C-26	3120089	2923933	0.010	6.28687	25.00000	Averaged
22 C-28	3095987	2886973	0.010	6.75113	25.00000	Averaged
115 C-30	3120341	2928603	0.010	6.14475	25.00000	Averaged
114 C-36	2925634	2594512	0.010	11.31796	25.00000	Averaged
M 24 Alip C19-C36	3060457	2844302	0.010	7.06281	25.00000	Averaged

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 3.59037
 Maximum Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /chem/gcsv19b.i/2111110.b/sv19b053.d
 Lab Smp Id: 1400 Client Smp ID: 1 84-15-4
 Inj Date : 10-NOV-2011 14:37
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1400*1 84-15-4
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
 Meth Date : 17-Nov-2011 12:26 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 53 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 C-9	6.227	6.232	-0.005	130644166	50.0000	48.0
2 C-10	6.927	6.928	-0.001	132553801	50.0000	48.4
4 C-12	7.824	7.832	-0.008	136622203	50.0000	48.8
6 C-14	8.463	8.471	-0.008	138207049	50.0000	48.0
8 C-16	9.005	9.013	-0.008	142178545	50.0000	47.7
10 C-18	9.496	9.503	-0.007	140360985	50.0000	46.5
M 11 Alip C9-C18				820566751	300.000	287
12 C-19	9.726	9.774	-0.048	140801679	50.0000	46.7
13 C-20	9.949	9.957	-0.008	142521816	50.0000	46.8
\$ 15 Chlorooctadecane	10.163	10.216	-0.053	128680639	50.0000	47.0
16 C-22	10.376	10.383	-0.007	142827089	50.0000	46.7
18 C-24	10.787	10.795	-0.008	144869340	50.0000	46.8
20 C-26	11.214	11.222	-0.008	146196632	50.0000	46.9
22 C-28	11.682	11.723	-0.041	144348659	50.0000	46.6

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
=====	==	=====	=====	=====	=====	=====
115 C-30	12.239	12.249	-0.010	146430165	50.0000	46.9(A)
114 C-36	15.133	15.143	-0.010	129725597	50.0000	44.3(A)
M 24 Alip C19-C36				1137720980	400.000	372

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Date: 10-NOV-2011 14:37

Client ID: 184-15-4

Sample Info: 1400x1 84-15-4

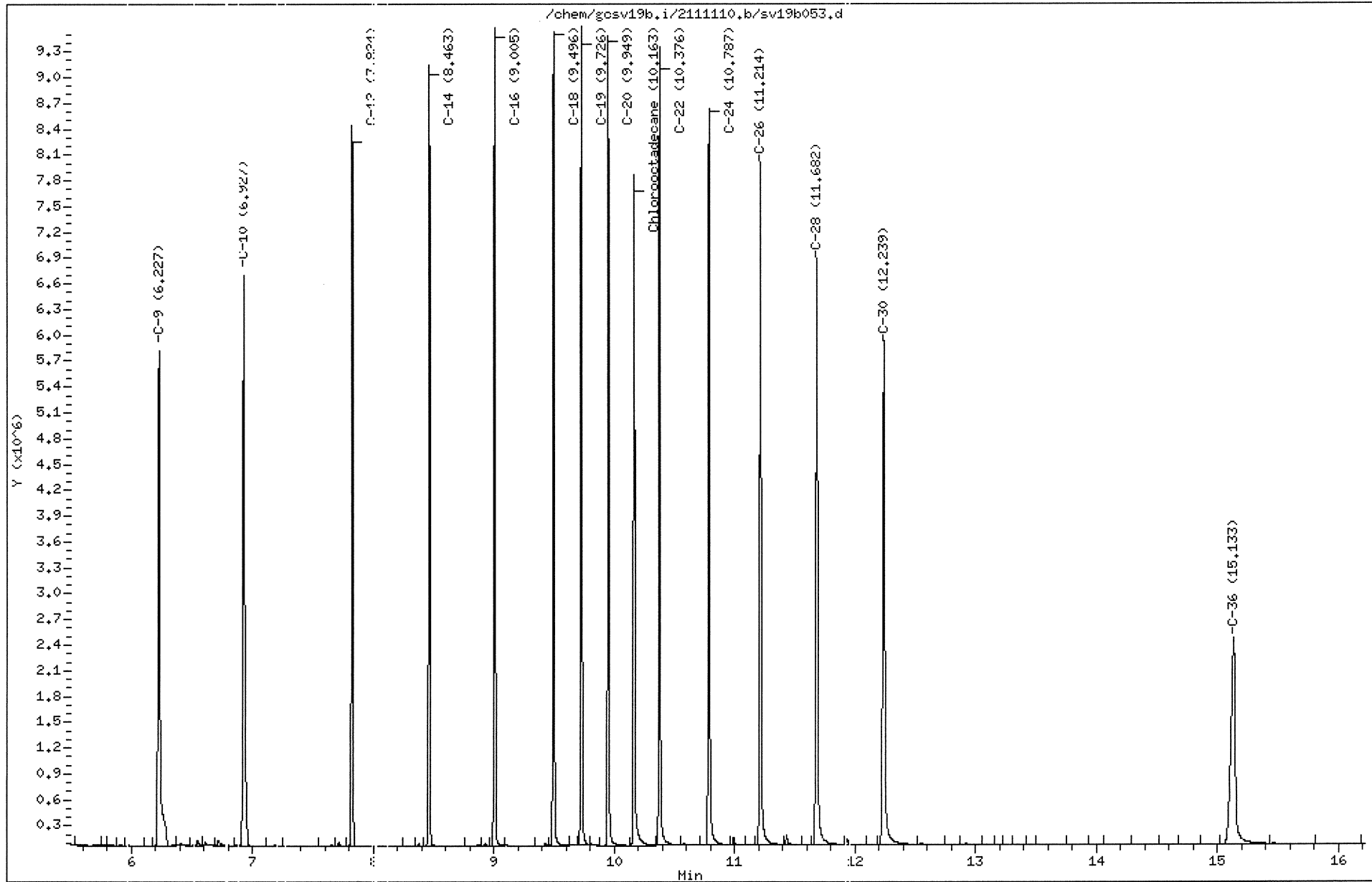
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gosv19b.i

Operator: smh

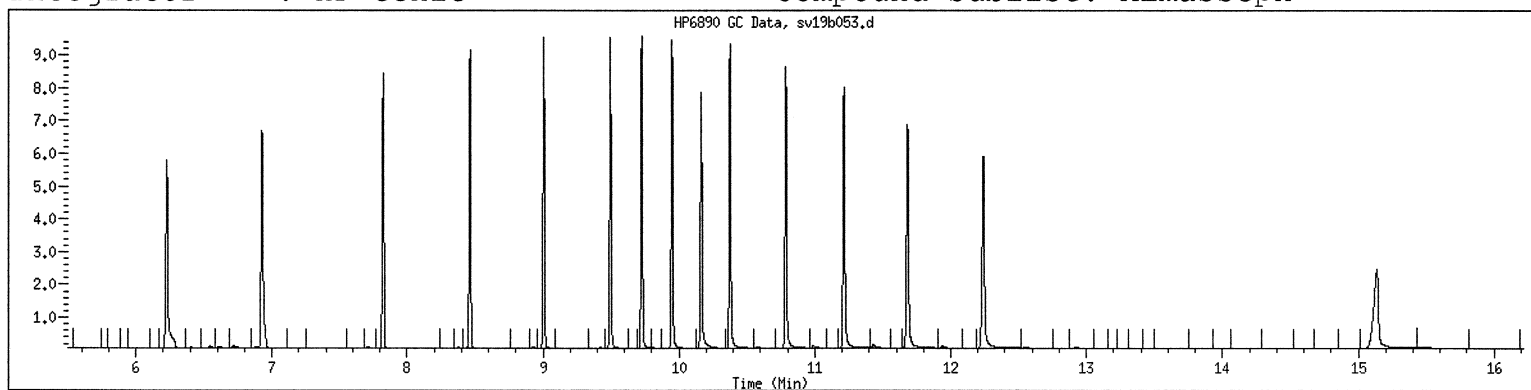
Column diameter: 0.25



211110421 214

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1400 SampleType : CCALIB_3
Injection Date: 11/10/2011 14:37 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1400*1 84-15-4
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv19b.i Injection Date: 10-NOV-2011 19:16
 Lab File ID: sv19b064.d Init. Cal. Date(s): 02-NOV-2011 03-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 15:55 14:30
 Lab Sample ID: 1400 Quant Type: ESTD
 Method: /var/chem/gcsv19b.i/2111110.b/AROEPMass.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	MAX RRF	%D / %DRIFT	CURVE TYPE
|1 Naphthalene	2842159	2638530	0.010	7.16458	25.00000	Averaged
|2 2-Methylnaphthalene	2378988	2227337	0.010	6.37462	25.00000	Averaged
|\$ 3 2-Fluorobiphenyl	2457488	2309148	0.010	6.03623	25.00000	Averaged
|4 Acenaphthylene	2763267	2609326	0.010	5.57096	25.00000	Averaged
|\$ 5 2-Bromonaphthalene	1568778	1541377	0.010	1.74669	25.00000	Averaged
|6 Acenaphthene	2910153	2666069	0.010	8.38733	25.00000	Averaged
|7 Fluorene	2771184	2646356	0.010	4.50450	25.00000	Averaged
|8 Phenanthrene	2760684	2629050	0.010	4.76820	25.00000	Averaged
|9 Anthracene	2653997	2541899	0.010	4.22377	25.00000	Averaged
|\$ 10 O-Terphenyl	2948796	2777283	0.010	5.81637	25.00000	Averaged
|12 Fluoranthene	2821141	2690287	0.010	4.63832	25.00000	Averaged
|13 Pyrene	2855480	2726104	0.010	4.53079	25.00000	Averaged
|14 Benzo(a)Anthracene	2777049	2573062	0.010	7.34547	25.00000	Averaged
|15 Chrysene	2748172	2646508	0.010	3.69933	25.00000	Averaged
|16 Benzo(b)Fluoranthene	2813367	2638572	0.010	6.21302	25.00000	Averaged
|17 Benzo(k)Fluoranthene	2813367	2638572	0.010	6.21302	25.00000	Averaged
|18 Benzo(a)Pyrene	2772685	2658760	0.010	4.10883	25.00000	Averaged
|19 Indo(1,2,3cd)Pyrene	2679052	2591557	0.010	3.26591	25.00000	Averaged
|20 Dibenzo(a,h)Anthracene	2679052	2591557	0.010	3.26591	25.00000	Averaged
|21 Benzo(g,h,i)Perylene	2777993	2748023	0.010	1.07885	25.00000	Averaged
|M 22 Arom C11-C22	2753988	2615386	0.010	5.03275	25.00000	Averaged

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 2.93784
 Maximun Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /chem/gcsv19b.i/2111110.b/sv19b064.d
 Lab Smp Id: 1400 Client Smp ID: 1 84-12-8
 Inj Date : 10-NOV-2011 19:16
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1400*1 84-12-8
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111110.b/AROEPHmass.m
 Meth Date : 11-Nov-2011 16:02 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 64 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: cal.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

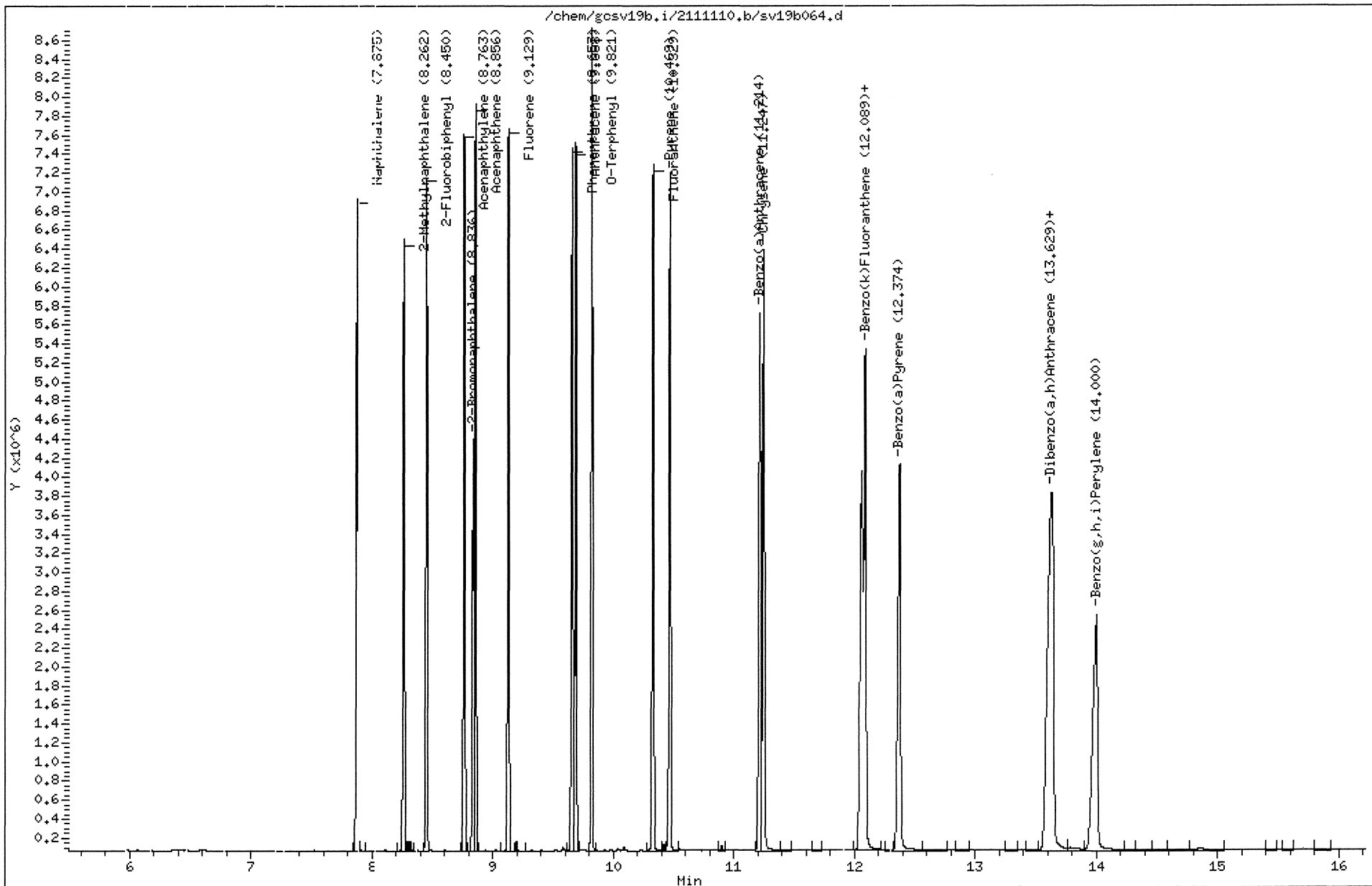
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 Naphthalene	7.875	7.880	-0.005	131926498	50.0000	46.4
2 2-Methylnaphthalene	8.262	8.265	-0.003	111366853	50.0000	46.8
\$ 3 2-Fluorobiphenyl	8.450	8.454	-0.004	115457412	50.0000	47.0
4 Acenaphthylene	8.763	8.766	-0.003	130466308	50.0000	47.2
\$ 5 2-Bromonaphthalene	8.836	8.838	-0.002	77068827	50.0000	49.1
6 Acenaphthene	8.856	8.858	-0.002	133303433	50.0000	45.8
7 Fluorene	9.129	9.132	-0.003	132317824	50.0000	47.7
8 Phenanthrene	9.657	9.657	0.000	131452475	50.0000	47.6
9 Anthracene	9.688	9.688	0.000	127094930	50.0000	47.9
\$ 10 O-Terphenyl	9.821	9.822	-0.001	138864147	50.0000	47.1
12 Fluoranthene	10.329	10.327	0.002	134514358	50.0000	47.7
13 Pyrene	10.469	10.467	0.002	136305219	50.0000	47.7
14 Benzo(a)Anthracene	11.214	11.223	-0.009	128653078	50.0000	46.3
15 Chrysene	11.247	11.250	-0.003	132325413	50.0000	48.2

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
=====	==	=====	=====	=====	=====	=====
16 Benzo(b)Fluoranthene	12.089	12.085	0.004	263857178	100.000	93.8 (M2)
17 Benzo(k)Fluoranthene	12.089	12.085	0.004	263857178	100.000	93.8 (M2)
18 Benzo(a)Pyrene	12.374	12.370	0.004	132938020	50.0000	47.9
19 Indo(1,2,3cd)Pyrene	13.629	13.598	0.031	259155661	100.000	96.7 (M1)
20 Dibenzo(a,h)Anthracene	13.629	13.638	-0.009	259155661	100.000	96.7
21 Benzo(g,h,i)Perylene	14.000	13.997	0.003	137401151	50.0000	49.5
M 22 Arom C11-C22				2223078399	850.000	807

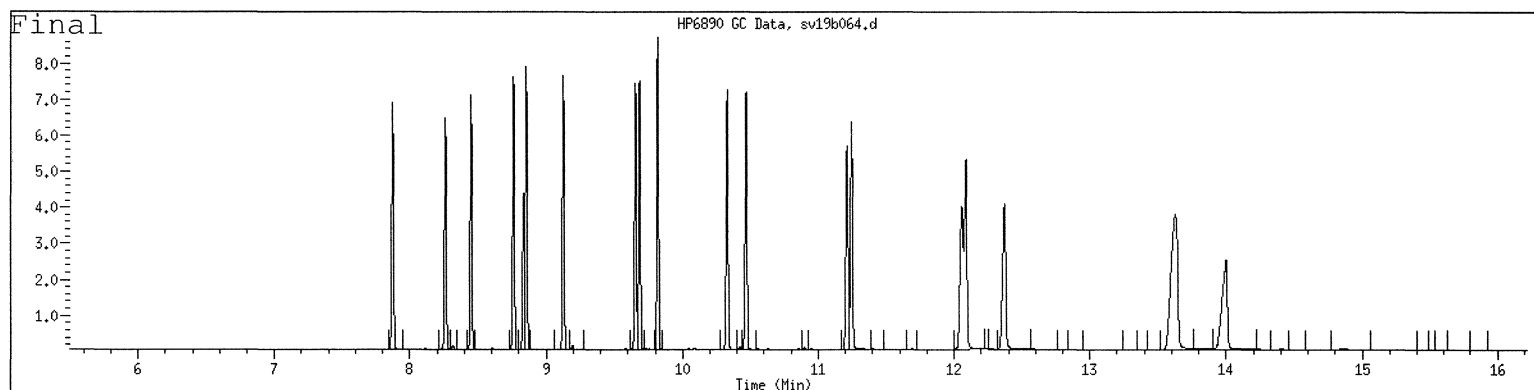
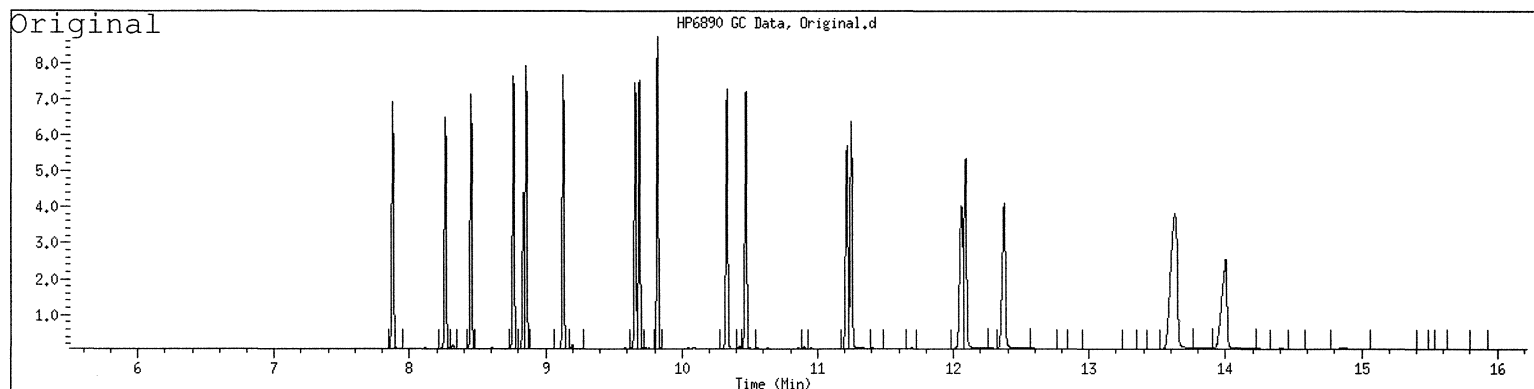
QC Flag Legend

- M1- Compound response manually integrated because Target system did not integrate.
- M2- Compound response manually integrated because Target system integrated incorrectly.



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1400 SampleType : CCALIB_3
Injection Date: 11/10/2011 19:16 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1400*1 84-12-8
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/AROEPMass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: cal



GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv19b.i Injection Date: 10-NOV-2011 19:40
Lab File ID: sv19b065.d Init. Cal. Date(s): 03-NOV-2011 03-NOV-2011
Analysis Type: WATER Init. Cal. Times: 12:55 14:30
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	MAX RRF	%D / %DRIFT	CURVE TYPE
1 C-9	2719340	2659888	0.010	2.18628	25.00000	Averaged
2 C-10	2739215	2728622	0.010	0.38674	25.00000	Averaged
4 C-12	2801460	2758261	0.010	1.54200	25.00000	Averaged
6 C-14	2878136	2797478	0.010	2.80247	25.00000	Averaged
8 C-16	2983102	2910072	0.010	2.44812	25.00000	Averaged
10 C-18	3021289	2857548	0.010	5.41959	25.00000	Averaged
M 11 Alip C9-C18	2857090	2785311	0.010	2.51232	25.00000	Averaged
12 C-19	3017239	2893348	0.010	4.10609	25.00000	Averaged
13 C-20	3045314	2906107	0.010	4.57119	25.00000	Averaged
S 15 Chlorooctadecane	2739581	2653375	0.010	3.14669	25.00000	Averaged
16 C-22	3060647	2937725	0.010	4.01622	25.00000	Averaged
18 C-24	3098402	2950236	0.010	4.78202	25.00000	Averaged
20 C-26	3120089	2991129	0.010	4.13320	25.00000	Averaged
22 C-28	3095987	2998965	0.010	3.13383	25.00000	Averaged
115 C-30	3120341	2959574	0.010	5.15223	25.00000	Averaged
114 C-36	2925634	2744376	0.010	6.19551	25.00000	Averaged
M 24 Alip C19-C36	3060457	2922682	0.010	4.50175	25.00000	Averaged

Average %D / Drift Results.
=====|
Calculated Average %D/Drift = 3.59037 |
Maximum Average %D/Drift = 25.00000 |
* Passed Average %D/Drift Test. |
=====|

GCAL, Inc.

Data file : /chem/gcsv19b.i/2111110.b/sv19b065.d
 Lab Smp Id: 1400 Client Smp ID: 1 84-15-4
 Inj Date : 10-NOV-2011 19:40
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1400*1 84-15-4
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
 Meth Date : 17-Nov-2011 12:26 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 65 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmaseph.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 C-9	6.227	6.232	-0.005	132994388	50.0000	48.9
2 C-10	6.927	6.928	-0.001	136431081	50.0000	49.8
4 C-12	7.824	7.832	-0.008	137913072	50.0000	49.2
6 C-14	8.463	8.471	-0.008	139873879	50.0000	48.6
8 C-16	9.005	9.013	-0.008	145503588	50.0000	48.8
10 C-18	9.495	9.503	-0.008	142877380	50.0000	47.3
M 11 Alip C9-C18				835593388	300.000	293
12 C-19	9.724	9.774	-0.050	144667418	50.0000	47.9
13 C-20	9.947	9.957	-0.010	145305352	50.0000	47.7
\$ 15 Chlorooctadecane	10.161	10.216	-0.055	132668745	50.0000	48.4
16 C-22	10.372	10.383	-0.011	146886232	50.0000	48.0
18 C-24	10.783	10.795	-0.012	147511784	50.0000	47.6
20 C-26	11.209	11.222	-0.013	149556451	50.0000	47.9
22 C-28	11.676	11.723	-0.047	149948227	50.0000	48.4

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
=====	==	=====	=====	=====	=====	=====
115 C-30	12.231	12.249	-0.018	147978676	50.0000	47.4 (A)
114 C-36	15.122	15.143	-0.021	137218811	50.0000	46.9
M 24 Alip C19-C36				1169072951	400.000	382

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Date : 10-NOV-2011 19:40

Client II: 1 84-15-4

Instrument: gcsv19b.i

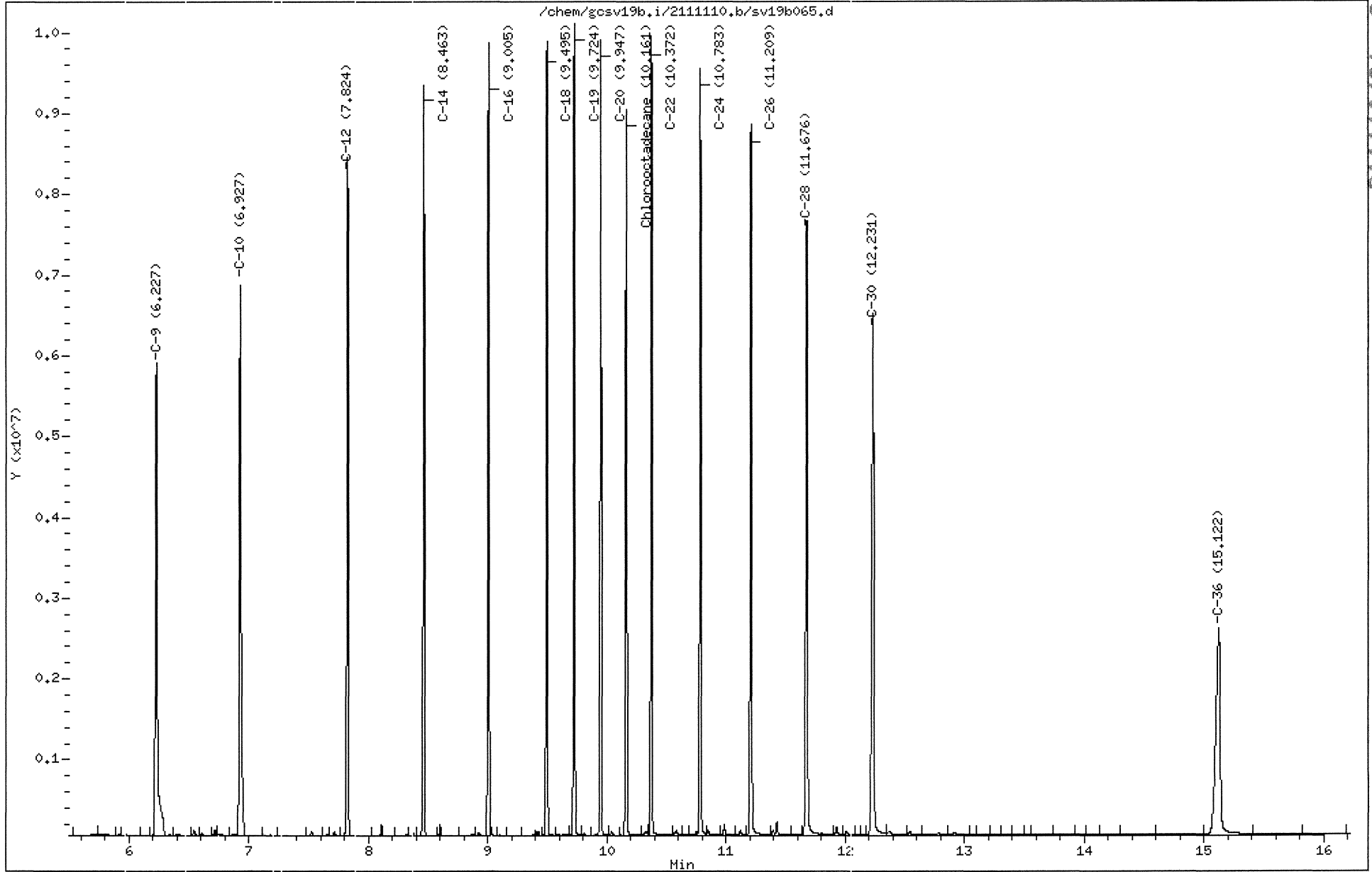
Sample Info: 1400*1 84-15-4

Volume Injected (uL): 1.0

Operator: smh

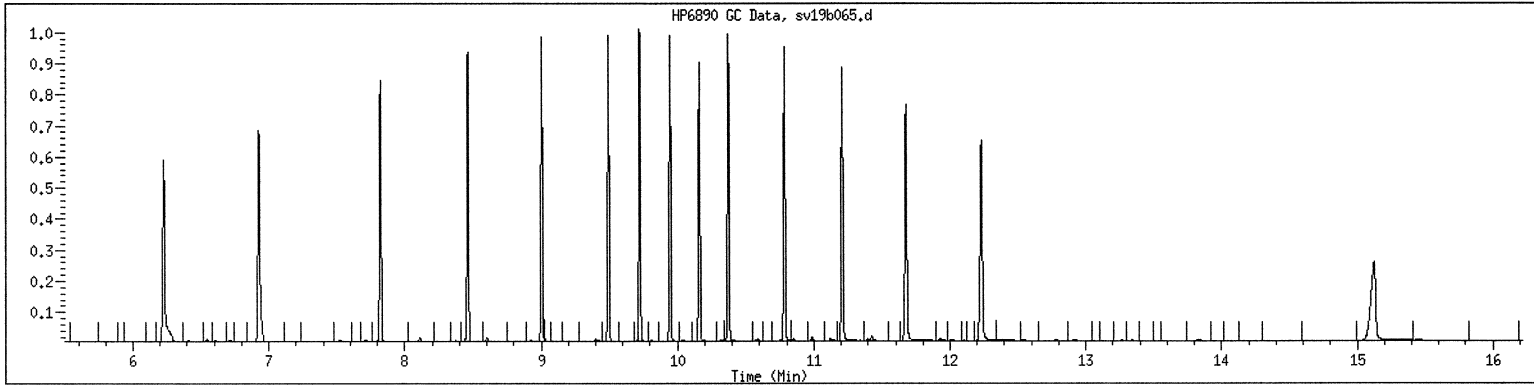
Column phase: DB-5MS-30M

Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1400 SampleType : CCALIB_3
Injection Date: 11/10/2011 19:40 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1400*1 84-15-4
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv19b.i Injection Date: 10-NOV-2011 20:04
 Lab File ID: sv19b066.d Init. Cal. Date(s): 02-NOV-2011 03-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 15:55 14:30
 Lab Sample ID: 1400 Quant Type: ESTD
 Method: /var/chem/gcsv19b.i/2111110.b/AROEPhmass.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	MAX RRF	%D / %DRIFT	CURVE TYPE
|1 Naphthalene	| 2842159|	| 2642965|	| 0.010|	| 7.00852|	| 25.00000|	| Averaged|
|2 2-Methylnaphthalene	| 2378988|	| 2231406|	| 0.010|	| 6.20357|	| 25.00000|	| Averaged|
|\$ 3 2-Fluorobiphenyl	| 2457488|	| 2312112|	| 0.010|	| 5.91564|	| 25.00000|	| Averaged|
|4 Acenaphthylene	| 2763267|	| 2617415|	| 0.010|	| 5.27825|	| 25.00000|	| Averaged|
|\$ 5 2-Bromonaphthalene	| 1568778|	| 1491407|	| 0.010|	| 4.93193|	| 25.00000|	| Averaged|
|6 Acenaphthene	| 2910153|	| 2735628|	| 0.010|	| 5.99711|	| 25.00000|	| Averaged|
|7 Fluorene	| 2771184|	| 2660239|	| 0.010|	| 4.00352|	| 25.00000|	| Averaged|
|8 Phenanthrene	| 2760684|	| 2650152|	| 0.010|	| 4.00381|	| 25.00000|	| Averaged|
|9 Anthracene	| 2653997|	| 2547232|	| 0.010|	| 4.02280|	| 25.00000|	| Averaged|
|\$ 10 O-Terphenyl	| 2948796|	| 2791334|	| 0.010|	| 5.33987|	| 25.00000|	| Averaged|
|12 Fluoranthene	| 2821141|	| 2708728|	| 0.010|	| 3.98464|	| 25.00000|	| Averaged|
|13 Pyrene	| 2855480|	| 2741506|	| 0.010|	| 3.99143|	| 25.00000|	| Averaged|
|14 Benzo(a)Anthracene	| 2777049|	| 2584979|	| 0.010|	| 6.91634|	| 25.00000|	| Averaged|
|15 Chrysene	| 2748172|	| 2670594|	| 0.010|	| 2.82289|	| 25.00000|	| Averaged|
|16 Benzo(b)Fluoranthene	| 2813367|	| 2662129|	| 0.010|	| 5.37567|	| 25.00000|	| Averaged|
|17 Benzo(k)Fluoranthene	| 2813367|	| 2662129|	| 0.010|	| 5.37567|	| 25.00000|	| Averaged|
|18 Benzo(a)Pyrene	| 2772685|	| 2663116|	| 0.010|	| 3.95173|	| 25.00000|	| Averaged|
|19 Indo(1,2,3cd)Pyrene	| 2679052|	| 2615937|	| 0.010|	| 2.35587|	| 25.00000|	| Averaged|
|20 Dibenzo(a,h)Anthracene	| 2679052|	| 2615937|	| 0.010|	| 2.35587|	| 25.00000|	| Averaged|
|21 Benzo(g,h,i)Perylene	| 2777993|	| 2791903|	| 0.010|	| -0.50072|	| 25.00000|	| Averaged|
|M 22 Arom C11-C22	| 2753988|	| 2635412|	| 0.010|	| 4.30561|	| 25.00000|	| Averaged|

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 2.93784
 Maximum Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /chem/gcsv19b.i/2111110.b/sv19b066.d
 Lab Smp Id: 1400 Client Smp ID: 1 84-12-8
 Inj Date : 10-NOV-2011 20:04
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1400*1 84-12-8
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111110.b/AROEPHmass.m
 Meth Date : 11-Nov-2011 16:02 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 64 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: cal.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 Naphthalene	7.875	7.880	-0.005	132148273	50.0000	46.5
2 2-Methylnaphthalene	8.262	8.265	-0.003	111570314	50.0000	46.9
\$ 3 2-Fluorobiphenyl	8.450	8.454	-0.004	115605581	50.0000	47.0
4 Acenaphthylene	8.762	8.766	-0.004	130870729	50.0000	47.4
\$ 5 2-Bromonaphthalene	8.835	8.838	-0.003	74570366	50.0000	47.5
6 Acenaphthene	8.855	8.858	-0.003	136781386	50.0000	47.0
7 Fluorene	9.128	9.132	-0.004	133011968	50.0000	48.0
8 Phenanthrene	9.656	9.657	-0.001	132507595	50.0000	48.0
9 Anthracene	9.686	9.688	-0.002	127361616	50.0000	48.0
\$ 10 O-Terphenyl	9.819	9.822	-0.003	139566694	50.0000	47.3
12 Fluoranthene	10.327	10.327	0.000	135436415	50.0000	48.0
13 Pyrene	10.467	10.467	0.000	137075288	50.0000	48.0
14 Benzo(a)Anthracene	11.212	11.223	-0.011	129248928	50.0000	46.5
15 Chrysene	11.244	11.250	-0.006	133529716	50.0000	48.6

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
16 Benzo(b)Fluoranthene	12.086	12.085	0.001	266212932	100.000	94.6 (M2)
17 Benzo(k)Fluoranthene	12.086	12.085	0.001	266212932	100.000	94.6 (M2)
18 Benzo(a)Pyrene	12.371	12.370	0.001	133155810	50.0000	48.0
19 Indo(1,2,3cd)Pyrene	13.628	13.598	0.030	261593698	100.000	97.6 (M1)
20 Dibenzo(a,h)Anthracene	13.628	13.638	-0.010	261593698	100.000	97.6
21 Benzo(g,h,i)Perylene	13.999	13.997	0.002	139595158	50.0000	50.3
M 22 Arom C11-C22				2240099826	850.000	813

QC Flag Legend

- M1- Compound response manually integrated because Target system did not integrate.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Date : 10-NOV-2011 20:04

Client II: 1 84-12-8

Sample Info: 1400*1 84-12-8

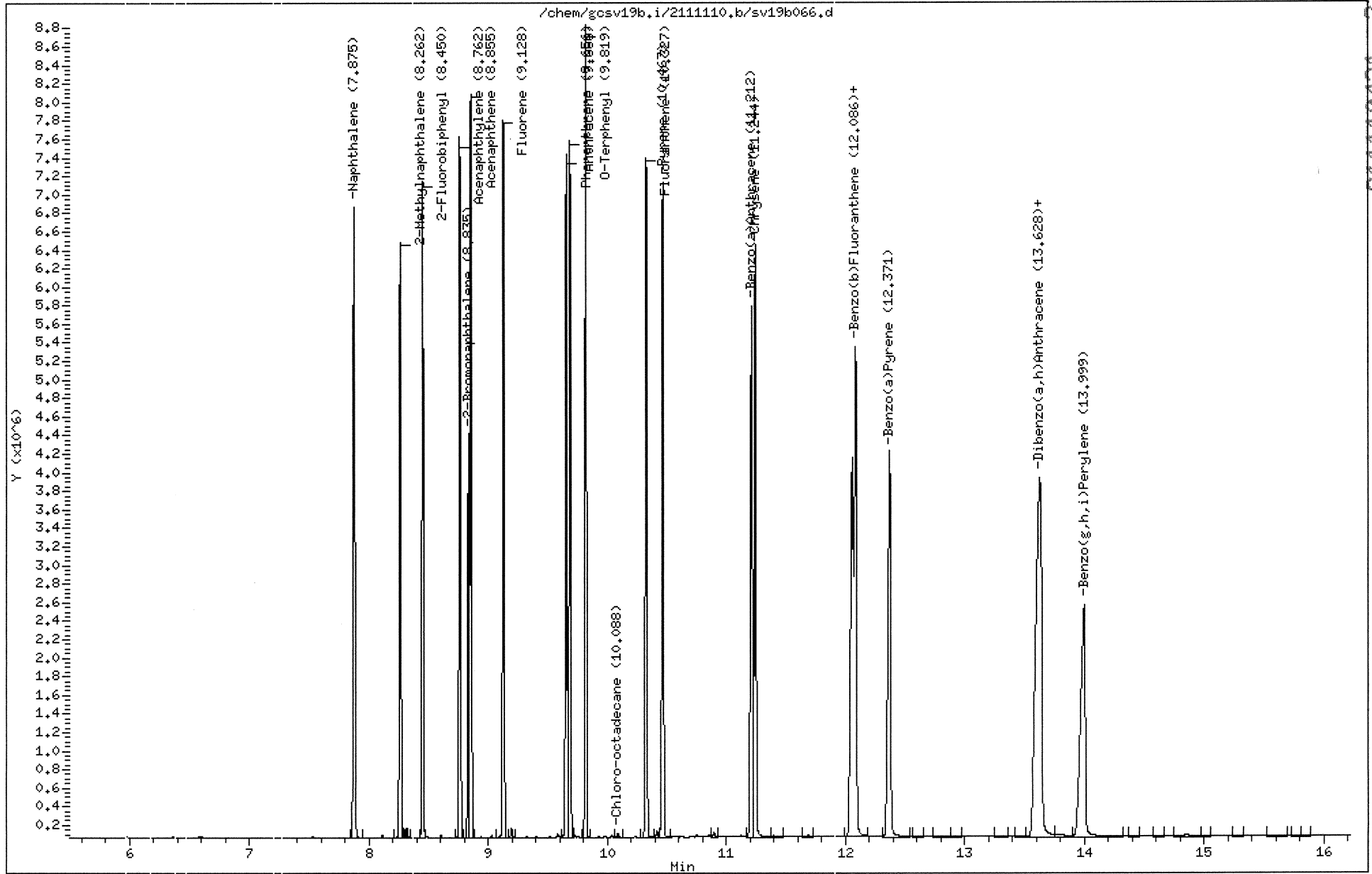
Volume Injected (uL): 1.0

Column phase: IB-5MS-30M

Instrument: gcsv19b.i

Operator: smh

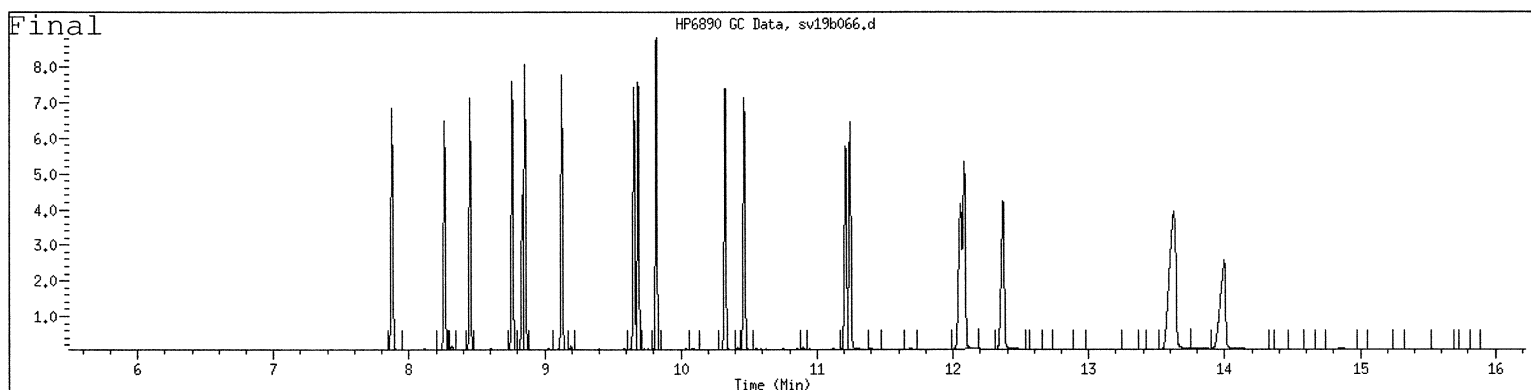
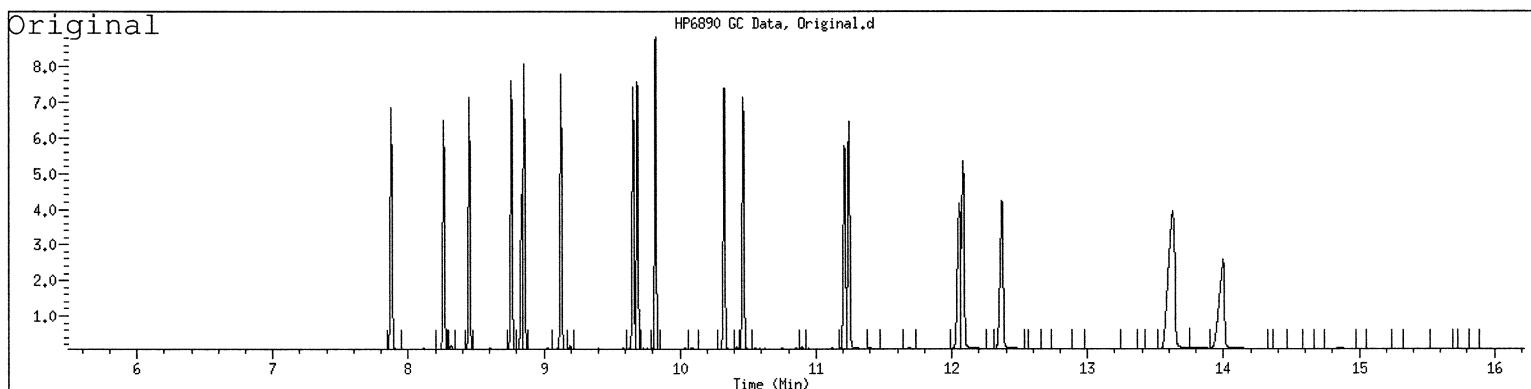
Column diameter: 0.25



211110421 229

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1400 SampleType : CCALIB_3
Injection Date: 11/10/2011 20:04 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1400*1 84-12-8
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/AROEPMass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: cal



GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv19b.i Injection Date: 10-NOV-2011 20:28
 Lab File ID: sv19b067.d Init. Cal. Date(s): 03-NOV-2011 03-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 12:55 14:30
 Lab Sample ID: 1400 Quant Type: ESTD
 Method: /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 C-9	2719340	2595159	0.010	4.56659	25.00000	Averaged
2 C-10	2739215	2674884	0.010	2.34853	25.00000	Averaged
4 C-12	2801460	2701654	0.010	3.56266	25.00000	Averaged
6 C-14	2878136	2749952	0.010	4.45371	25.00000	Averaged
8 C-16	2983102	2863214	0.010	4.01891	25.00000	Averaged
10 C-18	3021289	2811890	0.010	6.93079	25.00000	Averaged
M 11 Alip C9-C18	2857090	2732792	0.010	4.35052	25.00000	Averaged
12 C-19	3017239	2853082	0.010	5.44065	25.00000	Averaged
13 C-20	3045314	2865971	0.010	5.88913	25.00000	Averaged
\$ 15 Chlorooctadecane	2739581	2610135	0.010	4.72504	25.00000	Averaged
16 C-22	3060647	2912497	0.010	4.84048	25.00000	Averaged
18 C-24	3098402	2920370	0.010	5.74594	25.00000	Averaged
20 C-26	3120089	2948477	0.010	5.50022	25.00000	Averaged
22 C-28	3095987	2920634	0.010	5.66389	25.00000	Averaged
115 C-30	3120341	2925022	0.010	6.25954	25.00000	Averaged
114 C-36	2925634	2747737	0.010	6.08063	25.00000	Averaged
M 24 Alip C19-C36	3060457	2886724	0.010	5.67670	25.00000	Averaged

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 3.59037
 Maximum Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /chem/gcsv19b.i/2111110.b/sv19b067.d
 Lab Smp Id: 1400 Client Smp ID: 1 84-15-4
 Inj Date : 10-NOV-2011 20:28
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1400*1 84-15-4
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
 Meth Date : 17-Nov-2011 12:26 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 65 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 C-9	6.226	6.232	-0.006	129757950	50.0000	47.7
2 C-10	6.926	6.928	-0.002	133744206	50.0000	48.8
4 C-12	7.824	7.832	-0.008	135082679	50.0000	48.2
6 C-14	8.462	8.471	-0.009	137497622	50.0000	47.8
8 C-16	9.004	9.013	-0.009	143160681	50.0000	48.0
10 C-18	9.493	9.503	-0.010	140594499	50.0000	46.5
M 11 Alip C9-C18				819837637	300.000	287
12 C-19	9.723	9.774	-0.051	142654078	50.0000	47.3
13 C-20	9.944	9.957	-0.013	143298570	50.0000	47.1
\$ 15 Chlorooctadecane	10.158	10.216	-0.058	130506738	50.0000	47.6
16 C-22	10.369	10.383	-0.014	145624855	50.0000	47.6
18 C-24	10.779	10.795	-0.016	146018488	50.0000	47.1
20 C-26	11.203	11.222	-0.019	147423847	50.0000	47.2
22 C-28	11.670	11.723	-0.053	146031701	50.0000	47.2

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
=====	==	=====	=====	=====	=====	=====
115 C-30	12.224	12.249	-0.025	146251088	50.0000	46.9 (A)
114 C-36	15.115	15.143	-0.028	137386852	50.0000	47.0 (A)
M 24 Alip C19-C36				1154689479	400.000	377

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Date : 10-NOV-2011 20:28

Client ID: 1 84-15-4

Instrument: gcsv19b.i

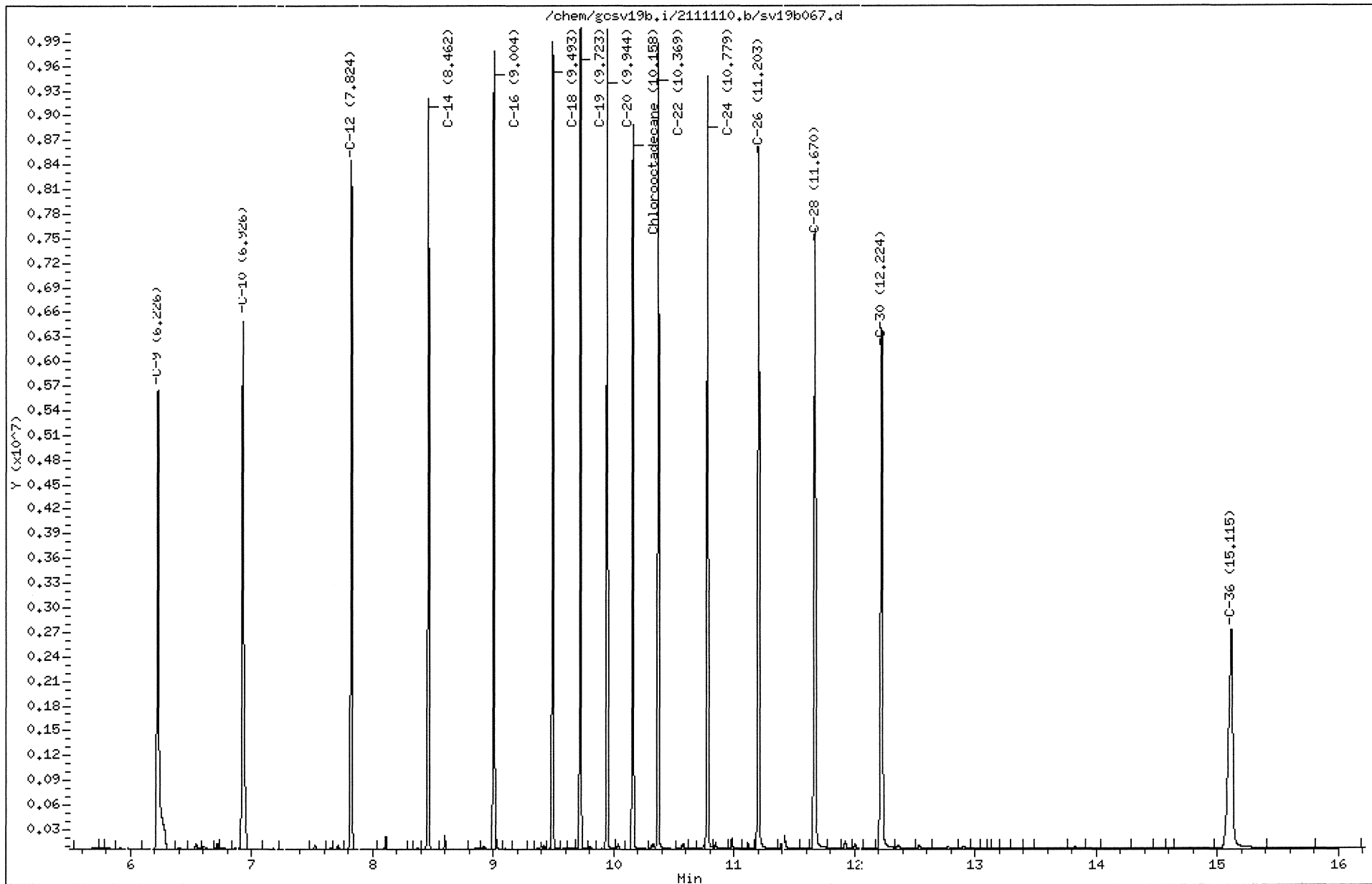
Sample Info: 1400*1 84-15-4

Volume Injected (uL): 1.0

Operator: smh

Column phase: DB-5MS-30M

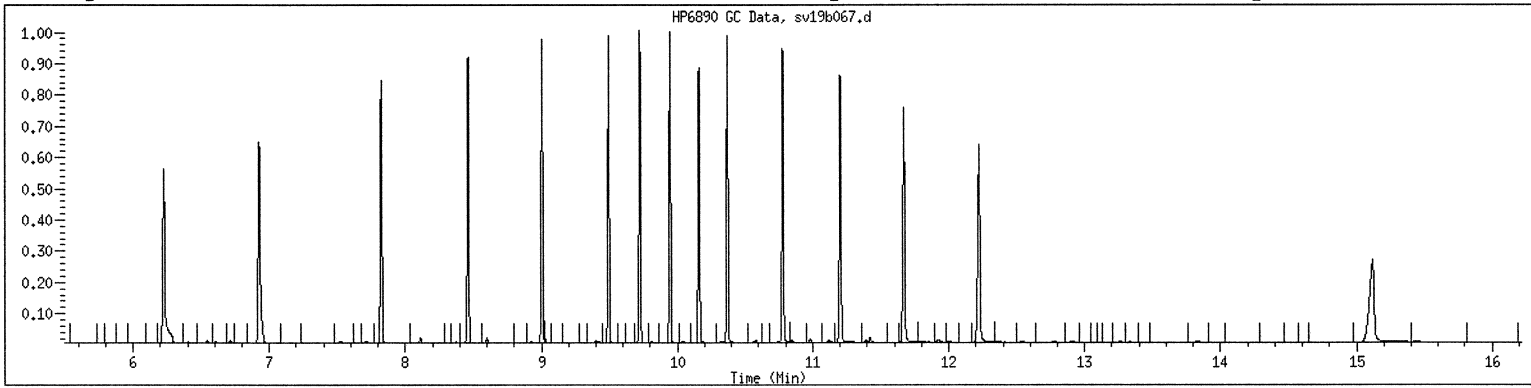
Column diameter: 0.25



211110421 234

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1400 SampleType : CCALIB_3
Injection Date: 11/10/2011 20:28 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1400*1 84-15-4
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv19b.i Injection Date: 11-NOV-2011 00:54
 Lab File ID: sv19b078.d Init. Cal. Date(s): 02-NOV-2011 03-NOV-2011
 Analysis Type: WATER Init. Cal. Times: 15:55 14:30
 Lab Sample ID: 1400 Quant Type: ESTD
 Method: /var/chem/gcsv19b.i/2111110.b/AROEPHmass.m

COMPOUND	RRF / AMOUNT	RF50	MIN		MAX		CURVE TYPE
			RRF	%D / %DRIFT	%D	%DRIFT	
11 Naphthalene	2842159	2722174	0.010	4.22163	25.00000	Averaged	
12 2-Methylnaphthalene	2378988	2297678	0.010	3.41786	25.00000	Averaged	
13 2-Fluorobiphenyl	2457488	2379257	0.010	3.18338	25.00000	Averaged	
14 Acenaphthylene	2763267	2697278	0.010	2.38806	25.00000	Averaged	
15 2-Bromonaphthalene	1568778	1600937	0.010	-2.04990	25.00000	Averaged	
16 Acenaphthene	2910153	2736444	0.010	5.96906	25.00000	Averaged	
17 Fluorene	2771184	2729161	0.010	1.51646	25.00000	Averaged	
18 Phenanthrene	2760684	2724911	0.010	1.29583	25.00000	Averaged	
19 Anthracene	2653997	2633932	0.010	0.75603	25.00000	Averaged	
10 O-Terphenyl	2948796	2874302	0.010	2.52625	25.00000	Averaged	
12 Fluoranthene	2821141	2795585	0.010	0.90585	25.00000	Averaged	
13 Pyrene	2855480	2836140	0.010	0.67729	25.00000	Averaged	
14 Benzo(a)Anthracene	2777049	2768248	0.010	0.31692	25.00000	Averaged	
15 Chrysene	2748172	2686329	0.010	2.25033	25.00000	Averaged	
16 Benzo(b)Fluoranthene	2813367	2758314	0.010	1.95682	25.00000	Averaged	
17 Benzo(k)Fluoranthene	2813367	2758314	0.010	1.95682	25.00000	Averaged	
18 Benzo(a)Pyrene	2772685	2773561	0.010	-0.03159	25.00000	Averaged	
19 Indo(1,2,3cd)Pyrene	2679052	2695641	0.010	-0.61922	25.00000	Averaged	
20 Dibenzo(a,h)Anthracene	2679052	2695641	0.010	-0.61922	25.00000	Averaged	
21 Benzo(g,h,i)Perylene	2777993	2858854	0.010	-2.91076	25.00000	Averaged	
22 Arom C11-C22	2753988	2715777	0.010	1.38748	25.00000	Averaged	

Average %D / Drift Results.
 =====
 Calculated Average %D/Drift = 2.93784
 Maximun Average %D/Drift = 25.00000
 * Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /chem/gcsv19b.i/2111110.b/sv19b078.d
 Lab Smp Id: 1400 Client Smp ID: 1 84-12-8
 Inj Date : 11-NOV-2011 00:54
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1400*1 84-12-8
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111110.b/AROEPMass.m
 Meth Date : 11-Nov-2011 16:02 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 78 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: cal.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 Naphthalene	7.875	7.880	-0.005	136108675	50.0000	47.9
2 2-Methylnaphthalene	8.262	8.265	-0.003	114883891	50.0000	48.3
\$ 3 2-Fluorobiphenyl	8.450	8.454	-0.004	118962830	50.0000	48.4
4 Acenaphthylene	8.761	8.766	-0.005	134863909	50.0000	48.8
\$ 5 2-Bromonaphthalene	8.835	8.838	-0.003	80046832	50.0000	51.0
6 Acenaphthene	8.854	8.858	-0.004	136822196	50.0000	47.0
7 Fluorene	9.127	9.132	-0.005	136458026	50.0000	49.2
8 Phenanthrene	9.653	9.657	-0.004	136245536	50.0000	49.4
9 Anthracene	9.683	9.688	-0.005	131696619	50.0000	49.6
\$ 10 O-Terphenyl	9.815	9.822	-0.007	143715086	50.0000	48.7
12 Fluoranthene	10.318	10.327	-0.009	139779269	50.0000	49.5
13 Pyrene	10.456	10.467	-0.011	141807007	50.0000	49.7
14 Benzo(a)Anthracene	11.228	11.223	0.005	138412383	50.0000	49.8
15 Chrysene	11.196	11.250	-0.054	134316458	50.0000	48.9

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
=====	==	=====	=====	=====	=====	=====
16 Benzo(b)Fluoranthene	12.065	12.085	-0.020	275831415	100.000	98.0 (M2)
17 Benzo(k)Fluoranthene	12.065	12.085	-0.020	275831415	100.000	98.0 (M2)
18 Benzo(a)Pyrene	12.348	12.370	-0.022	138678057	50.0000	50.0
19 Indo(1,2,3cd)Pyrene	13.600	13.598	0.002	269564115	100.000	101 (M1)
20 Dibenzo(a,h)Anthracene	13.600	13.638	-0.038	269564115	100.000	101
21 Benzo(g,h,i)Perylene	13.973	13.997	-0.024	142942692	50.0000	51.5
M 22 Arom C11-C22				2308410248	850.000	838

QC Flag Legend

- M1- Compound response manually integrated because Target system did not integrate.
- M2- Compound response manually integrated because Target system integrated incorrectly.

Date : 11-NOV-2011 00:54

Client ID: 1 84-12-8

Sample Info: 1400*1 84-12-E

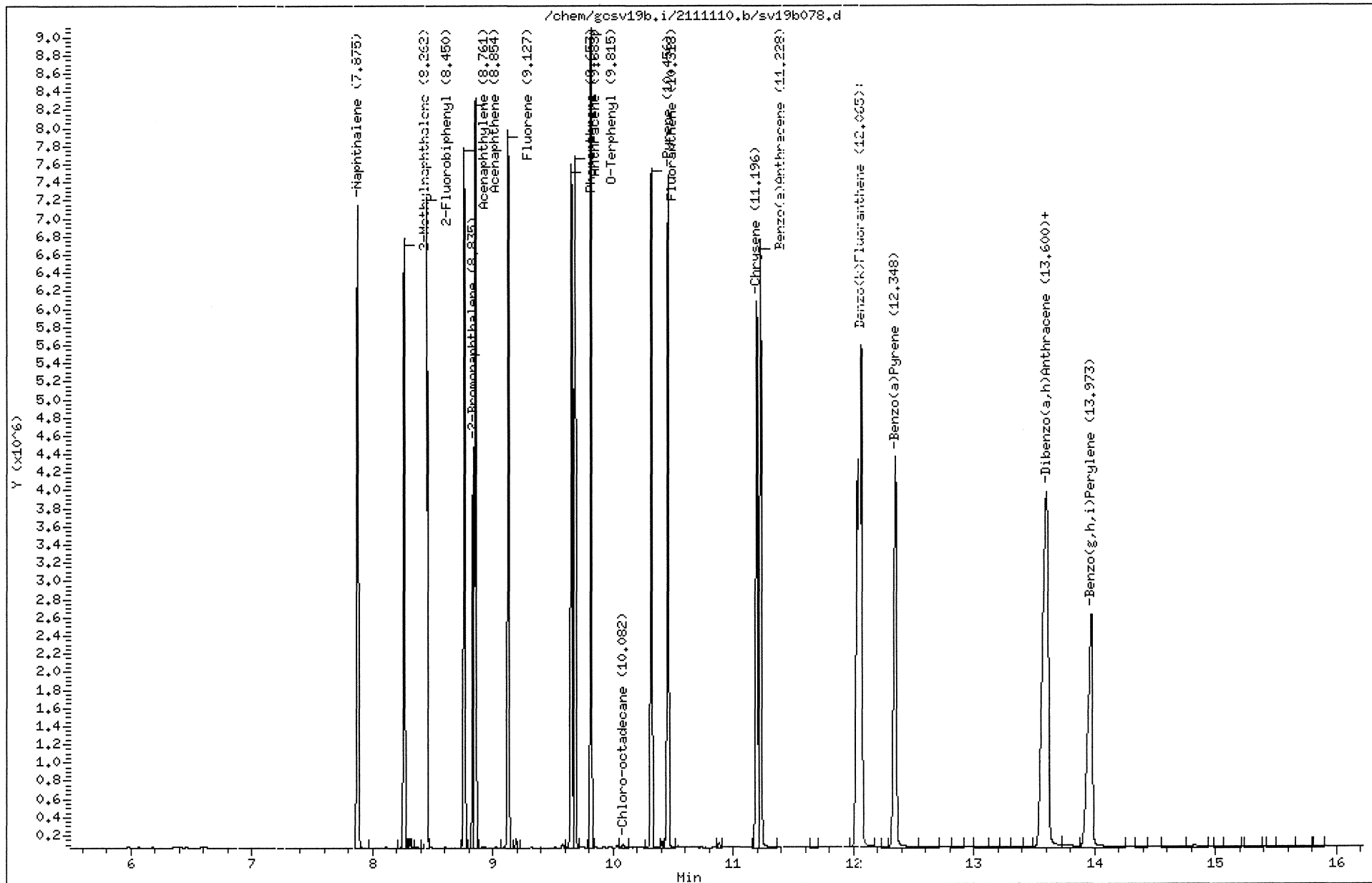
Volume Injected (uL): 1.0

Column phase: DB-5MS-30M

Instrument: gcsv19b.i

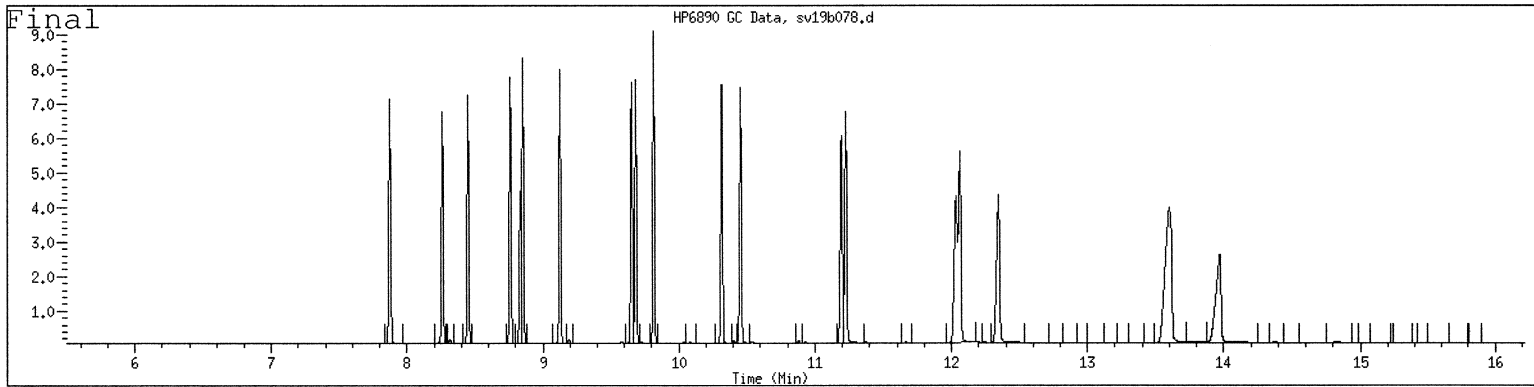
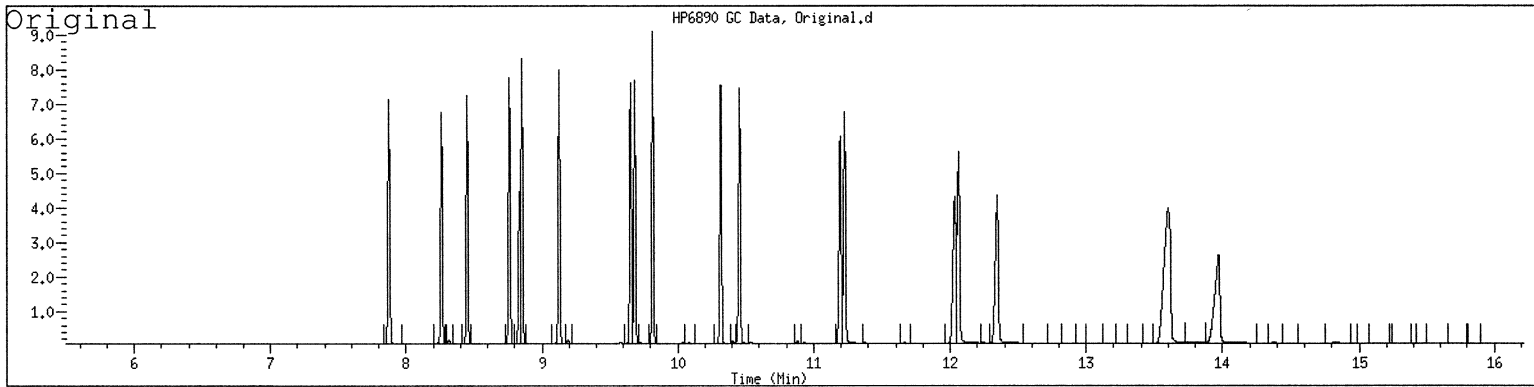
Operator: smh

Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1400 SampleType : CCALIB_3
Injection Date: 11/11/2011 00:54 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1400*1 84-12-8
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/AROEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: cal



GCAL, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcsv19b.i Injection Date: 11-NOV-2011 01:18
Lab File ID: sv19b079.d Init. Cal. Date(s): 03-NOV-2011 03-NOV-2011
Analysis Type: WATER Init. Cal. Times: 12:55 14:30
Lab Sample ID: 1400 Quant Type: ESTD
Method: /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
1 C-9	2719340	2535559	0.010	6.75829	25.00000	Averaged
2 C-10	2739215	2603184	0.010	4.96608	25.00000	Averaged
4 C-12	2801460	2633816	0.010	5.98416	25.00000	Averaged
6 C-14	2878136	2682002	0.010	6.81465	25.00000	Averaged
8 C-16	2983102	2774406	0.010	6.99594	25.00000	Averaged
10 C-18	3021289	2770851	0.010	8.28913	25.00000	Averaged
M 11 Alip C9-C18	2857090	2666636	0.010	6.66602	25.00000	Averaged
12 C-19	3017239	2775880	0.010	7.99933	25.00000	Averaged
13 C-20	3045314	2803868	0.010	7.92845	25.00000	Averaged
15 Chlorooctadecane	2739581	2561566	0.010	6.49789	25.00000	Averaged
16 C-22	3060647	2832289	0.010	7.46112	25.00000	Averaged
18 C-24	3098402	2856022	0.010	7.82274	25.00000	Averaged
20 C-26	3120089	2880208	0.010	7.68827	25.00000	Averaged
22 C-28	3095987	2831191	0.010	8.55290	25.00000	Averaged
115 C-30	3120341	2878931	0.010	7.73665	25.00000	Averaged
114 C-36	2925634	2673515	0.010	8.61760	25.00000	Averaged
M 24 Alip C19-C36	3060457	2816488	0.010	7.97165	25.00000	Averaged

Average %D / Drift Results.
=====

Calculated Average %D/Drift =	3.59037
Maximum Average %D/Drift =	25.00000

* Passed Average %D/Drift Test.

GCAL, Inc.

Data file : /chem/gcsv19b.i/2111110.b/sv19b079.d
 Lab Smp Id: 1400 Client Smp ID: 1 84-15-4
 Inj Date : 11-NOV-2011 01:18
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1400*1 84-15-4
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
 Meth Date : 17-Nov-2011 12:26 smh Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 79 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
1 C-9	6.225	6.232	-0.007	126777961	50.0000	46.6
2 C-10	6.927	6.928	-0.001	130159189	50.0000	47.5
4 C-12	7.824	7.832	-0.008	131690814	50.0000	47.0
6 C-14	8.462	8.471	-0.009	134100079	50.0000	46.6
8 C-16	9.003	9.013	-0.010	138720289	50.0000	46.5
10 C-18	9.490	9.503	-0.013	138542527	50.0000	45.9
M 11 Alip C9-C18				799990859	300.000	280
12 C-19	9.718	9.774	-0.056	138794001	50.0000	46.0
13 C-20	9.938	9.957	-0.019	140193390	50.0000	46.0
\$ 15 Chlorooctadecane	10.150	10.216	-0.066	128078306	50.0000	46.8
16 C-22	10.358	10.383	-0.025	141614428	50.0000	46.3
18 C-24	10.763	10.795	-0.032	142801102	50.0000	46.1
20 C-26	11.183	11.222	-0.039	144010380	50.0000	46.2
22 C-28	11.646	11.723	-0.077	141559532	50.0000	45.7

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS	
					CAL-AMT (UG/ML)	ON-COL (UG/ML)
=====	==	=====	=====	=====	=====	=====
115 C-30	12.197	12.249	-0.052	143946534	50.0000	46.1 (A)
114 C-36	15.081	15.143	-0.062	133675738	50.0000	45.7 (A)
M 24 Alip C19-C36				1126595105	400.000	368

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Date : 11-NOV-2011 01:18

Client ID: 1 84-15-4

Instrument: gcsv19b.i

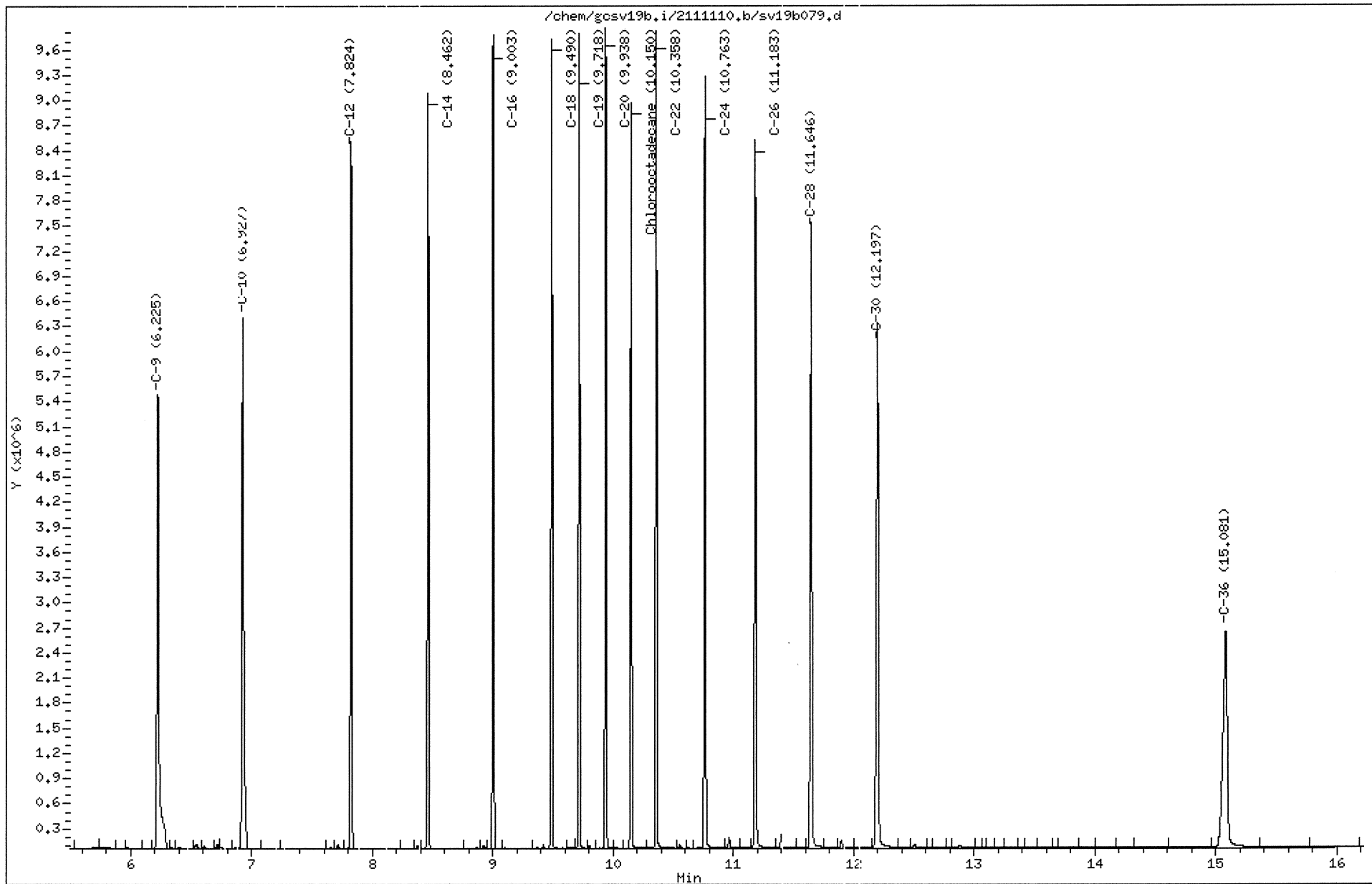
Sample Info: 1400*1 84-15-4

Volume Injected (uL): 1.0

Operator: smh

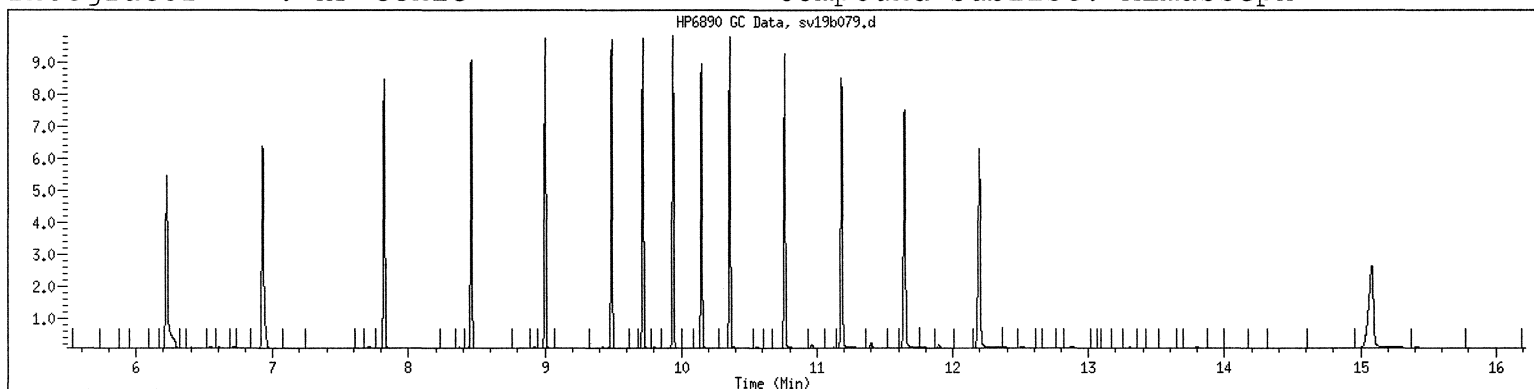
Column phase: DB-5MS-30M

Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1400 SampleType : CCALIB_3
Injection Date: 11/11/2011 01:18 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1400*1 84-15-4
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: MB1004104
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211110421
 Sample wt/vol: 1000 Units: mL Lab Sample ID: 1004104
 Level: (low/med) LOW Date Collected: _____ Time: _____
 % Moisture: _____ decanted: (Y/N) _____ Date Received: _____
 GC Column: DB-5MS-30M ID: .25 (mm) Date Extracted: 11/08/11
 Concentrated Extract Volume: 2000 (µL) Date Analyzed: 11/10/11 Time: 1515
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: SMH
 Injection Volume: 1 (µL) Prep Method: MASS EPH
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSEPH
 Prep Batch: 468721 Analytical Batch: 469140 Sulfur Cleanup: (Y/N) N Instrument ID: GCS19B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111110/sv19b054

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCSV-02-22	C11-C22 Aromatics	42.1	U	42.1	42.1	100
GCSV-02-23	C9-C18 Aliphatic Hydrocarbons	21.8	U	21.8	21.8	100
GCSV-02-24	C19-C36 Aliphatic Hydrocarbons	60.0	U	31.3	60.0	100

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111110.b/sv19b054.d
Lab Smp Id: 1004104 Client Smp ID: 1 MB
Inj Date : 10-NOV-2011 15:15
Operator : smh Inst ID: gcsv19b.i
Smp Info : 1004104*1 MB
Misc Info :
Comment :
Method : /var/chem/gcsv19b.i/2111110.b/AROEPhmass.m
Meth Date : 11-Nov-2011 15:43 dlb Quant Type: ESTD
Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
Als bottle: 54
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: all.sub
Target Version: 3.50
Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
\$ 3 2-Fluorobiphenyl	8.448	8.454	-0.006	39667720	16.1416	32.3
\$ 5 2-Bromonaphthalene	8.833	8.838	-0.005	29843186	19.0232	38.0
\$ 10 O-Terphenyl	9.828	9.822	0.006	47260177	16.0269	32.1
\$ 11 Chloro-octadecane	10.176	10.158	0.018	35257119	12.8699	25.7
M 113 Total Surrogate Area				152028202		(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

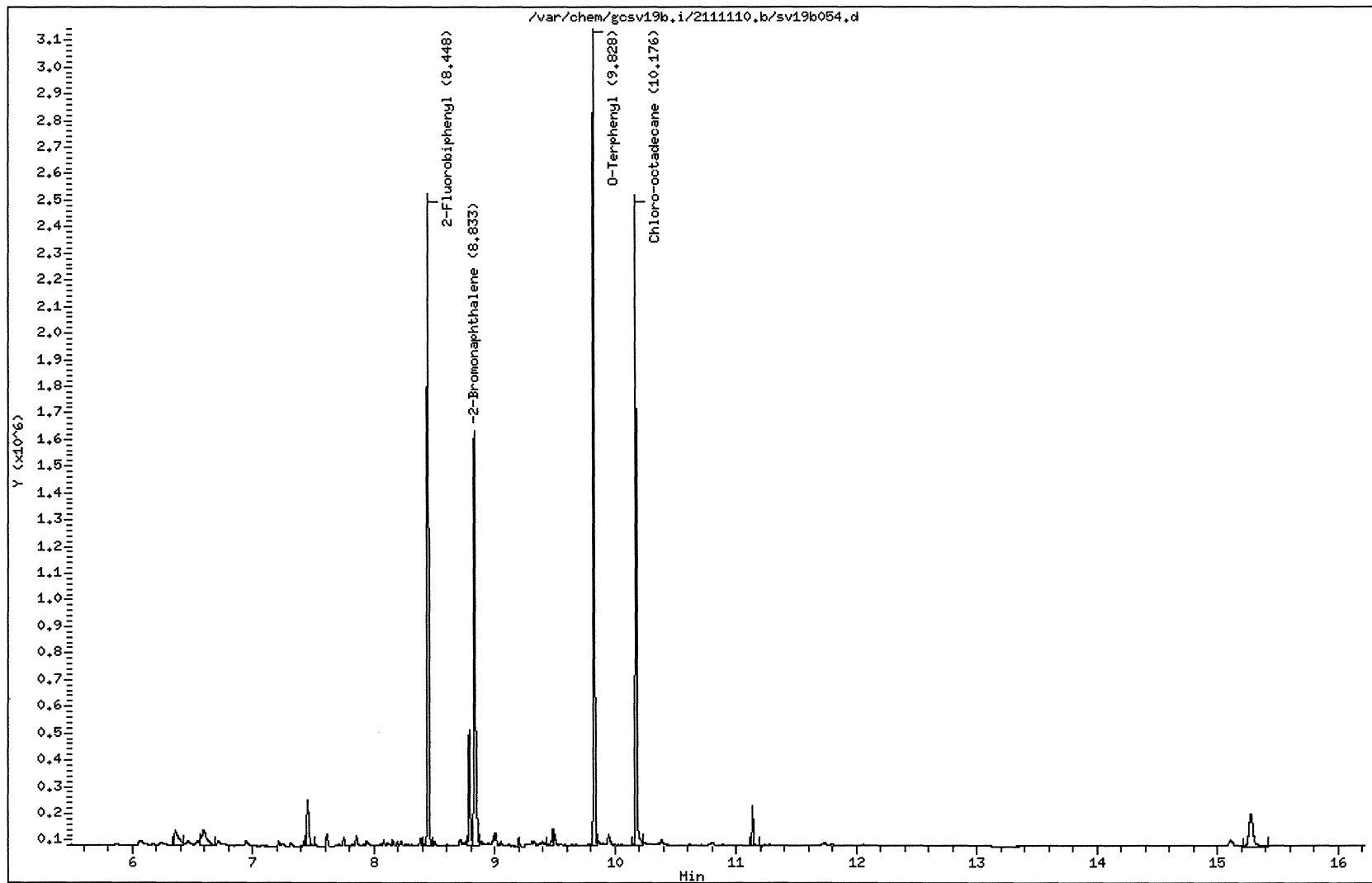
Data File: /var/chem/gosv19b.i/2111110,b/sv19b054.d
Date : 10-NOV-2011 15:15
Client ID: 1 MB
Sample Info: 1004104*1 MB
Volume Injected (uL): 1.0
Column phase: DB-5MS-30M

Page 1

Instrument: gosv19b.i

Operator: smh

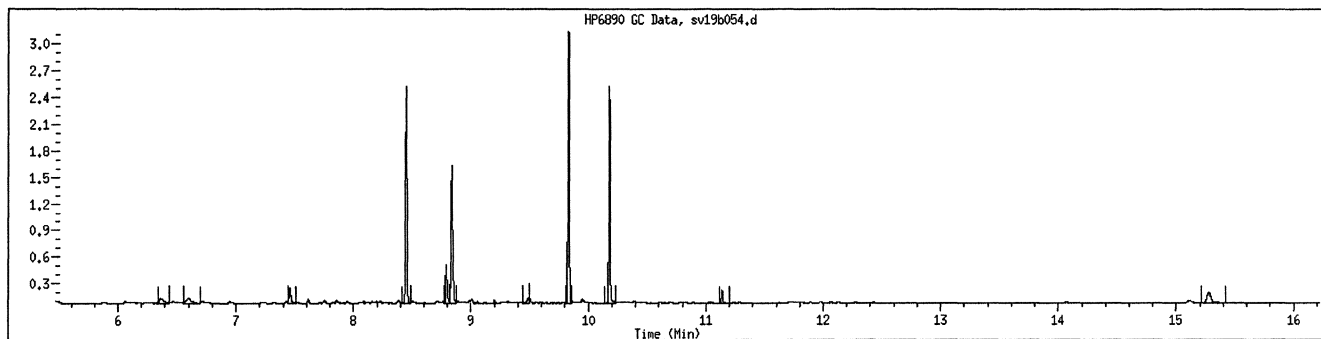
Column diameter: 0.25



211110421 248

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1004104 SampleType : SAMPLE
Injection Date: 11/10/2011 15:15 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1004104*1 MB
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/AROEPMass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all



NO MANUAL INTEGRATIONS

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: LCS1004105
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211110421
 Sample wt/vol: 1000 Units: mL Lab Sample ID: 1004105
 Level: (low/med) LOW Date Collected: _____ Time: _____
 % Moisture: _____ decanted: (Y/N) _____ Date Received: _____
 GC Column: DB-5MS-30M ID: .25 (mm) Date Extracted: 11/08/11
 Concentrated Extract Volume: 2000 (µL) Date Analyzed: 11/10/11 Time: 1603
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: SMH
 Injection Volume: 1 (µL) Prep Method: MASS EPH
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSEPH
 Prep Batch: 468721 Analytical Batch: 469140 Sulfur Cleanup: (Y/N) N Instrument ID: GCS19B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111110/sv19b056

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCSV-02-22	C11-C22 Aromatics	188		42.1	42.1	100
GCSV-02-23	C9-C18 Aliphatic Hydrocarbons	51.9	J	21.8	21.8	100
GCSV-02-24	C19-C36 Aliphatic Hydrocarbons	101		31.3	60.0	100

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111110.b/sv19b056.d
 Lab Smp Id: 1004105 Client Smp ID: 1 LCS
 Inj Date : 10-NOV-2011 16:03
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1004105*1 LCS
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111110.b/AROEPMass.m
 Meth Date : 11-Nov-2011 15:43 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 56 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 Naphthalene	7.871	7.880	-0.009	47838120	16.8316	33.7
\$ 3 2-Fluorobiphenyl	8.448	8.454	-0.006	46838239	19.0594	38.1
\$ 5 2-Bromonaphthalene	8.833	8.838	-0.005	27212745	17.3465	34.7
6 Acenaphthene	8.850	8.858	-0.008	60129675	20.6620	41.3
9 Anthracene	9.682	9.688	-0.006	50757402	19.1249	38.2
\$ 10 O-Terphenyl	9.818	9.822	-0.004	48148931	16.3283	32.7
\$ 11 Chloro-octadecane	10.160	10.158	0.002	25956734	9.47499	18.9
13 Pyrene	10.465	10.467	-0.002	52673131	18.4463	36.9
15 Chrysene	11.239	11.250	-0.011	52294743	19.0289	38.1
M 22 Arom C11-C22				263693071	94.0938	188
M 113 Total Surrogate Area				148156649		(a)

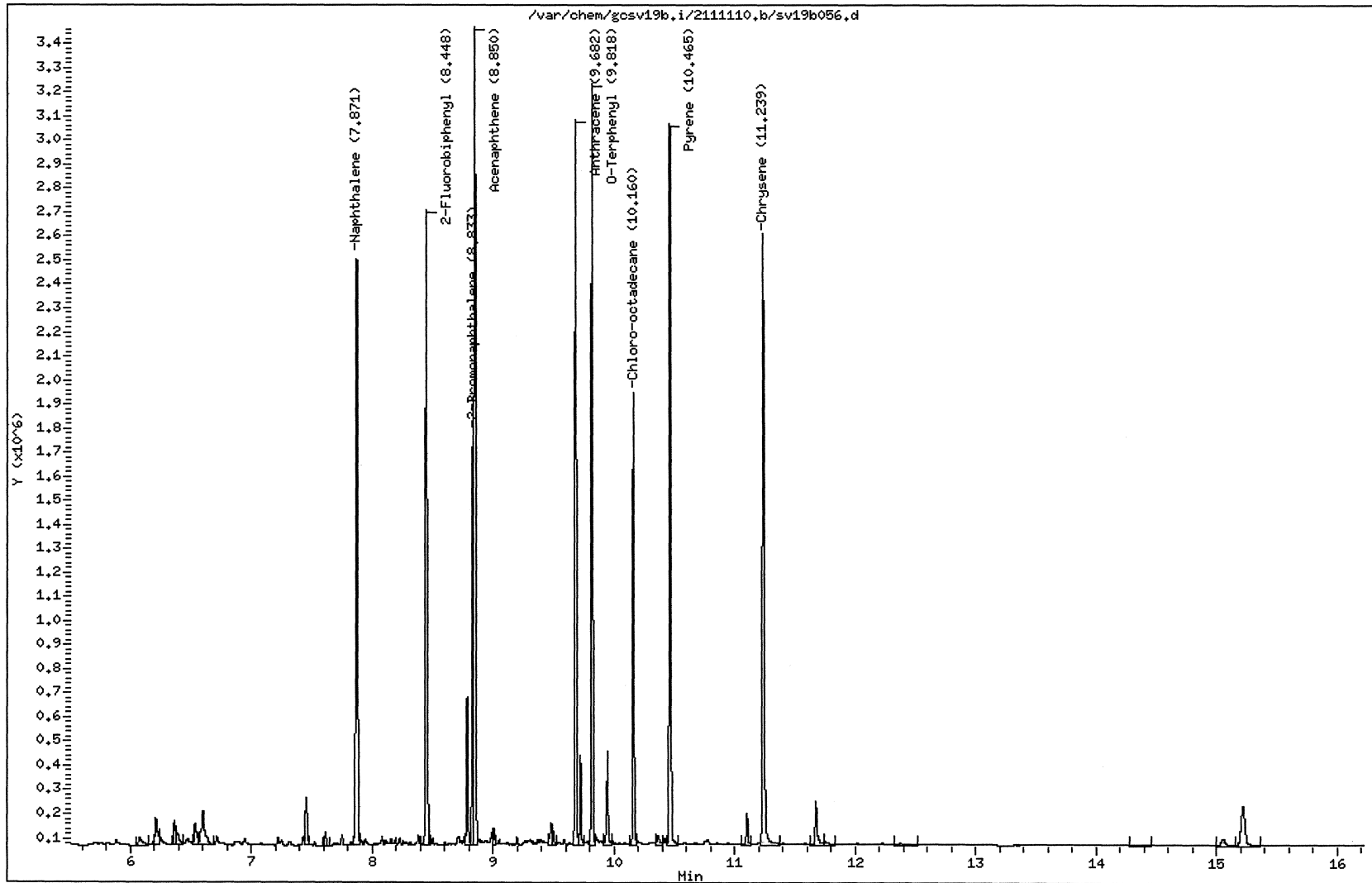
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/gosv19b.i/2111110.b/sv19b056.d
Date : 10-NOV-2011 16:03
Client ID: 1 LCS
Sample Info: 1004105*1 LCS
Volume Injected (uL): 1.0
Column phase: DB-5MS-30M

Page 1

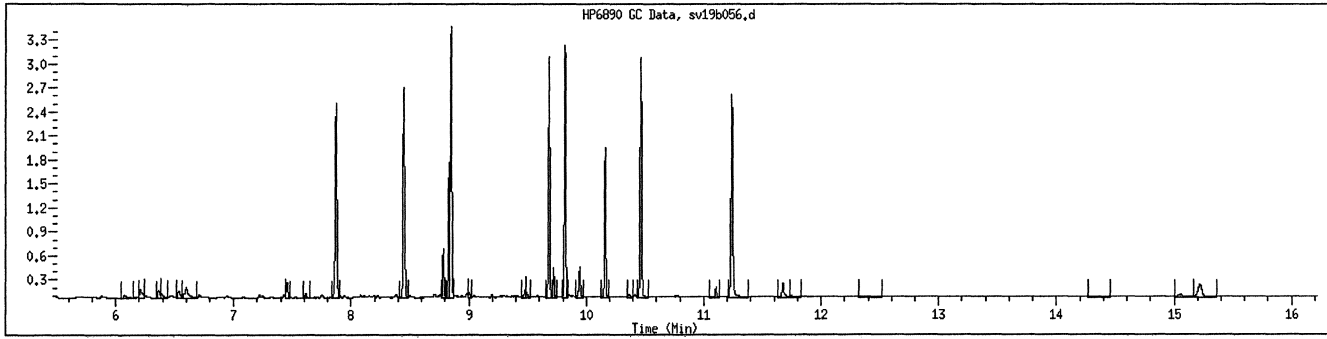
Instrument: gosv19b.i
Operator: smh
Column diameter: 0.25



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MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1004105 SampleType : LCS
Injection Date: 11/10/2011 16:03 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1004105*1 LCS
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/AROEPMass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111110.b/sv19b057.d
 Lab Smp Id: 1004105 Client Smp ID: 1 LCS
 Inj Date : 10-NOV-2011 16:27
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1004105*1 LCS
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
 Meth Date : 11-Nov-2011 15:21 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 57 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmasseph.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

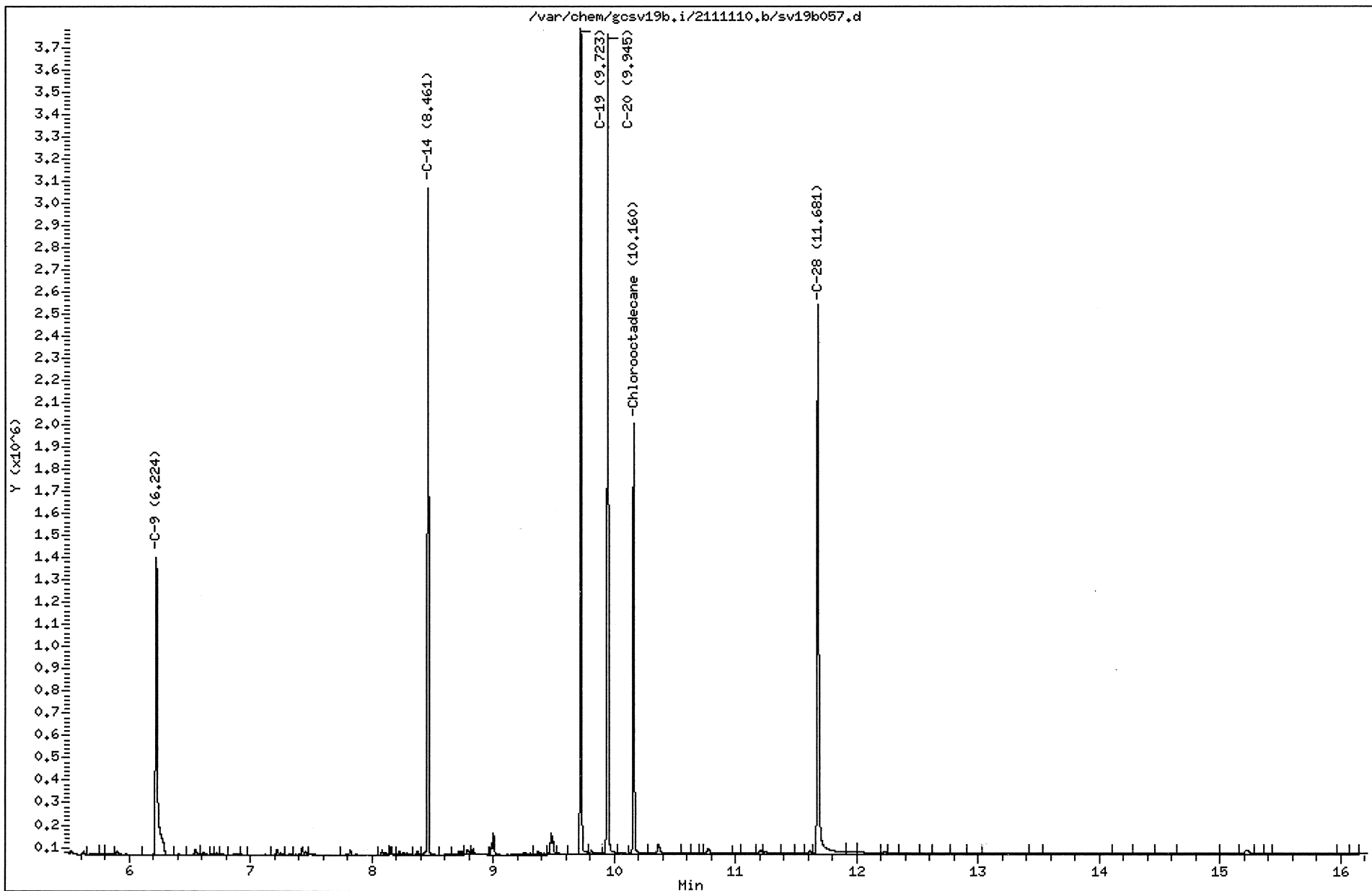
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 C-9	6.224	6.232	-0.008	30157800	11.0901	22.2
6 C-14	8.461	8.470	-0.009	42709583	14.8393	29.7
M 11 Alip C9-C18				72867383	25.9294	51.9
12 C-19	9.723	9.773	-0.050	51247556	16.9849	34.0
13 C-20	9.945	9.956	-0.011	52736163	17.3172	34.6
\$ 15 Chlorooctadecane	10.160	10.215	-0.055	27978107	10.2125	20.4
22 C-28	11.681	11.721	-0.040	50693086	16.3738	32.7 (H)
M 24 Alip C19-C36				154676805	50.6759	101

QC Flag Legend

H -- Operator selected an alternate compound hit.

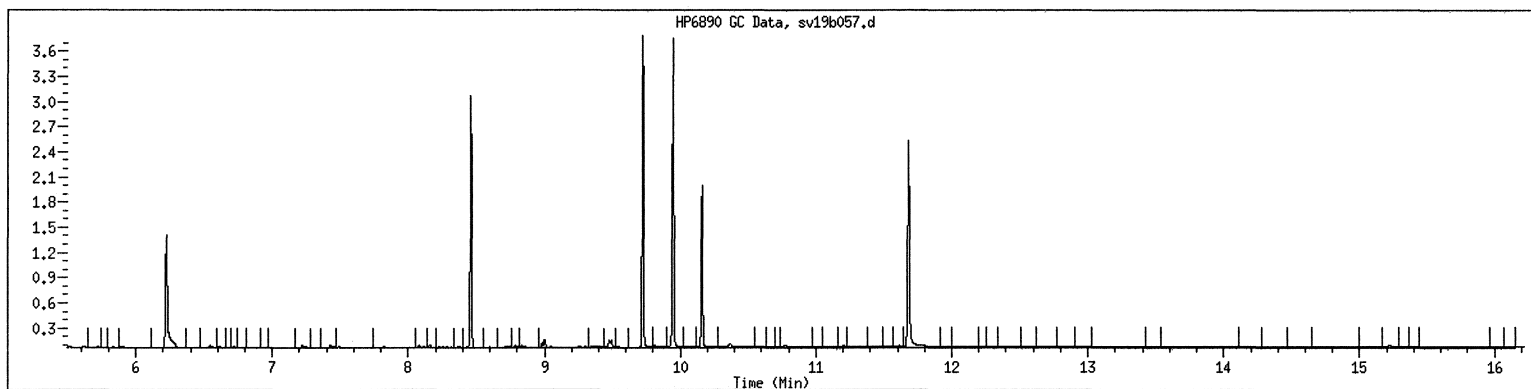
Data File: /var/chem/gcsv19b.i/2111110.b/sv19b057.d
Date : 10-NOV-2011 16:27
Client ID: 1 LCS
Sample Info: 1004105*1 LCS
Volume Injected (uL): 1.0
Column phase: DB-5MS-30M

Instrument: gcsv19b.i
Operator: smh
Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1004105 SampleType : LCS
Injection Date: 11/10/2011 16:27 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1004105*1 LCS
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

1D
ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL Sample ID: LCSD1004106
 Lab Code: LA024 Case No.: _____ Contract: _____
 Matrix: Water SAS No.: _____ SDG No.: 211110421
 Sample wt/vol: 1000 Units: mL Lab Sample ID: 1004106
 Level: (low/med) LOW Date Collected: _____ Time: _____
 % Moisture: _____ decanted: (Y/N) _____ Date Received: _____
 GC Column: DB-5MS-30M ID: .25 (mm) Date Extracted: 11/08/11
 Concentrated Extract Volume: 2000 (µL) Date Analyzed: 11/10/11 Time: 1651
 Soil Aliquot Volume: _____ (µL) Dilution Factor: 1 Analyst: SMH
 Injection Volume: 1 (µL) Prep Method: MASS EPH
 GPC Cleanup: (Y/N) N pH: _____ Analytical Method: MASSEPH
 Prep Batch: 468721 Analytical Batch: 469140 Sulfur Cleanup: (Y/N) N Instrument ID: GCS19B
 CONCENTRATION UNITS: ug/L Lab File ID: 2111110/sv19b058

CAS NO.	COMPOUND	RESULT	Q	MDL	LOD	LOQ
GCSV-02-22	C11-C22 Aromatics	191		42.1	42.1	100
GCSV-02-23	C9-C18 Aliphatic Hydrocarbons	52.8	J	21.8	21.8	100
GCSV-02-24	C19-C36 Aliphatic Hydrocarbons	94.2	J	31.3	60.0	100

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111110.b/sv19b058.d
 Lab Smp Id: 1004106 Client Smp ID: 1 LCSD
 Inj Date : 10-NOV-2011 16:51
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1004106*1 LCSD
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111110.b/AROEPMass.m
 Meth Date : 11-Nov-2011 15:43 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 13:18 Cal File: sv19b053s.d
 Als bottle: 58 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.50
 Processing Host: org.gcal.com

Concentration Formula: Amt * DF * Uf * Vt / (Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable Local Compound Variable

CONCENTRATIONS
 ON-COLUMN FINAL
 (UG/ML) (ug/L)

Compounds	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (UG/ML)	FINAL (ug/L)
1 Naphthalene	7.871	7.880	-0.009	49288016	17.3418	34.7
\$ 3 2-Fluorobiphenyl	8.448	8.454	-0.006	48539862	19.7518	39.5
\$ 5 2-Bromonaphthalene	8.833	8.838	-0.005	27183500	17.3278	34.7
6 Acenaphthene	8.851	8.858	-0.007	61175611	21.0214	42.0
9 Anthracene	9.683	9.688	-0.005	51333879	19.3421	38.7
\$ 10 O-Terphenyl	9.820	9.822	-0.002	49367854	16.7417	33.5
\$ 11 Chloro-octadecane	10.163	10.158	0.005	32943730	12.0255	24.1
13 Pyrene	10.469	10.467	0.002	53212368	18.6352	37.3
15 Chrysene	11.245	11.250	-0.005	52943561	19.2650	38.5
M 22 Arom C11-C22				267953435	95.6055	191
M 113 Total Surrogate Area				158034946		(a)

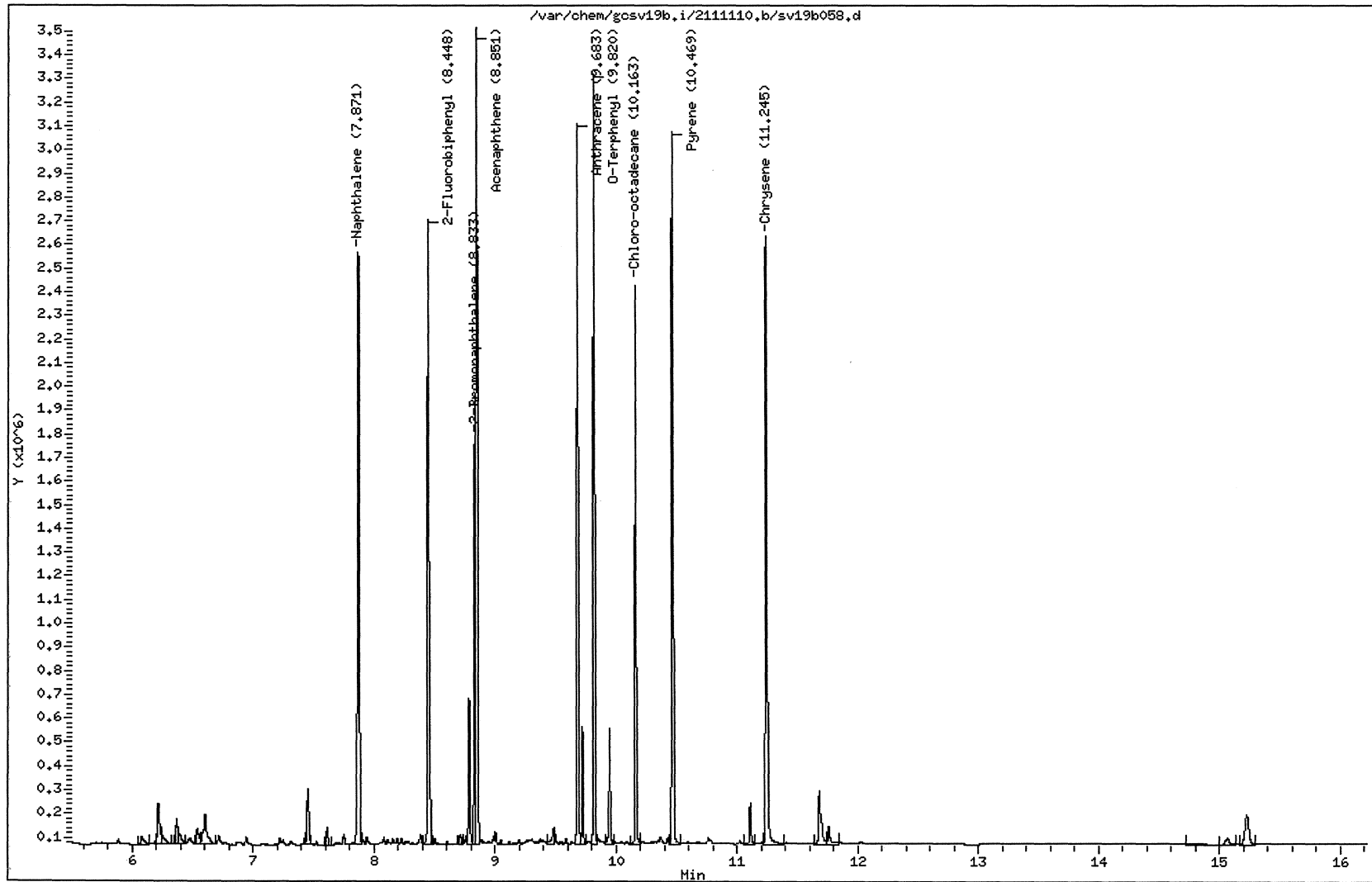
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /var/chem/gosv19b.i/2111110.b/sv19b058.d
Date : 10-NOV-2011 16:51
Client ID: 1 LCSD
Sample Info: 1004106*1 LCSD
Volume Injected (uL): 1.0
Column phase: DB-5MS-30M

Page 1

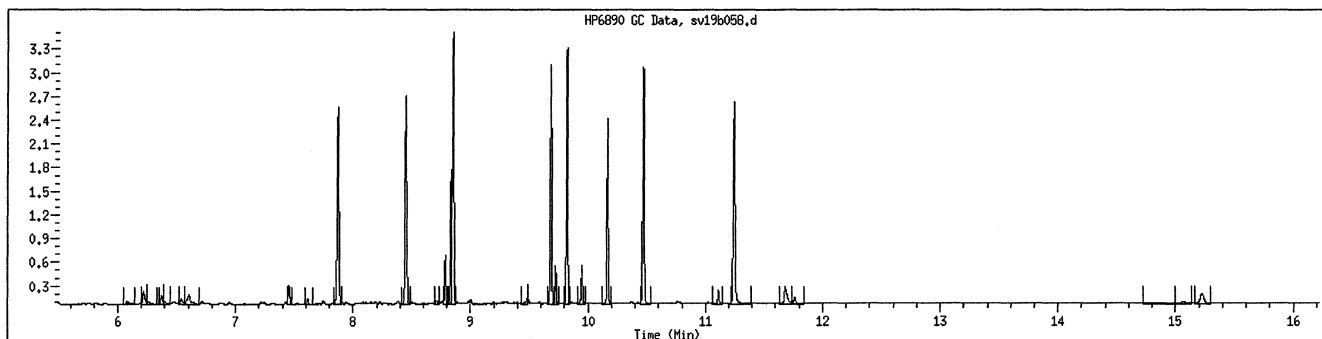
Instrument: gosv19b.i
Operator: smh
Column diameter: 0.25



211110421 261

MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1004106 SampleType : LCS
Injection Date: 11/10/2011 16:51 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1004106*1 LCSD
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/AROEPhmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: all



NO MANUAL INTEGRATIONS

GCAL, Inc.

Data file : /var/chem/gcsv19b.i/2111110.b/sv19b059.d
 Lab Smp Id: 1004106 Client Smp ID: 1 LCSD
 Inj Date : 10-NOV-2011 17:15
 Operator : smh Inst ID: gcsv19b.i
 Smp Info : 1004106*1 LCSD
 Misc Info :
 Comment :
 Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
 Meth Date : 11-Nov-2011 15:05 dlb Quant Type: ESTD
 Cal Date : 03-NOV-2011 14:30 Cal File: sv19b056.d
 Als bottle: 59 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP Genie Compound Sublist: ALmaseph.sub
 Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	1000.00000	Volume of sample extracted (mL)
Vt	2000.00000	Volume of final extract (uL)
Vi	1.00000	Volume injected (uL)
Uf	1.00000	Correction factor

Cpnd Variable

Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (UG/ML)	FINAL (ug/L)
1 C-9	6.224	6.232	-0.008	31225286	11.4827	23.0
6 C-14	8.461	8.470	-0.009	42882291	14.8993	29.8
M 11 Alip C9-C18				74107577	26.3820	52.8
12 C-19	9.724	9.773	-0.049	49945153	16.5533	33.1
13 C-20	9.947	9.956	-0.009	50271463	16.5078	33.0
\$ 15 Chlorooctadecane	10.161	10.215	-0.054	21612655	7.88904	15.8(R)
22 C-28	11.682	11.721	-0.039	43492976	14.0482	28.1
M 24 Alip C19-C36				143709592	47.1092	94.2

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Date : 10-NOV-2011 17:15

Client ID: 1 LCSD

Instrument: gosv19b.i

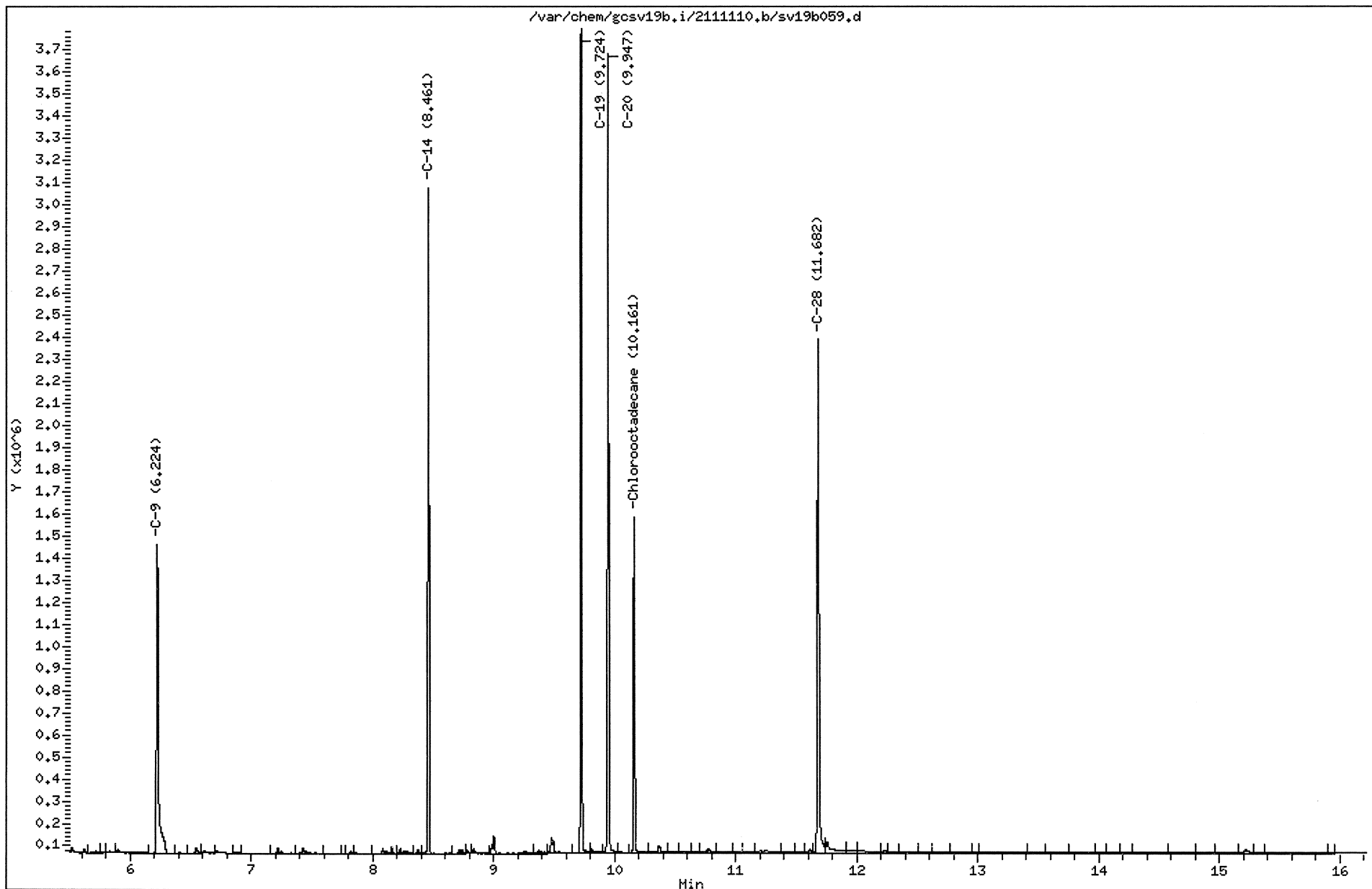
Sample Info: 1004106*1 LCSD

Volume Injected (uL): 1.0

Operator: smh

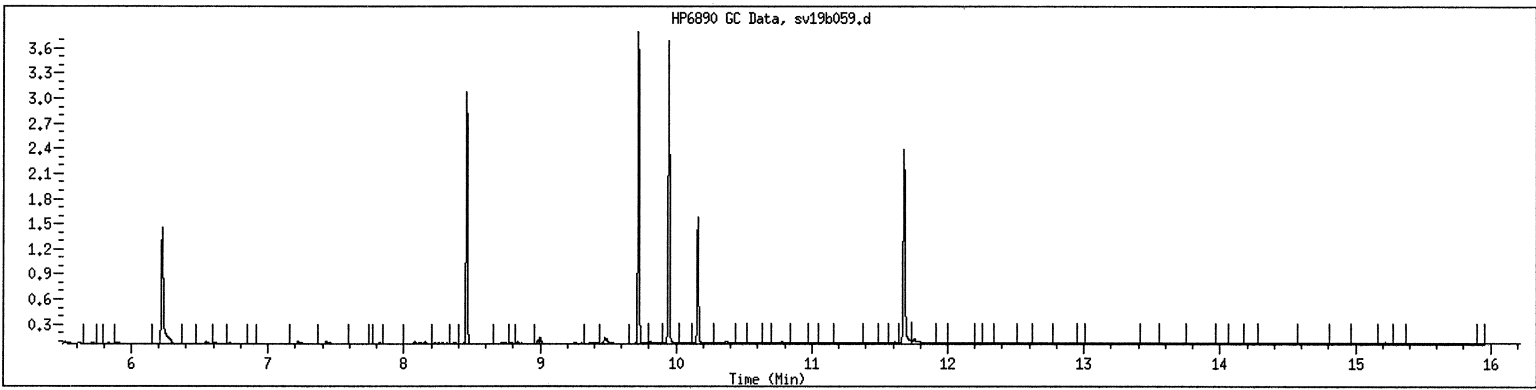
Column phase: DB-5MS-30M

Column diameter: 0.25



MANUAL INTEGRATION GRAPHIC REPORT

Lab ID : 1004106 SampleType : LCS
Injection Date: 11/10/2011 17:15 Instrument : gcsv19b.i
Operator : smh
Sample Info : 1004106*1 LCSD
Misc Info :
Method : /var/chem/gcsv19b.i/2111110.b/ALPHEPHmass.m
Dilution : 1.00
Matrix : WATER
Integrator : HP Genie Compound Sublist: ALmasseph



NO MANUAL INTEGRATIONS

LABORATORY CHRONICLE: GCSV DEPARTMENT

Date: 11/29/2011

Instrument: gcsv19b.i

Method File: /var/chem/gcsv19b.i/2111110.b/AROEPhmass.m

Batch: /var/chem/gcsv19b.i/2111110.b

Column-Detector: DB-5MS-30M

Sample ID	Standard ID	DataFile	Wgt/Vol	Injection Time	Dil	Anal	ALS	Comments
dcm lot #1118		sv19b051.d	1000.00 ml	10-NOV-2011 13:49	1.000	smh	51	all
1400		sv19b052.d	1000.00 ml	10-NOV-2011 14:13	1.000	smh	52	cal
1400		sv19b053.d	1000.00 ml	10-NOV-2011 14:37	1.000	smh	53	ALmasseph
1004104		sv19b054.d	1000.00 ml	10-NOV-2011 15:15	1.000	smh	54	all
1004104		sv19b055.d	1000.00 ml	10-NOV-2011 15:39	1.000	smh	55	ALmasseph
1004105		sv19b056.d	1000.00 ml	10-NOV-2011 16:03	1.000	smh	56	all
1004105		sv19b057.d	1000.00 ml	10-NOV-2011 16:27	1.000	smh	57	ALmasseph
1004106		sv19b058.d	1000.00 ml	10-NOV-2011 16:51	1.000	smh	58	all
1004106		sv19b059.d	1000.00 ml	10-NOV-2011 17:15	1.000	smh	59	ALmasseph
21110312406		sv19b060.d	990.00 ml	10-NOV-2011 17:40	1.000	smh	60	all
21110312406		sv19b061.d	990.00 ml	10-NOV-2011 18:04	1.000	smh	61	ALmasseph
21110312408		sv19b062.d	990.00 ml	10-NOV-2011 18:28	1.000	smh	62	all
21110312408		sv19b063.d	990.00 ml	10-NOV-2011 18:52	1.000	smh	63	ALmasseph
21110312408		sv19b063s.d	990.00 ml	10-NOV-2011 18:52	1.000	smh	63	Chloro
1400		sv19b064.d	1000.00 ml	10-NOV-2011 19:16	1.000	smh	64	cal
1400		sv19b065.d	1000.00 ml	10-NOV-2011 19:40	1.000	smh	65	ALmasseph
1400		sv19b066.d	1000.00 ml	10-NOV-2011 20:04	1.000	smh	64	cal
1400		sv19b067.d	1000.00 ml	10-NOV-2011 20:28	1.000	smh	65	ALmasseph
21110312409		sv19b068.d	990.00 ml	10-NOV-2011 20:52	1.000	smh	68	all
21110312409		sv19b069.d	990.00 ml	10-NOV-2011 21:16	1.000	smh	69	ALmasseph
21110312409		sv19b069s.d	990.00 ml	10-NOV-2011 21:16	1.000	smh	69	Chloro
21110312410		sv19b070.d	990.00 ml	10-NOV-2011 21:40	1.000	smh	70	all
21110312410		sv19b071.d	990.00 ml	10-NOV-2011 22:04	1.000	smh	71	ALmasseph
21110312410		sv19b071s.d	990.00 ml	10-NOV-2011 22:04	1.000	smh	71	Chloro
21111042101		sv19b072.d	990.00 ml	10-NOV-2011 22:29	1.000	smh	72	all
21111042101		sv19b072s.d	990.00 ml	10-NOV-2011 22:29	1.000	smh	72	surr
21111042101		sv19b073.d	990.00 ml	10-NOV-2011 22:53	1.000	smh	73	ALmasseph
21111031701		sv19b074.d	1000.00 ml	10-NOV-2011 23:17	1.000	smh	74	all
21111031701		sv19b075.d	1000.00 ml	10-NOV-2011 23:41	1.000	smh	75	ALmasseph
21111031702		sv19b076.d	1000.00 ml	11-NOV-2011 00:05	1.000	smh	76	all
21111031702		sv19b077.d	1000.00 ml	11-NOV-2011 00:29	1.000	smh	77	ALmasseph
1400		sv19b078.d	1000.00 ml	11-NOV-2011 00:54	1.000	smh	78	cal
1400		sv19b079.d	1000.00 ml	11-NOV-2011 01:18	1.000	smh	79	ALmasseph
1400		sv19b080.d	1000.00 ml	11-NOV-2011 01:42	1.000	smh	78	cal
1400		sv19b081.d	1000.00 ml	11-NOV-2011 02:07	1.000	smh	79	ALmasseph

APPL, Inc.

ARF: 66186

PO: 00-66186

SENDING LABORATORY:

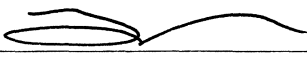

APPL Labs
 908 North Temperance Ave.
 Clovis, CA 93611
 Phone: (559) 275-2175
 Fax: (559) 275-4422
 Project Manager: Cynthia Clark (cclark@applinc.com) *rp*

RECEIVING LABORATORY:

Gulf Coast Analytical
 7979 GSRI Rd.
 Baton Rouge, LA 70820
 Phone: (225) 769-4900x
 Fax:
 DOD Expiration Date:

Comments: Level IV report - DoD format (LOQ/LOD/DL), ADR (A1/A3 8.3a unchecked) EDD and Excel EDD

APPL ID	Sample ID	LOC ID	Matrix	Collected	Analysis	Price
1. AY50005	ES057		Water	11/02/11 11:05	MADEP-EPH	\$125.00
			Water	11/02/11 11:05	MADEP-VPH	\$75.00

	<i>11/3/11</i>	<i>1335</i>	<i>FedEx</i>			
Released By	Date	Time	Received By	Date	Time	
<i>FedEx</i>	<i>4796 7085 3529</i>	<i>11/4/11</i>		<i>11/4/11</i>	<i>840</i>	
Released By	Date	Time	Received By	Date	Time	

To ensure timely payment, please include the PO number on your invoice

5.9



SAMPLE RECEIVING CHECKLIST

Workorder: 211110421

Client: 9000 - General Accounts

Profile: 227122 - Appl. Inc.

Line Item: 1 - Waters

Received by: Saucier, Charlotte

Received Date/Time: 11/4/2011 8:40:00 AM

Samples Received via: FEDEX

Number of Coolers Received: 1

Cooler tracking numbers(s): 4796 7085 3529

Cooler temperature(s): 5.9

Were all coolers received at a temperature of 0 - 6° C? Yes No N/A

Were all custody seals intact? Yes No N/A

Were all samples received in proper containers? Yes No N/A

Were all samples properly preserved? Yes No N/A

Was preservative added to any container at the lab? Yes No N/A

Were all containers received in good condition? Yes No N/A

Were all VOA vials received with no head space? Yes No N/A

Do all sample labels match the Chain of Custody? Yes No N/A

Was the client notified about any discrepancies? Yes No N/A

Notes/Comments: _____
